

#### GRADING NOTES

- Roof downspouts shall discharge to grade. Roofwater shall be directed to the existing rock lined drainage ditch to the East of the building.
- Asphalt grades are to be checked and approved in the field by the Departmental Representative, notwithstanding grades shown on the drawing. The grades of curbs, sidewalks, and pavements, where they join onto existing works, are to be confirmed as well, in the field, by the departmental representative.
- Stabilize swales and ditches with 100mm topsoil and hydroseed unless otherwise noted.
- All areas not concrete or asphalt shall be finished with 100mm topsoil and sod.

#### WATERMAIN NOTES

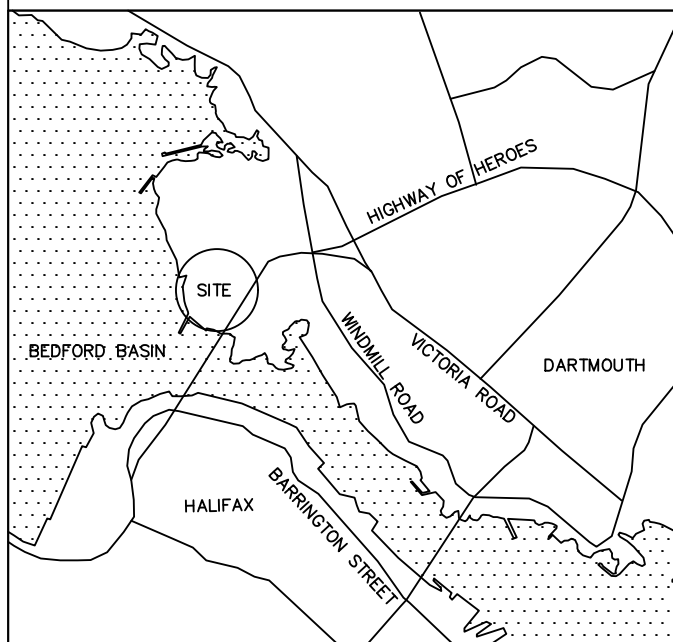
- Watermain shall maintain a minimum of 1.5m horizontal separation from electrical or telephone conduits, or other utilities. Contractor to confirm on site prior to construction.
- Watermain shall have concrete thrust blocks and Halifax Water approved mechanical thrust restraints at all tees, bends, capped ends, under valves, and at fire hydrants, etc. Refer to Halifax Water Design and Construction Specifications.
- For corrosion protection of watermain and fittings, install 200 micron polyethylene tube or sheet conforming to AWWA C105, also, install zinc anodes on all valves and hydrant bases.
- A minimum of 450mm of vertical separation shall be maintained between all watermain and storm/sanitary sewer pipes at crossings when horizontal separation cannot be achieved.
- The contractor shall be responsible for all pressure testing, leakage testing, disinfecting, and flushing of water system pipe-work. All testing and disinfection shall be conducted in the presence of the consultant and departmental representative.
- The contractor shall arrange and pay for any additional hydrostatic or bacteriological testing should the first cycle of testing fail to meet Halifax Water specifications, including fees related to the Departmental Representative's time required.
- All watermain shall maintain a minimum of 1.60m of cover and a maximum of 2.00m of cover, unless approved by Departmental Representative.
- Watermain pipe shall be ductile iron AWWA C151/A21.51 special Class 52 cement mortar lined with interior asphaltic seal coat.
- Water service laterals shall be 38mmø Type K copper.
- All water pipes over 50mm shall be hydrostatic pressure tested to 200psi with no allowable drop over a two hour period.
- All water main material shall be stored on site in a manner to avoid contamination by any construction debris especially including any source of chemical or hydrocarbon contamination.
- All valves directions to close as per Halifax Water standard detail No. HWSD-1060.

#### SEWER NOTES

- All sanitary pipe shall be PVC DR35 unless otherwise noted on the drawing.
- Backfill around manholes shall be type 2 gravel extending a minimum of 300mm outward from the exterior face of the manhole and vertically from bedding material to the bottom of road bed gravel.
- All sanitary pipe shall be low pressure air tested, and CCTV inspected. To be witnessed by the departmental representative. Notify the Departmental Representative no sooner than 48hours before testing.

#### GENERAL NOTES

- For additional and details refer to drawing C003
- Contour interval is 0.2 metre, based on data, provided by PWGSC. Survey was completed in Fall 2020 by Gentec Limited.
- Elevations are geodetic, and refer to Nova Scotia Co-ordinate Referencing System AT577, NSCRS #205433 Elev=28.995m.
- Maximum slope shall be 2:1 unless constructed on in-situ rock.
- All work shall be in accordance with the latest Halifax Regional Municipality (HRM) Specification, as well as, the latest Halifax Regional Water Commission (Halifax Water) Specifications & Regulations.
- Information shown as to existing works is approximate only. Exact location, if required, shall be determined by the contractor.
- For layout control survey markers, the contractor is to coordinate with the Departmental Representative.
- All necessary permits shall be the responsibility of others, and be in place prior to construction.
- Do not encroach on adjacent property. Make good any damage to adjacent properties at contractor's expense.
- Do not disturb existing survey markers or services in the area. Reinstall and make good any damage or disturbance at contractor's cost.
- Refer to electrical plans for location of underground ducts, electrical conduits and all other electrical components.
- Refer to architectural (and other) drawings for final elevations of finished floor, walkways and other building related features.
- Existing fill material beneath the building shall be excavated, removed and replaced with surge rock as per the project's geotechnical investigation report. Confirmation of surge rock placement to be completed under the supervision of the project geotechnical engineer.



3	ISSUED FOR TENDER	02/18/2021
revisions		date
project		project

CCG, MCI Heavy Equipment Storage Facility

drawing dessin

Grading, Servicing & Piping Profiles

designed	conçu
date	
drawn	TJB
drawn	dessiné
approved	approuvé
date	
Tender	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC
project number	no. du projet
R.110935.001	
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C002	