

1 | TBU43 PLAN
A1.01 1:500

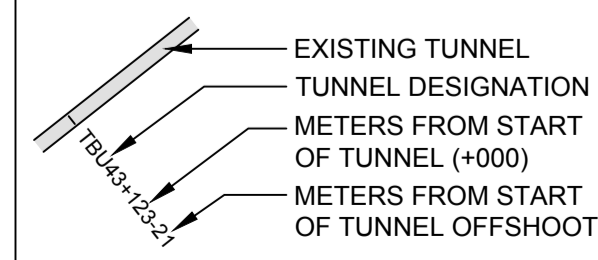
GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
- DRAWINGS ARE NOT TO BE SCALED FOR SIZE OR DIMENSION.
- PATCH, REPAIR AND REFINISH ALL EXISTING SURFACES AND MATERIALS DAMAGED DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR RESPONSIBLE TO VERIFY EXISTING DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFY CONSULTANT IF ANY DEVIATIONS FROM DOCUMENTS ARE FOUND IN THE FIELD, INCLUDING UNFORESEEN CONDITIONS AFFECTING THE WORK WHICH MAY BE ENCOUNTERED.
- REPAIR ANY EXISTING DAMAGED CONCRETE AND CONCRETE AT LOCATIONS WHERE CURBS, PADS AND EQUIPMENT HAS BEEN REMOVED. REFER TO SPECIFICATIONS FOR CONCRETE REPAIR PRODUCT TO BE USED.
- SIZE AND LOCATION OF EXISTING SERVICES ARE APPROXIMATE. ALL SERVICES MAY NOT BE INDICATED. COORDINATE SERVICES WITH ALL DISCIPLINES FOR EXACT SIZE AND LOCATION.
- ALL PENETRATIONS / VOIDS TO BE SEALED OR FIRE STOPPED AS REQUIRED TO MATCH FIRE RATING OF ASSEMBLY. USE FIRESTOPPING SYSTEM SUITABLE FOR EACH SIZE AND TYPE OF PENETRATION / VOID.
- PROVIDE BLOCKING, STRAPPING, NAILING STRIPS, WOOD FRAMING, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED.
- PROVIDE FIRESTOP ASSEMBLY AT FIRE RATED WALL TO ENSURE FIRE RATING EXTENDS TO SURROUNDING WALLS, ROOF, AND FLOOR.
- WHERE SURROUNDING GRADE SURFACE FINISHES HAVE BEEN DISTURBED DURING DEMOLITION OR CONSTRUCTION RESTORE TO ORIGINAL FINISHES.
- NEW WALLS IN TUNNEL AND EXISTING WALL INFILL TO BE ONE HOUR FIRE RESISTANCE RATED 190 CONCRETE BLOCK.

BUILDING CODE ANALYSIS - SERVICE TUNNEL TBU43 / NTBU43

		APPLICABLE CODE REFERENCE NUMBER
<input type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input checked="" type="checkbox"/> ALTERATION <input type="checkbox"/> CHANGE OF USE		
BUILDING CODES USED : NATIONAL BUILDING CODE OF CANADA 2015 NATIONAL FIRE CODE OF CANADA 2014 NATIONAL ENERGY CODE 2017		
MAJOR OCCUPANCY CLASSIFICATION: N/A - EXISTING UNDERGROUND SERVICE SPACE		3.2.1.1.8
BUILDING AREA = EXISTING - 520 m ² ADDITION = 874 m ² TOTAL = 1394 m ² NUMBER OF STOREYS ABOVE GRADE = 0 NUMBER OF STOREYS BELOW GRADE = 1 NEW MEZZANINE AREA : NA NUMBER OF STREETS / FIREFIGHTER ACCESS : N/A		
SPRINKLER SYSTEM REQUIRED : <input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> IN LIEU OF ROOF RATING <input checked="" type="checkbox"/> NOT REQUIRED		3.2.4.1
PERMITTED CONSTRUCTION : <input type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON-COMBUSTIBLE <input checked="" type="checkbox"/> BOTH		
ACTUAL CONSTRUCTION : <input type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON-COMBUSTIBLE <input checked="" type="checkbox"/> BOTH		
STANDPIPE REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.5.8
ADEQUATE WATER SUPPLY / SERVICE : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3.2.5.7
FIRE ALARM REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.4.1
FIRE DETECTORS REQUIRED : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3.2.4.10
SMOKE DETECTORS REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.4.11
EMERGENCY LIGHTING REQUIRED : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3.2.7.3
EXIT SIGNAGE REQUIRED : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3.3.1.24
BARRIER FREE ACCESS REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (EXPLAIN)		3.8.2.1
HAZARDOUS SUBSTANCES : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
HIGH BUILDING : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.6
OCCUPANT LOAD: - BASED ON STAFFING <input checked="" type="checkbox"/> BASED ON CODE <input type="checkbox"/> SERVICE SPACE NOT OCCUPIED ON A FULL-TIME BASIS WC'S REQUIRED: - N/A		
MINIMUM NUMBER OF REQUIRED EXITS = 2 TRAVEL DISTANCES = 50 m SERVICE SPACE		3.3.1.3.7 3.4.2.4.3
REQUIRED FIRE RESISTANCE RATING: FLOORS = N/A BETWEEN SERVICE SPACE AND ADJOINING BUILDING = 1 HR 3.6.2.1		
MECHANICAL ROOMS = N/A ELECTRICAL ROOMS = N/A BEARING ASSEMBLIES = N/A		
MAXIMUM OVERALL THERMAL TRANSMITTANCE (W/(m ² -K)): ZONE 7A TABLE 3.2.2.2 ROOF = 0.138 (RSI 7.25) TABLE 3.2.3.1 ASSEMBLIES IN CONTACT WITH THE GROUND = 0.284 (RSI 3.52) TO 2.4m BELOW GROUND LEVEL OR BOTTOM OF WALL TABLE 3.2.2.4 DOES NOT APPLY, 3.2.2.4.3)a TABLE 3.2.2.3 WINDOW = N/A DOOR = 2.2 (RSI 0.45)		

TUNNEL MARKER LEGEND



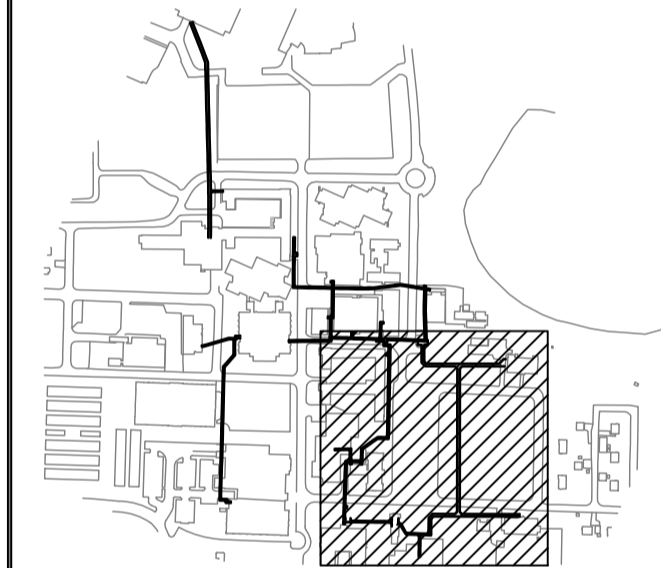
LEGEND

EXISTING TUNNEL	
NEW TUNNEL	
EXISTING BUILDING	
1 HOUR FIRE RESISTANCE RATING	

TENDER NOT FOR CONSTRUCTION



Key Plan



Revision	Description	Date
E	Issued For Tender	19/09/30
D	Issued For 99% Review	19/05/08
C	Issued For 85% Review	19/03/15
B	Issued For 50% Review	18/11/13
A	Issued For Review	18/09/07

Client

**Public Works and
Government Services Canada**

Project title

Tunnel Revitalization

Designed by
RG. MacRoberts
Drawn by
RG. MacRoberts
Approved by
B. Wolfater
PWSSC Project Manager
J. Dayman
Drawing title

Package 1 - TBU43 - Tunnel
Architectural - Fire Separations
Plan

Project no.	Drawing no.	Revision no.
1004259	A1.02	E