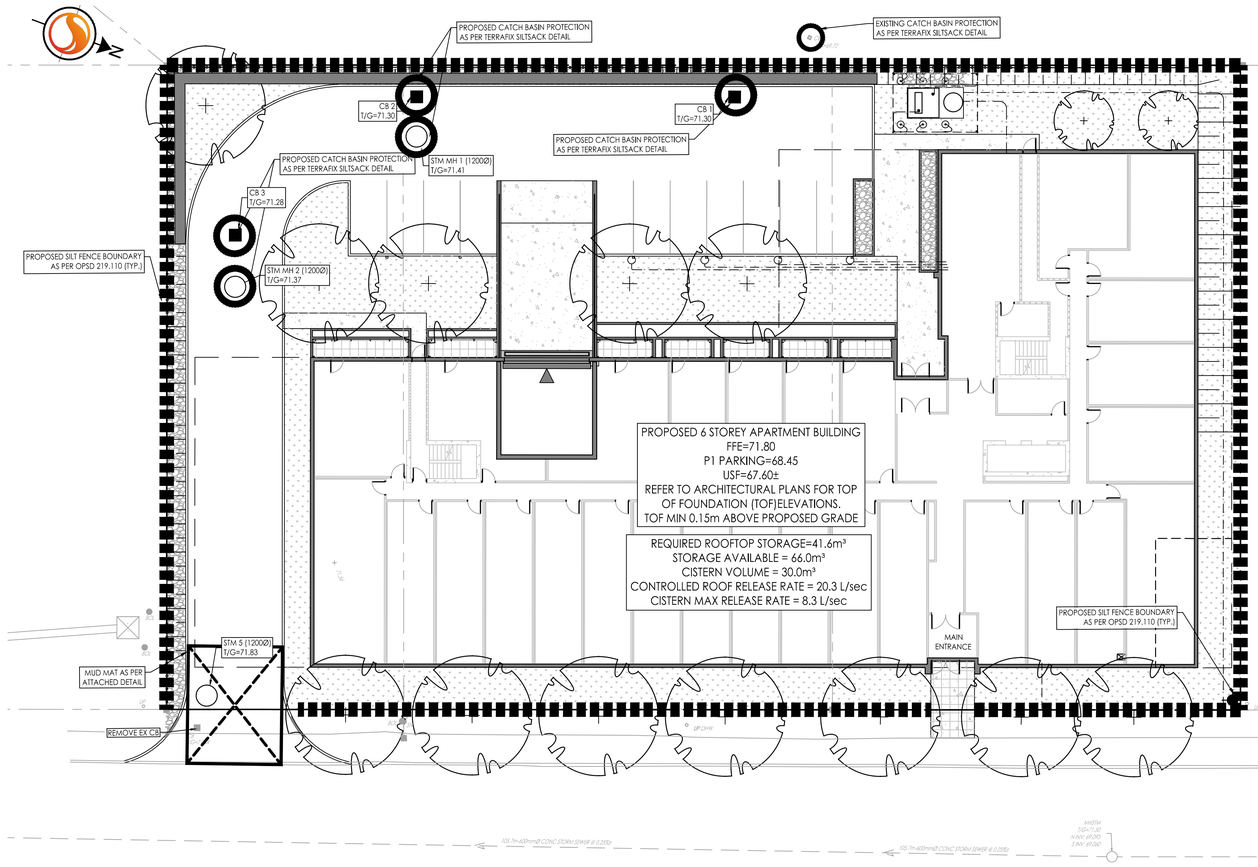
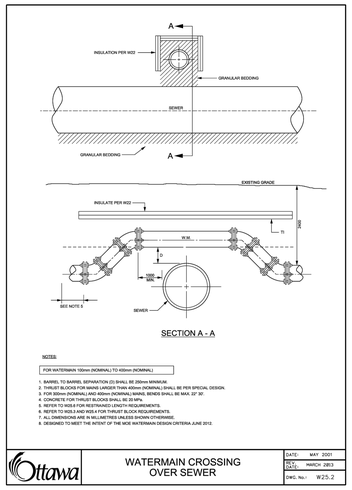
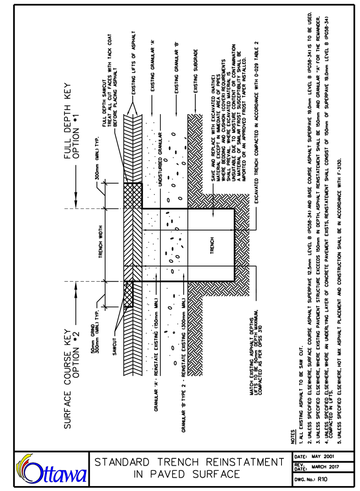
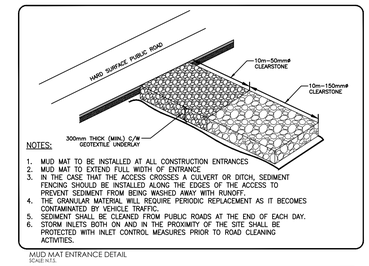
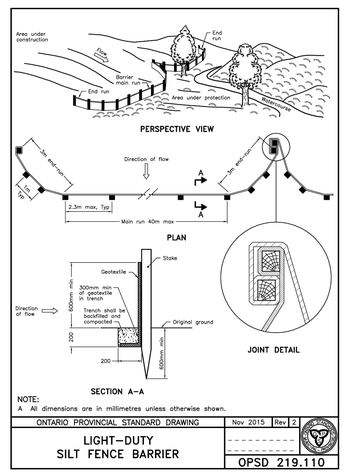


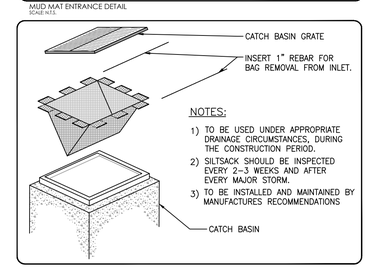




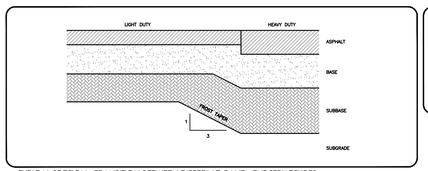


MUD MAT ENTRANCE DETAIL
SCALE N.T.S.

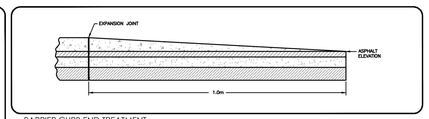




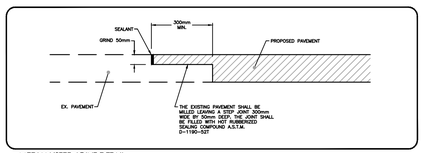
ROADSIDE CATCH BASIN PROTECTION DETAIL: TERRAFIX SILTSACK
SCALE N.T.S.



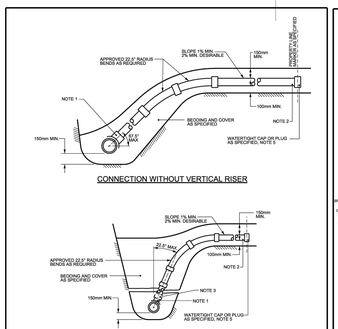
TYPICAL SECTION - TRANSITION BETWEEN DIFFERING PAVEMENT STRUCTURES
SCALE: N.T.S.



BARRIER CURB END TREATMENT
SCALE: N.T.S.



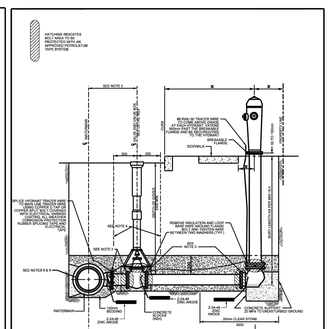
MEDIAN/STEP JOINT DETAIL
SCALE: N.T.S.



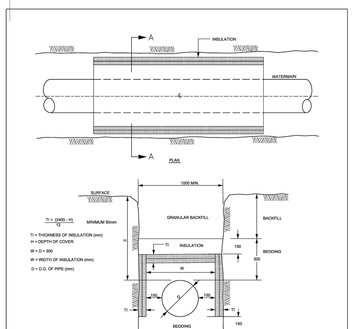
NOTES:
1. DIA. DIAMETERS OF SERVICE CONNECTIONS THAT HAVE NOMINAL DIAMETERS NO GREATER THAN 50% OF THE NOMINAL DIAMETER OF THE MAIN SEWER PIPE SHALL BE MADE USING A BELL END INSERT AS PER S11.2 OR AN APPROVED RUBBER GASKETED INSERT INSTALLED ABOVE THE SPRING LINE.
2. SANITARY SERVICES TO BE 100mm AND STORM SERVICES TO BE 100mm FOR NEW RESIDENCES UNLESS SPECIFIED OTHERWISE. SERVICE PIPE AND BENDS TO BE APPROVED CLAY PIPE OR PLASTIC SEWER PRODUCTS UNLESS SPECIFIED OTHERWISE.
3. APPROVED CONNECTIONS TO BE MADE WITHOUT DISTURBING THE MAIN SEWER PIPE AND ARE ALLOWED TO MAIN SEWERS UP TO 3m DEEP. WHERE APPROVED CONNECTIONS TO SEWERS OVER 3m DEEP ARE ALLOWED, SPECIAL CONSTRUCTION CONTROLS INCLUDED SETTLEMENT JOINTS.
4. VERTICAL RISER SHALL BE SAME AS SERVICE PIPE UNLESS OTHERWISE SPECIFIED.
5. CAP OR PLUG AT THE PROPERTY LINE SHALL BE ADEQUATELY BRACED TO WITHSTAND TESTING PRESSURE.
6. FOR NON-CONNECTIONS, STUB PLUGGED WITH WATERTIGHT CONNECTION BEFORE THAT PIPE IS LAID.
7. ALL PIPE, FITTINGS, FLEXIBLE COUPLINGS AND JOINTS TO BE WATERTIGHT. JOINTS MAY BE LUBED.
7. APPROVED CUT-IN TOOL MUST BE USED FOR FIELD MADE CONNECTIONS.
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

N.T.S.

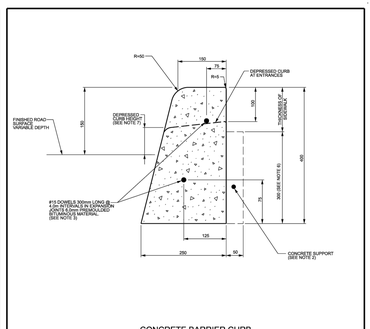
Ottawa
SEWER SERVICE CONNECTIONS FOR RIGID MAIN SEWER PIPE (MODIFIED OPSD-1006.010)
DATE: MARCH 2008
REV. DATE:
DWG. No.: S11


MATCHING INSULATION TO BE PROVIDED ON ALL PIPES AND FITTINGS WITHIN 1.5m OF HYDRANT
SEE NOTE 2
INSULATION
WATERMAIN
MIN. 1.5m
MIN. 1.0m
MIN. 1.0m
MIN. 1.5m
SEE NOTE 3
SEE NOTE 4
SEE NOTE 5
SEE NOTE 6
SEE NOTE 7
SEE NOTE 8
SEE NOTES 9 & 11
SEE NOTE 10
WATERMAIN
LEAD AS SPECIFIED
NOTES
FOR ALL WATERMAINS
1. SEE DETAIL W20 FOR HYDRANTS IN DITCH AREAS.
2. THE HYDRANT LEAD SHALL BE INSULATED WITH 50mm OF XPS FOR A DISTANCE OF 1.5m OF CENTRELINE. RETAINING/RESTRAINING DEVICES FOR HYDRANTS SHALL BE INSULATED TO THE SAME DEPTH AS THE LEAD. BOLT HEADS SHOULD BE DIRECTED TO ENSURE THE RETAINING/RESTRAINING DEVICES TO BE ATTACHED.
3. THE HYDRANT LEAD SHALL BE INSULATED WITH 50mm OF XPS PRIOR TO INSTALLATION. REFER TO MMS-19.4 AND F-4014.
4. SEE W17 FOR THRUST BLOCK REQUIREMENTS.
5. SEE W11.0 FOR WATERMAIN INSULATION REQUIREMENTS IN THIN AREAS.
6. T 550 F-4014 FOR HYDRANT LOCATION REQUIREMENTS.
7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
8. ON A TEMPORARY BASE FOR 300mm WATERMAINS USE 300mm OR 450mm BOLT OVER BELL, AND A SHORT TIED WITH 16mm STRUT AT MIDDLE OF BARREL. ON A PERMANENT BASE FOR 300mm WATERMAINS USE 300mm OR 450mm BOLT OVER BELL, AND A SHORT TIED WITH 16mm STRUT AT MIDDLE OF BARREL.
9. FOR ALL 400mm WATERMAINS USE ADJACENT THRUSTBLOCKS. FOR SPECIAL FITTINGS WITH THE 100mm OUTLET ON TOP.
10. TO ACTIVELY DRAIN THE 1.7 HYDRANTS WILL 2 TIMES AS REQUIRED LEADS ACROSS EACH INFRASTRUTING JOINT OR CONNECTION TO ENSURE THE HYDRANT DRAINS TO THE ACTIVE WATERMAIN.
11. ALL BOTTOM U BOLTS SHALL BE IN ACCORDANCE WITH MMS-19.10.
12. TRACER WIRE BOLT CONNECTIONS TO BE COMPLETED PER M88.
13. TRACER WIRE SPLICES TO BE COMPLETED PER M87.

Ottawa
HYDRANT INSTALLATION - NEW CONSTRUCTION
DATE: MAY 2001
REV. DATE: MARCH 2013
DWG. No.: W19



Ottawa
THERMAL INSULATION FOR WATERMAINS IN SHALLOW TRENCHES
DATE: MAY 2001
REV. DATE: MARCH 2013
DWG. No.: W22

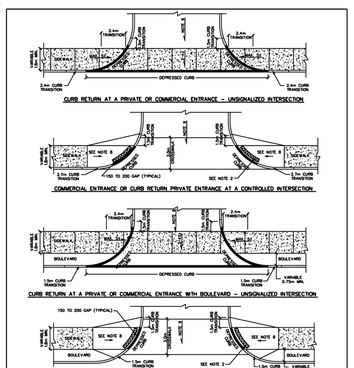


CONCRETE BARRIER CURB

NOTES:
1. THE FULL CURB DEPTH SHALL BE CARRIED THROUGH THE DEPRESSED ACCESS CROSSING.
2. A CONCRETE SUPPORT IS REQUIRED WHEN BUILT ADJACENT TO THE SIDEWALK.
3. IF AN EXTRUSION CURBING MACHINE IS USED, THE EXPANSION BITUMINOUS MATERIAL AND THE #10 DOWELS ARE TO BE PLACED AT THE END OF THE EXTRUSION.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
5. DUMMY JOINTS SHALL BE 25mm DEEP, FRONT, BACK AND TOP OF SECTION AT 4m SPACING OR MATCH JOINTING WHERE SIDEWALK IS ADJACENT.
6. FOR DEPRESSED CURB AT ENTRANCES USE 250.
7. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 25mm.

N.T.S.

Ottawa
CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD-600.110)
DATE: JANUARY 2003
REV. DATE: MARCH 2019
DWG. No.: SC1.1



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. APPROVED 610 x WIDTH OF CURB RAMP (1500MM) TACTILE WALKING SURFACE INDICATOR. TO BE PLACED AS PER SC7.1 AND SUBMITTED AS PER SC7
3. CURB DETAILS SEE SC1.1, SC1.2 AND SC1.3
4. SIDEWALK DETAILS SEE SC2 AND SC3.
5. CURB RAMPS AS PER SC5 AND SC7.
6. CONTROLLED MEANS SIGNALIZED OR A 4-WAY STOP INTERSECTION.
7. SUBJECT TO AVOIDANCE OF MEDIANS, CROSSWALK LINES TO BE CENTRED ON THE CURB RAMP.
8. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%.
9. MAXIMUM SLOPE VARIES, SEE PRIVATE APPROACH BYLAW

Ottawa
CURB RETURN ENTRANCES
DATE: MARCH 2007
REV. DATE: MARCH 2017
DWG. No.: SC7.1

Stantec

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Legend

- PROPOSED SILT FENCE BOUNDARY AS PER OPSD 219.110
- PROPOSED CONSTRUCTION FENCE AS PER DETAIL.
- PROPOSED CATCH BASIN PROTECTION AS PER TERRAFIX SILTSACK DETAIL
- PROPOSED MUD MAT LOCATION
- PROPOSED STORM SEWER MANHOLE
- PROPOSED CATCHBASIN

Best Management Practices

CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROLS (BEST MANAGEMENT PRACTICES) DURING CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

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.
4. 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. CONTRACTOR SHALL INSTALL MUD MATS AT ALL CONSTRUCTION ENTRANCES TO THE SITE.
14. STORMWATER SWALES TO BE COVERED WITH HYDRO-SEED AND MULCH.

Revision	By	Appd.	YY.MM.DD
5 REVISED PER CITY COMMENTS	MJS	DT	24.02.29
4 REVISED PER CITY COMMENTS	MJS	DT	24.01.10
3 SITE CONTROL	TM	PM	23.08.30
2 SITE CONTROL	TM	PM	23.04.25
1 ISSUED FOR COORDINATION	TM	-	23.04.04

File Name: 160401787	SB	TM	TM	23.04.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
D. C. THIFFAULT
100186107
2024-03-07
PROVINCE OF ONTARIO

Client/Project
PROJECT1 STUDIO

1184 CUMMINGS AVENUE

GLOUCESTER, ON

Title
EROSION CONTROL

Project No. 160401787

Scale 1:200 (0 2 6 10m)

Drawing No. ECDS-1

Sheet 4 of 7

Revision 5

PLAN # 19081

D07-12-23-0044

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2024/03/04 4:42 PM By: Sharp, Victor

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