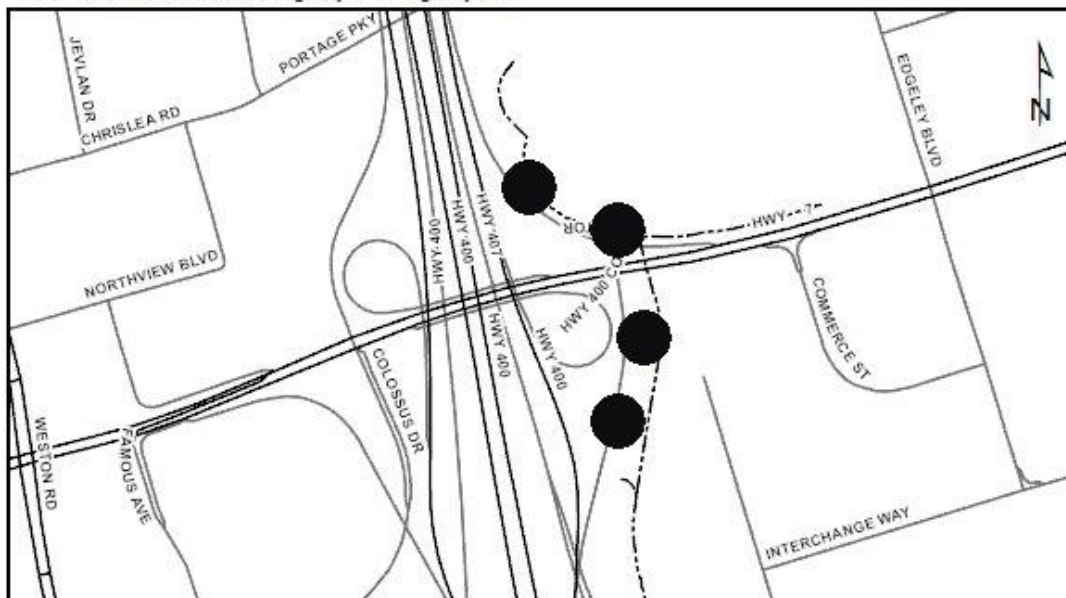


CITY OF VAUGHAN

11.7 REGIONAL MUNICIPALITY OF YORK

To construct, reconstruct, erect or place a building or structure, site grade, temporarily or permanently place, dump or remove any material, originating on the site or elsewhere and alter a watercourse on east side of Highway 7 at Highway 400 interchange, in the City of Vaughan, Don River Watershed as located on the property owned by Ministry of Transportation. The purpose is to undertake reconstruction of the Highway 400 and Highway 7 on and off ramps and culvert extension work east of the Highway 7 and Highway 400 interchange. The works will include, repaving and widening of Highway 7 to accommodate rearrangement of lanes, installation of multi-use path and raised bike lanes, relocation of northern end of the S-E/W ramp approximately 60 m to the east, realignment of approximately 240 m of Black Creek Tributary in association with the new culvert (C8) installation, realignment of the E-N ramp. The works are associated with the VIVA Bus Rapid Transit (BRT) project. The warmwater construction timing window will be applied to this project.

MAP LOCATION: 56843 Highway 7 and Highway 400



The permit will be issued for the period of November 9, 2018 to November 8, 2020 in accordance with the following documents and plans which form part of this permit:

- **MTOR-CIV-GEN-005; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Legend and Notes; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;**
- **MTOR-CIV-REM-102; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 7 & Highway 400 E-N, N-W, S-E/W Ramps - Removals, 21+075 to 21+380; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;**
- **MTOR-CIV-REM-104; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 400 E-N Ramp – Removals, 1+160 to 1+380;**

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prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;

- MTOR-CIV-REM-105; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 400 S-E/W Ramp – Removals, 0+541 to 0+885; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;
- MTOR-CIV-NC-102; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 7 & Highway 400 E-N, N-W, S-E/W Ramps – Plan, 21+075 to 21+380; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated January 26, 2018; received by TRCA March 22, 2018;
- MTOR-CIV-NC-104; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 400 E-N Ramp – Plan, 1+160 to 1+380; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;
- MTOR-CIV-NC-105; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 400 S-E/W Ramp – Plan, 0+541 to 0+885; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated January 26, 2018; received by TRCA March 22, 2018;
- MTOR-CIV-NC-109; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 7 – Profile, 20+850 to 21+200; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;
- MTOR-CIV-NC-110; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 7 – North Edge of Pavement Profile, 20+850 to 21+200; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;
- MTOR-CIV-NC-111; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 7 – South Edge of Pavement Profile, 20+850 to 21+200; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;
- MTOR-CIV-NC-112; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 7 – Profile, 21+200 to 21+550; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;
- MTOR-CIV-NC-113; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 7 – North Edge of Pavement Profile, 21+200 to 20+527.289; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;
- MTOR-CIV-NC-114; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Highway 7 – South Edge of Pavement Profile, 21+200 to 21+550; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;
- MTOR-CIV-NC-115; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, E-N Ramp – Profile, 1+070 to 1+350; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;
- MTOR-CIV-NC-116; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, E-N Ramp – Profile, 1+350 to 1+380; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;

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- **MTOR-CIV-NC-117; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, S-E/W Ramp – Profile, 0+541.59 to 0+700; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;**
- **MTOR-CIV-NC-118; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, S-E/W Ramp – Profile, 0+700 to 1+000; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;**
- **MTOR-CIV-NC-126; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramp S-E/W, C8 and C9 Culvert, Plan & Profile, 0+000 to 0+350; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated January 26, 2018; received by TRCA March 22, 2018;**
- **MTOR-CIV-NC-127; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramp S-E/W, C8 and C9 Culvert, Sections, 0+061.37 to 0+263.67; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated January 26, 2018; received by TRCA March 22, 2018;**
- **MTOR-CIV-NC-128; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramp S-E/W, C8 and C9 Culvert, Detail; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated March 16, 2018; received by TRCA March 22, 2018;**
- **MTOR-CIV-NC-129; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramp S-E/W, C8 and C9 Culvert, Interim Channel Protection Plan, 0+000 to 0+350; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated March 16, 2018; received by TRCA March 22, 2018;**
- **MTOR-CIV-NC-130; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramp S-E/W, C8 and C9 Culvert, Restoration Planting Plan, 0+000 to 0+350; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated January 26, 2018; received by TRCA March 22, 2018;**
- **MTOR-CIV-NC-131; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps E-N, Restoration Planting Plan, Existing E-N Ditch, 1+000 to 1+380; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated January 26, 2018; received by TRCA March 22, 2018;**
- **MTOR-CIV-ESC-200; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Erosion and Sediment Control, Culvert C8 at STA 21+261; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated March 15, 2018; received by TRCA March 22, 2018;**
- **MTOR-CIV-ESC-201; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Erosion and Sediment Control, Culvert C8 at STA 21+261; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated March 15, 2018; received by TRCA March 22, 2018;**
- **MTOR-CIV-ESC-204; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – New Construction, Erosion and Sediment Control, Culvert C4 (Cleanout); prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated March 14, 2018; received by TRCA March 22, 2018;**
- **MTOR-CIV-STAGE-103; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – Staging, Stage 1; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated January 26, 2018; received by TRCA March 22, 2018;**
- **MTOR-CIV-STAGE-200; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – Staging, Stage 2; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;**

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- **MTOR-CIV-STAGE-300; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – Staging, Stage 3; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated November 21, 2017; received by TRCA March 22, 2018;**
- **MTOR-CIV-STAGE-400; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, Civil Works – Staging, Stage 4; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated January 16, 2018; received by TRCA March 22, 2018;**
- **MTOR-STC-C8-001; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, C8 Structure, Key Plan and Index, 21+245 to 21+275; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C8-100; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, C8 Culvert, General Arrangement, 21+245 to 21+275; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C8-200; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, C8 Culvert, Culvert Stage 1 & 2, 21+245 to 21+275; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C8-201; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, C8 Culvert, Culvert Stage 3, 21+245 to 21+275; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C8-202; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, C8 Culvert, Culvert Stage 4, 21+245 to 21+275; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C8-203; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, C8 Culvert, Culvert Staging Final, 21+245 to 21+275; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C8-204; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, C8 Culvert, Erosion and Sediment Control Plan, 21+245 to 21+275; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C8-300; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, C8 Culvert, Culvert Reinforcing, 21+245 to 21+275; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C8-301; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, C8 Culvert, Typical Details, 21+245 to 21+275; prepared by on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C8-302; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 Ramps, C8 Culvert, Wingwall Reinforcing, 21+245 to 21+275; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C9-001; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 S-E/W Ramp, C9 Structure, Key Plan and Index, 0+812 to 0+853; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**

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- **MTOR-STC-C9-100; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 S-E/W Ramp, C9 Culvert, General Arrangement, 0+812 to 0+853; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C9-200; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 S-E/W Ramp, C9 Culvert, Erosion and Sediment Control Plan, 0+812 to 0+853; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C9-300; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 S-E/W Ramp, C9 Culvert, Culvert Reinforcing, 0+812 to 0+853; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **MTOR-STC-C9-301; Vivanext BRT H2-West & H2-East; MTOR-Highway 400 S-E/W Ramp, C9 Culvert, Wingwall Reinforcing, 0+819 to 0+853; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated August 25, 2017; received by TRCA March 22, 2018;**
- **H2W-LND-TREE-206; Vivanext BRT H2-West & H2-East; H2W – Highway 7, Streetscape Design, Street Tree Preservation Plan, 20+900 to 21+600; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated December 9, 2016; received by TRCA March 22, 2018;**
- **H2W-LND-TREE-208; Vivanext BRT H2-West & H2-East; H2W – MTOR SE Ramp, Streetscape Design, Street Tree Preservation Plan; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated December 9, 2016; received by TRCA March 22, 2018;**
- **H2W-LND-TREE-209; Vivanext BRT H2-West & H2-East; H2W – MTOR NE Ramp, Streetscape Design, Street Tree Preservation Plan; prepared by EDCO on behalf of York Region Rapid Transit Corporation; dated December 9, 2016; received by TRCA March 22, 2018.**

RATIONALE

The application was reviewed by staff on the basis of the following information:

Proposal:

The proposal is to undertake reconstruction of the Highway 400 and Highway 7 on and off ramps and culvert extension work east of Highway 7 and Highway 400 interchange.

The works include repaving and widening of Highway 7 to accommodate rearrangement of lanes; installation of multi-use path and raised bike lanes; replacement of storm sewer lines and replacement of catch basins and manhole covers; relocation of northern end of the S-E/W ramp approximately 60 m to the east; decommissioning of Existing Black Creek Tributary culvert (C4) which passes under Highway 7; installation of New culvert (C8) to replace culvert C4; realignment of approximately 240 m of Black Creek Tributary in association with the new culvert C8 installation; Installation of a new culvert (C9) underneath the realigned S-E/W ramp; Minor roadway improvements to the W-N ramp; Realignment of the E-N ramp and relocation of the stormwater management pond; The works are associated with the VIVA Bus Rapid Transit (BRT) project.

Control of Flooding:

The proposed project is not anticipated to impact flooding, conveyance or storage of floodwaters.

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Pollution:

Standard erosion and sediment control measures, including silt fencing, rock flow check dam, silt control filter will be implemented prior to construction and maintained for the duration of construction, and until the site is stabilized and restored, in order to prevent construction generated sediments from entering any watercourse or wetland. Erosion and sediment control measures have been provided in accordance with the Greater Golden Horseshoe Area Conservation Authorities' Erosion and Sediment Control Guideline for Urban Construction (2006).

Dynamic Beaches:

Not applicable

Erosion:

No geotechnical issues have been identified.

Conservation of Land:

The works will be undertaken in the dry. The warmwater construction timing window of July 1 to March 31 will apply to this project.

Plantings

All disturbed areas will be restored with native non-invasive species.

Policy Guidelines:

This proposal complies with Section 8.9 Infrastructure Policies of the The Living City Policies for Planning and Development in the Watersheds of the Toronto and Region Conservation Authority.

CFN: 56843 - Application #: 0132/17/VAUG

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Date: October 30, 2018