Match existing elevations along entire northern limit

Infiltration gallery

French Drain

Phase 2 blocks to be developed in the future when grading allows.

Rideau River Street

Mono Cliffs St

Bass Lake St

Esker Lake Dr

Rideau River Place

Pinery Trail

2.5m Asphalt Trail

SWM Pond

Pedestrian Crossing

Drainage from park block will not cross onto private lots.

Park

School

Refer to park grading concept in the Preliminary Servicing Report, Appendix D, for additional grades and slopes.

Bollards/gates to be confirmed in detailed design

3.0m Asphalt Walkway

Rushing River St

Roy Schmidt Road

Wasaga Crescent

Max. 5.0% slope on trails

2.0m grassed swale between trail and property line.

Esker Lake Dr to be super-elevated south of Rushing River St to force overland flow route into south-bound lane only.

Proposed Conservation Drive and roundabout design (by others)

4.0m Asphalt Pond Access

10m Dripline Setback

15m Wetland Buffer

Wetland Limit

Ex. Waters Edge

Ex. Edge of Swamp

Ex. Ditch

Ex. Gutter

1 & 1/2 Storey Model Building

Grading Legend

- Original Ground Elevation
- Proposed Ground Elevation / Original Ground Elevation
- Retaining Wall
- Armour Stone
- Overland Flow Direction
- Surface Drainage Direction/Slope
- Swale Direction at Lot Corner
- Swale Flow Direction
- Drainage Divide Line

1:1000

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2024-10-18
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All lots are back-to-front or split drainage unless shown otherwise:

W/O = "walkout" type lot
SS = "sunshine" or "lookout" type lot

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DRAWING: Preliminary Grading Plan
556 & 576 Conservation Drive

DRAWN BY:	STV	CHECKED BY:	CHT	SCALE:	1: 1000
FILE NAME:	1279 Figures	DATE:	Oct 2024		1279-SG

Split point of sanitary and 3rd pipe.

Rear yards to infiltration gallery, sized for 2-yr volume.

~Inv @ Intersection
Wat=362.70
San=361.65
CWC=362.00

~Inv @ Intersection
Stm=360.50
Wat=361.10
San=359.50
CWC=359.80

Pr Culvert

Rideau River Street

~Inv
Stm=358.50
Wat=355.79
San=356.40
CWC=358.00

~Inv @ Intersection
Stm=360.50
Wat=357.63
San=357.60
CWC=358.50

150mmø Wmn, Rideau River St, Mono Cliffs St & Bass Lake St

Rideau River Street

~Inv @ Intersection
Stm=360.95
Wat=360.75
San=360.00
CWC=360.50

150mmø Wmn, Esker Lake Dr (Pinery Trail to Rideau River Street) & Rideau River Street

Mono Cliffs St

Bass Lake St

Esker Lake Dr

Rideau River Place

Rideau River Street

~Inv @ Intersection
Stm=357.30
Wat=355.50
San=355.20
CWC=356.80

~Inv
Stm=354.10
Wat=355.00
San=354.70
CWC=354.50

Pinery Trail

~Inv @ Intersection
Stm=360.05
Wat=358.35 (Dip)
San=359.00
CWC=359.50

~Inv @ Intersection
Stm=359.50
Wat=360.80
San=358.75
CWC=359.00

300mmø Wmn

Ex 200mmø Wmn

Pinery Trail

900mmø Stm into SWM Pond

~Inv @ Intersection
Stm=358.00
Wat=356.54 (Dip)
San=356.70
CWC=357.70

~Inv
Stm=356.00
Wat=355.80
San=354.00
CWC=355.40

200mmø Wmn Pinery Trail (Esker Lake Dr to Rideau River St)

Split point of sanitary and 3rd pipe.

Wet Pond

Ex. Edge Of Swamp

10m Wetland Buffer

10m Drainage Setback

Underground Infiltration System

15m Wetland Buffer

Ex. Waters Edge

300mmø Wmn, Esker Lake Dr (Conservation Drive to Pinery Trail)

Esker Lake Dr

3rd pipe (CWC) system for roof leaders.

Level spreader

200mmø San, Remainder of Subdivision

School roof area to infiltration. Exact location to be determined.

~Inv
Wat=355.65
San=352.60
CWC=355.50

~Inv @ Intersection
Stm=354.90
Wat=354.10 (dip)
San=351.40
CWC=355.50

Roy Schmidt Road

Wasaga Crescent

Rushing River St

Overflow to storm sewer from CWC system (typ)

Rear yards to infiltration gallery, sized for 2-yr volume.

200mmø Wmn, Rushing River St

250mmø San, Esker Lake Dr (Conservation Drive to North end of Rushing River St)

Esker Lake Dr

Infiltration gallery

~Inv @ Intersection
Stm=353.50
Wat=354.80
San=350.90
CWC=353.70

Overflow to storm sewer from CWC system

600mmø Stm to External SWM Facility
Required Inv=353.35

Culverts to direct drainage under trail

1050mmø Stm to External SWM Facility
Required Inv=352.90

250mmø San to External SPS
Inv=349.10

Connection of watermain by others

Conservation Drive

Servicing Legend

- Ex=Existing
- Ex Sanitary/Storm Manhole/CB Manhole
- Ex Sanitary Sewer (Flow Direction)
- Ex Storm Sewer (Flow Direction)
- Ex Water Valve/Curb Stop
- Ex Fire Hydrant & Valve Set
- Pr=Proposed
- Pr Sanitary/Storm Manhole
- Pr Sanitary Sewer (Flow Direction)
- Pr Storm Sewer (Flow Direction)
- Pr Water Valve/Curb Stop/Reducer
- Pr Fire Hydrant & Valve Set

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1:1000

0 5 10 20 30 40

1:1000

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DRAWING: Preliminary Servicing Plan
556 & 576 Conservation Drive

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FILE NAME:	1279 Figures	DATE:	Oct 2024
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			1279-SS

Rideau River Street

Rideau River Street

Pinery Trail

Pinery Trail

Mono Cliffs Street

Bass Lake St

Esker Lake Dr

Rideau River Place

Rideau River Stree

Pinery Trail

Esker Lake Dr

Roy Schmidt Road

Rushing River Street

Esker Lake Dr

Rushing River Street

Conservation Drive

Infiltration gallery in trail block

Match existing elevations along entire northern limit

3:1 slope to match exiting elevations along western boundary in the interim condition.

Forebay and Wet Pond

SWM Pond to act as Temp Silt Pond during grading operations

Double row silt fence, as per OPSD 219.131

Topsoil not to be stockpiled on the park block

Park

School

Infiltration gallery

Single row silt fence, as per OPSD 219.131.

Ex. Top of Bank

Ex. Bottom of Ravine

Ex. Hedgerow

Ex. Fence

Ex. Top of Bank

Ex. Bottom of Ravine

Ex. Hedgerow

Ex. Fence

Ex. Gutter

Ex. Gutter

Wetland Limit

Wetland Limit

Wetland Limit

Existing or proposed ground

Proposed ground

Flow direction

0.15m Min 0.5m Max

1

2

1

2

0.5m

Control Swale Detail

Not to Scale

Existing asphalt area

Catchbasin frame & grate

Provide erosion control filter cloth (silt sack) between catchbasin/manhole moduloc and frame. Alternatively, attach erosion control filter cloth firmly to the underside of the catchbasin lid to ensure adequate filtering of sediments.

OPSD Precast catchbasin or OPSD Precast manhole

Catchbasin Protection in Paved Area

Not to Scale

1.0m high snow fence c/w T-bar post @ 2.0m o/c

Filter fabric

15mmø clear stone filter, 150mm thick

Hickenbottom c/w orifice

Top of berm

0.5m

Rock fill 150mmø min.

Overflow

Water level

0.3m freeboard

0.3m overboard

5.0m min.

Final lot grade

Pre-grade

Total Basin Volume

Active Storage Volume

Undisturbed ground or compacted backfill

Rip-rap, 300mm deep

Dead Storage Volume

Outlet piped to grade or storm sewer

Temp Silt Pond

Double Silt Fence

Single Silt Fence

Sediment Control Pond Outlet Detail

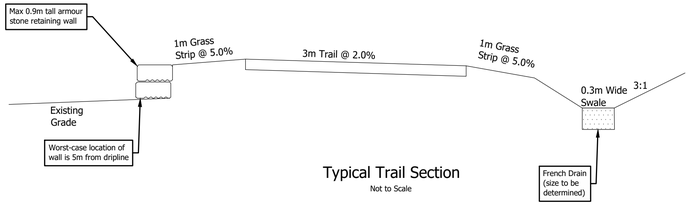
Not to Scale

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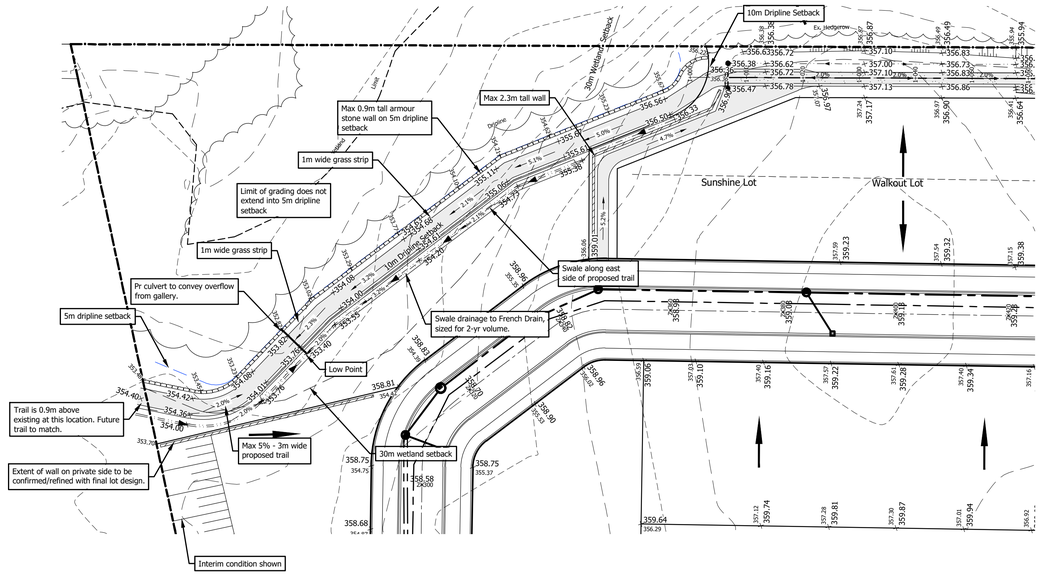
DRAWING: Preliminary Erosion & Sediment Control Plan
556 & 576 Conservation Drive

DRAWN BY:	STV	SCALE:	1: 1000
CHECKED BY:	CHT		1279-ESC
DATE:	Oct 2024		
FILE NAME:	1279 Figures		



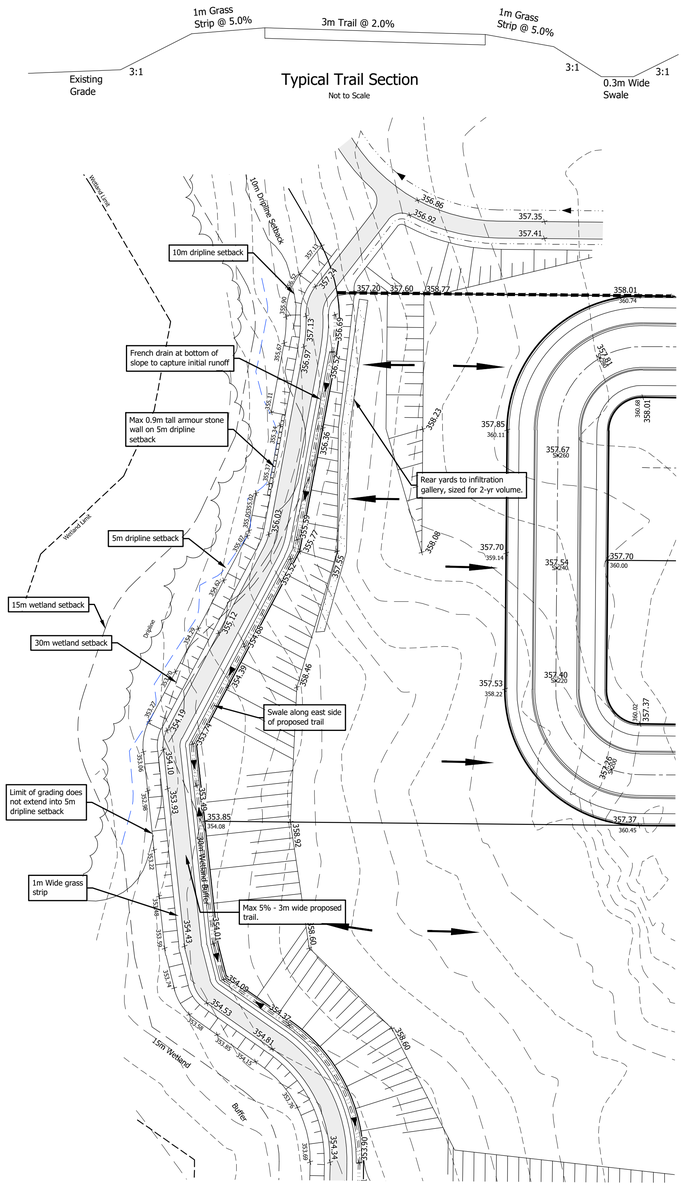
Typical Trail Section

Not to Scale



Trail North-West of Rideau River Street

1:500



Trail West of Rushing River Street

1:500

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1:500

0 2.5 5 10 15 20

1:500

DRAWING: Trail Grading Details and Cross-Sections
556 & 576 Conservation Drive

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			1279-Tail_Sections

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Rideau River Street
Pinery Trail
Rushing River St
Conservation Drive
Esker Lake Dr
Mono Cliffs St
Bass Lake St
Rideau River Place
Wasaga Crescent
Roy Schmidt Road
Kawartha Street
East/ West Drainage Split
Pr Culvert
5m Hedgerow Setback
10m Dripline Setback
15m Wetland Buffer
30m Wetland Buffer
Wet Pond
Underground Infiltration System
525mmø@0.6%
600mmø@0.5%
600mmø@1%
675mmø@0.8%
825mmø@1%
900mmø@1%
450mmø@0.6%
450mmø@2.6%
375mmø@2.3%
675mmø@1%
675mmø@2.5%
900mmø@1.0%
1050mmø@0.6%
1050mmø@0.7%
525mmø@1.0%
0.85 EXT 0.60
0.70 13 0.60
0.22 22 0.60
0.75 12 0.60
1.24 18 0.60
1.03 11 0.60
0.33 10 0.60
0.83 16 0.60
0.67 14 0.60
0.51 17 0.60
0.65 21 0.60
0.19 15 0.60
2.14 2 0.30
2.69 1 0.30
1.61 2 0.60
1.66 4 0.60
2.54 5 0.50
2.28 20 0.25
1.72 7 0.75
0.43 6 0.75
0.75 8 0.75
1.47 9 0.75
AA
BB
CC
DD
EE
FF
GG
HH
KK
LL
MM
XX
YY
A
B
C
D
E
F
G
H
Area ID C
Drainage area (ha)
Drainage area number
Run-off coefficient
Drainage area boundaries
Overland flow direction
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PROVINCE OF ONTARIO
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DRAWING: Storm Drainage Area Plan
556 & 576 Conservation Drive
DRAWN BY: STV/KCC
CHECKED BY: CHT
DATE: Oct 2024
SCALE: 1: 1000
FILE NAME: 1279 Figures
1279-Strm
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0 5 10 20 30 40
1:1000

Rideau River Street

Pinery Trail

Mono Cliffs St

Bass Lake St

Esker Lake Dr

Rideau River Place

Rideau River Street

Pinery Trail

Esker Lake Dr

Rushing River St

Roy Schmidt Road

Wasaga Crescent

Kawartha Street

Conservation Drive

10m Dripline Setback

30m Wetland Buffer

15m Wetland Buffer

Wetland Limit

Ex. Waters Edge

Ex. Edge of Swamp

Wet Pond

Underground Infiltration System

200mmø@0.6%min.

250mmø@0.6%min.

5m Hedgerow Setback

2.03
3
RES 116

8.99
4
RES 538

3.81
1
RES 14

3.81
2
RES 249

0.41
7
RES 35

7.29
5
RES/INS 607

0.83
6
RES 144

Area
ID
Zone Pop

Drainage area (ha)

Drainage area number

Population

Zoning

Drainage area boundaries

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2024-10-18
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1:1000

DRAWING: Sanitary Drainage Area Plan
556 & 576 Conservation Drive

DRAWN BY: STV/KCC
CHECKED BY: CHT
DATE: Oct 2024
SCALE: 1: 1000
1279-San
FILE NAME: 1279 Figures