PLANFORM
1:250

LOW FLOW CHANNEL INVERT	179.43		179.33	179.18		178.80	LOW FLOW CHANNEL INVERT
STATION	0+000	0+020	0+040	0+060	0+080	0+100	STATION

PROFILE
H = 1:250; V=1:25

SCALED FOR PLOT ON 'ARCH D'

N
N.T.S.

KEY MAP
N.T.S.

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DRAWN BY: B.W.M.	DATE: JANUARY 2022

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PAUL V. VILLARD
PRACTISING MEMBER
0957
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2022-01-14

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WYLDEWOOD CREEK
BRANDY LANE HOMES

CHANNEL RESTORATION DESIGN
PLANFORM AND PROFILE

PROJECT No.: 21032	DRAWING No.: GEO-1
SCALE: AS NOTED	SHEET 1 OF 3

PROFILE

PLANFORM

CASCADE CROSS SECTION

POOL CROSS SECTION

TYPICAL CASCADE

N.T.S.

CROSS SECTION

PROFILE

STONE CORE WETLAND

N.T.S

SCALED FOR PLOT ON 'ARCH D'

N
N.T.S.

KEY MAP

N.T.S.

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WYLDEWOOD CREEK
BRANDY LANE HOMES

CHANNEL RESTORATION DESIGN
RESTORATION DETAILS

PROJECT No.: 21032	DRAWING No.: DET-1
SCALE: AS NOTED	SHEET 2 OF 3

ARMOURSTONE NOTES:
1. ARMOURSTONE TO WEIGH MIN. 1.5 TONNES
2. RECOMMENDED DIMENSIONS:
   - 750 mm THICKNESS
   - 750 mm DEPTH
   - 1200 mm LENGTH

ARMOURSTONE RETAINING WALL
N.T.S.

SPECIES AND QUANTITIES

COMMON NAME	SCIENTIFIC NAME	QTY	CONDITION
RED OSIER DOGWOOD	*Cornus stolonifera*	150	1 m, BARE ROOT
PUSSY WILLOW	*Salix discolor*	150	1 m, BARE ROOT
SANDBAR WILLOW	*Salix exigua*	150	1 m, BARE ROOT

NOTES
1. QUANTITY TO BE DETERMINED BASED ON AREA OF DISTURBANCE TO BE RESTORED
2. LIVE STAKES SHOULD BE FROM AT MINIMUM 2-YEAR OLD STOCK.
3. LIVE STAKES ARE TO BE INSTALLED AT A DENSITY OF 3 STAKES PER SQUARE METRE.
4. LIVE STAKES SHOULD BE PRE-SOAKED (SUBMERGED IN WATER) FOR AT LEAST 24 HOURS AFTER HARVESTING AND IMMEDIATELY BEFORE INSTALLATION.
5. LIVE STAKES SHOULD NOT BE STORED FOR A PERIOD LONGER THAN 2 DAYS, UNLESS THEY ARE BEING SOAKED.
6. THE CONTRACTOR SHALL PROTECT PLANT MATERIALS FROM DRYING FROM THE TIME OF HARVEST UNTIL INSTALLED.
7. LIVE STAKES ARE TO BE A MINIMUM OF 25 mm IN DIAMETER AND CUT TO A LENGTH OF 1000 mm.
8. CUT ANGLE AT THE BOTTOM OF THE STAKE AND FLAT ON THE TOP.
9. TRIM ALL SIDE BRANCHES WHILE TAKING CARE NOT TO DAMAGE THE BARK.
10. INSTALL STAKES WITH BUDS POINTING UPWARDS AND THICKER STEM IN THE BED.
11. LIVE STAKES SHOULD BE INSTALLED USING A LARGE RUBBER MALLET.
12. 80% OF THE STAKE IS TO BE BELOW SURFACE.
13. TAMP THE LIVE STAKE INTO THE GROUND AT RIGHT ANGLE TO THE SURFACE.
14. IN COMPACT SOIL A PILOT HOLE SHOULD BE USED TO LIMIT DAMAGE TO THE STAKES.
15. IF USING A PILOT HOLE REPACK SOIL AROUND THE LIVE STAKE.
16. LIVE STAKES SHOULD STAND FIRM FROM THE SOIL FOLLOWING INSTALLATION.
17. ALL STAKES NOT PLANTED TO THE SPECIFICATIONS ABOVE WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

LIVE STAKE
N.T.S.

CREEK BANK NATIVE SEED MIX - OSC 8215

COMMON NAME	SPECIES
BIG BLUESTEM	*Andropogon gerardii*
NEW ENGLAND ASTER	*Aster novae-angliae*
FOX SEDGE	*Carex vulpinoidea*
BOTTLEBRUSH GRASS	*Elymus hystrix*
FOWL MANNGRASS	*Glyceria striata*
FOWL BLUEGRASS	*Poa palustris*
BLACK EYED SUSAN	*Rudbeckia hirta*

NOTES
1. SPECIES PERCENT OF MIX AS PER PRE-MIXED OSC SEED PACKET, OR EQUIVALENT.
2. APPLY SEED MIX AT A RATE OF 25 kg PER HECTARE.
3. SEEDING SHALL OVERLAP ADJACENT GROUND COVER BY 300 mm.
4. APPLY ANNUAL RYE GRASS / ANNUAL OATS NURSE CROP AT A RATE OF 30 kg PER HECTARE.

*FOUNDATION OF GABION WALL SHOULD BE COMPETENT AND NON-EROSIVE. FOR EXAMPLE: EXTEND TO COMPETENT INSITU MATERIAL OR ESTABLISH A BASE WITH GROUTED ROCK OR CONCRETE MUD SLAB (SHOWN). FOUNDATION SHOULD BE BELOW FROST LINE AND HAVE ADEQUATE BEARING CAPACITY.

VEGETATED GREEN GABION RETAINING WALL
N.T.S.

SCALED FOR PLOT ON 'ARCH D'

N
N.T.S.

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CHANNEL RESTORATION DESIGN
RESTORATION DETAILS

PROJECT No.: 21032	DRAWING No.: DET-2
SCALE: AS NOTED	SHEET 3 OF 3