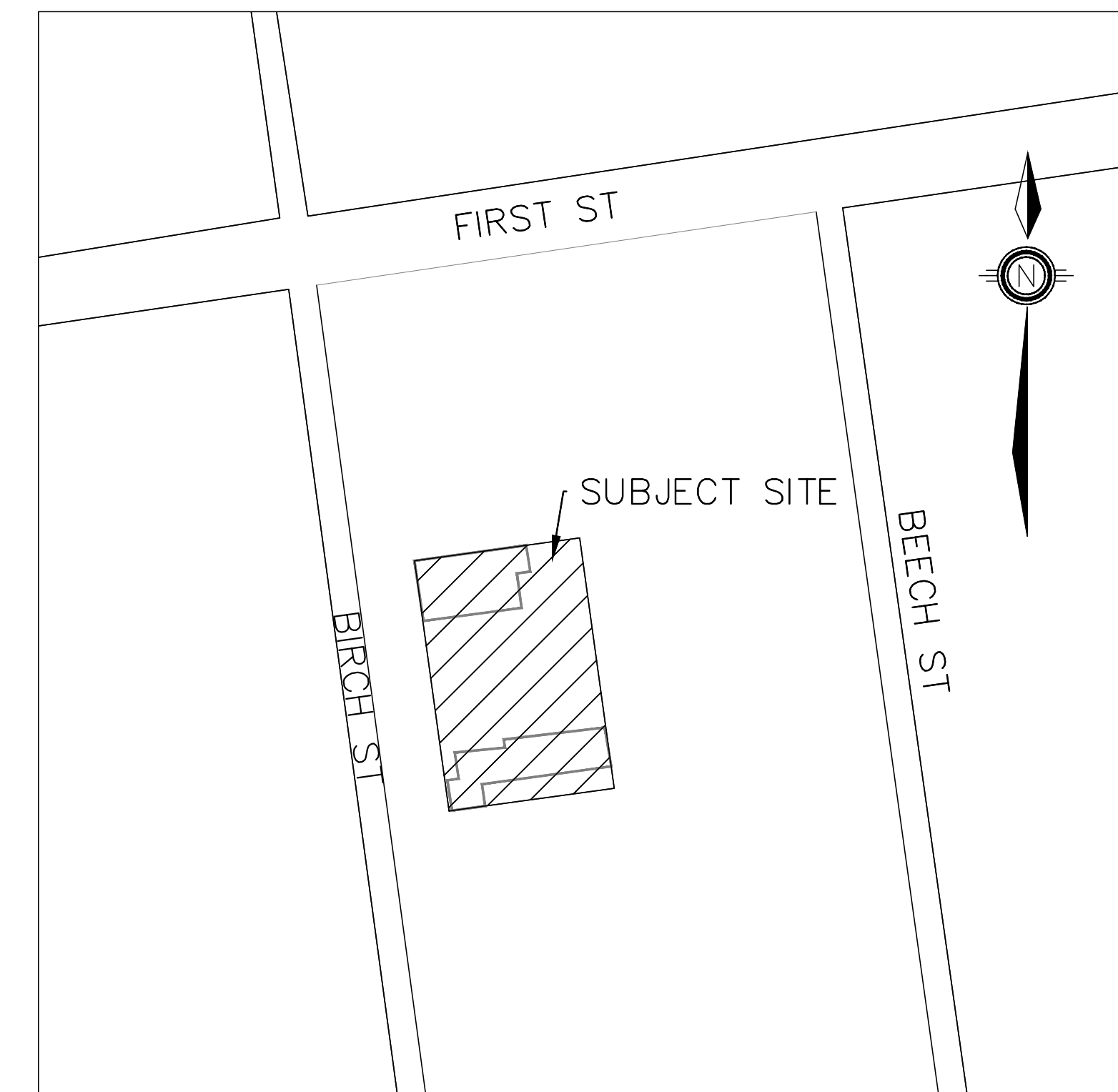


**SIMCOE COUNTY AFFORDABLE  
HOUSING DEVELOPMENT  
29 AND 45 BIRCH STREET  
TOWN OF COLLINGWOOD**

**DRAWING LIST**

- ND-1 NOTES AND DETAILS (1 OF 3)
- ND-2 NOTES AND DETAILS (2 OF 3)
- ND-3 NOTES AND DETAILS (3 OF 3)
- SG-1 SITE GRADING PLAN
- SS-1 SITE SERVICING PLAN
- CS-1 CROSS SECTION PLAN
- STM-1 PRE-DEVELOPMENT STORM CATCHMENT PLAN
- STM-2 POST-DEVELOPMENT STORM CATCHMENT PLAN
- S1 RETAINING WALL DESIGN STRUCTURAL NOTES & SITE PLAN
- S2 RETAINING WALL DESIGN RETAINING WALL ELEVATIONS
- EPR-1 EROSION PROTECTION AND REMOVALS PLAN



TOWN OF COLLINGWOOD  
97 HURONTARIO STREET  
COLLINGWOOD, ON L9Y 3Z5

720 COMMERCIAL  
MODULAR BUILDING  
SOLUTIONS



**PEARSON**  
**ENGINEERING**  
PEARSONENG.COM PH. 705.719.4785

**1. DRAWINGS**

- A. THE STANDARD DRAWINGS OF THE TOWN OF COLLINGWOOD, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS, (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) CONSTITUTE PART OF THE PLANS OF THIS CONTRACT.
- B. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY TOWN OF COLLINGWOOD'S STANDARD DRAWINGS AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).

**2. MEASUREMENTS**

- A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.
- B. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION, AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

**3. GENERAL**

- A. ALL WORK TO BE DONE TO TOWN OF COLLINGWOOD STANDARDS AND OPSS. WHERE CONFLICT OCCURS TOWN OF COLLINGWOOD STANDARDS GOVERN.
- B. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF, AND FOR THE COST OF REPLACING, LAYOUT STAKES, BENCHMARKS AND SURVEY BARS.
- C. THE CONTRACTOR IS REQUIRED TO CONFIRM EXISTING GRADES AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING WORK.
- D. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING INFORMATION IN REGARD TO EXACT LOCATION OF BURIED UTILITIES. THIS SHALL INCLUDE EXCAVATION OF INSPECTED HOLES IF NECESSARY. THE CONTRACTOR MUST EXERCISE NECESSARY CONSTRUCTION OPERATIONS INCLUDING IF NECESSARY HAND DIGGING TO SAFEGUARD UTILITIES FROM DAMAGE. THE CONTRACTOR SHALL ARRANGE FOR TEMPORARY SUPPORT OF UTILITY POLES AS MAY BE REQUIRED TO COMPLETE TIES. THE CONTRACTOR IS LIABLE FOR ALL DAMAGE TO UTILITIES OCCURRING WITHIN OR OUTSIDE THE CONTRACT LIMITS CAUSE HIS OPERATIONS.
- E. THE CONTRACTOR IS TO SUBMIT SAMPLES AND A GRADATION ANALYSIS OF THE PROPOSED GRANULAR MATERIALS FOR APPROVAL BY THE ENGINEER PRIOR TO PLACING.
- F. TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL CONFORM TO MUNICIPAL REQUIREMENTS AND THE MOST CURRENT ONTARIO CONSTRUCTION REGULATIONS INCLUDING REGULATION No. 213 UNDER OHS&A AND REFERENCE TO MTO TEMPORARY CONDITIONS MANUAL BOOK No. 7.
- G. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REINSTATED TO EXISTING CONDITION OR BETTER.
- H. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER AND/OR CALCIUM CHLORIDE AS REQUIRED FOR COMPACTION AND/OR DUST CONTROL.
- I. FOR THE DURATION OF THE CONTRACT, MATERIAL THAT BECOMES CONTAMINATED DUE TO CONTRACTORS ACTIVITY SHALL BE REMOVED AND REPLACED AT NO EXTRA COST TO THE CONTRACTOR.
- J. DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS 517 AND 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION.
- K. ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL OR INDUSTRIAL AREA.
- L. ALL CONNECTIONS TO SANITARY SEWERS AND WATER MAIN REQUIRE APPROVED FACTORY MADE TEES OR SADDLES.
- M. PIPE DEFLECTIONS SHALL NOT EXCEED MANUFACTURERS SPECIFICATIONS.
- N. FLEXIBLE PIPE EMBEDMENT AND BACKFILL TO OPSD 802.010 WITH GRANULAR 'A' FOR EMBEDMENT MATERIAL.
- O. FLEXIBLE PIPE EMBEDMENT AND BACKFILL MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- P. MODIFIED PIPE BEDDING UNDER WET TRENCH CONDITIONS: FLEXIBLE PIPE BEDDING TO BE 10mm CLEAR STONE, RIGID PIPE TO BEDDING TO BE 20mm CLEAR STONE. ALL STONE BEDDING WRAPPED IN GEOTEXTILE FABRIC (TERRAFIX 270R OR APPROVED EQUAL)
- Q. TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL.
- R. JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT AS DIRECTED BY ENGINEER PRIOR TO PLACING NEW ASPHALT.

**4. WATERMAIN**

- A. THE CONTRACTOR SHALL INFORM THE TOWN OF COLLINGWOOD A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCING WORK.
- B. WATERMAIN MATERIAL TO BE DUCTILE IRON CLASS 52 OR PRESSURE CLASS 350 CEMENT LINED. TRACER WIRE SHALL BE INSTALLED ON ALL NON-CONDUCTIVE WATERMANS, HYDRANT LATERALS, AND WATER SERVICES EXCEPT WHERE SUCH WATER SERVICE PIPE IS OF COPPER MATERIAL.
- C. WATERMAIN TO BE BEDDED IN GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL AS PER OPSD-802.010
- D. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE WATERMAIN AND THE SANITARY/STORM SEWER IS TO BE 2.5m.
- E. A MINIMUM OF 0.5m VERTICAL CLEARANCE BETWEEN THE WATERMAIN AND ALL UTILITIES MUST BE KEPT WHILE STILL MAINTAINING A MINIMUM DEPTH OF COVER AT ALL TIMES.
- F. WATERMANS SHALL BE INSTALLED WITH A MINIMUM COVER OF 1.7m OVER THE MAINS.
- G. ALL FILL AREAS SHALL BE FILLED TO SUB-GRADE PRIOR TO INSTALLATION. FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY PRIOR TO THE INSTALLATION OF THE WATERMAIN.
- H. CONCRETE THRUST BLOCKS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS, END OF MAINS AND CONNECTIONS 100mm AND LARGER AS PER OPSD 1103.010 AND 1103.020. RESTRAINING DEVICES MAY BE REQUIRED IN ADDITION TO STANDARD CONCRETE THRUST BLOCKING WHERE SOIL CONDITIONS WARRANT.
- I. AS PER TOWN OF COLLINGWOOD'S TESTING AND COMMISSIONING STANDARDS, THE WATERMAIN PIPE WILL BE SUBJECT TO INDEPENDENT SWABING, DISINFECTION AND BACTERIOLOGICAL TESTING PRIOR TO ANY EXTENSION OR MODIFICATION.

**5. PAVEMENT DESIGN**

- A. THE PAVEMENT STRUCTURE SHALL CONSIST OF THE FOLLOWING (AS PER GEI CONSULTANTS GEOTECHNICAL INVESTIGATION REPORT DATED JUNE 2025) :

LIGHT DUTY PARKING	HEAVY DUTY PARKING
- 40 mm HL3	- 40 mm HL3
- 50 mm HL8	- 80 mm HL8
- 150 mm GRANULAR A BASE	- 150 mm GRANULAR A BASE
- 300 mm GRANULAR B	- 450 mm GRANULAR B

**6. SANITARY SEWERS**

- A. SANITARY LATERALS TO BE PVC SDR35 AND SANITARY SERVICE TO BE SDR 28 PVC AND GREEN IN COLOUR
- B. SEWERS SHALL BE CONSTRUCTED WITH BEDDINGS AS PER OPSD-802.010, (GRAN. 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD-802.030 OR 802.031 CLASS B (GRAN. 'A' BEDDING MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING.
- C. BACKFILL SHALL BE CONSIDERED AS STARTING 300mm ABOVE THE SANITARY SEWER. ALL MATERIALS BELOW THIS POINT SHALL BE CONSIDERED AS BEDDING.
- D. FRAMES AND COVERS SHOULD BE ADJUSTED TO FINAL GRADES WITH CAST-IN-PLACE CONCRETE.
- E. MAINTENANCE HOLE TOPS (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WHEN THE TOP LIFT OF ASPHALT IS PLACE. ALL ADJUSTMENT WILL BE ACCORDANCE WITH TOWN STANDARDS.
- F. ALL CONNECTIONS TO NEW SANITARY MAINS SHALL BE PRE-MANUFACTURED, FABRICATED TEES. CONNECTIONS TO EXISTING SANITARY SEWER SHALL BE MADE WITH APPROVED FACTORY MADE TEES OR INSERTA-TEES IN STRICT ACCORDANCE TO MANUFACTURERS GUIDELINES.

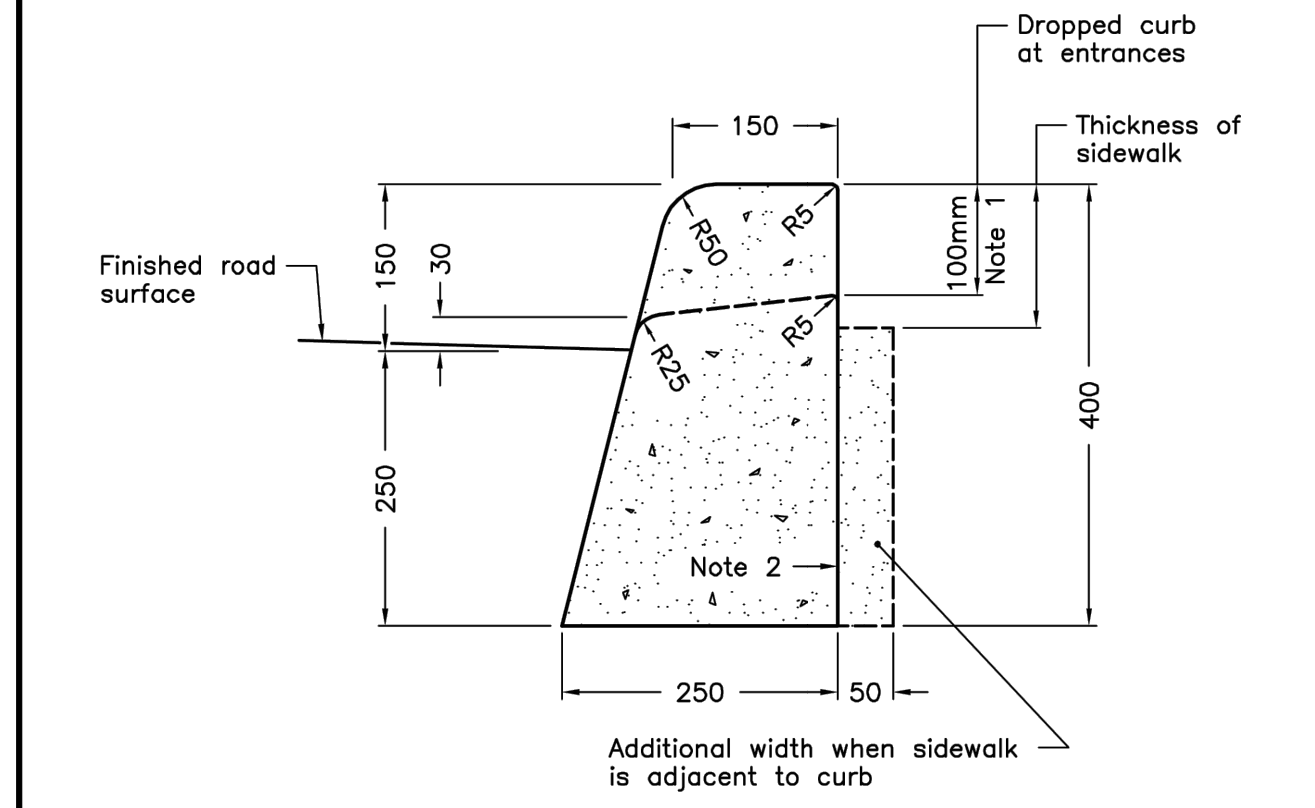
**7. STORM SEWERS**

- A. STORM SEWER TO BE PVC SDR35, CONCRETE CLASS III OR HDPE OPEN PROFILE BELL & SPIGOT WHILE STORM SEWER CONNECTION TO BE PVC SDR28 WHITE IN COLOUR.
- B. STORM SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD-802.010 (GRAN. 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD-802.031 OR 802.032 (GRAN. 'A' BEDDING MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING.
- C. PRECAST MANHOLES SHALL BE 1200mm DIAMETER UNLESS OTHERWISE SPECIFIED, AND SHALL BE IN ACCORDANCE WITH OPSD 701.010. FRAME AND COVER SHALL BE IN ACCORDANCE WITH OPSD 401.01.
- D. SINGLE CATCHBASINS TO BE 600mm SQUARE PRECAST CONCRETE TO OPSD 705.010. FRAME AND GRATE TO OPSD 401.01.
- E. PLACE ALL CATCHBASIN LATERALS AT 2% GRADE UNLESS OTHERWISE NOTED PIPE SIZE MINIMUM 250mm DIAMETER SINGLE.
- F. FOR ALL PVC PIPES CONNECTING INTO CONCRETE MH'S AND CB'S USE PVC MH ADAPTER COATED WITH SAND.
- G. ALL CONNECTIONS TO THE STORM MAIN SHALL BE MADE WITH A STORM MANHOLE OR APPROVED FACTORY TEE CONNECTION AS PER OPSD 708.01 OR 708.03.
- H. MANHOLE BENCHING SHALL CONFORM WITH OPSD 701.021.
- I. ALL MAINTENANCE HOLES ARE TO BE BENCH TO OBVERT.
- J. ALL SEWERS WITH LESS THAN 1.5m OF COVER MUST BE INSULATED.
- K. POLYVINYL CHLORIDE SDR35 OR BETTER BASED ON DEPTH OF THE PIPE SHALL CONFORM TO CSA B182.2, WITH BELL AND SPIGOT GASKETED JOINTS, COMPLYING WITH CSA B182.2, AND ALL FITTINGS AS PROVIDED BY THE CSA CERTIFIED MANUFACTURER.
- L. ALL TRENCHES ARE TO BE BACKFILLED WITH SUITABLE NATIVE MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT EXCEEDING 300mm IN THICKNESS. LOOSE MEASUREMENT, FOR THE FULL WIDTH OF THE TRENCH AND EACH LAYER SHALL BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR MAXIMUM DRY DENSITY
- O. MAINTENANCE HOLE STEPS SHALL BE SOLID ALUMINIUM IN ACCORDANCE WITH OPSD 405.020.
- P. MAINTENANCE HOLES ARE TO BE SET TO BASE COURSE GRADE AND THEN ADJUSTED TO FINAL GRADE PRIOR TO PLACEMENT OF TOP COURSE ASPHALT.

**WATER MAINS**

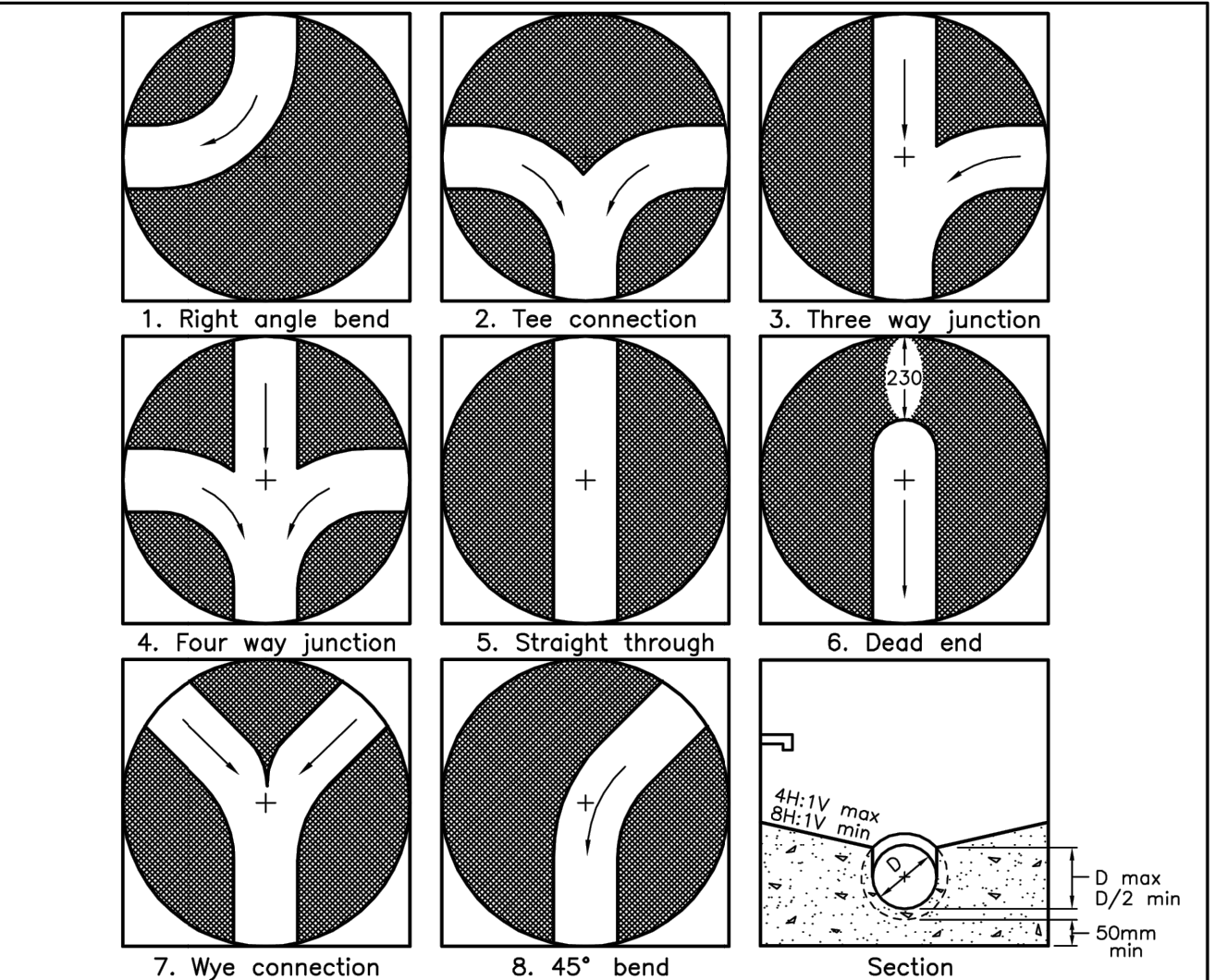
- A) BEDDING AND COVER TO OPSD-802.010, GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL.
- B) TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.
- C) THRUST BLOCKS TO OPSD-1103.010 AND 1103.020 WHERE SUITABLE SOILS ARE ENCOUNTERED.
- D) SERVICE CONNECTIONS TO OPSD-1104.010, 100 mm GRANULAR 'A' EMBEDMENT AND COVER OVER PIPE. TERMINATE AT PROPERTY LINE AT CENTER OF LOT C/W CURB STOP AND BOX, TESTING TAIL TO SURFACE ATTACHED TO A 38mm x 89mm MARKER POST PAINTED BLUE.
- E) HYDRANTS TO OPSD-1105.010. DRAIN PLUGS SHALL BE INSTALLED WHERE HIGH WATER TABLE IS ENCOUNTERED.
- F) BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- G) MINIMUM COVER ON WATER MAIN AND SERVICES TO BE 1.7 m.
- H) GATE VALVES, BENDS AND HYDRANT LEADS AND FITTINGS TO BE CONNECTED WITH ROMAX GRIP RING RESTRAINING CLAMP.
- I) CLEARANCE BETWEEN WATER MAINS AND SEWERS TO BE A MINIMUM OF 0.5m VERTICAL WHERE WATER MAIN IS BELOW SEWER OR 2.5 m MINIMUM HORIZONTAL SEPARATION. WHERE WATER MAIN IS ABOVE SEWER, THE MINIMUM SEPARATION TO BE 150 mm (BEDDING MATERIAL).
- J) SERVICE TO OPSD - 1104.010 AND SHALL BE DIRECT TAP.
- K) FOLLOWING TESTING, CONTRACTOR SHALL OPERATE EACH WATER SERVICE TO VERIFY FULL FLOW AND PRESSURE AT THE CURB STOP TO THE SATISFACTION OF THE ENGINEER.
- P) GENERAL INSTALLATION AND TESTING OF WATER MAIN AND APPURTENANCES TO BE IN ACCORDANCE WITH O.P.S.S. 701 AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS.
- Q) ALL WATERMAIN TESTING AND CHLORINATION WILL BE CONDUCTED BY CPU AT THE DEVELOPER'S COST. IT SHOULD BE NOTED THAT NEW WATERMANS ARE NOT TO BE CONNECTED TO EXISTING WATERMANS UNTIL BACTERIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED.

NO.	REVISION	APR'D	DATE	TOWN OF COLLINGWOOD	APR'D: EDH	DATE: JAN/03
1.	REVISED SERVICE LOCATION	EDH	JUL/04	NOTES - WATER MAINS	STD. No.	125
2.	REVISED WATERMAIN TESTING	EDH	APR/07			



**NOTES:**  
 1 When sidewalk is continuously adjacent, the dropped curb at entrances shall be reduced to 75mm.  
 2 For slipforming procedure a 5% batter is acceptable.  
 A Treatment at entrances shall be according to OPSD 351.010.  
 B Outlet treatment shall be according to the OPSD 610 Series.  
 C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.  
 D All dimensions are in millimetres unless otherwise shown.

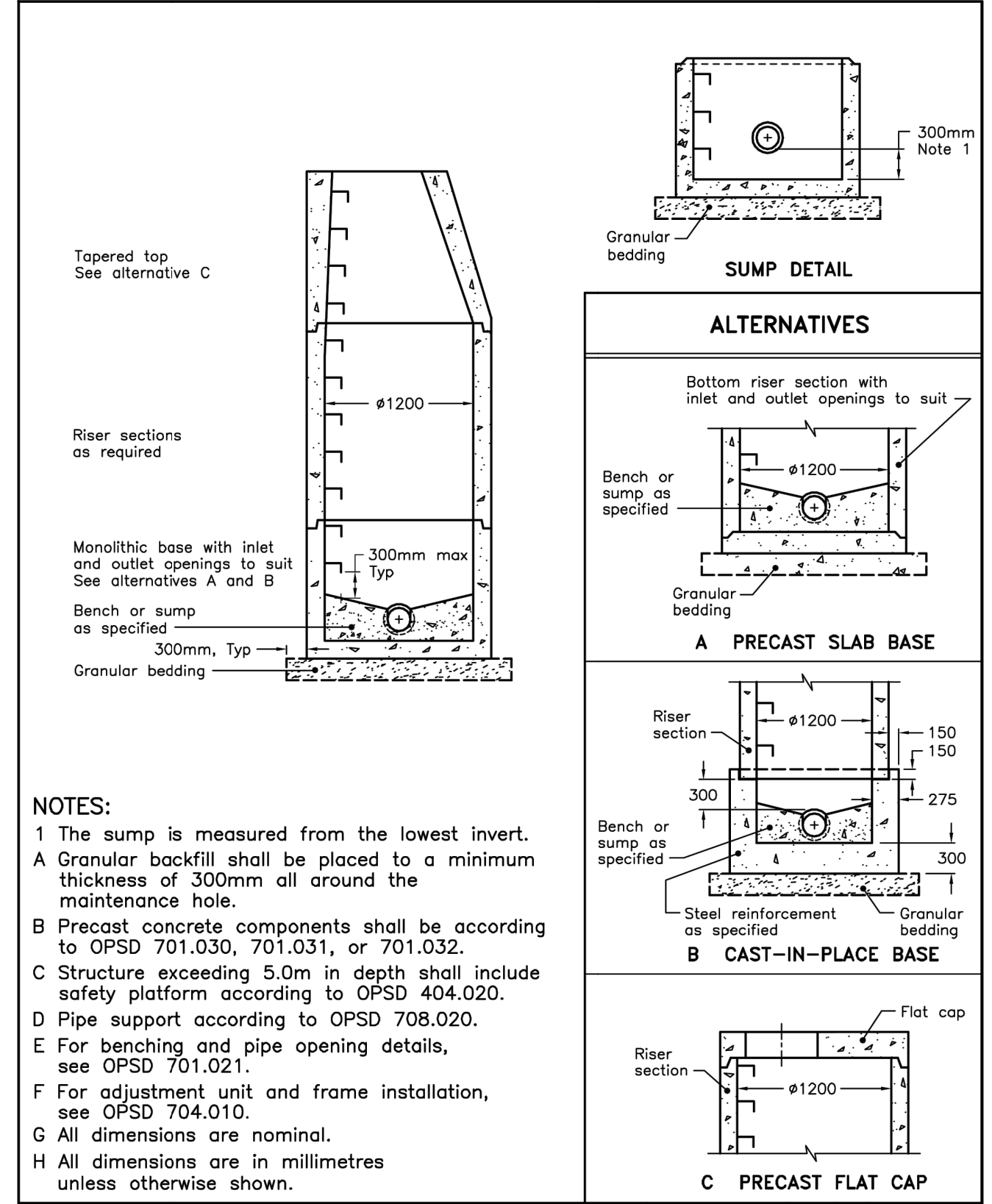
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 2
<b>CONCRETE BARRIER CURB</b>		
OPSD 600.110		



Maintenance Hole Diameter	MAXIMUM SIZE HOLE IN THE WALL IN PRECAST RISER SECTIONS				Inlet Hole	Outlet Hole
	No. 1-4	No. 5 and 6	No. 7	No. 8		
1200	700	860	780	700	860	
1500	860	1220	960	860	1170	
1800	1220	1485	1220	1220	1485	
2400	1485	2020	1760	1485	2020	
3000	1930	2450	2300	1930	2450	
3600	2470	3085	2730	2470	3085	

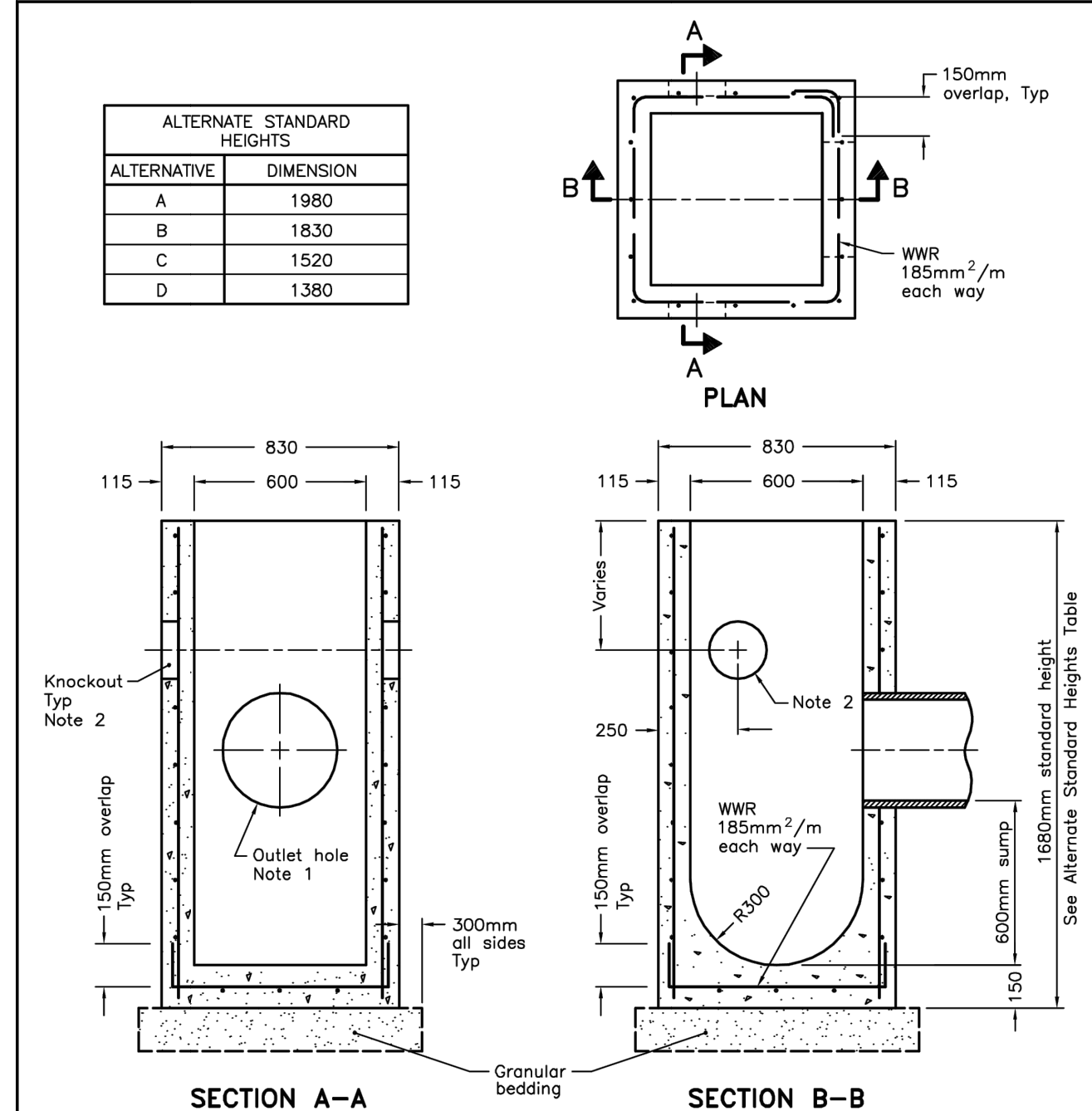
**NOTES:**  
 1 Slopes shall be maintained from the outlet hole opening for top of benching.  
 A Concrete for benching shall be 30MPa.  
 B When benching is hand-finished, it shall be given wood float finish, channel shall be given steel trowel finish.  
 C Benchings slope and height shall be as specified on drawings.  
 D When specified, maintenance holes that are 1200mm in diameter with a uniform channel for 200 or 250mm pipe may be pre-benched at the manufacturer with standardized benching slope and channel orientation.  
 E All dimensions are nominal.  
 F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 4
<b>MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES</b>		
OPSD 701.021		



**NOTES:**  
 1 The sump is measured from the lowest invert.  
 A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.  
 B Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.  
 C Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.  
 D Pipe support according to OPSD 708.020.  
 E For benching and pipe opening details, see OPSD 701.021.  
 F For adjustment unit and frame installation, see OPSD 704.010.  
 G All dimensions are nominal.  
 H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 5
<b>PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER</b>		
OPSD 701.010		



**NOTES:**  
 1 Outlet hole size 525mm diameter maximum, location as required.  
 2 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.  
 3 Centre reinforcing in base slab and walls 420mm.  
 A Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.  
 C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.  
 D Pipe support shall be according to OPSD 708.020.  
 E All dimensions are nominal.  
 F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 3
<b>PRECAST CONCRETE CATCH BASIN 600x600mm</b>		
OPSD 705.010		

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APPROVAL

NO.	REVISION NOTE	DATE	BY
2.	REVISED AS PER SUBMISSION 2 COMMENTS	03/06/26	JM
1.	REVISED AS PER SUBMISSION 1 COMMENTS	11/07/25	JM

**BENCHMARK**  
 AS PER SURVEY BY RUDY MAK SURVEYING LTD. DATED MAY 28,2025  
 SITE BENCHMARK#1 IS TOP OF IB LOCATED AT THE SOUTHEAST CORNER OF THE PROPERTY HAVING AN ELEVATION OF 179.35.  
 SITE BENCHMARK#2 IS TOP OF IB LOCATED AT THE NORTHWEST CORNER OF LOT 13 HAVING AN ELEVATION OF 179.37.

720 SOLUTIONS  
 29 AND 45 BIRCH STREET  
 TOWN OF COLLINGWOOD

**NOTES AND DETAILS**

DESIGNED BY: AMC  
 DRAWN BY: KV  
 CHECKED BY: MWD

HORIZ SCALE: N/A  
 VERT SCALE: N/A  
 DATE: JULY 2025

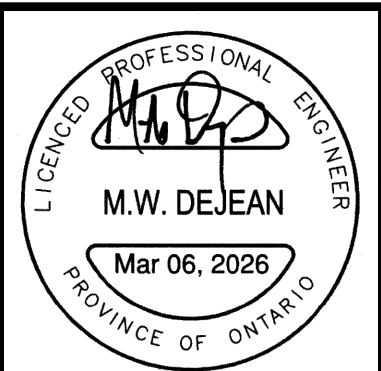
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 DRAWING #: ND-1  
 REVISION #: 2

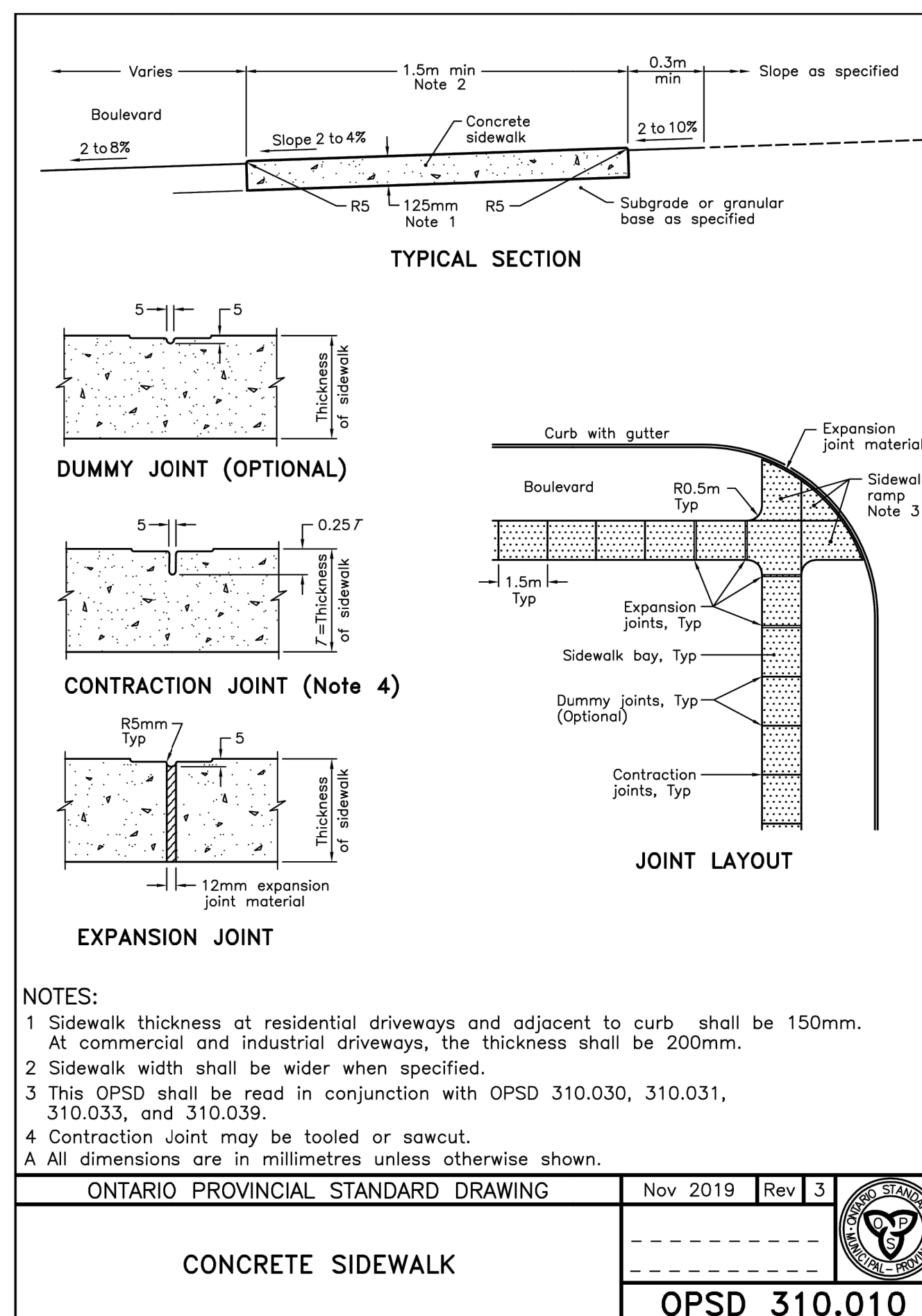
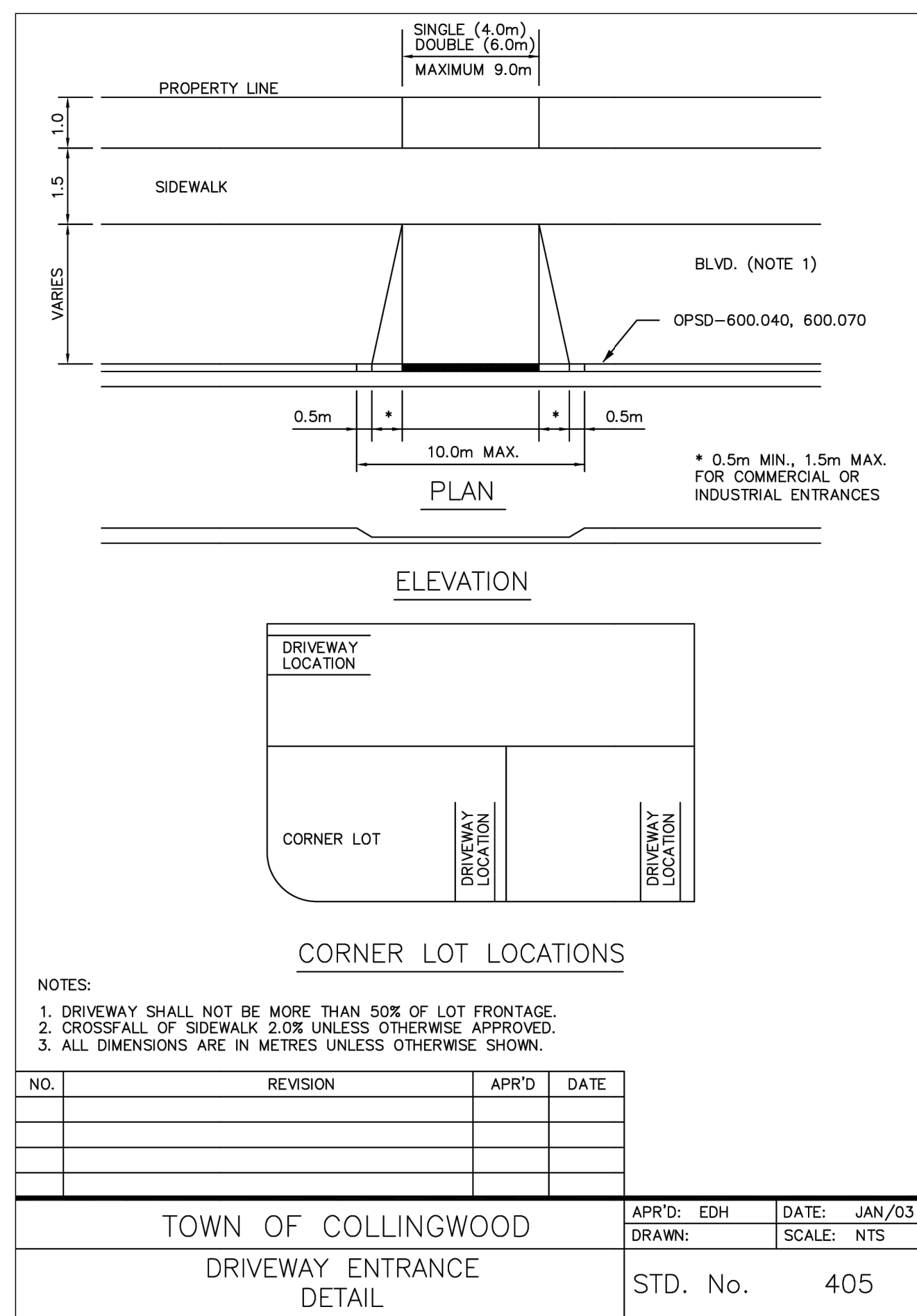
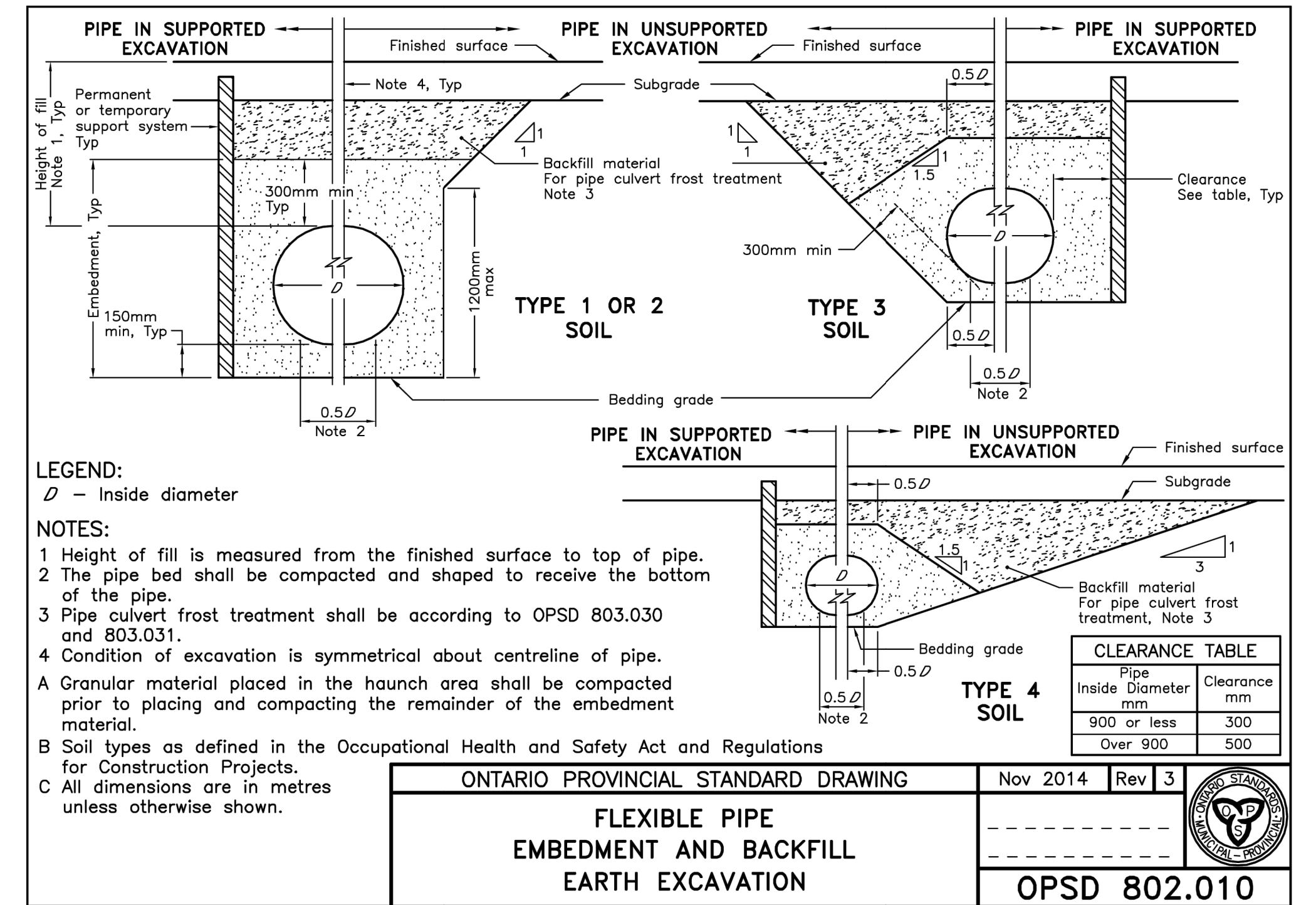
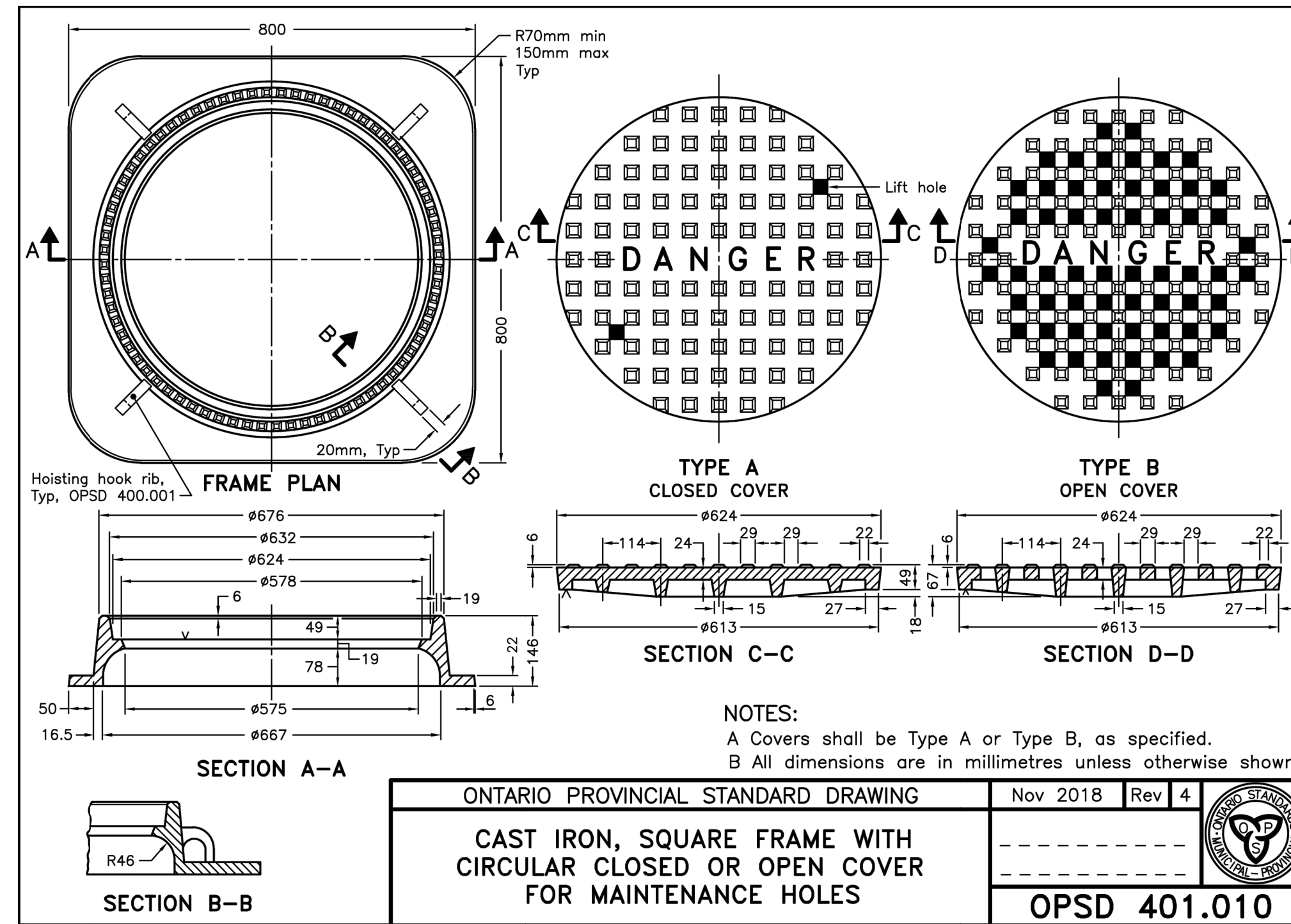
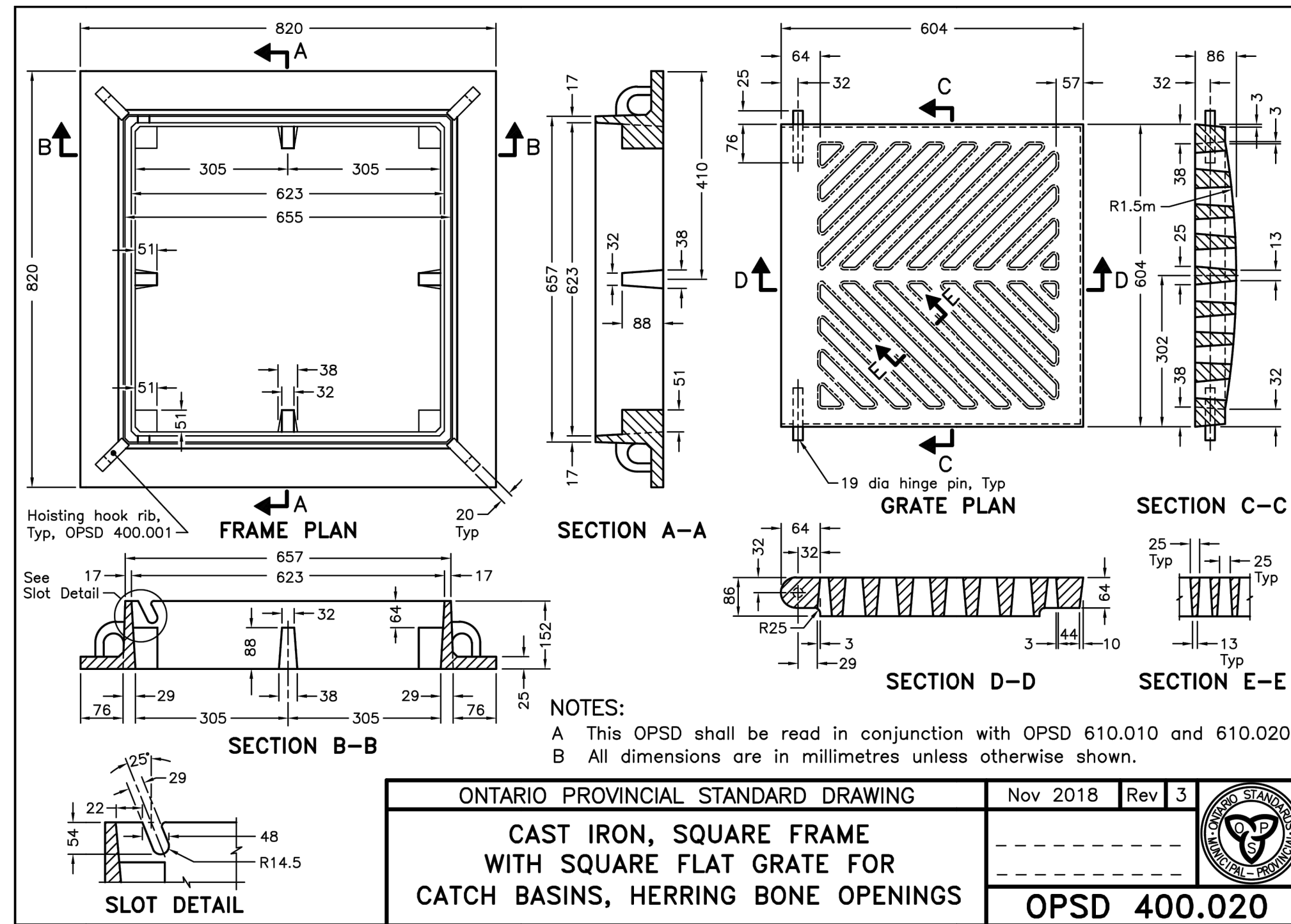
**PEARSON ENGINEERING**  
 PEARSONENG.COM PH. 705.719.4785

DESIGNED BY: AMC  
 DRAWN BY: KV  
 CHECKED BY: MWD

HORIZ SCALE: N/A  
 VERT SCALE: N/A  
 DATE: JULY 2025

PROJECT #: 24242  
 DRAWING #: ND-1  
 REVISION #: 2





APPROVAL

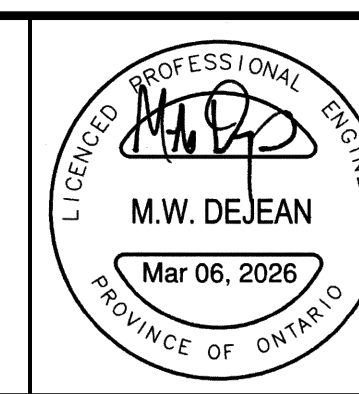
NO.	REVISION	DATE	BY
2.	REVISED AS PER SUBMISSION 2 COMMENTS	03/06/26	JM
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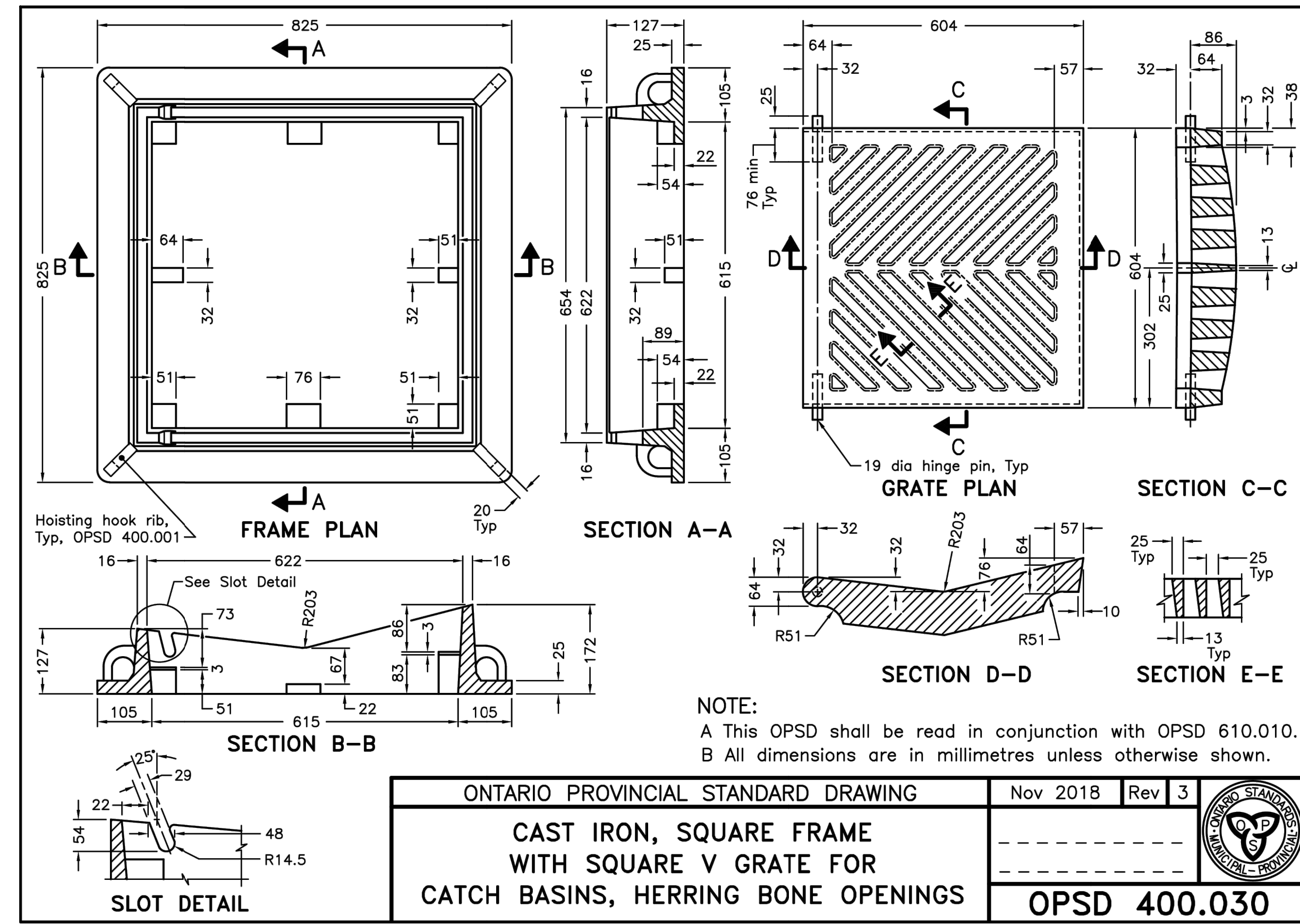


720 SOLUTIONS  
29 AND 45 BIRCH STREET  
TOWN OF COLLINGWOOD

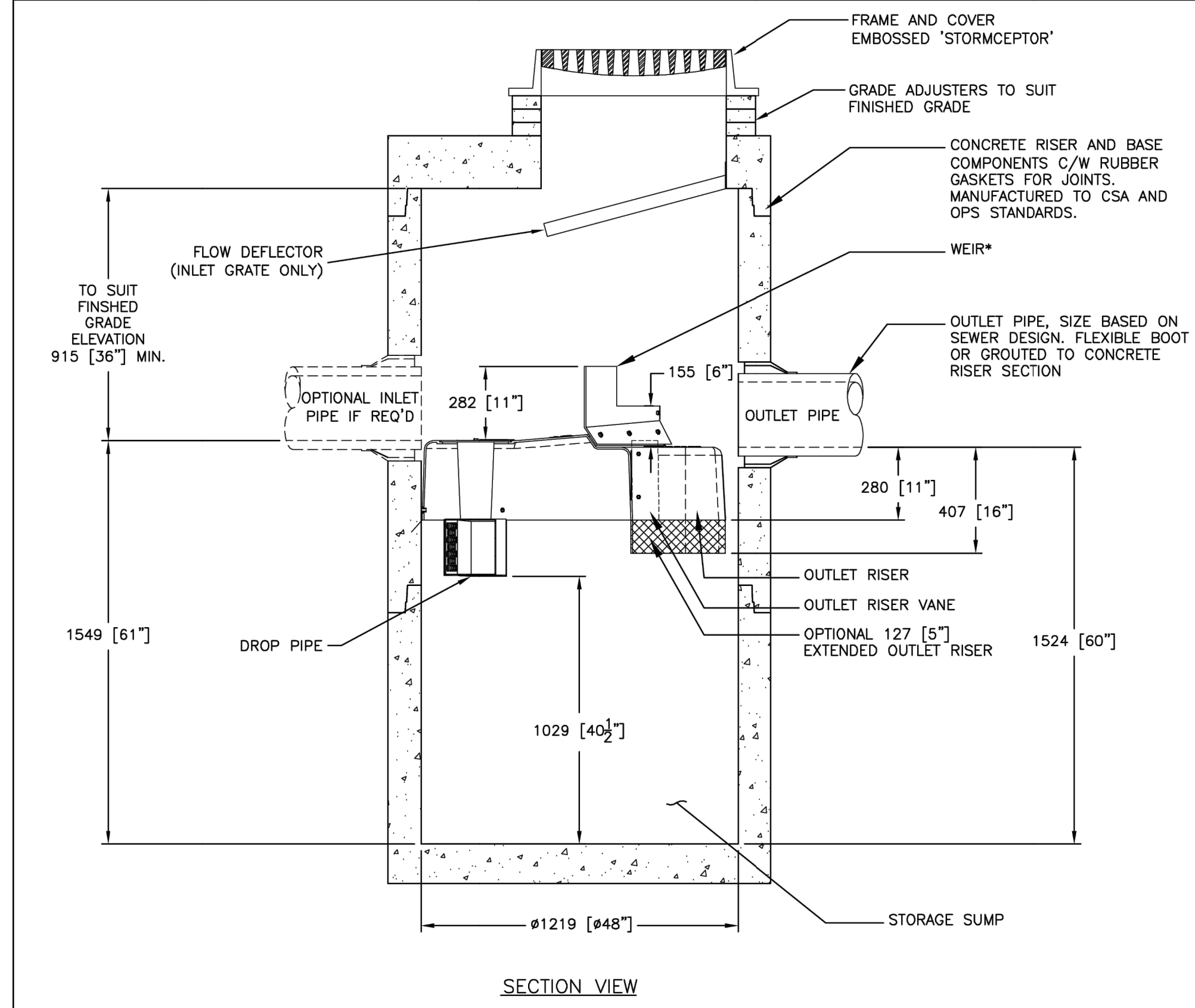
NOTES AND DETAILS

DESIGNED BY	AMC	HORIZ SCALE	N/A	PROJECT #	24242
DRAWN BY	KV	VERT SCALE	N/A	DRAWING #	ND-2
CHECKED BY	MWD	DATE	JULY 2025	REVISION #	2





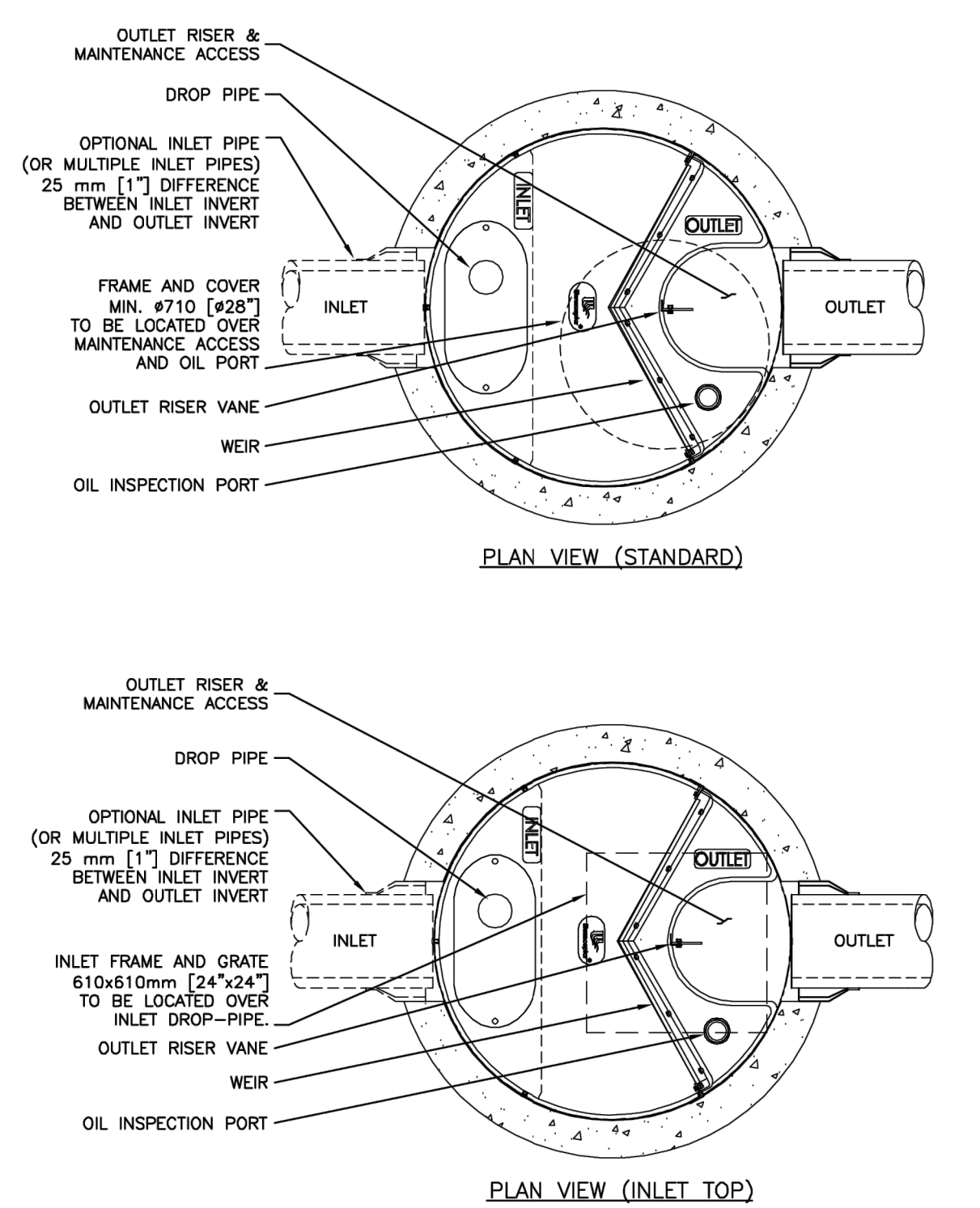
ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2018	Rev 3
CAST IRON, SQUARE FRAME WITH SQUARE V GRATE FOR CATCH BASINS, HERRING BONE OPENINGS		OPD 400.030	



**GENERAL NOTES:**  
\* MAXIMUM SURFACE LOADING RATE (SLR) INTO LOWER CHAMBER THROUGH DROP PIPE IS 1135 L/min/m<sup>2</sup> (27.9 gpm/ft<sup>2</sup>) FOR STORMCEPTOR EF4 AND 535 L/min/m<sup>2</sup> (13.1 gpm/ft<sup>2</sup>) FOR STORMCEPTOR EFO4 (OIL CAPTURE CONFIGURATION). WEIR HEIGHT IS 150 mm (6 INCH) FOR EFO4.  
1. ALL DIMENSIONS INDICATED ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SPECIFIED.  
2. STORMCEPTOR STRUCTURE INLET AND OUTLET PIPE SIZE AND ORIENTATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.  
3. UNLESS OTHERWISE NOTED, BYPASS INFRASTRUCTURE, SUCH AS ALL UPSTREAM DIVERSION STRUCTURES, CONNECTING STRUCTURES, OR PIPE CONDUITS CONNECTING TO COMPLETE THE STORMCEPTOR SYSTEM SHALL BE PROVIDED AND ADDRESSED SEPARATELY.  
4. DRAWING FOR INFORMATION PURPOSES ONLY. REFER TO ENGINEER'S SITE/UTILITY PLAN FOR STRUCTURE ORIENTATION.  
5. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

**INSTALLATION NOTES**  
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.  
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED). LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).  
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT THE DEVICE FROM CONSTRUCTION-RELATED EROSION RUNOFF.  
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT THE DEVICE FROM CONSTRUCTION-RELATED EROSION RUNOFF.  
E. DEVICE ACTIVATION, BY CONTRACTOR, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE STORMCEPTOR UNIT IS CLEAN AND FREE OF DEBRIS.

**STANDARD DETAIL  
NOT FOR CONSTRUCTION**



FOR SITE SPECIFIC DRAWINGS PLEASE CONTACT YOUR LOCAL STORMCEPTOR REPRESENTATIVE. SITE SPECIFIC DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME. SOME FIELD REVISIONS TO THE SYSTEM LOCATION OR CONNECTION PIPING MAY BE NECESSARY BASED ON AVAILABLE SPACE OR SITE CONFIGURATION REVISIONS. ELEVATIONS SHOULD BE MAINTAINED EXCEPT WHERE NOTED ON BYPASS STRUCTURE (IF REQUIRED).

SITE SPECIFIC DATA REQUIREMENTS					
STORMCEPTOR MODEL	EFO4				
STRUCTURE ID	*				
HYDROCARBON STORAGE REQ'D (L)	*				
WATER QUALITY FLOW RATE (L/s)	*				
PEAK FLOW RATE (L/s)	*				
RETURN PERIOD OF PEAK FLOW (yrs)	*				
DRAINAGE AREA (HA)	*				
DRAINAGE AREA IMPERVIOUSNESS (%)	*				
PIPE DATA:	I.E.	MATL	DIA	SLOPE %	HGL
INLET #1	*	*	*	*	*
INLET #2	*	*	*	*	*
OUTLET	*	*	*	*	*
* PER ENGINEER OF RECORD					

**Stormceptor EF**

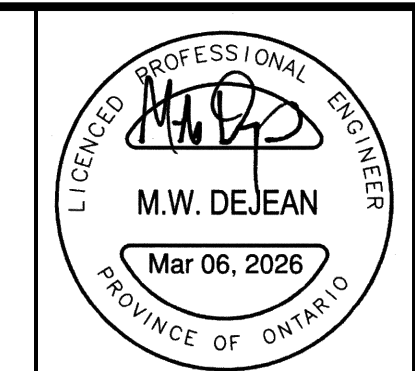
DATE: 10/13/2017  
DESIGNED: JSK  
DRAWN: JSK  
CHECKED: BSF  
APPROVED: SP  
PROJECT NO.: EFO4  
SEQUENCE NO.: \*  
SHEET: 1 OF 1

C:\Users\jmoore\AppData\Local\Temp\AcpPublish\_21940\24242-ND.dwg Loyouth\ND-3 Plotted Mar 06, 2026 @ 2:29pm by jmoore @ PEARSON ENGINEERING LTD.

APPROVAL

NO.	REVISION NOTE	DATE	BY
2.	REVISED AS PER SUBMISSION 2 COMMENTS	03/06/26	JM
1.	REVISED AS PER SUBMISSION 1 COMMENTS	11/07/25	JM

**BENCHMARK**  
AS PER SURVEY BY RUDY MAK SURVEYING LTD. DATED MAY 28, 2025  
SITE BENCHMARK#1 IS TOP OF IB LOCATED AT THE SOUTHEAST CORNER OF THE PROPERTY HAVING AN ELEVATION OF 179.35.  
SITE BENCHMARK#2 IS TOP OF IB LOCATED AT THE NORTHWEST CORNER OF LOT 13 HAVING AN ELEVATION OF 179.37.



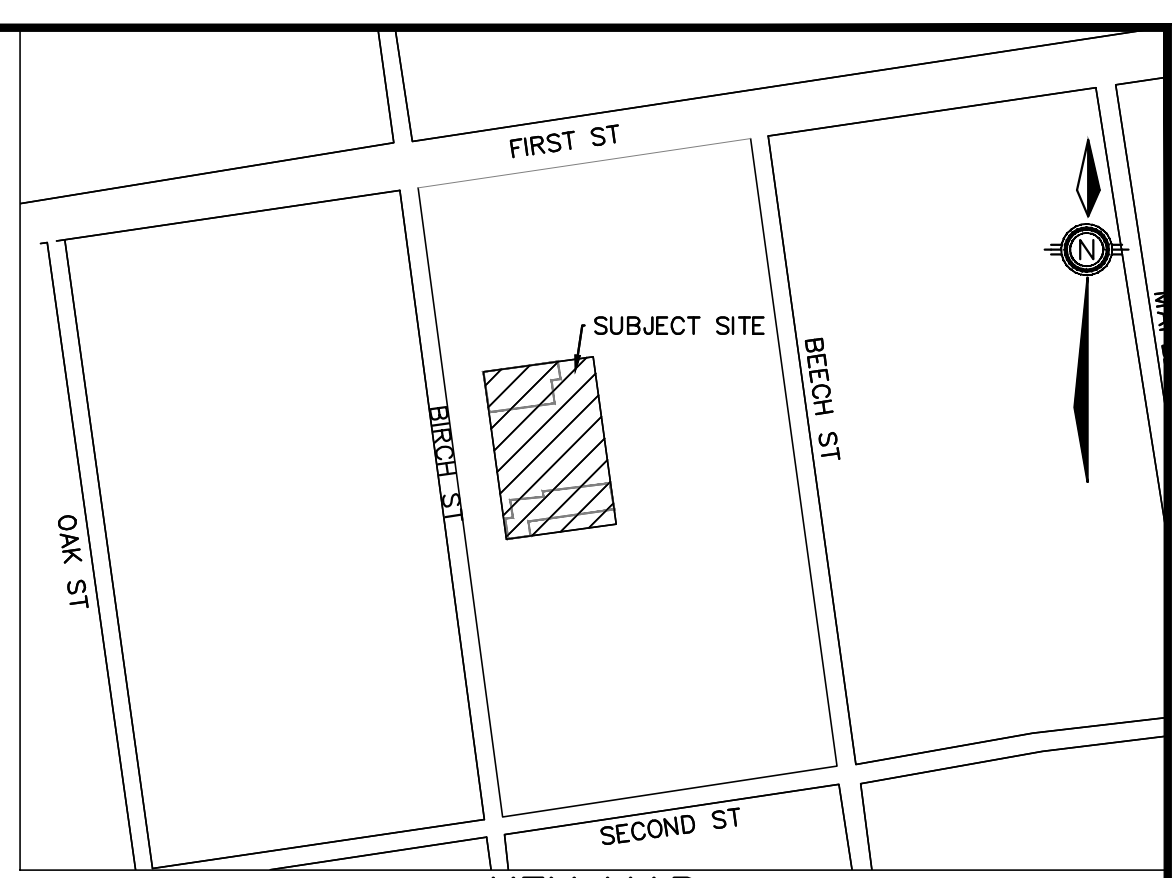
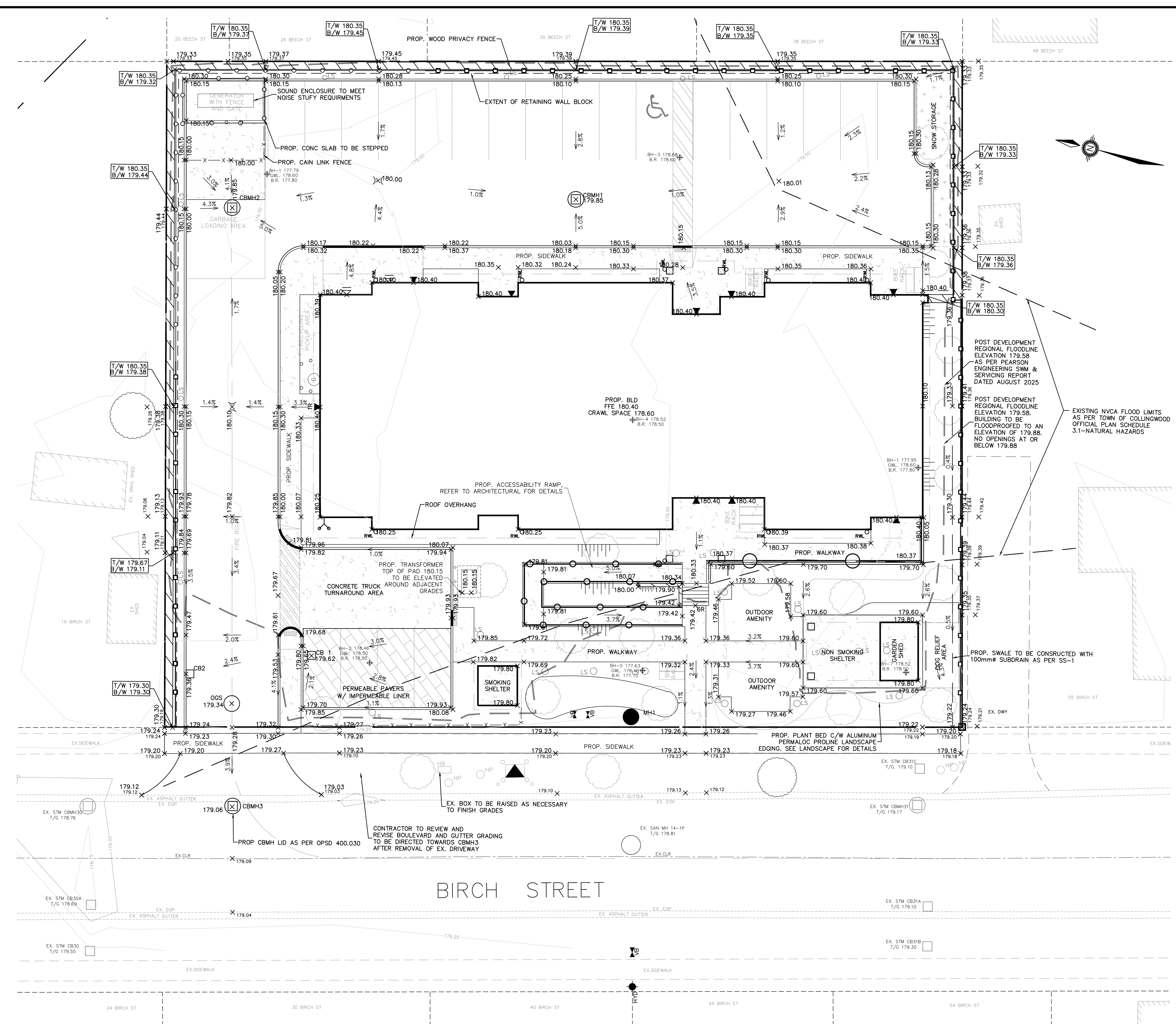
720 SOLUTIONS  
29 AND 45 BIRCH STREET  
TOWN OF COLLINGWOOD

NOTES AND DETAILS

**PEARSON ENGINEERING**  
PEARSONENG.COM PH. 705.719.4785

DESIGNED BY	AMC	HORIZ SCALE	N/A	PROJECT #	24242
DRAWN BY	KV	VERT SCALE	N/A	DRAWING #	ND-3
CHECKED BY	MWD	DATE	JULY 2025	REVISION #	2

P:\Autodesk Vault\Working Folders\24242 - SG\Layout\24242 - SG.dwg Layout:SG-1 Plotted: Mar 06, 2026 @ 3:16pm by: mrore @ PEARSON ENGINEERING LTD.



**KEY MAP NTS**

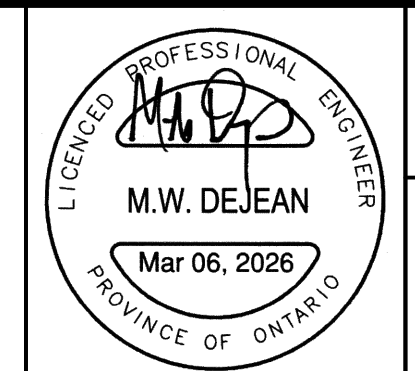
**LEGEND**

- STM CB PROPOSED CATCH BASIN
  - EX. CB EXISTING CATCH BASIN
  - STM DCB PROPOSED DOUBLE CATCH BASIN
  - STM MH PROPOSED STORM MANHOLE
  - EX. STM MH EXISTING STORM MANHOLE
  - SAN MH PROPOSED SANITARY MANHOLE
  - EX. SAN MH EXISTING SANITARY MANHOLE
  - ◆ HYD. PROPOSED FIRE HYDRANT
  - ◆ EX. HYD. EXISTING FIRE HYDRANT
  - ▽ VB WATER VALVE
  - × 254.63 PROPOSED ELEVATION
  - × 254.09 EXISTING ELEVATION
  - 1.5% PROPOSED DIRECTION AND GRADE
  - BACK OF CURB
  - EDGE OF PAVEMENT
  - PROP. CURB CUT LOCATION
  - EX. CURB CUT LOCATION
  - ( ) HIGH POINT
  - PROPERTY LINE
  - - - LIMIT OF WORK
  - PERSON DOOR
  - OVERHEAD DOOR
  - ▨ RETAINING WALL (BY OTHERS)
  - BOREHOLE/MONITORING WELL LOCATION AS PER GEL CONSULTANTS CANADA LTD. GEOTECHNICAL INVESTIGATION REPORT DATED AUGUST 2025
  - GWL - GROUND WATER LEVEL
  - B.R. - BEDROCK ELEVATION
  - - - EX. OAK ST. CANAL FLOODPLAIN LIMITS
  - POST DEVELOPMENT REGIONAL FLOODLINE
  - PRIVACY FENCE
  - ACOUSTICAL FENCE
  - - - 1.5m HIGH ORNAMENTAL FENCE
  - RWLO ROOF LEADER
  - CONCRETE
  - ▨ PERMEABLE PAVERS WITH IMPERMEABLE LINER
  - PROPOSED GAS METER (BY OTHERS)
  - LS LIGHT STANDARD REFER TO ELECTRICAL DRAWINGS
  - ▨ PROPOSED TACTILE PLATE
- SEE S1 & S2 FOR RETAINING WALL DETAILS  
T/W AND B/W SHOWS GRADES ADJACENT TO WALL AND BASE OF WALL AT FINISHED GRADE ELEVATIONS.  
\* THIS DOES NOT INCLUDE BURIED DEPTH OF WALL.

APPROVAL

NO.	REVISION NOTE	DATE	BY
2.	REVISED AS PER SUBMISSION 2 COMMENTS	03/06/26	JM
1.	REVISED AS PER SUBMISSION 1 COMMENTS	11/07/25	JM

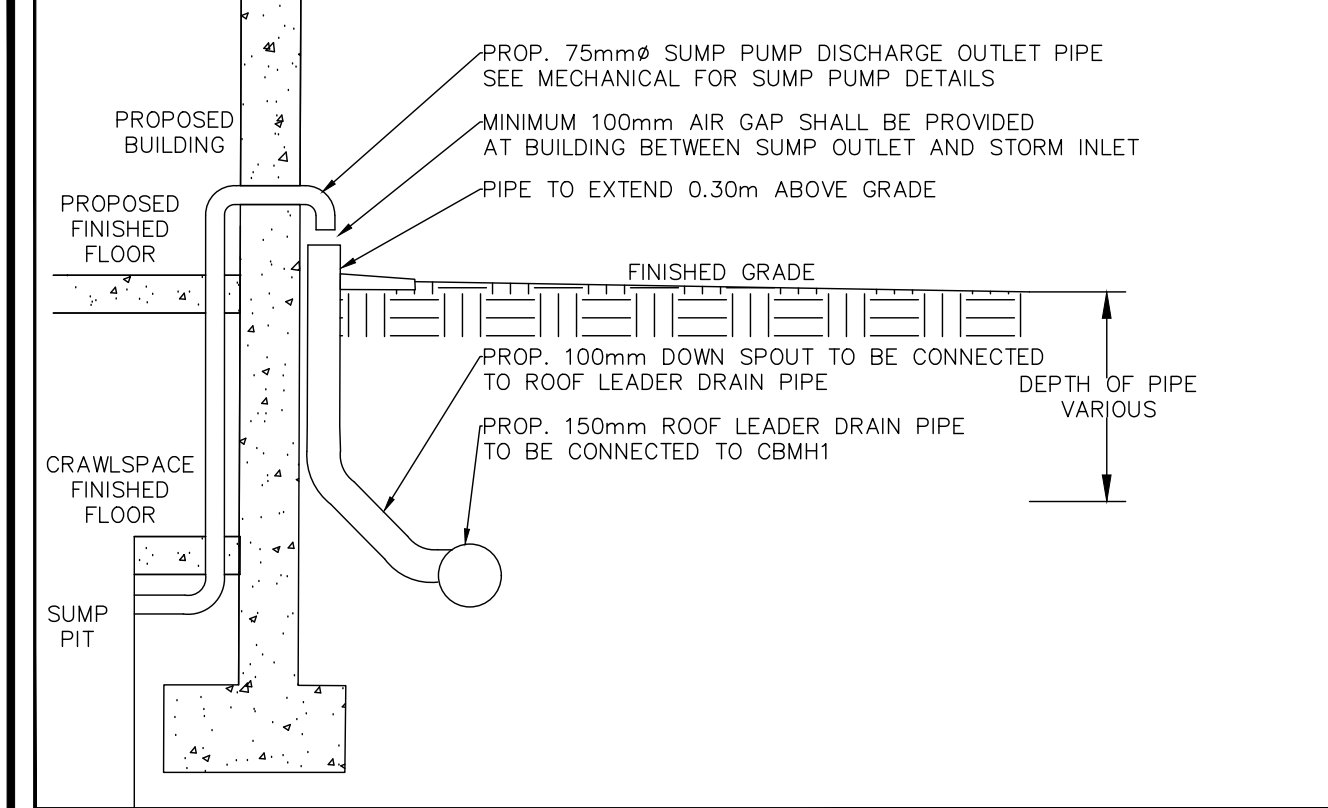
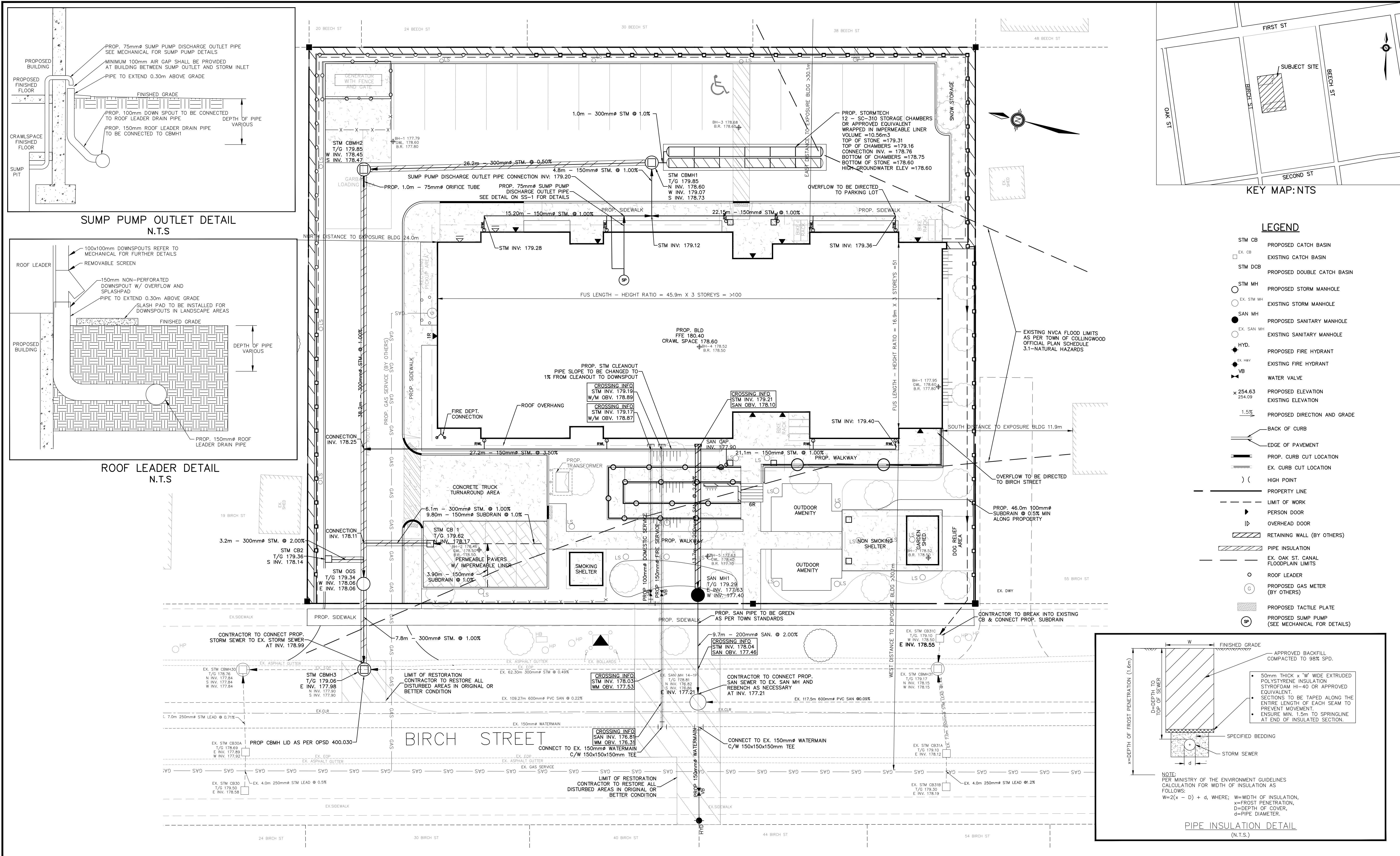
**BENCHMARK**  
 AS PER SURVEY BY RUDY MAK SURVEYING LTD. DATED MAY 28, 2025  
 SITE BENCHMARK#1 IS TOP OF IB LOCATED AT THE SOUTHEAST CORNER OF THE PROPERTY HAVING AN ELEVATION OF 179.35.  
 SITE BENCHMARK#2 IS TOP OF IB LOCATED AT THE NORTHWEST CORNER OF LOT 13 HAVING AN ELEVATION OF 179.37.



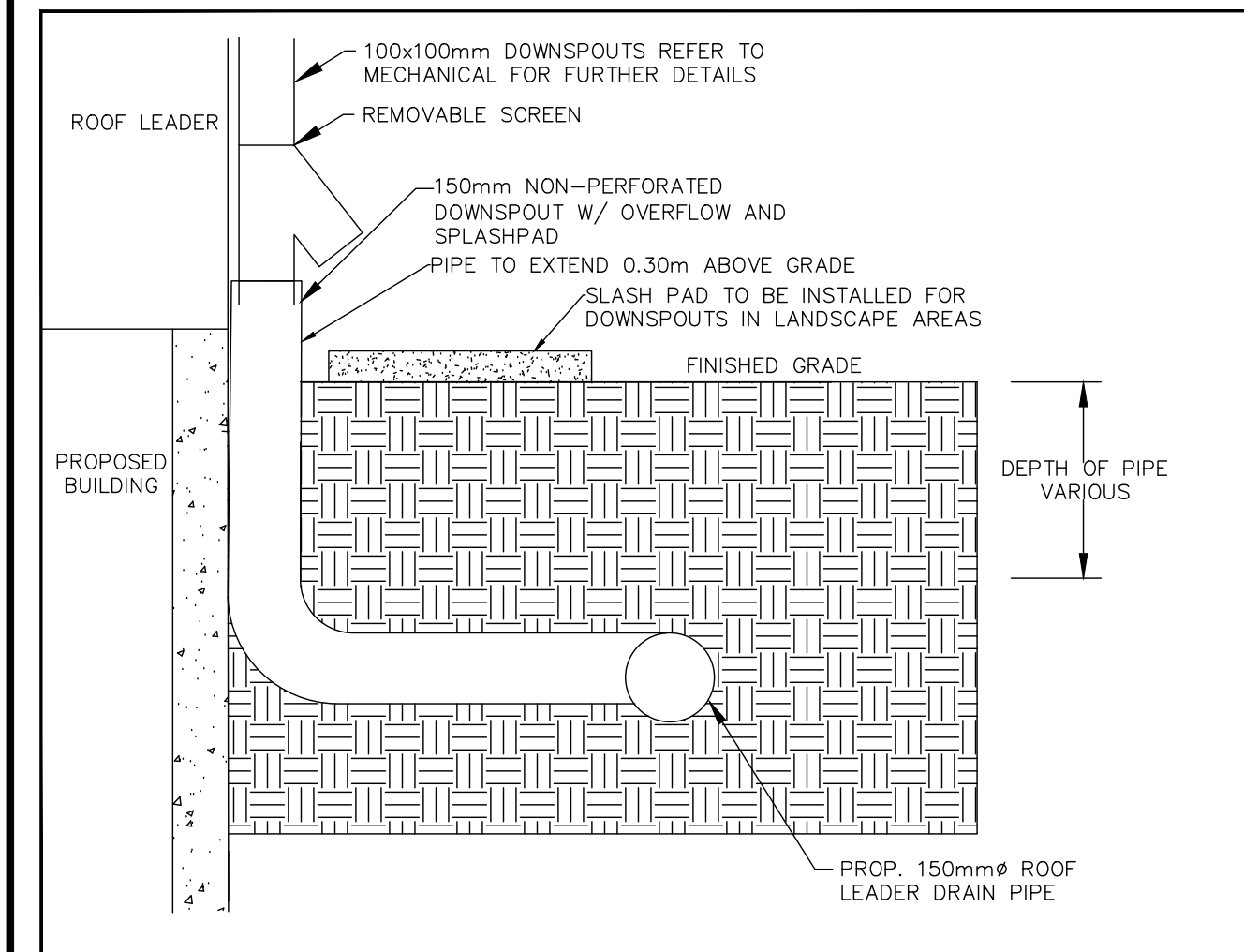
720 SOLUTIONS  
 29 AND 45 BIRCH STREET  
 TOWN OF COLLINGWOOD

**SITE GRADING PLAN**

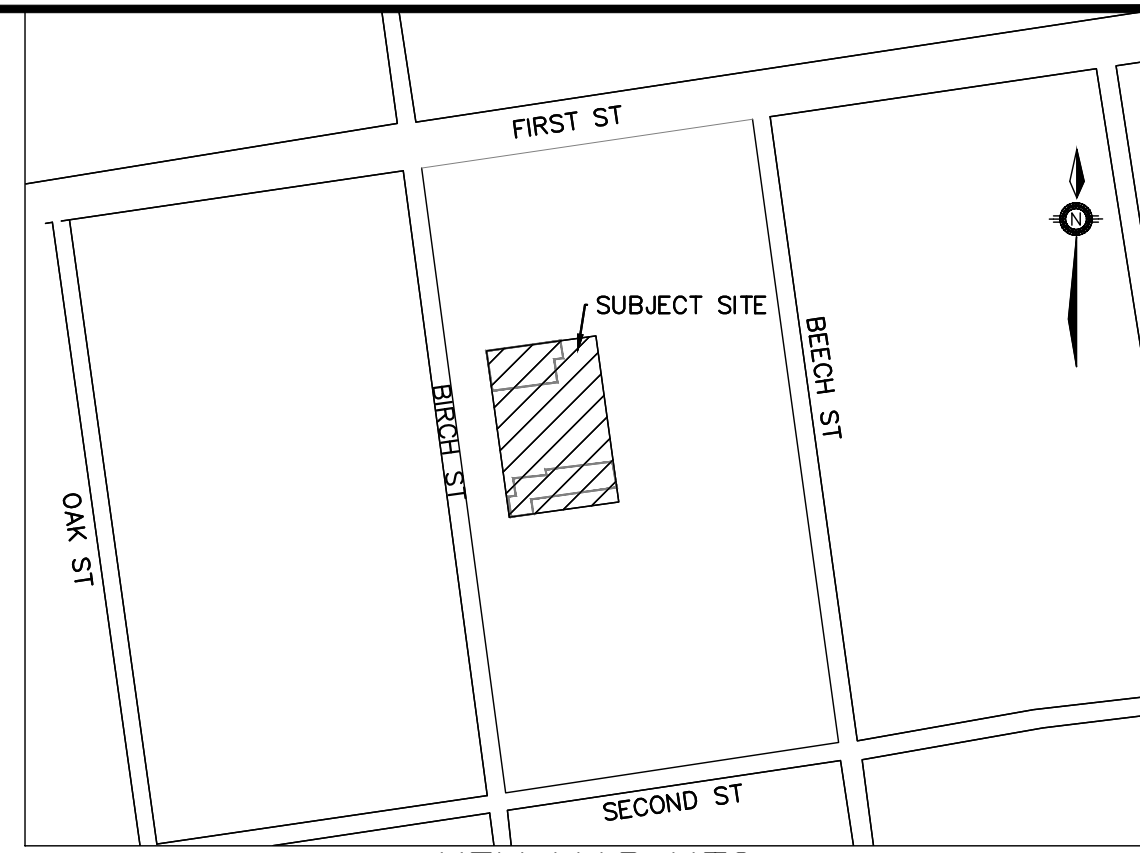
DESIGNED BY	AMC	HORIZ SCALE	1:150	PROJECT #	24242
DRAWN BY	JM	VERT SCALE	N/A	DRAWING #	SG-1
CHECKED BY	MWD	DATE	JULY 2025	REVISION #	2



SUMP PUMP OUTLET DETAIL N.T.S.



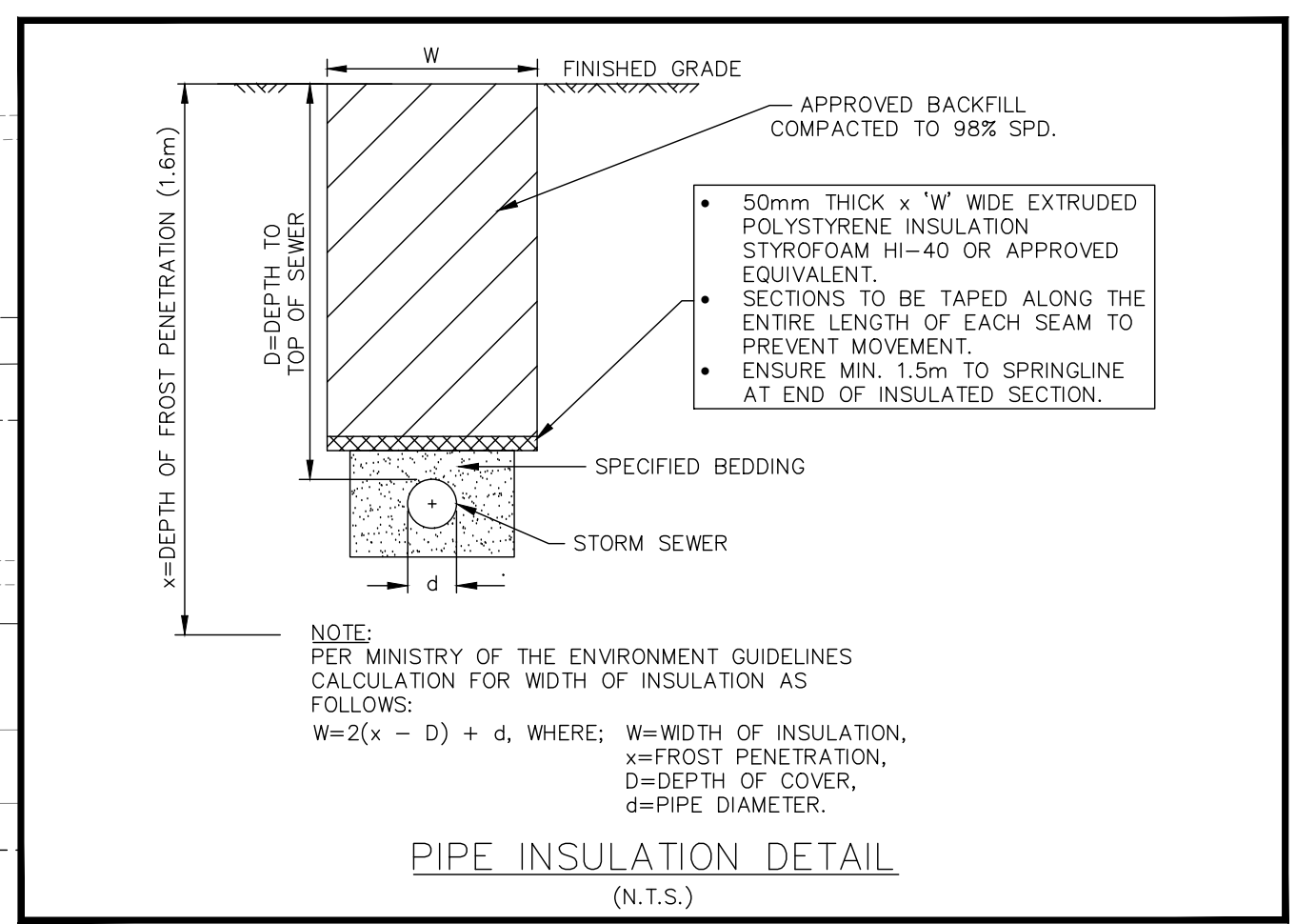
ROOF LEADER DETAIL N.T.S.



KEY MAP: NTS

LEGEND

- STM CB PROPOSED CATCH BASIN
- EX. CB EXISTING CATCH BASIN
- STM DCB PROPOSED DOUBLE CATCH BASIN
- STM MH PROPOSED STORM MANHOLE
- EX. STM MH EXISTING STORM MANHOLE
- SAN MH PROPOSED SANITARY MANHOLE
- EX. SAN MH EXISTING SANITARY MANHOLE
- HYD. PROPOSED FIRE HYDRANT
- EX. HYD. EXISTING FIRE HYDRANT
- WB WATER VALVE
- 254.63 PROPOSED ELEVATION
- 254.09 EXISTING ELEVATION
- 1.5% PROPOSED DIRECTION AND GRADE
- BACK OF CURB
- EDGE OF PAVEMENT
- PROP. CURB CUT LOCATION
- EX. CURB CUT LOCATION
- HP HIGH POINT
- PROPERTY LINE
- LIMIT OF WORK
- PERSON DOOR
- OVERHEAD DOOR
- RETAINING WALL (BY OTHERS)
- PIPE INSULATION
- EX. OAK ST. CANAL FLOODPLAIN LIMITS
- ROOF LEADER
- PROPOSED GAS METER (BY OTHERS)
- PROPOSED TACTILE PLATE
- PROPOSED SUMP PUMP (SEE MECHANICAL FOR DETAILS)

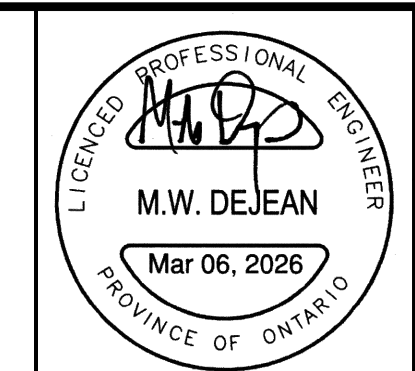


PIPE INSULATION DETAIL (N.T.S.)

APPROVAL

NO.	REVISION NOTE	DATE	BY
2.	REVISED AS PER SUBMISSION 2 COMMENTS	03/06/26	JM
1.	REVISED AS PER SUBMISSION 1 COMMENTS	11/07/25	JM

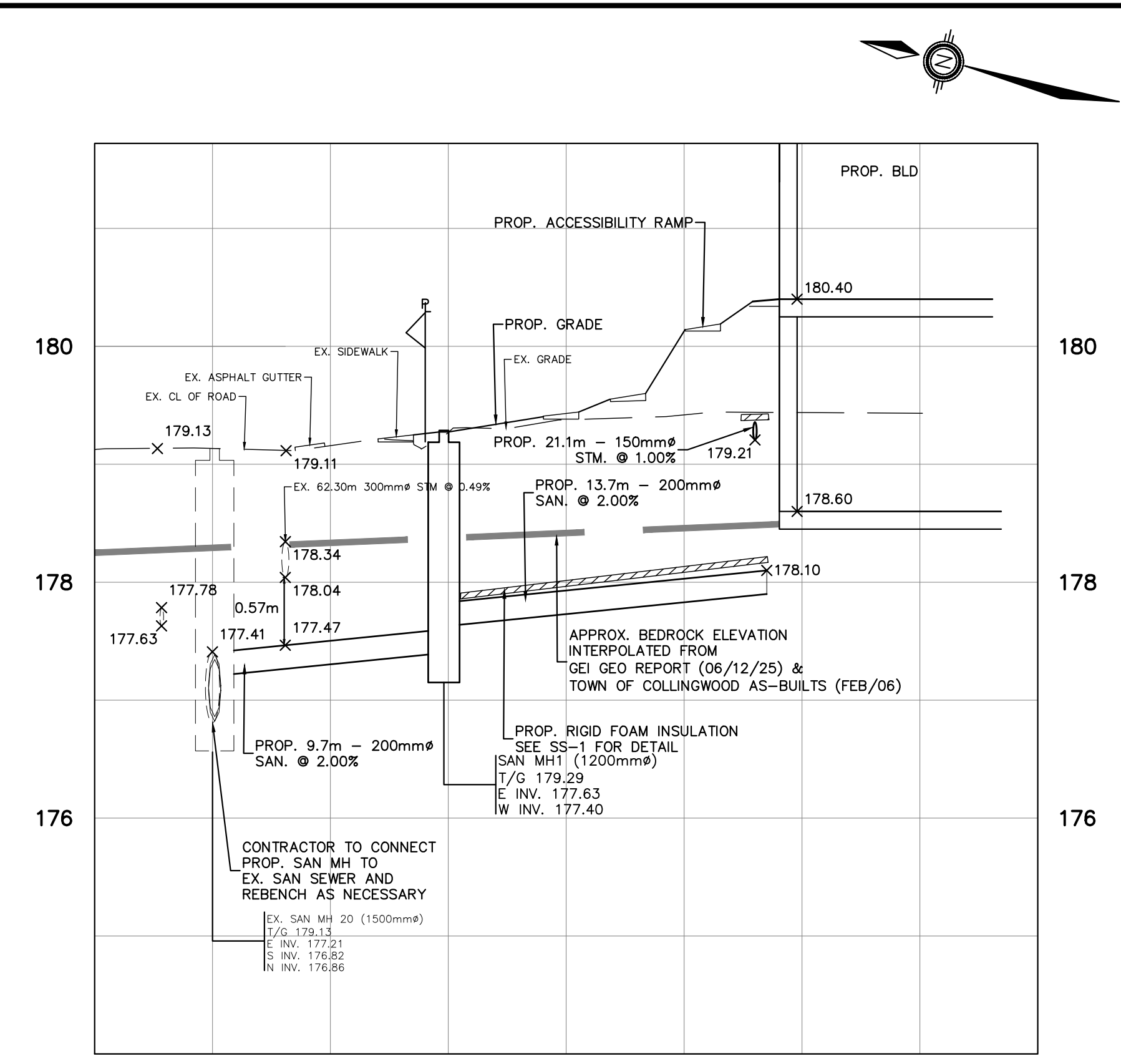
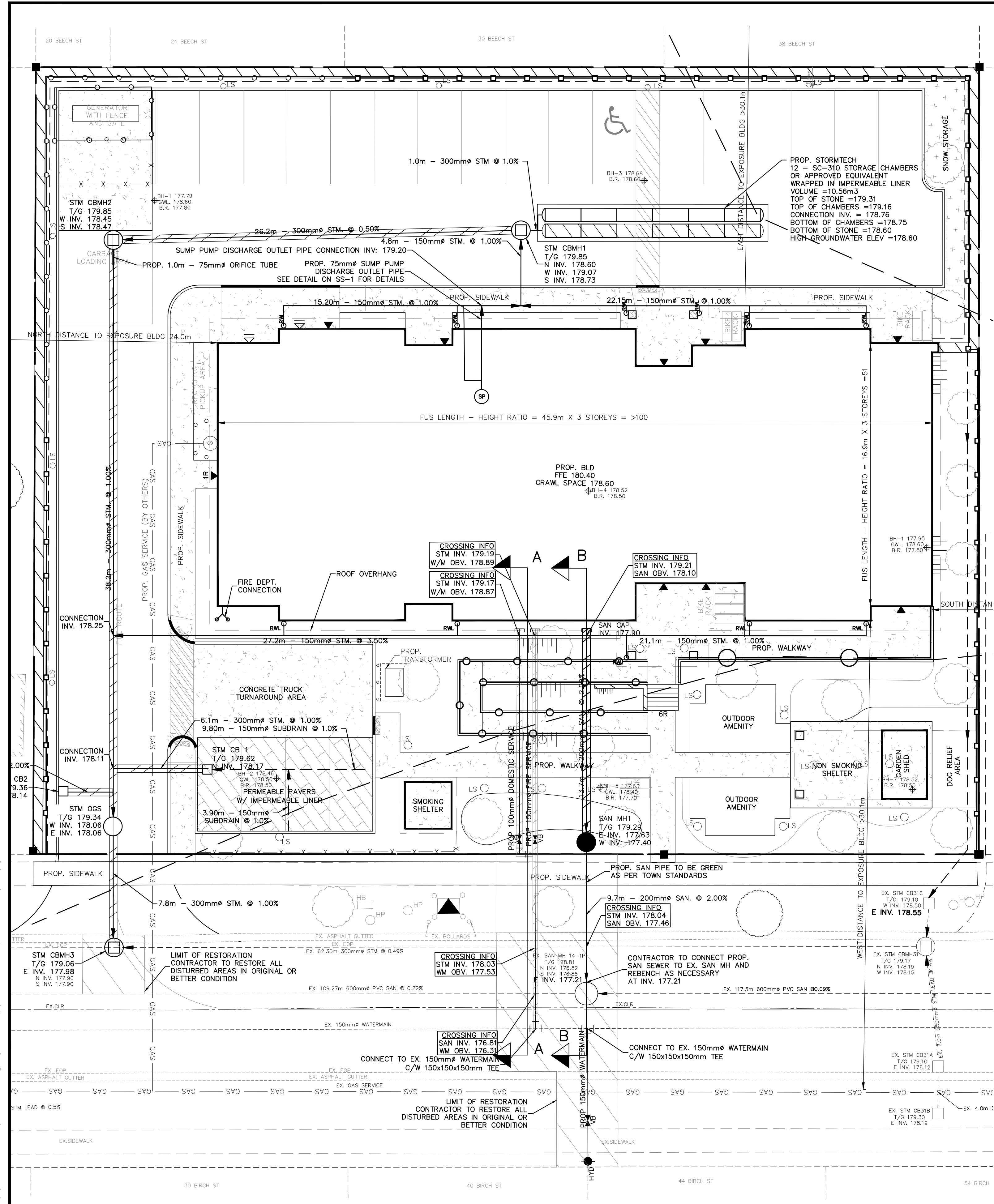
**BENCHMARK**  
 AS PER SURVEY BY RUDY MAK SURVEYING LTD. DATED MAY 28, 2025  
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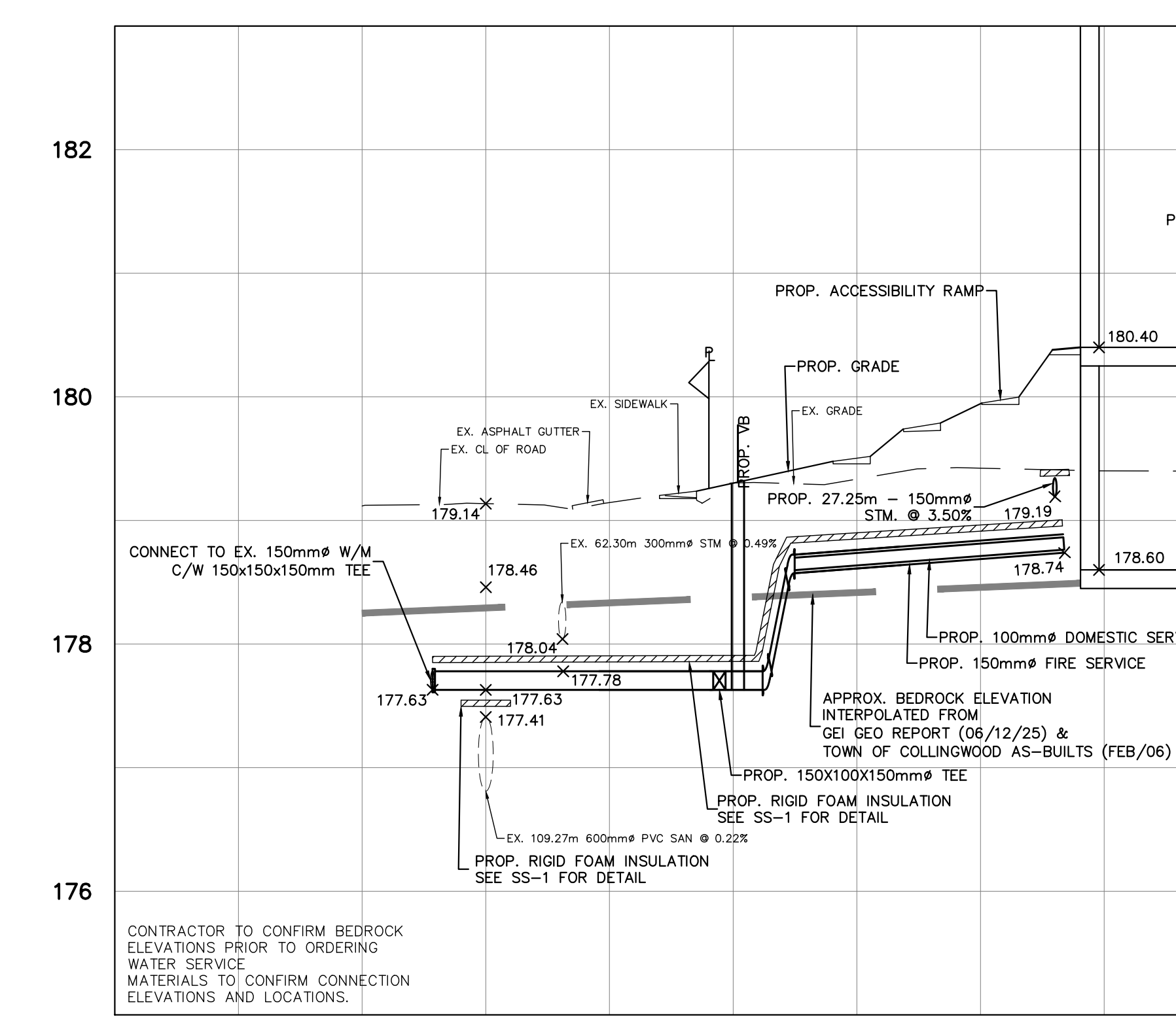
720 SOLUTIONS  
 29 AND 45 BIRCH STREET  
 TOWN OF COLLINGWOOD  
**SITE SERVICING PLAN**

 PEARSONENGINEERING.COM PH. 705.719.4785	DESIGNED BY	AMC	HORIZ SCALE	1:150	PROJECT #	24242
	DRAWN BY	JM	VERT SCALE	N/A	DRAWING #	SS-1
	CHECKED BY	MWD	DATE	JULY 2025	REVISION #	2

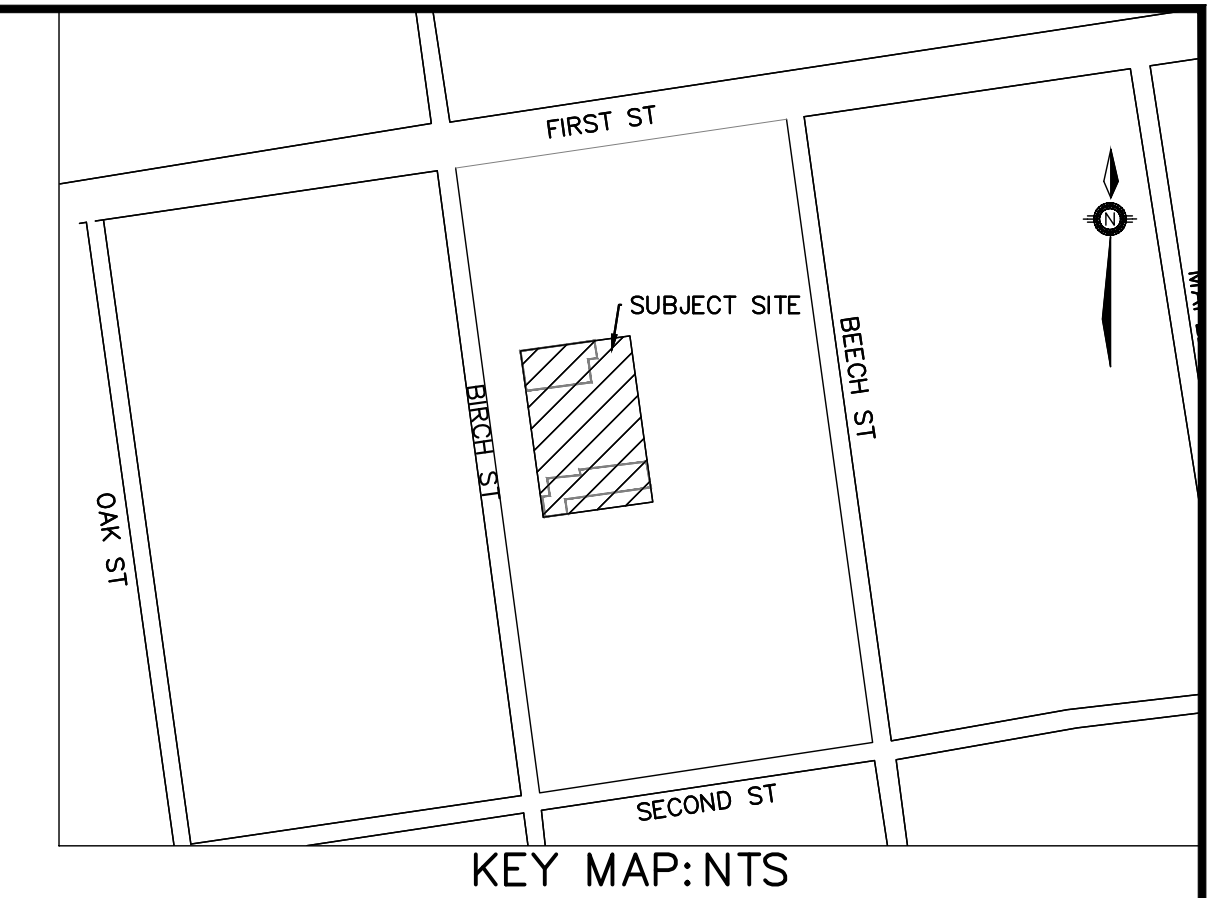
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PROP. SANITARY CONNECTION  
SECTION B-B  
SCALE H - 1:200  
SCALE V - 1:50



PROP. WATERMAIN CONNECTION  
SECTION A-A  
SCALE H - 1:200  
SCALE V - 1:50



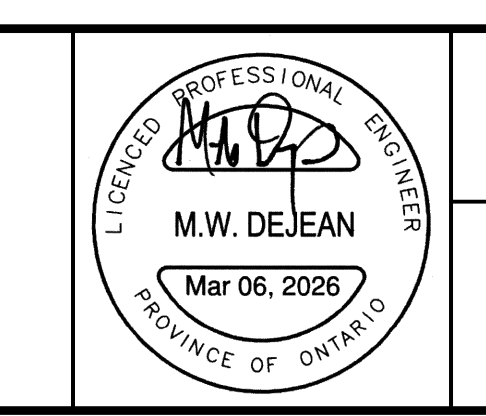
- LEGEND**
- STM CB PROPOSED CATCH BASIN
  - EX CB EXISTING CATCH BASIN
  - STM DCB PROPOSED DOUBLE CATCH BASIN
  - STM MH PROPOSED STORM MANHOLE
  - EX STM MH EXISTING STORM MANHOLE
  - SAN MH PROPOSED SANITARY MANHOLE
  - EX SAN MH EXISTING SANITARY MANHOLE
  - HYD. PROPOSED FIRE HYDRANT
  - EX HYD EXISTING FIRE HYDRANT
  - VB WATER VALVE
  - x 254.63 PROPOSED ELEVATION
  - 254.09 EXISTING ELEVATION
  - 1.5% PROPOSED DIRECTION AND GRADE
  - BACK OF CURB
  - EDGE OF PAVEMENT
  - PROP. CURB CUT LOCATION
  - EX. CURB CUT LOCATION
  - ( ) HIGH POINT
  - PROPERTY LINE
  - - - LIMIT OF WORK
  - PERSON DOOR
  - OVERHEAD DOOR
  - RETAINING WALL (BY OTHERS)
  - SIAMESE CONNECTION
  - PIPE INSULATION
  - EX. OAK ST. CANAL FLOODPLAIN LIMITS
  - ROOF LEADER
  - PROPOSED GAS METER (BY OTHERS)
  - PROPOSED TACTILE PLATE

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APPROVAL	

NO.	REVISION NOTE	DATE	BY
2.	REVISED AS PER SUBMISSION 2 COMMENTS	03/06/26	JM
1.	REVISED AS PER SUBMISSION 1 COMMENTS	11/07/25	JM

**BENCHMARK**  
AS PER SURVEY BY RUDY MAK SURVEYING LTD. DATED MAY 28, 2025  
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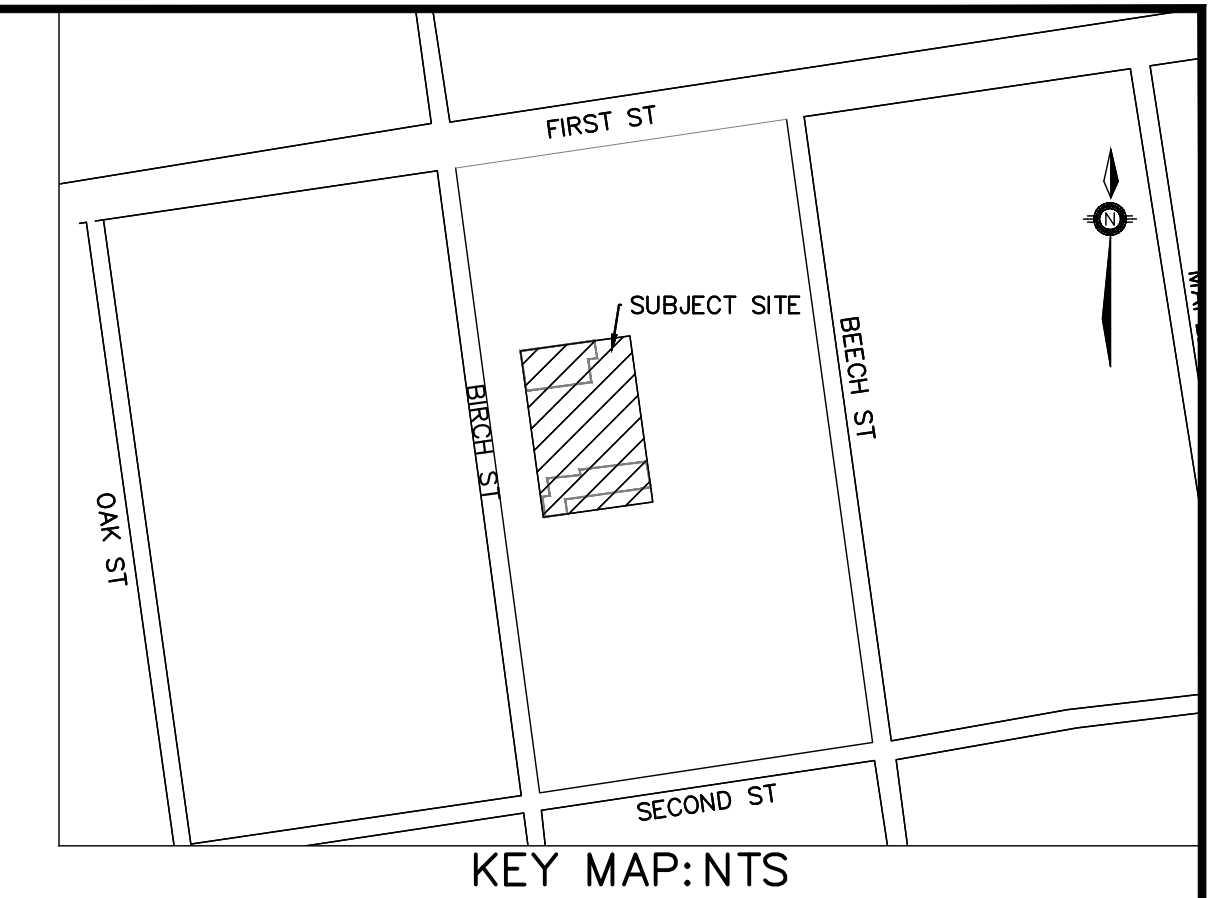
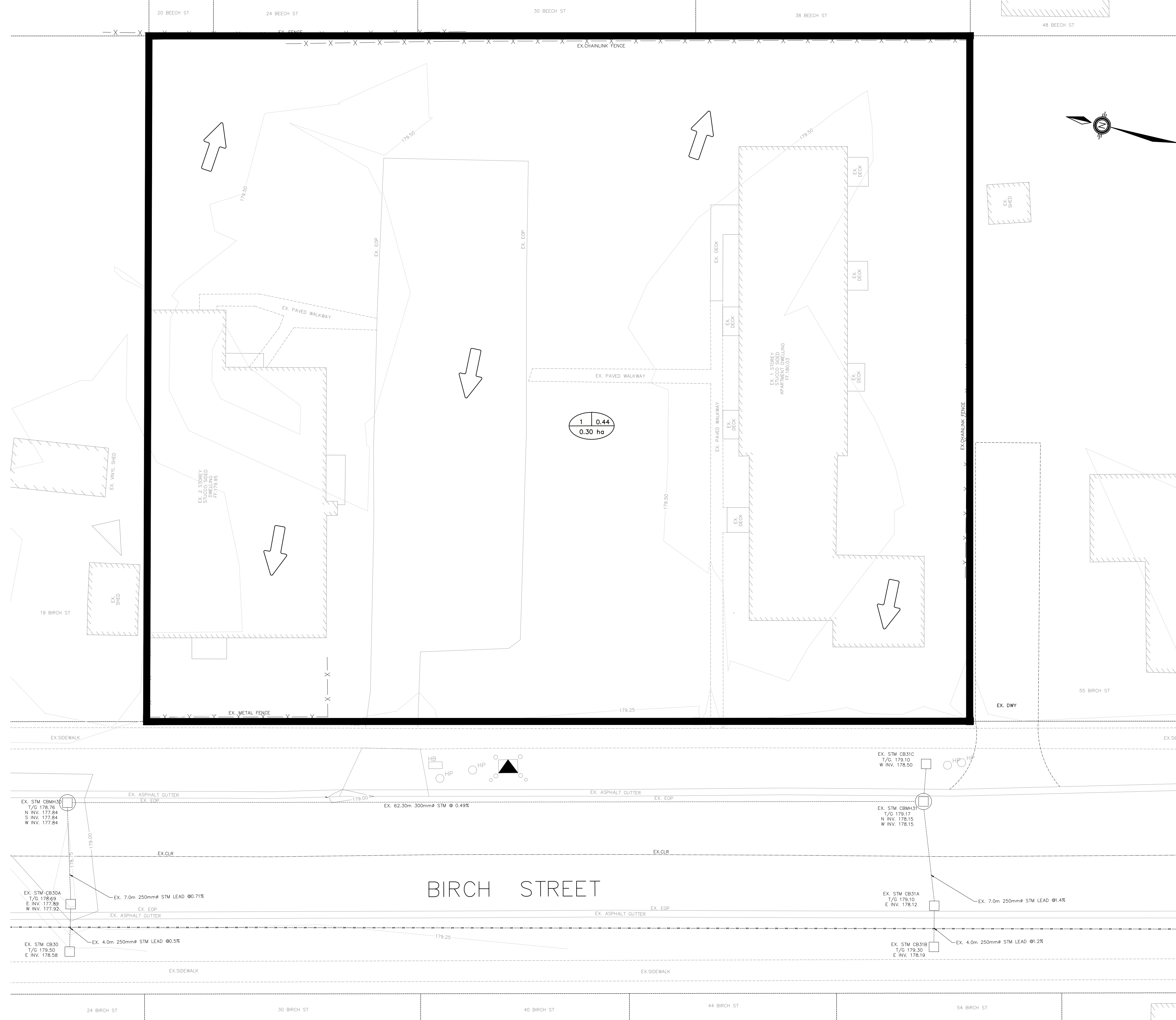


720 SOLUTIONS  
29 AND 45 BIRCH STREET  
TOWN OF COLLINGWOOD

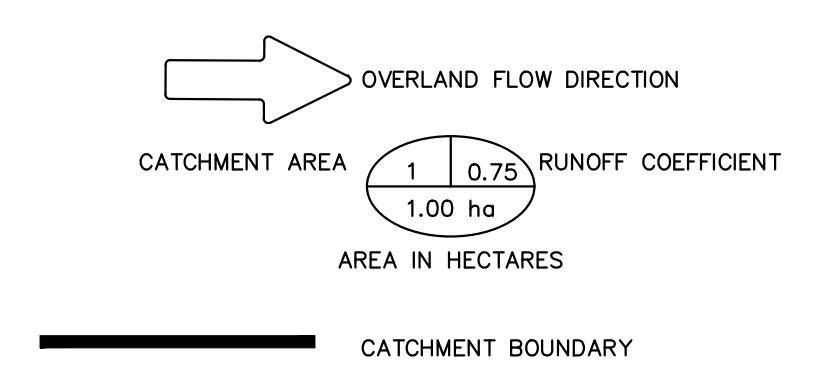
CROSS SECTION PLAN

DESIGNED BY	AMC	HORIZ SCALE	1:150	PROJECT #	24242
DRAWN BY	JM	VERT SCALE	N/A	DRAWING #	CS-1
CHECKED BY	MWD	DATE	JULY 2025	REVISION #	2





**LEGEND**



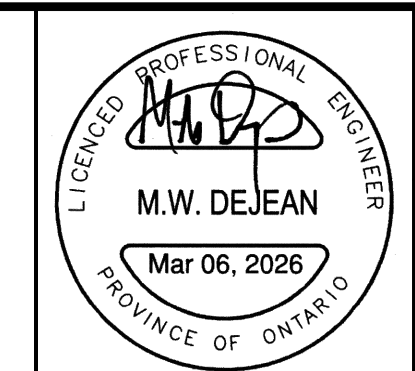
1 | 0.44  
0.30 ha

BIRCH STREET

APPROVAL

NO.	REVISION NOTE	DATE	BY
2.	REVISED AS PER SUBMISSION 2 COMMENTS	03/06/26	JM
1.	REVISED AS PER SUBMISSION 1 COMMENTS	11/07/25	JM

**BENCHMARK**  
 AS PER SURVEY BY RUDY MAK SURVEYING LTD. DATED MAY 28, 2025  
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 SITE BENCHMARK#2 IS TOP OF IB LOCATED AT THE NORTHWEST CORNER OF LOT 13 HAVING AN ELEVATION OF 179.37.



720 SOLUTIONS  
 29 AND 45 BIRCH STREET  
 TOWN OF COLLINGWOOD  
 PRE-DEVELOPMENT STORM  
 CATCHMENT PLAN

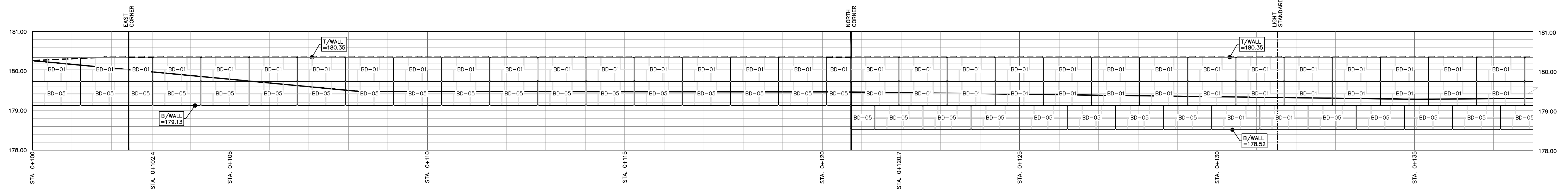
DESIGNED BY	AMC	HORIZ SCALE	1:150	PROJECT #	24242
DRAWN BY	KV	VERT SCALE	N/A	DRAWING #	STM-1
CHECKED BY	MWD	DATE	JULY 2025	REVISION #	2



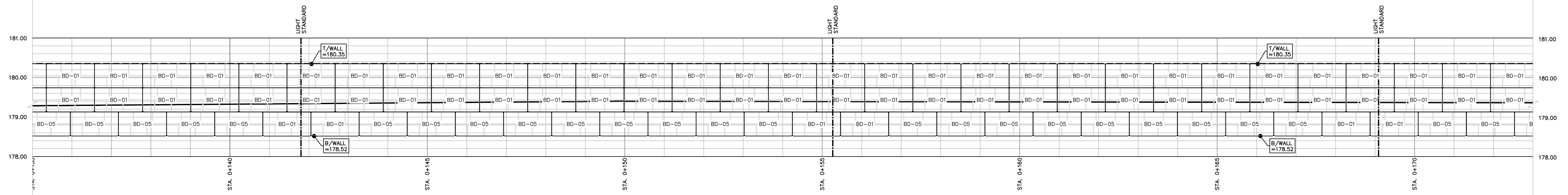
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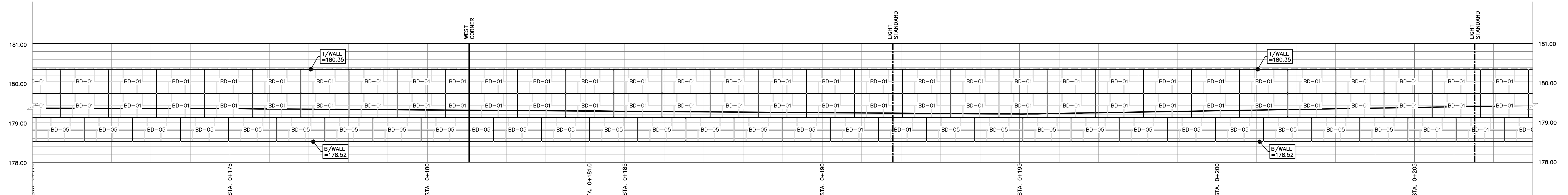




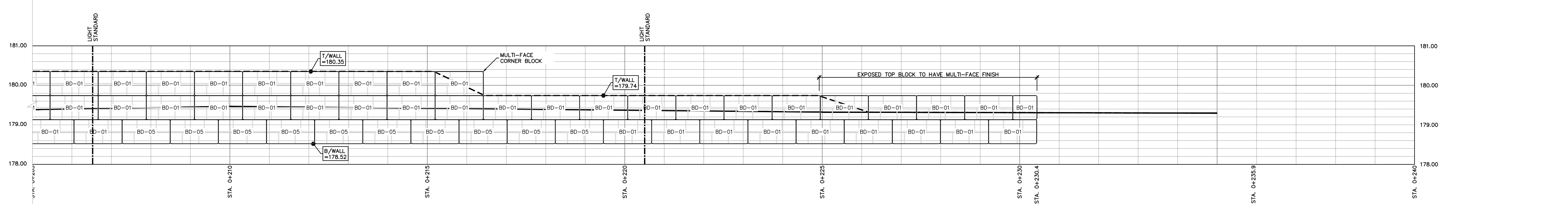
**RETAINING WALL ELEVATION 1**  
(STA. 1+100 - 1+135)  
SCALE= 1:50



**RETAINING WALL ELEVATION 2**  
(STA. 1+135 - 1+170)  
SCALE= 1:50



**RETAINING WALL ELEVATION 3**  
(STA. 1+170 - 1+205)  
SCALE= 1:50

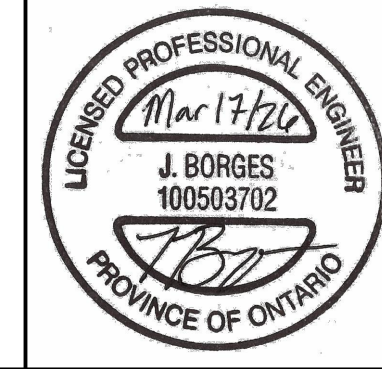


**RETAINING WALL ELEVATION 4**  
(STA. 1+205 - 1+238)  
SCALE= 1:50

APPROVAL

NO.	REVISION NOTE	DATE	BY
3	ISSUED FOR BUILDING PERMIT	03/17/26	J.B.
2	RE-ISSUED FOR CLIENT REVIEW	02/26/26	J.B.
1	ISSUED FOR CLIENT REVIEW	12/19/25	J.B.

BENCHMARK		

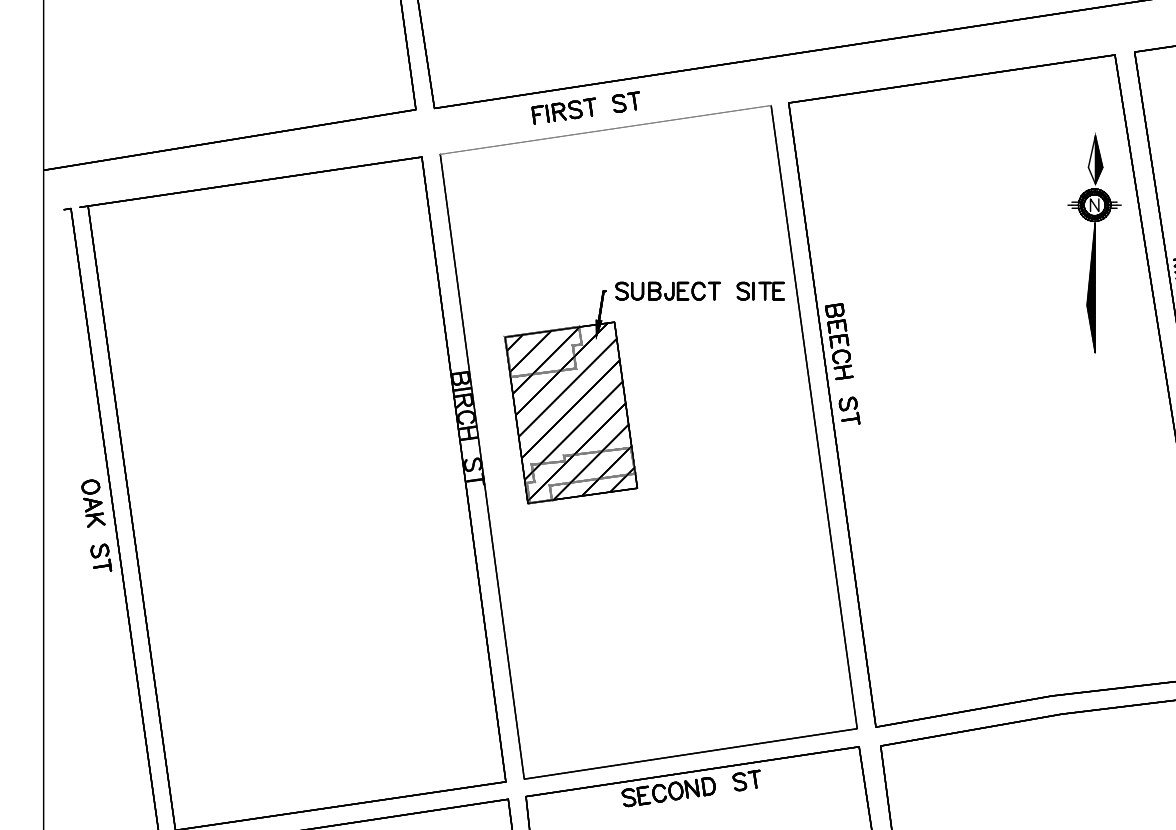
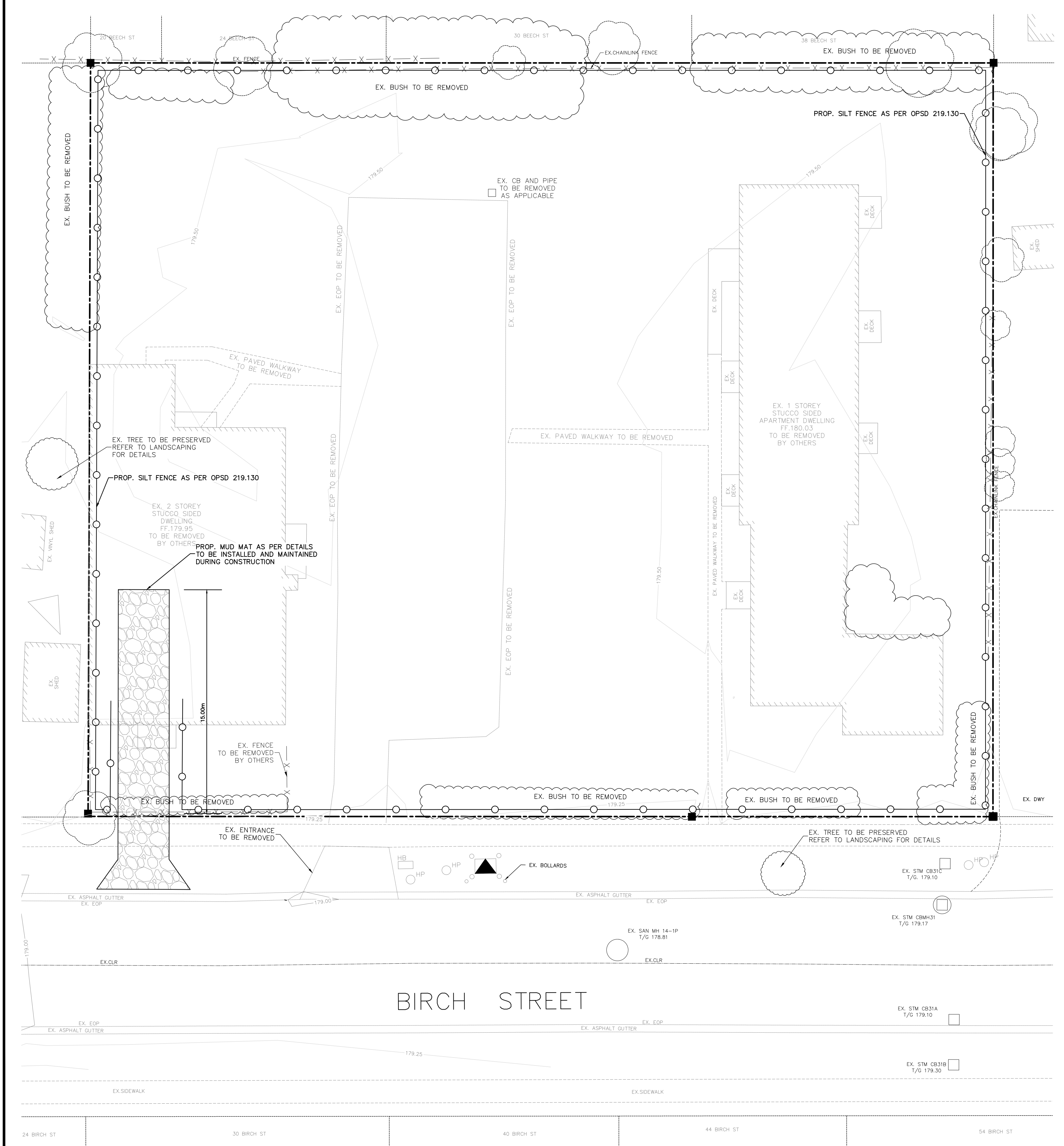


29 AND 45 BIRCH STREET  
TOWN OF COLLINGWOOD

RETAINING WALL DESIGN  
RETAINING WALL ELEVATIONS

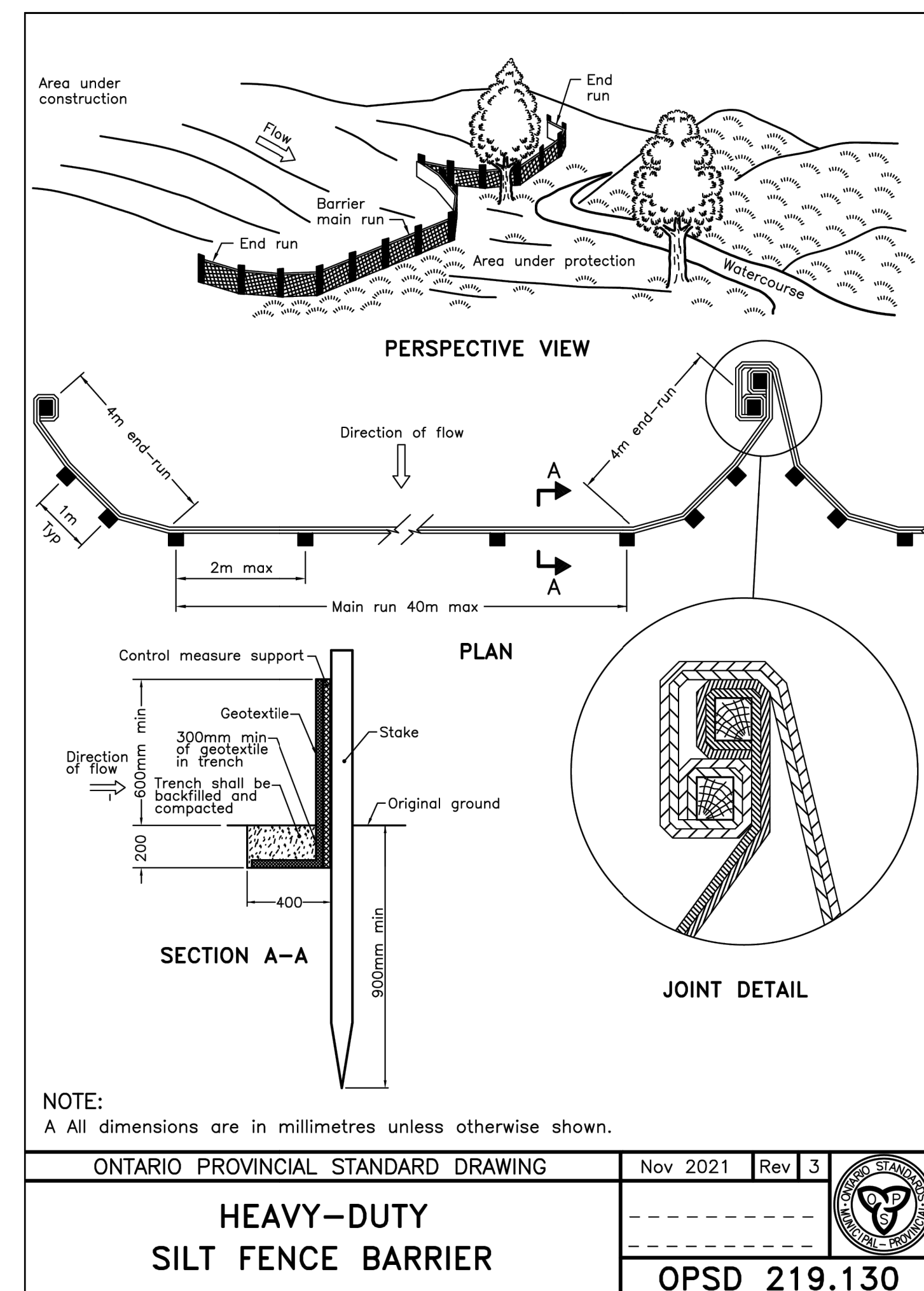
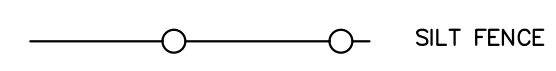
**PEARSON ENGINEERING**  
PEARSONENG.COM PH. 705.719.4785

DESIGNED BY	DD	HORIZ SCALE	AS NOTED	PROJECT #	24242
DRAWN BY	TW	VERT SCALE		DRAWING #	S2
CHECKED BY	JB	DATE	DEC 2025	REVISION #	3

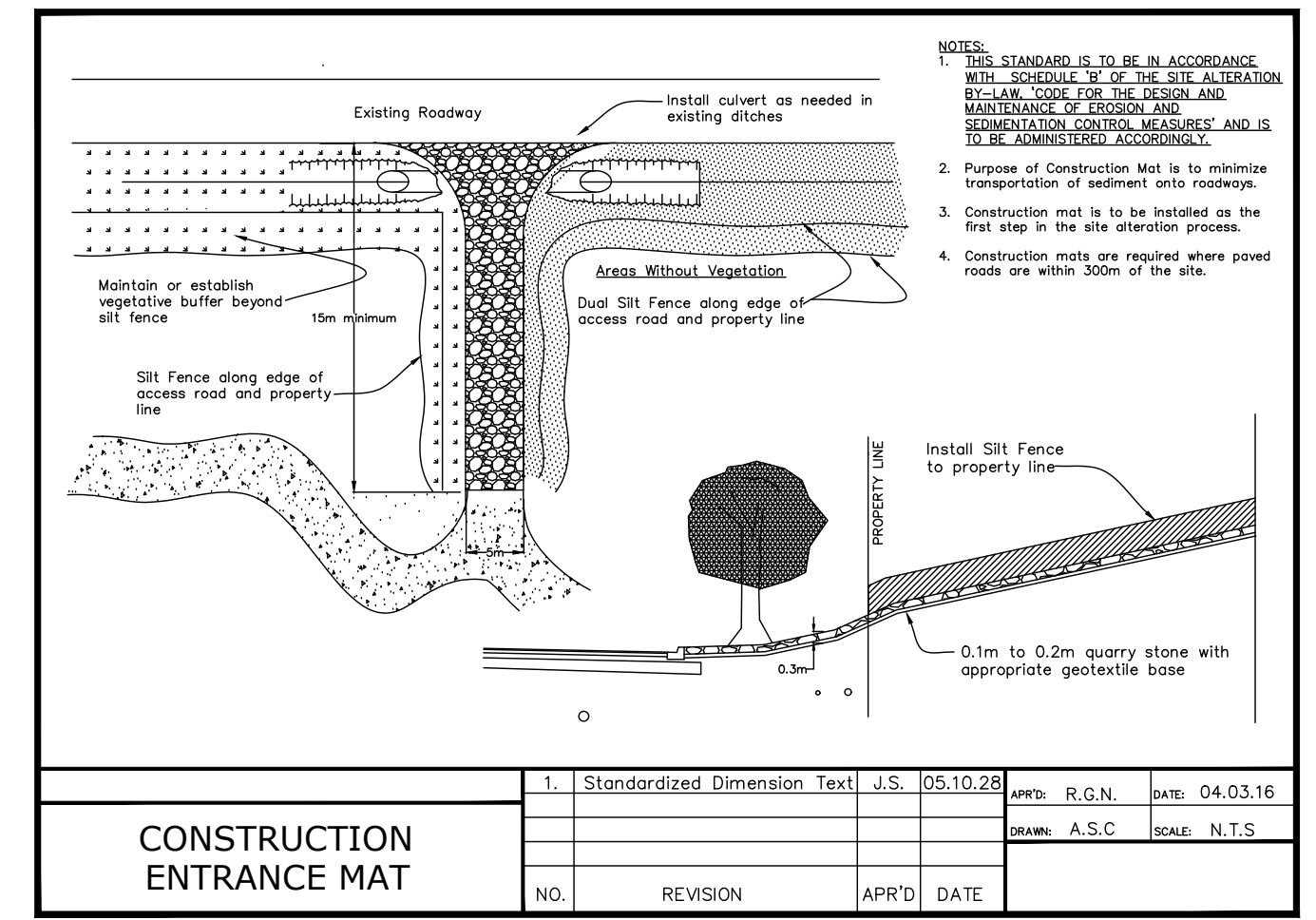


KEY MAP: NTS

LEGEND



ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2021	Rev 3	
<b>HEAVY-DUTY SILT FENCE BARRIER</b>		<b>OPSD 219.130</b>		



NO.	REVISION	APPR'D	DATE
1.	Standardized Dimension Text	J.S.	05.10.28
		DATE: R.G.N.	DATE: 04.03.16
		DATE: A.S.C.	SCALE: N.T.S.

1. SEQUENCE OF CONSTRUCTION

- ENGINEER TO BE NOTIFIED PRIOR TO INITIATION OF ANY ON SITE WORKS.
- SILT FENCE AS PER DETAIL OPSD 219.110 AND CONSTRUCTION ACCESS MATS AS PER TOWN STANDARD ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY WORKS ON SITE.
- VEGETATION REMOVAL MAY COMMENCE AFTER ALL SILT FENCE IS INSTALLED AND APPROVED BY THE ENGINEER.
- COMMENCE WITH EARTH WORKS AND SITE SERVICING.
- EROSION CONTROL MEASURES TO BE MAINTAINED AS DIRECTED BY THE ENGINEER DURING THE CONSTRUCTION PERIOD. ADDITIONAL CONTROL MEASURES MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
- ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH SEED, SOD, MULCH OR OTHER ADEQUATE COVERING, AS INSTRUCTED BY THE ENGINEER.

2. NOTES FOR SEDIMENT & EROSION CONTROL

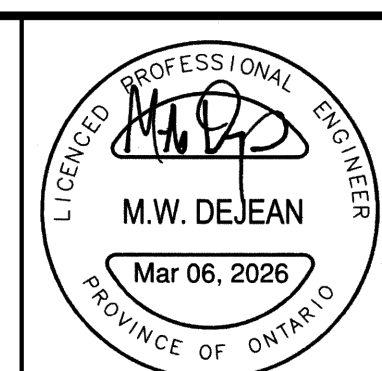
- DISTURBED AREAS THAT HAVE FAILED TO HAVE STABLE GROUND COVER ESTABLISHED BY OCTOBER 30TH SHALL BE PROTECTED WITH A SILTATION CONTROL FENCE OR STRAW MULCH ETC. AND MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION BECOMES ESTABLISHED IN THE SUBSEQUENT GROWING SEASON.
- ANY DEWATERING WASTE SHALL BE DISCHARGED TO A VEGETATED AREA AT LEAST 30m FROM ANY WATERCOURSE AND FILTERED. FILTERING METHODS MUST BE APPROVED BY THE SITE ADMINISTRATOR.
- SILT FENCE SHALL BE PUT IN PLACE PRIOR TO AND MAINTAINED DURING ALL GRADING. SILT FENCE TO BE INSPECTED PRIOR TO COMMENCEMENT OF EARTH GRADING ACTIVITIES. SILT FENCE TO BE INSPECTED AND REPAIRED OR REPLACED IF DAMAGED AS DIRECTED BY THE SITE ADMINISTRATOR. SILT CONTROLS TO BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAIN EVENT. INSTALLATION SHALL BE TO THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
- THE CONTRACTOR SHALL BE PREPARED FOR UNEXPECTED CONDITIONS AND ACCORDINGLY HAVE STOCKPILED MATERIALS ON SITE FOR NECESSARY REPAIRS AS A RESULT OF FAILED OR INADEQUATE CONTROL MEASURES. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK, AND AFTER EVERY RAINFALL EVENT.
- MUD MATS AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES THE SITE SHALL BE USED. MUD MATS TO CONSIST OF 300mm MIN. 100mm CLEAR STONE HAVING DIMENSIONS 5m WIDE X 15m LONG.
- CONTRACTOR SHALL OBTAIN A CURRENT COPY AND BECOME FAMILIAR WITH OPSS 577, CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS WELL AS ALL APPLICABLE MUNICIPAL STANDARDS.
- THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES. SUCH MEASURES SHOULD BE PRESENTED IN WRITING FOR APPROVAL OF THE SITE ADMINISTRATOR AND MUST BE APPROVED IN WRITING BY THE MUNICIPALITY AND CONSERVATION AUTHORITY.
- THE TOPS OF ALL FILTER FABRIC MUST BE A MINIMUM OF 1.0 METRES ABOVE THE GROUND LEVEL AND ATTACHED TO THE FENCE WITH A CONTINUOUS STEEL WIRE. ALTERNATIVELY, THE FILTER FABRIC MUST BE FOLDED OVER THE TOP OF THE FENCE AND ATTACHED TO THE FENCE WITH WIRE LOOPED THROUGH THE FABRIC ON BOTH SIDES OF THE FENCE. FILTER FABRIC IS TO BE TERRAFIX 270R OR EQUIVALENT.
- ALL DISTURBED GROUND LEFT FOR MORE THAN 30 DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, OR COVERING OR OTHER EQUIVALENT CONTROL MEASURES. THIS PERIOD OF INACTIVITY SHALL BE AT THE DISCRETION OF THE TOWNSHIP OF ORO MANAGER OF ENGINEERING BUT SHALL NOT EXCEED THIRTY DAYS OR SUCH LONGER PERIOD DEEMED ADVISABLE BY THE TOWNSHIP OF COLLINGWOOD'S MANAGER OF ENGINEERING.
- CONTRACTOR RESPONSIBLE FOR MUD TRACKING, PREVENTION, AND MAINTENANCE ON SURROUNDING ROADS.

C:\Users\m\OneDrive\Local\Temp\Auto\219440\242424 - EPR.dwg Layout\EPR-1.dwg Plotted Mar 05, 2026 @ 2:34pm by jmoreno @ PEARSON ENGINEERING LTD.

APPROVAL

NO.	REVISION NOTE	DATE	BY
2.	REVISED AS PER SUBMISSION 2 COMMENTS	03/06/26	JM
1.	REVISED AS PER SUBMISSION 1 COMMENTS	11/07/25	JM

**BENCHMARK**  
 AS PER SURVEY BY RUDY MAK SURVEYING LTD. DATED MAY 28, 2025  
 SITE BENCHMARK#1 IS TOP OF IB LOCATED AT THE SOUTHEAST CORNER OF THE PROPERTY HAVING AN ELEVATION OF 179.35.  
 SITE BENCHMARK#2 IS TOP OF IB LOCATED AT THE NORTHWEST CORNER OF LOT 13 HAVING AN ELEVATION OF 179.37.



720 SOLUTIONS  
 29 AND 45 BIRCH STREET  
 TOWN OF COLLINGWOOD  
**EROSION PROTECTION AND REMOVALS PLAN**

DESIGNED BY: AMC HORIZ SCALE: 1:150 PROJECT #: 24242  
 DRAWN BY: KV VERT SCALE: N/A DRAWING #: EPR-1  
 CHECKED BY: MWD DATE: JULY 2025 REVISION #: 2