

PART 1 - ADDENDUM

1.1 TITLE

- .1 This Addendum shall be known as:

Addendum 3
TFM-029-26 – TA-511-25 ACADEMIC TUNNELS RE-WATERPROOFING CP-1

- .2 The Date of the Addendum is Friday, May 01, 2026

1.2 PRECEDENCE

- .1 This amendment to the bid documents is effective immediately.
- .2 This Addendum shall form an integral part of the original bid documents and is to be read in conjunction therewith.
- .3 The Addendum shall take precedence over previously issued bid documents with which it may prove to be at variance.

1.3 GENERAL

- .1 The General Conditions shall govern all phases of the Work covered by this Addendum.
- .2 Acknowledge receipt of this addendum in the Tender and Acceptance form.

1.4 PURPOSE

- .1 The purpose of the Addendum is to inform bidders of the changes, deletions and additions to be added to the bid documents.

1.5 CHANGES TO DRAWINGS

1. **Replace** drawing Cover Page (attached).
2. **Replace** drawing C-1.0 R3 with C-1.0 R4 (attached)
3. **Replace** drawing C-1.4 R0 with C-1.4 R1 (attached)
4. **Replace** drawing C-2.7 R0 with C-2.7 R1 (attached)
5. **Replace** drawing C-2.8 R0 with C-2.8 R1 (attached)
6. **Add** drawing C-2.9 R0 (attached)

1.6 CHANGES TO SPECIFICATION

1. **Replace** Section 00 01 15 (List of Drawings) with attached.

1.7 QUESTIONS AND RESPONSES
N/A

END OF ADDENDUM

PART 1 - GENERAL

- 1.1 C SERIES DRAWINGS – CIVIL
 - .1 C-1.0 Location Plan
 - .2 C-1.1 Education and Library to University Center Demolition and New Site Plans (Price 'A')
 - .3 C-1.2 Physical Education to Arts and Administration and Science to Arts and Administration Demolition and New Site Plans (Price 'A')
 - .4 C-1.3 Arts and Administration to Math Demolition and New Site Plans (Price 'A')
 - .5 C-1.4 Prince Philip Drive and Kerwin Place Demolition and New Site Plans (Price 'B' and 'C')
 - .6 C-2.0 Sections and Details
 - .7 C-2.1 Sections and Details
 - .8 C-2.2 Sections and Details
 - .9 C-2.3 Sections and Details
 - .10 C-2.4 Sections and Details
 - .11 C-2.5 Sections and Details
 - .12 C-2.6 Sections and Details
 - .13 C-2.7 Sections and Details
 - .14 C-2.8 Sections and Details
 - .15 C-2.9 Sections and Details

END OF SECTION

Memorial University of Newfoundland

ACADEMIC TUNNELS RE-WATERPROOFING

CP-1

TA-511-25

ST. JOHN'S CAMPUS

APRIL 9, 2026

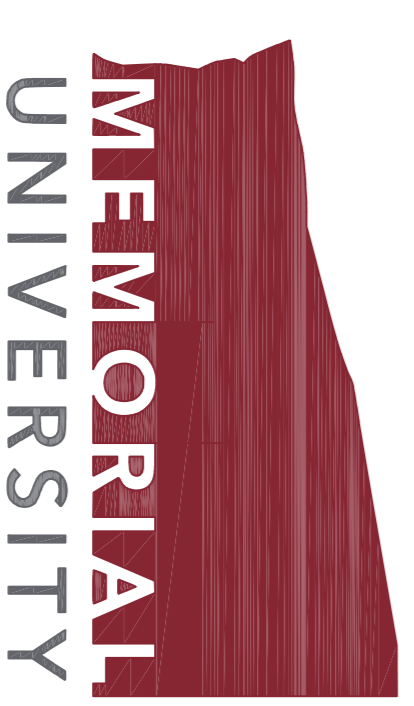
ISSUED FOR TENDER

LIST OF DRAWINGS

- C-1.0 - LOCATION PLAN
- C-1.1 - EDUCATION AND LIBRARY TO UNIVERSITY CENTER
DEMOLITION AND NEW SITE PLANS (PRICE 'A')
- C-1.2 - PHYSICAL EDUCATION TO ARTS AND ADMINISTRATION
AND SCIENCE TO ARTS AND ADMINISTRATION
DEMOLITION AND NEW SITE PLANS (PRICE 'A')
- C-1.3 - ARTS AND ADMINISTRATION TO MATH DEMOLITION AND
NEW SITE PLANS (PRICE 'A')
- C-1.4 - PRINCE PHILIP DRIVE AND KERWIN PLACE DEMOLITION
AND NEW SITE PLANS (PRICE 'B' AND 'C')
- C-2.0 - SECTIONS AND DETAILS
- C-2.1 - SECTIONS AND DETAILS
- C-2.2 - SECTIONS AND DETAILS
- C-2.3 - SECTIONS AND DETAILS
- C-2.4 - SECTIONS AND DETAILS
- C-2.5 - SECTIONS AND DETAILS
- C-2.6 - SECTIONS AND DETAILS
- C-2.7 - SECTIONS AND DETAILS
- C-2.8 - SECTIONS AND DETAILS
- C-2.9 - SECTIONS AND DETAILS

*This University was raised by the people of Newfoundland as a memorial
to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning,
their cause and sacrifice might not be forgotten.*

- Dedication plaque, Arts & Administration Building, St. John's Campus



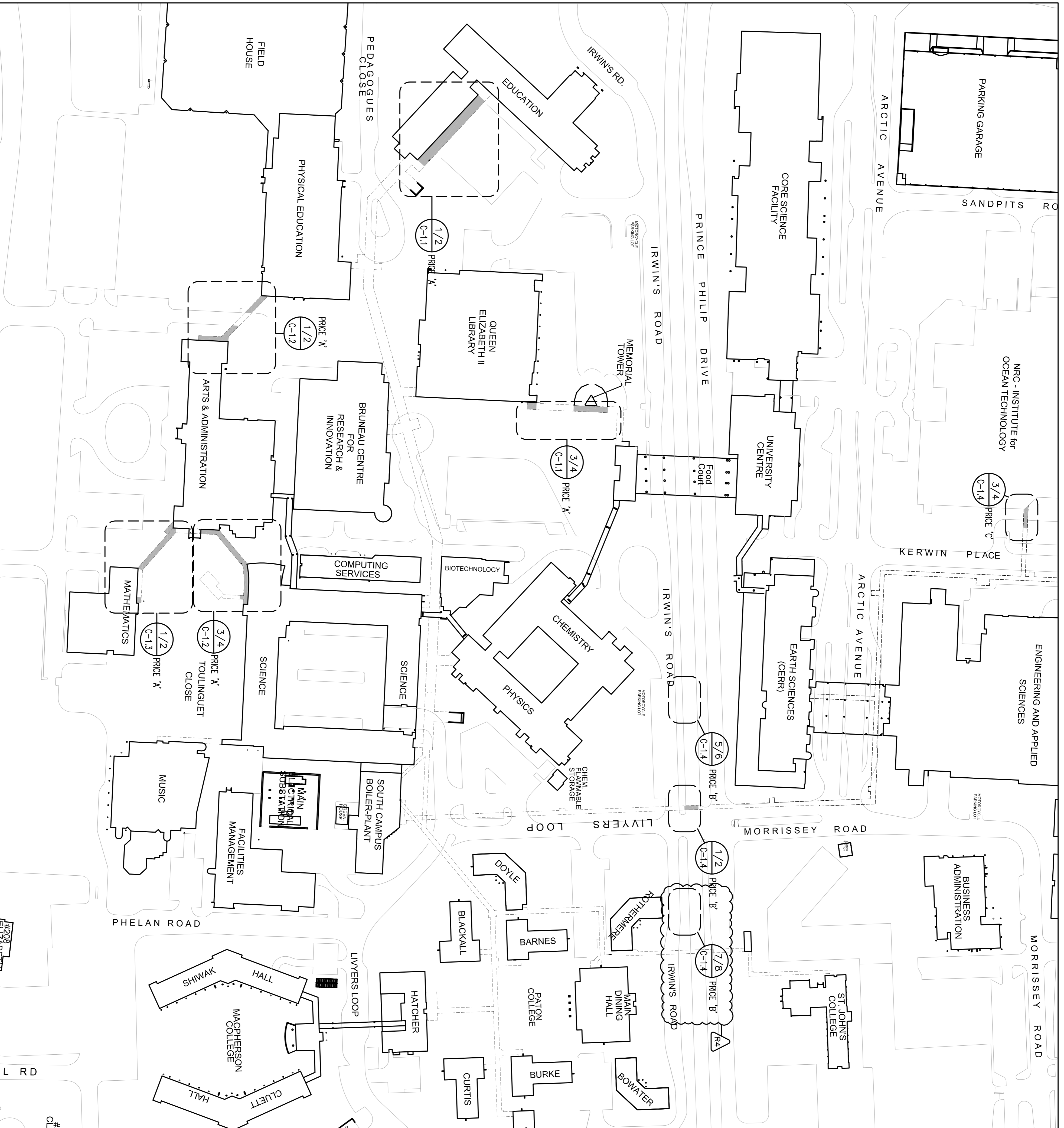
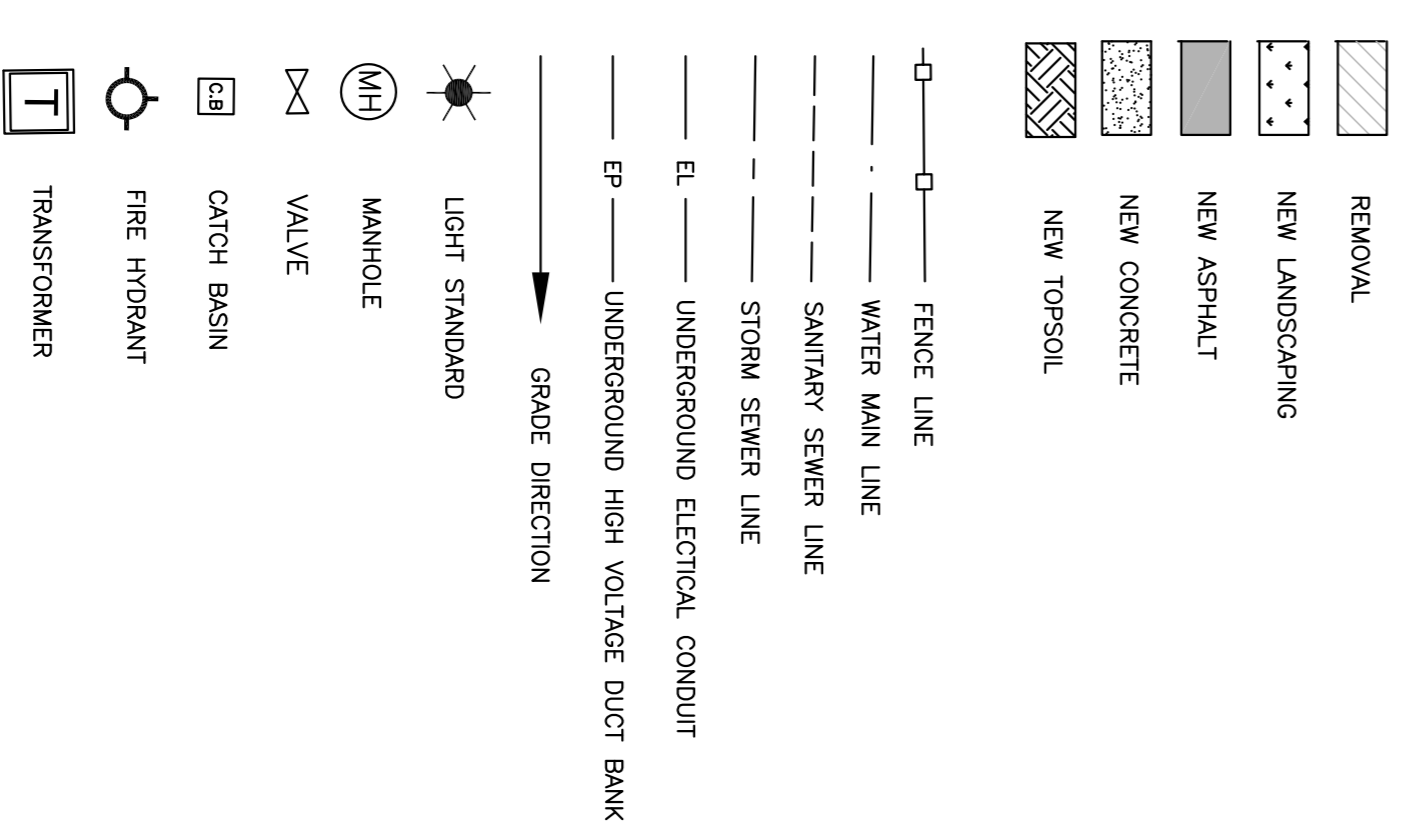
**FACILITIES
MANAGEMENT**

TA-511-25 CP-1 ISSUED FOR TENDER

CONSTRUCTION NOTES (APPLIES TO ALL DRAWINGS)

1. ALL WORK TO BE PERFORMED TO IN ACCORDANCE WITH MEMORIAL UNIVERSITY OF NEWFOUNDLAND SPECIFICATIONS, AND CITY OF ST. JOHN'S CONSTRUCTION SPECIFICATIONS.
2. COORDINATE ALL DEMOLITION WITH OWNER'S REPRESENTATIVE PRIOR TO START OF CONSTRUCTION.
3. ALL EXISTING CONCRETE AND ASPHALT TO BE SAW CUT AT LIMITS OF CONSTRUCTION PRIOR TO DEMOLITION AND REINSTATEMENT.
4. ENGAGE AS REQUIRED TO ACCOMMODATE CONSTRUCTION OF NEW CURB, GUTTER, SIDEWALK, ROADWAY, ETC. AS PER DETAILS.
5. ALL CONCRETE CURB, GUTTER, AND SIDEWALK TO BE CLASS C-2 EXPOSURE WITH MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 32 MPa.
6. ALL CONCRETE WALKWAYS TO BE A 150 mm IN THICKNESS.
7. INSTALL EXPANSION JOINTS ALONG LENGTH ADJACENT TO CONCRETE CURBS AND ADJACENT TO EXISTING CONCRETE WALKWAYS.
8. ALL MANHOLES TO BE SET 5 mm BELOW CONCRETE OR FINISHED ASPHALT GRADE.
9. ALL CATCH BASINS TO BE SET 30 mm BELOW FINISHED ASPHALT GRADES.
10. NEW LINE PAINTING TO BE COMPLETED AS SHOWN. REINSTATE ALL EXISTING LINE PAINTING AFFECTED BY CONSTRUCTION.
11. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES AT NO COST TO OWNER.
12. INSTALL EXPANSION JOINT AT INTERVALS OF 6 METERS IN NEW CONCRETE SIDEWALKS/WALKWAYS.
13. INSTALL CONCRETE SAW CUTS AT 2.1m MAX OR AS SHOWN ON DRAWINGS IN NEW CONCRETE SIDEWALKS/WALKWAYS.
14. REINSTATE LANDSCAPING ALONG EDGE OF NEW CONCRETE SIDEWALKS AND CURB. MIN 0.5m WIDTH.
15. ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR. WORK SITE TO BE LEFT IN SAFE CONDITION AT THE END OF EACH WORK DAY.
16. CONTRACTORS SHALL AVOID WRITTEN APPROVAL FOR ANY CHANGE ORDERS BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING ANY WORK OR ORDER OF ANY MATERIALS RELATING TO A CHANGE.
17. PROVIDE CERTIFICATE OF GUARANTEE OF WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER.
18. HATCHED AREAS INDICATE APPROXIMATE AREA FOR EXCAVATION. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REINSTATE MATERIAL AS EXCAVATED TO ACHIEVE A MAX OF 1:1 SLOPING TO THE REQUIRED DEPTHS.
19. ALL CATCH BASINS, MANHOLES AND GRADE ADJUSTMENT STRUCTURES SUBJECT TO EXAMINATION TO BE REPLACED. (SEE DETAILS 7/C-2.6 AND 8/C-2.8)
20. CONTRACTOR IS TO HOARD WORK AS NECESSARY AND PROTECT REMAINING PREMISES IN THE WORK AREA AND ADJACENT AREAS FROM DAMAGE AND MAKE GOOD ANY DAMAGES THAT MAY OCCUR DURING THE WORK.
21. ALL DISTURBED AREAS BEYOND LIMITS OF WORK TO BE RESTORED TO ORIGINAL CONDITIONS OR BETTER.
22. ALL EXISTING TREES LOCATED IN THE AREAS OF REMOVAL ARE TO BE REMOVED (TYPICAL).

LEGEND

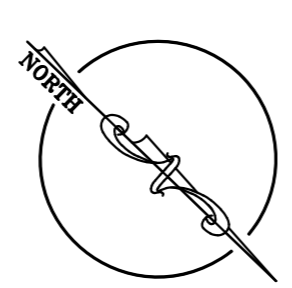


LOCATION PLAN
SCALE: N.T.S

No.	REVISION	DATE
R4	ISSUED FOR ADDENDUM#3	APR 2026
R3	ISSUED FOR ADDENDUM#2	APR 2026
R2	ISSUED FOR ADDENDUM#1	APR 2026
R1	ISSUED FOR TENDER	APR 2026

GENERAL NOTES

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2. DO NOT SCALE FROM DRAWINGS.
3. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO SUBMISSION OF TENDERS.
4. ALL DEFICIENCIES FOUND IN THIS DRAWING IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEERING AND DEVELOPMENT OFFICE OF THE UNIVERSITY OF NEWFOUNDLAND PRIOR TO THE SUBMISSION OF THE TENDERS.

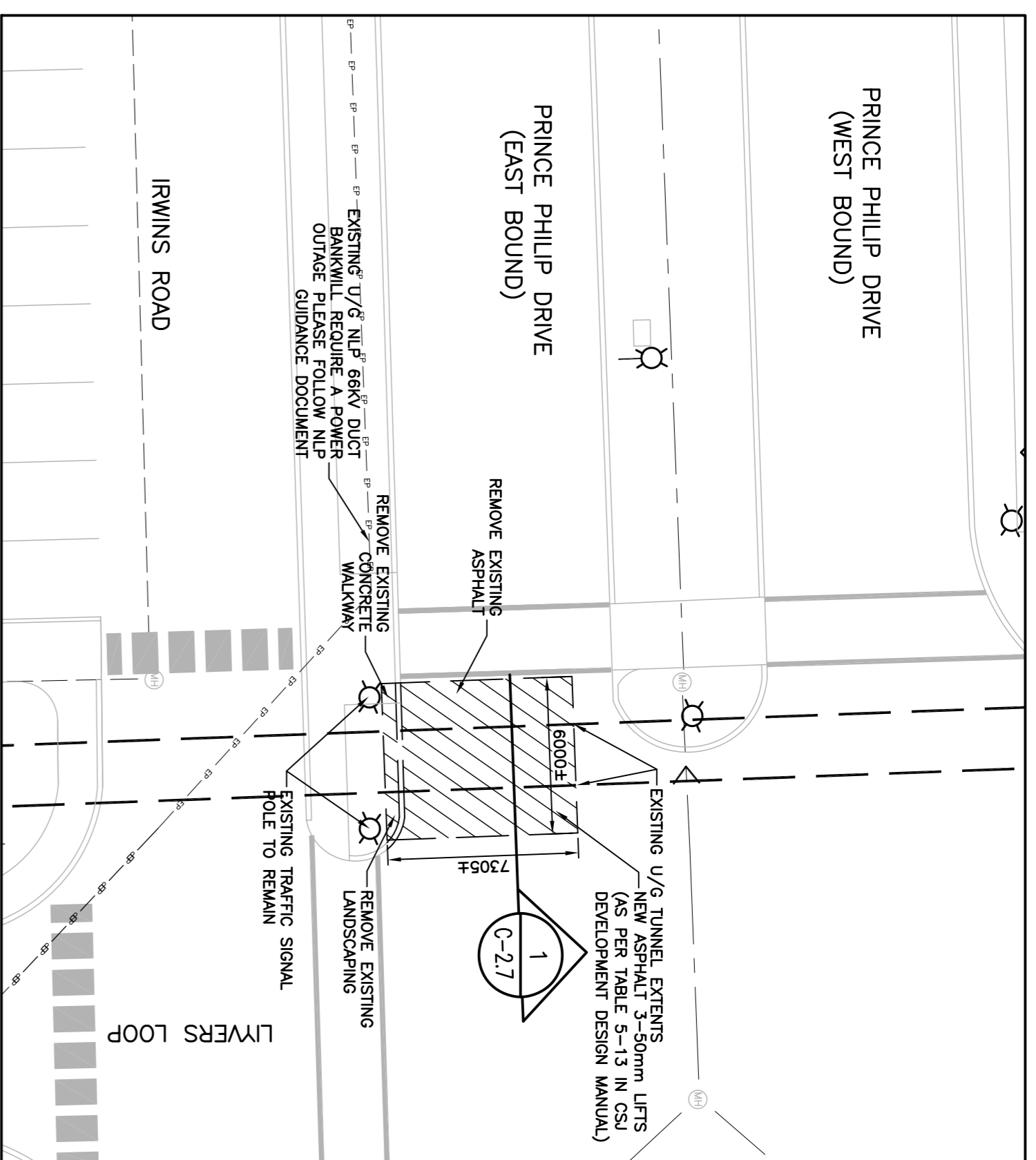


FACILITIES MANAGEMENT
UNIVERSITY OF NEWFOUNDLAND

PROJECT NAME:
ACADEMIC TUNNELS RE-WATERPROOFING CP-1
Project #: TA-511-25

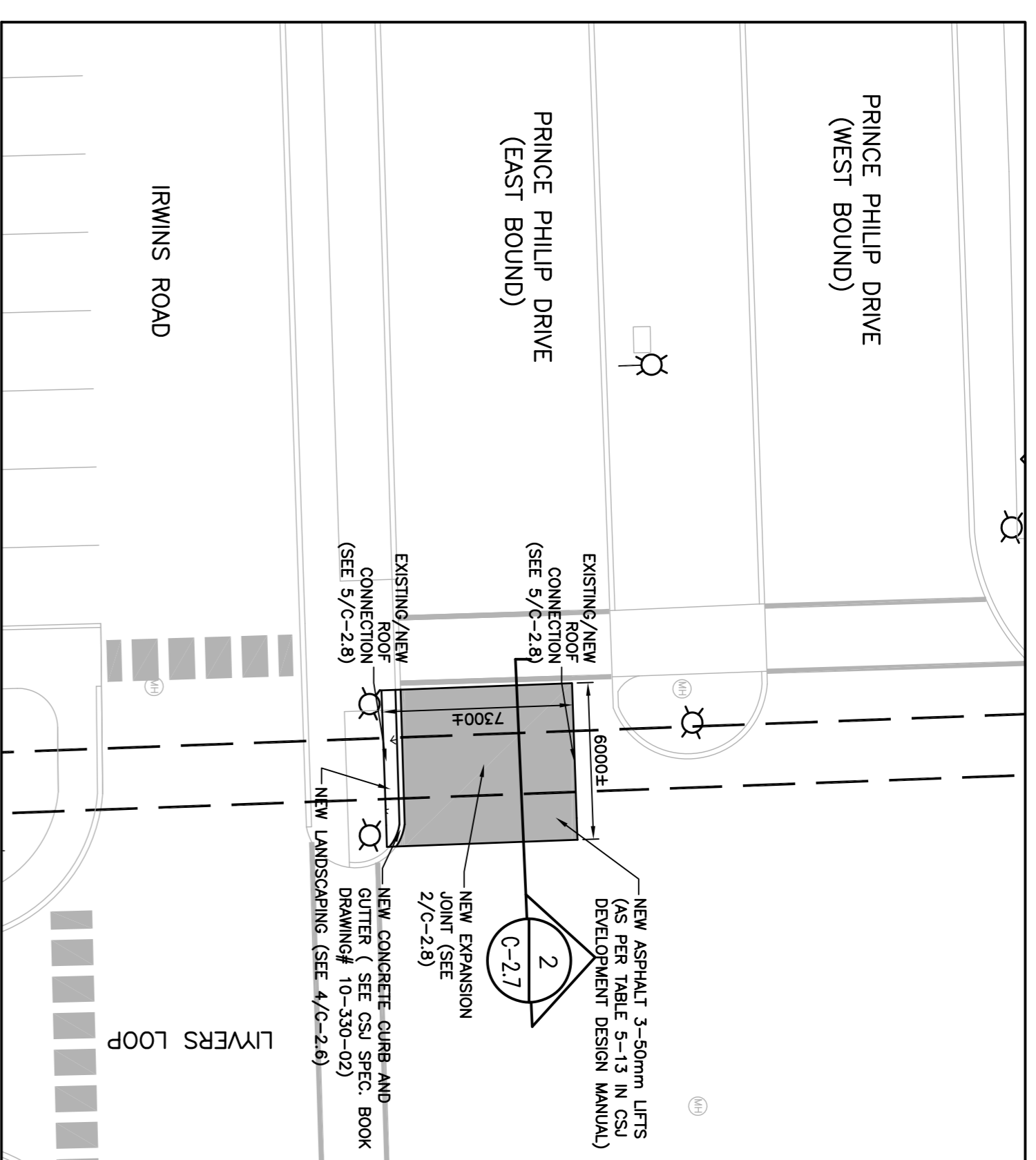
DRAWING TITLE:
LOCATION PLAN

DESIGNER: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-1.0



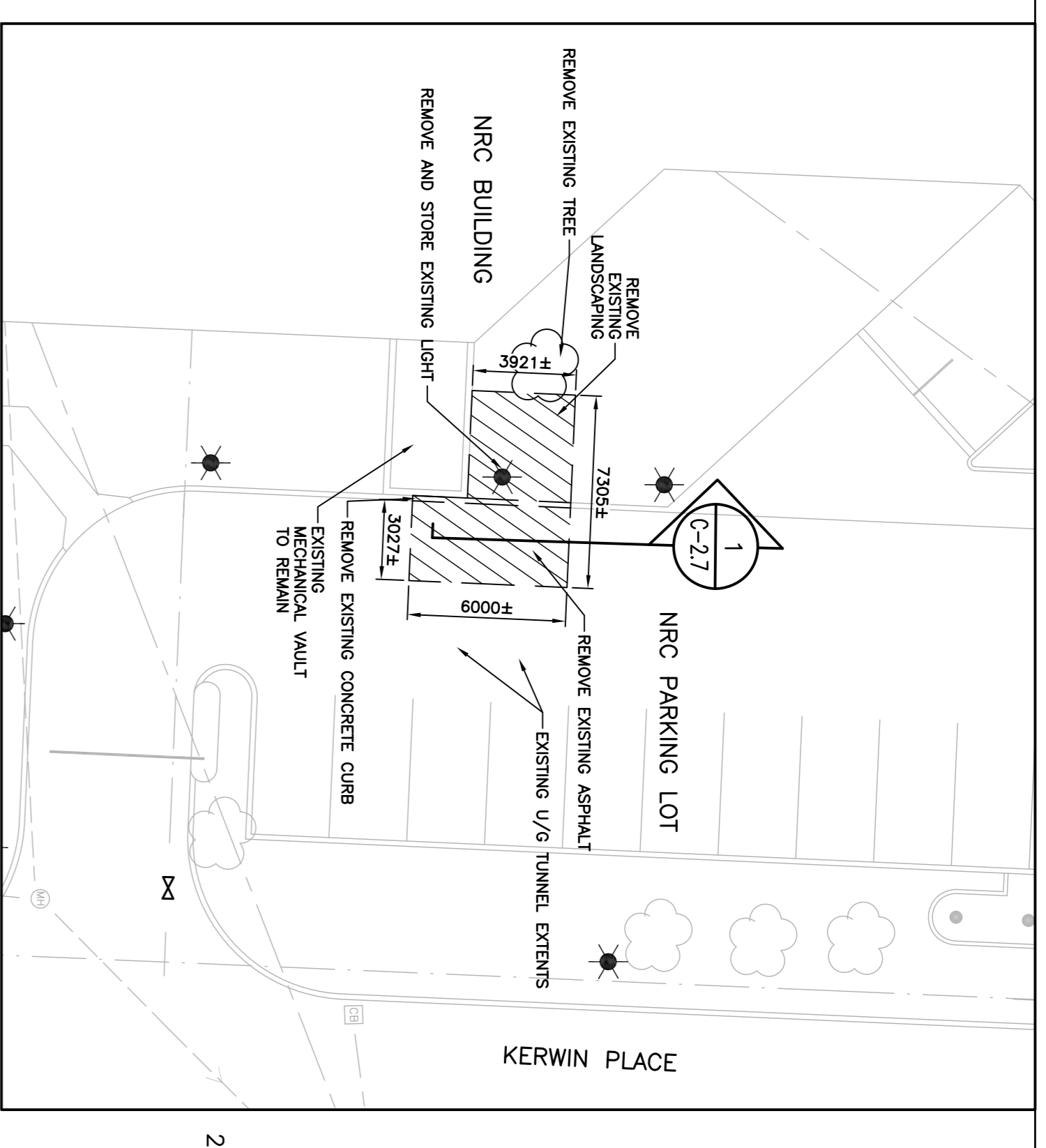
PRINCE PHILIP DRIVE DEMOLITION SITE PLAN (PRICE 'B')

C-14



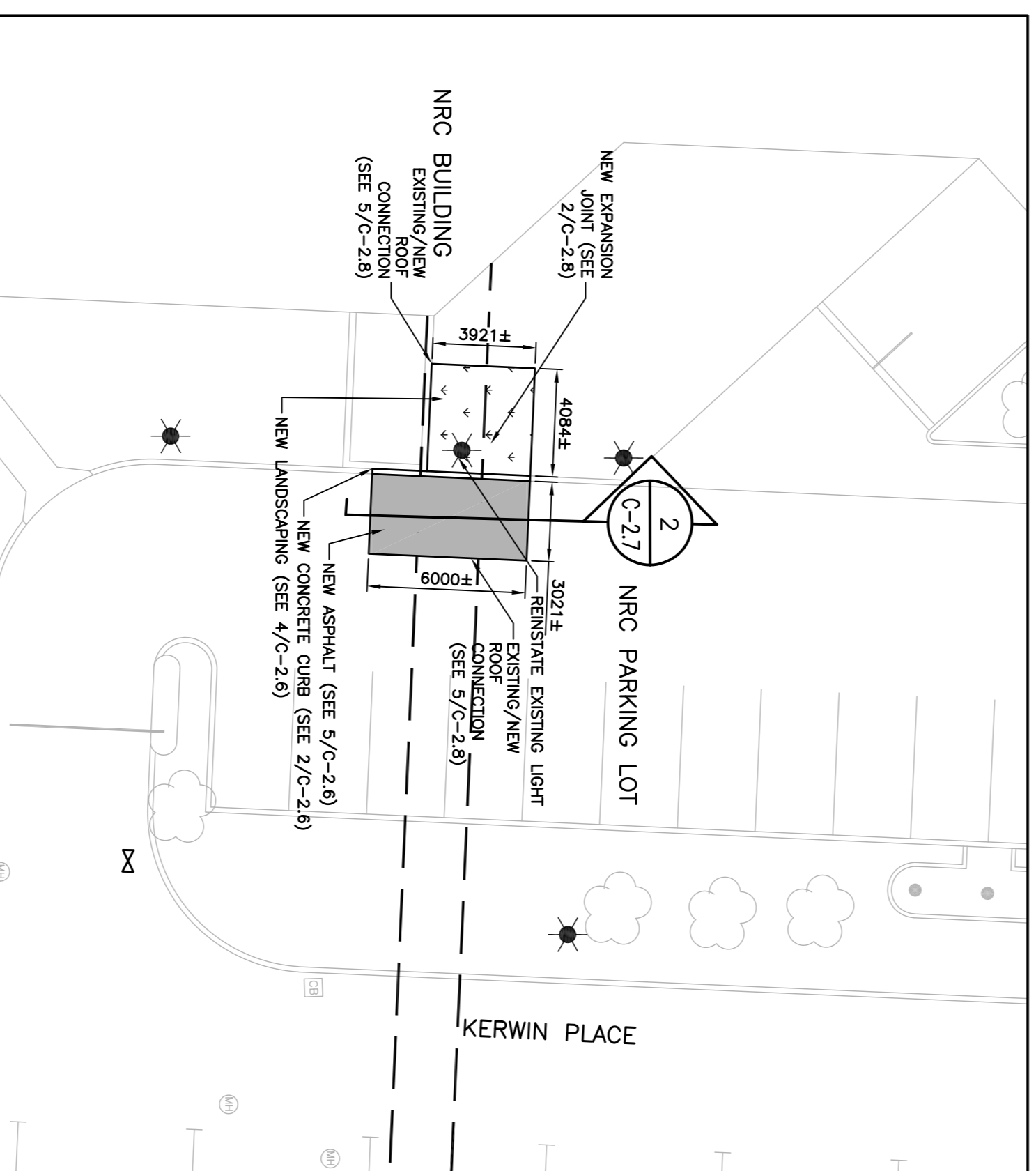
PRINCE PHILIP DRIVE DEMOLITION SITE PLAN (PRICE 'B')

C-14



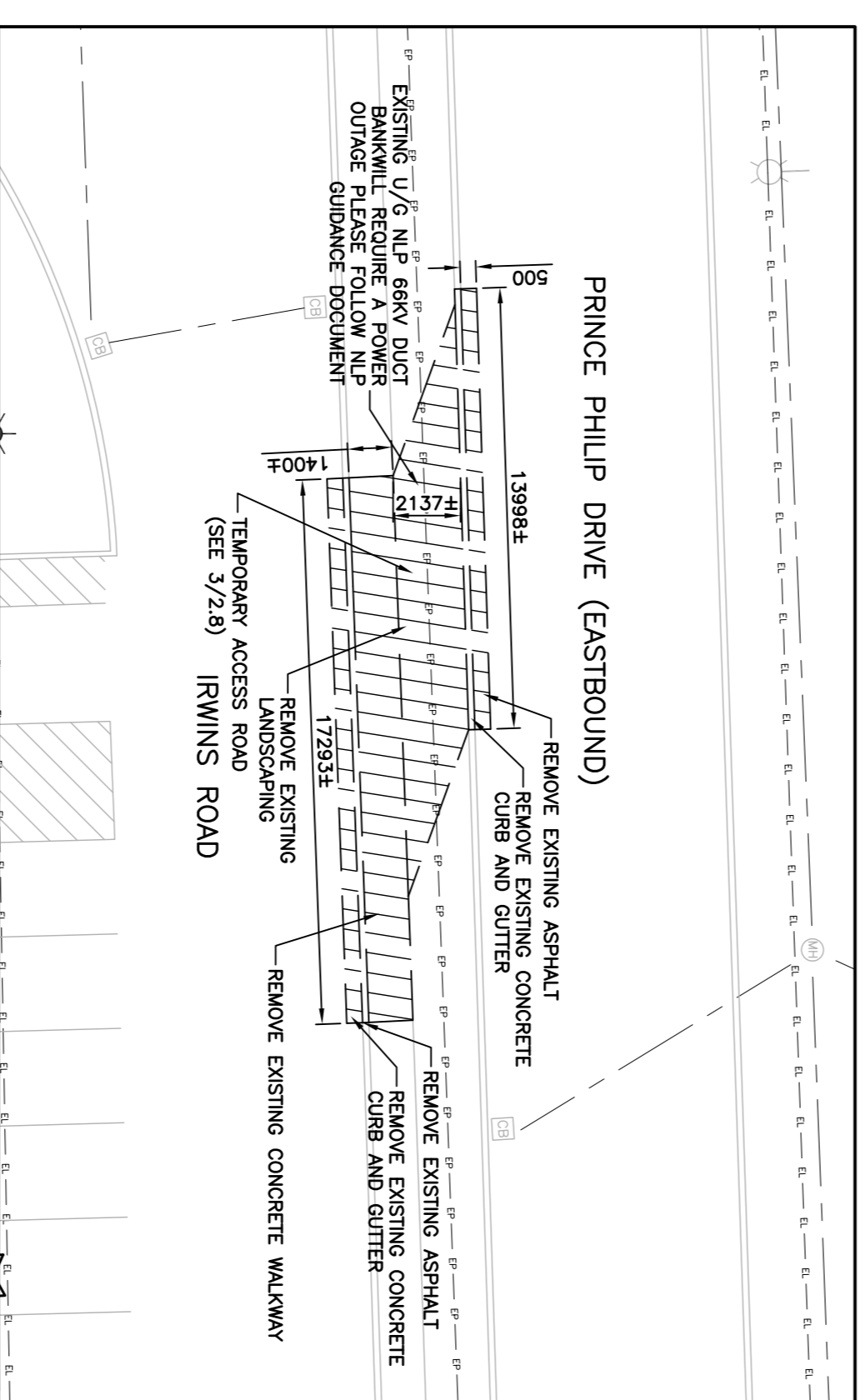
KERWIN PLACE DEMOLITION SITE PLAN (PRICE 'C')

C-14



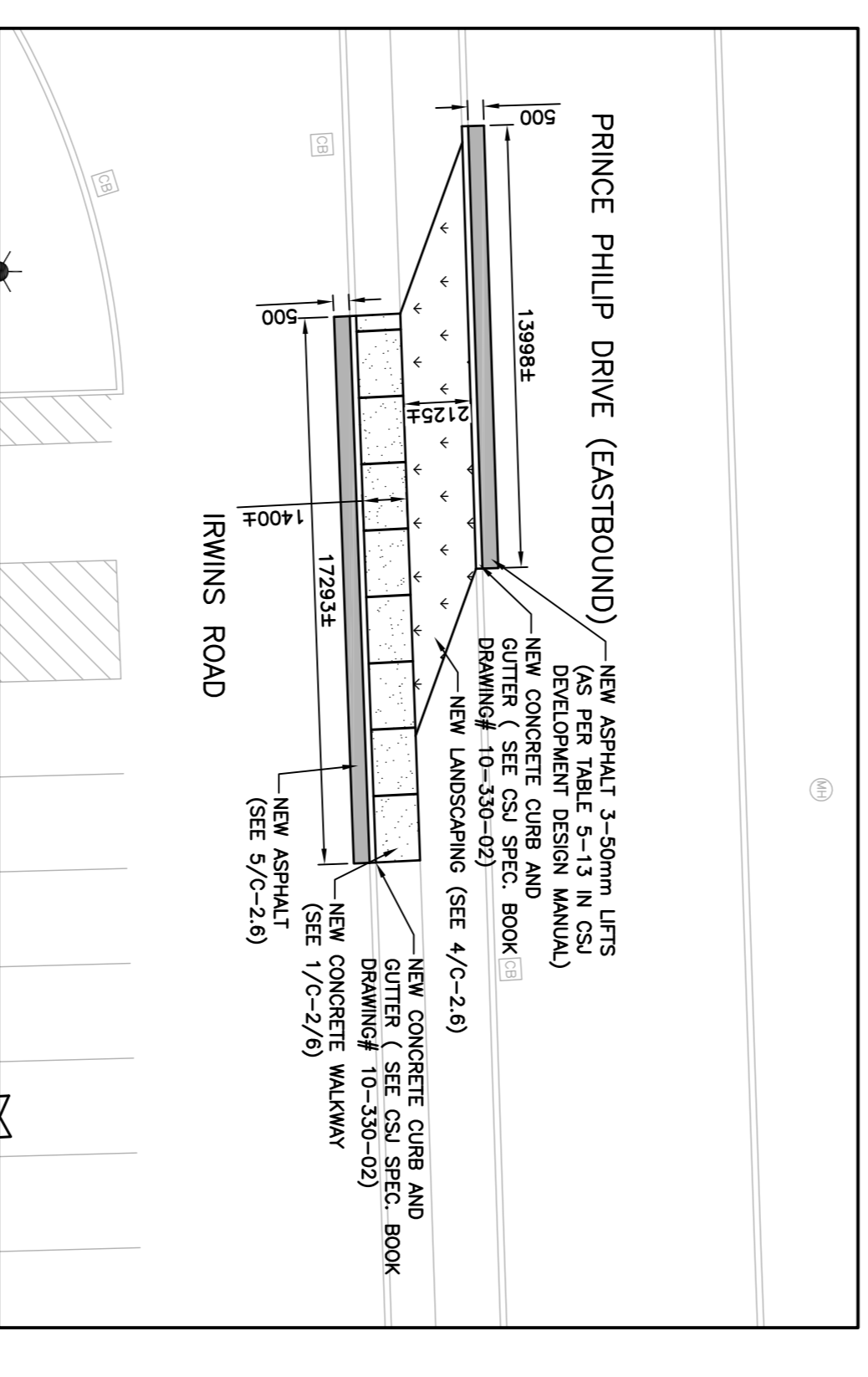
KERWIN PLACE NEW SITE PLAN (PRICE 'C')

C-14



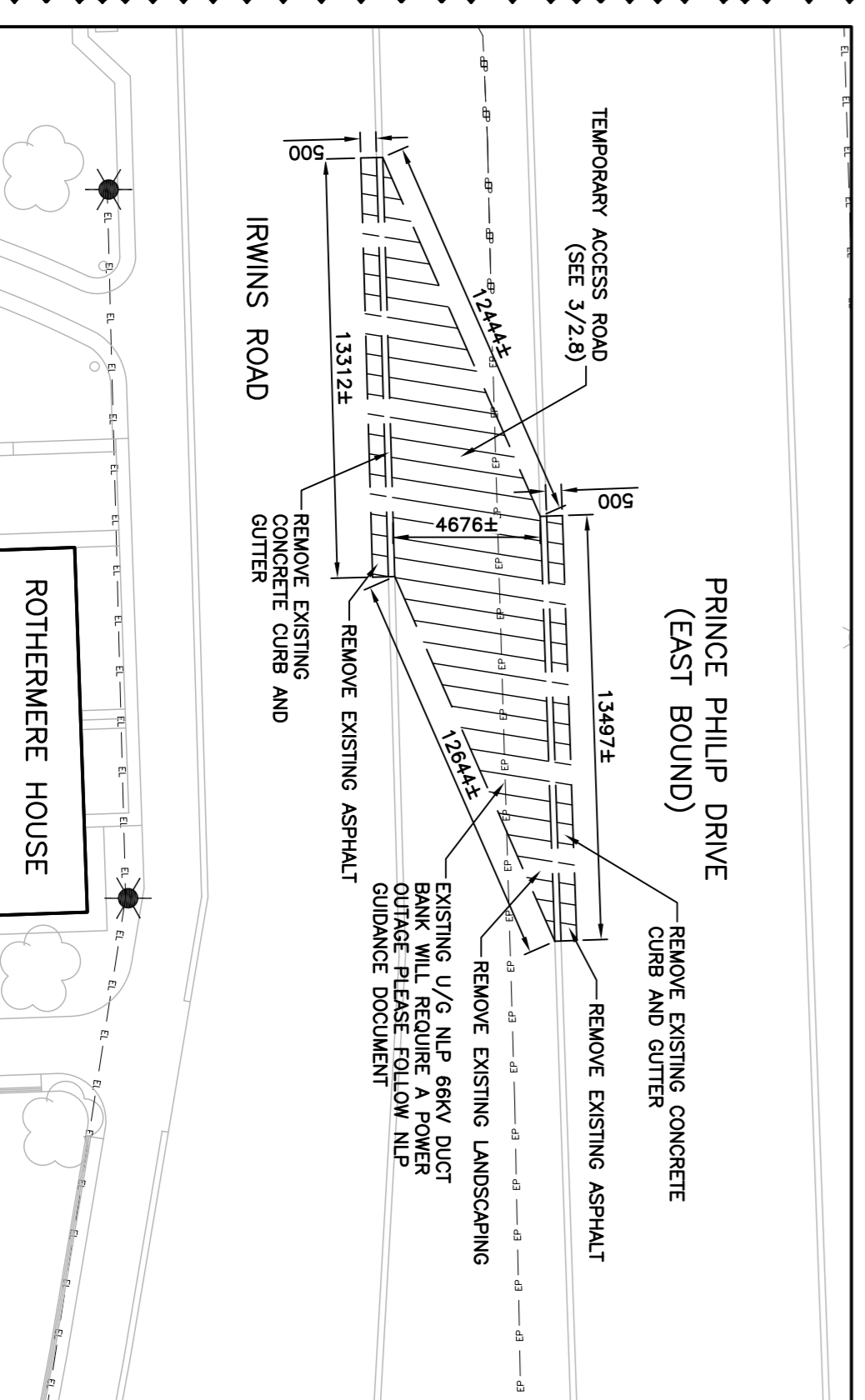
TEMPORARY ACCESS DEMOLITION SITE PLAN (PRICE 'B')

C-14



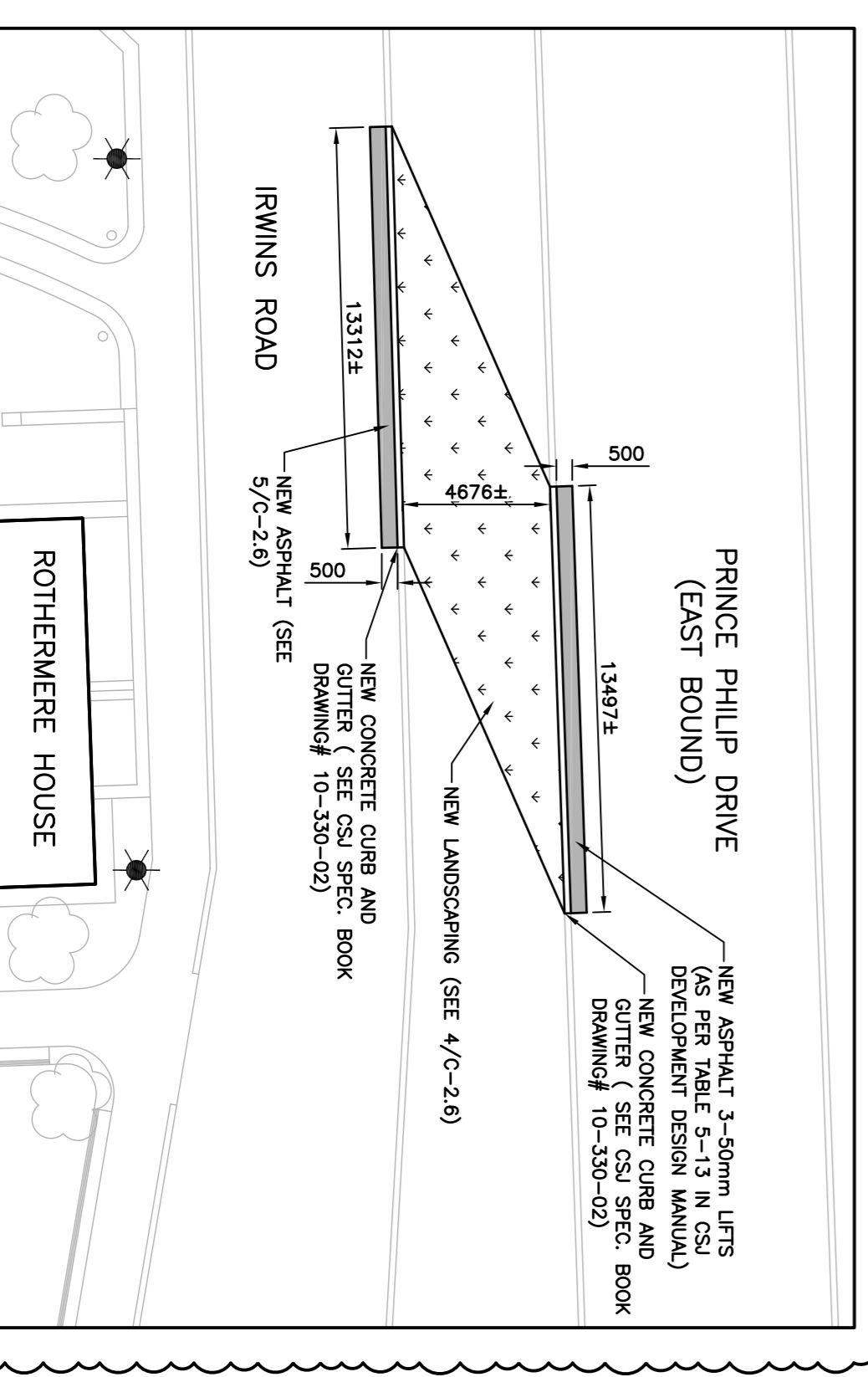
TEMPORARY ACCESS REINSTATEMENT SITE PLAN (PRICE 'B')

C-14



TEMPORARY ACCESS DEMOLITION SITE PLAN (PRICE 'B')

C-14



TEMPORARY ACCESS REINSTATEMENT SITE PLAN (PRICE 'B')

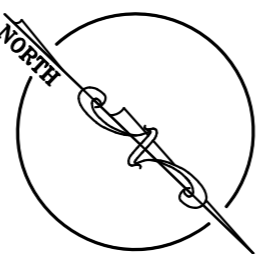
C-14

A - DETAIL
B - LOCATION/DRAWING No.
C - DRAWING No.

No.	REVISION	DATE
R1	ISSUED FOR ADDENDUM#3	APR. 2026
RO	ISSUED FOR ADDENDUM#2	APR. 2026

GENERAL NOTES

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- CONTRACTOR SHALL SUBMIT A TRAFFIC MANAGEMENT PLAN FOR THE TEMPORARY CLOSURES OF PORTIONS OF IRWINS ROAD AND PRINCE PHILIP DRIVE (EAST BOUND) TO THE CITY OF ST. JOHN'S FOR REVIEW AND APPROVAL AND THE CLOSURES AND DETOURS WILL BE REQUIRED TO FACILITATE THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ALL TEMPORARY SIGNALS TO FACILITATE THE ROAD CLOSURES AND DETOURS, AS REQUIRED BY MEMORIAL UNIVERSITY FACILITIES MANAGEMENT AND THE CITY OF ST. JOHN'S.
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MEMORIAL UNIVERSITY
FACILITIES MANAGEMENT

This University was created by the people of Newfoundland as a memorial to the fallen in the great war, 1914-1918. 1928-1942. Built in freedom of learning. New ideas new resources might and the inspiration.

Department of Planning, Arts & Administration Building, St. John's Campus

PROJECT NAME:
ACADEMIC TUNNELS
RE-WATERPROOFING CP-1
Project #: TA-511-25

DRAWING TITLE:
PRINCE PHILIP DRIVE AND
KERWIN PLACE DEMOLITION
AND NEW SITE PLANS
(PRICE 'B' AND 'C')

DESIGNED: S.C. DRAWN: S.C.

REVIEWED: H.H./C.B. APPROVED: H.H./C.B.

SCALE: AS SHOWN DATE: APRIL, 2026

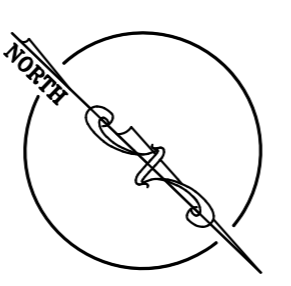
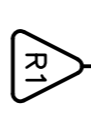
PROJECT No. TA-511-25 DRAWING No. C-1.4


A - DETAIL
 B - LOCATION/DRAWING No.
 C - DRAWING No.

No.	REVISION	DATE
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RO	ISSUED FOR ADDENDUM#2	APR. 2026

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FACILITIES MANAGEMENT

This University was created by the people of Newfoundland as a memorial to the fallen in the great war, 1914-1918, 1939-1945, both in freedom of thought and in the cause of justice and the rights of the oppressed.

- Dominion Station, Arts & Administration Building, St. John's Campus

PROJECT NAME:
 ACADEMIC TUNNELS
 RE-WATERPROOFING CP-1
 Project #: TA-511-25

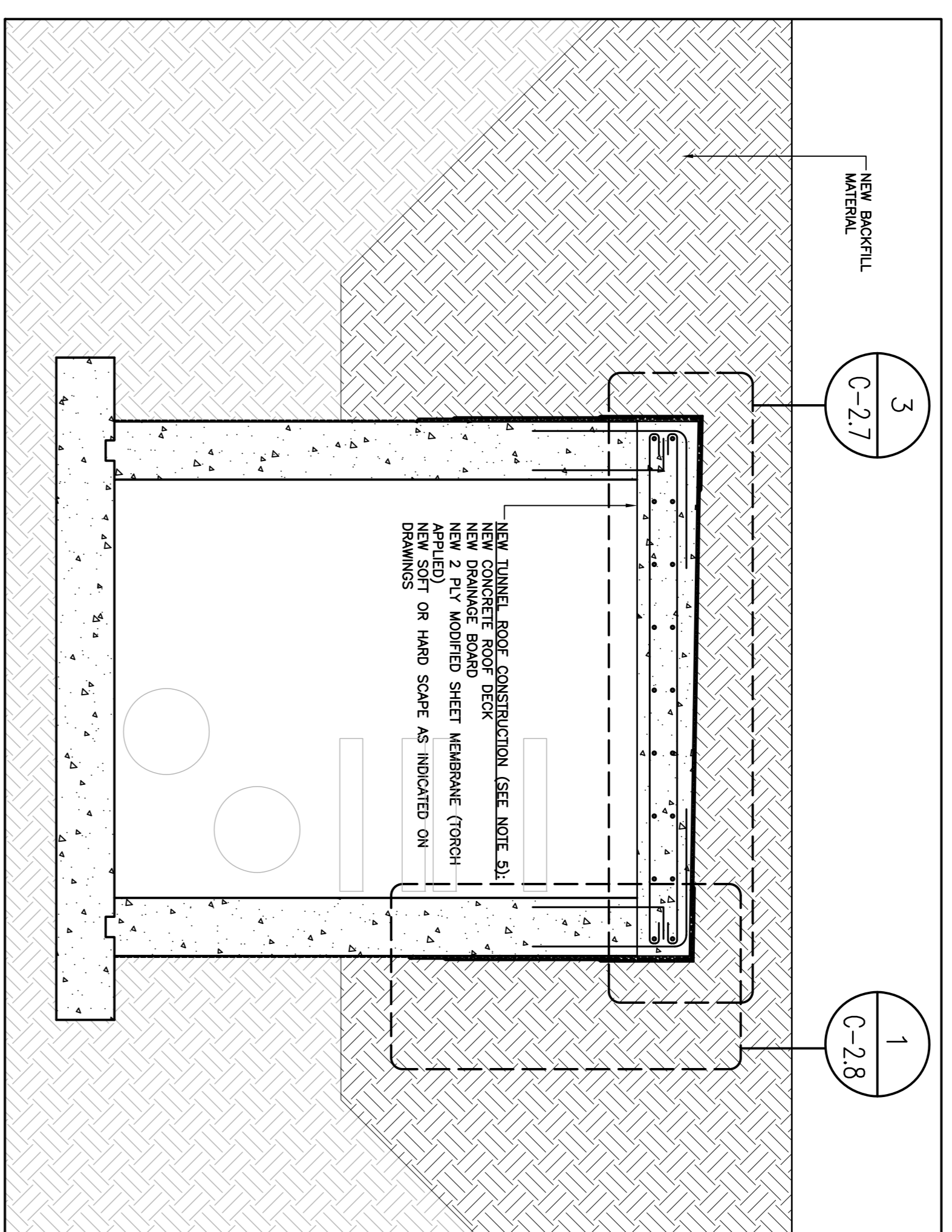
SECTIONS AND DETAILS

DESIGNED:	DRAWN:
S.C	S.C

REVIEWED:	APPROVED:
H.H/C.B	H.H/C.B

SCALE:	DATE:
AS SHOWN	APRIL, 2026

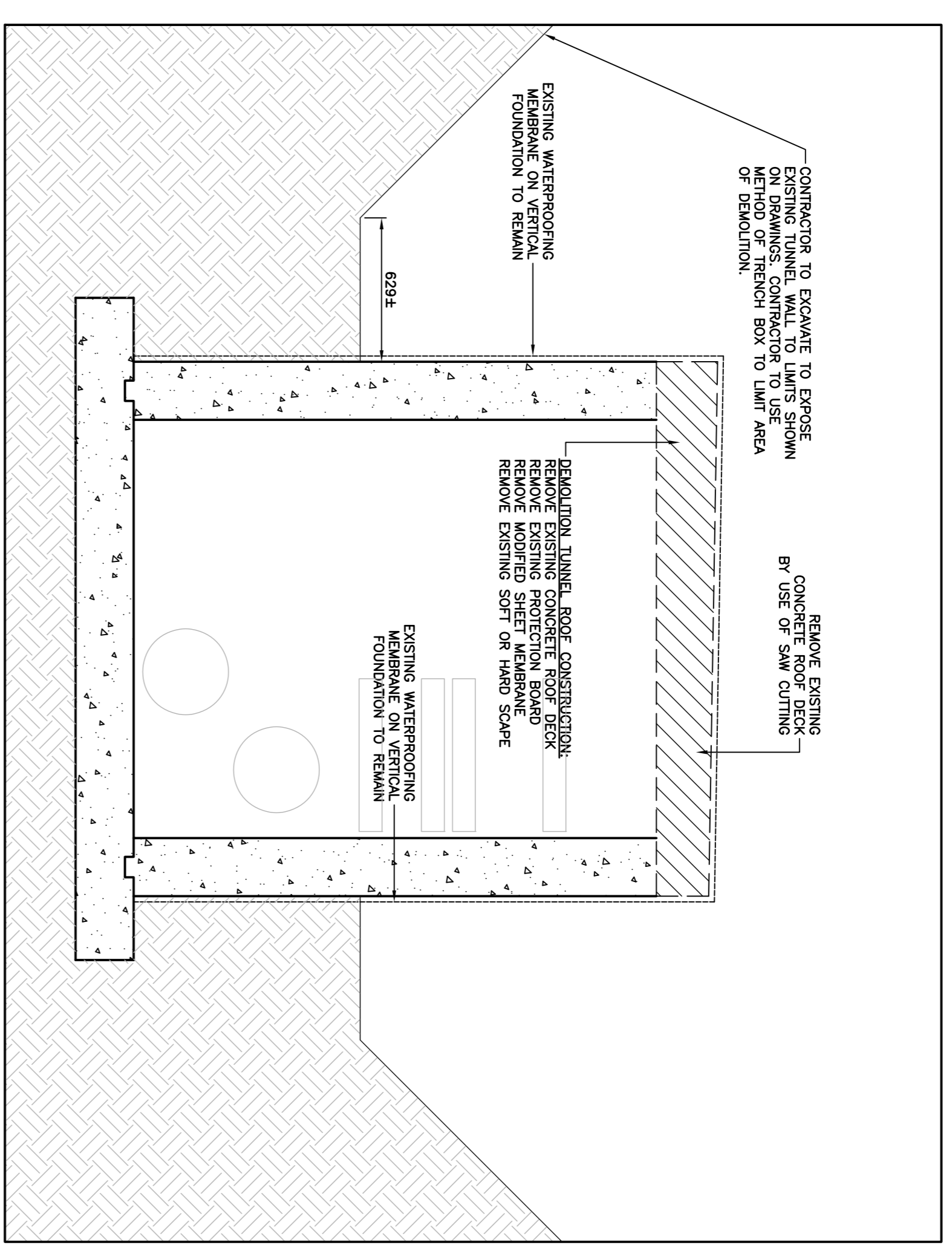
PROJECT No.	DRAWING No.
TA-511-25	C-2.7



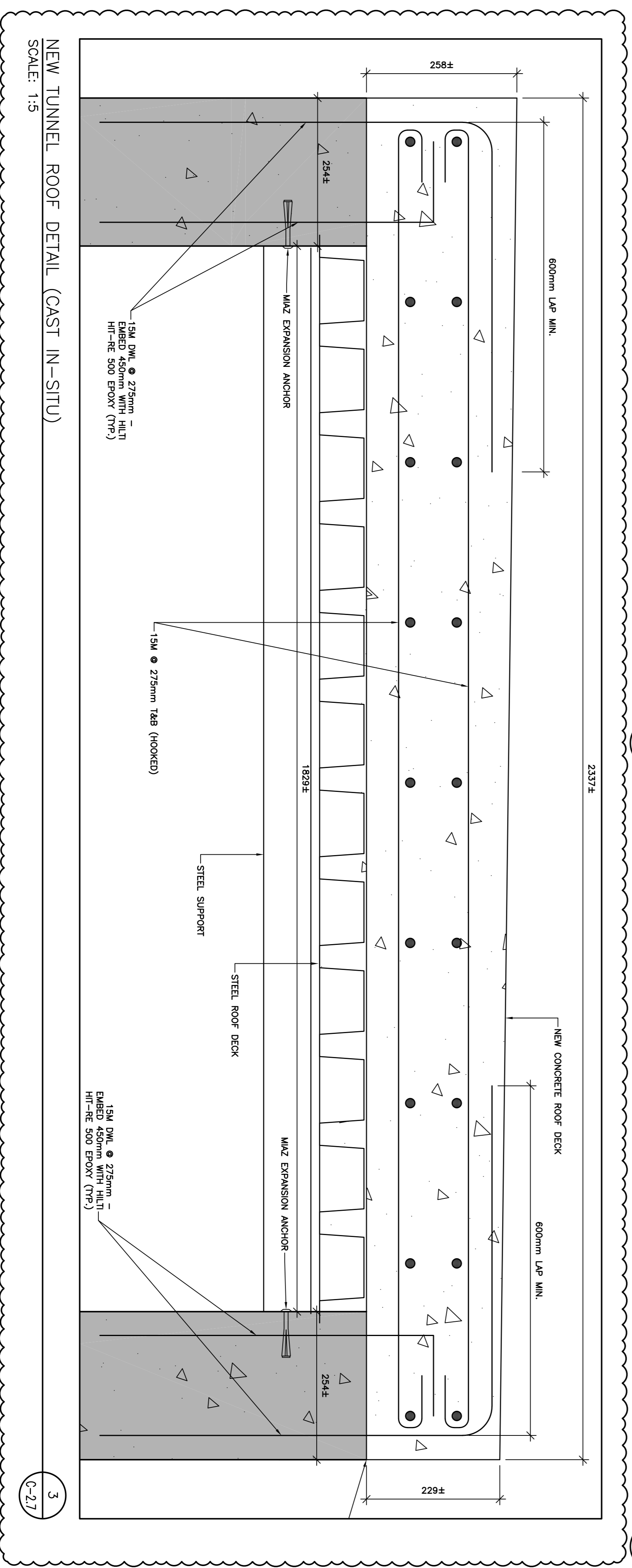
1
C-2.7

NEW TUNNEL SECTION
SCALE: 1:20

2
C-2.7



REMOVAL TUNNEL SECTION
SCALE: 1:20



NEW TUNNEL ROOF DETAIL (CAST IN-SITU)
SCALE: 1:5

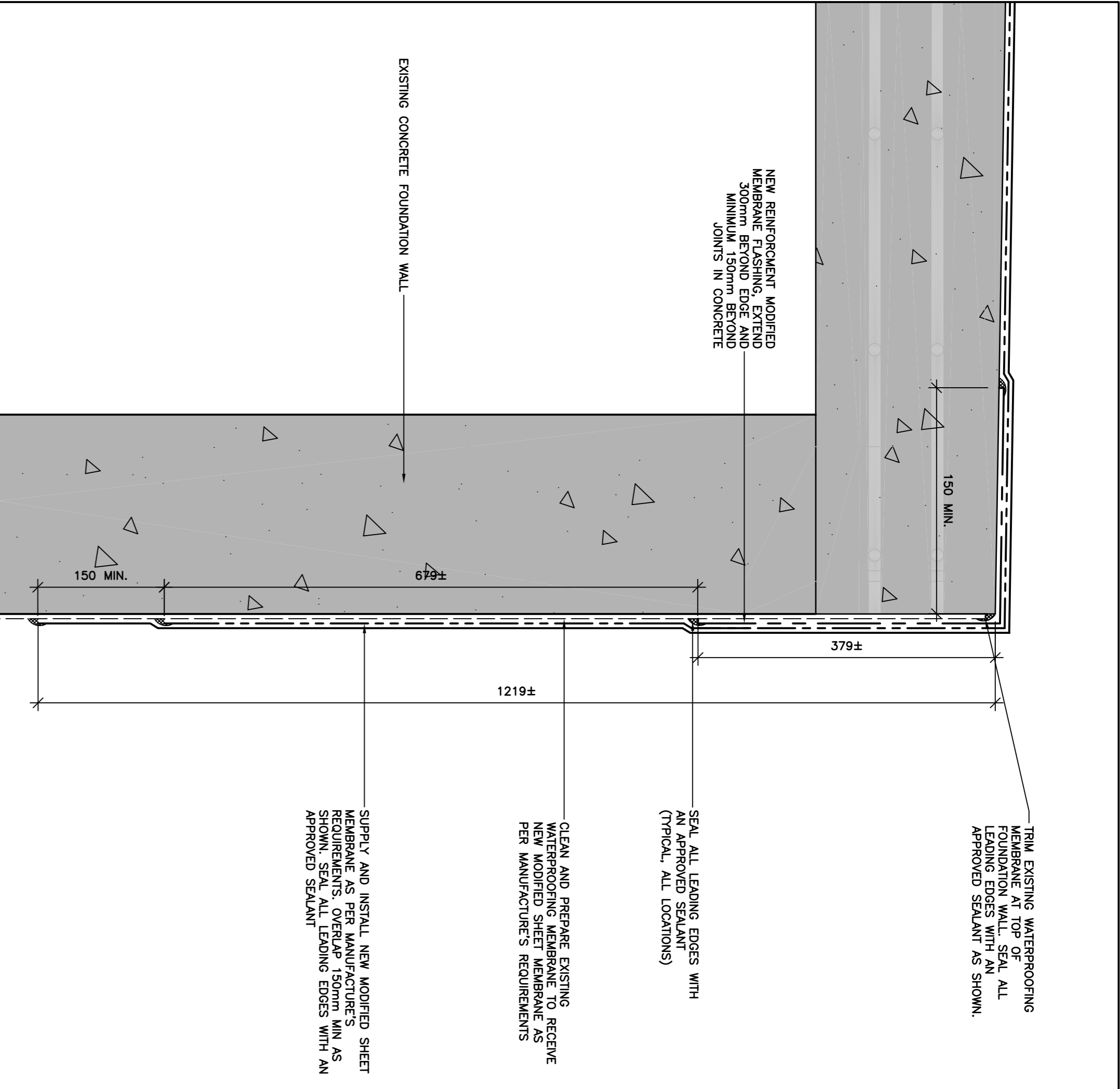
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C-2.7

A - DETAIL
B - LOCATION/DRAWING No.
C - DRAWING No.

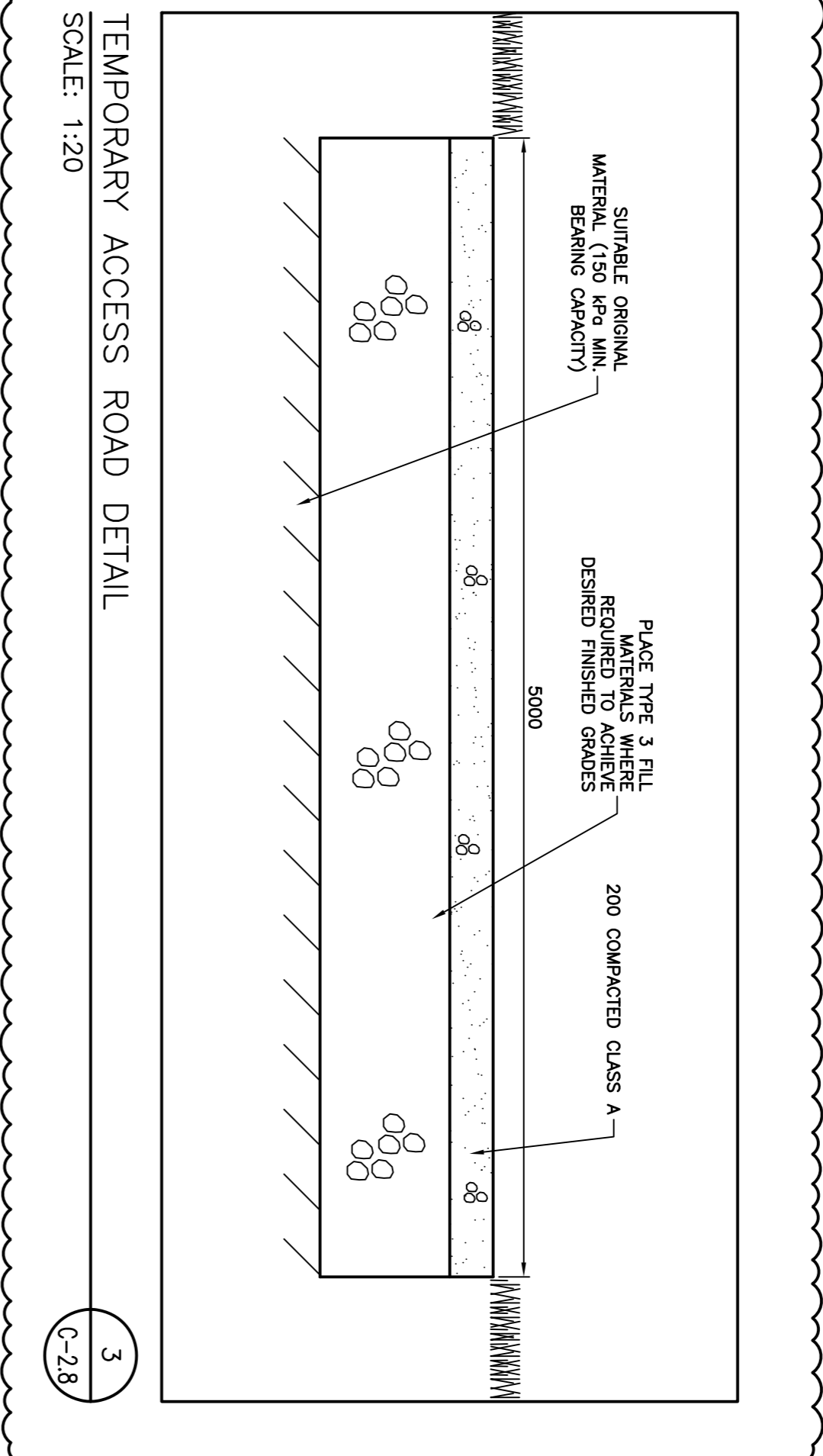
No.	REVISION	DATE
R1	ISSUED FOR ADDENDUM#3	APR. 2026
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GENERAL NOTES

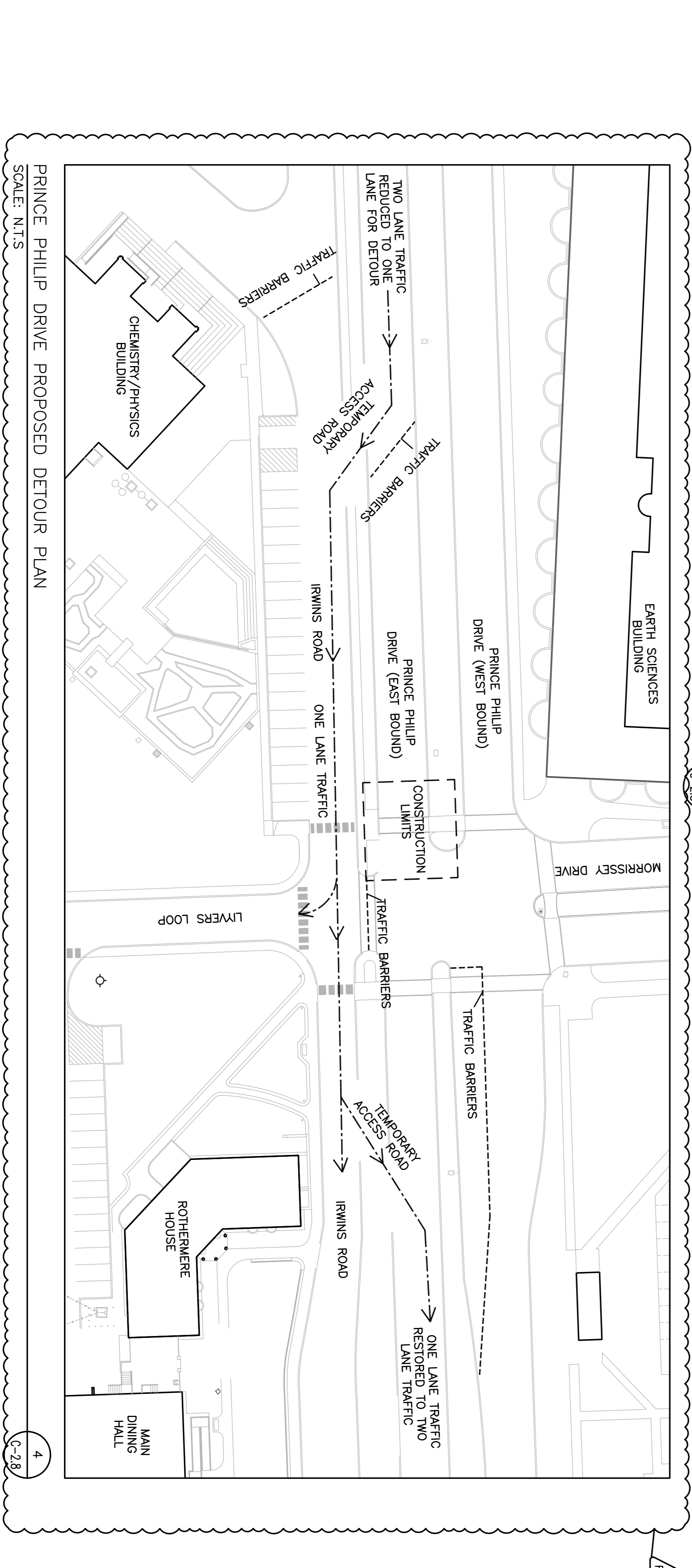
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NEW WATERPROOF MEMBRANE: TYPICAL ROOF WALL INTERSECTION DETAIL
SCALE: 1:5

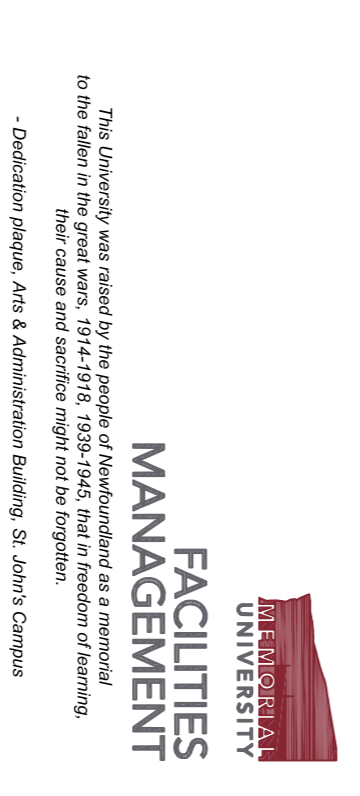


TEMPORARY ACCESS ROAD DETAIL
SCALE: 1:20

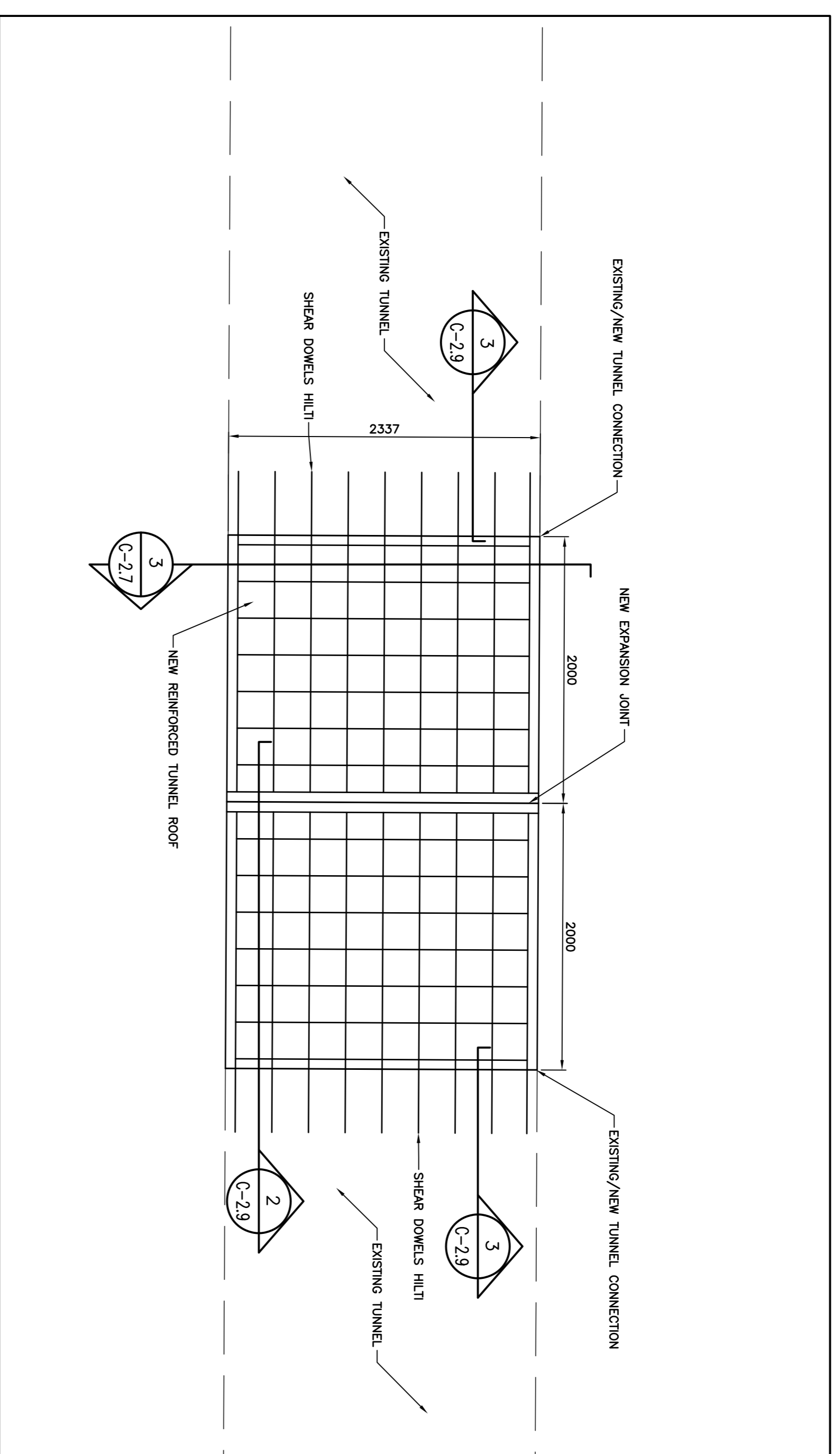


PRINCE PHILIP DRIVE PROPOSED DETOUR PLAN
SCALE: N.T.S.

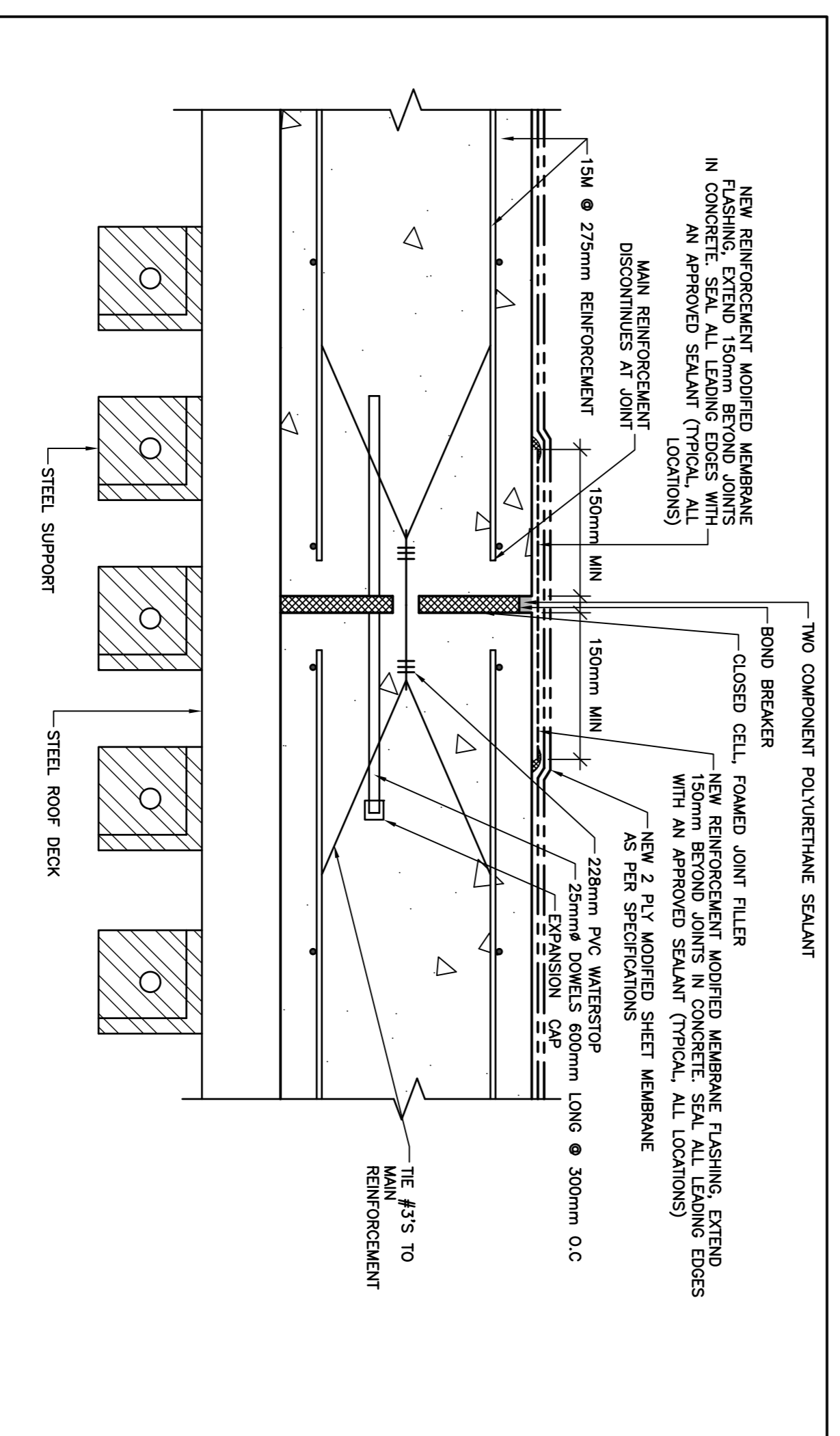
<p>PROJECT NAME: ACADEMIC TUNNELS RE-WATERPROOFING CP-1 Project #: TA-511-25</p>	
<p>DRAWING TITLE: SECTIONS AND DETAILS</p>	
DESIGNED: S.C	DRAWN: S.C
REVIEWED: H.H/C.B	APPROVED: H.H/C.B
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.8



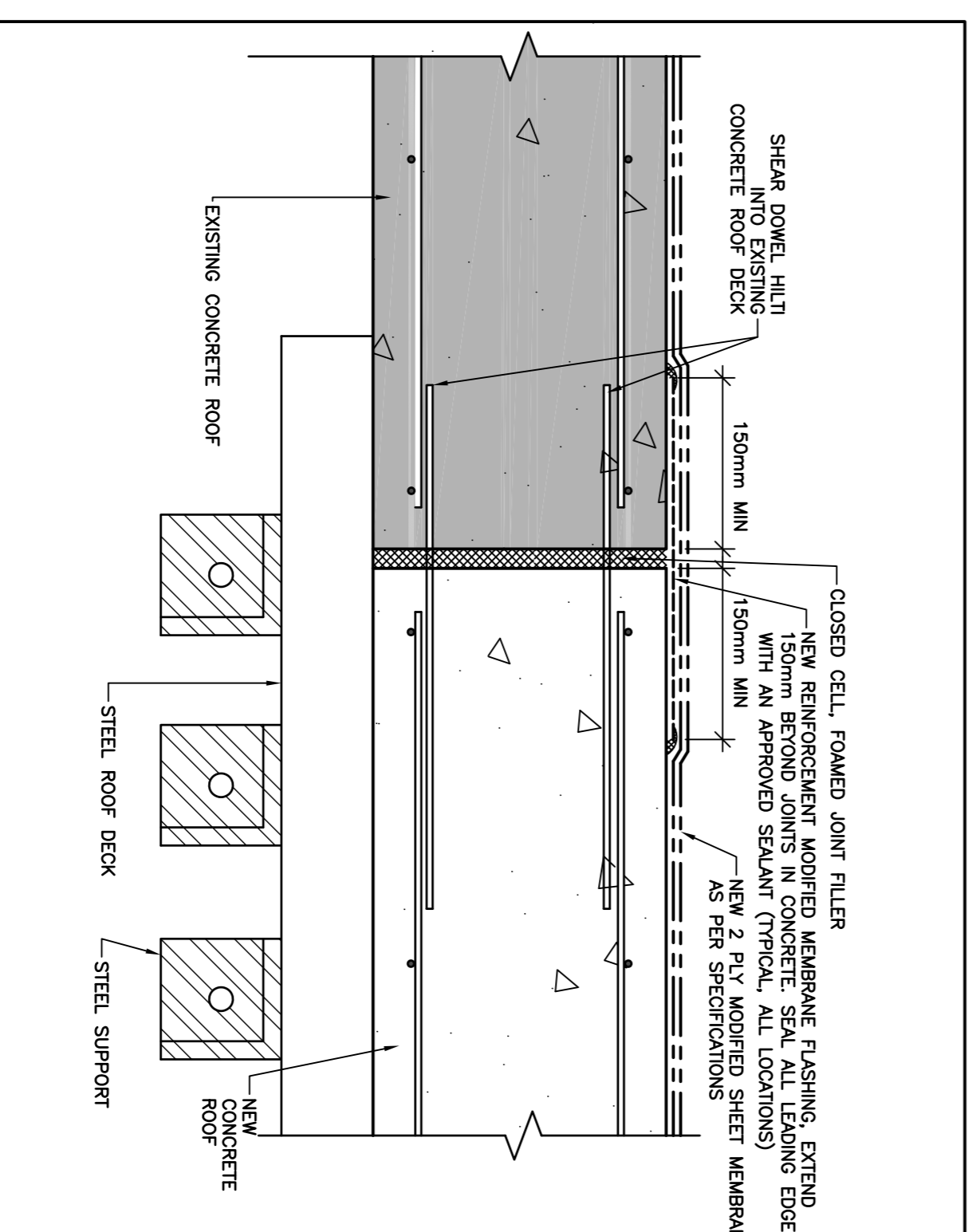
This University was created by the people of Newfoundland as a memorial to the fallen in the great war, 1914-1918. 1929-1942. Read the history of the University. <http://www.mun.ca/facilities>



TYPICAL NEW TUNNEL ROOF REINFORCEMENT PLAN
SCALE: 1:30



EXPANSION JOINT DETAIL
SCALE: 1:15

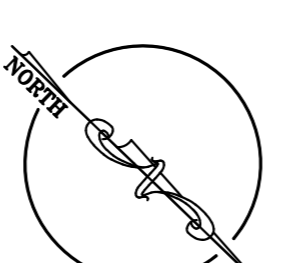



EXISTING/NEW TUNNEL ROOF CONNECTION
SCALE: 1:15

No.	REVISION	DATE	A
			B
			C
RO	ISSUED FOR ADDENDUM#3	APR, 2026	A

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- CONTRACTOR IS RESPONSIBLE FOR ALL PUBLIC NOTICES RELATED TO THE ROAD CLOSURES AND DETOURS.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS OF THE CITY OF ST. JOHN'S SPECIFICATIONS BOOK LATEST EDITION AND DESIGN DEVELOPMENT MANUAL.
- CONTRACTOR IS RESPONSIBLE TO KEEP THE TUNNEL AND THE SERVICES INSIDE PROTECTED AT ALL TIMES FROM ALL EXTERIOR CONDITIONS INCLUDING RAIN, SNOW, DEBRIS, TRAFFIC, ETC. SPECIAL PRECAUTIONS TO BE TAKEN DURING SAW CUTTING, REMOVAL, RECASTING OF THE SLAB AND ANY DURATION IN BETWEEN.




MEMORIAL UNIVERSITY
FACILITIES MANAGEMENT

PROJECT NAME:
**ACADEMIC TUNNELS
 RE-WATERPROOFING CP-1**
 Project #: TA-511-25

DRAWING TITLE:
SECTIONS AND DETAILS

DESIGNED: S.C	DRAWN: S.C
REVIEWED: H.H/C.B	APPROVED: H.H/C.B
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.9

PART 1 - ADDENDUM

1.1 TITLE

- .1 This Addendum shall be known as:

Addendum 2
TFM-029-26 – TA-511-25 ACADEMIC TUNNELS RE-WATERPROOFING CP-1

- .2 The Date of the Addendum is Tuesday, April 28, 2026

1.2 PRECEDENCE

- .1 This amendment to the bid documents is effective immediately.
- .2 This Addendum shall form an integral part of the original bid documents and is to be read in conjunction therewith.
- .3 The Addendum shall take precedence over previously issued bid documents with which it may prove to be at variance.

1.3 GENERAL

- .1 The General Conditions shall govern all phases of the Work covered by this Addendum.
- .2 Acknowledge receipt of this addendum in the Tender and Acceptance form.

1.4 PURPOSE

- .1 The purpose of the Addendum is to inform bidders of the changes, deletions and additions to be added to the bid documents.

1.5 CHANGES TO DRAWINGS

- .1 Full Drawing Package Re-Issued
1. Addition of "Price A", "Price B" and "Price C" on Cover Page, Location Plan (C-1.0) and title blocks.
 2. Location Plan now includes locations for the scope of work associated with Price B and Price C.
 3. Addition of new drawing sections and details on sheets C-1.4, C-2.7 and C-2.8. These drawings are associated with the Price B and Price C scope of work.

1.6 CHANGES TO SPECIFICATION

.1 Modification to Appendix C1 – Pricing Form to reflect the addition of Pricing A, B and C.

.2 SECTION 01 10 00

1.4 Work Covered by Contract Documents

.2 Work associated with Price A, Price B and Price C

- .1 Price A – This scope of work pertains to the majority of the work included in this package. Price A includes the work associated with waterproofing the academic tunnels. The associated areas are illustrated in Drawings C-1.0, C-1.1, C-1.2, and C-1.3.
- .2 Price B – This scope of work pertains to the structural repairs and waterproofing of a section of the utility tunnels near the Prince Phillip Drive and Liyvers Loop intersection. The associated areas are illustrated in Drawings C-1.0 and C-1.4.
- .3 Price C – This scope of work pertains to the structural repairs and waterproofing of a section of the utility tunnels near Kerwin Place. The associated areas are illustrated in Drawings C-1.0 and C-1.4.
- .4 Note: Price B and/or Price C will only be awarded in addition to Price A. There is no intent to award Price B and/or C only.

1.7 QUESTIONS AND RESPONSES

N/A

END OF ADDENDUM

APPENDIX C1 – PRICING FORM

1. INSTRUCTIONS ON HOW TO COMPLETE THE PRICING FORM

- Rates must be provided in Canadian Dollars
- Rates quoted by the bidder must be all-inclusive and must include all labor and material costs, all travel and carriage costs, all insurance costs, all costs of delivery to the Owner, all costs of installation and set-up, including any pre-delivery inspection charges, and all other overhead, including any fees or other charges required by law
- Owner: Having carefully examined the site and all conditions affecting the proposed work as well as the Bid Documents including the Drawings and Specifications, all Addenda and the Instructions to bidders, I/We, the undersigned, hereby offer to furnish all necessary labour, materials, superintendence, plant, tools, equipment, etc., required to complete all work requisite and necessary for the proper execution of this Contract, expeditiously and in the satisfactory manner and accept in full payment therefore a stipulated sum of:

The scope of work for Price A, Price B and Price C is outlined in the contract documents - see specification section 01 11 00 Summary of Works. The Owner reserves the right to delete any or all parts of this tender and award individual and/or combined parts.		
Contract Bid (HST Excluded)		
Price A: Subtotal		HST EXCLUDED
Price B: Subtotal		HST EXCLUDED
Price C: Subtotal		HST EXCLUDED
Price D: Total: [\$(A+B)]		HST EXCLUDED
Price E: Total: [\$(A+C)]		HST EXCLUDED
Price F: Total: [\$(A+B+C)]		HST EXCLUDED

I/We agree to commence work within two (2) weeks after the acceptance of my/our Bid and complete the work in _____ weeks from the acceptance of the Bid and to coordinate the scheduling of our work with that of all Subcontractors working on the Project. The time of completion indicated herein is required and will be a significant factor in assessing bids.

2. THE DELIVERABLES:

TA-511-25:Academic Tunnels Re-Waterproofing CP-1
as per specifications listed in Appendix A

3. MANDATORY SUBMISSION REQUIREMENTS

(a) Submission Form (Appendix B)

Each bid must include a Submission Form (Appendix B) completed and signed by an authorized representative of the bidder.

(b) Each bid must include Pricing Form (Appendix C1) as per instructions on form.

(c) Where Appendix C2 and C3 are required, they must be included in bid submission.

2GENERAL

1.1 RELATED DOCUMENTS

- .1 Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- .1 Types of items described in this Section:
 - .1 Project information.
 - .2 Work covered by Contract Documents.
 - .3 Phased construction.
 - .4 Work by Owner.
 - .5 Work under separate contracts.
 - .6 Future work.
 - .7 Purchase contracts.
 - .8 Owner-furnished products.
 - .9 Contractor-furnished, Owner-installed products.
 - .10 Access to site.
 - .11 Coordination with occupants.
 - .12 Work restrictions.
 - .13 Specification and drawing conventions.
- .2 Related Section:
 - .1 Division 01 Section *Temporary Facilities and Controls* for limitations and procedures governing temporary use of Owner's facilities.

1.3 PROJECT INFORMATION

- .1 Project Identification: TA-511-25, Academic Tunnels Re-Waterproofing CP-1.
 - .1 Project Location: Main Campus, Memorial University, St. John's, NL.
- .2 Owner: Memorial University of Newfoundland
 - .1 Owner's Representative: Facilities Management
- .3 Work associated with Price A, Price B and Price C
 - .1 Price A – This scope of work pertains to the majority of the work included in this package. Price A includes the work associated with waterproofing the academic tunnels. The associated areas are illustrated in Drawings C-1.0, C-1.1, C-1.2, and C-1.3.
 - .2 Price B – This scope of work pertains to the structural repairs and waterproofing of a section of the utility tunnels near the Prince Phillip Drive and Liyvers Loop intersection. The associated areas are illustrated in Drawings C-1.0 and C-1.4.
 - .3 Price C – This scope of work pertains to the structural repairs and waterproofing of a section of the utility tunnels near Kerwin Place. The associated areas are illustrated in Drawings C-1.0 and C-1.4.
 - .4 Note: Price B and/or Price C will only be awarded in addition to Price A. There is no intent to award Price B and/or C only.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- .1 The Work of the Project is defined by the Contract Documents and consists of the following:

.1 Demolition and removals, excavation, placement of fill and granular materials, concrete works, asphalt placement, landscaping, re-waterproofing of existing underground academic tunnels, and other miscellaneous work identified herein and on the drawings.

.2 Work to be substantially completed on or before August 28th 2026

.2 Type of Contract

.1 Project will be constructed under a single lump sum contract.

1.5 PHASED CONSTRUCTION

.1 The Work shall be conducted in various phases to minimize disruption to occupants of the buildings adjacent to the work area. Listed below are considerations related to the phasing of work. Upon award, the contractor will coordinate with the owner to determine the phasing:

.1 To minimize disruption to building occupants, standard work hours are anticipated to be 07:00 - 17:00, with work outside these hours to be completed only upon the owner's approval.

.2 The Contractor shall submit a detailed construction schedule that minimizes disruption to University operations. Work shall be phased to ensure minimal impact on building occupants and pedestrian throughfares. The Contractor acknowledges that, at the Owner's discretion, certain areas within the Scope of Work may be required to be completed in whole or in part prior to the commencement of work in other areas. The Contractor shall accommodate such sequencing and phasing requirements as directed by the Owner.

.3 In adherence to Memorial's Zero Energy Isolation Policy, excavation within the proximity of electrical and pressurized piping (ie, domestic water) will require de-energization. Excavation must be planned with the owner to minimize disruption to the Memorial's operations.

.4 All excavation will require a dig permit as shown in Appendix (E). This permit requires MUN Electrical to conduct a ground scan to identify underground infrastructure. The contractor will coordinate their excavation activities with the owner and MUN O&M staff to ensure permitting is completed before excavation.

.2 Before commencing work on each phase, submit an updated copy of the Contractor's construction schedule showing the sequence, commencement and completion dates.

1.6 WORK BY OWNER

.1 General: Cooperate fully with Owner so work may be carried out smoothly, without interfering with or delaying work under this Contract or work by Owner. Coordinate the Work of this Contract with work performed by Owner.

.2 Preceding Work: Owner will perform the following construction operations at the project site. Those operations are scheduled to be substantially complete before work under this Contract begins.

.1 No work planned.

.3 Concurrent Work: Owner will perform the following construction operations at the project site. Those operations will be conducted simultaneously with work under this Contract.

.1 No work planned.

.4 Subsequent Work: Owner will perform the following additional work at site after Substantial Completion. Completion of that work will depend on successful completion of preparatory work under this Contract.

.1 No work planned.

1.7 WORK UNDER SEPARATE CONTRACTS

.1 General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts.

.2 Preceding Work: Owner has awarded / will award separate contract(s) for the following construction operations at Project site. Those operations are scheduled to be substantially complete before work under this Contract begins.

.1 No preceding work planned.

.3 Concurrent Work: Owner has awarded / will award separate contract(s) for the following construction operations at or around the Project site. Those operations will be conducted simultaneously with work under this Contract.

.1 Academic Tunnel Re-Waterproofing – CP-2 (Patron College Tunnels)

.2 Memorial University Annual Grounds Package

The Contractor acknowledges and agrees that it may be awarded or be performing other contracts for the University concurrently with the Work. The Contractor shall not rely on the existence of any such concurrent work as justification for failure to meet the requirements of this Contract. The Contractor shall provide and maintain all required labour, supervision, equipment, and resources necessary to perform the Work in full compliance with the Contract Documents, schedule, and quality standards, independent of any other contractual obligations to the University.

.4 Subsequent Work: Owner has awarded / will award separate contract(s) for the following additional work to be performed at site following Substantial Completion. Completion of that work will depend on successful completion of preparatory work under this Contract.

.1 No subsequent work planned.

1.8 FUTURE WORK

.1 The Contract Documents include requirements that will allow Owner to carry out future work following completion of this Project; provide for the following future work:

.1 No future work planned.

1.9 PURCHASE CONTRACTS

.1 General: Owner has negotiated purchase contracts with suppliers of material and equipment to be incorporated into the Work. Owner will assign these purchase contracts to Contractor. Include costs for purchasing, receiving, handling, storage if required, and installation of material and equipment in the Contract Sum, unless otherwise noted.

.1 Contractor's responsibilities are the same as if Contractor had negotiated purchase contracts, including the responsibility to renegotiate purchase and to execute final purchasing agreements.

.2 Purchase Contracts Information:

.1 No purchase contracts apply to the Work.

1.10 OWNER-FURNISHED PRODUCTS

.1 Owner will furnish products indicated. The Work includes receiving, unloading, handling, storing, protecting, and installing Owner-furnished products and making building services connections as required.

- .2 Owner-Furnished Products:
 - .1 No Owner furnished products.
- 1.11 CONTRACTOR-FURNISHED, OWNER-INSTALLED PRODUCTS
 - .1 Contractor shall furnish products indicated. The Work includes unloading, handling, storing, and protecting Contractor-furnished products as directed and turning over to Owner at Project closeout.
 - .2 Contractor-Furnished, Owner-Installed Products:
 - .1 No Owner furnished and Owner supplied products..
- 1.12 ACCESS TO SITE
 - .1 Use of Site: Limit use of the Project site to work in areas indicated on project drawings. Do not disturb portions of the Project site beyond areas in which the Work is indicated.
 - .1 Where the Work involves site work, the contractor is responsible for limiting site disturbance. Disturbance or destruction of areas outside the project limits by the contractor must be reinstated to its original condition.
 - .2 Driveways, Walkways and Entrances: For Work involving renovations to an existing building or adjacent to other buildings, keep driveways and loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
 - .1 Schedule deliveries to minimize use of driveways and entrances by construction operations.
 - .2 Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
 - .3 A laydown area will be determined upon contract award
 - .2 Condition of Existing Building: Where the Work involves work on an existing building, maintain portions of the existing building affected by construction operations in a weather-tight condition throughout the construction period. Repair damage caused by construction operations.
- 1.13 COORDINATION WITH OCCUPANTS
 - .1 Partial Owner Occupancy: Owner will occupy the premises during the entire construction period, with the exception of areas under construction. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's operations.
 - .1 Coordinate the temporary closure of walkways and building exits with the owner as needed.
 - .2 Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities not associated with the scope of work. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
 - .3 Provide not less than 72 hours' notice to Owner for activities that will affect Owner's operations.
- 1.14 WORK RESTRICTIONS
 - .1 Work Restrictions, General: Comply with restrictions on construction operations.
 - .1 Comply with limitations on use of public streets and other requirements of authorities having jurisdiction.
 - .2 The contractor is required to use the appropriate equipment that ensures the existing tunnel and site infrastructure will not be damaged.
 - .2 On-Site Work Hours: Limit work in the existing building to normal business working hours of the Owner, Monday through Friday, except as otherwise indicated.
 - .1 Weekend Hours: When schedule requires.

- .2 Early Morning Hours: When the schedule requires and when the nature of work produces excess noise not acceptable to the owner.
 - .3 Hours for Utility Shutdowns: Provide the owner with 72 hours' notice.
 - .3 Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless coordinated with the owner:
 - .1 Notify Owner's Representative not less than two days in advance of proposed utility interruptions.
 - .2 Obtain the Owner's Representative's written permission before proceeding with utility interruptions.
 - .3 In the event of an unplanned utility service interruption due to the contractor, the contractor is required to provide temporary service until the utility is restored.
 - .4 Noise, Vibration, and Odours: For work in or near occupied facilities, coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy with Owner.
 - .1 Notify Owner's Representative not less than two days in advance of proposed disruptive operations.
 - .2 Obtain Owner's Representative's written permission before proceeding with disruptive operations.
 - .5 Controlled Substances: Use of tobacco products and other controlled substances on the Project site is not permitted.
 - .6 Employee Identification: Owner may provide identification tags for Contractor personnel working on the Project site. Require personnel to utilize identification tags at all times.
- 1.15 SPECIFICATION AND DRAWING CONVENTIONS
- .1 Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - .1 Imperative mood and streamlined language are generally used in the Specifications. The words *shall*, *shall be*, or *shall comply with*, depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - .2 Specification requirements are to be performed by Contractor unless specifically stated otherwise.
 - .2 Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
 - .3 Drawing Coordination: Requirements for materials and products identified on the Drawings are described in detail in the Specifications. One or more of the following are used on the Drawings to identify materials and products:
 - .1 Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
- 1.16 MISCELLANEOUS PROVISIONS
- .1 None.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

Memorial University of Newfoundland ACADEMIC TUNNELS RE-WATERPROOFING

CP-1

TA-511-25

ST. JOHN'S CAMPUS

APRIL 9, 2026

ISSUED FOR TENDER

LIST OF DRAWINGS

- C-1.0 - LOCATION PLAN
- C-1.1 - EDUCATION AND LIBRARY TO UNIVERSITY CENTER
DEMOLITION AND NEW SITE PLANS (PRICE 'A')
- C-1.2 - PHYSICAL EDUCATION TO ARTS AND ADMINISTRATION
AND SCIENCE TO ARTS AND ADMINISTRATION
DEMOLITION AND NEW SITE PLANS (PRICE 'A')
- C-1.3 - ARTS AND ADMINISTRATION TO MATH DEMOLITION AND
NEW SITE PLANS (PRICE 'A')
- C-1.4 - PRINCE PHILIP DRIVE AND KERWIN PLACE DEMOLITION
AND NEW SITE PLANS (PRICE 'B' AND 'C')
- C-2.0 - SECTIONS AND DETAILS
- C-2.1 - SECTIONS AND DETAILS
- C-2.2 - SECTIONS AND DETAILS
- C-2.3 - SECTIONS AND DETAILS
- C-2.4 - SECTIONS AND DETAILS
- C-2.5 - SECTIONS AND DETAILS
- C-2.6 - SECTIONS AND DETAILS
- C-2.7 - SECTIONS AND DETAILS
- C-2.8 - SECTIONS AND DETAILS

TA-511-25 CP-1 ISSUED FOR TENDER

*This University was raised by the people of Newfoundland as a memorial
to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning,
their cause and sacrifice might not be forgotten.*

- Dedication plaque, Arts & Administration Building, St. John's Campus



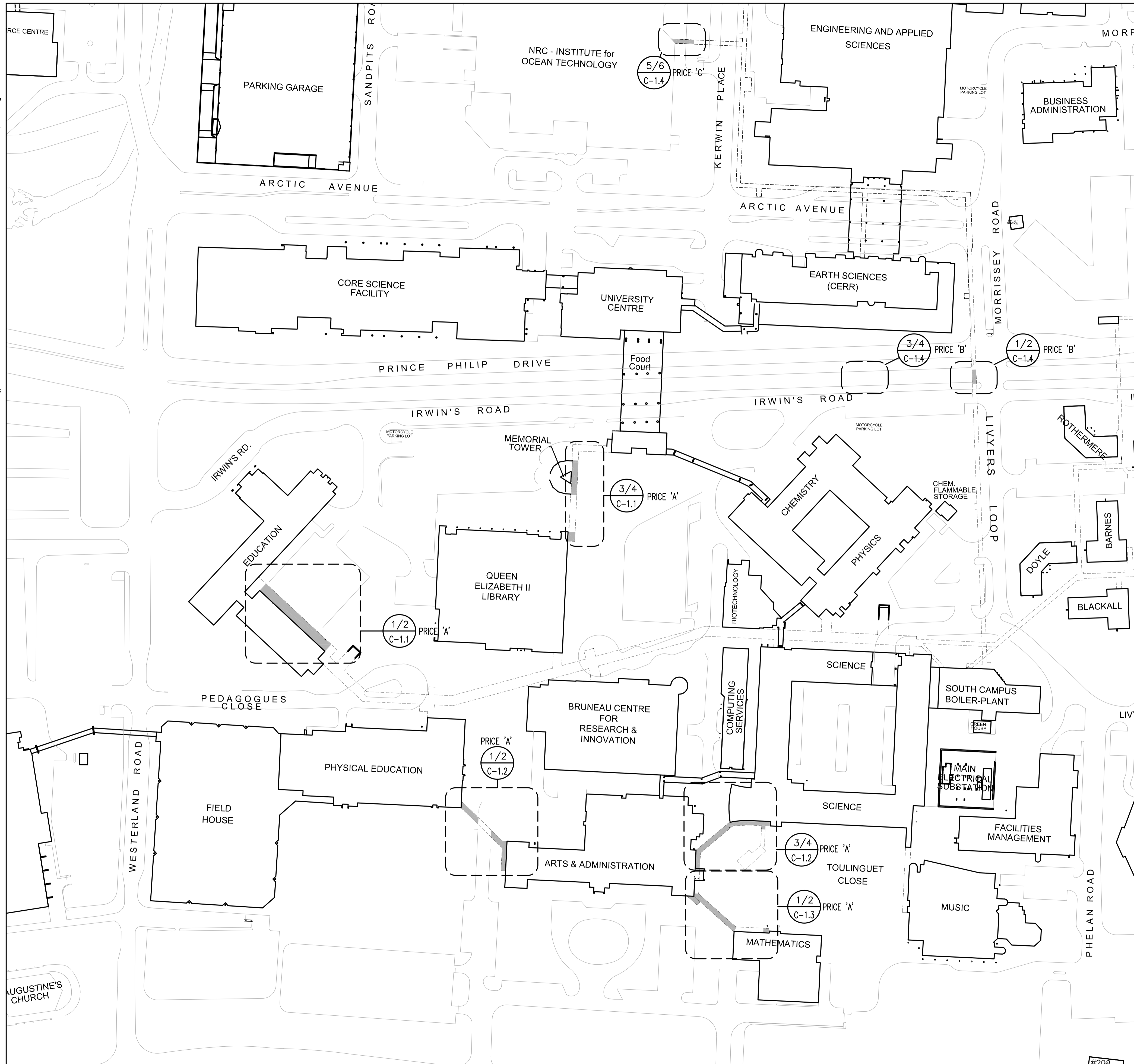
**FACILITIES
MANAGEMENT**

CONSTRUCTION NOTES (APPLIES TO ALL DRAWINGS)

1. ALL WORK TO BE PERFORMED TO IN ACCORDANCE WITH MEMORIAL UNIVERSITY OF NEWFOUNDLAND SPECIFICATIONS, AND CITY OF ST. JOHN'S CONSTRUCTION SPECIFICATIONS.
2. COORDINATE ALL DEMOLITION WITH OWNER'S REPRESENTATIVE PRIOR TO START OF CONSTRUCTION.
3. ALL EXISTING CONCRETE AND ASPHALT TO BE SAW CUT AT LIMITS OF CONSTRUCTION PRIOR TO DEMOLITION AND REINSTATEMENT.
4. EXCAVATE AS REQUIRED TO ACCOMMODATE CONSTRUCTION OF NEW CURB, GUTTER, SIDEWALK, ROADWAY, ETC. AS PER DETAILS.
5. ALL CONCRETE CURB, GUTTER, AND SIDEWALK TO BE CLASS C-2 EXPOSURE WITH MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 32 MPa.
6. ALL CONCRETE WALKWAYS TO BE A 150 mm IN THICKNESS.
7. INSTALL EXPANSION JOINTS ALONG LENGTH ADJACENT TO CONCRETE CURBS AND ADJACENT TO EXISTING CONCRETE WALKWAYS.
8. ALL MANHOLES TO BE SET 5 mm BELOW CONCRETE OR FINISHED ASPHALT GRADES.
9. ALL CATCH BASINS TO BE SET 30 mm BELOW FINISHED ASPHALT GRADES.
10. NEW LINE PAINTING TO BE COMPLETED AS SHOWN. REINSTATE ALL EXISTING LINE PAINTING AFFECTED BY CONSTRUCTION.
11. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES AT NO COST TO OWNER.
12. INSTALL EXPANSION JOIN AT INTERVALS OF 6 METERS IN NEW CONCRETE SIDEWALKS/WALKWAYS.
13. INSTALL CONCRETE SAW CUTS AT 2.1m MAX OR AS SHOWN ON DRAWINGS IN NEW CONCRETE SIDEWALKS/WALKWAYS.
14. REINSTATE LANDSCAPING ALONG EDGE OF NEW CONCRETE SIDEWALKS AND CURB. MIN 0.5m WIDTH.
15. ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR. WORK SITE TO BE LEFT IN SAFE CONDITION AT THE END OF EACH WORK DAY.
16. CONTRACTORS SHALL AWAIT WRITTEN APPROVAL FOR ANY CHANGE ORDERS BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING ANY WORK OR ORDER OF ANY MATERIALS RELATING TO A CHANGE.
17. PROVIDE CERTIFICATE OF GUARANTEE OF WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER.
18. HATCHED AREAS INDICATE APPROXIMATE AREA FOR EXCAVATION. THE CONTRACTOR IS REQUIRED TO ENSURE THAT ADEQUATE MATERIAL IS EXCAVATED TO ACHIEVE A MAX OF 1:1 SLOPING TO THE REQUIRED DEPTHS.
19. ALL CATCH BASINS, MANHOLES AND GRADE ADJUSTMENT STRUCTURES IN EXTENTS OF EXCAVATION TO BE REPLACED. (SEE DETAILS 7/C-2.6 AND 8/C-2.6)
20. CONTRACTOR IS TO HOARD WORK AS NECESSARY AND PROTECT REMAINING PREMISES IN THE WORK AREA AND ADJACENT AREAS FROM DAMAGE AND MAKE GOOD ANY DAMAGES THAT MAY OCCUR DURING THE WORK.
21. ALL DISTURBED AREAS BEYOND LIMITS OF WORK TO BE RESTORED TO ORIGINAL CONDITIONS OR BETTER.
22. ALL EXISTING TREES LOCATED IN THE AREAS OF REMOVAL ARE TO BE REMOVED (TYPICAL)

LEGEND

- REMOVAL
- NEW LANDSCAPING
- NEW ASPHALT
- NEW CONCRETE
- NEW TOPSOIL
- FENCE LINE
- WATER MAIN LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- EL UNDERGROUND ELECTRICAL CONDUIT
- EP UNDERGROUND HIGH VOLTAGE DUCT BANK
- GRADE DIRECTION
- LIGHT STANDARD
- MANHOLE
- VALVE
- CATCH BASIN
- FIRE HYDRANT
- TRANSFORMER



LOCATION PLAN
SCALE: N.T.S

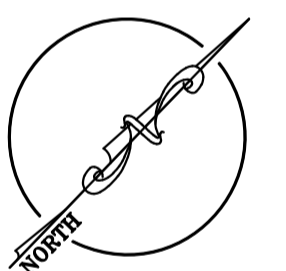
1
C-1.0

A	A - DETAIL	A
B	B - LOCATION/DRAWING No.	B
C	C - DRAWING No.	C

No.	REVISION	DATE
R3	ISSUED FOR ADDENDUM#2	APR, 2026
R2	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
R0	ISSUED FOR REVIEW	MAR, 2026

GENERAL NOTES

1. DRAWINGS TO BE READ AS A SET.
2. DO NOT SCALE FROM DRAWINGS.
3. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO SUBMISSION OF TENDERS.
4. ALL DEFICIENCIES FOUND IN THIS DRAWING IS TO BE BROUGHT TO THE ATTENTION OF THE FACILITIES ENGINEERING AND DEVELOPMENT OFFICE OF THE DEPARTMENT OF FACILITIES MANAGEMENT, MEMORIAL UNIVERSITY OF NEWFOUNDLAND, PRIOR TO THE SUBMISSION OF THE TENDERS.



MEMORIAL UNIVERSITY
FACILITIES MANAGEMENT

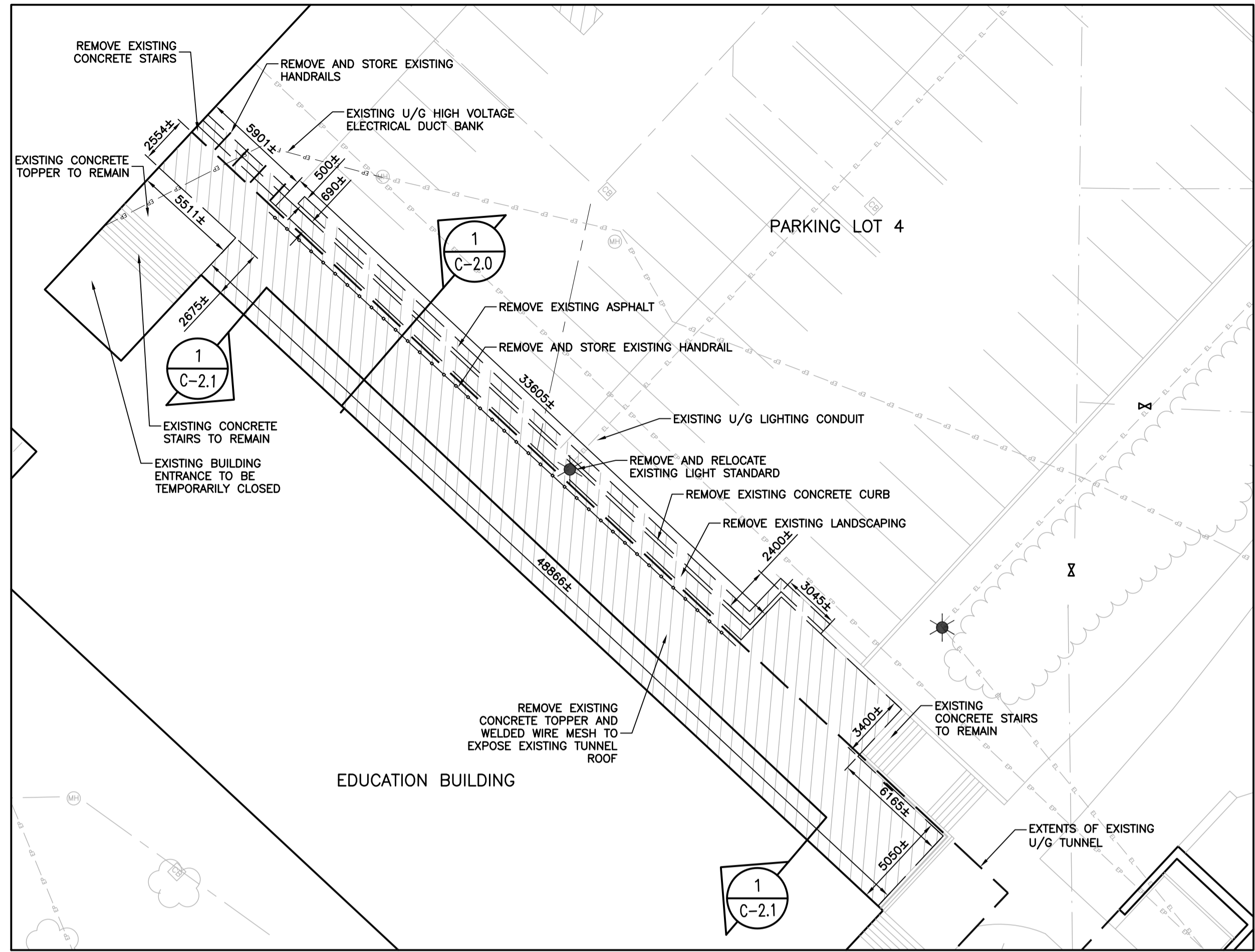
This University was raised by the people of Newfoundland as a memorial to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.

- Dedication plaque, Arts & Administration Building, St. John's Campus

PROJECT NAME:
**ACADEMIC TUNNELS
RE-WATERPROOFING CP-1**
Project #: TA-511-25

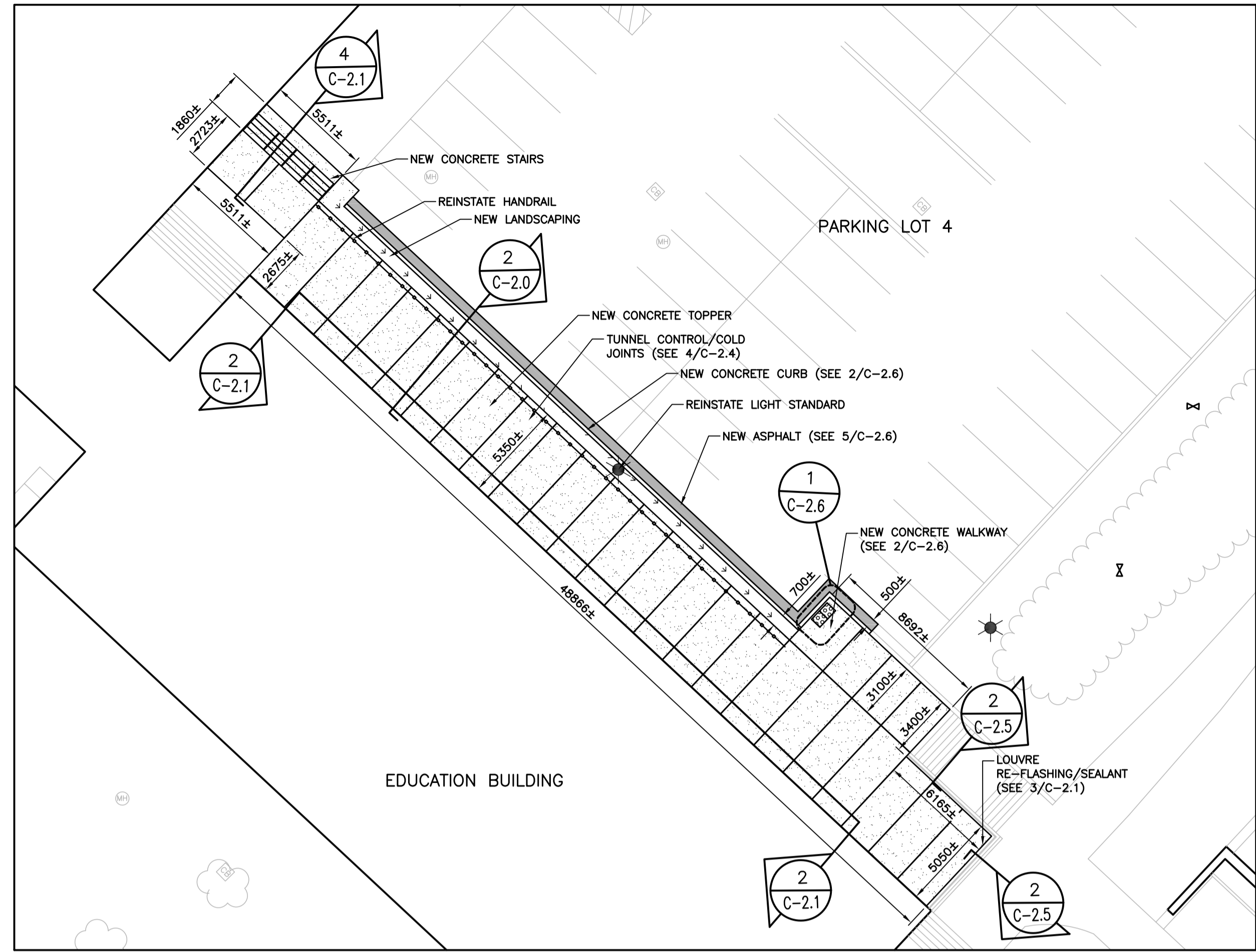
DRAWING TITLE:
LOCATION PLAN

DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-1.0



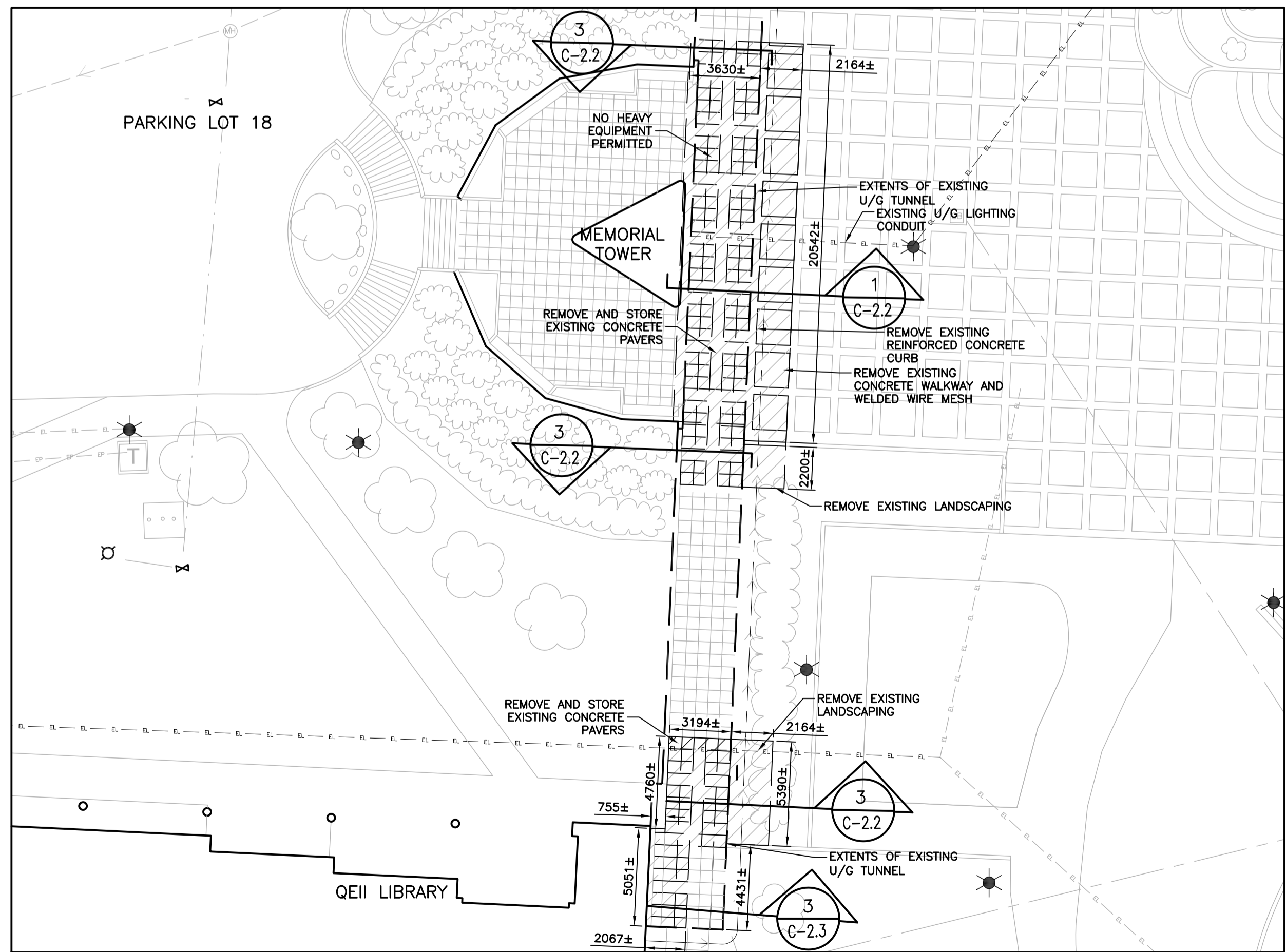
EDUCATION DEMOLITION SITE PLAN
SCALE: 1:200

1
C-1.1



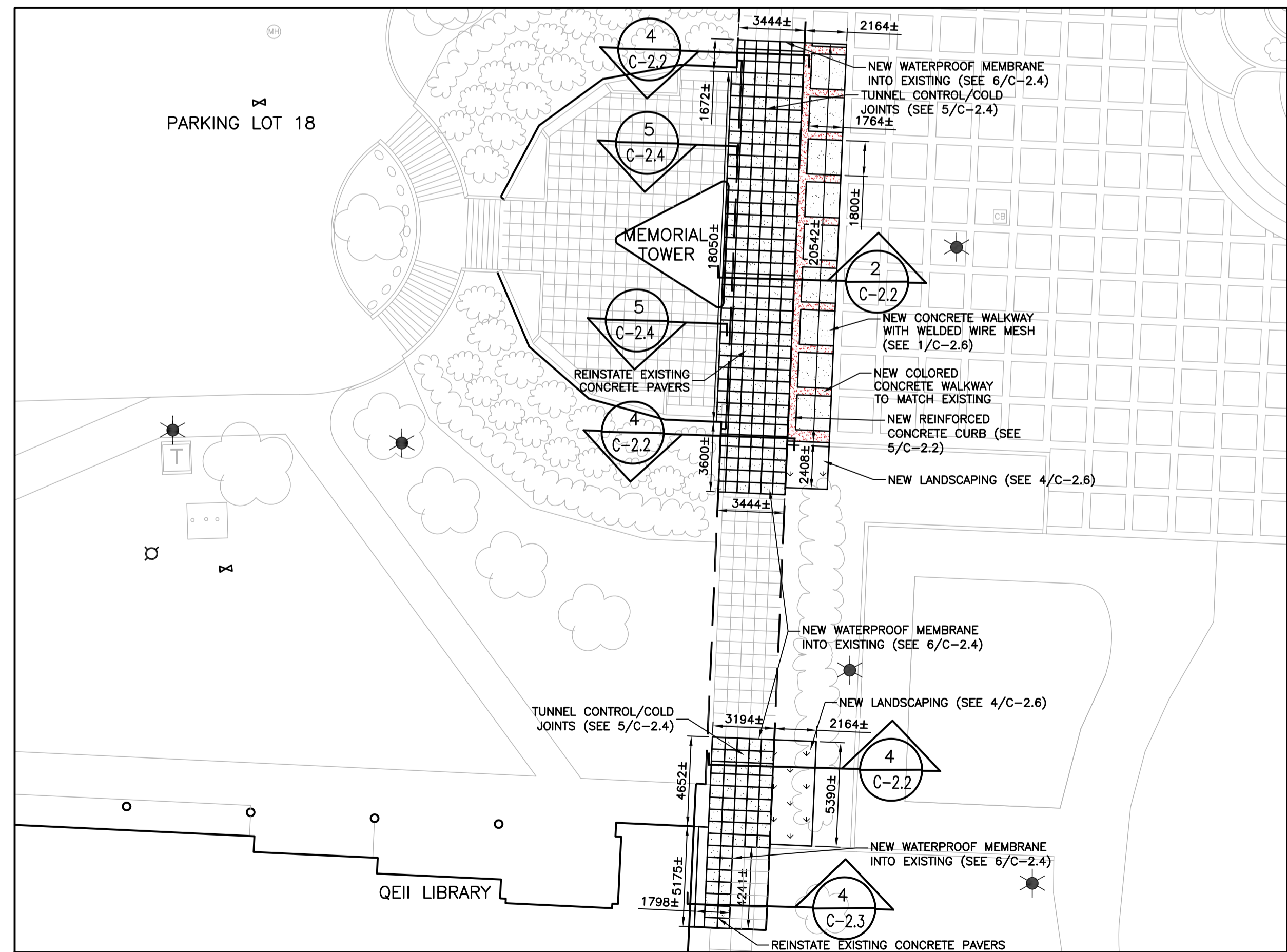
EDUCATION NEW SITE PLAN
SCALE: 1:200

2
C-1.1



LIBRARY TO UNIVERSITY CENTER DEMOLITION SITE PLAN
SCALE: 1:200

3
C-1.1



LIBRARY TO UNIVERSITY CENTER NEW SITE PLAN
SCALE: 1:200

4
C-1.1

A - DETAIL
B - LOCATION/DRAWING No.
C - DRAWING No.

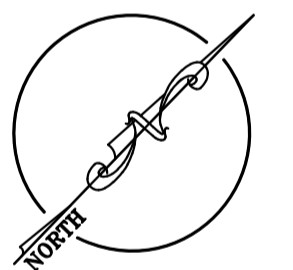
No.	REVISION	DATE
R3	ISSUED FOR ADDENDUM#2	APR, 2026
R2	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
R0	ISSUED FOR REVIEW	MAR, 2026

GENERAL NOTES

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- DO NOT SCALE FROM DRAWINGS.
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LEGEND

- REMOVAL
- NEW LANDSCAPING
- NEW ASPHALT
- NEW CONCRETE
- NEW TOPSOIL
- WATER MAIN LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND HIGH VOLTAGE DUCT BANK
- GRADE DIRECTION
- LIGHT STANDARD
- MANHOLE
- VALVE
- CATCH BASIN
- FIRE HYDRANT
- TRANSFORMER

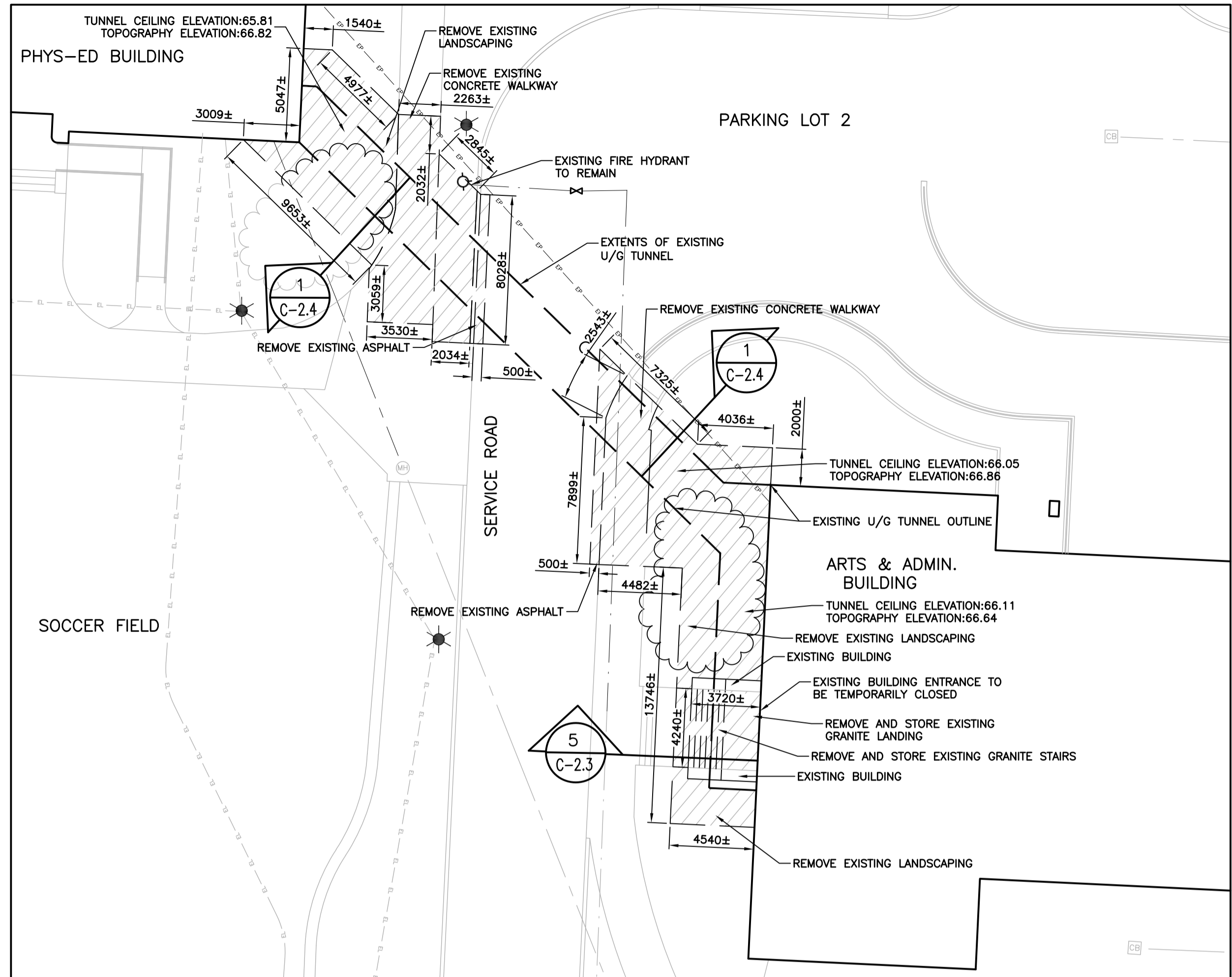


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- Dedication plaque, Arts & Administration Building, St. John's Campus

PROJECT NAME:
**ACADEMIC TUNNELS
RE-WATERPROOFING CP-1
Project #: TA-511-25**

DRAWING TITLE:
**EDUCATION AND LIBRARY
TO UNIVERSITY CENTER
DEMOLITION AND NEW
SITE PLANS (PRICE 'A')**

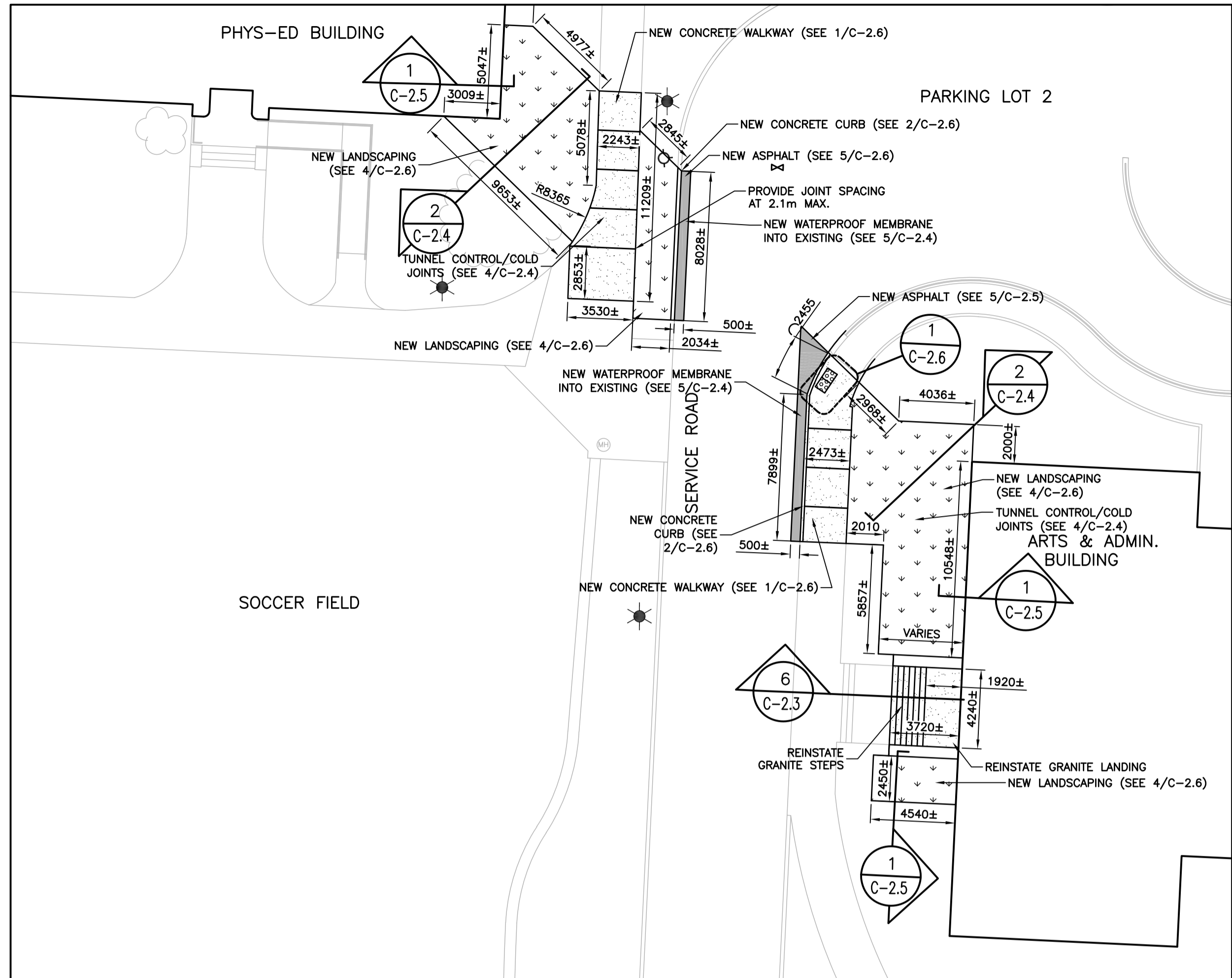
DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-1.1



PHYSICAL EDUCATION TO ARTS AND ADMIN. DEMOLITION PLAN

SCALE: 1:200

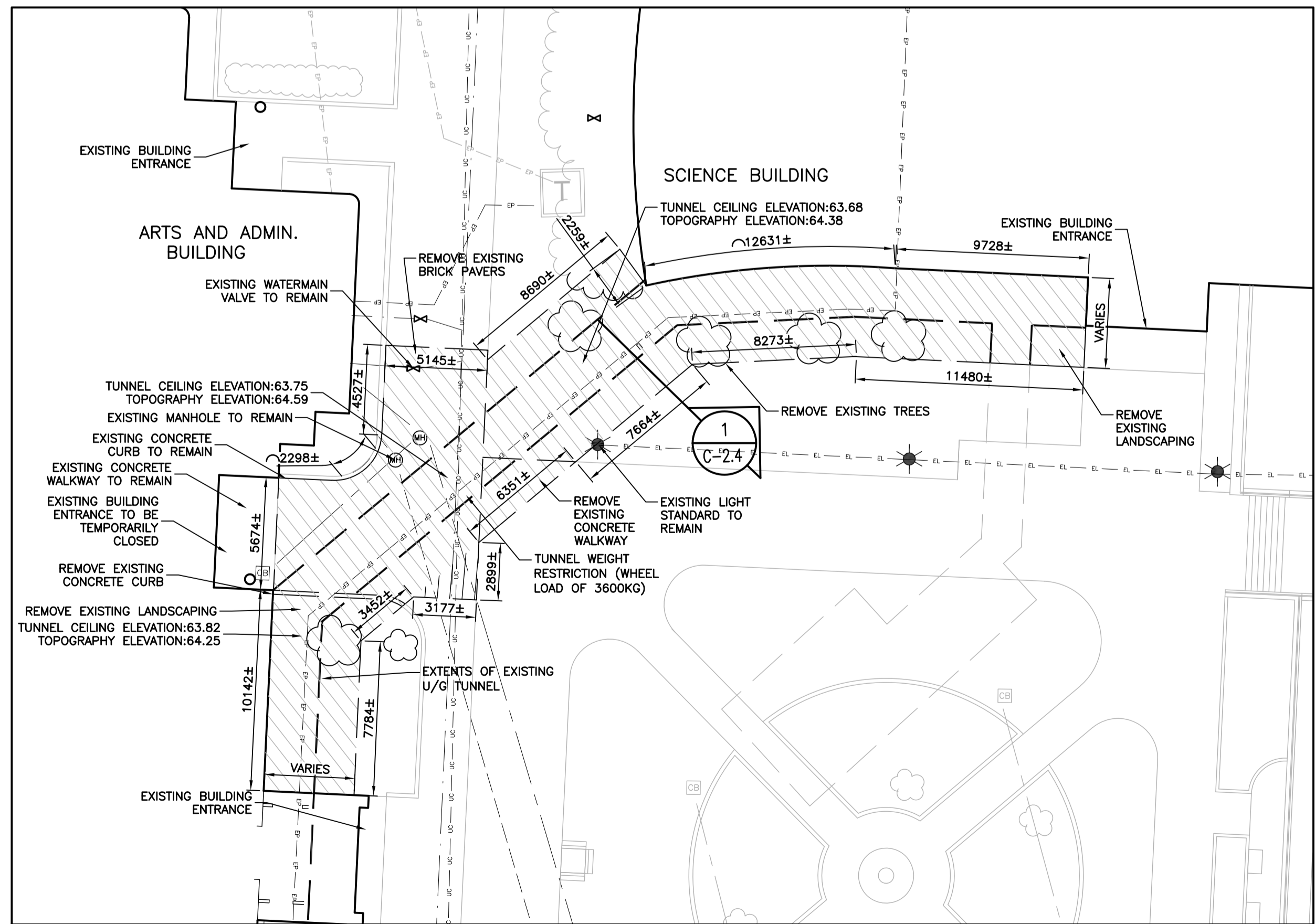
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C-1.2



PHYSICAL EDUCATION TO ARTS AND ADMIN. NEW SITE PLAN

SCALE: 1:200

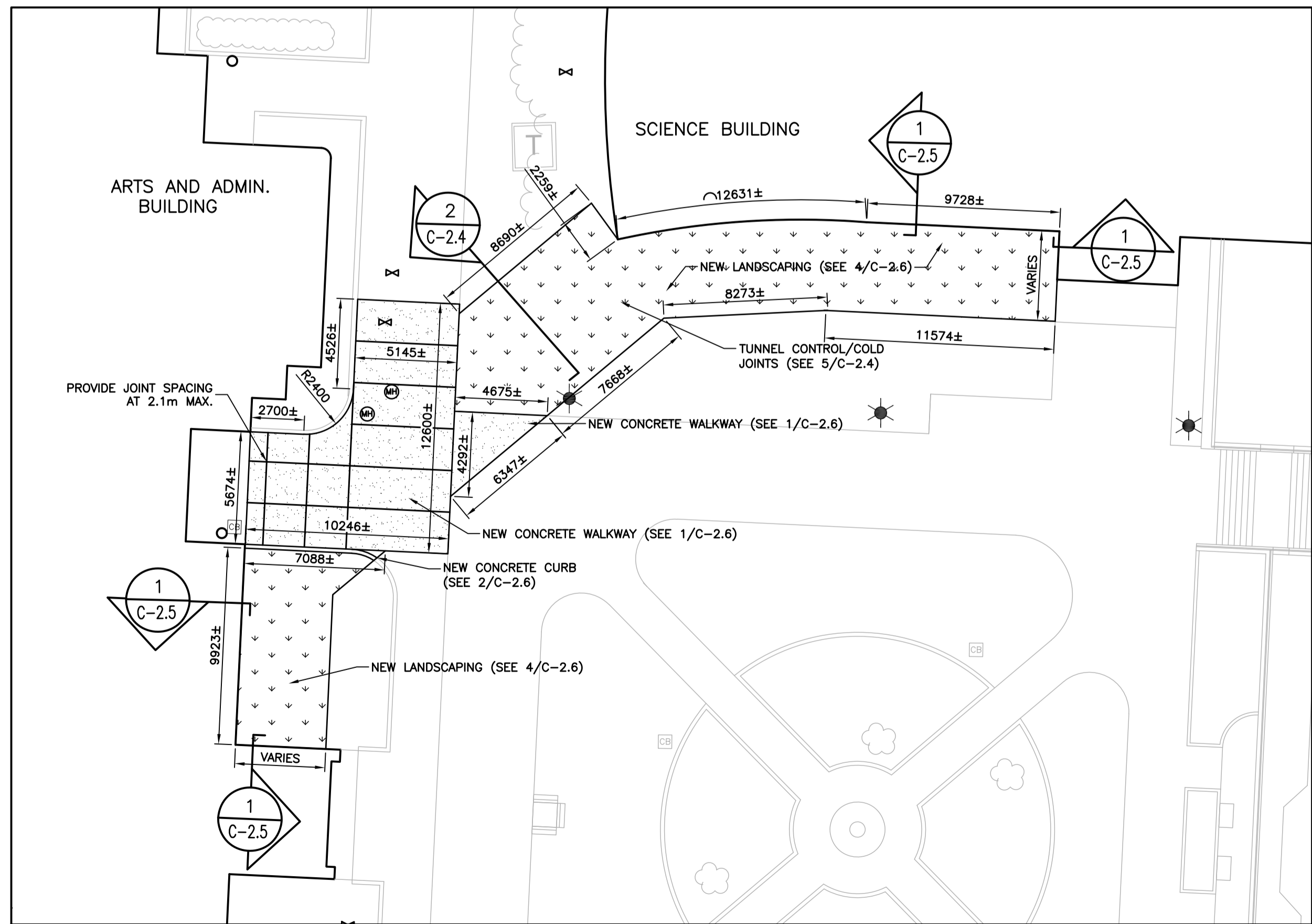
2
C-1.2



PEDAGOGUES CLOSE DEMOLITION SITE PLAN

SCALE: 1:200

3
C-1.2



PEDAGOGUES CLOSE NEW SITE PLAN

SCALE: 1:200

4
C-1.2

A - DETAIL
B - LOCATION/DRAWING No.
C - DRAWING No.

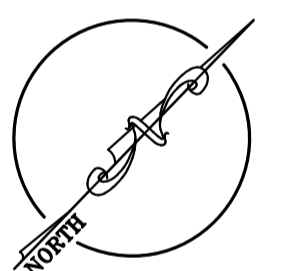
No.	REVISION	DATE
R3	ISSUED FOR ADDENDUM#2	APR, 2026
R2	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
R0	ISSUED FOR REVIEW	MAR, 2026

GENERAL NOTES

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- DO NOT SCALE FROM DRAWINGS.
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- ALL DEFICIENCIES FOUND IN THIS DRAWING IS TO BE BROUGHT TO THE ATTENTION OF THE FACILITIES ENGINEERING AND DEVELOPMENT OFFICE OF THE DEPARTMENT OF FACILITIES MANAGEMENT, MEMORIAL UNIVERSITY OF NEWFOUNDLAND, PRIOR TO THE SUBMISSION OF THE TENDERS.

LEGEND

- REMOVAL
- NEW LANDSCAPING
- NEW ASPHALT
- NEW CONCRETE
- NEW TOPSOIL
- WATER MAIN LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- EL UNDERGROUND ELECTRICAL CONDUIT
- EP UNDERGROUND HIGH VOLTAGE DUCT BANK
- GRADE DIRECTION
- LIGHT STANDARD
- MANHOLE
- VALVE
- CATCH BASIN
- FIRE HYDRANT
- TRANSFORMER



MEMORIAL UNIVERSITY
FACILITIES MANAGEMENT

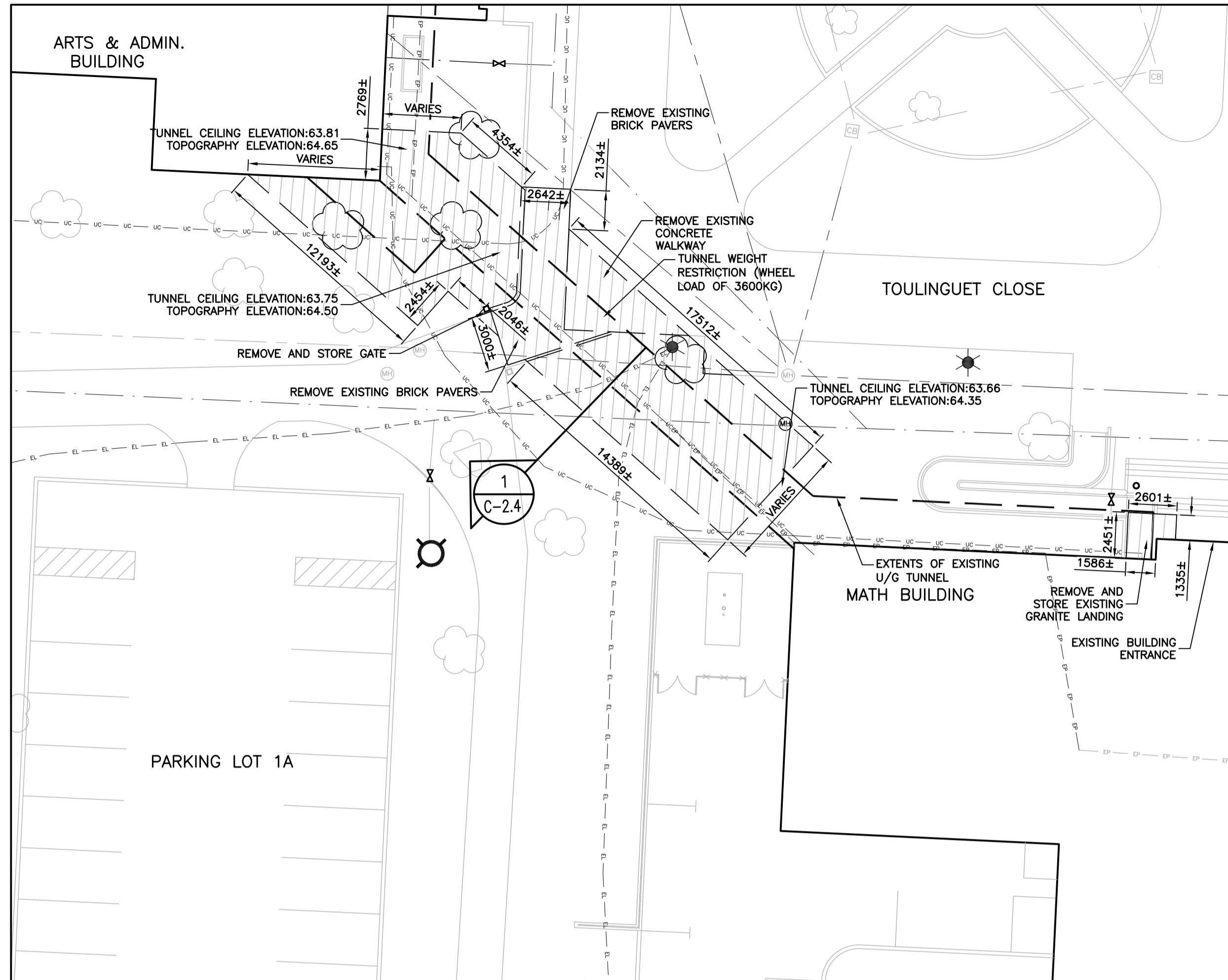
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PROJECT NAME:
**ACADEMIC TUNNELS
RE-WATERPROOFING CP-1
Project #: TA-511-25**

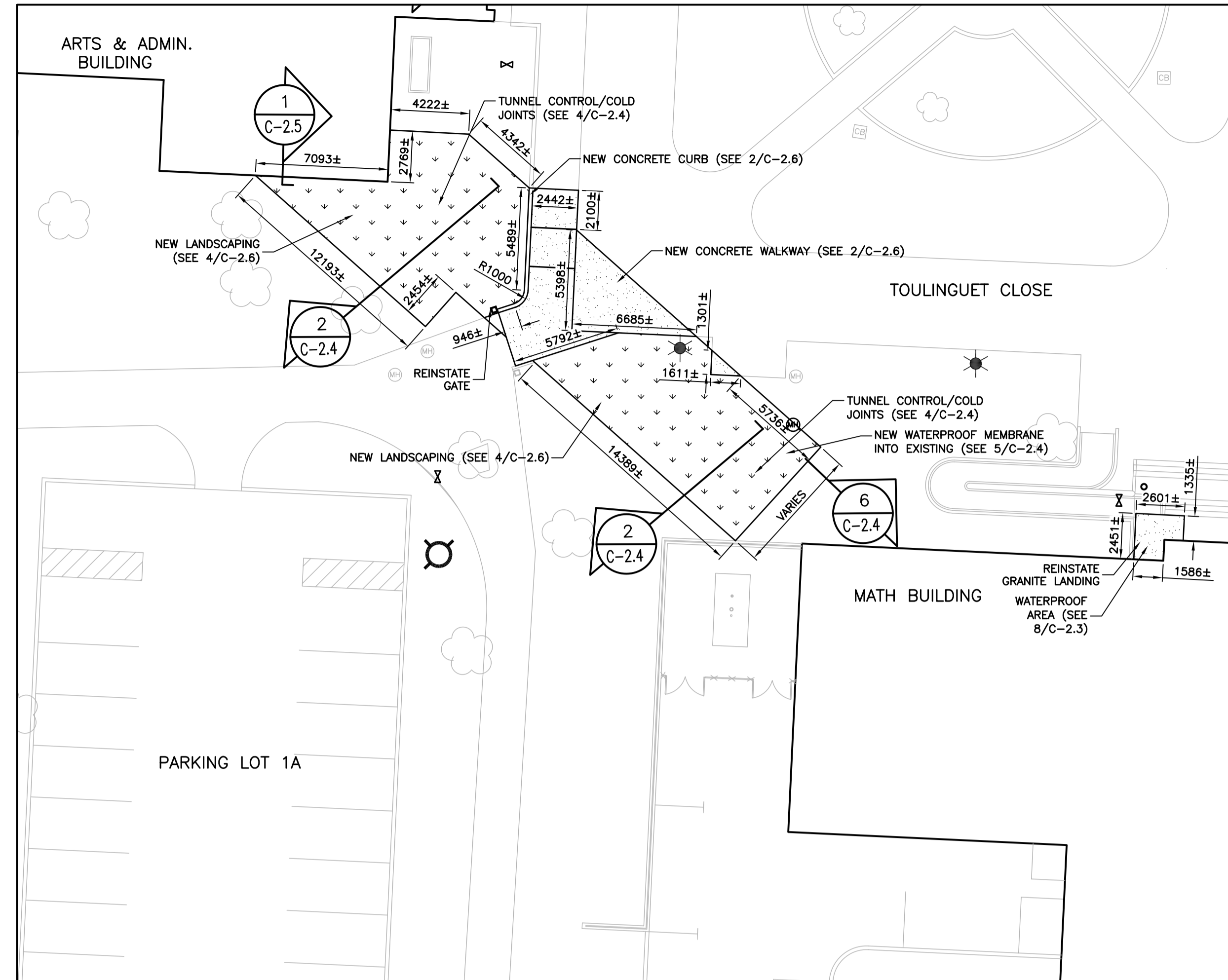
DRAWING TITLE:
**PHYSICAL EDUCATION TO ARTS
AND ADMIN. AND SCIENCE TO
ARTS AND ADMIN. DEMOLITION
AND NEW SITE PLANS (PRICE 'A')**

DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-1.2



ARTS AND ADMIN. TO MATH DEMOLITION PLAN
SCALE: 1:200

1
C-1.3



ARTS AND ADMIN TO MATH NEW SITE PLAN
SCALE: 1:200

2
C-1.3

A - DETAIL
B - LOCATION/DRAWING No.
C - DRAWING No.

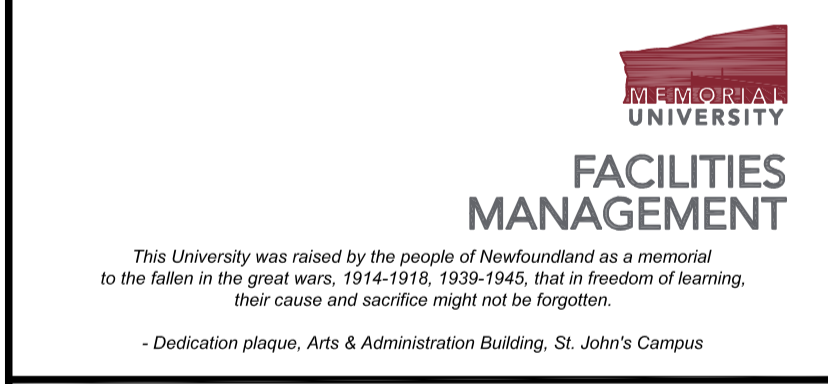
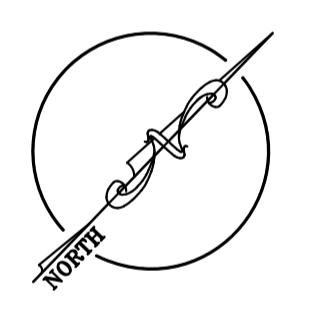
No.	REVISION	DATE
R3	ISSUED FOR ADDENDUM#2	APR, 2026
R2	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
R0	ISSUED FOR REVIEW	MAR, 2026

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LEGEND

	REMOVAL
	NEW LANDSCAPING
	NEW ASPHALT
	NEW CONCRETE
	NEW TOPSOIL
	WATER MAIN LINE
	SANITARY SEWER LINE
	STORM SEWER LINE
	UNDERGROUND ELECTRICAL CONDUIT
	UNDERGROUND HIGH VOLTAGE DUCT BANK
	GRADE DIRECTION
	LIGHT STANDARD
	MANHOLE
	VALVE
	CATCH BASIN
	FIRE HYDRANT
	TRANSFORMER



PROJECT NAME:
**ACADEMIC TUNNELS
RE-WATERPROOFING CP-1
Project #: TA-511-25**

DRAWING TITLE:
**ARTS AND ADMINISTRATION
TO MATH DEMOLITION AND
NEW SITE PLANS (PRICE 'A')**

DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-1.3

A - DETAIL
 B - LOCATION/DRAWING No.
 C - DRAWING No.

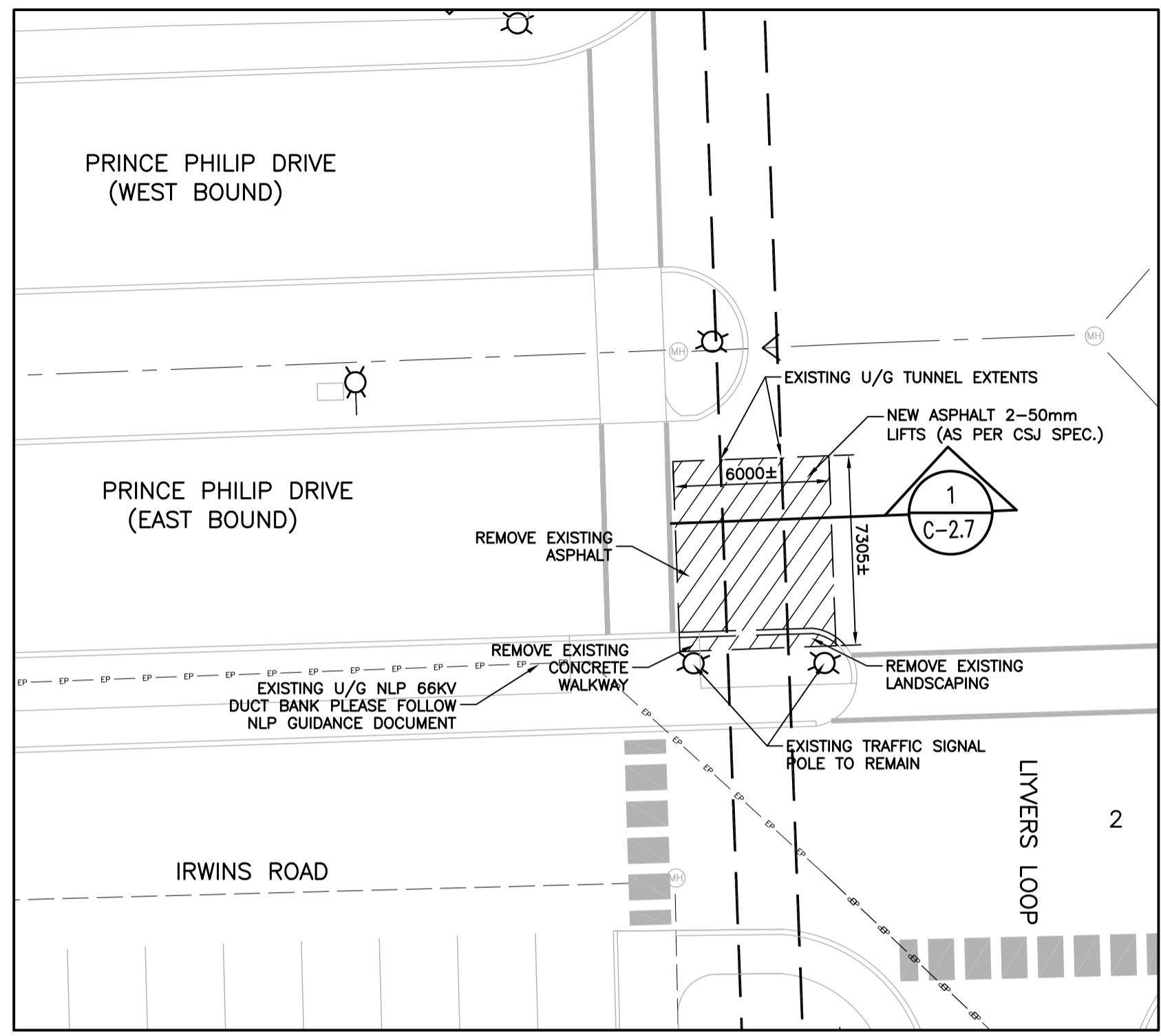
No.	REVISION	DATE
RO	ISSUED FOR ADDENDUM#2	APR. 2026

GENERAL NOTES

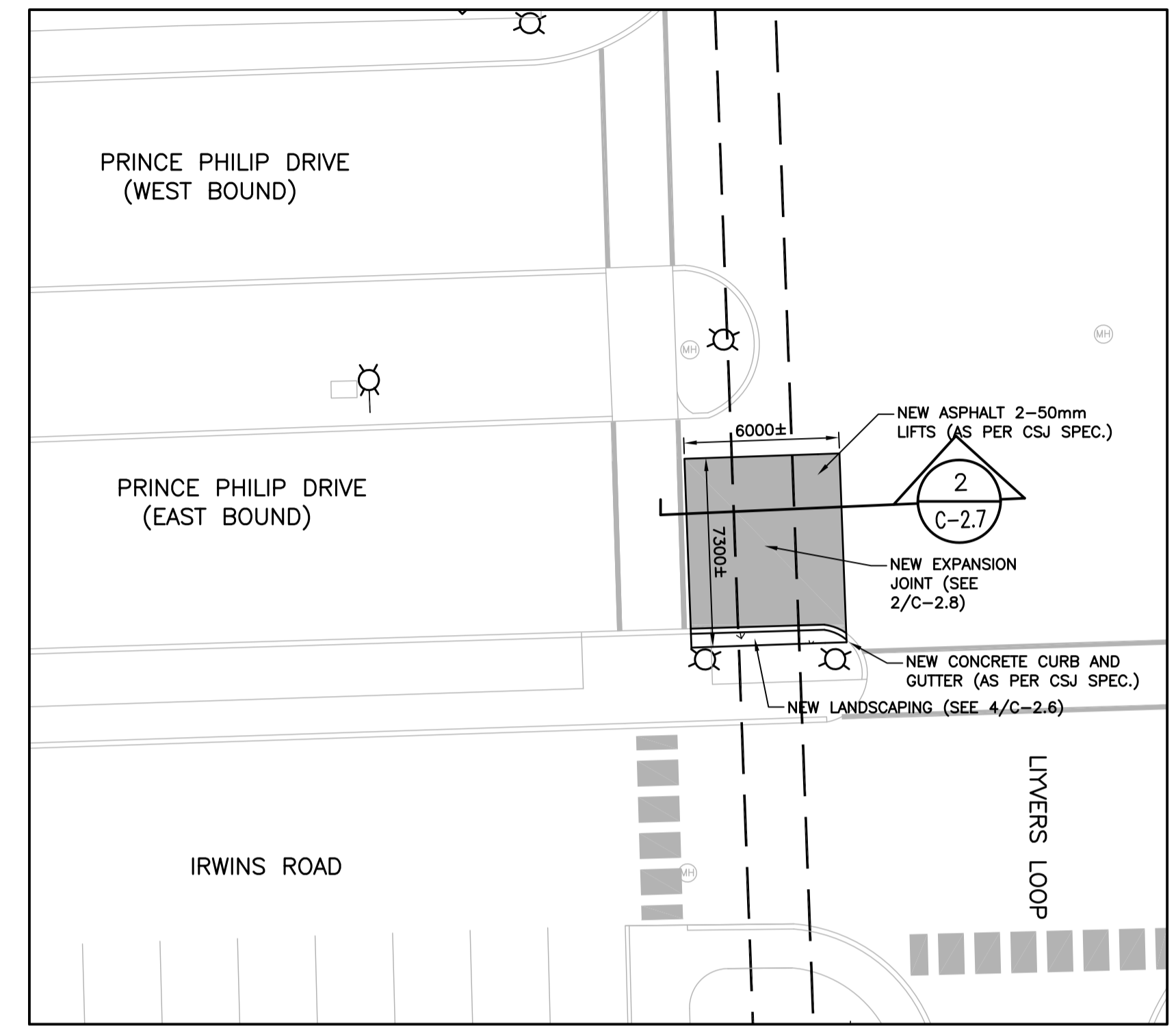
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LEGEND

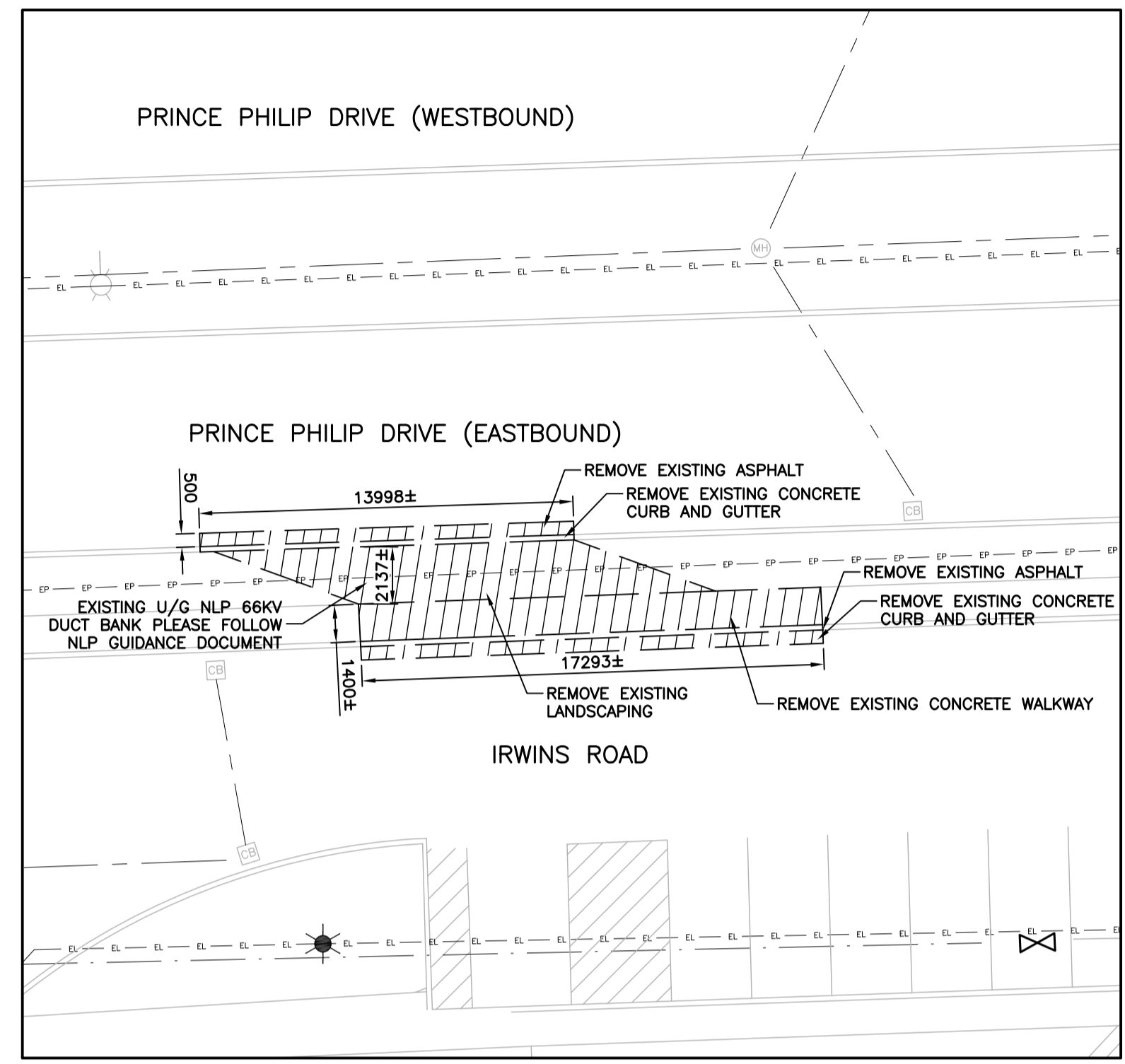
- REMOVAL
- NEW LANDSCAPING
- NEW ASPHALT
- NEW CONCRETE
- NEW TOPSOIL
- WATER MAIN LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND HIGH VOLTAGE DUCT BANK
- GRADE DIRECTION
- LIGHT STANDARD
- MANHOLE
- VALVE
- CATCH BASIN
- FIRE HYDRANT
- TRANSFORMER



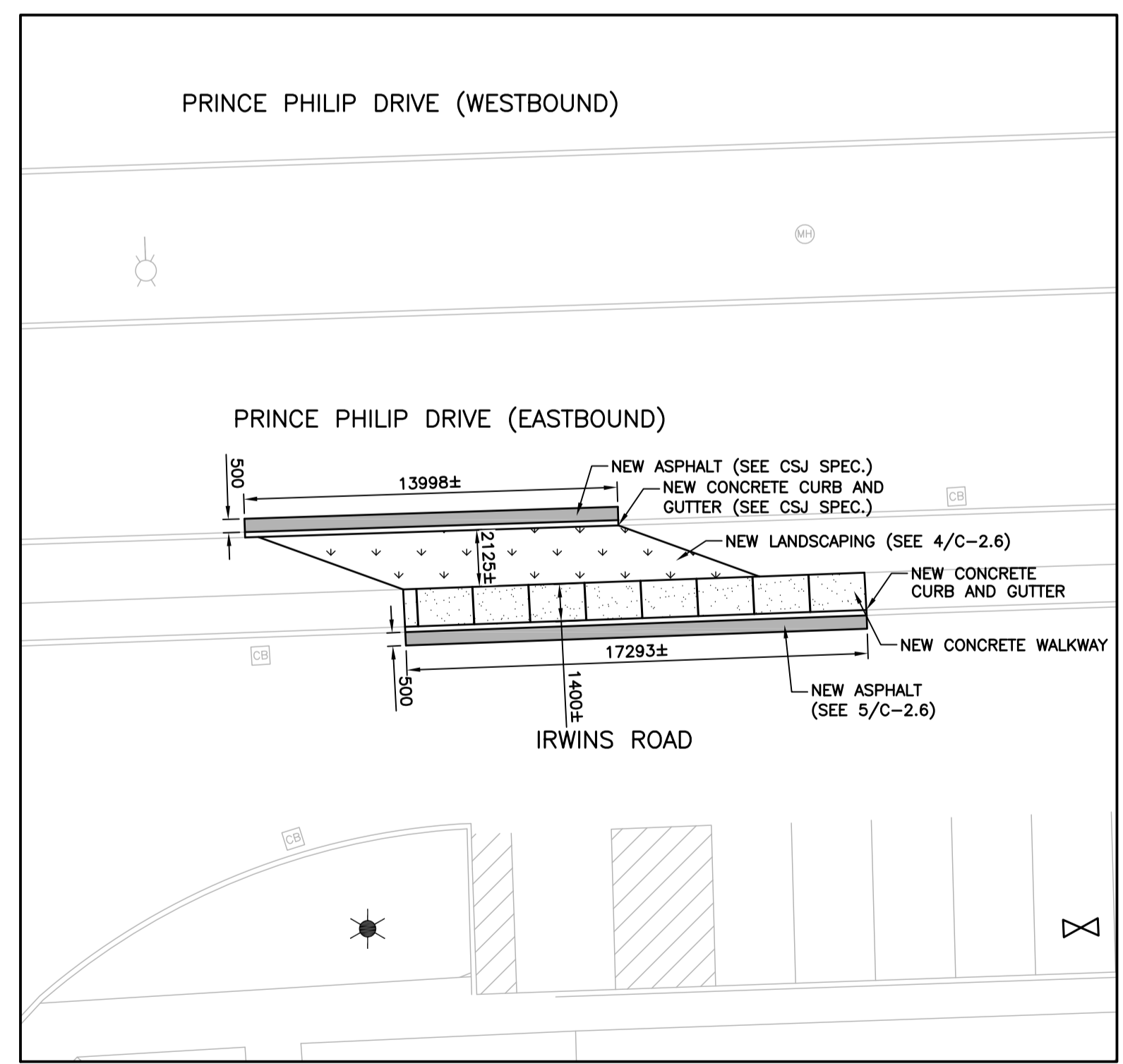
PRINCE PHILIP DRIVE DEMOLITION SITE PLAN (PRICE 'B')
 SCALE: 1:200



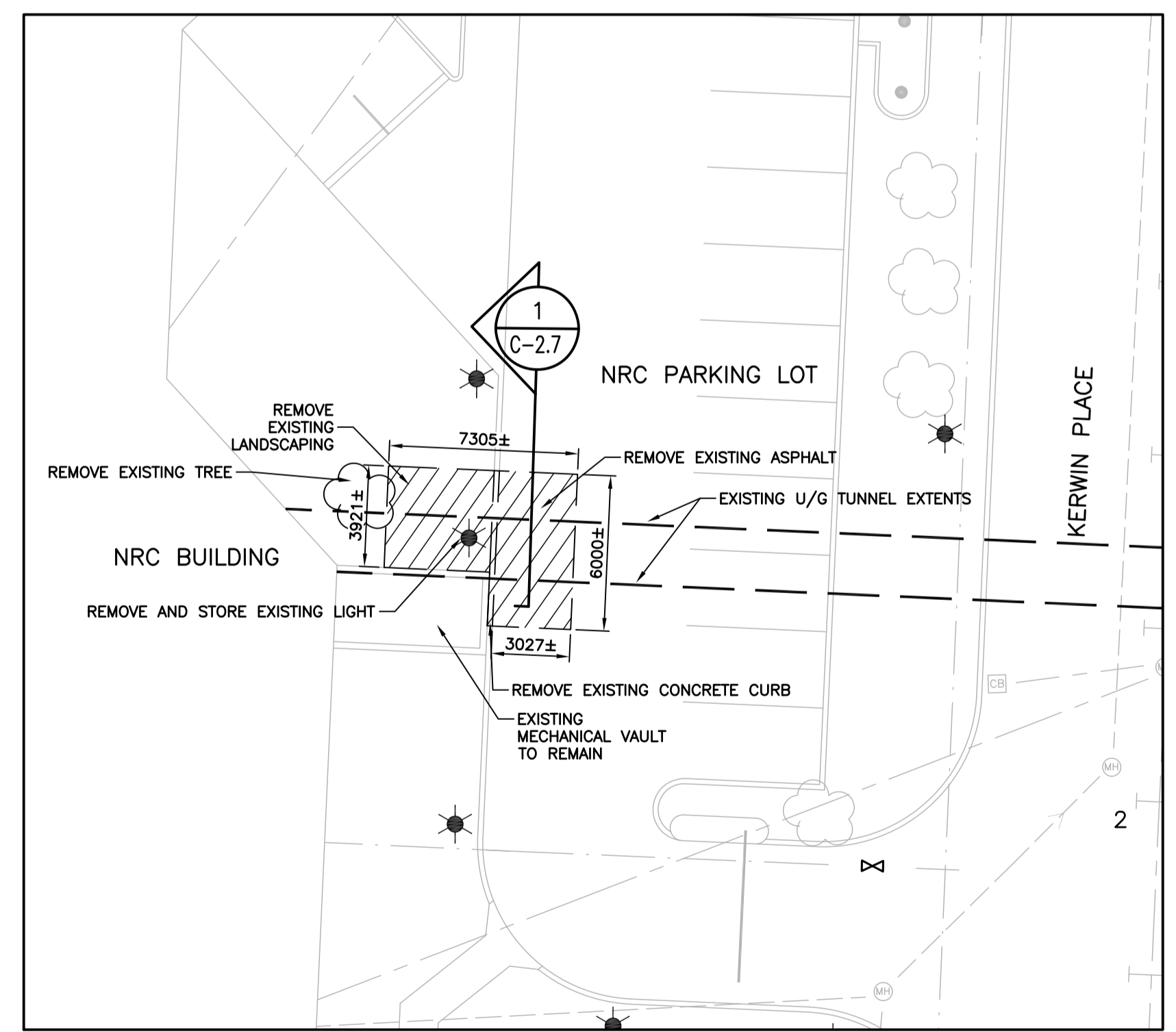
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 SCALE: 1:200



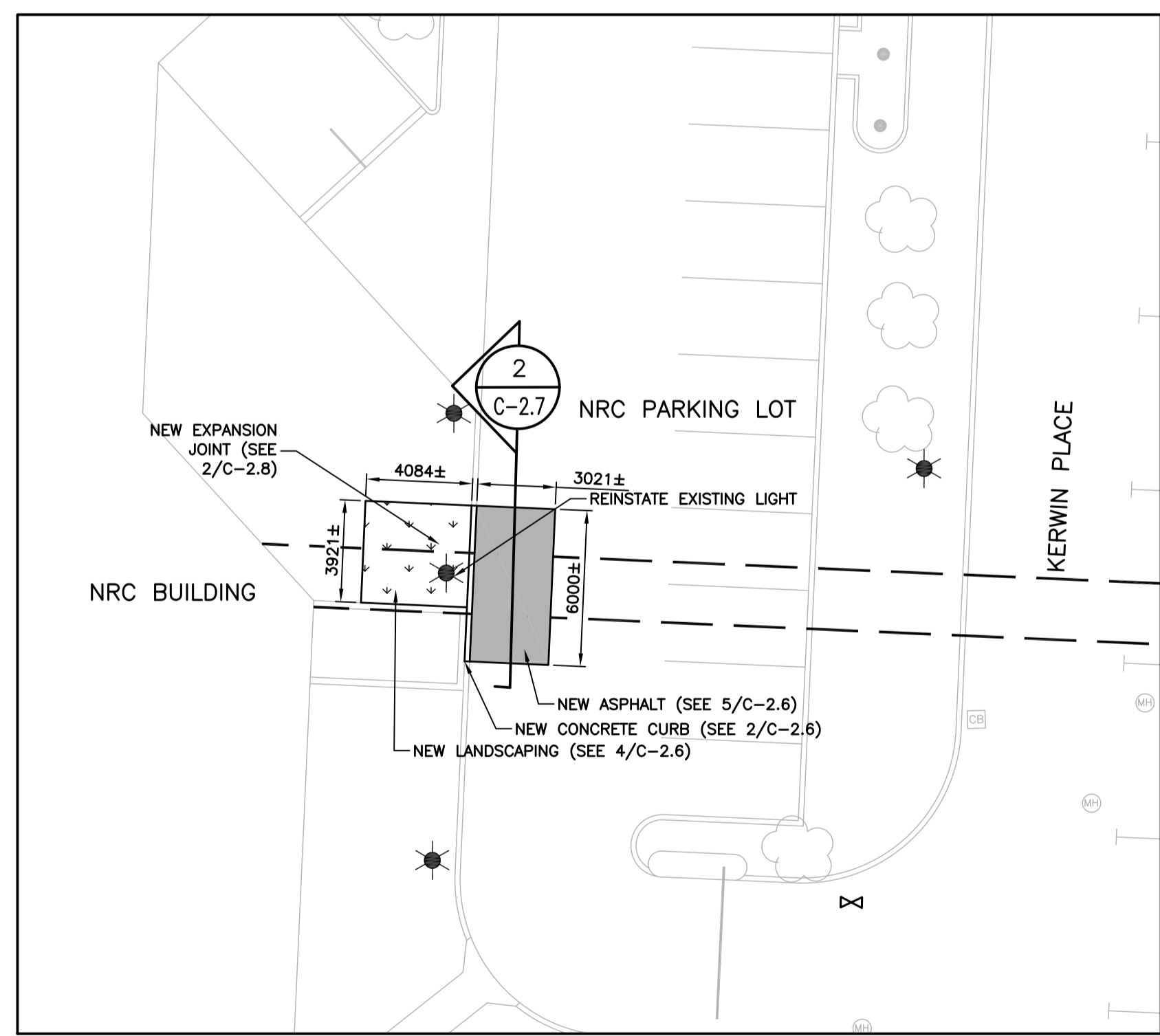
TEMPORARY ACCESS DEMOLITION SITE PLAN (PRICE 'B')
 SCALE: 1:200



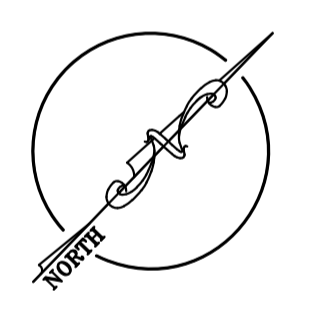
TEMPORARY ACCESS REINSTATEMENT SITE PLAN (PRICE 'B')
 SCALE: 1:200



KERWIN PLACE DEMOLITION SITE PLAN (PRICE 'C')
 SCALE: 1:200



KERWIN PLACE NEW SITE PLAN (PRICE 'C')
 SCALE: 1:200



FACILITIES MANAGEMENT

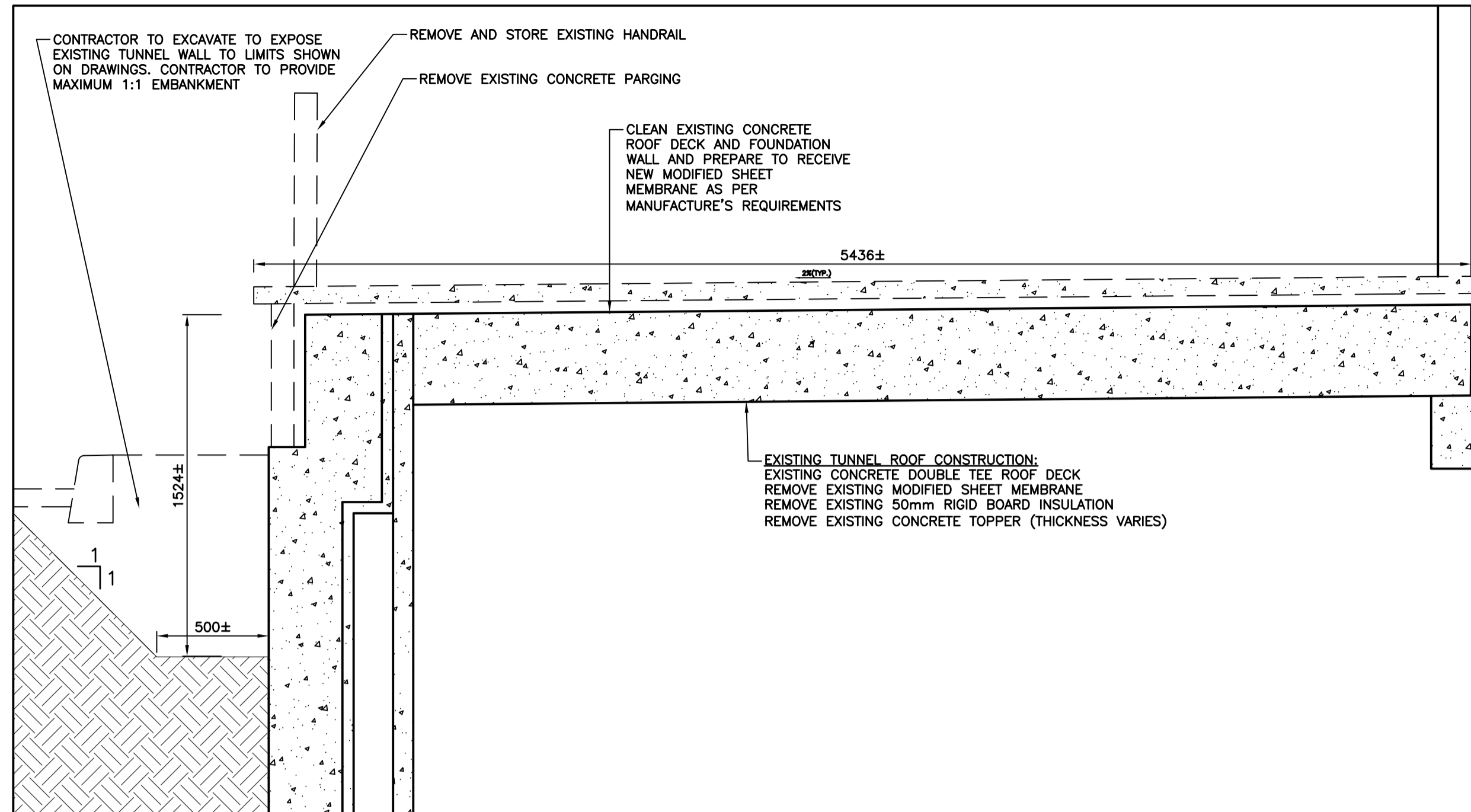
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PROJECT NAME:
**ACADEMIC TUNNELS
 RE-WATERPROOFING CP-1
 Project #: TA-511-25**

DRAWING TITLE:
**PRINCE PHILIP DRIVE AND
 KERWIN PLACE DEMOLITION
 AND NEW SITE PLANS
 (PRICE 'B' AND 'C')**

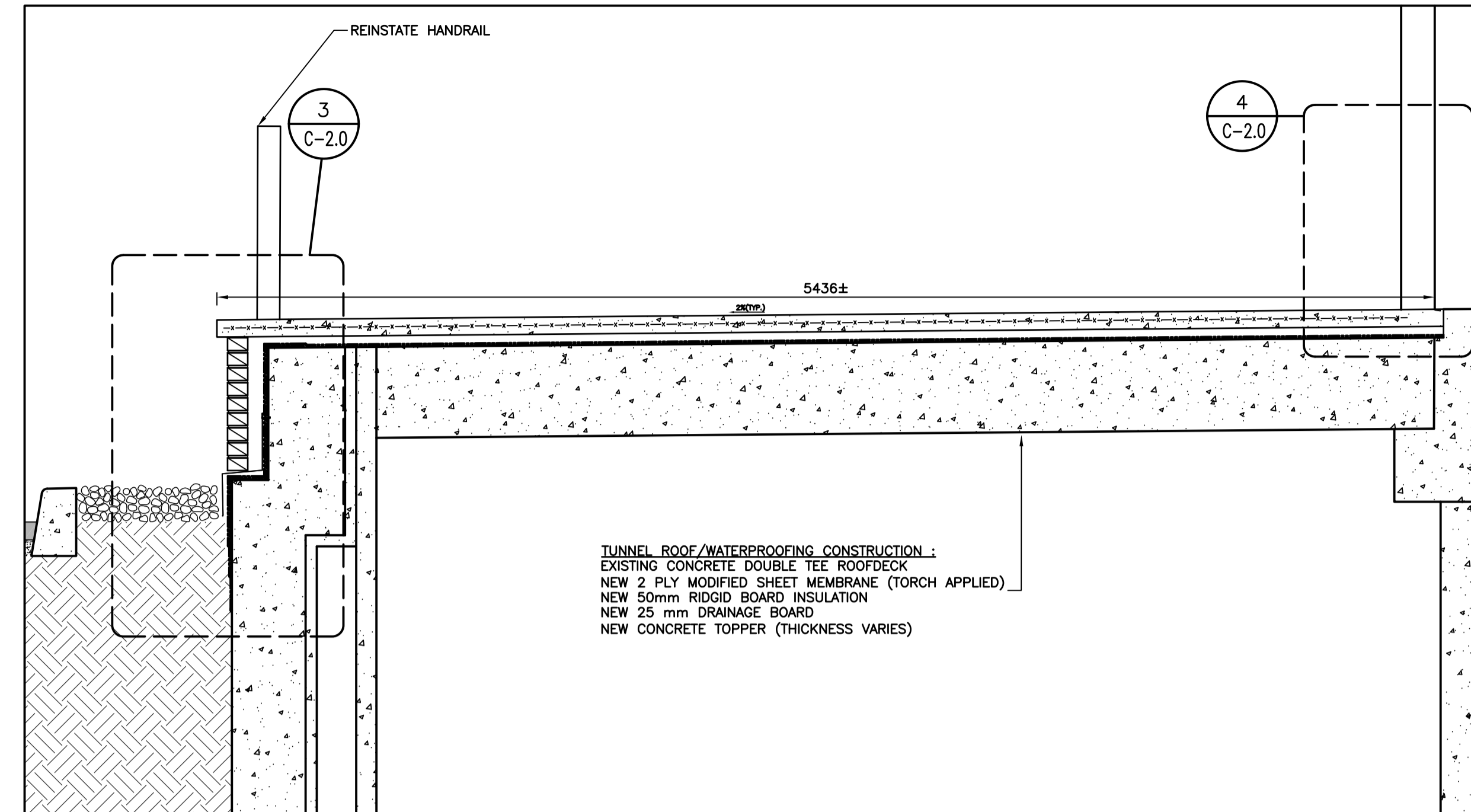
DESIGNED: S.C	DRAWN: S.C
REVIEWED:	APPROVED:
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-1.4



REMOVAL TUNNEL SECTION

SCALE: 1:20

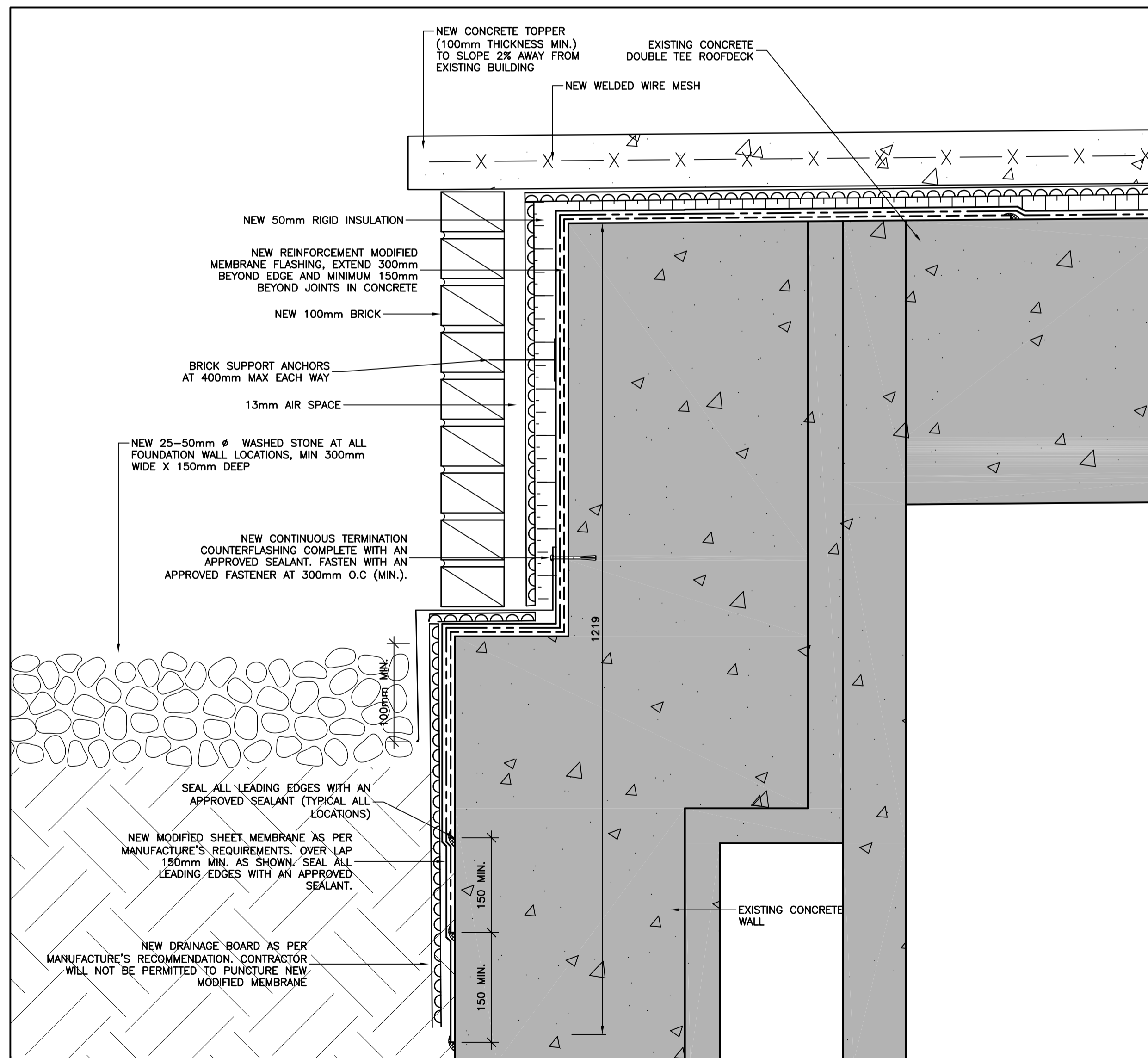
1
C-2.0



NEW TUNNEL SECTION

SCALE: 1:20

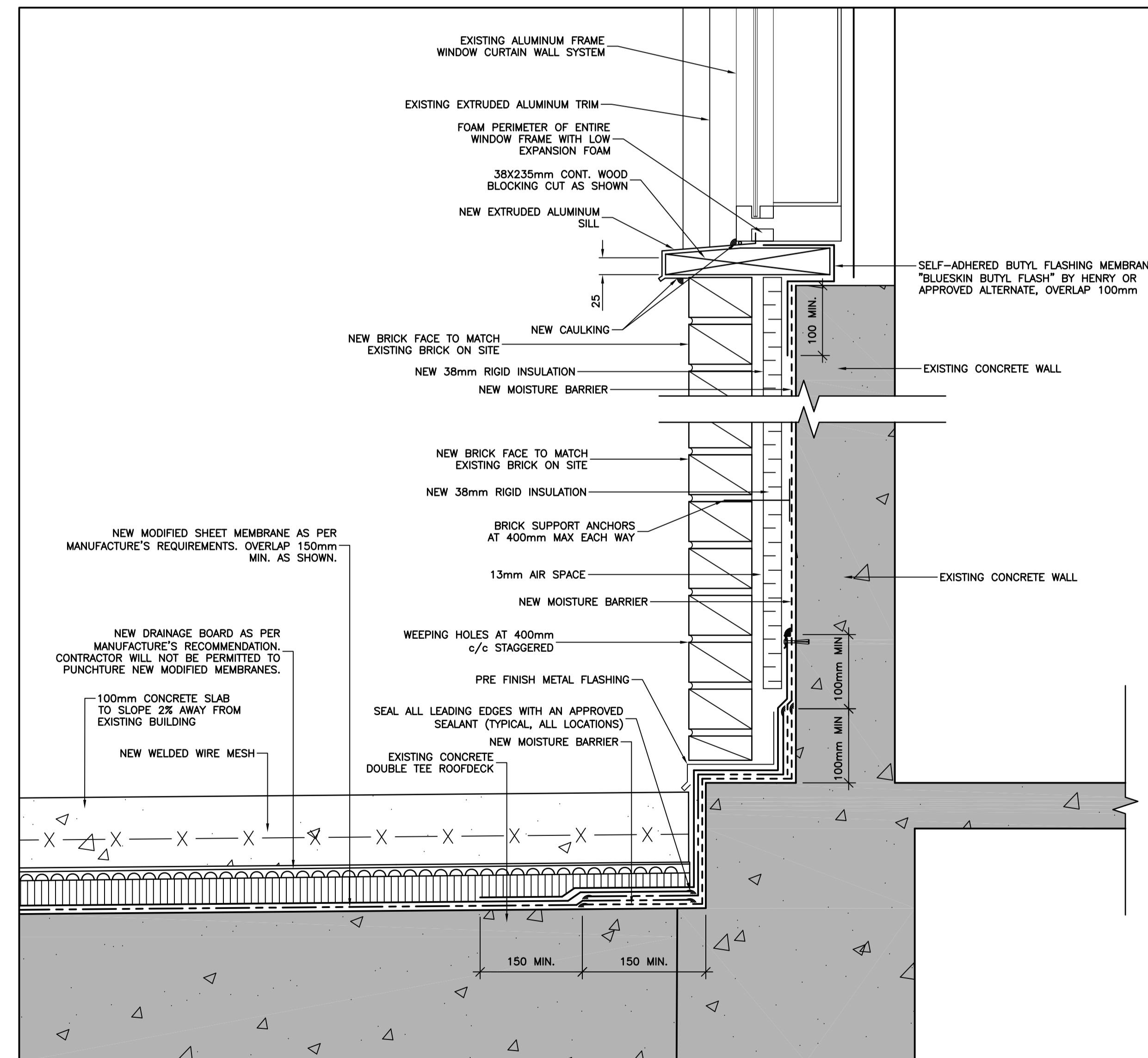
2
C-2.0



NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/WALL INTERSECTION

SCALE: 1:5

3
C-2.0



NEW WATERPROOF MEMBRANE: TYPICAL ROOF/WALL INTERSECTION DETAIL

SCALE: 1:5

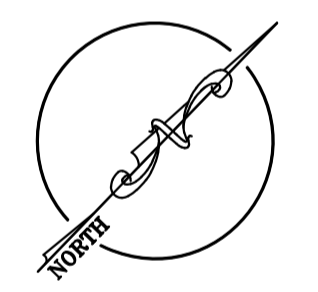
4
C-2.0

A - DETAIL
B - LOCATION/DRAWING No.
C - DRAWING No.

No.	REVISION	DATE
R3	ISSUED FOR ADDENDUM#2	APR, 2026
R2	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
R0	ISSUED FOR REVIEW	MAR, 2026

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- AFTER REINFORCING STEEL SHALL HAVE A YIELD STRENGTH OF 400 MPa AND SHALL CONFORM TO CSA-A23 AND CSA G30.18
- MIN CONCRETE COVER OVER REINFORCING STEEL SHALL BE 75mm.
- TUNNEL WATERPROOFING MEMBRANE SYSTEM SHALL BE COLPHENE FLAM 180 OR APPROVED ALTERNATE. APPLIED ACCORDING TO MANUFACTURE'S SPECIFICATIONS. CONTRACTOR SHALL PROCEED AS FOLLOWS:
 - REMOVE EXISTING EXPOSED TUNNEL MEMBRANE ON TUNNEL
 - POWER WASH TUNNEL CONCRETE WITH A MINIMUM PRESSURE OF 5000 PSI TO REMOVE ALL DUST, GRIME, GREASE AND DEBRIS.
 - ALLOW TUNNEL CONCRETE TO DRY COMPLETELY FOR 24 HOURS.
 - APPLY ELASTOCOL 500 PRIMER TO ENTIRETY OF CLEAN, DRY TUNNEL SURFACE AND ALLOW TO DRY.
 - INSTALL FIRST LAYER OF COLPHENE FLAM 180. LONGITUDINAL OVERLAPS SHALL BE MINIMUM 100mm. MEMBRANE SHALL LAP TUNNEL WALLS BY MINIMUM 200mm. WALL LAP SHALL BE SECURED TO TUNNEL USING METAL EDGING AND SOPRAMASTIC SEALANT.
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 - REPAIR ANY TEARS AND HOLES USING COLPHENE FLAM 180 PATCHES SIZED 100mm LARGER ALL AROUND THE DAMAGED AREA.
 - INSTALL DELTA-DRAIN 6000 HI-X DRAINAGE BOARD OR APPROVED ALTERNATE OVER MODIFIED SHEET MEMBRANE.

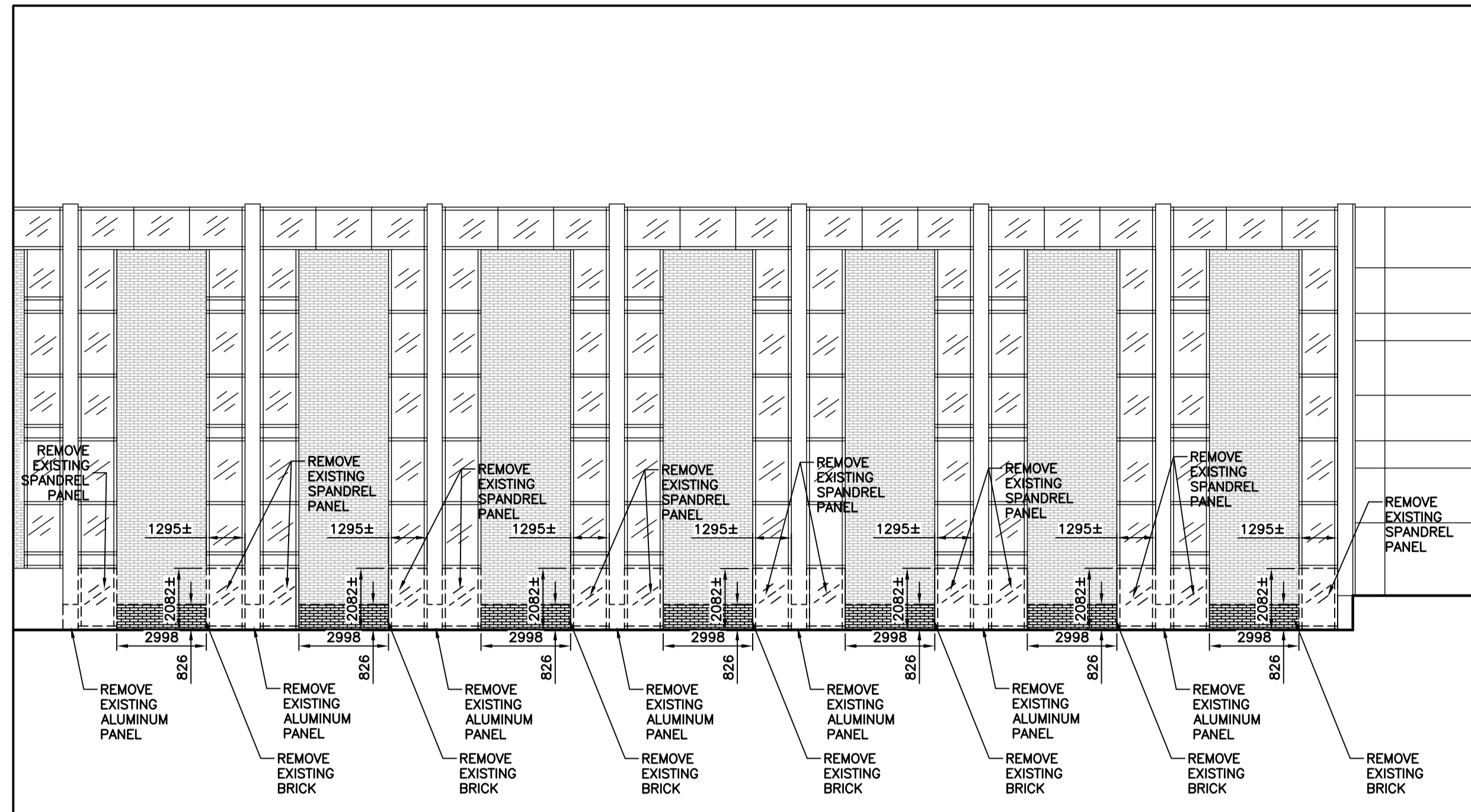


MEMORIAL UNIVERSITY
FACILITIES MANAGEMENT
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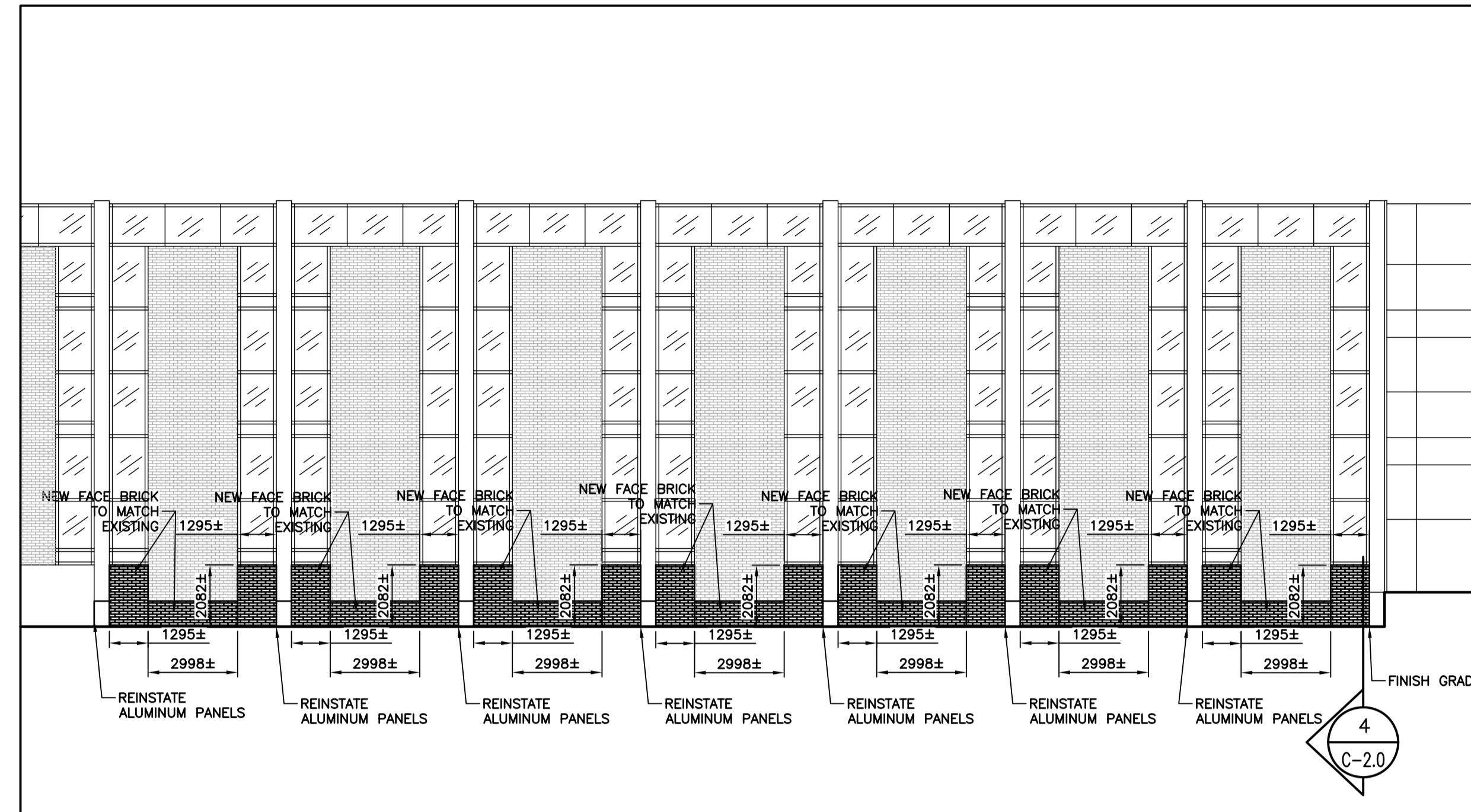
PROJECT NAME:
**ACADEMIC TUNNELS
RE-WATERPROOFING CP-1**
Project #: TA-511-25

DRAWING TITLE:
SECTIONS AND DETAILS

DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.0



DEMOLITION WEST ELEVATION EDUCATION BUILDING
SCALE: 1:150



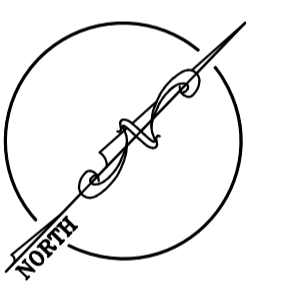
NEW WEST ELEVATION EDUCATION BUILDING
SCALE: 1:150

A	A - DETAIL	A
B	B - LOCATION/DRAWING No.	B C
C	C - DRAWING No.	

No.	REVISION	DATE
R3	ISSUED FOR ADDENDUM#2	APR, 2026
R1	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
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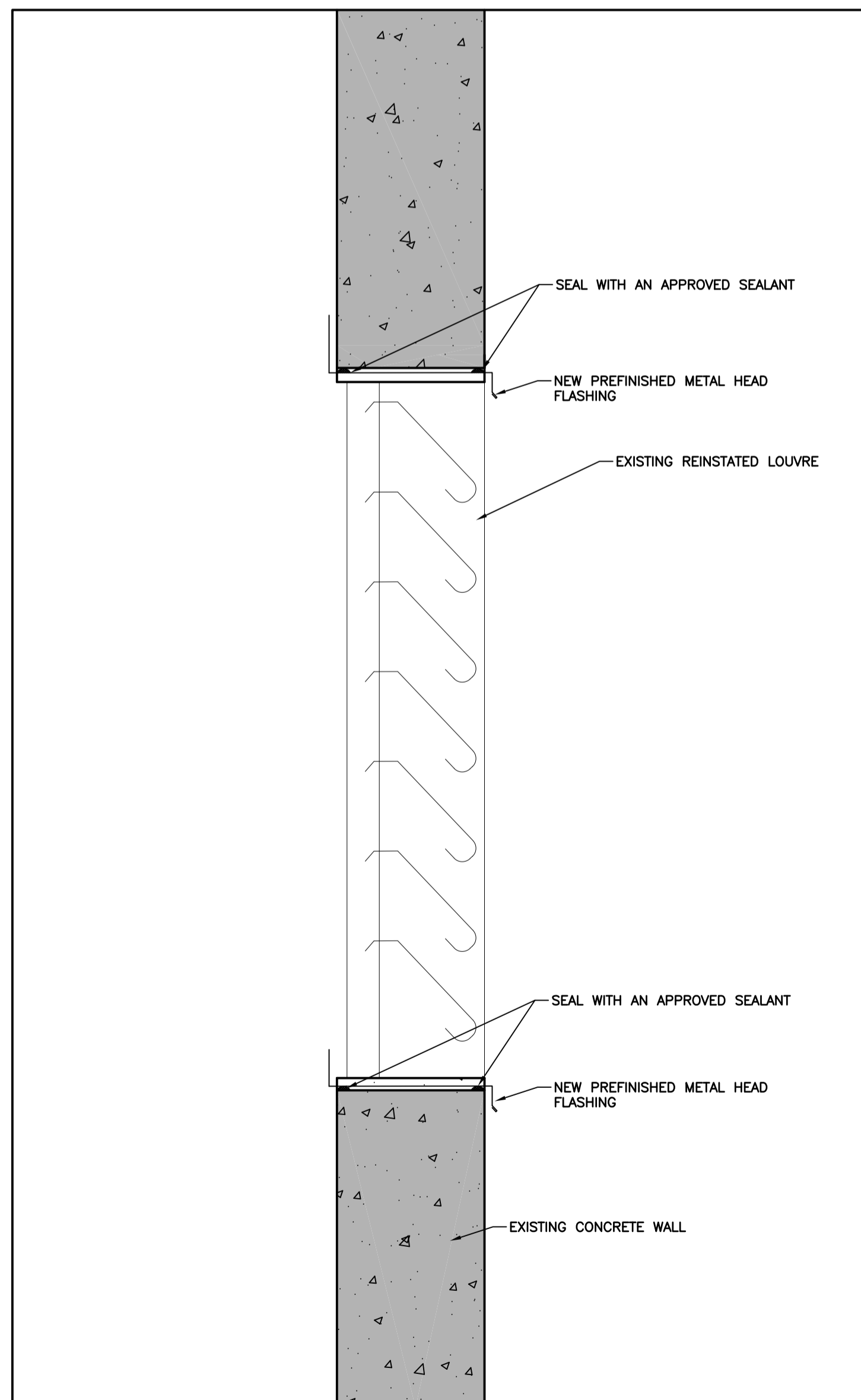
PROJECT NAME:

ACADEMIC TUNNELS
RE-WATERPROOFING CP-1
Project #: TA-511-25

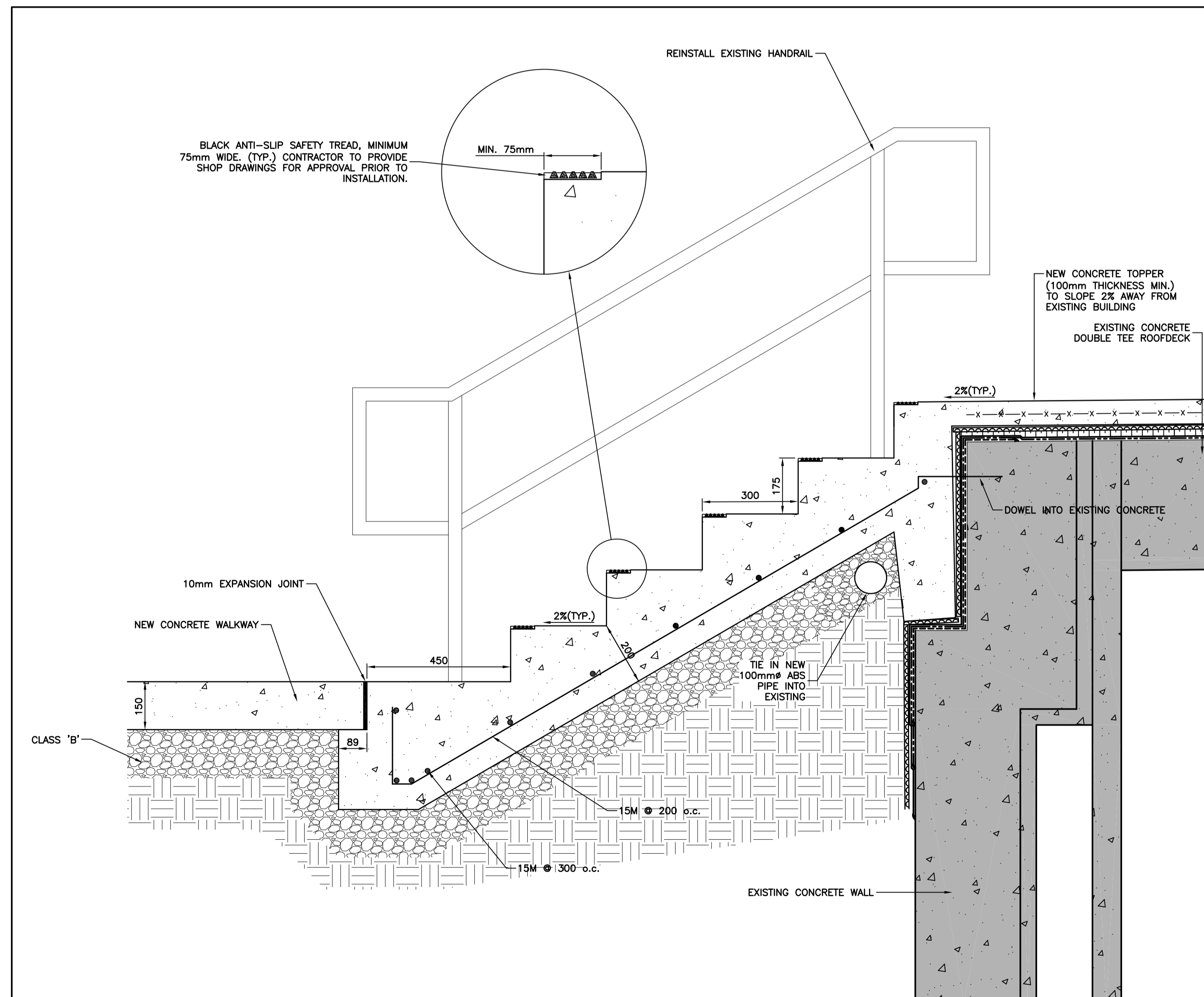
DRAWING TITLE:

SECTIONS AND DETAILS

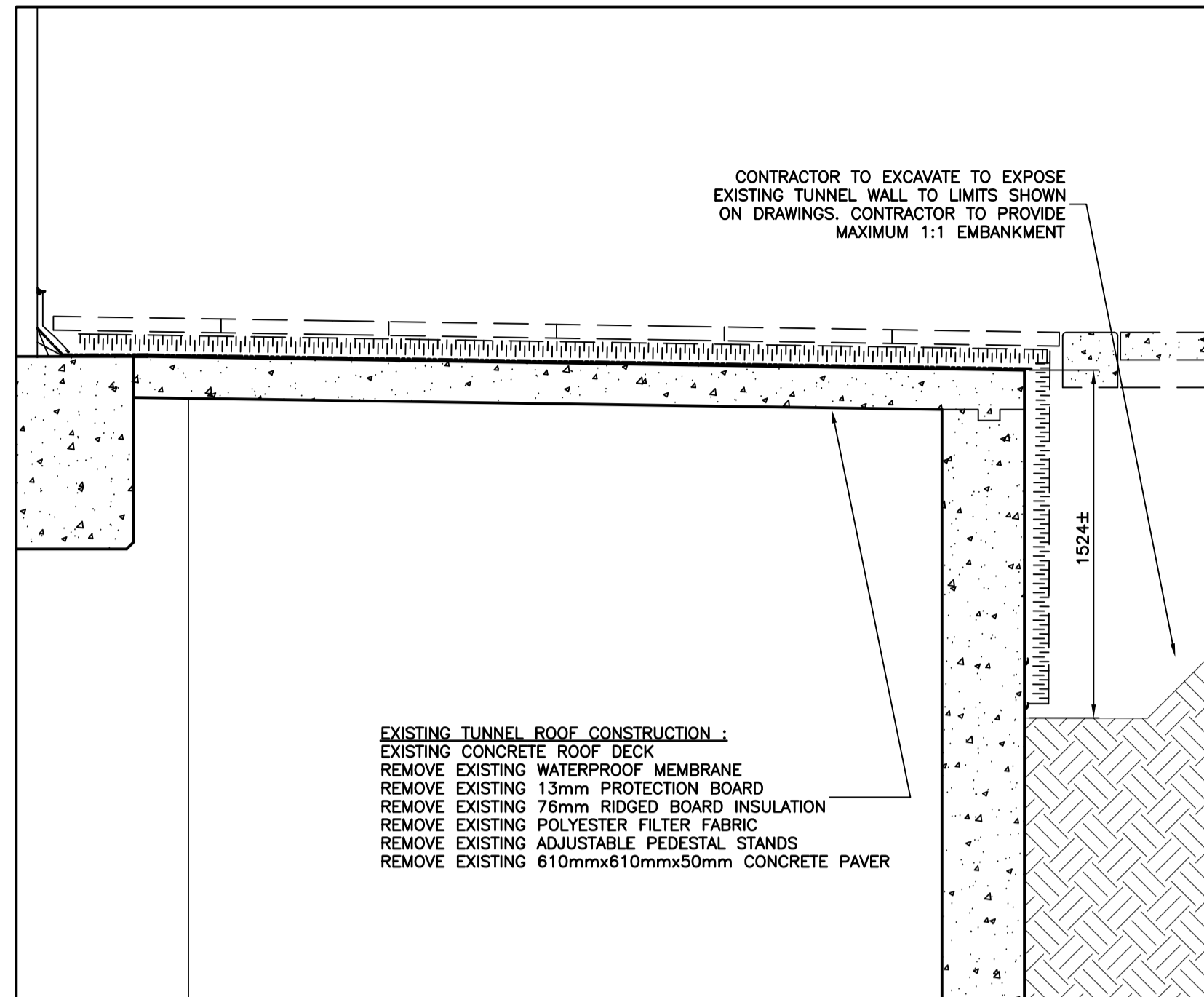
DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.1



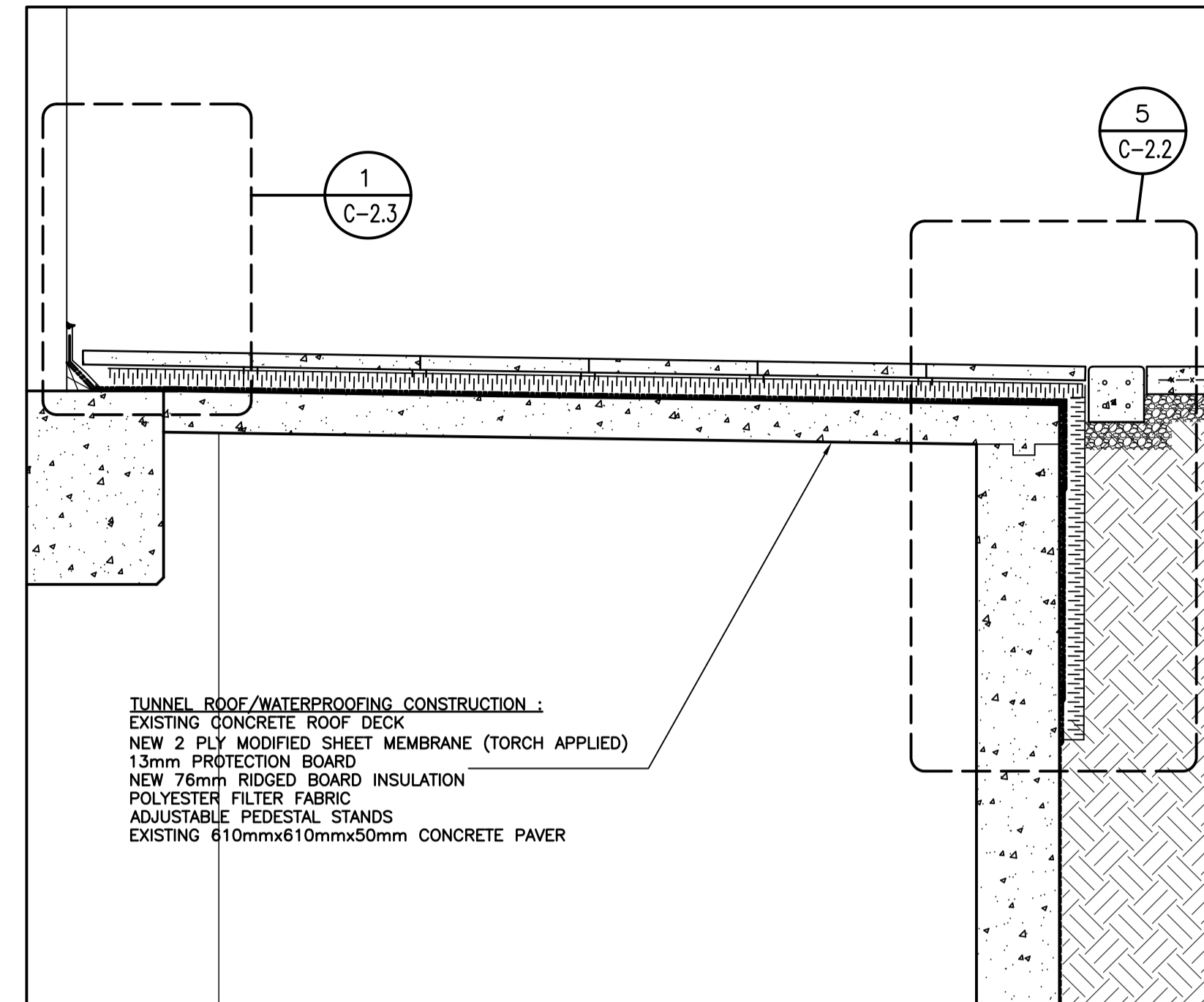
EDUCATION BUILDING LOUVRE DETAIL
SCALE: 1:10



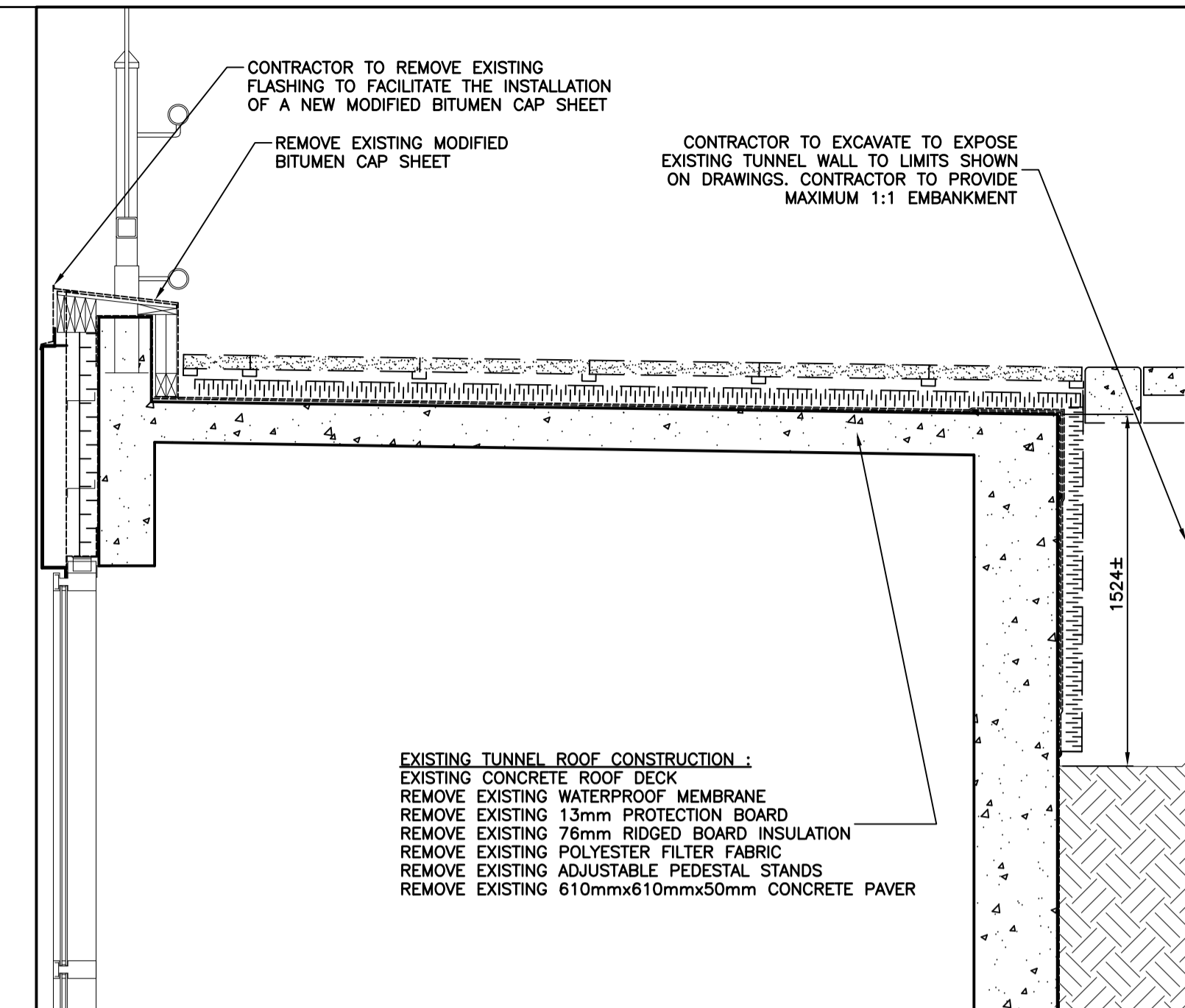
NEW STAIRS AT EDUCATION BUILDING DETAIL
SCALE: 1:10



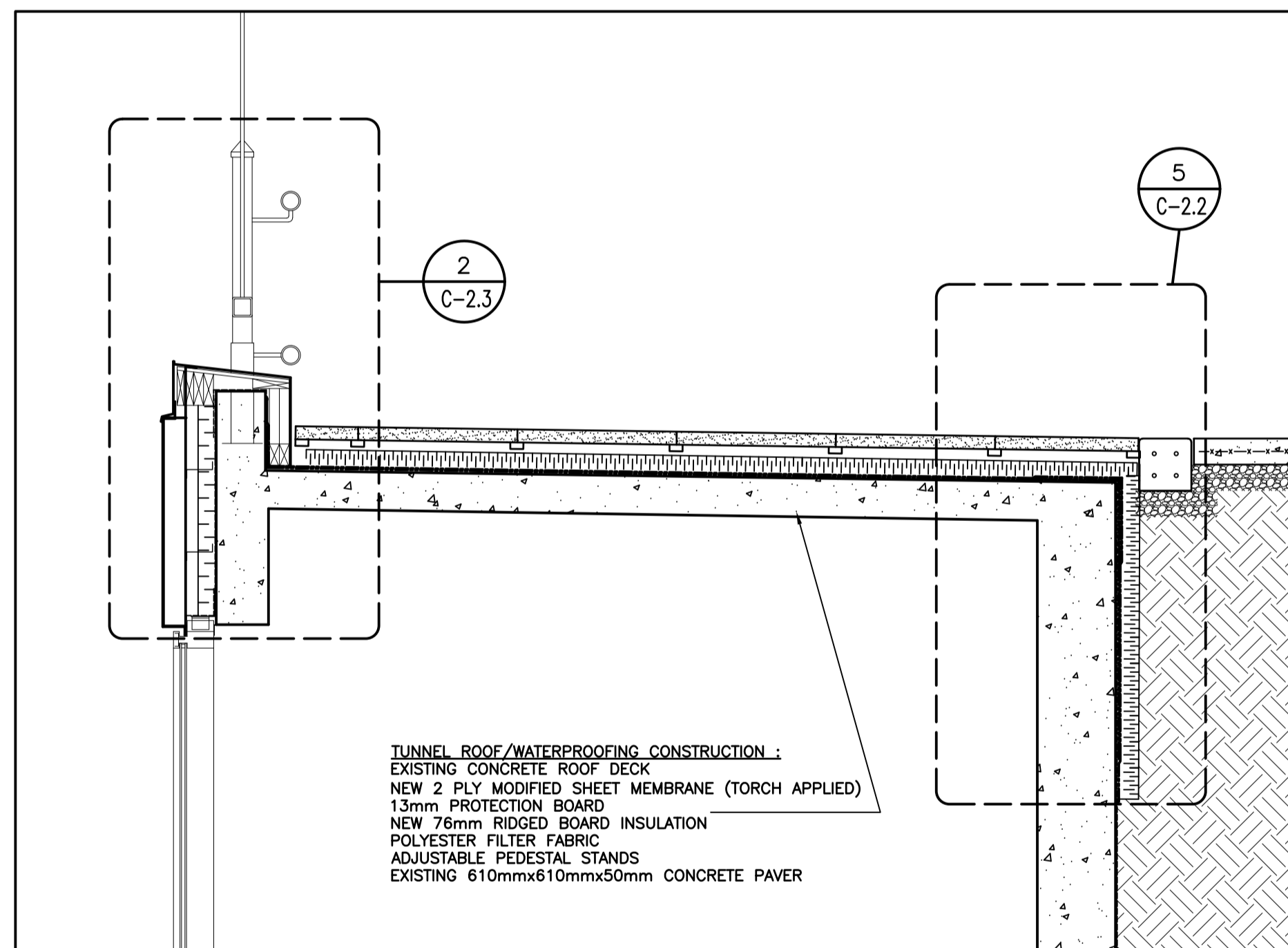
REMOVAL TUNNEL SECTION
 SCALE: 1:20



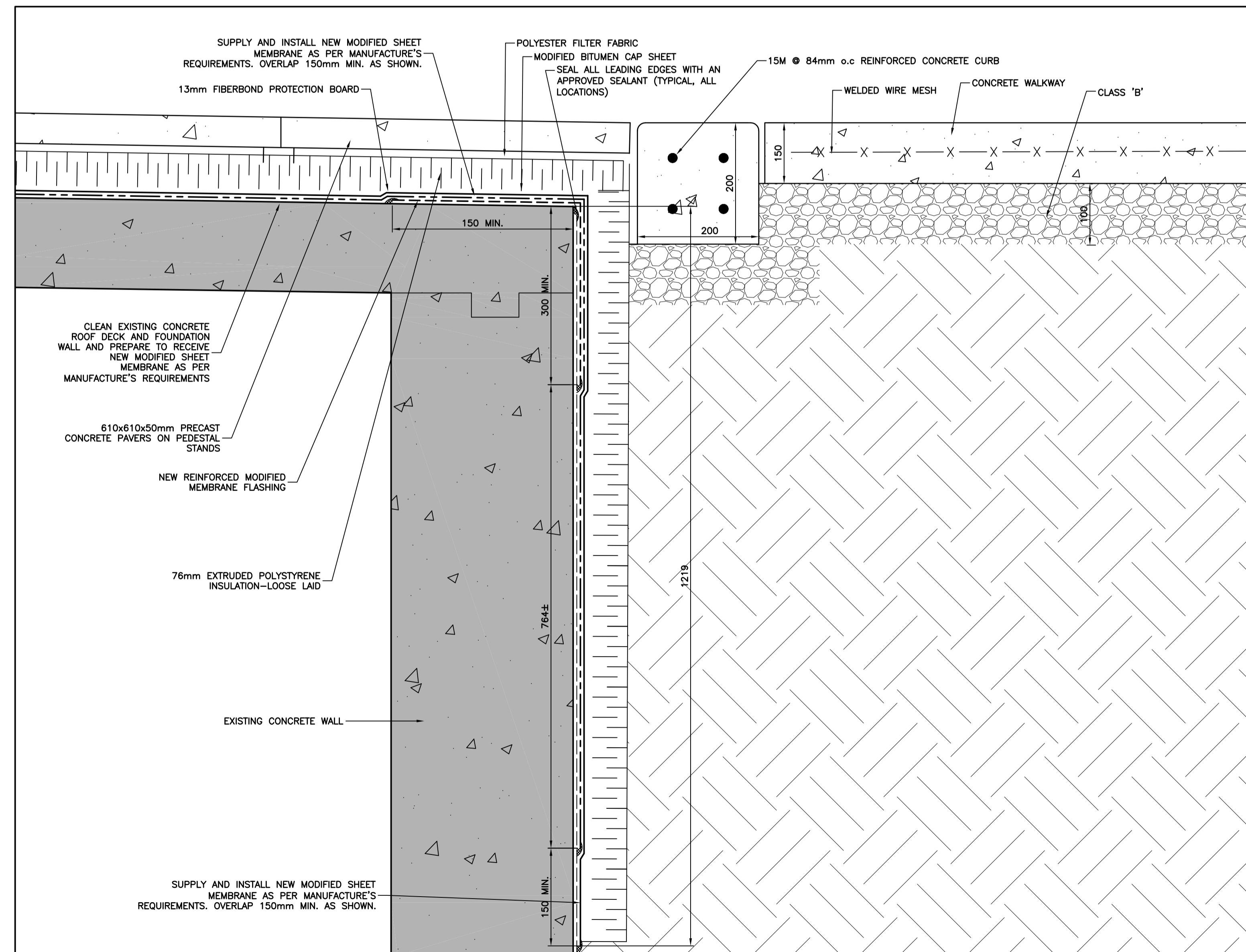
NEW TUNNEL SECTION
 SCALE: 1:20



REMOVAL TUNNEL SECTION
 SCALE: 1:30



NEW TUNNEL SECTION
 SCALE: 1:20



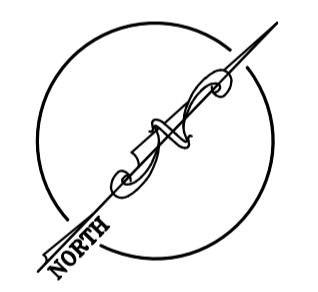
NEW WATERPROOF MEMBRANE: TYPICAL ROOF WALL INTERSECTION DETAIL
 SCALE: 1:5

A	A - DETAIL	A
B	B - LOCATION/DRAWING No.	B C
C	C - DRAWING No.	

No.	REVISION	DATE
R3	ISSUED FOR ADDENDUM#2	APR, 2026
R2	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
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MEMORIAL UNIVERSITY
FACILITIES MANAGEMENT

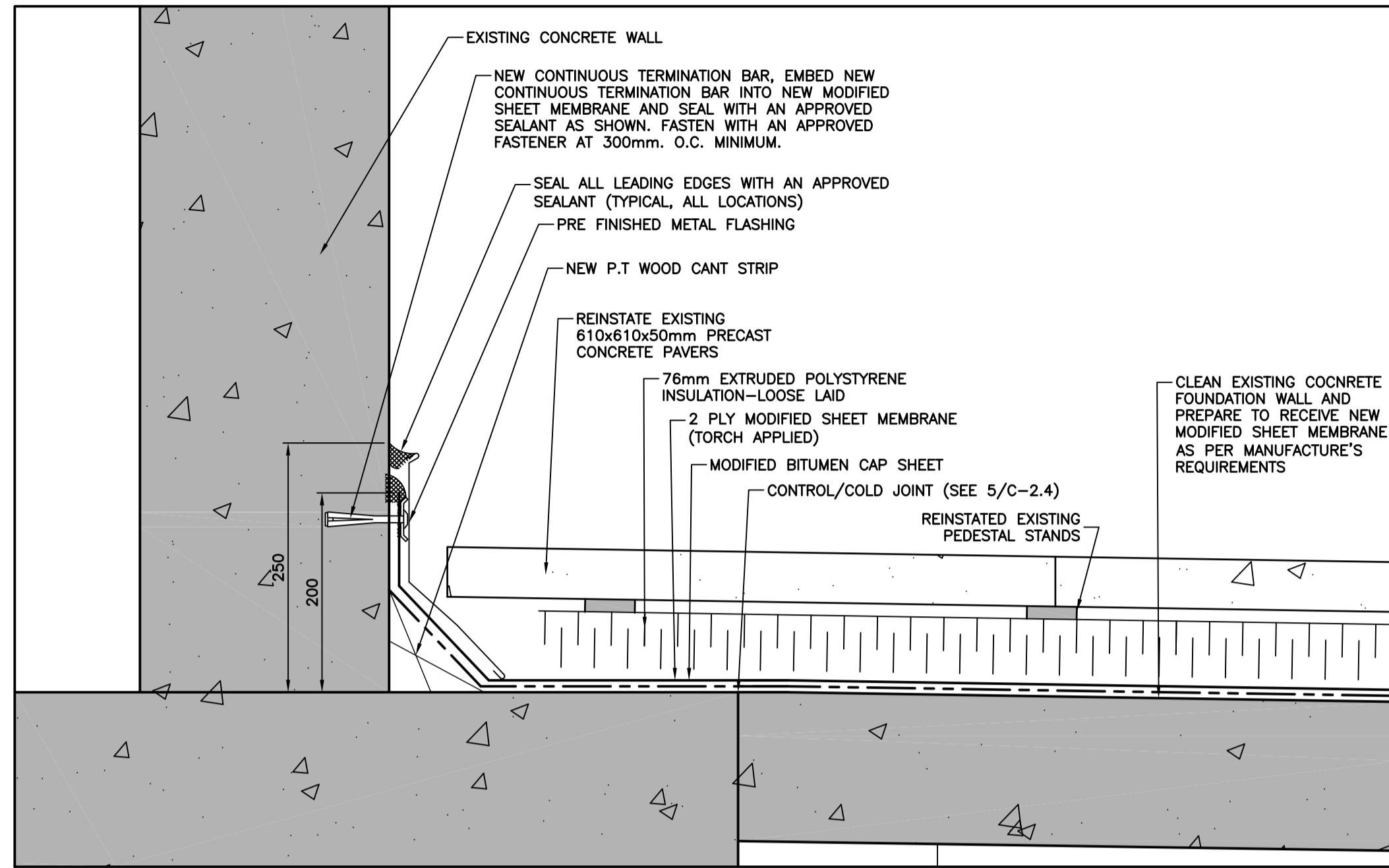
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- Dedication plaque, Arts & Administration Building, St. John's Campus

PROJECT NAME:
**ACADEMIC TUNNELS
 RE-WATERPROOFING CP-1**
 Project #: TA-511-25

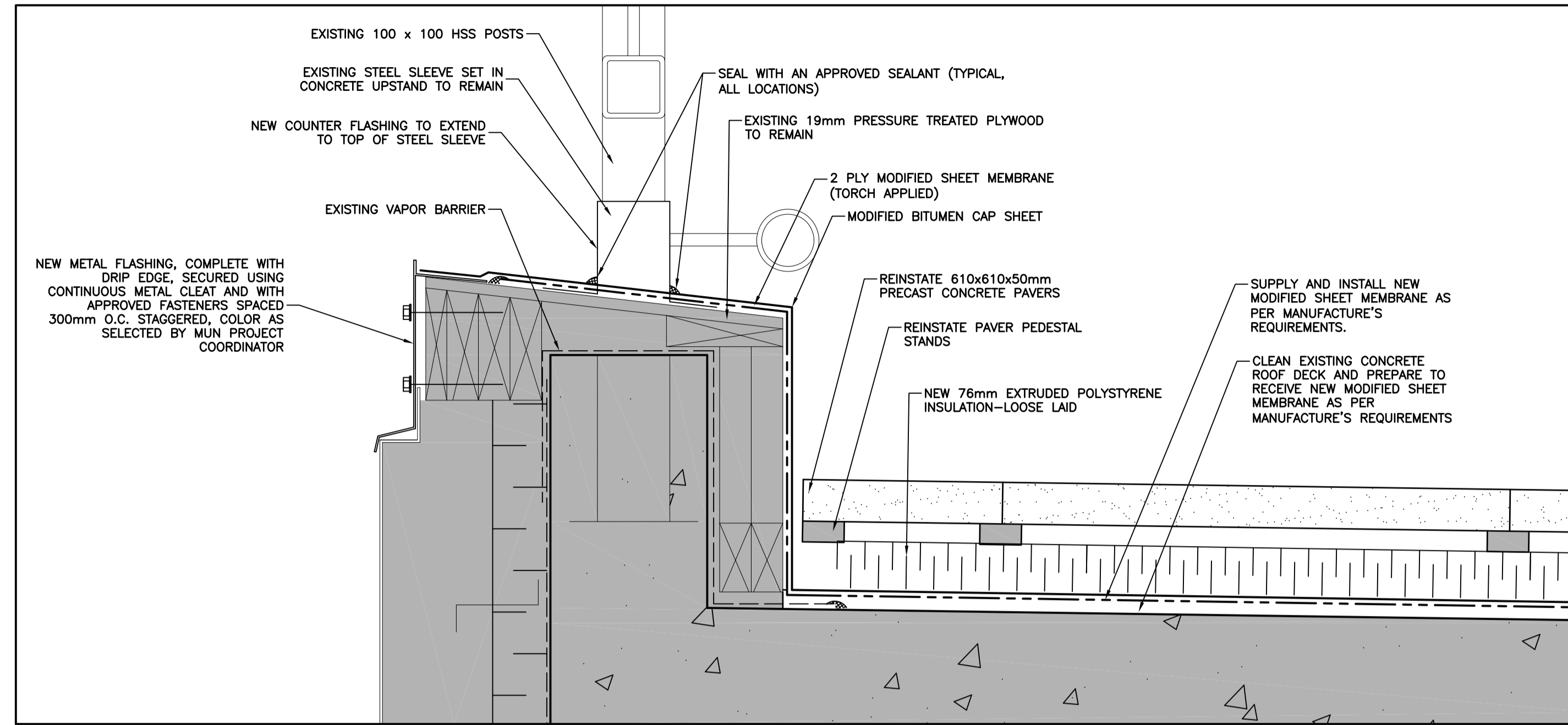
DRAWING TITLE:
SECTIONS AND DETAILS

DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.2



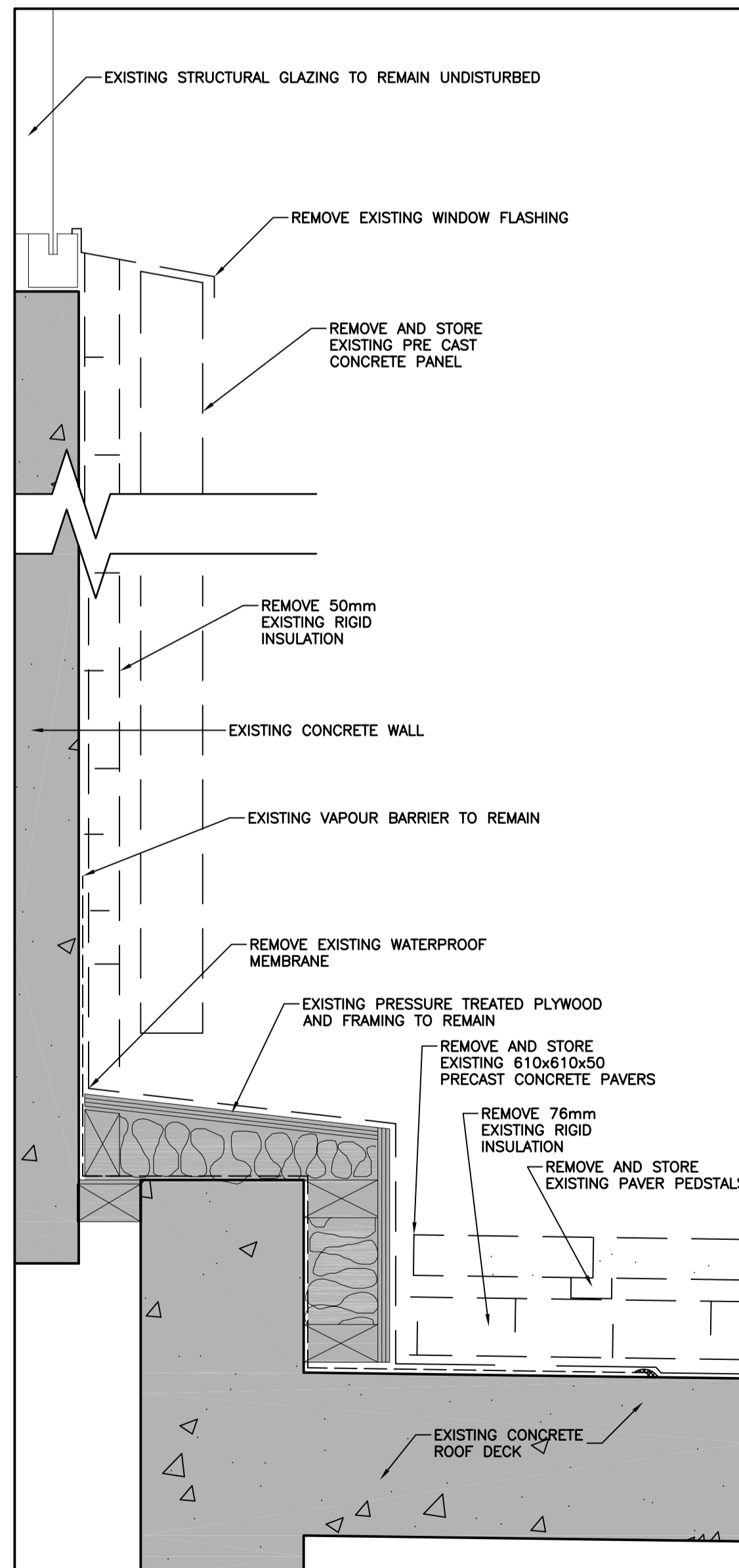
NEW WATERPROOF MEMBRANE: TYPICAL ROOF WALL INTERSECTION DETAIL
SCALE: 1:5

1
C-2.3



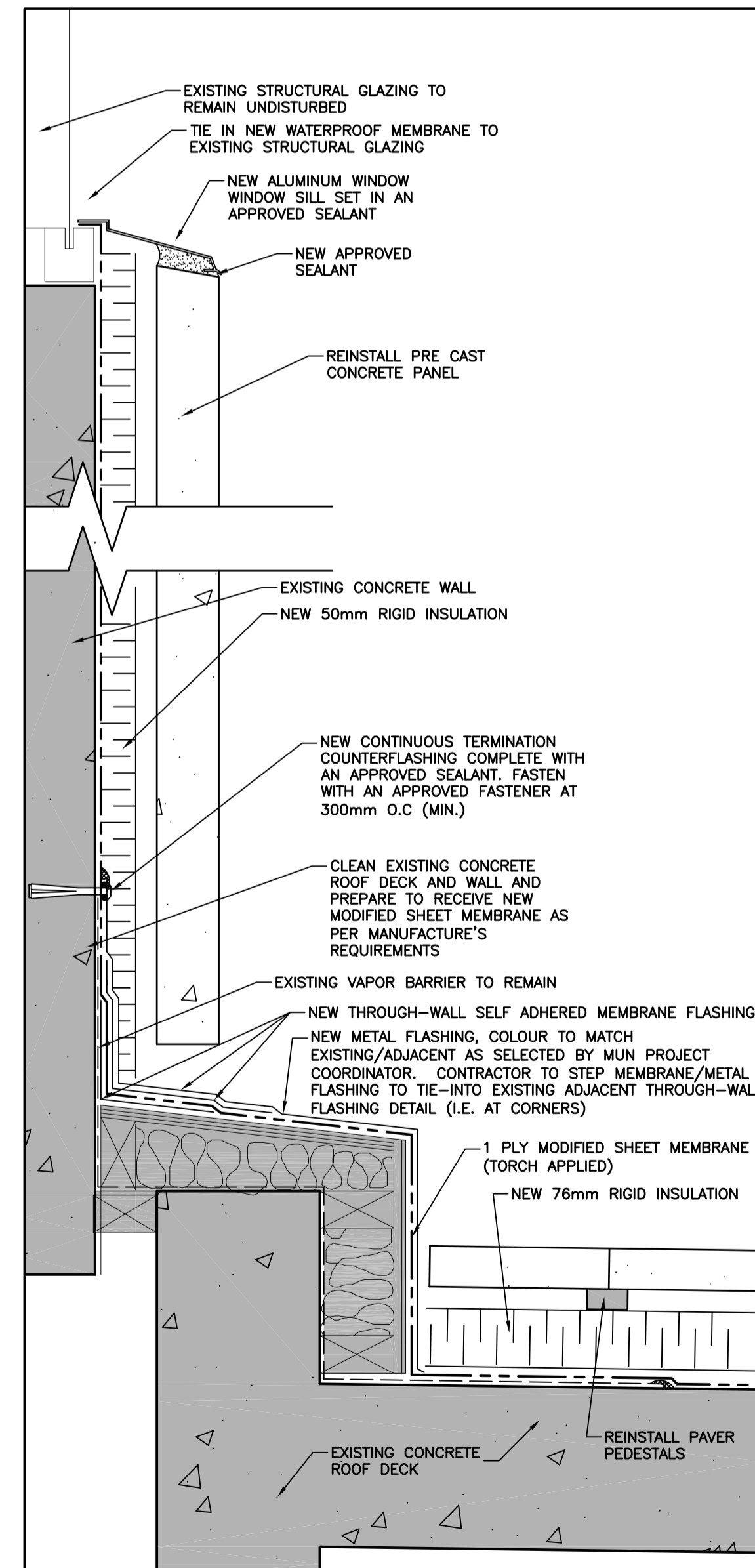
NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/PARAPET INTERSECTION DETAIL
SCALE: 1:5

2
C-2.3



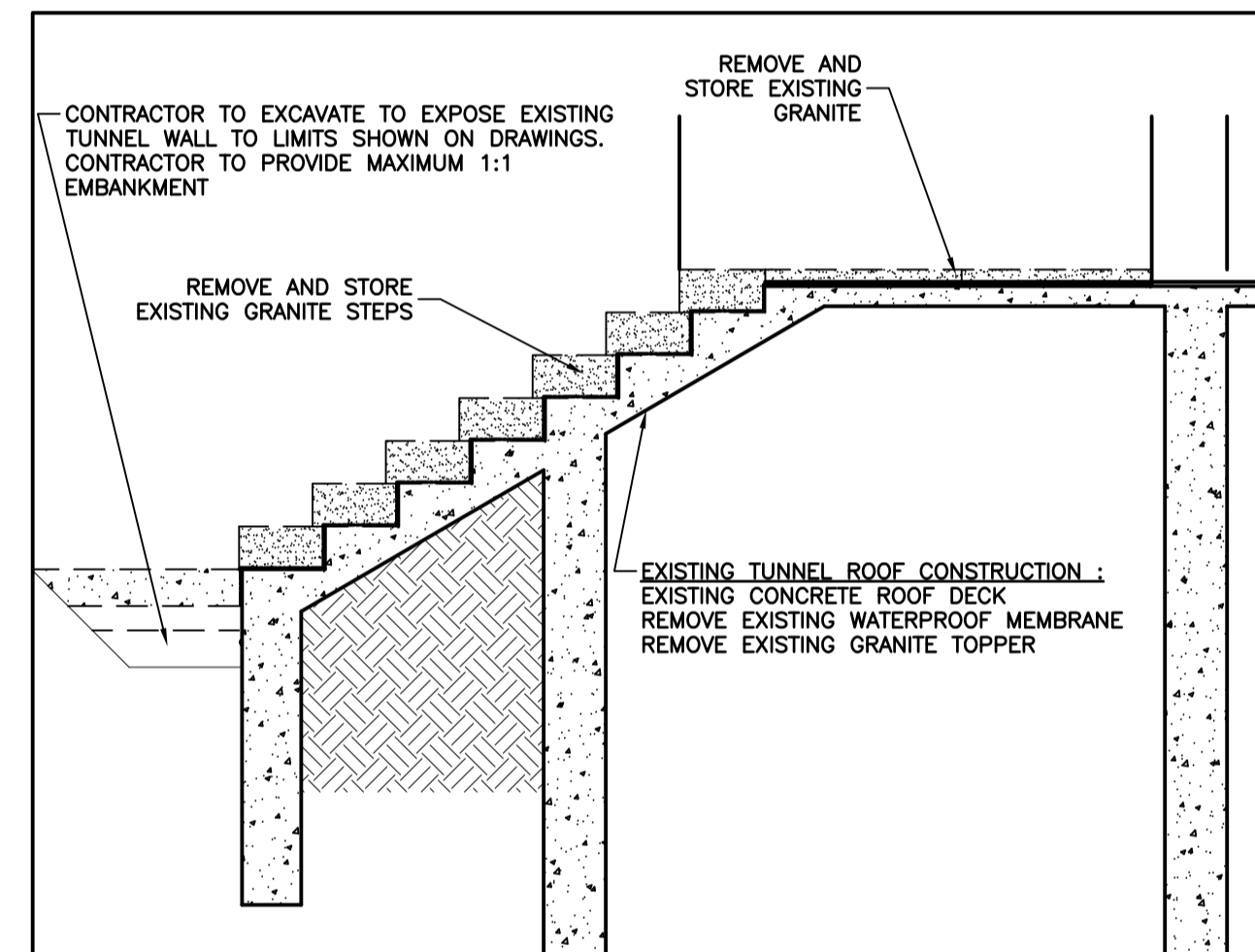
REMOVAL ROOF/WALL INTERSECTION DETAIL
SCALE: 1:5

3
C-2.3



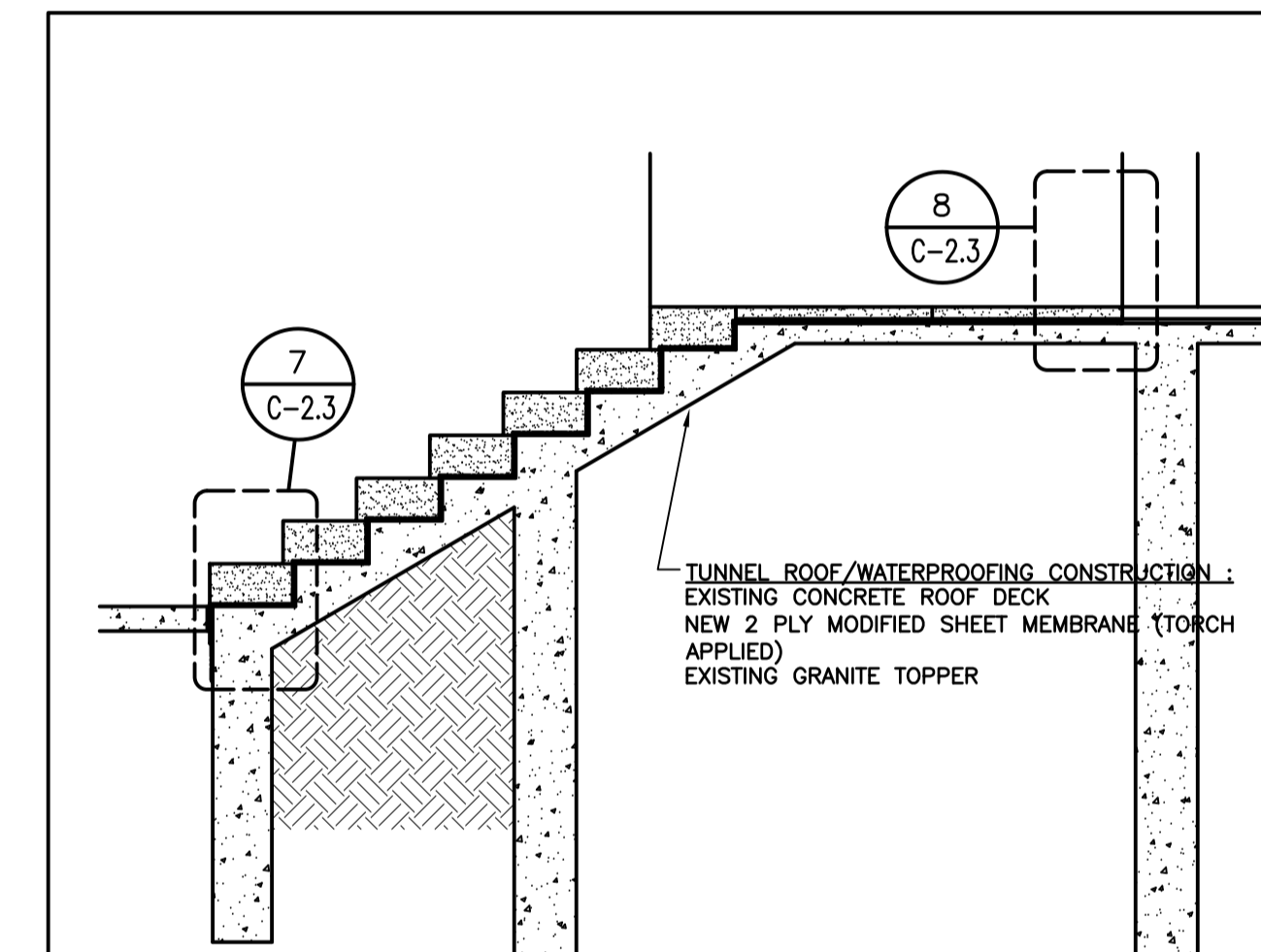
NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/WALL INTERSECTION DETAIL
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4
C-2.3



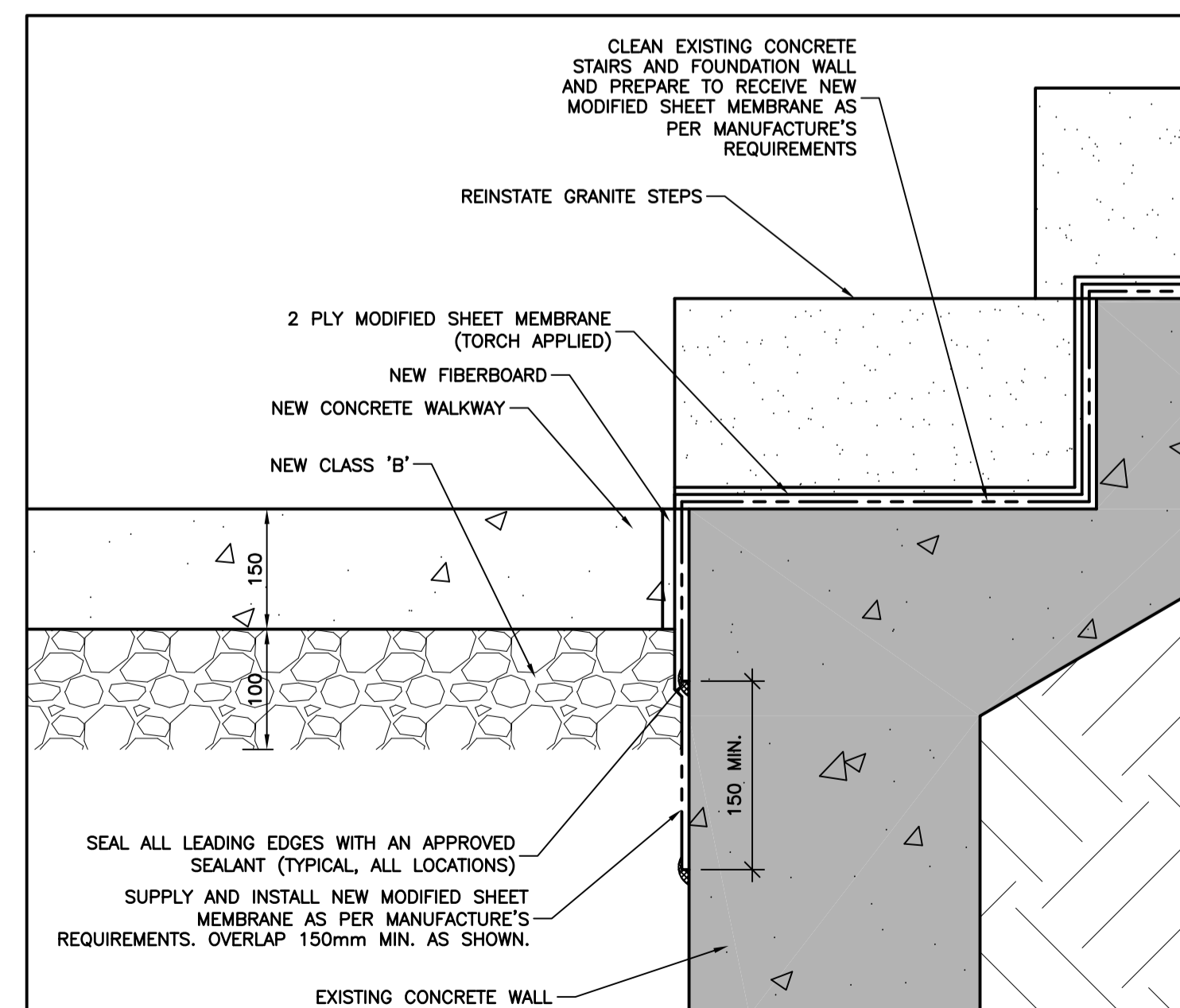
REMOVAL TUNNEL SECTION
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5
C-2.3



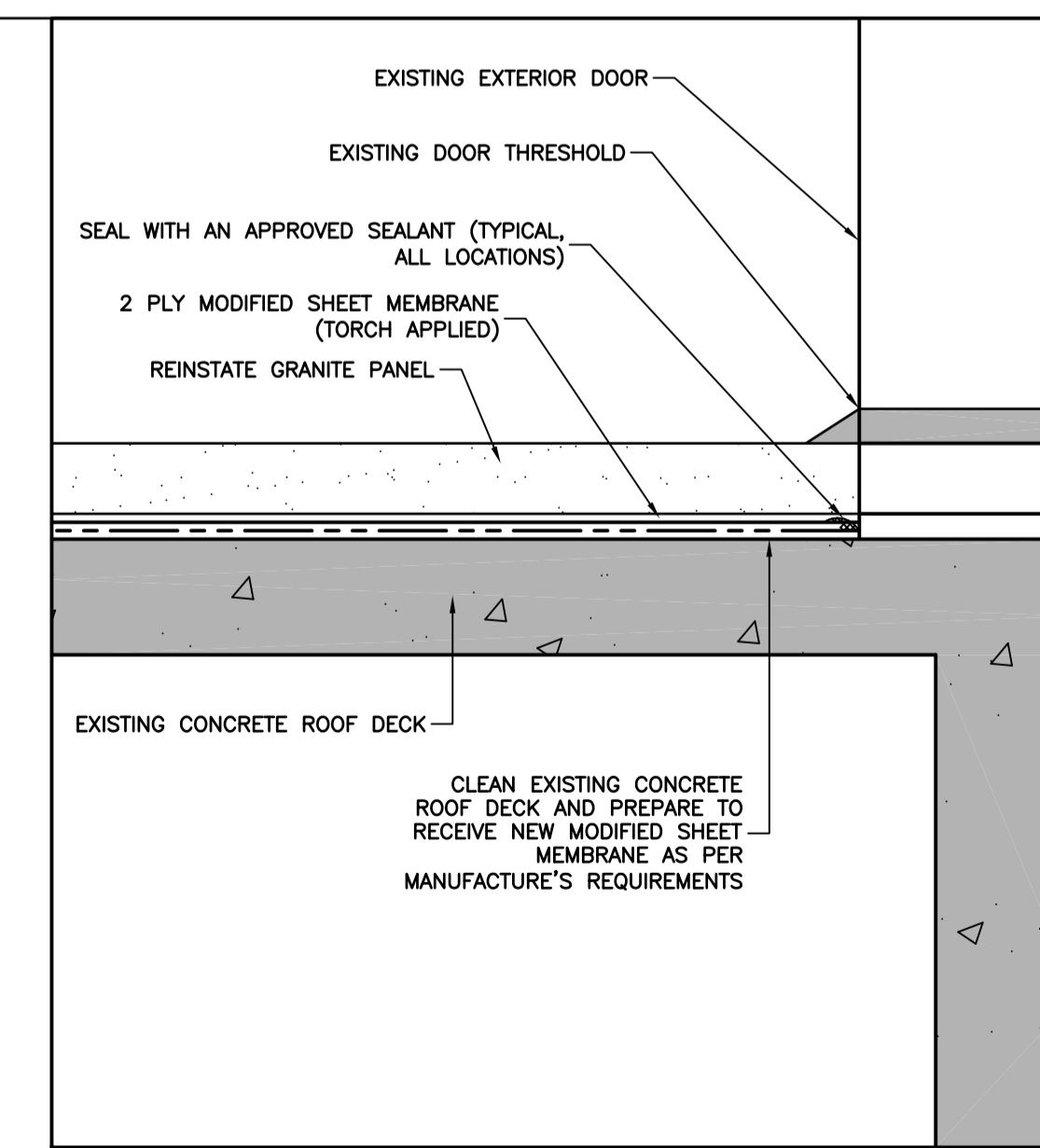
NEW TUNNEL SECTION
SCALE: 1:30

6
C-2.3



NEW WATERPROOFING MEMBRANE: TYPICAL STAIRS DETAIL
SCALE: 1:5

7
C-2.3



NEW WATERPROOFING MEMBRANE: TYPICAL ROOF TO DOOR THRESHOLD DETAIL
SCALE: 1:5

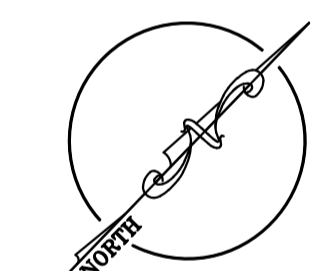
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C-2.3

A - DETAIL
B - LOCATION/DRAWING No.
C - DRAWING No.

No.	REVISION	DATE
R3	ISSUED FOR ADDENDUM#2	APR, 2026
R2	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
R0	ISSUED FOR REVIEW	MAR, 2026

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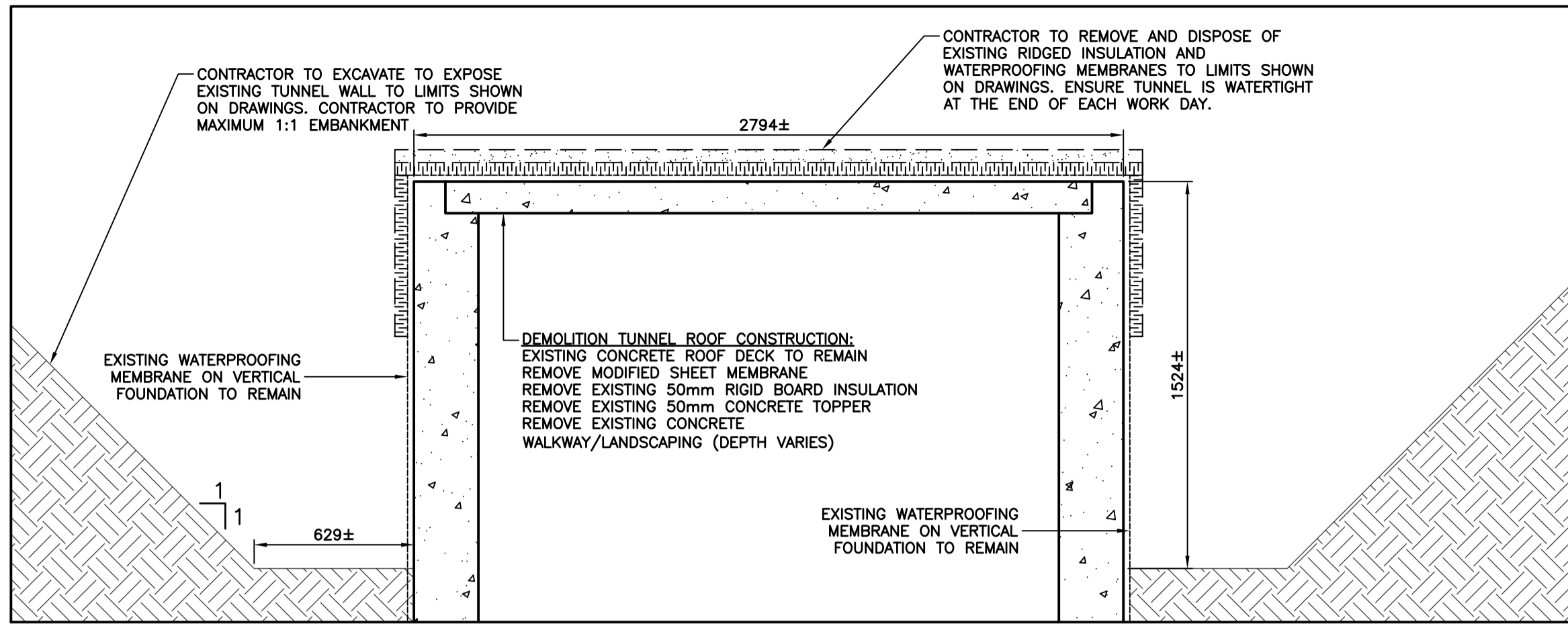


MEMORIAL UNIVERSITY
FACILITIES MANAGEMENT
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- Dedication plaque, Arts & Administration Building, St. John's Campus

PROJECT NAME:
**ACADEMIC TUNNELS
RE-WATERPROOFING CP-1**
Project #: TA-511-25

DRAWING TITLE:
SECTIONS AND DETAILS

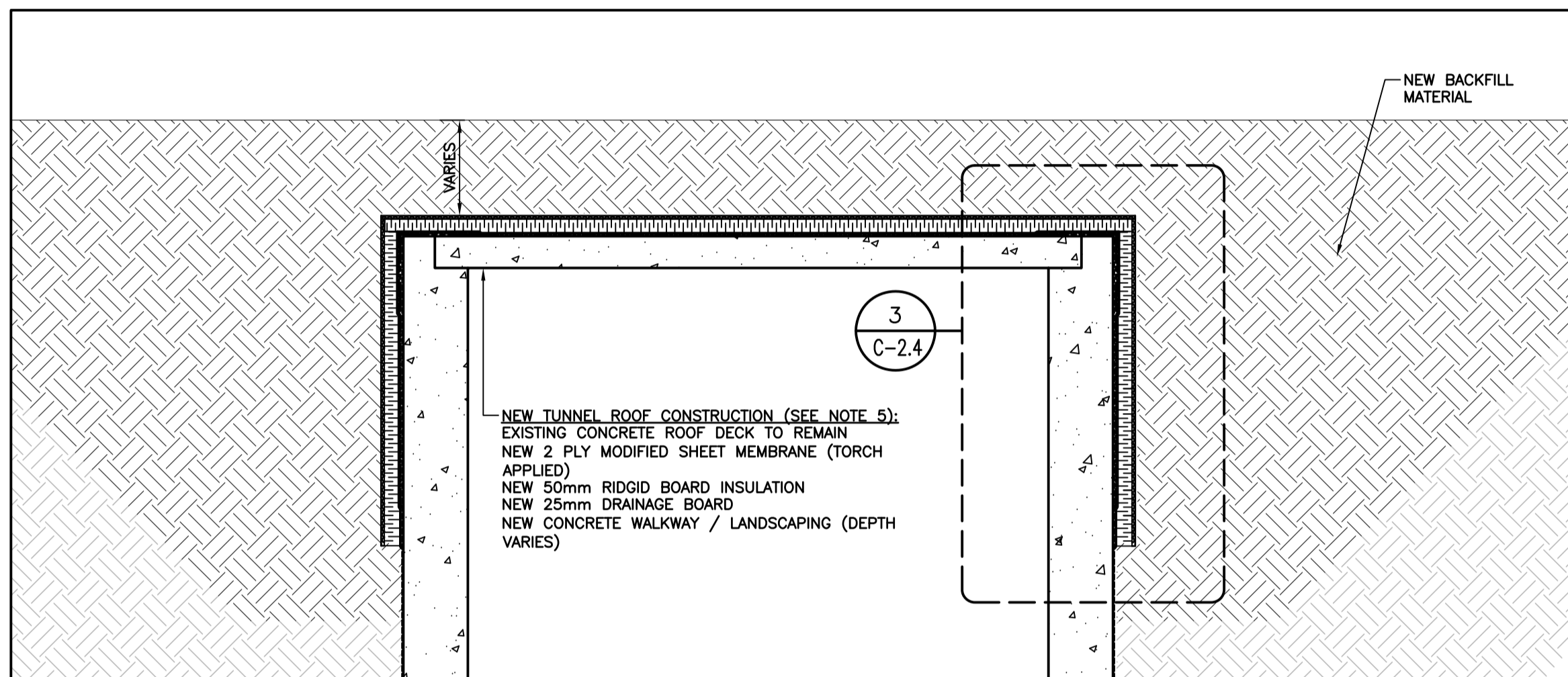
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REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.3



DEMOLITION TUNNEL SECTION

SCALE: 1:20

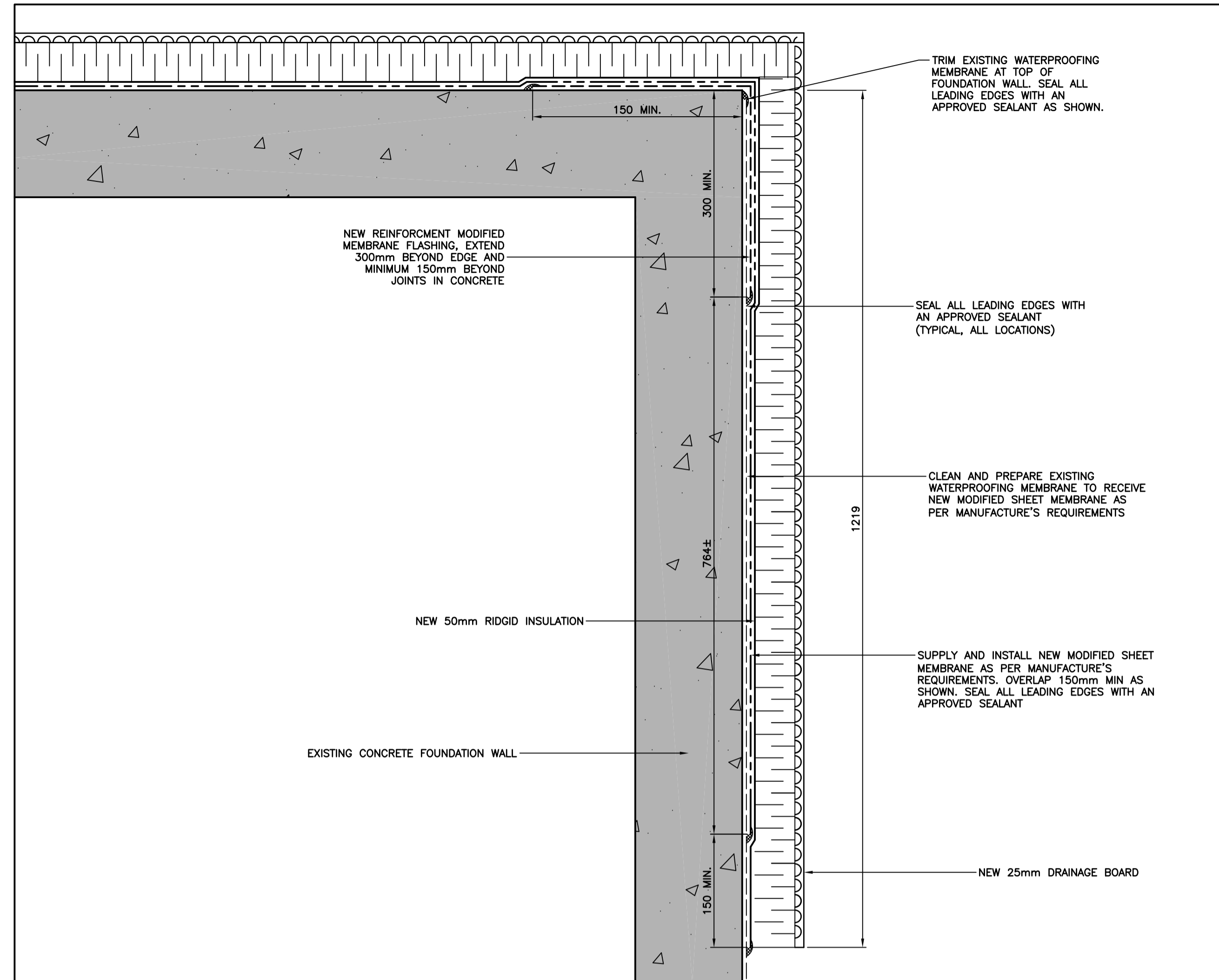
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C-2.4



NEW TUNNEL SECTION

SCALE: 1:20

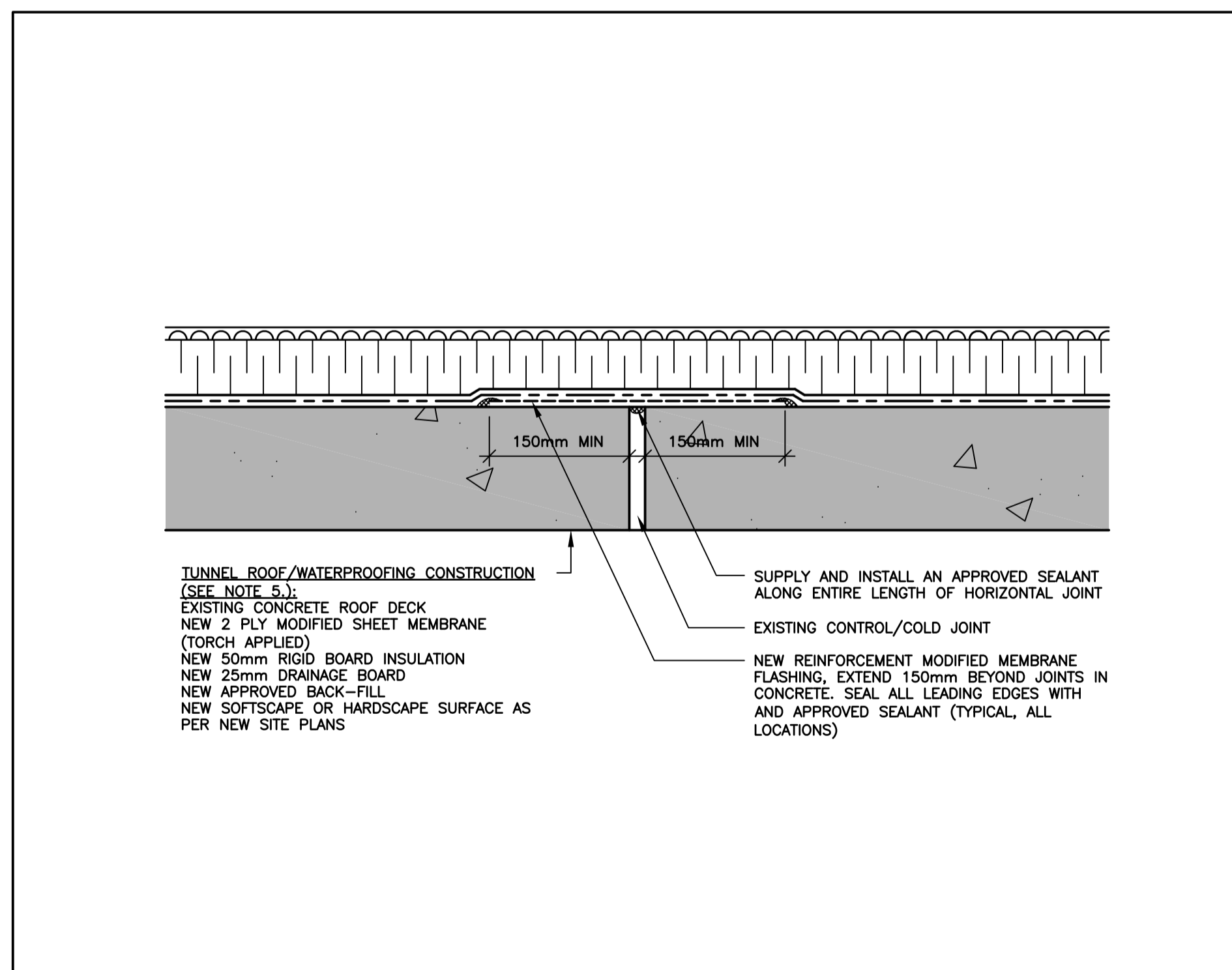
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C-2.4



NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/WALL DETAIL

SCALE: 1:5

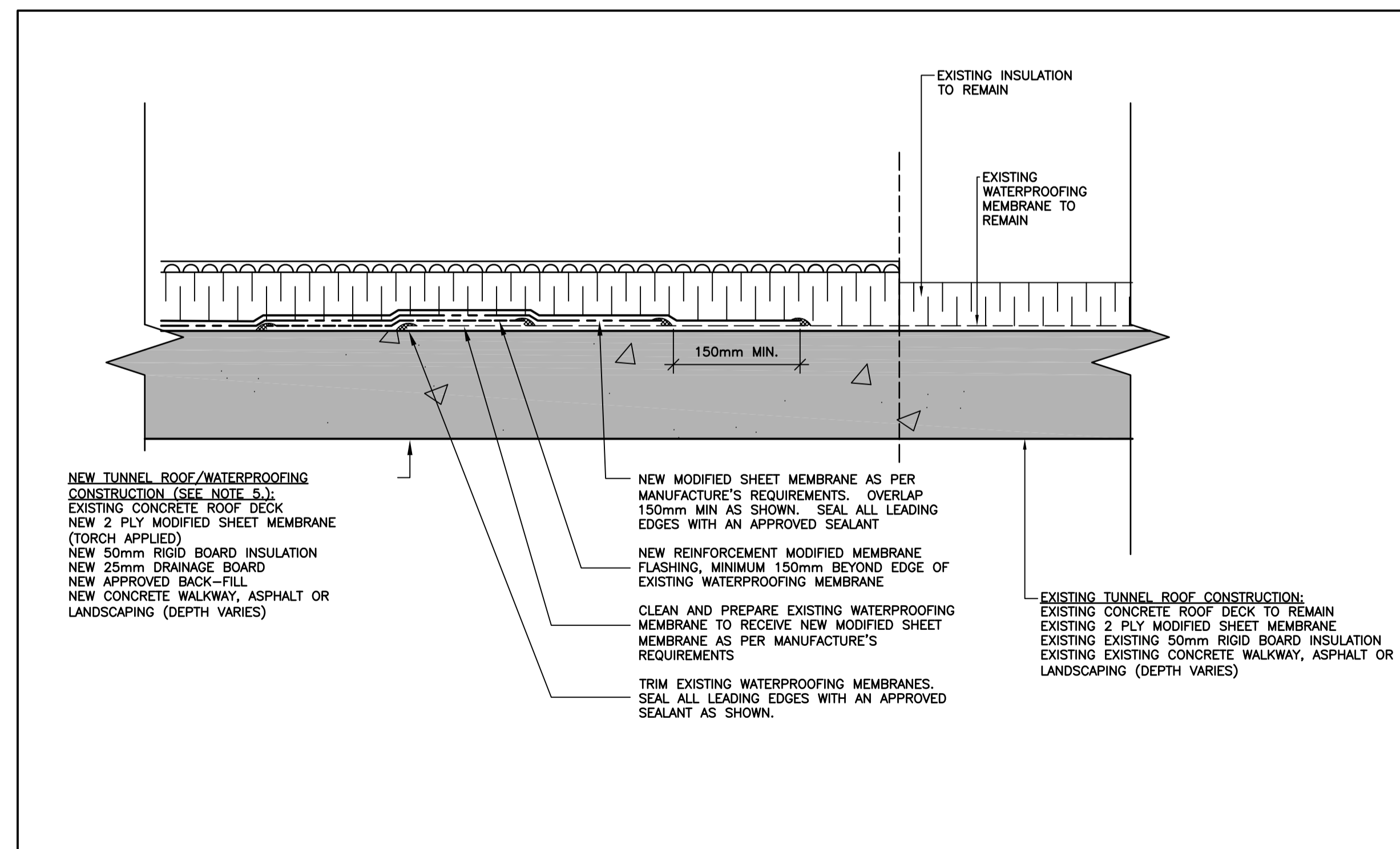
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C-2.4



CONTROL/COLD JOINT DETAIL

SCALE: 1:5

4
C-2.4



NEW TO EXISTING WATERPROOFING MEMBRANE DETAIL

SCALE: 1:5

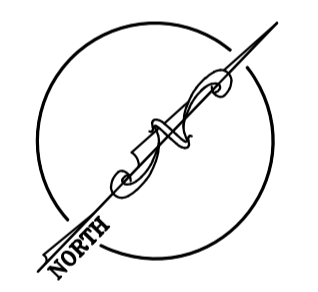
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C-2.4

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No.	REVISION	DATE
R3	ISSUED FOR ADDENDUM#2	APR, 2026
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R1	ISSUED FOR TENDER	APR, 2026
R0	ISSUED FOR REVIEW	MAR, 2026

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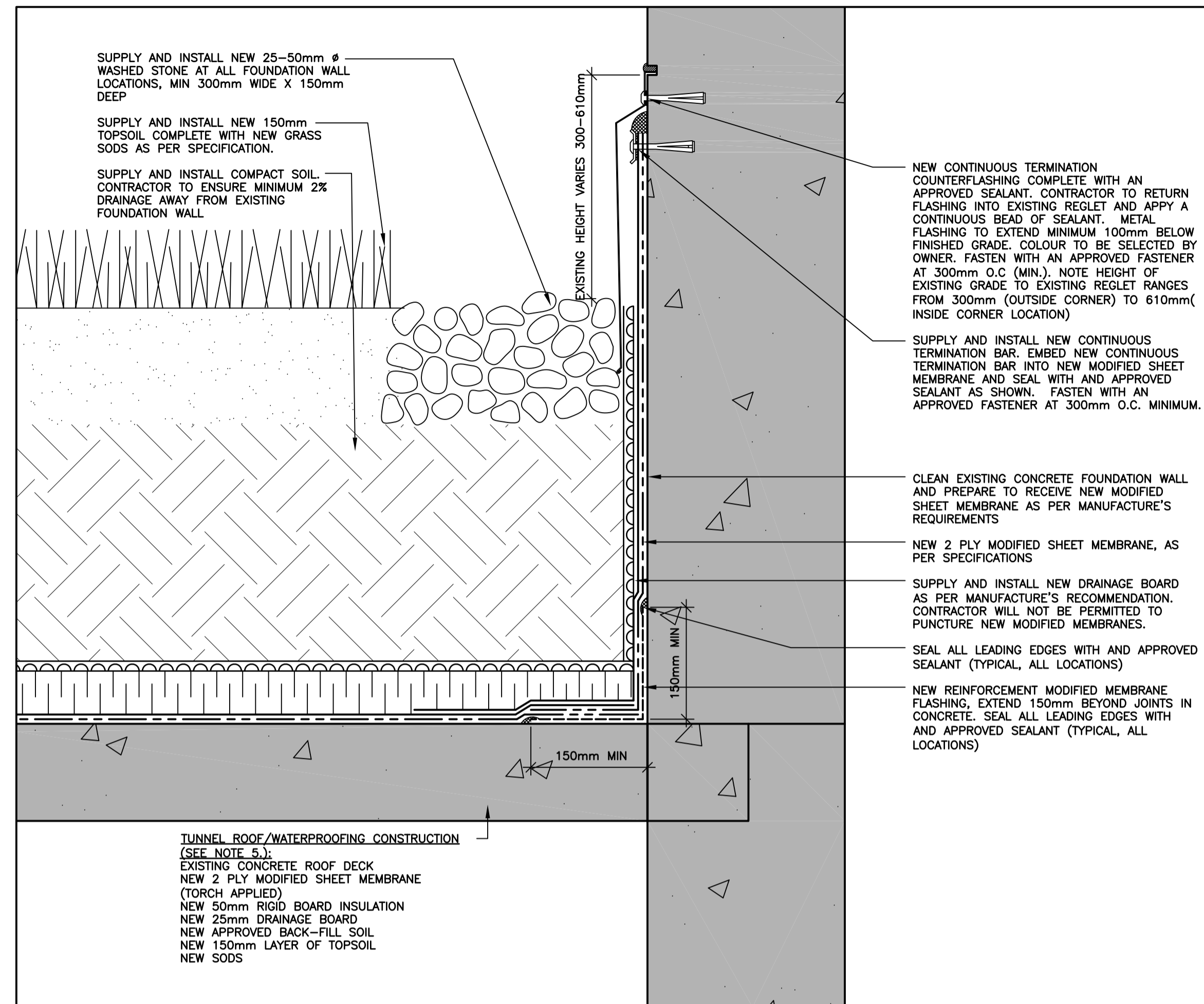
PROJECT NAME:

ACADEMIC TUNNELS
RE-WATERPROOFING CP-1
Project #: TA-511-25

DRAWING TITLE:

SECTIONS AND DETAILS

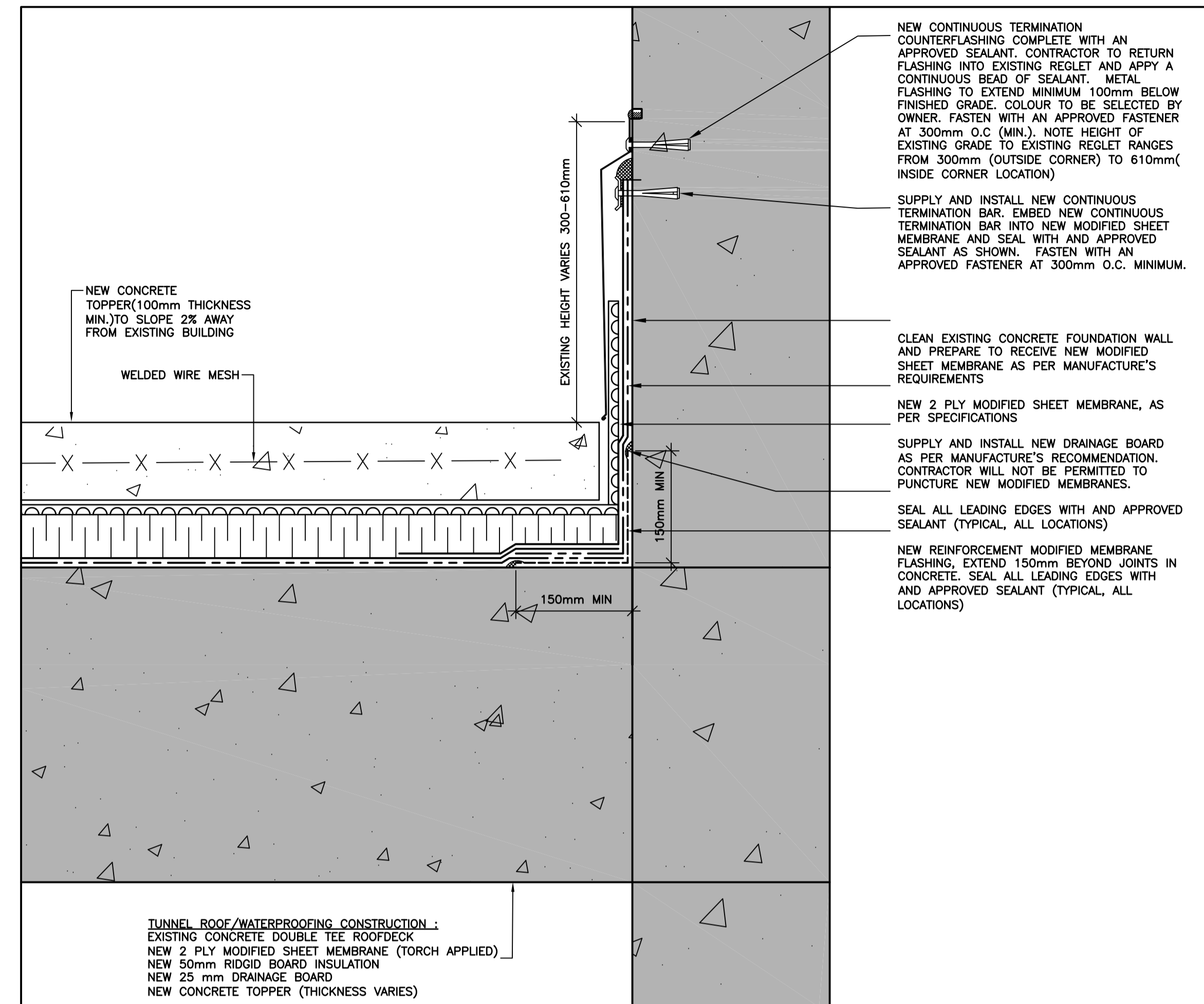
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REVIEWED:	J.A	APPROVED:	E.H
SCALE:	AS SHOWN	DATE:	APRIL, 2026
PROJECT No.	TA-511-25	DRAWING No.	C-2.4



NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/WALL INTERSECTION DETAIL

SCALE: 1:5

1
C-2.5



NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/WALL INTERSECTION DETAIL

SCALE: 1:5

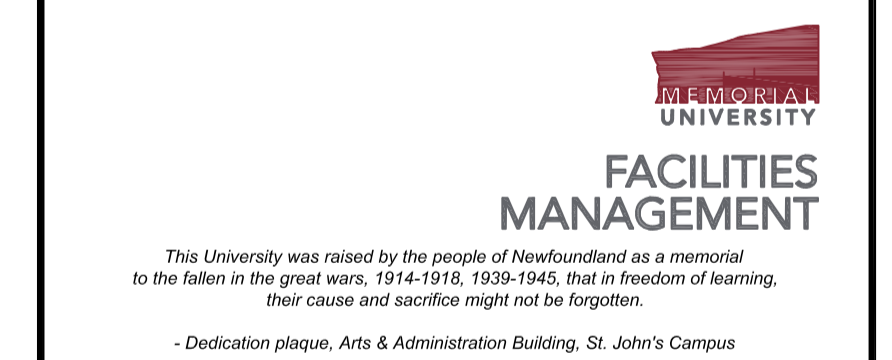
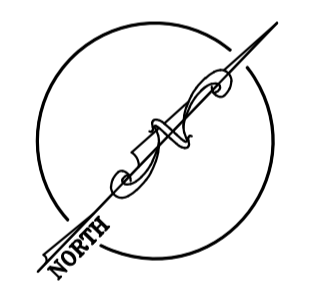
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No.	REVISION	DATE
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- AFTER REINFORCING STEEL SHALL HAVE A YIELD STRENGTH OF 400 MPa AND SHALL CONFORM TO CSA-A23 AND CSA G30.18
- MIN CONCRETE COVER OVER REINFORCING STEEL SHALL BE 75mm.
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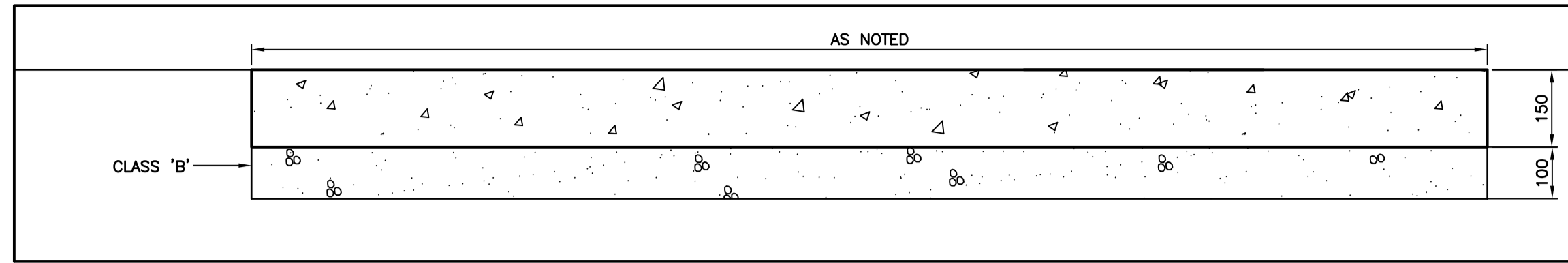
PROJECT NAME:

ACADEMIC TUNNELS
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 Project #: TA-511-25

DRAWING TITLE:

SECTIONS AND DETAILS

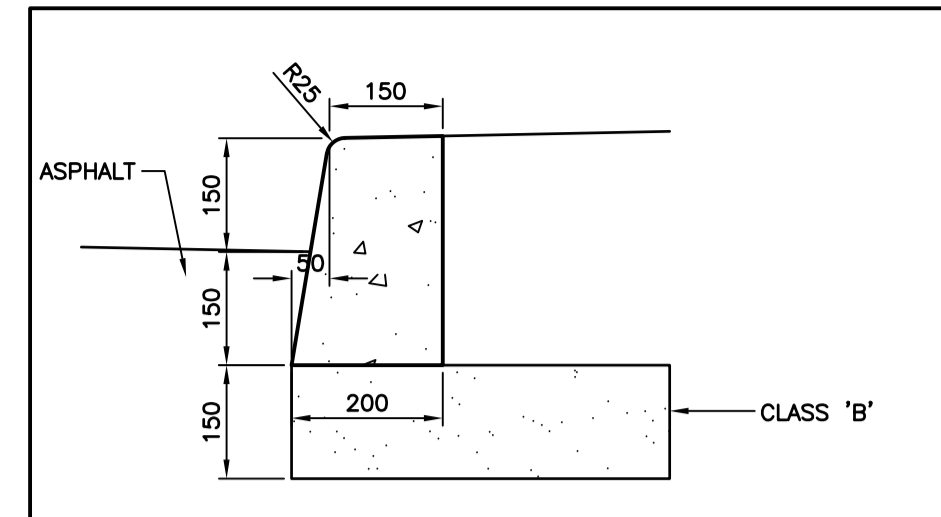
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PROJECT No. TA-511-25	DRAWING No. C-2.5



CONCRETE WALKWAY DETAIL

SCALE: 1:10

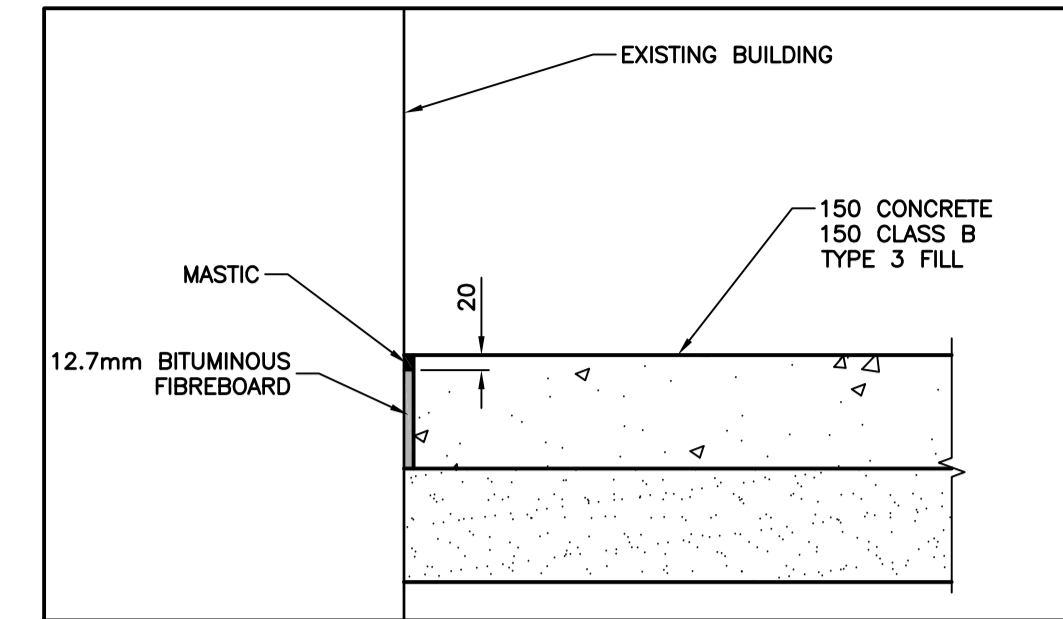
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C-2.6



TYPICAL CURB DETAIL

SCALE: 1:10

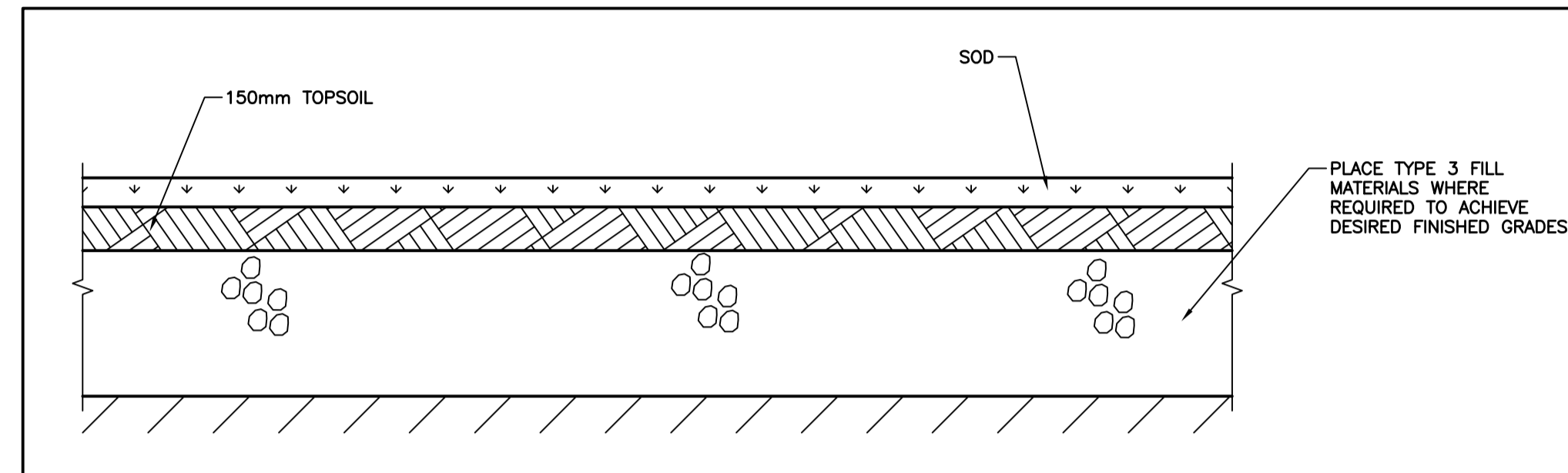
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C-2.6



CONCRETE AT BUILDING DETAIL

SCALE: 1:10

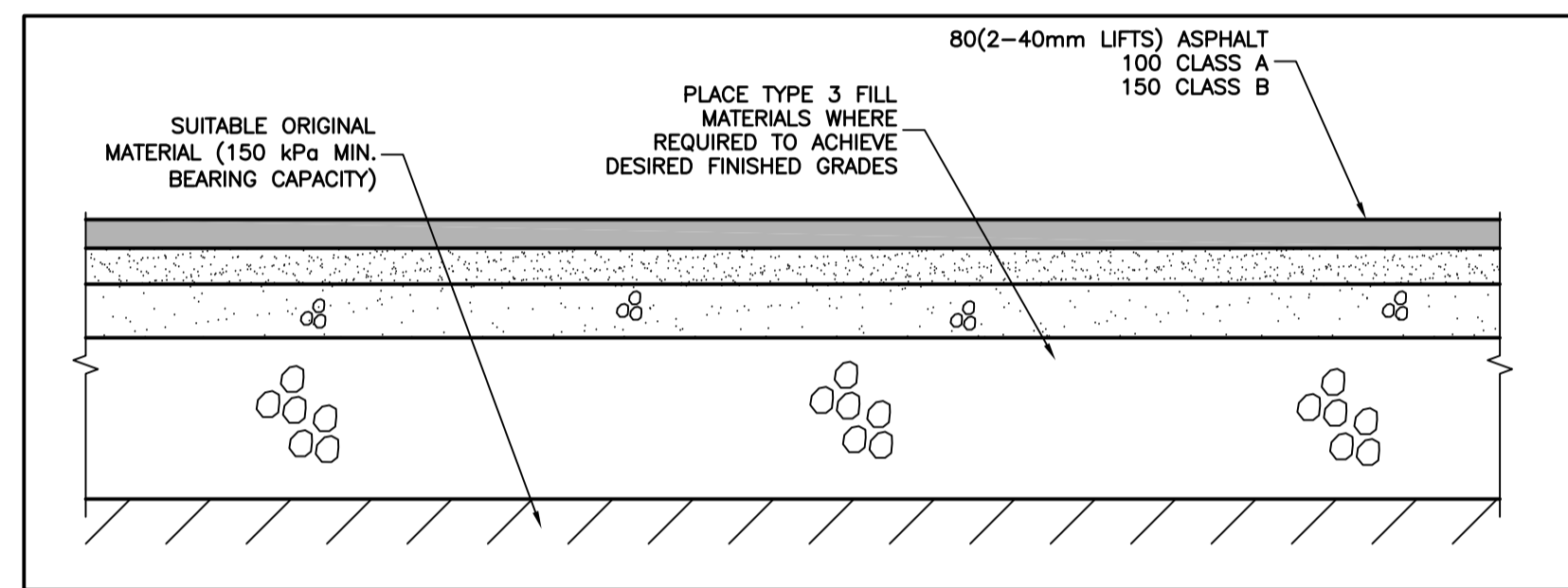
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C-2.6



LANDSCAPING DETAIL

SCALE: 1:10

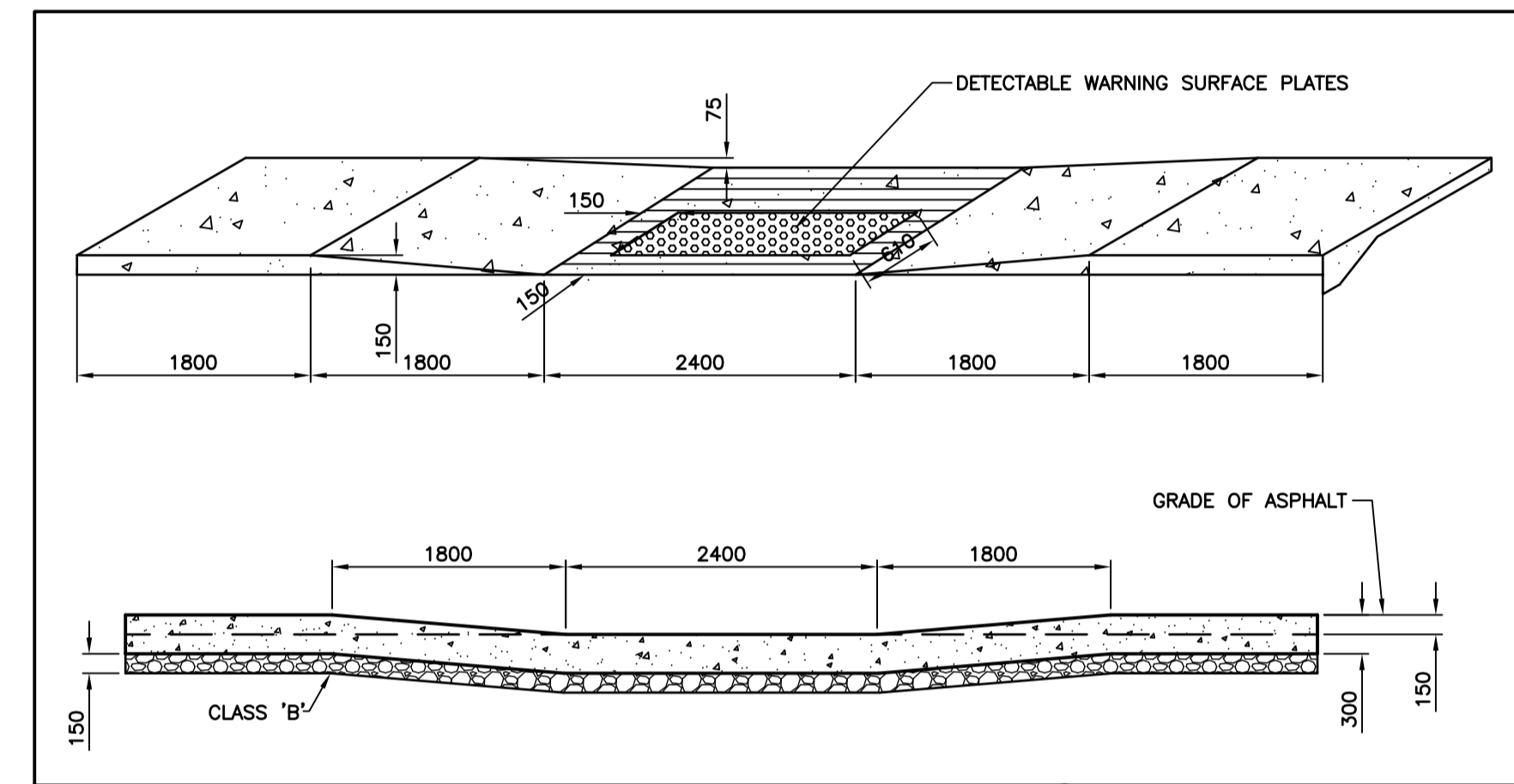
4
C-2.6



ASPHALT DETAIL

SCALE: 1:20

5
C-2.6



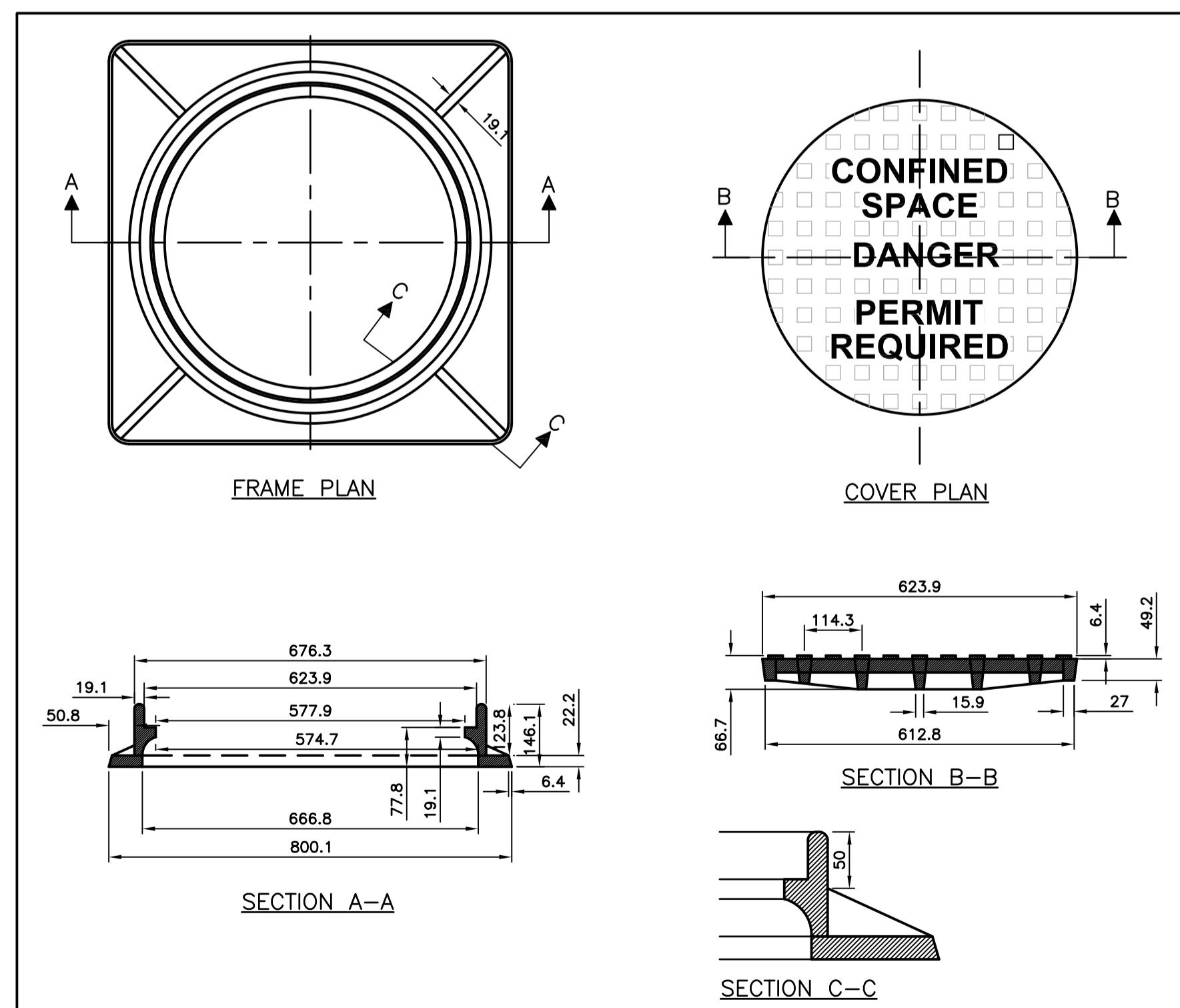
ACCESSIBILITY RAMP DETAIL

SCALE: 1:50

6
C-2.6

WARNING SURFACE PLATE NOTES:

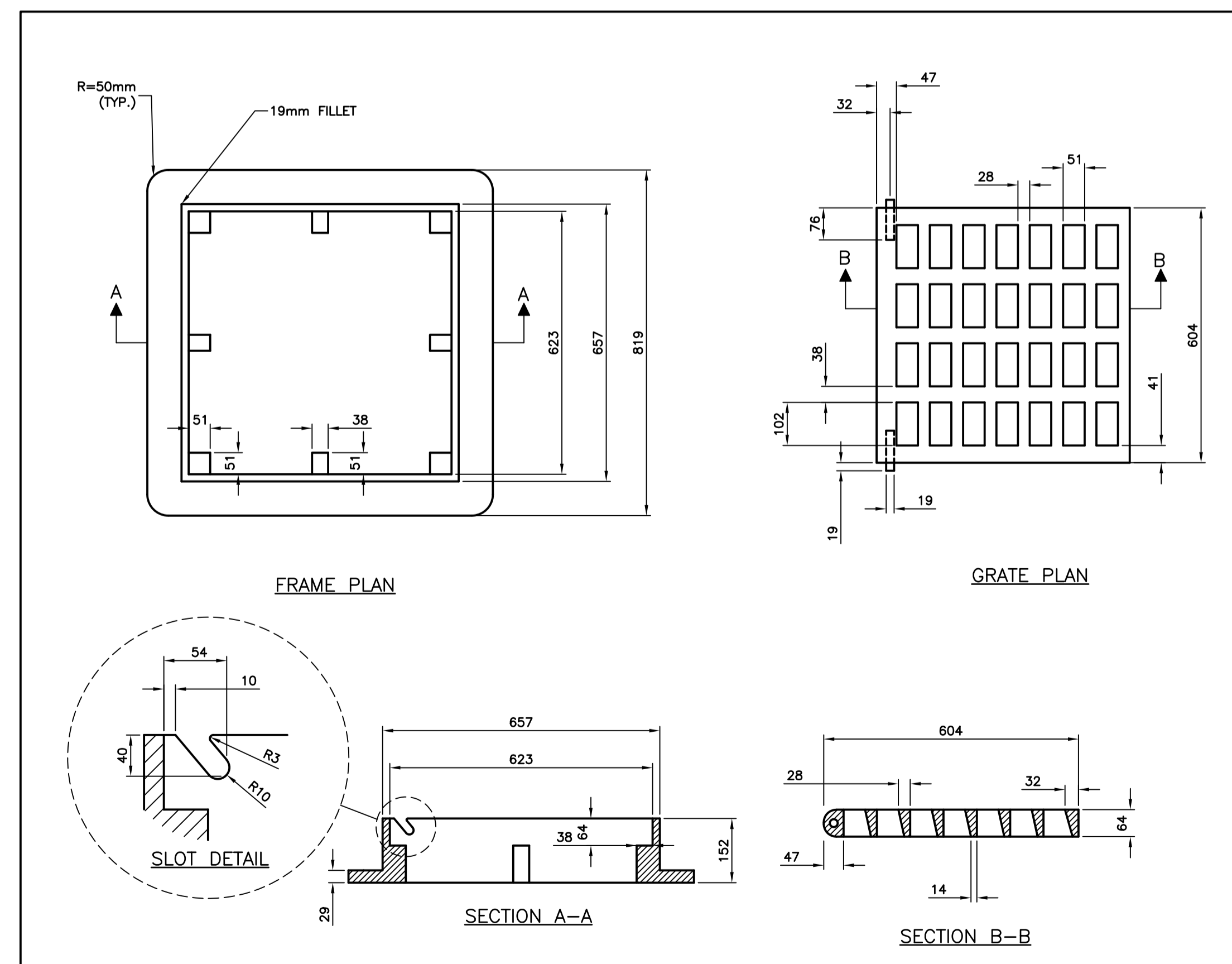
1. ALL TEXTURED SURFACES USED AS DETECTABLE WARNING SURFACES SHALL BE CLEARLY DETECTABLE BY WALKING UPON AS BEING DIFFERENT FROM THE SURROUNDING SURFACE.
2. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, BEING EITHER LIGHT ON DARK OR DARK ON LIGHT.
3. DETECTABLE WARNING SURFACES SHALL BE SLIP-RESISTANT.
4. DETECTABLE WARNING SURFACES AT CURB RAMPS AND DEPRESSED CURBS SHALL BE COMPOSED OF FLAT-TOPPED DOMES OR CONES THAT ARE 4-5 mm HIGH.
5. IF A WALKWAY CROSSES OR JOINS A VEHICULAR WAY AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS, THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING SURFACE, FLAT-TOPPED DOMES OR CONES WHICH IS MINIMUM 920mm WIDE.
6. ALL TRUNCATED DOME DETECTABLE WARNING PLATE DESIGNS ARE TO BE FINALIZED BY THE MANUFACTURE, "BIBBY-STÉ-CROIX" OR EQUIVALENT (610mmx610mm SQ.)
7. COLOR OF TRUNCATED DOME PLATES TO BE NATURAL PATINA.



MANHOLE FRAME AND COVER DETAIL

SCALE: 1:10

7
C-2.6



CATCH BASIN FRAME AND COVER DETAIL

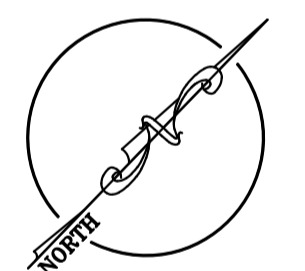
SCALE: 1:10

8
C-2.6

No.	REVISION	DATE
R3	ISSUED FOR ADDENDUM#2	APR, 2026
R2	ISSUED FOR ADDENDUM#1	APR, 2026
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Dedication plaque, Arts & Administration Building, St. John's Campus

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Project #: TA-511-25**

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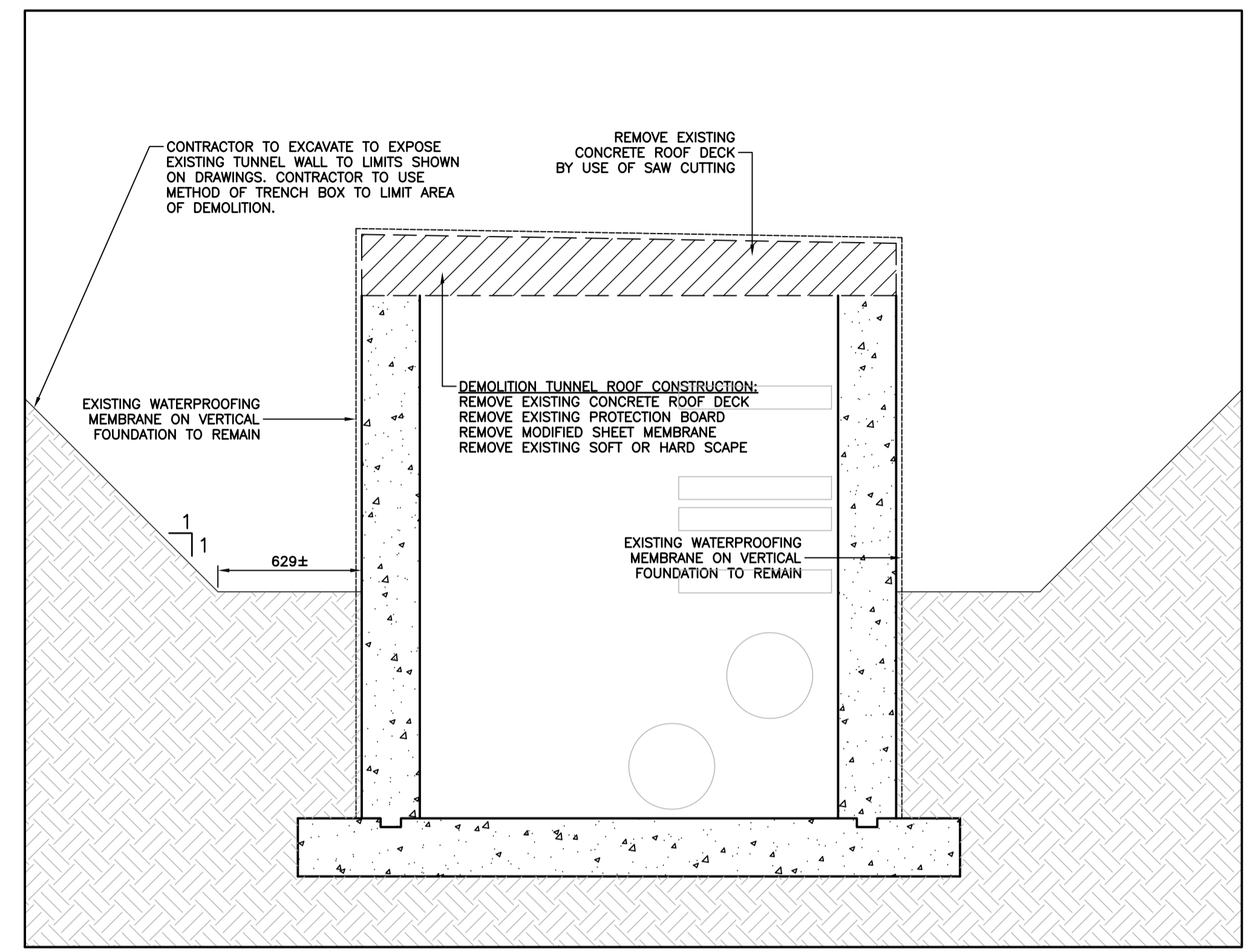
DESIGNED:	S.C	DRAWN:	S.C
REVIEWED:	E.H	APPROVED:	E.H
SCALE:	AS SHOWN	DATE:	APR, 2026
PROJECT No.	TA-511-25	DRAWING No.	C-2.6

A A - DETAIL
B B - LOCATION/DRAWING No.
C C - DRAWING No.

No.	REVISION	DATE
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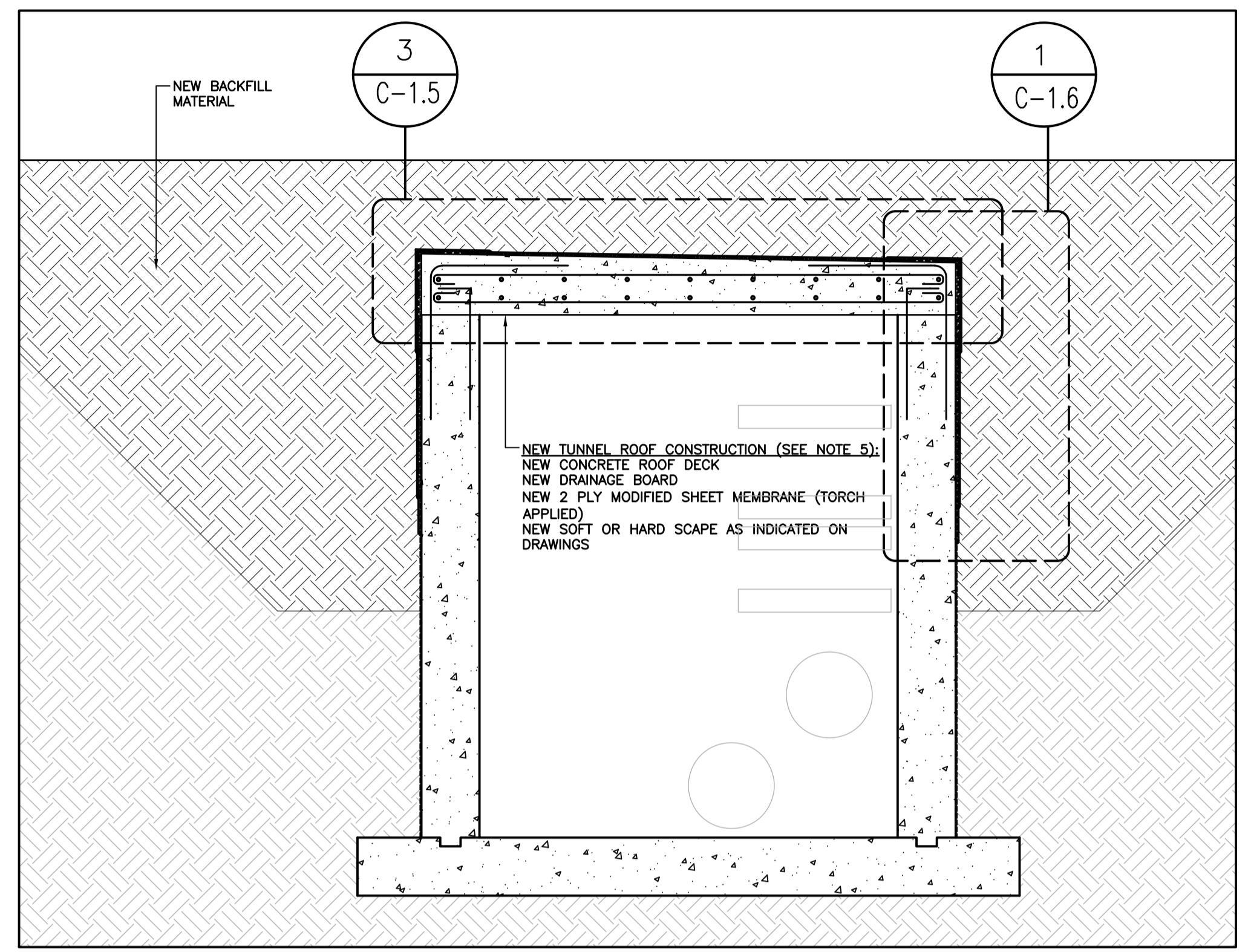
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5. DETAILED ENGINEERING PACKAGE WILL BE PROVIDED AT LATER DATE



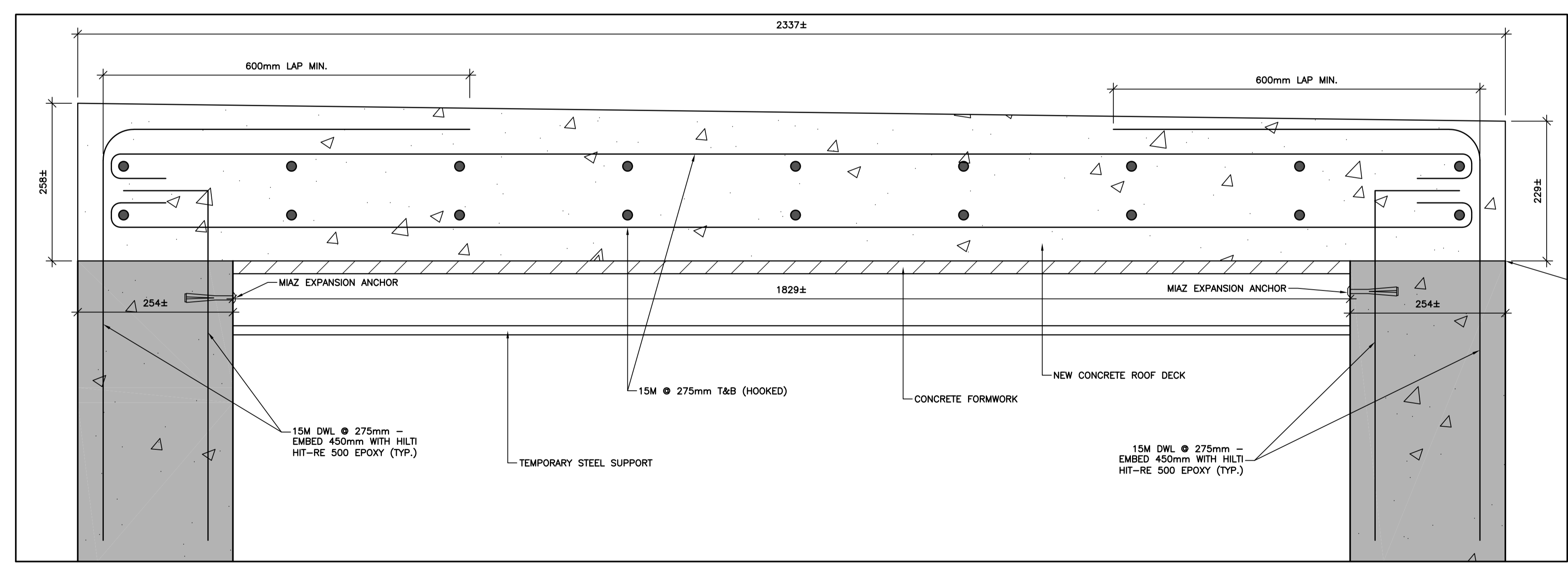
REMOVAL TUNNEL SECTION
SCALE: 1:20

1
C-2.7



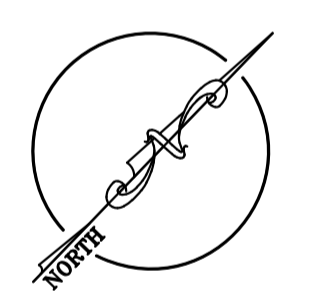
NEW TUNNEL SECTION
SCALE: 1:20

2
C-2.7



NEW TUNNEL ROOF DETAIL (CAST IN-SITU)
SCALE: 1:5

3
C-2.7



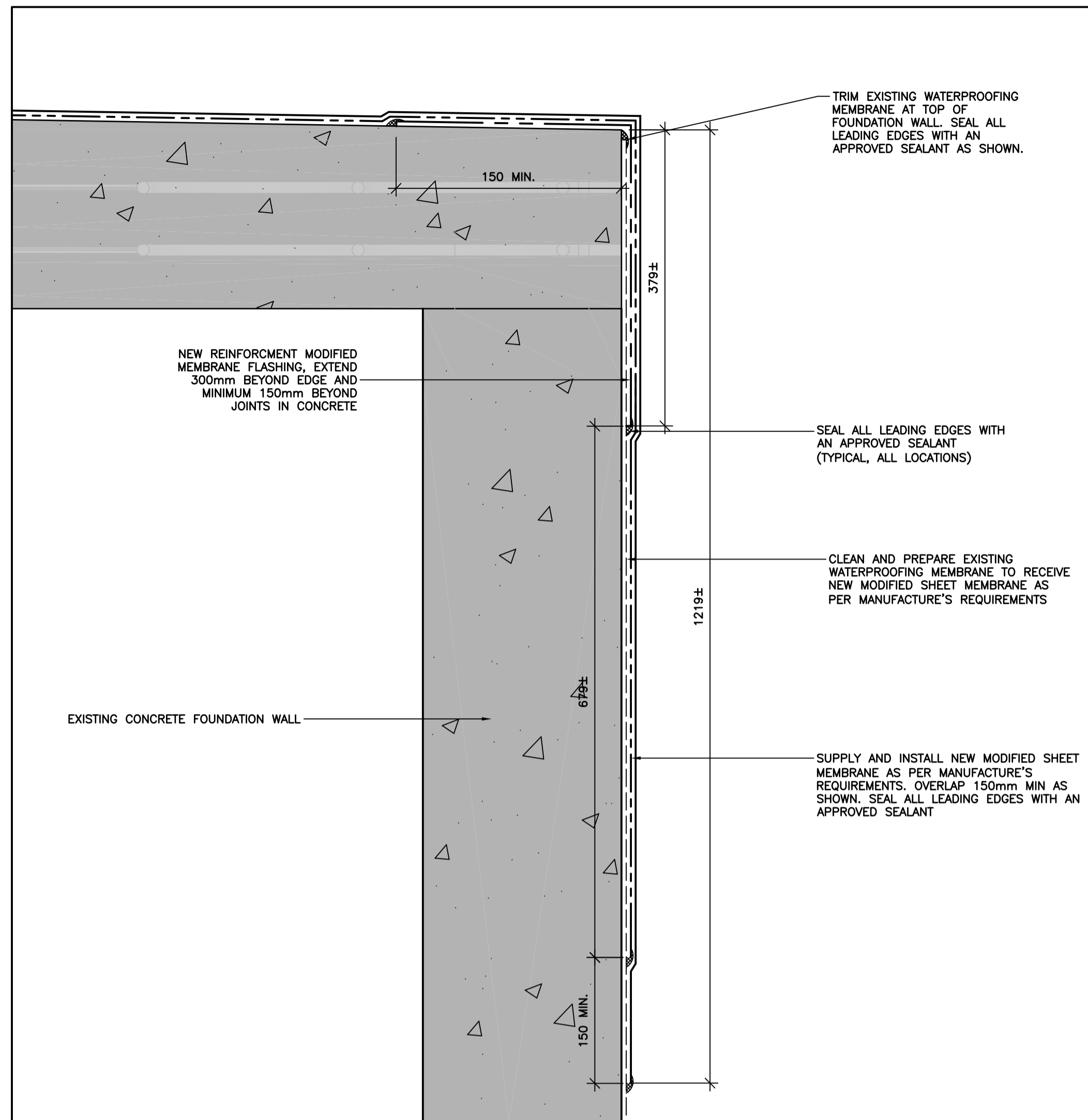
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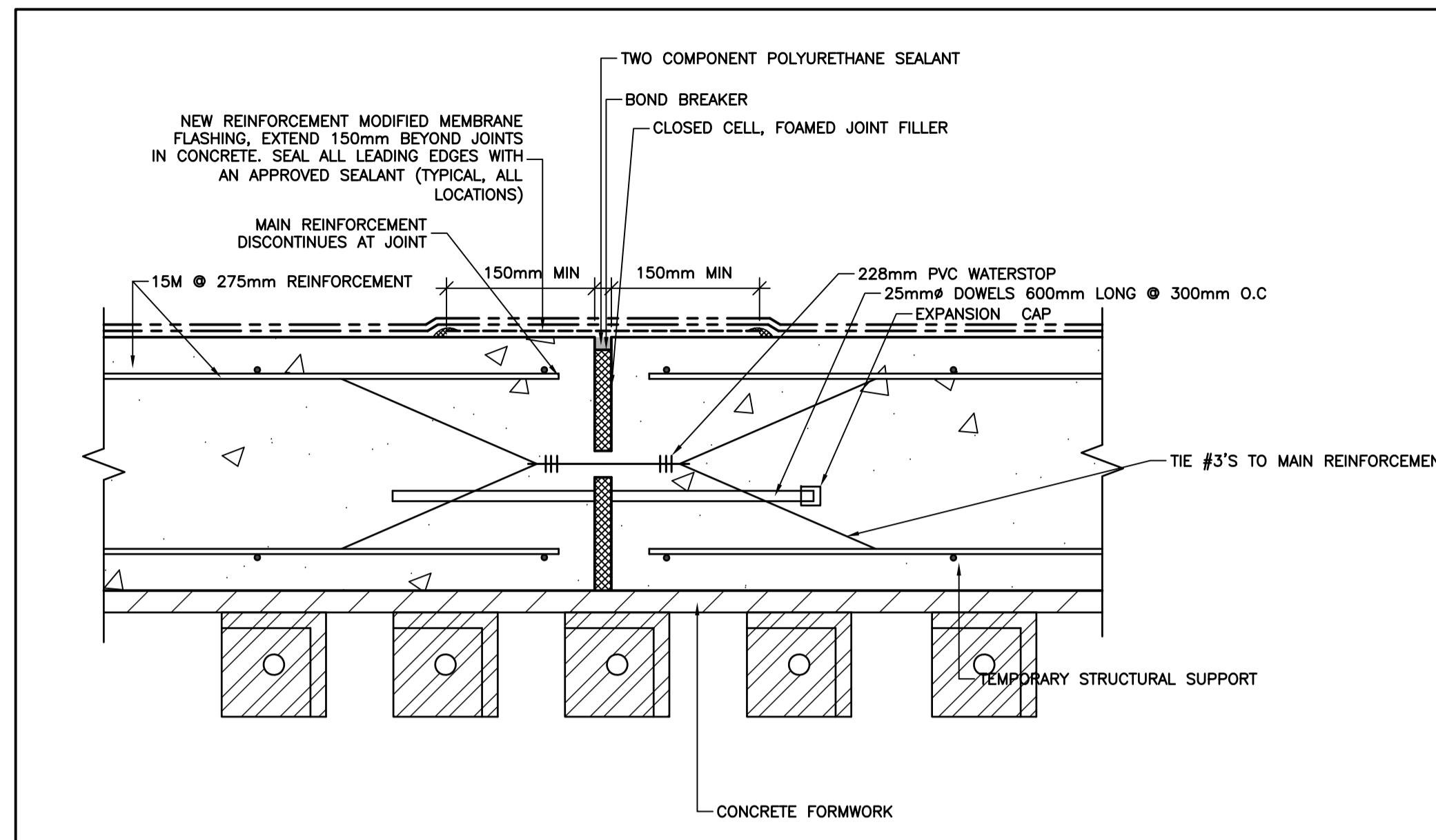
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REVIEWED:	APPROVED:
SCALE: AS SHOWN	DATE: APRIL, 2026
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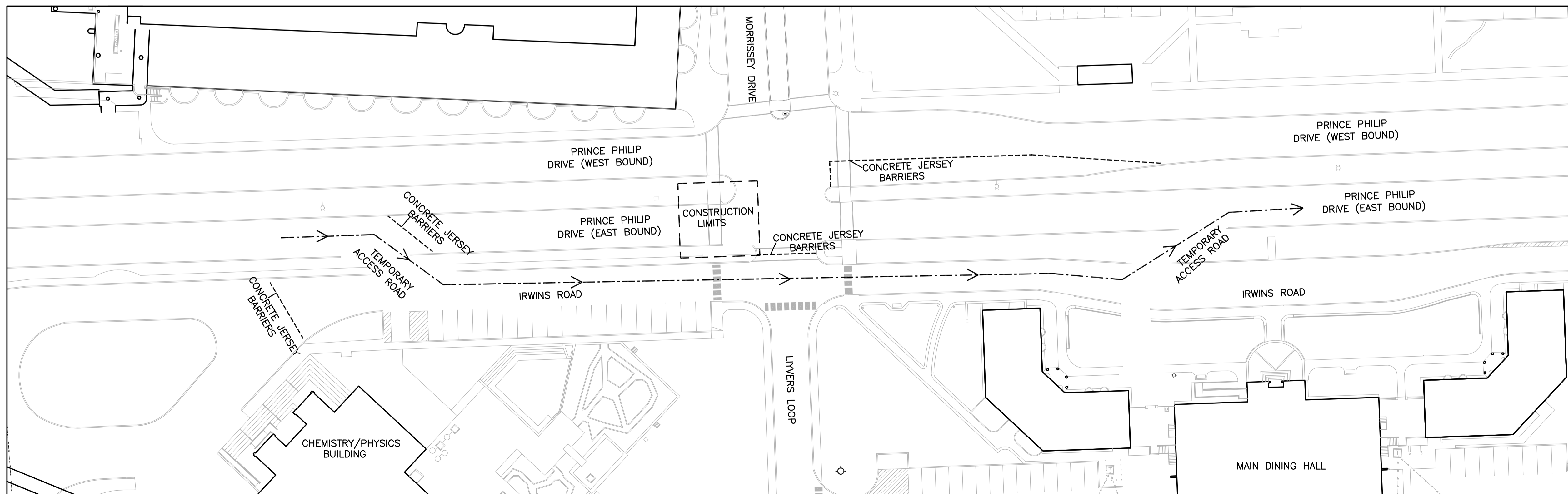
NEW WATERPROOF MEMBRANE: TYPICAL ROOF WALL INTERSECTION DETAIL
SCALE: 1:5

1
C-2.8



CONTROL/COLD JOINT DETAIL
SCALE: 1:5

2
C-2.8



PRINCE PHILIP DRIVE DETOUR PLAN
SCALE: N.T.S

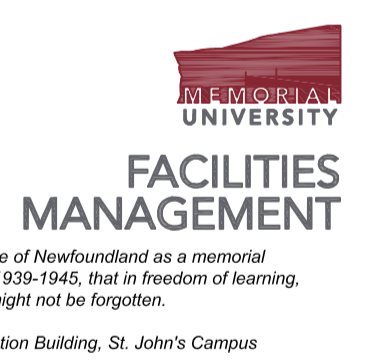
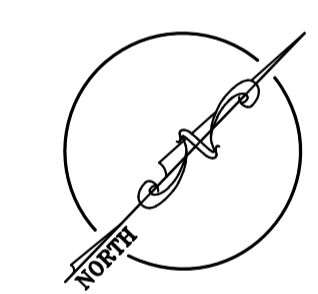
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C-2.8

A	A - DETAIL	A
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1. DRAWINGS TO BE READ AS A SET.
2. DO NOT SCALE FROM DRAWINGS.
3. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO SUBMISSION OF TENDERS.
4. ALL DEFICIENCIES FOUND IN THIS DRAWING IS TO BE BROUGHT TO THE ATTENTION OF THE FACILITIES ENGINEERING AND DEVELOPMENT OFFICE OF THE DEPARTMENT OF FACILITIES MANAGEMENT, MEMORIAL UNIVERSITY OF NEWFOUNDLAND, PRIOR TO THE SUBMISSION OF THE TENDERS.
5. DETAILED TRAFFIC CONTROL PLANS TO BE PROVIDED AND FULFILLED BY GENERAL CONTRACTOR



PROJECT NAME:
**ACADEMIC TUNNELS
RE-WATERPROOFING CP-1**
Project #: TA-511-25

DRAWING TITLE:
SECTIONS AND DETAILS

DESIGNED: S.C	DRAWN: S.C
REVIEWED:	APPROVED:
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.8

PART 1 - ADDENDUM

1.1 TITLE

- .1 This Addendum shall be known as:

Addendum 1
TFM-029-26 – TA-511-25 ACADEMIC TUNNELS RE-WATERPROOFING CP-1

- .2 The Date of the Addendum is Friday, April 17, 2026

1.2 PRECEDENCE

- .1 This amendment to the bid documents is effective immediately.
- .2 This Addendum shall form an integral part of the original bid documents and is to be read in conjunction therewith.
- .3 The Addendum shall take precedence over previously issued bid documents with which it may prove to be at variance.

1.3 GENERAL

- .1 The General Conditions shall govern all phases of the Work covered by this Addendum.
- .2 Acknowledge receipt of this addendum in the Tender and Acceptance form.

1.4 PURPOSE

- .1 The purpose of the Addendum is to inform bidders of the changes, deletions and additions to be added to the bid documents.

1.5 CHANGES TO DRAWINGS

- .1 Full Drawing Package Re-Issued
1. General Formatting to add clarity to plans and details.
 2. Detail 2/C-2.5 added to Drawing C-2.5

1.6 CHANGES TO SPECIFICATION

- .1 Addition of Section 07 52 00 Modified Bituminous Membrane Roofing
- .2 Update to Section 00 01 10 TOC Stipulated Price Contract to reflect the addition of a new Specification Section.
- .3 Addition of Section 07 13 52 2.5.1.1.1 (Insulation, Extruded Polystyrene Insulation (XPS))
Type of insulation to be Type 4. Basis of Design Sopra XPS 30.
Or approved alternates.

- 1.7 QUESTIONS AND RESPONSES
 - .1 N/A

END OF ADDENDUM

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- .1 Provide labour, materials, services and equipment necessary to complete the work of this section. Work includes, but is not limited to the following:
 - .1 The complete replacement of the existing roof system located on the Academic Tunnels in the area identified on the drawings.
 - .2 Remove and dispose of the existing roof system, metal flashings and all other related accessories to the limits shown on the drawings.
 - .3 Supply and install new 2 –ply modified bitumen roof membrane and flashings.
 - .4 Fabricate and install new metal flashing as indicated on the drawings and as defined in Section 07 62 00 – Sheet Metal Flashing and Trim.
 - .5 Perform all other work indicate on the drawings.
- .2 **Roofing Contractor must provide minimum of 3 references for previous projects of similar size and construction. References to be submitted with Tender and Acceptance form using the provided appendix.**
- .3 **Roofing membrane applicators must provide minimum 5 years proven experience. Proof of qualifications to be submitted and approved prior to commencing any site work as per Section 01 33 00, Submittal Procedures.**

1.2 RELATED DOCUMENTS

- .1 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.3 DEFINITIONS

- .1 Roofing Terminology: Refer to ASTM D 1079 and glossary of NRCA's *The NRCA Roofing and Waterproofing Manual* for definition of terms related to roofing work in this Section.
- .2 Design Uplift Pressure: The uplift pressure, calculated according to procedures in SPRI's *Wind Load Design Guide for Fully Adhered and Mechanically Fastened Roofing Systems*, before multiplication by a safety factor.
- .3 Factored Design Uplift Pressure: The uplift pressure, calculated according to procedures in SPRI's *Wind Load Design Guide for Fully Adhered and Mechanically Fastened Roofing Systems*, after multiplication by a safety factor.

1.4 PERFORMANCE REQUIREMENTS

- .1 General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.
- .2 Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.

- .3 FM Global Listing: Provide roofing membrane, base flashings, and component materials that comply with requirements in FMG 4450 and FMG 4470 as part of a roofing system and that are listed in FMG's Approval Guide for Class 1 or non-combustible construction, as applicable. Identify materials with FMG markings.
- .1 Fire/Windstorm Classification: Class 1A-105.

1.5 SUBMITTALS

- .1 Product data: for each type of product indicated. Submittal must indicate the products use, size, thickness, etc.
- .2 Indicate in shop drawings flashings, control joints, tapered insulation details, roof drains and all required roofing materials.
- .3 Provide layout for tapered insulation and crickets.
- .4 Provide fastening patterns and manufactures installation requirements (i.e. fastening patterns, adhesive application rates, etc.) to exceed the required wind uplift ratings. Submittal must clearly identify wind uplift rating for the roof system.
- .5 Compatibility between components of roofing system is essential. Upon completion of Work, provide written declaration to Owner's Representative stating that materials and components, as assembled in system, meet this requirement.
- .6 **Roofing Contractor must provide minimum of 3 references for previous projects of similar size and construction. References to be submitted with Tender and Acceptance form using the provided appendix.**
- .7 **Roofing membrane applicators must provide minimum 5 years proven experience. Proof of qualifications to be submitted and approved prior to commencing any site work as per Section 01 33 00, Submittal Procedures.**

1.6 DELIVERY, STORAGE, AND HANDLING

- .1 Refer to Section 01 60 00 - Product Requirements for storage and handling requirements.
- .2 Deliver roofing materials to Project site in original containers with seals unbroken and labelled with manufacturer's name, product brand name, and type, date of manufacture, and directions for storage.
- .3 Store materials off-ground in weatherproof storage.
- .4 Store materials in upright position. Store membrane rolls with selvage edge up, store as per manufacturer's requirements to meet warranty.
- .5 Remove only in quantities required for same day use.
- .6 Store adhesives and sealants as per manufacturer's recommendations.
- .7 Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
- .1 Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.

- .8 Protect roof materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with materials manufacturer's written instructions for handling, storing, and protecting during installation. Note: original packaging will not be permitted to be used as weather protection. Any material determined to be exposed to moisture will not be permitted to be installed as part of the roof system.
- 1.7 Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of roof deck.
- 1.8 ENVIRONMENTAL REQUIREMENTS
- .1 Do not install roofing when temperature remains below -18°C for torch application, or to manufacturers' recommendations for mop application.
- .2 Minimum temperature for solvent-based adhesive is -5°C .
- .3 Install roofing on dry deck, free of snow and ice, use only dry materials and apply only during weather that will not introduce moisture into roofing system.
- 1.9 PROTECTION
- .1 Fire Extinguishers: maintain one stored pressure rechargeable type with hose and shut-off nozzle, ULC labeled for A, B and C class protection. Size 9 kg on roof per torch applicator, within 10 m of torch applicator.
- .2 Contractor to provide safety person on site at all times during the roofing process and shall remain on site two (2) hours after work has ceased or after torching has stopped.
- .3 Remove only as much existing roofing as can be replaced by the end of each working day.
- 1.10 PROJECT CONDITIONS
- .1 Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.
- 1.11 WARRANTY
- .1 Provide a written guarantee signed and issued in the name of The Owner by the Roofing System Manufacturer stating that roofing system is free from manufacturing defects and that the system will stay in place and remain leak proof for a period of ten (10) years from date of Substantial Certificate of Completion, subject to the standard limitations and conditions of the manufacturer. Standard Warranty includes roofing membranes, membrane flashings, roofing membrane accessories, roof insulation, fasteners/adhesives, cover boards, substrate board, vapour retarder and other components of roofing system (including parapet wall & curb construction).
- .2 Provide a written guarantee, signed and issued in the name of the Owner by the Contractor, stating that the roofing application has been performed in compliance with the plans and specifications, and for two (2) years from the date of Substantial Certificate of Completion, the Contractor shall repair, at no expense to the Owner, any defects which result of a failure to comply with the plans and specifications.
- .3 Defective work shall include, but not limited to: leaking, wind uplift, delamination of roofing materials, reduction of thermal value due to moisture in insulation, crazing and ridging.
- .4 Warranty to be non-prorated.

1.12 COMPATIBILITY

- .1 Compatibility between components of roofing system is essential. Provide written declaration to Owner's Representative stating that materials and components, as assembled in system, meet this requirement.

1.13 QUALITY ASSURANCE

- .1 Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's warranty.
- .2 Manufacturer Qualifications: A qualified manufacturer that has FM Global approval for roofing system identical to that used for this Project.
- .3 Source Limitations: Obtain components for roofing system from or approved by roofing system manufacturer.
- .4 **Roofing Contractor must provide minimum of 3 references for previous projects of similar size and construction. References to be submitted with Tender and Acceptance form using the provided appendix.**
- .5 **Roofing membrane applicators must provide minimum 5 years proven experience. Proof of qualifications to be submitted and approved prior to commencing any site work as per Section 01 33 00, Submittal Procedures.**
- .6 Membrane: applied by applicator acceptable to Owner's Representative and approved by manufacturer for application of its products.
- .7 Refer to Section 01 33 00 – Submittal Procedures and Section 01 40 00 - Quality Requirements for submission procedures.
- .8 Submit laboratory test reports certifying compliance of bitumens and membranes with specification requirements.

1.14 MOCK-UP

- .1 Contractor to construct mock-ups in accordance with Section 01 40 00 - Quality Requirements.
- .2 **Mock-up to be 10 m² minimum size showing typical roof installation method and workmanship for the vapour barrier, insulation, cover board and base/cap sheet membrane. Mock-up to include installation of new curb construction, illustrating the fastening requirements of the wood curb, as well as the installation of the modified membrane flashings. Mock-up must permit the Owner's Representative to review the fastening patterns for each zone (perimeter, field and corner). Mock-up to include the installation of the base/cap membrane flashing and well as the installation of the metal flashing.**
- .3 Allow 48 hours for inspection of mock-up by Owner's Representative before proceeding with roofing work.
- .4 Accepted mock up may form part of completed work.
- .5 When accepted, mock-up will demonstrate minimum standard of quality required for this work.

PART 2 - PRODUCTS

2.1 THERMAL BARRIER / DECK COVER

- .1 Thermal Barrier: Pre-primed glass mat faced gypsum panel non-asphaltic, highly filled proprietary heat-cured coating on one side, to ASTM C1177, 12.7 mm thick.
 - .1 Acceptable product:
 - .1 Densdeck Roof Board, as manufactured by Georgia-Pacific.
 - .2 An approved alternate.

2.2 AIR-VAPOUR BARRIER

- .1 Air/Vapour Barrier: Self adhering peel and stick air/vapour barrier composed of Styrene-Butadiene-Styrene (SBS) modified bitumen reinforced with high density polyethylene film, anti slip surface, minimum thickness 0.8 mm.
 - .1 Acceptable product:
 - .1 Soprapap'R, as manufactured by Soprema.
 - .2 IKO MVP (Modified Vapour Protection), as manufactured by IKO.
 - .3 An approved alternate.

2.3 INSULATION

- .1 Provide custom designed tapered insulation with minimum slope of 1.0 mm in 100 mm (1%). Taper insulation to drain, minimum RSI value at drain to be 1.3. Contractor to provide minimum 2 layers of insulation with joints staggered. Base layer of insulation to be minimum 38mm (1-1/2"). Provide crickets where required to ensure positive drainage to roof drains.
- .2 Polyisocyanurate Insulation and Asphalt Recover Board:
 - .1 Polyisocyanurate Insulation:
 - .1 To CAN/ULC-S704, glass reinforced felt facers, square edged and containing no CFC.
 - .2 Insulation value thickness per cm based on values listed in the latest edition of NRC - Evaluation Listings.
 - .3 Provide two layers of insulation installed with staggered joints.
 - .4 Acceptable Products:
 - .1 Sopra-Iso insulation, as manufactured by Soprema.
 - .2 IkoTherm insulation, as manufactured by IKO.
 - .3 Approved alternate.
 - .2 Asphalt Cover Board: Semi-rigid asphalt roofing substrate composed of mineral core between glass fibre mats, 1200 x 1500mm sheets, minimum thickness 6.0 mm
 - .1 Acceptable product:
 - .1 Sopra-board, 6.4mm thickness, as manufactured by Soprema.
 - .2 Protecto-board 6mm, as manufactured by IKO.
 - .3 Approved alternate
- .3 Total assembly RSI value:
 - .1 Minimum average RSI value of assembly insulation components to be 4.0. Insulation assembly components to consist of insulation and cover board.

2.4 BASE SHEET MEMBRANE

- .1 Base Sheet: Base sheet: to CGSB-37.56-M, Styrene-Butadiene-Styrene (SBS) elastomeric polymer, prefabricated sheet, non woven, polyester reinforcement, weighing 180 g/m².
 - .1 Type 2, fully adhered
 - .2 Class P-plain surfaced
 - .3 Grade 2

- .4 Top and bottom surfaces:
 - .1 Polyethylene/polyethylene
- .5 Base sheet membrane properties:
 - .1 Strain energy (longitudinal/transversal): 9.0/7.0 kN/m
 - .2 Breaking strength (longitudinal/transversal): 17.0/12.5 N/5 cm
 - .3 Ultimate elongation (longitudinal/transversal): 60/65 %
 - .4 Tear resistance: 60 N
 - .5 Cold bending at -30 degrees C : no cracking
 - .6 Static puncture resistance: > 400
 - .7 Dimensional Stability: -0.3 / 0.3 %
- .6 Acceptable products:
 - .1 Sopralene Flam 180 as manufactured by Soprema.
 - .2 Torchflex TP-180-FF-Base, as manufactured by IKO.
 - .3 Approved alternate.

2.5 CAP SHEET MEMBRANE

- .1 Cap sheet: to CGSB-37.56-M, Styrene-Butadiene-Styrene (SBS) elastomeric polymer, prefabricated sheet, glass, polyester reinforcement, weighing 250 g/m²
 - .1 Type 2, fully adhered
 - .2 Class G-granule surfaced
 - .3 Grade 2
 - .4 Bottom surface polyethylene
 - .5 Colour to be selected by MUN project coordinator unless otherwise indicated
 - .6 Cap sheet membrane properties:
 - .1 Strain energy (longitudinal/transversal): 10.0/10.0 kN/m
 - .2 Breaking strength (longitudinal/transversal): 18.0/10.0 kN/m
 - .3 Ultimate elongation (longitudinal/transversal): 60/65 %
 - .4 Tear resistance: 75 N
 - .5 Cold bending at -30 degrees C: No cracking
 - .6 Static puncture resistance: > 420
 - .7 Dimensional Stability: -0.8 / -0.2 %
 - .7 Acceptable products:
 - .1 Sopralene Flam 250 GR, as manufactured by Soprema.
 - .2 Torchflex TP-250-Cap, as manufactured by IKO.
 - .3 Approved alternate.
- .2 Minimum total thickness if base sheet and cap sheet combined to be 5.8 mm. Cap sheet and base sheet to be of same manufacturer

2.6 BASE SHEET MEMBRANE FLASHING

- .1 To CGSB-37.56-M, Type 2, Class C, Grade 2, non-woven polyester reinforced 180g/m², self-adhesive membrane with polyethylene top face and release film under face.
 - .1 Approved product:
 - .1 Sopralene Flam Stick as manufactured by Soprema.
 - .2 Armourbond 180, as manufactured by IKO.
 - .3 Approved alternate.

2.7 SEALERS

- .1 Mastic made of synthetic rubbers, plasticized with bitumen and solvents with aluminum pigments to provide greater resistance to U.V.
 - .1 Acceptable products:
 - .1 Sopramastic as manufactured by Soprema.
 - .2 AquaBarrier Mastic, as manufactured by IKO.
 - .3 Approved alternate.
 - .2 Waterproofing system for horizontal and vertical penetrations:
 - .1 Precast blocks consisting of polyester resin, sized to suit application.
 - .1 Acceptable products:
 - .1 Sopramastic Blocks, as manufactured by Soprema.
 - .2 Approved alternate.
 - .2 Polyether based, single component, water reactive elastomeric sealing mastic:
 - .1 Horizontal and vertical surfaces:
 - .1 Acceptable products:
 - .1 Sopramastic SP2, as manufactured by Soprema
 - .2 Approved alternate.
 - .2 Horizontal surfaces only:
 - .1 Acceptable products:
 - .1 Sopramastic PF, as manufactured by Soprema
 - .2 Approved alternate.

2.8 PRIMERS

- .1 For self-adhesive membranes: as recommended by membrane manufacturer. A blend of elastomeric bitumen, volatile solvents and adhesive enhancing resins used to prime porous and non-porous substrates such as gypsum board, wood, concrete or metal to enhance the adhesion of self-adhesive membranes at temperatures above -10°C
- .2 For heat welded membranes: as recommended by membrane manufacturer. A blend of elastomeric bitumen, volatile solvents and adhesive enhancing additives used to prime concrete or metal substrates to enhance the adhesion of torch-applied membranes.

2.9 FASTENERS

- .1 Fasteners: minimum #14 mechanical fasteners made of case-hardened carbon steel with corrosion resistance coating, complying with FM standards. 75 mm diameter round or hexagon stress plates complying with CSA B35.3 and FM 4470 approval standards, diameter and lengths as required to suit total assembly thickness. Ensure fasteners have the following substrate penetration:
 - .1 For concrete/masonry: minimum 38 mm
 - .2 For metal decks: minimum 19 mm and maximum 25 mm longer than assembly being secured. Fasteners to engage metal deck top flange

2.10 ROOF DRAINS

- .1 As per section 22 42 01 – Plumbing Specialties and Accessories.

2.11 AUXILIARY ROOFING MEMBRANE MATERIALS

- .1 General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing membrane.

- .2 Metal Flashing Sheet: As per section 07 62 00 – Sheet Metal Flashing and Trim.
- .3 Roofing Granules: Ceramic-coated roofing granules, No. 11 screen size with 100 percent passing 2.36 mm sieve and 98 percent of mass retained on 0.425 mm sieve, colour to match roofing membrane.
- .4 Miscellaneous Accessories: Provide miscellaneous accessories recommended by roofing system manufacturer.

2.12 STACK FLASHINGS

- .1 Stack flashings shall be one piece spun aluminum flashings, with separate spun aluminum cap. Sizes as required to suit conditions.
 - .1 Metal flashing sleeve, with integral deck flange, uninsulated, and as follows:
 - .2 Metal: Aluminum sheet, 1.6 mm thick, mill finished.
 - .3 Height: 480 mm, unless otherwise noted.
 - .4 Diameter: as required
 - .5 Acceptable product:
 - .1 Removable Cap Stack Jack Flashings as manufactured by Thaler
 - .2 Approved alternate.

PART 3 - EXECUTION

3.1 WORKMANSHIP

- .1 Do roofing work in accordance with applicable standard in Canadian Roofing Contractors Association (CRCA) Roofing Specification Manual, except where specified otherwise.

3.2 PROTECTION

- .1 Cover walls and adjacent work where materials hoisted or used.
- .2 Use warning signs and barriers. Maintain in good order until completion of work.
- .3 Clean off drips and smears of bituminous material immediately.
- .4 Dispose of rain water off roof and away from face of building until roof drains or hoppers installed and connected. Refer to Section 01 10 00, section "Environmental Procedures" for site drainage requirements.
- .5 Protect roof from traffic and damage.
- .6 At end of each day's work or when stoppage occurs due to inclement weather, provide protection for completed work and store materials in weathertight enclosures.
- .7 Install insulation promptly to avoid possibility of condensation beneath vapour retarder.
- .8 Take necessary measures ensuring no penetration of the elements will occur to the building after commencement of work, including but not limited to water.
- .9 Only remove quantities of existing roofing material and install quantities of new roofing materials per day that can be covered with waterproofing membranes.

3.3 EXAMINATION

- .1 Examine substrates, areas, and conditions for compliance with the following requirements and other conditions affecting performance of roofing system:
 - .1 Verify that concrete/metal deck is firm, smooth, dry and free of moisture, snow, ice or frost, and swept clean of dust and debris.
 - .2 Ensure curbs have built and secured to the existing roof deck as per specifications. Coordinate height of roof curbs with Section 06 10 00 – Rough Carpentry and as indicated on the drawings.
 - .3 Ensure all existing plumbing fixtures have been modified to suit new roof elevations relative to finished roof surface.
 - .4 Proceed with installation only after unsatisfactory conditions have been corrected.
 - .5 Do not install roofing materials during precipitation (rain, drizzle, snowfall, etc.).
- 3.4 PREPARATION
 - .1 Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
 - .2 Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- 3.5 INSTALLATION, GENERAL
 - .1 Install roof system based on design wind uplift securement requirements for the building and site location (St. John's, NL), using FM approved roofing adhesive placed in accordance with manufacturer's recommendations.
 - .2 Roof system to meet FM Global wind uplift ratings: Fire/Windstorm Classification: Class 1A-105.
- 3.6 THERMAL BARRIER / DECK COVER
 - .1 Place thermal barrier with long axis of each sheet transverse to steel deck ribs, with end joints staggered and fully supported on ribs.
 - .2 Secure thermal barrier to metal deck using one (1) fastener per board, located at the centre of the board, fasteners to be FMRC approved. Note: Contractor to review underside of existing deck to ensure no damages occur during installation of fasteners.
 - .3 Fit butt edge joints in firm contact with one another.
- 3.7 AIR-VAPOUR BARRIER REPAIRS & GENERAL INSTALLATION
 - .1 Prime all surfaces to receive self-adhering air-vapour barrier membrane as per manufacturer's instructions.
- 3.8 Apply self-adhering modified bituminous sheet air/vapour barrier to thermal barrier in an overlapping shingle fashion. Stagger all vertical joints.
 - .1 Align modified bituminous sheet air/vapour barrier, remove protective film and press firmly into place. Ensure minimum 50 mm overlap at all ends and side laps. Roll membrane, including seams, with counter top roller to ensure full contact.
 - .2 Complete installation of self-adhered (SA) base sheet membrane flashing (air-vapour barrier location) prior to installing insulation:

- .1 Prime all surfaces to receive SA base sheet membrane flashing as per manufacturer's instructions. Install SA base sheet membrane flashing at all intersections such as parapet walls, curbs, vent stacks, etc. Contractor to ensure SA base sheet membrane is installed such that it extends minimum 100mm above height of insulation and as indicated on drawings. Lap sheets 75 mm minimum for side and 150 mm minimum for end laps.

.3 Seal all leading edges with and approved sealant.

.4 Do membrane application in accordance with manufacturer's recommendations.

3.9 INSULATION INSTALLATION

.1 Comply with roofing system manufacturer's written instructions for installing roof insulation.

.2 Install insulation in accordance with shop drawings.

.3 Secure insulation with fasteners using minimum one (1) fastener per board, and in accordance with manufacturer's written instructions.

.4 Place boards in parallel rows with ends staggered, and in firm contact with one another. Fill gaps exceeding 6 mm with insulation.

.5 Cut end boards to suit.

.6 Install tapered insulation following the above procedures and in accordance with shop drawings and as per manufacturer's written instructions. Stagger joints of previous layer a minimum of 150mm in each direction.

.7 Install insulation crickets to ensure positive drainage to roof drains, and as indicated on drawings. Fasten insulation crickets in accordance with manufacturer's written instructions.

3.10 ASPHALT COVER BOARD INSTALLATION

.1 Install asphalt cover board over insulation with long joints in continuous straight lines with end joints staggered between rows. Stagger joints from joints in insulation below a minimum of 150 mm in each direction. Loosely butt asphalt cover boards together and fasten to roof deck. Tape joints if required by roofing system manufacturer.

.2 Cut end boards to suit.

.3 Mechanically fasten according to requirements in FMG's *Approval Guide* for specified Windstorm Resistance Classification. Install fasteners based on design wind uplift securement requirements, for the building site location, for insulation and cover board, in accordance with manufacturer's recommendations. Note: Contractor to review underside of existing deck to ensure no damages occur during installation of fasteners.

.4 Fasten to resist uplift pressure at corners, perimeter, and field of roof.

3.11 BASE SHEET MEMBRANE INSTALLATION

.1 Starting at low point of roof, perpendicular to slope, unroll base sheet membrane, align and reroll from both ends.

.2 Unroll and torch base sheet membrane onto recover board taking care not to burn membrane or its reinforcement.

- .3 Lap sheets 75 mm minimum for side and 150 mm minimum for end laps. Stagger end laps a minimum of 300mm.
- .4 Install a reinforcement membrane diagonally (45°) around drains, vents, etc.. Provide minimum 150mm overlap onto roof membrane.
- .5 Complete installation of self-adhered (SA) base sheet membrane flashing prior to installing cap sheet membrane:
 - .1 Prime all surfaces to receive SA base sheet membrane flashing as per manufacturer's instructions. Install SA base sheet membrane flashing at all intersections such as parapet walls, curbs, vent stacks, etc. and as indicated on drawings. Lap sheets 75 mm minimum for side and 150 mm minimum for end laps. Mechanically fasten top of SA base sheet membrane flashing securely at terminations and perimeter of roofing and as indicated on drawings. Seal termination of SA base sheet membrane flashing.
- .6 Do membrane application in accordance with manufacturer's recommendations.

3.12 CAP SHEET MEMBRANE INSTALLATION

- .1 Starting at low point on roof, perpendicular to slope, unroll cap sheet, align and reroll from both ends.
- .2 Unroll and torch cap sheet onto base sheet taking care not to burn membrane or its reinforcement.
- .3 Lap sheets 75 mm minimum for side laps and 150 mm minimum for end laps. Stagger end laps a minimum of 300mm. Degranulate cap sheet membrane end to receive end laps and membrane flashing.
- .4 Application to be free of blisters, fishmouths and wrinkles
- .5 Do membrane application in accordance with manufacturer's recommendations

3.13 MEMBRANE FLASHING INSTALLATION, TYPICAL

- .1 Complete installation of flashing base sheet membrane flashing prior to installing membrane cap sheet.
- .2 Install base and cap sheet membrane flashings onto substrate in 1 metre wide strips. Provide 75 mm minimum side lap and seal.
- .3 Lap base sheet membrane flashing to base sheet membrane minimum 150 mm and seal by torch welding.
- .4 Degranulate cap sheet membrane to receive cap sheet membrane flashing. Lap cap sheet membrane flashing to cap sheet membrane minimum 300 mm and seal by torch welding.
- .5 Properly secure flashings to their support, without sags, blisters, fishmouths or wrinkles.

3.14 ROOF PENETRATIONS

- .1 Install vent stack flashings and other roof penetration flashings and seal to membrane in accordance with the manufacturer's recommendations and details.
- .2 Prime flange (top and bottom) with an approved primer prior to installation.
- .3 Heat base sheet until bitumen is fluid, embed flange in base sheet membrane.

- .4 Install a reinforcement membrane diagonally (45°) around drains, vents, etc.. Provide minimum 150mm overlap onto roof membrane.

3.15 ROOF DRAINS INSTALLATION

- .1 Supply and install roof drains as detailed on the drawings and in accordance with manufacturer's recommendations and details.
- .2 Installation of new drains is to include all required plumbing connections/modifications to existing plumbing.
- .3 All new roof drains to be installed by certified plumber. Coordinate installation of roof drains so that work can be inspected by Owner's Representative prior to commencement of remaining roof work.

3.16 FIELD QUALITY CONTROL

- .1 Repair or remove and replace components of membrane roofing system where inspections indicate that they do not comply with specified requirements.
- .2 Additional inspections, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements

3.17 PROTECTING AND CLEANING

- .1 Protect roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Owner's Representative and Owner.
- .2 Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- .3 Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.
- .4 Check drains to ensure cleanliness and proper function, and remove debris, equipment and excess material from site.
- .5 Contractor to have a separate pair of footwear onsite to use if entering the building is required. The university will not tolerate additional cleaning due to roofing tar being brought into the building.

END OF SECTION

PROCUREMENT AND CONTRACTING DOCUMENTS GROUP

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

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Memorial University of Newfoundland ACADEMIC TUNNELS RE-WATERPROOFING

CP-1

TA-511-25

ST. JOHN'S CAMPUS

APRIL 9, 2026

ISSUED FOR TENDER

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- C-2.5 - SECTIONS AND DETAILS
- C-2.6 - SECTIONS AND DETAILS

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- Dedication plaque, Arts & Administration Building, St. John's Campus



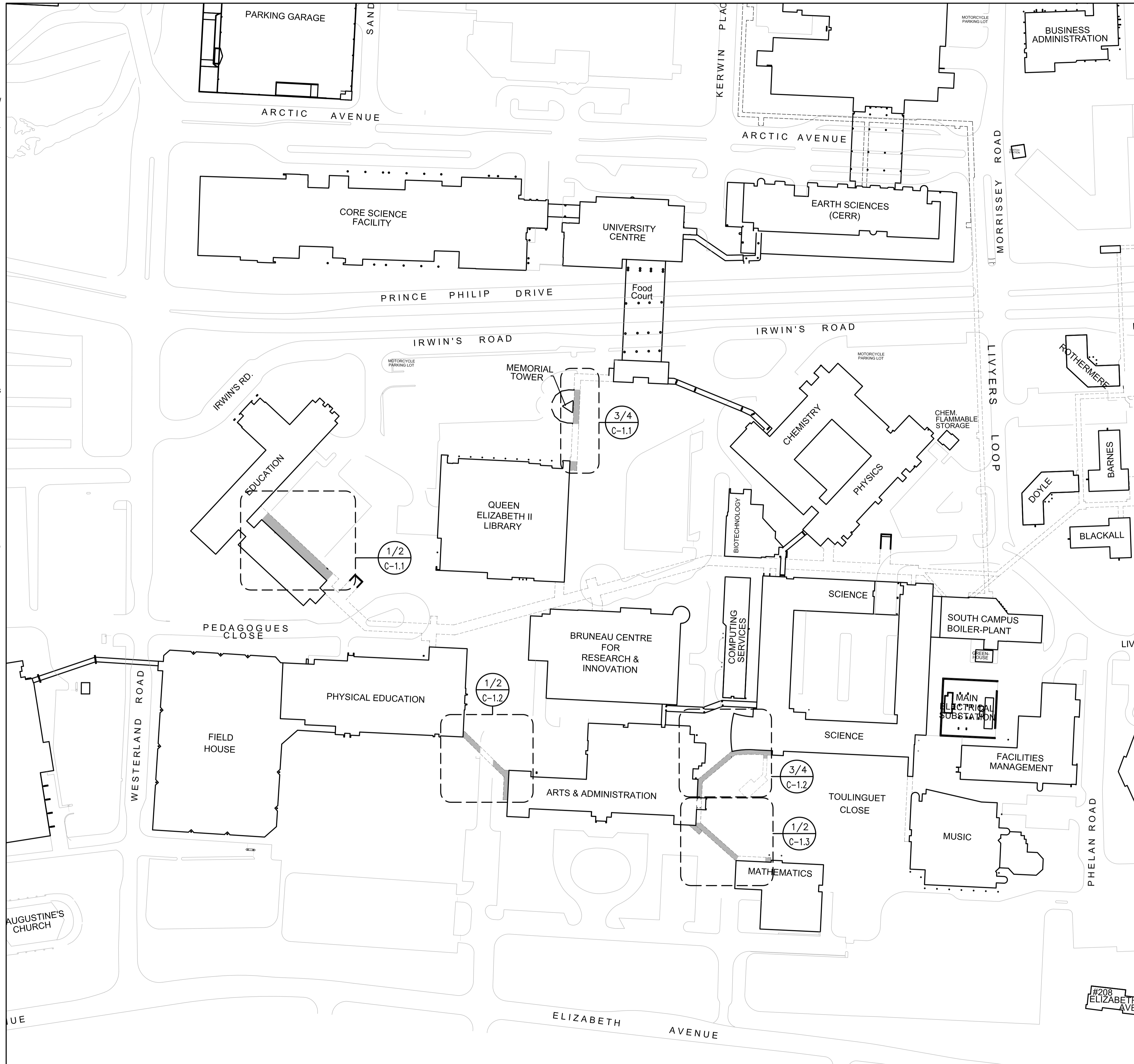
**FACILITIES
MANAGEMENT**

CONSTRUCTION NOTES (APPLIES TO ALL DRAWINGS)

1. ALL WORK TO BE PERFORMED TO IN ACCORDANCE WITH MEMORIAL UNIVERSITY OF NEWFOUNDLAND SPECIFICATIONS, AND CITY OF ST. JOHN'S CONSTRUCTION SPECIFICATIONS.
2. COORDINATE ALL DEMOLITION WITH OWNER'S REPRESENTATIVE PRIOR TO START OF CONSTRUCTION.
3. ALL EXISTING CONCRETE AND ASPHALT TO BE SAW CUT AT LIMITS OF CONSTRUCTION PRIOR TO DEMOLITION AND REINSTATEMENT.
4. EXCAVATE AS REQUIRED TO ACCOMMODATE CONSTRUCTION OF NEW CURB, GUTTER, SIDEWALK, ROADWAY, ETC. AS PER DETAILS.
5. ALL CONCRETE CURB, GUTTER, AND SIDEWALK TO BE CLASS C-2 EXPOSURE WITH MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 32 MPa.
6. ALL CONCRETE WALKWAYS TO BE A 150 mm IN THICKNESS.
7. INSTALL EXPANSION JOINTS ALONG LENGTH ADJACENT TO CONCRETE CURBS AND ADJACENT TO EXISTING CONCRETE WALKWAYS.
8. ALL MANHOLES TO BE SET 5 mm BELOW CONCRETE OR FINISHED ASPHALT GRADES.
9. ALL CATCH BASINS TO BE SET 30 mm BELOW FINISHED ASPHALT GRADES.
10. NEW LINE PAINTING TO BE COMPLETED AS SHOWN. REINSTATE ALL EXISTING LINE PAINTING AFFECTED BY CONSTRUCTION.
11. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES AT NO COST TO OWNER.
12. INSTALL EXPANSION JOINT AT INTERVALS OF 6 METERS IN NEW CONCRETE SIDEWALKS/WALKWAYS.
13. INSTALL CONCRETE SAW CUTS AT 2.1m MAX OR AS SHOWN ON DRAWINGS IN NEW CONCRETE SIDEWALKS/WALKWAYS.
14. REINSTATE LANDSCAPING ALONG EDGE OF NEW CONCRETE SIDEWALKS AND CURB. MIN 0.5m WIDTH.
15. ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR. WORK SITE TO BE LEFT IN SAFE CONDITION AT THE END OF EACH WORK DAY.
16. CONTRACTORS SHALL AWAIT WRITTEN APPROVAL FOR ANY CHANGE ORDERS BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING ANY WORK OR ORDER OF ANY MATERIALS RELATING TO A CHANGE.
17. PROVIDE CERTIFICATE OF GUARANTEE OF WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER.
18. HATCHED AREAS INDICATE APPROXIMATE AREA FOR EXCAVATION. THE CONTRACTOR IS REQUIRED TO ENSURE THAT ADEQUATE MATERIAL IS EXCAVATED TO ACHIEVE A MAX OF 1:1 SLOPING TO THE REQUIRED DEPTHS.
19. ALL CATCH BASINS, MANHOLES AND GRADE ADJUSTMENT STRUCTURES IN EXTENTS OF EXCAVATION TO BE REPLACED. (SEE DETAILS 7/C-2.6 AND 8/C-2.6)
20. CONTRACTOR IS TO HOARD WORK AS NECESSARY AND PROTECT REMAINING PREMISES IN THE WORK AREA AND ADJACENT AREAS FROM DAMAGE AND MAKE GOOD ANY DAMAGES THAT MAY OCCUR DURING THE WORK.
21. ALL DISTURBED AREAS BEYOND LIMITS OF WORK TO BE RESTORED TO ORIGINAL CONDITIONS OR BETTER.
22. ALL EXISTING TREES LOCATED IN THE AREAS OF REMOVAL ARE TO BE REMOVED (TYPICAL)

LEGEND

- REMOVAL
- NEW LANDSCAPING
- NEW ASPHALT
- NEW CONCRETE
- NEW TOPSOIL
- FENCE LINE
- WATER MAIN LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND HIGH VOLTAGE DUCT BANK
- GRADE DIRECTION
- LIGHT STANDARD
- MANHOLE
- VALVE
- CATCH BASIN
- FIRE HYDRANT
- TRANSFORMER



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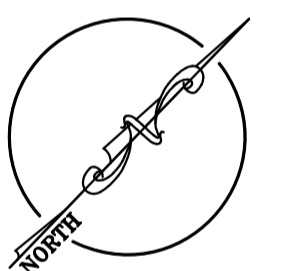
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C-1.0

A	A - DETAIL	A
B	B - LOCATION/DRAWING No.	B
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No.	REVISION	DATE
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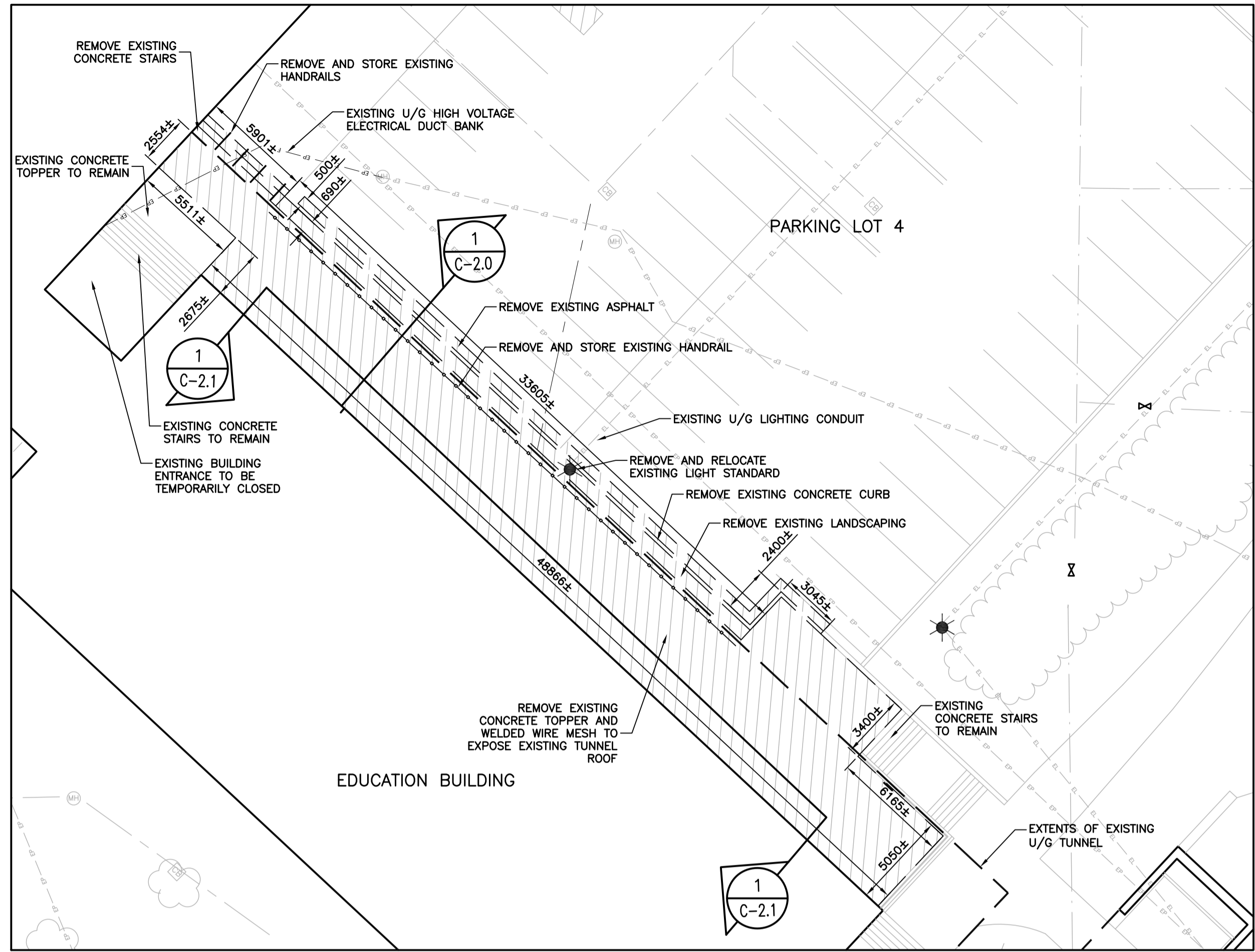
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Project #: TA-511-25

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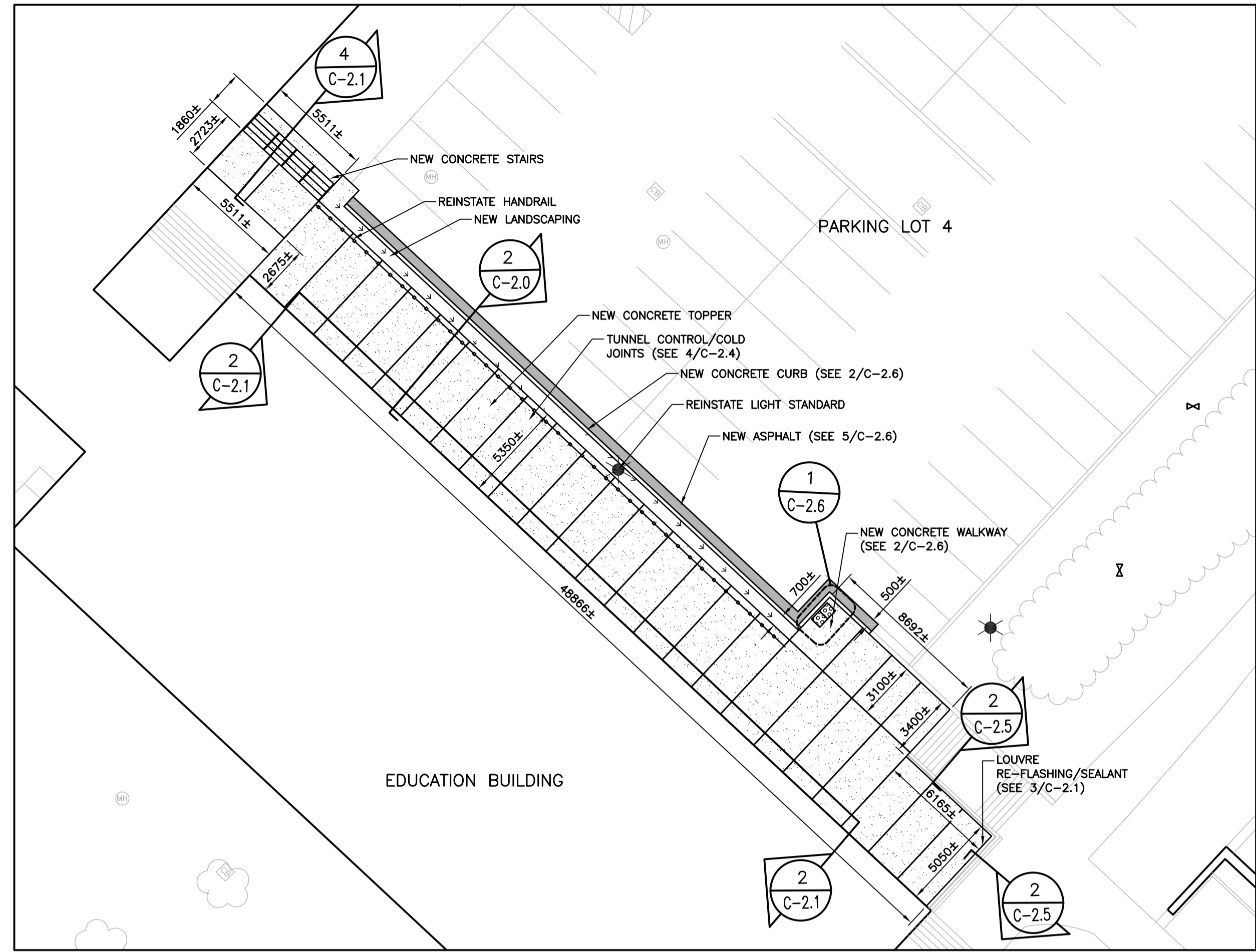
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EDUCATION DEMOLITION SITE PLAN

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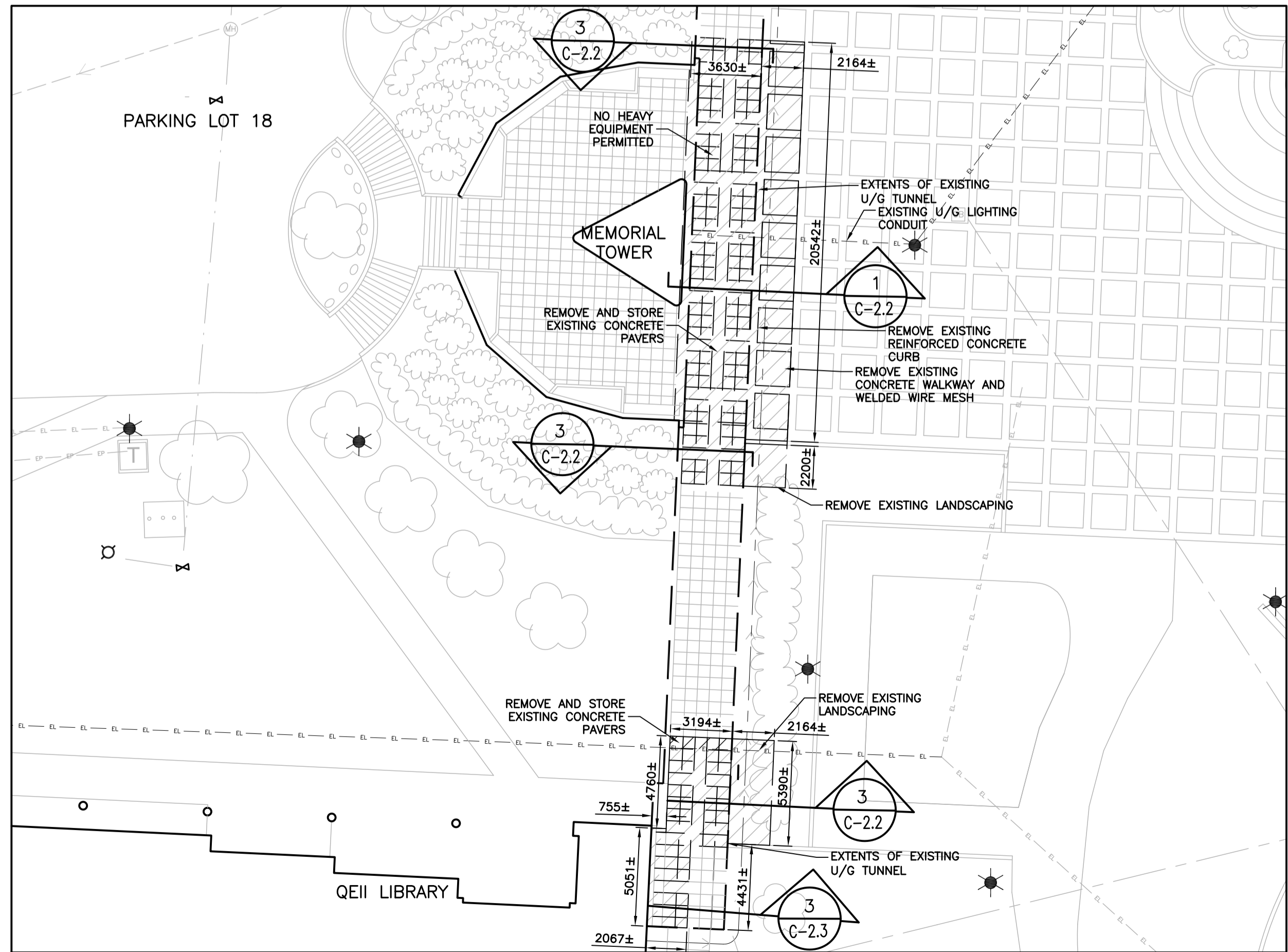
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C-1.1



EDUCATION NEW SITE PLAN

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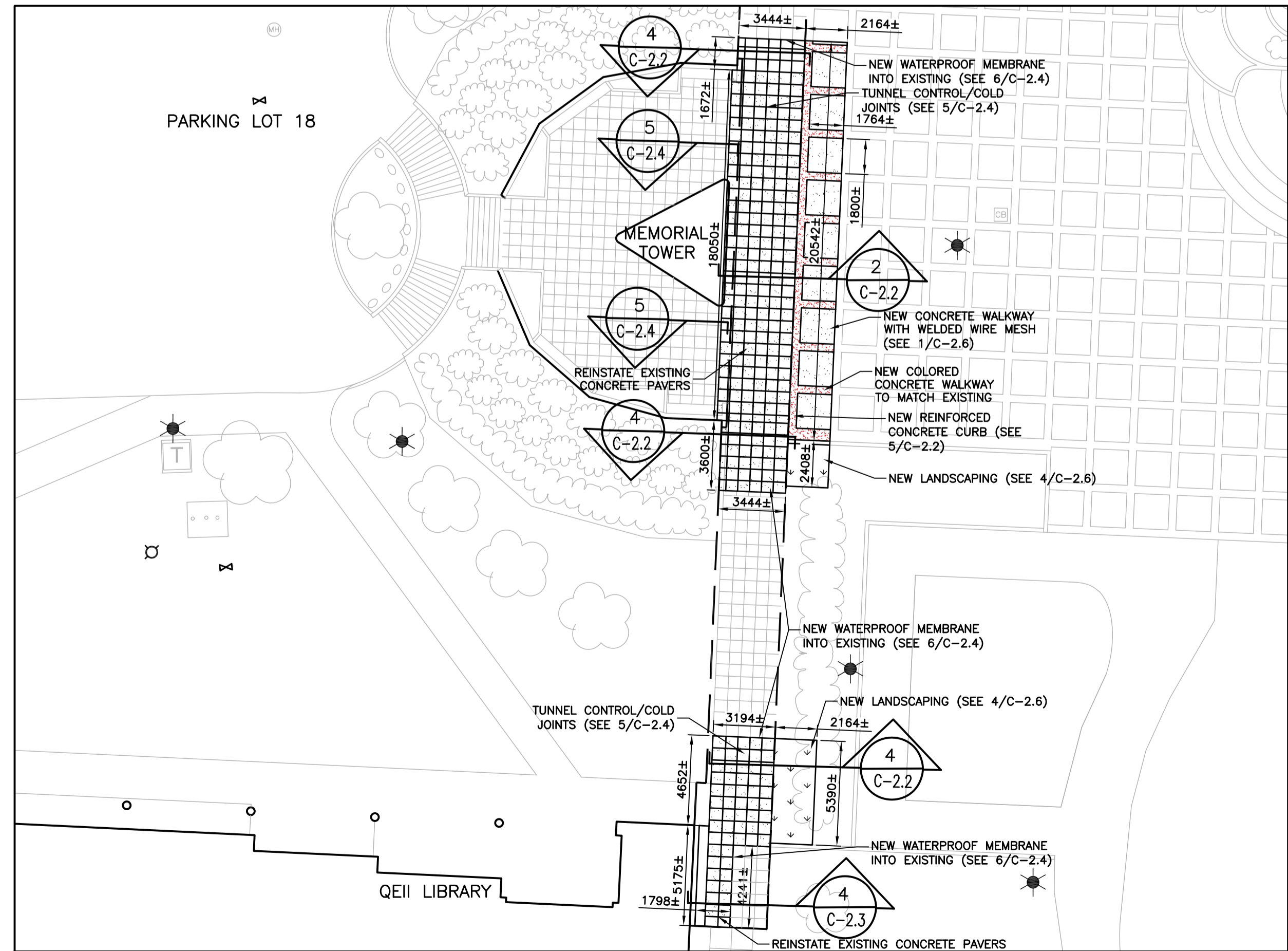
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C-1.1



LIBRARY TO UNIVERSITY CENTER DEMOLITION SITE PLAN

SCALE: 1:200

3
C-1.1



LIBRARY TO UNIVERSITY CENTER NEW SITE PLAN

SCALE: 1:200

4
C-1.1

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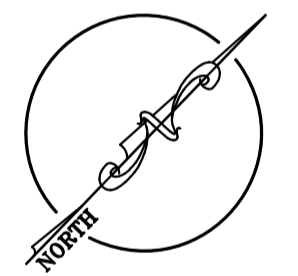
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LEGEND

- REMOVAL
- NEW LANDSCAPING
- NEW ASPHALT
- NEW CONCRETE
- NEW TOPSOIL
- WATER MAIN LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND HIGH VOLTAGE DUCT BANK
- GRADE DIRECTION
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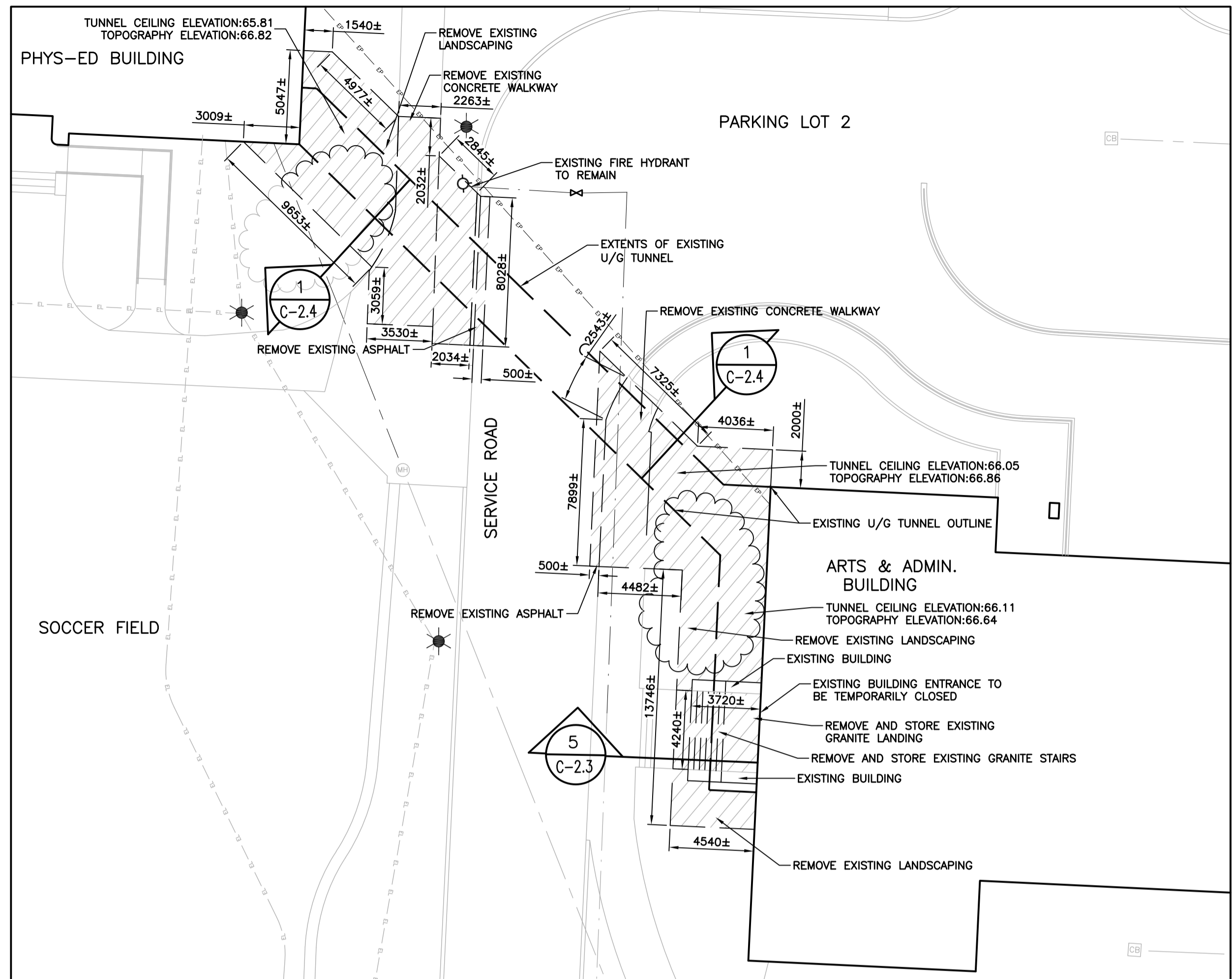
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Project #: TA-511-25

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EDUCATION AND LIBRARY
TO UNIVERSITY CENTER
DEMOLITION AND NEW
SITE PLANS

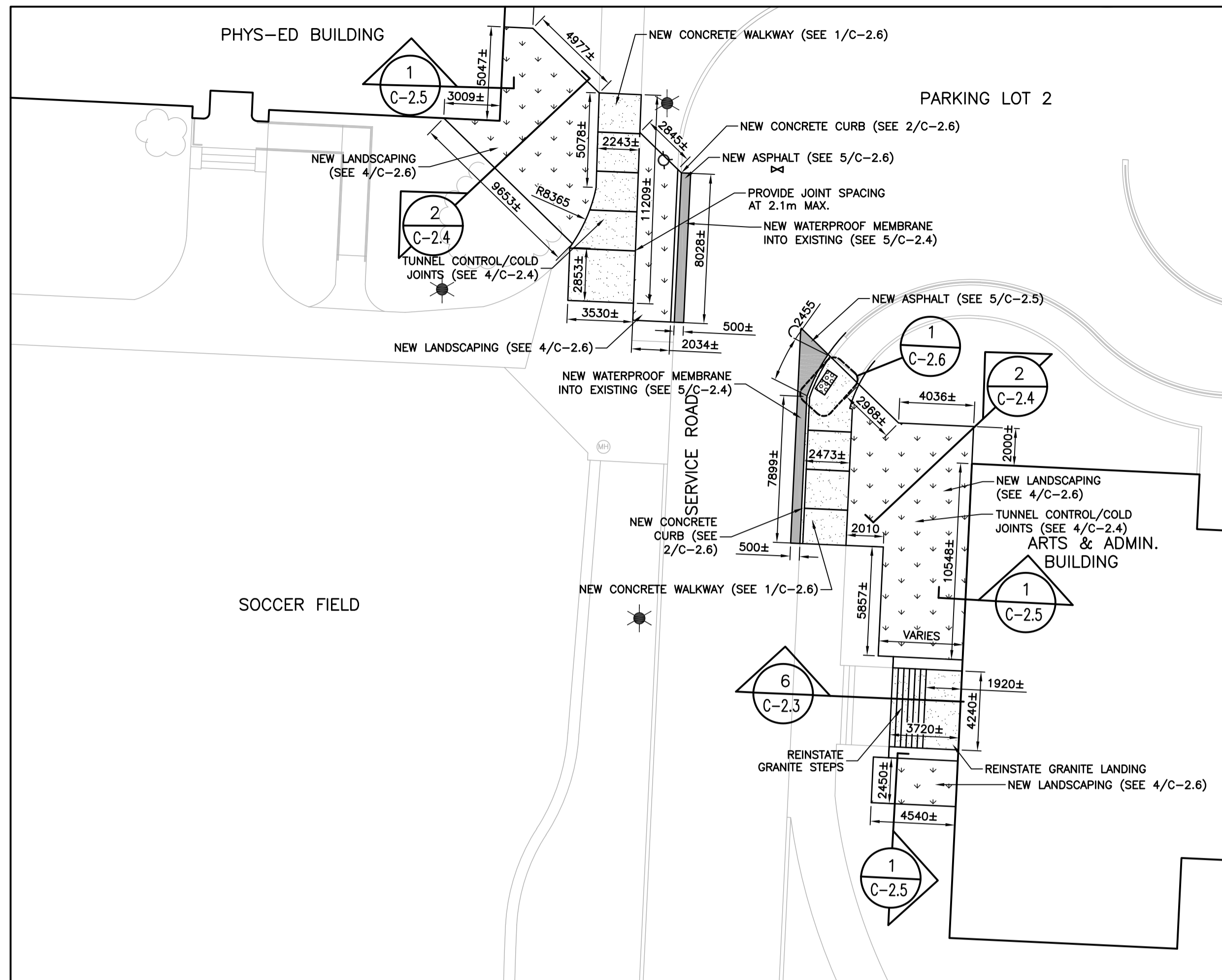
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PHYSICAL EDUCATION TO ARTS AND ADMIN. DEMOLITION PLAN

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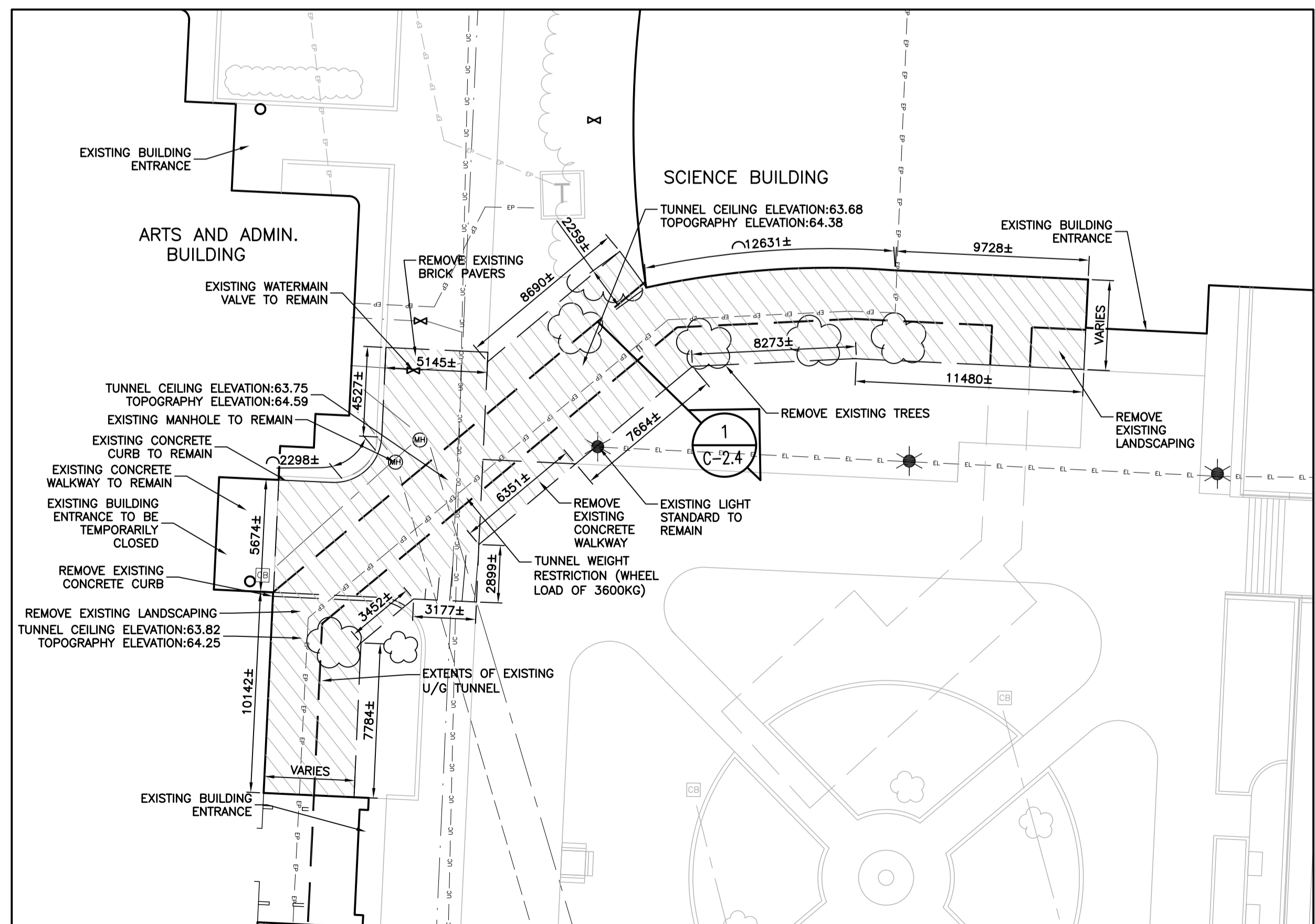
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PHYSICAL EDUCATION TO ARTS AND ADMIN. NEW SITE PLAN

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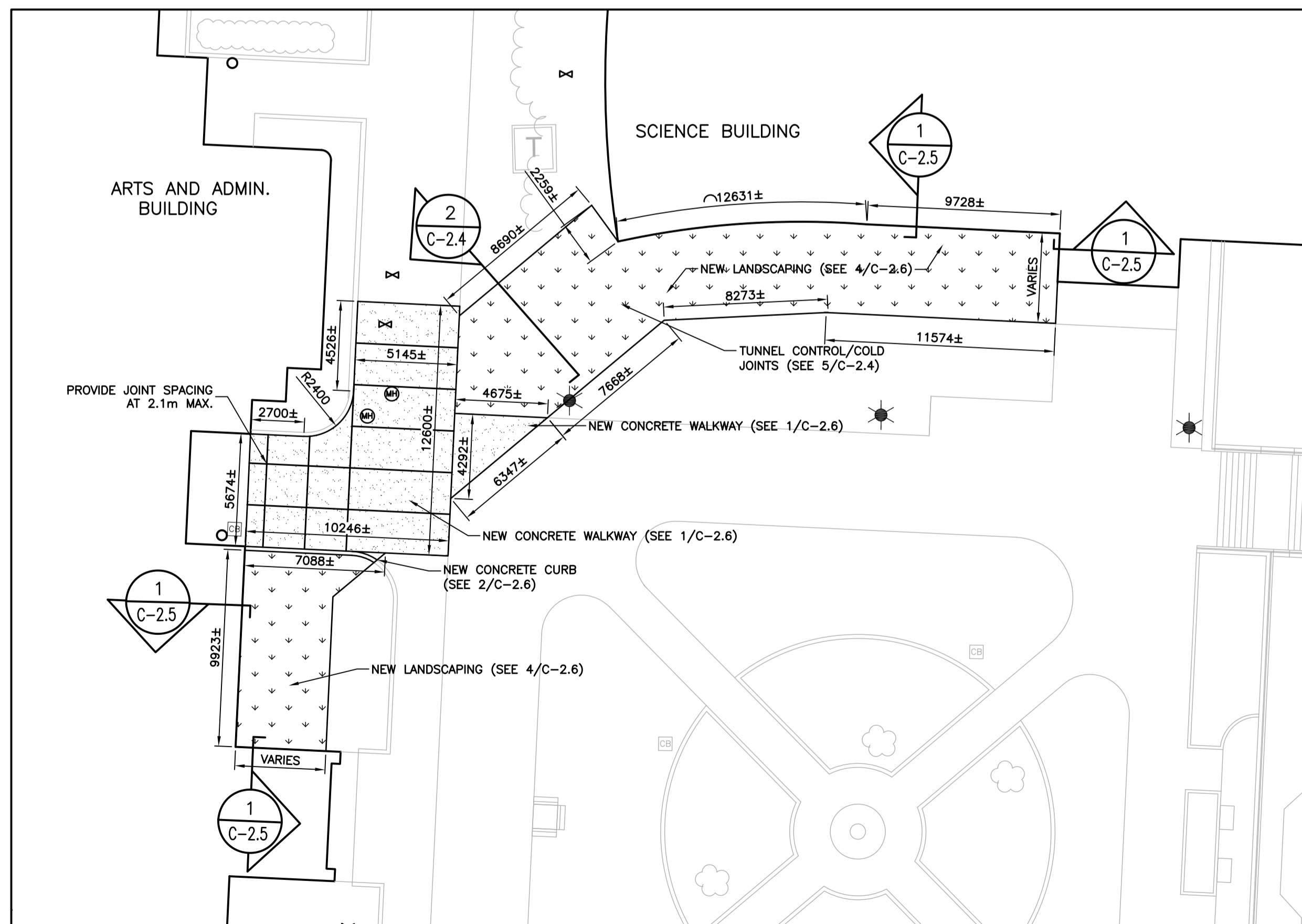
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PEDAGOGUES CLOSE DEMOLITION SITE PLAN

SCALE: 1:200

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C-1.2



PEDAGOGUES CLOSE NEW SITE PLAN

SCALE: 1:200

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C-1.2

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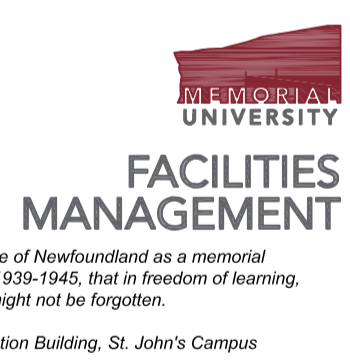
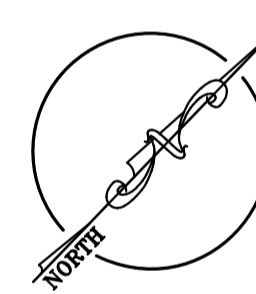
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LEGEND

- REMOVAL
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- NEW ASPHALT
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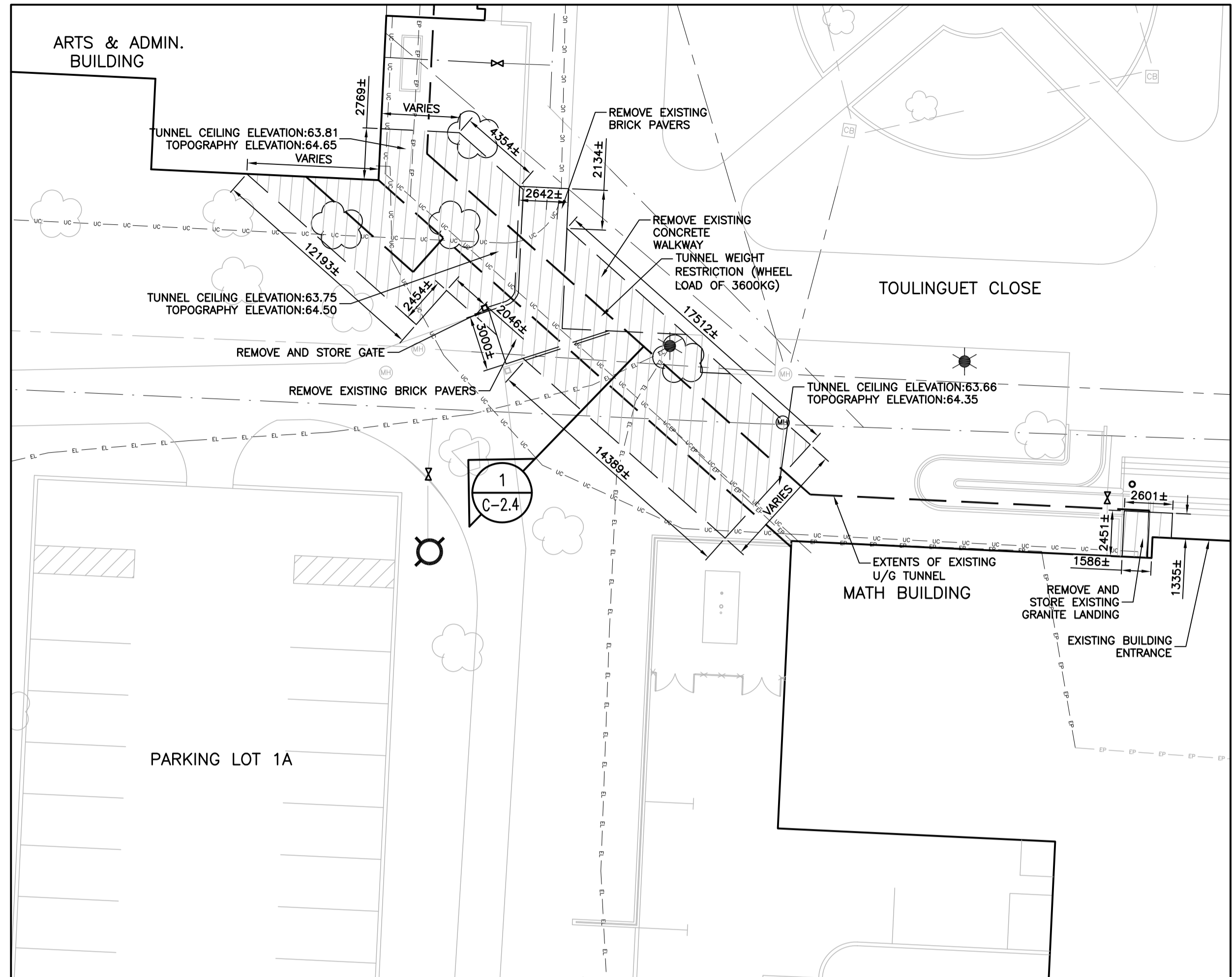
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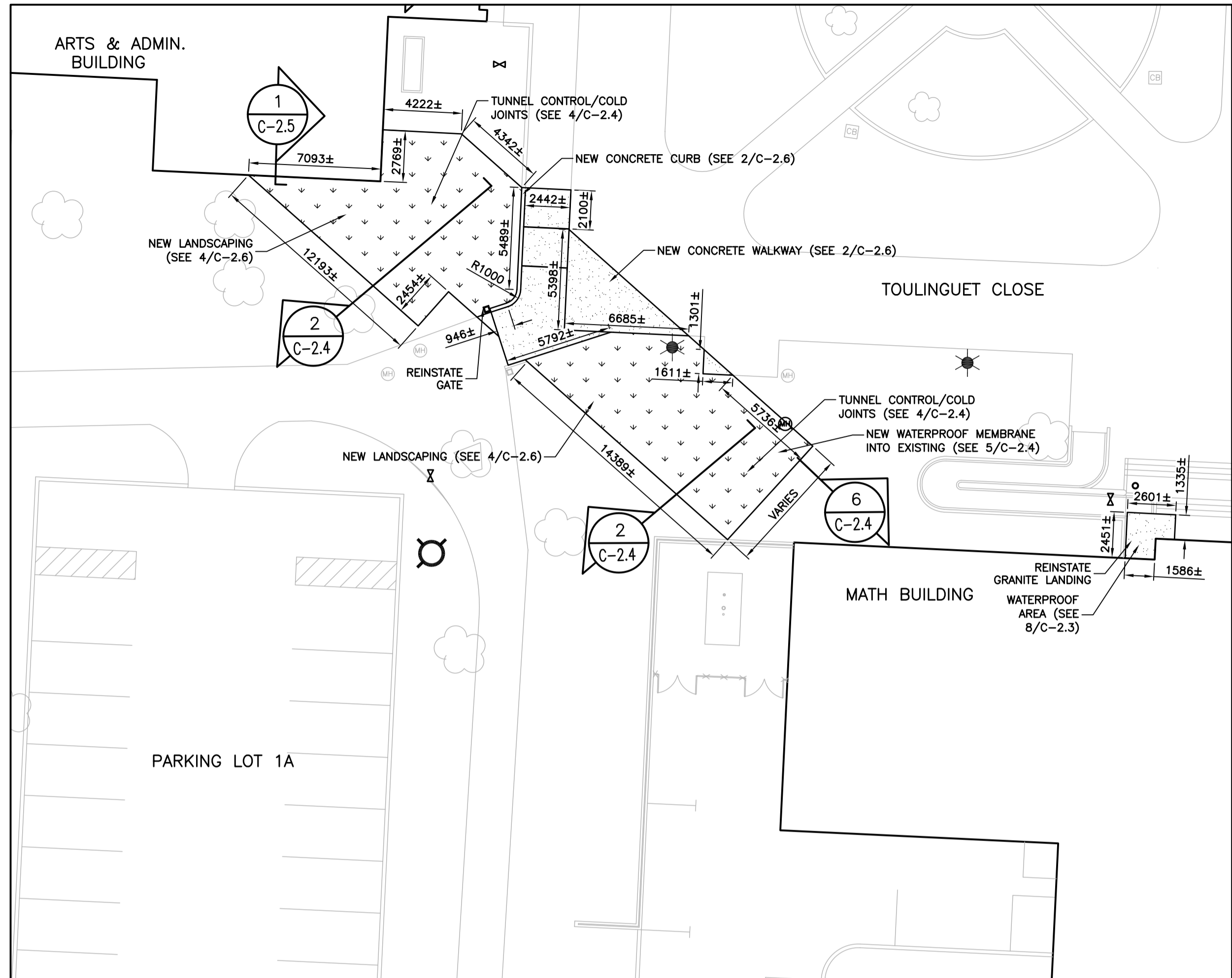
PHYSICAL EDUCATION TO ARTS
AND ADMIN. AND SCIENCE TO
ARTS AND ADMIN. DEMOLITION
AND NEW SITE PLANS

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ARTS AND ADMIN. TO MATH DEMOLITION PLAN
SCALE: 1:200

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C-1.3



ARTS AND ADMIN TO MATH NEW SITE PLAN
SCALE: 1:200

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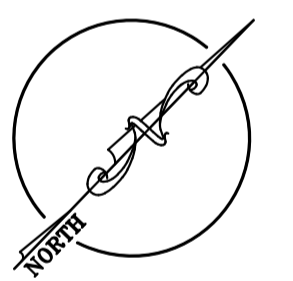
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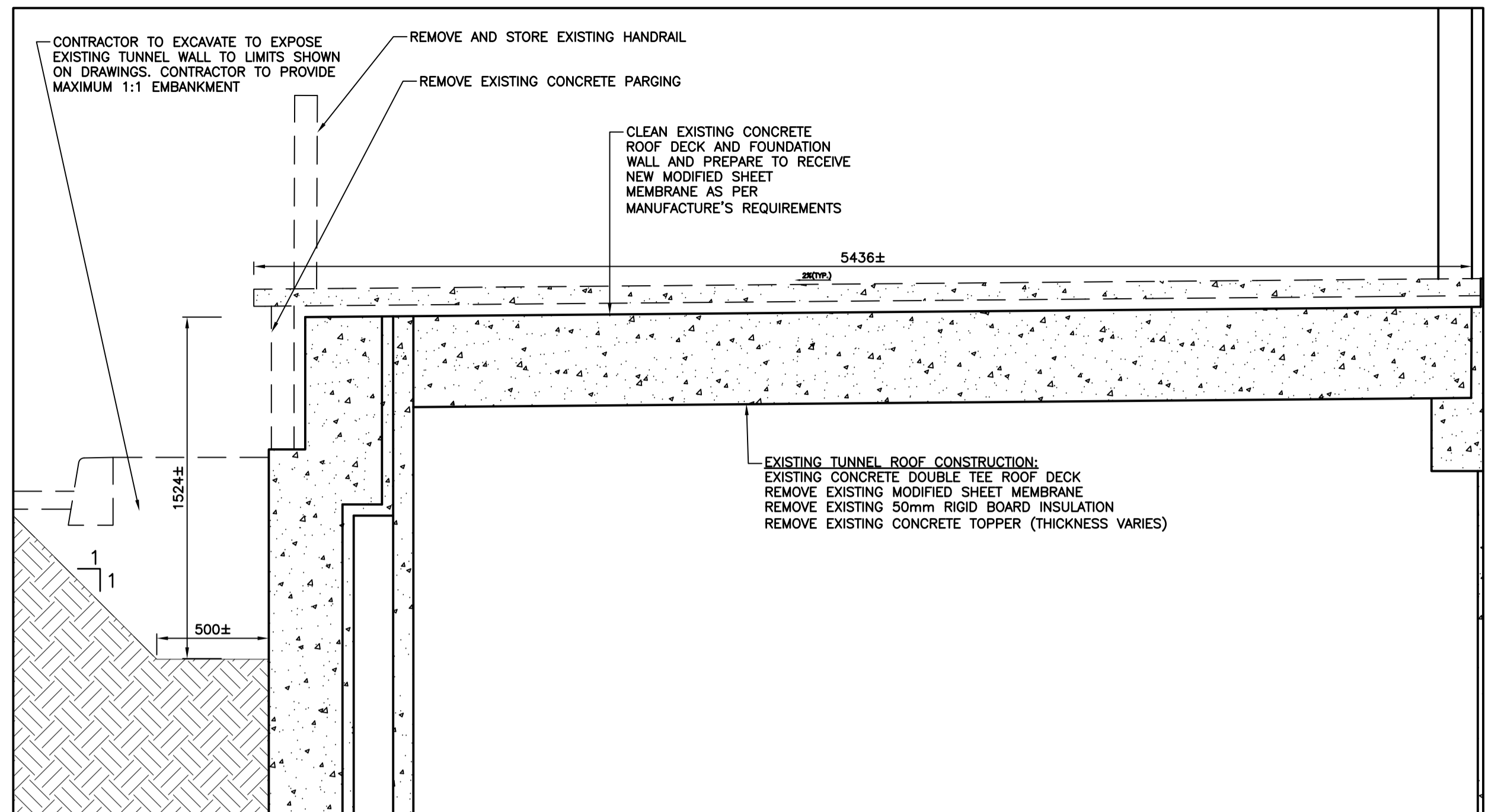
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**ARTS AND ADMINISTRATION
TO MATH DEMOLITION AND
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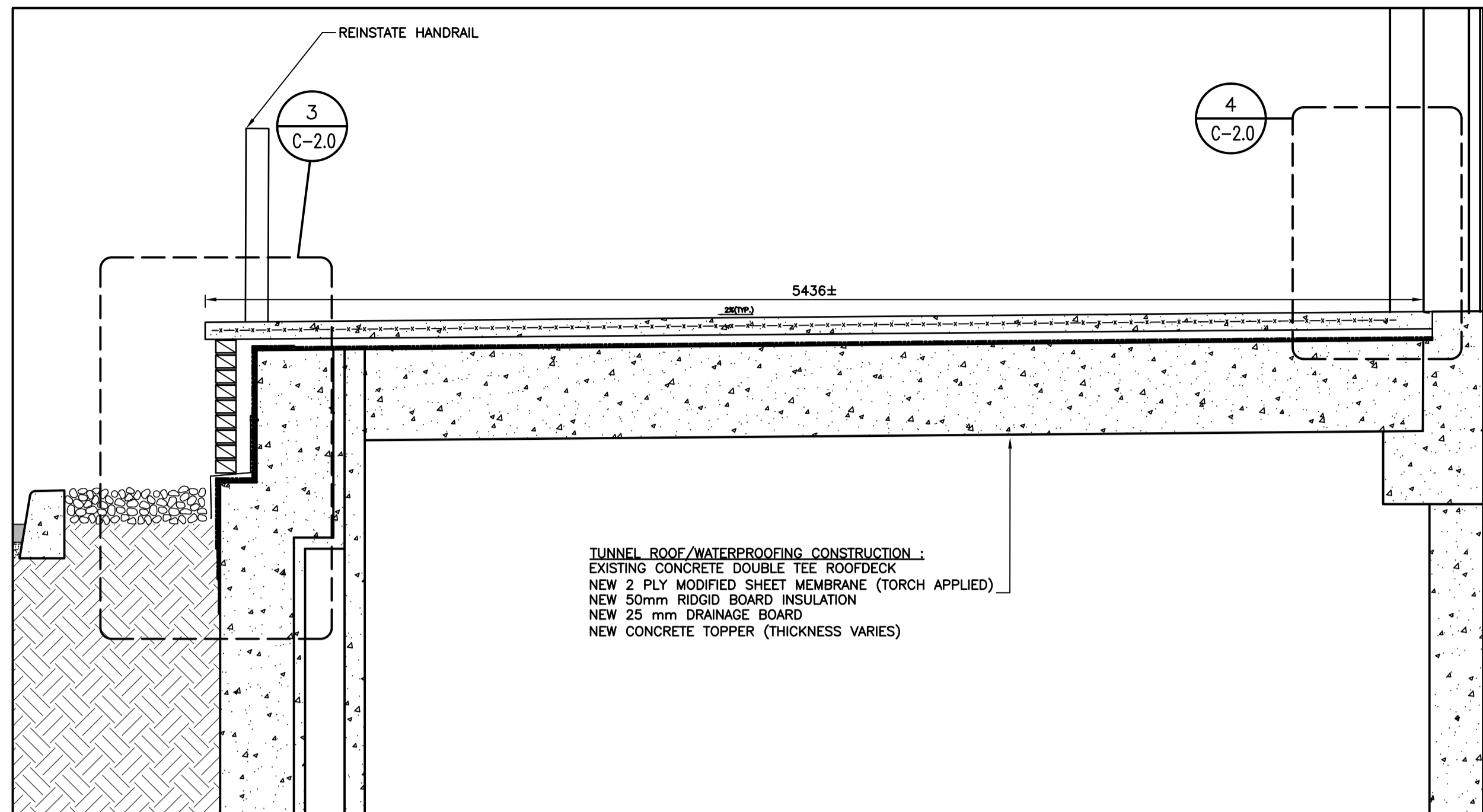
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REMOVAL TUNNEL SECTION

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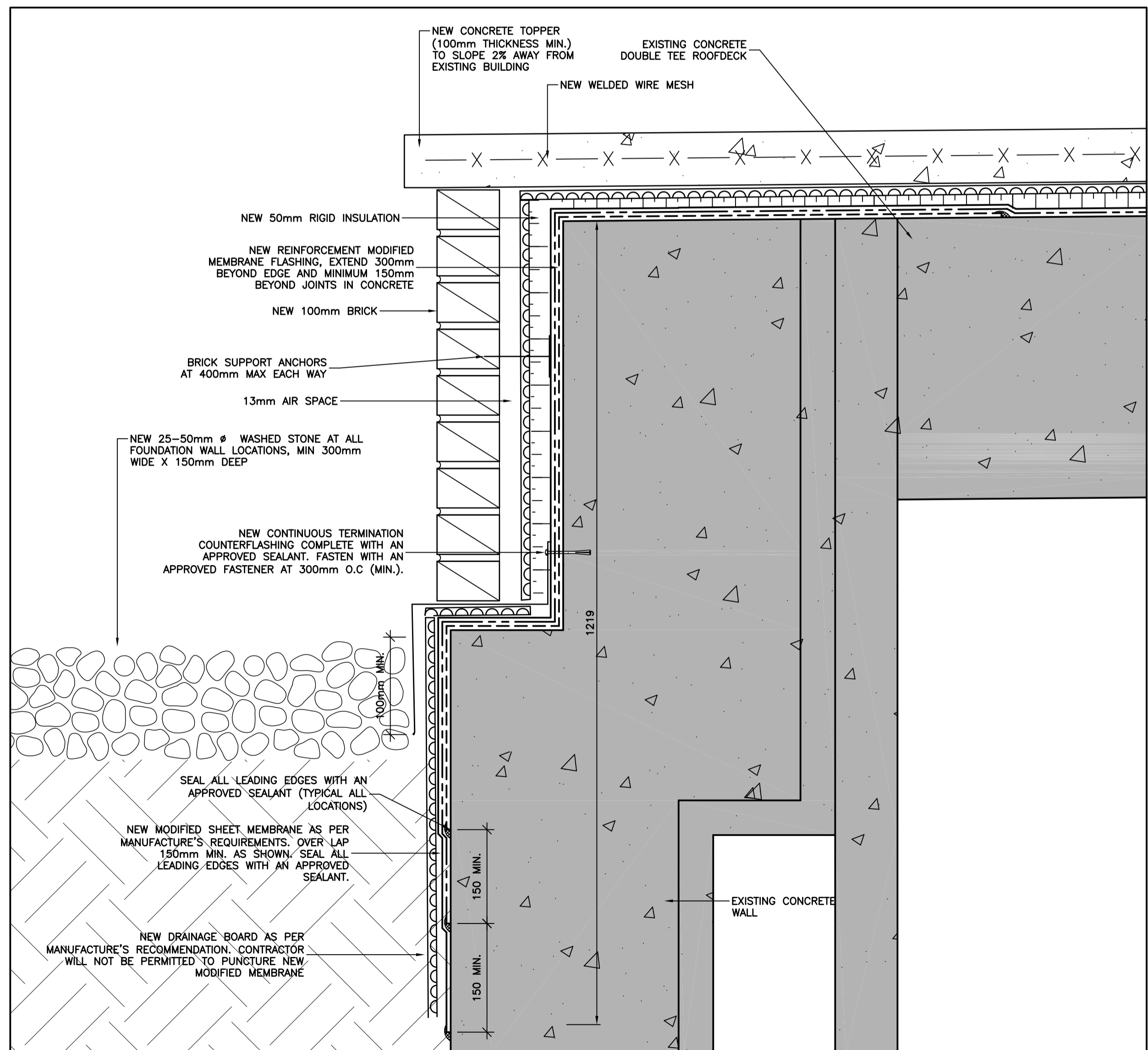
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NEW TUNNEL SECTION

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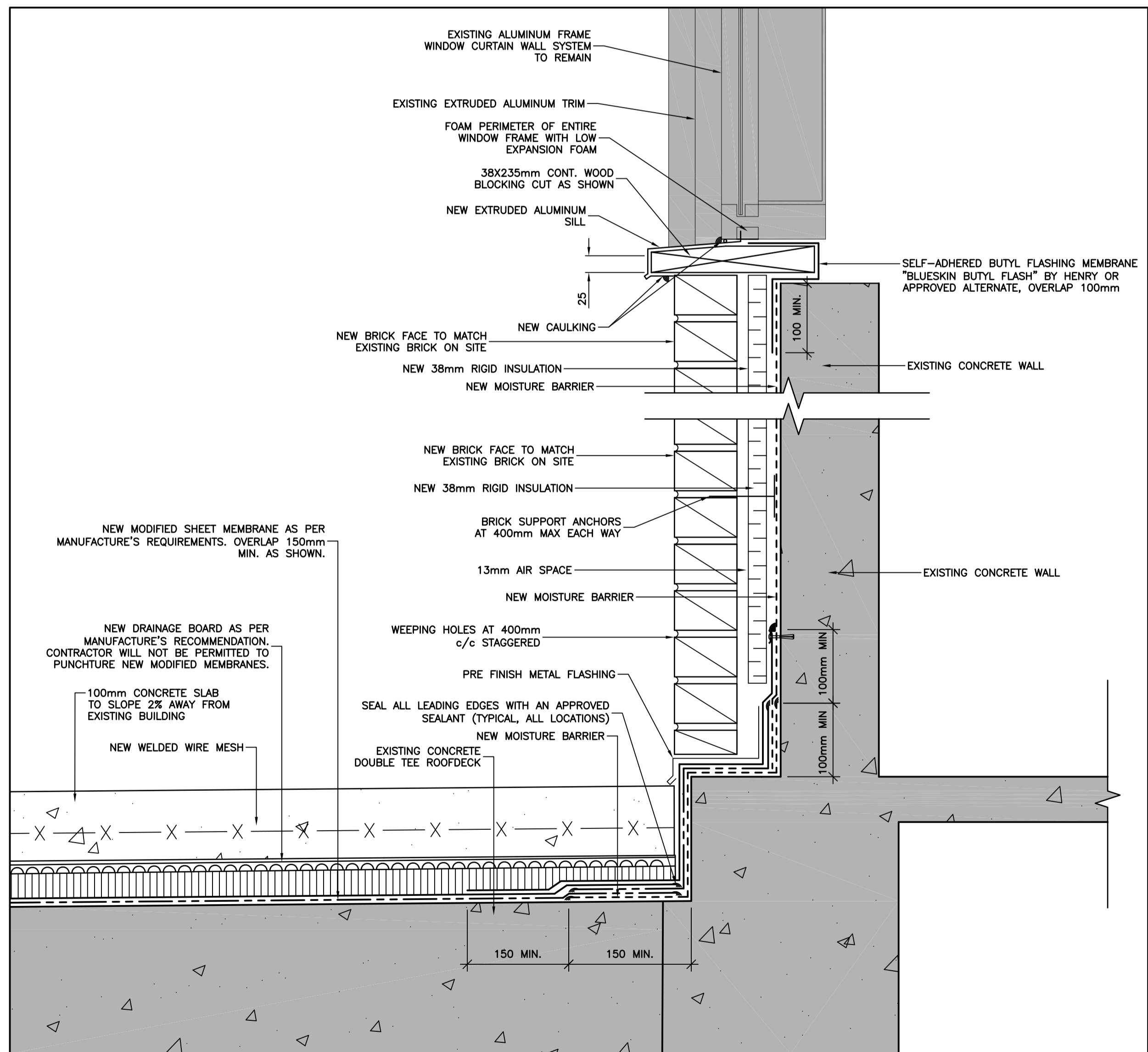
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NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/WALL INTERSECTION

SCALE: 1:5

3
C-2.0



NEW WATERPROOF MEMBRANE: TYPICAL ROOF/WALL INTERSECTION DETAIL

SCALE: 1:5

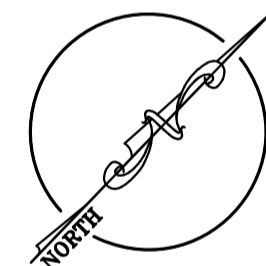
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- AFTER REINFORCING STEEL SHALL HAVE A YIELD STRENGTH OF 400 MPa AND SHALL CONFORM TO CSA-A23 AND CSA G30.18
- MIN CONCRETE COVER OVER REINFORCING STEEL SHALL BE 75mm.
- TUNNEL WATERPROOFING MEMBRANE SYSTEM SHALL BE COLPHENE FLAM 180 OR APPROVED ALTERNATE. APPLIED ACCORDING TO MANUFACTURE'S SPECIFICATIONS. CONTRACTOR SHALL PROCEED AS FOLLOWS:
 - REMOVE EXISTING EXPOSED TUNNEL MEMBRANE ON TUNNEL FLOOR.
 - POWER WASH TUNNEL CONCRETE WITH A MINIMUM PRESSURE OF 5000 PSI TO REMOVE ALL DUST, GRIME, GREASE AND DEBRIS.
 - ALLOW TUNNEL CONCRETE TO DRY COMPLETELY FOR 24 HOURS.
 - APPLY ELASTOCOL 500 PRIMER TO ENTIRETY OF CLEAN, DRY TUNNEL SURFACE AND ALLOW TO DRY.
 - INSTALL FIRST LAYER OF COLPHENE FLAM 180. LONGITUDINAL OVERLAPS SHALL BE MINIMUM 100mm. MEMBRANE SHALL LAP TUNNEL WALLS BY MINIMUM 200mm. WALL LAP SHALL BE SECURED TO TUNNEL USING METAL EDGING AND SOPRAMASTIC SEALANT.
 - INSTALL SECOND LAYER OF COLPHENE FLAM 180 AS ABOVE BUT ORIENTED AT 90 DEGREES TO THE FIRST LAYER.
 - REPAIR ANY TEARS AND HOLES USING COLPHENE FLAM 180 PATCHES SIZED 100mm LARGER ALL AROUND THE DAMAGED AREA.
 - INSTALL DELTA-DRAIN 6000 HI-X DRAINAGE BOARD OR APPROVED ALTERNATE OVER MODIFIED SHEET MEMBRANE.



MEMORIAL UNIVERSITY
FACILITIES MANAGEMENT

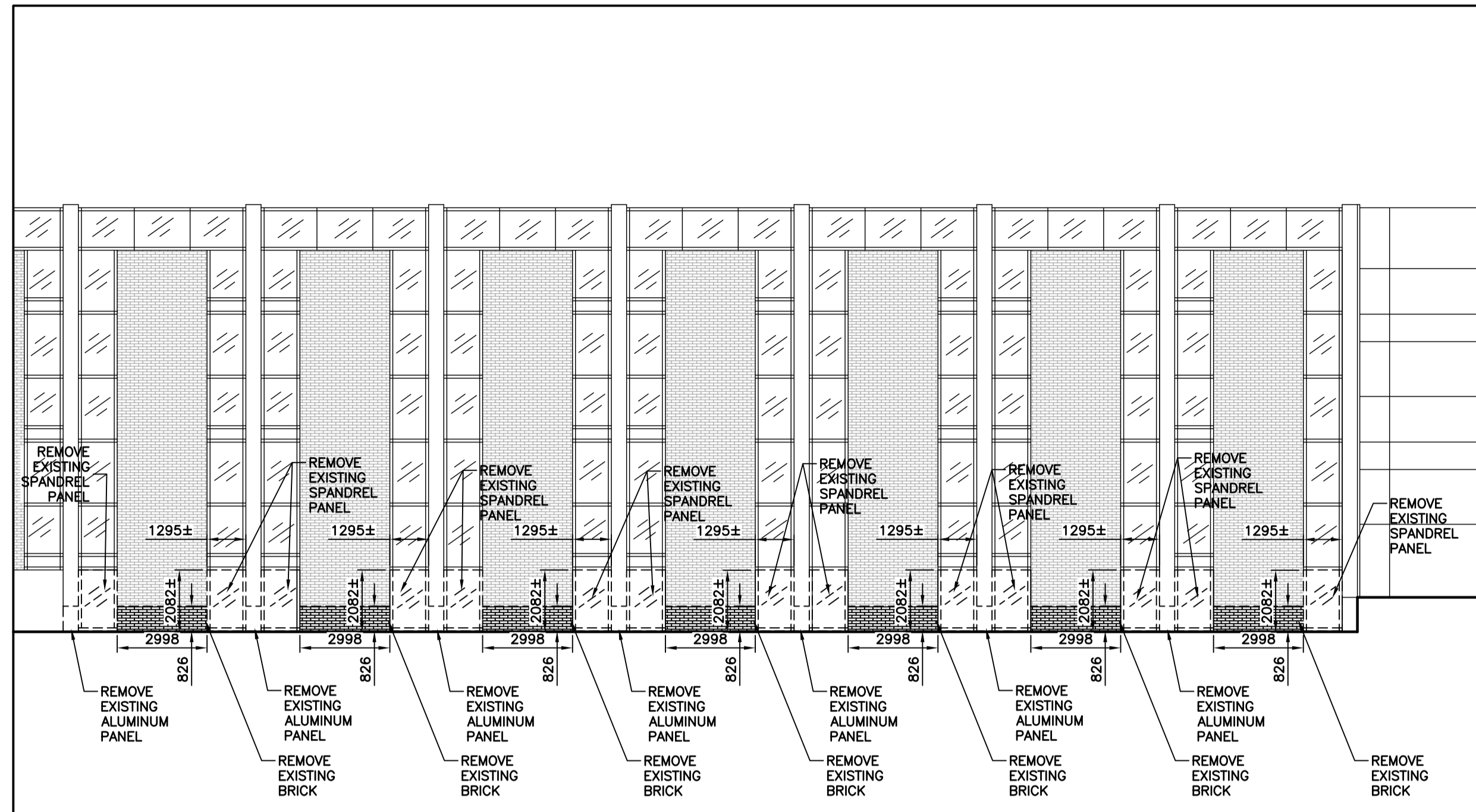
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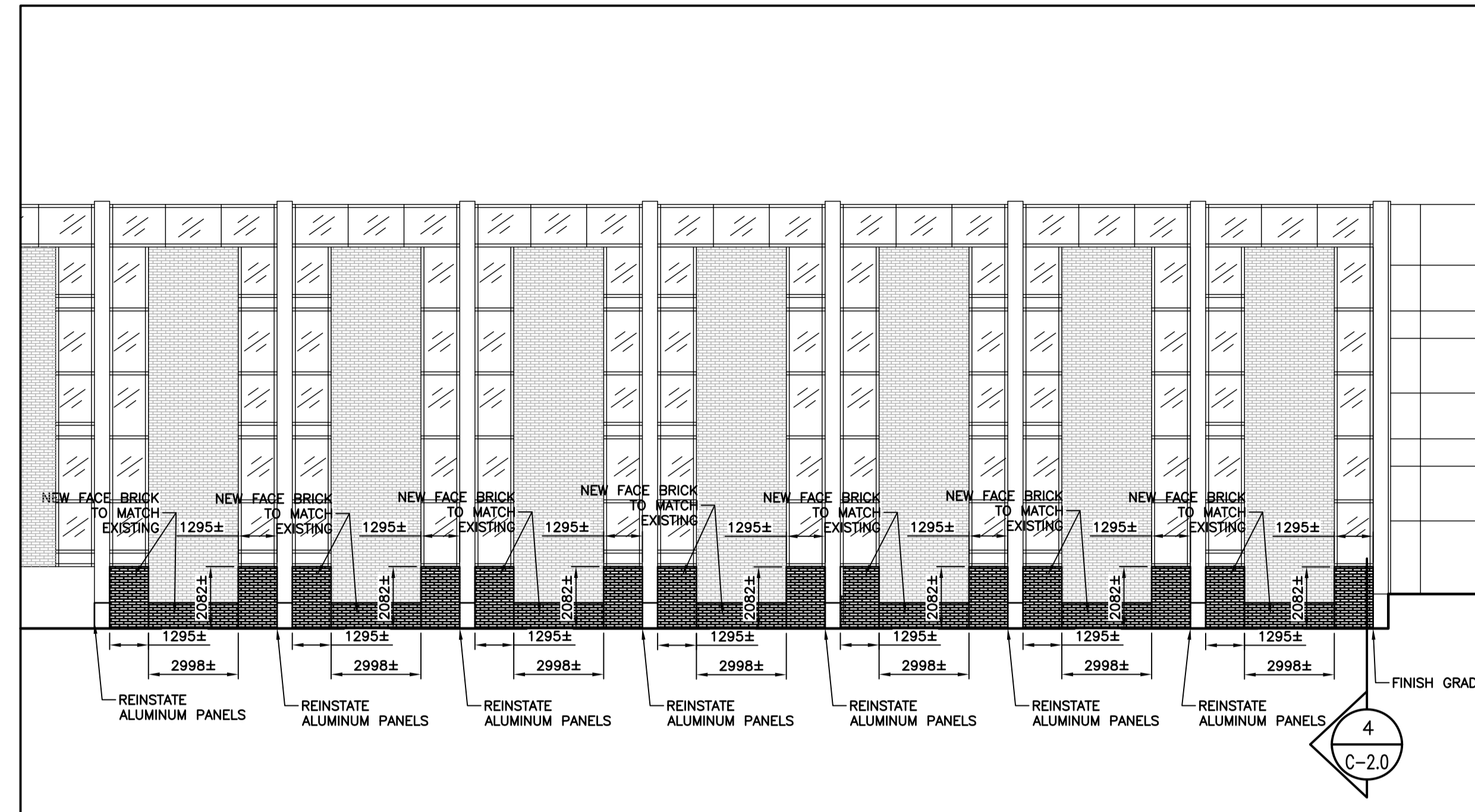
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PROJECT No. TA-511-25	DRAWING No. C-2.0



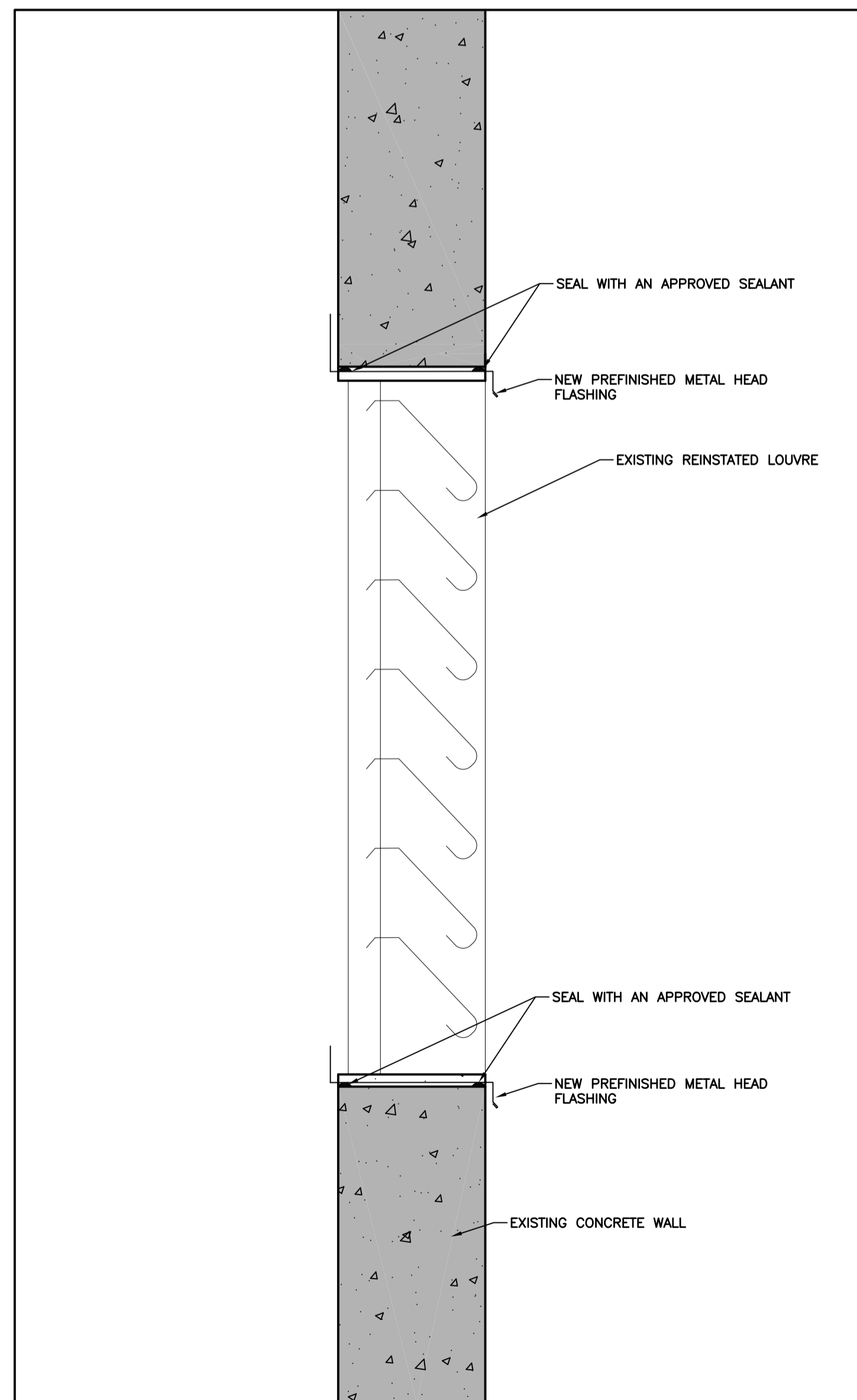
DEMOLITION WEST ELEVATION EDUCATION BUILDING
SCALE: 1:150

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C-2.1



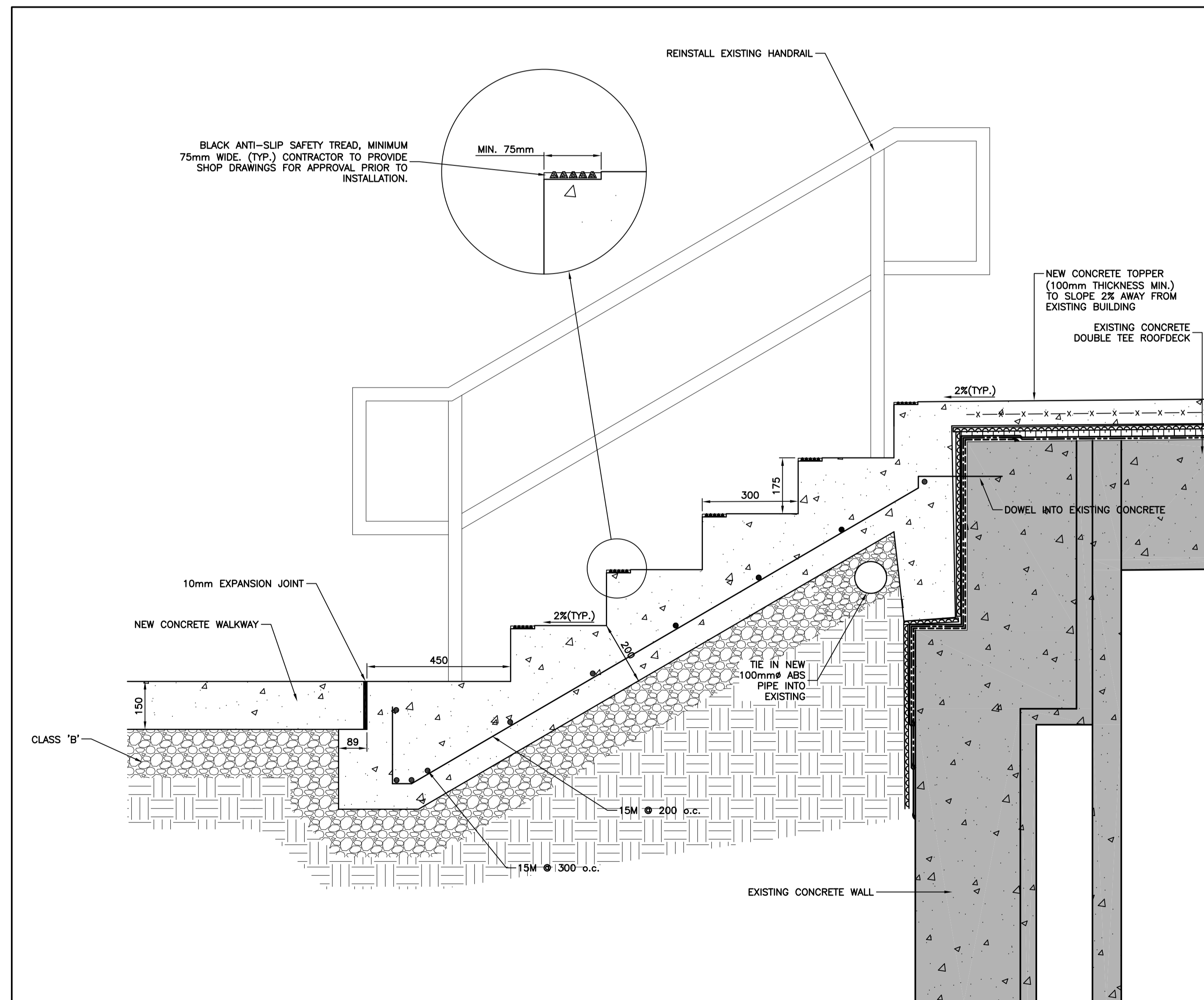
NEW WEST ELEVATION EDUCATION BUILDING
SCALE: 1:150

2
C-2.1



EDUCATION BUILDING LOUVRE DETAIL
SCALE: 1:10

3
C-2.1



NEW STAIRS AT EDUCATION BUILDING DETAIL
SCALE: 1:10

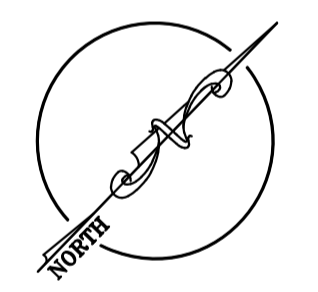
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C-2.1


A	A - DETAIL	A
B	B - LOCATION/DRAWING No.	B C
C	C - DRAWING No.	

No.	REVISION	DATE
R1	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
R0	ISSUED FOR REVIEW	MAR, 2026

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FACILITIES MANAGEMENT

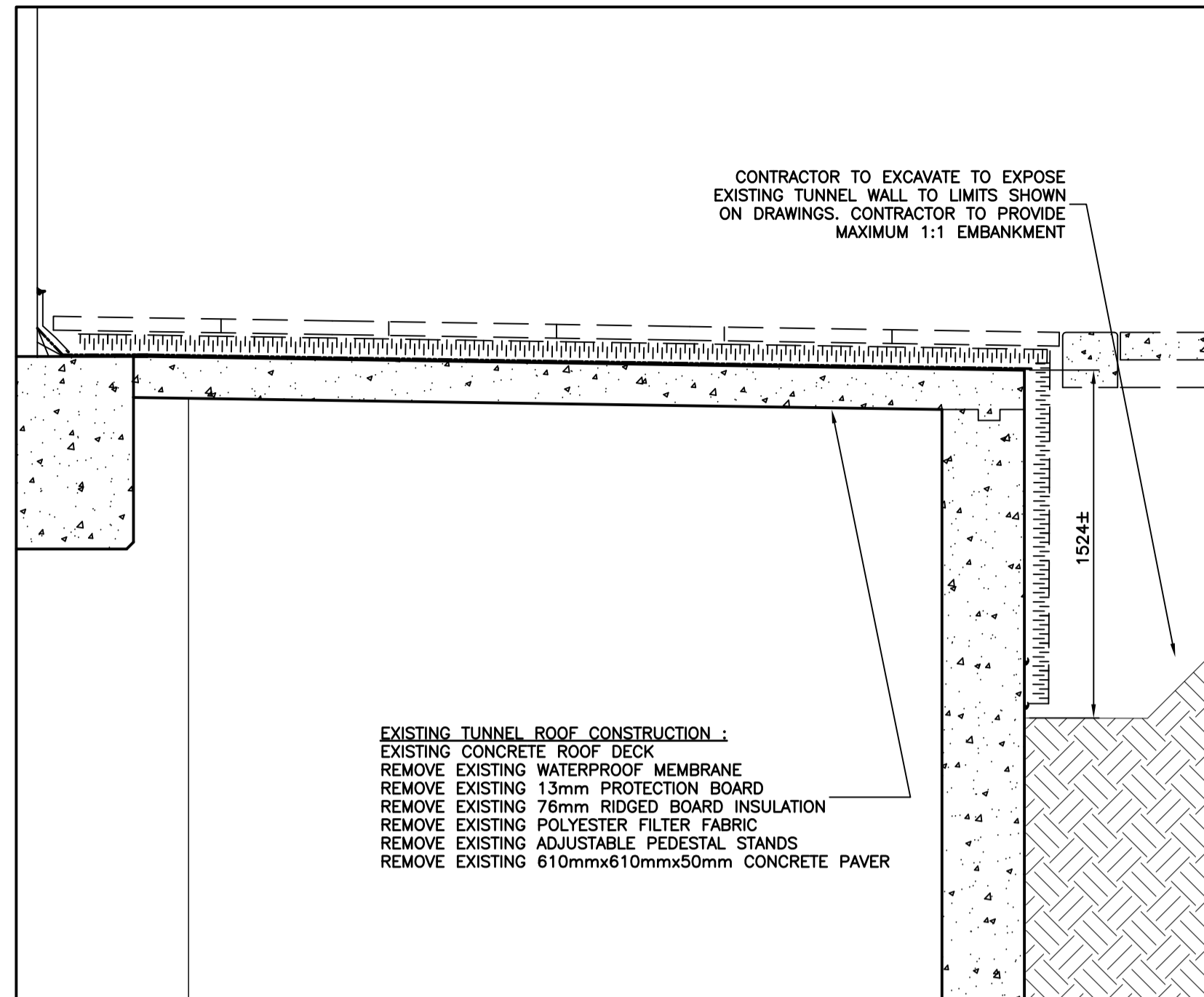
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- Dedication plaque, Arts & Administration Building, St. John's Campus

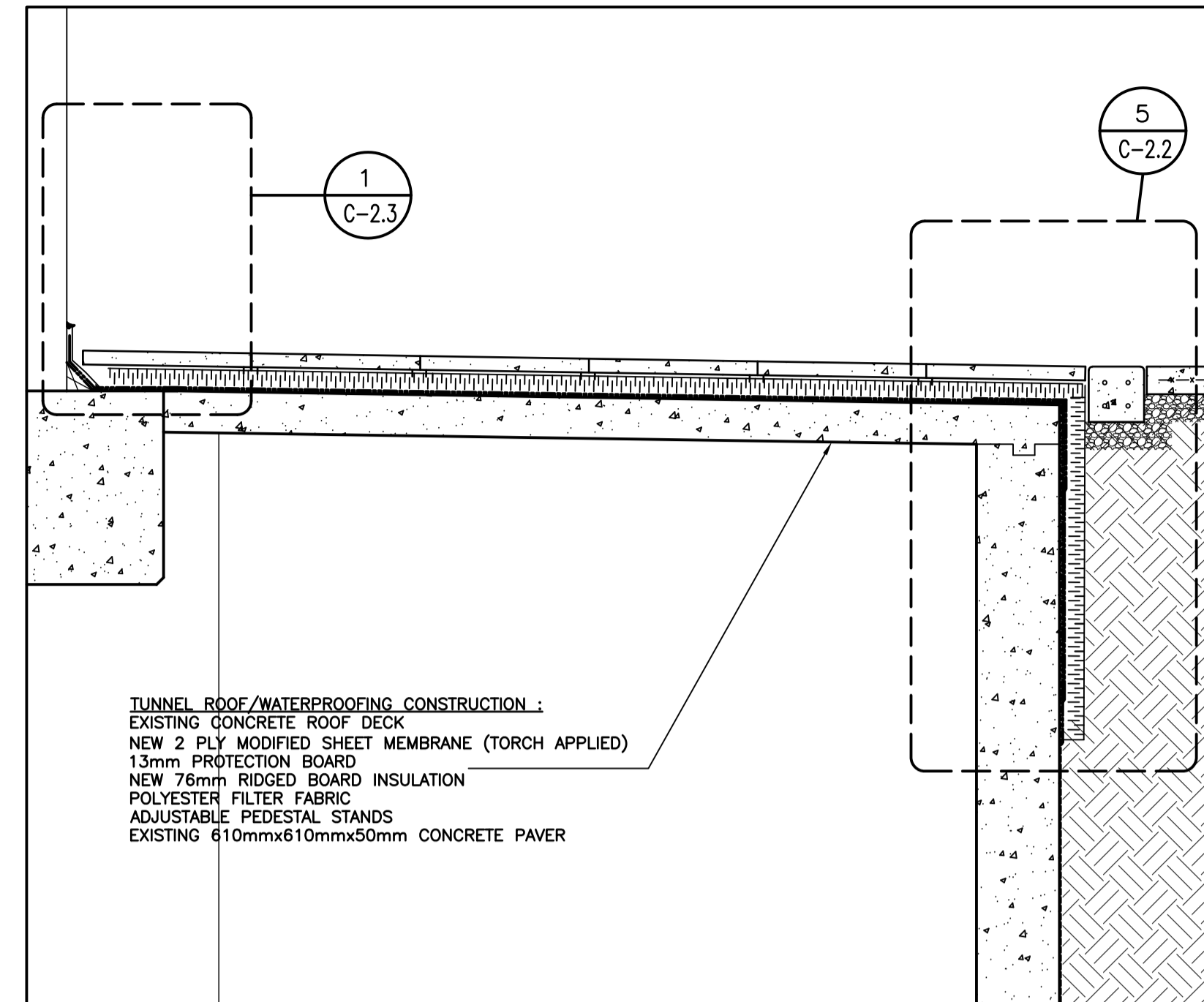
PROJECT NAME:
**ACADEMIC TUNNELS
 RE-WATERPROOFING CP-1**
 Project #: TA-511-25

DRAWING TITLE:
SECTIONS AND DETAILS

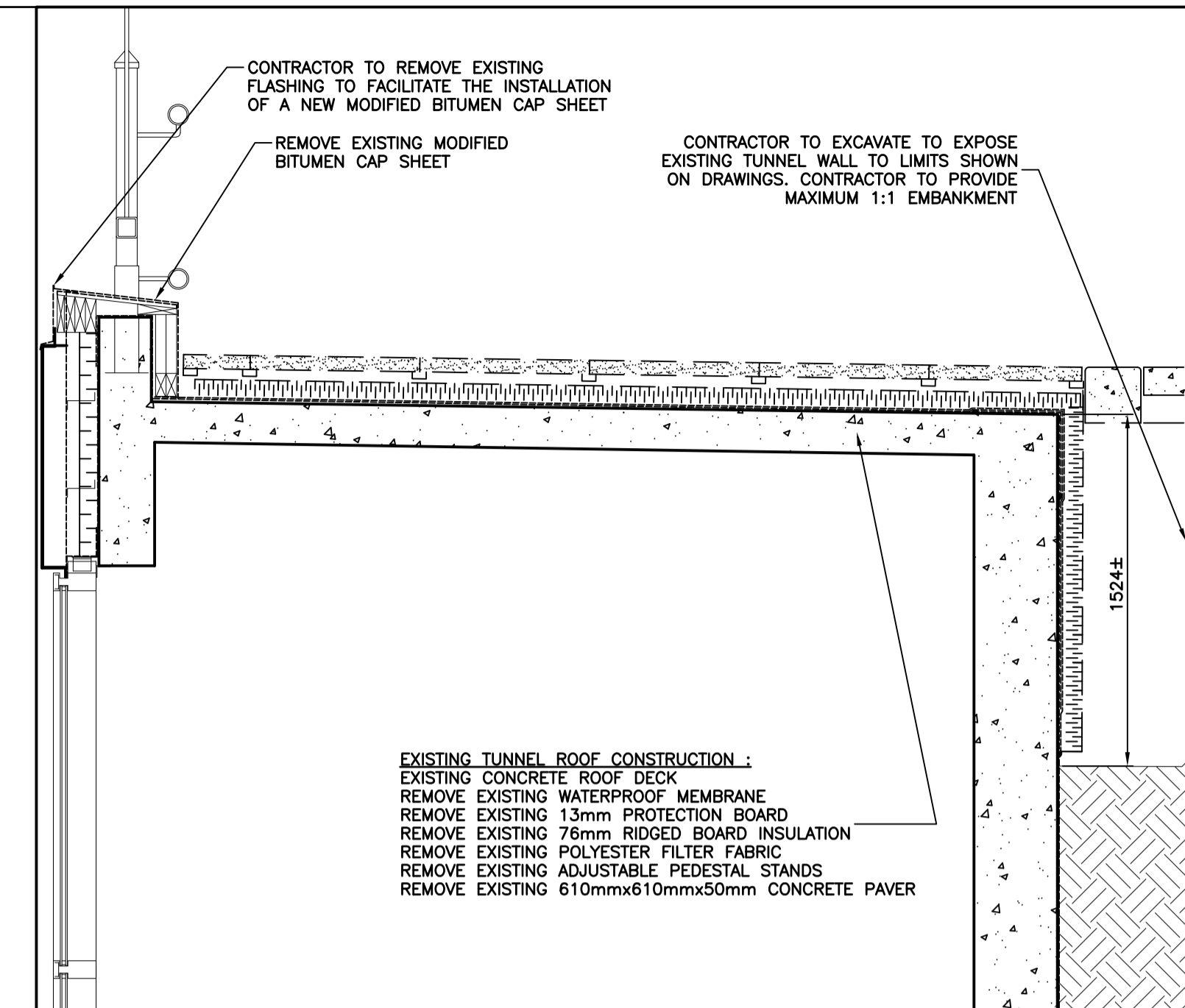
DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.1



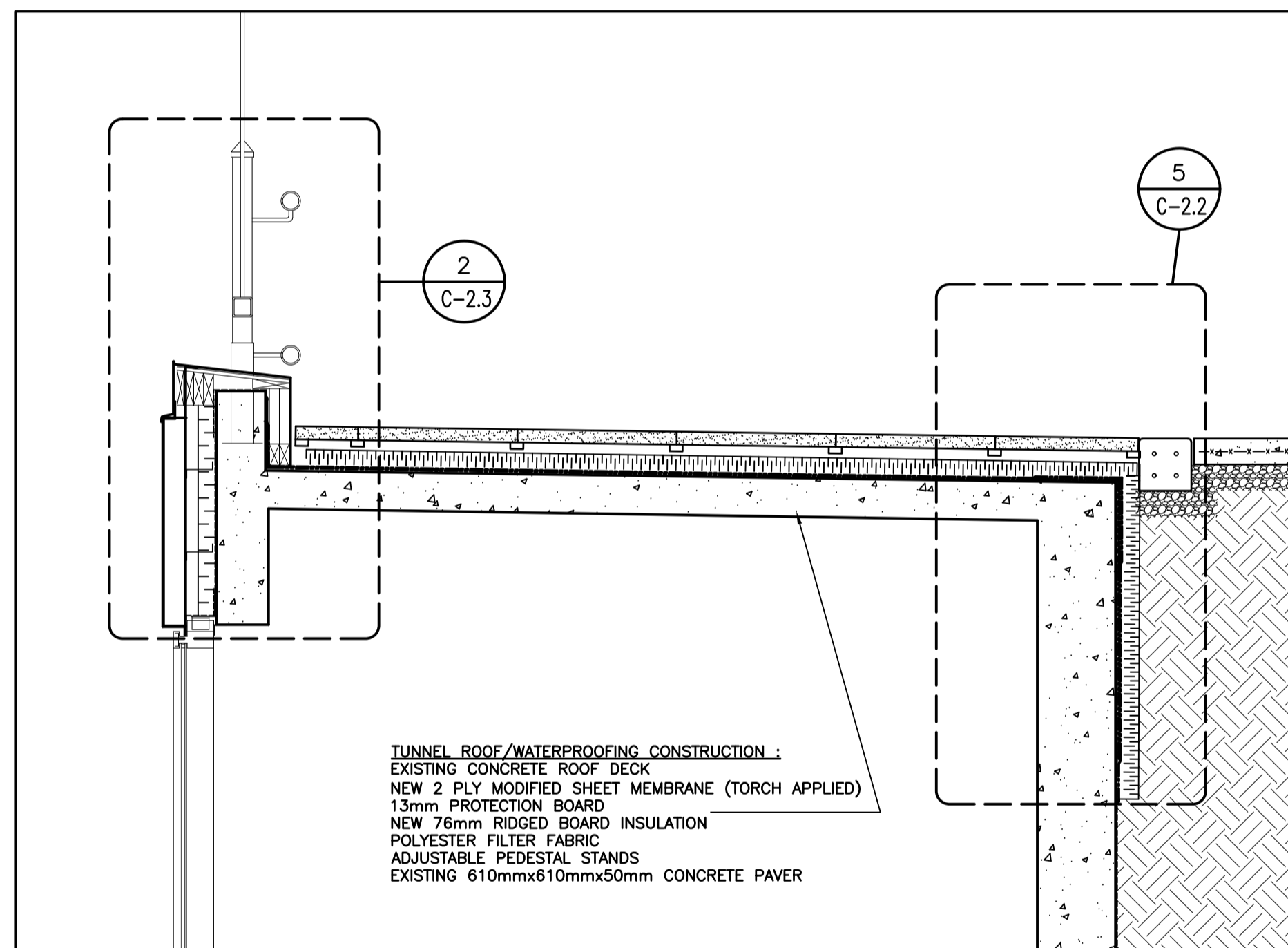
REMOVAL TUNNEL SECTION
 SCALE: 1:20



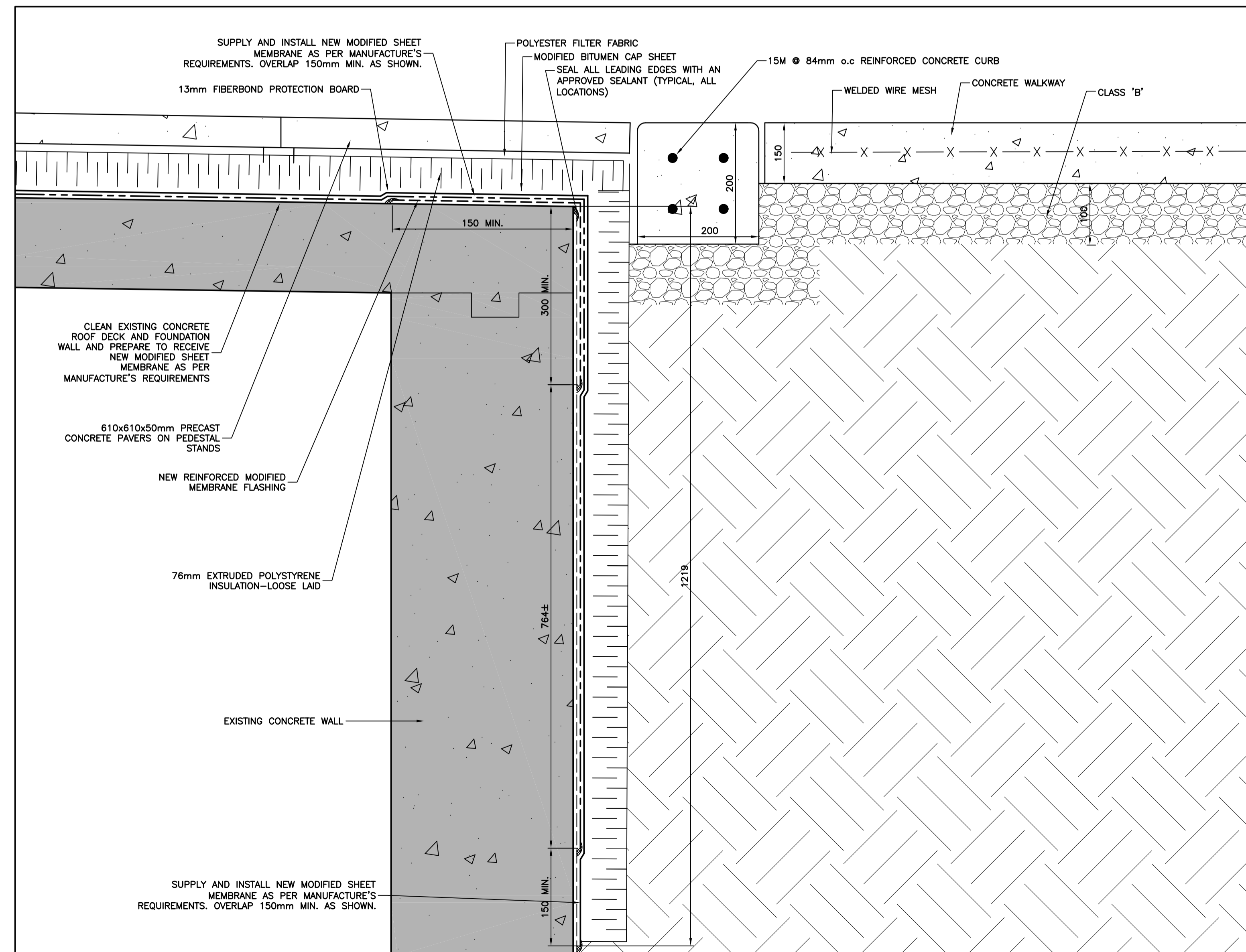
NEW TUNNEL SECTION
 SCALE: 1:20



REMOVAL TUNNEL SECTION
 SCALE: 1:30



NEW TUNNEL SECTION
 SCALE: 1:20



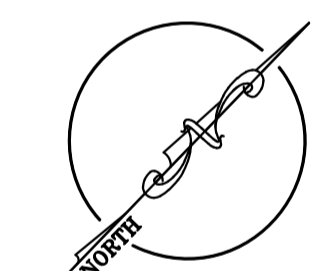
NEW WATERPROOF MEMBRANE: TYPICAL ROOF WALL INTERSECTION DETAIL
 SCALE: 1:5

A	A - DETAIL	A
B	B - LOCATION/DRAWING No.	B C
C	C - DRAWING No.	

No.	REVISION	DATE
R2	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
R0	ISSUED FOR REVIEW	MAR, 2026

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MEMORIAL UNIVERSITY
FACILITIES MANAGEMENT

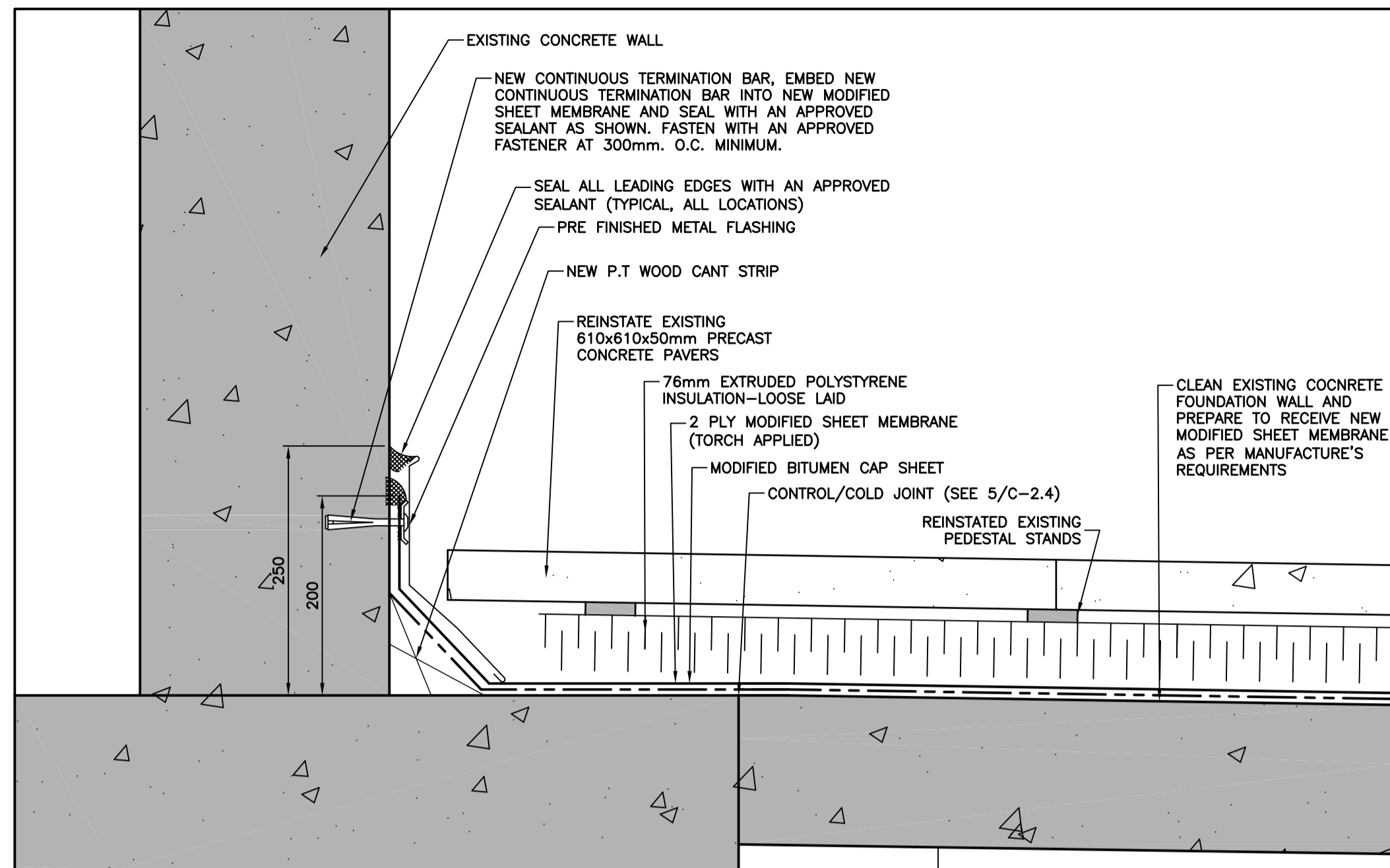
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PROJECT NAME:
**ACADEMIC TUNNELS
 RE-WATERPROOFING CP-1**
 Project #: TA-511-25

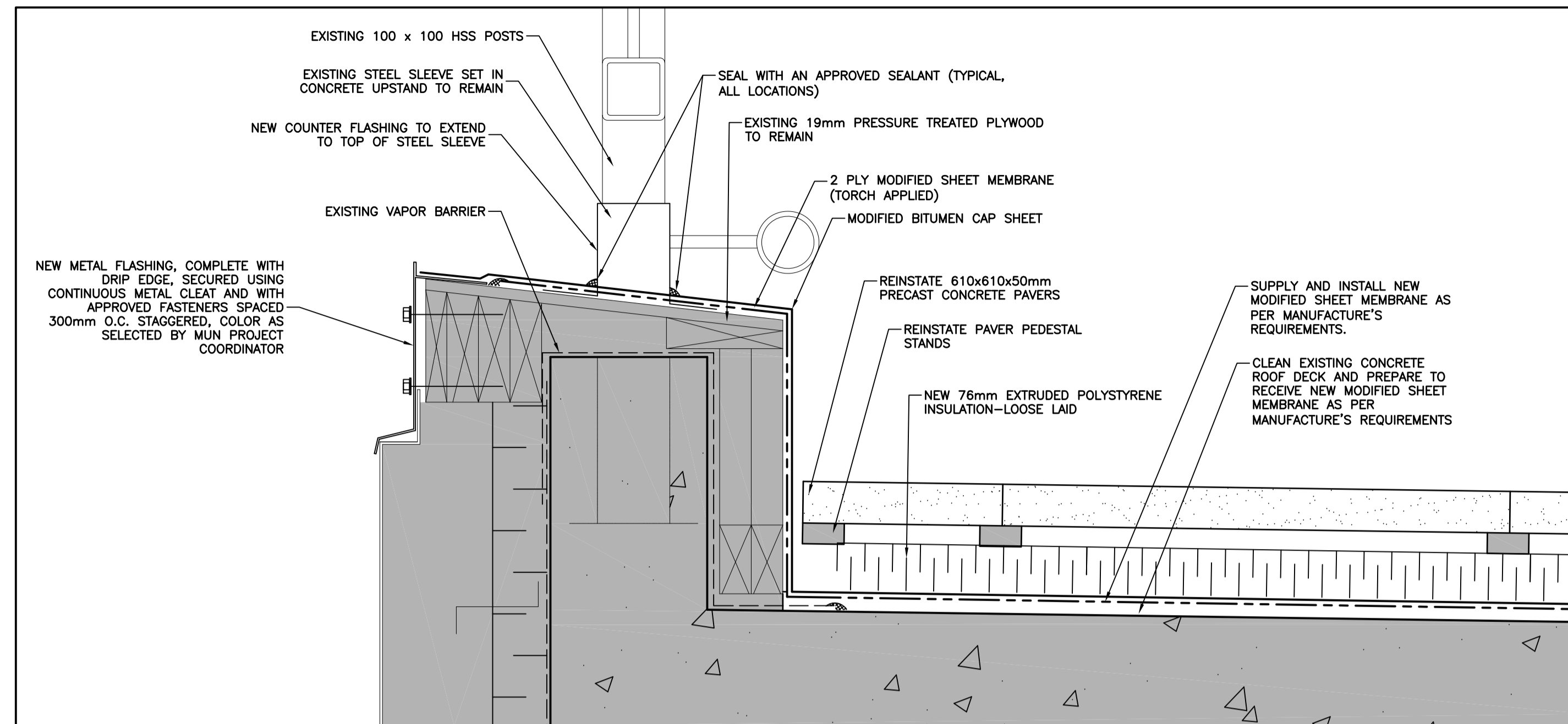
DRAWING TITLE:
SECTIONS AND DETAILS

DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.2



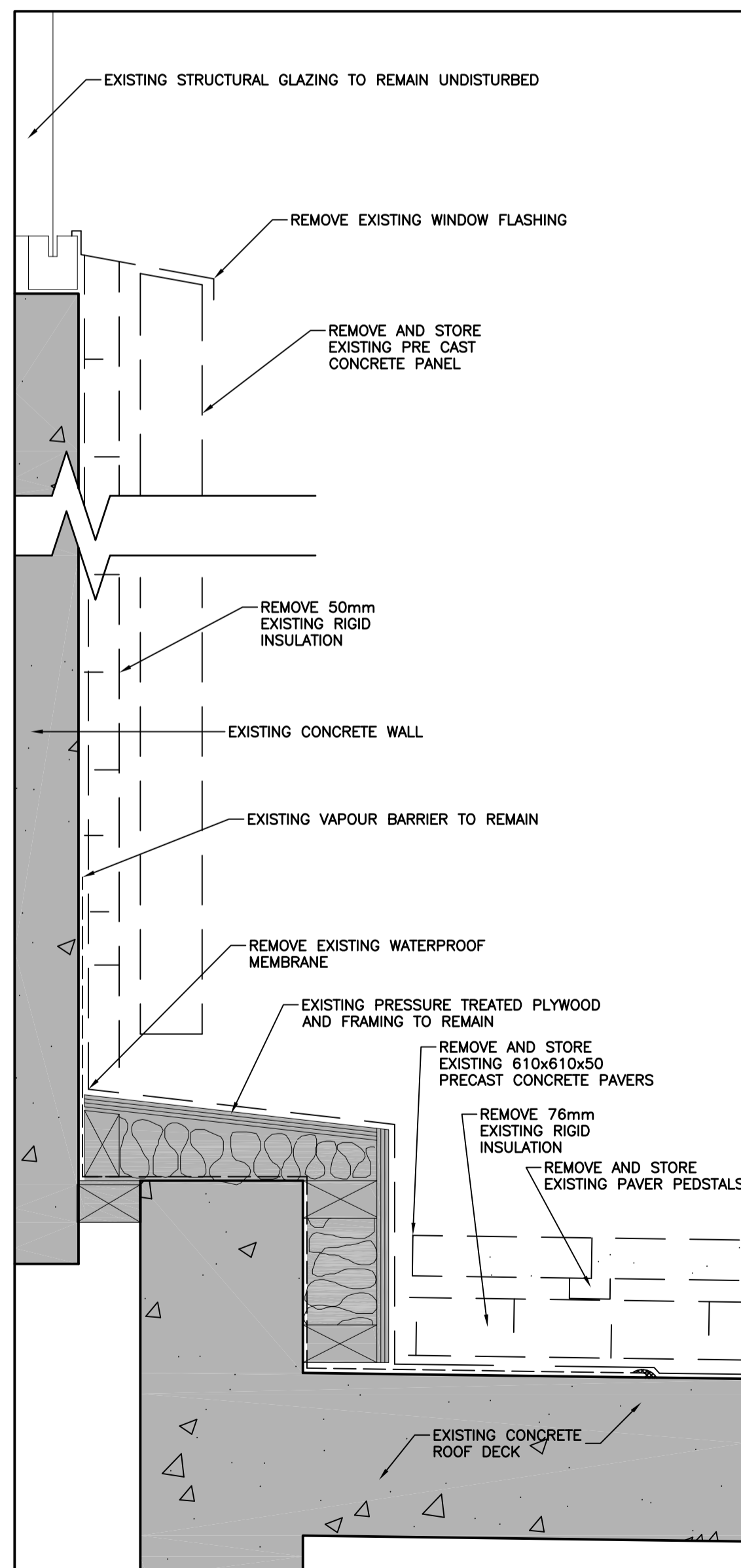
NEW WATERPROOF MEMBRANE: TYPICAL ROOF WALL INTERSECTION DETAIL
SCALE: 1:5

1
C-2.3



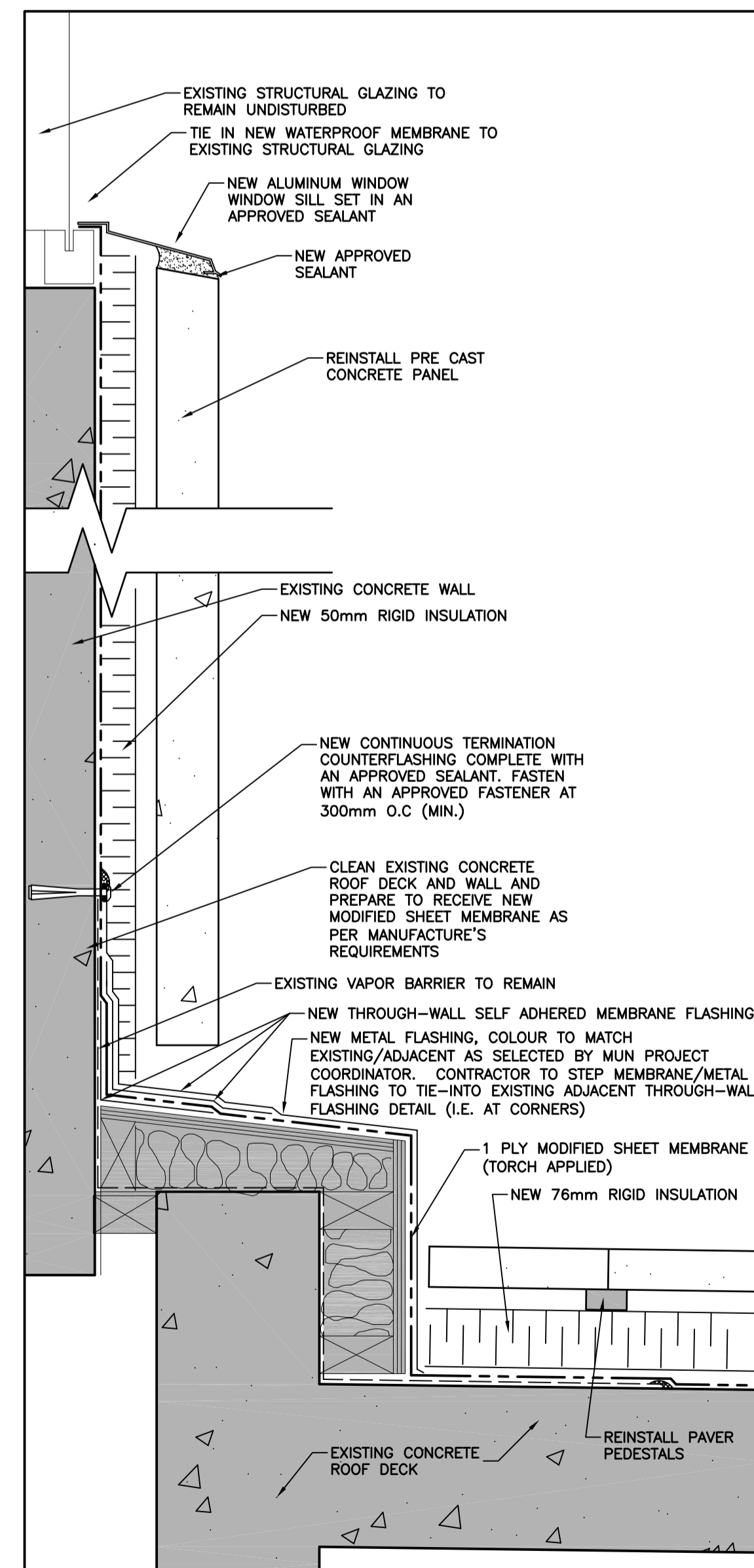
NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/PARAPET INTERSECTION DETAIL
SCALE: 1:5

2
C-2.3



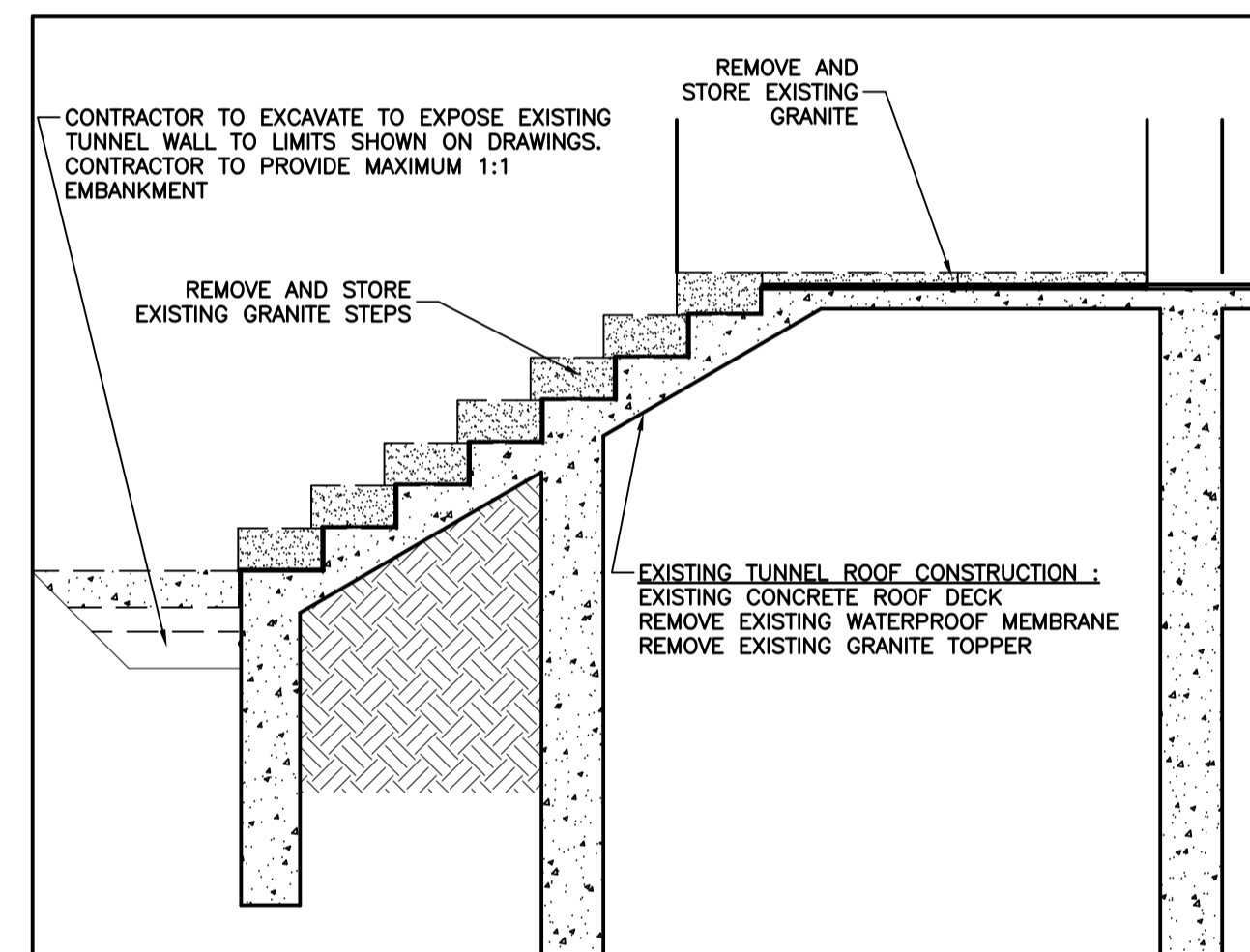
REMOVAL ROOF/WALL INTERSECTION DETAIL
SCALE: 1:5

3
C-2.3



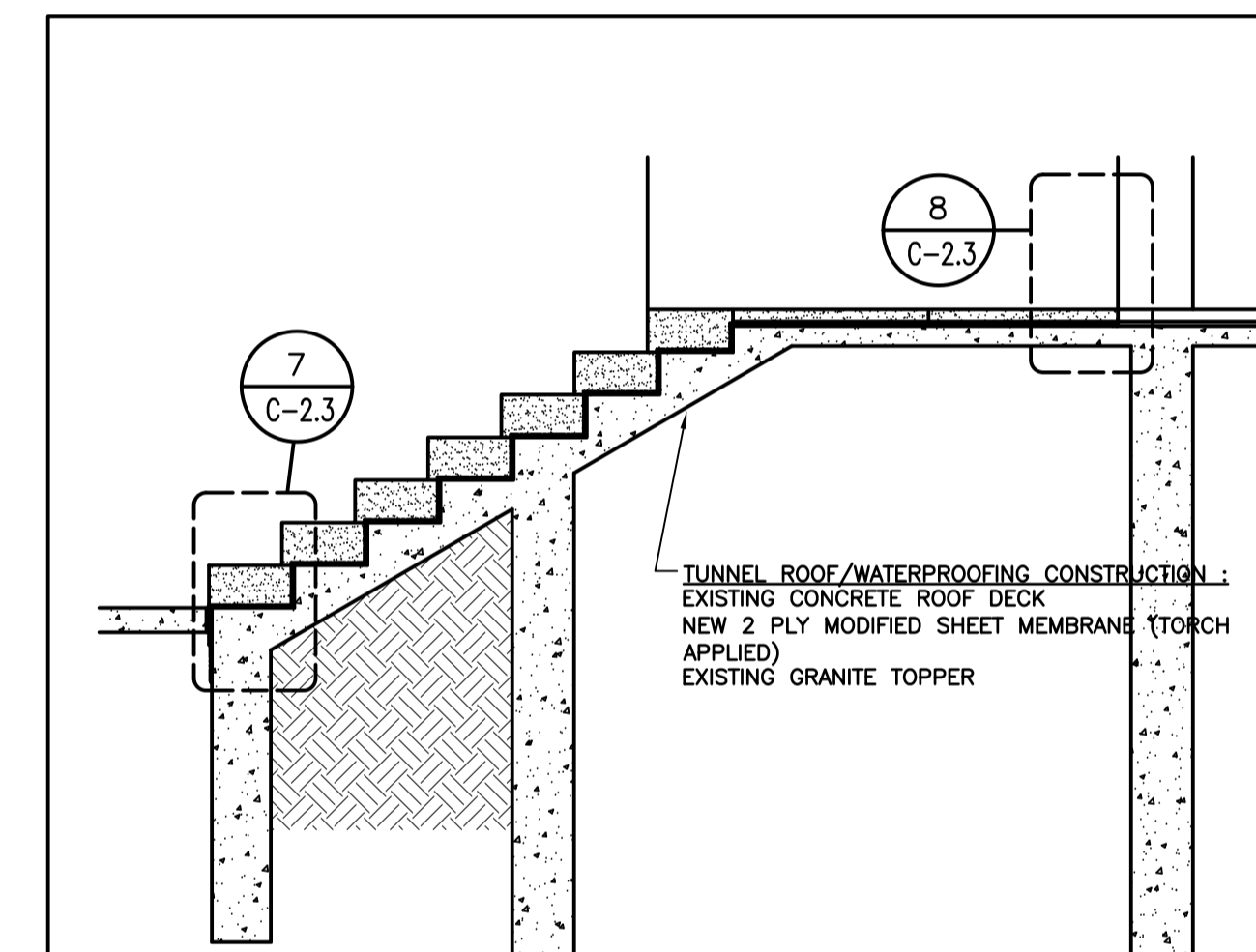
NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/WALL INTERSECTION DETAIL
SCALE: 1:5

4
C-2.3



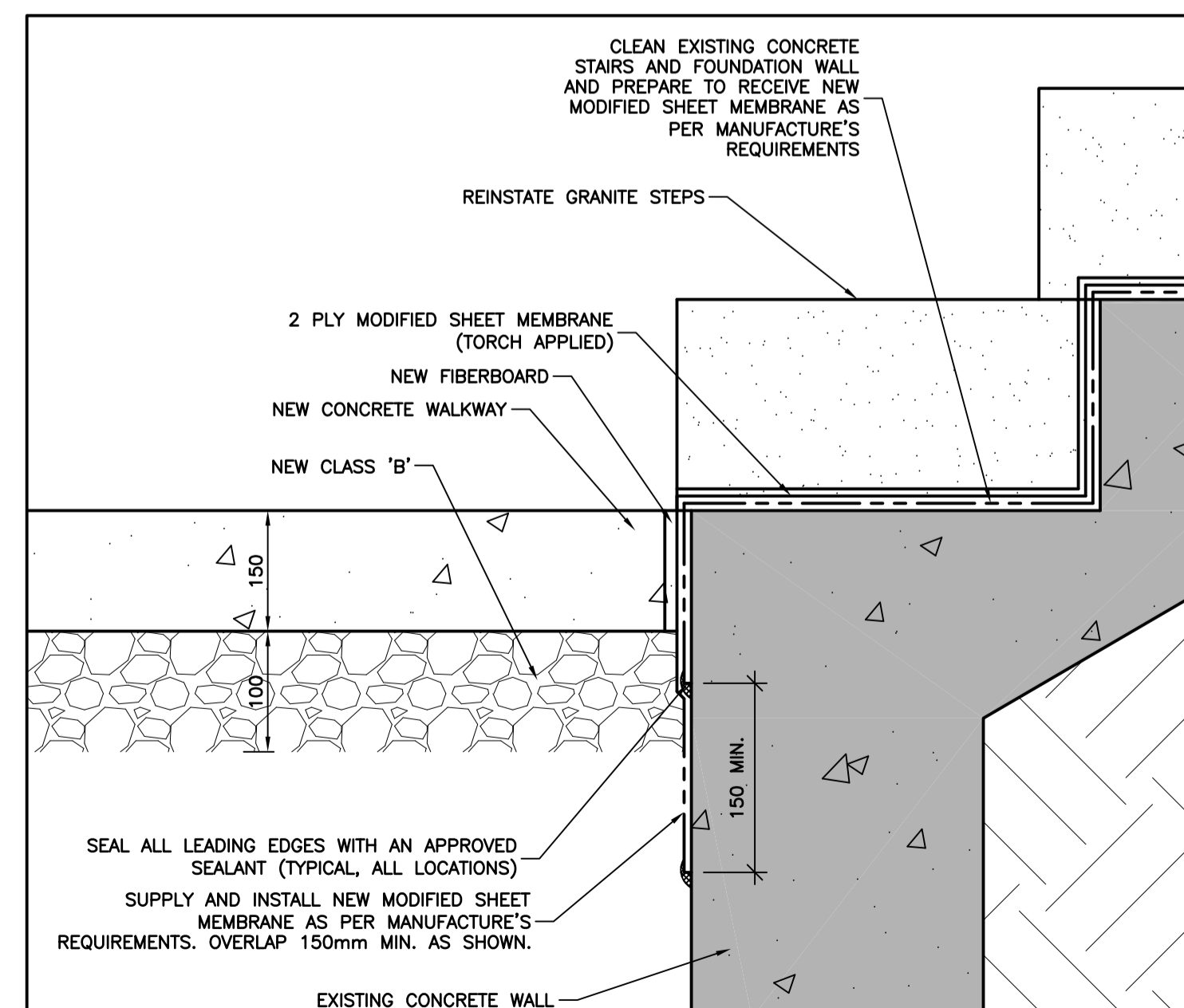
REMOVAL TUNNEL SECTION
SCALE: 1:30

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C-2.3



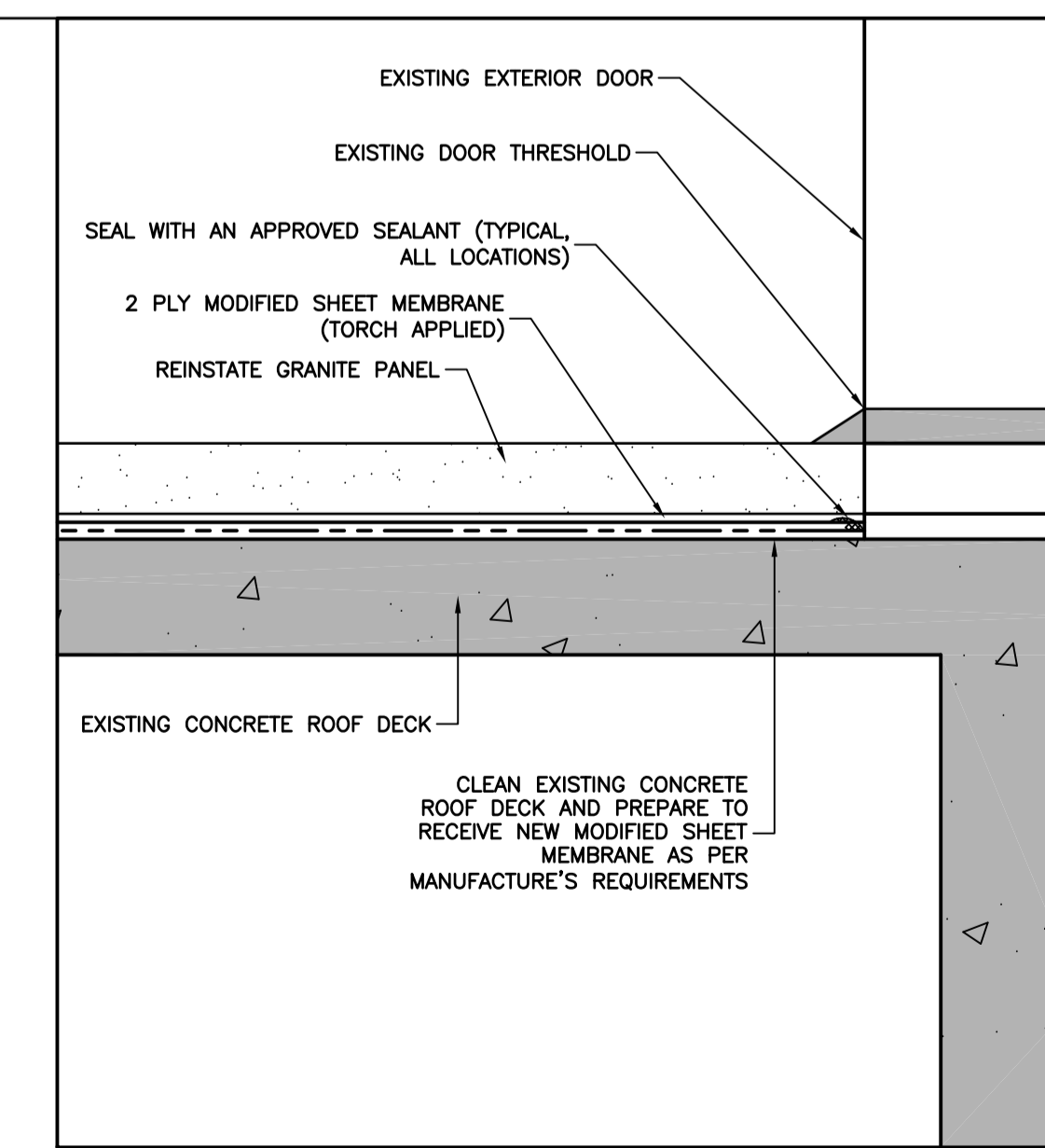
NEW TUNNEL SECTION
SCALE: 1:30

6
C-2.3



NEW WATERPROOFING MEMBRANE: TYPICAL STAIRS DETAIL
SCALE: 1:5

7
C-2.3



NEW WATERPROOFING MEMBRANE: TYPICAL ROOF TO DOOR THRESHOLD DETAIL
SCALE: 1:5

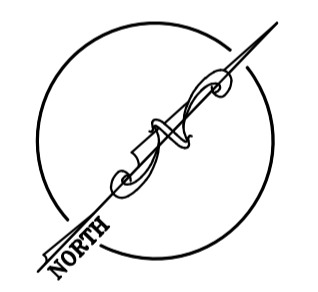
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C-2.3

A - DETAIL
B - LOCATION/DRAWING No.
C - DRAWING No.

No.	REVISION	DATE
R2	ISSUED FOR ADDENDUM#1	APR, 2026
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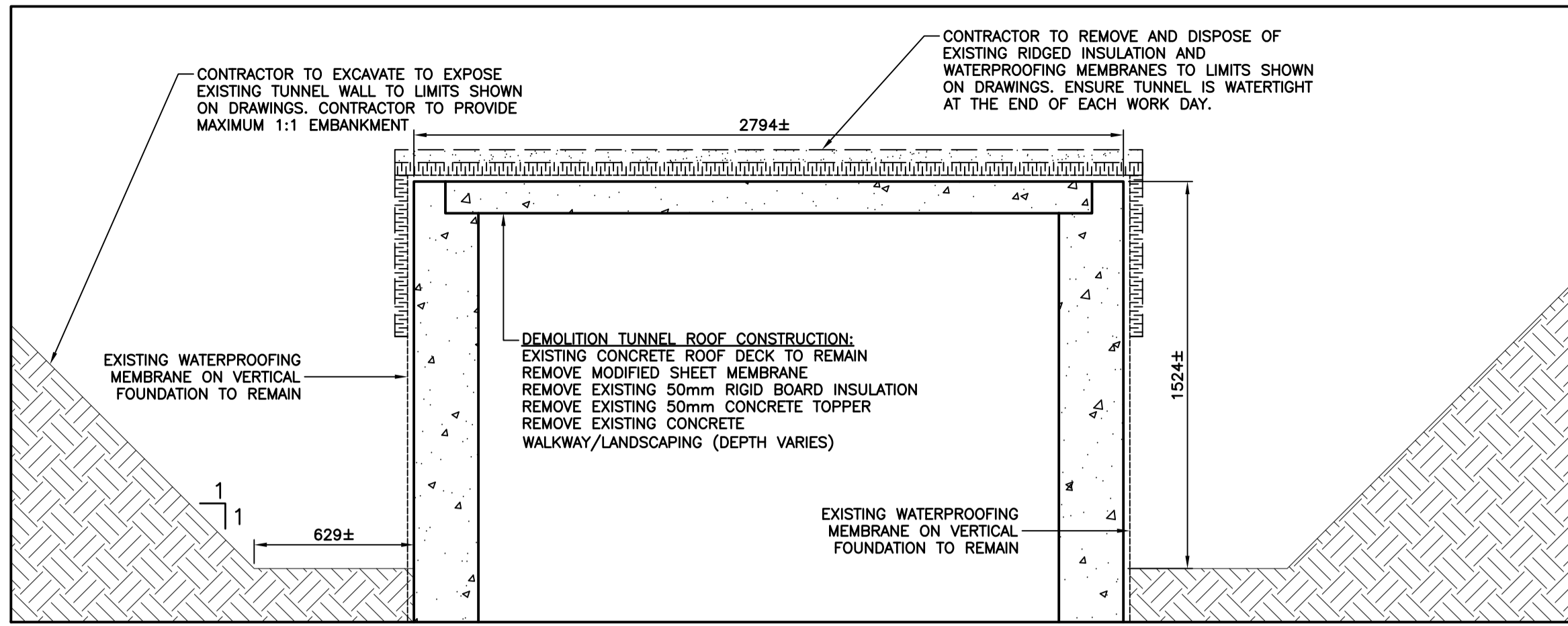


MEMORIAL UNIVERSITY
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PROJECT NAME:
**ACADEMIC TUNNELS
RE-WATERPROOFING CP-1**
Project #: TA-511-25

DRAWING TITLE:
SECTIONS AND DETAILS

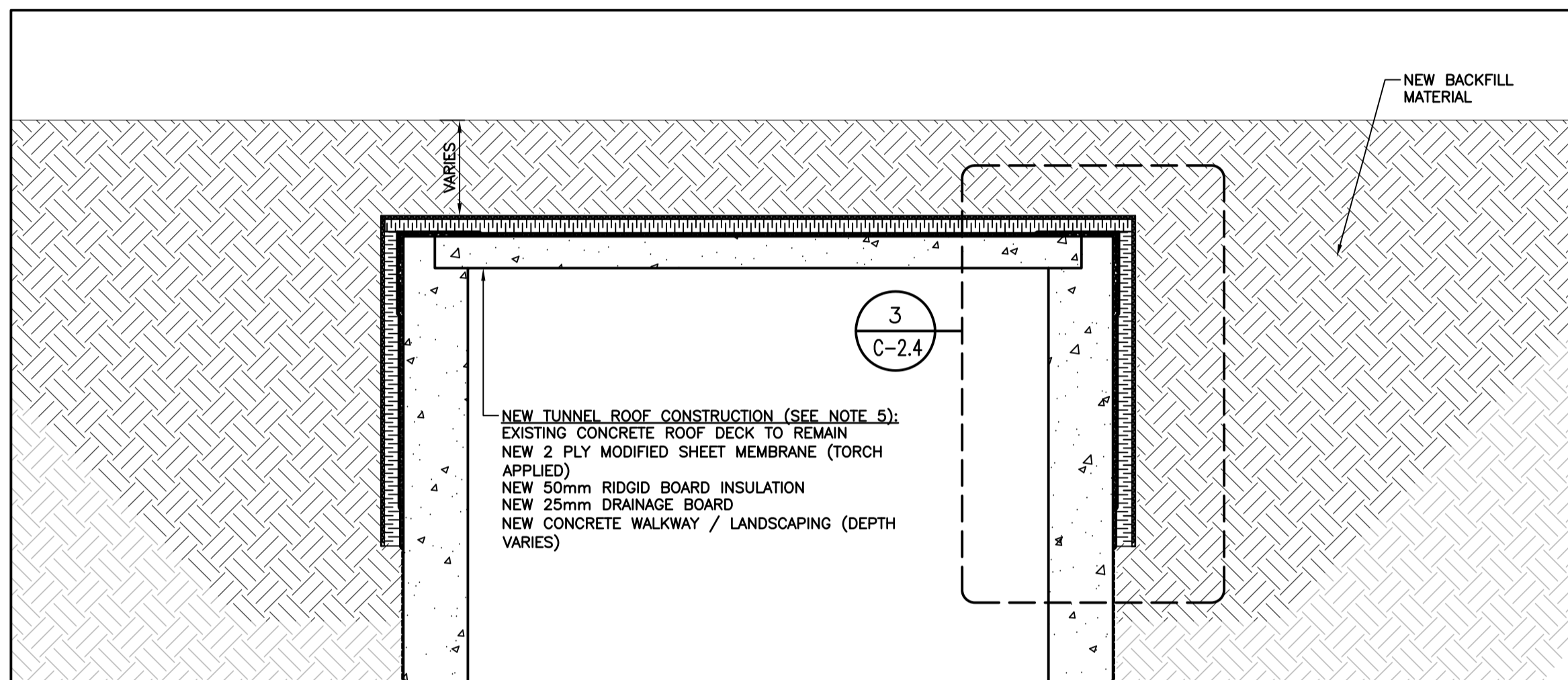
DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.3



DEMOLITION TUNNEL SECTION

SCALE: 1:20

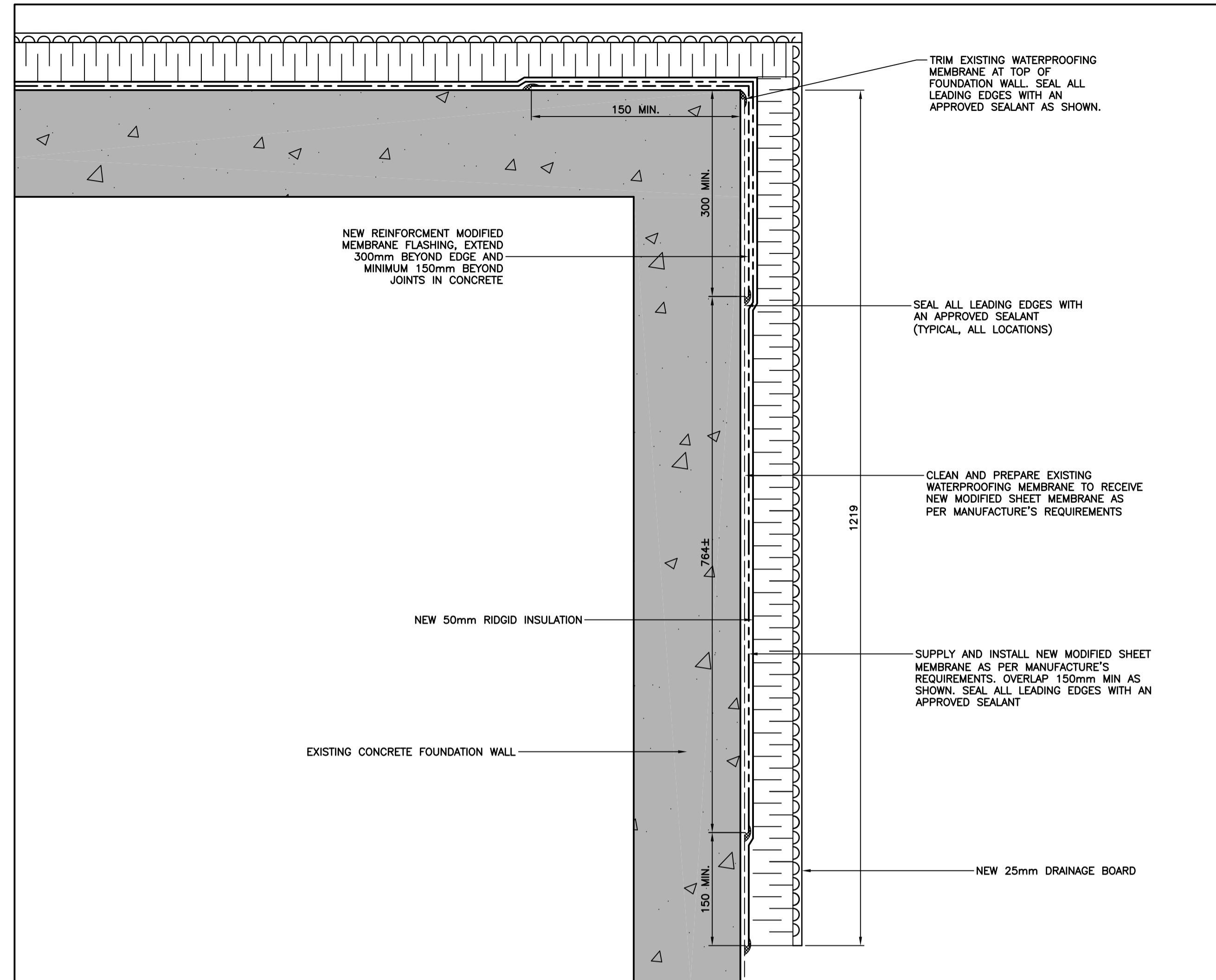
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C-2.4



NEW TUNNEL SECTION

SCALE: 1:20

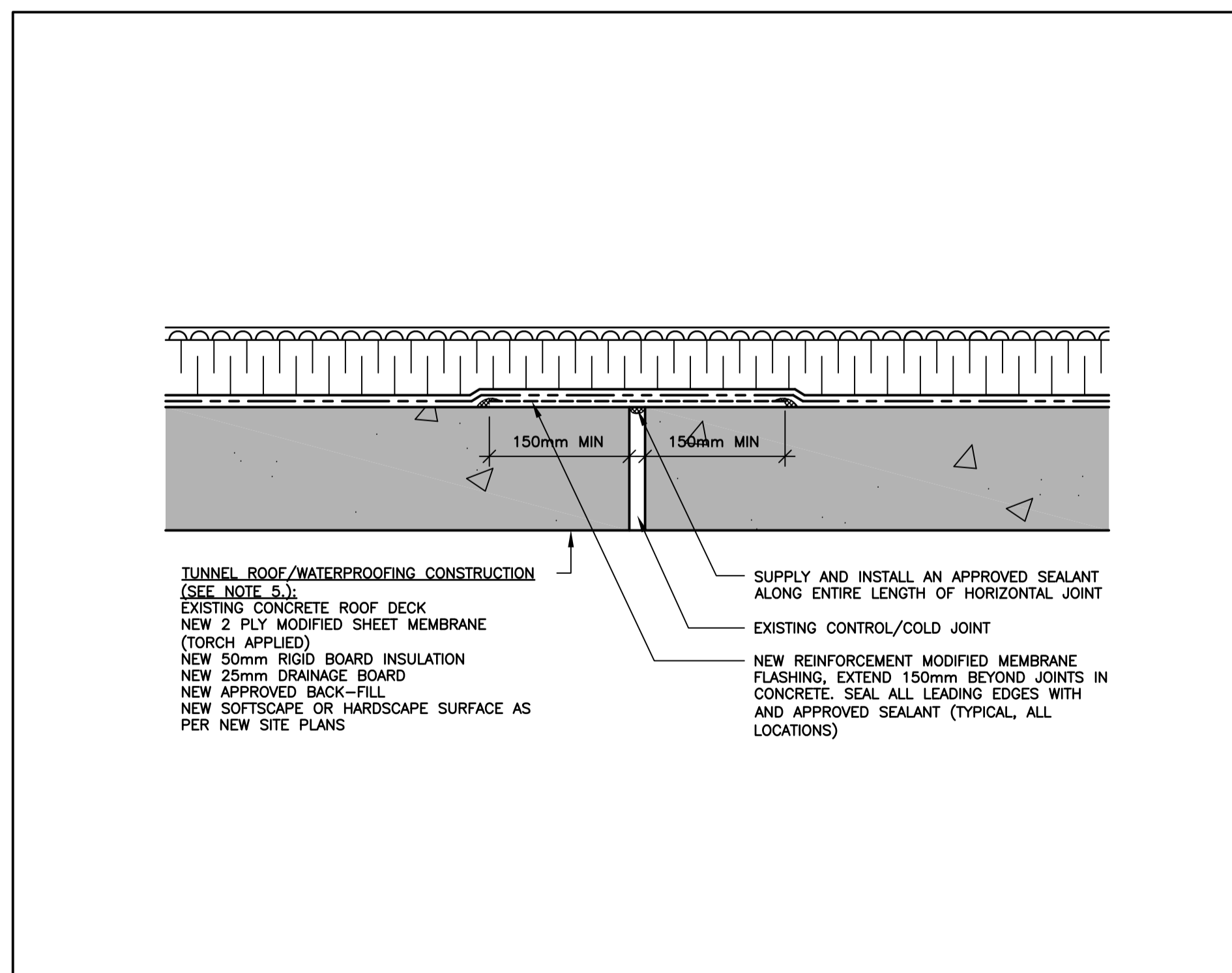
2
C-2.4



NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/WALL DETAIL

SCALE: 1:5

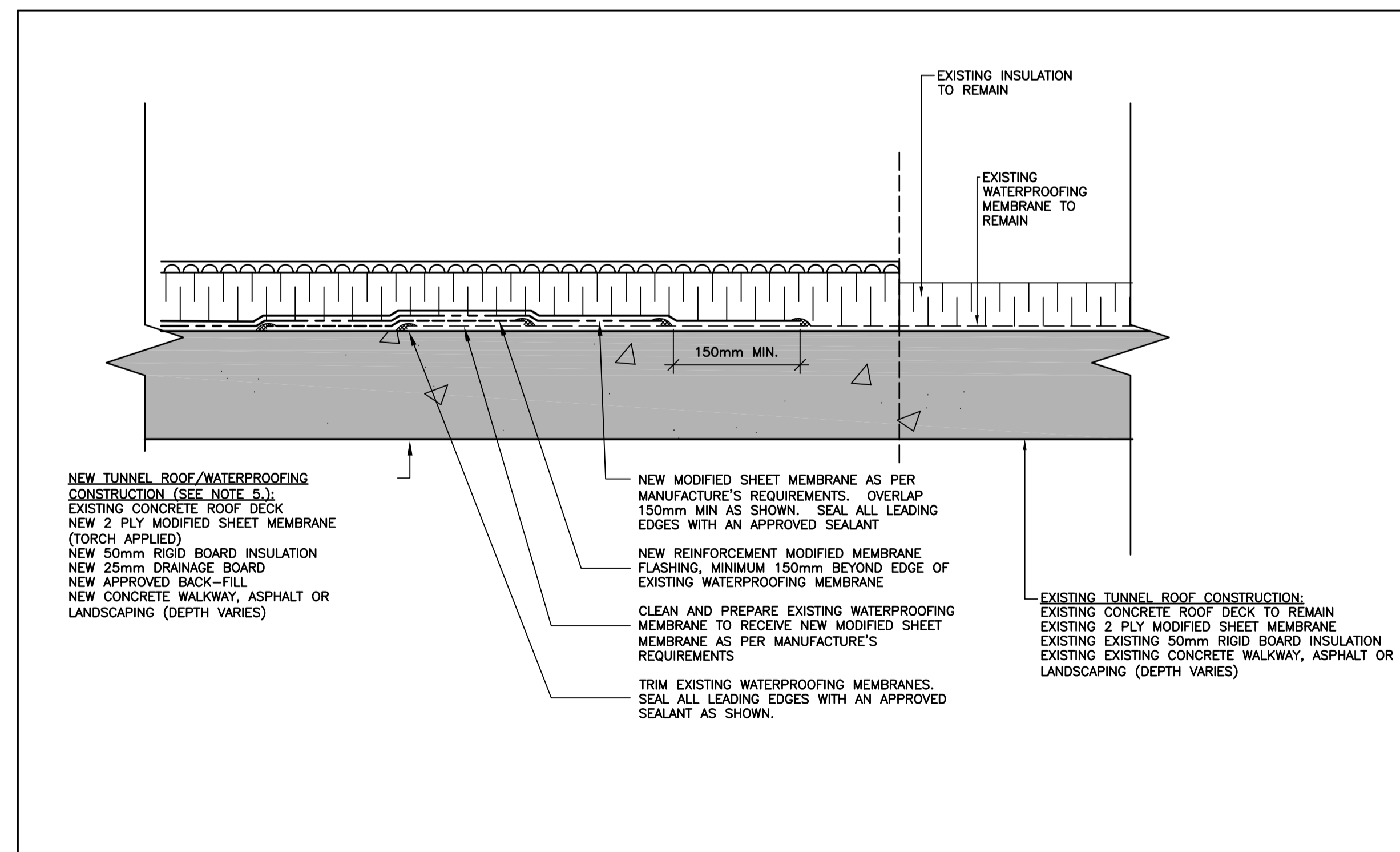
3
C-2.4



CONTROL/COLD JOINT DETAIL

SCALE: 1:5

4
C-2.4



NEW TO EXISTING WATERPROOFING MEMBRANE DETAIL

SCALE: 1:5

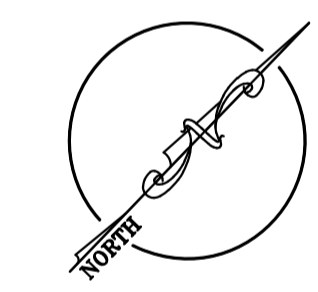
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C-2.4

A	A - DETAIL	A
B	B - LOCATION/DRAWING No.	B
C	C - DRAWING No.	C

No.	REVISION	DATE
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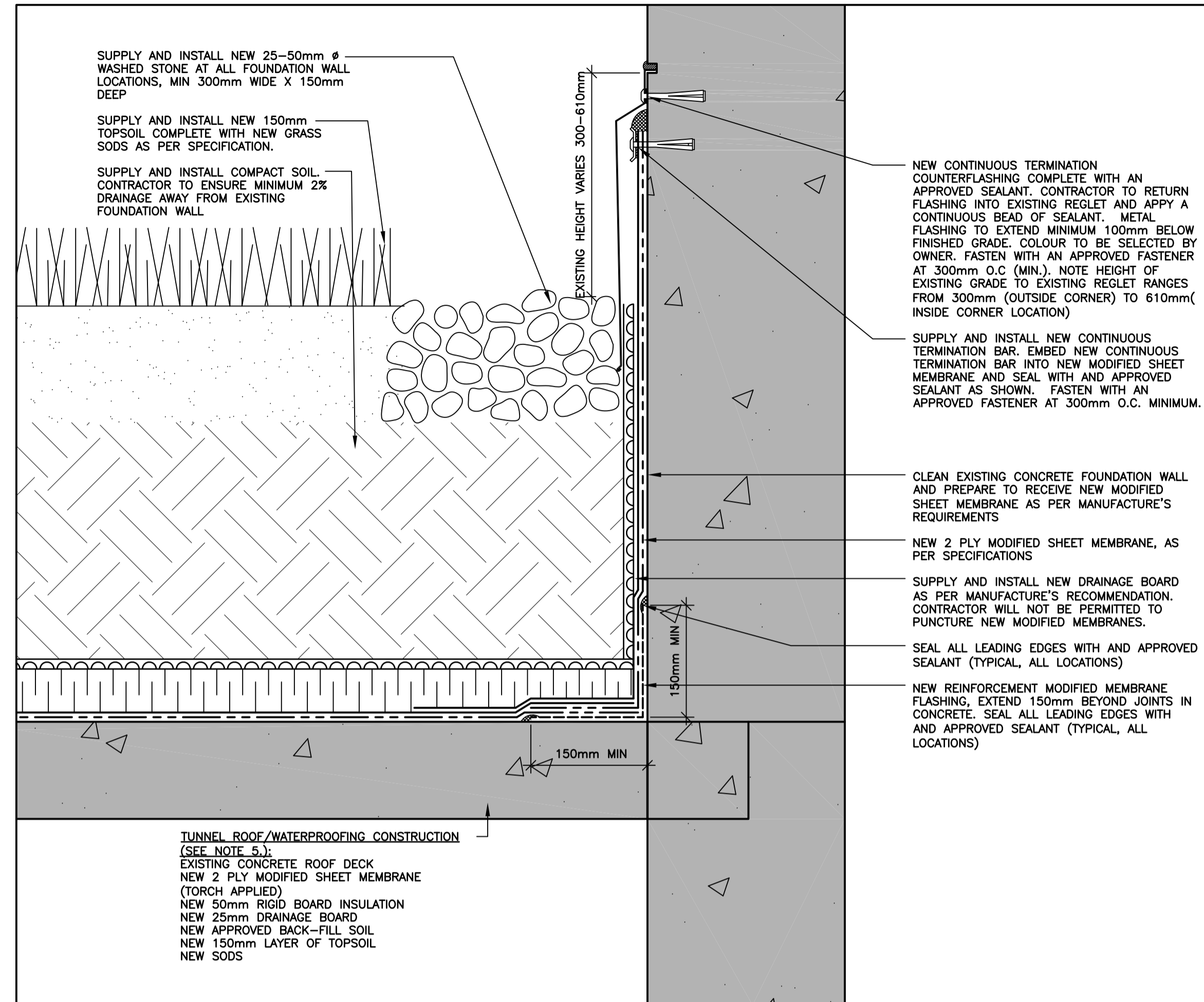
PROJECT NAME:

ACADEMIC TUNNELS
RE-WATERPROOFING CP-1
Project #: TA-511-25

DRAWING TITLE:

SECTIONS AND DETAILS

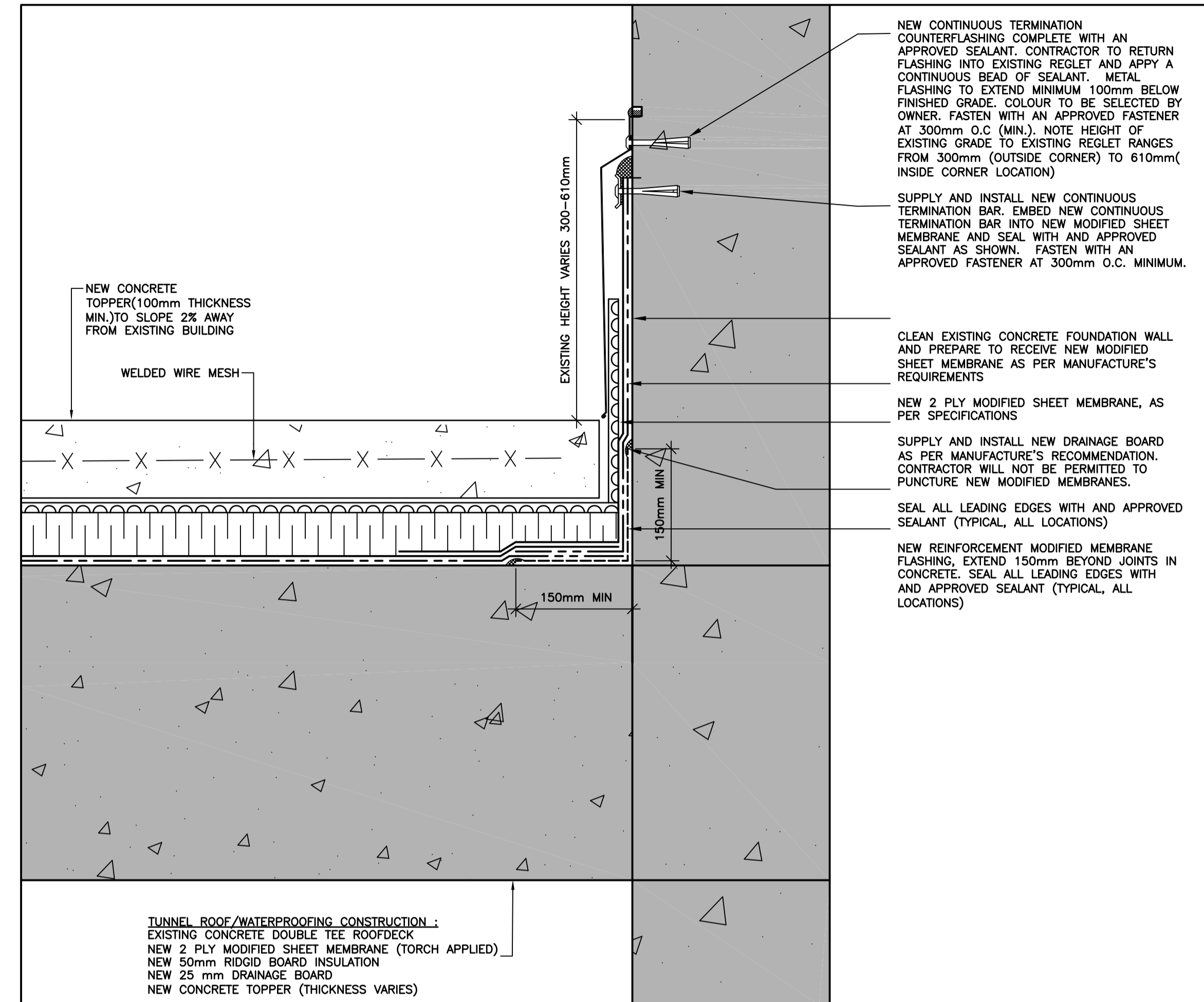
DESIGNED:	S.C	DRAWN:	S.C
REVIEWED:	J.A	APPROVED:	E.H
SCALE:	AS SHOWN	DATE:	APRIL, 2026
PROJECT No.	TA-511-25	DRAWING No.	C-2.4



NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/WALL INTERSECTION DETAIL

SCALE: 1:5

1
C-2.5



NEW WATERPROOFING MEMBRANE: TYPICAL ROOF/WALL INTERSECTION DETAIL

SCALE: 1:5

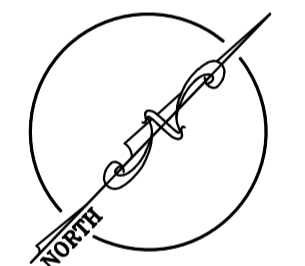
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C-2.5

A - DETAIL
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MEMORIAL UNIVERSITY
 FACILITIES MANAGEMENT

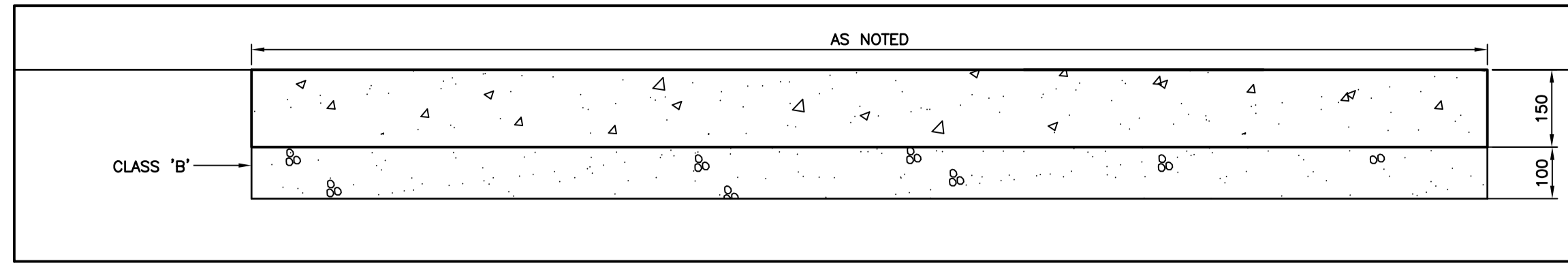
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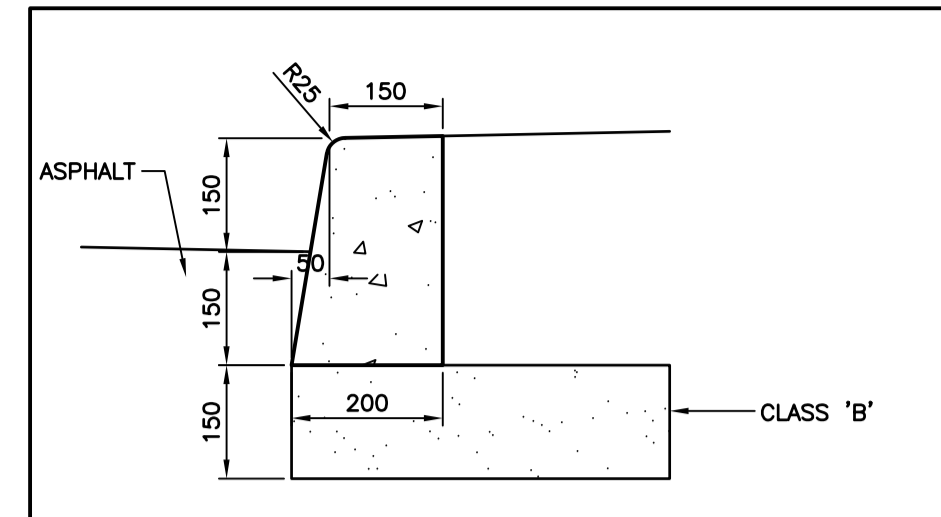
DRAWING TITLE:
 SECTIONS AND DETAILS

DESIGNED: S.C	DRAWN: S.C
REVIEWED: J.A	APPROVED: E.H
SCALE: AS SHOWN	DATE: APRIL, 2026
PROJECT No. TA-511-25	DRAWING No. C-2.5



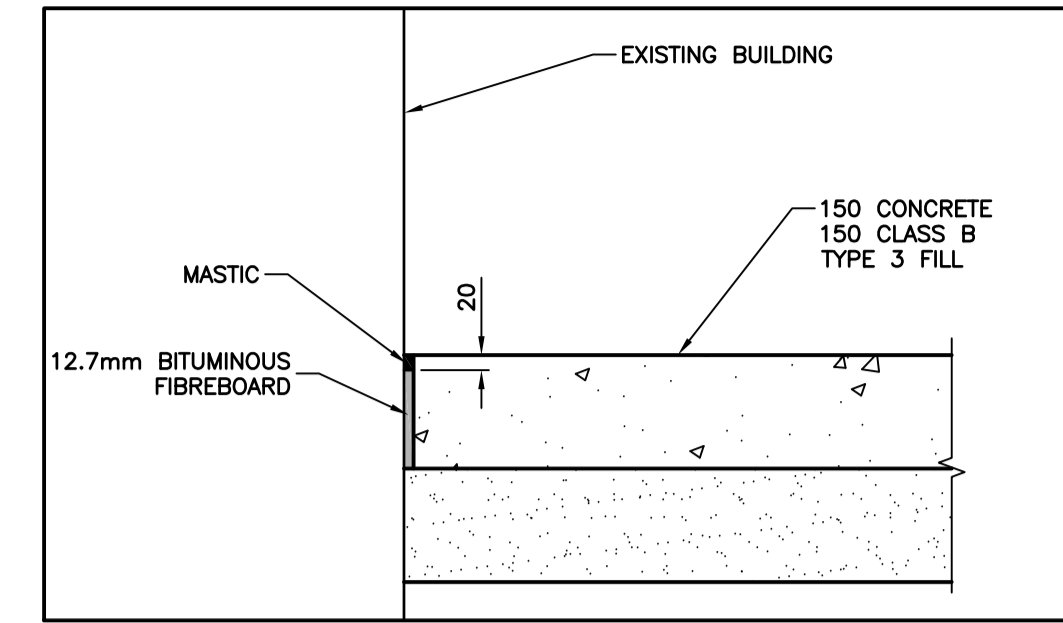
CONCRETE WALKWAY DETAIL
SCALE: 1:10

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C-2.6



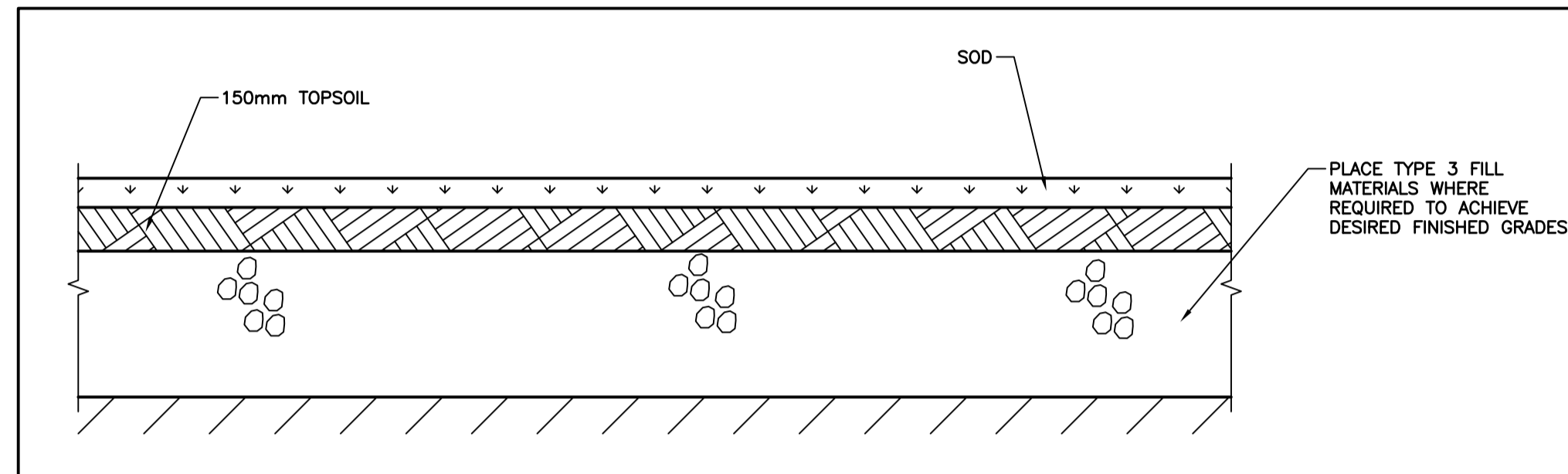
TYPICAL CURB DETAIL
SCALE: 1:10

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C-2.6



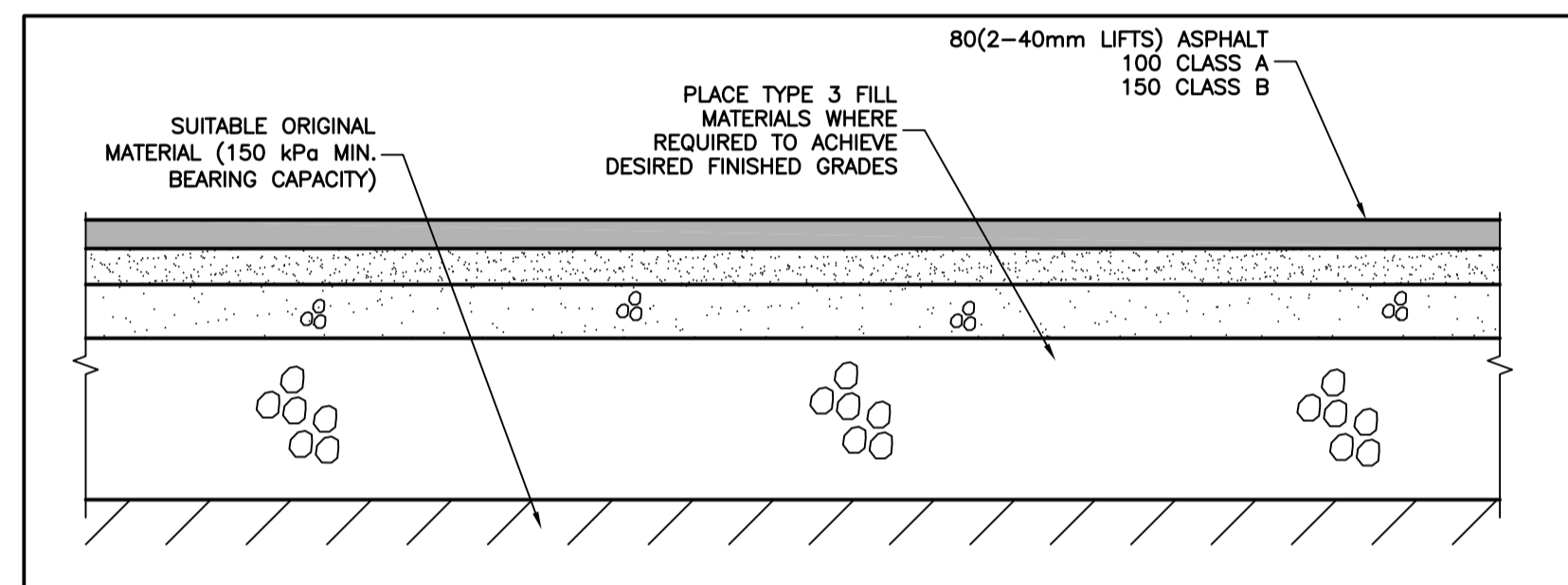
CONCRETE AT BUILDING DETAIL
SCALE: 1:10

3
C-2.6



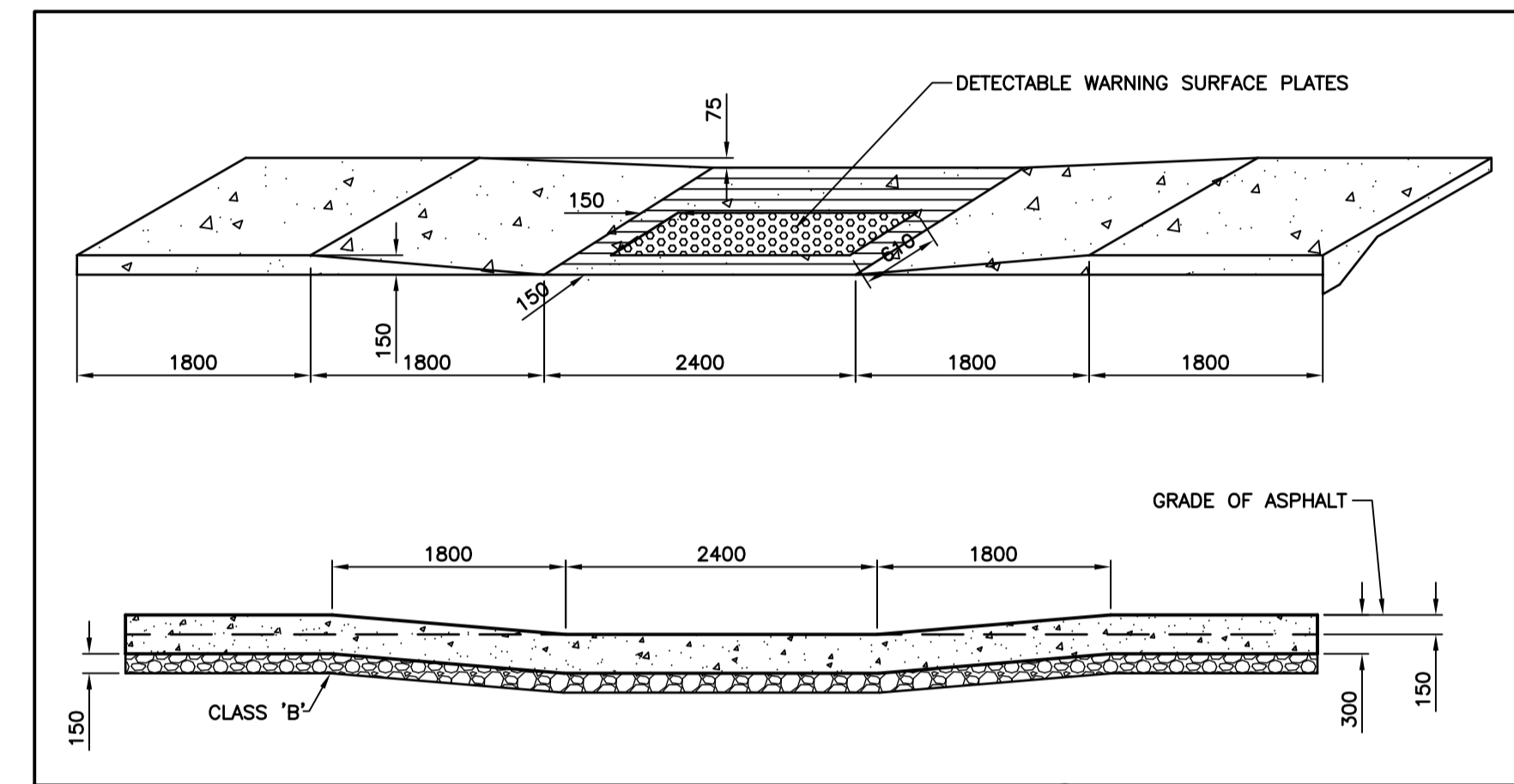
LANDSCAPING DETAIL
SCALE: 1:10

4
C-2.6



ASPHALT DETAIL
SCALE: 1:20

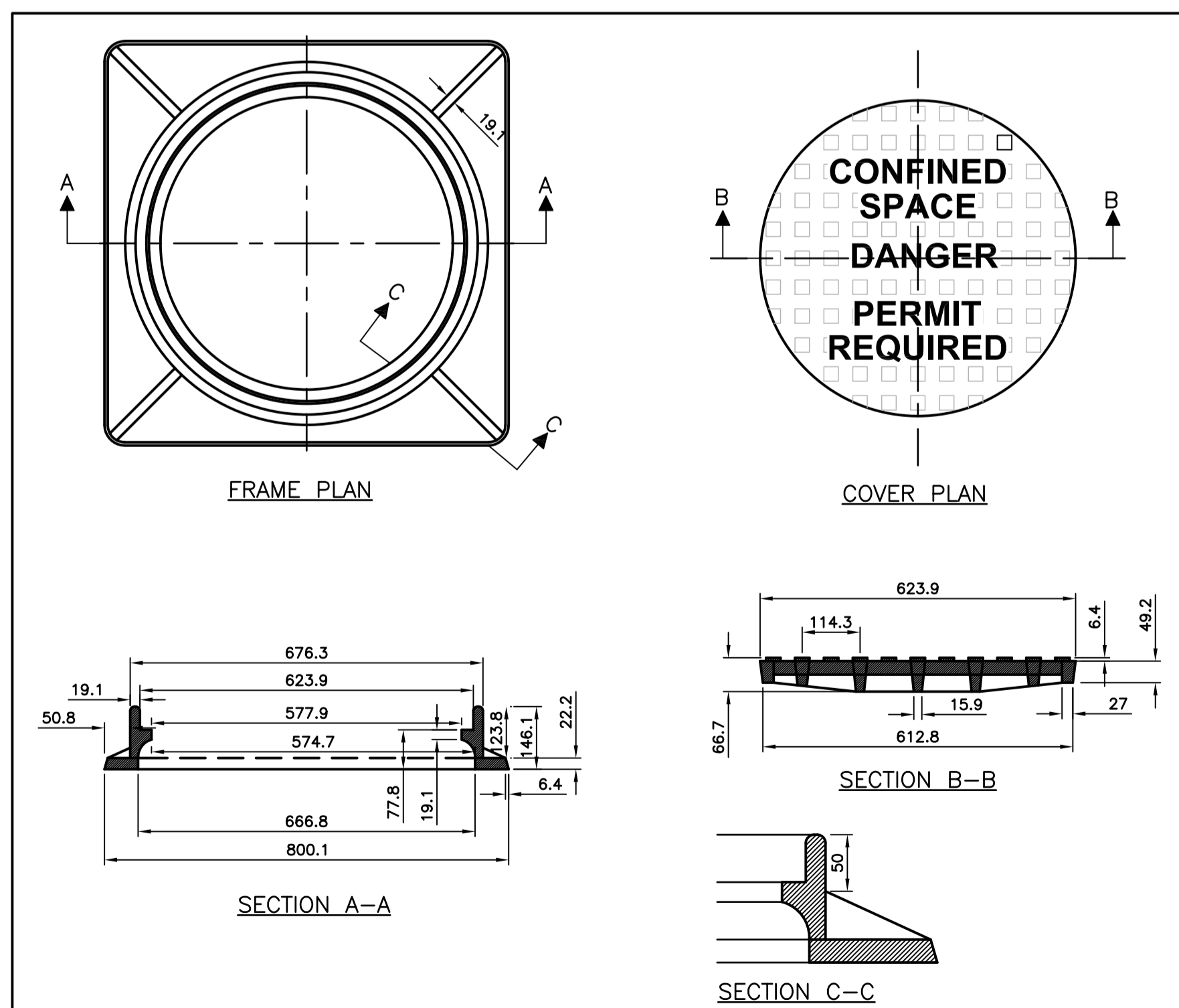
5
C-2.6



ACCESSIBILITY RAMP DETAIL
SCALE: 1:50

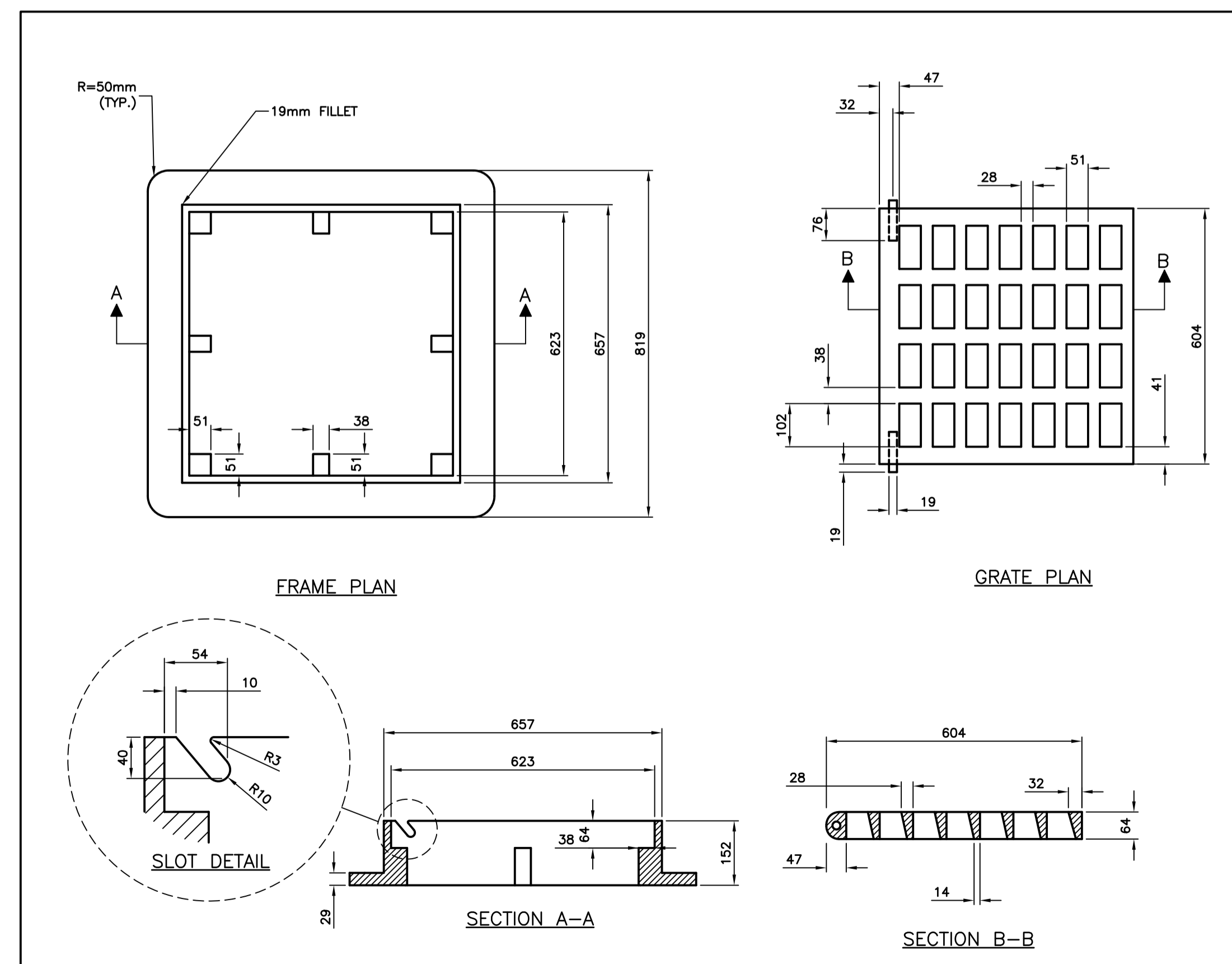
6
C-2.6

- WARNING SURFACE PLATE NOTES:
1. ALL TEXTURED SURFACES USED AS DETECTABLE WARNING SURFACES SHALL BE CLEARLY DETECTABLE BY WALKING UPON AS BEING DIFFERENT FROM THE SURROUNDING SURFACE.
 2. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, BEING EITHER LIGHT ON DARK OR DARK ON LIGHT.
 3. DETECTABLE WARNING SURFACES SHALL BE SLIP-RESISTANT.
 4. DETECTABLE WARNING SURFACES AT CURB RAMPS AND DEPRESSED CURBS SHALL BE COMPOSED OF FLAT-TOPPED DOMES OR CONES THAT ARE 4-5 mm HIGH.
 5. IF A WALKWAY CROSSES OR JOINS A VEHICULAR WAY AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS, THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING SURFACE, FLAT-TOPPED DOMES OR CONES WHICH IS MINIMUM 920mm WIDE.
 6. ALL TRUNCATED DOME DETECTABLE WARNING PLATE DESIGNS ARE TO BE FINALIZED BY THE MANUFACTURE, "BIBBY-STÉ-CROIX" OR EQUIVALENT (610mmx610mm SQ.)
 7. COLOR OF TRUNCATED DOME PLATES TO BE NATURAL PATINA.



MANHOLE FRAME AND COVER DETAIL
SCALE: 1:10

7
C-2.6



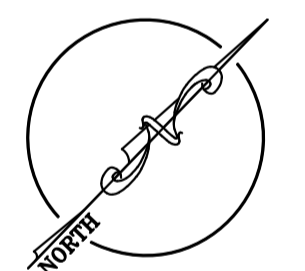
CATCH BASIN FRAME AND COVER DETAIL
SCALE: 1:10

8
C-2.6

No.	REVISION	DATE
R2	ISSUED FOR ADDENDUM#1	APR, 2026
R1	ISSUED FOR TENDER	APR, 2026
R0	ISSUED FOR REVIEW	MAR, 2026

GENERAL NOTES

1. DO NOT SCALE FROM DRAWINGS.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO SUBMISSION OF TENDERS.
4. ALL DEFICIENCIES FOUND IN THIS DRAWING IS TO BE BROUGHT TO THE ATTENTION OF THE FACILITIES ENGINEERING AND DEVELOPMENT OFFICE OF THE DEPARTMENT OF FACILITIES MANAGEMENT, MEMORIAL UNIVERSITY OF NEWFOUNDLAND, PRIOR TO THE SUBMISSION OF THE TENDERS.



This University was raised by the people of Newfoundland as a memorial to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.

Dedication plaque, Arts & Administration Building, St. John's Campus

PROJECT NAME:

**ACADEMIC TUNNEL
RE-WATERPROOFING CP-1
Project #: TA-511-25**

DRAWING TITLE:

SECTIONS AND DETAILS

DESIGNED:	S.C	DRAWN:	S.C
REVIEWED:	E.H	APPROVED:	E.H
SCALE:	AS SHOWN	DATE:	APR, 2026
PROJECT No.	TA-511-25	DRAWING No.	C-2.6