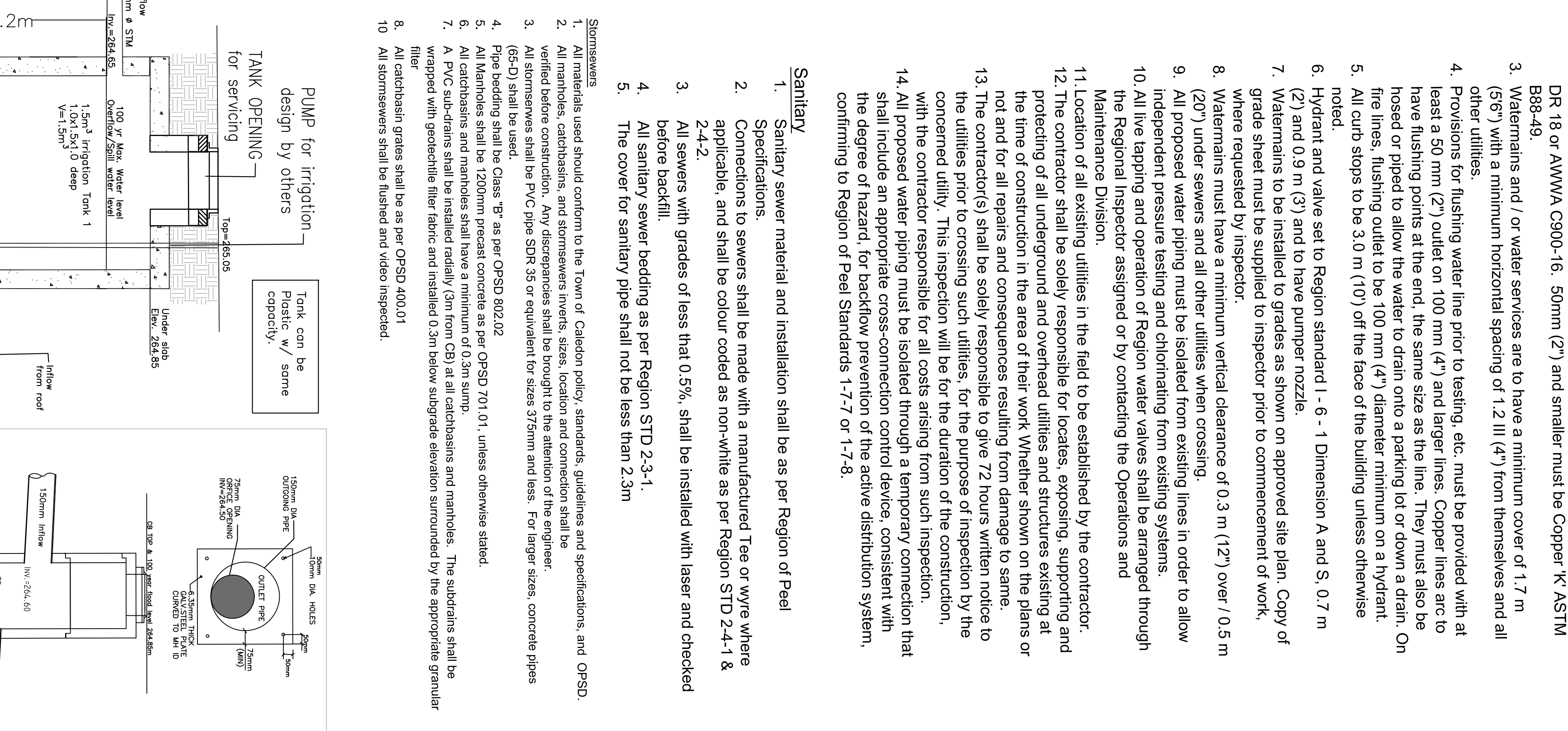
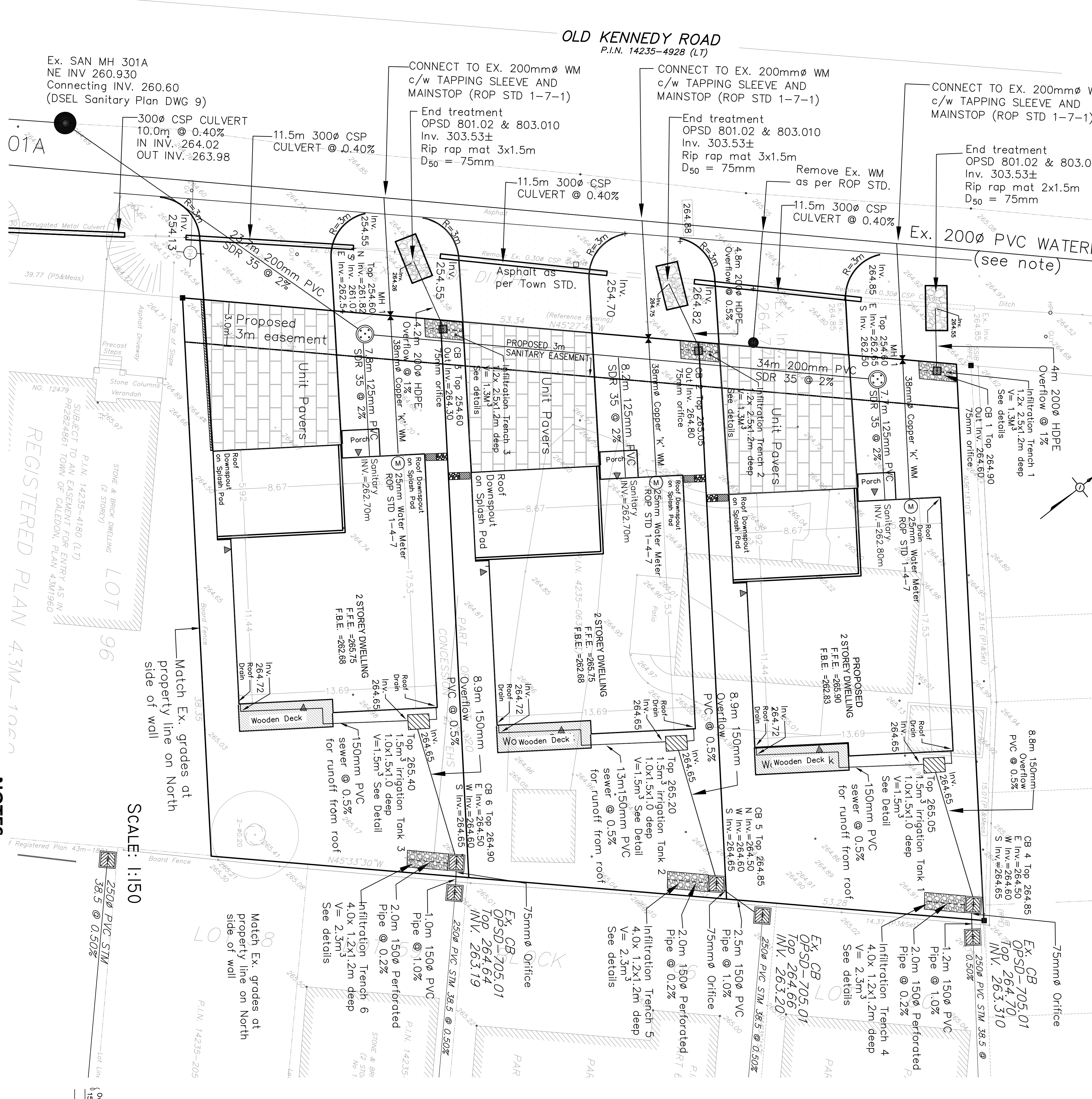


Contractor to verify that 200mm watermain is installed.



REGION OF PEEL NOTES

- All materials and construction methods must correspond to the current Peel Public Works standards and specifications.
- Watermain and/or water service materials: 100mm (4") and larger must be PVC DR 18 or AWWA C900-16, 50mm (2") and smaller must be Copper 'K' ASTM B88-49.
- Watermains and/or water services are to have a minimum cover of 1.7 m (5'6") with a minimum horizontal spacing of 1.2 m (4') from themselves and all other utilities.
- Provisions for flushing water line prior to testing, etc. must be provided with at least a 50 mm (2") outlet on 100 mm (4") and larger lines. Copper lines are to have flushing points at the end, the same size as the line. They must also be nosed or piped to allow the water to drain onto a parking lot or down a drain. On fire lines, flushing outlet to be 100 mm (4") diameter minimum on a hydrant.
- All curb stops to be 3.0 m (10') off the face of the building unless otherwise noted.
- Hydrant and valve set to Region standard I - 6 - 1 Dimension A and S, 0.7 m (22) and 0.9 m (3') and to have pumper nozzle.
- Watermains to be installed to grades as shown on approved site plan. Copy of grade sheet must be supplied to inspector prior to commencement of work, where requested by inspector.
- Watermains must have a minimum vertical clearance of 0.3 m (12") over / 0.5 m (20") under sewers and all other utilities when crossing.
- All proposed water piping must be isolated from existing lines in order to allow independent pressure testing and chlorinating from existing systems.
- All live tapping and operation of Region water valves shall be arranged through the Regional Inspector assigned or by contacting the Operations and Maintenance Division.
- Location of all existing utilities in the field to be established by the contractor.
- The contractor shall be solely responsible for locating, exposing, supporting and protecting of all underground and overhead utilities and structures existing at the time of construction in the area of their work. Whether shown on the plans or not and for all repairs and consequences resulting from damage to same.
- The contractor(s) shall be solely responsible for the purpose of inspection by the utilities prior to crossing such utilities, for the duration of the construction, with the contractor responsible for all costs arising from such inspection.
- All proposed water piping must be isolated through a temporary connection that shall include an appropriate cross-connection control device, consistent with the degree of hazard, for backflow prevention of the active distribution system, conforming to Region of Peel Standards 1-7-7 or 1-7-8.

Sanitary

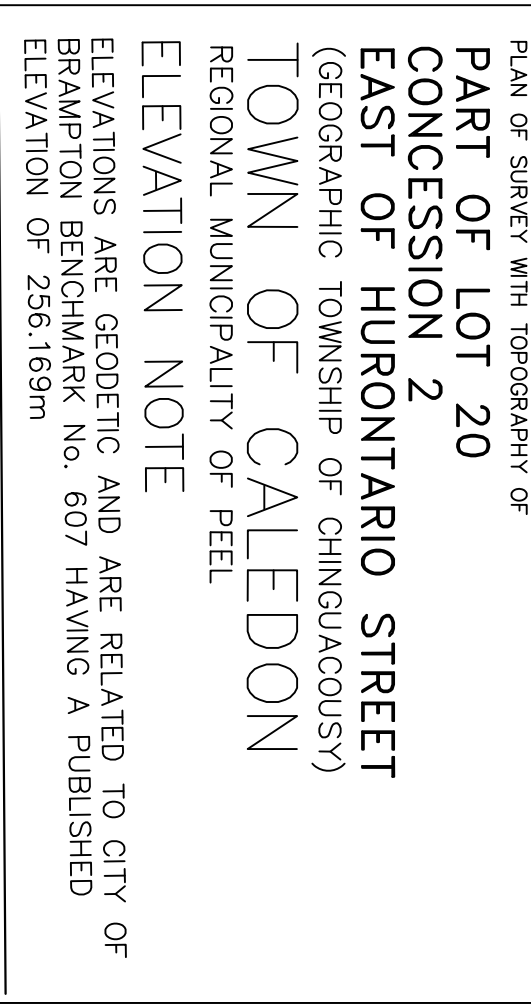
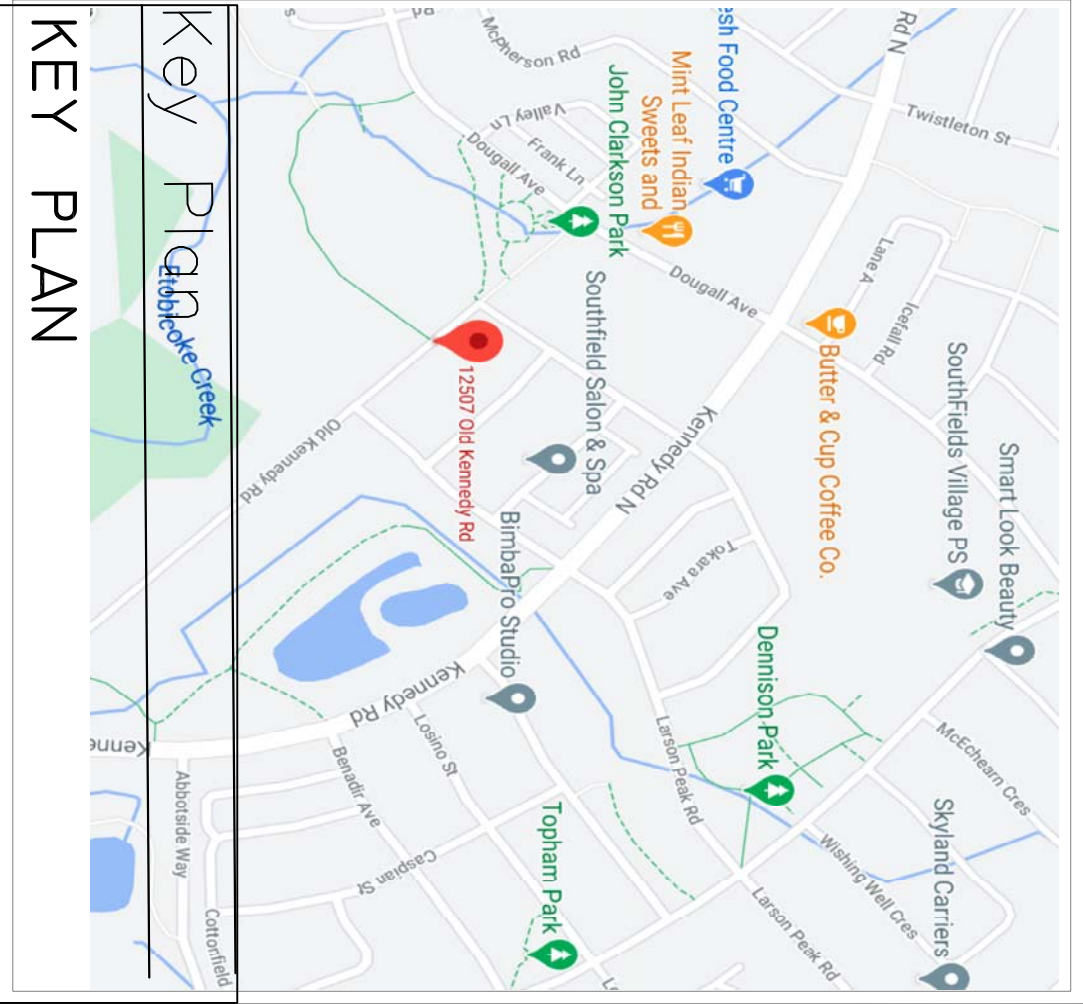
- Sanitary sewer material and installation shall be as per Region of Peel Specifications.
 - Connections to sewers shall be made with a manufactured Tee or wyre where applicable, and shall be colour coded as non-white as per Region STD 2-4-1 & 2-4-2.
 - All sewers with grades of less than 0.5%, shall be installed with laser and checked before backfill.
 - All sanitary sewer bedding as per Region STD 2-3-1.
 - The cover for sanitary pipe shall not be less than 2.3m.
- Sewers**
- All materials used should conform to the Town of Caledon policy, standards, guidelines and specifications, and OPSD.
 - All manholes, catchbasins, and stormsewers inverts, sizes, location and connection shall be verified before construction. Any discrepancies shall be brought to the attention of the engineer.
 - All stormsewers shall be PVC pipe SDR 35 or equivalent for sizes 375mm and less. For larger sizes, concrete pipes (65-D) shall be used.
 - Pipe bedding shall be Class "B" as per OPSD 802.02.
 - All manholes shall be 1200mm precast concrete as per OPSD 701.01, unless otherwise stated.
 - All catchbasins and manholes shall have a minimum of 0.3m slump.
 - A PVC sub-drains shall be installed radially (3m from CB) at all catchbasins and manholes. The sub-drains shall be wrapped with geotextile filter fabric and installed 0.3m below subgrade elevation surrounded by the appropriate granular filter.
 - All catchbasin grates shall be as per OPSD 400.01
 - All stormsewers shall be flushed and video inspected.

NOTES

All storm sewers are to be wrapped in insulation to prevent/ reduce freezing.

NOTES

The inverts of the storm, sanitary and water connections to the Town and Region of Peel services are to be verified/determined. Based on the inverts obtained, all storm, sanitary and watermain design inverts at all connecting manholes will have to be reviewed.



| No | REVISION | DATE | BY |
|----|----------------|--------------|----|
| 1. | 1st submission | May 10, 2021 | RD |

PROJECT:
Residential Homes
 12507 Old Kennedy Road
 Caledon, Ontario

GRADING

PROJECT DATE: May 10, 2021
 SCALE: 1:150
 DRAWING NAME: SP 18 - 70
 DRAWING NO: SSG - 2

Ram Engineering Inc.
 11 92 White Clover Way
 Mississauga L5V 1K8
 905 567 1215
 Email: RamDharamdial@gmail.com

LICENSED PROFESSIONAL ENGINEER
 R. DHARAMDIAL
 May 10 2021
 PROVINCE OF ONTARIO

KEY PLAN

LEGEND

EXISTING GRADE ELEVATION

PROPOSED ELEVATION

OVERLAND FLOW ROUTE

EXISTING FLOW DIRECTION

Drainage Area to STM -

Area number and size in ha

Drainage Area boundary for sewer design