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ADDENDUM 3

RFP: Project No. 6776 and 6777 Stormwater System

Replacement

DATE OF ADDENDUM: February 18, 2025

DATE OF RFP ISSUE: January 22, 2025

RFP SUBMISSION: Revised to February 26, 2025, 3:00pm PST.

Questions and Answers:

- Q: On sheet C601 of the Plan of Construction Operations there is note regarding traffic control at Kittyhawk and Willingdon during construction hours in zones 1,2,3 and 4. Please confirm that traffic control is required throughout the duration of construction in these zones.
 A: Traffic controller for C6777 zones 1 – 4 will be required only when there is construction traffic expected at Kittyhawk and Willingdon Road.
- Q: On Sheet C601 of the Plan of Construction Operations note 9 states Contractor responsible for providing appurtenances for temporary works such as barricades and lighting, on sheet C604, section a transitional surface detail there is a note stating YYJ Supplied low profile airport Barricade. Please clarify that the low-profile barricades with steady burn red lights will be provided by YYJ not the contractor. Please also confirm who is responsible for set-up and tear down the low-profile barriers. Assume the contractor is responsible for all other barricades and lighting required for the work excluding the low-profile barricades.
 A: Victoria Airport Authority will supply low-profile airport barricades to contractor. The contractor is responsible for setting up and tearing down all barricades, including the low-

profile barriers supplied by VAA. Note 9 refers to other barricades and lighting, which will be the responsibility of the contractor.

- Q: Please refer to project 6777, sheet C202, Existing MH D2316 to Proposed manhole D2011 is connected by 250mm PVC. There does not appear to be a pay item for the 250mm PVC connection, please clarify how this will be paid.
 A: This is a typo. The pipe should be 300mm concrete as shown on project 6777, sheet C201. See revised 6777, sheet C202 Revision E under this addendum.
- Q: If contaminated soils test results come back higher than acceptable at southern Vancouver Island disposal facilities and materials are required to be transported to the northern island or mainland for disposal will a change be issued to cover the cost for transport and disposal?
 A: See the revised Form of Tender Appendix 1 Schedule of Quantities and Prices that were issued under Addendum 2. Tenderers shall provide unit prices for allowance items under different contaminated soil categories.
- Q: The soils test report by McElhanney has wording that suggests it is not suitable for offsite materials disposal, we will be required to complete our own testing for offsite disposal, this will delay the start of the project, will the owner or McElhanney consider supplying appropriate reporting and testing for off-site disposal prior to the award of the contract?
 A: The soil test report indicated was only in an area near the landfill. We will not supply any reports and testing for off-site disposal.
- Q: What is included in SOQ items 1.03 Miscellaneous removals?
 A: Miscellaneous removals will include removal for items not identified elsewhere in the SOQ, which can include culvert or pipe removal and disposal, fencing, etc., whether or not they are identified in the contract drawings. See Section 01 11 00 SS Item 1.3 Miscellaneous Removal.
- 7. Q: Will all trees noted for removal be left at stump height by YYJ crews?A: That is correct. The contractor will then clear and grub the stump and other remaining clearing that is needed for pipe installation.
- 8. Q: Do you have any additional information regarding the existing D2733X pipe (zone 2) to share? Pipe size, depth, pipe type (concrete or PVC), any manholes along the pipe that needs to be disposed?
 A: See CCTV inspection report that is attached to this Addendum 3.
- Q: For concrete storm pipes, please confirm ASTM C67 class 3 reinforced concrete pipes are acceptable to be used on this project.
 A: All pipes shall be Class III ASTM C76, except for the pipes on the airside. See the revised Form of Tender (FoT) Appendix 1 Schedule of Quantities and Prices and C6777 Drawings C201 C203.
- 10. Q: Schedule of quantities for project no. 6776 & 6777 is calling for 40 LM of 750mm concrete pipe from headwall D2717 to headwall D2718. On drawing C203, this quantity is 10.15m. This only becomes 40 LM if pipe is being measured from manhole D2333 to headwall D2718. Please advise if the pipe quantity from manhole D2333 to headwall D2716 belongs to project no. 6776 and 6777 or needs to be added to the optional work?

A: See the corrected Schedule of Quantities and Prices Category 6776 and 6777 (D2008X only) under Item 33.07 with the revised description.

11. Q: Since it was determined that VAA will perform tree removals prior to commencement of the works, could you please confirm that there will be no need to hire an arborist and prepare a tree management plan.

A: As part of the contract, the contractor will need to do tree protection, which would require arborist supervision.

12. Q: The shoring trench excavation on 6777 Drawing C502 shows a width of 2m for the 1050mm. The pipe OD is 1.3m. Mechanical compaction equipment (Jumping Jack) will be required to compact the pipe bedding due to the pipe size with requires 0.45m of space between the cage wall and the pipe the trench cage walls are 0.1m thick each and there need to be 0.1m of space outside each cage wall so that the cage can be installed this is a total trench width of 2.6m not 2m. Do we have to factor in restoration beyond the 2m into our pipe price or will we be paid for the additional asphalt tonnage under the pavement restoration unit rates? In our experience with this size and type of pipe this is the minimum width that is achievable.

A: See Revised 6777 Drawing C502 and Form of Tender Appendix 1 Schedule of Quantities and Prices for the impacted quantities.

- 13. Q: This is the same as question 12 above but for the 450mm pipe trench restoration due to the same reasons as above in our experience the minimum trench width for 450mm concrete pipe is 2.0m not 1.2m, do we have to factor in restoration beyond the 1.2m into our pipe price, or will we be paid for the additional asphalt tonnage under the pavement restoration unit rates?A: See Revised 6777 Drawing C502 and Form of Tender Appendix 1 Schedule of Quantities and Prices for impacted quantities.
- 14. Q: Q9 in addendum 2 regarding the contaminated soils states that McElhanney QEP will be onsite for the landfill areas to take samples. But for the rest of the project, we do not have to adequate soil test data to take the soil to approved fill facilities, is the soil sampling to meet the requirements for the landfill facilities on the contractor? As we do not have soil data for pricing purposes are we to assume that the soil is considered clean fill "RDL residential low-density land" that is what the local dump site considers clean fill.

A: That is correct. Contractor will be responsible for performing soil sampling for the remainder of the area. The intent is to reuse the existing material as much as we can as deemed suitable by geotechnical and QEP. See Environmental Management Plan Section 10.3. For the purpose of the pricing, the soil should be considered fill "RDL – residential low-density land".

15. Q: Can we propose an approved alterative product?

A: Yes, contractor is allowed to propose an alternative product. Please provide a description and unit rate cost saving as noted in the revised Form of Tender Appendix 1 - Schedule of Quantities and Prices. Bidders are allowed to submit product data with the tender submission. Products will be evaluated during tender evaluation.

16. Q: Could you please provide specs for the grout around the perimeter of Snaptite pipe (Slip lining)?

A: Successful contractor will provide Slip-Lining work plan as noted on 6777, C201 Note 2, which will include methodology and material submission (grout and snap-tite) for review and approval.

17. Q: Based on the soil & water management plan provided by McElhanney, the contractor needs to store, test and dispose of the contaminated water in the water treatment facilities. Under which pay item will this scope be paid?

A: If contaminated water is encountered, this line item will be paid under an allowance Item 31.08.4.

- 18. Q: Could you please provide a connection detail for the 300mm CB lead tying into the proposed 450 storm main on drawing C203?A: Successful contractor will submit connection details for the tie-in from 300mm and 450mm for review and approval. Prefabricated material can be proposed.
- 19. Q: In the environmental management plan provided with McElhanney, section 3.4, it specifies that "Work within 30 m of 7EN, TEN Creek will be completed pending DFO and provincial permits.". Also, section 8.2.1 for instream work specifies that "The least risk window for this region is August 15 to September 15, based on fish species present in 7EN, TEN Creek. Proposed works that are to be completed above the HWM of 7EN, TEN Creek (e.g., vegetation removal and excavation works) will likely not be required to adhere to the least risk timing window; however, scheduling will ultimately be determined through the permitting process (i.e., DFO RfR). Could you please provide the DFO permit?

A: MLWRS and DFO approvals can be found under Reference Document noted as "Section 11 Notification Terms and Conditions" and "DFO Avoid and Mitigate Letter".

- 20. Q: Airside Asphalt Tack Coat Section 32 12 13 SS: Asphalt tack coat has been requested to be placed on granular material, and heavy tack coat has been requested on granular base at a rate of 4.0l/m2 with a second coat at 1.0l/m2. Not only is the tack coat not generally placed on granular base, but the rate of application is extremely excessive. In addition, Item 3.2.9 under this section suggests that tack coat surfaces are only to be overlaid on the same day which is not possible. Prime coat could be used on granular base as a substitution but would need 24 hours to set. I suggest we can delete this section and allow tack coat to remain between asphalt lifts only. A: See revised Section 32 12 13 Airside Asphalt Tack Coat. Prime coat is not required.
- 21. Q: Special Procedures for Airport Facilities Section 01 35 13.13 Item 7. Can we have written confirmation that all three asphalt lifts for the taxiway can be completed in three days (one day for each lift)? One day (even in smaller sections), will not allow sufficient time for the asphalt to set and the completion of lap joints without complications. If the prime coat is substituted, we would need four days for completion. Please confirm.

A: Item 7 pertains to obtaining Engineer's written permission if the excavated area cannot be backfilled and sealed within one working day. See Q22 below on clarification for temporary asphalt. The duration of placing permanent asphalt lifts is at contractor's discretion as long as it meets the specifications. The intent is to complete all work within each zone, including permanent paving restoration, before moving to the next zone. Prime coat is not required.

22. Q: Addendum 2 – Question 11. It is noted that temporary hot mix asphalt shall be placed until permanent restoration can be completed. Does this temporary asphalt need to be flush with the existing? Or will a thinner base lift suffice to prevent FOD. Please confirm the thickness of temporary asphalt. A: The temporary asphalt is required to prevent FOD, and it does not have to be flush with existing as long as there is no aircraft or vehicle traffic is expected. The contractor shall place barriers along the trench to indicate height difference. A minimum of 40mm temporary asphalt is acceptable for airside, which will need to be milled prior to placing permanent asphalt restoration. Payment for temporary asphalt shall be incidental to supply and installation of storm pipes.

- 23. Q: The slip lining of culverts D2444X and D2455X is listed in the Schedule of Quantities, under MMCD 33 05 24 Cured In Place Pipe Liners. This specification is not applicable to slip lining; however, we understand there is not a current MMCD specification for this work. It is noted there are supplementary specifications listed in second column; however, we have been unable to locate these in the Supplementary Specifications provided in the tender documents. Please can you advise on the location of the specifications (if available), so we can ensure compliance? A: See Supplementary Specifications for clarification to measurement and payment for this line item. See Q16 above what is expected for the slip-lining work.
- 24. Q: Are any condition reports, inspection data, photos or videos available for the existing culverts D2444X & D2455X?A: See CCTV inspection reports that are attached as Reference Documents under Addendum 3.
- 25. Q: Could you please provide the water flow rates in Ten Ten creek during the month of August?
- A: We have peak design flow rates for the month of August, which are: 2-year flow = 1.2 m3/s; 10-year flow = 3.6 m3/s; and 100-year flow = 4.7 m3/s.
- 26. Q: Not all contaminated dump sites accept IL+ contaminated soil containing metals. Hence, the unit rate for IL+ with metals will be different than IL+ with Hydrocarbon and Chloride. Which classification should be considered while pricing IL+ disposal on the tender form.
 A: New classification for IL+ contaminated soil containing metals has been added under Section 31.08.1.1 on the Form of Tender Appendix 1 Schedule of Quantities and Prices.

Clarifications to RFP:

- 1. **Replace** the following documents (changes are noted in red on the attachments):
 - A. Table of Contents: adding a new reference document.
 - B. Invitation to Tenders: change in tender closing date.
 - C. Instruction to Tenderers: change in tender submission date.
 - D. FoT Appendix 1 Schedule of Quantities and Prices: changes to line items as responses to the Q&A above.
 - E. Form of Agreement:
 - \circ $\;$ Schedule 1: added document under Reference Files and new addenda
 - Schedule 2: revised drawings submitted under Addendum 3
 - F. Supplementary Specifications adding measurement and payment information under Section 33 05 24
 - G. Section 32 12 13 SS Airside Asphalt Tack Coat as response to Q20 above.

- Project No. 6777 C201 (Rev E): Revised pipe material as response to Q9 above.
- Project No. 6777 C202 (Rev E): Revised pipe material as response to Q3 and Q9 above.
- Project No. 6777 C203 (Rev E): Revised pipe material as response to Q9 above.
- Project No. 6777 C502 (Rev E): Revised trench detail as responses to Q12 and Q13 above.
- 2. Add the following documents under Refence Documents:
 - I. CCTV inspection reports for D2733X, D2444X and D2455X.

END OF ADDENDUM 3

Victoria Airport Authority

PROJECT TENDER DOCUMENT

Project No. 6776 and 6777 Stormwater System Replacement

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1 Instruction to Tenderers Part II refers to Master Municipal Construction Document 2019 Edition

Contract Drawings	Pages 1 te	o 25
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Reference Documents

- 1. Geotechnical Report
- 2. PFAS Document
- 3. Soil and Water Management Plan
- 4. Environmental Management Plan
- 5. Plan of Construction Operation
- 6. Utility and Permit Information Package
- 7. Section 11 Notification Terms and Conditions
- 8. DFO Avoid and Mitigate Letter 24-HPAC-01129
- 9. NAV Canada Letter
- 10. YYJ EPP Review Checklist
- 11. Final Cultural Monitoring procedures
- 12. Parking and Laydown Areas
- 13. CCTV inspection reports for D2733X, D2444X and D2455X.

PROJECT NO. 6776 AND 6777 INVITATION TO TENDERERS

Owner:	VICTORIA AIRPORT A	UTHORITY
	(NAME OF OWNER)	
Contract:	STORMWATER SYSTE (TITLE OF CONTRACT)	EM REPLACEMENT
Reference No.:	PROJECT No. 6776 an	d 6777
The Owner invites tenders for:	The supply of labour, m metres of storm sewers installation of new head facility located airside a	naterials, and equipment to replace roughly 480 and culvert rehabilitation with slip lining, including walls, catch basins and manholes, and treatment nd landside at Victoria International Airport.
	(BRIEF DESCRIPTION OF THE WORK)	
Digital (PDF) copies of the Tender Documents and Addenda are available to download at:	https://yyj.ca/partnering-	with-us/requests-for-proposals/
		· _ · ·
Tenders are scheduled to close:	Tender Closing	
	Time	3:00:00 p.m. local time
	Tender Closing Date:	February 26, 2025
	Fmail	admin@vvi.ca
		(ADDRESS WHERE TENDERS MUST BE SUBMITTED)
Name of Owner's Representative	Valentino Tjia, P.Eng., I	McElhanney Ltd.
-	604-551-6961 / vtjia@n	ncelhanney.com
	(РНОЛЕ) (E-Mail)	

Unit		TABLE OF CONTENTS
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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.)

(TO BE READ WITH "INSTRUCTIONS TO TENDERERS – PART II" CONTAINED IN THE 2019 EDITION OF THE PUBLICATION "MASTER MUNICIPAL CONSTRUCTION DOCUMENTS" SPECIFIED IN ARTICLE 2.2 BELOW)

- Owner: VICTORIA AIRPORT AUTHORITY (VAA) (NAME OF OWNER)
- Contract: STORMWATER SYSTEM REPLACEMENT (TITLE OF CONTRACT)
- Reference No.: PROJECT No. 6776 and 6777 (OWNER'S CONTRACT REFERENCE NO.)
- **1.0 Introduction** 1.1 These Instructions apply to and govern the preparation of tenders for this *Contract*. The *Contract* is generally for the following work:

The supply of labour, materials, and equipment to replace roughly 480 metres of storm sewers and culvert rehabilitation with slip lining, including installation of new headwalls, catch basins and manholes, and treatment facility located airside and landside at Victoria International Airport.

(BRIEF DESCRIPTION OF THE WORK)

1.2 Direct all inquiries regarding the *Contract*, to:

Valentino Tjia, MSc., PE, P.Eng., Contract Administrator

(NAME AND POSITION OF INDIVIDUAL WHO WILL ANSWER INQUIRIES)

E-Mail: <u>vtjia@mcelhanney.com</u> and cc: <u>alex.murray@yyj.ca</u>

- 2.0 Tender 2.1 The tender documents which a tenderer should review to prepare a tender consist of all of 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* listed in Schedule 2 to the Agreement, entitled "List of *Contract Drawings*".
 - 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, Specifications and Standard Detail Drawings. They are those contained in the publication entitled "Master Municipal Construction Documents – General Conditions, Specifications and Standard Detail Drawings". 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

Uni ⁻ Pric Con	T CE ITRACT		PROJECT NO. 6776 AND 6777 INSTRUCTIONS TO TENDERERS – PART I	IT – PART 1 PAGE 2 OF 4 FEB 2025
			sections of this publication are by reference included <i>Documents</i> .	in the <i>Contract</i>
		2.3	Any additional information made available to tendere <i>Tender Closing Time</i> by the <i>Owner</i> or representative such as geotechnical reports or as-built plans, which is included in Schedule 1 or Schedule 2 to the Agre included in the <i>Contract Documents</i> . Such additional made available only for the assistance of tenderers w their own judgment about its reliability, accuracy, com relevance to the <i>Contract</i> , and neither the <i>Ow</i> representative of the <i>Owner</i> gives any guarantee or that the additional information is reliable, accurate relevant.	ers prior to the of the <i>Owner</i> , s not expressly eement, is not information is tho must make pleteness and <i>vner</i> nor any representation e, complete or
3.0	Submission of Tenders	3.1	Emailed Tenders will only be accepted up to 3:00:0 Daylight Savings Time Friday , February 26 , 2025 . La be rejected at the sole discretion of VAA.	0 p.m., Pacific te tenders may
			Electronic Copy of tender submissions will be receiv	ed at:
			Email: admin@yyj.ca	
			Tenders are to be delivered in an email with email s "STORMWATER SYSTEM REPLACEMENT - Project 6777"	ubject labelled t No. 6776 and
			Confirmation of receipt of email will be issued. Tende be opened or viewed may be rejected. A Proponen that the VAA's receiving computer equipment function that the Tender is received by the Closing Time. The size that the VAA can receive is 10Mb. If sendir attachments, Proponents should provide link to a share email.	ers that cannot t bears all risk ns properly so e maximum file ng large email red drive in the
4.0	Additional Instructions to Tenderers	4.1	Freedom of Information: The Victoria Airport Auth subject to the provisions of the Freedom of In Protection of Privacy Act. As a result, while Section does offer some protection for third party business VAA cannot guarantee that any information provided be held in confidence.	nority (VAA) is formation and 1 21 of the Act 5 interests, the to the VAA can
		4.2	Funding: Proceeding with an award of this tender n to VAA Board approval and available funding.	nay be subject
		4.3	Notice of Project: The Contractor shall submit to V completed Notice of Project, providing a copy to the V	Vorksafe BC a √AA.
		4.4	Traffic Management Plan, Construction Staging F	lan, and Plan

of Construction Operation (Airside): Within 15 days of receipt of the written Notice of Award, deliver to the VAA a Construction Traffic Management Plan, Construction Staging Plan, and Plan of

Unit Price Contract		Project No. 6776 and 6777 Instructions to Tenderers – Part I	IT – Part 1 Page 3 of 4 Feb 2025
		Construction Operations prepared by a qualified per with the supplementary specifications.	rson that aligns
	4.5	Addenda: Any and all addenda to this Tender wi VAA's website at <u>https://yyj.ca/partnering-with-uproposals/</u> . It is the sole responsibility of the tendered that they are in receipt of all addenda prior to the cl acknowledge receipt of the addenda on the Tender R	Il be posted to <u>us/requests-for-</u> er to make sure osing date and ⁻ orm.
	4.6	Inquiries: All questions must be received at least 5 prior to the closing time and date.	business days
	4.7	Superintendent: The <i>Owner</i> reserves the right to <i>Superintendent</i> listed in the tender. If the <i>Owner Superintendent</i> , then the <i>Owner</i> will permit a tender days, propose a substitute <i>Superintendent</i> acceptable provided that there is no resulting adjustment in the the completion date set out in paragraph 2.2 of the FA tenderer will not be required to make such a subthe <i>Owner</i> objects to a listed <i>Superintendent</i> , the rather than propose a substitute <i>Superintendent</i> , correjected by the <i>Owner</i> and by written notice withdraw <i>Owner</i> shall, in that event, return the tenderer's bid superintendent.	o object to the objects to the erer to, within 5 le to the <i>Owner</i> <i>Tender Price</i> or form of Tender. stitution and, if tenderer may, nsider its tender its tender. The security.
	4.8	Schedule: Refer to Supplemental General Condit schedule requirements.	tions regarding
	4.9	Supplemental Specifications and Conditions: reminded to ensure that all trades, subcontractors, s etc. have familiarized themselves with the conditions including all Supplementary General Conditions, Specifications, Addenda, Supplemental Standard Dr	Tenderers are subconsultants, of the Contract, Supplemental awings, etc.
	4.10	Hours of Work: The Contractor shall comply workir Monday to Friday, 7 AM to 6 PM, unless otherwise SGC 4.1.5 or as negotiated with VAA following contr	ng hours, being required under act award.
	4.11	Late Completion: Liquidated damages for late comply, as per GC 13.9.	ompletion shall
	4.12	Optional Pricing: Optional prices, if applicable, will of the base scope total tendered price. The base scope, total tendered prices shall be used prices between tenders received. Should the owner decide to proceed with the optional be undertaken by change order, based on the option tendered, after award of contract.	NOT form part for comparing al work, this will al unit prices
	4.13	Tender Meeting: A mandatory tender meeting has b for Thursday, February 6, 2025, at 10:00 AM. Tender	been scheduled ers are to meet

Unit		IT – PART 1
PRICE	PROJECT NO. 6776 AND 6777	PAGE 4 OF 4
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near the intersection of Kittyhawk and Willingdon Road.

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.

A. STORMWATER SYSTEM REPLACEMENT (6777, excluding D2008X)

Division 01: General Requirements

Division 31: Earthworks

Division 32: Roads and Site Improvements

Division 33: Utilities

TOTAL TENDER PRICE:

GST (5%)

TOTAL TENDER PRICE including GST:

B. STORMWATER SYSTEM REPLACEMENT (6776 and 6777 (D2008X only)

Division 01: General Requirements Division 31: Earthworks Division 32: Roads and Site Improvements

Division 33: Utilities

TOTAL TENDER PRICE:

GST (5%)

TOTAL TENDER PRICE including GST:



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OPTIONAL WORK: Pipe D2762X Replacement					
Division 01: General Requirements					
Division 31: Earthworks					
Division 32: Roads and Site Improvements					
Division 33: Utilities					
TOTAL OF OPTIONAL WORK					
GST (5%)					
TOTAL OPTIONAL PRICE including GST:					
TOTAL A+B PRICE including GST:					
TOTAL OPTIONAL PRICE including GST:					



A. STORMWATER SYSTEM REPLACEMENT (6777, excluding D2008X)						
C	DIV 01	GENERAL REQUIREMENTS				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	01 10 00 SS	General				
1.01	1.1	Quality Control Testing	Lump Sum	1.00		
1.02	1.2	Layout Survey, Quantity Survey, and Volume Calculations	Lump Sum	1.00		
1.03	1.3	Miscellaneous Removals - e.g. Pipes and Manholes - Dispose Offsite	Lump Sum	1.00		
	01 52 01	Temporary Structures				
1.05	1.6.1 SS	Mobilization & Demobilization	Lump Sum	1.00		
	01 55 00	Traffic Control, Vehicle Access and Parking				
1.06	1.5.1 SS	Traffic Control	Lump Sum	1.00		
	01 57 01	Environment Protection				
1.07	1.6.2 SS	Environment Protection	Lump Sum	1.00		
			Sub-	Total		-
C	DIV 31	EARTHWORKS				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	31 11 01	Clearing and Grubbing				
31.01	1.4.1	Remove Existing Trees and Dispose to Designated Area	Each	3.00		
31.02	1.4.1 1.4.2	Clearing and Grubbing (Removal of Tree Stumps and Remaining of Clearing Area)	Square Metre	15.00		

Lump Sum

Cubic Metre

Sub-Total

1.00

70.00



31 11 41

1.31

31 23 23

1.4.1

31.03

31.04

Shrub and Tree Preservation

Protection of Exisitng Tree

For Abandoned Pipes

Controlled Density Fill

0	DIV 32	ROADS AND SITE IMPROVEMENTS				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	32 11 16.1	Granular Sub-Base				
32.01	1.4.2	75mm Minus Granular Subbase	Tonne	350.0		
	32 11 23	Granular Base				
32.02	1.4.1	19mm Minus Granular Base	Tonne	210.0		
	32 12 13 SS	Asphalt Tack Coat				
32.03	1.5.1	Tack Coat	Square Metre	680.0		
	32 12 16.1 SS	Airside Hot-Mix Asphalt Concrete Paving				
32.04	1.5.1	16mm Class 1 Medium Asphalt Surface Course	Tonne	60.0		
32.05	1.5.1	19mm Class 1 Medium Asphalt Base Course	Tonne	110.0		
	32 17 23.1 SS	Airside Painted Pavement Markings				
32.06	1.5.2	Airside Pavement Markings	Lump Sum	1.00		
	32 31 13	Chain Link Fences and Gates				
32.07	1.5.1	PSL Fence Reinstatement	Lineal Metre	10.00		
	32 91 21	Topsoil and Finish Grading				
32.08	1.4.1	Imported Topsoil	Tonne	50		
	32 92 19	Hydraulic Seeding				
32.09	1.8.2	Native Mixed Hydraulic Seeding for Boulevard Restoration	Square Metres	300		
			Sub-	Fotal		



C	DIV 33	UTILITIES				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	33 01 30.1	CCTV Inspection of Pipelines				
33.01	1.6.2 1.6.3 1.6.6 SS	Drainage Pipe Post-Inspection - Various Sizes	Lineal Metre	270.0		
	33 40 01	Storm Sewers	-			-
33.02	1.6.1 1.6.2 1.6.3	300 mm dia. Reinforced Class IV Concrete Drainage Pipe	Lineal Metre	11.0		
33.03	1.6.1 1.6.2 1.6.3	450 mm dia. Reinforced Class IV Concrete Drainage Pipe	Lineal Metre	74.0		
33.04	1.6.1 1.6.2 1.6.3	1050 mm dia. Reinforced Class IV Concrete Drainage Pipe	Lineal Metre	105.0		
33.05	1.6.1 1.6.2 1.6.3	1050 mm dia. Reinforced Class III Concrete Drainage Pipe	Lineal Metre	88.0		
	33 44 01	Manholes and Catchbasins				
33.06	1.5.1 SS	Manhole 900 mm dia. Extra Heavy Duty Catchbasin, Frame, Grate, and/or Rim	Each	2.0		
33.07	1.5.1 SS	Manhole 1050 mm dia. Extra Heavy Duty Catchbasin, Frame, Grate, and/or Rim	Each	1.0		
33.08	1.5.4 SS	Manhole 1800 mm dia. Manhole, Frame, Grate, and/or Rim	Each	2.0		
33.09	1.5.1 SS	Manhole 1800 mm dia. Extra Heavy Duty Manhole, Frame, Grate, and/or Rim	Each	2.0		
33.10	1.5.1 SS	Oil and Grit Separator System	Each	1.0		
			Sub-Total			
	•	ALTERNATIVE PRODUCT				
Item No.	Section Put Section Number	Specification Title Put Alternative Product Description	Unit	Quantity	Unit Price Cost Saving	Amount Cost Saving

Sub-Total



C	DIV 01	GENERAL REQUIREMENTS				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	01 10 00 SS	General				
1.01	1.1	Quality Control Testing	Lump Sum	1.00		
1.02	1.2	Layout Survey, Quantity Survey, and Volume Calculations	Lump Sum	1.00		
1.03	1.3	Miscellaneous Removals - Dispose Offsite or Relocate as Noted	Lump Sum	1.00		
	01 52 01	Temporary Structures				
1.04	1.6.1 SS	Mobilization & Demobilization	Lump Sum	1.00		
	01 55 00	Traffic Control, Vehicle Access and Parking				
1.05	1.5.1 SS	Traffic Control	Lump Sum	1.00		
	01 57 01	Environment Protection				
1.06	1.6.2 SS	Environment Protection	Lump Sum	1.00		
	L		Sub-	Гotal		L
0	DIV 31	EARTHWORKS				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	31 05 17	Aggregates and Granular Material				
31.01	1.4.1	Compacted silts and clays	Cubic Metre	5.00		
31.02	1.4.1	100-200 mm Cobbles	Cubic Metre	4.00		
31.03	1.4.1	Coho Fish Gravels	Cubic Metre	5.00		
	31 11 01	Clearing and Grubbing				
31.04	1.4.1	Remove Existing Trees	Each	4.00		
31.05	1.4.1 1.4.2	Clearing and Grubbing (Removal of Tree Stumps and Remaining of Clearing Area)	Square Metre	180.00		
	31 11 41	Shrub and Tree Preservation				
31.06	1.31	Protection of Exisitng Tree	Lump Sum	1.00		
	31 23 01	Excavating, Trenching and Backfilling				
31.07	1.10.4	Common Excavation: Culvert and Headwall Removal - Reuse Native Soil for Backfill	Cubic Metre	1,600.00		
31.08.1	1.10.9	ALLOWANCE: Common Excavation, Transport to Stockpile, and Off-Site Disposal for Contaminated Soil (Category IL+)	Tonne	120.00		
31.08.1.1	1.10.9	ALLOWANCE: Common Excavation, Transport to Stockpile, and Off-Site Disposal for Contaminated Soil (Category IL+ containing metals)	Tonne	120.00		
31.08.2	1.10.9	ALLOWANCE: Common Excavation, Transport to Stockpile and Off-Site Disposal for Contaminated Soil (Category RL+/IL-)	Tonne	120.00		
31.08.3	1.10.9	ALLOWANCE: Common Excavation, Transport to Stockpile and Off-Site Disposal for Contaminated Soil (Category RL-)	Tonne	120.00		
31.08.4	1.10.10	ALLOWANCE: Common Excavation, Testing, Storing and Off-	Litre	5,000.00		



UNIT PRICE CONTRACT

APPENDIX 1 SCHEDULE OF QUANTITIES AND PRICES Project no. 6776 and 6777

	31 23 23	Controlled Density Fill			
31.09	1.4.1	For Abandoned Pipes	Cubic Metre	40.00	
	31 24 13	Roadway Excavation, Embankment and Comp	action		
31.10	1.8.7 SS	Embankment Fill (Select Granular Sub-Base)	Cubic Metre	20.00	
	31 37 10	Riprap (for Outlet Pool)			
31.11	1.4.2 SS	600mm Boulders	Each	30.00	
31.12	1.4.2 SS	900mm Boulders	Each	6.00	
			Sub-1	Total	

C	DIV 32	ROADS AND SITE IMPROVEMENTS				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	32 11 16.1	Granular Sub-Base				
32.01	1.4.2	75mm Minus Crushed Gravel	Tonne	50.00		
32.02	1.4.2	75mm Pit Run Gravel	Tonne	10.00		
	32 11 23	Granular Base				
32.03	1.4.1	19mm Minus Granular Base	Tonne	30.00		
	32 12 13.1	Asphalt Tack Coat				
32.04	1.5.1	Tack Coat	Square Metre	90.00		
	32 12 16	Hot-Mix Asphalt Concrete Paving				
32.05	1.5.1	Upper Course #2	Tonne	20.00		
32.06	1.5.1	Lower Course #2	Tonne	20.00		
	32 17 23	Painted Pavement Markings				
32.07	1.5.2	Painted Pavement Markings	Lump Sum	1.00		
32.08	1.5.3	Thermoplastic Pavement Markings	Lump Sum	1.00		
	32 31 13	Chain Link Fences and Gates				
32.09	1.5.1	PSL Fence Reinstatement	Lineal Metre	40.00		
32.10	1.5.1	Wooden Fence and Stair Reinstatement	Lump Sum	1.00		
	32 91 21	Topsoil and Finish Grading				
32.11	1.4.1	Imported Topsoil	Cubic Metre	110.00		
	32 92 19	Hydraulic Seeding				
32.12	1.8.2	Native Mixed Hydraulic Seeding for Boulevard Restoration and Embankment	Square Metres	720.00		
			Sub-1	Total		



D	DIV 33	UTILITIES				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	33 01 30.1	CCTV Inspection of Pipelines				
33.01	1.6.2 1.6.3 1.6.6 SS	Drainage Pipe Pre- and Post-Installation - Slip Lining (D2444X & D2455X)	Lineal Metre	88.0		
33.02	1.6.2 1.6.3 1.6.6 SS	Drainage Pipe Post-Inspection - Various Sizes	Lineal Metre	205.0		
	33 01 30.2	Cleaning of Sewers				
33.03	1.5.2 1.5.3 1.5.4 SS	Drainage Pipe Pre- and Post-Inspection - Slip Lining (D2444X & D2455X)	Lineal Metre	88.0		
	33 05 24	Cured In Place Pipe Liners	-	-		
33.04	1.9.11	Slip Lining with 900mm HDPE Snap Tite (D2444X & D2455X)	Lump Sum	1.0		
	33 40 01	Storm Sewers				
33.05	1.6.1 1.6.2 1.6.3	1050mm Ø Reinforced Class III Concrete Pipe (D2008X)	Lineal Metre	40.0		
33.06	1.6.1 1.6.2 1.6.3	900mm Ø <mark>Reinforced Class III</mark> Concrete Pipe (D42 to D2733 and D36 to D2812)	Lineal Metre	125.0		
33.07	1.6.1 1.6.2 1.6.3	750mm Ø Reinforced Class III Concrete Pipe (D2333 to D2716 and D2717 to D2718)	Lineal Metre	40.0		
	33 42 13	Pipe Culverts				
33.08	1.5.3	Precast 1050mm Pipe Concrete Headwall with Handrails and Trash Racks (D2327)	Each	1.0		
33.09	1.5.3	Precast 900mm Pipe Concrete Headwall with Handrails and Trash Racks (D2733)	Each	1.0		
33.10	1.5.3	Precast 900mm Pipe Concrete Headwall (D2812)	Each	1.0		
33.11	1.5.3	Precast 750mm Pipe Concrete Headwall with Handrails and Trash Racks (D2717)	Each	2.0		
33.12	1.5.3	Precast 750mm Pipe Concrete Headwall (D2718)	Each	1.0		
	33 44 01	Manholes and Catchbasins				
33.13	1.5.1 SS	Manhole 1500 mm diameter, including frame, grate and/or rim	Each	7.0		
33.14	1.5.4 SS	Removal of Exisitng Manholes	Each	2.0		
			Sub-	Fotal		
		ALIERNATIVE PRODUCT				

ltem No.	Section Put Section Number	Specification Title Put Alternative Product Description	Unit	Quantity	Unit Price Cost Saving	Amount Cost Saving
			Sub-	Гotal		



OPTIO	NAL WORK	K: Pipe D2762X Replacement				
D	DIV 01	GENERAL REQUIREMENTS				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	01 10 00 SS	General				
1.01	1.1	Quality Control Testing	Lump Sum	1.00		
1.02	1.2	Layout Survey, Quantity Survey, and Volume Calculations	Lump Sum	1.00		
1.03	1.3	Miscellaneous Removals - Dispose Offsite or Relocate as Noted	Lump Sum	1.00		
	01 52 01	Temporary Structures				
1.05	1.6.1 SS	Mobilization & Demobilization	Lump Sum	1.00		
	01 55 00	Traffic Control, Vehicle Access and Parking				
1.06	1.5.1 SS	Traffic Control	Lump Sum	1.00		
	01 57 01	Environment Protection				
1.07	1.6.2 SS	Environment Protection	Lump Sum	1.00		
			Sub-	Total		

D	DIV 31	EARTHWORKS				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	31 11 01	Clearing and Grubbing				
31.01	1.4.1 1.4.2	Clearing and Grubbing	Square Metre	15.00		
	31 11 41	Shrub and Tree Preservation				
31.01	1.4.2	Protection of Exisitng Tree	Lump Sum	1.00		
			Sub-	Total		

C	DIV 32	ROADS AND SITE IMPROVEMENTS				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	32 11 16.1	Granular Sub-Base				
32.01	1.4.2	75mm Minus Crushed Gravel	Tonne	24.00		
	32 11 23	Granular Base				
32.02	1.4.1	19mm Granular Base	Tonne	12.00		
	32 12 13.1	Asphalt Tack Coat				
32.03	1.5.1	Tack Coat	Square Metre	80.00		
	32 12 16	Hot-Mix Asphalt Concrete Paving				
32.04	1.5.1	Upper Course #2	Tonne	4.00		



UNIT PRICE CONTRACT

32.05	1.5.1	Lower Course #2	Tonne	5.00	
	32 17 23	Painted Pavement Markings			
32.06	1.5.3	Thermoplastic Pavement Markings	Lump Sum	1.00	
	32 91 21	Topsoil and Finish Grading			
32.07	1.4.1	Imported Topsoil	Cubic Metre	2.00	
	32 92 19	Hydraulic Seeding			
32.08	1.8.2	Native Mixed Hydraulic Seeding for Boulevard Restoration	Square Metres	15.00	
			Sub-	Гotal	

C	DIV 33	UTILITIES				
ltem No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	33 01 30.1	CCTV Inspection of Pipelines				
33.01	1.6.2 1.6.3 1.6.6 SS	Drainage Pipe Post-Inspection - Various Sizes	Lineal Metre	23.0		
	33 40 01	Storm Sewers				
33.02	1.6.1 1.6.2 1.6.3	600mm Ø PVC DR35	Lineal Metre	23.0		
			Sub-	Гotal		

		ALTERNATIVE PRODUCT				
ltem No.	Section Put Section Number	Specification Title Put Alternative Product Description	Unit	Quantity	Unit Price Cost Saving	Amount Cost Saving
			Sub-	Fotal		



ASI
JECT NO. 6776 AND 6777 PAGE 1 OF 8
FORM OF AGREEMENT FEB 2025

(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 _		, 2025.		
Contract:	Storm	Stormwater System Replacement		
Reference No.:		ct 6776 and 6777		
	BETV	BETWEEN:		
	The	VICTORIA AIRPORT AUTHORITY		
	•	(NAME OF OWNER)		
		(the " <i>Owner</i> ")		
	AND:	AND:		
		(NAME AND OFFICE ADDRESS OF CONTRACTOR)		

(the "Contractor")

The Owner and the Contractor agree as follows:

Article 1 The Work -1.1 The Contractor will perform all Work and provide all labour, equipment and material and do all things strictly as required by the Start / Completion Contract Documents. Dates 1.2 The Contractor will commence the Work in accordance with the Notice to Proceed. The Contractor will proceed with the Work diligently, will perform the Work generally in accordance with the construction schedules as required by the Contract Documents and will achieve Substantial Performance of the Work on or before October 10, 2025 subject to the provisions of the Contract Documents for adjustments to the Contract Time 1.3 Time shall be of the essence of the Contract.

UNIT PRICE CONTRACT			Pro	DJECT NO. 6776 AND 6777 FORM OF AGREEMENT	AGT PAGE 2 OF 8 FEB 2025
Article 2	Contract Documents	2.1	The "(referre Docun and ir issued Docun entire	Contract Documents" consist of the ed to in Schedule 1, entitled " ments", which is attached and forms a ncludes any and all additional and i in accordance with the provision ments. All of the Contract Document Contract between the Owner and the	te documents listed o Schedule of Contrac a part of this Agreement amending documents sions of the <i>Contrac</i> <i>nts</i> shall constitute the e <i>Contractor</i> .
		2.2	The Ca agreer ameno <i>Contra</i>	ontract supersedes all prior negotiat ments, whether written or oral, and ded only in strict accordance with act Documents.	ions, representations o d the <i>Contract</i> may be the provisions of the
Article 3	Contract Price	3.1	The p Canad	rice for the <i>Work</i> (" <i>Contract Price</i> " dian dollars of the following) shall be the sum in
			3.1.1	the product of the actual quantities listed in the <i>Schedule of Quantities</i> incorporated into or made necessa unit prices listed in the <i>Schedule of</i> plus	s of the items of <i>Work</i> s and Prices which are ry by the <i>Work</i> and the Quantities and Prices;
			3.1.2	all lump sums, if any, as listed in th <i>Quantities and Prices</i> , for items rel incorporated into the <i>Work</i> ; plus	ne <i>Schedule of</i> lating to or
			3.1.3	any adjustments, including any pay account of <i>Changes</i> and agreed to approved in accordance with the p <i>Contract Documents</i> .	yments owing on <i>Extra Work</i> , rovisions of the
		3.2	The C Contra includ equipr expen	<i>Contract Price</i> shall be the entire com actor for the <i>Work</i> and this compen- e all profit and all costs of supervi ment, overhead, financing, and ses whatsoever incurred in performi	pensation owing to the sation shall cover and sion, labour, material, all other costs and ing the <i>Work</i> .
Article 4	Payment	4.1	Subje Contra Contra	ct to applicable legislation and t act Documents, the Owner shall m actor.	he provisions of the nake payments to the
		4.2	If the becon Docur prime such u payme unpaid	<i>Owner</i> fails to make payments to to the due in accordance with the terments then interest calculated at 2% commercial lending rate of the Roy unpaid amounts shall also become ent. Such interest shall be calculated amounts monthly.	he <i>Contractor</i> as they erms of the <i>Contract</i> % per annum over the al Bank of Canada on due and payable until ed and added to any

Unit Price Contract		PROJECT NO. 6776 AND 6777 FORM OF AGREEMENT	AGT Page 3 of 8 Feb 2025
Article 5	Rights and Remedies	5.1 The duties and obligations imposed by the and the rights and remedies available the addition to and not a limitation of any dutie and remedies otherwise imposed or availab	<i>Contract Documents</i> ereunder shall be in es, obligations, rights le by law.
		5.2 Except as specifically set out in the Contaction or failure to act by the Owner, Cont Contractor shall constitute a waiver of any or duties afforded under the Contract, nor sha failure to act constitute an approval of or a breach under the Contract.	tract Documents, no ract Administrator or f the parties' rights or Ill any such action or acquiescence in any
Article 6	Notices	6.1 Communications among the <i>Owner</i> , the <i>Co</i> and the <i>Contractor</i> , including all written no <i>Contract Documents</i> , may be delivered by pre-paid registered mail to the addresses as	ontract Administrator tices required by the email, by hand or by s set out below:
		The Owner:	
		VICTORIA AIRPORT AUTHORITY	
		Victoria International Airport	
		201-1640 Electra Boulevard, Sidney, BC. V8L	5V4
		Attention: Alex Murray, P. Eng., PMP	
		The Contractor:	
		Email:	
		Attention:	
		The Contract Administrator:	
		McELHANNEY LTD.	
		200 – 858 BEATTY ST	
		VANCOUVER, BC V6B 1C1	
		e-mail: vtjia@mcelhanney.com	
		Attention: VALENTINO TJIA, MSc., PE, P.En	ig.
		6.2 A communication or notice that is addresse considered to have been received	ed as above shall be
		6.2.1 immediately upon delivery, if deliver	ed by hand; or

UNIT PRICE CONTRACT	PROJECT NO. 6776 AND 6777 FORM OF AGREEMENT	AGT Page 4 of 8 Feb 2025
	6.2.2 immediately upon transmission if sent b in hard copy; or	y fax and received
	6.2.3 after 5 <i>Days</i> from date of posting if s mail.	sent by registered
	6.3 The <i>Owner</i> or the <i>Contractor</i> may, at any address for notice by giving written notice to address then applicable. Similarly if the <i>Cont</i> changes its address for notice then the <i>Owner</i> to be given written notice to the <i>Contractor</i> .	time, change its o the other at the <i>tract Administrator</i> r will give or cause
	6.4 The sender of a notice by fax assumes all r received in hard copy.	isk that the fax is
Article 7 General	7.1 This <i>Contract</i> shall be construed according to Columbia.	the laws of British
	7.2 The <i>Contractor</i> shall not, without the express the <i>Owner</i> , assign this <i>Contract</i> , or any portion	written consent of of this <i>Contract</i> .
	7.3 The headings included in the <i>Contract De</i> convenience only and do not form part of this not be used to interpret, define or limit the sco <i>Contract</i> or any of the provisions of the <i>Contra</i>	<i>ocuments</i> are for <i>Contract</i> and will pe or intent of this act Documents.
	7.4 A word in the <i>Contract Documents</i> in the sin plural and, in each case, vice versa.	gular includes the
	7.5 This agreement shall ensure to the benefit of ar the parties and their successors, executors, a assigns.	าd be binding upon administrators and
	IN WITNESS WHEREOF the parties hereto ha Agreement the day and year first written above.	ve executed this
	Contractor:	
	(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR IN	DIVIDUAL)
	(AUTHORIZED SIGNATORY)	
	(AUTHORIZED SIGNATORY)	
	Owner.	
	THE VICTORIA AIRPORT AUTHORITY	
	(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR IN	DIVIDUAL)
	(AUTHORIZED SIGNATORY)	

(AUTHORIZED SIGNATORY)

Unit	PROJECT NO. 6776 AND 6777	AGT
PRICE	FORM OF AGREEMENT – SCHEDULE 1	PAGE 5 OF 8
CONTRACT	SCHEDULE OF CONTRACT DOCUMENTS	F EB 2025

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.

<u>NOTE</u>: The documents noted with "*" are contained in the "<u>Master Municipal Construction Documents –</u> <u>General Conditions, Specifications and Standard Detail Drawings</u>", 2019 Edition. All sections of this publication are included in the *Contract Documents*.

- 1. Agreement, including all Schedules
- 2. Supplementary General Conditions
- 3. General Conditions*
- 4. Supplementary Specifications
- 5. Specifications*
- 6. *Contract Drawings* listed in Schedule 2 to the Agreement "*List of Contract Drawings*"
- 7. Supplementary Standard Detail Drawings [if any]
- 8. Standard Detail Drawings*
- Executed Form of Tender, including all Appendices
 9a. VAA's 'Multiple Obligee Rider'.
- 10. Instructions to Tenderers Part I
- 11. Instructions to Tenderers Part II*
- 12. Reference Files:
 - 1. Geotechnical Report
 - 2. PFAS Soil and Groundwater Memo Final
 - 3. Soil and Water Management Plan
 - 4. Environmental Management Plan
 - 5. Plan of Construction Operation
 - 6. Utility and Permit Information Package
 - 7. Section 11 Notification Terms and Conditions by MWLRS
 - 8. DFO Avoid and Mitigate Letter 24-HPAC-01129
 - 9. Nav Canada Land Use Submission Letter
 - 10. YYJ EPP Review Checklist
 - 11. Final Cultural Monitoring procedures
 - 12. Parking and Laydown Areas
 - 13. CCTV inspection reports for D2733X, D2444X and D2455X.

AGT

13. The following Addenda: Addendum 1 Addendum 2 Addendum 3

(ADDENDA, IF ANY)

(Complete listing of all drawings, plans and sketches which are to form a part of this Contract, other than Standard Detail Drawings and Supplementary Standard Detail Drawings.)

DRAWING NO.	TITLE	REVISION NO.	REVISION DATE
6777 Stormwater	System Replacement	•	
C000	TITLE PAGE, LEGEND AND INDEX	-	10 Jan 25
C100	KEY PLAN	E	10 Feb 25
C201	STORM PLAN AND PROFILE	E	14 Feb 25
C202	STORM PLAN AND PROFILE	E	14 Feb 25
C203	STORM PLAN AND PROFILE	E	14 Feb 25
C400	DRAINAGE DETAILS	D	10 Jan 25
C501	PAVEMENT RESTORATION PLAN	С	10 Jan 25
C502	PAVEMENT RESTORATION DETAILS	E	14 Feb 25
6776 Stormwater	System Replacement		
C000	COVER	-	10 Jan 25
C100	KEY PLAN – 6776/6777	E	10 Feb 25
C101	KEY PLAN – 6776	E	10 Feb 25
C200	PLAN AND PROFILE – 6777	D	10 Jan 25
C201	PLAN AND PROFILE – ZONE 1	D	10 Jan 25
C202	PLAN AND PROFILE – ZONE 2	D	10 Jan 25
C203	PLAN AND PROFILE – ZONE 3	D	10 Jan 25
C300	CONSTRUCTION STAGING – 6776/6777	E	10 Feb 25
C301	CONSTRUCTION STAGING – ZONE 1	D	10 Jan 25
C302	CONSTRUCTION STAGING – ZONE 2	D	10 Jan 25
C303	CONSTRUCTION STAGING – ZONE 3	D	10 Jan 25
C400	DRAINAGE DETAILS	D	10 Jan 25
C500	PAVEMENT RESTORATION PLAN - 6777	С	10 Jan 25
C501	PAVEMENT RESTORATION PLAN – ZONE 1	С	10 Jan 25
C502	PAVEMENT RESTORATION PLAN - ZONE 2	С	10 Jan 25
C503	PAVEMENT RESTORATION PLAN - ZONE 3	С	10 Jan 25

SCHEDULE 2 – LIST OF CONTRACT DRAWINGS

Unit	PROJECT NO. 6776 AND 6777	AGT
PRICE	FORM OF AGREEMENT – SCHEDULE 2	PAGE 8 OF 8
CONTRACT	LIST OF CONTRACT DRAWINGS	FEB 2025

DRAWING NO.	TITLE	REVISION NO.	REVISION DATE
C504	PAVEMENT RESTORATION DETAILS	D	10 Feb 25

In cases of conflict, the order of precedence for drawings, specifications and standards is as per the Supplementary General Conditions, Section 2.2.4, Document Hierarchy.



Add the following Supplementary Specifications (attached at the end):

SECTION	TITLE	SSP
01 10 00 SS	Measurement and Payment	All subsections
01 14 00 SS	Work Restrictions	All subsections
01 35 13.13 SS	Special Procedure for Airport Facilities	All subsections
01 43 00 SS	Quality Assurance	All subsections
01 45 00 SS	Quality Control	All subsections
01 74 10.1 SS	Dust Control	All subsections
32 01 11.1 SS	Airside Pavement Surface Cleaning and Removal of Pavement Marking	All subsections
32 12 13 SS	Airside Asphalt Tack Coat	All subsections
32 12 14 SS	Corrected Maximum Dry Density	All subsections
32 12 15 SS	Marshall Immersion Test	All subsections
32 12 16.2 SS	Airside Hot-Mix Asphalt Concrete Paving	All subsections
32 17 23.1	Airside Painted Pavement Markings	All subsections

The following Supplementary Specifications included in this section of the *Contract Documents* are modifications or additions to the Specifications in the Master Municipal Construction Document Volume II (2019 Edition):

	SUPPLEMENTARY SPECIFICATIONS (PROJECT)		
SECTION	TITLE	SSP	
01	GENERAL		
	REQUIREMENTS		
01 33 01	Project Record	1.1 Section Includes	
	Documents		
		Add clause 1.1.5: Pre-construction Inspection Record. Work shall include, but not limited to, contacting BC One Call, doing utility locates and hydrovac, prior of ordering the material. Provide record to Contract Administration within 3 business days after the inspection work has been conducted.	
		1.7 Recording Site Conditions	
		Add clause 1.7.5: Prior to the commencement of any construction activities, the Contractor shall prepare a photographic and/or video record of the physical condition of landscaping, trees, driveways, and other facilities that may be impacted by the Work (the "Pre-Construction Inspection Record").	
		Submit a complete copy of the Pre-Construction Inspection Record to the Contract Administrator prior to commencement	



SUPPLEMENTARY SPECIFICATIONS (PROJECT)			
SECTION	TITLE	SSP	
		of construction, which shall become the record of the condition	
		of the Place of Work prior to construction.	
01 52 01	Temporary Structures	1.6 Payment	
		Replace clause 1.6.1 with the Following:	
		Payment for mobilization and demobilization shall include all	
		the contractor costs of mobilization at the beginning of the	
		.1 Included in the mobilization are such items as bonding.	
		insurance, permits, moving personnel, equipment and	
		materials to the site, setting up Site Office, temporary	
		facilities and all preparation for performing the Work.	
		.2 Included in demobilization are preparation and submission	
		of record drawings, operation and maintenance manuals,	
		removal of all personnel, equipment and materials and	
		cleanup of the <i>Site</i> and the <i>Work</i> .	
		.3 The lump sum price bid for this work shall be relative to	
		Tandar Brica	
		A Payment shall be made as follows as approved by the	
		Contract Administrator:	
		.1 60% of the lump sum bid will be included in the first	
		progress payment certificate.	
		.2 40% of the lump sum bid will be included in the final	
		progress payment certificate.	
		.5 The Contract Administrator may at his discretion authorize	
		complete	
		6 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 Schedule of Quantities and Prices.	



SUPPLEMENTARY SPECIFICATIONS (PROJECT)		
SECTION	TITLE	SSP
01 55 00	Traffic Control, Vehicle	1.4 Traffic Control
	Access and Parking	Add clause 1.4.15: Provide a detailed Traffic Management Plan (TMP) and drawings with dedicated traffic control and pedestrian delineation for safety of motorists, pedestrians and bicycle traffic for all locations where roadways are affected by construction activities. The TMP shall be prepared by a qualified person and will be approved by the Contract Administrator in advance of implementation. This plan is to be submitted to the Contract Administrator a minimum of 14 calendar days prior to the Contractor's desired date of construction commencement. The plan shall be updated and modified as requested by the Contract Administrator, both as the construction project proceeds and traffic management needs warrant. The TMP is to contain sufficient details to allow the Contract Administrator and the Owner a clear understanding of how the Contractor will ensure the following minimum performance specifications will be achieved:
		 Details of parking and laydown areas including temporary fencing or other measures to secure vehicles, equipment and/or materials. All parking and storage sites to be returned to existing condition at start of contract, at no cost to VAA. Contractor to ensure vehicles or other equipment do not track mud, gravel, dirt or other materials onto surrounding road network, and maintain public roadways clean and safe for public use. The TMP shall be prepared in accordance with the BC Ministry of Transportation and Infrastructure 2020 Traffic Management Manual for Work on Roadways.
		1.5 Payment
		Revise clause 1.5.1: Payment for all work performed under these Sections will be paid as lump sum.
01 57 01	Environmental	1.1 Section 01 57 01 Includes
	Protection	Add Clause 1.1.5: Qualified Environmental Professional.
		1.2 Temporary Erosion and Sediment Control




SUPPLEMENTARY SPECIFICATIONS (PROJECT)							
SECTION	TITLE	SSP					
		Add Clause 1.4.6:					
		1.4.6 Soil Stabilization -					
		 All ditches, swales and surface drainage features are to be protected from erosion to the end of the warranty period. Erosion and soil stabilization measures are the responsibility of the contractor and are incidental to construction of the feature. 					
		1.6 Payment					
		Add Clause 1.6.2: Payment for Environmental Protection Plan shall be lump sum and includes all work to prepare, deliver and undertake all required documents under YYJ EPP Review Checklist. A Construction Environmental Management Plan (CEMP) prepared by a registered professional. The CEMP must address all aspects of the Environmental Management Plan and the YYJ EPP Review Checklist, Final Cultural Monitoring Procedures, and be submitted to and approved by Contract Administrator prior to the start of construction. The payment shall also include having a Qualified Environmental Professional onsite during construction activities as noted in the CEMP.					
31	EARTHWORKS						
31 11 01	Clearing and Grubbing	1.4 Measurement and Payment					
		Replace Clause 1.4.1: Payment for all tree removal will be measured for each tree with 300mm or more breast diameter. Payment shall include removal and disposal of all branches, stumps, timbers and vegetation remains, including cutting down timbers to a maximum of 1.5m long, transporting and storing these pieces onto the side of the access road via Airside Gate 282. For tree with 300mm or less breast diameter, payment will be based under Clause 1.4.2.					
		Replace Clause 1.4.2: Payment for all clearing and/or grubbing items include removal and disposal of all branches, stumps, timbers and vegetation remains. Payment shall include cutting down timbers to a maximum of 1.5m long, transporting and storing these pieces onto the side of the access road via Airside Gate 282. Payment for all clearing and grubbing items will be based on the areas or isolated trees to be cleared and/or					



SUPPLEMENTARY SPECIFICATIONS (PROJECT)						
SECTION	TITLE	SSP				
		grubbed as shown on Contract Drawings or as directed by				
		Contract Administrator.				
31 11 41	Shrub and Tree	1.4 Inspection and Testing				
	Preservation					
		Add Clause 1.4.2: Engage and pay for the services of a Project				
		Arborist who shall be an ISA Certified Arborist and Qualified				
		Tree Risk Assessor to provide monitoring as required during				
		construction. The Project Arborist shall apply the current				
		generally accepted Standard of Care when performing the				
		Work.				
31 23 01	Excavation, Trenching	1.10 Measurement and Payment				
	and Backfill					
		Add clause 1.10.9:				
		1.10.9 Measurement and payment for allowance in the event				
		that contaminated soil is encountered during excavation. The				
		measurement and payment shall include excavation of the				
		contaminated soil and transport them to the stockpile indicated				
		in the Contract Drawings. The price shall include requirement				
		for handling and placing the stockpile as noted in the Soil and				
		Water Management Plan. The price shall also include				
		transporting and disposing to the designated off-site disposal				
		based on testing done by McElhanney's QEP.				
		3.6 Surface Restoration				
		Add clause 3.6.7 (11):				
		3.6.7 (11) Saw-cuts and asphalt edges are to be in straight				
		lines, minimizing the number of jogs, and generally parallel to				
		the trench. Contractor is to review the proposed saw-cuts and				
		extent of paying in the field with the Owner and Contract				
		Administrator 48 hours prior to adjoining paving.				
31 24 13	Roadway Excavation.	1.8 Measurement and Payment				
	Embankment and					
	Compaction	Modify clause 1.8.5 (4):				
		<i>Change: "</i> from loose truck box volume as determined by				
		Contract Administrator"				
		To: "survey of OG and subgrade provided by contractor"				



	SUPPLEMENTARY SPECIFICATIONS (PROJECT)								
SECTION	TITLE	SSP							
		Clause 1.8.7 delete: "will be based on weigh tickets provided to							
		Contract Administrator as loads are" replace with: "will be based							
		on cubic metres of compacted material "							
22	ROADS AND SITE								
32	IMPROVEMENTS								
32 91 21	Topsoil and Finish Grading	1.0 References							
	0	Revise Clause 1.0.2: Replace the words "British Columbia							
		Landscape Standard" with Canadian Landscape Standard,							
		Current Edition".							
		1.1 Related Work							
		Add Clause 1.1.6: Section 31 05 17 Aggregates and Granular Materials							
		Add Clause 1.1.7: Section 33 40 01 Storm Sewers							
		1.2 References							
		Revise Clause 1.2.1: Canadian Landscape Standard, Current Edition.							
33	UTILITIES								
33 01 30.1	CCTV Inspection of	1.5 Measurement and Payment							
	Pipelines								
		Revise Clause 1.6.6:as described in the Form of Tender will							
		be made as incidental to the CCTV Inspection of Pipelines.							
33 01 30.2	Cleaning of Sewers	1.5 Measurement and Payment							
		Revise Clause 1.5.4: Root cutting will be incidental to the							
		cleaning of sewers.							
33 05 24	Cured In Place Pipe	1.9 Measurement and Payment							
	Liners								
		Add 1.9.11: Payment for slip lining will be lump sum and shall							
		include preparation of the work plan, management of storm							
		flow system (by-pass pumping, isolation, blocking, diverting,							
		etc.) including mobilization and demobilization. removal of							
		intruding connections, and supply and installation of the pines							
		and grouting, including environmental control. CCTV inspection							
		and cleaning (including root cutting) are paid separately under							
		Sections 33.01 and 33.03.							



	SUPPLEMENTARY SPECIFICATIONS (PROJECT)								
SECTION	TITLE	SSP							
33 44 01	Manholes and	1.5 Measurement and Payment							
	Catchbasins								
		Revise Clause 1.5.1: Payment for manholes will be made by							
		items or components installed for each type and size as shown							
		on Contract Drawings and specified in Schedule of Quantities							
		work required to accommodate manhole in new sewer system							
		constructed under this Contract for which manhole forms a							
		part.							
		No change to Clause 1.5.1 (1)							
		Revise Clause 1.5.1 (2): Payment for manhole riser sections will							
		be incidental for both standard or non-standard heights							
		required to complete manhole from specified invert to finishing level.							
		ievei.							
		Revise Clause 1.5.4: Payment for removal of existing manhole,							
		catch basins, lawn drains, cleanouts, and inspection chambers							
		include excavation, backfilling and, where applicable,							
		temporary and permanent paving surface restoration.							
33 42 13	Pipe Culverts	Measurement and Payment 1.5.3:							
		Change: "end walls" to "headwalls"							
		Add 1.7: Shop Drawings							
		Add 1.7.1: At least 14 days prior to installation, shop drawings							
		of headwall(s) must be submitted for the contract							
		administrator for approval.							
		Add 3.11: Headwall(s)							
		Add 3.11.2: Install headwall(s) and shown in contract drawings.							



Part 1 – GENERAL

1.1. DOCUMENTS

1.1.1. This section of the Specifications forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.

1.2. REFRENCES

- 1.2.1. CAN/CGSB-16.2-M, Emulsified Asphalts, Anionic Type, for Road Purposes
- 1.2.2. ASTM D140M, Practice for Sampling Bituminous Materials.
- 1.2.3. Master Municipal Construction Documents 2019 Edition.
- 1.2.4. National Building Code of Canada 2015.

1.3. SAMPLES

- 1.3.1. Submit samples for review as required by the Contract Administrator.
- 1.3.2. Provide access on tank truck for Airport to sample asphalt material to be incorporated into work, in accordance with ASTM D140M.

1.4. ASPHALT MATERIAL CERTIFICATION

1.4.1. Upon request by the Airport, submit manufacturer's test data and certification that asphalt tack coat material meets requirements of this section.

1.5. MEASUREMENT FOR PAYMENT

1.5.1. Measurement of asphalt tack coat will be made in square metres based on the tack coated areas authorized by the Airport. This price shall include materials, applying and all work incidental thereto.

Part 2 - PRODUCTS

2.1. MATERIAL

2.1.1. Anionic emulsified asphalt: to CAN/CGSB-16.2, grade SS-1h.

Part 3 - EXECUTION

3.1. EQUIPMENT

- 3.1.1. Pressure distributor to be:
 - 3.1.1.1. Designed, equipped, maintained and operated so that asphalt material:
 - 3.1.1.1.1. Is maintained at even temperature.
 - 3.1.1.1.2. May be applied uniformly on variable widths of surface up to 5 m.



- 3.1.1.1.3. May be applied at readily determined and controlled rates from 0.2 to 5.4 L/m2 with uniform pressure, and with an allowable variation from any specified rate not exceeding 0.1 L/m2. Higher rate shall be applied for heavy tack coat areas as per Section 32 12 16.1 Section 3.2.5.
- 3.1.1.2. Capable of distributing asphalt material in uniform spray without atomization at temperature required.
- 3.1.1.3. Equipped with meter registering metres of travel per minute, visibly located to enable truck driver to maintain constant speed required for application at specified rate.
- 3.1.1.4. Equipped with pump having flow meter graduated in units of 5 L or less per minute passing through nozzles and readily visible to operator. Pump power unit to be independent of truck power unit.
- 3.1.1.5. Equipped with an easily read, accurate and sensitive device which registers temperature of liquid in reservoir.
- 3.1.1.6. Equipped with accurate volume measuring device or calibrated tank.
- 3.1.1.7. Equipped with nozzles of same make and dimensions, adjustable for fan width and orientation.
- 3.1.2. Hand sprayer: for small and/or inaccessible areas, a pressurized hand-held spray wand may be used.

3.2. APPLICATION

- 3.2.1. Obtain Contract Administrator's approval of surface before applying asphalt tack coat.
- 3.2.2. Dilute asphalt emulsion with water at 1:1 ratio for application. Mix thoroughly by pumping or other method approved by Airport.
- 3.2.3. Apply tack coat evenly to existing pavement surface and granular material at rate not to exceed 0.7L/m2 when diluted with water at 1:1 ratio.
- 3.2.4. Apply fog coat of emulsion between lifts of new asphalt paving at rate not to exceed 0.2L/m2 when diluted with water at 1:1 ratio.
- 3.2.5. Heavy tack coat on granular surfaces adjacent to operational surfaces as indicated on Drawings or as required for dust control to be carried out in two applications:
 - 3.2.5.1. Apply first coat at rate of 4.0 L/m2 when diluted with water at 1:1 ratio, and allow to penetrate and cure.
 - 3.2.5.2. Apply second coat at rate of 1.0 L/m2 when diluted with water at 1:1 ratio to seal surface.
- 3.2.6. Apply only on dry surface.
- 3.2.7. Paint contact surfaces of manholes and like structures with thin, uniform coat of asphalt tack coat material.
- 3.2.8. Do not apply asphalt tack coat when air temperature is less than 5°C or when rain is forecast within 2 h of application.
- 3.2.9. Apply tack coat only between asphalt lifts.
- 3.2.10. Evenly distribute localized excessive deposits of tack coat by brooming as directed by the Contract Administrator.
- 3.2.11. Where traffic is to be maintained, treat no more than one half of width of surface in one application.



- 3.2.12. Keep traffic off tacked areas until tack coat has set as directed by Contract Administrator.
- 3.2.13. Re tack contaminated or disturbed areas as directed by Contract Administrator.
- 3.2.14. Permit tack coat to set before placing asphalt paving.

- END -



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						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.	
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Rev	Date	Description	Drawn	Design	App'd		ORIGINAL DWG SIZE: A1 (59

				リー リー リー リー リー リー				
	- EXISTING GROU	JND	DIVER	r				
					EXACT INVERTS OF CONNECTIONS FROM OGS TO DIVERSION MANHOLE TO BE PROVIDED IN SHOP DRAWINGS FOR REVIEW AND APPROVAL			
			Ø					
,	48.90m OF 1050mmØ CONC. CLIII C76 STM @ 0.27%		10.63 W	10.63 SE		63.3 1050mmØ C0 STM (9m OF ONC.CLIV C76 E @ 0.58%	7
	14.09			14.05	14.05		14.07	
	2+120		2+139	2+140	2+160		2+180	



			9						
		11.00 NW 12.26 NE	11.00 SE 12.42 SW	PROPOSED STORM SEWER INVERTS, LENGTHS, AND GRA	DES				
14.22			14.25	ORIGINAL GROUND ELEVATIONS @ CENTERLINE					
		2+202	2+210	CHAINAGE					
	Client Project Number								
					6777 Client E -	7 Drawing Nui	nber		
	VICTORIA	AIF		JTHORITY	Drawing	g No.			
	STORMWATER SYSTEM REPLACEMENT C201								
	PLAN	Project 2121	Number -24006-(00	Rev. E				



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В	2024-07-05	50% DESIGN SUBMISSION	BL	HM	BMW	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		P
А	2024-06-07	30% DESIGN SUBMISSION	BL	HM	BMW	CONTRACTOR SHALL EXPOSE LOCATIONS OF ALL EXISTING FACILITIES BY HAND DIGGING OR HYDROVAC AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.		
Rev	Date	Description	Drawn	Design	App'd		ORIGINAL DWG	G SIZE: A1 (



	Client Project Number 6777 Client Drawing Number -	
VICTORIA AIRPORT AUTHORITY	Drawing No.	
STORMWATER SYSTEM REPLACEMENT	C202	
PLAN AND PROFILE	Project Number Rev. 2121-24006-00 E	

NOTES 1. SEE DWGS C501-C502 FOR RESTORATION WORKS C601-C603 FOR PLAN OF CONSTRUCTION OPERATIONS (PCO)





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Е	2025-02-14	ISSUED FOR ADDENDUM 3	KY	HM	BMW	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,	
D	2025-01-10	ISSUED FOR TENDER	KY	HM	BMW	SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR EMPLOYEES OR AGENTS, WITHOUT MCELHANNEY'S PRIOR WRITTEN CONSENT.	PE
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В	2024-07-05	50% DESIGN SUBMISSION	BL	HM	BMW	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	P
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Rev	Date	Description	Drawn	Design	App'd		ORIGINAL DWG SIZE: A1



	Client Project Number 6777
	Client Drawing Number
VICTORIA AIRPORT AUTHORITY	Drawing No.
STORMWATER SYSTEM REPLACEMENT	C203
PLAN AND PROFILE	Project Number Rev. 2121-24006-00 E

NOTES 1. SEE DWGS C501-C502 FOR RESTORATION WORKS C601-C603 FOR PLAN OF CONSTRUCTION OPERATIONS (PCO)





LAUNCH VIDEO



				P/	ACP S	Sewer F	Repo	rt					
Surveyed by: Thomas		Certificate No: U-1013-17814		_{Owner:} Victoria Air Authority	port	Surve Vict Aut	ey Customer coria Airp hority	r: oort		Drainage area: DOS		Sheet r	number:
Work order:	Pipeline segment ref: D2733X		Start date/ti 2017/06/	^{me:} 22 14:	Stre 33 Wi	et: Ilingdon Roa	d.				_{City:} District o	of Saanich	
Location details:					Ups D2	tream manhole No 733	o:			Rim to inve	ert:	Grade to invert:	Rim to grade:
Downstream manhol D2812	e No:		Rir	n to invert:	Gra	de to invert:	Rim to	grade:	S	ewer use: SW	Direction: D	Flow control: N	Height: 900
Width: Sh	ape: Mat	terial: Ln.m.	ethod: Pip 2.	e joint length: 5	То 1	tal length: 12.0	Leng 95.	th survey 0	ed:	Year laid:	Year rer	newed: Med VA	ia label: A
Purpose: Sewer of F	category: Pre-cle Z	eaning Date cleane	d: Wea 5	ther: Locat D	ion code:	Additional info:							
Starting acce	Eastir ss point:	ng:	No	rthing:		Elevation	:			Coordinate system:		GPS accuracy:	
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0.0	1	АМН									D27	33	
0.0	26	MWL				5					1-5%	6	
0.0	46	DSG V	S01			20		5	9				
12.2	176	DSG V	F01			20		5	9				
12.2	194	MWL				5					1-5%	6	
17.4	240	DSG V				5		5	7				
17.4	253	LL				45							



Surveyed by: Thomas		_{Owner:} Victoria Air Authority	port	St 2	art date/t 017/06	ime: 6/22	Upstream D2733	manhole No	:		Pipeline D273	segment ref: 3X	Sheet number:
Distance (Feet) (Meters)	Video Ref.	Group/ Modifier/ Descriptor Severity	Continuous Defect	S/M/L	Inche	Value s (mm)	%	Joint	Circun Lo	nferential cation	Image Ref.	Remarks	
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20.5	488	D					20				Willingdon Road-SD-June2017-D27 33-D2812 D at 20.5 m (D).jpg		
20.5	499	SCP	S02						3	9			
20.5	522	DSG V					20		4	8	Willingdon Road-SD-June2017-D27 33-D2812 DSGV at 20.5 m (D).jpg		
20.5	563	MGO										DEPTH: 2.63M MARKED ON SURFACE	
25.1	622	MGO										DEPTH: 2.54M MARKED ON SURFACE	
26.5	653	HSV							6	7	Willingdon Road-SD-June2017-D27 33-D2812 HSV at 26.5 m (D).jpg		
28.5	713	HSV	S03						6	7	Willingdon Road-SD-June2017-D27 33-D2812 HSV at 28.5 m (D).jpg		
30.2	754	MGO										DEPTH: 2.56M MARKED ON SURFACE	
35.9	1011	MGO										DEPTH: 2.67M MARKED ON SURFACE	
40.6	1093	MGO										DEPTH: 2.67M MARKED ON SURFACE	
40.6	1094	D	S04				10				Willingdon Road-SD-June2017-D27 33-D2812 D at 40.6 m (D).jpg		
43.5	1144	HSV	F03						6	7			
45.3	1186	MGO										DEPTH: 2.65M MARKED ON SURFACE	
45.6	1201	D					20						
47.5	1222	RFJ						J	9				



Surveyed by: Thomas		_{Owner:} Victoria Air Authority	port	St 2	art date/time: 017/06/22		Upstream D2733	manhole No	:		Pipeline D273	segment ref: SI 3X	neet number:
Distance (Feet) (Meters)	Video Ref.	Group/ Modifier/ Descriptor Severity	Continuous Defect	S/M/L	Value Inches (mi 1st	e m) 2nd	%	Joint	Circun Lo At/From	nferential cation to	Image Ref.	Remarks	
50.3	1261	MGO										DEPTH: 2.50M MARKED ON SURFACE	
52.3	1290	RFJ						J	7	9			
55.2	1338	MGO										DEPTH: 2.40M MARKED ON SURFACE	
56.0	1359	D					20				Willingdon Road-SD-June2017-D27 33-D2812 D at 56.0 m (D).jpg		
57.2	1388	HSV							6	7	Willingdon Road-SD-June2017-D27 33-D2812 HSV at 57.2 m (D).jpg		
60.2	1431	MGO										DEPTH: 2.45M MARKED ON SURFACE	
65.6	1486	MGO										DEPTH: 2.45M MARKED ON SURFACE	
67.8	1513	IS						J	1	5			
69.5	1550	D	F04				10						
69.5	1560	D	S05				20					15-20%	
70.2	1583	MGO										DEPTH: 2.54M MARKED ON SURFACE	
77.4	1663	IS						J	8	10			
77.5	1705	HSV							6	7	Willingdon Road-SD-June2017-D27 33-D2812 HSV at 77.5 m (D).jpg		
77.5	1745	MGO										DEPTH: 2.40M MARKED ON SURFACE	
80.7	1773	MGO										DEPTH: 2.40M MARKED ON SURFACE	
89.5	1862	MGO										DEPTH: 2.35M MARKED ON SURFACE	



Surveyed by: Thomas		_{Owner:} Victoria Airport Authority		Start date/time: 2017/06/22			Upstream r D2733	manhole No	:			Pipeline segment ref: Sheet nur D2733X		
Distance (Feet) (Meters)	Video Ref. I	Group/ Modifier/ Descriptor Severity	Continuous Defect	S/M/L	Inche 1st	Value es (mm) 2nd	%	Joint	Circun Lo At/From	nferential cation to	Image Ref.	Rem	arks	
91.3	1878	JSL		L							Willingdon Road-SD-June2017 33-D2812 JSL at 9 (D).jpg	7-D27 1.3 m		
91.8	1893	нүү						J	3	10	Willingdon Road-SD-June2017 33-D2812 HVV at m (D).jpg	7-D27 91.8		
92.8	1960	D	F05				20					15	5-20%	
94.7	2001	JOL		L										
94.7	2009	DNG V					5	J	7	12	Willingdon Road-SD-June2017 33-D2812 DNGV at m (D).jpg	7-D27 t 94.7		
95.0	2051	HSV							5	7	Willingdon Road-SD-June2017 33-D2812 HSV at m (D).jpg	7-D27 95.0		
95.0	2087	SCP	F02						3	9				
95.0	2113	MGO										DE M	EPTH: 2.30M ARKED ON SURFA	ACE
95.0	2148	MSA										ВС	OTTOM OF PIPE R	OTTED OUT



































Project Name: Willingdon Road-SD-June2	Pi	peline segment ref: D2733X	Cit [.] District of	^{y:} Saanich	_{Street:} Willingdon Road.			
Start date/time: 6/22/2017	Width:	Height: 900	Material: CMP	Location c	ode:	Weather: 5		
Direction: Downstream	Length surveyed: 95.0	Surveyed Thomas	l by:		Additional info	:		

rical tables of the second sec

D2812

Distance: 20.5 D: Deformed

Clock from: Clock to: Rating: 5 SZM/L: Dimension1 Dimension2 28 Remarks: Distance: 40.6 D: Deformed

Clock from: Clock to: Rating: 4 S/M/L: Dimension1 Dimension2 2 10 Remarks:

56.1 H. MH START: D2733 MH STOP: D2812

Distance: 20.5 DSGU: Deposits Settled Gravel

Clock fromt Clock to: 3 Rating: 3 S-M-L: Dimension1 Dimension2 20 Remarks:

Distance: 26.5 HSU: Hole Soil Visible

Clock from: 5 Clock to: 7 Rating: 5 S/M/L: Dimension: Dimension: Remarks:

Distance: 12.5 HSU: Hole Boil Visible

10.0

Clock from: Clock to: 7 Rating: 5 S/M/L: Dimension1 Dimension2 Remarks:

Distance: 28.5 HSU: Hole Soil Visible

Clock from: 6 Clock to: 7 Ratins: 5 S/M/L: Dimension1 Dimension2

Remarkst

Distance: 28.5 HSU: Hole Soil Visible

Б

Clock from: Clock to: 7 Rating: 5 S/M/L: Dimension1 Dimension2 Remarks:

Distance: 57.2 HSU: Hole Soil Visible

Clock from: 6 Clock to: 7 Rating: 5 S/H/L: Dimension1 Dimension2 Remarks:

Distance: 77.5 HSU: Hole Soil Visible

Clock from: 6 Clock to: 7 Pating: 5 M/L: Dimension1 Dimension2

Remarkst


91.9 M. MH START: D2733 MH STOP: D2812

91.9 N. HH START: D2733 HH STOP: D2812

91.9 H. MH START: D2733 MH STOP: D2812

Distance: 91.3 JSL: Joint Separated Large

Clock from: Clock to: Ratins: 2 SoM-L: L Dimension1 Dimension2 Remarks:

Distance: 95.0 DNGU: Deposits Ingressed Gravel

Clock from: 7 Clock to: 12 Ratine: 2 S/M/L: Dimension1 Dimension2 2 5 Remarks:

95.0 H. MH START: 02733 MH STOP: 02812

95.0 H. MH START: D2733 MH STOP: D2812

95.0 M. MH Start: D2733 MH Stop: D2812

95.0 H. MH Start: D2733 MH Stop: D2812

95.0 H. NH START: 02738 NH STOP: 02812

95.0 M. MH START: D2733 MH STOP: D2812





Tux: 407 -	125 1505								
					PAC	P Sewer	Report		
Operator: Grace Darl	ling	Certificat U-614	e number: -06018249	System Own Victoria Authroit	^{ner:} Airport Y	Sur Via Au	vey Customer: ctoria Airport Ithority	Drainage Area:	Sheet No.
Work order no.	: Mainline II D2444): (Sta 20	art date/time: 16/10/11	3:22	Address: Willingdon Rd			_{City:} North Saanich
Further Locatio	n Detai l s:					Upstream node: D2444		Depth:	Grade to Invert: Rim to Grade
Downstream no D2020	ode:			Depth:		Grade to Invert:	Rim to Grade:	Use of Sewer: SW	Direction: Flow Control: Pipe height: D N 1,000
Pipe width:	Pipe shape: C	Pipe type: RCP	Ln. Method:	Joint distance:		Asset length: 48.9	Surveyed footage: 47.9	Year laid:	Year Rehabilitated: Tape/Media
Reason: Se	ewer Category	Pre-Cleaning N	Cleaned:	Weather: S	urface	Comments			
Starting a	iccess poin	Label for XCOO	RD	Label for YCOC	RD	Label fo	r ZCOORD	Label for COORDINA	ATE_SYSTEM Label for GPS_ACCURACY
Distance (Fee (Meters)	et) Video	Ref. Group/ Descriptor	Modifier/ Continu r Severity	uous Defect S/M/L	V Inches 1st	/alue (mm) % 2nd	Joint Circumfere Locatio At/From	ntial Image Ref. n to	Remarks -
0.0	2	AE P							AT INLET D2455WEST
0.0	20	M W L				0			
1.3	91	IS					4	8 Willingdon Rd-SD-Oct2 016-D2455 WEST-D200 2WEST IS at 1.3 m (D).jpg	
1.5	150	M W L				5			
5.9	316	M G O							LOCATION DEPTH 2.07M



Operator: Grace D	Darling		^{Systerr} Victo Auth	^{Owner} ria Airp roity	ort		Sta 20	rt date/tii)16/10,	me: /11		Jpstream D2444	n node:				Mainline D2444	ID: 4X	Sheet No.
Distance (Fee (Meters)	et) Video	o Ref. D	Group/ M escriptor S	lodifier/ Severity	Continu Defec	ous ct g	S/M/L	۷ Inches 1st	/alue s (mm) 2nc	4	%	Joint	Circumf Loca At/From	erential tion to	Image Re	ef.	Remarks	
8.0	391		M W L							5							1%	
15.6	563		IS										4	8				
22.9	718		CL										12		Willingdon Rd-SD-Oct2 016-D2455 WEST-D200 2WEST CL at 22.9 m (D).jpg			
24.5	846		СГ										12					
27.8	965		M W L							0								
31.5	1044		CL										10		Willingdon Rd-SD-Oct2 016-D2455 WEST-D200 2WEST CL at 31.5 m (D).jpg			
31.5	1078		CL										5		Willingdon Rd-SD-Oct2 016-D2455 WEST-D200 2WEST CL at 31.5 m (D)0.jpg			
32.5	1136		O BJ							5		J	5	7	Willingdon Rd-SD-Oct2 016-D2455 WEST-D200 2WEST OBJ at 32.5 m (D).jpg		STICK IN JOINT	
32.8	1196		СГ										10					
32.8	1210		СГ										5					



Operator: Grace [Darling		^{System Ow} Victoria Authroit	ner Airport ty		St.	art date/tir 016/10/	ne: '11	Up D	stream no 2444	ode:				Mainline II D2444>	o: ≮	Sheet No.
Distance (Fe (Meters)	et) Vide	o Ref. Gro Desc	up/ Modif riptor Seve	fier/ Co rity	ntinuous Defect	S/M/L	V Inches 1st	alue (mm) 2nd		%	Joint	Circumfe Loca At/From	erential tion to	Image Ref.	R	emarks	
32.8	1228	D							5								
33.8	1494	FH 2										12	6	Willingdon Rd-SD-Oct2 016-D2455 WEST-D200 2WEST FH2 at 33.8 m (D).jpg			
33.9	1547	JO M												Willingdon Rd-SD-Oct2 016-D2455 WEST-D200 2WEST JOM at 33.9 m (D).jpg			
35.3	1659	FH 2										12	6				
35.4	1679	M M C														ТО СМР	
35.4	1694	M W L							5							WATER COMING F PIPE	ROM UNDER
36.9	1793	SC P										5	7				
44.9	2013	SC P										1	2	Willingdon Rd-SD-Oct2 016-D2455 WEST-D200 2WEST SCP at 44.9 m (D).jpg			
46.9	2089	D							3 0					Willingdon Rd-SD-Oct2 016-D2455 WEST-D200 2WEST D at 46.9 m (D).jpg		WHERE THIS LINE WITH THE EAST P	INTERSECT IPE



Operator: Grace Darl	ing	System Owner Victoria Air Authroity	port	Sta 20	art date/time: 016/10/11	Upstream D2444	node:			Mainline ID: D2444X	Sheet No.
Distance (Feet) (Meters)	Video Ref.	Group/ Modifier/ Descriptor Severity	Continuous Defect	S/M/L	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From to	Image Ref	. Remarks	
47.9	2267	A M H								JUST PAST D2002	
47.9	2301	SC P						5 7			







Project Name: Willingdon Pd-SD-Oct2010	6	Mainline ID: D2444X	Cit North S	_{ty:} Saanich	Wil	Address: Willingdon Rd		
Start date/time: 11/10/2016	Pipe width:	Pipe height: 1,000	Pipe type: RCP	Surfac	ce condition:	Weather: 1		
Direction: Downstream	Surveyed footage: 47.9	Operator: Grace Darling			Comments			





















Distance: 22.9 CL: Crack Lonsitudinal

Sec. 1

Clock from: 12 Clock to: Rating: 2 S/M/L: Dimension1 Dimension2 Remarks: Distance: 31.5. CL: Crack Loneitudine1

Clock from: 19 Clock to: Rating: 1 S/M+L: Dimension1 Dimension2

Remarks

Distance: 31.5 CL: Crack Lonsitudinal

```
Clock from: 5
Clock to:
Rating: 2
SYM/L:
Dimension1
Dimension2
Remarks:
```

Distance: 32.5 OBJ: Obstacle In Joint

```
Clock from: 5
Clock to: 7
Rating: 2
Sym/L:
Dimension1
Dimension2
5
Remarks: STICK IN JOINT
```

```
Distance: 33.9
33.9 H. e Lonsitudinal Rinsen 2
```

```
Clock from: 12
Clock to: 6
Rating: 4
S/M/L:
Dimension1
Dimension2
Remarks:
```

Distance: 33.9 JOM: Joint Offset Hedium

Clock from: Clock to: Rating: 1 S/M/L: K Dimension1 Dimension1 Remarks:

33.9 M. HH START: D24554EST HH STOP: D20024EST

```
Distance: 44.9
SCP: Surface Corrosion Metal Pipe
```

```
Clock from:
Clock to: 2
Rating: 3
S/M/L:
Dimension1
Dimension2
Remarks:
```

Distance: 46.9 D: Deformed

Clock from: Clock to: Rating: 5 SXN/L: Dimension1 Dimension2 30 Remarks: TOP OF PIPE IS PUSHED IN WHERE THIS LINE INTERSECT WITH THE EAST PIPE





			DESIGN	МН			VICTORIA
			DRAWN	PB			1.01.01.01
			CHECKED	JW		SUITE 101 - 3795 CAREY ROAD, VICTORIA, BC, V87 6T8	MUNICIPA
			APPROVED	• MH		TEL (250) 477-2206 FAX (250) 477-2207	WILLINGD
			DATE	AUGUST 2017			
CIED DCK RETAINING WALL	17 APR 2019 3 OCT 2017	'IM PR	SCALE	1:250		©-PARSONS INC. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE DEDEDDINGED IN WHOLE OF IN DAT BY ANY	
	17 AUG 2017	JW				MEANS WITHOUT THE EXPRESS WRITTEN PERMISSION OF PARSONS INC.	
TION	DATE	BY			SEAL		



			DESIGN MH			VICTORIA AIRPORT AUTHORITY
			CHECKED APPROVED		SUITE 101 - 3795 CAREY ROAD, VICTORIA, BC, V8Z 6T8 TEL (250) 477-2206 FAX (250) 477-2207	MUNICIPAL INFRASTRUCTURE 2017 WILLINGDON ROAD STORMWATER INFRASTRUCTURE IMPROVEMEN1
TED DCK RETAINING WALL	17 APR 2019 3 OCT 2017	PB JW	DATE AUGUST 2017 SCALE		©-PARSONS INC. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WITHOUT THE EXPRESS WRITTEN PERMISSION OF PARSONS INC.	MODULAR BLOCK RETAINING WALL
ΠΟΝ	DATE	BY		SEAL		

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	No.	DATE	ISSUE	No.	REVISION DESCRIPT





			DESIGN	МН			VICTORIA
			DRAWN	PB			101010
			CHECKED	JW		SUITE 101 - 3795 CAREY ROAD, VICTORIA BC, VRZ 6T8	MUNICIP
			APPROVED	мн		TEL (250) 477-2206 FAX (250) 477-2207	WILLING
			DATE	AUGUST 2017			
TED DCK RETAINING WALL	17 APR 2019 3 OCT 2017	JW JW	SCALE	AS NOTED		©-PARSONS INC. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPONICED IN WHOLE OF IN BADT BY ANY	
	17 AUG 2017	JW				MEANS WITHOUT THE EXPRESS WRITTEN PERMISSION OF PARSONS INC.	
ΓΙΟΝ	DATE	BY			SEAL		

A AIRPORT AUTHORITY	SHEET No.
AL INFRASTRUCTURE 2017 DON ROAD STORMWATER INFRASTRUCTURE IMPROVEMENTS	4
	Sheet 4 of 4 rev. (B)
TIONS AND DETAILS	DRAWING No.
	476340-4

'KEE KLAMP' HANDRAIL TO MMCD DWG NO C14 FOOTING DETAIL AS PER MMCD DWG C13 'IN EARTH'

_ 300 THICK CHANNEL BOTTOM COBBLE, _ TYPICAL (RIFFLES NOT SHOWN FOR CLARITY) SECTION C NTS

- RIFFLE BY OTHERS, TYPICAL


					PAC	P Sev	wer I	Report				
^{Operator:} Grace Dar	System C Victori Author	^{wner:} a Airport ity		^{Surv} Vic Aut	ey Customer: toria Airport thority	Drainage Area:		Sheet No.				
Work order no.	: Mainline II D2455)): (Star 201	t date/time: .6/10/11	14:42	Address: Willing	jdon Rd		_{City:} North Saanich			
Further Locatio	n Details:					Upstream D2455	n node:		Depth:	Grade to Invert: Rim to Grade		
Downstream no D2002	ode:			Depth:		Grade to	Invert:	Rim to Grade:	Use of Sewer: SW	Direction: D	Flow Control: Pi	pe height: .,000
Pipe width: Pipe shape: Pipe type: Ln. Method: C RCP				Joint distanc	e:	Asset le 49.2	ngth:	Surveyed footage: 47.2	Year laid:	Year Rehabilitated: Tape/Media		
Reason: So A	ewer Category	Pre-Cleaning Cl N	leaned:	Weather: 1	Surface	Co	nments					
Starting a	access poir	Label for XCOORI)	Label for YC	OORD		Label for	ZCOORD	Label for COORDIN	ATE_SYSTEM L	abel for GPS_ACCURAC	'
Distance (Fee (Meters)	et) Video	Ref. Group/ Descriptor	Modifier/ Continue Severity	ous Defect S/M/L	Inches 1st	Value (mm) 2nd	%	Joint Circumferen Location At/From	tial Image Ref. to	Remarks -		
0.0	2	AE P								INLET D	02455EAST	
0.0	21	M W L					5			1-5%		
1.0	106	M W LS					5					
6.9	247	IS						4 5	Willingdon Rd-SD-Oct2 016-D2455E AST-D2002E AST IS at 6.9 m (D).jpg			
8.0	292	M W L					5			1-5%		



Operator: Grace Darling		s /	System Owner Victoria Airport Authority			Start date/time: 2016/10/11			Upstream node: D2455				Mainline ID: D2455X		Sheet No.	
Distance (Fee (Meters)	et) Video	Ref. Group Descrip	o/ Modifier/ otor Severity	Continuous Defect	S/M/L	V Inches	/alue 5 (mm)		%	Joint	Circumfe Loca	erential tion	Image Ro	ef. I	Remarks	
8.0	317	IS	_			lst	2nd				At/From	to 7				
13.0	536	CL									12		Willingdon Rd-SD-Oct2 016-D2455E AST-D2002E AST CL at 14.9 m (D).jpg			
13.2	406	C H2									12	6	Willingdon Rd-SD-Oct2 016-D2455E AST-D2002E AST CL at 13.2 m (D).jpg			
14.9	503	С Н2									12	6				
15.7	578	CL									12					
15.7	620	IS									5	7				
35.0	901	JO M											Willingdon Rd-SD-Oct2 016-D2455E AST-D2002E AST JOM at 35.0 m (D).jpg		OFFSET JOINT M FEEDING WEST I	IGHT BE .INE
36.1	964	M M C													ТО СМР	
36.1	977	SC P									5	7				
46.5	1113	O BZ						1 0			5	7			SAND BAGS IN P	IPE AT MH
47.2	1202	SC									5	7				



Operator: Grace Dar		System Owner Victoria Airport Authority				Start date/time: 2016/10/11			eam node: 55				Mainline ID: D2455X		Sheet No.	
Distance (Feet) (Meters)	Video F	Ref. Grou Descri	p/ Modifi otor Sever	er/ (ity	Continuous Defect	S/M/L	\ Inche 1st	/alue s (mm) 2nd	%	Joint	Circumfer Locatio At/From	rential on to	Image Ref	Remarks		
47.2	1215	A M H												AT D2002		













Distance: 6.9 IS: Infil Stain

Clock from: 4 Clock to: 5 Rating: S/M/L: Dimension1 Dimension2 Remarks:

Distance: 14.9 CL: Crack Lonsitudinal

Clock from: 12 Clock to: Rating: 2 S/M/L: Dimension1 Dimension2 Remarks:

Distance: 13.2 CL: Crack Lonsitudinal

Clock from: 12 Clock to: Rating: 2 SYM/L: Dimension1 Dimension2 Remarks:

Distance: 35.0 JOM: Joint Offset Hedium

Clock from: Clock to: Rating: 1 S/M/L: M Dimension1 Dimension2 Remarks: SPF66

Remarks: SPESET JOINT NIGHT BE FEEDING

