

**GENERAL NOTES**

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS AND ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS WHERE APPLICABLE. ONTARIO PROVINCIAL STANDARDS SHALL APPLY WHERE NO CITY STANDARDS ARE AVAILABLE. ALL DRAWINGS TO BE CHECKED FOR CONFIRMATION WITH APPLICABLE BUILDING CODES.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS NECESSARY TO SATISFY ENGINEERING AND LANDSCAPE WORKS. CONTRACTOR TO OBTAIN PERMIT FOR CONNECTION TO WATERMAIN. CONTRACTOR TO VISIT SITE PRIOR TO TENDERING AND CONFIRM SITE CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF SAME.
- LOCATION OF SERVICES ARE NOT ALL SHOWN. LOCATION OF UTILITIES AND UNDERGROUND WORKS THAT ARE SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL SERVICES, UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REINSTATEMENT.
- THE CONTRACTOR SHALL CONSTRUCT WATER SERVICE, CONNECTION, AND APPURTENANCES AS PER THE CITY SPECIFICATIONS AND SHALL COORDINATE AND PAY ALL RELATED COSTS INCLUDING THE COST OF CONNECTION, INSPECTION, DISINFECTION AND WATER METER SUPPLY AND INSTALLATION BY CITY PERSONNEL. SERVICE CONNECTION SHALL BE INSTALLED A MINIMUM 2400 mm FROM ANY CATCH BASIN, MANHOLE OR OBJECT THAT MAY CONTRIBUTE TO FREEZING. THERMAL INSULATION SHALL ONLY BE INSTALLED WHERE SHOWN ON THE DRAWING OR OTHERWISE APPROVED BY THE CITY AS PER THE CITY SPECIFICATIONS W21, W22 AND W23. (WATER METER AND APPURTENANCES AS PER W-30, 31 AND 32)
- THE CONTRACTOR SHALL CONSTRUCT CULVERT AND STORM AND SANITARY SEWERS IN ACCORDANCE WITH OPSD 802.010, 802.013 AND 802.014. DURING CONSTRUCTION, PROTECT PIPES FROM HEAVY CONSTRUCTION EQUIPMENT AS PER OPSD 808.01. STORM AND SANITARY SEWER SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH OPSD 708.01, 708.020, 708.03, 1006.010 AND 1006.020. BEDDING AND BACKFILL SHALL BE COMPACTED TO 95% SPMDD. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR ANY FURTHER RECOMMENDATIONS. PROPOSED SEWER TRENCHES TO BE EXCAVATED TO REACH UNDISTURBED SOIL AND REPLACED WITH GRANULAR 'A' CRUSHED STONE BEDDING AND INITIAL BACKFILL TO 300MM ABOVE PIPE COMPACTED TO A MIN. OF 95% SPMDD.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE RECEIVING WATERCOURSE DURING CONSTRUCTION ACTIVITIES. THESE PRACTICE ARE REQUIRED TO ENSURE NO SEDIMENT AND/OR ASSOCIATED POLLUTANTS ARE RELEASED TO THE RECEIVING WATERCOURSE AND INCLUDE INSTALLATION OF SEDIMENT BARRIERS ON ALL CATCH BASIN AND MAINTENANCE HOLES AND A SILT FENCE BARRIER (AS PER OPSD 219.110 AND ASSOCIATED SPECIFICATIONS) ALONG ALL OTHER AREAS THAT SHEET DRAIN OFF SITE. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
- ALL DISTURBED AREAS TO BE REINSTATED TO EQUAL OR BETTER CONDITION. PAVEMENT REINSTATEMENT FOR UTILITY CUTS SHALL BE IN ACCORDANCE WITH R10. ALL NEW WORK SHALL BLEND INTO EXISTING (TO BE APPROVED BY CONSULTANT).
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. DRAWINGS SHOULD NOT BE SCALED BY THE CONTRACTOR. ANY MISSING OR QUESTIONABLE DIMENSIONS ARE TO BE CONFIRMED WITH THE CONSULTANT IN WRITING.
- SITE WORKS CONTRACTOR IS RESPONSIBLE FOR ALL WORKS, UTILITY AND SERVICE CONNECTIONS TO THE BUILDING. CONNECTIONS TO BE COORDINATED WITH BUILDING CONTRACTOR.
- STRIPPING AND SUBGRADE PREPARATION SHALL BE PERFORMED WITH AN EXCAVATOR EQUIPPED WITH A SMOOTH MOUTHED BUCKET TO MINIMIZE DISTURBANCE. EXPOSED SUBGRADE SOIL SHALL BE GRADED TO ALLOW EFFECTIVE DRAINAGE DURING CONSTRUCTION. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
- CURBING AS PER CITY STANDARD TOP ELEVATIONS AT 150 mm ABOVE ASPHALT GRADE UNLESS OTHERWISE NOTED. CONCRETE SIDEWALK AS PER CITY STANDARD. GRADE LANDSCAPE AREAS FROM TOP OF CURB (T/C) TO DRAIN AT SLOPE OF 3:1 OR FLATTER. THE CONTRACTOR SHALL CONSTRUCT A FULLY DEPRESSED CONCRETE SIDEWALK AS PER OPSD 310.050.
- SIDE SLOPE OF EXCAVATIONS SHOULD BE SLOPED IN ACCORDANCE WITH THE REQUIREMENTS OF ONT. REG. 213/91 UNDER THE OCCUPATIONAL HEALTH AND SAFETY ACT. REFER TO GEOTECHNICAL REPORT FOR CONSTRUCTION DETAILS.
- WHERE CONCRETE CURBS MEET DEPRESSED CONCRETE SIDEWALK, DROP CURB AS PER OPSD 350.010.
- REFER TO LANDSCAPE AND ARCHITECTURAL PLAN FOR FINISHES AND FENCING DETAILS AND LOCATIONS.

**INSPECTION NOTES**

- CONTRACTOR TO ADVISE THE CONSULTANT A MINIMUM OF 72 HOURS (3 WORKING DAYS) PRIOR TO PROCEEDING WITH ANY ON-SITE WORKS.
- THE CONTRACTOR SHALL ADVISE THE CONSULTANT A MINIMUM OF 24 HOURS PRIOR TO THE FOLLOWING WORK SCHEDULE:

**SERVICES**

- PRIOR TO BACKFILLING, THE CONTRACTOR TO ADVISE CONSULTANT WHEN THE INSTALLATION OF ALL SERVICES ARE COMPLETE.

**CATCH BASINS AND MANHOLES**

- EXCAVATION FOR CATCH BASINS AND MANHOLES SHALL BE COMPLETED AND READY FOR PLACEMENT OF GRANULAR BEDDING. CONTRACTOR SHALL ARRANGE TO HAVE BEDDING PLACED AND COMPACTED AND CATCH BASINS AND MANHOLES INSTALLED DURING THE INSPECTION.

**SUBGRADE PREPARATION**

- SUBGRADE SHALL BE SHAPED AND COMPACTED TO GRADE AND READY FOR PLACEMENT OF GRANULAR 'B'.

**GRANULAR 'B'**

- GRANULAR 'B' SHALL BE SHAPED AND COMPACTED TO GRADE AND READY FOR PLACEMENT OF GRANULAR 'A'.

**GRANULAR 'A'**

- GRANULAR 'A' SHALL BE SHAPED AND COMPACTED TO GRADE AND READY FOR PLACEMENT OF ASPHALT.

**CURBS AND SIDEWALKS**

- THE CONTRACTOR SHALL ADVISE THE CONSULTANT PRIOR TO THE CONSTRUCTION OF CONCRETE CURBS AND SIDEWALKS FOR VERIFICATION OF GRADES.

**ASPHALT**

- THE CONTRACTOR SHALL ADVISE THE CONSULTANT PRIOR TO THE CONSTRUCTION OF ASPHALT PARKING AREAS AND ACCESSSES.

**OTHER WORKS**

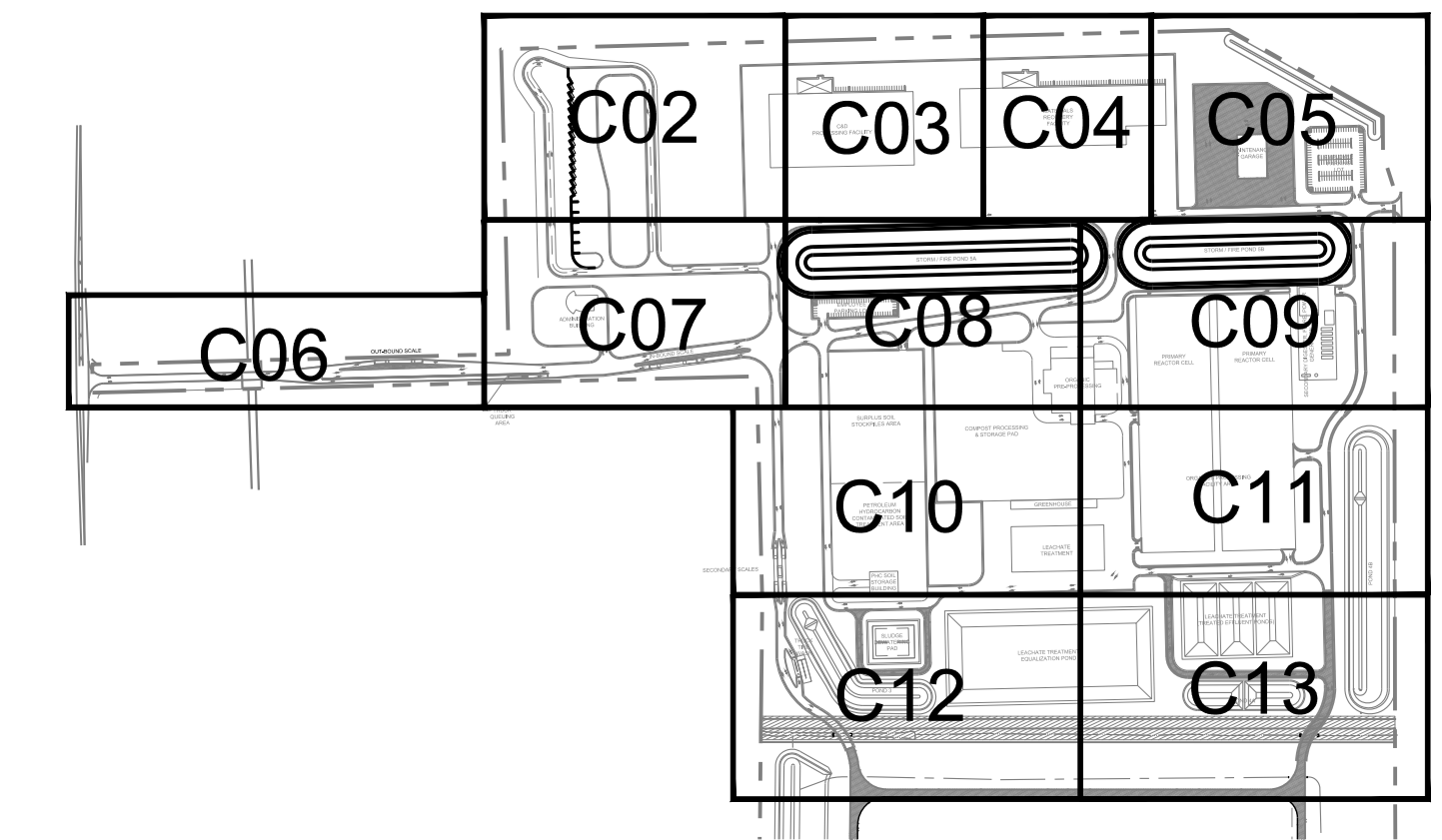
- AS REQUIRED AT THE DIRECTION OF THE CONSULTANT.

- ALL COSTS FROM ADDITIONAL INSPECTIONS RESULTING FROM CONTRACTORS LACK OF COORDINATION OR FAILED INSPECTIONS TO BE BORNE BY CONTRACTOR.

**LEGEND**

- PROPERTY BOUNDARY
  - PROPOSED SWALE GRADE
  - PROPOSED GRADE
  - EXISTING GRADE
  - EXISTING GRADE (GOLDER SURVEY ON NOVEMBER 01, 2017)
  - EXISTING CONTOUR (0.25 m INTERVAL)
  - TERRACING (SLOPE AS INDICATED)
  - RIP-RAP 200 mmØ, 300 M THICK (NOMINAL) AS PER OPSD 810.010 TYPE 'B'
  - PROPOSED DITCH
  - CATCH BASIN (OPSD 705.010 C/W 600 mm SUMP)
  - MAINTENANCE HOLE (OPSD 707.020)
  - PROPOSED STORM SEWERS
  - 600 mmØ CULVERT OR AS NOTED
  - EXISTING CULVERT AS NOTED
  - EXISTING SIMPSON DRAIN GRADE (SURVEY BY GOLDER ASSOCIATES LTD JULY 5, 2012)
  - DRAINAGE DIRECTION
  - BUILDING MAIN ENTRANCE
  - BUILDING EXIT DOORS
  - BUILDING OVERHEAD DOORS
  - PROPOSED SEPTIC AND STORAGE TANKS
  - PROPOSED FIRE PROTECTION PIPING
  - PROPOSED WATERMAIN
  - PROPOSED WATERMAIN VALVE
  - PROPOSED CHAIN LINK FENCE LOCATION
  - PROPOSED PAGE-WIRE FENCE LOCATION
  - EXISTING FENCE
  - ASPHALT ROAD
  - GRAVEL ROAD
  - 1.5 m GRAVEL SHOULDER AND ROUNDING
- ALL GRADES ARE METRES ABOVE SEA LEVEL (MASL)

**KEY MAP**



**REFERENCE(S)**

- BASE TOPOGRAPHIC INFORMATION PROVIDED IN A DIGITAL FORMAT BY BASE MAPPING CO. LTD. CONTRACT No. 2517-12. PHOTO DATE: NOVEMBER 7, 2012
- COORDINATE SYSTEM, HORIZONTAL DATUM UTM ZN18 NAD83, VERTICAL DATUM: CGVD28.

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SEAL



CLIENT

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PROJECT

CAPITAL REGION RESOURCE RECOVERY CENTRE

TITLE

GRADING AND DRAINAGE NOTE AND LEGEND

REV.	YYYY-MM-DD	DESCRIPTION	MHK	MLF	MHK	DVK
1	2018-06-15	ISSUED FOR SITE PLAN APPROVAL				
			DESIGNED	PREPARED	REVIEWED	APPROVED

PROJECT NO.	CONTROL	REV.	of	DRAWING
1787048	0006	1		C01

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D 25 mm