



# **REGIONAL DISTRICT of Fraser-Fort George**

**INVITATION TO TENDER PS-24-07**

**PAVING PUBLIC SAFETY OPERATIONS BUILDING (PSOB)  
ACCESS ROUTE**

CLOSING DATE:  
November 14, 2024

TIME:  
2:00pm PST

MANDATORY SITE MEETING:  
October 18, 2024  
1:00pm PST

INQUIRES:  
Bonnie Seitz  
[bseitz@rdffg.bc.ca](mailto:bseitz@rdffg.bc.ca)

NOTE:  
Late submissions will not be considered

Regional District of Fraser-Fort George  
155 George Street, Prince George BC V2L 1P8  
Telephone 250-960-4400 / Toll Free 1-800-667-1959 / Fax 250-562-8676  
<http://www.rdffg.ca>

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*Tenderer's Initials*

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**INVITATION TO TENDER**

Owner: REGIONAL DISTRICT OF FRASER-FORT GEORGE (RDFFG)

Contract: PAVING PUBLIC SAFETY OPERATIONS BUILDING ACCESS ROUTE

Reference No. TENDER # PS-24-07

The Owner invites tenders for: Reconstruction of the pavement surface for the access lane to the Public Safety Operations Building and install storm drainage system.

Digital (pdf) copies of  
the *Contract Documents* are  
available for no  
charge at:

BC Bid ([www.bcbid.gov.bc.ca](http://www.bcbid.gov.bc.ca)) or at RDFFG website ([www.rdffg.ca](http://www.rdffg.ca))

Tenders are  
scheduled to close:

**Tender Closing**  
**Time:** 02:00 pm PST

**Tender Closing**  
**Date:** November 14, 2024

**Address:** RDFFG General Manager of Financial Services  
155 George Street, Prince George, BC,  
V2L 1P8  
Or Email at [purchasing@rdffg.bc.ca](mailto:purchasing@rdffg.bc.ca)

**NAME OF OWNER'S  
REPRESENTATIVE**

Bonnie Seitz, Project Manager

Contact via email

[bseitz@rdffg.bc.ca](mailto:bseitz@rdffg.bc.ca)

Tenderer's Initials \_\_\_\_\_



(TO BE READ WITH "INSTRUCTIONS TO TENDERERS - PART II"  
CONTAINED IN THE EDITION OF THE PUBLICATION  
"MASTER MUNICIPAL CONSTRUCTION DOCUMENTS" SPECIFIED IN ARTICLE 2.2 BELOW)

*Owner:* REGIONAL DISTRICT OF FRASER-FORT GEORGE (RDFFG)

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*Contract:* PAVING PUBLIC SAFETY OPERATIONS BUILDING ACCESS ROUTE

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*Reference No.* TENDER # PS-24-07

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**1.0 Introduction**

These Instructions apply to and govern the preparation of tenders for this *Contract*. The *Contract* is generally for the following work:

Reconstruction of the pavement surface for the access lane to the Public Safety Operations Building and install storm drainage system

Direct all inquiries regarding the *Contract*, to:

*Bonnie Seitz, Project Manager*

**Address:** Regional District of Fraser-Fort George  
155 George Street  
Prince George, BC, V2L 1P8

**Email:** bseitz@rdffg.bc.ca

**2.0 Tender Documents**

2.1 The tender documents which a Tenderer should review to prepare a tender consist of all the *Contract Documents* listed in Schedule 1 entitled "Schedule of Contract Documents". Schedule 1 is attached to the Agreement which is included as part of the tender package. The *Contract Documents* include the drawings listed in Schedule 2 to the Agreement, entitled "List of *Contract Drawings*".

*Tenderer's Initials*

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**2.0 Tender Documents (cont'd)**

- 2.2 A portion of the *Contract Documents* are included by reference. Copies of these documents have not been included with the tender package. These documents are the Instructions to Tenderers - Part II, General Conditions, and Specifications. They are those contained in the publication entitled "Master Municipal Construction Documents - General Conditions, Instruction to Tenderers – Part II, and Standard Specifications". Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.
- 2.3 Any additional information made available to Tenderers prior to the *Tender Closing Time* by the *Owner* or representative of the *Owner*, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the *Contract Documents*. Such additional information is made available only for the assistance of Tenderers who must make their own judgment about its reliability, accuracy, completeness, and relevance to the *Contract*, and neither the *Owner* nor any representative of the *Owner* gives any guarantee or representation that the additional information is reliable, accurate, complete, or relevant.

**3.0 Submission of Tenders**

- 3.1 Tenders will be accepted up to 02:00 pm, PST, November 14, 2024. All tender submissions and accompanying documents must be received physically by the General Manager of Financial Services of the RDFFG, at 155 George Street, Prince George, BC **OR** electronically at [purchasing@rdffg.bc.ca](mailto:purchasing@rdffg.bc.ca)

**3.2 Requested files:**

Organize your Tender submission into the following (the file type for electronical submission must be pdf):

- Form of Tender including Appendices, 1 to 9.
- Financial Security, which should be in the form of a digitally certified Bid Bond. If a scan of a paper version of a bid bond is submitted, the original hard copy of the bid bond must be delivered to the district office at 155 George Street Prince George, BC, within 5 Days of the tender closing date.

If submitting via email, all emailed documents must be in PDF format and should be in one combined file. Tenderers should ensure that the files should not collectively exceed 35 MB. Zip the files to reduce the size or email separately, if needed. Submitting the files via Drop Box, FTP, or similar programs, is not acceptable.

If submitting a physical copy, include an electronic version of the documents on a USB drive. The electronic copy must be in PDF format and adhere to the same requirements as the email submission, except for the file size limitation.

The Regional District does not assume any risk or responsibility or liability, including in contract or tort (including negligence), whatsoever to any Tenderer.

*Tenderer's Initials*

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**3.0 Submission of  
Tenders  
(cont'd)**

- 1) for ensuring that any electronic email system being operated by or for the Regional District is in good working order, able to receive transmissions, or not engaged in receiving other transmissions such that a Tenderer's electronic transmission, including the transmission of an electronic copy of its Tender, cannot be received;
- 2) for errors, problems or technical difficulties with respect to a Tenderer's electronic transmission, including the transmission of an electronic copy of its Tender;
- 3) that a Tenderer's electronic transmission, including the transmission of an electronic copy of its Tender, is received by the RDFFG in its entirety or within any time limit specified by this Tender.

**4.0 Additional  
Instructions to  
Tenderers**

- 4.1 Upon receipt of this Invitation to Tender, a potential Tenderer should complete and sign Appendix 7 "Acknowledgement Letter" and email the signed Acknowledgement Letter to Bonnie Seitz, Project Manager, at [bseitz@rdffg.bc.ca](mailto:bseitz@rdffg.bc.ca)

A Tenderer who signs and returns the Acknowledgement Letter is not obligated to submit a Tender. Any Tenderer who does not submit the Acknowledgement Letter will not be sent any Addenda, or answers to questions and may be disqualified.

- 4.2 IT 12 Amendment of Tenders: Clause 12.1 replace "delivered by hand, mail or fax" with "delivered by hand, mail or email". Delete Clause 12.5
- 4.3 **Questions:** All questions should be received before 4:00 pm PST on October 24, 2024. All questions received shall be answered before October 31, 2024.
- 4.4 **Information Meeting:** A mandatory site meeting will be held at 2259 Quinn Street South, Prince George BC at 01:00 pm PST on October 18, 2024.

The Project Manager or delegate will provide an overview of the contract expectations and be available for questions pertaining to this tender. The purpose of the site meeting is for Tenderers to satisfy themselves as to the nature of the work in general, to clarify their understanding of the scope of work, to view the sites, to determine specifications, and to have the opportunity to ask questions regarding the project and any other circumstances which may influence their Tender submission.

Oral questions will be allowed at the Tenderers' meeting. However, questions of a complex nature, or questions where the Tenderer requires anonymity, should be forwarded in writing, prior to the meeting, to the Project Manager.

The Regional District will not, under any circumstances, make accommodations for rescheduling, holding any additional site meetings, or providing individuals access to the sites

- 4.5 **Business Licence:** The successful Contractor must possess a valid Business Licence in B.C. and will be required to provide evidence of it.

*Tenderer's Initials*

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**4.0 Additional  
Instructions to  
Tenderers  
(cont'd)**

**4.6 Conflict of Interest:** The Tenderer warrants that they are not employed by the Owner, nor are they an employee of any of the Owner's arms-length departments, such as the Firefighter Department or Emergency Services Department. Furthermore, the Tenderer confirms that they are not an immediate relative of any such employee if the goods or services to be supplied under this Tender are intended for the department in which that employee works.

If the Tenderer is a company, the Tenderer warrants that none of its officers, directors, or employees with authority to bind the company are employees of the Owner or the Owner's arms-length Departments or immediate relatives of employees of the Owner, if the goods or services to be supplied under this Tender are intended to be supplied to the department in which such employee works.

In this section "Immediate Relative" means a spouse, parent, child, brother, sister, brother-in-law, or sister-in-law of a municipal employee.

When submitting a Tender, the Tenderer must complete, sign and include with their Tender Appendix 6 "Conflict of Interest Disclosure Statement."

**4.7 Solicitation:** If any director, officer, employee, agent or other representative of a Tenderer makes any representation or solicitation to any directors or board members, officer or employee of the Owner with respect to the Tender, whether before or after the submission of the tender, the Owner shall be entitled to reject or not accept the Tender.

**4.8 Freedom of Information ("FOI"):** All Bid Forms become the property of the Owner upon submission and will not be returned to the bidders. Bidders must be aware that the Owner is a public body subject to the provisions of the Freedom of Information and Protection of Privacy Act. Bid Forms will be held in confidence by the Owner, subject to the provisions of the Freedom of Information and Protection of Privacy Act, or unless otherwise required by law.

**4.9 The Owner may, in its absolute discretion reject a Tender** if the Tenderers past performance of similar work for the Owner has resulted in outstanding or ongoing legal liability or legal claims against the Owner. The Owner may take into regard, in exercising its discretion, previous experience of the Tenderer whether listed in the Form of Tender or not.

**4.10 Superintendent:** The Owner reserves the right to object to the Superintendent listed in the tender. If the Owner objects to the Superintendent, then the Owner will permit a tenderer to, within 5 days, propose a substitute Superintendent acceptable to the Owner provided that there is no resulting adjustment in the Tender Price or the completion date set out in Paragraph 2.2 of the Form of Tender. A tenderer will not be required to make such a substitution and, if the Owner objects to a listed Superintendent, the tenderer may, rather than propose a substitute Superintendent, consider its tender rejected by

*Tenderer's Initials*

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the Owner and by written notice withdraw its tender. The Owner shall, in that event, return the tenderer's bid security.

**4.0 Additional  
Instructions to  
Tenderers  
(cont'd)**

**4.13 The contract duration** shall be from the date of Notice to Proceed to the date of substantial completion.

**4.15 Attached Excel File of Form of Tender - Appendix 1, For Use in  
Preparing Tender Bid.**

The owner has elected to provide an excel table for the prospective bidder's use in completing Appendix 1 to the form of tender. Specific columns have been locked for editing, to protect all parties. This file shall be returned as part of the bid package, converted to .PDF format as is outlined above.

END

*Tenderer's Initials*

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**APPENDIX 1 – SCHEDULE OF QUANTITIES AND PRICES**

**FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT - TO BE USED ONLY WITH THE GENERAL CONDITIONS  
AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.**

*Owner: REGIONAL DISTRICT OF FRASER-FORT GEORGE*

*Contract: PAVING PUBLIC SAFETY OPERATIONS BUILDING ACCESS  
ROUTE*

*Reference No. TENDER # PS-24-07*

**To Owner:**

**WE, THE UNDERSIGNED:** 1.1 have received and carefully reviewed all of the *Contract Documents*, including the Instructions to Tenderers, the specified edition of the "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings" and the following Addenda:

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1.2 have full knowledge of the *Place of the Work*, and the *Work* required; and

1.3 have complied with the Instructions to Tenderers; and

**ACCORDINGLY WE  
HEREBY OFFER:** 2.1 to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*; and

2.2 to complete the *Work* within 45 calendar days from the start of construction and achieve Substantial Performance of the *Work* no later than Sep 30, 2025.

2.3 to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purposes of tender comparison, our offer is to complete the *Work* for the "*Tender Price*" as set out on Appendix 1 of this Form of Tender. Our *Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices* and excludes GST.

*Tenderer's Initials*

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**WE CONFIRM:** 3.1 that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.

4.1 that the following appendices are attached to and form a part of this tender:

4.1.1 the appendices as required by paragraph 5.3 of the Instructions to Tenderers – Part II; and

4.1.2 the Bid Security as required by paragraph 5.2 of the Instructions to Tenderers – Part II.

**WE AGREE:** 5.1 that this tender will be irrevocable and open for acceptance by the Owner for a period of 90 calendar days from the day following the Tender Closing Date and Time, even if the tender of another Tenderer is accepted by the Owner. If within this period, the Owner delivers a written notice (“Notice of Award”) by which the Owner accepts our tender we will:

5.1.1 within 15 Days of receipt of the written Notice of Award deliver to the Owner:

a) a Performance Bond in the amount of 10% of the Contract Price, covering the performance of the Work including the Contractor’s obligations during the Maintenance Period, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the Owner.

b) a Baseline Construction Schedule, as provided by GC 4.6.1;

c) a copy of the WorkSafe BC Notice of Project;

d) a “clearance letter” indicating that the Tenderer is in WorkSafe BC compliance;

e) a copy of the insurance policies as specified in GC 24 indicating that all such insurance coverage is in place and;

5.1.2 within 2 Days of receipt of written “Notice to Proceed”, or such longer time as may be otherwise specified in the Notice to Proceed, commence the Work; and

5.1.3 sign the Contract Documents as required by GC 2.1.2.

**WE AGREE:** 6.1 that, if we receive written Notice of Award of this Contract and, contrary to paragraph 5 of this Form of Tender, we:

6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or

*Tenderer’s Initials*

\_\_\_\_\_



**WE AGREE:**  
(cont'd)

6.1.2 fail or refuse to commence the Work as required by the Notice to Proceed,

then such failure or refusal will be deemed to be a refusal by us to enter into the Contract and the Owner may, on written notice to us, award the Contract to another party. We further agree that, as full compensation on account of damages suffered by the Owner because of such failure or refusal, the Bid Security shall be forfeited to the Owner, in an amount equal to the lesser of:

6.1.3 the face value of the Bid Security; and

6.1.4 the amount by which our Tender Price is less than the amount for which the Owner contracts with another party to perform the Work.

**OUR ADDRESS IS  
AS FOLLOWS:**

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Phone:

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Email:

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Attention:

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This Tender is executed this

\_\_\_\_\_ day of \_\_\_\_\_, 2024

Contractor:

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(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

---

(AUTHORIZED SIGNATORY)

---

(AUTHORIZED SIGNATORY)

END

*Tenderer's Initials*

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**FORM OF TENDER - APPENDIX 1**

**SCHEDULE OF QUANTITIES AND PRICES**

(See paragraph 5.3.1 of the Instructions to Tenderers - Part II)

(All *Prices* and *Quotations* including the *Contract Price* shall include all *Taxes*, but shall not include *GST*.)

Any work called for in these Contract Documents, shown on the plans, or which is necessary for the completion of the Work called for in these Contract Documents and which is not specifically listed as a separate payment item in this Appendix shall be deemed incidental to the performance of the Work and to the general purpose of the Contract; no separate payment will be made on account of any such Work, but the costs of any such incidental Work shall be included in the Unit and Lump Sum Prices.

**Summary**

Division 01: General	\$ -
Division 03: Concrete	\$ -
Division 31: Earthworks	\$ -
Division 32: Roads and Site Improvements	\$ -
Division 33: Utilities	\$ -
<b>TOTAL TENDER PRICE</b>	<b>\$ -</b>
<b>GST (5%)</b>	<b>\$ -</b>
<b>TOTAL TENDER PRICE plus GST</b>	<b>\$ -</b>

DIV 01		GENERAL REQUIREMENTS				
<i>Item No.</i>	<i>Section</i>	<i>Specification Title</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Amount</i>
	01 10 00 SS	Supplementary Specification 01 10 00 SS				
1.01	1.2.3	Sign electrical conduit, wiring, & connections	Lump Sum	1		\$ -
1.02	1.3.2	Telus Security	Lump Sum	1	\$ 20,000.00	\$ 20,000.00
	01 52 01 S	Temporary Structures				
1.03	1.6.2 SS	Mobilization & Demobilization	Lump Sum	1		\$ -
			Sub-Total		\$ -	

DIV 03		CONCRETE				
<i>Item No.</i>	<i>Section</i>	<i>Specification Title</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Amount</i>
	03 40 01	Precast Concrete				
2.01	1.4.4	Install Concrete Barrier	Each	2		\$ -
			Sub-Total		\$ -	

DIV 31		EARTHWORKS				
<i>Item No.</i>	<i>Section</i>	<i>Specification Title</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Amount</i>
	31 24 13	Roadway Excavation, Embankment and Compaction				
3.01	1.8.5 SS & 1.8.5.1 SS	Removal and disposal of Existing Pavement	Square Metres	765		\$ -
3.02	1.8.5 SS & 1.8.5.3 SS	Common Excavation	Cubic Metre	830		\$ -
			Sub-Total		\$ -	

DIV 32		ROADS AND SITE IMPROVEMENTS				
<i>Item No.</i>	<i>Section</i>	<i>Specification Title</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Amount</i>
	32 12 16	Hot-Mix Asphalt Concrete Paving				
4.01	1.5 & 1.5.1 SS	Asphalt Pavement - 75mm thickness.	Square Metres	1480		\$ -
	32 12 16.1	Grannular subbase				
4.02	1.4.3 SS	Supply, placement and compaction of granular subbase (300 mm depth)	Square Metres	1480		\$ -
	32 11 23	Grannular Base				
4.03	1.4.2 SS	Supply, placement and compaction of granular base (225 mm depth)	Square Metres	1480		\$ -
			Sub-Total		\$ -	

DIV 33		UTILITIES				
Item	Section	Specification Title	Unit	Quantity	Unit Price	Amount
No.						
	33 01 30.1	CCTV Inspection of Pipelines				
5.01	1.6.2 SS	CCTV Inspection of Pipelines	Lump Sum	1		\$ -
	33 40 01	Storm Sewers				
5.02	1.6.1, & 1.6.2. SS & 1.6.11 SS	Drainage Pipe PVC DR 35 – 200 mm	Lineal Metres	50		\$ -
	33 44 01	Manholes and Catchbasins				
5.03	1.5.1.1 SS & 1.5.7 SS	Recharge Chamber	Each	1		\$ -
5.04	1.5.2 SS	Supply and Install 600 mm dia. Catch Basin (standard 1.6m high chamber)	Each	1		\$ -
			Sub-Total		\$ -	



Indicate Schedule with bar chart with major item descriptions and time (use table below or attach separate bar chart with similar format).

## STAGING REQUIREMENTS:

[illegible]



**APPENDIX 3 – EXPERIENCE OF SUPERINTENDENT**  
**PAVING PUBLIC SAFETY OPERATIONS BUILDING ACCESS ROUTE**

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See paragraph 5.3.3 of the Instructions to Tenderers – Part II.

**Name:** \_\_\_\_\_

**Experience:** \_\_\_\_\_

**Dates:** \_\_\_\_\_

Project Name: \_\_\_\_\_

Responsibility: \_\_\_\_\_

References: \_\_\_\_\_

**Dates:** \_\_\_\_\_

Project Name: \_\_\_\_\_

Responsibility: \_\_\_\_\_

References: \_\_\_\_\_

**Dates:** \_\_\_\_\_

Project Name: \_\_\_\_\_

Responsibility: \_\_\_\_\_

References: \_\_\_\_\_

**Dates:** \_\_\_\_\_

Project Name: \_\_\_\_\_

Responsibility: \_\_\_\_\_

References: \_\_\_\_\_

*Tenderer's Initials* \_\_\_\_\_





**APPENDIX 4 – COMPARABLE WORK EXPERIENCE**  
**PAVING PUBLIC SAFETY OPERATIONS BUILDING ACCESS ROUTE**

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See paragraph 5.3.4 of the Instructions to Tenderers – Part II.

PROJECT	OWNER / CONTACT NAME PHONE and FAX	WORK DESCRIPTION	VALUE (\$)
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		
	Owner / Contract _____  Phone (    )                      Fax (    )		

*Tenderer's Initials* \_\_\_\_\_



**APPENDIX 5 - SUBCONTRACTORS**  
***PAVING PUBLIC SAFETY OPERATIONS BUILDING ACCESS ROUTE***

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(TITLE OF CONTRACT)

See paragraph 5.3.5 of the Instructions to Tenderers – Part II.

TENDER ITEM	TRADE	SUBCONTRACTOR NAME	PHONE NUMBER

*Tenderer's Initials*

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**APPENDIX 6 - CONFLICT OF INTEREST STATEMENT**

PROCUREMENT PROCESS  
PS-24-07 Paving PSOB Access Route

Tenderer Name: \_\_\_\_\_

The Tenderer, including its officers, employees, and any person or other entity working on behalf of or in conjunction with, the Tenderer on this Procurement Process:

- ☐ is free of any conflict of interest that could be perceived to improperly influence the outcome of this procurement process.
- ☐ has not, and will not, participate in any improper procurement practices that can provide the Tenderer with an unfair competitive advantage including obtaining and using insider type information to prepare a solicitation offer or participating in big rigging.
- ☐ has an actual, perceived or potential conflict of interest regarding this procurement process as a result of:

State reason(s) for Conflict of Interest:

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By signing below, I certify that all statements made on this form are true and correct to the best of my knowledge.

\_\_\_\_\_  
Print Name of Person Signing Disclosure

\_\_\_\_\_  
Signature of Person Making Disclosure

\_\_\_\_\_  
Date Signed

*Tenderer's Initials* \_\_\_\_\_



**APPENDIX 7**

**ACKNOWLEDGEMENT LETTER**

The undersigned has received a full set of Tender Documents.

\_\_\_\_\_  
Authorized Signatory Signature

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Name (Please print)

\_\_\_\_\_  
Address

\_\_\_\_\_  
Title

\_\_\_\_\_  
City, Province, Postal Code

\_\_\_\_\_  
Phone Number

\_\_\_\_\_  
Email

\_\_\_\_\_  
Date

I/We presently intend ☐ to provide ☐ not to provide a Tender.

☐ Please send any amendments to this Invitation to Tender via email.

Please return immediately by email to:  
Project Manager [bseitz@rdffg.bc.ca](mailto:bseitz@rdffg.bc.ca)

*Tenderer's Initials*

\_\_\_\_\_



**APPENDIX 8**

**GOODS AND SERVICES TAX INFORMATION**

Tenderer: \_\_\_\_\_  
Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
City Province

\_\_\_\_\_  
Postal Code Phone Number

Are you a GST Registrant? Yes \_\_\_\_\_ No \_\_\_\_\_

If YES, please indicate your registration number: \_\_\_\_\_

If NO, please fill in the following (check appropriate box)

☐ Supplier qualifies as a small supplier under s. 148 of the legislation

☐ Other: Specify \_\_\_\_\_

\_\_\_\_\_  
Signature of Authorized Person

\_\_\_\_\_  
Name (Printed)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

*Tenderer's Initials* \_\_\_\_\_



## **APPENDIX 9**

### **TENDERER CHECKLIST**

Before submitting your tender, check the following points:

- ☐ Has the Tender Form been signed and witnessed?
- ☐ Is the Schedule of Prices completed?
- ☐ Are the following pages included?
  - Schedule of Prices – Tendered Price
  - Preliminary Construction Schedule?
  - Experience of Superintendent?
  - Comparable Work Experience?
  - Subcontractors?
  - Conflict of Interest Disclosure Statement?
  - Goods and Services Tax Information?
  - Any Addenda?
- ☐ Are the documents complete?
- ☐ Are the documents enclosed in a sealed envelope, if submitting by mail, drop off, or courier?

**Note:** *Your tender may be disqualified if ANY of the applicable foregoing points have not been complied with.*

Ensure that the tender is returned in a sealed envelope clearly marked on the outside with the following, clearly following the tender closing instructions in Part A of this ITT.

- ☐ Attention: General Manager of Financial Services  
Regional District of Fraser-Fort George  
155 George Street  
Prince George, BC V2L 1P8
- ☐ Paving PSOB Access Route  
PS-24-07
- ☐ Responding Organization's Name and Address

OR

Ensure that the tender is submitted via email to [purchasing@rdffg.bc.ca](mailto:purchasing@rdffg.bc.ca) clearly following the tender closing instructions in this ITT.

*Tenderer's Initials*

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(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

BETWEEN OWNER AND CONTRACTOR

This agreement made in duplicate this

\_\_\_\_\_ day of \_\_\_\_\_, 2024.

Contract: PAVING PUBLIC SAFETY OPERATIONS BUILDING ACCESS ROUTE

Reference No. TENDER # PS-24-07

BETWEEN:

The *REGIONAL DISTRICT OF FRASER-FORT GEORGE*

(the "Owner")

AND:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(NAME AND OFFICE ADDRESS OF CONTRACTOR)

(the "Contractor")

**The Owner and the Contractor agree as follows:**

- |  |  |     |   |     |   |     |   |
|--|--|-----|---|-----|---|-----|---|
| <b>Article 1.0 The Work<br/>Start /<br/>Completion<br/>Dates</b> | <table border="0"><tr><td style="vertical-align: top;">1.1</td><td>The <i>Contractor</i> will perform all <i>Work</i> and provide all labour, equipment and material and do all things strictly as required by the <i>Contract Documents</i>.</td></tr><tr><td style="vertical-align: top;">1.2</td><td>The <i>Contractor</i> will commence the <i>Work</i> in accordance with the <i>Notices to Proceed</i>. The <i>Contractor</i> will proceed with the <i>Work</i> diligently, will perform the <i>Work</i> generally in accordance with the construction schedules as required by the <i>Contract Documents</i> and will achieve <i>Substantial Performance</i> of the <i>Work</i> within 45 calendar days from the start of construction and before June 13, 2025, subject to the provisions of the <i>Contract Documents</i> for adjustments to the <i>Contract Time</i>.</td></tr><tr><td style="vertical-align: top;">1.3</td><td>Time shall be of the essence of the <i>Contract</i>.</td></tr></table> | 1.1 | The <i>Contractor</i> will perform all <i>Work</i> and provide all labour, equipment and material and do all things strictly as required by the <i>Contract Documents</i> . | 1.2 | The <i>Contractor</i> will commence the <i>Work</i> in accordance with the <i>Notices to Proceed</i> . The <i>Contractor</i> will proceed with the <i>Work</i> diligently, will perform the <i>Work</i> generally in accordance with the construction schedules as required by the <i>Contract Documents</i> and will achieve <i>Substantial Performance</i> of the <i>Work</i> within 45 calendar days from the start of construction and before June 13, 2025, subject to the provisions of the <i>Contract Documents</i> for adjustments to the <i>Contract Time</i> . | 1.3 | Time shall be of the essence of the <i>Contract</i> . |
| 1.1  | The <i>Contractor</i> will perform all <i>Work</i> and provide all labour, equipment and material and do all things strictly as required by the <i>Contract Documents</i> .  |     |   |     |   |     |   |
| 1.2  | The <i>Contractor</i> will commence the <i>Work</i> in accordance with the <i>Notices to Proceed</i> . The <i>Contractor</i> will proceed with the <i>Work</i> diligently, will perform the <i>Work</i> generally in accordance with the construction schedules as required by the <i>Contract Documents</i> and will achieve <i>Substantial Performance</i> of the <i>Work</i> within 45 calendar days from the start of construction and before June 13, 2025, subject to the provisions of the <i>Contract Documents</i> for adjustments to the <i>Contract Time</i> .  |     |   |     |   |     |   |
| 1.3  | Time shall be of the essence of the <i>Contract</i> .  |     |   |     |   |     |   |

*Tenderer's Initials*

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- |                    |                            |       |   |
|--------------------|----------------------------|-------|---|
| <b>Article 2.0</b> | <b>Contract Documents</b>  | 2.1   | The " <i>Contract Documents</i> " consist of the documents listed or referred to in Schedule 1, entitled "Schedule of Contract Documents", which is attached and forms a part of this Agreement, and includes any and all additional and amending documents issued in accordance with the provisions of the <i>Contract Documents</i> . All of the <i>Contract Documents</i> shall constitute the entire <i>Contract</i> between the <i>Owner</i> and the <i>Contractor</i> . |
|                    |                            | 2.2   | The <i>Contract</i> supersedes all prior negotiations, representations or agreements, whether written or oral, and the <i>Contract</i> may be amended only in strict accordance with the provisions of the <i>Contract Documents</i> .  |
| <b>Article 3.0</b> | <b>Contract Price</b>      | 3.1   | The price for the <i>Work</i> (" <i>Contract Price</i> ") shall be the sum in Canadian dollars of the following   |
|                    |                            | 3.1.1 | the product of the actual quantities of the items of <i>Work</i> listed in the <i>Schedule of Quantities and Prices</i> which are incorporated into or made necessary by the <i>Work</i> and the unit prices listed in the <i>Schedule of Quantities and Prices</i> ; plus  |
|                    |                            | 3.1.2 | all lump sums, if any, as listed in the <i>Schedule of Quantities and Prices</i> , for items relating to or incorporated into the <i>Work</i> ; plus  |
|                    |                            | 3.1.3 | any adjustments, including any payments owing on account of <i>Changes</i> and agreed to <i>Extra Work</i> , approved in accordance with the provisions of the <i>Contract Documents</i> .  |
|                    |                            | 3.2   | The <i>Contract Price</i> shall be the entire compensation owing to the <i>Contractor</i> for the <i>Work</i> and this compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing, and all other costs and expenses whatsoever incurred in performing the <i>Work</i> .   |
| <b>Article 4.0</b> | <b>Payment</b>             | 4.1   | Subject to applicable legislation and the provisions of the <i>Contract Documents</i> , the <i>Owner</i> shall make payments to the <i>Contractor</i> .   |
|                    |                            | 4.2   | If the <i>Owner</i> fails to make payments to the <i>Contractor</i> as they become due in accordance with the terms of the <i>Contract Documents</i> then interest calculated at 2% per annum over the prime commercial lending rate of the Royal Bank of Canada on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.   |
| <b>Article 5.0</b> | <b>Rights and Remedies</b> | 5.1   | The duties and obligations imposed by the <i>Contract Documents</i> and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.  |

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<b>Article 5.0 Rights and Remedies</b> (cont'd)	5.2	Except as specifically set out in the Contract Documents, no action or failure to act by the Owner, Contract Administrator or Contractor shall constitute a waiver of any of the parties' rights or duties afforded under the Contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach under the Contract.
<b>Article 6.0 Notices</b>	6.1	Communications among the <i>Owner</i> , the <i>Contract Administrator</i> and the <i>Contractor</i> , including all written notices required by the <i>Contract Documents</i> , may be delivered by hand, or by email, or by pre-paid registered mail to the addresses as set out below:

The *Owner*:

*REGIONAL DISTRICT OF FRASER-FORT GEORGE*

*155 George Street*

*Prince George, BC, V2L 1P8*

Email: [bseitz@rdffg.bc.ca](mailto:bseitz@rdffg.bc.ca)

Attention: *Bonnie Seitz, Project Manager*

The *Contractor*:

\_\_\_\_\_  
\_\_\_\_\_

Email: \_\_\_\_\_

Attention: \_\_\_\_\_  
\_\_\_\_\_

The *Contract Administrator*:

*Jun Xiong MSc., P.Eng., CPESC.*

Email: *Jxiong@mcelhanney.com*

Tel: *778-693-2686*

*Tenderer's Initials*

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**Article 6.0 Notices  
(cont'd)**

- 6.2 A communication or notice that is addressed as above shall be considered to have been received
- 6.2.1 immediately upon delivery, if delivered by hand; or
- 6.2.2 immediately upon being read if sent by email; or
- 6.2.3 after 5 *Days* from date of posting if sent by registered mail.
- 6.3 The *Owner* or the *Contractor* may, at any time, change its address for notice by giving written notice to the other at the address then applicable. Similarly, if the *Contract Administrator* changes its address for notice then the *Owner* will give or cause to be given written notice to the *Contractor*.
- 6.4 The sender of a notice by email assumes all risk that the email is received.

**Article 7.0 General**

- 7.1 This *Contract* shall be construed according to the laws of British Columbia.
- 7.2 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.
- 7.3 The headings included in the *Contract Documents* are for convenience only and do not form part of this *Contract* and will not be used to interpret, define or limit the scope or intent of this *Contract* or any of the provisions of the *Contract Documents*.
- 7.4 A word in the *Contract Documents* in the singular includes the plural and, in each case, vice versa.
- 7.5 This agreement shall endure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns.

*Tenderer's Initials*

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**Article 7.0 General**  
(cont'd)

IN WITNESS WHEREOF the parties hereto have executed this Agreement the day and year first written above.

*Contractor:*

\_\_\_\_\_  
(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

\_\_\_\_\_  
(AUTHORIZED SIGNATORY)

\_\_\_\_\_  
(NAME AND TITLE OF PERSON SIGNING)

(WITNESS)

*Owner:*

*REGIONAL DISTRICT OF FRASER-FORT GEORGE*

\_\_\_\_\_  
(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

\_\_\_\_\_  
(AUTHORIZED SIGNATORY)

\_\_\_\_\_  
(NAME AND TITLE OF PERSONS SIGNING)

\_\_\_\_\_  
(AUTHORIZED SIGNATORY)

\_\_\_\_\_  
(NAME AND TITLE OF PERSON SIGNING)

*Tenderer's Initials*

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**Schedule 1 Schedule of  
Contract  
Documents**

The following is an exact and complete list of the *Contract Documents*, as referred to in Article 2.1 of the Agreement.

**NOTE:** The documents noted with “\*” are contained in the “Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings”, edition dated 2019. All sections of this publication are included in the *Contract Documents*.

- Agreement, including all Schedules;
- Supplementary General Conditions;
- General Conditions\*;
- Supplementary Specifications;
- Drawings listed in Schedule 2 to the Agreement;
- Standard Detail Drawings\*;
- Executed Form of Tender; including all Appendices;
- Instructions To Tenderers: Part I and II\*;
- MMCD Supplementary Updates:  
2021-04-23  
2022-04-07
- All other attachments.

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(COMPLETE LISTING OF ALL DRAWINGS, PLANS AND SKETCHES WHICH ARE TO FORM A PART OF THE CONTRACT,  
OTHER THAN STANDARD DETAIL DRAWINGS AND SUPPLEMENTARY STANDARD DETAIL DRAWINGS.)

**Schedule 2 – List of Contract Drawings -update**

DRAWING NO.	TITLE	DATE	REVISION NO.
C101	PLAN AND PROFILE	24/10/04	1
C301	NOTES AND DETAILS	24/10/04	1
E001	ELECTRICAL SITE PLAN	24/10/04	0
E002	ELECTRICAL DETAILS	24/10/04	0

End

*Tenderer's Initials*

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**Modifications and Additions to the Master  
Municipal Construction Documents**

The following conditions form part of the Contract and are supplementary to the MMCD General Conditions and Specifications. In the event of a direct conflict between the MMCD General Conditions and these Supplementary GC's the Supplementary GC's take precedence.

SECTION	SUB SECTION	SUPPLEMENTARY GENERAL CONDITIONS
IT-PART II 5.0 TENDER REQUIREMENT	5.2	<b>Amend 5.2</b> by <b>deleting</b> "in an amount equal to 10% of the <i>Tender Price</i> ." and <b>substituting</b> "in an amount equal to \$15,000."
		<b>deleting</b> 5.2.2
	5.4	<b>Amend 5.2</b> by <b>deleting</b> "and a Labour and Material Payment Bond"
GC 1.0 DEFINITIONS	1.79 Utilities	<b>Add 1.79</b> as follows:  "Utilities" is used broadly and includes but is not limited to any and all lines, poles, structures, facilities, utilities for power, cable, TV, telephone, telecommunications, all sanitary and storm sewers, and all water, oil, gas and electric services, all steam pipes and services, all survey monuments, all street lights, traffic lights, traffic detector loops embedded in pavement, culverts, rail tracks, whether located above or below ground, whether visible or invisible, whether man-made or natural."
	1.80 Engineer	<b>Add 1.80</b> as: "Engineer means the Contract Administrator."
GC 2.0 DOCUMENTS	2.2.4 Document Hierarchy	<b>Replace Section (1)</b> with the following:  The Contract Documents shall govern and take precedence in the following order with the Agreement taking precedence over all other Contract Documents:  <ul style="list-style-type: none"> <li>.1 Agreement</li> <li>.2 Addenda</li> <li>.3 Supplementary General Conditions</li> <li>.4 MMCD Board Approved Supplementary General Conditions</li> <li>.5 General Conditions (MMCD)</li> <li>.6 Supplementary Specifications</li> <li>.7 MMCD Board Approved Supplementary Specifications</li> <li>.8 Specifications (MMCD)</li> <li>.9 Drawings listed in Schedule 2 to the agreement</li> <li>.10 Standard Detail Drawings</li> <li>.11 Executed Form of Tender</li> <li>.12 Instructions to Tenderers</li> <li>.13 All other Contract Documents.</li> </ul>

*Tenderer's Initials*

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SECTION	SUB SECTION	SUPPLEMENTARY GENERAL CONDITIONS
GC 3.0 CONTRACT ADMINISTRATOR	3.3 Contract Administrator	<b>Amend 3.3.5</b> by <b>deleting</b> “or control points at the place of work, sufficient to enable the <i>Contractor</i> ” and <b>substituting</b> “or control points at the place of work, or digital files, sufficient to enable the <i>Contractor</i> ”
GC 4.0 CONTRACTOR	4.3 Protection of Work, Property and the Public	<b>Add 4.3.5.1</b> as follows: “The Contractor shall notify the Contract Administrator immediately if damage to any structures occurs.”
	4.6 Construction Schedule	<b>Amend 4.6.2</b> by <b>deleting</b> “monthly” and <b>substituting</b> “monthly or as required by the Contract Administrator.”
	18.5 Payment	<b>Amend 18.5.1</b> by <b>deleting</b> “15 <sup>th</sup> day” and <b>substituting</b> “30 <sup>th</sup> day”.
GC 20.0 LAWS, NOTICES, PERMITS AND FEES	20.4 Environmental Laws	<b>Add 20.4.2</b> as follows: “The <i>Contractor</i> shall indemnify the <i>Owner</i> for any costs, fines, expenses and penalties that the <i>Owner</i> is required to pay on account of the <i>Contractor</i> performing <i>Work</i> in breach of any applicable Federal, or Provincial or Municipal environmental laws, regulations, or orders.”

END

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SUPPLEMENTARY SPECIFICATIONS		
Add the following Supplementary Specifications (attached at end):		
SECTION	SUB SECTION	SUPPLEMENTARY SPECIFICATION
01 10 00SS Measurement and Payment	All	Per attached separate specification sections
Revise the following Master Municipal Specifications 2019 Edition:		
SECTION	SUB SECTION	SUPPLEMENTARY SPECIFICATION
01 52 01 Temporary Structures	1.6 Measurement and Payment	<p><b>Add Clause 1.6.2:</b> "Payment for mobilization and demobilization shall include all the Contractor costs of mobilization at the beginning of the project and the cost of demobilization at the end of the project.</p> <p>Included in the mobilization are such items as bonding, insurance, permits, moving personnel, equipment and materials to the site, setting up temporary facilities and all preparation for performing the <i>Work</i>.</p> <p>Included in demobilization are contractor's red line record drawings, removal of all personnel, equipment and materials and cleanup of the <i>Site</i> and the <i>Work</i>.</p> <p>Payment shall be made as follows, as approved by the Contract Administrator:</p> <p>60% of the lump sum bid will be included in the first progress payment certificate.</p> <p>40% of the lump sum bid will be included in the final progress payment certificate.</p> <p>The Contract Administrator may at his discretion authorize partial payment if mobilization or demobilization is not complete.</p> <p>The cost of other items specified under General Requirements shall be considered incidental to the work and separate payment will not be made for any other items in the General Requirements unless specifically noted in the <i>Schedule of Quantities and Prices</i>."</p>

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<b>31 24 13 Roadway Excavation, Embankment and Compaction</b>	1.8 Measurement and Payment	<b>Replace Clause 1.8.5 with:</b> "Payment for common excavation is paid separately for removal and disposal of existing pavement (including saw cutting), and below pavement excavation (including existing gravel and soil to the design sub-grade level)."
		<b>Add para 1.8.5.1:</b> measurement of existing pavement removal is based on neat line area in square meters as surveyed on Jan 8 <sup>th</sup> 2024 and shown in drawing sheet C301.
		<b>Add para 1.8.5.2:</b> Measurement of below-pavement excavation is based on the neat line volume in cubic meters, determined by comparing the existing surface surveyed on January 8 <sup>th</sup> , 2024, with the design surface at the sub-grade level as shown on drawing sheet C301. The volume of the existing asphalt, which will be subtracted from this total, shall be determined by the Contract Administrator by multiplying the average thickness by the neat line area.
<b>32 12 13.1 Asphalt Tack Coat</b>	1.5 Measurement and Payment	<b>Replace Clause 1.5.1 with:</b> "Payment for asphalt tack coat is included in the unit price tendered under section <b>32 12 16 Hot Mix Asphalt Concrete Paving.</b> "
<b>32 12 13.2 Asphalt Prime</b>	1.5 Measurement and Payment	<b>Replace Clause 1.5.1 with:</b> "Payment for asphalt prime is included in the unit price tendered under section <b>32 12 16 Hot Mix Asphalt Concrete Paving.</b> "
<b>32 12 16 Hot Mix Asphalt Concrete Paving</b>	1.5 Measurement and Payment	<b>Clause 1.5.1 change:</b> "based on weigh tickets provided to Contract Administrator as loads are delivered" to "based on area for each thickness specified in the Schedule of Quantities and Prices".  <b>Add para 1.5.1.1</b> Paving unit price tendered shall include prior milling, disposal of milled asphalt, prime coating, tack coating, re-paving over the milled areas, and lap-joints.
<b>32 12 16.1 Granular Subbase</b>	1.4 Measurement and Payment	<b>Clause 1.4.3 change:</b> "for the actual area placed" to "neat line area in square meters measured from design drawing sheet C301"
<b>32 11 23 Granular Base</b>	1.4 Measurement and Payment	<b>Clause 1.4.2 change:</b> "for the actual area placed" to "neat line area in square meters measured from design drawing sheet C301"
<b>33 01 30.1 CCTV Inspection of Pipelines</b>	1.6 Measurement and Payment	<b>Replace Clause 1.6.2 with:</b> "CCTV pipeline inspection will be paid as a lump sum item."
<b>33 40 01 Storm Sewers</b>	1.6 Measurement and Payment	<b>Clause 1.6.2 change:</b> "Payment for storm sewer includes saw cutting pavement, trench excavation" to: "Payment for storm sewer includes trench excavation below pavement design subgrade level to the bottom of trench as required".

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<b>33 44 01 Manholes and Catch basins</b>	1.5 Measurement and Payment	<b>Clause 1.5.1.1: Delete:</b> "except riser". <b>Replace with:</b> "including riser".
		<b>Delete Clause 1.5.1.2</b>
		<b>Clause 1.5.2 change:</b> "Payment includes excavation..." <b>to</b> "Payment includes excavation below pavement design subgrade level to the bottom of trench as required".
		<b>Add Para 1.5.7:</b> "payment for recharge chamber includes manhole base, risers, lid, slab, frame, cover, geo-textile and drain rock, as well as dewatering, base preparation, all in-situ concrete work"

END

*Tenderer's Initials*

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**1.0**  
**GENERAL**

- .1 **Section 01 10 00 SS** addresses additional measurement and payment clauses which do not apply to other specification sections.

**1.1**  
**Quality Control Testing**

- .1 The Owner has engaged SoilTech to perform all necessary quality management testing on material compaction, as indicated on the Drawings and specified in the attached Geotechnical Design Memos.
- .2 Contractor shall coordinate and provide necessary support, such as providing gravel samples for standard Proctor density tests or making a flat area for field densometer tests, to allow testing to be performed accordingly. No additional payment shall arise from the contractor's effort to ensure the complete satisfaction of all quality control requirements.
- .3 Give timely notice requesting testing or inspection if *Work* is designated for tests or inspections, or review by the Contract Administrator's instructions.
- .4 All submissions shall be prompt, to ensure that all necessary retesting and replacement of construction can proceed without delay.
- .5 Process and distribute all required copies of test reports and test information and related instructions to all the Contractor's Sub-Contractors and Suppliers, to ensure that any necessary retesting and replacement of construction can proceed without delay.
- .6 Provide the Owner with copies of all test results.
- .7 Submit samples and/or materials required for testing, as specifically requested in specifications or by the Contract Administrator.
- .8 Submit test results demonstrating/specifying that material requirements are being met.
- .9 Provide labour and facilities to obtain and handle samples and materials on-site.

**1.2**  
**Electrical conduit,  
wiring, equipment &  
connections**

- .1 Provide all electrical materials, equipment, and labour as required to provide power to the new illuminated sign at the property entrance as indicated in the drawing package. Refer to the Electrical Specifications on sheet E002 for technical requirements.
- .2 Contractor shall coordinate with the sign supplier as required to ensure sign electrical requirements are met.
- .3 Provide all conduit, wiring, enclosures and installation labour as required to allow for installation of access control equipment as outlined in Section 1.3 for the motorized slide gate. Refer to the Electrical Specifications on sheet E002 for technical requirements.
- .4 Payment shall be a lump sum including all materials, equipment, and labour included in this section. Measurement will be made based on a percentage complete estimated by the contractor and agreed by Contract Administrator and will not exceed 80% of the total amount until testing and commissioning has been completed and inspected by the Engineer.

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**1.3**  
**Access control**  
**equipment, termination**  
**& commissioning**

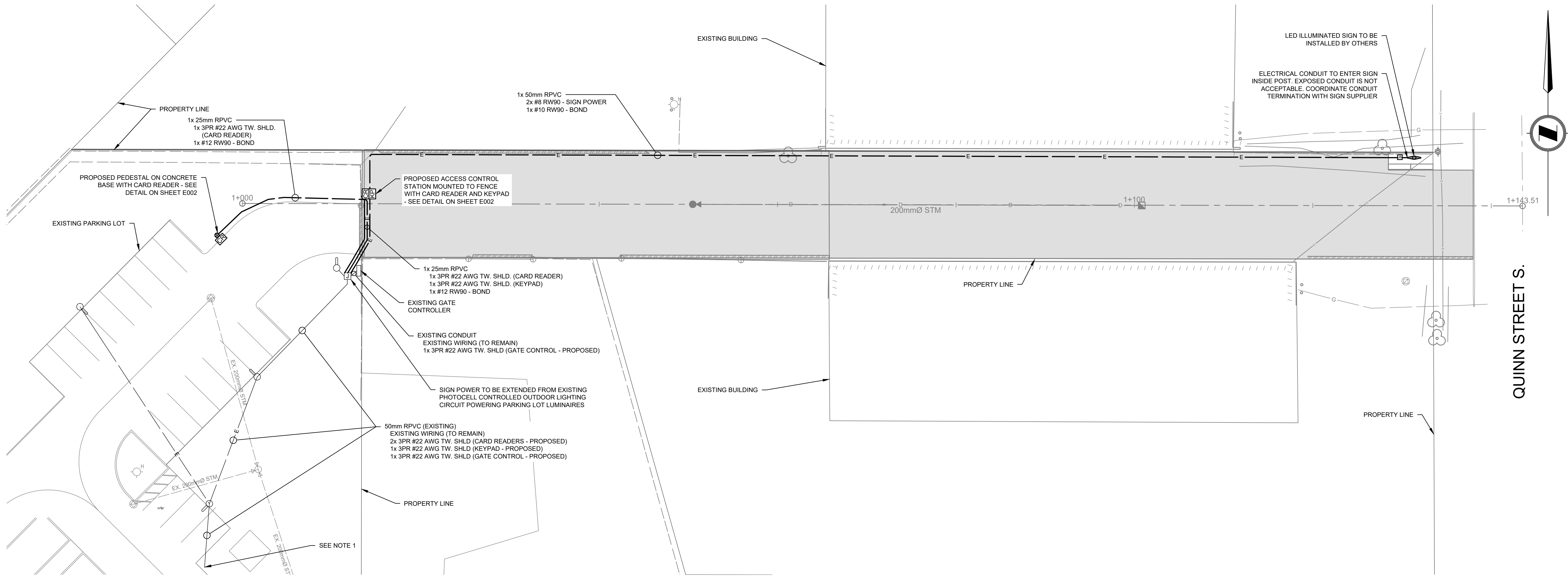
- .1 Contractor shall coordinate with the District's security provider, Telus Security, for the supply and installation of the access control equipment including keypad, card readers, and access control module(s) in the building. Telus Security to terminate all security wiring and commission system.
- .2 Payment shall be a lump sum for all Telus Security costs plus a 15% markup for coordination and processing costs. Contractor shall provide a copy of Telus Security invoice to receive payment. A cost estimate is specified in Appendix 1 – Schedule of Quantities and Prices and is subject to adjustment once the cost is confirmed with Telus.

END

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McElhanney ANS D - 2024-09-05  
DATE: 2024-10-03 09:25 FILE: X:\2341\Projects\2341-21215-12 RDPFG PSOB Access Surfacing\07\_DRAWINGS\01\_Sheets\2341-21215-12 EDELEC.dwg  
2341-21215-12 RDPFG PSOB Access Surfacing\07\_DRAWINGS\01\_Sheets\2341-21215-12 EDELEC.dwg



ELECTRICAL SITE PLAN  
SCALE: 1:250

NOTES:

1. SECURITY CABLING TO BE RUN CONTINUOUS BACK TO BUILDING AND COILED WITH 3 m SLACK AT ACCESS CONTROL CABINET FOR TERMINATION BY SECURITY CONTRACTOR.
  - 1.1. SECURITY CABLING TO BE MINIMUM 300 V RATED FOR WET LOCATIONS.
  - 1.2. SECURITY CABLING IS NOT PERMITTED TO BE SPLICED.
  - 1.3. PROVIDE 2 m COILED CABLE IN JUNCTION BOX NEAR GATE CONTROLLER.
  - 1.4. SECURITY CABLING TO BE RUN IN EMT CONDUIT INSIDE BUILDING FROM WHERE RPVC CONDUIT ENTERS BUILDING TO ACCESS CONTROL EQUIPMENT.
2. ACCESS CONTROL EQUIPMENT INCLUDING CARD READERS, KEYPAD, AND CONTROL MODULES TO BE SUPPLIED, INSTALLED, AND COMMISSIONED BY RDPFG SECURITY CONTRACTOR.
  - 2.1. GENERAL CONTRACTOR TO PROVIDE ALL CONDUIT, WIRING, BACKBOXES, ETC TO ALLOW FOR ACCESS CONTROL SYSTEM INSTALLATION.
  - 2.2. GENERAL CONTRACTOR TO COORDINATE WITH SECURITY CONTRACTOR AS REQUIRED.
  - 2.3. SHOP DRAWINGS TO BE SUBMITTED TO ENGINEER FOR ALL ACCESS CONTROL EQUIPMENT PRIOR TO PROCUREMENT.

LEGEND

- EX. AREA LIGHT POLE
- EX. ELECTRICAL CONDUIT
- PROP. ELECTRICAL CONDUIT
- EX. JUNCTION BOX
- PROP. JUNCTION BOX
- PROP. CARD READER
- PROP. KEYPAD
- PROP. COMMERCIAL SIGN

THIS DRAWING AND DESIGN IS THE PROPERTY OF McELHANNEY AND SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF McELHANNEY. McELHANNEY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.			THIS DRAWING AND DESIGN HAS BEEN PREPARED FOR THE CLIENT IDENTIFIED, TO MEET THE STANDARDS AND REQUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES AT THE TIME OF PREPARATION. McELHANNEY, ITS EMPLOYEES, SUBCONSULTANTS AND AGENTS WILL NOT BE LIABLE FOR ANY LOSSES OR OTHER CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON, OR ANY CHANGES MADE TO, THIS DRAWING, BY ANY THIRD PARTY, INCLUDING CONTRACTORS, SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT McELHANNEY'S PRIOR WRITTEN CONSENT.		
INFORMATION ON EXISTING UNDERGROUND FACILITIES MAY NOT BE COMPLETE OR ACCURATE. McELHANNEY, ITS EMPLOYEES AND DIRECTORS ARE NOT RESPONSIBLE NOR LIABLE FOR THE LOCATION OF ANY UNDERGROUND CONDUITS, PIPES, CABLES OR OTHER FACILITIES WHETHER SHOWN OR OMITTED FROM THIS PLAN. PRIOR TO CONSTRUCTION CONTRACTOR SHALL EXPOSE LOCATIONS OF ALL EXISTING FACILITIES BY HAND DIGGING OR HYDROVAC AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.					
0	2024-10-04	ISSUED FOR TENDER	MA	EH	TY
PA	2024-09-05	ISSUED FOR REVIEW	EH	EH	TY
Rev	Date	Description	Drawn	Design	App'd

ORIGINAL DWG SIZE: ANSI D (22" x 34")

0 1:250 10

**McElhanney**  
12 - 556 North Nechako Road,  
Prince George BC V2K 1A1  
Tel. 250 561 2229

PERMIT TO PRACTICE

McElhanney Ltd.  
PERMIT NUMBER: 1003299

Engineers and Geoscientists of  
British Columbia

NOT FOR  
CONSTRUCTION

Approved Sealed

REGIONAL DISTRICT OF FRASER - FORT GEORGE  
155 GEORGE STREET PRINCE GEORGE BC V2L 1P8  
PSOB ACCESS LANE RE-SURFACING  
ELECTRICAL SITE PLAN

Drawing No.

E001

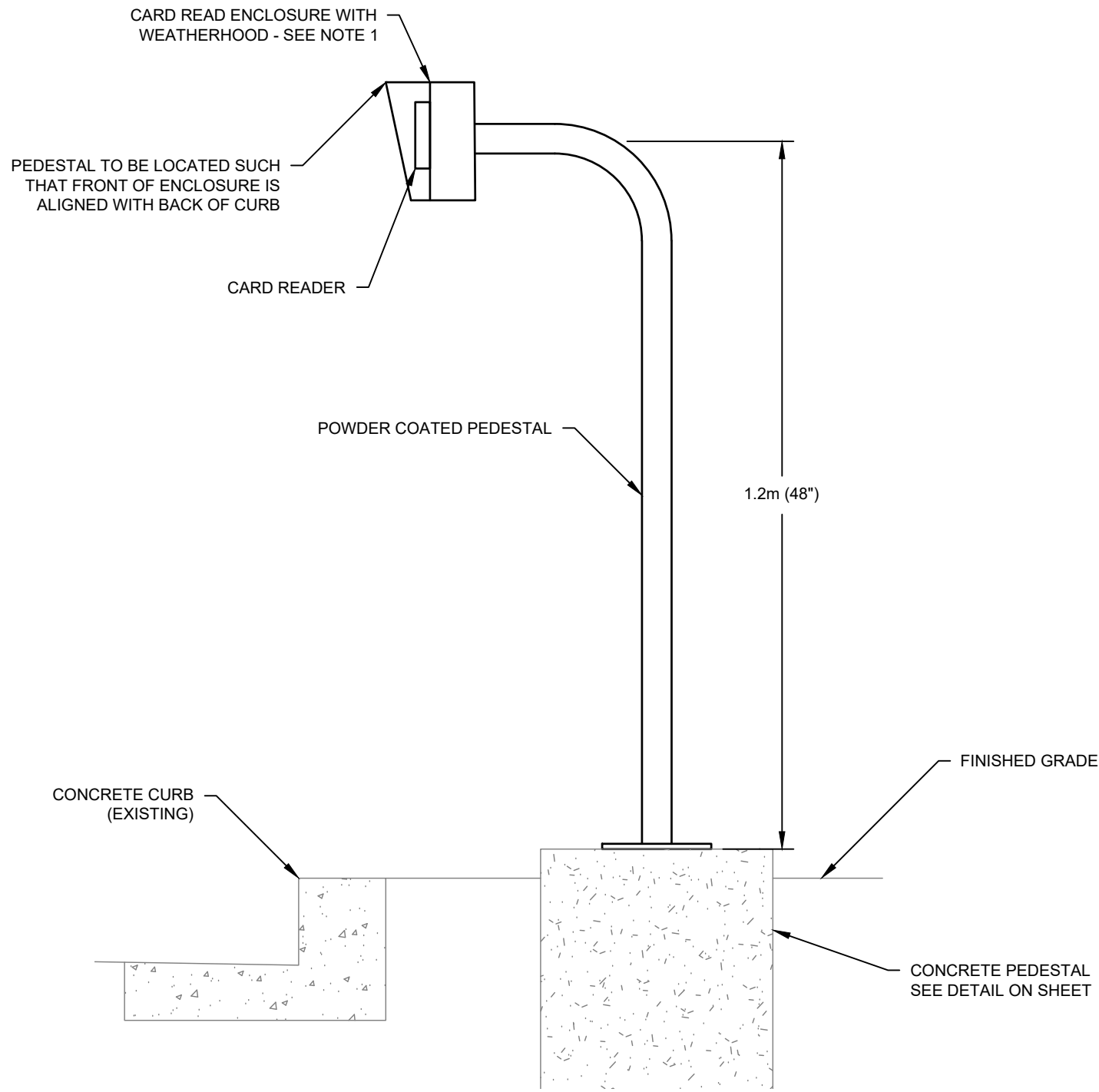
Project Number  
2341-21215-12

Rev.  
0

DESTROY ALL PRINTS BEARING PREVIOUS REVISION



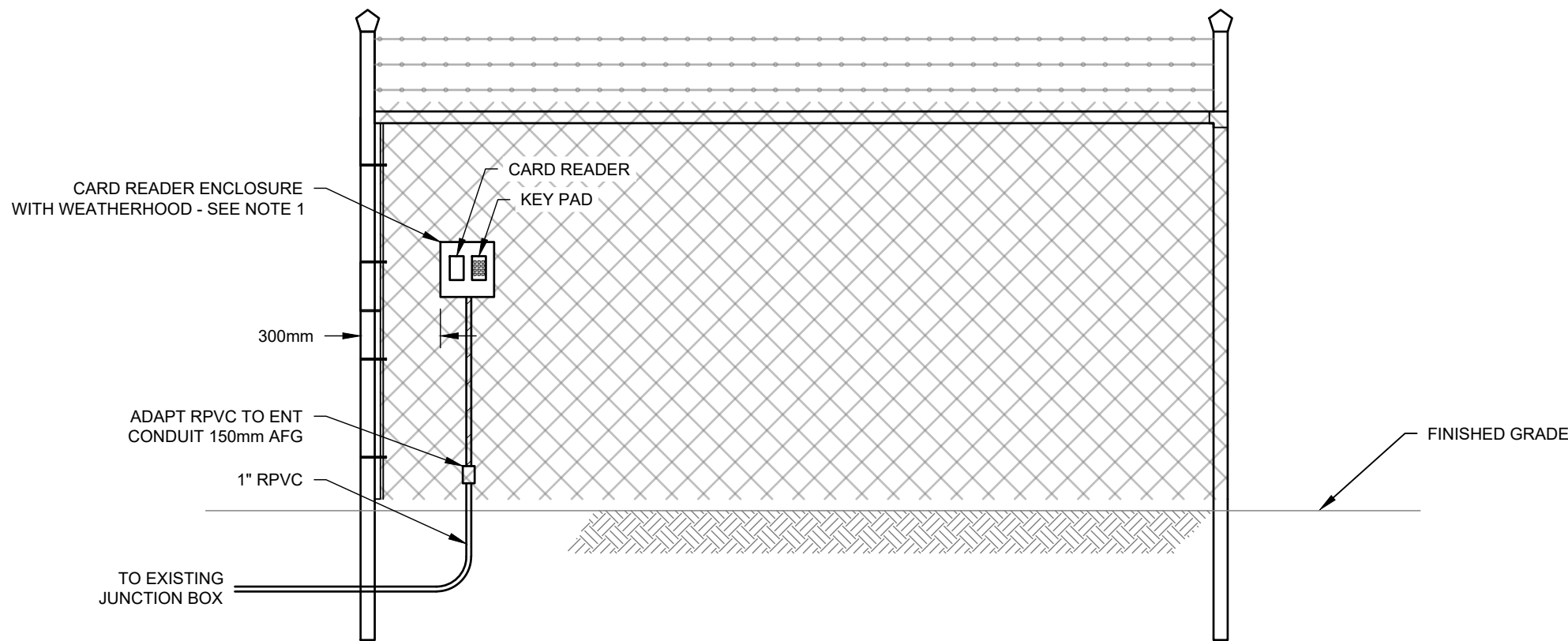
McElhanney ANS D - 2024-03-05  
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PEDESTAL ELEVATION DETAIL  
SCALE: NTS

PEDESTAL DETAIL NOTES:

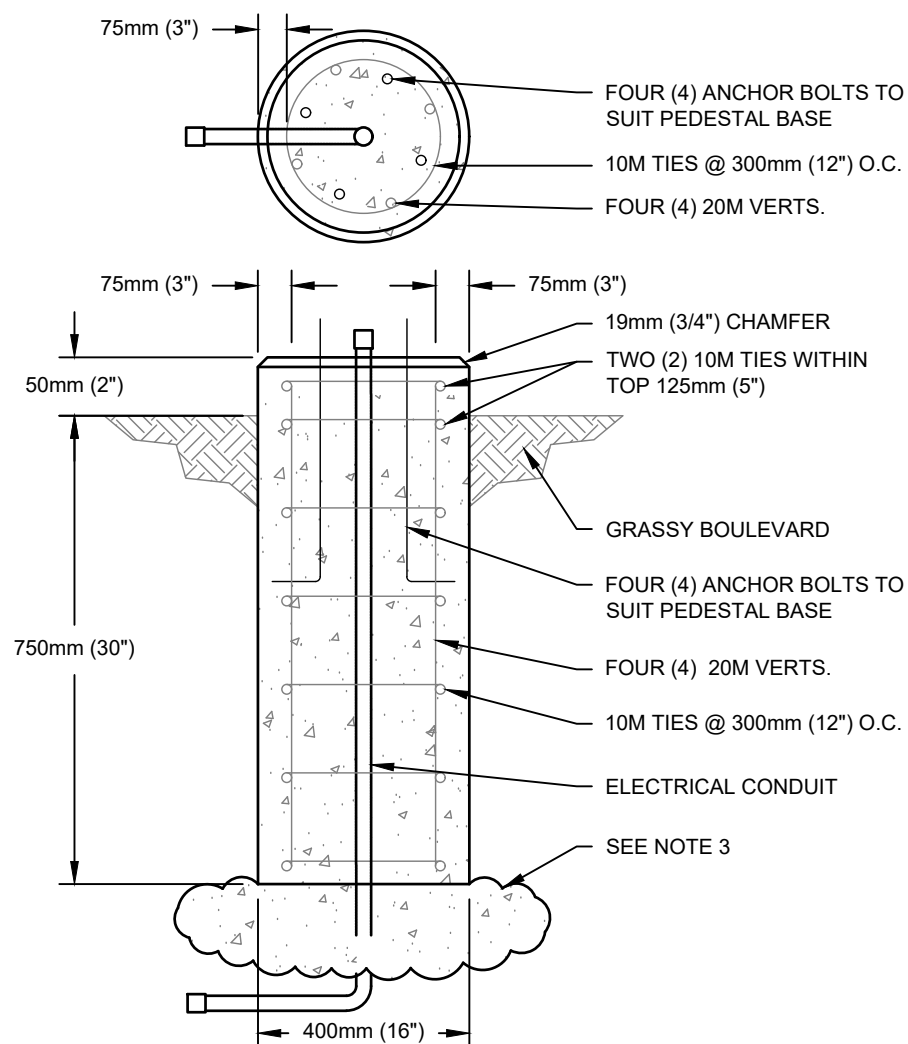
- CARD READER ENCLOSURE TO BE PEDESTAL PRO MC-CS-08-E OR ENGINEER APPROVED EQUAL.
- PEDESTAL TO BE PEDESTAL PRO 48-9C OR ENGINEER APPROVED EQUAL.
- SUBMIT SHOP DRAWINGS PRIOR TO ORDERING.
- CONFIRM CARD READER DIMENSIONS WITH SECURITY CONTRACTOR PRIOR TO CONSTRUCTION.



EXTERIOR ACCESS CONTROL STATION DETAIL  
PUBLIC SIDE PERSPECTIVE  
SCALE: NTS

EXTERIOR ACCESS CONTROL STATION NOTES:

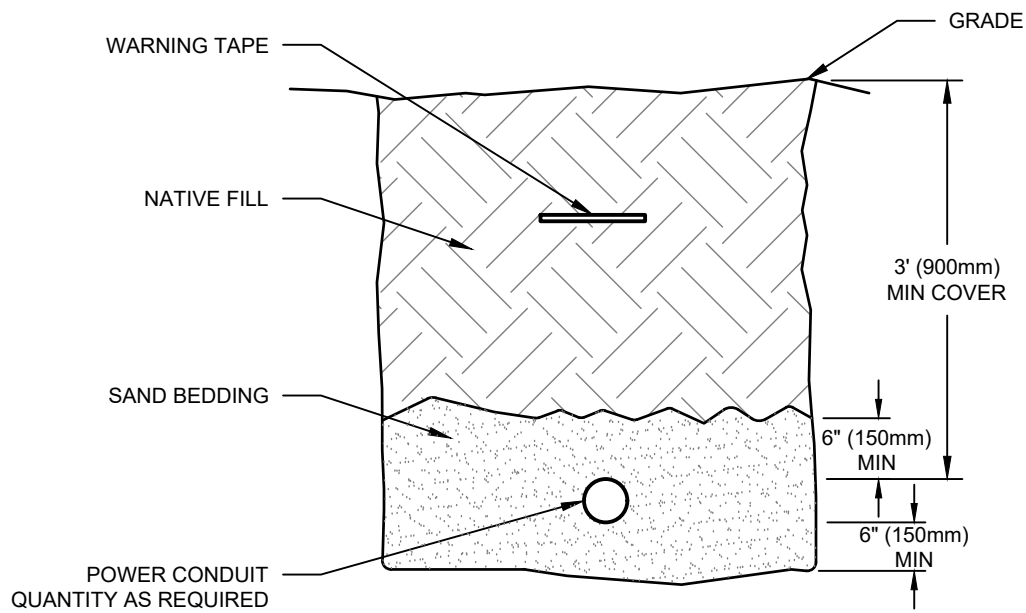
- CARD READER ENCLOSURE TO BE PEDESTAL PRO MC-CS-08-E OR ENGINEER APPROVED EQUAL.
- SUBMIT SHOP DRAWINGS PRIOR TO ORDERING.
- CONFIRM CARD READER DIMENSIONS WITH SECURITY CONTRACTOR PRIOR TO CONSTRUCTION.



CONCRETE PEDESTAL  
(SMALL)  
SCALE: NTS

PEDESTAL BASE NOTES:

- CONCRETE TO BE 35MPA, MAX W/C RATIO 0.40, 5-8% AIR, 19mm (3/4") MAX. AGGREGATE
- PROVIDE 19mm (3/4") CHAMFER ON ALL EXPOSED CONCRETE EDGES
- ALLOW CONCRETE TO POOL OUT BELOW BOTTOM OF SONOTUBE TO REDUCE POSSIBILITY OF FROST HEAVING.



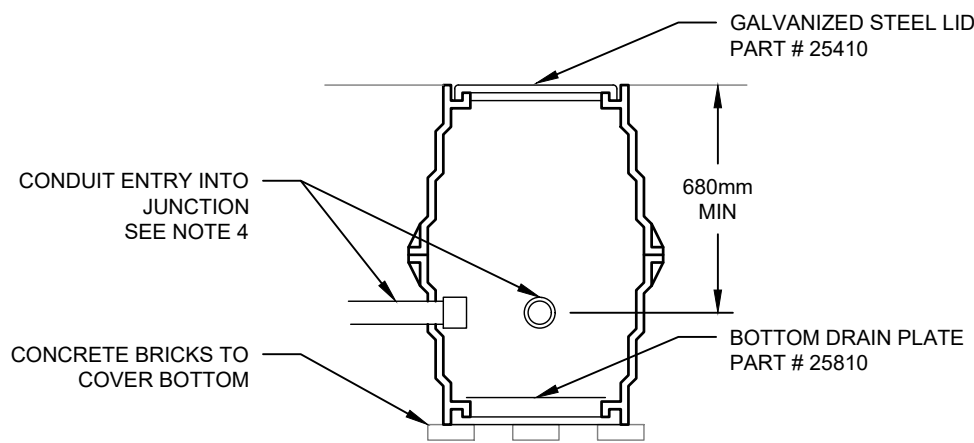
NOTE:  
UNLESS OTHERWISE NOTED MAINTAIN A MINIMUM  
SPACING OF 300mm FROM ALL OTHER BURIED UTILITIES

TYPICAL TRENCH DETAIL - SINGLE  
SCALE: NTS

ELECTRICAL SPECIFICATIONS:

- SCOPE OF WORK**
  - PROVIDE ALL NECESSARY LABOUR, MATERIAL, TOOLS, TRANSPORTATION, SERVICES AND FACILITIES REQUIRED FOR THE COMPLETE ELECTRICAL INSTALLATION AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
  - PROVIDE ALL NECESSARY LABOUR, MATERIALS, EQUIPMENT, DEVICES AND APPARATUS NOT MENTIONED IN THE SPECIFICATIONS, OR SHOWN ON THE DRAWINGS AS REQUIRED FOR THE COMPLETE ELECTRICAL INSTALLATION.
- CODE, RULES AND REGULATIONS**
  - ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE.
  - PROVIDE ALL NECESSARY MATERIAL AND LABOUR REQUIRED TO MEET THE REQUIREMENTS OF THESE CODES, RULES AND REGULATIONS EVEN THOUGH THE WORK MAY NOT BE SHOWN ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS.
- PERMITS AND FEES**
  - OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE ELECTRICAL INSTALLATION.
- CO-OPERATION WITH OTHER TRADES**
  - CHECK WITH OTHER TRADES TO AVOID DELAYS.
- APPROVAL OF MATERIALS**
  - ELECTRICAL EQUIPMENT SHALL BE NEW AND OF THE TYPE AND QUALITY SPECIFIED.
  - SHOP DRAWINGS FOR ELECTRICAL EQUIPMENT AS REQUIRED BY THESE SPECIFICATIONS SHALL BE SUBMITTED AND ACCEPTED BY THE ENGINEER.
- INSPECTION**
  - OBTAIN A CERTIFICATE OF INSPECTION AND APPROVAL FROM THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION OVER THE WORK. CERTIFICATE OF INSPECTION SHALL BE SUBMITTED TO THE ENGINEER ON COMPLETION OF THE WORK.
  - PROJECT HOLD POINTS FOR ENGINEER INSPECTION:
    - PRIOR TO COVERING ANY UNDERGROUND WORKS.
    - PRIOR TO ENERGIZATION.
  - CONTRACTOR SHALL GIVE MINIMUM TEN (10) BUSINESS DAYS NOTICE TO ENGINEER FOR ALL INSPECTION HOLD POINTS LISTED ABOVE.
- CLEAN UP**
  - REMOVE ALL DEBRIS FROM THE SITE AS IT OCCURS, AND DO NOT ALLOW TO ACCUMULATE.
  - TOUCH UP WITH MATCHING PAINT ANY EQUIPMENT THAT HAS BEEN DAMAGED DURING CONSTRUCTION.
- GUARANTEE**
  - THE SATISFACTORY OPERATION OF ALL WORK AND APPARATUS INCLUDED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE.
  - REPLACE FORTHWITH, AT NO ADDITIONAL COST TO THE OWNER, ANY PART WHICH MAY PROVE TO BE DEFECTIVE WITHIN A PERIOD OF TWELVE MONTHS AFTER THE FINAL ACCEPTANCE OF THE COMPLETE BUILDING, PROVIDED THAT SUCH FAILURE IS NOT DUE TO ANY IMPROPER USAGE OR ORDINARY WEAR AND TEAR.
  - NO CERTIFICATE GIVEN, PAYMENT MADE, PARTIAL OR ENTIRE USE OF THE EQUIPMENT BY THE OWNER, SHALL BE CONSTRUED AS ACCEPTANCE OF DEFECTIVE WORK.

- CONDUIT AND RACEWAY**
  - CONDUIT IN DIRECT CONTACT WITH EARTH TO BE RIGID PVC TYPE.
  - CONDUIT SYSTEMS SHALL BE ELECTRICALLY CONTINUOUS THROUGHOUT. INSTALL CODE SIZED, INSULATED, COPPER, GREEN GROUNDING CONDUCTOR IN ALL CONDUIT RUNS PULLED WITH PHASE AND/OR NEUTRAL CONDUCTORS.
  - LOCATIONS OF CONDUIT RUNS SHALL BE PLANNED IN ADVANCE OF THE INSTALLATION AND COORDINATED WITH THE OTHER INFRASTRUCTURE IN THE SAME AREAS AND SHALL NOT UNNECESSARILY CROSS OTHER CONDUITS OR PIPE.
  - RACEWAYS SHALL BE JOINED USING SPECIFIED COUPLING OR TRANSITION COUPLINGS WHERE DISSIMILAR RACEWAY SYSTEMS ARE JOINED.
  - CONDUITS SHALL BE SECURELY FASTENED TO CABINETS, BOXES, AND GUTTERS USING TWO LOCKNUTS AND AN INSULATING BUSHING OR SPECIFIED INSULATING CONNECTORS. INSTALL GROUNDING BUSHINGS OR BONDING JUMPERS ON ALL CONDUITS TERMINATING AT CONCENTRIC KNOCKOUTS.
  - CONDUIT TERMINATIONS EXPOSED AT WEATHERPROOF ENCLOSURES AND CAST OUTLET BOXES SHALL BE MADE WATERTIGHT USING SPECIFIED CONNECTORS AND HUBS.
- CABLE AND WIRE**
  - CONDUCTORS SHALL NOT BE INSTALLED IN CONDUIT UNTIL ALL WORK OF ANY NATURE THAT MAY CAUSE DAMAGE IS COMPLETED. CARE SHALL BE TAKEN IN PULLING CONDUCTORS THAT INSULATION IS NOT DAMAGED. U.L. AND C.S.A. APPROVED NON-PETROLEUM BASE AND INSULATING TYPE PULLING COMPOUND SHALL BE USED AS NEEDED.
  - ALL CABLES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND WARRANTY.
  - ALL ASPECTS OF SPLICING AND TERMINATING SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS PUBLISHED PROCEDURES.
  - MAKE UP ALL SPLICES IN OUTLET BOXES WITH CONNECTORS AS SPECIFIED HEREIN WITH SEPARATE TAILS OF CORRECT COLOR TO BE MADE UP TO SPLICE. PROVIDE AT LEAST 6" (150mm) OF TAILS PACKED IN BOX AFTER SPLICE IS MADE UP.
  - ALL WIRE AND CABLE IN PANELS, TERMINAL CABINETS AND EQUIPMENT ENCLOSURES SHALL BE BUNDLED AND CLAMPED.
  - ALL WIRE AND CABLE INSTALLED UNDERGROUND SHALL BE MINIMUM WET LOCATION RATED.
- RECORD DRAWING**
  - ELECTRICAL CONTRACTOR TO PROVIDE AS-BUILT MARKUPS TO ENGINEER FOR RECORD DRAWINGS.
  - AS-BUILT MARKUPS ARE TO INDICATE THE FOLLOWING ITEMS:
    - ALL REVISIONS TO DRAWINGS FROM SITE INSTRUCTIONS AND CHANGE ORDERS ARE TO BE INDICATED.
    - DEVICE LOCATION AND CIRCUITING WHERE DIFFERS FROM ORIGINAL DRAWINGS.
    - LUMINAIRE TYPE, LOCATION, CIRCUITING AND CONTROL WHERE DIFFERS FROM ORIGINAL DRAWINGS.
    - ALL ABANDONED JUNCTION BOXES AND CONDUITS.



JUNCTION BOX NOTES:

- TWO SMALL ROUND JUNCTION BOXES INSTALLED WITH ONE INVERTED UNDER THE OTHER.
- PROVIDE BONDING FOR STEEL LID.
- JUNCTION BOX IS TO BE WEST COAST ENGINEERING 25020 OR APPROVED EQUAL.
- CONDUIT IS TO BE RUN AT A DEPTH OF 900mm AND HAVE A GENTLE RISE UP FOR ENTRY INTO JUNCTION BOX.

JUNCTION BOX DETAIL  
SCALE: NTS

Rev	Date	Description	Drawn	Design	App'd
0	2024-10-04	ISSUED FOR TENDER	MA	EH	TY
PA	2024-09-05	ISSUED FOR REVIEW	EH	EH	TY

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ORIGINAL DWG SIZE: ANSI D (22" x 34")
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12 - 556 North Nechako Road,  
Prince George BC V2K 1A1  
Tel. 250 561 2229

PERMIT TO PRACTICE
McElhanney Ltd.
PERMIT NUMBER: 1003299
Engineers and Geoscientists of British Columbia

NOT FOR  
CONSTRUCTION

Approved Sealed

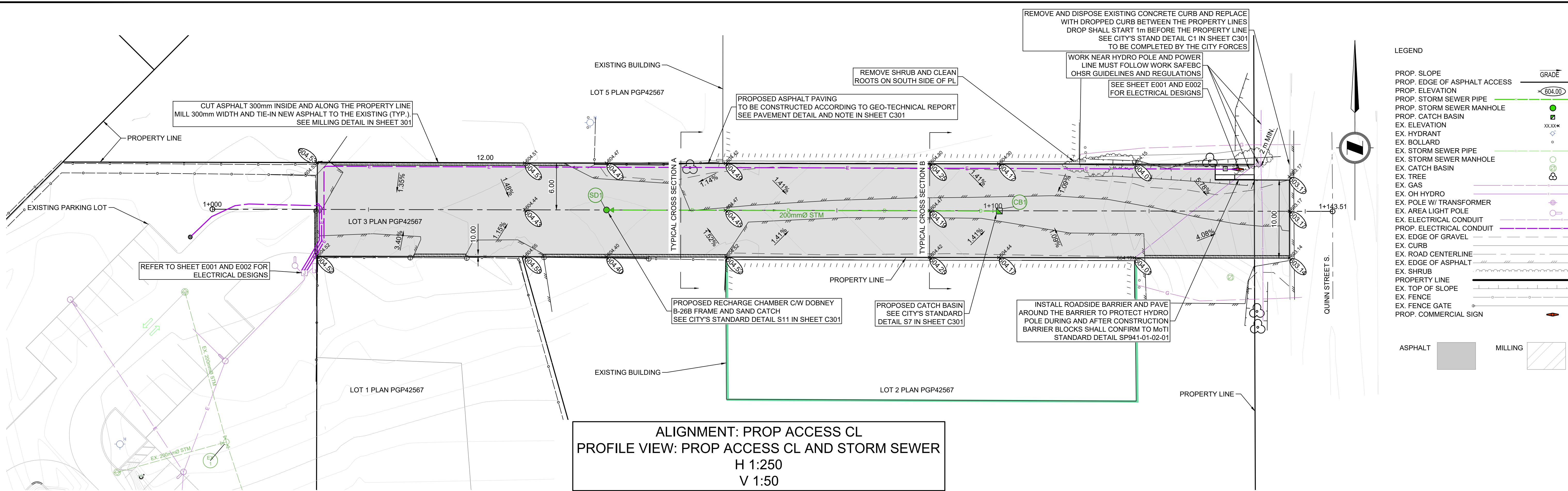
REGIONAL DISTRICT OF FRASER - FORT GEORGE
155 GEORGE STREET PRINCE GEORGE BC V2L 1P8
PSOB ACCESS LANE RE-SURFACING ELECTRICAL DETAILS

Drawing No.	E002
Project Number	2341-21215-12
Rev.	0

DESTROY ALL PRINTS BEARING PREVIOUS REVISION



DATE: 2024-10-09 14:35 FILE: X:\2341\Projects\2341-21215-12 RDFFG PSOB Access Surfacing\07\_DRAWINGS\04\_Models\2341-21215-12\_CO\_Base\_2.dwg McElhanney ANS D - 2024-03-01



LEGEND

PROP. SLOPE  
PROP. EDGE OF ASPHALT ACCESS  
PROP. ELEVATION  
PROP. STORM SEWER PIPE  
PROP. STORM SEWER MANHOLE  
EX. ELEVATION  
EX. HYDRANT  
EX. BOLLARD  
EX. STORM SEWER PIPE  
EX. STORM SEWER MANHOLE  
EX. CATCH BASIN  
EX. TREE  
EX. GAS  
EX. OH HYDRO  
EX. POLE W/ TRANSFORMER  
EX. AREA LIGHT POLE  
EX. ELECTRICAL CONDUIT  
PROP. ELECTRICAL CONDUIT  
EX. EDGE OF GRAVEL  
EX. CURB  
EX. ROAD CENTERLINE  
EX. EDGE OF ASPHALT  
EX. SHRUB  
PROPERTY LINE  
EX. TOP OF SLOPE  
EX. FENCE  
EX. FENCE GATE  
PROP. COMMERCIAL SIGN

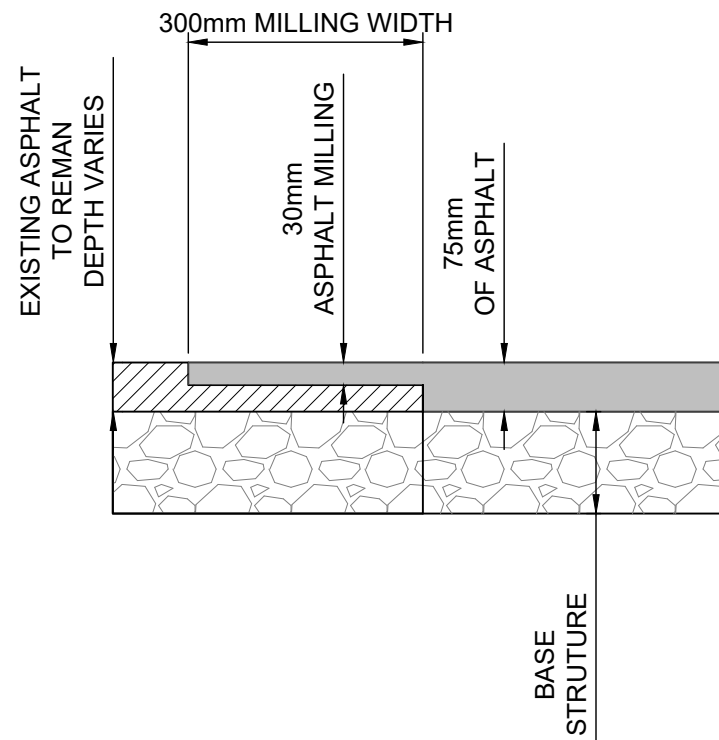
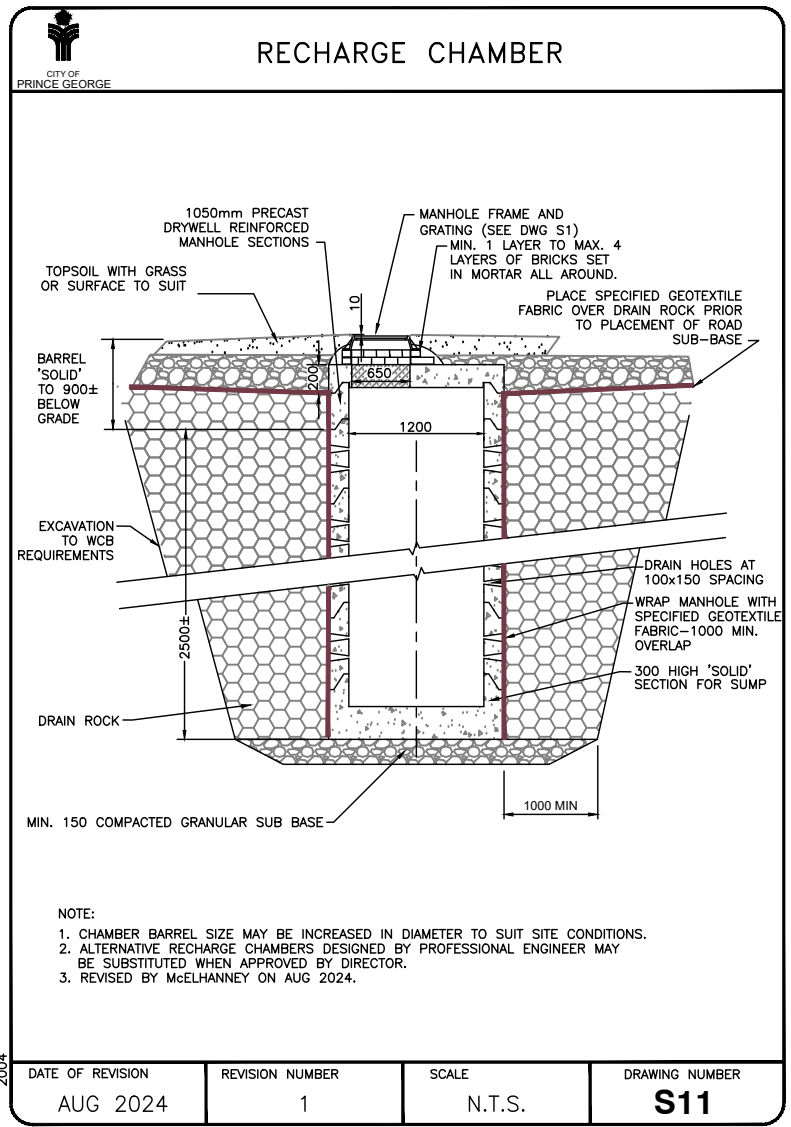
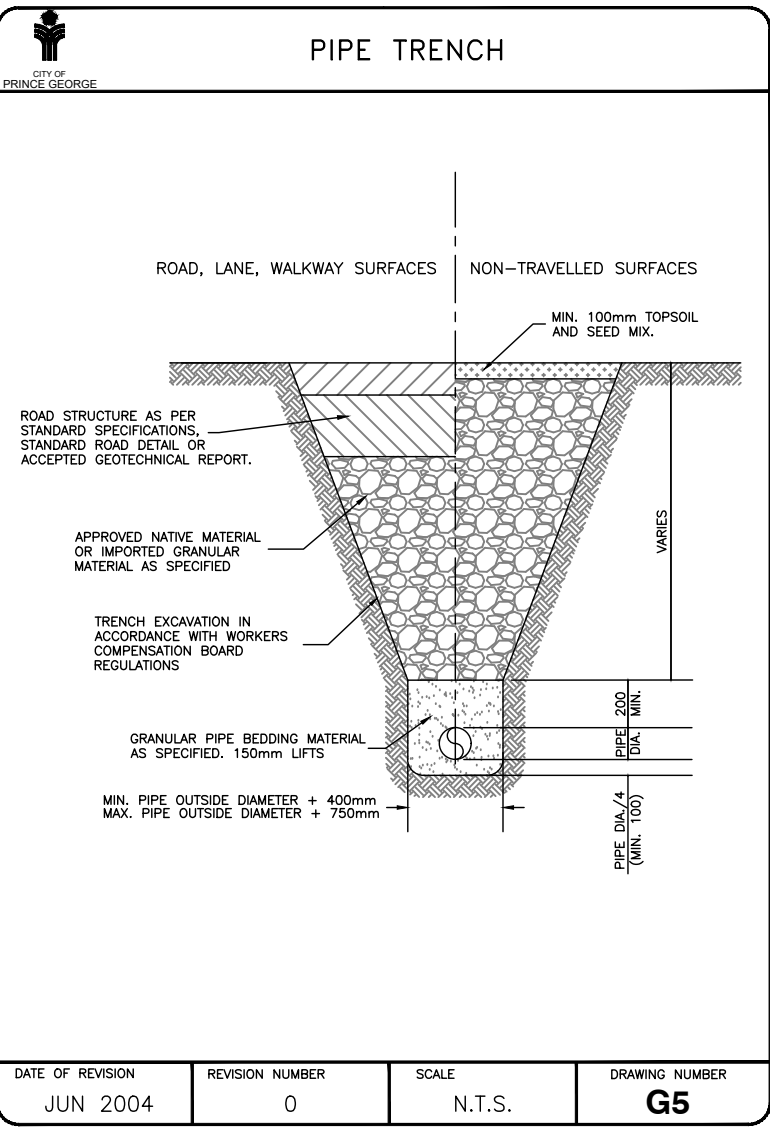
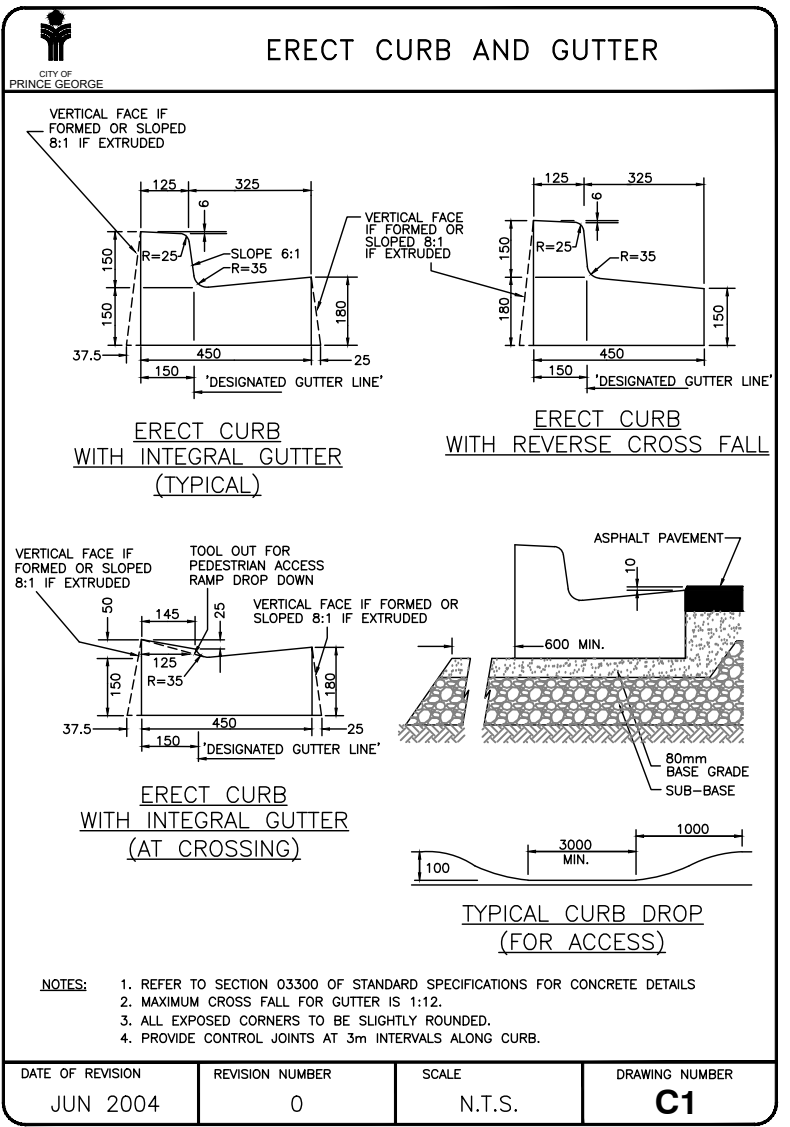
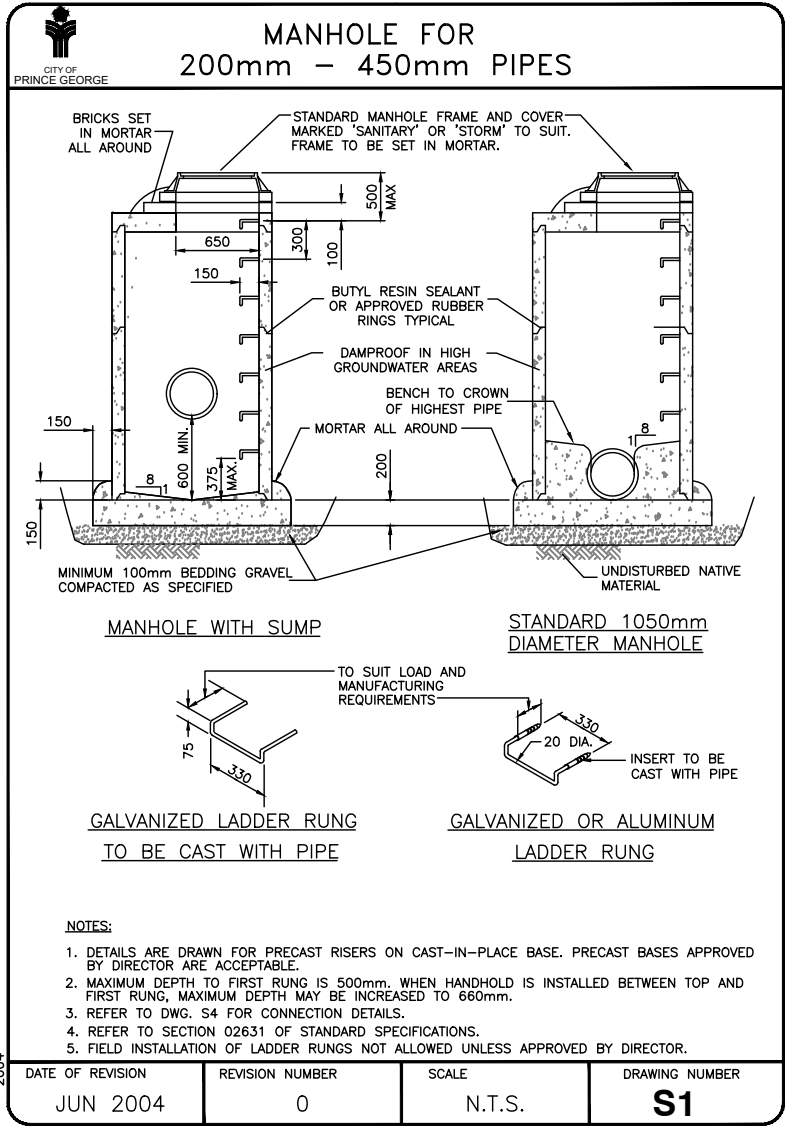
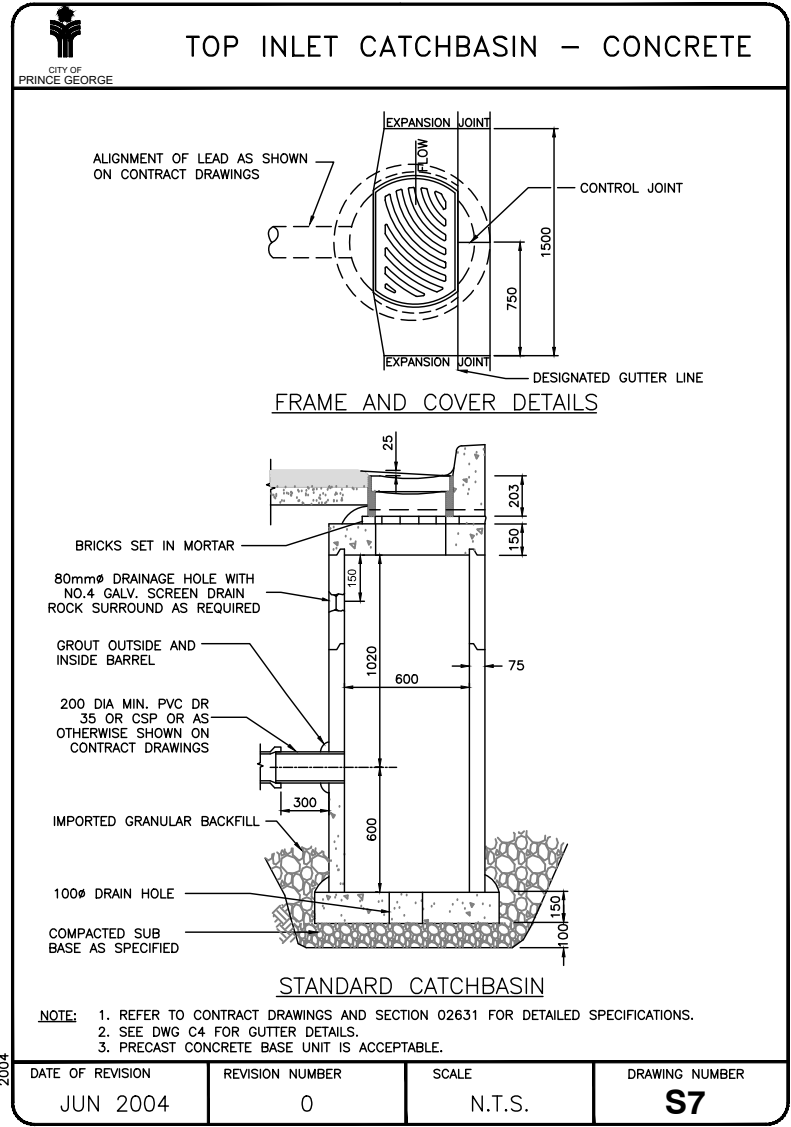
ASPHALT  
MILLING

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<div>1 2024-10-04 ISSUED FOR TENDER JX JX EH</div> <div>0 2024-04-05 ISSUED FOR TENDER JX JX/EH RT</div> <div>Rev Date Description Drawn Design App'd</div>															



McElhanney ANS D - 2024-02-05

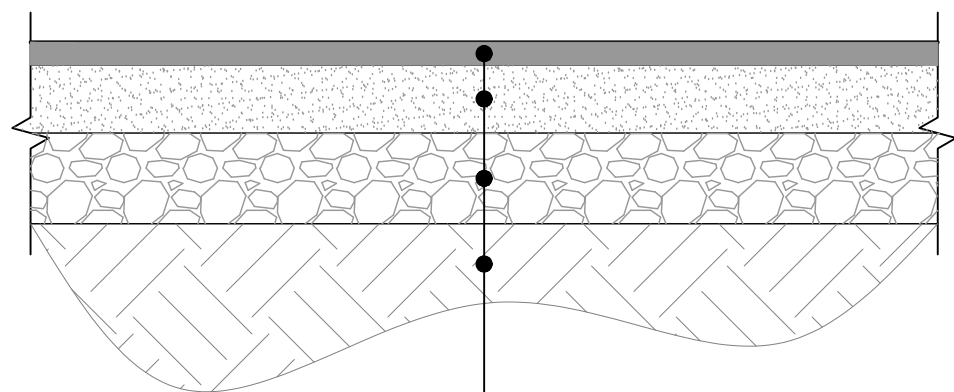
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ROAD MILLING SECTION

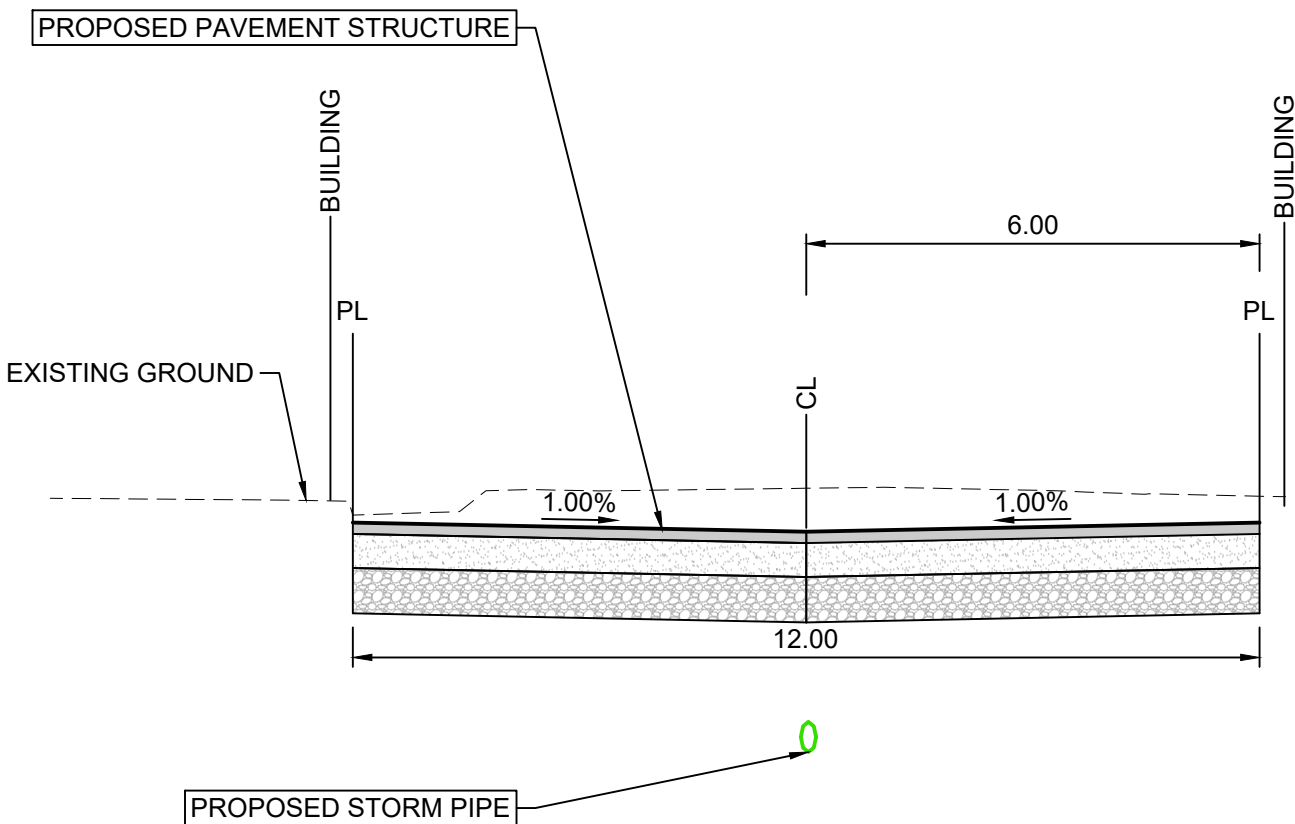
SCALE 1:10

- NOTE:
- AGGREGATE GRADATION SPECIFICATION TO FOLLOW GEO-TECH REPORT SECTION 4.1
  - PAVEMENT STRUCTURE CONSTRUCTION TO FOLLOW SPECIFICATIONS IN THE GEO-TECH REPORT SECTION 4



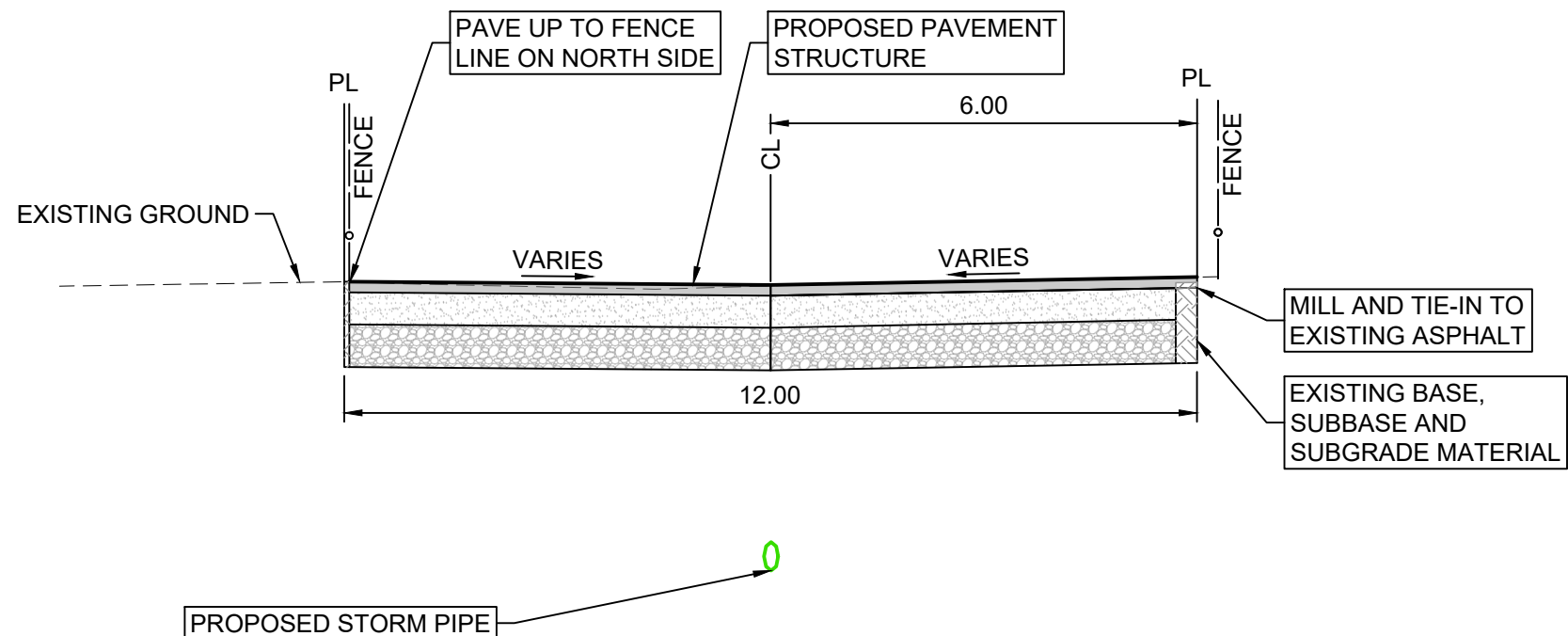
PAVEMENT STRUCTURE DETAIL

SCALE 1:25



TYPICAL CROSS SECTION B

SCALE H: 1:100  
SCALE V: 1:50



TYPICAL CROSS SECTION A

SCALE H: 1:100  
SCALE V: 1:50

## SURVEY NOTES:

- FIELD SURVEY PERFORMED JANUARY 8TH, 2024 BY McELHANNEY LTD., J. GAYOWSKI AND L. PATENAUDE.
- COORDINATES ARE UTM NAD 83, ZONE 10 GRID VALUES. ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM CITY OF PRINCE GEORGE CONTROL MONUMENT 85H1165.  
N: 5972801.896  
E: 513291.890  
ELEV: 600.833
- CONTOUR INTERVAL: MAJOR 0.5m MINOR 0.1m
- ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE NOTED.
- LOCATIONS OF UNDER GROUND UTILITIES SHOWN ON PLAN ARE APPROXIMATE ONLY. INFORMATION MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR SHALL EXPOSE LOCATIONS OF ALL EXISTING UTILITIES AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.
- LOCATE ALL GAS LINES WITHIN THE LIMIT OF CONSTRUCTION PRIOR TO EXCAVATION. IF THE GAS LINE IS WITHIN THE DITCHED AREA, MAINTAIN MINIMUM COVER (600mm FOR 100mm Ø AND 750mm FOR 150mm Ø) AND POSITIVE DRAINAGE. NOTIFY ENGINEER IF THERE IS A CONFLICT BETWEEN THE DRAINAGE AND MINIMUM COVER.

## GENERAL NOTES

- CHECK AND VERIFY ALL DIMENSIONS BEFORE COMMENCING ANY WORK. NOTIFY THE DESIGNER OF ANY ERRORS OR OMISSIONS.
- THE CONTRACTOR SHALL COMPARE ALL RELATED DRAWINGS PRIOR TO BEGINNING CONSTRUCTION. ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES OR INCONSISTENCIES ARE FOUND ON DESIGN DRAWINGS.
- ALWAYS READ WRITTEN DIMENSIONS. DO NOT SCALE OFF THE DRAWINGS OR CAD FILES.
- CONDUIT ROUTING SHOWN IS FOR INTENT ONLY. FINAL CONDUIT ROUTING MAY BE ADJUSTED TO SUIT SITE CONDITIONS.
- ONLY BUILD FROM ISSUED FOR CONSTRUCTION DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE CORRECTION OF DEFICIENCIES, AS DIRECTED BY THE ENGINEER.
- REVIEW OF WORK, OR ANY PORTION OF WORK, BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY AND OBLIGATION TO COMPLY WITH CONTRACT DRAWINGS AND SPECIFICATIONS.
- ALL WORKS SHALL MEET OR EXCEED THE REQUIREMENTS OUTLINED IN SCHEDULE C, INFRASTRUCTURE SPECIFICATIONS, AND SCHEDULE D, STANDARD INFRASTRUCTURE DRAWINGS OF THE CITY OF PRINCE GEORGE SUBDIVISION AND DEVELOPMENT SERVICING BYLAW 8618, 2014.
- ALL WORKS SHALL BE PERFORMED IN ACCORDANCE WITH ALL CITY OF PRINCE GEORGE BYLAWS FOR NOISE, HOURS OF WORK AND SOIL REMOVAL.
- ALL WORK SHALL BE CONDUCTED FOLLOWING WORKSAFE BC OHSR
- PAVEMENT STRUCTURE TO BE CONSTRUCTED ACCORDING TO GEO-TECHNICAL REPORT PROVIDED BY SOILTECH REV1 ON JAN 26, 2024
- ASPHALT MATERIAL, BASE MATERIAL AND SUBBASE MATERIAL TO CONFIRM TO THE SPECIFICATIONS IN THE GEO-TECHNICAL REPORT
- USE SAND CATCH IN NEW AND EXISTING STORM MANHOLES, CATCH BASIN AND RECHARGE CHAMBER TO PREVENT SEDIMENT ENTERING THE STORM SYSTEM
- CLEAN AND REMOVE ANY SEDIMENT OR DEBRIS FROM MANHOLES, CATCH BASIN, AND EXISTING RECHARGE CHAMBER AFTER CONSTRUCTION

## ENVIRONMENTAL

- THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING, INSTALLING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES.
- ALL WORK SHALL BE DONE IN A MANNER THAT WILL NOT RESULT IN DEPOSITION OF DEBRIS, SOIL, OR OTHER MATERIAL DELETERIOUS TO FISH, IN ANY WATERCOURSE.
- RECONSTRUCT AND RE-VEGETATE DISTURBED SURFACES WITH LOCAL, WEED FREE SEED MIX TO THEIR ORIGINAL CONDITION AS SOON AS POSSIBLE.
- LEAVE SILT FENCE AND OTHER EROSION CONTROL MEASURES IN PLACE, AS APPROPRIATE, UPON COMPLETION OF CONSTRUCTION. EROSION CONTROL INSTALLATIONS ARE NOT TO BE REMOVED UNTIL VEGETATION HAS HAD A CHANCE TO BECOME RE-ESTABLISHED.

## BACKFILL AND COMPACTION

- THE OWNER HAS ENGAGED SOILTECH TO MONITOR TRENCH BACKFILL COMPACTION AND PAVEMENT CONSTRUCTION. SOILTECH WILL CONDUCT COMPACTION TESTS IN ACCORDANCE WITH THE SPECIFICATIONS OUTLINED IN THE GEOTECHNICAL DESIGN MEMO DATED MARCH 21, 2024, ENSURING THAT THE MATERIAL AND COMPACTION ADHERE TO THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL DESIGN MEMO DATED JANUARY 28, 2024.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH SOILTECH IN ADVANCE AND PROVIDING SUFFICIENT NOTICE BEFORE THE MATERIAL IS READY FOR TESTING. IT IS ANTICIPATED THAT BOTH THE SIEVE ANALYSIS TEST AND PROCTOR DENSITY TEST WILL NECESSITATE A MINIMUM OF 4 BUSINESS DAYS. MATERIAL SHOULD NOT BE UTILIZED UNLESS IT MEETS THE SPECIFIED REQUIREMENTS. A MINIMUM OF 48 HOURS' NOTICE MUST BE GIVEN TO SOILTECH FOR FIELD COMPACTION TESTS. NO PAYMENT CLAIMS WILL BE ACCEPTED FOR FAILED MATERIALS OR ANY REQUIRED RE-WORK OF COMPACTION. ADDITIONALLY, NO ADDITIONAL CONSTRUCTION TIME WILL BE GRANTED FOR ANY DELAY ARISING FROM MATERIAL TESTING, COMPACTION TESTS, OR REQUIRED RE-WORK OF COMPACTION.

Rev	Date	Description	App'd	Drawn	Design	App'd
1	2024-10-04	ISSUED FOR TENDER		JX	JX	EH
0	2024-04-05	ISSUED FOR TENDER		JX	JX/EH	RT

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BENCHMARK ALL ELEVATION REFER TO CONTROL MONUMENT: 85H1165 LOCATED AT: N: 5972801.896; E: 513291.890 ELEVATION: 600.833
AS NOTED
ORIGINAL DWG SIZE: ANSI D (22" x 34")

 <b>McElhanney</b>
Suite 12 556 North Nechako Road Prince George BC Canada V2K 1A1 T 250 561 2229

PERMIT TO PRACTICE
McElhanney Ltd.
PERMIT NUMBER: 1003299
Engineers and Geoscientists of British Columbia


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REGIONAL DISTRICT OF FRASER FORT GEORGE 155 GEORGE STREET PRINCE GEORGE, BC V2L 1P8
RDFFG PSOB ACCESS RE-SURFACING
NOTES AND DETAILS

Drawing No.	C301
Project Number	2341-21215-12
Rev.	1

DESTROY ALL PRINTS BEARING PREVIOUS REVISION



# Geotechnical Design Memo



**SoilTech**  
Consulting Ltd

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hans@soiltech.ca

**To:** Ethan Hoffman, ASCT, BCME, McElhanney  
**From:** Hans Jorgensen, P. Eng.  
**Date:** March 21, 2024  
**Memo No.** GD02  
**Project No.:** 20-H-015  
**Project:** Regional District of Fraser-Fort George Public Service Building  
**Re:** Access Road Construction Review Requirements and Frequencies

In our previous design memo, GD01, we provided geotechnical recommendations for the new access road. The recommendations included several items for geotechnical review and quality assurance during construction. We were asked to identify the key inspection items requiring review and/or testing by SoilTech, at what point the review or test is required, and the minimum frequencies.

Item	Review/Testing Required and Frequency
Storm Service Installation and Trench Backfill	<ul style="list-style-type: none"><li>Visual review of the completed excavation</li><li>Sample of backfill soil for review and standard proctor test during excavation stage</li><li>Compaction testing for subgrade backfill:<ul style="list-style-type: none"><li>At least 1 compaction test every 20 linear meters per lift</li><li>Testing may be reduced at SoilTech's discretion if an acceptable standard procedure for compaction is established</li></ul></li></ul>
Subgrade Preparation	<ul style="list-style-type: none"><li>Visual review of the subgrade cut surface prior to any fill placement or compaction</li><li>Proof roll of the subgrade surface</li><li>Visual review of any required subgrade sub-excavation</li><li>Compaction testing on subgrade fill if sub-excavation is required:<ul style="list-style-type: none"><li>At least 2 compaction tests every 20 linear meters</li></ul></li><li>Sample of backfill soil for review and standard proctor test if different than soil from the storm service backfill</li></ul>
Subbase Preparation	<ul style="list-style-type: none"><li>Sample of SGSB material for sieve analysis for approval prior to installation</li><li>Standard proctor test on approved material</li><li>Compaction tests at the top of subbase:<ul style="list-style-type: none"><li>At least 2 compaction tests every 20 linear meters</li></ul></li></ul>
Base Preparation	<ul style="list-style-type: none"><li>Sample of CBC material for sieve analysis for approval prior to installation</li><li>Standard proctor test on approved material</li><li>Compaction tests at the top of subbase:<ul style="list-style-type: none"><li>At least 2 compaction tests every 20 linear meters</li></ul></li></ul>
Asphalt Installation	<ul style="list-style-type: none"><li>Sample of asphalt during paving operation for Marshall analyses</li><li>Coring of the completed asphalt to collect samples for density and thickness: at least 1 core per 50 linear meters</li></ul>

This memorandum has been completed for the exclusive use of the recipient. We take not responsibly for any damages suffered from any use or reliance of information contained within this report by third parties or for use other than the intended purpose for the project described above.

If there are any questions or if additional information is required, please contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to be 'Hans Jorgensen', written in a cursive style.

Hans Jorgensen, P.Eng.

# Geotechnical Design Memo



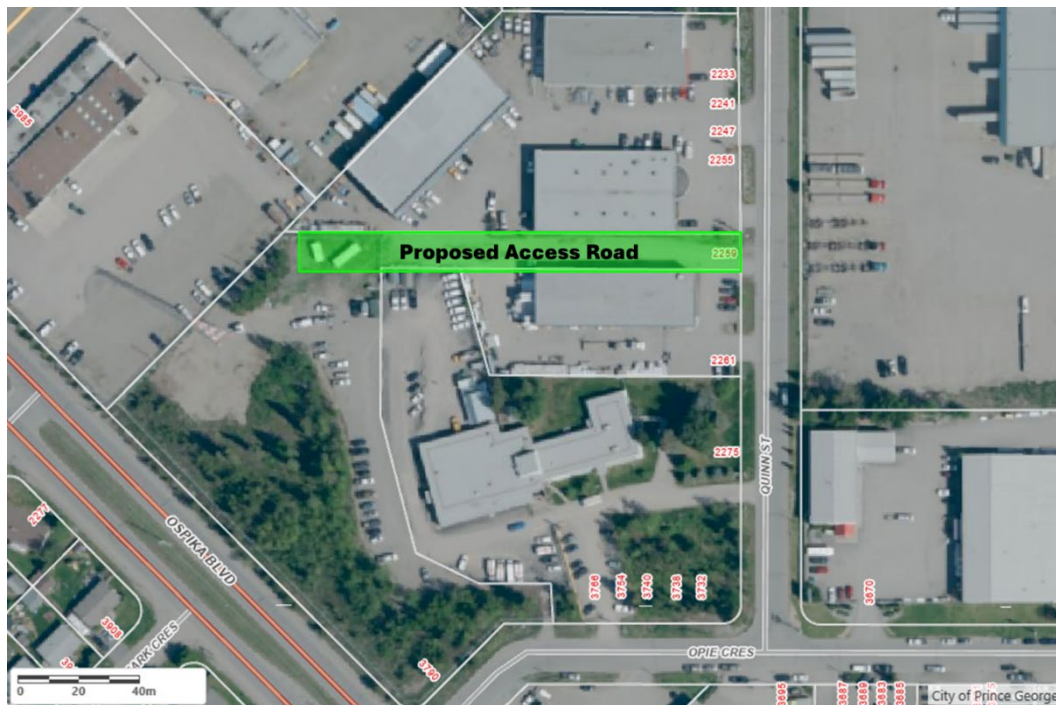
1215 Babine Road  
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**To:** Ethan Hoffman, ASCT, BCME, McElhanney  
**From:** Hans Jorgensen, P. Eng.  
**Date:** January 26, 2024  
**Memo No.** GD01  
**Project No.:** 20-H-015  
**Project:** Regional District of Fraser-Fort George Public Service Building  
**Re:** Pavement Structure for Access Road

## 1. Introduction

SoilTech was asked to review subsurface conditions in the proposed Quinn Street access road area to the building's parking area. McElhanney provided a geotechnical assessment for the building development. We reviewed the associated geotechnical technical memorandum<sup>i</sup> (McElhanney Memo) which contains a preliminary pavement design and details the natural subsurface conditions. We also reviewed the current site conditions and existing development in the area. Based in our findings we have confirmed the pavement structure design provided by McElhanney is adequate for proposed access road and have provided additional recommendations the road design and construction.

## 2. Background and Subsurface Conditions



The expected natural soil conditions generally consist of loose to compact gravel and sand of varying concentrations with trace amounts of fines (silt and clay). We suspect undocumented fill from past earthworks to be present in near the surface in areas. The fill likely consists of soil from the area and imported gravel used to construct the existing gravel surfaced roadway. The gravel exposed at the surface has a higher fines content than we recommend for pavement structure aggregates.

### 3. Discussion and Recommendations

Based on our findings, we consider the following items for the design and construction of the access road:

- The expected natural soil below the access road is gravel and sand with trace fines which will provide good support and subgrade drainage for the pavement structure.
- There is undocumented fill in areas which is expected to extend to a shallow depth. The existing gravel fill is expected to be unsuitable for pavement structure fill.
- The subgrade should be cut to the design elevation. The existing fill may extend below the design subgrade elevation but may be suitable to be left in place if it is free from deleterious material and adequately compacted. The subgrade should be evaluated by SoilTech to confirm the in situ soil will provide adequate support.
- The pavement structure recommended in the McElhanney Memo is adequate for the proposed road.
- The pavement structure should be constructed from aggregates and asphalt meeting our recommended specifications and be installed using best practices.

### 4. Pavement Structures

The site-specific traffic volumes are unknown, but we estimate the roadway will see up to 100 vehicles per day with at least half of the vehicles being heavy truck traffic. The heavy truck traffic will mostly be from delivery vehicles from the construction supply company that will share the access road. We evaluated the structure provided by McElhanney using the design methods and guidelines from the AASHTO 1993 Pavement Design Method and Ministry of Transportation and Infrastructure (MoTI) design guidelines Technical Circular T-01/15. The recommended pavement structures for the access road detailed in Table 1.

Table 1. Recommended Pavement Structures

Pavement Component	Layer Thickness
<b>Class 1 Medium Mix Asphalt</b>	75 mm
<b>Crushed Base Coarse (CBC)</b>	225 mm
<b>Select Granular Subbase (SGSB)</b>	300 mm
<b>Total</b>	600 mm

The pavement structure's design relies on good subgrade support. Section 4.3 outlines best practices for preparing the subgrade to obtain the necessary support. Use aggregates meeting the requirements detailed in Section 4.1 and asphalt meeting the specifications detailed in the current MoTI Standard Specifications for Highway Construction. We recommend extending the pavement structures below any curbs and sidewalks.

#### 4.1. Aggregates

Table 2. Aggregate Gradation Specifications

Particle Size (mm)	Percent Passing	
	CBC <sup>1</sup>	SGSB
75	—	95 – 100
37.5	—	—
25	100	—
19	80 – 100	35 – 100
9.5	50 – 85	—
4.75	35 – 70	15 – 60
2.36	25 – 50	—
1.18	15 – 35	—
0.300	5 – 20	3 – 15
0.075	0 – 5	0 – 5

<sup>1</sup> CBC to have minimum 60% one-face fracture by mass

Aggregates should be of sufficient quality to withstand the destructive effects of exposure to freeze-thaw, water, and general construction (i.e. handling, placing, grading, packing, etc.). Use aggregates that meet the Aggregate Quality specifications detailed in Section 202.04 of the current MoTI Standard Specifications for Highway Construction. For CBC use a crushed material with a minimum 60% one-face fracture by mass on particles larger than 4.75 mm. The SGSB can be a processed or pit run gravel. Gradation specifications for the aggregates can be found in Table 2.

#### 4.2. Pavement Structure Construction

We recommend the following best practices and specifications for construction of the pavement structure:

- Install the pavement structure over the prepared subgrade.
- Place SGSB and CBC in a maximum 300 mm thick layers.
- Moisture condition (i.e. add water or dry) the soil where needed to bring it to the optimum moisture content for compaction.
- Compact each layer to 100% SPD.
- Proof roll the CBC layer and repair any soft areas before placing any concrete or asphalt.
- Place the asphalt surface as per the supplier's recommended procedures and compact it to a minimum average degree of compaction of 97% when comparing the in situ density to the measured 75 Blow Marshall briquette density for the mix with no single measured location less than 95%.

#### 4.3. Subgrade Preparation

The prepared subgrade should consist of component natural soil or adequately compacted fill of a similar consistency. We recommend the following best practices and specifications to prepare the subgrade:

- Remove any loose fill, organic soil, soft wet fine-grained soil, and soil mixed with deleterious materials from the subgrade area. Extend the excavation beyond the edges of the pavement equal to the depth of the fill required below the pavement.
- Proof roll the subgrade excavation and repair any soft areas prior to placing subgrade fill.

- Raise the grade of low areas to the design subgrade elevation with compacted fill consisting of soil with similar properties and gradations to the surrounding subgrade soils.
- Place the fill material in uniform layers not exceeding 200 mm for fine-grained soil and 300 mm for granular soil.
- Moisture condition (i.e. add water or dry) the soil where needed to bring it to the optimum moisture content for compaction.
- Compact fill layers to 97% SPD and the final 300 mm of subgrade fill to 100% SPD.
- Crown the subgrade at a minimum 2% slope away from the road centerline.
- Proof roll the prepared subgrade surface and repair any soft areas prior to installing the pavement structure.

## 5. Review and Quality Assurance

This assessment and our recommendations are based on preliminary plans and conversations with the McElhanney. The final design drawings should be reviewed by SoilTech to confirm the intentions of the geotechnical design recommendations included in this report have been incorporated. Subsurface conditions should be confirmed during construction. If the conditions (i.e., soil, groundwater, etc.) encountered during construction differ from those in the assessment they should be reviewed as alternate or additional recommendations may be required.

During the subgrade preparation and construction of the pavement structure have SoilTech review subgrade excavations, proof rolls, fill materials, fill placement and compaction. Depending on weather and site conditions, materials may need to be placed in smaller lift thicknesses, dried, or have water added to achieve recommended degree of compaction. Testing should be completed on subgrade fill, pavement structure layers and the materials used to confirm specifications are met.

## 6. Closure

This report has been completed for the exclusive use of the recipient. We take not responsibly for any damages suffered from any use or reliance of information contained within this report by third parties or for use other than the intended purpose for the project described above. If there are any questions or if additional information is required, please contact the undersigned.

Sincerely,

Hans Jorgensen, P.Eng.

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<sup>i</sup> (August 8, 2019) Preliminary Geotechnical Assessment, Opie Crescent Building (OP1), McElhanney, File No. 2341-02750-03