

1. GENERAL NOTES

- 1.1 ALL SERVICES TO BE TO THE TOWN OF EAST GWILLIMBURY ENGINEERING DEPARTMENT STANDARDS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE TOWN ENGINEER.
- 1.2 LOCATIONS OF EXISTING SERVICES NOT GUARANTEED - CONTRACTOR TO NOTIFY UTILITY COMPANIES. FORTY- EIGHT (48) HOURS NOTICE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORK.
- 1.3 FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE STANDARD DRAWINGS WITHIN DETAIL DWG. DET1.
- 1.4 ALL WORKS MUST BE CARRIED OUT ACCORDING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT (APRIL 11, 2022 AMENDMENT), REGULATIONS FOR CONSTRUCTION PROJECTS AND ALL RELATED ONTARIO REGULATIONS APPLICABLE TO CONSTRUCTION ACTIVITY.
- 1.5 SEWER AND WATERMAIN TRENCHES TO BE BACKFILLED TO TOWN OF EAST GWILLIMBURY STANDARDS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- 1.6 ALL STANDARD DRAWINGS ARE TO BE OPSD (MOST RECENT REVISION) UNLESS OTHERWISE SPECIFIED.

2. MEASUREMENTS

- 2.1 ALL DIMENSIONS IN METRES, EXCEPT PIPE DIAMETER, WHICH IS IN MILLIMETRES, UNLESS OTHERWISE SPECIFIED.

3. ROADWORKS

- 3.1 COMPACTION - ROAD SUBGRADE TO BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY - GRANULAR MATERIALS TO BE SPREAD AND COMPACTED IN 200 MM LAYERS TO A MINIMUM OF 100% STANDARD PROCTOR DENSITY. ASPHALT TO BE COMPACTED TO MINIMUM 96% STANDARD PROCTOR DENSITY.

ITEM	COMPACTION REQUIRED (% OF STANDARD PROCTOR DENSITY)
GRANULAR "B"	MINIMUM 95%
GRANULAR "A"	MINIMUM 100%
HL-6 OR HL-8	MINIMUM 96%
HL-3	MINIMUM 90%

3.2 ROAD DESIGN - (MINIMUM)

ITEM	COMPACTED THICKNESS (RESIDENTIAL)
HL-3	40 mm
HL-6 OR HL-8	50 mm
GRANULAR "A"	150 mm
GRANULAR "B"	300 mm

NOTE: ASPHALT AND GRANULAR THICKNESS MAY VARY AS RECOMMENDED BY THE GEOTECHNICAL REPORT SUBJECT TO THE TOWN'S APPROVAL.

3.3 CURBS:

- URBAN - TOWN STANDARDS OPSD 600.040 (WHEN GRADE IS TOWARDS CURB)
URBAN - TOWN STANDARDS OPSD 600.110 (WHEN GRADE AWAY FROM CURB)

- 3.4 INTERSECTIONS OF CURBS AND SIDEWALKS SHALL BE DEPRESSED, AS PER STANDARD OPSD 310.030.

- 3.5 ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REINSTATED TO ORIGINAL CONDITION OR BETTER BY THE CONTRACTOR.

- 3.6 SUB-DRAINS ARE TO BE INSTALLED THROUGHOUT UNLESS OTHERWISE APPROVED.

- 3.7 NO MANHOLE COVERS WILL BE PERMITTED TO BE CONSTRUCTED IN ANY PART OF THE SIDEWALK.

- 3.8 ALL NEW SIGNS WILL BE **TYPE IV HIGH REFLECTIVITY** SIGNS, MADE OF STEEL AND WILL INCLUDE THE TOWN NAME AND YEAR OF MANUFACTURE ON THE BORDER OF THE SIGN. SIGN RETRO-REFLECTIVITY IS DETERMINED USING MUTCD TABLE 2A.3 (THE STANDARDS IN THE OTM REFER TO NEW SIGN RETRO-REFLECTIVITY).

4. STORM SEWERS

- 4.1 ALL CONCRETE PIPE SHALL HAVE SEALED JOINTS WITH GASKETS AND PIPE CLASS AS SHOWN ON DRAWINGS.
- 4.2 ALL PVC GRAVITY SEWER PIPE SHALL BE EQUAL TO CSA SPECIFICATION B182.1 OR B182.2 (OR MOST RECENT VERSION) SDR-35 WITH "LOCK-IN" RUBBER SEALING RING.
- 4.3 MANHOLES:
- 4.3.1 MANHOLES TO BE STANDARD DRAWINGS OPSD 701.010 TO 701.015 (INCLUSIVE).
- 4.3.2 ALL STORM MANHOLES TO BE BENCHED THROUGHOUT TO THE CROWN OF ALL PIPES ON A VERTICAL PROJECTION FROM SPRING LINE, AS PER STANDARD DRAWINGS, EXCEPT AS OTHERWISE NOTED.
- 4.4 SEWER BEDDING SHALL BE TO STANDARD DRAWING OPSD 802.030 CLASS "B" BEDDING OR AS APPROVED BY THE TOWN.
- 4.5 CATCHBASINS:
- 4.5.1 CATCHBASINS SHALL BE AS PER STANDARD DRAWINGS (OPSD).
- 4.5.2 LEADS FOR A SINGLE CATCHBASIN TO BE 250mm AND FOR A DOUBLE CATCHBASIN 300mm.
- 4.5.3 ALL CATCHBASINS TO BE CONNECTED TO THE STORM SEWER BY TEES WHERE POSSIBLE, STANDARD DRAWINGS OPSD 705.010 TO 705.040. ALL REAR LOT CATCHBASINS TO BE INSTALLED WITHOUT SUMP PIT OR ALTERNATIVELY, SUMP TO BE FILLED WITH CONCRETE TO OUTLET INVERT.
- 4.6 ALL STORM OUTFALLS THAT EMPTY INTO A DITCH OR WATERCOURSE MUST BLEND WITH THE FLOW OF SAME.
- 4.7 ALL PVC PIPE CONNECTIONS TO MANHOLES SHALL BE DONE BY MEANS OF A PVC MANHOLE ADAPTER.
- 4.8 SERVICE CONNECTION 150 mm PVC, C/W 150 X 125 SEALED CLEANOUT AT PROPERTY LINE. SERVICES SHALL BE EXTENDED 1.5 m INSIDE THE PROPERTY LINE AND PLUGGED. PIPE TO BE WHITE IN COLOUR. ALL SERVICES TO BE MARKED WITH 50 mm X 100 mm X 2.4 M STAKES, PAINTED WHITE FOR STORM.

5. WATERMAIN

- 5.1 WATERMAIN PIPE SHALL BE AWWA C900 (THICK WALL PIPE) MINIMUM CLASS 150 (OR 18). PIPE IS TO BE WRAPPED WITH STRAND 14-GAUGE COPPER WIRE AND WIRE IS TO BE BROWN TO GRADE AT MAINLINE VALVES AND HYDRANT SECONDARY VALVES, AND A HOLE DRILLED SIX INCHES (6") DOWN FROM UPPER SECTION AND WIRE INSERTED THROUGH THIS HOLE FOR PROTECTION. TOP OF WATERMAIN SHALL BE MINIMUM 1.7 M BELOW CENTRELINE OF ROAD GRADE. ALL SPLICES ARE TO BE DONE ABOVE GRADE OR USING A MOISTURE-PROOF SEAL.
- 5.2 HYDRANTS AND VALVES AS PER TOWN STANDARDS DRAWING NO. OPSD 1105.010. ALL HYDRANTS ARE TO BE SELF-DRAINING (UNLESS IN AREAS WITH HIGH WATER TABLE). ALL HYDRANTS ARE TO BE EQUIPPED WITH ONE (1) FOUR-INCH (4") PUMPER PORT WITH MANUFACTURER'S "STORTZ" FITTING. TOWN-APPROVED HYDRANTS ARE CANADA VALVE (CANVAL) - **ONLY**.
- 5.3 ALL CONNECTIONS TO BE MARKED WITH 50 mm X 100 mm X 2.4 m STAKES, PAINTED BLUE FOR WATER.
- 5.4 ALL BENDS AND TEES MUST BE OPSD 1103.010 AND 1103.020 AND BLOCKED TO UNDISTURBED GROUND. MECHANICAL RESTRAINING JOINTS ARE PERMITTED WHERE APPROVED BY THE TOWN.
- 5.5 WHERE THE TOWN APPROVES WATERMAIN CONSTRUCTION WITH LESS THAN THE ABOVE NOTED MINIMUM COVER, THE WATERMAIN SHALL BE INSULATED TO THE TOWN'S SATISFACTION.
- 5.6 ALL MECHANICAL CONNECTIONS TO BE PROTECTED AGAINST CORROSION THROUGH THE USE OF CORROSION PROTECTION DURING NUTS. NUTS TO BE USED ON 50% OF ALL T-BOLTS PER CONNECTION AND ARE TO BE USED IN ADDITION TO STANDARD FASTENING NUTS, **NOT** IN PLACE OF STANDARD NUTS.

6. WATERMAIN - FILL AREAS

- 6.1 PIPES ARE NOT TO BE LAID ON FILL UNTIL THE FIELD DENSITY TEST REPORTS HAVE BEEN SUBMITTED AND APPROVED BY THE ENGINEER.
- 6.2 FILL TO BE PLACED TO A MINIMUM OF 600 mm ABOVE THE WATERMAIN GRADES AND TO 3.0M MINIMUM ON EACH SIDE PRIOR TO WATERMAIN LAYING COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR DENSITY IN 300 mm LIFTS.
- 6.3 WATERMAIN WITHIN FILL AREAS TO BE CONSTRUCTED WITH MECHANICALLY RESTRAINED JOINTS
- 6.4 TESTS SHALL BE TAKEN ALONG CENTRELINE OF THE WATERMAIN AND ON LINES 1.50 mm ON EITHER SIDE OF SAME AT A MAXIMUM INTERVAL OF 30.0 m. TESTS TO BE TAKEN AT EACH 600 mm LIFT.
- 6.5 ALL HYDRANTS, TEES, VALVES, BENDS, PLUGS AND EACH PIPE JOINT ARE TO BE MECHANICALLY RESTRAINED.
- 6.6 PIPE JOINT DEFLECTIONS ARE NOT ALLOWED.

7. SANITARY SEWERS

7.1 PIPE:

- 7.1.1 ALL PVC GRAVITY SEWER PIPE SHALL BE EQUAL TO CSA SPECIFICATION B182.1 OR B182.2 (OR MOST RECENT VERSION) SDR-35 WITH "LOCK-IN" RUBBER SEALING RING.
- 7.1.2 ALL SEWER CONNECTIONS TO MANHOLES SHALL BE DONE BY MEANS OF A PVC MANHOLE (KOR-N-SEAL) ADAPTER.
- 7.1.3 THE BEDDING MATERIAL SHALL EXTEND TO 300 mm ABOVE THE PIPE AND COMPACTION TESTS ARE REQUIRED BEFORE THE TRENCH IS BACKFILLED. BACKFILL TO BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY.
- 7.1.4 ALL SANITARY SEWERS ARE TO BE WATER TIGHT. MEL-ROLL WATERPROOFING MEMBRANE TO BE USED AT JOINTS PER REGIONAL MUNICIPALITY OF YORK SDIP PROGRAM.

7.2 MANHOLES:

- 7.2.1 MANHOLES TO BE STANDARD DRAWINGS OPSD 701.010 TO 701.013 (INCLUSIVE).
- 7.2.2 ALL SANITARY MANHOLES SHALL BE BENCHED THROUGHOUT TO THE SPRING LINE, AS PER STANDARD DRAWINGS, EXCEPT AS OTHERWISE NOTED.
- 7.2.3 ALL SANITARY MANHOLES SHALL HAVE MONOLITHIC PRE-BENCHED BASES WITH PRE-MANUFACTURED CONNECTIONS.
- 7.2.4 ALL SANITARY MANHOLES CONSTRUCTED IN THE VICINITY OF LOW POINTS OR OUTSIDE OF THE PAVED ROADWAY SHALL HAVE WATERTIGHT COVERS.
- 7.2.5 ALL SANITARY MANHOLES ARE TO BE WATER TIGHT. MEL-ROLL WATERPROOFING MEMBRANE TO BE USED AT JOINTS PER REGIONAL MUNICIPALITY OF YORK SDIP PROGRAM.

- 7.3 BEDDING - SEWER BEDDING TO BE TO STANDARD DRAWING OPSD 802.030, CLASS "B" (UNLESS OTHERWISE NOTED AND APPROVED).

- 7.4 ALL LATERALS SHALL BE CONSTRUCTED ACCORDING TO STANDARD DRAWINGS OPSD 1006.010 AND 1006.020.

8. SURVEY INFORMATION

TOPOGRAPHIC INFORMATION PER J.D.BARNES LTD., DATED SEPTEMBER 28, 2020. ELEVATIONS SHOWN ON ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM BENCHMARK NO. 848150 HAVING A PUBLISHED ELEVATION OF 251.574 METRES.

9. YORK REGION DESIGN GUIDELINES NOTES

- 9.1 ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS AND THE APPLICABLE REQUIREMENTS OF THE OPSS, OPSD AND REGIONAL MUNICIPALITY OF YORK CONTRACT SPECIFICATIONS AS TENDERED.
- 9.2 CONTRACTOR TO SCHEDULE AND IN-FIELD PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE REGIONAL STAFF, DESIGN ENGINEER, REGIONAL CONTRACT ADMINISTRATOR, AND AFFECTED UTILITY REPRESENTATIVES BEFORE COMMENCING WORK.

10.PAVEMENT DETAIL NOTES

- 10.1 STATIONING IS BASED UPON THE CENTRELINE OF CONSTRUCTION, UNLESS OTHERWISE SPECIFIED.
- 10.2 ADJUST ALL MAINTENANCE HOLES, CATCH BASINS, VALVE BOXES, VALVE CHAMBERS AND OTHER AT GRADE MUNICIPAL SERVICES TO THE FINAL AND FINISHED ROAD, BOULEVARD OR PROPOSED SLOPE GRADE.
- 10.3 THE YORK REGION CONTRACT ADMINISTRATOR SHALL DETERMINE EXACT LIMITS OF ASPHALT RESURFACING.
- 10.4 SAW CUT STRAIGHT MATCH LINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT AS PER OPSS 310.
- 10.5 ASPHALT PAVEMENT WITHIN REGIONAL RIGHT-OF-WAY TO BE CONSTRUCTED AS FOLLOWS:
- 50mm SP 12.5 TOP ASPHALT
 - 100mm SP 19.0 BASE ASPHALT
 - 150mm GRANULAR A
 - 450mm GRANULAR B

11.CURB, SIDEWALK AND ENTRANCE NOTES

- 11.1 NO DROPPED CURB SECTIONS FOR FUTURE ENTRANCES ARE ALLOWED.
- 11.2 FULL HEIGHT CURBS WILL BE CONSTRUCTED ON THE ENTIRE PROJECT UNLESS A NEW ENTRANCE IS TO BE CONSTRUCTED AT THE SAME TIME AS THE CURBS ARE PLACED.
- 11.3 LOT ACCESS WILL BE ALLOWED VIA WRITTEN APPROVAL FROM THE ROADS AND TRAFFIC OPERATIONS BRANCH.
- 11.4 CONSTRUCT CONCRETE SIDEWALKS AS PER OPSD 310 SERIES DRAWINGS AND THE LOCAL MUNICIPAL STANDARDS.
- 11.5 CONSTRUCT CURB AND CURB TERMINATIONS AS PER OPSD 608.010 AND / OR 304.010, WHERE APPLICABLE.
- 11.6 CONSTRUCT RESIDENTIAL ENTRANCES PER YORK REGION STANDARD DRAWING DS-215.

12.TREE PROTECTION NOTES

- 12.1 DEVELOP SPECIFICATIONS WITH THE ASSISTANCE OF THE REGIONAL FORESTER.
- 12.2 CONTACT THE YORK REGION NATURAL HERITAGE AND FORESTRY GROUP AT 1-877-464-9675 PRIOR TO ANY EXCAVATION ADJACENT TO TREES.
- 12.3 A TREE INSPECTION MUST BE MADE BEFORE CUTTING ANY ROOTS.
- 12.4 CLEARLY MARK WITH SURVEY TAPE THE CLEARING LIMITS OF THE CONSTRUCTION SITE SHOWN ON THIS PLAN PRIOR TO BEGINNING EARTHWORK.
- 12.5 DURING CONSTRUCTION, MAINTAIN THE MARKED CLEARING LIMITS AND DO NOT DISTURB THE AREAS OUTSIDE THE CONSTRUCTION SITE. OFTEN TREE PROTECTION FENCING IS NECESSARY.
- 12.6 TREE PROTECTION BARRIERS SHALL BE USED IN HIGHLY SENSITIVE AREAS OR AS REQUESTED FROM THE NATURAL HERITAGE AND FORESTRY GROUP.

13.EROSION CONTROL NOTES

- 13.1 ALL EROSION CONTROL TO BE INSTALLED AS PER THE TOWN OF EAST GWILLIMBURY ENHANCED EROSION AND SEDIMENT CONTROL REQUIREMENTS AND LSRCA GUIDELINES.
- 13.2 ALL STORM AND CULVERT INLETS AND OR OUTLETS TO USE RIP-RAP AS PER OPSD 810 SERIES STANDARDS.
- 13.3 EROSION AND SEDIMENTATION CONTROL IS REQUIRED. IMPLEMENTATION OF THIS CONTROL DURING CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
- 13.4 THE EROSION AND SEDIMENTATION CONTROLS AS DETAILED IN THIS DOCUMENT ARE MINIMUM REQUIREMENTS.
- 13.5 ADDITIONAL CONTROLS MAY REQUIRE INSTALLATION, INSPECTION AND DAILY UPGRADES TO ENSURE APPROPRIATE PROTECTION AS APPROVED BY THE CONSERVATION AUTHORITY.

14.SUBDRAIN NOTES

- 14.1 ALL SUB DRAIN TO BE PERFORATED 150mm DIAMETER RIGID PLASTIC AND WRAPPED WITH GEO-TEXTILE AND SHALL FOLLOW PROPOSED CURB GRADES UNLESS OTHERWISE INDICATED.

LIST OF DRAWINGS

- NT1 - GENERAL NOTES
ESC1 - EROSION & SEDIMENT CONTROL / CONSTRUCTION MANAGEMENT PLAN
ESC2 - EROSION & SEDIMENT CONTROL / CONSTRUCTION MANAGEMENT PLAN NOTES & DETAILS
SS1 - SITE SERVICING PLAN
SEC1 - SERVICING-CROSS SECTIONS
CR1 - CROSSINGS
SG1 - SITE GRADING PLAN
CS1 - HIGHWAY 11 - CROSS-SECTIONS
CS2 - HIGHWAY 11 - CROSS-SECTIONS
DET1 - DETAILS

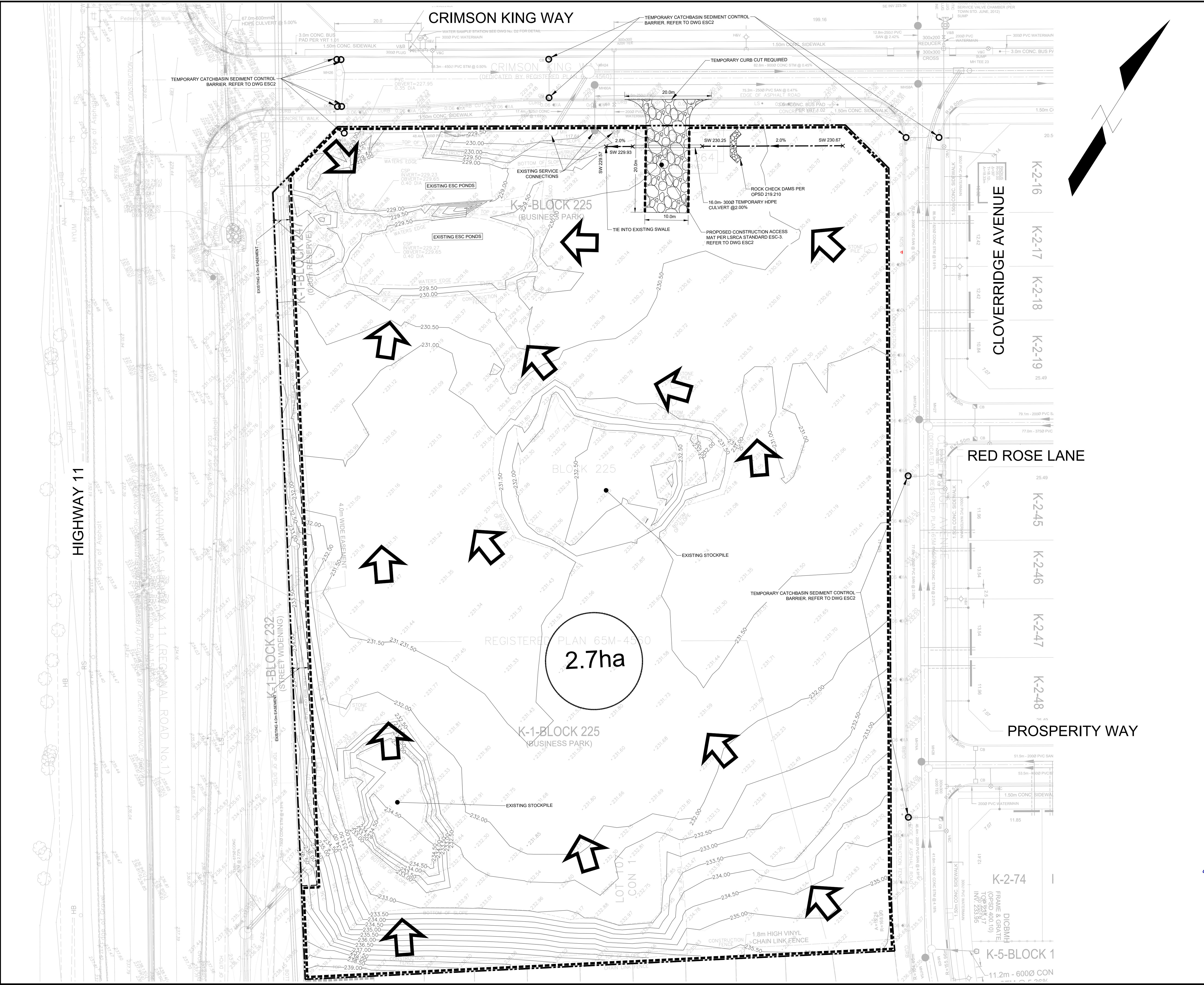


KEY PLAN

NTS

1	ISSUED FOR 1ST ZBA SUBMISSION	M.E.O	2025-04-11	M.E.O
No.	REVISIONS TO DRAWING	BY	DATE	APPR.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED				
CLIENT				
KERBEL GROUP INC.				
MUNICIPALITY				
PROJECT TITLE				
WEST HOLLAND LANDING SOUTH RETAIL BLOCK				
SHEET TITLE				
GENERAL NOTES				
CONSULTANT				
150 Commerce Valley Dr. West, Thornhill, ON Canada L3T 7Z3 t: 905.882.1100 f: 905.882.0055 www.wsp.com				
STAMP		APPROVAL		
DESIGNED	A.S / S.V.S	DRAWN	10/12 CAD	CHECKED
SCALE	N.T.S.	DATE	APRIL 2025	
PROJECT NUMBER		DWG. NUMBER		
CA0042438.4289		NT1		

FILENAME: C:\Users\CA\OneDrive\Documents\WSP\Canada projects\AMERU\LINE ON 24P\Kerbel\CA0042438.4289 V14.dwg, Rural Block\Engineering\Drawings\CA0042438.4289 ESC.dwg
PLOT DATE: Apr 11, 2025 - 11:23am, CA0042438.4289

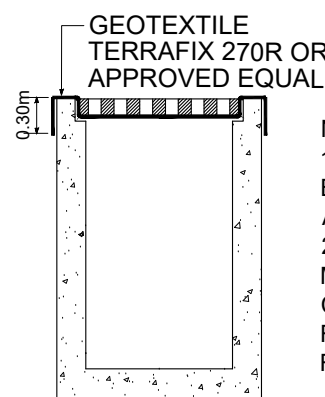


KEY PLAN NTS

- LEGEND**
- EX. ELEVATION
 - PROP. ELEVATION
 - EX. CONTOUR
 - EX. LIMIT OF PROPERTY
 - SILTATION CONTROL FENCE (PER LSRCA ESC-4)
 - CATCHBASIN SEDIMENT CONTROL BARRIER (PER DETAIL ON ESC2)
 - PROP. CONSTRUCTION ACCESS MAT (PER LSRCA ESC-3)
 - OVERLAND FLOW DIRECTION
 - ROCK CHECK DAM (PER OPSPD 219.210)
 - PROP. ESC SWALE
 - TEMPORARY HICKENBOTTOM DRAIN
 - CATCHMENT AREA

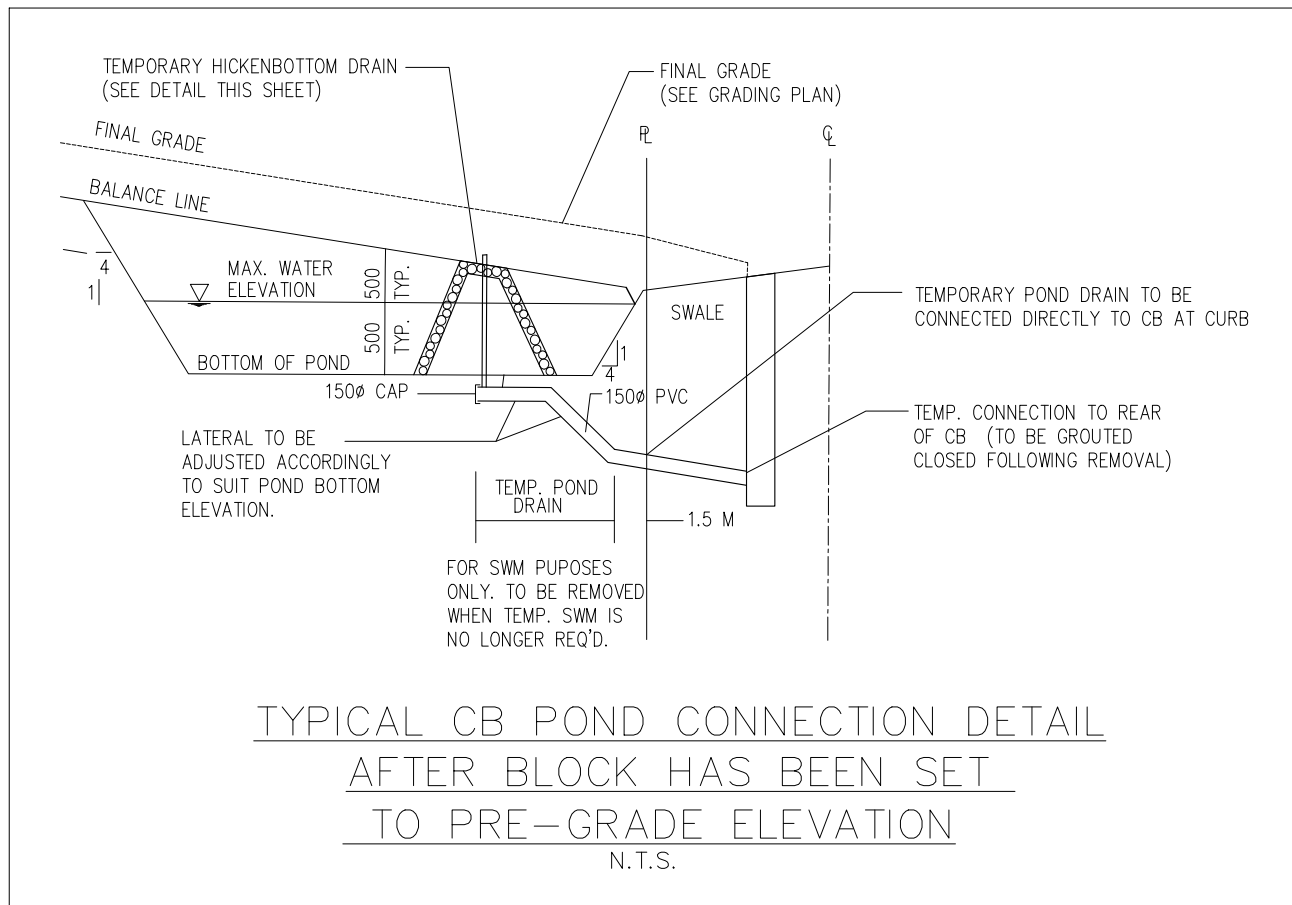
EROSION & SEDIMENT CONTROL NOTES:

1. ALL SEDIMENT CONTROL MEASURES SUCH AS SEDIMENT CONTROL FENCE, TEMPORARY PONDS, CONSTRUCTION ACCESS MATS, SWALES, SILTATION CONTROL DEVICES AND ROCK CHECK DAMS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF THE SITE WORKS.
2. SEDIMENT CONTROLS SHOULD BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY SIGNIFICANT RAINFALL EVENT. REPAIRS TO ESC MEASURES MUST BE COMPLETED IN A TIMELY MANNER TO PREVENT SEDIMENT MIGRATION.
3. ADDITIONAL MATERIALS SUCH AS CLEAR STONE, FILTER FABRIC, PUMPS, HOSES AND SILT/SOXX, ETC. TO BE KEPT ONSITE AT ALL TIMES FOR CONSTRUCTION REPAIRS TO SEDIMENT CONTROL MEASURES.
4. ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN THIRTY DAYS ARE TO BE STABILIZED.
5. ENGINEERED CHANGES TO THE ESC MEASURES MAY BE NEEDED AS SITE CONDITIONS CHANGE THROUGHOUT THE CONSTRUCTION PROCESS.
6. THE CONSTRUCTION ENTRANCE MAT IS TO BE INSTALLED AS THE FIRST STEP IN THE SITE ALTERATION PROCESS.
7. CUT-OFF SWALES OR DITCHES ARE TO BE INSTALLED AS SHOWN ON THE ESC PLANS AND AS NECESSARY BASED ON CHANGING SITE CONDITIONS TO DIRECT OVERLAND FLOW TO THE TEMPORARY SEDIMENT POND.
8. TEMPORARY SEDIMENT POND TO BE CONSTRUCTED AT THE BEGINNING OF SITE GRADING.
9. THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEAN-UP AND RESTORATION, INCLUDING ALL COSTS, DUE TO RELEASE OF SEDIMENT FROM THE SITE.
10. ADDITIONAL SEDIMENT CONTROL DEVICES MAY BE DEEMED NECESSARY AND SHALL BE INSTALLED AS DIRECTED BY THE SITE ENGINEER, CONTRACT ADMINISTRATOR OR LOCAL MUNICIPALITY.
11. SILT FENCE TO BE INSTALLED ON PROPERTY LINE. SILT FENCE IS SHOWN OFFSET FROM THE PROPERTY LINE FOR DRAWING CLARITY PURPOSES ONLY.
12. LOCATIONS OF TEMPORARY SWALES SHOWN ON THIS DRAWING ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LOCATION IS TO HAVE THE TOE OF SLOPE AS CLOSE TO THE SILTATION CONTROL FENCE AS POSSIBLE DURING CONSTRUCTION.
13. ALL TREES OUTSIDE OF LIMIT TO BE PRESERVED. LIMBS, TRUNKS AND ROOTS TO BE PROTECTED AT ALL TIMES FROM CONSTRUCTION ACTIVITIES.
14. CONSTRUCTION ENTRANCE SIGNS TO BE PLACED AT ENTRANCE AND MUST REMAIN VISIBLE THROUGHOUT THE DURATION OF CONSTRUCTION.
15. MAINTENANCE SCHEDULE AS PER MECP STANDARDS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL SURROUNDING SILT-SACK CATCHBASIN SEDIMENT CONTROL DEVICES PRIOR TO THE COMMENCEMENT OF WORK.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR REGULARLY INSPECTING AND MAINTAINING CATCHBASIN SILTATION CONTROL DEVICES IN GOOD WORKING ORDER AT ALL TIMES TO THE SATISFACTION OF THE TOWN OF EAST GWILLIMBURY. CONTRACTOR SHALL INSPECT SUCH DEVICES AT LEAST ONCE PER WEEK AND AFTER EACH RAINFALL EVENT OF 10mm OR GREATER, AND MAKE ALL NECESSARY REPAIRS AS REQUIRED.
18. STORMWATER MANAGEMENT TEMPORARY BASIN SHOULD BE INSPECTED REGULARLY AFTER THE ANNUAL SNOW MELT, AT THE END OF WINTER, AND FOLLOWING MAJOR RAIN EVENTS.
19. ALL CONSTRUCTION VEHICLES TO ENTER AND LEAVE THE SITE AT APPROVED LOCATIONS ONLY.
20. CONCRETE WASHOUT LOCATION TO BE PLACED AS DIRECTED BY THE CONTRACTOR.

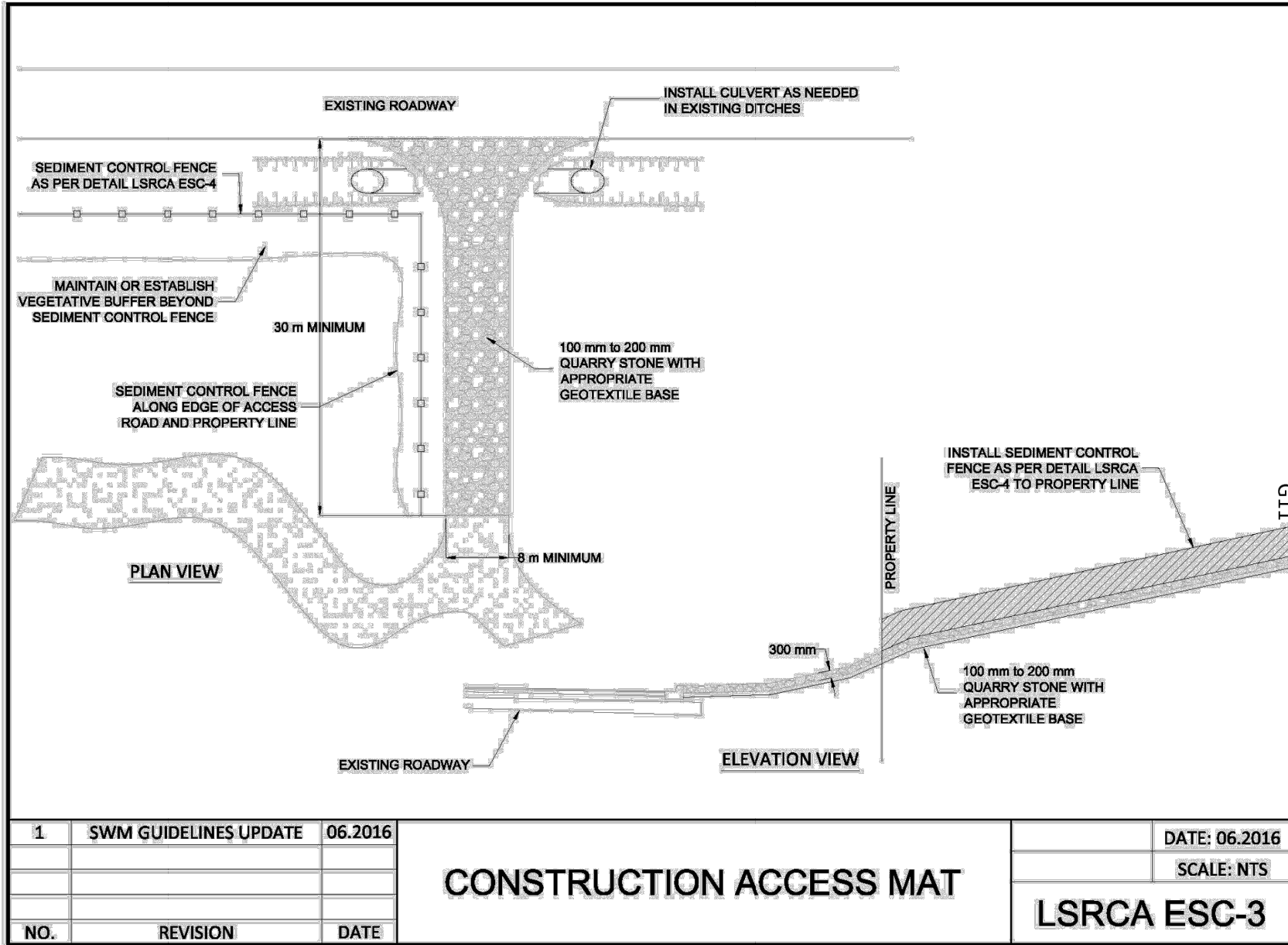


- NOTES:
1. CATCHBASIN SEDIMENT CONTROL DEVICES TO BE INSTALLED IMMEDIATELY AFTER BASE ASPHALT.
 2. INSPECTION OF SEDIMENT CONTROL MEASURES FOR ROAD CATCHBASINS SHALL BE CARRIED OUT IMMEDIATELY AFTER HEAVY RAINFALL AND DAILY DURING PROLONGED RAINFALL EVENTS.

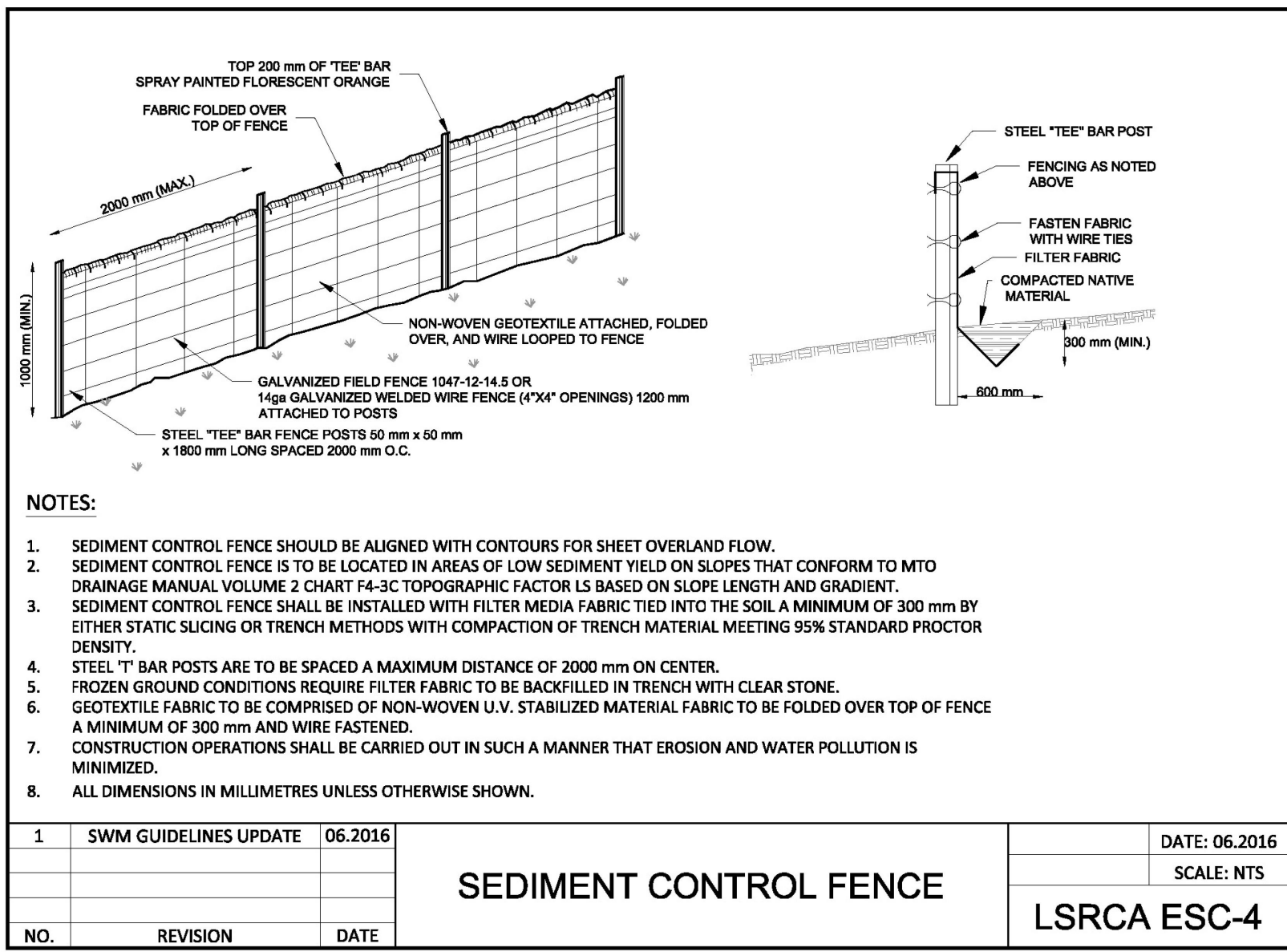
TEMP. SILTATION CONTROL DEVICE (CATCHBASINS)
N.T.S.



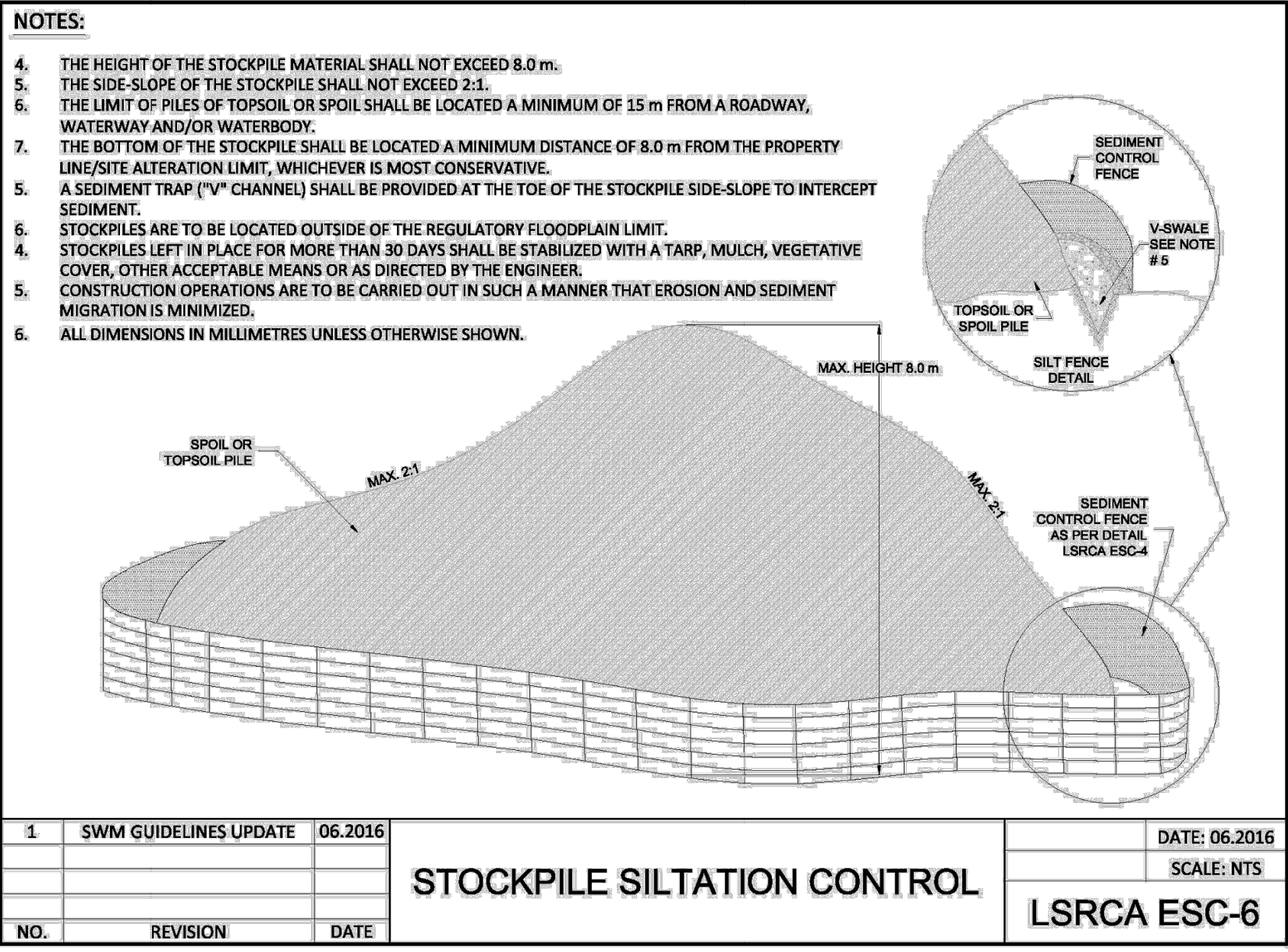
TYPICAL CB POND CONNECTION DETAIL
AFTER BLOCK HAS BEEN SET
TO PRE-GRADE ELEVATION
N.T.S.



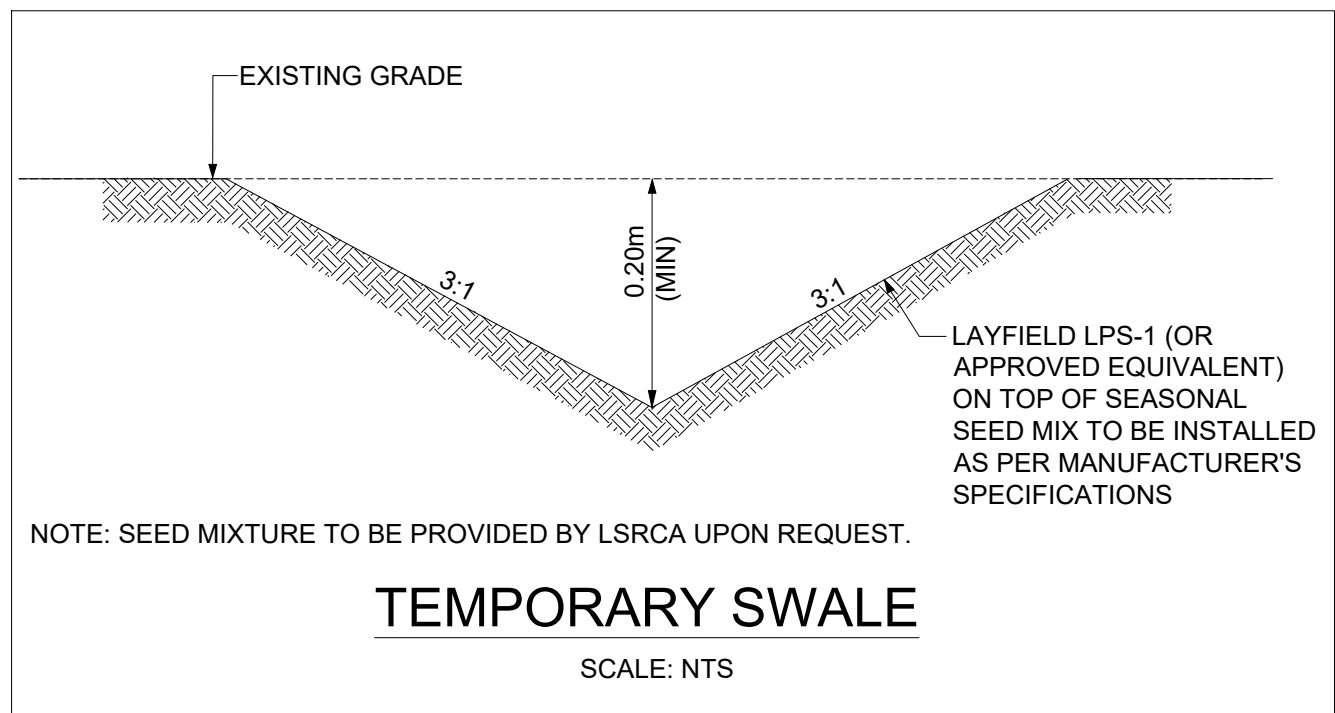
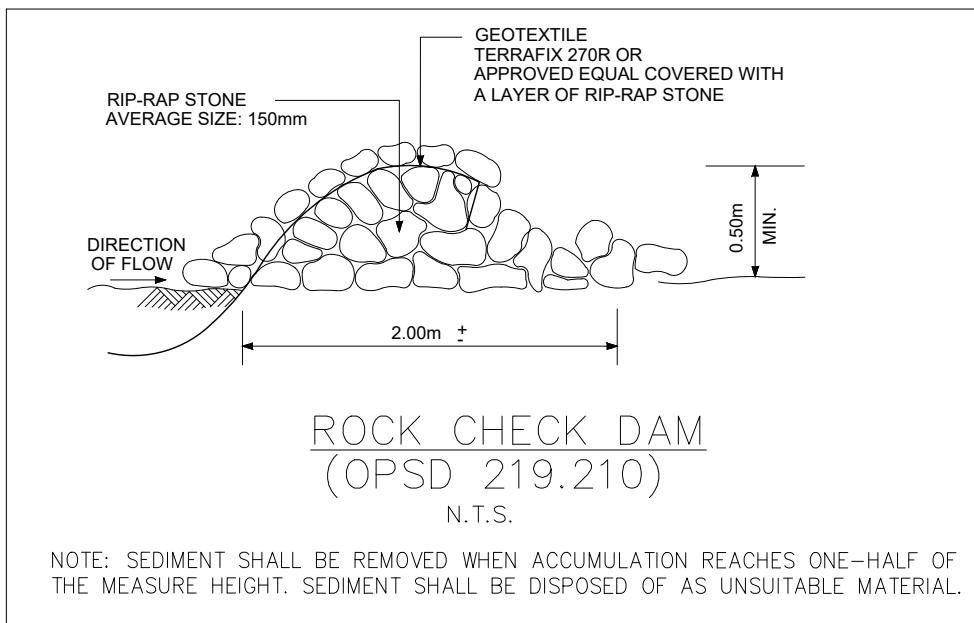
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CONSTRUCTION ACCESS MAT
DATE: 06.2016
SCALE: NTS
LSRCA ESC-3



1 SWM GUIDELINES UPDATE 06.2016
SEDIMENT CONTROL FENCE
DATE: 06.2016
SCALE: NTS
LSRCA ESC-4



1 SWM GUIDELINES UPDATE 06.2016
STOCKPILE SILTATION CONTROL
DATE: 06.2016
SCALE: NTS
LSRCA ESC-6



KEY PLAN NTS

1	ISSUED FOR 1ST ZBA SUBMISSION	M.E.O	2025-04-11	M.E.O
No.	REVISIONS TO DRAWING	BY	DATE	APPR.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED				
CLIENT				
KERBEL GROUP INC.				
MUNICIPALITY				
PROJECT TITLE				
WEST HOLLAND LANDING SOUTH RETAIL BLOCK				
SHEET TITLE				
EROSION & SEDIMENT CONTROL / CONSTRUCTION MANAGEMENT DETAILS				
CONSULTANT				
150 Commerce Valley Dr. West, Thornhill, ON Canada L3T 7Z3 T: 905.882.1100 F: 905.882.0055 www.wsp.com				
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SCALE		DATE		
N.T.S.		APRIL 2025		
PROJECT NUMBER		DWG. NUMBER		
CA0042438.4289		ESC2		

FILENAME: C:\Users\CA\OneDrive\Documents\WSP\Canada Projects\AMER\HOLLAND LANDING\CA0042438.4289 V14.dwg, Initial Board Meeting Engineering Drawing CA0042438.4289 V14.dwg
PLOT DATE: Apr 11, 2025 - 5:10pm CA#09037

CRIMSON KING WAY

REFER TO DWG SEC1
FOR SERVICING
CROSS SECTIONS

RED ROSE LANE

CLOVERIDGE AVENUE

PROSPERITY WAY



KEY PLAN
LEGEND

NTS

- PROPERTY LINE
- PROPOSED CONCRETE STORM SEWER
- PROPOSED PVC STORM SEWER
- PROPOSED PVC SANITARY SEWER
- PROPOSED FIRE LINE
- PROPOSED DOMESTIC LINE
- PROPOSED FIRE LINE WITH VERTICAL BENDS
- PROPOSED DOMESTIC LINE WITH VERTICAL BENDS
- CW PIPE INSULATION
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY MANHOLE
- PROP. CATCHBASIN / CATCHBASIN MANHOLE WITH SUBDRAIN
- PROP. DOUBLE CATCHBASIN / DOUBLE CATCHBASIN MANHOLE WITH SUBDRAIN
- PROPOSED DEPRESSED CURB
- PROPOSED RETAINING WALL
- MAX 3:1 SLOPE
- BUILDING ENTRANCES

1	ISSUED FOR 1ST ZBA SUBMISSION	M.E.O	2025-04-11	M.E.O
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CLIENT				
KARBEL GROUP INC.				

MUNICIPALITY				
East Gwillimbury				

PROJECT TITLE				
WEST HOLLAND LANDING SOUTH RETAIL BLOCK				

SHEET TITLE				
SITE SERVICING PLAN				

CONSULTANT				
wsp				

STAMP				
APPROVAL				

DESIGNED				
A.S / S.V.S				

DRAWN				
10/12 CAD				

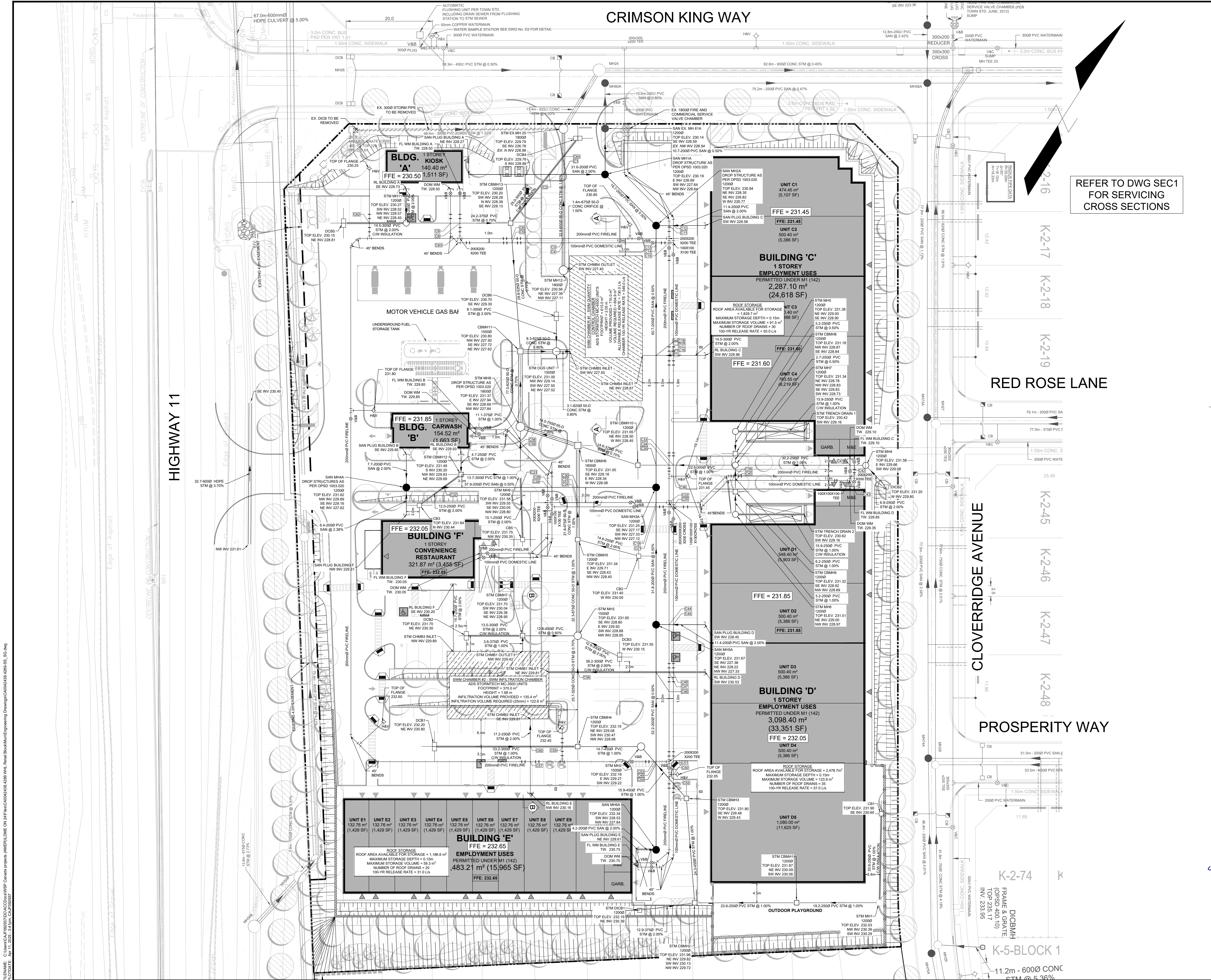
CHECKED				
M.E.O.				

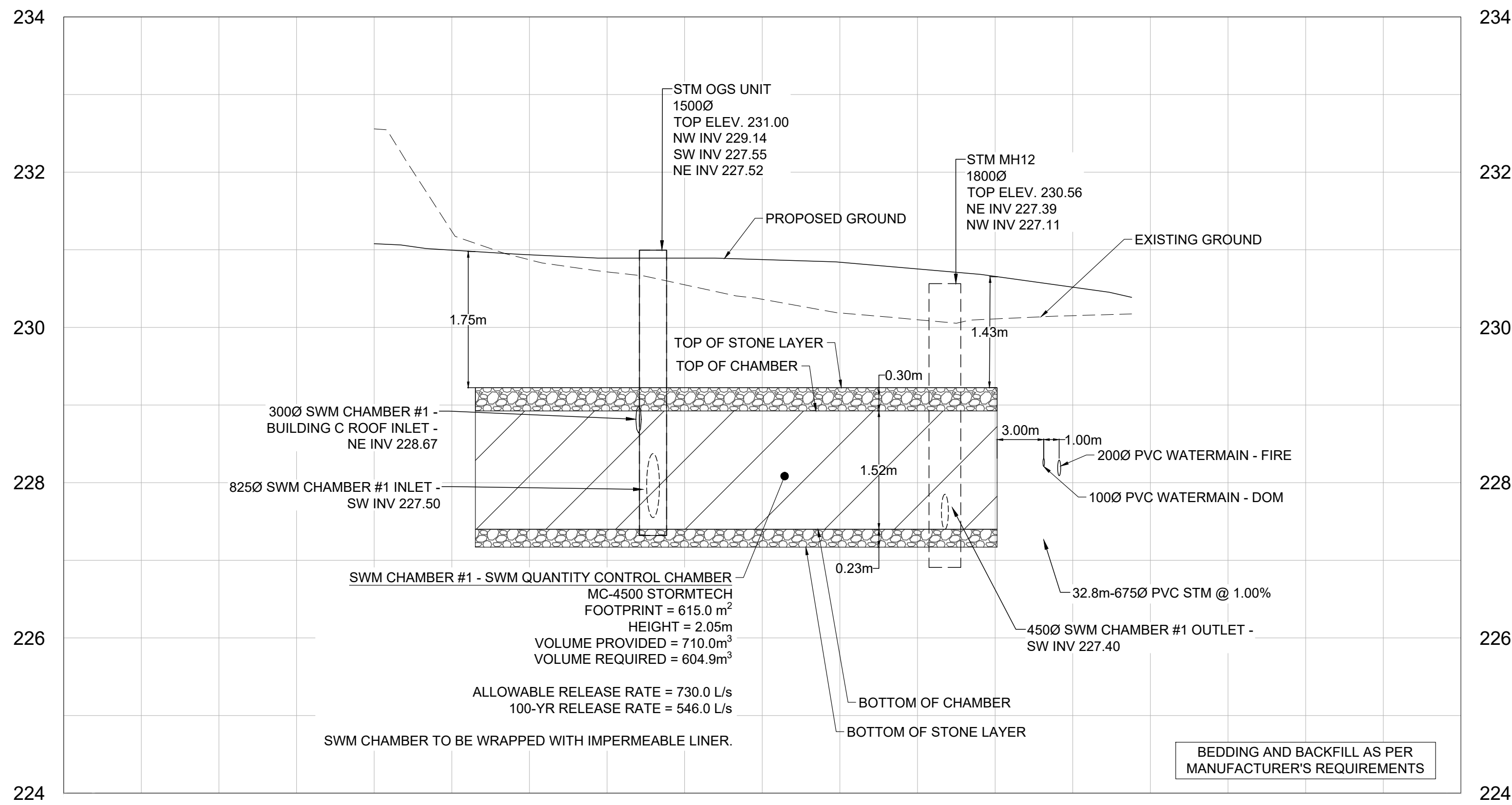
SCALE				
1:400				

DATE				
APRIL 2025				

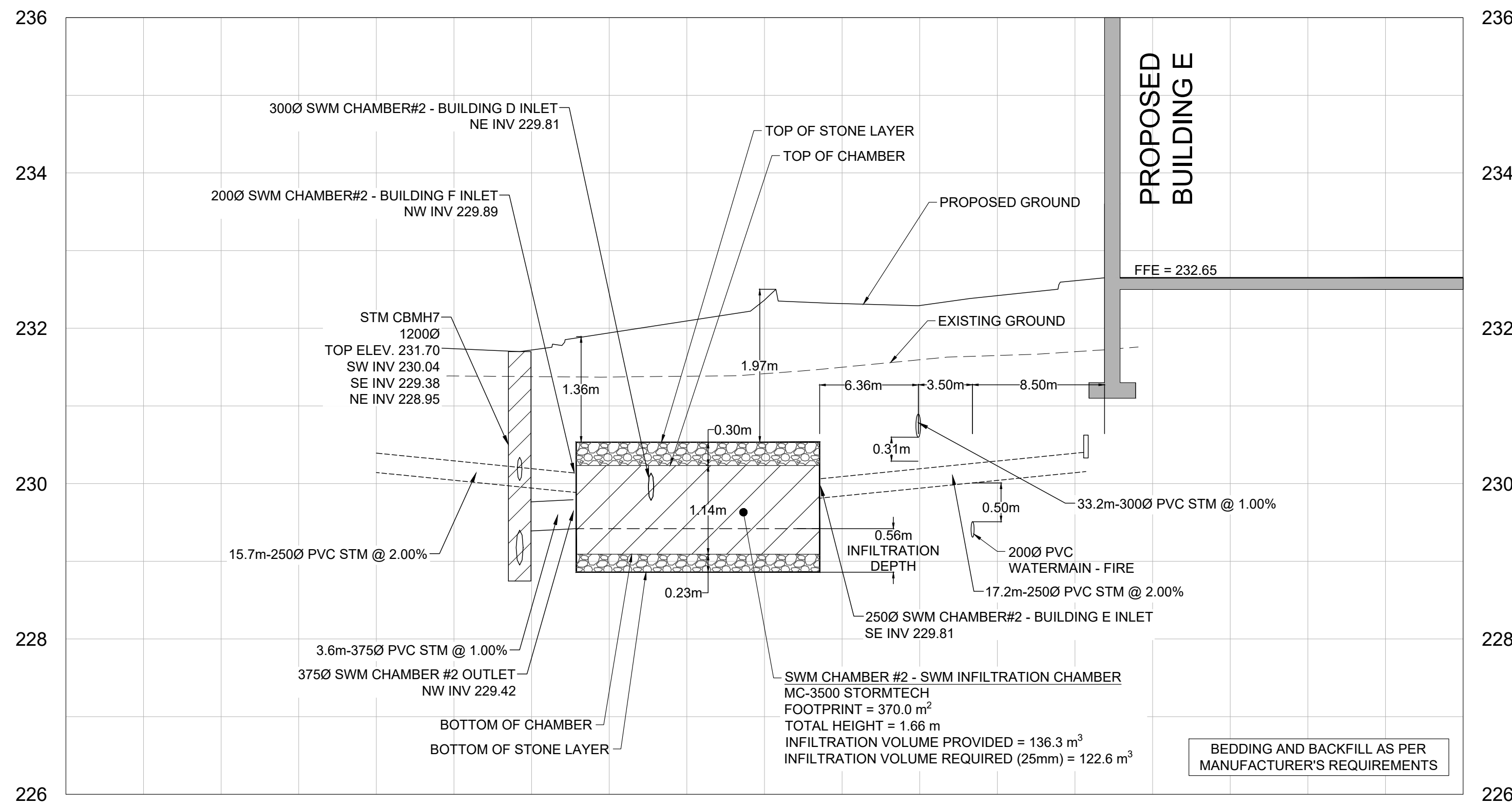
PROJECT NUMBER				
CA0042438.4289				

DWG. NUMBER				
SS1				





SECTION A-A
SWM CHAMBER #1 - SWM QUANTITY CONTROL CHAMBER
SCALE H-1:250 V-1:50

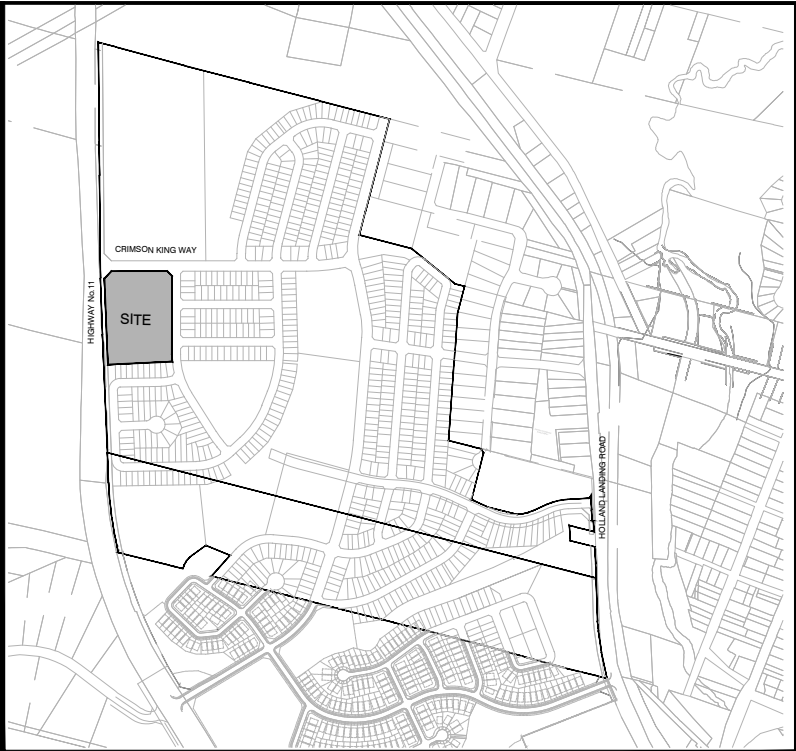


SECTION B-B
SWM CHAMBER #2 - SWM INFILTRATION CHAMBER
SCALE H-1:250 V-1:50



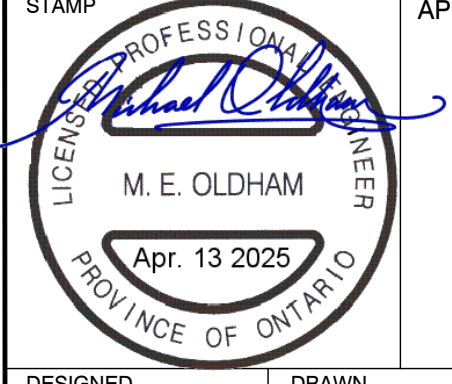
KEY PLAN NTS

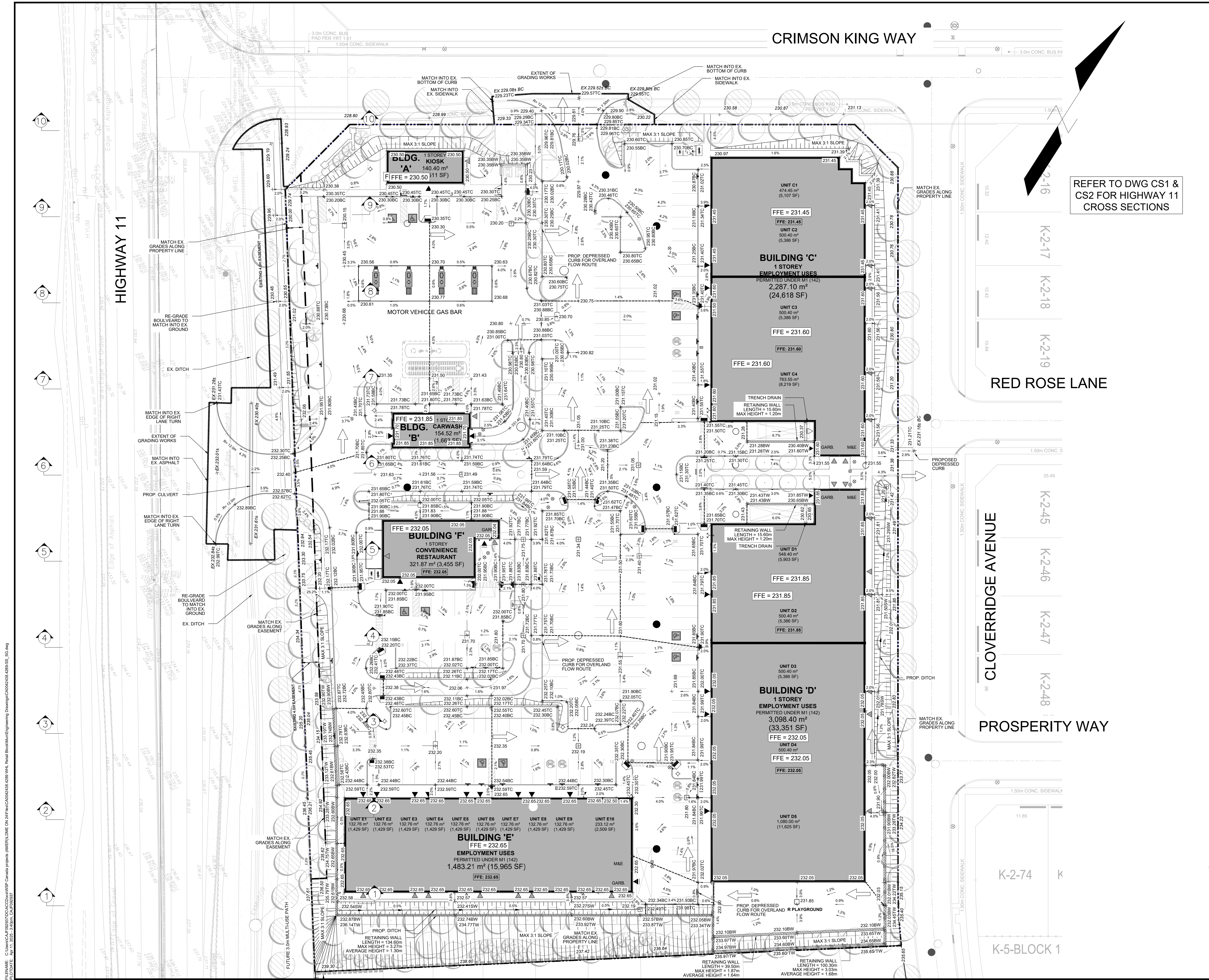
1	ISSUED FOR 1ST ZBA SUBMISSION	M.E.O	2025-04-11	M.E.O
No.	REVISIONS TO DRAWING	BY	DATE	APPR.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED				
CLIENT				
KERBEL GROUP INC.				
MUNICIPALITY				
East Gwillimbury				
PROJECT TITLE				
WEST HOLLAND LANDING SOUTH RETAIL BLOCK				
SHEET TITLE				
SERVICING CROSS-SECTIONS				
CONSULTANT				
wsp				
150 Commerce Valley Dr. West, Thornhill, ON Canada L3T 7Z3 T: 905.882.1100 F: 905.882.0055 www.wsp.com				
STAMP		APPROVAL		
DESIGNED A.S / S.V.S		DRAWN 10/12 CAD		CHECKED M.E.O.
SCALE AS NOTED		DATE APRIL 2025		
PROJECT NUMBER CA0042438.4289		DWG. NUMBER SEC1		



KEY PLAN NTS

CROSSING #1		CROSSING #2		CROSSING #3		CROSSING #4		CROSSING #5		CROSSING #6		CROSSING #8		CROSSING #9		CROSSING #11		CROSSING #12	
SAN INV.	227.83	STM INV.	228.68	FIRE WM INV.	228.46	DOM WM INV.	228.59	STM INV.	228.09	STM INV.	228.10	STM INV.	228.74	STM INV.	228.75	FIRE WM INV.	229.11	DOM WM INV.	229.24
STM OBV.	227.49	SAN OBV.	228.10	STM OBV.	227.64	STM OBV.	227.65	DOM WM OBV.	227.59	FIRE WM OBV.	227.60	DOM WM OBV.	228.24	FIRE WM OBV.	228.25	SAN OBV.	228.61	SAN OBV.	228.63
CLEARANCE	0.34	CLEARANCE	0.58	CLEARANCE	0.82	CLEARANCE	0.94	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.61
CROSSING #13		CROSSING #14		CROSSING #15		CROSSING #16		CROSSING #17		CROSSING #18		CROSSING #19		CROSSING #20		CROSSING #21		CROSSING #22	
FIRE WM INV.	229.03	DOM WM INV.	228.44	FIRE WM INV.	229.13	STM INV.	228.81	STM INV.	228.79	STM INV.	228.73	FIRE WM INV.	229.46	FIRE WM INV.	229.50	DOM WM INV.	229.59	FIRE WM INV.	229.46
SAN OBV.	227.04	SAN OBV.	227.04	DOM WM OBV.	228.63	DOM WM OBV.	228.31	FIRE WM OBV.	228.29	SAN OBV.	227.17	SAN OBV.	227.39	DOM WM OBV.	229.00	SAN OBV.	227.39	DOM WM OBV.	228.96
CLEARANCE	2.00	CLEARANCE	1.40	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	1.56	CLEARANCE	2.07	CLEARANCE	0.50	CLEARANCE	2.20	CLEARANCE	0.50
CROSSING #23		CROSSING #24		CROSSING #28		CROSSING #29		CROSSING #30		CROSSING #31		CROSSING #32		CROSSING #33		CROSSING #34		CROSSING #35	
FIRE WM INV.	229.57	DOM WM INV.	229.69	DOM WM INV.	229.74	FIRE WM INV.	229.69	STM INV.	228.28	STM INV.	229.76	STM INV.	230.30	STM INV.	228.58	STM INV.	228.57	STM INV.	228.08
STM OBV.	228.99	STM OBV.	229.00	SAN OBV.	227.65	SAN OBV.	227.66	SAN OBV.	227.62	SAN OBV.	227.69	SAN OBV.	227.82	DOM WM OBV.	228.08	FIRE WM OBV.	228.07	SAN OBV.	227.29
CLEARANCE	0.58	CLEARANCE	0.68	CLEARANCE	2.09	CLEARANCE	2.03	CLEARANCE	0.66	CLEARANCE	2.07	CLEARANCE	2.48	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.78
CROSSING #36		CROSSING #39		CROSSING #40		CROSSING #41		CROSSING #42		CROSSING #43		CROSSING #44		CROSSING #45		CROSSING #46		CROSSING #47	
FIRE WM INV.	229.26	STM INV.	228.86	DOM WM INV.	229.61	STM INV.	229.04	STM INV.	229.05	FIRE WM INV.	229.80	FIRE WM INV.	229.80	DOM WM INV.	229.22	STM INV.	230.30	STM INV.	230.36
DOM WM OBV.	228.76	FIRE WM OBV.	228.36	STM OBV.	229.11	DOM WM OBV.	228.54	FIRE WM OBV.	228.55	DOM WM OBV.	229.30	SAN OBV.	228.48	SAN OBV.	228.50	SAN OBV.	227.68	FIRE WM OBV.	229.86
CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	1.32	CLEARANCE	1.42	CLEARANCE	2.62	CLEARANCE	0.50
CROSSING #48		CROSSING #49		CROSSING #50		CROSSING #51		CROSSING #52		CROSSING #53		CROSSING #54		CROSSING #55		CROSSING #56		CROSSING #57	
STM INV.	230.38	FIRE WM INV.	228.67	FIRE WM INV.	230.00	STM INV.	229.37	STM INV.	229.38	STM INV.	229.32	STM INV.	229.32	STM INV.	230.51	STM INV.	229.94	STM INV.	230.01
DOM WM OBV.	228.88	SAN OBV.	227.74	DOM WM OBV.	229.50	FIRE WM OBV.	228.87	DOM WM OBV.	228.88	FIRE WM OBV.	228.82	SAN OBV.	227.74	FIRE WM OBV.	230.01	STM OBV.	229.38	FIRE WM OBV.	229.51
CLEARANCE	0.55	CLEARANCE	0.93	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	1.58	CLEARANCE	0.50	CLEARANCE	0.56	CLEARANCE	0.50
CROSSING #58		CROSSING #59		CROSSING #62		CROSSING #63		CROSSING #64		CROSSING #65									
FIRE WM INV.	229.72	DOM WM INV.	229.84	STM INV.	228.69	FIRE WM INV.	228.53	STM INV.	228.79	STM INV.	230.58								
STM OBV.	229.10	STM OBV.	229.12	FIRE WM OBV.	228.19	DOM WM OBV.	228.03	STM OBV.	227.45	STM OBV.	230.28								
CLEARANCE	0.62	CLEARANCE	0.72	CLEARANCE	0.50	CLEARANCE	0.50	CLEARANCE	1.32	CLEARANCE	0.30								

1	ISSUED FOR 1ST ZBA SUBMISSION	M.E.O	2025-04-11	M.E.O
No.	REVISIONS TO DRAWING	BY	DATE	APPR.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED				
CLIENT				
KERBEL GROUP INC.				
MUNICIPALITY				
				
PROJECT TITLE				
WEST HOLLAND LANDING SOUTH RETAIL BLOCK				
SHEET TITLE				
CROSSINGS				
CONSULTANT				
				
150 Commerce Valley Dr. West, Thornhill, ON Canada L3T 7Z3 T: 905.882.1100 F: 905.882.0055 www.wsp.com				
STAMP		APPROVAL		
				
DESIGNED	A.S / S.V.S	DRAWN	10/12 CAD	CHECKED
SCALE	-	DATE	APRIL 2025	
PROJECT NUMBER		DWG. NUMBER		
CA0042438.4289		CR1		



KEY PLAN
LEGEND

- PROPERTY LINE
- PROPOSED ELEVATION
- TOP/BOTTOM OF CURB ELEVATION
- EXISTING ELEVATION
- PROPOSED FLOOR ELEVATION
- DRAINAGE DIRECTION
- OVERLAND FLOW DIRECTION
- PROP. CATCHBASIN / MANHOLE
- PROPOSED DEPRESSED CURB
- PROPOSED RETAINING WALL
- STEEP SLOPE
- HIGH POINT
- BUILDING ENTRANCES

NTS

1	ISSUED FOR 1ST ZBA SUBMISSION	M.E.O.	2025-04-11	M.E.O.
No.	REVISIONS TO DRAWING	BY	DATE	APPR.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED				
CLIENT				

KERBEL GROUP INC.

MUNICIPALITY
East Gwillimbury

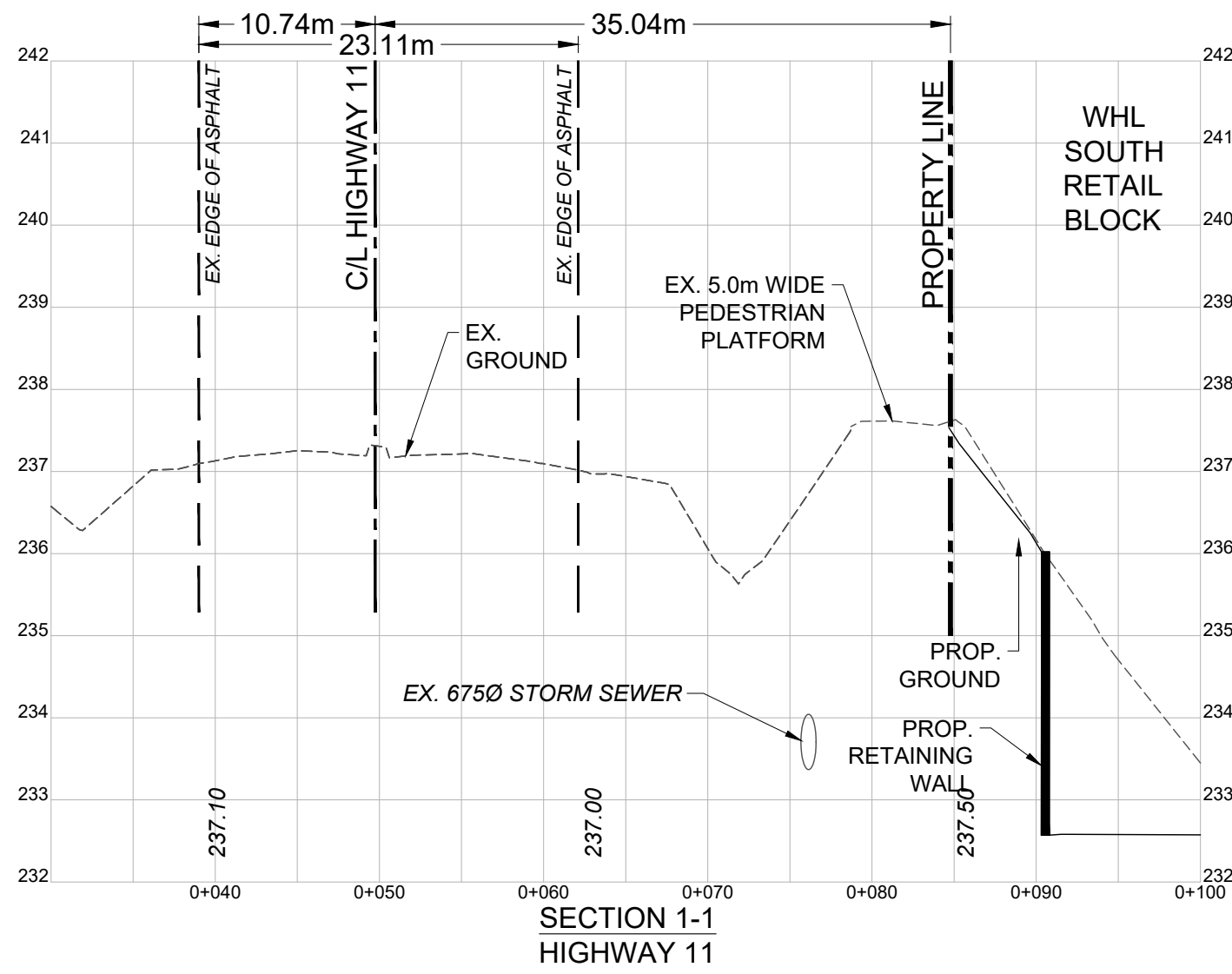
PROJECT TITLE
WEST HOLLAND LANDING
SOUTH RETAIL BLOCK

SHEET TITLE
SITE GRADING PLAN

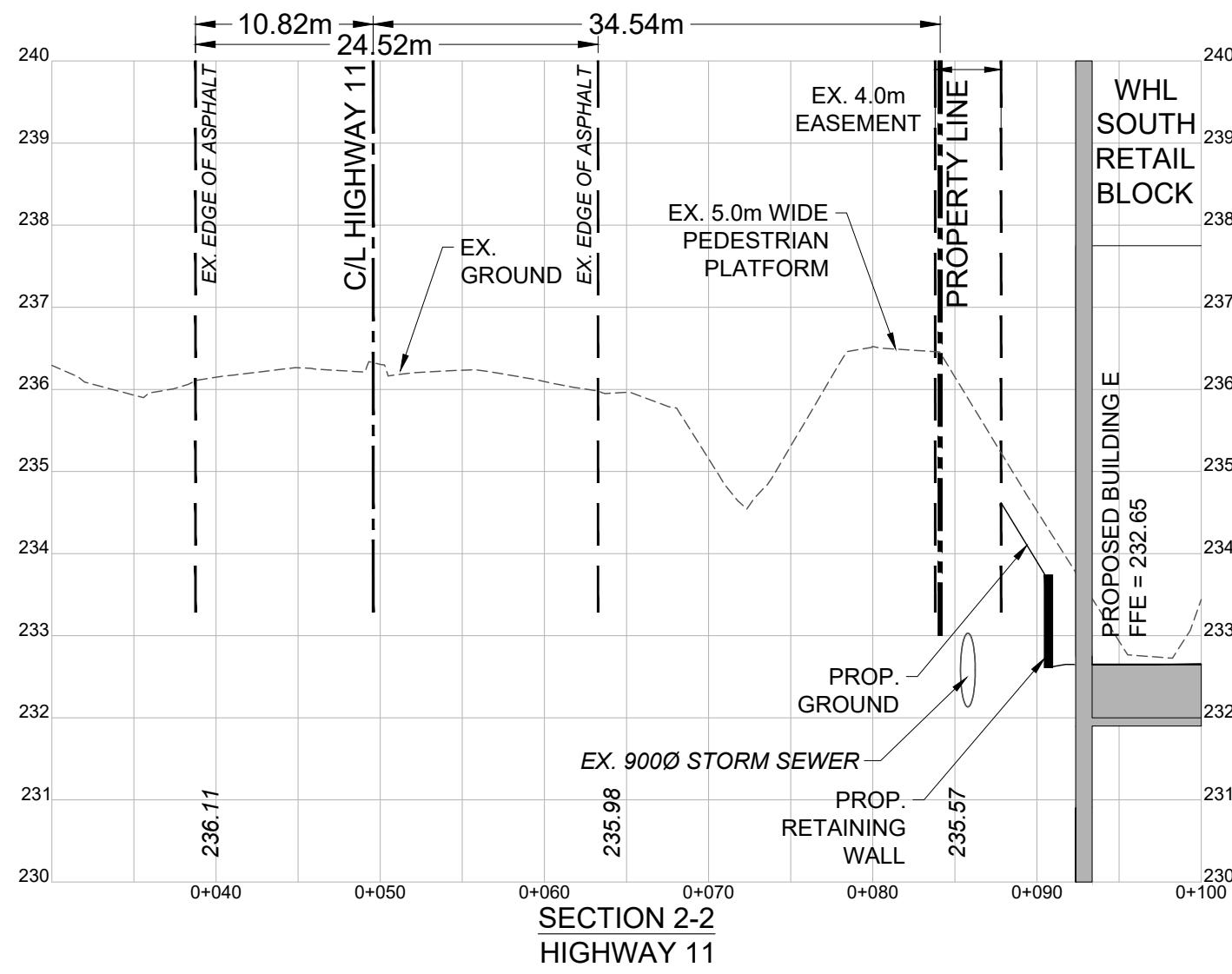
CONSULTANT
wsp

STAMP
PROFESSIONAL ENGINEER
M. E. OLDHAM
Apr. 13 2025
PROVINCE OF ONTARIO

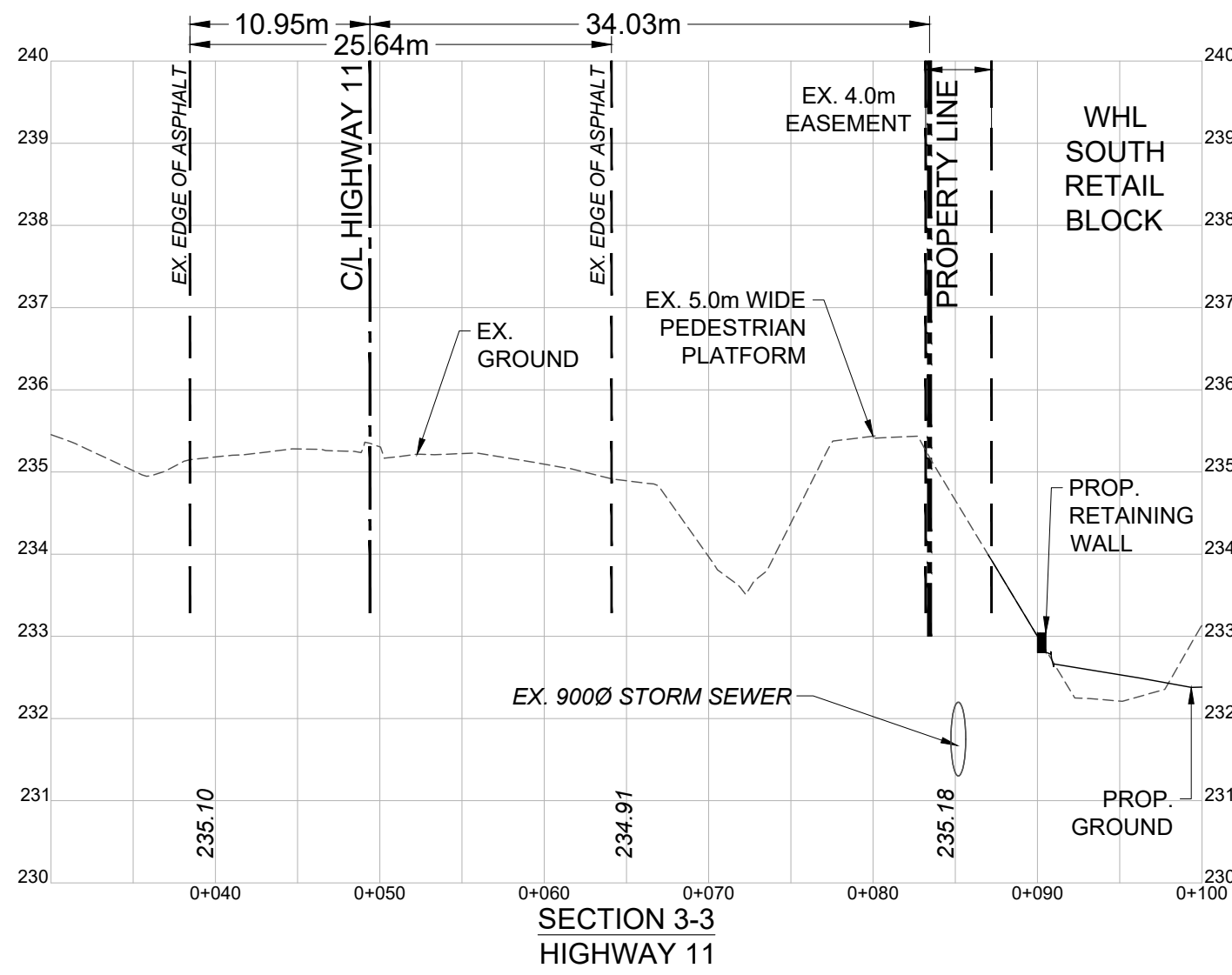
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SCALE 1:400	DATE APRIL 2025	DWG. NUMBER SG1
PROJECT NUMBER CA0042438.4289		



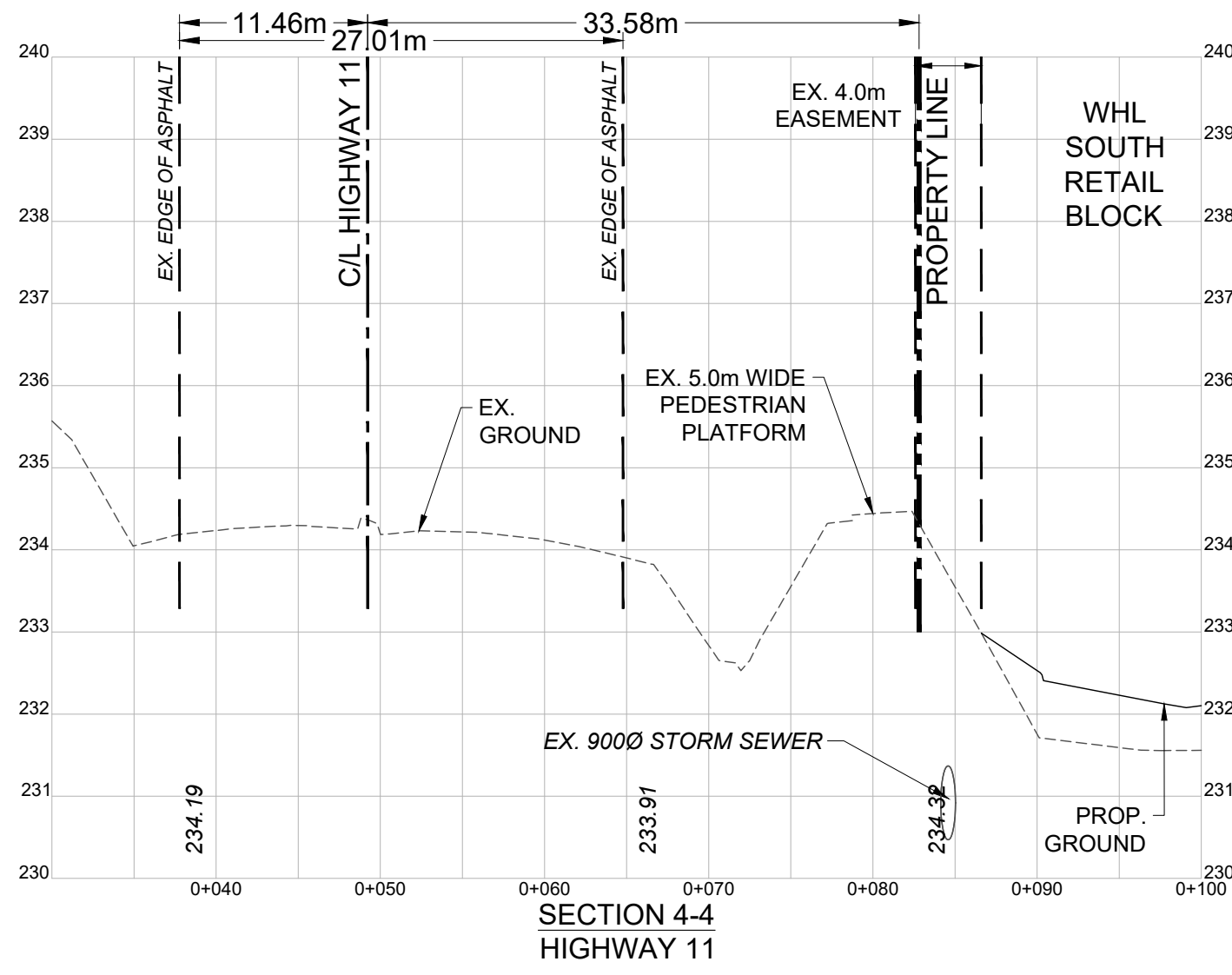
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HIGHWAY 11



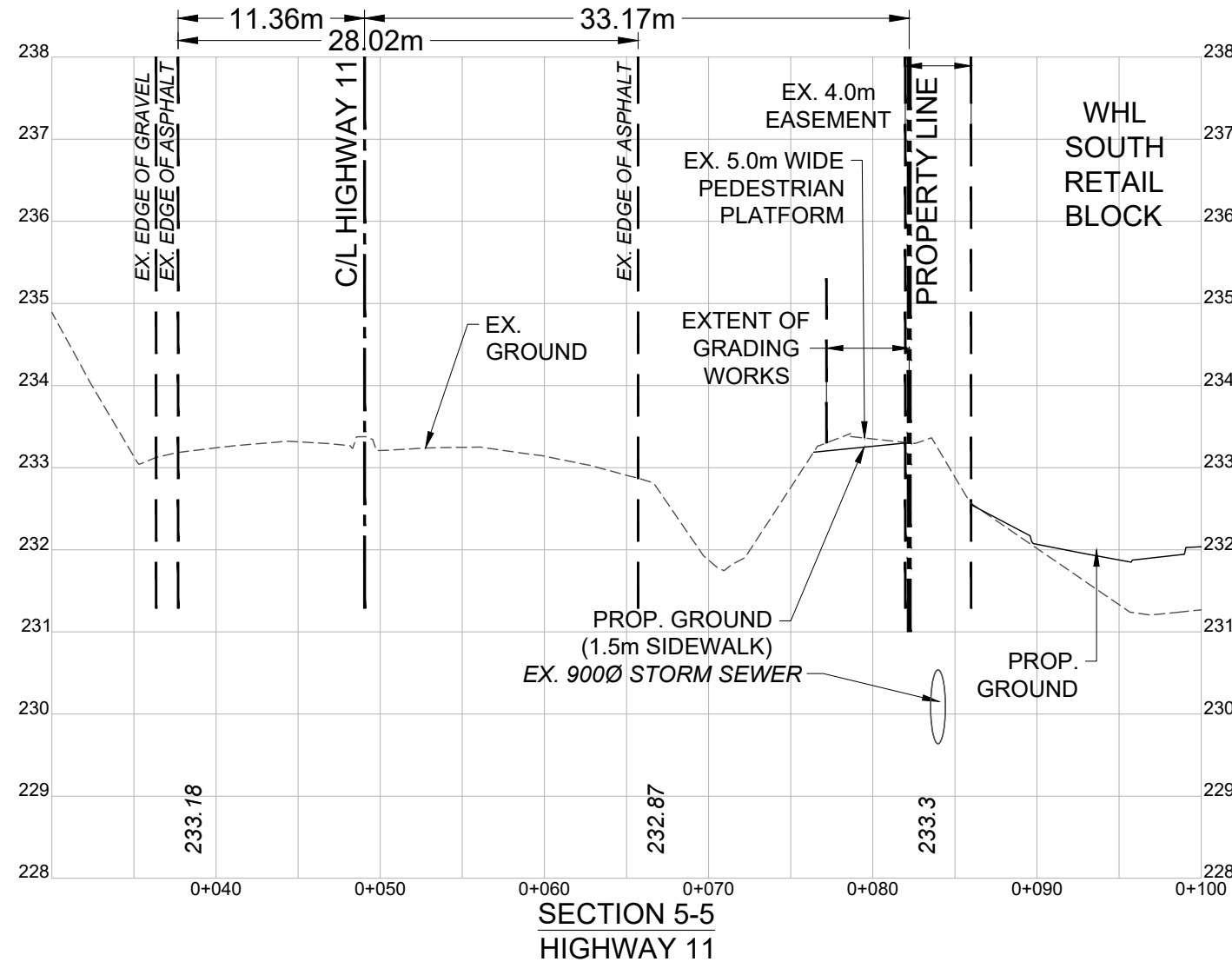
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HIGHWAY 11



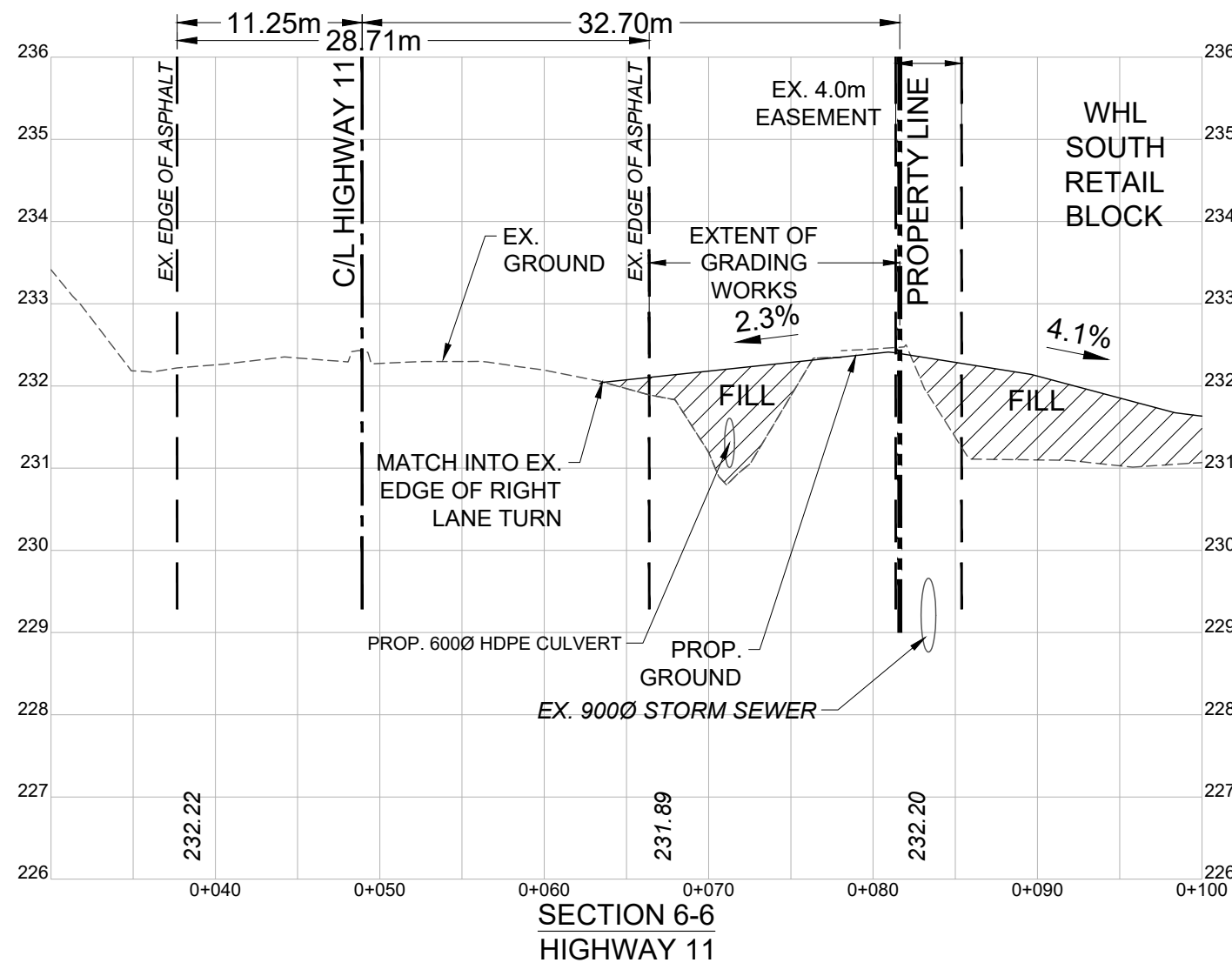
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HIGHWAY 11



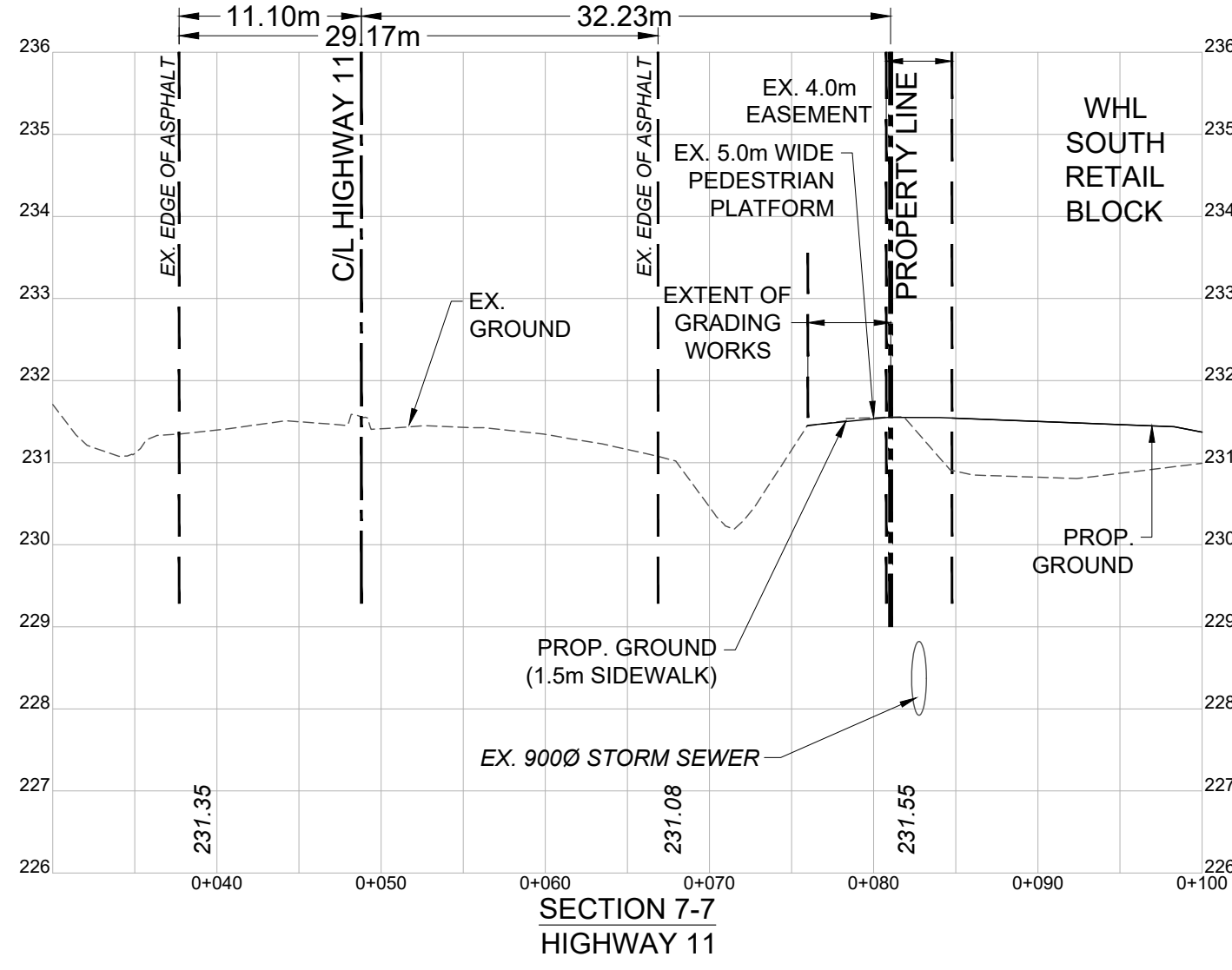
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HIGHWAY 11



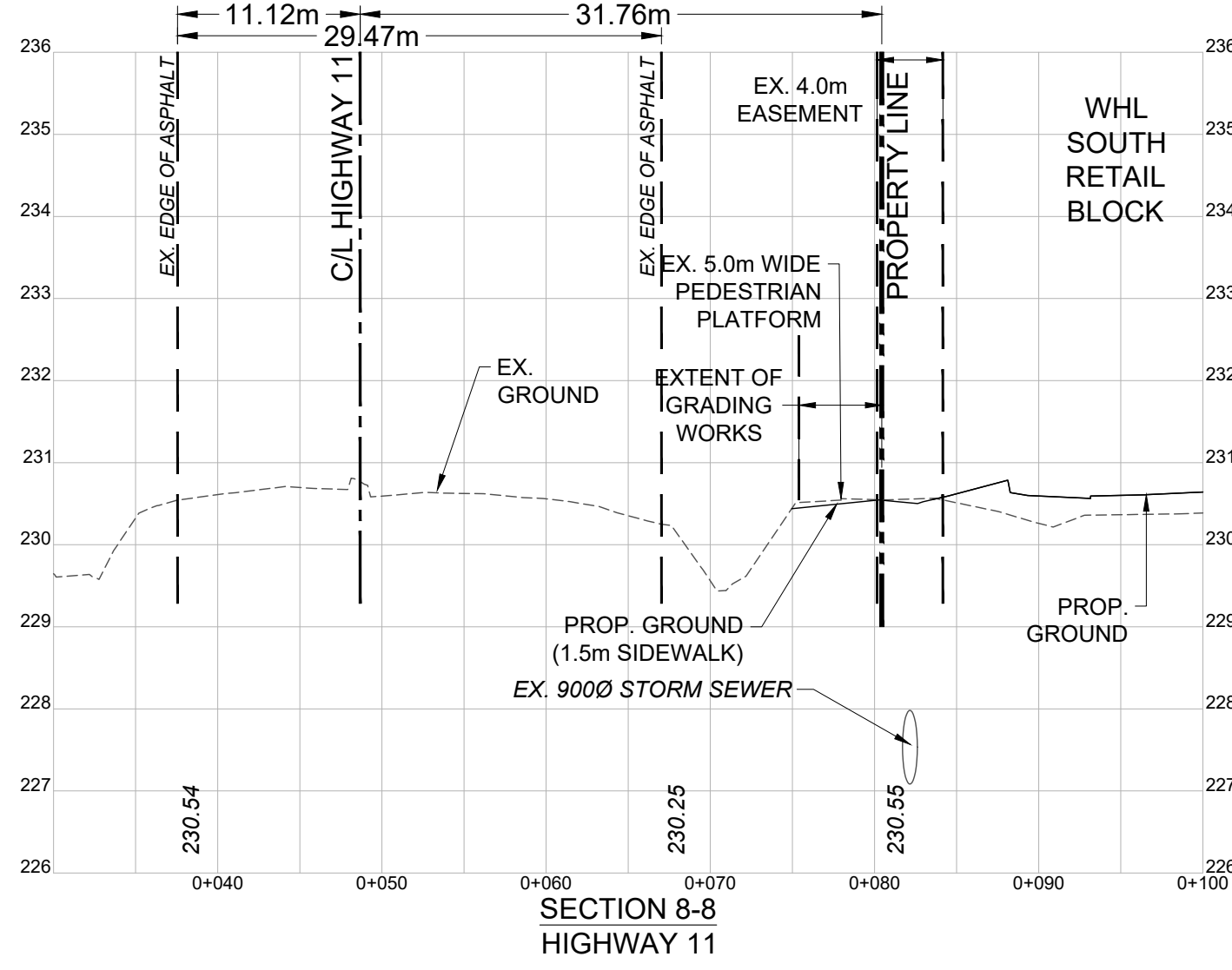
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HIGHWAY 11



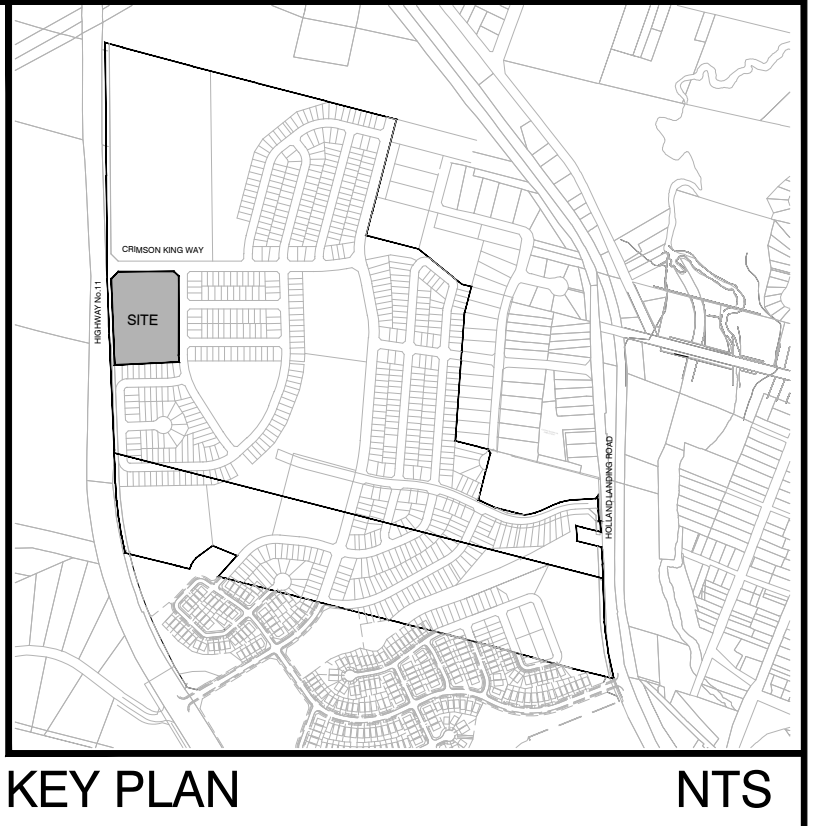
SECTION 6-6
HIGHWAY 11



SECTION 7-7
HIGHWAY 11



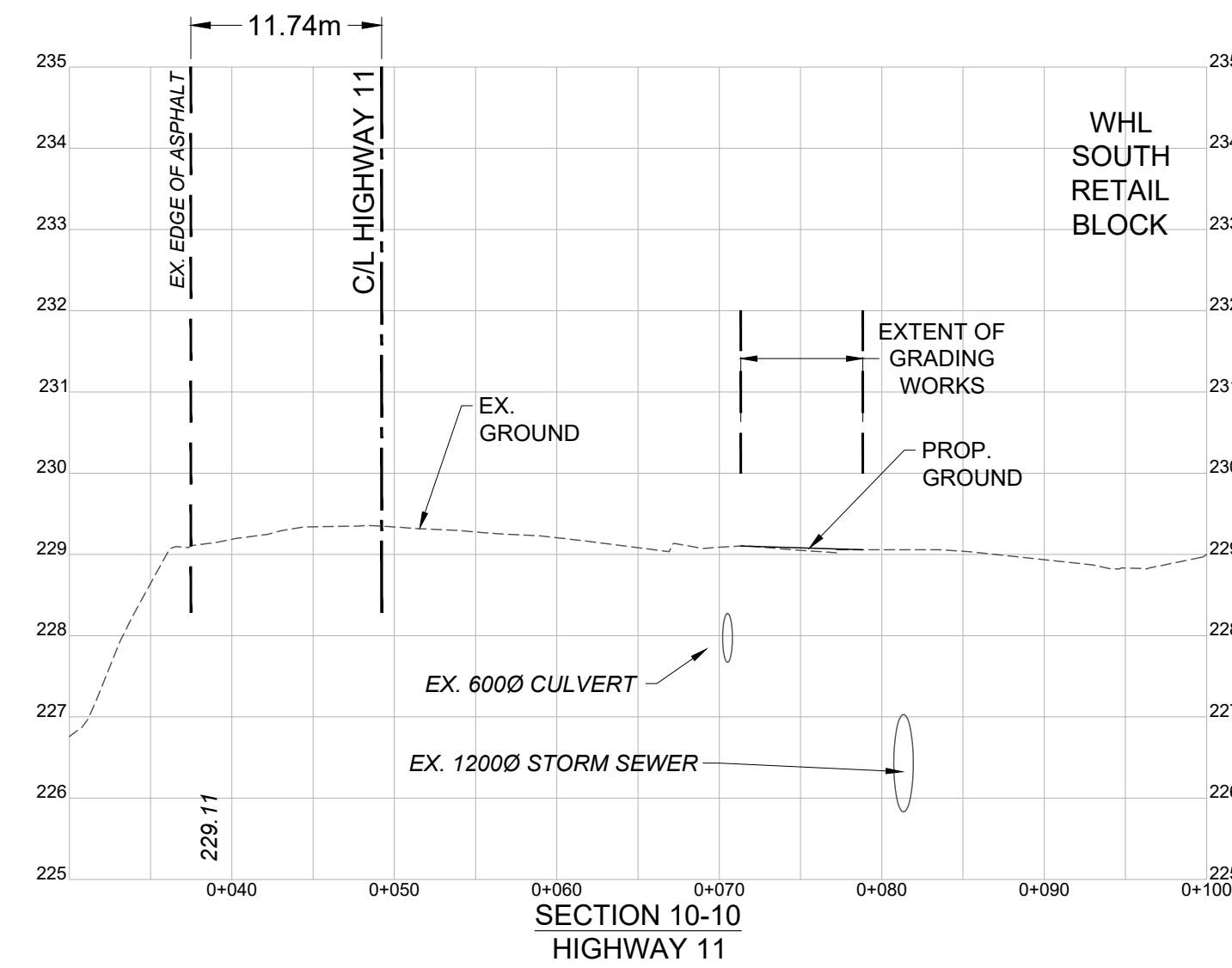
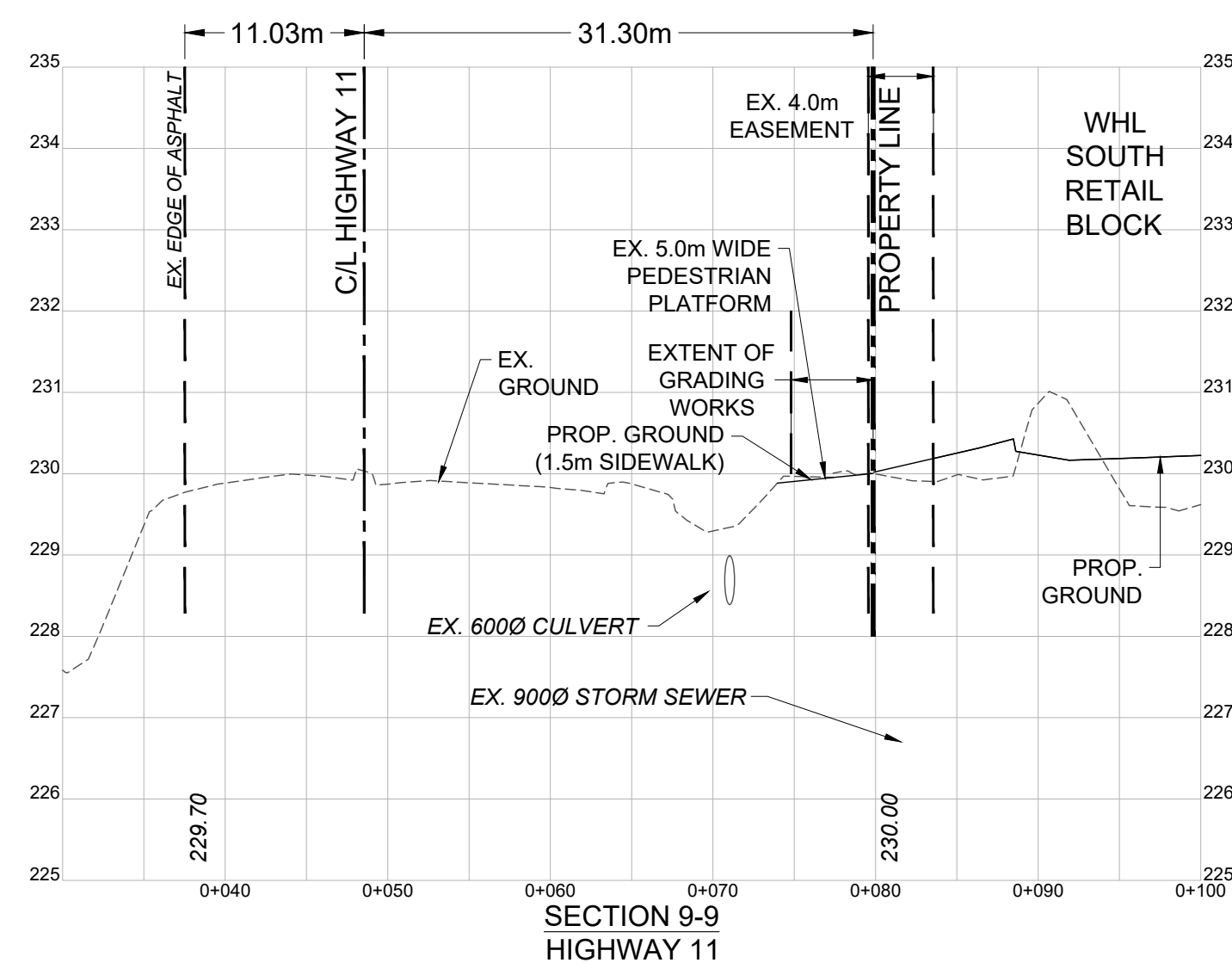
SECTION 8-8
HIGHWAY 11

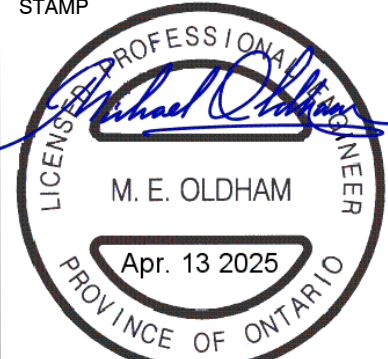


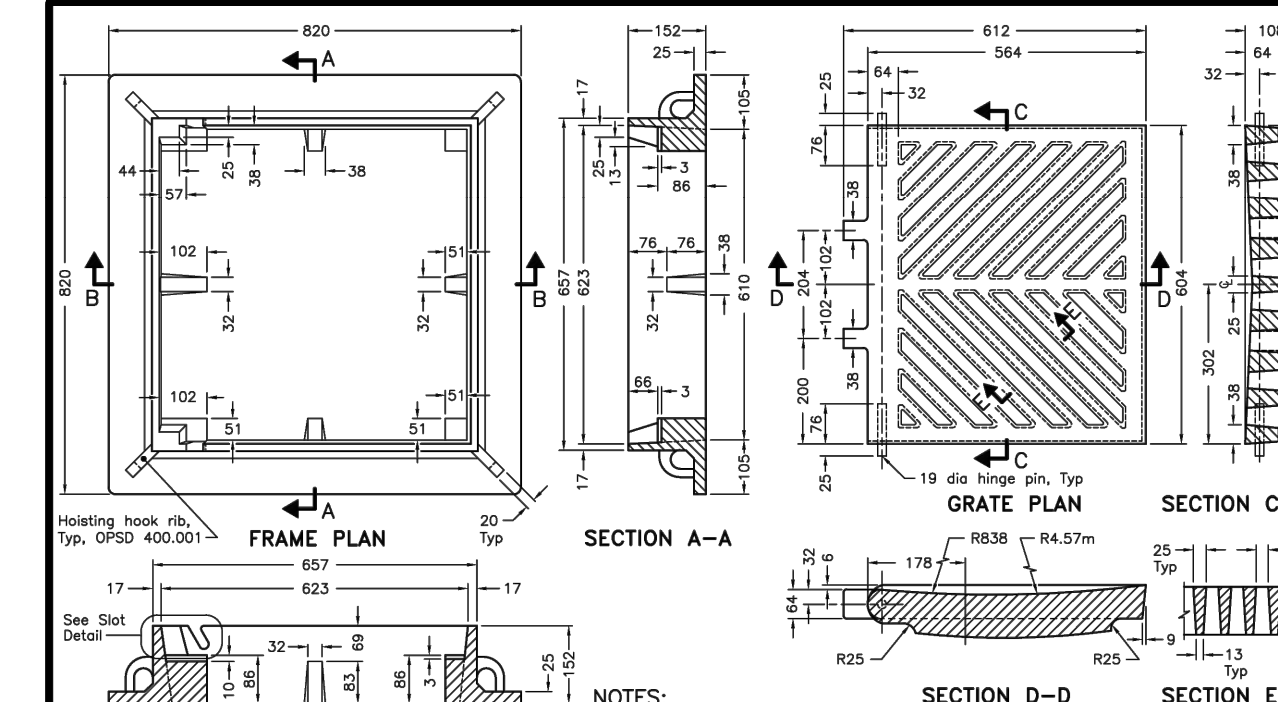
KEY PLAN

NTS

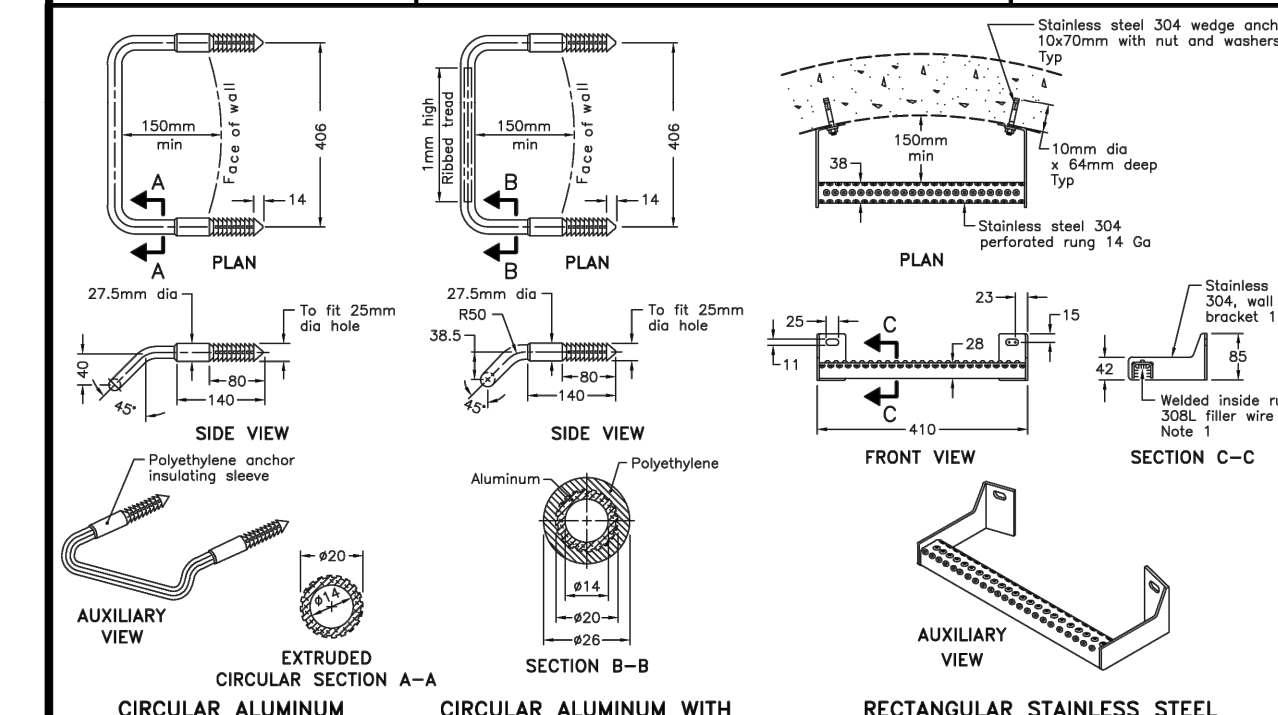
1 ISSUED FOR 1ST ZBA SUBMISSION				M.E.O	2025-04-11	M.E.O
No.	REVISIONS TO DRAWING	BY	DATE	APPR.		
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED						
CLIENT						
KERBEL GROUP INC.						
MUNICIPALITY						
PROJECT TITLE						
WEST HOLLAND LANDING SOUTH RETAIL BLOCK						
SHEET TITLE						
HIGHWAY 11 - CROSS-SECTIONS						
CONSULTANT						
150 Commerce Valley Dr. West, Thornhill, ON Canada L3T 7Z3 T: 905.882.1100 F: 905.882.0055 www.wsp.com						
STAMP		APPROVAL				
DESIGNED	A.S / S.V.S	DRAWN	10/12 CAD	CHECKED	M.E.O.	
SCALE	H-1:400 V-1:80			DATE	APRIL 2025	
PROJECT NUMBER				DWG. NUMBER		
CA0042438.4289				CS1		



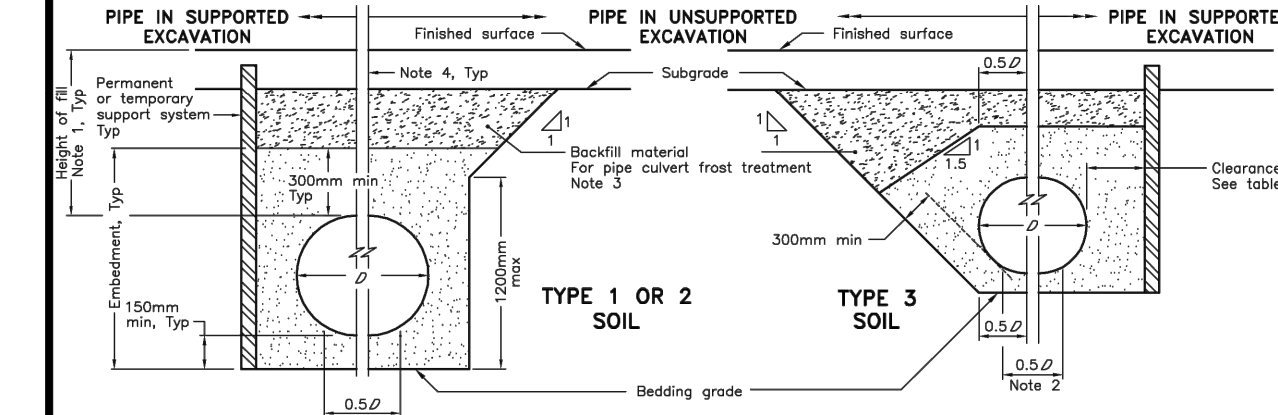
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No.	REVISIONS TO DRAWING	BY	DATE	APPR.			
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED							
CLIENT KERBEL GROUP INC. MUNICIPALITY  East Gwillimbury PROJECT TITLE WEST HOLLAND LANDING SOUTH RETAIL BLOCK SHEET TITLE HIGHWAY 11 - CROSS-SECTIONS CONSULTANT  150 Commerce Valley Dr. West, Thornhill, ON Canada L3T 7Z3 t 905.882.1100 e 905.882.0055 www.wsp.com STAMP  APPROVAL DESIGNED A.S / S.V.S DRAWN 10/12 CAD CHECKED M.E.O. SCALE H=1:400 V=1:80 DATE APRIL 2025 PROJECT NUMBER CA0042438.4289 DWG. NUMBER CS2							



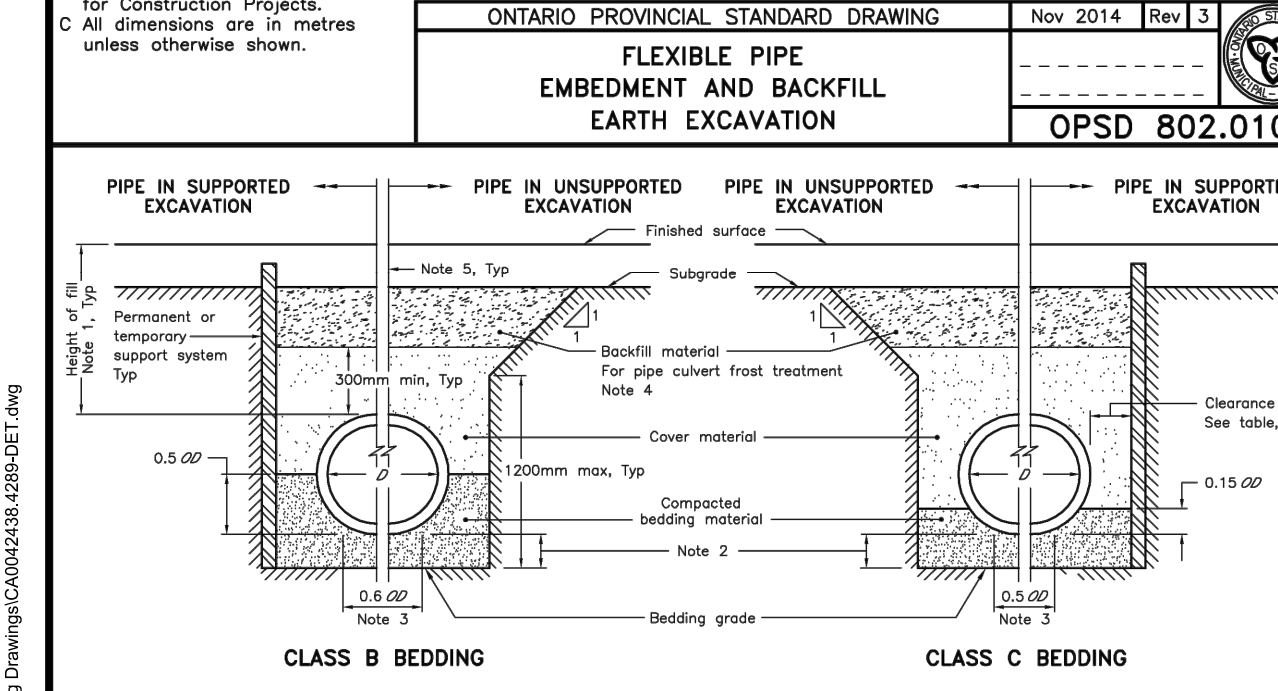
ONTARIO PROVINCIAL STANDARD DRAWING
CAST IRON, SQUARE FRAME WITH
SQUARE OVERFLOW TYPE DISH GRATE FOR
CATCH BASINS, HERRING BONE OPENINGS
OPSD 400.010



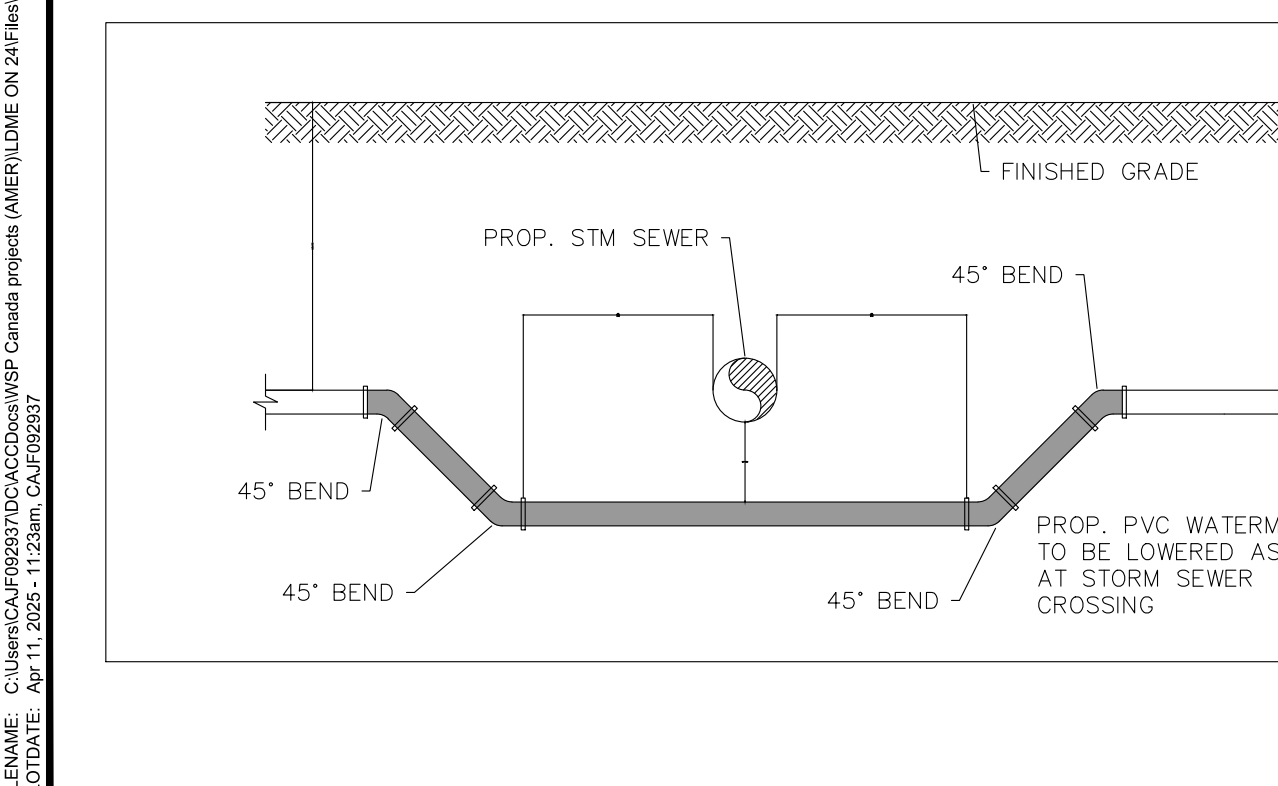
ONTARIO PROVINCIAL STANDARD DRAWING
MAINTENANCE HOLE STEPS
HOLLOW
OPSD 405.010



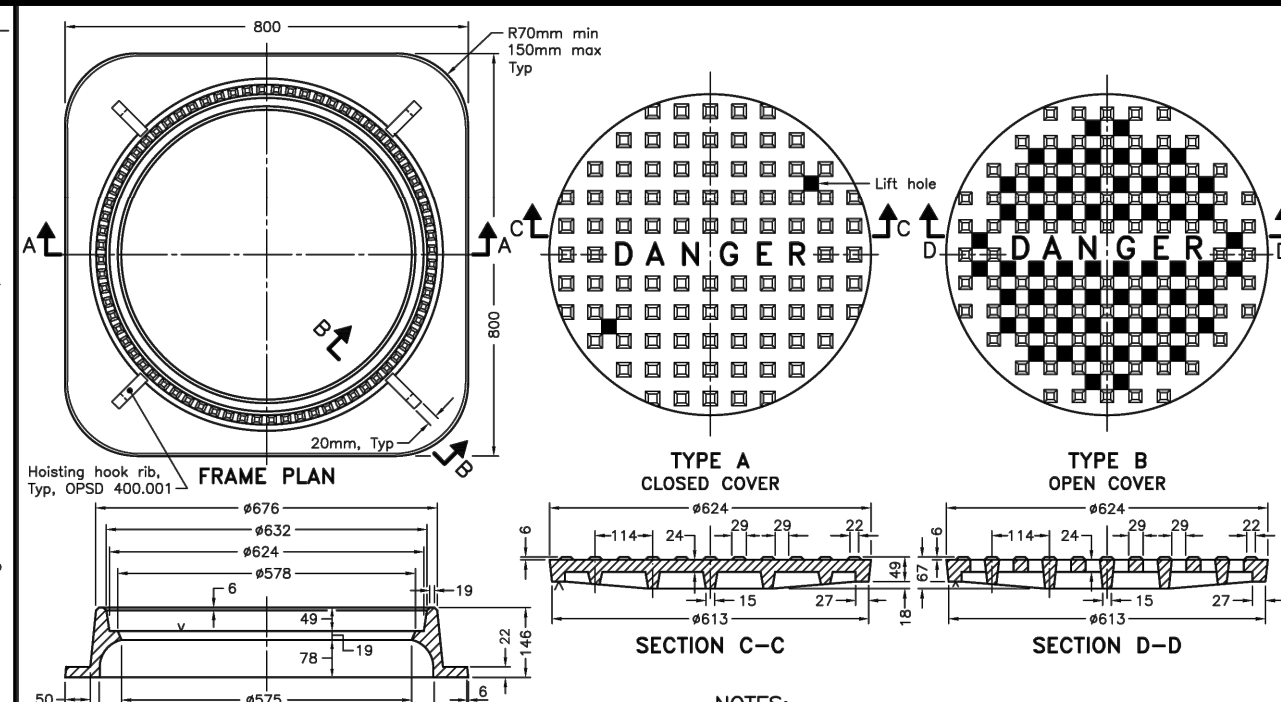
ONTARIO PROVINCIAL STANDARD DRAWING
FLEXIBLE PIPE
EMBEDMENT AND BACKFILL
EARTH EXCAVATION
OPSD 802.010



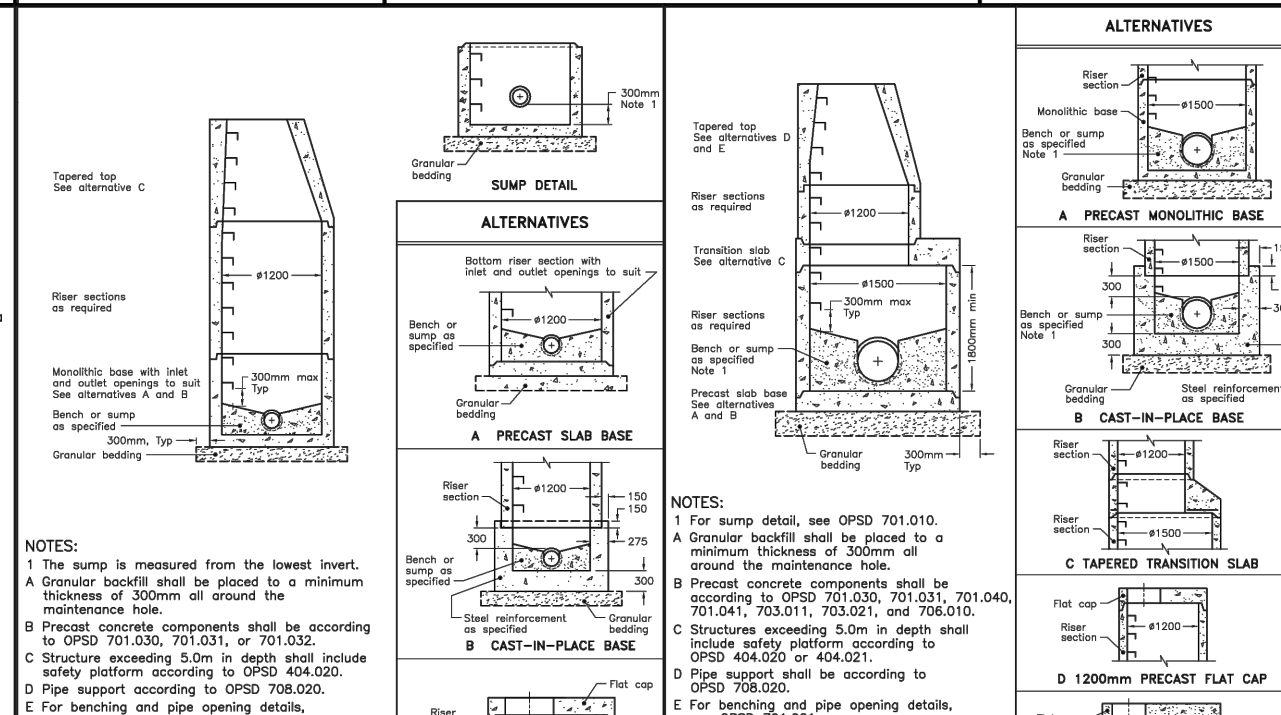
ONTARIO PROVINCIAL STANDARD DRAWING
RIGID PIPE BEDDING,
COVER, AND BACKFILL
TYPE 1 OR 2 SOIL - EARTH EXCAVATION
OPSD 802.030



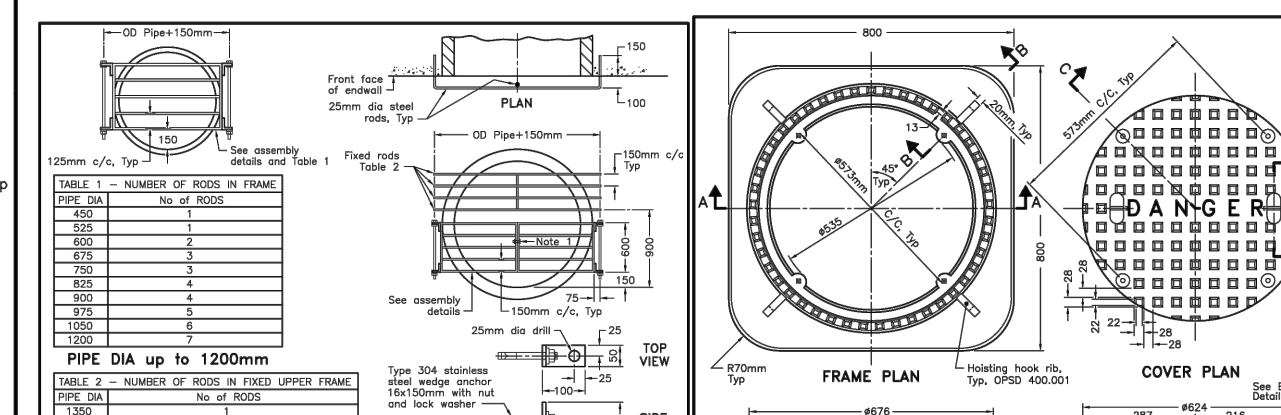
ONTARIO PROVINCIAL STANDARD DRAWING
SUPPORT FOR PIPE
AT CATCH BASIN
OR MAINTENANCE HOLE
OPSD 708.020



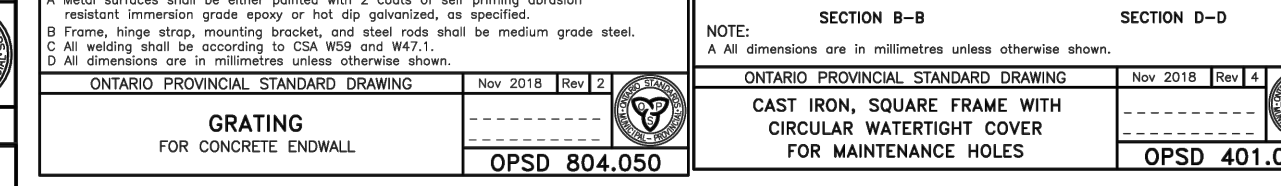
ONTARIO PROVINCIAL STANDARD DRAWING
CAST IRON, SQUARE FRAME WITH
CIRCULAR CLOSED OR OPEN COVER
FOR MAINTENANCE HOLES
OPSD 401.010



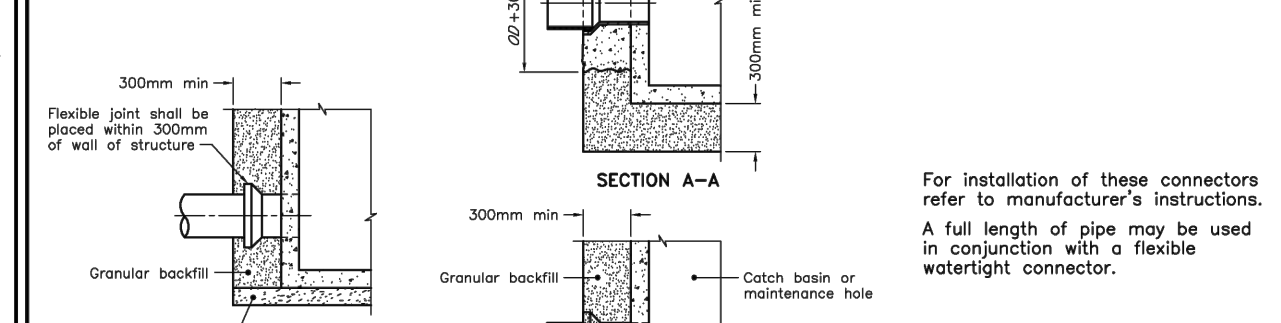
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PRECAST CONCRETE
MAINTENANCE HOLE
1500mm DIAMETER
OPSD 701.010



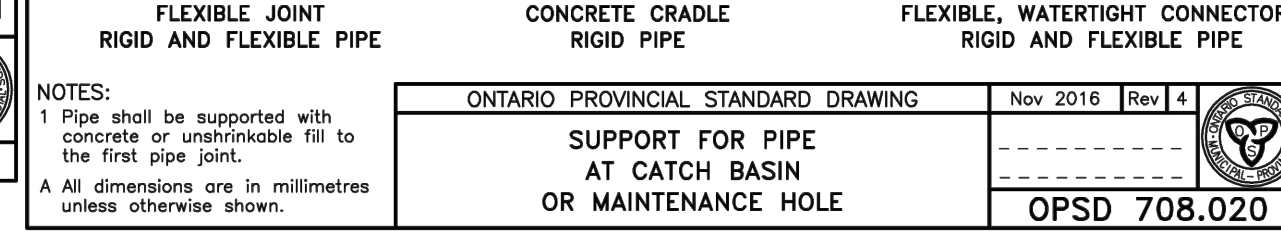
ONTARIO PROVINCIAL STANDARD DRAWING
PRECAST CONCRETE
MAINTENANCE HOLE
1500mm DIAMETER
OPSD 701.011



ONTARIO PROVINCIAL STANDARD DRAWING
PRECAST CONCRETE
MAINTENANCE HOLE
2400mm DIAMETER
OPSD 701.012



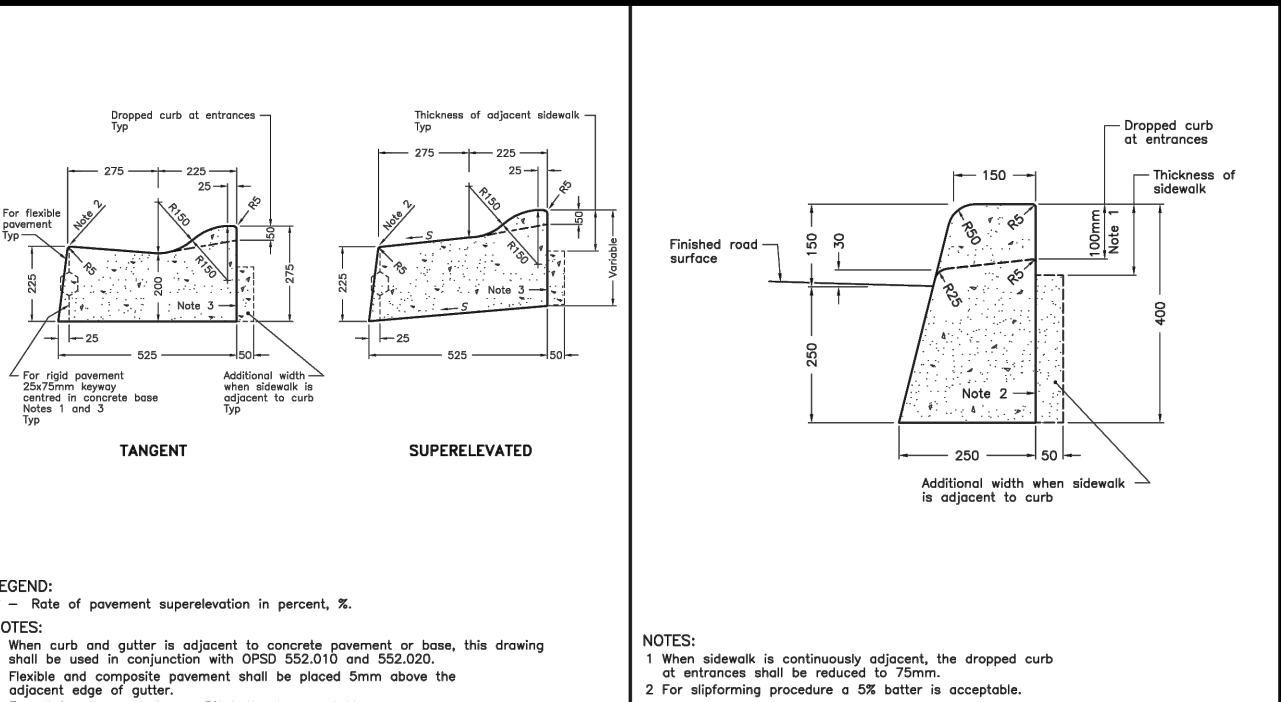
ONTARIO PROVINCIAL STANDARD DRAWING
PRECAST CONCRETE
MAINTENANCE HOLE
2400mm DIAMETER
OPSD 701.013



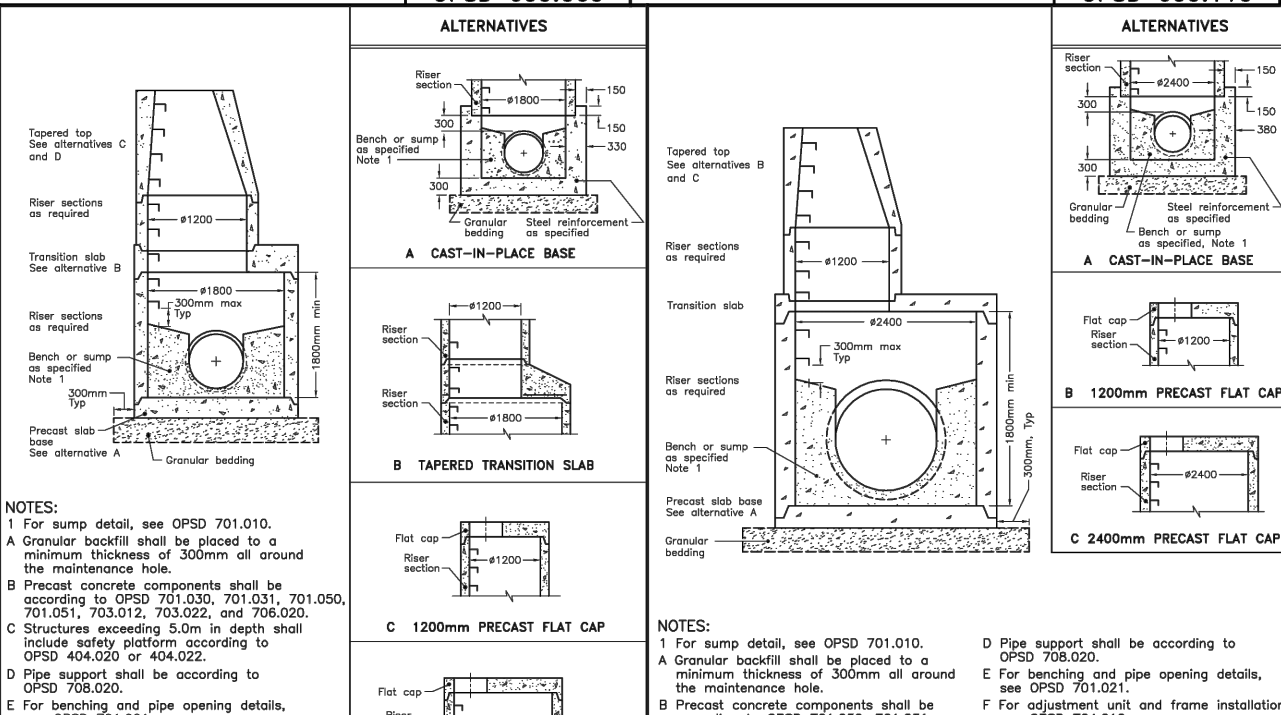
ONTARIO PROVINCIAL STANDARD DRAWING
PRECAST CONCRETE
MAINTENANCE HOLE
2400mm DIAMETER
OPSD 701.013



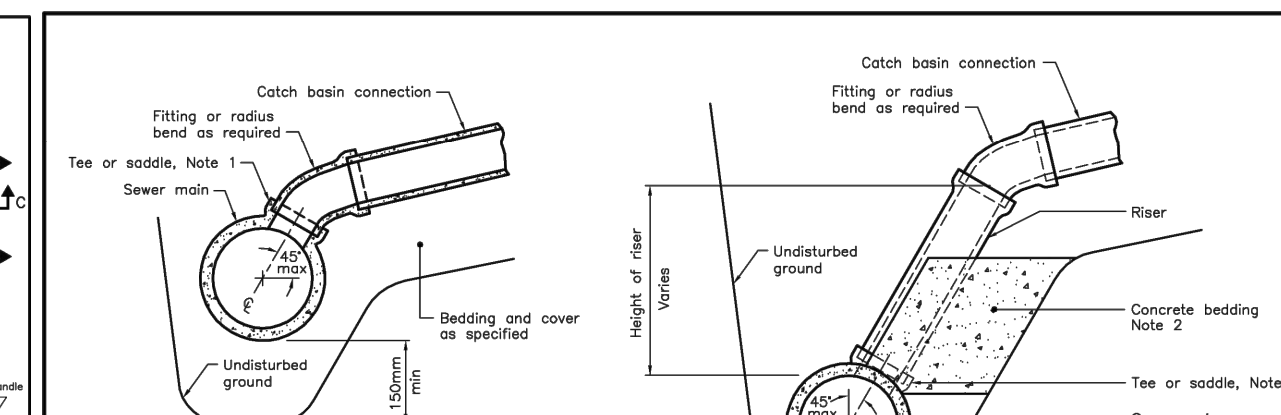
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PRECAST CONCRETE
MAINTENANCE HOLE
2400mm DIAMETER
OPSD 701.013



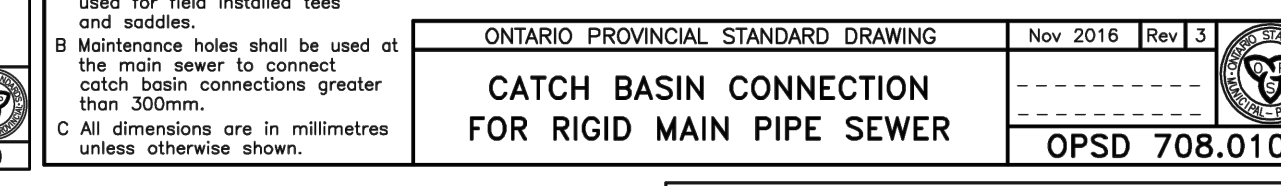
ONTARIO PROVINCIAL STANDARD DRAWING
CONCRETE SEMI-MOUNTABLE
CURB WITH STANDARD GUTTER
OPSD 600.060



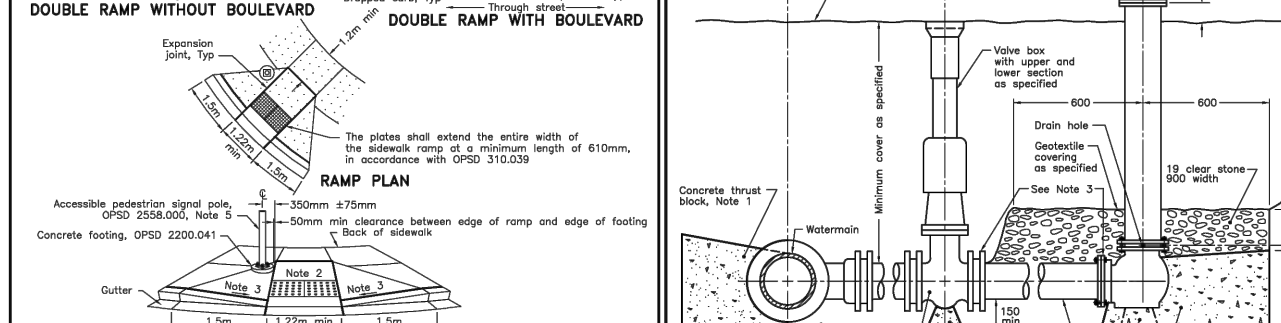
ONTARIO PROVINCIAL STANDARD DRAWING
CONCRETE SEMI-MOUNTABLE
CURB WITH STANDARD GUTTER
OPSD 600.060



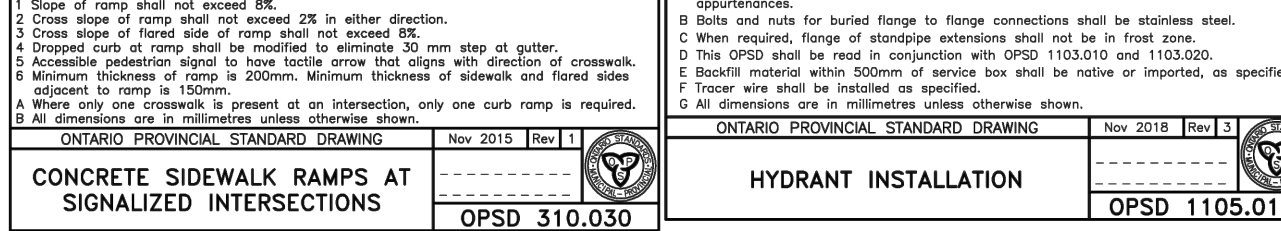
ONTARIO PROVINCIAL STANDARD DRAWING
CONCRETE SEMI-MOUNTABLE
CURB WITH STANDARD GUTTER
OPSD 600.060



ONTARIO PROVINCIAL STANDARD DRAWING
CONCRETE SEMI-MOUNTABLE
CURB WITH STANDARD GUTTER
OPSD 600.060



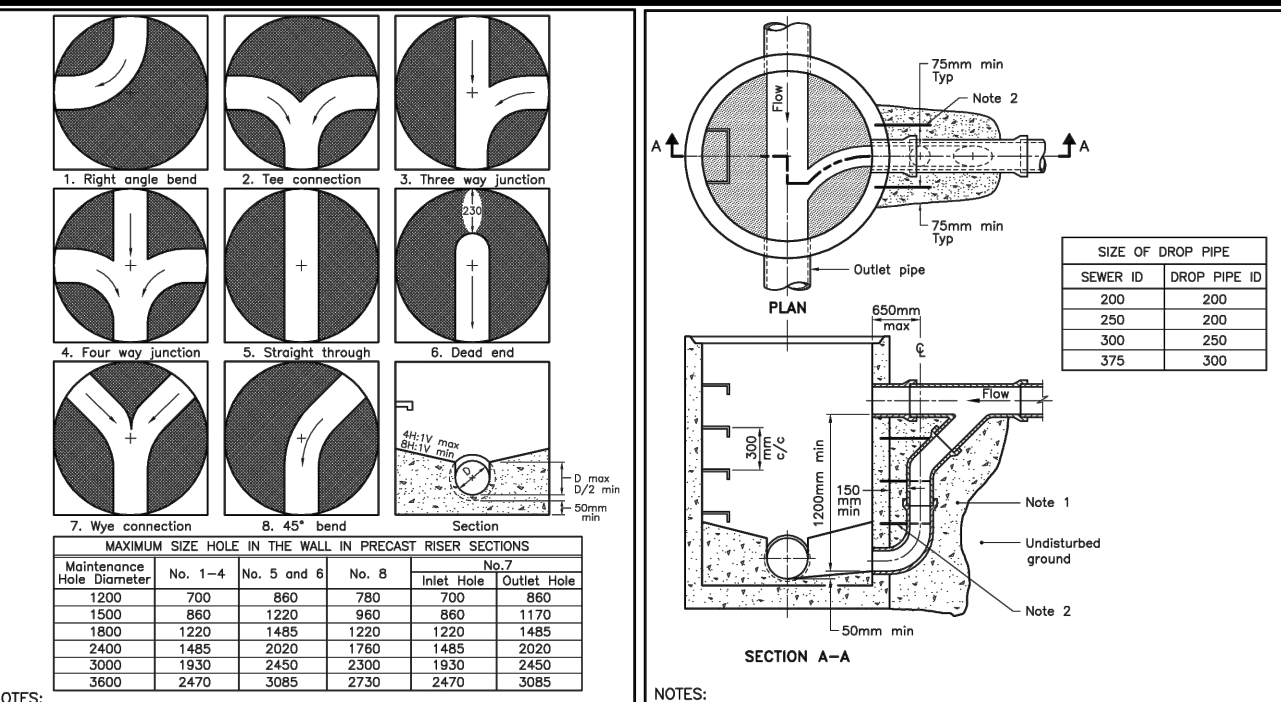
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CONCRETE SEMI-MOUNTABLE
CURB WITH STANDARD GUTTER
OPSD 600.060



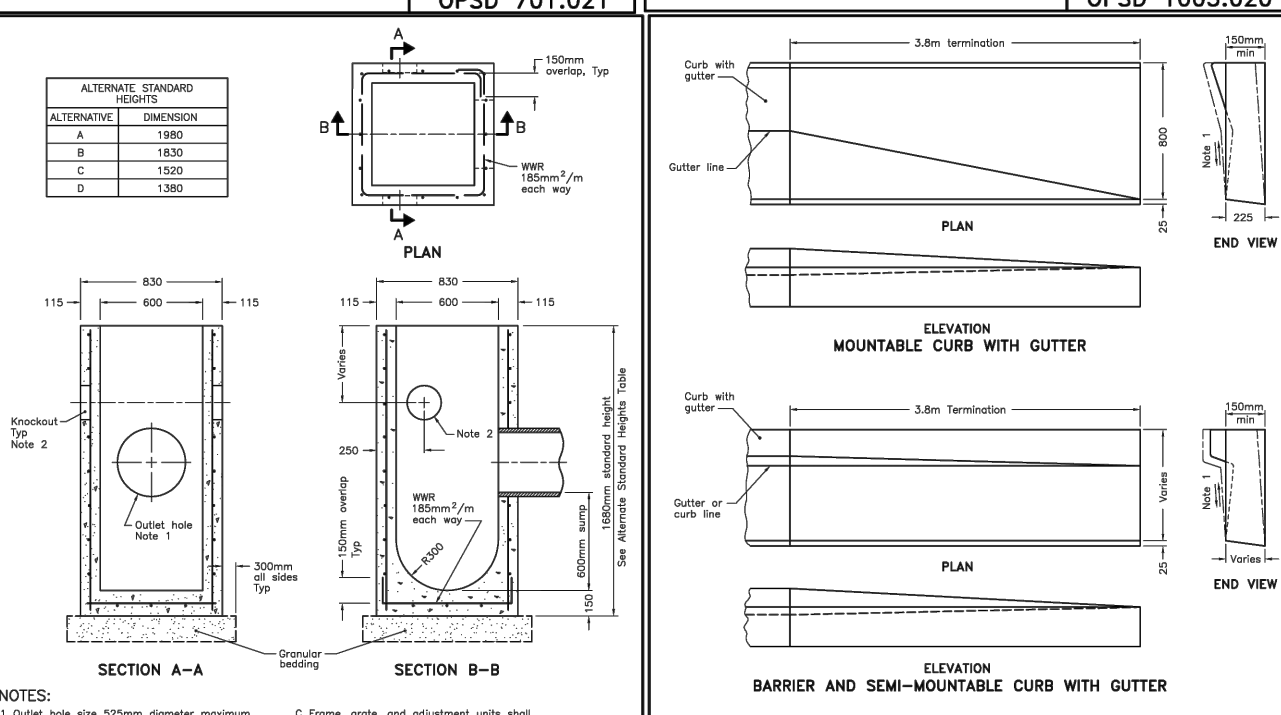
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CONCRETE SEMI-MOUNTABLE
CURB WITH STANDARD GUTTER
OPSD 600.060



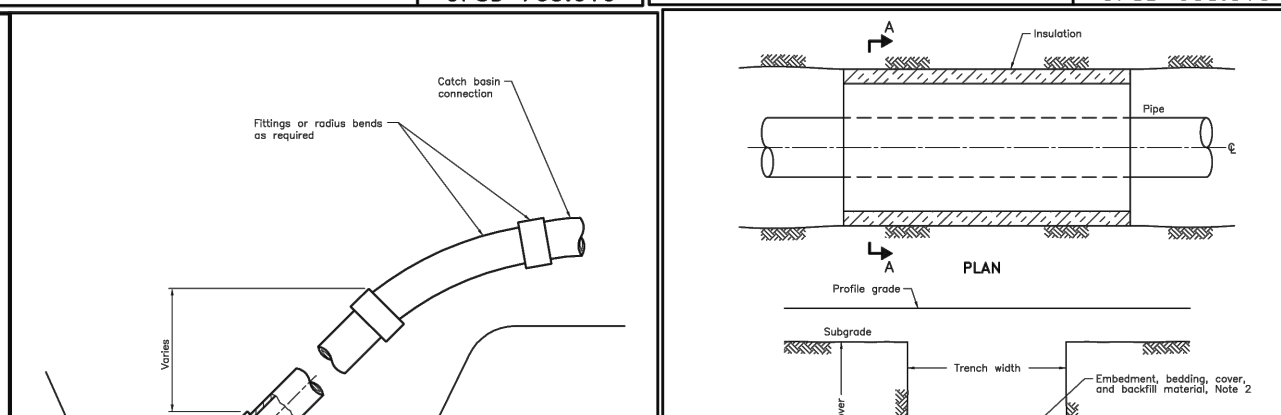
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CONCRETE SEMI-MOUNTABLE
CURB WITH STANDARD GUTTER
OPSD 600.060



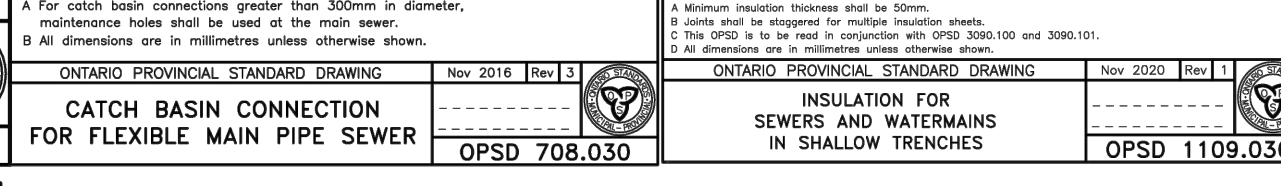
ONTARIO PROVINCIAL STANDARD DRAWING
CONCRETE BARRIER CURB
OPSD 600.110



ONTARIO PROVINCIAL STANDARD DRAWING
CONCRETE BARRIER CURB
OPSD 600.110



ONTARIO PROVINCIAL STANDARD DRAWING
CONCRETE BARRIER CURB
OPSD 600.110



ONTARIO PROVINCIAL STANDARD DRAWING
CONCRETE BARRIER CURB
OPSD 600.110



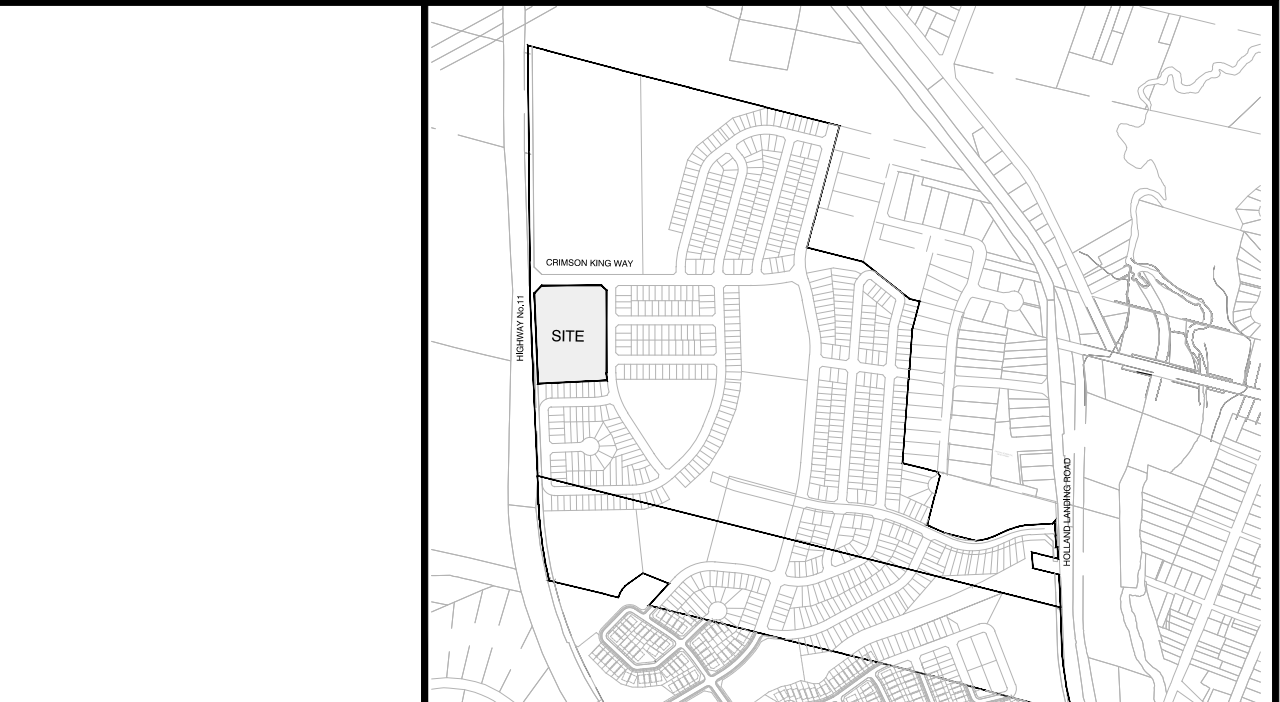
ONTARIO PROVINCIAL STANDARD DRAWING
CONCRETE BARRIER CURB
OPSD 600.110



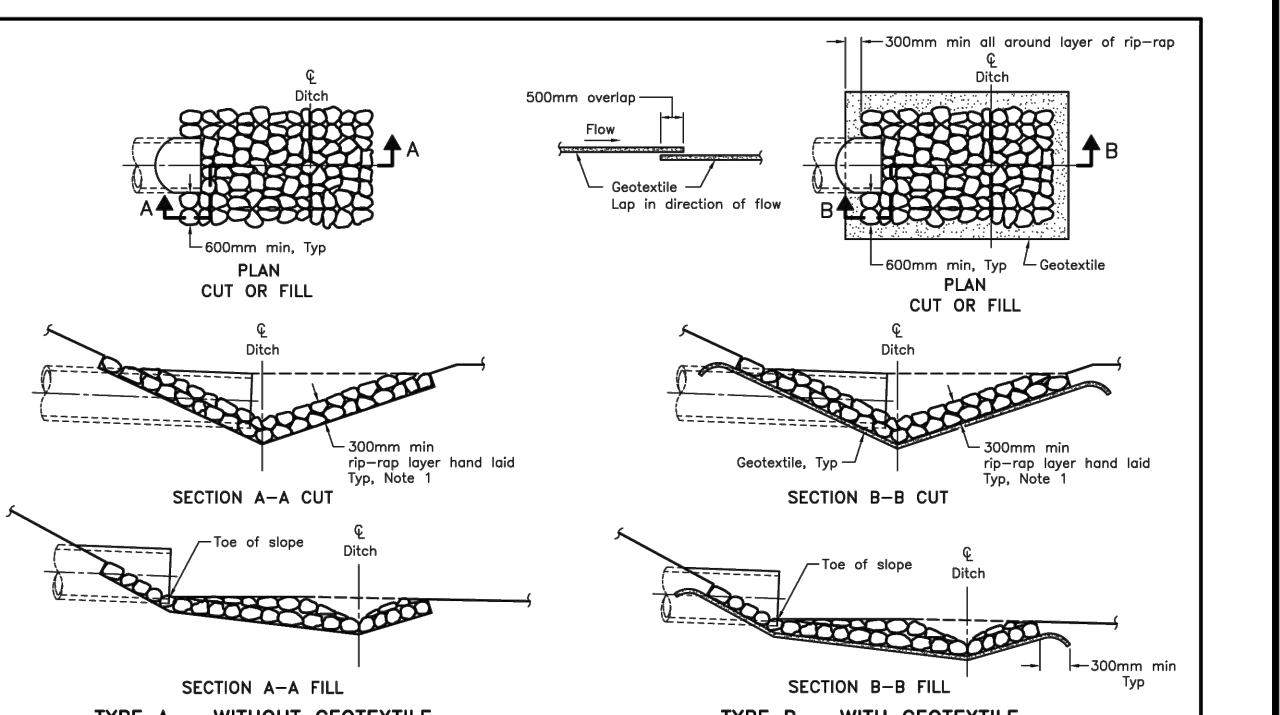
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CONCRETE BARRIER CURB
OPSD 600.110



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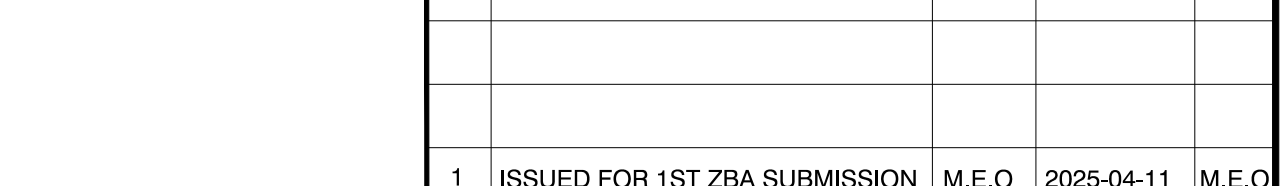
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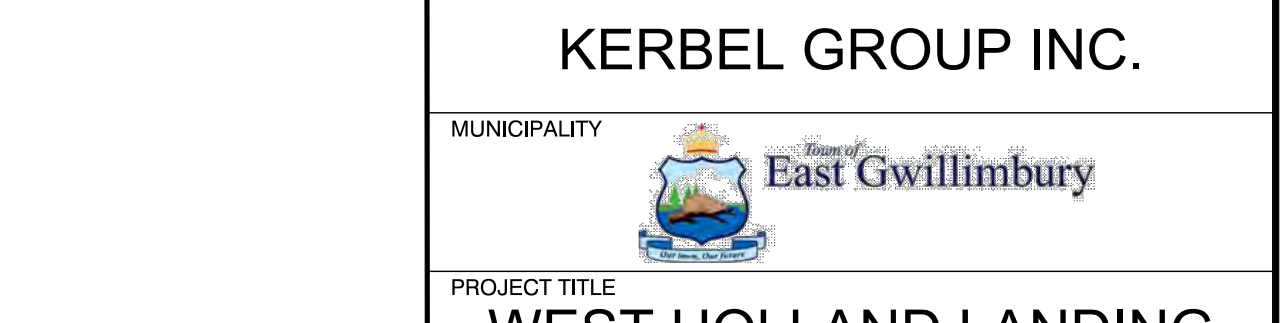
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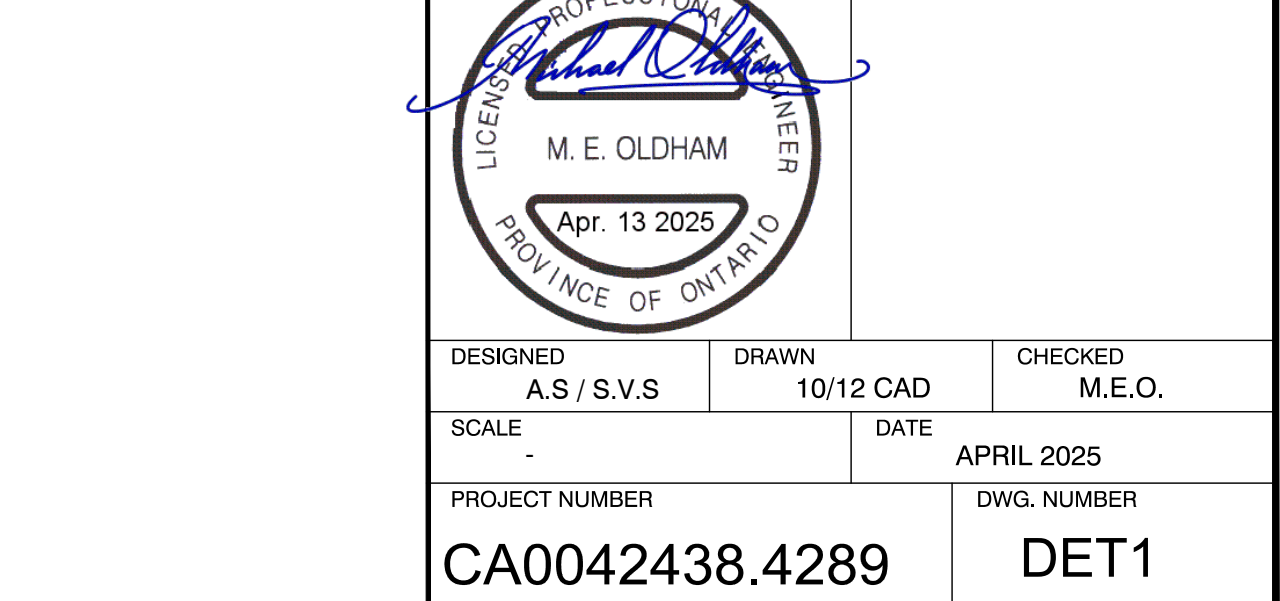
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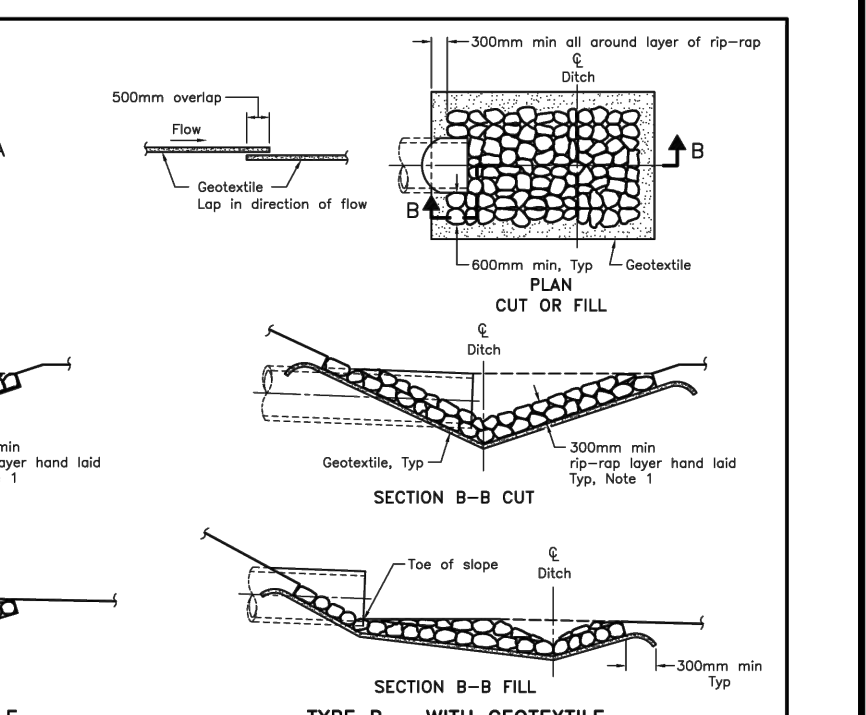
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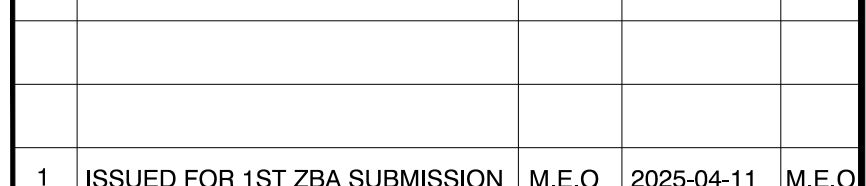
KEY PLAN



ONTARIO PROVINCIAL STANDARD DRAWING
GENERAL RIP-RAP LAYOUT
FOR SEWER AND CULVERT OUTLETS
OPSD 810.010



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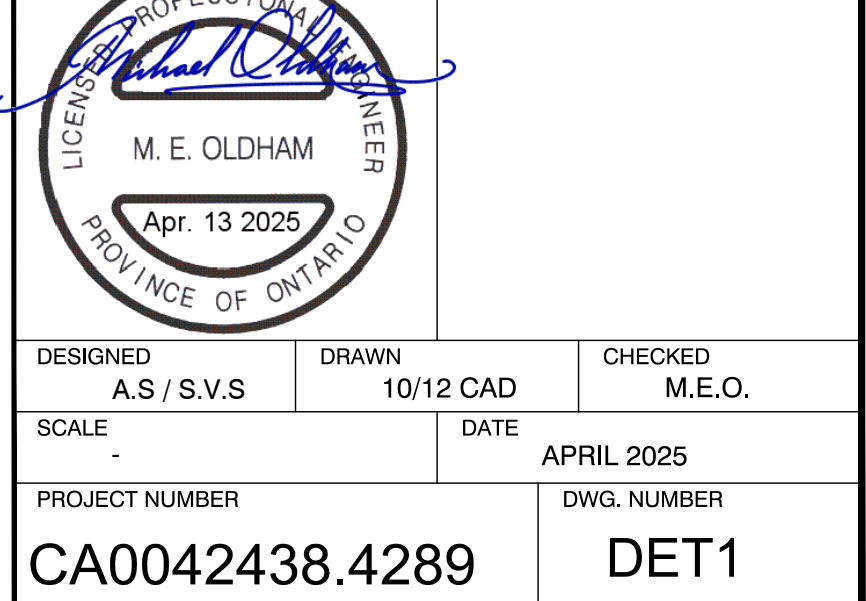
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