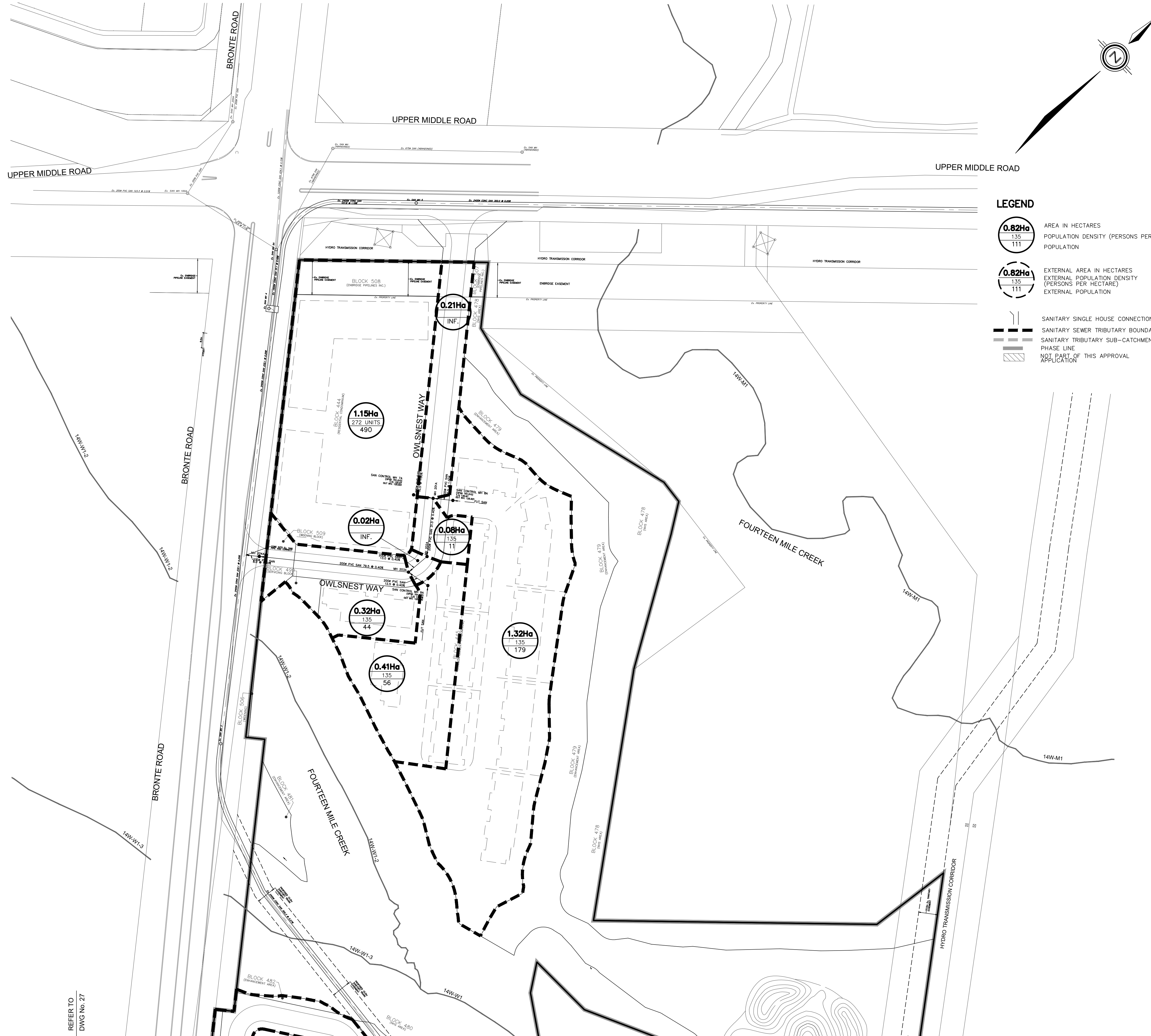


Appendix W

Bronte Green Subdivision - Detailed Design Drawings

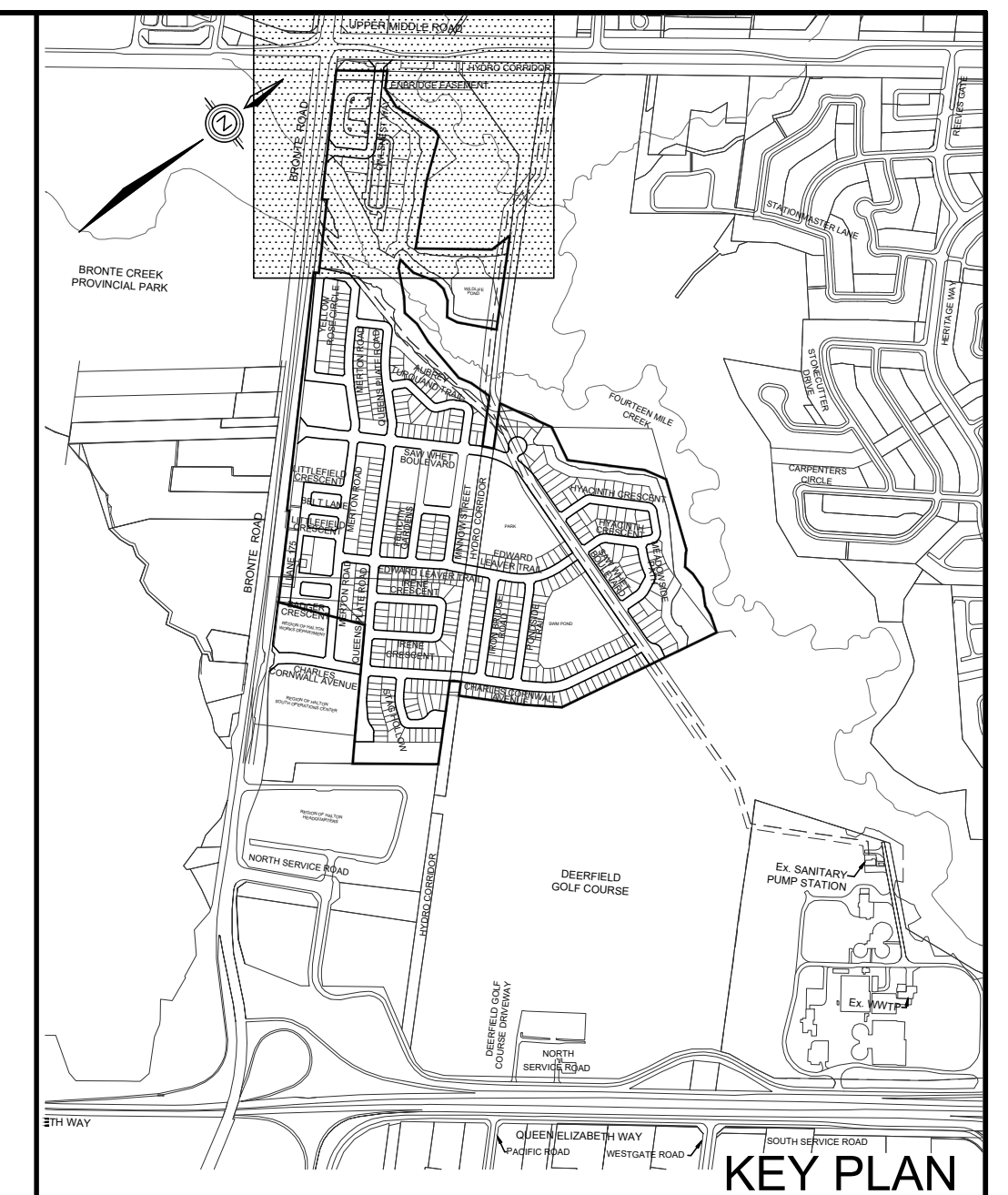
DSEL

June 2019



LEGEND

- AREA IN HECTARES
POPULATION DENSITY (PERSONS PER HECTARE)
POPULATION
- EXTERNAL AREA IN HECTARES
EXTERNAL POPULATION DENSITY (PERSONS PER HECTARE)
EXTERNAL POPULATION
- SANITARY SINGLE HOUSE CONNECTION
- SANITARY SEWER TRIBUTARY BOUNDARY
- SANITARY TRIBUTARY SUB-CATCHMENT BOUNDARY
- PHASE LINE
- NOT PART OF THIS APPROVAL APPLICATION



TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
 CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
 CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-09, SURVEY DATED AUGUST 09, 2017.
 PROJECT No. 12-30-371-11, SURVEY DATED JANUARY 2, 2018.
 PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	MOE SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	MOE SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	MOE SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:	W.L.		

SCALE	HORIZ. 1:1000	0 10 20 30 40	REFERENCES
-------	---------------	---------------	------------

APPROVALS		FIELD NOTES
MUNICIPAL APPROVAL		
APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS		BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
MANAGER OF DEVELOPMENT ENGINEERING _____ DATE _____		GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
		TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>



DSEL david schaeffer engineering ltd
 600 Alden Road, Suite 500
 Markham, Ontario, L3R 0E7
 Tel. (905) 475-3080
 Fax. (905) 475-3081
 www.DSEL.ca

MUNICIPALITY
OAKVILLE
 DEVELOPMENT ENGINEERING

REGION
Halton REGION
 The Regional Municipality of Halton

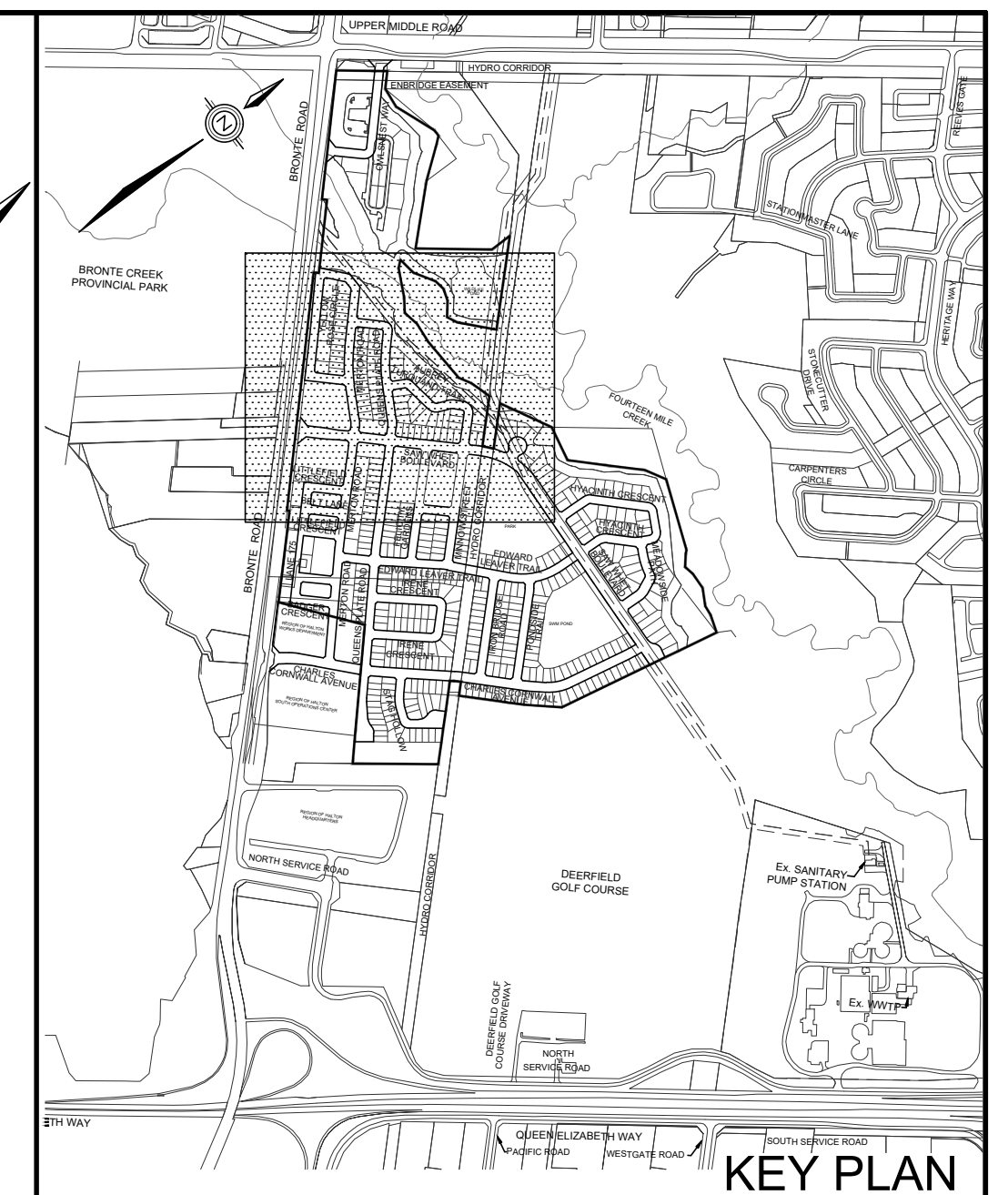
DEVELOPER
BRONTE GREEN CORPORATION

PROJECT
BRONTE GREEN SUBDIVISION
 24T-14004

TITLE
SANITARY DRAINAGE PLAN © DSEL

MUNICIPAL FILE NO.	SD-XXX.X	REGIONAL FILE NO.	DO-1040
PROJECT NO.	12-601	SHEET	26 OF 145

REFER TO
 DWG No. 27



TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-02-TOPG-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
 CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
 CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-09-RPLAN, SURVEY DATED SEPTEMBER 14, 2017.
 PROJECT No. 12-30-371-11, SURVEY DATED JANUARY 2, 2018.
 PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	M.O.E SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	M.O.E SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	M.O.E SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:			

SCALE	HORIZ.	1:1000	0	10	20	30	40	REFERENCES
-------	--------	--------	---	----	----	----	----	------------

APPROVALS		FIELD NOTES	
MUNICIPAL APPROVAL		BELL	<input type="checkbox"/> HYDRO <input type="checkbox"/>
APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS		GAS	<input type="checkbox"/> CABLE <input type="checkbox"/>
MANAGER OF DEVELOPMENT ENGINEERING	DATE	TRAFFIC	<input type="checkbox"/> WATER <input type="checkbox"/>



DSEL
 david schaeffer engineering ltd
 600 Alden Road, Suite 500
 Markham, Ontario, L3R 0E7
 Tel. (905) 475-3080
 Fax. (905) 475-3081
 www.DSEL.ca

OAKVILLE
 DEVELOPMENT ENGINEERING

Halton
 The Regional Municipality of Halton

DEVELOPER
BRONTE GREEN CORPORATION

PROJECT
BRONTE GREEN SUBDIVISION
 24T-14004

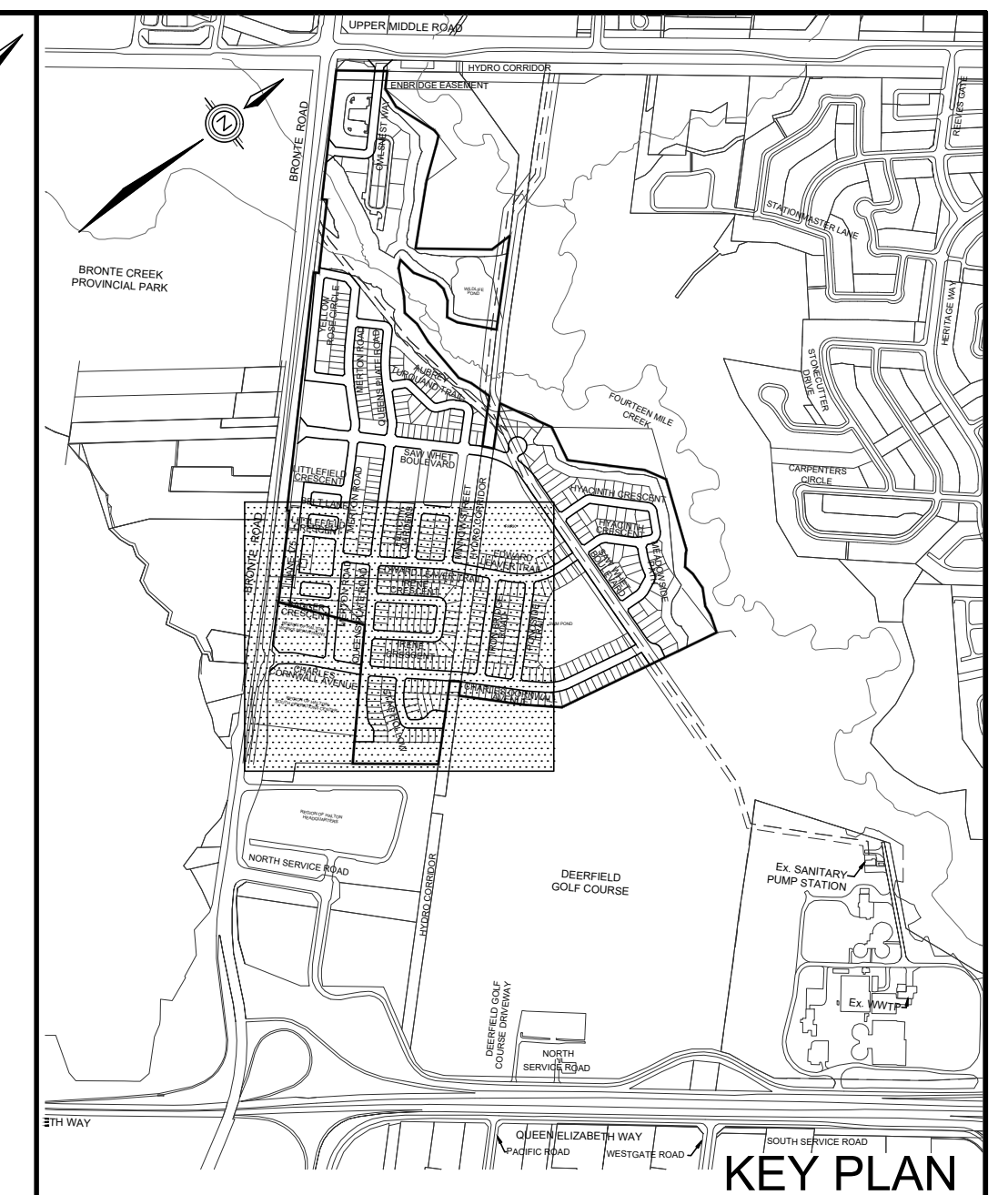
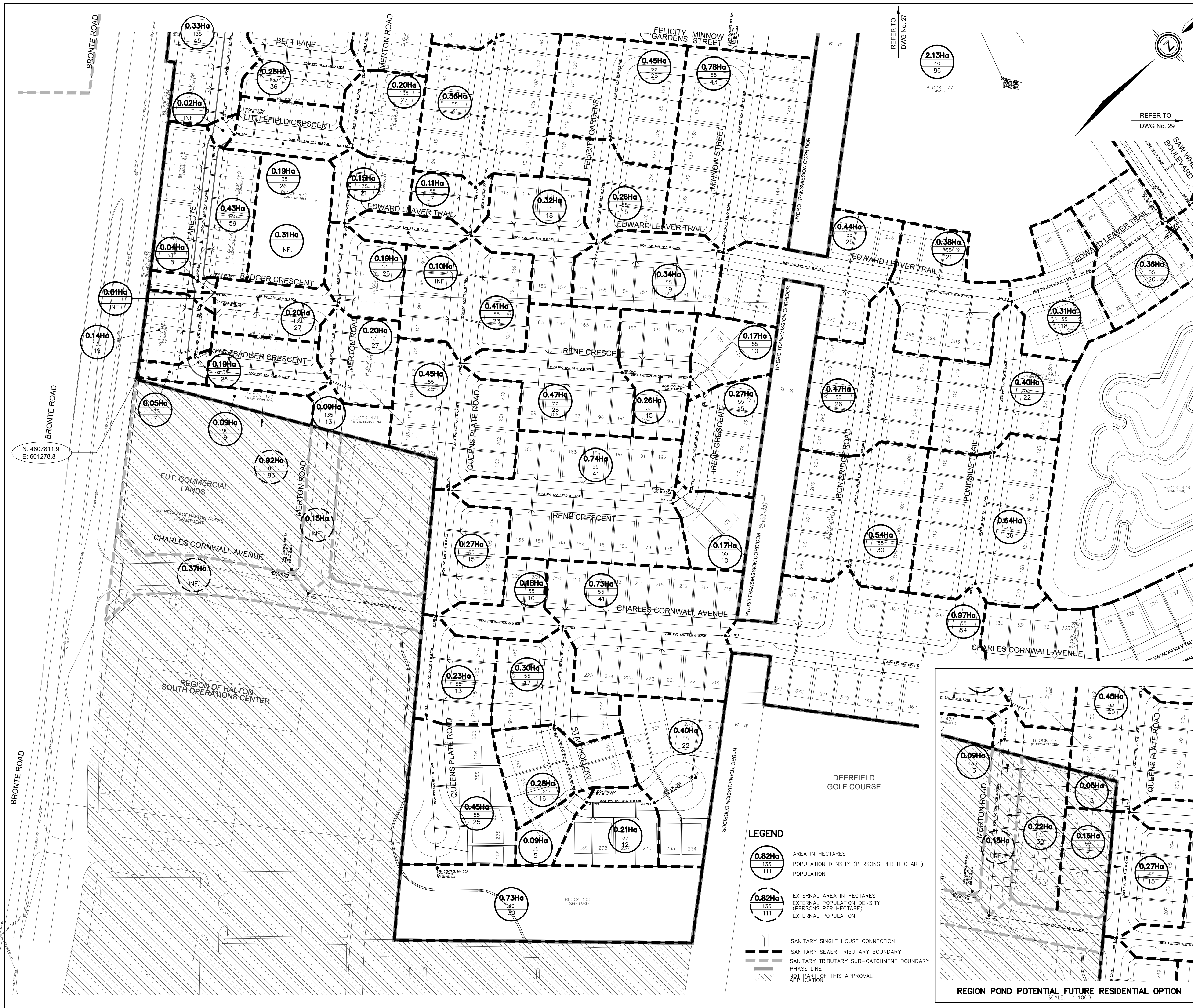
TITLE
SANITARY DRAINAGE PLAN

MUNICIPAL FILE NO.	SD-XXX.X	REGIONAL FILE NO.	DO-1040
PROJECT NO.	12-601	SHEET	27 OF 145

REFER TO
 DWG No. 28

REFER TO
 DWG No. 29

REFER TO
 DWG No. 28



TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
 CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
 CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-09-RPLAN, SURVEY DATED AUGUST 09, 2017.
 PROJECT No. 12-30-371-11, SURVEY DATED JANUARY 2, 2018.
 PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

NO.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	M.OE SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	M.OE SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	M.OE SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE
				JUNE 2017

SCALE	HORIZ.	1:1000	0	10	20	30	40	REFERENCES

APPROVALS		FIELD NOTES
MUNICIPAL APPROVAL		BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS		GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
MANAGER OF DEVELOPMENT ENGINEERING		TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>



DSEL david schaeffer engineering ltd
 600 Alden Road, Suite 500
 Markham, Ontario, L3R 0E7
 Tel. (905) 475-3080
 Fax. (905) 475-3081
 www.DSEL.ca

MUNICIPALITY OF OAKVILLE
 DEVELOPMENT ENGINEERING

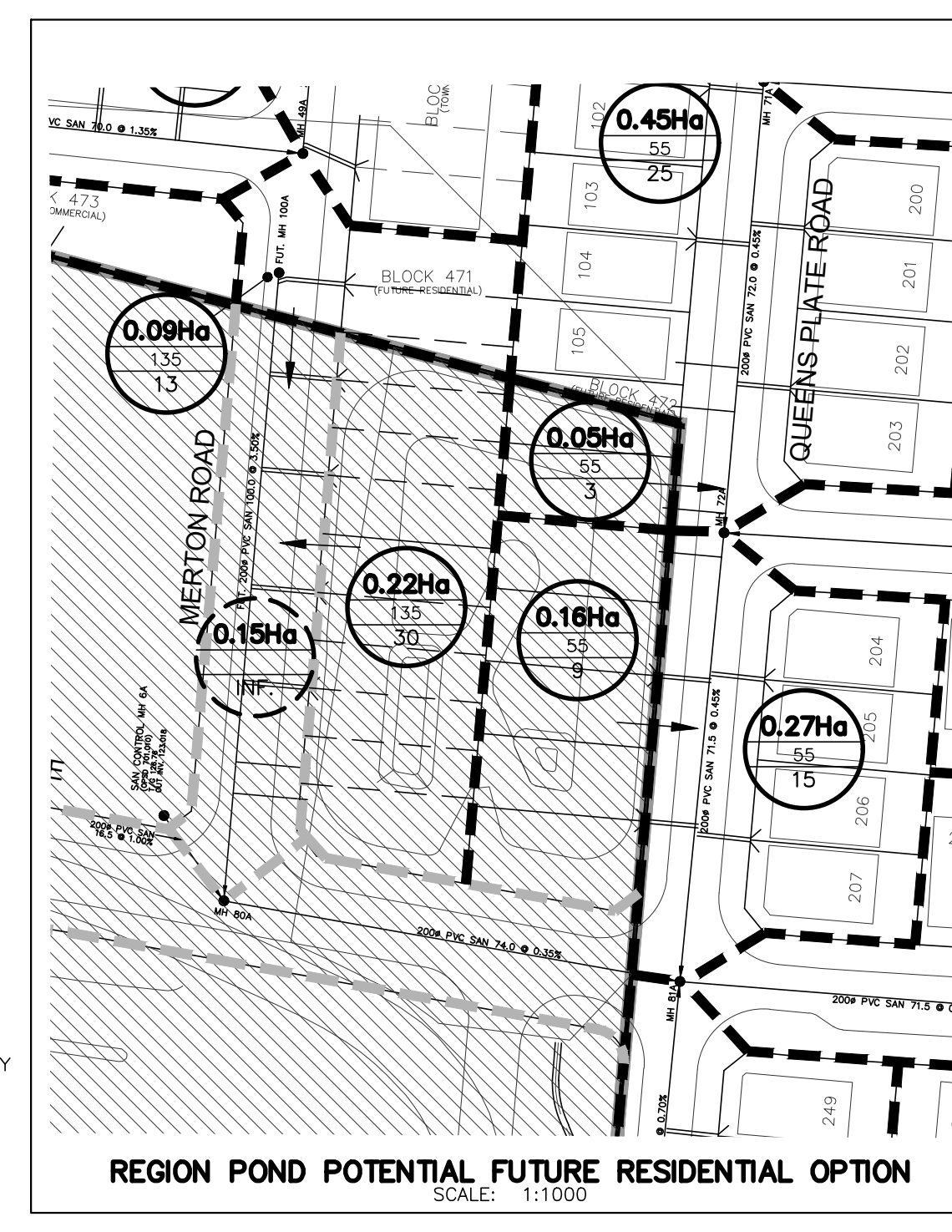
REGION OF HALTON
 The Regional Municipality of Halton

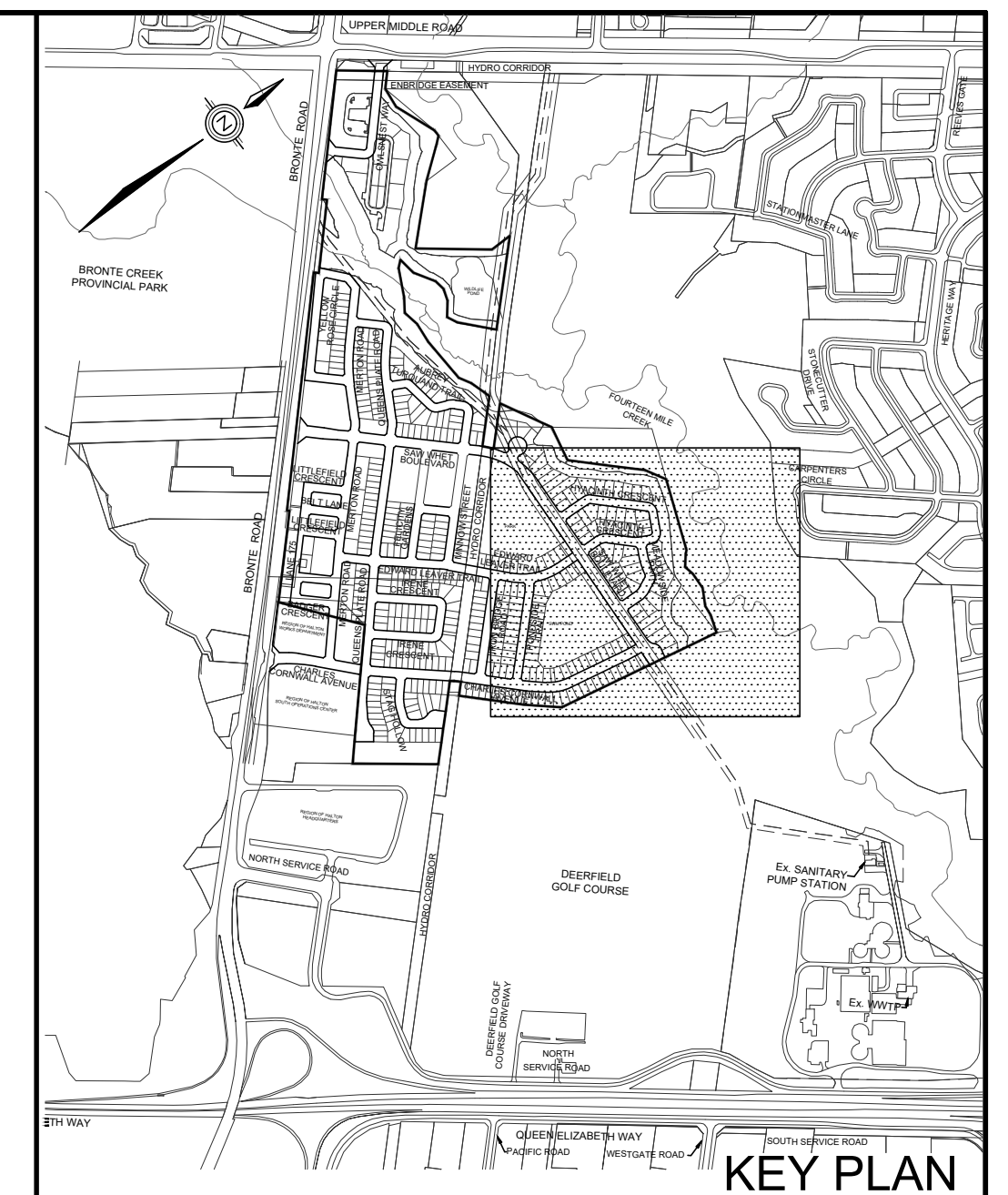
DEVELOPER: BRONTE GREEN CORPORATION

PROJECT: BRONTE GREEN SUBDIVISION
 24T-14004

TITLE: SANITARY DRAINAGE PLAN

MUNICIPAL FILE NO. SD-XXX.X	REGIONAL FILE NO. DO-1040
PROJECT NO. 12-601	SHEET 28 OF 145





TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-02-TOPG-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
 CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
 CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-09, SURVEY DATED AUGUST 09, 2017.
 PROJECT No. 12-30-371-11, SURVEY DATED SEPTEMBER 14, 2017.
 PROJECT No. 12-30-371-11-B, SURVEY DATED JANUARY 2, 2018.
 PROJECT No. 12-30-371-11-D, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

NO.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	M.O.E SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	M.O.E SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	M.O.E SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:	W.L. <td></td> <td></td>		

SCALE	HORIZ. 1:1000	VERT. 1:100	REFERENCES
	0 10 20 30 40		

APPROVALS	FIELD NOTES
MUNICIPAL APPROVAL	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
MANAGER OF DEVELOPMENT ENGINEERING	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>



DSEL david schaeffer engineering ltd
 600 Alden Road, Suite 500
 Markham, Ontario, L3R 0E7
 Tel. (905) 475-3080
 Fax. (905) 475-3081
 www.DSEL.ca

MUNICIPALITY
OAKVILLE
 DEVELOPMENT ENGINEERING

REGION

 The Regional Municipality of Halton

DEVELOPER
BRONTE GREEN CORPORATION

PROJECT
BRONTE GREEN SUBDIVISION
 24T-14004

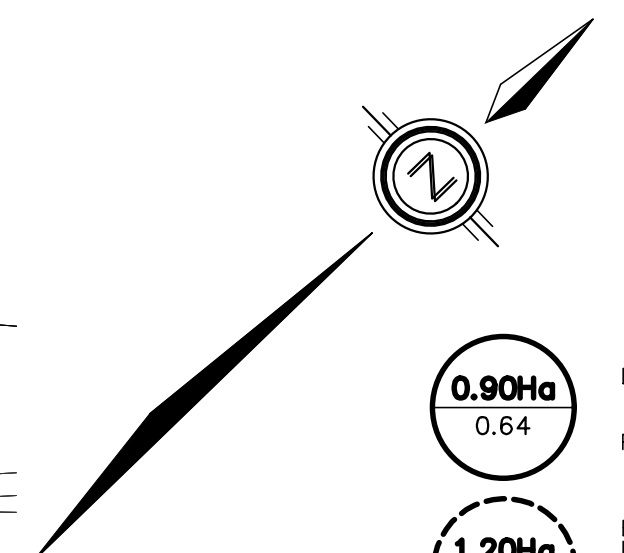
TITLE
SANITARY DRAINAGE PLAN

MUNICIPAL FILE NO. SD-XXX.X	REGIONAL FILE NO. DO-1040
PROJECT NO. 12-601	SHEET 29 OF 145

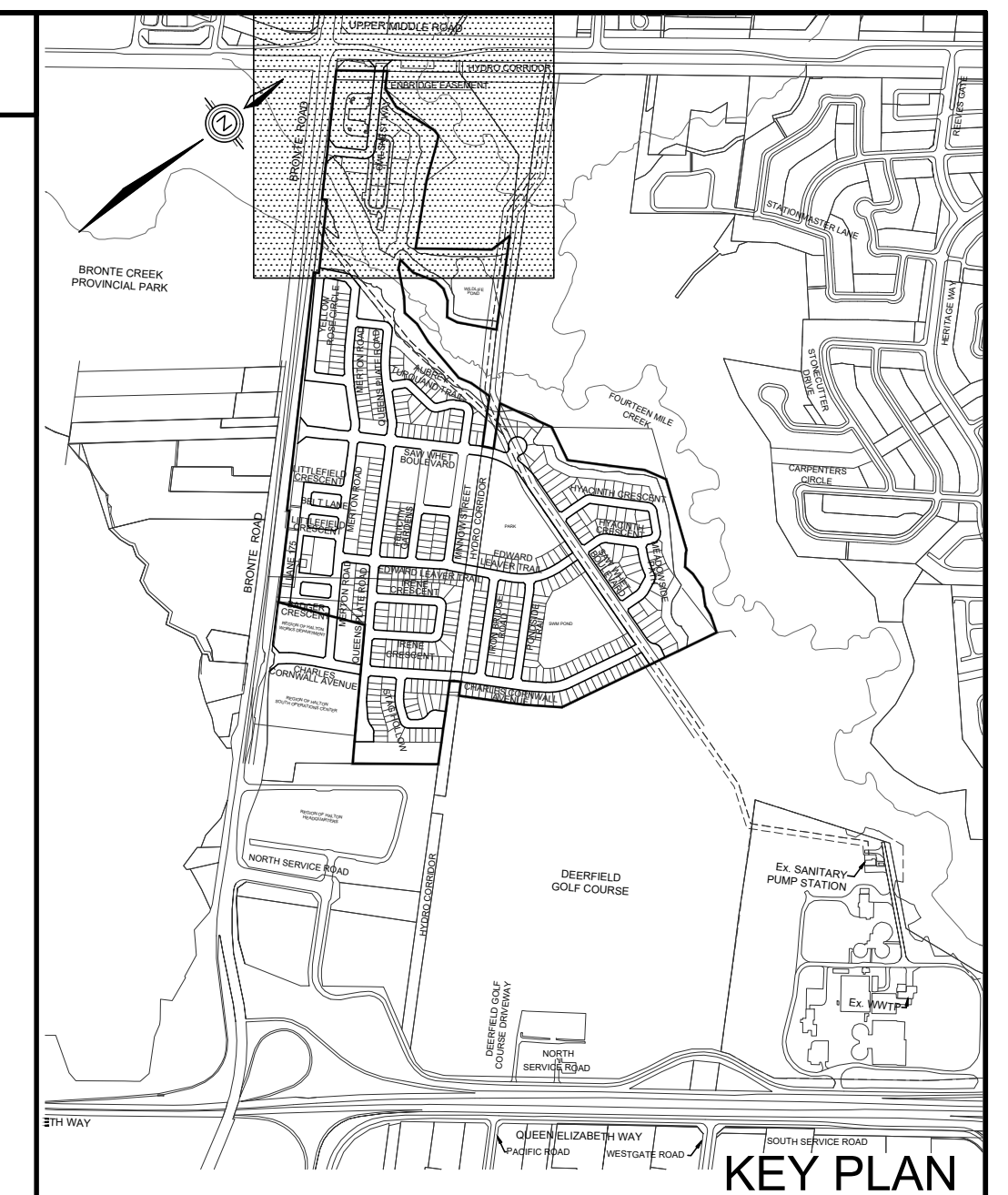
LEGEND

- 0.82Ha**
135
111
AREA IN HECTARES
POPULATION DENSITY (PERSONS PER HECTARE)
POPULATION
- 0.82Ha**
135
111
EXTERNAL AREA IN HECTARES
EXTERNAL POPULATION DENSITY (PERSONS PER HECTARE)
EXTERNAL POPULATION
- SANITARY SINGLE HOUSE CONNECTION
- SANITARY SEWER TRIBUTARY BOUNDARY
- SANITARY TRIBUTARY SUB-CATCHMENT BOUNDARY
- PHASE LINE
- NOT PART OF THIS APPROVAL APPLICATION

ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS & PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED. SEE DWG. 108 FOR SUMP PUMP DETAIL.



- 0.90Ha**
0.64
RUN-OFF COEFFICIENT
- 1.20Ha**
0.90
EXTERNAL DRAINAGE AREA IN HECTARES
RUN-OFF COEFFICIENT
- STORM SINGLE HOUSE CONNECTION
- OVERLAND FLOW DIRECTION
- OVERLAND FLOW DIRECTION
- SINGLE CATCHBASIN
- DOUBLE CATCHBASINS
- STORM SEWER TRIBUTARY BOUNDARY
- STORM TRIBUTARY SUB-CATCHMENT BOUNDARY
- EXTERNAL STORM TRIBUTARY BOUNDARY
- PHASE LINE
- NOT PART OF THIS APPROVAL APPLICATION



TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPG-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED AUGUST 09, 2017.
PROJECT No. 12-30-371-09-RPLAN, SURVEY DATED SEPTEMBER 14, 2017.
PROJECT No. 12-30-371-11, SURVEY DATED JANUARY 2, 2018.
PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	W.L.	MOE SUBMISSION	APPROVED
11	19-06-21	W.L.	MOE SUBMISSION 2 AMENDMENT	
10	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9	19-03-13	W.L.	MOE SUBMISSION 2	
8	19-02-12	W.L.	4th SUBMISSION TO REGION	
7	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4	18-09-12	W.L.	MOE SUBMISSION	
3	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE
	D.A.			JUNE 2017

SCALE	REFERENCES
HORIZ. 1:1000 0 10 20 30 40	

APPROVALS	FIELD NOTES
	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>

REGIONAL APPROVAL
APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY

STAMP
LICENSED PROFESSIONAL ENGINEER
W. LIU
100167932
19-07-91
PROVINCE OF ONTARIO

DSEL 600 Alden Road, Suite 500
Markham, Ontario, L3R 0E7
Tel. (905) 475-3080
Fax. (905) 475-3081
www.DSEL.ca

MUNICIPALITY
 OAKVILLE
DEVELOPMENT ENGINEERING

REGION
 Halton REGION
The Regional Municipality of Halton

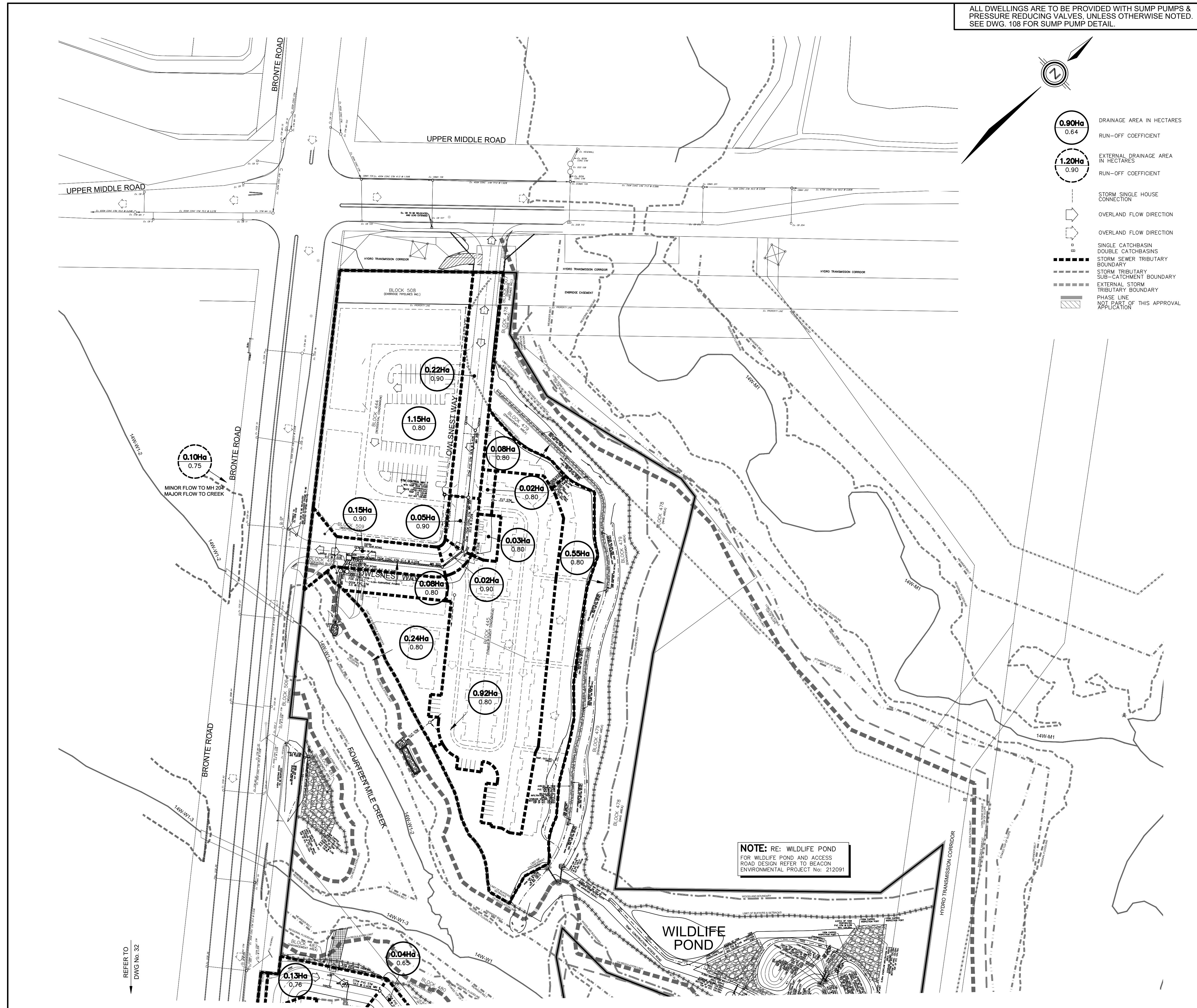
DEVELOPER
BRONTE GREEN CORPORATION

PROJECT
BRONTE GREEN SUBDIVISION
24T-14004

TITLE
STORM DRAINAGE PLAN

MUNICIPAL FILE NO. SD-XXX.X **REGIONAL FILE NO.** DO-1040

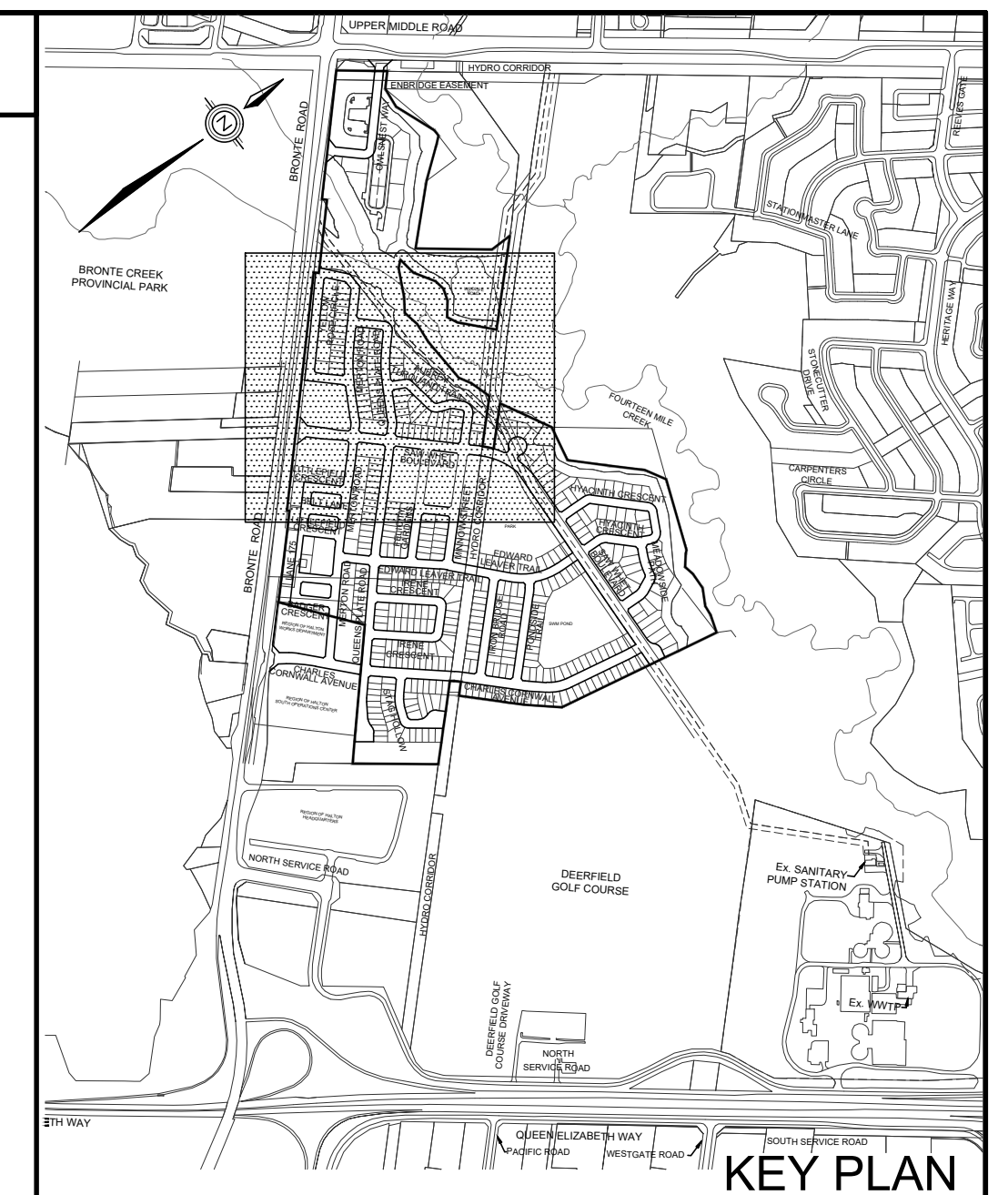
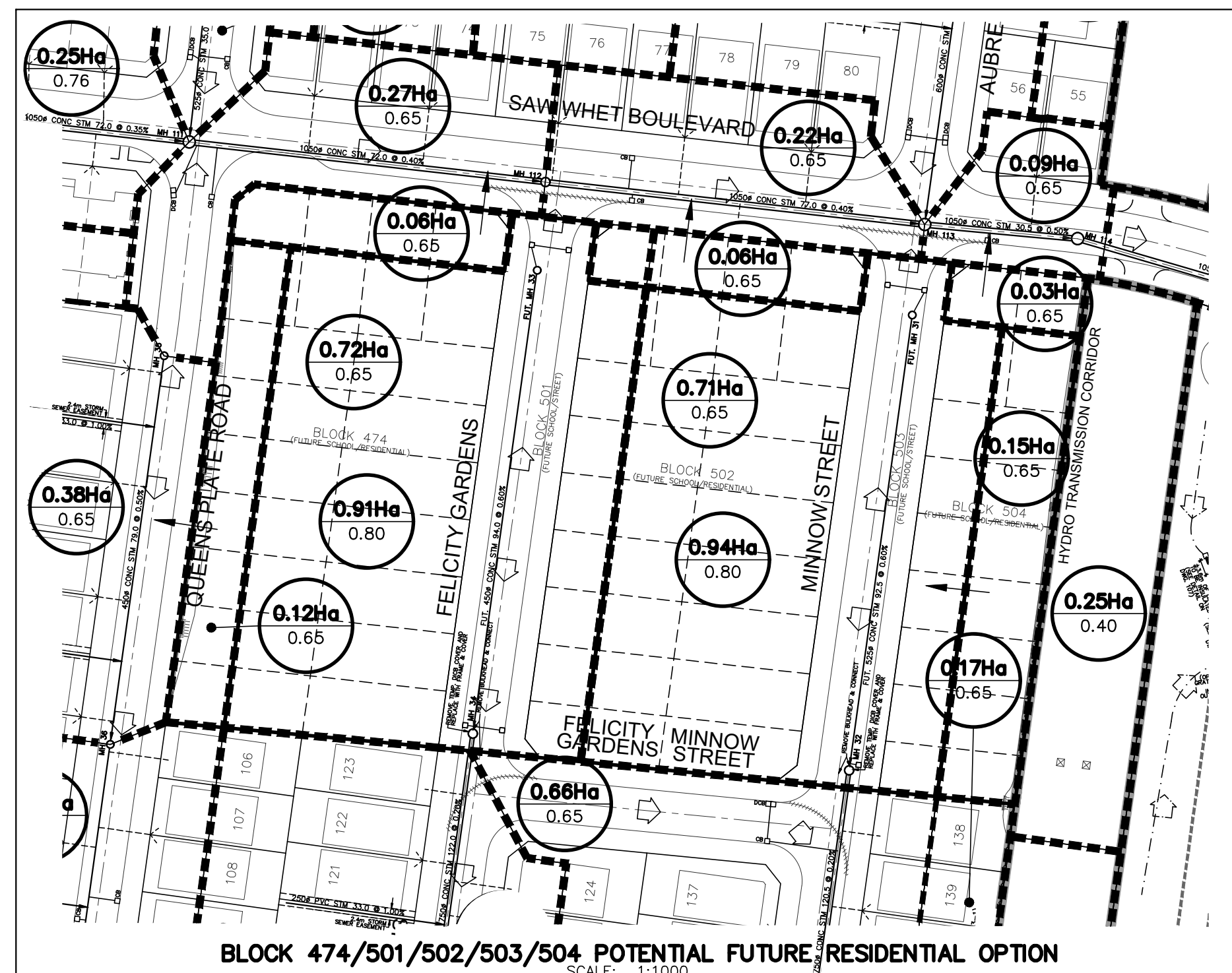
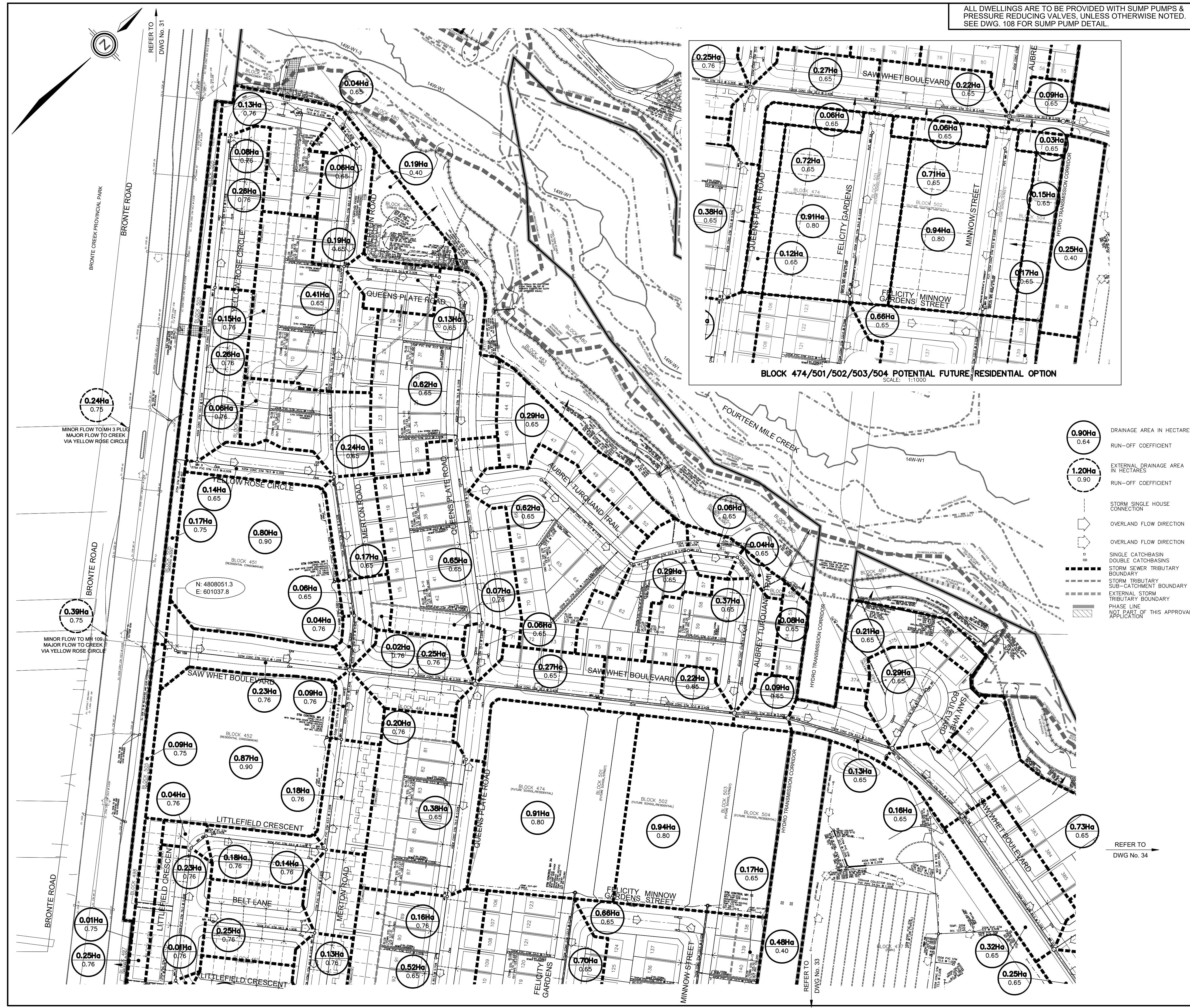
PROJECT NO. 12-601 **SHEET** 31 **OF** 145



NOTE: RE: WILDLIFE POND
FOR WILDLIFE POND AND ACCESS ROAD DESIGN REFER TO BEACON ENVIRONMENTAL PROJECT No. 212091

REFER TO
DWG No. 32

ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS & PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED. SEE DWG. 108 FOR SUMP PUMP DETAIL.



TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
 CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
 CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD.,
 PROJECT No. 12-30-371-04-RPLAN, SURVEY DATED AUGUST 09, 2017.
 PROJECT No. 12-30-371-09-RPLAN, SURVEY DATED SEPTEMBER 14, 2017.
 PROJECT No. 12-30-371-11-SURVEY DATED JANUARY 2, 2018.
 PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11	19-06-21	W.L.	M.O.E SUBMISSION 2 AMENDMENT	
10	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9	19-03-13	W.L.	M.O.E SUBMISSION 2	
8	19-02-12	W.L.	4th SUBMISSION TO REGION	
7	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4	18-09-12	W.L.	M.O.E SUBMISSION	
3	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2	18-03-23	W.L.	2nd SUBMISSION	

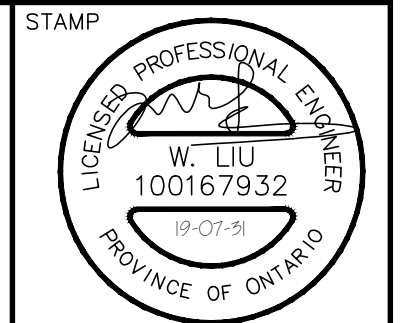
DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE
				JUNE 2017

SCALE	HORIZ.	1:1000	0	10	20	30	40
-------	--------	--------	---	----	----	----	----

APPROVALS	FIELD NOTES
	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>

REGIONAL APPROVAL
 APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY.

LEGISLATIVE AND PLANNING SERVICES DATE



DSEL david schaeffer engineering ltd
 600 Alden Road, Suite 500
 Markham, Ontario, L3R 0E7
 Tel. (905) 475-3080
 Fax. (905) 475-3081
 www.DSEL.ca

MUNICIPALITY
OAKVILLE
 DEVELOPMENT ENGINEERING

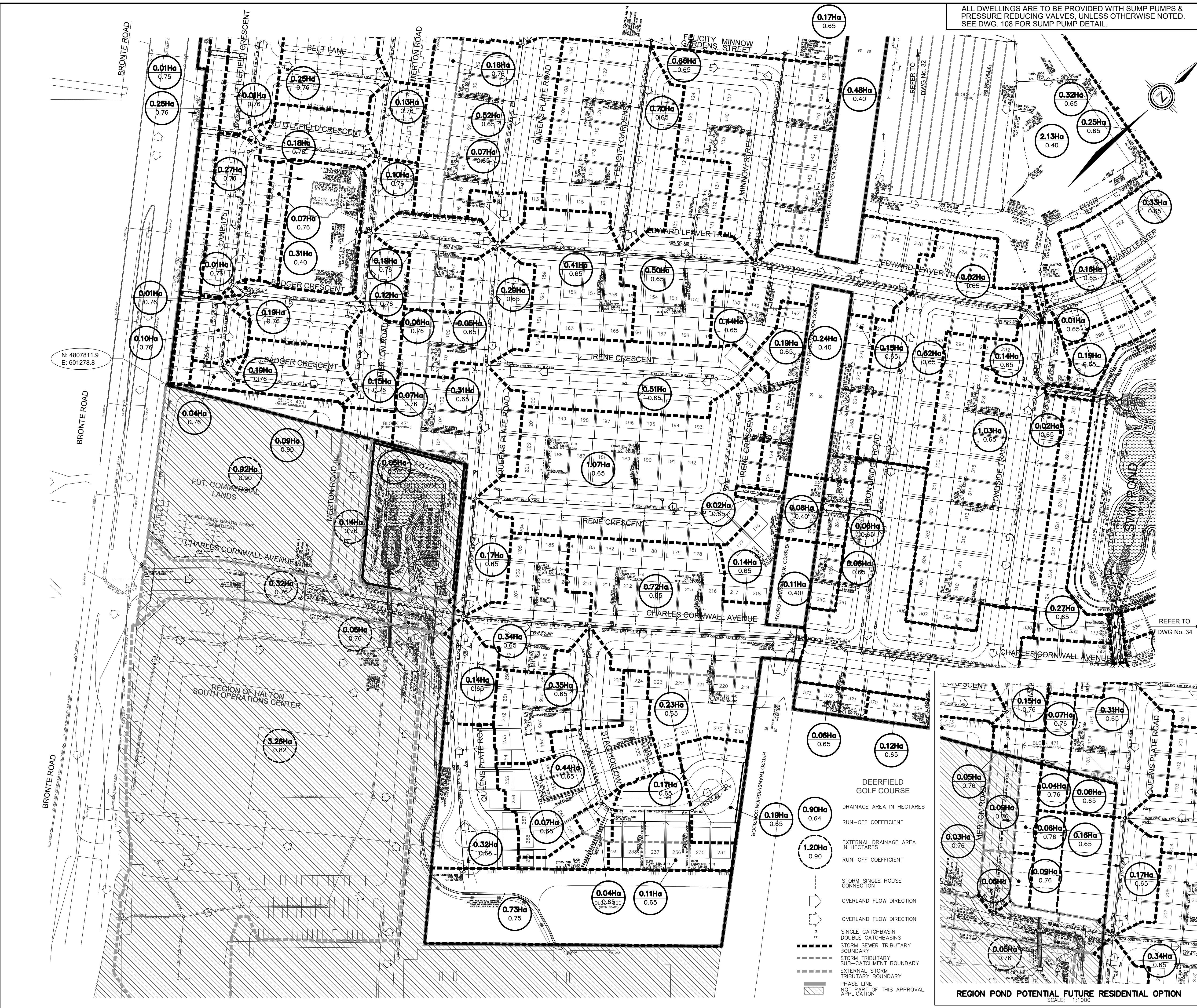
REGION
Halton REGION
 The Regional Municipality of Halton

DEVELOPER
BRONTE GREEN CORPORATION

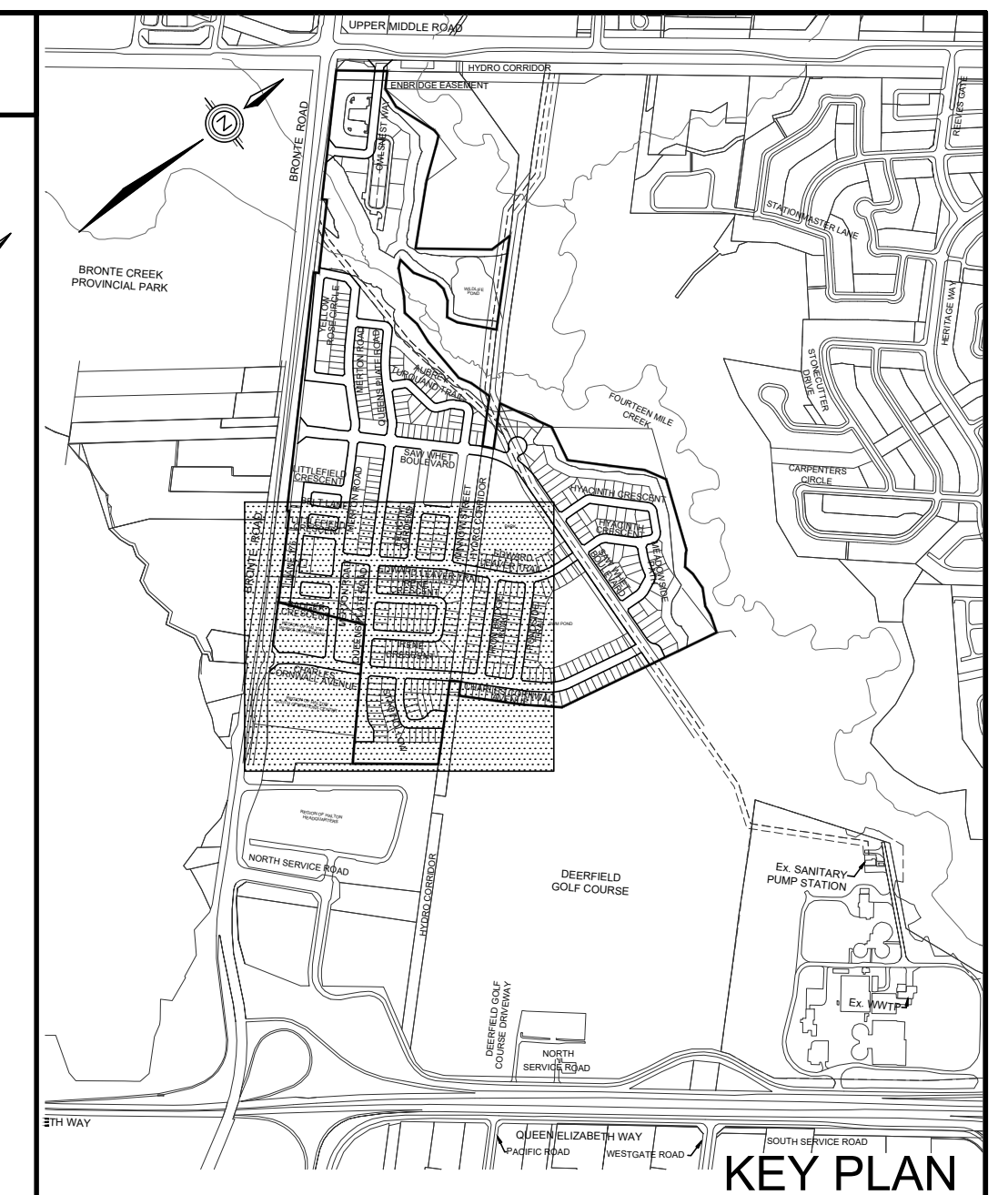
PROJECT
BRONTE GREEN SUBDIVISION
 24T-14004

TITLE
STORM DRAINAGE PLAN

MUNICIPAL FILE NO. SD-XXX.X	REGIONAL FILE NO. DO-1040
PROJECT NO. 12-601	SHEET 32 OF 145



ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS & PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED. SEE DWG. 108 FOR SUMP PUMP DETAIL.



TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPG-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
 CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
 CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-09, SURVEY DATED AUGUST 09, 2017.
 PROJECT No. 12-30-371-11-SURVEY DATED SEPTEMBER 14, 2017.
 PROJECT No. 12-30-371-11-B, SURVEY DATED JANUARY 2, 2018.
 PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	M.OE SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	M.OE SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	M.OE SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

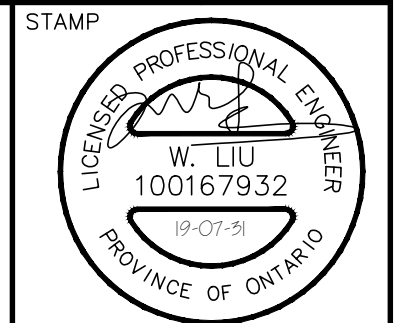
DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:	W.L.		

SCALE	HORIZ. 1:1000	0	10	20	30	40	REFERENCES
-------	---------------	---	----	----	----	----	------------

APPROVALS	FIELD NOTES
	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>

REGIONAL APPROVAL
 APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY.

LEGISLATIVE AND PLANNING SERVICES DATE



DSEL david schaeffer engineering ltd
 600 Alden Road, Suite 500
 Markham, Ontario, L3R 0E7
 Tel. (905) 475-3080
 Fax. (905) 475-3081
 www.DSEL.ca

MUNICIPALITY **OAKVILLE** DEVELOPMENT ENGINEERING

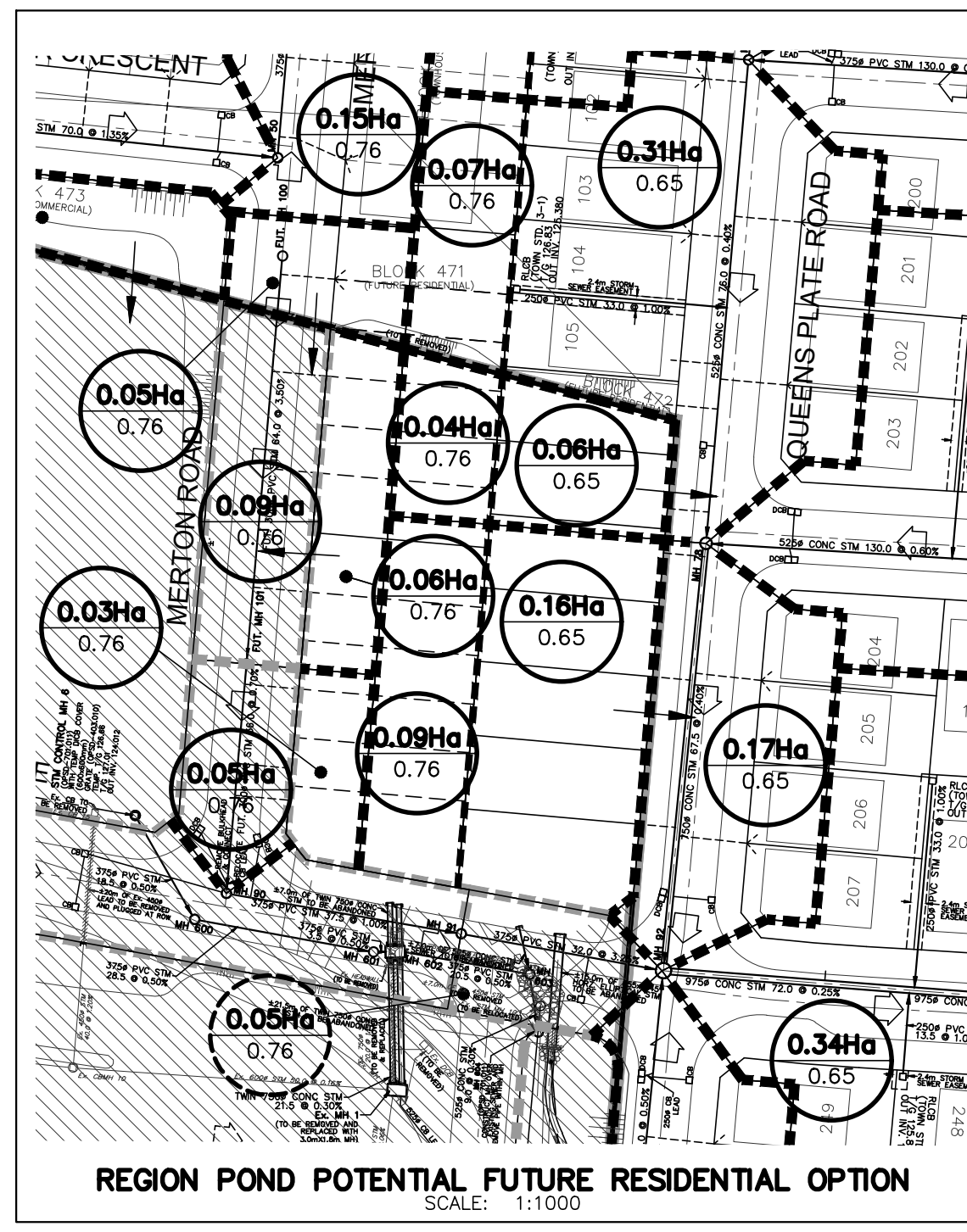
REGION **Halton** The Regional Municipality of Halton

DEVELOPER **BRONTE GREEN CORPORATION**

PROJECT **BRONTE GREEN SUBDIVISION**
 24T-14004

TITLE **STORM DRAINAGE PLAN**

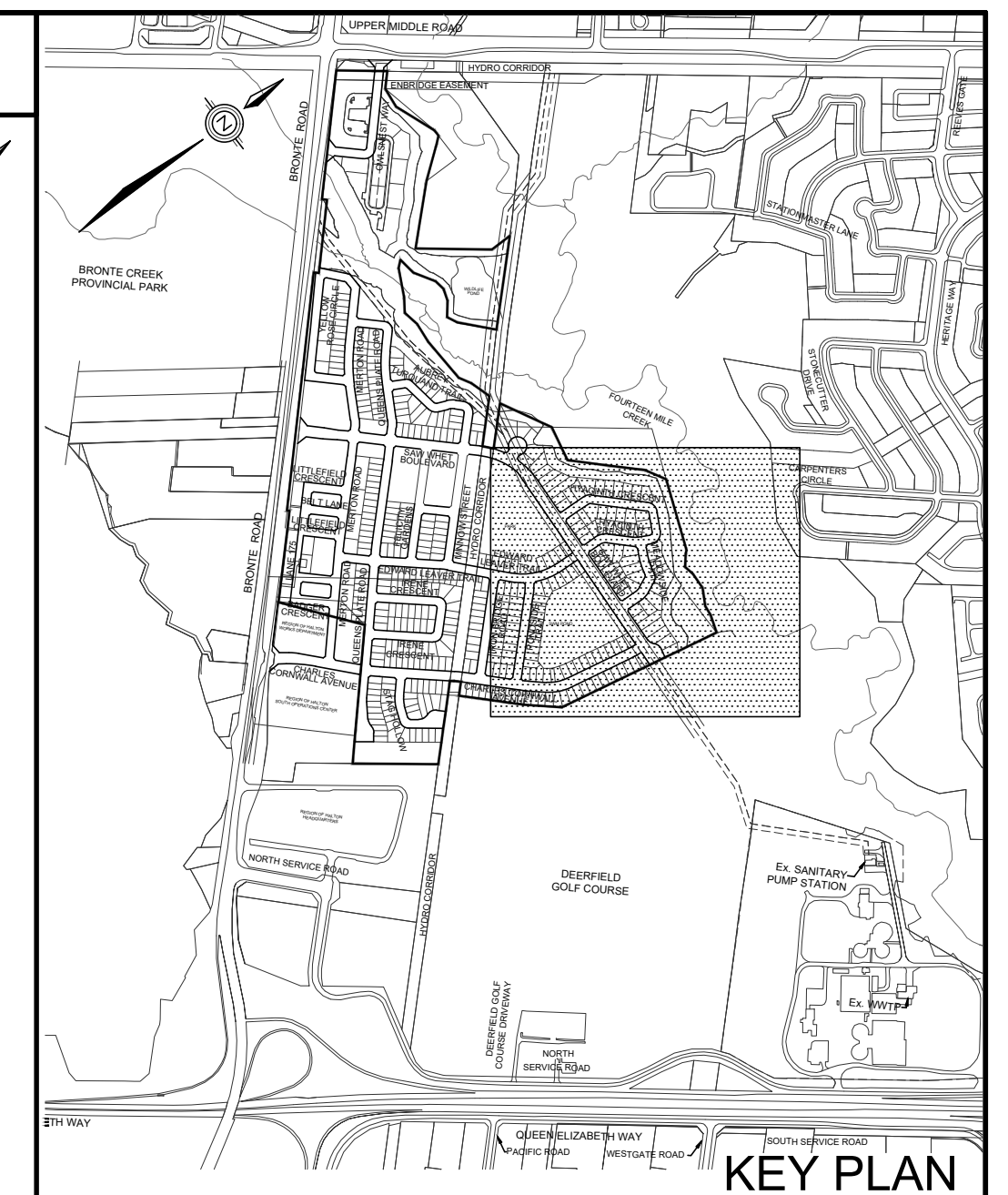
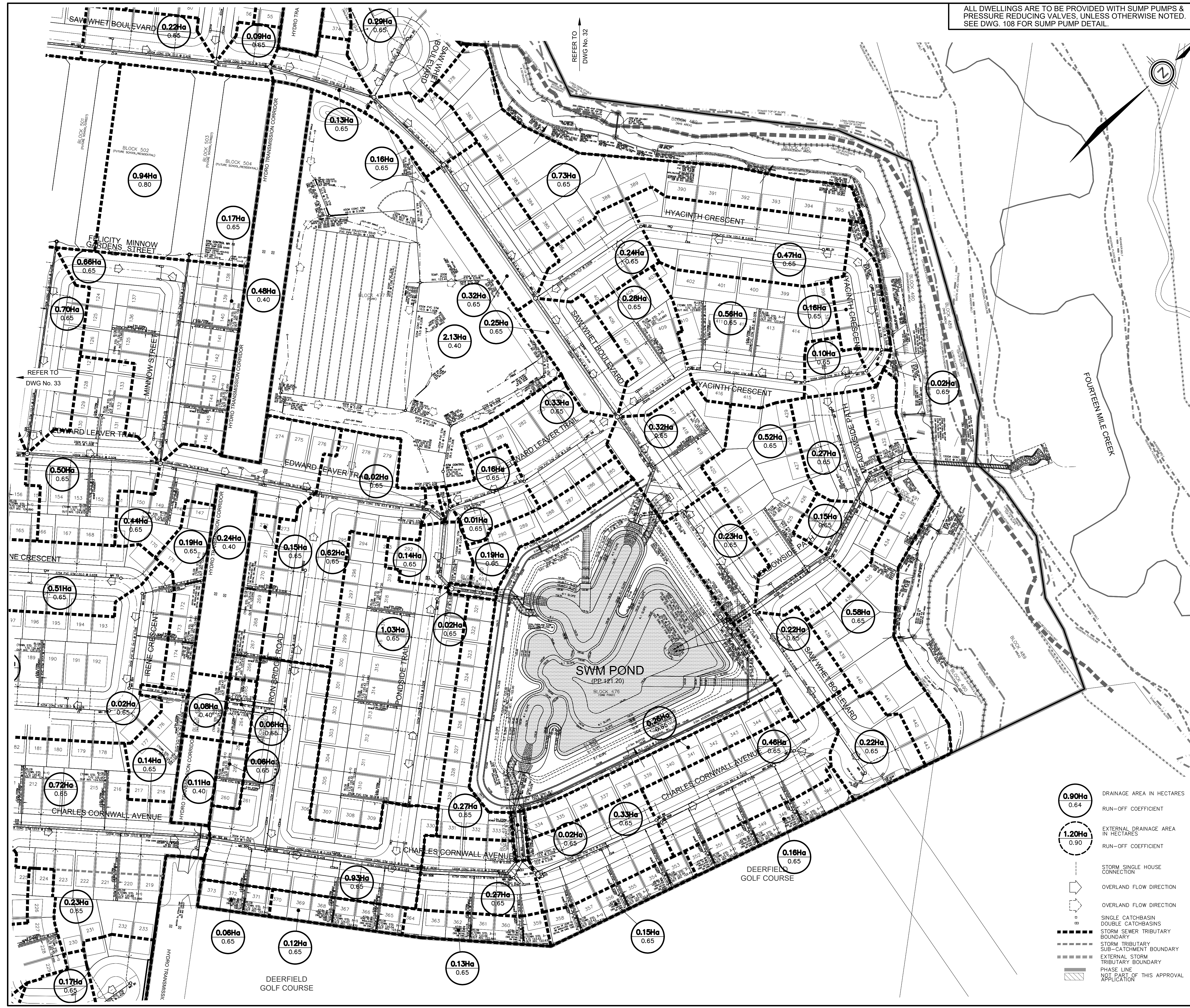
MUNICIPAL FILE NO.	SD-XXX.X	REGIONAL FILE NO.	DO-1040
PROJECT NO.	12-601	SHEET	33 OF 145



- 0.06Ha 0.65
 - 0.12Ha 0.65
 - 0.08Ha 0.64
 - 0.19Ha 0.65
 - 0.90Ha 0.64
 - 1.20Ha 0.90
 - 0.04Ha 0.65
 - 0.11Ha 0.65
 - 0.07Ha 0.65
 - 0.17Ha 0.65
 - 0.07Ha 0.65
 - 0.34Ha 0.65
 - 0.04Ha 0.65
 - 0.11Ha 0.65
- DEERFIELD GOLF COURSE
- DRAINAGE AREA IN HECTARES
- RUN-OFF COEFFICIENT
- EXTERNAL DRAINAGE AREA IN HECTARES
- RUN-OFF COEFFICIENT
- STORM SINGLE HOUSE CONNECTION
- OVERLAND FLOW DIRECTION
- OVERLAND FLOW DIRECTION
- SINGLE CATCHBASIN
- DOUBLE CATCHBASIN
- STORM SEWER TRIBUTARY BOUNDARY
- STORM TRIBUTARY SUB-CATCHMENT BOUNDARY
- EXTERNAL STORM TRIBUTARY BOUNDARY
- PHASE LINE
- NOT PART OF THIS APPROVAL APPLICATION

REGION POND POTENTIAL FUTURE RESIDENTIAL OPTION
 SCALE: 1:1000

ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS & PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED. SEE DWG. 108 FOR SUMP PUMP DETAIL.



TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPG-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
 CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
 CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-09, SURVEY DATED AUGUST 09, 2017.
 PROJECT No. 12-30-371-11-RPLAN, SURVEY DATED SEPTEMBER 14, 2017.
 PROJECT No. 12-30-371-11-SURVEY, DATED JANUARY 2, 2018.
 PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

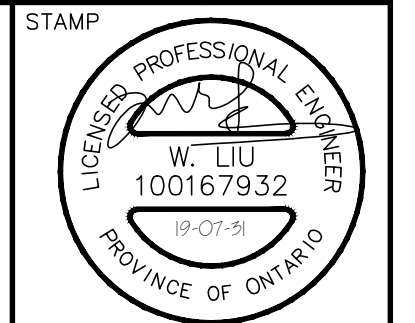
No.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	M.O.E SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	M.O.E SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	M.O.E SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE:	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:	W.L.	REFERENCES:	

APPROVALS	FIELD NOTES
	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>

REGIONAL APPROVAL
 APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY.

LEGISLATIVE AND PLANNING SERVICES DATE



DSEL david schaeffer engineering ltd
 600 Alden Road, Suite 500
 Markham, Ontario, L3R 0E7
 Tel. (905) 475-3080
 Fax. (905) 475-3081
 www.DSEL.ca

MUNICIPALITY
OAKVILLE
 DEVELOPMENT ENGINEERING

REGION
Halton REGION
 The Regional Municipality of Halton

DEVELOPER
BRONTE GREEN CORPORATION

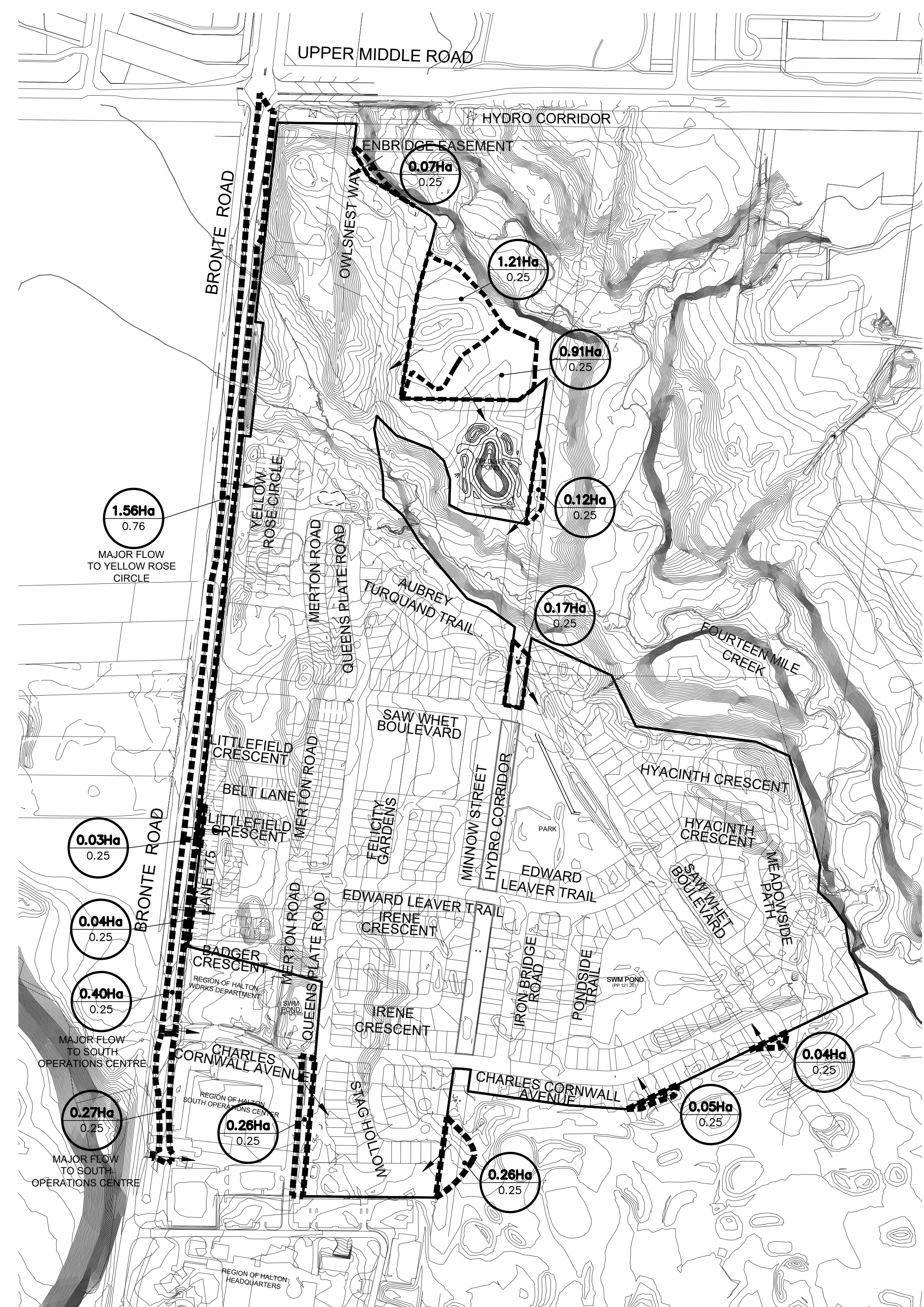
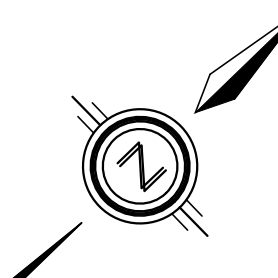
PROJECT
BRONTE GREEN SUBDIVISION
 24T-14004

TITLE
STORM DRAINAGE PLAN

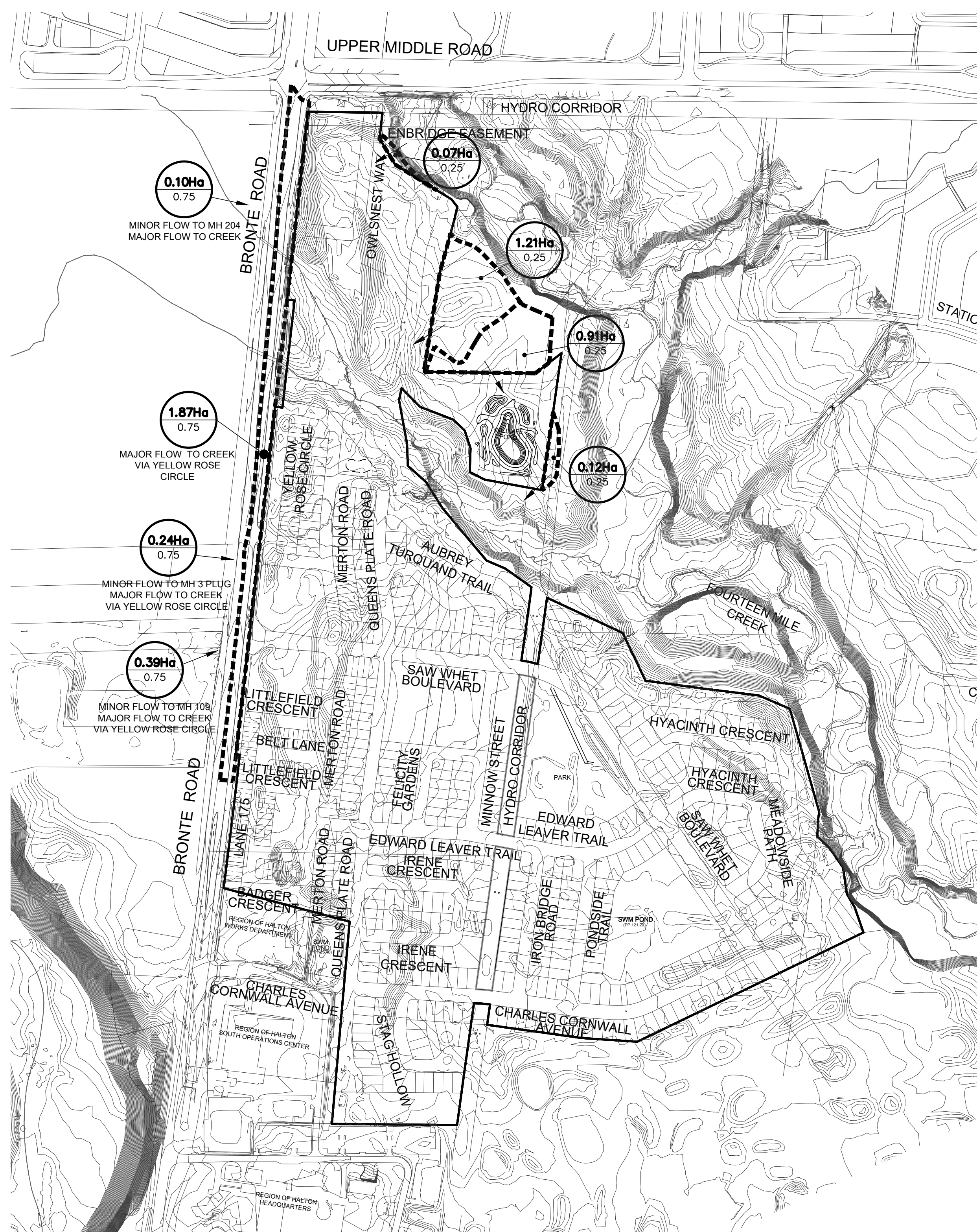
MUNICIPAL FILE NO.	SD-XXX.X	REGIONAL FILE NO.	DO-1040
PROJECT NO.	12-601	SHEET	34 OF 145

- 0.90Ha** 0.64
DRAINAGE AREA IN HECTARES
RUN-OFF COEFFICIENT
- 1.20Ha** 0.90
EXTERNAL DRAINAGE AREA IN HECTARES
RUN-OFF COEFFICIENT
- STORM SINGLE HOUSE CONNECTION
- OVERLAND FLOW DIRECTION
- OVERLAND FLOW DIRECTION
- SINGLE CATCHBASIN
DOUBLE CATCHBASINS
STORM SEWER TRIBUTARY BOUNDARY
- STORM TRIBUTARY SUB-CATCHMENT BOUNDARY
- EXTERNAL STORM TRIBUTARY BOUNDARY
- PHASE LINE
NOT PART OF THIS APPROVAL APPLICATION

ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS & PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED. SEE DWG. 108 FOR SUMP PUMP DETAIL.



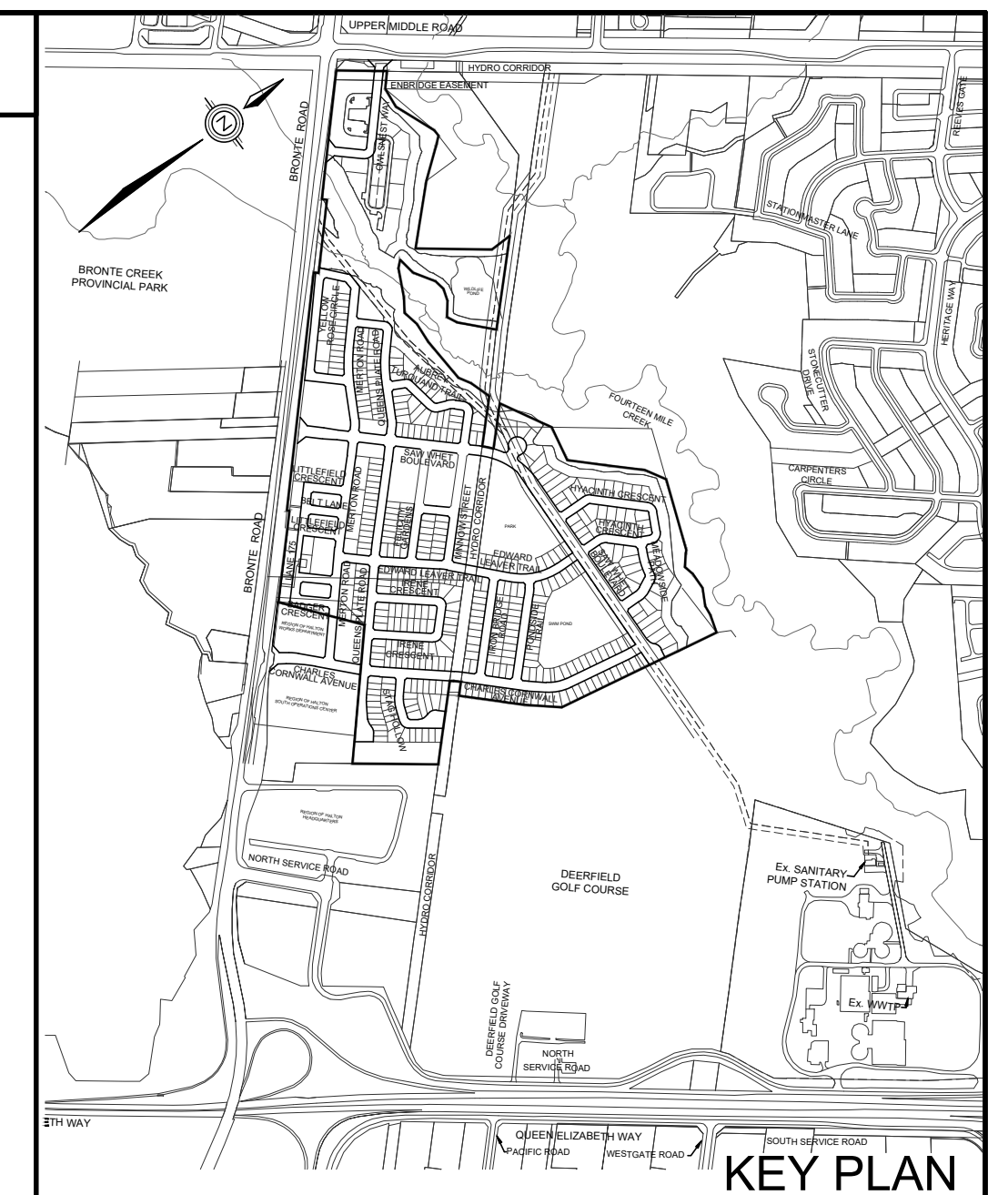
EXTERNAL PRE DEVELOPMENT STORM DRAINAGE PLAN



EXTERNAL POST DEVELOPMENT STORM DRAINAGE PLAN

LEGEND

	DRAINAGE AREA IN HECTARES
	RUN-OFF COEFFICIENT
	EXTERNAL STORM TRIBUTARY BOUNDARY



TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
 CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
 CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-09-RPLAN, SURVEY DATED AUGUST 09, 2017.
 PROJECT No. 12-30-371-11, SURVEY DATED JANUARY 2, 2018.
 PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11	19-06-21	W.L.	MOC SUBMISSION 2 AMENDMENT	
10	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9	19-03-13	W.L.	MOC SUBMISSION 2	
8	19-02-12	W.L.	4th SUBMISSION TO REGION	
7	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4	18-09-12	W.L.	MOC SUBMISSION	
3	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2	18-03-23	W.L.	2nd SUBMISSION	

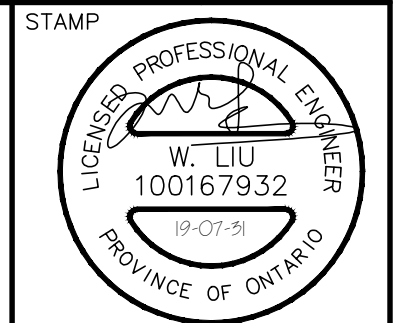
DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE
DRAWN BY:	D.A.	CHECKED BY:	W.L.	JUNE 2017

SCALE: HORIZ. 1:3000

APPROVALS	FIELD NOTES
	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>

REGIONAL APPROVAL
 APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY

LEGISLATIVE AND PLANNING SERVICES _____ DATE _____



DSEL david schaeffer engineering ltd
 600 Alden Road, Suite 500
 Markham, Ontario, L3R 0E7
 Tel. (905) 475-3080
 Fax. (905) 475-3081
 www.DSEL.ca

MUNICIPALITY **OAKVILLE**
 DEVELOPMENT ENGINEERING

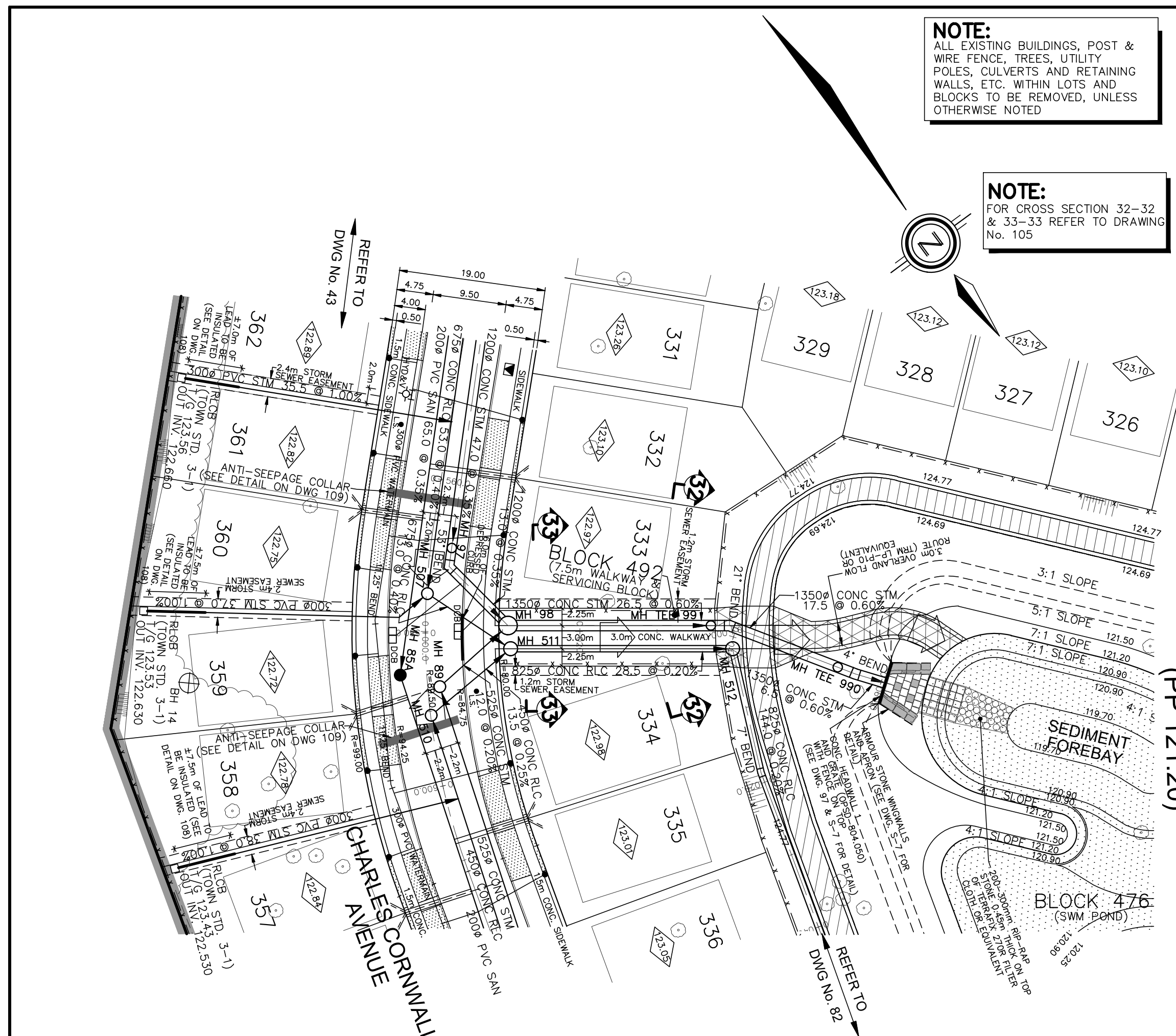
REGION **Halton** The Regional Municipality of Halton

DEVELOPER **BRONTE GREEN CORPORATION**

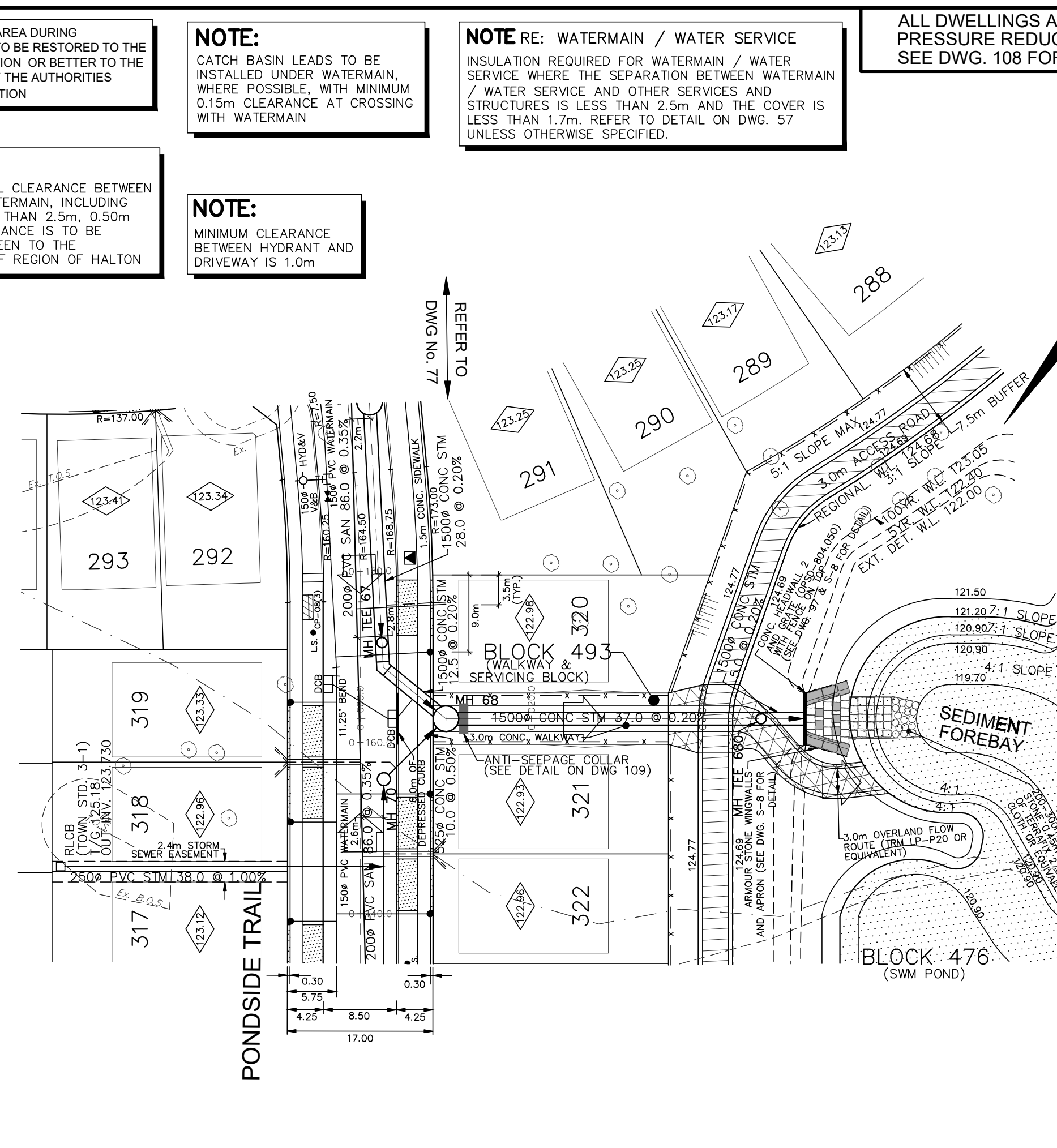
PROJECT **BRONTE GREEN SUBDIVISION**
 24T-14004

TITLE **STORM DRAINAGE PLAN**
 (EXTERNAL PRE & POST DRAINAGE)

MUNICIPAL FILE NO. SD-XXX.X	REGIONAL FILE NO. DO-1040
PROJECT NO. 12-601	SHEET 35 OF 145

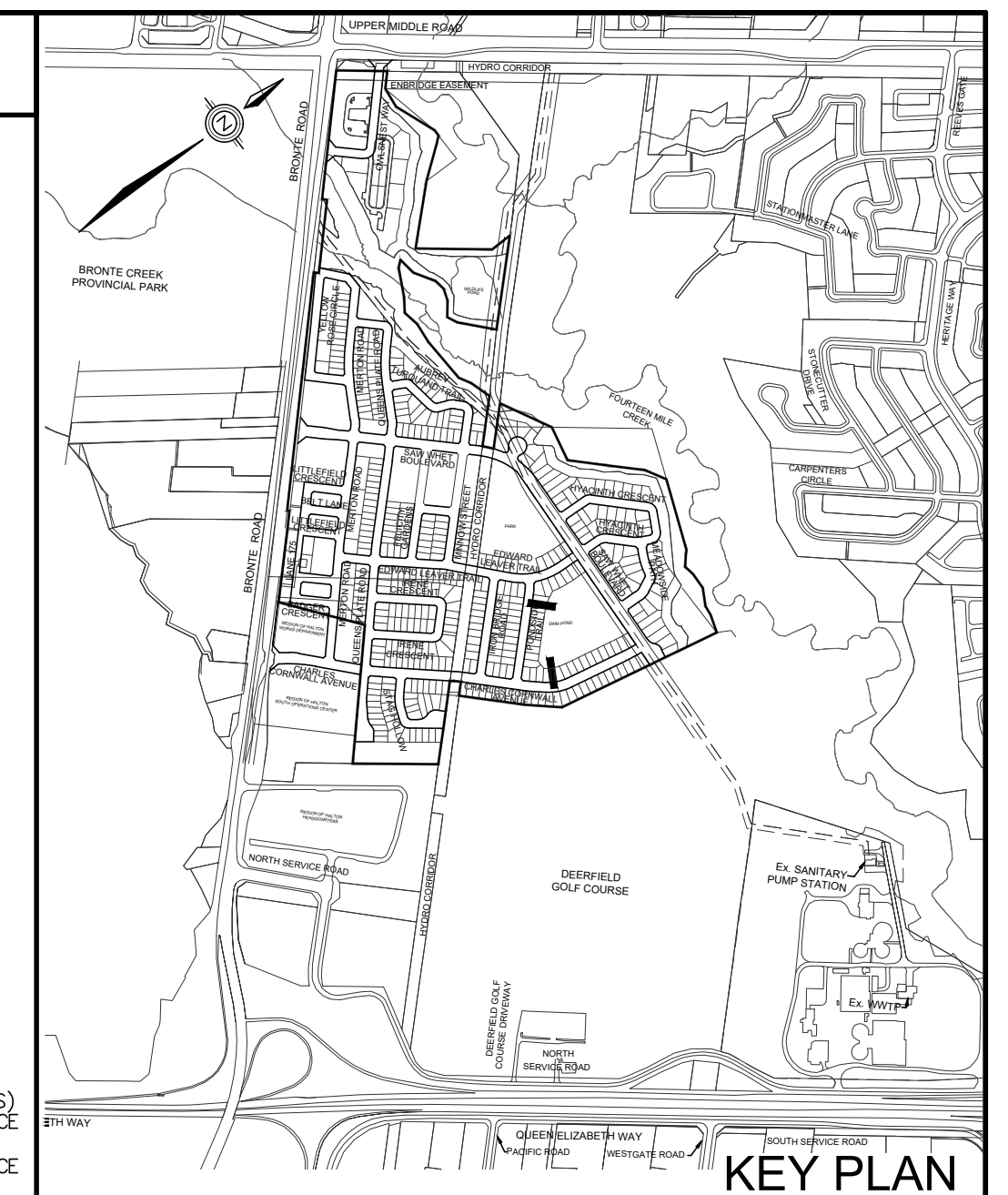


SWM POND
(pp 121.20)



SWM POND
(pp 121.20)

- LEGEND**
- STORM MANHOLE
 - SANITARY MANHOLE
 - STORM MANHOLE (SEE OTHERS)
 - SINGLE SANITARY CONNECTION
 - DOUBLE SANITARY CONNECTION
 - SINGLE STORM CONNECTION
 - WATER CONNECTION
 - HYDRANT
 - VALVE & BOX
 - VALVE & CHAMBER
 - SINGLE CATCHBASIN
 - DOUBLE CATCHBASIN
 - HYDRO TRANSFORMER
 - COMMUNITY MAILBOX AND PAD LOCATION (WITH SIDEWALK)
 - E10X-ENG-08
 - (1) - ONE MODULE
 - (2) - TWO MODULES
 - (3) - THREE MODULES
 - LIGHT STANDARD
 - WOOD ACUSTIC FENCE (HEIGHT AS SPECIFIED)
 - 1.2m HIGH DECORATIVE FENCE (SEE LANDSCAPE DWG. FOR DETAILS)
 - 1.2m HIGH BLACK VINYL CHAIN LINK FENCE (SEE LANDSCAPE DWG. FOR DETAILS)
 - 1.5m HIGH BLACK VINYL CHAIN LINK FENCE (SEE LANDSCAPE DWG. FOR DETAILS)
 - 1.8m HIGH WOOD PRIVACY FENCE (SEE LANDSCAPE DWG. FOR DETAILS)
 - INFERRED TOP OF SHALE ELEVATION PROVIDED BY SOIL ENGINEERS LTD. APRIL 2017
 - PROPOSED OVERLAND FLOW DIRECTION
 - EXTERNAL OVERLAND FLOW DIRECTION
 - UNDERSIDE OF FOOTING ELEVATION (USF)
 - SLAB ON GRADE BLOCKS/UNITS
 - DRIVEWAY WITH CONCRETE APRON (LOWLY STD. 10%)
 - PHASE LINE
 - PIPE CROSSING (SEE DWG. 108 FOR DETAIL)
 - TREES TO BE PRESERVED (WITHIN OR ADJACENT TO LIMIT OF SUBDIVISION)
 - TREES TO BE REMOVED (WITHIN OR ADJACENT TO LIMIT OF SUBDIVISION)
 - TREE PROTECTION FENCE
 - TACTILE WARNING SURFACE INDICATOR (REFER TO DWG. 140 FOR DETAIL)
 - NOT PART OF THIS APPROVAL APPLICATION



TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

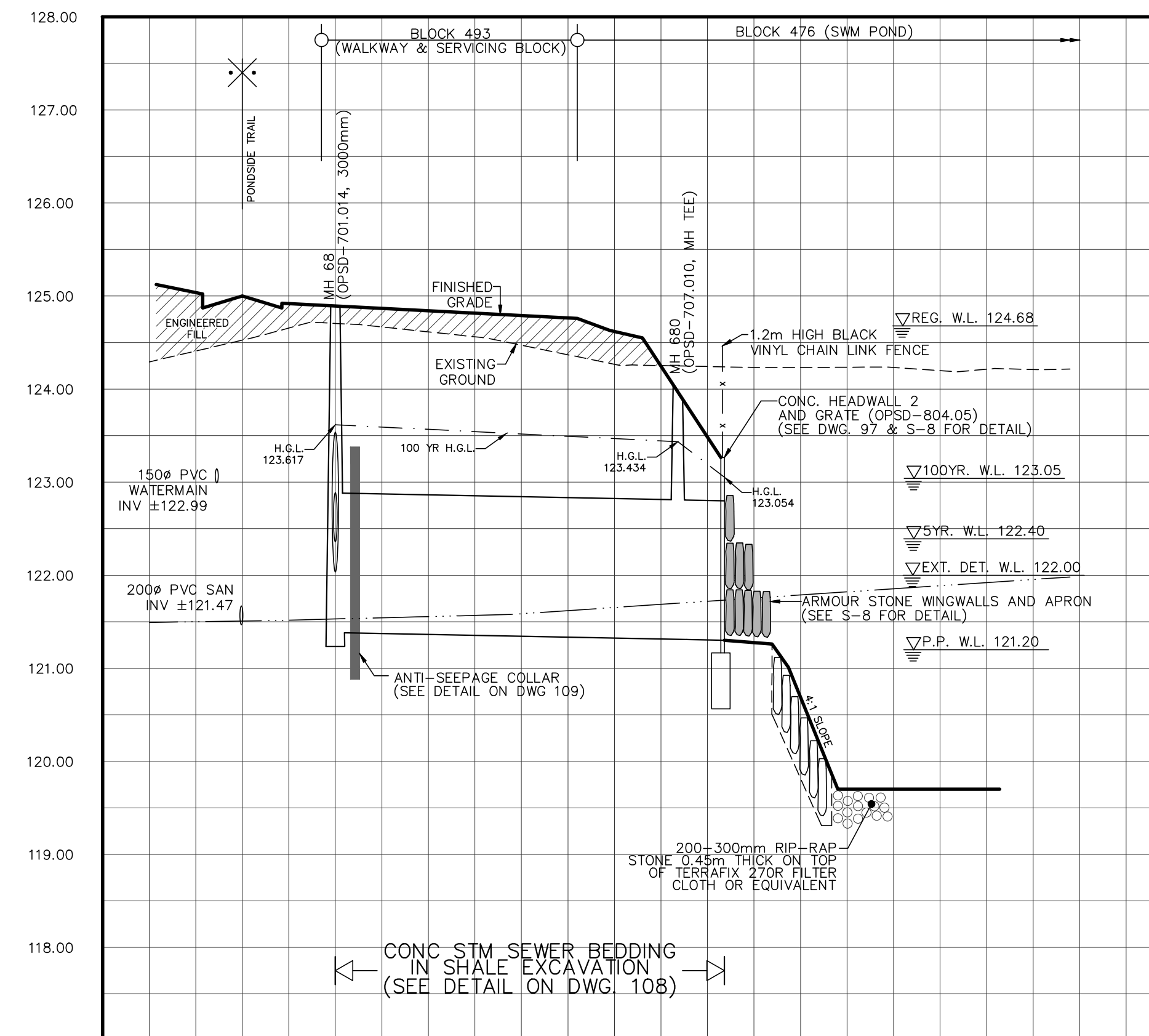
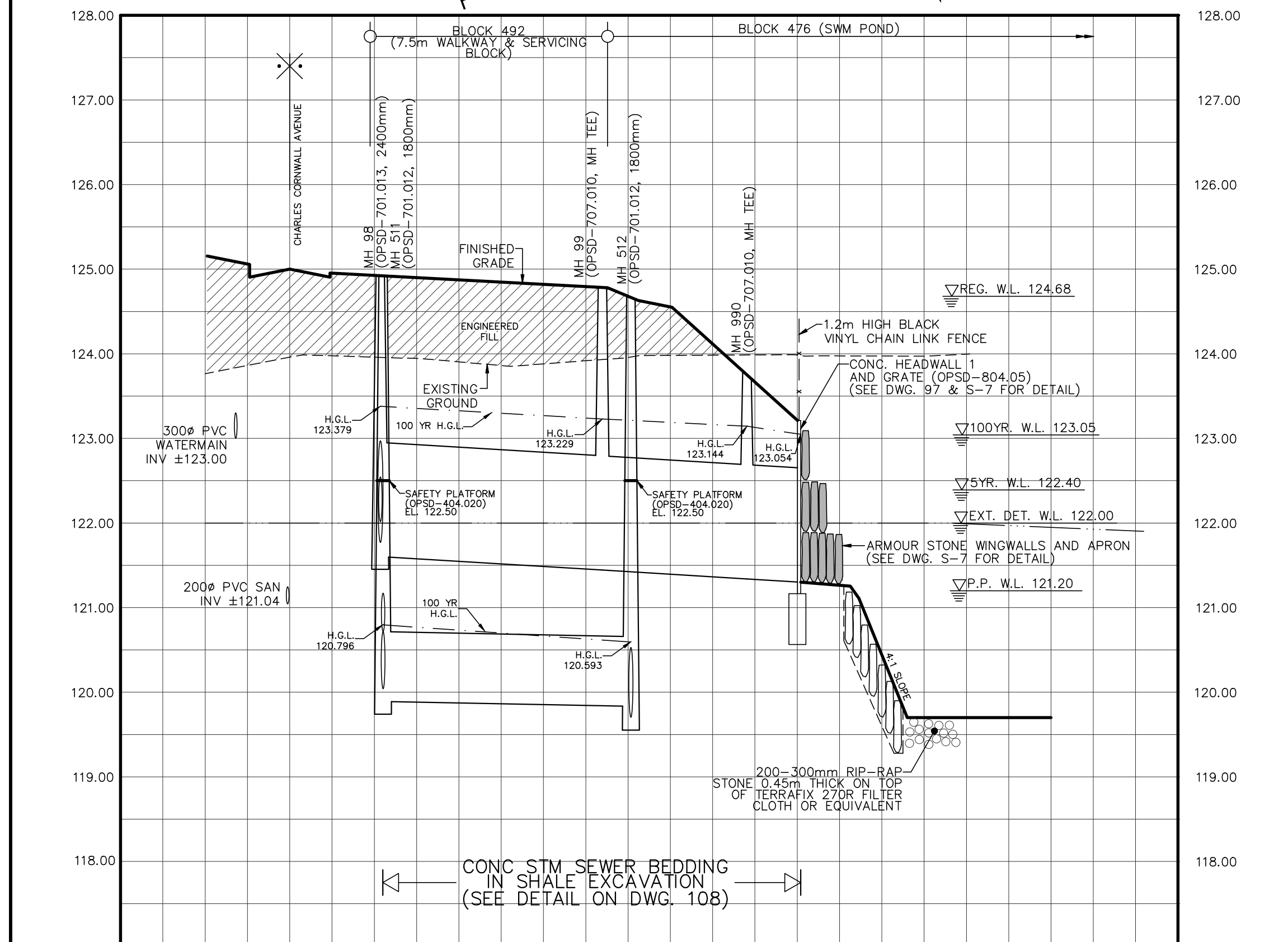
LEGAL INFORMATION
CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-04, SURVEY DATED AUGUST 09, 2017.
PROJECT No. 12-30-371-09-RPLAN, SURVEY DATED SEPTEMBER 14, 2017.
PROJECT No. 12-30-371-11, SURVEY DATED JANUARY 2, 2018.
PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m

ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11	19-06-21	W.L.	MOE SUBMISSION 2 AMENDMENT	
10	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9	19-03-13	W.L.	MOE SUBMISSION 2	
8	19-02-12	W.L.	4th SUBMISSION TO REGION	
7	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4	18-09-12	W.L.	MOE SUBMISSION	
3	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2	18-03-23	W.L.	2nd SUBMISSION	



NOTE: WATERMAIN RESTRAINED JOINTS
FOR WATERMAIN INSTALLED IN FILLED AREAS, INCLUDING INSTALLED WITHIN OPEN TRENCH OF SEWER INSTALLATION, MECHANICAL RESTRAINED JOINTS ARE REQUIRED AS PER GEOTECHNICAL RECOMMENDATIONS ON SITE, TO THE SATISFACTION OF REGION OF HALTON

NOTE RE: BEDDING DESIGN
BEDDING DESIGN TO BE VERIFIED ON SITE BY GEOTECHNICAL ENGINEER PRIOR TO UNDERGROUND SERVICE INSTALLATION!

STORM INVERT	121.770 S 121.770 NW 121.603	1350# CONC STM 26.5 @ 0.60% 100-D	121.444 SE 121.444 NW 121.339	1350# CONC STM 17.5 @ 0.60% 100-D	121.300 SE 121.300 NW 121.121	HEADWALL
REAR LOT COLLECTOR INVERT	120.040 S 120.040 NW 119.890	825# CONC RLC 28.5 @ 0.20% 140-D	119.703 SE 119.833 N 119.703	1350# CONC STM 6.5 @ 0.60% 100-D		
PROPOSED GRADES						
CENTERLINE CHAINAGE	PI 0+000.000	0+020.000	0+040.000	0+060.000	0+080.000	

STORM INVERT	122.359 S 122.359 W 122.034	1500# CONC STM 37.0 @ 0.20% 100-D	121.310 SW 121.310 NE 121.300	1500# CONC STM 5.0 @ 0.20% 100-D	121.300 SW 121.300 NE 121.300	HEADWALL
REAR LOT COLLECTOR INVERT	120.040 S 120.040 NW 119.890	825# CONC RLC 28.5 @ 0.20% 140-D	119.703 SE 119.833 N 119.703	1350# CONC STM 6.5 @ 0.60% 100-D		
PROPOSED GRADES						
CENTERLINE CHAINAGE	PI 0+000.000	0+020.000	0+040.000	0+060.000	0+080.000	

APPROVALS

BELL HYDRO

GAS CABLE

TRAFFIC WATER

REGIONAL APPROVAL

APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCATIONAL APPROVAL FROM AREA MUNICIPALITY

LEGISLATIVE AND PLANNING SERVICES _____ DATE _____

STAMP

PROFESSIONAL ENGINEER
W. LIU
100167932
19-07-20
PROVINCE OF ONTARIO

DSEL
david schaeffer engineering ltd

600 Alden Road, Suite 500
Markham, Ontario, L3R 0E7
Tel. (905) 475-3080
Fax. (905) 475-3081
www.DSEL.ca

MUNICIPALITY

OAKVILLE
DEVELOPMENT ENGINEERING

REGION

Halton REGION
The Regional Municipality of Halton

DEVELOPER

BRONTE GREEN CORPORATION

PROJECT

BRONTE GREEN SUBDIVISION
24T-14004

TITLE

**PLAN AND PROFILE OF
POND INLET 1 & 2**
(FROM STA. 0+000.000 TO STA. 0+060.000)

MUNICIPAL FILE NO. **SD-XXX.X** REGIONAL FILE NO. **DO-1040**

PROJECT NO. **12-601** SHEET **81** OF **145**

ANY DISTURBED AREA DURING CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION

NOTE:
ALL EXISTING BUILDINGS, POST & WIRE FENCE, TREES, UTILITY POLES, CULVERTS AND RETAINING WALLS, ETC. WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED

NOTE RE: WATERMAIN / WATER SERVICE
INSULATION REQUIRED FOR WATERMAIN / WATER SERVICE WHERE THE SEPARATION BETWEEN WATERMAIN / WATER SERVICE AND OTHER SERVICES AND STRUCTURES IS LESS THAN 2.5m AND THE COVER IS LESS THAN 1.7m. REFER TO DETAIL ON DWG. 108 UNLESS OTHERWISE SPECIFIED.

NOTE:
IF SIGNIFICANT GROUNDWATER IS ENCOUNTERED DURING TUNNELING OPERATIONS, THE ENVIRONMENTAL CONSULTANT SHOULD BE INFORMED AND THEY SHOULD ALERT CONSERVATION HALTON. ALL DEWATERING OF THE TUNNEL SHOULD BE PUMPED VIA FILTER BAGS TO THE TABLELAND FOR INFILTRATION FOLLOWING PROPER EROSION AND SEDIMENT CONTROLS UNDER THE DIRECTION OF THE ENVIRONMENTAL CONSULTANT.

NOTE:
FOR CROSS SECTION 21-21 & 22-22 REFER TO DRAWING No. 104

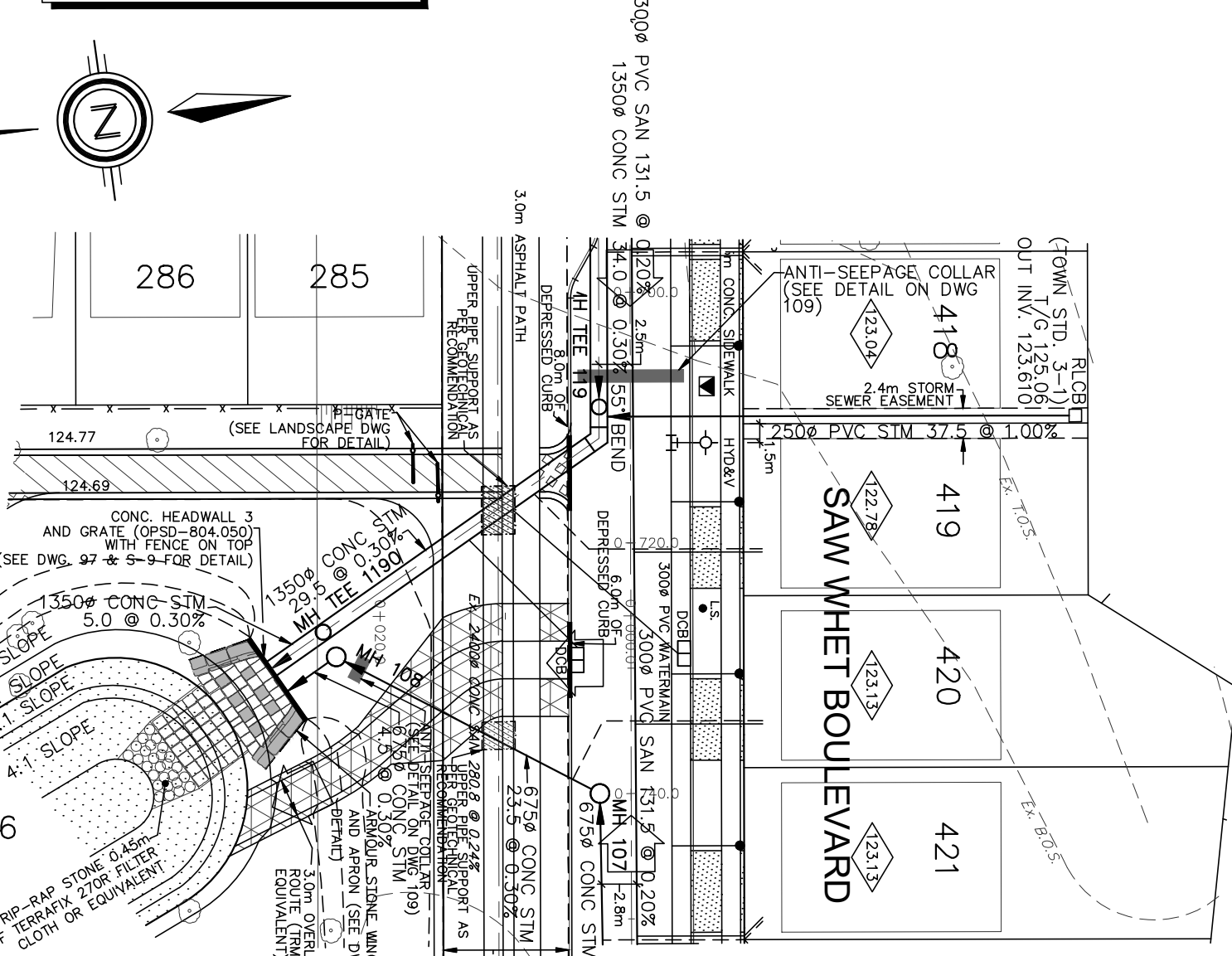
NOTE:
WORKS WITHIN THE CH REGULATION LIMIT WILL REQUIRE A PERMIT FROM CONSERVATION HALTON UNDER ONTARIO REGULATION 162/06

ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS & PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED. SEE DWG. 108 FOR SUMP PUMP DETAIL.

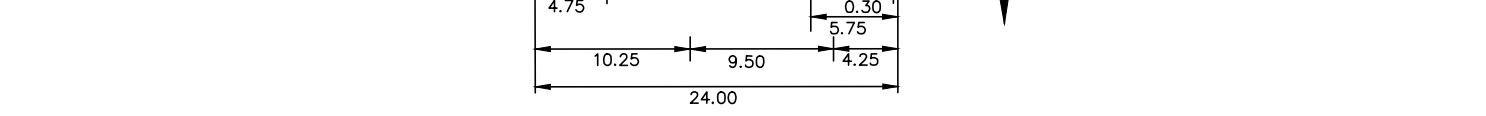
NOTE:
CATCH BASIN LEADS TO BE INSTALLED UNDER WATERMAIN, WHERE POSSIBLE, WITH MINIMUM 0.15m CLEARANCE AT CROSSING WITH WATERMAIN

NOTE:
MINIMUM CLEARANCE BETWEEN HYDRANT AND DRIVEWAY IS 1.0m

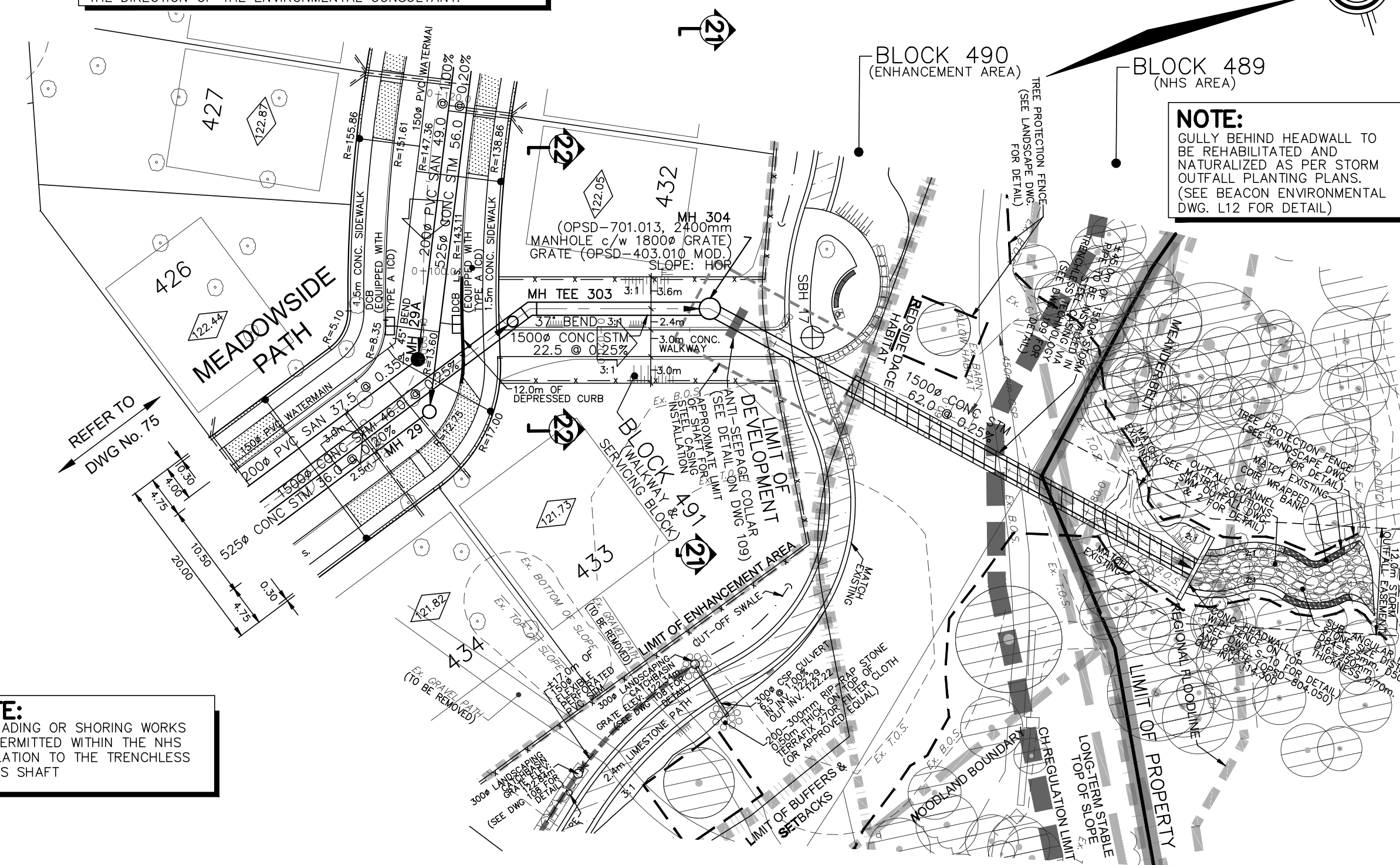
NOTE:
FOR HORIZONTAL CLEARANCE BETWEEN SEWER AND WATERMAIN, INCLUDING SERVICES, LESS THAN 2.5m, 0.50m VERTICAL CLEARANCE IS TO BE PROVIDED BETWEEN TO THE SATISFACTION OF REGION OF HALTON



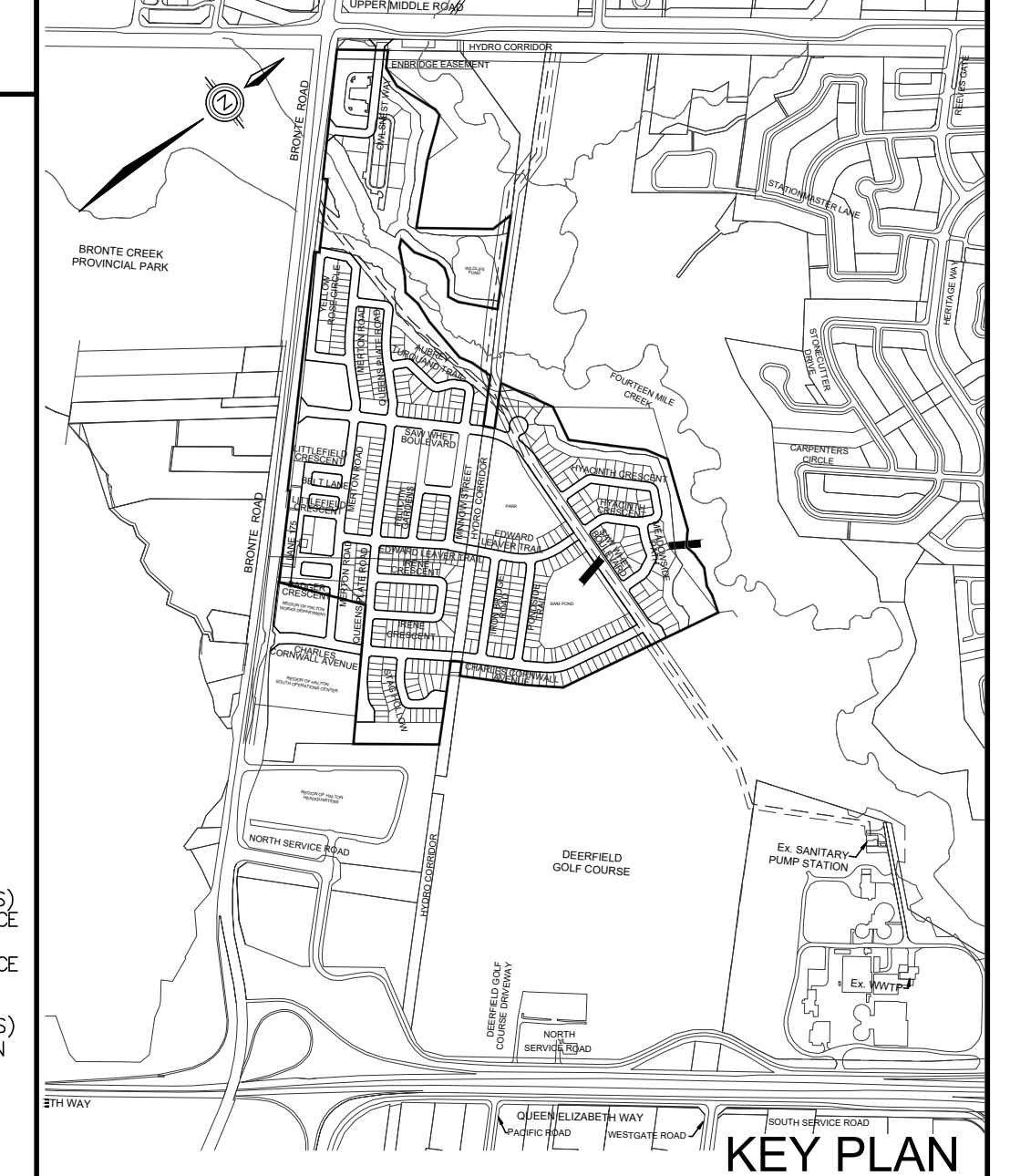
SWM POND
(PP 121.20)



NOTE:
NO GRADING OR SHORING WORKS ARE PERMITTED WITHIN THE NHS IN RELATION TO THE TRENCHLESS ACCESS SHAFT



- LEGEND**
- STORM MANHOLE
 - SANITARY MANHOLE
 - TEE
 - HOUSE CONNECTION
 - DOUBLE STORM
 - HOUSE CONNECTION
 - HOUSE CONNECTION
 - WATER CONNECTION
 - HYDRANT
 - TEE VALVE & CHAMBER
 - SINGLE CATCHBASIN
 - DOUBLE CATCHBASIN
 - HYDRO TRANSFORMER
 - COMMUNITY MAILBOX AND PAD
 - LOCATION (WITH SIDEWALK)
 - ETOX-ENG-08
 - (1) - ONE MODULE
 - (2) - TWO MODULES
 - (3) - THREE MODULES
 - LIGHT STANDARD
 - WOOD ACUSTIC FENCE (HEIGHT AS SPECIFIED)
 - 1.2m HIGH DECORATIVE FENCE (SEE LANDSCAPE DWG. FOR DETAILS)
 - 1.2m HIGH BLACK VINYL CHAIN LINK FENCE (SEE LANDSCAPE DWG. FOR DETAILS)
 - 1.5m HIGH BLACK VINYL CHAIN LINK FENCE (SEE LANDSCAPE DWG. FOR DETAILS)
 - 1.8m HIGH WOOD PRIVACY FENCE (SEE LANDSCAPE DWG. FOR DETAILS)
 - INFERRED TOP OF SHALE ELEVATION PROVIDED BY SOIL ENGINEERS LTD. APRIL 2017
 - PROPOSED OVERLAND FLOW DIRECTION
 - EXTERNAL OVERLAND FLOW DIRECTION
 - UNDERSIDE OF FOOTING ELEVATION (USE)
 - SLAB ON GRADE BLOCKS/UNITS
 - DRIVEWAY WITH CONCRETE APRON (TOWN STD. 10-3)
 - PIPE CROSSING (SEE DWG. 108 FOR DETAIL)
 - TREES TO BE PRESERVED (WITHIN OR ADJACENT TO LIMIT OF SUBDIVISION)
 - TREES TO BE REMOVED (WITHIN OR ADJACENT TO LIMIT OF SUBDIVISION)
 - TRIPLE PROTECTION FENCE
 - TACTILE WARNING SURFACE INDICATOR (REFER TO DWG. 140 FOR DETAIL)
 - NOT PART OF THIS APPROVAL APPLICATION



TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-04, SURVEY DATED AUGUST 09, 2017.
PROJECT No. 12-30-371-05-RPLAN, SURVEY DATED SEPTEMBER 14, 2017.
PROJECT No. 12-30-371-06-RPLAN, SURVEY DATED JANUARY 2, 2018.
PROJECT No. 12-30-371-11-R, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m

ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

NO.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	MOE SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	MOE SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	MOE SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:	W.L.		

SCALE HORIZ. 1:500 0 5 10 15 20
VERT. 1:50 0 0.5 1.0 1.5 2.0

APPROVALS

BELL	<input type="checkbox"/>	HYDRO	<input type="checkbox"/>
GAS	<input type="checkbox"/>	CABLE	<input type="checkbox"/>
TRAFFIC	<input type="checkbox"/>	WATER	<input type="checkbox"/>

REGIONAL APPROVAL

APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY

LEGISLATIVE AND PLANNING SERVICES DATE

STAMP: W. LIU, LICENSED PROFESSIONAL ENGINEER, 100167932, PROVINCE OF ONTARIO

DSEL david schaeffer engineering ltd
600 Alden Road, Suite 500
Markham, Ontario, L3R 0E7
Tel. (905) 475-3080
Fax. (905) 475-3081
www.DSEL.ca

MUNICIPALITY **OAKVILLE** DEVELOPMENT ENGINEERING

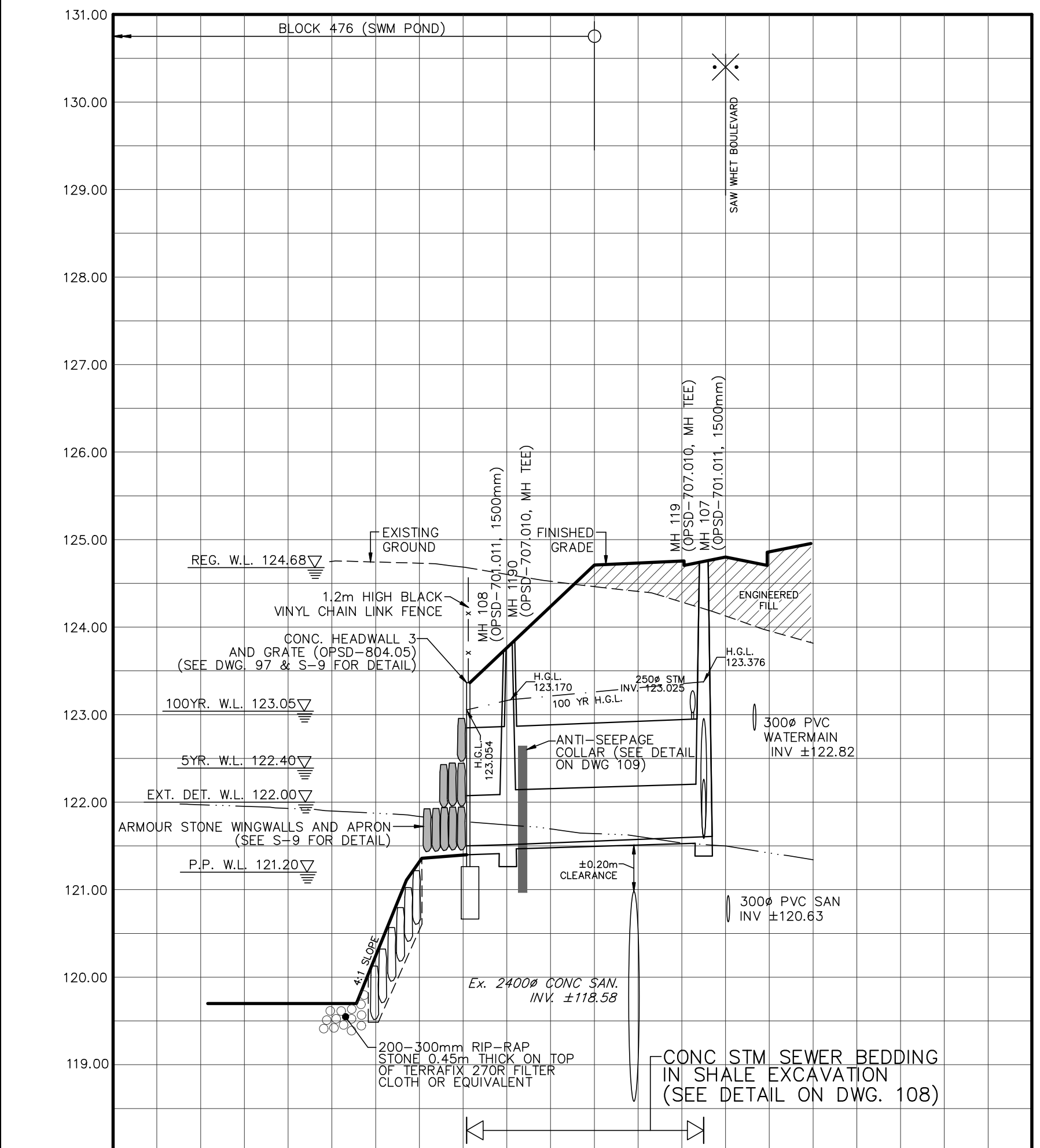
REGION **Halton** The Regional Municipality of Halton

DEVELOPER **BRONTE GREEN CORPORATION**

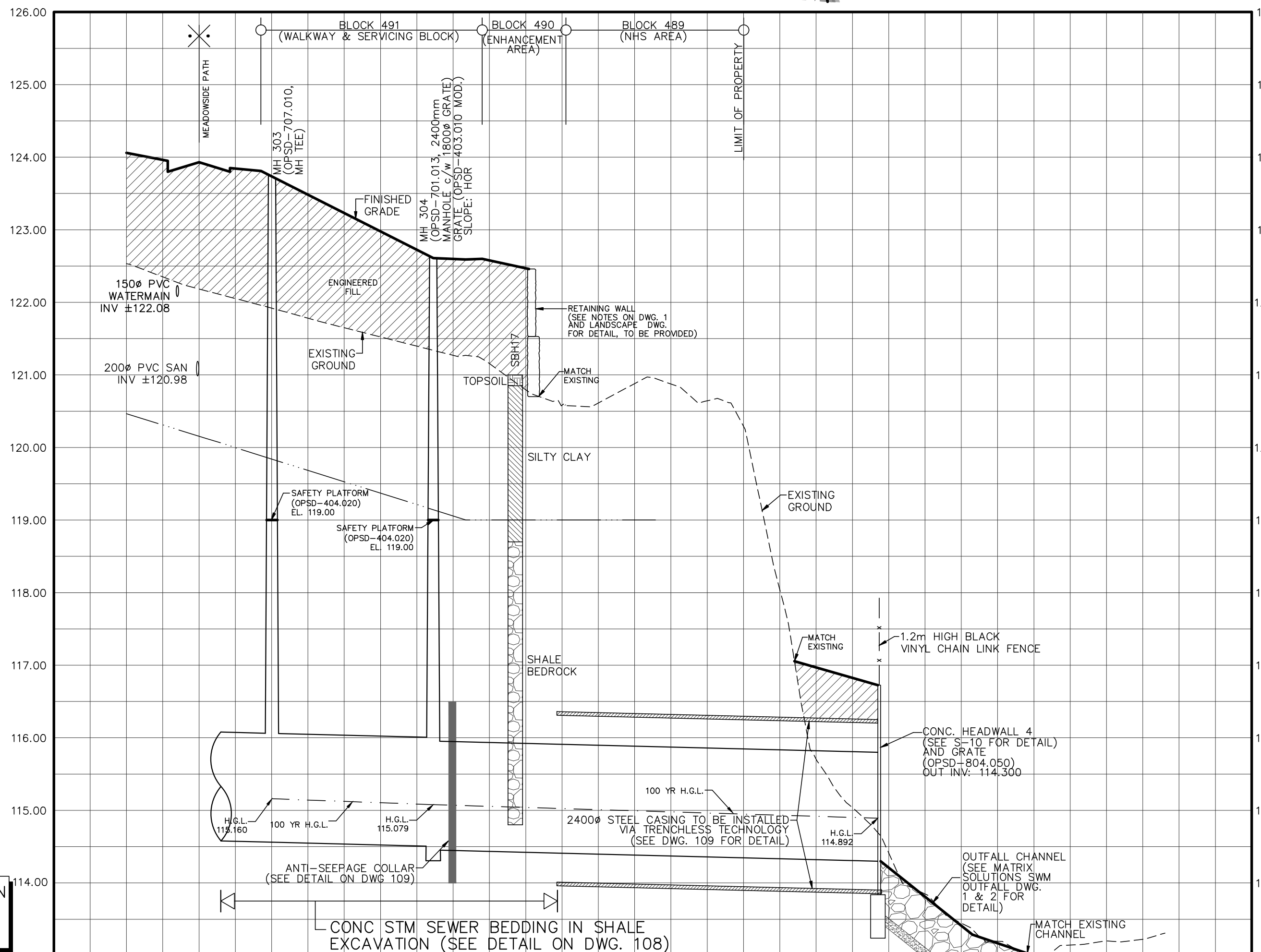
PROJECT **BRONTE GREEN SUBDIVISION**
24T-14004

TITLE **POND INLET 3 & OUTFALL**
(FROM STA. 0+000.000 TO STA. 0+100.000)

MUNICIPAL FILE NO. **SD-XXX.X** REGIONAL FILE NO. **DO-1040**
PROJECT NO. **12-601** SHEET **83** OF **145**

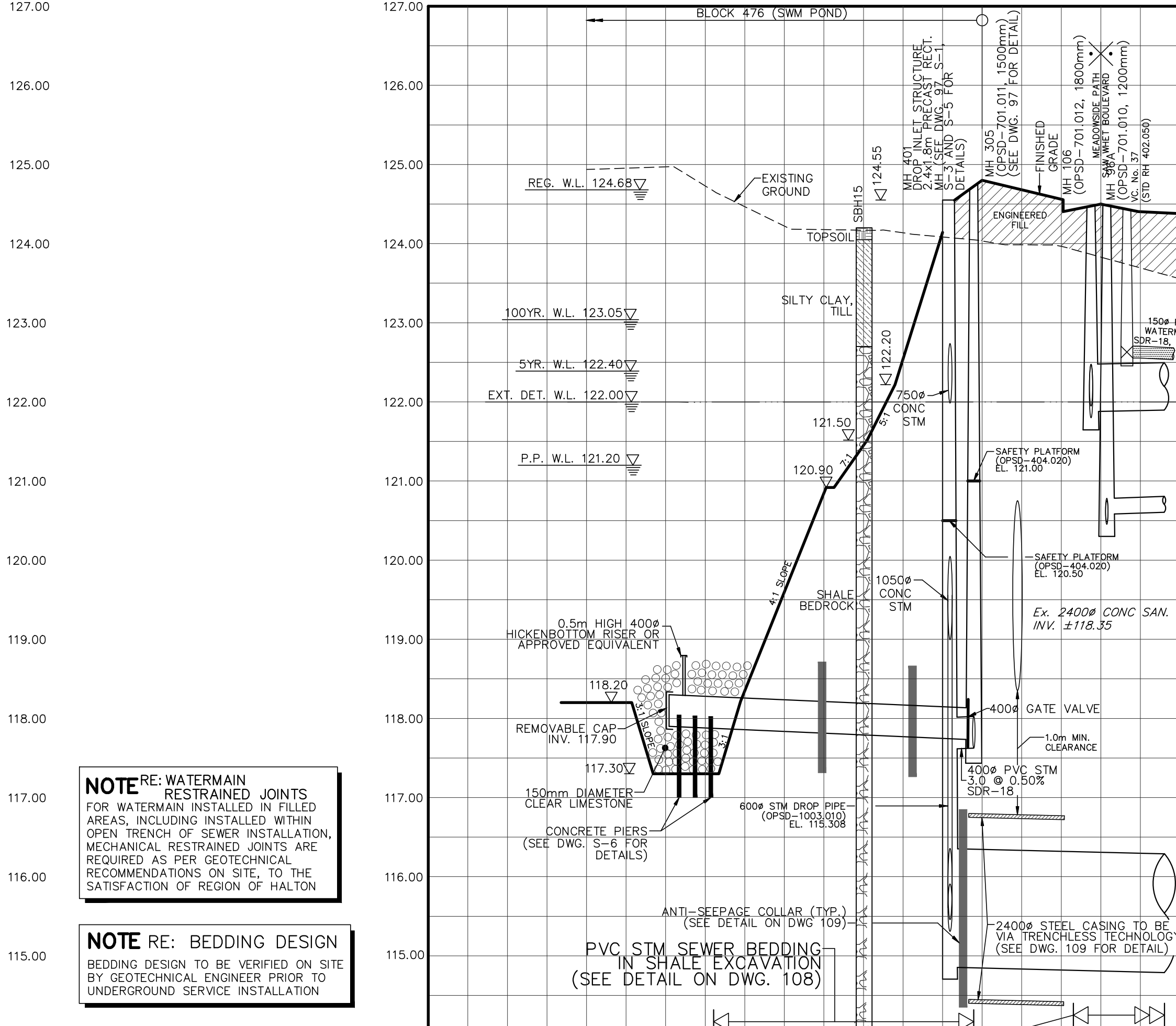
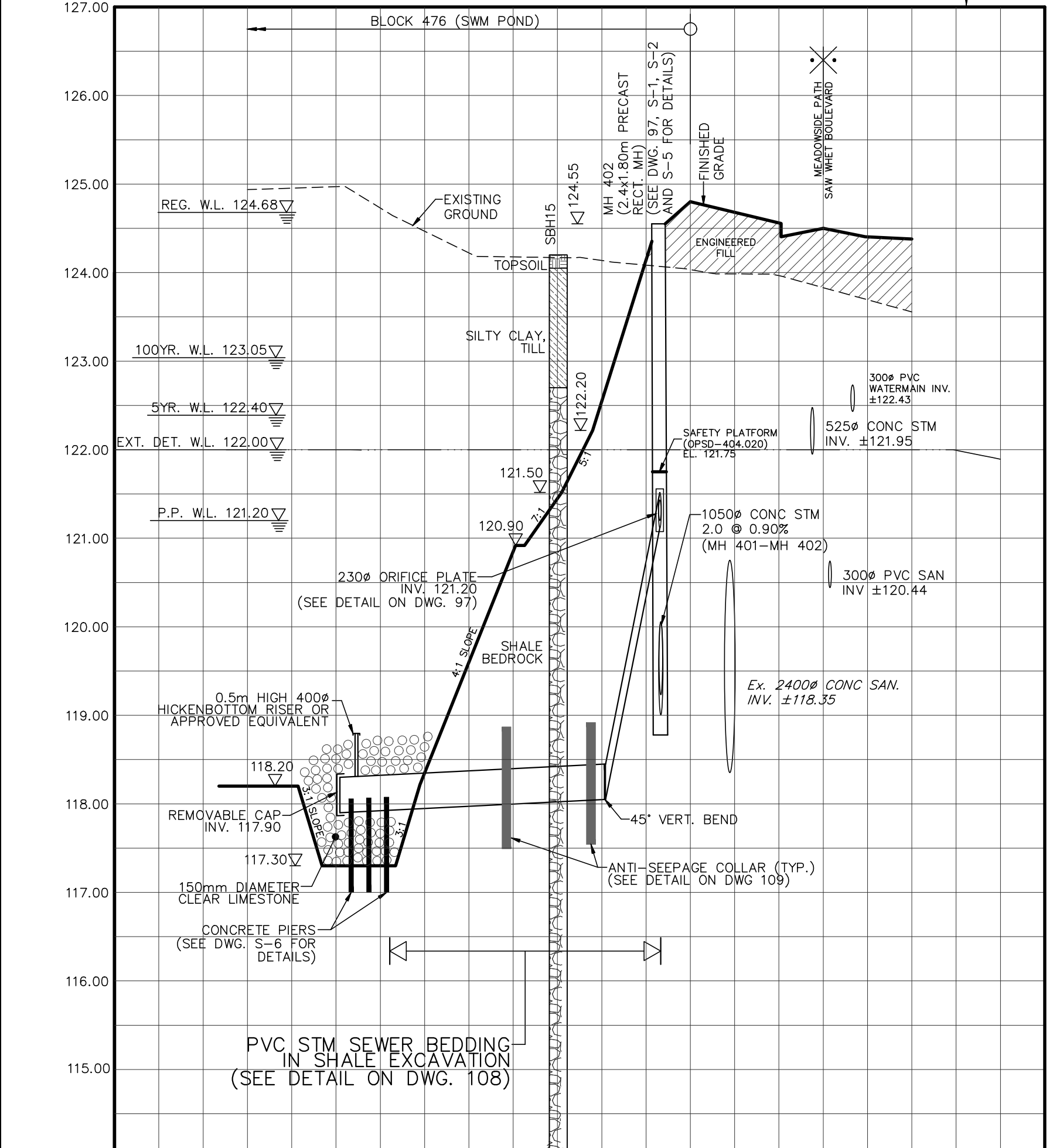
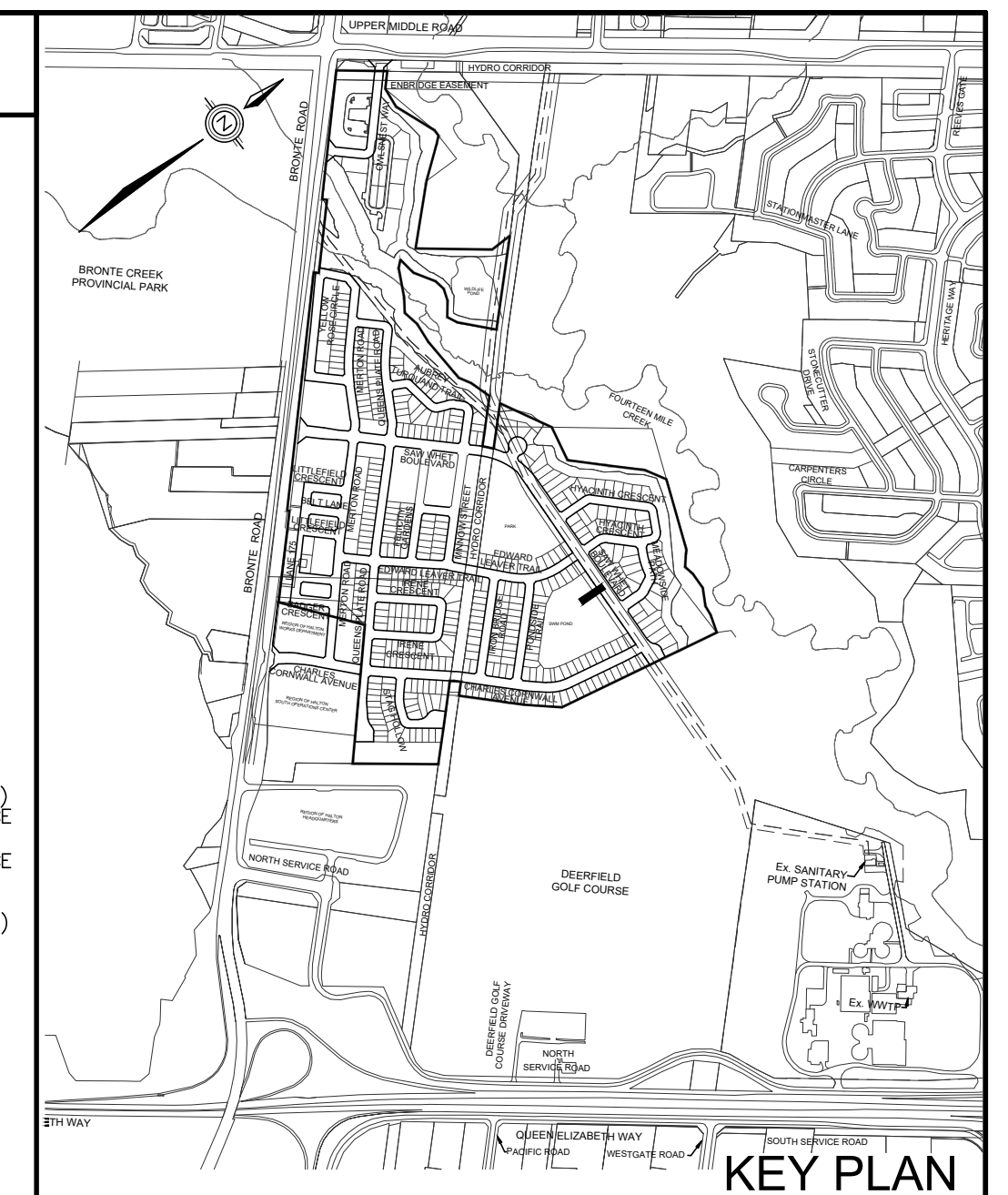
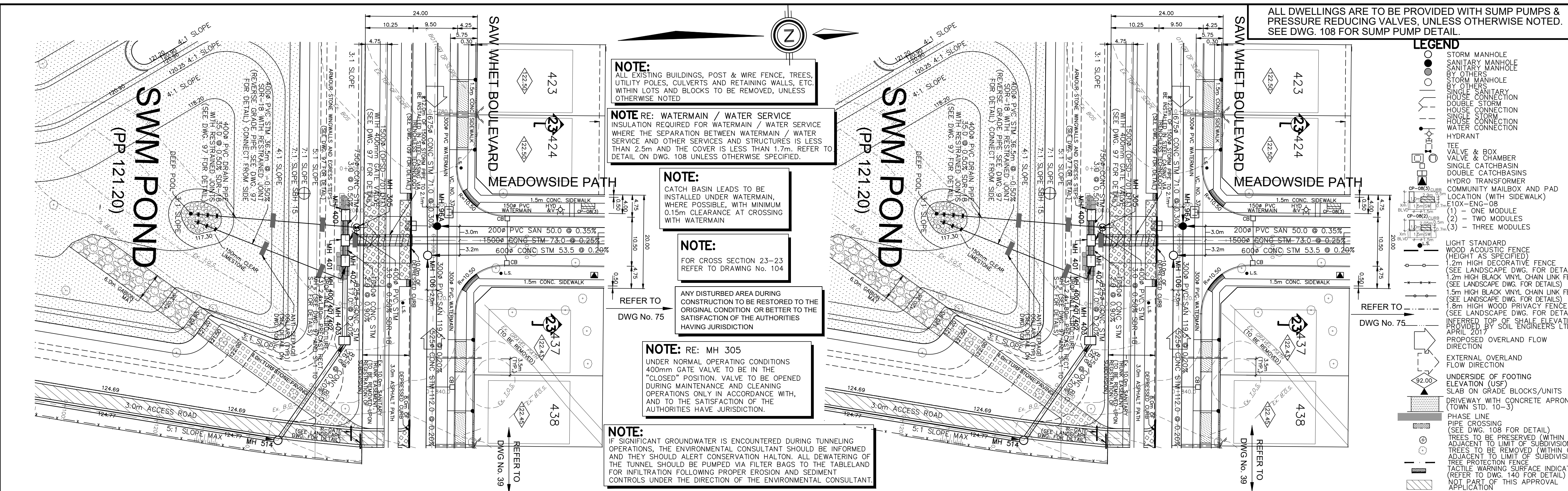


NOTE RE: BEDDING DESIGN
BEDDING DESIGN TO BE VERIFIED ON SITE BY GEOTECHNICAL ENGINEER PRIOR TO UNDERGROUND SERVICE INSTALLATION



STORM INVERT	1350# CONC STM 5.0 @ 0.30% 100-D	1350# CONC STM 29.5 @ 0.30% 100-D	SE 121.604 W 121.604
STORM INVERT	675# CONC STM 4.5 @ 0.30% 100-D	675# CONC STM 23.5 @ 0.30% 100-D	SW 121.534 E 121.584
PROPOSED GRADES			
CENTERLINE CHAINAGE	0+060.000	0+040.000	0+020.000

STORM INVERT	1500# CONC STM 46.0 @ 0.25% 140-D	1500# CONC STM 22.5 @ 0.25% 140-D	SE 114.561 W 114.561	1500# CONC STM 62.0 @ 0.25% 140-D	SW 114.300 E 114.455
PROPOSED GRADES					
CENTERLINE CHAINAGE	0+000.000	0+020.000	0+040.000	0+060.000	0+100.000



SANITARY INVERT	4000 PVC SAN 50.0 @ 0.35% SDR-26	2000 PVC SAN 50.0 @ 0.35% SDR-26	6000 CONC STM 53.5 @ 0.20% 100-D	SANITARY INVERT
STORM INVERT	4000 PVC STM 35.0 @ 0.50% SDR-18 (SEE DWG. 97 FOR DETAIL)	15000 CONC STM 73.0 @ 0.25% 140-D		STORM INVERT
STORM INVERT	4000 PVC STM 35.0 @ 0.50% SDR-18 (SEE DWG. 97 FOR DETAIL)			STORM INVERT
PROPOSED GRADES				PROPOSED GRADES
CENTERLINE CHAINAGE	0+000.000	0+040.000	0+080.000	CENTERLINE CHAINAGE

TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-08, SURVEY DATED AUGUST 09, 2017.
PROJECT No. 12-30-371-09-RPLAN, SURVEY DATED SEPTEMBER 14, 2017.
PROJECT No. 12-30-371-10, SURVEY DATED JANUARY 2, 2018.
PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	MOE SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	MOE SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	MOE SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

APPROVALS

DESIGNED BY: C.M./K.M. CHECKED BY: W.L. DATE: JUNE 2017
DRAWN BY: D.A. REFERENCES: SCALE: HORIZ. 1:500 VERT. 1:50

APPROVALS

REGIONAL APPROVAL: APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS, SPECIFICATIONS & LOCALITIONAL APPROVAL FROM AREA MUNICIPALITY

LEGISLATIVE AND PLANNING SERVICES: DATE

STAMP
LICENSED PROFESSIONAL ENGINEER
W. LIU
100167932
19-07-31
PROVINCE OF ONTARIO

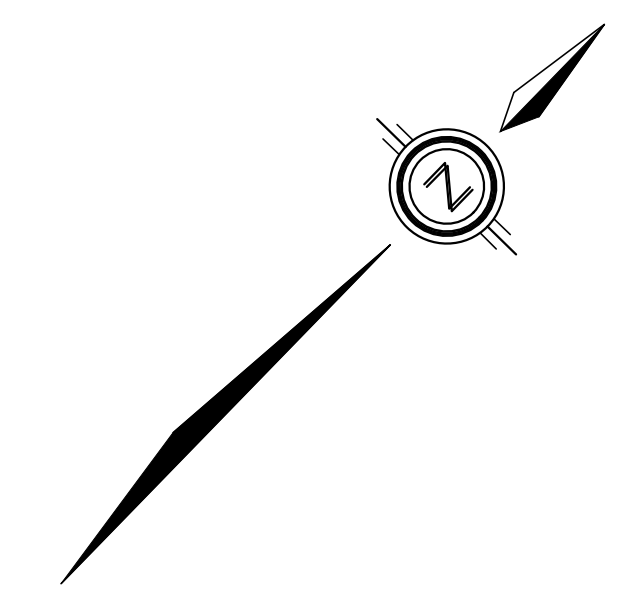
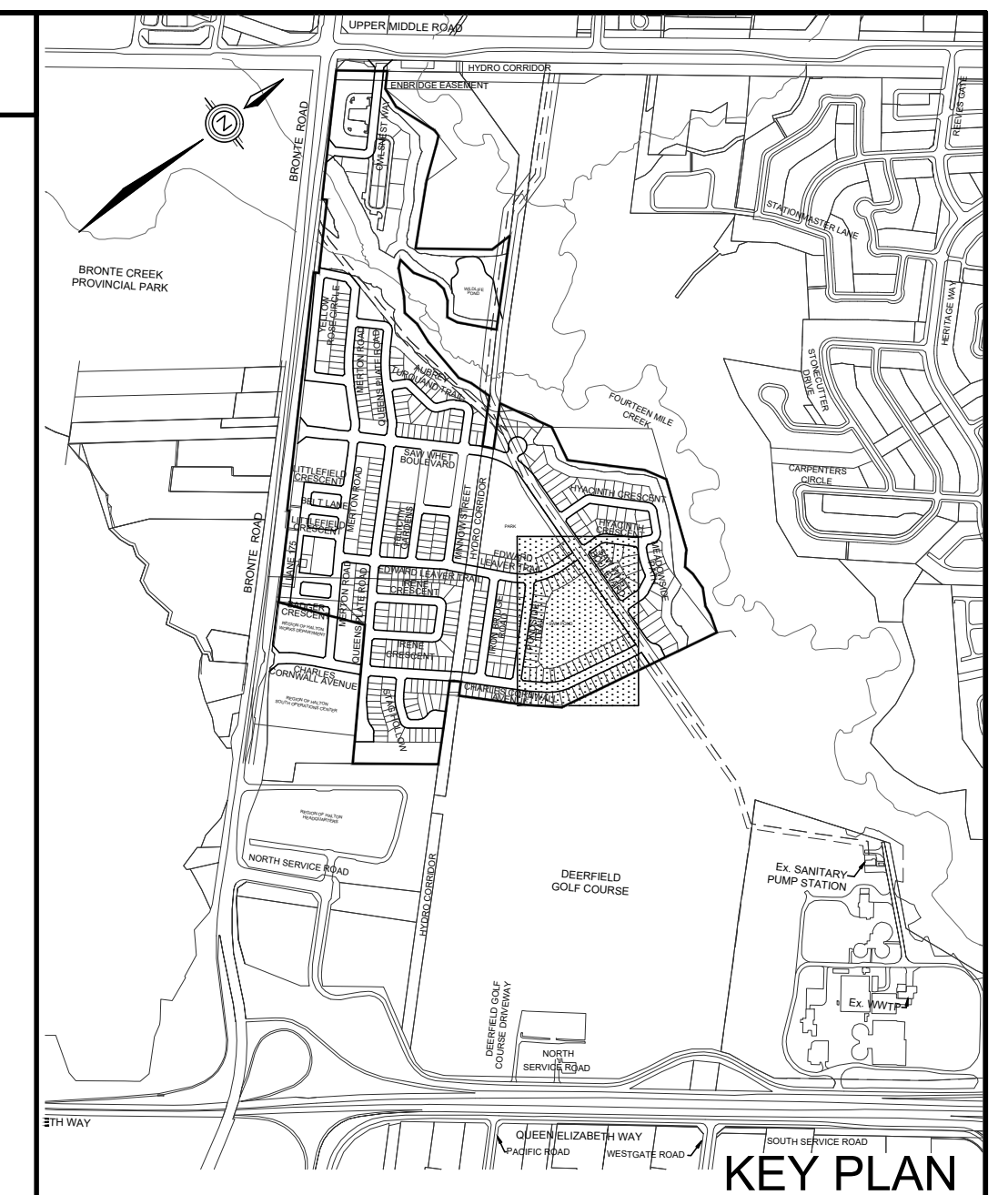
DSEL
david schaeffer engineering ltd
600 Alden Road, Suite 500
Markham, Ontario, L3R 0E7
Tel. (905) 475-3080
Fax. (905) 475-3081
www.DSEL.ca

MUNICIPALITY
OAKVILLE
DEVELOPMENT ENGINEERING

REGION
Halton
The Regional Municipality of Halton

DEVELOPER	BRONTE GREEN CORPORATION	
PROJECT	BRONTE GREEN SUBDIVISION 24T-14004	
TITLE	PLAN AND PROFILE OF POND OUTLET (FROM STA. 0+000.000 TO STA. 0+100.000)	
MUNICIPAL FILE NO.	SD-XXX.X	REGIONAL FILE NO. DO-1040
PROJECT NO.	12-601	SHEET 84 OF 145

ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS & PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED. SEE DWG. 108 FOR SUMP PUMP DETAIL.



NOTE:
ALL EXISTING BUILDINGS, POST & WIRE FENCE, TREES, UTILITY POLES, CULVERTS AND RETAINING WALLS, ETC. WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED

ANY DISTURBED AREA DURING CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION

CONTRACTOR TO VERIFY THE PRECISE LOCATIONS AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION

PERMISSION REQUIRED FOR WORK ON ADJACENT LANDS

NOTE: RE: MH 305
UNDER NORMAL OPERATING CONDITIONS 400mm GATE VALVE TO BE IN THE "CLOSED" POSITION. VALVE TO BE OPENED DURING MAINTENANCE AND CLEANING OPERATIONS ONLY IN ACCORDANCE WITH, AND TO THE SATISFACTION OF THE AUTHORITIES HAVE JURISDICTION.

NOTE:
FOR CROSS SECTIONS A-A, B-B, AND C-C REFER TO DRAWING No. 96.

LEGEND:

- ACCESS ROAD
50mm of SCREENINGS
300mm of 19mm CRUSHER RUN LIMESTONE
- ASPHALT ACCESS ROAD
- PERMANENT POOL - ELEVATION
- TURFSTONE PAVING (SEE DETAIL ON DWG. 97)
- GABION MAT (SEE DETAIL ON DWG. 97)
- 210.18 EXISTING ELEVATION
- 210.71 PROPOSED ELEVATION
- (197.95) FUTURE ELEVATION
- 210.00 CONTOUR ELEVATION
- OVERLAND FLOW DIRECTION
- 211.90 FRONT HOUSE GRADE
- 212.16 SPECIFIED HOUSE GRADE
- 212.13 MIN. UNDER SIDE OF FOOTING ELEVATION
- REAR HOUSE GRADE
- EXTERNAL OVERLAND FLOW DIRECTION
- PHASE LINE
- NOT PART OF THIS APPROVAL APPLICATION

POND VOLUMES & DRAWDOWN TIMES (FREE OUTFALL CONDITIONS)

STORM EVENT	POND ELEV (m)	VOLUME USED (m³)	DRAWDOWN (days)
PERM. POOL	121.20	11180	-
EXT. DET.	122.00	8137	1.75
2-YEAR	122.16	9994	1.93
5-YEAR	122.40	12821	2.18
10-YEAR	122.55	14710	2.34
25-YEAR	122.75	17233	2.53
50-YEAR	122.89	19023	2.66
100-YEAR	123.05	20922	2.79
REGIONAL	124.68	44370	-



TOPOGRAPHIC INFORMATION

TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION

CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-09-RPLAN, SURVEY DATED SEPTEMBER 14, 2017.
PROJECT No. 12-30-371-11, SURVEY DATED JANUARY 2, 2018.
PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

BENCHMARK No. 101 ELEVATION = 115.838m

ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11	19-06-21	W.L.	MOE SUBMISSION 2 AMENDMENT	
10	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9	19-03-13	W.L.	MOE SUBMISSION 2	
8	19-02-12	W.L.	4th SUBMISSION TO REGION	
7	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4	18-09-12	W.L.	MOE SUBMISSION	
3	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2	18-03-23	W.L.	2nd SUBMISSION	

APPROVALS

MUNICIPAL APPROVAL

APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS

MANAGER OF DEVELOPMENT ENGINEERING _____ DATE _____

REGIONAL APPROVAL

APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCATIONAL APPROVAL FROM AREA MUNICIPALITY

LEGISLATIVE AND PLANNING SERVICES _____ DATE _____

STAMP: LICENSED PROFESSIONAL ENGINEER W. LIU 100167932 19-07-18 PROVINCE OF ONTARIO

DSEL david schaeffer engineering ltd
600 Alden Road, Suite 500
Markham, Ontario, L3R 0E7
Tel. (905) 475-3080
Fax. (905) 475-3081
www.DSEL.ca

MUNICIPALITY OF **OAKVILLE** DEVELOPMENT ENGINEERING

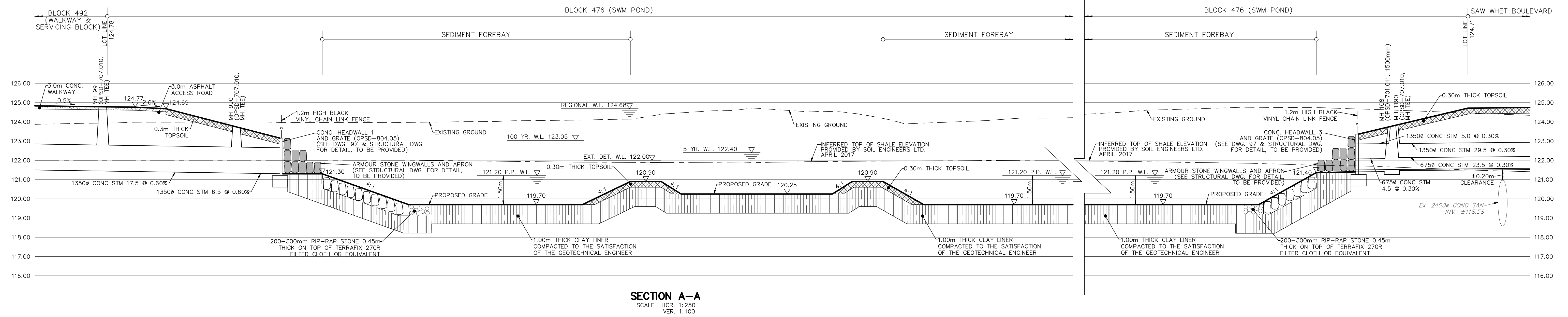
REGION OF **Halton** The Regional Municipality of Halton

DEVELOPER **BRONTE GREEN CORPORATION**

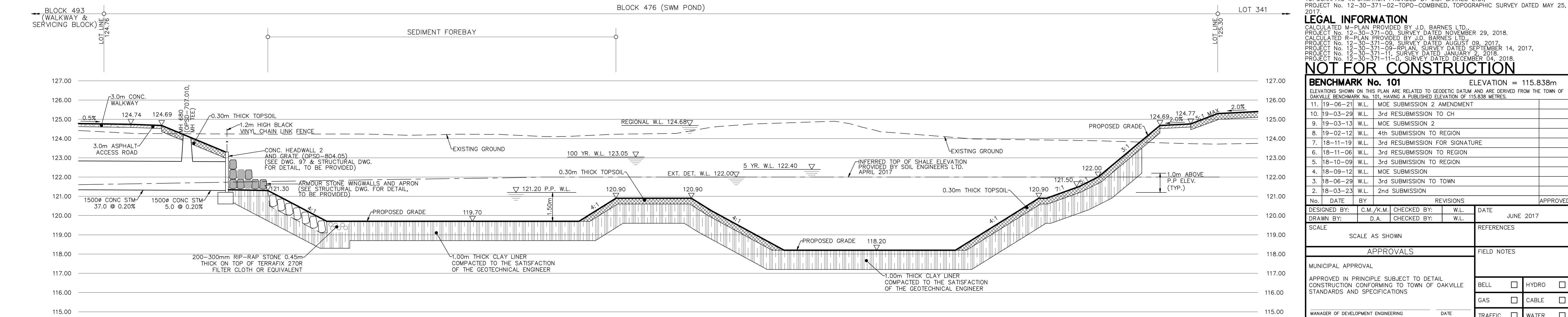
PROJECT **BRONTE GREEN SUBDIVISION**
24T-14004

TITLE **SWM POND 1** © DSEL

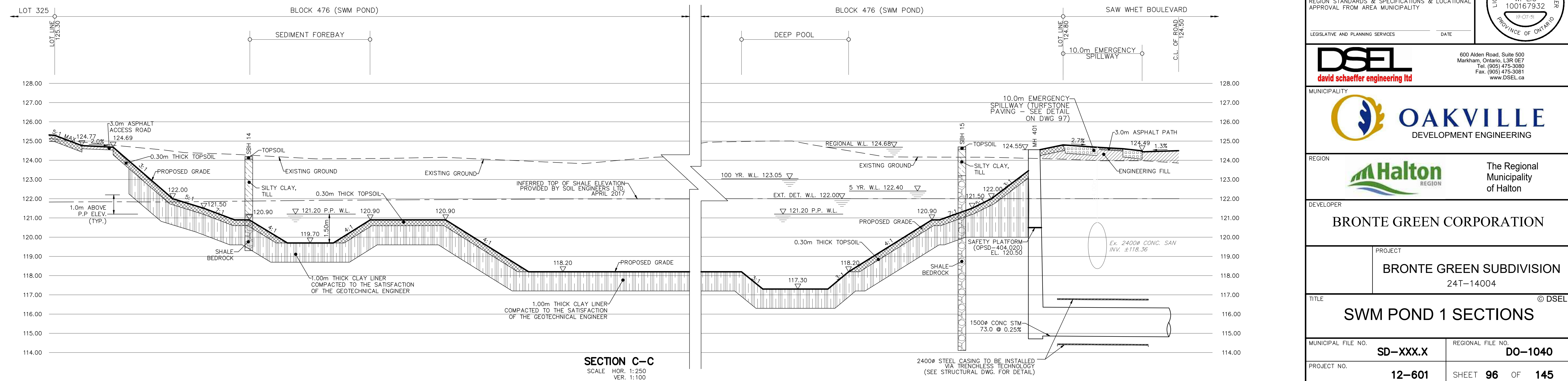
MUNICIPAL FILE NO. **SD-XXX.X** REGIONAL FILE NO. **DO-1040**
PROJECT NO. **12-601** SHEET **95** OF **145**



SECTION A-A
SCALE HOR: 1:250
VER: 1:100



SECTION B-B
SCALE HOR: 1:250
VER: 1:100



SECTION C-C
SCALE HOR: 1:250
VER: 1:100

TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPG-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-09, SURVEY DATED AUGUST 09, 2017.
PROJECT No. 12-30-371-11, SURVEY DATED SEPTEMBER 14, 2017.
PROJECT No. 12-30-371-11-B, SURVEY DATED JANUARY 2, 2018.
PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

NO.	DATE	BY	REVISIONS	APPROVED
11	19-06-21	W.L.	MOE SUBMISSION 2 AMENDMENT	
10	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9	19-03-13	W.L.	MOE SUBMISSION 2	
8	19-02-12	W.L.	4th SUBMISSION TO REGION	
7	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4	18-09-12	W.L.	MOE SUBMISSION	
3	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:	W.L.		

SCALE AS SHOWN	REFERENCES
----------------	------------

APPROVALS	FIELD NOTES
-----------	-------------

MUNICIPAL APPROVAL	APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS	BELL <input type="checkbox"/>	HYDRO <input type="checkbox"/>
		GAS <input type="checkbox"/>	CABLE <input type="checkbox"/>
MANAGER OF DEVELOPMENT ENGINEERING	DATE	TRAFFIC <input type="checkbox"/>	WATER <input type="checkbox"/>

REGIONAL APPROVAL
APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCATIONAL APPROVAL FROM AREA MUNICIPALITY



DSEL david schaeffer engineering ltd
600 Alden Road, Suite 500
Markham, Ontario, L3R 0E7
Tel. (905) 475-3080
Fax. (905) 475-3081
www.DSEL.ca

MUNICIPALITY
OAKVILLE
DEVELOPMENT ENGINEERING

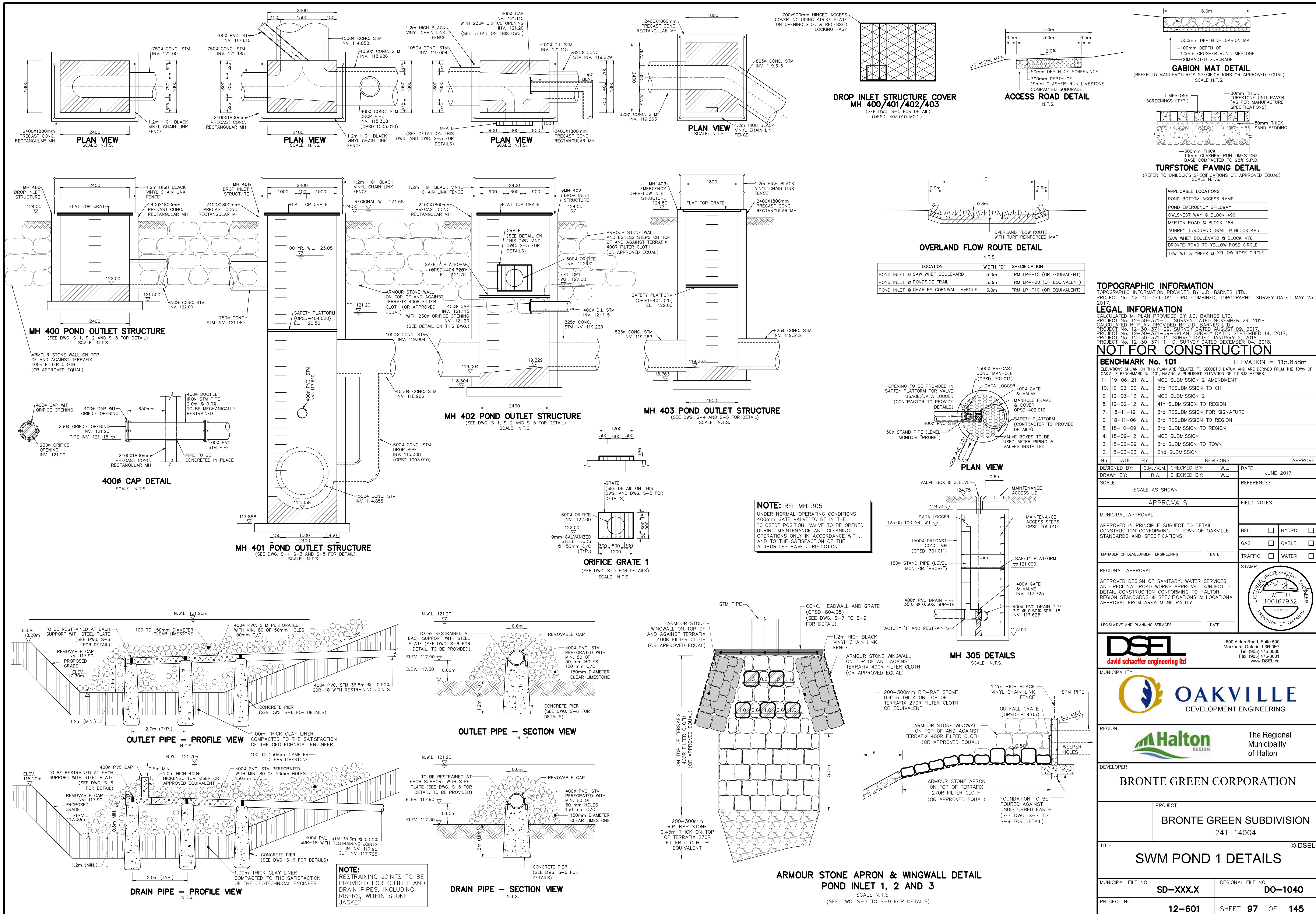
REGION
Halton REGION
The Regional Municipality of Halton

DEVELOPER
BRONTE GREEN CORPORATION

PROJECT
BRONTE GREEN SUBDIVISION
24T-14004

TITLE
SWM POND 1 SECTIONS © DSEL

MUNICIPAL FILE NO. SD-XXX.X	REGIONAL FILE NO. DO-1040
PROJECT NO. 12-601	SHEET 96 OF 145



LOCATION	WIDTH "D"	SPECIFICATION
POND INLET @ SAW WHET BOULEVARD	3.0m	TRM LP-P10 (OR EQUIVALENT)
POND INLET @ PONDSIDE TRAIL	3.0m	TRM LP-P20 (OR EQUIVALENT)
POND INLET @ CHARLES CORNWALL AVENUE	3.0m	TRM LP-P10 (OR EQUIVALENT)

TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
 CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018. CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-09, SURVEY DATED AUGUST 09, 2017. PROJECT No. 12-30-371-11-RPLAN, SURVEY DATED SEPTEMBER 14, 2017. PROJECT No. 12-30-371-11-RPLAN, SURVEY DATED JANUARY 9, 2018. PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

NO.	DATE	BY	REVISIONS	APPROVED
11	19-06-21	W.L.	M.OE SUBMISSION 2 AMENDMENT	
10	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9	19-03-13	W.L.	M.OE SUBMISSION 2	
8	19-02-12	W.L.	4th SUBMISSION TO REGION	
7	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4	18-09-12	W.L.	M.OE SUBMISSION	
3	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE
	D.A.			JUNE 2017

SCALE	REFERENCES
SCALE AS SHOWN	

APPROVALS	FIELD NOTES
MUNICIPAL APPROVAL	
APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>
REGIONAL APPROVAL	STAMP
APPROVED DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL TOWN APPROVAL FROM AREA MUNICIPALITY	
LEGISLATIVE AND PLANNING SERVICES	DATE

DSEL
 david schaeffer engineering ltd
 600 Alden Road, Suite 500
 Markham, Ontario, L3R 0E7
 Tel. (905) 475-3080
 Fax. (905) 475-3081
 www.DSEL.ca

OAKVILLE
 DEVELOPMENT ENGINEERING

Halton REGION
 The Regional Municipality of Halton

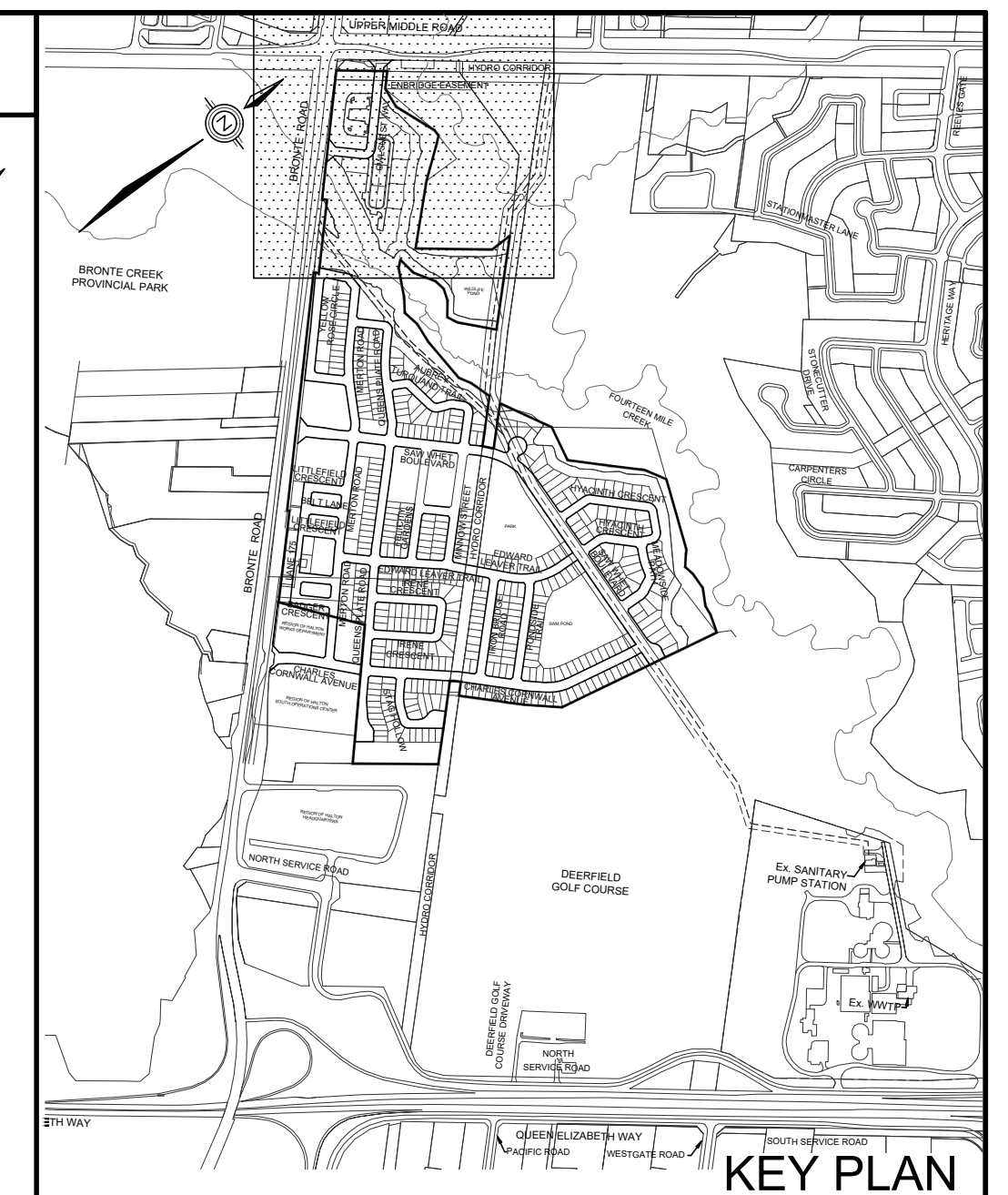
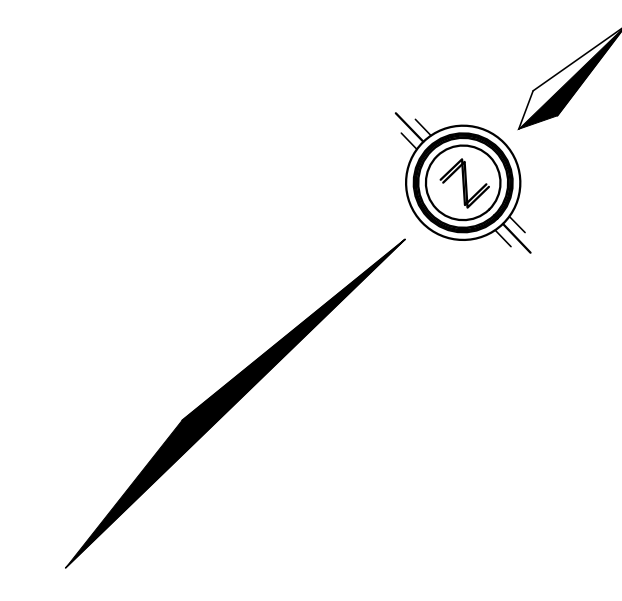
DEVELOPER
BRONTE GREEN CORPORATION

PROJECT
BRONTE GREEN SUBDIVISION
 24T-14004

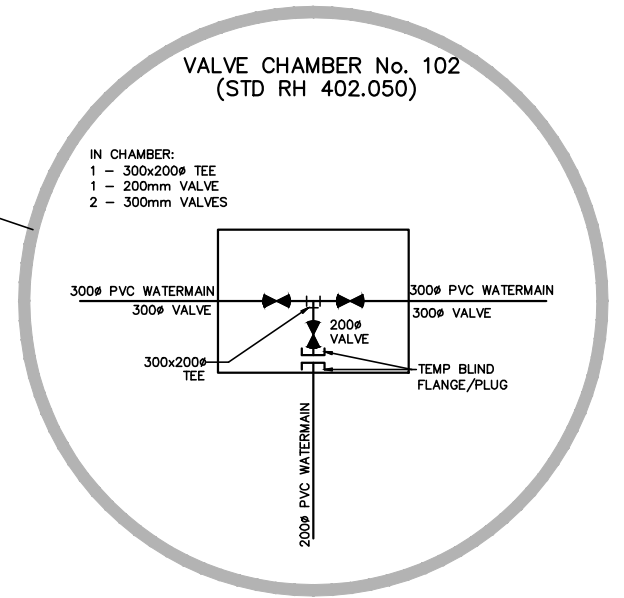
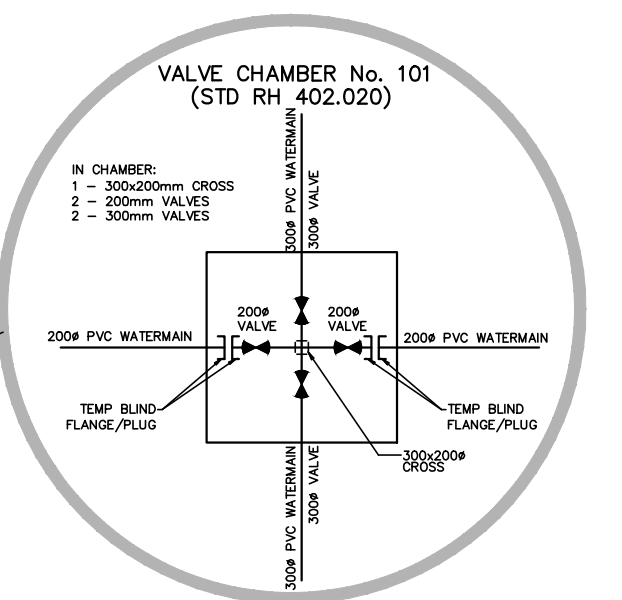
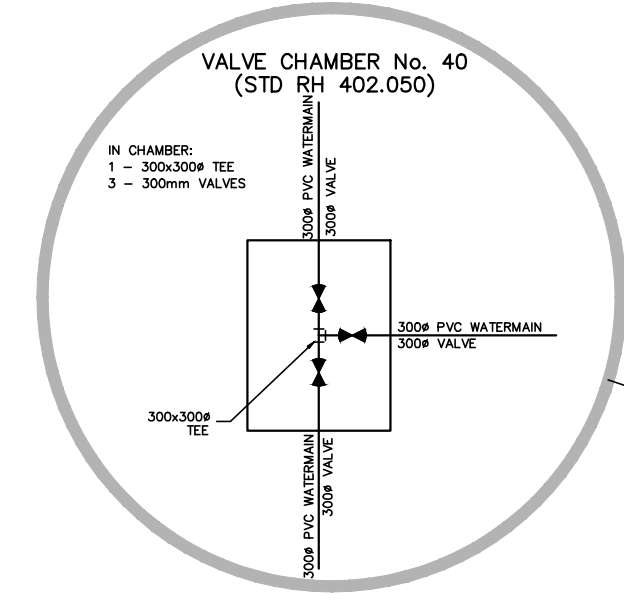
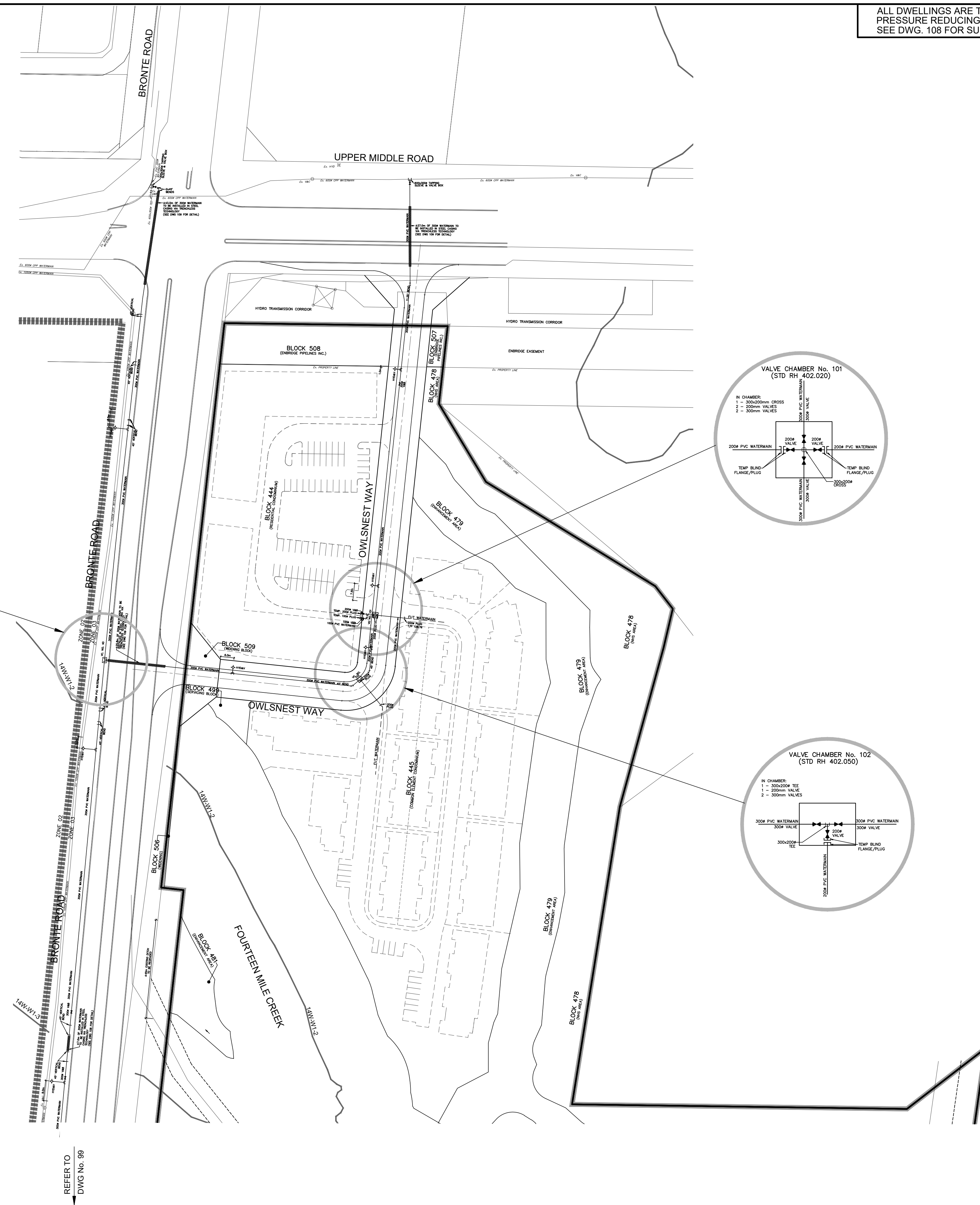
TITLE
SWM POND 1 DETAILS

MUNICIPAL FILE NO.	REGIONAL FILE NO.
SD-XXX.X	DO-1040
PROJECT NO.	SHEET
12-601	97 OF 145

ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS & PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED. SEE DWG. 108 FOR SUMP PUMP DETAIL.



- LEGEND**
- WATER CONNECTION
 - ◇ HYDRANT
 - TEE
 - VALVE & BOX
 - CURB STOP SERVICE
 - ◻ VALVE & CHAMBER
 - ▨ PHASE LINE
 - NOT PART OF THIS APPROVAL APPLICATION



NOTE RE: WORKS WITHIN BRONTE ROAD
 PROPOSED WATERMAIN WITHIN ROW OF BRONTE ROAD TO BE CONSTRUCTED AS PER THE FOLLOWING:
 1. WATERMAIN TO BE CONSTRUCTED IN VERTICAL TRENCH AND BACKFILLED WITH UNSHRINKABLE FILL.
 2. CONTRACTOR TO VERIFY THE PRECISE LOCATIONS AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION.
 3. ANY DISTURBED AREAS TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER.
 4. DISTURBED EX. CURB AND SIDEWALK WITHIN THE WORKING ZONE TO BE REINSTALLED AS PER OPSD 600.040 AND 310.010, RESPECTIVELY.
 5. ALL REMOVED ASPHALT PAVEMENT, SIDEWALK OR CURB TO BE DEPOSITED OFF SITE.
 6. ALL WORKS INCLUDING REMOVAL AND RESTORATION TO THE SATISFACTION OF AUTHORITIES HAVING JURISDICTION.

NOTE
 ALL VALVES TO BE CAST IRON EPOXY COATED

NOTE RE: PRESSURE REDUCING VALVES
 FUTURE UNITS ON BLOCK 444 (RESIDENTIAL CONDOMINIUM) AND BLOCK 445 (COMMON ELEMENTS CONDOMINIUM) TO BE EQUIPPED WITH PRESSURE REDUCING VALVES. DETAILS TO BE CONFIRMED DURING FUTURE DESIGN STAGE.

TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
 CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
 CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-09, SURVEY DATED AUGUST 09, 2017.
 PROJECT No. 12-30-371-11, SURVEY DATED JANUARY 14, 2017.
 PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	MOE SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	MOE SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	MOE SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:	W.L.		

SCALE	HORIZ. 1:1000	0 10 20 30 40	REFERENCES
-------	---------------	---------------	------------

APPROVALS		FIELD NOTES	
MUNICIPAL APPROVAL		BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>	
APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS		GAS <input type="checkbox"/> CABLE <input type="checkbox"/>	
MANAGER OF DEVELOPMENT ENGINEERING		TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>	



DSEL
 david schaeffer engineering ltd
 600 Alden Road, Suite 500
 Markham, Ontario, L3R 0E7
 Tel. (905) 475-3080
 Fax. (905) 475-3081
 www.DSEL.ca

MUNICIPALITY

OAKVILLE
 DEVELOPMENT ENGINEERING

REGION

 The Regional Municipality of Halton

DEVELOPER
BRONTE GREEN CORPORATION

PROJECT
BRONTE GREEN SUBDIVISION
 24T-14004

TITLE
WATERMAIN LAYOUT © DSEL

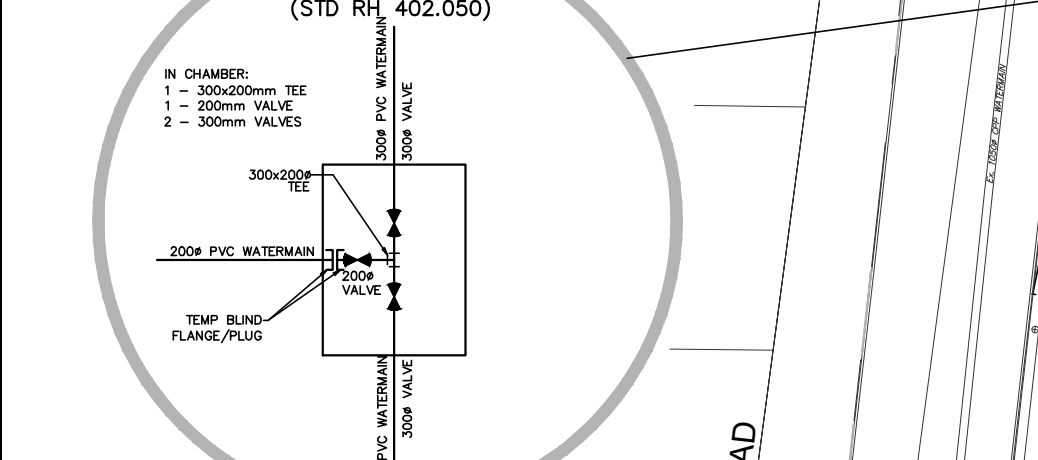
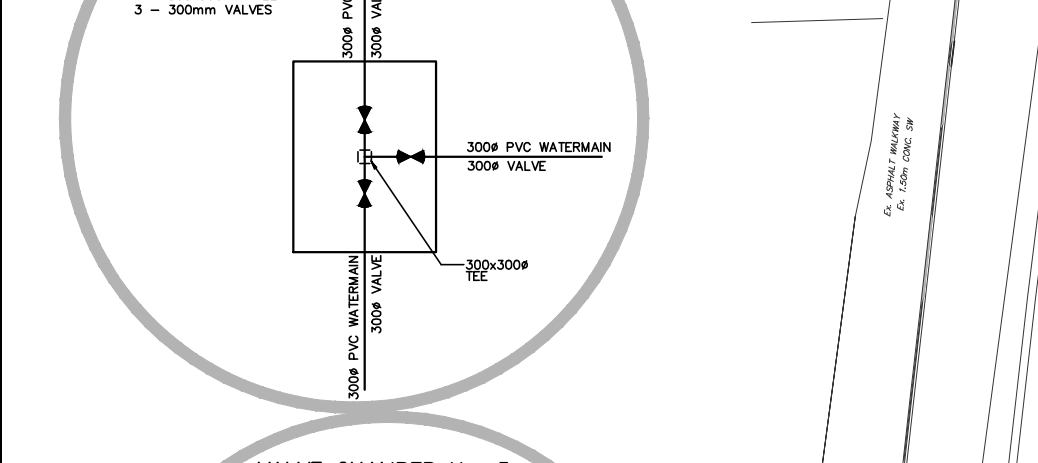
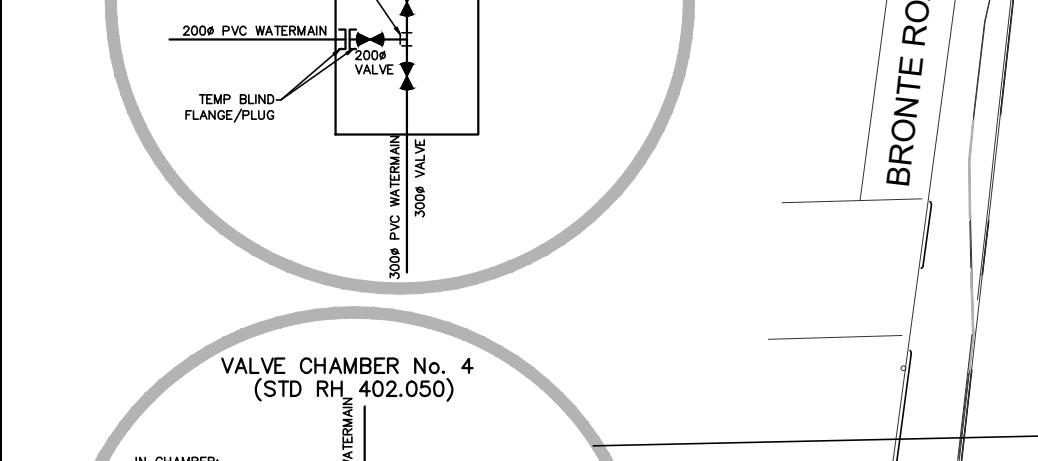
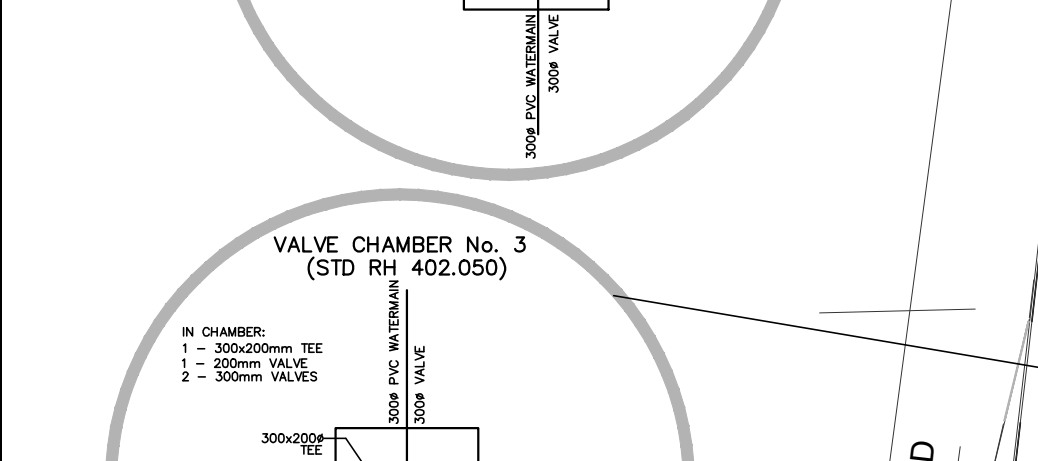
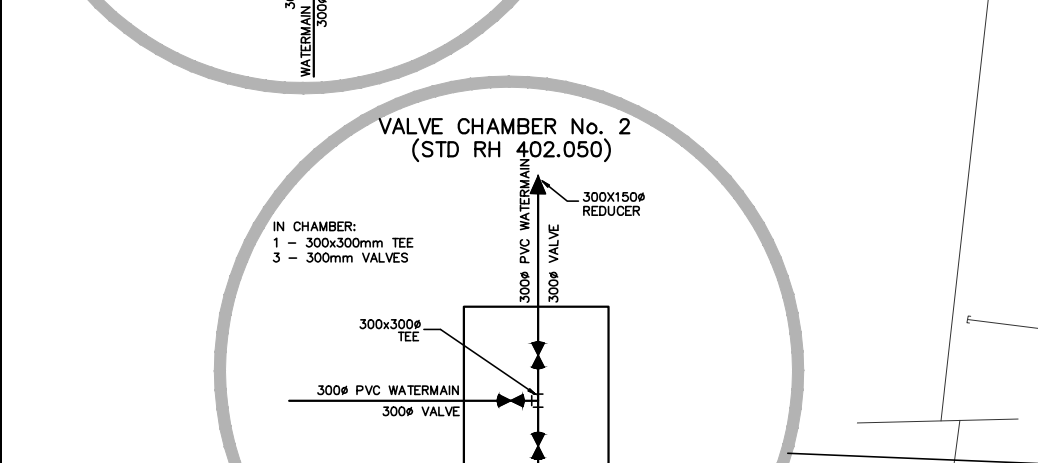
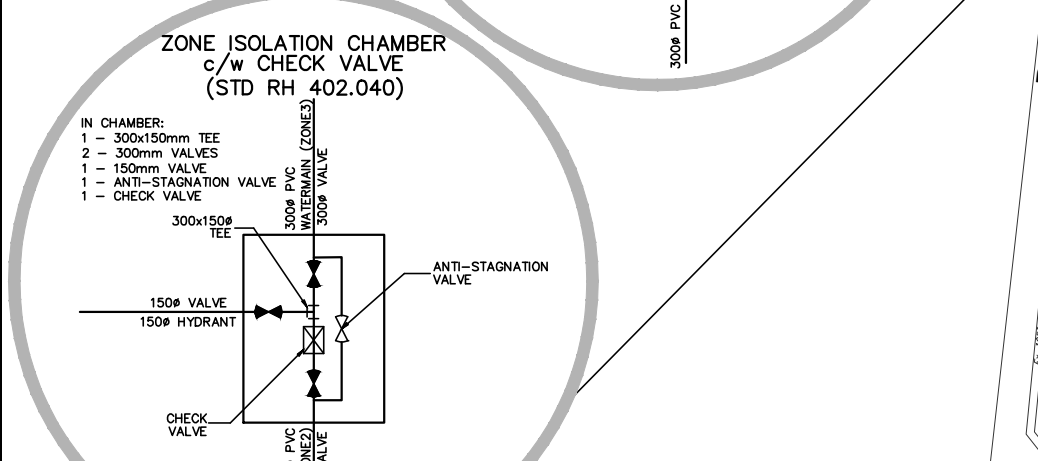
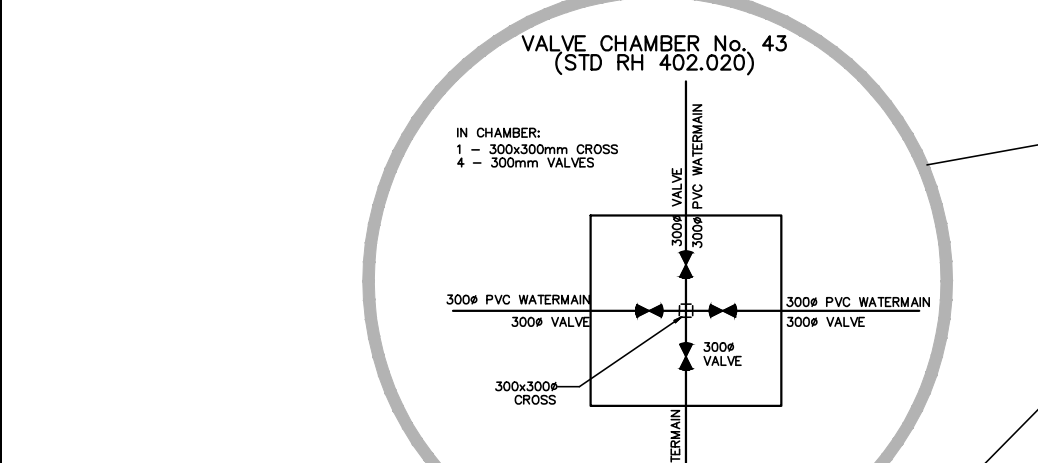
MUNICIPAL FILE NO. **SD-XXX.X** REGIONAL FILE NO. **DO-1040**

PROJECT NO. **12-601** SHEET **98** OF **145**

NOTE RE: WORKS WITHIN BRONTE ROAD

PROPOSED WATERMAIN WITHIN ROW OF BRONTE ROAD TO BE CONSTRUCTED AS PER THE FOLLOWING:

1. WATERMAIN TO BE CONSTRUCTED IN VERTICAL TRENCH AND BACKFILLED WITH UNSHRINKABLE FILL.
2. CONTRACTOR TO VERIFY THE PRECISE LOCATIONS AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION.
3. ANY DISTURBED AREAS TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER.
4. DISTURBED EX. CURB AND SIDEWALK WITHIN THE WORKING ZONE TO BE REINSTALLED AS PER OPSD 600.040 AND 310.010, RESPECTIVELY.
5. ALL REMOVED ASPHALT PAVEMENT, SIDEWALK OR CURB TO BE DEPOSITED OFF SITE.
6. ALL WORKS INCLUDING REMOVAL AND RESTORATION TO THE SATISFACTION OF AUTHORITIES HAVING JURISDICTION.

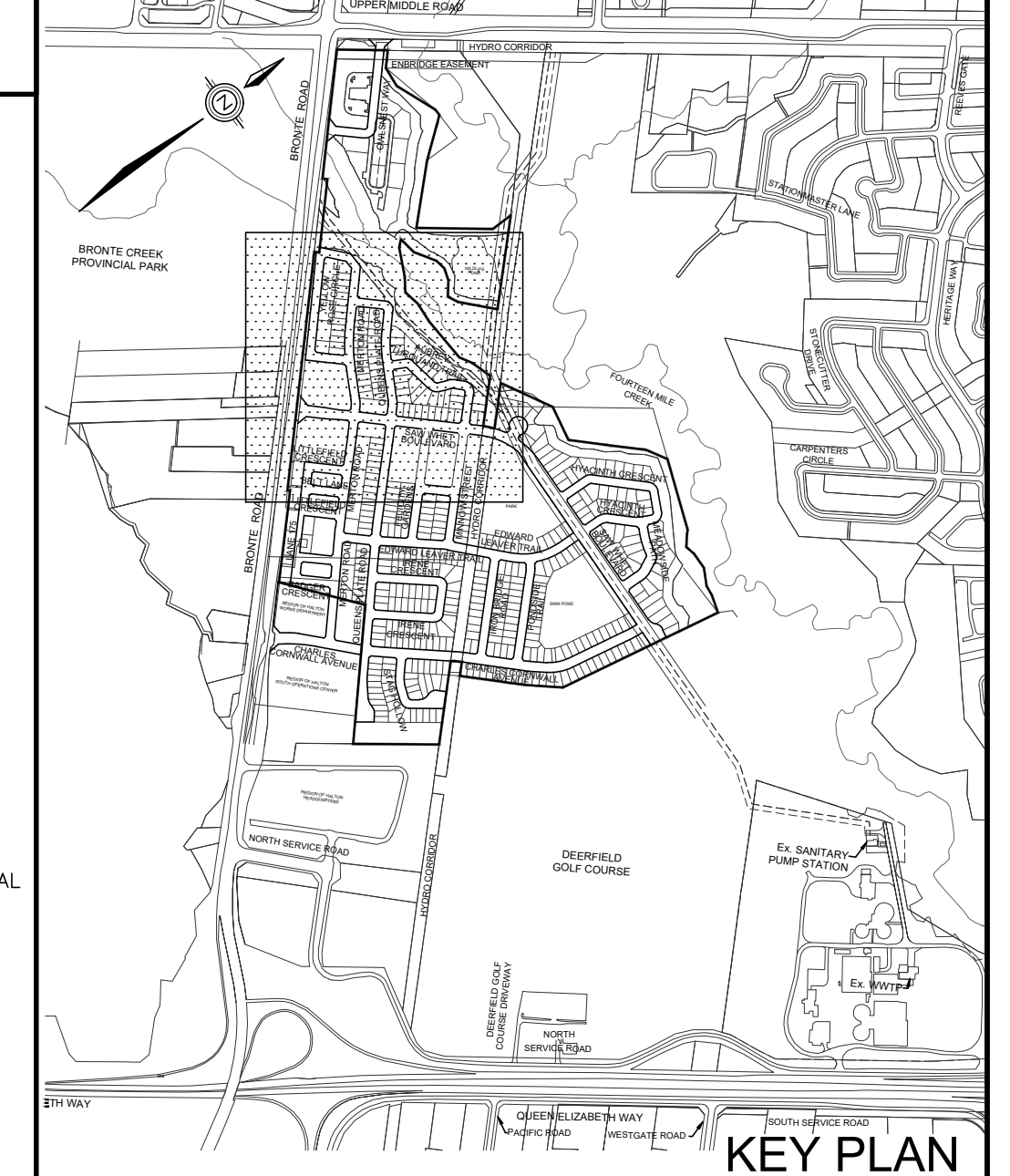
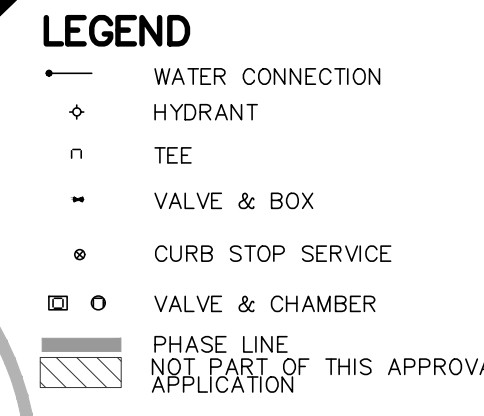


NOTE
ALL VALVES TO BE CAST IRON EPOXY COATED

NOTE RE: PRESSURE REDUCING VALVES
FUTURE UNITS ON BLOCK 451 & 452 (RESIDENTIAL CONDOMINIUM) TO BE EQUIPPED WITH PRESSURE REDUCING VALVES. DETAILS TO BE CONFIRMED DURING FUTURE DESIGN STAGE.



ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS & PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED. SEE DWG. 108 FOR SUMP PUMP DETAIL.



TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOP0-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., SURVEY DATED NOVEMBER 29, 2018.
CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., SURVEY DATED AUGUST 09, 2017.
PROJECT No. 12-30-371-09-RPLAN, SURVEY DATED SEPTEMBER 14, 2017.
PROJECT No. 12-30-371-11, SURVEY DATED JANUARY 2, 2018.
PROJECT No. 12-30-371-11-D, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m
ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	M.O.E SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	M.O.E SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	M.O.E SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:	W.L.		

SCALE	HORIZ. 1:1000	0	10	20	30	40	REFERENCES

MUNICIPAL APPROVAL	APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS	DATE	MANAGER OF DEVELOPMENT ENGINEERING

STAMP	FIELD NOTES
	<input type="checkbox"/> BELL <input type="checkbox"/> HYDRO <input type="checkbox"/> GAS <input type="checkbox"/> CABLE <input type="checkbox"/> TRAFFIC <input type="checkbox"/> WATER

DSEL david schaeffer engineering ltd
600 Alden Road, Suite 500
Markham, Ontario, L3R 0E7
Tel. (905) 475-3080
Fax. (905) 475-3081
www.DSEL.ca

MUNICIPALITY
OAKVILLE
DEVELOPMENT ENGINEERING

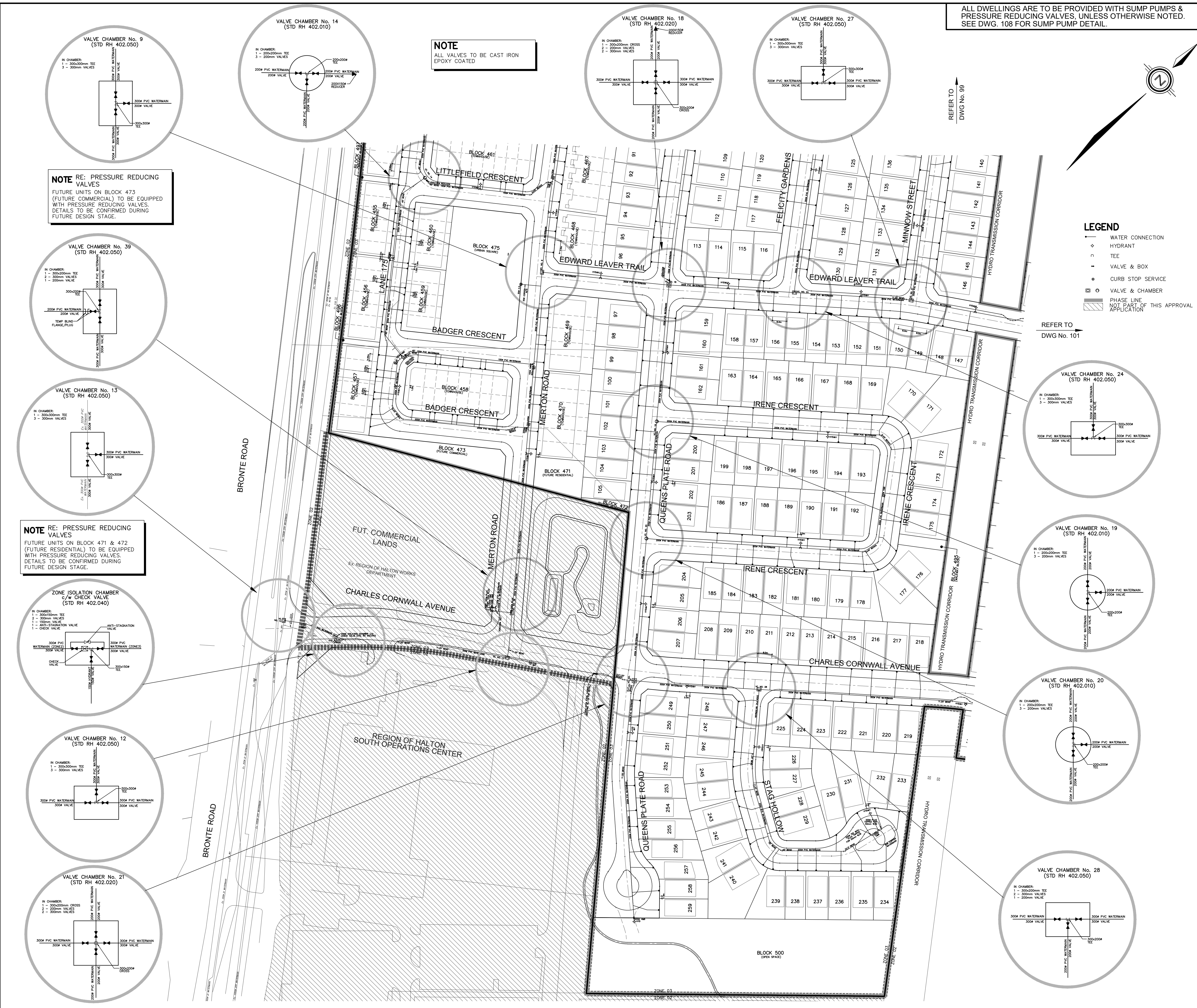
REGION
Halton REGION
The Regional Municipality of Halton

DEVELOPER
BRONTE GREEN CORPORATION

PROJECT
BRONTE GREEN SUBDIVISION
24T-14004

TITLE
WATERMAIN LAYOUT

MUNICIPAL FILE NO.	SD-XXX.X	REGIONAL FILE NO.	DO-1040
PROJECT NO.	12-601	SHEET	99 OF 145



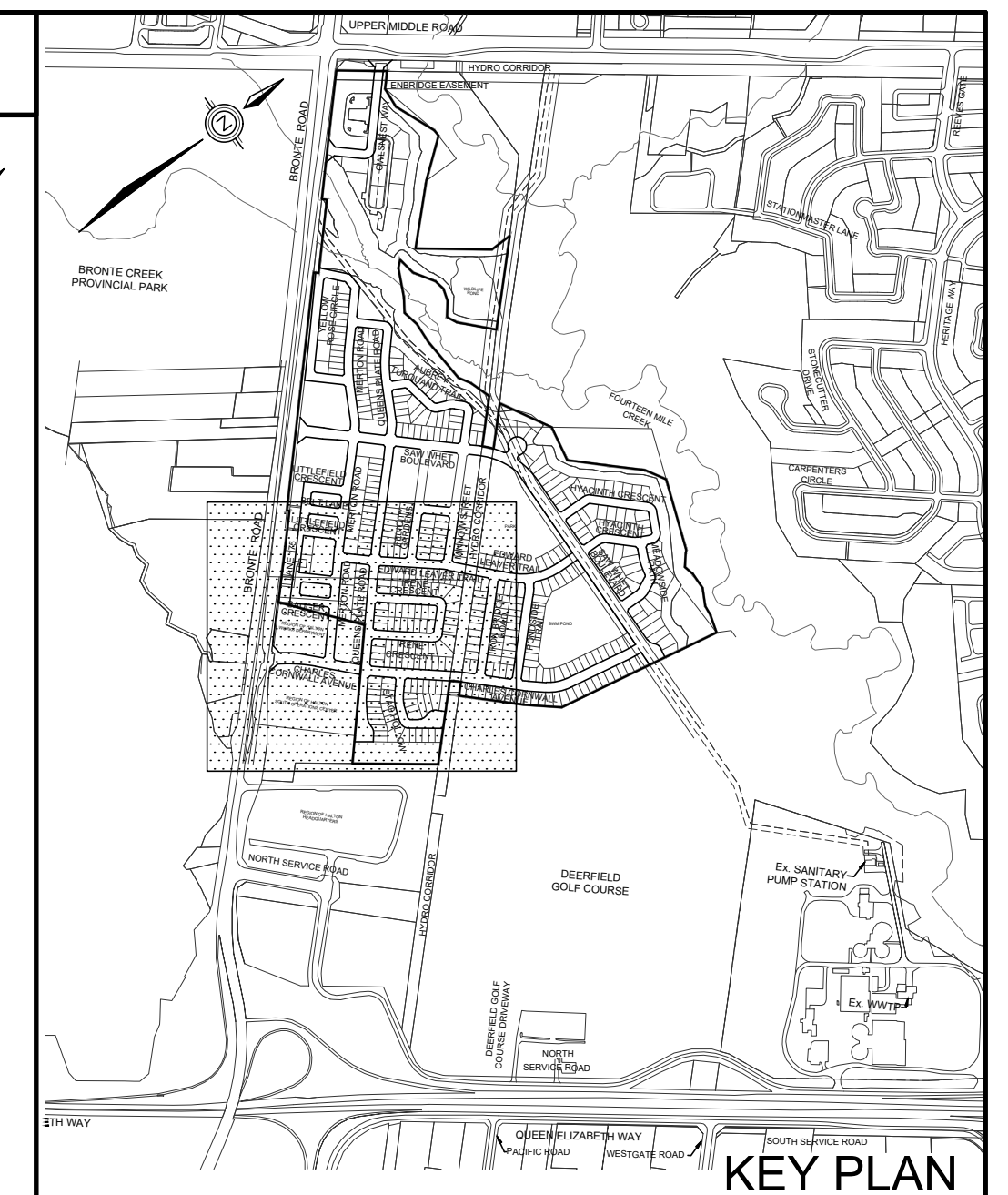
NOTE
ALL VALVES TO BE CAST IRON
EPOXY COATED

NOTE RE: PRESSURE REDUCING VALVES
FUTURE UNITS ON BLOCK 473
(FUTURE COMMERCIAL) TO BE EQUIPPED
WITH PRESSURE REDUCING VALVES.
DETAILS TO BE CONFIRMED DURING
FUTURE DESIGN STAGE.

NOTE RE: PRESSURE REDUCING VALVES
FUTURE UNITS ON BLOCK 471 & 472
(FUTURE RESIDENTIAL) TO BE EQUIPPED
WITH PRESSURE REDUCING VALVES.
DETAILS TO BE CONFIRMED DURING
FUTURE DESIGN STAGE.

ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS &
PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED.
SEE DWG. 108 FOR SUMP PUMP DETAIL.

- LEGEND**
- WATER CONNECTION
 - ◇ HYDRANT
 - TEE
 - VALVE & BOX
 - CURB STOP SERVICE
 - VALVE & CHAMBER
 - PHASE LINE (NOT PART OF THIS APPROVAL)
 - APPLICATION



TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD.,
PROJECT No. 12-30-371-02-TOPO-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25,
2017.

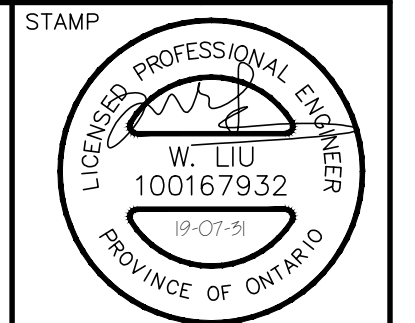
LEGAL INFORMATION
CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD.,
PROJECT No. 12-30-371-03, SURVEY DATED NOVEMBER 29, 2018.
CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD.,
PROJECT No. 12-30-371-09, SURVEY DATED AUGUST 09, 2017.
PROJECT No. 12-30-371-11, SURVEY DATED JANUARY 2, 2018.
PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

BENCHMARK No. 101 ELEVATION = 115.838m
ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF
OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	MOC SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	MOC SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	MOC SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:	W.L.	REFERENCES	

APPROVALS		FIELD NOTES
MUNICIPAL APPROVAL		BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS		GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
MANAGER OF DEVELOPMENT ENGINEERING _____ DATE _____		TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>
STAMP		



DSEL
david schaeffer engineering ltd
600 Alden Road, Suite 500
Markham, Ontario, L3R 0E7
Tel. (905) 475-3080
Fax. (905) 475-3081
www.DSEL.ca

MUNICIPALITY
OAKVILLE
DEVELOPMENT ENGINEERING

REGION
Halton
The Regional
Municipality
of Halton

DEVELOPER
BRONTE GREEN CORPORATION

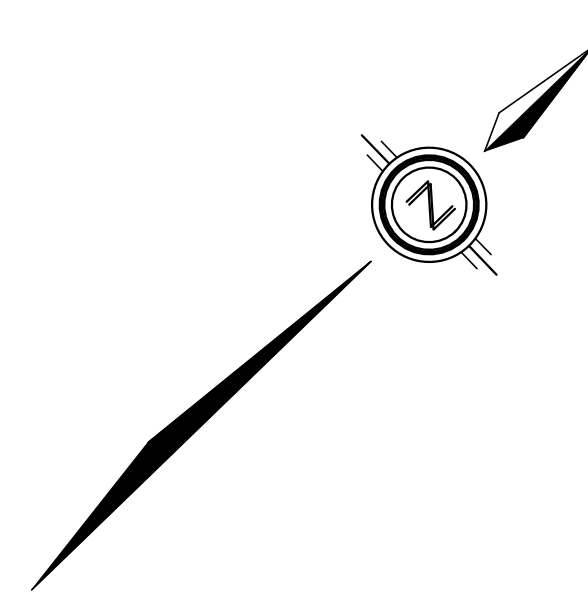
PROJECT
BRONTE GREEN SUBDIVISION
24T-14004

TITLE
WATERMAIN LAYOUT © DSEL

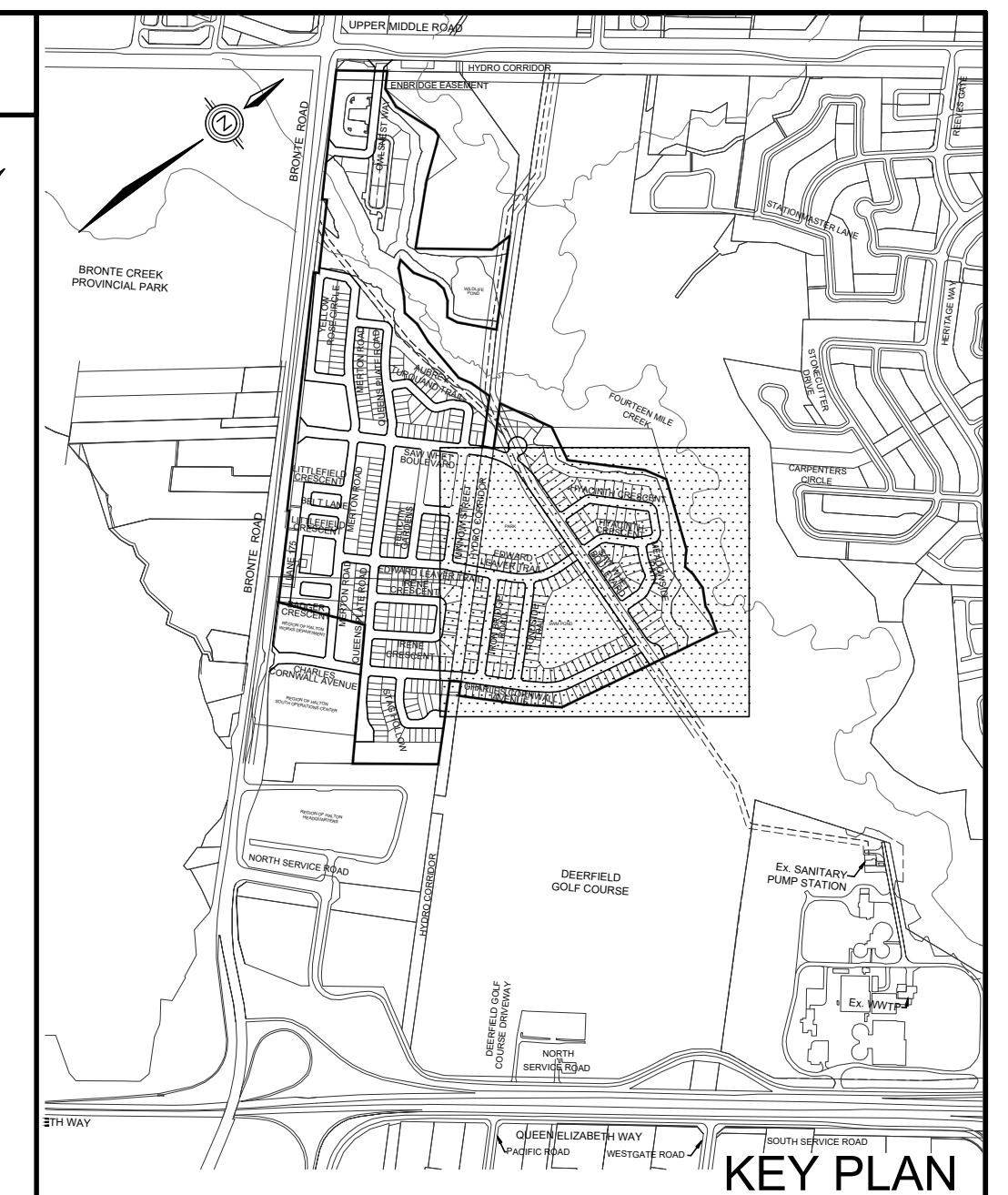
MUNICIPAL FILE NO. SD-XXX.X	REGIONAL FILE NO. DO-1040
PROJECT NO. 12-601	SHEET 100 OF 145

ALL DWELLINGS ARE TO BE PROVIDED WITH SUMP PUMPS & PRESSURE REDUCING VALVES, UNLESS OTHERWISE NOTED. SEE DWG. 108 FOR SUMP PUMP DETAIL.

NOTE
ALL VALVES TO BE CAST IRON EPOXY COATED



- LEGEND**
- WATER CONNECTION
 - ◇ HYDRANT
 - ∩ TEE
 - VALVE & BOX
 - CURB STOP SERVICE
 - ⊙ VALVE & CHAMBER
 - ▬ PHASE LINE
 - ▨ NOT PART OF THIS APPROVAL



TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02-TOPQ-COMBINED, TOPOGRAPHIC SURVEY DATED MAY 25, 2017.

LEGAL INFORMATION
CALCULATED M-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-02, SURVEY DATED NOVEMBER 29, 2018.
CALCULATED R-PLAN PROVIDED BY J.D. BARNES LTD., PROJECT No. 12-30-371-09, SURVEY DATED AUGUST 09, 2017.
PROJECT No. 12-30-371-11, SURVEY DATED SEPTEMBER 14, 2017.
PROJECT No. 12-30-371-11-P, SURVEY DATED JANUARY 2, 2018.
PROJECT No. 12-30-371-11-B, SURVEY DATED DECEMBER 04, 2018.

NOT FOR CONSTRUCTION

BENCHMARK No. 101 ELEVATION = 115.838m

ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK No. 101, HAVING A PUBLISHED ELEVATION OF 115.838 METRES.

No.	DATE	BY	REVISIONS	APPROVED
11.	19-06-21	W.L.	MOE SUBMISSION 2 AMENDMENT	
10.	19-03-29	W.L.	3rd RESUBMISSION TO CH	
9.	19-03-13	W.L.	MOE SUBMISSION 2	
8.	19-02-12	W.L.	4th SUBMISSION TO REGION	
7.	18-11-19	W.L.	3rd RESUBMISSION FOR SIGNATURE	
6.	18-11-06	W.L.	3rd RESUBMISSION TO REGION	
5.	18-10-09	W.L.	3rd SUBMISSION TO REGION	
4.	18-09-12	W.L.	MOE SUBMISSION	
3.	18-06-29	W.L.	3rd SUBMISSION TO TOWN	
2.	18-03-23	W.L.	2nd SUBMISSION	

DESIGNED BY:	C.M./K.M.	CHECKED BY:	W.L.	DATE:	JUNE 2017
DRAWN BY:	D.A.	CHECKED BY:	D.A.		

SCALE:	HORIZ. 1:1000	0	10	20	30	40	REFERENCES
--------	---------------	---	----	----	----	----	------------

APPROVALS		FIELD NOTES	
MUNICIPAL APPROVAL		BELL	<input type="checkbox"/> HYDRO <input type="checkbox"/>
APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS		GAS	<input type="checkbox"/> CABLE <input type="checkbox"/>
MANAGER OF DEVELOPMENT ENGINEERING	DATE	TRAFFIC	<input type="checkbox"/> WATER <input type="checkbox"/>



DSEL
david schaeffer engineering ltd
600 Alden Road, Suite 500
Markham, Ontario, L3R 0E7
Tel. (905) 475-3080
Fax. (905) 475-3081
www.DSEL.ca

MUNICIPALITY
OAKVILLE
DEVELOPMENT ENGINEERING

REGION
Halton
The Regional Municipality of Halton

DEVELOPER
BRONTE GREEN CORPORATION

PROJECT
BRONTE GREEN SUBDIVISION
24T-14004

TITLE
WATERMAIN LAYOUT

MUNICIPAL FILE NO. **SD-XXX.X** REGIONAL FILE NO. **DO-1040**

PROJECT NO. **12-601** SHEET **101** OF **145**



REFER TO
DWG No. 99

REFER TO
DWG No. 100

