

DETAIL 2

N.T.S.

TREATMENT SYSTEM (PUMPING EQUIPMENT, DIVERSION, SETTLEMENT

PONDS...ETC) IS FUNCTIONING PROPERLY.

INTERCEPTOR SWALE (TYP.)

DURING CONSTRUCTION

CONSTRUCTION PHASING SCHEDULE

PHASE 1 - "CUT & FILL" WORKS :

STAGE 1: SEDIMENT AND EROSION CONTROL WORKS

INSTALL CONSTRUCTION ACCESS/STONE MUD MAT AT WINSTON CHURCHILL BOULEVARD AS SHOWN ON PLAN ESC-1. INSTALL PERIMETER SILT FENCES AS SHOWN ON PLAN ESC-1. 3. INSTALL THE TEMPORARY EROSION AND SEDIMENT POND AS PER DETAIL ON PLAN ESC-1.

H. COMPLETE SITE CLEARING (CLEARING AND GRUBBING). TREE REMOVALS WITHIN THE OCTOBER 1ST TO MARCH 30TH TIMING STRIP TOPSOIL AND STOCKPILE.

CONSTRUCT THE TEMPORARY INTERCEPTOR SWALES AND ESC SWM OUTLET TO WATERCOURSE STABILIZE AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE IMMEDIATELY AS WORK PROGRESSES.

SEDIMENT AND EROSION CONTROL GENERAL NOTES:

. CONTRACTOR/OWNER TO COMPLY WITH SEDIMENT AND EROSION CONTROL By-law #46-2019 2. CONTRACTOR/OWNER TO COMPLY WITH MUD TRACKING BY-LAW #69-2002.

- FOLLOWING MUST BE CONSTRUCTED: A. MUD MAT WHERE INDICATED, B. TEMPORARY SWALES WITH ROCK FLOW CHECK DAMS, C. SILT FENCE WHERE INDICATED
-). TREE PRESERVATION . TEMPORARY POND AS SHOWN ON DRAWING, WITH TURBIDITY CURTAIN.

4. SILT CONTROL FENCE SHOULD BE INSTALLED AROUND PERIMETER OFFSET 0.60m INSIDE THE PROPERTY OF THE SITE AND MAINTAINED UNTIL THE COMPLETION OF 5. CATCHBASIN SILT TRAPS ARE TO BE INSTALLED AT ALL CATCHBASINS AND CATCHBASIN MANHOLE LOCATIONS UPON 13. NO CONSTRUCTION ACTIVITY OR MACHINERY SHALL BE COMPLETION OF THE LANDSCAPING. 6. ACCUMULATED SILT TO BE REMOVED OFF SITE PRIOR TO REMOVAL OF THE SILT CONTROL FENCE. CONTRACTOR TO INSTALL AND MAINTAIN MUD MAT AT CONSTRUCTION ACCESS IN ORDER TO PREVENT MUD TRACKING ONTO ADJACENT ROADS. MUD MAT TO BE A MINIMUM 20.0m LONG AND 3.0m WIDE AND SHALL CONSIST

8. CONTRACTOR TO CLEAN ADJACENT ROADS ON A REGULAR BASIS TO THE SATISFACTION OF THE TOWN OF OAKVILLE OR HALTON REGION, WHICHEVER IS APPLICABLE. THE ROAD SHALL BE SCARPED AND FLUSHED DAILY AS REQUIRED OR AS DIRECTED BY THE TOWN OR REGION. 9. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSPECTED WEEKLY AND IMMEDIATELY AFTER RAINFALL EVENTS FOR RIPS AND TEARS, BROKEN STAKES, BLOW OUTS (STRUCTURAL FAILURE) AND ACCUMULATION OF SEDIMENT. THE SILT FENCE MUST BE FIXED AND/OR REPLACED IMMEDIATELY WHEN DAMAGED. SEDIMENT MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE. 10. THE OWNER WILL SEED, MULCH AND MAINTAIN THE ENTIRE SITE IF A BUILDING PERMIT IS NOT ISSUED. 11. THE OWNER SHALL IMMEDIATELY SEED, MULCH AND STABILIZE ARES THAT HAVE BEEN DISTURBED AND OUR OTHERWISE UNFINISHED. 12. UPON COMPLETION OF LANDSCAPING ALL SEDIMENT

AND EROSION CONTROL MEASURES SHALL BE REMOVED. BEYOND THE SILT FENCE. 14. ALL TOPSOIL STOCKPILES SHALL BE SURROUNDED WITH A SEDIMENT CONTROL FENCE. 15. WASHING-WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADS. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

conducted in favourable weather. The contractor is responsible for removing all

obstruction (i.e. fuel tanks, portable toilets, machinery, etc.), from the 100 year*

Floodplain in the case of a large storm event.

STAGE 1: PRIOR TO INSTALLATION OF BELOW GROUND WORKS:

CONSTRUCTION AND STABILIZATION OF ALL DISTURBED AREAS.

ESC-1 AND CITY OF MISSISSAUGA STD NO. 2970.010.

COMPLETE AND VEHICLE MUD TRACKING HAS ENDED

WORKS PROCEED TOWARD SOUTH END OF SITE.

PRE-GRADE, BELOW FINAL ASPHALT.

MATERIAL NOT TO BE PERMITTED.

* or site-specific storm event

construction equipment and materials that would have potential to cause a spill or

14. Crossing an active watercourse or wetland by equipment, vehicles, personnel, is

15. All in—water and near water works will be conducted in the dry and must be

staged with appropriate erosion and sediment controls. Plan the work accordingly with

16. An after—hours contact number is to be visibly posted on—site for emergencies.

All the plans should have name and contact info of the person responsible for ESC

. INSTALL ALL SILT FENCE ALONG TOP OF BANK OF WATERCOURSE AND SITE PERIMETER,

CONSTRUCTION MUD MATS TO BE PLACED AT NORTH SITE ENTRANCE, AS PER PLAN

TEMPORARY ESC BASIN AND INTERIM ESC SWALES TO BE CONSTRUCTED. TEMPORARY

COMPLETE WATERCOURSE CROSSING WORKS, INCLUDING TEMPORARY BY-PASS PUMPING

5. FILL BROUGHT ON SITE TO BE PLACED AND COMPACTED IMMEDIATELY. STOCK PILING OF

. INSTALL BELOW GROUND SERVICES. CATCHBASINS TO BE EQUIPPED WITH TEMPORARY

OF CONSTRUCTION AND STABILIZATION OF SITE. BULKHEAD TO BE PROVIDED IN ALL INLET

AND OUTLETS FROM THE INFILTRATION TRENCHES UNTIL CONSTRUCTION AND STABILIZATION

10. COMPLETE BELOW GROUND SERVICE INSTALLATION. SITE ELEVATIONS TO BE BROUGHT TO

9. TEMPORARY ESC BASIN AND DIVERSION SWALES TO BE DECOMMISSIONED AS SITE

INFILTRATION TRENCHES TO BE CONSTRUCTED AND KEPT OFF-LINE UNTIL COMPLETION

AS DETAILED ON ESC-1 PLAN. SILT FENCE TO REMAIN IN PLACE UNTIL COMPLETION OF

VEHICLE STORAGE AND REFUELING AREA TO BE PROVIDED NEAR CONSTRUCTION

ENTRANCE, AS SHOWN ON PLAN ESC-1. SIGNAGE TO BE VISIBLY POSTED IDENTIFYING

OUTLET, COMPLETE WITH CONTROLS TO BE INSTALLED, DISCHARGING TO WATERCOURSE.

OF CREEK FLOWS, AS DETAILED ON PLAN ESC-1. STABILIZE DISTURBED CREEK AREA.

SEDIMENT CONTROL DEVICE AS PER CITY OF MISSISSAUGA STD. NO 2930.040.

CVC ESC - Site-Specific Notes 13. The contractor shall monitor weather forecasts to ensure that the works will be

1. Be advised that the Credit Valley Conservation Authority may, at any time, withdraw this permission, if, in the opinion of the Authority, the conditions of the permit are not being complied with. This approval does not exempt the property owner/applicant/agent from the provisions of any other Federal, Provincial or Municipal statutes, regulations or by—laws, or any rights under common law. 2. Following installation of the proposed ESC measures, a qualified agent of the proponent, preferably an Environmental Monitor, will conduct regular site visits to

proponent, CVC, and any other appropriate parties. 3. All construction activities, including maintenance procedures, will be controlled to prevent the entry of debris, sediments, or other deleterious products to the watercourse or wetland. Equipment maintenance will be conducted a minimum of 30 metres from the watercourse/wetland.

These control measures shall be monitored and maintained or revised to ensure water <u>ESC STAGING NOTES:</u> quality targets are being achieved. 5. Please refer to ESC Guideline for Urban Construction (December 2006) for the design and design alteration of ESC measures. 6. ESC measures will be implemented prior to, and maintained during the

measures are to be evaluated on a weekly basis and after any storm event. Any repairs required are to be rectified immediately. The Erosion and Sediment Control (ESC) Plan is a dynamic document, which may be subject to change or modifications as a result of site developments or changes on site. Any deviation from approved plans must be designed by a qualified professional. 8. Additional ESC materials (i.e. silt fence, filter socks, straw bales, clear stones,

10. Disturbed areas will be minimized to the extent possible, and temporarily or permanently stabilized or restored as the work progresses. All disturbed ground left inactive for more than 30 days shall be stabilized using appropriate erosion control measures and an appropriate native non—invasive seed mix or with the final approved 11. Any Sediment Spill from the site should be reported to Ministry of Environment

- PROVIDE TEMPORARY STABILIZATION FOR AREAS THAT ARE BEING
- ALL ESC POND SLOPES AND INTERCEPTOR SWALES TO BE EFFECTIVELY STABILIZED WITH VEGETATION PRIOR TO RECEIVING ANY WATER FLOWS TO PREVENT SOIL EROSION. TEMP SEEDING TO CONSIST OF ANNUAL RYE GRASS, 25 kg/ha. ALTERNATE MEASURE TO BE PROVIDED OUTSIDE OF GROWING SEASON, SUCH
- SITE TO BE STABILIZED BEFORE RECEIVING FLOWS • MECHANICAL SEEDING TO BE APPLIED TO VEGETATE ANY DISTURBED SURFACE THAT IS TO BE LEFT EXPOSED FOR
- ARE AT FINAL GRADE. THE LOWER HALF OF THE TOPSOIL PILES SHALL BE IMMEDIATELY STABALIZED USING GROUNDCOVER VEGETATION WITH A NON-INVASIVE SPECIES, IE: SEEDED COMPOST OR SEEDED BIODEGRADABLE MATS. TEMP SEEDING MIX TO CONSIST OF ANNUAL RYE GRASS 25kg/ha, OR EROSION AND SEDIMENT

EMPORARY SEDIMENT BASIN DECOMMISSIONING NOTES:

- ONCE SITE WORKS HAVE BEEN SUBSTANTIALLY STABILIZED, THE • THE ESC BASIN ARE TO BE PUMPED THROUGH ENVIROBAGS UNTIL EMPTY. ENVIROBAGS TO BE LOCATED A MINIMUM OF 30m FROM ANY CREEK/WETLAND AND IN A WELL VEGETATED AREA. SEDIMENT AND DEBRIS TO BE REMOVED FROM THE BOTTOM OF
- ESC BASIN TO BE FILLED TO REQUIRED PRE-GRADE. FILL MATERIAL AND COMPACTION TO BE COMPLETED TO THE SATISFACTION OF GEOTECHNICAL RECOMMENDATIONS.

POND TOP

SIDE SLOPES TO BE TOPSOIL AND SEEDEI

PRIOR TO ACCEPTING FLOWS

 IF DEWATERING IS NECESSARY, ENSURE DEWATERING ACTIVITIES ARE PUMPED INTO A FILTER BAG PRIOR TO RELEASE INTO ANY WATERCOURSE/DRAINAGE FEATURE. FILTER BAG IS TO BE PLACED A MINIMUM OF 30 M FROM THE WATERCOURSE/POND ON STABLE. WELL VEGETATED GROUND. THE DEWATERING ACTIVITIES IS TO BE MONITORED TO ENSURE THE FILTER DISCHARGE IS CLEAN AND FREE OF SUSPENDED SOLIDS.

EDIMENT BASIN SUMMARY TABLE

TRIBUTARY AREA (ha) | 11.92

Wet Vol.—Required (m³) | 1490

Wet Vol.-Provided (m³) | 1549

Dry Vol.—Required (m³) 1490

Avg 48hr Disch. (m³/s)| 0.0097

DRAWDOWN TIME (h) 47.5

WEIR CAPACITY (m3/s) 1.40

EMERGENCY OVERFLOW WEIR

Dry Vol.-Provided (m³)

BOTTOM

POND TOP

| Wet Water Level

ry Water Level

Ory Storage Depth

ORIFICE SIZE (mm)

100 yr FLOW (m3/s)

WEIR LENGTH (m)

ESC BASIN

1674

93.00

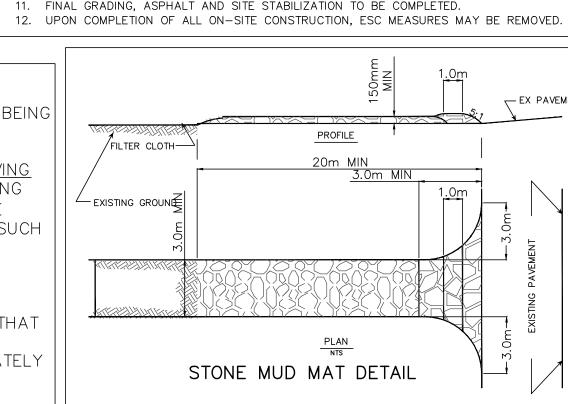
93.60

94.00

93.70

5.0

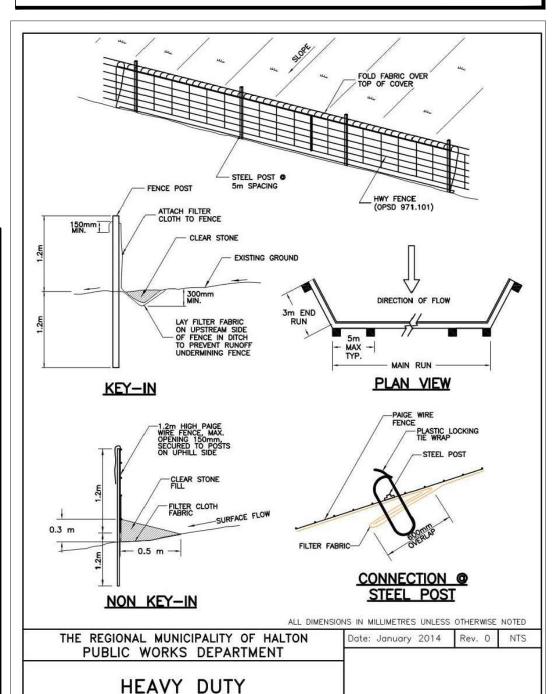
0.30



STONE SIZE - USE 50mm STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. LENGTH - AS REQUIRED, BUT NOT LESS THAN 15m (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 10m MIN. LENGTH WOULD APPLY.) WIDTH - 3m MINIMUM, BUT NOT LESS THAN THE WIDTH AT POINTS WHERE INGRESS OR

FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. FILTER CLOTH WILL NOT BE REQUIRED ON SINGLE FAMILY RESIDENCE LOT. ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL

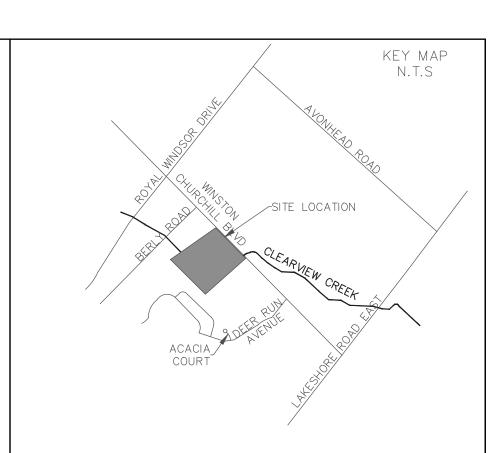
EDIMENT SPILLEĎ, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF WAY MUST BE REMOVED IMMEDIATELY. WASHING — WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT—OF—WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



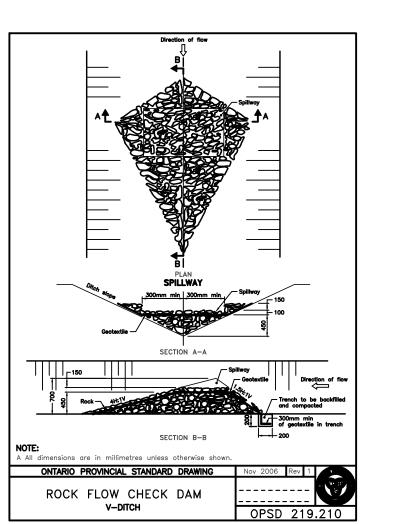
REGION STANDARD

RH 200.040

SILT FENCE BARRIER



REFER TO PLAN C-1 FOR CONSTRUCTION DETAILS AND SECTIONS.



 ALL IN-WATER AND NEAR WATER WORKS ARE TO BE COMPLETED BETWEEN JULY TO MARCH

100 YEAR AND REGIONAL FLOODLINE INFORMATION TAKEN FROM CVC FLOOD HAZARD MAP FOR CLEARVIEW CREEK WATERSHED, SHEET 3

LEGEND

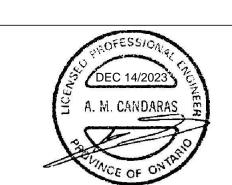
EXISTING ELEVATION EXISTING ELEVATION PROPOSED ELEVATION PROPOSED TOP OF CURB ELEVATION $\times 120.00$ TW PROPOSED TOP OF WALL ELEVATION $\times 120.00$ BW PROPOSED BOTTOM OF WALL ELEVATION \times 120.00 SW PROPOSED SWALE ELEVATION REGULATORY FLOODLINE — SECTION NUMBER

93.90 REGIONAL FLOOD ELEVATION 100YEAR FLOOD ELEVATION ROCK CHECK DAM

STONE MUD MAT

INTERCEPTOR SWALE HEAVY DUTY DOUBLE SILT FENCE WITH NON-WOVEN GEOTEXTILE AND STRAW BALES BETWEEN FENCES

ESC DRAINAGE BOUDNARY



DEC 14/23 RPA FOURTH SUBMISSION DEC 19/22 FP THIRD SUBMISSION DEC 15/21 FP SECOND SUBMISSION APR 9/21 FP FIRST SUBMISSION REVISIONS a.m.candaras associates inc. consulting engineers 8551 Weston rd., suite 203 Woodbridge ont. L4L 9R4 **** 905-850-8020 Fax 905-850-8099 Email: civil@amcai.com

> 772 WINSTON CHURCHILL BLVD.

SPA 1601.029/01 Region of Peel No. C602647 TOWN OF OAKVILLE

EROSION AND SEDIMENT CONTROL CONTROL PLAN - STAGE 1

REGION OF HALTON

SCALE: 1:750 | DATE: MAR 2021 PROJ No. **2060** DRAWN: F.P. CHK'D: A.M.C. DESIGNED: A.M.C. SHEET 6 OF 6