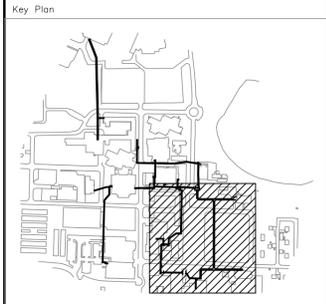


TENDER

NOT FOR CONSTRUCTION

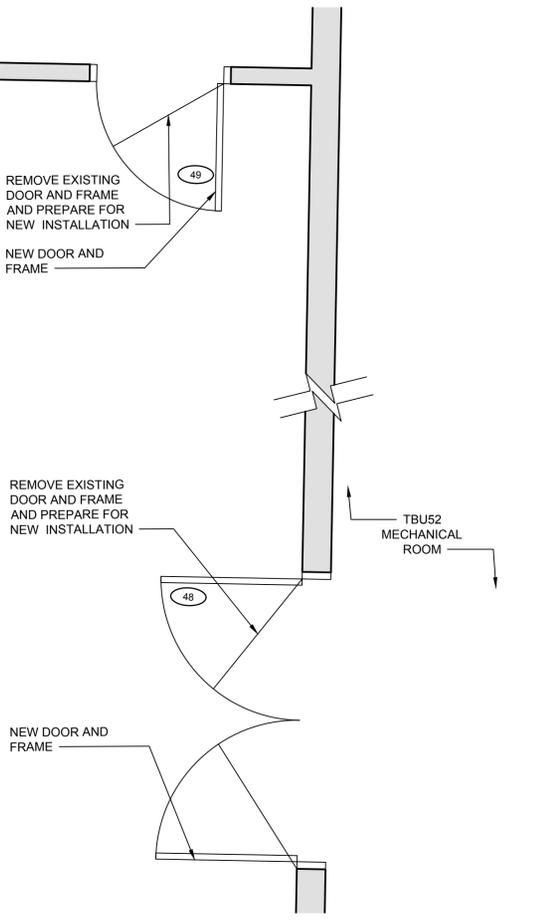
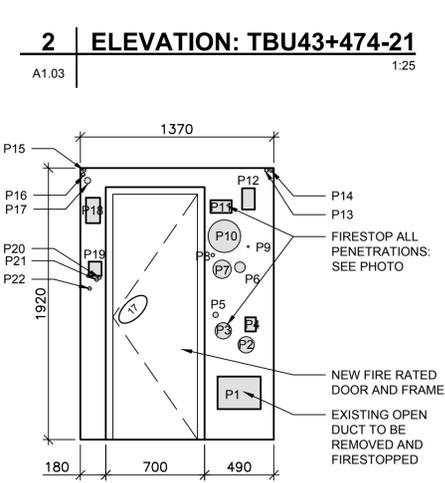
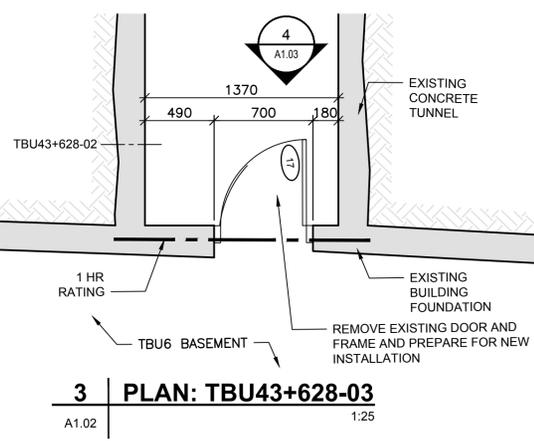
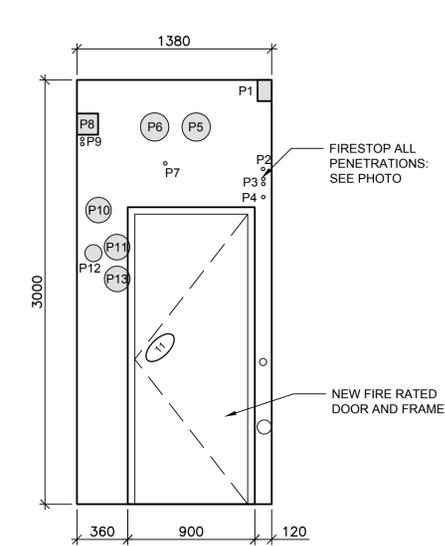
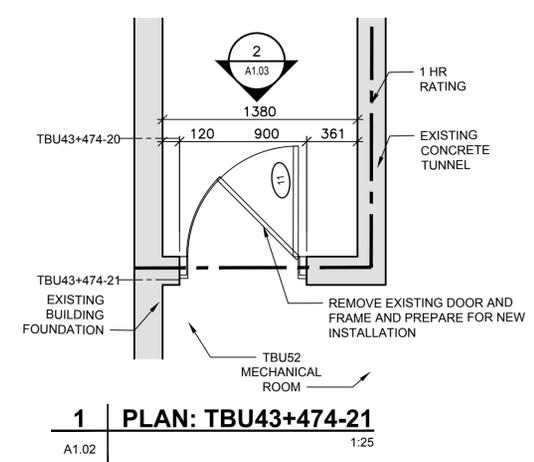
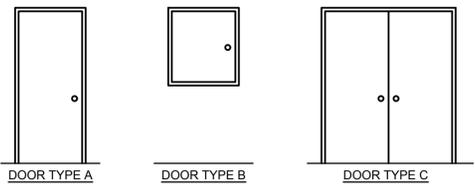


BUILDING CODE ANALYSIS - VENTILATION BUILDING TBU43+000									
PROJECT DESCRIPTION : GOVERNMENT SERVICES AND PUBLIC SERVICES CANADA - TUNNEL REVITALIZATION		APPLICABLE CODE REFERENCE NUMBER							
<input checked="" type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input type="checkbox"/> ALTERATION <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: F3 - LOW HAZARD INDUSTRIAL PART 9 APPLIES		9.10.2.1 1.3.3.3							
BUILDING AREA = NEW 67.5 m ² NUMBER OF STOREYS ABOVE GRADE = 1 NUMBER OF STOREYS BELOW GRADE = 1 NEW MEZZANINE AREA = NA									
NUMBER OF STREETS / FIREFIGHTER ACCESS : 1		9.10.20.3							
SPRINKLER SYSTEM REQUIRED : <table border="0"> <tr> <td><input type="checkbox"/> ENTIRE BUILDING</td> <td><input type="checkbox"/> BASEMENT ONLY</td> <td><input type="checkbox"/> IN LIEU OF ROOF RATING</td> <td><input checked="" type="checkbox"/> NOT REQUIRED</td> </tr> </table>				<input type="checkbox"/> ENTIRE BUILDING	<input type="checkbox"/> BASEMENT ONLY	<input type="checkbox"/> IN LIEU OF ROOF RATING	<input checked="" type="checkbox"/> NOT 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						
PERMITTED CONSTRUCTION : <table border="0"> <tr> <td><input type="checkbox"/> COMBUSTIBLE</td> <td><input checked="" type="checkbox"/> NON-COMBUSTIBLE</td> <td><input checked="" type="checkbox"/> BOTH</td> </tr> </table>		<input type="checkbox"/> COMBUSTIBLE	<input checked="" type="checkbox"/> NON-COMBUSTIBLE	<input checked="" type="checkbox"/> BOTH	ACTUAL CONSTRUCTION : <table border="0"> <tr> <td><input type="checkbox"/> COMBUSTIBLE</td> <td><input checked="" type="checkbox"/> NON-COMBUSTIBLE</td> <td><input type="checkbox"/> BOTH</td> </tr> </table>		<input type="checkbox"/> COMBUSTIBLE	<input checked="" type="checkbox"/> NON-COMBUSTIBLE	<input type="checkbox"/> BOTH
<input type="checkbox"/> COMBUSTIBLE	<input checked="" type="checkbox"/> NON-COMBUSTIBLE	<input checked="" type="checkbox"/> BOTH							
<input type="checkbox"/> COMBUSTIBLE	<input checked="" type="checkbox"/> NON-COMBUSTIBLE	<input type="checkbox"/> BOTH							
STANDPIPE REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.5.8							
ADEQUATE WATER SUPPLY / SERVICE : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.5.7							
FIRE ALARM REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		9.10.18.2							
FIRE DETECTORS REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		9.10.18.4							
SMOKE DETECTORS REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		9.10.18.4							
EMERGENCY LIGHTING REQUIRED : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		9.9.12.2							
EXIT SIGNAGE REQUIRED : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		9.9.11.3							
BARRIER FREE ACCESS REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (EXPLAIN)		3.8.2.1							
SERVICE SPACE									
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 = 1 TRAVEL DISTANCES = 30 m		9.9.8.2							
REQUIRED FIRE RESISTANCE RATING:									
FLOORS = N/A		MECHANICAL ROOMS = N/A							
BETWEEN SERVICE SPACE AND ADJOINING BUILDING = 1 HR 9.10.10.3		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) WALL = 0.210 (RSI 4.76)		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 DOOR = 1.9 (RSI 0.53)							
		TABLE 3.2.2.3 WINDOW = N/A							

BUILDING CODE ANALYSIS - VENTILATION BUILDING TBU43+516									
PROJECT DESCRIPTION : GOVERNMENT SERVICES AND PUBLIC SERVICES CANADA - TUNNEL REVITALIZATION		APPLICABLE CODE REFERENCE NUMBER							
<input checked="" type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input 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: F3 - LOW HAZARD INDUSTRIAL PART 9 APPLIES		9.10.2.1 1.3.3.3							
BUILDING AREA = NEW 27 m ² NUMBER OF STOREYS ABOVE GRADE = 1 NUMBER OF STOREYS BELOW GRADE = 0 NEW MEZZANINE AREA = NA									
NUMBER OF STREETS / FIREFIGHTER ACCESS : 1		9.10.20.3							
SPRINKLER SYSTEM REQUIRED : <table border="0"> <tr> <td><input type="checkbox"/> ENTIRE BUILDING</td> <td><input type="checkbox"/> BASEMENT ONLY</td> <td><input type="checkbox"/> IN LIEU OF ROOF RATING</td> <td><input checked="" type="checkbox"/> NOT REQUIRED</td> </tr> </table>				<input type="checkbox"/> ENTIRE BUILDING	<input type="checkbox"/> BASEMENT ONLY	<input type="checkbox"/> IN LIEU OF ROOF RATING	<input checked="" type="checkbox"/> NOT 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						
PERMITTED CONSTRUCTION : <table border="0"> <tr> <td><input type="checkbox"/> COMBUSTIBLE</td> <td><input checked="" type="checkbox"/> NON-COMBUSTIBLE</td> <td><input checked="" type="checkbox"/> BOTH</td> </tr> </table>		<input type="checkbox"/> COMBUSTIBLE	<input checked="" type="checkbox"/> NON-COMBUSTIBLE	<input checked="" type="checkbox"/> BOTH	ACTUAL CONSTRUCTION : <table border="0"> <tr> <td><input type="checkbox"/> COMBUSTIBLE</td> <td><input checked="" type="checkbox"/> NON-COMBUSTIBLE</td> <td><input type="checkbox"/> BOTH</td> </tr> </table>		<input type="checkbox"/> COMBUSTIBLE	<input checked="" type="checkbox"/> NON-COMBUSTIBLE	<input type="checkbox"/> BOTH
<input type="checkbox"/> COMBUSTIBLE	<input checked="" type="checkbox"/> NON-COMBUSTIBLE	<input checked="" type="checkbox"/> BOTH							
<input type="checkbox"/> COMBUSTIBLE	<input checked="" type="checkbox"/> NON-COMBUSTIBLE	<input type="checkbox"/> BOTH							
STANDPIPE REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.5.8							
ADEQUATE WATER SUPPLY / SERVICE : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.5.7							
FIRE ALARM REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		9.10.18.2							
FIRE DETECTORS REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		9.10.18.4							
SMOKE DETECTORS REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		9.10.18.4							
EMERGENCY LIGHTING REQUIRED : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		9.9.12.2							
EXIT SIGNAGE REQUIRED : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		9.9.11.3							
BARRIER FREE ACCESS REQUIRED : <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (EXPLAIN)		3.8.2.1							
SERVICE SPACE									
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 = 1 TRAVEL DISTANCES = 30 m		9.9.8.2							
REQUIRED FIRE RESISTANCE RATING:									
FLOORS = N/A		MECHANICAL ROOMS = N/A							
BETWEEN SERVICE SPACE AND ADJOINING BUILDING = 1 HR 9.10.10.3		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) WALL = 0.210 (RSI 4.76)		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 DOOR = 1.9 (RSI 0.53)							
		TABLE 3.2.2.3 WINDOW = N/A							

DOOR, FRAME & HARDWARE SCHEDULE													
NO.	LOCATION	DESCRIPTION	DOORS					FRAMES		HARDWARE GROUP		NOTES	
			SIZE	TYPE	MATL.	FINISH	INSUL.	LABEL	SIZE & MATL.	FINISH	LABEL		
1	NTBU43+000	NEW	2 - 900 x 2150	C	HM	P	YES	-	170 PSF	P	-	1	DOUBLE DOOR
2	NTBU43+000	NEW	1219 x 1524	-	-	-	-	-	-	-	-	9	PREFINISHED HATCH
3	NTBU43+000	NEW	900 x 2150	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	11	-
4	NTBU43+000	NEW	900 x 1800	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	12	-
5	-	-	-	-	-	-	-	-	-	-	-	-	NOT USED
6	NTBU43+049-33	NEW	762 x 2032	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	8	REPLACE EXISTING DOOR AND FRAME
7	NTBU43+100	NEW	1065 x 1065	-	-	-	YES	-	-	-	-	9	PREFINISHED HATCH
8	NTBU43+181	NEW	1065 x 1065	-	-	-	YES	-	-	-	-	9	PREFINISHED HATCH
9	NTBU43+198-47	NEW	750 x 2019	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	12	REPLACE EXISTING DOOR AND FRAME
10	NTBU43+230	NEW	1065 x 1065	-	-	-	YES	-	-	-	-	9	PREFINISHED HATCH
11	TBU43+474-21	NEW	800 x 2050	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	11	REPLACE EXISTING DOOR AND FRAME
12	TBU43+502	NEW	900 x 1250	B	HM	P	YES	45 MIN	170 PSF	P	45 MIN	12	-
13	TBU43+508	NEW	900 x 1250	B	HM	P	YES	45 MIN	170 PSF	P	45 MIN	12	-
14	NTBU43+520	NEW	900 x 2150	A	HM	P	YES	-	170 PSF	P	-	4	-
15	TBU43+552	NEW	600x 1300	B	HM	P	YES	45 MIN	170 PSF	P	45 MIN	11	-
16	TBU43+618-08	NEW	MATCH EXISTING	B	HM	P	YES	45 MIN	-	-	-	12	REPLACE EXISTING DOOR, FRAME TO REMAIN
17	TBU43+628-03	NEW	600 x 1735	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	REPLACE EXISTING DOOR AND FRAME
18	TBU43+692-02	NEW	600 x 880	B	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	-
19	TBU43+751-02	NEW	600 x 1730	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	11	REPLACE EXISTING DOOR AND FRAME
20	TBU43+767	NEW	500 x 1480	B	HM	P	YES	45 MIN	170 PSF	P	45 MIN	11	-
46	NTBU43+198-47	NEW	1524 x 1524	-	-	-	YES	-	-	-	-	9	PREFINISHED HATCH
47	TBU1	NEW	MATCH EXISTING	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	REPLACE EXISTING DOOR AND FRAME
48	TBU52	NEW	MATCH EXISTING	C	HM	P	YES	45 MIN	170 PSF	P	45 MIN	2	REPLACE EXISTING DOOR AND FRAME
49	TBU52	NEW	MATCH EXISTING	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	5	REPLACE EXISTING DOOR AND FRAME
50	TBU22	NEW	MATCH EXISTING	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	REPLACE EXISTING DOOR AND FRAME
51	TBU22	NEW	MATCH EXISTING	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	REPLACE EXISTING DOOR AND FRAME
52	TBU30	NEW	MATCH EXISTING	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	REPLACE EXISTING DOOR AND FRAME

INTERIOR FINISH SCHEDULE				
TUNNEL / BUILDING NAME	FLOOR	BASE	WALLS	CEILING
NTBU43	EPOXY	COVERED	PAINT	PAINT
NTBU43+000 MAIN FLOOR	EPOXY	COVERED	PAINT	PAINT
NTBU43+000 BASEMENT	EPOXY	COVERED	PAINT	PAINT
TBU43+692	EPOXY	COVERED	PAINT	PAINT



Last saved by: MARK.DIEGO(2019-10-04) Last Plotted: 2019-10-04
 Filename: P:\6577665900-CAD_CIS\910-CAD\20-SHEETS\DESIGN\01-TENDER PACKAGE 1\A1.03-TBU43 ARCHITECTURAL FS - PLANS & ELEVATIONS.DWG

E	Issued For Tender	19/09/30
D	Issued For 99% Review	19/06/21
C	Issued For 85% Review	19/03/15
B	Issued 50% For Review	18/11/13
A	Issued For Review	18/09/07
Revision Description Date		
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 Plans & Elevations		
Project no.	Drawing no.	Revision no.
1004259	A1.03	E