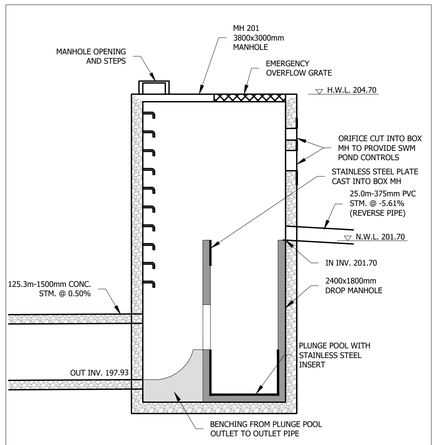
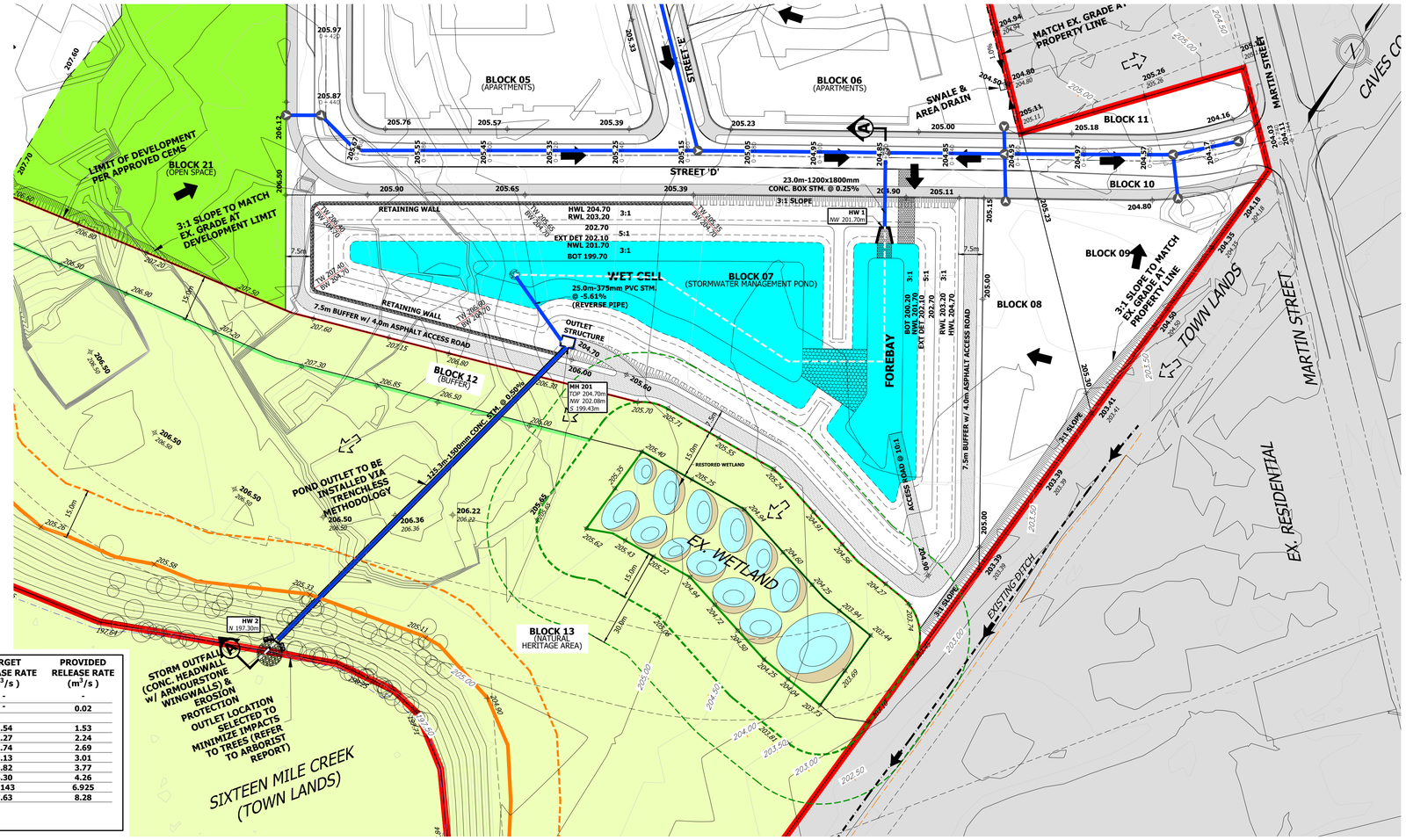
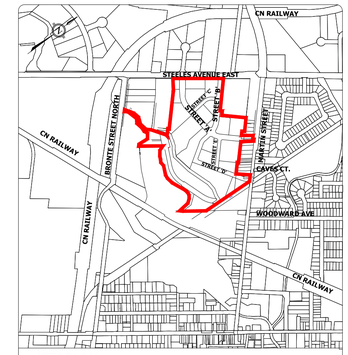


STM MH 201
SECTION VIEW
SCALE: 1:75





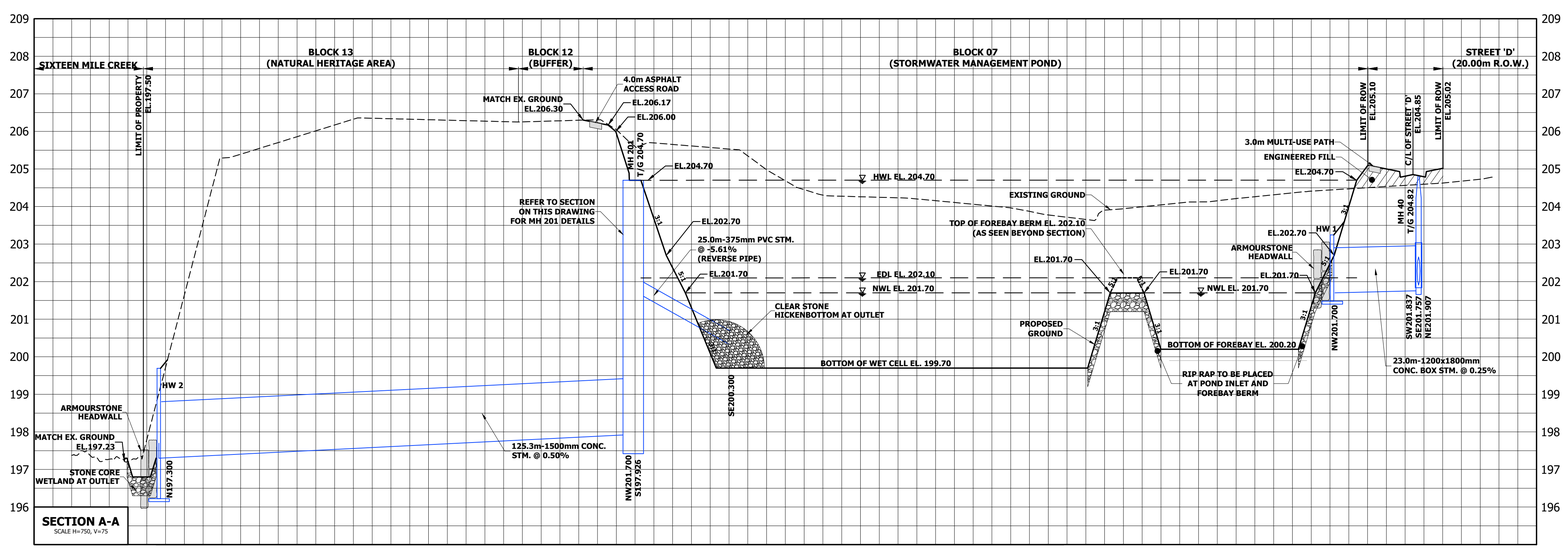
KEY PLAN

LEGEND

- SUBJECT LANDS
- EXTERNAL LANDS
- NHS LANDS
- OPEN SPACE
- NORMALIZED WOODLAND LIMIT / PHYSICAL TOP OF BANK (STAKED BY CONSERVATION HALTON JUL 16, 2021)
- 15m BUFFER FROM TOP OF BANK
- LIMIT OF RECREATED WETLAND
- 15m BUFFER FROM WETLAND
- 30m BUFFER FROM WETLAND
- 204.00 EXISTING CONTOURS
- × 200.25 EXISTING ELEVATION
- × 202.45 PROPOSED ELEVATION
- PROPOSED STORM SEWERS
- PROPOSED OVERLAND FLOW DIRECTION
- 3:1 TRANSITION GRADING

POND COMPONENTS	WATER SURFACE ELEVATION (m) (W.L.)	STORAGE VOLUME (m^3) REQUIRED	PROVIDED	TARGET RELEASE RATE (m^3/s)	PROVIDED RELEASE RATE (m^3/s)
PERMANENT POOL (NWL)	201.70	3,793	6,600	-	-
EXTENDED DETENTION (EDL)	202.10	1,773	2,254	-	0.02
2-YEAR	202.30	3,354	3,534	1.54	1.53
5-YEAR	202.40	4,187	5,213	2.27	2.24
10-YEAR	202.47	4,708	4,708	2.74	2.69
25-YEAR	202.49	4,845	4,848	3.13	3.01
50-YEAR	202.60	5,559	5,651	3.82	3.77
100-YEAR	202.70	5,927	6,411	4.30	4.26
REGIONAL (RWL)	203.20	10,032*	10,553	2.143	6.925
EMERGENCY	204.70	-	25,372	7.63	8.28

* NOTE: REGIONAL VOLUME REQUIREMENTS ARE CALCULATING ASSUMING STORAGE UP TO THE 100-YEAR EVENT IS FULL
** FOR FURTHER DETAILS, REFER TO SWM REPORT.



NOTES

1) REFER TO DWG STM-2 FOR OVERALL STORM DRAINAGE PLAN
2) ADDITIONAL POND DESIGN DETAILS, INCLUDING LINER REQUIREMENTS, WILL BE DETERMINED WITH THE INPUT OF THE GEOTECHNICAL ENGINEER, TO BE PROVIDED AT DETAILED DESIGN.
3) TRADITIONAL EMERGENCY SPILLWAY NOT POSSIBLE DUE TO ELEVATION OF WOODLOT. SPILL TO THE TOWN'S ABANDONED CORRIDOR IS FEASIBLE IF DESIRED; OTHERWISE, OUTLET STRUCTURE TO BE EQUIPPED WITH EMERGENCY TOP GRATE, TBD AT DETAILED DESIGN.

BENCHMARK

ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM GPS OBSERVATIONS. BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A AND B BY REAL TIME NETWORK (RTN), UTM ZONE 17, NAD 83 (ORIGINAL).

ORP A	NORTH 4 818 861.60	EAST 589 747.57
ORP B	NORTH 4 818 687.05	EAST 589 097.13

COORDINATES ARE UTM ZONE 17, NAD83 (ORIGINAL), TO URBAN ACCURACY PER SEC. 14 (2) OF O.REG. 216/10, AND CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES.

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999671.

URBANTECH®

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150 STEELES AVENUE EAST (MERITOR)
TOWN OF MILTON

STORMWATER MANAGEMENT POND

PROJECT No.	DATE	SCALE	DWG No.
21-678	MAR. 2025	1:750	STM-3

P:\PROJECTS\21-678 - 150 STEELES AVE E. (MERIT COMP) - MILTON - HALTON\REPORTS\FUNCTIONAL SERVICING REPORT\DRAWINGS & FIGURES\STM-3 STORMWATER MANAGEMENT POND.DWG