

LOCKHART INNISFIL INVESTMENTS (II) LIMITED

460 LOCKHART ROAD, CITY OF BARRIE

DRAWING LEGEND

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PP-9	PLAN AND PROFILE THICKETWOOD AVENUE STA 1+260 TO 1+503
PP-10	PLAN AND PROFILE FENCHURCH MANOR STA 0+960 TO 1+240
PP-11	PLAN AND PROFILE FENCHURCH MANOR STA 1+240 TO 1+520



MUNICIPALITY:

CITY OF BARRIE
70 COLLIER STREET (BOX 400)
BARRIE, ON L4M 4T5
PH. 705.726.4242
FAX 705.739.4243

CLIENT:

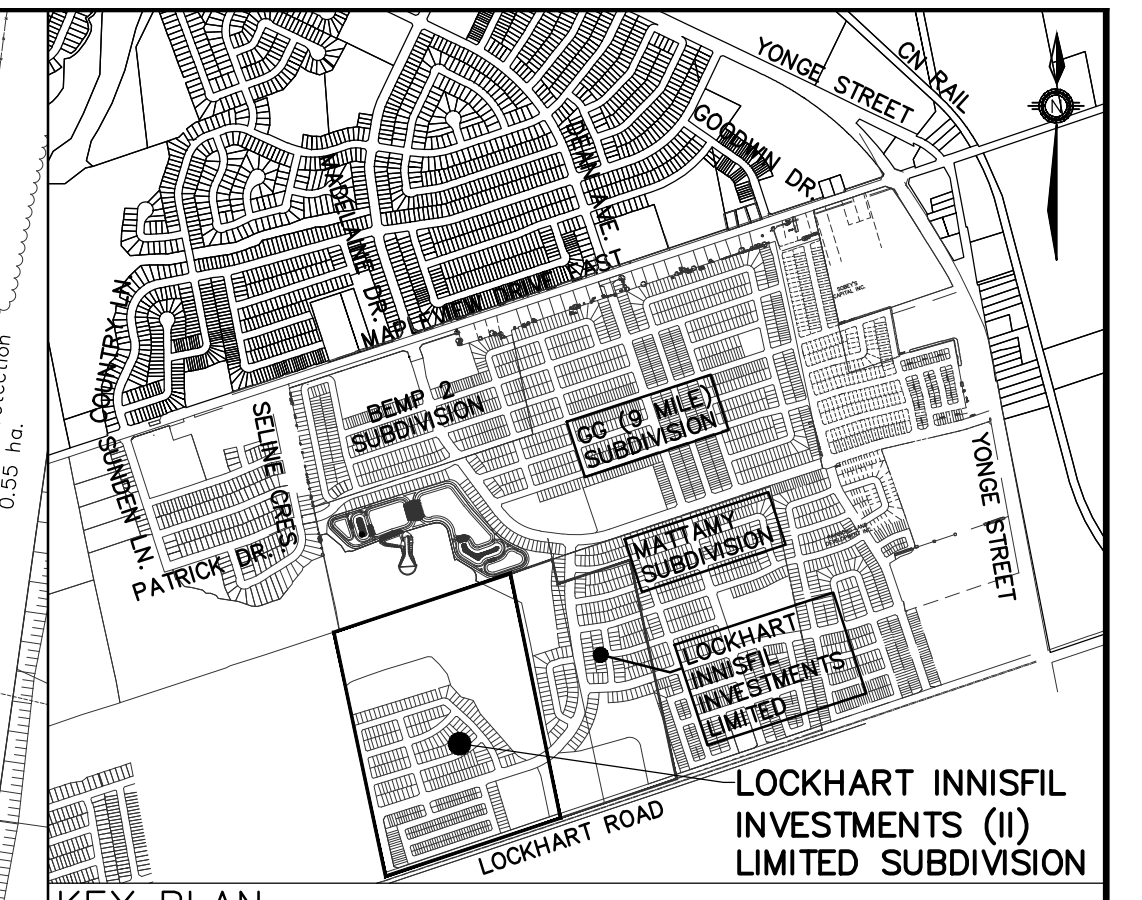
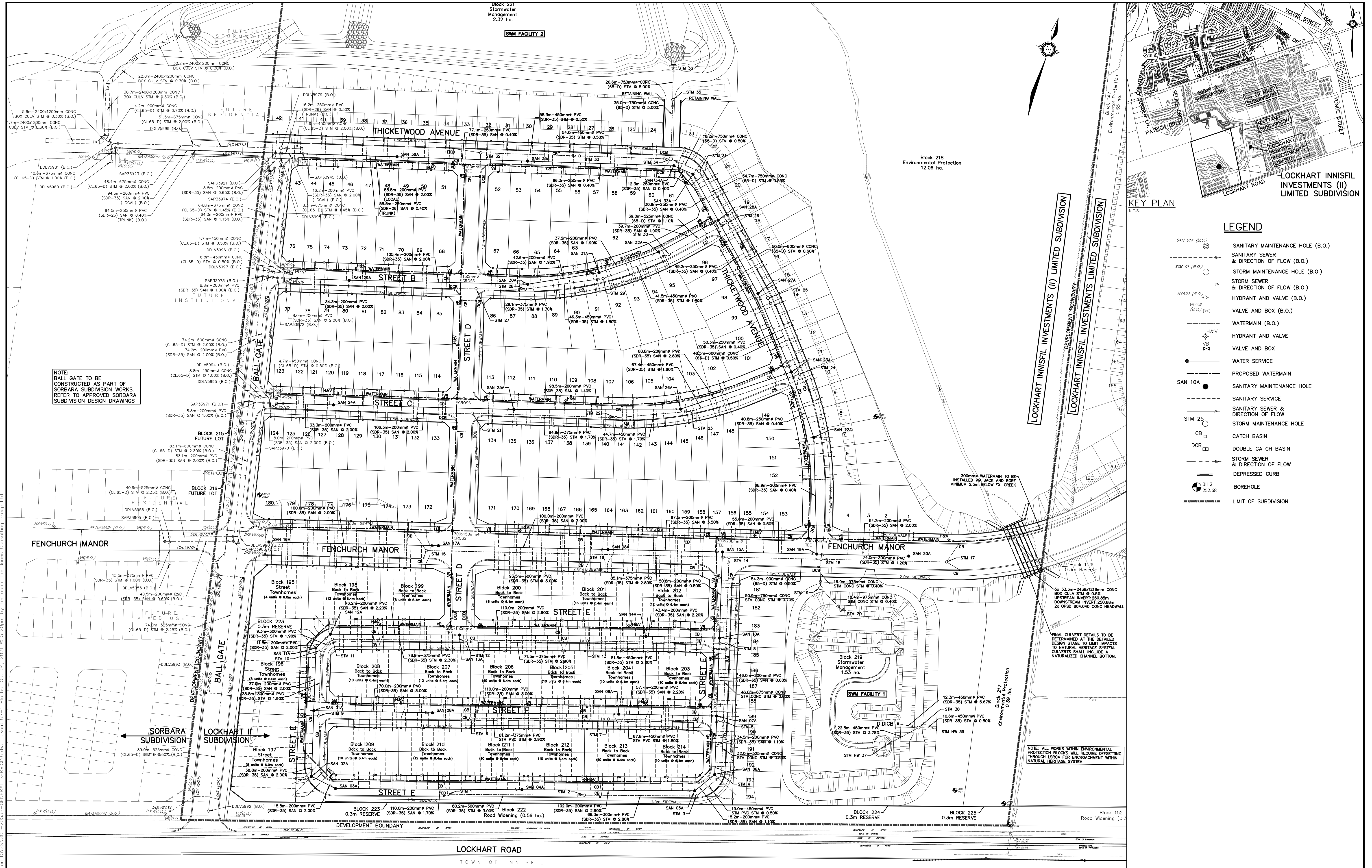
LOCKHART INNISFIL INVESTMENTS (II) LIMITED

DEVELOPER'S ENGINEER:



229 Mapleview Dr. E, Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1056

TJCG PROJECT # GOL-20538

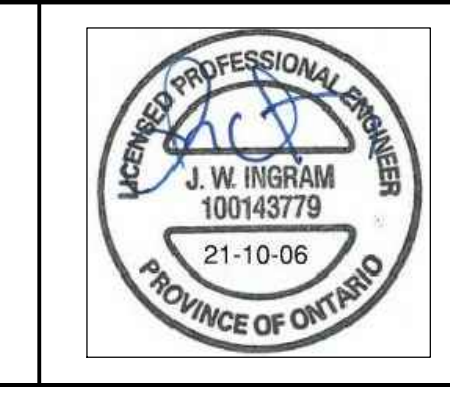


LEGEND

	SANITARY MAINTENANCE HOLE (B.O.)
	SANITARY SEWER & DIRECTION OF FLOW (B.O.)
	STORM MAINTENANCE HOLE (B.O.)
	STORM SEWER & DIRECTION OF FLOW (B.O.)
	HYDRANT AND VALVE (B.O.)
	VALVE AND BOX (B.O.)
	WATERMAIN (B.O.)
	HYDRANT AND VALVE
	VALVE AND BOX
	WATER SERVICE
	PROPOSED WATERMAIN
	SANITARY MAINTENANCE HOLE
	SANITARY SERVICE
	SANITARY SEWER & DIRECTION OF FLOW
	STORM MAINTENANCE HOLE
	CATCH BASIN
	DOUBLE CATCH BASIN
	STORM SEWER & DIRECTION OF FLOW
	DEPRESSED CURB
	BOREHOLE
	LIMIT OF SUBDIVISION

BENCHMARK:
 BENCHMARK NO. 00191314605 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 9.3m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15m BELOW BLOCK. ELEV. 263.480
 BENCHMARK NO. 0101985454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOWERS CREEK 0.25m EAST OF HURONIA ROAD. TABLE SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 25m WEST OF THE NORTH-EAST END OF BRIDGE, 19m BELOW TOP OF COPING. ELEV. 241.802
 BENCHMARK NO. 0101986047 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N.4910727.688 E.607083.931
 BENCHMARK NO. 0101986044 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 300m WEST OF YONGE STREET. N.491186297 E.606533.316

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI

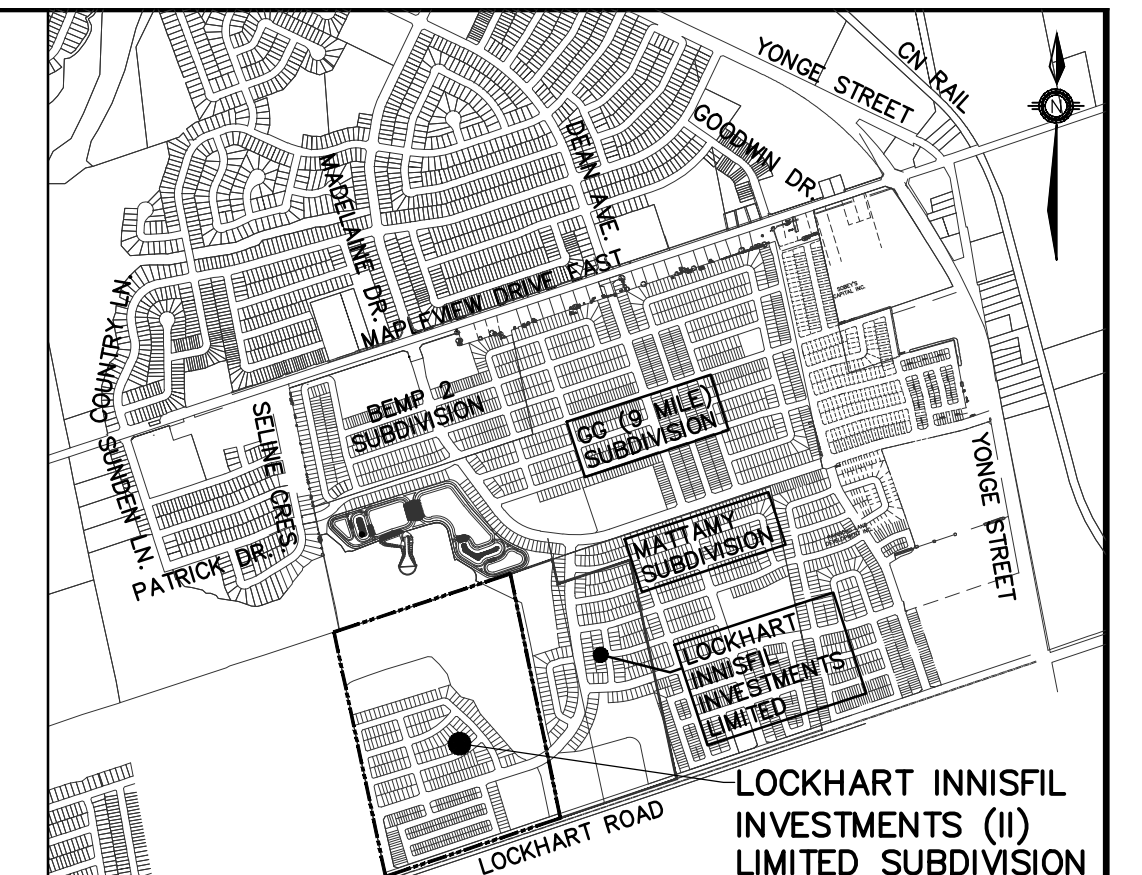


LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION
 GENERAL SERVICING PLAN

JONES CONSULTING GROUP LTD.
 PLANNERS & ENGINEERS
 229 Mapleview Dr. E. Unit 1
 Scarboro, ON M1S 0W5
 P. 706.734.2638
 F. 705.734.1056

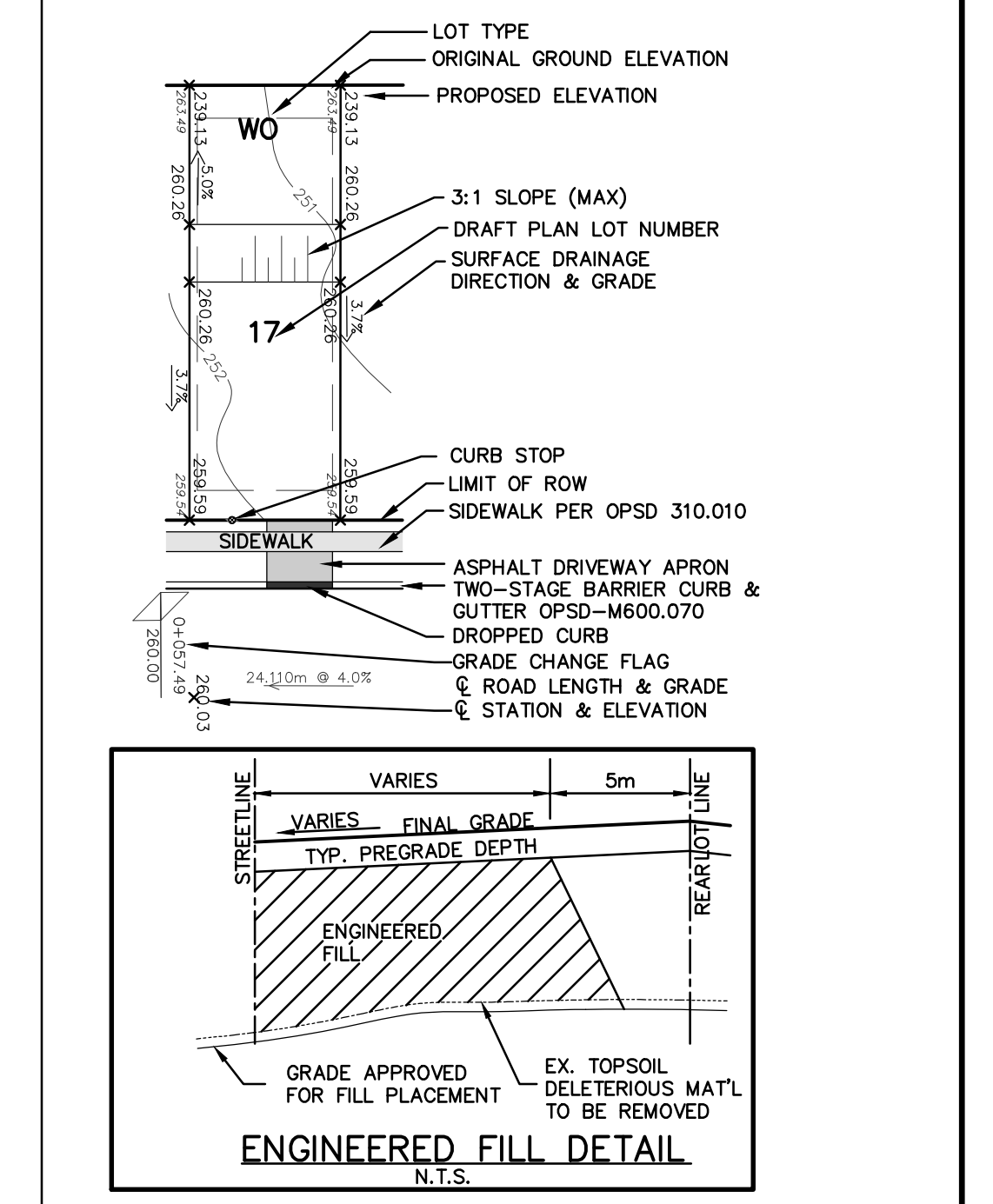
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DRAWN	KC	PROJECT	GOL-20538	DWG. NO	GS-1
CHECKED	JJ				

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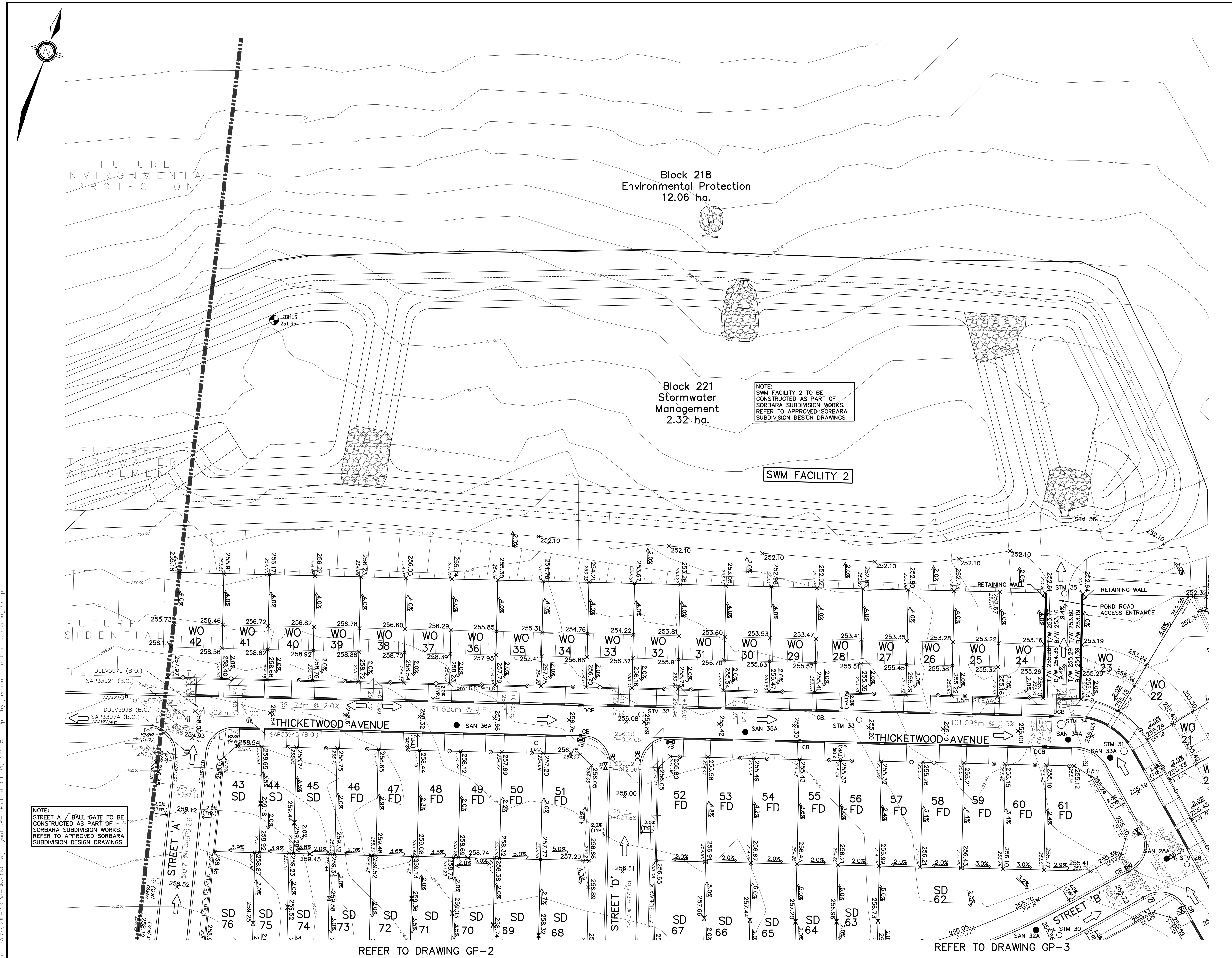


KEY PLAN
N.T.S.

- LEGEND**
- LIMIT OF SUBDIVISION
 - LSRCA REGULATED BOUNDARY
 - EX. CONTOUR
 - EX. VEGETATION
 - EX. DITCH
 - SANITARY MANHOLE
 - STORM MANHOLE
 - DOUBLE DITCH INLET
 - CATCHBASIN
 - DOUBLE CATCHBASIN
 - TREE PRESERVATION FENCE
 - SLOPE (3:1 MAX.)
 - HYDRANT AND VALVE
 - CURB STOP
 - SIDEWALK TACTILE PLATES
 - EX. BOREHOLE LOCATION ID# & GROUNDWATER ELEVATION
 - TRANSFORMER
 - SWITCHGEAR
 - LIGHT STANDARD
 - BELL/ROGERS
 - MAJOR OVERLAND FLOW ROUTE
 - LID DRY SWALE
 - SPLIT DRAINAGE LOT
 - WALK OUT LOT
 - LOOK OUT LOT
 - FRONT DRAINING LOT
 - TRANSITION LOT



ENGINEERED FILL DETAIL
N.T.S.



REFER TO DRAWING GP-2

REFER TO DRAWING GP-3

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI

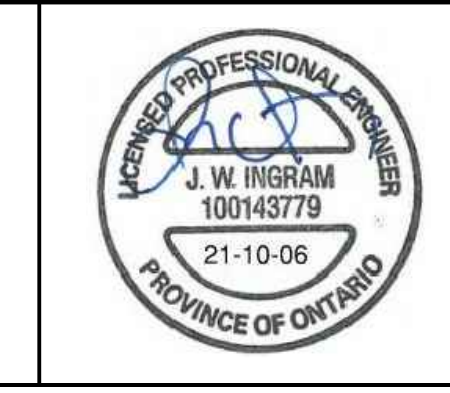
BENCHMARK:

BENCHMARK NO: 00110314605 SOUTH WEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK.

BENCHMARK NO: 0101980454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOVERS CREEK, 0.65m EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 4.5m NORTH OF CENTRELINE OF ROAD, 20m WEST OF THE NORTH-EAST END OF BRIDGE, 19m BELOW TOP OF COPING.

BENCHMARK NO: 0101980407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N:4910727.688 E:607083.931

BENCHMARK NO: 0101980404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 300m WEST OF YONGE STREET. N:4911189.997 E:606953.316



LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION

GRADING PLAN

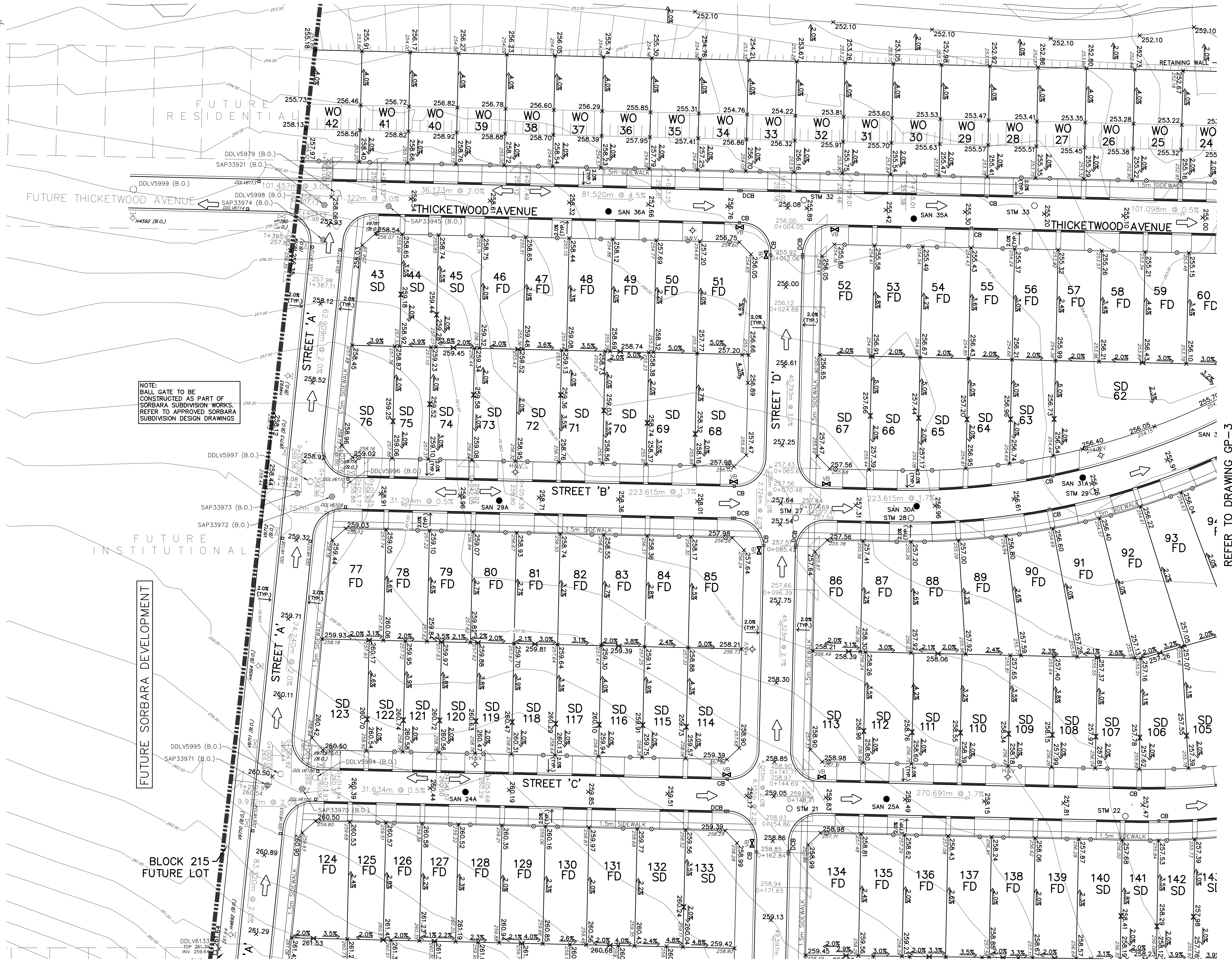
JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS

229 Mapleview Dr. E. Unit 1
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F. 705.734.1056

DESIGN	VBS	SCALE: 1:500	DATE	JULY 2021
DRAWN	VBS	PROJECT	GOL-20538	DWG. NO
CHECKED	JWI			GP-1

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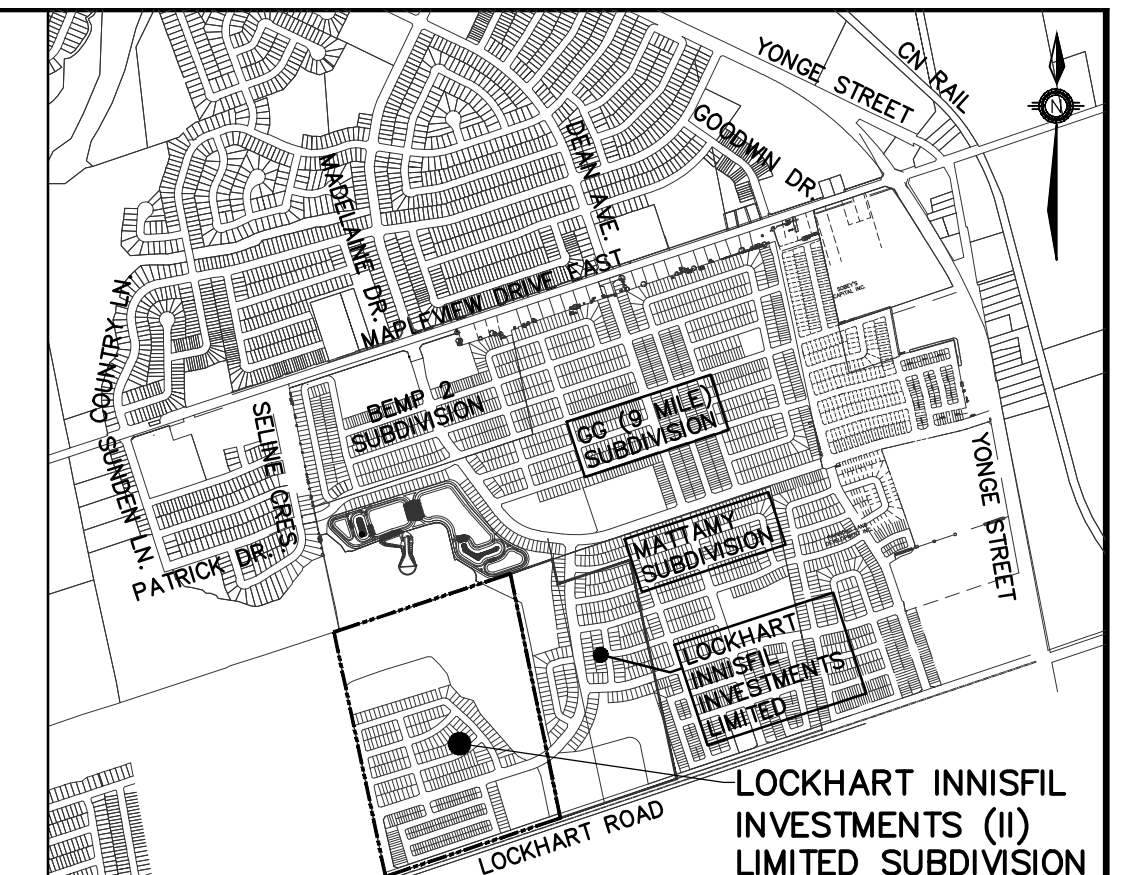


NOTE:
BALL GATE TO BE
CONSTRUCTED AS PART OF
SORBARA SUBDIVISION WORKS.
REFER TO APPROVED SORBARA
SUBDIVISION DESIGN DRAWINGS

FUTURE SORBARA DEVELOPMENT

BLOCK 215
FUTURE LOT

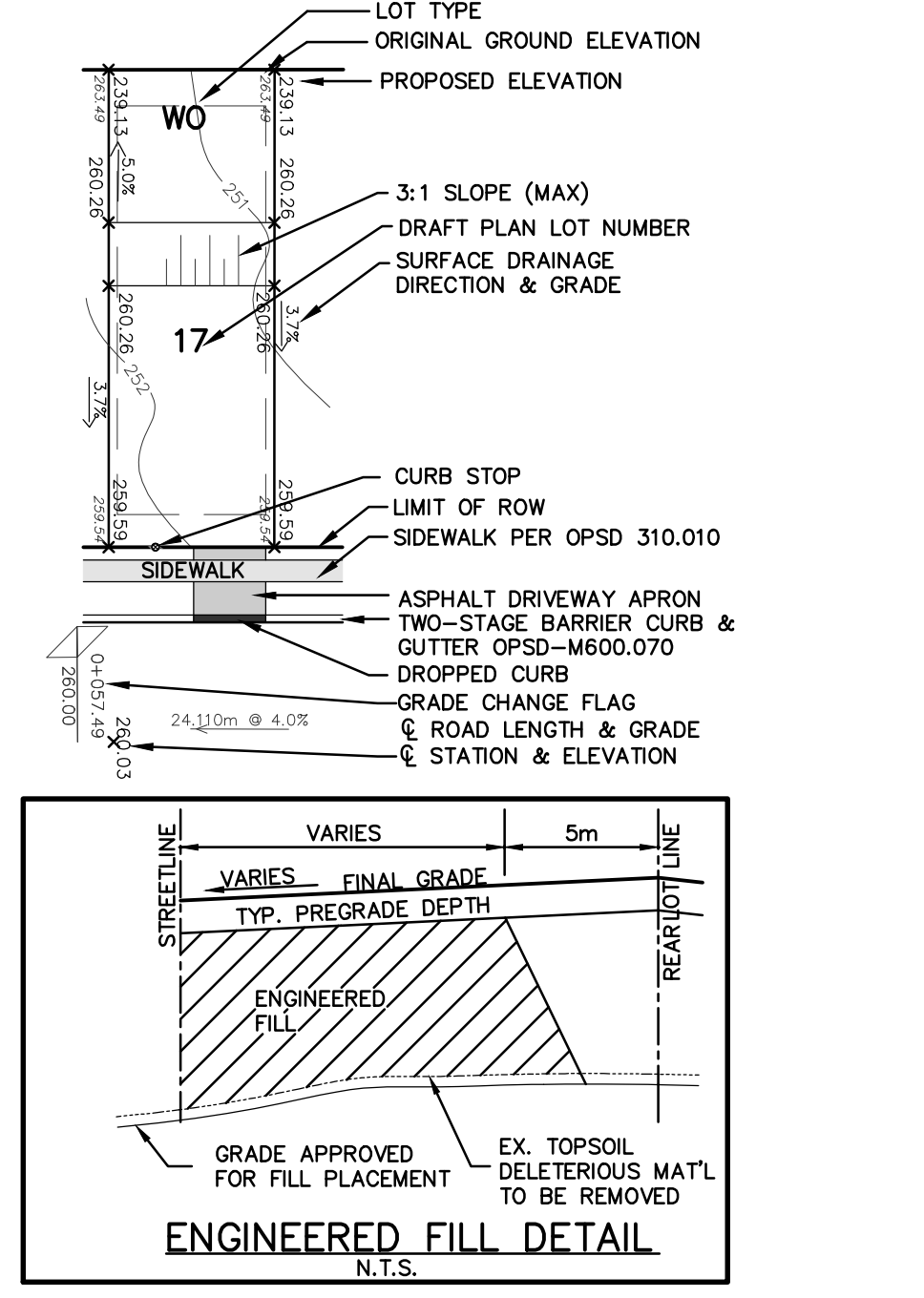
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KEY PLAN
N.T.S.

LEGEND

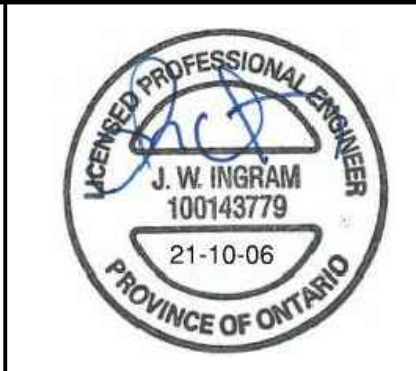
- LIMIT OF SUBDIVISION
- LSRCA REGULATED BOUNDARY
- EX. CONTOUR
- EX. VEGETATION
- EX. DITCH
- SANITARY MANHOLE
- STORM MANHOLE
- DOUBLE DITCH INLET
- CATCHBASIN
- DOUBLE CATCHBASIN
- TREE PRESERVATION FENCE
- SLOPE (3:1 MAX.)
- HYDRANT AND VALVE
- VALVE
- CURB STOP
- SIDEWALK TACTILE PLATES
- EX. BOREHOLE LOCATION
- ID# & GROUNDWATER ELEVATION
- TRANSFORMER
- SWITCHGEAR
- LIGHT STANDARD
- BELL/ROGERS
- MAJOR OVERLAND FLOW ROUTE
- LID DRY SWALE
- SPLIT DRAINAGE LOT
- WALK OUT LOT
- LOOK OUT LOT
- FRONT DRAINING LOT
- TRANSITION LOT



REFER TO DRAWING GP-3

BENCHMARK:
BENCHMARK NO. 001103114625 SOUTH-WEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV. 253.480
BENCHMARK NO. 01019805454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOVERS CREEK, 0.65m EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 20m WEST OF THE NORTH-EAST END OF BRIDGE, 19m BELOW TOP OF COPING. ELEV. 241.862
BENCHMARK NO. 01019804047 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N.4910727.688 E.607083.931
BENCHMARK NO. 01019804004 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 930m WEST OF YONGE STREET. N.4911189.897 E.609053.316

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI

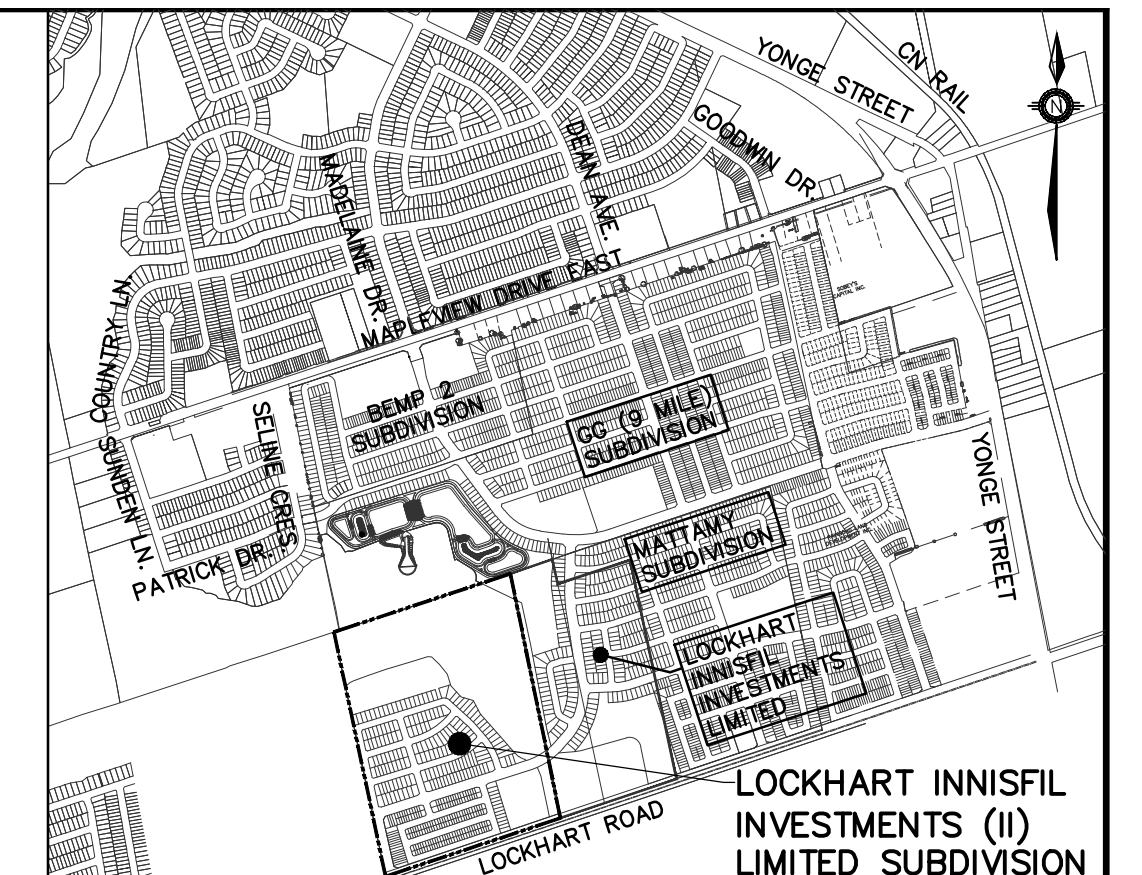


LOCKHART INNISFIL
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GRADING PLAN

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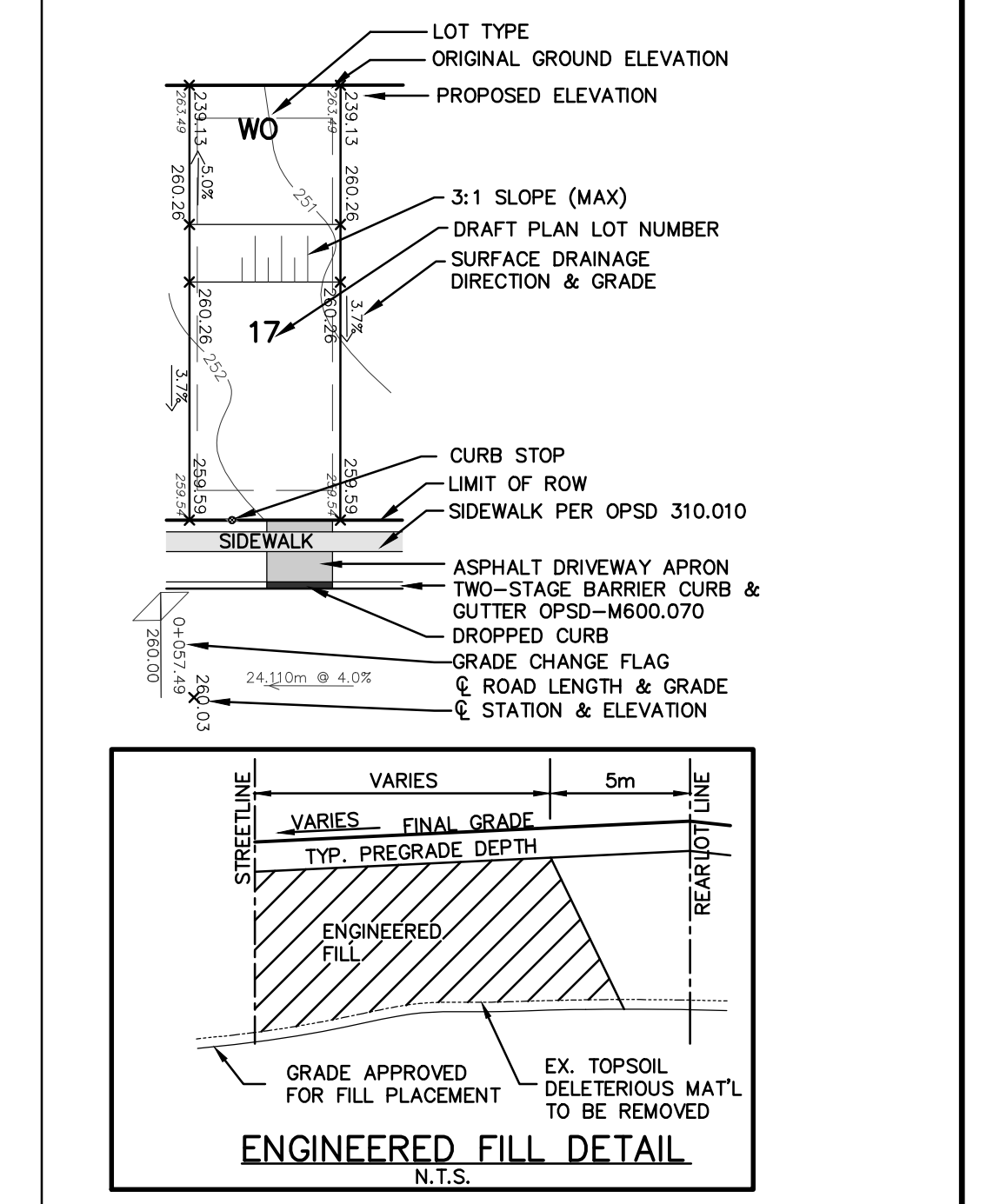
DESIGN	VBS	SCALE: 1:500	DATE	JULY 2021
DRAWN	VBS	PROJECT	GOL-20538	DWG. NO
CHECKED	JWI			GP-2



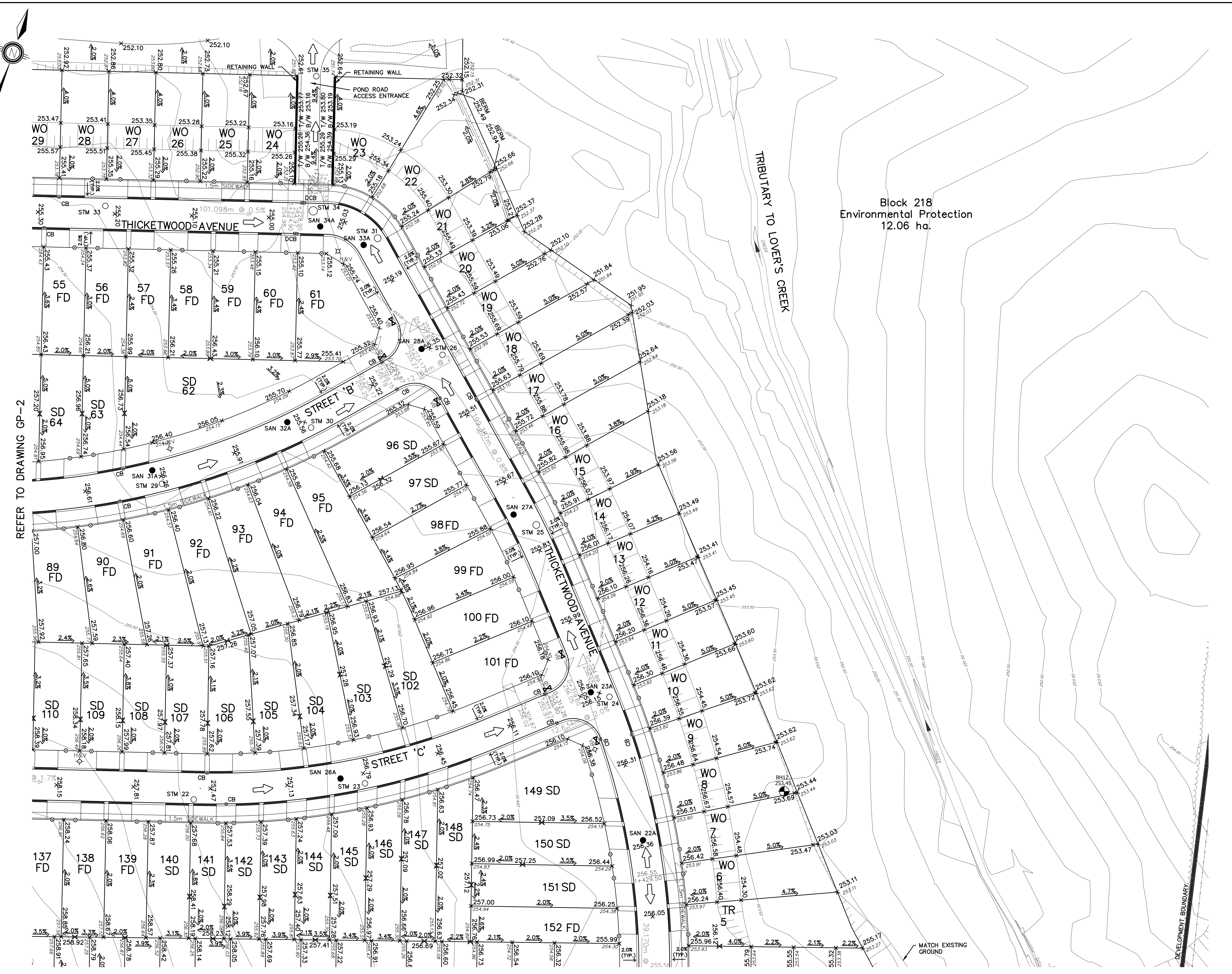
LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION
KEY PLAN
N.T.S.

LEGEND

LIMIT OF SUBDIVISION	---
LSRCA REGULATED BOUNDARY	---
EX. CONTOUR	--- 260.00 ---
EX. VEGETATION	☼
EX. DITCH	---
SANITARY MANHOLE	● SAN 5A
STORM MANHOLE	○ STM 8
DOUBLE DITCH INLET	○ DDI
CATCHBASIN	□ CB
DOUBLE CATCHBASIN	□ DCB
TREE PRESERVATION FENCE	---
SLOPE (3:1 MAX.)	▨
HYDRANT AND VALVE	⊕ H&V
VALVE	⊕
CURB STOP	⊙
SIDEWALK TACTILE PLATES	▨
EX. BOREHOLE LOCATION ID# & GROUNDWATER ELEVATION	⊕ BH17 254.60
TRANSFORMER	⊕
SWITCHGEAR	⊕
LIGHT STANDARD	⊕
BELL/ROGERS	⊕
MAJOR OVERLAND FLOW ROUTE	→
LID DRY SWALE	▨
SPLIT DRAINAGE LOT	SD
WALK OUT LOT	WO
LOOK OUT LOT	LO
FRONT DRAINING LOT	FD
TRANSITION LOT	TR



ENGINEERED FILL DETAIL
N.T.S.

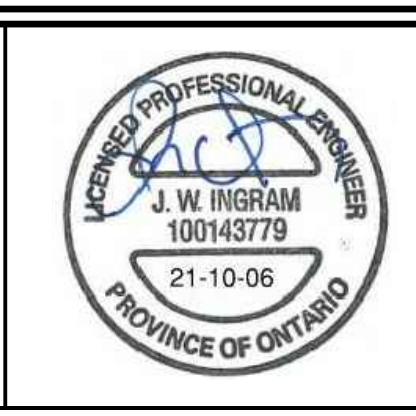


REFER TO DRAWING GP-2

REFER TO DRAWING GP-5

BENCHMARK:
BENCHMARK NO. 00110314605 SOUTH WEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV 253.250
BENCHMARK NO. 0101980454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOVER'S CREEK, 0.65m EAST OF HURONIA ROAD. TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 20m WEST OF THE NORTH-EAST END OF BRIDGE, 19m BELOW TOP OF COPING. ELEV 241.862
BENCHMARK NO. 0101980407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N.4910727.688 E.607083.531
BENCHMARK NO. 0101980404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 300m WEST OF YONGE STREET. N.4911189.897 E.60953.316

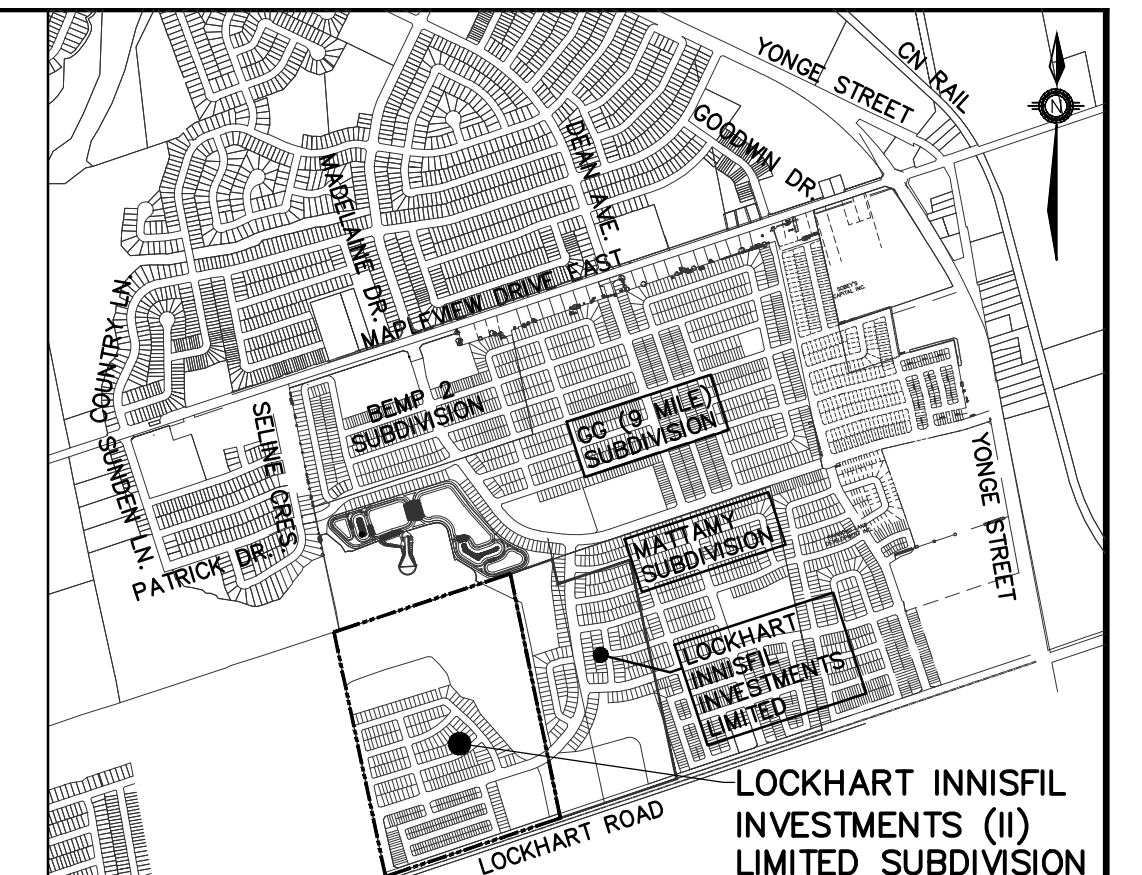
NO.	1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI
NO.		REVISIONS	DATE	INITIAL



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GRADING PLAN

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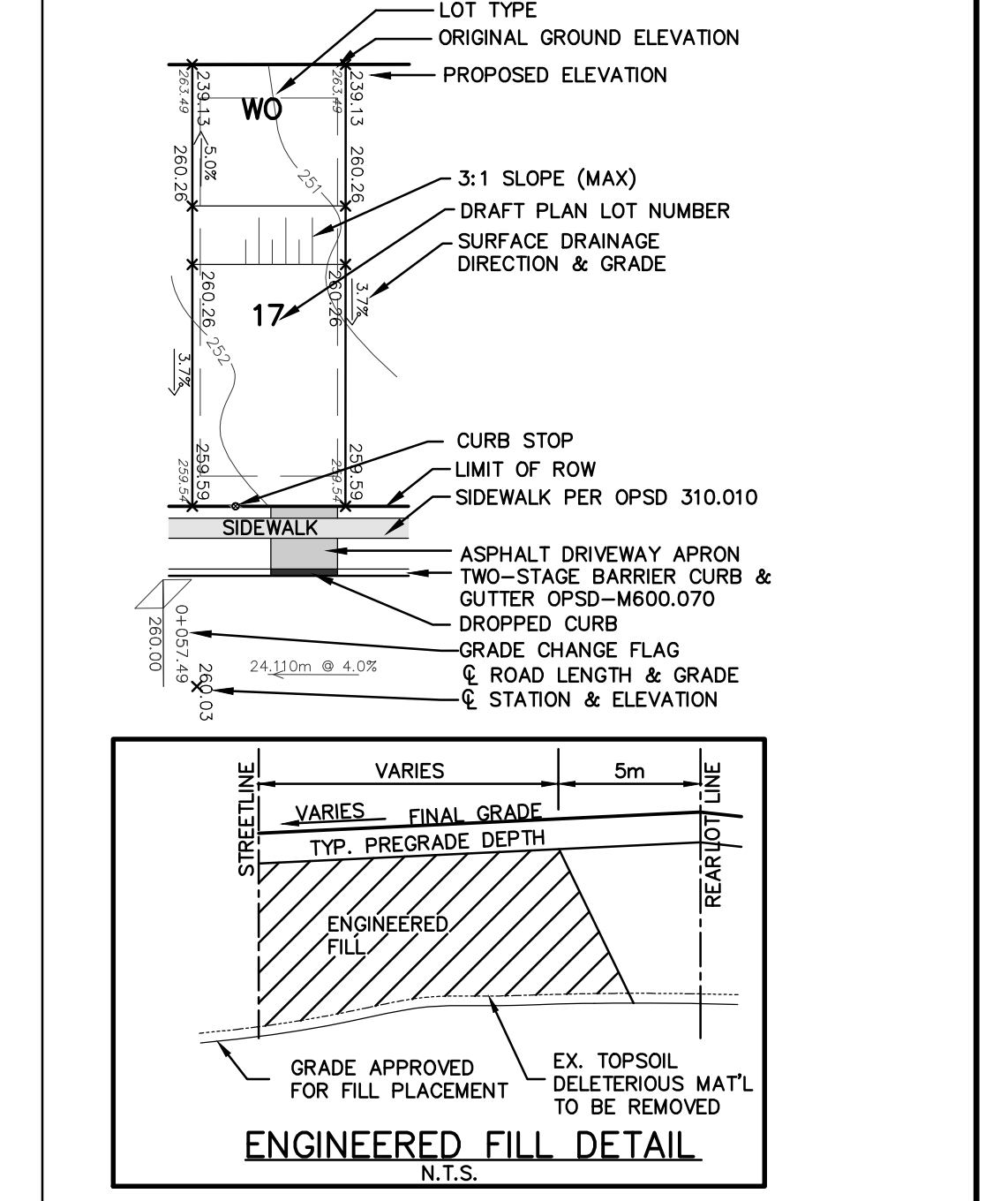
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DRAWN	VBS	PROJECT	GOL-20538	DWG. NO
CHECKED	JWI			GP-3



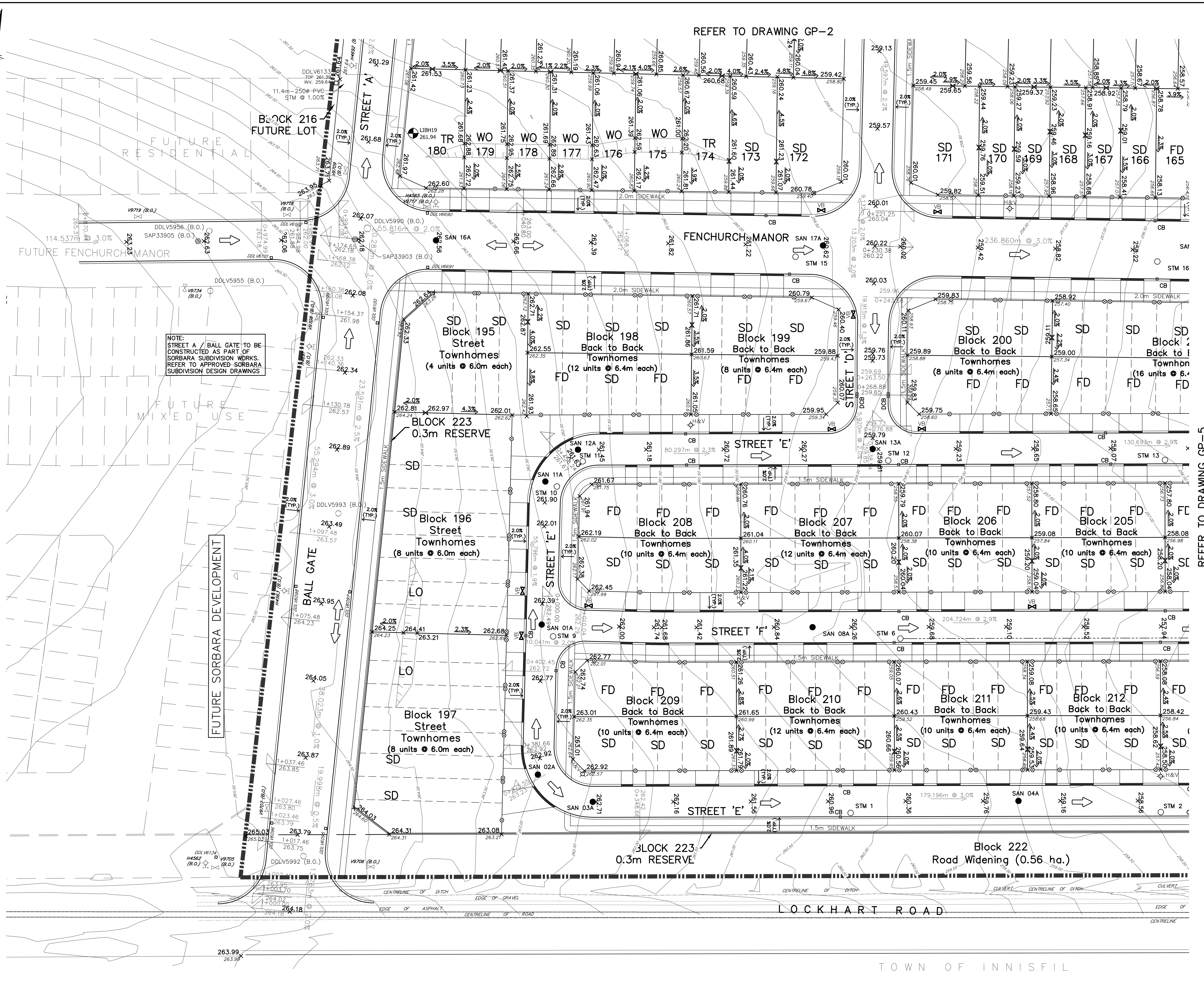
KEY PLAN
N.T.S.

LEGEND

LIMIT OF SUBDIVISION	---
LSRCA REGULATED BOUNDARY	---
EX. CONTOUR	260.00
EX. VEGETATION	(Symbol)
EX. DITCH	---
SANITARY MANHOLE	(Symbol)
STORM MANHOLE	(Symbol)
DOUBLE DITCH INLET	(Symbol)
CATCHBASIN	(Symbol)
DOUBLE CATCHBASIN	(Symbol)
TREE PRESERVATION FENCE	---
SLOPE (3:1 MAX.)	(Symbol)
HYDRANT AND VALVE	(Symbol)
VALVE	(Symbol)
CURB STOP	(Symbol)
SIDEWALK TACTILE PLATES	(Symbol)
EX. BOREHOLE LOCATION	(Symbol)
ID# & GROUNDWATER ELEVATION	(Symbol)
TRANSFORMER	(Symbol)
SWITCHGEAR	(Symbol)
LIGHT STANDARD	(Symbol)
BELL/ROGERS	(Symbol)
MAJOR OVERLAND FLOW ROUTE	(Symbol)
LID DRY SWALE	(Symbol)
SPLIT DRAINAGE LOT	SD
WALK OUT LOT	WO
LOOK OUT LOT	LO
FRONT DRAINING LOT	FD
TRANSITION LOT	TR



		229 Mapleview Dr. E. Unit 1 Barrie, ON L4N 0W5 P. 706.734.2638 F. 705.734.1058	
DESIGN	VBS	SCALE: 1:500	DATE: JULY 2021
DRAWN	VBS	PROJECT: GOL-20538	DWG. NO: GP-4
CHECKED	JWI		



NOTE: STREET A / BALL GATE TO BE CONSTRUCTED AS PART OF SORBARA SUBDIVISION WORKS. REFER TO APPROVED SORBARA SUBDIVISION DESIGN DRAWINGS

BENCHMARK:

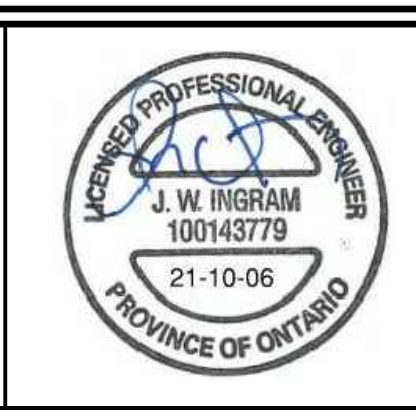
BENCHMARK NO: 001103114625 SOUTH WEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV. 263.480

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BENCHMARK NO: 0101980407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N:4910727.688 E:607083.931

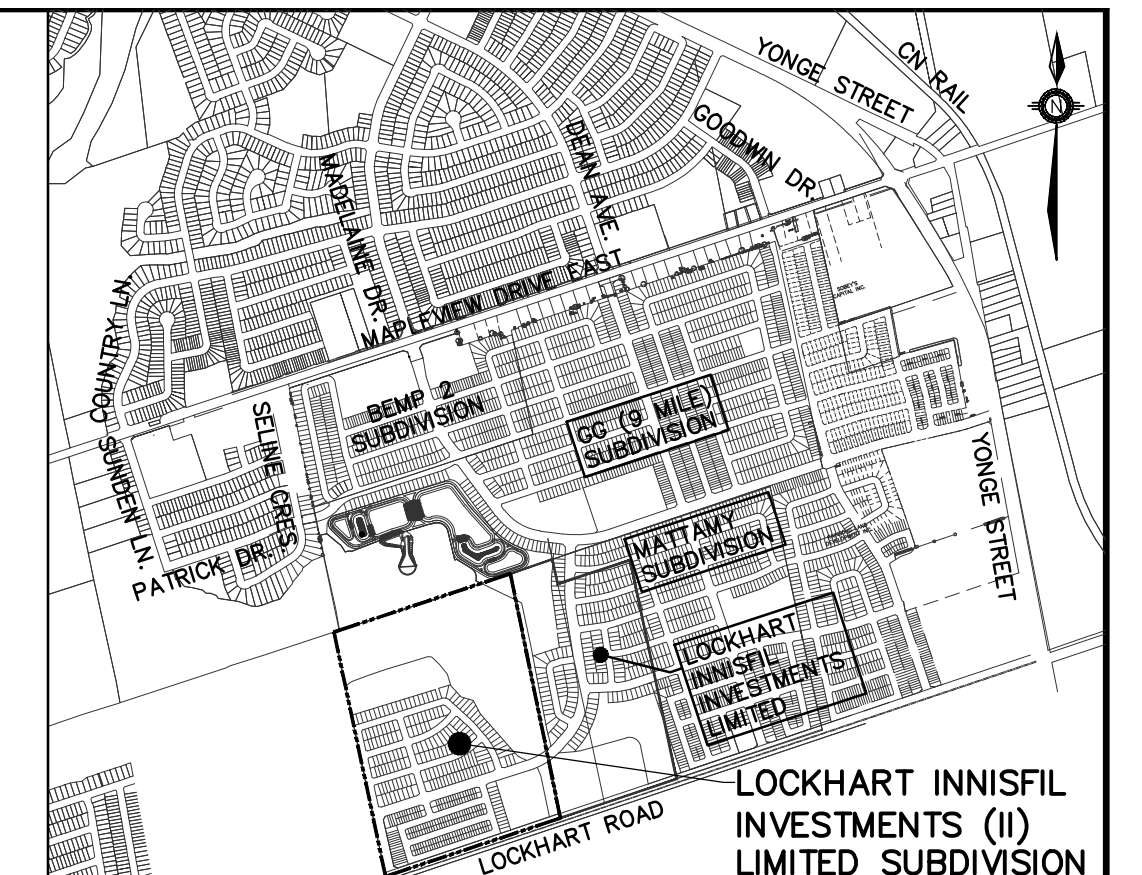
BENCHMARK NO: 0101980404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 930m WEST OF YONGE STREET. N:4911189.897 E:60953.316

NO.	1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI
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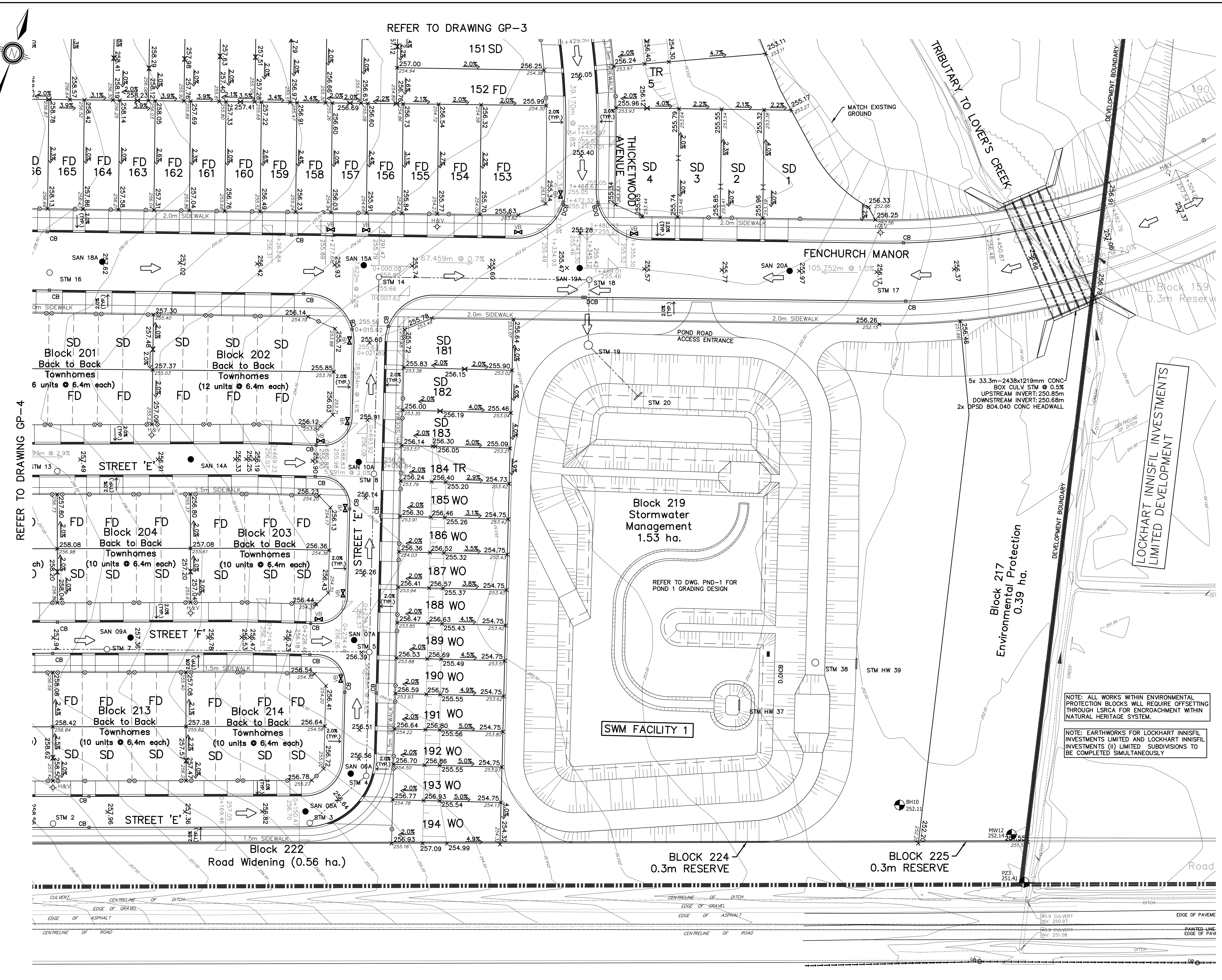
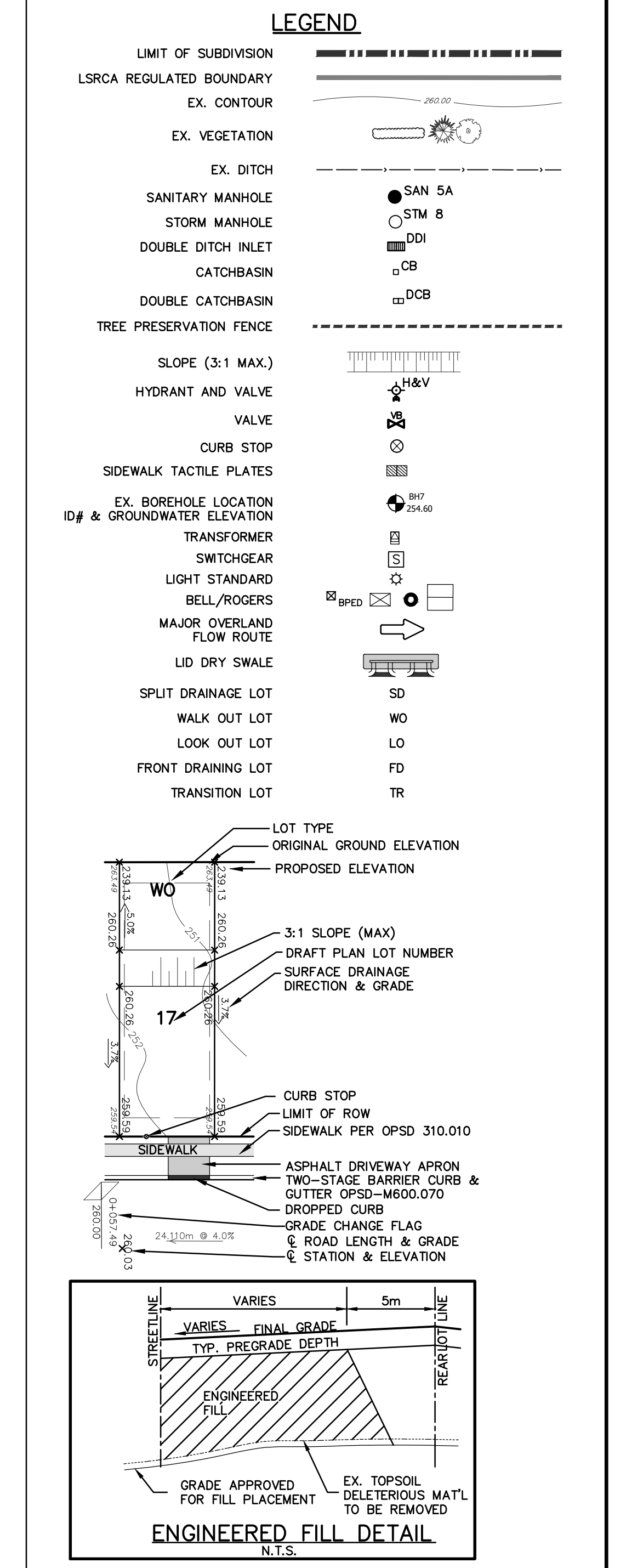


LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION

GRADING PLAN



KEY PLAN
N.T.S.



REFER TO DRAWING GP-4

REFER TO DRAWING GP-3

BENCHMARK:

BENCHMARK NO. 001183114605 SOUTH WEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV. 253.480

BENCHMARK NO. 0101980454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOVER'S CREEK, 0.65m EAST OF HURONIA ROAD. TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 6.4m NORTH OF CENTRELINE OF ROAD, 20m WEST OF THE NORTH-EAST END OF BRIDGE, 19m BELOW TOP OF COPING. ELEV. 241.862

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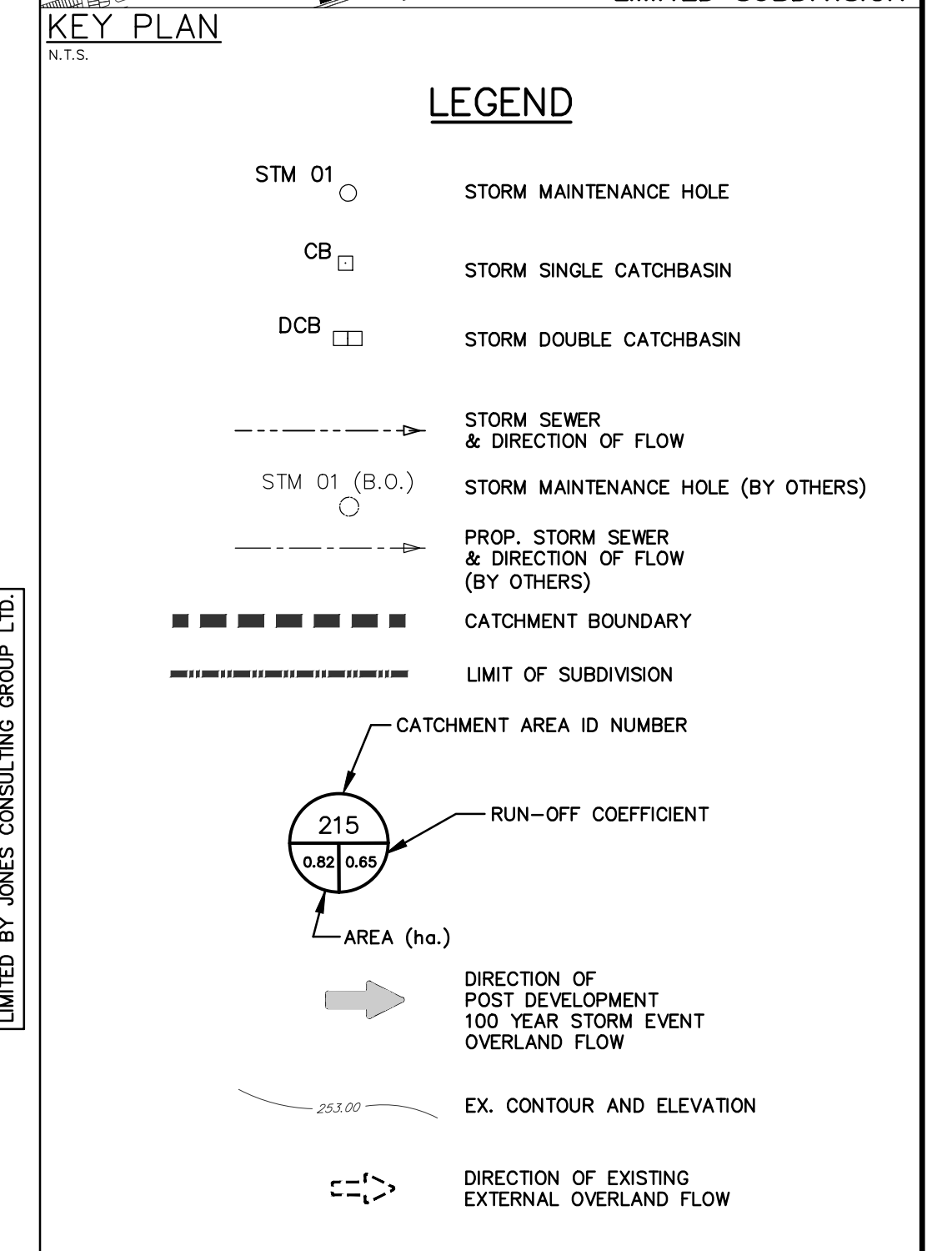
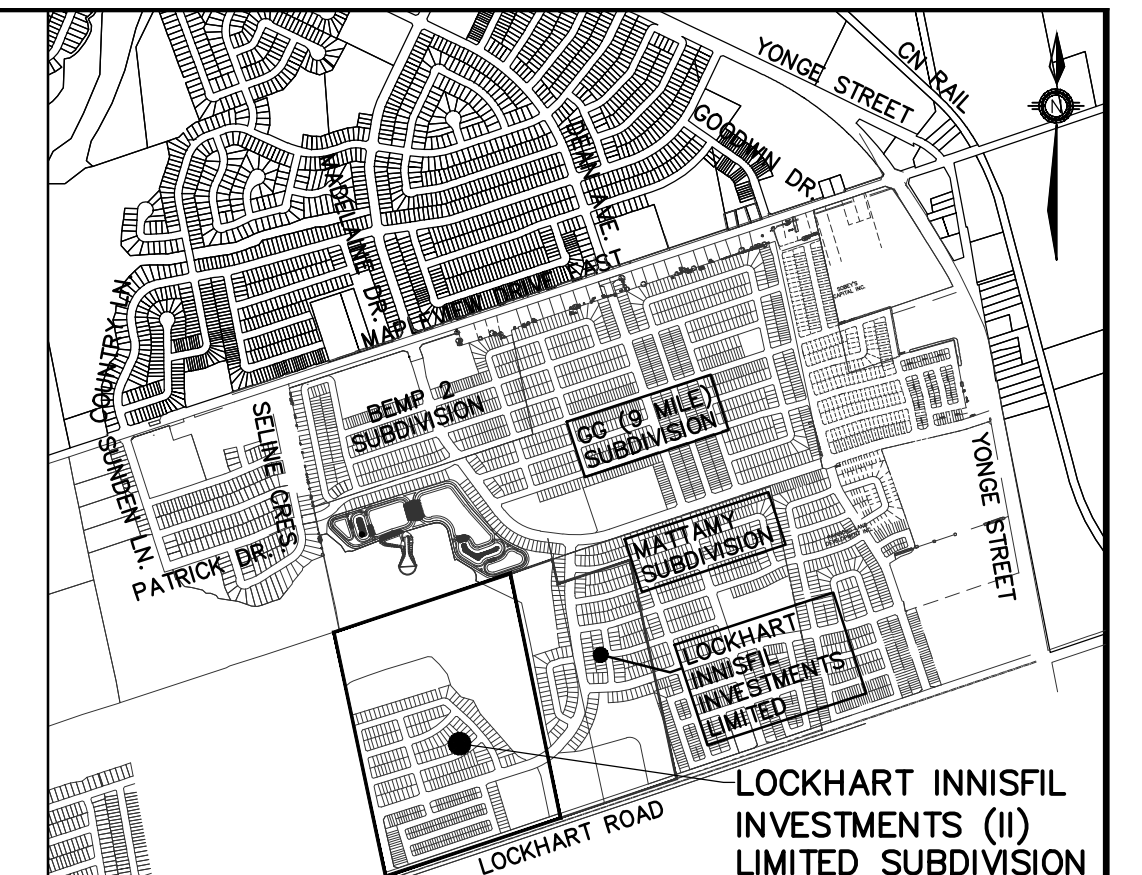
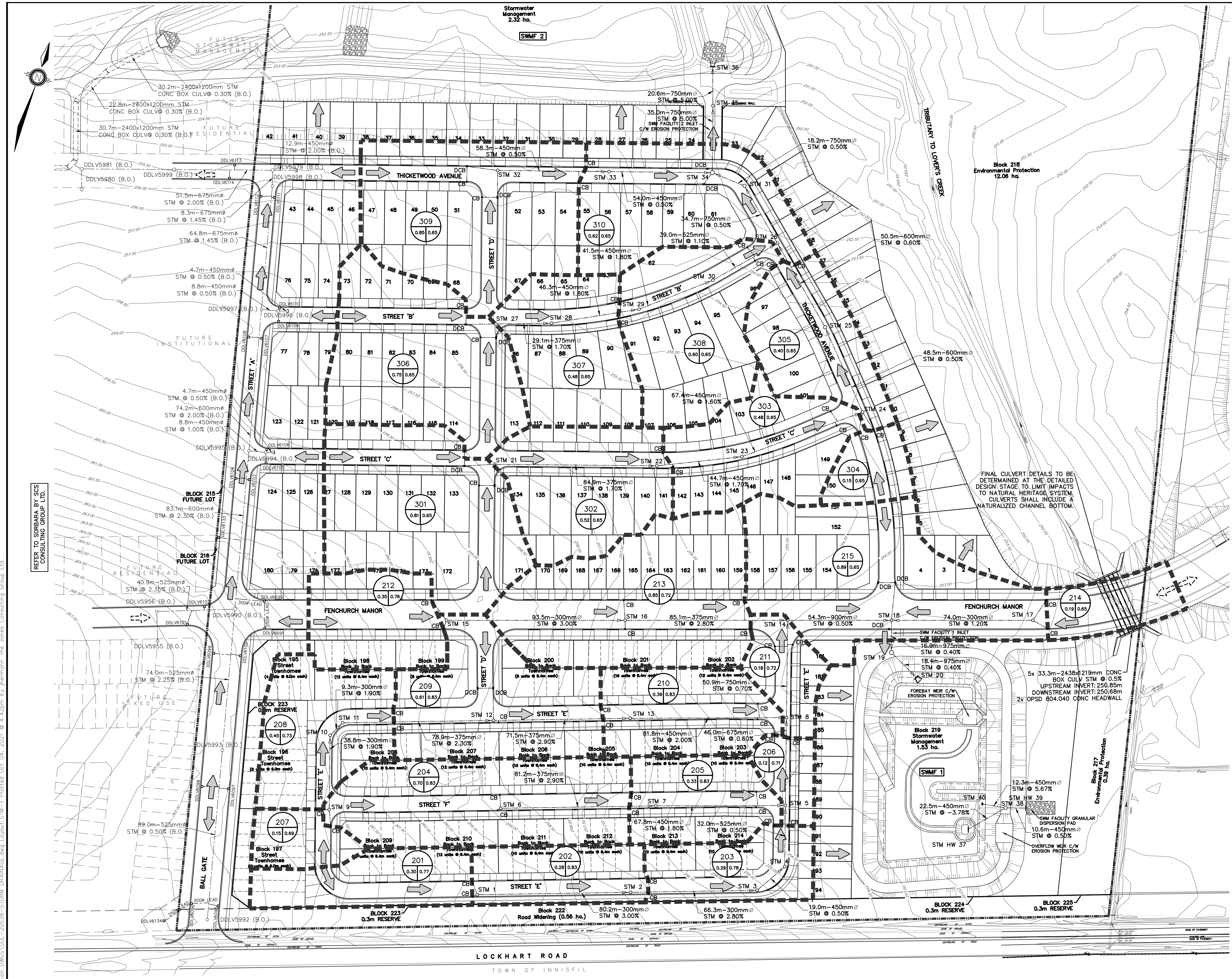


LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION

GRADING PLAN

DESIGN	VBS	SCALE: 1:500	DATE	JULY 2021
DRAWN	VBS	PROJECT	DWG. NO	GP-5
CHECKED	JWI	GOL-20538		

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P. 706.734.2638
F. 706.734.1056



REFER TO SEPARATE BY LSS CONSULTING GROUP LTD.

REFER TO LOCKHART INNISFIL INVESTMENTS LIMITED BY JONES CONSULTING GROUP LTD.

FINAL CULVERT DETAILS TO BE DETERMINED AT THE DETAILED DESIGN STAGE TO LIMIT IMPACTS TO NATURAL HERITAGE SYSTEM. CULVERTS SHALL INCLUDE A NATURALIZED CHANNEL BOTTOM.

5x 33.3m-2438x219mm CONC BOX CULV STM @ 0.5%
UPSTREAM INVERT: 250.85m
DOWNSTREAM INVERT: 250.68m
2x OPS Ø04.040 CONC HEADWALL

BENCHMARK:			
BENCHMARK NO: 001193114625 SOUTH WEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV 253.490			
BENCHMARK NO: 0101988454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOVERS CREEK, 0.65m EAST OF HURONIA ROAD. TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 4.5m NORTH OF CENTRELINE OF ROAD, 20m WEST OF THE NORTH-EAST END OF BRIDGE, 19m BELOW TOP OF COPING. ELEV 241.862			
BENCHMARK NO: 0101988407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N:4910727.688 E:607083.931			
BENCHMARK NO: 0101988404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 930m WEST OF YONGE STREET. N:4911193.997 E:609513.316			
NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI

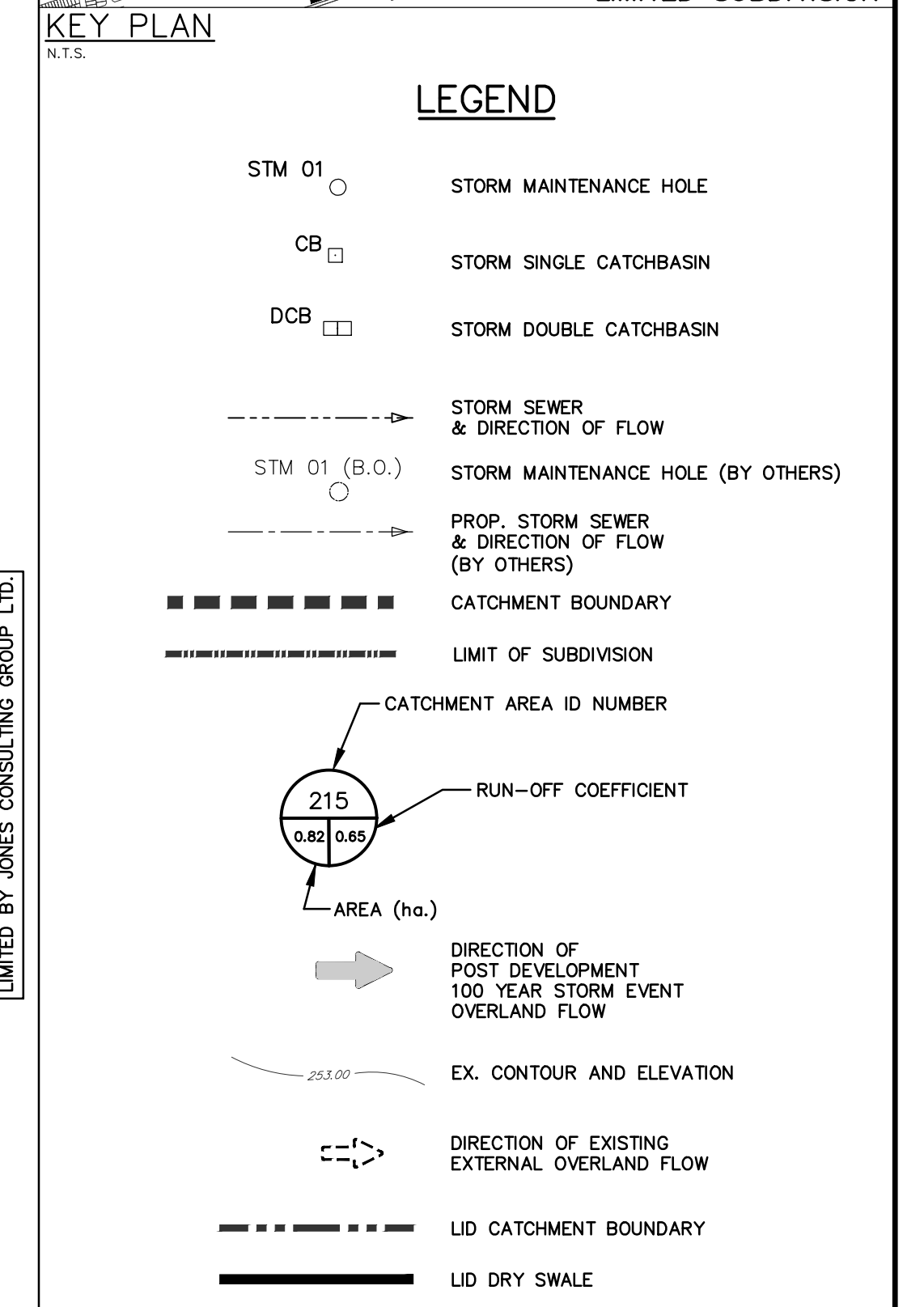
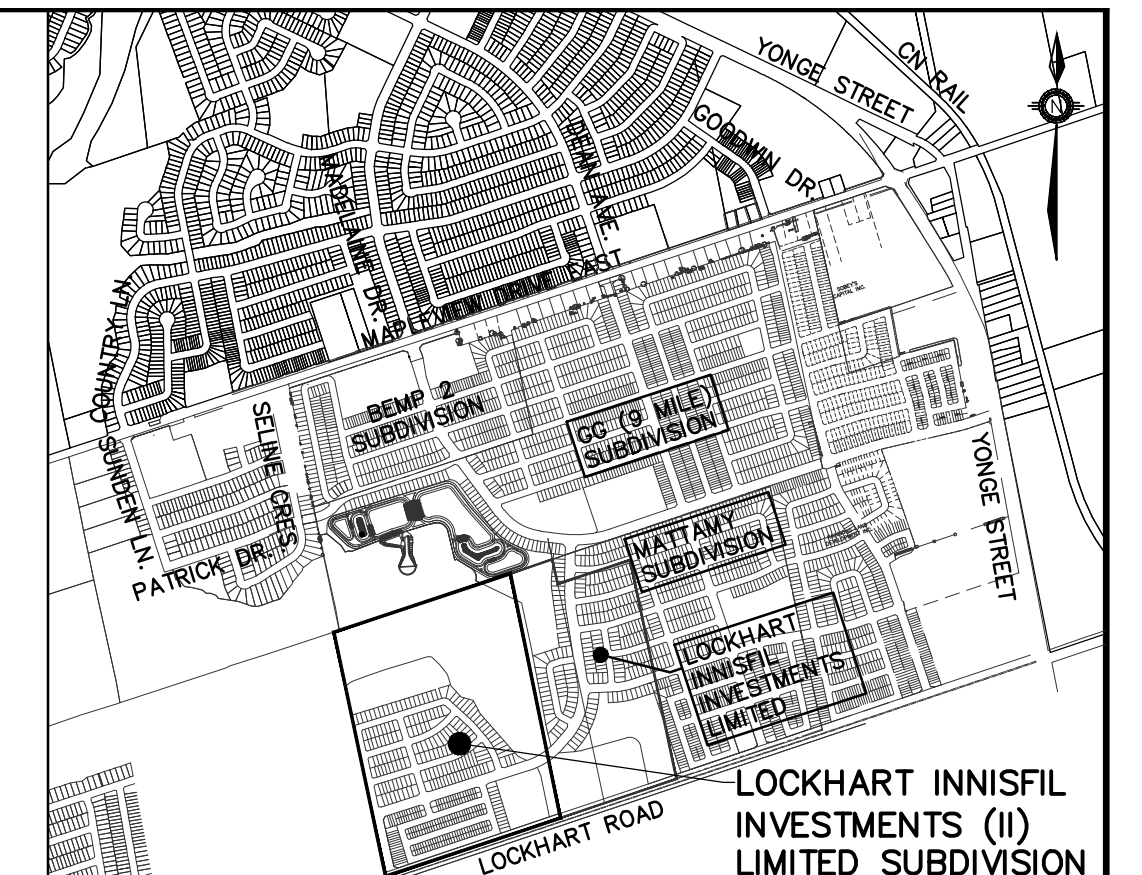
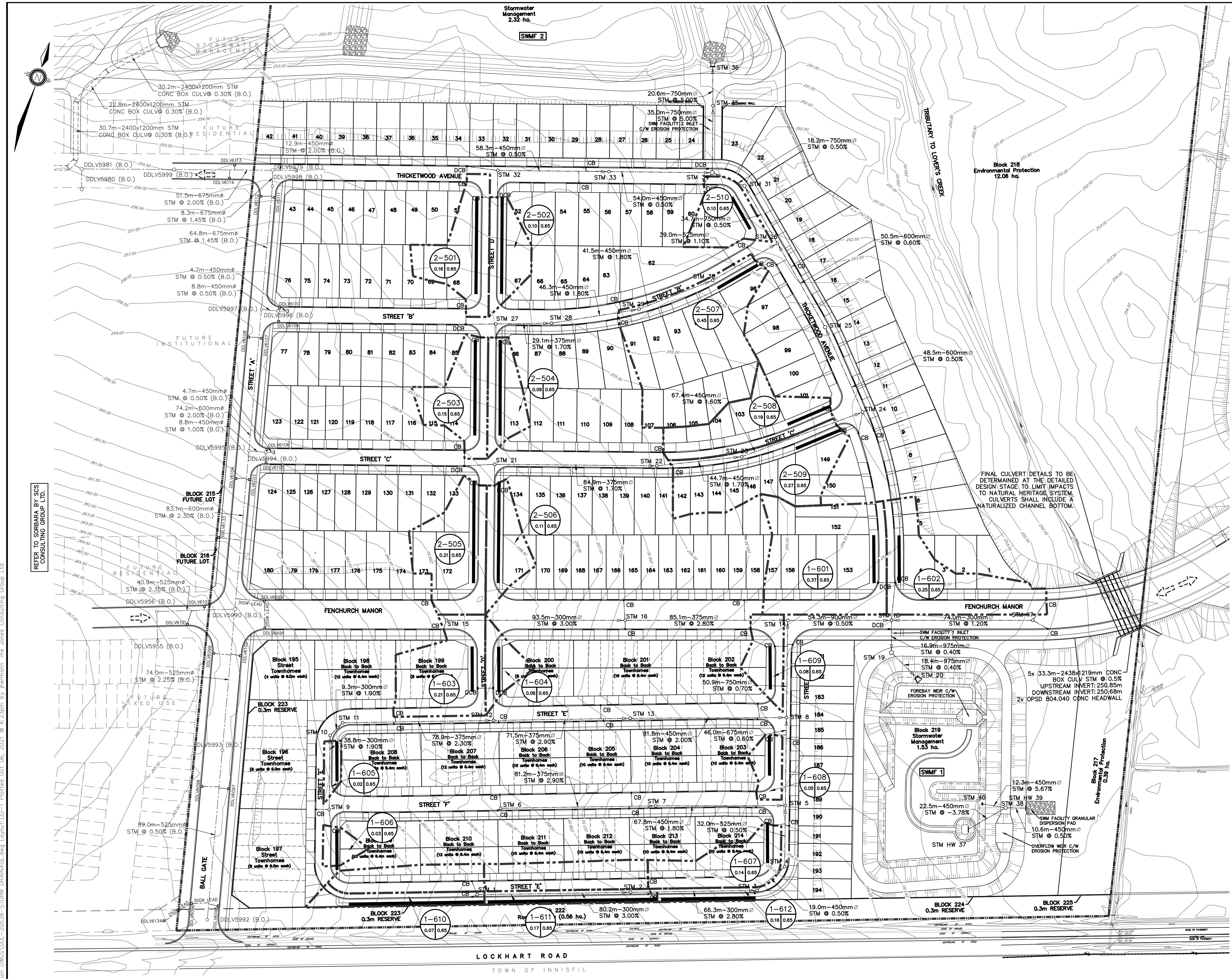


LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION
STORM SEWER SUBCATCHMENT PLAN

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1058

DESIGN	VBS	SCALE: 1:1000	DATE	JUNE 2021
DRAWN	VBS	PROJECT	DWG. NO	
CHECKED	JJ	GOL-20538	STM-1	

G:\Eng_3D\GOL-20538\Production\DWG\GOL-20538-STORM_DRAINAGE.dwg Layout\STM-1_Plotter Oct 04, 2021 @ 4:42pm by jhermann The Jones Consulting Group Ltd.



REFER TO LOCKHART INNISFIL INVESTMENTS LIMITED BY JONES CONSULTING GROUP LTD.

REFER TO SEPARATE BY LSS CONSULTING GROUP LTD.

G:\Eng_3D\GOL-20538\Production\DWG\GOL-20538-STORM_DRAINAGE.dwg Layout1-D-1 Plotted Oct 06, 2021 @ 4:23pm by jermison. The Jones Consulting Group Ltd.

BENCHMARK:

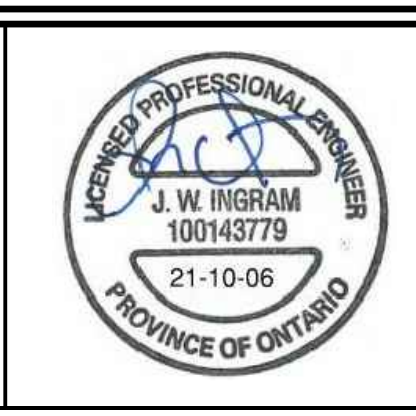
BENCHMARK NO: 001103146205 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV 263.490

BENCHMARK NO: 0101988454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOVERS CREEK, 0.65m EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.4m NORTH OF CENTRELINE OF ROAD, 20m WEST OF THE NORTH-EAST END OF BRIDGE, 19m BELOW TOP OF COPING. ELEV 241.862

BENCHMARK NO: 0101988407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N:4910727.688 E:607083.931

BENCHMARK NO: 0101988404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 930m WEST OF YONGE STREET. N:4911189.997 E:609513.316

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI



LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION

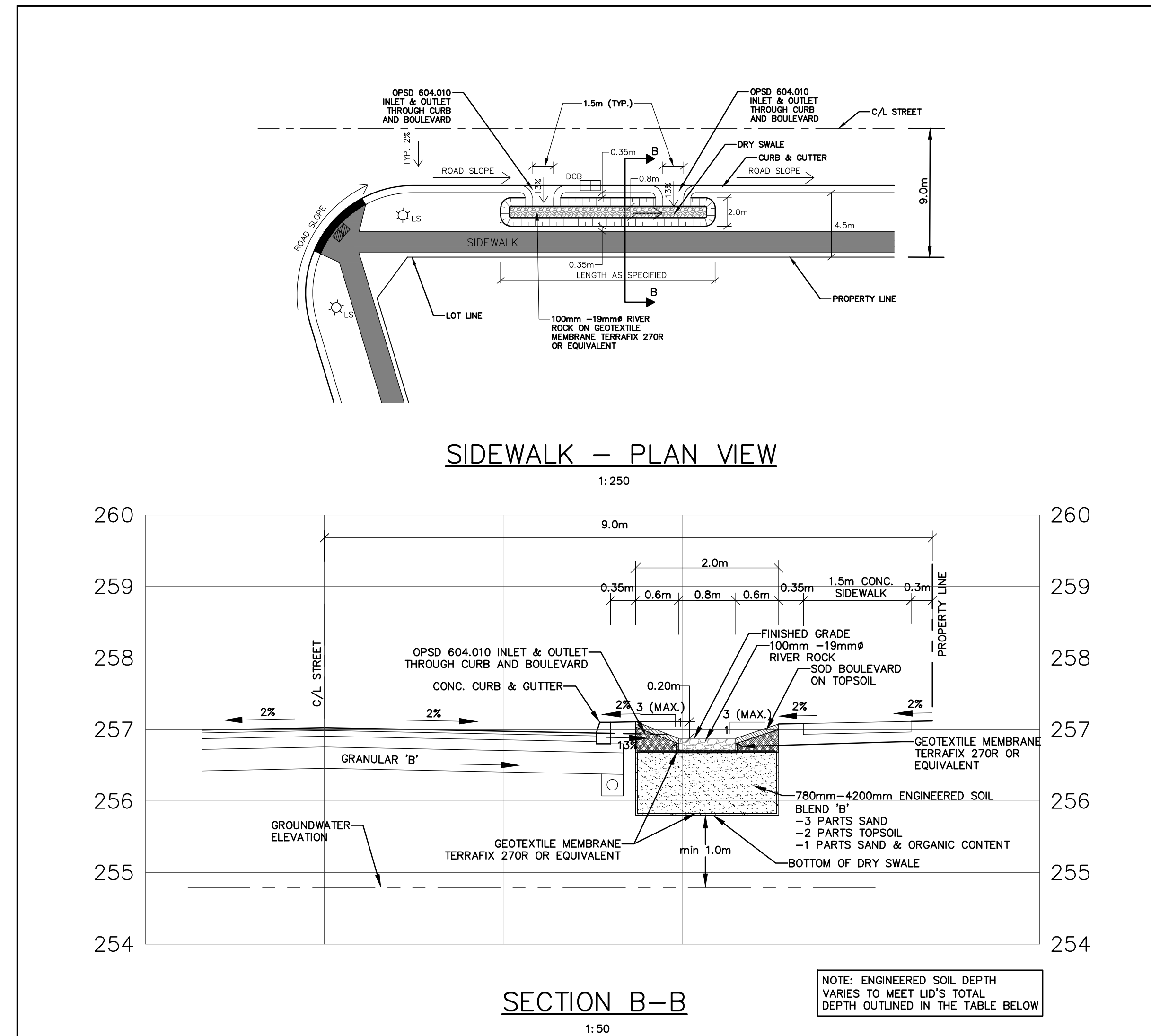
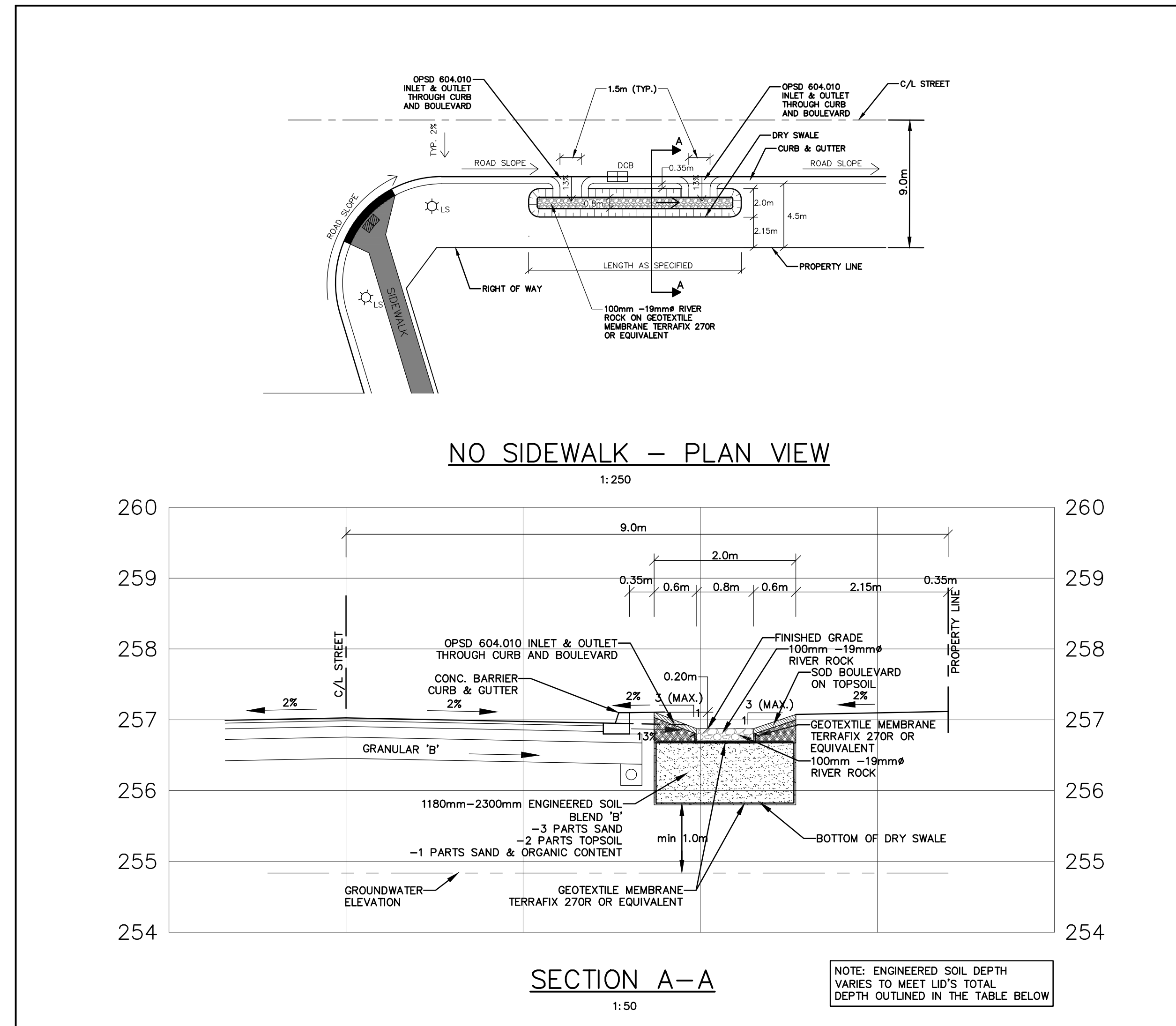
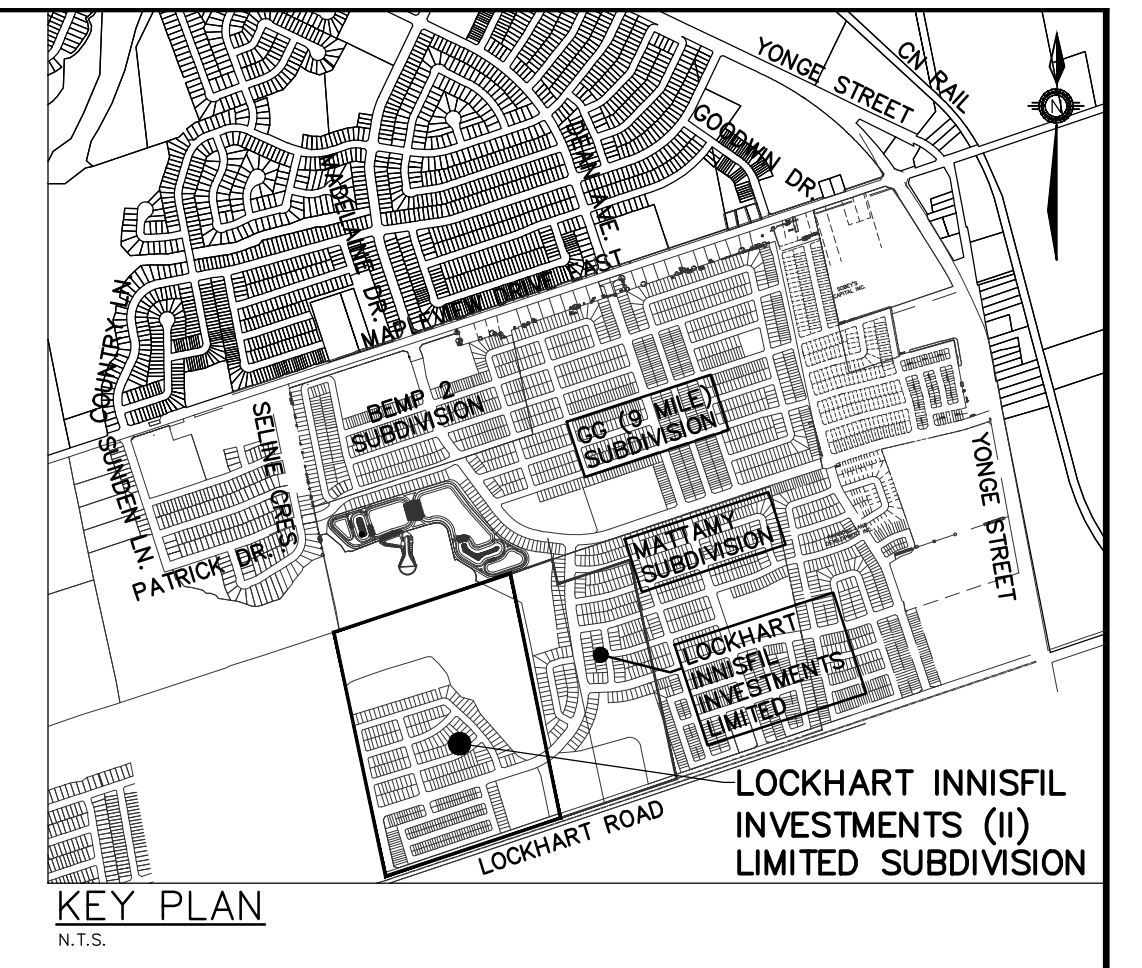
LID DRY SWALE SUBCATCHMENT PLAN

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS

229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1058

DESIGN	KC	SCALE: 1:1000	DATE	JUNE 2021
DRAWN	KC	PROJECT	GOL-20538	DWG. NO
CHECKED	JJ			LID-1

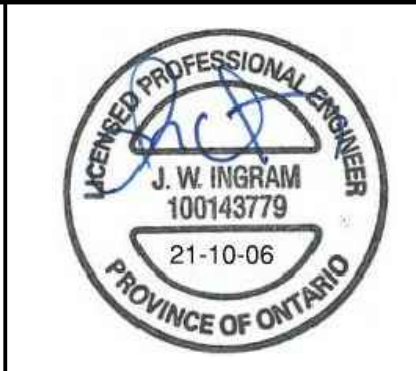
Location	Catchment ID	Area (ha)	Infiltration Rate (mm/hr)	Percent Impervious	Length (m)	Width (m)	Total Depth (m)	North/West End			South/East End		
								Ground Elevation	Water Table Elevation	Distance from Bottom of Swale to Water Table Elevation	Ground Elevation	Water Table Elevation	Distance from Bottom of Swale to Water Table Elevation
Street D	2-501	0.16	13	65%	50.00	2.00	1.70	256.05	253.28	1.00	257.47	253.64	2.06
Street D	2-502	0.10	13	65%	50.00	2.00	1.80	256.05	253.24	1.00	257.47	253.69	1.97
Street D	2-503	0.15	13	65%	50.00	2.00	3.08	257.64	253.56	1.00	258.90	254.11	1.71
Street D	2-504	0.09	13	65%	50.00	2.00	3.15	257.64	253.46	1.00	258.90	254.04	1.68
Street D	2-505	0.21	13	65%	53.00	2.00	3.70	258.99	254.27	1.00	260.01	254.67	1.62
Street D	2-506	0.45	13	65%	53.00	2.00	3.85	258.99	254.14	1.00	260.01	254.56	1.60
Street B	2-507	0.19	13	65%	25.00	2.00	0.78	255.67	253.89	1.00	255.32	253.43	1.11
Street C	2-508	0.27	13	65%	25.00	2.00	1.55	256.45	253.57	1.33	256.10	253.55	1.00
Street C	2-509	0.27	13	65%	26.50	2.00	1.80	256.47	253.37	1.30	256.10	253.30	1.00
Thicketwood	2-510	0.10	13	65%	19.00	2.00	1.70	255.24	252.46	1.07	255.40	252.69	1.00
Thicketwood	1-601	0.37	13	65%	25.00	2.00	1.75	255.99	253.17	1.07	255.34	252.59	1.00
Thicketwood	1-602	0.25	13	65%	25.00	2.00	1.73	255.96	253.12	1.10	255.34	252.60	1.00
Street D	1-603	0.21	13	65%	24.00	2.00	3.95	260.04	254.83	1.26	259.76	254.81	1.00
Street D	1-604	0.02	13	65%	24.00	2.00	4.20	260.05	254.66	1.18	259.76	254.55	1.00
Street E	1-605	0.03	13	65%	21.00	2.00	4.08	261.88	256.79	1.00	262.36	257.15	1.12
Street E	1-606	0.14	13	65%	22.50	2.00	4.20	262.81	257.30	1.30	263.04	257.83	1.00
Street E	1-607	0.14	13	65%	21.00	2.00	2.75	256.58	252.04	1.79	256.72	252.97	1.00
Street E	1-608	0.05	13	65%	22.00	2.00	2.88	255.79	251.91	1.00	256.43	252.05	1.50
Street E	1-609	0.08	13	65%	22.50	2.00	2.98	255.71	251.73	1.00	256.04	251.52	1.54
Street E	1-610	0.07	13	65%	70.00	2.00	3.55	262.82	257.68	1.57	260.84	256.27	1.00
Street E	1-611	0.17	13	65%	88.00	2.00	2.23	260.78	257.27	1.26	258.12	254.87	1.00
Street E	1-612	0.16	13	65%	49.00	2.00	1.88	258.06	254.83	1.33	256.76	253.86	1.00



G:\Eng_3D\GOL-20538-Storm Drainage\DWG\GOL-20538-Storm Drainage.dwg Layout\LD-2 Picked Oct 06, 2021 @ 4:24pm by Jeremee The Jones Consulting Group Ltd.

BENCHMARK:
 BENCHMARK NO: 001193114625 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV: 253.480
 BENCHMARK NO: 0101988454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOVERS CREEK, 0.65m EAST OF HURONIA ROAD. TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 20cm WEST OF THE NORTH-EAST END OF BRIDGE, 19m BELOW TOP OF COPING. ELEV: 241.862
 BENCHMARK NO: 01019880407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N: 4910727.688 E: 607083.931
 BENCHMARK NO: 01019880404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 930m WEST OF YONGE STREET. N: 4911189.897 E: 608953.316

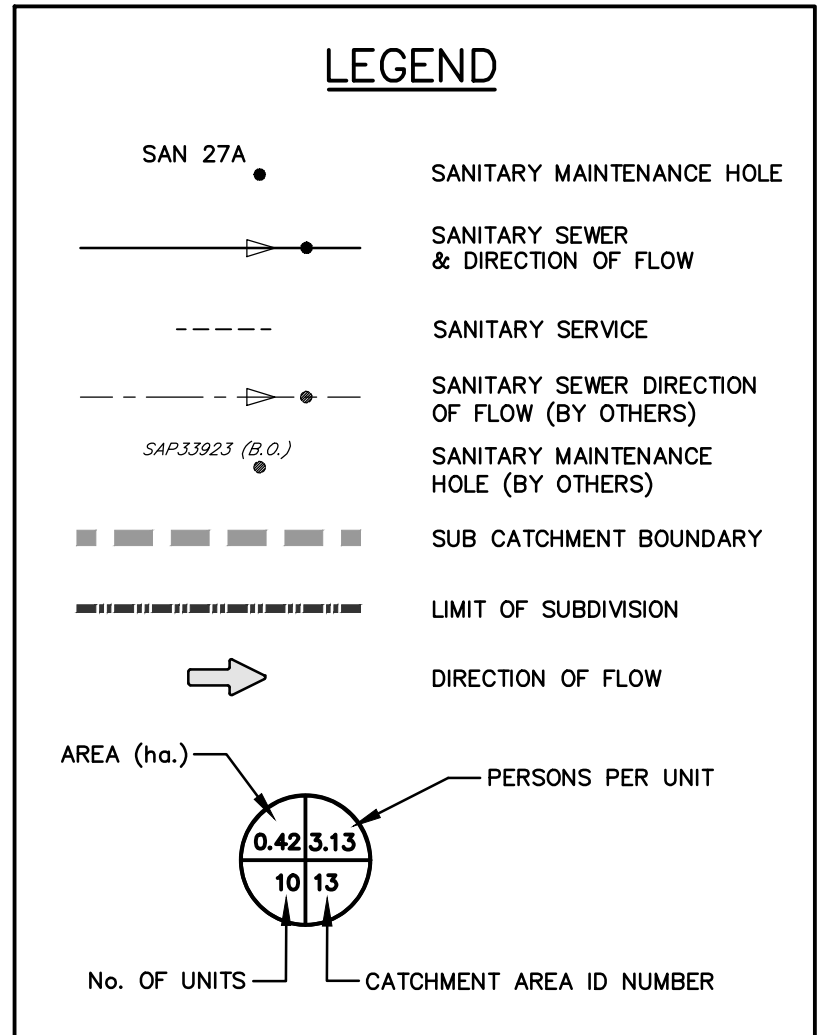
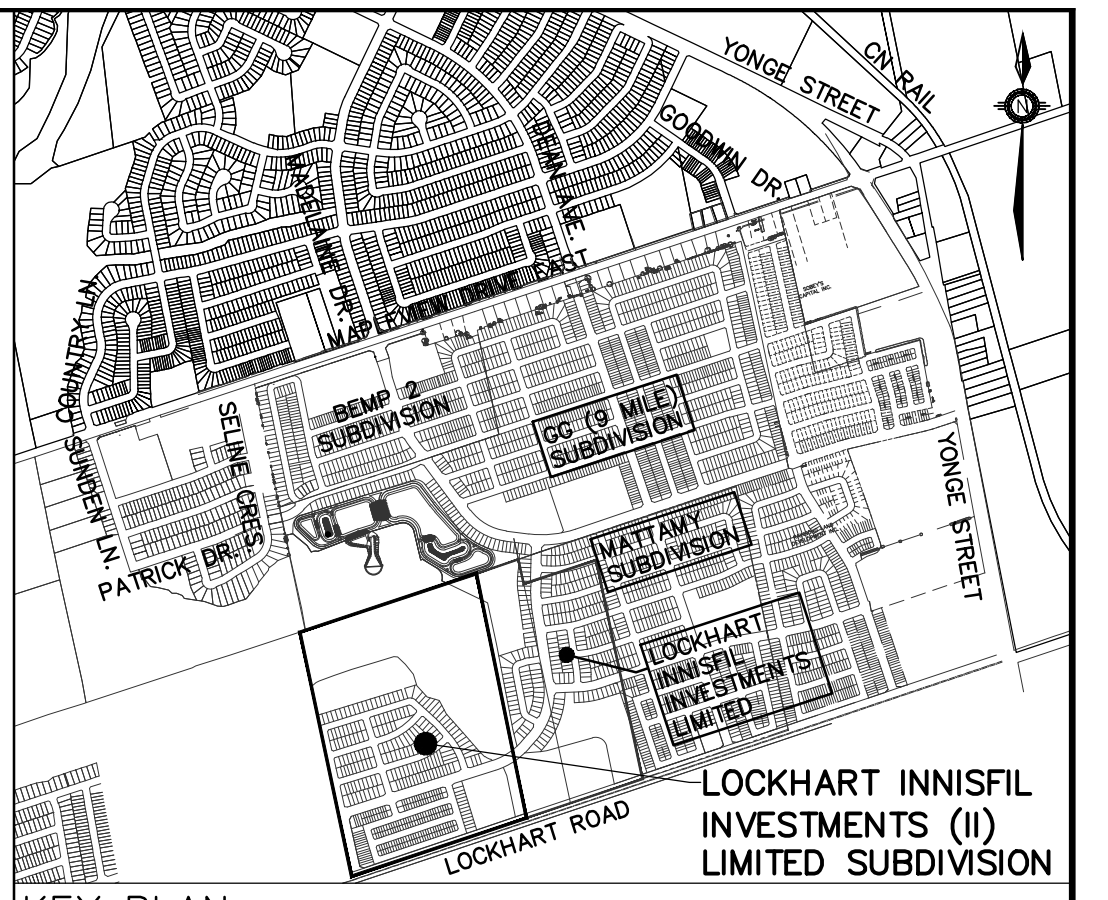
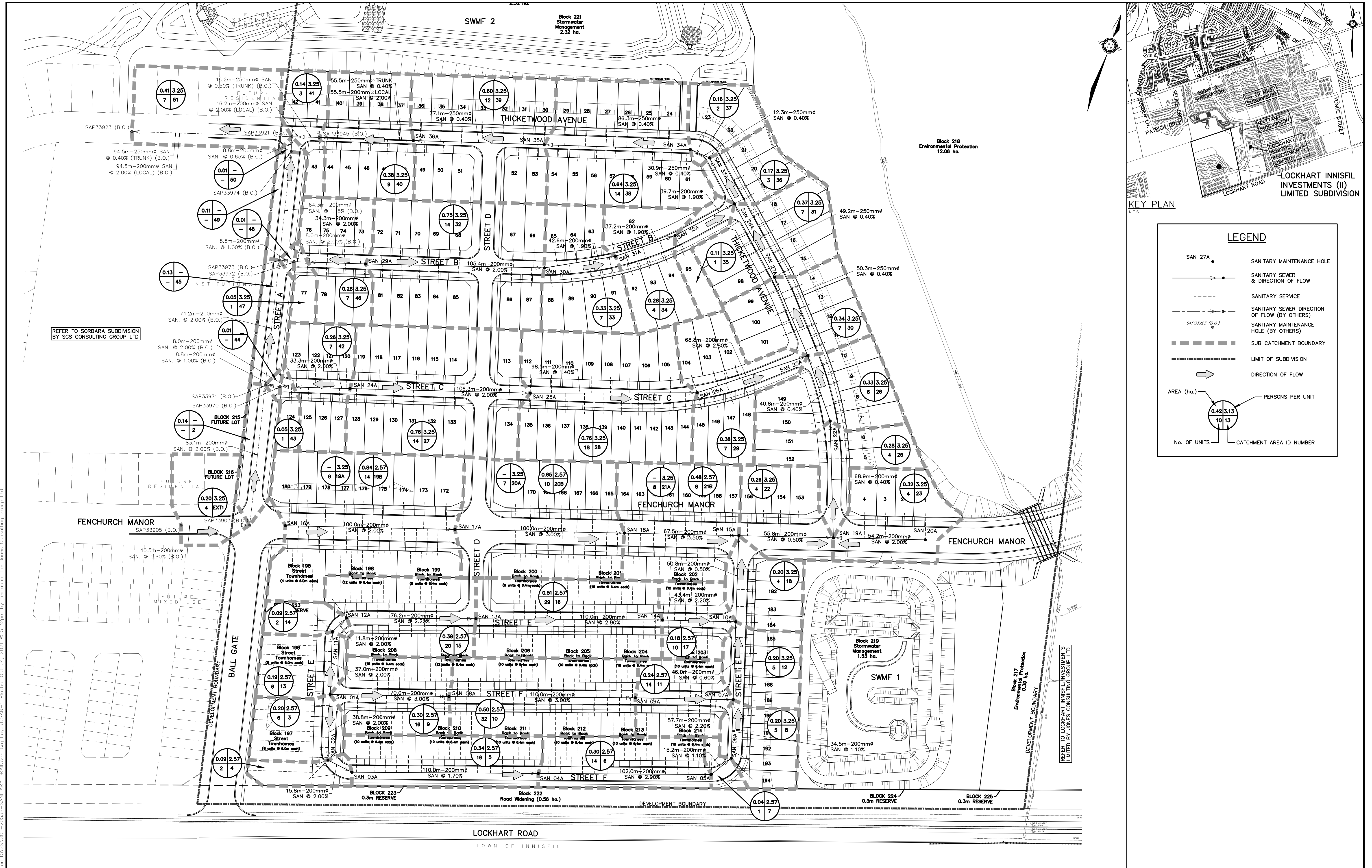
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI
NO.	REVISIONS	DATE	INITIAL



LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION
 LID SECTIONS AND DETAILS
 DRY SWALES

JONES CONSULTING GROUP LTD.
 PLANNERS & ENGINEERS
 229 Mapleview Dr. E. Unit 1
 Barrie, ON L4N 0W5
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 F. 705.734.1056

DESIGN	KC	SCALE: 1:1000	DATE	JUNE 2021
DRAWN	KC	PROJECT	GOL-20538	DWG. NO
CHECKED	JJ	LID-2		



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BENCHMARK:			
BENCHMARK NO: 00110314605 SOUTH WEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV 263.480			
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BENCHMARK NO: 01019880407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N:4910727.688 E:607083.931			
BENCHMARK NO: 01019880404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 930m WEST OF YONGE STREET. N:4911189.997 E:60953.316			
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI
NO.	REVISIONS	DATE	INITIAL



LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION
 SANITARY DRAINAGE AREA PLAN

JONES CONSULTING GROUP LTD.
 PLANNERS & ENGINEERS
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DESIGN	KC	SCALE: 1:1000	DATE	MAY 2021
DRAWN	KC	PROJECT	GOL-20538	DWG. NO
CHECKED	JJ			SAN-1

GOL-20538 Lockhart II														June 2021				
5 Year Storm Sewer Sizing																		
AREAS	Street	MANHOLE		LENGTH (m)	INCREMENT			TOTAL CA	FLOW TIME (min)		I (mm/h)	TOTAL Q (cms)	S (%)	D (mm)	Q FULL (cms)	V FULL (m/s)	% FULL	
		FROM	TO		C	A	CA		TO	IN								
201	Street 'E'	STM 1	STM 2	80.2	0.77	0.30	0.23	0.23	10.00	0.56	109	0.070	3.00	300	0.167	2.37	41.7	
202	Street 'E'	STM 2	STM 3	66.3	0.83	0.28	0.23	0.46	10.56	0.48	106	0.135	2.80	300	0.162	2.29	83.6	
	Street 'E'	STM 3	STM 4	19.0			0	0.46	11.05	0.25	103	0.132	0.50	450	0.202	1.27	65.5	
203	Street 'E'	STM 4	STM 5	32.0	0.78	0.29	0.23	0.69	11.30	0.38	102	0.195	0.50	525	0.304	1.40	64.2	
204	Street 'F'	STM 6	STM 7	81.2	0.83	0.70	0.58	0.58	10.00	0.50	109	0.175	2.90	375	0.299	2.70	58.6	
205	Street 'F'	STM 7	STM 5	67.8	0.83	0.33	0.27	0.85	10.50	0.47	106	0.250	1.80	450	0.383	2.41	65.5	
206	Street 'E'	STM 5	STM 8	46.0	0.71	0.12	0.08	1.62	11.68	0.42	100	0.451	0.60	675	0.651	1.82	69.3	
207	Street 'E'	STM 9	STM 10	38.8	0.69	0.15	0.10	0.10	10.00	0.34	109	0.031	1.90	300	0.133	1.89	23.2	
	Street 'E'	STM 10	STM 11	9.3			0	0.10	10.34	0.08	107	0.030	1.90	300	0.133	1.89	22.8	
208	Street 'E'	STM 11	STM 12	78.9	0.73	0.45	0.33	0.43	10.43	0.55	107	0.128	2.30	375	0.266	2.41	48.2	
209	Street 'E'	STM 12	STM 13	71.5	0.83	0.61	0.50	0.94	10.97	0.44	104	0.269	2.90	375	0.299	2.70	90.2	
210	Street 'E'	STM 13	STM 8	81.8	0.83	0.39	0.33	1.26	11.41	0.54	102	0.356	2.00	450	0.403	2.54	88.3	
211	Street 'E'	STM 8	STM 14	50.9	0.72	0.18	0.13	3.01	12.10	0.40	98	0.823	0.70	750	0.931	2.11	88.3	
212	FENCHURCH	STM 15	STM 16	93.5	0.76	0.35	0.26	0.26	10.00	0.66	109	0.080	3.00	300	0.167	2.37	47.5	
213	FENCHURCH	STM 16	STM 14	85.1	0.72	0.85	0.61	0.87	10.66	0.53	105	0.256	2.80	375	0.293	2.66	87.2	
	FENCHURCH	STM 14	STM 18	54.3			0	3.89	12.50	0.45	97	1.042	0.50	900	1.280	2.01	81.4	
214	FENCHURCH	STM 17	STM 18	74.0	0.65	0.19	0.12	0.12	10.00	0.82	109	0.037	1.20	300	0.106	1.50	35.0	
215	SWMF BLK 219	STM 18	STM 19	16.9	0.65	0.89	0.58	4.59	12.95	0.15	95	1.207	0.40	975	1.417	1.90	85.1	
	SWMF BLK 219	STM 19	STM HW 20	18.4			0	4.59	13.10	0.16	94	1.199	0.40	975	1.417	1.90	84.6	
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
301	Street 'C'	STM 21	STM 22	84.9	0.65	0.81	0.52	0.52	10.00	0.68	109	0.158	1.70	375	0.229	2.07	69.3	
302	Street 'C'	STM 22	STM 23	44.7	0.65	0.52	0.34	0.86	10.68	0.32	105	0.252	1.70	450	0.372	2.34	67.9	
303	Street 'C'	STM 23	STM 24	67.4	0.65	0.48	0.31	1.18	11.00	0.50	104	0.339	1.60	450	0.361	2.27	94.0	
304	THICKETWOOD	STM 24	STM 25	48.5	0.65	0.15	0.10	1.27	11.50	0.53	101	0.358	0.50	600	0.434	1.54	82.4	
305	THICKETWOOD	STM 25	STM 26	50.5	0.65	0.40	0.26	1.53	12.02	0.50	99	0.421	0.60	600	0.476	1.68	88.4	
306	Street 'B'	STM 27	STM 28	29.1	0.65	0.75	0.49	0.49	10.00	0.23	109	0.147	1.70	375	0.229	2.07	64.5	
307	Street 'B'	STM 28	STM 29	46.3	0.65	0.48	0.31	0.80	10.23	0.32	108	0.239	1.80	450	0.383	2.41	62.5	
	Street 'B'	STM 29	STM 30	41.5			0	0.80	10.56	0.29	106	0.235	1.80	450	0.383	2.41	61.5	
308	Street 'B'	STM 30	STM 26	39.0	0.65	0.60	0.39	1.19	10.84	0.31	104	0.344	1.10	525	0.451	2.08	76.3	
	THICKETWOOD	STM 26	STM 31	34.7			0	2.72	12.52	0.32	96	0.729	0.50	750	0.787	1.78	92.6	
	THICKETWOOD	STM 31	STM 34	18.2			0	2.72	12.85	0.17	95	0.719	0.50	750	0.787	1.78	91.3	
309	THICKETWOOD	STM 32	STM 33	58.3	0.65	0.85	0.55	0.55	10.00	0.77	109	0.167	0.50	450	0.202	1.27	83.0	
	THICKETWOOD	STM 33	STM 34	54.0			0	0.55	10.77	0.71	105	0.161	0.50	450	0.202	1.27	79.9	
310	SWMF BLK 221	STM 34	STM 35	35.0	0.65	0.62	0.40	3.68	13.02	0.10	94	0.965	5.00	750	2.489	5.63	38.7	
	SWMF BLK 221	35	HW 36	20.6			0	3.68	13.12	0.06	94	0.960	5.00	750	2.489	5.63	38.6	
Q = C*A/360 (cms);					C = RUNOFF COEFFICIENT;					I = RAINFALL INTENSITY (5 Year) = 853.608 / (T.C. + 4.699) ^ 0.766;					A = AREA (ha)			
Note:																		

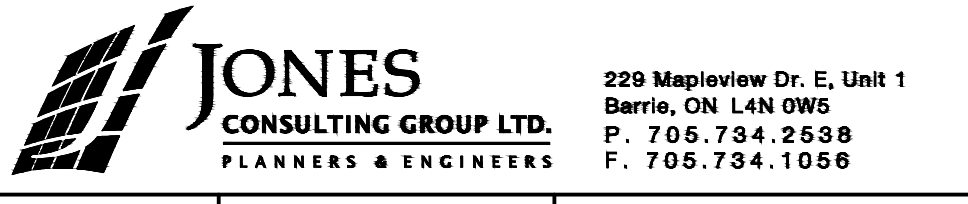
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BENCHMARK:
 BENCHMARK NO: 001193114605 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV 253.480
 BENCHMARK NO: 0101980454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOVERS CREEK, 0.65m EAST OF HURONIA ROAD. TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTERLINE OF ROAD, 20cm WEST OF THE NORTH-EAST END OF BRIDGE, 19cm BELOW TOP OF COPING. ELEV 241.862
 BENCHMARK NO: 0101980407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N:4910727.688 E:607083.931
 BENCHMARK NO: 0101980404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 930m WEST OF YONGE STREET. N:4911189.897 E:608953.316

1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI
NO.	REVISIONS	DATE	INITIAL



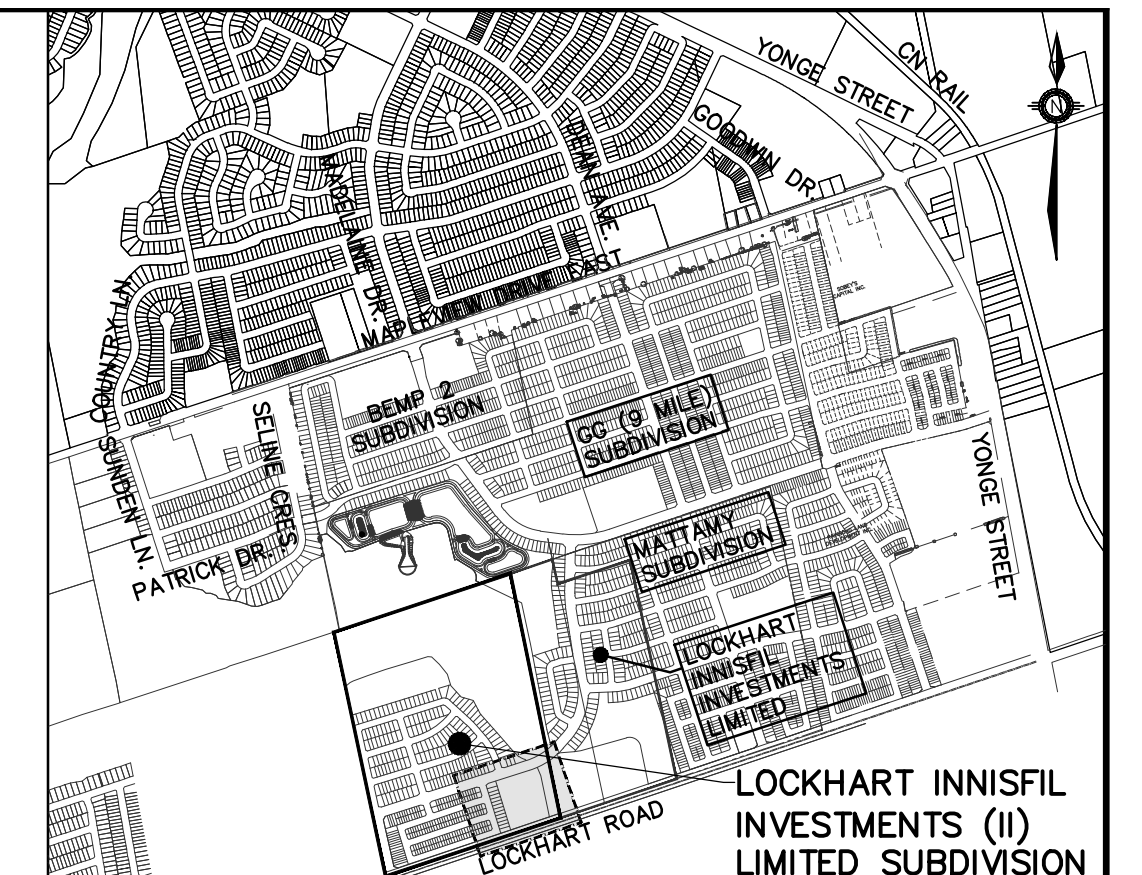
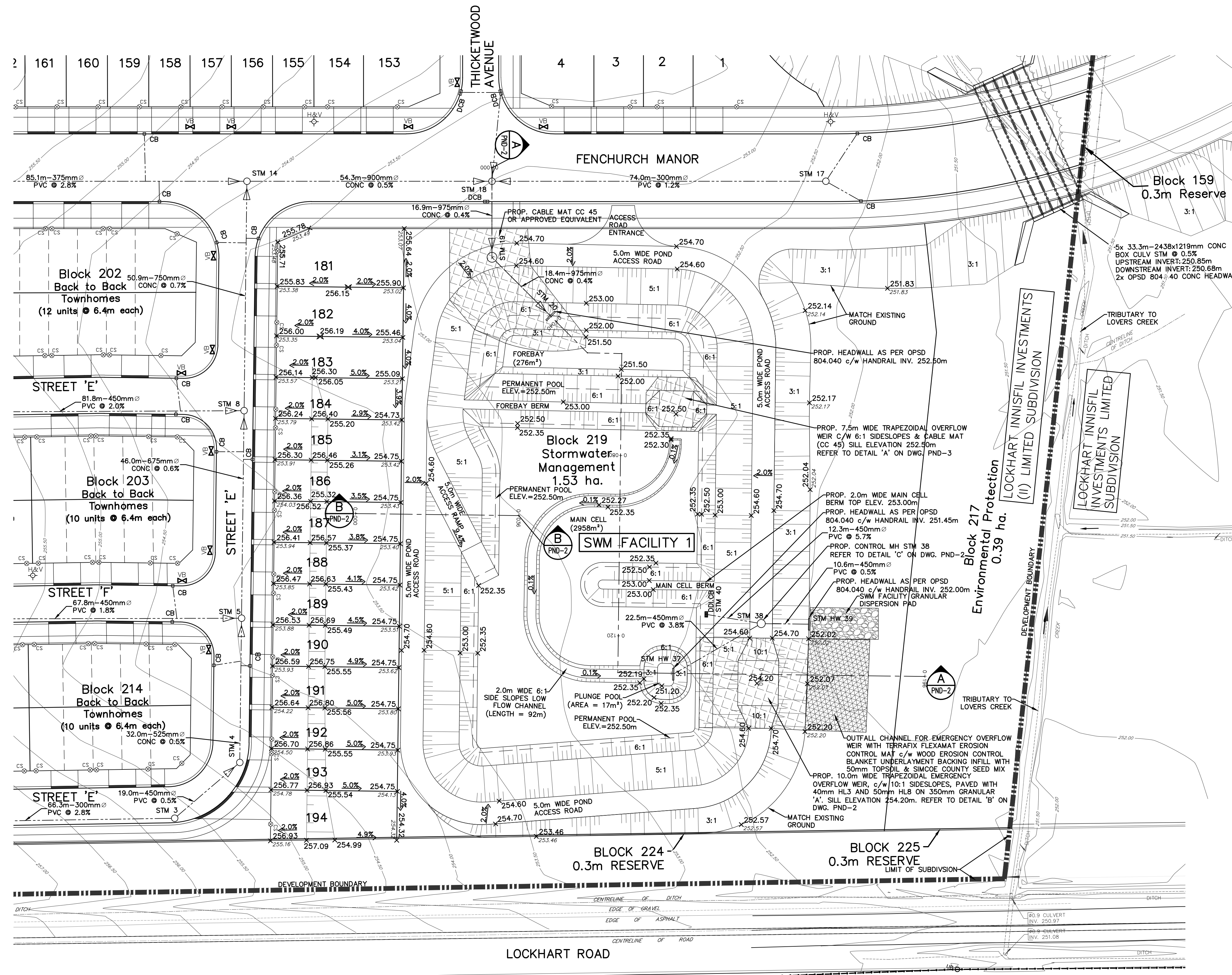
LOCKHART INNISFIL INVESTMENTS (II) LIMITED
 SUBDIVISION
 STORM SEWER DESIGN SHEET



DESIGN	VBS	SCALE:	NTS	DATE	JUNE 2021
DRAWN	VBS	PROJECT	GOL-20538	DWG. NO	DS-1
CHECKED	JL				

SANITARY SEWER DESIGN - LOCAL SEWER																				DESIGN SHEET																					
Development Details Basis																				FILE NO GOL-20538																					
CONTRACT / PROJECT LOCKHART INNISFIL INVESTMENTS (II) LIMITED																																									
$n \geq 0.013$ $M = 5P^{0.2}$ Babbit $M = 1.14(4+P^{0.5})$ Harmon $Q_p = P^{0.7} M^{0.6}$ $Q_e = I^A$ $Q_{pe} = Q_p + Q_e$																				Numbers in blue or text in red are equations (Harmon or Babbitt peaking factor where: $M \geq 2$), the greater of the two is used in the spreadsheet. Please refer to Section 3.3.1.1 of the Barrie Sanitary Design Guidelines for additional guidance on which peaking factor to use. (Peak population flow where: $q = 225$ L/day/person; $P =$ population in thousands) (Peak extraneous flow: $I = 0.1$ L/s/ha over development area) (Total peak flow as the sum of peak population flow and peak extraneous flow)																				225 litres/person/day	
STREET	AREA	MAINTENANCE HOLE		DWELL UNITS	DWELL (ACC) UNITS	DENSITY P.P.U.	POP. (P)	POP. (ACC)	M PEAKING FACTOR BABBIT	M PEAKING FACTOR HARMON	Max PEAKING FACTOR	Q _p (l/s)	AREA (ha)	AREA (ACC) (ha)	Q _e (l/s)	Q _{pe} (l/s)	L (m)	D (mm)	S (%)	Q _F FULL (l/s)	d/D ¹⁰	d/D ¹⁰ >0.5 or >0.7	Velocity FULL (m/s)	Velocity Partial ⁽¹⁾ (m/s)	Velocity ⁽¹⁾ > 0.6 (m/s)																
Street E	3	SAN 01A	SAN 02A	6	6	2.57	15.42	15.42	11.517	4.395	11.517	0.462	0.20	0.20	0.020	0.482	38.8	200	2.00	46.384	0.071	Ok	1.476	0.472	Check																
Street E	4	SAN 02A	SAN 03A	2	8	2.57	5.14	20.56	10.873	4.379	10.873	0.582	0.09	0.09	0.028	0.811	15.8	200	2.00	46.384	0.080	Ok	1.476	0.588	Check																
Street E	5	SAN 03A	SAN 04A	16	24	2.57	41.12	61.88	8.729	4.295	8.729	1.002	0.34	0.63	0.063	1.465	110.0	200	1.70	42.764	0.126	Ok	1.361	0.625	Ok																
Street E	6	SAN 04A	SAN 05A	14	38	2.57	35.98	97.86	7.862	4.246	7.862	1.202	0.31	0.94	0.094	2.119	102.0	200	2.90	55.854	0.133	Ok	1.778	0.841	Ok																
Street E	7	SAN 05A	SAN 06A	1	39	2.57	2.57	100.23	7.921	4.343	7.921	2.087	0.03	0.97	0.097	2.164	15.2	200	1.10	34.399	0.170	Ok	1.095	0.652	Ok																
Street E	8	SAN 06A	SAN 07A	5	44	3.25	16.25	116.48	7.686	4.225	7.686	2.332	0.20	1.17	0.117	2.449	34.5	200	1.10	34.399	0.180	Ok	1.095	0.624	Ok																
Street F	9	SAN 01A	SAN 08A	16	16	2.57	41.12	41.12	9.466	4.331	9.466	1.014	0.30	0.30	0.030	1.044	70.0	200	3.00	56.809	0.094	Ok	1.808	0.688	Ok																
Street F	10	SAN 08A	SAN 09A	32	48	2.57	82.24	123.36	7.599	4.217	7.599	2.441	0.80	0.80	0.080	2.921	110.0	200	3.00	56.809	0.143	Ok	1.808	0.900	Ok																
Street F	11	SAN 09A	SAN 07A	14	62	2.57	35.98	159.34	7.219	4.182	7.219	2.986	0.24	1.04	0.104	3.100	57.7	200	2.20	46.648	0.171	Ok	1.549	0.858	Ok																
Street E	12	SAN 07A	SAN 10A	5	111	3.25	16.25	292.07	6.395	4.083	6.395	4.864	0.20	2.41	0.241	5.105	46.0	200	0.80	25.406	0.304	Ok	0.859	0.623	Ok																
Street E	13	SAN 01A	SAN 11A	6	6	2.57	15.42	15.42	11.517	4.395	11.517	0.462	0.19	0.19	0.019	0.481	37.0	200	2.00	46.384	0.071	Ok	1.476	0.472	Check																
Street E	14	SAN 11A	SAN 12A	2	8	2.57	5.14	20.56	10.873	4.379	10.873	0.582	0.09	0.09	0.028	0.810	11.8	200	2.00	46.384	0.080	Ok	1.476	0.588	Check																
Street E	15	SAN 12A	SAN 13A	20	28	2.57	51.40	71.96	8.454	4.280	8.454	1.586	0.38	0.66	0.066	1.652	75.2	200	2.20	46.648	0.126	Ok	1.549	0.708	Ok																
Street E	16	SAN 13A	SAN 14A	29	57	2.57	74.53	146.49	7.342	4.194	7.342	2.801	0.51	1.17	0.117	2.918	110.0	200	2.90	55.854	0.155	Ok	1.778	0.926	Ok																
Street E	17	SAN 14A	SAN 15A	10	67	2.57	25.70	172.19	7.108	4.171	7.108	3.167	0.18	1.35	0.135	3.322	43.4	200	2.80	46.648	0.178	Ok	1.549	0.873	Ok																
Street E	18	SAN 15A	SAN 16A	4	152	3.25	13.00	477.26	5.797	3.985	5.797	3.965	0.20	3.96	0.396	7.601	50.8	200	0.90	23.192	0.393	Ok	0.736	0.651	Ok																
Fenchurch Manor	19A			9		3.25	29.25																																		
Fenchurch Manor	19B	SAN 16A	SAN 17A	14	23	3.25	35.98	65.23	8.631	4.290	8.631	1.468	0.84	0.84	0.084	1.550	100.0	200	2.00	46.384	0.125	Ok	1.476	0.668	Ok																
Fenchurch Manor	20A			7		3.25	22.75																																		
Fenchurch Manor	20B	SAN 17A	SAN 18A	10	40	2.57	25.70	113.68	7.724	4.228	7.724	2.287	0.65	1.49	0.149	2.436	100.0	200	3.00	56.809	0.141	Ok	1.808	0.880	Ok																
Fenchurch Manor	21A			8		3.25	26.00																																		
Fenchurch Manor	21B	SAN 18A	SAN 15A	8	56	2.57	20.56	160.24	7.211	4.182	7.211	3.009	0.48	1.97	0.197	3.206	67.5	200	3.00	61.360	0.155	Ok	1.953	1.009	Ok																
Fenchurch Manor	22	SAN 15A	SAN 19A	4	242	3.25	13.00	690.50	5.449	3.913	5.449	9.231	0.26	6.19	0.619	10.850	55.8	200	0.90	23.192	0.454	Ok	0.736	0.696	Ok																
Fenchurch Manor	23	SAN 20A	SAN 19A	4	4	3.25	13.00	13.00	11.917	4.003	11.917	0.403	0.32	0.32	0.032	0.458	54.2	200	2.00	46.384	0.068	Ok	1.476	0.454	Check																
Thicketwood Avenue	25	SAN 18A	SAN 22A	4	250	3.25	13.00	676.50	5.407	3.903	5.407	9.525	0.28	6.79	0.679	10.204	68.8	200	0.40	20.744	0.465	Ok	0.680	0.648	Ok																
Thicketwood Avenue	26	SAN 22A	SAN 23A	6	296	3.25	19.50	696.00	5.376	3.998	5.376	9.844	0.33	7.12	0.712	10.456	40.8	250	2.40	37.611	0.390	Ok	0.736	0.643	Ok																
Street C	27	SAN 24A	SAN 25A	14	14	3.25	45.50	45.50	9.276	4.323	9.276	1.099	0.76	0.76	0.076	1.174	106.4	200	2.00	46.384	0.109	Ok	1.476	0.615	Ok																
Street C	28	SAN 25A	SAN 26A	18	35	3.25	58.50	104.00	7.863	4.239	7.863	2.109	0.76	1.52	0.152	2.261	98.5	200	1.40	38.808	0.164	Ok	1.235	0.662	Ok																
Street C	29	SAN 26A	SAN 23A	7	39	3.25	22.75	126.75	7.558	4.214	7.558	2.695	0.38	1.90	0.190	2.685	68.8	200	2.80	54.682	0.150	Ok	1.747	0.684	Ok																
Thicketwood Avenue	30	SAN 23A	SAN 27A	7	302	3.25	22.75	845.50	5.171	3.846	5.171	11.385	0.34	9.36	0.936	12.321	50.3	250	0.40	37.611	0.393	Ok	0.736	0.671	Ok																
Thicketwood Avenue	31	SAN 27A	SAN 28A	7	309	3.25	22.75	868.25	5.143	3.839	5.143	11.629	0.37	9.73	0.973	12.602	49.2	250	0.40	37.611	0.398	Ok	0.736	0.675	Ok																
Street B	32	SAN 28A	SAN 30A	14	14	3.25	45.50	45.50	9.276	4.323	9.276	1.099	0.75	0.75	0.075	1.174	106.4	200	2.00	46.384	0.109	Ok	1.476	0.615	Ok																
Street B	33	SAN 30A	SAN 31A	7	21	3.25	22.75	68.25	6.554	4.285	6.554	1.520	0.33	1.08	0.108	1.628	42.6	200	1.90	45.210	0.129	Ok	1.439	0.664	Ok																
Street B	34	SAN 31A	SAN 32A	4	25	3.25	13.00	81.25	8.260	4.267	8.260	1.748	0.28	1.36	0.136	1.884	37.2	200	1.90	45.210	0.139	Ok	1.439	0.694	Ok																
Street B	35	SAN 32A	SAN 28A	1	26	3.25	84.50	84.50	6.196	4.263	6.196	1.804	0.11	1.47	0.147	1.951	39.7	200	1.90	45.210	0.141	Ok	1.439	0.700	Ok																
Thicketwood Avenue	36	SAN 28A	SAN 33A	3	338	3.25	9.75	962.50	5.038	3.811	5.038	12.629	0.17	11.37	1.137	13.766	30.9	250	0.40	37.611	0.418	Ok	0.736	0.690	Ok																
Thicketwood Avenue	37	SAN 33A	SAN 34A	2	340	3.25	6.50	969.00	5.023	3.809	5.023	12.697	0.18	11.53	1.153	13.859	12.3	250	0.40	37.611	0.420	Ok	0.736	0.691	Ok																
Thicketwood Avenue	38	SAN 34A	SAN 35A	14	354	3.25	45.50	1014.50	4.986	3.798	4.986	13.172	0.64	12.17	1.217	14.389	66.3	250	0.40	37.611	0.429	Ok	0.736	0.698	Ok																
Thicketwood Avenue	39	SAN 35A	SAN 36	12	366	3.25	39.00	1053.50	4.948	3.785	4.948	13.575	0.60	12.77	1.277	14.852	77.1	250	0.40	37.611	0.438	Ok	0.736	0.704	Ok																
Thicketwood Avenue	40 (Trunk)	SAN 36	SAP33945	365																																					
Thicketwood Avenue	40 (Local)	SAN 36	SAP33945	9	9	3.25	29.25	29.25	10.133	4.358	10.133	0.772	0.38	0.38	0.038	0.810	55.5	200	2.00	46.384	0.091	Ok	1.476	0.550	Check																
Thicketwood Avenue	41 (Trunk)	SAP33945	SAP33921	375																																					
Thicketwood Avenue	41 (Local)	SAP33945	SAP33921	3	3	3.25	9.75	12.623	4.416	4.416	12.623	0.381	0.14	13.29	1.329	15.205	16.2	250	0.50	42.050	0.415	Ok	0.857	0.768	Ok																

SANITARY SEWER DESIGN - LOCAL SEWER																				DESIGN SHEET																					
Development Details Basis																				FILE NO GOL-20538																					
CONTRACT / PROJECT LOCKHART INNISFIL INVESTMENTS (II) LIMITED																																									
$n \geq 0.013$ $M = 5P^{0.2}$ Babbit $M = 1.14(4+P^{0.5})$ Harmon $Q_p = P^{0.7} M^{0.6}$ $Q_e = I^A$ $Q_{pe} = Q_p + Q_e$																				Numbers in blue or text in red are equations (Harmon or Babbitt peaking factor where: $M \geq 2$), the greater of the two is used in the spreadsheet. Please refer to Section 3.3.1.1 of the Barrie Sanitary Design Guidelines for additional guidance on which peaking factor to use. (Peak population flow where: $q = 225$ L/day/person; $P =$ population in thousands) (Peak extraneous flow: $I = 0.1$ L/s/ha over development area) (Total peak flow as the sum of peak population flow and peak extraneous flow)																				225 litres/person/day	
STREET																																									



KEY PLAN
NTS

LEGEND

- STM MH ○ STORM MAINTENANCE HOLE
- DCB □ STORM DOUBLE CATCHBASIN
- DI.CB □ DOUBLE DITCH INLET CATCHBASIN
- CB □ STORM CATCHBASIN
- PROP. STORM SEWER & DIRECTION OF FLOW
- — — — — LIMIT OF SUBDIVISION
- — — — — EXISTING CONTOUR AND ELEVATION

24 HR SCS TYPE II STORM WATER ELEVATION	
Storm Event	Elevation (m)
25mm 4hr. Chicago	252.65
2yr. 24hr. SCS	252.84
5yr. 24hr. SCS	252.99
10yr. 24hr. SCS	253.08
25yr. 6hr. SCS	253.20
50yr. 6hr. SCS	253.29
100yr. 6hr. SCS	253.39
Hazel	253.89

BENCHMARK:

BENCHMARK NO: 001193114625 SOUTH WEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV. 253.490

BENCHMARK NO: 0101988454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOVERS CREEK, 0.65m EAST OF HURONIA ROAD. TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 20cm WEST OF THE NORTH-EAST END OF BRIDGE, 19cm BELOW TOP OF COPING. ELEV. 241.862

BENCHMARK NO: 01019880407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N. 4910727.688 E. 607083.931

BENCHMARK NO: 01019880404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 930m WEST OF YONGE STREET. N. 4911189.897 E. 608953.316

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI

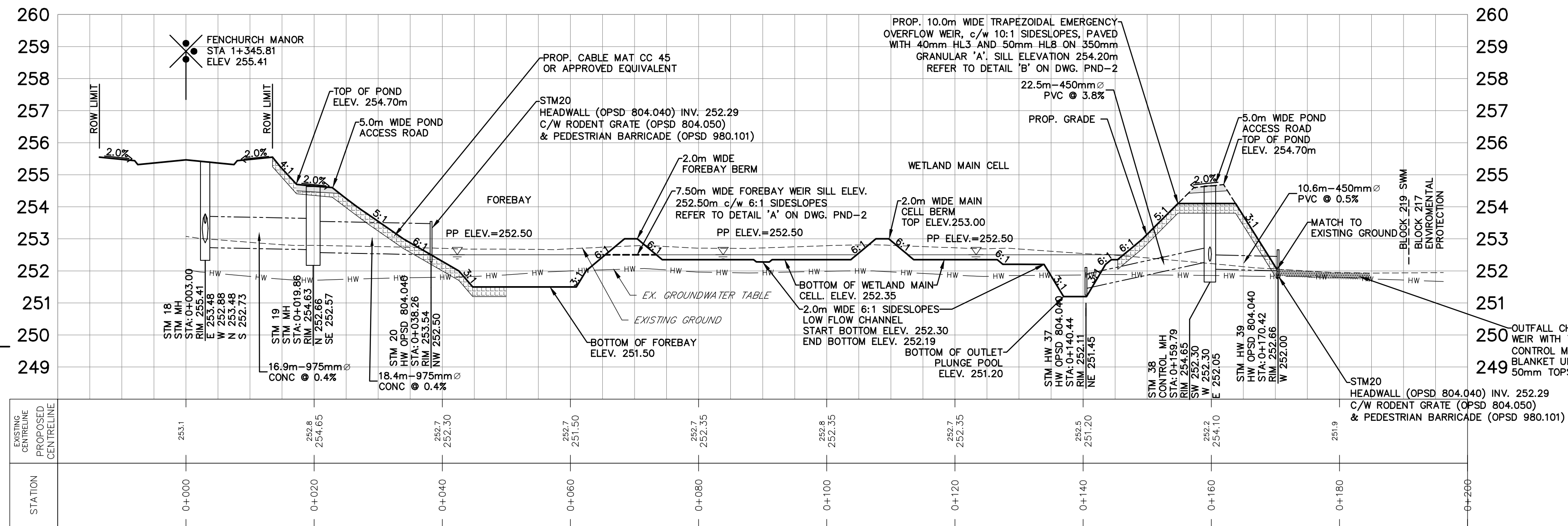


LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION
SWM FACILITY No. 1
PLAN VIEW

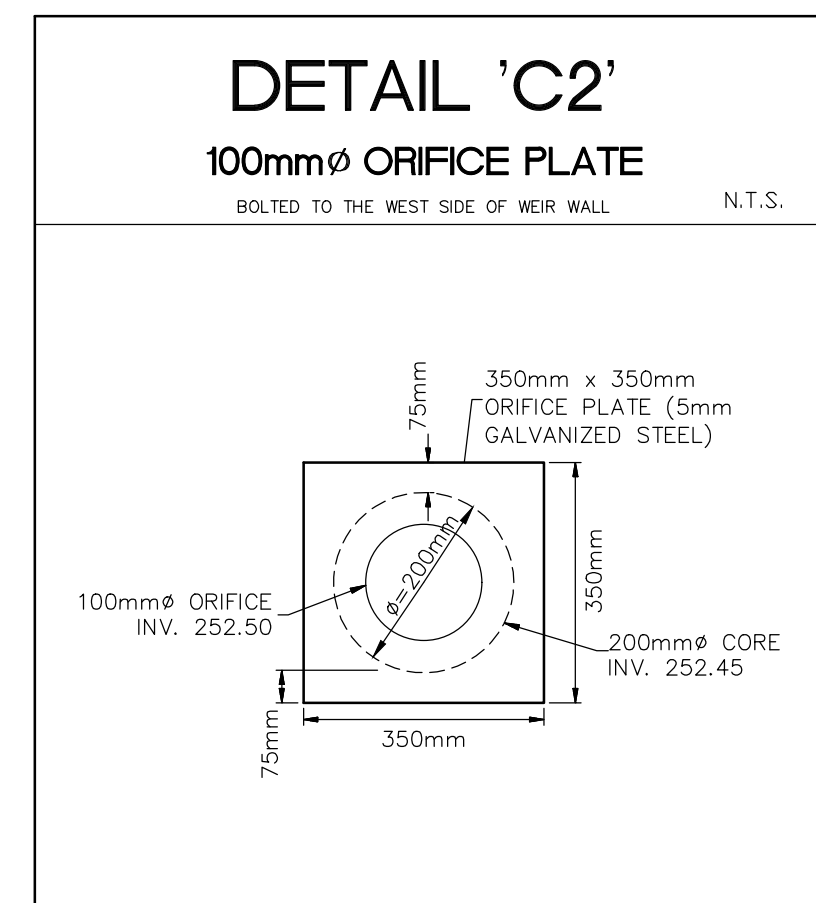
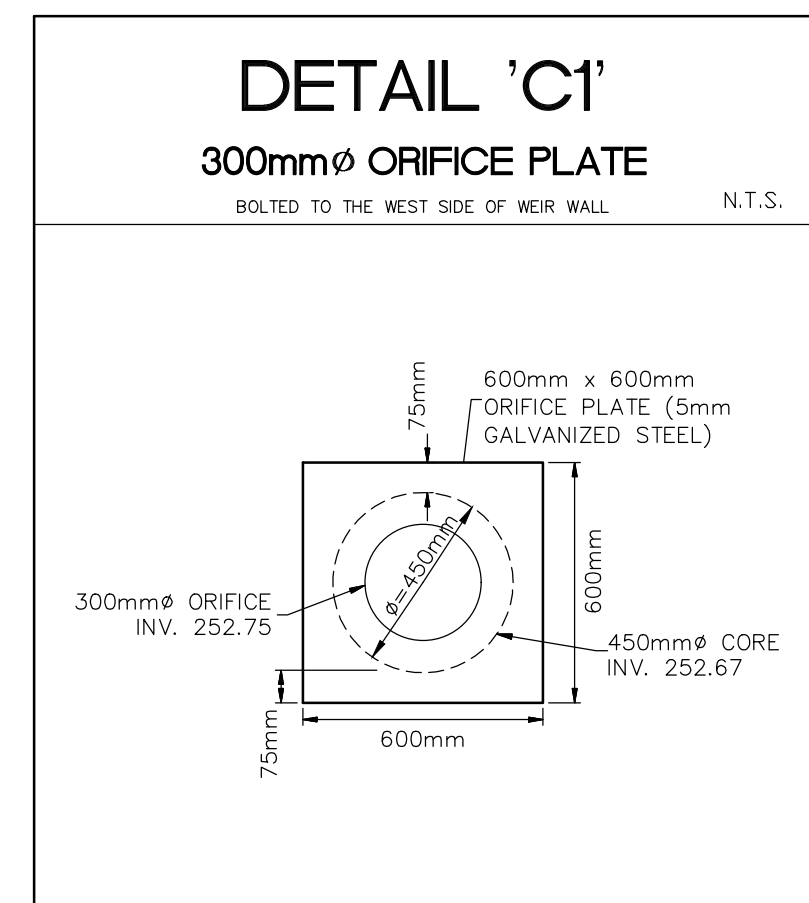
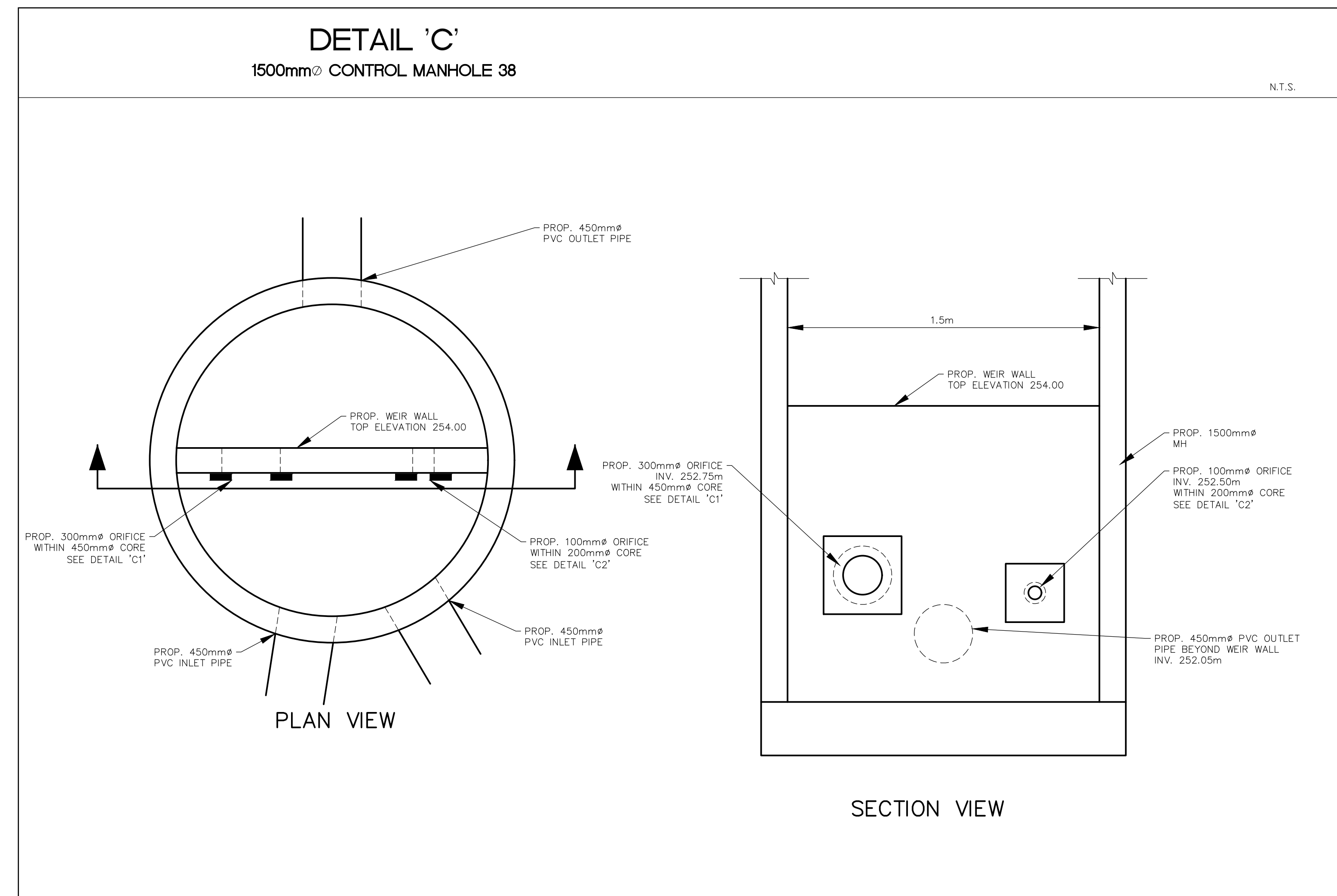
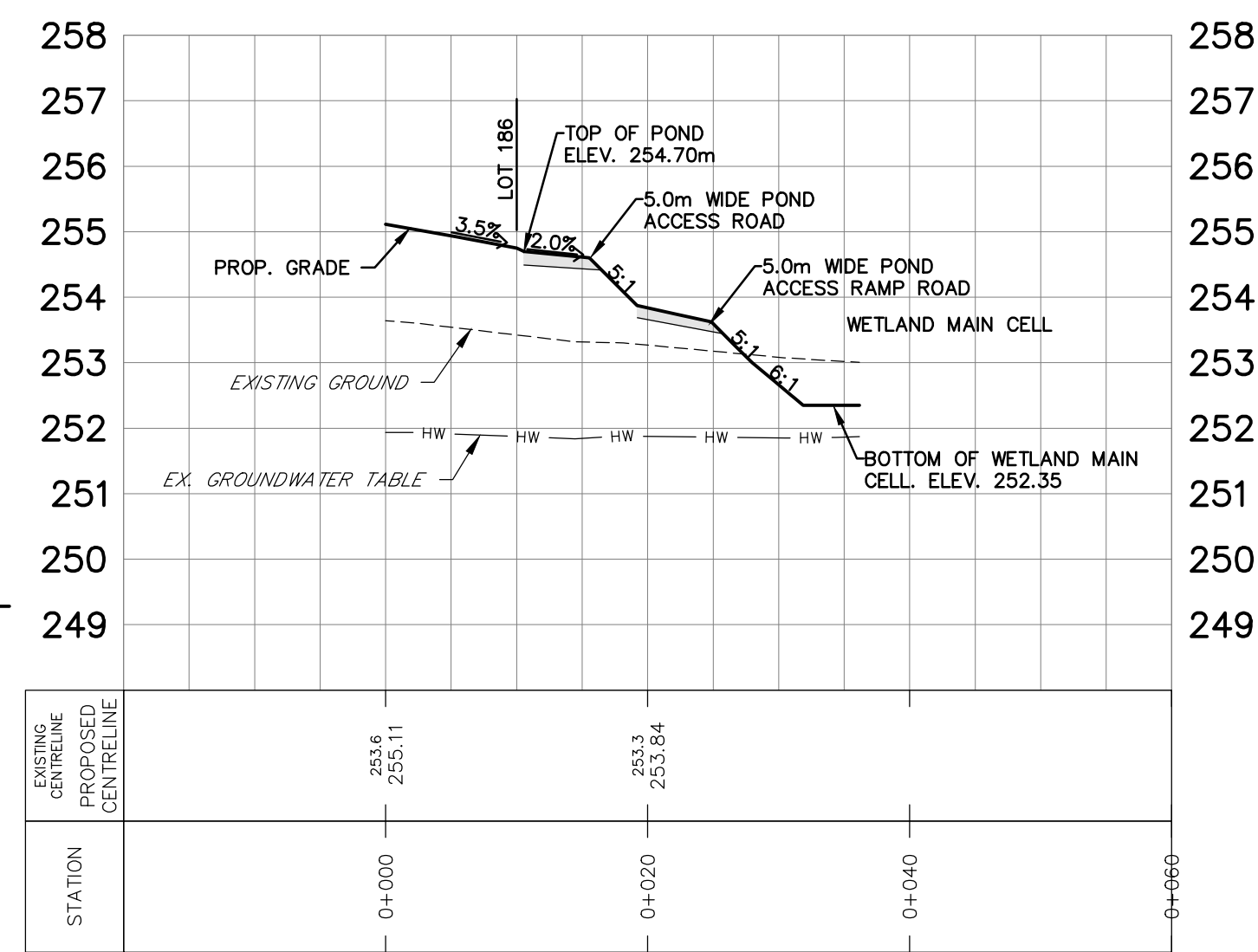
JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W5
P. 706.734.2538
F. 706.734.1056

DESIGN	VBS	SCALE: 1:500	DATE	JUNE 2021
DRAWN	VBS	PROJECT	DWG. NO	
CHECKED	JJ	GOL-20538	PND-1	

G:\Eng_3D\GOL-20538\Production\DWG\GOL-20538-IPND.dwg Layout:PND-1 Printed: Oct. 04, 2021 @ 5:09pm by: Jermom The Jones Consulting Group Ltd.



24 HR SCS TYPE II STORM WATER ELEVATION	
Storm Event	Elevation (m)
25mm 4hr. Chicago	252.65
2yr. 24hr. SCS	252.84
5yr. 24hr. SCS	252.99
10yr. 24hr. SCS	253.08
25yr. 6hr. SCS	253.20
50yr. 6hr. SCS	253.29
100yr. 6hr. SCS	253.39
Hazel	253.89



BENCHMARK:

BENCHMARK NO: 00119314625 SOUTH WEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 0.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV. 253.490

BENCHMARK NO: 0101980454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOVERS CREEK, 0.65m EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 20m WEST OF THE NORTH-EAST END OF BRIDGE, 19m BELOW TOP OF COPING. ELEV. 241.862

BENCHMARK NO: 0101980407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N.4910727.688 E.607083.931

BENCHMARK NO: 0101980404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 930m WEST OF YONGE STREET. N.4911189.897 E.608953.316

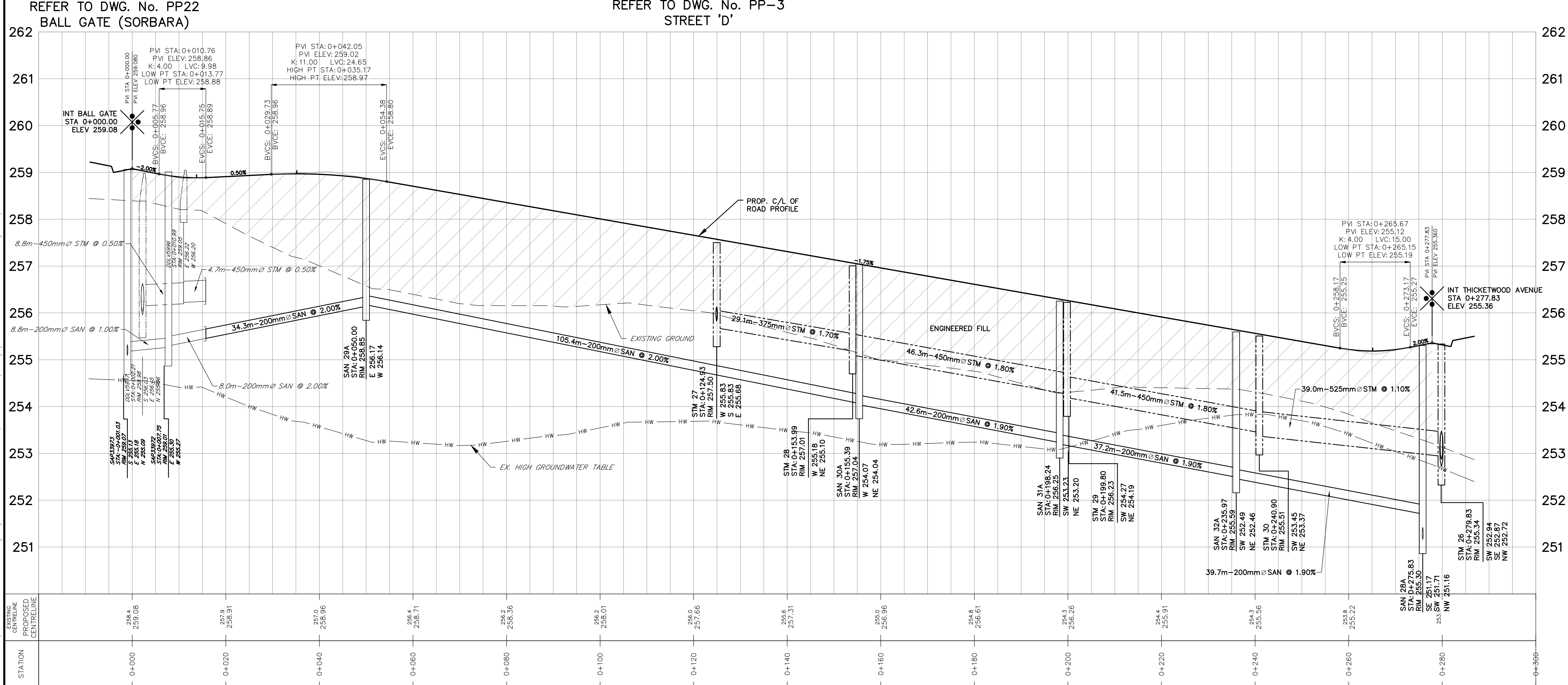
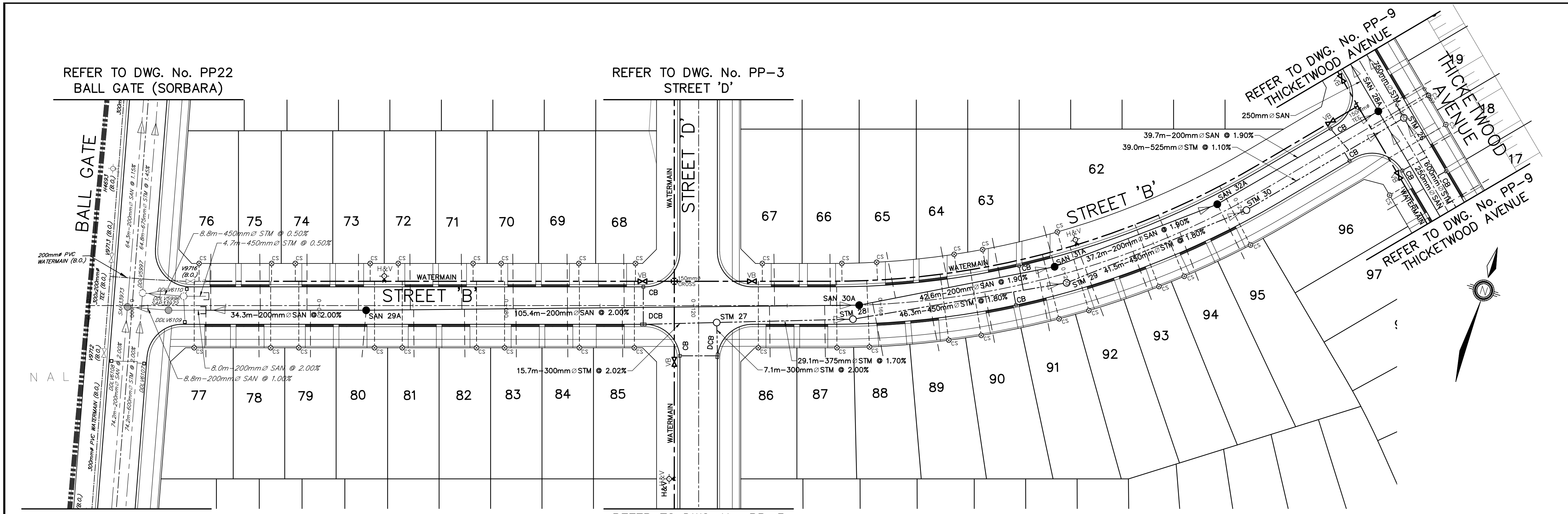
NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI



LOCKHART INNISFIL INVESTMENTS (II) LIMITED
SUBDIVISION
SWM FACILITY No. 1
SECTIONS AND DETAILS



DESIGN	VBS	SCALE: AS NOTED	DATE	JUNE 2021
DRAWN	VBS	PROJECT	DWG. NO	
CHECKED	JJ	GOL-20538	PND-2	



BENCHMARK:

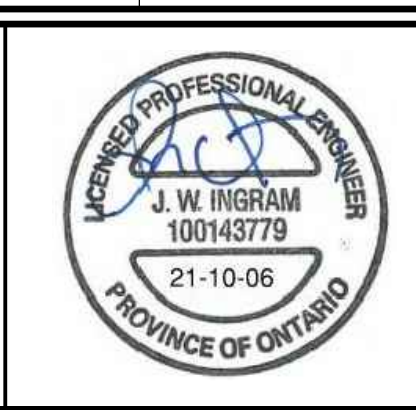
BENCHMARK NO. 00191314605 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 9.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV 263.480

BENCHMARK NO. 01019885454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOWERS CREEK, 0.55m EAST OF HURONIA ROAD. TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 25cm WEST OF THE NORTH-EAST END OF BRIDGE, 19cm BELOW TOP OF COPING. ELEV. 241.862

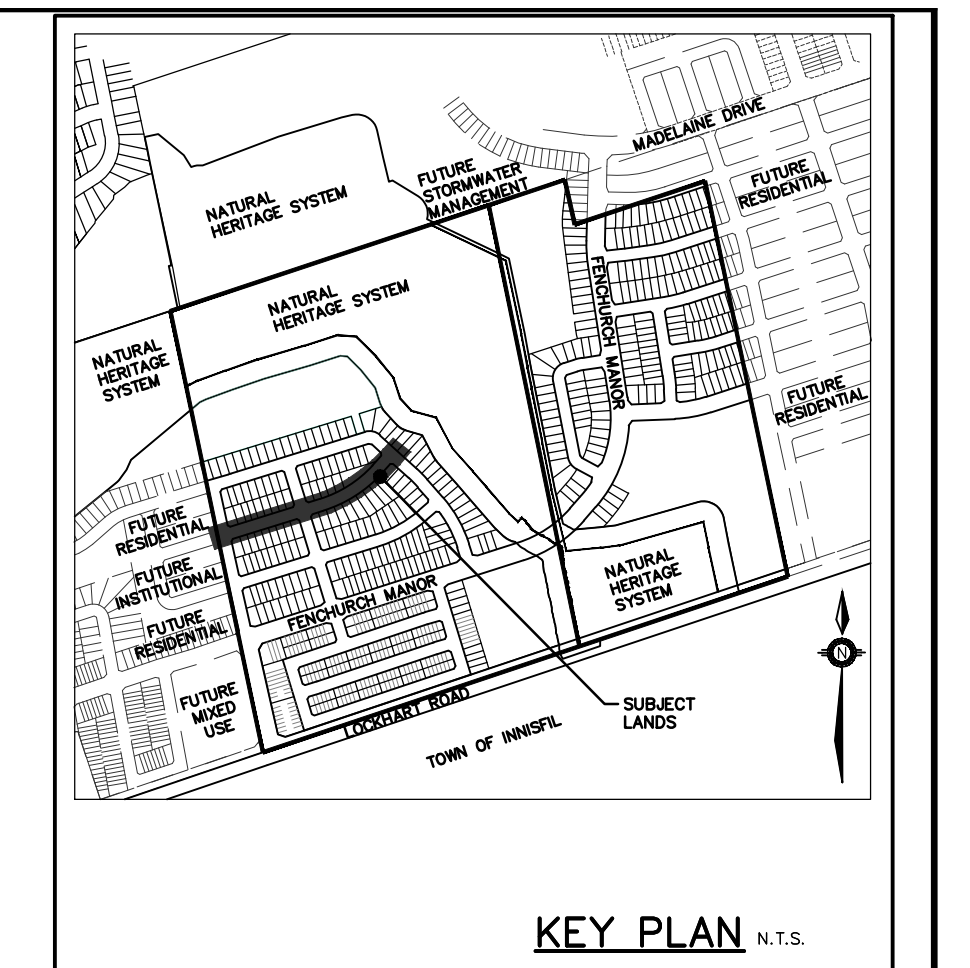
BENCHMARK NO. 01019880407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N.4910727.688 E.607083.931

BENCHMARK NO. 01019880404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 300m WEST OF YONGE STREET. N.491198297 E.606513.319

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI



LOCKHART INNISFIL INVESTMENTS (II) LIMITED
SUBDIVISION
PLAN AND PROFILE
STREET 'B'
0-009 TO 0+287



LEGEND

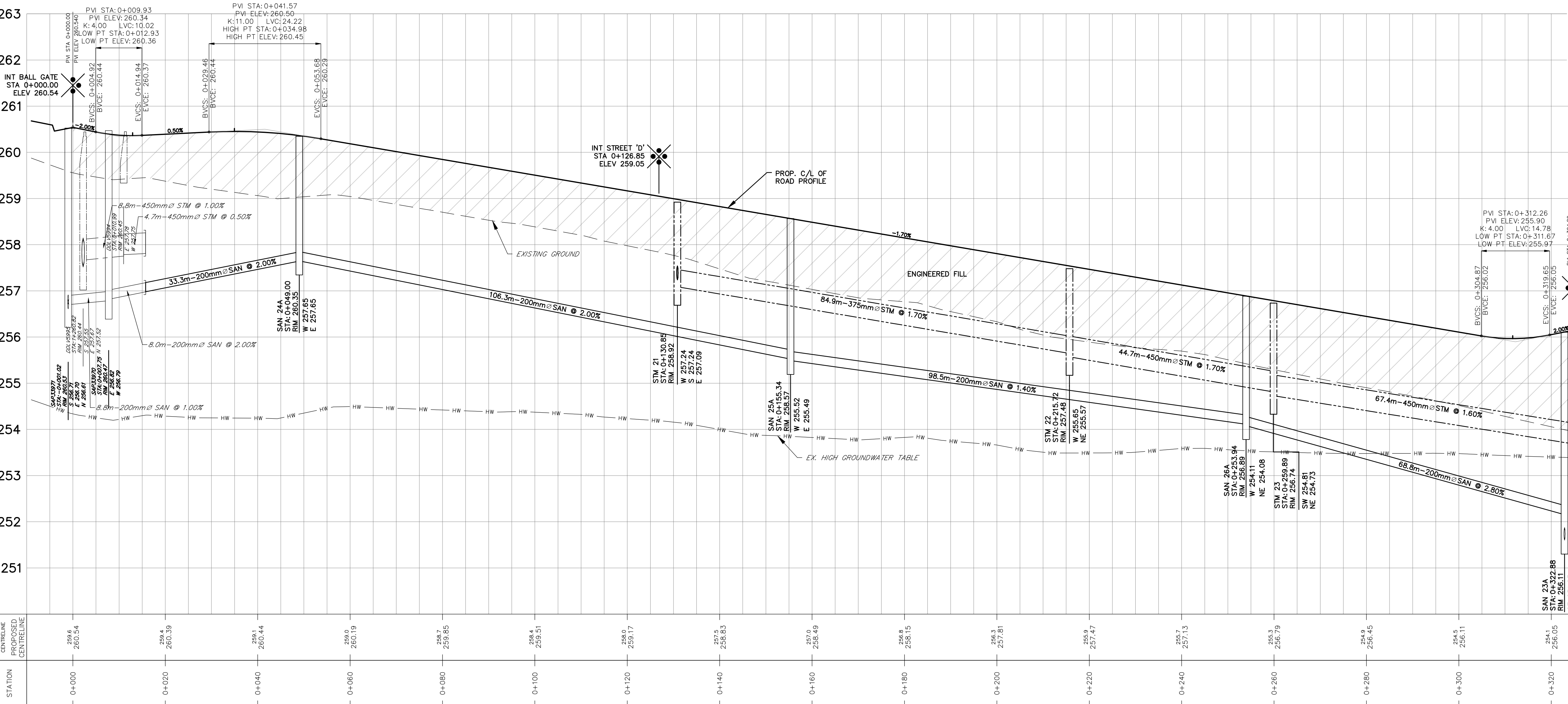
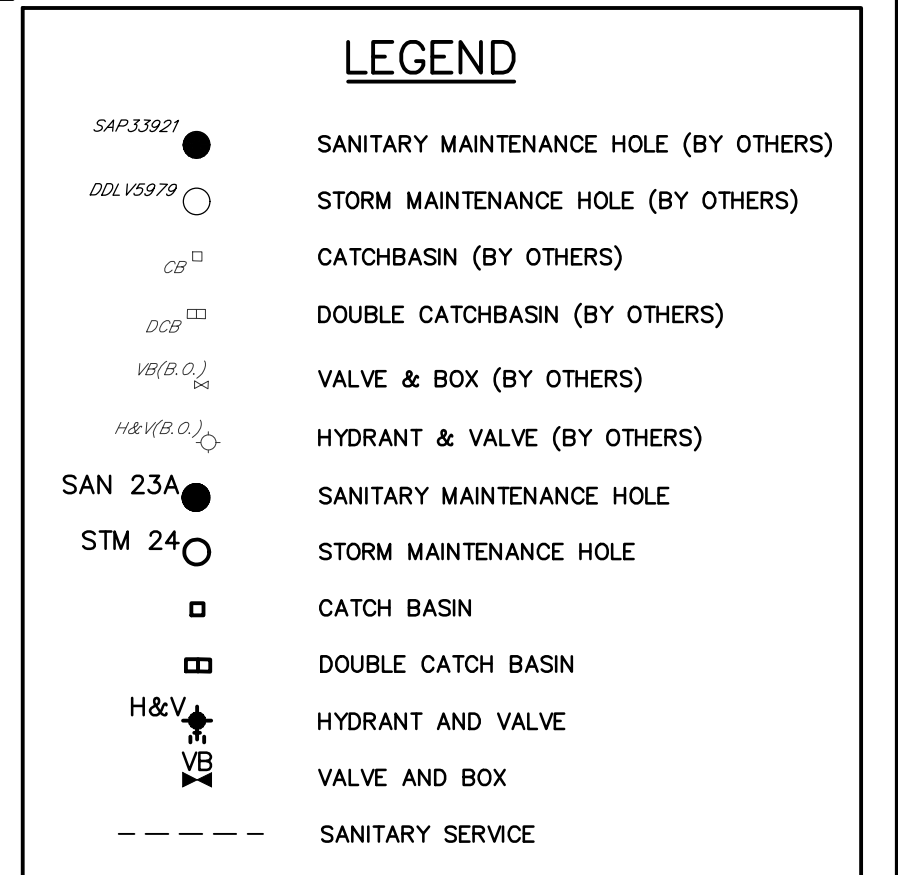
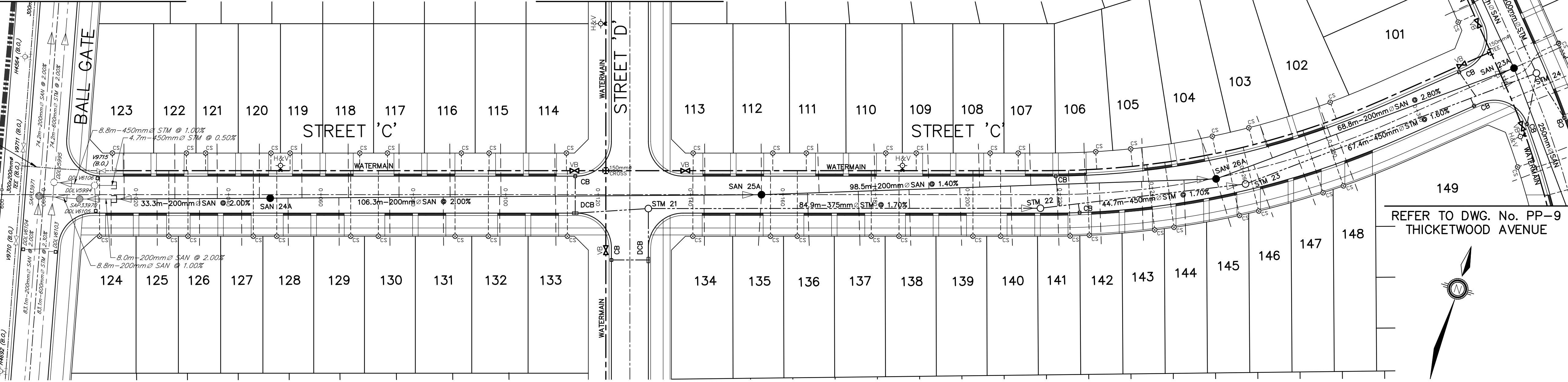
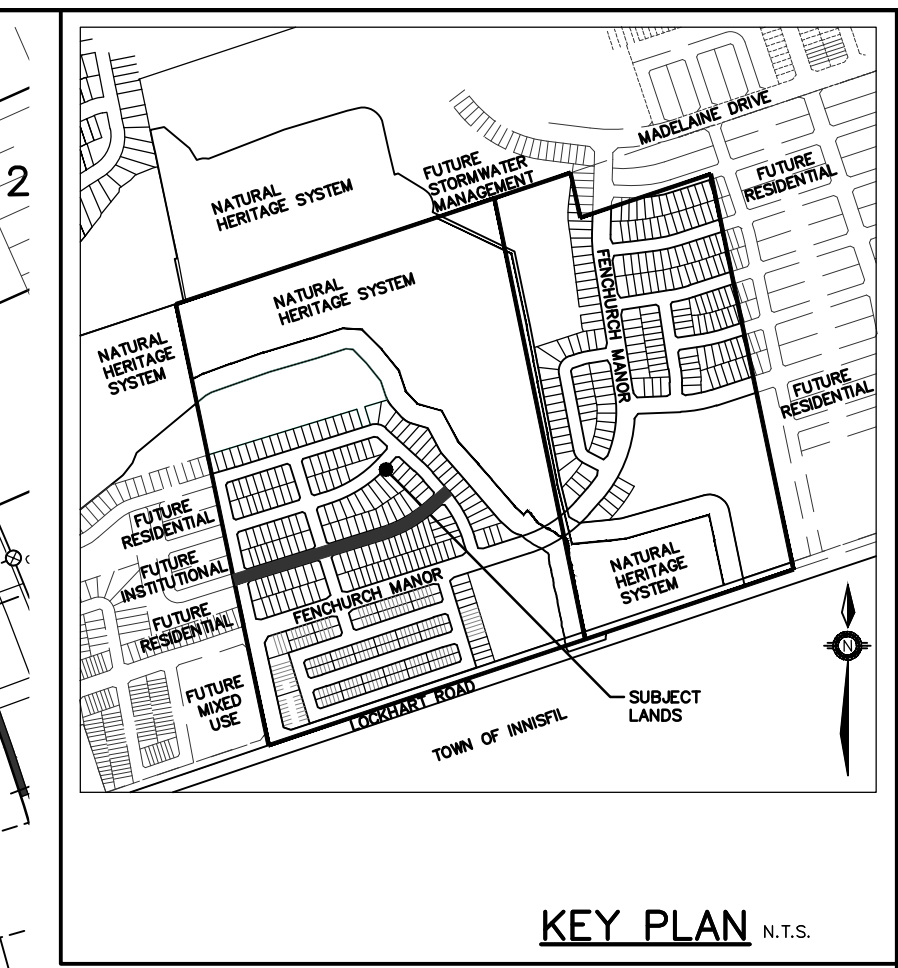
- SAP/33821 SANITARY MAINTENANCE HOLE (BY OTHERS)
- DOU/5979 STORM MAINTENANCE HOLE (BY OTHERS)
- CB CATCHBASIN (BY OTHERS)
- DCB DOUBLE CATCHBASIN (BY OTHERS)
- VB/BO VALVE & BOX (BY OTHERS)
- H&V/BO HYDRANT & VALVE (BY OTHERS)
- SAN 23A SANITARY MAINTENANCE HOLE
- STM 24 STORM MAINTENANCE HOLE
- CB CATCH BASIN
- DCB DOUBLE CATCH BASIN
- H&V HYDRANT AND VALVE
- VB VALVE AND BOX
- SANITARY SERVICE

C:\TUG\Eng_3D\GOL-20538-20538-1.dwg, Layout: PP-1, Plotted: Oct 04, 2021 @ 4:35pm by Jhermann The Jones Consulting Group Ltd.

REFER TO DWG. No. PP21
BALL GATE (SORBARA)

REFER TO DWG. No. PP-3
STREET 'D'

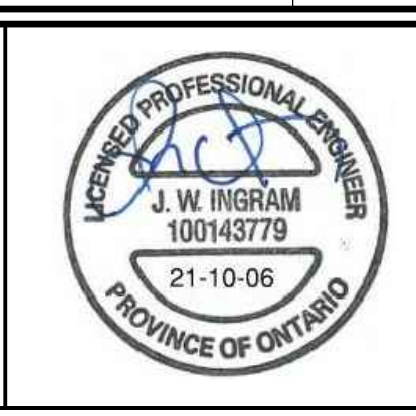
REFER TO DWG. No. PP-9
THICKETWOOD AVENUE



STATION	EXISTING GROUND CENTRELINE	PROPOSED CENTRELINE
0+000	260.54	260.54
0+020	260.39	260.39
0+040	260.44	260.44
0+060	260.19	260.19
0+080	259.85	259.85
0+100	259.51	259.51
0+120	259.17	259.17
0+140	258.83	258.83
0+160	258.49	258.49
0+180	258.15	258.15
0+200	257.81	257.81
0+220	257.47	257.47
0+240	257.13	257.13
0+260	256.79	256.79
0+280	256.45	256.45
0+300	256.11	256.11
0+320	255.77	255.77
0+340	255.43	255.43

BENCHMARK:
 BENCHMARK NO. 00193104605 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 9.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV 263.480
 BENCHMARK NO. 01019885454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOWERS CREEK, 0.35km EAST OF HURONIA ROAD. TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 29cm WEST OF THE NORTH-EAST END OF BRIDGE, 19cm BELOW TOP OF COPING. ELEV. 241.862
 BENCHMARK NO. 01019880407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N.4910727.688 E.607083.931
 BENCHMARK NO. 01019880404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 300m WEST OF YONGE STREET. N.491198297 E.605513.319

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI



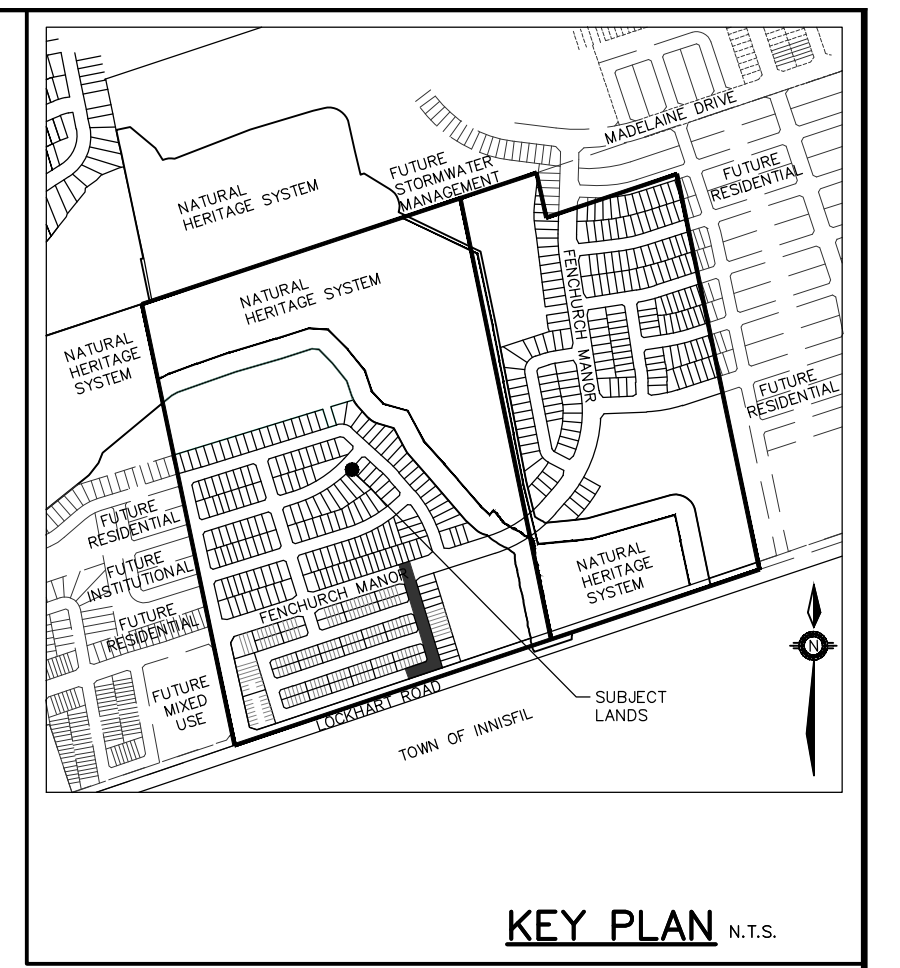
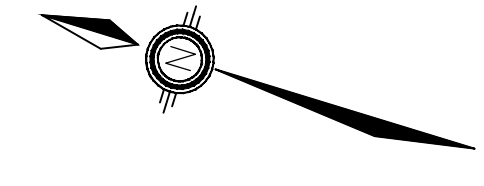
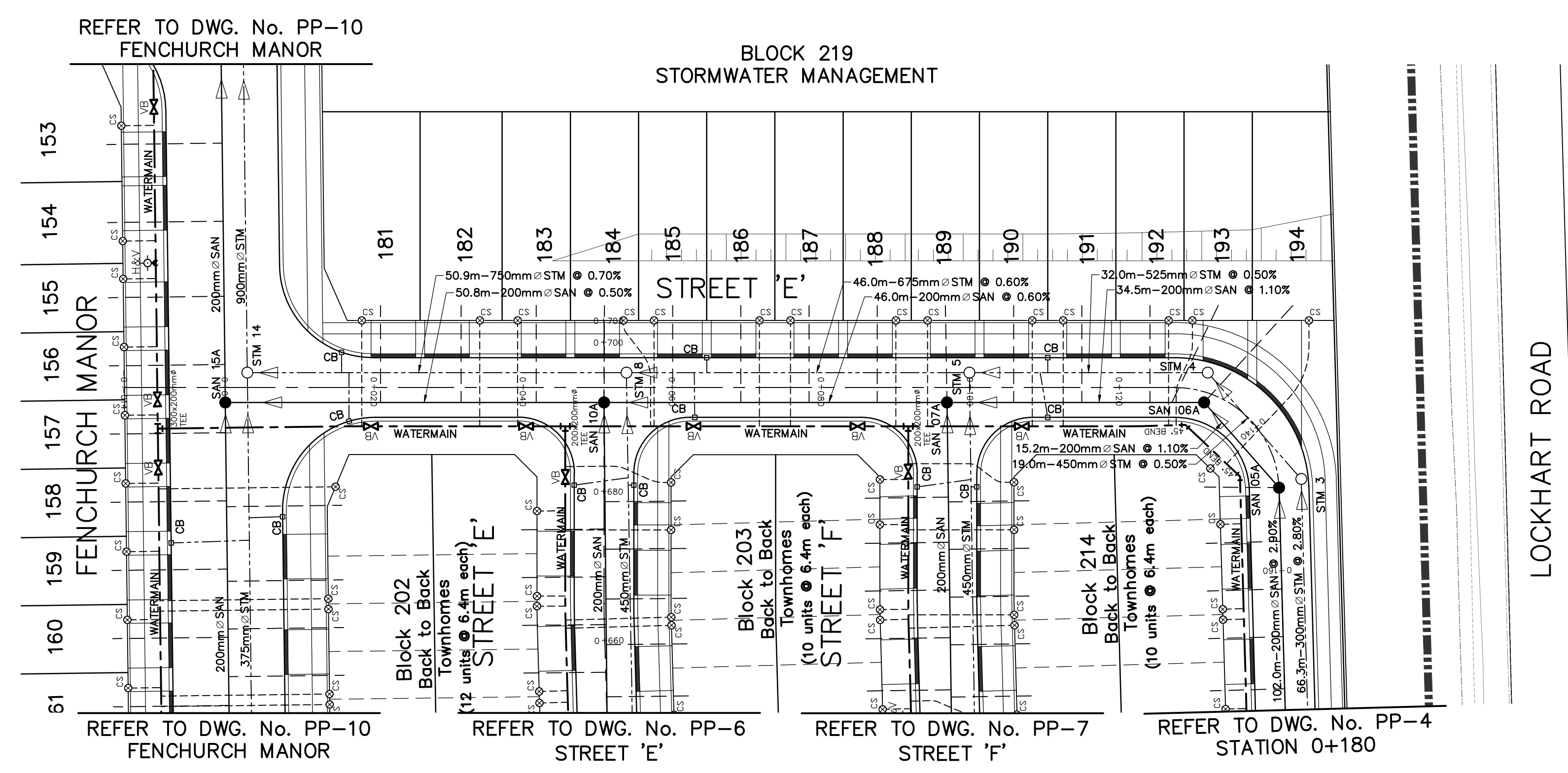
LOCKHART INNISFIL INVESTMENTS (II) LIMITED
 SUBDIVISION
 PLAN AND PROFILE
 STREET 'C'
 0-009 TO 0+334

JONES CONSULTING GROUP LTD.
 PLANNERS & ENGINEERS
 229 Mapleview Dr. E. Unit 1
 Scarboro, ON M1S 0W5
 P. 706.734.2638
 F. 705.734.1058

DESIGN	KS/JWI	SCALE:	H=1:500 V=1:50	DATE	JUNE 2021
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CHECKED	JWI				

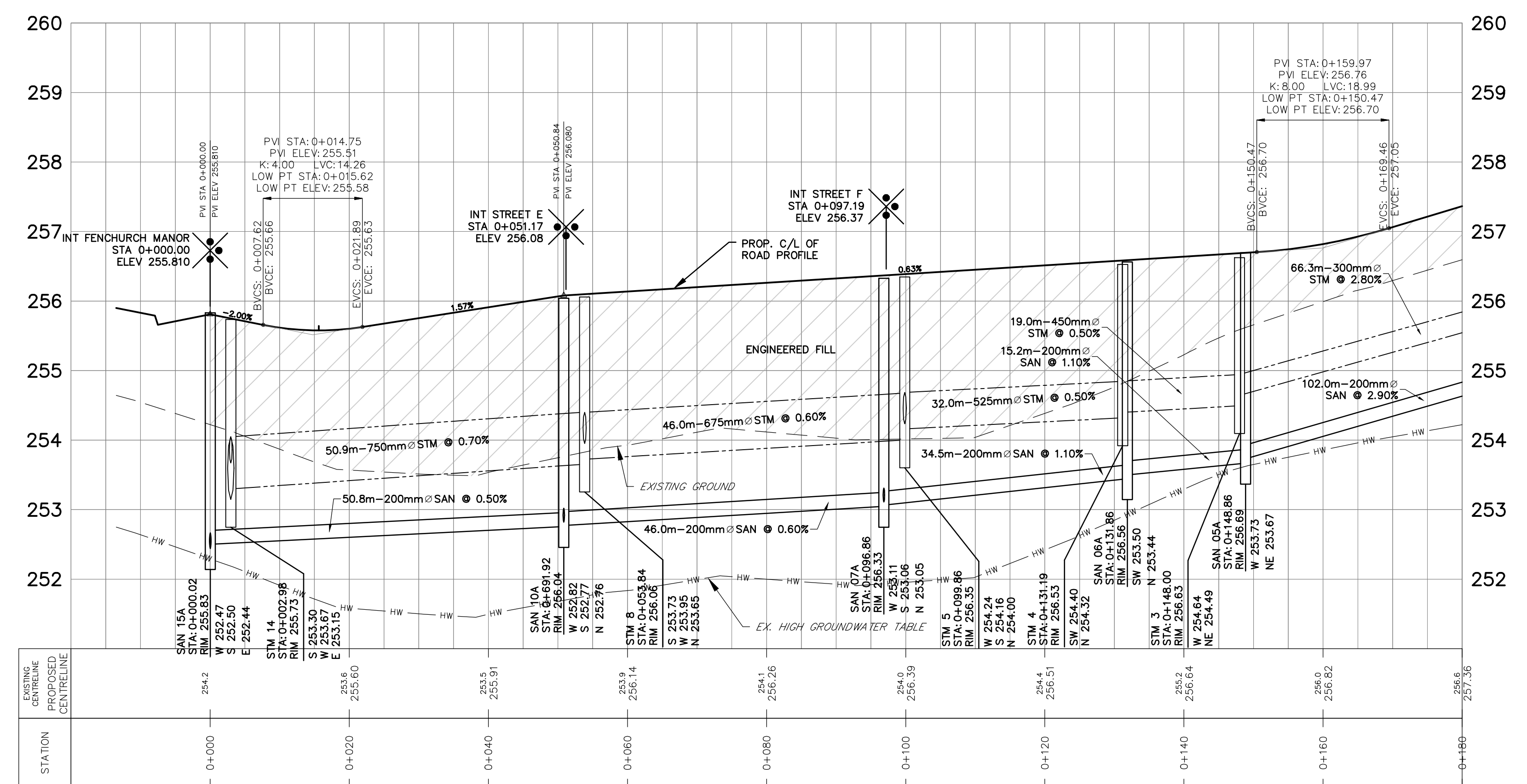
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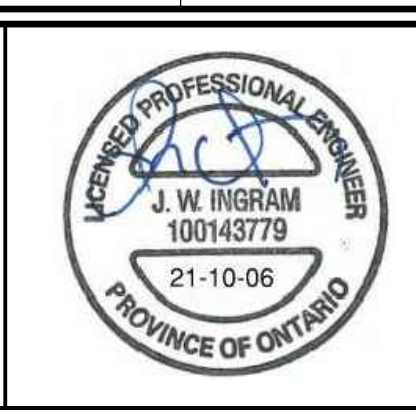
LEGEND

SAP.33821	●	SANITARY MAINTENANCE HOLE (BY OTHERS)
200.19579	○	STORM MAINTENANCE HOLE (BY OTHERS)
CB	□	CATCHBASIN (BY OTHERS)
DCB	□	DOUBLE CATCHBASIN (BY OTHERS)
VB(B.O.)	□	VALVE & BOX (BY OTHERS)
H&V(B.O.)	□	HYDRANT & VALVE (BY OTHERS)
SAN 23A	●	SANITARY MAINTENANCE HOLE
STM 24	○	STORM MAINTENANCE HOLE
	□	CATCH BASIN
	□	DOUBLE CATCH BASIN
	□	HYDRANT AND VALVE
	□	VALVE AND BOX
	---	SANITARY SERVICE



BENCHMARK:
 BENCHMARK NO. 0019314605 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 9.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK, ELEV 263.480
 BENCHMARK NO. 0101988544 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOWERS CREEK, 0.55m EAST OF HURONIA ROAD, TABLE SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 28cm WEST OF THE NORTH-EAST END OF BRIDGE, 19cm BELOW TOP OF COPING, ELEV. 241.862
 BENCHMARK NO. 0101988607 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD, N.4910727.688 E.607083.931
 BENCHMARK NO. 0101988604 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 300m WEST OF YONGE STREET, N.491189297 E.608513.316

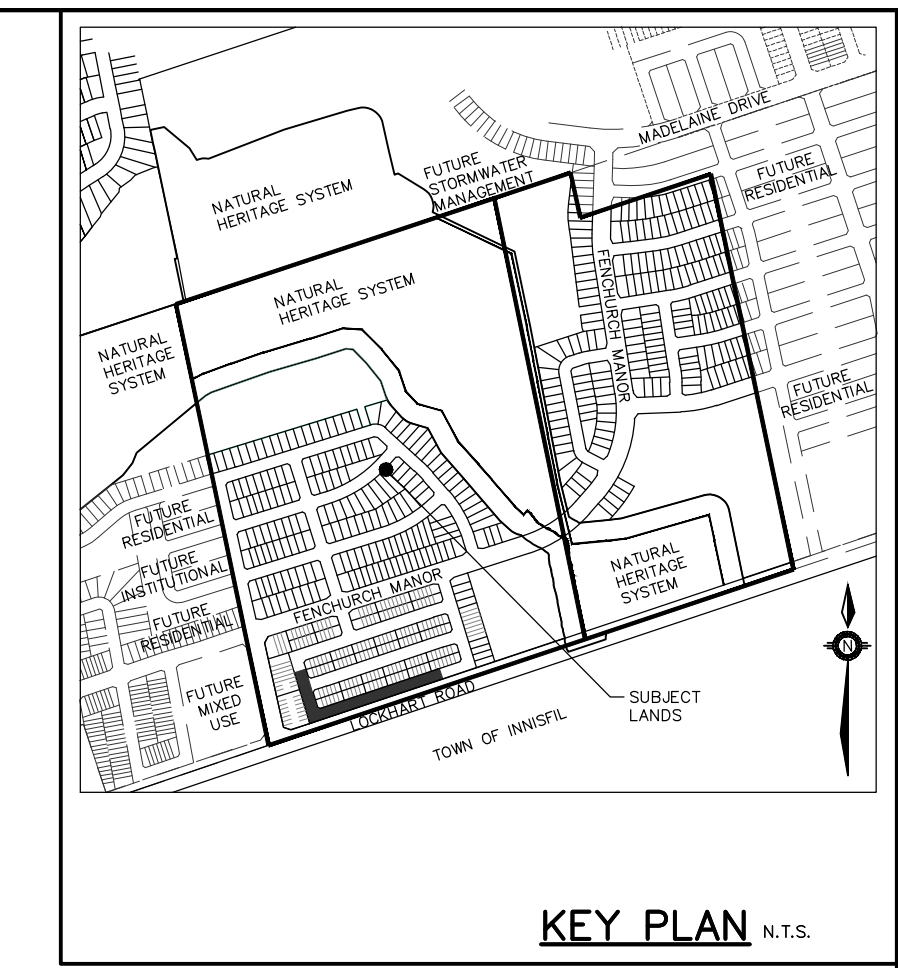
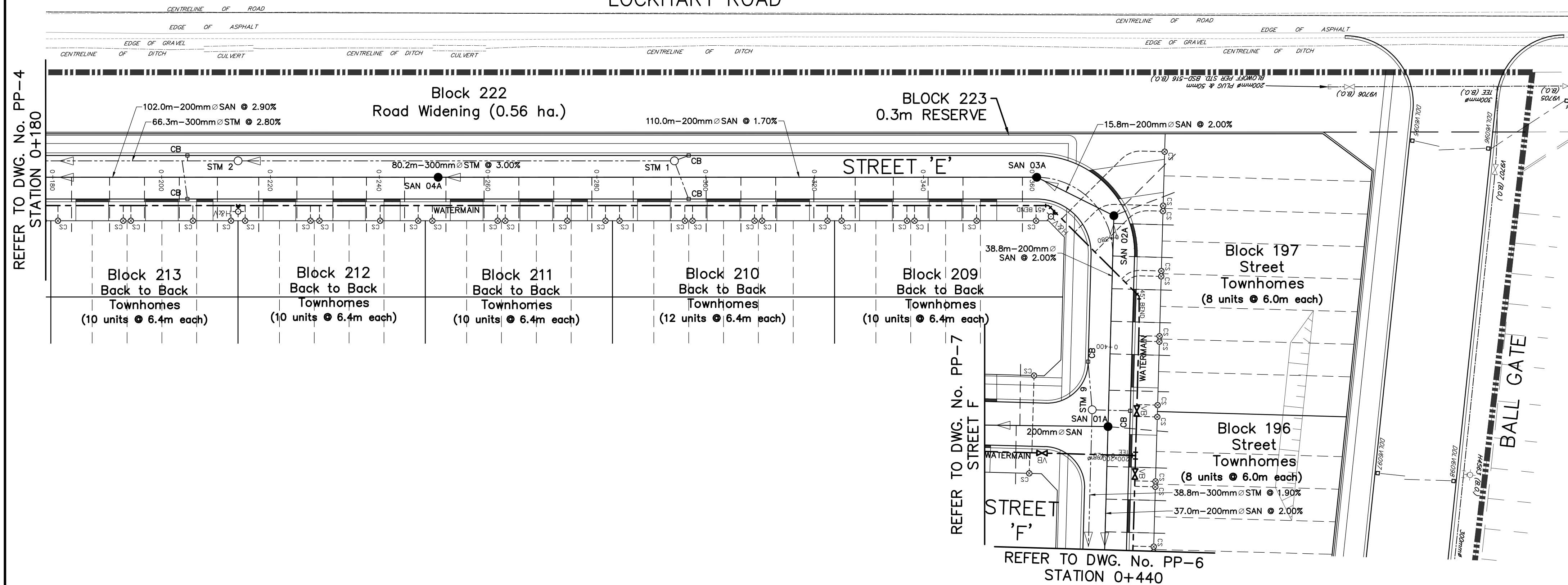
NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI



LOCKHART INNISFIL INVESTMENTS (II) LIMITED
 SUBDIVISION
 PLAN AND PROFILE
 STREET 'E'
 0-014 TO 0+180

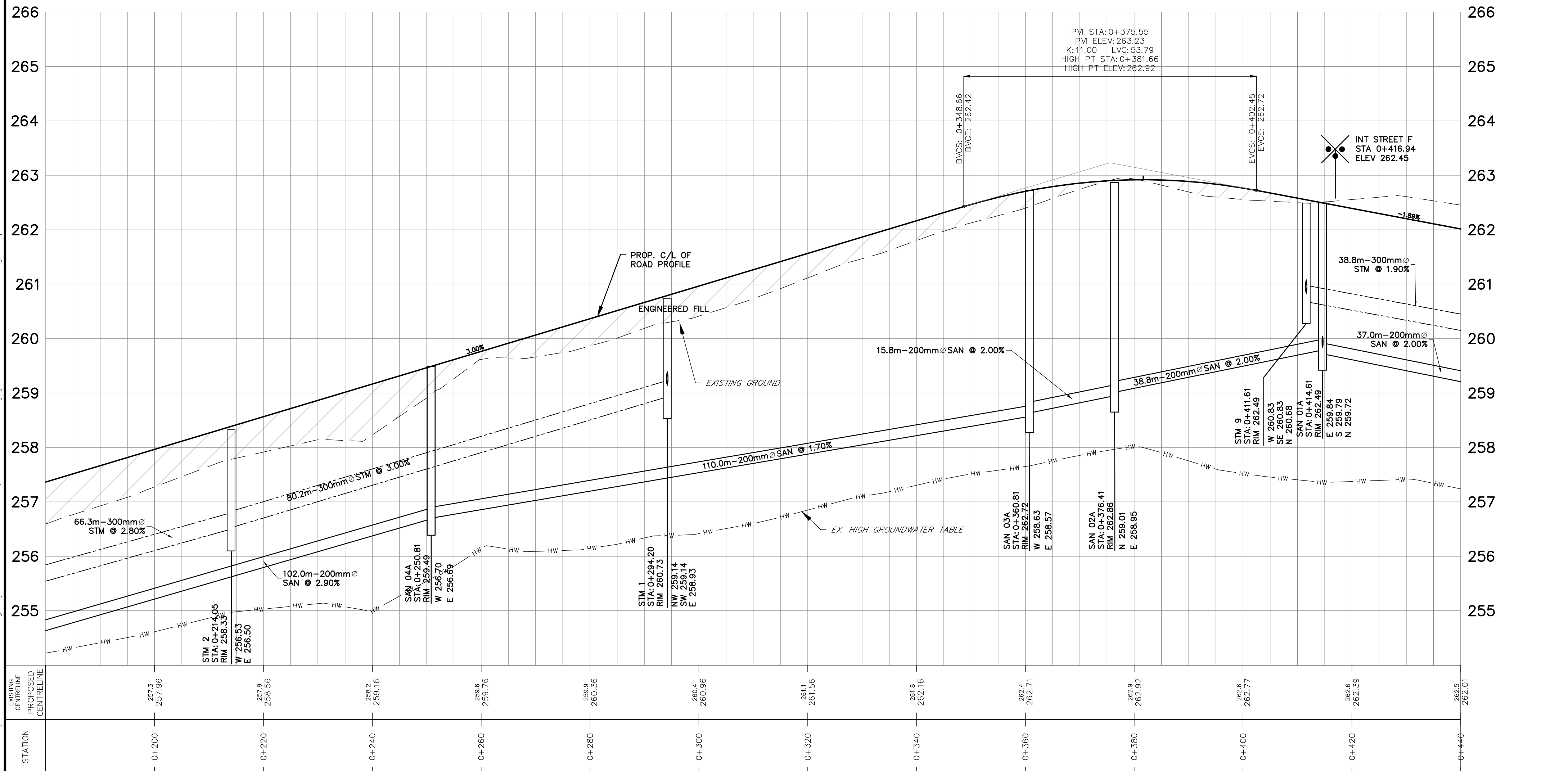
		229 Mapleview Dr. E. Unit 1 Barrie, ON L4N 0W5 P. 705.734.2538 F. 705.734.1058	
		DESIGN KS/JWI	SCALE: H=1:500 V=1:50
DRAWN KS	PROJECT	DWG. NO	
CHECKED JWI	GOL-20538	PP-4	

LOCKHART ROAD



LEGEND

- SAP.33827 ● SANITARY MAINTENANCE HOLE (BY OTHERS)
- DOU.V5979 ○ STORM MAINTENANCE HOLE (BY OTHERS)
- CB □ CATCHBASIN (BY OTHERS)
- DCB □ DOUBLE CATCHBASIN (BY OTHERS)
- VB(B) □ VALVE & BOX (BY OTHERS)
- H&V(B) □ HYDRANT & VALVE (BY OTHERS)
- SAN 23A ● SANITARY MAINTENANCE HOLE
- STM 24 ○ STORM MAINTENANCE HOLE
- CATCH BASIN
- DOUBLE CATCH BASIN
- H&V □ HYDRANT AND VALVE
- VB □ VALVE AND BOX
- SANITARY SERVICE



BENCHMARK:
 BENCHMARK NO. 0019314605 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 9.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK, ELEV 263.480
 BENCHMARK NO. 01019885454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOWERS CREEK, 0.55km EAST OF HURONIA ROAD, TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 28cm WEST OF THE NORTH-EAST END OF BRIDGE, 19cm BELOW TOP OF COPING.
 BENCHMARK NO. 01019886407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N.4910727.688 E.607083.931
 BENCHMARK NO. 01019886404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 300m WEST OF YONGE STREET. N.491189297 E.606513.319

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI

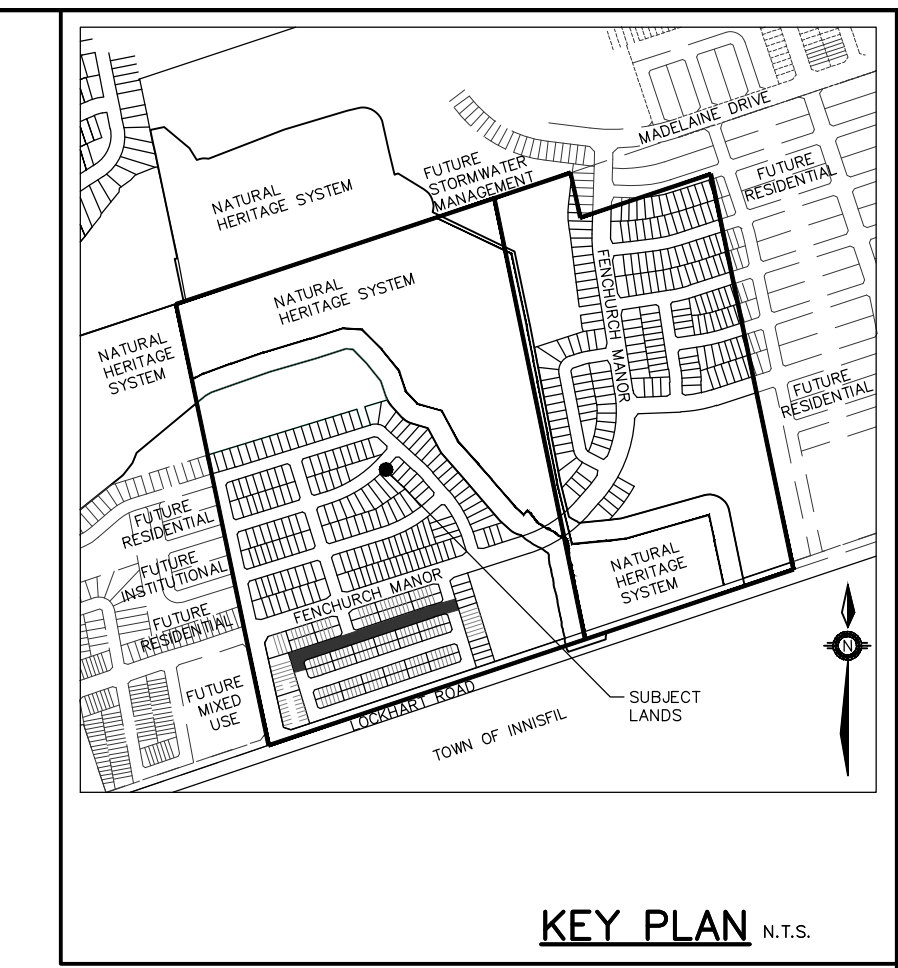
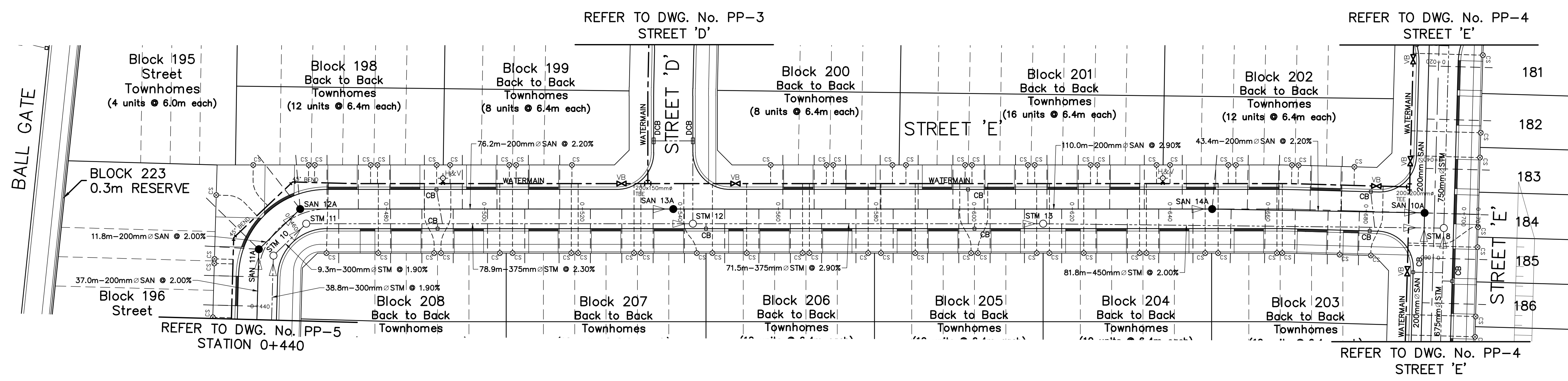


LOCKHART INNISFIL INVESTMENTS (II) LIMITED
 SUBDIVISION
 PLAN AND PROFILE
 STREET 'E'
 0+180 TO 0+440

JONES CONSULTING GROUP LTD.
 PLANNERS & ENGINEERS
 229 Mapleview Dr. E. Unit 1
 Barrie, ON L4N 0W5
 P. 705.734.2538
 F. 705.734.1058

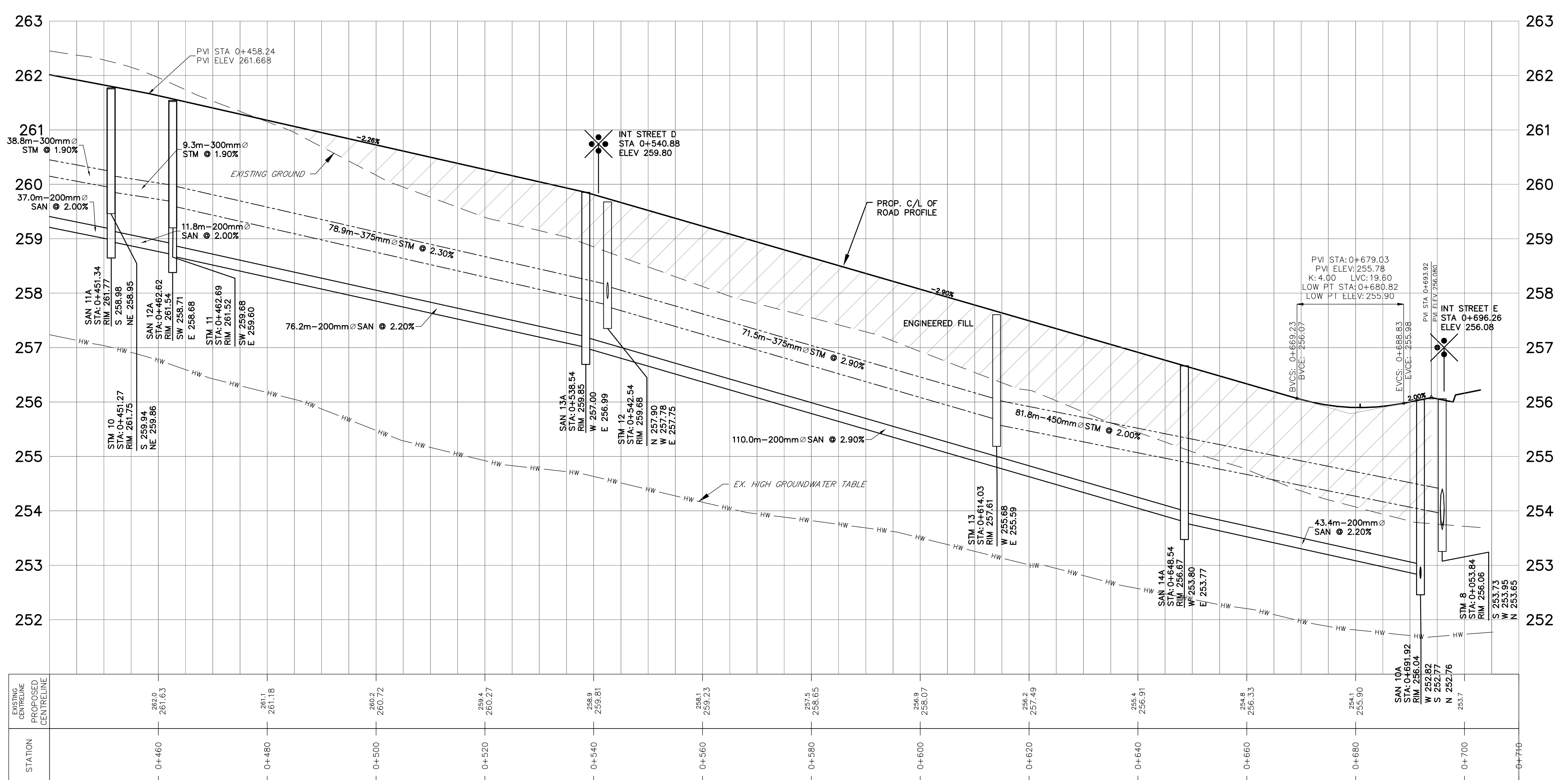
DESIGN KS/JWI SCALE: H=1:500 V=1:50 DATE JUNE 2021
 DRAWN KS PROJECT DWG. NO
 CHECKED JWI GOL-20538 PP-5

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LEGEND

- SAP/33821 SANITARY MAINTENANCE HOLE (BY OTHERS)
- 200/19579 STORM MAINTENANCE HOLE (BY OTHERS)
- CB CATCHBASIN (BY OTHERS)
- DCB DOUBLE CATCHBASIN (BY OTHERS)
- VB/BO VALVE & BOX (BY OTHERS)
- H&V/H&V/BO HYDRANT & VALVE (BY OTHERS)
- SAN 23A SANITARY MAINTENANCE HOLE
- STM 24 STORM MAINTENANCE HOLE
- CB CATCH BASIN
- DCB DOUBLE CATCH BASIN
- H&V HYDRANT AND VALVE
- VB VALVE AND BOX
- SANITARY SERVICE



BENCHMARK:

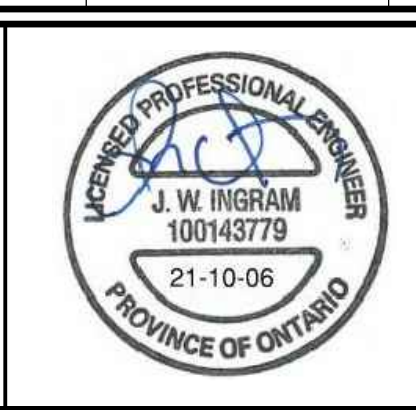
BENCHMARK NO. 0019314605 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET. TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 9.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV 263.480

BENCHMARK NO. 0101988544 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOWERS CREEK, 0.55km EAST OF HURONIA ROAD. TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 28cm WEST OF THE NORTH-EAST END OF BRIDGE, 19cm BELOW TOP OF COPING. ELEV. 241.862

BENCHMARK NO. 0101988607 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N. 4910727.688 E. 607083.931

BENCHMARK NO. 0101988604 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 300m WEST OF YONGE STREET. N. 4911189.897 E. 609533.319

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI



LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION

PLAN AND PROFILE STREET 'E' 0+440 TO 0+705

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS

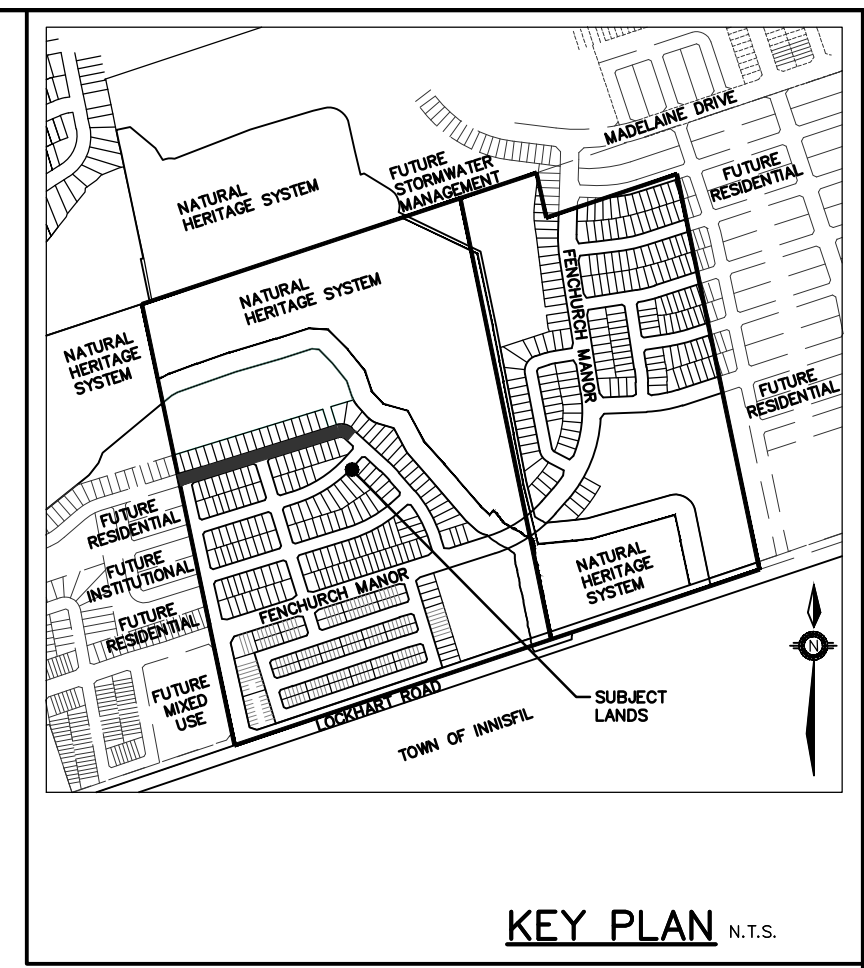
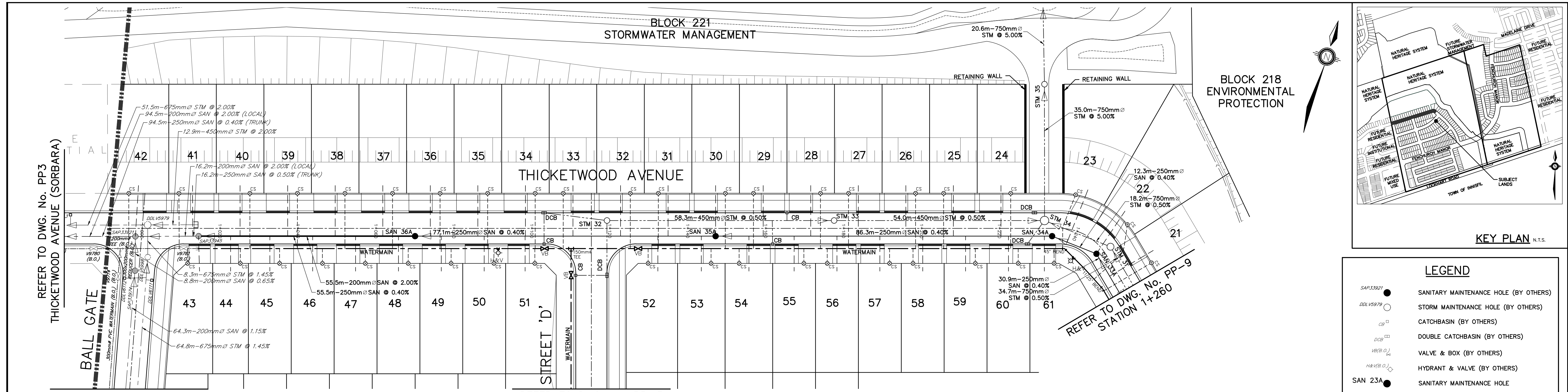
229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1058

DESIGN KS/JWI SCALE: H=1:500 V=1:50 DATE JUNE 2021

DRAWN KS PROJECT DWG. NO PP-6

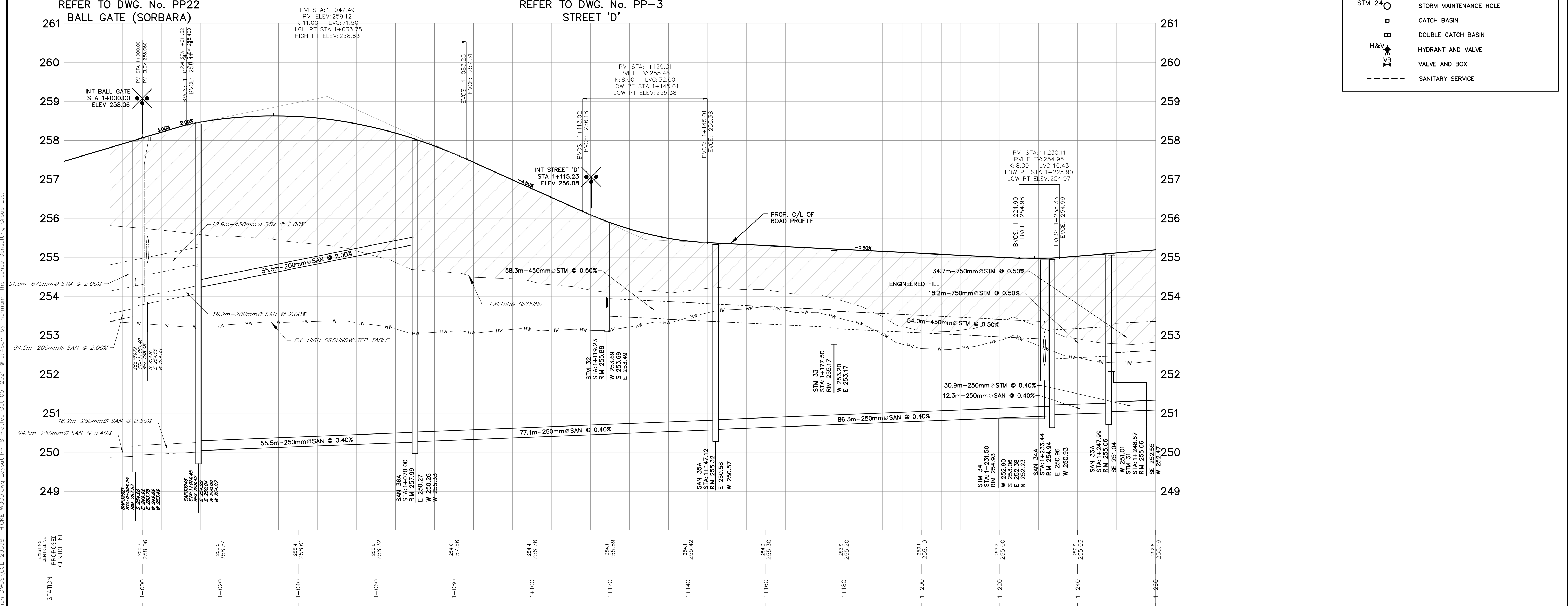
CHECKED JWI GOL-20538

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LEGEND

- SAN 330/21 SANITARY MAINTENANCE HOLE (BY OTHERS)
- 200V9979 STORM MAINTENANCE HOLE (BY OTHERS)
- CB CATCHBASIN (BY OTHERS)
- DCB DOUBLE CATCHBASIN (BY OTHERS)
- VB(B.O.) VALVE & BOX (BY OTHERS)
- H&V(B.O.) HYDRANT & VALVE (BY OTHERS)
- SAN 23A SANITARY MAINTENANCE HOLE
- STM 24 STORM MAINTENANCE HOLE
- CB CATCH BASIN
- DCB DOUBLE CATCH BASIN
- H&V HYDRANT AND VALVE
- VB VALVE AND BOX
- SANITARY SERVICE



<p>BENCHMARK:</p> <p>BENCHMARK NO. 00191314605 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 9.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK, ELEV 263.480</p> <p>BENCHMARK NO. 01019885454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOWERS CREEK, 0.55m EAST OF HURONIA ROAD, TABLE SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 28cm WEST OF THE NORTH-EAST END OF BRIDGE, 19cm BELOW TOP OF COPING, ELEV. 241.862</p> <p>BENCHMARK NO. 01019886407 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD, N.4910727.688 E.607083.931</p> <p>BENCHMARK NO. 01019886404 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 300m WEST OF YONGE STREET, N.491189.897 E.606513.316</p>		<p>1. SUBMISSION FOR DRAFT PLAN APPROVAL</p>	<p>OCT 2021</p>	<p>JWI</p>
NO.	REVISIONS	DATE	INITIAL	



LOCKHART INNISFIL INVESTMENTS (II) LIMITED SUBDIVISION

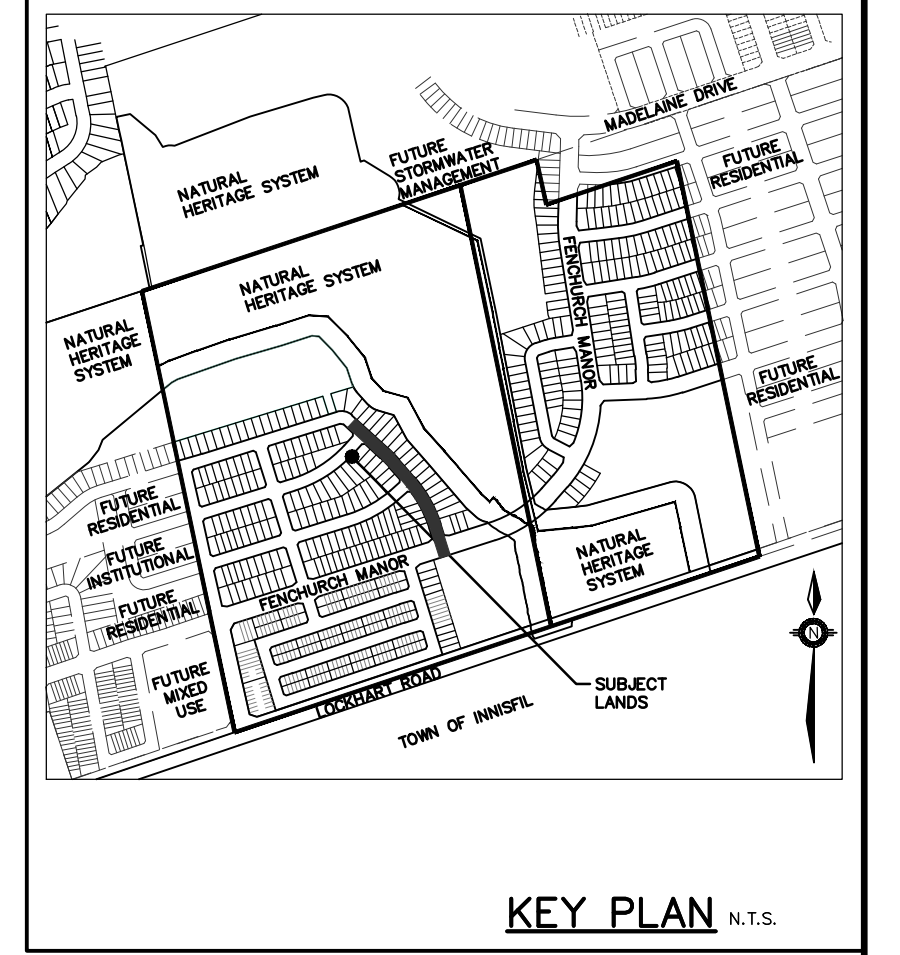
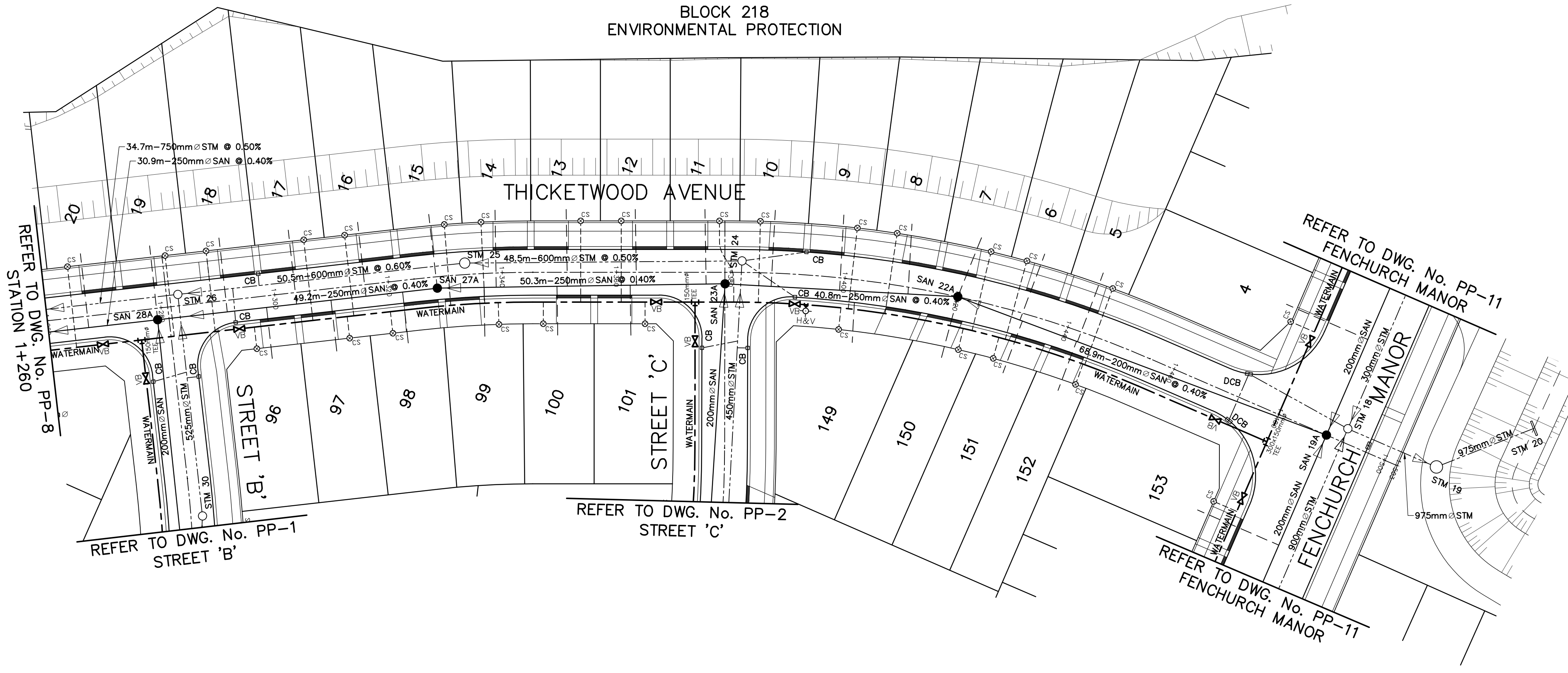
PLAN AND PROFILE THICKETWOOD AVENUE 0+980 TO 1+260



DESIGN	KS/JWI	SCALE: H=1:500 V=1:50	DATE	JUNE 2021
DRAWN	KS	PROJECT	DWG. NO	
CHECKED	JWI	GOL-20538	PP-8	

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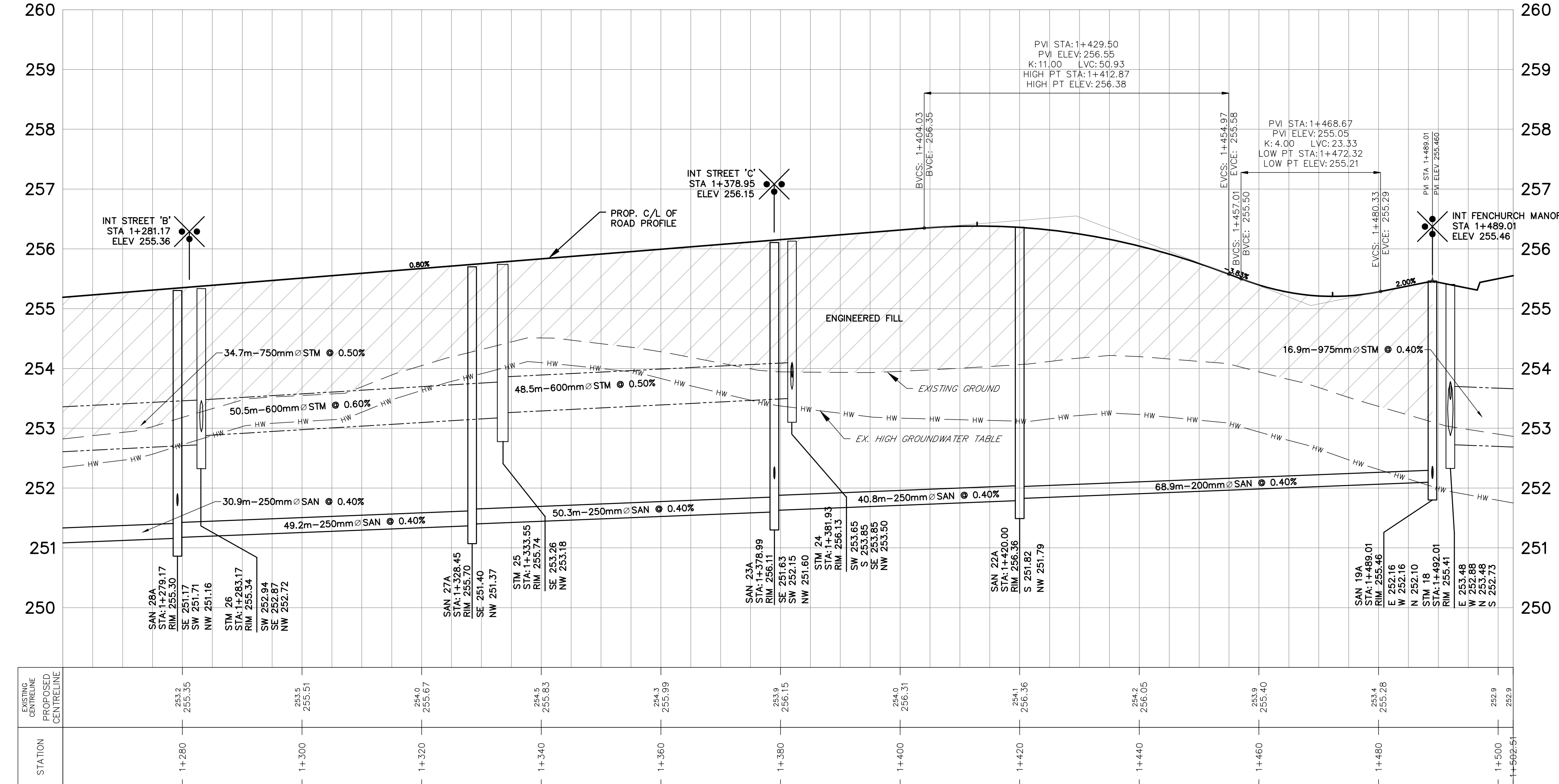
BLOCK 218
ENVIRONMENTAL PROTECTION



LEGEND

- SAP33821 ● SANITARY MAINTENANCE HOLE (BY OTHERS)
- 200x150 ● STORM MAINTENANCE HOLE (BY OTHERS)
- CB □ CATCHBASIN (BY OTHERS)
- DCB □ DOUBLE CATCHBASIN (BY OTHERS)
- VB/BO □ VALVE & BOX (BY OTHERS)
- H&V □ HYDRANT & VALVE (BY OTHERS)
- SAN 23A ● SANITARY MAINTENANCE HOLE
- STM 24 ○ STORM MAINTENANCE HOLE
- CATCH BASIN
- DOUBLE CATCH BASIN
- H&V ● HYDRANT AND VALVE
- VB ● VALVE AND BOX
- - - SANITARY SERVICE

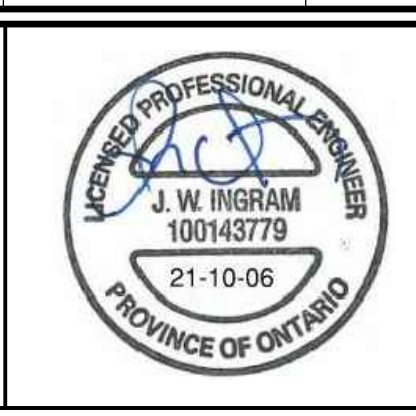
BLOCK 219
STORMWATER
MANAGEMENT



STATION	EXISTING CENTRELINE PROPOSED CENTRELINE
1+280	253.2, 255.35
1+300	255.51, 255.51
1+320	254.0, 255.67
1+340	254.5, 255.83
1+360	254.8, 255.99
1+380	253.9, 256.15
1+400	254.0, 256.31
1+420	254.1, 256.36
1+440	254.2, 256.05
1+460	253.9, 255.40
1+480	253.4, 255.28
1+500	253.9, 255.9

BENCHMARK:
BENCHMARK NO. 00193104605 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 9.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK, ELEV 263.480
BENCHMARK NO. 01019885454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOWERS CREEK, 0.55m EAST OF HURONIA ROAD, TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 25cm WEST OF THE NORTH-EAST END OF BRIDGE, 19cm BELOW TOP OF COPING, ELEV. 241.862
BENCHMARK NO. 01019886047 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD, N.4910727.688 E.607083.931
BENCHMARK NO. 01019886044 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 300m WEST OF YONGE STREET, N.4911189.897 E.606513.316

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI

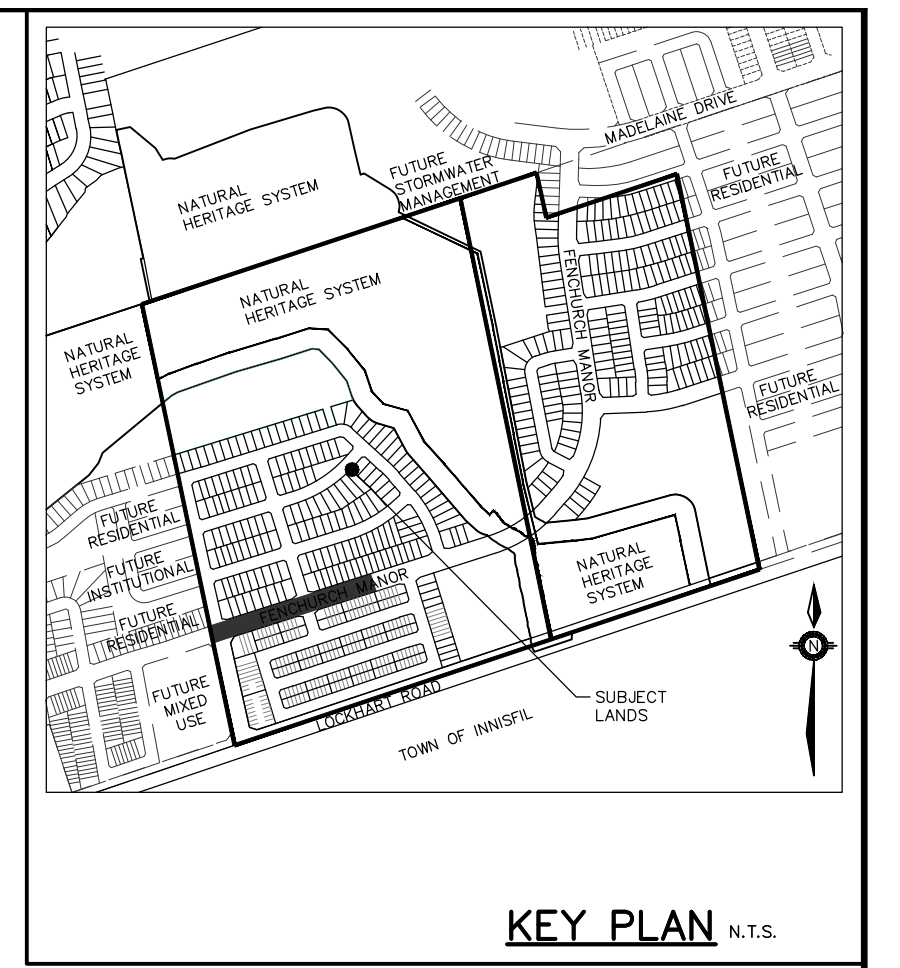
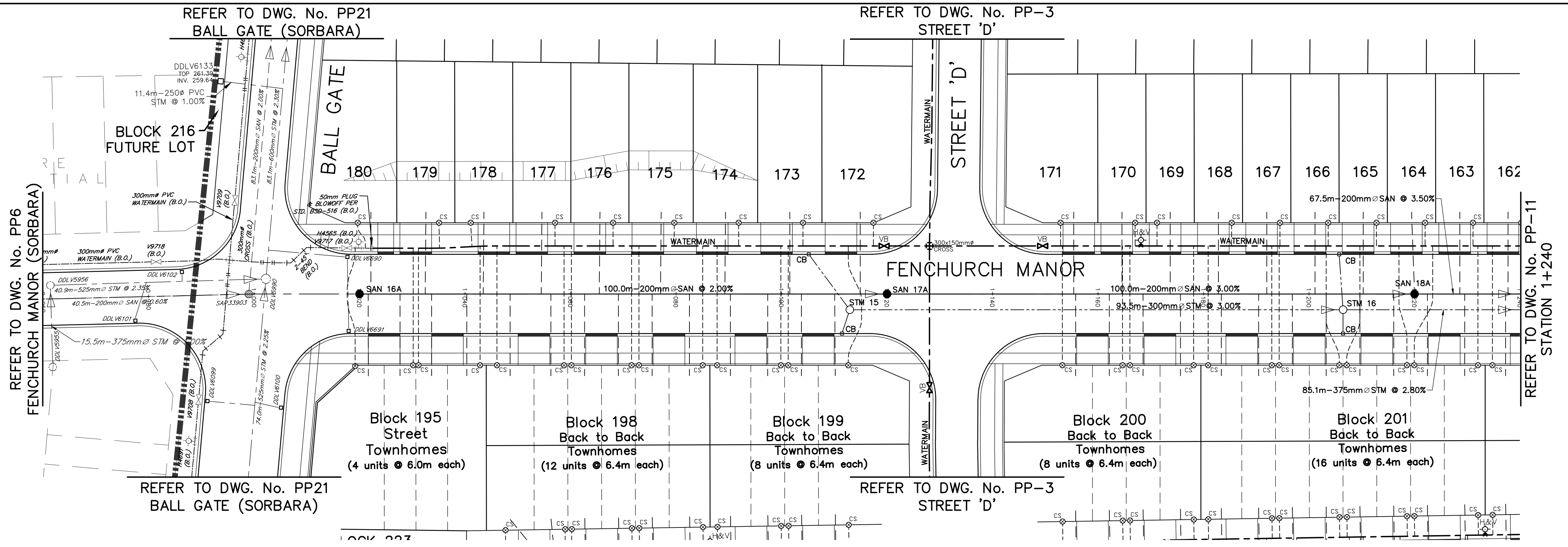


LOCKHART INNISFIL
INVESTMENTS (II) LIMITED
SUBDIVISION
PLAN AND PROFILE
THICKETWOOD AVENUE
1+260 TO 1+503

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Mapleview Dr. E. Unit 1
Scarborough, ON M1S 4W5
P. 706.734.2638
F. 705.734.1056

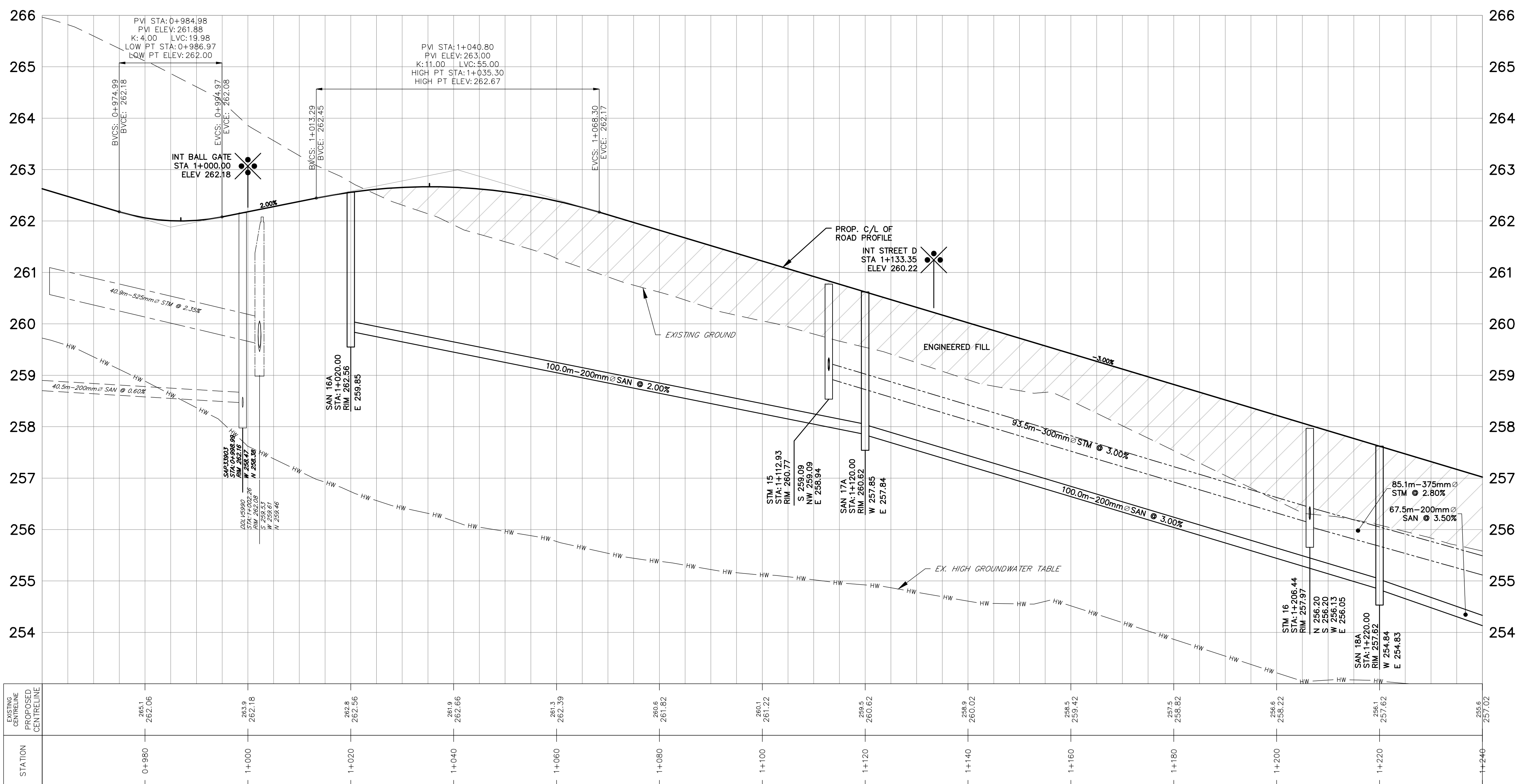
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DRAWN	KS	PROJECT	DWG. NO	
CHECKED	JWI	GOL-20538	PP-9	

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LEGEND

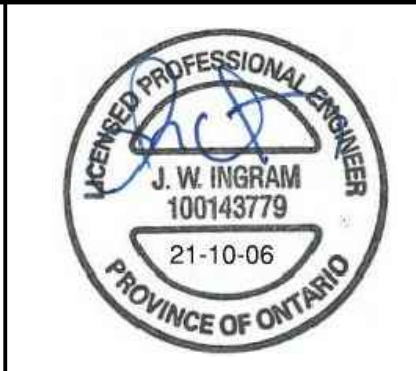
- SAP.ESB021 SANITARY MAINTENANCE HOLE (BY OTHERS)
- DDL.V5979 STORM MAINTENANCE HOLE (BY OTHERS)
- CB CATCHBASIN (BY OTHERS)
- DCB DOUBLE CATCHBASIN (BY OTHERS)
- VB(B.O.) VALVE & BOX (BY OTHERS)
- H&V(B.O.) HYDRANT & VALVE (BY OTHERS)
- SAN 23A SANITARY MAINTENANCE HOLE
- STM 24 STORM MAINTENANCE HOLE
- CB CATCH BASIN
- DCB DOUBLE CATCH BASIN
- H&V HYDRANT AND VALVE
- VB VALVE AND BOX
- SANITARY SERVICE



STATION	EXISTING CENTRELINE PROPOSED CENTRELINE
0+980	261.06
1+000	262.18
1+020	262.56
1+040	262.66
1+060	262.39
1+080	261.82
1+100	261.22
1+120	260.62
1+140	260.02
1+160	259.42
1+180	258.82
1+200	258.22
1+220	257.62
1+240	257.02

BENCHMARK:
 BENCHMARK NO. 0019314605 SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLE SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2m WEST OF BELL POLE AND 9.2m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15cm BELOW BRICK. ELEV 263.480
 BENCHMARK NO. 01019885454 CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE EAST OVER LOWERS CREEK, 0.55m EAST OF HURONIA ROAD, TABLE IS SET HORIZONTALLY IN THE NORTH FACE, 5.45m NORTH OF CENTRELINE OF ROAD, 25cm WEST OF THE NORTH-EAST END OF BRIDGE, 19cm BELOW TOP OF COPING. ELEV. 241.862
 BENCHMARK NO. 01019886047 LOCATED ON THE NORTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m EAST OF HURONIA ROAD. N.4910727.688 E.607083.931
 BENCHMARK NO. 01019886044 LOCATED ON THE SOUTH SIDE OF MAPLEVIEW DRIVE APPROXIMATELY 500m WEST OF YONGE STREET. N.491189297 E.606533.319

NO.	REVISIONS	DATE	INITIAL
1.	SUBMISSION FOR DRAFT PLAN APPROVAL	OCT 2021	JWI



LOCKHART INNISFIL INVESTMENTS (II) LIMITED
 SUBDIVISION
 PLAN AND PROFILE
 FENCHURCH MANOR
 0+960 TO 1+240

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DESIGN	KS/JWI	SCALE:	H=1:500 V=1:50	DATE	JUNE 2021
DRAWN	KS	PROJECT	GOL-20538	DWG. NO	PP-10
CHECKED	JWI				

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