



TABLE OF CONTENTS:

- A1.1 - SITE PLAN & SCOPE OF WORK
- A1.2 - ADDITIONAL SITE PLAN
- A1.3 - WEST ENTRANCE WALKWAY FLOOR PLAN
- A1.4 - WEST ENTRANCE WALKWAY DETAILS
- A2 - INTERIOR FLOOR PLANS
- A3 - EXTERIOR ELEVATIONS (NORTH)
- A4 - EXTERIOR PLAN VIEW (EXPOSED WALKWAY ABOVE TUNNEL)
- A5.1 - SECTION DETAIL
- A5.2 - SECTION DETAIL
- A6 - INTERIOR FLOOR EXPANSION JOINT DETAIL
- A7 - WINDOW DETAIL
- A8.1 - EXPANSION JOINT WALL AND CEILING (EXTERIOR) DETAILS
- A8.2 - EXPANSION JOINT WALL AND CEILING (EXTERIOR) DETAILS
- A9 - BRICK REPOINTING DETAILS

1
A0

TABLE OF CONTENTS

N.T.S.

c

LEGEND

Canada

Public Services and Procurement Canada / Services publics et Approvisionnement Canada

Real Property Branch / Direction générale des biens immobiliers

IRC BUILDING SCIENCES GROUP
 MANITOBA • LONDON • MISSISSAUGA • OTTAWA • QUEBEC
 TOLL FREE: 1-888-637-5245 TEL: 613-225-8653
 WWW.IRCGROUP.COM FAX: 613-225-7331



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/06/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	99% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project	projet
TUNNEL EXPANSION JOINT REPLACEMENT	
R.065220.541	

drawing	dessin
TABLE OF CONTENTS	

Designed By	S.V.	Conçu par
Date	2021/10/21	(yyyy/mm/dd)
Drawn By	R.V.	Dessiné par
Date	2021/10/21	(yyyy/mm/dd)
Reviewed By	S.V.	Examiné par
Date	2021/10/21	(yyyy/mm/dd)
Approved By	S.V.	Approuvé par
Date	2021/10/21	(yyyy/mm/dd)
Tender	Soumission	

Project Manager	Administrateur de projets
Project no.	No. du projet
R.065220.541	
Drawing no.	No. du dessin
A0	

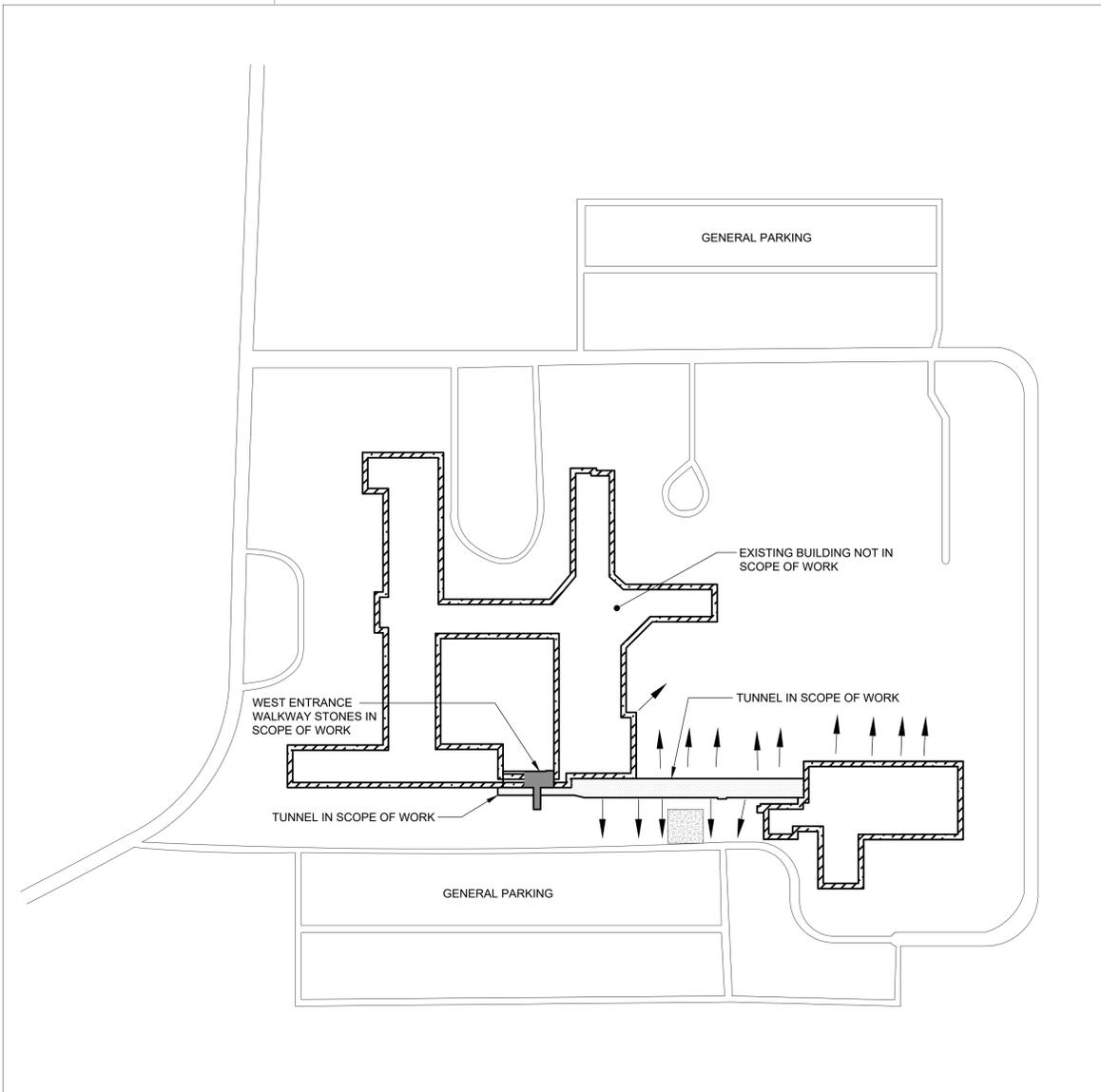
SCOPE OF WORK

INTERIOR

1. REPLACE INTERIOR EXPANSION JOINT WITHIN THE TUNNEL SERVICE AT AREAS NOTED BELOW.
 - A) FLOOR.
2. REMOVE SEALANT APPLIED AT JOINTS (WALLS AND CEILING), AS WELL AS RESIDUES. CLEAN SURFACES AND PREPARE FOR NEW BACKER ROD AND SEALANT APPLICATION.

EXTERIOR

1. REPLACE ALL CEILING AND WALL EXPANSION JOINTS FROM EXTERIOR OF THE SERVICE TUNNEL.
 - EXCAVATE FROM EXTERIOR OF TUNNEL ON ALL SIDES TO EXPOSE EXISTING EXPANSION JOINTS.
 - SEE DRAWINGS TO LOCATE EXPANSION JOINTS.
 - CONTRACTOR TO PERFORM ALL LOCATES (PRIVATE AND PUBLIC)
2. REHABILITATE EXISTING CONCRETE STONES AT THE WEST ENTRANCE WALKWAY.
 - REMOVE EXISTING CONCRETE STONES AT THE WEST ENTRANCE WALKWAY, INCLUDING UNDERLYING AGGREGATES TO EXPOSE THE TUNNEL'S CONCRETE SLAB (ADJACENT TO EXPANSION JOINT #4 - DETAIL T3-T3 ON DRAWING A5.2).
 - CONTRACTOR IS TO PREPARE EXPOSED CONCRETE SURFACE FOR THE INSTALLATION OF NEW WATERPROOFING ON THE ENTIRE HORIZONTAL SURFACE.
 - THE WATERPROOFING OF THE VERTICAL EXPANSION JOINT (#4) WILL BE PERFORMED FROM THE INTERIOR OF THE TUNNEL.
 - INSTALL NEW DRAINAGE PANEL.
 - RE-INSTATE NEW CRUSH STONE TO ACCOMMODATE FOR PROPER SLOPING AND FOR THE NEW CONCRETE WALKWAY STONES (TO MATCH EXISTING).
 - THE NEW CONCRETE WALKWAY STONES ARE TO BE PREFABRICATED AND INSTALLED ON SITE.
 - THE CONCRETE WALKWAY LEADING TO THE WEST ENTRANCE WALKWAY ARE TO HAVE TARGETED FILLING OF DAMAGED JOINTS WITH CONCRETE.
 - THE METAL FLASHING OF THE COLUMNS WITHIN THE AREA OF THE NEW WEST ENTRANCE WALKWAY IS TO BE REPLACED AS PER EXISTING.
 - TARGETED BRICK CLEANING IS TO BE PERFORMED AT THE BOTTOM CORNERS OF THE DOUBLE DOOR AT THE WEST ENTRANCE.
3. RE-GRADE SURFACE LANDSCAPE 2% AWAY FROM BUILDING AT FOLLOWING LOCATIONS;
 - NORTH OF TUNNEL;
 - SOUTH OF TUNNEL (ADJACENT TO EXPOSED WALKWAY).
4. REPLACE EXTERIOR EXPANSION JOINT AT BRICK MASONRY LOCATED AT NORTH ELEVATION OF TUNNEL, FOR EXPOSED SURFACE.
5. REPLACEMENT OF EXTERIOR EXPANSION JOINTS ON THE WALKWAY ABOVE THE TUNNEL, BETWEEN GRIDS 7 AND 10. THE EDGE OF THE EXPANSION JOINTS SHALL BE PERFORMED PRIOR TO RE-GRADING THE SOUTH LANDSCAPE.
6. REPLACEMENT OF SEALANTS FOR ALL JOINTS (WALKWAY, RAILING, RAILING CONCRETE BASE, AND OTHERS ADJACENT) WITH NEW SEALANT.



SCOPE OF WORK

WINDOWS

1. REMOVE INTERIOR AND EXTERIOR SEALANTS.
2. INSTALL NEW SPRAY FOAM INSULATION AROUND CONTOURS.
3. INSTALL NEW BACKER ROD AT INTERIOR AND EXTERIOR.
4. APPLICATION OF NEW SEALANT AT INTERIOR AND EXTERIOR.
5. REMOVE INTERIOR PAINT AND PARGING SURFACE ALONG NORTH ELEVATION (WITH THE WINDOW) UNTIL APPROXIMATELY 152mm AWAY FROM WINDOW EDGES, AS INDICATED IN DETAIL 1/A2. PAINT CONTAINS LEAD AND MUST BE ABATED AS PER SPECIFICATIONS.

LEGEND

← DIRECTION OF GRADE
2% GRADE AWAY FROM BUILDING



NORTH



PROJECT NORTH

Canada
Public Services and Procurement Canada / Services publics et Approvisionnement Canada
Real Property Branch / Direction générale des biens immobiliers
IRC BUILDING SCIENCES GROUP
VANCOUVER • LONDON • MISSISSAUGA • OTTAWA • QUEBEC
TOLL FREE: 1-888-607-5245 TEL: 613.225.0933
WWW.IRCGROUP.COM FAX: 613.225.7331



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2012
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

A C	A detail no. no. du détail	A B C
	B location drawing no. sur dessin no.	
	C drawing no. dessin no.	

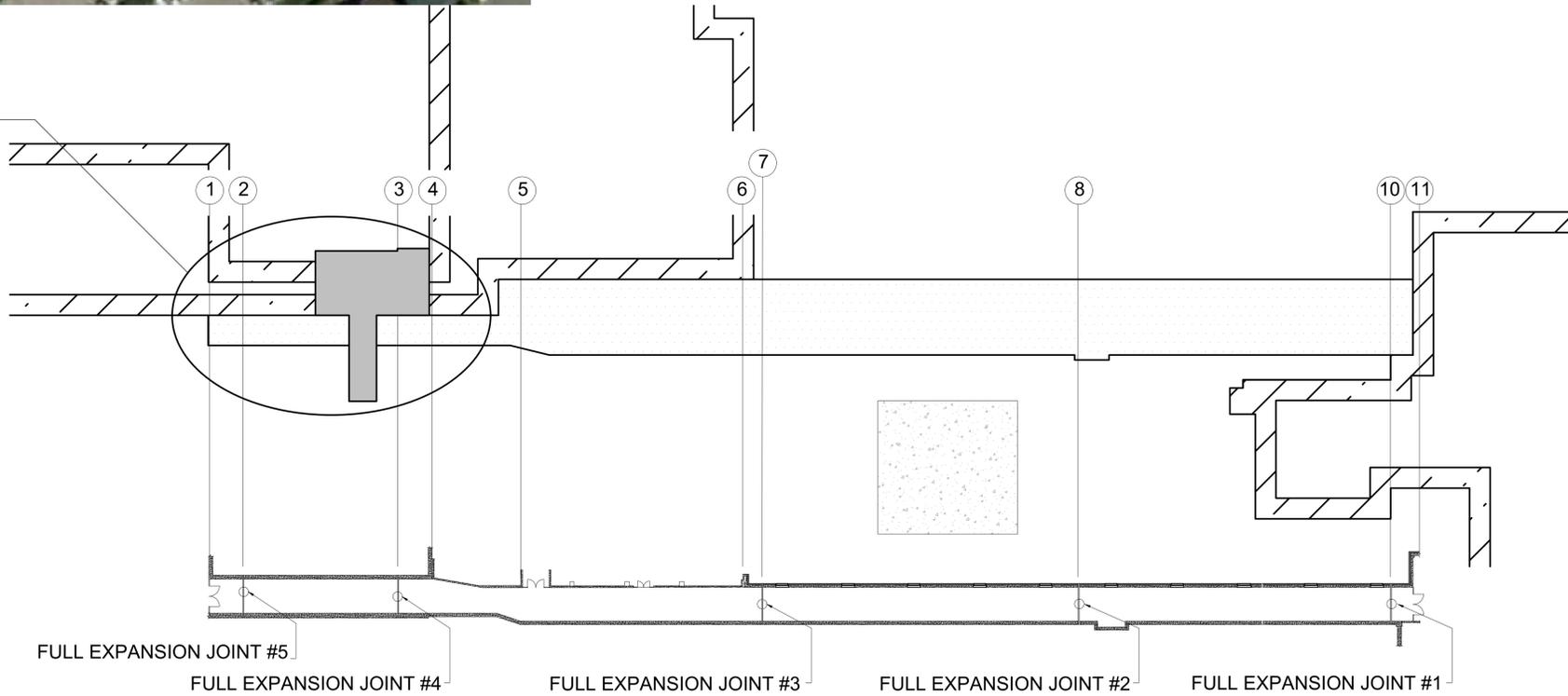
project	projet
TUNNEL EXPANSION JOINT REPLACEMENT	
R.065220.541	

drawing	dessin
SITE PLAN & SCOPE OF WORK	

Designed By	S.V.	Conçu par
Date	2021/10/21	(yyyy/mm/dd)
Drawn By	R.V.	Dessiné par
Date	2021/10/21	(yyyy/mm/dd)
Reviewed By	S.V.	Examiné par
Date	2021/10/21	(yyyy/mm/dd)
Approved By	S.V.	Approuvé par
Date	2021/10/21	(yyyy/mm/dd)
Tender		Soumission
Project Manager		Administrateur de projets
Project no.		No. du projet
		R.065220.541
Drawing no.		No. du dessin
		A1.1



FOR ENLARGED PLAN AND DETAILS REFER TO DWG# A1.3 & A1.4



- NOTE:
1. DISTANCE BETWEEN EACH EXPANSION JOINT ARE INDICATED IN DRAWING A2.
 2. EXPANSION JOINT #4 AND #5 ARE LOCATED UNDERNEATH LANDSCAPE. CONTRACTOR TO PERFORM LOCATES AND PERFORM EXCAVATION TO ADEQUATELY EXPOSE EXPANSION JOINTS FOR MANDATED REPLACEMENT.
 3. SOUTH PORTION OF EXPANSION JOINTS #1, #2, AND #3 ARE UNDERNEATH LANDSCAPE AND IS TO BE EXCAVATED TO PERFORM MANDATED REPLACEMENT.
 4. EXPANSION JOINTS #1, #2 AND #3 ARE PARTIALLY COVERED BY LANDSCAPE ON THE NORTH PORTION. CONTRACTOR TO EXCAVATE IN ORDER TO PERFORM MANDATED REPLACEMENT.

1 SITE PLAN
A1.2 N.T.S.

LEGEND
DIRECTION OF GRADE
2% GRADE AWAY FROM BUILDING



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

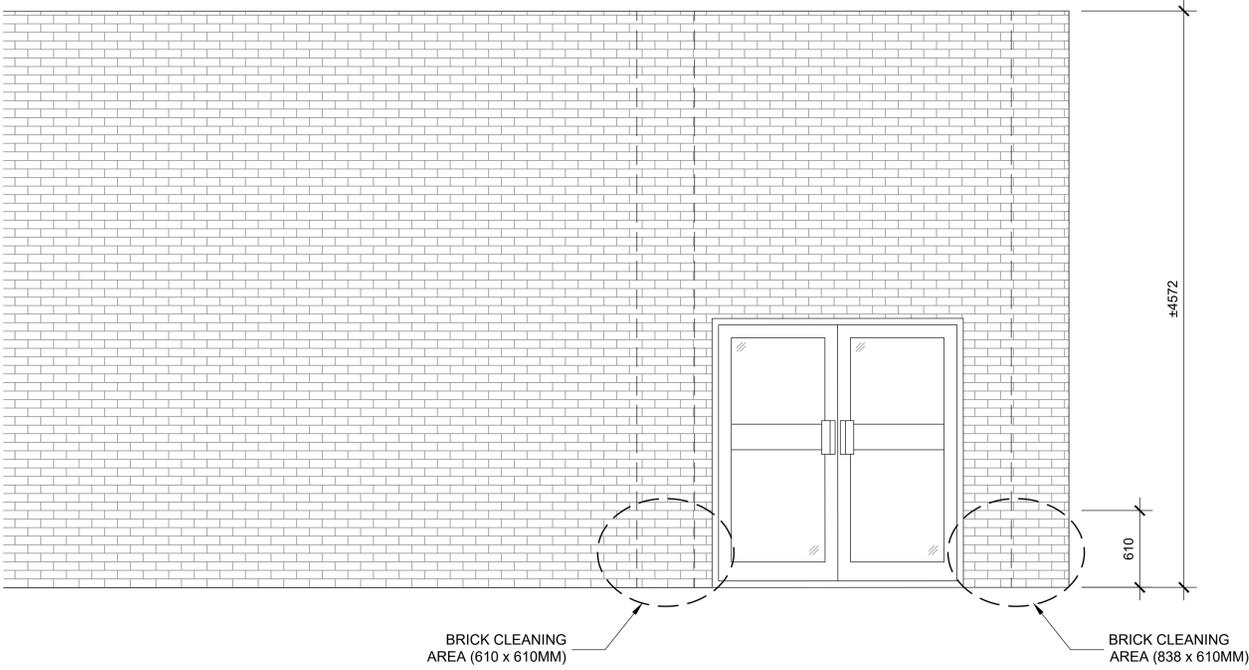
A	A detail no. / no. du détail	A
C	B location drawing no. / sur dessin no.	B
	C drawing no. / dessin no.	C

project / projet
TUNNEL EXPANSION JOINT REPLACEMENT
R.065220.541

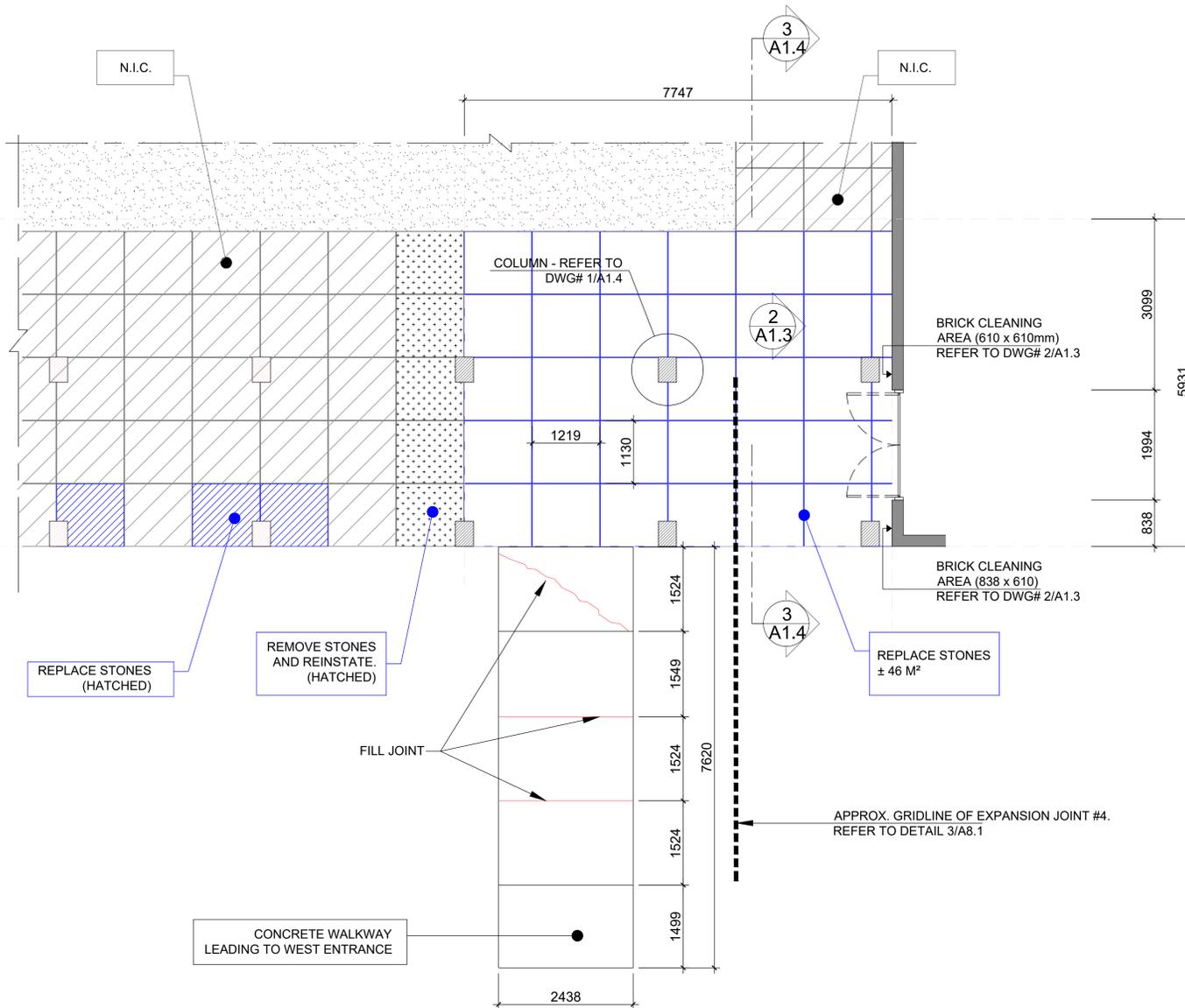
drawing / dessin
ADDITIONAL SITE PLAN

Designed By	S.V.	Conçu par	
Date	2021/10/21	(yyyy/mm/dd)	
Drawn By	R.V.	Dessiné par	
Date	2021/10/21	(yyyy/mm/dd)	
Reviewed By	S.V.	Examiné par	
Date	2021/10/21	(yyyy/mm/dd)	
Approved By	S.V.	Approuvé par	
Date	2021/10/21	(yyyy/mm/dd)	
Tender		Soumission	
Project Manager		Administrateur de projets	
Project no.		No. du projet	
			R.065220.541
Drawing no.		No. du dessin	
			A1.2





2
A1.3 ELEVATION - BRICK WALL (PARTIAL)
N.T.S.



1
A1.3 PLAN - WEST ENTRANCE WALKWAY
N.T.S.



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/06/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	99% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

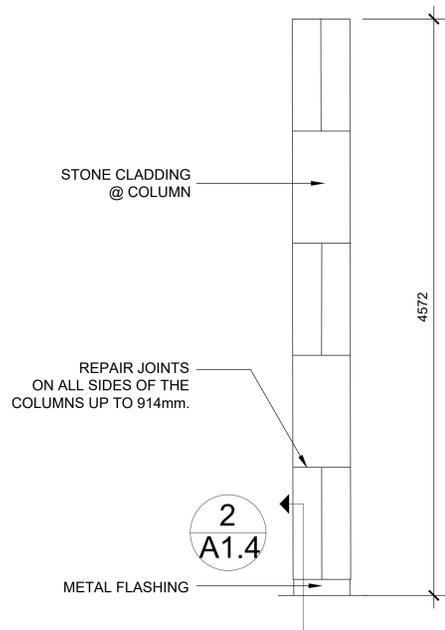
A	A
C	B
A detail no. / no. du détail	A location drawing no. / sur dessin no.
C drawing no. / dessin no.	B C

project / projet
TUNNEL EXPANSION JOINT REPLACEMENT
R.065220.541

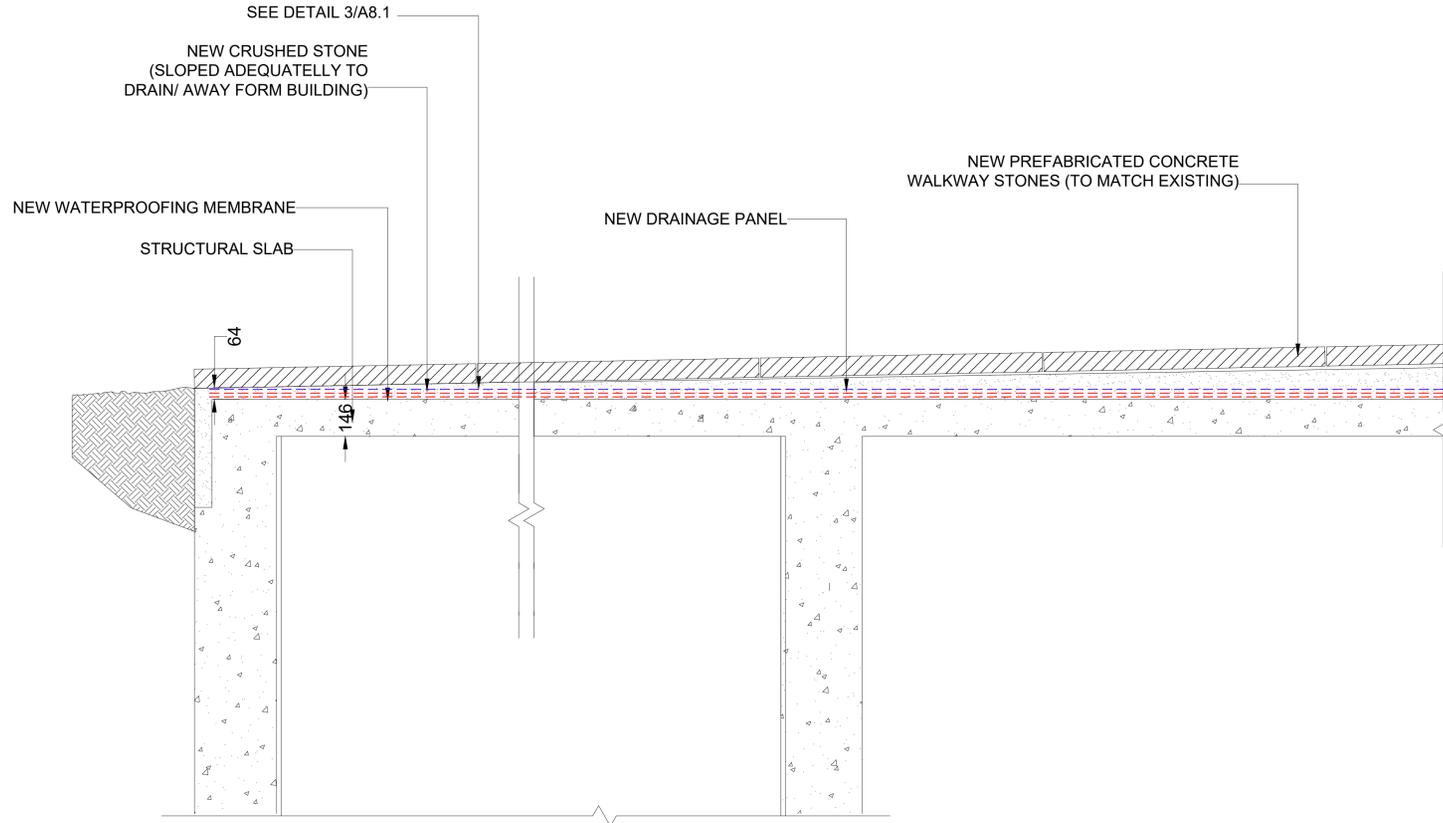
drawing / dessin
WEST ENTRANCE WALKWAY PLAN AND (PARTIAL) ELEVATION

Designed By / Conçu par	S.V.
Date	2021/10/21 (yyyy/mm/dd)
Drawn By / Dessiné par	R.V.
Date	2021/10/21 (yyyy/mm/dd)
Reviewed By / Examiné par	S.V.
Date	2021/10/21 (yyyy/mm/dd)
Approved By / Approuvé par	S.V.
Date	2021/10/21 (yyyy/mm/dd)
Tender / Soumission	

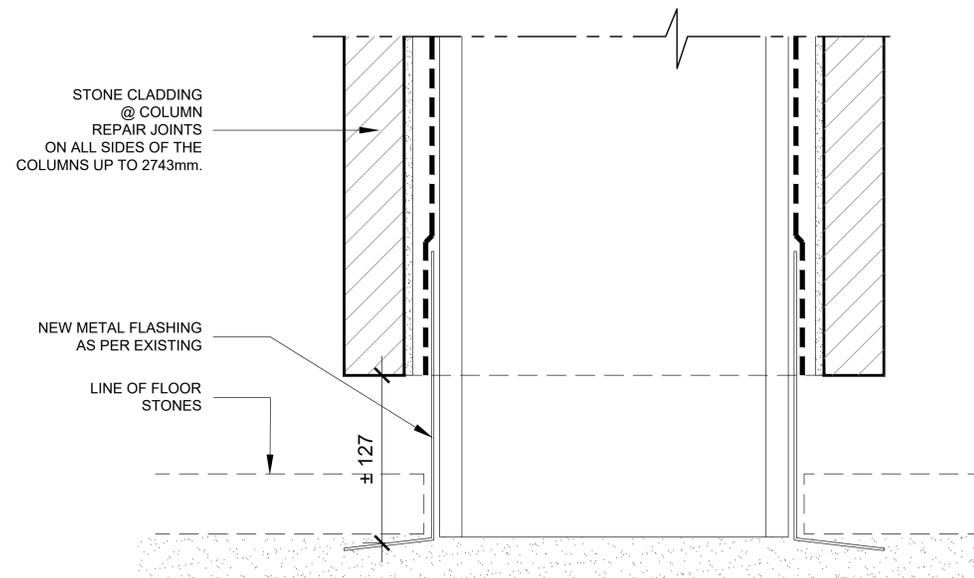
Project Manager / Administrateur de projets
Project no. / No. du projet
R.065220.541
Drawing no. / No. du dessin
A1.3



1
A1.4 ELEVATION - COLUMN
N.T.S.



3
A1.4 SECTION DETAIL
N.T.S.



2
A1.4 SECTION DETAIL - BASE COLUMN
N.T.S.



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

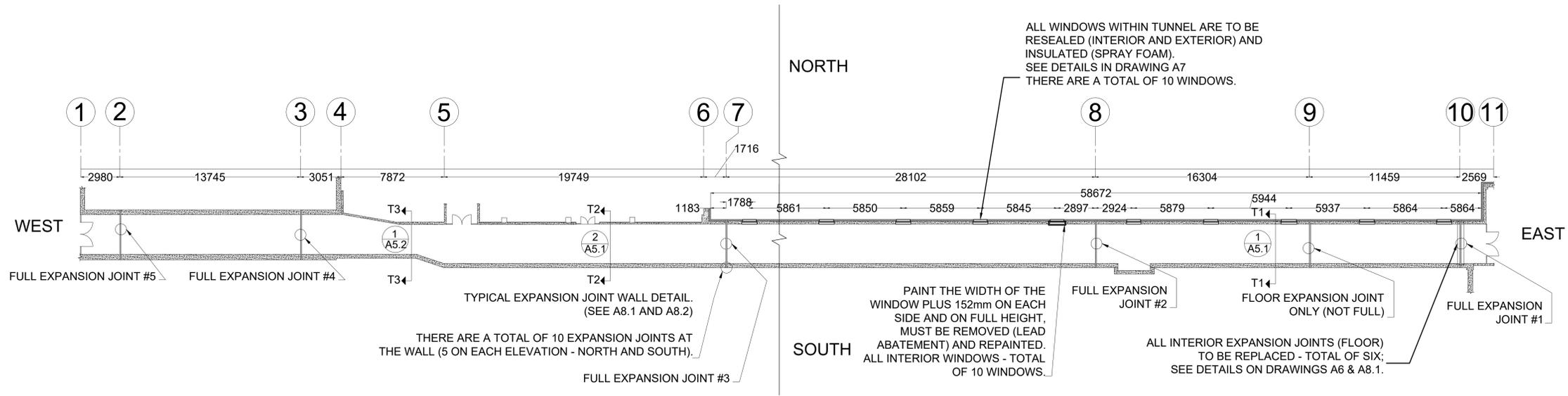
A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	

project / projet
TUNNEL EXPANSION JOINT REPLACEMENT
 R.065220.541

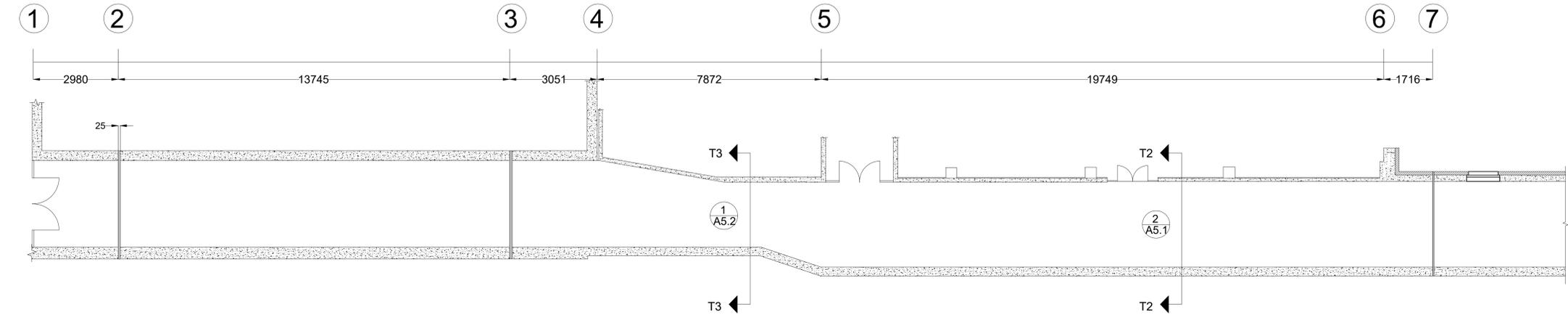
drawing / dessin
WEST ENTRANCE WALKWAY COLUMN ELEVATION AND SECTION DETAIL

Designed By	S.V.	Conçu par
Date	2021/10/21	(yyyy/mm/dd)
Drawn By	R.V.	Dessiné par
Date	2021/10/21	(yyyy/mm/dd)
Reviewed By	S.V.	Examiné par
Date	2021/10/21	(yyyy/mm/dd)
Approved By	S.V.	Approuvé par
Date	2021/10/21	(yyyy/mm/dd)
Tender		Soumission

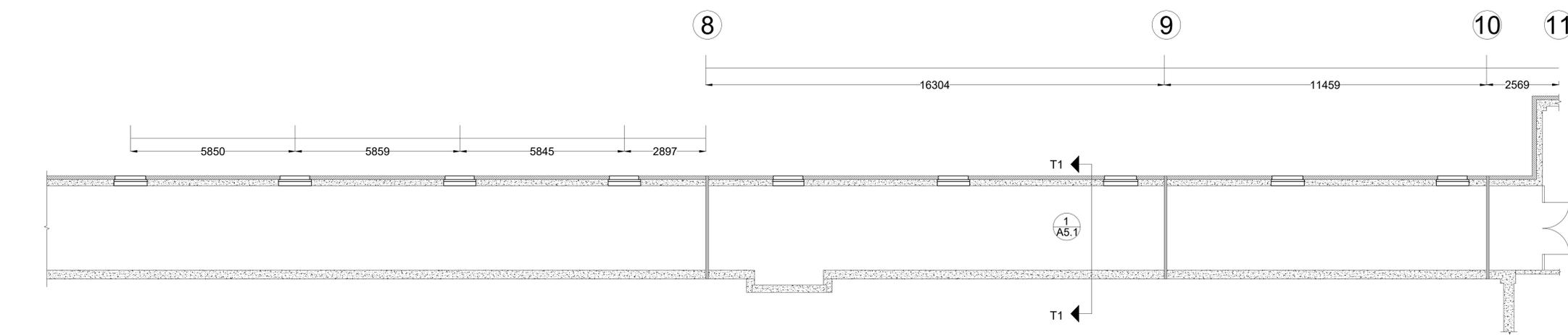
Project Manager / Administrateur de projets
 Project no. / No. du projet
R.065220.541
 Drawing no. / No. du dessin
A1.4



1 TUNNEL GENERAL FLOOR PLAN
A2 N.T.S.



2 TUNNEL FLOOR PLAN (WEST SIDE) - CLOSE-UP VIEW
A2 N.T.S.



3 TUNNEL FLOOR PLAN (EAST SIDE) - CLOSE-UP VIEW
A2 N.T.S.

LEGEND

EXPANSION JOINT

WINDOW

DOOR

Canada
Public Services and Procurement Canada / Services publics et Approvisionnement Canada
Real Property Branch / Direction générale des biens immobiliers
IRC BUILDING SCIENCES GROUP
VANCOUVER • LONDON • MISSISSAUGA • OTTAWA • QUEBEC
TOLL FREE: 1-888-607-5245 TEL: 613.225.0933
WWW.IRCGROUP.COM FAX: 613.225.7331



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

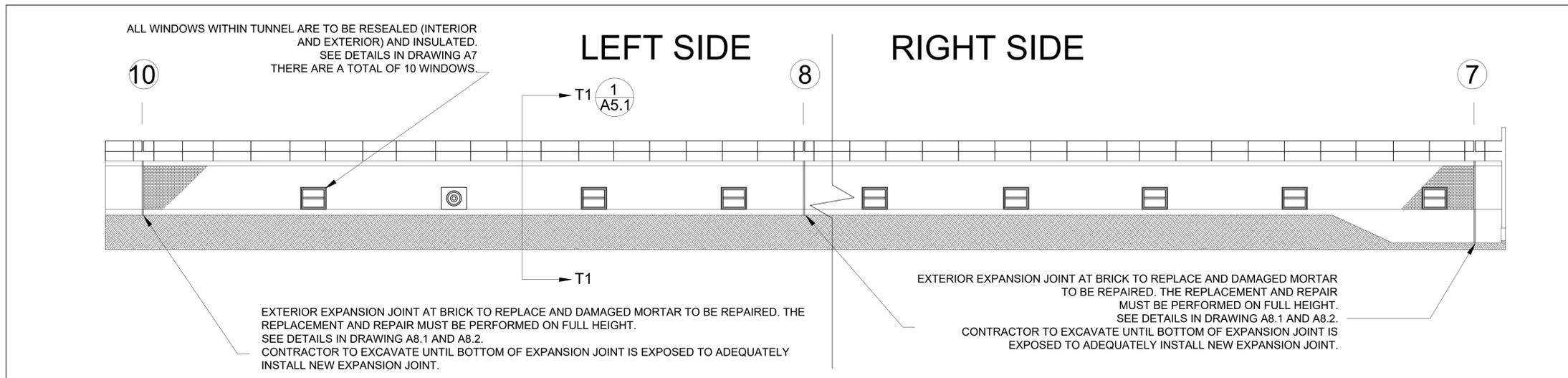
A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project / projet
TUNNEL EXPANSION JOINT REPLACEMENT
R.065220.541

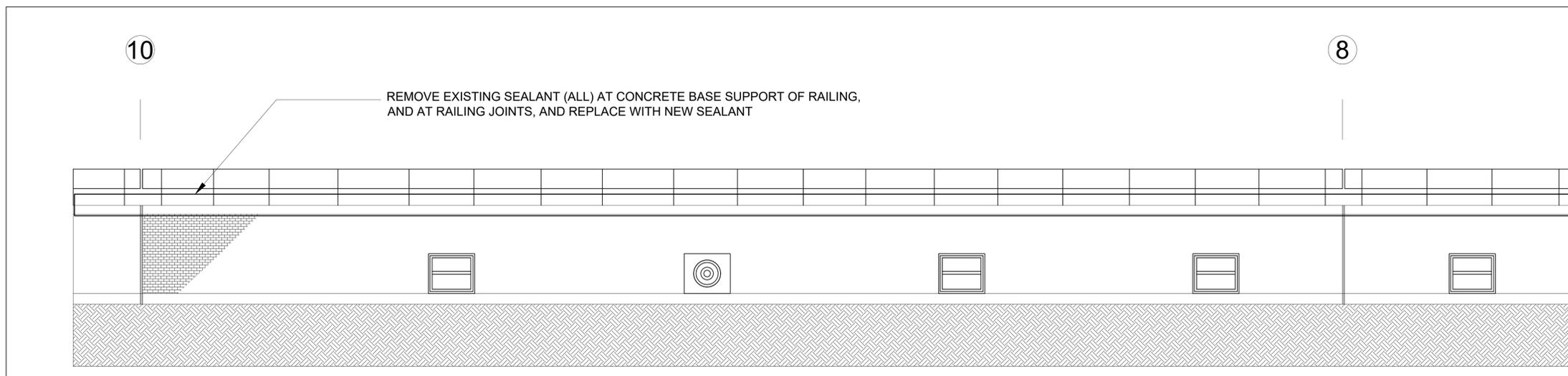
drawing / dessin
INTERIOR FLOOR PLANS

Designed By	S.V.	Conçu par	
Date	2021/10/21	(yyyy/mm/dd)	
Drawn By	R.V.	Dessiné par	
Date	2021/10/21	(yyyy/mm/dd)	
Reviewed By	S.V.	Examiné par	
Date	2021/10/21	(yyyy/mm/dd)	
Approved By	S.V.	Approuvé par	
Date	2021/10/21	(yyyy/mm/dd)	
Tender		Soumission	

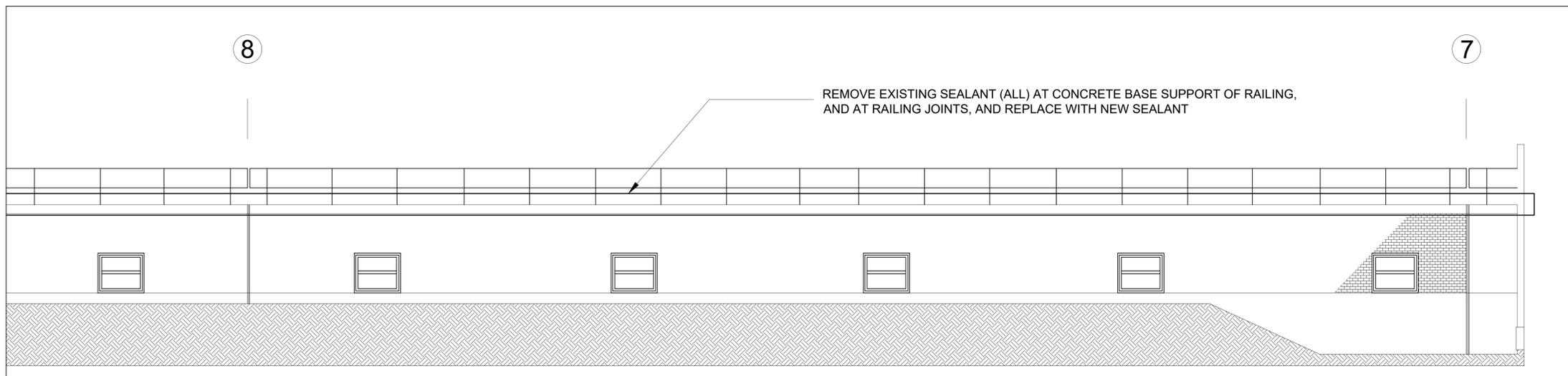
Project Manager / Administrateur de projets
Project no. / No. du projet
R.065220.541
Drawing no. / No. du dessin
A2



1
A3 **EXISTING TUNNEL ELEVATION**
N.T.S.



2
A3 **EXISTING TUNNEL ELEVATION (LEFT SIDE) - CLOSE-UP VIEW**
N.T.S.



3
A3 **EXISTING TUNNEL ELEVATION (RIGHT SIDE) - CLOSE-UP VIEW**
N.T.S.

LEGEND

- EXPANSION JOINT
- WINDOW
- DOOR

Canada
Public Services and Procurement Canada / Services publics et Approvisionnement Canada
Real Property Branch / Direction générale des biens immobiliers

IRC BUILDING SCIENCES GROUP
VANCOUVER • LONDON • MISSISSAUGA • OTTAWA • QUEBEC
TOLL FREE: 1-888-607-5245 TEL: 613.225.0933
WWW.IRCGROUP.COM FAX: 613.225.7331

NOTE:
1. ELEVATIONS IN DRAWING A3 SHOW THE EXTERIOR NORTH ELEVATION THAT IS EXPOSED.
2. BRICK MASONRY ON EXTERIOR OF NORTH ELEVATION.



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

A	A detail no. / no. du détail	A
C	B location drawing no. / sur dessin no.	B
	C drawing no. / dessin no.	C

project / projet
TUNNEL EXPANSION JOINT REPLACEMENT
R.065220.541

drawing / dessin
EXTERIOR ELEVATIONS (NORTH)

Designed By	S.V.	Conçu par	
Date	2021/10/21	(yyyy/mm/dd)	
Drawn By	R.V.	Dessiné par	
Date	2021/10/21	(yyyy/mm/dd)	
Reviewed By	S.V.	Examiné par	
Date	2021/10/21	(yyyy/mm/dd)	
Approved By	S.V.	Approuvé par	
Date	2021/10/21	(yyyy/mm/dd)	
Tender		Soumission	
Project Manager		Administrateur de projets	
Project no.		No. du projet	
			R.065220.541
Drawing no.		No. du dessin	A3

NOTE:
 1. ELEVATIONS IN DRAWING A3 SHOW THE EXTERIOR NORTH ELEVATION THAT IS EXPOSED.
 2. BRICK MASONRY ON EXTERIOR OF NORTH ELEVATION.



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

A	A
C	B C

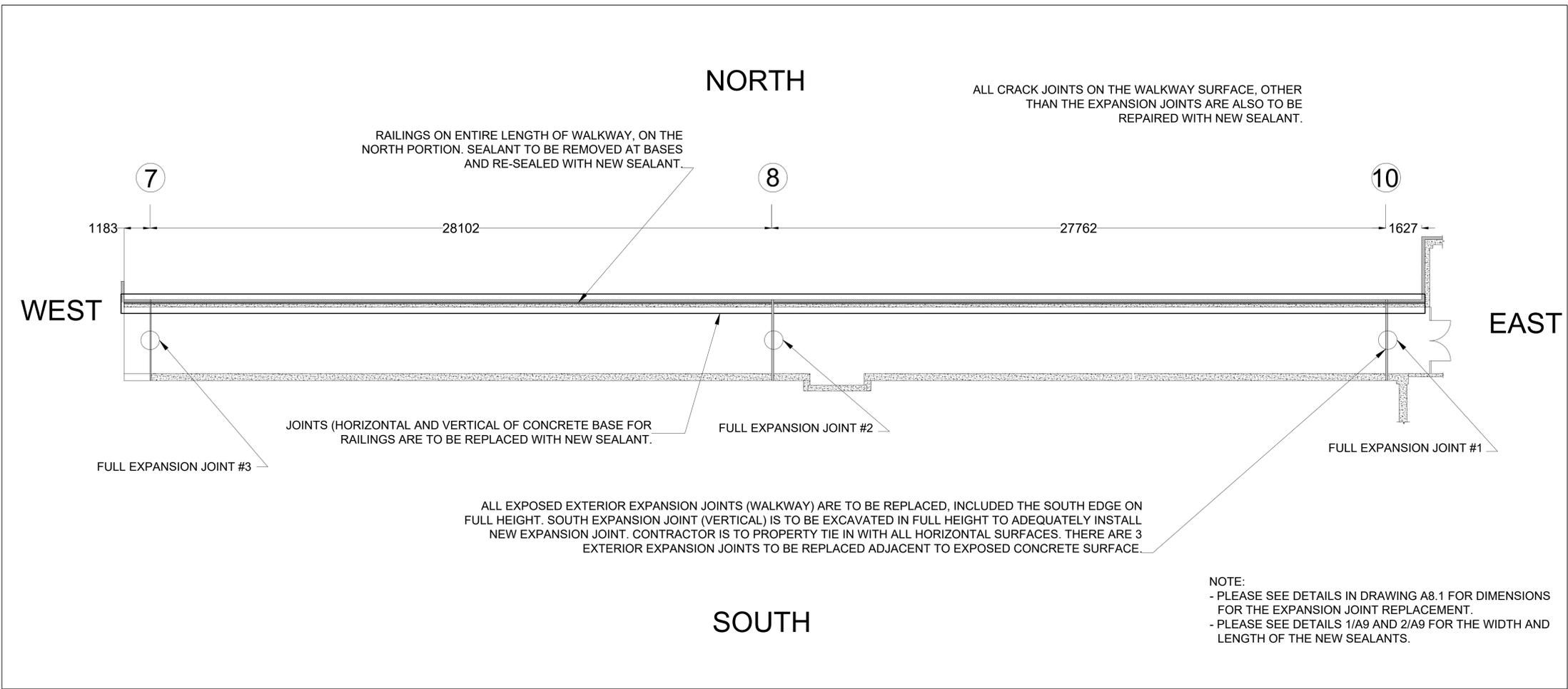
project projet
TUNNEL EXPANSION JOINT REPLACEMENT
 R.065220.541

drawing dessin
EXTERIOR PLAN VIEW (EXPOSED WALKWAY ABOVE TUNNEL)

Designed By	S.V.	Conçu par
Date	2021/10/21	(yyyy/mm/dd)
Drawn By	R.V.	Dessiné par
Date	2021/10/21	(yyyy/mm/dd)
Reviewed By	S.V.	Examiné par
Date	2021/10/21	(yyyy/mm/dd)
Approved By	S.V.	Approuvé par
Date	2021/10/21	(yyyy/mm/dd)
Tender		Soumission
Project Manager		Administrateur de projets
Project no.		No. du projet
		R.065220.541
Drawing no.		No. du dessin
		A4

LEGEND

- EXPANSION JOINT
- WINDOW
- DOOR



1
A4
EXPOSED CONCRETE WALKWAY ABOVE TUNNEL
 N.T.S.

NOTE:
 - PLEASE SEE DETAILS IN DRAWING A8.1 FOR DIMENSIONS FOR THE EXPANSION JOINT REPLACEMENT.
 - PLEASE SEE DETAILS 1/A9 AND 2/A9 FOR THE WIDTH AND LENGTH OF THE NEW SEALANTS.

LEGEND

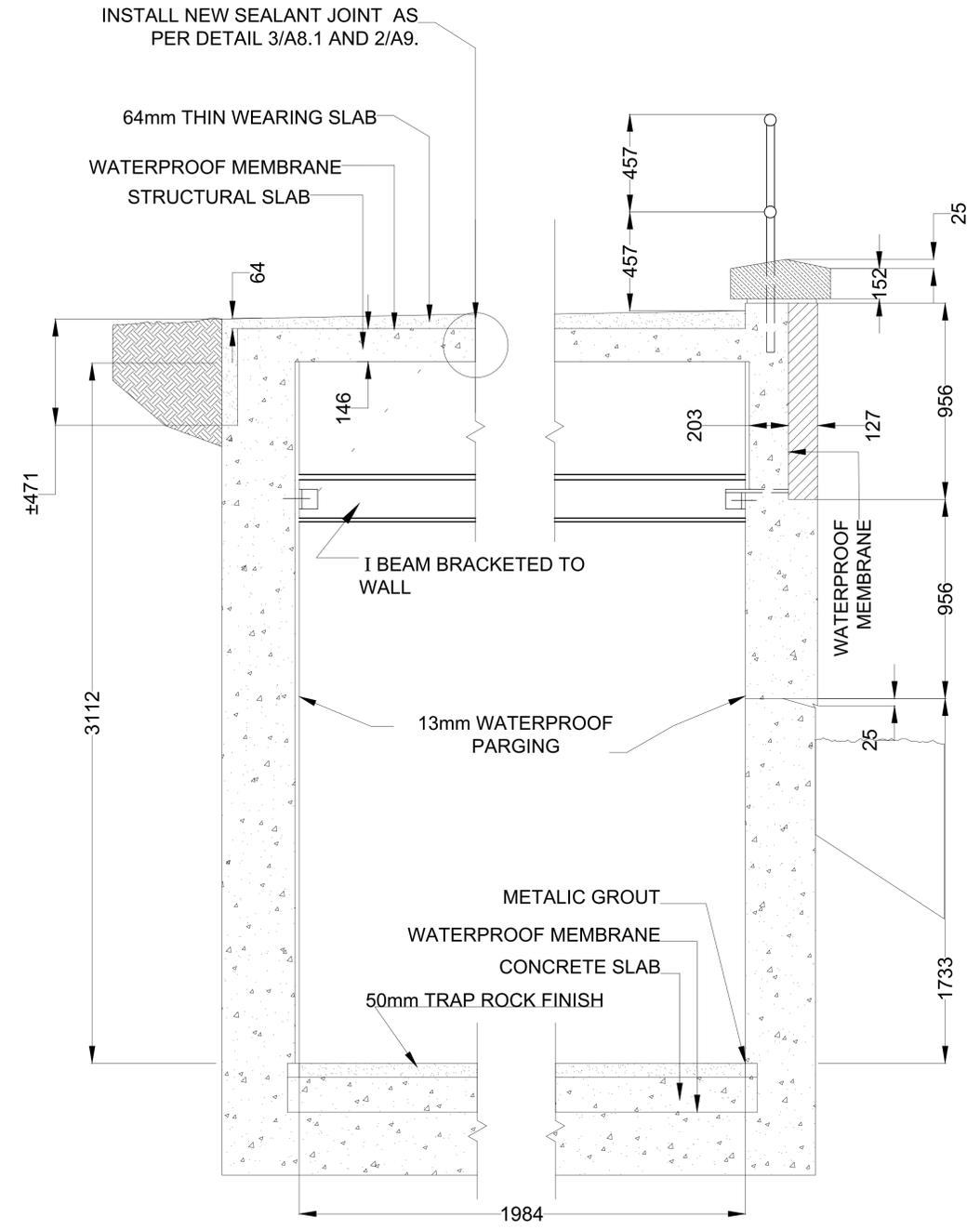
EXPANSION JOINT

WINDOW

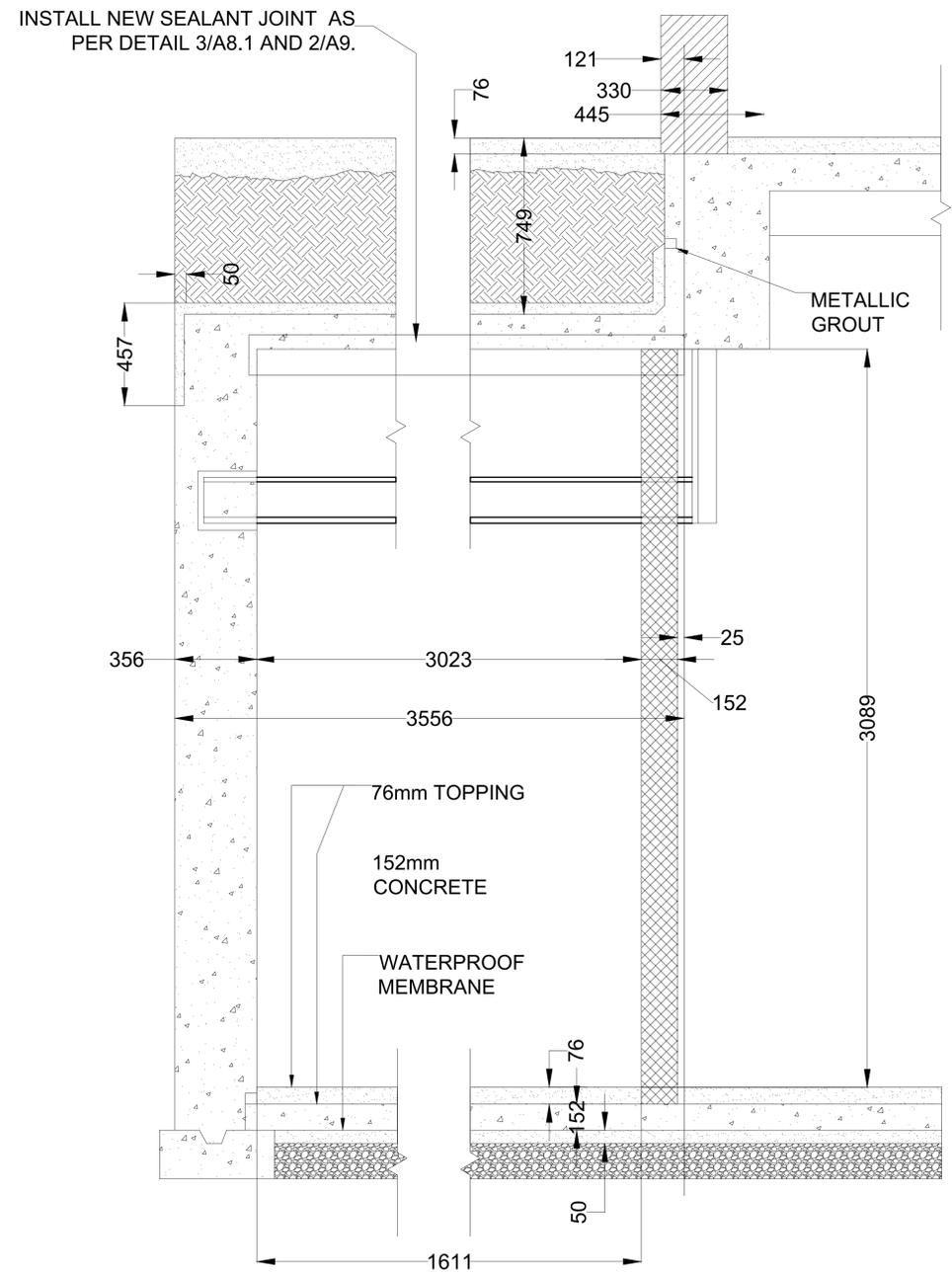
DOOR

NOTE:
 1) ALL EXTERIOR SEALANT AT CONCRETE JOINTS (EXPOSED SLAB AND RAILING BASE ARE TO BE REPLACED WITH NEW SEALANT) .
 2) ALL EXPANSION JOINTS ARE TO BE INSTALLED FROM THE EXTERIOR OF THE TUNNEL AS PER DETAILS IN DRAWING A8.1 AND A8.2.

NOTE:
 1) ALL EXPANSION JOINTS ARE TO BE INSTALLED FROM THE EXTERIOR OF THE TUNNEL AS PER DETAILS IN DRAWING A8.1 AND A8.2.



SECTION "T1-T1"



SECTION "T2-T2"

1 SECTION DETAIL
 A5.1 N.T.S.

2 SECTION DETAIL
 A5.1 N.T.S.



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

A	A detail no. / no. du détail	A
C	B location drawing no. / sur dessin no.	B
	C drawing no. / dessin no.	C

project / projet
TUNNEL EXPANSION JOINT REPLACEMENT
 R.065220.541

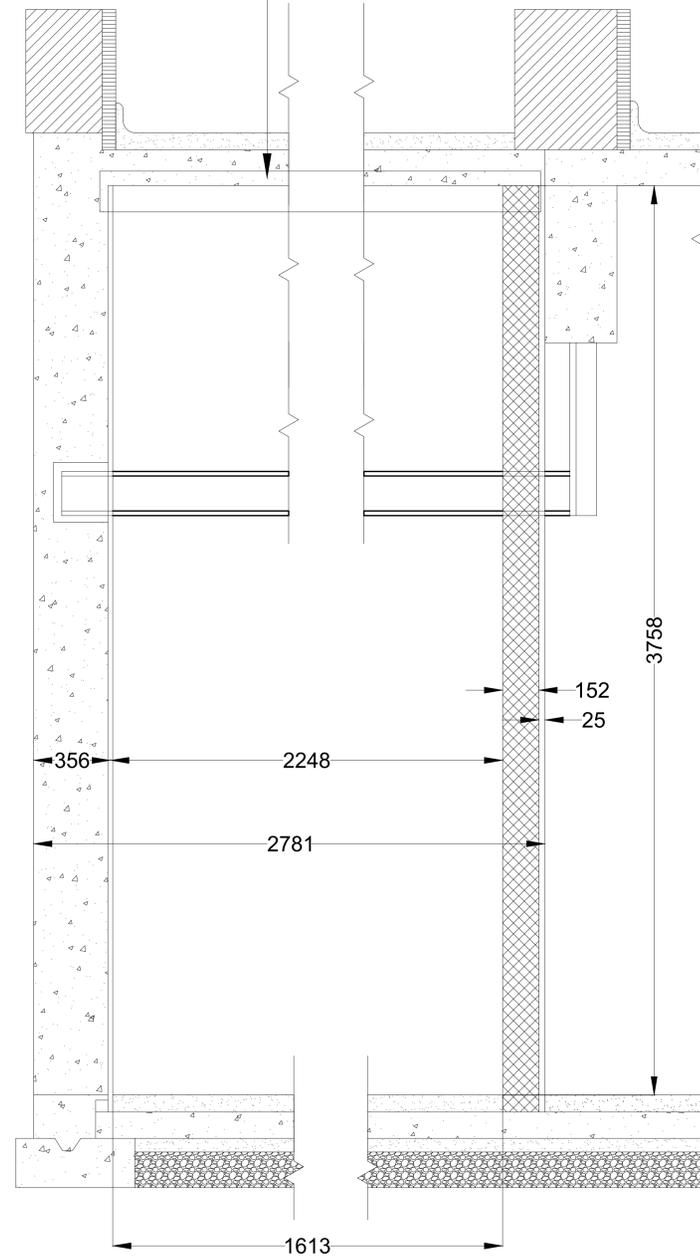
drawing / dessin
SECTION DETAIL

Designed By / Conçu par: S.V. / (yyyy/mm/dd)
 Date: 2021/10/21
 Drawn By / Dessiné par: R.V. / (yyyy/mm/dd)
 Date: 2021/10/21
 Reviewed By / Examiné par: S.V. / (yyyy/mm/dd)
 Date: 2021/10/21
 Approved By / Approuvé par: S.V. / (yyyy/mm/dd)
 Date: 2021/10/21
 Tender / Soumission

Project Manager / Administrateur de projets
 Project no. / No. du projet: **R.065220.541**
 Drawing no. / No. du dessin: **A5.1**

NOTE:
1) ALL EXPANSION JOINTS ARE TO BE INSTALLED FROM THE EXTERIOR OF THE TUNNEL AS PER DETAILS IN DRAWING A8.1 AND A8.2.

INSTALL NEW SEALANT JOINT AS PER DETAIL 3/A8.1 AND 2/A9. NEW STAINLESS STEEL PAN)



SECTION "T3-T3"

1 SECTION DETAIL
A5.2 N.T.S.

LEGEND

- EXPANSION JOINT
- WINDOW
- DOOR



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

A	A detail no. / no. du détail	A
C	B location drawing no. / sur dessin no.	B
	C drawing no. / dessin no.	C

project / projet
TUNNEL EXPANSION JOINT REPLACEMENT
R.065220.541

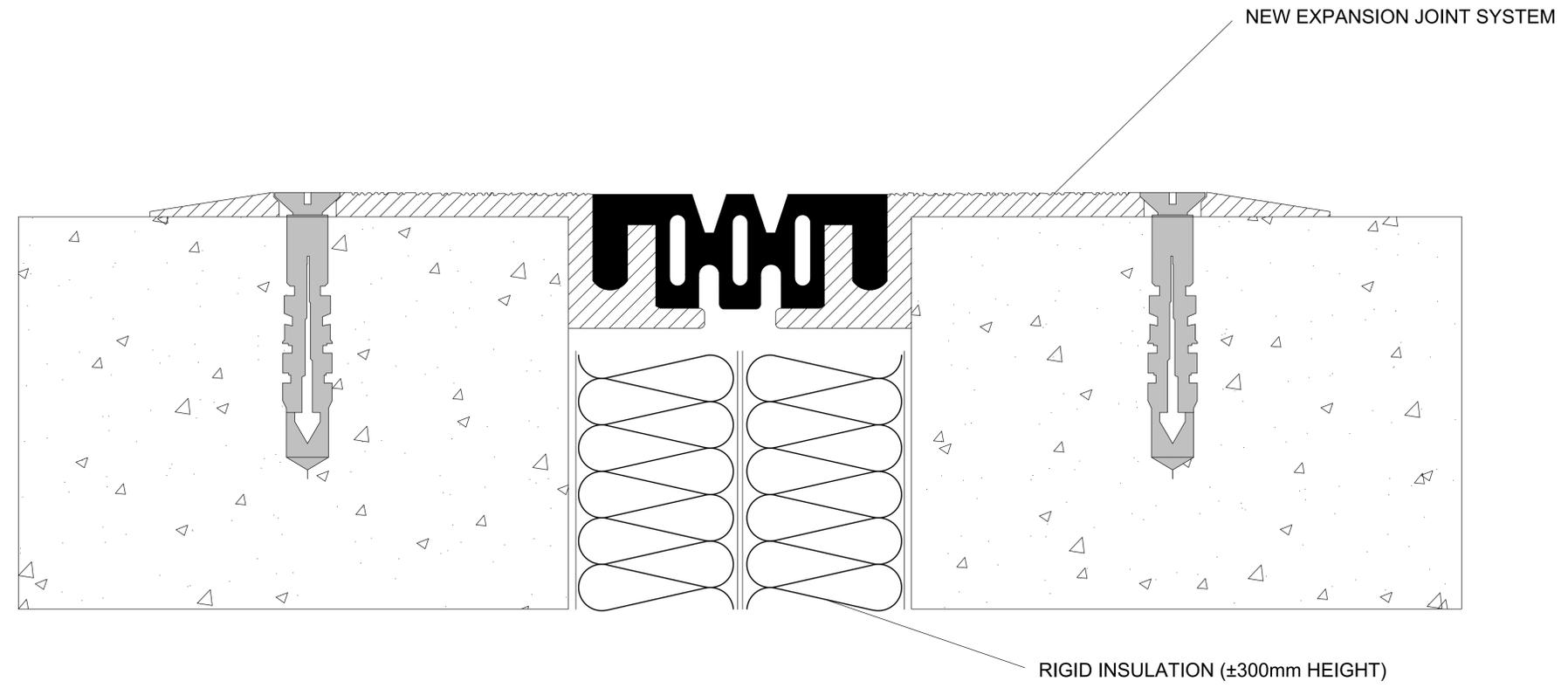
drawing / dessin
SECTION DETAIL

Designed By / Conçu par: S.V. / 2021/10/21 / (yyyy/mm/dd)
Date / Date: 2021/10/21 / (yyyy/mm/dd)
Drawn By / Dessiné par: R.V. / 2021/10/21 / (yyyy/mm/dd)
Date / Date: 2021/10/21 / (yyyy/mm/dd)
Reviewed By / Examiné par: S.V. / 2021/10/21 / (yyyy/mm/dd)
Date / Date: 2021/10/21 / (yyyy/mm/dd)
Approved By / Approuvé par: S.V. / 2021/10/21 / (yyyy/mm/dd)
Date / Date: 2021/10/21 / (yyyy/mm/dd)
Tender / Soumission

Project Manager / Administrateur de projets
Project no. / No. du projet: R.065220.541
Drawing no. / No. du dessin: A5.2

LEGEND

- EXPANSION JOINT
- WINDOW
- DOOR



PROFILE	TOTAL MOVEMENT Δbf (mm)	PROFILE WIDTH TOTAL Δbf (mm)	JOINT WIDTH REQUIRED Δbf (mm)	WIDTH OF INSERT Δbf (mm)	INSTALLATION HEIGHT Δbf (mm)	THICKNESS OF ALU SIDE PLATES Δbf (mm)	LOAD BEARING CAPACITY
EXPANSION JOINT	16(±8)	170	50	43	16	3	PEDESTRIANS



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

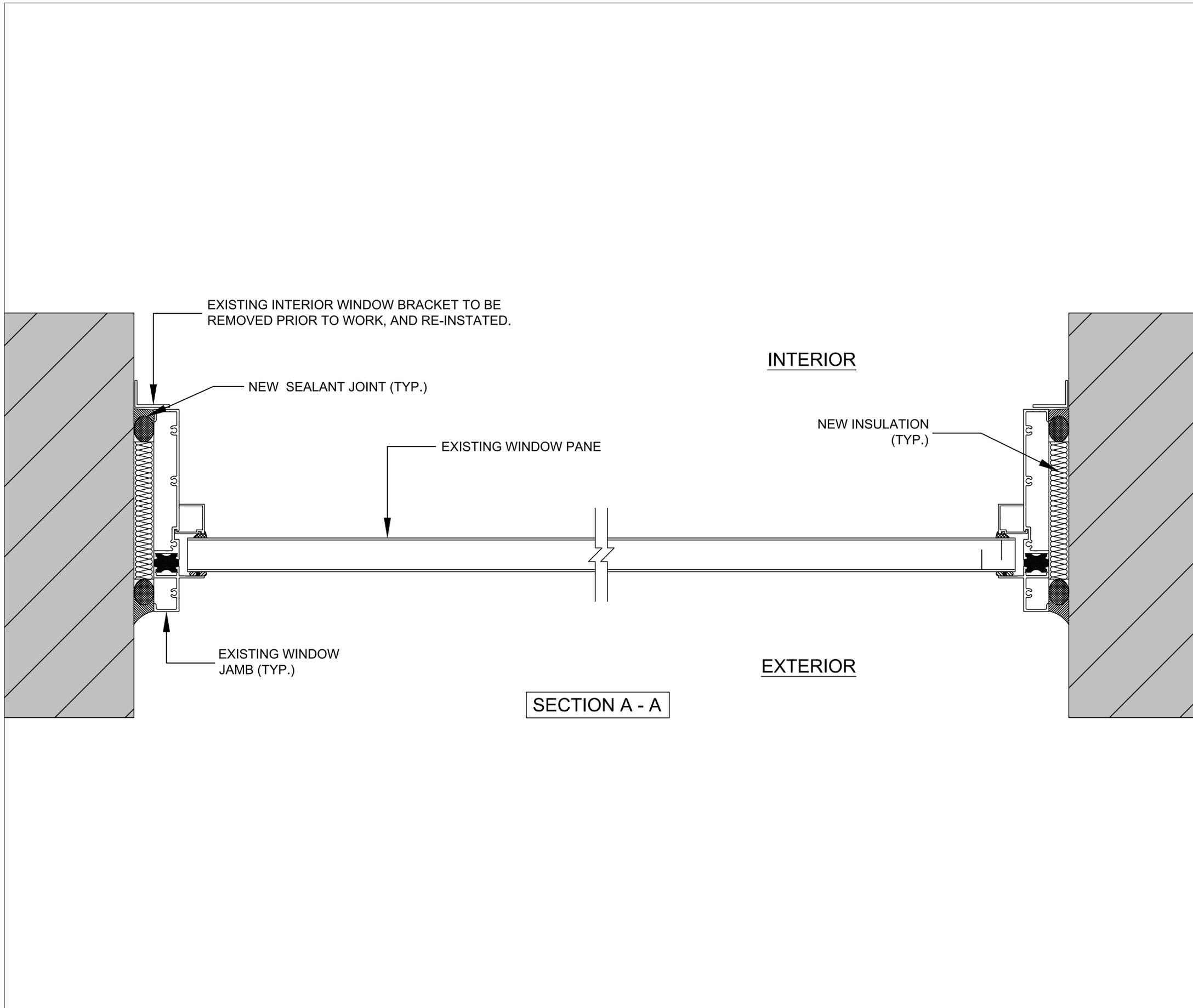
revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

A A detail no.
C no. du detail
A B location drawing no.
B sur dessin no.
C C drawing no.
C dessin no.

project / projet
TUNNEL EXPANSION JOINT REPLACEMENT
 R.065220.541

drawing / dessin
INTERIOR FLOOR EXPANSION JOINT DETAIL

Designed By Date	S.V. 2021/10/21	Conçu par (yyyy/mm/dd)
Drawn By Date	R.V. 2021/10/21	Dessiné par (yyyy/mm/dd)
Reviewed By Date	S.V. 2021/10/21	Examiné par (yyyy/mm/dd)
Approved By Date	S.V. 2021/10/21	Approuvé par (yyyy/mm/dd)
Tender		Soumission
Project Manager Project no.		Administrateur de projets No. du projet
Drawing no.		No. du dessin



LEGEND

- EXPANSION JOINT
- WINDOW
- DOOR

Canada
 Public Services and Procurement Canada / Services publics et Approvisionnement Canada
 Real Property Branch / Direction générale des biens immobiliers

IRC BUILDING SCIENCES GROUP
 VANCOUVER • LONDON • MISSISSAUGA • OTTAWA • QUEBEC
 TOLL FREE: 1-888-607-5245 TEL: 613.225.0693
 WWW.IRCGROUP.COM FAX: 613.225.7331

- NOTE:**
1. NEW INSULATION TO BE APPLIED ALL AROUND THE WINDOW
 2. NEW BACKER ROD AND SEALANT ALL AROUND WINDOW FRAME, INTERIOR AND EXTERIOR



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

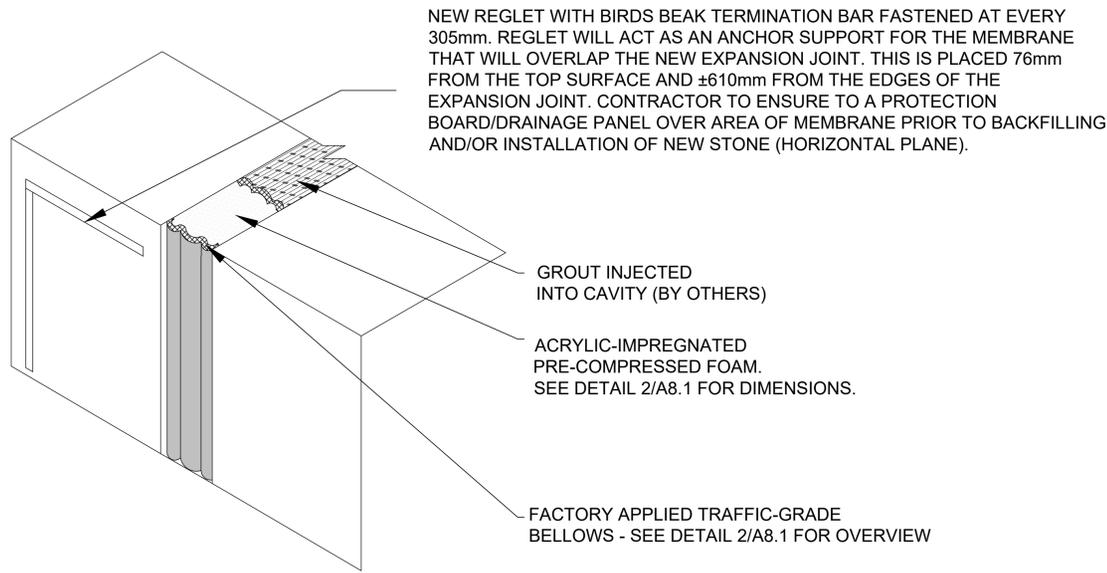
project / projet
TUNNEL EXPANSION JOINT REPLACEMENT

R.065220.541

drawing / dessin
WINDOW DETAIL

Designed By / Conçu par
 Date / (yyyy/mm/dd)
 Drawn By / Dessiné par
 Date / (yyyy/mm/dd)
 Reviewed By / Examiné par
 Date / (yyyy/mm/dd)
 Approved By / Approuvé par
 Date / (yyyy/mm/dd)

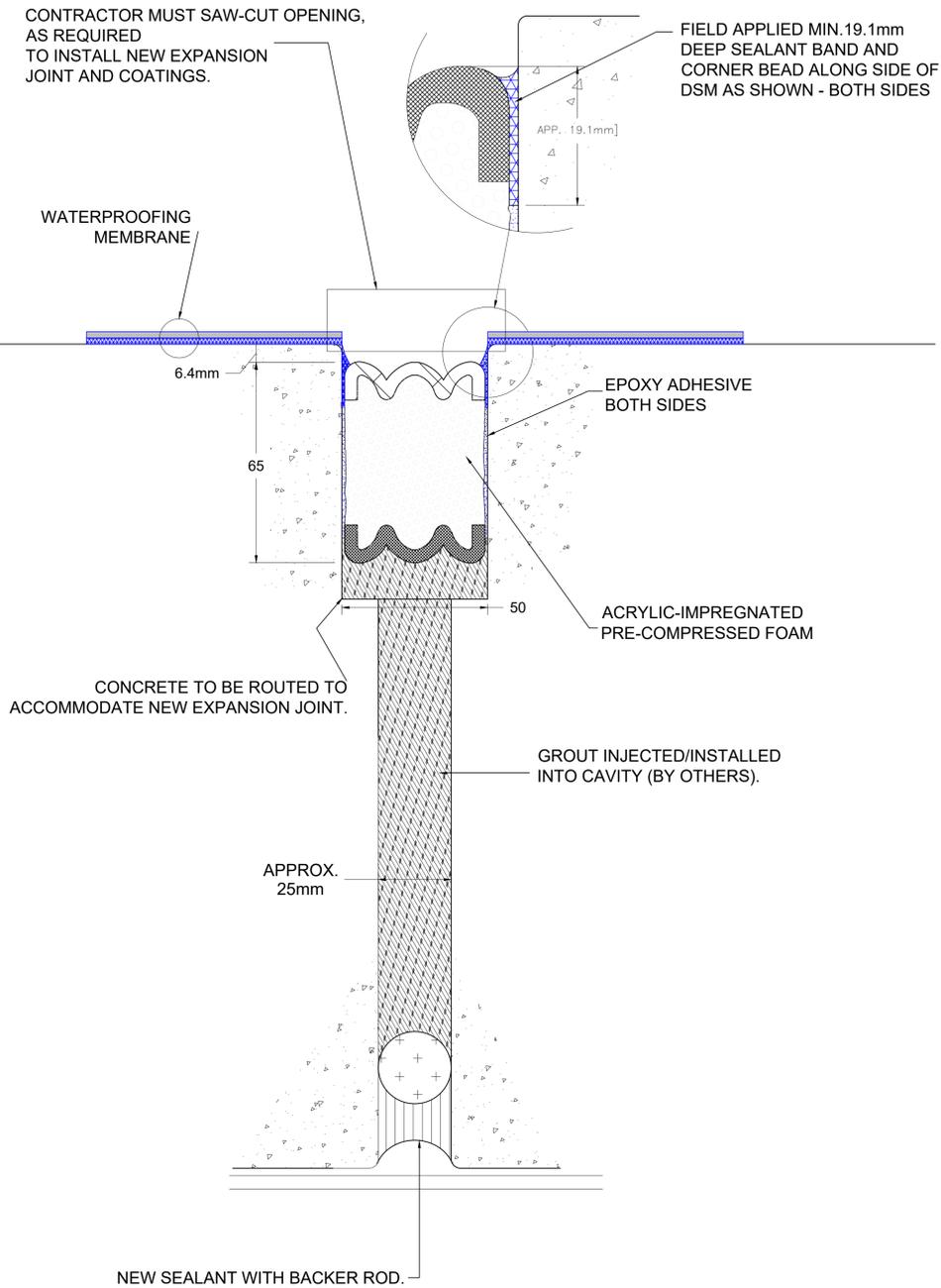
Tender / Soumission
 Project Manager / Administrateur de projets
 Project no. / No. du projet
R.065220.541
 Drawing no. / No. du dessin
A7



PLEASE NOTE THAT THIS IS A TYPICAL VIEW OF THE EXPANSION JOINT INSTALLATION FROM THE EXTERIOR PRIOR TO THE INSTALLATION OF A MEMBRANE OVERTOP ON THE VERTICAL WALLS. SEE DETAIL 1/A8.2 FOR VERTICAL EXPANSION JOINT TRANSITIONS.

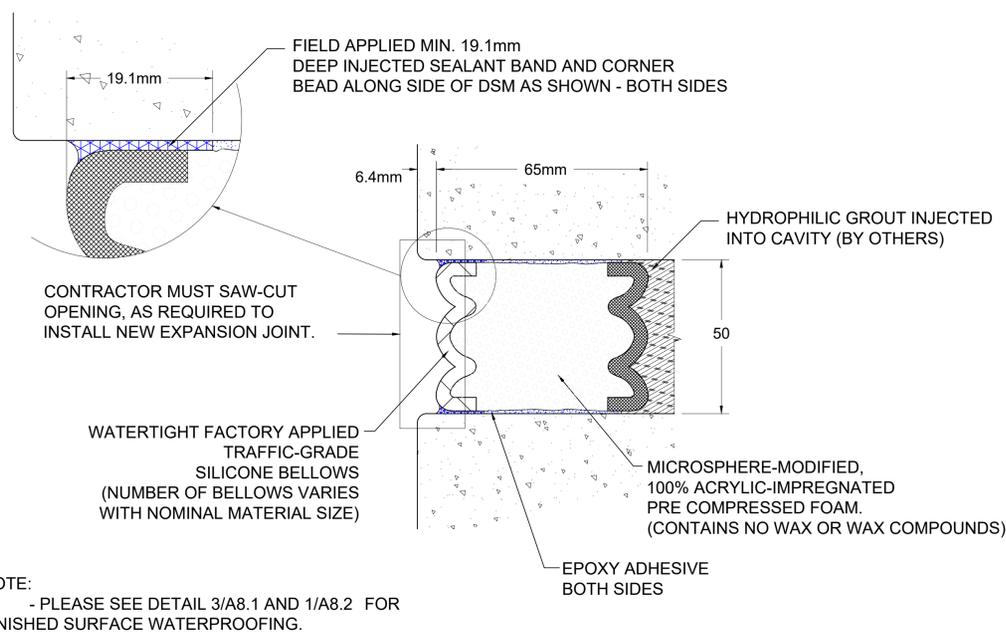
1 EXPANSION JOINT DETAIL (EXTERIOR WALLS)
 A8.1 N.T.S.

NOTE:
 - PLEASE SEE DETAIL 1/A8.2 FOR FINISHED SURFACE WATERPROOFING ON VERTICAL PLANE.



2 EXPANSION JOINT DETAIL (EXTERIOR WALLS)
 A8.1 N.T.S.

3 EXPANSION JOINT DETAIL (EXTERIOR JOINT - EXPOSED CONCRETE)
 A8.1 N.T.S.



2 EXPANSION JOINT DETAIL (EXTERIOR WALLS)
 A8.1 N.T.S.



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

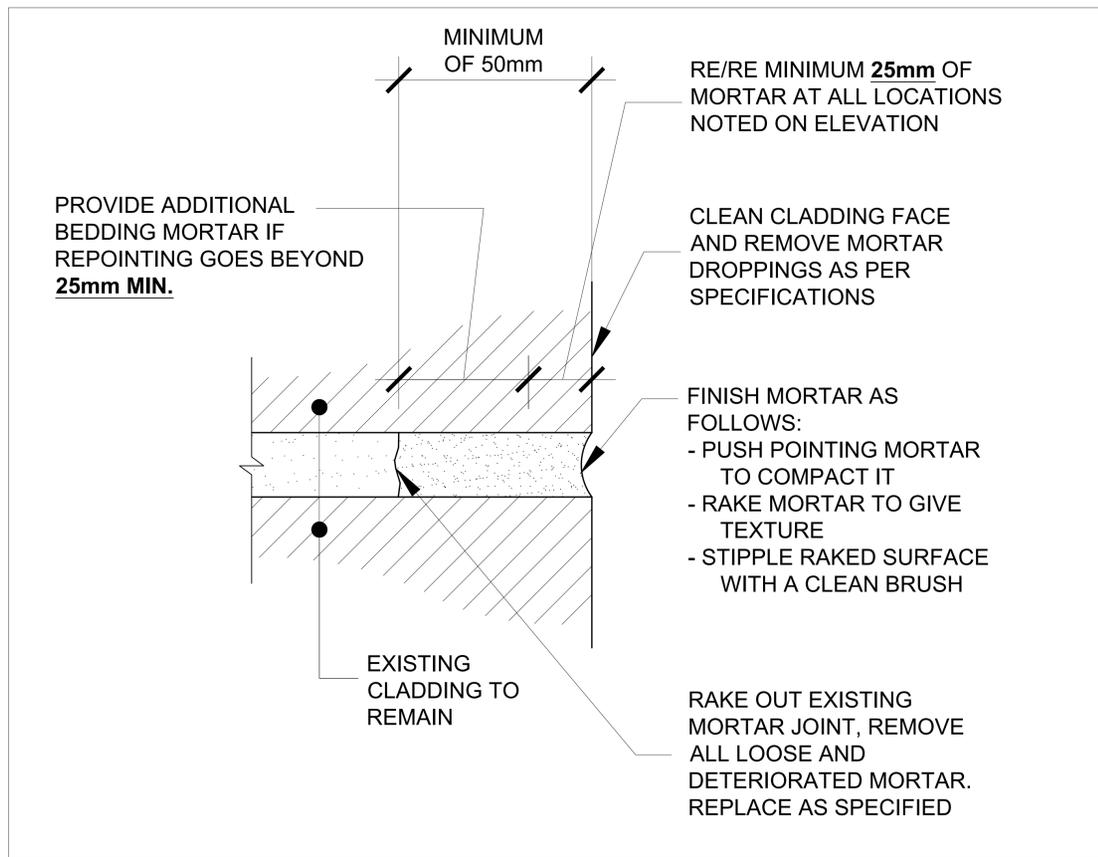
project / projet
TUNNEL EXPANSION JOINT REPLACEMENT
 R.065220.541

drawing / dessin
EXPANSION JOINT WALL & CEILING (EXTERIOR) DETAILS

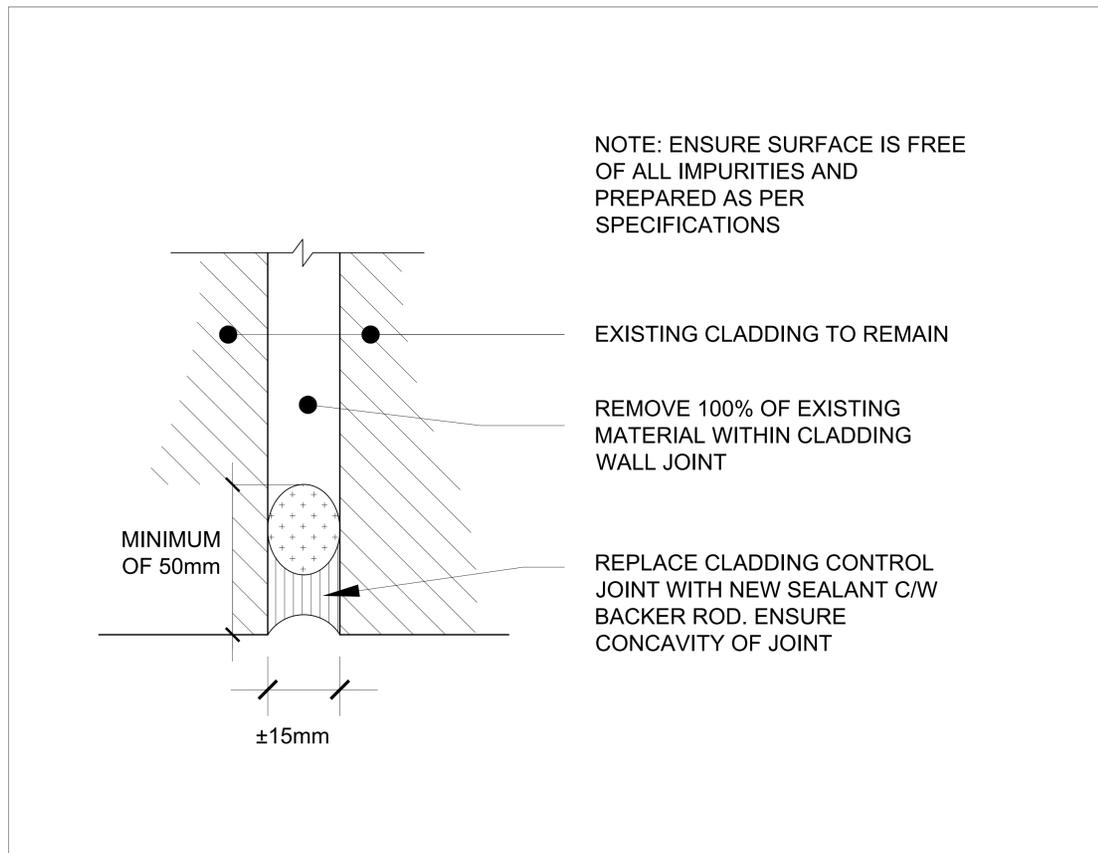
Designed By / Conçu par	S.V.	
Date	2021/10/21	(yyyy/mm/dd)
Drawn By / Dessiné par	R.V.	
Date	2021/10/21	(yyyy/mm/dd)
Reviewed By / Examiné par	S.V.	
Date	2021/10/21	(yyyy/mm/dd)
Approved By / Approuvé par	S.V.	
Date	2021/10/21	(yyyy/mm/dd)
Tender / Soumission		

Project Manager / Administrateur de projets
 Project no. / No. du projet
R.065220.541

Drawing no. / No. du dessin
A8.1



1 BRICK REPOINTING DETAIL
A9 N.T.S.



2 SEALANT JOINT (INTERIOR WALL, INTERIOR CEILING, AND EXTERIOR BRICK) DETAIL
A9 N.T.S.

LEGEND



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

revisions	description	date
8	ISSUED FOR TENDER	09/08/2022
7	ISSUED FOR TENDER	12/05/2021
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

A	A
C	B C

project project
TUNNEL EXPANSION JOINT REPLACEMENT
R.065220.541

drawing dessin
BRICK REPOINTING DETAILS

Designed By	S.V.	Conçu par
Date	2021/10/21	(yyyy/mm/dd)
Drawn By	R.V.	Dessiné par
Date	2021/10/21	(yyyy/mm/dd)
Reviewed By	S.V.	Examiné par
Date	2021/10/21	(yyyy/mm/dd)
Approved By	S.V.	Approuvé par
Date	2021/10/21	(yyyy/mm/dd)
Tender		Soumission

Project Manager Administrateur de projets
Project no. No. du projet
R.065220.541
Drawing no. No. du dessin
A9