<u>GEN</u> 1.	<u>ERAL NOTES</u> ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.		COSSING	STM INV	STM OBV	SEWER AND W
2.	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.		1			±55.28
3.	THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCT ACTIVITIES AND COORDINATION WITH ALL OTHER CONTRACTORS AND PREVENT CONSTRUCTION CONFLICTS.	TION	2 3	56.65 (56.50)	57.48 (57.63) 57.49 (57.64)	55.64
4.	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		4	55.66 (55.58) 55.65 (55.57)	56.11 (56.19) 56.10 (56.18)	±52.66 (52.49)
	REPORTED TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS PRIC TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.	OR	* brackets d	DENOTE ADJUSTED VA	LUE WITH CONCRETE I	PIPE THICKNESS
5. 6.	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.			STRUCTURE	SCI	
7.	ALL DISTURBED AREAS SHALL BE REINSTATED 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 OPSS 310.	NT		STM 106	5 L107A, L107B	, L107C 92mm Ø CIR
8.	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.			CB 102A	-1 L102A	126mm Ø CIR
9.	THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER 1 (ONE) SET OF AS CONSTRUCTED SITE SERVICING, GRADING, AND SITE ELECTRICAL DWGS.					
10.	CONTRACTOR TO LOCATE EXISTING SERVICE LATERALS PRIOR TO CONSTRUCTION. EXISTING STORM AND SANITARY SERVICE LATERALS TO BE ABANDONED PER \$11.4. EXISTING WATER SERVICE TO BE BLANKED AT THE MAIN (TYP.)					
11. 12.	TOPOGRAPHIC SURVEY SUPPLIED BY CALLON DIETZ INCORPORATED DATED FEBRUARY 26, 2025 FILE No. 25-27060. SITE PLAN PREPARED BY HOBIN ARCHITECTURE DATED APRIL 2025, PROJECT No. 2457.	н Н	L — SL —	SL SL	SL SL	SL SL
13.	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	6				G G
14.	MADE HERE REFER TO LANDSCAPE ARCHITECTURE PLAN FOR ALL LANDSCAPING FEATURES (ie. TREES, WALKWAYS, PARK DETAILS, NOISE BARRIERS, FENCES etc.)					
15.	STREET LIGHTING TO CITY OF OTTAWA STANDARDS.	RMAIN				BRICK PAVING S
16.	ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO T START OF CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO ENGINEER.	THE	в	— в — в — н — н —	н <u>т/б</u> =	 нн
17.	THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL BY THE CONTRACT ADMINISTRATOR AND PROJECT ENGINEER HAS BEEN OBTAINED.	t	- TR TF	R TR 1	r tr <i>HP</i> .	<u>е.і.</u> л Р.і.л Энра
18. WA ⁻	HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE TO BE NOTIFIED IF DEEPLY BURRIED ARCHEOLOGICAL REMAINS ARE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES.					BACK OF CUR
1.	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]				
2.	WATERMAIN PIPE MATERIAL SHALL BE PVC CL. 150 DR 18. 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			I S	OUTH OF SC	MERSET STRE
3.	WATER SERVICES ARE TO BE PEX PIPE AS PER CITY OF OTTAWA STANDARD W26 (UNLESS OTHERWISE NOTED). STAND POST TO BE INSTALLED AT PROPERTY LINE.	LOT	4			
4.	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.			 		LOT 3
_ 5.	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 CB'S ON THE W/M STREET SIDE WHERE 2400mm SEPARATION CANNOT BE ACHIEVED (AS PER CITY OF OTTAWA STD. W22 & W23).				GAS METER—	
6.	, CATHODIC PROTECTION TO BE SUPPLIED ON METALIC FITTINGS AS PER CITY OF OTTAWA STD. W40 AND W42.					
7. 8.	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					
0.	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 PREGRADE 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	RE DRA	FER TO \WING	1010 SOM S PREPARE	erset stre d by stan ⁻	et Iec
9.	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	CONS CON	SULTING CEPTU/	9 project Al design	160402067 OF THE FU	7 FOR
- 10.	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.	101	0 SOM	ERSET STRE	ET COMPL	EX.
11.	PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED. ALL WATERMAINS SHALL BE BACTERIALOGICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES, ALL CHLORINATED WATER TO BE	~ INT	Д		[
	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.	00 LOI	Ŧ		NODTU	EXISTING BUILDING
12.	FIRE HYDRANTS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W18 AND W19.			UP		
13. 14.	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.					
15. -	WATERMAIN CROSSINGS ABOVE AND BELOW SEWERS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W25 AND W25.2.					
14. Stoi	SERVICE SIZES AND ELEVATIONS TO BE CONFIRMED BY MECHANICAL ENGINEER.				CLE	
1.	STORM AND SANITARY SEWERS 375mm DIA. OR SMALLER SHALL BE PVC SDR35. SEWERS LARGER THAN 375mm SHALL BE CONCRETE CSA A 257.2 CLASS 100D AS PER OPSD 807.010.	-04				ACL
2.	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 300 mm WHERE THE SUBGRADE WILL CONSIST OF GREY SILTY CLAY.	Сп		HPA	*	АЗП
	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 500 TO 600 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.		EI <i>P. 1.</i>	DGE OF ASPHALT N. 0 4 1 0 7	— 0 3 0 3 (LT,) (REGISTERE
3.	FOR CONSTRUCTION DETAILS NOT SHOWN ON PLANS, REFERENCE SHALL BE MADE TO THE ONTARIO PROVINCIAL STANDARDS DRAWINGS AND CITY OF OTTAWA STANDARDS.				(CLOSE	D BY JUDGE'S O
4.	SERVICES TO BUILDINGS TO BE TERMINATED 1.0m FROM THE FACE OF BUILDING UNLESS OTHERWISE NOTED.					
5.	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 FLUSHED 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.					
6.	LASER ALIGNMENT CONTROL TO BE UTILIZED ON ALL SEWER INSTALLATIONS.				SOUTH O	F. ASH STREE
7. 8.	FROST PROTECTION PER CITY OF OTTAWA STANDARD DRAWING \$35 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 OPSS 410 AND OPSS 407. A	LOT	4			
9.	COPY OF THE INSPECTION REPORT SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW. STORM SERVICE CONNECTION AS PER CITY STD DWG \$11.1; SANITARY SERVICE CONNECTION AS PER CITY STD DWG \$11.1. SERVICES TO CONNECT TO THE OBVERT OF					
10.	THE MAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO VERIFY EXISTING SEWERS AND INVERTS, AND REPORT ANY DISCREPANCIES TO SITE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.		دا	.0m 200mm@ C	B	
11.	STORM AND SANITARY MANHOLES SHALL BE 1200mm DIAMETER IN ACCORDANCE WITH OPSD-701.01 (UNLESS OTHERWISE NOTED) c/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			CB 102A-1		2 x 25.1m - c/w WATE 900mmØ \$
	STORM MANHOLES WITH SEWERS 900mm DIA SEWERS AND OVER IN SIZE SHALL BE BENCHED. ALL OTHER STORM MANHOLES SHALL BE COMPLETED WITH 300mm SUMPS AS PER CITY STANDARDS, SANITARY MANHOLES SHALL NOT HAVE SUMPS.		— _	T/G=59.30 W/NE INV=56.17 SW INV=56.09		200mmØ \$ 900mmØ t 200mmØ t
12.	CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY STANDARDS c/w FRAME AND GRATE. REAR YARD CB'S SHALL BE AS PER S19.1, STREET CB'S AS PER S2 AND S19, AND CURB INLET CB'S AS PER S3, S22 AND S23. PROVIDE 150mm ADJUSTED SPACERS. ALL CATCH BASINS SHALL HAVE SUMPS (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 INSTALL FD			2.0m-200mm@ CB LEAD @ 1.00%		200mmØ I
13.	WITH INLET CONTROL DEVICES (ICD) AS PER ICD SCHEDULE ON STORM DRAINAGE PLAN. STREET CATCH BASINS TO BE INSTALLED C/W SUBDRAINS 3m LONG IN FOUR ORTHOGONAL DIRECTIONS OR LONGITUDINALLY WHEN PLACED ALONG A CURB			STM 102 (1200Ø) T/G=59.31		
14.	AND AT AN ELEVATION OF 300mm BELOW SUBGRADE LEVEL. SERVICE SIZES AND ELEVATIONS TO BE CONFIRMED BY MECHANICAL ENGINEER.			SE INV=55.97 NE INV=56.07		-
15.	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	LOT	4			
	SHOULD CONSIST OF RELATIVELY DRY AND COMPATIBLE BROWN SILTY CLAY PLACED IN MAXIMUM 225mm THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS SPMDD. THE CLAY SEALS SHOULD BE PLACED AT THE SITE BOUNDARIES AND AT STRATEGIC LOCATIONS AT NO MORE THAN 60m INTERVALS IN THE SERVICE TRENCHES. FOR DETAILS REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP DATED MARCH 21, 2025. REPORT NO. PG7468-1	(2	EX 438mm x 2- * //	. COMB 438mm) G=60.05	NORTAO	
· · · ·			SW IN SE IN	V=52.55 V=52.60	S STM @	
					300mm2	EX. STOI
· · · · · · · ·	CONSTRUCTION LIMIT	x v6. 6c2690	352	XX	×35.1m-6	AND RE 12.1m-4
]	<u>/PLAN_4R=36236</u> SUBJECT_TO_EASEMENT_AS_IN_INST. No. 0C2746'90 ////////////////////////////////////	<u> </u>	36 - X			T/G=59
						NW INV
					XV	
h	P.I.N. 04107-0312(LT) EX. STM (3600Ø) T/G=60.15	CESS		EX 150	1 	SUB
	BLOCK 4	n /		10mmø (*
	CONNECT TO EX. M INV=55.6	H 3 200Ø1		mø STM		+
	T/G= NW INV=	60.10 54.89		0.36% @ 0.30%	X	
	SE INV= NE INV=	56.16		071		





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PROPOSED WATERMAIN PROPOSED VALVE AND VALVE BOX PROPOSED VALVE CHAMBER PROPOSED REDUCER PROPOSED FIRE HYDRANT PROPOSED SANITARY SEWER PROPOSED STORM SEWER PROPOSED CATCHBASIN MANHOLE PROPOSED CATCHBASIN PROPOSED SUBDRAIN CATCHBASIN 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 SUBDRAIN CATCHBASIN CIRCULAR ORIFICE (SEE DWG SD-1)

Notes

1 ISSUED FOR REVIEW		WAJ	PM	25.04.29
Revision		Ву	Appd.	YY.MM.DD
File Name: 160401837-DB.dwg	WAJ	PM	WAJ	25.03.20
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project CITY OF OTTAWA

Title

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

CONCEPTUAL SITE SERVICING PLAN

Project No. 160401837	Scale 0 4 1:400	12 20m
Drawing No.	Sheet	Revision
SSP-1	2 of 7	1