



THE CORPORATION OF THE CITY OF CLARENCE-ROCKLAND
 1560 LAURIER STREET
 CLARENCE-ROCKLAND
 ROCKLAND, ON
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DRAWING INDEX

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ROADWAY REHABILITATION OF MARQUETTE, VAUDREUIL, LOUIS HEBERT AND LASALLE STREETS CLARENCE-ROCKLAND

CONSTRUCTION NOTES

1. UNLESS OTHERWISE NOTED ON DRAWINGS

- 1.1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED.
1.2. DRAWINGS ARE NOT TO BE SCALED.
1.3. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE SITE AND ANY DISCREPANCIES REPORTED TO THE CONTRACT ADMINISTRATOR.
1.4. ALL WORK TO BE COMPLETED TO THE ONTARIO PROVINCIAL STANDARD DRAWING (OPSD) AND ONTARIO PROVINCIAL STANDARD SPECIFICATION (OPSS)
1.5. THE WORK SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF THE APPLICABLE CSA STANDARDS AND THE ONTARIO BUILDING CODE.
1.6. THIS DRAWING IS PART OF A SET AND MUST BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, DETAILS, NOTES, AND WRITTEN SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS.
1.7. THE TERM 'CONTRACT ADMINISTRATOR' REFERS TO THE OWNERS REPRESENTATIVE OBSERVING THE INSTALLATIONS AND PERFORMANCE OF THE WORK BY THE CONTRACTOR FOR COMPLIANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS.
1.8. THE TERM 'GEOTECHNICAL CONSULTANT' REFERS TO THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE THAT IS PROVIDING GEOTECHNICAL SERVICES TO ENSURE COMPLIANT INSTALLATION AND TESTING OF MATERIALS IN ORDER TO PROVIDE DOCUMENTATION THAT WILL FORM PART OF THE CONSULTING ENGINEER'S CERTIFICATION PACKAGE TO THE TOWNSHIP.
1.9. THE CONTRACTOR MUST WORK WITH THE LATEST REVISION OF THE CONTRACT DRAWINGS. COORDINATE WITH CONSULTANT. ALL ENGINEERING DOCUMENTS SHOULD BE ISSUED TO ALL SUBS - ANY DISCREPANCY SHOULD BE REPORTED TO THE CONSULTANT.

2. GENERAL NOTES

- 2.1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES AND SERVICES. ALL UTILITIES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS.
2.2. LOCATION OF ALL EXISTING DETAIL SHOWN ON THE DRAWINGS IS APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR. CONTRACTOR SHALL LOCATE ALL UTILITIES IN FIELD AND COORDINATE WITH LOCAL AUTHORITIES AS REQUIRED.
2.3. ITEMS ENCOUNTERED BELOW GRADE NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR.
2.4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND SUBMIT A NEAT AND ACCURATE RECORD OF DRAWINGS, FOR THE OWNER'S RECORD.
2.5. THE CONTRACTOR SHALL SUPPLY ALL THE NEW MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THESE DRAWINGS.
2.6. WHERE THE CONTRACTOR REQUESTS A DEVIATION OR ALTERATION TO A STANDARD OR SPECIFICATION, THE CONTRACTOR SHALL, AT HIS EXPENSE AND PRIOR TO ANY NON-STANDARD WORK BEING PERFORMED, SEEK AND OBTAIN WRITTEN AUTHORIZATION FROM THE CITY AND PROVIDE THE AUTHORIZATION TO THE CONTRACT ADMINISTRATOR. REQUESTS MADE BY THE CONTRACTOR TO MODIFY AND/OR DELETE MUNICIPAL STANDARDS WILL NOT BE ACCEPTED DURING CONSTRUCTION.
2.7. WHERE THE CONTRACTOR WISHES A MODIFICATION OR DEVIATION FROM THE DESIGN REQUIREMENTS OF THE CONTRACT DRAWINGS OR DOCUMENTS, THE CONTRACTOR WILL SUBMIT HIS DETAILED REQUEST IN WRITING TO THE CONTRACT ADMINISTRATOR FOR APPROVAL PRIOR TO ANY MODIFIED OR DEVIATED WORK BEING PERFORMED. SHOULD THE CONTRACTOR MAKE UNAUTHORIZED CHANGES OR DEVIATIONS TO THE DESIGN REQUIREMENTS WITHOUT THE APPROVAL OF THE CONTRACT ADMINISTRATOR HE WILL BE RESPONSIBLE TO PERFORM AND/OR PAY FOR REMEDIES SPECIFIED BY THE CONTRACT ADMINISTRATOR.
2.8. THE OWNER, IN CONSULTATION WITH THE CONTRACT ADMINISTRATOR AND GEOTECHNICAL CONSULTANT, SHALL FIELD DETERMINE MATERIALS SUITABLE FOR USE WITHIN THE PROJECT OR DECLARE ANY ITEM SURPLUS OR UNWANTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL UNWANTED MATERIALS INCLUDING ALL ASSOCIATED FEES.
2.9. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY DRAINAGE MEASURES AND/OR PUMPING FOR THE DEWATERING OF THE CONSTRUCTION AREA AND TO KEEP EXCAVATION AND WORK AREAS FREE FROM WATER DURING CONSTRUCTION. CONTRACTOR IS REQUIRED TO OBTAIN MOE PERMIT TO TAKE WATER, IF WATER REMOVED IS EQUAL OR GREATER THAN 50,000 L/DAY.
2.10. THE CONTRACTOR IS RESPONSIBLE FOR ALL NEW GRADING SHOWN ON THE DRAWINGS.
2.11. THE CONTRACTOR IS RESPONSIBLE FOR VERTICAL AND HORIZONTAL CONTROL, AND FOR THE LAYOUT OF THE WORK. CONTRACTOR TO CONFIRM REFERENCE POINTS PRIOR TO COMMENCEMENT OF THE WORK.
2.12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REINSTATEMENT OF ALL AFFECTED AREAS TO A CONDITION EQUAL TO OR GREATER THAN EXISTING AND FOR THE REPAIR OF ANY DAMAGE CAUSED DURING THE PERIOD OF CONSTRUCTION.
2.13. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADJACENT ROADS IN A CLEAN AND TIDY MANNER.
2.14. WHERE SAMPLED MATERIAL FAILS TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS, THE CONTRACT ADMINISTRATOR MAY, AT HIS DISCRETION, REJECT THE MATERIAL FOR USE ON THE PROJECT. THE CONTRACTOR SHALL REMOVE THE FAILED MATERIAL AT HIS COST AND PROVIDE COMPLIANT MATERIAL.
2.15. SURPLUS MATERIALS SHALL BE STOCKPILED ON SITE AS REQUIRED BY THE CONTRACTOR. ALTERNATIVELY, THE OWNER MAY REQUIRE SURPLUS OR UNWANTED MATERIAL TO BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. ALL MATERIAL REMAINS THE PROPERTY OF THE OWNER UNTIL THE CONTRACTOR IS INSTRUCTED OTHERWISE.
2.16. REFER TO GEOTECHNICAL REPORT BY GOLDBER ASSOCIATES LTD. DATED APRIL 2016 FOR GEOTECHNICAL INFORMATION.
2.17. TOPOGRAPHICAL SURVEY COMPLETED BY JLR ON DECEMBER 23, 2015.
2.18. ONLY STAMPED APPROVED 'FOR CONSTRUCTION' DRAWINGS ARE TO BE USED FOR CONSTRUCTION.
2.19. NO FROZEN MATERIAL SHALL BE PLACED IN TRENCHES OR USED AS BACKFILL.
2.20. CONTRACTOR TO PROTECT ALL EXPOSED SURFACES AND CONTROL ALL RUNOFF DURING CONSTRUCTION.

3. SITE PREPARATION

- 3.1. CONTRACTOR TO PROVIDE ADEQUATE EROSION AND SILT MITIGATION AS NECESSARY PER APPLICABLE ONTARIO PROVINCIAL STANDARD DRAWINGS - 219 SERIES. ALL EROSION & SEDIMENT CONTROL MEASURES MUST BE IN PLACE PRIOR TO COMMENCEMENT OF WORK AND THE CONTRACTOR SHALL MAINTAIN ALL MEASURES FOR THE DURATION OF THE PROJECT. ALL EROSION AND SEDIMENT CONTROL PRODUCTS TO BE PURCHASED FROM O.C.P.
3.2. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF CONSTRUCTION AND REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
3.3. PERFORM ALL WORK IN ACCORDANCE WITH OPSS SECTION 201 AND 206.
3.4. AS PER OPSS 801 PROTECT ALL TREES AND SHRUBS OUTSIDE WORK AREA FROM DAMAGE DURING CONSTRUCTION. RESTORE ALL AREAS AFFECTED BY CONSTRUCTION TO A CONDITION GREATER TO OR EQUAL TO EXISTING.
3.5. STOCK PILES AND EQUIPMENT STORAGE LOCATIONS SHALL BE DETERMINED IN ACCORDANCE WITH THE OWNER. STORAGE AREA MUST BE CLEAN AND TIDY AT ALL TIMES AND ANY WARNINGS THAT MAY APPLY SHALL BE PROPERLY DISPLAYED.
3.6. REMOVE ALL OVERBURDEN IN CONSTRUCTION AREA TO GRADES INDICATED. THIS INCLUDES ALL SOIL, GRANULAR, ORGANICS AND ROCK COBBLES.
3.7. STAGING AND ON-SITE STORAGE AREAS FOR CONTRACTOR EQUIPMENT, PARKING AND MATERIALS SHALL BE REVIEWED AND APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

4. REMOVAL AND DISPOSITION OF CONSTRUCTION DEBRIS

- 4.1. THE CONTRACTOR SHALL CONTACT THE CITY TO CONFIRM WHICH MUNICIPAL LANDFILL IS APPROVED TO RECEIVE WASTE CONSTRUCTION MATERIALS FROM THE PROJECT AND TRANSPORT WASTE TO APPROVED MUNICIPAL LANDFILL AT NO ADDED COST TO THE OWNER OR CONSULTANT.
4.2. REMOVED/DEMOLISHED ITEMS SHALL BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE NOTED.
4.3. CONTRACTOR TO VERIFY THAT ALL DEMOLITION IS IN ACCORDANCE WITH ALL APPLICABLE CODES AND MUNICIPAL BY-LAWS.
4.4. CONTRACTOR SHALL BEAR THE RESPONSIBILITY AND COST TO REMOVE ALL CONSTRUCTION DEBRIS FROM THE SITE.
4.5. DISPOSE OF ALL CONSTRUCTION DEBRIS AT LEGALLY DESIGNATED SITES IN ACCORDANCE WITH APPLICABLE LAW.

5. CUTTING AND PATCHING

- 5.1. CONTRACTOR SHALL CUT ASPHALT WITH STRAIGHT EDGE, CLEAN EDGE OF ASPHALT CUT AND PATCH WITH DENSE REINSTATEMENT TAPE ALONG JOINT. IF EXISTING ASPHALT IS LESS THAN 80mm, STEP JOINT DEPTH SHALL BE HALF THE DEPTH OF THE EXISTING ASPHALT.
5.2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CUTTING AND REMEDIAL WORK REQUIRED TO ENSURE ALL COMPONENTS OF THE CONSTRUCTION WORK PROGRESS PROPERLY.
5.3. THE CONTRACTOR SHALL CO-ORDINATE ALL WORK TO ENSURE REMEDIAL WORK TO COMBINE ALL COMPONENTS IS KEPT TO A MINIMUM.
5.4. CUTTING AND REMEDIAL WORK SHALL BE PERFORMED BY SPECIALISTS FAMILIAR WITH THE PRODUCTS AFFECTED AND SHALL BE PERFORMED IN A MANNER TO NEITHER DAMAGE NOR ENDANGER THE WORK AND WORKERS.
5.5. NO SEPARATE PAYMENT SHALL BE MADE FOR ASPHALT SAW-CUTTING. THE COST OF ALL SAW-CUTTING ASSOCIATED WITH PULVERIZATION/GRINDING SHALL BE INCLUDED IN THE COST OF THOSE ITEMS.

6. SIGNAGE

- 6.1. PROVIDE PROFESSIONALLY LETTERED SIGNAGE OF APPROPRIATE SIZE TO DIRECT TEMPORARY VEHICLE AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION.
6.2. TRAFFIC CONTROL & SIGNAGE DURING CONSTRUCTION SHALL CONFORM TO MUNICIPAL REQUIREMENTS AND THE MOST CURRENT ONTARIO CONSTRUCTION REGULATIONS INCLUDING REG. NO. 213 UNDER OHSA.

7. STORM SEWERS

- 7.1. INSTALL STORM SEWER AS PER OPSS 410.
7.2. STORM SEWER EMBEDMENT AND BACKFILL SHALL BE AS PER OPSD 802.010 AND 802.013. THE BEDDING SHALL BE 150mm GRANULAR 'A' EARTH TRENCH OR 19mm CLEAR STONE ROCK TRENCH. NO FROST TREATMENT IS REQUIRED FOR SEWER INSTALLED OUTSIDE OF THE ROADWAY.
7.3. THE COST TO BACKFILL AND GRADE THE GRASS SWALES ABOVE THE PROPOSED STORM SEWER PIPE SHALL BE INCLUDED WITHIN THE COST OF THE SEWER INSTALLATION.
7.4. FLEXIBLE PIPE EMBEDMENT AND BACKFILL MATERIAL TO BE COMPACTED TO A DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMD).
7.5. ALL HDPE PIPE TO BE 750mm @ BOSS 2000 OR APPROVED EQUIVALENT.

8. CONSTRUCTION OF THE PAVEMENT

- 8.1. PAVEMENT CONSTRUCTION AS PER OPSD 310, 314 SHALL BE COMPLIANT WITH THE ROAD SECTIONS ON THIS PAGE AND THE GEOTECHNICAL REPORT BY GOLDBER ASSOCIATES LTD. DATED APRIL 2016. NO FLY ROCK IS PERMITTED.
8.2. ROADWAY REINSTATEMENT:
ASPHALT (SUPERPAVE 12.5, PG 58-34) 70mm (SINGLE LIFT)
GRANULAR 'A' BASE 175mm (MAX)
8.2.1. ROAD RECONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON DRAWING D1. THE RECONSTRUCTED ROAD SHALL HAVE A MINIMUM GRANULAR 'A' DEPTH OF 50mm.
8.2.2. EXISTING ROADWAY ASPHALT AND GRANULAR BASE TO BE PROCESSED IN PLACE TO A DEPTH OF 200mm FROM THE EXISTING ASPHALT SURFACE. ROAD RECLAMATION TO A DEPTH OF 200mm TO BE COMPLETED IN ACCORDANCE WITH OPSS 330.
8.2.3. COMPACTION OF BASE AND SUBBASE MATERIALS SHALL BE IN ACCORDANCE WITH OPSS MUNI 501, SECTION 501.08.02 METHOD A, AND SHALL BE COMPACTED TO 100% SPMD. CONTRACTOR TO COORDINATE GEOTECHNICAL CONSULTANT REVIEW PRIOR TO BACKFILLING.
8.2.4. COMPACTION OF ASPHALT LAYERS SHALL BE IN ACCORDANCE WITH TABLE 10 OF OPSS 310. CONTRACTOR TO COORDINATE GEOTECHNICAL CONSULTANT REVIEW PRIOR TO BACKFILLING.
8.2.5. EXPOSED SUBGRADE TO BE PROPERLY PROOF ROLLED AND APPROVED BY GEOTECHNICAL CONSULTANT. ANY CRITICAL SOIL WITH ELASTICITY, ABSORBENCY TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
8.2.6. COMPACTION NOTES ABOVE ARE FOR THE CIVIL SITE WORKS ONLY.
8.2.7. ROADWAY GRANULAR SHOULDER SHALL BE REINSTATED AND ROUNDED AS SHOWN ON THE DETAIL PROVIDED ON DRAWING D1. REINSTATED GRANULAR SHOULDER TO MATCH THE FINAL EDGE OF PAVEMENT ELEVATION.
8.3. DRIVEWAY REINSTATEMENT:
ASPHALT (SUPERPAVE 12.5, PG 58-34) 50mm (SINGLE LIFT)
GRANULAR 'A' BASE 150mm (MAX)
8.3.1. EXISTING DRIVEWAY ASPHALT TO BE REMOVED VIA SUITABLE GRINDING EQUIPMENT IN ACCORDANCE WITH OPSS 510 FROM THE EDGE OF THE ASPHALT ROADWAY UP TO THE PROPERTY LINE. DRIVEWAY ASPHALT TO BE CUT TO PRODUCE A STRAIGHT, CLEAN VERTICAL FACE AT THE PROPERTY LINE.
8.3.2. EXISTING GRANULAR ACCESS IDENTIFIED ON DRAWINGS R1 AND R2 MAY REQUIRE ADDITIONAL GRANULAR MATERIAL TO ACHIEVE THE PROPOSED GRADES.
8.3.3. LIMITS OF REINSTATED DRIVEWAY SHALL BE THE SAME AS THE EXISTING LIMITS.
8.4. ROADWAY RESURFACING - CUL-DE-SAC:
ASPHALT (SUPERPAVE 12.5, PG 58-34) 70mm (MIN.) (SINGLE LIFT)
8.4.1. EXISTING ASPHALT SURFACE TO REMAIN IN PLACE. ASPHALT OVERLAY TO BE INSTALLED OVER EXISTING CUL-DE-SAC IN ACCORDANCE WITH OPSS 310, TO A MINIMUM ASPHALT DEPTH OF 70mm.
8.4.2. EXISTING ASPHALT AROUND THE CIRCUMFERENCE OF THE CUL-DE-SAC SHALL BE MILLED TO PROVIDE A SMOOTH TRANSITION FROM THE NEW SURFACE TO EXISTING DRIVEWAYS. EXISTING DRIVEWAYS THAT CONNECT WITH THE CUL-DE-SAC SHALL REMAIN UNDISTURBED. CONTRACTOR TO SURVEY AND PROVIDE EXISTING ASPHALT INFORMATION AROUND THE CUL-DE-SAC.
8.5. GRANULAR DRIVEWAY REINSTATEMENT:
8.5.1. REINSTATE GRANULAR DRIVEWAYS TO ELEVATIONS SHOWN ON DRAWINGS P1 AND P2. GRANULAR REINSTATEMENT SHALL TRANSITION SMOOTHLY BETWEEN NEW ASPHALT SURFACE AND THE EXISTING DRIVEWAY SURFACE AT THE PROPERTY LINE.
8.6. NO SEPARATE PAYMENT SHALL BE MADE FOR ASPHALT SAW-CUTTING. THE COST OF ALL SAW-CUTTING ASSOCIATED WITH PULVERIZATION/GRINDING SHALL BE INCLUDED IN THE COST OF THOSE ITEMS.
8.7. AS PART OF THE SUBGRADE PREPARATION, PAVEMENT AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND OTHER OBJECTIONABLE MATERIAL SUCH AS ORGANIC CONTAMINATED FILL, ETC. THE SUBGRADE SHALL BE PROPERLY SHAPED, CROWNED AND PROOF ROLLED. ANY SOFT OR SPONGY AREAS EXCAVATED AND REPLACED WITH APPROVED MATERIAL. TOPSOIL TO BE STORED AT APPROVED LOCATION ON SITE.
8.8. THE MOST SEVERE LOADING CONDITIONS ON THE SUBSOIL COULD OCCUR DURING CONSTRUCTION DUE TO TRUCK TRAFFIC ETC. CONSEQUENTLY SPECIAL PROVISIONS MAY BE REQUIRED BY THE CONTRACTOR SUCH AS ADDITIONAL SUBBASE AND/OR RESTRICTED LOADINGS OR PROVISIONS FOR TEMPORARY ROADS, ETC. ESPECIALLY IF CONSTRUCTION IS CARRIED OUT DURING WET WEATHER CONDITIONS.
8.9. THE GEOTECHNICAL CONSULTANT SHALL FIELD DETERMINE MATERIALS SUITABLE FOR USE WITHIN THE PROJECT OR DECLARE ANY ITEM SURPLUS OR UNWANTED.
8.10. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED GEOTECHNICAL FIELD TESTING AND PROVIDE COPY TO THE CONTRACT ADMINISTRATOR FOR REVIEW. OWNER TO PAY FOR TESTING.
8.11. WHEN CONTRACTOR HAS INDICATED THAT MATERIAL IS READY TO BE TESTED FOR COMPACTION, AND THE SUBSEQUENT TESTING BY THE GEOTECHNICAL CONSULTANT INDICATES THE COMPACTION OF THE MATERIAL DOES NOT MEET THE MINIMUM REQUIREMENTS, THE CONTRACTOR SHALL BEAR THE COST OF ADDITIONAL COMPACTION EFFORTS AND FIELD TESTS REQUIRED AS A RESULT.
8.12. ANY MATERIAL NOT MEETING GEOTECHNICAL OR MUNICIPAL SPECIFICATIONS WILL BE REMOVED BY THE CONTRACTOR AND REPLACED WITH APPROVED MATERIAL AT THEIR EXPENSE.
8.13. IF EXCAVATION IS REQUIRED BEYOND THE DEPTHS NOTED ON THE CONTRACT DRAWINGS THE CONTRACTOR SHALL NOTIFY THE CONTRACT ADMINISTRATOR IN WRITING PRIOR TO EXCAVATING ADDITIONAL DEPTHS. IF EXCAVATION CONTINUES WITHOUT AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR IN WRITING THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH ADDITIONAL EXCAVATION AND BACKFILL.

9. RESTORATION OF MARQUETTE STREET VAUDREUIL STREET, LASALLE STREET AND LOUIS HEBERT STREET

- 9.1. ALL DRIVEWAYS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER. ASPHALT THICKNESS TO BE REINSTATED TO EXISTING THICKNESS WITH A MINIMUM THICKNESS OF 50mm.
9.2. CONTRACTOR TO MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES AND IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SIGNS, BARRICADES ETC. AS PER MINISTRY OF TRANSPORTATION STANDARDS.
9.3. ALL TRAFFIC CONTROL SIGNAGE SHALL BE INSTALLED AND MAINTAINED AS PER BOOK 7 OF THE ONTARIO TRAFFIC MANUAL.
9.4. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY FLAG PERSONS, SIGNS AND BARRICADES NECESSARY TO DIRECT AND PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC WITHIN THE PROJECT LIMITS AND SHALL CONDUCT OPERATIONS TO CAUSE THE LEAST POSSIBLE INTERRUPTION TO TRAVELLING PUBLIC AND RESIDENTS.
9.5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE ROADWAY IN A NEAT AND TIDY MANNER. THE CONSULTANT OR OWNER CAN REQUEST CLEANING OF VAUDREUIL STREET, MARQUETTE STREET, LOUIS HEBERT STREET AND LASALLE STREET IN AREA OF WORK AT ANY TIME AT NO EXTRA COST TO THE CONTRACT, UP TO A LIMIT OF THREE ADDITIONAL PASSES.
9.6. FLAGGING FOR TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CORRECT METHODS FOR TRAFFIC CONTROL ISSUED BY THE CONSTRUCTION SAFETY ASSOCIATIONS OF ONTARIO. TWO-WAY TRAFFIC REQUIRED AT ALL TIMES.

10. MANUFACTURER'S INSTRUCTIONS

- 10.1. UNLESS OTHERWISE SPECIFIED, COMPLY WITH MANUFACTURER'S TEST PRINTED INSTRUCTIONS FOR MATERIALS AND INSTALLATION METHODS.
10.2. NOTIFY THE CONTRACT ADMINISTRATOR IN WRITING OF ANY CONFLICTS BETWEEN THESE SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. THE CONTRACT ADMINISTRATORS WILL DESIGNATE WHICH DOCUMENT IS TO BE FOLLOWED.

11. INSPECTION AND TESTING

- 11.1. A GEOTECHNICAL CONSULTANT WILL BE RETAINED BY THE OWNER FOR MATERIAL TESTING.
11.2. COOPERATE AND COORDINATE WITH AND PROVIDE ALL NECESSARY ASSISTANCE AND MATERIAL SAMPLES TO GEOTECHNICAL CONSULTANT.
11.3. PROVIDE 48 HOURS NOTICE IN ORDER THAT THE CONTRACT ADMINISTRATOR, AT HIS DISCRETION, MAY INSPECT OR INITIATE MATERIAL TESTING OF ALL PERMANENT CONSTRUCTION PRIOR TO COVERING AND SPECIFICALLY INCLUDING THE FOLLOWING ITEMS:
- ALL BURIED SERVICES
- GRADATION ANALYSIS FOR ALL IMPORTED MATERIAL
- COMPACTION TEST REPORTS
- FOUNDATION BEARING SURFACE (NOTIFY GEOTECHNICAL CONSULTANT)
- BACKFILL AND COMPACTION (NOTIFY GEOTECHNICAL CONSULTANT)
- ALL OTHER ITEMS SPECIFICALLY IDENTIFIED ELSEWHERE IN THIS DOCUMENT
- GRANULAR MATERIAL SHALL BE AS PER GEOTECHNICAL SPECIFICATIONS. CONTRACTOR TO SUBMIT SOURCE OF GRANULAR MATERIALS OR PROVIDE TESTING AND CONFIRMATION THAT THE MATERIAL MEETS THE MUNICIPAL GRADATION REQUIREMENTS FOR AGGREGATES. SHOULD THE SAMPLED MATERIAL FAIL TO MEET THE GRADATION REQUIREMENTS, THE CONTRACTOR SHALL BEAR THE COST OF REMOVING THE FAILED MATERIAL AND PROVIDE COMPLIANT MATERIAL IN ITS PLACE.
- GEOTECHNICAL CONSULTANT TO SUBMIT COPIES OF ALL TEST RESULTS DIRECTLY TO THE CONTRACT ADMINISTRATOR.

17. SUBMITTALS

- 17.1. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLAN IN ACCORDANCE WITH BOOK 7 OF THE ONTARIO HIGHWAY TRAFFIC MANUAL TO THE CONTRACT ADMINISTRATOR FOR APPROVAL PRIOR TO ANY WORK COMMENCING ON MUNICIPAL ROADS.
17.2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO FABRICATION OF ANY PIPES.
17.3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL SUBRAIN FITTINGS, COUPLINGS, BENDS, AND CLEAN-OUTS REQUIRED FOR APPROVAL PRIOR TO CONSTRUCTION.

18. RIP-RAP TREATMENT

- 18.1. MATERIAL TO BE R-10 AS PER OPSS, MUNI 1004 TABLE 8.
18.2. R-10, RIP-RAP SHALL BE INSTALLED AS PER OPSS 810.010.

19. GEOTEXTILE

- 19.1. GEOTEXTILE SHALL BE PLACED UNDER RIP-RAP AS PER OPSS 511.
19.2. GEOTEXTILE SHALL BE 270K OR APPROVED EQUAL.

ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD)

- 200 - GRADING
200.010 - EARTH/SHALE GRADING
204.010 - BOULDER TREATMENT
219.100 - STRAW BALE FLOW CHECK DAM
300 - SIDE ENTRANCES
301.020 - RURAL ENTRANCES TO ROADS IN EARTH CUT
700 - CATCH BASINS AND MAINTENANCE HOLES
708.020 - SUPPORT FOR PIPE AT CATCH BASIN OR MAINTENANCE HOLE
800 - CULVERTS AND DRAINS
802.010 - FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION
810.010 - RIP-RAP TREATMENT FOR SEWER AND CULVERT OUTLETS

ADDITIONAL OPSS'S MAY APPLY - CONTRACTOR SHALL USE THE CURRENT VERSION OF ALL OPSS'S

ONTARIO PROVINCIAL STANDARD SPECIFICATION (OPSS)

- DIVISION 1 - GENERAL SPECIFICATIONS
102 - WEIGHING OF MATERIALS
180 - MANAGEMENT OF EXCESS MATERIALS
DIVISION 2 - GENERAL GRADING
206 - GRADING
DIVISION 3 - PAVEMENT (FLEXIBLE AND RIGID)
310 - HOT MIX ASPHALT
314 - UNTREATED GRANULAR, SUBBASE, BASE, SURFACE SHOULDER, AND STOCKPIILING
330 - RECLAMATION OF PAVEMENT AND UNDERLYING GRANULAR
DIVISION 4 - DRAINAGE AND STORM SEWERS
401 - TRENCHING, BACKFILLING, AND COMPACTION
405 - PIPE SUBDRAINS
410 - PIPE SEWER INSTALLATION IN OPEN CUT
491 - PRESERVATION, PROTECTION, AND RECONSTRUCTION OF EXISTING FACILITIES, UTILITIES AND ASSOCIATED STRUCTURES
492 - SITE RESTORATION FOLLOWING INSTALLATION OF PIPELINES, UTILITIES, AND ASSOCIATED STRUCTURES.
DIVISION 5 - MISCELLANEOUS
501 - COMPACTION
510 - REMOVAL
511 - RIP-RAP, ROCK PROTECTION, AND GRANULAR SHEETING
517 - DEWATERING OF PIPELINE, UTILITY, AND ASSOCIATED STRUCTURE EXCAVATION
518 - CONTROL OF WATER FROM DEWATERING OPERATIONS
DIVISION 7 - TRAFFIC SAFETY
706 - TRAFFIC CONTROL SIGNING

DIVISION 8 - ENVIRONMENTAL AND LANDSCAPE

- 801 - THE PROTECTION OF TREES
802 - TOPSOIL
804 - SEED AND COVER
805 - TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES

DIVISION 10 - AGGREGATES

- 1001 - AGGREGATES - GENERAL
1003 - AGGREGATES - HOT MIX ASPHALT
1004 - MATERIAL SPECIFICATION FOR AGGREGATES - MISCELLANEOUS
1010 - AGGREGATES - BASE, SUBBASE, SELECT SUBGRADE, AND BACKFILL MATERIAL

DIVISION 11 - BITUMENS

- 1150 - HOT MIX ASPHALT

DIVISION 18 - PIPES AND ASSOCIATED DRAINAGE ITEMS

- 1840 - MATERIAL SPECIFICATION FOR NON-PRESSURE POLYETHYLENE PLASTIC PIPE PRODUCTS
1860 - MATERIAL SPECIFICATION GEOTEXTILES

ADDITIONAL OPSS MAY APPLY - CONTRACTOR SHALL USE THE CURRENT VERSION OF ALL OPSS

JOB BENCHMARK PER COSINE REPORT

STATION: 01019809580
UTM-18 EASTING: E480647.326
UTM-18 NORTHING: N5045573.949
ORTHOMETRIC ELEV: 77.175
LOCATION: STANDARD IRON BAR WITH BRASS CAP, 20mm BELOW GRADE. THE MONUMENT IS LOCATED ON THE WEST SIDE OF COUNTY ROAD NO. 8 APPROXIMATELY 440m NORTH OF THE INTERSECTION OF HIGHWAY NO. 17 AND COUNTY ROAD NO. 8

Table with 2 columns: No., ISSUE / REVISION, and DDMMYY. Row 1: 2, ISSUED FOR TENDER, 28/02/17. Row 2: 1, ISSUED FOR 90% SUBMISSION, 10/02/17.

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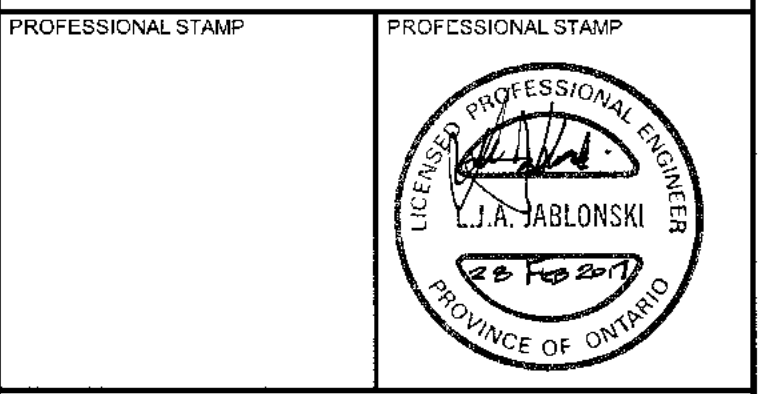
VERIFY SHEET SIZE AND SCALES BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 0 25mm

CLIENT:
UTM-18 EASTING: E480647.326
UTM-18 NORTHING: N5045573.949
ORTHOMETRIC ELEV: 77.175
LOCATION: STANDARD IRON BAR WITH BRASS CAP, 20mm BELOW GRADE. THE MONUMENT IS LOCATED ON THE WEST SIDE OF COUNTY ROAD NO. 8 APPROXIMATELY 440m NORTH OF THE INTERSECTION OF HIGHWAY NO. 17 AND COUNTY ROAD NO. 8



CONSULTANT:
CONSULTANT:



PROJECT:
ROADWAY REHABILITATION OF MARQUETTE, VAUDREUIL, LOUIS HEBERT AND LASALLE STREETS
CLARENCE-ROCKLAND

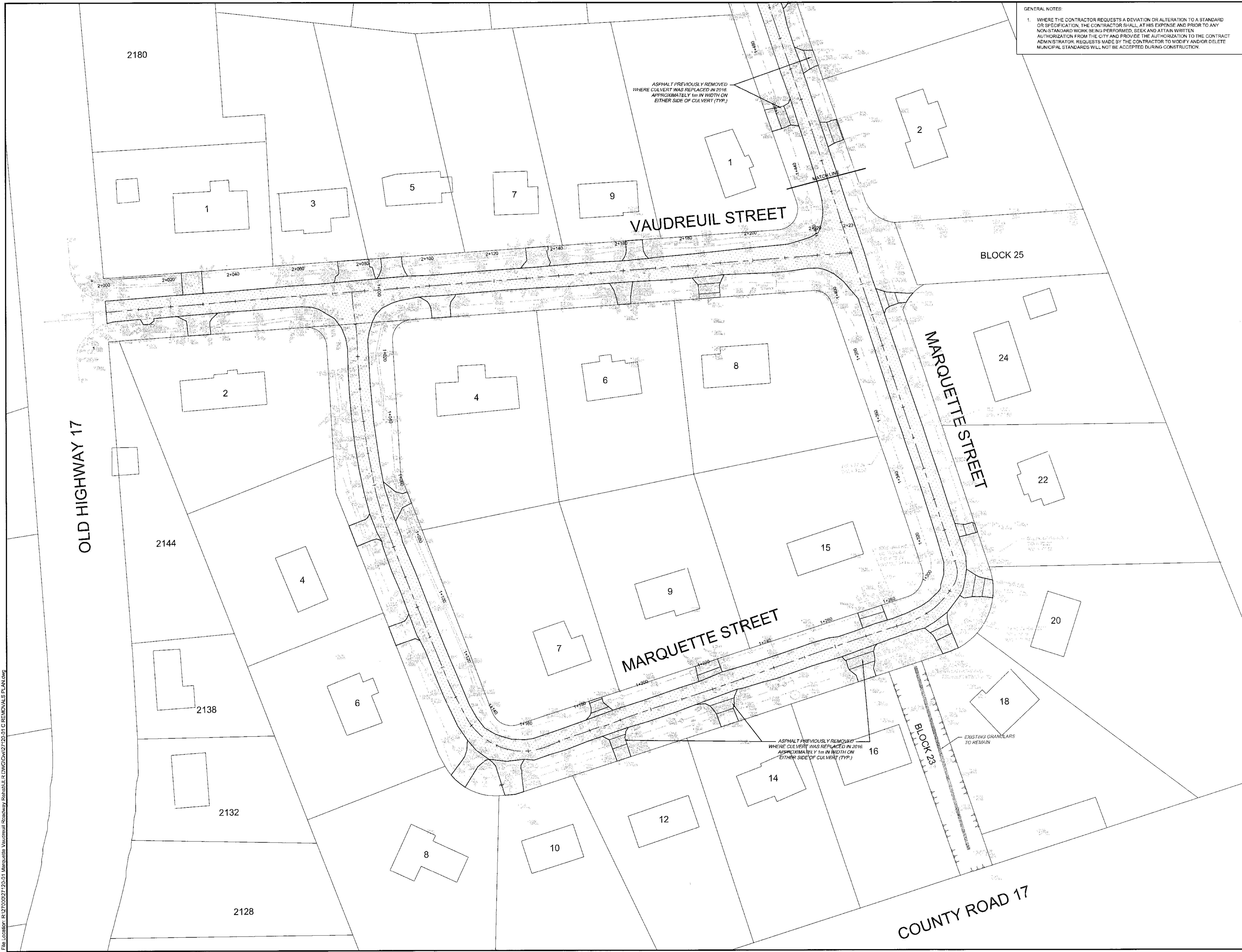
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GENERAL NOTES:
 1. WHERE THE CONTRACTOR REQUESTS A DEVIATION OR ALTERATION TO A STANDARD OR SPECIFICATION, THE CONTRACTOR SHALL, AT HIS EXPENSE AND PRIOR TO ANY NON-STANDARD WORK BEING PERFORMED, SEEK AND OBTAIN WRITTEN AUTHORIZATION FROM THE CITY AND PROVIDE THE AUTHORIZATION TO THE CONTRACT ADMINISTRATOR. REQUESTS MADE BY THE CONTRACTOR TO MODIFY AND/OR DELETE MUNICIPAL STANDARDS WILL NOT BE ACCEPTED DURING CONSTRUCTION.

KEY PLAN

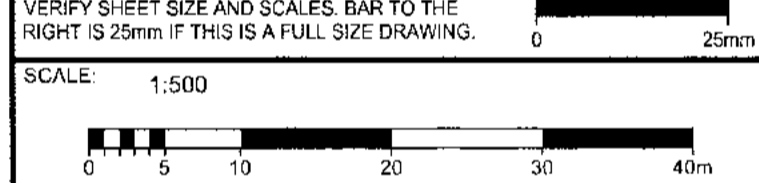
LEGEND

- PULVERIZE EXISTING ASPHALT ROADWAY
- REMOVE EXISTING ASPHALT FROM DRIVEWAYS
- APPROXIMATE HOUSE LOCATION AND LOT NUMBER



2	ISSUED FOR TENDER	28/02/17
1	ISSUED FOR 90% SUBMISSION	10/02/17
No	ISSUE / REVISION	DDMMYY

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Clarence Rockland

CONSULTANT:

J.L. Richards
 ENGINEERS - ARCHITECTS - PLANNERS
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CONSULTANT:

PROJECT NORTH

PROFESSIONAL STAMP

PROJECT:
ROADWAY REHABILITATION OF MARQUETTE, VAUDREUIL, LOUIS HEBERT AND LASALLE STREETS
 CLARENCE-ROCKLAND

DRAWING:
REMOVALS

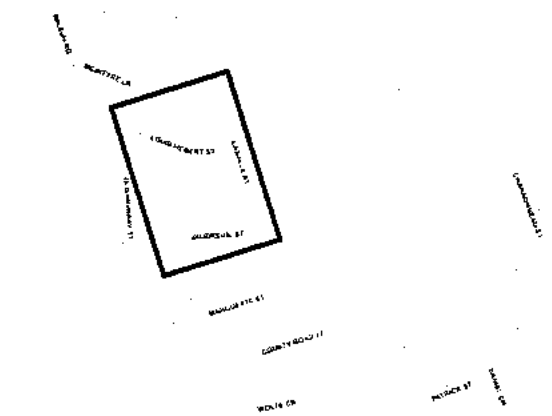
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DRAWN: CJM	R1
CHECKED: LJ	
JLR #: 27120-01	

File Location: R:\2702027\20-01 Marquette, Vaudreuil, Louis Hebert, Lasalle, DNV\20-01 C REMOVALS PLAN.dwg


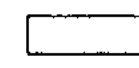
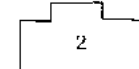
PLOT DATE: February 28, 2017 1:22:21 PM

GENERAL NOTES:
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KEY PLAN



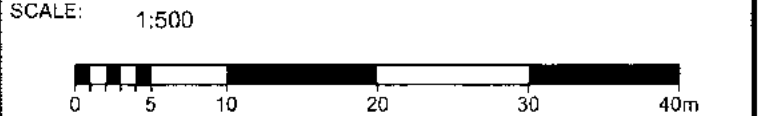
LEGEND

-  PULVERIZE EXISTING ASPHALT ROADWAY
-  REMOVE EXISTING ASPHALT FROM DRIVEWAYS
-  APPROXIMATE HOUSE LOCATION AND LOT NUMBER

No.	ISSUE / REVISION	DATE
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	ISSUE / REVISION	DD/MM/YY

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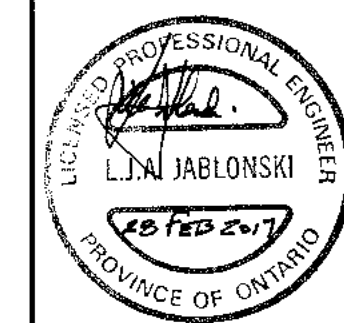
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PROJECT

ROADWAY REHABILITATION OF MARQUETTE, VAUDREUIL, LOUIS HEBERT AND LASALLE STREETS

CLARENCE-ROCKLAND

DRAWING

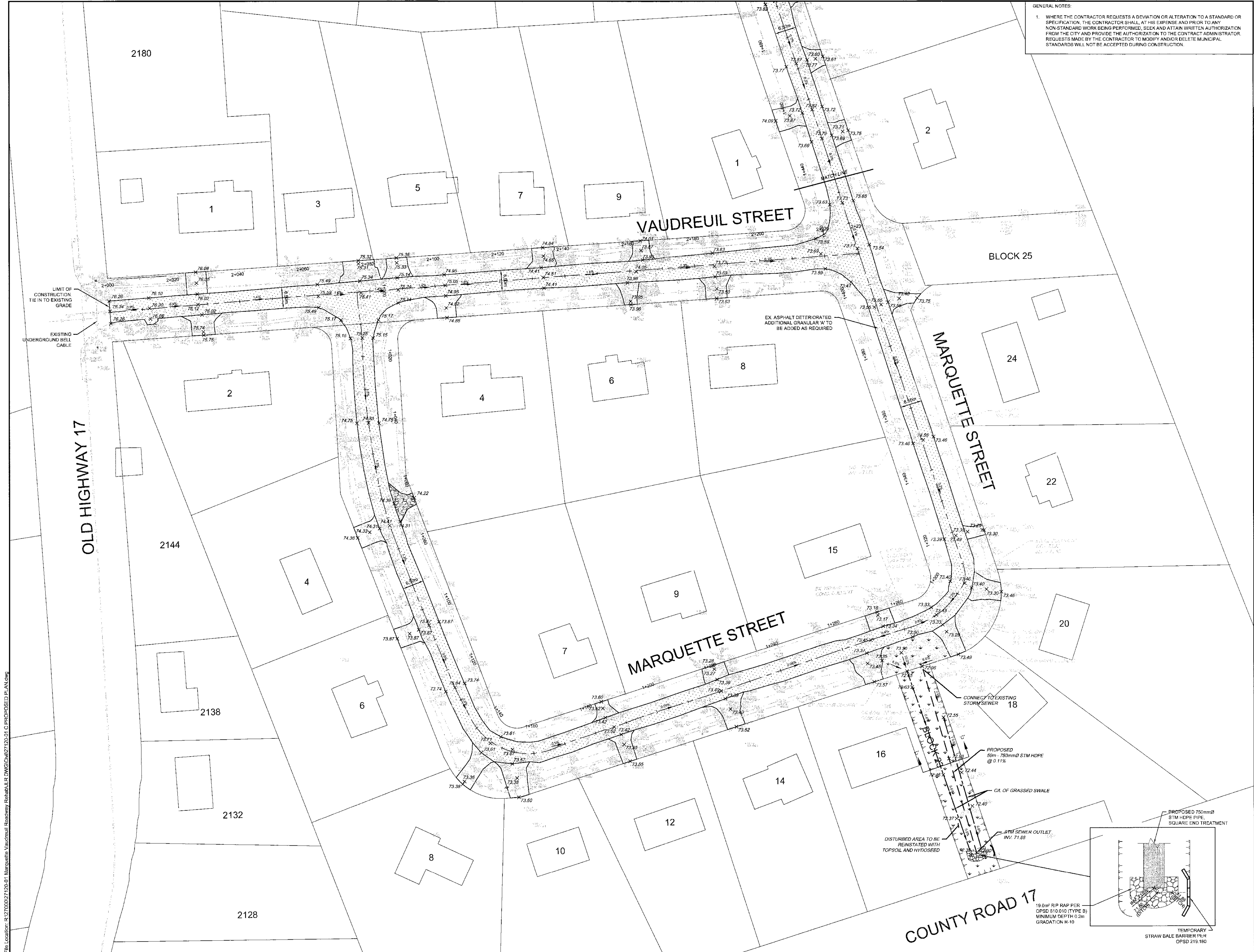
REMOVALS

DESIGN: CS	DRAWING #: R2
DRAWN: C.J.M	
CHECKED: L.J.	
JLR #: 27120-01	



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PLOT DATE: February 28, 2017 11:55:35 PM



GENERAL NOTES:
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KEY PLAN

LEGEND

- 92.52 — PROPOSED ELEVATION
- [Symbol] PROPOSED ROADWAY REINSTATEMENT
- [Symbol] PROPOSED DRIVEWAY REINSTATEMENT
- [Symbol] PROPOSED GRANULAR ACCESS REINSTATEMENT
- [Symbol] PROPOSED 100mm TOPSOIL AND HYDROSEED REINSTATEMENT
- [Symbol] TERRACING
- [Symbol] APPROXIMATE HOUSE LOCATION AND LOT NUMBER
- [Symbol] EXISTING OVERHEAD UTILITIES (BELL, CABLE, HYDRO)
- [Symbol] EXISTING UNDERGROUND BELL

2	ISSUED FOR TENDER	28/02/17
1	ISSUED FOR 90% SUBMISSION	10/02/17
No.	ISSUE / REVISION	DATE/REV

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PROJECT:

ROADWAY REHABILITATION OF MARQUETTE, VAUDREUIL, LOUIS HEBERT AND LASALLE STREETS

CLARENCE-ROCKLAND

DRAWING:

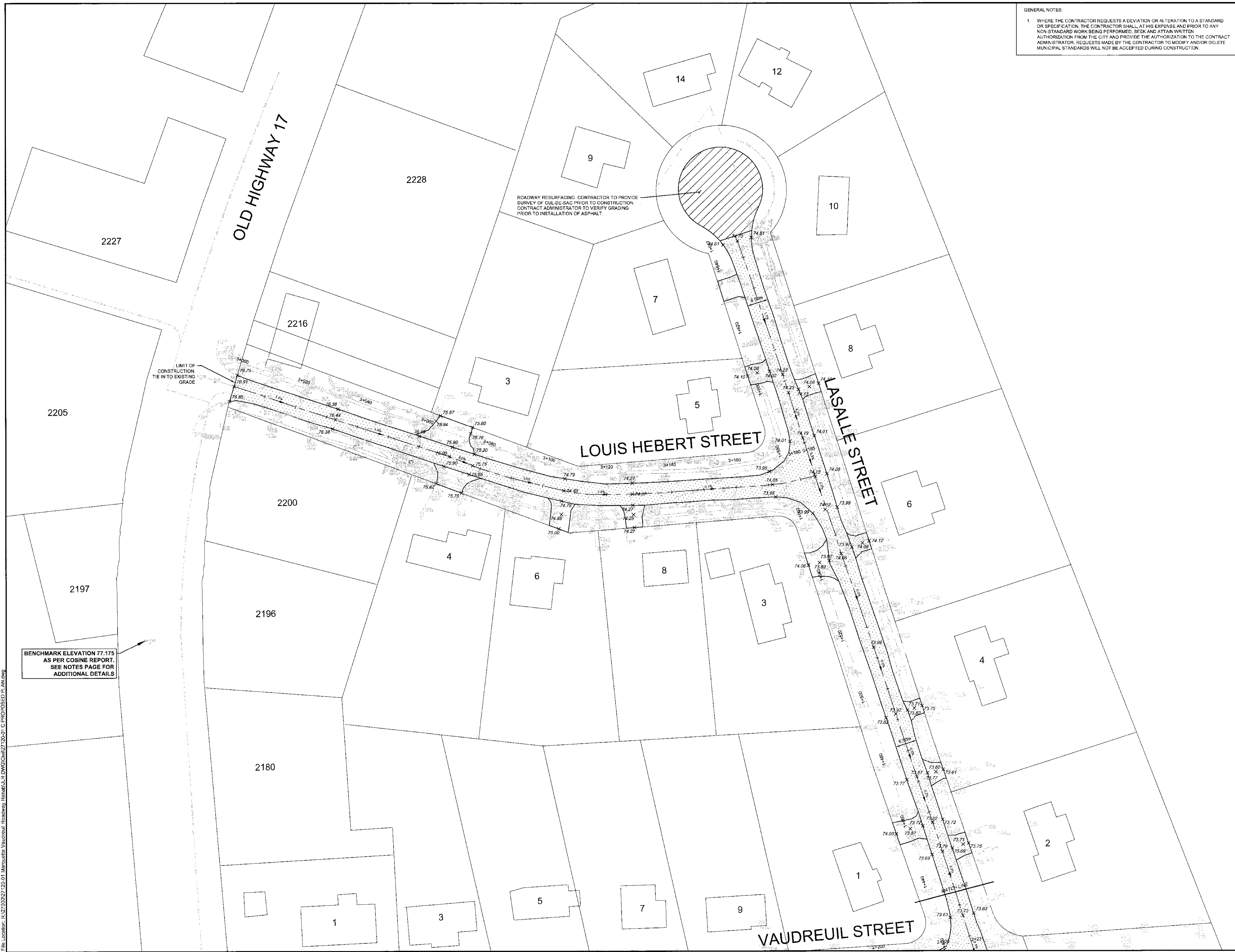
PROPOSED

DESIGN: CS	DRAWING #
DRAWN: CJM	P1
CHECKED: LJ	
JLR # 27120-01	

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PLOT DATE February 25, 2017 1:26:27 PM

GENERAL NOTES:
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KEY PLAN

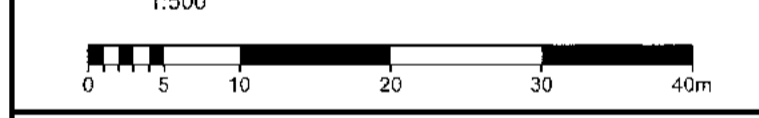
LEGEND

- 92.52 → PROPOSED ELEVATION
- [Pattern] PROPOSED ROADWAY REINSTATEMENT
- [Pattern] PROPOSED DRIVEWAY REINSTATEMENT
- [Pattern] PROPOSED ROADWAY RESURFACING
- [Pattern] TERRACING
- [Symbol] APPROXIMATE HOUSE LOCATION AND LOT NUMBER
- [Symbol] EXISTING OVERHEAD UTILITIES (BELL, CABLE, HYDRO)
- [Symbol] EXISTING UNDERGROUND BELL

2	ISSUED FOR TENDER	28/02/17
1	ISSUED FOR 90% SUBMISSION	10/02/17
No.	ISSUE / REVISION	CDMMYY

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PROJECT:
ROADWAY REHABILITATION OF MARQUETTE, VAUDREUIL, LOUIS HEBERT AND LASALLE STREETS
 CLARENCE-ROCKLAND

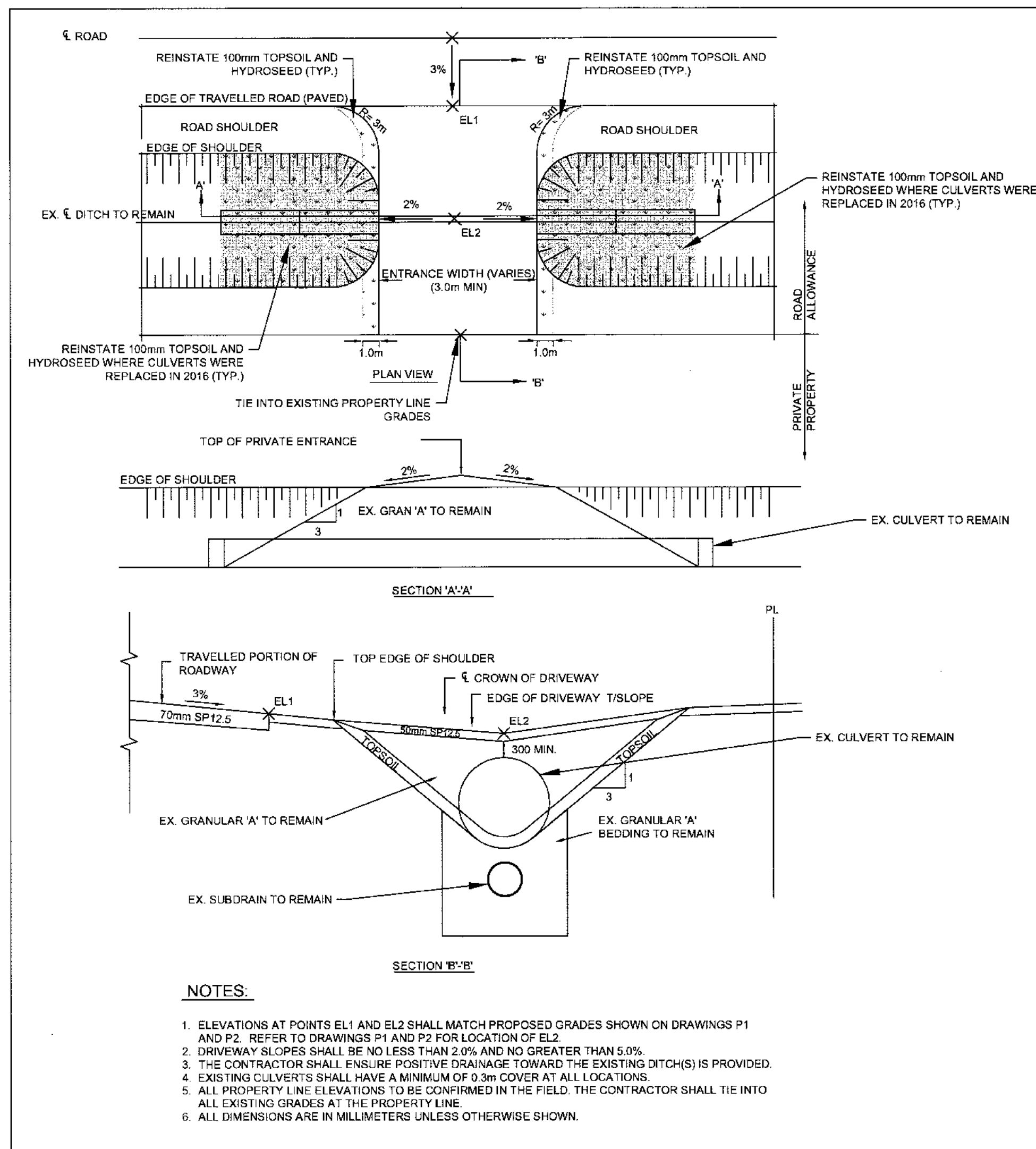
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PROPOSED

DESIGN: CS	DRAWING #:
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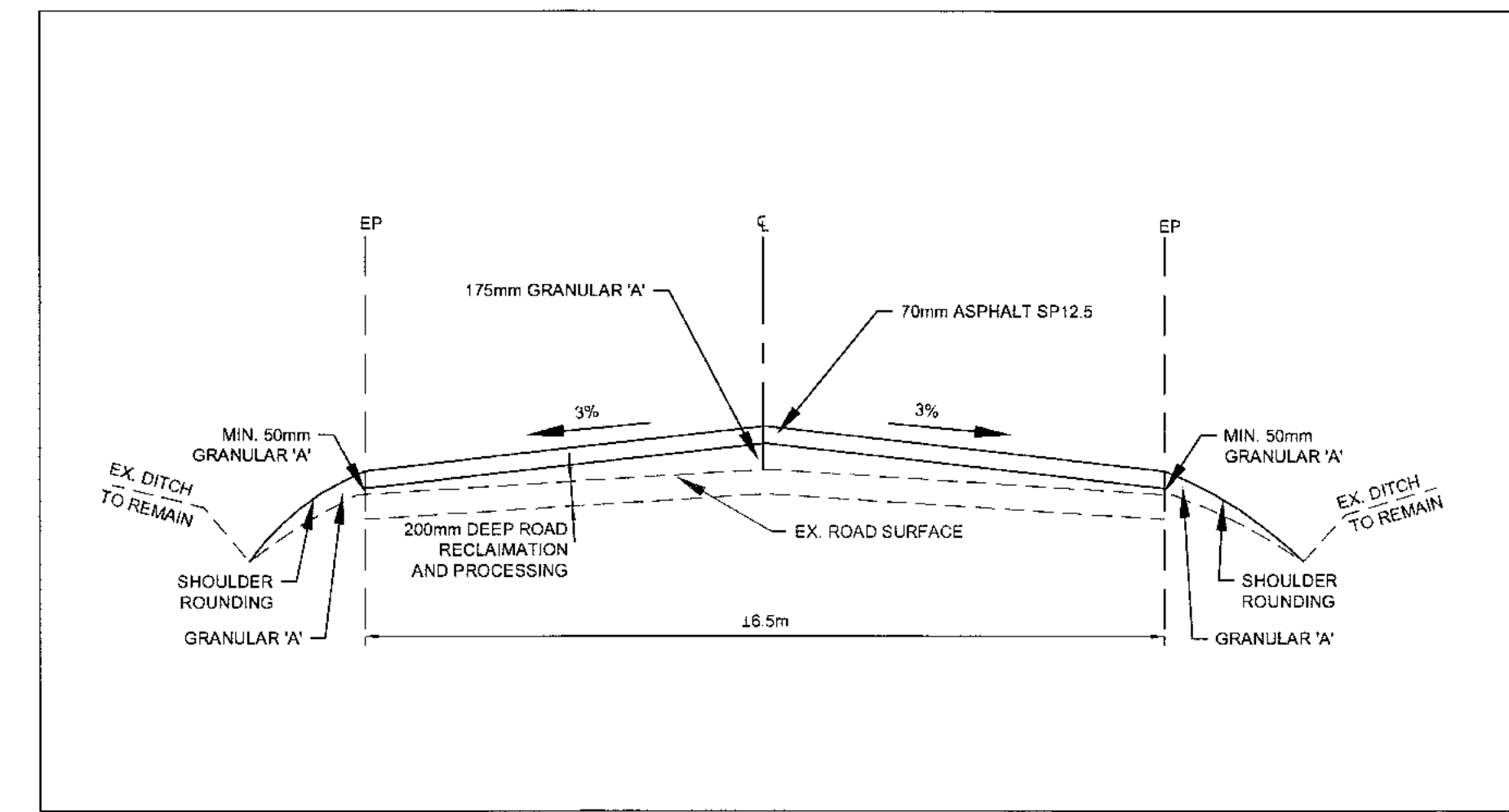
BENCHMARK ELEVATION 77.175 AS PER COSINE REPORT. SEE NOTES PAGE FOR ADDITIONAL DETAILS

PLOT DATE: February 28, 2017 12:38 PM



PRIVATE ENTRANCE DETAIL - RURAL

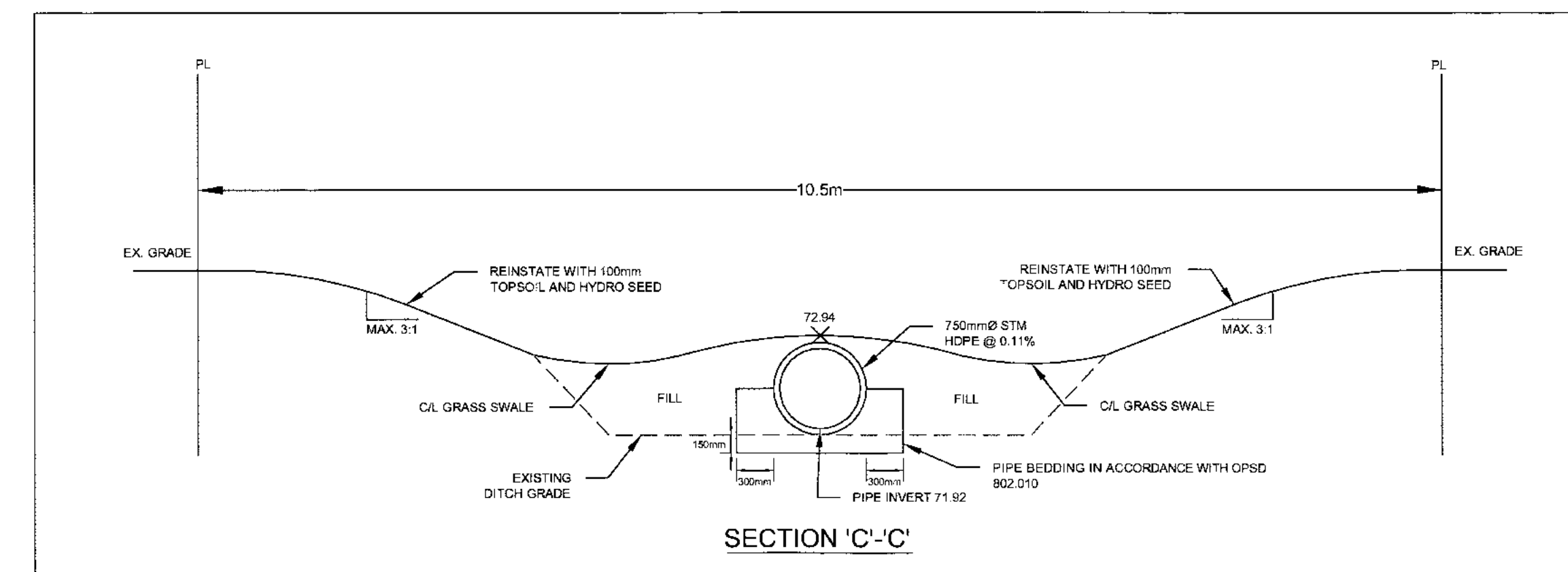
SCALE: N.T.S.



ROADWAY RECONSTRUCTION DETAIL

SCALE: N.T.S.

- MARQUETTE ST.
- VAUDREUIL ST.
- LOUIS HEBERT ST.
- LASALLE ST.



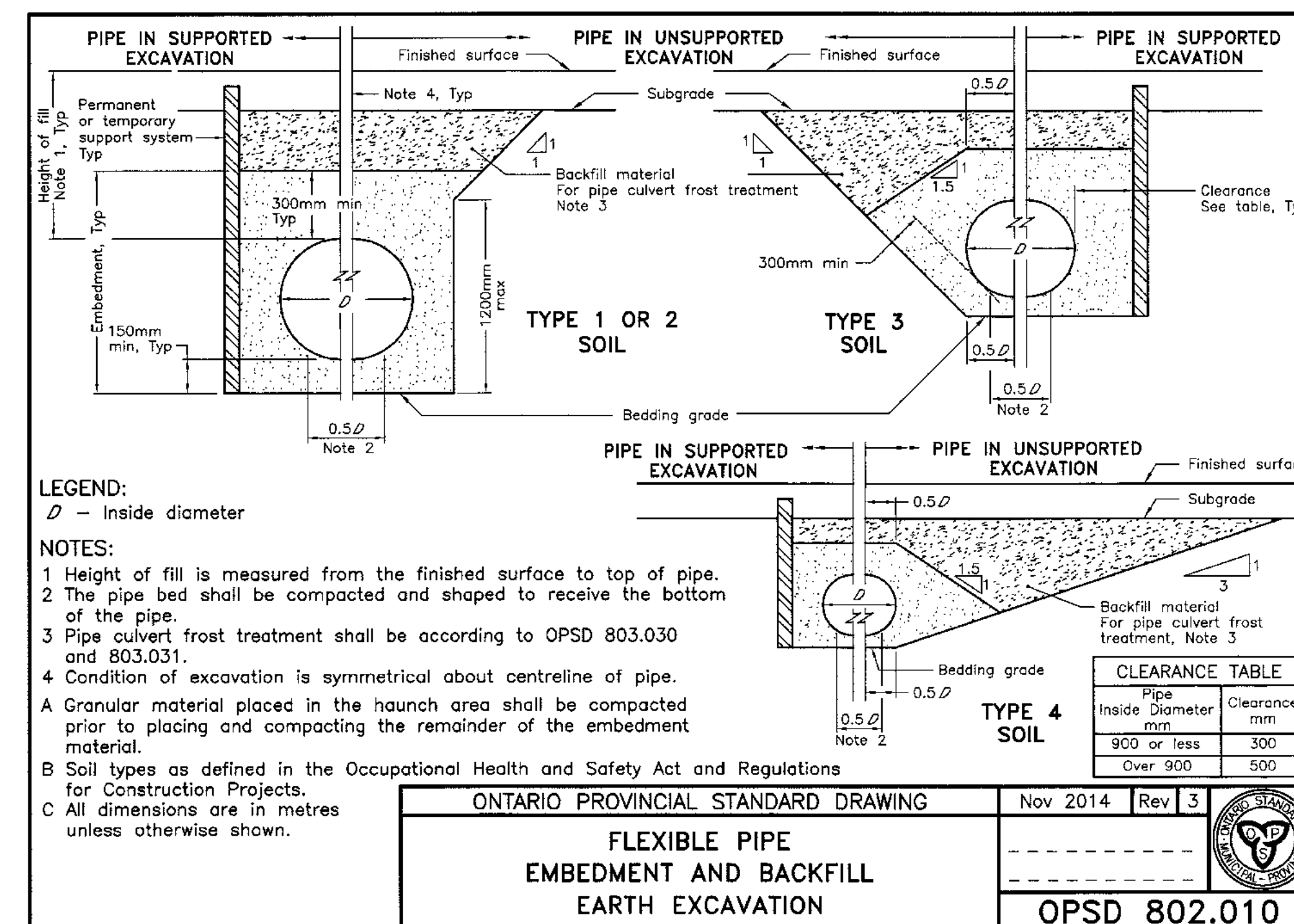
STORM OUTLET PIPE DETAIL

SCALE: N.T.S.

ROADWAY CULVERTS											
Street Name	Diameter (mm)	As-Built Diameter	Material	Length (m)	As-Built Length	Existing Upstream Invert	Existing Downstream Invert	Proposed Upstream Invert	As-Built U/S Invert	Proposed Downstream Invert	As-Built D/S Invert
Louis Hebert Street	450	450	HDPE	15.00	15.10	73.04	72.98	73.04	73.040	72.98	72.985
Vaudreuil Street	525	525	HDPE	17.00	17.00	72.40	72.36	72.35	72.395	72.30	72.385
Marquette Street	750	750	CONC	13.00	12.50	72.21	72.21	72.20	72.200	71.95	71.960

DRIVEWAY CULVERTS												
Street Name	Lot	Diameter (mm)	As-Built Diameter	Material	Length (m)	As-Built Length	Existing Upstream Invert	Existing Downstream Invert	Proposed Upstream Invert	As-Built U/S Invert	Proposed Downstream Invert	As-Built D/S Invert
Lasalle Street	1	525	525	HDPE	12.0	12.10	72.60	72.53	72.54	72.540	72.49	72.490
Lasalle Street	2	525	525	HDPE	13.0	13.05	72.62	72.57	72.58	72.590	72.56	72.565
Lasalle Street	3	450	450	HDPE	14.0	14.10	73.08	72.93	72.92	72.920	72.87	72.860
Lasalle Street	4	525	525	HDPE	11.5	11.70	72.82	72.86	72.69	72.700	72.67	72.670
Lasalle Street	4	525	525	HDPE	11.0	11.20	72.82	72.82	72.84	72.645	72.62	72.620
Lasalle Street	6	525	525	HDPE	12.5	12.70	72.85	72.91	72.85	72.85	72.82	72.82
Marquette Street	7	450	450	HDPE	8.0	10.10	72.64	72.60	72.65	72.660	72.62	72.620
Vaudreuil Street	8	450	450	HDPE	13.5	13.50	73.00	72.92	72.50	72.510	72.45	72.450
Marquette Street	9	450	450	HDPE	12.5	12.70	72.47	72.56	72.51	72.520	72.46	72.470
Marquette Street	12	450	450	HDPE	12.0	12.00	72.61	72.72	72.45	72.470	72.41	72.415
Marquette Street	14	450	450	HDPE	13.0	13.20	72.52	72.53	72.28	72.290	72.23	72.230
Marquette Street	15	600	600	HDPE	14.0	14.00	72.27	72.27	72.27	72.250	72.22	72.210
Marquette Street	16	450	450	HDPE	15.5	15.60	72.34	72.51	72.14	72.150	72.13	72.120
Marquette Street	18	600	600	HDPE	12.5	12.70	72.23	72.22	72.13	72.390	72.13	72.300
Marquette Street	20	600	600	HDPE	13.0	13.10	72.29	72.27	72.15	72.340	72.15	72.330
Marquette Street	22	600	600	HDPE	15.0	15.10	72.25	72.22	72.17	72.360	72.17	72.350
Marquette Street	24	525	525	HDPE	10.0	10.10	72.44	72.41	72.44	72.450	72.41	72.420
Marquette Street	Block 25	525	525	HDPE	12.0	12.05	72.51	72.48	72.48	72.480	72.45	72.450

AS-BUILT CULVERT INFORMATION



File Location: R:\2020\27120-01_Marquette_Vaudreuil_Roadway_Rehabilitation\DWG\Civil\27120-01_C.DETAIL_PLAN.dwg

No	ISSUE / REVISION	DATE
2	ISSUED FOR TENDER	28/02/17
1	ISSUED FOR 90% SUBMISSION	10/02/17

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CONSULTANT:

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L.J.A. JABLONSKI
PROVINCE OF ONTARIO

PROJECT:

ROADWAY REHABILITATION OF MARQUETTE, VAUDREUIL, LOUIS HEBERT AND LASALLE STREETS

CLARENCE-ROCKLAND

DRAWING:

DESIGN: CS

DRAWN: CJM

CHECKED: LJ

JLR #: 27120-01

DRAWING #: **D1**

DATE: February 28, 2017 11:58 PM