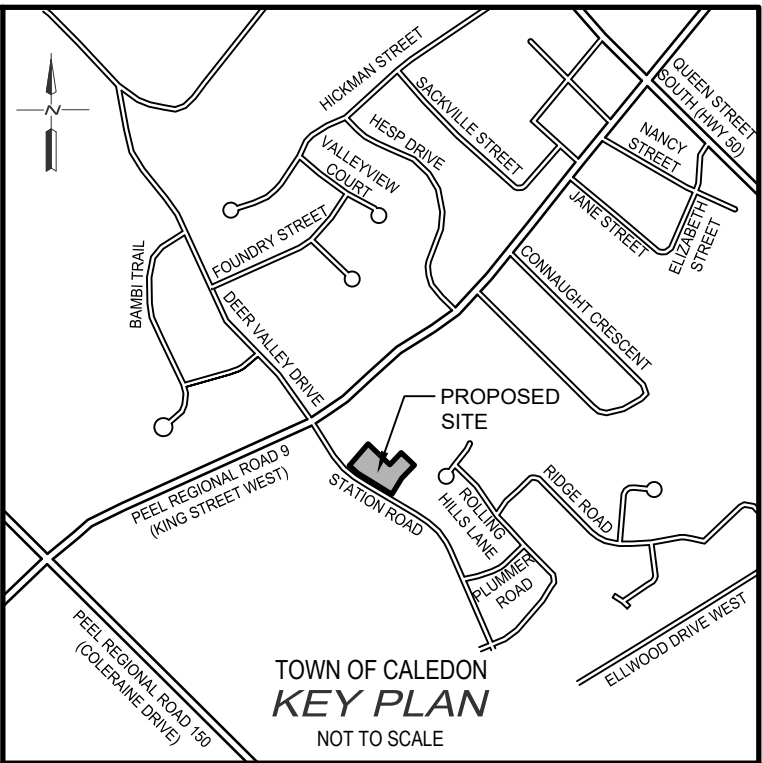


P:\E:\Projects\2024\14 Station Road\14 Station Road\14 Station Road.dwg - 14 Station Road.dwg - 14 Station Road.dwg
 LAST SAVED BY: E:\Users\jg\Documents\14 Station Road.dwg - 14 Station Road.dwg - 14 Station Road.dwg
 LAST SAVED DATE: 2024/11/14 11:19 AM

LEGEND

	PROPERTY LINE
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. WATERMAIN
	EX. DITCH
	EX. BELL LINE
	EX. GAS LINE
	EX. FENCE LINE
	EX. CONTOURS
	EX. CATCH BASIN
	EX. FIRE HYDRANT
	EX. LIGHT STANDARD
	HEDGE
	CONIFEROUS/DECIDUOUS TREES
	CONIFEROUS/DECIDUOUS TREES TO BE REMOVED
	SITE FEATURES TO BE REMOVED



NOTES

- EXISTING TOPOGRAPHIC AND LEGAL SURVEY WAS COMPLETED BY SCHAEFFER DZALDOV BENNETT LTD DATE NOVEMBER 8, 2023.
- PROPOSED SITE PLAN AND LANDSCAPING PROVIDED BY ALEXANDER BUDREVICS & ASSOCIATES LIMITED LANDSCAPE ARCHITECTS DATED NOVEMBER 14, 2023.

3 1 0 2 4 8
1:200 (m)

TOWN FILE NUMBER
DART RZ 204-0003

BENCH MARKS :
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY CONTROL NO. 00619758057 HAVING A PUBLISHED ELEVATION OF 251.929 METRES (CGVD28.78)

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 ANY DAMAGE TO THEM.

NO.	DATE	REVISION DESCRIPTION	CHKD.
4.	02/04/2026	REVISED PER TOWN AND REGION COMMENTS	P.G.
3.	09/23/2024	REVISED PER TOWN AND REGION COMMENTS	P.G.
2.	01/30/2024	UPDATED PER REVISED SITE PLAN	P.G.
1.	01/04/2024	ISSUED FOR APPROVAL	P.G.

GEI Consultants
 GEI CONSULTANTS, CANADA, LTD.
 330 TRILLIUM DRIVE
 UNIT D
 KITCHENER, ONTARIO N2E 3J2
 519.748.1440

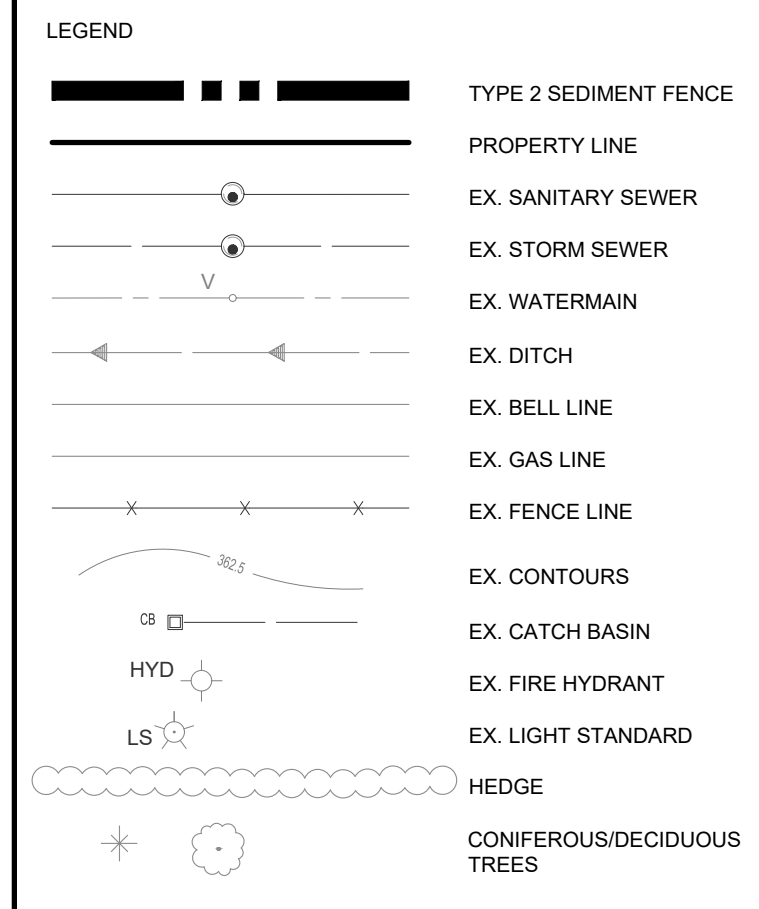
14 STATION ROAD

KING STATION FACILITY INC.

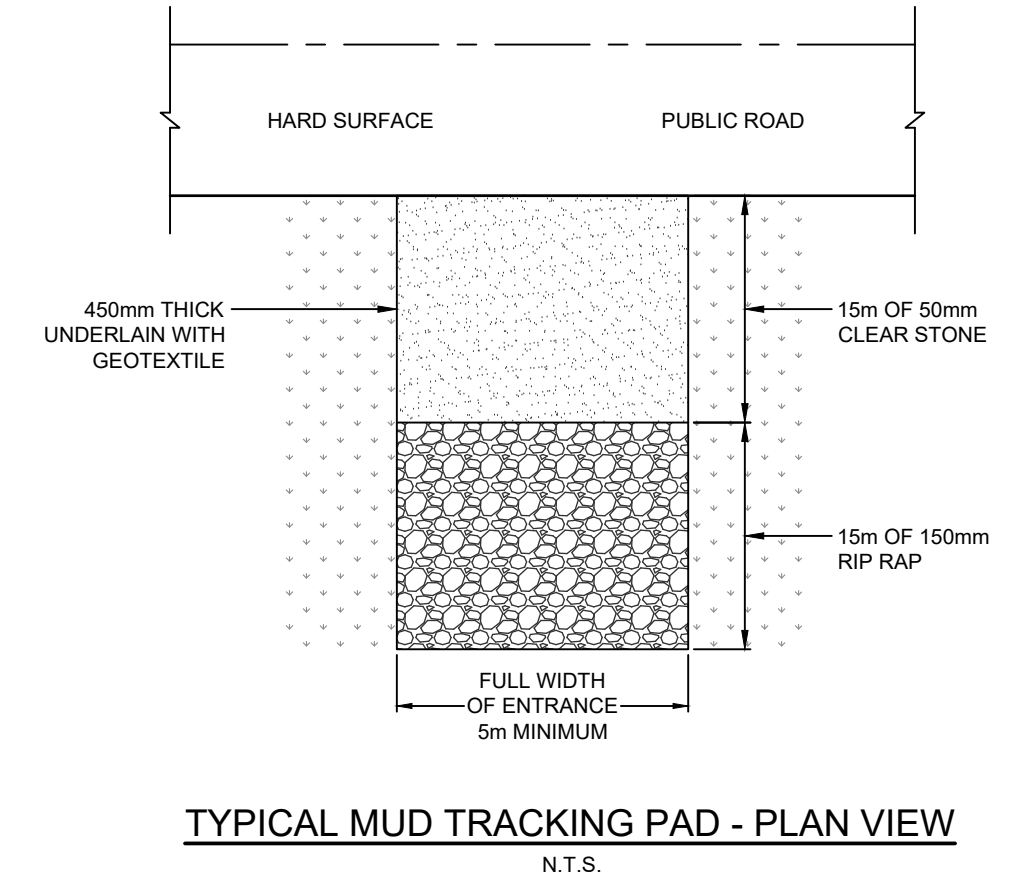
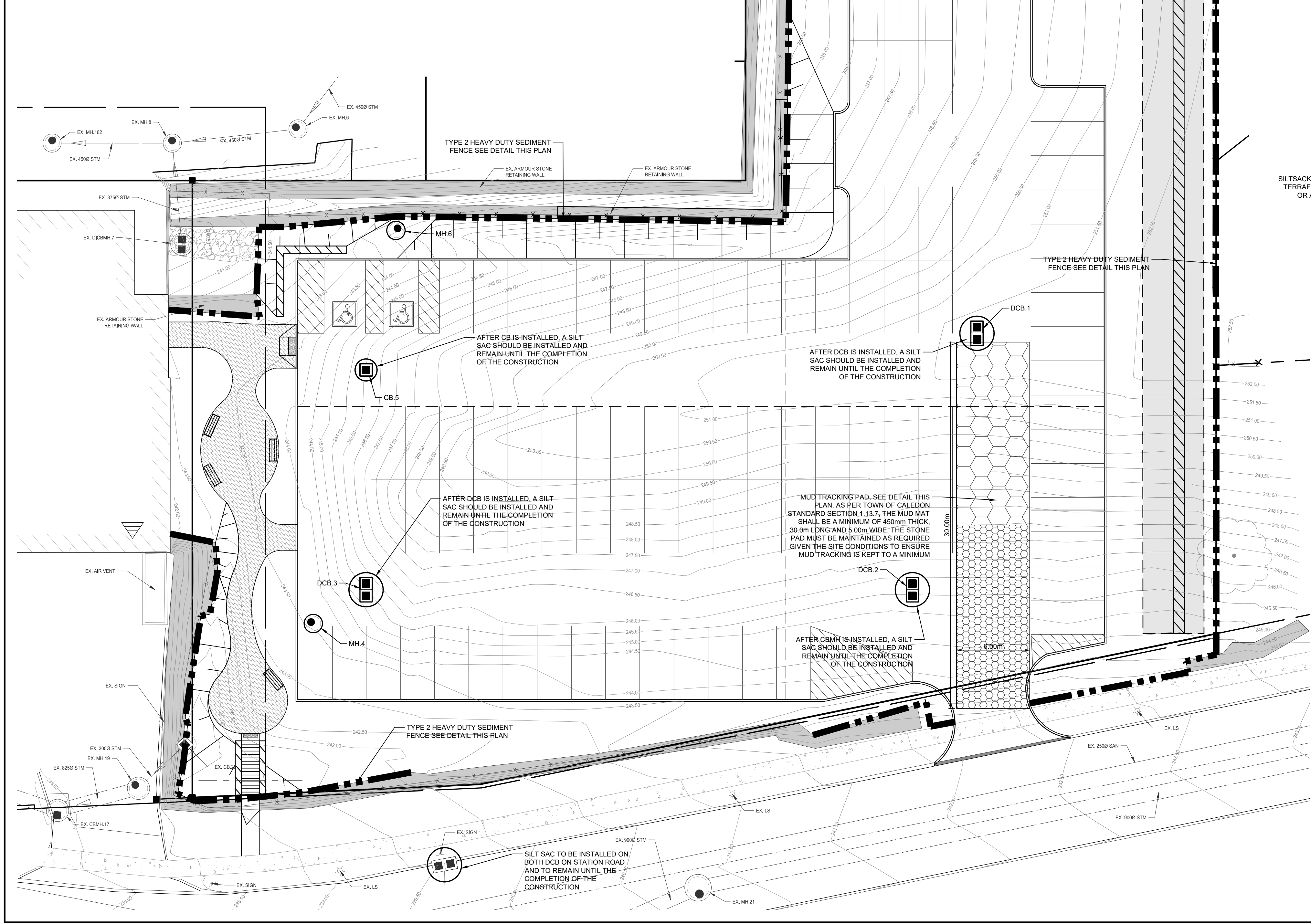
TOWN OF CALEDON

EXISTING CONDITIONS AND REMOVALS PLAN

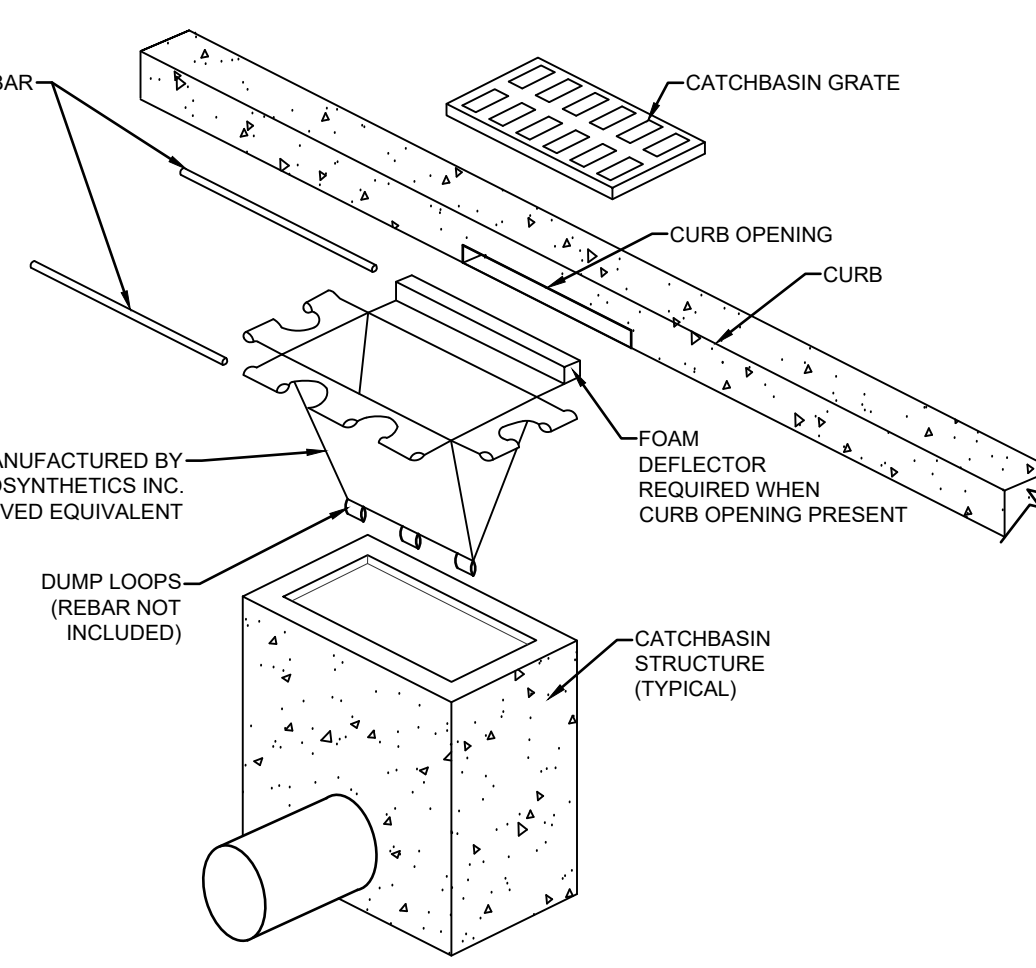
DRAWN BY:	APPROVED BY:	PROJECT NO.:	DRAWING NO.:
E.B.	P.G.	423091	1
DESIGNED BY:	DATE:	SCALE:	
P.G.	NOV 2023	1:200	



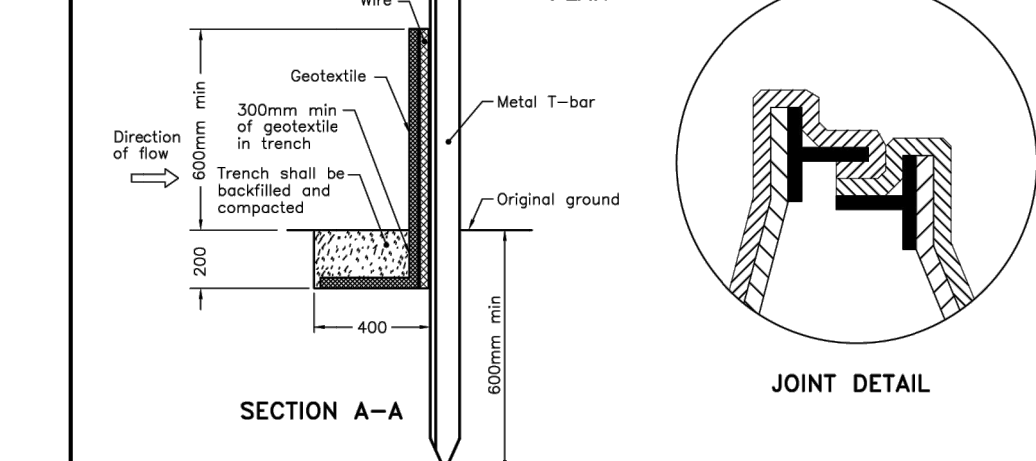
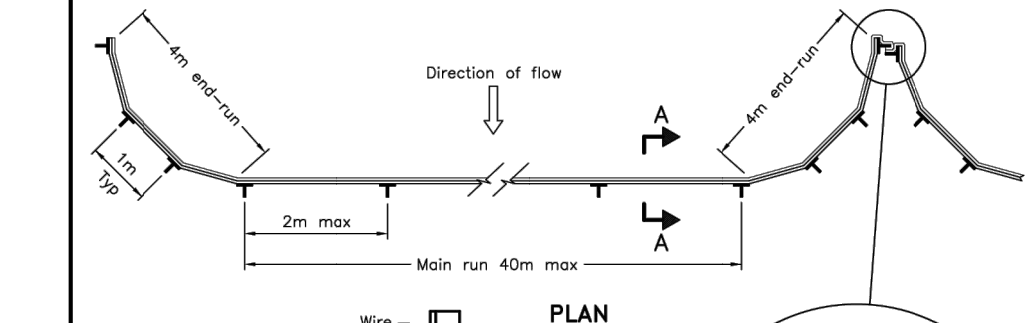
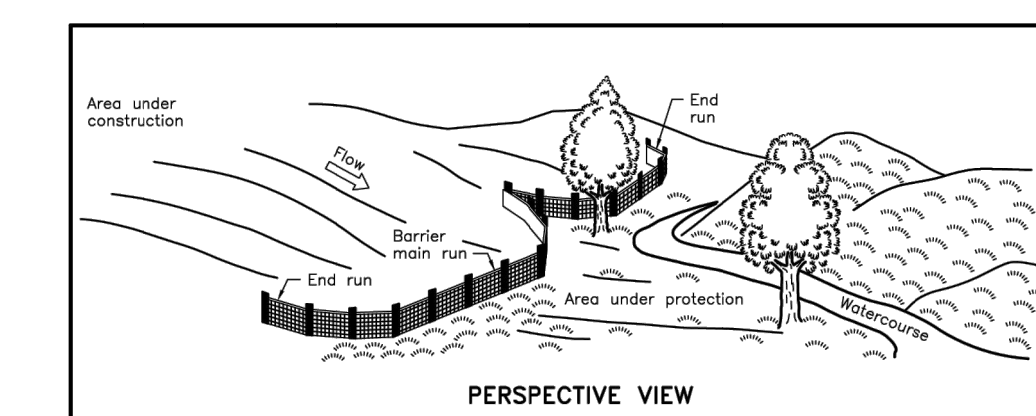
- SEDIMENT AND EROSION CONTROL NOTES**
1. SITE WORKS ARE TO BE STAGED IN SUCH A MANNER THAT EROSION WILL BE MINIMIZED AND THAT BARRIERS AND SEDIMENTATION FACILITIES WITHIN THE SITE ARE PROVIDED TO CONTROL ANY EROSION THAT DOES OCCUR.
 2. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, A SEDIMENT POND OR STORAGE AREA MUST BE ESTABLISHED TO COLLECT SURFACE DRAINAGE FROM ALL AREAS THAT WILL BE DISTURBED. WATER PUMPED FROM EXCAVATION OR DEWATERING OPERATIONS MUST BE DIRECTED TO THE SEDIMENT POND.
 3. ALL SILT FENCING TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY GRADING EXCAVATION OR DEMOLITION.
 4. CLEARING AND GRUBBING OF THE SITE SHOULD BE KEPT TO A MINIMUM AND VEGETATION REMOVED ONLY IN ADVANCED OF IMMEDIATE CONSTRUCTION.
 5. STOCKPILES OF EARTH OR TOPSOIL ARE TO BE LOCATED AND PROTECTED TO MINIMIZE ENVIRONMENTAL INTERFERENCE. STOCKPILES SHOULD NOT BE LOCATED IMMEDIATELY ADJACENT TO DITCHES OR ROAD ALLOWANCES. EROSION CONTROL FENCING IS TO BE INSTALLED AROUND THE BASE OF ALL STOCKPILES. A PERIMETER DITCH LEADING TO A SETTLING AREA OR SEDIMENTATION TRAP SHOULD BE INSTALLED AROUND THE STOCKPILE.
 6. EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MANHOLES CATCH BASINS, DITCHES SWALES AND WATERCOURSES.
 7. ADDITION EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. THE CONTRACTOR IS TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.
 8. THE DESIGN CONSULTANT IS TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO CITY REQUIREMENTS.
 9. EROSION CONTROL STRUCTURES ARE TO BE MONITORED REGULARLY AND ANY DAMAGE TO STRUCTURES REPAIRED IMMEDIATELY. SEDIMENTS ARE TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 50% OF THE FENCE. CLOGGED FILTER MATERIALS SUCH AS CRUSHED STONE, STRAW BALES OR FILTER CLOTH MUST BE REPLACED AS REQUIRED.
 10. ALL EROSION CONTROL STRUCTURES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
 11. NO ALTERNATIVE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE DESIGN CONSULTANT AND THE TOWN.
 12. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MUNICIPAL ROADWAYS AND SIDEWALKS AREA CLEANED OF ALL SEDIMENTS FROM VEHICULAR TRACKING ETC. TO AND FROM THE SITE AT THE END OF EACH WORK DAY.
 13. ALL DISTURBED AREAS NOT INCLUDED IN CONSTRUCTION TO BE RE-TOPSOILED AND RE-SEEDED IMMEDIATELY AFTER COMPLETION OF AREA GRADING.



NOTE: THE CONTRACTOR SHALL INSPECT MUD TRACKING PAD WEEKLY AS WELL AS AFTER ANY RAINFALL EVENT GREATER THAN 13mm. SHOULD THE MUD TRACKING PAD NOT BE FUNCTIONING AS DESIGNED, THE CONTRACTOR SHALL REPLACE THE CLEAR STONE IMMEDIATELY. LOCATION AND WIDTH OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY CONTRACTOR AND APPROVED BY THE ENGINEER.



1. REFER TO MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION AND MAINTENANCE PROCEDURES.

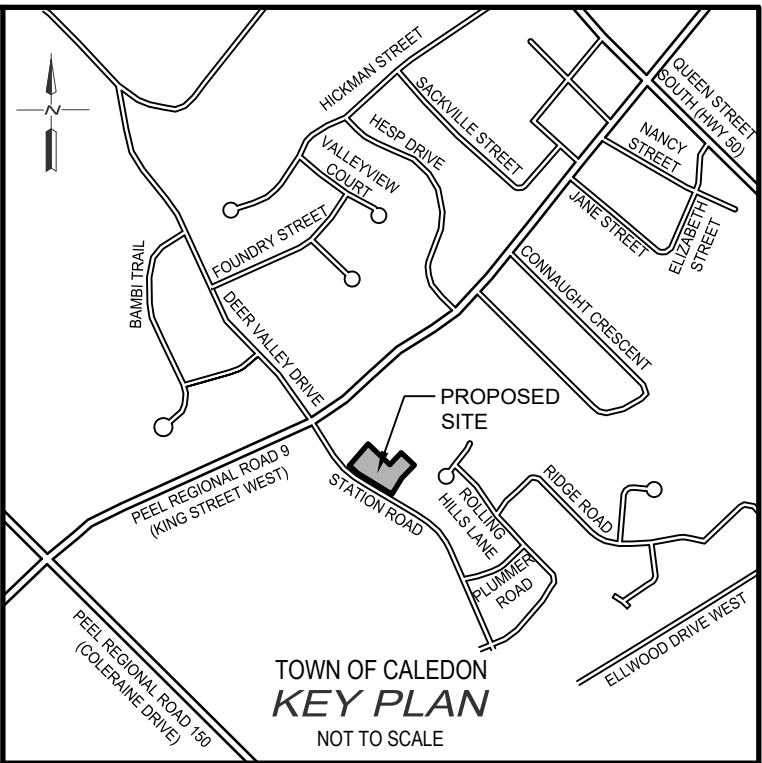


NOTE: A All dimensions are in millimetres unless otherwise shown.

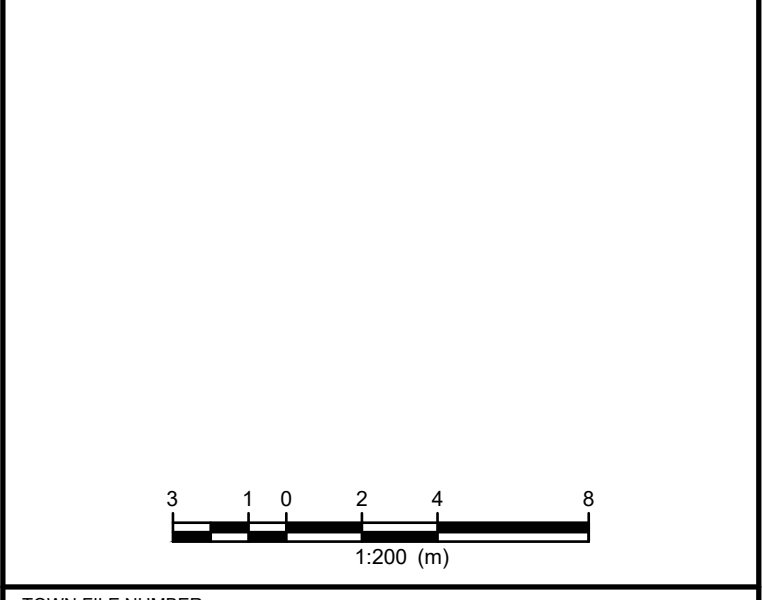
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 1

HEAVY-DUTY WIRE-BACKED SILT FENCE BARRIER

OPSD 219.131

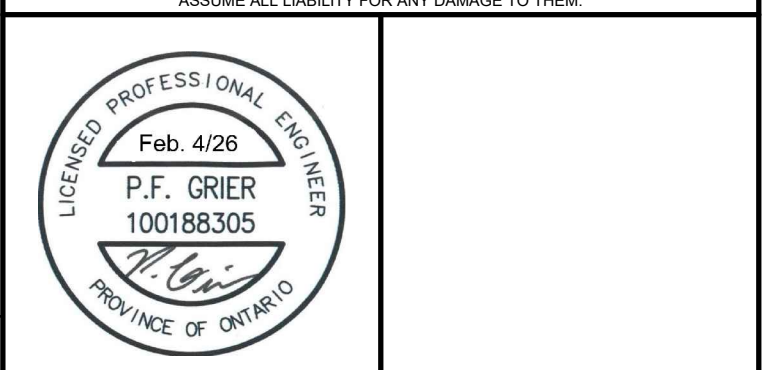


- NOTES**
1. EXISTING TOPOGRAPHIC AND LEGAL SURVEY WAS COMPLETED BY SCHAEFFER DZALDOV BENNETT LTD DATE NOVEMBER 8, 2023.
 2. PROPOSED SITE PLAN AND LANDSCAPING PROVIDED BY ALEXANDER BUDREVICS & ASSOCIATES LIMITED LANDSCAPE ARCHITECTS DATED NOVEMBER 14, 2023.



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 ANY DAMAGE TO THEM.



NO.	DATE	REVISION DESCRIPTION	CHKD
4.	02/04/2026	REVISED PER TOWN AND REGION COMMENTS	P.G.
3.	09/23/2024	REVISED PER TOWN AND REGION COMMENTS	P.G.
2.	01/30/2024	UPDATED PER REVISED SITE PLAN	P.G.
1.	01/04/2024	ISSUED FOR APPROVAL	P.G.

GEI Consultants
GEI CONSULTANTS, CANADA, LTD.
330 TRILLIUM DRIVE
UNIT D
KITCHENER, ONTARIO N2E 3J2
519.748.1440

14 STATION ROAD

KING STATION FACILITY INC.

TOWN OF CALEDON

EROSION AND SEDIMENT CONTROL PLAN

DRAWN BY: E.B. APPROVED BY: P.G. PROJECT NO.: 423091 DRAWING NO.: 3

DESIGNED BY: P.G. DATE: NOV 2023 SCALE: 1:200

P:\E\Projects\2024\2024-0003\2024-0003 - Erosion Control\2024-0003 - Erosion Control\PLAN.dwg
 LAYOUT: 2024-02-28 10:00:00 AM
 LAST SAVED BY: P.G. 2024-02-28 10:00:00 AM
 PLOT DATE: 2024-02-28 10:00:00 AM
 PLOT BY: P.G.

GENERAL NOTES

- DRAWINGS ARE NOT TO BE SCALED.
- ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE SITE PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS THE STANDARD TOWN, REGION (OR COUNTY), MTO AND OPSD DRAWINGS AND OPSs ARE TO CONSTITUTE PART OF THIS CONTRACT AND DRAWINGS.
- REFER TO O.B.C. - 2024 STANDARDS AND SPECIFICATIONS AND TOWNSHIP SPECIFICATIONS AND STANDARD DRAWINGS FOR LIST OF APPROVED MANUFACTURERS AND MATERIALS.
- EXISTING STRUCTURES ARE NOT TO BE DISTURBED, NOR ENCR OACH ON ADJACENT PROPERTIES UNLESS INSTRUCTED BY THE ENGINEER.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNERS CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO THE FOLLOWING PERMITS, ROAD CUTS, SEWER PERMITS, RELOCATION OF SERVICES, ENCR OACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS, ETC.
- PRIOR TO CONSTRUCTION, THE ENGINEER IS TO BE NOTIFIED BY THE OWNER AND THE CONTRACTOR AS TO THE EXTENT OF THE CONSTRUCTION LIMITS THEY PROPOSE. THE TOWN, BUILDING AND PLUMBING OFFICIALS ARE TO BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE SERVICING PLANS, LANDSCAPE PLAN, SITE ELECTRICAL PLANS, AND ANY OTHER PLANS OR DRAWINGS WHICH DEPICT WORKS THAT ARE PROPOSED FOR THIS SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS FOR THE TOWNSHIP AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR ONTARIO.
- THE CONTRACTOR SHALL ENDEAVOUR TO PREVENT MUD TRACKING ONTO EXISTING RIGHT-OF-WAYS AND SHALL PROVIDE FOR CLEANUP AT HIS OWN EXPENSE AS DIRECTED BY THE TOWNSHIP. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTROL DUST ON THE PROJECT AND HE SHALL PROVIDE CONTROLLING MEASURES AS DIRECTED BY THE TOWN.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO AND DURING CONSTRUCTION. LOCATION OF EXISTING UTILITIES TO BE VERIFIED IN THE FIELD.
- ALL SERVICES AND/OR UTILITIES LOCATED ON CONCRETE SIDEWALKS OR CURBS TO BE ISOLATED FROM THE SIDEWALK OR CURB AS PER OPSD 310.040.
- ALL UTILITIES SHALL BE LOCATED, SUPPORTED AND PROTECTED TO THE SATISFACTION OF THE UTILITY COMPANY DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE TOWN.
- THE CONTRACTOR IS TO OBTAIN, AND PAY FOR ANY NECESSARY PERMITS FOR ANY MUNICIPAL ROAD CUTS FOR THE INSTALLATION OF SANITARY, STORM, AND WATER SERVICE CONNECTIONS. ROAD CUTS TO BE RESTORED AS PER TOWN SATISFACTION.
- BLASTING WILL NOT BE ALLOWED UNLESS AUTHORIZED BY THE TOWN.
- ANY UTILITY RELOCATIONS DUE TO THIS DEVELOPMENT TO BE UNDERTAKEN AT THE EXPENSE OF THE OWNER/DEVELOPER.
- ALL DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND THE PROPERTY OF THE ENGINEER WHICH MUST BE RETURNED AT THE COMPLETION OF WORK.
- DRIVEWAYS SHALL BE SETBACK A MINIMUM CLEARANCE OF 1.0m FROM ALL ABOVEGROUND SERVICES OR OTHER OBSTRUCTIONS.
- ALL CONSTRUCTION WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- ANY CONFLICTS WITH EXISTING SERVICES SHALL BE RECTIFIED AT THE OWNER'S EXPENSE.

SERVICING NOTES - STORM

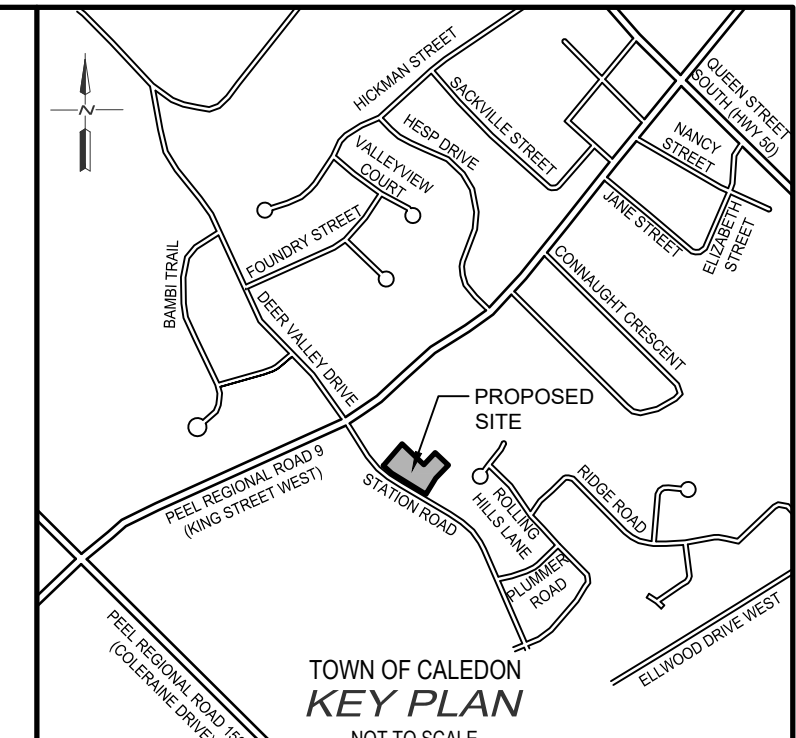
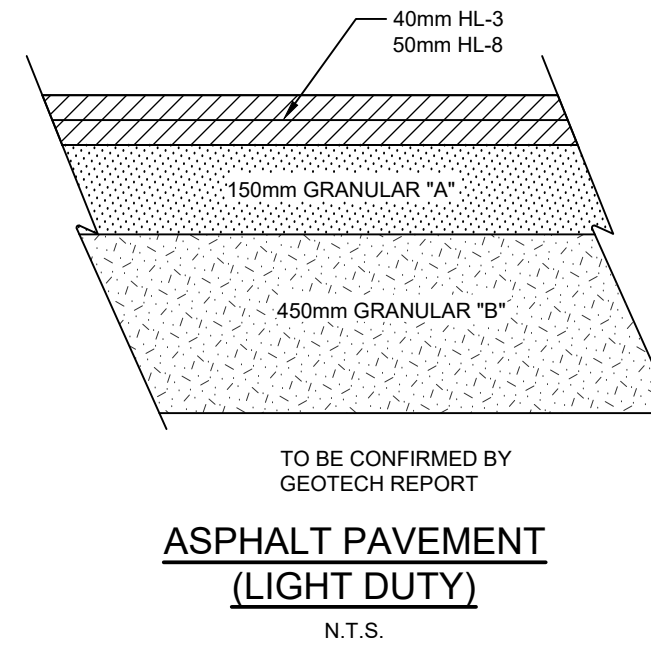
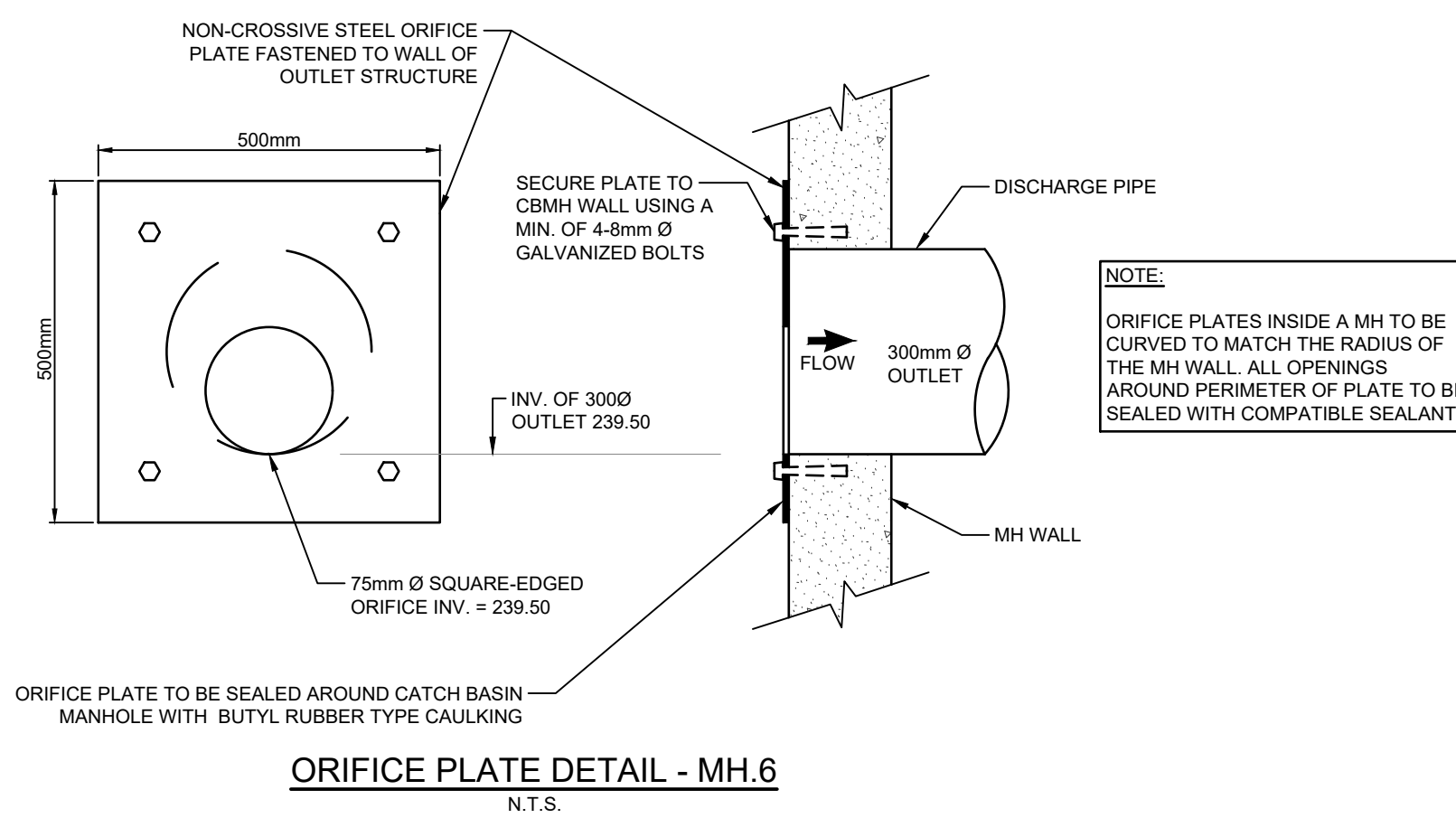
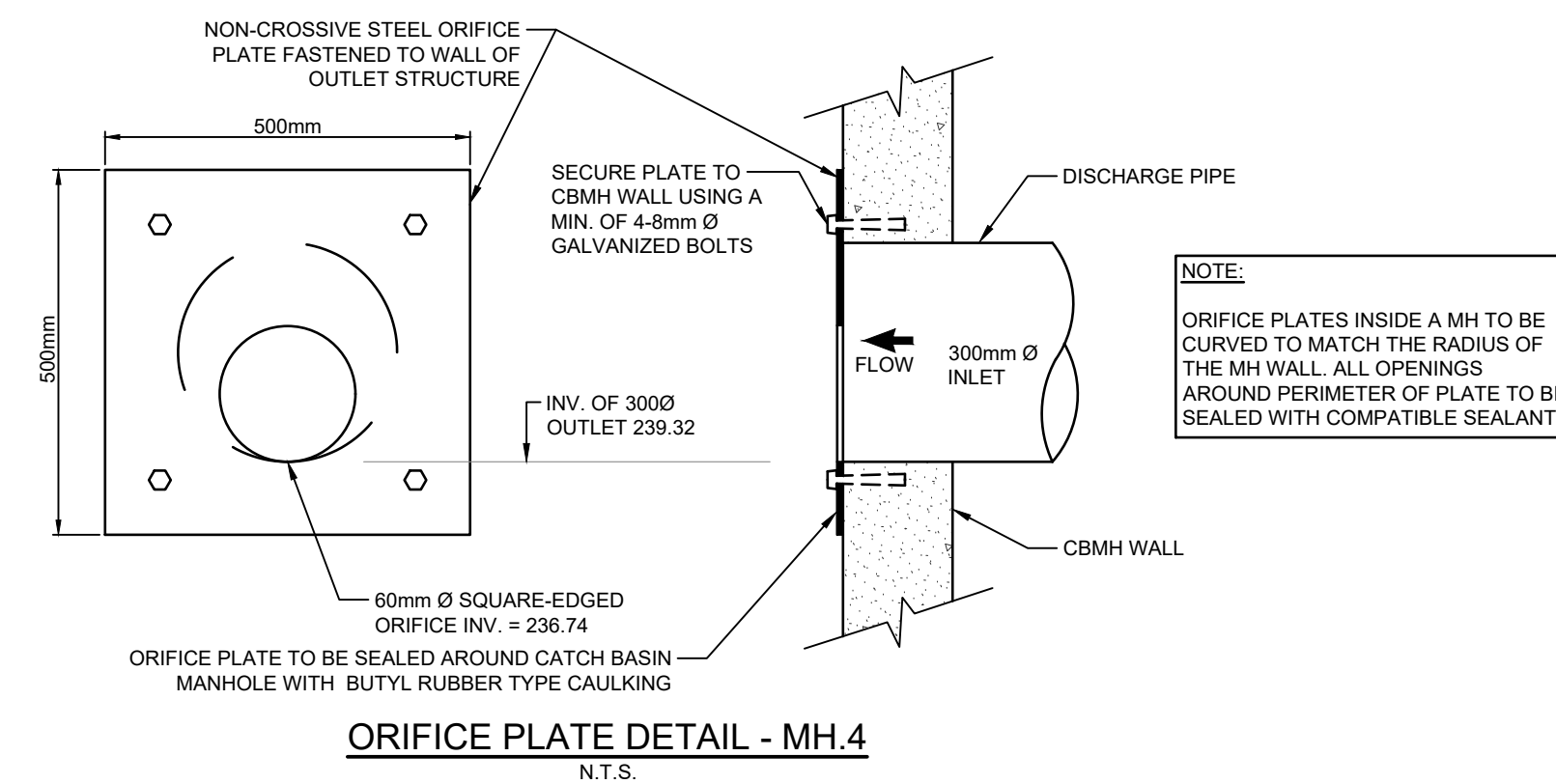
- ALL STORM SEWERS 375mmØ AND SMALLER TO BE PVC SDR 35 IN ACCORDANCE WITH CSA-B182.2 ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS. 450mmØ AND LARGER TO BE CONCRETE IN ACCORDANCE WITH CSA A257.2, CLASS 650 OR LATEST REVISIONS. UNLESS OTHERWISE NOTED.
- BEDDING FOR PVC STORM SEWERS AS PER OPSD 802.010, GRANULAR 'A', COMPACTED TO 98% SPD.
- BEDDING FOR CONCRETE PIPE AS PER OPSD-802.030, CLASS B, GRANULAR 'A', COMPACTED TO 98% SPMDD.
- EXISTING SEWER INVERTS, MATERIAL TYPE, AND SIZE TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL CATCHBASINS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD 705.010 OR OPSD 705.020. ALL CATCHBASIN FRAMES AND COVERS IN THE ROADWAY AS PER OPSD 400.110. ALL CATCHBASIN FRAMES AND COVERS IN WALKWAY AREAS AS PER OPSD 400.100.
- ALL EXISTING SEWERS ARE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
- ALL CATCHBASIN LEADS TO BE MINIMUM 250mmØ PVC SDR 35 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034, OR NON-REINFORCED CONCRETE PIPE, OR BOSS 2000 HDPE IN ACCORDANCE WITH CSA-B182.8, ASTM D-3350, UNLESS NOTED OTHERWISE.
- ALL MAINTENANCE HOLES AND CATCHBASIN MAINTENANCE HOLES SHALL BE BENCHED UP TO 3/4 HEIGHT REGARDLESS OF PIPE SIZE. ALL BENCHING SHALL SLOPE UP AND AWAY FROM THE PIPE AT 8% SLOPE. STORM SEWER MAINTENANCE HOLES SHALL NOT BE PRE-BENCHED BY THE MANUFACTURER EXCEPT IN NEW DEVELOPMENT. BENCHING MAINTENANCE HOLES MUST BE COMPLETED DURING CONSTRUCTION ON SITE.

GRADING

- THE GRADING PLAN IS TO BE READ WITH THE SITE SERVICES DRAWINGS.
- CONTRACTOR TO RESTORE AREAS ON PUBLIC R.O.W. OR ADJACENT LANDS THAT HAVE BEEN DISTURBED DURING CONSTRUCTION.
- ALL DRIVEWAY AND GRADING MATERIAL AND CONSTRUCTION METHODS MUST CONFORM TO CURRENT TOWN STANDARDS AND SPECIFICATIONS.
- ALL FILL WITHIN THE SITE TO BE COMPACTED TO A MIN. OF 98% Std. PROCTOR DRY DENSITY. ALL FILL WITHIN THE SITE PARKING AREA TO BE COMPACTED TO A MIN. OF 95% SPD. THE SUITABILITY OF ALL FILL MATERIALS ARE TO BE CONFIRMED BY A RECOGNIZED SOILS CONSULTANT TO THE DIRECTOR OF PUBLIC WORKS PRIOR TO INSTALLATION OF ANY ROAD BASE MATERIALS.
- LANDSCAPING SHALL NOT ENCR OACH ON BOULEVARD NOR SHALL BOULEVARD GRADES BE ALTERED.
- SILT FENCE(S) TO BE INSTALLED AND MAINTAINED TO PREVENT SILT FLOWING ONTO ADJACENT LANDS. SILTATION CONTROL SHALL BE ERECTED PRIOR TO ANY GRADING OR CONSTRUCTION AND SHALL BE IN GOOD REPAIR THROUGHOUT THE CONSTRUCTION AND GRADING PHASES.
- ANY CHANGES IN GRADES, CATCH BASINS, SERVICES LATERALS, STORM AND SANITARY SEWERS REQUIRE THE APPROVAL OF GEI CONSULTANTS CANADA LTD.
- THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF GEI CONSULTANTS CANADALTD.
- ALL LANDSCAPING TO BE INSTALLED AS SOON AS POSSIBLE OR PRIOR TO THE END OF THE FIRST GROWING SEASON. LANDSCAPING TO BE MAINTAINED UNTIL IT IS ESTABLISHED.
- ALL COMPACTION TO BE CERTIFIED BY A GEOTECHNICAL CONSULTANT.
- ALL CURBS ARE TO BE 150mm ABOVE THE PROPOSED GUTTER LINE (G/L) UNLESS NOTED OTHERWISE.
- PAVEMENT GRADE SHALL BE MIN. 0.5%, MAX. 8%.
- DRAINAGE SWALE GRADE SHALL BE MIN. 2%, MAX. 6%.
- SLOPES IN LANDSCAPE AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL, UNLESS NOTED OTHERWISE.

GENERAL TESTING AND INSPECTION NOTES

- TESTING OF ALL SERVICES BY GENERAL CONTRACTOR.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING GEI CONSULTANTS CANADA LTD FOR THE COMPLETION OF ALL REQUIRED SITE INSPECTIONS.
- ALL STORM SEWERS ARE TO BE MANDREL TESTED PRIOR TO FINAL ACCEPTANCE BY THE ENGINEER. ALL MANDREL TESTING AS PER OPSs 410.
- ALL STORM REQUIRE FIELD INSPECTION BY THE SITE SERVICING ENGINEERING DURING INSTALLATION INSPECTION SERVICES REQUIRE A MINIMUM OF 4 HOURS NOTICE.



NOTES

- EXISTING TOPOGRAPHIC AND LEGAL SURVEY WAS COMPLETED BY SCHAEFFER DZALDOV BENNETT LTD DATE NOVEMBER 8, 2023.
- PROPOSED SITE PLAN AND LANDSCAPING PROVIDED BY ALEXANDER BUDREVICS & ASSOCIATES LIMITED LANDSCAPE ARCHITECTS DATED NOVEMBER 14, 2023.

Notes

- Recommended depth t/g - invert = 1.2m
- Maximum depth t/g - invert = 2.4m
- CB Shield to be installed in non frozen conditions.
- The frame and cover should be well aligned with the catchbasin.
- The sump must be clean before installation
- The grate is at the same elevation as pipe invert.
- Pipes must be cut flush with inside walls

600 x 600 CB Shield (600mm Sump)

TOWN FILE NUMBER
DART RZ 204-0003

BENCH MARKS :
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY CONTROL NO. 00819758057 HAVING A PUBLISHED ELEVATION OF 251.929 METRES (CGVD28.78)

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 ANY DAMAGE TO THEM.



NO.	DATE	REVISION DESCRIPTION	CHKD
4.	02/04/2026	REVISED PER TOWN AND REGION COMMENTS	P.G.
3.	09/23/2024	REVISED PER TOWN AND REGION COMMENTS	P.G.
2.	01/30/2024	UPDATED PER REVISED SITE PLAN	P.G.
1.	01/04/2024	ISSUED FOR APPROVAL	P.G.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-4500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEERS PLANS. CHECK PLANS FOR PAVEMENT SUBBASE REQUIREMENTS.	N/A
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDEDMENT STONE (B LAYER) TO 2" (50mm) ABOVE THE TOP OF THE CHAMBERS. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <3% FINES OR PROCESSED AGGREGATE. OR MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M48* A1.1, A2.4, A3.3 OR AASHTO M43* 3, 3B7, 4, 4B7, 5, 5B, 5T, 6, 6T, 6B, 7, 7B, 8, 8B, 9, 10
B	EMBEDEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43* 3, 4
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43* 3, 4

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 1" (25mm) (MAX) LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTOR.
- WHERE INITIAL SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-19a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
- MC-4500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, AS THE ARCH STRENGTH CONSTRAINT AS DEFINED IN SECTION 8.3 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 900 LBS/INCH AND 10) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 77 ° F / 25 ° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORES.

DCB c/w CB Shields

This spacer bars are to keep two single units standing upright inside a double catchbasin.

GEI Consultants
GEI CONSULTANTS, CANADA, LTD.
330 TRILLIUM DRIVE
KITCHENER, ONTARIO N2E 3J2
519.748.1440

14 STATION ROAD
KING STATION FACILITY INC.

TOWN OF CALEDON

NOTES AND DETAILS PLAN

DRAWN BY :	APPROVED BY :	PROJECT NO. :	DRAWING NO. :
E.B.	P.G.	423091	4
DESIGNED BY :	DATE :	SCALE :	
P.G.	NOV 2023	AS NOTED	

FILE: H:\Projects\2024\2024-0003\2024-0003-01\Drawings\Storm\Storm Servicing\Storm Servicing.dwg
 PLOT DATE: 2024-11-14 10:59:59 AM
 PLOT BY: P.G.
 LAST SAVED BY: P.G.
 LAST SAVED DATE: 2024-11-14 10:59:59 AM

