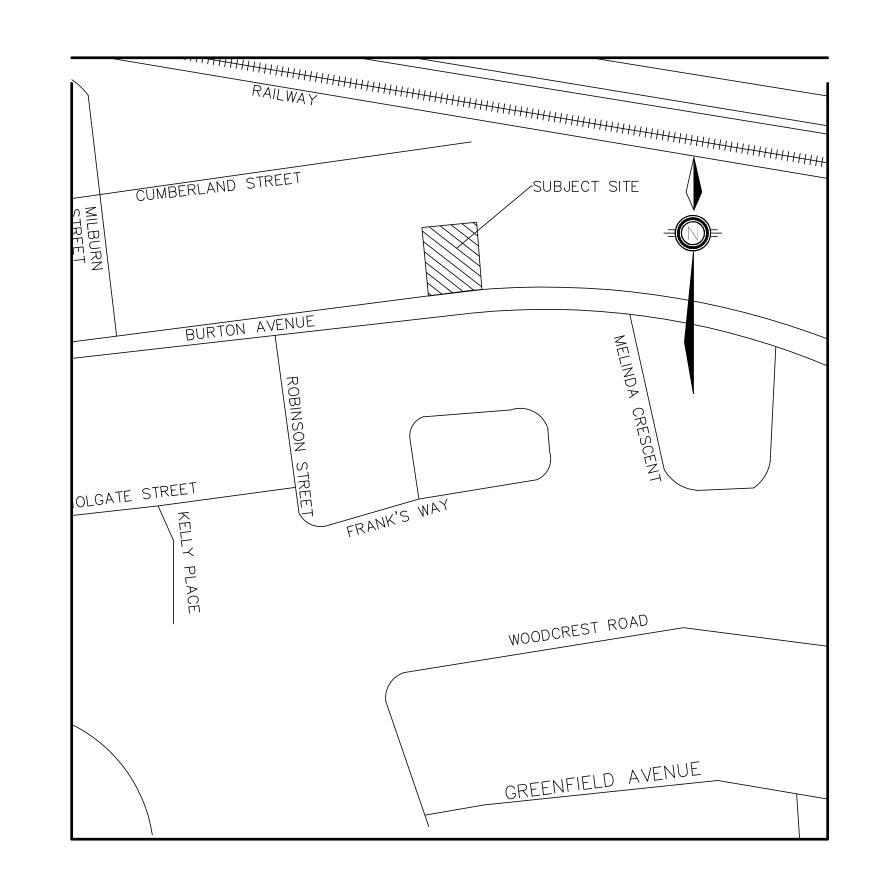
APARTMENT DEVELOPMENT 181-185 BURTON AVENUE BARRIE ON.

DRAWING LIST

ND-1 NOTES AND DETAILS
ND-2 NOTES AND DETAILS
SG-1 SITE GRADING PLAN
SS-1 SITE SERVICING PLAN
STM-1 PRE-DEVELOPMENT STORM CATCHMENT PLAN
STM-2 POST DEVELOPMENT STORM CATCHMENT PLAN
PM-2 PAVEMENT MARKING AND SIGNAGE PLAN
EPR-1 EROSION PROTECTION & REMOVALS PLAN



CITY OF BARRIE
70 COLLIER STREET
(BOX 400)
BARRIE, ON
L4M 4T5

MONOLITE HOLDINGS
1410 MAJOR MACKENZIE DR.
UNIT C8
VAUGHAN, ON
L6A4H6



GENERAL NOTES

1. DRAWINGS

A. ALL DRAWINGS SHALL BE PRODUCED IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARDS & SYMBOLS FOR PLAN & PROFILE DRAWINGS, GENERAL SERVICE PLANS AND LOT GRADING PLANS.

2. MEASUREMENTS

A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.

3. GENERAL

- A. ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARD DRAWINGS (BSD) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).
- B. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY CITY OF BARRIE STANDARD DRAWINGS (BSD) AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).
- C. TREE REMOVALS TO TAKE PLACE WITHIN THE APRIL 1 TO AUGUST 31 WINDOW.
- D. LOCATION OF EXISTING SERVICES ARE NOT GUARANTEED. THE CONTRACTOR IS REQUIRED TO NOTIFY THE VARIOUS UTILITY COMPANIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- E. A RIGHT-OF-WAY ACTIVITY PERMIT IS REQUIRED FROM THE ENGINEERING DEPARTMENT (OPERATIONS CENTER, 165 FERNDALE DR. NORTH) PRIOR TO THE COMMENCEMENT OF WORK WITHIN ANY CITY RIGHT-OF-WAY.
- F. A SITE ALTERATION PERMIT IS REQUIRED FROM THE ENGINEERING DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY EARTH WORKS ON THE SITE.
- G. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- H. GRANULAR MATERIAL, USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- I. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE CITY ENGINEERING DEPARTMENT.
- . ALL SILT CONTROL AND EROSION PROTECTION DEVICES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE CITY ENGINEERING DEPARTMENT.
- J. FILL REQUIREMENTS TO FOLLOW THE PROCEDURES OUTLINED BY WSP IN THE GEOTECHNICAL REPORT PROVIDED.

SANITARY SEWERS

- A. 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.
- B. MAXIMUM DEFLECTION FROM COMBINED LIVE AND DEAD LOADING SHALL NOT EXCEED ANY C.S.A., O.P.S. OR MANUFACTURERS RECOMMENDED SPECIFICATIONS.
- C. PVC, CONCRETE AND PROFILE WALL PVC SEWERS SHALL HAVE RUBBER GASKET TYPE JOINTS AND SHALL BE CERTIFIED TO CONFORM TO ALL APPLICABLE CURRENT C.S.A. SPECIFICATIONS.
- D. CONCRETE SANITARY SEWERS SHALL HAVE A MINIMUM STRENGTH OF 50 N/M/MM CONFORMING TO CSA STANDARD A257.2-1982, CLASS 50-D (PREVIOUSLY C.S.A. STANDARD A257.2-1974, CLASS II).
- 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 BSD-N2.
- 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 MANUFACTURES GUIDELINES.
- G. PIPE TO BE MINIMUM 100 mm DIA. PVC SDR28, RUBBER GASKET TYPE JOINTS AND SHALL CONFORM TO C.S.A. (B-182.2.3.4) (COLOURED) FOR A RESIDENTIAL HOUSE AND 150mm MINIMUM DIA. PVC SDR28 FOR INDUSTRIAL/COMMERCIAL DEVELOPMENT.

WATERMAIN

- A. CONTRACTOR SHALL INFORM THE CITY OF BARRIE ENGINEERING DEPARTMENT A MINIMUM OF 48 HOURS IN ADVANCE OF THEIR INTENTIONS TO WORK.
- B. OPERATION OF FIRE HYDRANTS AND VALVES ON POTABLE WATER BY OTHER THAN ENGINEERING DEPARTMENT IS PROHIBITED BY BY-LAW 1-88 AS AMENDED BY BY-LAW 99-290. THE CITY WILL SWAB, PRESSURE TEST, CHLORINATE AND FLUSH ALL NEW WATERMAINS.
- C. MINIMUM COVER OVER WATERMAIN TO BE 1.7m. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMAIN AND SEWERS TO BE 2.5M. WHERE WATERMAIN CONFLICTS WITH SEWER PIPES, DEFLECT WATERMAIN HORIZONTALLY OR VERTICALLY WHILE PROVIDING A MINIMUM OF 0.5M CLEARANCE BETWEEN WATERMAIN AND SEWERS. MAINTAIN MINIMUM DEPTH OF COVER AT ALL TIMES.
- D. WATERMAIN SHALL BE CONSTRUCTED WITH BEDDINGS AS PER OPSD 802.010 (GRANULAR 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD 802.030 OR 802.031 CLASS 'B' (GRANULAR 'A' BEDDING MATERIAL, GRANULAR 'A' OR SELECT NATIVE COVER MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING, OR * ALTERNATIVE * ALTERNATIVE EMBEDMENT MATERIAL SAND MEETING GRADATION REQUIREMENTS OF OPS 1004.05.05 COMPACTED TO 95% PROCTOR DENSITY. GEOTECHNICAL CERTIFICATION OF MATERIAL AND COMPACTION TESTING MUST BE PROVIDED EVERY 150 METRES. THE COMPACTION TESTING MUST INCLUDE THE ENTIRE EMBEDMENT ENVELOPE (HAUNCHES, BEDDING AND TOP OF PIPE).
- E. COPPER WATER MAINS AND SERVICES 25mm TO 50mm IN DIAMETER SHALL BE EMBEDDED IN SAND 100mm ABOVE AND BELOW TO CONFORM TO OPSS 1004.05.07.
- 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.
- G. RESTRAINING WILL BE REQUIRED ON ALL FIRE HYDRANTS
- H. NEW WATERMAINS TO BE PVC DR18 CL150, OR DUCTILE IRON CL52
- TRACING WIRE (#12 TWU STRANDED COPPER) TO BE INSTALLED ON THE TOTAL LENGTH OF ALL NON-METALLIC WATERMAIN AND BROUGHT UP AT EACH HYDRANT AND CONNECTED TO FLANGE BOLT.
- ALL WATER SERVICES SHALL BE MINIMUM 25MM TYPE 'K' COPPER UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING. WATER SERVICE SADDLES SHALL BE USED WHEN TAPPING INTO PVC WATERMAIN.
- K. RISER PIPES ARE TO BE INSTALLED AS PER BSD-505, AND REMOVED AS DIRECTED. SWABBING SCHEDULE TO BE
- SUPPLIED BY A CITY OF BARRIE FIELD REPRESENTATIVE.
- . SERVICE TAPPINGS SHALL BE PLACED AT A MINIMUM SEPARATION OF 1.0M AND A MINIMUM OF 0.6M FROM JOINTS. (ENDS OF PIPE)
- M. ALL NEW CURB STOPS AND BOXES TO BE LOCATED OUT OF DRIVEWAYS AND SIDEWALKS.
- O. ALL WATER SERVICES TO HAVE BACKFLOW PREVENTION DEVICES INSTALLED AS PER CITY OF BARRIE BYLAW 2017-121

STORM SEWER

- A. PLACE ALL CATCH BASIN LATERALS AT 2% GRADE UNLESS OTHERWISE NOTED. PIPE SIZE MINIMUM 250mm DIA. SINGLE, 300mm DIA. DOUBLE.
- B. STORM SEWERS SHALL BE CONSTRUCTED WITH BEDDING 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 LINIESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING
- FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING.

 C. MAINTENANCE HOLE TOPS (FRAMES) AND CATCH BASIN (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WHEN THE TOP LIFT OF ASPHALT IS PLACED. ALL
- D. 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.
- E. PIPE MATERIAL TO BE REINFORCED CONCRETE WITH A MINIMUM STRENGTH OF 50 N/m/mm CERTIFIED TO C.S.A. STANDARD A247.2-1982, CLASS 50-D (PREVIOUSLY C.S.A. STANDARD A257.2-1974, CLASS II) OR PVC CERTIFIED TO C.S.A. STANDARDS 182.2 AND 182.4.
- F. STORM SEWER TO BE MINIMUM 300mm DIAMETER WITH JOINTS CONFORMING TO C.S.A. STANDARD A257.3.
- G. ALL PIPE BEDDING MUST CONFORM TO OPSD, MAXIMUM COVER TABLE. NO FLEXIBLE PIPE SEWERS WILL BE INSTALLED WITH A DEPTH OF COVER GREATER THAN 6 METRES UNLESS SPECIFICALLY APPROVED BY THE
- H. ALL PIPE HANDLING INSTALLATIONS MUST BE IN STRICT COMPLIANCE WITH MANUFACTURES INSTALLATION GUIDES AND THE O.C.P.A. OR UNIBELL GUIDELINES.

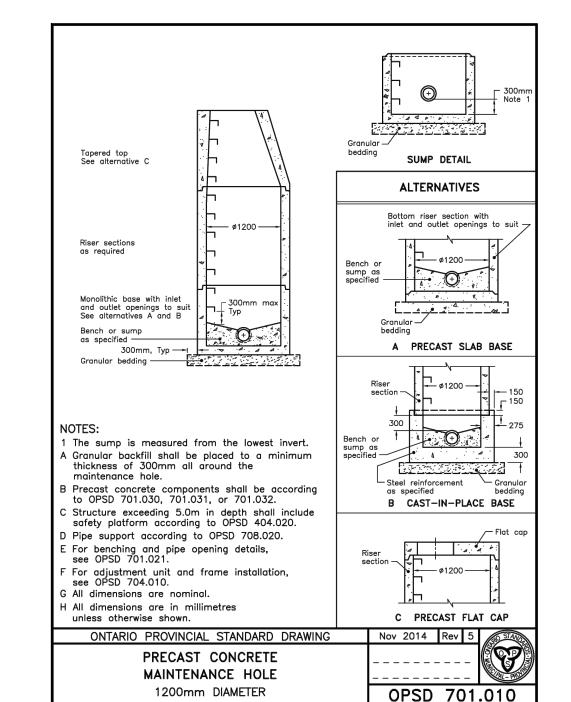
ROADS & PARKING

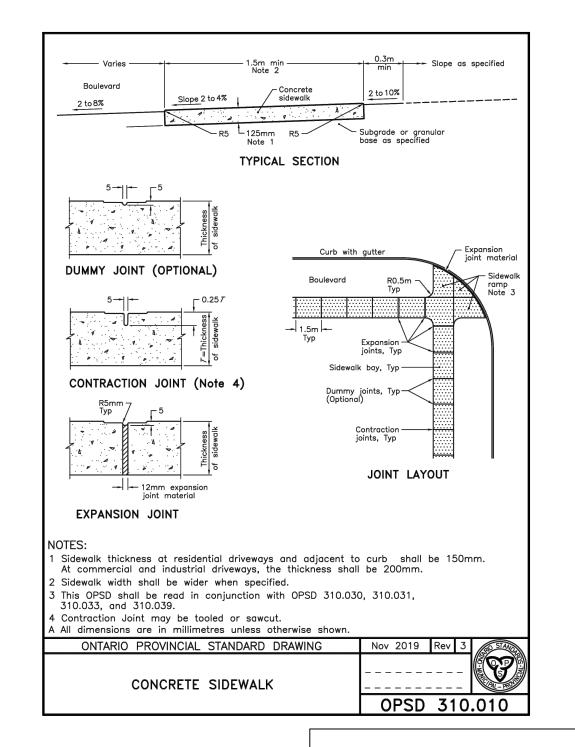
DIRECTOR OF ENGINEERING.

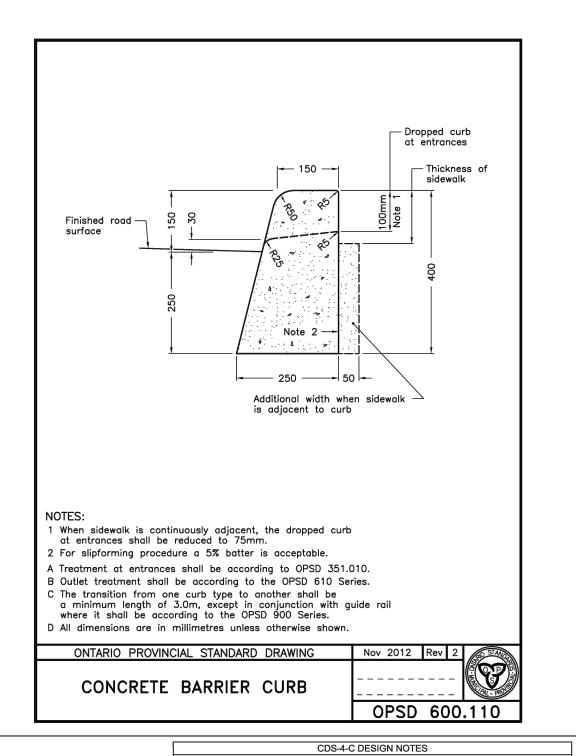
A. BARRIER CURB TO COMPLY WITH OPSD 600.110

ADJUSTMENT WILL BE ACCORDANCE WITH BSD-N2.

- E. NATIVE SUBGRADE TO BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR MAXIMUM DRY DENSITY AND SHALL BE PROOF ROLLED.
- F. GRADE AND CROSS FALL ADJUSTMENT OF MAINTENANCE HOLE AND CATCH BASIN FRAMES WILL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE. THE TOP ADJUSTMENT UNIT OF ALL CATCH BASIN AND MAINTENANCE HOLES SHALL BE RUBBER.
- G. ADJUSTMENT UNITS MUST BE CERTIFIED TO MEET ALL PERTINENT OPS, CSA, ASTM AND MTO-DSM LIST, OR OTHER INDUSTRY GUIDELINES FOR MATERIALS, PERFORMANCE AND USE AS APPLICABLE.
- H. ADJUSTMENT UNITS AND JOINTS WILL BE SEALED AND OR PARGED IN COMPLIANCE WITH MANUFACTURERS SPECIFICATIONS AND GUIDELINES.
- I. MORTAR IS USED FOR LEVELING OF PRECAST UNITS ONLY. THE THICKNESS OF MORTAR WILL BE 10MM TO FILL ALL VOIDS CREATED BY IRREGULARITIES IN THE PRECAST UNITS TO ENSURE AN EVEN SURFACE
- J. NON-COMPRESSIBLE BACK FILL WILL BE USED DURING REBUILDING, ADJUSTING, OR ANY OTHER APPLICABLE CATCH BASIN OR MAINTENANCE HOLE WORKS.
- K. THE PAVEMENT STRUCTURE SHALL CONSIST OF A MINIMUM OF THE FOLLOWING, AS PER THE GEOTECHNICAL REPORT BY WSP DATED FEBRUARY 23, 2021 HEAVY DUTY PAVEMENT (DRIVEWAY):
- 40mm HL350mm HL4/HL8
- 150mm GRANULAR 'A'300mm GRANULAR 'B'
- M. <u>MEDIUM DUTY (PARKING):</u>– 50mm HL8
- 150mm GRANULAR 'A'







THE STANDARD CDS-4-C CONFIGURATION IS SHOWN

DATA REQUIREMENTS

GOTOKE ID

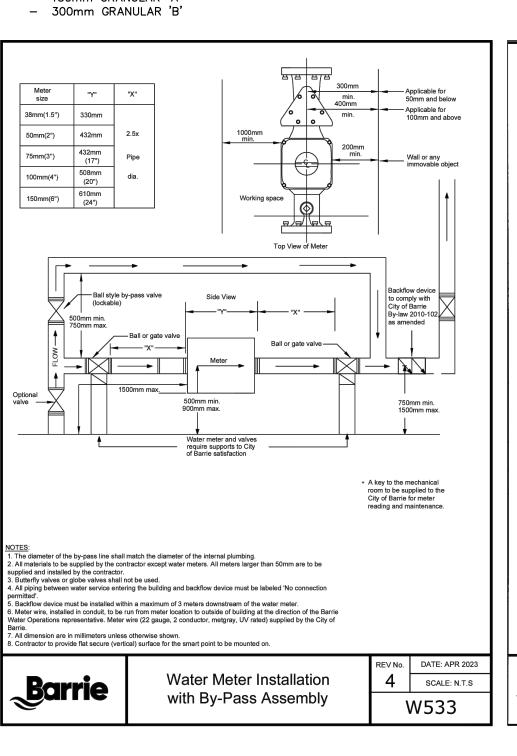
FER QUALITY FLOW RATE (CFS OR L/s)

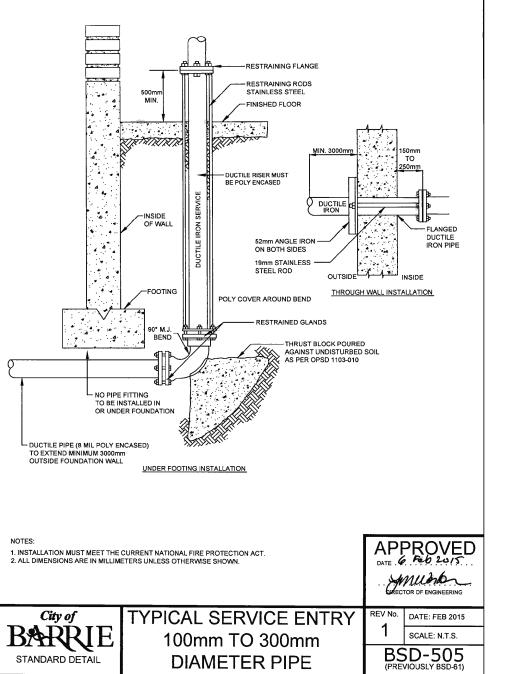
K FLOW RATE (CFS OR L/s)

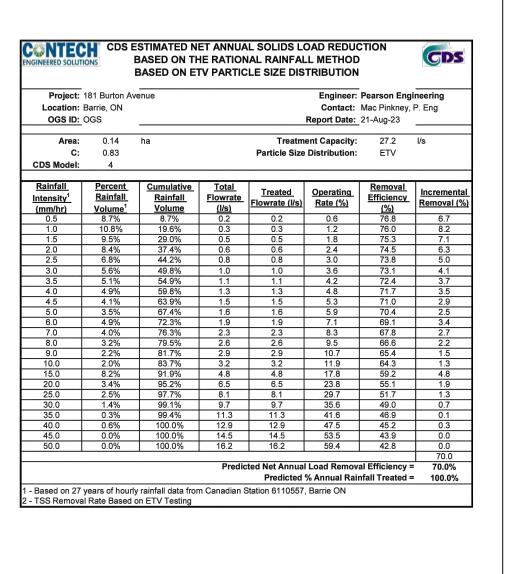
URN PERIOD OF PEAK FLOW (YRS)

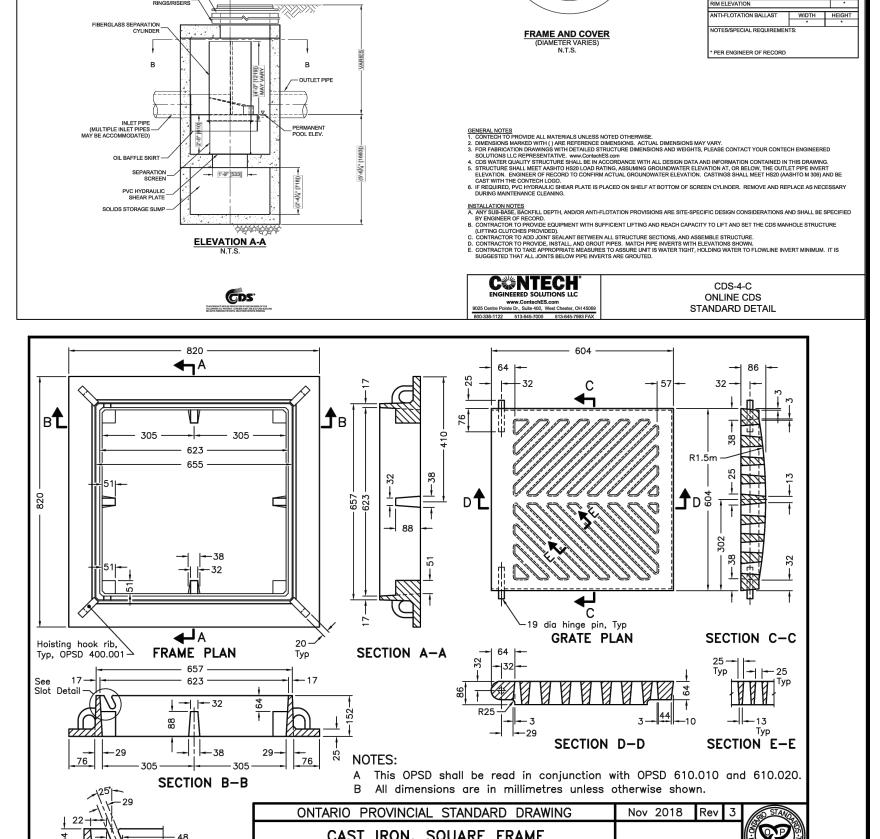
IEEN APERTURE (2400)

I.E. MATERIAL DIAME



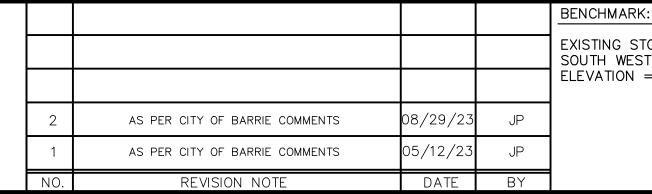






CAST IRON, SQUARE FRAME
WITH SQUARE FLAT GRATE FOR
CATCH BASINS, HERRING BONE OPENINGS

PLAN VIEW B-B



EXISTING STORM MANHOLE 3 ON BURTON AVENUE LOCATED SOUTH OF THE SOUTH WESTERN PROPERTY CORNER.

ELEVATION = 232.35



APARTMENT DEVELOPMENT 181 BURTON AVENUE BARRIE, ON

SLOT DETAIL

NOTES AND DETAILS

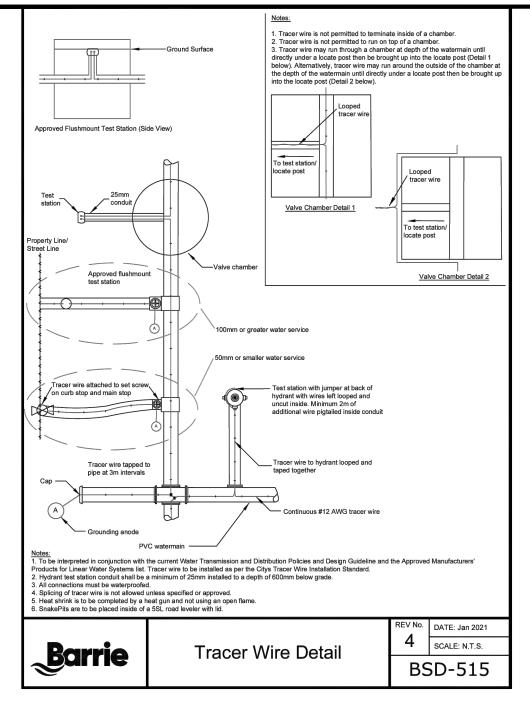


OPSD 400.020

DESIGNED BY PG/MWD HORIZ SCALE PROJECT # 19100

DRAWN BY PG VERT SCALE DRAWING # ND-1

CHECKED BY GMP DATE OCTOBER 2021 REVISION # 2



sewer invert to first strap

Stainless steel strap, Typ

hole wall

✓ Note 1

V////X////

1500mm maintenance holes.

PVC drop pipe

Existing benching

FOR EXISTING MAINTENANCE HOLES

1 At the elbow, a stainless steel strap is required at bottom of bell.

of benching. The existing benching shall be modified as required.

A Internal drop structure shall be used on existing maintenance holes 1500mm diameter

and larger with a minimum height of 600mm from the inlet pipe invert to the top

B Drop pipe shall be one size smaller than the incoming sewer with a minimum 150mm

All dimensions are in millimetres unless otherwise shows.

ONTARIO PROVINCIAL STANDARD DRAWING

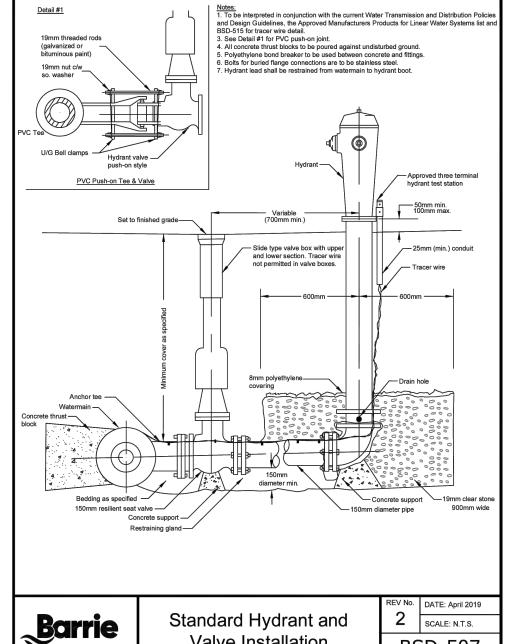
INTERNAL DROP

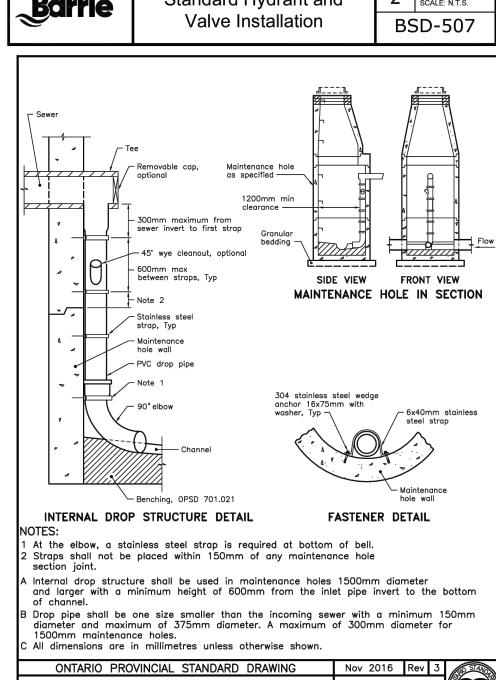
OTHER DROP

diameter and maximum of 375mm diameter. A maximum of 300mm diameter for

Straps shall not be placed within 150mm of any maintenance hole section joint.

INTERNAL DROP STRUCTURE DETAIL



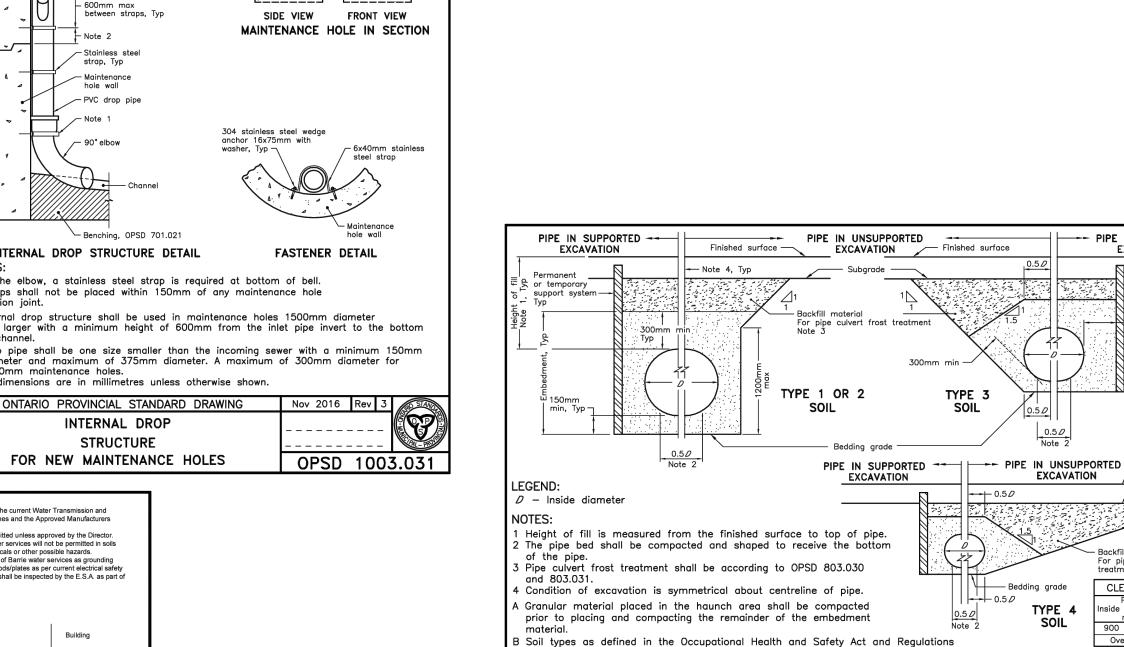


INTERNAL DROP STRUCTURE

AS PER CITY OF BARRIE COMMENTS

AS PER CITY OF BARRIE COMMENTS

REVISION NOTE



for Construction Projects.

C All dimensions are in metres unless otherwise shown.

ECHELO N

This drawing with specifications remains our

property and should not be utilised or handed over to any third party without our consent.

The flow regulator is provided with a mounting plate. The mounting plate must be fastened to the wall of the chamber

covering the outlet opening by means of drilled or embedded bolts/threaded rods of acid-resistant steel. Please note that level 1 and level 2 must be equal.

Tightening between plate and wall of chamber is made with waterresistant silicone, rubber sealing or the like.

55 Albert Street, Suite #200

Tel 905-948-0000

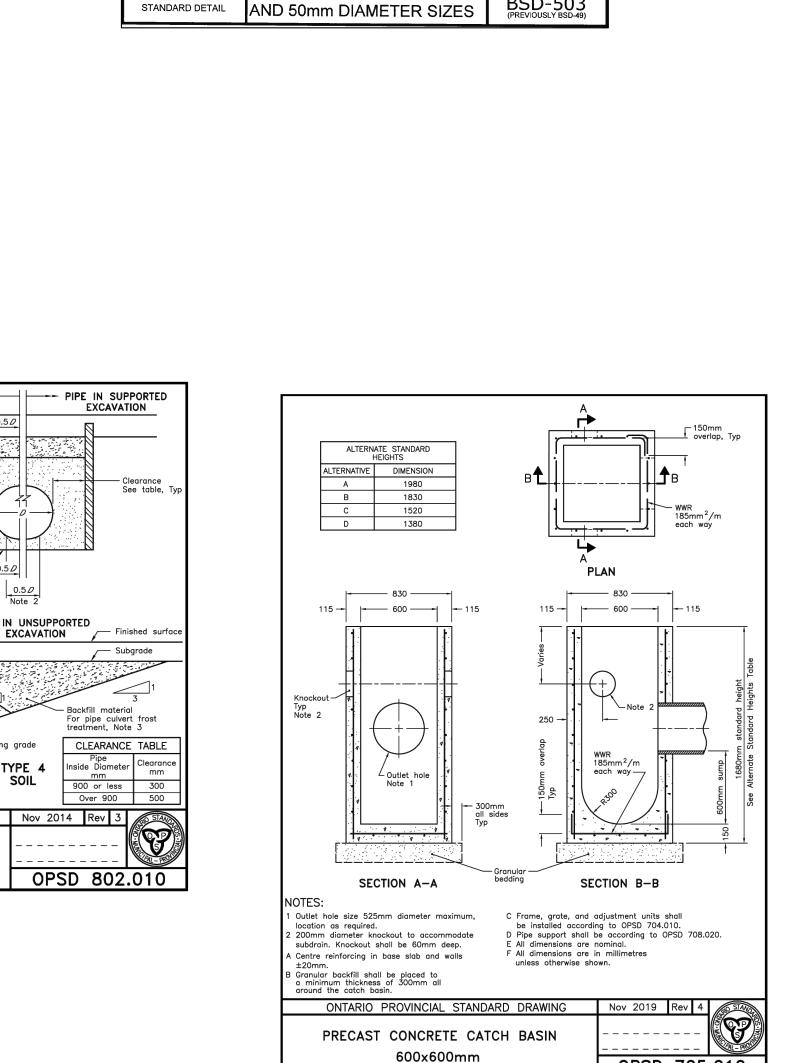
Date 25.01.2022 Ref. No. 24102.1.1 Type CEV 225 160 P Q = 1.6 I/s at h = 0.69 m

When ordering please state the

3) L : min. 2xD mm 4) W : min. 1.5xD mm

information as follows: 1) Ref. No. : 24102.1.1 2) d : min. ø 65 mm

Projekt: 181 Burton Ave., Barrie, ON



GIRECTOR OF ENGINEERING

SCALE: N.T.S.

TELESCOPING STYLE SERVICE BOX —— WITH STAINLESS STEEL ROD

BEDDING AS PER
OPSS.MUNI 1004.05.07
COMPACTED TO 95%
S.P.M.D.D.

CONCRETE BLOCK

COPPER WATER SERVICE

1. ANY JUNCTION MADE IN SERVICE PIPE BETWEEN MAIN STOP AND CURB STOP TO BE MADE WITH

BARRIE CONNECTION DETAIL 38mm

1. ANY JUNCTION MADE IN SERVICE PIPE BETWEEN MAIN STOP AND CURB STOP TO APPROVED COUPLINGS, (FOR 50mm ONLY).
2. ALL WATER SERVICES TO BETINSTALLED AT RIGHT ANGLE TO THE WATERMAIN.
3. ALL TAPPINGS TO BE AT 3 OR 9 O'CLOCK POSITION ONLY.
4. 915mm (36") STAINLESS STEEL SERVICE BOX ROD.
5. SEE BS)-504 FOR 38mm AND 50mm NON-COPPER WATER SERVICES.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

PIPE IN SUPPORTED

EXCAVATION

— Finished surfe

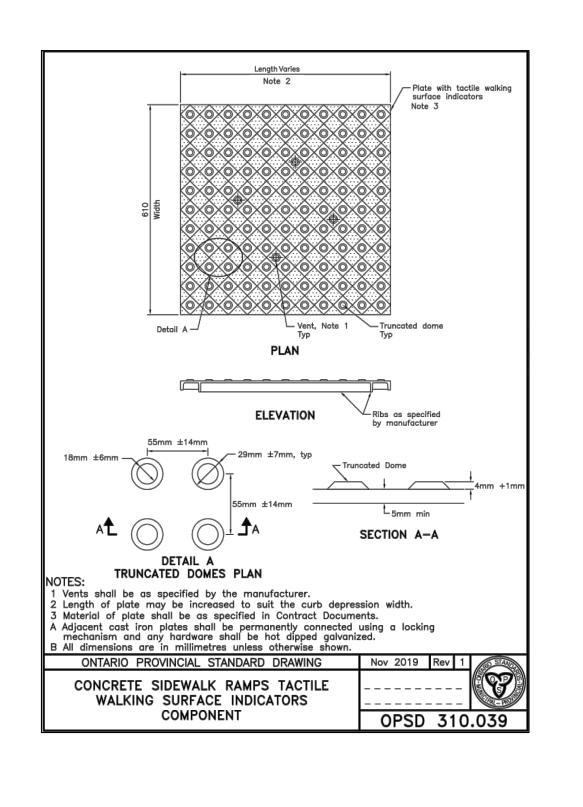
Subgrade

- Backfill material For pipe culvert frost treatment, Note 3

Over 900

OPSD 802.010

CLEARANCE TABLE



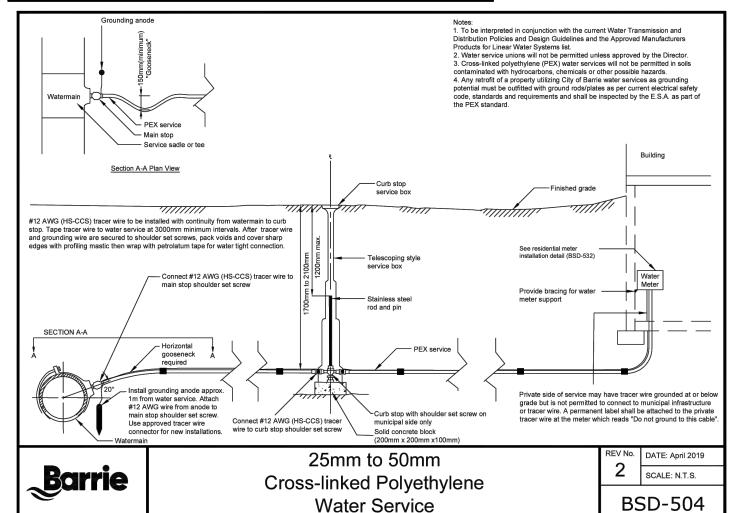
DOUBLE RAMP WITHOUT BOULEVARD

DROPPED CURB WITH GUTTEI AS SPECIFIED INTEGRALI WITH RAMP, NOTE

FINISHED ROAD SURFACE

STANDARD DETAIL

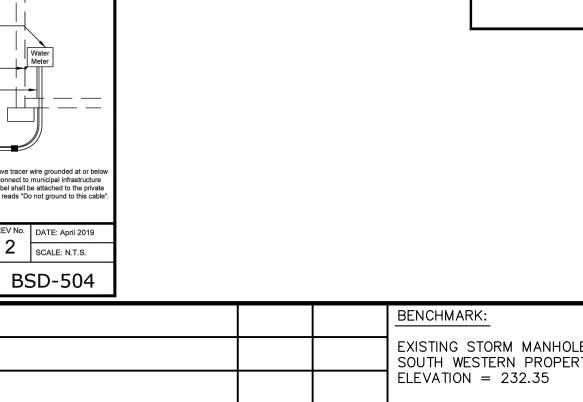
JOURNAL STATE IN MILLIMETRES UNLESS OTHERWISE NOTED FOR CROSSWALK MARKINGS AND SIGNAGE REFER TO OTH BOOK 1



OPSD 1003.030

SIDE VIEW FRONT VIEW MAINTENANCE HOLE IN SECTION

FASTENER DETAIL



3/29/23

5/12/23

DATE

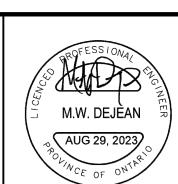
BY

EXISTING STORM MANHOLE 3 ON BURTON AVENUE LOCATED SOUTH OF THE SOUTH WESTERN PROPERTY CORNER.

ONTARIO PROVINCIAL STANDARD DRAWING

FLEXIBLE PIPE EMBEDMENT AND BACKFILL

EARTH EXCAVATION



APARTMENT DEVELOPMENT 181 BURTON AVENUE BARRIE, ON

OPSD 705.010

NOTES AND DETAILS

	P	EARS	5 🗆	N
		VGINEE RSONENG.COM PH.		
DESIGNED BY	PG/MWD	HORIZ SCALE	PROJECT #	19100
DRAWN BY	PG	VERT SCALE	DRAWING #	ND-2

OCTOBER 2021

SLOPE 2% MAX

APPROVED

R. Sutter

No. DATE: OCT 2017

BSD-317

SCALE: N.T.S.

DOUBLE RAMP WITH BOULEVARD

RAMP PLAN

RAMP ELEVATION

NOTE 6

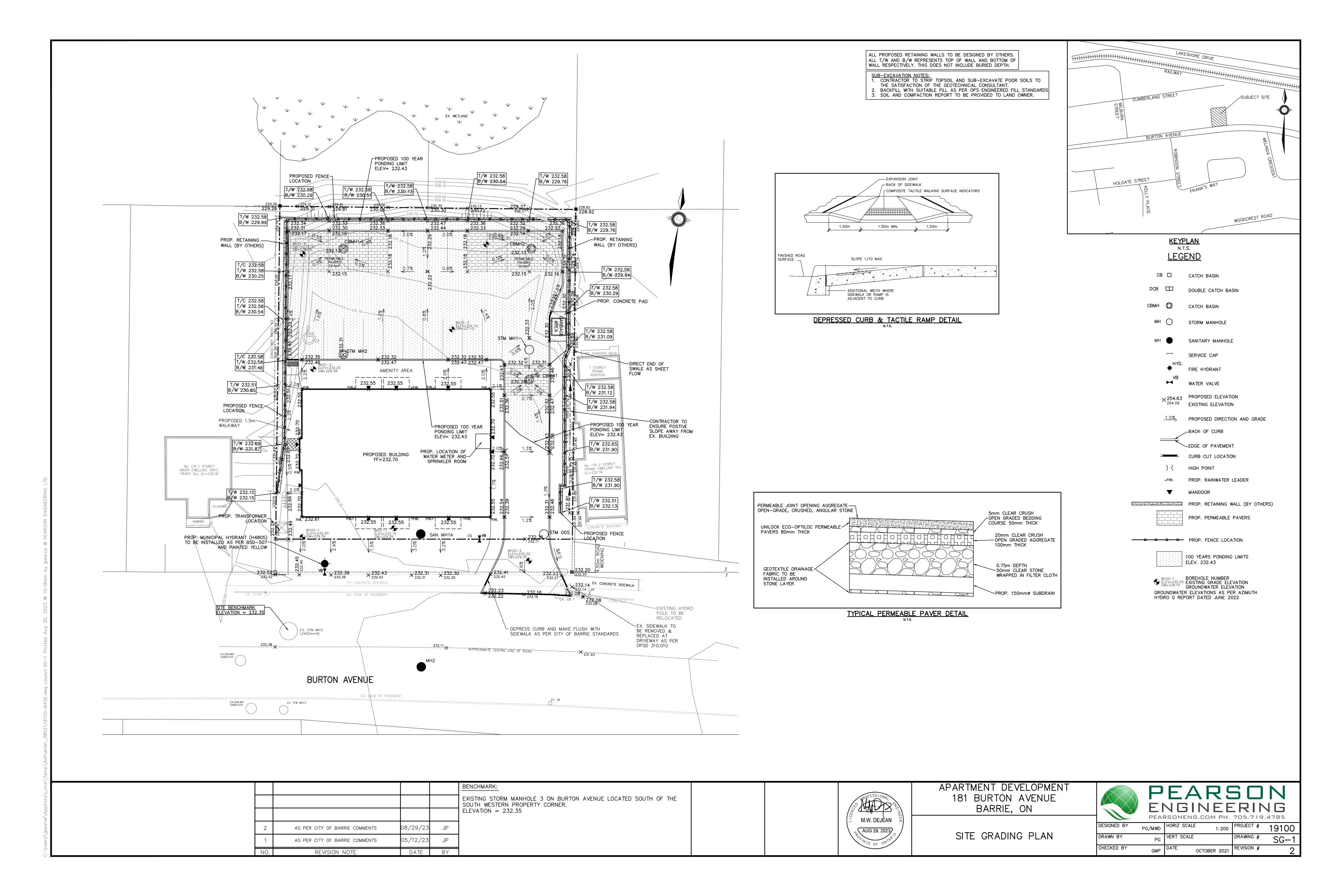
AT SIGNALIZED INTERSECTIONS

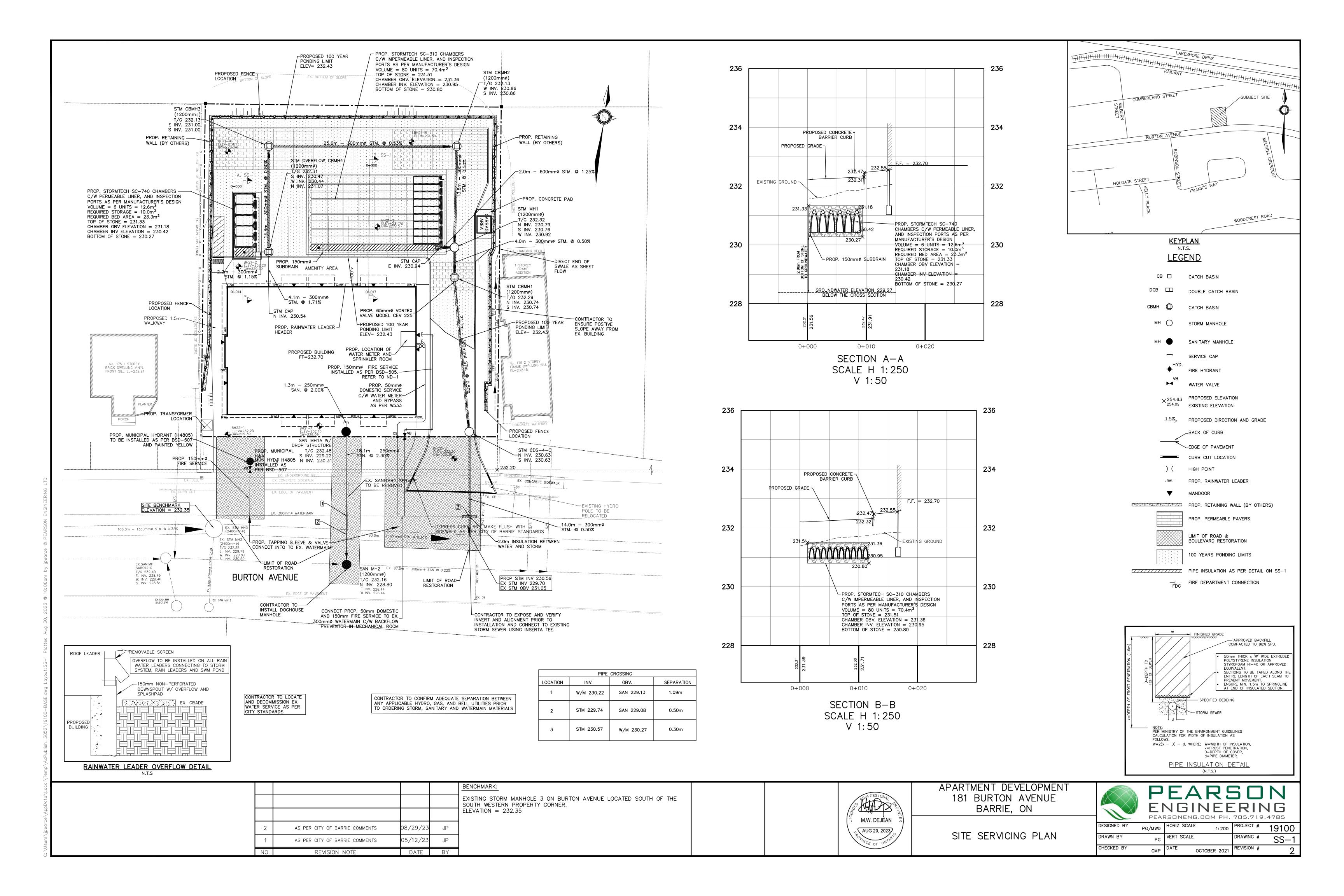
RAMP SECTION

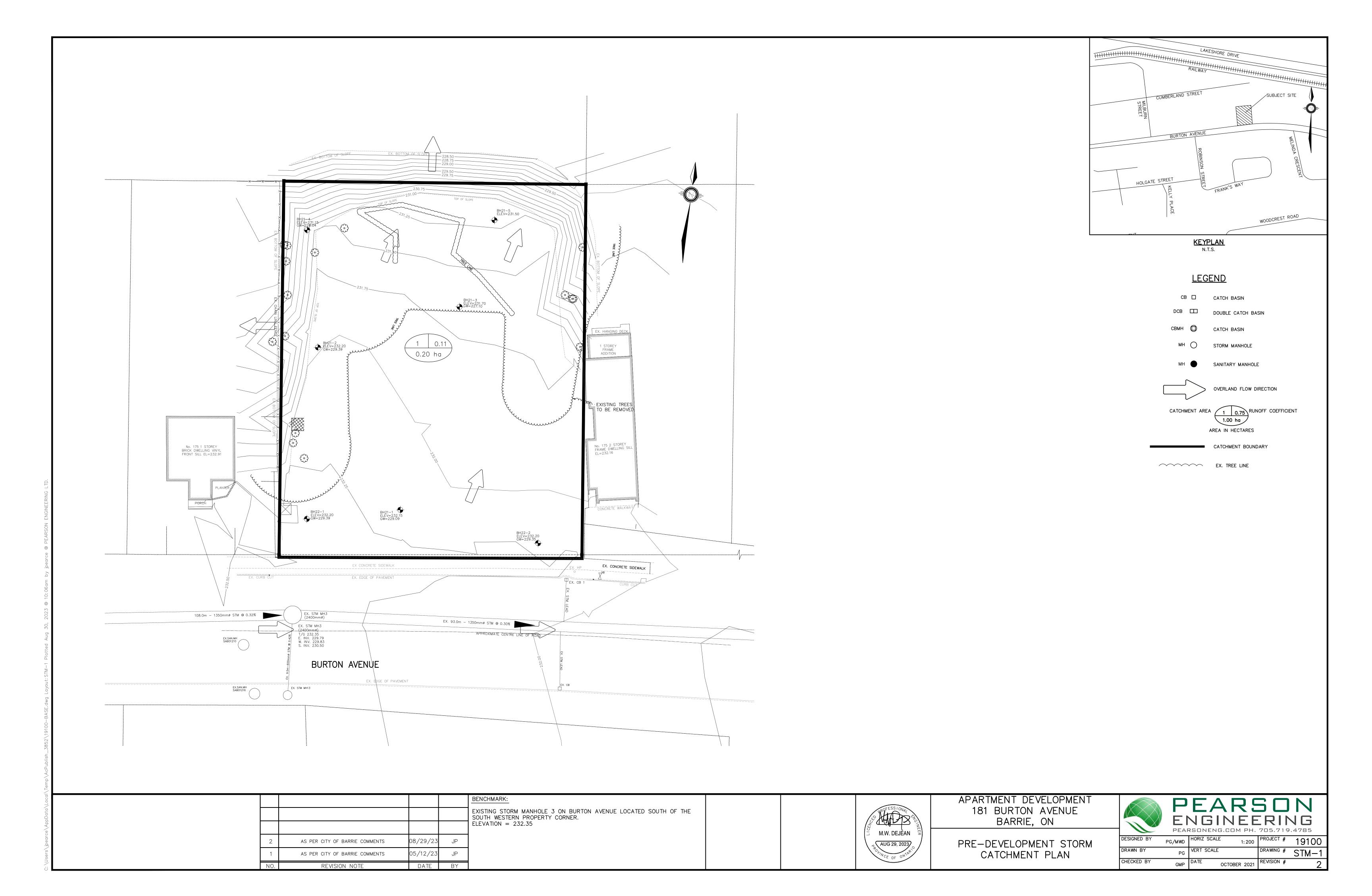
TACTILE WALKING SURFACE INDICATOR, OPSD 310,039

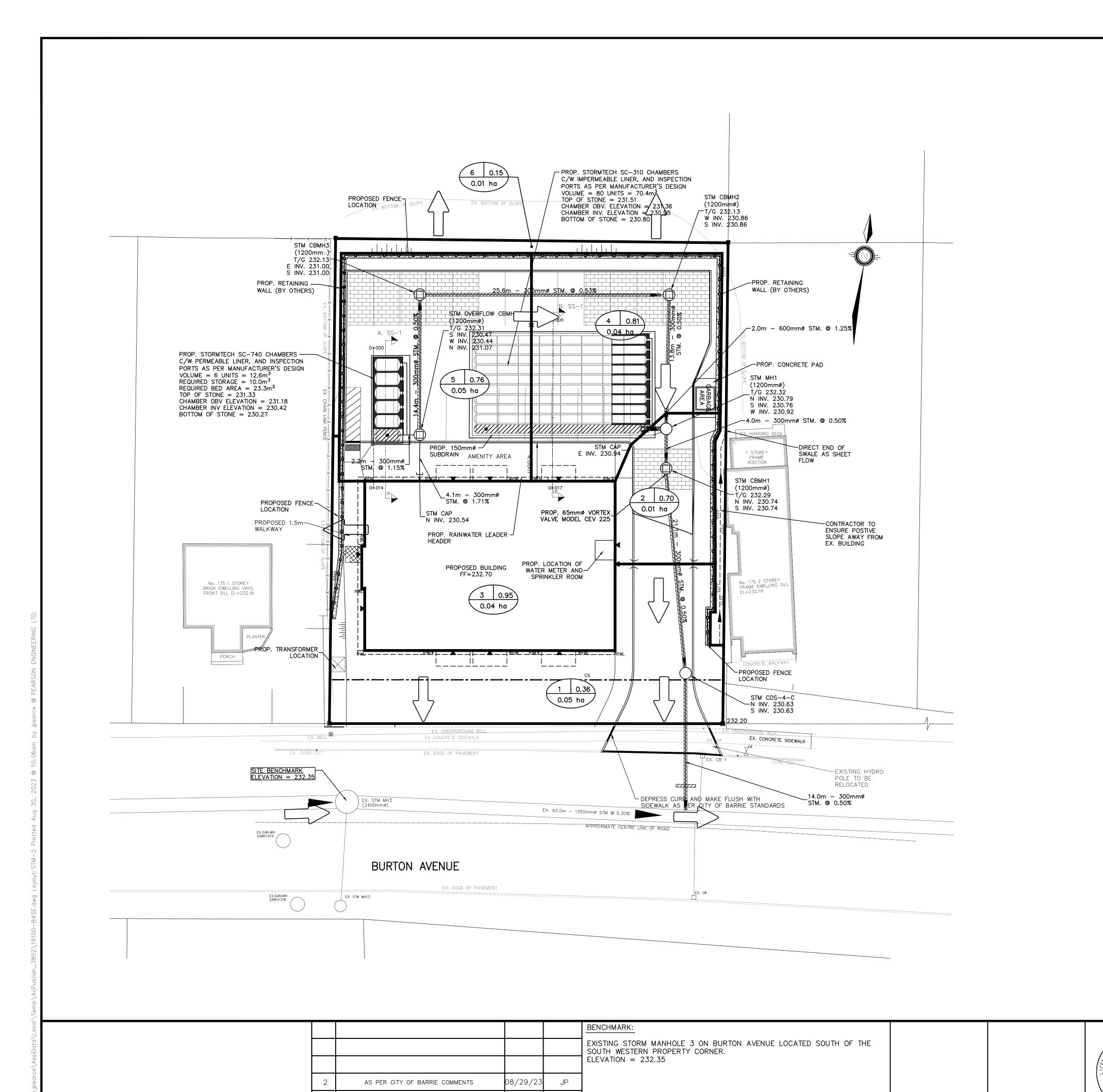
BOILLE CONCRETE SIDEWALK RAMPS

CHECKED BY





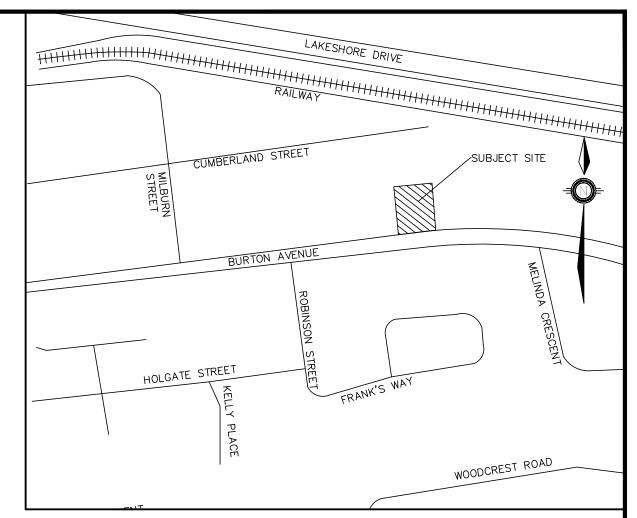




DATE BY

AS PER CITY OF BARRIE COMMENTS

REVISION NOTE



<u>KEYPLAN</u> N.T.S.

<u>LEGEND</u>

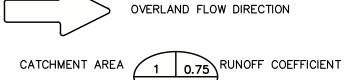
CB ☐ CATCH BASIN

DCB 🔲 DOUBLE CATCH BASIN

CATCH BASIN

STORM MANHOLE

SANITARY MANHOLE



1.00 ha √ AREA IN HECTARES

CATCHMENT BOUNDARY

PROP. PERMEABLE PAVERS

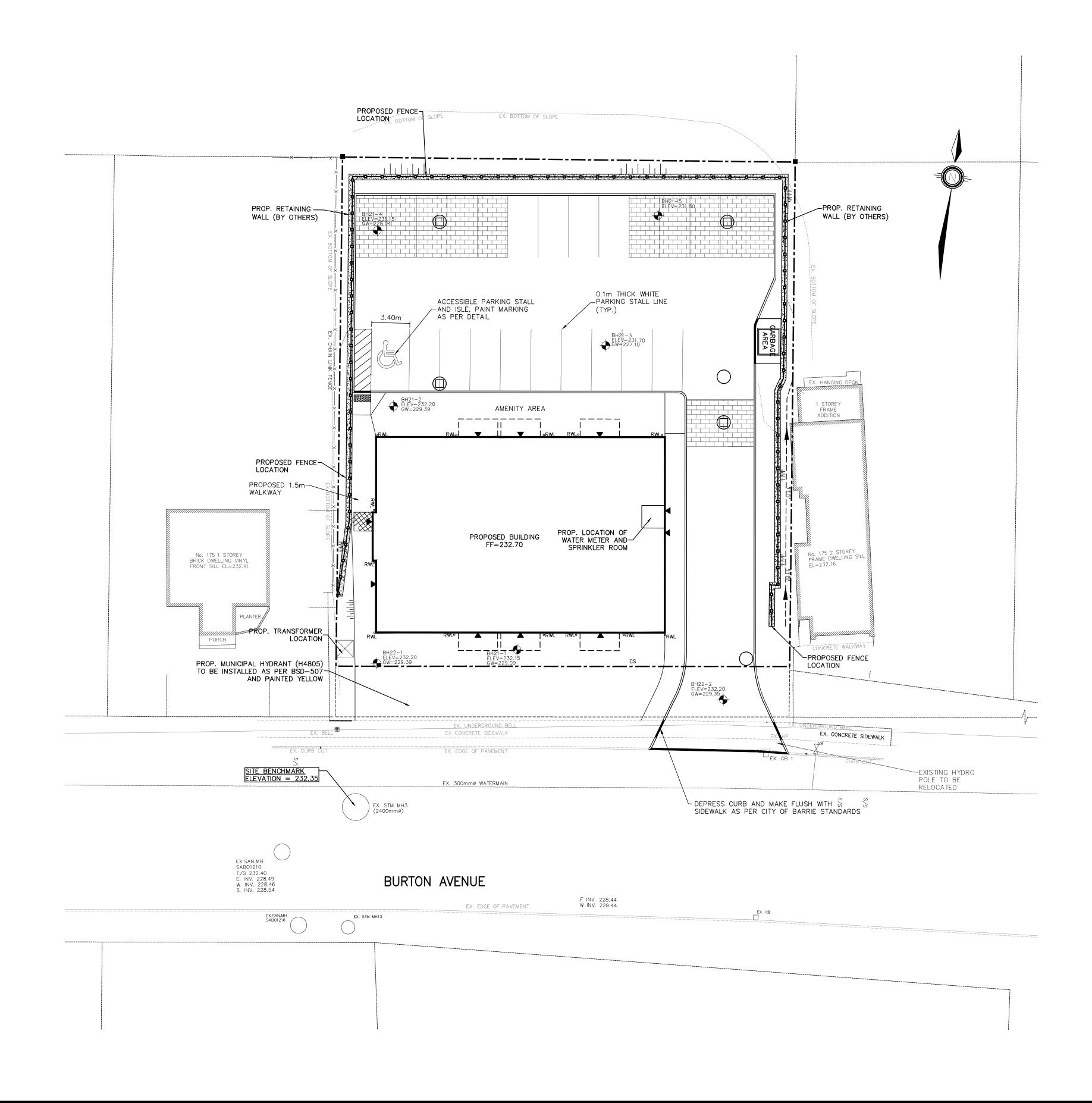
M.W. DEJÈAN

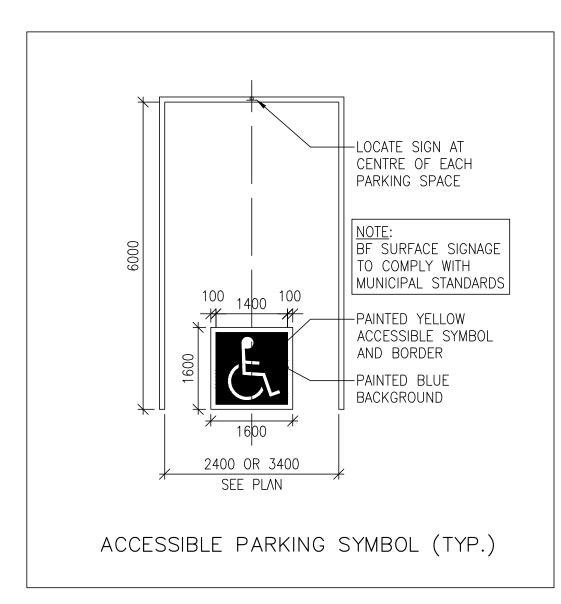
AUG 29, 2023

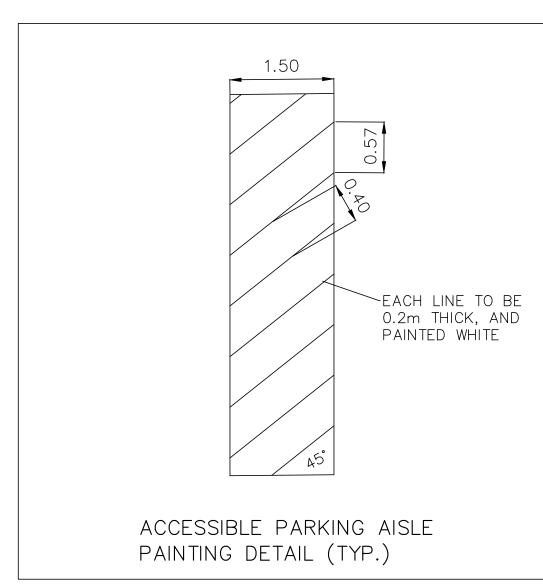
APARTMENT DEVELOPMENT 181 BURTON AVENUE BARRIE, ON

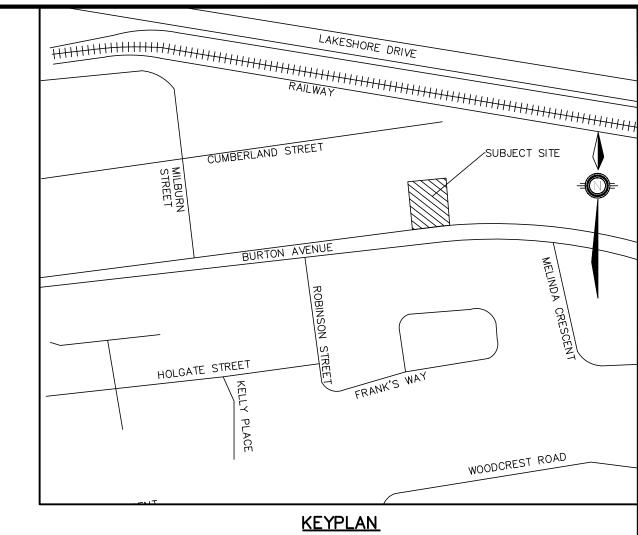
POST DEVELOPMENT STORM CATCHMENT PLAN

	ΕI	VGI	NEE	RII	٧G
	PEAF	RSONENG	.COM PH.	705.719	9.4785
DESIGNED BY	PG/MWD	HORIZ SCALE	1: 200	PROJECT #	19100
DRAWN BY	PG	VERT SCALE		DRAWING #	STM-2
CHECKED BY	GMP	DATE	OCTOBER 2021	REVISION #	1









N.T.S. LEGEND

CB ☐ CATCH BASIN

DCB DOUBLE CATCH BASIN

BMH 🗍 CATCH BASIN

STORM MANHOLE

SANITARY MANHOLE

SERVICE CAP

+ HYD. → FIRE HYDRANT

VB WATER VALVE

BACK OF CURB

EDGE OF PAVEMENT

CURB CUT LOCATION
) (HIGH POINT

RWL PROP. RAINWATER LEADER

▼ MANDOOR

PROP. RETAINING WALL (BY OTHERS)

PROP. PERMEABLE PAVERS

PROP. TACTILE PLATE

				BENCHMARK:
				EXISTING STORM MANHOLE 3 ON BURTON AVENUE LOCATED SOUTH OF THE SOUTH WESTERN PROPERTY CORNER.
				ELEVATION = 232.35
2	AS PER CITY OF BARRIE COMMENTS	08/29/23	JP	
1	AS PER CITY OF BARRIE COMMENTS	05/12/23	JP	
NIO	DEVICION NOTE		DV	1



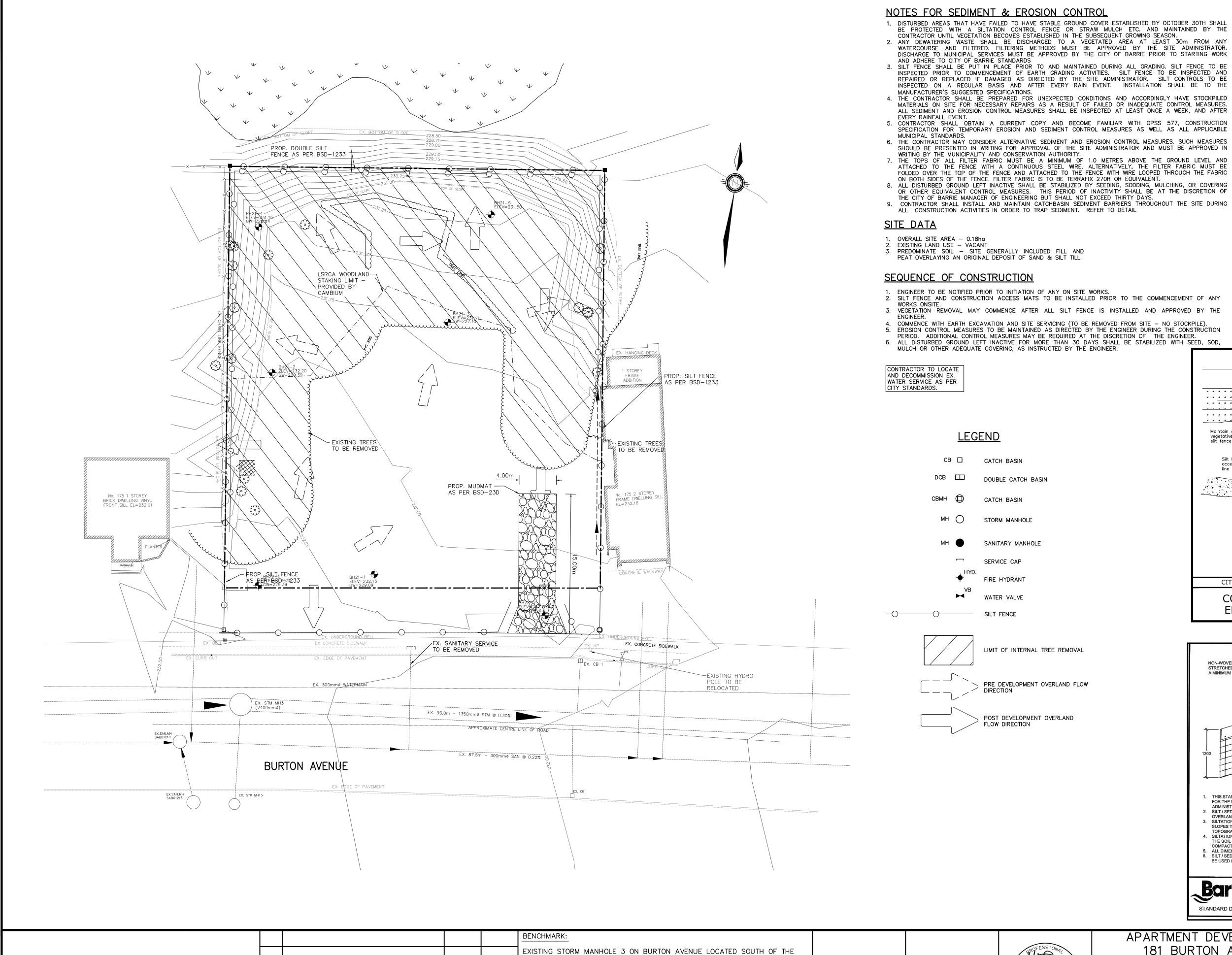
APARTMENT DEVELOPMENT 181 BURTON AVENUE BARRIE, ON

PAVEMENT MARKING AND SIGNAGE PLAN

	ΕI	EA VGIN REDNENG.C	1EE	RIN	1G
DESIGNED BY	PG/MWD	HORIZ SCALE	1: 200	PROJECT #	19100
DRAWN BY	PG	VERT SCALE		DRAWING #	PM-1

CHECKED BY

OCTOBER 2021 REVISION #



AS PER CITY OF BARRIE COMMENTS

AS PER CITY OF BARRIE COMMENTS

REVISION NOTE

SOUTH WESTERN PROPERTY CORNER.

ELEVATION = 232.35

5/12/23

DATE

BY

NOTES FOR SEDIMENT & EROSION CONTROL

- 1. 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. DISCHARGE TO MUNICIPAL SERVICES MUST BE APPROVED BY THE CITY OF BARRIE PRIOR TO STARTING WORK
- AND ADHERE TO CITY OF BARRIE STANDARDS 3. 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 SUGGESTED SPECIFICATIONS.
- 4. 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.
- 5. 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.
- 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. 8. ALL DISTURBED GROUND LEFT INACTIVE 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 CITY OF BARRIE MANAGER OF ENGINEERING BUT SHALL NOT EXCEED THIRTY DAYS. 9. CONTRACTOR SHALL INSTALL AND MAINTAIN CATCHBASIN SEDIMENT BARRIERS THROUGHOUT THE SITE DURING ALL CONSTRUCTION ACTIVITIES IN ORDER TO TRAP SEDIMENT. REFER TO DETAIL

SITE DATA

- OVERALL SITE AREA 0.18ha EXISTING LAND USE - VACANT
- PREDOMINATE SOIL SITE GENERALLY INCLUDED FILL AND PEAT OVERLAYING AN ORIGINAL DEPOSIT OF SAND & SILT TILL

SEQUENCE OF CONSTRUCTION

- ENGINEER TO BE NOTIFIED PRIOR TO INITIATION OF ANY ON SITE WORKS. 2. SILT FENCE AND CONSTRUCTION ACCESS MATS TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY
- 3. VEGETATION REMOVAL MAY COMMENCE AFTER ALL SILT FENCE IS INSTALLED AND APPROVED BY THE
- 4. COMMENCE WITH EARTH EXCAVATION AND SITE SERVICING (TO BE REMOVED FROM SITE NO STOCKPILE). 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. 6. 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.

CONTRACTOR TO LOCATE AND DECOMMISSION EX. WATER SERVICE AS PER CITY STANDARDS.

LEGEND

CATCH BASIN

DOUBLE CATCH BASIN

STORM MANHOLE

SERVICE CAP

WATER VALVE

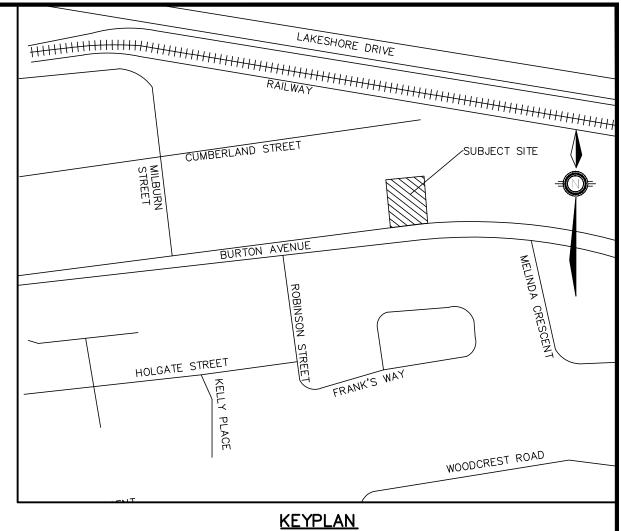
SILT FENCE

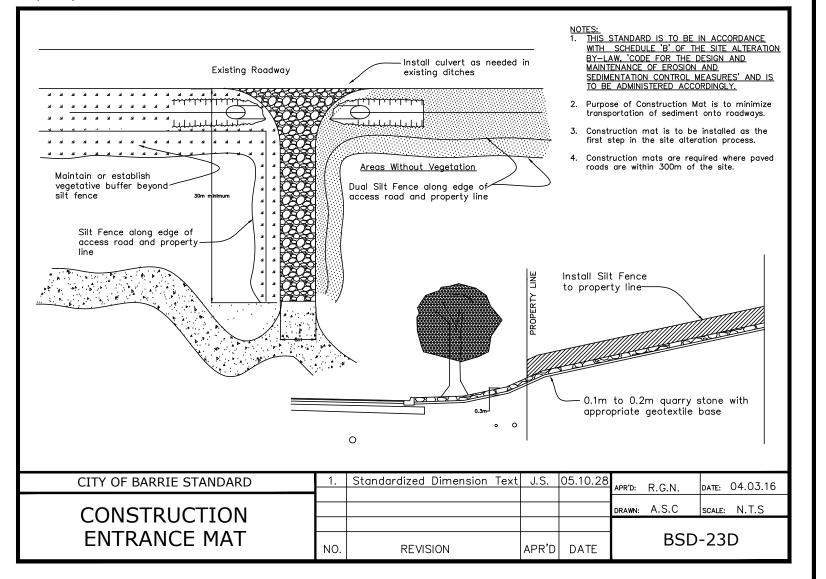
SANITARY MANHOLE

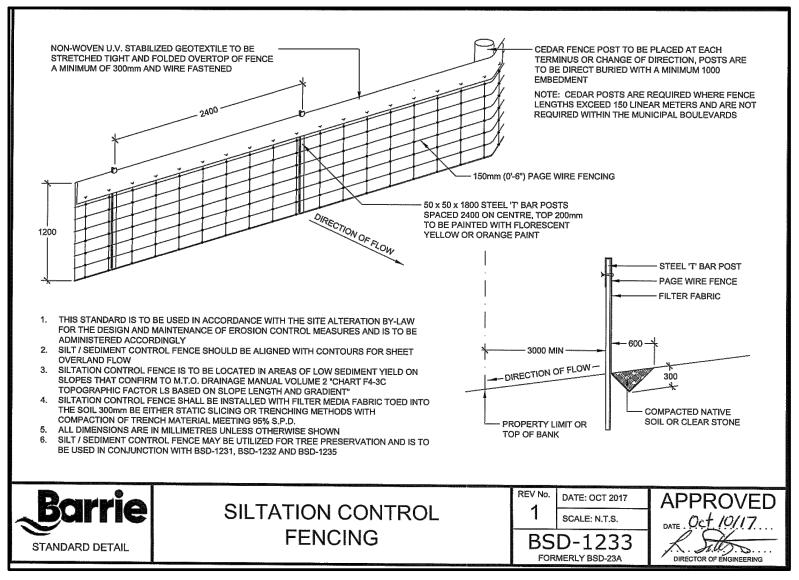


PRE DEVELOPMENT OVERLAND FLOW









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M.W. DEJEAN	NEER
AUG 29, 2023	
POLINCE OF ONTAR	

APARTMENT DEVELOPMENT 181 BURTON AVENUE BARRIE, ON

EROSION PROTECTION & REMOVALS PLAN

	PEAR	
	ENGINE	CKING
	PEARSONENG.COM	PH. 705.719.4785
DESIGNED BY	HODIZ SCALE	DPO IFCT #

	PEAF	RSONENG.COM PH	705.719.4785		
DESIGNED BY	PG/MWD	HORIZ SCALE 1: 200	PROJECT # 19100		
DRAWN BY	PG	VERT SCALE	DRAWING # EPR-1		
CHECKED BY	GMP	DATE OCTOBER 2021	REVISION # 2		