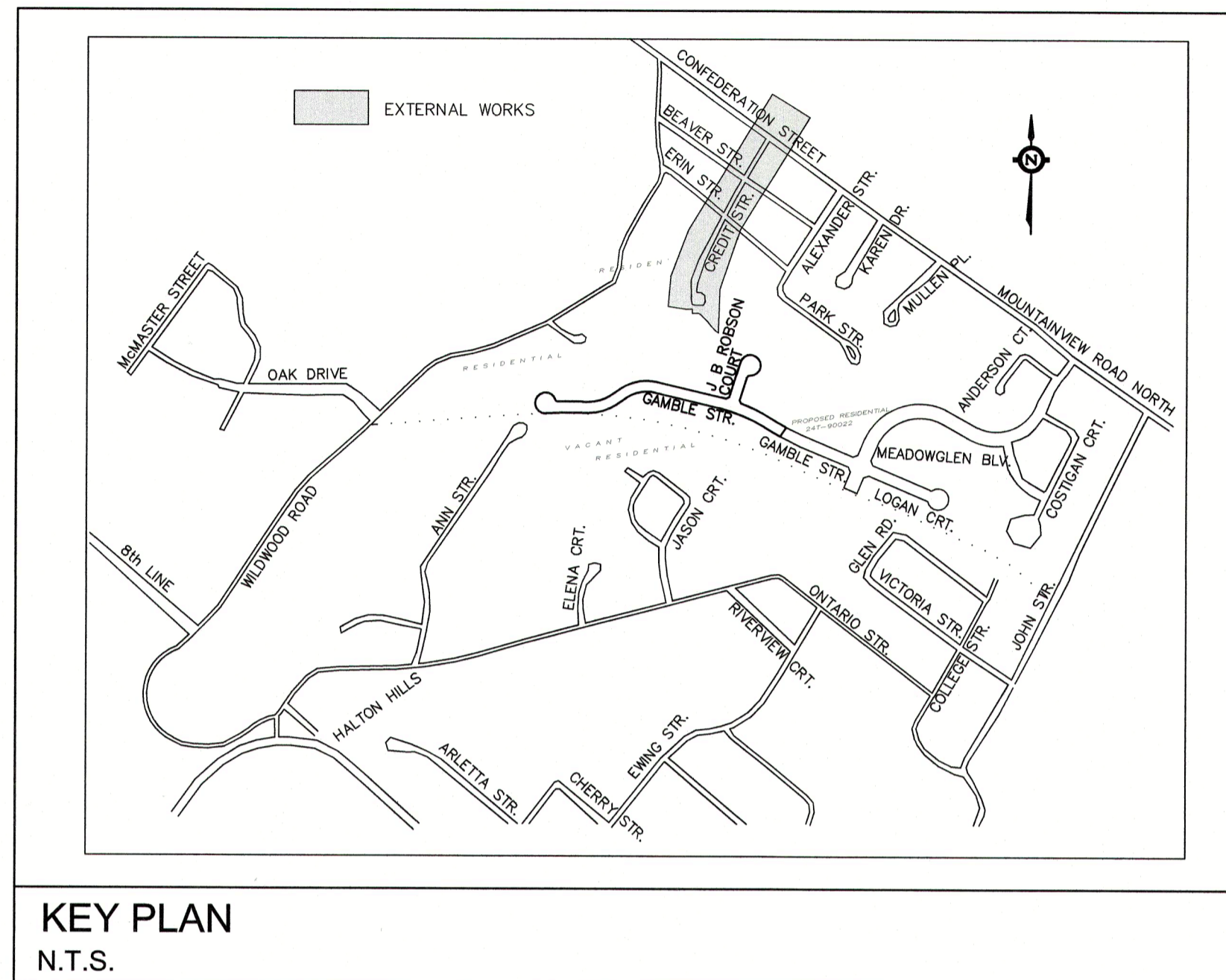


EDEN OAK (CREDITVIEW HEIGHTS) INC. TOWN OF HALTON HILLS REGIONAL MUNICIPALITY OF HALTON

24T-08001/H

REGION FILE: DH-1026



INDEX	
GENERAL PLAN OF SERVICES - CREDIT STREET	17021-04
CREDIT STREET PLAN AND PROFILE STA. 0+000m TO 0+216.01m	17021-16
CREDIT STREET PLAN AND PROFILE STA. 0+216.01m TO 0+380.00m	17021-17
STORMWATER MANAGEMENT POND #2	17021-21
EROSION AND SEDIMENT CONTROL PLAN & CMP - CREDIT STREET	17021-29
TRAFFIC MANAGEMENT PLAN - CREDIT STREET	17021-31
STANDARD DETAILS (1 OF 2)	17021-32
STANDARD DETAILS (2 OF 2)	17021-33

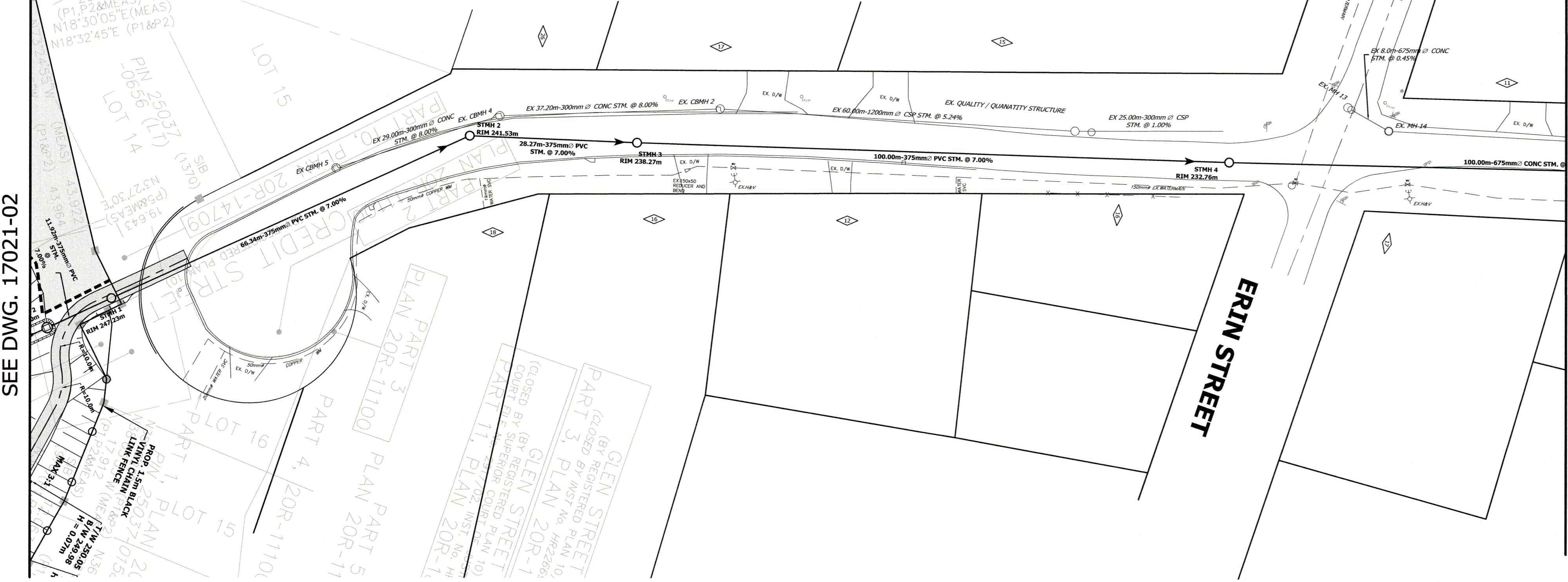
**CREDIT STREET
EXTERNAL WORKS
ISSUED FOR CONSTRUCTION PLANS**

STREET	FROM MH	INVERT ELEV	TO MH	INVERT ELEV	DROP m	Q cms	PIPE DIA. mm	GRADE %	CAPACITY cms	FULL FLOW VELOCITY m/s	ACTUAL VELOCITY m/s	LENGTH m	SECT. TIME min.	TOTAL TIME FULL, Tc min	COMMENTS % FULL
Proposed Creditview Heights plus External Drainage Area															
EDEN OAK (A-15)	DICB 1	254.500	DICBMH 1	254.480	0.020	0.2290	450	2.00%	0.4029	2.53	2.63	1.00	0.01	667.987	56.84%
EDEN OAK (A-15)	DICBMH 1	253.900	HW 3	252.667	1.233	0.4580	450	6.90%	0.7484	4.71	4.99	17.87	0.06	668.050	61.20%
EDEN OAK (A-15)	HW 2	255.250	PCS 1-I	255.400	-0.150	0.008	300	-6.75%	0.2510	3.55	2.22	2.22	0.01	10.036	3.19%
EDEN OAK (A-15)	HW 2	255.650	PCS 1-O	255.800	-0.150	0.053	200	-6.75%	0.0851	2.71	2.24	2.22	0.01	10.091	62.26%
EDEN OAK (A-15)	PCS 1	255.100	STM MH 14	254.948	0.152	0.061	300	6.80%	0.2519	3.55	2.53	2.23	0.01	667.99	24.33%
EDEN OAK (A-15)	STM MH 14	253.348	STM MH 15	252.817	0.531	0.061	300	6.90%	0.2538	3.59	3.55	7.70	0.04	668.03	24.15%
EDEN OAK (A-15)	STM MH 15	250.147	PCS 2	247.827	2.320	0.075	300	9.90%	0.3040	4.30	3.12	23.43	0.08	668.12	20.18%
EDEN OAK (A-15)	PCS 2	247.752	DICBMH2	245.706	2.046	0.3680	375	7.00%	0.4635	4.20	4.36	29.24	0.12	668.23	79.39%
EDEN OAK (A-15)	DICBMH2	244.506	STM MH 1	243.871	0.635	0.3680	375	7.00%	0.4635	4.20	4.36	11.92	0.05	668.28	79.39%
Discharge from SWMHYMO Pond															
EDEN OAK (A-15)	STM MH 1	243.295	STM MH 2	238.651	4.644	0.3680	375	7.00%	0.4635	4.20	4.21	66.34	0.26	668.54	79.39%
CREDIT STREET	STM MH 2	238.551	STM MH 3	236.572	1.979	0.3680	375	7.00%	0.4635	4.20	4.26	28.27	0.11	668.66	79.39%
CREDIT STREET	STM MH 3	235.322	STM MH 4	228.322	7.000	0.3680	375	7.00%	0.4635	4.20	4.26	100.00	0.40	669.05	79.39%
CREDIT STREET	STM MH 4	228.272	STM MH 5	227.392	0.880	0.3680	675	0.88%	0.7881	2.20	2.24	100.00	0.76	669.81	46.70%
CREDIT STREET	STM MH 5	227.342	STM MH 6	226.841	0.501	0.3680	675	0.58%	0.6392	1.79	1.93	86.55	0.81	673.55	57.57%
CREDIT STREET	STM MH 6	226.791	Ex. CBMH 21	226.740	0.051	0.3680	675	0.58%	0.6392	1.79	1.93	8.81	0.08	673.63	57.57%

PROJECT: EDEN OAK (CREDITVIEW HEIGHTS) INC.
 CE#: 17-021
 MINISTRY REFERENCE:
 CALCS BY: D.L.M.S.N. P.Eng.
 CHECKED BY: M.E.H. P.Eng.
 DATE: 12-Aug-19

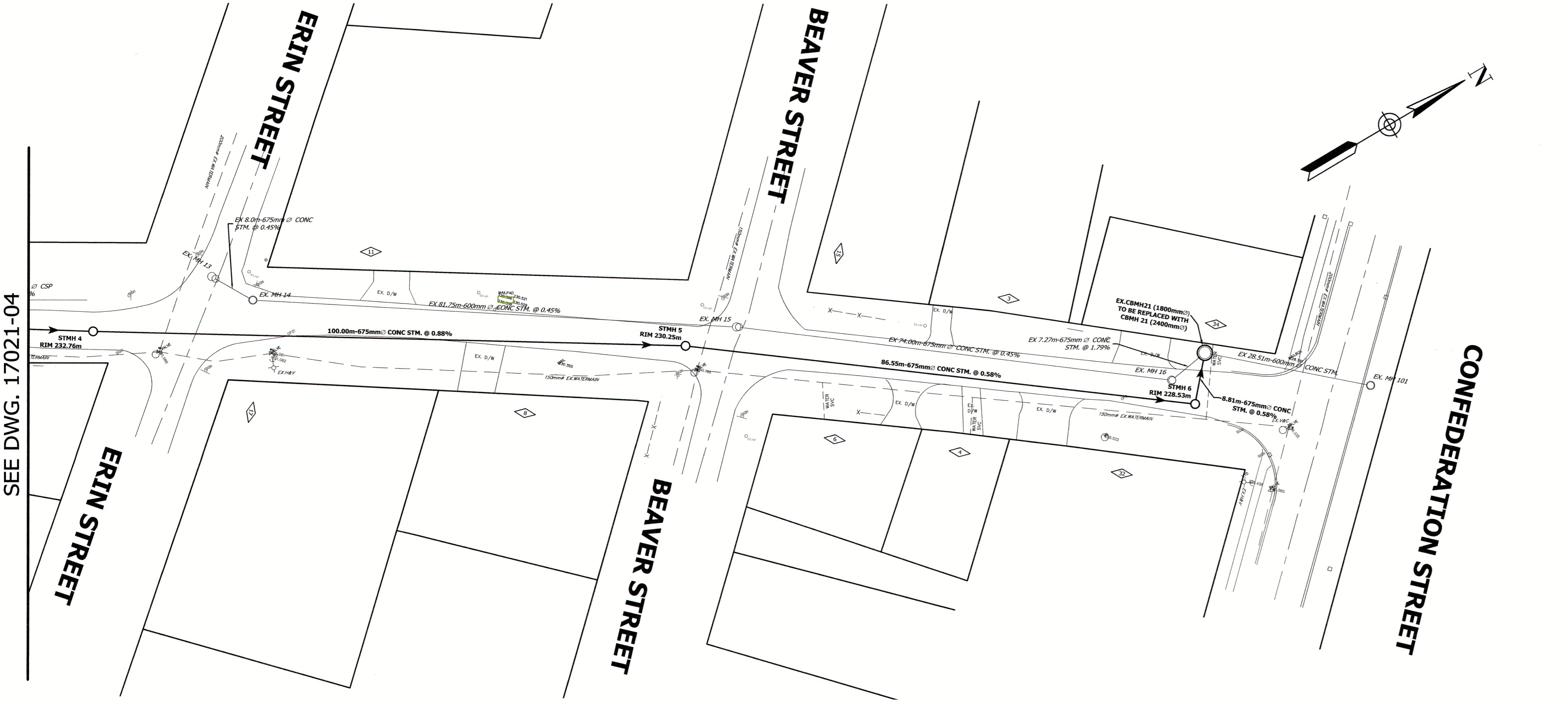
TOWN OF HALTON HILLS
 ENGINEERING AND PUBLIC
 WORKS DEPARTMENT
 STORM SEWER DESIGN SHEET

SHEET 1 OF 1

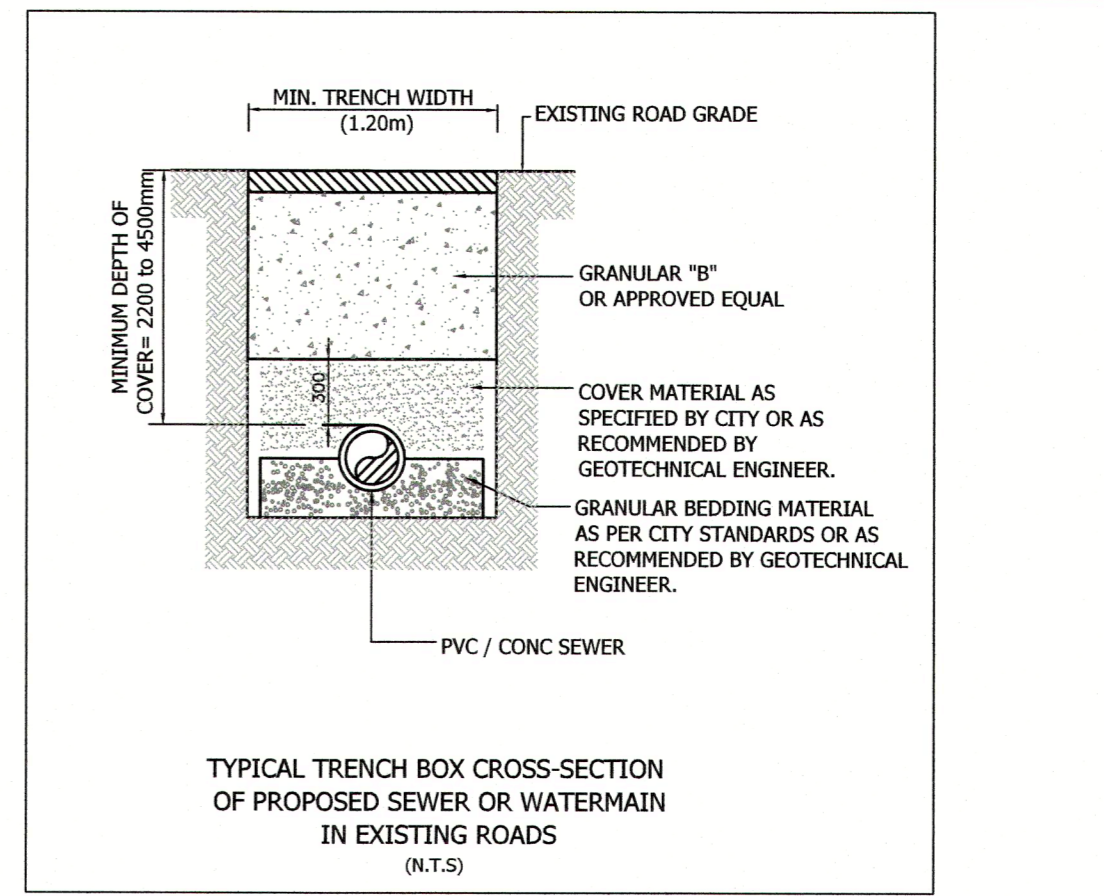
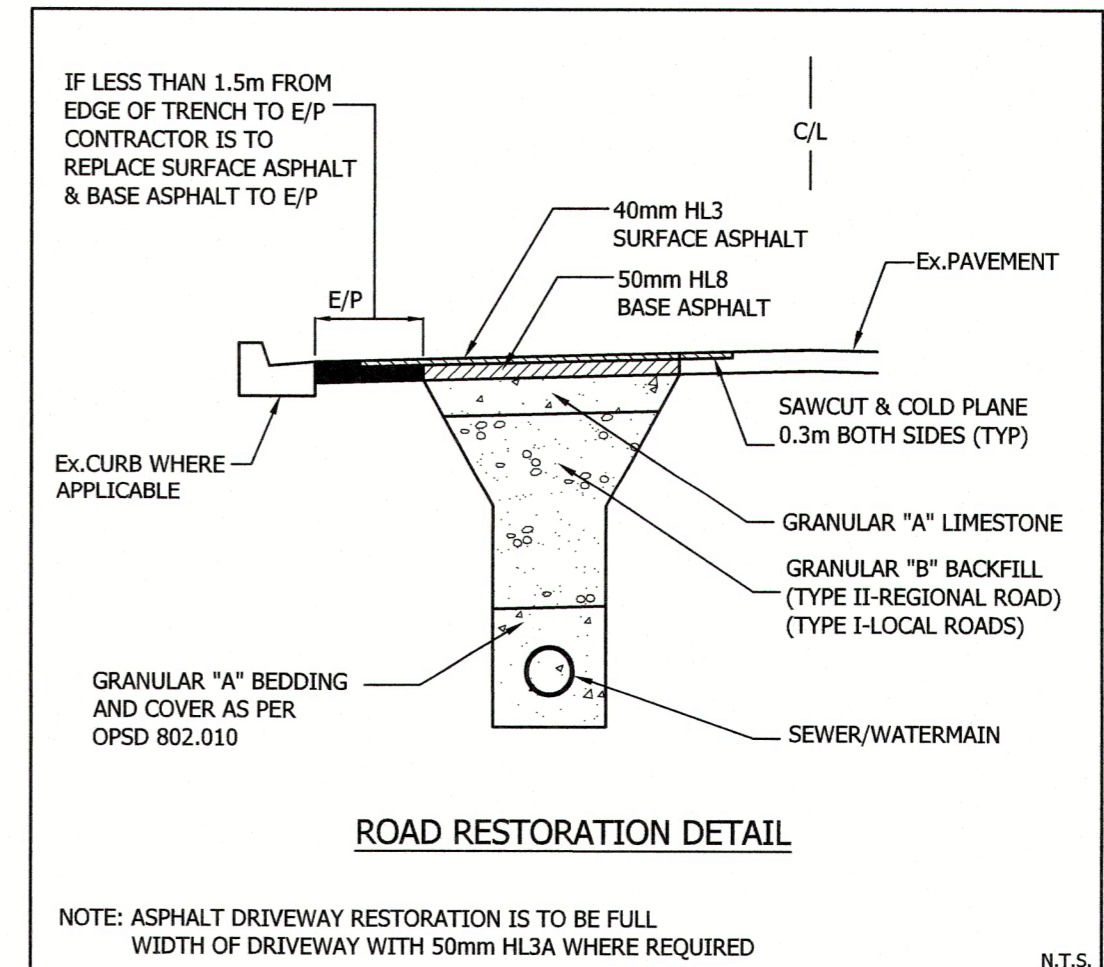
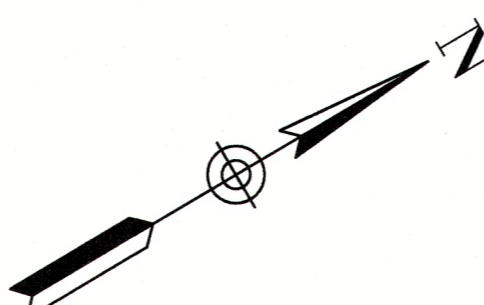
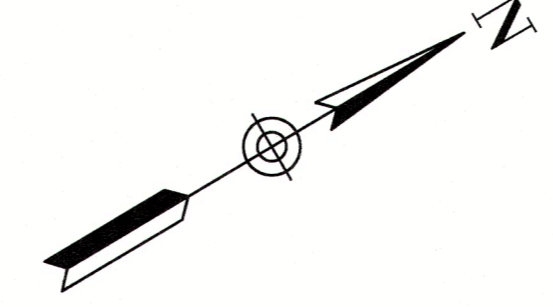


SEE DWG. 17021-02

SEE DWG. 17021-04



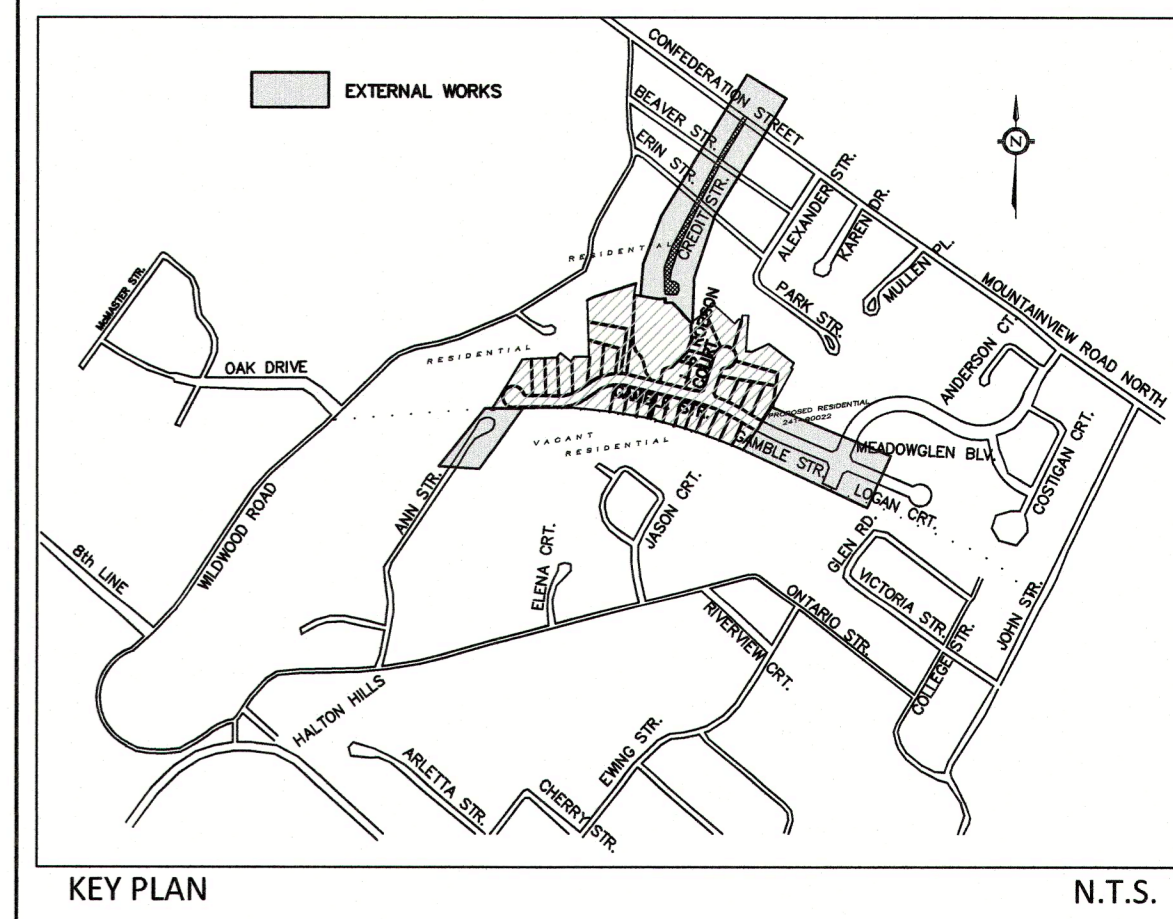
SEE DWG. 17021-04



DEWATERING NOTE FOR CREDIT STREET STORM SEWER OUTLET

- A WELL POINT STYLE SYSTEM WILL BE UTILIZED TO DEWATER THE STORM SEWER TO A MINIMUM OF 0.50m BELOW INVERT OF PIPE.
- DISCHARGE FOR THE WELL POINT SYSTEM WILL BE DIVERTED TO THE EXISTING CREDIT STREET STORM SEWER
- FURTHER DETAILS WILL BE PROVIDED ONCE THE DEWATERING CONTRACTOR IS CONFIRMED.

SEE DWG. 17021-04



PLAN OF SURVEY ILLUSTRATING TOPOGRAPHY PART OF PARK LOT 3 AND PART OF ANN STREET CAVANAUGH'S UNREGISTERED PLAN PART OF THE EAST HALF OF LOT 20, CONVESSION 9

ISSUED FOR CONSTRUCTION

LEGEND

EX. 200P SW	EXISTING SANITARY SEWER DIRECTION OF FLOW
EX. 150P WATERMAIN	EXISTING WATERMAIN
EX. 50MM MH	EXISTING SANITARY MANHOLE
EX. 150MM MH	EXISTING CATCHBASIN MANHOLE
EX. W	EXISTING WATER VALVE & BOX
EX. H	EXISTING HYDRANT
100m-600mm CONC STM @ 1.00%	PROPOSED STORM SEWER DIRECTION OF FLOW
---	PROPOSED CENTERLINE/STA
---	LOT LINE
○ MH 20	PROPOSED STORM MANHOLE/NUMBER
◇	MUNICIPAL ADDRESS
□	UNDISTURBED AREA (FUTURE TOWN OWNED)

BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0). DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE GROUND SCALE FACTOR OF 0.99966. FOR BEARING COMPARISONS, A ROTATION OF 0°48'10" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P1, P2, P3, P4, P5, P6, P7 AND P8.

ELEVATION NOTE
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM GEOLOGICAL SURVEY OF CANADA BENCH MARK: No. 001154USUBP ELEVATION=258.735m No. 0081966361 ELEVATION=252.480m LOCAL BENCHMARK
 CUTGROSS ON CONCRETE CURB ON WEST SIDE OF CREDIT STREET ELEVATION=240.91m

ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED PIPE SIZES ARE IN MILLIMETRES

2.	ENGINEERING SUBMISSION #3	AUG/13/2019	R.P.D.
1.	ENGINEERING SUBMISSION #2	APRIL/3/2019	R.P.D.
0.	ENGINEERING SUBMISSION #1	MAY/5/2018	R.P.D.
REVISION	BLOCK	DATE	APPR. BY

EDEN OAK (CREDITVIEW HEIGHTS) INC.
 24T-08001/H

MUNICIPAL DESIGN APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF HALTON HILLS STANDARDS AND SPECIFICATIONS.

REGIONAL MUNICIPALITY OF HALTON DESIGN OF WASTEWATER AND WATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON STANDARDS AND SPECIFICATIONS AND LOCATION APPROVAL FROM AREA MUNICIPALITY.

SIGNED: [Signature]
 ENGINEERING & PUBLIC WORKS
 DATE: 08/11/19

SIGNED: [Signature]
 PLANNING & PUBLIC WORKS DEPARTMENT
 DATE:

DESIGNED: [Signature]
 M.E.HALL
 AUG/13/2019
 PROVINCE OF ONTARIO

APPROVED: [Signature]
 R.P. DE ANGELIS
 AUG/13/2019
 PROVINCE OF ONTARIO

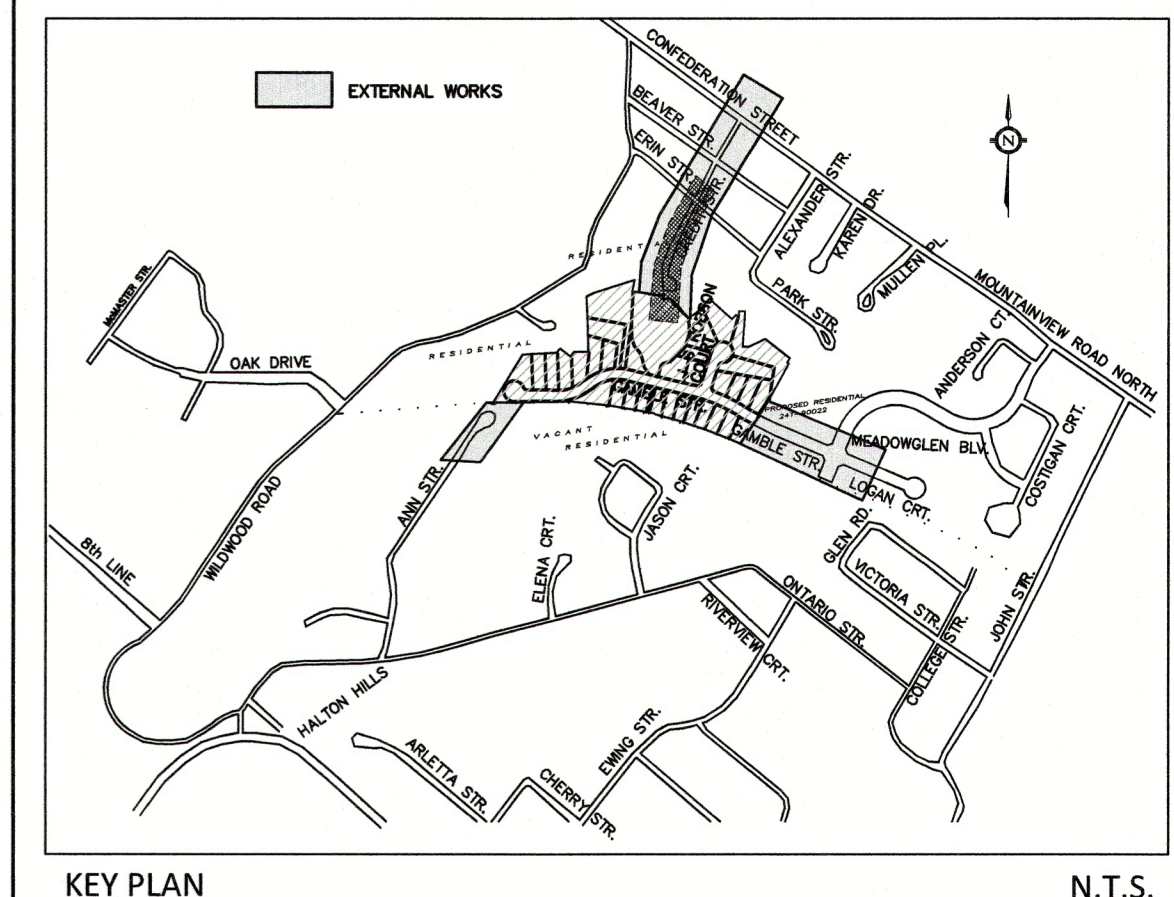
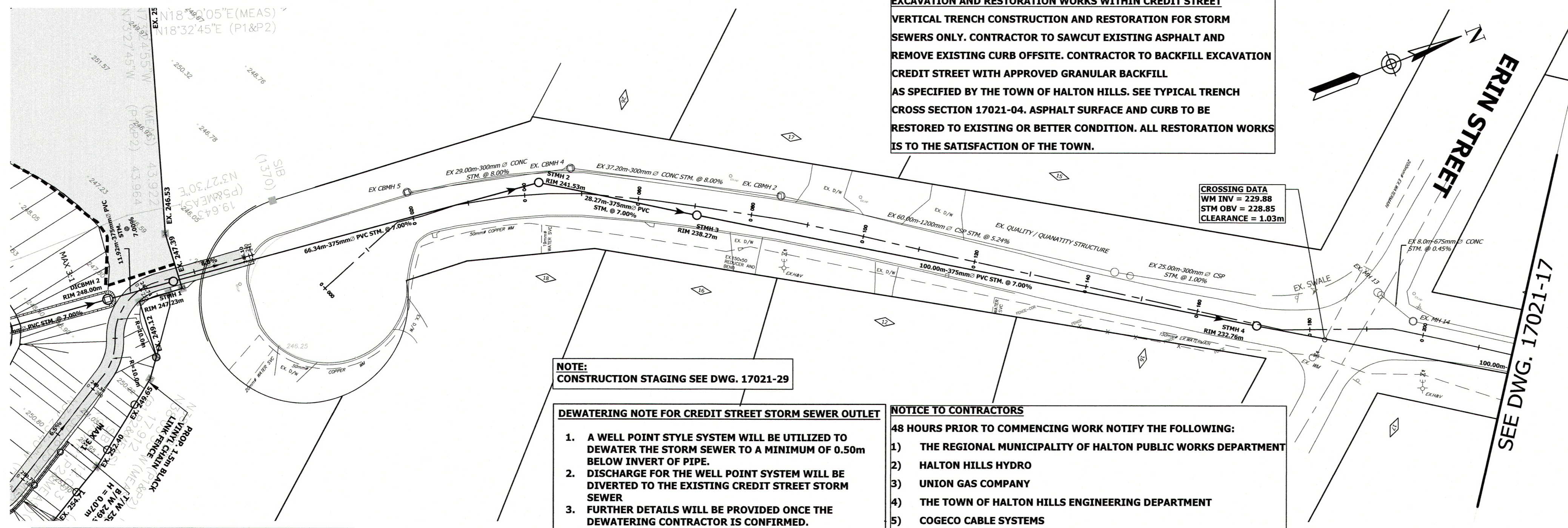
CONDELAND
 CONSULTING ENGINEERS & PROJECT MANAGERS
 350 Creditstone Road, Unit 200
 Concord, Ontario L4K 3Z2
 P: (905) 695-2096
 F: (905) 695-2099

TOWN OF HALTON HILLS
 Working Together Working for You!

Halton
 REGION

GENERAL PLAN OF SERVICES - CREDIT STREET

DESIGNED BY: S.N./R.P.D.	DATE: AUGUST 2019	CHECKED BY: R.P.D.
DRAWN BY: A.G./V.B.	DRAWING NO. 17021-04	CITY FILE:
SCALE	Sheet: 04 OF 35	REGION FILE:



ISSUED FOR CONSTRUCTION

LEGEND

EX. 150P WATERWAY	EXISTING WATERMAIN	UNDISTURBED AREA (FUTURE TOWN OWNED)
EX. STW. INV.	EXISTING STORM MANHOLE	EXISTING SWALE
EX. CBMH	EXISTING CATCHBASIN MANHOLE	
EX. HW	EXISTING WATERMAIN MANHOLE	
EX. HV	EXISTING WATER VALVE & BOX	
EX. HYD	EXISTING HYDRANT	
H.P.	EXISTING HYDRO POLE	
A	EXISTING STOP SIGN	
AS	EXISTING STREET NAME SIGN	
EX. FENCE	EXISTING FENCE	
EX. CB	EXISTING CATCHBASIN	
100m-600mm CONC STM @ 1.00%	PROPOSED STORM SEWER DIRECTION OF FLOW	
STM#20	PROPOSED STORM MANHOLE/NUMBER	
CL	CENTERLINE/STA	
56	MUNICIPAL ADDRESS	

PLAN OF SURVEY ILLUSTRATING TOPOGRAPHY PART OF PARCEL LOT 3 AND PART OF ANN STREET CAVANAUGH'S UNREGISTERED PLAN PART OF THE EAST HALF OF LOT 20, CONCESSION 9

BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0). DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE GROUND SCALE FACTOR OF 0.99996. FOR BEARING COMPARISONS, A ROTATION OF 0°48'10" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P1, P2, P3, P4, P5, P6, P7 AND P8.

ELEVATION NOTE
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM GEOLOGICAL SURVEY OF CANADA BENCH MARK: No. 00115454/SURP ELEVATION=258.735m, No. 008196683/1 ELEVATION=252.480m LOCAL BENCHMARK.

CUTCROSS ON CONCRETE CURB ON WEST SIDE OF CREDIT STREET ELEVATION=240.91m

ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED PIPE SIZES ARE IN MILLIMETRES

2.	ENGINEERING SUBMISSION #3	AUG/13/2019	R.P.D.
1.	ENGINEERING SUBMISSION #2	APRIL/3/2019	R.P.D.
0.	ENGINEERING SUBMISSION #1	MAY/5/2018	R.P.D.

REVISION BLOCK

EDEN OAK (CREDITVIEW HEIGHTS) INC.
 24T-08001/H

MUNICIPAL DESIGN APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF HALTON HILLS STANDARDS AND SPECIFICATIONS.

REGIONAL MUNICIPALITY OF HALTON DESIGN OF WASTEWATER AND WATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON STANDARDS AND SPECIFICATIONS AND LOCATION APPROVAL FROM AREA MUNICIPALITY.

SIGNED: [Signature] DATE: 07/19

SIGNED: [Signature] DATE: [Blank]

DESIGNED: [Signature] APPROVED: [Signature]

CONDELAND
 CONSULTING ENGINEERS & PROJECT MANAGERS
 350 Creditstone Road, Unit 200 Concord, Ontario L4K 3Z2
 P: (905) 695-2096
 F: (905) 695-2099

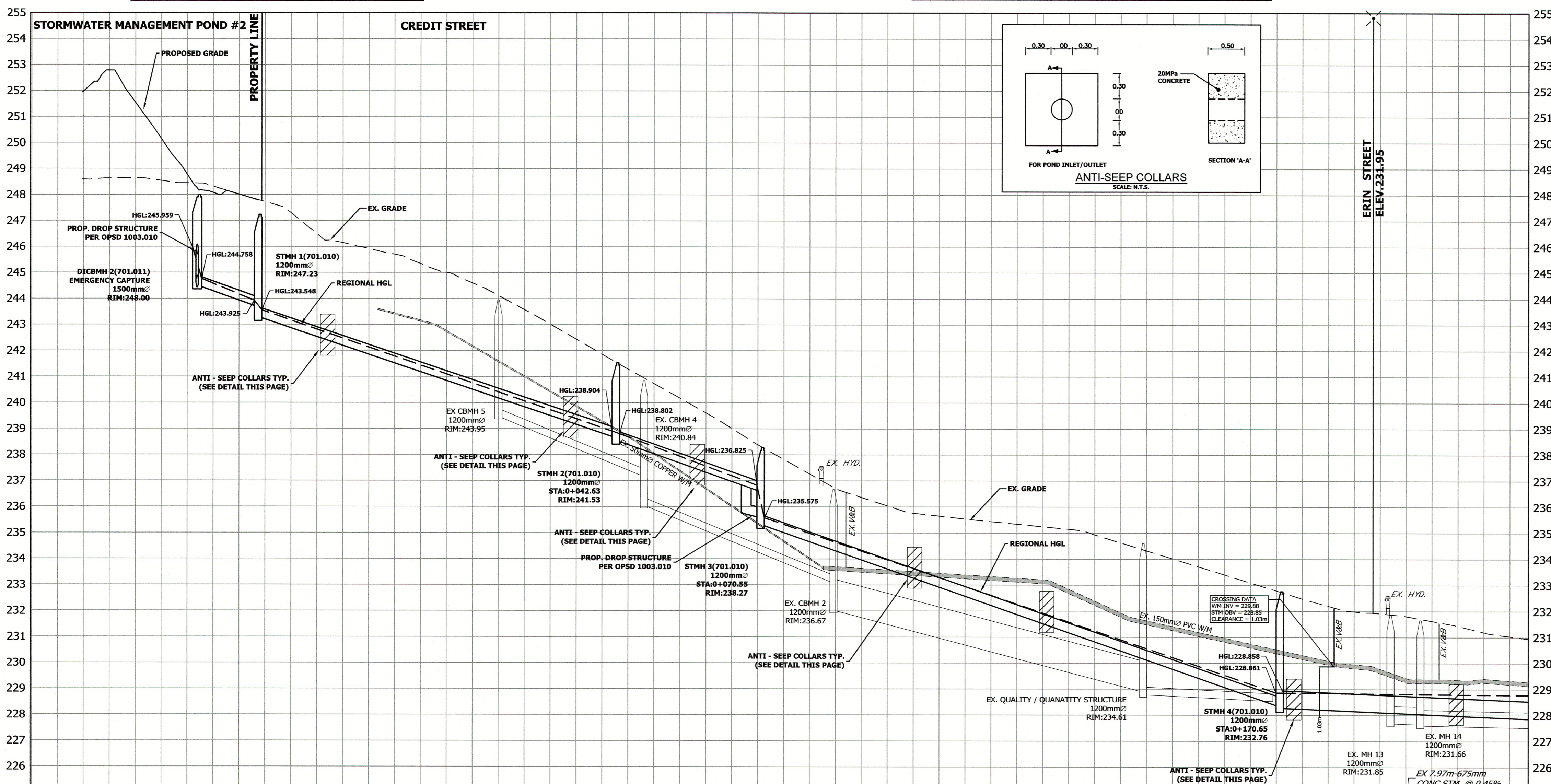
TOWN OF HALTON HILLS
 Working Together Working for You!

Halton REGION

CREDIT STREET PLAN AND PROFILE
 STA. 0+000m to 0+216.01m

DESIGNED BY: S.N./R.P.D.	DATE: AUGUST 2019	CHECKED BY: R.P.D.
DRAWN BY: A.G./V.B.	DRAWING NO. 17021-16	CITY FILE:
SCALE: HOR 1:500 VER 1:100	Sheet: 16 OF 35	REGION FILE:

Sheet: 16 OF 35

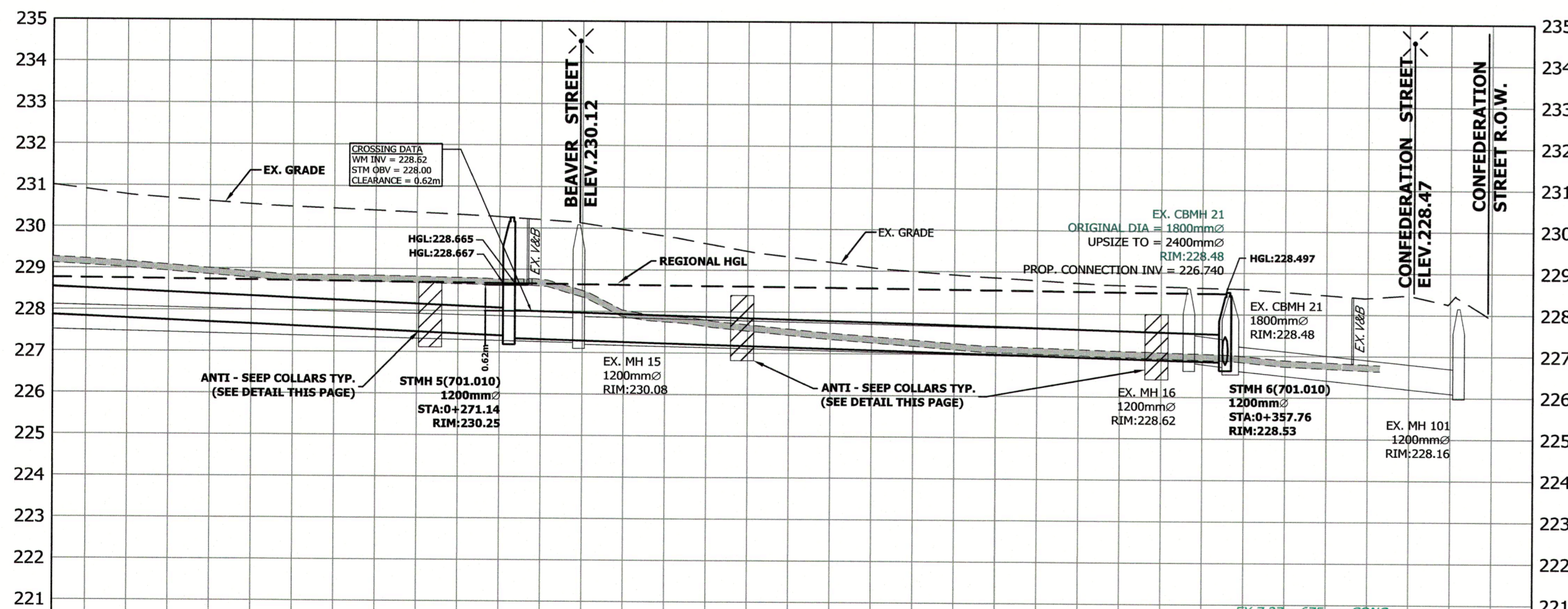
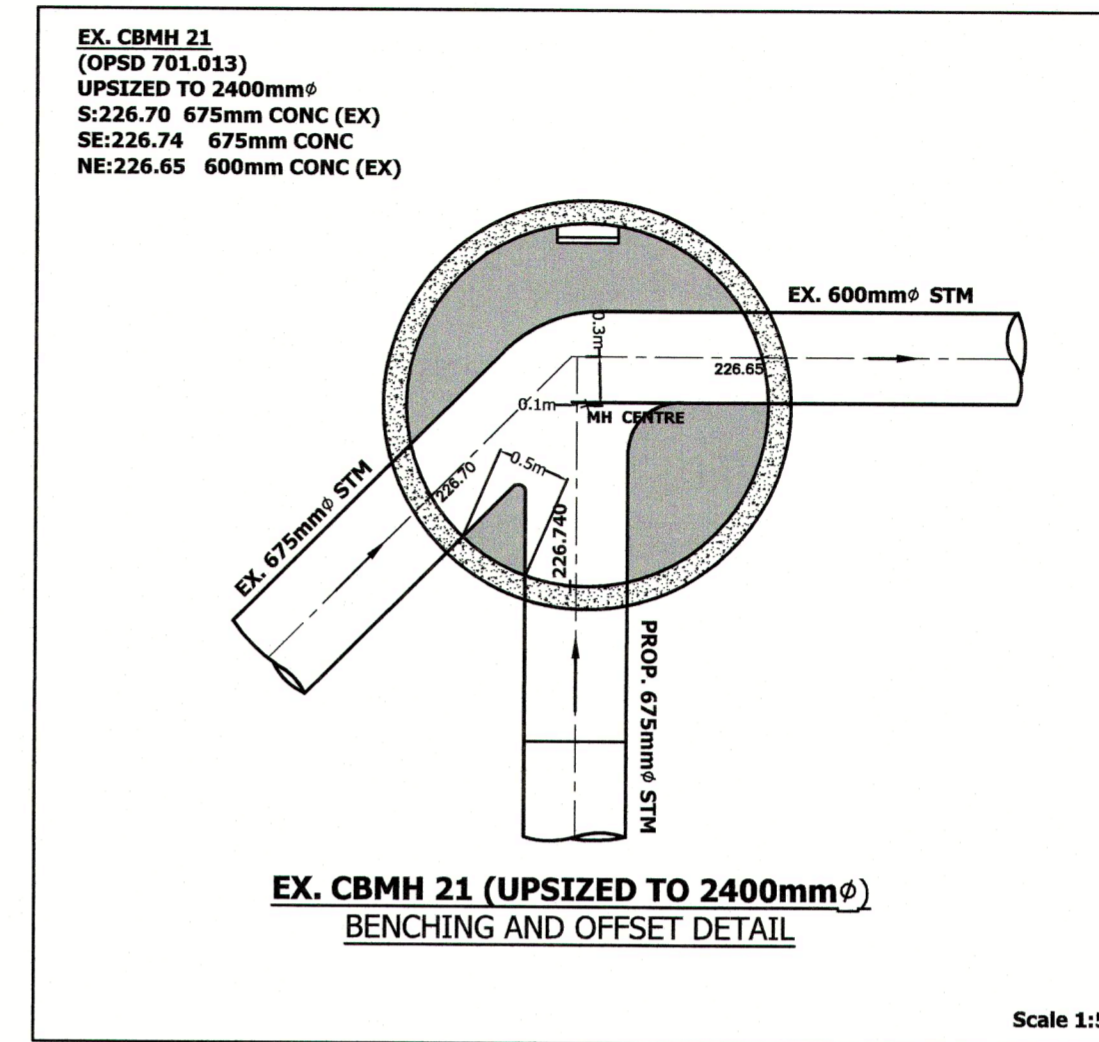
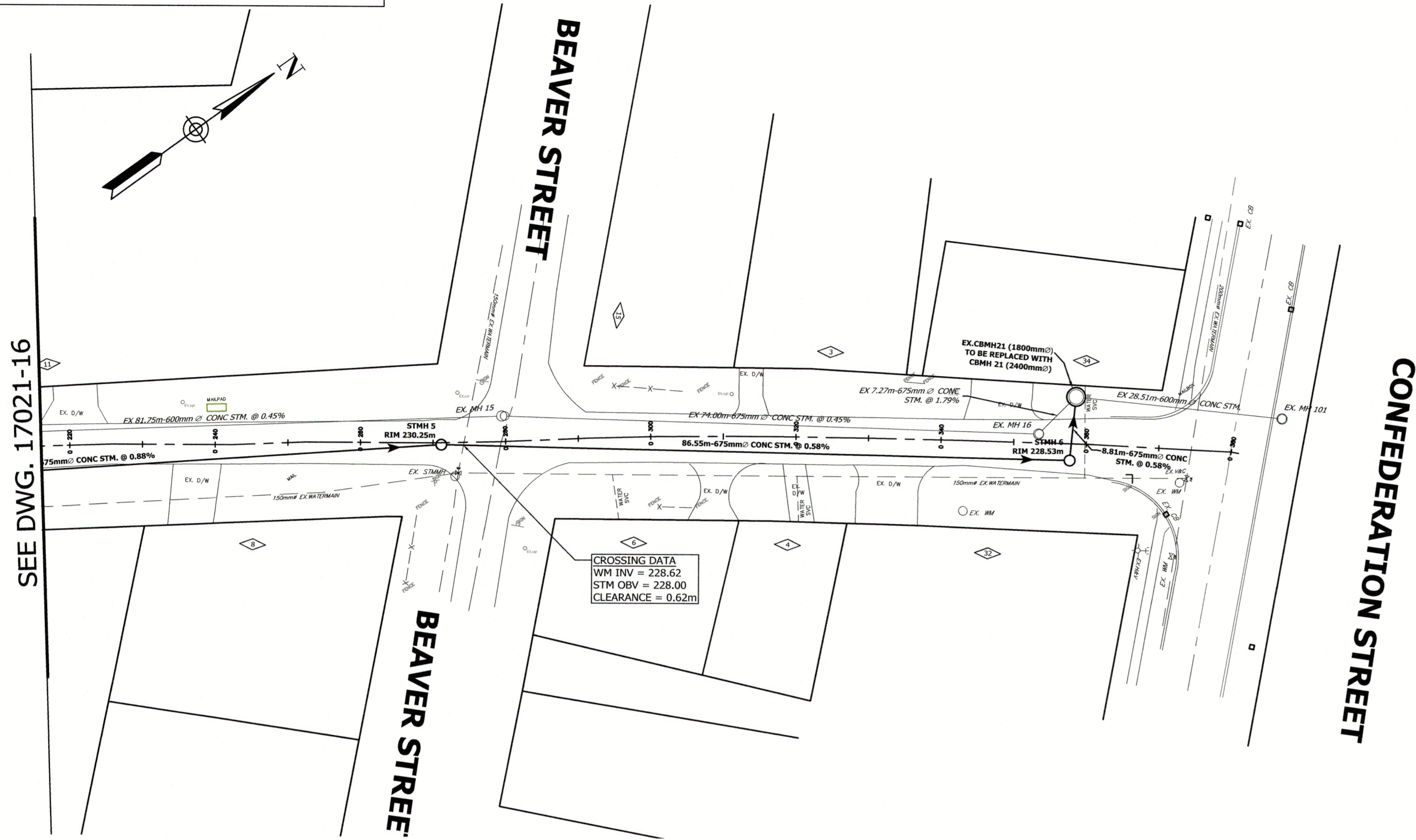


EX. STORM SEWER INVERT	11.92m-375mm PVC STM. @ 7.00% CLASS 50-D BEDDING OPSD 802.030/802.032 CLASS 'B'	7/239.46	EX 29.00m-300mm CONC STM. @ 8.00%	EX 37.20m-300mm CONC STM. @ 8.00%	EX 60.00m-1200mm CSP STM. @ 5.24%	EX 25.00m-300mm CSP STM. @ 1.00%	EX 81.75m-600mm CONC STM. @ 0.45%
STORM SEWER INVERT	66.34m-375mm PVC STM. @ 7.00% CLASS 50-D BEDDING OPSD 802.030/802.032 CLASS 'B'	5/245.706 N244.596	5/238.651 N238.551	5/237.14 N236.04	5/236.572 N235.572	5/235.972 N234.972	5/235.372 N234.372
EXISTING CENTERLINE ELEVATION		246.59	246.44	247.29	245.71	244.12	241.86
CENTERLINE CHAINAGE		0+060	0+040	0+020	0+000	0+080	0+160

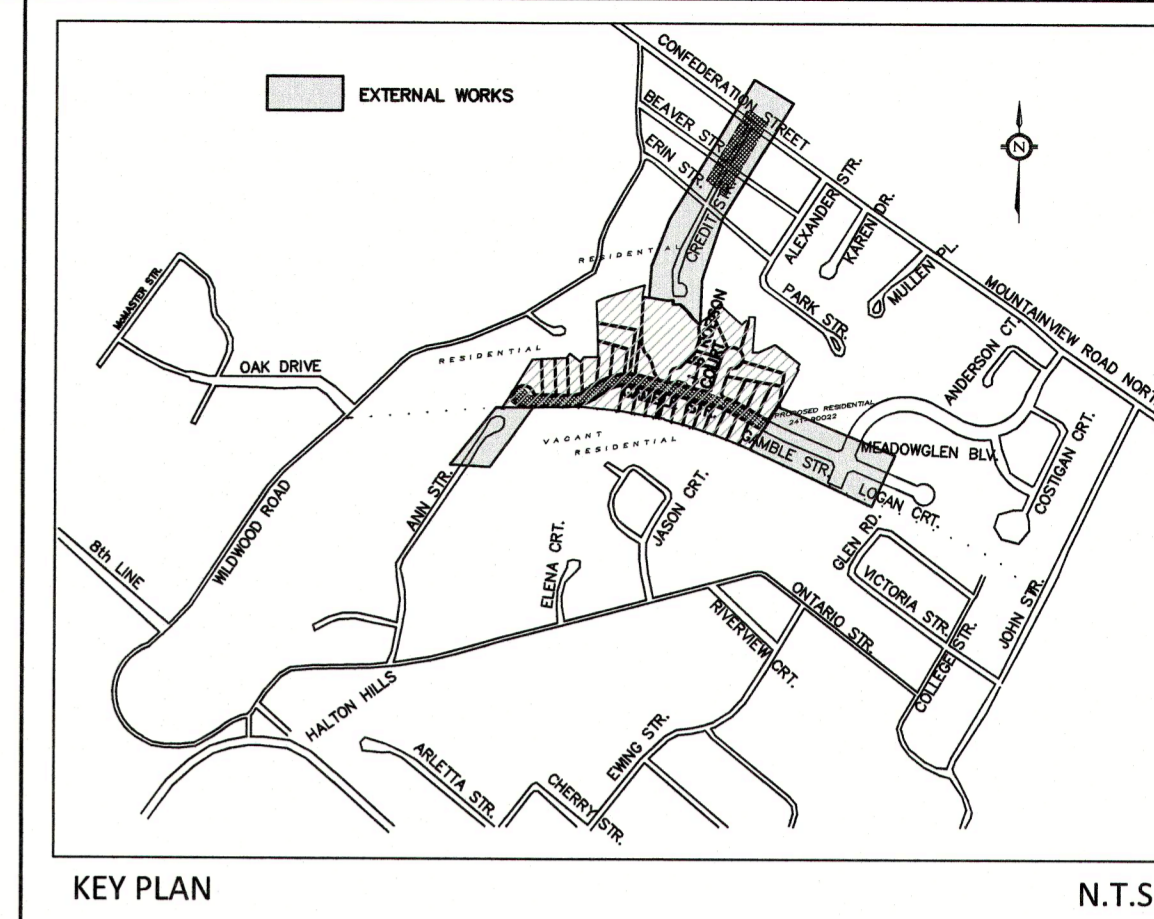
EXCAVATION AND RESTORATION WORKS WITHIN CREDIT STREET
 VERTICAL TRENCH CONSTRUCTION AND RESTORATION FOR STORM SEWERS ONLY. CONTRACTOR TO SAWCUT EXISTING ASPHALT AND REMOVE EXISTING CURB OFFSITE. CONTRACTOR TO BACKFILL EXCAVATION CREDIT STREET WITH APPROVED GRANULAR BACKFILL AS SPECIFIED BY THE TOWN OF HALTON HILLS. SEE TYPICAL TRENCH CROSS SECTION ON 17021-04. ASPHALT SURFACE AND CURB TO BE RESTORED TO EXISTING OR BETTER CONDITION. ALL RESTORATION WORKS IS TO THE SATISFACTION OF THE TOWN.

NOTICE TO CONTRACTORS
 48 HOURS PRIOR TO COMMENCING WORK NOTIFY THE FOLLOWING:
 1) THE REGIONAL MUNICIPALITY OF HALTON PUBLIC WORKS DEPARTMENT
 2) HALTON HILLS HYDRO
 3) UNION GAS COMPANY
 4) THE TOWN OF HALTON HILLS ENGINEERING DEPARTMENT
 5) COGECO CABLE SYSTEMS
 6) BELL TELEPHONE COMPANY

NOTE:
 CONSTRUCTION STAGING SEE DWG. 17021-29
DEWATERING NOTE FOR CREDIT STREET STORM SEWER OUTLET
 1. A WELL POINT STYLE SYSTEM WILL BE UTILIZED TO DEWATER THE STORM SEWER TO A MINIMUM OF 0.50m BELOW INVERT OF PIPE.
 2. DISCHARGE FOR THE WELL P



EX. STORM SEWER INVERT	EX 81.75m-600mm CONC STM. @ 0.45%	EX 74.00m-675mm CONC STM. @ 0.45%	EX 28.51m-600mm CONC STM.
STORM SEWER INVERT	100.00m-675mm CONC STM. @ 0.88% CLASS 50-D BEDDING OPSD 802.030/802.032 CLASS 'B'	86.55m-675mm CONC STM. @ 0.58% CL-100D, CLASS 'B' BEDDING	
EXISTING CENTERLINE ELEVATION	231.01 230.90 230.55 230.37	230.13 229.46 228.99 228.74	228.61 228.47
CENTERLINE CHAINAGE	0+220 0+240 0+260	0+280 0+300 0+316.320 0+320 0+340	0+360 0+380



PLAN OF SURVEY ILLUSTRATING TOPOGRAPHY
 PART OF PARK LOT 3 AND PART OF PARK STREET
 CAVANAUGH'S UNREGISTERED PLAN
 PART OF THE EAST HALF OF LOT 20, CONCESSION 9

LEGEND

- EXISTING WATERMAIN
- EXISTING STORM MANHOLE
- EXISTING CATCHBASIN MANHOLE
- EXISTING WATERMAIN MANHOLE
- EXISTING WATER VALVE & BOX
- EXISTING HYDRANT
- EXISTING HYDRO POLE
- EXISTING STOP SIGN
- EXISTING STREET NAME SIGN
- EXISTING FENCE
- EXISTING CATCHBASIN
- PROPOSED STORM SEWER DIRECTION OF FLOW
- PROPOSED STORM MANHOLE/NUMBER
- CENTERLINE/STA
- MUNICIPAL ADDRESS

BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0). DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999856. FOR BEARING COMPARISONS, A ROTATION OF 00°48'10" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P1, P2, P3, P4, P5, P6, P7 AND P8.

ELEVATION NOTE
 ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM GEOLOGICAL SURVEY OF CANADA BENCH MARK: No. 001954058F ELEVATION=258.735m, No. 00819668361 ELEVATION=252.480m

LOCAL BENCHMARK
 CUTCROSS ON CONCRETE CURB ON WEST SIDE OF CREDIT STREET ELEVATION=240.91m

ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED. PIPE SIZES ARE IN MILLIMETRES.

1.	ENGINEERING SUBMISSION #2	APRIL/3/2019	R.P.D.
0.	ENGINEERING SUBMISSION #1	MAY/5/2018	R.P.D.
REVISION	BLOCK	DATE	APPR. BY

EDEN OAK (CREDITVIEW HEIGHTS) INC.
 24T-08001/H

MUNICIPAL DESIGN APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF HALTON HILLS STANDARDS AND SPECIFICATIONS.
 REGIONAL MUNICIPALITY OF HALTON DESIGN OF WASTEWATER AND WATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON STANDARDS AND SPECIFICATIONS AND LOCATION APPROVAL FROM AREA MUNICIPALITY.

SIGNED: [Signature]
 DATE: [Date]
 DESIGNED: [Signature]
 APPROVED: [Signature]

DESIGNED: M.E. HALL
 AUG 13/2019
 APPROVED: R.P. DE ANGELIS
 AUG 13/2019

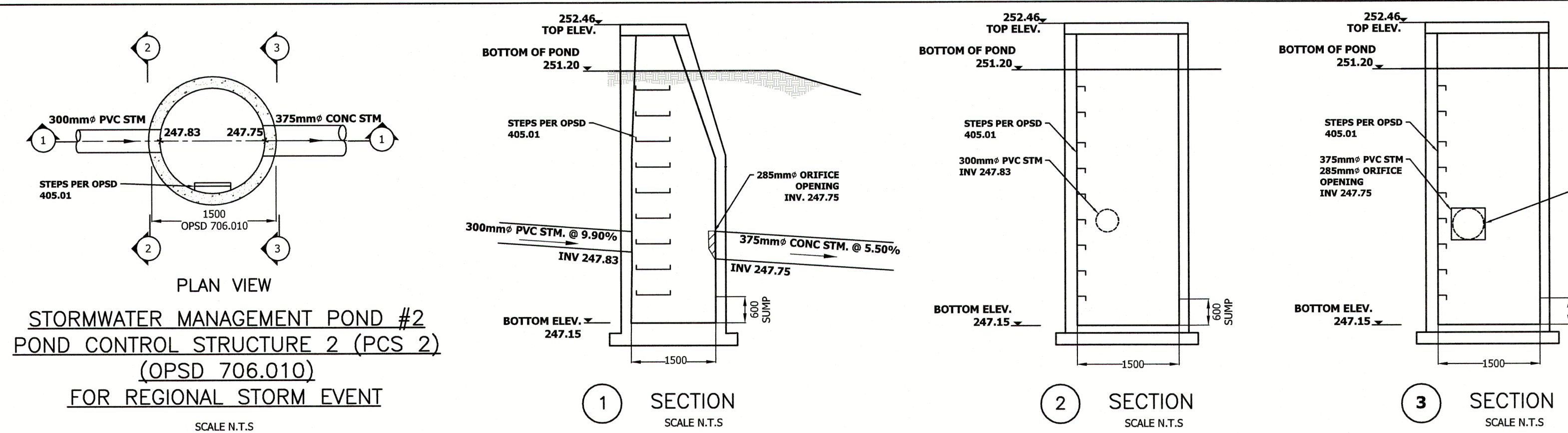
CONDELAND
 CONSULTING ENGINEERS & PROJECT MANAGERS
 350 Creditstone Road, Unit 200
 Concord, Ontario L4K 3Z2
 P: (905) 695-2096
 F: (905) 695-2099

TOWN OF HALTON HILLS
 Working Together Working For You!

Halton REGION

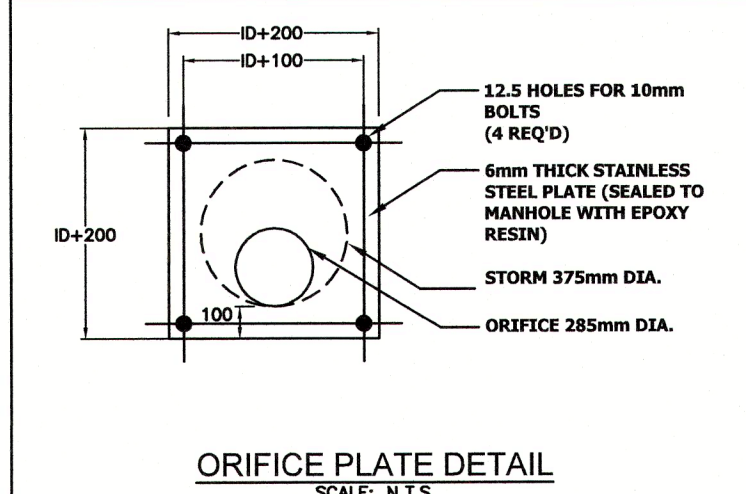
CREDIT STREET PLAN AND PROFILE
 STA. 0+216.01m to 0+380.00m

DESIGNED BY:	S.N./R.P.D.	DATE:	AUGUST 2019	CHECKED BY:	R.P.D.
DRAWN BY:	A.G./V.B.	DRAWING NO.	17021-17	CITY FILE:	
SCALE:	HOR 1:500 VER 1:100	Sheet:	17 OF 35	REGION FILE:	

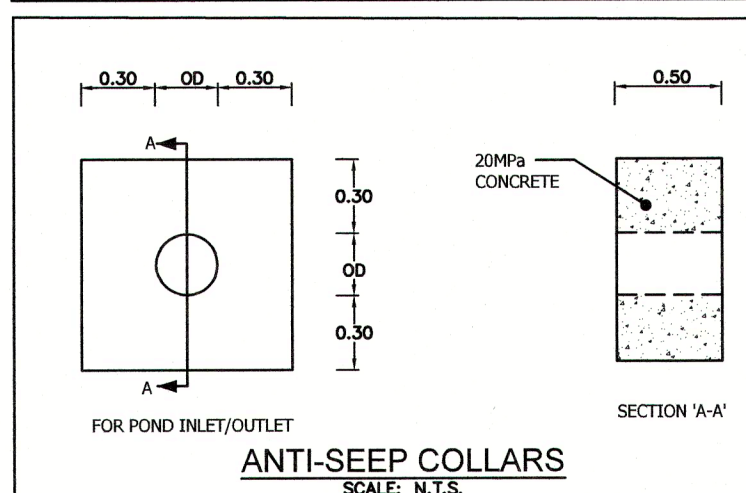


**STORMWATER MANAGEMENT POND #2
POND CONTROL STRUCTURE 2 (PCS 2)
(OPSD 706.010)
FOR REGIONAL STORM EVENT**

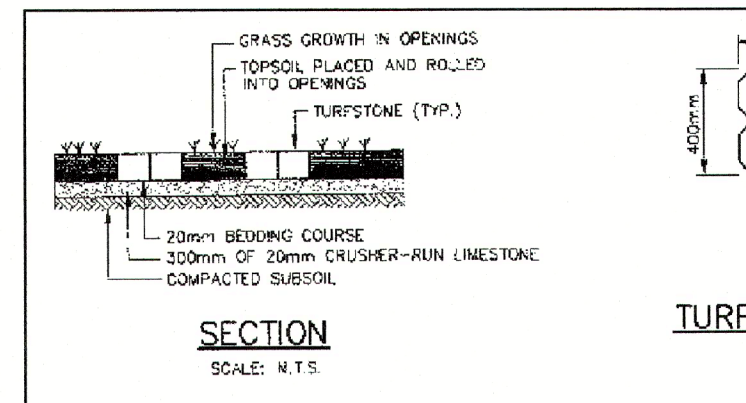
SCALE N.T.S.



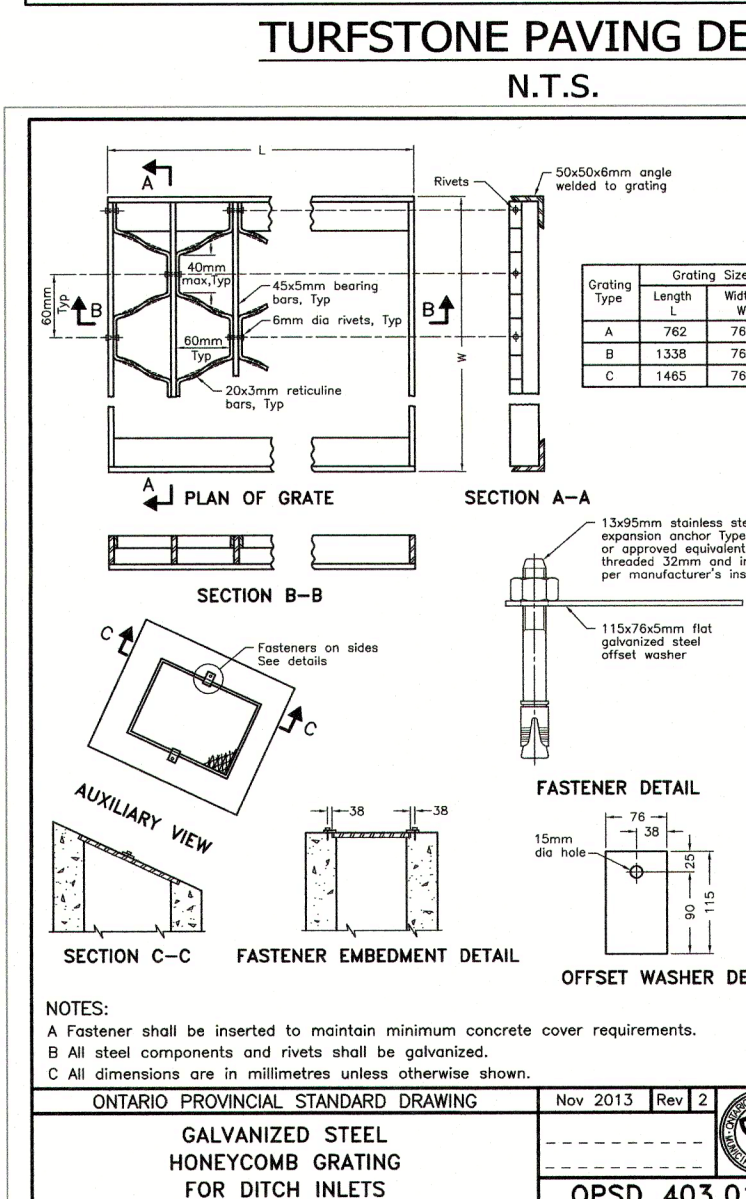
ORIFICE PLATE DETAIL
SCALE N.T.S.



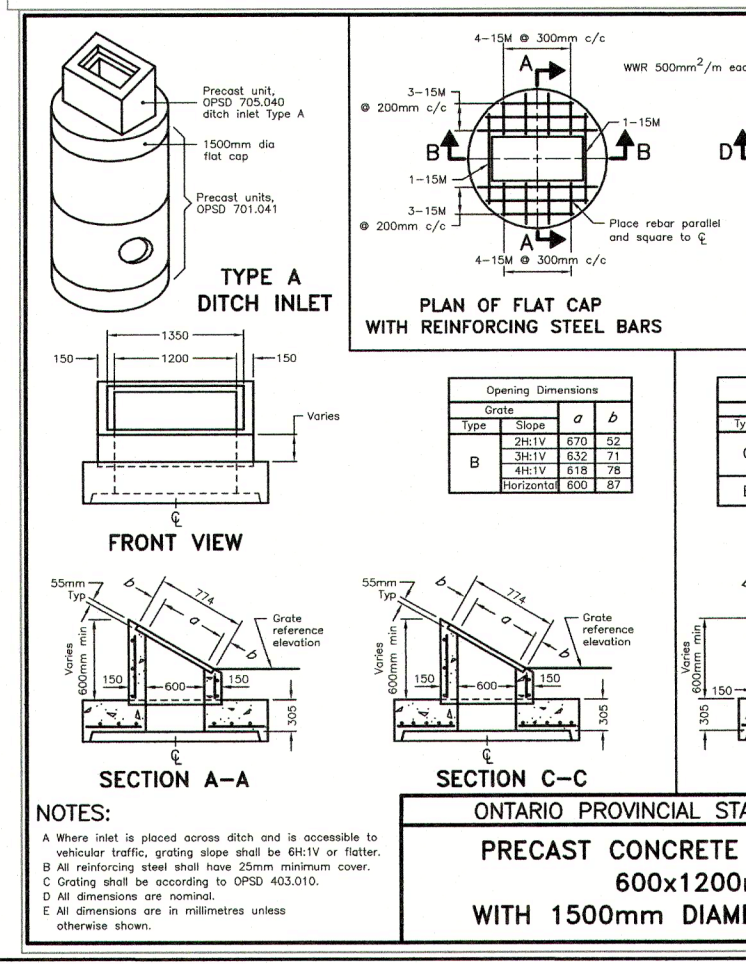
ANTI-SEEP COLLARS
SCALE N.T.S.



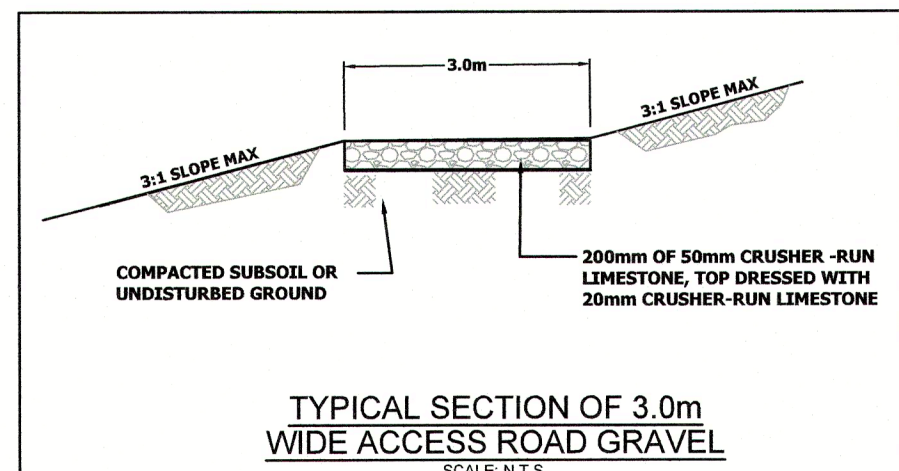
TURFSTONE PAVING DETAIL
SCALE N.T.S.



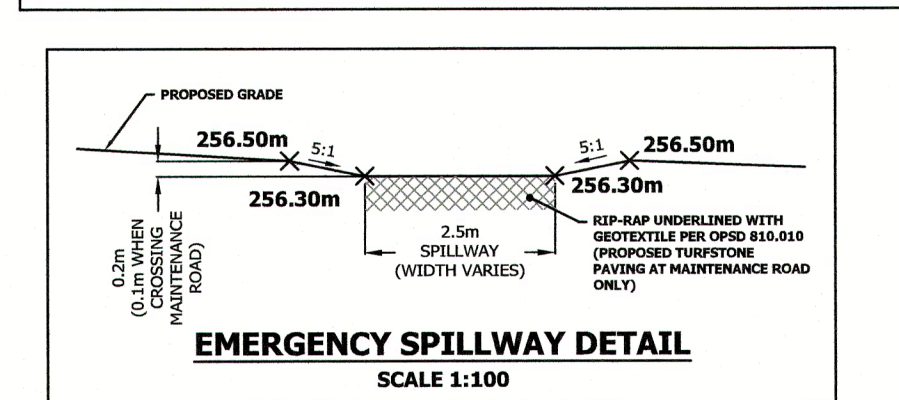
BOREHOLE No. 6
SCALE N.T.S.



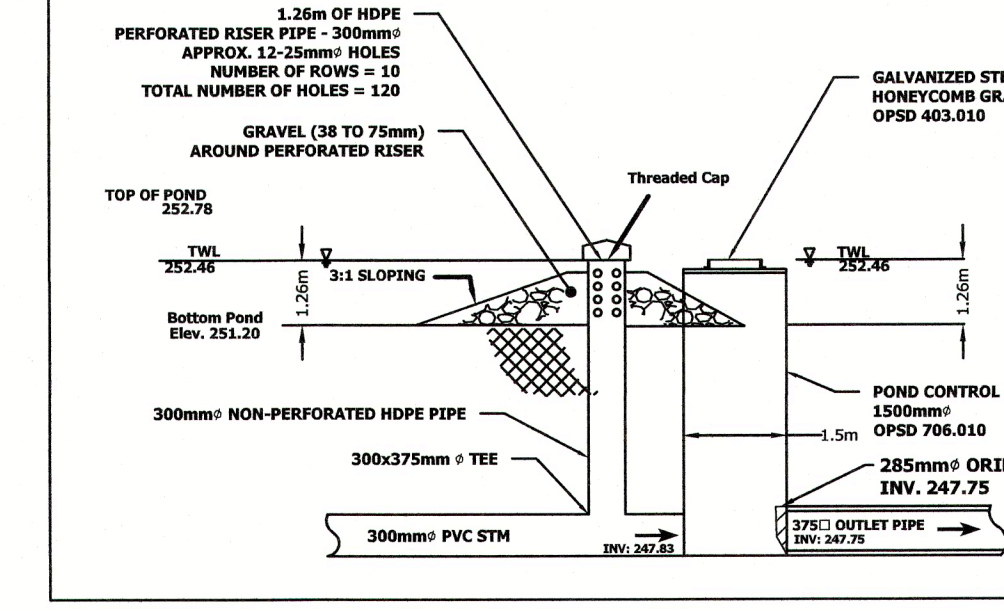
PRECAST CONCRETE DITCH INLETS
WITH 1500mm DIAMETER FLAT CAP
OPSD 706.010



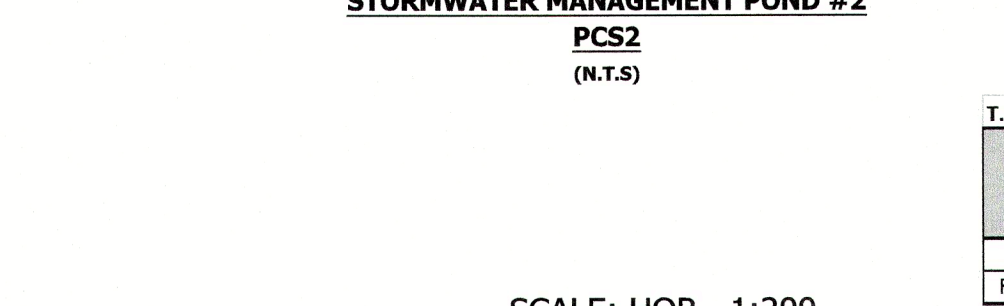
TYPICAL SECTION OF 3.0m
WIDE ACCESS ROAD GRAVEL
SCALE N.T.S.



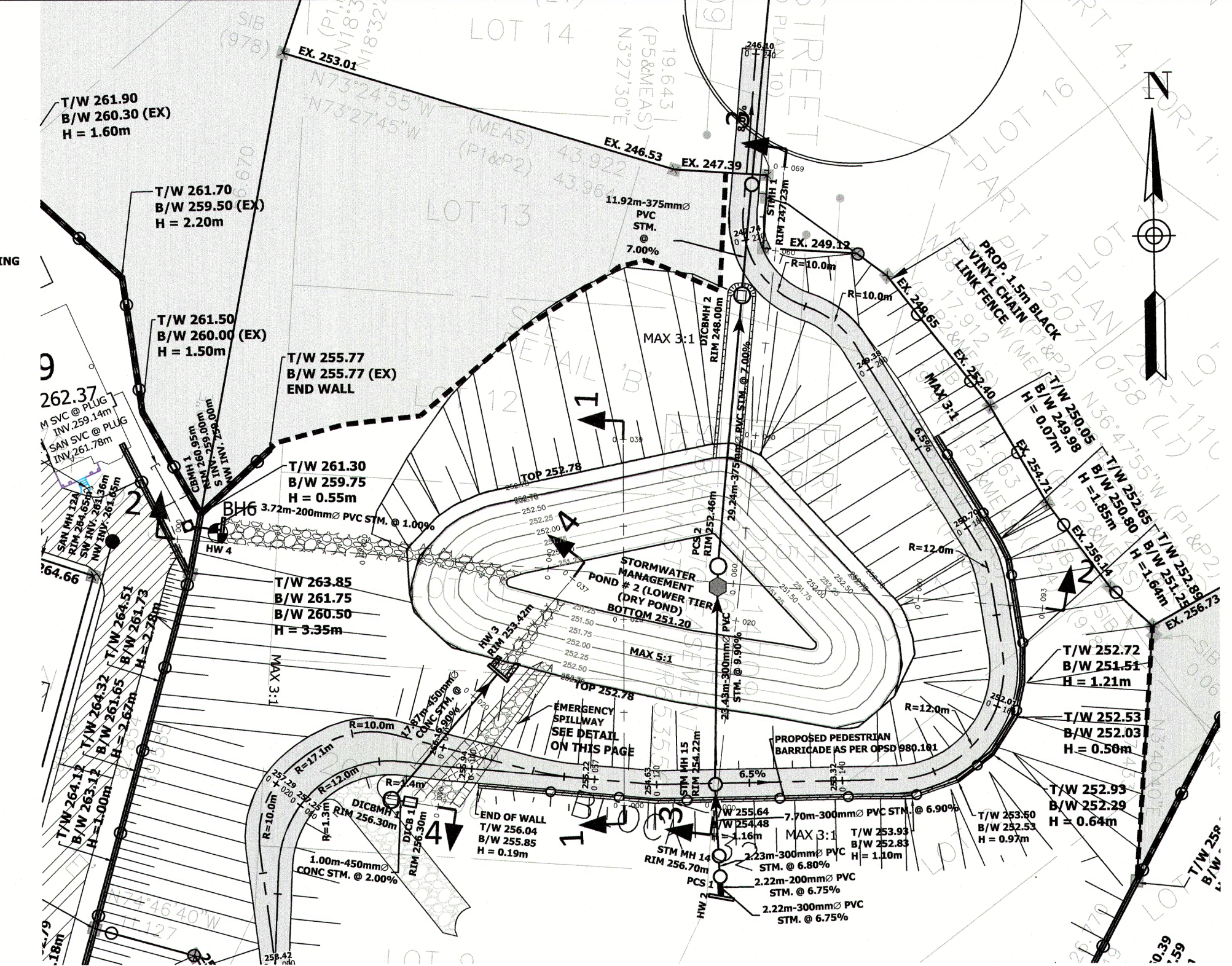
EMERGENCY SPILLWAY DETAIL
SCALE 1:100



STORMWATER MANAGEMENT POND #2
PCS2
(N.T.S.)



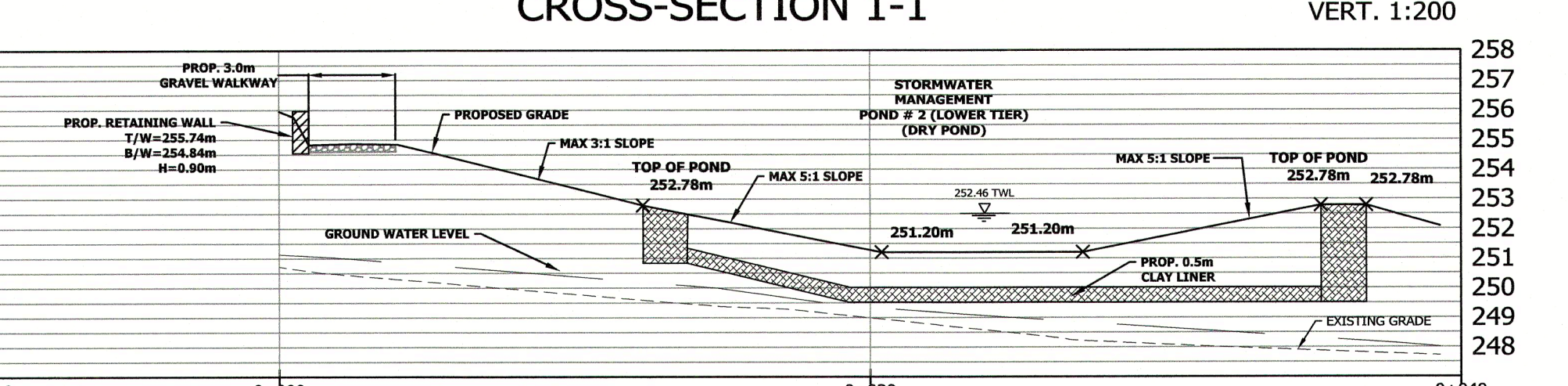
CROSS-SECTION 4-4
SCALE: HOR. 1:200
VERT. 1:200



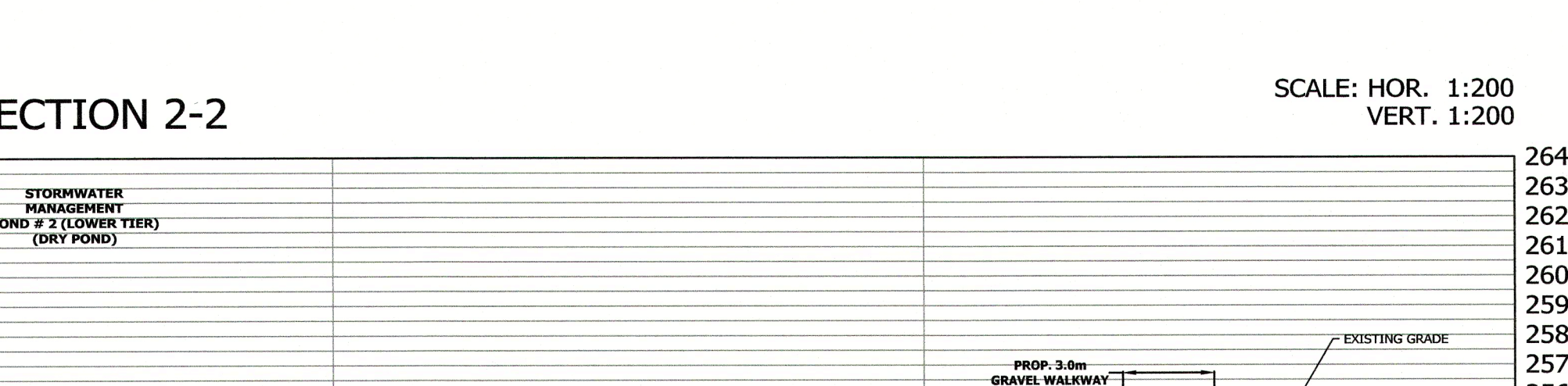
PLAN VIEW
SCALE: 1:500

Storm	Peak Discharge (cms)	ELEVATION (m)	STORAGE (cu.m.)	Depth of Active Storage (m)
Regional Hazel	0.368	252.46	621.5	1.26

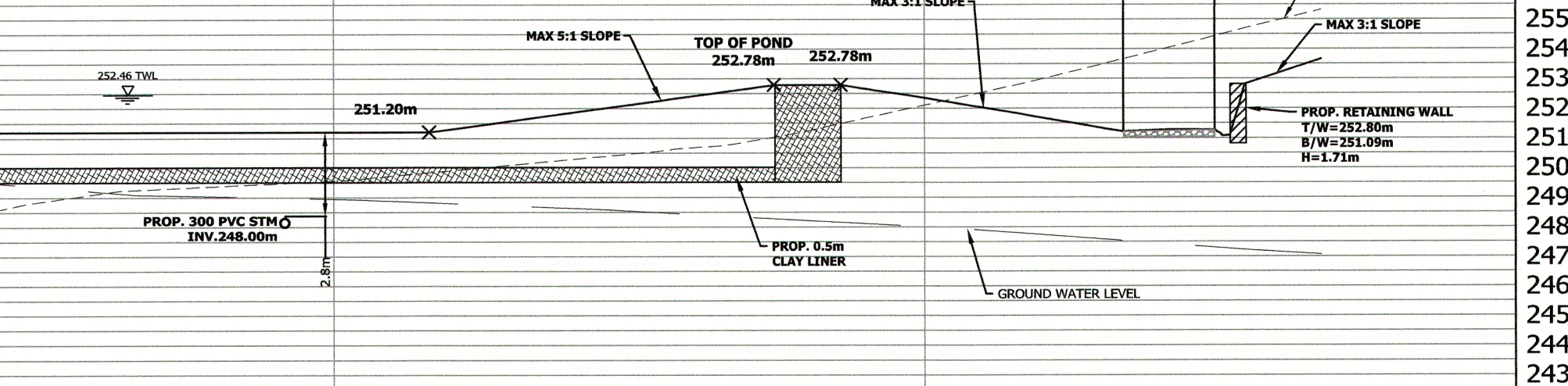
T.W.L. TABLE



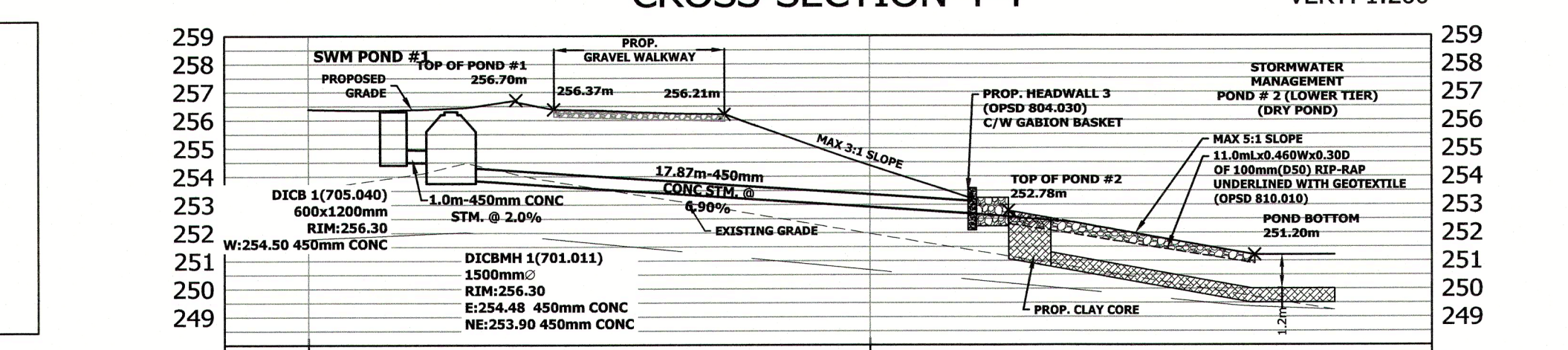
CROSS-SECTION 1-1
SCALE: HOR. 1:200
VERT. 1:200



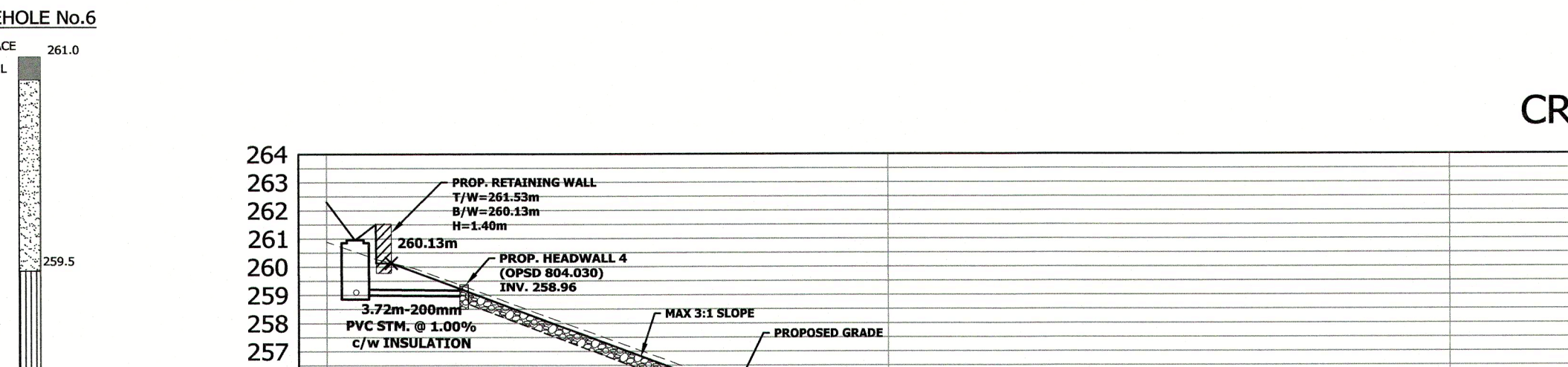
CROSS-SECTION 2-2
SCALE: HOR. 1:200
VERT. 1:200



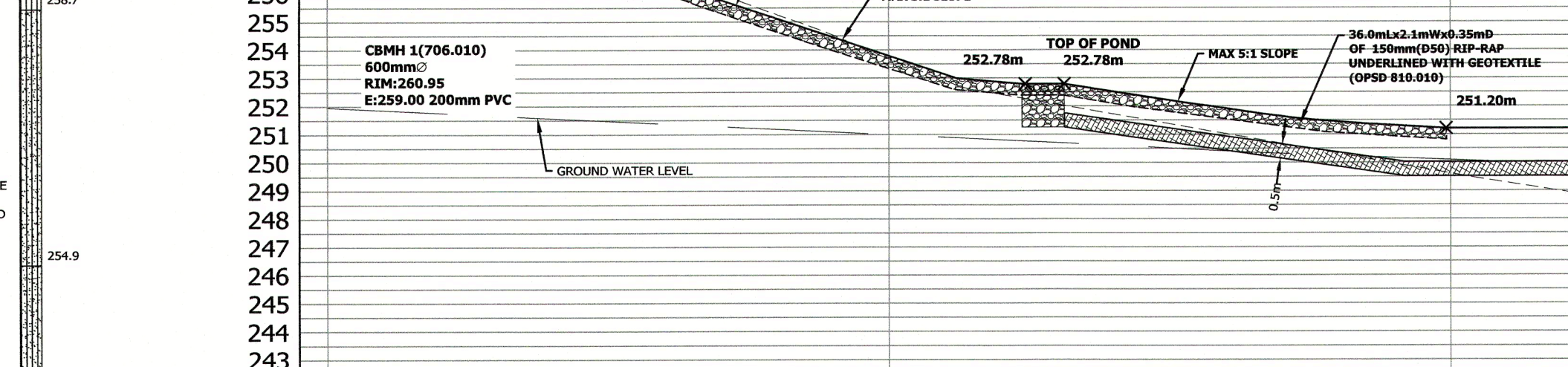
CROSS-SECTION 3-3
SCALE: HOR. 1:200
VERT. 1:200



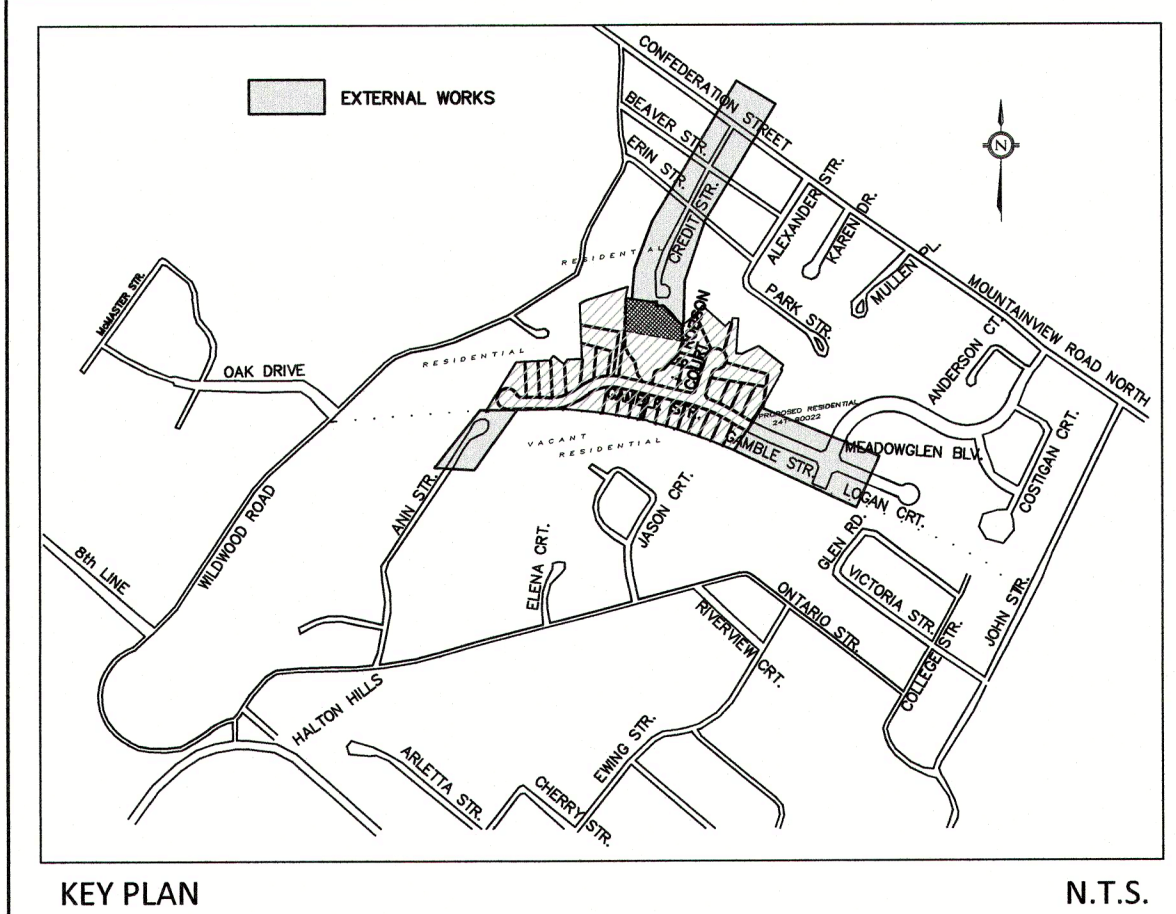
CROSS-SECTION 4-4
SCALE: HOR. 1:200
VERT. 1:200



CROSS-SECTION 2-2
SCALE: HOR. 1:200
VERT. 1:200



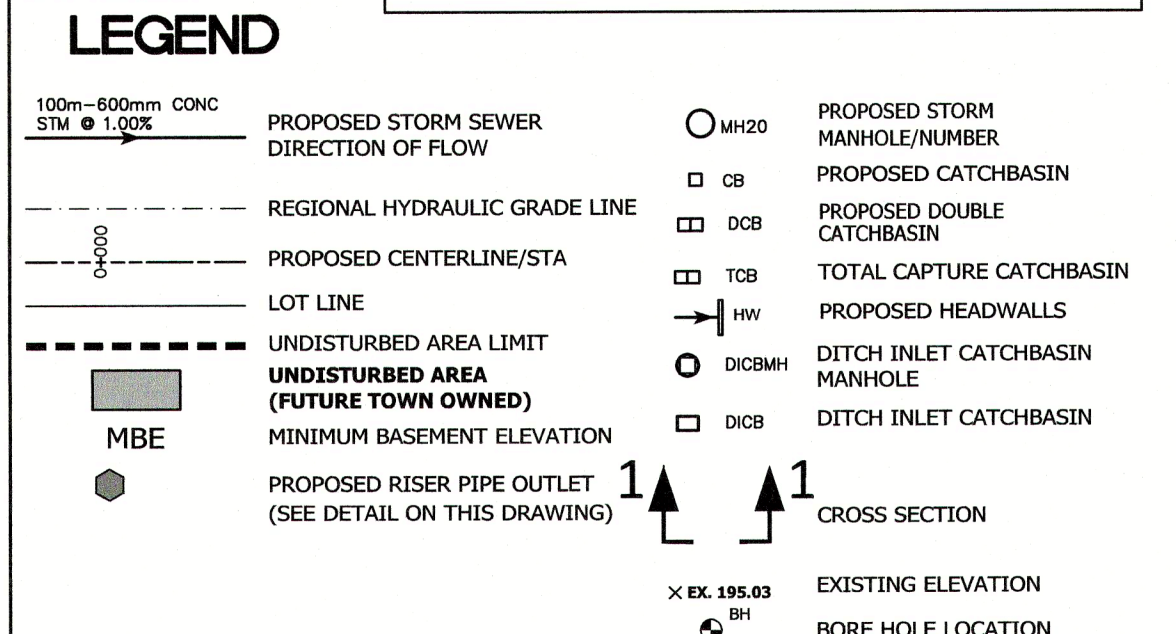
CROSS-SECTION 3-3
SCALE: HOR. 1:200
VERT. 1:200



KEY PLAN
N.T.S.

PLAN OF SURVEY ILLUSTRATING TOPOGRAPHY
PART OF POND LOT 14 AND
PART OF EAST STREET
CIVIL ENGINEERING CONSULTANTS
PART OF THE EAST HALF OF
LOT 20, CONCESSION 9

ISSUED FOR CONSTRUCTION



LEGEND

BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010). DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999995. FOR BEARING COMPARISONS, A ROTATION OF 0°48'10" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P1, P2, P3, P4, P5, P6, P7 AND P8. ELEVATION NOTE: ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM GEOLOGICAL SURVEY OF CANADA BENCH MARK: NO. 00119541598E ELEVATION=258.735m, No. 0081966836E ELEVATION=252.480m. LOCAL BENCHMARK: ELEVATIONS ON CONCRETE CURB ON WEST SIDE OF CREDIT STREET ELEVATION=240.9m. ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED. PIPE SIZES ARE IN MILLIMETRES.

REVISION	BLOCK	DESCRIPTION	DATE	APPR. BY
2.	ENGINEERING SUBMISSION #3		AUG/13/2019	R.P.D.
1.	ENGINEERING SUBMISSION #2		APRIL/3/2019	R.P.D.
0.	ENGINEERING SUBMISSION #1		MAY/5/2018	R.P.D.

REVISION BLOCK

EDEN OAK (CREDITVIEW HEIGHTS) INC.
24T-08001/H

MUNICIPAL DESIGN APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF HALTON HILLS STANDARDS AND SPECIFICATIONS.

REGIONAL MUNICIPALITY OF HALTON DESIGN OF WASTEWATER AND WATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON STANDARDS AND SPECIFICATIONS AND LOCATION APPROVAL FROM AREA MUNICIPALITY.

SIGNED: [Signature] ENGINEERING & PUBLIC WORKS
DATE: [Date]

SIGNED: [Signature] PLANNING & PUBLIC WORKS DEPARTMENT
DATE: [Date]

DESIGNED: [Signature] APPROVED: [Signature]

PROFESSIONAL ENGINEER M.E. HALL
PROFESSIONAL ENGINEER R.P. DE ANGIOLIS

AUG/13/2019 AUG/13/2019

PROVINCE OF ONTARIO PROVINCE OF ONTARIO

CONDELAND CONSULTING ENGINEERS & PROJECT MANAGERS

350 Creditstone Road, Unit 200 Concord, Ontario L4K 3Z2 P: (905) 695-2096 F: (905) 695-2099

TOWN OF HALTON HILLS Working Together Working for You!

Halton REGION

STORMWATER MANAGEMENT POND #2 (LOWER TIER)

DESIGNED BY: S.N./R.P.D. DATE: AUGUST 2019 CHECKED BY: R.P.D.

DRAWN BY: A.G./V.B. DRAWING NO. 17021-21 CITY FILE:

SCALE: AS NOTED Sheet: 21 OF 35 REGION FILE:

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

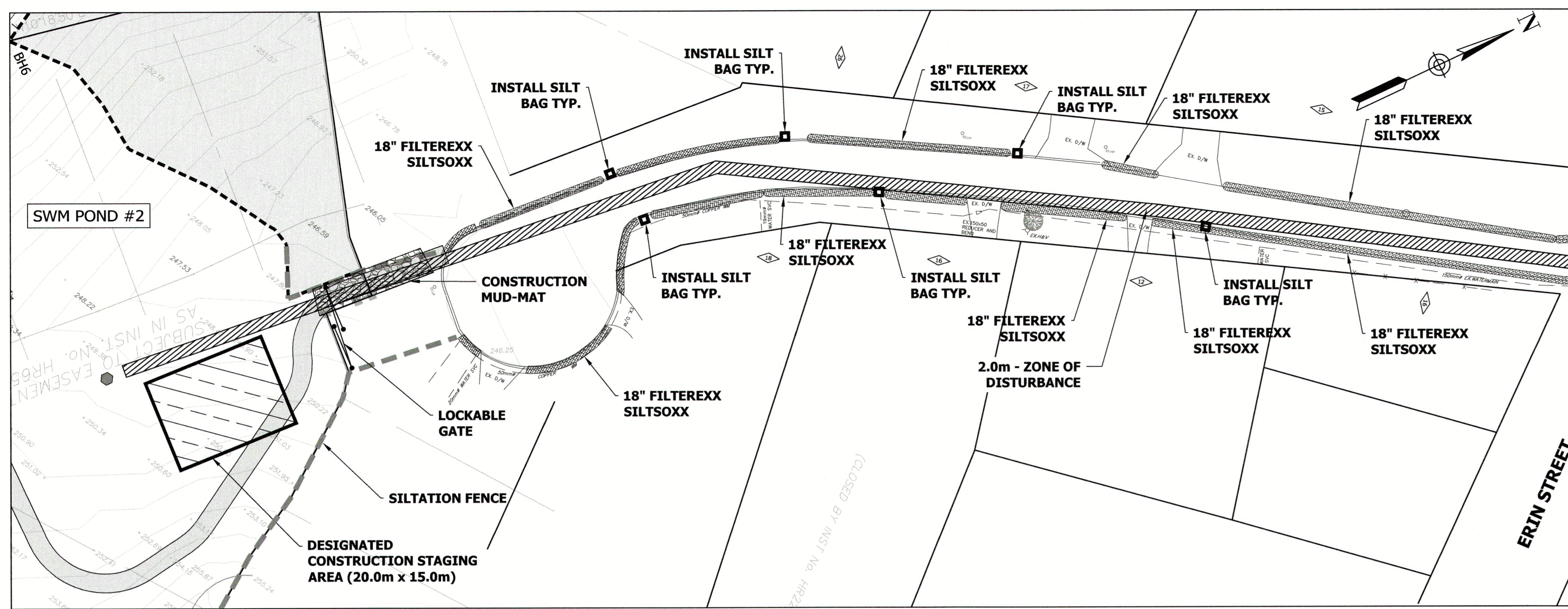
CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.

CLAY LINER AND BERMING WORKS WILL BE CONSTRUCTED WITH THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT.



CREDIT STREET
SEE DWG. 17-021-29

NOTE:
IN ACCORDANCE WITH THE MBCA ALL VEGETATION CLEARING IS TO BE AVOIDED BETWEEN APRIL 1ST TO OCTOBER 31ST OF A GIVEN YEAR.

NOTE:
FOR CONSTRUCTION STAGING PLEASE REFER TO CONSTRUCTION MANAGEMENT REPORT.

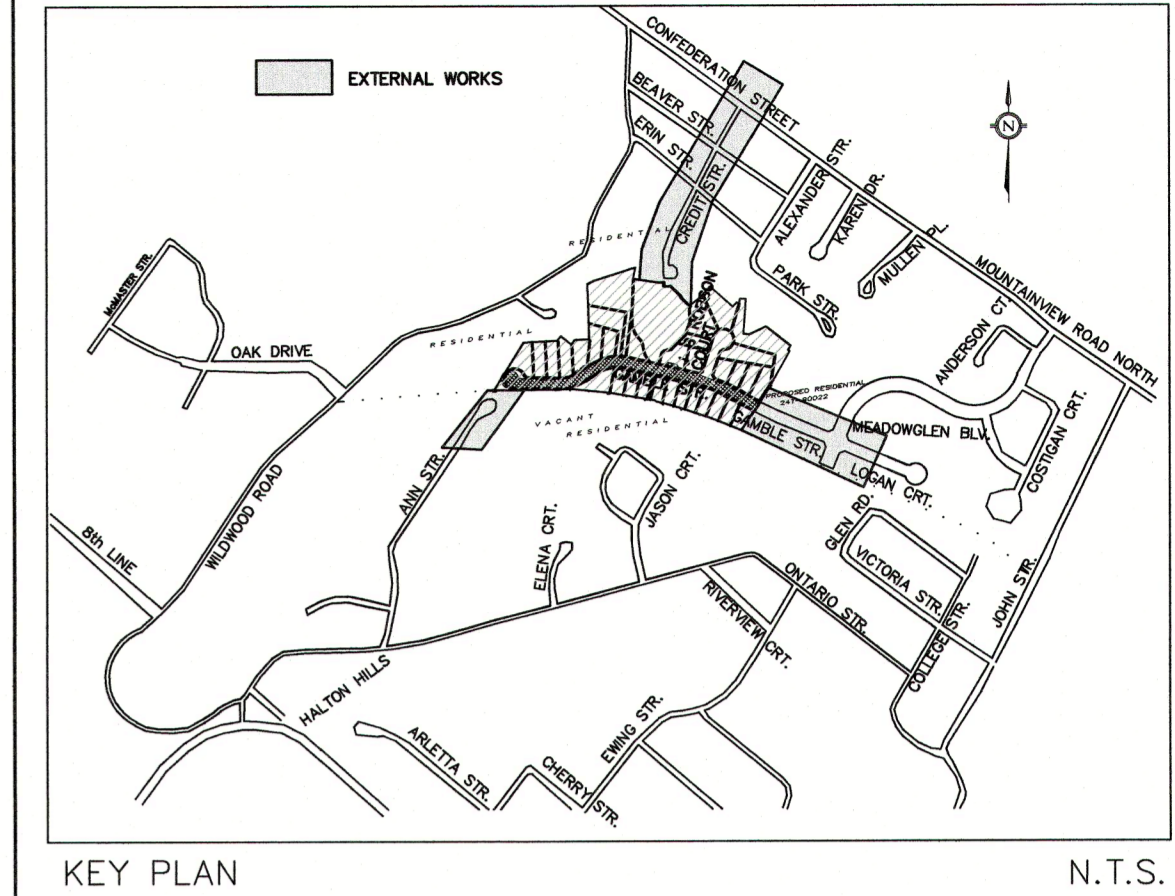
SITE ACCESS AND PARKING
ALL PARTIES EMPLOYED TO WORK AT THE PROJECT SITE WILL USE THEIR BEST EFFORTS TO MINIMIZE DISRUPTION TO LOCAL TRAFFIC CAUSED BY SITE ACCESS AND ROUTING. SITE STAFF WILL ENSURE THAT SURROUNDING ROADWAYS AND DRIVEWAYS ARE NOT BLOCKED BY PARTIES WORKING AT THE SITE OR ANY PARTIES DELIVERING MATERIALS TO, OR REMOVING MATERIALS FROM, THE SITE. ALL LOADING AND UNLOADING SHALL TAKE PLACE WITHIN THE SITE'S BOUNDARY. PARKING IS ALLOWED ALONG ERIN STREET AND BEAVER STREET. HOWEVER, CONSTRUCTION TRADES AND EMPLOYEES ARE ASKED TO BE MINDFUL THAT CREDIT STREET AND SURROUNDING STREETS ARE NARROW RESIDENTIAL ROADS. PLEASE NOTE THAT THERE ARE OVERHEAD ELECTRICAL WIRES ALONG CREDIT STREET THAT THE CONTRACTOR MUST BE AWARE OF DURING THE CONSTRUCTION ACTIVITIES AT ALL TIMES.

EROSION AND SEDIMENT CONTROL
HEAVY DUTY SILT FENCES WILL BE INSTALLED TO ENCLOSE THE ENTIRE SITE PERIMETER IN ACCORDANCE WITH THE TOWN AND REGIONS REQUIREMENTS. THE CONSTRUCTION AREA ARE TO BE PROTECTED VIA FILTEREXX SILT SOXX. REGULAR MAINTENANCE AND ALL NECESSARY REPAIRS SHALL BE PERFORMED INCLUDING THE SAFE DISPOSAL OF ALL SEDIMENT MATERIAL. MAINTENANCE, WHICH IN MOST CASES WILL REQUIRE THE REMOVAL OF SEDIMENT AND THE INSTALLATION OF A NEW DEVICE, WHICH SHALL BE CONDUCTED WHEN THE LEVEL OF PERFORMANCE OF THE IMPLEMENTED CONTROL DEVICE IS REDUCED TO LESS THAN 40% OF ITS INITIAL CAPACITY BASED ON THE ENGINEERS OBSERVATION.

FILTEREXX SILT SOXX WILL BE INSTALLED BY ANCHORING/SECURING OF THE SILT SOXX INTO THE GROUND WITH STAKES. THIS MEASURE WILL REMAIN IN PLACE UNTIL SEDIMENT MIGRATION IS NO LONGER A CONCERN. AN EROSION AND SEDIMENT CONTROL PLANS FOR THE WORKS, WILL REMAIN IN FORCE THROUGHOUT THE PROJECT.

DUST & MUD CONTROL
DUST WILL BE CONTROLLED USING A VARIETY OF TECHNIQUES AS REQUIRED BASED ON BOTH CONDITIONS OF THE SITE AND THE WEATHER. DURING EARTHWORKS, THE SITE SUPERVISOR WILL ASSESS THE DUST BEING GENERATED BY SITE ACTIVITY. IF DEEMED NECESSARY, A WATER TRUCK WILL BE DEPLOYED TO THE SITE TO APPLY WATER. IN SOME CASES, WERE WATER TRUCKS CANNOT BE USED, WE WILL PLACE CALCIUM CHLORIDE AS REQUIRED. IF THE FORECAST CALLS FOR WINDY CONDITIONS AND WORK IS SCHEDULED TO OCCUR, A WATER TRUCK WILL BE DEPLOYED TO THE SITE. IN SITUATIONS WHERE MUD IS TRACKED ONTO CREDIT STREET AND SURROUNDING STREETS, A FLUSHER TRUCK OR STREET SWEEPER WILL BE DISPATCHED TO THE SITE, DEPENDING ON WEATHER CONDITIONS. WHEN MATERIAL IS BEING EXPORTED OR IMPORTED INTO THE SITE, THE SWEEPER/FLUSHER WILL BE DEPLOYED TOWARDS THE END OF EACH WORKING DAY. AT A MINIMUM, THE ROAD WILL BE CLEANED ONCE A WEEK, AND, AS OTHERWISE REQUIRED TO ENSURE A CLEAN ROAD SURFACE THAT IS FREE OF DUST, MUD AND DEBRIS. THIS SCHEDULE CAN BE INCREASED IF DEEMED NECESSARY AND AS EARTHWORKS AND SERVICING PROGRESSES. THE ROAD SHALL BE MAINTAINED IN A CONDITION THAT IS DEEMED ACCEPTABLE TO THE TOWN. THE SITE SERVICING CONTRACTOR SHALL BE RESPONSIBLE TO MOBILIZE THE APPROPRIATE EQUIPMENT TO ENSURE THE CONTINUED CLEANLINESS OF THE ROAD AND ALL EXPENSES ASSOCIATED WITH THIS RESPONSIBILITY WILL BE BORNE EXCLUSIVELY BY THE SITE SERVICING CONTRACTOR.

NOTES:
1. THE ESC STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT. THE CVC ENFORCEMENT OFFICE WILL BE CONTACTED IMMEDIATELY SHOULD THE EROSION AND SEDIMENT CONTROL PLANS CHANGE FROM THE APPROVED PLANS. FAILED ESC MEASURES WILL BE REPAIRED IMMEDIATELY.
2. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED 30 METERS FROM THE WATER.



PLAN OF SURVEY ILLUSTRATING TOPOGRAPHY
PART OF PARK LOT 3 AND PART OF ANN STREET
CANNAN'S UNREGISTERED PLAN
PART OF THE EAST HALF OF LOT 20, CONCESSION 9

ISSUED FOR CONSTRUCTION

LEGEND

- EXISTING WATERMAIN
- EXISTING WATER VALVE & BOX
- EXISTING HYDRANT
- EXISTING HYDRO POLE
- EXISTING STOP SIGN
- EXISTING STREET NAME SIGN
- EXISTING FENCE
- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- EXISTING CATCH-BASIN MANHOLE
- EXISTING WATERMAIN MANHOLE
- EXISTING TREE
- MUNICIPAL ADDRESS
- PROPOSED SILT AND TREE PROTECTION FENCE BSD-23 DRAFT DESIGNATED MATERIAL
- CONSTRUCTION STAGING AREA
- PROPOSED MUD-MAT

BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0). DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999956. FOR BEARING COMPARISONS, A ROTATION OF 00°48'10" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P1, P2, P3, P4, P5, P6, P7 AND P8.

ELEVATION NOTE
ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM GEOLOGICAL SURVEY OF CANADA BENCH MARK: No. 0011954U598F ELEVATION=258.735m, No. 0081968351 ELEVATION=252.480m LOCAL BENCHMARK
GUTTERS ON CONCRETE CURB ON WEST SIDE OF CREDIT STREET ELEVATION=240.91m
ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED PIPE SIZES ARE IN MILLIMETRES

2.	ENGINEERING SUBMISSION #3	AUG/13/2019	R.P.D.
1.	ENGINEERING SUBMISSION #2	APRIL/3/2019	R.P.D.
0.	ENGINEERING SUBMISSION #1	MAY/5/2018	R.P.D.
REVISION	BLOCK	DATE	APPR. BY

EDEN OAK (CREDITVIEW HEIGHTS) INC.
24T-08001/H

MUNICIPAL DESIGN APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF HALTON HILLS STANDARDS AND SPECIFICATIONS.

REGIONAL MUNICIPALITY OF HALTON DESIGN OF WASTEWATER AND WATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON STANDARDS AND SPECIFICATIONS AND LOCATION APPROVAL FROM AREA MUNICIPALITY.

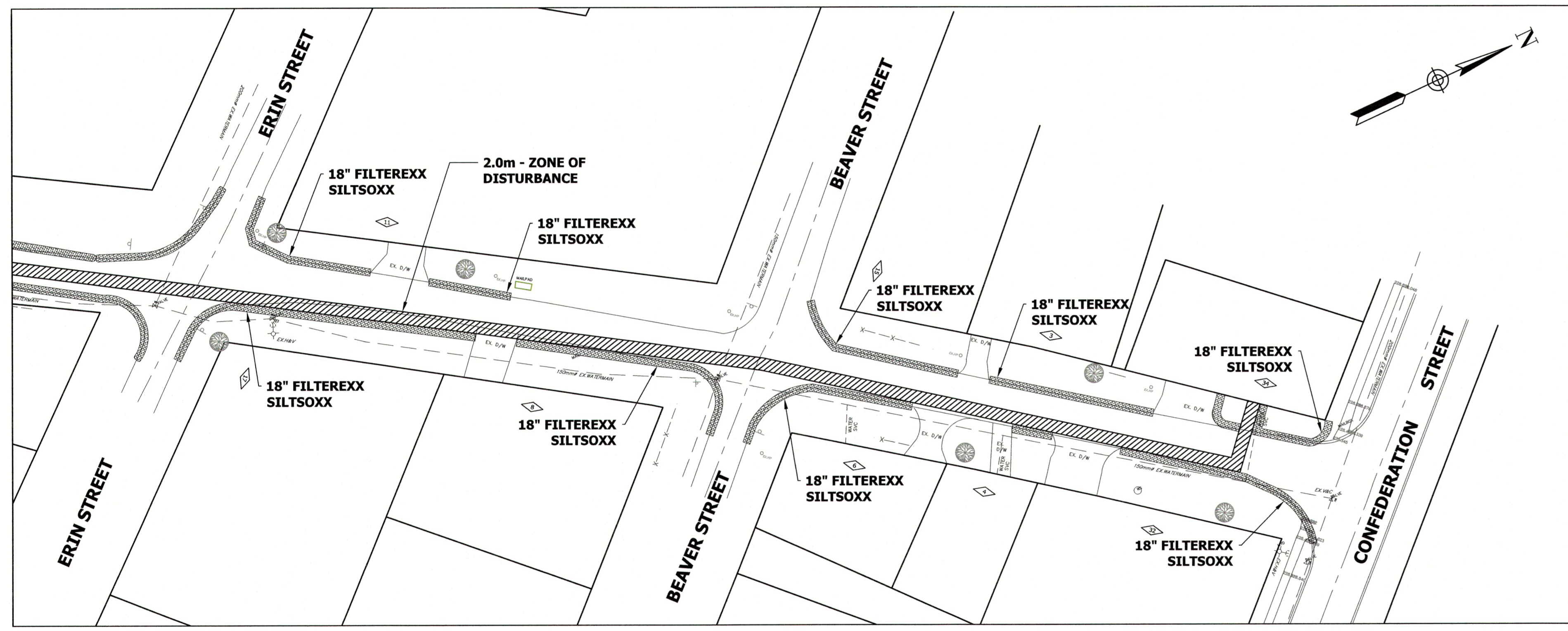
SIGNED: M.E. HALL
ENGINEERING & PUBLIC WORKS
DATE: 08/11/19

SIGNED: R.P. DE ANELIUS
PLANNING & PUBLIC WORKS DEPARTMENT
DATE: AUG/13/2019

DESIGNED: M.E. HALL
PROFESSIONAL ENGINEER
AUG/13/2019
PROVINCE OF ONTARIO

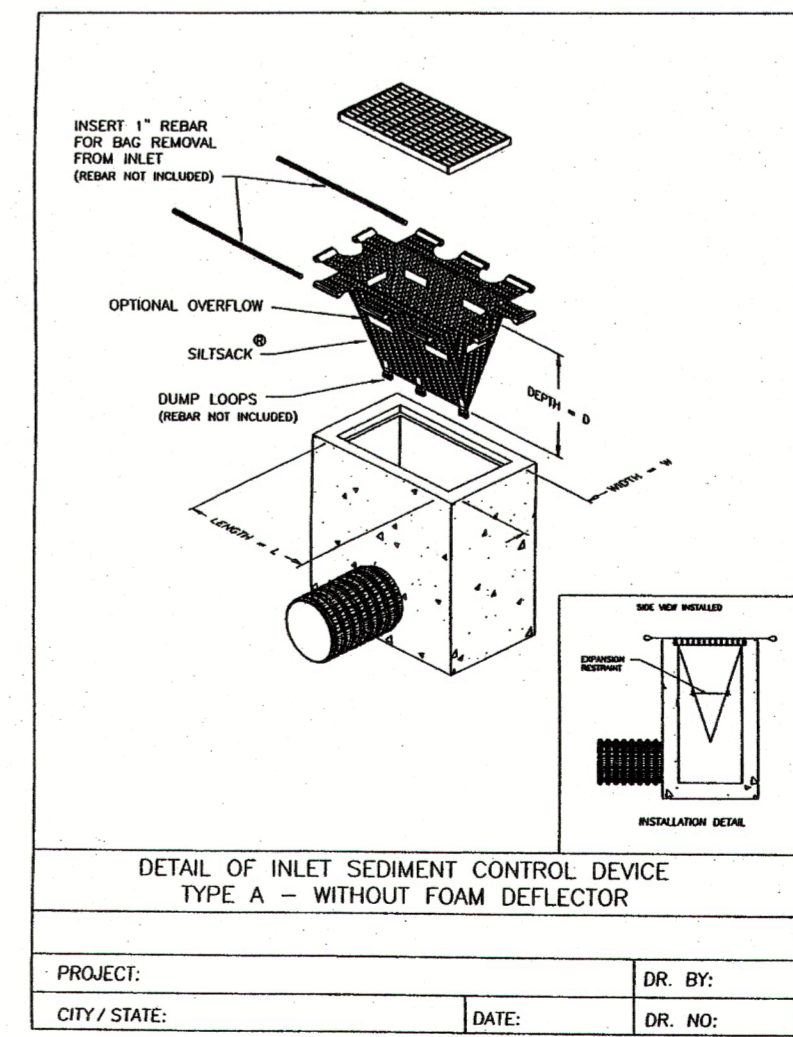
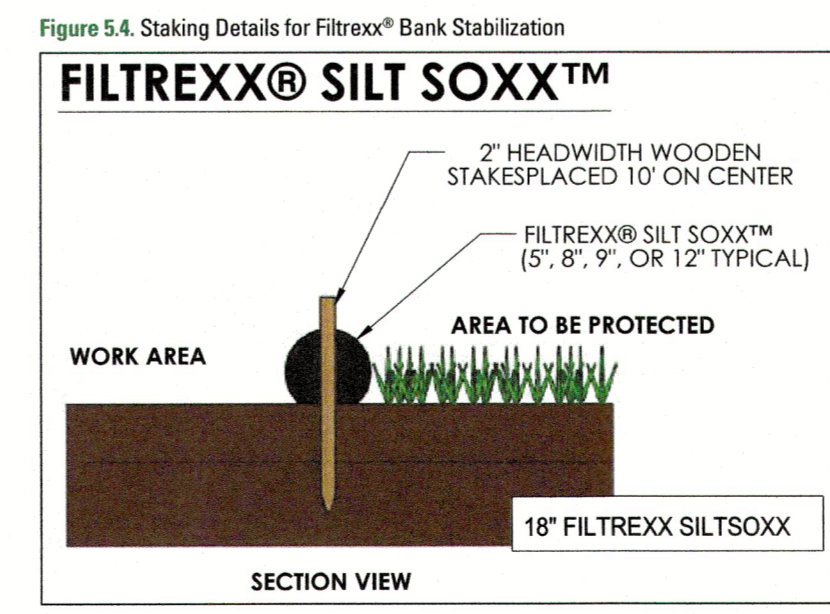
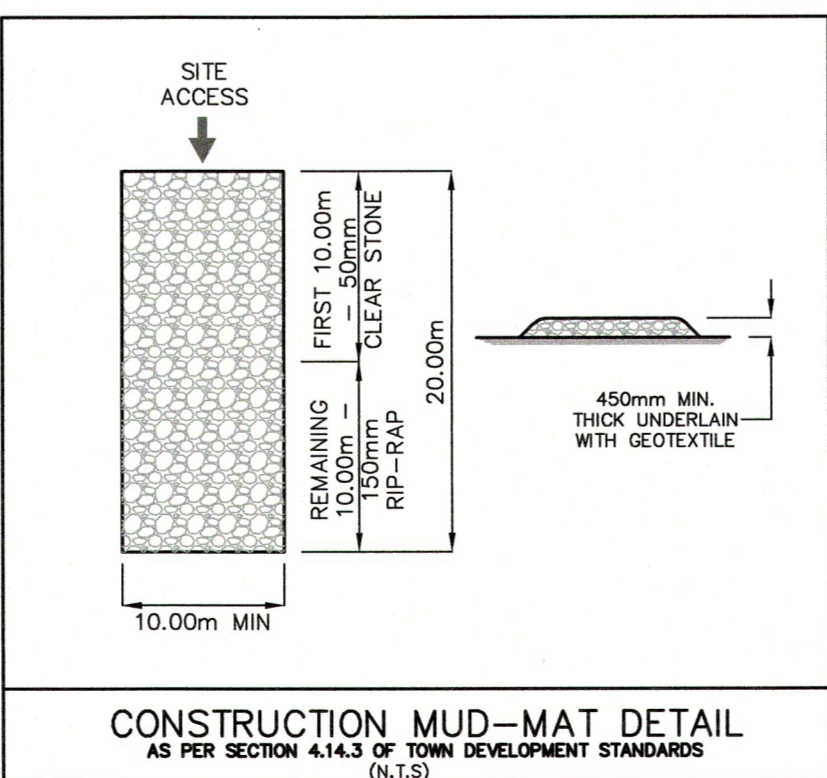
APPROVED: R.P. DE ANELIUS
PROFESSIONAL ENGINEER
AUG/13/2019
PROVINCE OF ONTARIO

CREDIT STREET
SEE DWG. 17-021-29



	ESTIMATED DURATION	ANTICIPATED START	ANTICIPATED END
Erosion and Sediment Control Set Up	3 days	Sep/Oct 2019	Oct 2019
STORM SEWER			
STM Sewer Installation	3 week	Oct 2019	Oct 2019
ROAD RESTORATION (Completed concurrently with storm sewer)			
Road Restoration	3 week	Oct 2019	Oct 2019

ESC MEASURE	TIMING FOR INSTALLATION	INSPECTION / MAINTENANCE REQUIREMENTS	TIMING FOR REMOVAL
Existing Road Excavation/Restoration and Storm Sewer Construction along Credit Street			
- Heavy Duty Siltation Control Fence (OPSD 219.130)		Consultant to arrange inspection with Town Staff once installation is complete. Consultant to undertake weekly inspections and after each rainfall event, including weekly reporting. Regular maintenance to remove accumulated sediment once 40% of capacity.	After all STM sewer works and restoration works has been completed.
- Filterexx Siltsoxx (illustrated on ESC drawing)	Prior to trench excavating		
- Others as required by Town or CVC	Prior to trench excavating		



CONDELAND
CONSULTING ENGINEERS & PROJECT MANAGERS
350 Creditstone Road, Unit 200
Concord, Ontario L4K 3Z2
P: (905) 695-2096
F: (905) 695-2099

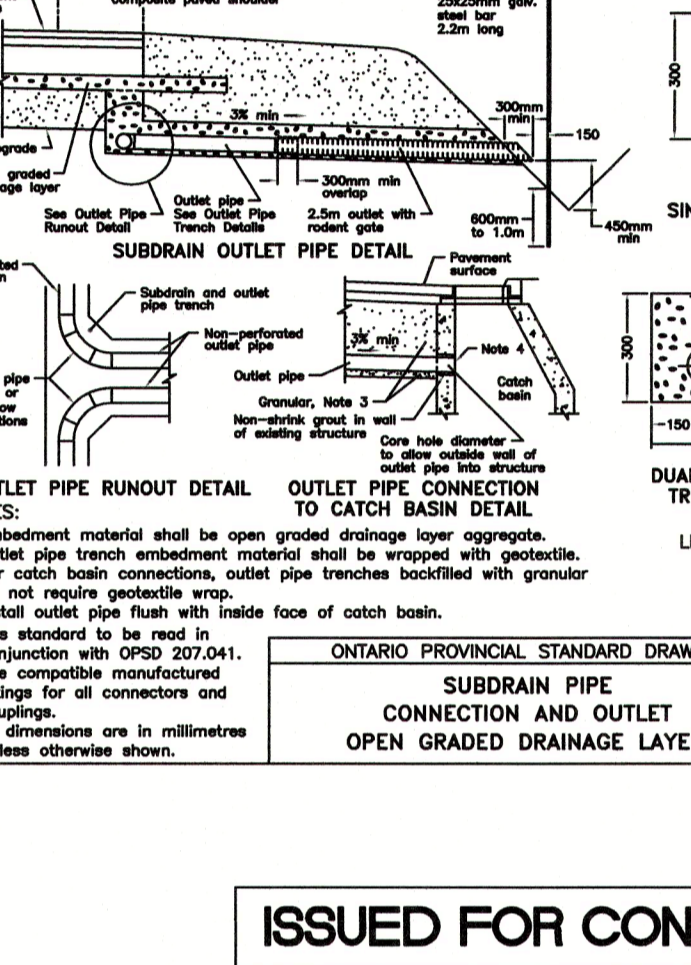
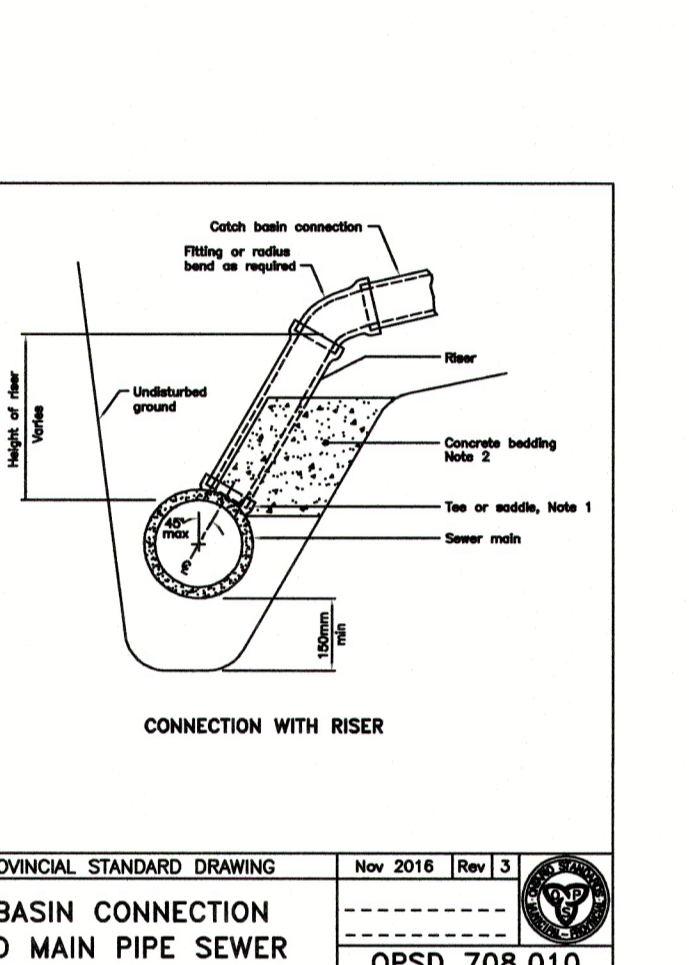
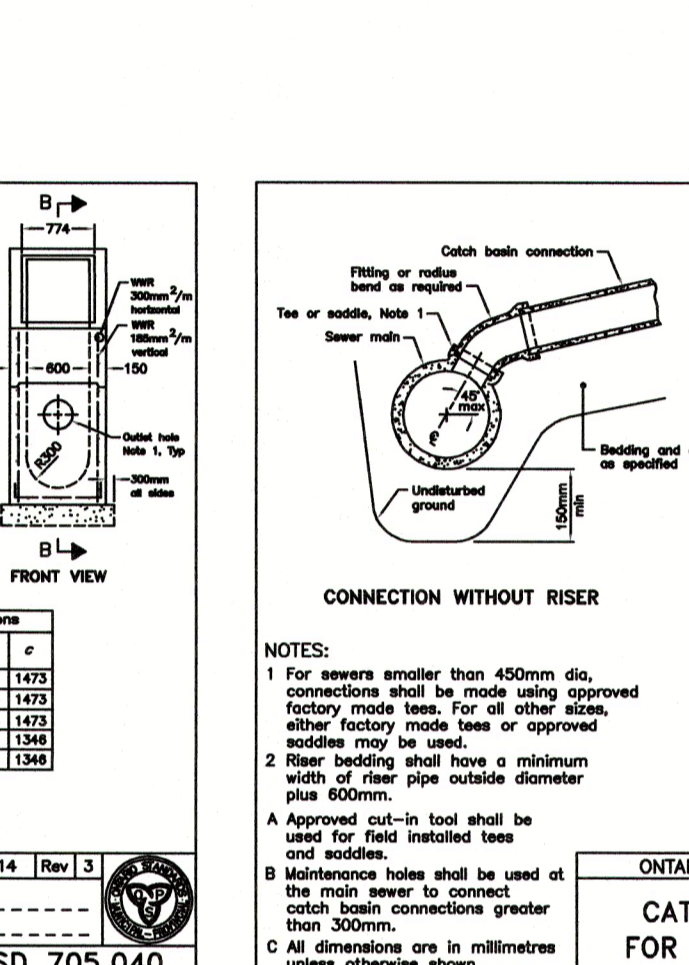
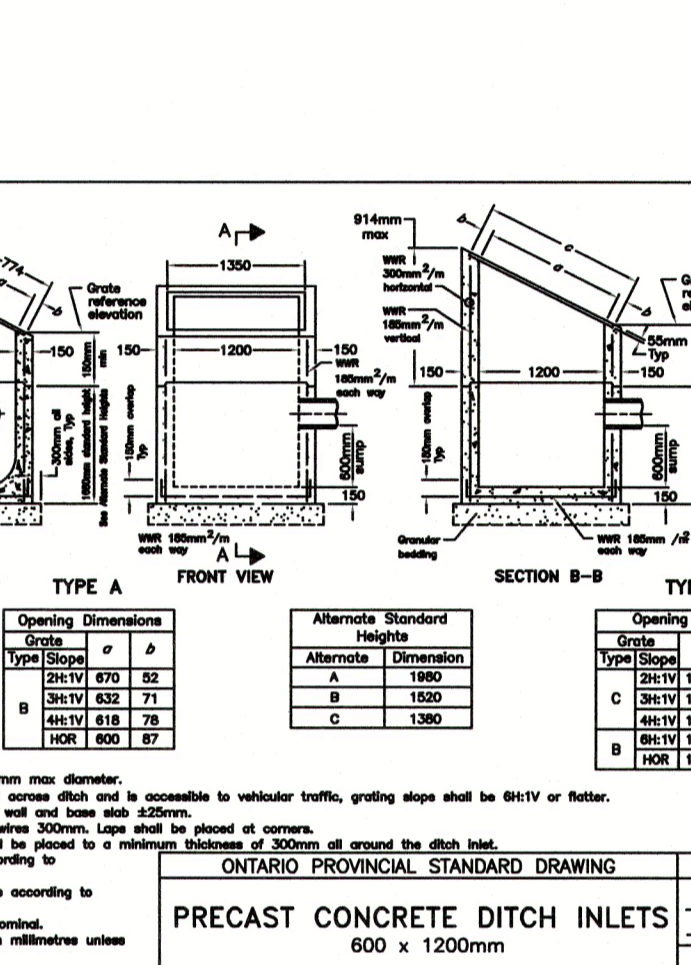
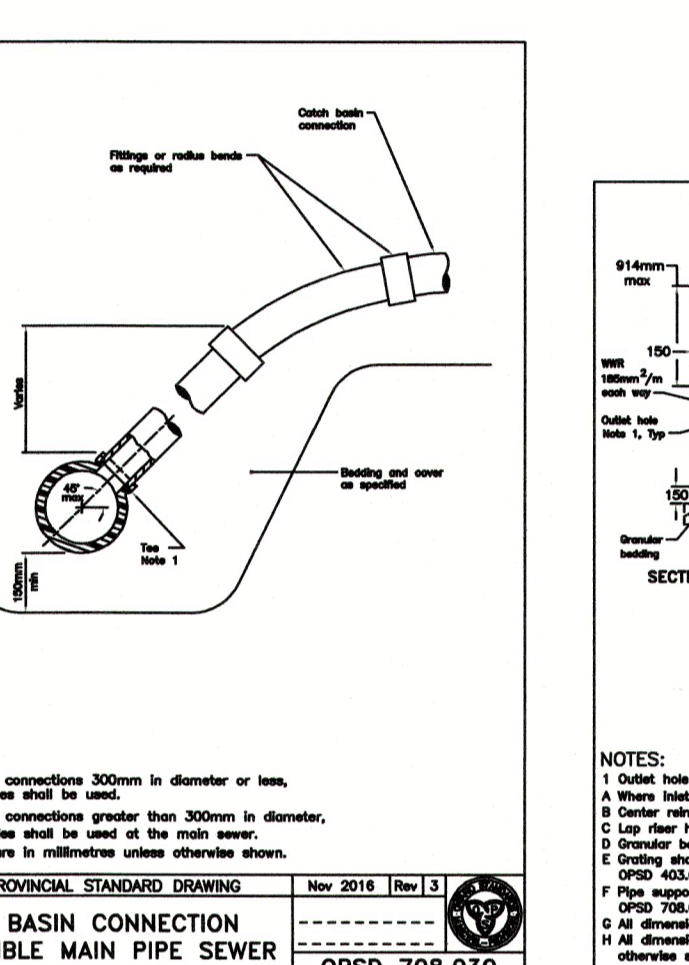
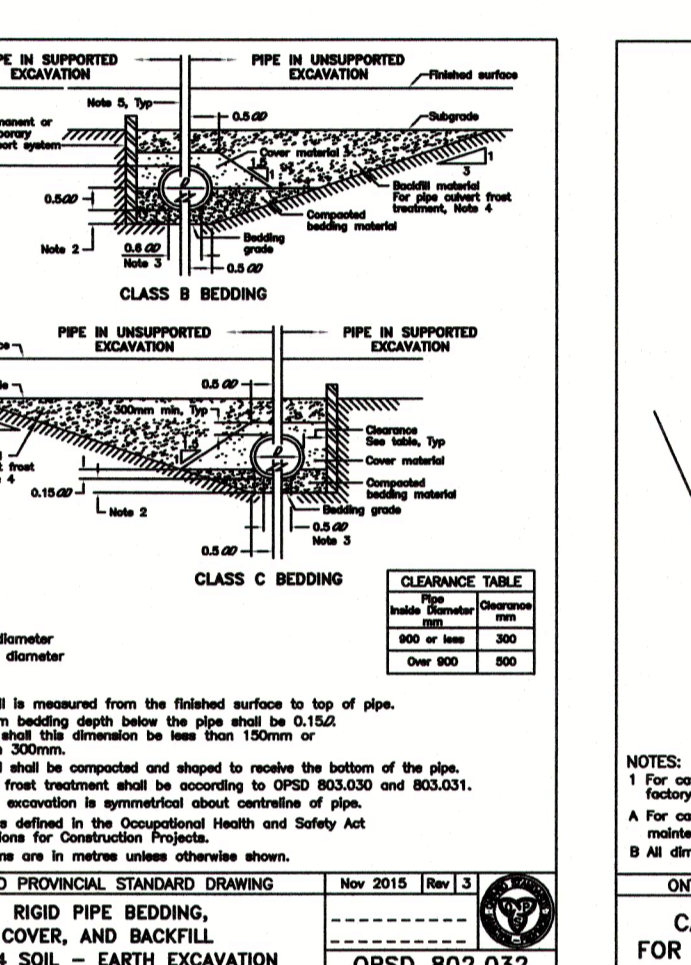
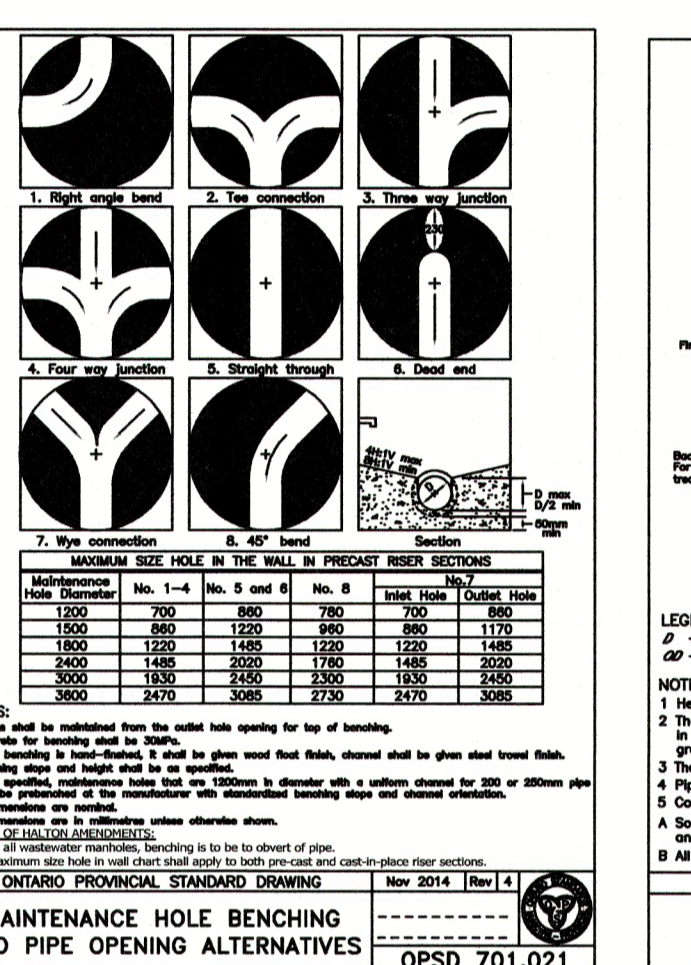
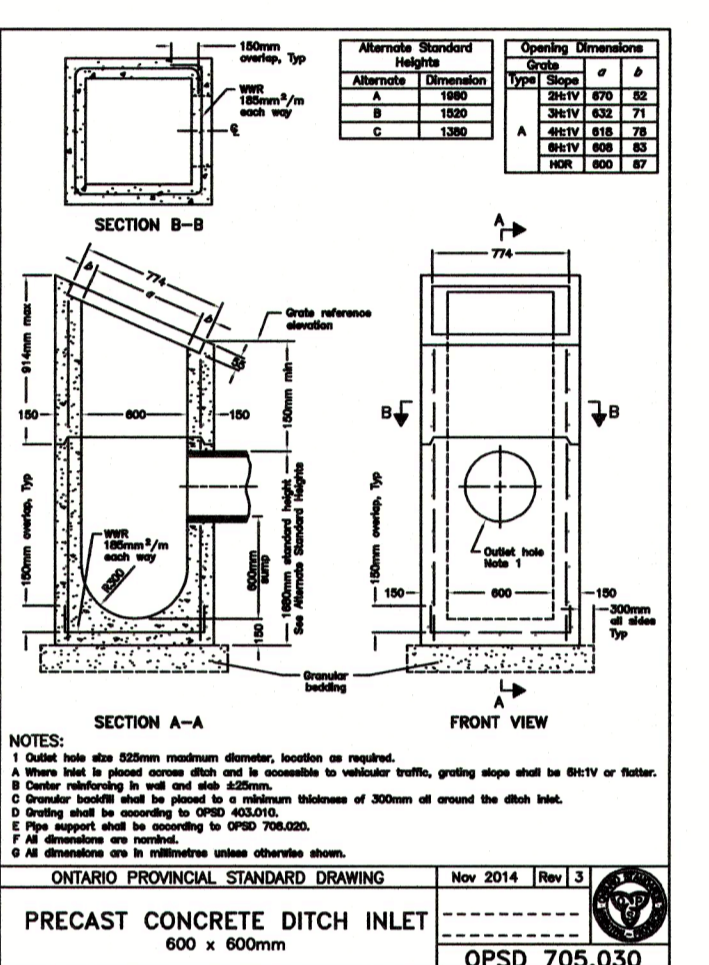
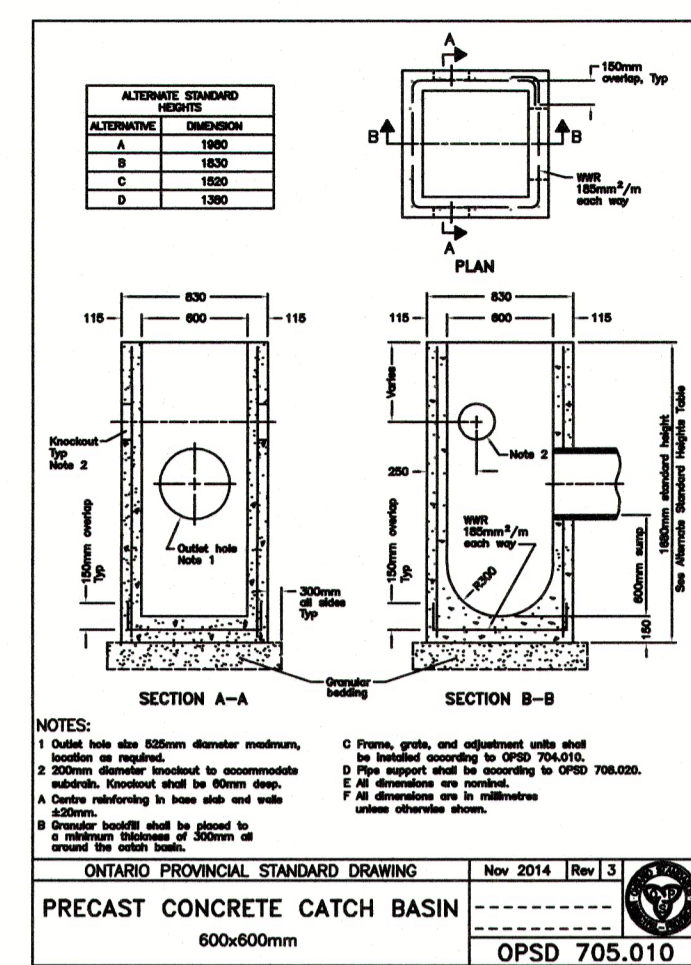
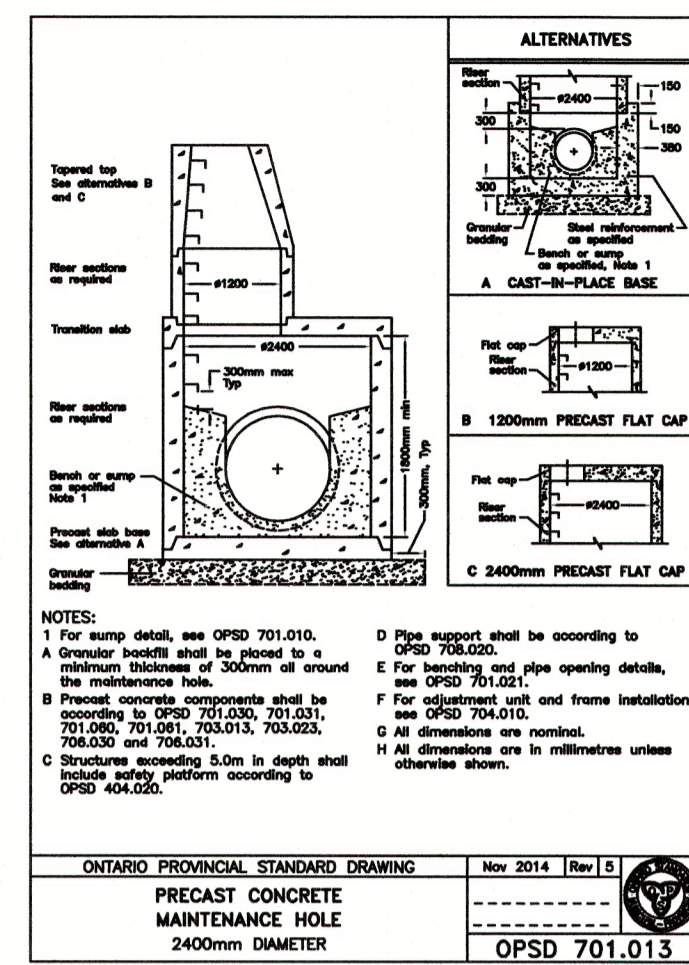
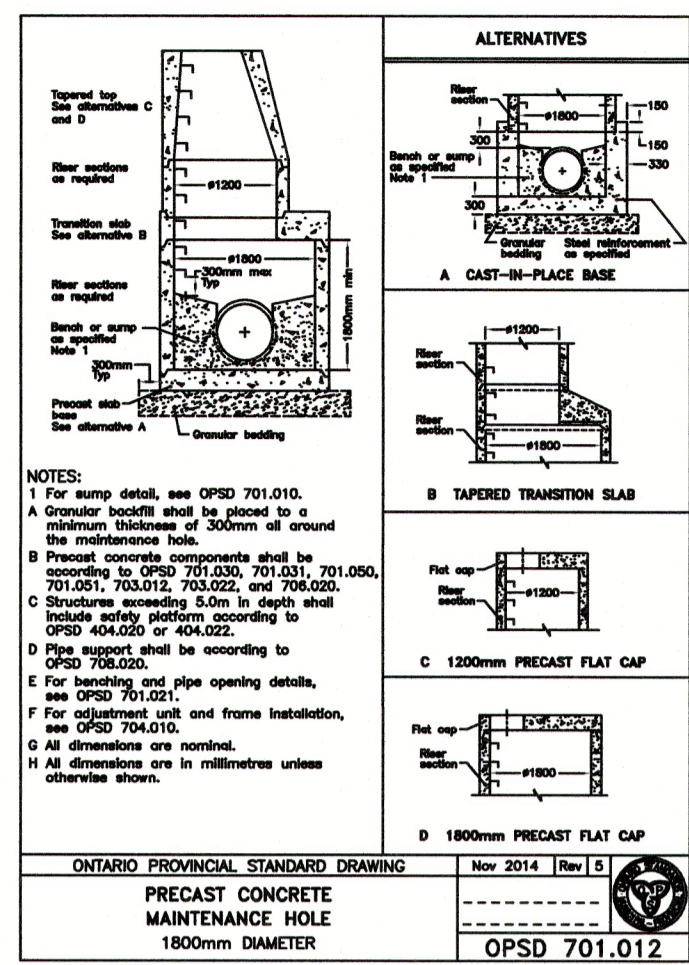
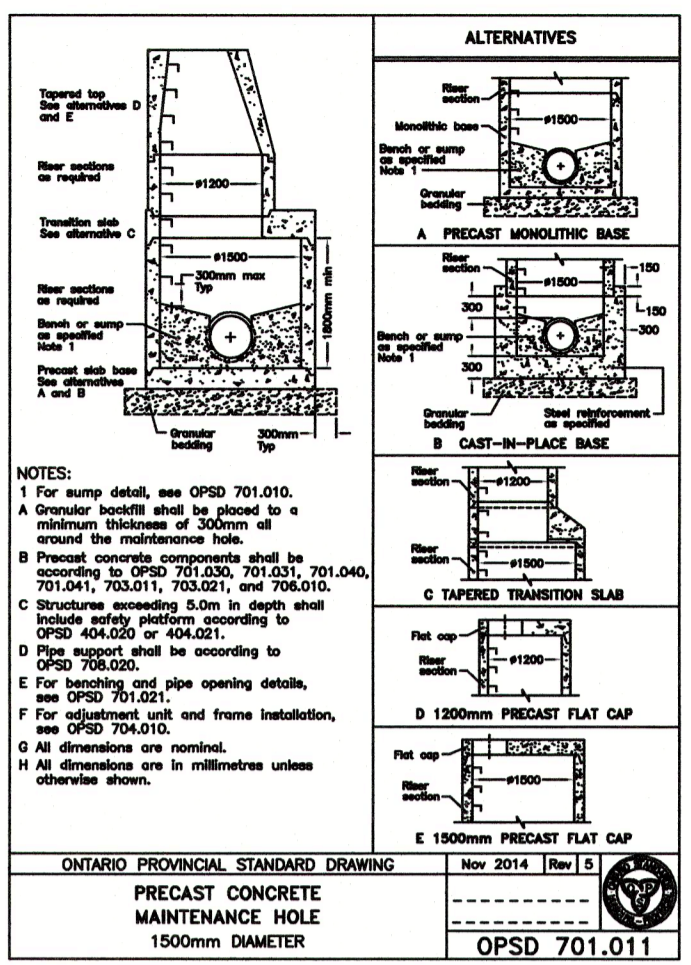
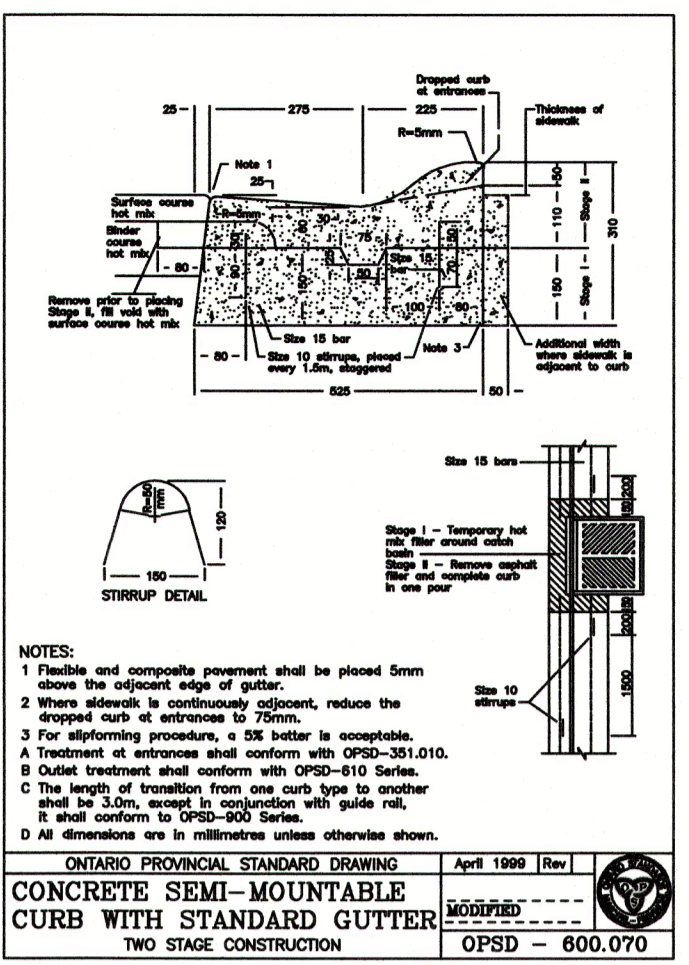
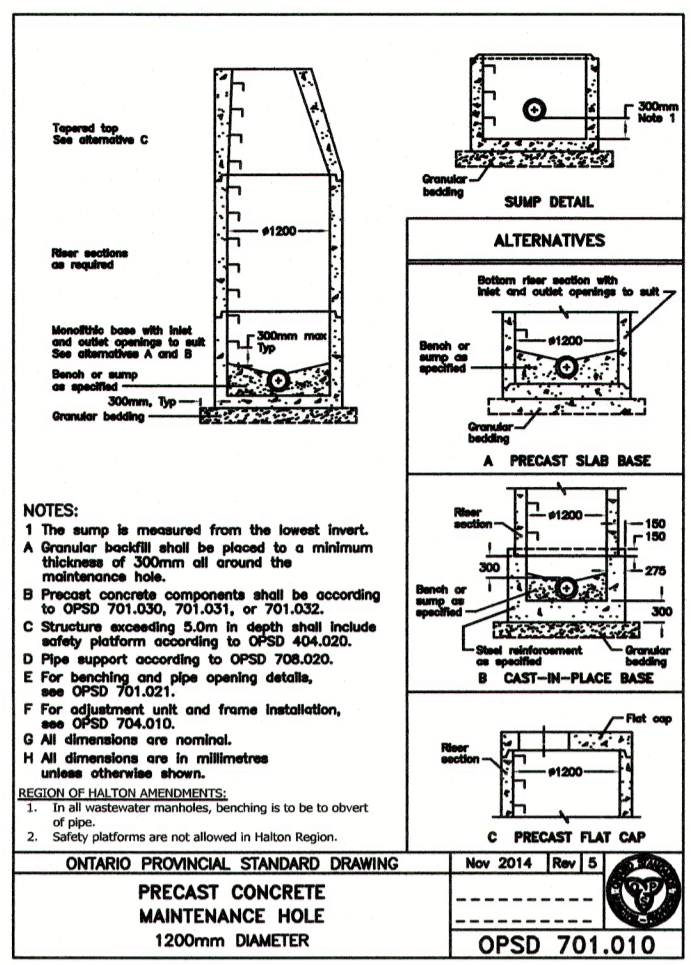
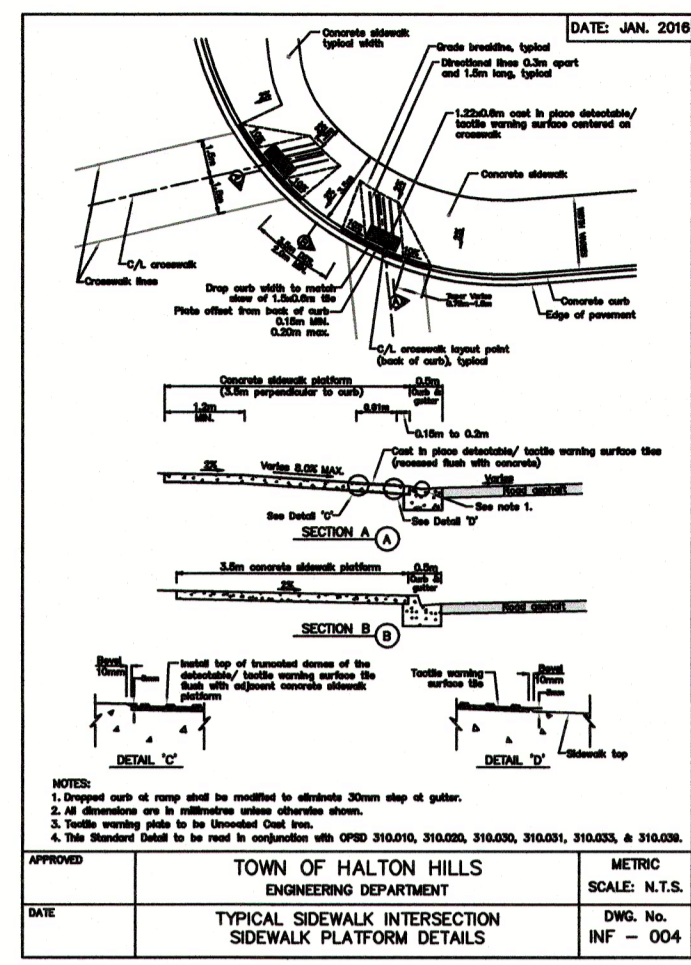
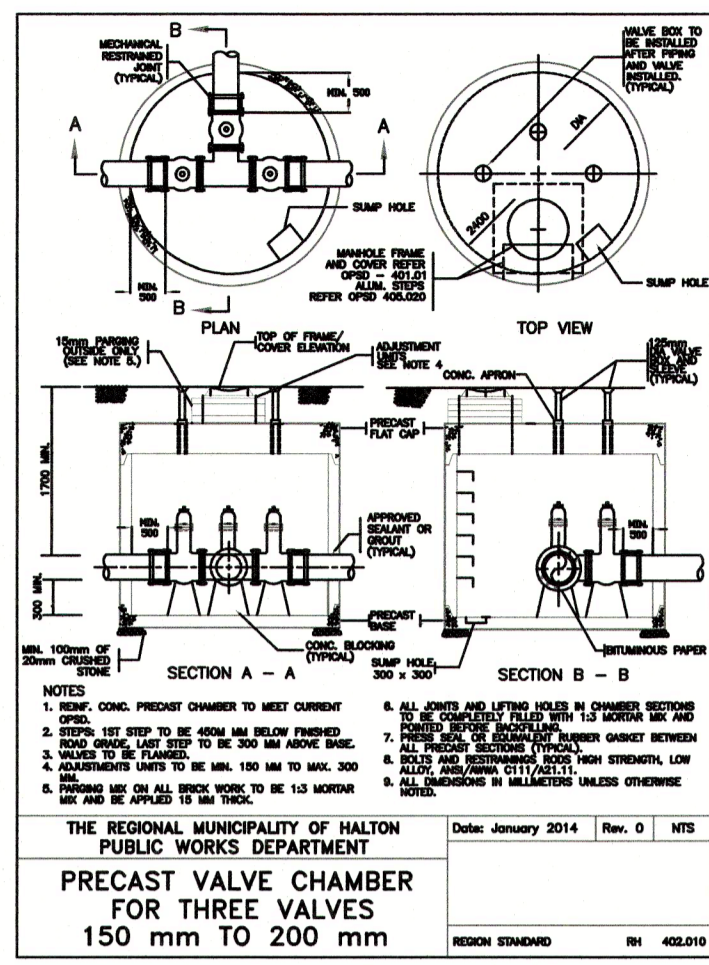
TOWN OF HALTON HILLS
Working Together Working for You!

Halton REGION

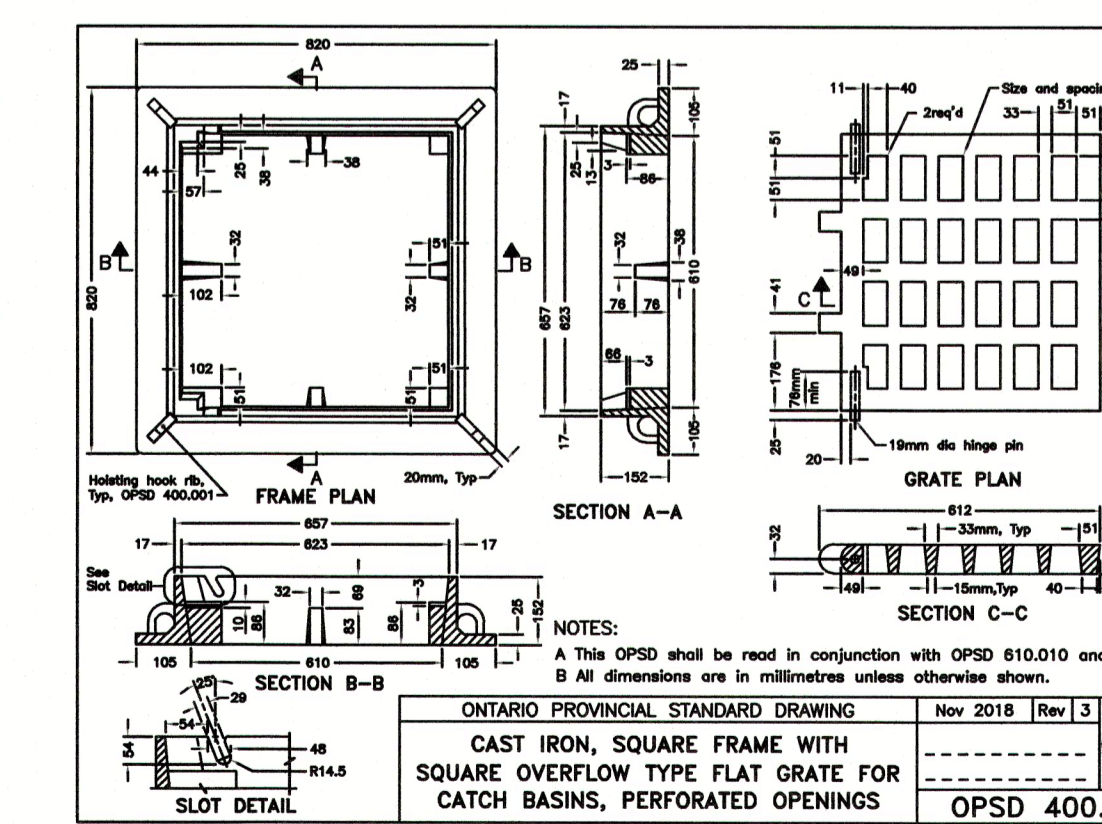
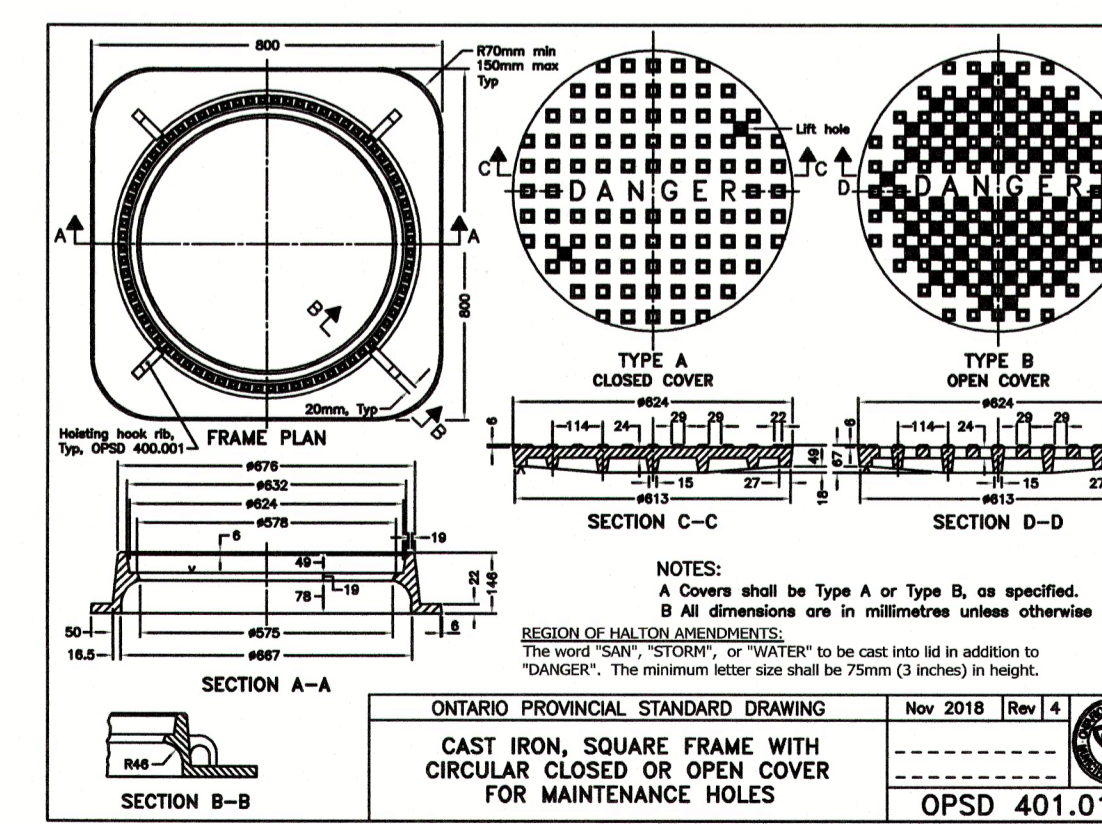
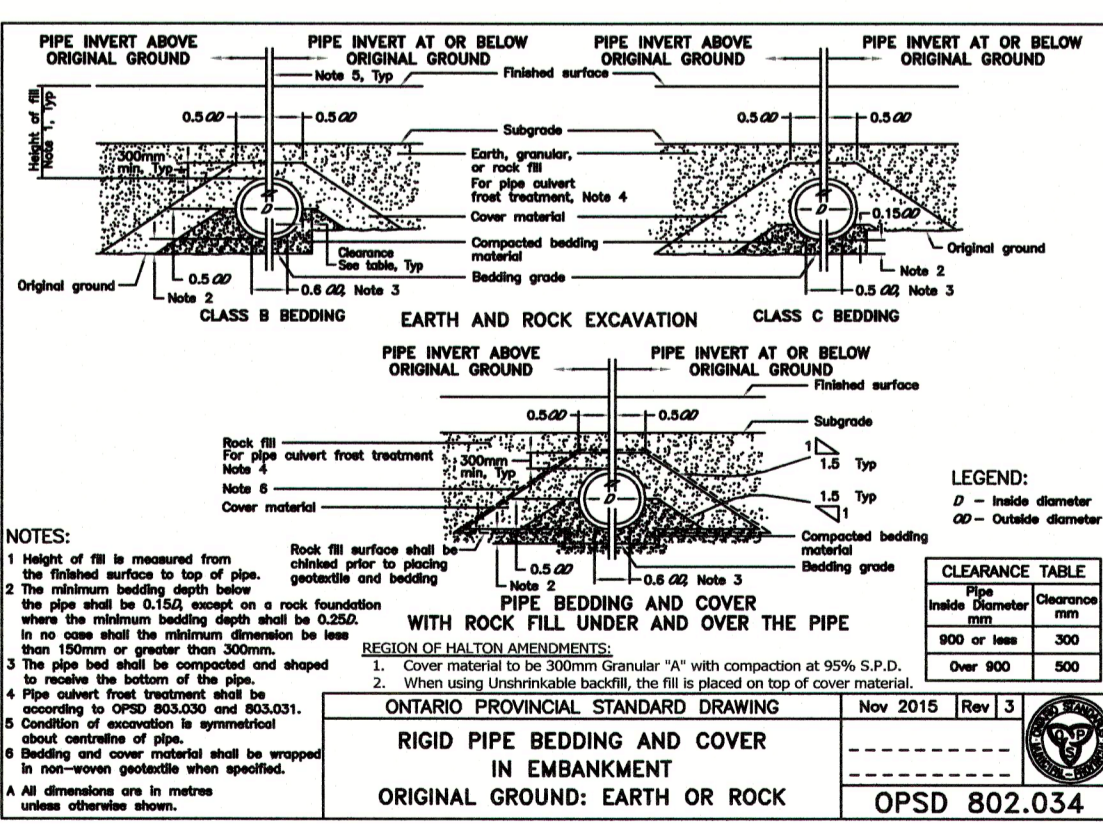
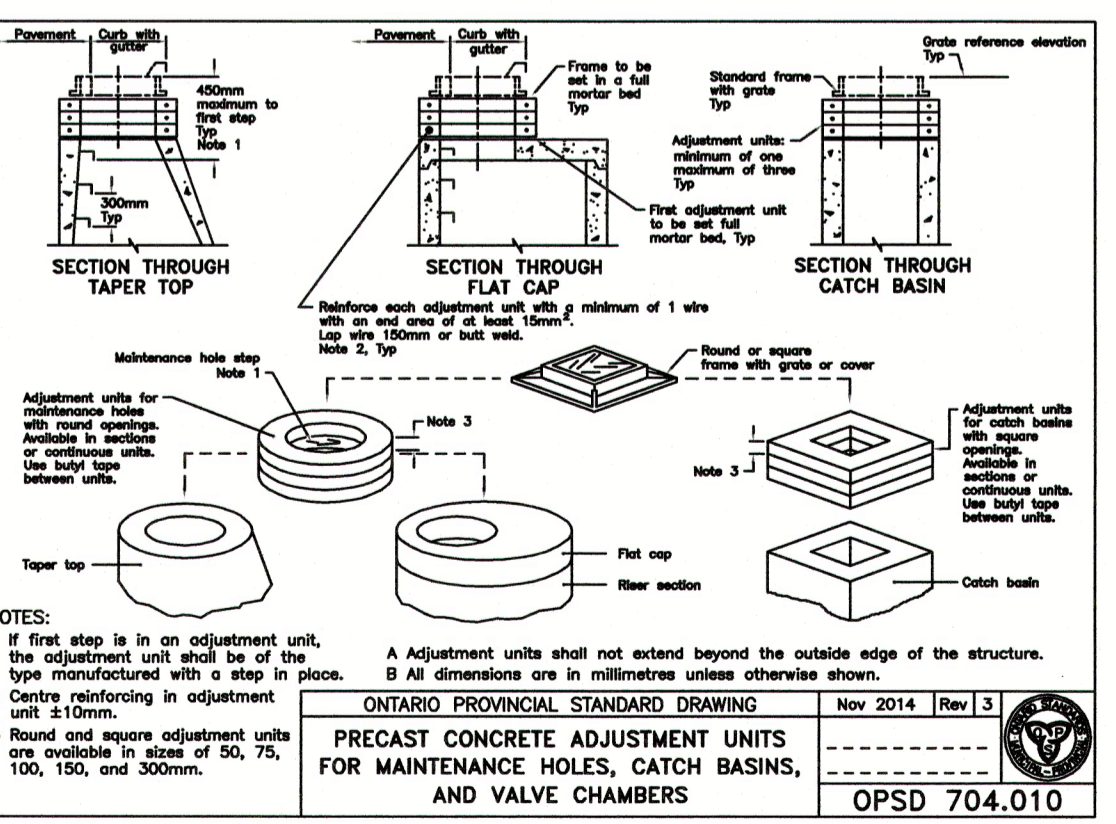
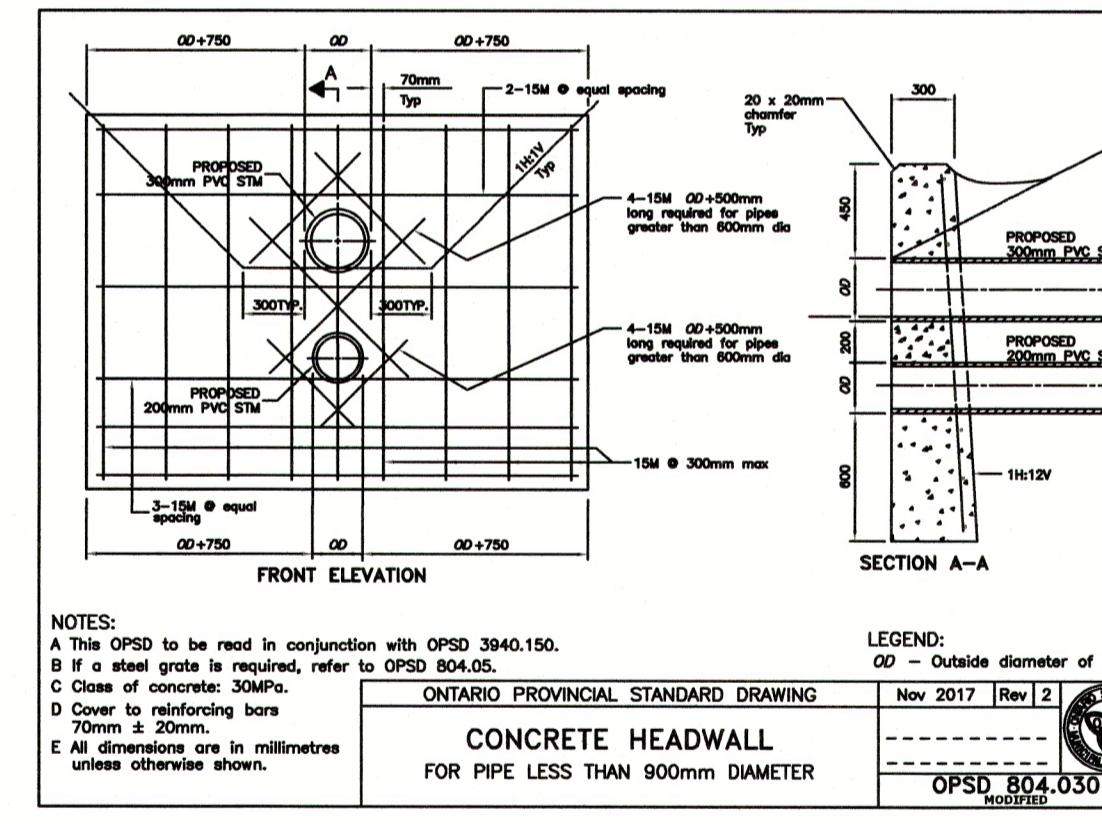
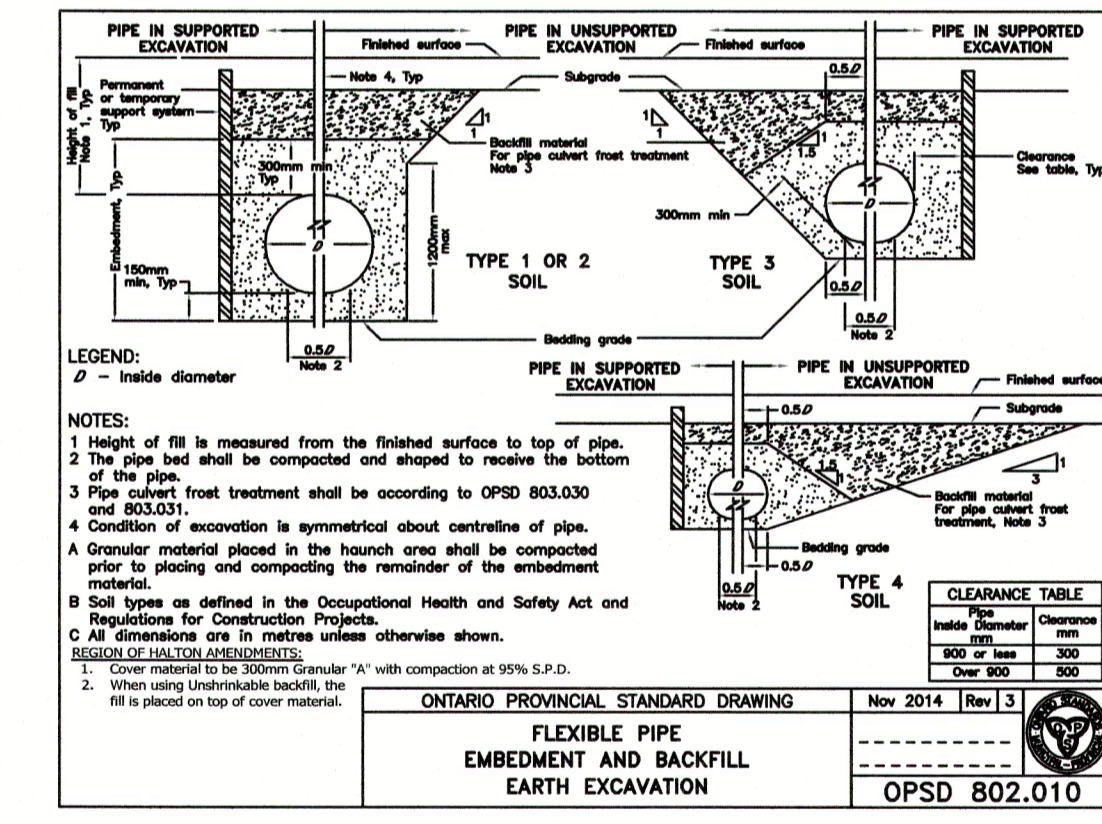
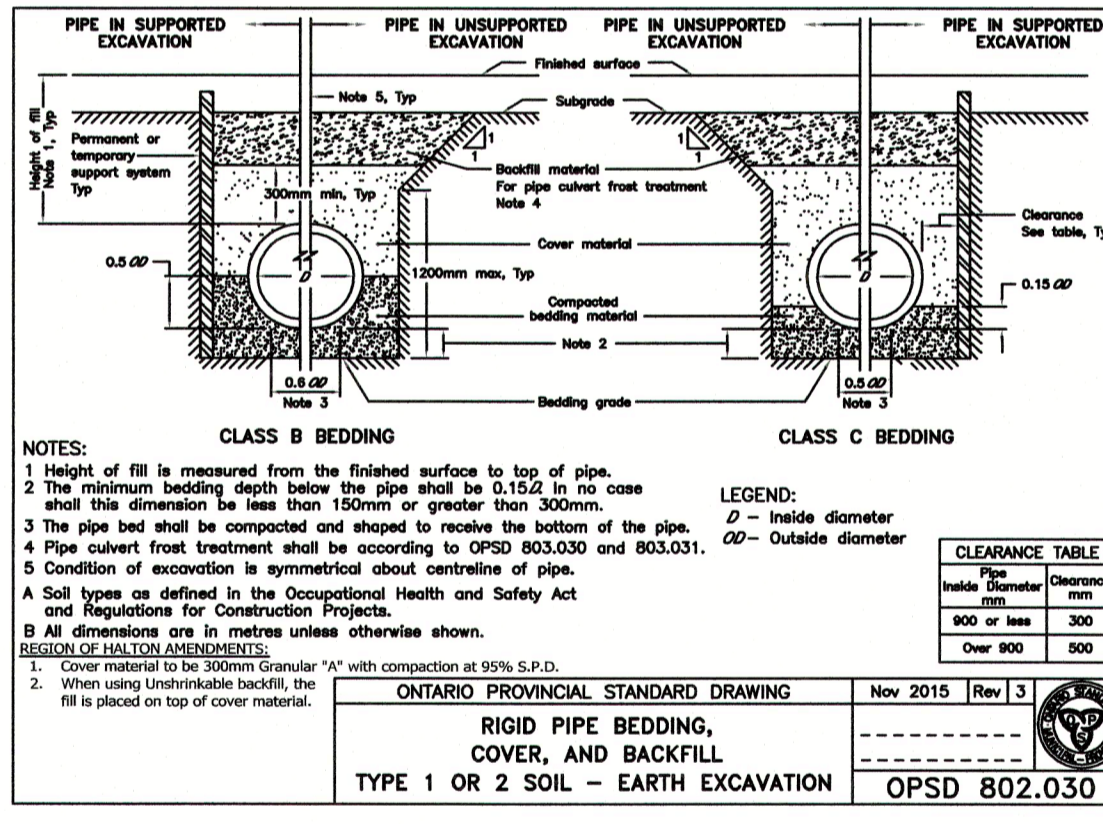
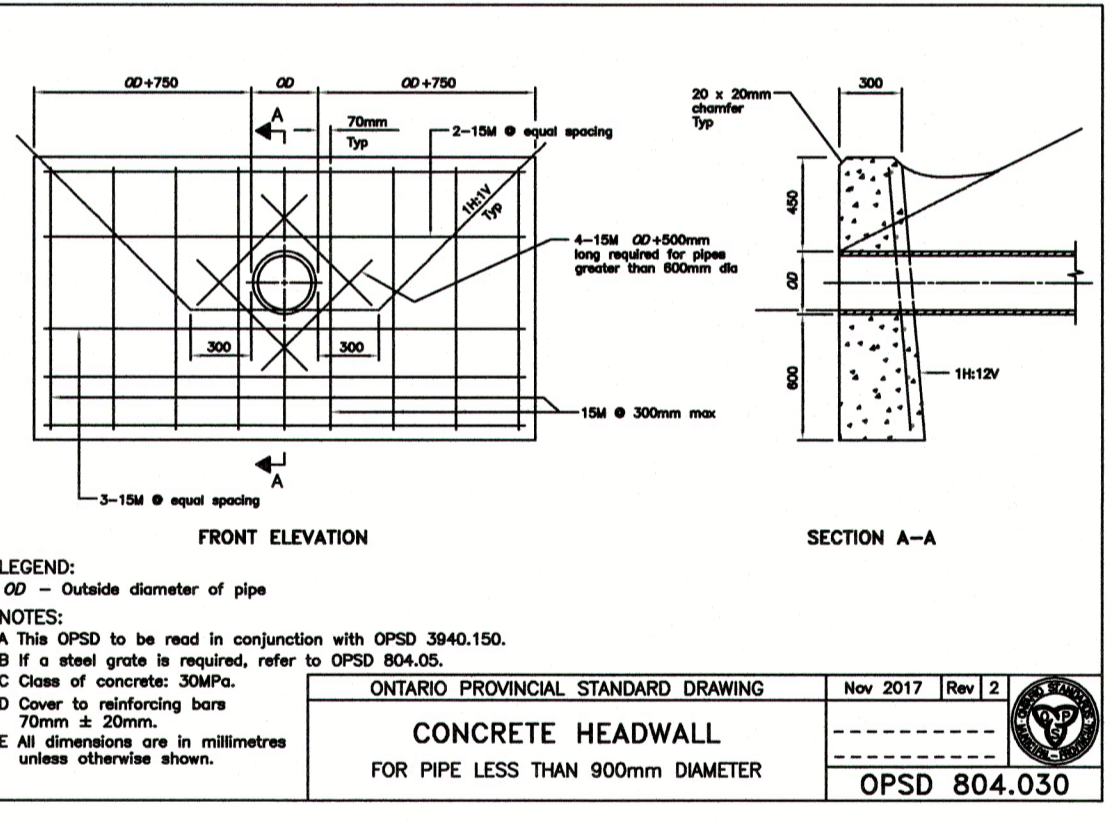
EROSION AND SEDIMENT CONTROL PLAN & CMP - CREDIT STREET

DESIGNED BY: S.N./R.P.D. DATE: AUGUST 2019 CHECKED BY: R.P.D.
DRAWN BY: A.G./V.B. DRAWING NO. 17021-29 CITY FILE:
SCALE: HOR 1:500 Sheet: 29 OF 35 REGION FILE:

DH-1026



ISSUED FOR CONSTRUCTION



EDEN OAK (CREDITVIEW HEIGHTS) INC.
24T-08001/H

MUNICIPAL
 DESIGN APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF HALTON HILLS STANDARDS AND SPECIFICATIONS.

REGIONAL MUNICIPALITY OF HALTON
 DESIGN OF WASTEWATER AND WATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON STANDARDS AND SPECIFICATIONS AND LOCATION APPROVAL FROM AREA MUNICIPALITY.

SIGNED: [Signature] ENGINEERING & PUBLIC WORKS
 DATE: Oct 14/19

SIGNED: [Signature] PLANNING & PUBLIC WORKS DEPARTMENT
 DATE: [Blank]

DESIGNED: [Signature] APPROVAL: [Signature]

CONDELAND
 CONSULTING ENGINEERS & PROJECT MANAGERS
 350 Creditstone Road, Unit 200 Concord, Ontario L4K 3Z2
 P: (905) 695-2096 F: (905) 695-2099

TOWN OF HALTON HILLS
 Working Together Working For You!

Halton REGION

STANDARD DETAILS (1 OF 2)

DESIGNED BY: S.N./R.P.D. DATE: AUGUST 2019 CHECKED BY: R.P.D.
 DRAWN BY: A.G./V.B. DRAWING NO. 17021-32 CITY FILE:
 SCALE: Sheet: 32 OF 35 REGION FILE:

