

FOR WATERMAIN 100mm (NOMINAL) TO 400mm (NOMINAL)

. CONCRETE FOR THRUST BLOCKS SHALL BE 20 MPa.

DATE: MAY 2001

REV. MARCH 2017

STANDARD TRENCH REINSTATMENT

IN PAVED SURFACE

1. BARREL TO BARREL SEPARATION (D) SHALL BE 250mm MINIMUM.

3. FOR 300mm (NOMINAL) AND 400mm (NOMINAL) MAINS, BENDS SHALL BE MAX. 22° 30'.

8. DESIGNED TO MEET THE INTENT OF THE MOE WATERMAIN DESIGN CRITERIA JUNE 2012.

WATERMAIN CROSSING

OVER SEWER

SECTION B - B

VEHICLE ACCESS CROSSING

REV. WARCH 2007

DWG, No.: SC8

NOTES:

1. IN ALL DEPRESSED ACCESS CROSSINGS, INCLUDING TAPER SECTION, CONCRETE SLABS SHALL BE 150mm IN DEPTH WITH 150x150mm, WW9.1 x WW9.1 REINFORCING WESH ON 150mm GRANULAR 'A'.

2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

3. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.

4. THE MAXIMUM SLOPE IS NOT TO EXCEED 4% FOR VEHICLE ACCESS RAMPS.

5. DROP CURB HEIGHT MINIMUM Omm, DESIRED 15mm, MAXIMUM 25mm.

Stanted

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#### Legend

PROPOSED SILT FENCE BOUNDARY AS PER OPSD 219.110

PROPOSED CATCHBASIN PROTECTION

# O

#### Best Management Practices

CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROLS (BEST MANAGEMENT PRACTICES) DURING CONSTRUCTION OF THIS PROJECT.

EROSION MUST BE MINIMIZED AND SEDIMENTS MUST BE REMOVED FROM CONSTRUCTION SITE RUN-OFF IN ORDER TO PROTECT DOWNSTREAM AREAS. DURING ALL CONSTRUCTION, EROSION AND SEDIMENTATION SHOULD BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

- 1. LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
- 2. REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE.
- 3. MINIMIZE AREA TO BE CLEARED AND GRUBBED.
- PROTECT EXPOSED SLOPES WITH PLASTIC OR SYNTHETIC MULCHES.
- 5. INSTALL CATCH BASIN INSERTS OR EQUIVALENT IN ALL PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES AND IN ALL EXISTING CATCH BASINS THAT WILL RECEIVE RUN-OFF FROM THE SITE.
- 6. A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL AND ANY
  STOCKPILES OF MATERIAL TO BE USED OR REMOVED FROM SITE. (LOCATION TO BE
  DETERMINED)
- 7. A VISUAL INSPECTION SHALL BE DONE DAILY ON SEDIMENT CONTROL MEASURES AND CLEANED OF ANY ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OFF SITE AS PER THE REQUIREMENTS OF THE CONTRACT.
- 8. SEDIMENT CONTROL BARRIERS MAY ONLY BE REMOVED TEMPORARILY WITH APPROVAL OF CONTRACT ADMINISTRATOR TO ACCOMMODATE CONSTRUCTION OPERATIONS.
  ALL AFFECTED BARRIERS MUST BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A SIGNIFICANT RAINFALL EVENT ANTICIPATED (>10mm) UNLESS A NEW DEVICE HAS BEEN INSTALLED TO PROTECT EXISTING STORM AND SANITARY SEWER SYSTEMS, OR DOWNSTREAM WATERCOURSES.
- 9. NO REFUELING OR CLEANING OF EQUIPMENT IS PERMITTED NEAR ANY EXISTING WATERWAY.
- 10. CONTRACTOR SHALL REMOVE SEDIMENT CONTROL MEASURES WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE MEASURE(S) IS NO LONGER REQUIRED. NO CONTROL MEASURES SHALL BE PERMANENTLEY REMOVED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
- 11. THE CONTRACTOR SHALL PERIODICALLY, OR WHEN REQUESTED BY THE CONTRACT ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENTS AS REQUIRED.
- 12. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
- 13. STORMWATER SWALES TO BE COVERED WITH HYDRO-SEED AND MULCH.

8	REVISED AS PER CITY COMMENTS		WAJ	SGG	20.12.15
7	REVISED AS PER CITY COMMENTS		WAJ	SGG	20.11.06
6	REVISED AS PER CITY COMMENTS		WAJ	SGG	20.09.18
5	5 REVISED AS PER CITY COMMENTS		WAJ	SGG	20.07.10
4	REVISED AS PER CITY COMMENTS		WAJ	SGG	19.10.15
3	REVISED PER NEW SITE PLAN		WAJ	SGG	18.10.26
2	ISSUED FOR COORDINATION		SL	SGG	18.08.22
1	ISSUED FOR SITE PLAN CONTROL		WAJ	DCT	16.10.14
Revision			Ву	Appd.	YY.MM.DD
File Name: 160401234-DB		SL	SGG	SL	18.06.20
		Dwn.	Chkd.	Dsgn.	YY.MM.DD

## Permit-Seal

Client/Project
TC UNITED GROUP
800 INDUSTRIAL AVENUE

APARTMENT BUILDING 244 FOUNTAIN PLACE OTTAWA, ONTARIO

## Title

DWG. No.: W22

FOR 150 - 400mm (NOMINAL DIAMETER) WATERMAINS, WHERE THE DEPTH OF COVER IS LESS THAN 2400mm

3. DEPTH OF COVER LESS THAN 1200mm REQUIRES SPECIAL DESIGN

5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

4. STAGGER JOINTS OF MULTIPLE SHEETS.

 $2. \ \mathsf{IN} \ \mathsf{PROXIMITY} \ \mathsf{OF} \ \mathsf{MAINTENANCE} \ \mathsf{HOLES}, \ \mathsf{CULVERTS}, \ \mathsf{CATCHBASINS}, \ \mathsf{ETC.}, \ \mathsf{INSULATION} \ \mathsf{SHALL} \ \mathsf{BE} \ \mathsf{PLACED} \ \mathsf{PER} \ \mathsf{DETAIL} \ \mathsf{W23}$ 

THERMAL INSULATION FOR

WATERMAINS IN SHALLOW

EROSION CONTROL PLAN AND DETAIL SHEET

Project No.	Scale	_
160401234	as shown	
Drawing No.	Sheet	Revision
		0

C/DS-1 4

D07-12-16-0150

1. THE FULL CURB DEPTH SHALL BE CARRIED THROUGH THE DEPRESSED ACCESS CROSSING

If AN EXTRUSION CURBING MACHINE IS USED, THE EXPANSION BITUMINOUS MATERIAL AND THE #15 DOWELS ARE TO BE PLACED AT THE END OF THE EXTRUSION.

. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 25mm

DUMMY JOINTS SHALL BE 25mm DEEP, FRONT, BACK AND TOP OF SECTION AT 4m SPACING OR MATCH JOINTING WHERE SIDEWALK IS ADJACED

CONCRETE BARRIER CURB

FOR GRANULAR BASE PAVEMENT

(MODIFIED OPSD-600.110)

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

CONCRETE BARRIER CURB

2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.

. EXPANSION AND DUMMY JOINTS AS PER SC5.

3. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%...

2. A CONCRETE SUPPORT IS REQUIRED WHEN BUILT ADJACENT TO THE SIDEWALK.

4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

6. FOR DEPRESSED CURB AT ENTRANCES USE 250.