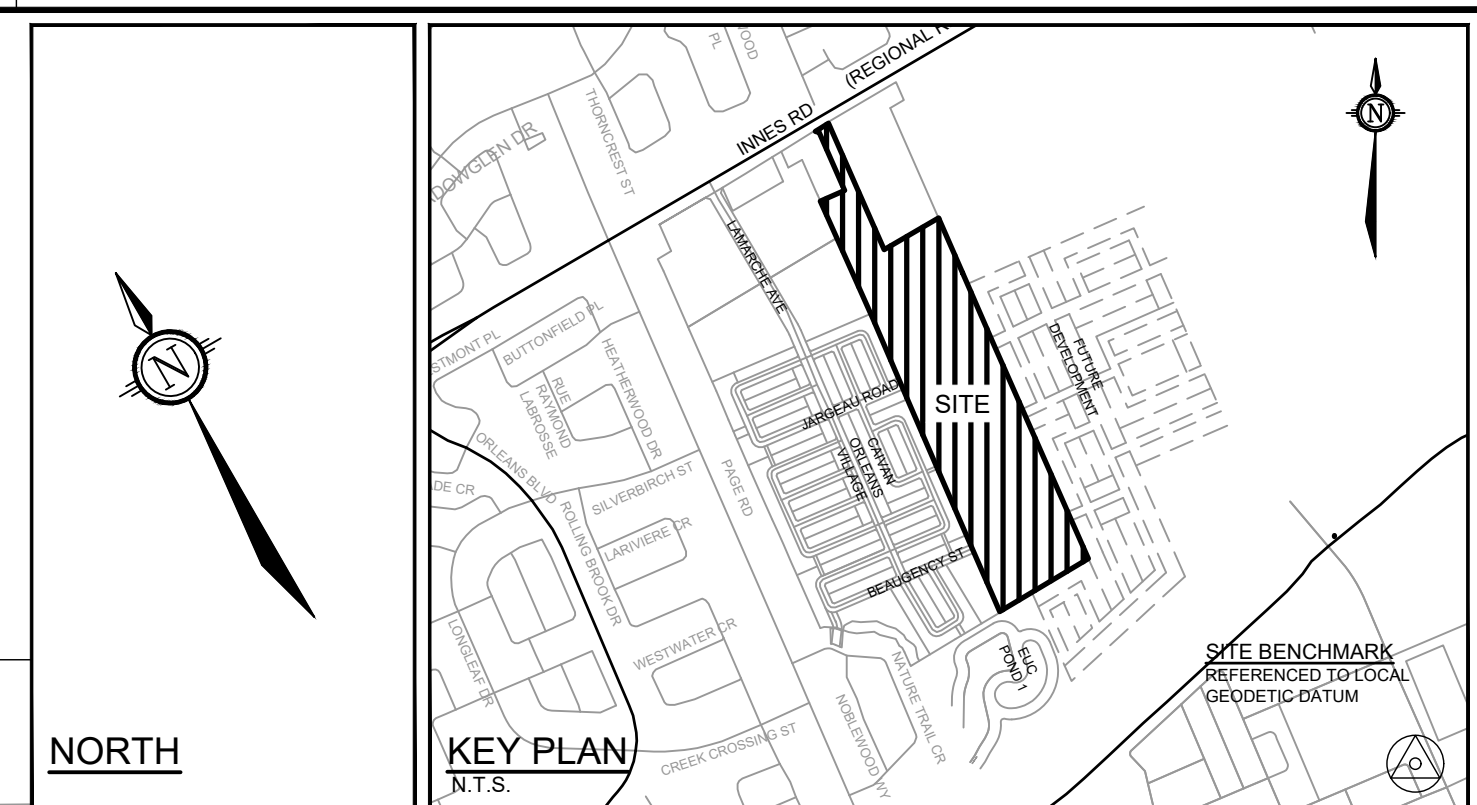


	PROPOSED WATERMAIN		PROPOSED LANDSCAPE TREE CATCHBASIN & PERFORATED SUBRAIN
	PROPOSED VALVE LOCATION		PROPOSED LANDSCAPE ELBOW CATCHBASIN PERFORATED SUBRAIN
	VALVE & VALVE BOX		PROPOSED REAR YARD CATCHBASIN MANHOLE & LEAD
	VALVE & VALVE CHAMBER		PROPOSED REAR YARD CATCHBASIN & LEAD
	PROPOSED HYDRANT C/W VALVE & LEAD		FENCE - PRIVACY
	PROPOSED TOP OF BOTTOM FLANGE		FENCE - CHAINLINK
	PROPOSED BEND AND THRUSTBLOCK		FENCE - POST AND RAIL
	11.25', 22.5', 45' or TEE (SEE PLAN AND PROFILES)		CRITICAL PIPE CROSSING LOCATION. SEE TABLE FOR DATA
	PROPOSED SANITARY MH & SEWER		
	PROPOSED STORM MH & SEWER		



PRELIMINARY

6.	REVISED AND REISSUED FOR REVIEW	NOV 26/21	BHE
5.	ISSUED FOR REVIEW	JUN 18/21	BHE
4.	ISSUED FOR DISCUSSION	MAR 5/21	BHE
3.	REVISED AND REISSUED FOR DRAFT PLAN APPROVAL	NOV 27/20	BHE
2.	REVISED AND REISSUED FOR DRAFT PLAN APPROVAL	APR 3/20	BHE
1.	DRAFT PLAN	OCT 4/19	BHE
No.	REVISION	DATE	BY

0 5 10 15 20

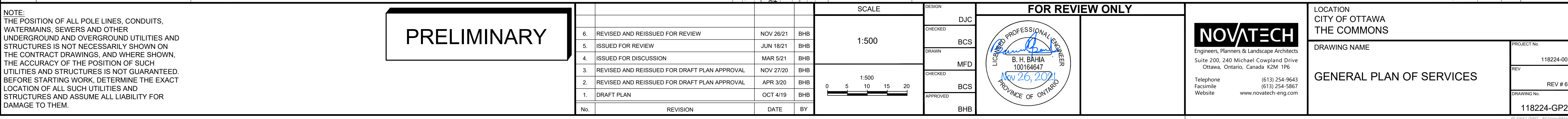
DESIGN	DJO
CHECKED	BCS
DRAWN	MFD
CHECKED	BCS
APPROVED	BHB



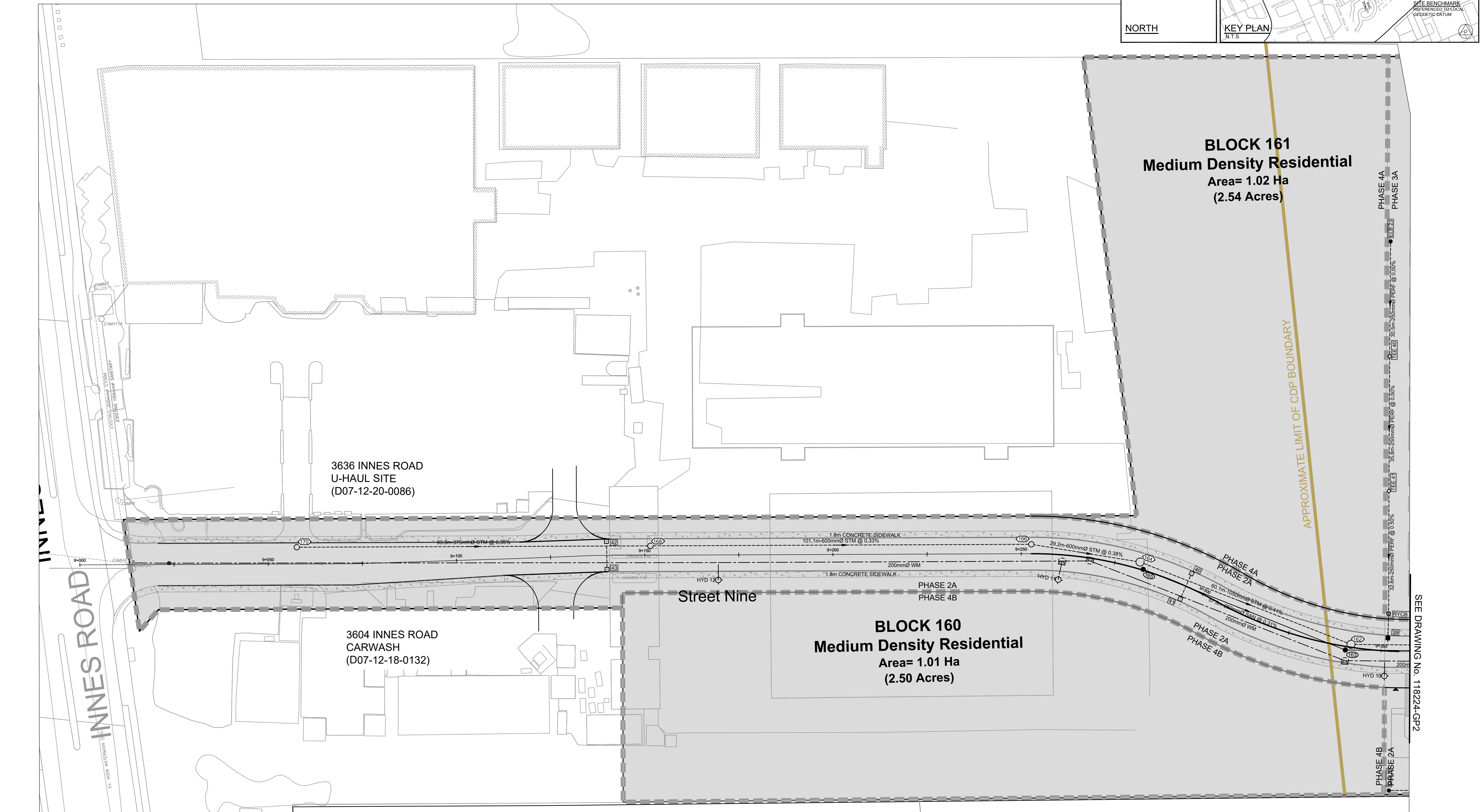
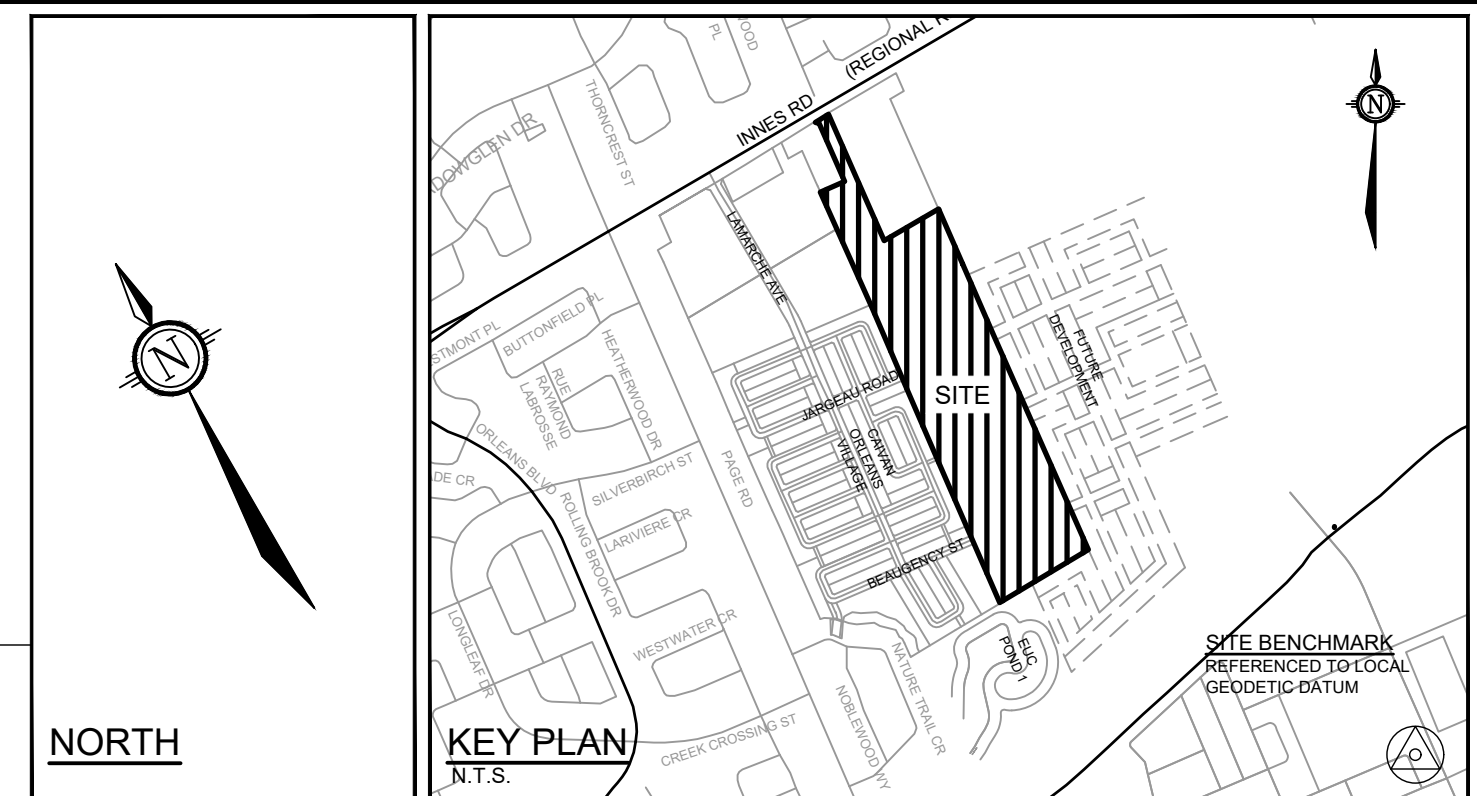
Telephone (613) 254-9643
Facsimile (613) 254-5867
Website www.novatech-eng.com

GENERAL PLAN OF SERVICES

PROJECT No.	118224-00
REV	REV # 6
DRAWING No.	118224-GP1

[illegible]

	PROPOSED WATERMAIN		PROPOSED LANDSCAPE TEE CATCHBASIN & PERFORATED SUBDRAIN		SERVICE CONNECTION STUB 100mm STORM @1.0% 19mm WATER 125mm SANITARY @1.0%
	PROPOSED VALVE LOCATION		PROPOSED LANDSCAPE ELBOW CATCHBASIN & PERFORATED SUBDRAIN		
V&VB	VALVE & VALVE BOX		PROPOSED REAR YARD CATCHBASIN MANHOLE & LEAD		PROPOSED ROAD CATCHBASIN
V&VC	VALVE & VALVE CHAMBER		PROPOSED REAR YARD CATCHBASIN & LEAD		PROPOSED CURB INLET CATCHBASIN
HYD	PROPOSED HYDRANT C/W VALVE & LEAD		FENCE - PRIVACY		DIRECTION OF FLOW
T/F=98.45	PROPOSED TOP OF BOTTOM FLANGE		FENCE - CHAINLINK		
	PROPOSED BEND AND THRUSTBLOCK 11.25", 22.5", 45" or TEE (SEE PLAN AND PROFILES)		FENCE - POST AND RAIL		
	PROPOSED SANITARY MH & SEWER		CRITICAL PIPE CROSSING LOCATION. SEE TABLE FOR DATA		
	PROPOSED STORM MH & SEWER				



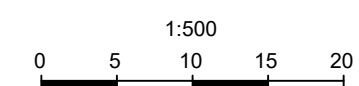
NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS,
WATERMAINS, SEWERS AND OTHER
UNDERGROUND AND OVERGROUND UTILITIES AND
STRUCTURES IS NOT NECESSARILY SHOWN ON
THE CONTRACT DRAWINGS, AND WHERE SHOWN,
THE ACCURACY OF THE POSITION OF SUCH
UTILITIES AND STRUCTURES IS NOT GUARANTEED.
BEFORE STARTING WORK, DETERMINE THE EXACT
LOCATION OF ALL SUCH UTILITIES AND
STRUCTURES AND ASSUME ALL LIABILITY FOR
DAMAGE TO THEM.

PRELIMINARY

6.	REVISED AND REISSUED FOR REVIEW	NOV 26/21	BHE
5.	ISSUED FOR REVIEW	JUN 18/21	BHE
4.	ISSUED FOR DISCUSSION	MAR 5/21	BHE
3.	REVISED AND REISSUED FOR DRAFT PLAN APPROVAL	NOV 27/20	BHE
2.	REVISED AND REISSUED FOR DRAFT PLAN APPROVAL	APR 3/20	BHE
1.	DRAFT PLAN	OCT 4/19	BHE
No.	REVISION	DATE	BY

SCALE

1:500



DESIGN

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CHECKED

[illegible]

DRAWN

[illegible]

CHECKED

APPROVED

APPROVED: _____

FOR REVIEW ONLY



NOVATECH

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

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

LOCATION
CITY OF OTTAWA
THE COMMONS

DRAWING NAME

GENERAL PLAN OF SERVICES

PROJECT No. _____

118224-00

EV

REV # 6

DRAWING No.

SAN PHASE 1A MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
105	7+168.01	87.70	SE=84.47 NW=84.67 SW=84.31	1,200 mm dia	
107	7+069.70	87.72	NE=84.11 W=84.08	1,200 mm dia	
109	7+041.74	87.56	E=84.02 W=83.99	1,200 mm dia	
111	7+015.20	87.78	E=83.94 NW=83.88	1,200 mm dia	
113	4+459.78	87.95	SW=84.88 NW=84.85 SE=84.82	1,200 mm dia	
121	4+363.67	88.15	W=85.10 NE=85.07	1,200 mm dia	
123	4+340.79	88.31	NW=85.18 E=85.15	1,200 mm dia	
125	4+328.35	88.27	NW=85.28 SE=85.25	1,200 mm dia	
127	4+272.76	88.55	NW=85.42 SE=85.39	1,200 mm dia	

STM PHASE 1A MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
104	7+165.54	87.62	NW=81.98 SE=81.68 SW=83.60 NE=83.90	2,438 mm x 2,438 mm	
106	7+068.19	87.66	NE=83.84 W=83.85	1,200 mm dia	
108	7+042.69	87.51	E=83.92 W=84.11	1,200 mm dia	
110	7+013.66	87.75	E=84.24	1,200 mm dia	
112	4+457.31	87.92	SW=82.73 SE=82.20 NW=83.44	2,438 mm x 2,438 mm	
120	4+365.97	88.06	W=82.97 NE=82.96	2,400 mm dia	
122	4+342.11	88.23	NW=83.05 E=83.04	2,400 mm dia	
124	4+327.22	88.20	NW=83.14 SE=83.13	2,400 mm dia	
126	4+274.26	88.46	NW=83.28 SE=83.27	2,400 mm dia	

ROADWAY CATCHBASIN TABLE (PHASE 1A)					
CB No.	STATION	T/G ELEVATION	INVERT	ICD DIA.	SIZE
1*	7+021	87.82	86.32	127mm	600 x 600 CB
2**	7+047.99	87.60	86.10	83mm	600 x 600 CB
3**	7+048.08	87.60	86.10	102mm	600 x 600 CB
4**	7+117.08	87.53	86.03	94mm	600 x 600 CB
5**	7+117.08	87.53	86.03	102mm	600 x 600 CB
7*	7+203.11	87.82	86.32	--mm	600 x 600 CB
8	6+238.28	87.44	85.94	102mm	600 x 600 CB
9	6+238.19	87.43	85.93	83mm	600 x 600 CB
12	4+421.50	87.63	86.13	127mm	600 x 600 CB
13	4+421.50	87.78	86.28	108mm	600 x 600 CB
14	4+310	88.01	86.51	83mm	600 x 600 CB
15	4+310	88.02	86.52	102mm	600 x 600 CB
16	4+235	88.17	86.67	83mm	600 x 600 CB
17	4+235	88.18	86.68	102mm	600 x 600 CB

* SOLID COVER
** CURB INLET

REAR YARD CATCHBASIN TABLE (PHASE 1A)			
RYCB No.	T/G ELEVATION	INVERT	ICD DIA
RYCB 2	87.55	86.01	-
RYCB 3	87.65	86.18	-
RYCB 4	87.63	86.12	-

SAN TRUNK PHASE 1A MANHOLE TABLE				
MH ID	STATION	T/G ELEV	INVERT	SIZE
1A	7+002.18	87.85	NE=83.60	1,200 mm dia
201	7+071.25	87.78	W=83.73 NE=83.76	1,200 mm dia
203	7+041.94	87.62	W=83.67 E=83.70	1,200 mm dia
205	7+014.20	87.84	SW=83.61 E=83.64 SE=83.87	1,200 mm dia

SAN PHASE 3A MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
153	2+135.10	90.00	W=86.84 SE=86.81	1,200 mm dia	
155	2+121.59	90.09	SW=86.94 E=86.91	1,200 mm dia	
157	2+018.97	89.95	NE=87.30	1,200 mm dia	

STM PHASE 3A MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
152	2+135.20	90.00	W=85.59 SE=85.56	1,200 mm dia	
154	2+121.49	90.09	SW=85.68 E=85.65	1,200 mm dia	
156	2+020.46	89.94	NE=86.03	1,200 mm dia	

ROADWAY CATCHBASIN TABLE (PHASE 3A)					
CB No.	STATION	T/G ELEVATION	INVERT	ICD DIA.	SIZE
53	2+079.97	89.66	88.16	127mm	600 x 600 CB
54	2+079.97	89.71	88.21	108mm	600 x 600 CB

SAN PHASE 1B MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
129	4+199.79	88.74	NE=85.63 NW=85.60 SE=85.57	1,200 mm dia	
137	4+137.16	88.70	N=85.76 SE=85.73	1,200 mm dia	
139	4+122.72	88.84	NE=85.86 S=85.83	1,200 mm dia	
141	3+088.10	89.30	NW=86.15 SW=86.09 SE=86.19	1,200 mm dia	
145	1+165.98	89.50	SW=86.36 NW=86.35 SE=86.30	1,200 mm dia	
147	1+102.82	89.32	SW=85.87 NE=86.52	1,200 mm dia	

STM PHASE 1B MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
128	4+198.28	88.63	NE=84.37 SE=83.47 NW=83.48	2,400 mm dia	
136	4+136.62	88.65	N=83.65 SE=83.64	2,400 mm dia	
138	4+123.76	88.77	NE=83.73 S=83.72	2,400 mm dia	
140	3+085.57	89.25	NW=84.16 SE=85.11 SW=84.01	2,400 mm dia	
144	1+163.48	89.45	NW=84.49 SE=84.43 SW=85.03 NE=85.10	2,400 mm dia	
146	1+084.79	89.12	SW=85.39 NE=85.31	1,200 mm dia	
148	1+006.25	88.49	NE=85.66	1,200 mm dia	

ROADWAY CATCHBASIN TABLE (PHASE 1B)					
CB No.	STATION	T/G ELEVATION	INVERT	ICD DIA.	SIZE
18	4+170	88.28	86.78	94mm	600 x 600 CB
19	4+170	88.28	86.78	127mm	600 x 600 CB
20	4+069	88.62	87.12	127mm	600 x 600 CB
21	4+069	88.77	87.27	108mm	600 x 600 CB
23	3+052	88.92	87.42	127mm	600 x 600 CB
24	3+052	88.92	87.42	94mm	600 x 600 CB
25	1+126.45	89.38	87.88	108mm	600 x 600 CB
26**	1+126.45	89.50	88.00	108mm	600 x 600 CB
27***	1+035.61	88.64	87.14	178mm	600 x 600 CB
28***	1+035.62	88.72	87.22	178mm	600 x 600 CB
29*	1+201.84	89.56	88.14	127mm	1,200 mm dia CBMH

* SOLID COVER
** CURB INLET
*** CURB INLET DUAL CATCHBASIN

REAR YARD CATCHBASIN TABLE (PHASE 1B)			
RYCB No.	T/G ELEVATION	INVERT	ICD DIA
RYCB 6	88.33	85.72	-
RYCB 7	88.76	86.49	-
RYCB 8	88.46	86.97	-
RYCB 11	89.12	87.35	-
TEE 5	88.02	86.09	-
TEE 11	88.05	86.68	-
TEE 13	88.29	87.00	-
TEE 15	88.65	87.38	-
TEE 23	88.71	87.40	-

STM OUTLET MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
98	10+053.56	87.50	NW=81.63 S=81.47	2,438 mm x 2,438mm	
2121	10+092.40	87.49	N=81.43 SW=80.64	2,438 mm x 2,438mm	
2142	10+165.96	87.43	NE=80.57 *SW=80.54 **W=80.40	3,000 mm x 1,800mm	
*96	10+246.00	86.29	*N=80.47	3,000 mm dia.	
**2143	10+189.95	86.72	E=80.38 SW=80.23	3,000 mm dia.	
***2144	10+210.14	86.75	NE=80.21 S=80.15	3,000 mm dia.	

* INTERIM OUTLET
** ULTIMATE OUTLET

SAN PHASE 3B MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
101	8+062.94	87.47	NE=84.70	1,200 mm dia	
103	8+054.47	87.59	NW=84.63 SW=84.66	1,200 mm dia	

STM PHASE 3B MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
100	8+064.19	87.54	NE=81.63 SE=81.57	3,000 mm dia	
102	8+054.51	87.58	NW=81.64 SW=81.64	3,000 mm dia	

ROADWAY CATCHBASIN TABLE (PHASE 3B)					
CB No.	STATION	T/G ELEVATION	INVERT	ICD DIA.	SIZE
6*	8+042.40	86.65	86.12	152mm	600 x 600 CB
55	8+030	87.27	85.77	127mm	600 x 600 CB
56	8+030	87.27	85.77	127mm	600 x 600 CB
57****	8+069.57	87.26	85.76	108mm	600 x 600 CB

* SOLID COVER
**** DUAL CATCHBASIN

SAN PHASE 2A MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
151	2+197.38	89.82	SW=86.61 NW=86.60 SE=86.55	1,200 mm dia	
159	9+463.92	90.10	W=86.92 NE=86.89	1,200 mm dia	
161	9+449.79	90.18	NW=87.02 E=86.99	1,200 mm dia	
163	9+340.58	90.31	N=87.31 SE=87.28	1,200 mm dia	
165	9+282.76	90.32	S=87.49	1,200 mm dia	

STM PHASE 2A MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
150	2+194.87	89.80	NW=85.35 SE=84.68 SW=84.63	3,000 mm dia	
158	9+465.14	90.07	W=85.22 NE=85.21	1,800 mm dia	
160	9+448.56	90.16	NW=85.30 E=85.29	1,800 mm dia	
162	9+341.85	90.30	N=85.66 SE=85.65	1,800 mm dia	
164	9+281.41	90.28	N=86.35 S=85.90	1,800 mm dia	
166	9+252.70	90.42	NW=86.48 S=86.47	1,200 mm dia	
168	9+151.55	90.39	NW=87.03 SE=86.80	1,200 mm dia	
170	9+057.63	91.05	SE=87.36	1,200 mm dia	

ROADWAY CATCHBASIN TABLE (PHASE 2A)					
CB No.	STATION	T/G ELEVATION	INVERT	ICD DIA.	SIZE
30	2+235.53	89.07	87.57	127mm	600 x 600 CB
31**	2+235.52	89.07	87.65	102mm	600 x 600 CB
32	2+172.35	89.47	87.97	108mm	600 x 600 CB
33	2+172.35	89.47	87.97	83mm	600 x 600 CB
34	9+535.97	89.51	88.01	127mm	600 x 600 CB
35	9+535.97	89.51	88.01	127mm	600 x 600 CB
36	9+396.24	89.79	88.29	83mm	600 x 600 CB
37	9+395.97	89.79	88.29	127mm	600 x 600 CB
38*	9+387.20	89.86	88.36	83mm	600 x 600 CB
39*	9+351.61	90.13	88.77	83mm	600 x 600 CB
40	9+294.96	90.23	88.73	102mm	600 x 600 CB
41	9+294.96	90.13	88.63	127mm	600 x 600 CB
42	9+139.87	90.30	88.80	94mm	600 x 600 CB
43	9+140	90.29	88.79	102mm	600 x 600 CB
52	9+382.52	89.81	88.31	83mm	600 x 600 CB

* SOLID COVER
** CURB INLET

SAN PHASE 2B MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
115	6+137.74	88.03	W=85.10 SE=85.07	1,200 mm dia	
117	6+123.99	88.21	SW=85.20 E=85.17	1,200 mm dia	
119	6+021.17	88.45	NE=85.56	1,200 mm dia	
131	5+076.50	89.10	NE=85.95 SW=85.92	1,200 mm dia	
133	5+036.10	89.20	NW=86.15 SW=86.09 NE=86.12	1,200 mm dia	
135	5+002.98	89.37	SW=86.34	1,200 mm dia	

STM PHASE 2B MANHOLE TABLE					
MH ID	STATION	T/G ELEV	INVERT	SIZE	
114	6+137.95	88.00	W=83.74 SE=83.67	1,200 mm dia	
116	6+123.78	88.17	SW=83.87 E=83.80	1,200 mm dia	
118	6+023.51	88.36	NE=84.18	1,200 mm dia	
130	5+075	89.05	NE=84.64 SW=84.57	1,200 mm dia	
132	5+037.80	89.18	NW=84.91 SW=84.78 NE=84.91	1,500 mm dia	
134	5+001.48	89.32	SW=85.14	1,200 mm dia	

ROADWAY CATCHBASIN TABLE (PHASE 2B)					
CB No.	STATION	T/G ELEVATION	INVERT	ICD DIA.	SIZE
10	6+165.12	87.57	86.07	127mm	600 x 600 CB
11	6+165.12	87.56	86.06	83mm	600 x 600 CB
22 *	3+106.23	89.08	87.58	127mm	600 x 600 CB
44	3+135.44	88.92	87.42	102mm	600 x 600 CB
45	3+135.44	88.92	87.42	83mm	600 x 600 CB
46	5+063.76	88.88	87.38	102mm	600 x 600 CB
47	5+063.76	89.03	87.53	83mm	600 x 600 CB
48	5+129.30	88.37	86.87	102mm	600 x 600 CB
49	5+129.30	88.52	87.02	94mm	600 x 600 CB
50	6+080.50	87.87	86.37	108mm	600 x 600 CB
51	6+080.50	88.02	86.52	127mm	600 x 600 CB