ECOLOGICAL LAND CLASSIFICATION

LONDON RAPID TRANSIT PROJECT - ENVIRONMENTAL IMPACT STUDY
For City of London

DATE:  JANUARY 2018
SCALE:  1:4000
PROJECT:  141-21085-00
FILE. NO.:  141-21085-00 F16

FIGURE 16

LEGEND

PROPOSED DESIGN (NOVEMBER 2017)
SITE 2 BOUNDARY
COIL_2, CONSTRUCTED PARKLAND
COIL_6, CONSTRUCTED RECREATIONAL
CVCL_3, COMMERCIAL BUSINESS SECTOR
CVC_6, COMMERCIAL
CVC_2, TRANSPORTATION (RAILWAYS, PARKING)
CVCL_1, LOW DENSITY RESIDENTIAL
CVCL_2, HIGH DENSITY RESIDENTIAL
CVCL_1, RESIDENTIAL - SINGLE STORY RESIDENTIAL
CVC_1, EDUCATION
CVC_2, COMMERCIAL AND INSTITUTIONAL - HEALTH
FODM1-4, DRY-FRESH MIXED OAK DECIDUOUS FOREST
FODM11, DRY-FRESH BLACK LOCUST DECIDUOUS FOREST
FODM4-1, DRY-FRESH MAPLE DECIDUOUS FOREST
FODM4-5, DRY-FRESH MANITOBA MAPLE DECIDUOUS FOREST
FODM6, FRESH MOIST SUGAR MAPLE DECIDUOUS FOREST
FODM6-2, FRESH MOIST SUGAR MAPLE-BLACK MAPLE DECIDUOUS FOREST
FODM7, FRESH MOIST LOWLAND DECIDUOUS FOREST
FODM8-3, FRESH MOIST COTTONWOOD DECIDUOUS FOREST
MEM, MIXED MEADOW
MEMM3, DRY-FRESH MIXED MEADOW
MEM3, DRY-FRESH GRAMINOID MEADOW
MEMT, OPEN MEADOW
MEMW, OPEN WETLAND
OATM, OPEN GRASSY WETLAND
OAW, OPEN WATER
SHOR1, OPEN SHORELINES
WDM3-3, SWAMP MAPLE MINERAL DECIDUOUS SWAMP
WDHM, DRY-FRESH DECIDUOUS WOODLAND
WD_M, DRY-FRESH BLACK WILLOW DECIDUOUS WOODLAND

Data Source: Ministry of Natural Resources,

ECOLOGICAL LAND CLASSIFICATION
ECOLOGICAL LAND CLASSIFICATION


LEGEND
- PROPOSED DESIGN (NOVEMBER 2017)
- SITE 3 BOUNDARY
- ECOLOGICAL LAND CLASSIFICATION
  - CGL_2, CONSTRUCTED PARKLAND
  - CVI_2, COMMERCIAL BUSINESS SECTOR
  - CVI_3, COMMERCIAL LIGHT INDUSTRY
  - CVI_4, TRANSPORTATION (RAILWAYS, PARKING)
  - CVS_1, EDUCATION
  - CVS_2, COMMERCIAL AND INSTITUTIONAL - HEALTH
  - FODM_L, DRY-FRESH MIXED OAK DECIDUOUS FOREST
  - FODM_M, DRY-FRESH MIXED OAK DECIDUOUS FOREST
  - FODM_P, DRY-FRESH MIXED OAK DECIDUOUS FOREST
  - FODM_T, DRY-FRESH MIXED OAK DECIDUOUS FOREST
  - FODM_U, DRY-FRESH MIXED OAK DECIDUOUS FOREST
  - FODM_V, DRY-FRESH MIXED OAK DECIDUOUS FOREST
  - FODM_W, DRY-FRESH MIXED OAK DECIDUOUS FOREST
  - FODM_X, DRY-FRESH MIXED OAK DECIDUOUS FOREST
  - FODM_Y, DRY-FRESH MIXED OAK DECIDUOUS FOREST
  - FODM_Z, DRY-FRESH MIXED OAK DECIDUOUS FOREST
  - OAW, OPEN WATER
  - SHOR, OPEN SHORELINE
  - SWMP_L, SWAMP MIXED DEEP WOODLAND
  - SWMP_M, SWAMP MIXED DEEP WOODLAND
  - SWMP_P, SWAMP MIXED DEEP WOODLAND
  - SWMP_T, SWAMP MIXED DEEP WOODLAND
  - SWMP_U, SWAMP MIXED DEEP WOODLAND
  - SWMP_V, SWAMP MIXED DEEP WOODLAND
  - SWMP_W, SWAMP MIXED DEEP WOODLAND
  - SWMP_X, SWAMP MIXED DEEP WOODLAND
  - SWMP_Y, SWAMP MIXED DEEP WOODLAND
  - SWMP_Z, SWAMP MIXED DEEP WOODLAND

Date: January 2018
Scale: 1:4000
Project: 141-21085-00
File No.: 141-21085-00 F19
Figure: 19
FIGURE 1: 4000 SCALE

LEGEND

PROPOSED DESIGN (NOVEMBER 2017)
SITEL BOUNDARY
ECOLOGICAL LAND CLASSIFICATION
CGL_1, CONSTRUCTED PARKLAND
CGL_2, CONSTRUCTED RECREATION
CVC_1, COMMERCIAL BUSINESS SECTOR
CVC_2, COMMERCIAL LIGHT INDUSTRY
CVI_1, TRANSPORTATION (RAILWAYS, PARKING)
CVR_1, LOW DENSITY RESIDENTIAL
CVR_2, HIGH DENSITY RESIDENTIAL
CVR_3, RESIDENTIAL - SINGLE FAMILY RESIDENTIAL
CVS_1, EDUCATION
CVS_2, COMMERCIAL AND INSTITUTIONAL - HEALTH
FORMD_1, DRY-FRESH MIXED OAK DECIDUOUS FOREST
FORMD_2, NATURALIZED DECIDUOUS FOREST
FORMD_3, DRY-FRESH BLACK LOCUST DECIDUOUS FOREST
FORMD_4, DRY-FRESH SUGAR MAPLE DECIDUOUS FOREST
FORMD_5, FRESH MOIST SUGAR MAPLE DECIDUOUS FOREST
FORME_1, FRESH MOIST LONDON FOREST
FORME_2, FRESH MOIST COTTONWOOD DECIDUOUS FOREST
FORMP_1, MIXED PRAIRIE DECIDUOUS FOREST
FORMS_1, CATTAIL MINERAL SHALLOW MARSH
FORMS_2, DRY-FRESH GRAMINOID MEADOW
FORMS_3, MIXED MEADOW
FORMS_4, OPEN WATER
FORMS_5, SWAMP MAPLE MINERAL DECIDUOUS SWAMP
FORMS_6, SWAMP MAPLE MINERAL DECIDUOUS THICKET
FORMS_7, BUCKTHORN DECIDUOUS VARIEGATED
FORMS_8, DRY-FRESH BUCKTHORN WOODLAND
FORMS_9, DRY-FRESH BLACK WALNUT DECIDUOUS WOODLAND


ECOLOGICAL LAND CLASSIFICATION

LONDON RAPID TRANSIT PROJECT - ENVIRONMENTAL IMPACT STUDY
For City of London

DATE: JANUARY 2018
PROJECT: 141-21085-00
FILE NO.: 141-21085-00-F20
LEGEND

- PROPOSED DESIGN (NOVEMBER 2017)
- ECOLOGICAL LAND CLASSIFICATION

CGL_2, CONSTRUCTED PARKLAND
CGL_4, CONSTRUCTED RECREATIONAL
CVC_1, COMMERCIAL BUSINESS SECTOR
CVC_2, COMMERCIAL LIGHT INDUSTRY
CVL_1, LOW DENSITY RESIDENTIAL
CVL_2, MEDIUM DENSITY RESIDENTIAL
CVL_3, HIGH DENSITY RESIDENTIAL
CVL_4, EDUCATION
CVL_5, COMMERCIAL AND INSTITUTIONAL - HEALTH
FODM_1, DRY-FRESH MIXED OAK DECIDUOUS FOREST
FODM_2, DRY-FRESH BLACK LOCUST DECIDUOUS FOREST
FODM_3, DRY-FRESH BLACK WALNUT DECIDUOUS WOODLAND
FODM_4, DRY-FRESH BLACK LOCUST DECIDUOUS WOODLAND


ECOLOGICAL LAND CLASSIFICATION

LONDON RAPID TRANSIT PROJECT - ENVIRONMENTAL IMPACT STUDY
For City of London

DATE: JANUARY 2018
SCALE: 1:4000
PROJECT: 141-21085-00
FILE NO.: 141-21085-00 F.21

FIGURE 21
LEGEND

- PROPOSED DESIGN (NOVEMBER 2017)
- ECOLOGICAL LAND CLASSIFICATION

ECOLOGICAL LAND CLASSIFICATION

ECOLOGICAL LAND CLASSIFICATION

LONDON RAPID TRANSIT PROJECT - ENVIRONMENTAL IMPACT STUDY
For City of London

DATE: JANUARY 2018
PROJECT: 141-21085-00
FILE NO.: 141-21085-00 F23

LEGEND

PROPOSED DESIGN (NOVEMBER 2017)
SITE B BOUNDARY
ECOLOGICAL LAND CLASSIFICATION
CGL_2, CONSTRUCTED PARKLAND
CGL_4, CONSTRUCTED RECREATIONAL
CVC_2, COMMERCIAL BUSINESS SECTOR
CVC_3, COMMERCIAL LIGHT INDUSTRY
CVL_1, LOW DENSITY RESIDENTIAL
CVL_2, HIGH DENSITY RESIDENTIAL
CVL_3, EDUCATION
CVL_4, COMMERCIAL AND INSTITUTIONAL - HEALTH
FORMS 1, DRY-FRESH MIXED OAK DECIDUOUS FOREST
FORMS 2, NATURAL OAK DECIDUOUS FOREST
FORMS 3, DRY-FRESH BLACK LOCUST DECIDUOUS FOREST
FORMS 4, DRY-FRESH SUGAR MAPLE DECIDUOUS FOREST
FORMS 5, DRY-FRESH SUGAR MAPLE BLACK MAPLE DECIDUOUS FOREST
FORMS 6, DRY-FRESH SUGAR MAPLE LOWLAND FOREST
FORMS 7, DRY-FRESH COTTONWOOD DECIDUOUS FOREST
FORMS 8, DRY-FRESH COTTONWOOD MIXED DECIDUOUS
FORMS 9, DRY-FRESH GRAMINOID MEADOW
FORMS 10, DRY-FRESH MIXED MEADOW
FORMS 11, OPEN WATER
FORMS 12, CATTAIL MINERAL SHALLOW MARSH
FORMS 13, DRY-FRESH MIXED OAK DECIDUOUS FOREST
FORMS 14, DRY-FRESH MIXED SUGAR MAPLE DECIDUOUS FOREST
FORMS 15, DRY-FRESH MIXED LOWLAND FOREST
FORMS 16, DRY-FRESH MIXED COTTONWOOD DECIDUOUS FOREST
FORMS 17, DRY-FRESH MIXED GRAMINOID MEADOW
FORMS 18, DRY-FRESH MIXED MEADOW
FORMS 19, DRY-FRESH MIXED WOODLAND
FORMS 20, DRY-FRESH BLACK WALNUT DECIDUOUS WOODLAND

LONDON RAPID TRANSIT PROJECT - ENVIRONMENTAL IMPACT STUDY
For City of London

ECOLOGICAL LAND CLASSIFICATION

DATE: JANUARY 2018
SCALE: 1:4000
FILE NO.: 141-21085-00 F24

LEGEND
- PROPOSED DESIGN (NOVEMBER 2017)
- SITE 6 BOUNDARY
- ECOLOGICAL LAND CLASSIFICATION

CGL_2, CONSTRUCTED PARKLAND
CGL_4, CONSTRUCTED RECREATIONAL
CVL_1, COMMERCIAL BUSINESS SECTOR
CVL_2, COMMERCIAL AND INSTITUTIONAL - HEALTH
CVL_3, COMMERCIAL AND INSTITUTIONAL - OFFICE
CVL_4, COMMERCIAL AND INSTITUTIONAL - SERVICE
CVL_5, COMMERCIAL AND INSTITUTIONAL - TOILET
CVL_6, COMMERCIAL AND INSTITUTIONAL - COLLEGE
CVL_7, COMMERCIAL AND INSTITUTIONAL - UNIVERSITY
CVL_8, COMMERCIAL AND INSTITUTIONAL - FINANCE
CVL_9, COMMERCIAL AND INSTITUTIONAL - SAVINGS
CVL_10, COMMERCIAL AND INSTITUTIONAL - RESIDENCY
CVL_11, COMMERCIAL AND INSTITUTIONAL - CORRIG INTERNATIONAL
CVL_12, COMMERCIAL AND INSTITUTIONAL - CITY HALL
CVL_13, COMMERCIAL AND INSTITUTIONAL - GOVERNMENT
CVL_14, COMMERCIAL AND INSTITUTIONAL - SOCIAL SERVICE
CVL_15, COMMERCIAL AND INSTITUTIONAL - WAREHOUSE
CVL_16, COMMERCIAL AND INSTITUTIONAL - RESIDENTIAL
CVL_17, COMMERCIAL AND INSTITUTIONAL - INDUSTRIAL
CVL_18, COMMERCIAL AND INSTITUTIONAL - FOOD
CVL_19, COMMERCIAL AND INSTITUTIONAL - TRANSPORT
CVL_20, COMMERCIAL AND INSTITUTIONAL - INFORMATION
CVL_21, COMMERCIAL AND INSTITUTIONAL - AGRICULTURE
CVL_22, COMMERCIAL AND INSTITUTIONAL - OTHER
CVL_23, RESIDENTIAL - SINGLE FAMILY RESIDENTIAL
CVL_24, RESIDENTIAL - LOW DENSITY RESIDENTIAL
CVL_25, RESIDENTIAL - MEDIUM DENSITY RESIDENTIAL
CVL_26, RESIDENTIAL - HIGH DENSITY RESIDENTIAL
CVL_27, RESIDENTIAL - MIXED	
CVL_28, INDUSTRIAL - LIGHT INDUSTRY
CVL_29, INDUSTRIAL - HEAVY INDUSTRY
CVL_30, INDUSTRIAL - POWER AND HEAT
CVL_31, INDUSTRIAL - WASTE
CVL_32, INDUSTRIAL - TRANSPORT
CVL_33, INDUSTRIAL - WATER
CVL_34, INDUSTRIAL - GAS
CVL_35, INDUSTRIAL - COMMUNICATIONS
CVL_36, INDUSTRIAL - OTHER
CVL_37, TRANSPORTATION (RAILWAYS, PARKING)
CVL_38, TRANSPORTATION (ROADS, PARKING)
CVL_39, HIGH DENSITY RESIDENTIAL
CVL_40, RESIDENTIAL - SINGLE FAMILY RESIDENTIAL
CVC_1, COMMERCIAL BUSINESS SECTOR
CVC_2, COMMERCIAL LIGHT INDUSTRY
CVC_3, TRANSPORTATION (RAILWAYS, PARKING)
CVC_4, TRANSPORTATION (ROADS, PARKING)
CVR_1, LOW DENSITY RESIDENTIAL
CVR_2, HIGH DENSITY RESIDENTIAL
CVR_3, RESIDENTIAL - SINGLE FAMILY RESIDENTIAL
CVS_1, EDUCATION
CVS_2, COMMERCIAL AND INSTITUTIONAL - HEALTH
CVS_3, COMMERCIAL AND INSTITUTIONAL - OFFICE
CVS_4, COMMERCIAL AND INSTITUTIONAL - SERVICE
CVS_5, COMMERCIAL AND INSTITUTIONAL - TOILET
CVS_6, COMMERCIAL AND INSTITUTIONAL - COLLEGE
CVS_7, COMMERCIAL AND INSTITUTIONAL - UNIVERSITY
CVS_8, COMMERCIAL AND INSTITUTIONAL - FINANCE
CVS_9, COMMERCIAL AND INSTITUTIONAL - SAVINGS
CVS_10, COMMERCIAL AND INSTITUTIONAL - RESIDENCY
CVS_11, COMMERCIAL AND INSTITUTIONAL - CORRIG INTERNATIONAL
CVS_12, COMMERCIAL AND INSTITUTIONAL - CITY HALL
CVS_13, COMMERCIAL AND INSTITUTIONAL - GOVERNMENT
CVS_14, COMMERCIAL AND INSTITUTIONAL - SOCIAL SERVICE
CVS_15, COMMERCIAL AND INSTITUTIONAL - WAREHOUSE
CVS_16, COMMERCIAL AND INSTITUTIONAL - RESIDENTIAL
CVS_17, COMMERCIAL AND INSTITUTIONAL - INDUSTRIAL
CVS_18, COMMERCIAL AND INSTITUTIONAL - FOOD
CVS_19, COMMERCIAL AND INSTITUTIONAL - TRANSPORT
CVS_20, COMMERCIAL AND INSTITUTIONAL - INFORMATION
CVS_21, COMMERCIAL AND INSTITUTIONAL - AGRICULTURE
CVS_22, COMMERCIAL AND INSTITUTIONAL - OTHER
CVS_23, TRANSPORTATION (RAILWAYS, PARKING)
CVS_24, TRANSPORTATION (ROADS, PARKING)

LEGEND

- PROPOSED DESIGN (NOVEMBER 2017)
- SITE 7 BOUNDARY
- ECOLOGICAL LAND CLASSIFICATION

CGL_2, CONSTRUCTED PARKLAND
CGL_4, CONSTRUCTED RECREATIONAL
CVC_2, COMMERCIAL BUSINESS SECTOR
CVC_2, COMMERCIAL LIGHT INDUSTRY
CVI_1, TRANSPORTATION (RAILWAYS, PARKING)
CVR_1, LOW DENSITY RESIDENTIAL
CVR_2, MED DENSITY RESIDENTIAL
CVR_3, HIGH DENSITY RESIDENTIAL
CVR_4, RESIDENTIAL - SINGLE FAMILY RESIDENTIAL
CVS_1, EDUCATION
CVS_2, COMMERCIAL AND INSTITUTIONAL - HEALTH
FORME, DRY-FRESH MIXED OAK DECIDUOUS FOREST
FORME, NATURALIZED DECIDUOUS MEADOWS
FORME, DRY-FRESH BLACK LOCUST DECIDUOUS FOREST
FORME, DRY-FRESH MAPLE DECIDUOUS FOREST
FORME, DRY-FRESH SUGAR MAPLE DECIDUOUS FOREST
FORME, DRY-FRESH PINE CONIFEROUS FOREST
FORME, DRY-FRESH SUGAR MAPLE-DECIDUOUS FOREST
FORME, DRY-FRESH MIXED DECIDUOUS-CONIFEROUS FOREST
FORME, DRY-FRESH MIXED CONIFEROUS-DECIDUOUS FOREST
FORME, DRY-FRESH MIXED OAK-COTTONWOOD DECIDUOUS WOODLAND
FORME, DRY-FRESH MIXED OAK-BLACK WALNUT DECIDUOUS WOODLAND
MEGA, MIXED MEADOW
MEGM3, DRY-FRESH MIXED MEADOW
MEM, MIXED MEADOW
MOW, OPEN WATER
MASMI-1, CATTAIL MINERAL SHALLOW MARSH
WODM4-11, DRY-FRESH BLACK LOCUST DECIDUOUS FOREST
WODM4-5, DRY-FRESH MANITOBA MAPLE DECIDUOUS FOREST
WODM4-2, DRY-FRESH MOIST SUGAR MAPLE DECIDUOUS FOREST
WODM4, DRY-FRESH DECIDUOUS WOODLAND
WODM4-4, DRY-FRESH BLACK WALNUT DECIDUOUS WOODLAND
WODM8-3, DRY-MOIST COTTONWOOD DECIDUOUS FOREST
WODM8, OPEN WATER


ECOLOGICAL LAND CLASSIFICATION

London Rapid Transit Project - Environmental Impact Study
For City of London

Date: 1 January 2018
Project: 141-21085-00
File No.: 141-21085-00-F26

FIGURE 26
It is anticipated that widening to the north will occur after the creek has been diverted and relocated beyond RT area of impact.
The preferred alternative involves minor widening (approximately 0.4 m) to the north to accommodate two-way BRT traffic in dedicated lanes, two westbound general traffic lanes and a sidewalk on the north side. The existing parapet wall, sidewalk and deck will be removed and replaced as part of the proposed construction. The bridge sub-structure will not be impacted and works below the high-water mark are not required.

Changes to the structure of Kensington Bridge are not required. The bridge will continue to support eastbound traffic.
The preferred alternative involves widening of the existing bridge to the east to accommodate two dedicated RT lanes and two bike lanes, while maintaining the existing general traffic lanes and sidewalks. The pier extension would be constructed within the permanently wet area of Medway Creek (increased in-water footprint).
The preferred alternative includes a full bridge replacement. The new bridge will remain oriented along the same axis, but the overall footprint will be approximately 11.3 m wider than the existing. In-water works and alteration to the banks, associated vegetation and trail system are anticipated.
The preferred alternative involves widening the existing bridge to the east by approximately 9.4 m. Cofferdams will likely be required to facilitate work in the dry while the pier is extended. Work to expand the abutments will also be required and will involve alteration to the banks and vegetation.

Modifications to the grade and alignment of the access ramp may need to occur to meet current accessibility standards.
The preferred alternative involves widening the existing bridge to the east by approximately 9.4 m. Cofferdams would likely be required to facilitate work in the dry while the pier is extended. Work to expand the abutments would also be required and would involve alteration to the banks and vegetation.

Modifications to the grade and alignment of the access ramp may need to occur to meet current accessibility standards.
The preferred alternative involves expansion of the road cross-section from a four-lane road to a six-lane road with two dedicated RT lanes, a sidewalk on the west and a multi-use trail to the east. Expansion is proposed primarily to the east.

Reductions to the landscape / utility strip and increased side slope grading to 2:1 have been included to reduce the impact to the natural area.

The preferred alternative involves the loss of approximately 233 m² of wetland area within the Provincially Significant Wetland.
LONDON RAPID TRANSIT PROJECT - ENVIRONMENTAL IMPACT STUDY
For City of London

FILE NO.: 141-21085-00  PROJ. NO.: 141-21085-00 F.34
DATE: APRIL 2018  SCALE: 1:2500

LEGEND
- SITE 7 BOUNDARY
- MAXIMUM HAZARD/FLOODLINE
- SIGNIFICANT VALLEYLANDS
- UNMAPPED VEGETATION PATCH
- REMOVED BY LANDOWNER IN 2017 PRIOR TO SITE INVESTIGATION
- WATERCOURSE
- PARK & RIDE FACILITY


PROPOSED INFRASTRUCTURE:
SITE 7 - EXETER RD PARK & RIDE

For City of London