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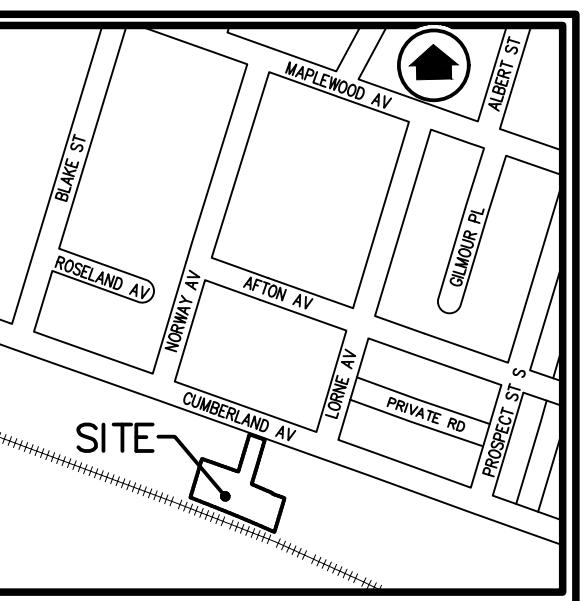
NOTES TO CONTRACTOR:

- INSPECTION**
CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2. GENERAL REVIEW. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
- CONFIRMATION OF EXISTING INVERTS**
72 HOURS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS TO LOCATE, EXPOSE AND VERIFY INVERTS OF EXISTING SEWERS AT CONNECTION POINTS. SHOULD THE CONTRACTOR PROCEED WITHOUT COMPLETING THESE LOCATES, EXTRA COSTS RESULTING FROM DELAYS AND STANDBY TIME WILL NOT BE CONSIDERED.

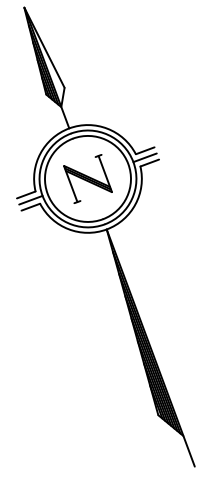
NOTE:
PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE ELEVATION OF ALL CONNECTION POINTS TO THE EXISTING SEWER AND WATERMAIN SYSTEMS AND REPORT ALL FINDINGS TO THE ENGINEER.

NOTE:
CONTRACTOR TO LOCATE EXISTING SERVICES TO SITE AND ABANDON/REMOVE PER CITY OF HAMILTON STANDARDS.

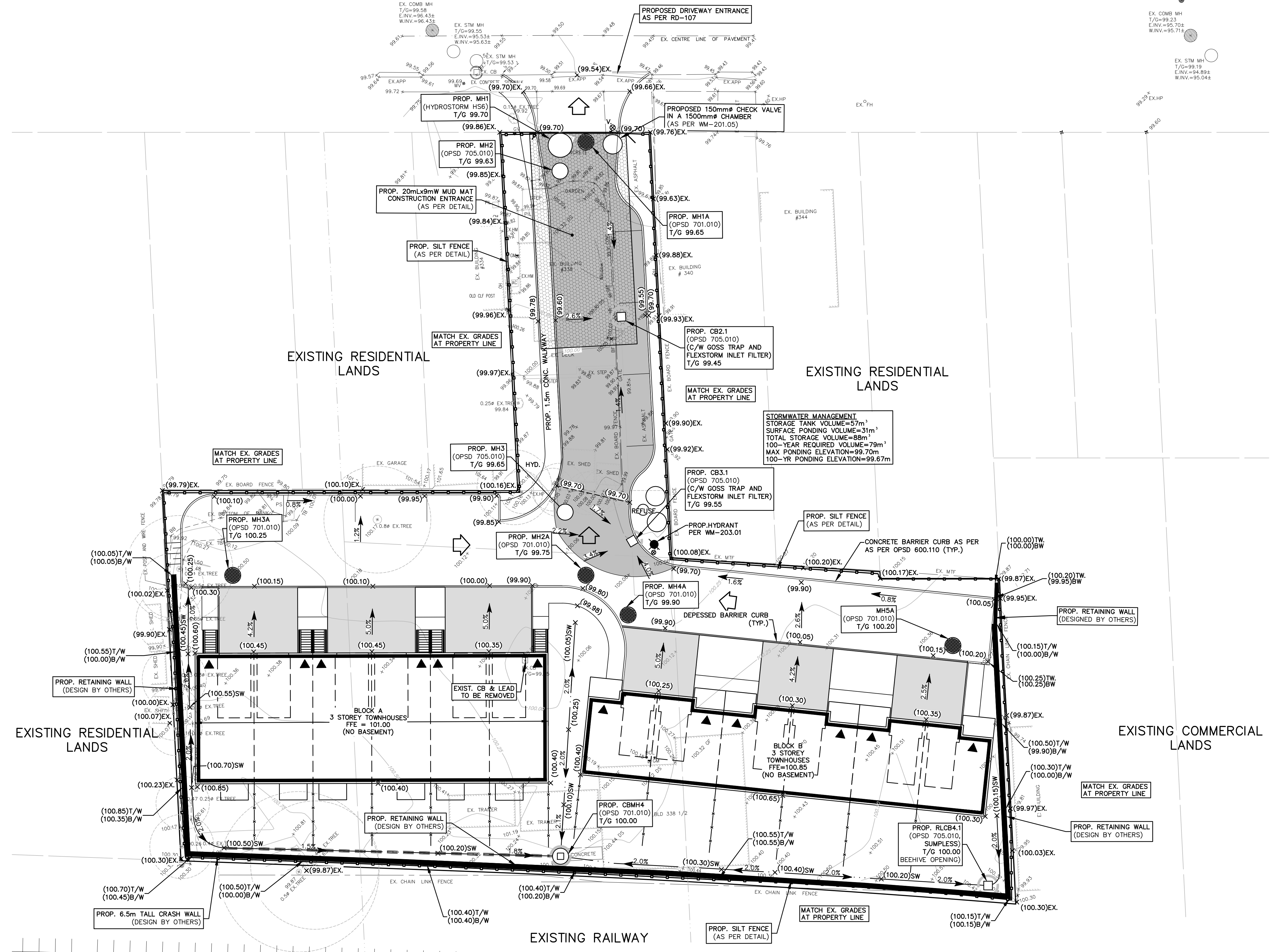
- LEGEND:**
- 209.00 EXISTING GROUND ELEVATION
 - X(209.00) PROPOSED GROUND ELEVATION
 - 209.00EX PROPOSED ELEVATION TO MATCH EXISTING
 - (209.00)TW PROPOSED ELEVATION TO MATCH TOP OF WALL
 - 2.0% PROPOSED DIRECTION OF SHEET FLOW
 - EXISTING CATCHBASIN
 - EXISTING STORM/SANITARY MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED STORM/SANITARY MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED SILTATION CONTROL FENCE
 - PROPOSED CATCHBASIN SILT SACK
 - OVERLAND FLOW ROUTE
 - PROPOSED CURB STOP/GATE VALVE
 - PROPOSED SWALE (AS PER DETAIL)
 - PROPOSED SUBDRAIN
 - EMBANKMENT (TOP) 3.1 MAX (BOTTOM)



KEY MAP
N.T.S.



CUMBERLAND AVENUE



BENCH MARK NOTE:
MONUMENT 001963U3498
ADELAIDE HOODESS SCHOOL ON THE NORTHWEST CORNER OF MAPLEWOOD AVENUE AND SPRINGER AVENUE, ONE BLOCK SOUTH OF MAIN STREET (HIGHWAY NO. 8), 2.9km EAST OF THE POST OFFICE, TABLET IN THE SOUTH CONCRETE FOUNDATION WALL OF THE MOST SOUTHEASTERLY OR NEWEST PORTION OF SCHOLL, 1.21m WEST OF THE SOUTHEAST CORNER AND 12cm BELOW RED BRICK SIDING.
ELEVATION: 94.135 metres CGVD-1928:1978

NO.	DATE	BY	REVISIONS
2.	APR 26/23	YM	REVISED SITE PLAN.
1.	MAR 21/23	YM	REVISED PER CITY COMMENTS.

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- ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, REVISED, OR REVISED WITHOUT THE WRITTEN CONSENT OF S. LLEWELLYN AND ASSOCIATES LIMITED.

DESIGN	SN	CHK'D	SN	DATE
DRAWN	AS	CHK'D	SN	April 26, 2023

SCALE 1:200

APPROVALS

STAMP

S. LLEWELLYN & ASSOCIATES LIMITED
CONSULTING ENGINEERS
Tel. (905) 631-6978
Website: www.sla.on.ca
email: info@sla.on.ca
3228 South Service Road, Suite #105 East Wing, Burlington, Ont., L7N 3H8

CLIENT
B.I.Z. MECHANICAL INC.
338 CUMBERLAND AVE.
HAMILTON, ON

PROJECT NAME
338 & 338 1/2 CUMBERLAND AVE.
HAMILTON, ON

TITLE
**PRELIMINARY GRADING & EROSION
SEDIMENT CONTROL PLAN**

PROJECT No. 21081 DRAWING No. C101

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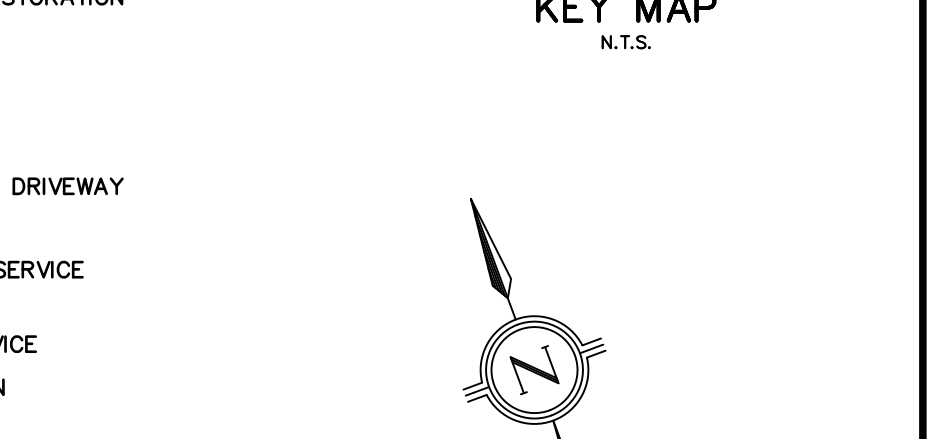
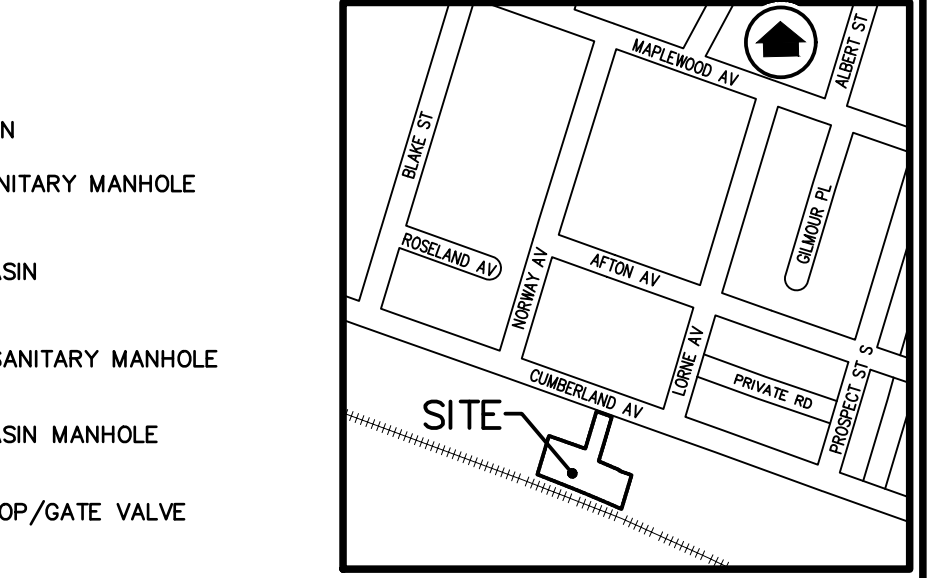
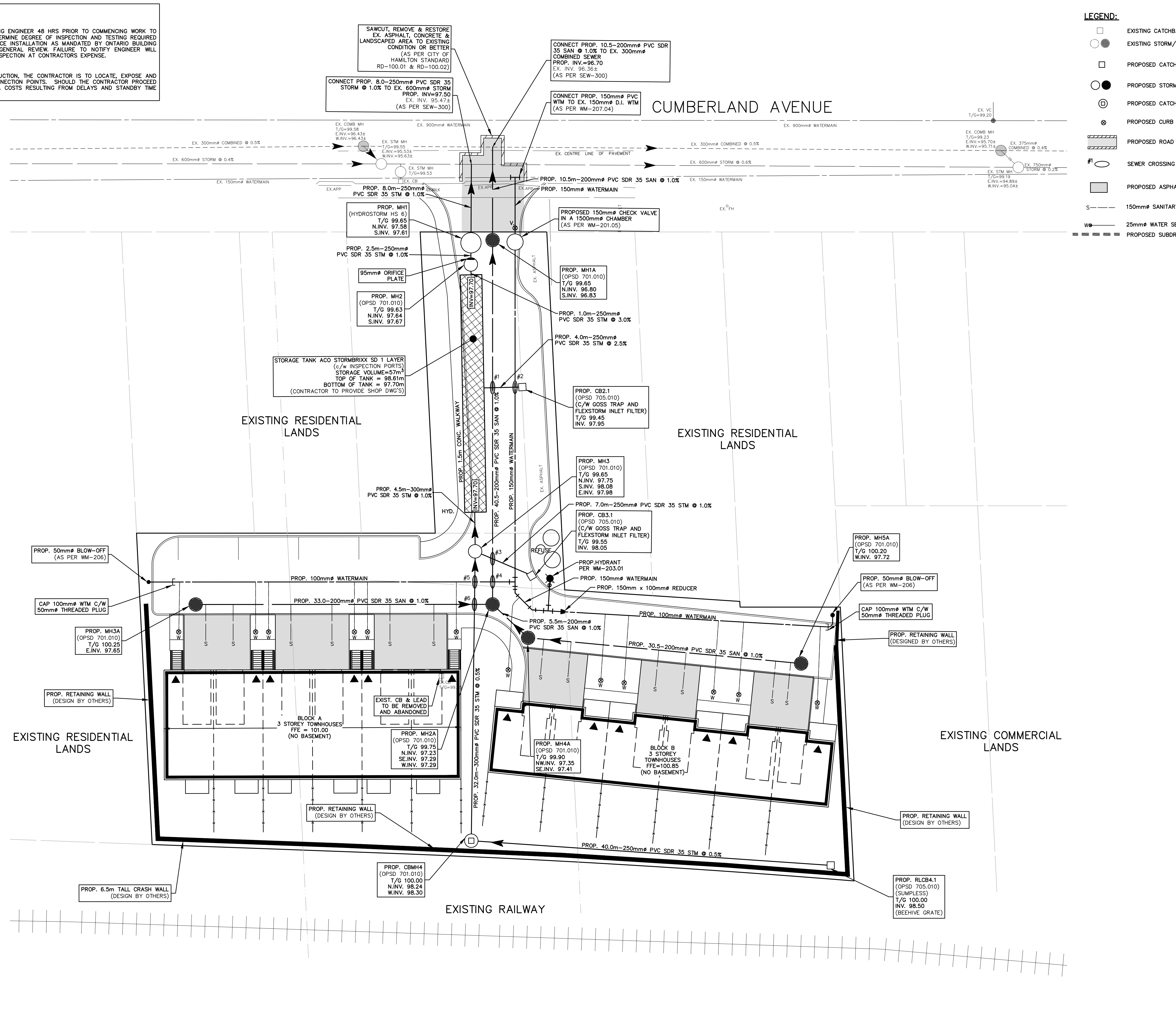
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SEWER & WATER CROSSING CHART:

CROSSING NO. 1 (STM & SAN)	STM. INV.=97.87 SAN. OBV.=97.16 (SEPARATION=0.68m)
CROSSING NO. 2 (STM & WTM)	STM. INV.=97.95 WTM. OBV.=97.45 (SEPARATION=0.50m)
CROSSING NO. 3 (STM & SAN)	STM. INV.=98.00 SAN. OBV.=97.38 (SEPARATION=0.62m)
CROSSING NO. 4 (SAN & WTM)	STM. INV.=98.10 WTM. OBV.=96.70 (SEPARATION=0.50m)
CROSSING NO. 5 (STM & WTM)	STM. INV.=98.11 WTM. OBV.=96.70 (SEPARATION=1.40m)
CROSSING NO. 6 (STM & SAN)	STM. INV.=97.51 SAN. OBV.=97.51 (SEPARATION=0.60m)



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SCALE 1:200

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CLIENT
B.I.Z. MECHANICAL INC.
338 CUMBERLAND AVE.
HAMILTON, ON

PROJECT NAME
338 & 338 1/2 CUMBERLAND AVE.
HAMILTON, ON

TITLE
PRELIMINARY SERVICING PLAN

PROJECT No.	DRAWING No.
21081	C102

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GENERAL NOTES

- 1. THIS/THESE PLAN(S) IS/ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SEALED BY THE ENGINEER AND INDICATED ISSUED FOR CONSTRUCTION ON THE DRAWING.
2. THIS/THESE PLAN(S) IS/ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF S. LLEWELLYN AND ASSOCIATES LIMITED.
3. INFORMATION REGARDING ANY EXISTING SERVICES AND/OR UTILITIES SHOWN ON THE APPROVED SET OF CONSTRUCTION DRAWINGS ARE FURNISHED AS THE BEST AVAILABLE INFORMATION...

GRADING NOTES

- A. ALONG ADJOINING PROPERTIES GRADE TO MEET EXISTING OR PROPOSED ELEVATIONS WITH SODDED SLOPES (MIN. 3H TO 1V) AND/OR RETAINING WALLS AS SPECIFIED.
B. ALL RETAINING WALLS, WALKWAYS, CURBS, ETC., SHALL BE PLACED A MIN. OF 0.45m FROM THE PROPERTY LINE. ALL WALLS 1.0m OR HIGHER SHALL BE DESIGNED BY A P.E.N.G.
C. SHOULD A RETAINING WALL BE REQUIRED, THE TOP OF WALL ELEVATIONS SHALL BE SET 150mm ABOVE THE PROPOSED SIDE YARD SWALES.

WATERMANS AND WATER SERVICES (CON'T)

- 7. HYDRANTS
A. TO BE INSTALLED WITH SECONDARY VALVES AS PER WM-203.01 OR WM-203.02 AS DETAILED. THEY SHALL OPEN COUNTER-CLOCKWISE (LEFT) AND HAVE A '1' PAINTED ON THE BARREL SECTION. THE 100mm PUMPER 'STORZ' CONNECTION SHALL FACE THE ROADWAY AND BE PAINTED BLACK.
B. ALL FIRE HYDRANTS SHALL CONFORM TO THE CITY OF HAMILTON (MUNICIPALITY) FIRE DEPARTMENT'S REQUIREMENTS AND SHALL BE OF SAME MANUFACTURE.

COMPACTION REQUIREMENTS

- A. ALL BEDDING AND BACKFILL MATERIAL, ROAD SUB-GRADES AND GENERALLY ALL MATERIAL USED FOR LOT GRADING AND FILL SECTIONS, ETC., SHALL BE COMPACTED TO MIN. 98% SPD. ALL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 300mm LIFTS.
B. ALL GRANULAR ROAD BASE MATERIALS SHALL BE COMPACTED TO 98% SPD.
C. FOR ALL SEWERS AND WATERMANS IN FILL SECTIONS, THE COMPACTION SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO LAYING OF PIPE.

SILTATION AND EROSION CONTROL

- A. SILTATION CONTROL BARRIERS SHALL BE PLACED AS DETAILED.
B. ALL SILTATION CONTROL MEASURES SHALL BE CLEANED AND MAINTAINED AFTER EACH RAINFALL AS DIRECTED AND TO THE SATISFACTION OF THE CITY OF HAMILTON AND/OR THE HAMILTON CONSERVATION AUTHORITY.
C. ADDITIONAL SILT CONTROL LOCATIONS MAY BE REQUIRED AS DETERMINED BY THE ENGINEER, THE CITY OF HAMILTON AND/OR THE HAMILTON CONSERVATION AUTHORITY.

WATERMANS AND WATER SERVICES

- 1. WATERMANS
B. CONSTRUCTION OF WATERMANS & PRIVATE SERVICES SHALL BE IN ACCORDANCE WITH CITY STANDARDS & SPECIFICATIONS (LATEST EDITION) AND MINISTRY OF ENVIRONMENT (MOE) GUIDELINES (LATEST EDITION).
C. ALL WATER SERVICES TO BE INSTALLED WITH A MINIMUM OF 1.6m COVER.
D. WATER SERVICE AND WATERMAIN BEDDING AND COVER MATERIAL TO BE INSTALLED AS PER WM-200.01 WITH GRANULAR 'A' FOR BOTH BEDDING AND COVER.

- 9. PRIOR TO CONSTRUCTION THE CONTRACTOR MUST:
i. CHECK AND VERIFY ALL DIMENSIONS AND EXISTING ELEVATIONS WHICH INCLUDE BUT ARE NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS, EXISTING INVERTS AND REPORT FINDING IN WRITING TO THE ENGINEER.
ii. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
iii. VERIFY ALL FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS WHICH MAY APPEAR ON THESE PLANS COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.

- 10. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ENGINEER 48 HOURS PRIOR TO THE COMMENCING SITE WORKS TO ARRANGE FOR INSPECTION. THE ENGINEER SHALL DETERMINE THE EXTENT OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF THE UNDERGROUND SERVICE INSTALLATION AS MANDATED BY THE ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2, GENERAL REVIEW. FAILURE TO MAKE SUITABLE ARRANGEMENTS FOR INSPECTION WILL LEAD TO POST CONSTRUCTION TESTING AND INSPECTION AS DETERMINED BY THE ENGINEER, THE COSTS OF WHICH INCLUDING ANY DELAYS IN CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR. FULL PAYMENT FOR UN-INSPECTED WORKS MAY BE WITHHELD UNTIL THE COMPLETION OF THE POST CONSTRUCTION INSPECTION AND TESTING TO THE SATISFACTION OF THE ENGINEER.

- 11. INSPECTION BY THE OWNER'S ENGINEER IS FOR CERTIFICATION AND GENERAL CONFORMANCE PURPOSES AND DOES NOT CERTIFY LINE AND GRADE OR IMPLY AN ASSURANCE OF QUALITY CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THE INSTALLATION OF THE WORKS TO PROPER LINE, GRADE AND QUALITY TO CURRENT INDUSTRY STANDARDS.
12. ANY UTILITY RELOCATIONS AND RESTORATIONS DUE TO THE DEVELOPMENT TO BE UNDERTAKEN AT THE EXPENSE OF THE OWNER/DEVELOPER AND SHALL BE COORDINATED BY THE CONTRACTOR.

- 13. RESTORATION OF ROAD OVER UTILITY CUTS IN HAMILTON TO BE AS PER STANDARD DRAWINGS RD-101.01 AND RD-100.02, WITH GRANULAR A BEDDING.
14. SERVING CONTRACTOR TO MAINTAIN A "CONFINED TRENCH CONDITION" IN ALL SEWER AND WATERMAIN INSTALLATION TRENCHES.
15. THE SITE SERVING CONTRACTOR SHALL TERMINATE ALL SERVICES 1.0m FROM THE BUILDING FACE.
16. NO BLASTING WILL BE PERMITTED.

SEWERS

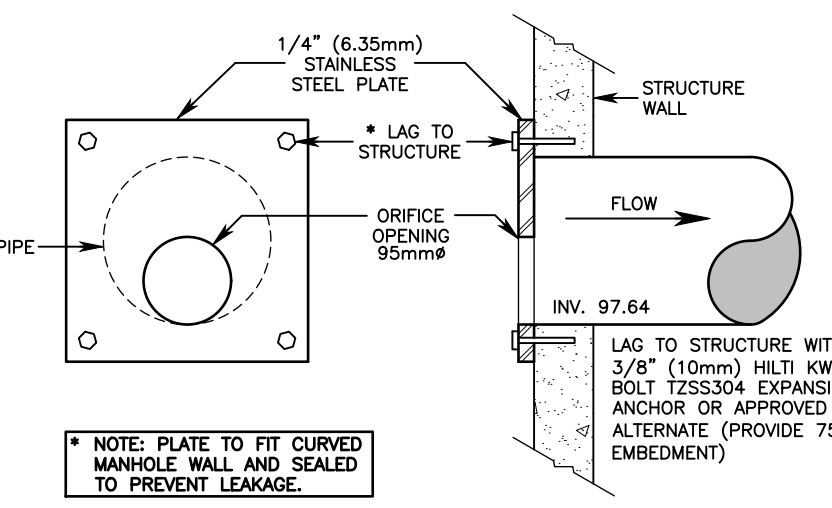
- 1. SANITARY AND STORM SEWERS
A. CONSTRUCTION OF SANITARY & STORM SEWERS & PRIVATE DRAINS SHALL BE IN ACCORDANCE WITH CITY STANDARDS & SPECIFICATIONS (LATEST EDITION) AND MINISTRY OF ENVIRONMENT (MOE) GUIDELINES (LATEST EDITION).
B. COVER AND BEDDING MATERIAL FOR CONCRETE PIPE SHALL BE GRANULAR 'A' MATERIAL AS PER OPSD 802.030 OR 802.033, CLASS 'B' BEDDING.
C. COVER AND BEDDING MATERIAL FOR PVC PIPE SHALL BE GRANULAR 'A' MATERIAL AS PER OPSD 802.010 OR 802.013.

- D. PVC PIPE WILL REQUIRE SPECIAL CONSTRUCTION PROCEDURES AS PER CITY SPECIFICATIONS.
E. ALL SEWERS TO BE VIDEO INSPECTED AS PER OPSD 409.
F. ALL SEWERS TO BE FLUSHED PRIOR TO VIDEO INSPECTION.
G. MANHOLE FRAMES AND COVERS SHALL BE AS PER OPSD 401.010 (STORM-OPEN, SANITARY-CLOSED).
H. CATCHBASIN FRAMES AND GRATES SHALL BE AS PER OPSD 400.100 IN PAVED AREA AND 400.120 IN LANDSCAPED AREAS.

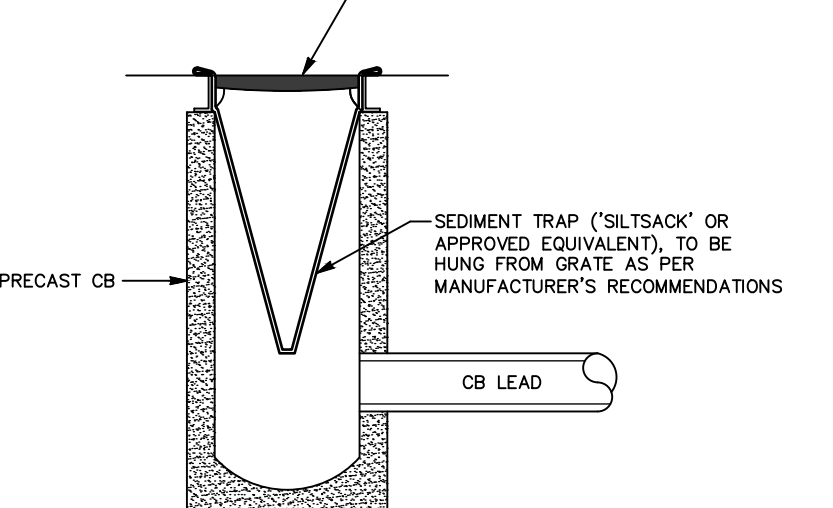
- I. SANITARY SEWERS 200mm TO 375mm IN DIAMETER SHALL BE PVC PIPE, CSA B182.2, SDR-35.
J. STORM SEWERS 200mm TO 600mm IN DIAMETER SHALL BE PVC PIPE, CSA B182.2, SDR-35.
K. ALL PVC STORM SEWERS ARE TO BE TESTED FOR DEFLECTION (MANDREL PASSAGE) AFTER INSTALLATION AS PER OPSD 410. SANITARY SEWERS SHALL BE TESTED FOR DEFLECTION (MANDREL PASSAGE) AND LEAKAGE (LOW AIR PRESSURE METHOD) AS PER OPSD 410.
L. ALL CATCH BASIN MAINTENANCE HOLES AND MAINTENANCE HOLES ARE TO BE SUMPLESS.
M. ALL EXISTING UNUSED SEWER DRAINS, SERVING A PROPERTY BEING REDEVELOPED, IN WHOLE OR IN PART, MUST BE REMOVED FROM MUNICIPAL PROPERTY I.e. ROAD ALLOWANCE ETC., WITH AN APPROPRIATE REPAIR TO THE MUNICIPAL SEWER MAIN TO WHICH THEY CONNECT, AND EITHER REMOVED FROM PRIVATE PROPERTY OR ABANDONED IN ACCORDANCE WITH CITY MINIMUM REQUIREMENTS I.e. PLUGGING AT EITHER END WITH A MINIMUM 300mm CONCRETE.

- N. SEWER DRAINS TO BE INSTALLED WITH A MINIMUM COVER OF 2.2m AT THE PROPERTY LINE BELOW THE FINAL ROAD GRADE OR AT SUCH HIGHER ELEVATION ONLY AS MAY BE NECESSITATED BY THE LEVEL OF THE MAIN SEWER ON PRIVATE PROPERTY THE MINIMUM COVER FOR SEWER DRAINS IS TO BE NO LESS THAN 1.2m.
O. 150mm DIAMETER PVC PIPE, CSA B182.1 M-1983, SDR 28 AS PER FORM 500. STORM PIPE SHALL BE WHITE AND SANITARY SHALL BE ANY COLOR OTHER THAN WHITE. COVER AND BEDDING MATERIAL FOR PRIVATE DRAINS SHALL BE GRANULAR "A" INSTALLED AS PER OPSD 802.010 OR 802.013.
P. CATCH BASIN CONNECTIONS TO BE 250mm DIAMETER PVC PIPE CSA B182.2, SDR-35 UNLESS OTHERWISE NOTED. SINGLE/DOUBLE STREET CATCH BASINS AS PER OPSD 705.010/705.020 RESPECTIVELY WITH GOSS TRAPS AS PER SEW-304. PRIVATE REAR YARD CATCH BASINS AS PER OPSD 705.010 (NO GOSS TRAPS). STREET CATCH BASIN GRATES AS PER OPSD 400.020 (FLAT) AND REAR YARD CATCH BASIN GRATES TO BE BEEHIVE TYPE GRATE AND COVER.

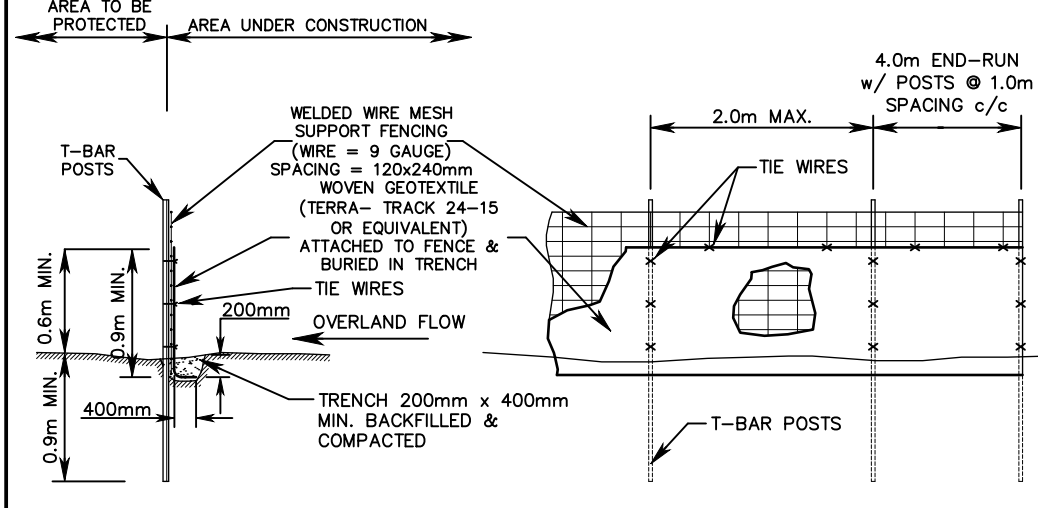
- A. FOR 100mm TO 300mm WATERMANS STANDARD CONCRETE ANCHOR BLOCKS AS PER WM-204.01.
B. WATERMAIN SHUTDOWN
A. MAXIMUM 4-HOUR SHUTDOWN OF EXISTING MAIN AT A TIME CONVENIENT TO THE CITY OF HAMILTON AND ADJUTING USERS.
B. CONTRACTOR TO GIVE 48-HOUR PRIOR NOTIFICATION USING THE "CITY OF HAMILTON NOTICE OF SHUTDOWN" FOR ALL AFFECTED AREAS.
C. IN THE EVENT A SCHEDULED SHUTDOWN IS CANCELLED BY THE CITY OF HAMILTON, THE CONTRACTOR SHALL HAVE NO CLAIMS AGAINST THE CITY.



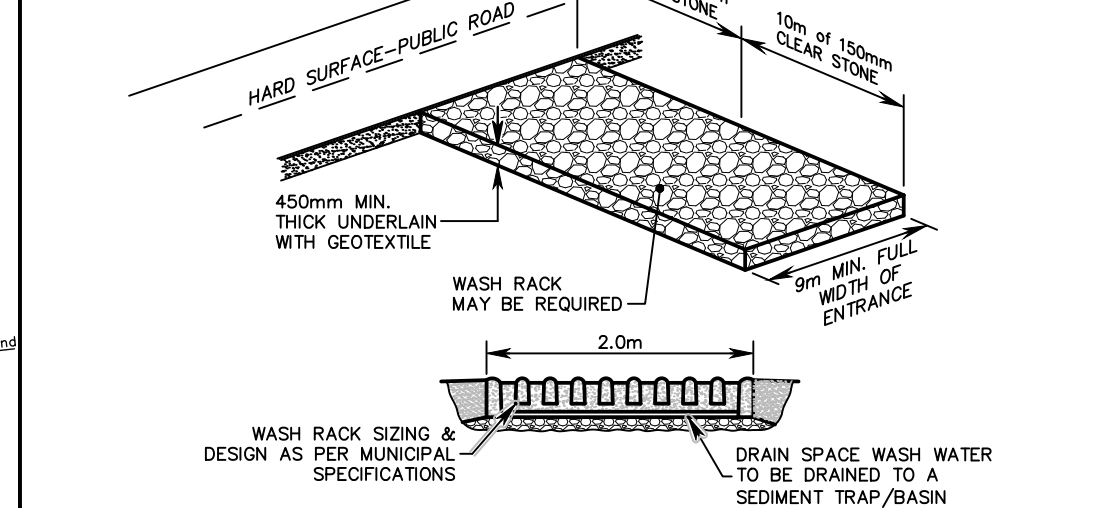
DETAIL 1 ON-LINE ORIFICE DETAIL AT MH2 SCALE: N.T.S.



DETAIL 2 STREET CATCH BASIN SEDIMENT TRAP SCALE: N.T.S.



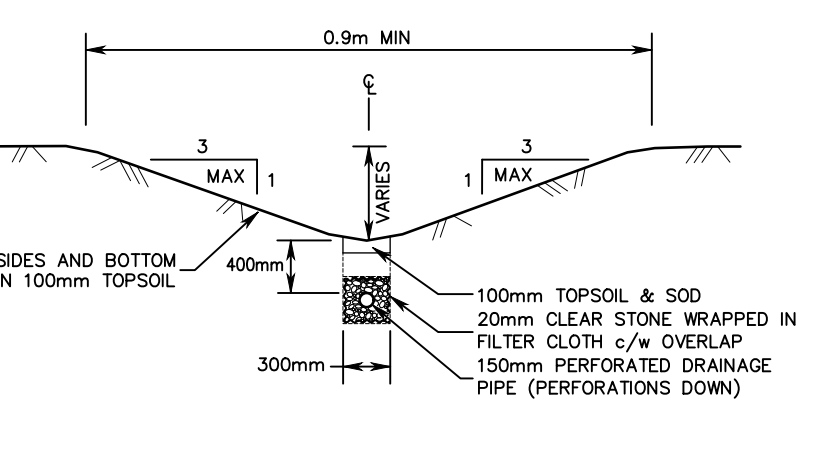
DETAIL 3 HEAVY-DUTY SILT FENCE (PER OPSD 219.130) SCALE: N.T.S.



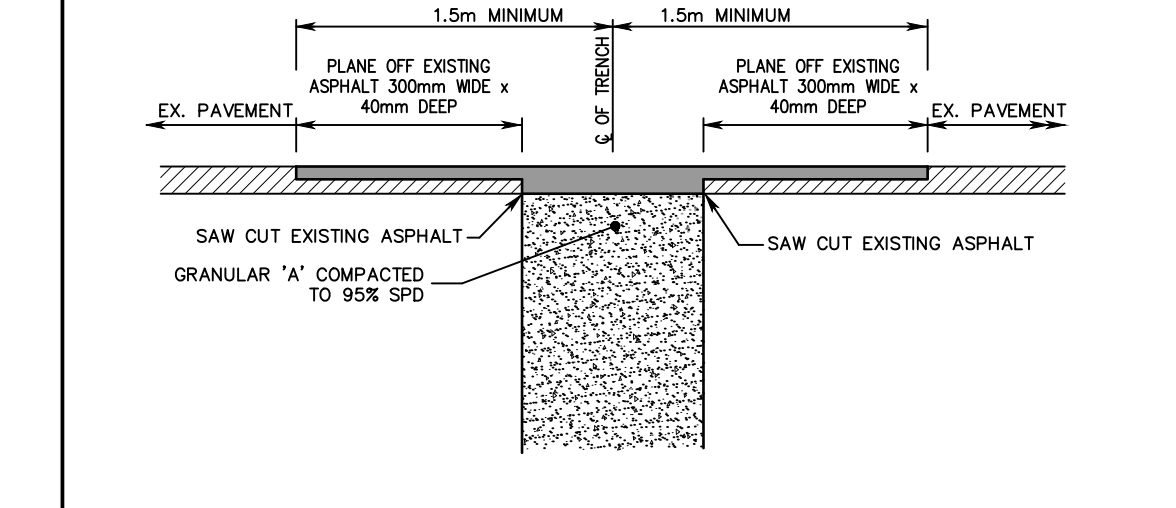
DETAIL 4 MUD MAT CONSTRUCTION ENTRANCE SCALE: N.T.S.

SEWER/WATER ABANDONMENT

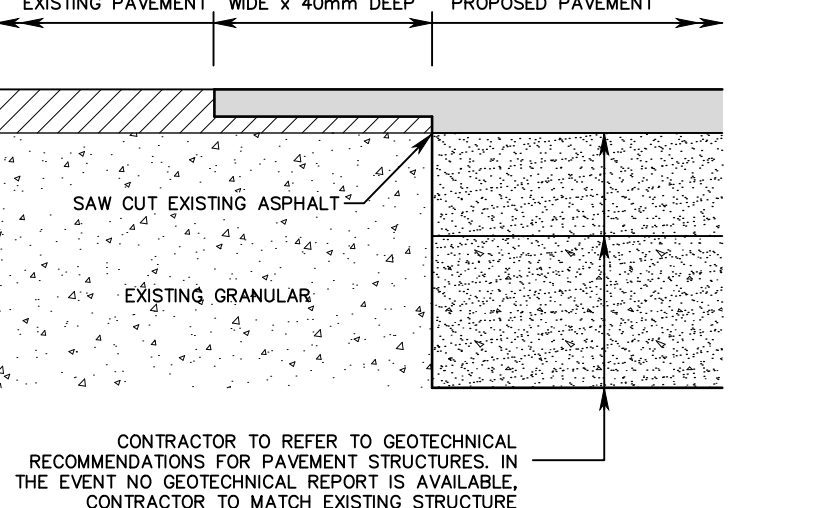
- 1. ALL EXISTING UNUSED SEWERS MUST BE PROPERLY ABANDONED BY DISCONNECTING SEWER AT THE MAIN AND GROUTING EITHER END OF THE SEWER WITH A MINIMUM 300mm OF CONCRETE.
2. UNUSED MAINTENANCE HOLES AND CATCHBASINS MUST BE COMPLETELY REMOVED.
3. OPENINGS IN MAINTENANCE HOLES AND CATCHBASINS WHERE SERVICES WERE REMOVED OR ABANDONED MUST BE BRICKED AND PARGED.
4. ALL EXISTING UNUSED WATER SERVICES MUST BE PROPERLY ABANDONED AS FOLLOWS:
4.1. FOR COPPER SERVICES: REMOVE CURB STOP, SHUT OFF MAIN STOP, CUT & CRIMP WATER SERVICE AT THE MAIN.
4.2. FOR PVC SERVICES: REMOVE GATE VALVE, REMOVE TEE AND REPLACE WITH SLEEVE. IF A TAPPING VALVE WAS USED, CONTACT THE CITY OF HAMILTON FOR FURTHER DIRECTION.



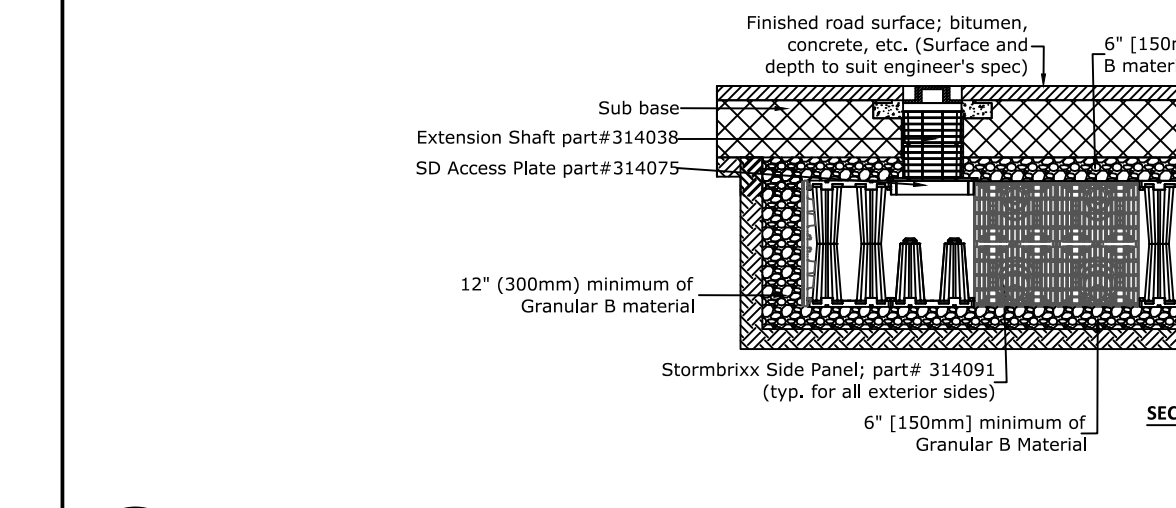
DETAIL 5 TYPICAL SWALE DETAIL SCALE: N.T.S.



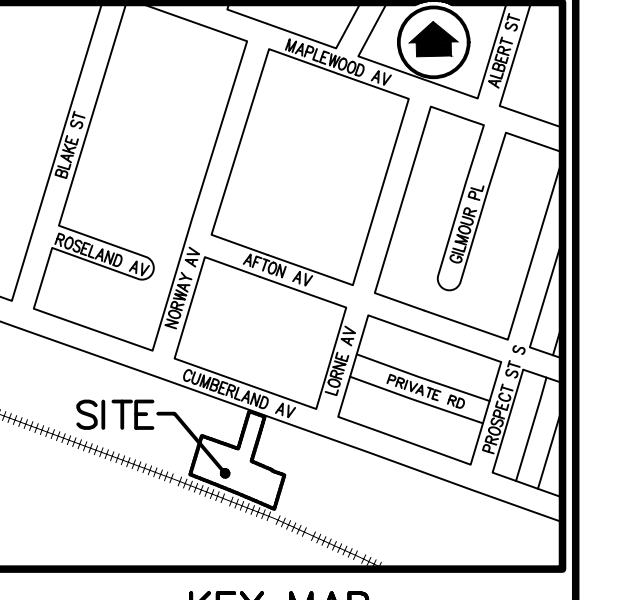
DETAIL 6 TRENCH RESTORATION DETAIL SCALE: N.T.S.



DETAIL 7 ASPHALT LAP JOINT SCALE: N.T.S.



DETAIL 8 STORMBRIXX SD TYPICAL SECTION SCALE: N.T.S.



BENCH MARK NOTE: MONUMENT 00196303498 ADELAIDE HOODLESS SCHOOL ON THE NORTHWEST CORNER OF MAPLEWOOD AVENUE AND SPRINGER AVENUE, ONE BLOCK SOUTH OF MAIN STREET (HIGHWAY NO. 8), 2.9km EAST OF THE POST OFFICE, TABLET IN THE SOUTH CONCRETE FOUNDATION WALL OF THE MOST SOUTHEASTERLY OR NEWEST PORTION OF SCHOLL, 1.21m WEST OF THE SOUTHEAST CORNER AND 12cm BELOW RED BRICK SIDING. ELEVATION: 94.135 metres CGVD-1928-1978

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4. THE POSITIONS OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVER-GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS, WHERE SHOWN ON THE DRAWINGS, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
5. ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, REUSED, OR REVISED WITHOUT THE WRITTEN CONSENT OF S. LLEWELLYN AND ASSOCIATES LIMITED.

Table with columns: DESIGN, SD, CHK'D, SN, DATE. Row 1: DESIGN SD CHK'D SN DATE. Row 2: DRAWN AS CHK'D SN April 26, 2023



APPROVALS table with columns: DESIGN, SD, CHK'D, SN, DATE. Row 1: DESIGN SD CHK'D SN DATE. Row 2: DRAWN AS CHK'D SN April 26, 2023

Stamp area for S. LLEWELLYN & ASSOCIATES LIMITED CONSULTING ENGINEERS. Includes logo, address (3228 South Service Road, Suite #105 East Wing, Burlington, Ont., L7N 3H8), phone (905) 631-6978, website www.sla.on.ca, and email info@sla.on.ca.

CLIENT: B.I.Z. MECHANICAL INC. 338 CUMBERLAND AVE. HAMILTON, ON

PROJECT NAME: 338 & 338 1/2 CUMBERLAND AVE. HAMILTON, ON

TITLE: PRELIMINARY GENERAL NOTES & DETAILS PLAN

Table with columns: PROJECT No., DRAWING No. Row 1: PROJECT No. 21081 DRAWING No. C103