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Government Services
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Engineering Services

Ontario Region

Travaux publics
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Canada

Services d'architecture
et de génie

Région de l'Ontario

Parry Sound Ontario

CANADIAN COAST GUARD BASE
DEPARTMENT OF FISHERIES AND OCEANS

WALL CRACK REPAIRS
28 WAUBEEK ST., PARRY SOUND, ON.

R.100473.001

ISSUED FOR TENDER
2018-12-03

Canada

LIST OF DRAWINGS

ARCHITECTURAL

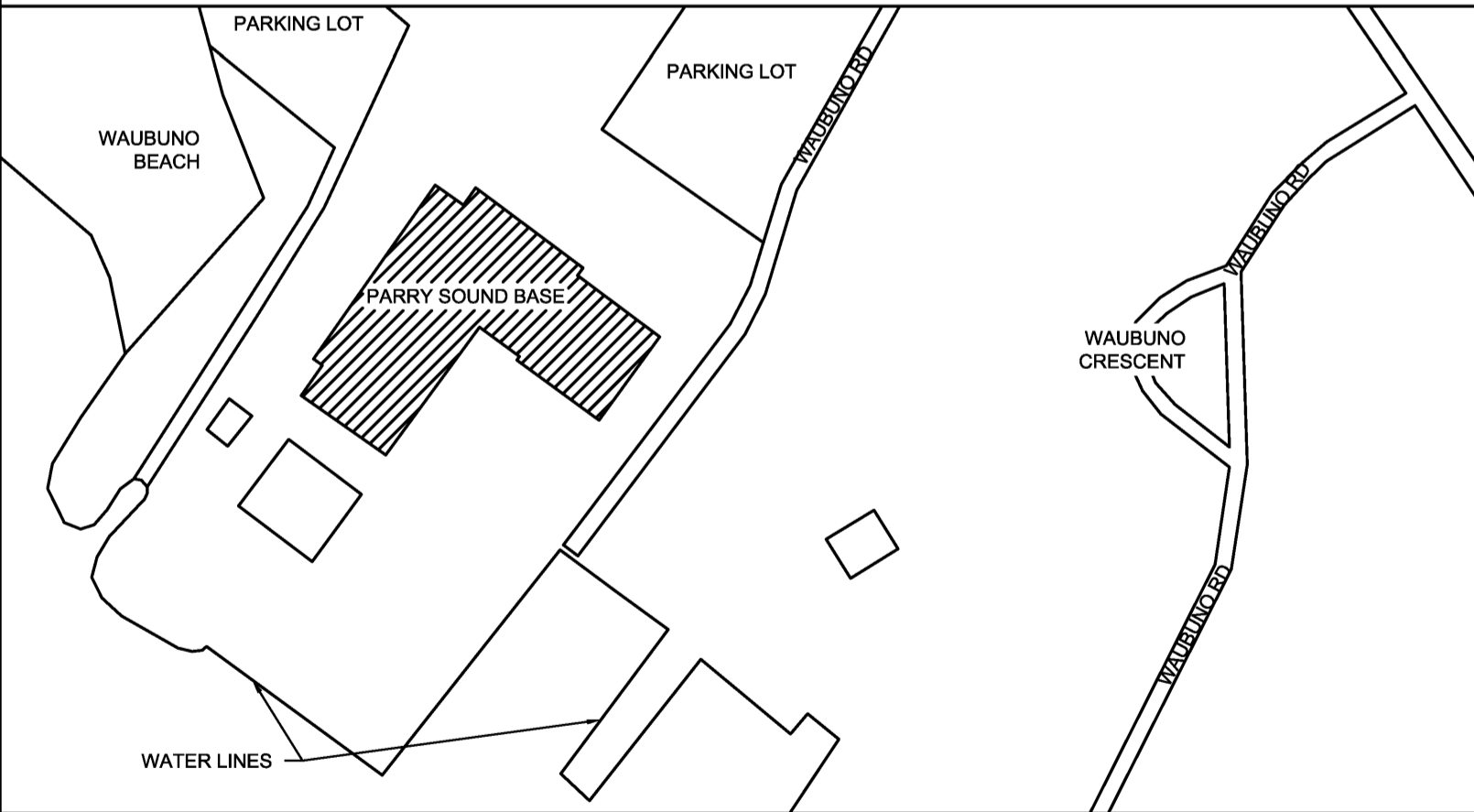
ELECTRICAL

MECHANICAL

STRUCTURAL

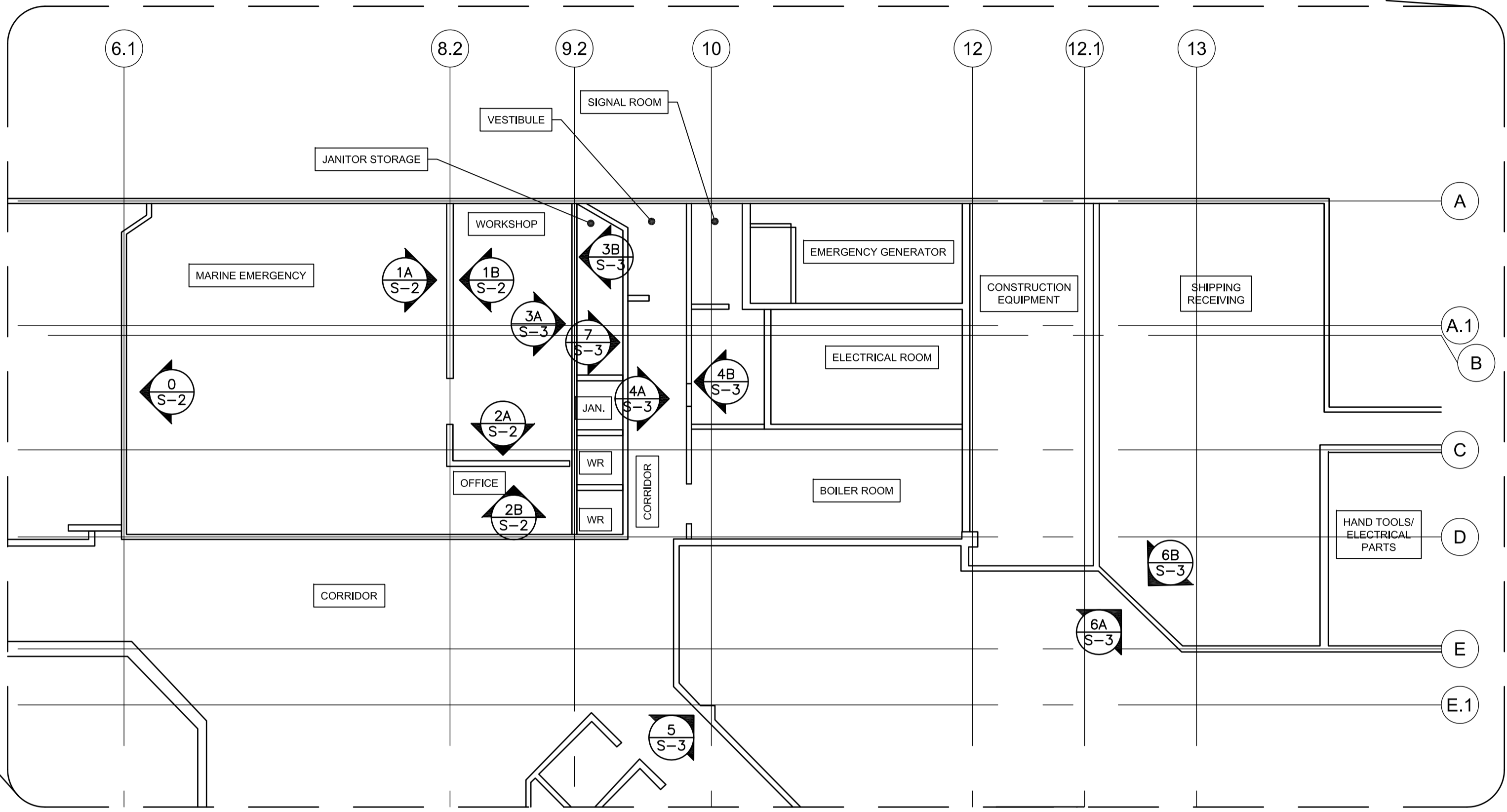
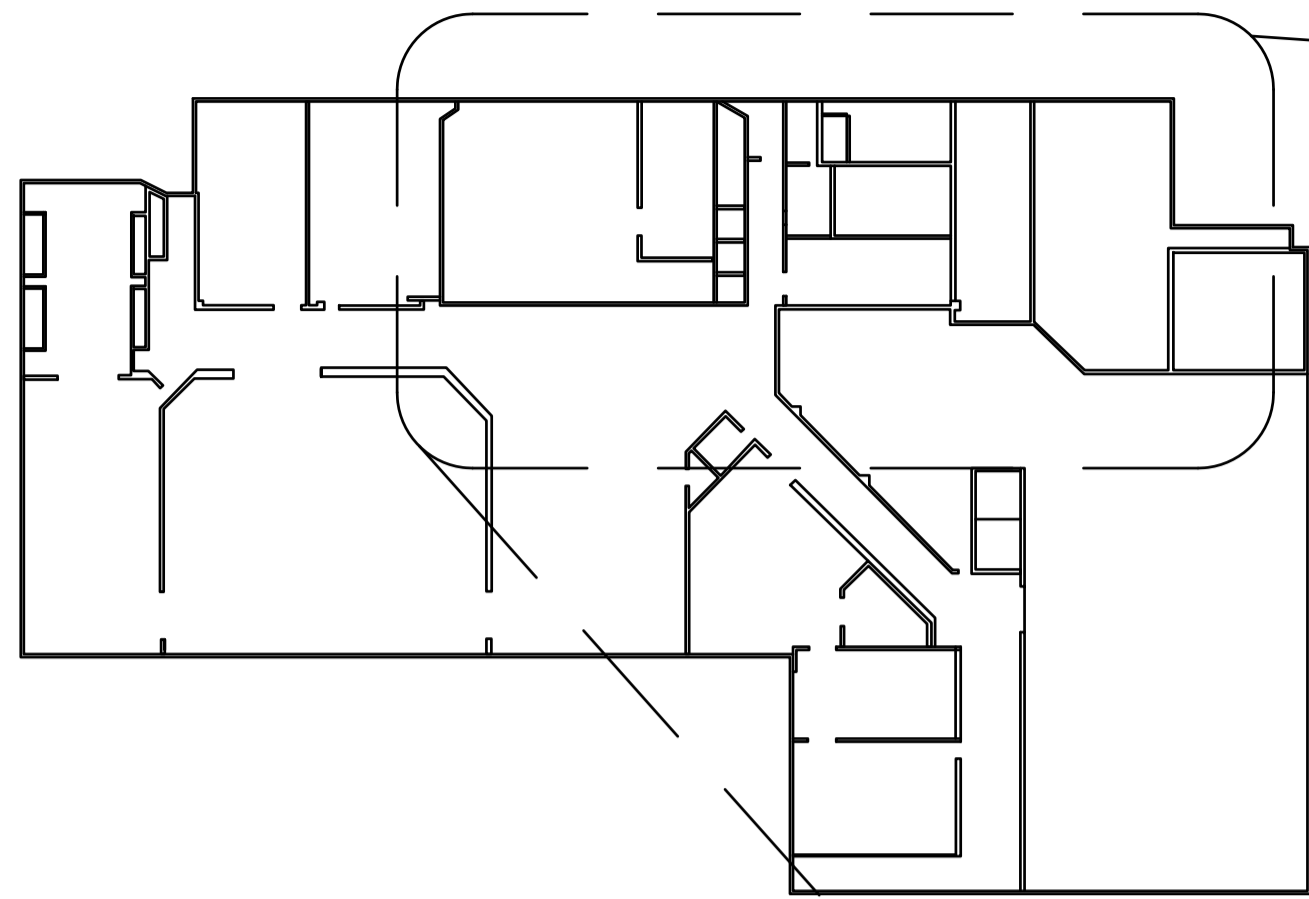
- S-1 KEY PLAN AND GENERAL NOTES
- S-2 ELEVATIONS PART-1
- S-3 ELEVATIONS PART-2
- S-4 TYPICAL DETAILS

SITE



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1 KEY PLAN
S-1 SCALE: 1:500

1. GENERAL NOTES

- 1.1. DESIGN HAS BEEN COMPLETED IN ACCORDANCE WITH THE 2015 NBCC.
- 1.2. CHECK DIMENSIONS ON STRUCTURAL DRAWINGS WITH SITE MEASUREMENTS. REPORT ANY INCONSISTENCIES TO DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- 1.3. ALL WORK SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ONTARIO HEALTH AND SAFETY ACT AND MUST FOLLOW THE BEST TRADE PRACTICES.
- 1.4. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY WORKS AND SCAFFOLDING NECESSARY TO COMPLETE THE SCOPE OF WORK IDENTIFIED.
- 1.5. DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 1.6. ELEVATIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 1.7. RAKE OUT AND REMOVE ALL LOOSE AND DETERIORATED MORTAR TO THE EXTENT NOTED ON THE DRAWINGS.
- 1.8. RAKED OUT SURFACES SHALL BE EVEN AND SQUARE.
- 1.9. REPOINT AS NOTED ON THE DRAWINGS.
- 1.10. REPAIR/REPLACE AREAS OF EXISTING BLOCK AS NOTED ON DRAWINGS.
- 1.11. ENTIRETY OF EACH WALL AFFECTED BY CONSTRUCTION SHALL BE REPAINTED TO MATCH EXISTING COLOUR.
- 1.12. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY LATERAL SUPPORT TO ALL BLOCK WALLS DURING CONSTRUCTION. SUBMIT SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO TO DEPARTMENTAL REPRESENTATIVE.

3. DESIGN

- 3.1. SEISMIC DESIGN PARAMETERS:
 - 3.1.1. $V_p = 1.2 \text{ kN/m}$ OF WALL LENGTH
- 3.2. WIND PRESSURE PARAMETERS:
 - 3.2.1. $V_w = 3.92 \text{ kN/m}$ OF WALL LENGTH (FACTORED)

4. STRUCTURAL STEEL

- 4.1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-S-16 AND THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL.
- 4.2. ALL EXPOSED WELDS TO BE CONTINUOUS.
- 4.3. STEEL PLATES SHALL BE CSA G40.20/21 300W.
- 4.4. CLEAN, PREPARE AND COAT ALL STRUCTURAL STEEL AFFECTED BY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PAINTING SPECIFICATIONS. DO NOT PRIME ANCHOR BOLTS OR SURFACES IN CONTACT WITH CONCRETE. WIRE BRUSH AND PAINT ALL EXISTING STEEL COMPONENTS TO REMAIN.
- 4.5. TOUCH-UP FIELD WELDS, CONNECTIONS AND ABRASIONS TO MATCH THE SHOP PRIMER.
- 4.6. ALL WELDING SHALL BE IN ACCORDANCE WITH CSA W59 BY A CERTIFIED PROFESSIONAL.

5. MASONRY

- 5.1. ALL CONCRETE BLOCK WALLS SHALL BE CONSTRUCTED WITH MINIMUM REINFORCEMENT CONSISTING OF 1-15M VERTICAL BAR AT 1000 MM C/C, LADDER TYPE HORIZONTAL REINFORCEMENT EVERY OTHER ROW (MIN. 3.66mm \emptyset). LAP LENGTH FOR VERTICAL BARS SHALL BE MIN. 1500mm.
- 5.2. ALL BARS SHALL BE DOWELED INTO SLAB AT BOTTOM OF WALL WITH 1500mm LONG DOWELS AND 100mm EMBEDMENT INTO SLAB. DOWEL SHALL BE FASTENED TO SLAB USING POST-INSTALLED EPOXY SYSTEM FOR A FACTORED SHEAR FORCE OF 2kN PER BAR. SUBMIT PRODUCT DATA FOR EPOXY SYSTEM FOR APPROVAL BY DEPARTMENTAL REPRESENTATIVE.
- 5.3. SLAB MUST BE SCANNED TO IDENTIFY EXISTING REBAR AND SERVICES PRIOR TO ANY DRILLING ACTIVITIES.
- 5.4. MORTAR
- 5.5. MORTAR FOR REPOINTING AND CRACK REPAIR SHALL MATCH ORIGINAL MORTAR IN STRENGTH, COLOR AND COMPOSITION. CONTRACTOR SHALL COORDINATE AND CARRY OUT TESTING OF EXISTING MORTAR TO CONFIRM EXISTING MATERIAL PROPERTIES. TEST RESULTS SHALL BE SUBMITTED TO DEPARTMENTAL REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. TESTING SHALL BE PAID FOR BY THE CONTRACTOR.
 - 5.5.1. MEETS CSA A179-14 REQUIREMENTS.
 - 5.5.2. COLOUR TO MATCH EXISTING.
 - 5.5.3. COMPRESSIVE STRENGTH (28 DAYS) FOR NEW CONSTRUCTION SHALL BE 13 MPa.
 - 5.5.4. MORTAR TYPE : S
- 5.6. CONCRETE MASONRY UNITS
 - 5.6.1. MEETS CSA A165 STANDARDS
 - 5.6.2. UNIT STRENGTH (NET AREA) : 20 MPa
- 5.7. GROUT
 - 5.7.1. MEETS A179-14 REQUIREMENTS.
 - 5.7.2. MINIMUM COMPRESSIVE STRENGTH : 10 MPa AT 28 DAYS

6. REPOINTING METHODOLOGY

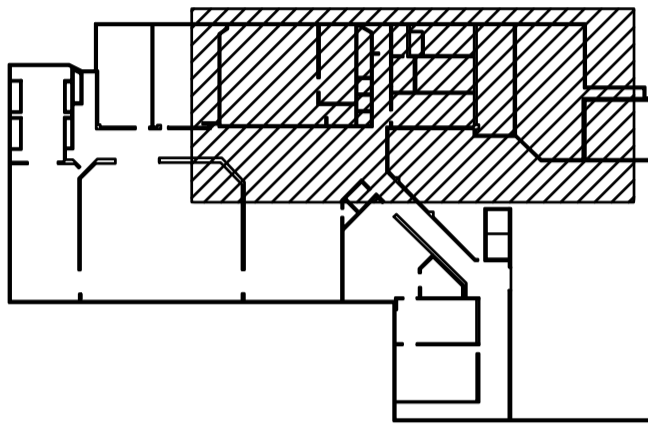
- 6.1. OLD MORTAR JOINTS TO BE RAKED OUT TO A MINIMUM DEPTH OF 2 TIMES THE WIDTH OF THE JOINT OR TO SOUND MATERIAL AS DETERMINED BY DEPARTMENTAL REPRESENTATIVE.
- 6.2. JOINTS ARE TO BE RAKED BY MANUAL METHODS. NO SAW CUTTING IS PERMITTED UNLESS ALLOWED BY DEPARTMENTAL REPRESENTATIVE.
- 6.3. LOOSE MATERIAL FURTHER INSIDE THE JOINT MUST BE REMOVED AND CLEANED OUT.
- 6.4. AVOID DAMAGING EDGES OF BLOCK UNITS.
- 6.5. WET THE JOINTS IN ADVANCE OF REPOINTING.
- 6.6. BACK POINTING SHALL BE UP TO 30mm FROM THE FACE. DO NOT SMEAR MORTAR ONTO EXISTING MASONRY UNITS.
- 6.7. MORTAR MUST NOT EXTEND ONTO THE SURFACE OF BLOCK UNITS.
- 6.8. MOIST CURE FRESHLY POINTED JOINTS BY SPRAYING WATER AT INTERVALS AND COVERING WITH MOIST BURLAP AND/OR POLYETHYLENE SHEETING FOR A MINIMUM OF 7 DAYS AFTER REPOINTING. KEEP WALL AND BURLAP MISTED.
- 6.9. USE NATURAL BRISTLE OR NYLON BRUSHES TO REMOVE SMALL PIECES OF MORTAR AT THE EDGE OF THE REPOINTED JOINT AFTER THE MORTAR HAS BECOME THUMB PRINT HARD.

7. FIREPROOFING

- 7.1. ALL PENETRATIONS THROUGH FIRE-RATED WALLS SHALL BE SEALED WITH APPROPRIATE MATERIAL SO AS TO ACHIEVE A 2 HOUR FIRE RATING. LOCATIONS INDICATED ON DRAWINGS.

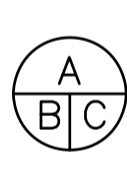


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revision	description	date
3	ISSUED FOR TENDER	2018-12-03
2	ISSUED FOR 99% REVIEW	2018-11-16
1	ISSUED FOR 66% REVIEW	2018-10-26

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

	A Detail No. No. du détail
B	drawing no. - where detail required dessin no. - où détail exigé
C	drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
PARRY SOUND Ontario
Canadian Coast Guard Base
28 Waubek Street

WALL CRACK REPAIRS

drawing title
titre du dessin

KEY PLAN AND
GENERAL NOTES

drawn by
dessiné par
Claudia Bonneau

designed by
conc par
Josiah Fogarty

approved by
approuvé par
Christoph von Teichman

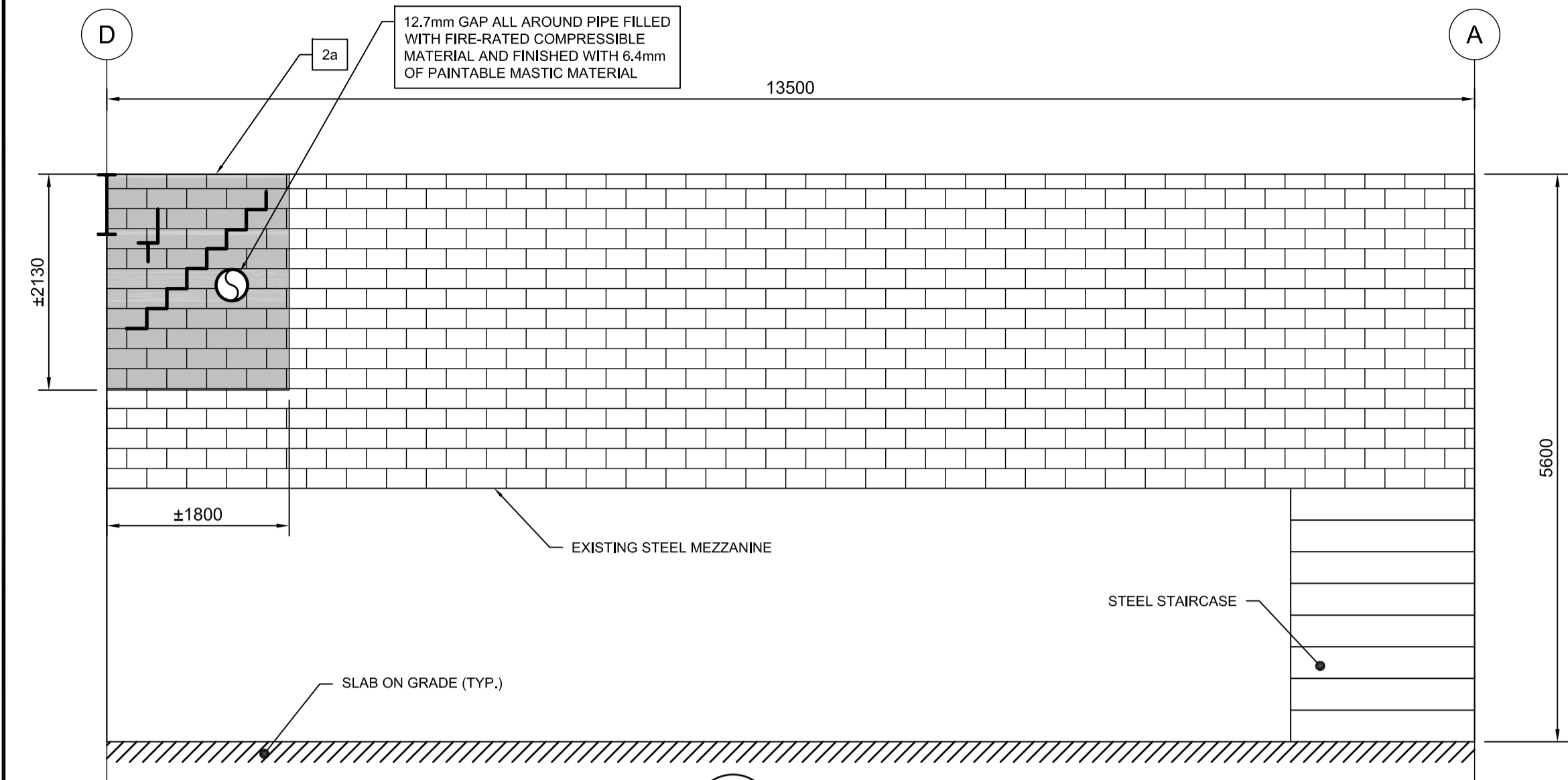
tender
soumission
NANG QACH project manager
administrateur de projets

project date
date du projet
2018-12-03

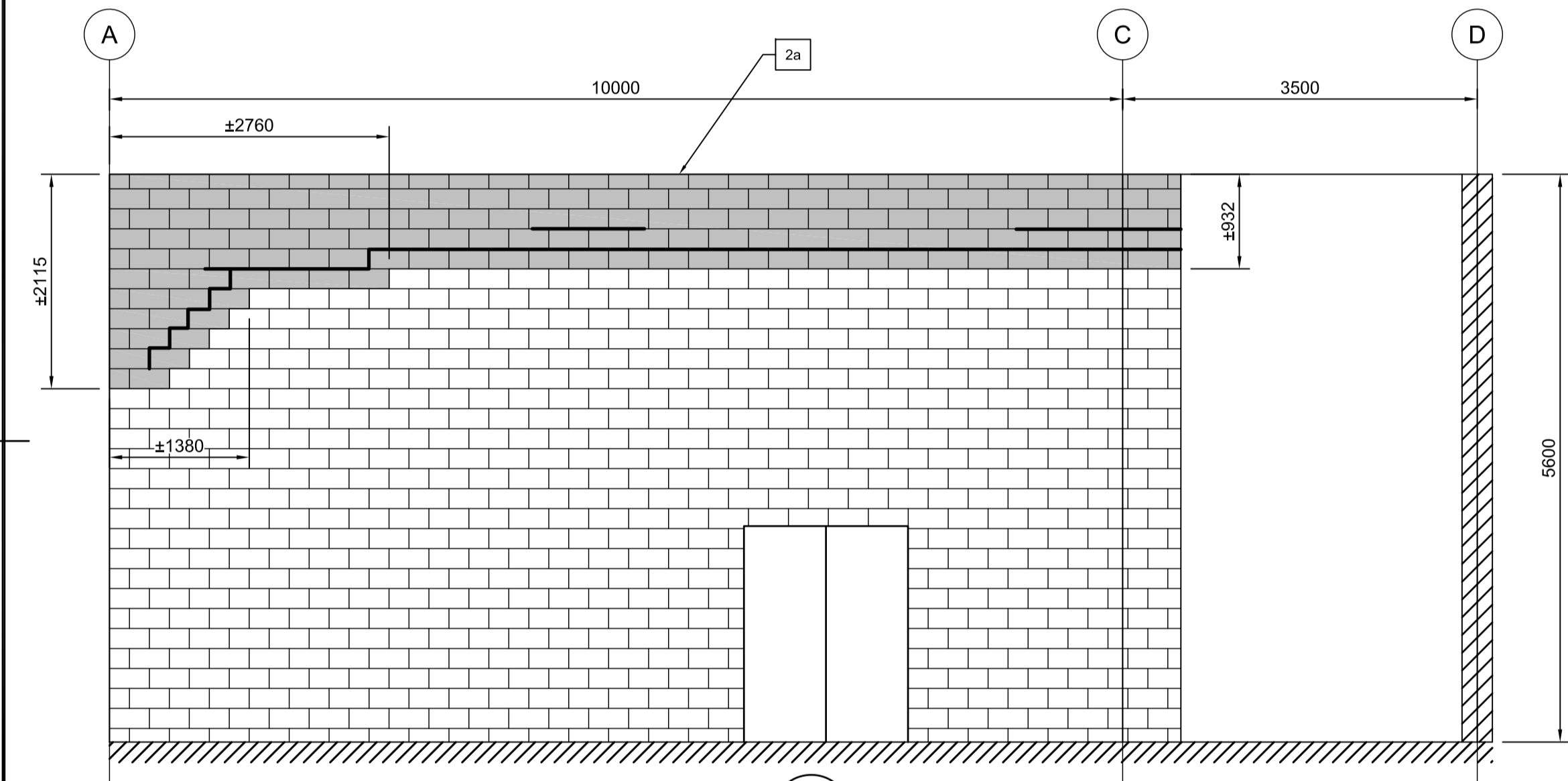
project no.
no. du projet
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drawing no.
dessiné no.
S-1

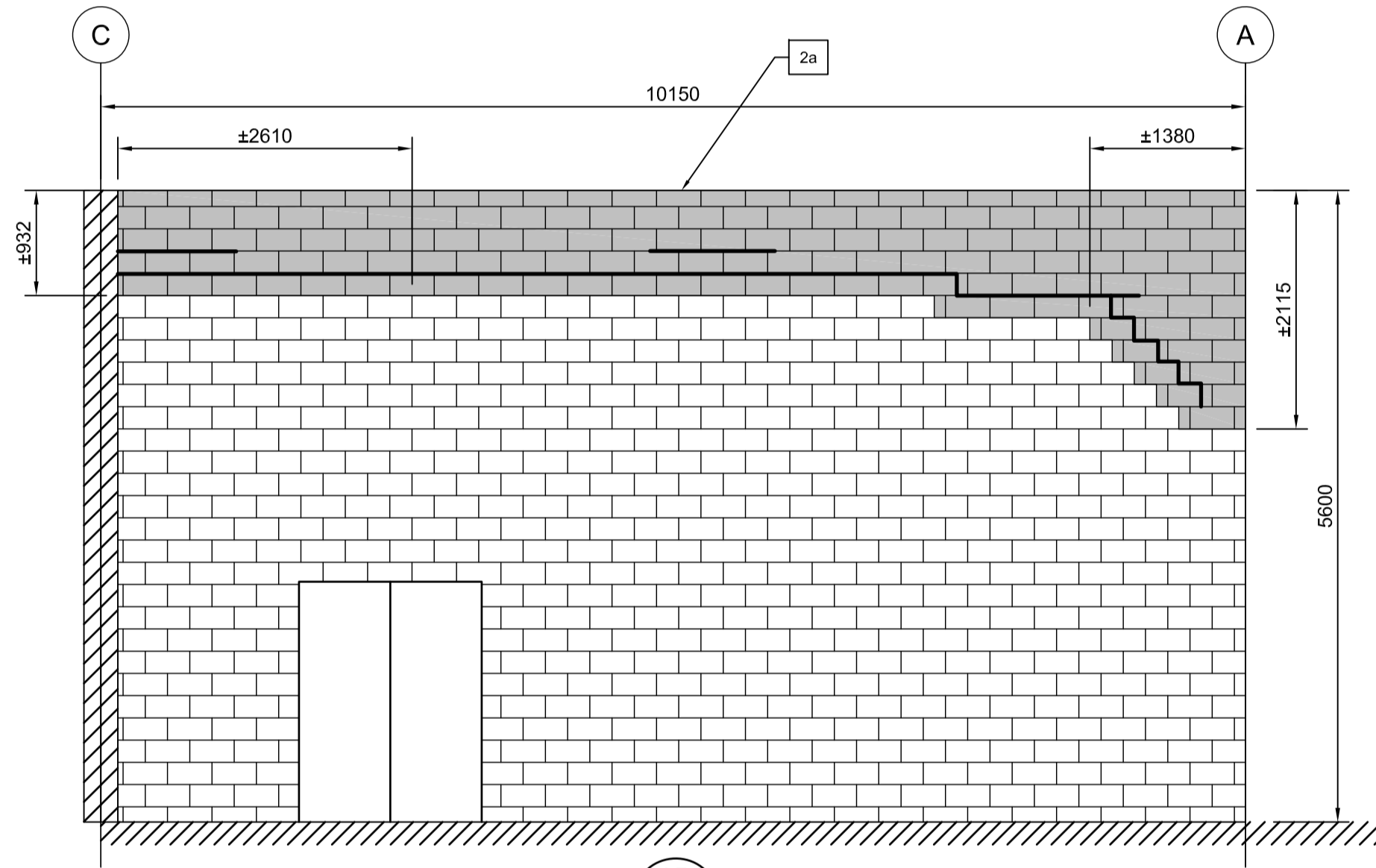




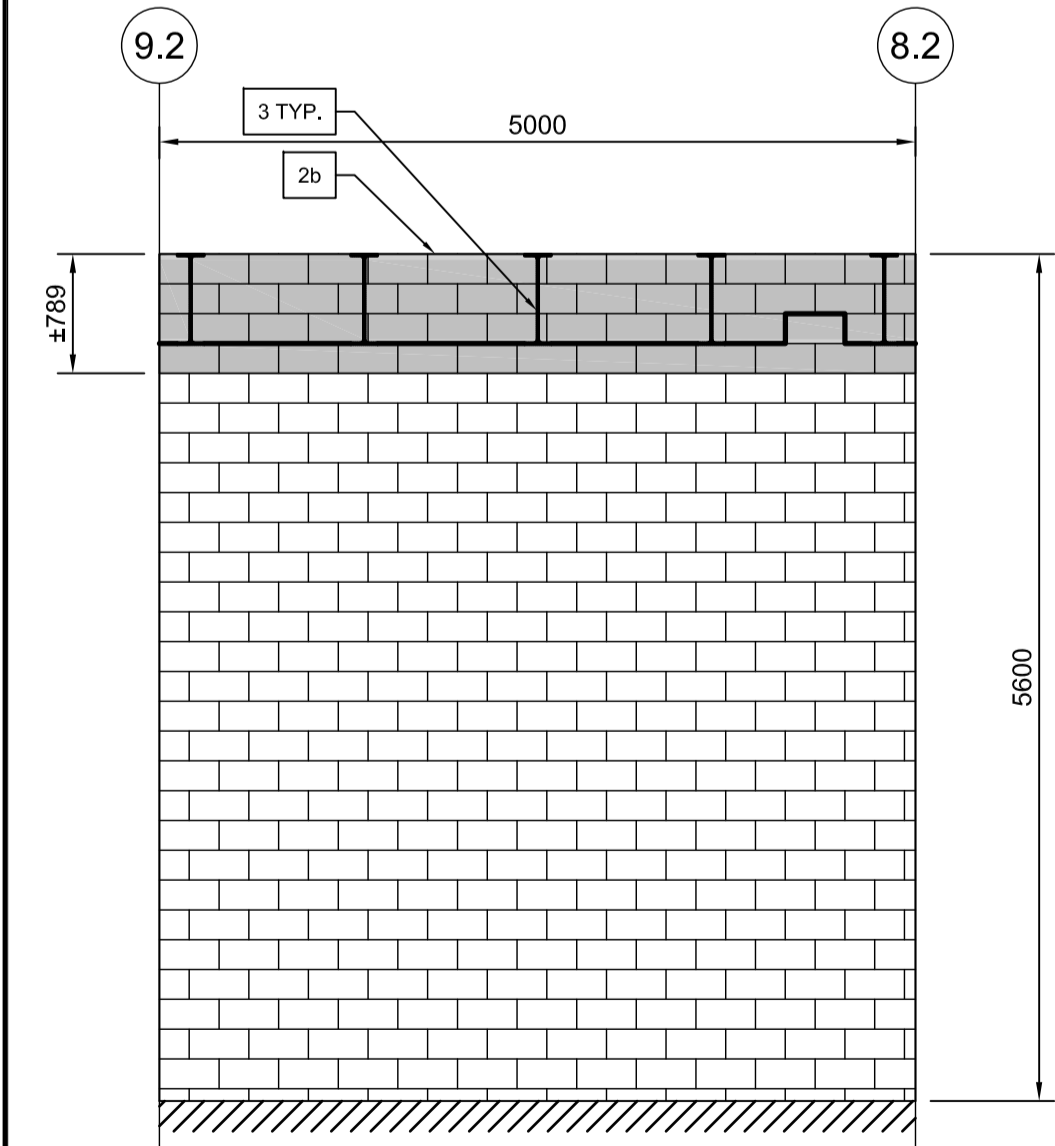
0 WALL 0
S-1 SCALE: 1:50



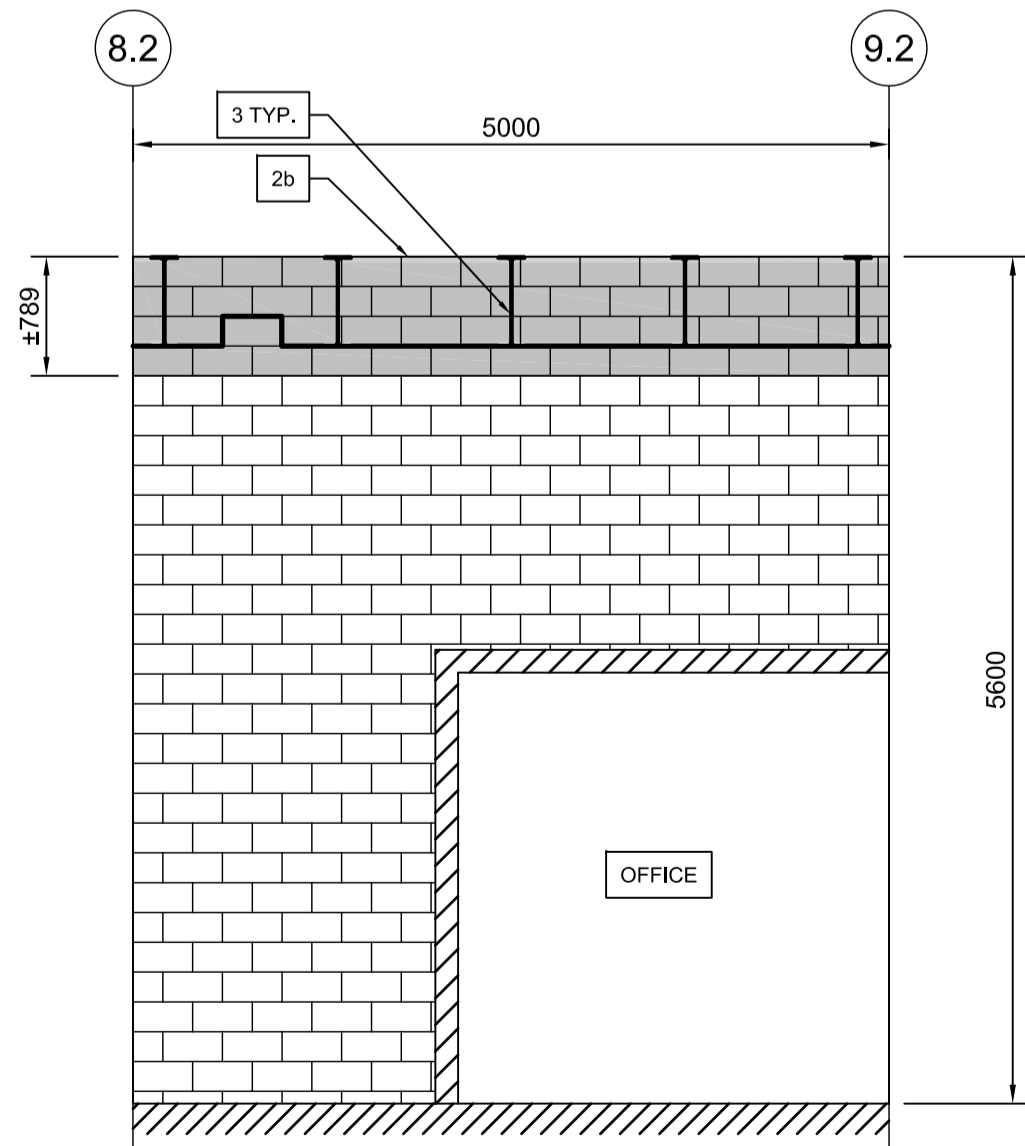
1A WALL 1A
S-1 SCALE: 1:50



1B WALL 1B
S-1 SCALE: 1:50



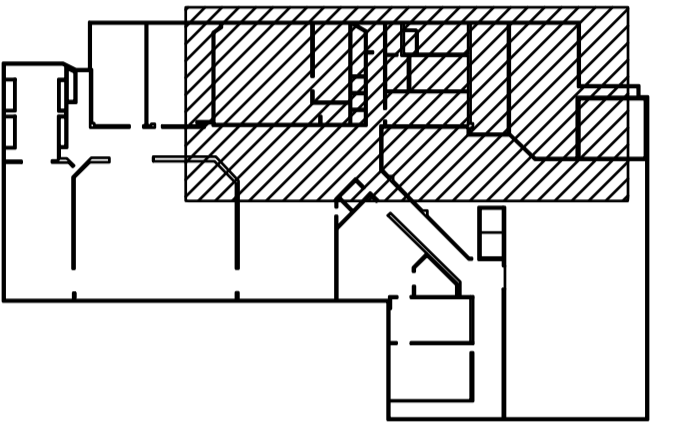
2A WALL 2A
S-1 SCALE: 1:50



2B WALL 2B
S-1 SCALE: 1:50



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- 1 REPOINT FULL EXTENT OF CRACK
- 2a LATERALLY SUPPORT REBUILT WALL SECTION AS PER TYPICAL DETAILS - JOIST PARALLEL TO WALL
- 2b LATERALLY SUPPORT REBUILT WALL SECTION AS PER TYPICAL DETAILS - JOIST PERPENDICULAR TO WALL
- 3 REINSTATE BLOCK SURROUNDING JOISTS AS PER TYPICAL DETAILS
- 4 VERTICAL CRACKS AT WALL JOINT TO BE REPOINTED
- 5 PROVIDE STEEL LINTEL AS PER TYPICAL DETAILS
- 6 LOCALLY DEMOLISH AND REPLACE 100% OF MASONRY IN THIS AREA
- 7 EXISTING CRACK IN MASONRY WALL

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dessin no. - où détaillé

project title
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PARRY SOUND Ontario
Canadian Coast Guard Base
28 Waubeek Street

WALL CRACK REPAIRS

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titre du dessin
ELEVATIONS-PART 1

drawn by
dessine par
Claudia Bonneau

designed by
conc par
Josiah Fogarty

approved by
approuve par
Christoph von Teichman

tender
soumission
NANG QACH

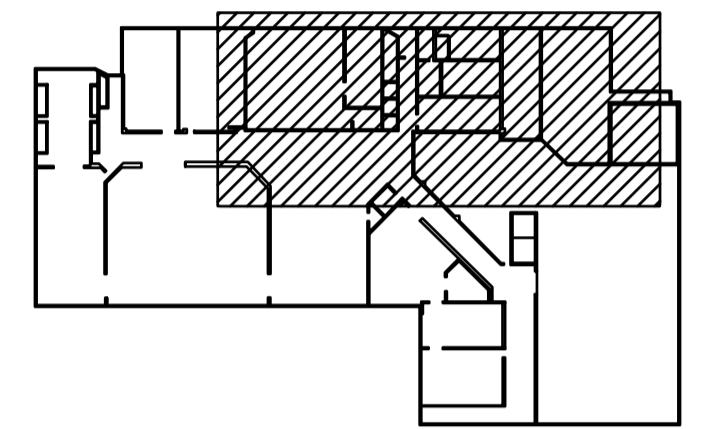
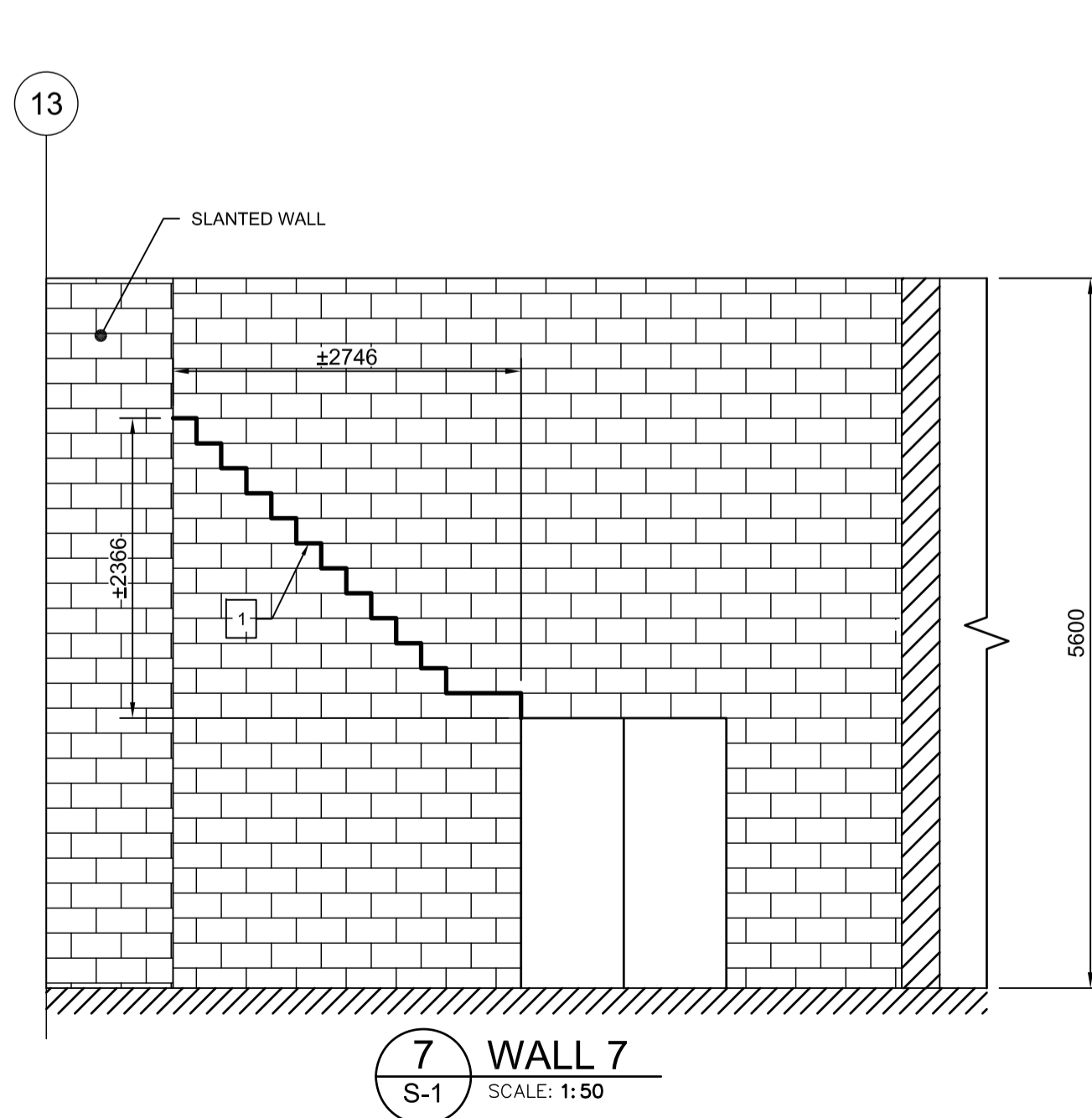
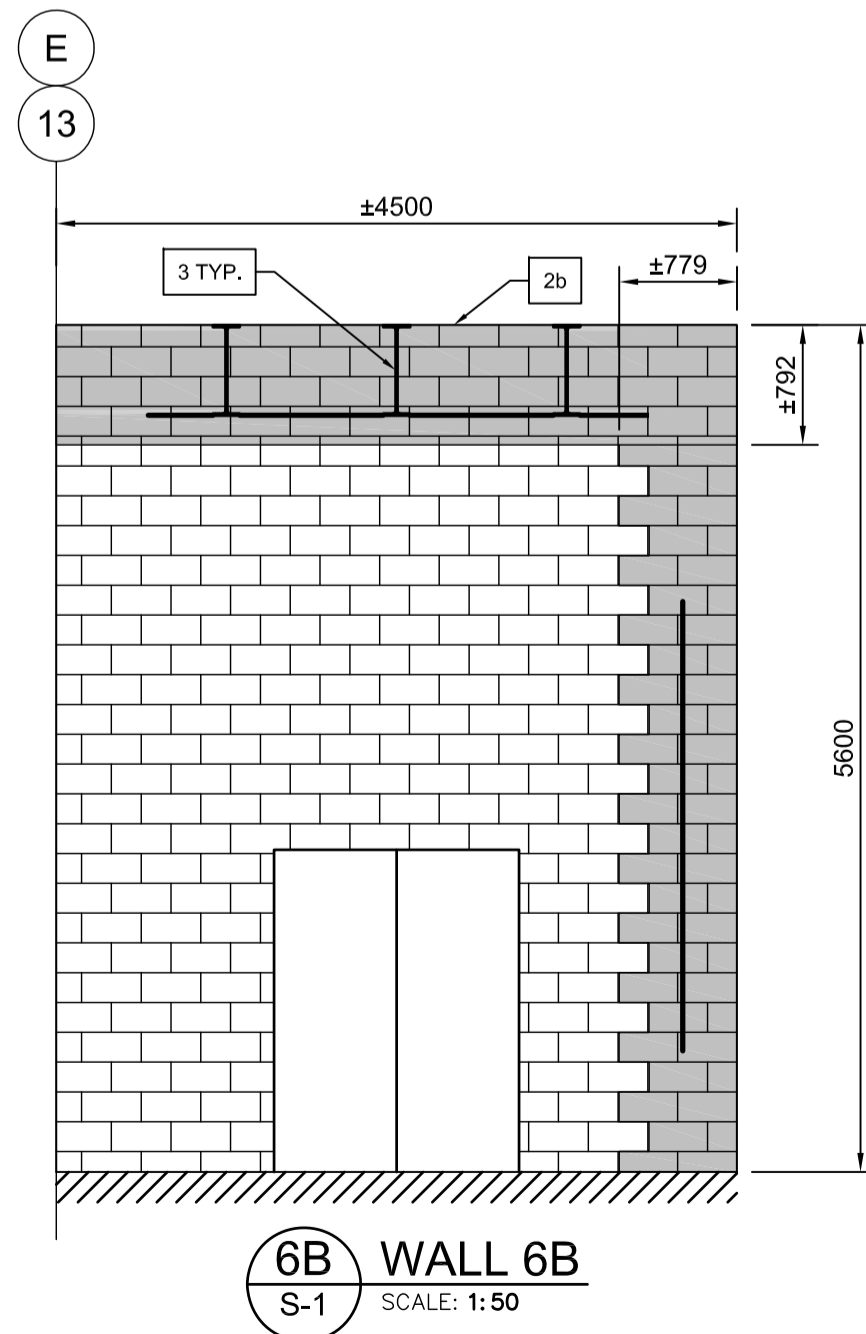
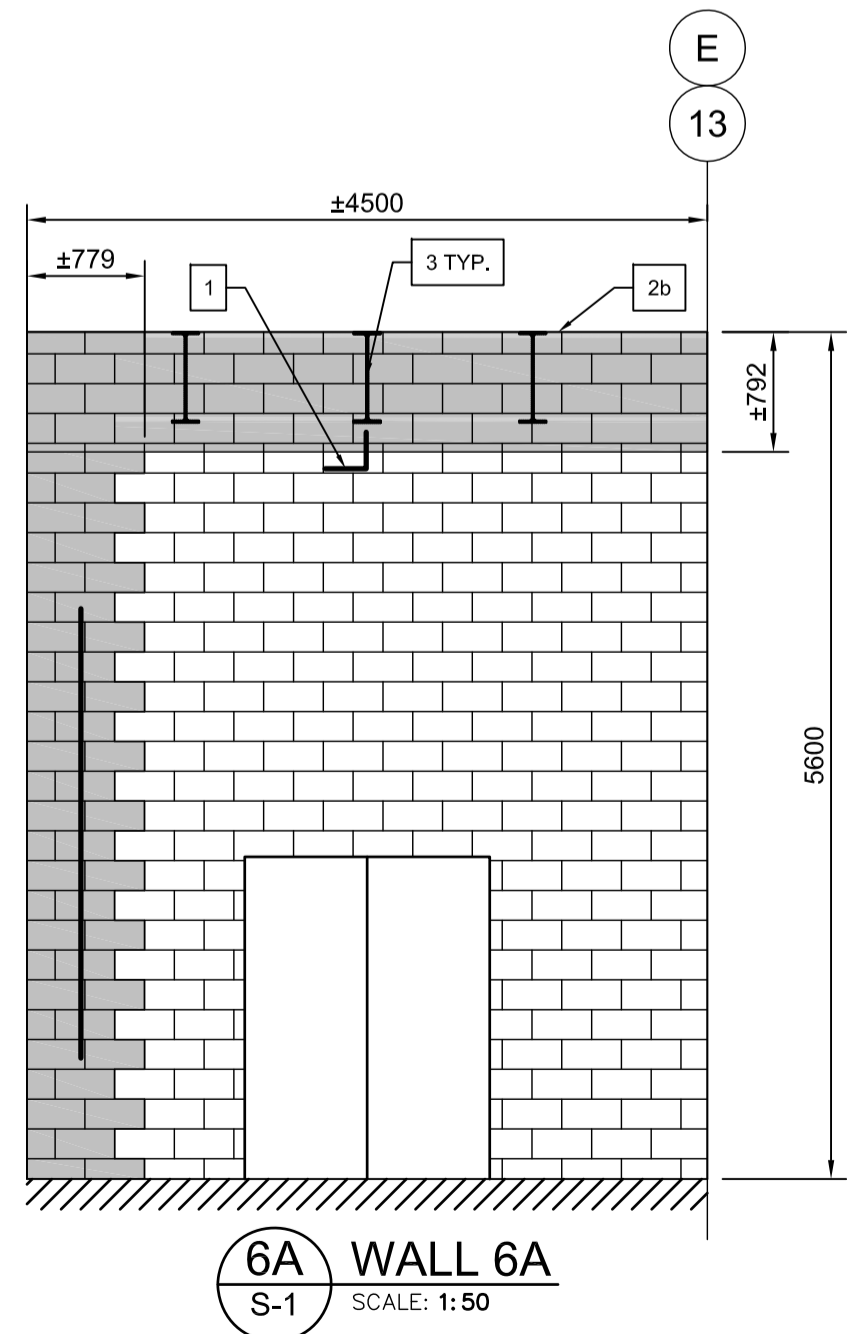
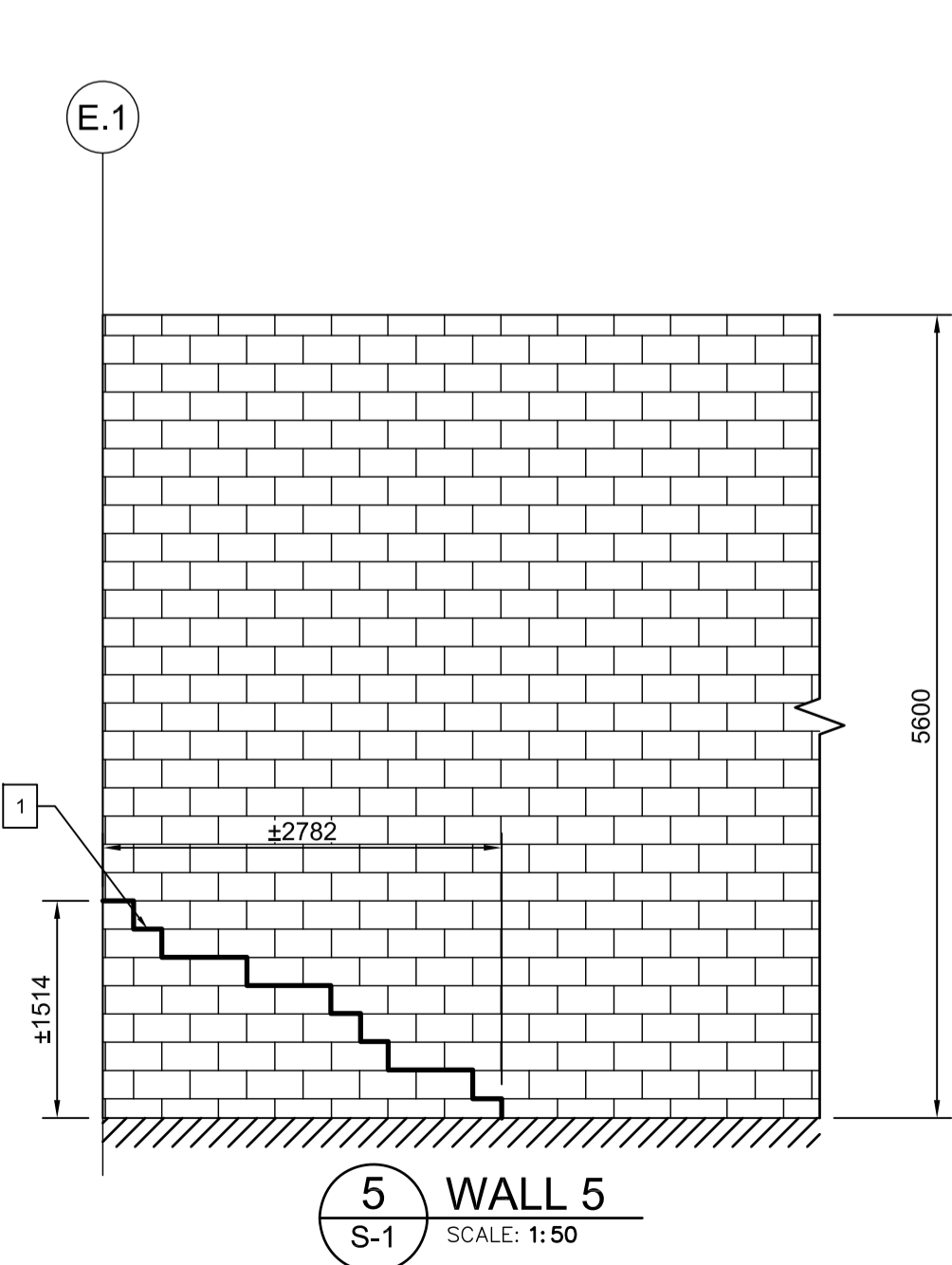
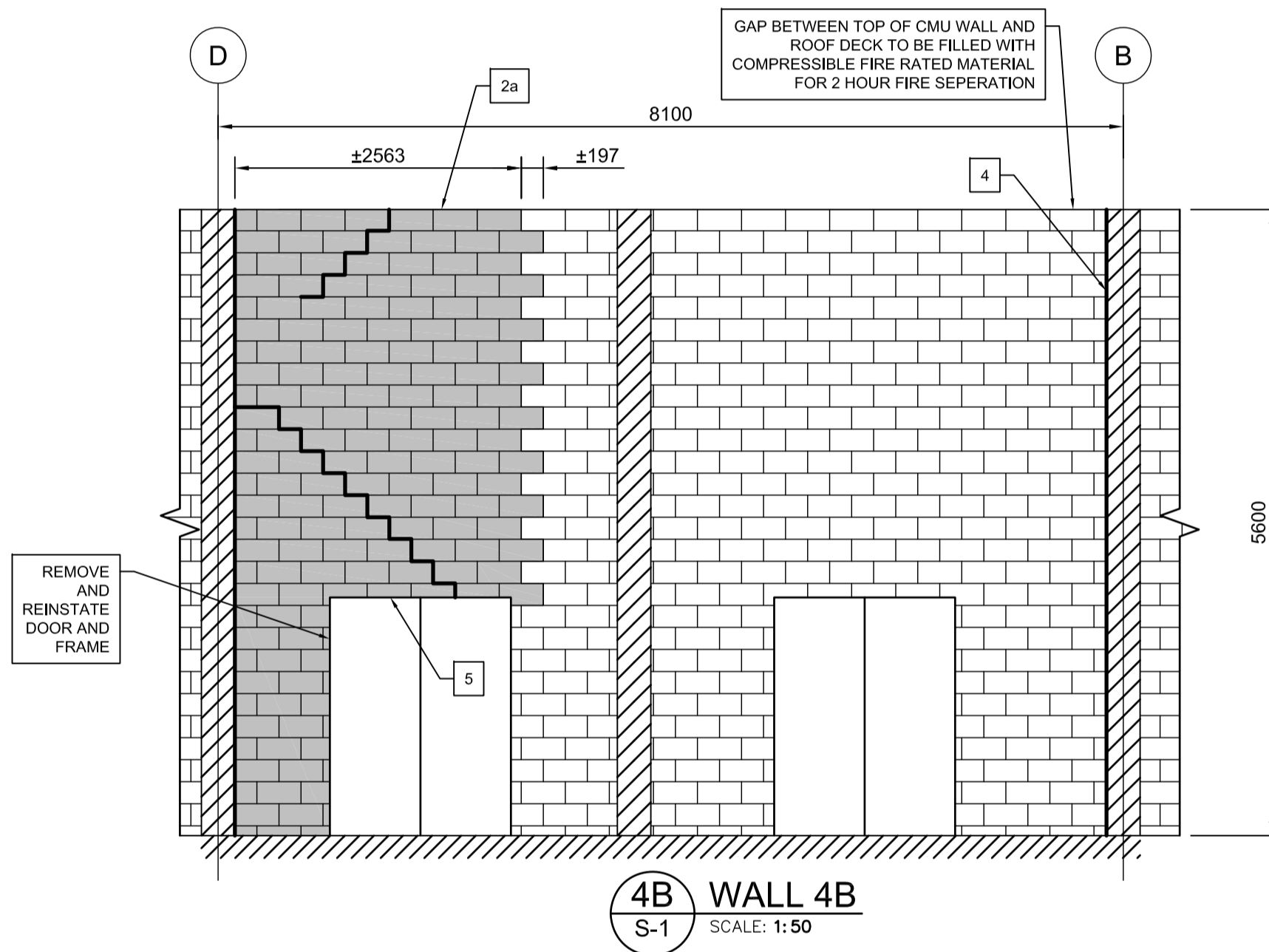
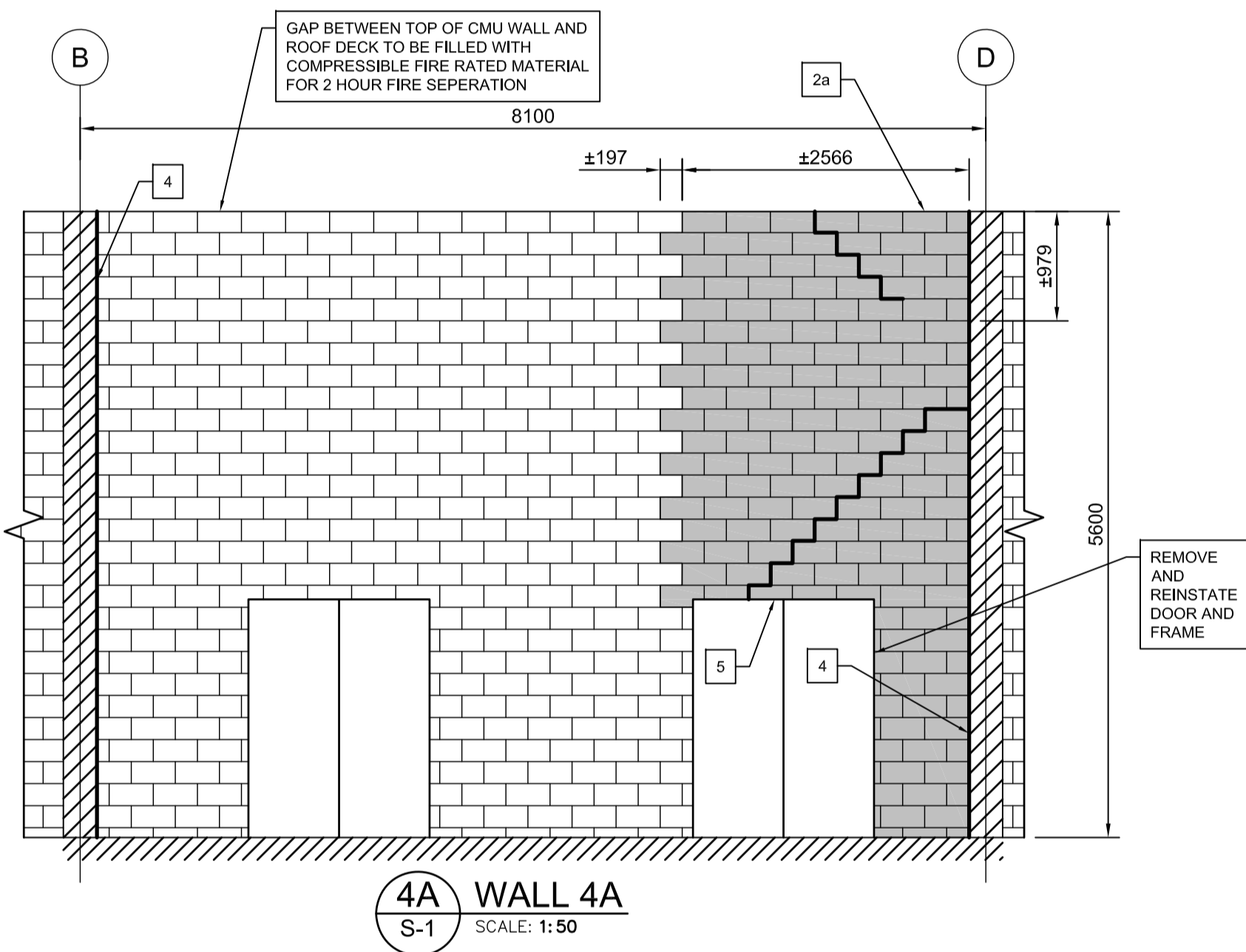
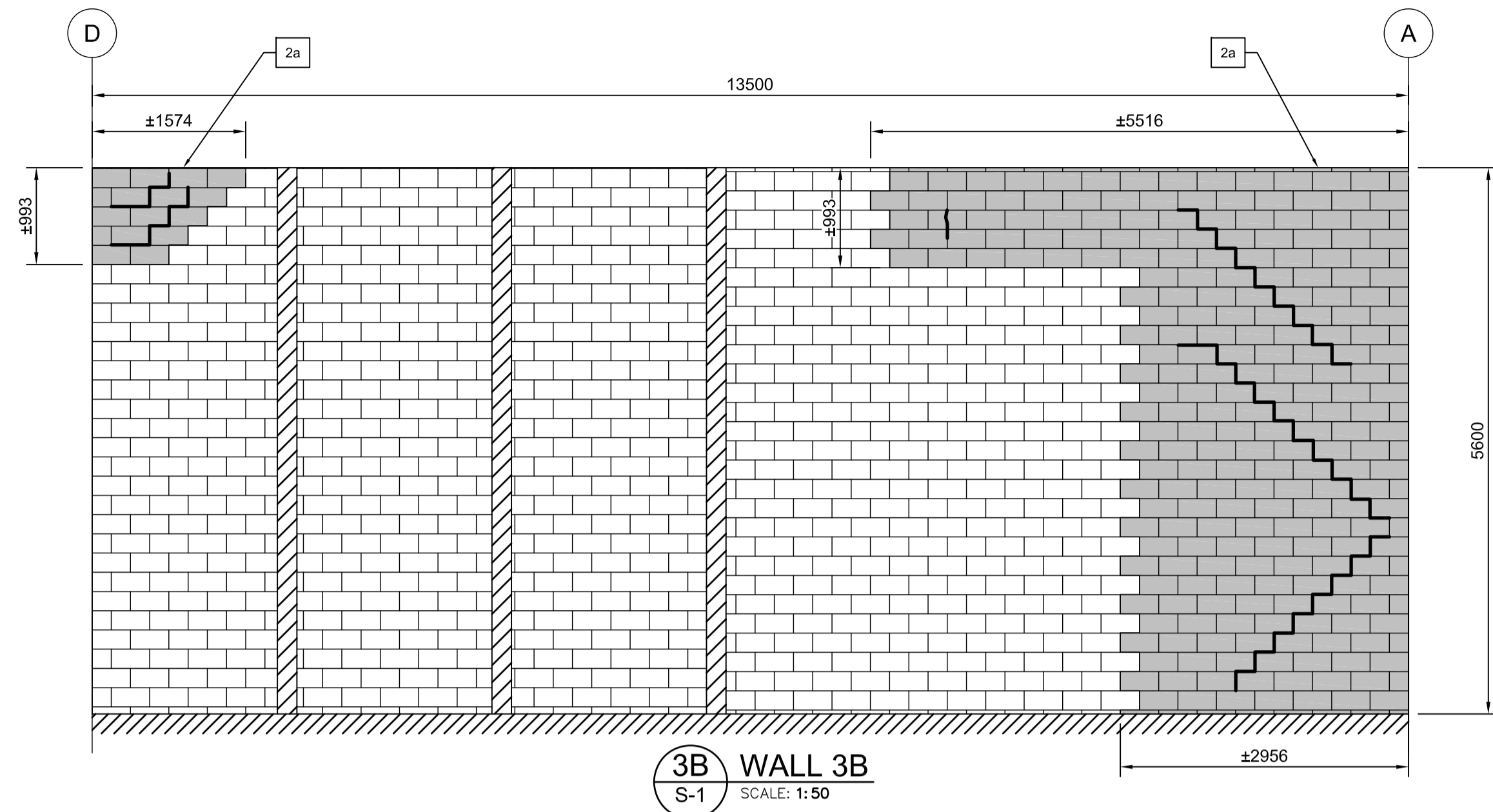
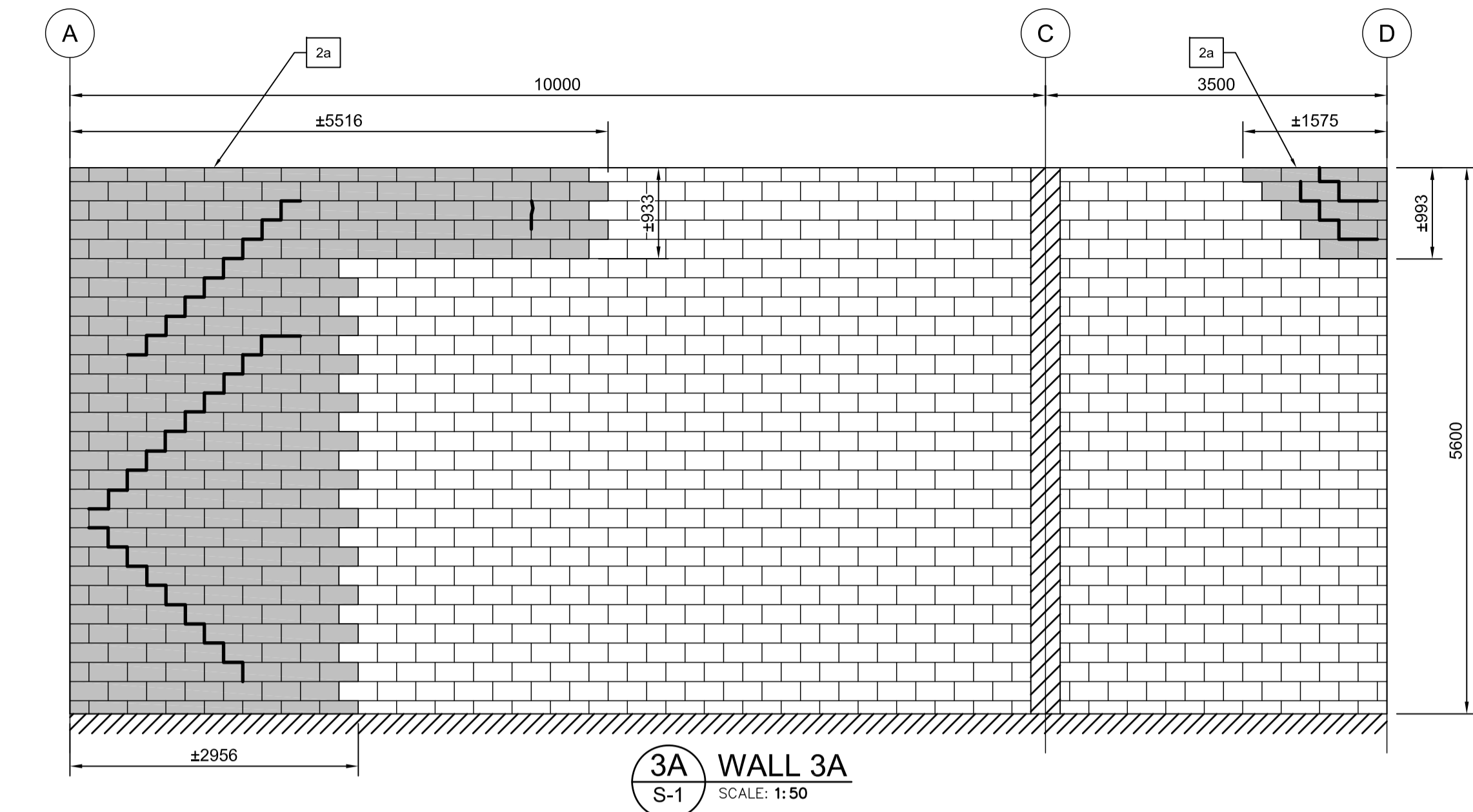
project manager
administrateur
de projets

project date
date du projet
2018-12-03

project no.
no. du projet
R.100473.001

drawing no.
dessine no.
S-2





- 1 REPOINT FULL EXTENT OF CRACK
- 2a LATERALLY SUPPORT REBUILT WALL SECTION AS PER TYPICAL DETAILS - JOIST PARALLEL TO WALL
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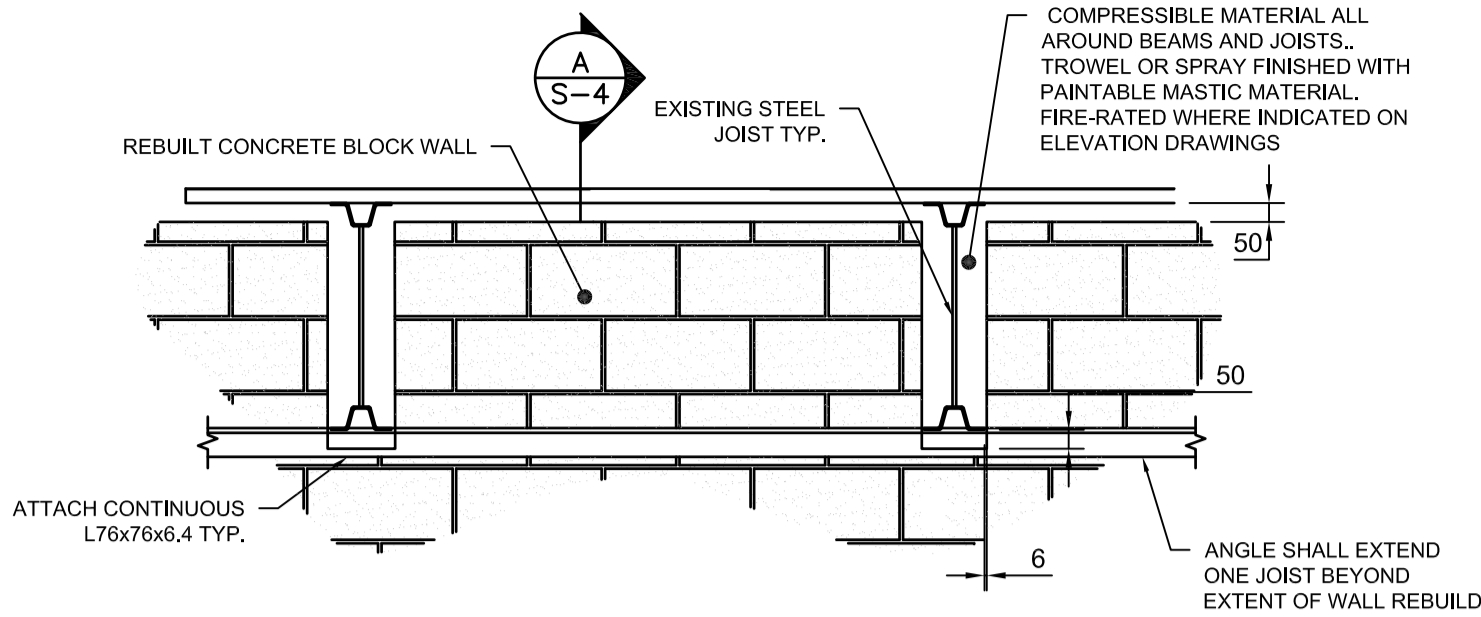
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Canadian Coast Guard Base
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WALL CRACK REPAIRS

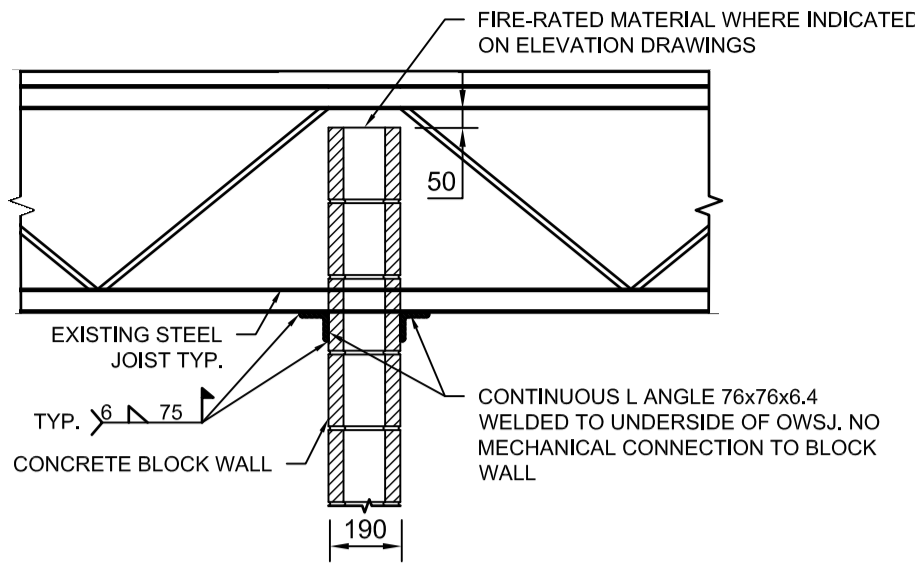
drawing title
titre du dessin
ELEVATIONS-PART 2

drawn by dessiné par	Claudia Bonneau
designed by conçu par	Josiah Fogarty
approved by approuvé par	Christoph von Teichman
tender soumission	NANG QACH
project manager administrateur de projets	
project date date du projet	2018-12-03
project no. no. du projet	R.100473.001
drawing no. dessin no.	S-3

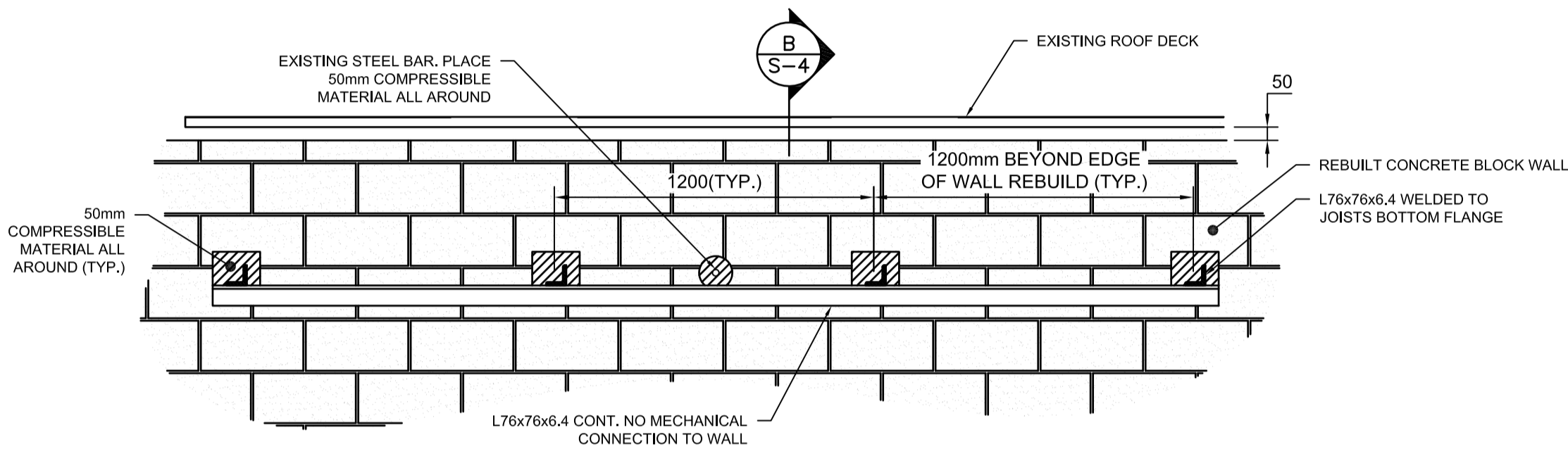




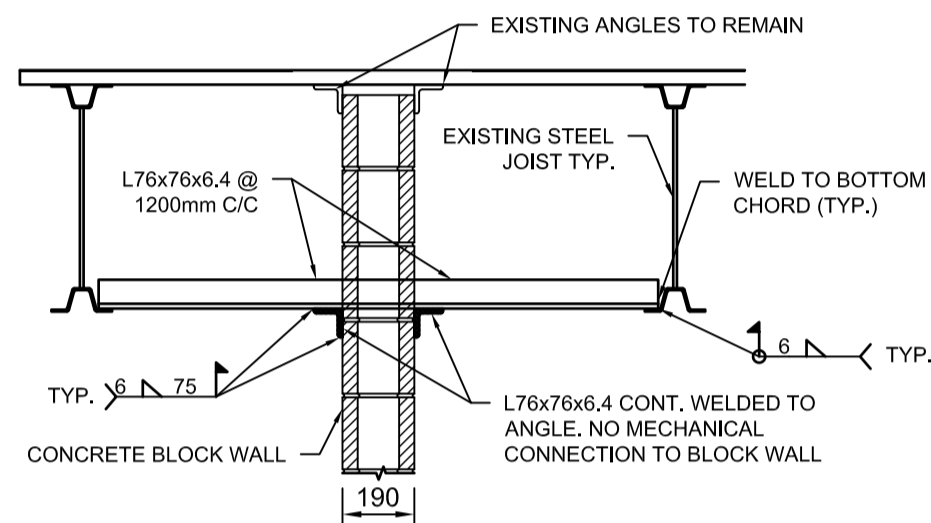
1 STEEL JOIST PERPENDICULAR TO BLOCK WALL- PENETRATION AND LATERAL SUPPORT
S-4 SCALE: 1:20



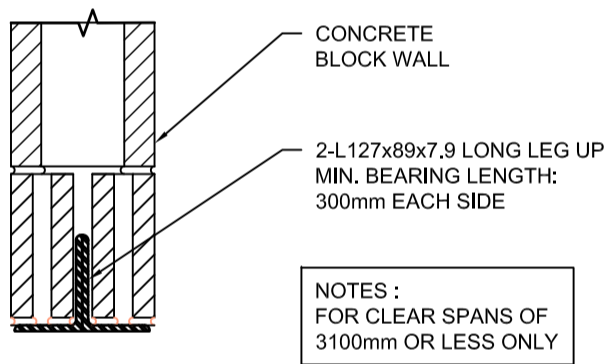
A STEEL JOIST PERPENDICULAR TO BLOCK WALL-SECTION
S-4 SCALE: 1:20



2 STEEL JOIST PARALLEL TO BLOCK WALL - PENETRATION AND LATERAL SUPPORT
S-4 SCALE: 1:20



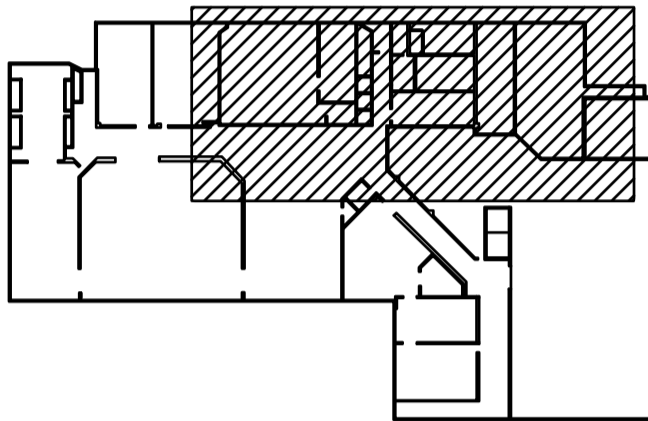
B STEEL JOIST PARALLEL TO BLOCK WALL-SECTION
S-4 SCALE: 1:20



3 NEW STEEL LINTEL
S-4 SCALE: 1:10



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TYPICAL DETAILS

drawn by
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Claudia Bonneau

designed by
conçue par
Josiah Fogarty

approved by
approuvé par
Christoph von Teichman

tender
soumission
NANG QACH

project manager
administrateur de projets

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drawing no.
dessiné no.
S-4

