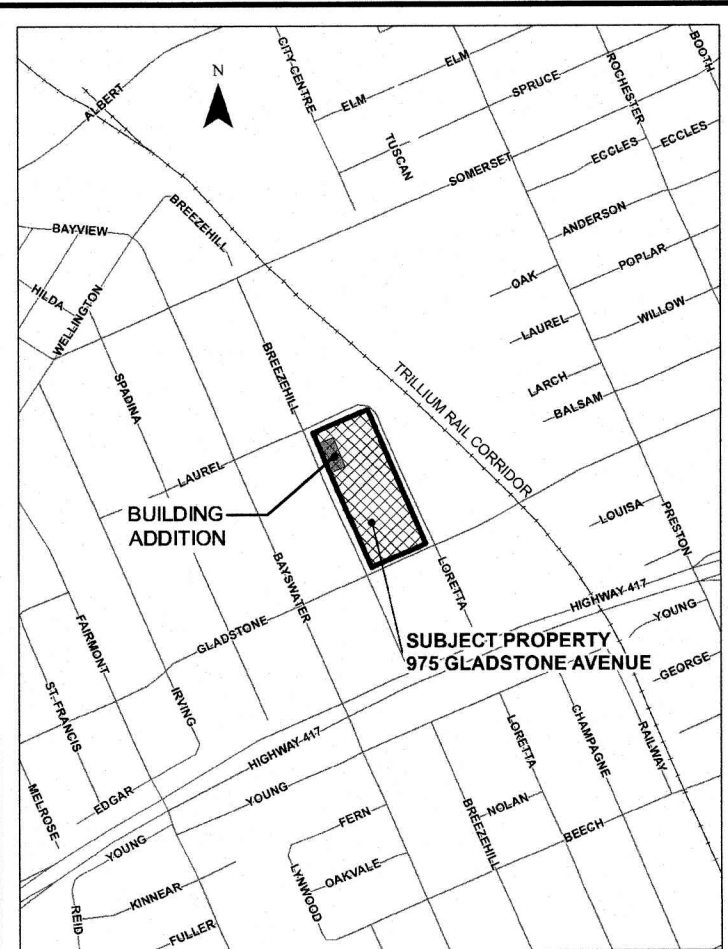


GENERAL NOTES

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. LOCATION OF ALL EXISTING DETAIL SHOWN ON THE DRAWINGS IS APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR. FIELD LOCATE UTILITIES AND COORDINATE WITH LOCAL AUTHORITIES.
  3. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE, VIA EXCAVATION, THE EXACT LOCATION AND ELEVATION OF THE EXISTING WATERMAINS, SEWERS AND UNDERGROUND STRUCTURES AS REQUIRED FOR ALL CONNECTIONS, RELOCATIONS AND BLANKINGS.
  4. ITEMS ENCOUNTERED BELOW GRADE NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
  5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND SUBMIT A NEAT AND ACCURATE RECORD OF DRAWINGS, FOR THE OWNER'S RECORD.
  6. THE CONTRACTOR SHALL SUPPLY ALL THE NEW MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THESE DRAWINGS.
  7. 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 ENGINEER AND PROVIDE THE AUTHORIZATION TO THE ENGINEER. REQUESTS MADE BY THE CONTRACTOR TO MODIFY AND/OR DELETE MUNICIPAL STANDARDS WILL NOT BE ACCEPTED DURING CONSTRUCTION.
  8. 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 ENGINEER 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 ENGINEER, HE WILL BE RESPONSIBLE TO PERFORM AND/OR PAY FOR REMEDIES REQUIRED BY THE ENGINEER.
  9. THE OWNER, IN CONSULTATION WITH THE ENGINEER, 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.
  10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY DRAINAGE MEASURES AND/OR PUMPING FOR THE DETWATERING OF THE CONSTRUCTION AREA TO KEEP EXCAVATION AND WORK AREAS FREE FROM WATER DURING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO OBTAIN AN MCECC PERMIT TO TAKE WATER, IF WATER REMOVED IS EQUAL TO OR GREATER THAN 50,000 L/DAY.
  11. THE CONTRACTOR IS RESPONSIBLE FOR ALL NEW GRADING SHOWN ON THE DRAWINGS.
  12. THE CONTRACTOR IS RESPONSIBLE FOR VERTICAL AND HORIZONTAL CONTROL, AND FOR THE LAYOUT OF THE WORK. THE CONTRACTOR IS TO CONFIRM REFERENCE POINTS PRIOR TO COMMENCEMENT OF THE WORK.
  13. 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.
  14. WHERE SAMPLED MATERIAL FAILS TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS, THE ENGINEER MAY, AT THEIR DISCRETION, REJECT THE MATERIAL FOR USE ON THE PROJECT. THE CONTRACTOR SHALL REMOVE THE FAILED MATERIAL AT THEIR COST AND PROVIDE COMPLIANT MATERIAL.
  15. REMOVE FROM SITE ALL EXCESS & EXCAVATED MATERIAL. NO EXCESS MATERIAL IS TO BE STORED ON SITE.
  16. AREAS DENOTED AS GRASS SHALL BE 100mm TOPSOIL AND HYDRO SEEDING AS PER OPS 804. CONTRACTOR SHALL USE STANDARD ROADSIDE SEED MIX WITH HYDRAULIC MULCH COVER.
- STORM SEWERS**
17. INSTALL STORM SEWER SHALL BE AS PER OPS 410.
  18. STORM SEWER EMBEDMENT AND BACKFILL SHALL BE AS PER OPS 802.010 AND 802.013.
  19. STORM SEWERS 250mm DIAMETER, TO BE IPEX ULTRA-RIB PVC (OR EQUIVALENT).
  20. RIGID PIPE EMBEDMENT AND BACKFILL MATERIAL TO BE COMPACTED TO A DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- REMOVALS:**
21. EXCAVATION FOR THE INSTALLATION OF SERVICES ALONG OR IN PROXIMITY OF A BUILDING OR A STRUCTURE IS TO BE CONTAINED WITHIN A TRENCH BOX WIDTH AND IS TO ENSURE NO CONFLICT WITH ANY FUTURE FOOTINGS. SELECT SUBGRADE MATERIAL, COMPACTED TO 100% SPD TO 1.0m BELOW EXISTING GRADE FOR FULL TRENCH WIDTH OF DISTURBED AREA SHALL BE USED FOR BACKFILL, INCLUDING ALONG ANY SEWERS AND WATERMAINS ADJACENT TO A BUILDING OR OTHER STRUCTURE.
  22. REMOVE FROM SITE ALL EXCESS & EXCAVATED MATERIAL. NO EXCESS MATERIAL IS TO BE STORED ON SITE.
- REINSTATEMENTS:**
23. ASPHALT REINSTATEMENT TO MATCH EXISTING AT A MINIMUM.
  24. 50mm SP 12.5 FC2
  25. 150mm GRANULAR 'A'
  26. 300mm GRANULAR 'B'
  27. AT ALL LOCATIONS WHERE NEW ASPHALT IS TO CONNECT TO THE EXISTING ASPHALT, A JOINT IS TO BE CONSTRUCTED AS PER JOINT DETAIL.
- EROSION AND SEDIMENT CONTROL:**
28. THE CONTRACTOR SHALL PREPARE AND SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL BY THE ENGINEER. THE PLAN SHALL CONSIDER AND INCLUDE THE FOLLOWING MEASURES:
    - THE CONTRACTOR SHALL PROTECT ALL EXPOSED SURFACES AND CONTROL ALL RUNOFF DURING CONSTRUCTION.
    - ANY STOCK PILE MATERIAL SHALL BE KEPT ON FLAT AREAS DURING CONSTRUCTION, WELL AWAY FROM DRAINAGE PATHS.
    - LIGHT DUTY SILT FENCE AS PER OPS 219.110 TO BE INSTALLED AROUND THE PERIMETER OF THE SITE, ALONG THE INNER SIDE OF THE PROPERTY LINE FOR THE DURATION OF CONSTRUCTION.
    - ALL PROPOSED MAINTENANCE HOLES ARE TO BE INSTALLED WITH FILTER FABRIC AND SHALL BE MAINTAINED FOR THE DURATION OF THE WORK PHASE.
    - CONTRACTOR SHALL SUPPLY AND INSTALL MUD MATS AT ALL CONSTRUCTION ACCESS POINTS.

PROJECT NORTH



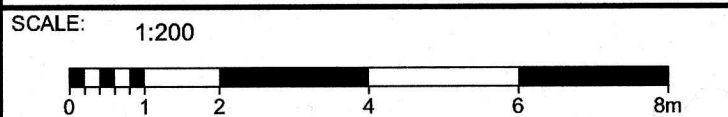
KEY PLAN

- 296
- DENOTES NUMBER OF PARKING SPACES
  - GARAGE DOOR
  - PEDESTRIAN ENTRANCE
  - BOLLARD (SEE DETAIL D07)
  - BOREHOLE
  - PROPERTY LINE
  - CHAIN LINK SECURITY FENCE TO MATCH EXISTING
  - EXISTING CHAIN LINK SECURITY FENCE

No.	ISSUE / REVISION	DDMMYY
3	CITY COMMENTS	28/01/20
2	ISSUED FOR SITE PLAN APPROVAL	18/12/19
1	ISSUED FOR CLIENT REVIEW	14/08/19

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

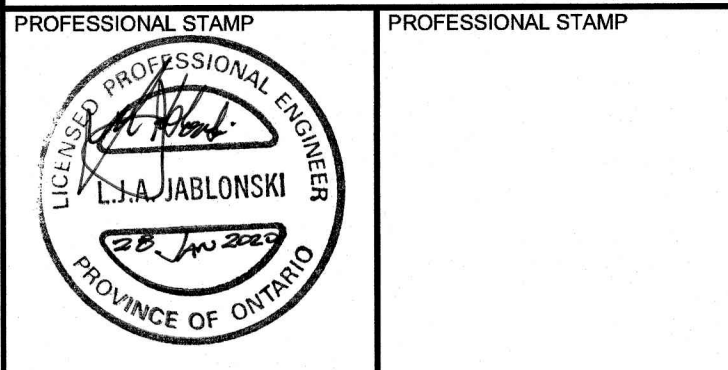


CLIENT:

CONSULTANT: [www.jrichards.ca](http://www.jrichards.ca)



CONSULTANT:



PROJECT:

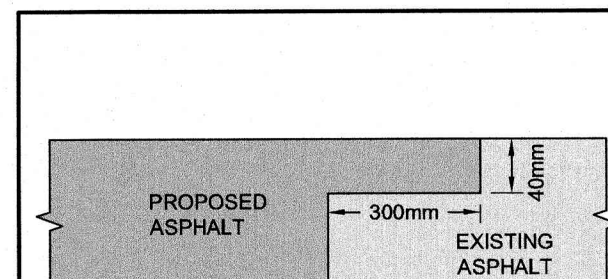
GLADSTONE WAREHOUSE STUDY

975 GLADSTONE AVENUE, OTTAWA

DRAWING:

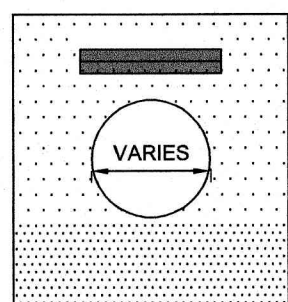
SERVICING, GRADING AND EROSION AND SEDIMENT CONTROL PLAN

DESIGN: TB	DRAWING #:
DRAWN: KTK/TB	
CHECKED: LJ	
JLR #: 27375-003	<b>G1</b>



JOINT DETAIL

N.T.S.



1. SEWER INSTALLATION (INCLUDING BEDDING AND COVER) TO BE PER CITY OF OTTAWA TRENCH DETAIL S6
2. INSULATION POINTS TO BE STAGGERED, WITH MINIMUM 0.3 OVERLAP
3. INSULATION TO BE CENTERED OVER PIPE WITH MINIMUM WIDTH OF 2.4m FOR 1.2m COVERAGE
4. INSULATION TO BE PROVIDED AT ALL SEWER LOCATIONS WHERE MINIMUM COVERAGE OF 2.0m IS NOT ACHIEVED.

INSULATION DETAIL

N.T.S.

INSULATION REFERENCE TABLE	
EARTH COVER	REQUIRED INSULATION THICKNESS
2.0m - 1.8m	25mm
1.8m - 1.5m	50mm
1.5m - 1.2m	75mm