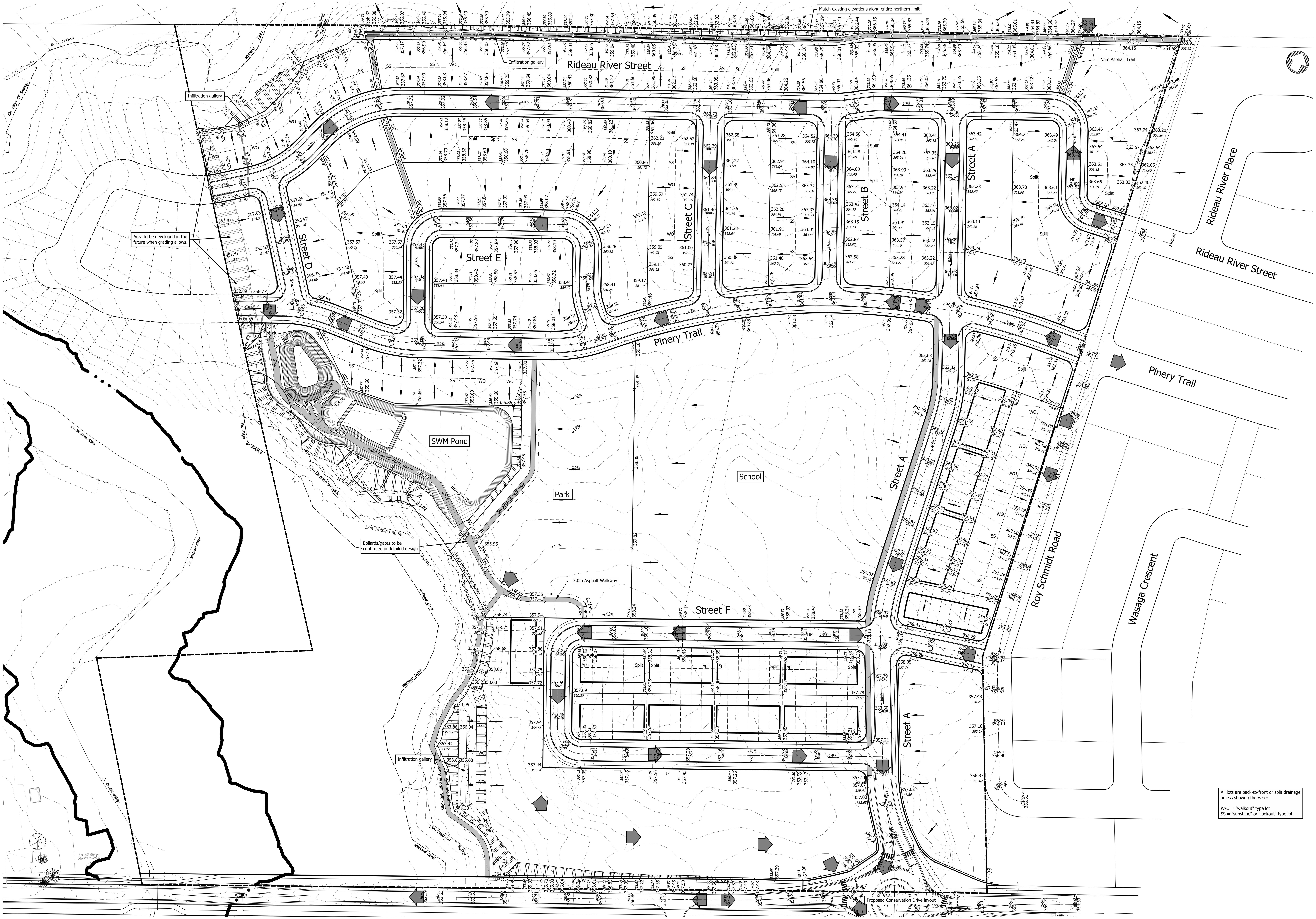



MERITECH engineering
1315 Bishop Street North, Suite 202 Cambridge
T 519.623.1140 F 519.623.7334 www.meritech.ca

DRAWING: Preliminary Grading Plan
556 & 576 Conservation Drive

| DRAWN BY: | STV | CHECKED BY: | CHT | SCALE: | 1: 1000 |
|---|---|---|---|---|---|
| FILE NAME: | 1279.Figures | DATE: | Aug 2022 | | 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=361.60
CWC=362.00

~Inv @ Intersection
Stm=360.50
Wat=361.30
San=359.50
CWC=360.00

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

Rideau River Street

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

150mmø Wmn, Street A (Pinery Trail to Rideau River Street) & Rideau River Street

~Inv @ Intersection
Stm=354.95
Wat=354.95
San=354.15
CWC=354.45

150mmø Wmn, Streets B, C & E

150mmø Wmn

Street E

Street C

Street B

Street A

Street D

200mmø Wmn

~Inv @ Intersection
Stm=354.30
Wat=354.45
San=353.60
CWC=354.00

~Inv @ Intersection
Stm=356.55
Wat=356.45
San=355.50
CWC=356.00

~Inv @ Intersection
Stm=360.05
Wat=359.85
San=359.00
CWC=359.50

~Inv @ Intersection
Stm=359.60
Wat=360.60
San=358.75
CWC=359.10

Pinery Trail

Rideau River Place

Rideau River Street

300mmø Wmn

Ex 200mmø Wmn

Pinery Trail

900mmø Stm into SWM Pond

~Inv @ Intersection
Stm=358.25
Wat=358.15
San=357.20
CWC=357.70

~Inv @ Intersection
Stm=355.00
Wat=355.05
San=353.10
CWC=354.50

~Inv @ Intersection
Stm=355.60
Wat=355.65
San=352.70
CWC=355.00

200mmø Wmn Pinery Trail (Street A to West End)

Split point of sanitary and 3rd pipe.

Wetland

Infiltrating Dry Pond

Ex. Edge of Swamp

Diversion pipe for winter months.

10m Ditching Setback

30m Wetland Buffer

Level spreader

15m Wetland Buffer

300mmø Wmn, Street A (Conservation Drive to Pinery Trail)

Street A

3rd pipe (CWC) system for roof leaders.

200mmø San, Remainder of Subdivision

~Inv @ Intersection
Wat=355.65
San=351.45
CWC=356.00

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

~Inv @ Intersection
Stm=354.90
Wat=355.80
San=350.40
CWC=354.40

Roy Schmidt Road

Wasaga Crescent

Kawartha Street

Street F

Overflow to storm sewer from CWC system

200mmø Wmn, Street F

250mmø San, Street A (Conservation Drive to North end of Street F)

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

~Inv @ Intersection
Stm=354.45
Wat=354.85
San=350.00
CWC=354.00

Overflow to storm sewer from CWC system

600mmø Stm to External SWM Facility
Required Inv=353.35

1050mmø Stm to External SWM Facility
Required Inv=352.90

250mmø San to External SPS
Required Inv=349.44

Connection of watermain by others

Conservation Drive

Ex Gutter

Ex Gutter

MERITECH engineering
115 Bissett Street North, Suite 202 Cambridge
T 519.624.1854 F 519.624.1856 www.meritech.ca

DRAWING: Preliminary Servicing Plan
556 & 576 Conservation Drive

| | | | |
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| | 1279-SS | | |

Rideau River Street

Street 'D'

Street 'E'

Street 'C'

Street 'B'

Street 'A'

Pinery Trail

Rideau River Place

Rideau River Street

Pinery Trail

Street 'A'

Roy Schmidt Road

Wasaga Crescent

Kawartha Street

Street 'F'

Street 'F'

Street 'A'

Conservation Drive

Infiltration gallery

Infiltration gallery in trail block

Match existing elevations along entire northern limit

Single row silt fence, as per OPSD 219.130.

Constructed Wetland/Infiltrating Basin

SWM Pond to act as Temp Silt Pond during grading operations

School

Park

Topsoil not to be stockpiled on the park block

Double row silt fence, as per OPSD 219.130.

Infiltration gallery

Ex. Edge of Swamp

Ex. Ut. Of Creek

Ex. Ut. Of Water

Ex. Hedgerow

Ex. Post & Wire Fence

Ex. Gas Main/Valve

Ex. Gutter

Ditch/Flow

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

Temp Silt Pond

Double Silt Fence

Single Silt Fence

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

Sediment Control Pond Outlet Detail

Not to Scale

MERITECH engineering
115 Bissett Street North, Suite 202 Lionridge
T 519.514.1807 E info@meritech.ca

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

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| FILE NAME: | 1279-ESC |
| | 1279 Figures |