

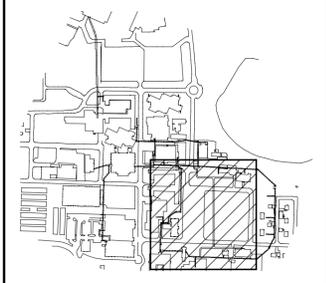
# TENDER

## NOT FOR CONSTRUCTION



ASSOCIATION OF PROFESSIONAL ENGINEERS & GEOSCIENTISTS OF SASKATCHEWAN  
**CERTIFICATE OF AUTHORIZATION**  
AECOM Canada Ltd.  
NUMBER C1667  
PERMISSION TO CONSULT HELD BY:  
DISCIPLINE: SASK. REG. No. SIGNATURE: [Signature]

Key Plan



Revision	Description	Date
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 For 50% Review	18/11/13
A	Not Issued	-

Client

**Public Works and Government Services Canada**

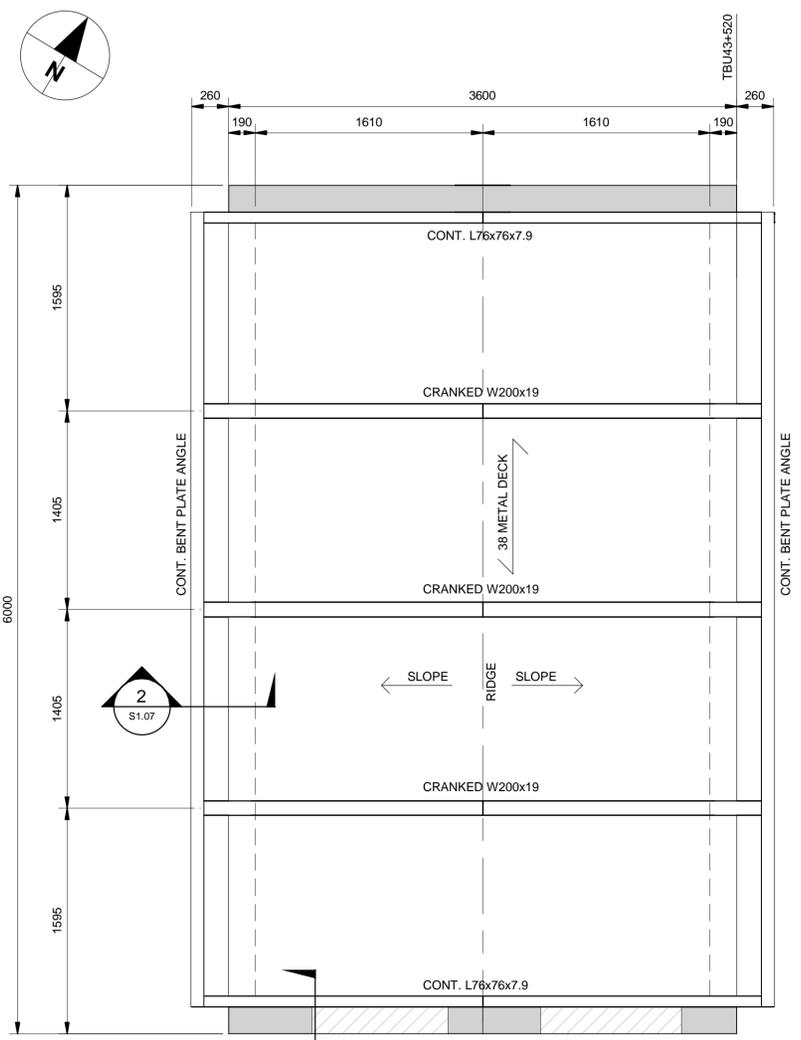
Project Title

**Tunnel Revitalization**

Designed by: C. Klemmer  
Drawn by: O. Muaz  
Approved by: B. Wolfater  
PWGSC Project Manager: J. Dayman  
Drawing Title

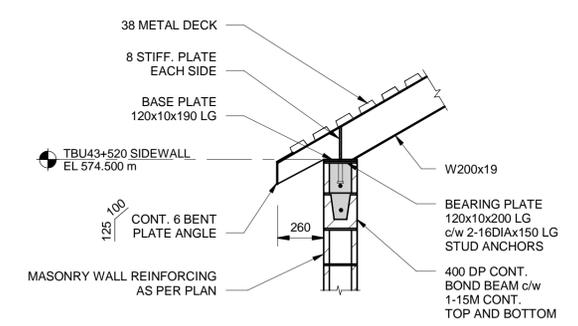
Package 1-TBU 43 - Building Structural Plan, Details And Standard Details

Project no.	Drawing no.	Revision no.
1004259	S1.07	E

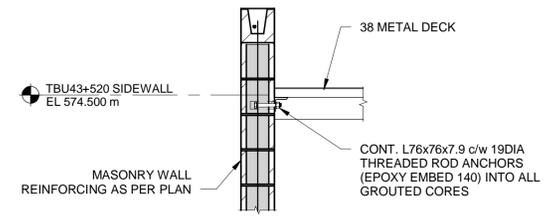


**1 MAKE-UP AIR AT TBU43+520 - ROOF PLAN**  
Scale: 1 : 25

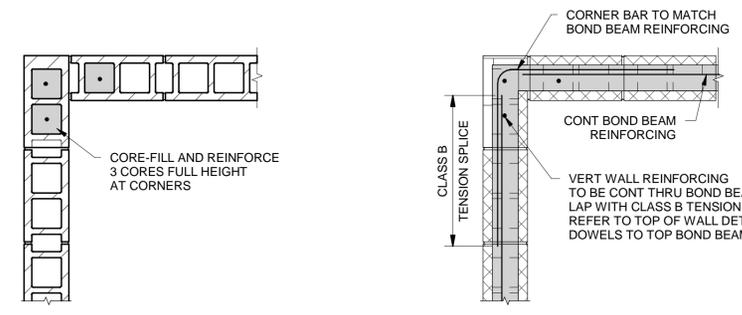
- NOTES:**
- REFER TO DRAWING S1.00 FOR STRUCTURAL NOTES
  - REFER TO ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATIONS OF DOORS
  - REFER TO MECHANICAL DRAWINGS FOR SIZES AND LOCATIONS OF LOUVERS
  - MASONRY WALL REINFORCING**
    - CORE-FILL AND REINFORCE WITH 1-15M VERTICAL FULL HEIGHT AT MAX 1000cc UNLESS NOTED OTHERWISE
    - INSTALL HORIZONTAL JOINT REINFORCING AT 400cc LAP REINFORCING MINIMUM 2 CROSSWIRE LOCATIONS
    - REFER TO TYPICAL DETAILS ON THIS DRAWING FOR REINFORCING REQUIREMENTS AT WALL INTERSECTIONS AND CONTROL JOINTS
    - VERTICAL REINFORCING TO BE PROVIDED ABOVE AND BELOW OPENINGS.
    - ALL VERTICAL REINFORCING TO BE CONTINUOUS LAP WITH CLASS B TENSION WHERE REQUIRED
    - MASONRY WALL REINFORCING SHALL BE INSPECTED BY ENGINEER PRIOR TO GROUTING
  - /// DENOTES MASONRY LINTEL. REFER TO SCHEDULE ON THIS DRAWING
  - PROVIDE MASONRY CONTROL JOINTS ON ONE SIDE OF ALL OPENINGS LESS THAN 2.0m IN WIDTH, AND BOTH SIDES OF OPENING LARGER THAN 2.0m IN WIDTH



**2 DETAIL**  
S1.05 Scale: 1 : 20



**3 DETAIL**  
S1.05 Scale: 1 : 20

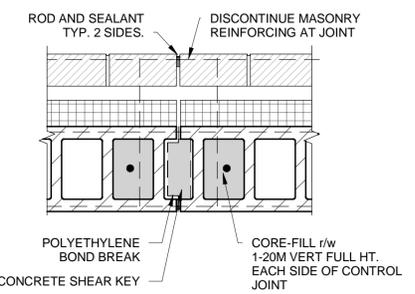


**VERTICAL REINFORCING**

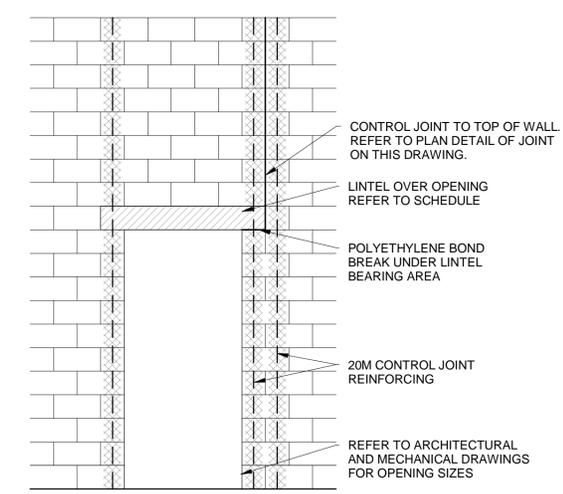
**HORIZONTAL REINFORCING**

### TYPICAL MASONRY WALL INTERSECTION

### TOP OF MASONRY WALL REINFORCING DETAIL



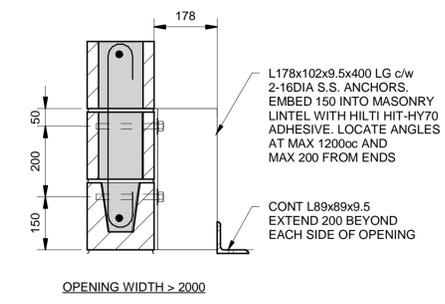
**MASONRY WALL CONTROL JOINT**



**MASONRY CONTROL JOINT AT OPENINGS**

**LOOSE ANGLE LINTEL SCHEDULE**

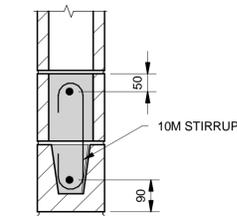
OPENING WIDTH	ANGLE SIZE
0 - 1200	L89x89x9.5
1200 - 1600	L127x89x9.5 (LLV)
1600 - 2000	L152x89x9.5 (LLV)
> 2000	REFER TO DETAIL



- NOTES:**
- LOCATE OVER ALL DOORS, WINDOWS, AND MECHANICAL OPENINGS
  - FOR LINTELS OVER WINDOWS INCREASE HORIZONTAL LEG TO 127
  - ANGLE TO SEAT MINIMUM 200 BEYOND EACH SIDE OF OPENING
  - ALL MATERIAL TO BE HOT-DIPPED GALVANIZED

**190 WALL MASONRY LINTEL SCHEDULE**

OPENING WIDTH	LINTEL SIZE		REINFORCING	
	WIDTH	HEIGHT	TOP	BOTTOM
0 - 800	190	200	-	1-15M
800 - 2000	190	400	1-15M	1-20M
2000 - 3000	190	600	1-15M	1-20M



- LINTEL TO BEAR MINIMUM 200 BEYOND EACH SIDE OF OPENING
- WHERE REINFORCING IS REQUIRED TOP AND BOTTOM, PROVIDE 10M STIRRUPS AT 200cc FOR FULL LENGTH OF LINTEL