COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.	GRADING NOTES:
DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF `ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.	1. TOPSOIL AND FILL, SUCH AS THOSE CONTAI DELETERIOUS MATERIALS, SHOULD BE STR BEDDING AND OTHER SETTLEMENT SENSITI
BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.	OR GEOTECHNICAL ENGINEER. 2. SITE-EXCAVATED SOIL CAN BE PLACED AS
RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.	MINOR CONCERN OF THE GROUND SURFAC AND AT LEAST COMPACTED BY THE TRACKS THESE MATERIALS ARE TO BE PLACED TO II
REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED	PAVED, THE FILL SHOULD BE COMPACTED I DENSITY OF 95% OF THE RESPECTIVE SPMI
ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.	3. CONSIDERATION MAY BE GIVEN FOR LEAVIN PAVED AREAS PROVIDED IT IS REVIEWED IN PATERSON PERSONNEL AND SUBSEQUENT ROLLER. PROOF-ROLLING SHOULD BE COM AND UNDER THE SUPERVISION OF PATERSO
THE SITE BENCHMARK IS CURRENTLY SET ON TOP OF THE FIRE HYDRANT SPINDLE (ELEV. = 109.12), LOCATED AT THE INTERSECTIN OF CULDAFF ROAD AND BERMONDSEY WAY. BENCHMARK #2 IS THE TOP OF HYDRANT SPINDEL (ELEV = 109.29), LOCATED ON DERREEN AVENUE ACCROSS THE ROAD FROM THE PROJECTION OF THE EAST PROPERTYLINE. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD-1928:1978 GEODETIC DATUM. REFER TO THE FARLEY, SMITH & DENIS SURVEYING LTD. 2024 TOPOGRAPHIC	GRANULARS. 4. IF SOFT SPOTS DEVELOP IN THE SUBGRADE TRAFFIC, THE AFFECTED AREAS SHOULD BE TYPE II MATERIAL. AS RECOMMENDED BY TI
REFERRED TO THE CGVD-1928, 1978 GEODETIC DATOM. REFER TO THE PARLET, SMITH & DENIS SORVETING LTD. 2024 TOPOGRAPHIC SKETCH OF # 425 CULDAFF ROAD, CITY OF OTTAWA. REFER TO GEOTECHNICAL REPORT (No. PG7040-1, DATED MAY 21, 2024), PREPARED BY PATERSON GROUP FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT. OF THE GRANULAR MATERIAL.	5. FILL USED FOR GRADING BENEATH THE BAS CONSIST, UNLESS OTHERWISE SPECIFIED, GRANULAR A, GRANULAR B TYPE II OR SELE TESTED AND APPROVED PRIOR TO DELIVER
REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.	GREATER THAN 300 mm THICK AND COMPA THE LIFT THICKNESS. FILL PLACED BENEA LEAST 95% OF ITS SPMDD.
REFER TO SERVICING AND STORMWATER MANAGEMENT REPORT PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD, (DATED FEBRUARY 28, 2025).	6. THE PAVEMENT GRANULAR BASE AND SUB LIFTS AND COMPACTED TO A MINIMUM OF 1
SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10). PROVIDE LINE/PARKING PAINTING.	EQUIPMENT. 7. MINIMUM OF 2% GRADE FOR ALL GRASS AF
CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL SERVICING AS-BUILT INFORMATION	8. MAXIMUM TERRACING GRADE TO BE 3:1 UN
SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, T/WM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.	<ol> <li>ALL GRADES BY CURBS ARE EDGE OF PAVE</li> <li>ALL CURBS SHALL BE BARRIER CURB (150m</li> </ol>
CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.	<ol> <li>ALL CORES SHALL BE BARRIER CORE (1901)</li> <li>BACKFILL MATERIAL BELOW SIDEWALK AND SENSITIVE STRUCTURES WHICH ARE NOT A</li> </ol>
SPECIFICATIONS:	FREE-DRAINING,NON-FROST SUSCEPTIBLE MAXIMUM 300 MM THICK LOOSE LIFTS AND
ITEM         SPEC. No.         REFERENCE           CATCHBASIN (600x600mm)         705.010         OPSD           STORM / SANITARY MANHOLE (1200Ø)         701.010         OPSD	AND ABOVE FREEZING CONDITIONS. 6. REFER TO LANDSCAPE PLAN FOR PLANTING
STORM / SANITARY MANHOLE (1500Ø)         701.011         OPSD           CB, FRAME & COVER         400.020         OPSD	7. CONTRACTOR TO PROVIDE THE CONSULTA ELEVATIONS OF ALL DESIGN GRADES SHOW
STORM / SANITARY MH FRAMES25CITY OF OTTAWASANITARY COVERS24CITY OF OTTAWASTORM COVER (CLOSED)S24.1CITY OF OTTAWA	
STORM COVER (OPEN)S28.1CITY OF OTTAWASEWER TRENCHS6 & S7CITY OF OTTAWASTORM SEWERPVC DR 35	PAVEMENT STRUCTURE:
SANITARY SEWER     PVC DR 35       CATCHBASIN LEAD     PVC DR 35	CAR ONLY PARKING AREAS • 50mm HL3 OR SUPERPAVE 12.5 • 150mm ORSS GRAN "A" CRUSHED STONE
LATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 2.0m COVER WITH 50mmX1200mm HI-40 INSULATION. PROVIDE 150mm RANCE BETWEEN PIPE AND INSULATION (REFER TO DETAIL).	<ul> <li>150mm OPSS GRAN "A" CRUSHED STONE</li> <li>300mm OPSS GRAN "B" TYPE II</li> <li>(SUBGRADE - EITHER IN SITU SOIL, FILL OR OPSS G</li> </ul>
SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0% (2.0% IS PREFERRED).	B TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL HEAVY-TRUCK TRAFFIC AND LOADING AREAS
SEWER SERVICE CONNECTIONS PER CITY OF OTTAWA DETAILS S11 AND S11.1. THE PIPE BEDDING FOR THE SEWER AND WATER PIPES SHOULD CONSIST OF AT LEAST 150 MM OF OPSS GRANULAR A. THE BEDDING LAYER THICKNESS SHOULD BE INCREASED TO A MINIMUM OF 300 MM WHERE THE SUBGRADE WILL CONSIST OF GREY SILTY CLAY. THE MATERIAL SHOULD BE PLACED IN A MAXIMUM 225 MM THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 99% OF ITS SPMDD. THE BEDDING MATERIAL SHOULD EXTEND AT LEAST TO THE SPRING LINE OF THE PIPE.	<ul> <li>40mm HL3 OR SUPERPAVE 12.5</li> <li>50mm HL8 OR SUPERPAVE 19.0</li> <li>150mm OPSS GRAN "A" CRUSHED STONE</li> <li>450mm OPSS GRAN "B" TYPE II</li> <li>(SUBGRADE - EITHER IN SITU SOIL, FILL OR OPSS G</li> <li>B TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL</li> </ul>
99% OF ITS SPMDD. THE BEDDING MATERIAL SHOULD EXTEND AT LEAST TO THE SPRING LINE OF THE PIPE. THE COVER MATERIAL, WHICH SHOULD CONSIST OF OPSS GRANULAR A, SHOULD EXTEND FROM THE SPRING LINE OF THE PIPE TO AT LEAST 300 MM ABOVE THE OBVERT OF THE PIPE. THE MATERIAL SHOULD BE PLACED IN MAXIMUM 225 MM THICK LIFTS AND	NOTE:
COMPACTED TO A MINIMUM OF 99% OF ITS SPMDD	
WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE THE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE FROST ZONE (ABOUT 1.8 M BELOW FINISHED GRADE) SHOULD MATCH THE SOILS EXPOSED AT THE TRENCH WALLS TO MINIMIZE DIFFERENTIAL FROST HEAVING. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 300 MM THICK LOOSE LIFTS AND	<ul> <li>MINIMUM PERFORMANCE GRADED (PG) 58-34 ASPHA CEMENT.</li> </ul>
FROST ZONE (ABOUT 1.8 M BELOW FINISHED GRADE) SHOULD MATCH THE SOILS EXPOSED AT THE TRENCH WALLS TO MINIMIZE DIFFERENTIAL FROST HEAVING. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 300 MM THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD. FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE	
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WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE THE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE         FROST ZONE (ABOUT 1 & M BELOW FINISHED GRADE) SHOULD MATCH THE SOILS EXPOSED AT THE TRENCH WALLS TO MINIMIZE         DIFFERENTIAL FROST HEAVING. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 300 MM THICK LOOSE LIFTS AND         COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMOD.         FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.         THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24.         DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEVER MAIN. THE FIELD TESTS SHALL BE CORTORMED IN THE PRESENCE OF A CERTIFIED PROFER CONNECTION TO THE SANITARY SEVER MAIN. THE FIELD TESTS SHALL BE CORTORMED IN THE PRESENCE OF A CERTIFIED PROFER CONNECTION TO THE SANITARY SEVER MAIN. TA CERTIFIED COPY OF THE TEST RESULTS.         STORM MANHOLES AND CBMHS ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.         COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPHALT. UPON COMPLETED IN SALE CONTRACT, THE CONTRACT OR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APHALT. UPON COMPLETION OF CONTRACT, THE SUBGRADE SURFACE SHOULD BE SHAPED TO PROMOTE WATER FLOW TO THE DRAINES EXTENDING IN TWO DIRECTIONS AT THE SUBGRADE SURFACE SHOULD BE SHAPED TO PROMOTE WATER FLOW TO THE DRAINAGE LINES.         SPECIFICATIONS:       THE MAIN TRENCHING	CEMENT.
WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE THE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE FROST ZOME (ABOUT 1 & M BELOW FINISHED GRADE) SHOULD MATCH THE SOILS EXPOSED AT THE TRENCH WALLS TO MINIMIZE DIFFERENTIAL FROST HEAVING. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 300 MM THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD.         FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADE FOR THE PIPE CAN BE ELIMINATED.         THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PIECD TESTS FOR QUALITY CONTROL OF ALL SAMITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SAMITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SAMITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.         STORM MANHOLES AND CBMHS ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.       CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPLIATENANCES.         ALL CATCHBASINS AND CATCHBASIN MANHOLES TO BE PROVIDED WITH MINIMUM 3 METER LONG PERFORATED SUBDRAINS EXTENDING IN TWO DIRECTIONS ATT THE SUBGRADE EVEL. SUBDRAIN IS TO BE PROVIDED AT THE TRANSITIONS BETWEEN DIFFERENT PAVEMENT COMPOSITIONS. THE SUBGRADE EVEL. SUBDRAIN IS TO BE PROVIDED AT THE TRANSITIONS BETWEEN DIFFERENT PAVEMENT COMPOSITIONS. THE SUBGRADE EVEL. SUBDRAIN IS TO BE PROVIDED AT THE TRANSITIONS BETWEEN DIFFERENT PAVEMENT COMPOSITIONS. THE SUBGRADE EVELS SHOULD BE SHAPED TO PROMOTE WATER FLOW TO THE DRAINAGE LINES.         SPECIFICATIONS: <u>TIEM</u> WATERMAIN TRENCHING THERMAIN ROROSING BELOW SEWERRABOVE SEWER W22 (W25.2 CITY OF OTTAWA WATERMAIN CRO	CEMENT.
WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE THE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE         FROST BACING. SHE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 300 MM THICK LOOSE LIFTS AND         COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD.             FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIESE TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE         SEAL AND DURASSAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.             THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL         SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16.04 AND 407.07.24.             DYE TESTING IS TO BE COMPLETED ON ALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16.04 AND 407.07.24.             DYE TESTING IS TO BE COMPLETED ON ALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16.04 AND 407.07.24.             DYE TESTING IS TO BE COMPLETED ON ALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16.04 AND 407.07.24.             DYE TESTING ISTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16.04 AND 407.07.24.             DYE TESTING ISTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.             SOUNTACT, THE TOOR THE TEST STOR MORE CONNECTION TO THE SANTRY SEWER             SOUNTACT, THE TEST SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.             CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.             CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES. <td>CEMENT.</td>	CEMENT.
WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE THE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE         FROST BACING. SHE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 300 MM THICK LOOSE LIFTS AND         COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD.          FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIESS TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE         SEAL AND DURSEAUL. THE CONCRET CRADLE FOR THE PIPE CAN BE ELIMINATED.          THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL         SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16, 40.07.16, 40.07.16, 40.07.16, 410.07	CEMENT.
MARCH RAD SURFACE AREA SARE CONSIDERED ABOVE THE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE FROST SZONE (ABOUT 18 M BELOW FINISHED GRADE) SHOULD MATCH THE SOLIS EXPOSED AT THE TRENCH WALLS TO MINIMIZE DIFFERENTIAL FROST HEA/ING. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 300 MM THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD.         FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONDECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND DURSAEAL). THE CONCRETE CRADE FOR THE PIPE CAN BE ELIMINATED.         THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPS8 410.07.16, 41.007.16.04 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SMITLAY SEWER MATERY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESOLTS.         STORM MANHOLES AND CBMHS ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.         CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS. 200mm/0 OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONDED TO THE MAD CLEAN ALL SEWERS & APPURTENANCES.         ALL CATCHBASINS AND CATCHBASIN MANHOLES TO BE PROVIDED WITH MINIMUM 3 METER LONG PERFORATED SUBDRAINS EXTENDING IN TWO DIRECTIONS AT THE SUBGRADE EVEL. SUBDRAIN IS TO BE PROVIDED TO TRAMASING MATER FLOW TO THE DRAINAGE LINES.         SPECIFICATIONS.       THE SUBGRADE EVEL SUBDRAIN IS TO BE PROVIDED TO TRAVA WITERMAIN ROUGNES TRUCKARIABOVE SEWER WZ2 / WZ5 2 CITV OF OTTAWA WITERMAIN ROUGNES THAN AND ALPUTTEMANCES IN ACCORDANCE WITH ERTRAINS BY THE DRAINAGE LINES.	CEMENT.
WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE THE TRENCH BACKFLL, THE TRENCH BACKFLL MATERIAL WITHIN THE FRONT SCOME (ABOUT 1.8 M BELOW FINISHED GRADE) SHOULD MATCH THE SOLIS EXPOSED AT THE TRENCH BALKLIS TO MINIMIZE OUPACIED TO A MINIMUM OF 95% OF THE MATERIAL'S SPHADD.         DEFFERENTIAL FROST HEAVING, THE TRENCH BACKFLL SHOULD BE ELVICED IN AVAILUM 300 MM THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPHADD.         THE UNNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SMITARY SEVER SUBAXOR TESTINS SHALL BE COMPLETED IN ALCCORDANCE TWIT POPSA 100:16, 410:07, 16, 410:0	CEMENT.
WHERE HARD SUFFACE ARES ARE CONSIDERED ABOVE THE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE FROST SOME (ABOUT 13 M BELOW FINISHED GRADE) SHOULD MATCH THE SOILS EXPOSED AT THE TRENCH WALLS TO MININIZE DIFFERENTIAL FROST HEAVING. THE TERECHE BACKFILLS SHOULD BE PLACED IN MAXIMUM 300 MM THICK LOOSE LIFTS AND COMPACTED TO A MININUM OF 95% OF THE MATERIAL'S SPHDD.           FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX. POSITIVE SEAL AND DURASEAL). THE CONCENTE CRADE FOR THE PIPE CAN BE ELMINATED.           THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FELD TESTS FOR QUALITY CONTROL OF ALL SAMITARY SEWERS. LEAKGE TESTING SHALL BE COMPLETED TO MACORDANCE WITH ORS 41007 16, 400 710, 72.           AND MOVER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FELD TESTS FOR QUALITY CONTROL OF ALL SAMITARY SEWERS. LEAKGE THE STING SHALL BE COMPLETED IN ACCORDANCE WITH ORS 41007 16, 400 710, 72.           AND THE TESTS SHALL BE PERFORMED THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED CONFORTING THE SUBGRADE SUBMERS IN DICCATED.           CONTRACTOR TO TELEVISE (CITY) ALL PROPOSED SEWERS 3200mm07 OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.           ALL CATCHASINS AND CATCHASIN MANHOLES TO BE PROVIDED WITH MINIMUM 3 METER LONO PERFORMETE SUBDRAINS DIFFERENT PAVEMENT COMPOSITIONS. THE SUBGRADE SURFACE SHOULD BE SHAPED TO PROMOTE WATER FLOW TO THE DRAINAGE LINES.           SPECIFICATIONS: THERMAIN INSLICTON IN SHALLOW TRENCHES WERE W22 CITY OF OTTAWA YOU DRACTORS AT THE SUBGRADE SEWER W22 CITY OF OTTAWA YOU DRACTORS AND SECONSEVERASOVE SEWER W22 CITY OF OTTAWA YOU DRACTORS AND SECONSTRUCTED TO WERENASON	CEMENT.
WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE THE TRENCH BACKFLL, THE TRENCH BACKFLL MATERIAL WITHIN THE PROST SOME (ABOUT 1 AM BELOW FINISHED GRADE) SHOULD MATCH THE SOLIS EXPOSED AT THE TRENCH MALLS TO MINIMIZE DIFFERENTIAL TRENCH HAVING. THE TRENCH BACKFLL SHOULD BE FLACED IN MAXIMUM 300 MMT THICK LOSE LIFTS AND COMPACTED TO A MINIMUM OF 93% OF THE MATERIAL'S SPHDD.         FLEXBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIFES TO MANHOLES (FOR EXAMPLE KOR-M-SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIFE CAN BE ELIMINATED.         THE OWNER SHALL REQUIRE THAT THE BITS SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SMAITARY SEVERS. LEAKAGE TESTING SHALL BE COMPLETED IN MACCORDANCE' WITH OPSR 401013, 41007 16, 4100 716, 4	CEMENT.
WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE THE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE PROST 200E (ABOUT 18 M BELOW FINISHED GRADE) SHOULD MATCH THE SOLIS EXPOSED AT THE TRENCH MALLS TO MINIMIZE DIFFERENTIAL TRENCH HAVEN, THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 300 MMT THICK LOSSE LIFTS AND COMPACTED TO A MIMIMUM OF 95% OF THE MATERIAL'S SPHIDD.           PERMISE CONSTRUCTED TO A MIMIMUM OF 95% OF THE MATERIAL'S SPHIDD.         THE OWNER SHALL REQUIRE THAT THE BIT SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEVERS LEAKAGE TESTING SHALL BE OWNEETTIED IN LACCORDANCE' WITH OPS8 A10017.6, 410.07.16,	CEMENT.

UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR

DAMAGE TO THEM.

## THOSE CONTAINING SIGNIFICANT AMOUNTS OF ORGANIC OR HOULD BE STRIPPED FROM UNDER ANY BUILDINGS, PAVED AREAS, PIPE MENT SENSITIVE STRUCTURES. AS DIRECTED BY THE SITE ENGINEER

E PLACED AS GENERAL LANDSCAPING FILL WHERE SETTLEMENT IS A OUND SURFACE. THESE MATERIALS SHOULD BE SPREAD IN THIN LIFTS BY THE TRACKS OF THE SPREADING EQUIPMENT TO MINIMIZE VOIDS. IF PLACED TO INCREASE THE SUBGRADE LEVEL FOR AREAS TO BE COMPACTED IN MAXIMUM 300 mm THICK LIFTS AND TO A MINIMUM SPECTIVE SPMDD

EN FOR LEAVING IN-SITU FILL IN PLACE AT THE SUBGRADE LEVEL OF S REVIEWED IN THE FIELD AT THE TIME OF CONSTRUCTION BY SUBSEQUENTLY PROOF-ROLLER BY A SUITABLY-SIZED SHEEPSFOOT OULD BE COMPLETED UNDER DRY AND ABOVE-FREEZING CONDITIONS ON OF PATERSON PERSONNEL PRIOR TO THE PLACEMENT OF

THE SUBGRADE DURING COMPACTION OR DUE TO CONSTRUCTION AS SHOULD BE EXCAVATED AND REPLACED WITH OPSS GRANULAR B MENDED BY THE GEOTECHNICAL ENGINEER.

NEATH THE BASE AND SUBBASE LAYERS OF PAVED AREAS SHOULD E SPECIFIED, OF CLEAN IMPORTED GRANULAR FILL, SUCH AS OPSS YPE II OR SELECT SUBGRADE MATERIAL. THIS MATERIAL SHOULD BE OR TO DELIVERY TO THE SITE. THE FILL SHOULD BE PLACED IN LIFTS NO AND COMPACTED USING SUITABLE COMPACTION EQUIPMENT FOR LACED BENEATH THE PAVED AREAS SHOULD BE COMPACTED TO AT

BASE AND SUBBASE SHOULD BE PLACED IN MAXIMUM 300 MM THICK MINIMUM OF 100% OF THE SPMDD WITH SUITABLE VIBRATORY

E TO BE 3:1 UNLESS OTHERWISE NOTED.

150 CONC GUTTER

EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.

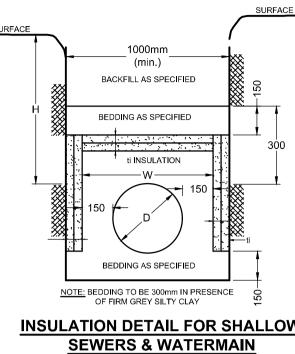
SIDEWALK AND WALKWAY SUBGRADE AREAS OR OTHER SETTLEMENT CH ARE NOT ADJACENT TO THE BUILDINGS SHOULD CONSIST OF SUSCEPTIBLE MATERIAL. THIS MATERIAL SHOULD BE PLACED IN

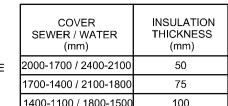
## FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.

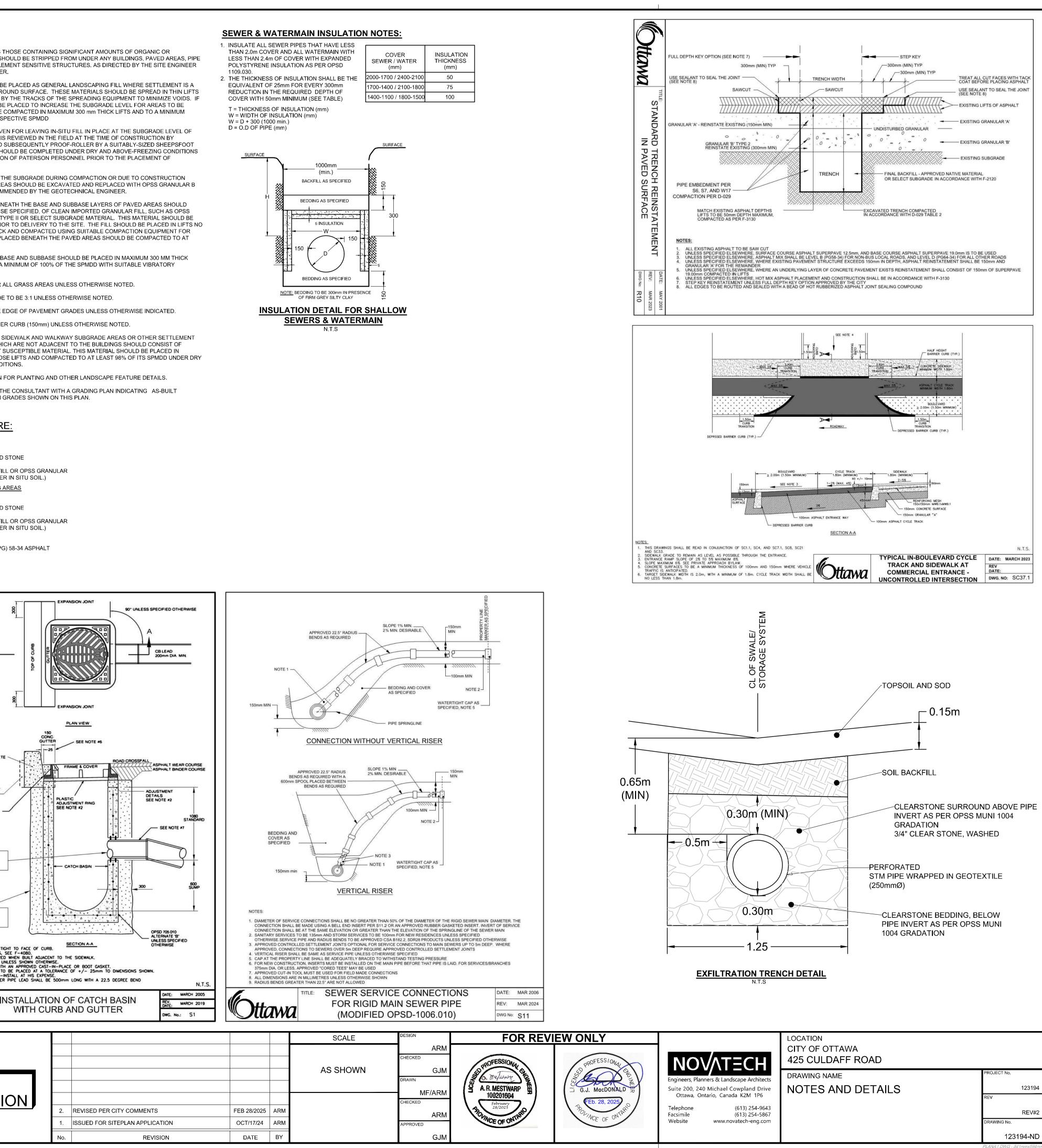
HE CONSULTANT WITH A GRADING PLAN INDICATING AS-BUILT GRADES SHOWN ON THIS PLAN.

THAN 2.0m COVER AND ALL WATERMAIN WITH LESS THAN 2.4m OF COVER WITH EXPANDED POLYSTYRENE INSULATION AS PER OPSD

- EQUIVALENT OF 25mm FOR EVERY 300mm REDUCTION IN THE REQUIRED DEPTH OF COVER WITH 50mm MINIMUM (SEE TABLE)







					SCALE		FOR REVI	EW ONLY
7					AS SHOWN	ARM CHECKED GJM DRAWN MF/ARM	A.R. MESTWARP	G.J. MacDONALD
	2.	REVISED PER CITY COMMENTS	FEB 28/2025	ARM			BOUNCE OF ONTATIO	PROLINCE OF ONTAR
	1.	ISSUED FOR SITEPLAN APPLICATION	OCT/17/24	ARM		APPROVED	INCE OF ON	SL OI
	No.	REVISION	DATE	BY		GJM		