

HEART LAKE ROAD AND COUNTRYSIDE DRIVE INTERSECTION IMPROVEMENTS IN THE CITY OF BRAMPTON CONTRACT No. 2022-

ISSUED FOR 30% REVIEW
APR. 5 , 2022

DRAWING INDEX

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P:\47877\100\47877-100-CS2

LEGEND OF EXISTING FEATURES

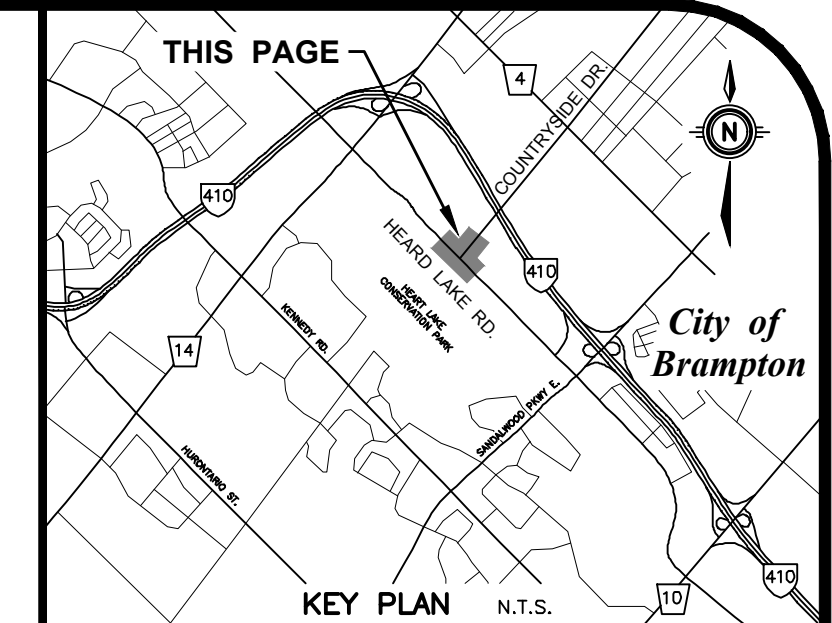
	SITE BOUNDARY		EXISTING HYDRO POLE LIGHT STANDARD
	EXISTING SPOT ELEVATIONS/CONTOURS		EXISTING LIGHT STANDARD
	EXISTING DIRECTION OF DRAINAGE/SWALE		EXISTING GUY WIRE
	EXISTING SANITARY SEWER		EXISTING TRAFFIC SIGNAL
	EXISTING WATERMAIN		EXISTING PILLAR
	EXISTING STORM SEWER		EXISTING BOLLARD
	EXISTING RETAINING WALL		EXISTING ROAD SIGN
	EXISTING CURB		EXISTING SIGN
	EXISTING EMBANKMENT		EXISTING MAILBOX
	EXISTING FENCE		EXISTING MARKER
	EXISTING HANDRAIL		EXISTING EMERGENCY NUMBER
	EXISTING STEEL GUIDERAIL		EXISTING RAIL ROAD SIGN
	EXISTING RAIL ROAD		EXISTING SIGN
	EXISTING MANHOLE		EXISTING CONIFEROUS TREE
	EXISTING CATCHBASIN MANHOLE		EXISTING DECIDUOUS TREE
	EXISTING DOUBLE CATCHBASIN MANHOLE		EXISTING CONIFEROUS SHRUB
	EXISTING CATCHBASIN		EXISTING DECIDUOUS SHRUB
	EXISTING DOUBLE CATCHBASIN		EXISTING TREE STUMP
	EXISTING DITCH INLET		EXISTING ROCK
	EXISTING FIRE HYDRANT		EXISTING CONIFEROUS HEDGE
	EXISTING WATER VALVE		EXISTING DECIDUOUS HEDGE
	EXISTING VALVE CHAMBER		EXISTING MONITORING WELL
	EXISTING WATER BOX		EXISTING PIEZOMETER
	EXISTING WELL		EXISTING BORE HOLE
	EXISTING CLEAN OUT		EXISTING HAND HOLE
	EXISTING BELL MANHOLE		EXISTING TEST PIT
	EXISTING GAS VALVE		EXISTING STANDARD IRON BAR
	EXISTING PEDESTAL		EXISTING IRON BAR
	EXISTING BELL PEDESTAL		EXISTING ROUND IRON BAR
	EXISTING TV PEDESTAL		EXISTING IRON POST
	EXISTING HYDRO POLE		EXISTING VERTICAL MONUMENT
	EXISTING HAND WELL		EXISTING BENCHMARK
			TEMP. BENCHMARK

LEGEND OF PROPOSED FEATURES

	PROPOSED SANITARY SEWER		PROPOSED DOUBLE CATCHBASIN MANHOLE
	PROPOSED STORM SEWER		PROPOSED DITCH INLET
	SHALLOW PIPE INSULATION (SEE DETAIL BELOW)		PROPOSED FIRE HYDRANT
	PROPOSED WATERMAIN		PROPOSED WATER VALVE
	PROPOSED RETAINING/NOISE WALL		PROPOSED CURB STOP
	PROPOSED CONCRETE CURB		PROPOSED REDUCER
	PROPOSED EMBANKMENT (SLOPE AS NOTED)		PROPOSED BLOW OFF
	PROPOSED SEDIMENT CONTROL FENCE (SEE DETAIL)		PROPOSED VALVE CHAMBER
	PROPOSED FENCE		PROPOSED TEE
	PROPOSED HANDRAIL		PROPOSED CROSS
	PROPOSED STREET LIGHT CONDUIT		PROPOSED 90° BEND
	PROPOSED SANITARY MANHOLE		PROPOSED 45° BEND
	PROPOSED PLUG		PROPOSED 22.5° BEND
	PROPOSED CATCHBASIN		PROPOSED 11.25° BEND
	PROPOSED DOUBLE CATCHBASIN		PROPOSED HYDRO POLE
	PROPOSED STORM MANHOLE		PROPOSED LIGHT STANDARD
	PROPOSED CATCHBASIN MANHOLE		
	PROPOSED TRUNCATED DOME DETECTABLE WARNING PLATES (TYP.) E.J.W DURABLAST (OR APPROVED EQUIVALENT) SEE RMW ON SHEET X55.5		ITEM TO BE REMOVED
	COLOUR IMPRESSED CONCRETE (GREY FIELDSTONE PATTERN) 150mm THICK AS PER RMW 207		ITEM TO BE ADJUSTED
	PROPOSED OVERLAP JOINT. SEE RMW 207 "STEP JOINT COLD PLANING DETAIL" ON SHEET X55.5		ITEM TO BE RELOCATED
	PROPOSED DROP CURB		ITEM TO BE EXPOSED
	LIMIT OF CONSTRUCTION		ITEM TO BE RELOCATED BY OTHERS
			ITEM TO BE REMOVED
			ITEM TO BE SALVAGED

CONSTRUCTION NOTES AND SPECIFICATIONS

- GENERAL
 - THESE PLANS NOT FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY ENGINEER AND APPROVED BY THE LOCAL MUNICIPALITY.
 - NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.
 - THESE PLANS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF MTE CONSULTANTS INC.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:
 - CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDES BUT IS NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS. REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING.
 - OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
 - CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
 - THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS.
 - ALL UNDERGROUND AND SURFACE WORKS ARE TO BE CONSTRUCTED IN FULL COMPLIANCE WITH THE DESIGN GUIDELINES AND SUPPLEMENTAL SPECIFICATIONS FOR MUNICIPAL SERVICES (DOSSMS), REGIONAL MUNICIPALITY OF WATERLOO STANDARDS, THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) AND IN COMPLIANCE WITH LOCAL APPLICABLE CODES AND REGULATIONS, WHICH CODES AND REGULATIONS SHALL SUPERSEDE ALL OTHERS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
 - TEMPORARY SUPPORT OF EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES MUST BE APPROVED BY OWNER OF THE UTILITY. ALL ASSOCIATED COSTS ASSUMED BY THE CONTRACTOR.
 - EXISTING TOPOGRAPHIC AND LEGAL INFORMATION TAKEN FROM PLAN PREPARED BY MTE CONSULTANTS, DATED JAN. 2017. MTE ASSUMES THAT ALL TOPOGRAPHICAL INFORMATION IS AN ACCURATE REPRESENTATION OF CURRENT CONDITIONS.
 - FILTER FABRIC TO BE TERRAFIX 200R OR APPROVED EQUIVALENT.
 - ROAD STRUCTURE SHALL BE DETERMINED DURING DETAIL DESIGN
 - FULL DEPTH RECONSTRUCTION:
 - SUPERPAVE 12.5 FC-1 mm
 - SUPERPAVE 19 mm
 - GBC CLASS 'A'
 - MAXIMUM GRASSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.
 - BOULEVARDS BEHIND MULTI-USE TRAIL TO BE HYDRO SEEDED AS PER OPSS 802, 804, C/W MIN. 150MM SCREENED TOPSOIL. OTHER DISTURBED AREAS TO BE SEEDDED/PLANTED AS PER LANDSCAPE PLAN.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNALS, DELINEATORS, MARKERS, AND BARRIERS.
 - THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- STORM SEWERS
 - PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSS 802.030, 802.031, OR 802.032. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSS 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRAN. "A" TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - STORM SEWERS SHALL BE IN ACCORDANCE WITH THE DOSSMS SECTION C3.1.7
 - MANHOLES AND MANHOLE CATCHBASINS TO BE 1200mm DIAMETER PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSS 701.010 UNLESS OTHERWISE SPECIFIED.
 - MANHOLES TO BE BENCHED PER OPSS 701.021. CATCHBASIN MANHOLES WITH OUTLET PIPE DIAMETER 450MM AND SMALLER, A 600MM DEEP SLUMP SHALL BE PROVIDED. ALL CATCHBASIN MAINTENANCE HOLES WITH OUTLET DIAMETER LARGER THAN 450MM SHALL BE BENCHED UP MINIMUM 3/4 OF THE PIPE HEIGHT.
 - CATCHBASINS TO BE 600mm SQUARE PRECAST AS PER OPSS 705.010.
 - DITCH INLET CATCHBASINS TO BE 600mm SQUARE AS PER OPSS 705.030 WITH SLOPE ON GRATES UNLESS OTHERWISE SPECIFIED.
 - MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
 - STORM MANHOLE LIDS TO BE PER OPSS 401.010 - TYPE 'A' CATCHBASIN AND CATCHBASIN MANHOLE GRATES TO BE PER SWS E4-03 AND E4-04 AND E4-042. DITCH INLET CATCHBASIN GRATES TO BE PER OPSS 403.010.
 - STORM SEWERS AND SERVICES TO HAVE MINIMUM 1.4m COVER TO TOP OF PIPE WHERE COVER TO TOP OF PIPE IS DEFICIENT. CONTRACTOR SHALL INSTALL SHALLOW BURIED SEWER PIPE IN ACCORDANCE WITH APPLICABLE "SEWER PIPE INSULATION DETAIL" INDICATED ON THIS SHEET. INSULATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI-1.76 (R10) INSULATING FACTOR (TYPICALLY 50-65mm). INSULATION BOARD WIDTH SHALL BE 1.8m FOR UP TO 200mm NOMINAL PIPE DIAMETERS, 2.4m FOR 201mm-800mm DIAMETER AND 3.0m FOR 801mm-1400mm. ALL JOINTS SHALL BE TIGHTLY BUTTED TOGETHER (TAPE OR OTHERWISE SECURE JOINTS TO RESIST MOVEMENT DURING BACKFILL COVER). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140kPa (20psi), AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME. ACCEPTABLE PRODUCTS ARE DOW STYROFOAM-SM OR -HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD-M2B OR OTHER ENGINEER-APPROVED EQUIVALENT.
 - ALL SEWERS TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DOSSMS SECTION D.3.
- EROSION AND SEDIMENT CONTROL
 - CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEGETATIVE COVER IS ESTABLISHED.
 - ALL SILT FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING OR EXCAVATING COMMENCING.
 - EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.
 - NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND THE DEPARTMENT OF PUBLIC WORKS.
 - CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.
 - CONTRACTOR MUST REMOVE EROSION AND SEDIMENTATION FENCING PRIOR TO COMPLETION OF PROJECT. CONTRACTOR TO HAVE EROSION AND SEDIMENTATION FENCE INSPECTED WHEN VEGETATION HAS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.
- MAINTENANCE RECOMMENDATIONS
 - EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE FENCE.
 - OWNER'S REPRESENTATIVE TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO REGION REQUIREMENTS.



GEODETIC BM ELEV. = m

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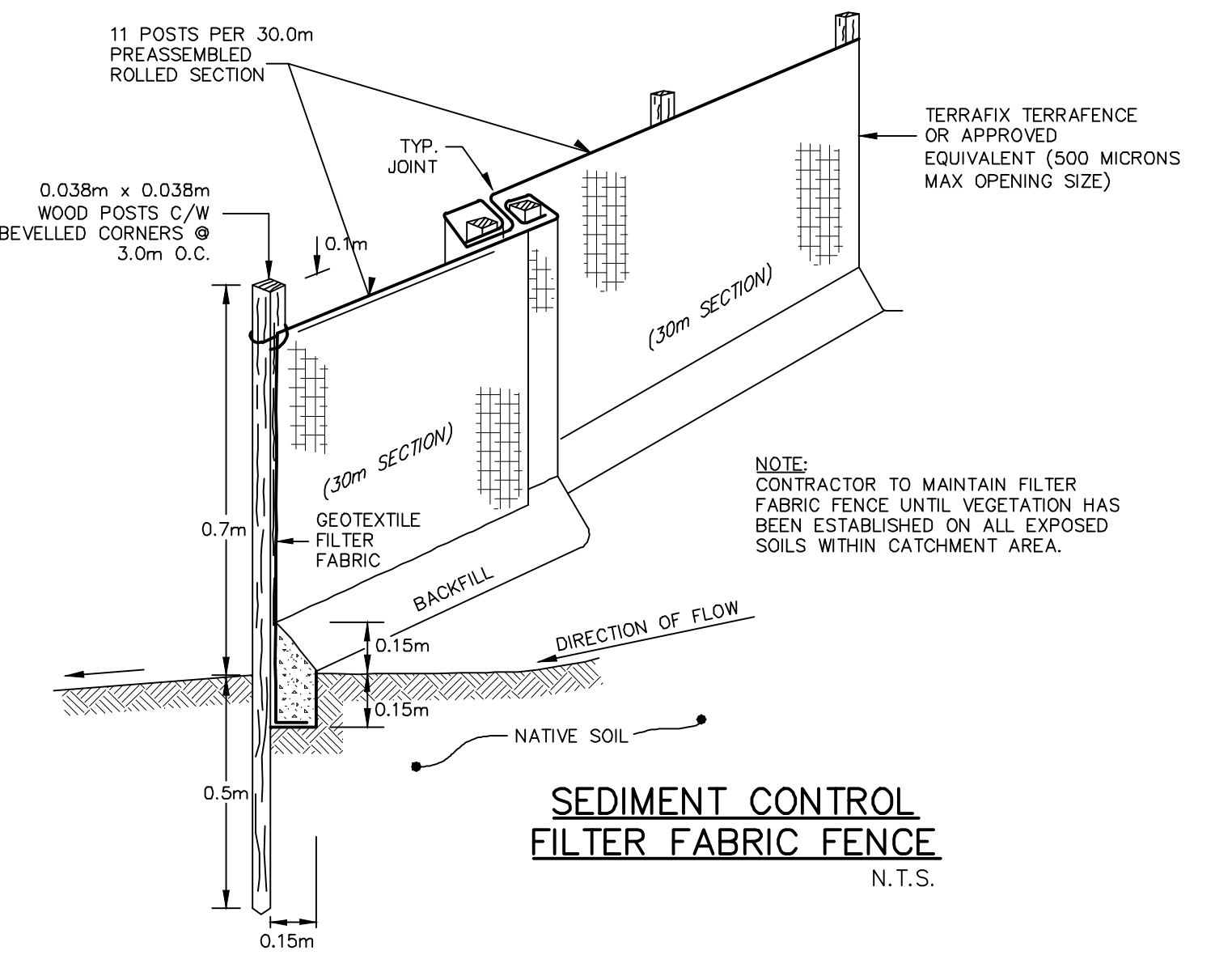
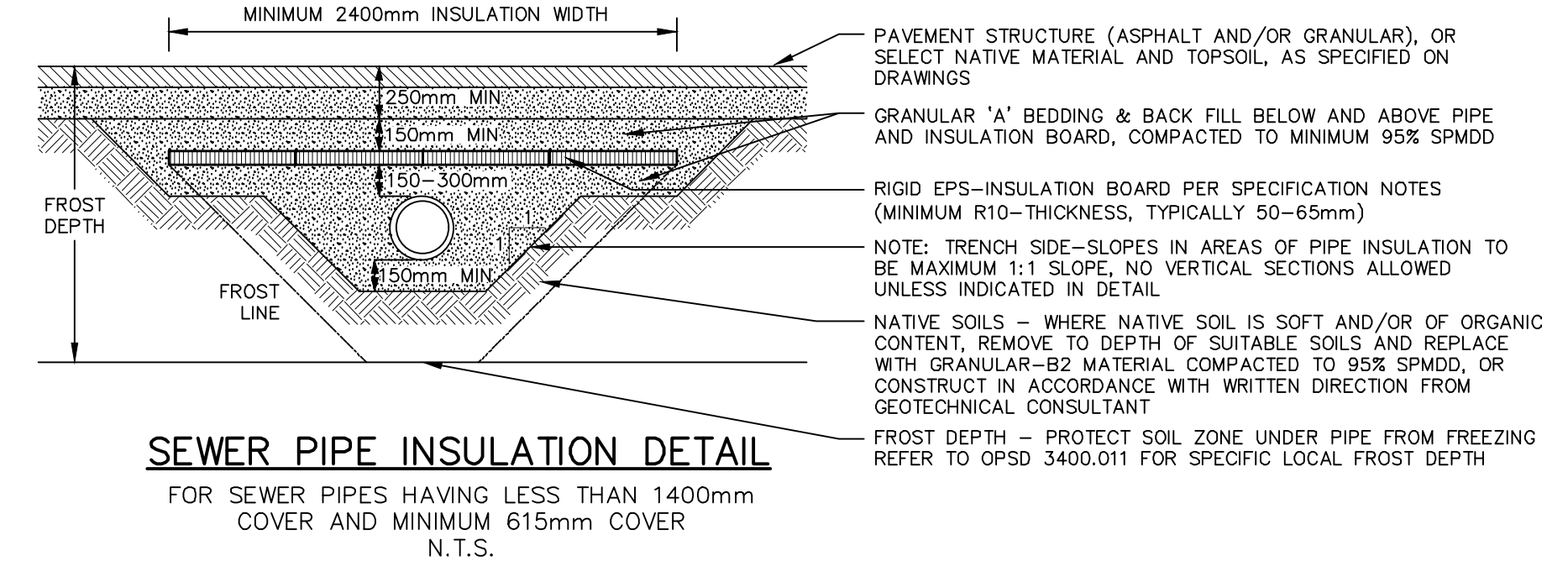
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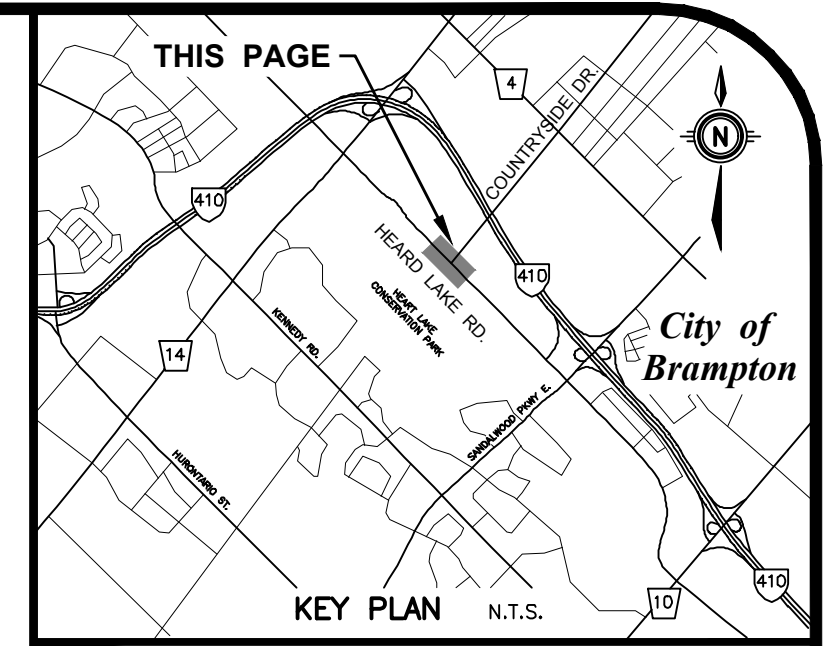
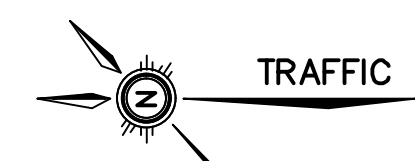
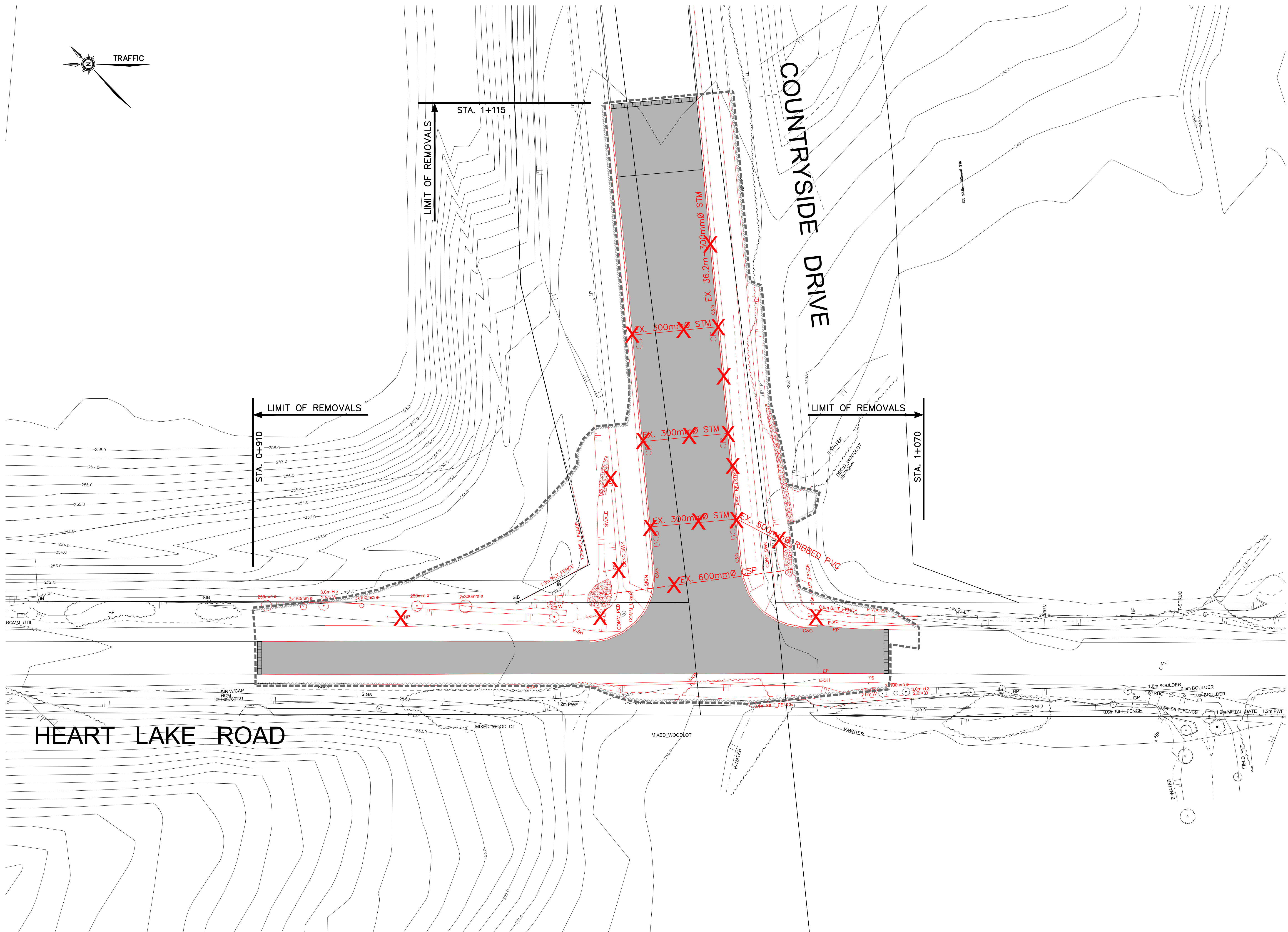
CITY OF BRAMPTON

PROJECT
HEART LAKE RD. & COUNTRYSIDE DR.

DRAWING
LEGEND, SYMBOLS NOTES & DETAILS

Project Manager	VPP	Project No.	47877-100
Design By	DXL	Checked By	VPP
Drawn By	PFR	Checked By	
Surveyed By	BRAMPTON	Drawing No.	CS2.1
Date	MAR. 30, 2022		
Scale	HOR: 1:400 VER: 1:50	Sheet	1 of 7





GEODETIC BM ELEV. = m

- LEGEND:**
- X ITEM TO BE REMOVED
 - (A) ITEM TO BE ADJUSTED
 - (B) ITEM TO BE RELOCATED
 - (E) ITEM TO BE EXPOSED
 - (O) ITEM TO BE RELOCATED BY OTHERS
 - (R) ITEM TO BE REMOVED
 - (S) ITEM TO BE SALVAGED
 - [Pattern] COLD PLANNING 1.0m WIDE
 - [Pattern] ASPHALT TO BE REMOVED
 - [Line] REMOVALS
 - [Line] LIMIT OF REMOVALS
 - [Line] SEDIMENT CONTROL FENCE SEE DETAIL 1 DWG No. CS2.1
- REFER TO MTE DWG. No. CS2.1 FOR GENERAL NOTES.

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PROJECT
HEART LAKE RD. & COUNTRYSIDE DR.

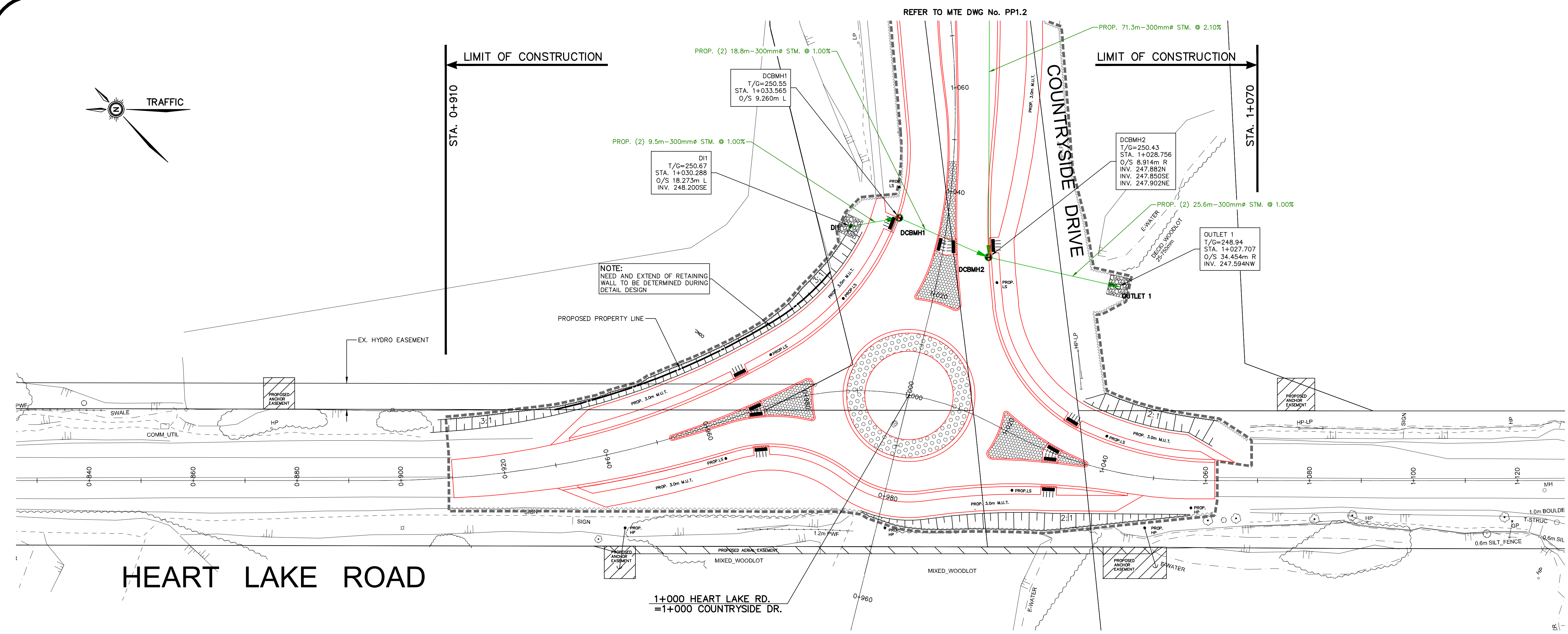
DRAWING
EXISTING CONDITIONS AND REMOVALS PLAN

HEART LAKE ROAD
COUNTRYSIDE DRIVE

Project Manager	VPP	Project No.	47877-100
Design By	DXL	Checked By	VPP
Drawn By	PFR	Checked By	
Surveyed By	BRAMPTON	Drawing No.	EC3.1
Date	APR. 1, 2022		
Scale	HOR. 1:400	Sheet	2 of 7

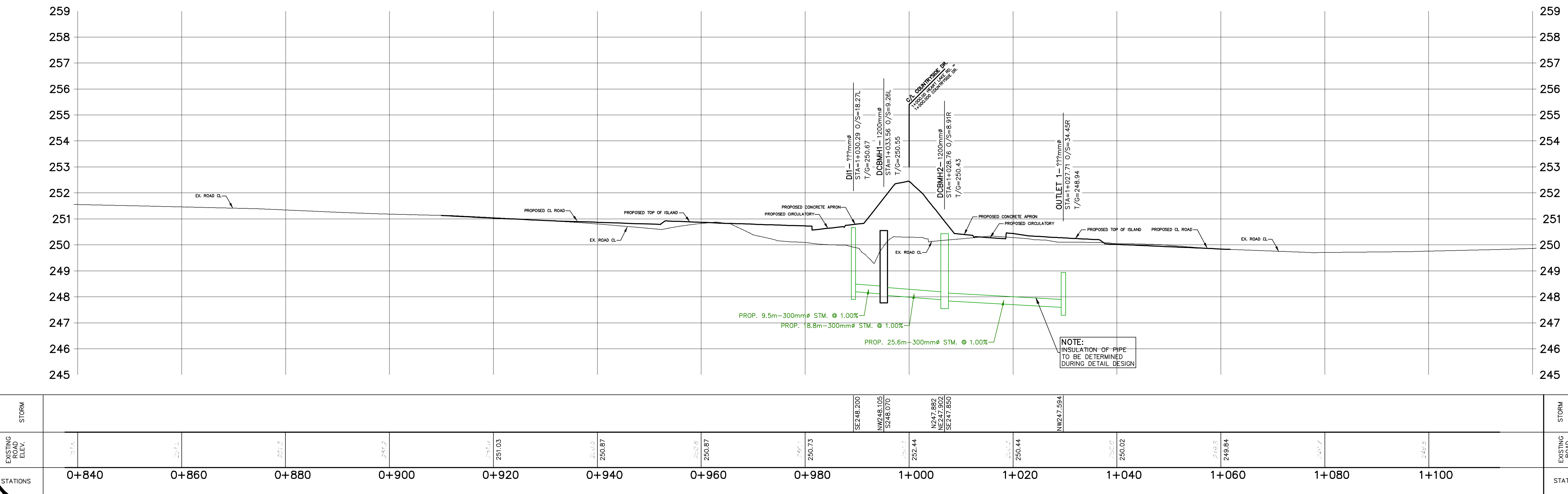
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April 5, 2022 2:29 p.m. Plotted By: praimbault

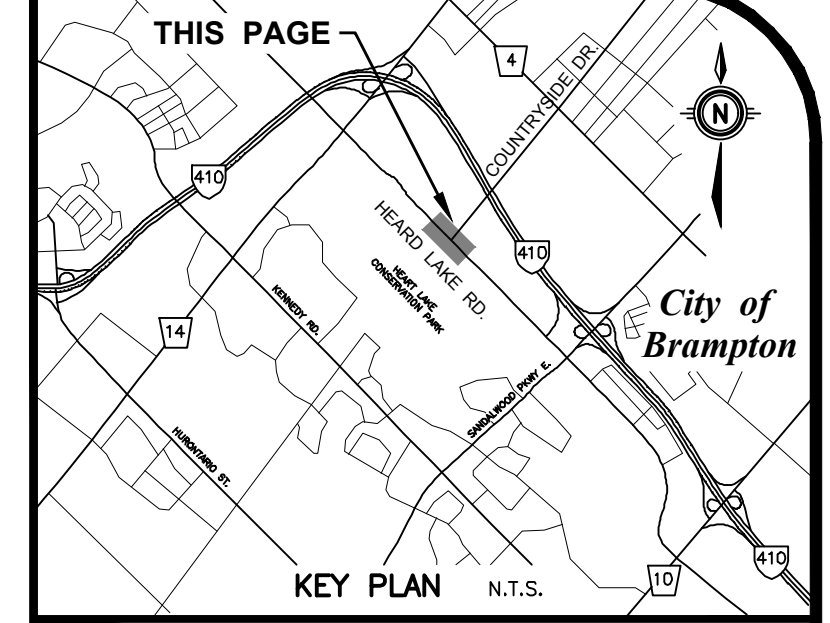


HEART LAKE ROAD

1+000 HEART LAKE RD.
= 1+000 COUNTRYSIDE DR.



STATIONS	0+840	0+860	0+880	0+900	0+920	0+940	0+960	0+980	1+000	1+020	1+040	1+060	1+080	1+100	STATIONS
EXISTING ROAD ELEV.	251.1	251.1	251.3	251.2	251.03	250.87	250.87	250.73	250.44	250.44	250.02	249.84	249.7	249.5	EXISTING ROAD ELEV.



GEODETIC BM ELEV. = m

- NOTES:**
- FOR CATCHBASIN, AND CB MANHOLES, OFFSETS ARE GIVEN TO THE EDGE OF PAVEMENT, TOP OF GRATE ELEVATIONS ARE THE FINISHED GRADE AT THE EDGE OF PAVEMENT FOR SIDE INLET CATCHBASINS AND SIDE MANHOLES, OFFSETS ARE GIVEN TO THE BACK OF CURB, TOP OF GRATE ELEVATIONS ARE AT BACK OF CURB. FOR MANHOLES, AND OTHER STRUCTURES NOT LOCATED ALONG CURB LINES, OFFSETS ARE GIVEN TO THE CENTER OF THE STRUCTURE AND ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATIONS.
 - REFER TO DWG 47877-100-CS2.1 FOR GENERAL NOTES.

- LEGEND**
- PROPOSED LIGHT STANDARD
 - DROP CURB
 - LIMIT OF CONSTRUCTION
 - SEDIMENT CONTROL FENCE (SEE DETAIL DWG No. CS2.1)
 - PIPE INSULATION (SEE DETAIL DWG No. CS2.1)
 - PROPOSED TRUNCATED DOME DETECTABLE WARNING PLATES
 - PROPOSED 200mm DEPTH STAMPED COLOURED CONCRETE, RANDOM FIELD STONE PATTERN, RED COLOUR BK PIGMENT TO CEMENT RATIO
 - PROPOSED 125mm DEPTH STAMPED COLOURED CONCRETE, RANDOM FIELD STONE PATTERN, RED COLOUR BK PIGMENT TO CEMENT RATIO

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CITY OF BRAMPTON

HEART LAKE RD. & COUNTRYSIDE DR.

PROPOSED PLAN & PROFILE

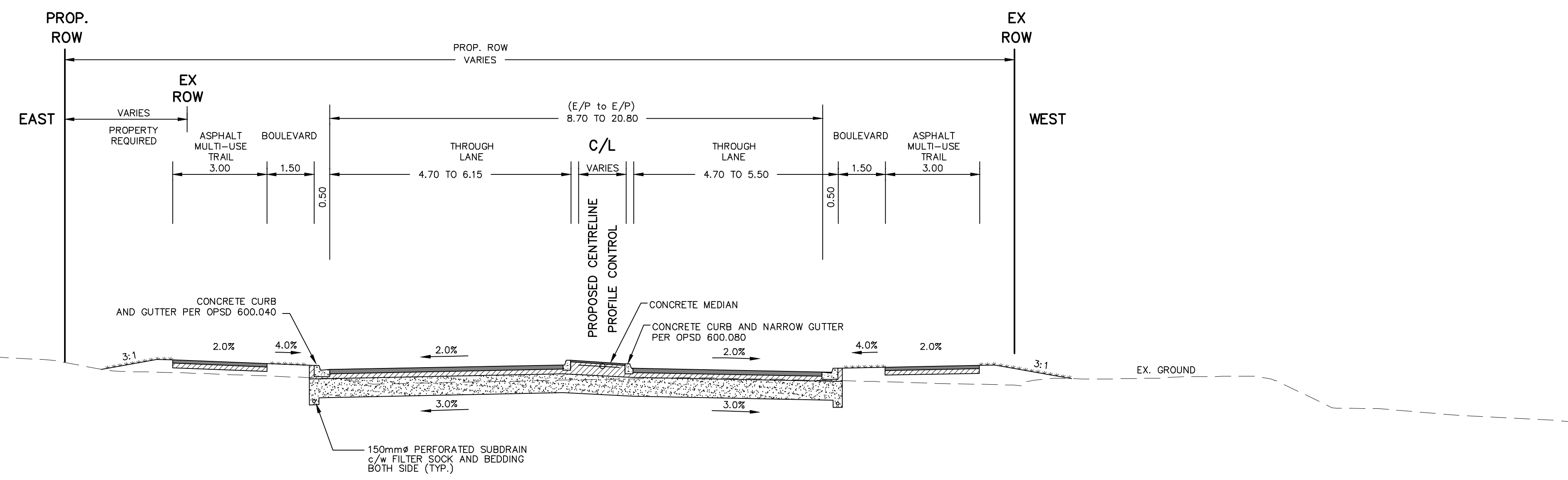
HEART LAKE ROAD STA. 0+910 TO 1+070

Project Manager	VPP	Project No.	47877-100
Design By	DXL	Checked By	VPP
Drawn By	PFR	Checked By	
Surveyed By	BRAMPTON	Drawing No.	
Date	APR. 1, 2022		PP1.1
Scale	HOR. 1:400 VER. 1:50		Sheet 3 of 7

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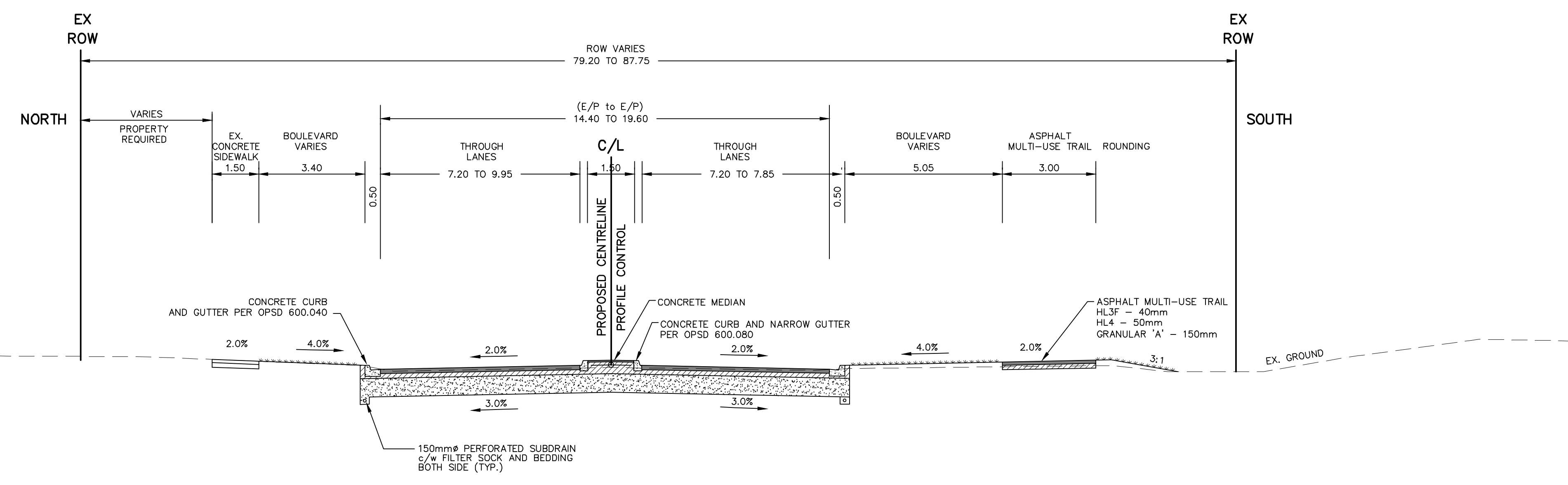
April 5, 2022 - 2:37 p.m. - Plotted By: trainbault

PAVEMENT DESIGN
TO BE DETERMINED DURING
DETAIL DESIGN

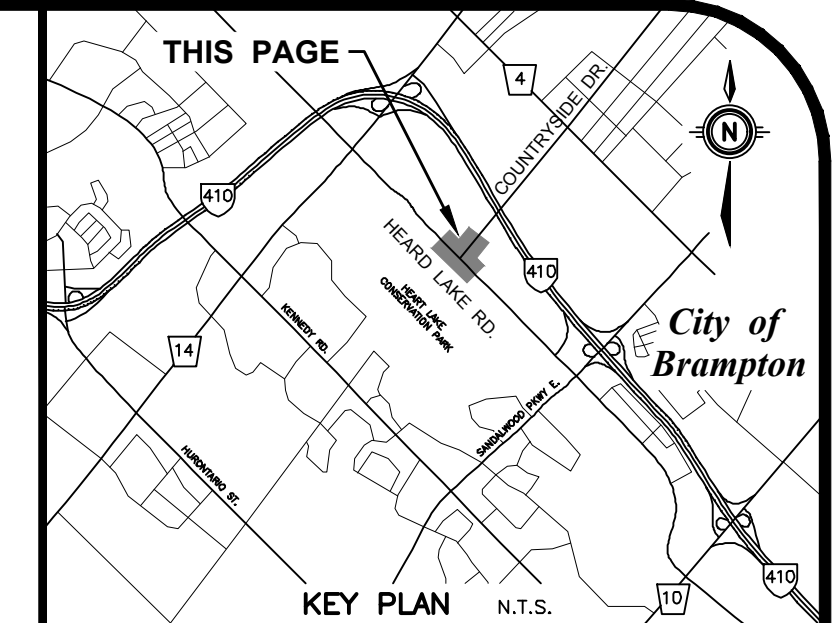


HEART LAKE ROAD
WITH ISLAND
STA. 0+955 TO 1+037

PAVEMENT DESIGN
TO BE DETERMINED DURING
DETAIL DESIGN



COUNTRYSIDE DRIVE
WITH ISLAND
STA. 1+018 TO 1+112



GEODETIC BM ELEV. = m

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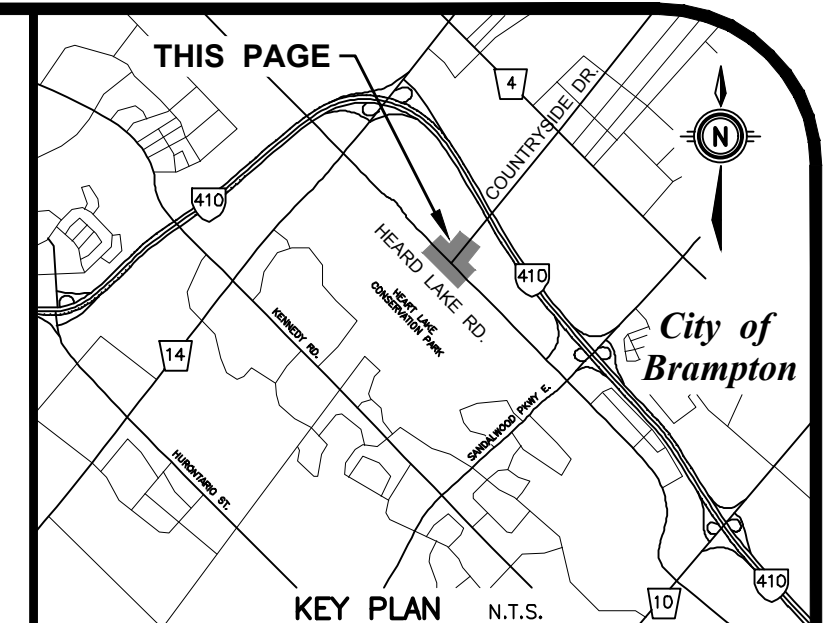
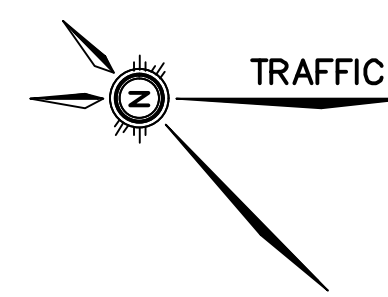
CLIENT
CITY OF BRAMPTON

PROJECT
HEART LAKE RD. &
COUNTRYSIDE DR.

DRAWING
PROPOSED
TYPICAL SECTIONS
HEART LAKE ROAD
COUNTRYSIDE DRIVE

Project Manager	VPP	Project No.	47877-100
Design By	DXL	Checked By	VPP
Drawn By	PFR	Checked By	
Surveyed By	BRAMPTON	Drawing No.	XS1.1
Date	MAR. 30, 2022		
Scale	HOR: 1:100 VER: 1:100	Sheet	5 of 7

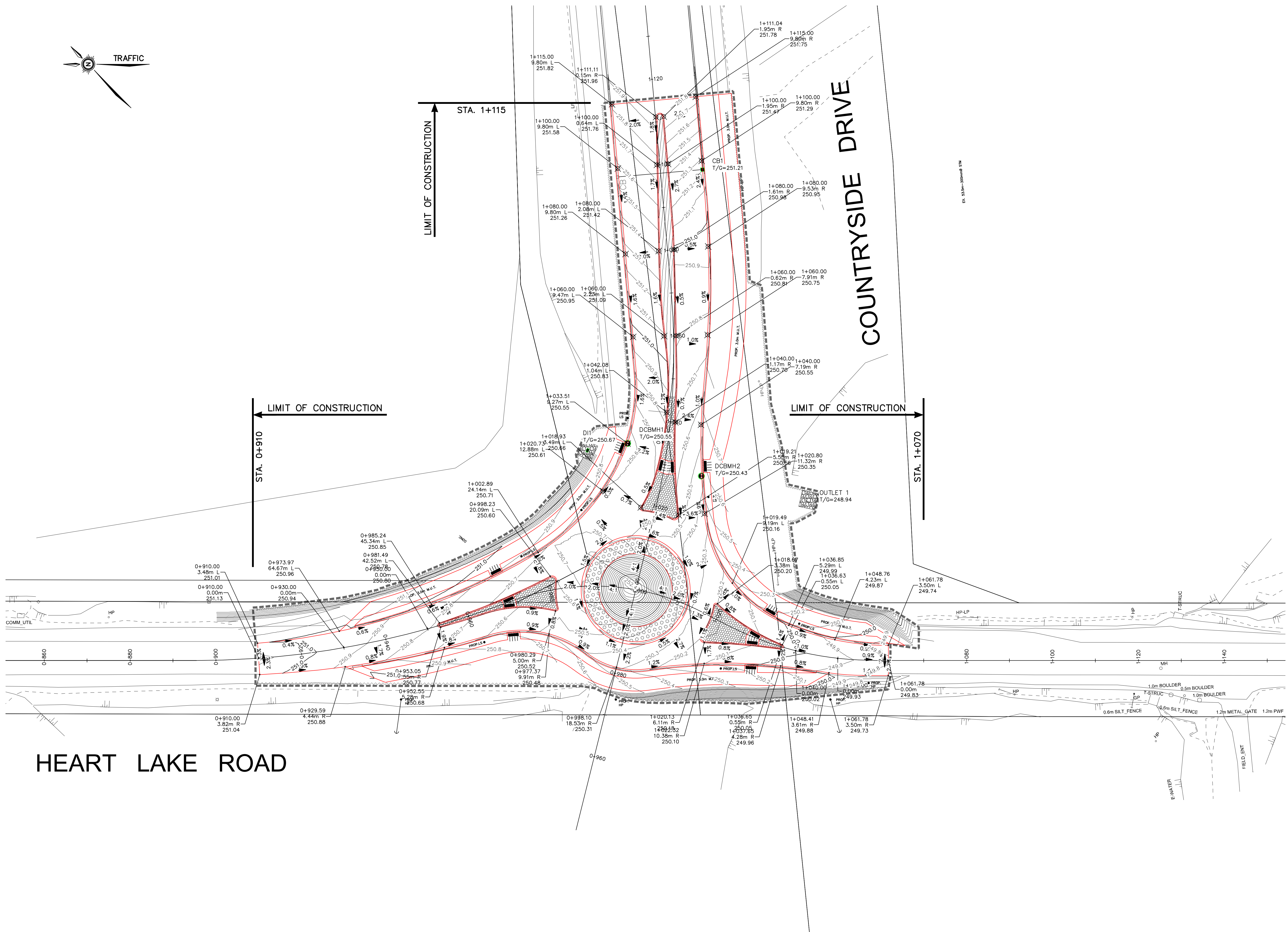
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GEODETIC BM ELEV. = m

- NOTES:
- FOR CATCHBASIN, AND CB MANHOLES, OFFSETS ARE GIVEN TO THE EDGE OF PAVEMENT, TOP OF GRATE ELEVATIONS ARE THE FINISHED GRADE AT THE EDGE OF PAVEMENT. FOR SIDE INLET CATCHBASINS AND SIBC MANHOLES, OFFSETS ARE GIVEN TO THE BACK OF CURB, TOP OF GRATE ELEVATIONS ARE AT BACK OF CURB. FOR MANHOLES, AND OTHER STRUCTURES NOT LOCATED ALONG CURB LINES, OFFSETS ARE GIVEN TO THE CENTER OF THE STRUCTURE AND ELEVATIONS ARE THE FINISHED PAVEMENT ELEVATIONS.
 - REFER TO DWG CS2.1 FOR GENERAL NOTES.
 - CONTOURS SHOWN ARE FOR PROPOSED CONDITIONS. (FINISHED GRADE)

- LEGEND:
- LIMIT OF GRADING
 - PROPOSED ELEVATION AT EDGE OF PAVEMENT
 - 250.81 STATION
 - 1+060.00 PROPOSED OFFSET FROM CENTERLINE
 - x LAYOUT POINT



HEART LAKE ROAD

COUNTRYSIDE DRIVE

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CITY OF BRAMPTON

PROJECT
HEART LAKE RD. & COUNTRYSIDE DR.

DRAWING
PROPOSED PAVEMENT & OFFSET ELEVATIONS PLAN

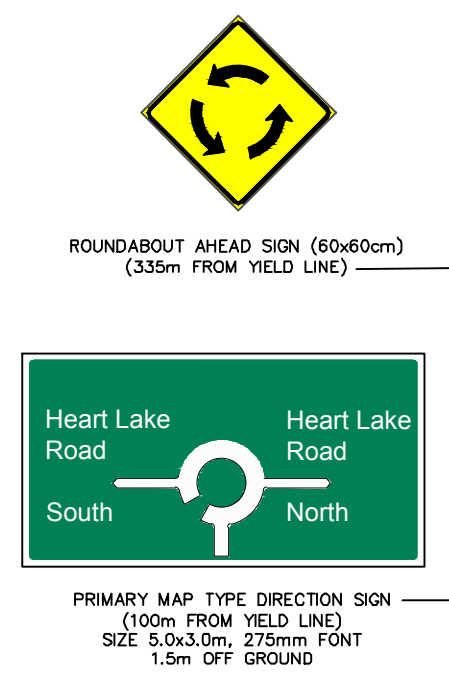
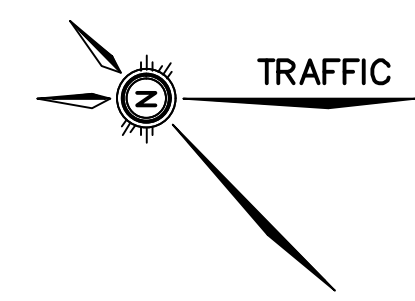
HEART LAKE ROAD
COUNTRYSIDE DRIVE

Project Manager	VPP	Project No.	47877-100
Design By	DXL	Checked By	VPP
Drawn By	PFR	Checked By	
Surveyed By	BRAMPTON	Drawing No.	
Date	MAR. 30, 2022		PE4.1
Scale	HOR. 1:400		Sheet 6 of 7

April 5, 2022 2:35 p.m. Plotted By: praimbault

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April 5, 2022 2:32 p.m. Plotted By: praimbault



Heart Lake Road
Countryside Drive

PRIMARY MAP TYPE DIRECTION SIGN
(100m FROM YIELD LINE)
SIZE 5.0x3.0m, 275mm FONT
1.5m OFF GROUND



ROUNDBOAT AHEAD SIGN (60x60cm)
(335m FROM YIELD LINE)



R0-25 KEEP RIGHT
W0-33R OBJECT MARKER



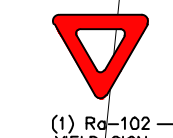
PEDESTRIAN CROSSOVER SIGN
(50m FROM CROSSING)



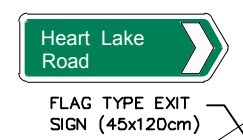
FISH-HOOK
LANE DESIGNATION SIGN
(30m FROM CROSSING)



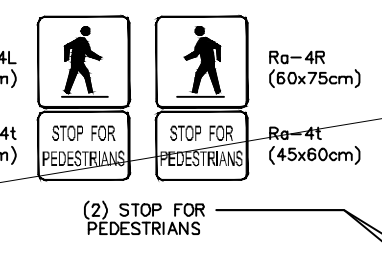
R0-4L (60x75cm)
R0-4R (60x75cm)
R0-4L (45x60cm)
R0-4R (45x60cm)
(2) STOP FOR PEDESTRIANS



(1) R0-102
YIELD SIGN



Heart Lake Road
FLAG TYPE EXIT SIGN (45x120cm)



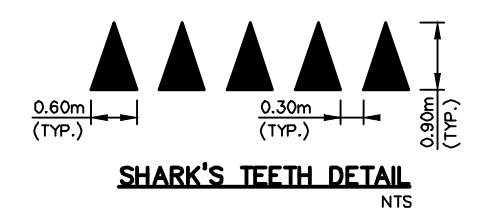
R0-4L (60x75cm)
R0-4R (60x75cm)
R0-4L (45x60cm)
R0-4R (45x60cm)
(2) STOP FOR PEDESTRIANS



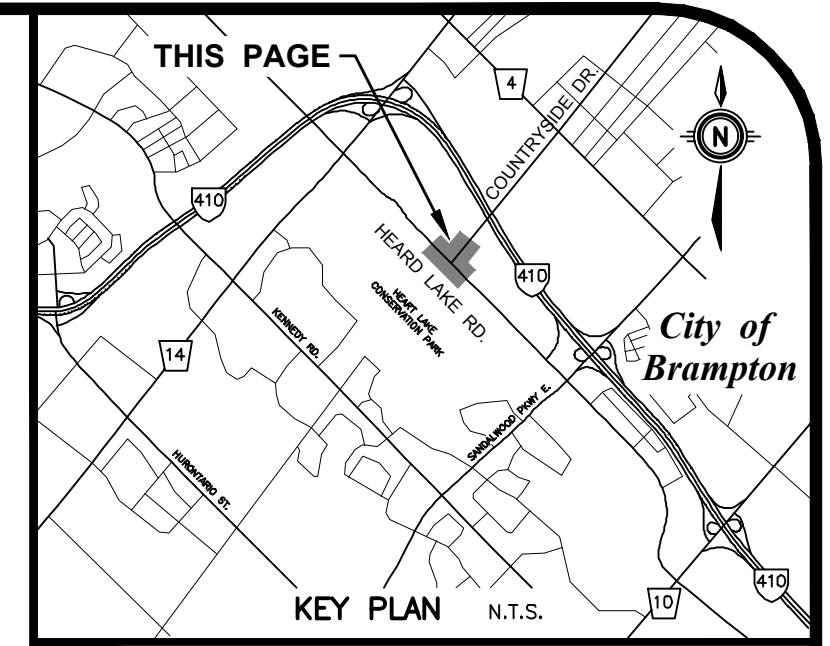
R0-25 KEEP RIGHT
W0-33R OBJECT MARKER

COUNTRYSIDE DRIVE

PAVEMENT MARKING LEGEND	
1	SOLID YELLOW, 10cm
2	SOLID DOUBLE YELLOW, 10cm
3	363 BROKEN YELLOW, 10cm
4	SOLID YELLOW, 20cm
5	SOLID WHITE, 10cm
6	333 BROKEN WHITE, 10cm
7	363 BROKEN WHITE, 10cm
9	SOLID WHITE, 20cm
10	111 BROKEN WHITE, 10cm
11	333 BROKEN WHITE, 20cm
13	333 BROKEN WHITE, 30cm
14	SOLID WHITE, 30cm
15	SOLID WHITE, 60cm
16	111 BROKEN WHITE, 45cm
20	SOLID WHITE, SYMBOLS AND ARROWS
21	121 BROKEN WHITE, 10cm
22	1.8 BROKEN WHITE, 10cm
23	WHITE DOTS 10cm AT 1.8 SPACINGS
24	ELPHANTS FEET WHITE 20cm SQUARES AT 20cm SPACING OR 40cm SQUARES AT 40cm SPACING
25	SHARK TEETH WHITE TRIANGLE 60x90cm AT 30cm SPACING



SHARK'S TEETH DETAIL
M15



KEY PLAN N.T.S.

GEODETIC BM ELEV. = m

- NOTES
- 333, 363, 363, DENOTES PAVEMENT MARKING SPACING (E., 3m LINE, 3m GAP, 3m LINE)
 - ① DENOTES PAVEMENT MARKING
 - ① DENOTES PAVEMENT MARKING, DURABLE
 - ① DENOTES PAVEMENT MARKING, TEMPORARY-REMOVABLE
 - ① DENOTES PAVEMENT MARKING, TEMPORARY

1.	ISSUED FOR 30% REVIEW	DXH	APR. 5 2022
No.	ISSUE/REVISION	BY	DATE



Engineers, Scientists, Surveyors

519-743-6500

CITY OF BRAMPTON

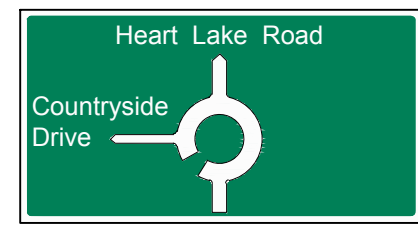
PROJECT
HEART LAKE RD. & COUNTRYSIDE DR.

DRAWING
PROPOSED PAVEMENT MARKINGS PLAN

HEART LAKE ROAD COUNTRYSIDE DRIVE

Project Manager	VPP	Project No.	47877-100
Design By	DXL	Checked By	VPP
Drawn By	PFR	Checked By	
Surveyed By	BRAMPTON	Drawing No.	PM1.1
Date	MAR. 30, 2022		
Scale	HOR. 1:400	Sheet	7 of 7

HEART LAKE ROAD

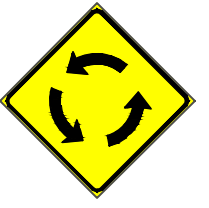


Heart Lake Road
Countryside Drive

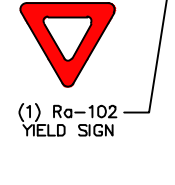
PRIMARY MAP TYPE DIRECTION SIGN
(100m FROM YIELD LINE)
SIZE 5.0x3.0m, 275mm FONT
1.5m OFF GROUND



PEDESTRIAN CROSSOVER SIGN
(50m FROM CROSSING)



ROUNDBOAT AHEAD SIGN (60x60cm)
(335m FROM YIELD LINE)



(1) R0-102
YIELD SIGN



(3) R0-121a ONE-WAY SIGN (60x200cm)
AND (4) W0-33R OBJECT MARKER (60x200cm)
LOCATED ON CENTRAL ISLAND
DIRECTLY OPPOSITE APPROACH LINES,
1.2m OFF APPROX.
USE (2) 100x100mm PRESSURE TREATED POST
2.5m LONG.
(MOUNT SO TOP IS 1.05m ABOVE GROUND)



R0-4L (60x75cm)
R0-4R (60x75cm)
R0-4L (45x60cm)
R0-4R (45x60cm)
(2) STOP FOR PEDESTRIANS