

**KEY PLAN N.T.S.**

**LEGEND:**

- +301.08 EXISTING ELEVATION
- 188.5 EXISTING CONTOUR
- STORM MANHOLE
- CATCHBASIN
- BH7 BOREHOLE LOCATION
- TP-4 TEST PIT LOCATION
- - - STRUCTURAL ENVELOPE
- ▨ ENVIRONMENTAL PROTECTION
- ▨ REFORESTED / PROTECTION AREA
- DOUBLE SILT FENCE
- - - CONSTRUCTION FENCE
- ◇ ROCK CHECK DAM

**NOTE:**  
THIS PLAN HAS BEEN PREPARED IN CONJUNCTION WITH THE FUNCTIONAL SERVICING REPORT TO DEMONSTRATE FEASIBILITY OF THE PROPOSED DEVELOPMENT IN CONJUNCTION WITH THE DRAFT PLAN OF SUBDIVISION APPLICATION. DETAILED DESIGNS WILL BE PREPARED AT THE DETAILED SUBDIVISION ENGINEERING DESIGN STAGE.

**METRIC:**  
DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METERS AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

**SURVEY NOTE:**

1. BEARINGS ARE GRID BEARINGS AND ARE DERIVED FROM GPS OBSERVATIONS AND ARE REFERRED TO THE UTM PROJECTION, ZONE 17, NAD 83 (CSRS-2010) ADJUSTMENT.
2. DISTANCES SHOWN ON THIS PLAN ARE ADJUSTED GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY MULTIPLYING BY AN AVERAGED COMBINED SCALE FACTOR OF 0.999971.
3. COORDINATES ON THIS PLAN ARE UTM, ZONE 17, NAD83 (CSRS-2010) ADJUSTMENT AND ARE BASED ON GPS OBSERVATIONS FROM A NETWORK OF PERMANENT GPS REFERENCE STATIONS.
4. THIS SURVEY WAS COMPLETED ON AUGUST 3, 2017 BY VAN HARTEN SURVEYING INC.

NO.	DATE	REVISIONS	BY
2	AUG 07/20	AS PER TOWN COMMENTS	D.G.
1	OCT 25/19	AS PER TOWN, REGION AND NVCA COMMENTS	D.G.

**PRELIMINARY**



**ESTATE RESIDENTIAL SUBDIVISION MOUNT PLEASANT ROAD TOWN OF CALEDON REGION OF PEEL TOWN FILE NO.: 21T-18-002C & RZ-18-006C**

**PRELIMINARY EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1:750	DATE OF DWG. MAY 17, 2018	PROJECT NO. 17122
DRAWN BY: E.T.	DRAWING NO. <b>ESC-1</b>	
CHKD BY: D.G.		

**EROSION & SEDIMENT CONTROL NOTES**

1. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT.
2. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND IN PROPER WORKING ORDER PRIOR TO THE COMMENCEMENT OF EARTHWORKS, THE EXACT LOCATION TO BE DETERMINED IN THE FIELD.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER AND CLEANED PERIODICALLY.
4. ALL CONSTRUCTION VEHICLES SHALL EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ACCESS.
5. HYDROSEEDING TO BE APPLIED BY AN APPROVED CONTRACTOR. SEED MIX TO BE OBTAINED FROM LOCAL SEED SOURCE.
6. MONITORING OF THE GERMINATION OF THE HYDROSEED IS REQUIRED TO IDENTIFY ANY BARE AREAS THAT MAY RESULT. CONTRACTOR TO RE-SOW ALL BARE AREAS TO ENSURE SURFACES ARE ADEQUATELY STABILIZED.
7. ALL AREAS DISTURBED DUE TO CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE MUNICIPALITY AND NVCA. DISTURBED AREAS TO BE STABILIZED AS DIRECTED BY THE CONSULTANT ENGINEER AND TO THE SATISFACTION OF THE MUNICIPALITY IF LEFT UN-WORKED WITHIN 30 DAYS.
8. CONTRACTOR TO CLEAN AND MAINTAIN THE EXISTING ROADS ON A REGULAR BASIS FREE FROM DIRT AND MUD.

**CONSTRUCTION STAGING NOTES**

**STAGE 1: TEMPORARY DIVERSION CHANNEL**

1. INSTALL SILT FENCE AROUND THE WORK AREA AND A MUD MAT AT CONSTRUCTION ENTRANCE.
2. INSTALL CULVERTS FOR TEMPORARY WATERCOURSE CROSSING. PUMP FLOW AROUND WORK AREA TO PERMIT CULVERT INSTALLATION IN DRY CONDITIONS.
3. INSTALL COFFERDAM TO ISOLATE WORK AREA.

**STAGE 2: CHANNEL CONSTRUCTION**

1. FILLING WITHIN THE WORK AREA TO PROCEED ONCE THE TEMPORARY CULVERTS FOR THE CONSTRUCTION ACCESS HAVE BEEN INSTALLED AND THE WORK AREA HAS BEEN DE-WATERED.
2. INSTALL SILT FENCE AROUND WORK AREA.
3. DE-WATER THE WORK AREA TO PROVIDE FOR CONSTRUCTION IN DRY CONDITIONS. WATER PUMPED FROM THE WORK AREA IS TO BE TREATED BY A FILTER BAG.
4. STRIP TOPSOIL FROM THE WORK AREA AND STOCKPILE ON SITE.
5. CONSTRUCT THE CHANNEL BY CUTTING AND COMPACTING MATERIAL IN FILL AREAS. IMPORT FILL MATERIAL TO COMPLETE TO CHANNEL GRADE. FILL TO BE COMPACTED TO ENGINEERED FILL STANDARDS IN LAYERS NOT EXCEEDING 300MM.
6. FINE GRADE THE CHANNEL AND PLACE TOPSOIL.
7. INSTALL WATLES, LIVE STAKES, BASKING LOGS AND RAPTOR POLES.
8. INSTALL TREES AND SHRUBS AND STABILIZE SURFACES WITH HYDROSEED AS PER MIX SEED SPECIFIED ON THE PLANTING PLAN.

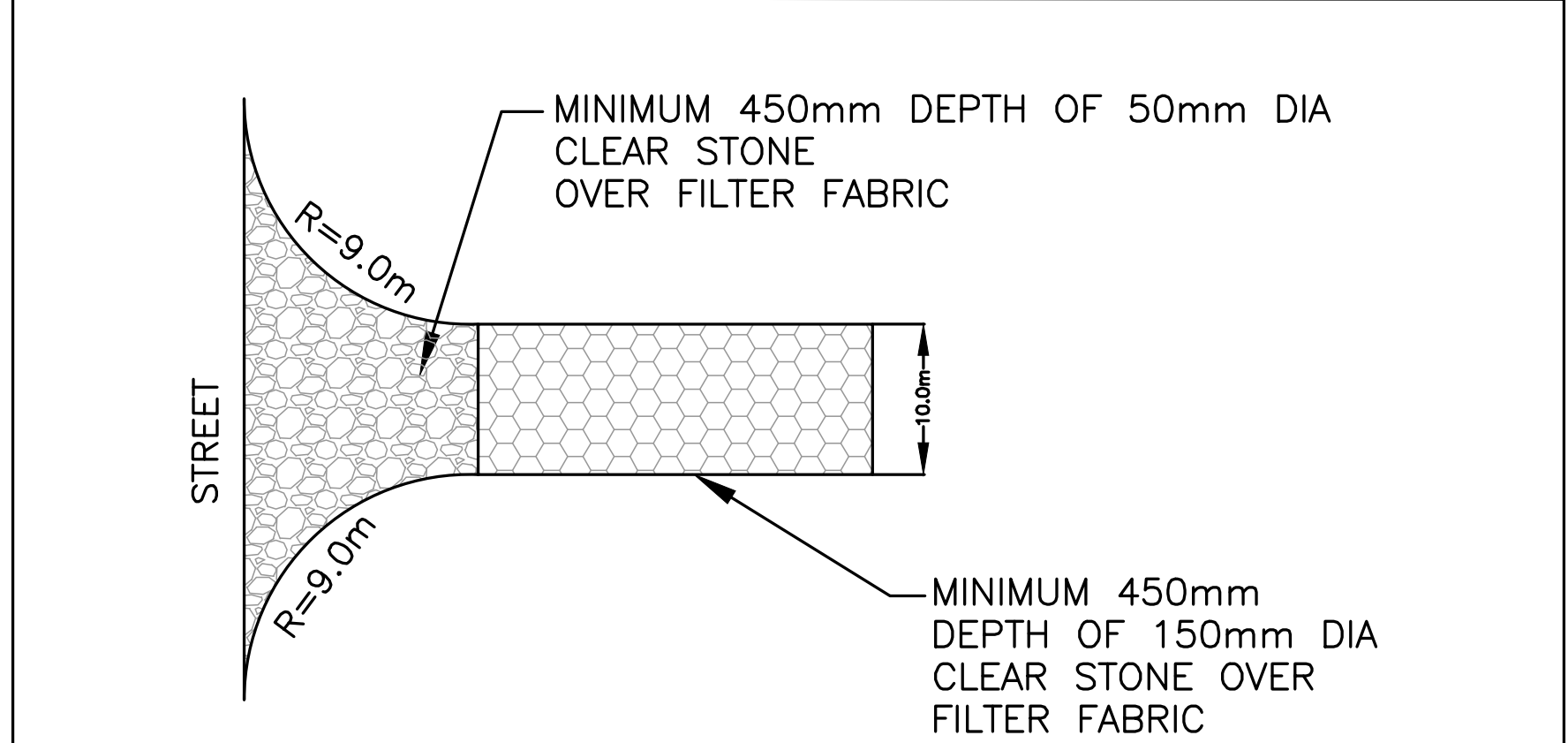
**CONSTRUCTION STAGING NOTES**

**STAGE 3: CHANNEL TIE-IN & FILLING OF DEVELOPABLE AREA**

1. INSTALL SILT FENCE AROUND WORK AREA.
2. INSTALL COFFER DAM TO BLOCK UPSTREAM WATERCOURSE FLOW AND COMMENCE BY-PASS PUMPING AS PER WATERCOURSE BY-PASS PUMPING NOTES.
3. DE-WATER THE TIE-IN WORK AREA TO PROVIDE FOR CONSTRUCTION IN DRY CONDITIONS. WATER PUMPED FROM THE WORK AREA IS TO BE TREATED BY A FILTER BAG.
4. STRIP TOPSOIL FROM THE TIE-IN WORK AREA AND STOCKPILE ON SITE.
5. CONSTRUCT THE TIE-IN CHANNEL BY CUTTING AND COMPACTING MATERIAL IN FILL AREAS. IMPORT FILL MATERIAL TO COMPLETE TO CHANNEL GRADE. FILL TO BE COMPACTED TO ENGINEERED FILL STANDARDS IN LAYERS NOT EXCEEDING 300MM.
6. FINE GRADE THE TIE-IN CHANNEL AND PLACE TOPSOIL.
7. INSTALL WATLES, LIVE STAKES, BASKING LOGS AND RAPTOR POLES.
8. INSTALL TREES AND SHRUBS AND STABILIZE SURFACES WITH HYDROSEED AS PER MIX SEED SPECIFIED ON THE PLANTING PLAN.
9. ONCE THE CHANNEL TIE-INS ARE COMPLETE REMOVE THE COFFER DAM AND PUMPS AND INTRODUCE FLOW TO THE CHANNEL.
10. STRIP TOPSOIL FROM THE DEVELOPABLE AREA OF THE SITE AND STOCKPILE.
11. IMPORT FILL, PLACE AND COMPACT WITHIN THE DEVELOPABLE AREA TO THE SPECIFIED ELEVATIONS. COMPACT TO ENGINEERED FILL STANDARDS IN LAYERS NOT EXCEEDING 300MM.
12. PROVIDE TEMPORARY STABILIZATION FOR THE LOT BY SPREADING 100MM DEPTH OF TOPSOIL AND APPLY HYDROSEED.

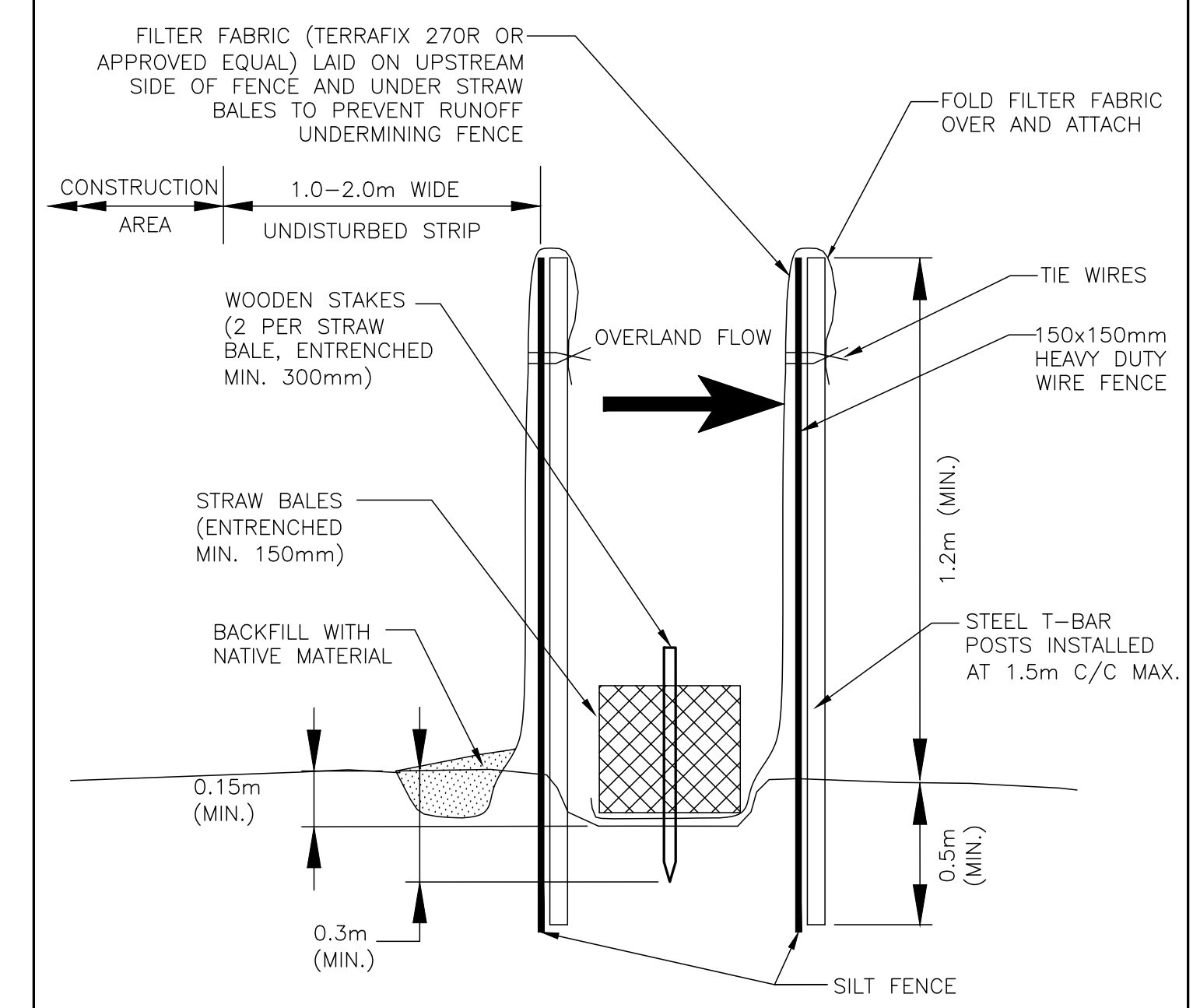
**WATERCOURSE DIVERSION NOTES**

1. PRIOR TO COMMENCING WORK RELATED TO THE TIE-IN OF THE PERMANENT CHANNEL, THE CONTRACTOR IS TO HAVE ALL MATERIAL, SUPPLIES AND EQUIPMENT IN THE STAGING AREA AND ORGANIZED IN ORDER TO MINIMIZE THE DURATION OF THE INSTALLATION.
2. THE WEATHER FORECAST IS TO BE CONSULTED TO ENSURE THAT THE WORK IS SCHEDULED DURING A PERIOD OF DRY WEATHER.
3. THE WATERCOURSE IS TO BE BLOCKED IMMEDIATELY UPSTREAM OF THE TIE-IN AREA WITH A COFFERDAM. UPSTREAM FLOW IS TO BE PUMPED AROUND THE WORK AREA AND DISCHARGED DOWNSTREAM.
4. THE WORK AREA MUST BE DE-WATERED TO PROVIDE FOR CONSTRUCTION IN DRY CONDITIONS. WATER PUMPED FROM THE WORK AREA IS TO BE TREATED BY A FILTER BAG.
5. THE INLET PUMP HEAD MUST BE WRAPPED IN FILTER FABRIC, COVERED WITH A SMALL GAUGE SCREEN AND SITUATED ON A BED OF RIP RAP.
6. A BACK UP PUMP IS TO BE KEPT ON SITE AT ALL TIMES DURING PUMPING ACTIVITIES.
7. IF WATER DIVERSION PUMPING IS TO CONTINUE AFTER NORMAL WORKING HOURS, A TECHNICIAN IS TO BE ASSIGNED TO MONITOR AND ENSURE THAT THE SYSTEM IS FUNCTIONING PROPERLY AT ALL TIMES.



- NOTE:**
1. MUD MAT TO BE INSTALLED AT THE TEMPORARY CONSTRUCTION ACCESS LOCATION.
  2. GRANULAR MATERIAL TO BE PERIODICALLY REPLACED AS IT BECOMES CONTAMINATED

**MUD MAT DETAIL N.T.S.**



**DOUBLE SILT FENCE DETAIL SCALE N.T.S.**

**TOWN OF CALEDON PLANNING RECEIVED August 26, 2020**