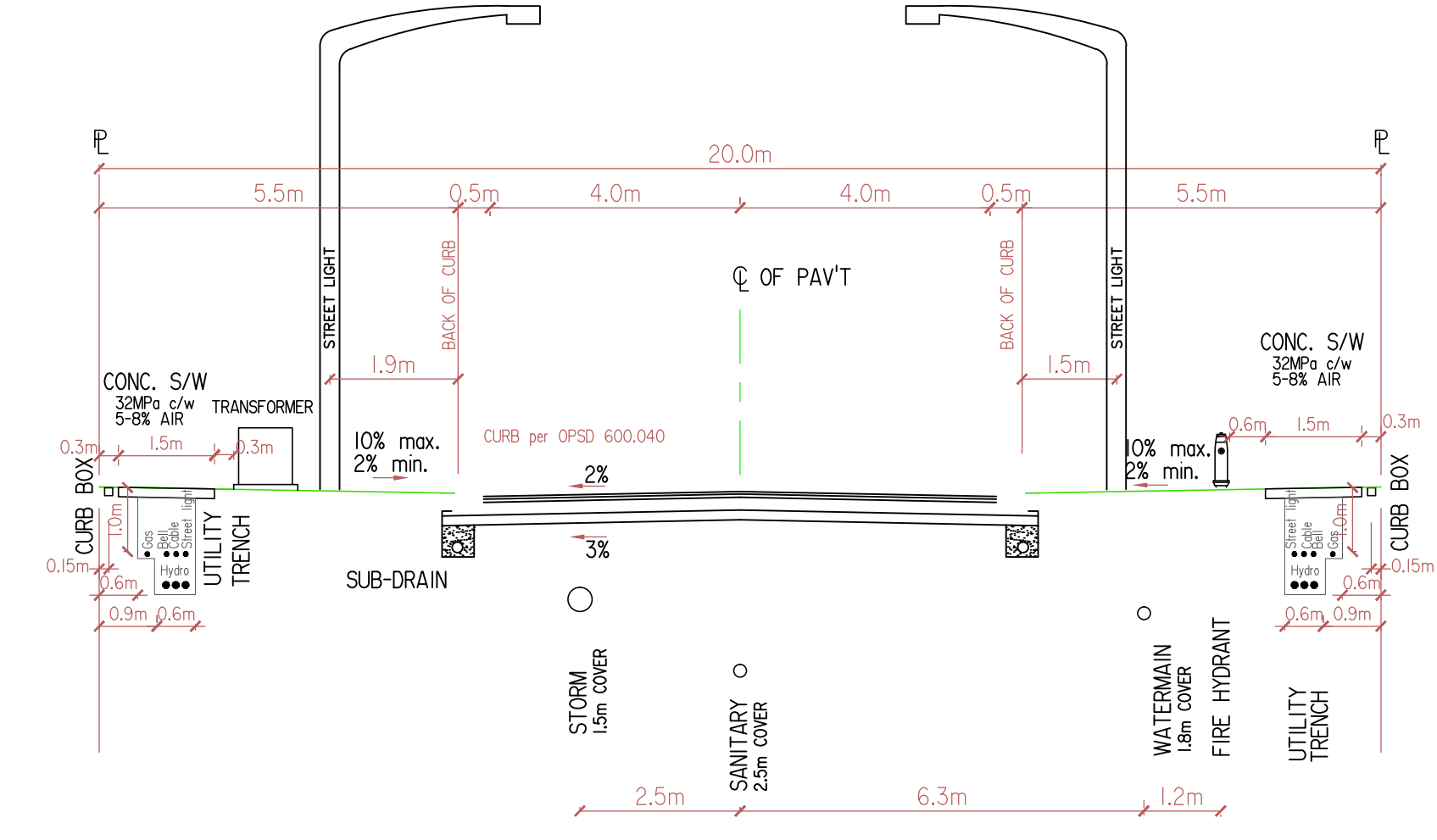
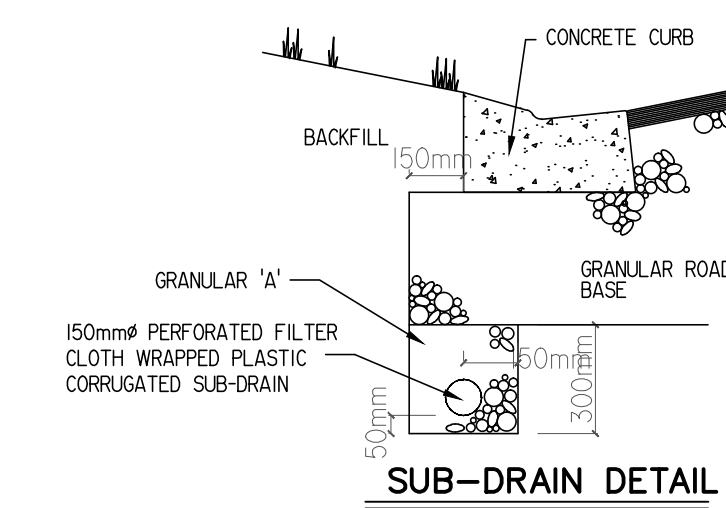
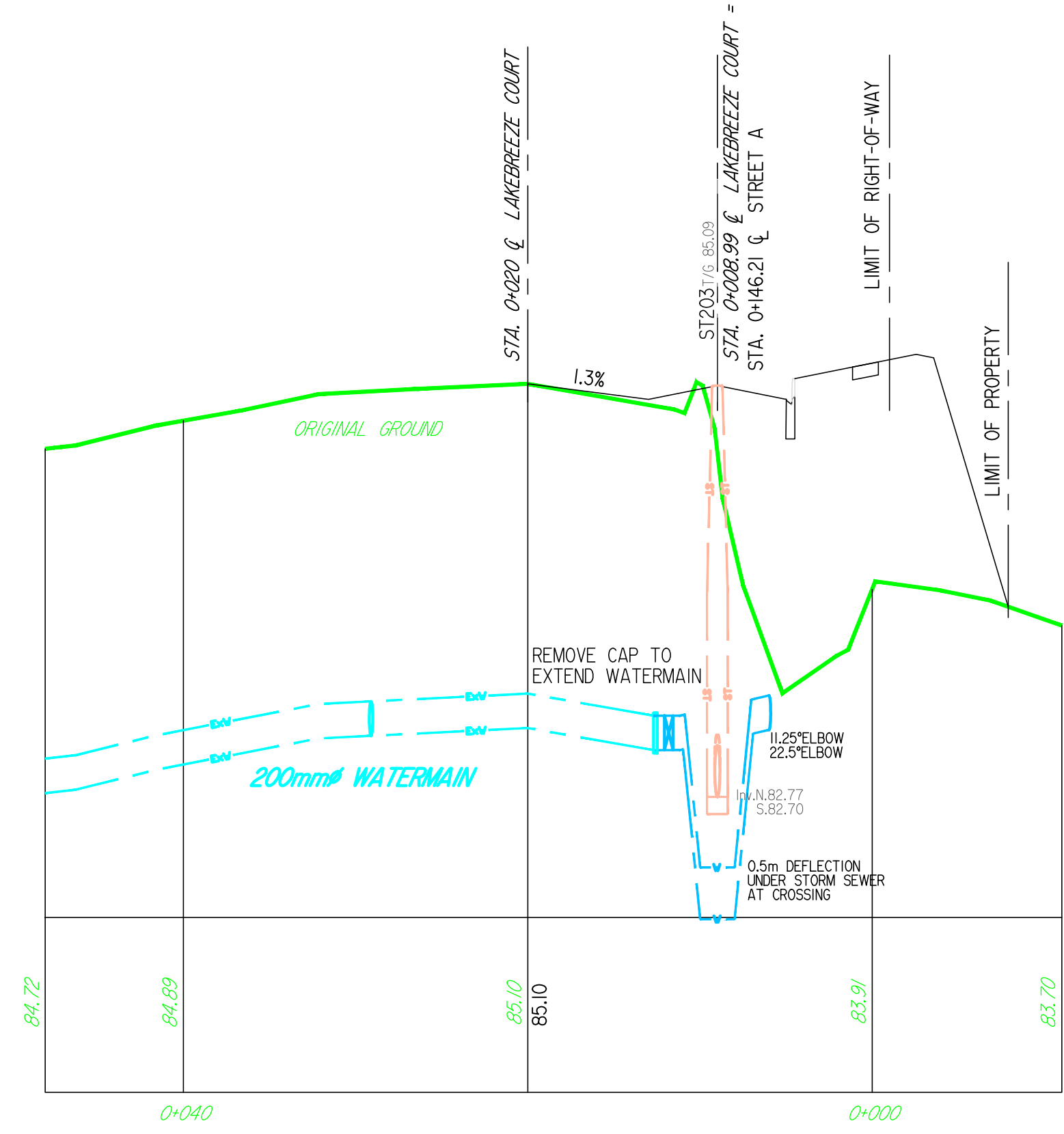


LAKEBREEZE COURT



LOCAL RESIDENTIAL ROAD
20m ROAD ALLOWANCE PSD-019 N.T.S.

NOTES

- SANITARY SYSTEMS**
- BEDDING SHALL BE PER OPSD'S 802.010, 802.013 (GRAN A MATERIAL) FOR FLEXIBLE PIPES AND OPSD'S 802.030, 802.031, 802.032, 802.033 CLASS B' BEDDING (GRAN A MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE MUNICIPALITY.
- MAXIMUM DEFLECTION FROM COMBINED LIVE AND DEAD LOADING SHALL NOT EXCEED ANY CSA, OPS OR MANUFACTURER RECOMMENDED SPECIFICATIONS.
- PVC AND CONCRETE PIPE SHALL HAVE RUBBER GASKET TYPE JOINTS AND SHALL BE CERTIFIED TO CONFORM TO ALL CURRENT CSA SPECIFICATIONS.
- MINIMUM PIPE CLASS FOR REINFORCED CONCRETE SANITARY SEWERS SHALL BE 65-D.
- MAINTENANCE HOLE TOPS (FRAMES) ARE TO BE SET TO BASE ASPHALT GRADE THEN ADJUSTED TO FINAL GRADE WHEN TOP LIFT OF ASPHALT IS PLACED.
- DROP STRUCTURES SHALL BE PER OPSD 1003.020
- SANITARY SERVICE LATERALS**
- LOCATION OF LATERAL TO BE MARKED 2m PAST PROPERTY LINE WITH A 50mmx100mm WOODEN STAKE PAINTED GREEN, EXTENDED FROM THE INVERT OF THE SERVICE LATERAL TO 300mm ABOVE GROUND LEVEL.
- PIPE TO BE GREEN PVC 50R28; RUBBER GASKET TYPE JOINTS SHALL CONFORM TO CSA (B-88.2).
- MINIMUM 100mm PVC 50R28 FOR RESIDENTIAL AND MINIMUM 150mm PVC 50R28 FOR INDUSTRIAL/COMMERCIAL
- MINIMUM DEPTH OF LATERAL AT PROPERTY LINE SHALL BE 2.3m MEASURED FROM THE SEWER OBVERT TO FINISHED GROUND ELEVATION UNLESS NOTED OTHERWISE.
- ALL CONNECTION TO NEW SANITARY MAINS SHALL BE PRE-MANUFACTURED, FABRICATED TEES CONNECTIONS TO EXISTING SANITARY SEWER SHALL BE WITH APPROVED FACTORY MADE TEES OR APPROVED SADDLES IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- MINIMUM PIPE SLOPE TO BE 1.0%, RECOMMENDED 2.0% (SEE OPSD 1006.010)
- WATER SYSTEMS**
- CONTRACTORS SHALL INFORM THE PRINCE EDWARD COUNTY WATER OPERATIONS DEPARTMENT A MINIMUM OF 48hrs IN ADVANCE OF THEIR INTENTIONS TO PERFORM WORK ON WATER INFRASTRUCTURE.
- MINIMUM COVER OVER WATERMAIN SHALL BE 1.8m. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMAIN AND SEWERS SHALL BE 2.5m, WHERE WATERMAIN CONFLICTS WITH SEWER PIPE, DEFLECT WATERMAIN HORIZONTALLY OR VERTICALLY WHILE PROVIDING A MINIMUM 0.5m CLEARANCE BETWEEN WATERMAIN AND SEWERS MAINTAIN MINIMUM DEPTH OF COVER AT ALL TIMES.
- BEDDING SHALL BE PER OPSD'S 802.010, 802.013 (GRAN A MATERIAL) FOR FLEXIBLE PIPES AND OPSD'S 802.030, 802.031, 802.032, 802.033 CLASS B' BEDDING (GRAN A MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE MUNICIPALITY. COMPACTION TESTING SHALL INCLUDE THE EMBEDMENT ENVELOPE (HALFHOLES, BEDDING, TOP OF PIPE AND COVER)
- RESTRAINING SHALL BE REQUIRED AT ALL HYDRANTS, THRUST BLOCKS SHALL BE OPSD'S 1103.010 AND 1103.020.
- TRACING WIRE SHALL BE #12 AWG HIGH STRENGTH COPPER CLAD (HS-CSS) AND SHALL BE INSTALLED ON THE TOTAL TOTAL LENGTH OF WATERMAIN AND BROUGHT UP TO EACH FIRE HYDRANT AND CONNECTED TO THE FLANGE BOLT.
- ALL SPLICES TO UTILITY CONNECTIONS AS PER MANUFACTURER'S RECOMMENDATIONS.
- SERVICE TAP SHALL BE PLACED AT MINIMUM SEPARATION OF 1.0m FROM JOINTS.
- ALL NEW CURB BOXES TO BE PLACED OUT OF DRIVEWAYS AND SIDEWALKS.
- ALL WATERMAIN PUBLIC AND PRIVATE SHALL BE BLUE IN COLOR.
- STORM SYSTEMS**
- STORM SEWERS SHALL BE PROVIDED ON ALL ROADS WITH CURB AND GUTTER. MINIMUM SIZE TO BE 300mmx600mm CATCH BASIN LATERAL SIZE AND GRADE MINIMUM: 300mm @ 1.0% FOR SINGLE, 375mm @ 0.7% FOR DOUBLE. MINIMUM DEPTH OF COVER SHALL BE 1.5m.
- ALL CONNECTIONS TO STORM SEWER MAIN, MAINTENANCE HOLES AND CATCH BASINS SHALL BE MADE AS PER OPSD'S 708.010, 708.020 AND 708.030.
- BEDDING SHALL BE PER OPSD'S 802.010, 802.013 (GRAN A MATERIAL) FOR FLEXIBLE PIPES AND OPSD'S 802.030, 802.031, 802.032, 802.033 CLASS B' BEDDING (GRAN A MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE MUNICIPALITY.
- MINIMUM PIPE CLASS FOR REINFORCED CONCRETE STORM SEWERS SHALL BE 65-D.
- MAINTENANCE HOLE TOPS (FRAMES) ARE TO BE SET TO BASE ASPHALT GRADE THEN ADJUSTED TO FINAL GRADE WHEN TOP LIFT OF ASPHALT IS PLACED.
- STORM SYSTEM PVC PIPE SHALL BE WHITE IN COLOR.

- ALL DIMENSIONS AND NOTES MUST BE VERIFIED ON JOB SITE BY CONTRACTOR.
 - ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER.
 - BOUNDARY INFORMATION BASED ON REGISTERED PLAN OF SURVEY 47R-1603 BY HUME & PICKARD JUNE 29, 1978.
 - AS PER REQUIREMENTS PRIOR TO COMMENCEMENT OF ANY WORK.
 - A ROAD OCCUPANCY PERMIT SHALL BE REQUIRED PRIOR TO COMMENCEMENT OF WORKS WITHIN THE MUNICIPAL ROW.
 - ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT PRINCE EDWARD COUNTY DRAWINGS (PSD) & ONTARIO PROVINCIAL STANDARD DRAWINGS (PSD). ORDER OF PRECEDENCE SHALL BE FIRSTLY PSD AND SECONDLY OPSD.
- | | |
|--|-----------------|
| Urban Local Road, 20m Right of Way Standard Utility Locations | Spec. PSD-019 |
| Light Duty Silt Fence Barrier | OPS.D. 219.010 |
| Concrete Sidewalk | OPS.D. 310.000 |
| 150mm of granular fill to be placed under the sidewalk | |
| Cast-in-place concrete curb | OPS.D. 310.033 |
| Concrete Sidewalk Ramps at Unsignalized Intersections | OPS.D. 310.039 |
| Concrete Sidewalk Ramps Tactile Walking Surface Indicator Component | OPS.D. 400.020 |
| Cast Iron, Square Frame w/ Square Flat Grate for Catch Basins, Herring Bone Openings | OPS.D. 401.010 |
| Cast Iron, Square Frame with Circular Closed or Open Cover for Maintenance Holes | OPS.D. 401.010 |
| Type 'A' Closed Cover | |
| Galvanized Steel, Honey Comb Grating for Ditch Inlet | OPS.D. 403.010 |
| Aluminum Safety Platform for Circular Maintenance Hole | OPS.D. 404.020 |
| Maintenance Hole Steps, Hollow | OPS.D. 405.010 |
| Do not use "Rectangular Stainless Steel" step details | |
| Concrete Barrier Curb with Standard Gutter for Flexible Pavement (Mountable) | OPS.D. 600.040 |
| Dry back of curb 75mm unless otherwise noted, with no additional drop of entrances. | |
| Concrete Barrier Curb | OPS.D. 600.010 |
| Precast Concrete Maintenance Hole, 1200mm Diameter | OPS.D. 701.010 |
| Use a Precast manhole base only | |
| Maintenance Hole Benching and Pipe Opening Details | OPS.D. 701.021 |
| Pipe 300mm or less benching is to be constructed to the invert of the pipe, ie D/max | |
| Pipe greater than 300mm benching is to be constructed to three quarter height | |
| Flow channels shall have steel trowel finish while benching to have wood float finish | |
| Benching slope shall be 8:1 towards the channel | |
| Precast Concrete Adjustment Units for Maintenance Holes, Catch Basins and Valve Chambers | OPS.D. 704.010 |
| High Density Polyethylene Adjustment Units for Maintenance Holes, Catch Basins & Valve Chambers | OPS.D. 704.011 |
| Precast Concrete Catch Basin, 600mmx600mm | OPS.D. 705.010 |
| Precast Concrete Ditch Inlet, 600mmx600mm | OPS.D. 705.030 |
| Support for Pipe at Catch Basin at Maintenance Hole | OPS.D. 708.020 |
| Catch Basin Connection for Flexible Pipe Sewer | OPS.D. 708.030 |
| ALL PIPE BEDDING TO CONFORM TO THE FOLLOWING OPSD INCLUDING FLEXIBLE PIPE: | OPS.D. 802.030 |
| Rigid Pipe Bedding, Cover and Backfill | |
| Use "CLASS B-BEDDING" detail only for all pipe bedding. | |
| The "granular bedding material" is to be "Granular A" crushed material. | |
| "Cover material" is to be sand fill. | |
| Minimum bedding depth to be 225mm | |
| For a "well trench" condition as determined by the City Engineer | |
| "Cover material" is to be sand fill. | |
| "the lower material" is to be either limestone screenings or | |
| "Granular A" crushed material. | |
| Standard Clearance Detail | Spec. PSD-007 |
| Pipe Protection Against Heavy Equipment | OPS.D. 806.010 |
| Sewer Service Connections for Flexible Main Pipe Sewer | OPS.D. 1006.020 |
| The lateral is to be GREEN 135mm PVC SDR 28 pipe or as specified. | |
| WHEREVER 5m OR LESS IS TO BE INSULATED WITH 100mm THICK 2m WIDE STYROFOAM BRAND H.I. TYPE IV INSULATION, THE INSULATION IS TO BE PLACED IN TWO 50mm LAYERS c/w STAGGERED JOINTS. | |
| ALL SANITARY, STORM SEWERS AND WATERMANS INSTALLED ON PRIVATE PROPERTY ARE TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. | |
| THE REINSTATEMENT OF ASPHALT ROADWAYS, CONCRETE SIDEWALKS AND CURBS ON THE CITY ROAD ALLOWANCE IS TO BE DONE BY THE OWNER IN ACCORDANCE WITH THE CITY SPECIFICATIONS AT THE OWNER'S EXPENSE. | |
| EXISTING SUBDRAINS ALONG THE CURB WHICH ARE DISTURBED ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION AT THE OWNERS EXPENSE. NEW SUBDRAINS ARE TO BE CONSTRUCTED AS SHOWN ON PLANS. | |
| ALL BOULEVARDS THAT DO NOT FRONT A LOT ARE TO BE FINISHED WITH 75mm TOPSOIL AND 50D FROM THE BACK OF THE CURB TO THE LIMIT OF THE ROAD ALLOWANCE. | |
| ALL EXISTING TOPSOIL, ORGANIC AND HETEROGENEOUS FILL MATERIALS TO BE REMOVED FROM BENEATH PROPOSED PAVEMENT AND SIDEWALK AREAS, EXPOSING THE NATIVE SILTY CLAY/GLACIAL TILL. | |
| EXCAVATION THROUGH FILL MATERIALS SHOULD BE BACKFILLED w/ | |
| CONCRETE SIDEWALKS TO BE 32MPa c/w 5-BX AIR ENTRAINMENT. | |
| REQUIRED PAVEMENT DESIGN EARTH: | |
| ASPHALTIC CONCRETE - HL.3 SURFACE HOT MIX | 40mm |
| - HL.3 BINDER HOT MIX | 50mm |
| BASE - GRANULAR 'A' (CRUSHED QUARRIED LIMESTONE) | 150mm |
| SUBBASE - GRANULAR 'B' (CRUSHED QUARRIED LIMESTONE) | 300mm |
| ALL IN ACCORDANCE WITH GEOTECHNICAL CONSULTANT'S RECOMMENDATIONS AND MUNICIPALITY | |
| CONSTRUCTED ON ROCK: | |
| ASPHALTIC CONCRETE - HL.3 SURFACE HOT MIX | 40mm |
| - HL.3 BINDER HOT MIX | 50mm |
| BASE - GRANULAR 'A' (CRUSHED QUARRIED LIMESTONE) | 150mm |
| SUBBASE - GRANULAR 'B' (CRUSHED QUARRIED LIMESTONE) | 150mm |
| ROCK SHATTER | 300mm |
| ALL IN ACCORDANCE WITH GEOTECHNICAL CONSULTANT'S RECOMMENDATIONS AND MUNICIPALITY | |
| DRIVEWAYS TO BE CONSTRUCTED WITH 150mm GRANULAR 'A' AND 40mm HL.3 ASPHALT WHEN PAVED | |
| EXCAVATION THROUGH FILL MATERIALS SHOULD BE BACKFILLED w/ | |
| SUITABLE BACKFILL FRESH STONES, ROOTS & OTHER FOREIGN MATTER IS TO BE PLACED AT THE BACK OF CURBS AND ALONG BOTH SIDES OF SIDEWALK WITHIN 72 hrs OF THE PLACEMENT OF CONCRETE. THIS BACKFILL IS TO BE LEVEL WITH THE TOP OF THE CURB AND SIDEWALK FOR A DISTANCE OF 0.3m TO THE EXISTING GROUND WITH A MAXIMUM SLOPE OF 5:1. | |
| BEFORE ACCEPTANCE OF THE ABOVE GROUND WORKS, THE REMAINDER OF THE BOULEVARD BETWEEN SIDEWALK AND DITCH, ROAD SHOULDER OR CURB SHALL BE BACKFILLED AND GRADED AS DRAINAGE REQUIRES. | |
| SEDIMENT CONTROL TO BE PROVIDED AT CATCHBASINS AS DIRECTED BY MUNICIPAL ENGINEER. | |
| THE OWNER CONSENTS AND AGREES NOT TO MAKE A MATERIAL CHANGE OR | |
| CAUSE A MATERIAL CHANGE TO BE MADE TO A PLAN, SPECIFICATIONS, DOCUMENT OR OTHER INFORMATION ON THE BASIS OF WHICH THESE DRAWINGS WERE APPROVED BY THE CITY, WITHOUT NOTIFYING THE CITY AND OBTAINING THE WRITTEN AUTHORIZATION OF THE MUNICIPALITY. | |
| NATIVE MATERIAL USED FOR BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY. | |
| GRANULAR MATERIAL USED FOR BACKFILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 150mm AND COMPACTED TO 98% STANDARD PROCTOR DRY DENSITY. | |
| ALL SILT CONTROL AND EROSION PROTECTION DEVICES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE MUNICIPALITY. | |
| ALL DISTURBED AREAS SHALL BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE MUNICIPALITY. | |

LAKEBREEZE COURT
80 MAPLE STREET DEVELOPMENT
MUNICIPALITY OF PRINCE EDWARD COUNTY
SZAM CAPITAL PARTNERS - OWNER

SCALE: H-1300 V-130
DESIGNED: A.H.V.
DRAWN: S.D.S.
DATE: 21-NOV-09
FILE: M:\Projects\PRINCE EDWARD\Map/80-04

REGISTERED PROFESSIONAL ENGINEER
A. H. VANDERMEER
21-NOV-09
Map/80-04

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D BY
1	APR. 26/24	MUNICIPAL COMMENTS FEB. 22/24 & ARCHITECT REVISIONS	S.D.S.	TSB
2	SEPT. 15/22	MUNICIPAL REVIEW & APPROVAL	S.D.S.	TSB
3		Code		

VAN MEEER LIMITED
LAND DEVELOPMENT • PROJECT MANAGEMENT • ENGINEERING
83 North Park Street, Belleville, ON, L8P 2T6 Tel. 613-889-0771

FILE NAME: 80 Map/80-04-02.dwg