

# TORONTO AND REGION **Conservation**

*for The Living City*

*Member of Conservation Ontario*

## ***EAST DON TRAIL***

Consulting Services for East Don Trail

### East Don Trail - Phase 2 Drawing Index:

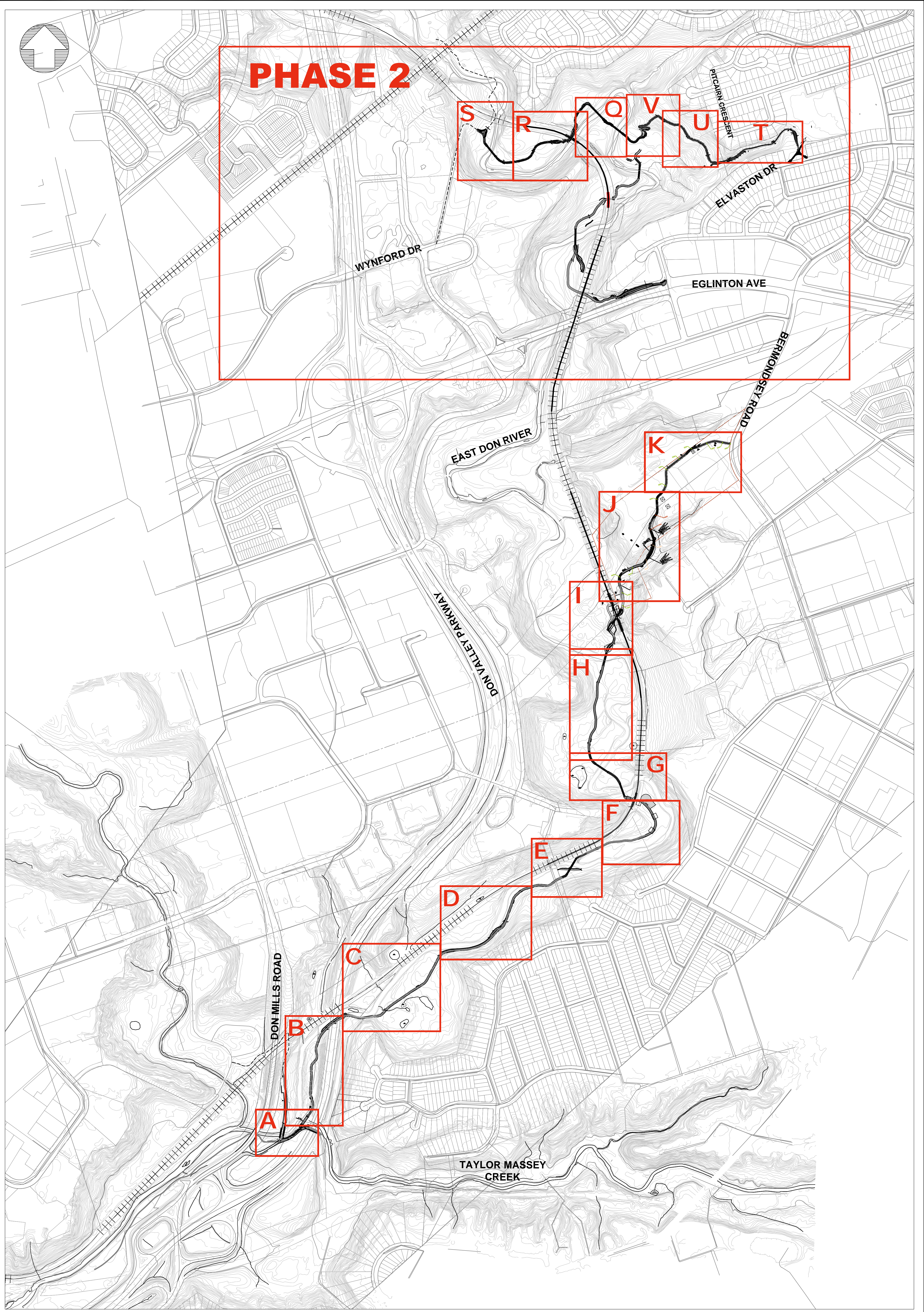


Description	Drawing No.
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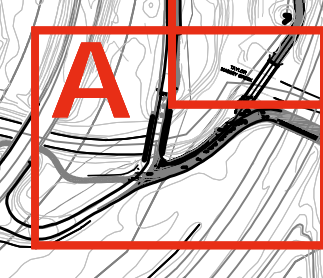
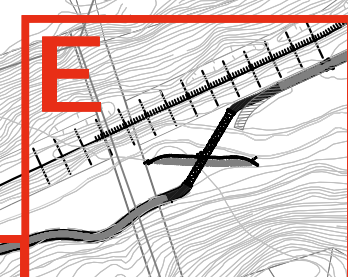
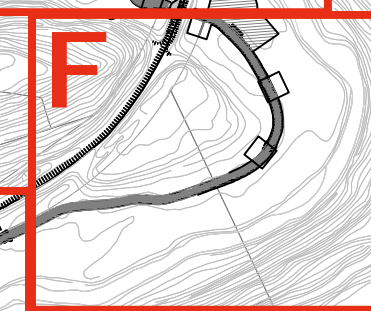
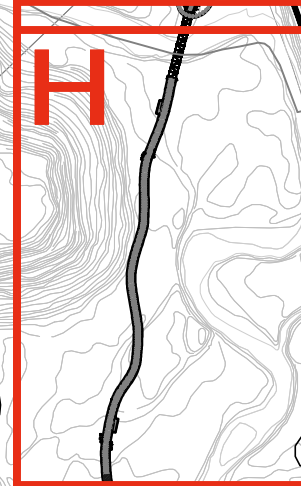
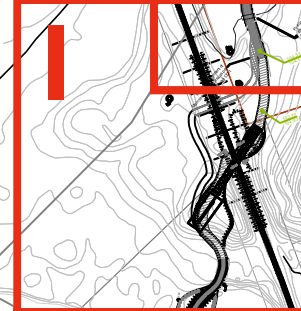
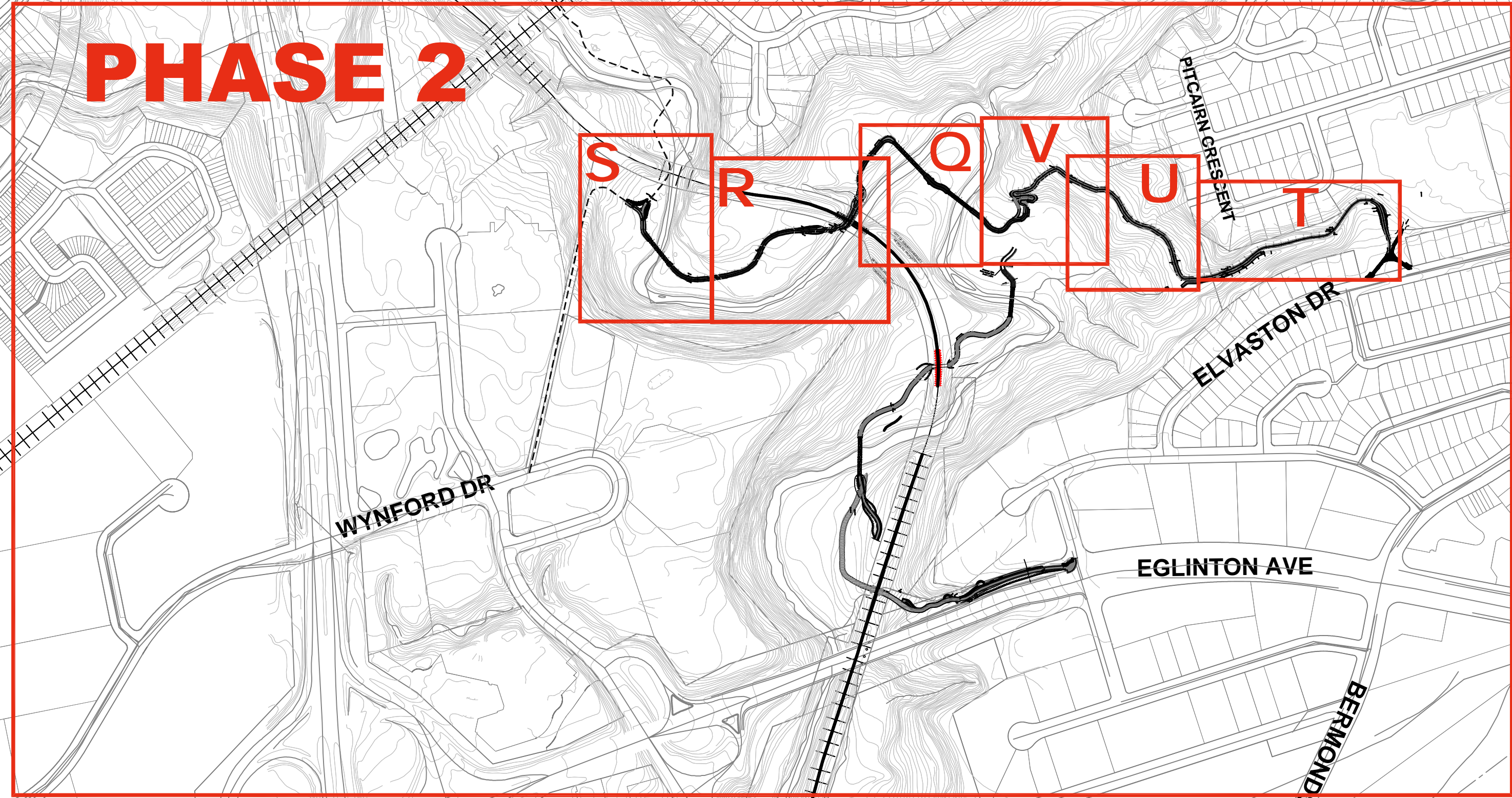
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# PHASE 2



### LEGEND

- RAIL LINE
- EXISTING TRAIL
- PROPERTY LINE
- PROPOSED TRAIL

NO.	DATE	BY	REVISIONS
6	08/02/19	RA/OC	REISSUED FOR REVISED ALIGNMENT
5	25/01/19	RA/OC	REISSUED FOR TRCA REALIGNMENT
4	09/11/18	RA/OC	REISSUED FOR CONSTRUCTION
3	08/03/18	RA/OC	ISSUED FOR TRCA PERMIT
2	08/01/18	RA/OC	ISSUED FOR CONSTRUCTION
1	24/10/17	RA/OC	ISSUED FOR TENDER

THE POSITION OF THE POLE LINES, CONDUITS, WATERMANS, SEWERS, AND OTHER UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.

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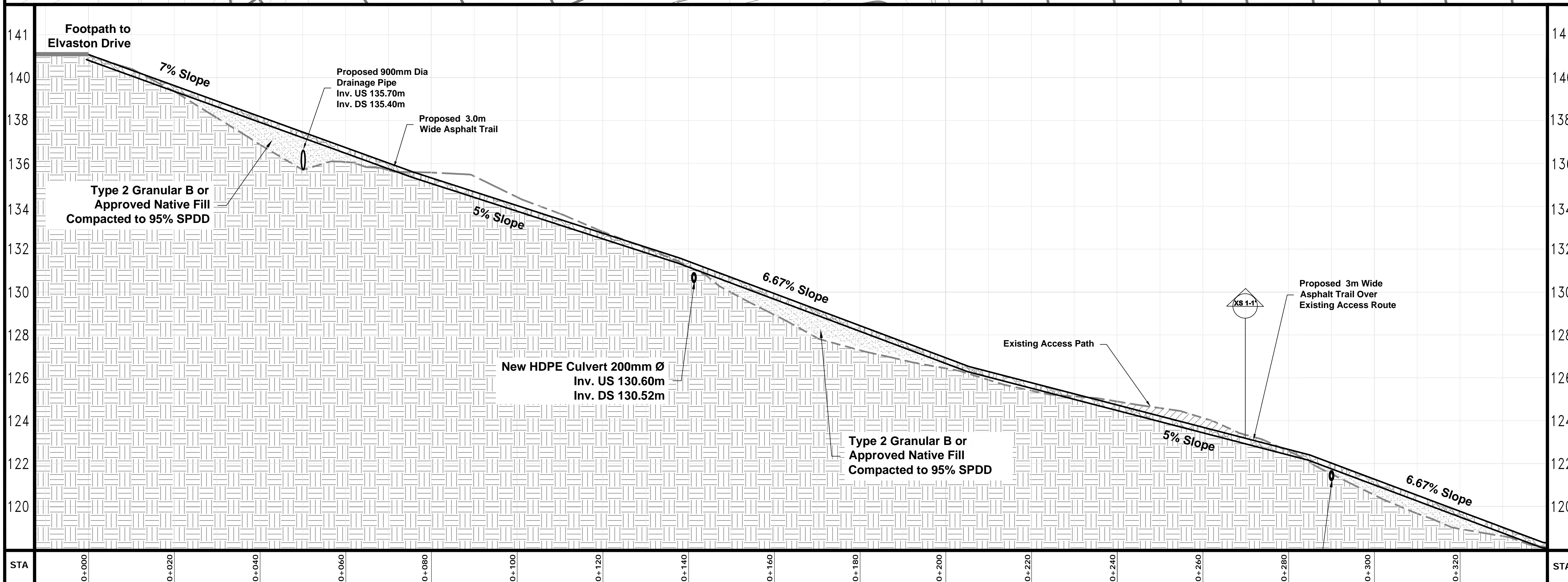
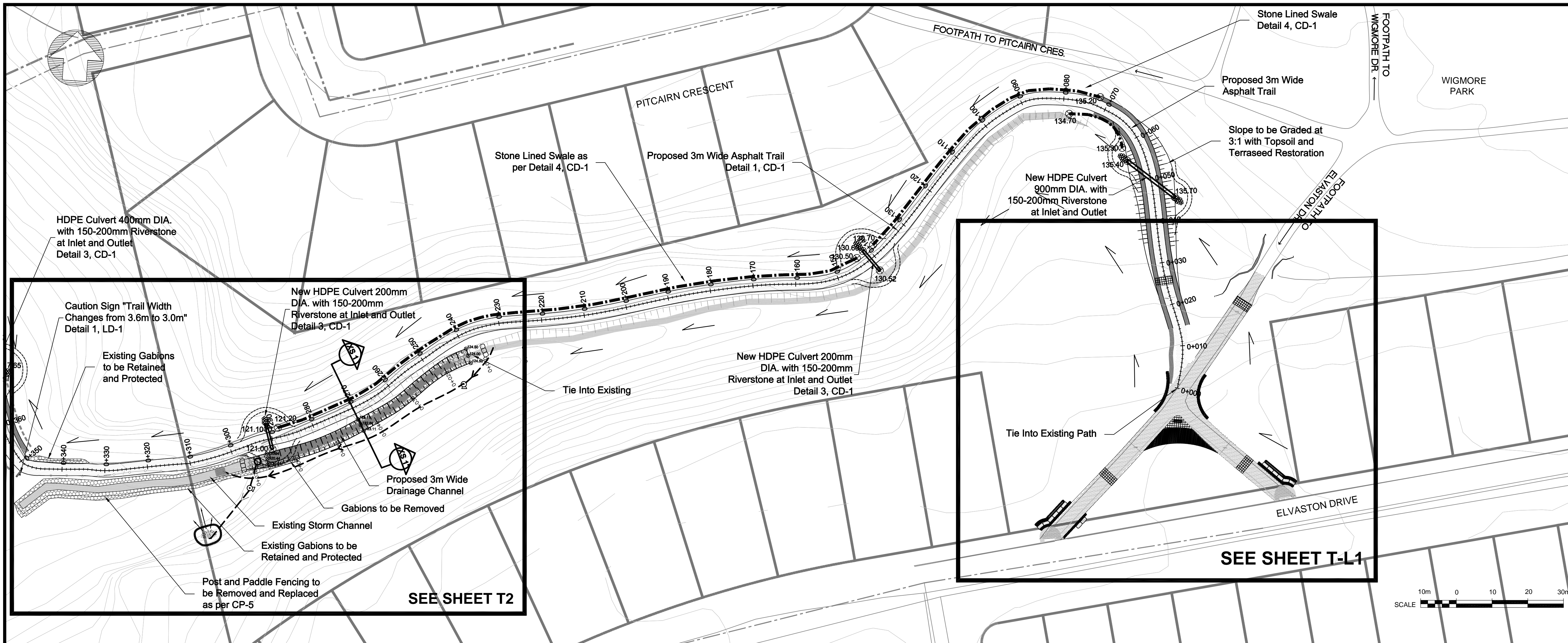
## GENERAL PLAN EAST DON TRAIL PHASE 2



4-202 2400 SKYMARK AVE.  
MISSISSAUGA, ONTARIO, L4W 5B2  
PHONE: (905) 629-0099, FAX: (905) 629-0089

Design:	SCALE: HOR. - 1:5000
Date:	SHEET No. <b>1</b>
	DWG. No. <b>GP</b>





**Aquafor Beech Limited**

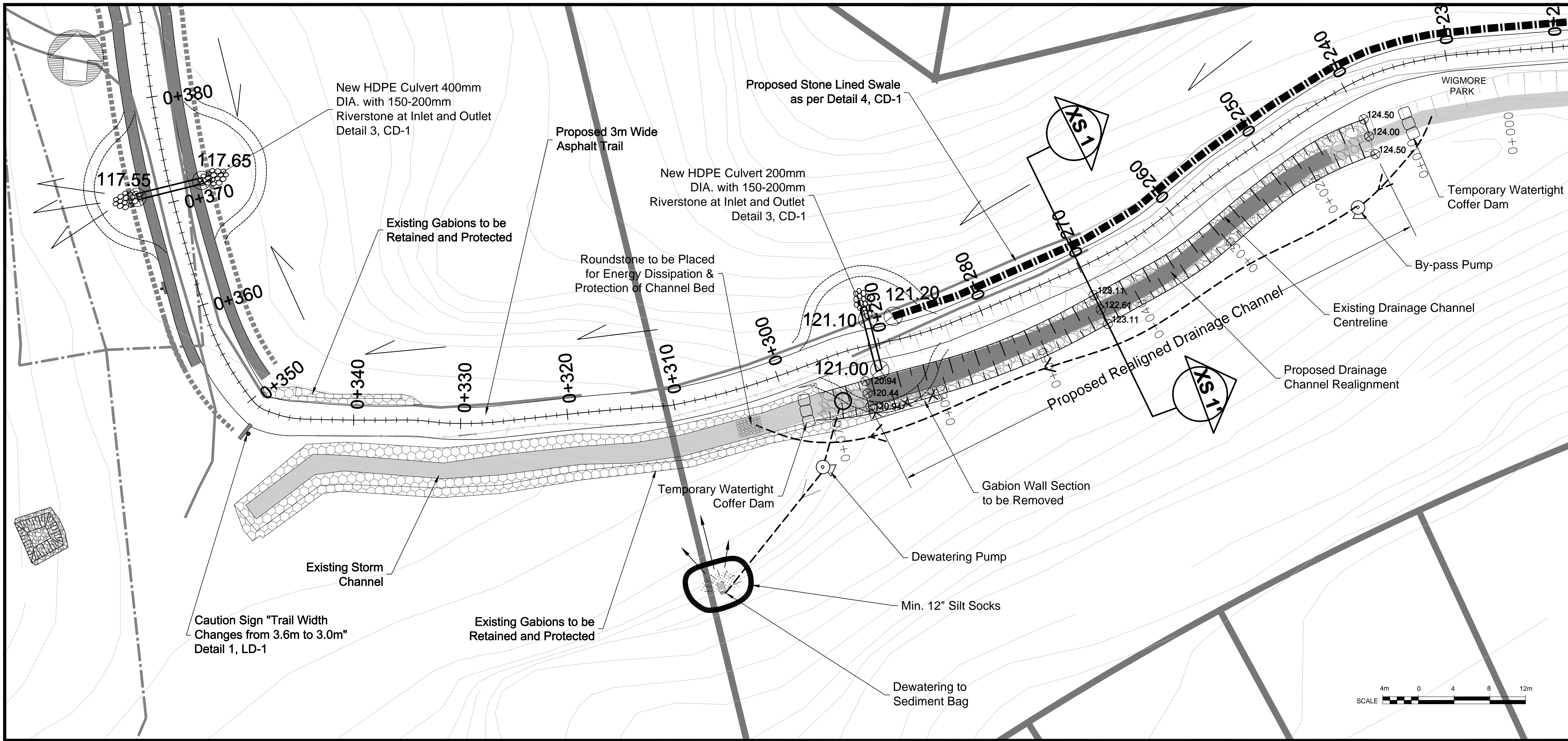
#6-202-2600 SKYMARK AVE.  
MISSISSAUGA, ONTARIO, L4W 5B2  
PHONE: (905) 679-0099, FAX: (905) 679-0099

**EAST DON TRAIL**  
PLAN AND PROFILE - 3

DWG. No. **T** DESIGN BY **R.A. AMOS**

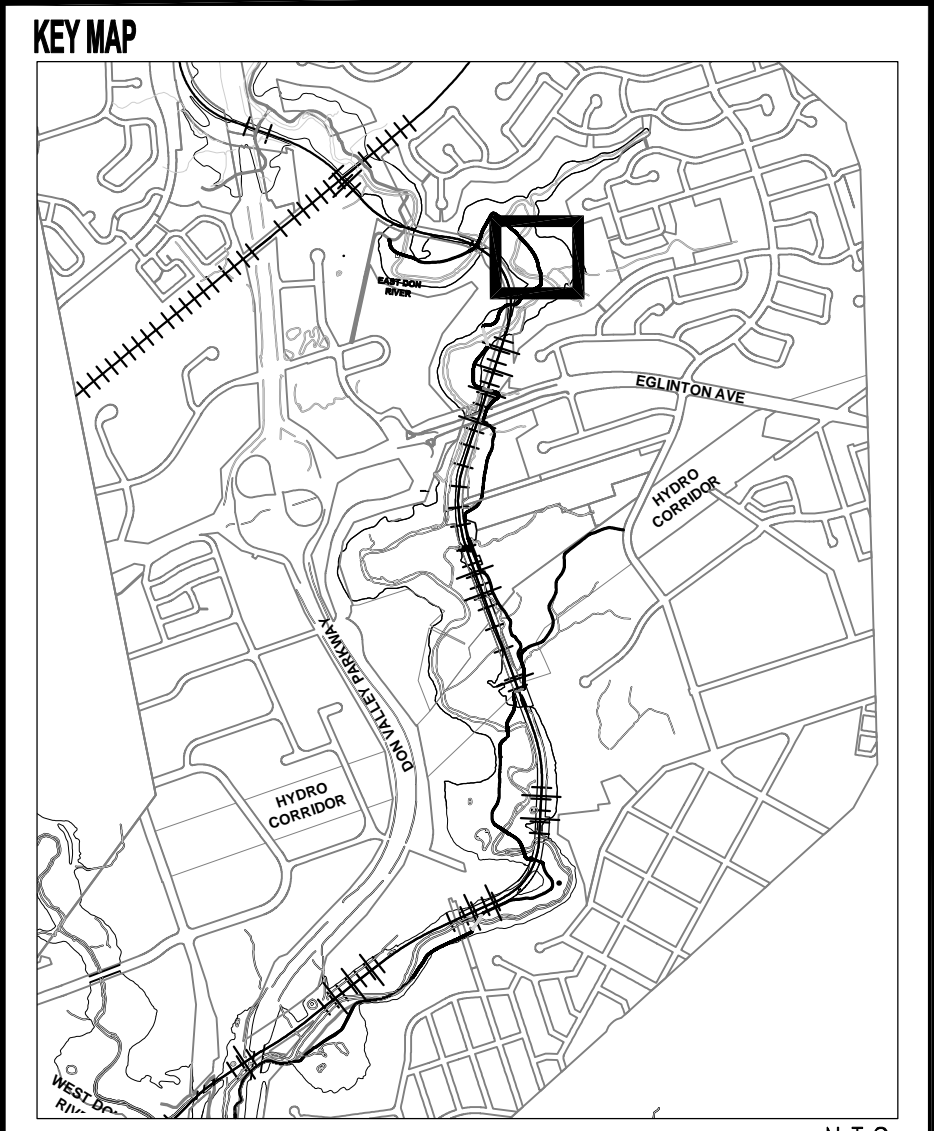
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VER-1:100  
SHEET No. **1**





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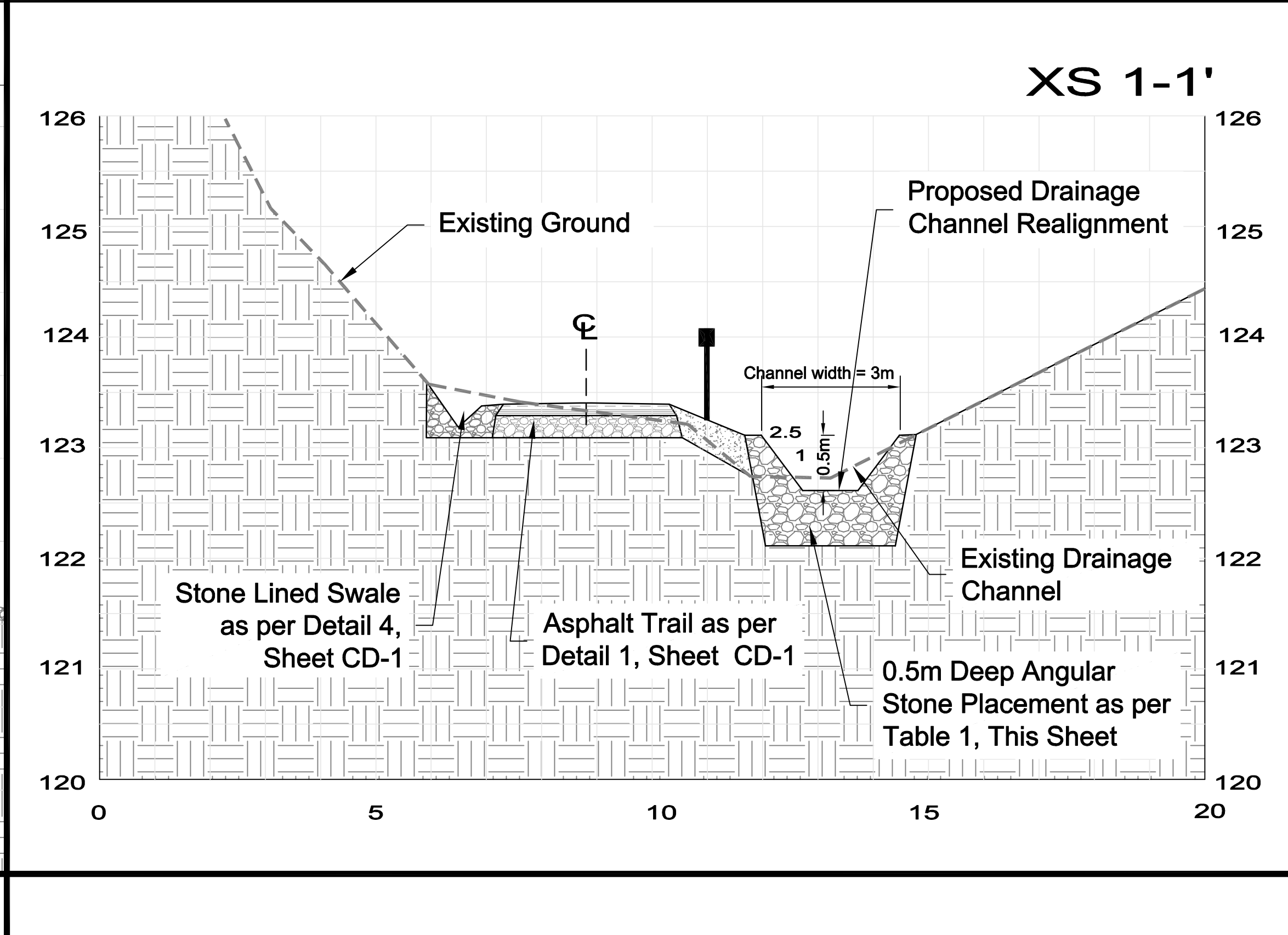
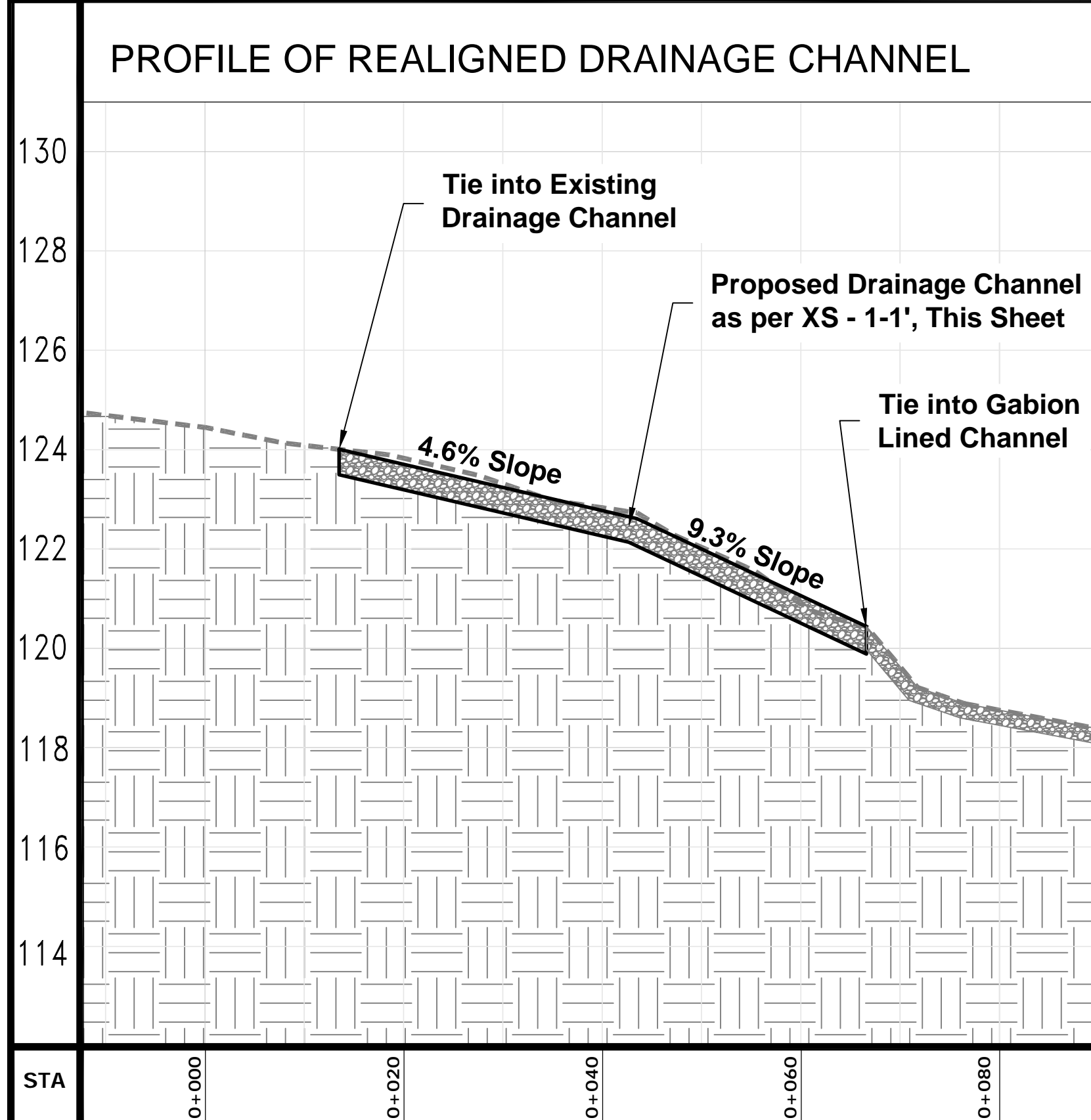


**LEGEND**

- BALRAIL LINE
- - - EXISTING TRAIL
- CONTOURS
- MANHOLE
- - - SANITARY SEWER
- - - STORM SEWER
- - - PROPERTY LINES
- - - 1-2 YEAR FLOODLINE
- - - 1-5 YEAR FLOODLINE
- - - REGIONAL FLOODLINE

- ▨ MULTUSE TRAIL
- ▨ RIVER / CREEK
- ▨ BOARDWALK



**TABLE 1 - SUBSTRATE GRADATION**

B-AXIS SIZE OF SUBSTRATE (MM)	PORTION BY VOLUME (%)
Granular or Approved Native Fill	20
150 - 200	30
200-300	50
Total	100

- NOTES:**
- CONTRACTOR TO ENSURE THAT STONES ARE SIZED ACCORDING TO SPECIFICATIONS AND THAT FULL GRADATION IS INCORPORATED INTO MIXTURE.
  - ACCURACY OF STONE SIZE MIXTURE TO BE INSPECTED BY QUALIFIED ENGINEER PRIOR TO PLACEMENT.

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**Aquafor Beech Limited**

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**EAST DON TRAIL PLAN**

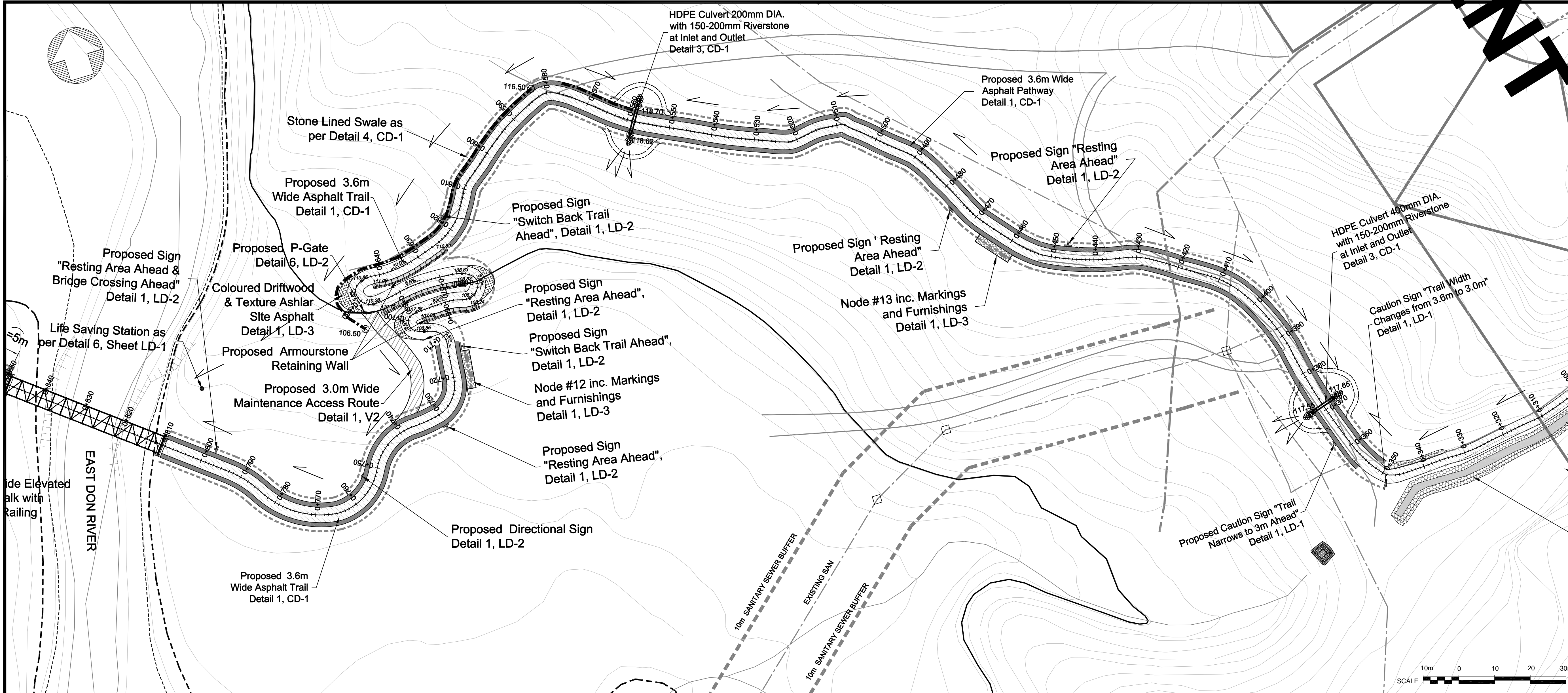
DWG. No. DESIGN BY

**T2**

R.A. AMOS  
REGISTERED PROFESSIONAL ENGINEER  
FEB. 08.2015  
PROVINCE OF ONTARIO

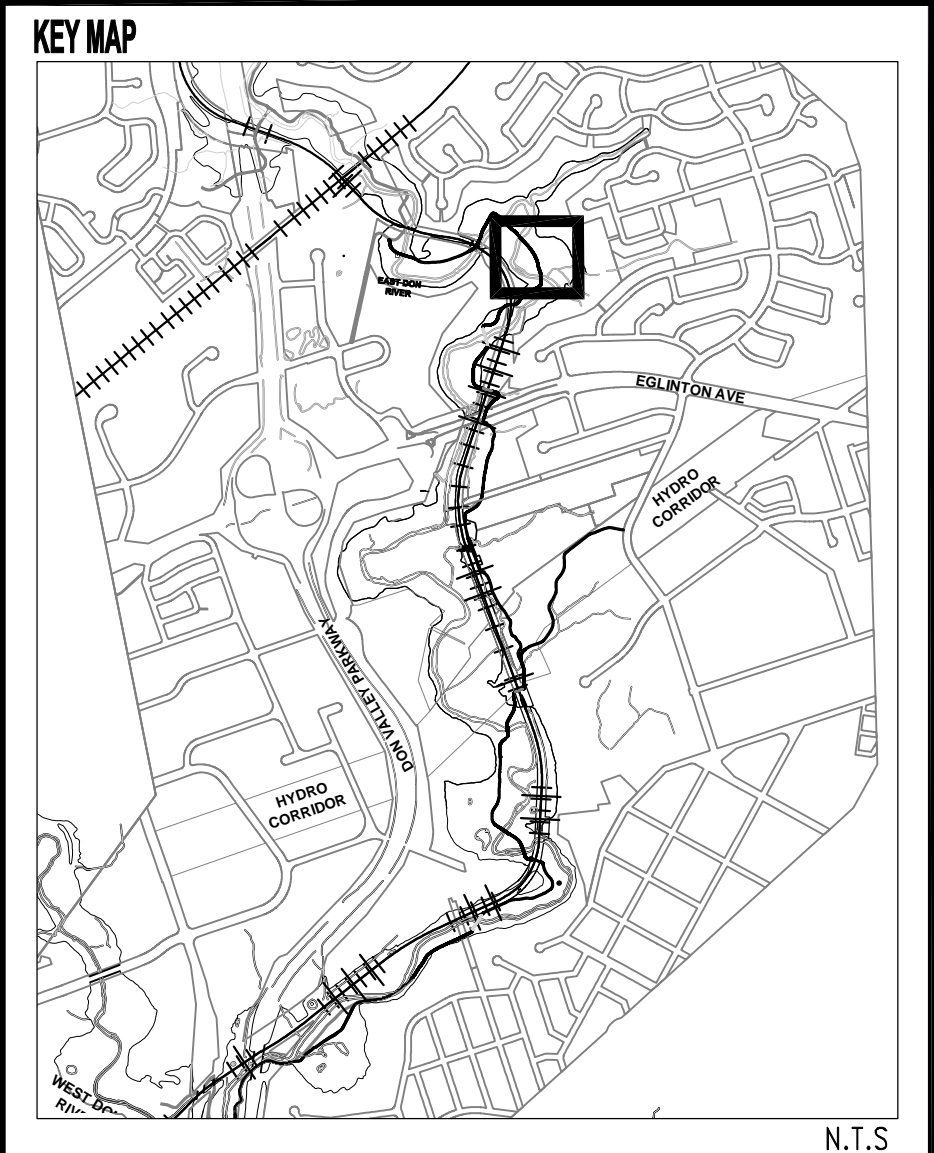
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VER-1:100  
SHEET No. **1-1**





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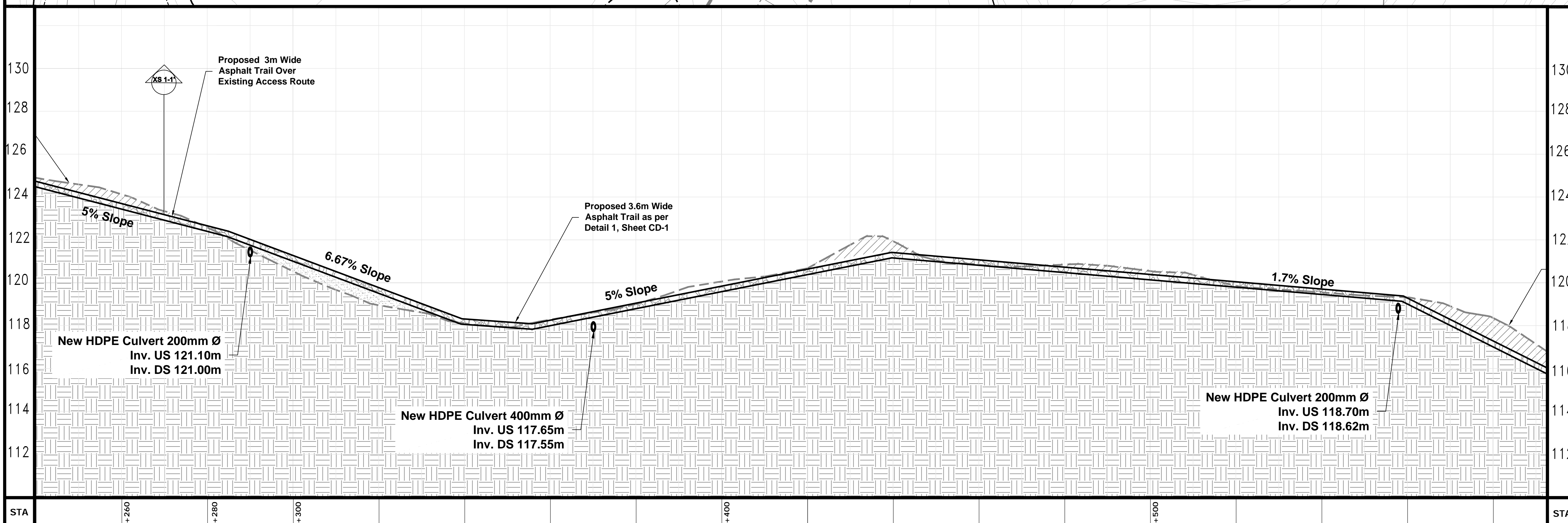
**LEGEND**

- RAIL LINE
- EXISTING TRAIL
- CONTOURS
- MANHOLE
- SANITARY SEWER
- STORM SEWER
- PROPERTY LINES
- 1-2 YEAR FLOODLINE
- 1-5 YEAR FLOODLINE
- REGIONAL FLOODLINE

**LEGEND**

- MULTI USE TRAIL
- RIVER / CREEK
- BOARDWALK

SCALE: 10m 0 10 20 30m



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**Aquafor Beech Limited**

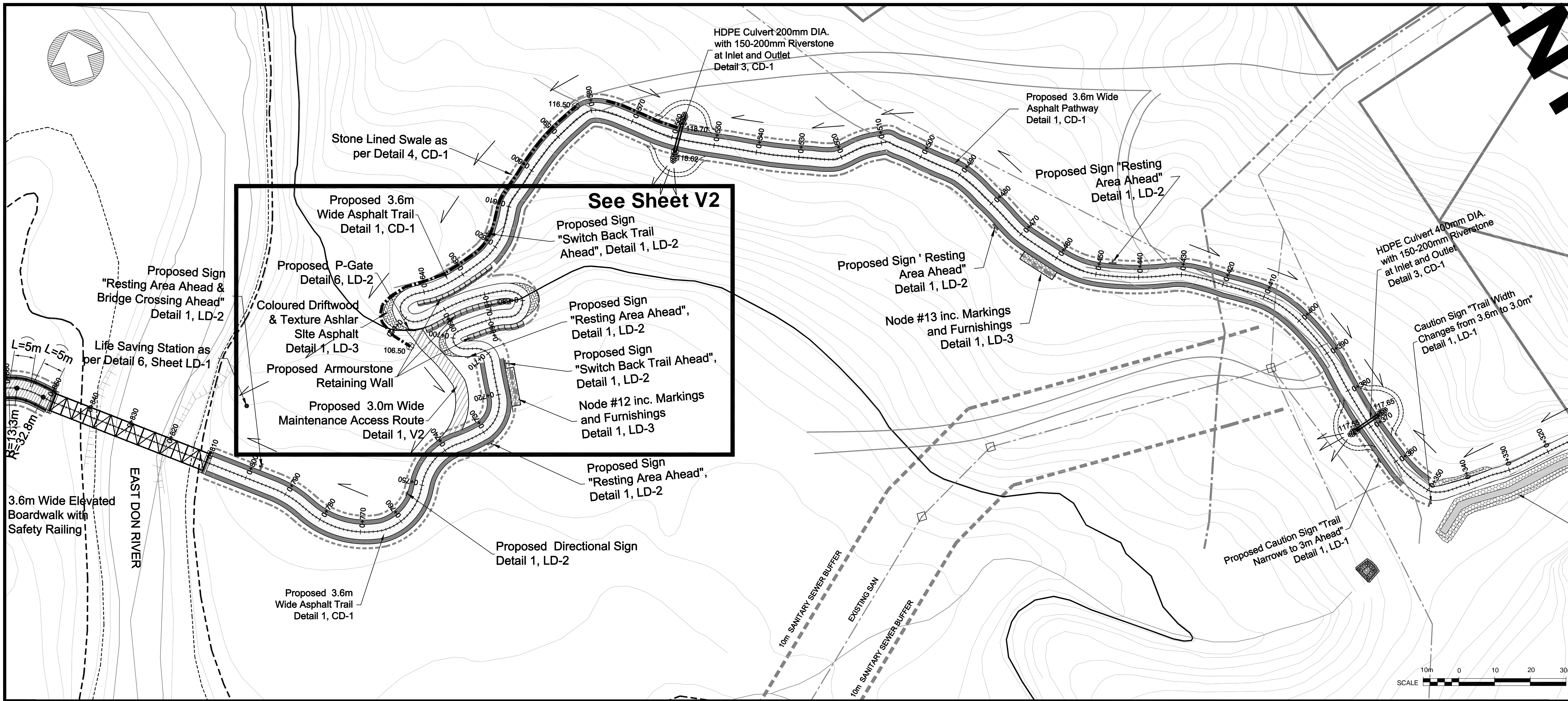
#6-202-2600 SKYMARK AVE.  
 MISSISSAUGA, ONTARIO, L4W 5B2  
 PHONE: (905) 629-0099, FAX: (905) 629-0089

**EAST DON TRAIL**  
 PLAN AND PROFILE - 2

DWG. No. **U** DESIGN BY **R.A. AMOS**

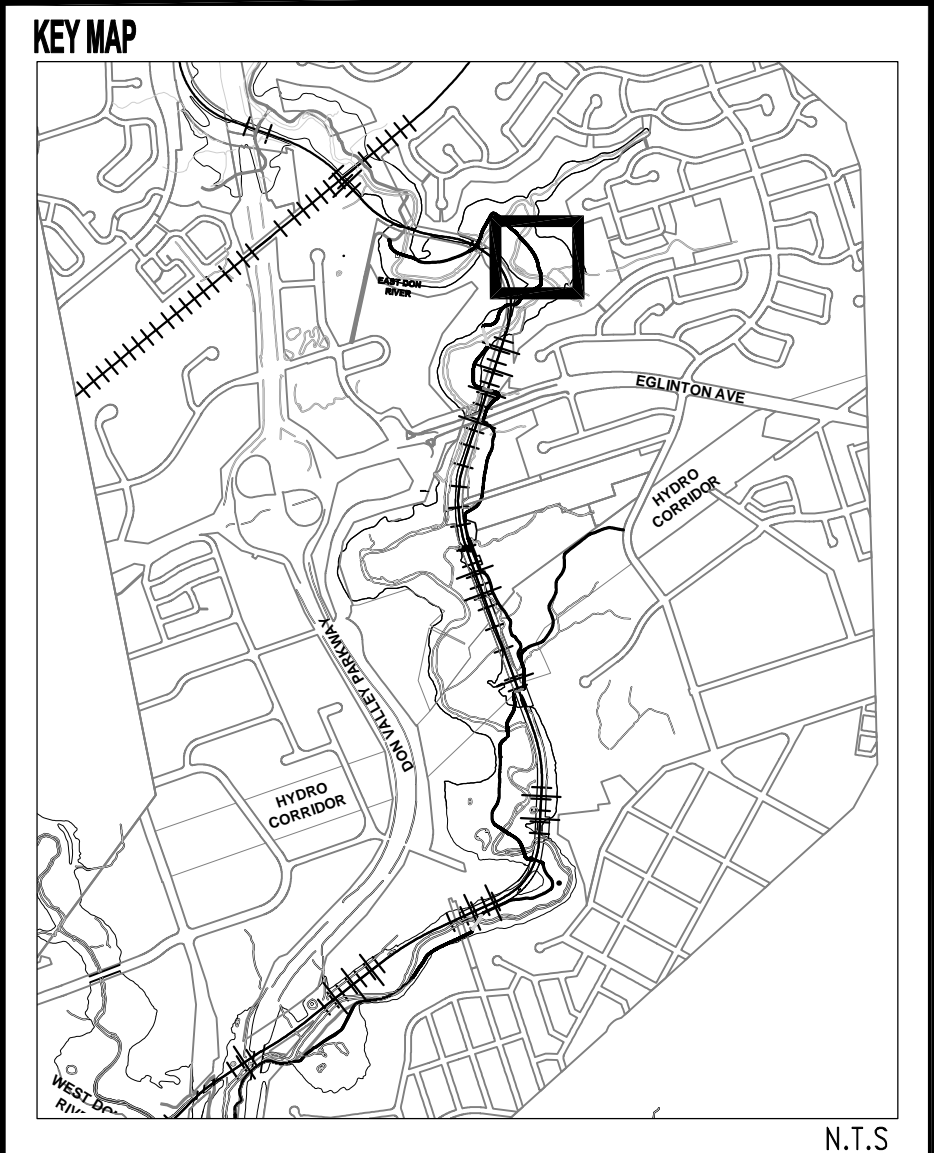
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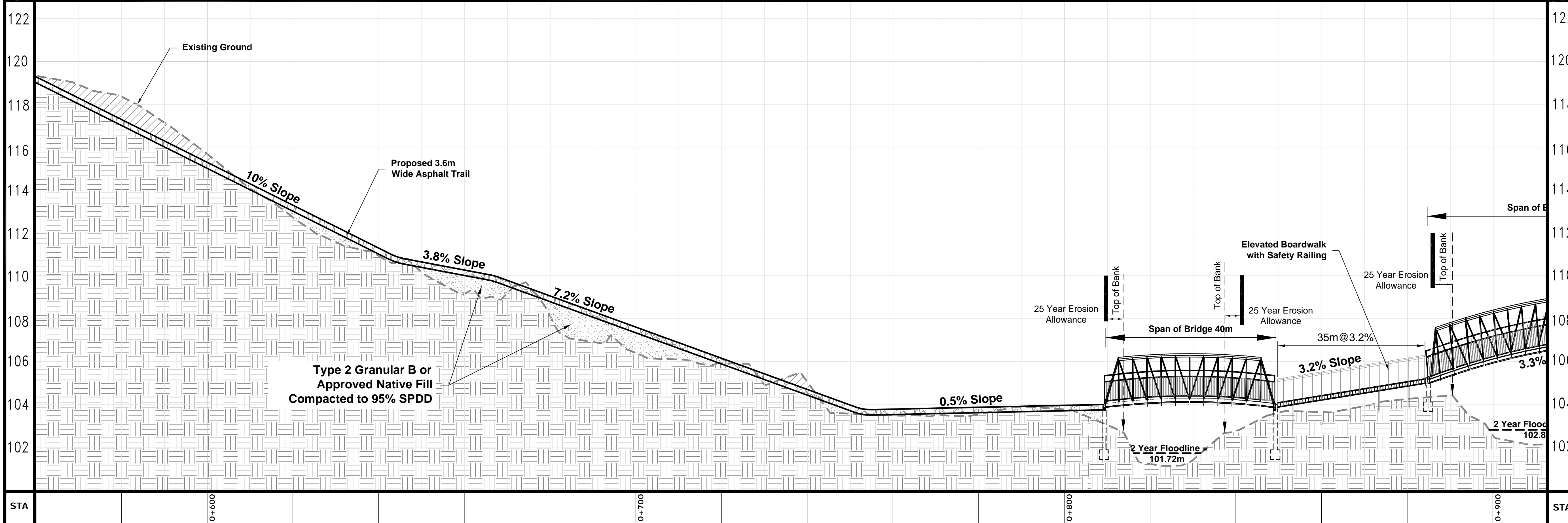
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**LEGEND**

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- MANHOLE
- SANITARY SEWER
- STORM SEWER
- PROPERTY LINES
- 1:2 YEAR FLOODLINE
- 1:5 YEAR FLOODLINE
- REGIONAL FLOODLINE
- MULTI USE TRAIL
- RIVER / CREEK
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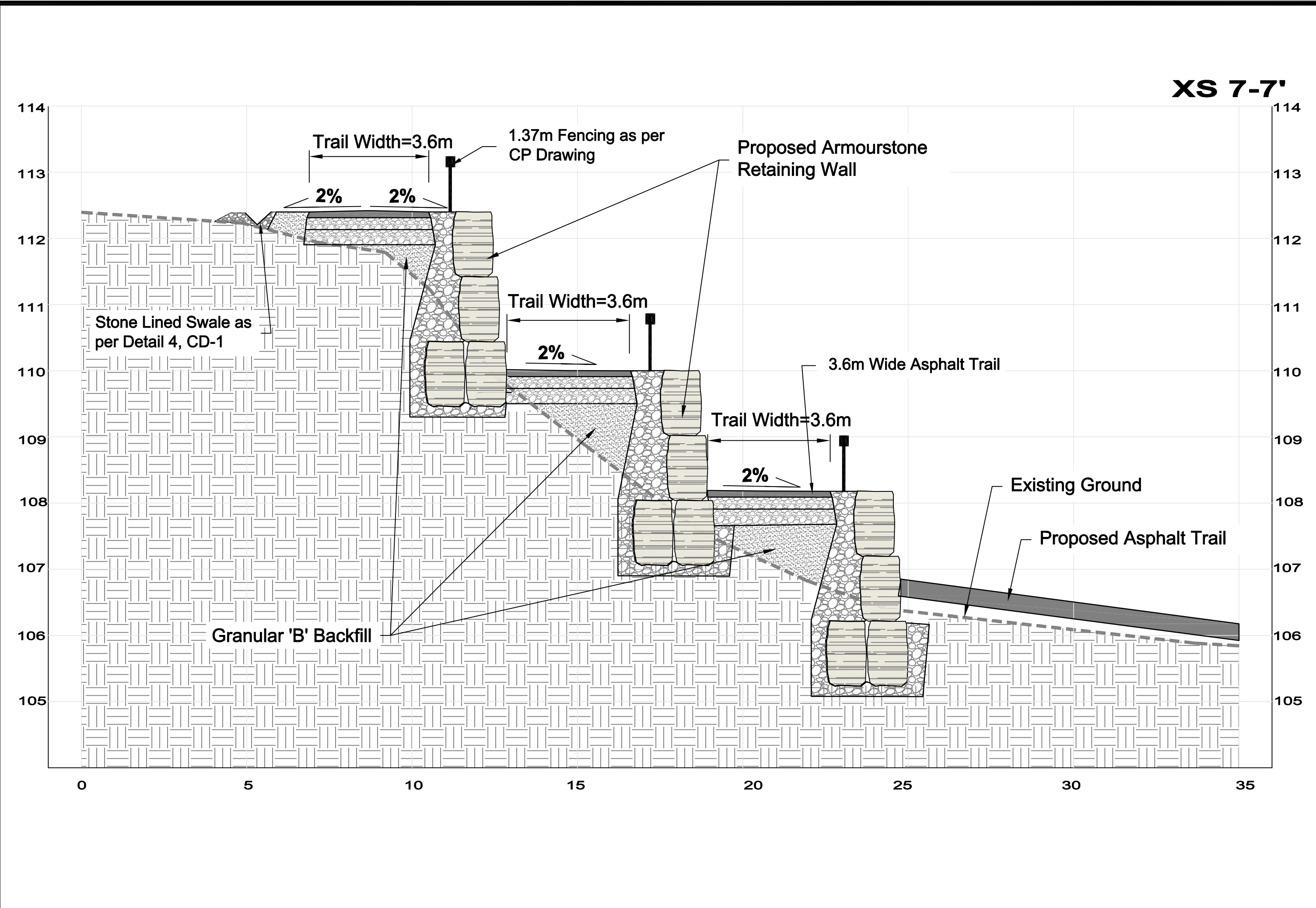
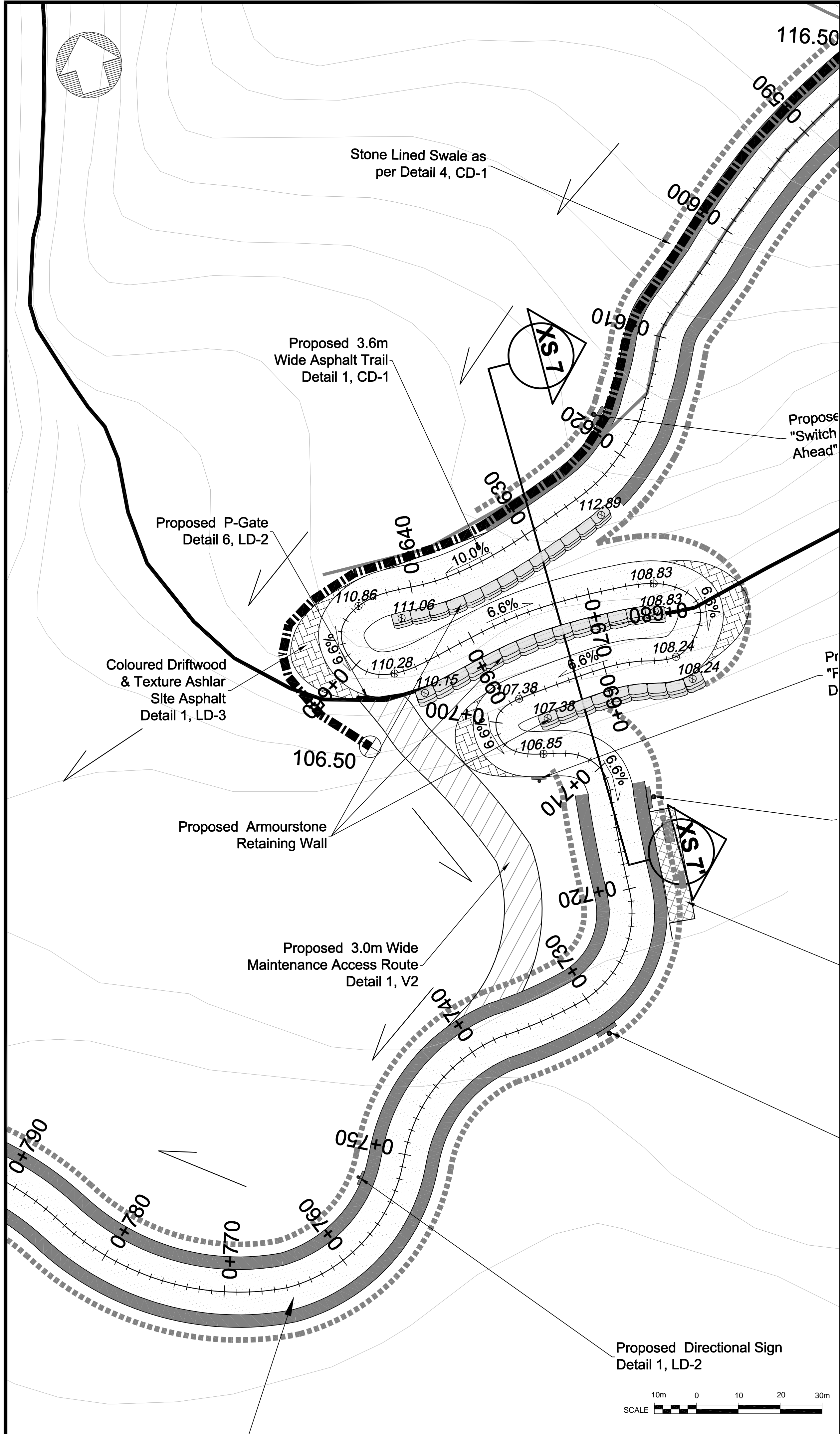
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**EAST DON TRAIL**  
PLAN AND PROFILE - 3

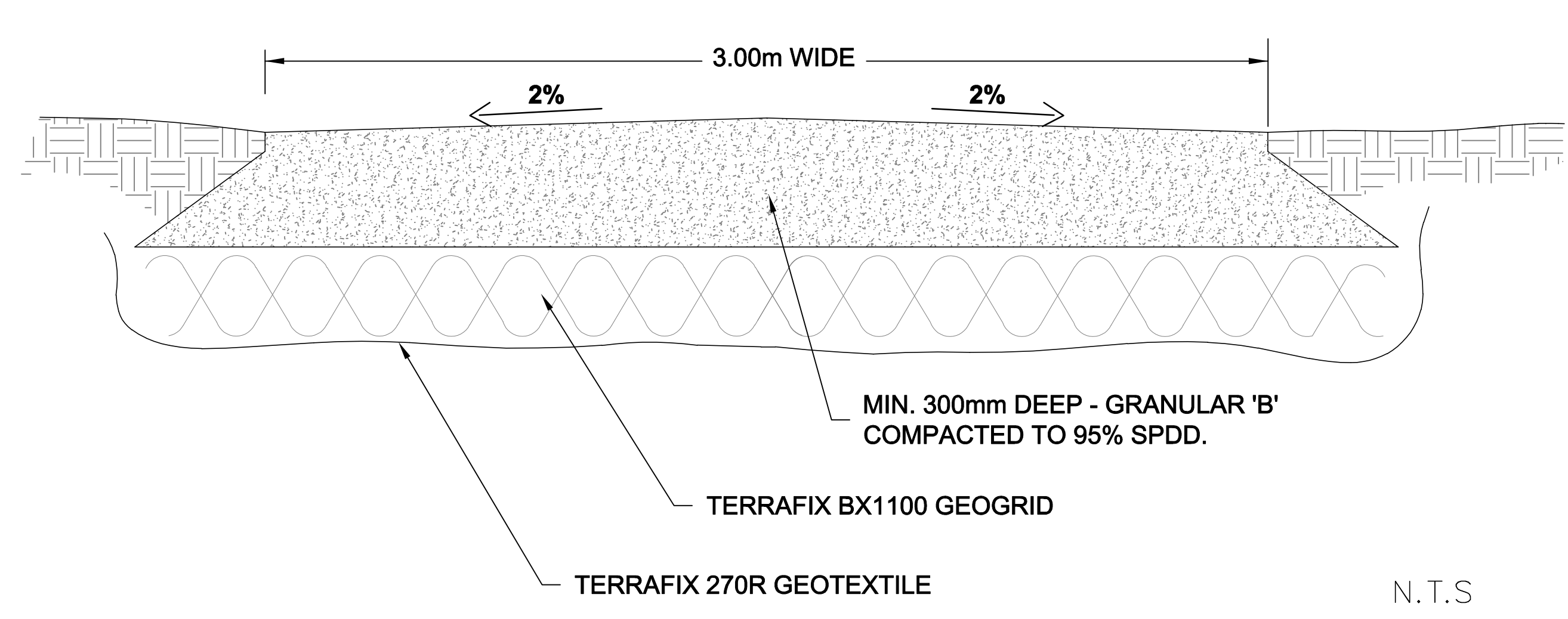
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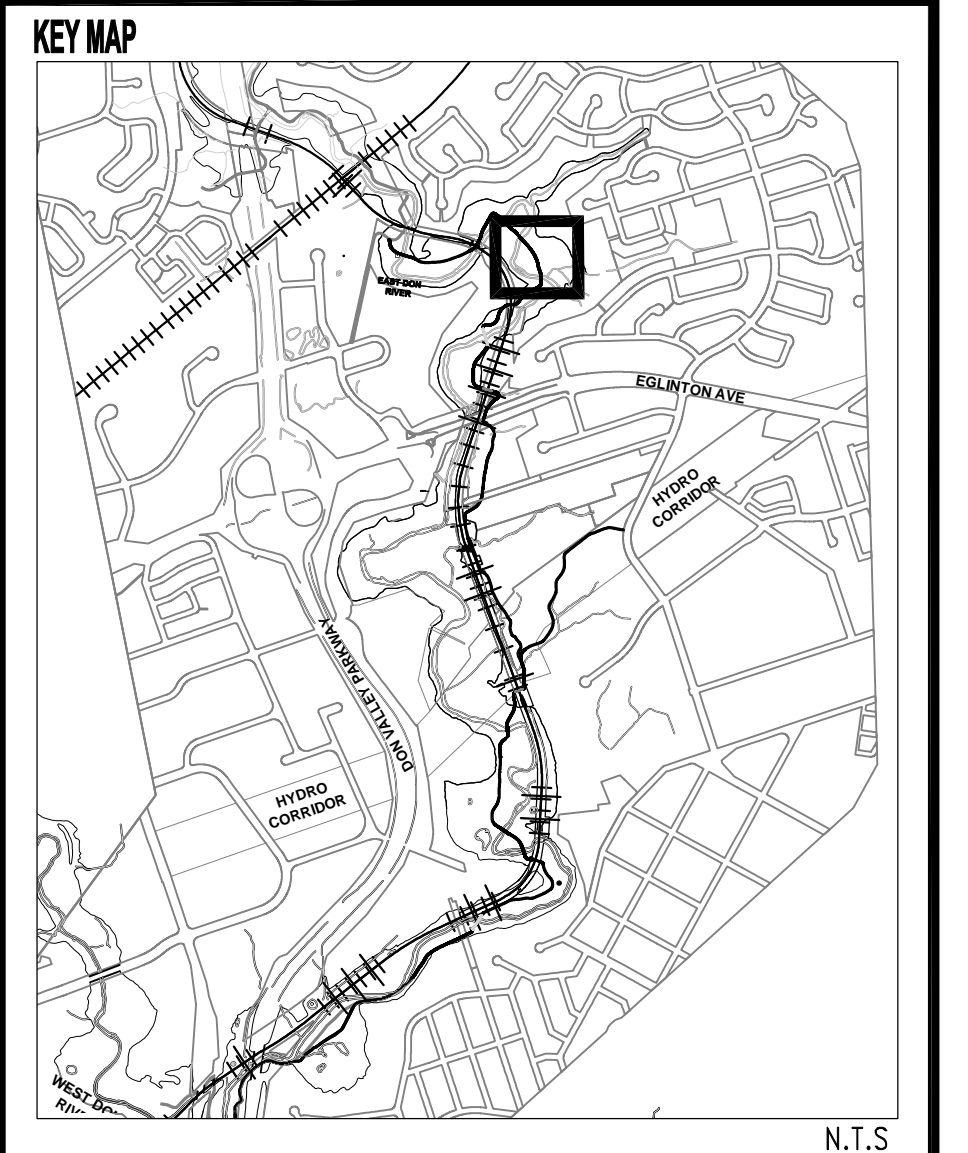
**DETAIL 1 - ACCESS ROUTE**



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**LEGEND**

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- CONTOURS
- MANHOLE
- - - SANITARY SEWER
- - - STORM SEWER
- - - PROPERTY LINES
- - - 1-2 YEAR FLOODLINE
- - - 1-5 YEAR FLOODLINE
- - - REGIONAL FLOODLINE
- MULTI USE TRAIL
- RIVER / CREEK
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**Aquafor Beech Limited**

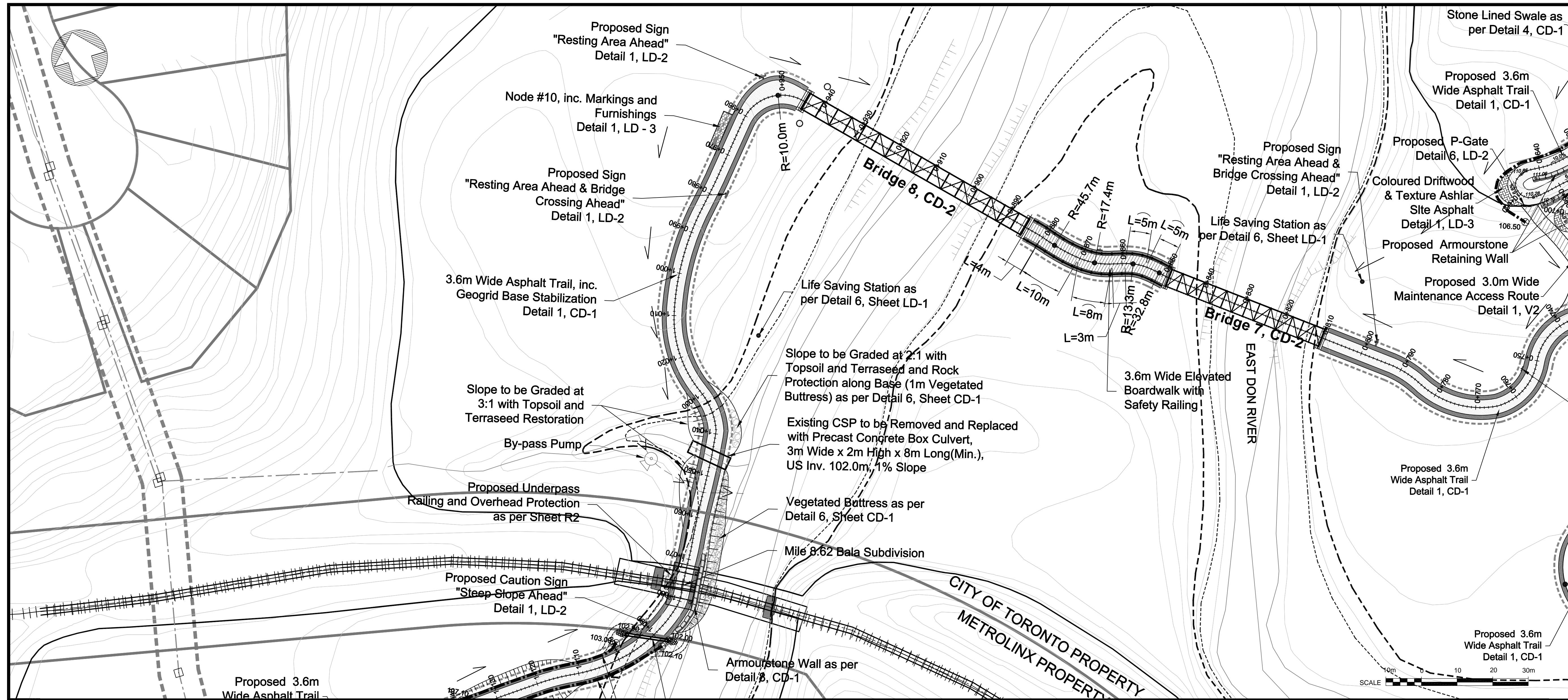
#6-202-2600 SKYMARK AVE.  
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**EAST DON TRAIL**  
PLAN AND PROFILE - 3

DWG. No. **V2** DESIGN BY **R.A. AMOS**

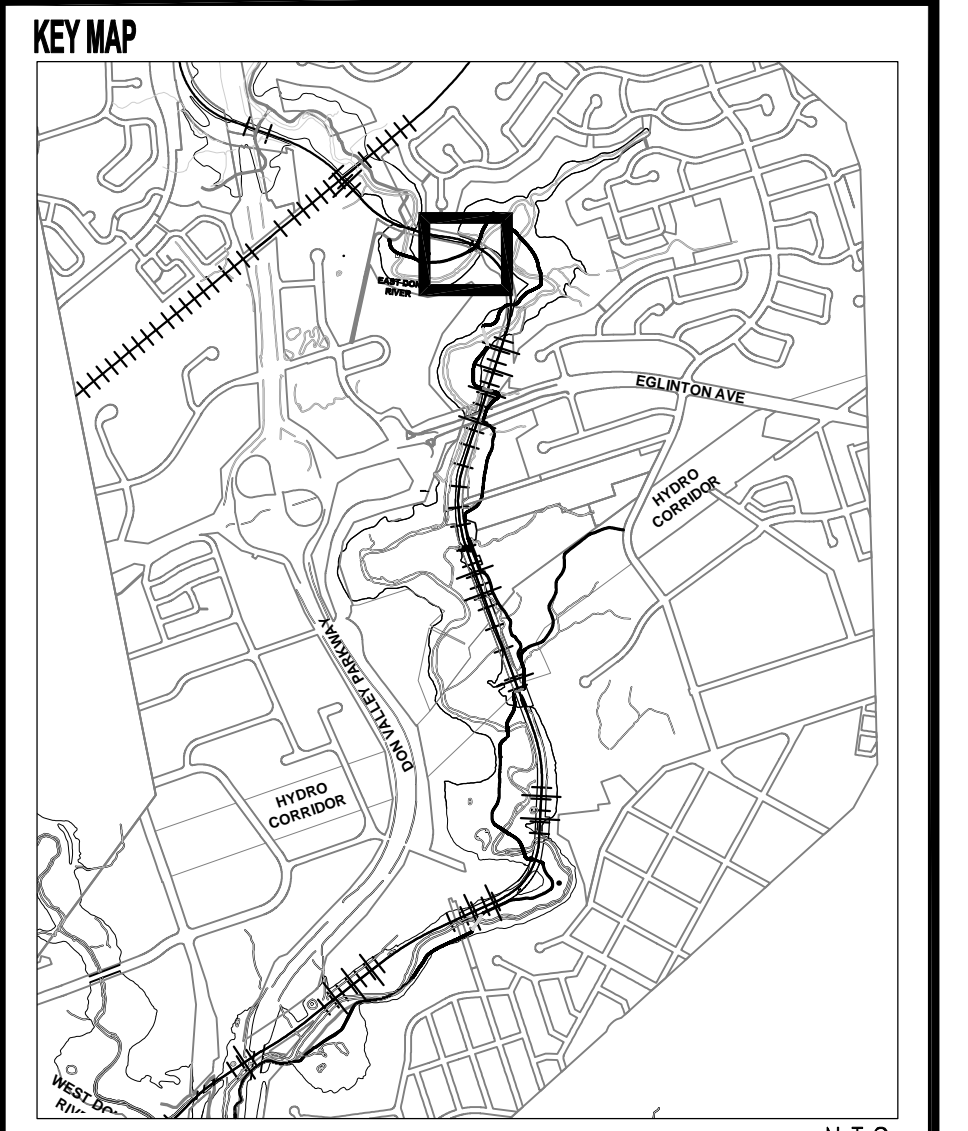
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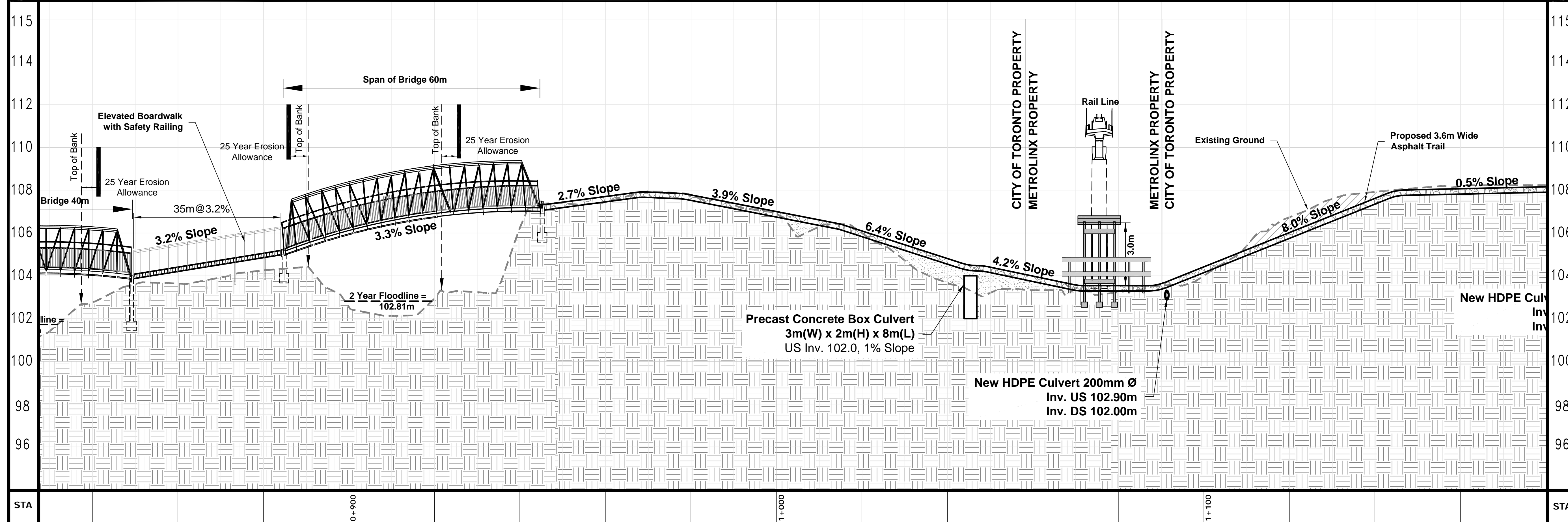
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- 1-5 YEAR FLOODLINE
- REGIONAL FLOODLINE
- MULTI USE TRAIL
- RIVER / CREEK
- BOARDWALK



NO.	DATE	BY	REVISIONS
6	08/02/19	RA/OC	REISSUED FOR REVISED ALIGNMENT
5	28/01/19	RA/OC	REISSUED FOR LINE REVISION
4	09/11/18	RA/OC	REISSUED FOR CONSTRUCTION
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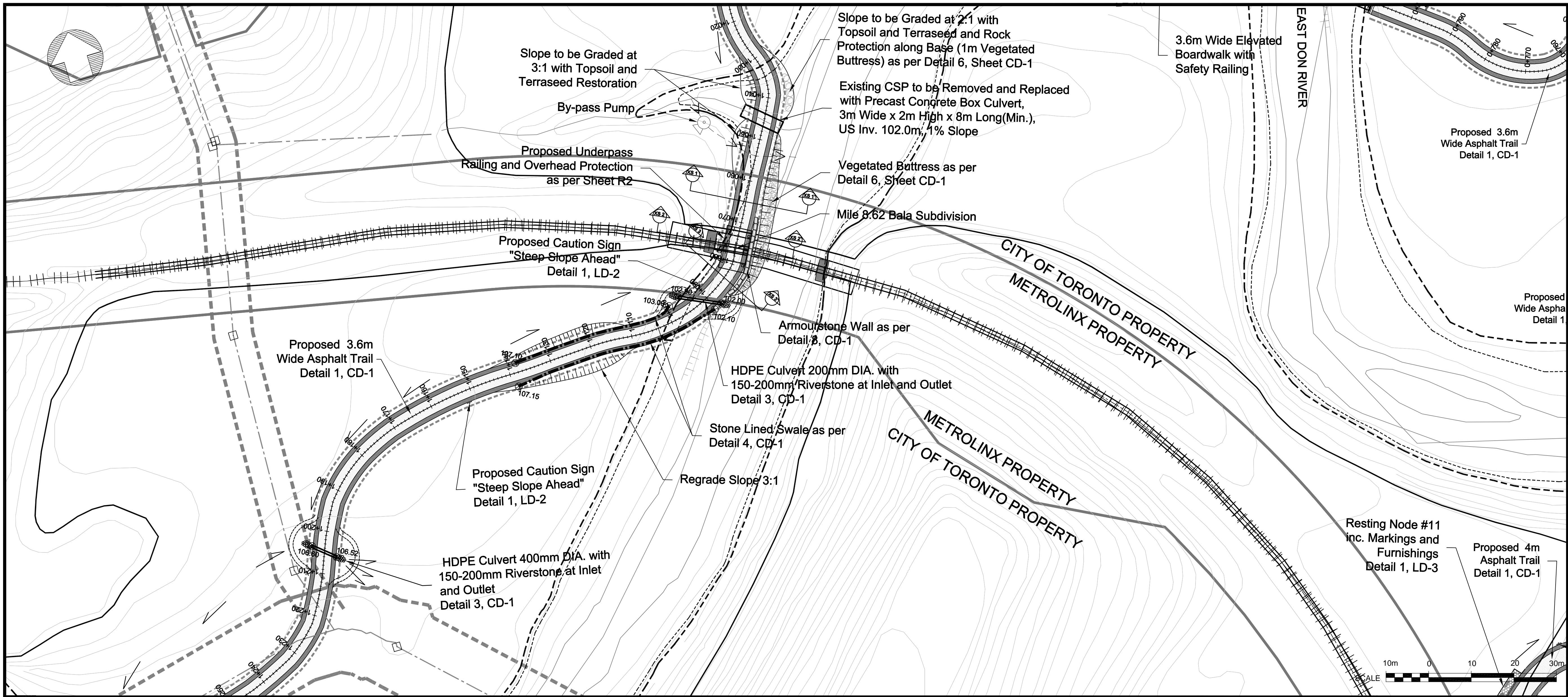
**EAST DON TRAIL**  
PLAN AND PROFILE -17

DWG. No. **Q** DESIGN BY **R.A. AMOS**

SCALE: HOR-1:500 VER-1:100 SHEET No. **4**

REGISTERED PROFESSIONAL ENGINEER  
R.A. AMOS  
FEB. 08. 2019  
PROVINCE OF ONTARIO





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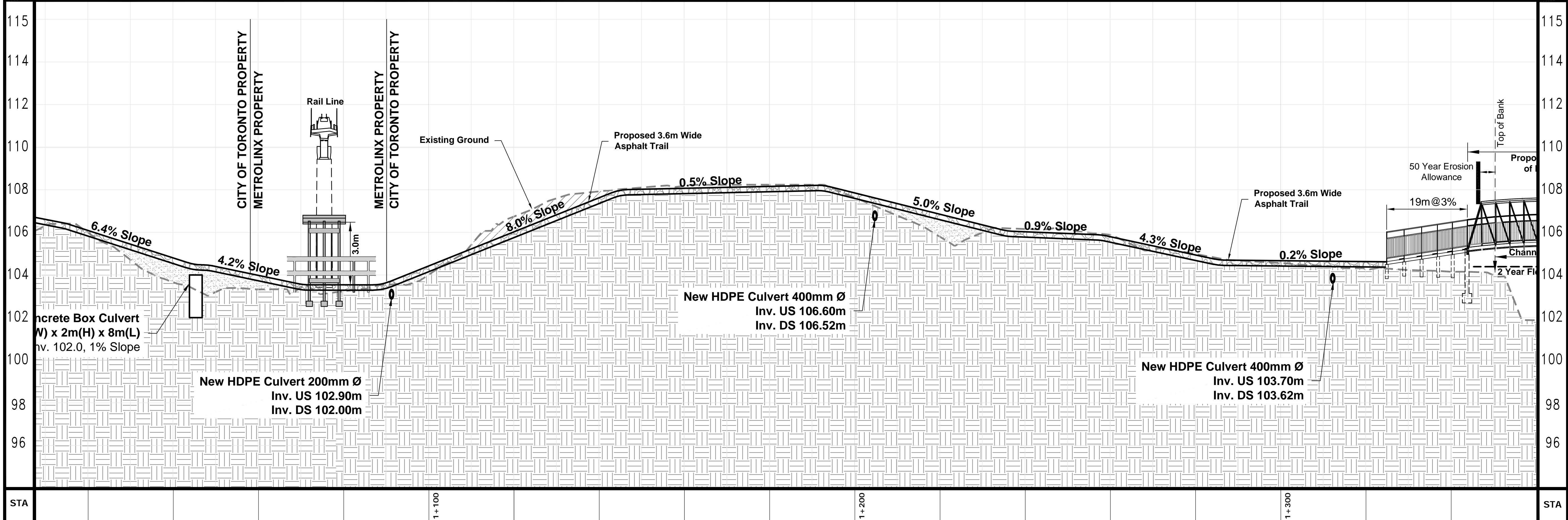
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**KEY MAP**

N.T.S.

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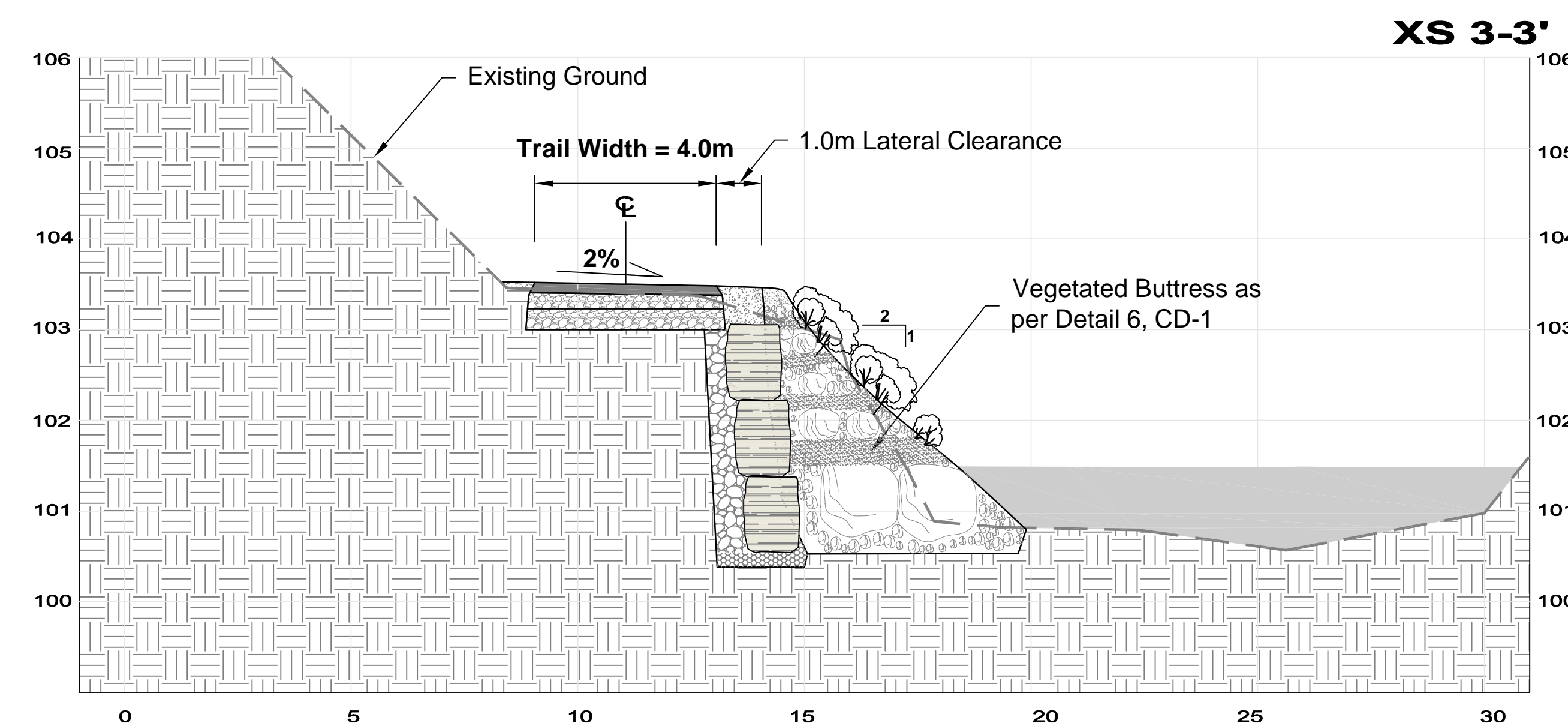
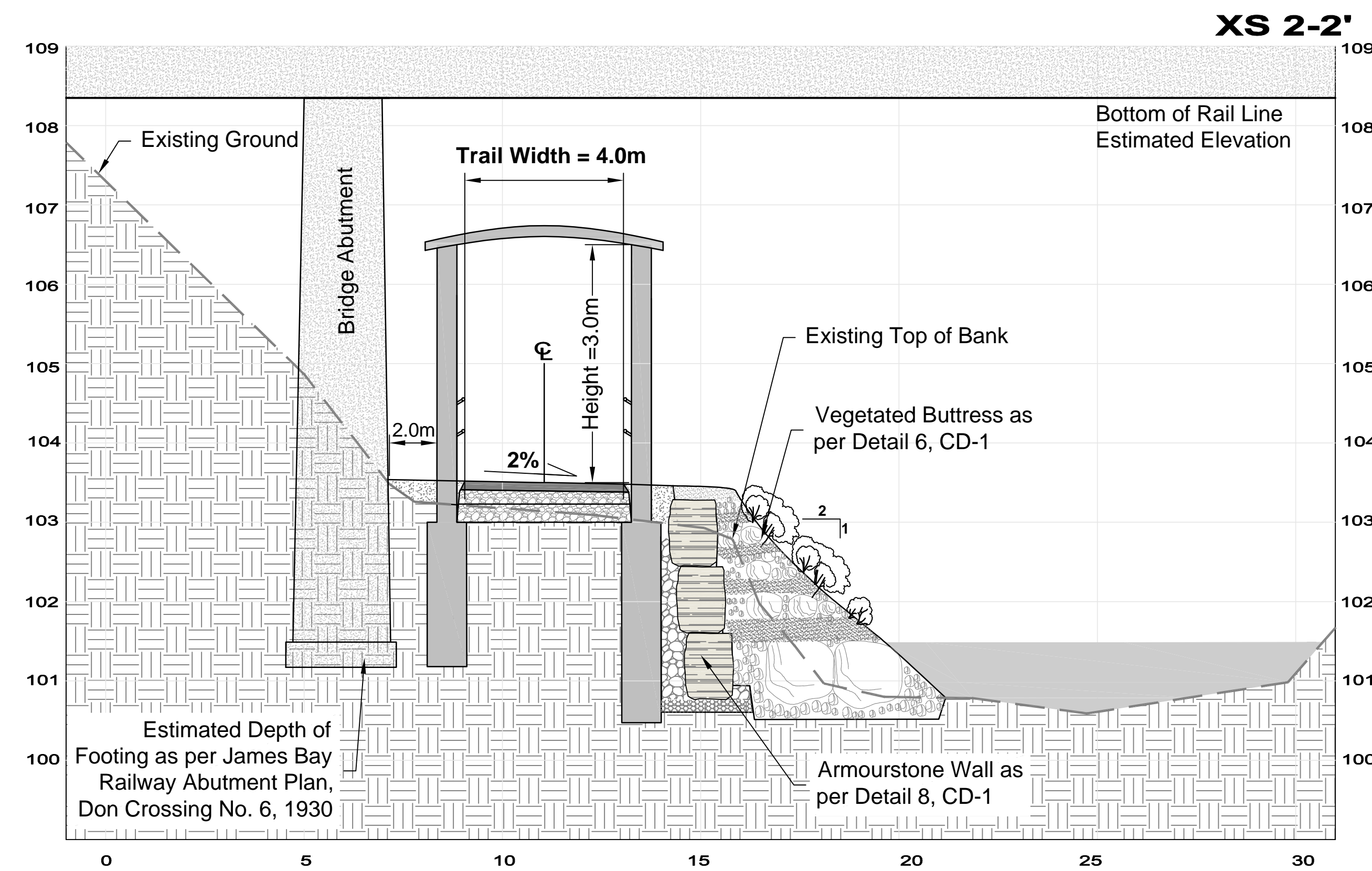
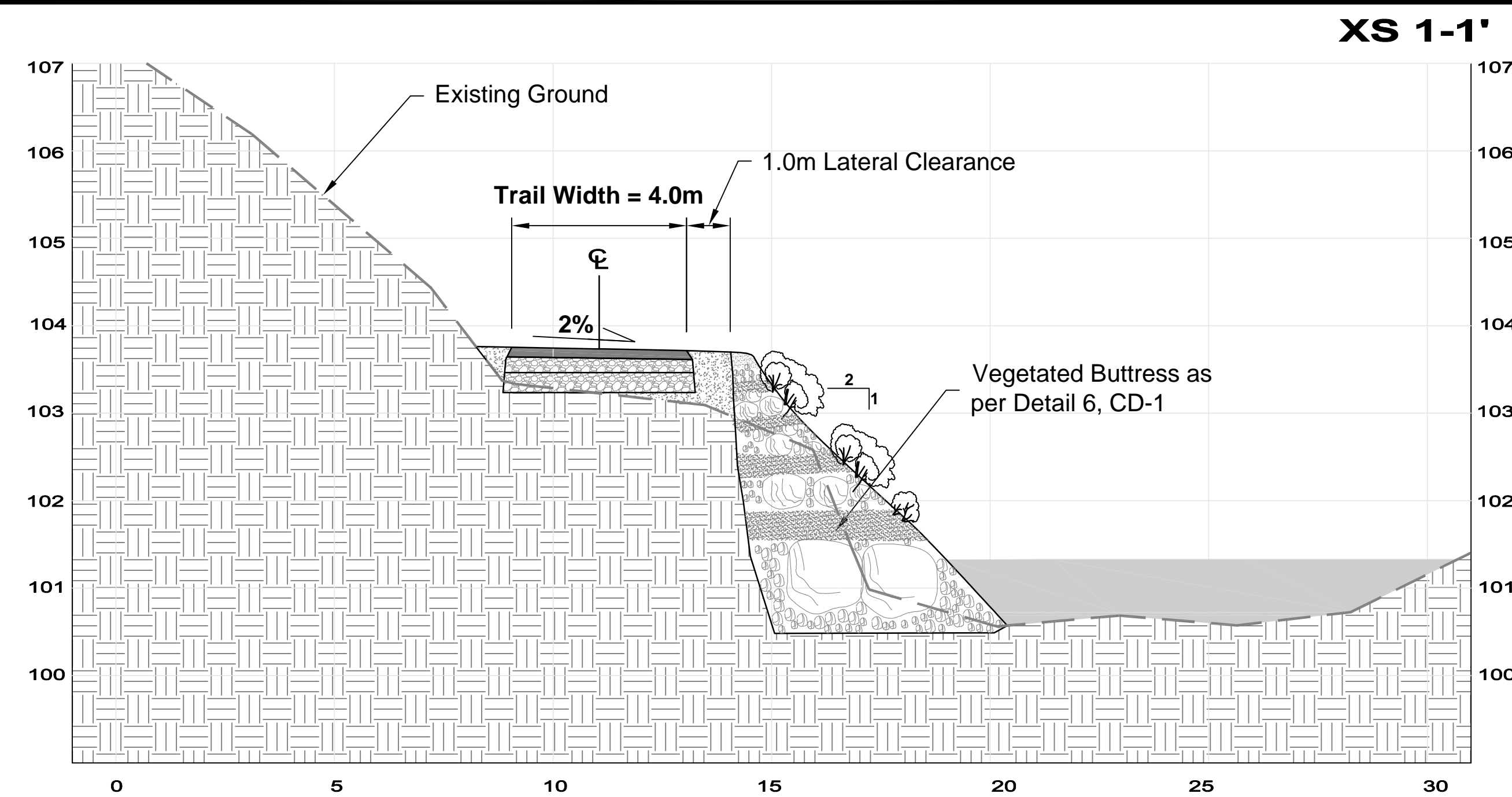
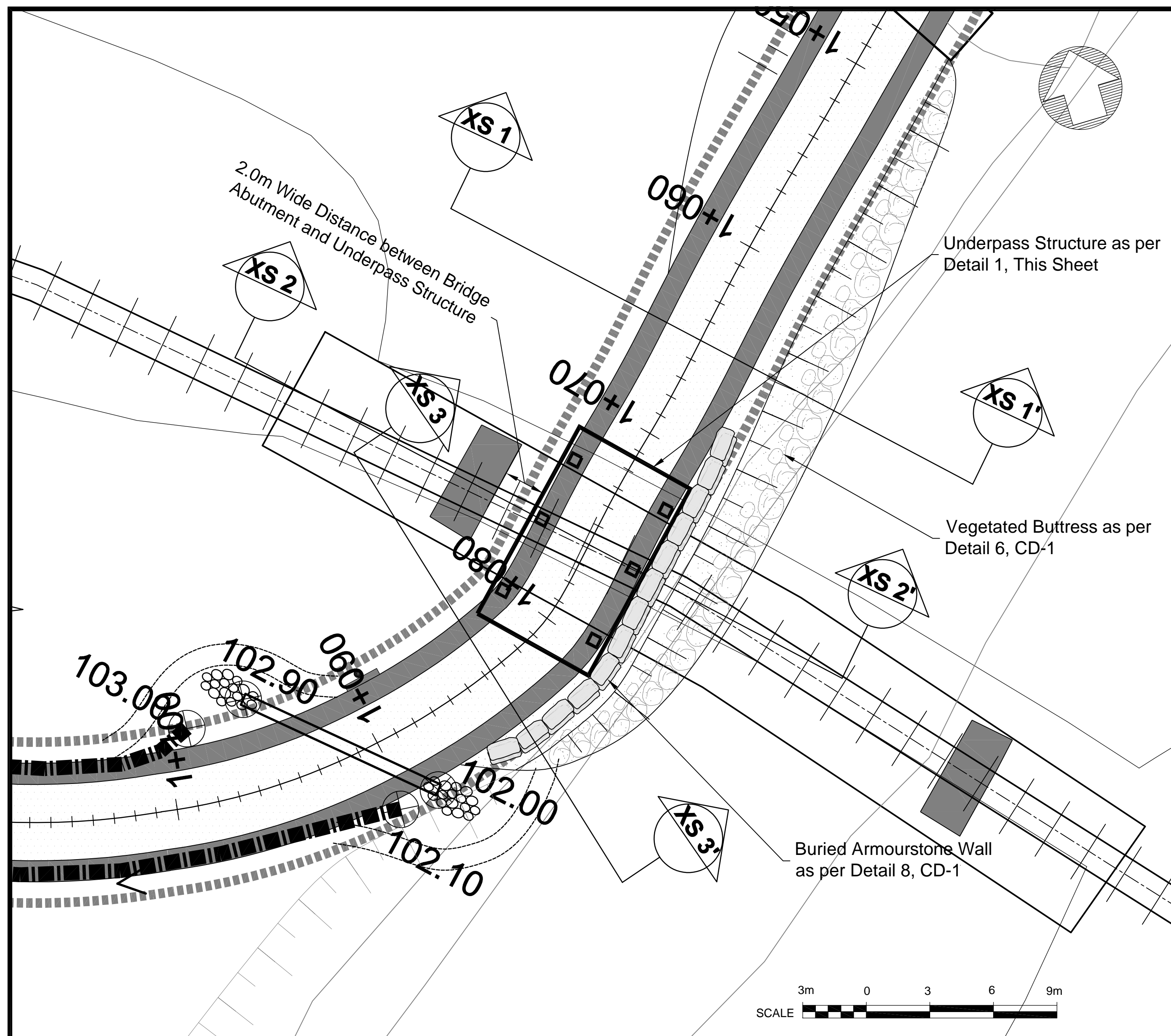
#6-202-2600 SKYMARK AVE.  
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PHONE: (905) 629-0099, FAX: (905) 629-0089

**EAST DON TRAIL**  
PLAN AND PROFILE - 17

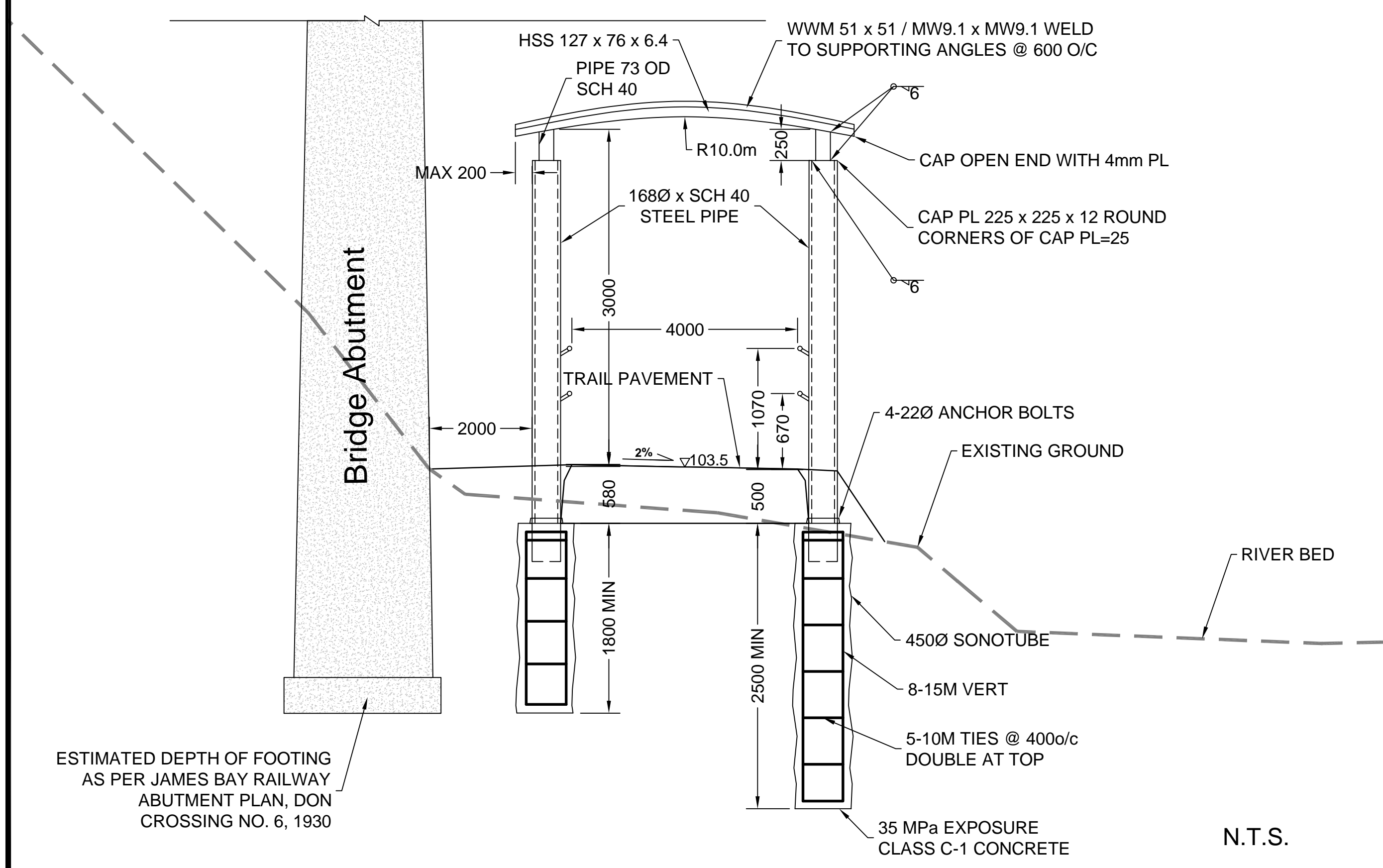
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SCALE: HOR-1:500  
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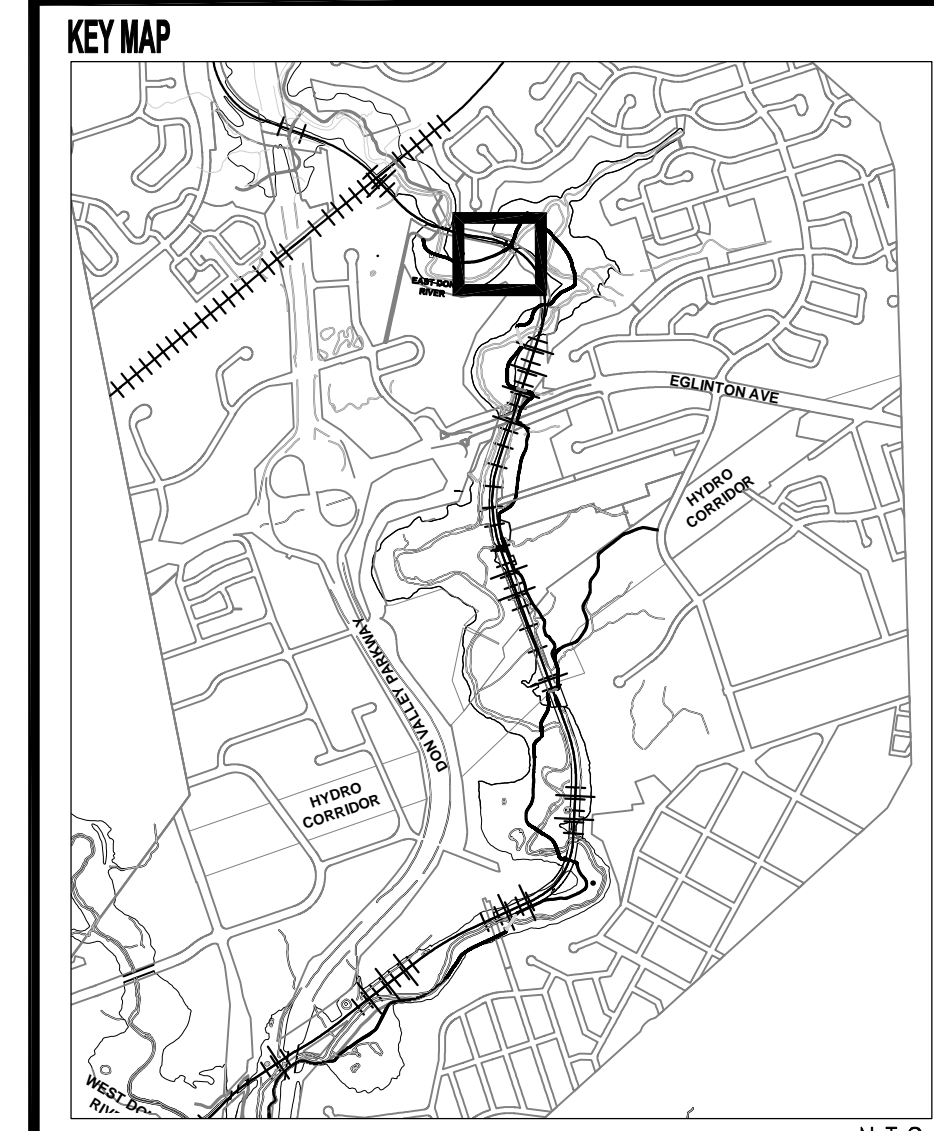


DETAIL 1 - UNDERPASS DETAIL



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**EAST DON TRAIL**  
PLAN AND PROFILE -17

DWG. No. DESIGN BY

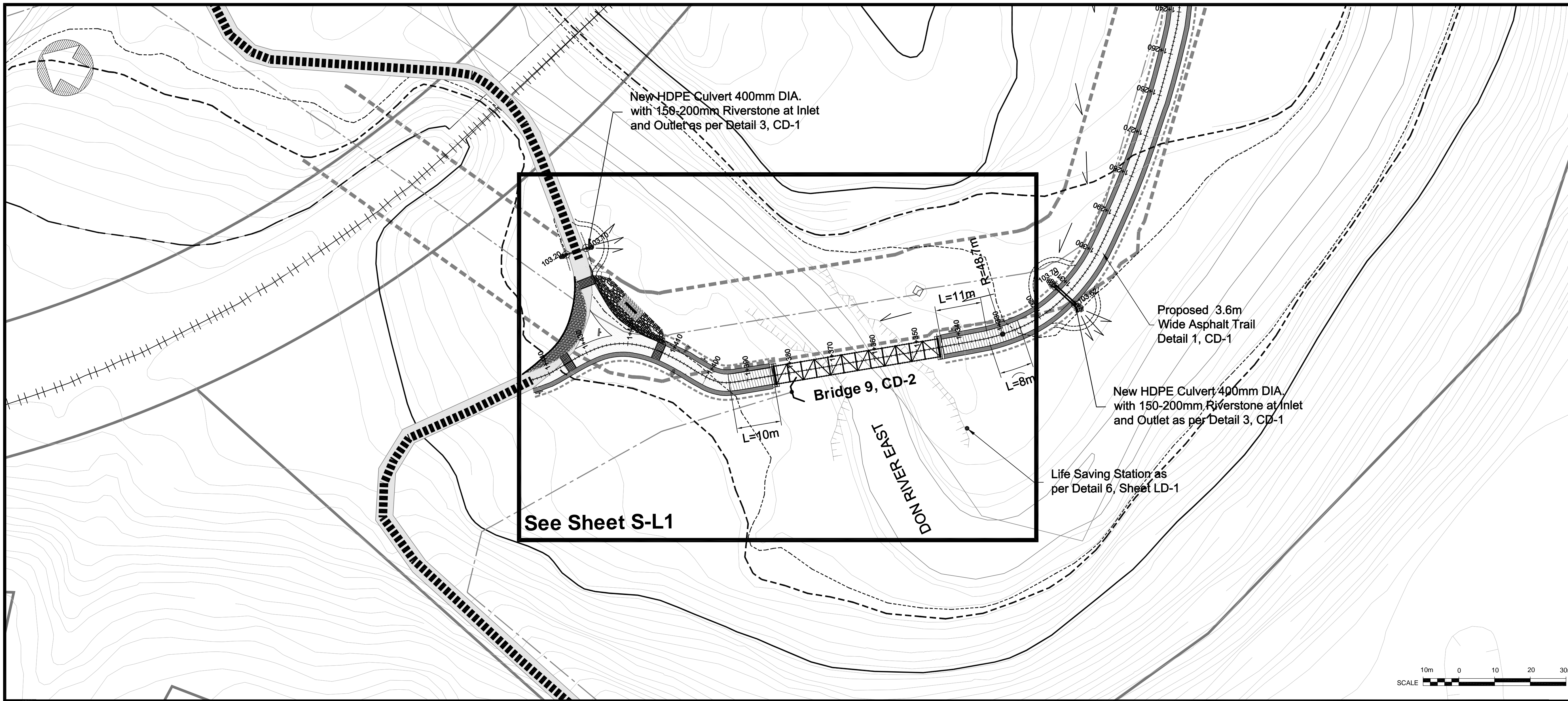
**R2**

REGISTERED PROFESSIONAL ENGINEER  
R.A. AMOS  
FEB. 08. 2019  
PROVINCE OF ONTARIO

SCALE: HOR-1:100  
VER-1:50

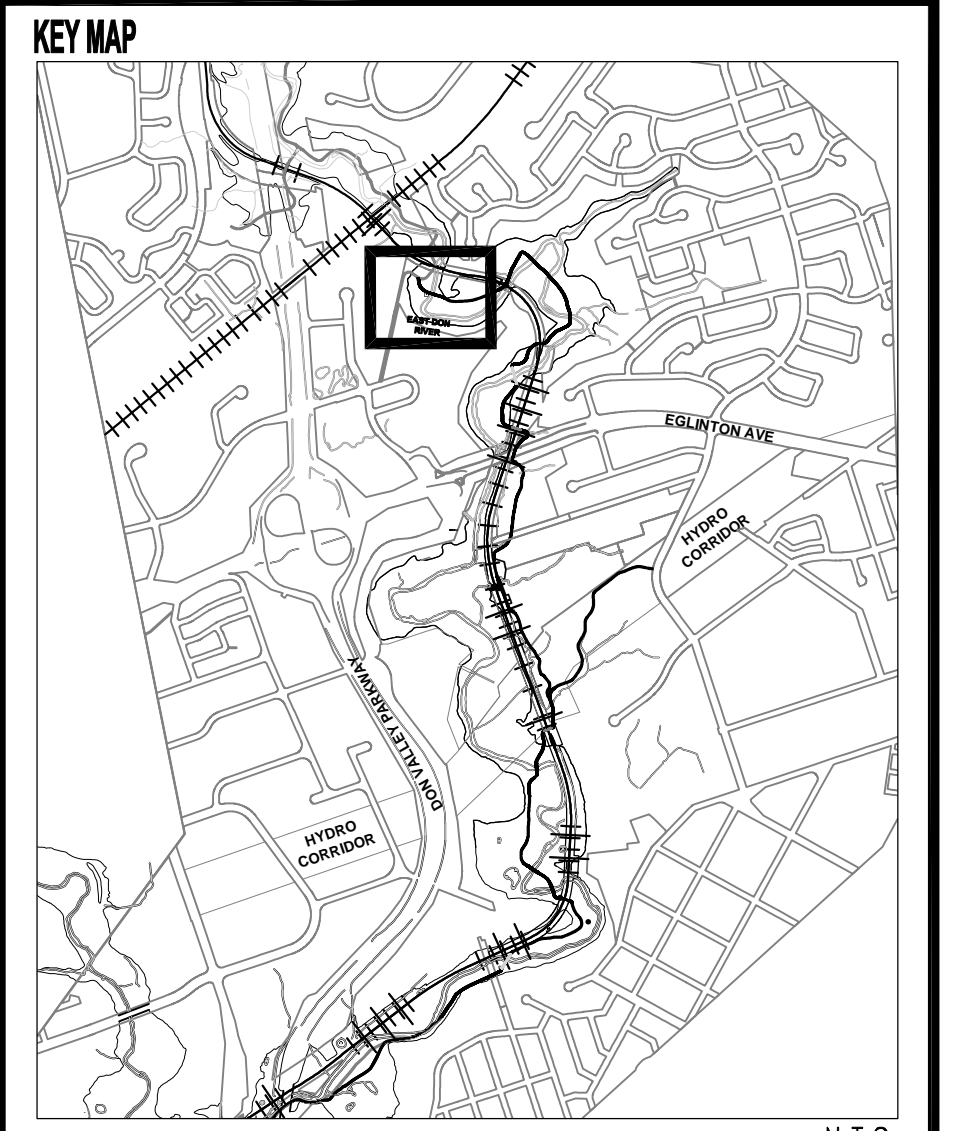
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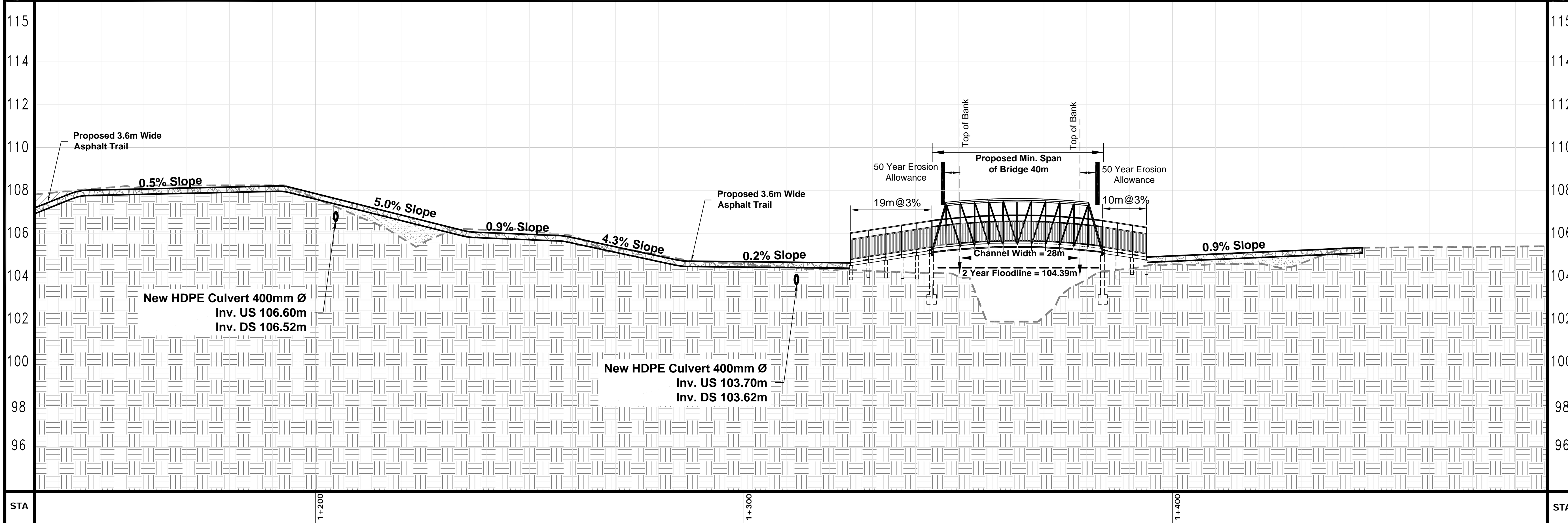
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**LEGEND**

- BALA RAIL LINE
- EXISTING TRAIL
- CONTOURS
- MANHOLE
- SANITARY SEWER
- STORM SEWER
- PROPERTY LINES
- 1-2 YEAR FLOODLINE
- 1-5 YEAR FLOODLINE
- REGIONAL FLOODLINE
- MULTI-USE TRAIL
- RIVER / CREEK
- BOARDWALK



NO.	DATE	BY	REVISIONS
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1	24/10/17	RA/OC	ISSUED FOR TENDER

**Aquafor Beech Limited**

#6-202-2600 SKYMARK AVE.  
MISSISSAUGA, ONTARIO, L4W 5B2  
PHONE: (905) 629-0099, FAX: (905) 629-0089

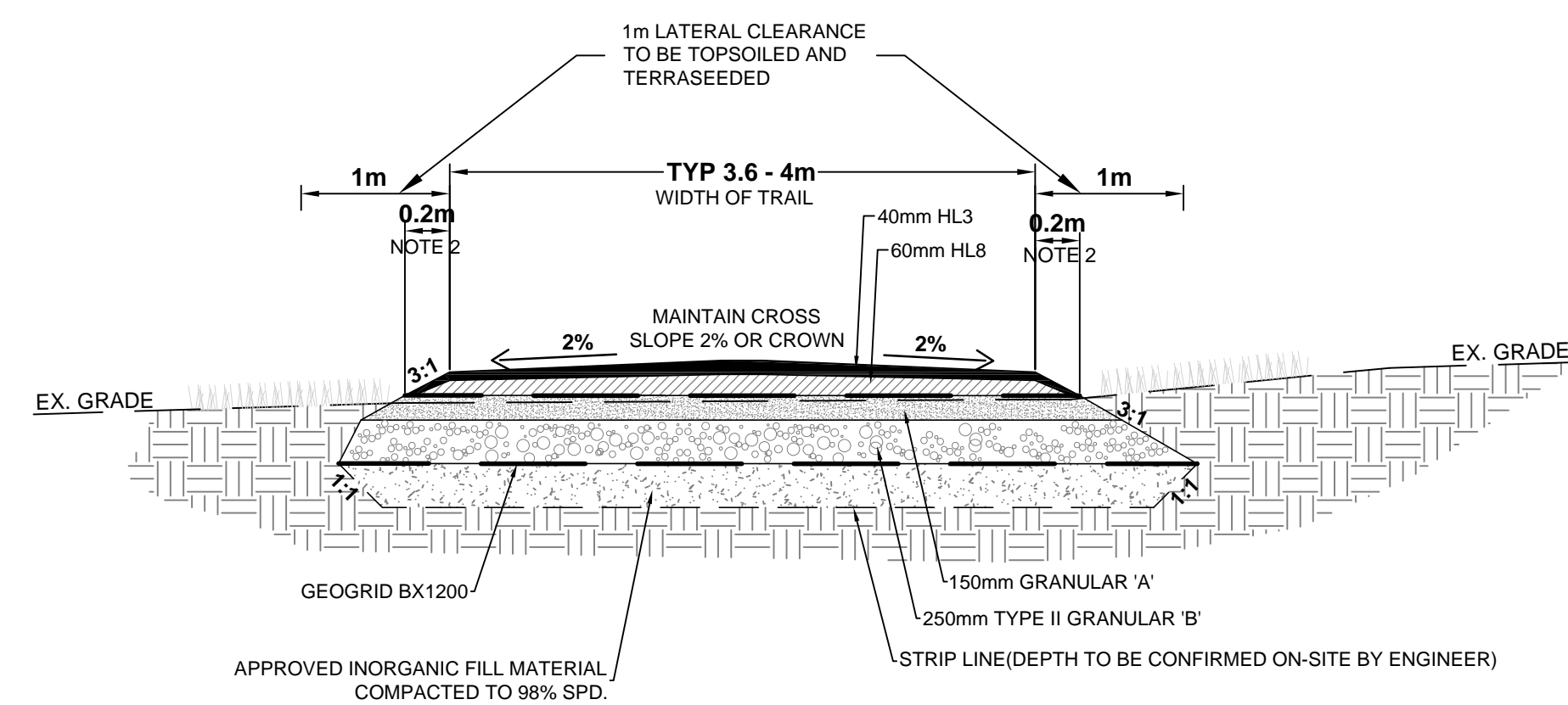
**EAST DON TRAIL**  
PLAN AND PROFILE - 19

DWG. No. **S** DESIGN BY

SCALE: HOR-1:500  
VER-1:100  
SHEET No. **20**



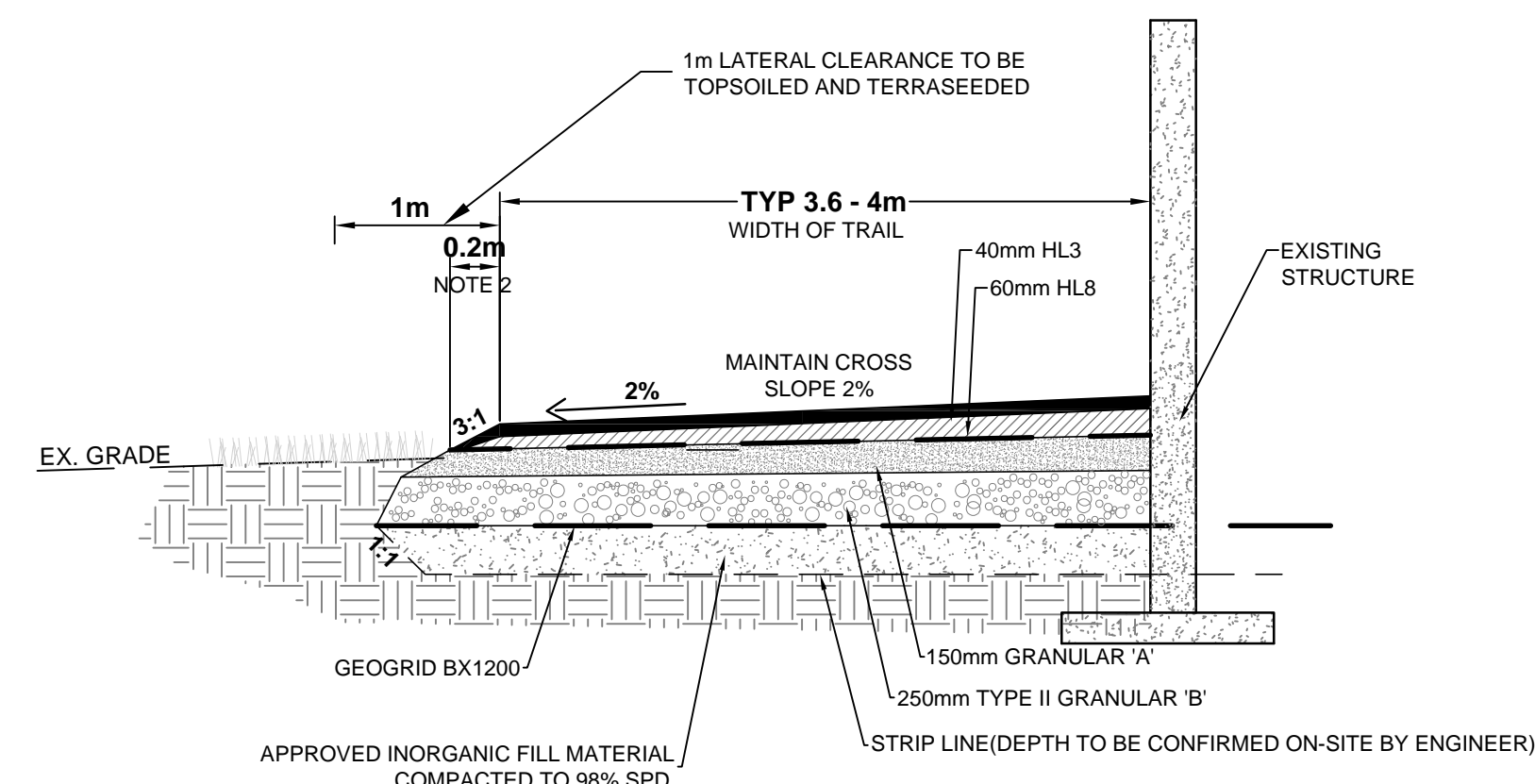
DETAIL 1 - TYPICAL CROSS SECTION (3.6-4m WIDE)



- NOTE:
1. MAINTAIN SHEET FLOW DRAINAGE WHENEVER POSSIBLE OVER WALKWAY.
  2. EXCAVATION OF TOPSOIL TO BE 200mm BEYOND EDGE OF FINISHED TRAIL SURFACE. ENSURE POSITIVE DRAINAGE OF SHOULDERS.
  3. TYPICAL FINISH GRADE ELEVATION OF TRAIL WILL BE 150mm HIGHER THAN EXISTING SURROUNDING GRADE.
  4. WHERE EXISTING TOPSOIL DEPTH IS DEEPER THAN 200mm OR SOFT SPOTS ARE FOUND PROVIDE TENSAR BX1200 GEOGRID INSTALLED BETWEEN SUBBASE AND COMPACTED SUBGRADE.

N.T.S

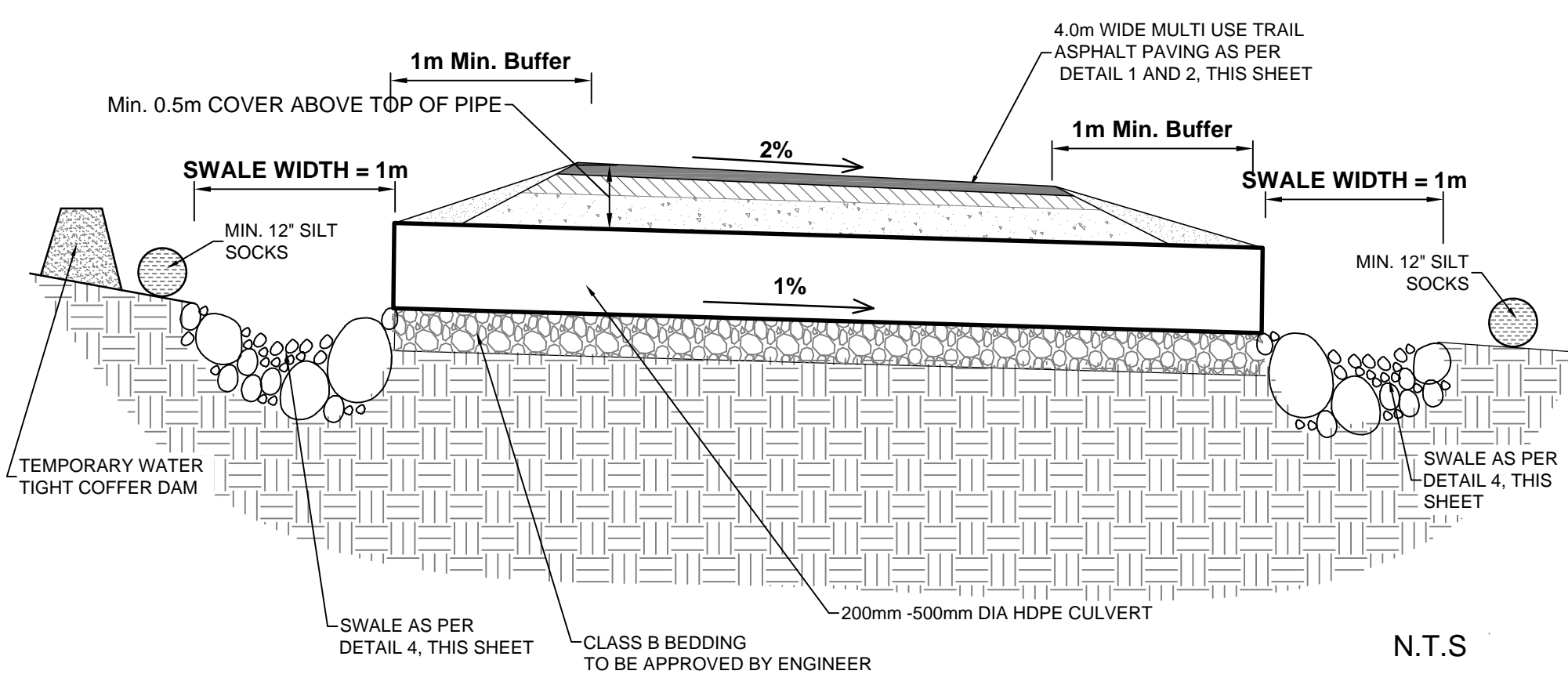
DETAIL 2 - TYPICAL TRAIL SECTION (4m WIDE)



- NOTE:
1. MAINTAIN SHEET FLOW DRAINAGE WHENEVER POSSIBLE OVER WALKWAY.
  2. EXCAVATION OF TOPSOIL TO BE 200mm BEYOND EDGE OF FINISHED TRAIL SURFACE. ENSURE POSITIVE DRAINAGE OF SHOULDERS.
  3. TYPICAL FINISH GRADE ELEVATION OF TRAIL WILL BE 150mm HIGHER THAN EXISTING SURROUNDING GRADE.
  4. WHERE EXISTING TOPSOIL DEPTH IS DEEPER THAN 200mm OR SOFT SPOTS ARE FOUND PROVIDE TENSAR BX1200 GEOGRID INSTALLED BETWEEN SUBBASE AND COMPACTED SUBGRADE.

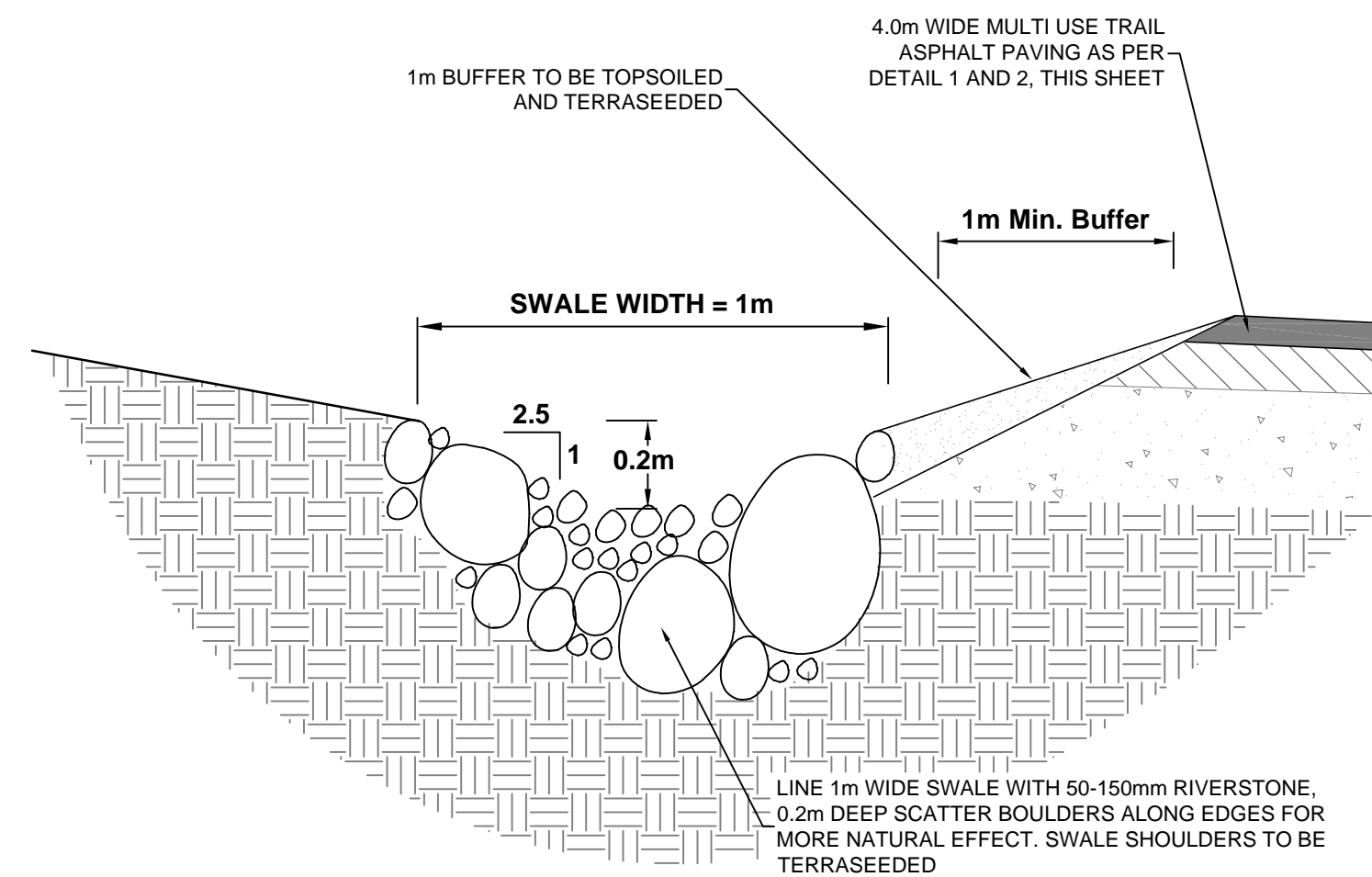
N.T.S

DETAIL 3 - HDPE CULVERT UNDER TRAIL SECTION (4m WIDE)



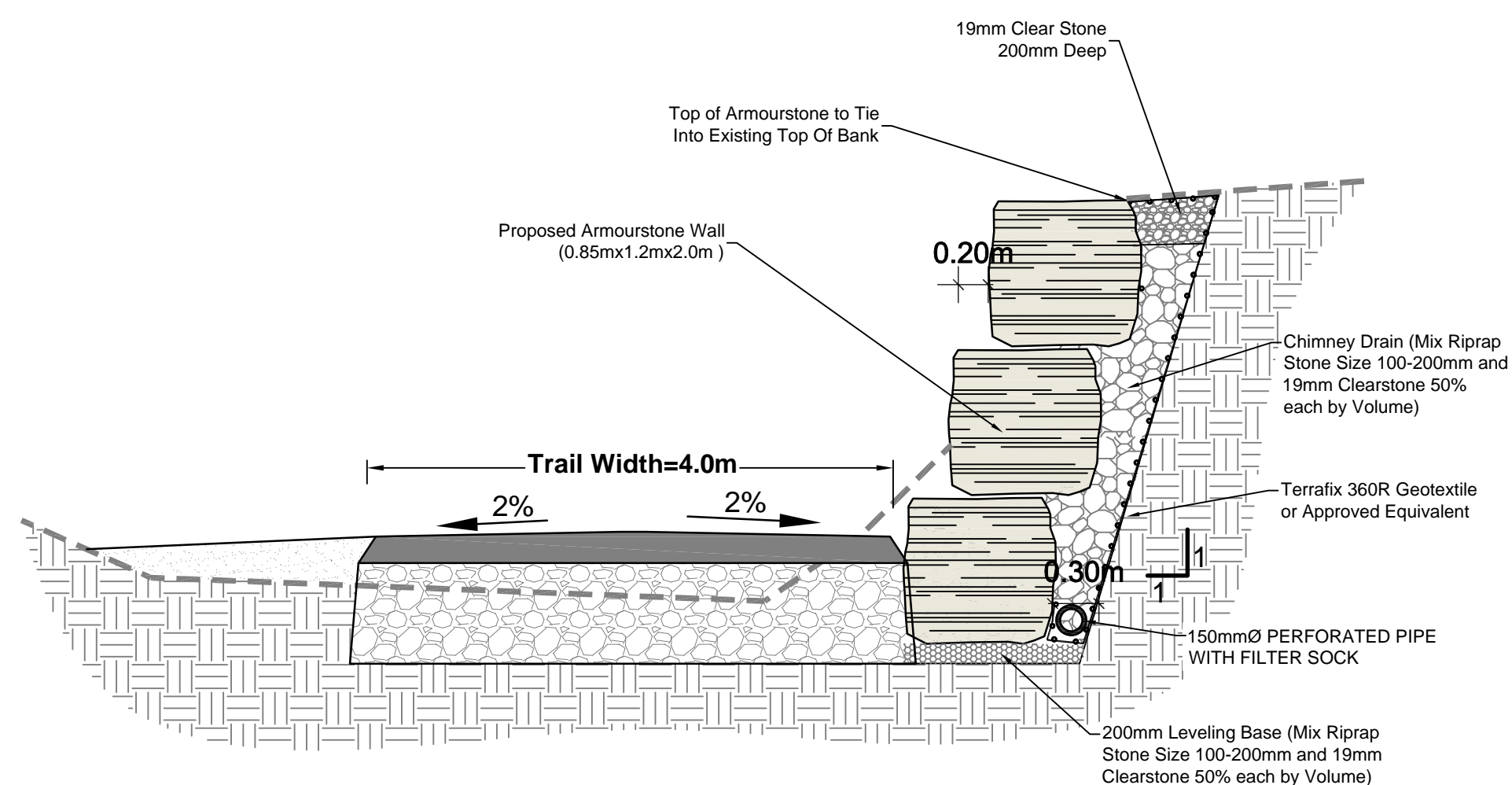
N.T.S

DETAIL 4 - TYPICAL SWALE DETAIL



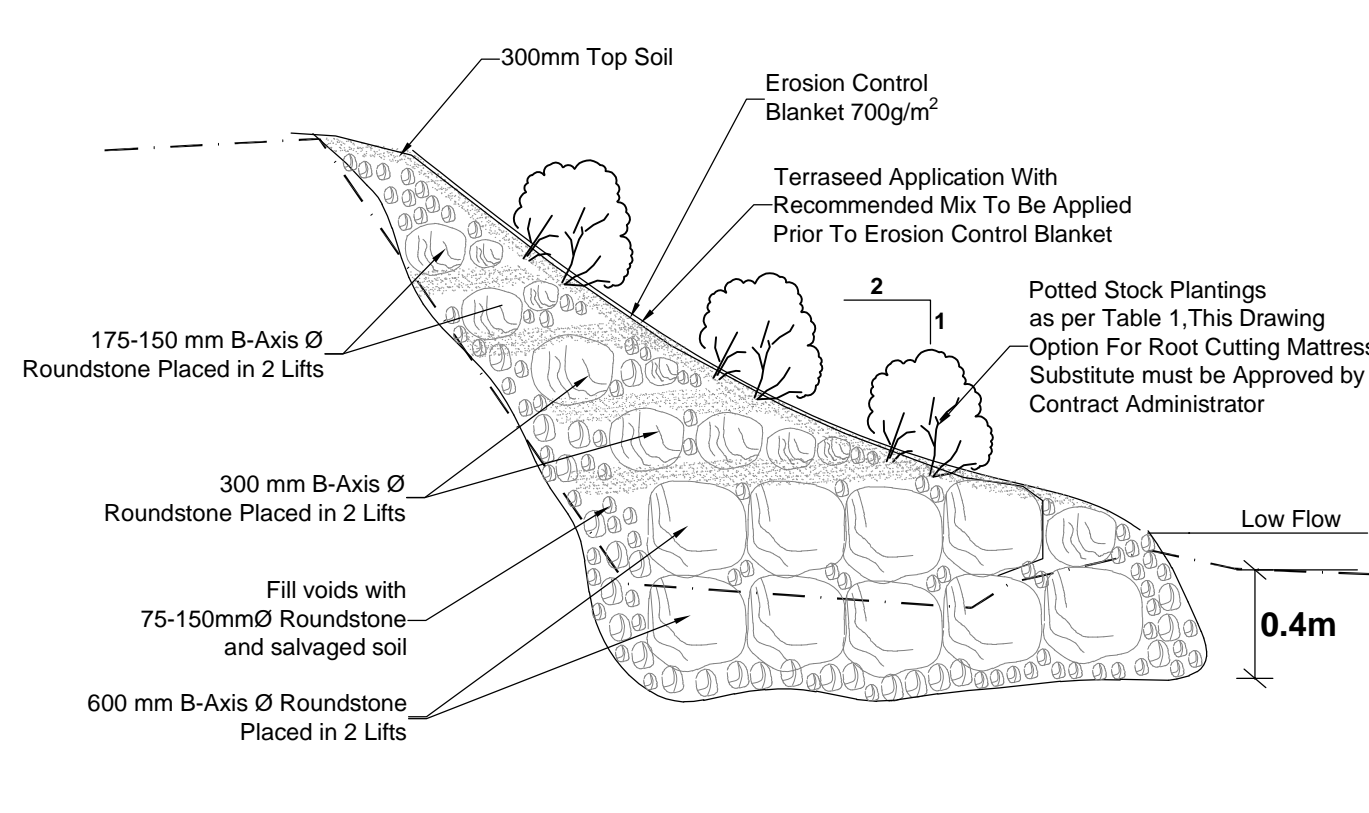
N.T.S

DETAIL 5 - TYPICAL ARMOURSTONE WALL ALONG TRAIL



N.T.S

DETAIL 6 - VEGETATED BUTTRESS



- NOTES:
1. 300MM TOPSOIL TO BE PLACED BETWEEN EACH LIFT TO CREATE ROOT ZONE FOR VEGETATION.
  2. EROSION CONTROL BLANKET MAY BE MADE OF AGRICULTURAL MATERIAL WITH BIODEGRADABLE COIR OR LITE NETTING.
  3. ALL POTTED STOCK WILL BE INSET INTO THE 300MM TOPSOIL LIFT BETWEEN STONE LAYERS.

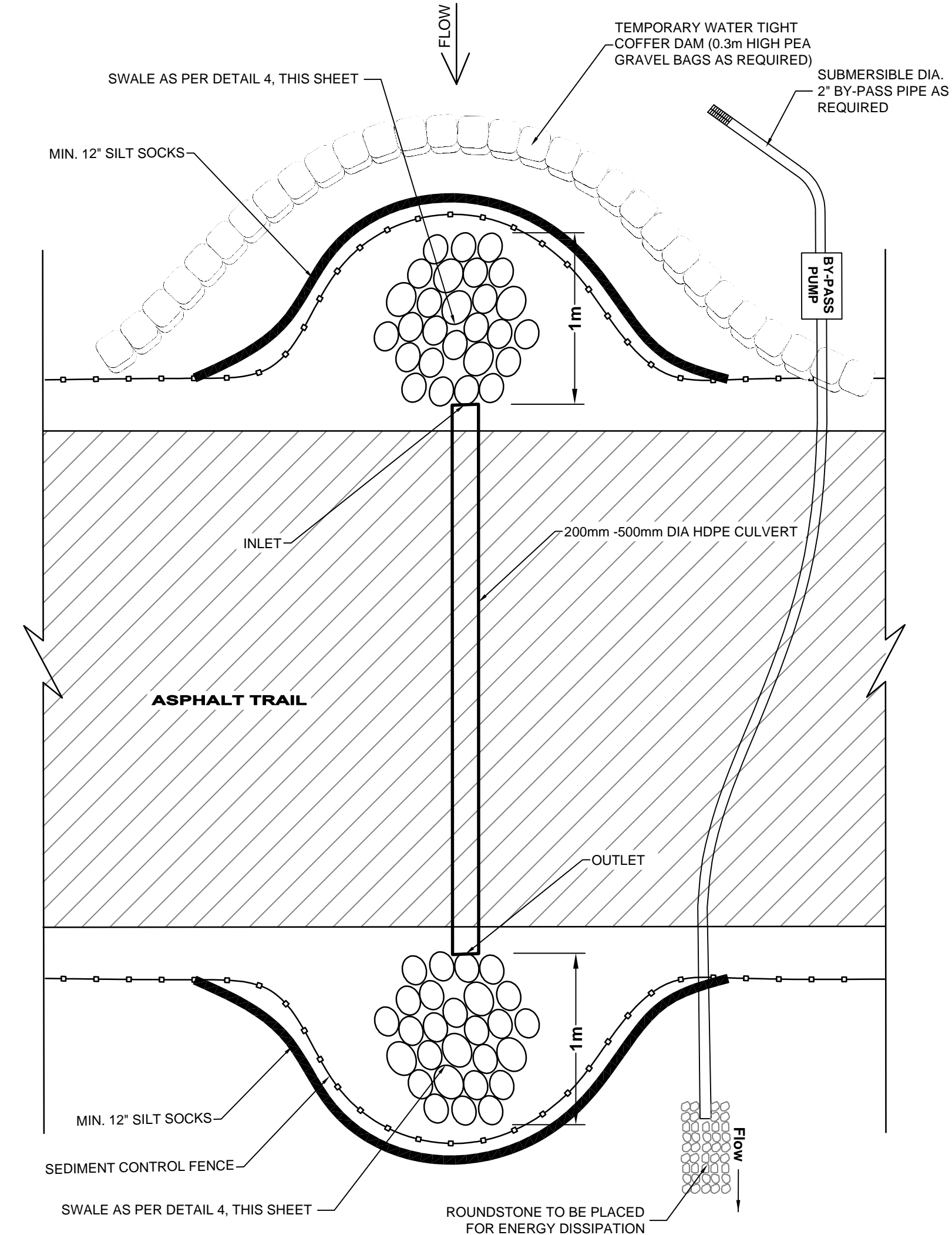
N.T.S

TABLE 1 - PLANTS FOR VEGETATED BUTTRESS

Qty (pc)	Common Name	Botanical name	Form	Spacing
60	Pussy Willow	Salix Discolor	1L Potted	0.5m
60	Bebb's Willow	Salix Bebbiana	1L Potted	0.5m
60	Meadow Willow	Salix Petiolaris	1L Potted	0.5m
60	Wild Black Currant	Ribes Americanum	1L Potted	0.5m

TOTAL=240

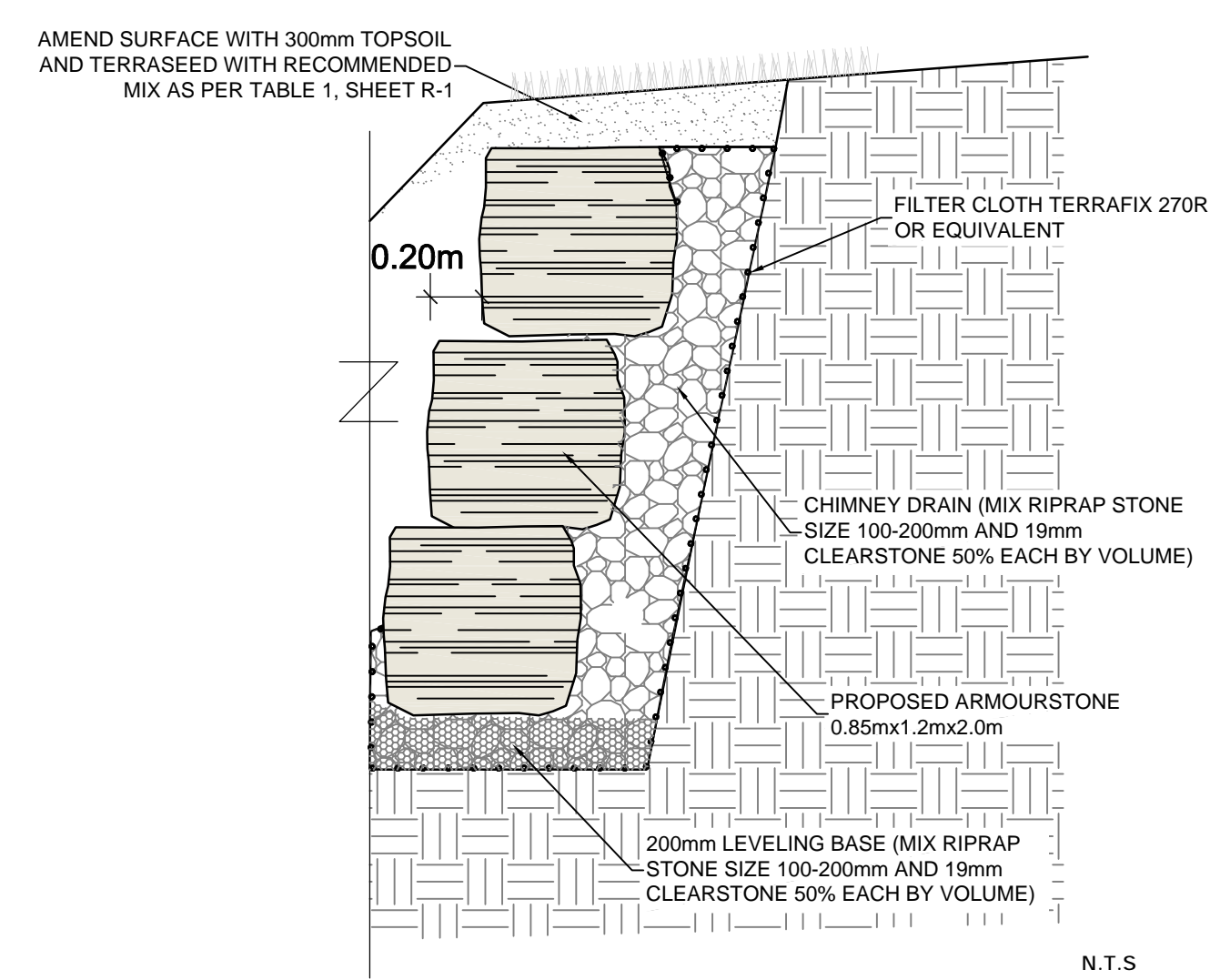
DETAIL 7 - TYPICAL PLANFORM OF HDPE CULVERT



NOTE:

1. THE SILT SOCKS MAY BE VEGETATED AND LEFT IN PLACE.

DETAIL 8 - TYPICAL BURIED ARMOURSTONE WALL

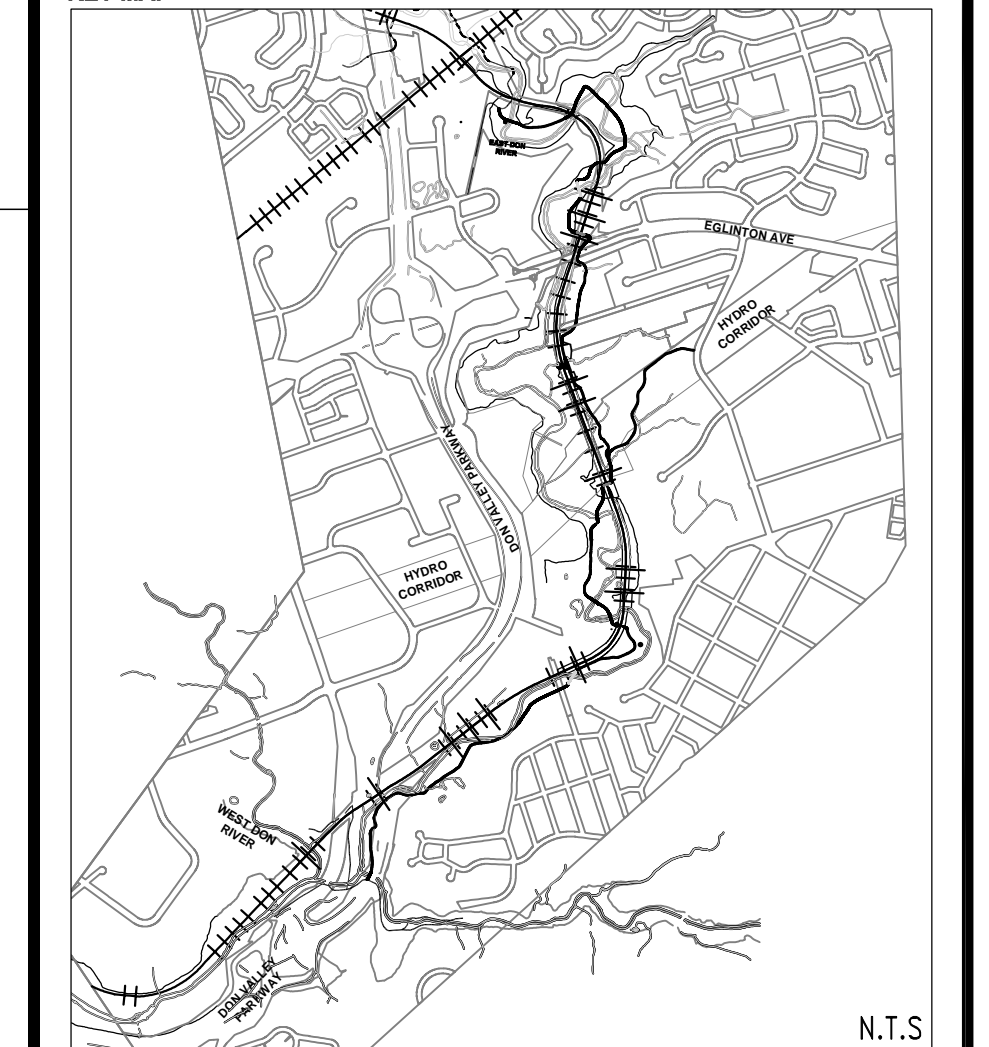


N.T.S

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**BEFORE STARTING WORK**  
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KEY MAP



N.T.S

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PHASE 2  
**EAST DON TRAIL**  
CONSTRUCTION DETAILS

DWG. No.

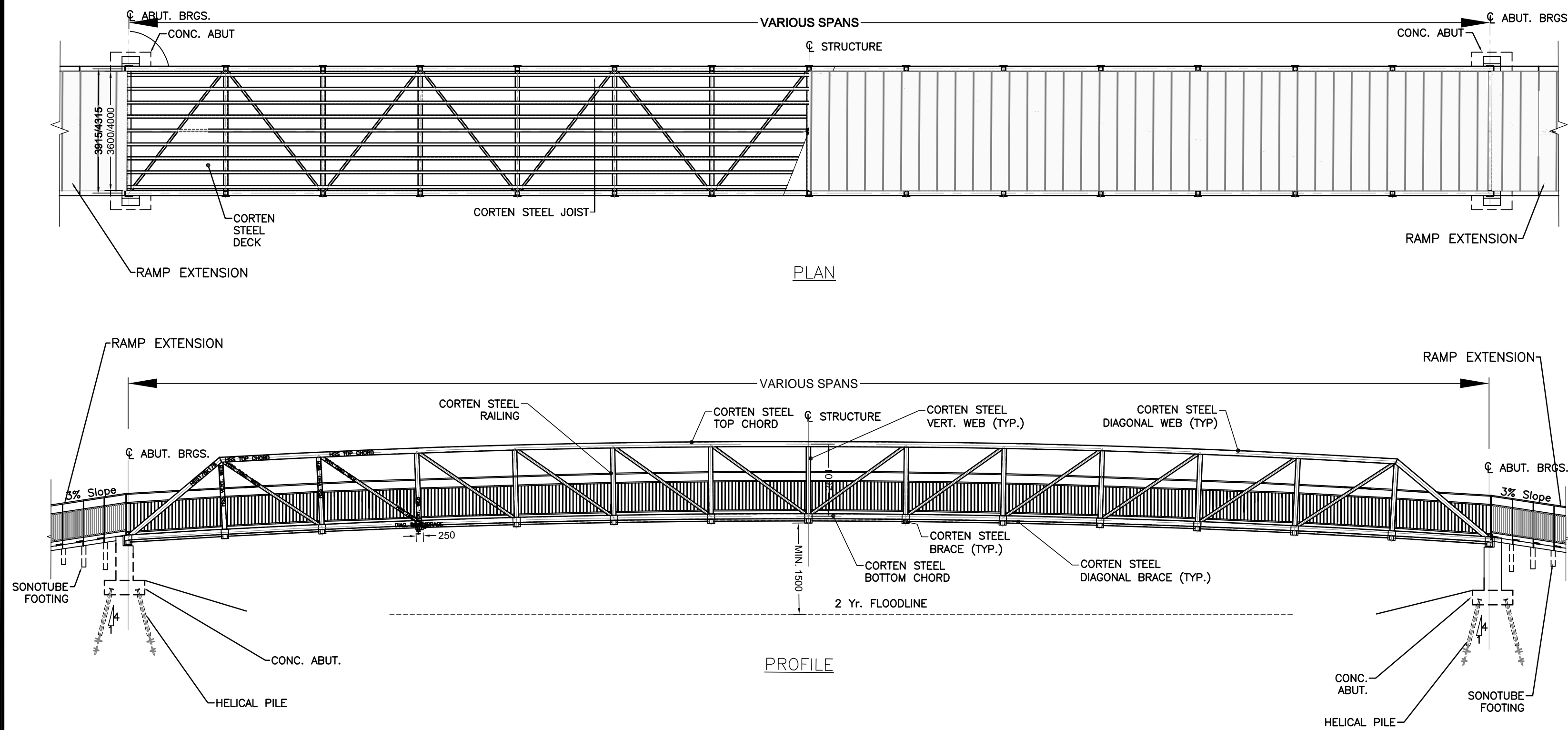
**CD-1**



SCALE: HOR-1:250  
VER-1:100  
SHEET No.



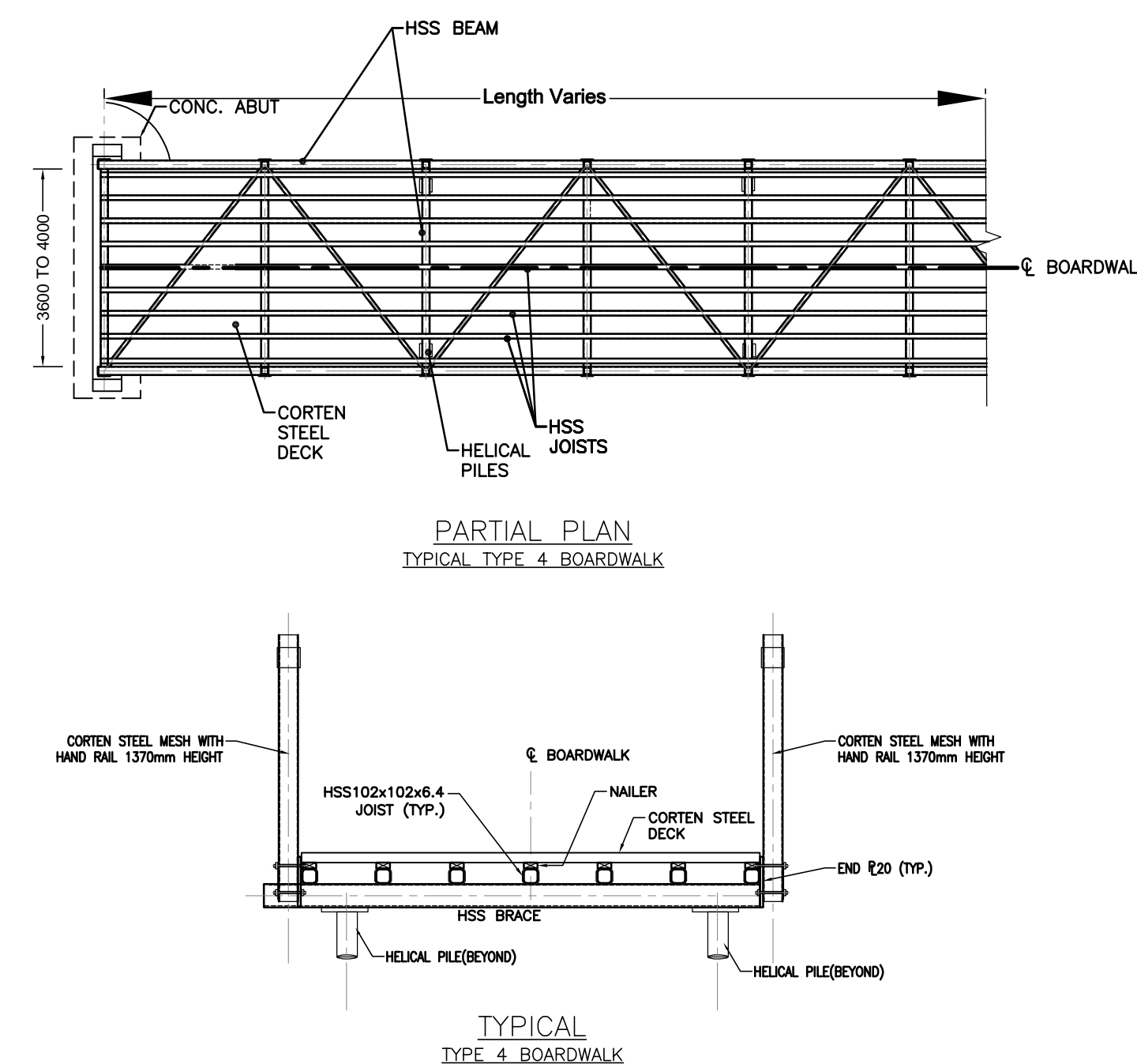
### TYPICAL PERMANENT BRIDGE DETAIL



### PERMANENT BRIDGE SCHEDULE - PHASE 2

BRIDGE NO.	SPAN / LENGTH (m)	WIDTH(m)	SOFFIT ELEVATION - CENTRE (m)	SOFFIT ELEVATION - RIGHT (m)	SOFFIT ELEVATION - LEFT (m)	RAMP LENGTH - LEFT (m)	RAMP LENGTH - RIGHT (m)
7	40	3.6	104.09	103.84	103.84	0	0
8	60	3.6	106.50	107.00	104.96	0	0
9	40	4	105.34	105.10	105.10	19	10

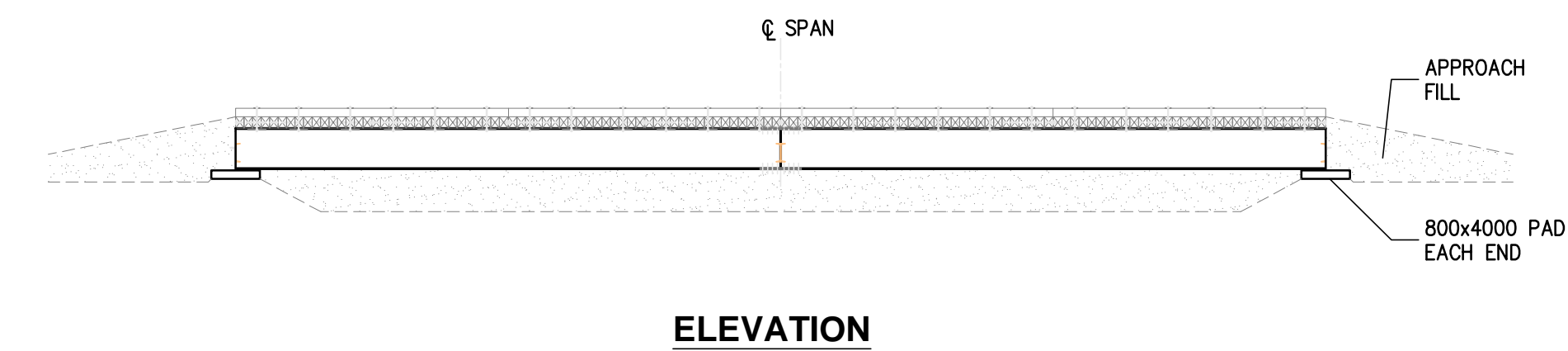
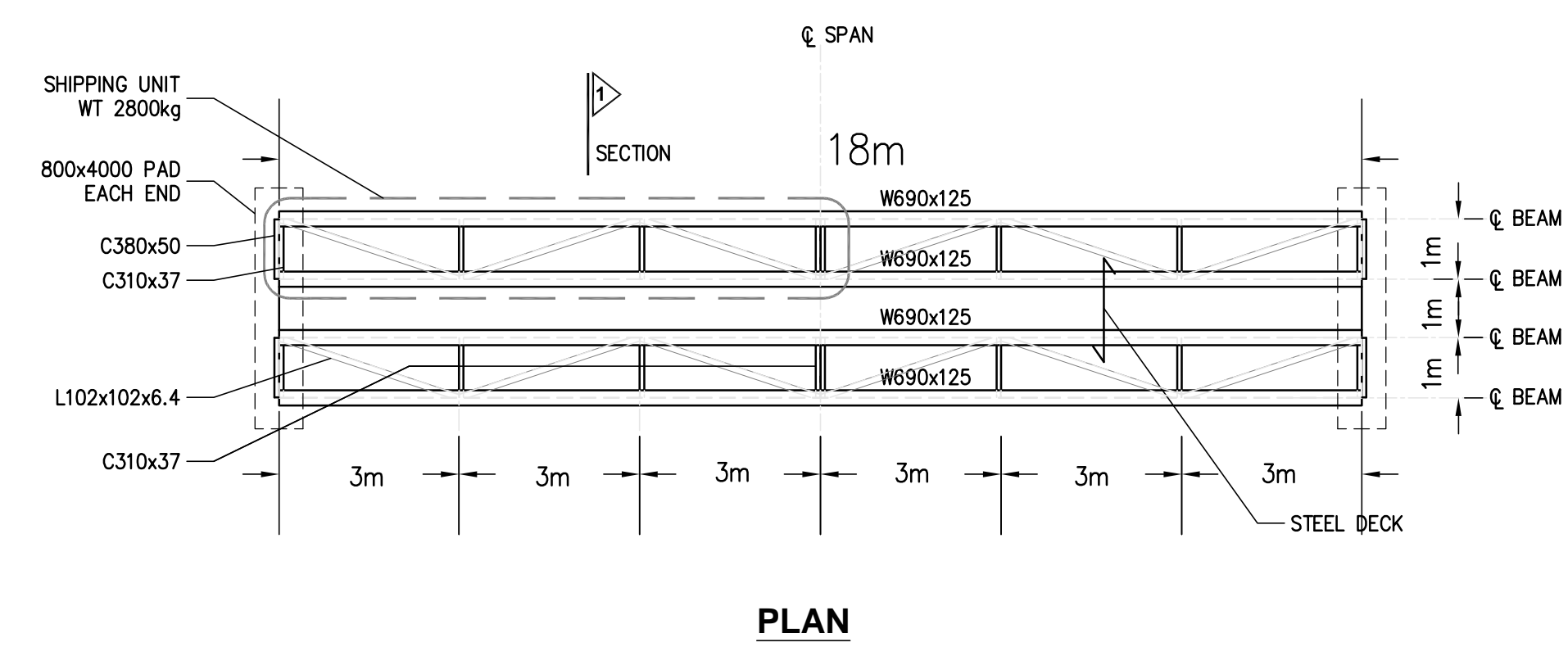
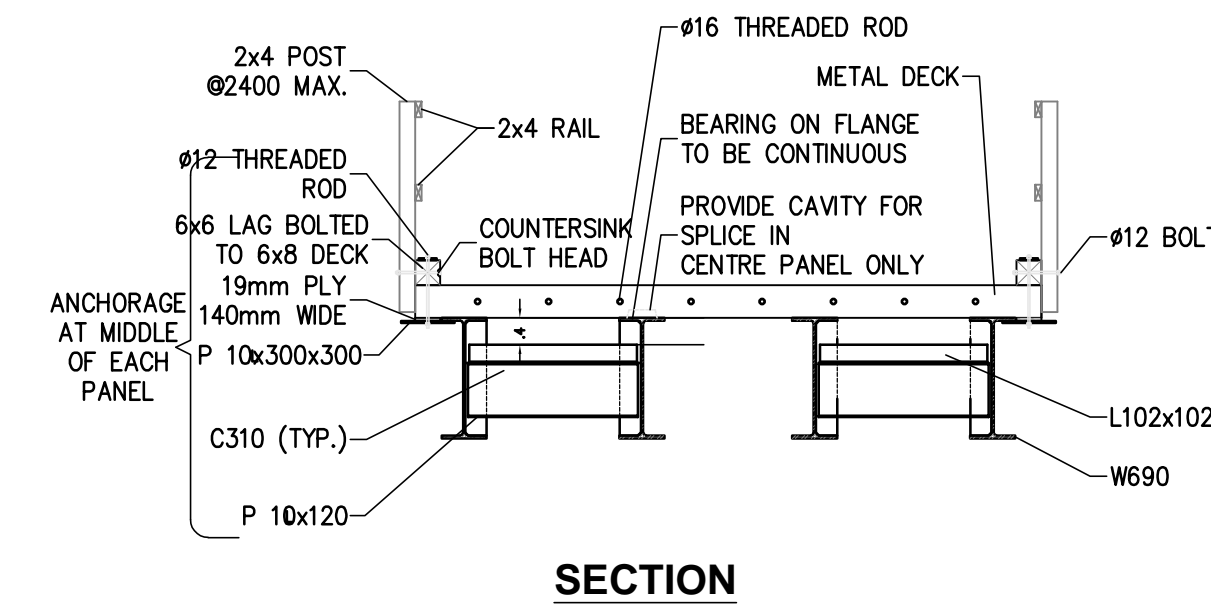
### TYPICAL BOARDWALK DETAIL



### BOARDWALK SCHEDULE - PHASE 2

BOARDWALK NO.	SPAN / LENGTH (m)	WIDTH(m)
3	35	3.6

### TYPICAL TEMPORARY CONSTRUCTION BRIDGE DETAIL



### CONSTRUCTION BRIDGE SCHEDULE - PHASE 2

BRIDGE NO.	SPAN / LENGTH (m)	WIDTH(m)	MIN. SOFFIT ELEVATION - CENTRE (m)
6	35	3	101.35
7	28	3	101.95
8	23	3	102.66
9	40	3	104.52

#### NOTES:

#### STRUCTURE

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND FABRICATE THE BRIDGE IN CONFORMANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CHBDC, CANCSA-98), THE CANADIAN NATIONAL BUILDING CODE (CNBC, 2005), AND WITH ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT, 2005 (AODA). THE ENGINEER MAY REFER TO INTEGRATED ACCESSIBILITY STANDARDS REGULATION GUIDELINES (APRIL, 2014) FOR DESIGN RECOMMENDATIONS.
- THE STRUCTURE IS TO BE THE TYPE AND DIMENSIONS AS SHOWN AS TYPICAL THE CONTRACT DRAWINGS, DESIGNED AND STAMPED BY TWO ONTARIO PROFESSIONAL ENGINEERS.
- THE BRIDGE IS TO BE EAGLE BRIDGE OR APPROVED EQUAL, CONSISTING OF TWO TRUSSES AND LATERAL BRACING BELOW THE FLOOR SYSTEM.
- THE DESIGNED BEARING/SURCHARGE CAPACITY FOR THE BRIDGES SHALL BE 8 KPA AND SHALL SUPPORT THE WEIGHT OF OCCASIONAL ACCESS FOR MEDIUM TRUCKS AND LIGHT EMERGENCY VEHICLES (IE. AMBULANCES).
- THE WALKING SURFACE SHALL BE 4 METRES WIDE, UNLESS OTHERWISE NOTE, WITH NO ENCROACHMENTS INTO THIS SPACE BY RAILING OR CURB STRUCTURES. THE FLOOR SYSTEM SHALL BE ANTI-SLIP SELF WEATHERING STEEL DECKING.
- RAILING HEIGHTS SHALL BE A MINIMUM OF 1.37 M HIGH IN ORDER TO SATISFY CYCLING SAFETY REQUIREMENTS. HAND RAILINGS SHALL BE STAINLESS STEEL.
- EACH STRUCTURE SHALL MEET THE DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS AND NOTED IN THE ADJACENT TABLE.
- TEMPORARY BRIDGES ARE TO BE ANCHORED TO PREVENT LOSS UNDER HIGH WATER SCENARIOS.

#### CONCRETE

- ALL WORKS SHALL BE IN COMPLIANCE WITH OPSS 501, OPSS904, OPSS 905, OPSS 919, AND OPSS 920. WHERE REQUIRED, OPSS 903 WILL APPLY.
- ALL CONCRETE PRODUCTION AND PLACEMENT TO CONFIRM TO CSA STANDARD CAN3.A23.1-M.
- ABUTMENTS = 30 MPA, 5-7% AIR ENTRAINMENT.
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CSA STANDARD G30.18, GRADE 400.

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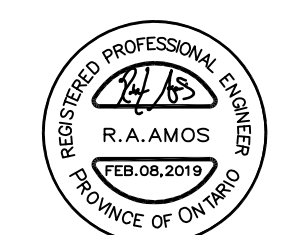
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PHASE 2  
**EAST DON TRAIL**  
BRIDGE & BOARDWALK - DETAILS & SCHEDULE

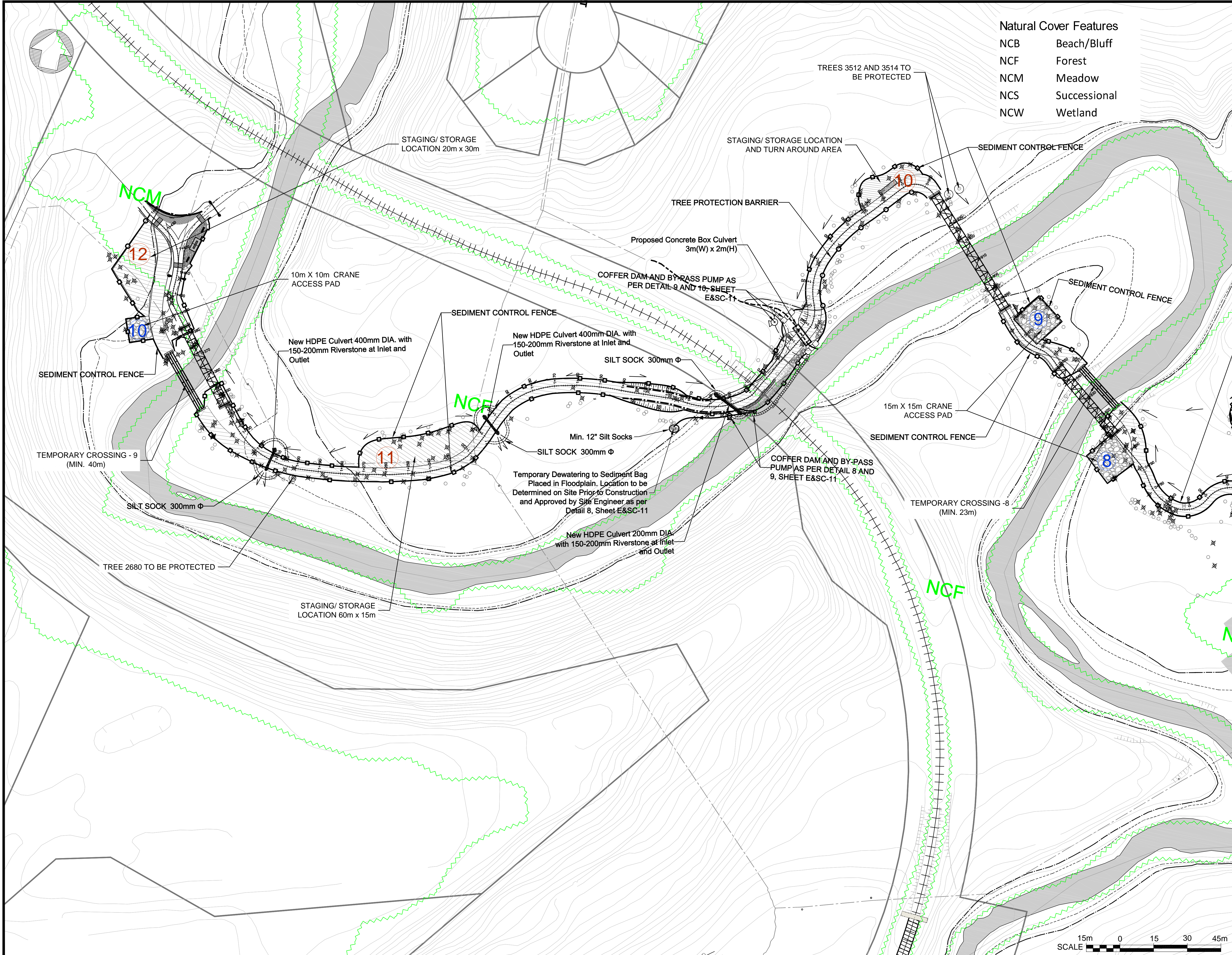
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**CD-2**



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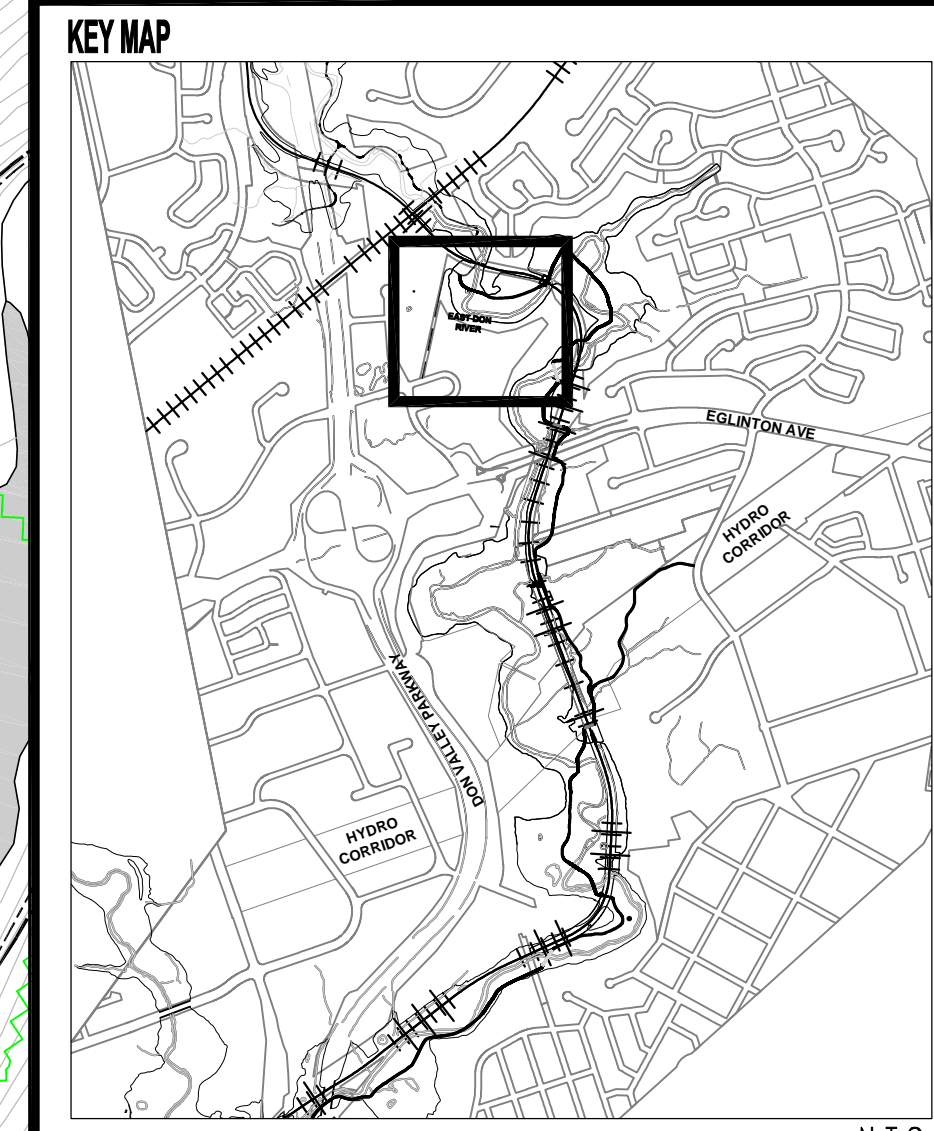




**Natural Cover Features**  
 NCB Beach/Bluff  
 NCF Forest  
 NCM Meadow  
 NCS Successional  
 NCW Wetland

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**LEGEND**

- ++++ RAIL LINE
- CONTOURS
- MANHOLE
- SANITARY SEWER
- STORM SEWER
- PROPERTY LINES
- x--- CONSTRUCTION FENCE
- SEDIMENT CONTROL FENCE
- TREE PROTECTION BARRIER (SECURED FAST FENCE)
- DRAINAGE SWALE
- ① STAGING AREAS/TURNAROUND
- ② CRANE PADS
- CONSTRUCTION DRAINAGE
- SILT SOCK
- 5 YEAR FLOOD LINE
- 2 YEAR FLOOD LINE
- ⊗ TREE TO BE REMOVED
- TREE TO BE IMPACTED
- NATURAL COVER LINE

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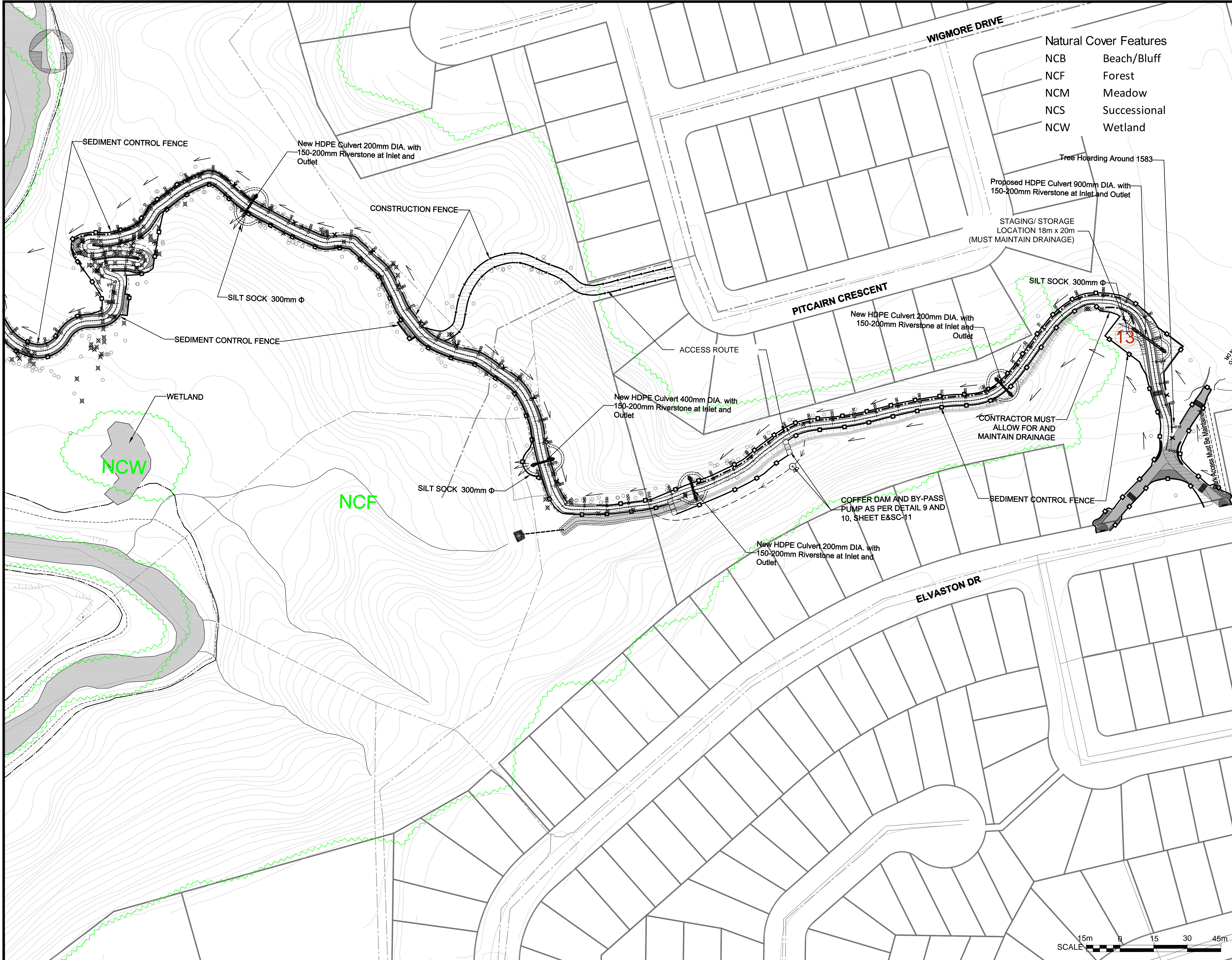
**Aquafor Beech Limited**  
 #6-202-2600 SKYMARK AVE.  
 MISSISSAUGA, ONTARIO, L4W 5B2  
 PHONE: (905) 629-0099, FAX: (905) 629-0089

**EAST DON TRAIL**

DWG. No. \_\_\_\_\_ DESIGNED BY: \_\_\_\_\_  
**E&SC-7**  
 SCALE: 1:750  
 SHEET No. **7**



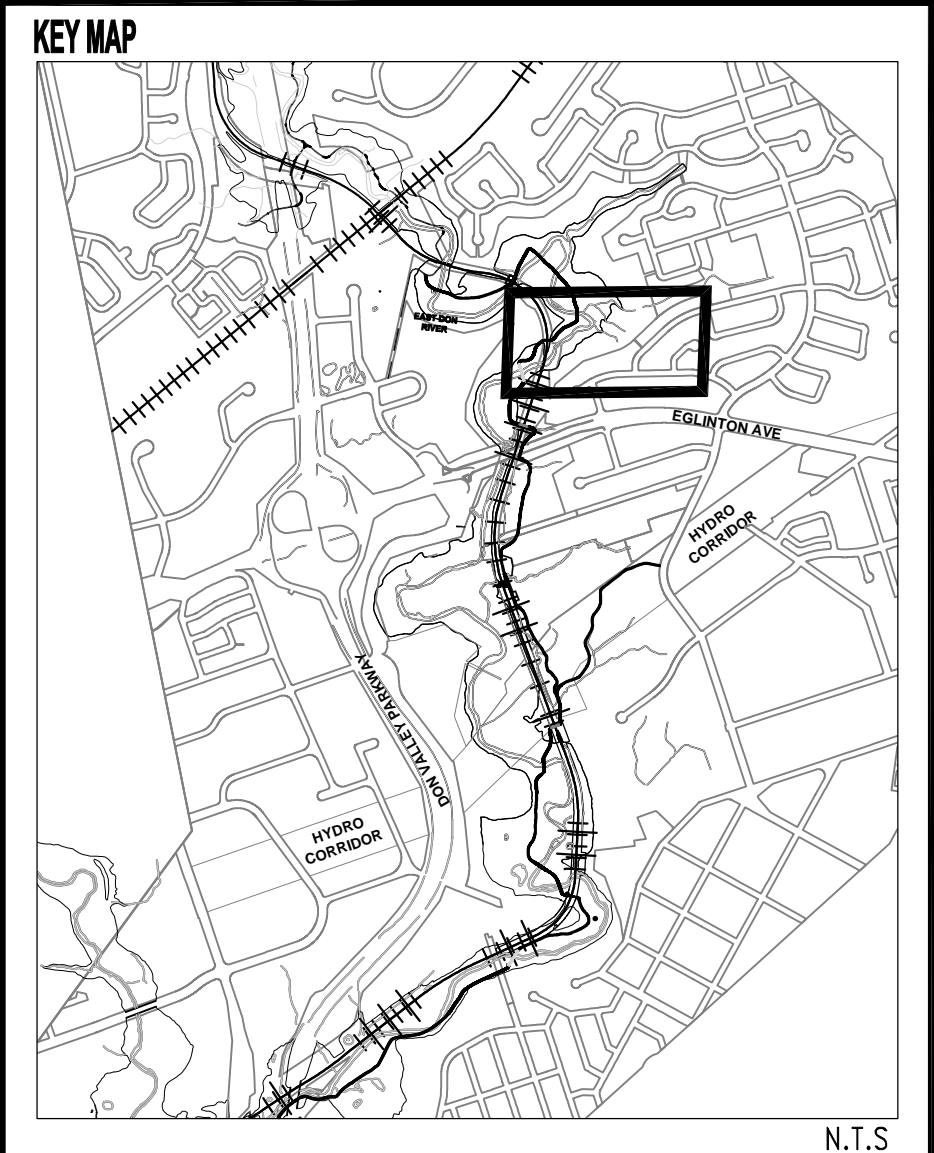




- Natural Cover Features**
- NCB Beach/Bluff
  - NCF Forest
  - NCM Meadow
  - NCS Successional
  - NCW Wetland

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- LEGEND**
- RAIL LINE
  - CONTOURS
  - MANHOLE
  - SANITARY SEWER
  - STORM SEWER
  - PROPERTY LINES
  - CONSTRUCTION FENCE
  - SEDIMENT CONTROL FENCE
  - TREE PROTECTION BARRIER (SECURED FAST FENCE)
  - DRAINAGE SWALE
  - STAGING AREAS/TURNAROUND
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**EAST DON TRAIL**

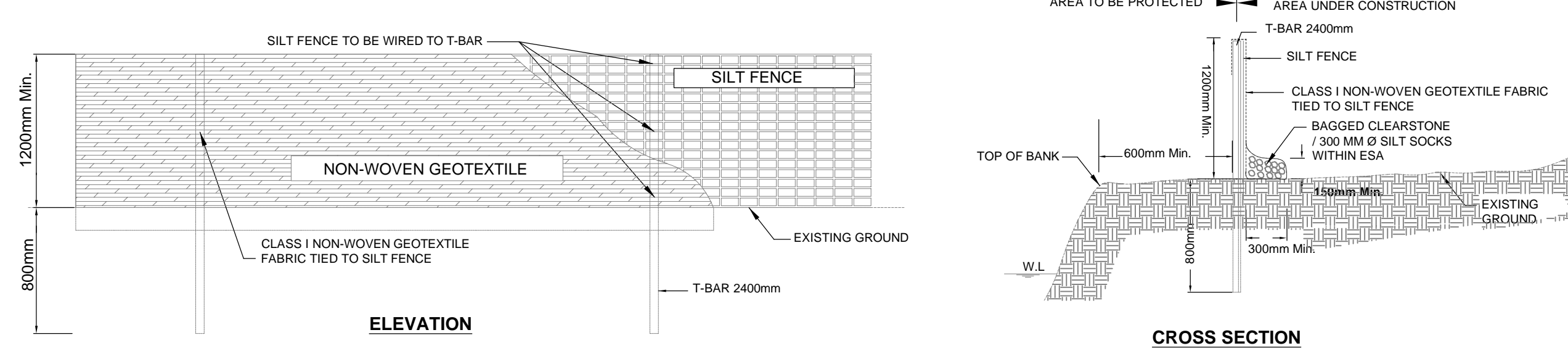
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SCALE: 1:750 SHEET No. **8**



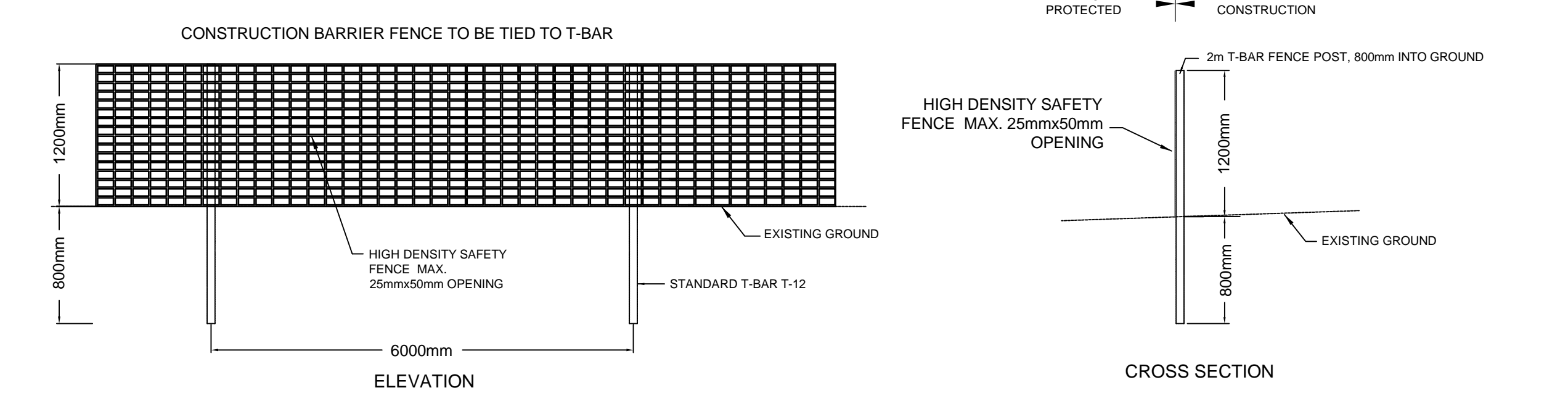


**DETAIL 1 - SEDIMENT CONTROL FENCE - TRENCHLESS APPLICATION**



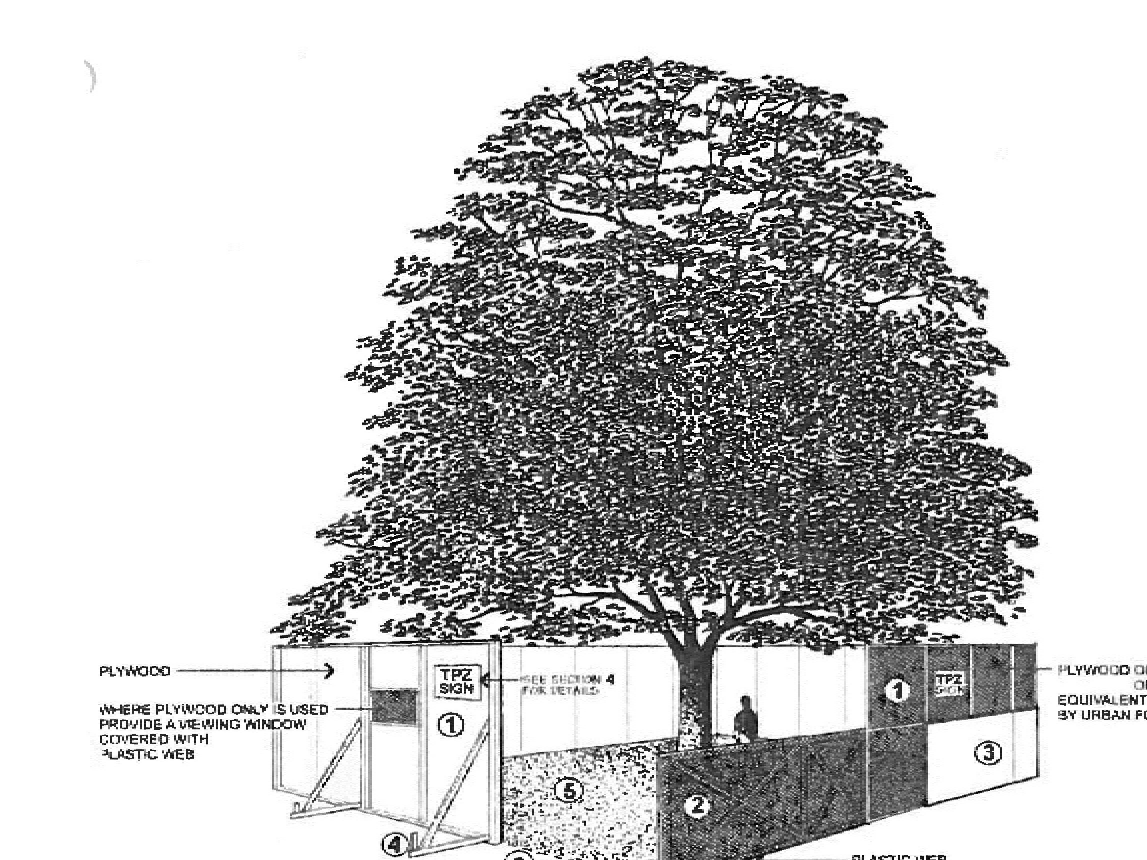
**NOTES:**  
 - FROZEN GROUND APPLICATION INCLUDING CONTINUOUS BAGGED CLEARSTONE PLACED ON TOP OF FILTER CLOTH.  
 - FILTER CLOTH SHALL BE HORIZONTALLY OVERLAPPED 500mm.  
 - SILT FENCE INSTALLATION WORK SHALL AVOID THE DESTRUCTION OF EXISTING WOODY VEGETATION (IE. SHRUBS AND TREES) OTHER THAN THOSE SPECIES WHICH HAVE BEEN APPROVED FOR REMOVAL.  
 - IN CASE OF ANY CONFLICT WITH ANOTHER PLAN, THIS PLAN PREVAILS ONLY IN RESPECT TO CONSTRUCTION ACCESS, SILT FENCE, SECURITY FENCING, SEDIMENT CONTROL, AND MUD MATS.

**DETAIL 2 - CONSTRUCTION FENCE**



**NOTES:**  
 - CONSTRUCTION FENCE SHALL BE MANUFACTURED OF POLYETHYLENE WITH NOMINAL SIZE OF MAX. 25MM X 50MM.  
 - FENCE SHALL BE 1300 MM HIGH AND SHALL BE SUPPLIED IN ROLL.  
 - COLOR SHALL BE "INTERNATIONAL ORANGE"

**DETAIL 3 - TREE PROTECTION BARRIER**



- Tree Protection Barriers**
- Tree protection barriers must be a plywood or plastic web hoarding or equivalent as approved by Urban Forestry.
  - Tree protection barriers for trees situated on the City road allowance where visibility must be maintained can be 1.2m (4ft.) high and consist of orange plastic web snow fencing on a wood frame made of 2x4's.
  - Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
  - All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.
  - No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.
  - Sediment control fencing shall be installed in locations indicated in an Urban Forestry approved Tree Protection Plan. The sediment control fencing must be installed to Ontario Provincial Standards (OPS-219-119) and to the satisfaction of Urban Forestry.

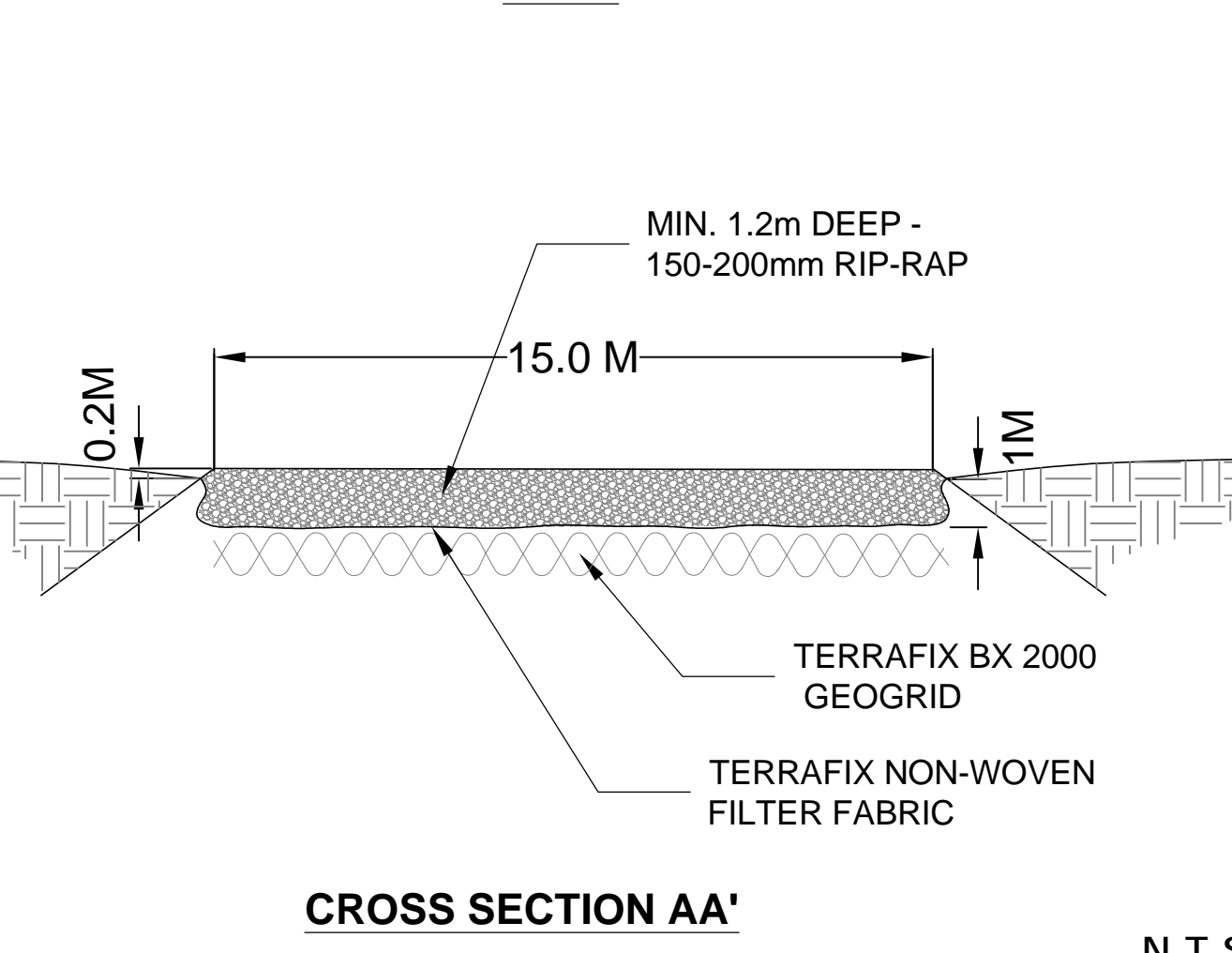
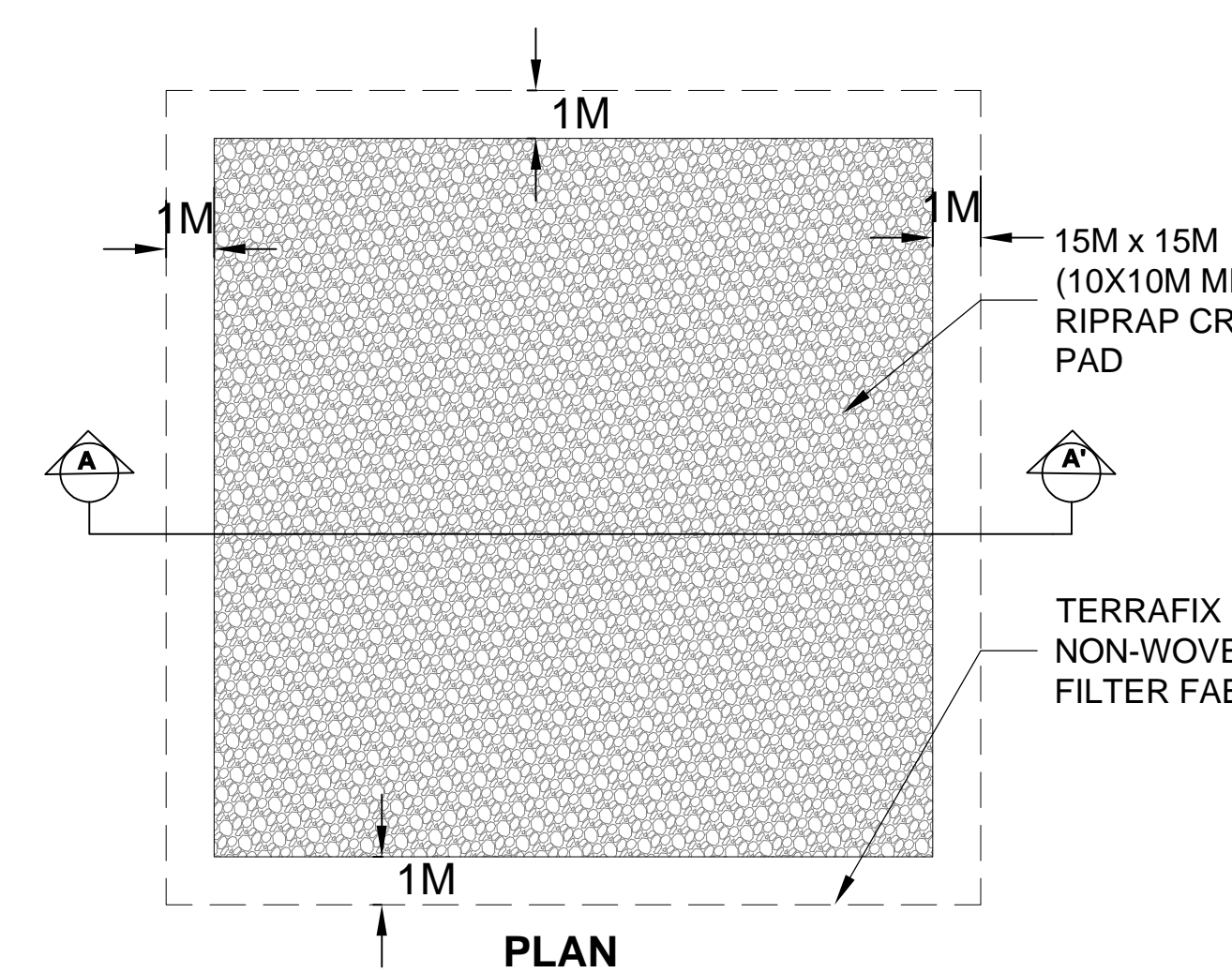
**TREE PROTECTION NOTES**

- ALL TREES LOCATED WITHIN THE PROJECT AREA DESIGNATED FOR PRESERVATION (REFER TO TREE RESTORATION PLAN) AND ALL TREES ON ADJACENT PROPERTIES SHALL BE PRESERVED. IN THE EVENT THAT ANY TREES DESIGNATED FOR PRESERVATION ARE DAMAGED OR KILLED BY THE ACTIONS OF THE CONTRACTOR OR THEIR AGENTS/SUB-CONTRACTORS, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF THE DESTROYED PLANT MATERIAL WITH MATERIAL OF EQUAL VALUE AND COMPARABLE SPECIES TO THE SATISFACTION OF THE PROJECT ARBORIST OR CONTRACT ADMINISTRATOR.
- AREAS WITHIN THE DRILLPIECE OF THE TREES DESIGNATED FOR PRESERVATION ARE NOT TO BE USED FOR ANY TYPE OF STORAGE (IE STORAGE OF DEBRIS, CONSTRUCTION MATERIAL, SURPLUS SOILS, AND CONSTRUCTION EQUIPMENT), NO TRENCHING OR TUNNELING FOR UNDERGROUND SERVICES SHALL BE LOCATED WITHIN THE TREE PROTECTION ZONE OR DRILLPIECE OF TREES DESIGNATED FOR PRESERVATION WITHIN OR ADJACENT TO THE CONSTRUCTION ZONE.
- NO GRADE CHANGES SHALL OCCUR WITHIN TREE PROTECTION ZONE. IN THE EVENT THAT GRADE CHANGES MUST OCCUR THE CONSULTING ARBORIST MUST BE NOTIFIED SO THAT PRECAUTIONS TO PRESERVE THE TREE, SUCH DRY WELLS OR ROOT FEEDING, CAN BE DETERMINED PRIOR TO THE PLACEMENT OF FILL OR EXCAVATION ACTIVITIES.
- TREES SHALL NOT HAVE ANY HINGING CABLES OR HARDWARE OF ANY SORT ATTACHED OR WRAPPED AROUND THEM, NOR SHALL ANY CONTAMINANTS BE DUMPED WITHIN THE PROTECTIVE AREAS FURTHERMORE, NO CONTAMINANTS SHALL BE DUMPED OR FLUSHED WHERE THEY MAY COME IN CONTACT WITH THE FEEDER ROOTS OF THE TREES.
- THE CONTRACTOR WILL TAKE EVERY PRECAUTION TO PREVENT DAMAGE TO TREES OR SHRUBS, INCLUDING PROTECTING THE STEM AND ROOT SYSTEMS FROM DAMAGE, COMPACTION, OR CONTAMINATION RESULTING FROM THE CONSTRUCTION TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR OR CONSULTING ARBORIST.
- TREES THAT REQUIRE PRUNING PRIOR TO CONSTRUCTION TO PERMIT CONSTRUCTION ACTIVITIES, HAVE BEEN IDENTIFIED IN THE TREE MANAGEMENT PLAN. IN THE EVENT THAT IT IS NECESSARY TO REMOVE ADDITIONAL LIMBS OR PORTIONS OF TREES AFTER CONSTRUCTION HAS COMMENCED, TO ACCOMMODATE CONSTRUCTION, THE CONSULTING ARBORIST IS TO BE INFORMED AND THE REMOVAL IS TO BE EXECUTED CAREFULLY AND IN FULL ACCORDANCE WITH ARBORICULTURAL TECHNIQUES BY A CERTIFIED ARBORIST.
- DURING EXCAVATION OPERATIONS IN WHICH ROOTS ARE AFFECTED, THE CONTRACTOR IS TO PRUNE ALL EXPOSED ROOTS CLEANLY. PRUNE ENDS TO POINT OBliquELY DOWNWARDS. THE EXPOSED ROOTS SHOULD NOT BE ALLOWED TO DRY OUT, AND THE CONTRACTOR SHALL DISCUSS WATERING THE ROOTS WITH THE PROJECT ARBORIST OR THE CONTRACT ADMINISTRATOR SO THAT THE ROOTS SHALL MAINTAIN OPTIMUM SOIL MOISTURE DURING CONSTRUCTION AND BACKFILLING OPERATIONS. BACKFILLING MUST BE UNDERTAKEN WITH CLEAN UNCONTAMINATED TOPSOIL FROM AN APPROVED SOURCE.
- THE CONTRACTOR MUST REPORT IMMEDIATELY ANY DAMAGE TO TREES SUCH AS BROKEN LIMBS, DAMAGE TO ROOTS, OR WOUNDS TO THE MAIN TRUNK OR STEM SYSTEMS SO THAT THE DAMAGE CAN BE ADDRESSED IMMEDIATELY.
- ANY ROOTS OR BRANCHES WHICH EXTEND BEYOND TO THE TREE PROTECTION ZONE(S) INDICATED ON THIS PLAN WHICH REQUIRE PRUNING, MUST BE PRUNED BY A CERTIFIED ARBORIST OR OTHER TREE PROFESSIONAL AS APPROVED BY THE PROJECT ARBORIST OR CONTRACT ADMINISTRATOR. ALL PRUNING OF TREE ROOTS AND BRANCHES MUST BE IN ACCORDANCE WITH GOOD ARBORICULTURAL STANDARDS.
- ALL TREE REMOVALS MUST BE COMPLETED OUTSIDE OF NESTING SEASON WHICH EXTENDS FROM MAY 1ST TO JULY 1ST.

**ESTABLISHMENT OF TREE PROTECTION ZONE, BARRIERS & FENCING**

- THE TREE PROTECTION ZONE SHALL BE ESTABLISHED BY THE INSTALLATION OF TREE PROTECTION FENCING. THE TREE RESTORATION PLAN INDICATES THE LAYOUT OF THE FENCING. THE TREE PROTECTION FENCING SHALL FOLLOW TRCA GUIDELINES AND/OR REQUIREMENTS UNLESS STATED OTHERWISE WITHIN THE TREE RESTORATION PLAN.
- TREE PROTECTION FENCING IS TO BE ERRECTED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OR GRADING ACTIVITIES ON THE SITE AND ARE TO REMAIN IN PLACE THROUGHOUT THE ENTIRE DURATION OF THE PROJECT. THE APPLICANT SHALL NOTIFY THE PROJECT ARBORIST OR CONTRACT ADMINISTRATOR PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES TO CONFIRM THAT THE TREE PROTECTION FENCING IS IN PLACE.
- ALL SUPPORTS AND BRACING USED TO SAFELY SECURE THE FENCING SHOULD BE LOCATED OUTSIDE THE TREE PROTECTION ZONE. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS.
- WHERE SOME FILL OR EXCAVATED MATERIAL MUST BE TEMPORARILY LOCATED NEAR THE TREE PROTECTION ZONE, A WOODEN BARRIER MUST BE USED TO ENSURE NO MATERIAL(S) ENTERS THE TREE PROTECTION ZONE.

**DETAIL 5 - CRANE PAD TYPICAL**



**NOTES:**  
 - CRANE PAD DESIGN TO BE CONFIRMED BY ENGINEER AS PART OF BRIDGE DESIGN.

**RAVINE & NATURAL FEATURE PROTECTION BY-LAW**

THE RAVINE & NATURAL FEATURE PROTECTION BY-LAW, CHAPTER 658 OF THE CITY OF TORONTO MUNICIPAL CODE REGULATES THE INJURY AND DESTRUCTION OF TREES, DUMPING OF REFUSE AND CHANGES TO GRADE WITHIN PROTECTED AREAS DEFINED IN SCHEDULE A.  
 UNDER THIS BY-LAW PROTECTED TREES MAY NOT BE REMOVED, INJURED OR DESTROYED, AND PROTECTED GRADES MAY NOT BE ALTERED, WITHOUT WRITTEN AUTHORIZATION FROM URBAN FORESTRY, RAVINE & NATURAL FEATURE PROTECTION, ON BEHALF OF THE GENERAL MANAGER OF PARKS, FORESTRY & RECREATION.  
**CONVICTIONS OF OFFENCES RESPECTING THE REGULATIONS IN THE RAVINE & NATURAL FEATURE PROTECTION BY-LAW ARE SUBJECT TO FINES, AND THE LANDOWNER MAY BE ORDERED BY THE COURT TO RESTORE THE AREA TO THE SATISFACTION OF THE CITY. A PERSON CONVICTED OF AN OFFENCE UNDER THIS BY-LAW IS LIABLE TO A MAXIMUM FINE OF NOT MORE THAN \$100,000 OR \$500 PER TREE, WHICHEVER IS GREATER, AND/OR A MAXIMUM FINE OF \$100,000 FOR ANY OTHER OFFENCE COMMITTED UNDER THIS CHAPTER, AND/OR A SPECIAL FINE OF \$100,000. A PERSON CONVICTED OF A CONTINUING OFFENCE, INCLUDING FAILURE TO COMPLY WITH RAVINE PERMIT CONDITIONS IS LIABLE TO A MAXIMUM FINE OF NOT MORE THAN \$10,000 FOR EACH DAY OR PART OF A DAY THAT THE OFFENCE CONTINUES.**  
 JUNE 2008

**TRCA STANDARD CONSTRUCTION NOTES**

- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
- DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
- ALL IN-WATER AND NEAR WATER WORKS WILL BE CONDUCTED IN THE DRY WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
- 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 MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
- AN ENVIRONMENTAL MONITOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS, AS WELL AS ON A REGULAR BASIS, OR FOLLOWING RAIN/SNOWMELT EVENT, TO MONITOR ALL WORKS, AND IN PARTICULAR WORKS RELATED TO EROSION AND SEDIMENT CONTROLS, DEWATERING OR UNWATERING, RESTORATION AND IN- OR NEAR- WATER WORKS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR WILL CONTACT THE TRCA ENFORCEMENT OFFICER AS WELL AS THE PROPONENT.
- ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30 METRES FROM THE WATER.
- ALL GRADES WITHIN THE REGULATORY FLOOD PLAIN WILL BE MAINTAINED OR MATCHED.
- THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G., FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
- ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
- ALL ACCESS TO THE WORK SITE SHALL BE FROM THE EXISTING MAIN PARK ACCESS ROAD OFF DON MILLS ROAD. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.
- IN ORDER TO COMPLY WITH THE MIGRATORY BIRDS CONVECTION ACT, TRCA RECOMMENDS THAT TREE REMOVALS BE COMPLETED BETWEEN AUGUST 1 AND APRIL 1.
- TO PROTECT LOCAL FISH POPULATIONS DURING THEIR SPAWNING, NURSARY AND MIGRATORY PERIODS, IN-WATER/NEAR-WATER ACTIVITIES MAY ONLY OCCUR DURING THE FOLLOWING TIME PERIOD: JULY 1ST TO MARCH 31ST.

**GENERAL CONSTRUCTION NOTES**

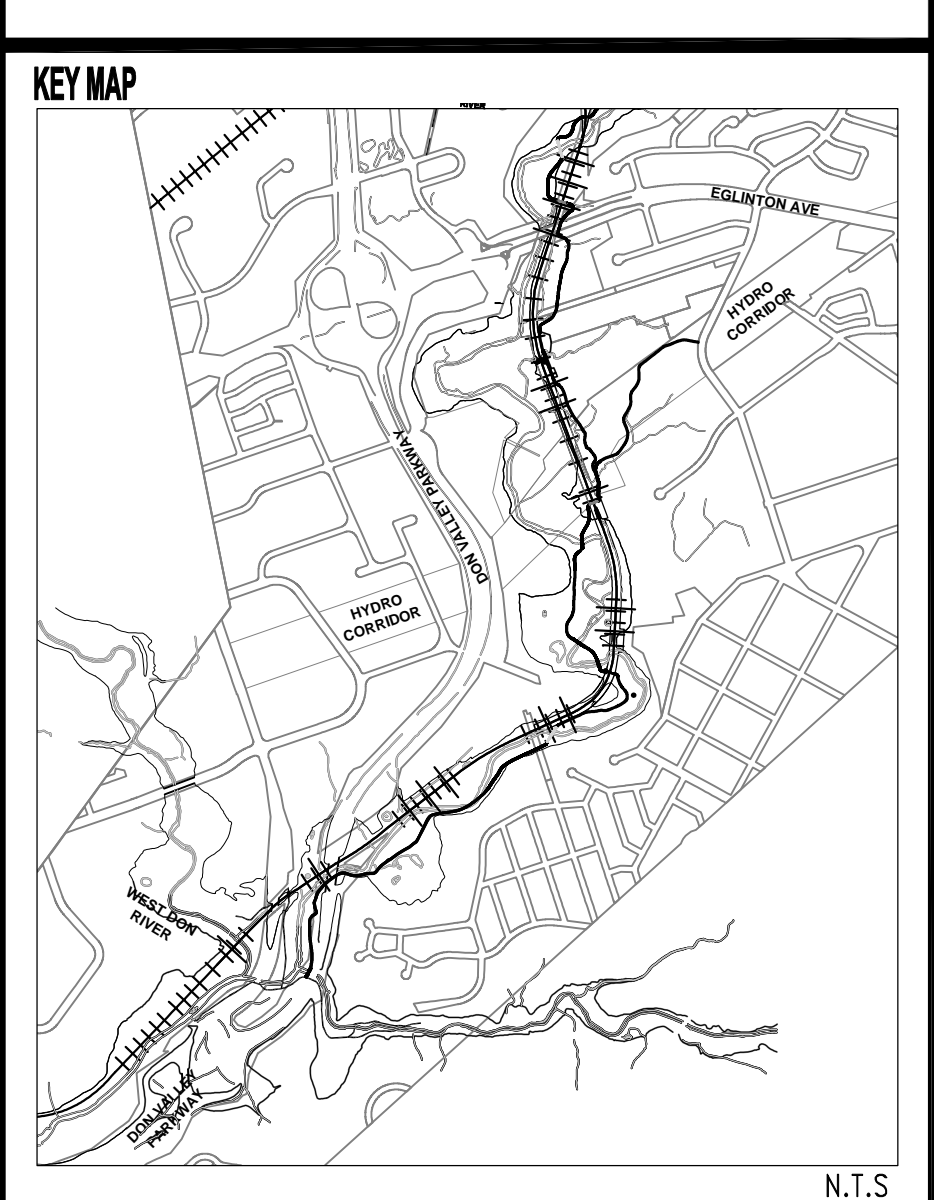
- ALL ELEVATIONS ARE IN METRES AND ALL DIMENSIONS ARE IN METRIC UNITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT, AND LOCATION OF ALL UTILITIES INCLUDING COMPLETE PUBLIC LOCATES.
- ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE REGULATIONS AND PERMITTING PROVISIONS OF THE TRCA. THE PERMIT SHALL BE POSTED OR AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OFFSITE OF ALL UNSUITABLE AND/OR EXCESS MATERIAL.

**SITE MANAGEMENT NOTES**

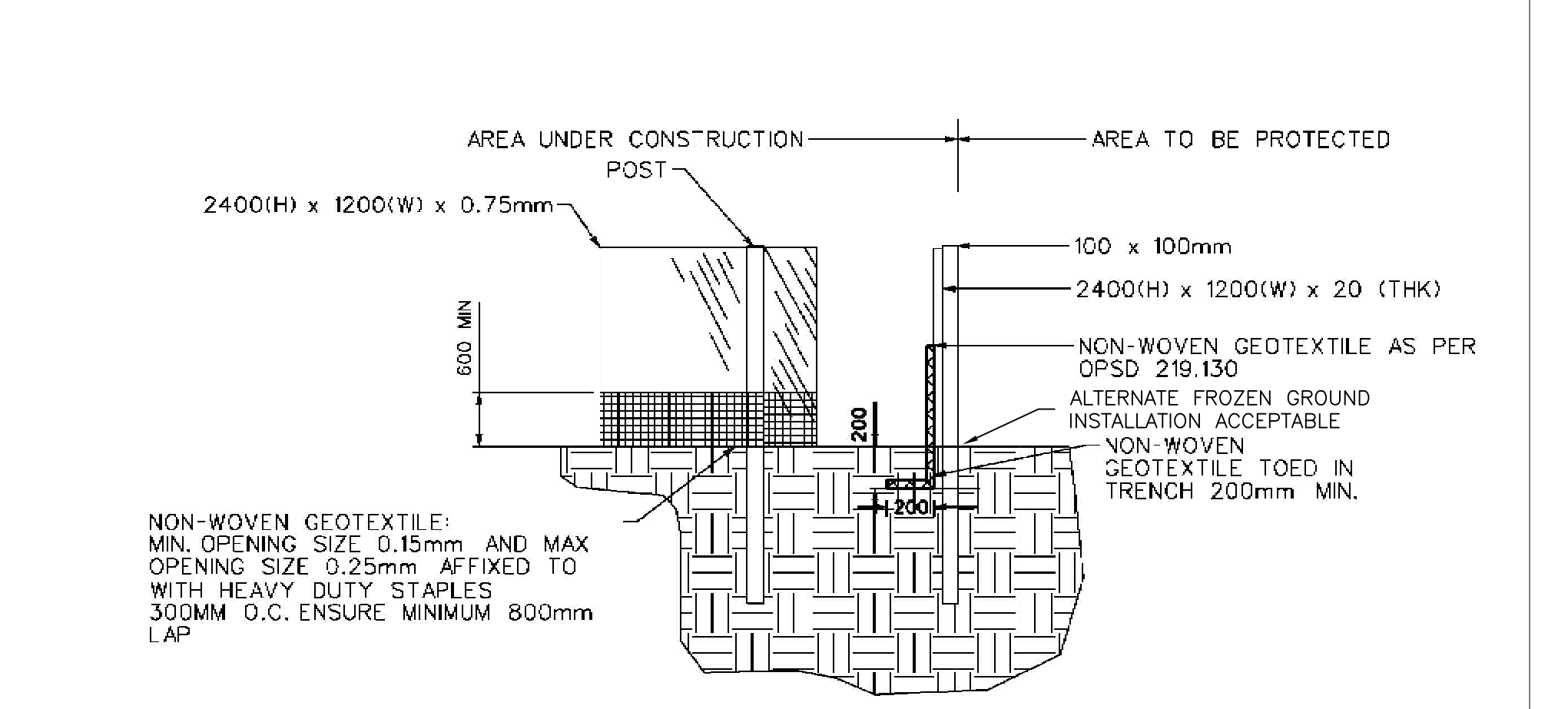
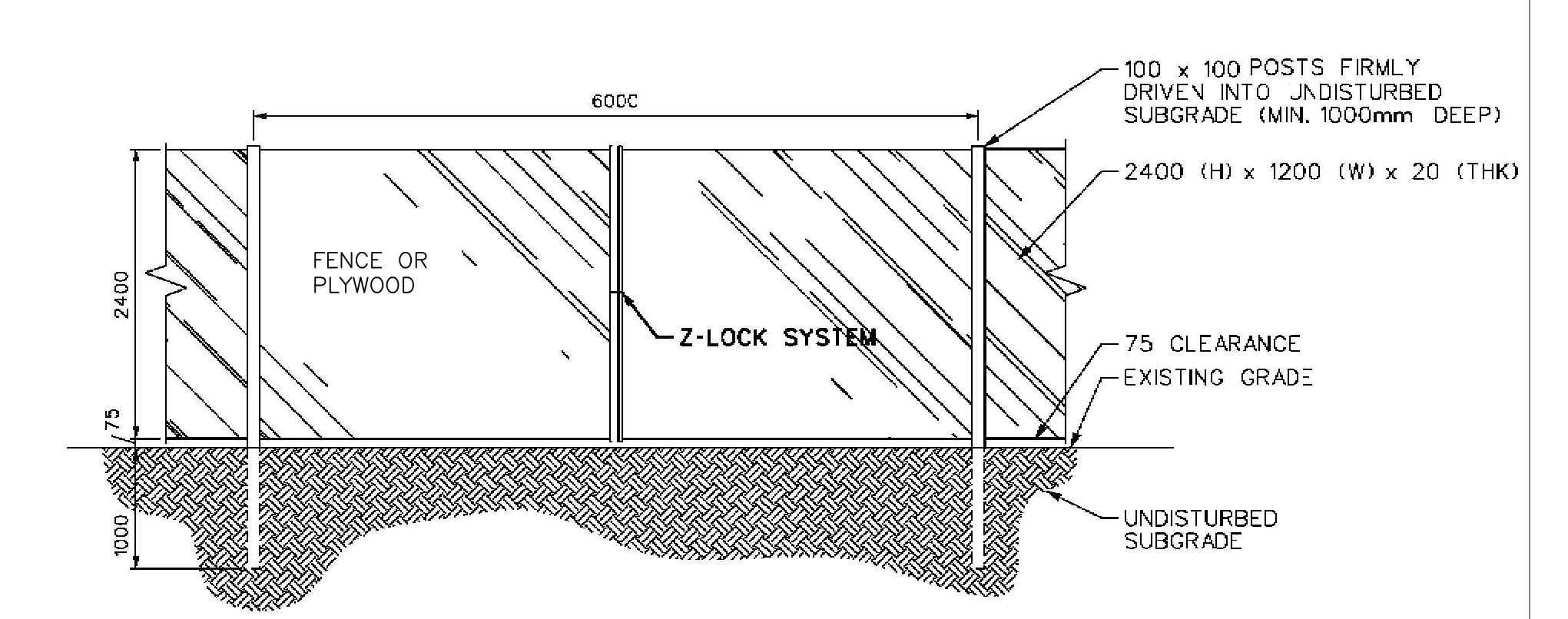
- THE CONTRACTOR SHALL DELINEATE THE REQUIRED WORKING AREA ON SITE PRIOR TO THE START OF THE WORK AND SHALL CONFINE OPERATIONS WITHIN THE DEFINED AREA.
- THE LOCATIONS OF THE STOCKPILE AREAS ARE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION AND ANY CHANGES TO THE LOCATION SHOWN ON THE DRAWINGS ARE TO BE APPROVED BY THE SITE ENGINEER.
- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION. EROSION AND SEDIMENT CONTROL MEASURES WILL BE REMOVED FOLLOWING COMPLETION OF CONSTRUCTION AND WHEN DISTURBED AREAS HAVE BEEN STABILIZED.
- TREE PROTECTION BARRIERS SHALL BE APPROVED BY THE SITE ENGINEER PRIOR TO THE START OF CONSTRUCTION ACTIVITIES AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DESIGN SHEETS ARE THE MINIMUM THAT ARE REQUIRED.
- TEMPORARY MATERIAL STOCKPILE AREAS ARE TO BE ENCLOSED WITH SILTATION CONTROL FENCE.
- ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30 METRES FROM THE WATER.
- ALL GRADES WITHIN THE REGULATORY FLOOD PLAIN WILL BE MAINTAINED OR MATCHED.
- THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G., FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
- ALL ROADWAYS AND SIDEWALKS ARE TO BE CLEANED DAILY OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE.
- STORAGE OF EQUIPMENT SHALL TAKE PLACE IN DESIGNATED AREAS A MINIMUM OF 30 M FROM THE WATERCOURSE TO PREVENT ANY DELETERIOUS SUBSTANCES FROM ENTERING THE WATER.

THE POSITION OF THE POLE LINES, CONDUITS, WATERMANS, SEWERS, AND OTHER UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.

**BEFORE STARTING WORK**  
 THE CONTRACTOR SHALL CONFIRM THE POSITION AND EXACT LOCATION OF ALL SUCH UTILITIES, AND SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO THEM MADE DURING THE COURSE OF THE CONTRACT WORK.



**DETAIL 4 - FAST FENCE / PANEL FENCE DETAIL**



- NOTES:**
- HOARDING MUST BE SUPPLIED, INSTALLED AND MAINTAINED BY THE CONTRACTOR IN SOUND FUNCTIONING CONDITION THROUGHOUT ALL PHASES OF CONSTRUCTION, UNTIL APPROVAL TO REMOVE HOARDING IS OBTAINED FROM ENGINEER.
  - HOARDING TO BE INSPECTED/ APPROVED BY AND BE INSTALLED TO THE SATISFACTION OF THE ENGINEER.
  - DO NOT ALLOW WATER TO COLLECT AND POND BEHIND OR WITHIN HOARDING.
  - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

NO.	DATE	BY	REVISIONS
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4	22/11/18	RA/OC	REISSUED FOR CONSTRUCTION
3	08/03/18	RA/OC	ISSUED FOR TRCA PERMIT
2	08/01/18	RA/OC	ISSUED FOR CONSTRUCTION
1	24/10/17	RA/OC	ISSUED FOR TENDER

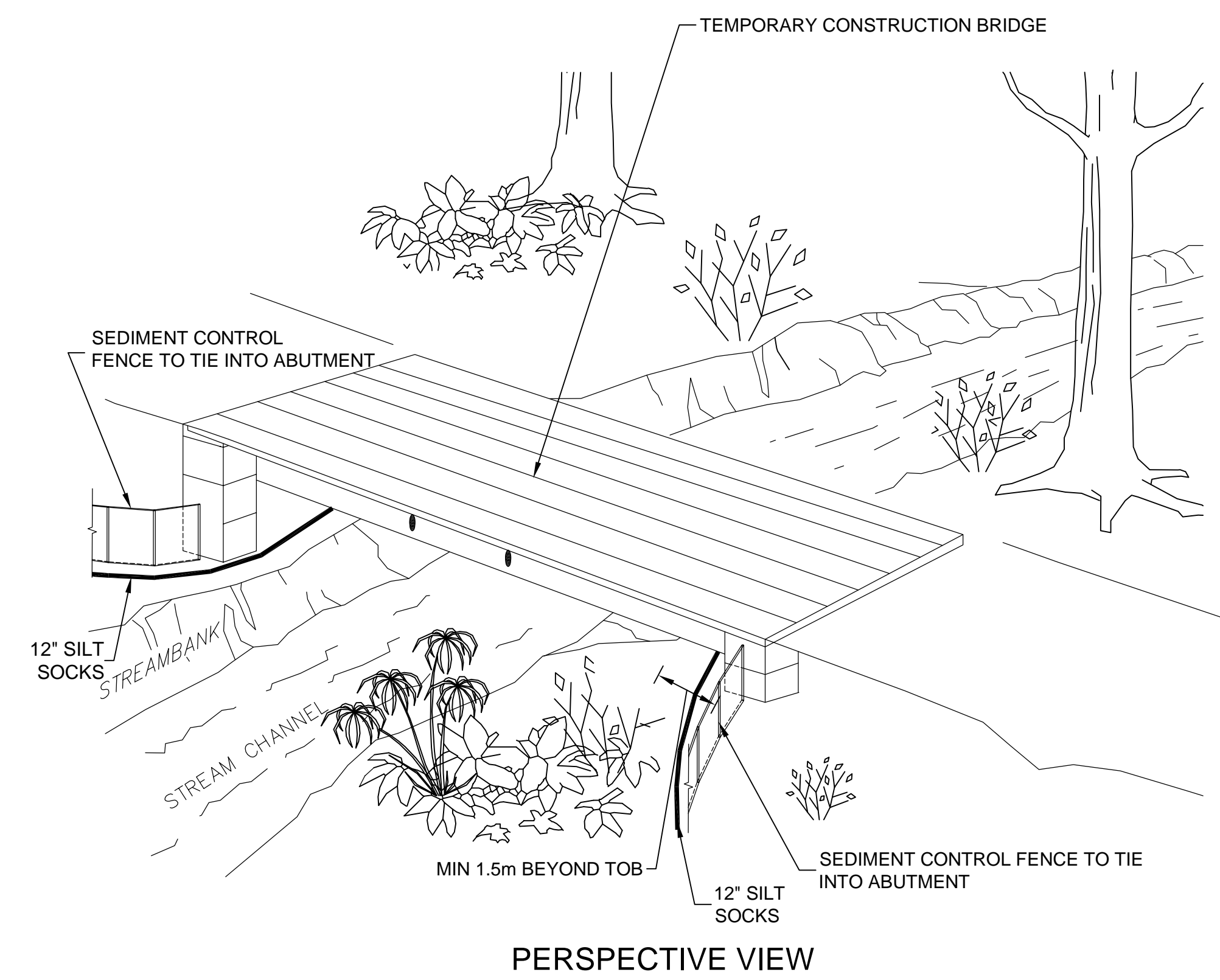
**Aquafor Beech Limited**  
 #6-202-2600 SKYMARK AVE.  
 MISSISSAUGA, ONTARIO, L4W 5B2  
 PHONE: (905) 675-0099, FAX: (905) 675-0069

**EAST DON TRAIL**

DWG. No. \_\_\_\_\_ DESIGNED BY: \_\_\_\_\_  
**E&S-C-10**  
 R.A. AMOS  
 PROFESSIONAL ENGINEER  
 PROVINCE OF ONTARIO  
 SCALE: \_\_\_\_\_ SHEET No. **10**



**DETAIL 6 - TEMPORARY CONSTRUCTION BRIDGE**

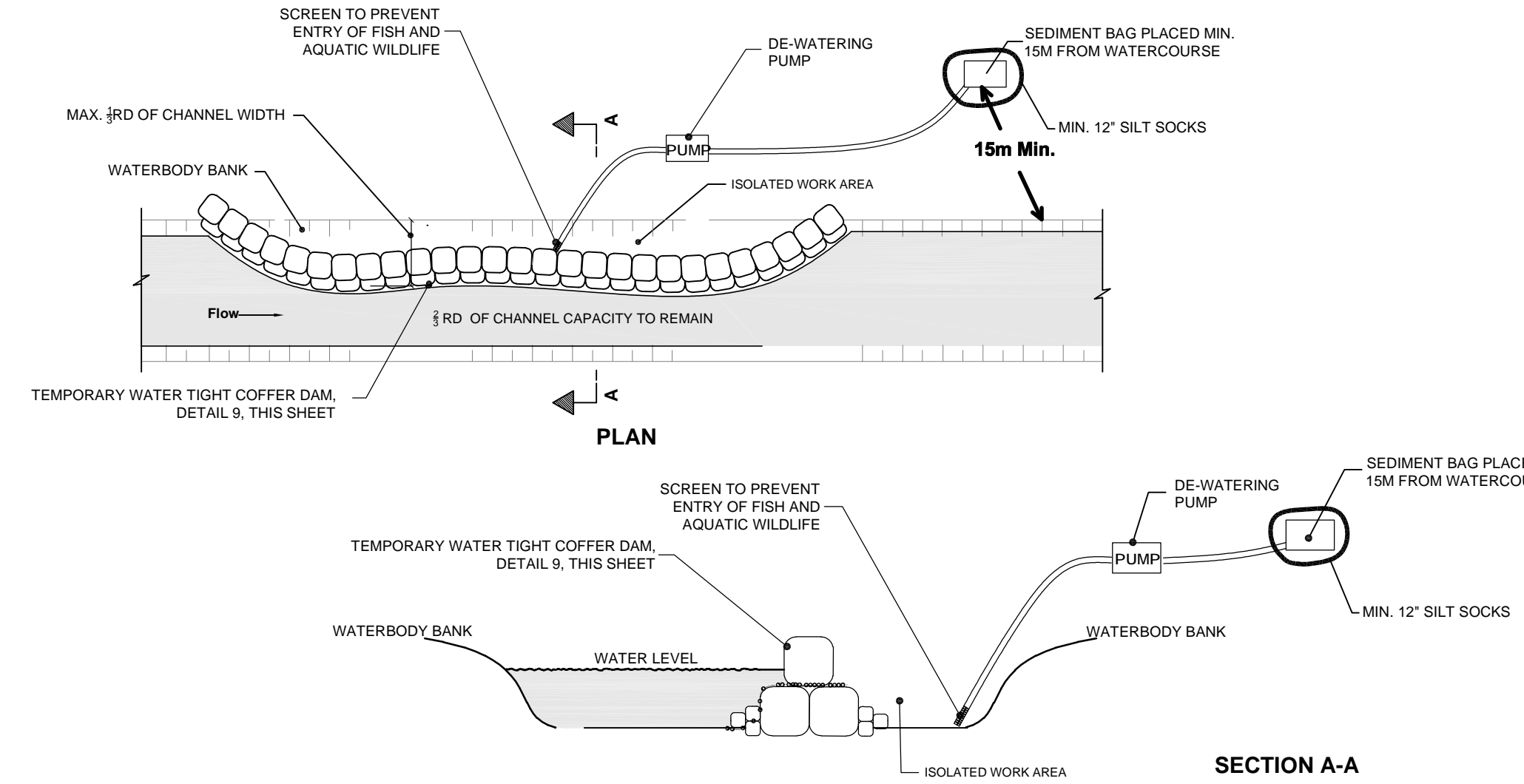


**GENERAL NOTES:**

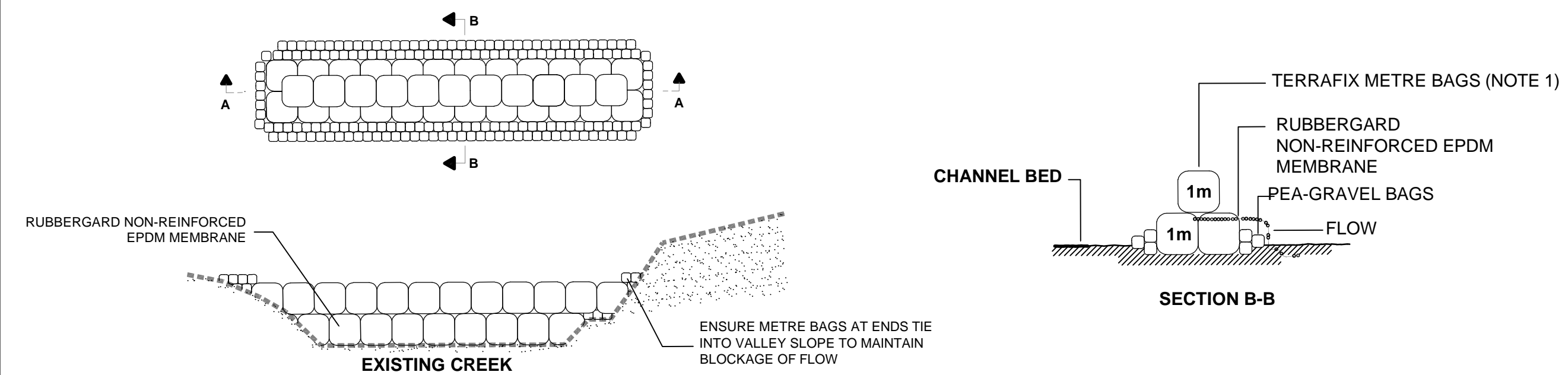
- ABUTMENTS TO BE SET BACK A MINIMUM OF 1.5m FROM TOP OF BANK AND TO BE PLACED IN LOCATIONS THAT ARE LESS SUSCEPTIBLE TO CHANNEL MOVEMENT.
- TEMPORARY BRIDGES ARE TO BE ANCHORED TO PREVENT LOSS UNDER HIGH WATER SCENARIOS.

N.T.S

**DETAIL 8 - DEWATERING DETAIL**



**DETAIL 9 - TEMPORARY WATERTIGHT COFFER DAM**

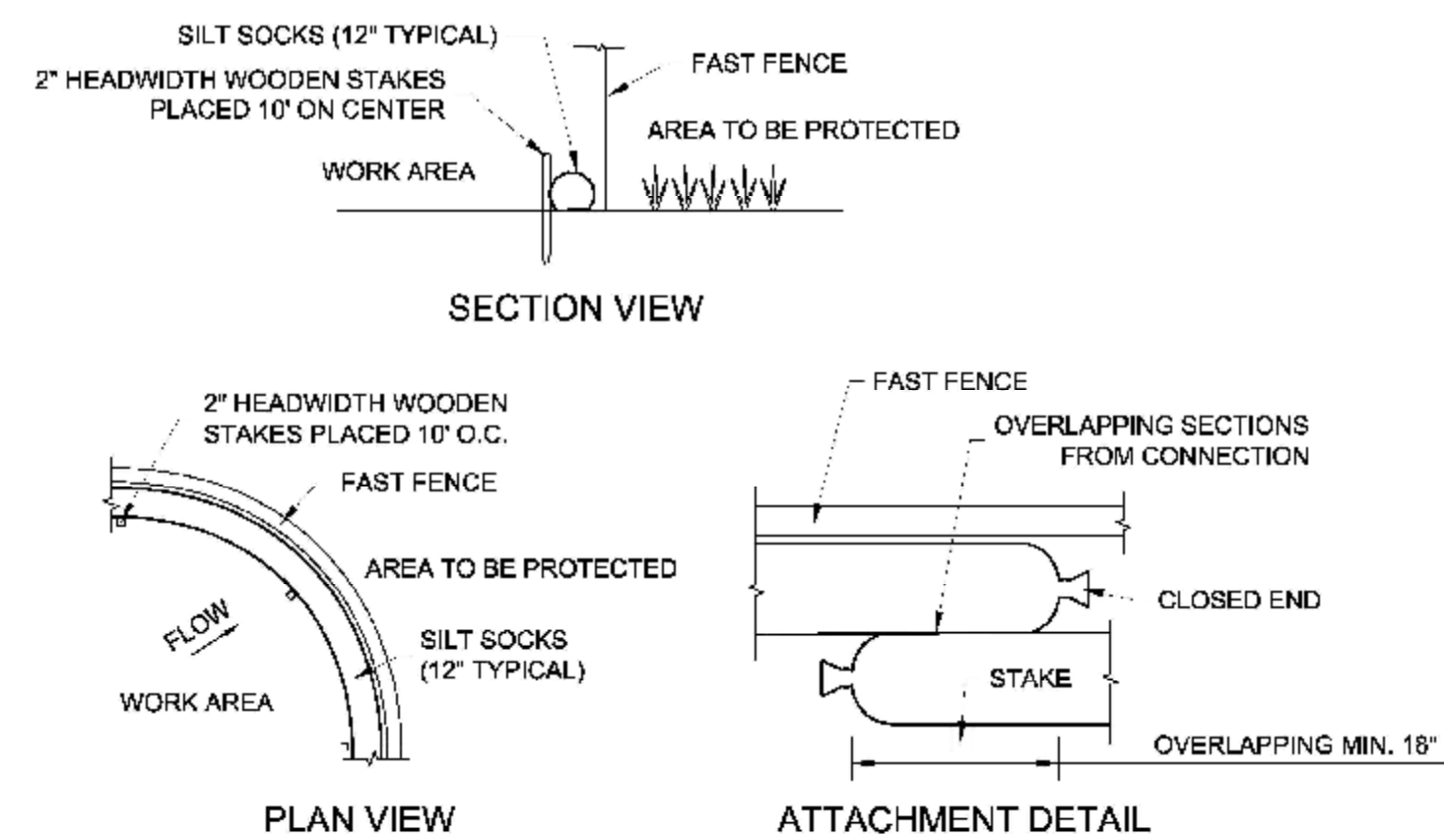


**NOTES:**

- HEIGHT OF DIVERSION DAM IS TO BE GREATER THAN 2 YEAR RETURN (OR AS DIRECTED BY ENGINEER).
- TERRAFIX METRE BAGS AND RUBBERGARD NON-REINFORCED EPDM MEMBRANE (OR APPROVED EQUIVALENT) TO ENSURE FLOW CHECK IS WATER TIGHT.

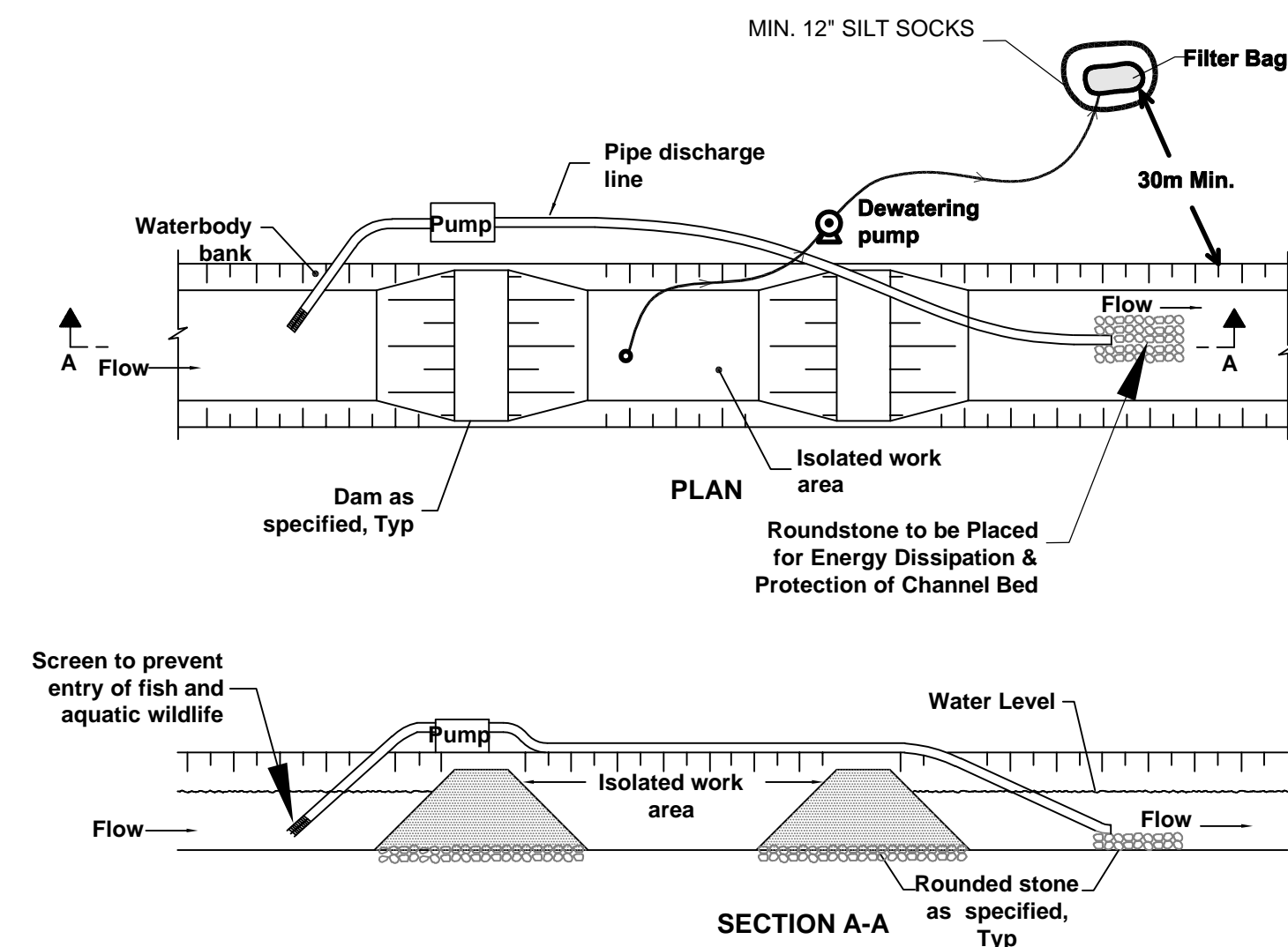
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**DETAIL 7 - SILT SOCKS DETAIL**



N.T.S

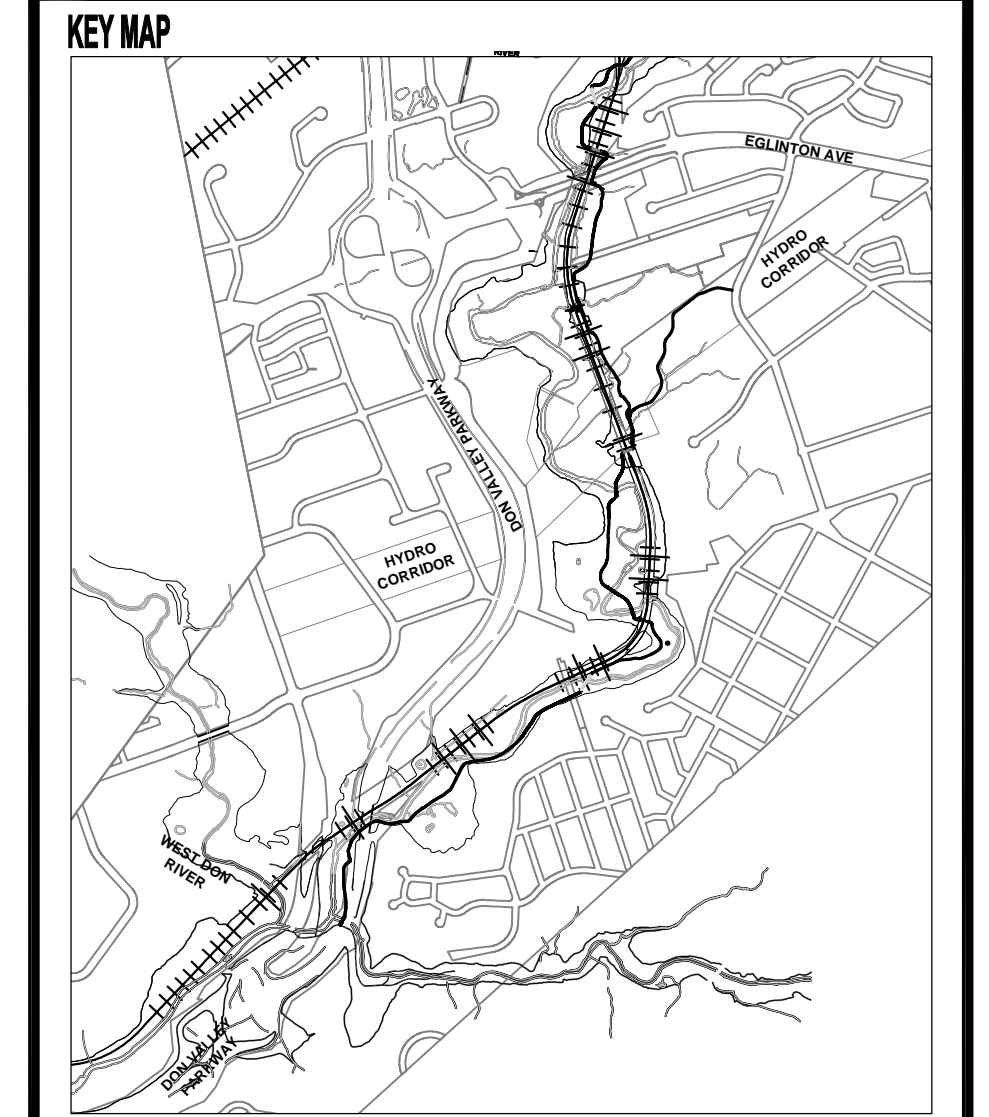
**DETAIL 10 - TEMPORARY WATER PASSAGE SYSTEM - PUMPING AND PIPING (OPSD - 221.020 NOV 2000, REVISED TO INCLUDE ISOLATED WORK AREA PUMPING).**



N.T.S

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**BEFORE STARTING WORK**  
THE CONTRACTOR SHALL CONFIRM THE POSITION AND EXACT LOCATION OF ALL SUCH UTILITIES, AND SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO THEM MADE DURING THE COURSE OF THE CONTRACT WORK.



N.T.S

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**Aquafor Beech Limited**

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**EAST DON TRAIL**

DWG. No. **E&SC-11** DESIGNED BY:

SCALE: SHEET No. **11**



THE POSITION OF THE POLE LINES, CONDUITS, WATERMANS, SEWERS, AND OTHER UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.

**BEFORE STARTING WORK**  
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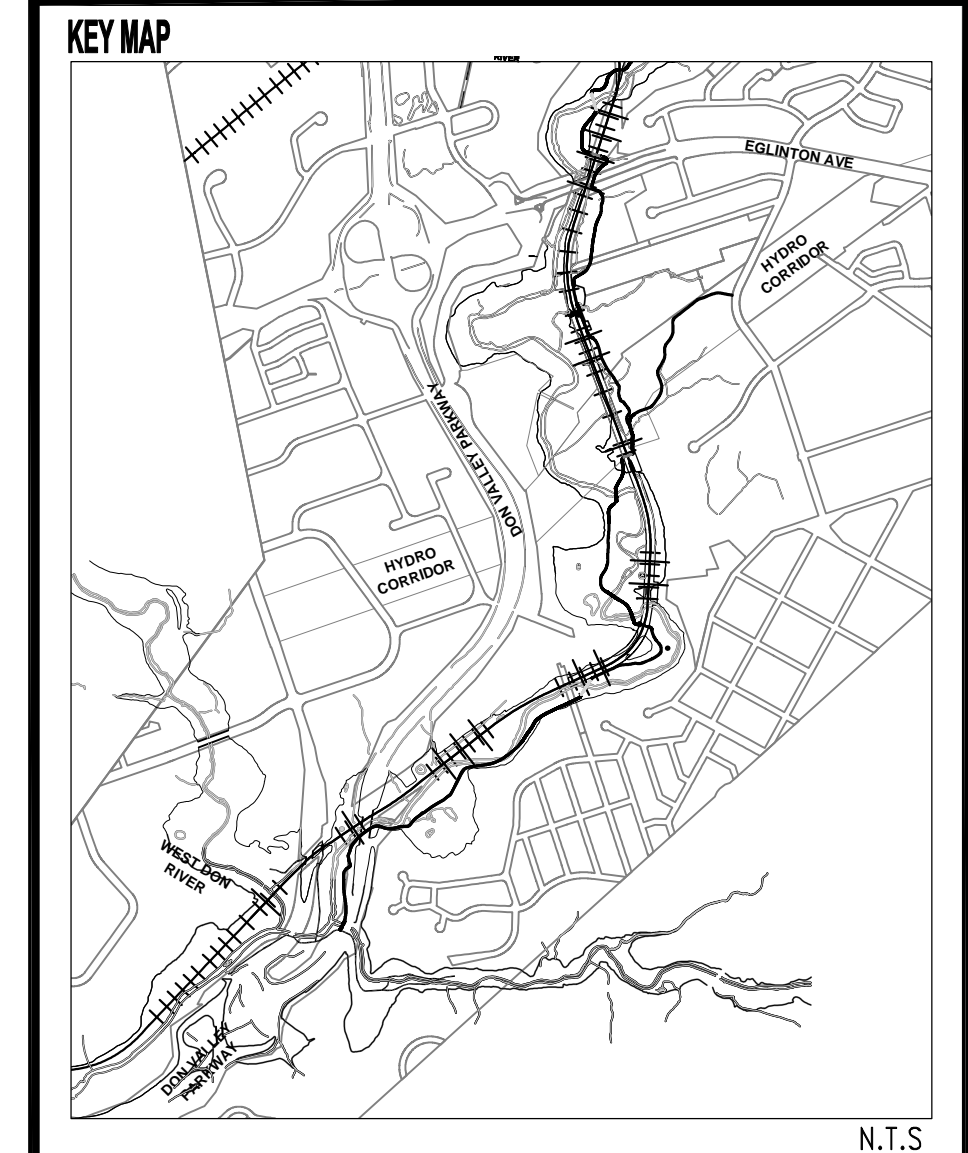


TABLE 1 - TERRASEED : DRY MIX

Common Name	Scientific Name	Portion	Application Rate
Big Blue Stem	Andropogon gerardii	25%	25 kg/ha
Switch Grass	Panicum virgatum	12%	
Indian Grass	Sorghastrum nutans	22%	
New England Aster	Symphiotrichum novae-angliae	5%	
Canada Rye	Elymus canadensis	12%	
Showy Trefoil	Desmodium canadense	4%	
Bergamot	Monarda fistulosa	2%	
Brown Eyed Susan	Rudbeckia hirta	6%	
Virginia Mountain Mint	Pycnanthemum virginianum	3%	
Foxglove Beardtongue	Penstemon digitalis	2%	
Pale Coneflower	Echinacea pallida	2%	
Hoary Vervain	Verbena stricta	2%	
Upland White Aster	Solidago ptarmicoides	1%	
Common Milkweed	Asclepias syriaca	2%	
TOTAL		100%	

TABLE 2 - TERRASEED : WETLAND MIX

Common Name	Scientific Name	Portion	Application Rate
Virginia Rye	Elymus virginicus	25%	25 kg/ha
Riverbank Rye	Elymus riparius	30%	
Fringed Brome	Bromus ciliatus	10%	
Switch Grass	Panicum virgatum	5%	
Bebb's Sedge	Carex bebbii	6%	
Fox Sedge	Carex vulpinoidea	8%	
Wetland Sedges	C. lupulina, C. retrorsa C. crinita and/or hystericena	3%	
Dark Fruited Bulrush	Scirpus atrovirens	3%	
Wool Grass	Scirpus cyperinus	2%	
New England Aster	Symphiotrichum novae-angliae	2%	
Boneset	Eupatorium perfoliatum	2%	
Joe Pye Weed	Eupatorium maculatum	1%	
Blue Vervain	Verbena hastata	1%	
Evening Primrose	Oenothera biennis	2%	
TOTAL		100%	

TABLE 3 - TERRASEED : RIPARIAN AND STREAM CHANNEL STABILIZATION MIX

Common Name	Scientific Name	Portion	Application Rate
Virginia Rye	Elymus virginicus	30%	25 kg/ha
Riverbank Rye	Elymus riparius	25%	
Switch Grass	Panicum virgatum	5%	
Big Blue Stem	Andropogon gerardii	10%	
Fox Sedge	Carex vulpinoidea	4%	
Fringed Brome	Bromus ciliatus	10%	
Dark Fruited Bulrush	Scirpus atrovirens	1%	
Showy Trefoil	Desmodium canadense	8%	
Virginia Mountain Mint	Pycnanthemum virginianum	2%	
Foxglove Beardtongue	Penstemon digitalis	2%	
Brown Eyed Susan	Rudbeckia hirta	3%	
TOTAL		100%	

**NOTES:**

1. Terraseed mixture is to be applied to all disturbed areas beyond the asphalt paving.
2. The appropriate mixture will be defined by the Contract Administrator.
3. The seed mixture to be applied at a minimum 25kg/ha unless noted.
4. Terraseed thickness to be a minimum 50mm.
5. Tacifier to be included into all applications on slopes > 10%.

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**EAST DON TRAIL**

DWG. No. **R-1**      DESIGNED BY:

SCALE: \_\_\_\_\_  
 SHEET No. **1**