

November 29<sup>th</sup>, 2019

**BY E-MAIL:** [Mike.Giampa@ottawa.ca](mailto:Mike.Giampa@ottawa.ca)

City of Ottawa  
Planning and Growth Management Department  
110 Laurier Ave. W, 4<sup>th</sup> Floor  
Ottawa ON, K1P 1J1

**Attention: Mr. Mike Giampa  
Project Manager, Infrastructure Approvals**

Dear Mr. Giampa:

**Reference: 1053, 1075 and 1145 March Road  
RMA Application  
Our File No.: 116132**

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A Transportation Impact Assessment Report (TIA), was submitted to the City in October 2018 in support of a Draft Plan of Subdivision and Zoning By-law Amendment applications for 1053, 1075 and 1145 March Road.

The roadway modifications associated with this development include the development of a new four-legged signalized intersection along March Road at the proposed Street 1 access. The proposed roadway modifications have been updated to address City comments regarding the east-west multi-use pathway.

Please find attached the required documentation to initiate the Roadway Modification Approval process for the roadway modifications associated with the above-noted development:

- Key Plan (PDF)
- Functional Design Drawing (PDF)
- 1:500 Functional Design Drawing (PDF)
- Preliminary Cost Estimate (PDF)
- Intersection turning movements (PDF)

Digital copies of the drawings will be provided when City comments are provided and addressed.

Contact information for the proponent is as follows:

CU Developments Inc.  
210 Gladstone Avenue, Suite 2001  
Ottawa Ontario K2P 0Y6  
Canada

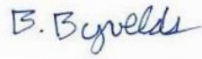
Attention. Jim Burghout  
Email: [jim.burghout@claridgehomes.com](mailto:jim.burghout@claridgehomes.com)

613-233-6030

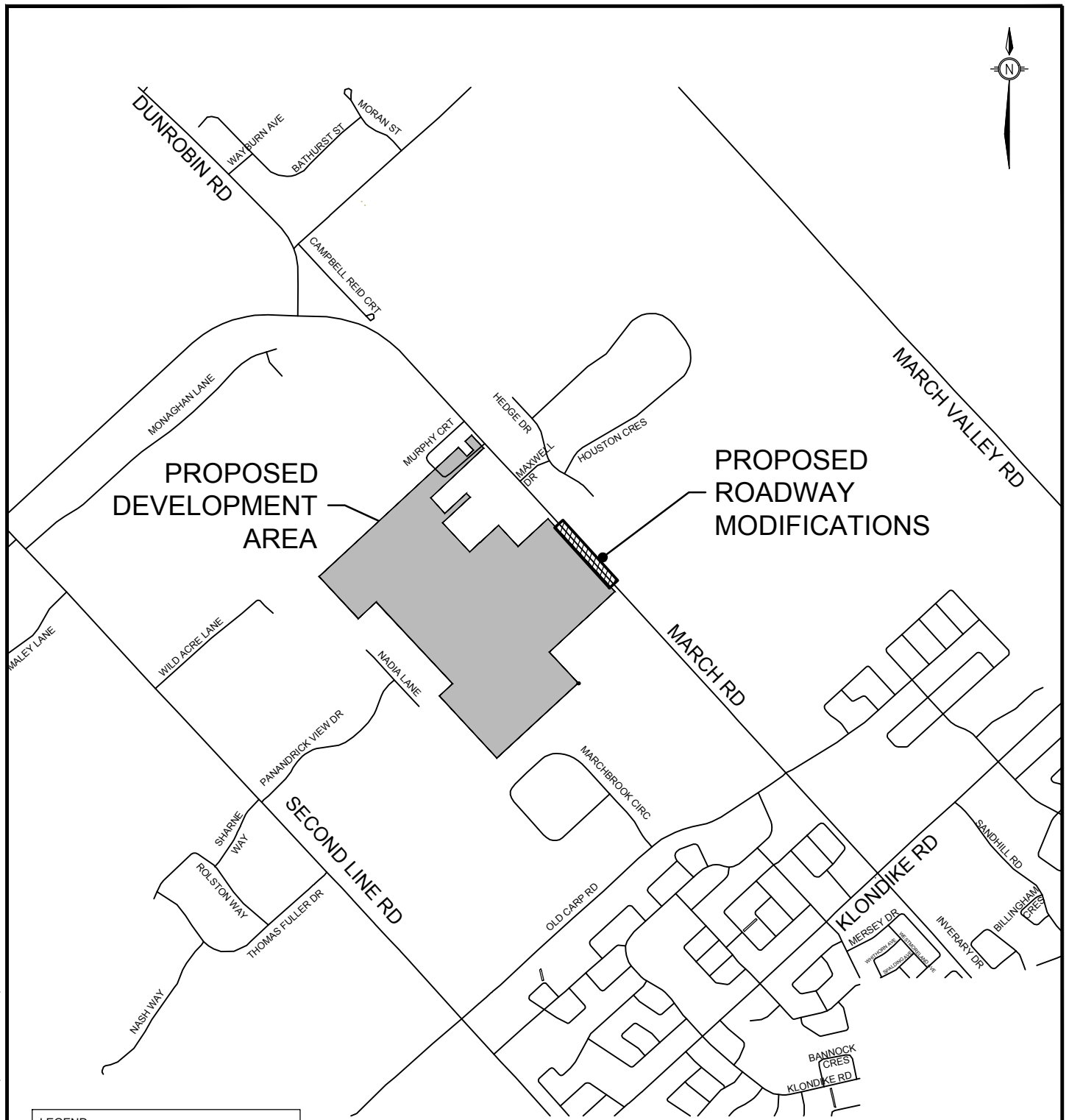
Should you require anything further please feel free to call.



Yours truly,

**NOVATECH**



Brad Byvelds, P. Eng.  
Project Coordinator | Transportation/Traffic



LEGEND:	
	PROPOSED ROADWAY MODIFICATION
	PROPOSED DEVELOPMENT AREA

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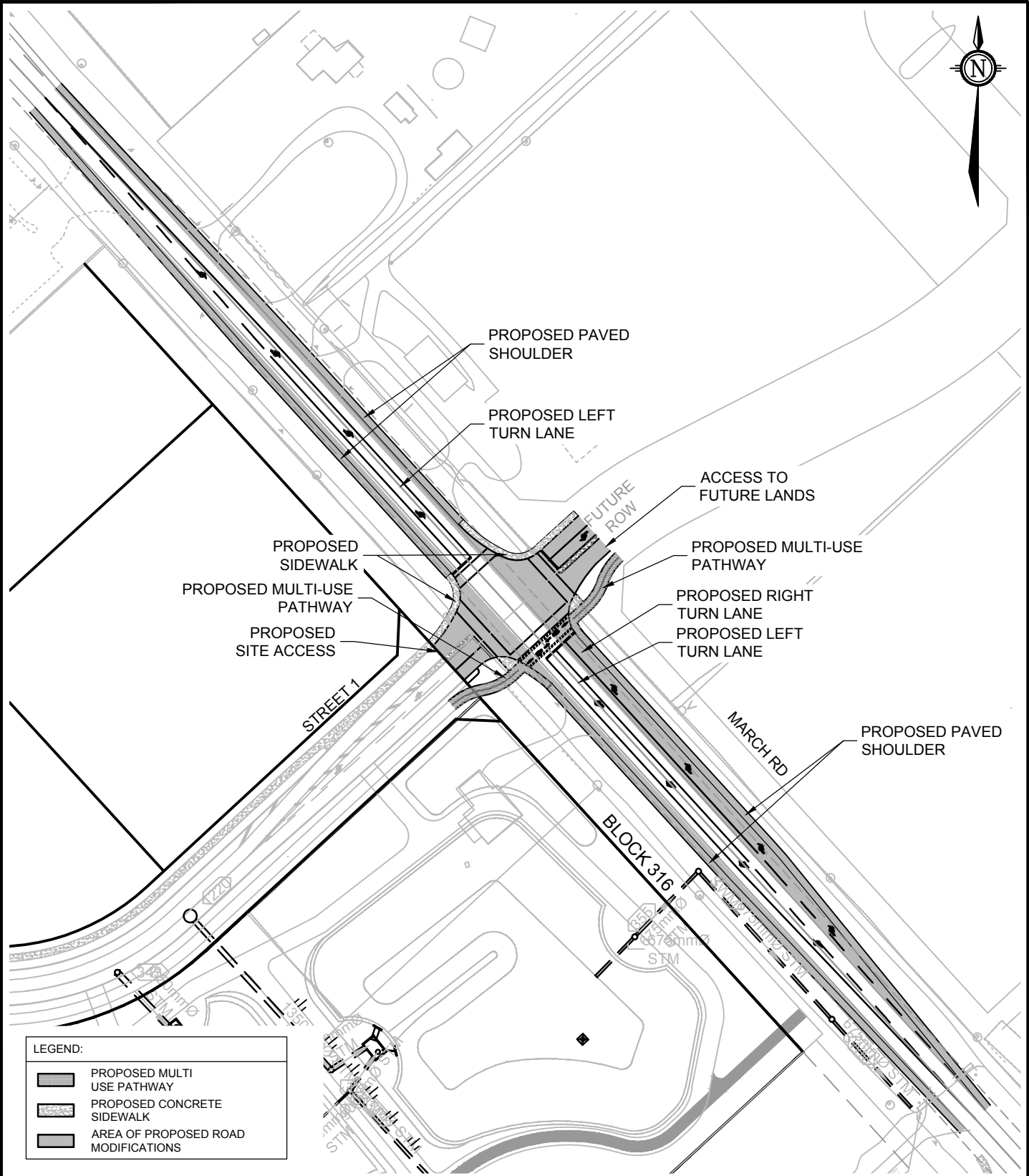
TRANSPORTATION SERVICES  
DEPARTMENT

**KEYPLAN  
MARCH ROAD  
AT  
STREET 1 (KANATA NORTH  
URBAN EXPANSION AREA)**

Transportation Engineering Services

Approved By:	XXXX
Completed By:	NOVATECH
Scale:	Date:
N.T.S.	NOV 2019

Drawing No.:  
  
**RMA-2019  
-TES-????**



**LEGEND:**

	PROPOSED MULTI USE PATHWAY
	PROPOSED CONCRETE SIDEWALK
	AREA OF PROPOSED ROAD MODIFICATIONS

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TRANSPORTATION SERVICES  
DEPARTMENT

**PROPOSED ROADWAY  
MODIFICATIONS  
MARCH ROAD  
AT  
STREET 1 (KANATA NORTH  
URBAN EXPANSION AREA)**

Transportation Engineering Services

Approved By:		XXXX
Completed By:		NOVATECH
Scale:	Date:	
N.T.S.	NOV 2019	

Drawing No.:  
  
**RMA-2019  
-TES-???**



**CU DEVELOPMENTS**  
**STREET 1 MARCH ROAD INTERSECTION**  
**COST ESTIMATE**

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT RATE	TOTAL AMOUNT
<b>SECTION A - Earthworks</b>					
1	Traffic Management	1.00	LS	\$25,000.00	\$25,000.00
2	Erosion and Sediment Control	1	LS	\$10,000.00	\$10,000.00
3	Excavation and Grading (including tie-in to existing ditch)	1	LS	\$35,000.00	\$35,000.00
4	Topsoil Stripping	1,100	m <sup>2</sup>	\$5.50	\$6,050.00
5	Realign and Regrade Existing Ditch (including any existing culvert realignments)	130	m	\$40.00	\$5,200.00
<b>SUBTOTAL - SECTION A</b>					<b>\$81,250.00</b>
<b>SECTION B - Storm Sewer</b>					
1	500mm CSP Culvert	60.0	m	\$550.00	\$33,000.00
2	Extend Existing Box Culvert	3.0	m	\$2,500.00	\$7,500.00
<b>SUBTOTAL - SECTION B</b>					<b>\$40,500.00</b>
<b>SECTION C - Road Works</b>					
1	Roadway Filter Fabric	3,075	m <sup>2</sup>	\$3.00	\$9,225.00
2	Subexcavation	470	m <sup>3</sup>	\$50.00	\$23,500.00
<b>Local Roadway</b>					
3	Granular B, Type II (450mm)	3,075	m <sup>2</sup>	\$18.00	\$55,350.00
4	Granular A (150mm)	3,075	m <sup>2</sup>	\$12.00	\$36,900.00
5	40mm Superpave 12.5mm PG 58-34	1,675	m <sup>2</sup>	\$18.50	\$30,987.50
6	50mm Superpave 19.0mm PG 58-34	1,675	m <sup>2</sup>	\$20.50	\$34,337.50
7	50mm Superpave 19.0mm PG 58-34	1,675	m <sup>2</sup>	\$20.50	\$34,337.50
8	Asphalt Shoulder (80mm)	1,400	m <sup>2</sup>	\$25.00	\$35,000.00
9	Multi-Use Asphalt Pathway	168	m <sup>2</sup>	\$70.00	\$11,760.00
10	Curb				
	a) Barrier	57	m	\$70.00	\$3,990.00
11	Sidewalk				
	a) 1.8m width - Concrete	109	m	\$115.00	\$12,535.00
12	Concrete Median				
	a) 1.5m width - Concrete	17	m <sup>2</sup>	\$80.00	\$1,360.00

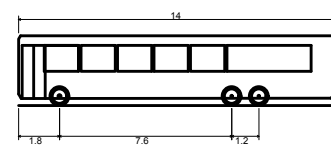
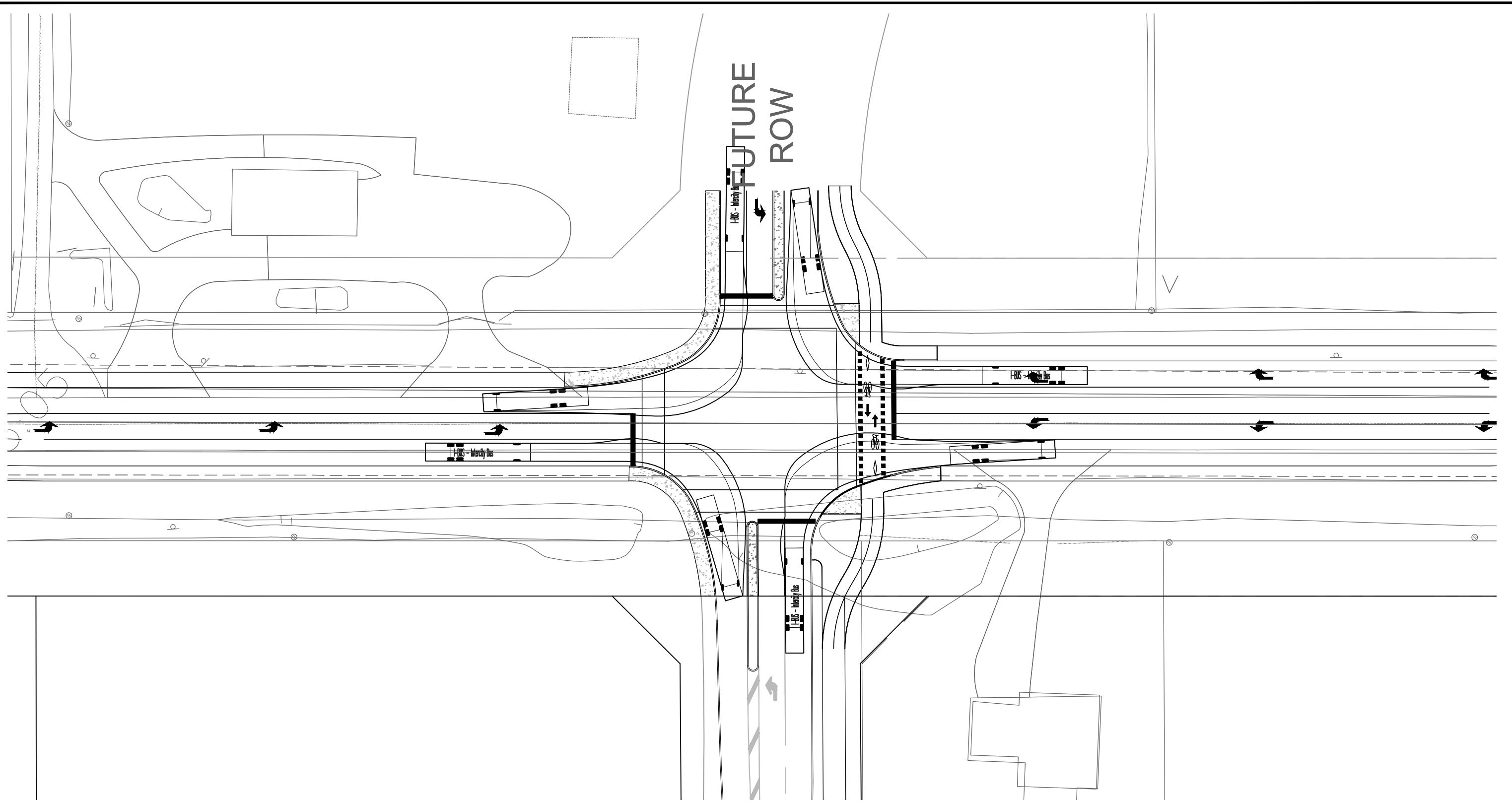
**CU DEVELOPMENTS**  
**STREET 1 MARCH ROAD INTERSECTION**  
**COST ESTIMATE**

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT RATE	TOTAL AMOUNT
13	Removals				
	a) Saw-Cut and Key Grind Existing Asphalt	765	m	\$15.50	\$11,857.50
	b) Asphalt Removal (existing driveway)	245	m <sup>2</sup>	\$10.50	\$2,572.50
	c) Removal Gravel Shoulder	2,130	m <sup>2</sup>	\$7.00	\$14,910.00
	d) Relocate Existing Traffic Signs	2	ea	\$150.00	\$300.00
14	Line Painting				
	a) Pavement Markings	775	m	\$5.50	\$4,262.50
	b) Pavement Symbols	12	ea	\$180.00	\$2,160.00
<b>SUBTOTAL - SECTION C</b>					<b>\$325,345.00</b>
<b>SECTION D - Utilities</b>					
1	Streetlight Trenching c/w Sand Bedding and Sand Backfill				
	a) Boulevard	390	m	\$36.50	\$14,235.00
2	Streetlighting				
	a) New Fixture, Poles, Brackets, Base	8	ea	\$5,000.00	\$40,000.00
	b) New Fixture, Brackets, Mounted on Joint Use	4	ea	\$2,500.00	\$10,000.00
	c) 75mm Dia. PVC Streetlight Duct	365	m	\$8.50	\$3,102.50
	d) 2x75mm Dia. Conc. Encased PVC Streetlight Duct	100		\$50.00	\$5,000.00
	e) 3 - #4 AWG Copper (B,W) + #4 GRND	525	m	\$30.00	\$15,750.00
	f) Streetlight Disconnect (EB99)	1	ea	\$9,500.00	\$9,500.00
3	Utility Pole Overhead Line Adjustment	4	ea	\$5,000.00	\$20,000.00
4	Utility Pole Relocation	2	ea	\$17,500.00	\$35,000.00
5	Signalized Intersection (including all hardware and underground traffic plant)	1	LS	\$325,000.00	\$325,000.00
<b>SUBTOTAL - SECTION D</b>					<b>\$477,587.50</b>
<b>SECTION E - Landscaping</b>					
1	Topsoil, Seed and Mulch	720	m <sup>2</sup>	\$15.00	\$10,800.00
<b>SUBTOTAL - SECTION E</b>					<b>\$10,800.00</b>
<b>TOTAL</b>					<b>\$935,482.50</b>

Notes:

- 1) Granulars for the asphalt shoulder included in the roadway Granular 'A' and Granular 'B' items.
- 2) Streetlighting based on an average spacing of 1/50m and an additional 4 for the intersection.
- 3) Assume Streetlighting on one side only behind shoulder c/w pole, too much spacing between hydro poles to accommodate.
- 4) Assume Hydro available at any utility pole for streetlighting.

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I-BUS - Intercity Bus  
 Overall Length 14.000m  
 Overall Width 2.400m  
 Overall Body Height 3.084m  
 Min Body Ground Clearance 0.319m  
 Track Width 2.400m  
 Lock-to-lock time 4.00s  
 Curb to curb Turning Radius 13.900m

**NOVATECH**

Engineers, Planners & Landscape Architects  
 Suite 200, 240 Michael Cowpland Drive  
 Ottawa, Ontario, Canada K2M 1P6

Telephone (613) 254-9643  
 Facsimile (613) 254-5867  
 Website www.novatech-eng.com

CLARIDGE/UNIFORM  
 DEVELOPMENT

MARCH ROAD/STREET 1  
 TURNING MOVEMENTS

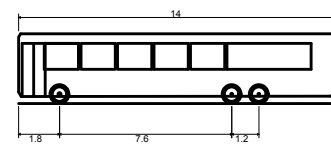
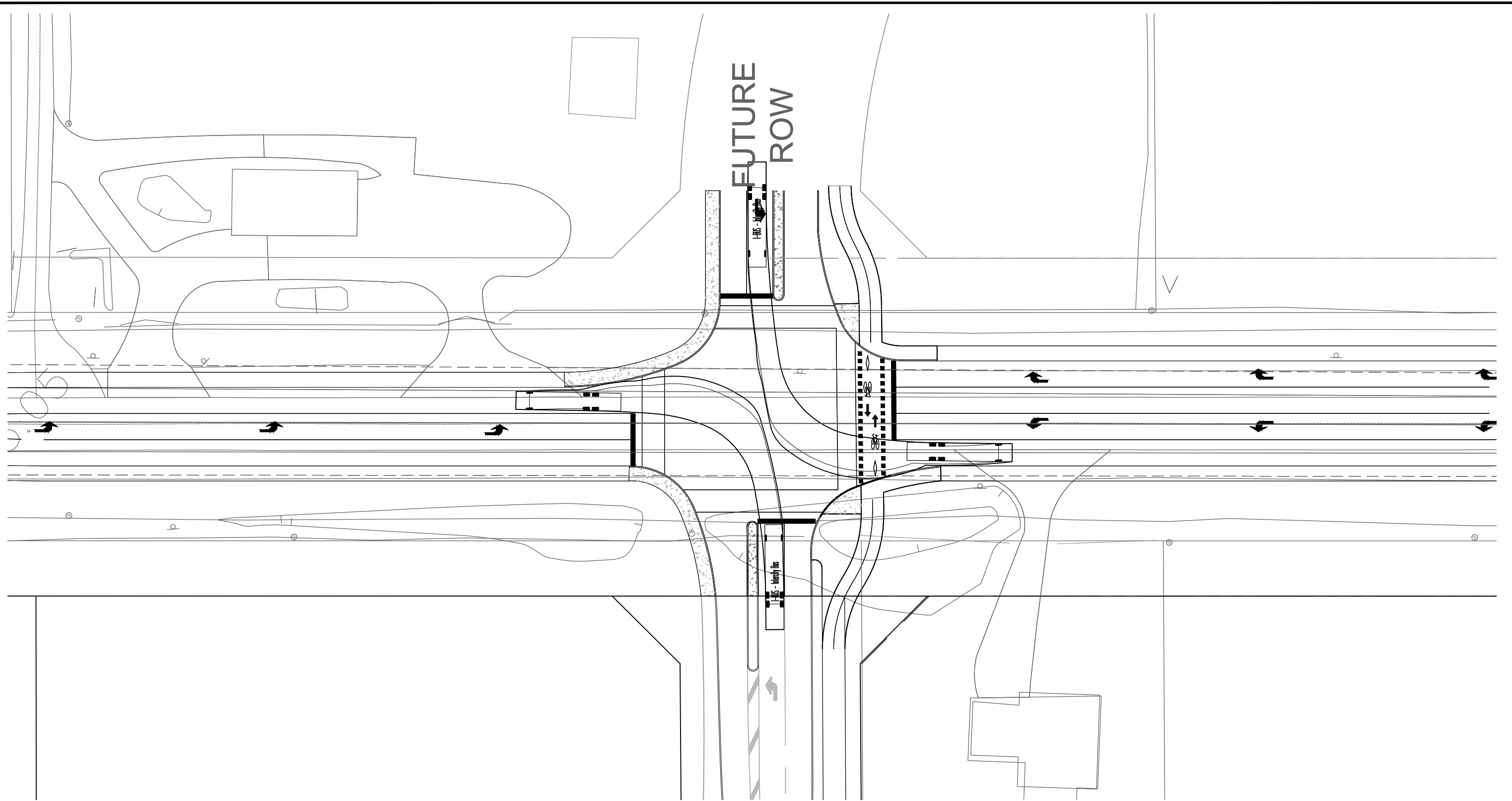
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DATE NOV 2019 JOB 116132 FIGURE TM-1

CUT11V17 DWG 270mm X 420mm



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 DEVELOPMENT

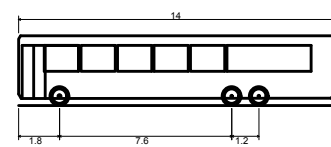
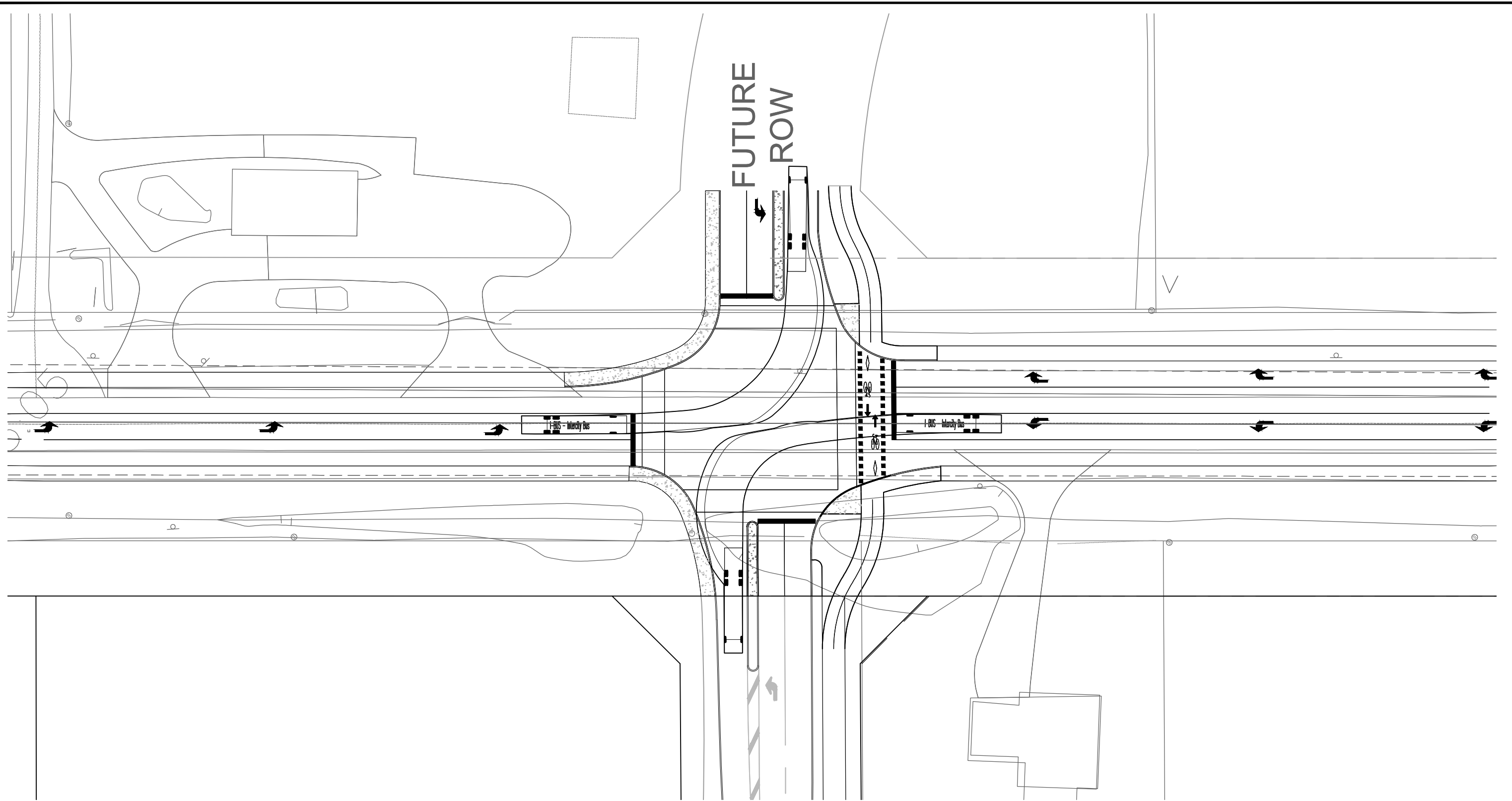
MARCH ROAD/STREET 1  
 TURNING MOVEMENTS

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DATE NOV 2019 JOB 116132 FIGURE TM-2

CUT11V17 DWG 270mm X 132mm

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CLARIDGE/UNIFORM DEVELOPMENT

MARCH ROAD/STREET 1 TURNING MOVEMENTS

SCALE 1 : 500



DATE NOV 2019 JOB 116132 FIGURE TM-3