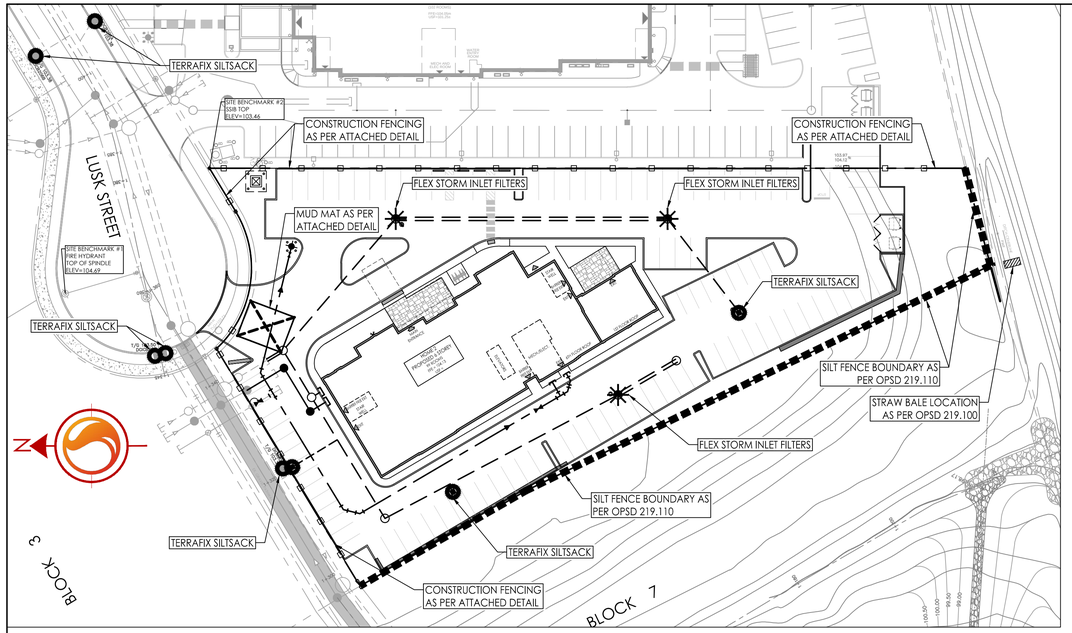
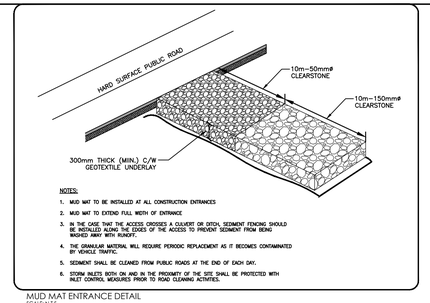
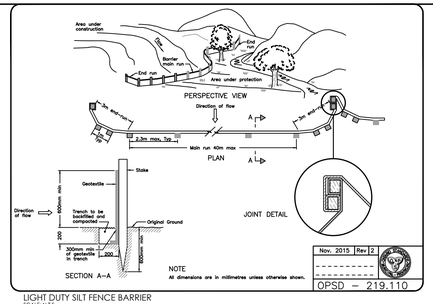




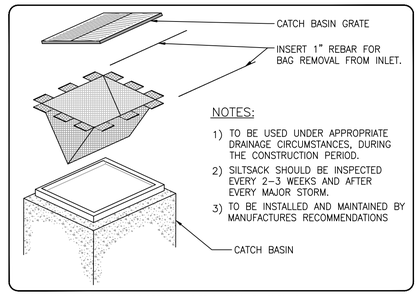
NOTES:

1. MUD MAT TO BE INSTALLED AT ALL CONSTRUCTION ENTRANCES
2. MUD MAT TO EXTEND FULL WIDTH OF ENTRANCE
3. IN THE CASE THAT THE ACCESS CROSSES A CULVERT OR DITCH, SEDIMENT FENCING SHOULD BE INSTALLED ALONG THE EDGES OF THE ACCESS TO PREVENT SEDIMENT FROM BEING WASHED AWAY WITH RUNOFF.
4. THE GRANULAR MATERIAL WILL REQUIRE PERIODIC REPLACEMENT AS IT BECOMES CONTAMINATED BY VEHICLE TRAFFIC.
5. SEDIMENT SHALL BE CLEANED FROM PUBLIC ROADS AT THE END OF EACH DAY.
6. STORM INLETS BOTH ON AND IN THE PROXIMITY OF THE SITE SHALL BE PROTECTED WITH INLET CONTROL MEASURES PRIOR TO ROAD CLEANING ACTIVITIES.

MUD MAT ENTRANCE DETAIL
SCALE: N.T.S.



LIGHT DUTY SILT FENCE BARRIER
SCALE: N.T.S.



NOTES:

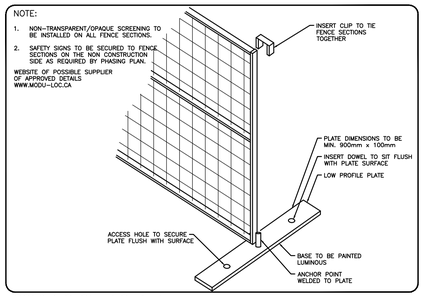
1) TO BE USED UNDER APPROPRIATE DRAINAGE CIRCUMSTANCES, DURING THE CONSTRUCTION PERIOD.
2) SILTSACK SHOULD BE INSPECTED EVERY 2–3 WEEKS AND AFTER EVERY MAJOR STORM.
3) TO BE INSTALLED AND MAINTAINED BY MANUFACTURES RECOMMENDATIONS

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

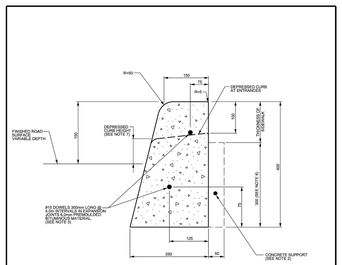
NOTE:

1. NON–TRANSPARENT/OPAQUE SCREENING TO BE INSTALLED ON ALL FENCE SECTIONS.
2. SAFETY SIGNS TO BE SECURED TO FENCE SECTIONS ON THE NON CONSTRUCTION SIDE AS REQUIRED BY PHASING PLAN.

WEBSITE OF POSSIBLE SUPPLIER
OF APPROVED DETAILS
WWW.MODU–LOC.CA



CONSTRUCTION FENCE DETAIL
SCALE: N.T.S.



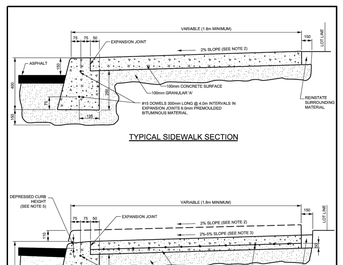
CONCRETE BARRIER CURB

NOTES:

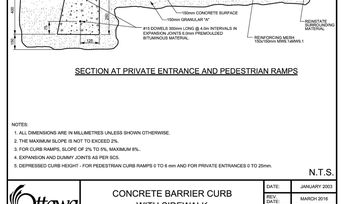
1. THE FULL CURB DEPTH SHALL BE CARRIED THROUGH THE DEPRESSED ACCESS CROSSING.
2. A CONCRETE SUPPORT IS REQUIRED WHEN BUILT ADJACENT TO THE SIDEWALK.
3. IF AN EXTRUSION CURBING MACHINE IS USED:
   THE EXPANSION BITUMINOUS MATERIAL AND THE #10 DOWELS ARE TO BE PLACED AT THE END OF THE EXTRUSION.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
5. DUMMY JOINTS SHALL BE 25mm DEEP, FRONT, RIGHT AND TOP OF SECTION AT 2m SPACING.
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 2014 · DWG. No.: SC1.1



TYPICAL SIDEWALK SECTION



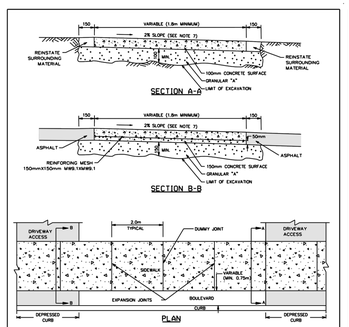
SECTION AT PRIVATE ENTRANCE AND PEDESTRIAN RAMPS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
3. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%.
4. EXPANSION AND DUMMY JOINTS AS PER SC5.
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 25mm.

N.T.S.

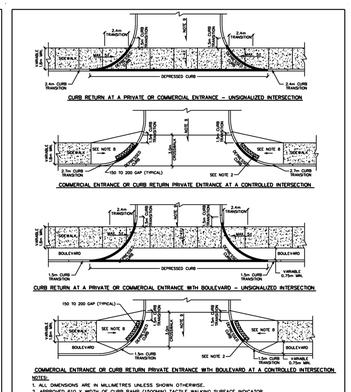
Ottawa	CONCRETE BARRIER CURB WITH SIDEWALK	DATE: JANUARY 2003 · REV. DATE: MARCH 2016 · DWG. No.: SC1.4



NOTES:

1. CONCRETE AND GRANULAR "A" IS TO BE INCREASED TO 150mm AT THE ENTRANCE AND 150x150mm WWR 1 x WWR 1 REINFORCING MESH IS TO BE PLACED MID DEPTH WITHIN DRIVEWAY ACCESS.
2. TRANSVERSE EXPANSION JOINTS ARE REQUIRED AT THE ENDS, THE MIDPOINT, AT INTERVALS OF 4m MAXIMUM, AND ALSO TO ISOLATE OBSTRUCTIONS FROM SIDEWALK, HYDRANTS, POLES, BUILDINGS, ETC.
3. WHEN THE OVERALL SIDEWALK WIDTH EXCEEDS 2.5m, A LONGITUDINAL CONSTRUCTION JOINT SHALL BE CREATED AT ITS MIDPOINT.
4. EDGES AND JOINTS ARE TO BE FINISHED WITH a 75mm EDGING TOOL.
5. ALL CONCRETE SIDEWALKS ARE TO HAVE A BROOM FINISH UNLESS OTHERWISE SPECIFIED.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
7. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
8. INSTALL DUMMY TRANSVERSE JOINTS AS REQUIRED SO THERE IS A MAXIMUM SPACING OF 2m BETWEEN ALL JOINTS.
9. SIDEWALK NOT TO BE DEPRESSED ACROSS DRIVEWAY ACCESSES.
10. EXPANSION AND DUMMY JOINTS AS PER SC5

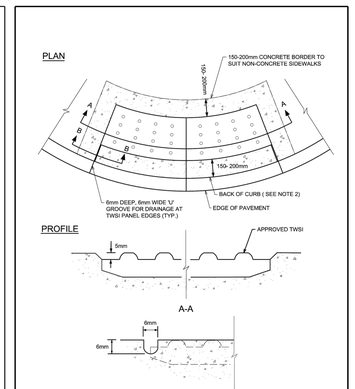
Ottawa	TYPICAL CONCRETE SIDEWALK IN BOULEVARD	DATE: MAY 2001 · REV. DATE: MARCH 2016 · DWG. No.: SC4



NOTES:

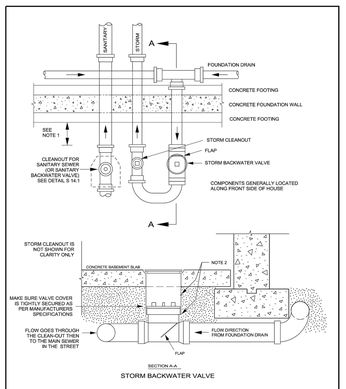
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. APPROXIMATE 610 x 610mm OF CURB RAMP (1500mm) TACTILE WALKING SURFACE INDICATOR, RADIUS TO MATCH CURB. DRAIN GROOVES AS PER SC3.
3. CURB DETAILS SEE SC1.1, SC1.2 AND SC1.3.
4. SIDEWALK DETAILS SEE SC2 AND SC3.
5. CURB RAMPS AS PER SC6 AND SC7.
6. ALL DIMENSIONS ARE FOR "+" OR "T" 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 2013 · DWG. No.: SC7.1



N.T.S.

Ottawa	TWSI DETAIL	DATE: MARCH 2015 · REV. DATE: MARCH 2016 · DWG. No.: SC7.3



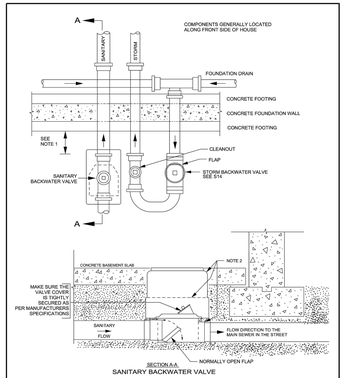
STORM BACKWATER VALVE

NOTES:

1. BACKWATER VALVE, CLEAN-OUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE THESE COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING/WALL DURING THE PROCESS
2. JOINTS BETWEEN THE SLEEVE AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

N.T.S.

Ottawa	FOUNDATION DRAIN BACKWATER VALVE INSTALLATION	DATE: DEC. 2002 · REV. DATE: MARCH 2011 · DWG. No.: S14



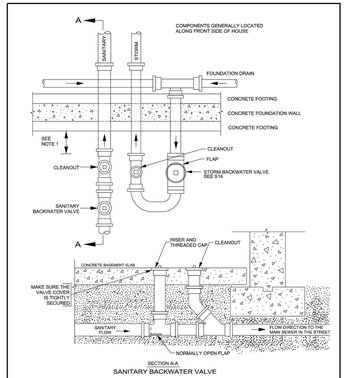
SANITARY BACKWATER VALVE

NOTES:

1. BACKWATER VALVE, CLEAN-OUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE THESE COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING/WALL DURING THE PROCESS
2. JOINTS BETWEEN THE SLEEVE AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

N.T.S.

Ottawa	SANITARY BACKWATER VALVE INSTALLATION TYPE 1	DATE: MARCH 2010 · REV. DATE: MARCH 2011 · DWG. No.: S14.1



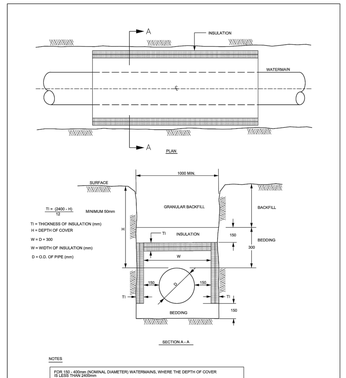
SANITARY BACKWATER VALVE

NOTES:

1. BACKWATER VALVE, CLEANOUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE THESE COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING/WALL DURING THE PROCESS
2. JOINTS BETWEEN CLEANOUT AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

N.T.S.

Ottawa	SANITARY BACKWATER VALVE INSTALLATION TYPE 2	DATE: MARCH 2011 · REV. DATE: MARCH 2016 · DWG. No.: S14.2

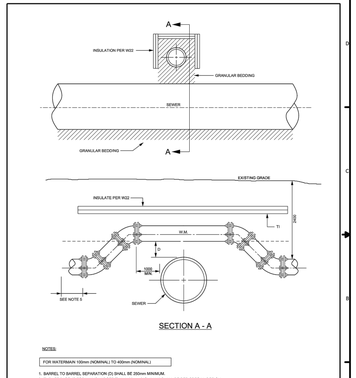


NOTES

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

1. INCREMENTS OF THICKNESS SHALL BE ADJUSTABLE TO 25mm.
2. IN PROXIMITY OF MAINTENANCE HOLES, CULVERTS, CATCHBASINS, ETC., INSULATION SHALL BE PLACED PER DETAIL W23
3. DEPTH OF COVER LESS THAN 1200mm REQUIRES SPECIAL DESIGN
4. STAGGER JOINTS OF MULTIPLE SHEETS.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

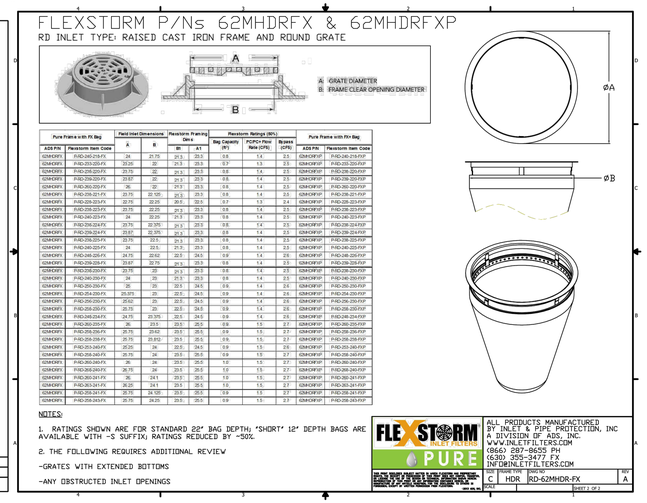
Ottawa	THERMAL INSULATION FOR WATERMAINS IN SHALLOW TRENCHES	DATE: MAY 2001 · REV. DATE: MARCH 2013 · DWG. No.: W22



NOTES:

1. BARREL TO BARREL SEPARATION (S) SHALL BE 250mm MINIMUM.
2. FOR WATERMAINS 100mm (NOMINAL) TO 400mm (NOMINAL) SHALL BE PER SPECIAL DESIGN.
3. FOR WATERMAINS 450mm (NOMINAL) AND ABOVE (NOMINAL) SEWER SHALL BE MAX. 22° 30'.
4. CONCRETE FOR THRUST BLOCKS SHALL BE 20 MPa.
5. REFER TO W26.6 FOR RESTRAINED LENGTH REQUIREMENTS.
6. REFER TO W26.5 AND W26.4 FOR THRUST BLOCK REQUIREMENTS.
7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
8. DESIGNED TO MEET THE INTENT OF THE WDE WATERMAIN DESIGN CRITERIA JUNE 2012.

Ottawa	WATERMAIN CROSSING OVER SEWER	DATE: MAY 2001 · REV. DATE: MARCH 2013 · DWG. No.: W25.2



Pure Frame with ITX Bag		Field Inlet Dimensions		Flexstorm Framing Dims		Flexstorm Ratings (90%)			Pure Frame with ITX+ Bag	
		A	B	B1	A1	Bag Capacity (ft³)	PCPO+ Filter Rate (CFS)	Bypass (CFS)		
ADS P/N	Flexstorm Item Code								ADS P/N	Flexstorm Item Code
62MHDRF	F-RD-MEDRX-FX	24	21.75	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-24-218-FXP
62MHDRF	F-RD-203-220-FX	20.25	22	21.3	25.3	0.7	1.3	2.3	62MHDRFXP	F-RD-203-220-FXP
62MHDRF	F-RD-203-225-FX	20.25	22	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-203-225-FXP
62MHDRF	F-RD-209-220-FX	23.62	22	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-209-220-FXP
62MHDRF	F-RD-362-220-FX	36	22	21.3	25.3	0.9	1.4	2.5	62MHDRFXP	F-RD-362-220-FXP
62MHDRF	F-RD-209-221-FX	23.75	22.125	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-209-221-FXP
62MHDRF	F-RD-209-223-FX	22.75	22.25	20.5	23.3	0.7	1.3	2.4	62MHDRFXP	F-RD-209-223-FXP
62MHDRF	F-RD-209-223-FX	23.75	22.25	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-209-223-FXP
62MHDRF	F-RD-240-223-FX	24	22.25	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-240-223-FXP
62MHDRF	F-RD-224-224-FX	22.75	22.375	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-224-224-FXP
62MHDRF	F-RD-229-224-FX	23.87	22.375	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-229-224-FXP
62MHDRF	F-RD-209-225-FX	22.75	22.5	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-209-225-FXP
62MHDRF	F-RD-240-225-FX	24	22.5	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-240-225-FXP
62MHDRF	F-RD-248-225-FX	24.75	22.62	22.3	24.5	0.8	1.4	2.6	62MHDRFXP	F-RD-248-225-FXP
62MHDRF	F-RD-229-225-FX	23.87	22.75	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-229-225-FXP
62MHDRF	F-RD-229Z-230-FX	23.75	23	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-229-230-FXP
62MHDRF	F-RD-240-230-FX	24	23	21.3	25.3	0.8	1.4	2.5	62MHDRFXP	F-RD-240-230-FXP
62MHDRF	F-RD-250-230-FX	25	23	22.5	24.5	0.9	1.4	2.6	62MHDRFXP	F-RD-250-230-FXP
62MHDRF	F-RD-254-230-FX	25.375	23	22.5	24.5	0.9	1.4	2.6	62MHDRFXP	F-RD-254-230-FXP
62MHDRF	F-RD-256-230-FX	25.62	23	22.5	24.5	0.9	1.4	2.6	62MHDRFXP	F-RD-256-230-FXP
62MHDRF	F-RD-258-230-FX	25.75	23	22.5	24.5	0.9	1.4	2.6	62MHDRFXP	F-RD-258-230-FXP
62MHDRF	F-RD-248-234-FX	24.75	23.375	22.5	24.5	0.9	1.4	2.6	62MHDRFXP	F-RD-248-234-FXP
62MHDRF	F-RD-262-235-FX	26	23.5	23.5	25.5	0.8	1.5	2.7	62MHDRFXP	F-RD-262-235-FXP
62MHDRF	F-RD-258-235-FX	25.75	23.62	23.5	25.5	0.9	1.5	2.7	62MHDRFXP	F-RD-258-235-FXP
62MHDRF	F-RD-258-236-FX	25.75	23.75	23.5	25.5	0.9	1.5	2.6	62MHDRFXP	F-RD-258-236-FXP
62MHDRF	F-RD-250-240-FX	25	24	23.5	25.5	0.9	1.5	2.7	62MHDRFXP	F-RD-250-240-FXP
62MHDRF	F-RD-258-240-FX	25.75	24	23.5	25.5	0.9	1.5	2.7	62MHDRFXP	F-RD-258-240-FXP
62MHDRF	F-RD-262-240-FX	26	24	23.5	25.5	1.0	1.5	2.7	62MHDRFXP	F-RD-262-240-FXP
62MHDRF	F-RD-262-241-FX	26.75	24	23.5	25.5	1.0	1.5	2.7	62MHDRFXP	F-RD-262-241-FXP
62MHDRF	F-RD-263-241-FX	26	24.1	23.2	26.5	1.0	1.5	2.7	62MHDRFXP	F-RD-263-241-FXP
62MHDRF	F-RD-263-241-FX	26.25	24.1	23.5	25.5	1.0	1.5	2.7	62MHDRFXP	F-RD-263-241-FXP
62MHDRF	F-RD-258-241-FX	25.75	24.125	23.5	25.5	0.9	1.5	2.7	62MHDRFXP	F-RD-258-241-FXP
62MHDRF	F-RD-258-243-FX	25.75	24.25	23.5	25.5	0.9	1.5	2.7	62MHDRFXP	F-RD-258-243-FXP

Ottawa	FLEXSTORM P/Ns 62MHDRFX & 62MHDRFXP	DATE: MARCH 2015 · REV. DATE: MARCH 2016 · DWG. No.: SC7.2

Stantec

Stantec Consulting Ltd.
400 - 1331 Clyde Avenue
Ottawa ON
Tel. 613.722.4420
www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Legend

- PROPOSED SILT FENCE BOUNDARY AS PER OPSD 219.110
- PROPOSED CONSTRUCTIN FENCE AS PER DETAIL.
- PROPOSED STRAW BALE LOCATION AS PER OPSD 219.100
- PROPOSED CATCH BASIN PROTECTION AS PER DETAIL.
- PROPOSED CATCH BASIN MH PROTECTION AS PER FLEX STORM INLET FILTERS DETAIL.
- PROPOSED MUD MAT LOCATION
- PROPOSED VALVE BOX
- PROPOSED VALVE CHAMBER
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER MANHOLE
- 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 PERMANENTLY 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