GENERAL NOTES

- 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS. 2. 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.
- 3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA, MINISTRY OF THE ENVIRONMENT AND THE MISSISSIPPI VALLEY CONSERVATION AUTHORITY BEFORE COMMENCING CONSTRUCTION.
- 4. 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.
- 5. 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.
- 6. 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 OF AT A LICENSED LANDFILL FACILITY.
- 7. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- 8. TO PROTECT BREEDING BIRDS, NO TREE OR SHRUB REMOVAL IS TO OCCUR BETWEEN APRIL 1ST AND AUGUST 15TH (MUNCASTER ENVIRONMENTAL PLANNING). 9. NO IN-STREAM WORKS WITHIN THE WATERCOURSE IS TO OCCUR BETWEEN MARCH
- 15TH AND JUNE 30TH (MUNCASTER ENVIRONMENTAL PLANNING. 10. REFER TO STORMWATER MANAGEMENT REPORT(R-2023-010) PREPARED BY
- NOVATECH ENGINEERING CONSULTANTS LTD. 11. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- 12. PROVIDE LINE/PARKING PAINTING. 13. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL SERVICING AS-BUILT INFORMATION 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.

GRADING NOTES:

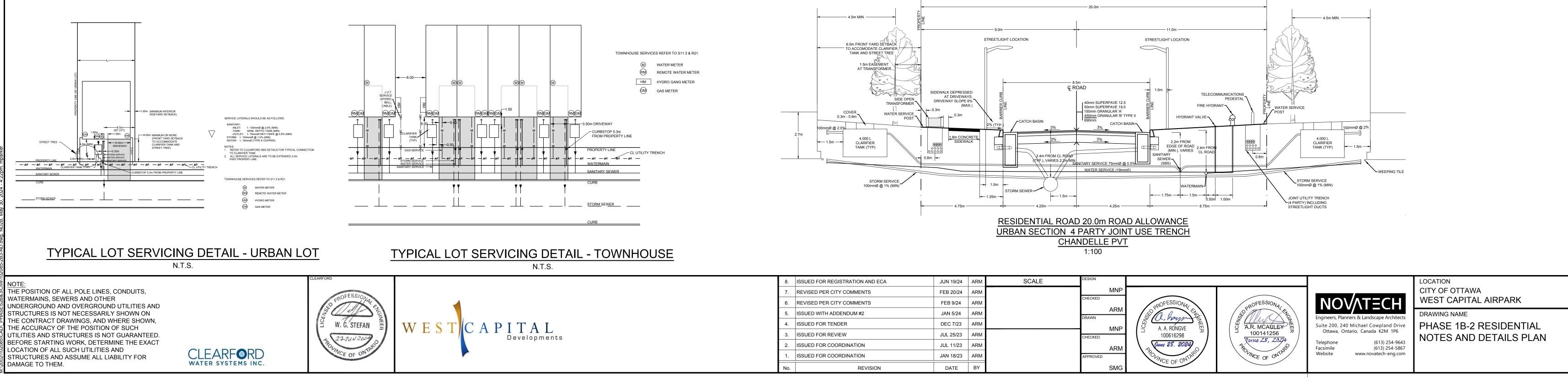
- 1. ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF OTTAWA AND ONTARIO PROVINCIAL STANDARDS.
- 2. MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
- 3. MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
- 4. ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
- 5. ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1.1).
- 6. MATCH EXISTING ELEVATIONS AT ALL BOUNDARIES WITH ADJACENT LOTS.
- 7. SIDEWALK CROSSFALL NOT TO EXCEED 2%.
- 8. MINIMUM REARYARD SWALE GRADE IS 1.5%. MINIMUM REARYARD SWALE GRADE WITH THE INSTALLATION OF A SUBDRAIN SYSTEM IS 1.0%. SWALES TO BE 0.9m OFFSET FROM REAR PROPERTY LINE.
- 9. ALL DRIVEWAY SLOPES ARE TO BE BETWEEN 2% AND 6%.
- 10. IF MINIMUM PERMISSIBLE USF (MUSF) IS TO BE USED FOR A LOT, THEN TOP OF FOUNDATION, LOT GRADING, ETC IS TO BE ADJUSTED ACCORDINGLY.
- 11. REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
- 13. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING AS-BUILT ELEVATIONS OF ALL DESIGN GRADES SHOWN ON THIS PLAN.

SEWER NOTES:

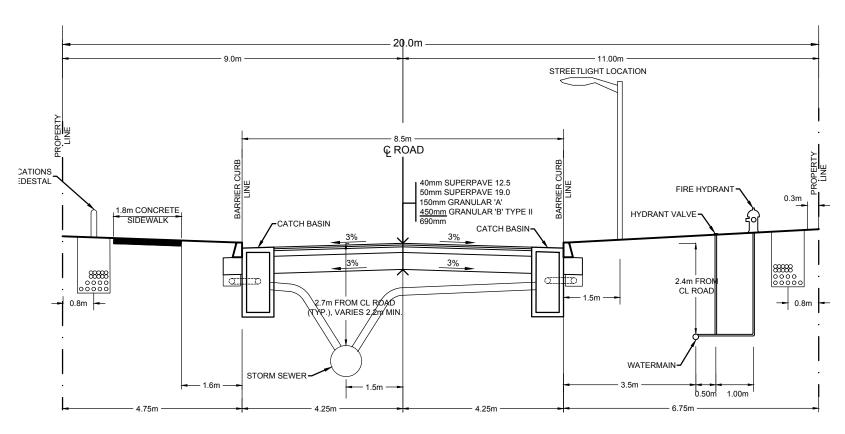
- 1. SPECIFICATIONS: REFERE OPSE SPEC. No. 705.010 CATCHBASIN (600x600mm STORM MANHOLE (1200Ø) 701.010 400.020 CB, FRAME & COVER STORM MH FRAME 401.010 CITY OF OTT STORM MH COVER S24.1 SEWER TRENCH - BEDDING (GRANULAR A) COVER (GRANULAR A OR GRANULAR B TYPE I, WITH MAXIMUM PARTICLE SIZE=25mm) STORM SEWER (250mmØ to 375mmØ) PVC DR 35 CONC 65-D STORM SEWER (450mmØ to 1650mmØ) CATCHBASIN LEAD PVC DR 35 ROAD SUBDRAIN (6m STUBS (3mx2) AT EACH CB) R1 CITY OF OTT
- 2. INSULATE ALL STORM PIPES THAT HAVE LESS THAN 1.5m COVER WITH 50mmX120 HI-40 INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION 3. SERVICES ARE TO BE CONSTRUCTED TO 2.0m PAST PROPERTY LINE AT A MINIMU
- SLOPE OF 1.0%.
- 4. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
- 5. FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLE (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRE CRADLE FOR THE PIPE CAN BE ELIMINATED.
- 6. STORM MANHOLES AND CBMHS ARE TO HAVE 300mm SUMPS UNLESS OTHERWIS INDICATED. 7. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREAT PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE
- CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
- 8. THE CONTRACTOR IS ADVISED THAT THE EXISTING VORTECHS UNIT WILL REMAIN SERVICE DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO MAINT FREE OF DEBRIS, MONITOR ON A REGULAR BASIS, AND CLEAN AS REQUIRED AN ONCE CONSTRUCTION IS COMPLETE.

GEOTECHNICAL NOTES:

- 1. REFER TO GEOTECHNICAL INVESTIGATION REPORT (PG2450-2, REVISION 1, DATED JANUARY 16, 2023), PREPARED BY GEMTEC FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE COND AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
- 2. ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVE FROM BENEATH THE PROPOSED ROADWAYS AS DIRECTED BY THE SITE ENGINEEI GEOTECHNICAL ENGINEER.
- 3. EXPOSED SUBGRADE IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED W LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL ENGINEER TO THE PLACEMENT OF GRANULARS.
- 3. ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVAT AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- 4. THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 100% OF THE STANE PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USE BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 95% O STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
- 5. THE SUBGRADE SHOULD BE SHAPED AND CROWNED TO PROMOTE DRAINAGE OF ROADWAY GRANULARS. 6. FOR AREAS OF THE ROADWAY THAT REQUIRE THE SUBGRADE TO BE RAISED, IT
- CONSIDERED THAT SOME OF THE DRIER NATIVE MATERIALS COULD BE USED FOR PURPOSE OR THE MATERIAL COULD CONSIST OF OPSS SELECT SUBGRADE MATI OR OPSS GRANULAR B TYPE I OR TYPE II. ANY MATERIALS PROPOSED FOR THIS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE PLACEMENT.
- 7. GEOTECHNICAL INSPECTION OF SUBGRADE AND CONFIRMATION OF PAVEMENT STRUCTURE IS REQUIRED BEFORE PLACEMENT OF ANY GRANULAR MATERIAL.
- 8. GRANULAR MATERIALS (GRANULAR A AND GRANULAR B) SHOULD BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.

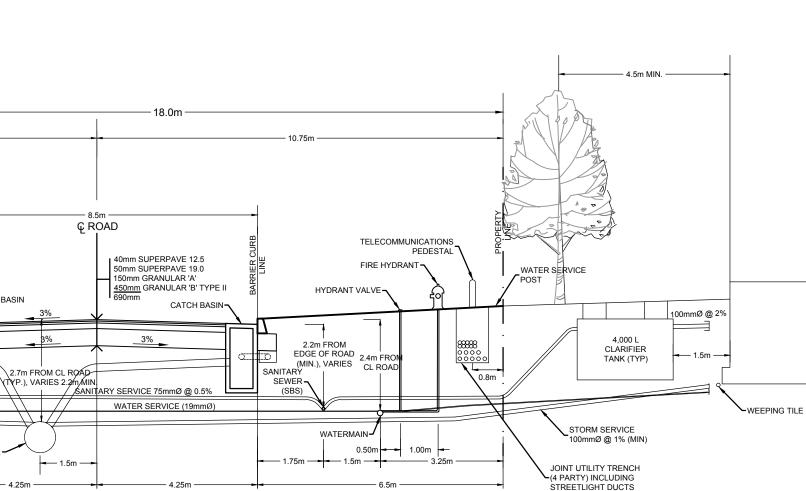


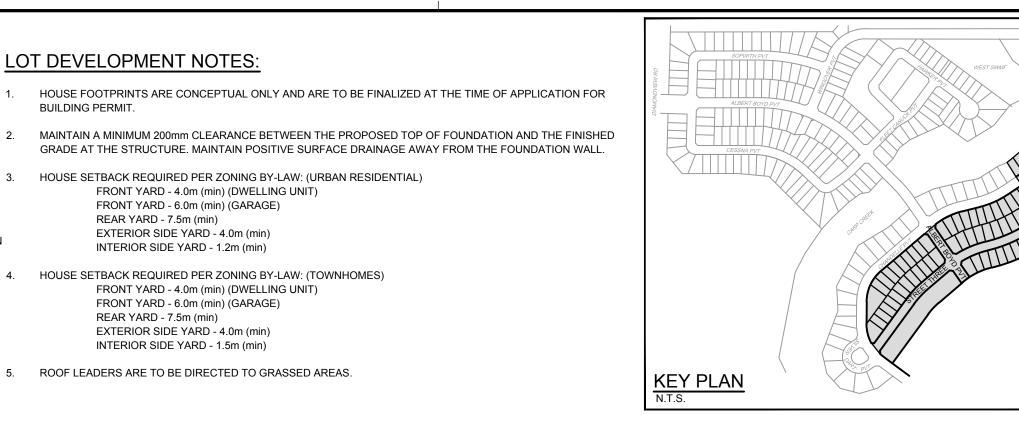
	WATERMAIN NOTES:	EROSION AND SEDIMENT CONTROL NOTES:
EFERENCE OPSD OPSD OPSD OPSD Y OF OTTAWA	1. SPECIFICATIONS: ITEM SPEC. №. REFERENCE WATERMAIN TRENCHING W17 CITY OF OTTAWA THERMAL INSULATION IN SHALLOW TRENCHES W22 CITY OF OTTAWA WATERMAIN CROSSING BELOW SEWER W25 CITY OF OTTAWA WATERMAIN PVC DR 18 HYDRANT HYDRANT WSD-24 CITY OF OTTAWA VALVE AND VALVE BOX WSD-19 CITY OF OTTAWA	(REFER TO DRAWING 102085-ESC FOR EROSION AND SEDIMENT CONTROL NOTES) SEEPAGE BARRIERS NOTES: 1. INSTALL SEEPAGE BARRIERS AS PER CITY OF OTTAWA STANDARD (S8). 2. SEEPAGE BARRIER SHALL EXTEND FROM TRENCH WALL TO TRENCH WALL, AND FROM SEWER SUB GRADE LEVEL TO
Y OF OTTAWA 0mmX1200mm ULATION.	 SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. PROVIDE MINIMUM 0.3m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS. 	TERMINATE EITHER WITHIN THE NATIVE SOIL BACK FILL OR TOP OF THE EXISTING SUB SURFACE ROCK. 3. SEEPAGE BARRIERS SHALL CONSIST OF 1.5m WIDE WEATHERED DRY (COMPATIBLE) SILTY CLAY COMPACTED IN THIN LIFTS TO AT LEAST 95% STANDARD PROCTOR DENSITY. 4. REFER TO PLAN AND PROFILE DRAWINGS FOR LOCATION OF SEEPAGE BARRIERS.
A MINIMUM AST 95% OF	 WATER SERVICE IS TO BE CONSTRUCTED 2.0m PAST PROPERTY LINE, PLUS AN 8m COIL, UNLESS OTHERWISE INDICATED. 	
ANHOLES CONCRETE	 PAVEMENT STRUCTURE NOTES: REFER TO GEOTECHNICAL NOTES. 1. ALL ROADWAYS TO HAVE 3% CROSSFALL INCLUDING SUBGRADE AND GRANULAR BASE. 2. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS ARE PER CITY OF OTTAWA STANDARD DETAIL (R10). 	
R GREATER THE	3. PERFORATED PIPE SUB-DRAINS TO BE PROVIDED AT SUBGRADE LEVEL EXTENDING FROM THE CATCHBASIN FOR A DISTANCE OF 3.0m, PARALLEL TO THE CURB IN TWO DIRECTIONS. REFER TO CITY OF OTTAWA SUBDRAIN INSTALLATION DETAIL (R1).	4.5m MIN
L REMAIN IN TO MAINTAIN IRED AND	 TYPICAL ROADSIDE CATCHBASIN'S SHALL BE INSULATED AS PER CITY OF OTTAWA STANDARD W23, WHERE REQUIRED. PROVIDE LINE PAINTING. PAVEMENT STRUCTURE: RESIDENTIAL ROADWAYS: 	TO ACCOMODATE CLARIFIER TANK AND STREET TREE 1.5m EASEMENT AT TRANSFORMER
1, DATED NS, TE CONDITIONS L. REMOVED ENGINEER OR OLLED WITH A NGINEER PRIOR EXCAVATED WITH THE NAGE OF THE NAGE OF THE SED, IT IS ISED FOR THIS DE MATERIAL OR THIS USE MENT.	40mm ASPHALTIC CONCRETE (WEAR COURSE, SUPERPAVE 12.5, PG 58 - 34) 50mm ASPHALTIC CONCRETE (BINDER COURSE, SUPERPAVE 19.0, PG 58 - 34) 150mm OPSS GRANULAR "A" CRUSHED STONE 450mm 90mm	DOWN DE RVICE UNITER SERVICE UNITER SERVICE





- 4.25m ------_____ 4.25m — **IDENTIAL ROAD 18.0m ROAD ALLOWANCE** AN SECTION 4 PARTY JOINT USE TRENCH STREET THREE





3. HOUSE SETBACK REQUIRED PER ZONING BY-LAW: (URBAN RESIDENTIAL)

FRONT YARD - 4.0m (min) (DWELLING UNIT)

FRONT YARD - 6.0m (min) (GARAGE)

EXTERIOR SIDE YARD - 4.0m (min)

INTERIOR SIDE YARD - 1.2m (min)

4. HOUSE SETBACK REQUIRED PER ZONING BY-LAW: (TOWNHOMES)

FRONT YARD - 6.0m (min) (GARAGE)

EXTERIOR SIDE YARD - 4.0m (min)

INTERIOR SIDE YARD - 1.5m (min)

5. ROOF LEADERS ARE TO BE DIRECTED TO GRASSED AREAS.

FRONT YARD - 4.0m (min) (DWELLING UNIT)

REAR YARD - 7.5m (min)

REAR YARD - 7.5m (min)

BUILDING PERMIT.

