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	EXISTING WATERMAIN
	EXISTING VALVE AND VALVE BOX
	EXISTING VALVE CHAMBER
	EXISTING REDUCER
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING CATCHBASIN MANHOLE
	EXISTING CATCHBASIN
	EXISTING SUBDRAIN CATCHBASIN

[illegible]

File Name: 160401837-DB.dwg	WAJ	PM	WAJ	25.03.20
	Dwn.	Chkd.	Dsan.	YY.MM.D

Client/Project
CITY OF OTTAWA

CEPEO ELEMENTARY SCHOOL
LOUISE-ARBOUR - 45 OAK STREET
OTTAWA, ON

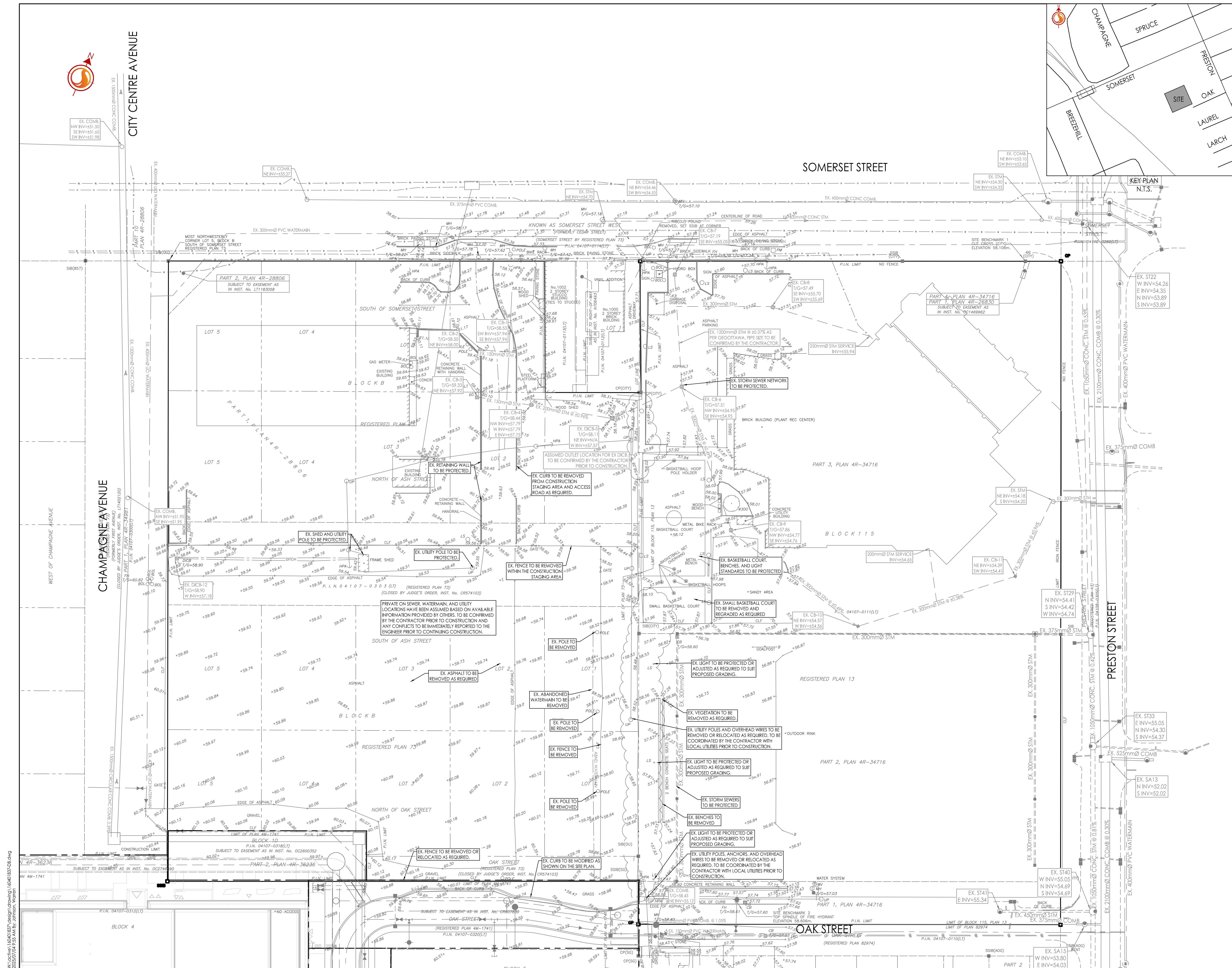
Title
EXISTING CONDITIONS
AND REMOVALS PLAN

Project No. 160401837

Scale 1:400

0 4 12 20m

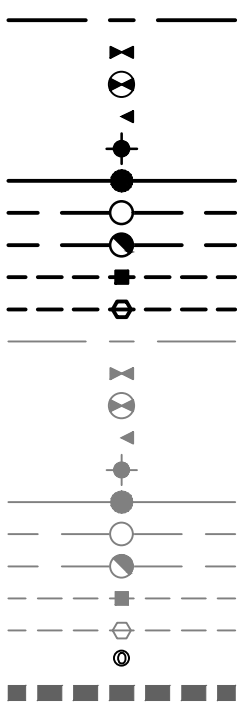
EX-1 1 of 7 2
PLAN # 1928



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Legend



Notes

2	REVISED AS PER CITY COMMENTS	WAJ	PM	25.07.04
1	ISSUED FOR REVIEW	WAJ	PM	25.04.29
Revision				
By	Appd.	YJ.M.M.DD		
File Name:	160401837-D8.dwg	WAJ	PM	25.03.20
		Dwn.	Chkd.	Dsgn.
Permit-Seal				
Client/Project				
CITY OF OTTAWA				
CEPEO ELEMENTARY SCHOOL LOUISE-ARBOUR - 45 OAK STREET OTTAWA, ON				
Title				
SITE SERVICING PLAN				
Project No.	160401837	Scale	0 4 12 20m 1:400	
Drawing No.		Sheet		Revision
SSP-1		2 of 7		2

GENERAL NOTES

- ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- ALL WORK AND MATERIALS TO CONFORM WITH CURRENT MINISTRY OF THE ENVIRONMENT & ENERGY OF ONTARIO, CITY OF OTTAWA AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS. LOCAL UTILITY STANDARDS AND MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.
- THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND COORDINATION WITH ALL OTHER CONTRACTORS AND PREVENT CONSTRUCTION CONFLICTS.
- THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS PROVIDED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY EACH UTILITY PRIOR TO COMMENCEMENT OF WORK. ANY VARIANCE IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.
- ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND TO BEAR THE COST OF SAME INCLUDING WATER PERMIT AND ASSOCIATED COSTS.
- ALL DISTURBED AREAS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION. THE ENGINEER AND THE CITY OF OTTAWA. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R10, OPSD 509.010 AND OPS3.310.
- BENCHMARKS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SITE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON DRAWING GP-1.
- THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER 1 [ONE] SET OF AS CONSTRUCTED SITE SERVICING, GRADING, AND SITE ELECTRICAL DWGS.
- CONTRACTOR TO LOCATE EXISTING SERVICE LATERALS PRIOR TO CONSTRUCTION. EXISTING STORM AND SANITARY SERVICE LATERALS TO BE ABANDONED PER S11.4. EXISTING WATER SERVICE TO BE BLANKED AT THE MAIN [TYP.]
- TOPOGRAPHIC SURVEY SUPPLIED BY CALLOTT DIETZ INCORPORATED DATED FEBRUARY 26, 2025 FILE NO. 25-27060.
- SITE PLAN PREPARED BY HOBBIN ARCHITECTURE DATED JULY 2, 2025. PROJECT NO. 2457.
- GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP DATED MARCH 21, 2025. REPORT NO. PG7468-1. GEOTECHNICAL INFORMATION PRESENTED ON THESE DRAWINGS MAY BE INTERPOLATED FROM THE ORIGINAL REPORT. REFER TO ORIGINAL GEOTECHNICAL REPORT FOR ADDITIONAL DETAILS AND TO VERIFY ASSUMPTIONS MADE HERE.
- REFER TO LANDSCAPE ARCHITECTURE PLAN FOR ALL LANDSCAPING FEATURES (i.e. TREES, WALKWAYS, PARK DETAILS, NOISE BARRIERS, FENCES etc.)
- STREET LIGHTING TO CITY OF OTTAWA STANDARDS.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO ENGINEER.
- THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL BY THE CONTRACT ADMINISTRATOR AND PROJECT ENGINEER HAS BEEN OBTAINED.
- HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE TO BE NOTIFIED IF DEEPLY BURIED ARCHEOLOGICAL REMAINS ARE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES.

WATER SUPPLY SERVICING

- THE CONTRACTOR SHALL CONSTRUCT WATERMAIN, WATER SERVICES, CONNECTIONS & APPURTENANCES AS PER CITY OF OTTAWA SPECIFICATIONS & SHALL CO-ORDINATE AND PAY ALL RELATED COSTS INCLUDING THE COST OF CONNECTION, INSPECTION & DISINFECTION BY CITY PERSONNEL.
- WATERMAIN PIPE MATERIAL SHALL BE PVC CL 150 DR18. DEFLECTION OF WATERMAIN PIPE IS NOT TO EXCEED 1/2 OF THAT SPECIFIED BY THE MANUFACTURER. PVC WATERMAINS TO BE INSTALLED WITH TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W36.
- WATER SERVICES ARE TO BE PEX PIPE AS PER CITY OF OTTAWA STANDARD W26 (UNLESS OTHERWISE NOTED). STAND POSTS TO BE INSTALLED AT PROPERTY LINE.
- WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W17 UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL TO BE SPECIFIED BY PROJECT GEOTECHNICAL CONSULTANT.
- SERVICE CONNECTIONS SHALL BE INSTALLED A MINIMUM OF 2400mm FROM ANY CATCHBASIN, MANHOLE, OR OBJECT THAT MAY CONTRIBUTE TO FREEZING. THERMAL INSULATION SHALL BE INSTALLED ON ALL PROPOSED CBS ON THE W/M STREET SIDE WHERE 2400mm SEPARATION CANNOT BE ACHIEVED (AS PER CITY OF OTTAWA STD. W22 & W23).
- CATHODIC PROTECTION TO BE SUPPLIED ON METALIC FITTINGS AS PER CITY OF OTTAWA STD. W40 AND W42.
- ALL WATERMAIN BENDS, JOINTS, TEES AND PLUGS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
- ALL WATERMAINS SHALL HAVE MIN. COVER OF 2.4m. WATERMAINS ARE TO BE INSTALLED TO THE ELEVATIONS SHOWN ON THE APPROVED SITE SERVICING DRAWING. WHERE SPECIFIC WATERMAIN ELEVATIONS ARE NOT SHOWN ON THE SERVICING DRAWING, A MINIMUM COVER OF 2.4m FROM PROPOSED GRADES, AS SHOWN ON THE GRADING PLAN, MUST BE MAINTAINED AT ALL TIMES. IN FREEZE AREAS COVER TO BE FROM PREGRADED ELEVATIONS. WHERE WATERMAIN COVER IS LESS THAN 2.4m, INSULATION TO BE SUPPLIED IN ACCORDANCE WITH CITY OF OTTAWA STD. W22.
- WATERMAINS MUST COMPLY WITH MINIMUM HORIZONTAL AND VERTICAL CLEARANCES IN ACCORDANCE WITH LOCAL PROVINCIAL GUIDELINES AND THE APPLICABLE BUILDING AND PLUMBING CODE. WHERE HORIZONTAL SEPARATIONS CANNOT BE ACHIEVED, APPROVAL FROM THE ENGINEER MUST BE OBTAINED AND A MINIMUM 500mm VERTICAL SEPARATION MUST BE MAINTAINED.
- ALL WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES UNLESS OTHERWISE DIRECTED. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC., MUST BE PROVIDED.
- ALL WATERMAINS SHALL BE BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES. ALL CHLORINATED WATER TO BE DISCHARGED AND PRETREATED TO ACCEPTABLE LEVELS PRIOR TO DISCHARGE. ALL DISCHARGED WATER MUST BE CONTROLLED AND TREATED SO AS NOT TO ADVERSELY EFFECT THE ENVIRONMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MUNICIPAL AND/OR PROVINCIAL REQUIREMENTS ARE FOLLOWED.
- FIRE HYDRANTS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W18 AND W19.
- WATER VALVES TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W24.
- THRUST BLOCKS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25.3 AND W25.4.
- WATERMAIN CROSSINGS ABOVE AND BELOW SEWERS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W25 AND W25.2.
- SERVICE SIZES, LOCATIONS, AND ELEVATIONS TO BE CONFIRMED BY THE MECHANICAL ENGINEER.

STORM AND SANITARY SEWERS

- STORM AND SANITARY SEWERS 375mm DIA. OR SMALLER SHALL BE PVC SDRS. SEWERS LARGER THAN 375mm SHALL BE CONCRETE CSA A 257.2 CLASS 1000 AS PER OPSD 807.010.
- SEWER TRENCH SHALL CONSIST OF CLASS "B" BEDDING PER CITY OF OTTAWA STANDARDS S6 AND S7. COMPACTION SHALL BE AS PER GEOTECHNICAL CONSULTANT RECOMMENDATIONS. THE BEDDING LAYER THICKNESS SHOULD BE INCREASED TO A MINIMUM OF 300mm WHERE THE SUBGRADE WILL CONSIST OF GREY SILTY CLAY. TRENCH EXCAVATIONS ADVANCED BELOW THE CLAY DEPOSIT AND THROUGHOUT THE UPPER PORTION OF THE LOOSE SILTY CLAY GLACIAL TILL MAY REQUIRE BEDDING THICKNESS IN THE RANGE OF 300 TO 400 mm AND WRAPPED IN GEOGRID TO CONSIDER THE LESSER STIFF NATURE OF THE IN SITU SOILS AT THOSE DEPTHS. REFER TO GEOTECHNICAL REPORT PREPARED BY PATERSON GROUP DATED MARCH 21, 2025. REPORT NO. PG7468-1 FOR DETAILS.
- FOR CONSTRUCTION DETAILS NOT SHOWN ON PLANS, REFERENCE SHALL BE MADE TO THE ONTARIO PROVINCIAL STANDARDS DRAWINGS AND CITY OF OTTAWA STANDARDS.
- SERVICES TO BUILDINGS TO BE TERMINATED 1.0m FROM THE FACE OF BUILDING UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS TO PROVIDE CCTV CAMERA INSPECTIONS OF ALL SANITARY AND STORM SEWERS, INCLUDING PICTORIAL REPORT, ONE (1) CD COPY AND TWO (2) VIDEO TAPES IN A FORMAT SATISFACTORY TO THE ENGINEER. ALL SEWERS ARE TO BE RUISHED PRIOR TO CAMERA INSPECTION. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE CONSULTANT.
- LASER ALIGNMENT CONTROL TO BE UTILIZED ON ALL SEWER INSTALLATIONS.
- FROST PROTECTION PER CITY OF OTTAWA STANDARD DRAWING S35 WHERE THERE IS LESS THAN 2.0m OF COVER ABOVE THE SEWER SERVICES.
- CONTRACTOR SHALL PERFORM LEAKAGE TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR SANITARY SEWERS IN ACCORDANCE WITH OPSD 410 AND OPSD 407. A COPY OF THE INSPECTION REPORT SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW.
- STORM SERVICE CONNECTION AS PER CITY STD DWG S11.1; SANITARY SERVICE CONNECTION AS PER CITY STD DWG S11.1. SERVICES TO CONNECT TO THE OBVERT OF THE MAIN UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VERIFY EXISTING SEWERS AND INVERTS, AND REPORT ANY DISCREPANCIES TO SITE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- STORM AND SANITARY MANHOLES SHALL BE 1200mm DIAMETER IN ACCORDANCE WITH OPSD-701.01 (UNLESS OTHERWISE NOTED) w/ FRAME AND COVER AS PER CITY OF OTTAWA S24, S24.1, AND S25 WHERE APPLICABLE. CATCH BASIN MANHOLE FRAME AND COVERS PER S19, S28, AND S28.1 WHERE APPLICABLE. ALL STORM MANHOLES WITH SEWERS 300mm THICKNESS AND OVER IN SIZE SHALL BE BENCHMARKED. ALL OTHER STORM MANHOLES SHALL BE COMPLETED WITH 300mm SLEEPS AS PER CITY STANDARDS. SANITARY MANHOLES SHALL NOT HAVE SLEEPS.
- CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY STANDARDS w/ FRAME AND GRATE. REAR YARD CBS SHALL BE AS PER S18.1. STREET CBS' AS PER S2 AND S19, AND CURB INLET CBS AS PER S3, S22 AND S23. PROVIDE 150mm ADJUSTED SPACERS. ALL CATCH BASINS SHALL HAVE SLEEPS (600mm DEEP). STREET CATCH BASIN LEADS SHALL BE 200mm DIA.(MIN) PVC SDR 35 AT 1.0% GRADE WHERE NOT OTHERWISE SHOWN ON PLAN. CATCH BASINS WILL BE INSTALLED WITH INLET CONTROL DEVICES (ICD) AS PER ICD SCHEDULE ON STORM DRAINAGE PLAN.
- STREET CATCH BASINS TO BE INSTALLED w/ SUBDRAINS 3m LONG IN FOUR ORTHOGONAL DIRECTIONS OR LONGITUDINALLY WHEN PLACED ALONG A CURB, AND AT AN ELEVATION OF 300mm BELOW SUBGRADE LEVEL.
- SERVICE SIZES, LOCATIONS, AND ELEVATIONS TO BE CONFIRMED BY MECHANICAL ENGINEER.
- CLAY SEALS TO BE INSTALLED AS PER CITY STANDARD S8. THE SEALS SHOULD BE AT LEAST 1.5m LONG (IN THE TRENCH DIRECTION) AND SHOULD EXTEND FROM TRENCH WALL TO TRENCH WALL. THE SEALS SHOULD EXTEND FROM THE FROST LINE AND FULLY PENETRATE THE BEDDING, SUBBEDDING AND COVER MATERIAL. THE CLAY SEALS SHOULD CONSIST OF RELATIVELY DRY AND COMPATIBLE BROWN SILTY CLAY PLACED IN MAXIMUM 225mm THICK LAYERS AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS SPECIFIED. THE CLAY SEALS SHOULD BE PLACED AT THE SITE BOUNDARIES AND AT STRATEGIC LOCATIONS AT NOT MORE THAN 60m INTERVALS. THE SERVICE TRENCHES, FOR DETAILS REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP DATED MARCH 21, 2025. REPORT NO. PG7468-1.

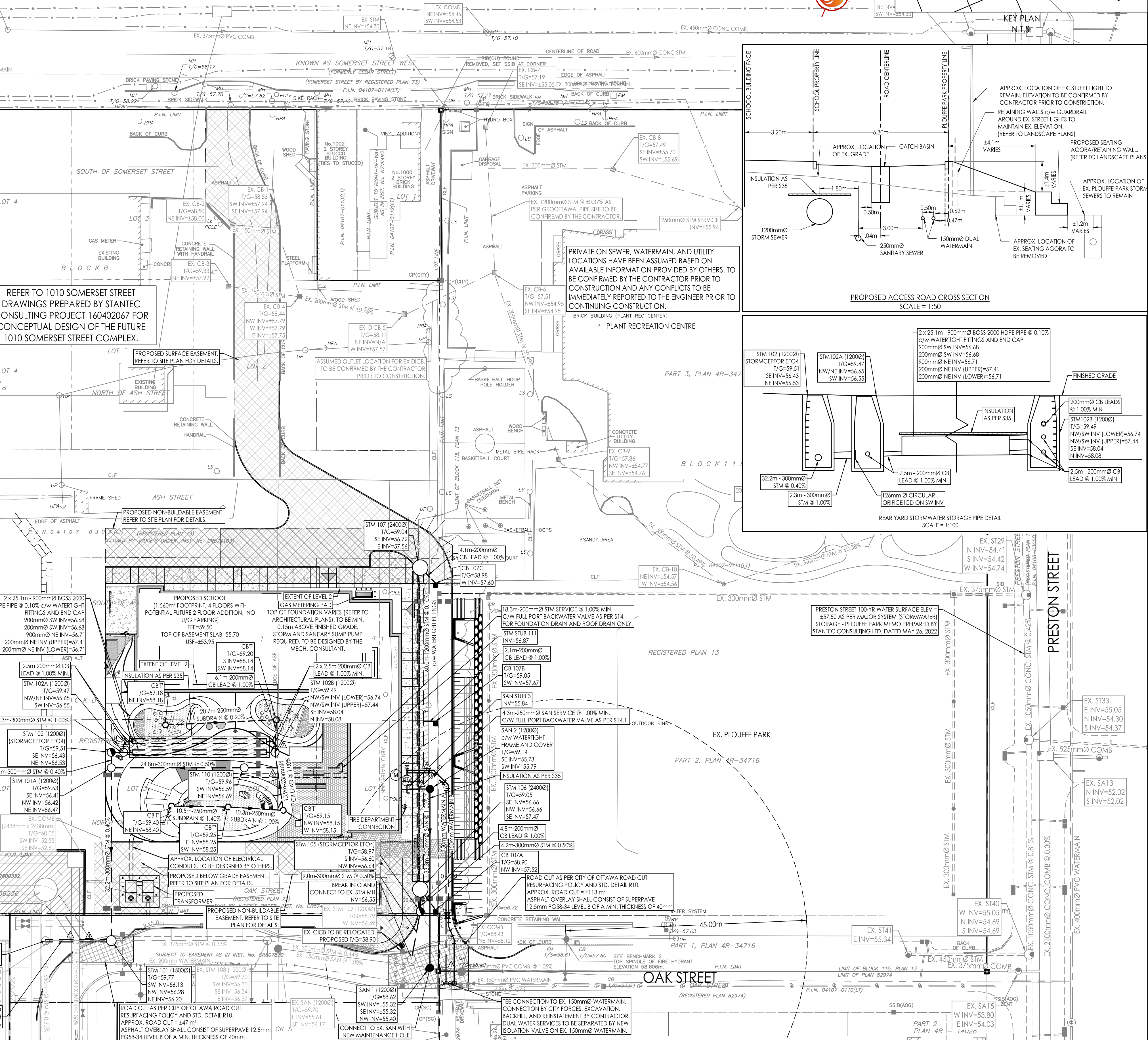
CROSSING	STM INV	STM OBV	STM SUBRAIN INV	SAN INV	SAN OBV	WTR TOP	WTR BTM	NOTES
1	56.48 (56.48)	57.88 (58.03)		55.28	55.53	56.06	55.91	
2				56.80	56.05			
3	56.68 (56.42)	57.88 (58.03)				55.93	55.78	DEFLECT WATER UNDER STORM (AS PER W25)
4	56.12 (56.04)	56.57 (56.65)				55.77	55.77	
5	56.11 (56.03)	56.56 (56.64)		552.66 (52.49)	554.16 (54.33)			
6	57.44	57.44	58.07	58.32				
7	57.44	57.44	58.08	58.33				

STRUCTURE ID	AREA ID	TYPE	ICD INVERT	ICD/R HEAD [m]	100% RELEASE RATE [L/s]
STM 106	U107A, U107B, U107C	92mm Ø CIRCULAR OFFICE	56.66	1.14	19.2
STM 102A	U102A	126mm Ø CIRCULAR OFFICE	56.55	0.82	30.5

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	58.51	55.61	CONNECTION TO EX. 150mm Ø WATERMAIN
0+012.7	58.91	56.51	150mm Ø VALVE AND BOX
0+020	59.06	56.66	TOP OF WATERMAIN
0+036.7	59.17	56.77	45° HORIZONTAL BEND
0+043.3	59.11	56.71	45° HORIZONTAL BEND
0+049.9	59.14	56.74	45° VERTICAL BEND
0+041.9	59.16	56.76	DEFLECT WATER UNDER STORM (AS PER W25)
0+042.7	59.19	56.79	DEFLECT WATER UNDER STORM (AS PER W25)
0+043.7	59.36	56.96	45° VERTICAL BEND
0+045.1	59.35	56.95	150mm Ø WATERMAIN SUB

DRAINAGE AREA ID	DRAIN TYPE	# DRAINS	100 YEAR HEAD [m]	100 YEAR RELEASE RATE [L/s]
R111A	WATER ACCUMULATED OPEN	6	0.19	7.5

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	58.44	55.64	CONNECTION TO EX. 150mm Ø WATERMAIN
0+008.2	58.66	56.26	22.5° HORIZONTAL BEND
0+016.6	58.82	56.42	22.5° HORIZONTAL BEND
0+012.7	58.92	56.52	150mm Ø VALVE AND BOX
0+020	59.07	56.67	TOP OF WATERMAIN
0+036.7	59.18	56.79	45° HORIZONTAL BEND
0+043.3	59.11	56.71	45° HORIZONTAL BEND
0+049.9	59.14	56.74	45° VERTICAL BEND
0+041.9	59.16	56.76	DEFLECT WATER UNDER STORM (AS PER W25)
0+042.7	59.19	56.79	DEFLECT WATER UNDER STORM (AS PER W25)
0+043.7	59.36	56.96	45° VERTICAL BEND
0+045.0	59.35	56.95	150mm Ø WATERMAIN SUB





CITY CENTRE AVENUE

SITE GRADING

1. ALL GRANULAR BASE & SUB-BASE COURSE MATERIALS SHALL BE COMPACTED AS PER GEOTECHNICAL CONSULTANT RECOMMENDATIONS.
2. ALL DISTURBED GRASSED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, WITH SOD ON MIN. 100mm TOPSOIL. THE RELOCATION OF TREES AND SHRUBS SHALL BE SUBJECT TO APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR ENGINEER.
3. INSPECTIONS: ALL WORK ON THE MUNICIPAL RIGHT OF WAY AND EASEMENTS TO BE INSPECTED BY THE MUNICIPALITY PRIOR TO BACKFILLING. ALL WORK RELATING TO WATERMAINS AND SEWERS TO BE INSPECTED BY THE MUNICIPALITY WHEN REQUIRED.
4. REFER TO ARCHITECTURAL SITE PLAN FOR DIMENSIONS AND SITE DETAILS.
5. CONTRACTOR TO OBTAIN A ROAD OCCUPANCY PERMIT 48 HOURS PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL ROAD ALLOWANCE IF REQUIRED BY THE MUNICIPALITY.
6. EMBANKMENTS TO BE SLOPED AT MAX. 3:1, UNLESS OTHERWISE SPECIFIED.
7. ALL TREES ON THE RIGHT-OF-WAY ARE TO BE MAINTAINED BEFORE AND AFTER CONSTRUCTIONS AND ALL TREES WITHIN THE PROPERTY SHALL BE PROTECTED AS PER THE MUNICIPAL TREES AND NATURAL AREAS PROTECTION BY-LAW AND THE URBAN TREES CONSERVATION BY-LAW AS AMENDED FROM TIME TO TIME.
8. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH ARCHITECT AND THE CITY OF OTTAWA PRIOR TO TREE CUTTING.
9. SUB-EXCAVATE SOFT AREAS & FILL WITH GRANULAR 'B' COMPACTED IN 0.15m LAYERS.

10. NO ALTERATION TO EXISTING GRADES OR DRAINAGE PATTERN ON PROPERTY LINE MAY BE MADE WHERE NO PERMISSION TO ENTER ADJACENT PROPERTY EXISTS.
11. NO EXCESS DRAINAGE DURING AND AFTER CONSTRUCTION, IS TO BE DIRECTED TOWARDS NEIGHBOURING PROPERTIES.
12. UNDERSIDE-OF-FOOTING TO HAVE MINIMUM COVER OF 1.5m, WHERE SUFFICIENT COVER IS NOT PROVIDED, FOOTINGS ARE TO BE INSULATED TO PROVIDED EQUIVALENT INSULATION.
13. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R10, CPSS 509.010 AND CPSS 310.
14. ALL RETAINING WALLS GREATER THAN 1.0m IN HEIGHT ARE TO BE DESIGNED, APPROVED, AND STAMPED BY STRUCTURAL ENGINEER.
15. FENCES OR RAILINGS ARE REQUIRED FOR RETAINING WALLS GREATER THAN 0.60m IN HEIGHT.
16. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE CONSULTANT.
17. CONCRETE CURBS SHALL BE CONSTRUCTED AS PER CITY STANDARD SC1.1. CURBS TO BE DEPRESSED AT DRIVEWAYS.
18. CONCRETE SIDEWALKS WITHIN THE PROPOSED ACCESS ROAD TO BE CONSTRUCTED AS PER CITY STANDARD SC1.4. REFER TO LANDSCAPE PLANS FOR CONCRETE SIDEWALK AND ASPHALT PATHWAY DETAILS WITHIN THE SCHOOL YARD.
19. ALL ROOF DOWNSPOUTS TO DISCHARGE TO THE GROUND ONTO SPLASH PADS AND SHALL NOT BE DIRECTED TO THE STORM SEWER OR THE BUILDING FOUNDATION DRAIN.
20. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
21. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO TREE CUTTING.
22. ENGINEERED FILL TO BE REQUIRED UNDER ROADS WHERE SEWER BEDDING IS ABOVE THE ORIGINAL GROUND SURFACE.
23. PAVEMENT CONSTRUCTION AS PER GEOTECHNICAL REPORT PREPARED BY PATERSON GROUP DATED MARCH 21, 2025, REPORT NO. PG7468-1.
LIGHT VEHICLE PARKING AND PLAYGROUND AREAS
60mm HL 3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
150 CPSS GRANULAR 'A' BASE
300 CPSS GRANULAR 'B' TYPE II
LOCAL ROADWAYS, BUS LANES, ACCESS LANES, AND HEAVY VEHICLE PARKING AREAS
40mm HL3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm HL8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE
150 CPSS GRANULAR 'A' BASE
400 CPSS GRANULAR 'B' TYPE II



Stantec

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Legend

- ORIGINAL GROUND ELEVATION
- PROPOSED ELEVATION
- PROPOSED LOT CORNER ELEVATION
- EXISTING ELEVATION AT LOT CORNER
- FLOW DIRECTION AND GRADE
- FINISHED FIRST FLOOR ELEVATION
- TOP OF FOUNDATION WALL ELEVATION
- UNDERSIDE OF FOOTING ELEVATION
- NUMBER OF RISERS
- TERRACING 3:1 SLOPE MAXIMUM (UNLESS OTHERWISE SHOWN)
- PROPOSED SWALE
- DIRECTION OF OVERLAND FLOW
- PROPOSED VALVE CHAMBER
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED STORMCATCHER
- PROPOSED CATCHBASIN
- CATCHBASIN TO BE INSTALLED WITH CIRCULAR ORifice (SEE DWG SD-1)
- PROPOSED SUBDRAIN CATCHBASIN
- PROPOSED DEPRESSED CURB LOCATION
- MAXIMUM EMERGENCY PONDING LIMITS

Notes

Revision	By	Appd.	YY.MM.DD
2	WAJ	PM	25.07.04
1	WAJ	PM	25.04.29

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Permit-Seal

Client/Project

CITY OF OTTAWA

CEPEO ELEMENTARY SCHOOL
LOUISE-ARBOUR - 45 OAK STREET
OTTAWA, ON

Title

GRADING PLAN

Project No.

160401837

Drawing No.

GP-1

Scale

1:400

Sheet

3 of 7

Revision

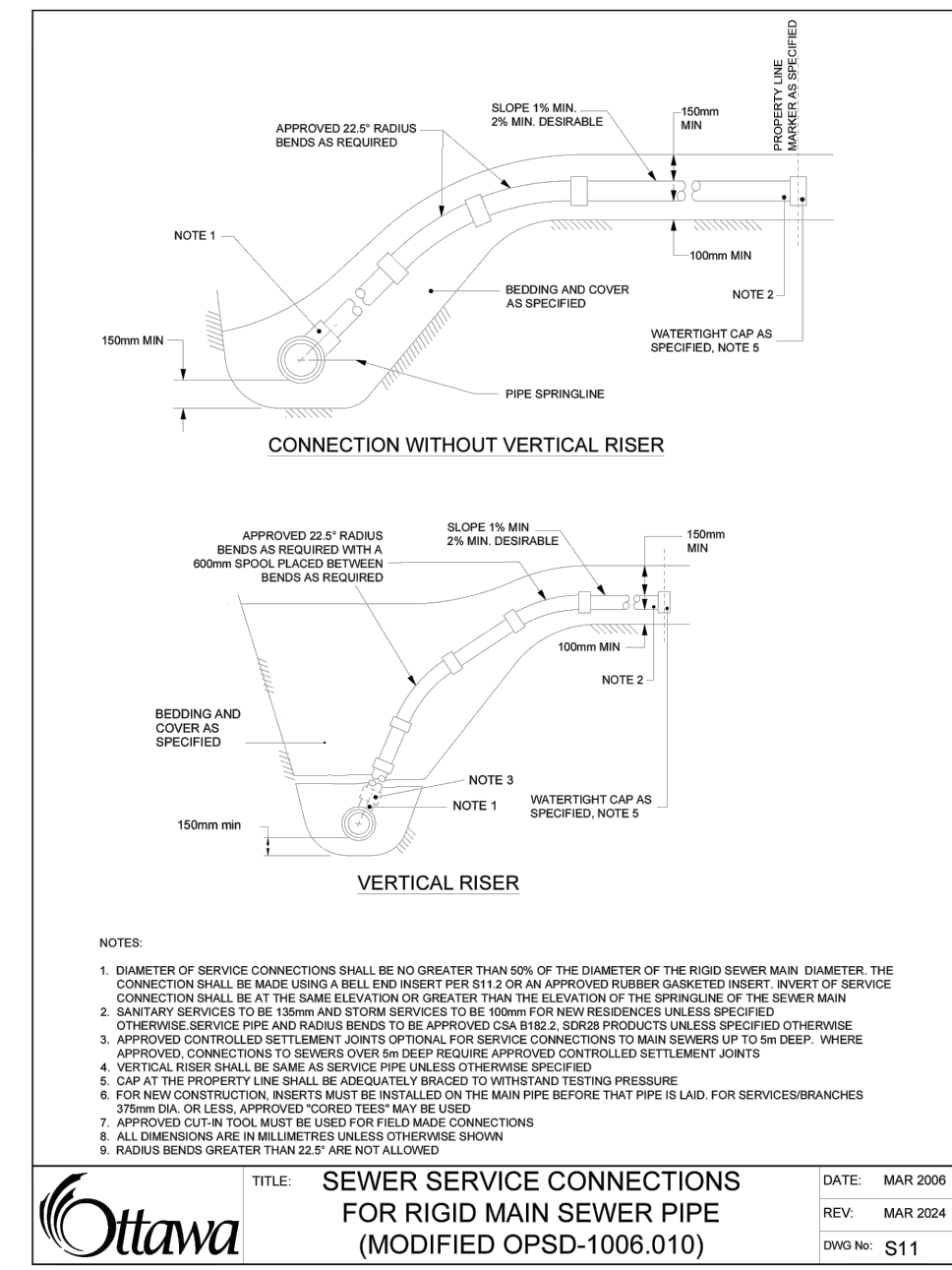
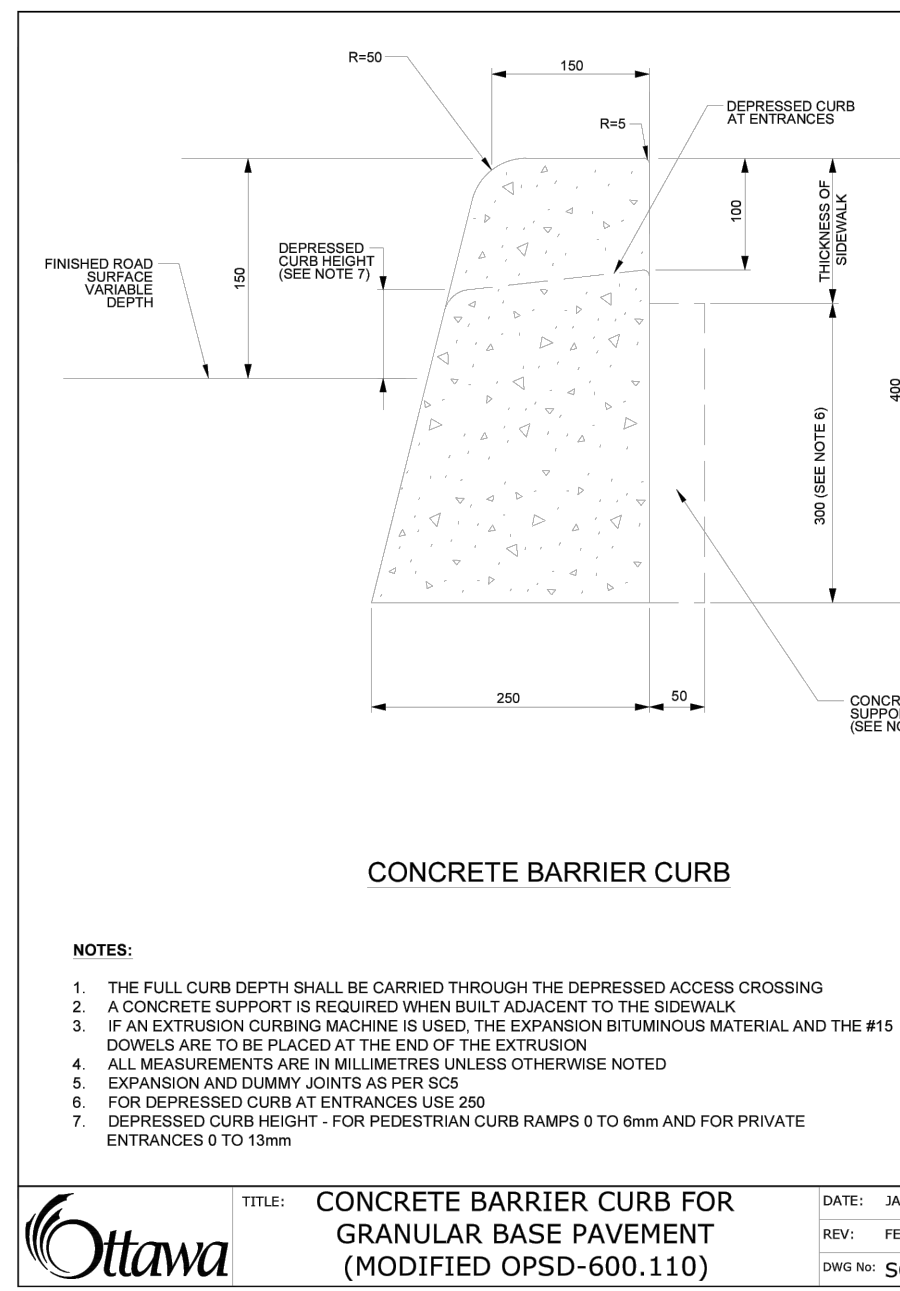
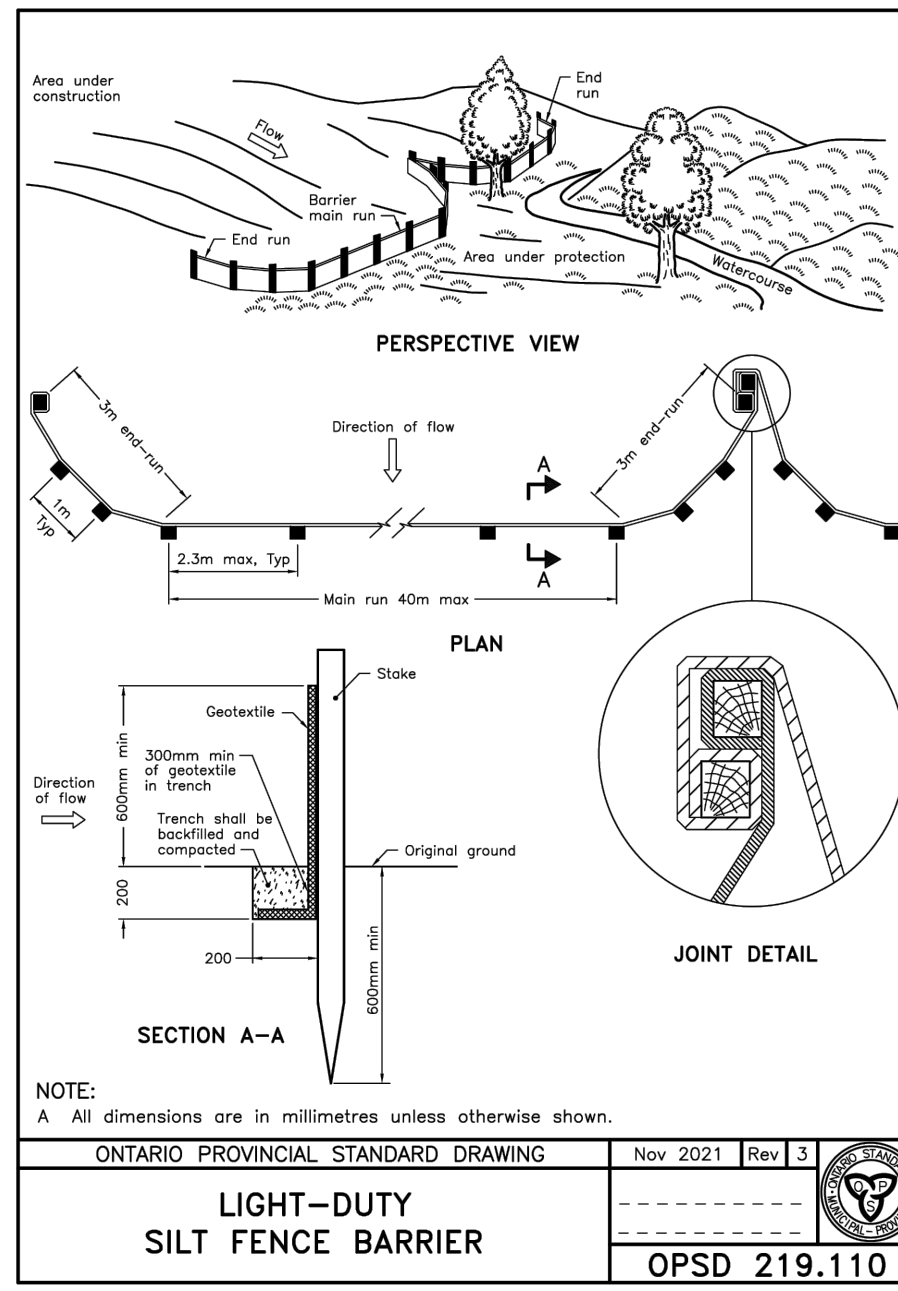
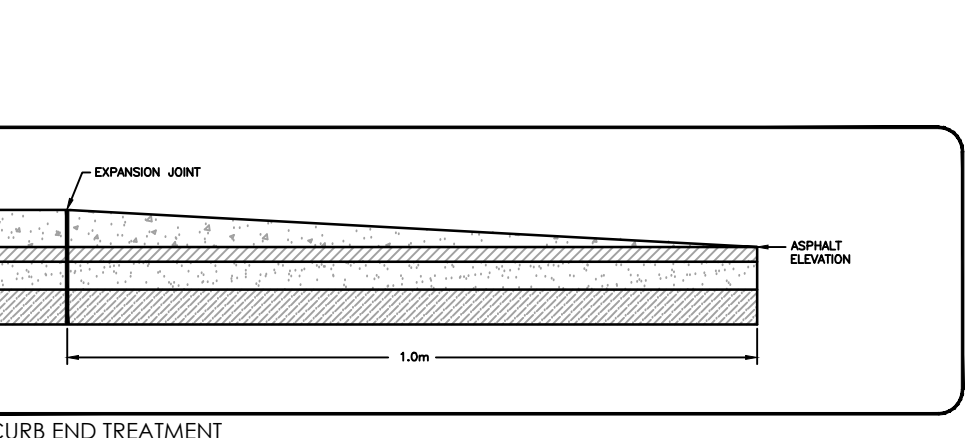
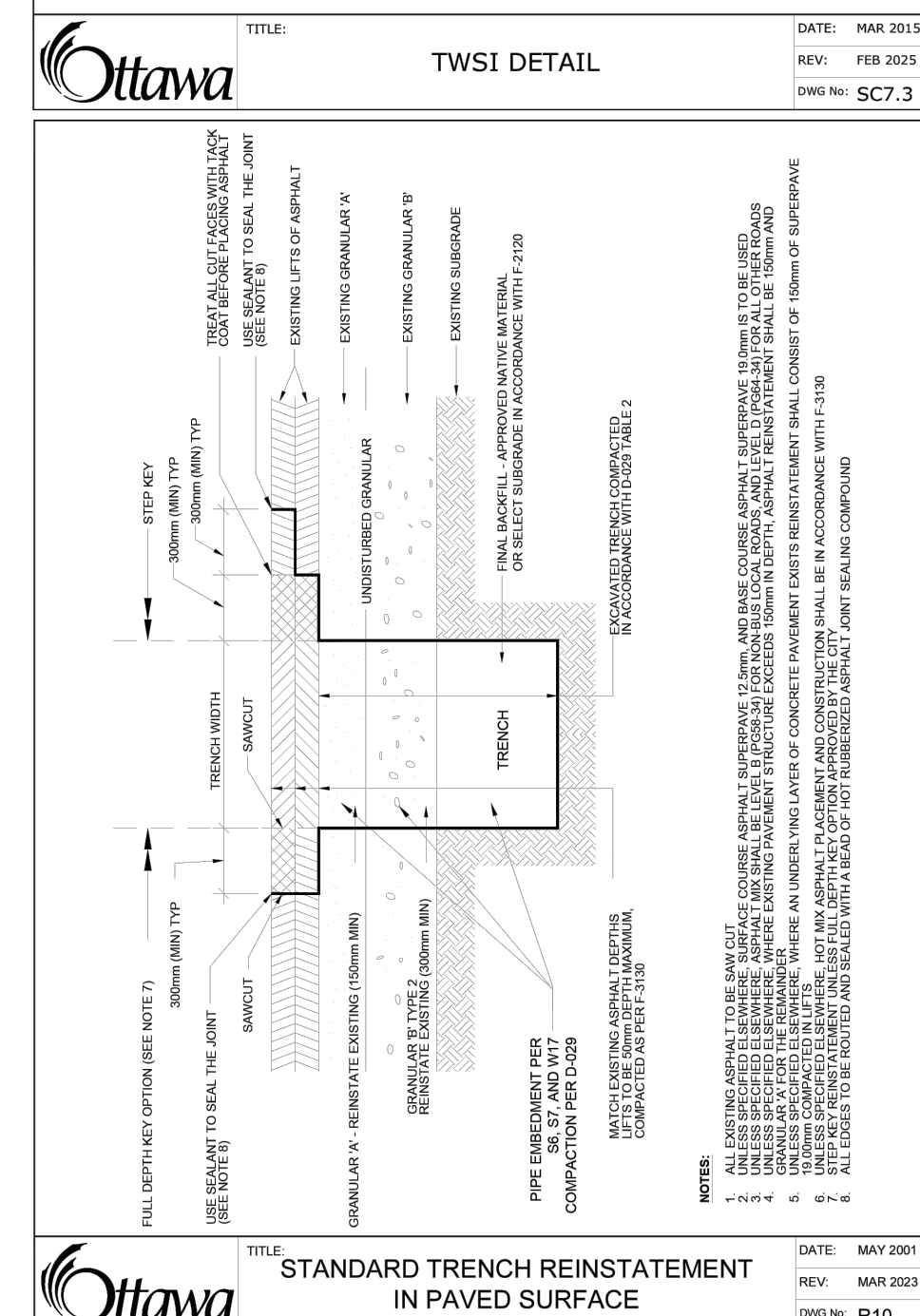
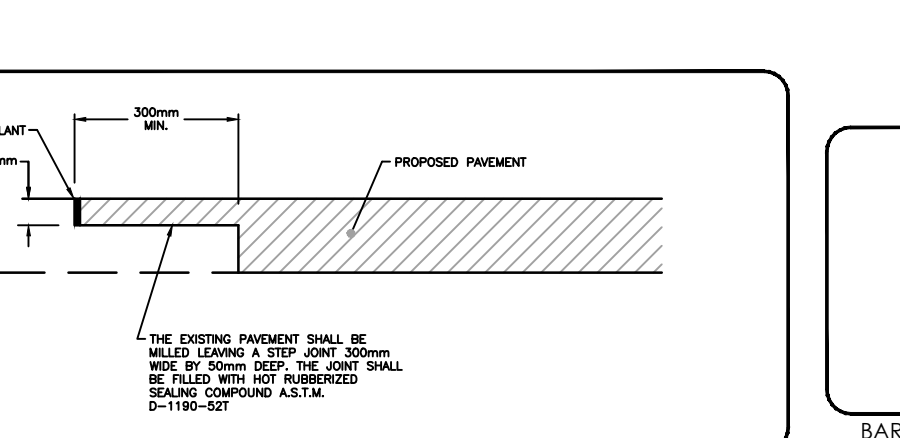
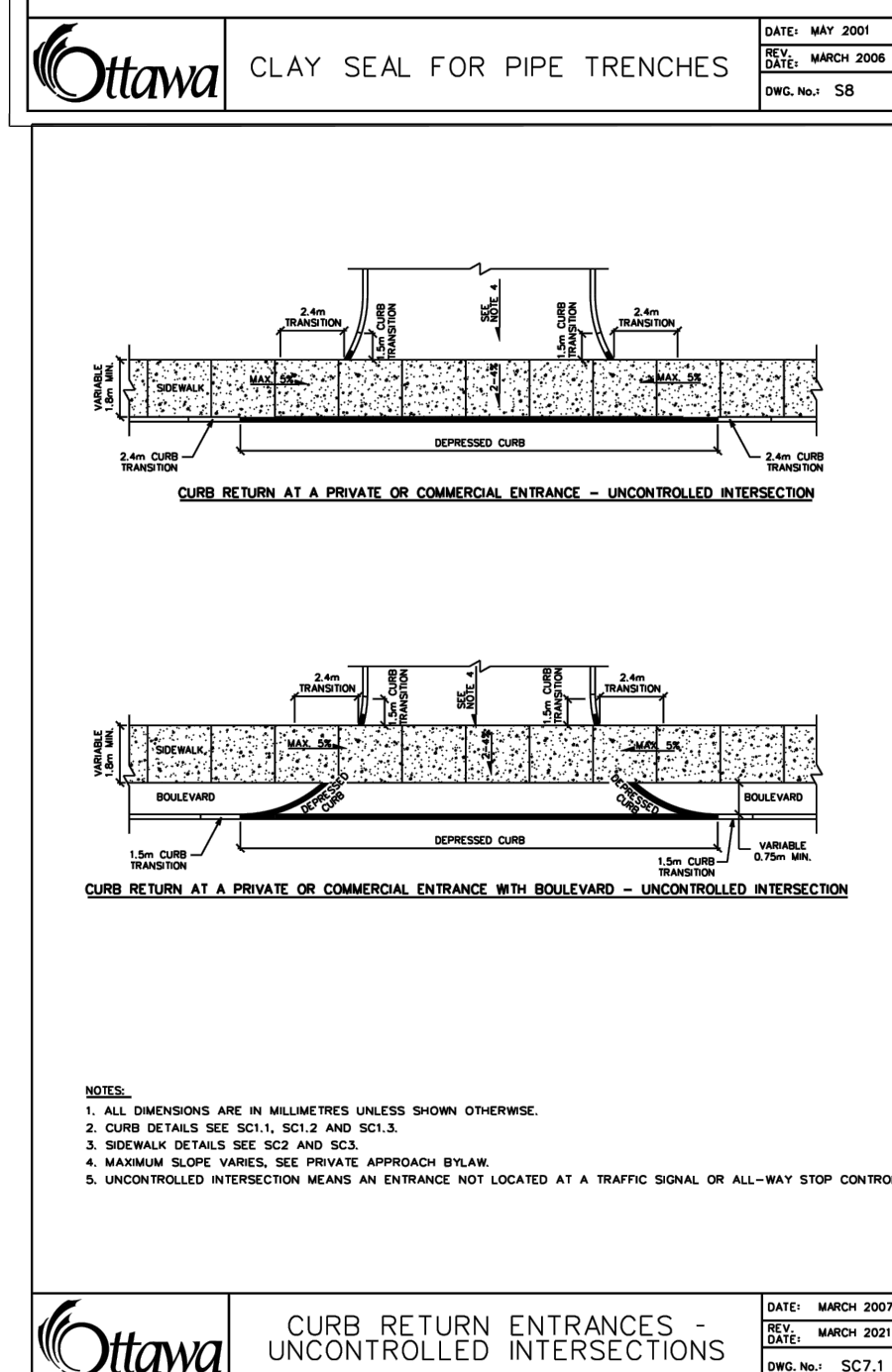
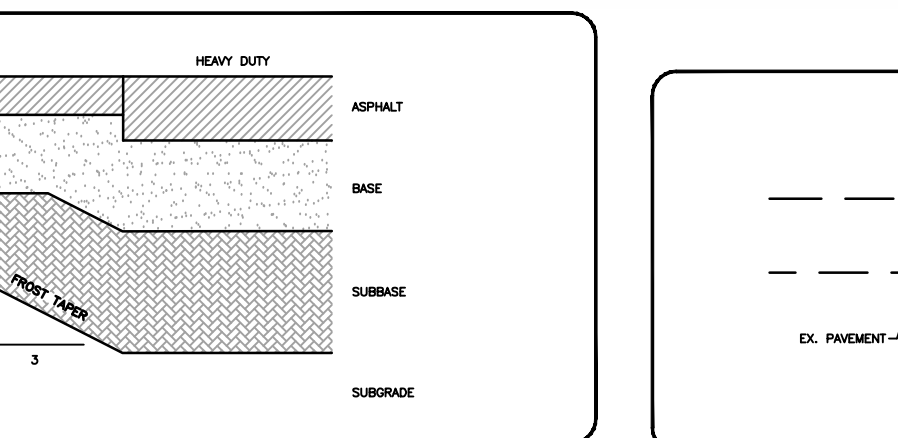
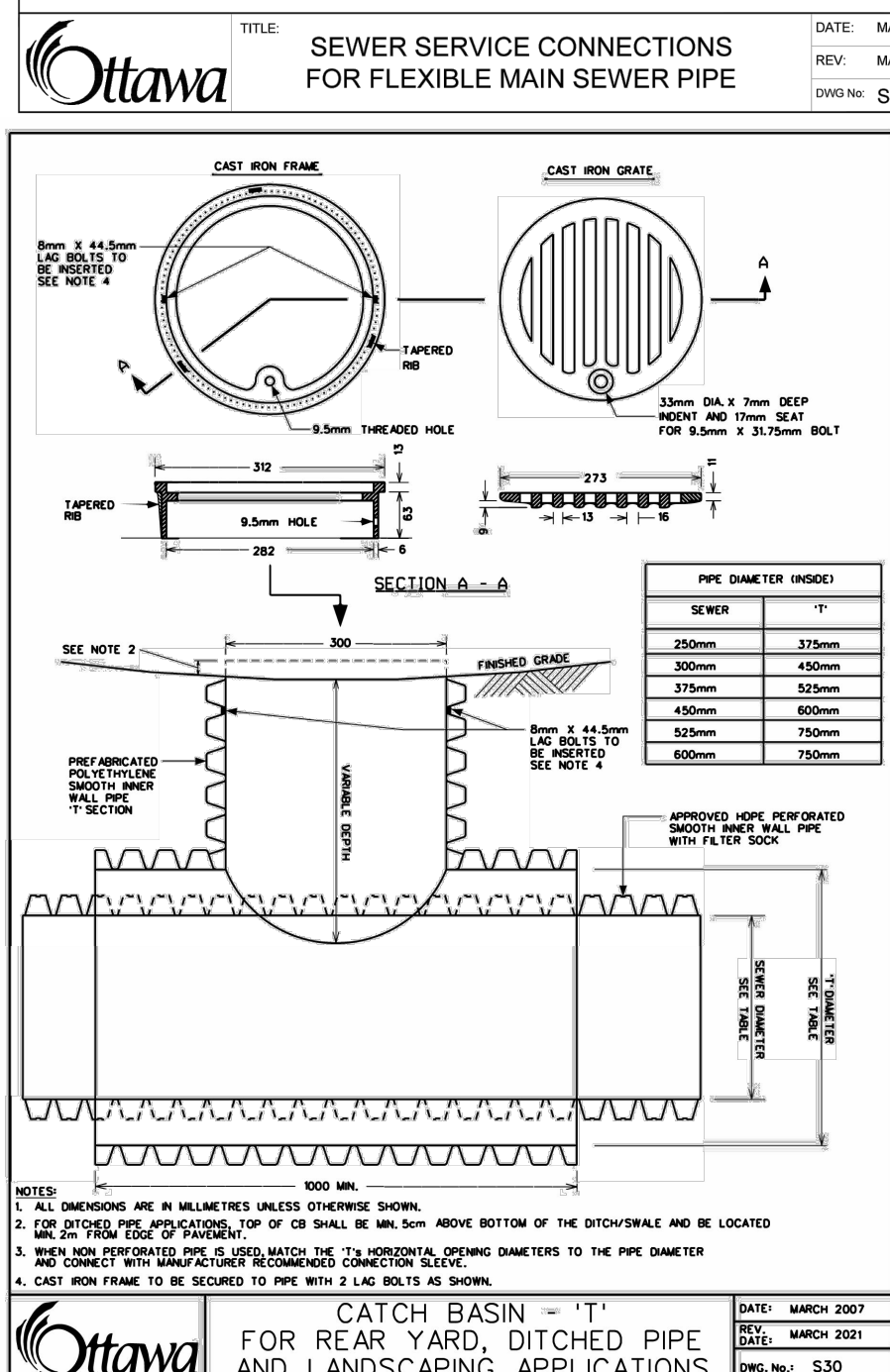
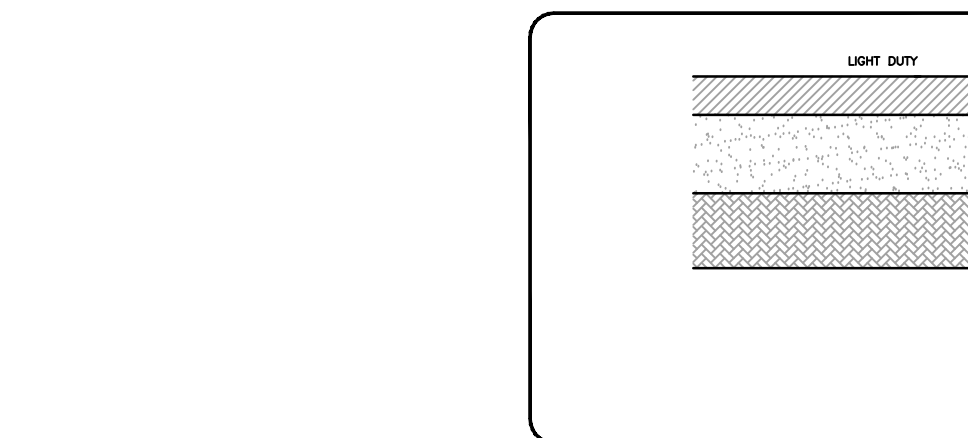
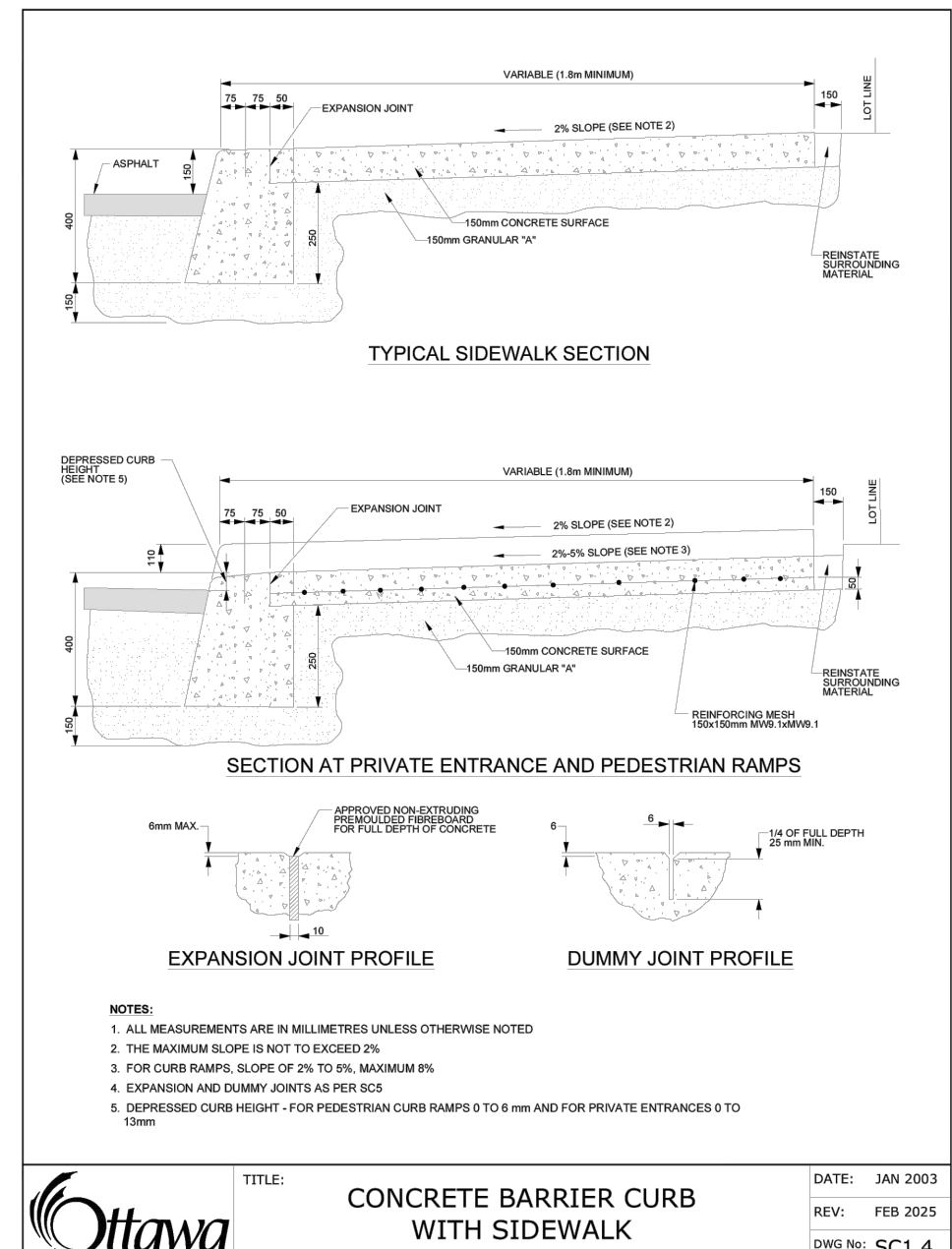
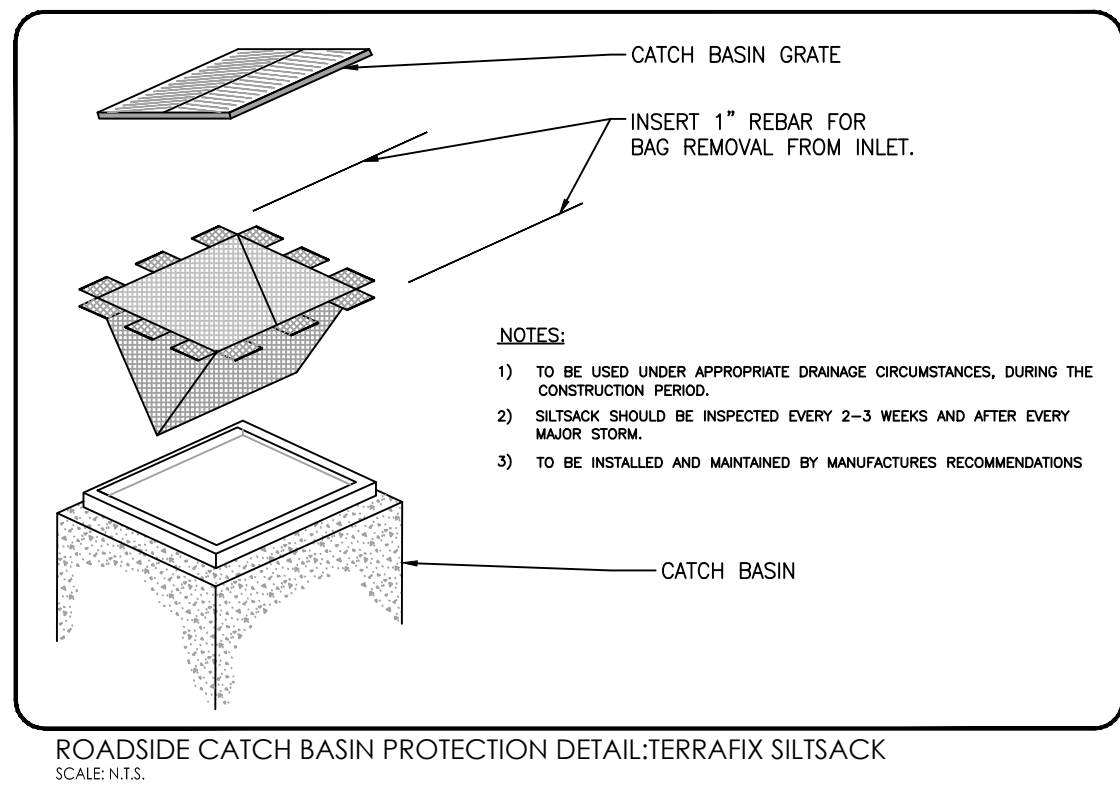
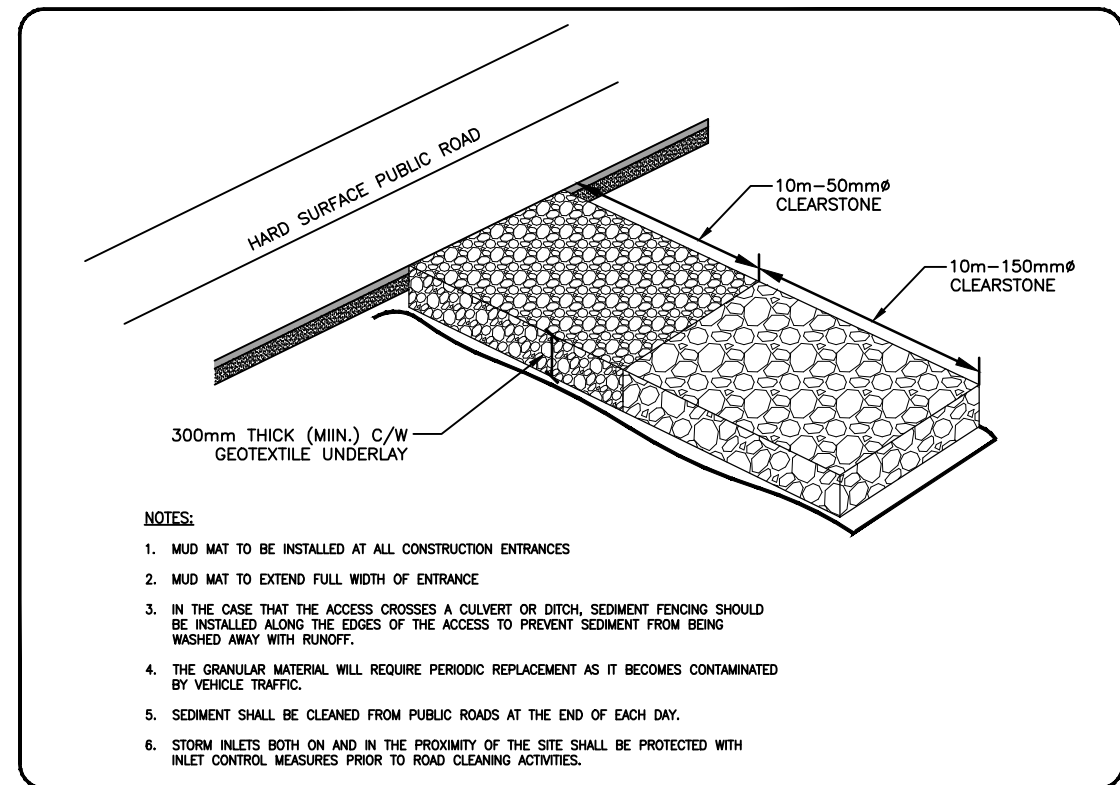
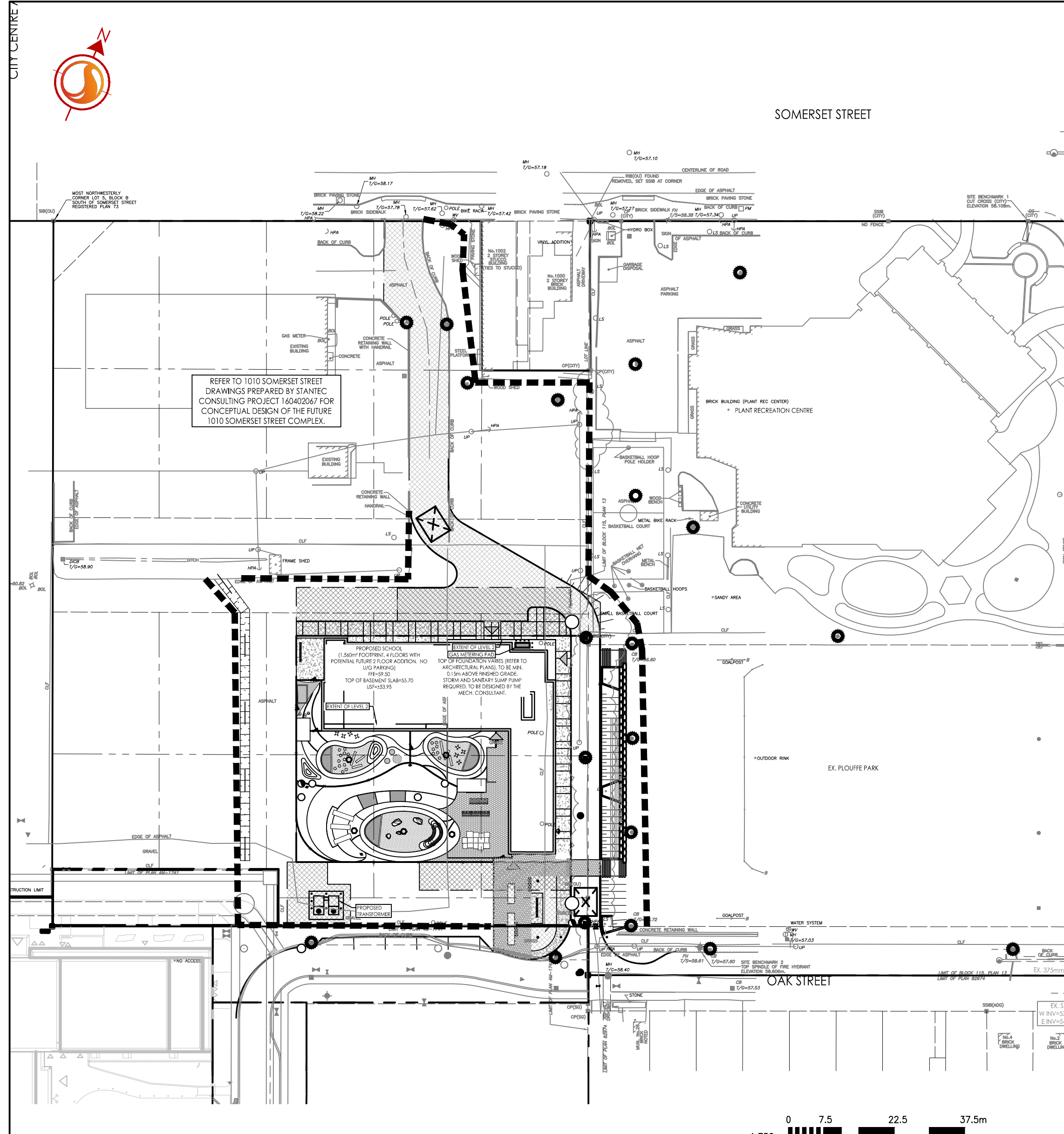
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PLAN # 19280

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- Legend**
- PROPOSED SILT FENCE BOUNDARY AS PER OPSD 219.110
 - PROPOSED CATCH BASIN PROTECTION AS PER DETAIL
 - PROPOSED MUD MAT LOCATION

Best Management Practices

CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROLS (BEST MANAGEMENT PRACTICES) DURING CONSTRUCTION OF THIS PROJECT.

EROSION MUST BE MINIMIZED AND SEDIMENTS MUST BE REMOVED FROM CONSTRUCTION SITE RUN-OFF IN ORDER TO PROTECT DOWNSTREAM AREAS. DURING ALL CONSTRUCTION, EROSION AND SEDIMENTATION SHOULD BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

- LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
- REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE.
- MINIMIZE AREA TO BE CLEARED AND GRUBBED.
- PROTECT EXPOSED SLOPES WITH PLASTIC OR SYNTHETIC MULCHES.
- INSTALL FILTER CLOTH BETWEEN FRAME AND COVER ON ALL PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES AND ON ALL EXISTING CATCH BASINS THAT WILL RECEIVE RUN-OFF FROM THE SITE.
- A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL AND ANY STOCKPILES OF MATERIAL TO BE USED OR REMOVED FROM SITE. (LOCATION TO BE DETERMINED)
- A VISUAL INSPECTION SHALL BE DONE DAILY ON SEDIMENT CONTROL MEASURES AND CLEANED OF ANY ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OFF SITE AS PER THE REQUIREMENTS OF THE CONTRACT.
- SEDIMENT CONTROL BARRIERS MAY ONLY BE REMOVED TEMPORARILY WITH APPROVAL OF CONTRACT ADMINISTRATOR TO ACCOMMODATE CONSTRUCTION OPERATIONS. ALL AFFECTED BARRIERS MUST BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A SIGNIFICANT RAINFALL EVENT ANTICIPATED (>10mm) UNLESS A NEW DEVICE HAS BEEN INSTALLED TO PROTECT THE EXISTING STORM AND SANITARY SEWER SYSTEMS.
- NO REFUELING OR CLEANING OF EQUIPMENT IS PERMITTED NEAR ANY EXISTING WATERWAY.
- CONTRACTOR SHALL REMOVE SEDIMENT CONTROL MEASURES WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE MEASURE(S) IS NO LONGER REQUIRED. NO CONTROL MEASURES SHALL BE PERMANENTLY REMOVED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL PERIODICALLY, OR WHEN REQUESTED BY THE CONTRACT ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENTS AS REQUIRED.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
- CONTRACTOR SHALL INSTALL MUD MATS AT ALL ENTRANCES TO THE SITE.
- CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD AND DEBRIS.

Revision	By	Appd.	YY.MM.DD
2	REVISÉ AS PER CITY COMMENTS	WAJ	PM 25.07.04
1	ISSUED FOR REVIEW	WAJ	PM 25.04.29

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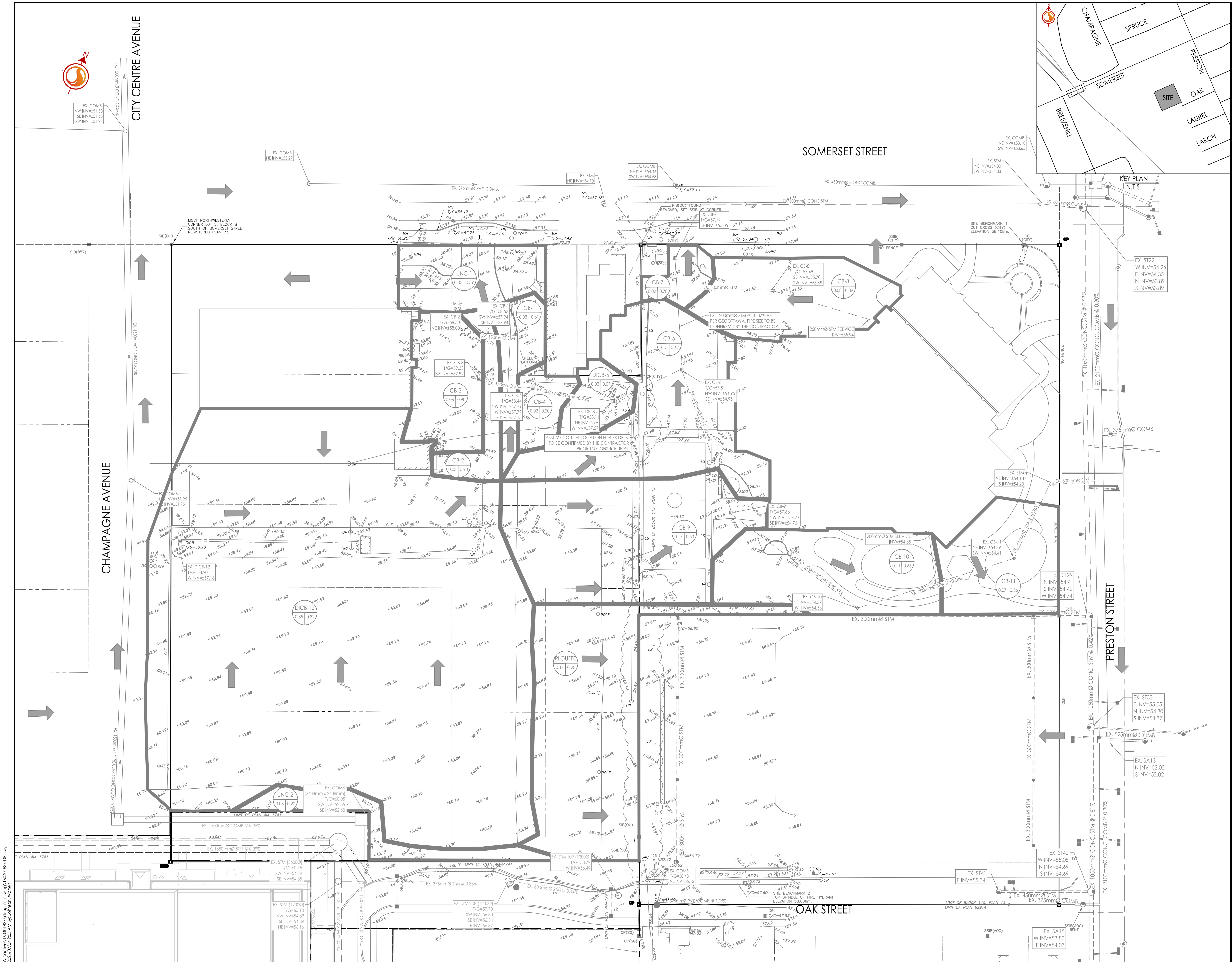
Permit-Seal

Client/Project
CITY OF OTTAWA

CEPEO ELEMENTARY SCHOOL
LOUISE-ARBOUR - 45 OAK STREET
OTTAWA, ON

EROSION CONTROL PLAN AND DETAIL SHEET

Project No.	Scale	
160401837	AS NOTED	
Drawing No.	Sheet	Revision



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Legend

EXISTING AREA ID

EXISTING RUNOFF COEFFICIENT

EXISTING STORM DRAINAGE AREA ha.

EXISTING STORM DRAINAGE BOUNDARY

EXISTING DIRECTION OF OVERLAND FLOW

EXISTING STORM SEWER

EXISTING CATCHBASIN

Notes

Revision			
2	REVISED AS PER CITY COMMENTS	WAJ	PM 25.07.04
1	ISSUED FOR REVIEW	WAJ	PM 25.04.29
		By	Appd. YY.MM.DD
Permit-Seal			
File Name: 160401837-D8.dwg		WAJ	PM 25.03.20
		Dwn.	Chkd. Dsgn. YY.MM.DD

Client/Project

CITY OF OTTAWA

CEPEO ELEMENTARY SCHOOL

LOUISE-ARBOUR - 45 OAK STREET

OTTAWA, ON

Title

EXISTING CONDITIONS

STORM DRAINAGE PLAN

Project No.

160401837

Scale

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Drawing No.

Sheet

Revision

EXSD-1

5 of 7

2

PLAN # 19280

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Legend

- 1-1 AREA ID
- STORM DRAINAGE AREA No. STORM DRAINAGE BOUNDARY
- DIRECTION OF OVERLAND FLOW
- PROPOSED STORM SEWER
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- EXISTING STORM SEWER
- CATCHBASINS TO BE INSTALLED C/W CIRCULAR ORIFICE (SEE ICD TABLE)
- PROPOSED SUBDRAIN CATCHBASIN

Notes

SCHEDULE OF INLET CONTROL DEVICES						
STRUCTURE ID	AREA ID	TYPE	ICD INVERT	100% HEAD (m)	100% RELEASE RATE (L/s)	
STM 106	L107A, L107B, L107C	90mm Ø CIRCULAR ORIFICE	56.66	1.14	19.2	
STM 102A	L102A	126mm Ø CIRCULAR ORIFICE	56.55	0.82	30.5	

SCHEDULE OF ROOF RELEASE RATES				
DRAINAGE AREA ID	DRAIN TYPE	# DRAINS	100 YEAR HEAD (m)	100 YEAR RELEASE RATE (L/s)
R111A	WATTS ACCUTROL (50% OPEN)	6	0.149	7.5

Revision	By	Appd.	YY.MM.DD
2	WAJ	PM	25.07.04
1	WAJ	PM	25.04.29

File Name:	WAJ	PM	WAJ	25.03.20
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Client/Project

CITY OF OTTAWA

CEPEO ELEMENTARY SCHOOL
LOUISE-ARBOUR - 45 OAK STREET
OTTAWA, ON

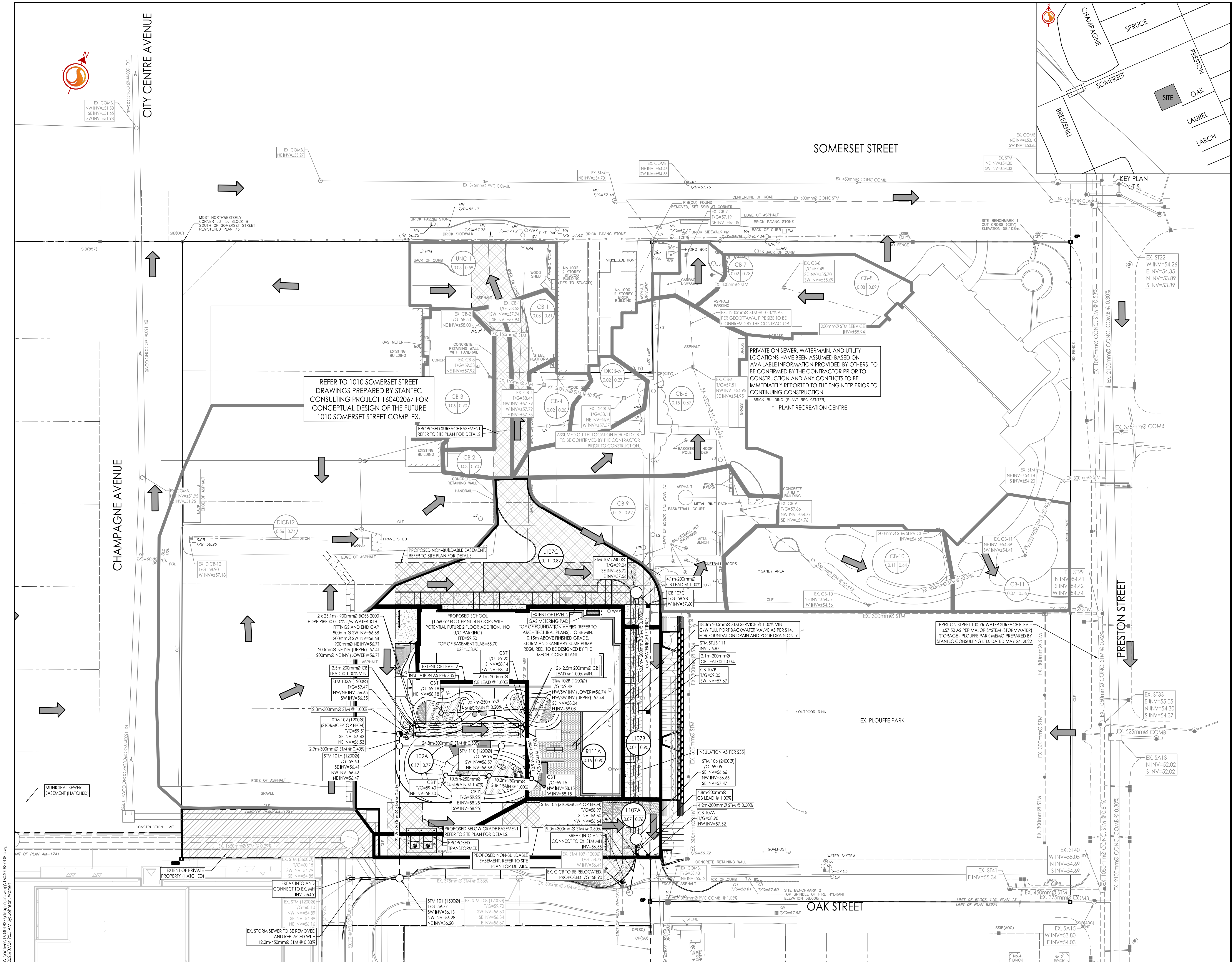
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STORM DRAINAGE PLAN

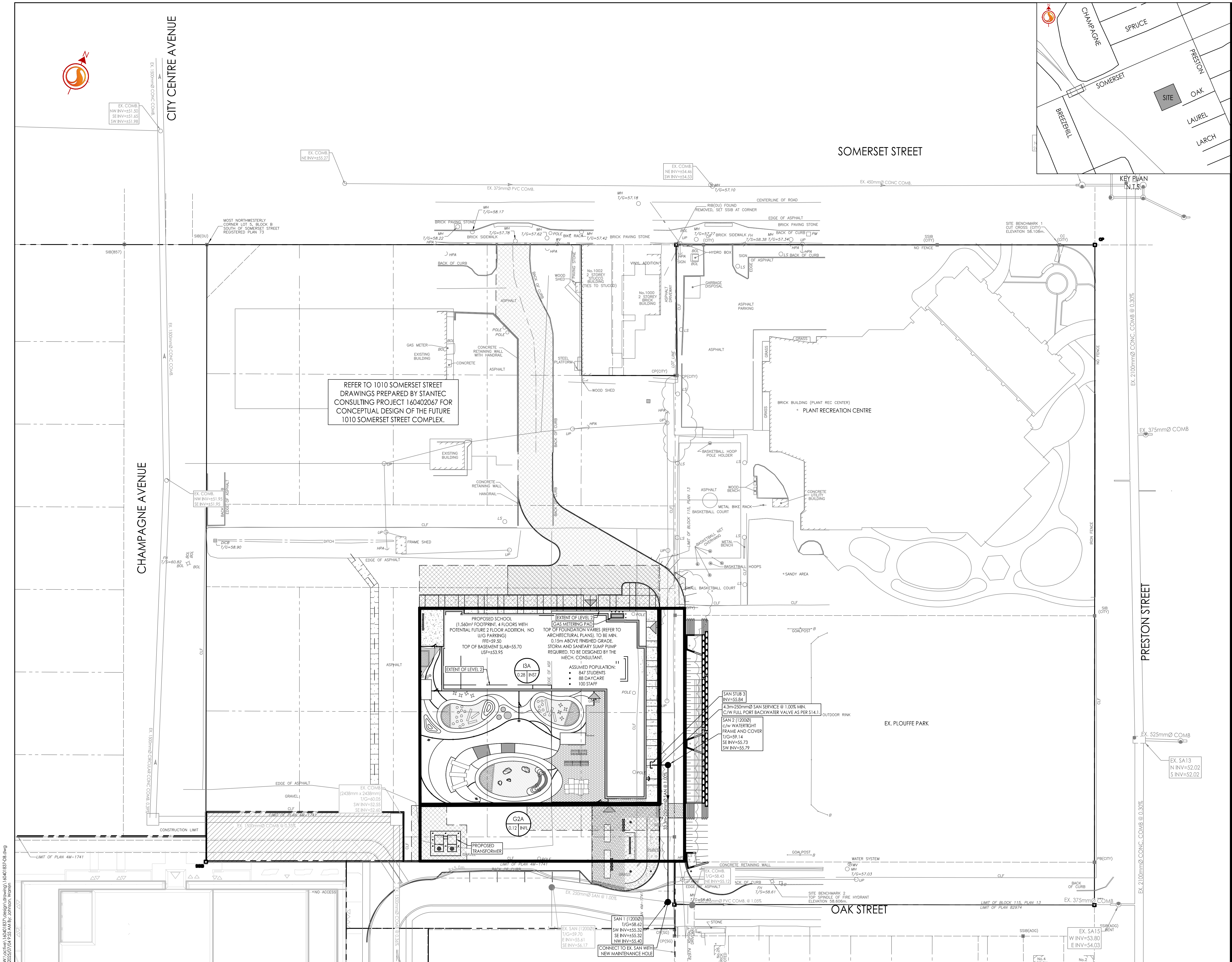
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Drawing No.	Sheet	Revision
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PLAN # 19280



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Legend

SA24A

0.38 34

SANITARY DRAINAGE AREA ID#

POPULATION

SANITARY DRAINAGE AREA ha

SANITARY DRAINAGE AREA

PROPOSED SANITARY SEWER

Notes

Client/Project

CITY OF OTTAWA

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LOUISE-ARBOUR - 45 OAK STREET
OTTAWA, ON

Title

SANITARY DRAINAGE PLAN

Project No.
160401837

Scale
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Drawing No.
SA-1

Sheet
7 of 7

Revision
2

PLAN # 19280

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