

Parcs
Canada

CAPE SPEAR
LIGHTHOUSE DOME RECAPITALISATION
REHABILITATION PROJECT
ST. JOHN'S, NL

PROJECT NO. PCAN582

DRAWINGS:

C1 SITE PLAN

S1 LEVEL 1 FRAMING PLAN

S2 SECTIONS AND DETAILS

A1 BUILDING ELEVATIONS EXISTING CONDITIONS

A2 PLANS, EXISTING CONDITIONS

A3 TEMPORARY ENCLOSURE, TOWER PLAN,
SECTION AND DETAILS

A4 BUILDING SECTION

A5 DOME DETAILS

A6 DOME GLAZING UNIT SHOP
DEMO/RESTORATION DETAILS

A7 WINDOW AND DOOR ELEVATIONS

A8 WINDOW DETAILS

A9 DETAILS

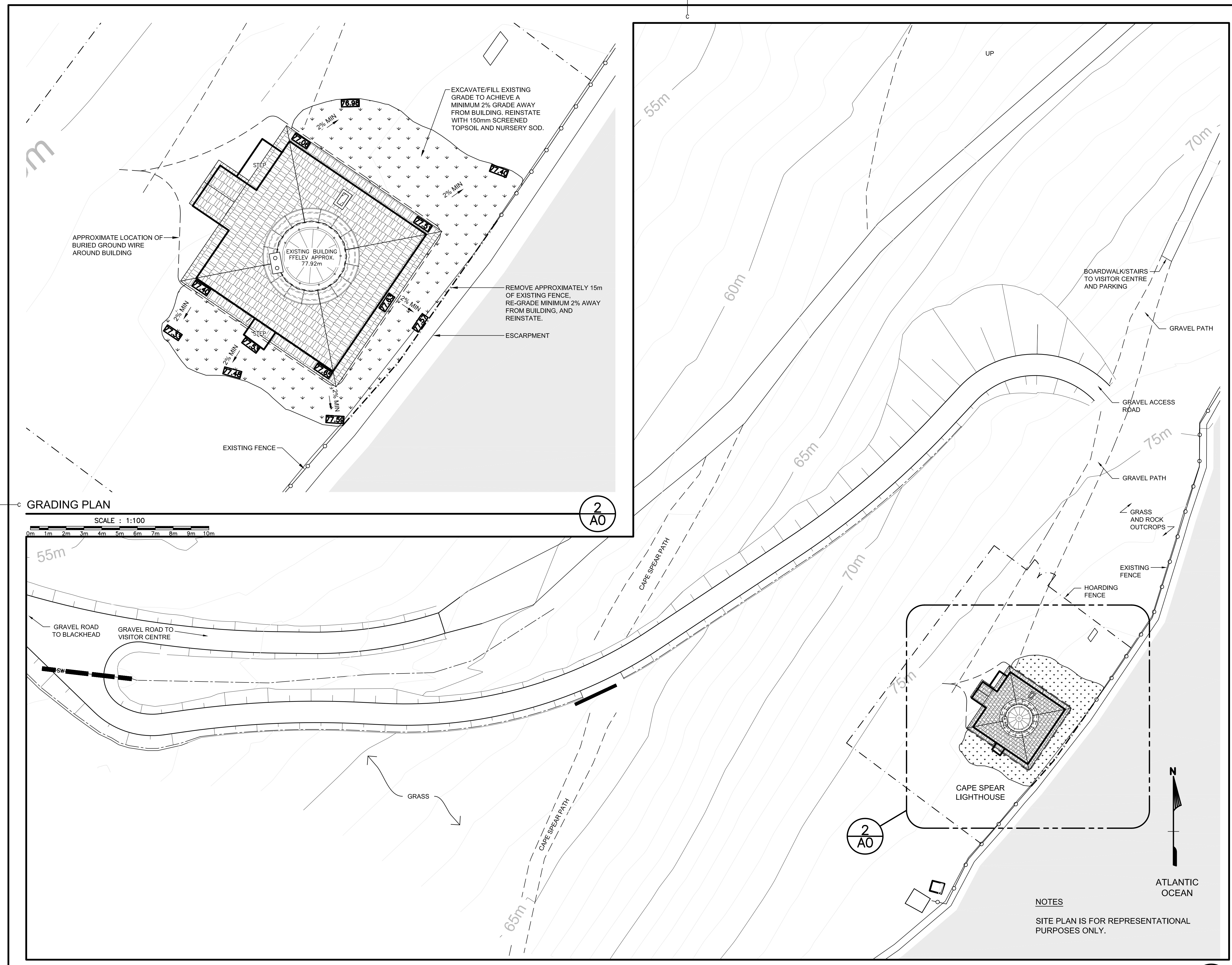
A10 DOME REFERENCE IMAGES

A11 DOME REFERENCE IMAGES

ELECTRICAL COVER SHEET

E1 ELECTRICAL LAYOUT

E2 ELECTRICAL DETAILS



ARCHITECT:

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architects

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GSA #: 16-6100-01

EXCAVATE EXISTING GRADE TO ACHIEVE A MINIMUM 2% GRADE AWAY FROM BUILDING. REINSTATE WITH 150mm SCREENED TOPSOIL AND NURSERY SOD.

70.00 SUGGESTED FINISH GRADE ELEVATION

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
AFN ENGINEERING INC.

To practice Professional Engineering in Newfoundland and Labrador:
Permit No. as issued by APBQNL_F0202
which is valid for the year 2018.

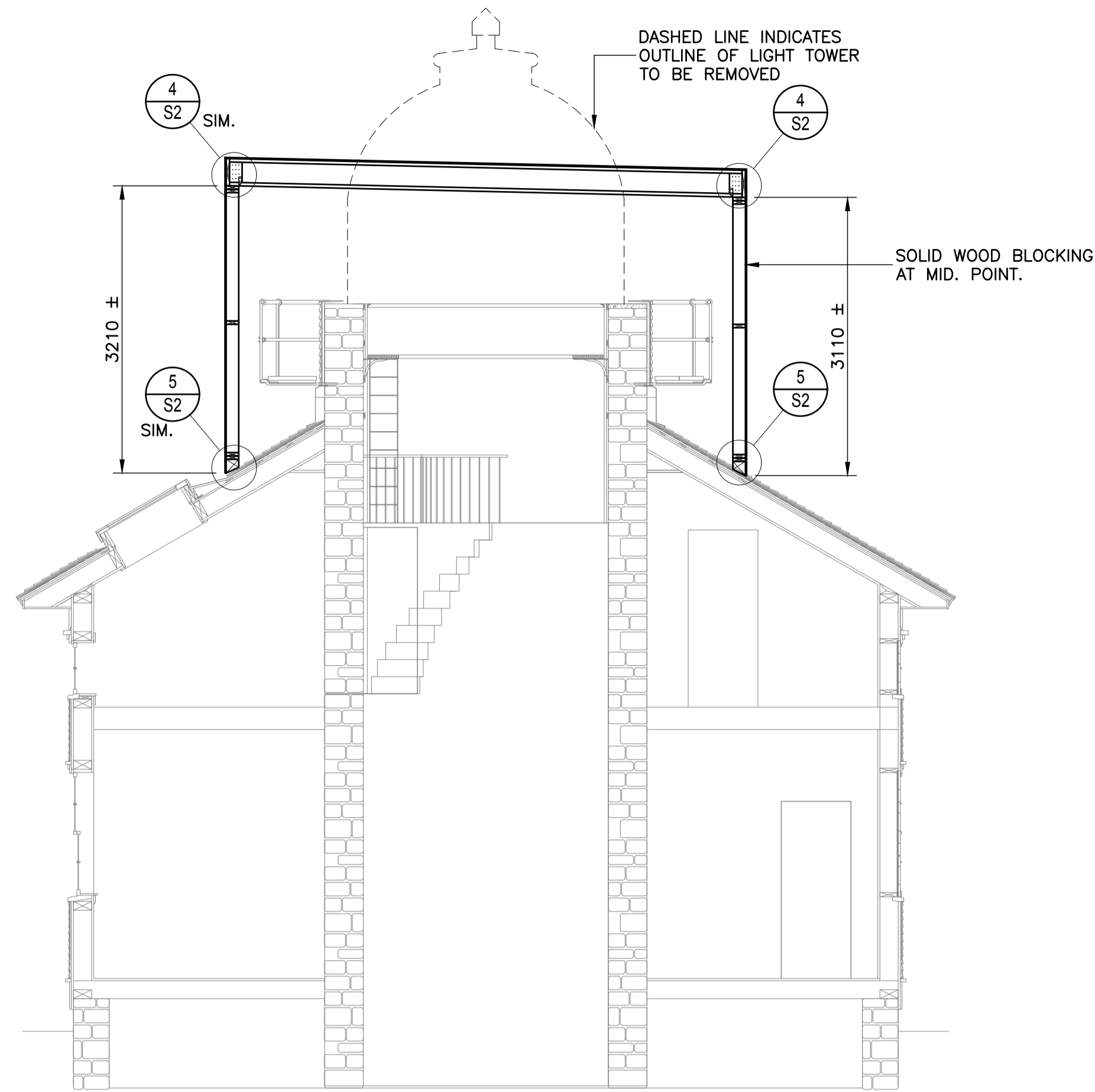


0	ISSUED FOR TENDER	FEB.9 2018
D	ISSUED FOR 100% REVIEW	JULY.24 2017
C	ISSUED FOR 99% REVIEW	MAY.10 2017
B	ISSUED FOR 50% REVIEW	MAR.10 2017
A	ISSUED FOR 30% REVIEW	FEB.3 2017
revisions		date
project		project

CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION
ST. JOHN'S, NL

ARCHITECTURAL SITE ACCESS PLAN

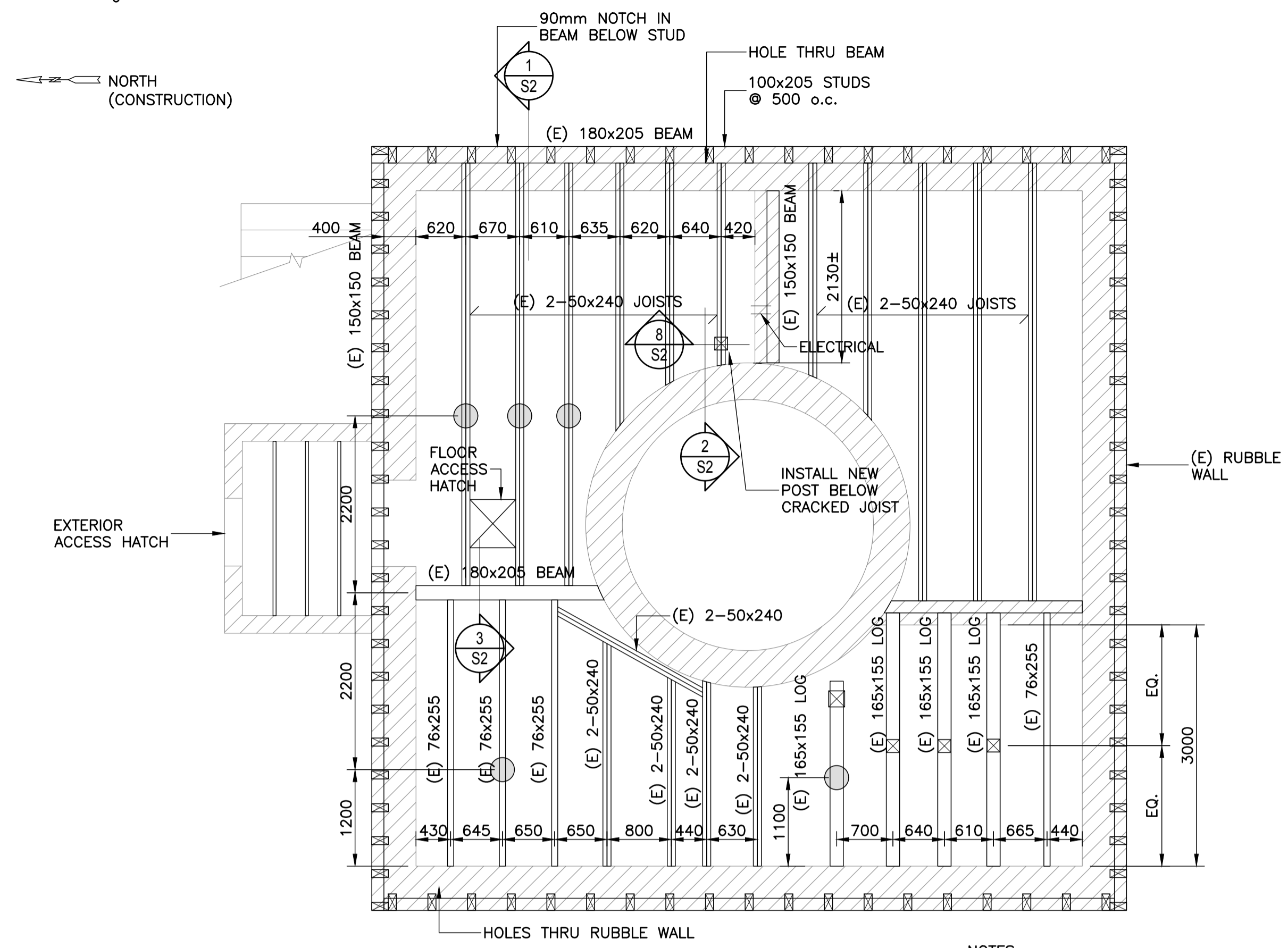
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date	DEC. 2016	
drawn	C. BAIRD	dessiné
date	DEC. 2016	
approved		approuvé
date		
Tender		Submission
PWSC Project Manager	Administrateur de projets TPSGC	
project number		no. du projet
drawing no.		no. du dessin



TEMPORARY ENCLOSURE SECTION

SCALE - 1:50

3
S1



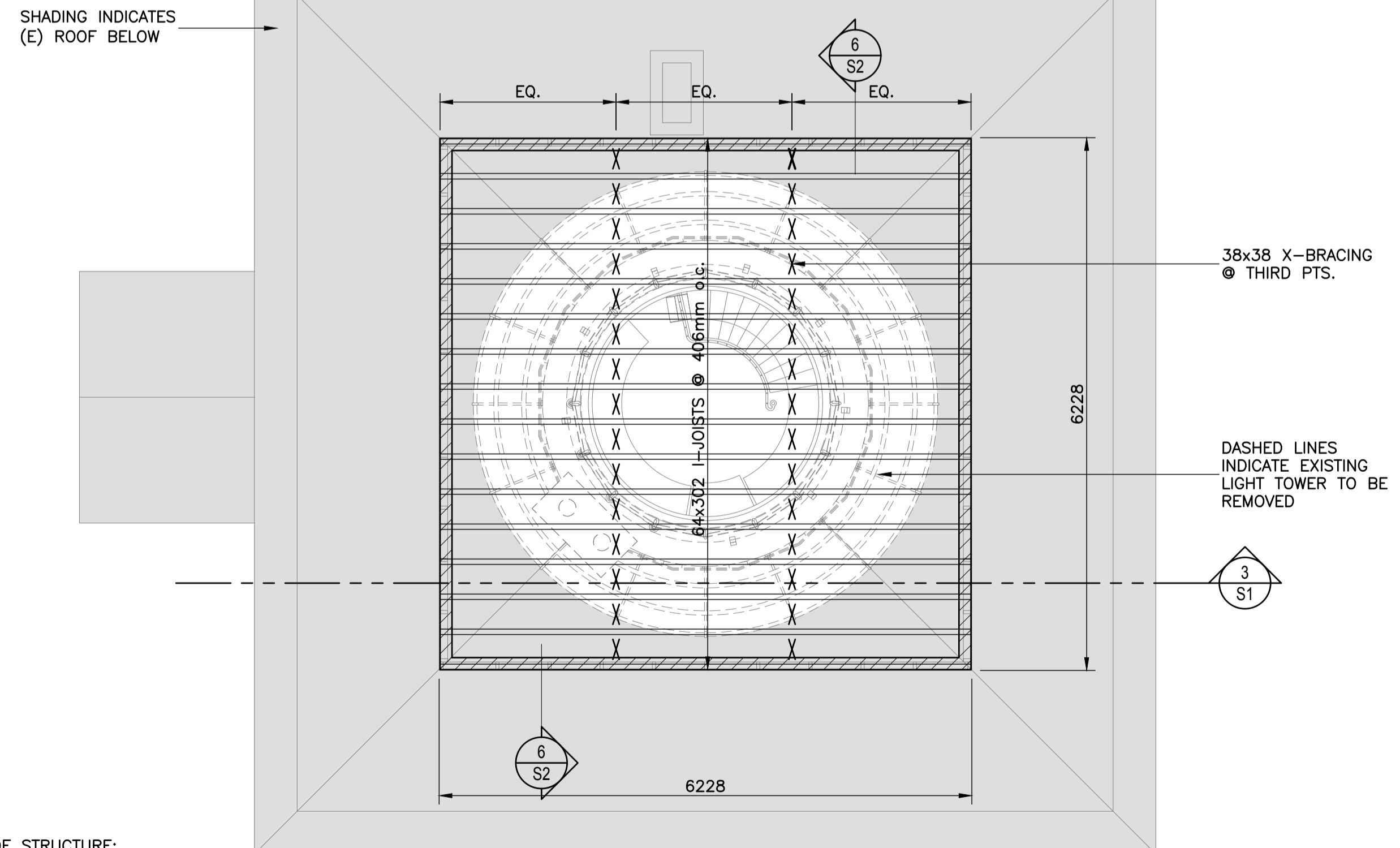
LEVEL 1 FRAMING PLAN

SCALE - 1:50

1
S1

- NOTES:
1. ○ - DENOTES EXISTING STONE PILLAR.
 2. □ - DENOTES NEW 89x89 P.T. SPF. No. 1/2 POST + CONCRETE PATIO BLOCK (SEE SECTION 9/S2 U.N.O.).

- STRUCTURAL WOOD NOTES**
1. SUBMIT I-JOIST SHOW DRAWING FOR REVIEW AND APPROVAL.
 2. PLYWOOD NAILING SCHEDULE
 1. ROOF SHEATHING
 - 64mm NAILS @ 150 o.c. AT PLYWOOD EDGES.
 - 64mm NAILS @ 300 o.c. AT INTERIOR OF SHEET.
 2. WALL SHEATHING
 - 64mm NAILS @ 150 o.c. AT PLYWOOD EDGES.
 - 64mm NAILS @ 300 o.c. AT INTERIOR OF SHEET.
 3. WOOD STUDS TO BE SPF NO. 1/2 GRADE UNLESS NOTED OTHERWISE.
 4. IF NOT SPECIFICALLY NOTED ON DRAWINGS PROVIDE SQUASH BLOCKS & RIM BOARDS FOR I-JOISTS AS PER MANUFACTURER'S RECOMMENDATIONS.
 5. IF NOT SPECIFICALLY NOTED ON DWGS PROVIDE BLOCKING FOR DOUBLE I-JOIST AS PER MANUFACTURER'S RECOMMENDATIONS.
 6. UNLESS OTHERWISE NOTED ALL EXTERIOR AND LOAD BEARING WALLS TO BE 38x140 @ 406 o.c. WITH HORIZONTAL BLOCKING AT 1220 o.c.
 7. UNLESS OTHERWISE NOTED EXTERIOR WALL SHEATHING TO BE 12.7mm PLYWOOD AND ROOF SHEATHING TO BE 13mm T&G PLYWOOD.
 8. (E) - INDICATES EXISTING CONSTRUCTION.



ROOF STRUCTURE:

- 13mm TH. EXTERIOR GRADE PLYWOOD
- 64x302 I-JOISTS @ 406mm o.c.
- X-BRACING

ROOF DESIGN LOADS:
(UNFACTORED)

- SNOW LOAD = 0.55(2.9) + 0.7 = 2.3kPa
- DEAD LOAD = 0.5kPa
- (INCLUDES SW)
- BASIC WIND LOAD = 0.78 kPa

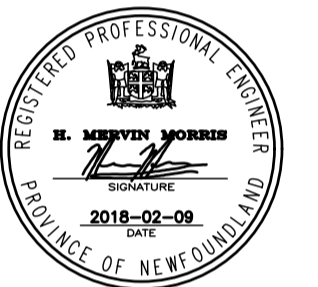
TEMPORARY ENCLOSURE ROOF PLAN

SCALE - 1:50

2
S1

- SHEET NOTES:
1. □ - DENOTES NEW 38x140 @ 406mm o.c. LOAD BEARING STUD WALL + 13mm TH. EXTERIOR GRADE PLYWOOD

GSA #: 16-6100-01

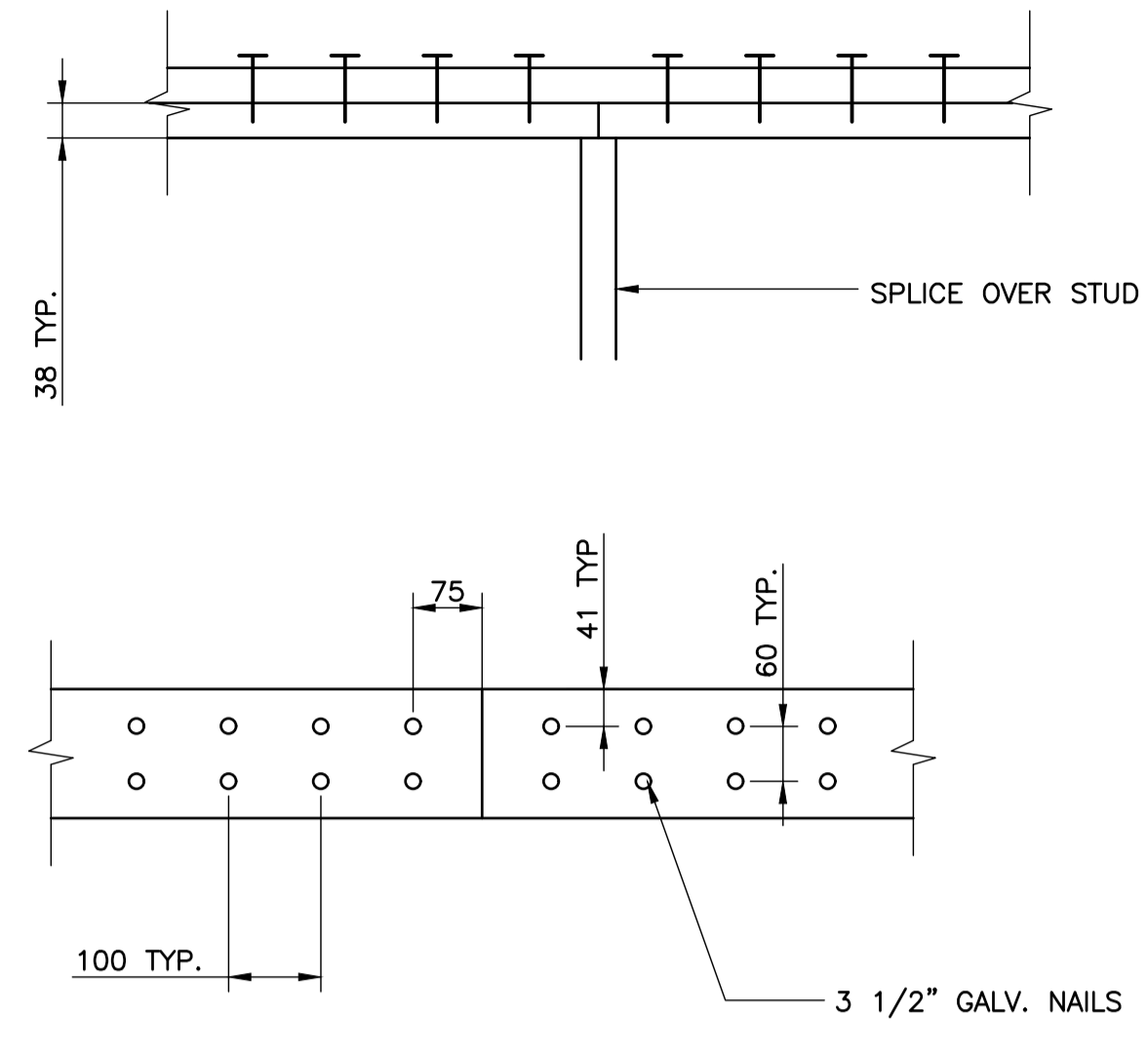


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B	Issued for 99% Review	May 10 2017
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project		projct

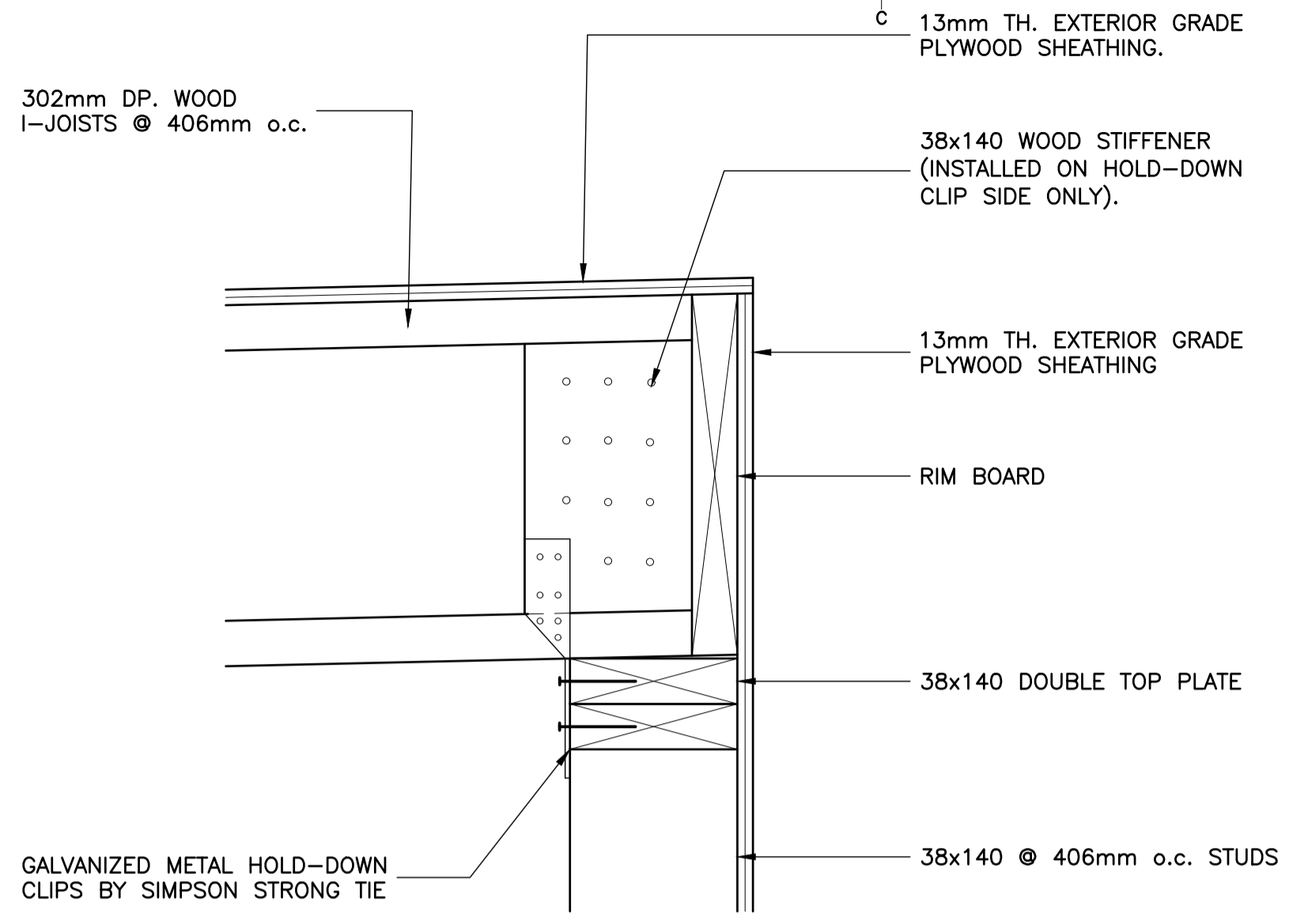
CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION

LEVEL 1 FRAMING PLAN

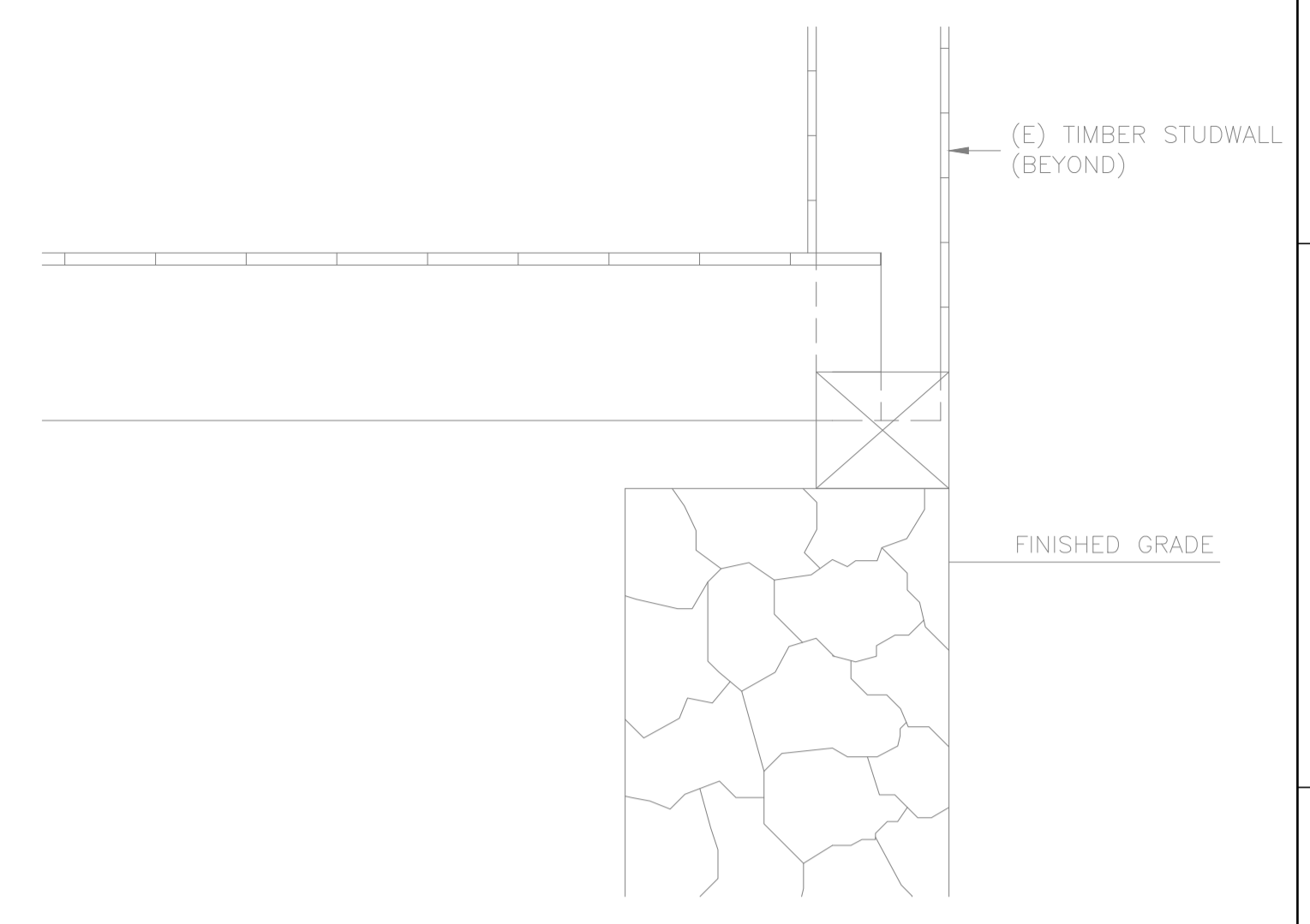
designed	M. MORRIS	conçu
date	DECEMBER 2016	
drawn	C. DELANEY	dessiné
date	DECEMBER 2016	
approved	M. MORRIS	approuvé
date	DECEMBER 2016	
Tender		Soumission
PWGSC Project Manager	Administrateur de projets TPGSC	
project number	16220	no. du projet
drawing no.	S1	no. du dessin



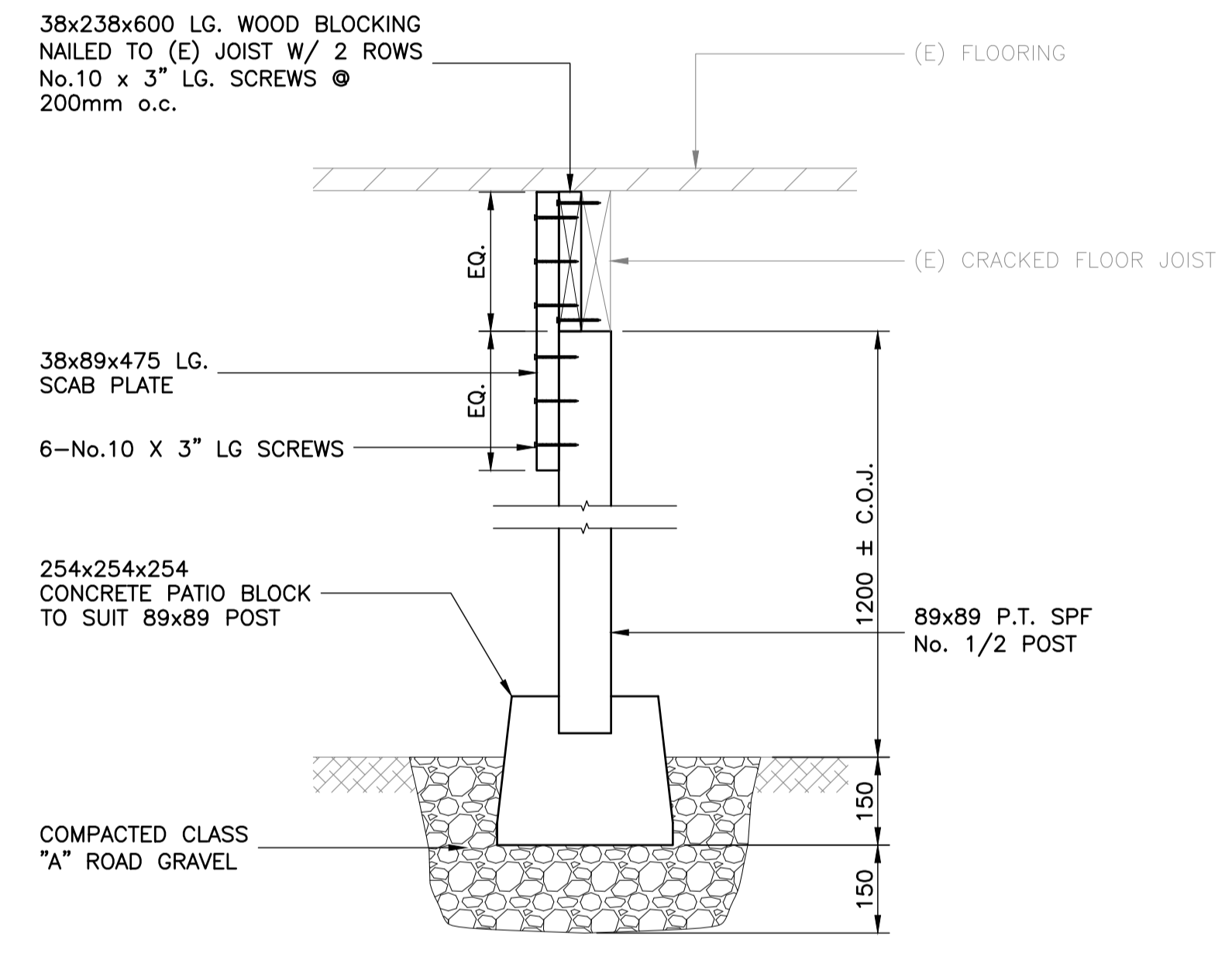
SECTION 7
SCALE - 1:5



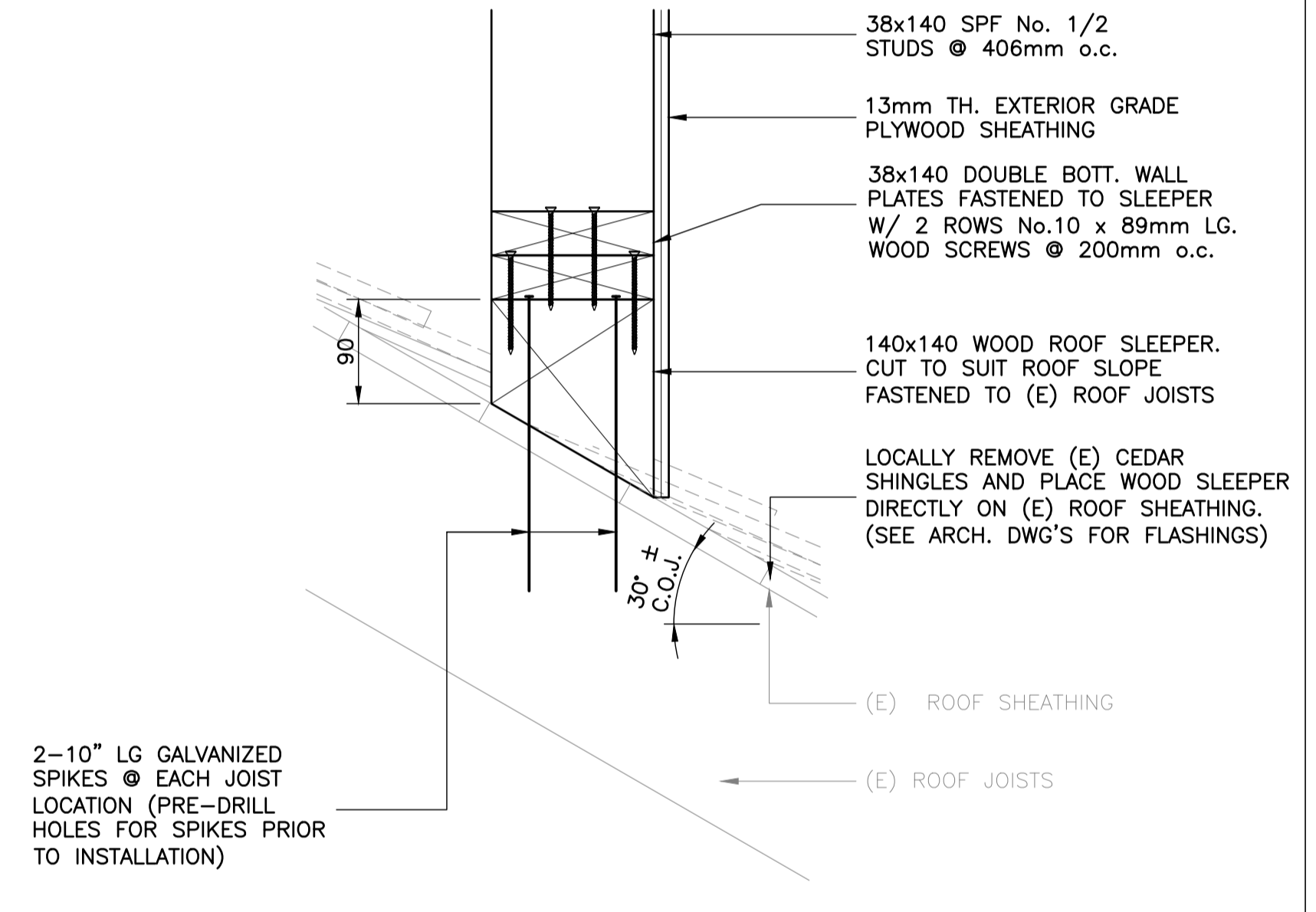
DETAIL 4
SCALE - 1:5



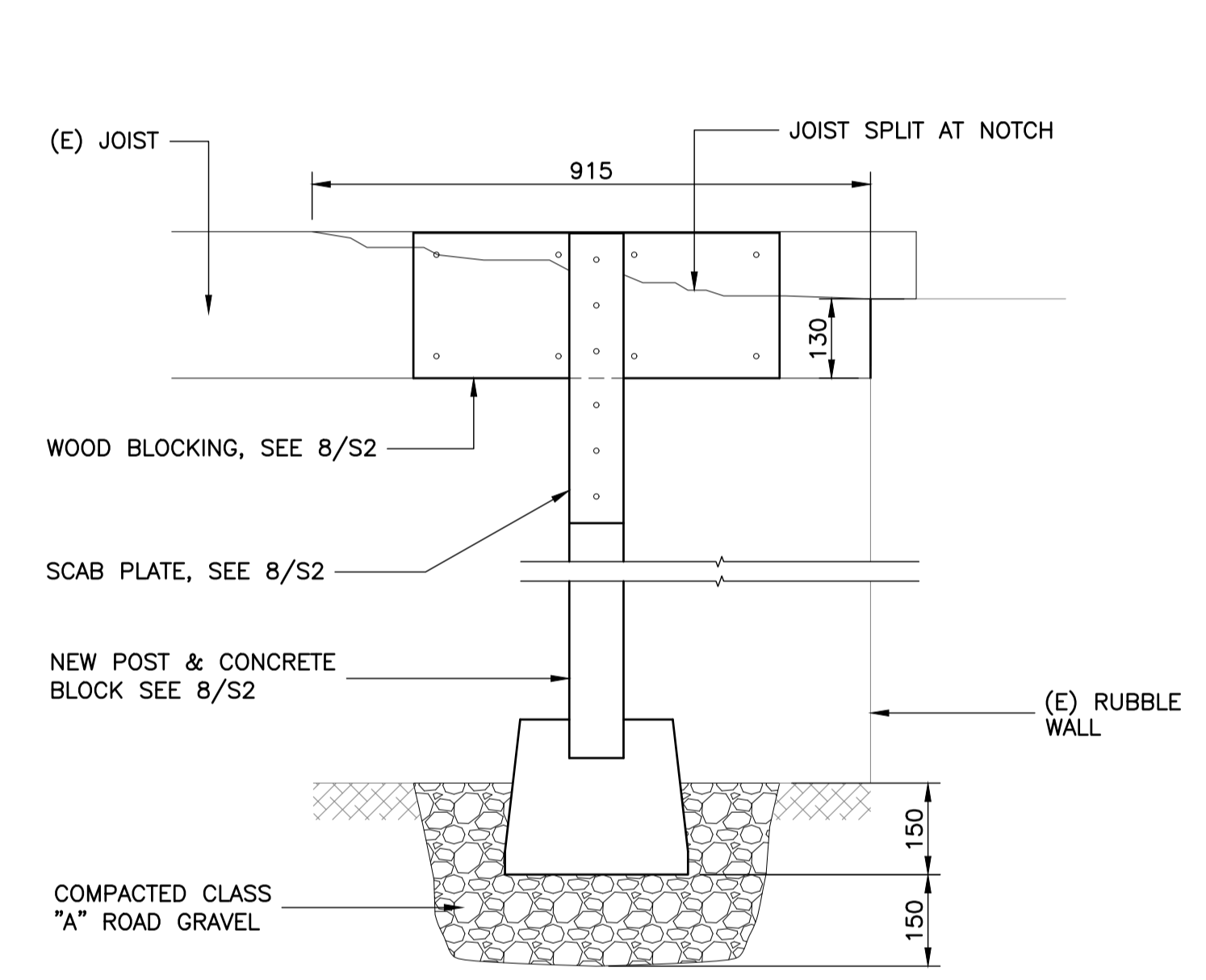
SECTION (EXISTING) 1
SCALE - 1:10



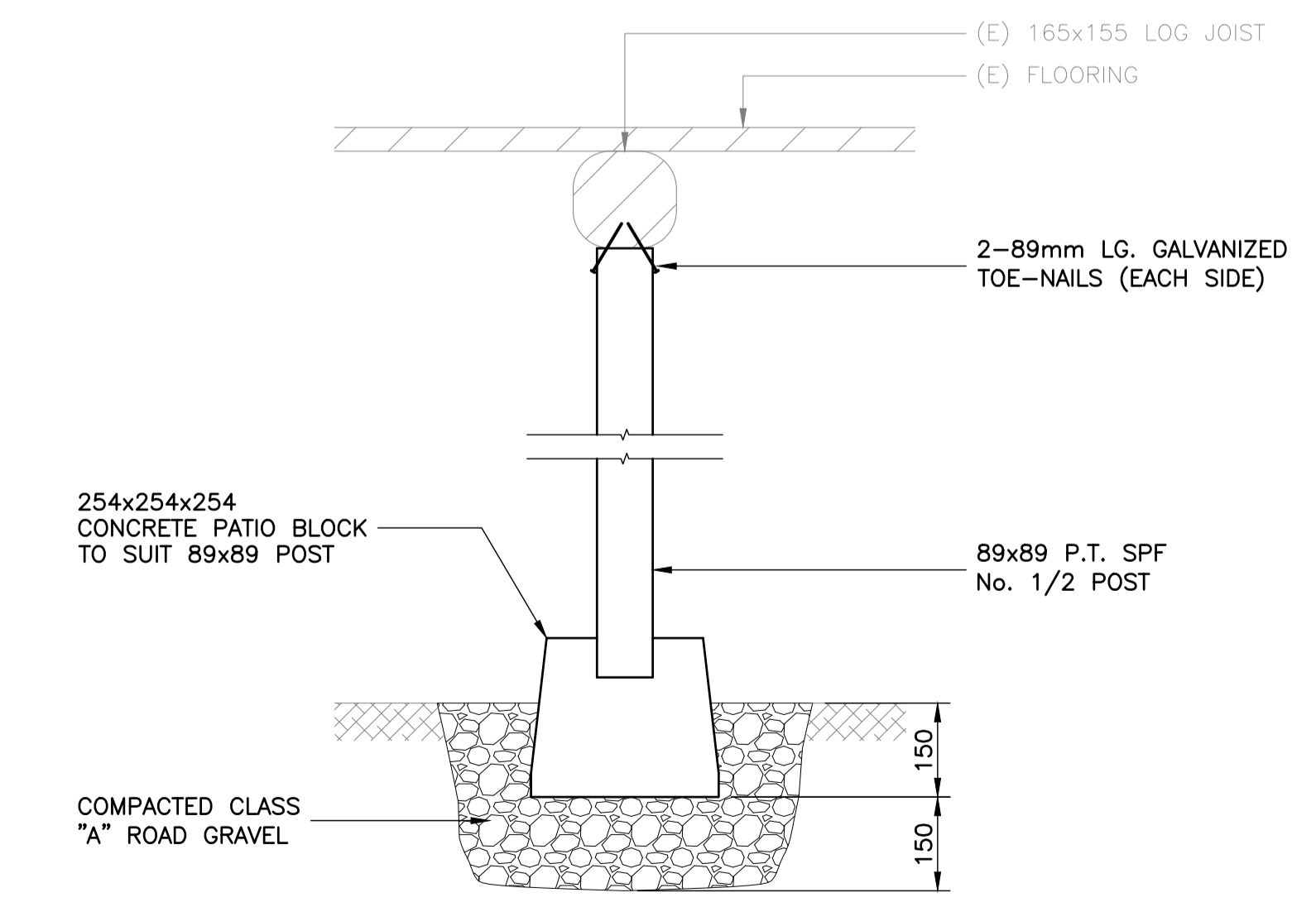
SECTION 8
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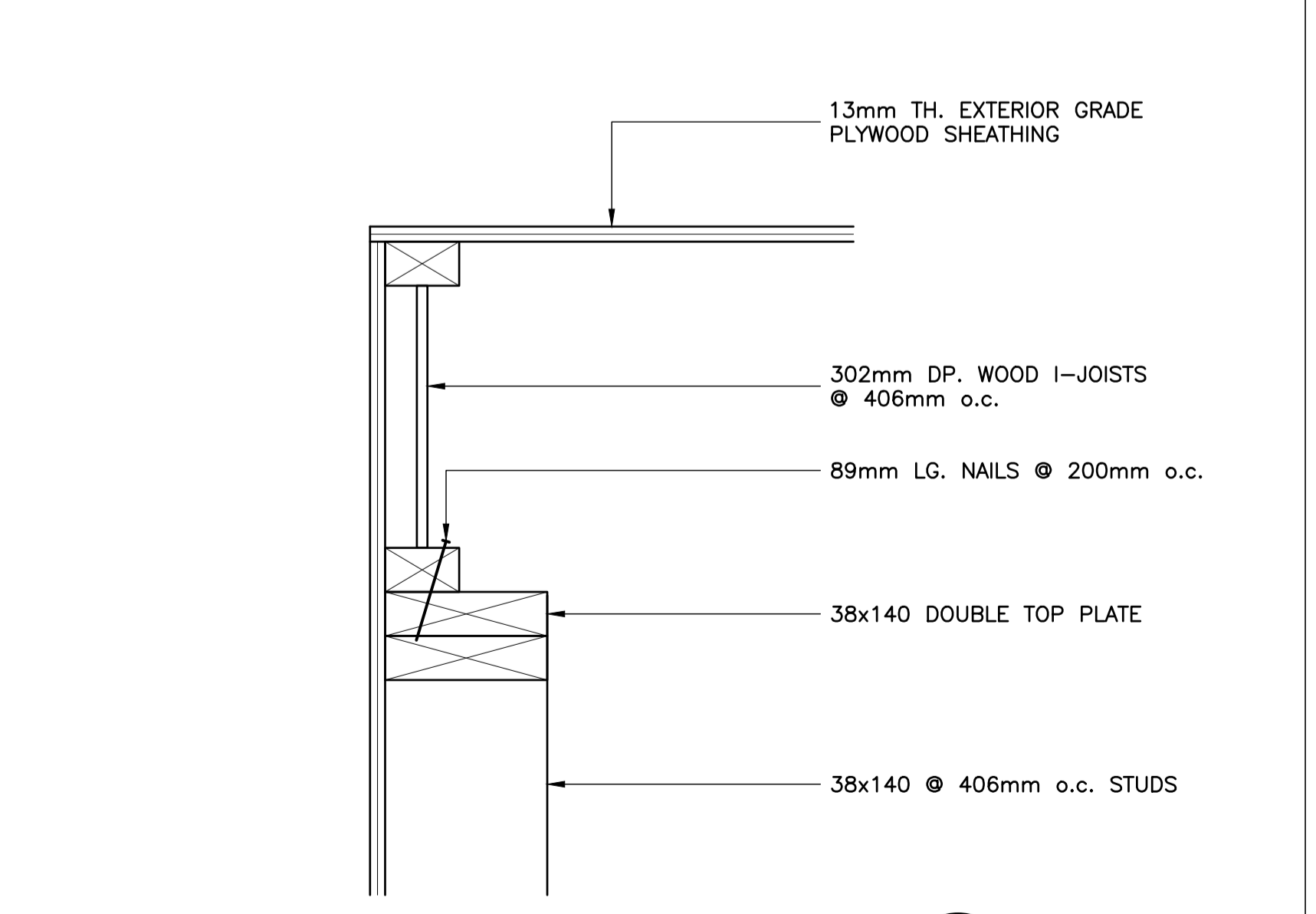
DETAIL 5
SCALE - 1:5



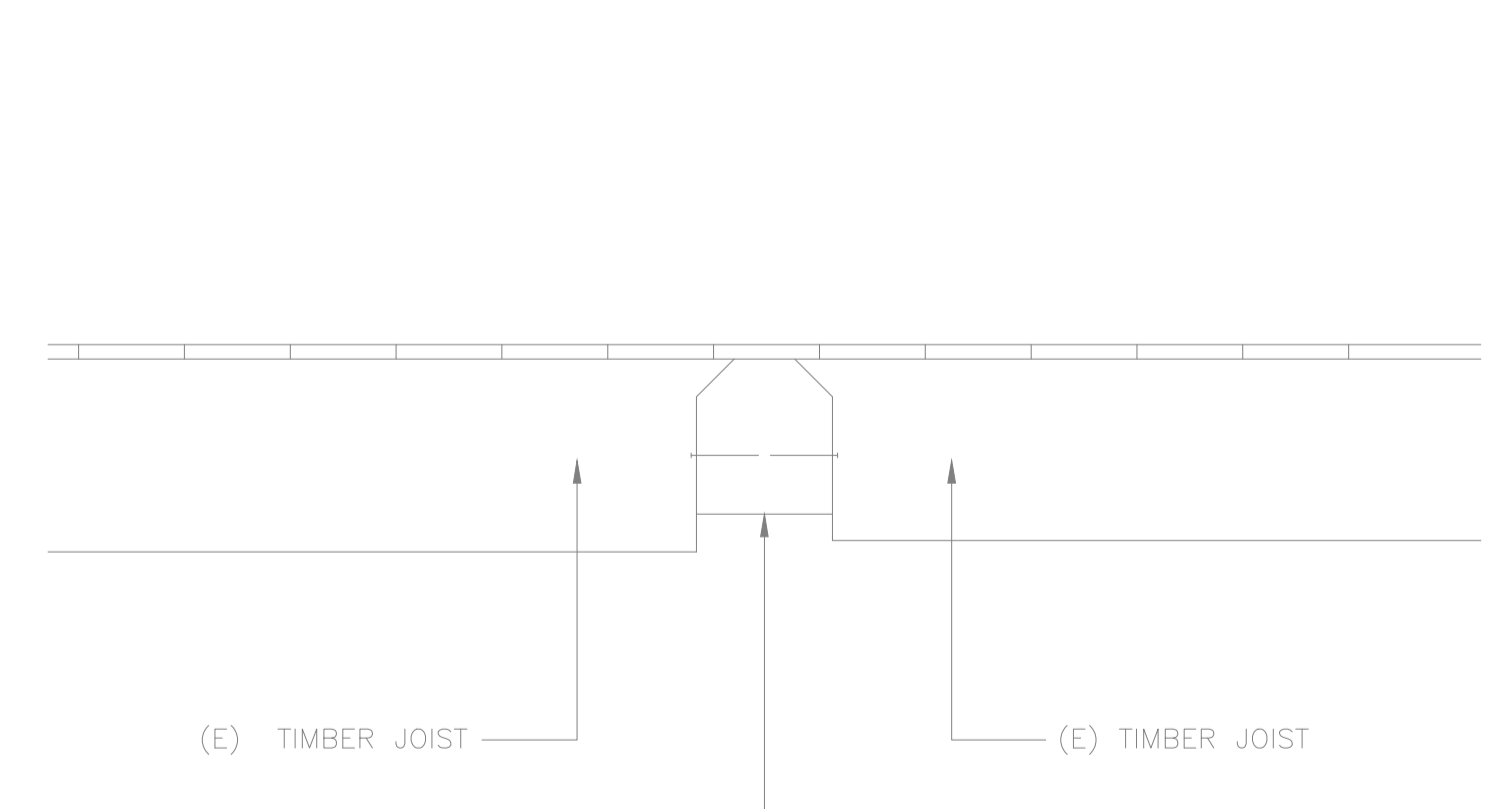
SECTION 2
SCALE - 1:10



SECTION 9
SCALE - 1:10



SECTION 6
SCALE - 1:5



SECTION (EXISTING) 3
SCALE - 1:10



PROVINCE OF NEWFOUNDLAND AND LABRADOR
REGISTERED PROFESSIONAL ENGINEER
M. MORRIS
2018-02-09
PERMIT HOLDER
This Permit Allows
DBA CONSULTING ENGINEERS LTD.
To practice Professional Engineering
in Newfoundland & Labrador.
Permit No. as issued by PEG 50189
which is valid for the year 2018.

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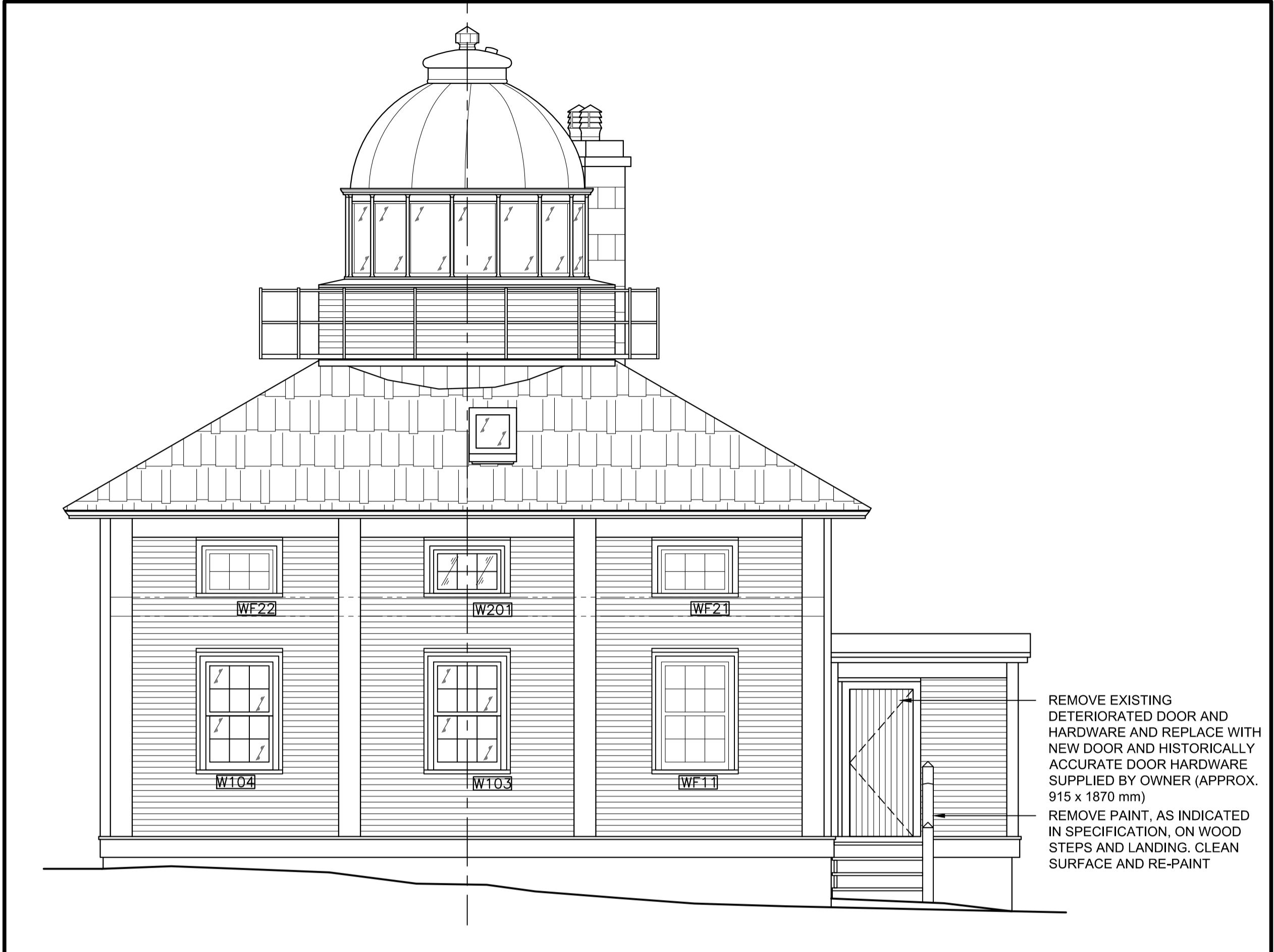
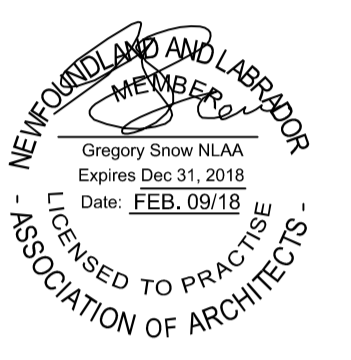
project project

CAPE SPEAR NHS
LIGHTHOUSE DOME
RECAPITALISATION

drawing dessin

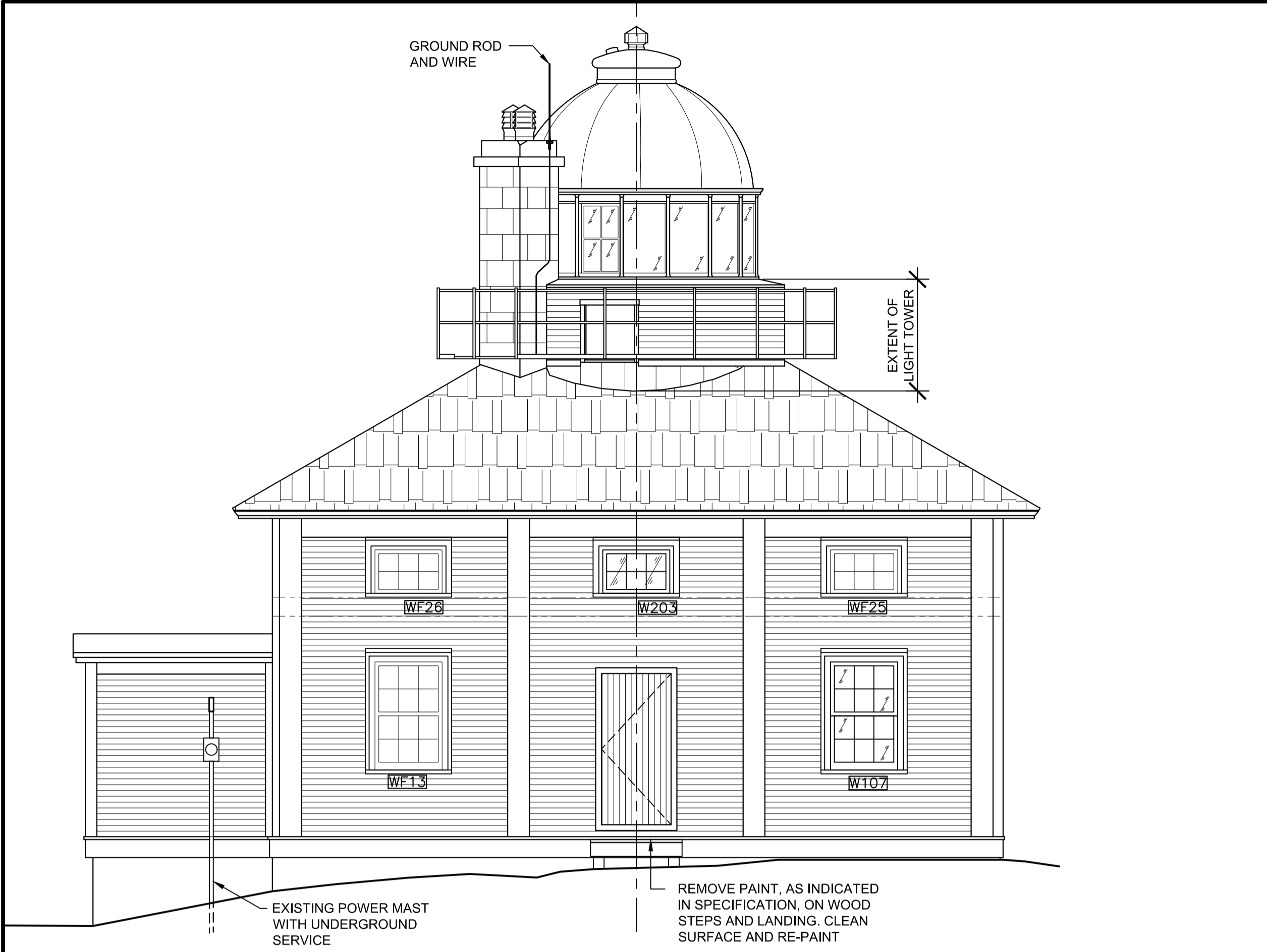
SECTIONS AND DETAILS

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	16220	
drawing no.	no. du dessin	
	S2	



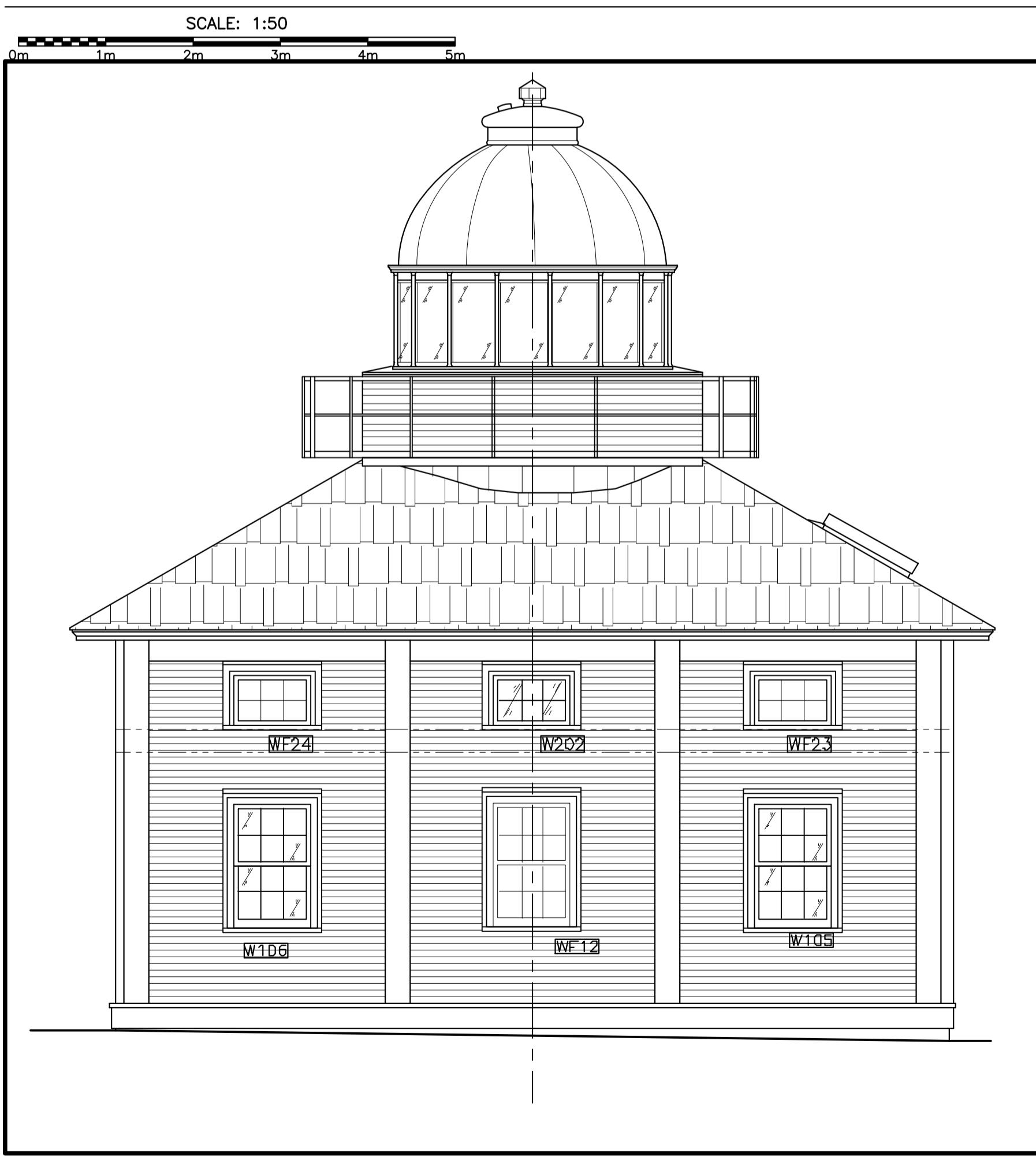
EAST ELEVATION

4
A1



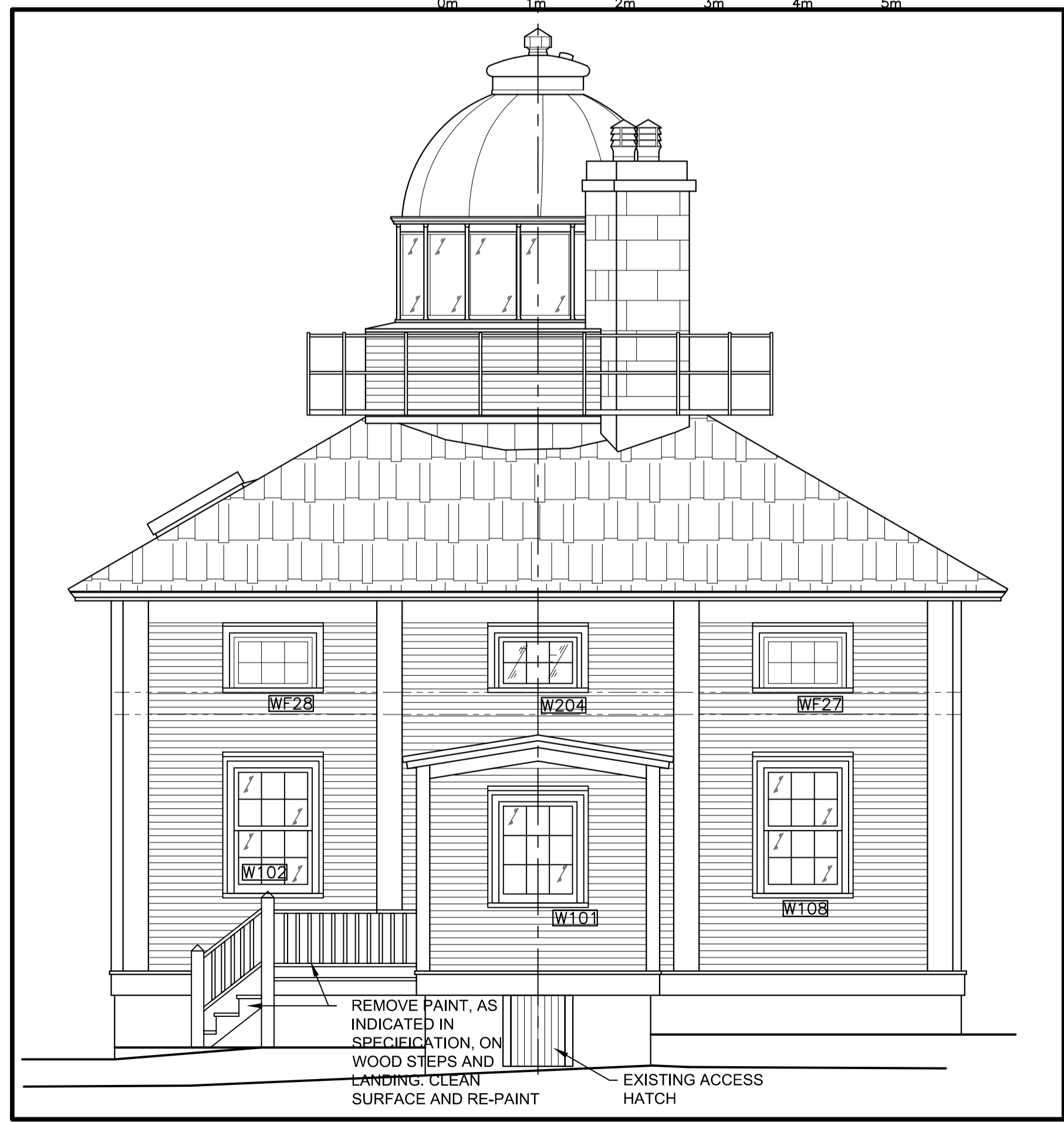
WEST ELEVATION

2
A1



SOUTH ELEVATION

3
A1



NORTH ELEVATION

1
A1

- GENERAL NOTES:**
- REMOVE PAINT AS INDICATED IN SPECIFICATION ON ALL EXTERIOR WOOD SURFACES INCLUDING BUT NOT LIMITED TO CLADDING, TRIMS, FASCIAS, SOFFITS, EAVES, WINDOWS AND COMPONENTS, DOORS, STEPS, ETC. CLEAN SURFACE AND RE-PAINT.
 - ALL EXISTING WOOD CLADDING, SHEATHING, STRAPPING AND MOPPED ON FIBER REINFORCED ASPHALT AIR BARRIER TO BE REMOVED IN ITS ENTIRETY FROM THE TOWER. WOOD CLADDING TO BE TAKEN OFF SITE TO BE COMPLETELY STRIPPED, PRIMED AND REPAINTED IN SHOP PRIOR TO RE-INSTALLATION.
 - ALL WINDOWS AND COMPONENTS TO BE CAREFULLY REMOVED, RESTORED AND REINSTALLED. DETERIORATED WOOD IN WINDOWS TO BE REPLACED TO MATCH EXISTING - SEE UNIT PRICE IN SPEC. REPAIR ALL ADJACENT SURFACES TO LIKE NEW CONDITION.
 - ALL FALSE WINDOW COMPONENTS TO BE CAREFULLY REMOVED, RESTORED AND REINSTALLED. DETERIORATED WOOD AND MISSING WOOD PIECES IN FALSE WINDOWS TO BE REPLACED - SEE UNIT PRICE IN SPEC. REPLACE WITH NEW TO MATCH ADJACENT. REPAIR ALL ADJACENT SURFACES TO LIKE NEW CONDITION.
 - REMOVE MAIN ENTRANCE DOOR AND HARDWARE AND INSTALL NEW DOOR AND HARDWARE SUPPLIED BY OWNER. REPAIR ALL ADJACENT SURFACES TO LIKE NEW CONDITION.
 - SHOP WORK:** LANTERN AND DOME TO BE COMPLETELY DISASSEMBLED. COMPONENTS CAREFULLY RECORDED, ALL FINISHES REMOVED, RE-PAINTED AND REASSEMBLED. RESTORE ALL COMPONENTS WHERE POSSIBLE. REPLACE MISSING COMPONENTS WHERE REQUIRED TO MATCH EXISTING.
 - LIFTING PLAN:** CONTRACTOR TO PROVIDE A DETAILED LIFTING PLAN STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF NEWFOUNDLAND LABRADOR.

LANTERN AND DOME TO BE REMOVED IN A SINGLE LIFT OPERATION AND BROUGHT OFF SITE FOR SHOP RESTORATION. EXISTING GLAZING TO BE REMOVED PRIOR TO LIFT.

LANTERN AND DOME TO BE RE-INSTALLED IN A SINGLE LIFT OPERATION AFTER SHOP RESTORATION. GLAZING TO BE RE-INSTALLED ON SITE AFTER DOME SECURED IN FINAL LOCATION.

GENERAL NOTES

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ST. JOHN'S, NL

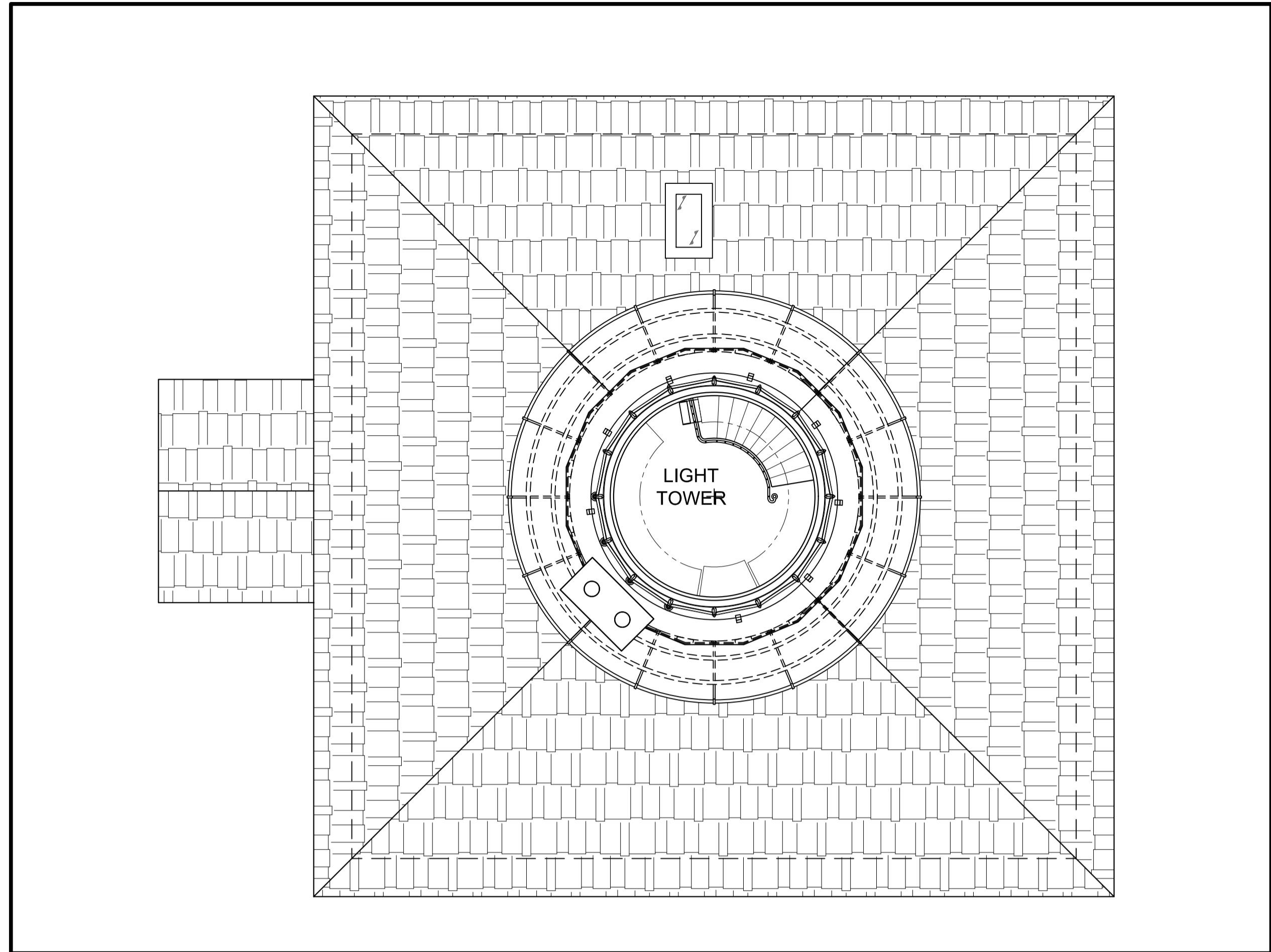
BUILDING ELEVATIONS EXISTING CONDITIONS

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date	DEC. 2016	
drawn	C. BAIRD	dessiné
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date		
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project number		no. du projet

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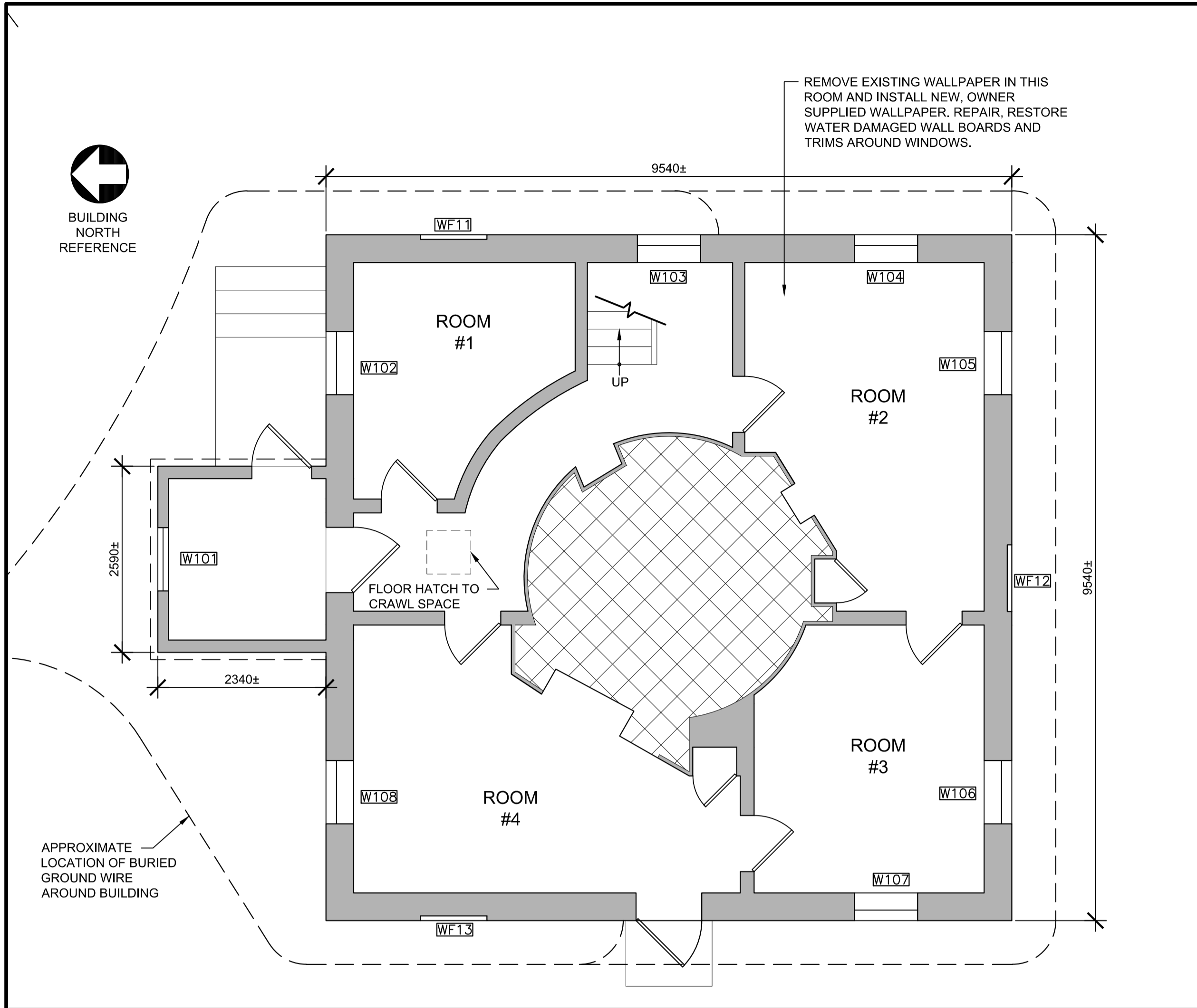
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A1



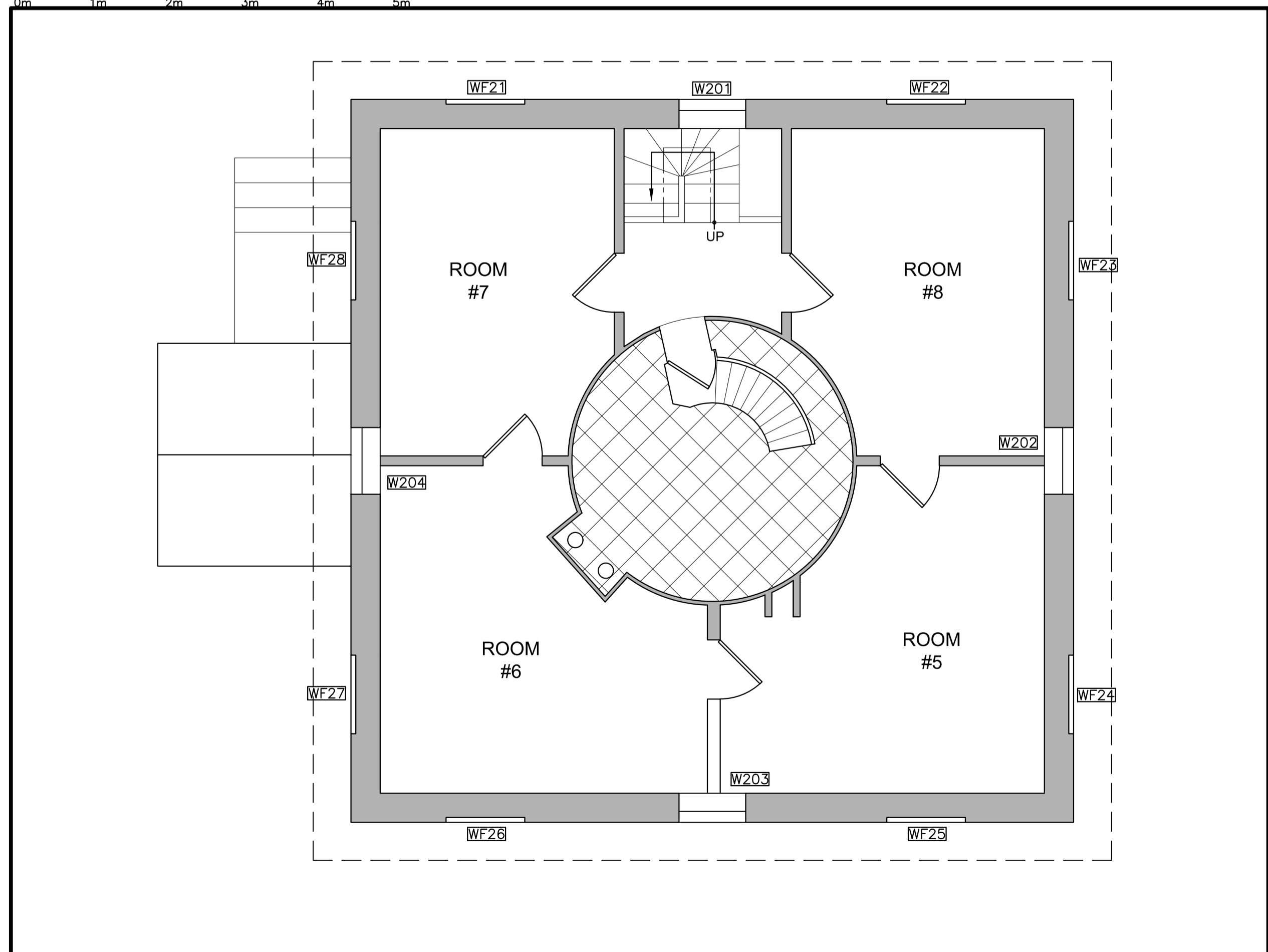
TOWER/ROOF PLAN - EXISTING CONDITIONS

4
A2



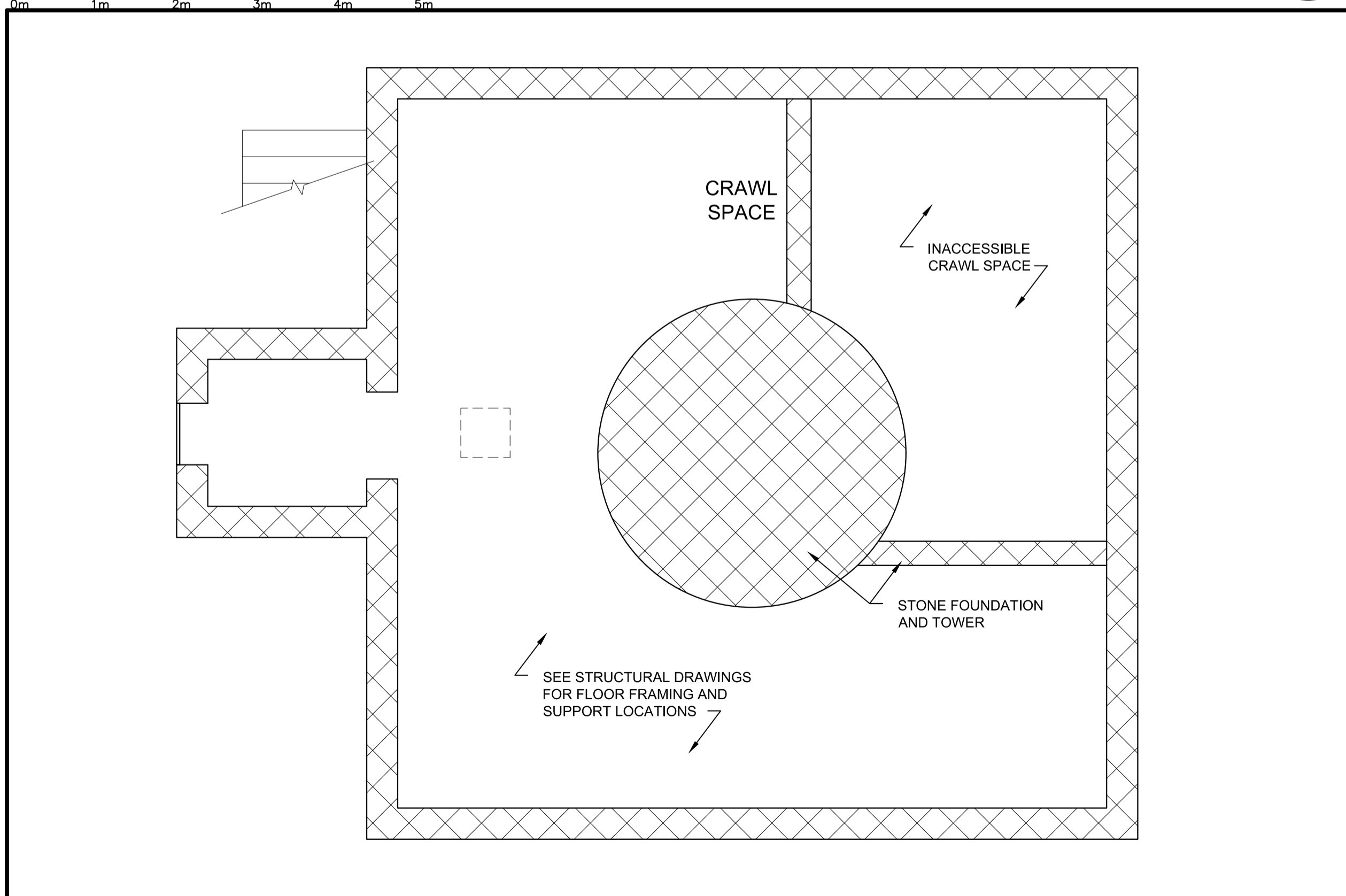
FIRST FLOOR PLAN - EXISTING CONDITIONS

2
A2



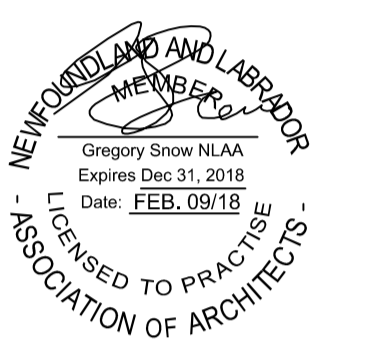
SECOND FLOOR PLAN - EXISTING CONDITIONS

3
A2



CRAWL SPACE PLAN - EXISTING CONDITIONS

1
A2



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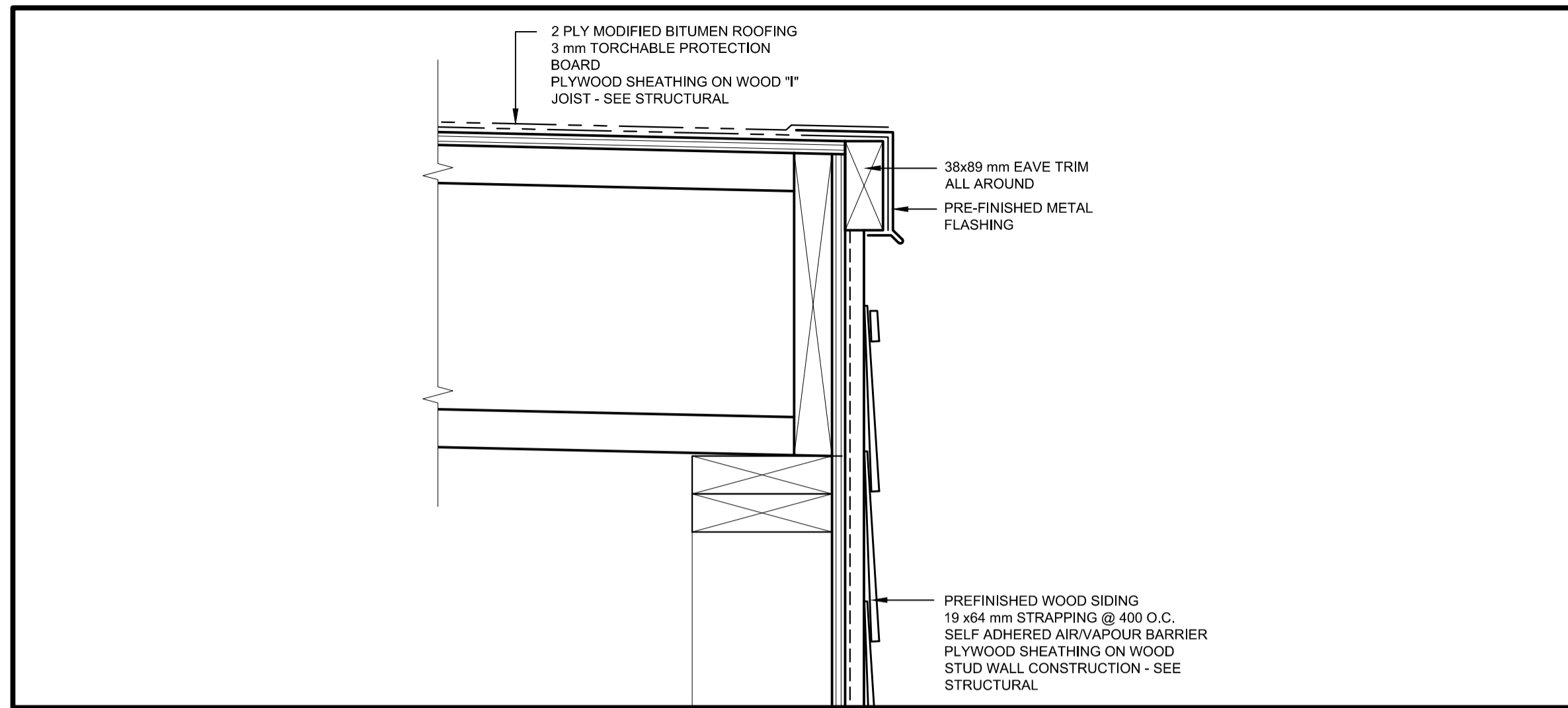
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RECAPITALISATION
ST. JOHN'S, NL

PLANS, EXISTING
CONDITIONS

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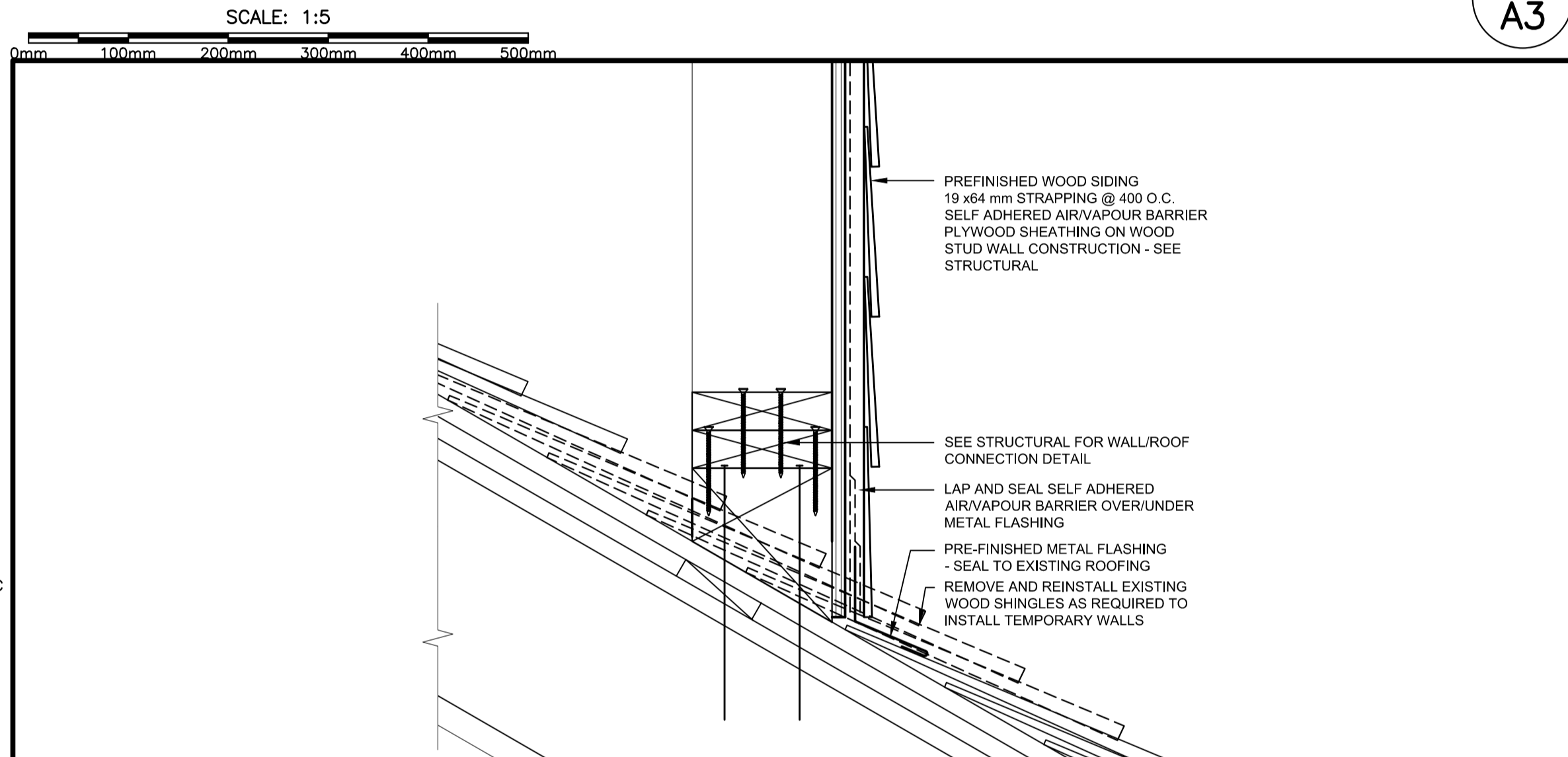
PWGSC Project Manager Administrateur de projets TPSCG
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drawing no. no. du dessin
A2



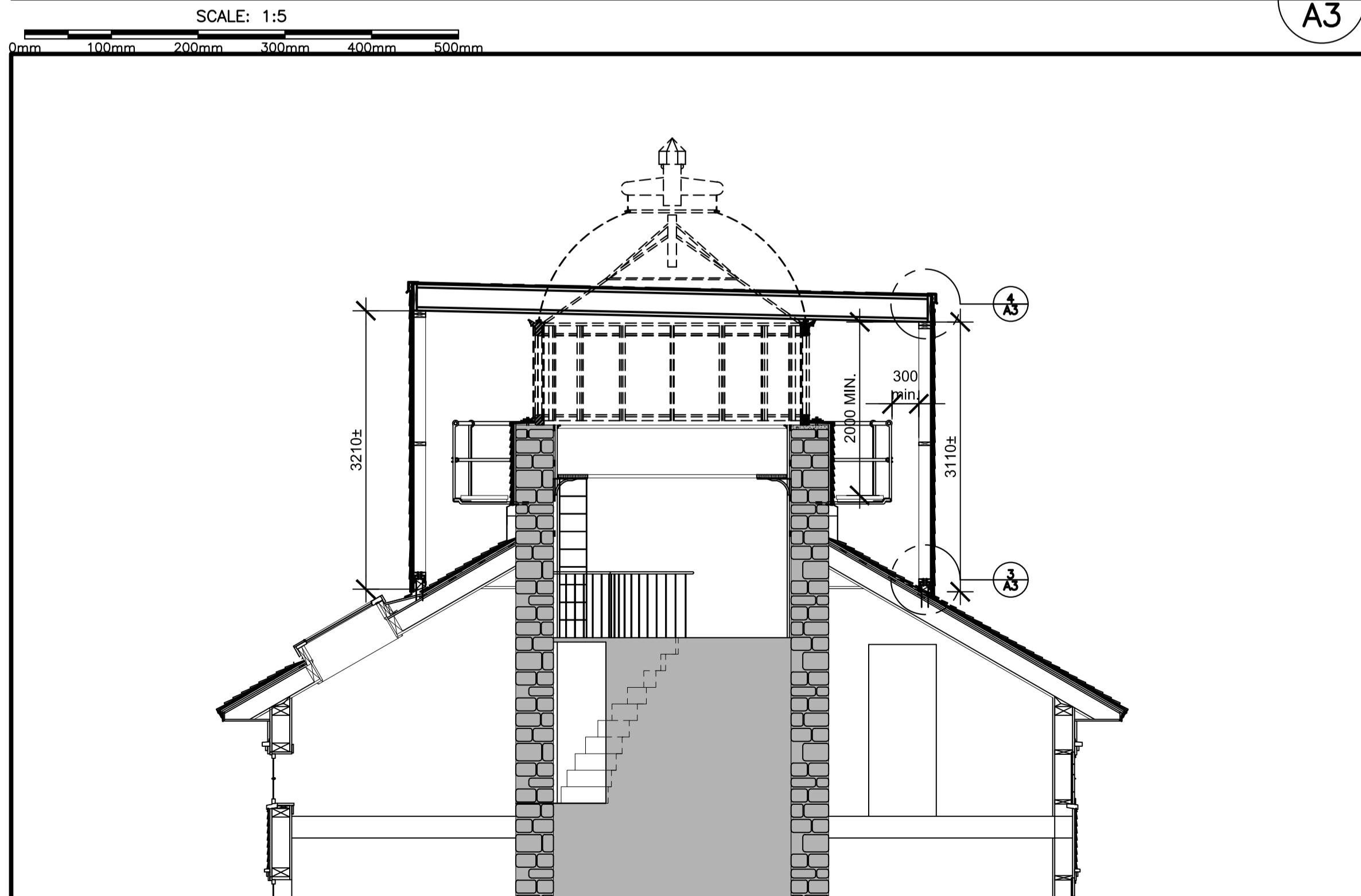
SHELTER WALL AT EAVE

4
A3



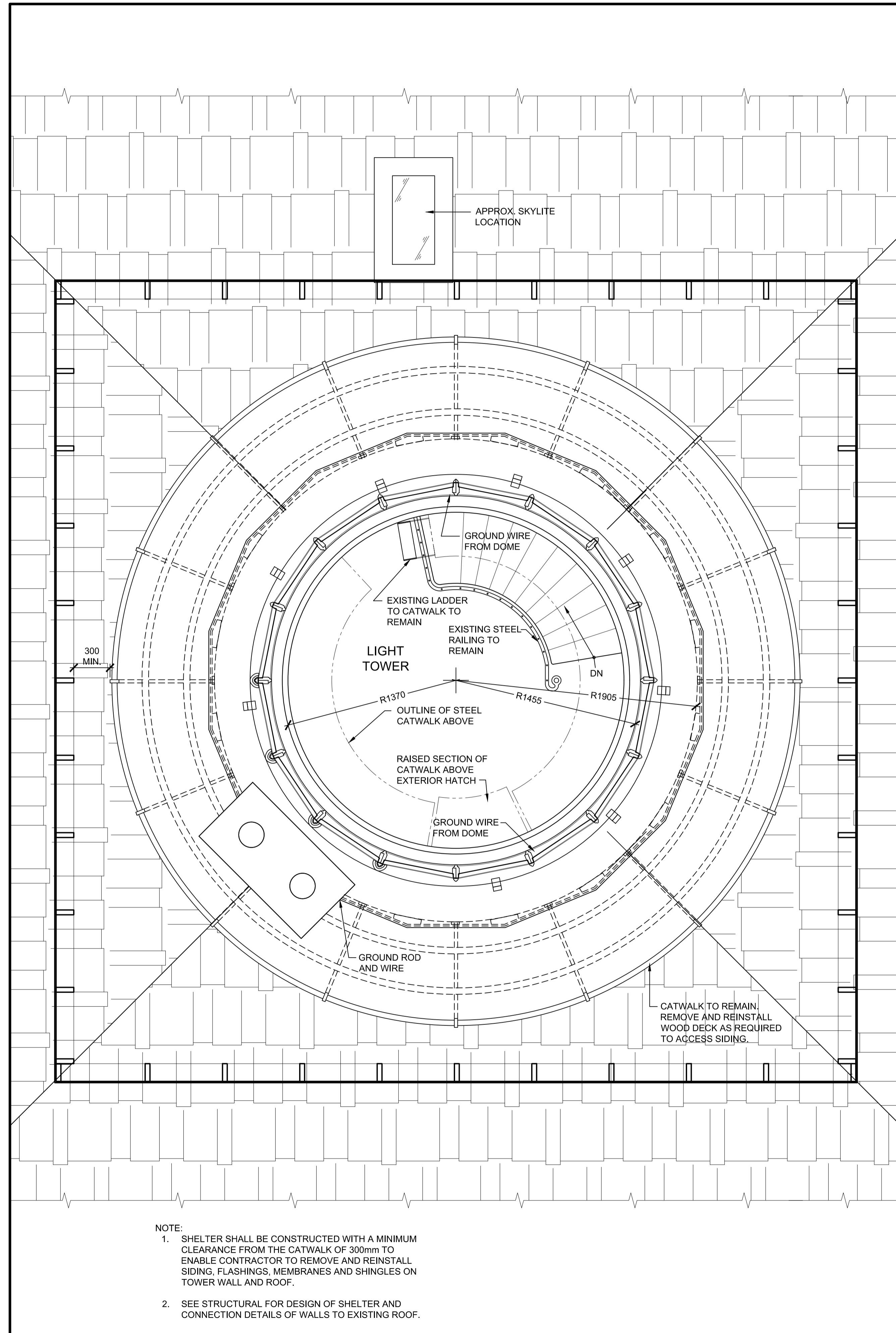
SHELTER WALL AT EXISTING ROOF

3
A3



TEMPORARY ENCLOSURE SECTION

2
A3



TEMPORARY ENCLOSURE/TOWER PLAN/ROOF PLAN

1
A3

- NOTE:
1. SHELTER SHALL BE CONSTRUCTED WITH A MINIMUM CLEARANCE FROM THE CATWALK OF 300mm TO ENABLE CONTRACTOR TO REMOVE AND REINSTALL SIDING, FLASHINGS, MEMBRANES AND SHINGLES ON TOWER WALL AND ROOF.
 2. SEE STRUCTURAL FOR DESIGN OF SHELTER AND CONNECTION DETAILS OF WALLS TO EXISTING ROOF.

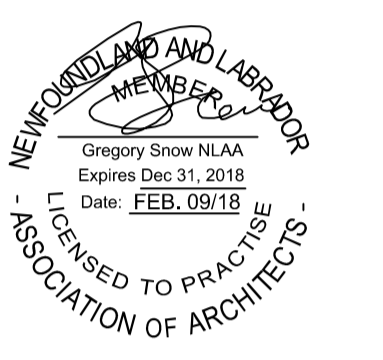
ARCHITECT:

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CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION

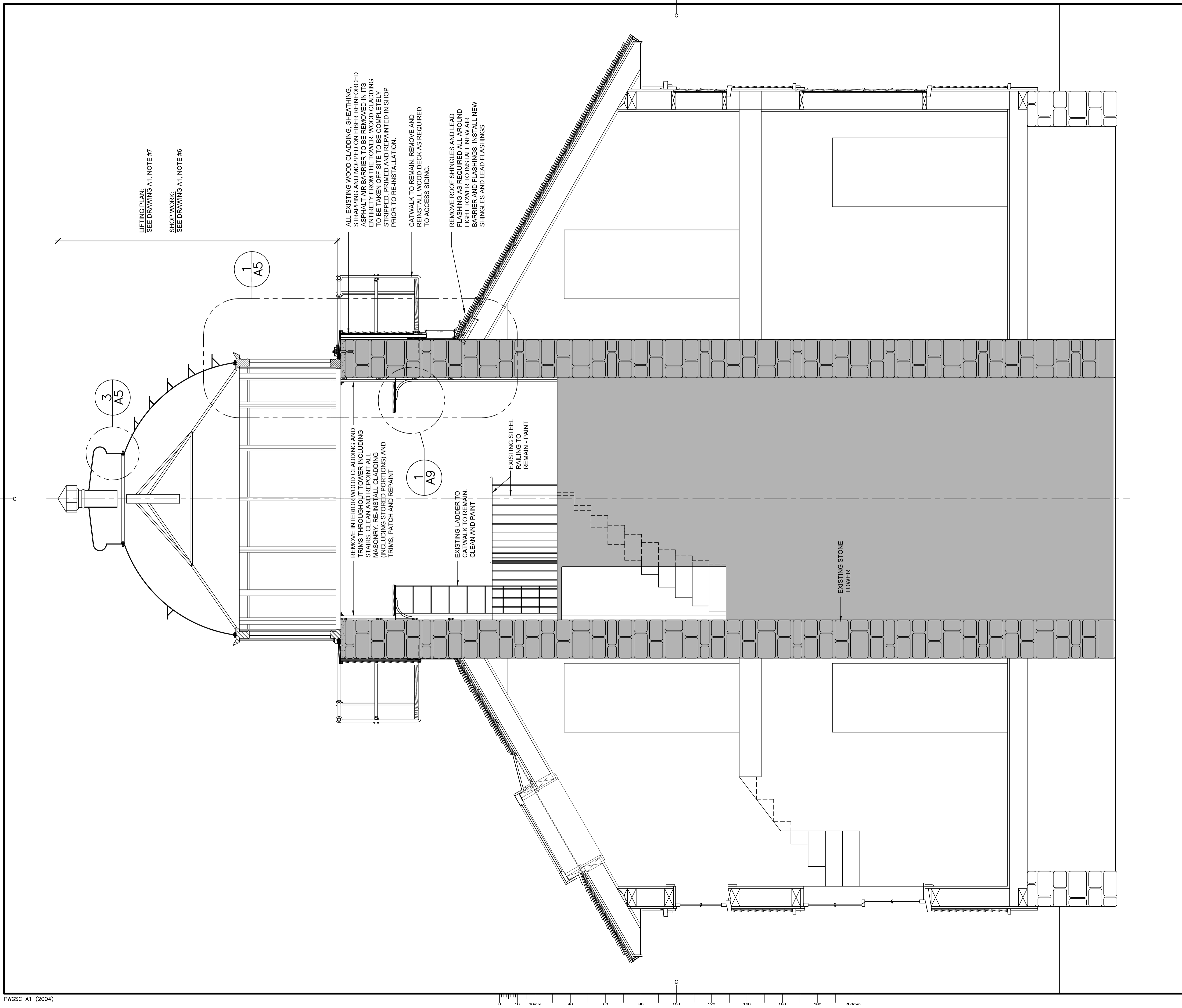
ST. JOHN'S, NL

TEMPORARY ENCLOSURE, TOWER PLAN, SECTION AND DETAILS

designed	G. SNOW	conçu
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drawing no. / no. du dessin: A3



LIFTING PLAN:
SEE DRAWING A1, NOTE #7

SHOP WORK:
SEE DRAWING A1, NOTE #6

REMOVE INTERIOR WOOD CLADDING AND TRIMS THROUGHOUT TOWER INCLUDING STAIRS. CLEAN AND REPOINT ALL MASONRY. RE-INSTALL CLADDING (INCLUDING STORED PORTIONS) AND TRIMS. PATCH AND REPAINT

REMOVE ROOF SHINGLES AND LEAD FLASHING AS REQUIRED ALL AROUND LIGHT TOWER TO INSTALL NEW AIR BARRIER AND FLASHINGS. INSTALL NEW SHINGLES AND LEAD FLASHINGS.

CATWALK TO REMAIN. REMOVE AND REINSTALL WOOD DECK AS REQUIRED TO ACCESS SIDING.

EXISTING LADDER TO REMAIN. CLEAN AND PAINT

EXISTING STEEL RAILING TO REMAIN - PAINT

EXISTING STONE TOWER

1
A4

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CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION

ST. JOHN'S, NL

drawing dessin

BUILDING SECTION

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date	DEC. 2016	
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Tender		Soumission

PWGC Project Manager Administrateur de projets TPSCG

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PCAN582

drawing no. no. du dessin

A4

BUILDING SECTION

SCALE : 1:20

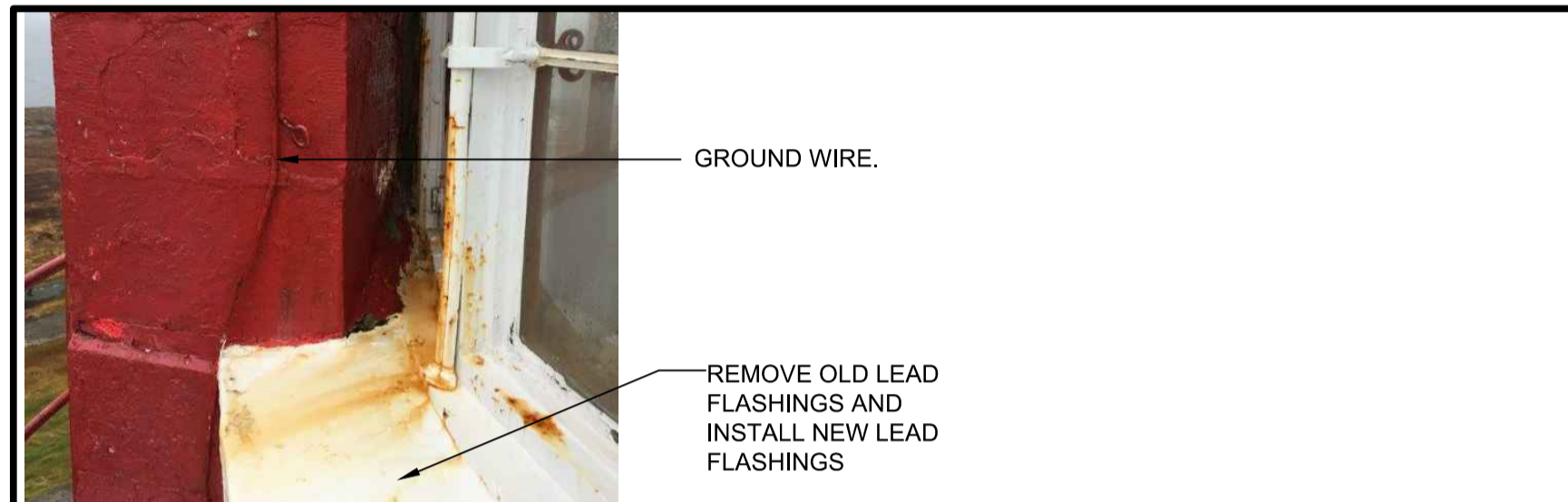




DOMES GLAZING HEAD AT CHIMNEY

SCALE: N.T.S.

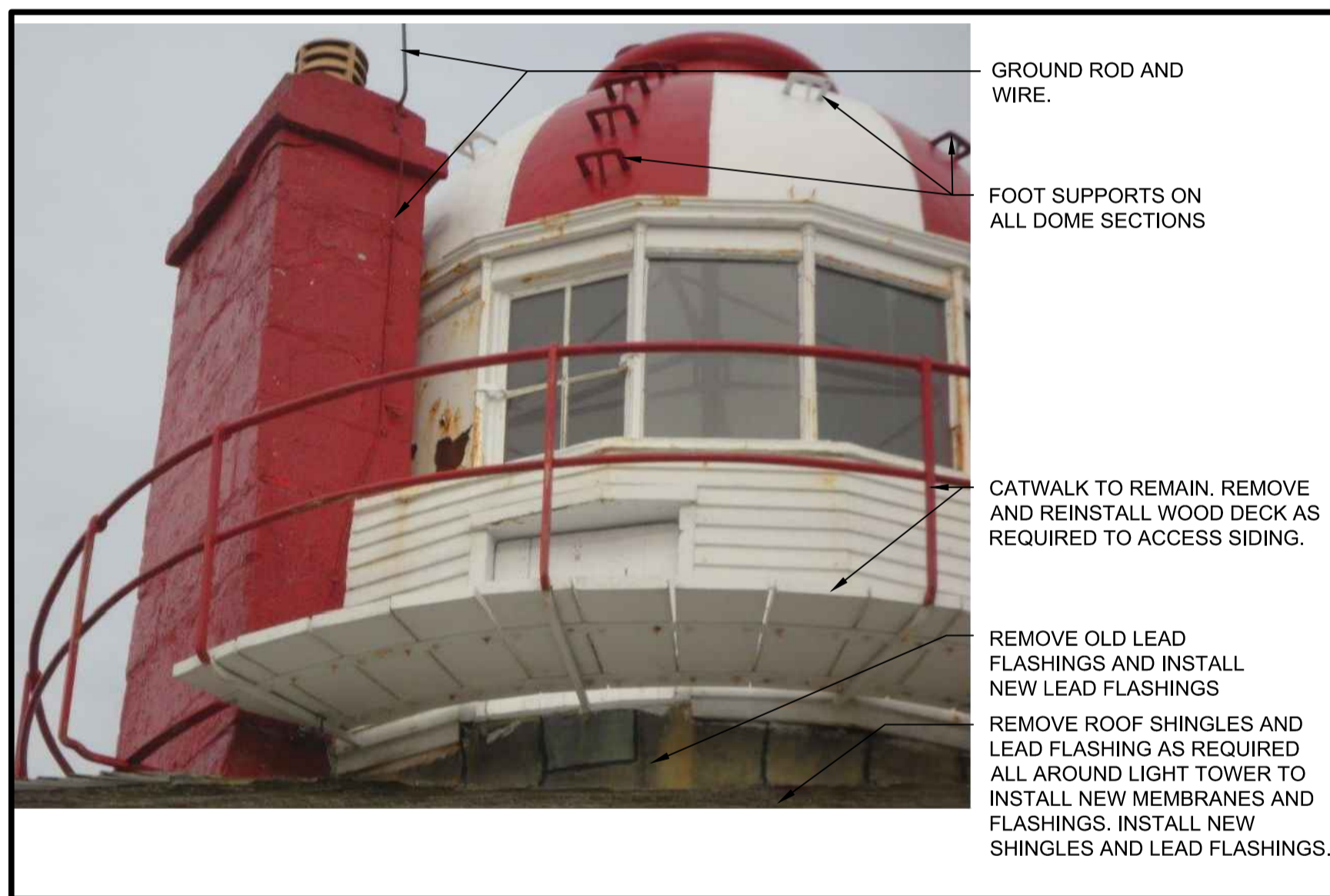
**C
A5**



DOMES GLAZING BASE AT CHIMNEY

SCALE: N.T.S.

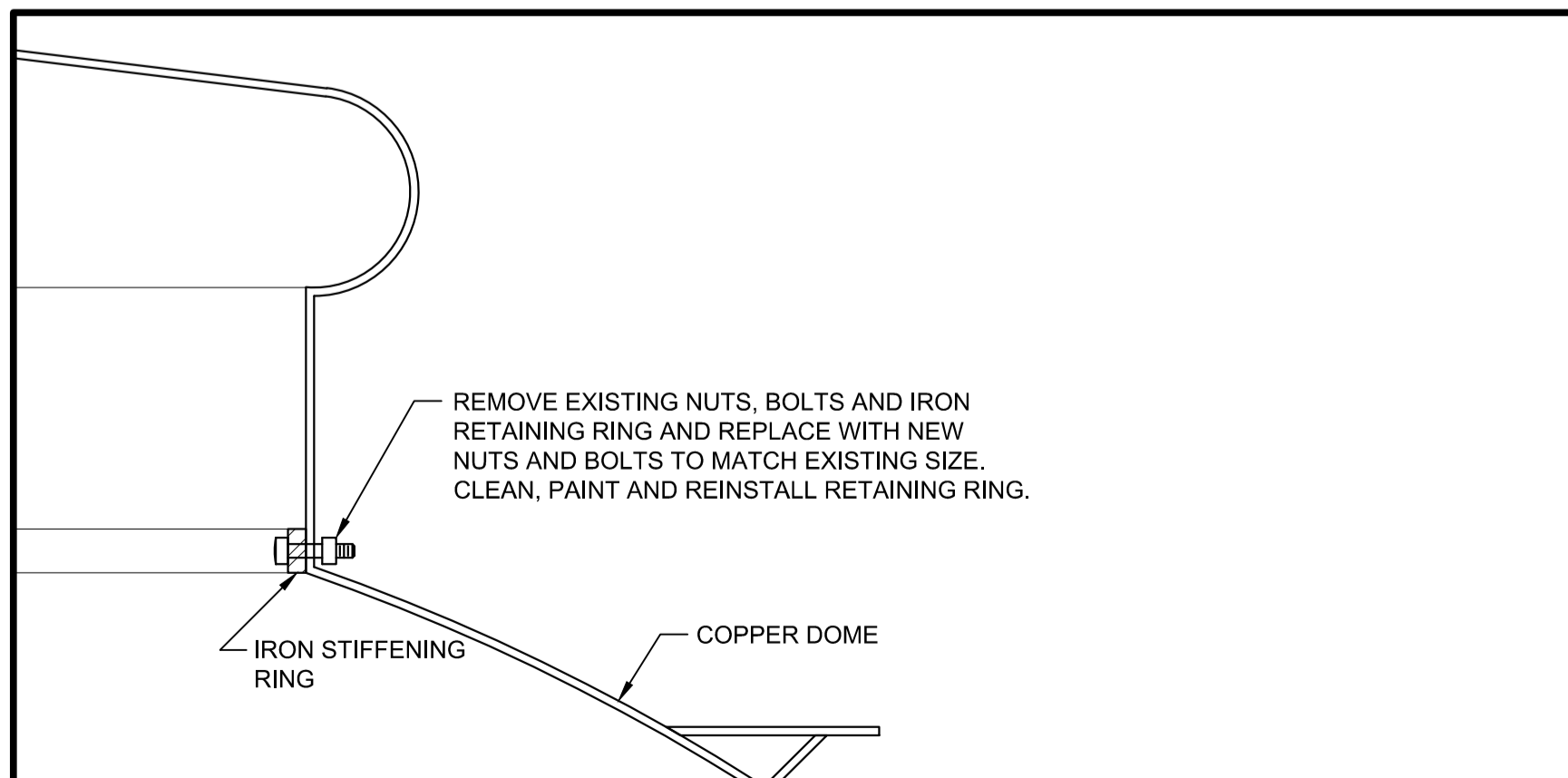
**B
A5**



DOMES ELEVATION AT ROOF

SCALE: N.T.S.

**A
A5**

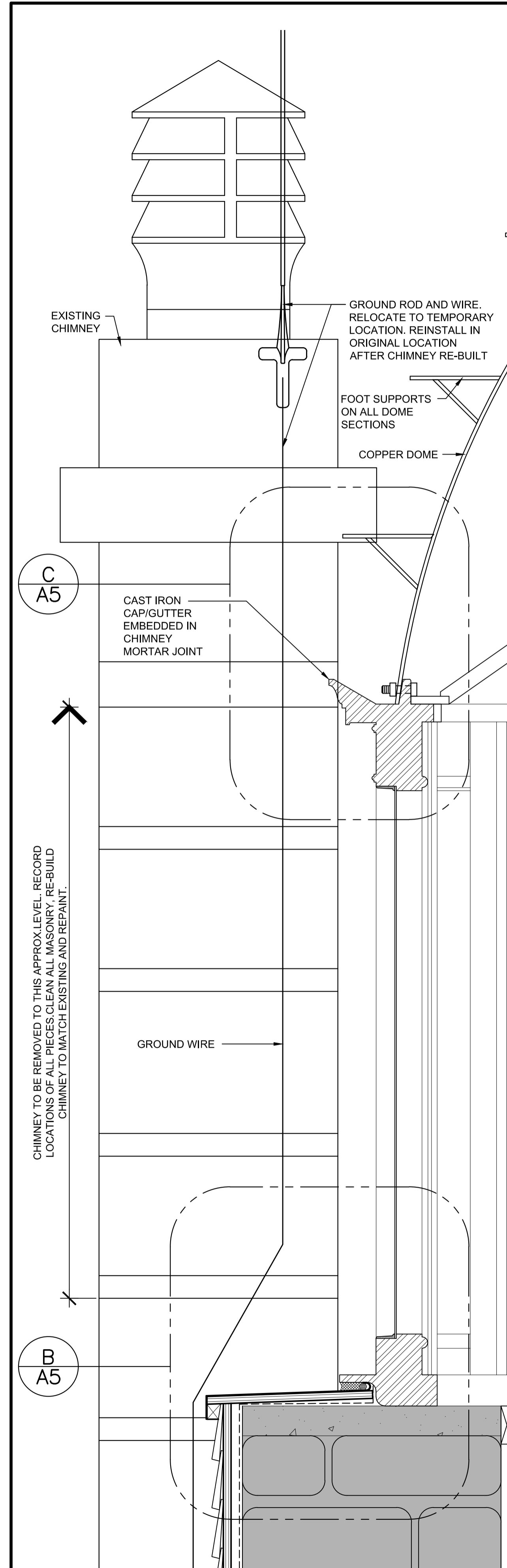


DOMES SECTION

SCALE: 1:5



**3
A5**

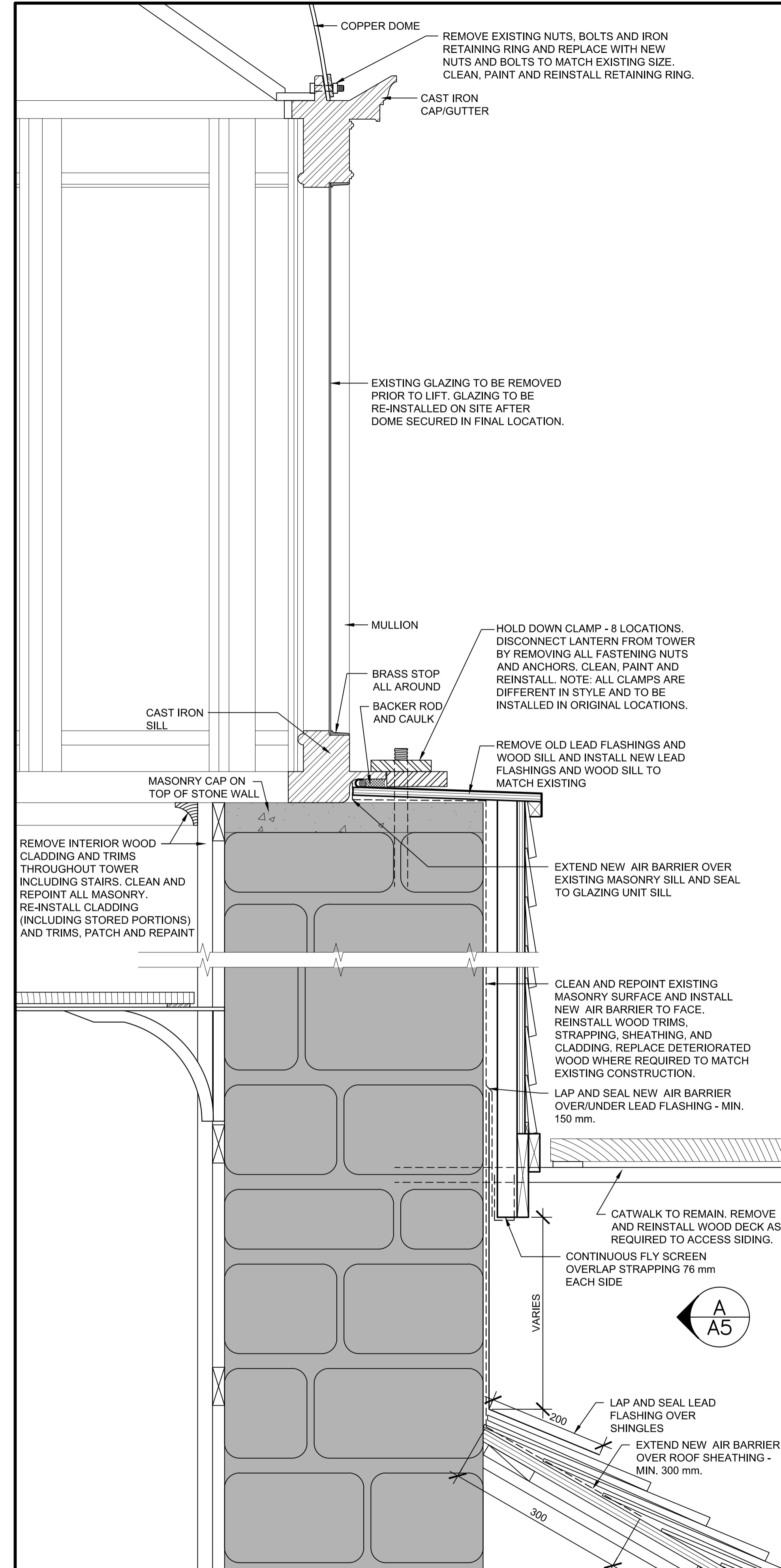


DOMES SECTION AT CHIMNEY - EXIST. COND.

SCALE: 1:5

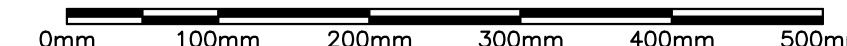


**2
A5**



DOMES SECTION

SCALE: 1:5



**1
A5**



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CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION

ST. JOHN'S, NL

DOMES DETAILS

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A5

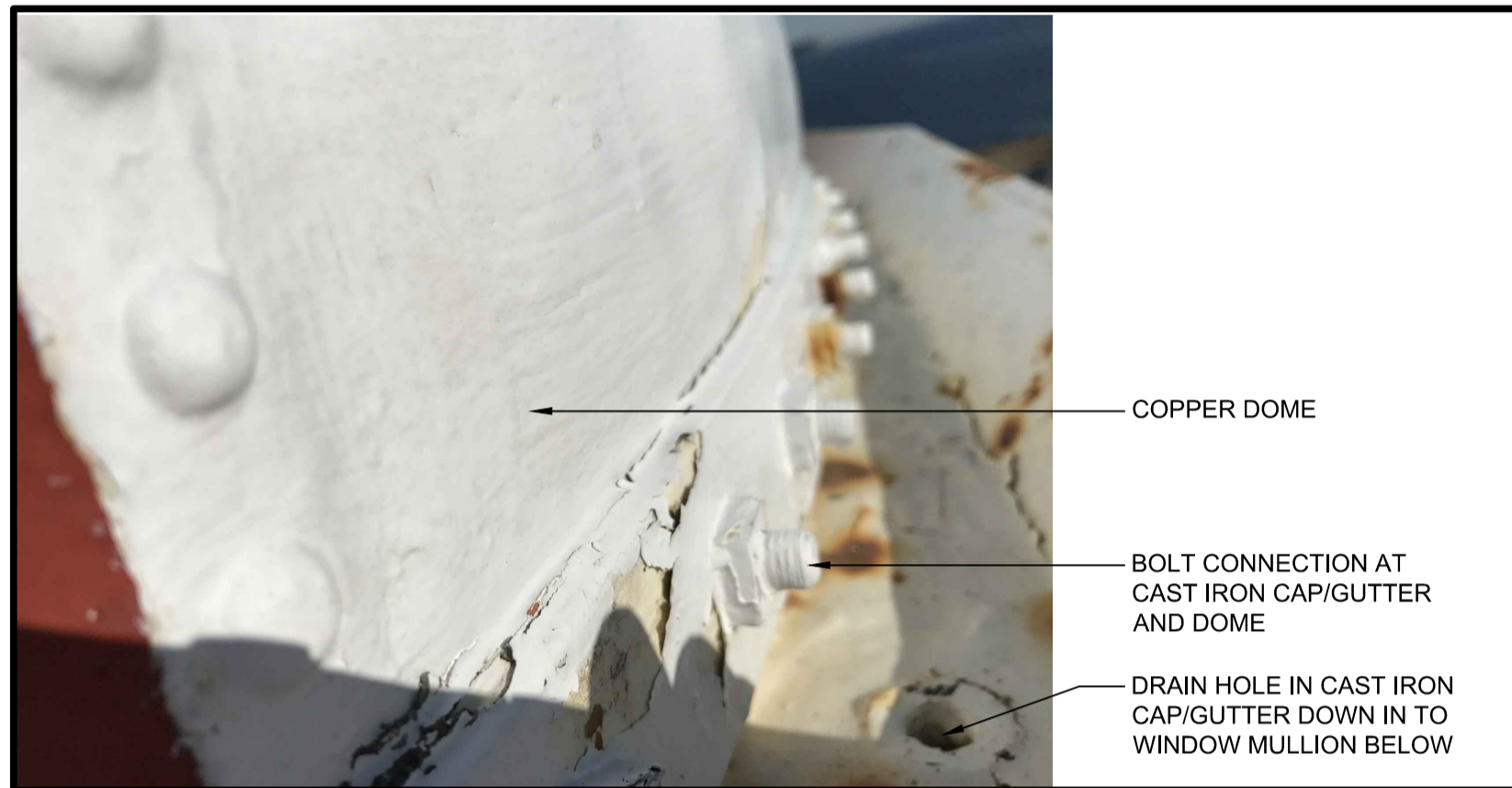


CAST IRON MULLION
BRASS STRIPS w/ FASTENERS

WINDOW - EXTERIOR AT SILL/MULLION

SCALE: N.T.S.

H
A6



COPPER DOME
BOLT CONNECTION AT CAST IRON CAP/GUTTER AND DOME
DRAIN HOLE IN CAST IRON CAP/GUTTER DOWN IN TO WINDOW MULLION BELOW

DOME/GUTTER - EXTERIOR BOLT CONNECTION

SCALE: N.T.S.

G
A6

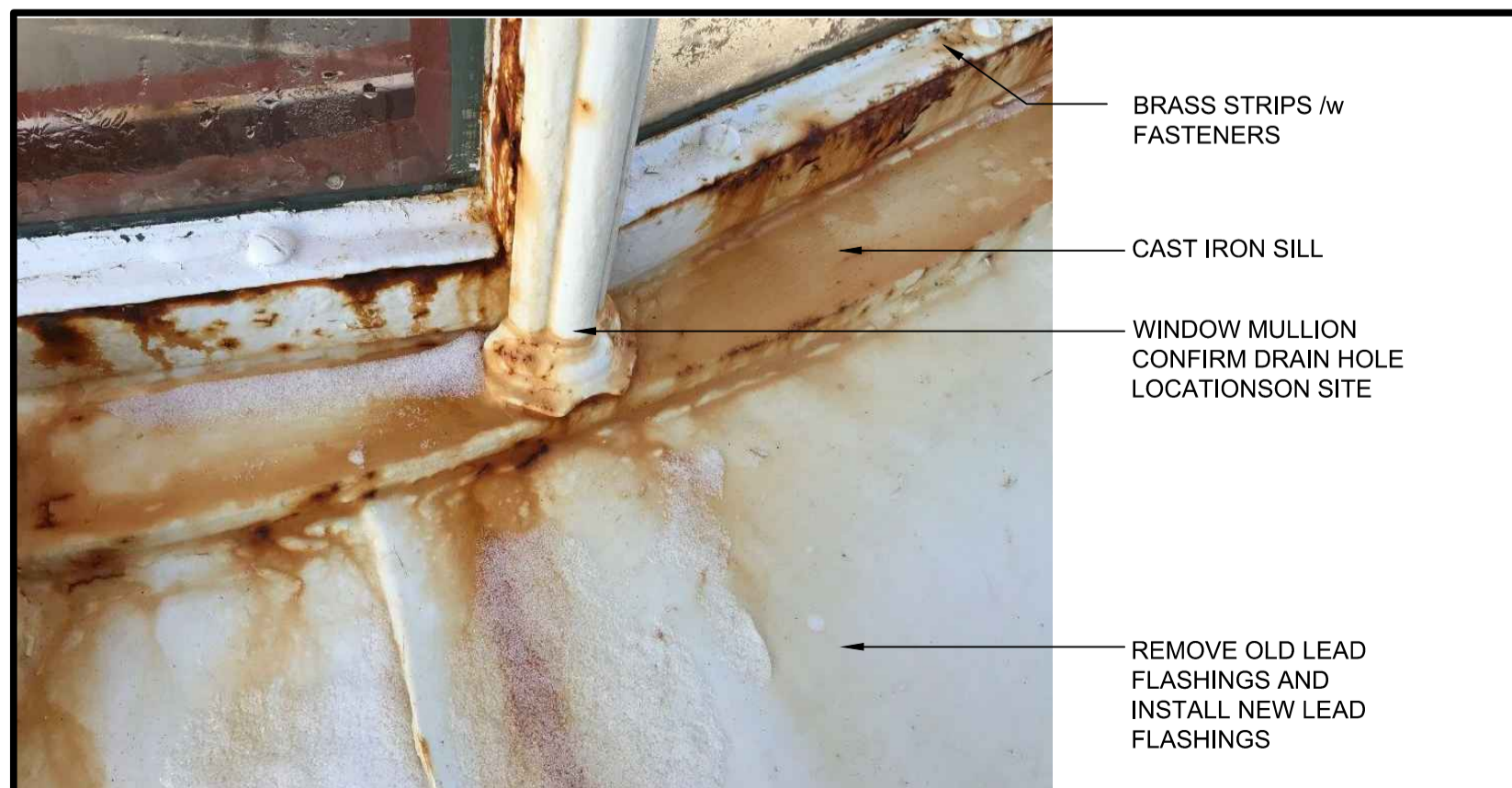


CAST IRON CAP/GUTTER
BRASS STRIPS w/ FASTENERS
CAST IRON MULLION

DOME - EXTERIOR GLAZING WINDOW HEAD

SCALE: N.T.S.

F
A6

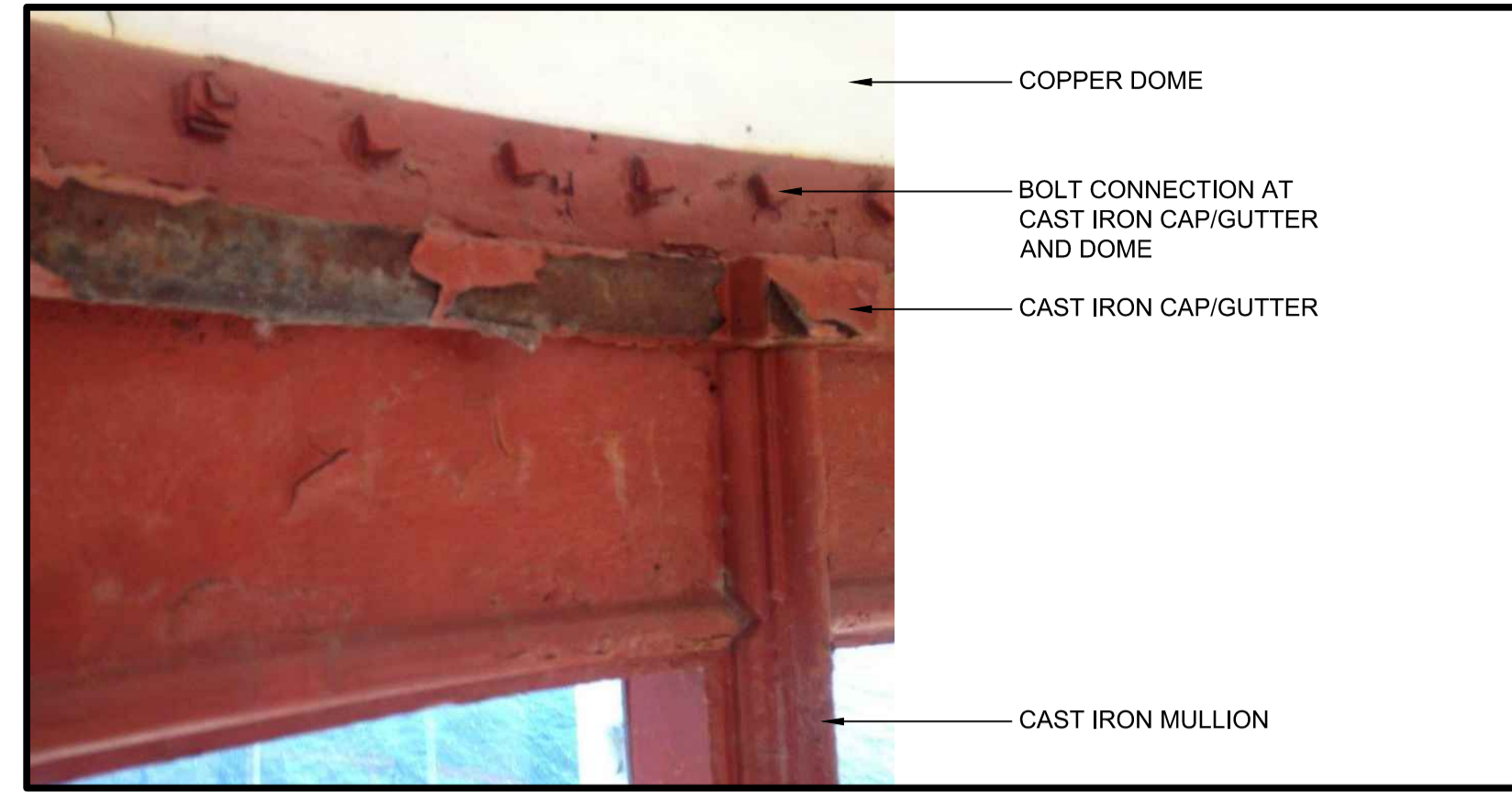


BRASS STRIPS w/ FASTENERS
CAST IRON SILL
WINDOW MULLION CONFIRM DRAIN HOLE LOCATION ON SITE
REMOVE OLD LEAD FLASHINGS AND INSTALL NEW LEAD FLASHINGS

DOME - EXTERIOR GLAZING WINDOW SILL

SCALE: N.T.S.

E
A6



COPPER DOME
BOLT CONNECTION AT CAST IRON CAP/GUTTER AND DOME
CAST IRON CAP/GUTTER
CAST IRON MULLION

DOME - INTERIOR GLAZING HEAD AT BOLT CONNECTION

SCALE: N.T.S.

D
A6

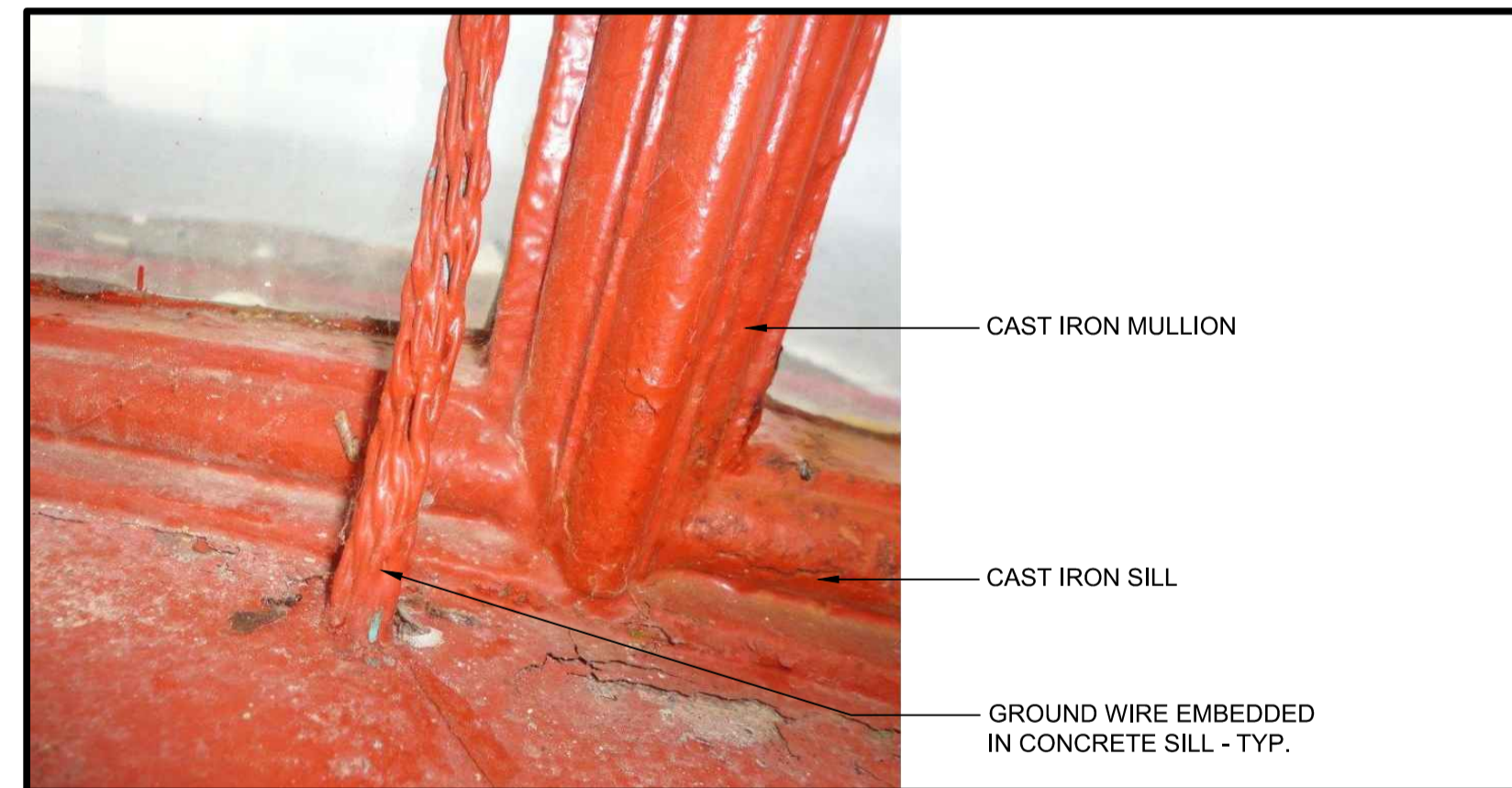


COPPER DOME
GROUND WIRE CONNECTION TO DOME - TYP.
CAST IRON CAP/GUTTER
CAST IRON MULLION

DOME - INTERIOR GLAZING HEAD AT GROUND WIRE

SCALE: N.T.S.

C
A6



CAST IRON MULLION
CAST IRON SILL
GROUND WIRE EMBEDDED IN CONCRETE SILL - TYP.

DOME - INTERIOR GLAZING SILL AT GROUND WIRE

SCALE: N.T.S.

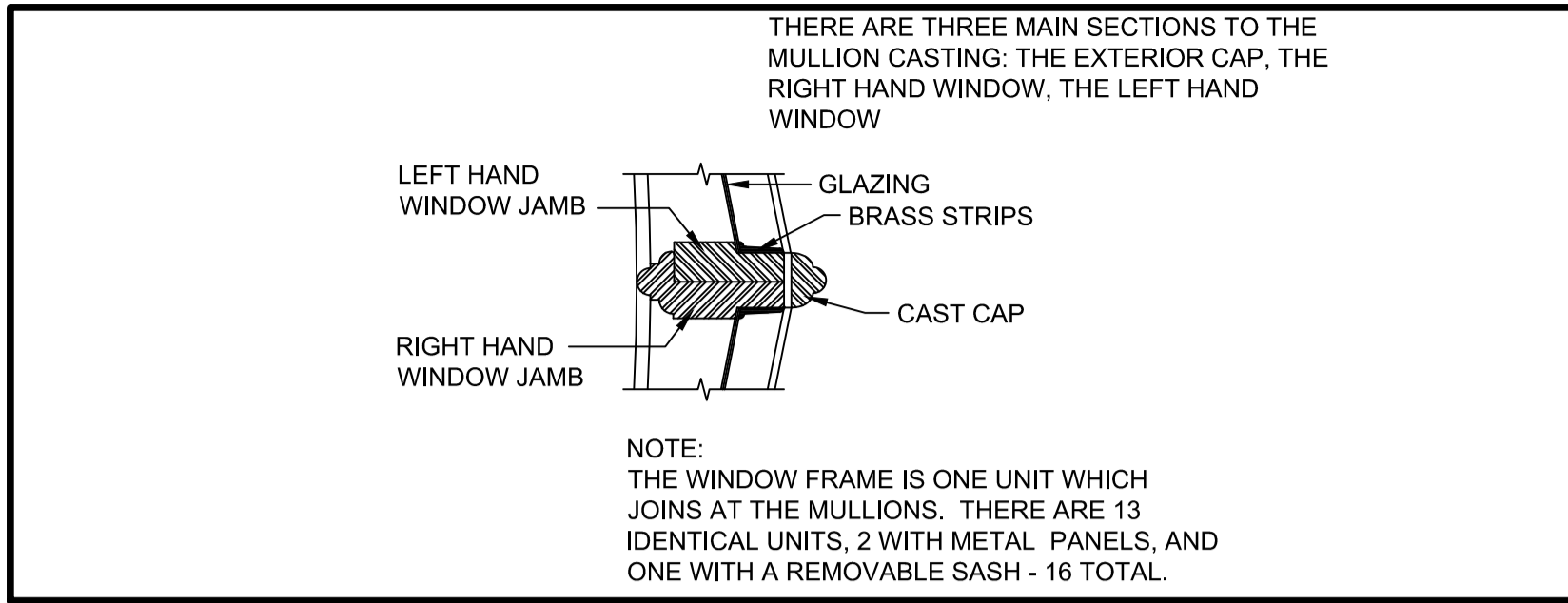
B
A6



HOLD DOWN CLAMP - 8 LOCATIONS. DISCONNECT LANTERN FROM TOWER BY REMOVING ALL FASTENING BOLTS AND ANCHORS. NOTE: ALL CLAMPS ARE DIFFERENT IN STYLE.
CAST IRON SILL
WINDOW MULLION

HOLD DOWN CLAMP AT DOME - TYP.

A
A6

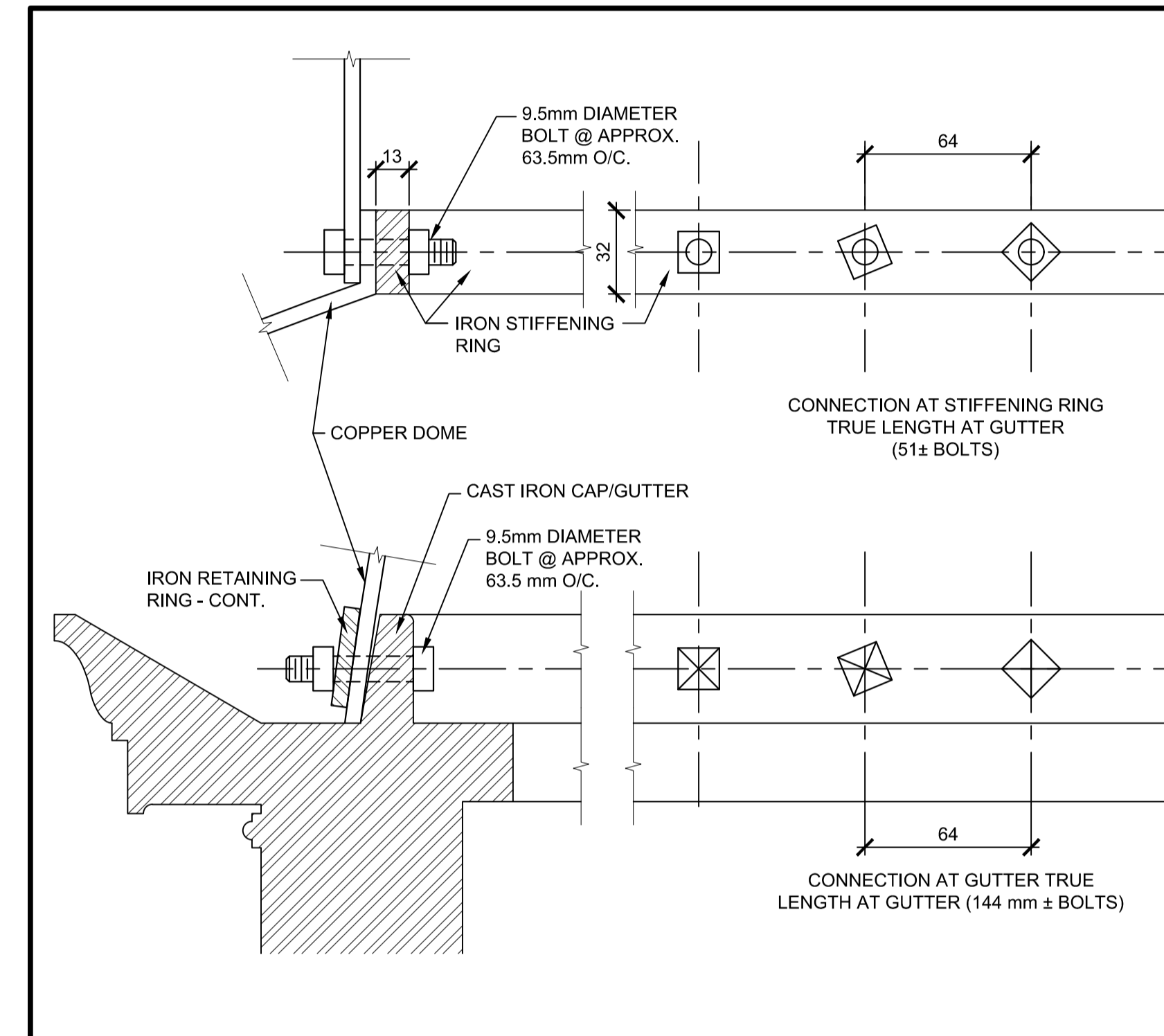


THERE ARE THREE MAIN SECTIONS TO THE MULLION CASTING: THE EXTERIOR CAP, THE RIGHT HAND WINDOW, THE LEFT HAND WINDOW
LEFT HAND WINDOW JAMB
GLAZING
BRASS STRIPS
CAST CAP
RIGHT HAND WINDOW JAMB
NOTE: THE WINDOW FRAME IS ONE UNIT WHICH JOINS AT THE MULLIONS. THERE ARE 13 IDENTICAL UNITS, 2 WITH METAL PANELS, AND ONE WITH A REMOVABLE SASH - 16 TOTAL.

DOME WINDOW MULLION SECTION

SCALE: N.T.S.

3
A6

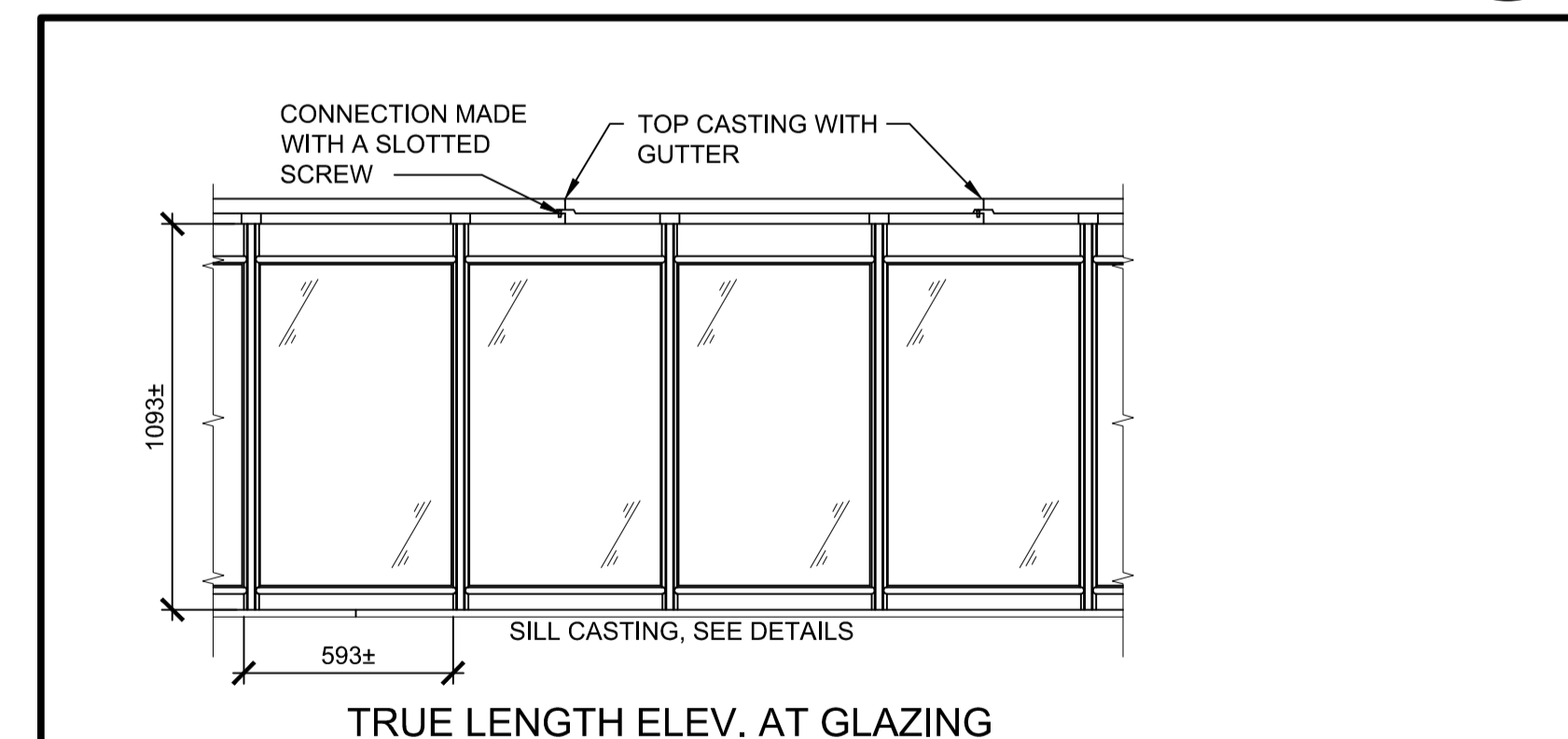


9.5mm DIAMETER BOLT @ APPROX. 63.5mm O/C.
IRON STIFFENING RING
COPPER DOME
CONNECTION AT STIFFENING RING TRUE LENGTH AT GUTTER (51± BOLTS)
IRON RETAINING RING - CONT.
CAST IRON CAP/GUTTER
9.5mm DIAMETER BOLT @ APPROX. 63.5 mm O/C.
CONNECTION AT GUTTER TRUE LENGTH AT GUTTER (144 mm ± BOLTS)

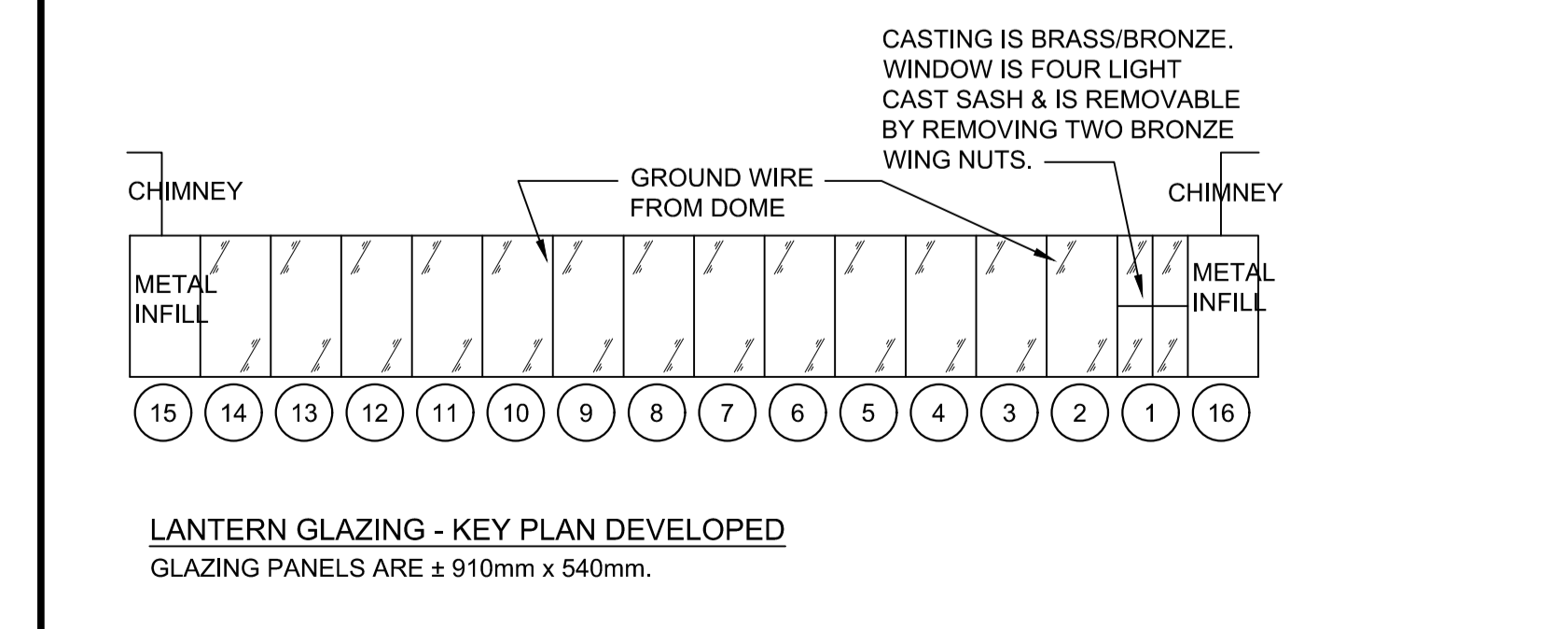
DOME CONNECTION DETAIL - BOLT PATTERN

SCALE: N.T.S.

2
A6



CONNECTION MADE WITH A SLOTTED SCREW
TOP CASTING WITH GUTTER
1093±
593±
SILL CASTING, SEE DETAILS
TRUE LENGTH ELEV. AT GLAZING



CHIMNEY
METAL INFILL
GROUND WIRE FROM DOME
CASTING IS BRASS/BRONZE. WINDOW IS FOUR LIGHT CAST SASH & IS REMOVABLE BY REMOVING TWO BRONZE WING NUTS.
CHIMNEY
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 16
LANTERN GLAZING - KEY PLAN DEVELOPED
GLAZING PANELS ARE ± 910mm x 540mm.

DOME GLAZING ELEVATION

SCALE: N.T.S.

1
A6

SHOP NOTES:

- SHOP WORK: LANTERN AND DOME TO BE COMPLETELY DISASSEMBLED. COMPONENTS CAREFULLY RECORDED, ALL FINISHES REMOVED, RE-PAINTED AND REASSEMBLED. RESTORE ALL COMPONENTS WHERE POSSIBLE. REPLACE MISSING COMPONENTS WHERE REQUIRED TO MATCH EXISTING.
- GUTTER AND MULLION DRAINS TO BE CLEANED OF ALL DEBRIS AND FULLY FUNCTIONING.

0	ISSUED FOR TENDER	FEB.9 2018
revisions		date
project		project

CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION

ST. JOHN'S, NL

drawing design

DOME GLAZING UNIT SHOP DEMO/RESTORATION DETAILS

designed G. SNOW conçu

date DEC. 2016

drawn C. BAIRD dessiné

date DEC. 2016

approved approuvé

date

Tender Soumission

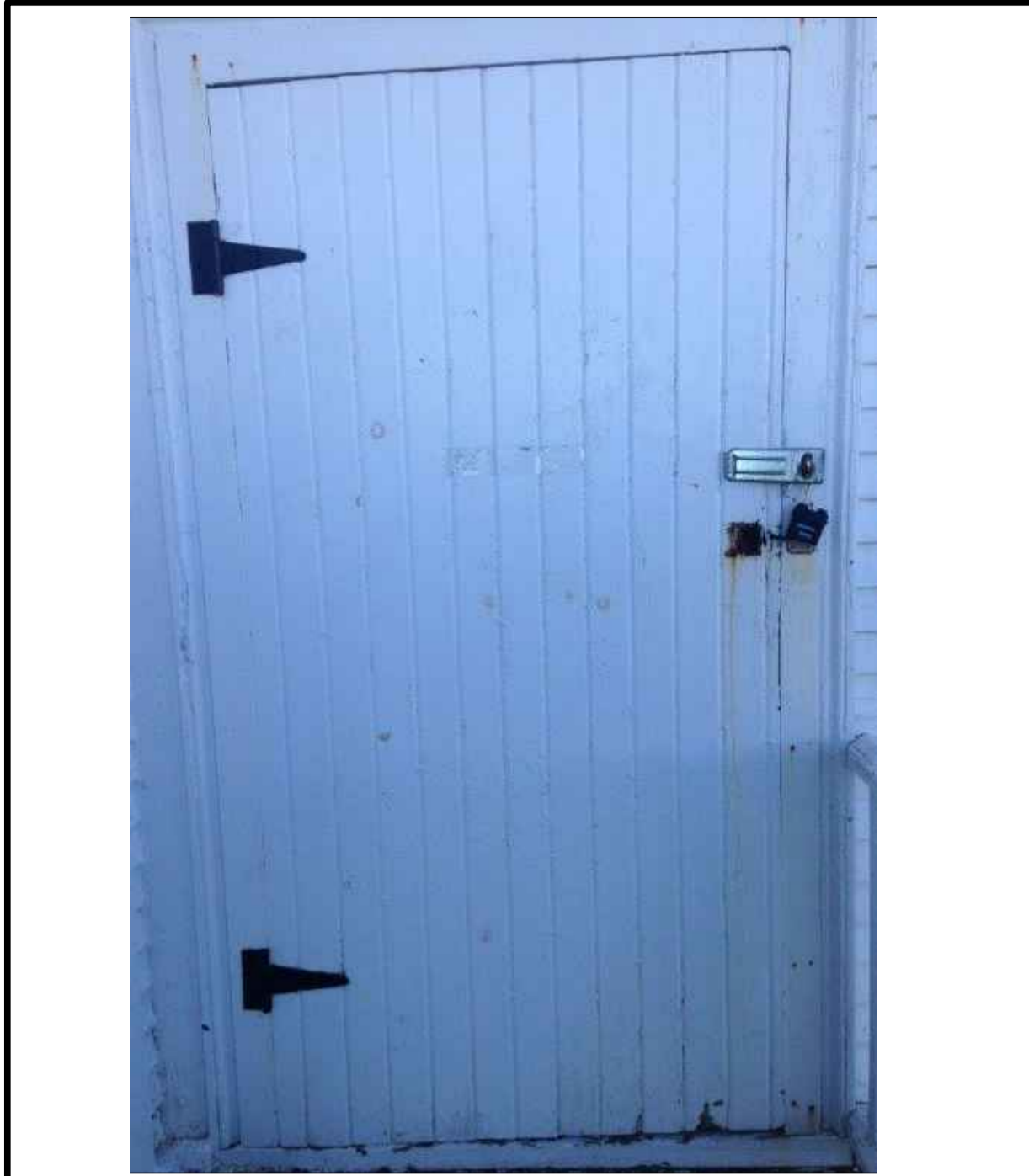
PWGC Project Manager Administrateur de projets TPSCG

project number no. du projet

PCAN582

drawing no. no. du dessin

A6



DOOR 1

SCALE: N.T.S.

E
A7



WINDOW TYPE 3

SCALE: N.T.S.

C
A7



FALSE WINDOW TYPE 2

SCALE: N.T.S.

E
A7



WINDOW TYPE 2

SCALE: N.T.S.

B
A7



FALSE WINDOW TYPE 1

SCALE: N.T.S.

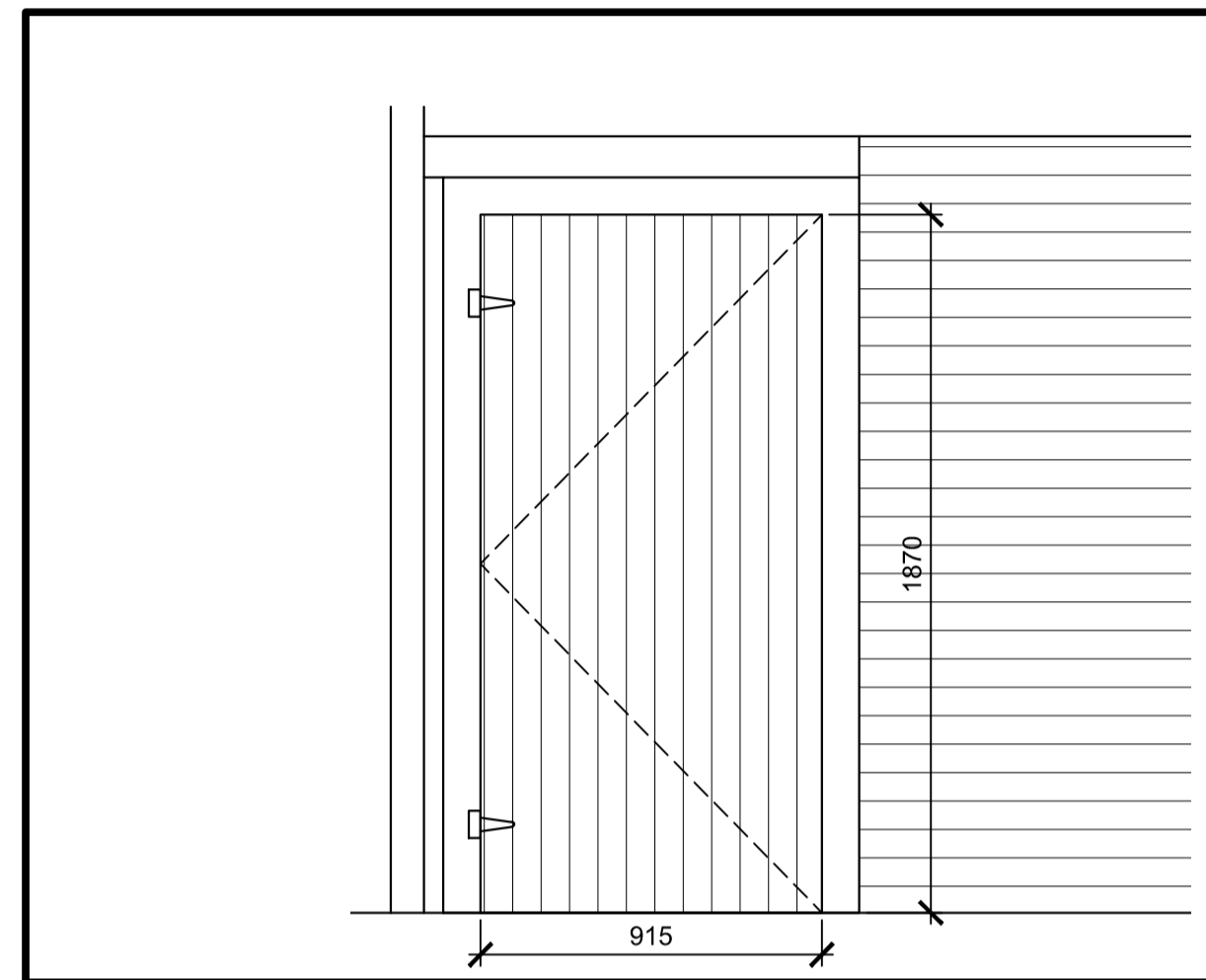
D
A7



WINDOW TYPE 1

SCALE: N.T.S.

A
A7

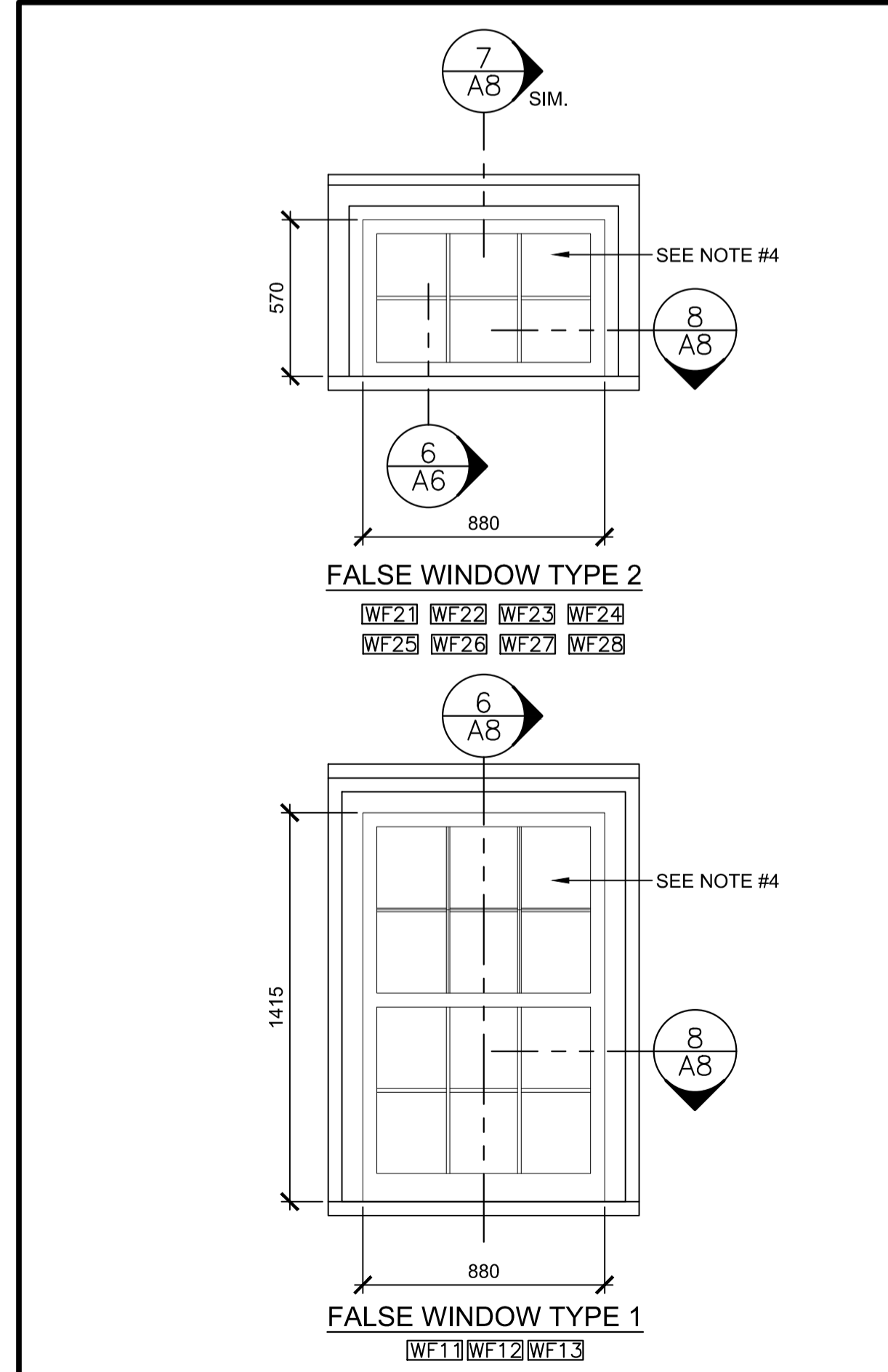


DOOR ELEVATION

SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm

3
A7



FALSE WINDOW ELEVATIONS

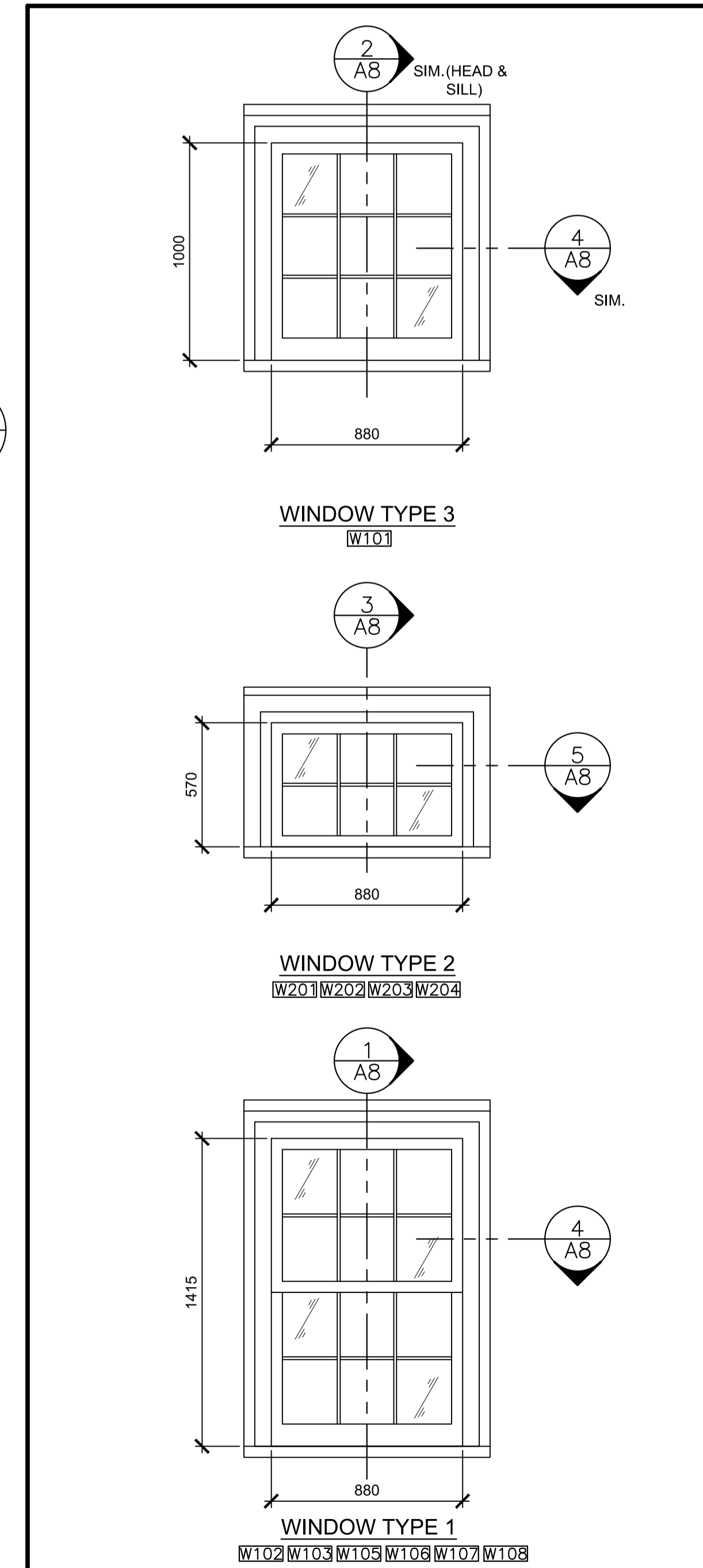
SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm

2
A7

GENERAL NOTES:

1. ALL WINDOWS AND COMPONENTS TO BE CAREFULLY REMOVED, RESTORED AND REINSTALLED. DETERIORATED WOOD IN WINDOWS TO BE REPLACED TO MATCH EXISTING - SEE UNIT PRICE IN SPEC. REPAIR ALL ADJACENT SURFACES TO LIKE NEW CONDITION.
2. ALL FALSE WINDOW COMPONENTS TO BE CAREFULLY REMOVED. NEW FALSE WINDOWS COMPONENTS TO BE FABRICATED TO MATCH EXISTING ADJACENT WINDOW COMPONENTS - SEE UNIT PRICE IN SPEC. REPAIR ALL ADJACENT SURFACES TO LIKE NEW CONDITION.
3. WINDOW, FALSE WINDOW AND DETAIL SIZES INDICATED ARE APPROXIMATE AND REQUIRE SITE VERIFICATION.
4. FALSE WINDOW BACKGROUND TO BE PAINTED, COLOUR TO BE DETERMINED BY OWNER AND ARCHITECT. FOUR PAINTED MOCK-UPS ARE TO BE SUBMITTED TO OWNER AND ARCHITECT FOR REVIEW AND APPROVAL.



WINDOW ELEVATIONS

SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm

1
A7



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revisions		date

project CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION ST. JOHN'S, NL

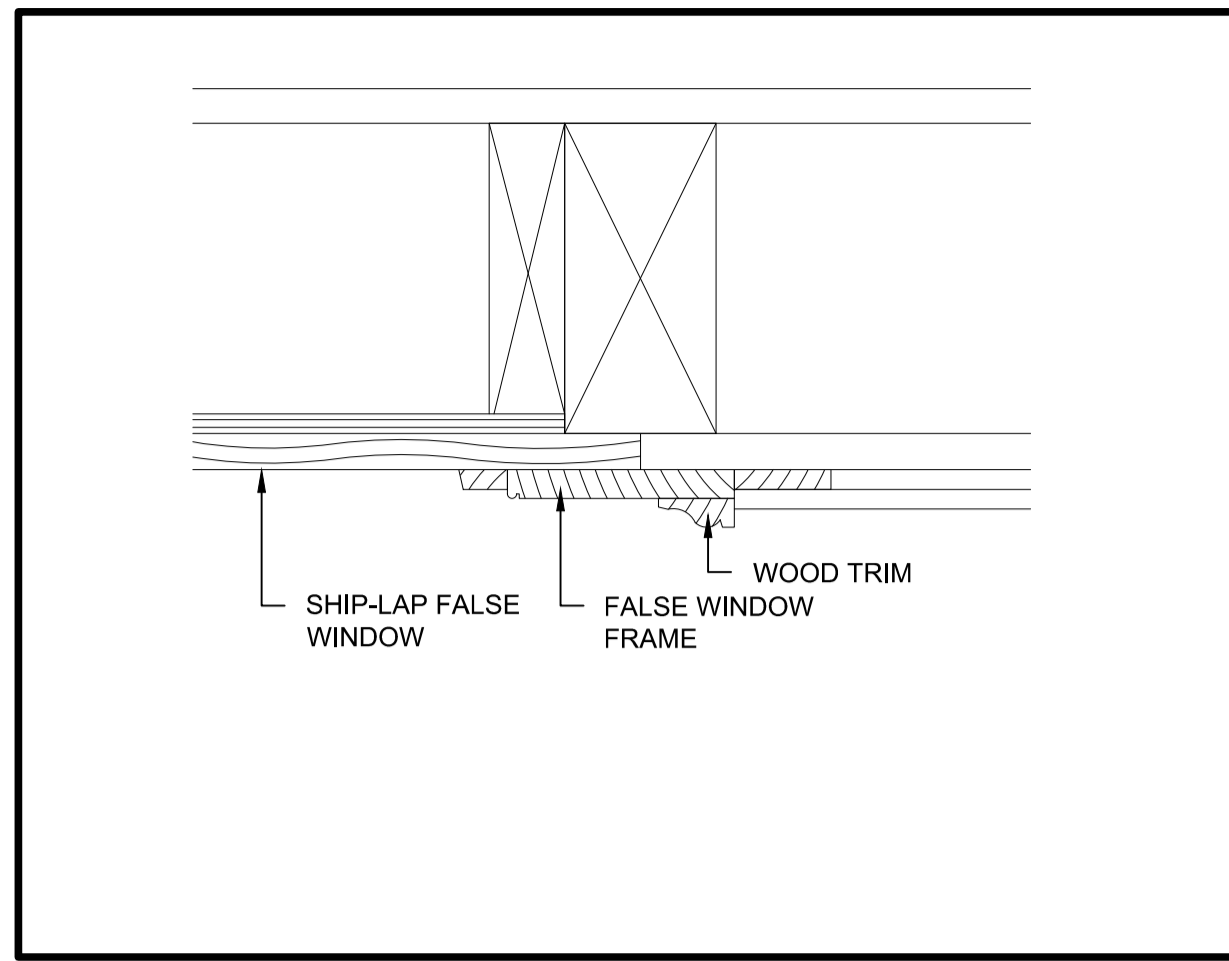
WINDOW AND DOOR ELEVATIONS

designed	G. SNOW	conçu
date	DEC. 2016	
drawn	C. BAIRD	dessiné
date	DEC. 2016	
approved		approuvé
date		
Tender		Soumission

PWGC Project Manager Administrateur de projets TPSGC

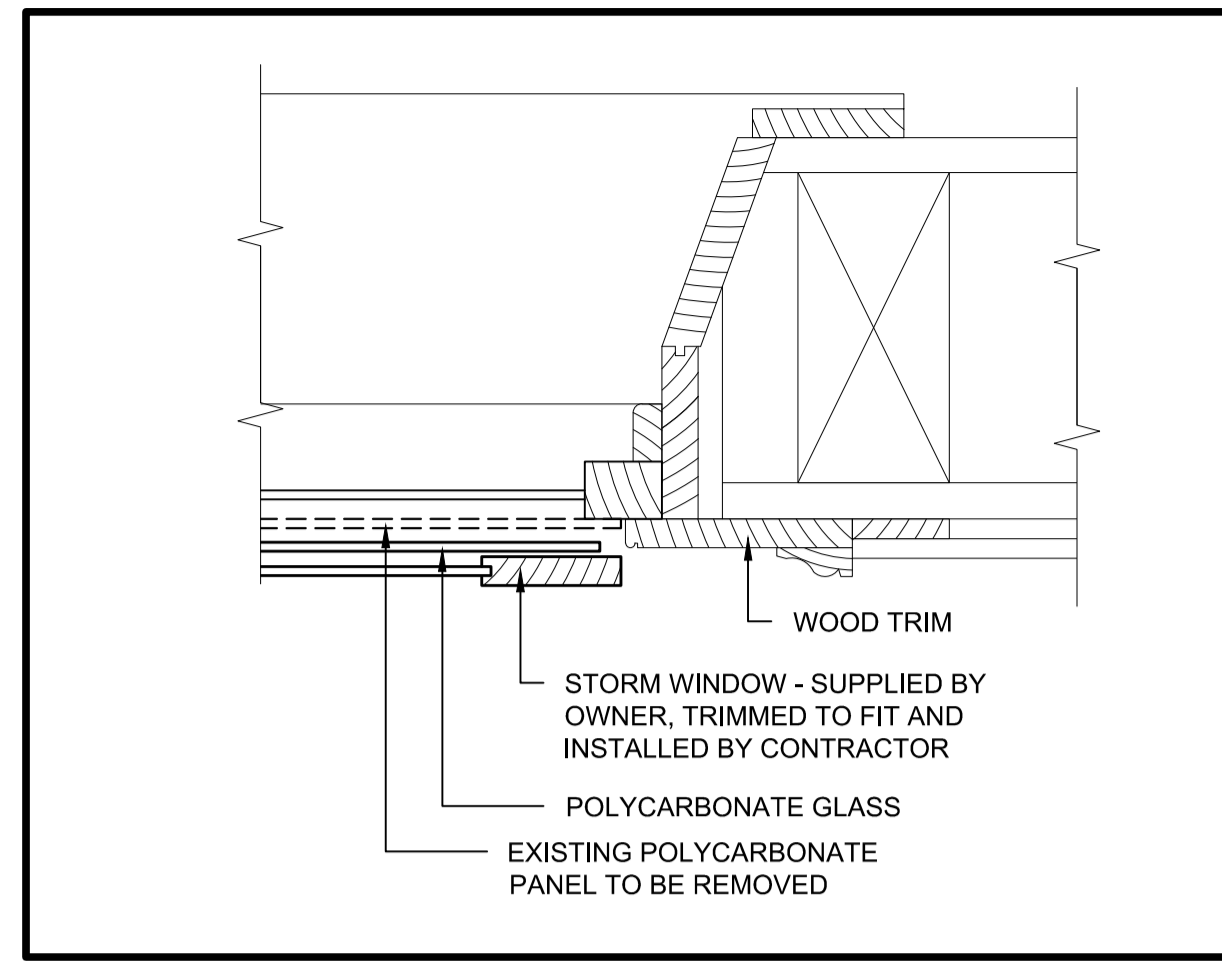
project number PCAN582 no. du projet

drawing no. A7 no. du dessin



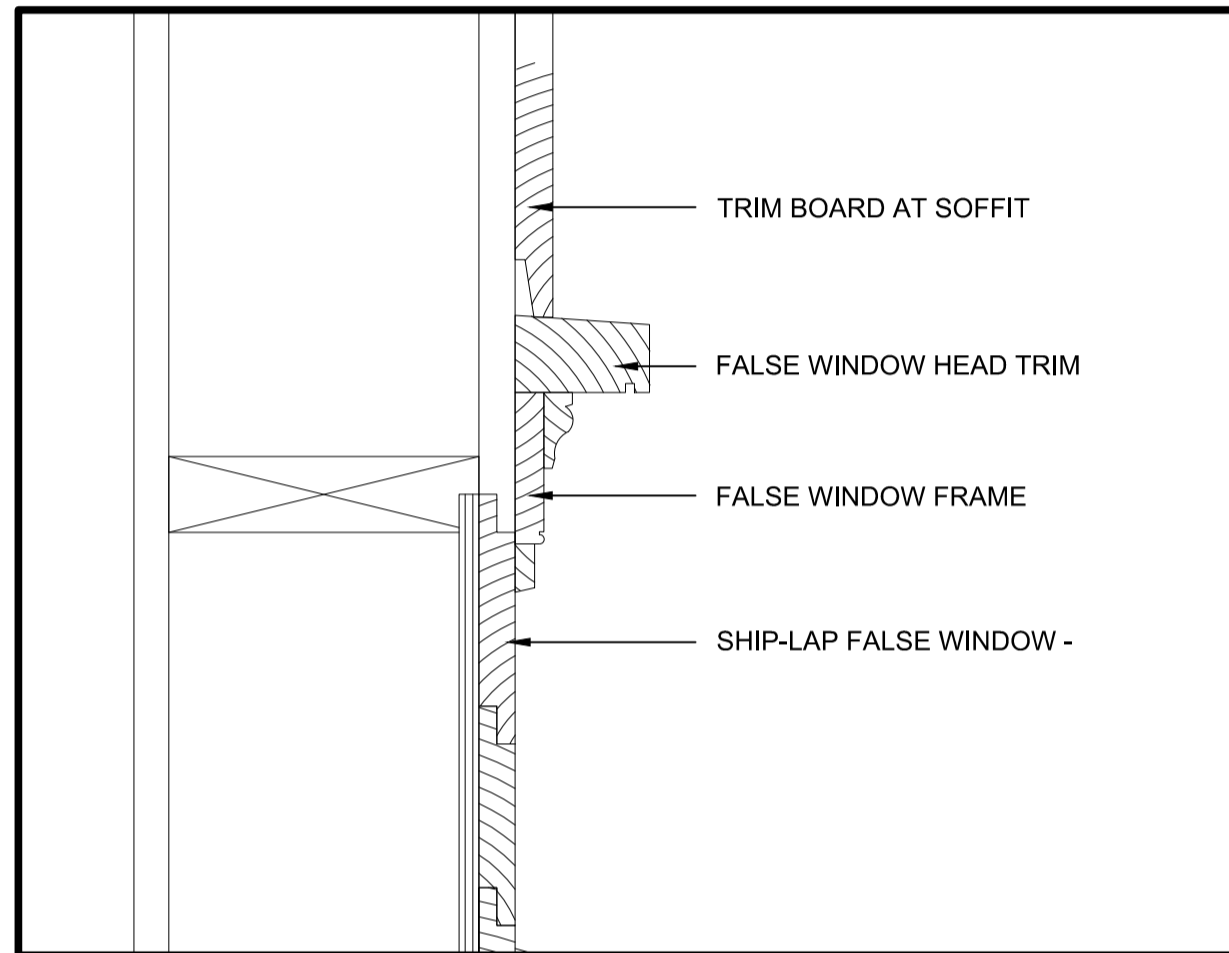
FALSE WINDOW JAMB DETAIL

8
A8



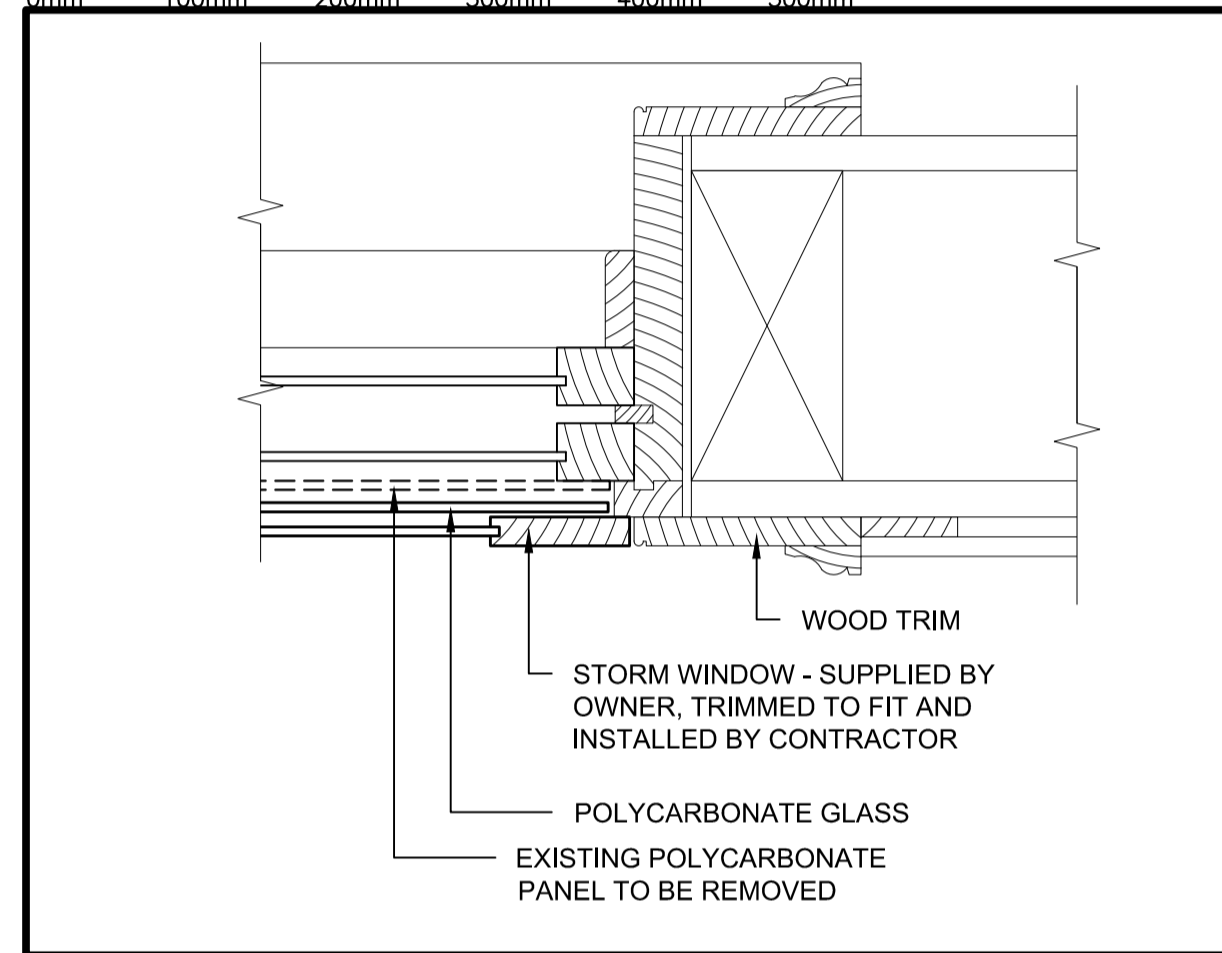
WIND. TYPE 2 JAMB DTL.

5
A8



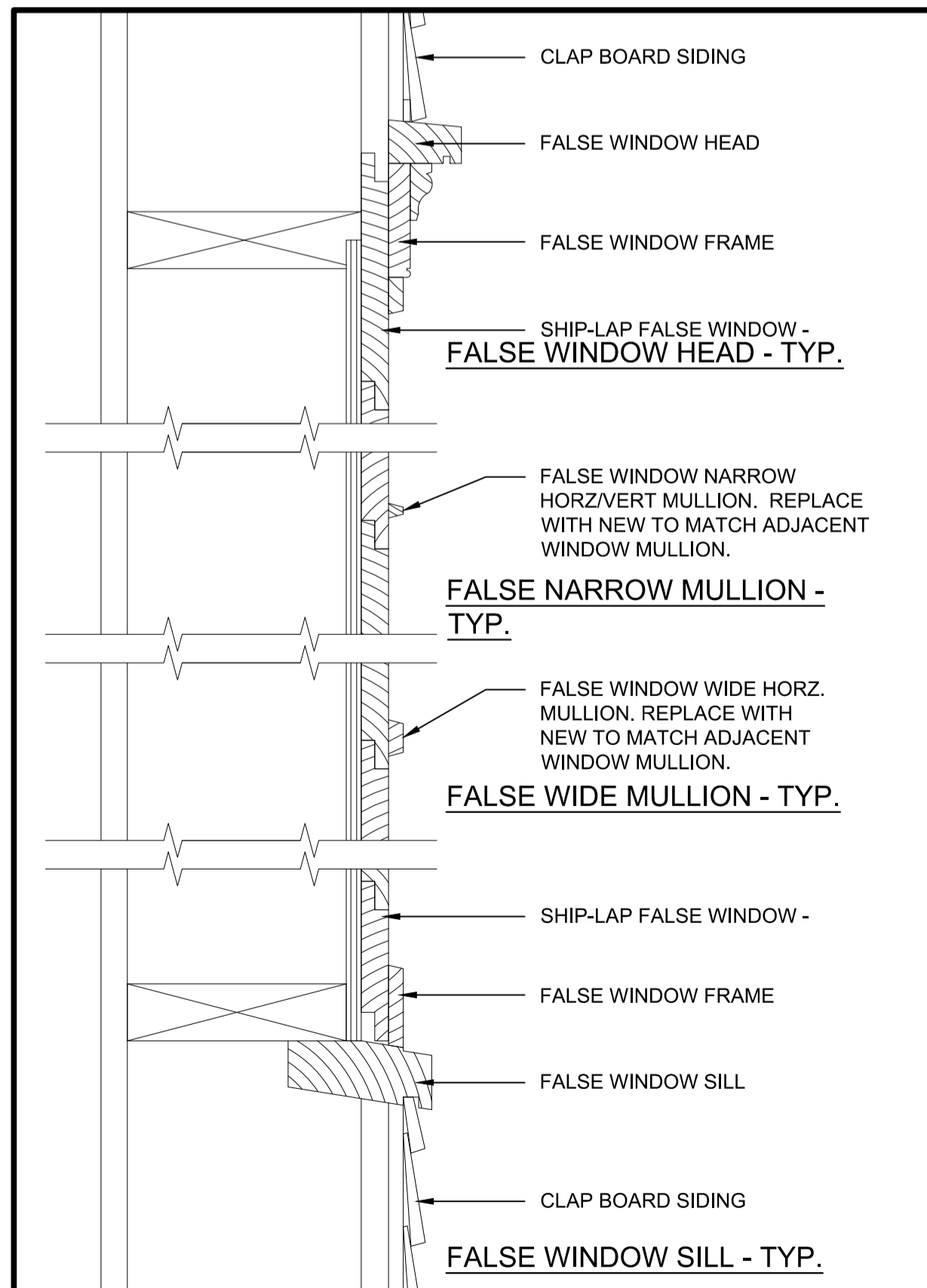
FALSE WINDOW HEAD DETAIL - 2ND FLOOR

7
A8



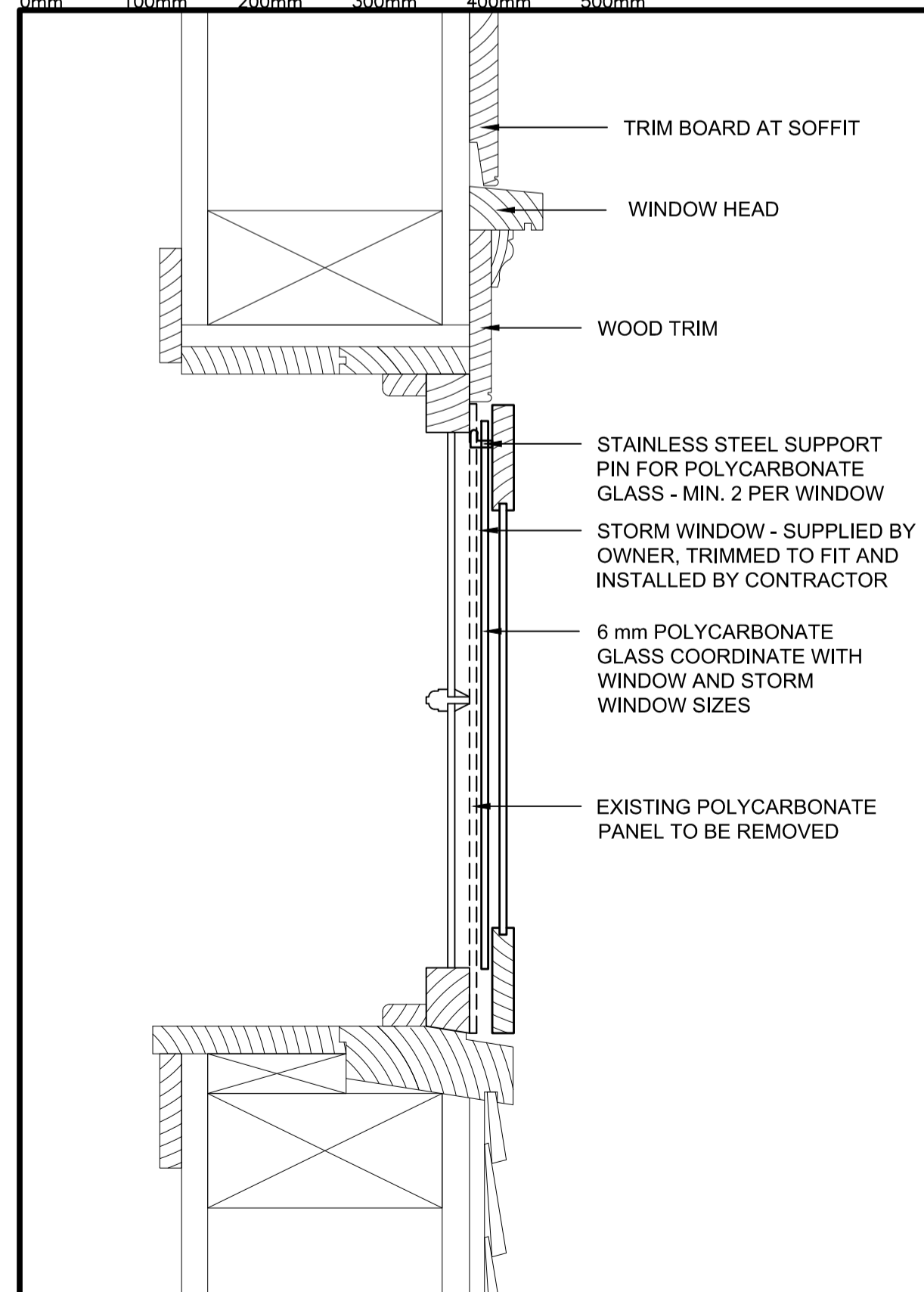
WIND. TYPE 1 JAMB DTL.

4
A8



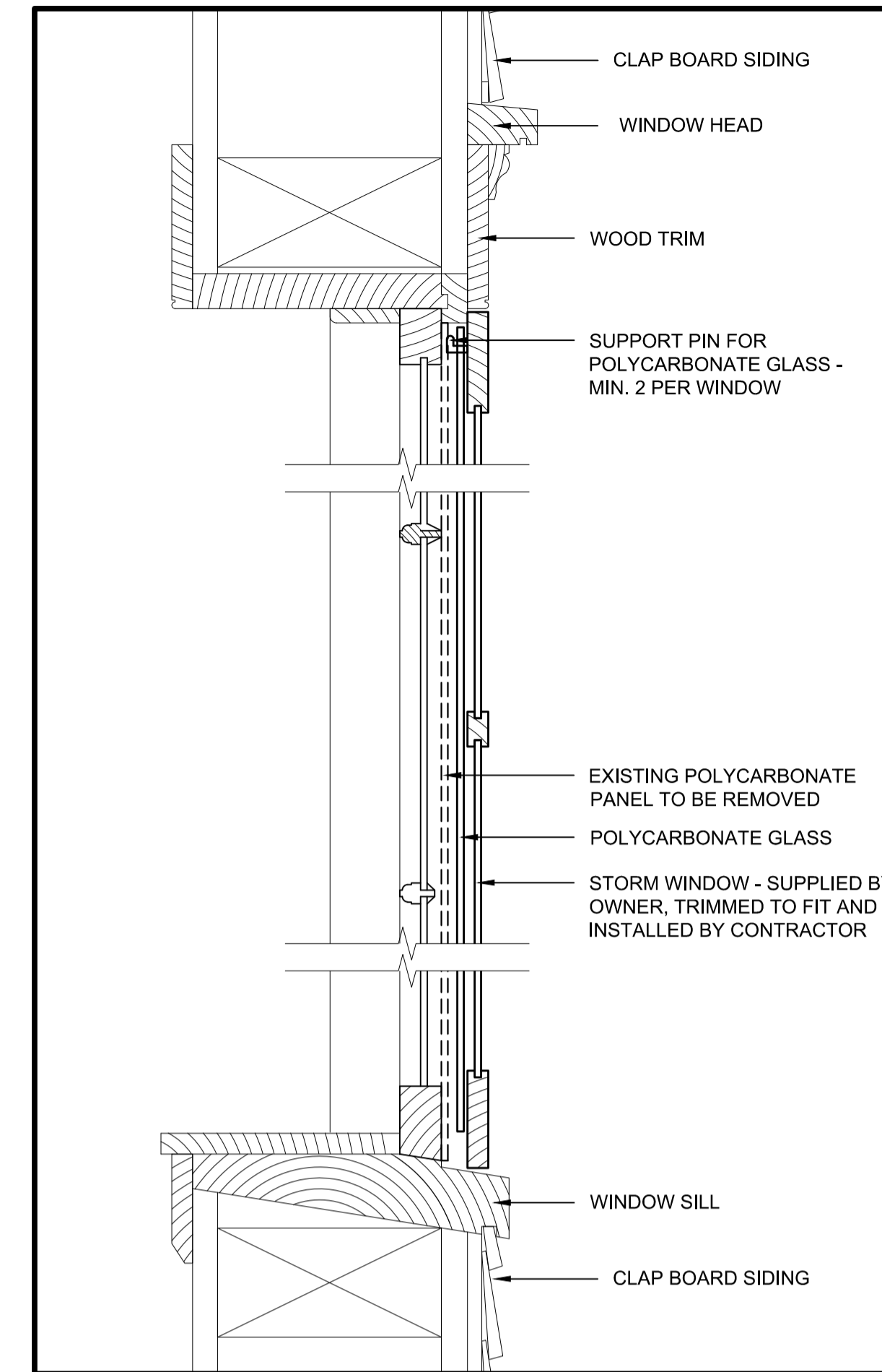
FALSE WINDOW DETAILS

6
A8



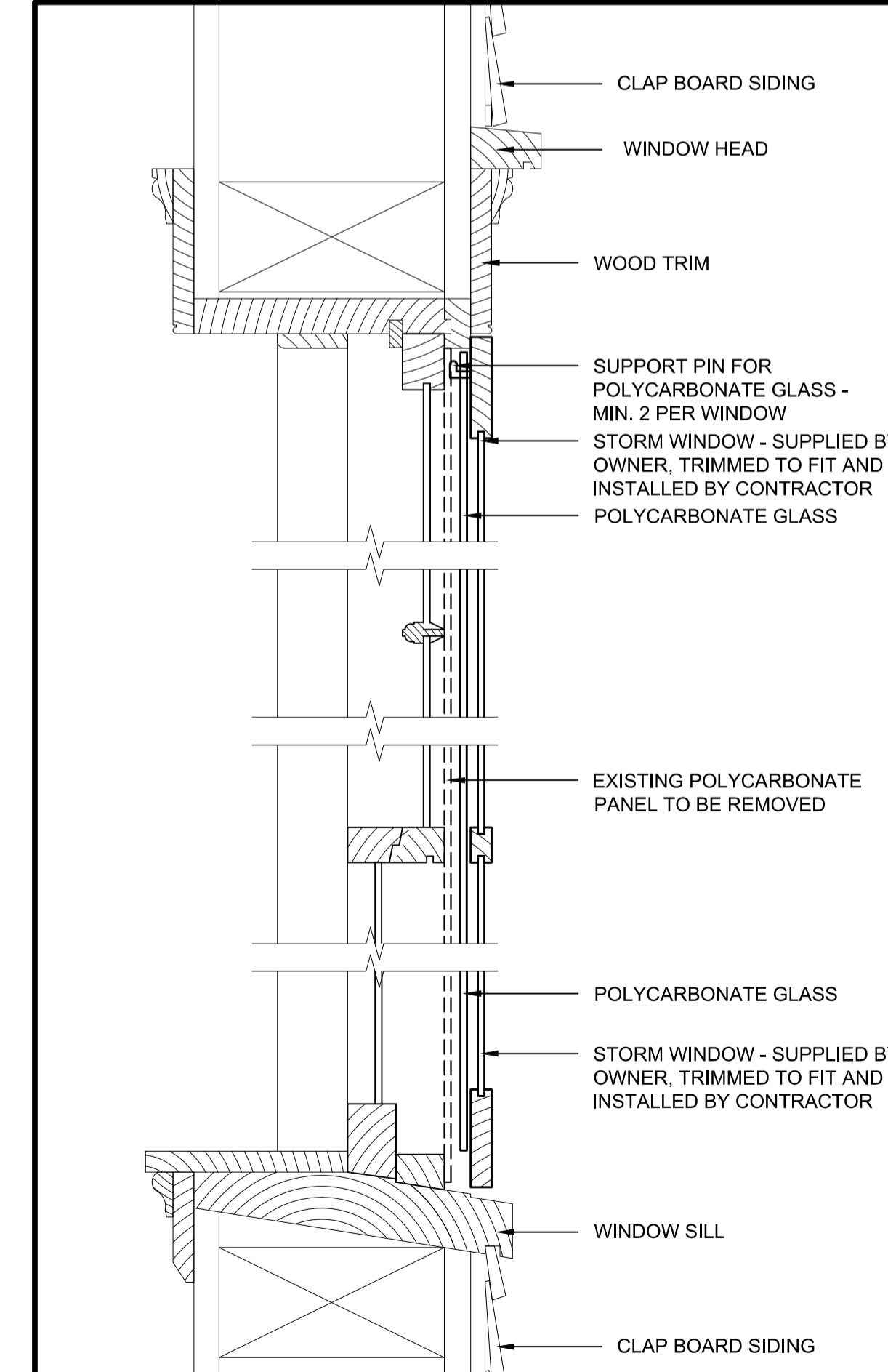
WINDOW TYPE 2 DETAILS

3
A8



WINDOW TYPE 3 DETAILS

2
A8



WINDOW TYPE 1 DETAILS

1
A8



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revisions		date
project		project

CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION
ST. JOHN'S, NL

drawing dessin

WINDOW DETAILS

designed G. SNOW conçu

date DEC. 2016

drawn C. BAIRD dessiné

date DEC. 2016

approved approuvé

date

Tender Soumission

PWGC Project Manager Administrateur de projets TPSCG

project number no. du projet

PCAN582

drawing no. no. du dessin

A8

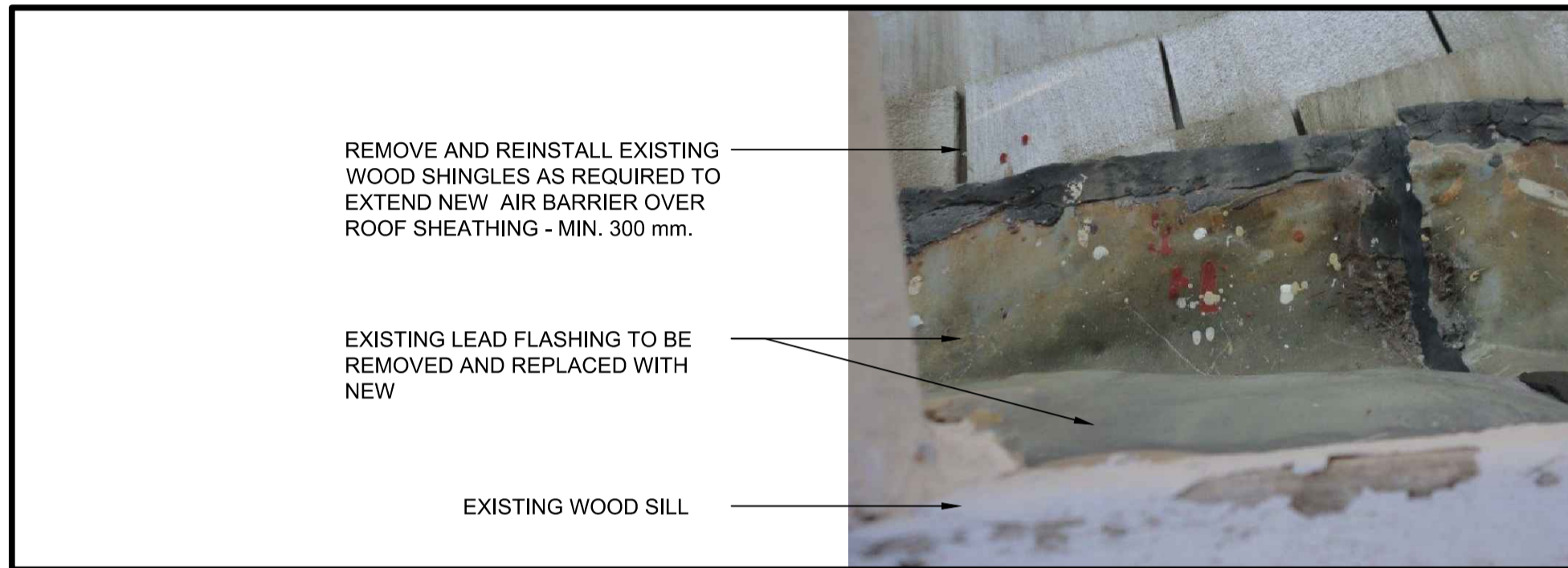


EXISTING WOOD SOFFIT
 EXISTING WOOD TRIM
 EXISTING EXTERIOR CATWALK RAIL TO REMAIN

ACCESS HATCH EXTERIOR HEAD

SCALE: N.T.S.

**E
A9**



REMOVE AND REINSTALL EXISTING WOOD SHINGLES AS REQUIRED TO EXTEND NEW AIR BARRIER OVER ROOF SHEATHING - MIN. 300 mm.
 EXISTING LEAD FLASHING TO BE REMOVED AND REPLACED WITH NEW
 EXISTING WOOD SILL

ACCESS HATCH EXTERIOR SILL

SCALE: N.T.S.

**D
A9**

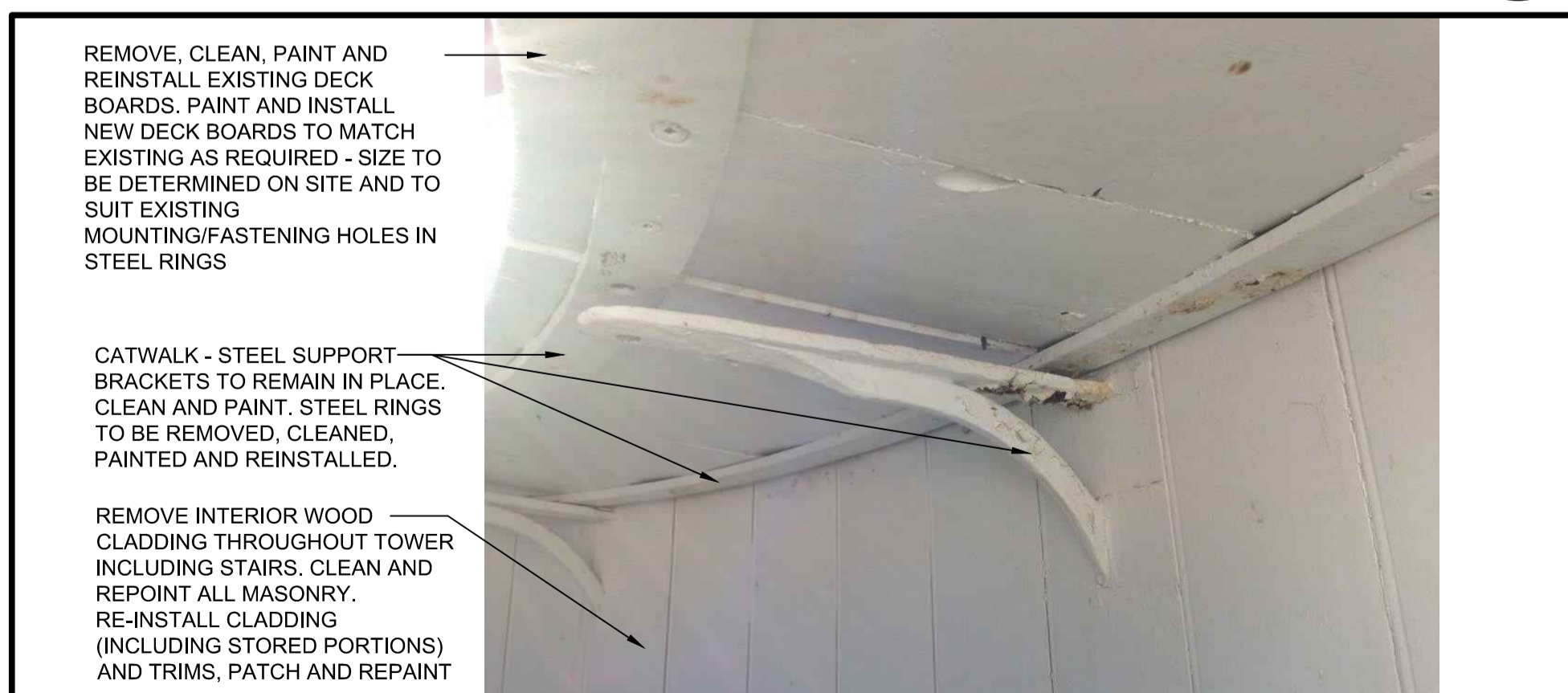


EXISTING TOWER MASONRY STRUCTURE. CLEAN AND REPOINT
 CATWALK - STEEL SUPPORT BRACKETS TO REMAIN IN PLACE. CLEAN AND PAINT. STEEL RINGS TO BE REMOVED, CLEANED, PAINTED AND REINSTALLED.
 EXISTING INTERIOR WOOD CLADDING THROUGHOUT TOWER
 CLEAN AND PAINT ACCESS HATCH. REPLACE DETERIORATED WOOD WITH NEW TO MATCH EXISTING. INSTALL WEATHER STRIPPING ALL AROUND.
 EXISTING WOOD CLADDING IN ACCESS HATCH OPENING TO REMAIN IN PLACE. CLEAN AND PAINT.

ACCESS HATCH OPENING

SCALE: N.T.S.

**C
A9**

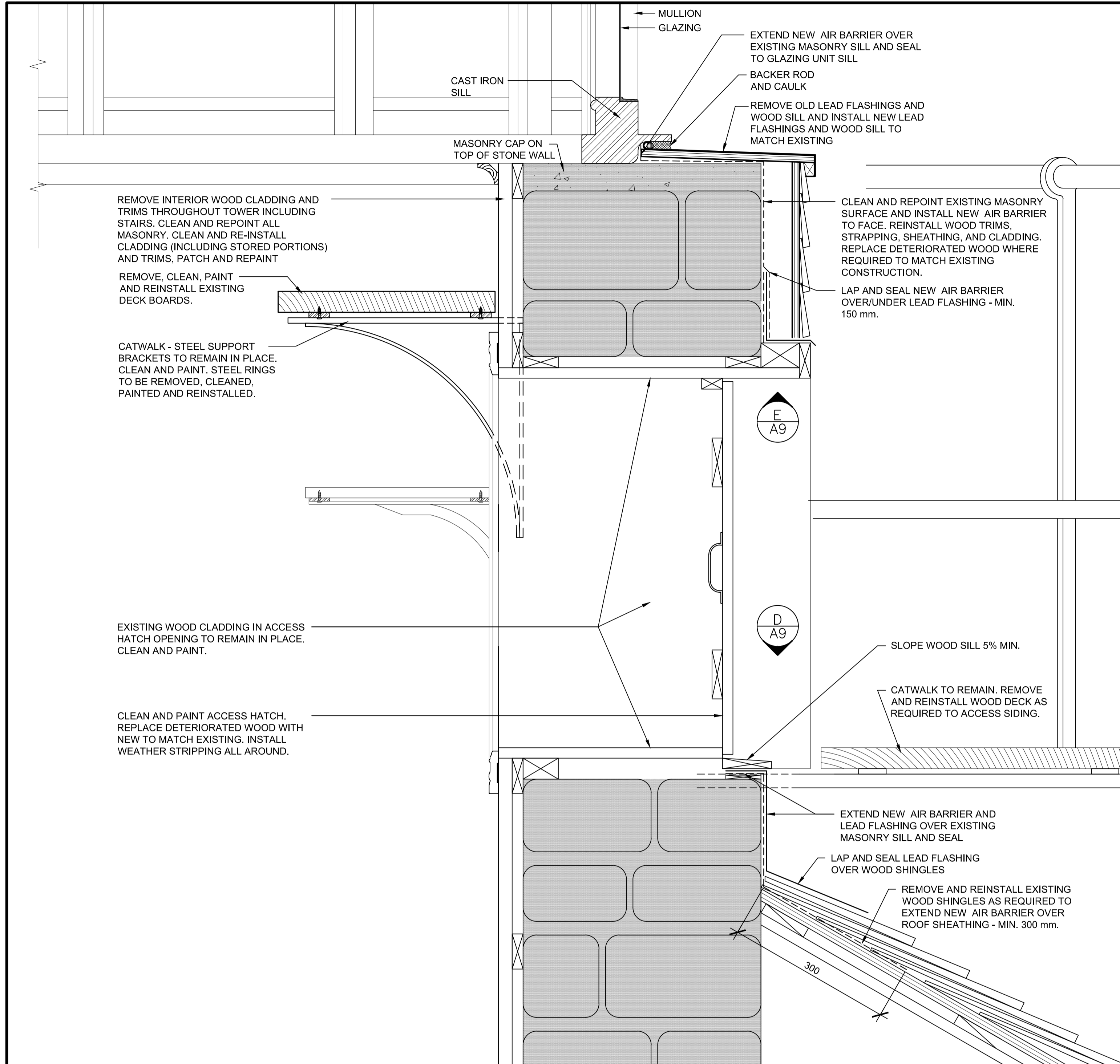


REMOVE, CLEAN, PAINT AND REINSTALL EXISTING DECK BOARDS. PAINT AND INSTALL NEW DECK BOARDS TO MATCH EXISTING AS REQUIRED - SIZE TO BE DETERMINED ON SITE AND TO SUIT EXISTING MOUNTING/FASTENING HOLES IN STEEL RINGS
 CATWALK - STEEL SUPPORT BRACKETS TO REMAIN IN PLACE. CLEAN AND PAINT. STEEL RINGS TO BE REMOVED, CLEANED, PAINTED AND REINSTALLED.
 REMOVE INTERIOR WOOD CLADDING THROUGHOUT TOWER INCLUDING STAIRS. CLEAN AND REPOINT ALL MASONRY. RE-INSTALL CLADDING (INCLUDING STORED PORTIONS) AND TRIMS. PATCH AND REPAIR

TOWER INTERIOR CATWALK

SCALE: N.T.S.

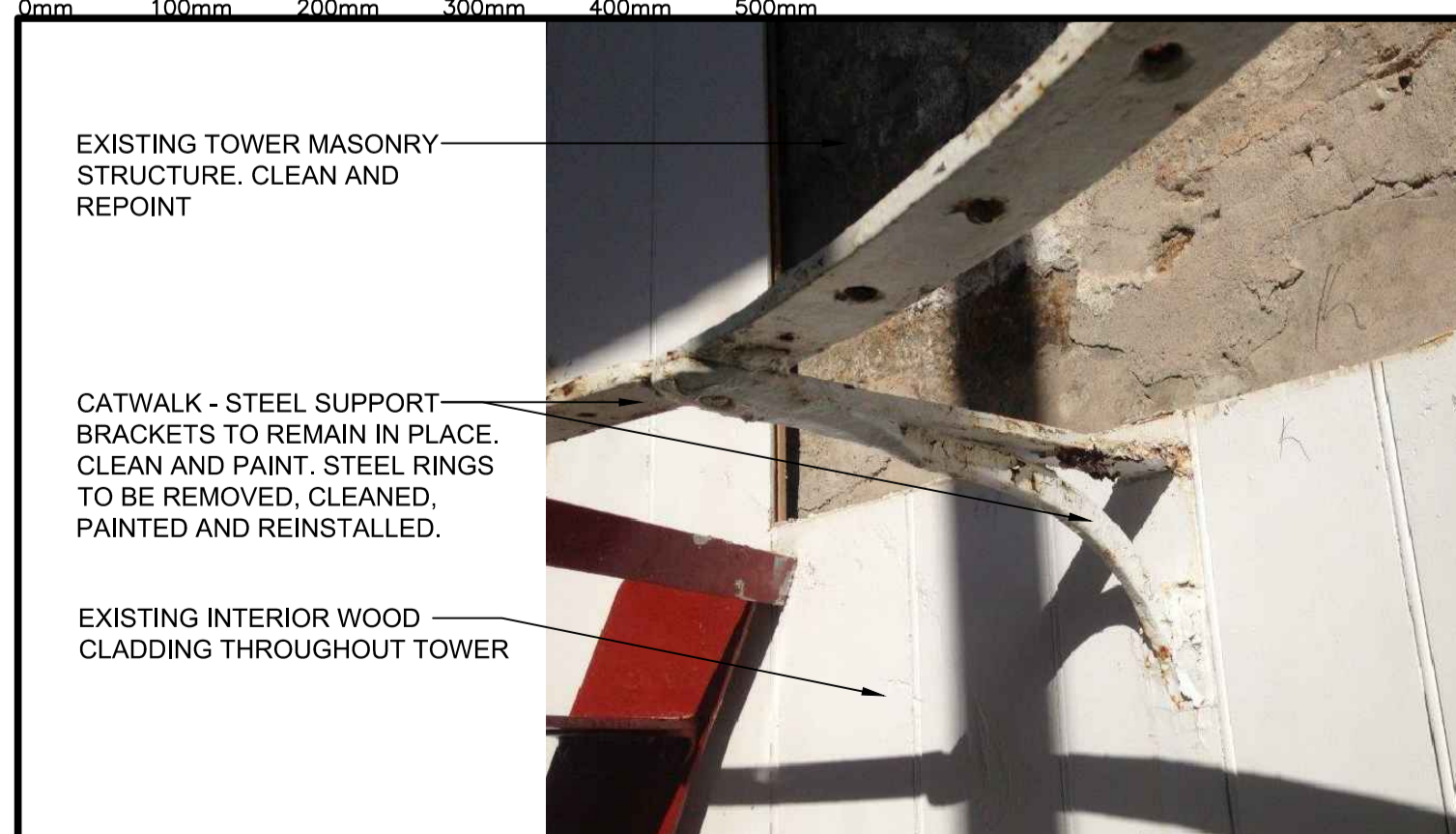
**B
A9**



DOMES SECTION

SCALE: 1:5

**2
A9**

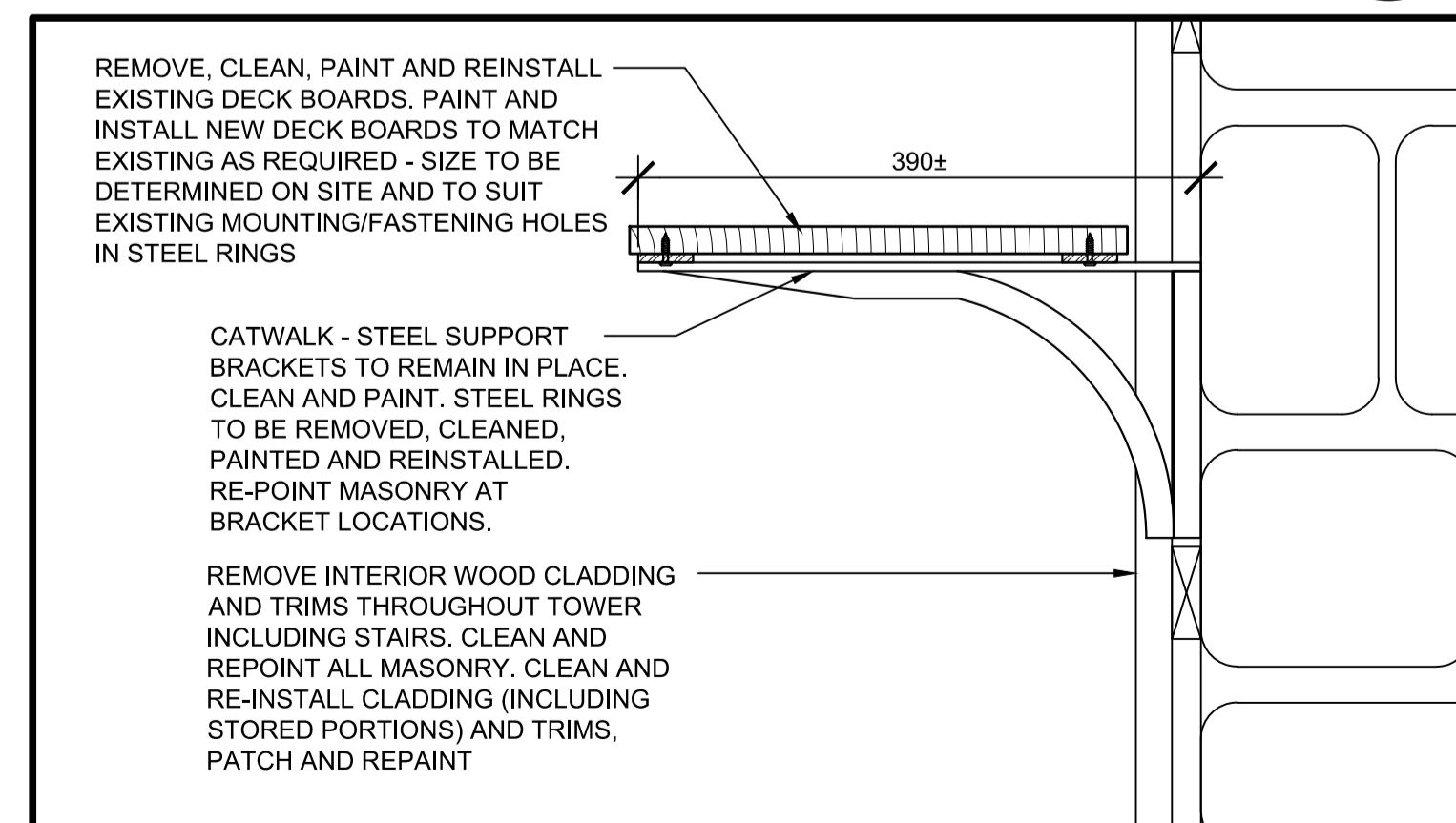


EXISTING TOWER MASONRY STRUCTURE. CLEAN AND REPOINT
 CATWALK - STEEL SUPPORT BRACKETS TO REMAIN IN PLACE. CLEAN AND PAINT. STEEL RINGS TO BE REMOVED, CLEANED, PAINTED AND REINSTALLED.
 EXISTING INTERIOR WOOD CLADDING THROUGHOUT TOWER

TOWER INTERIOR CATWALK SUPPORT

SCALE: N.T.S.

**A
A9**

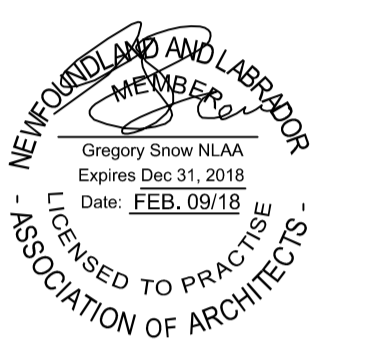


REMOVE, CLEAN, PAINT AND REINSTALL EXISTING DECK BOARDS. PAINT AND INSTALL NEW DECK BOARDS TO MATCH EXISTING AS REQUIRED - SIZE TO BE DETERMINED ON SITE AND TO SUIT EXISTING MOUNTING/FASTENING HOLES IN STEEL RINGS
 CATWALK - STEEL SUPPORT BRACKETS TO REMAIN IN PLACE. CLEAN AND PAINT. STEEL RINGS TO BE REMOVED, CLEANED, PAINTED AND REINSTALLED. RE-POINT MASONRY AT BRACKET LOCATIONS.
 REMOVE INTERIOR WOOD CLADDING AND TRIMS THROUGHOUT TOWER INCLUDING STAIRS. CLEAN AND REPOINT ALL MASONRY. CLEAN AND RE-INSTALL CLADDING (INCLUDING STORED PORTIONS) AND TRIMS. PATCH AND REPAIR

INTERIOR CATWALK

SCALE: 1:5

**1
A9**



0	ISSUED FOR TENDER	FEB.9 2018
revisions		date
project		project

CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION
ST. JOHN'S, NL

drawing no. dessin

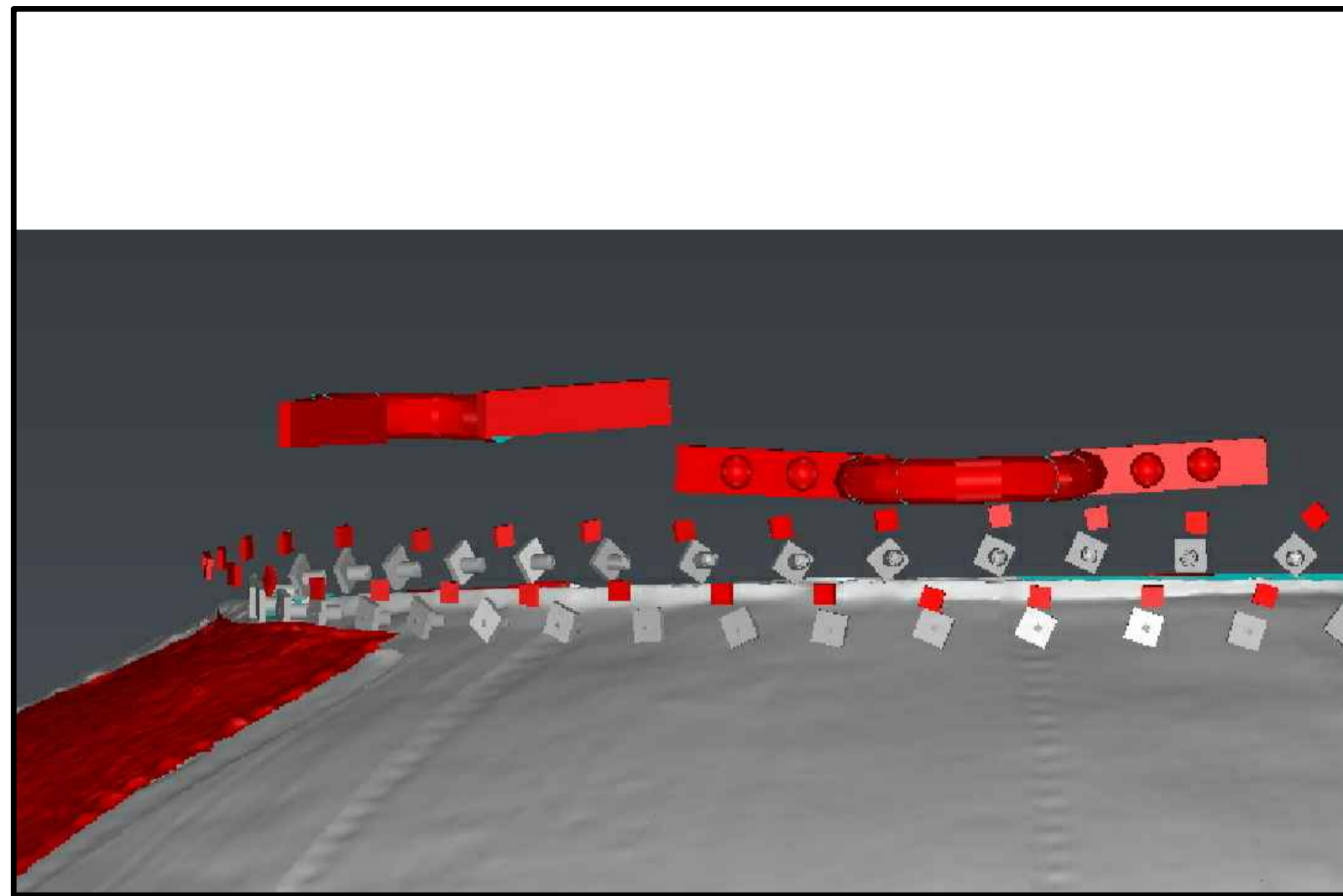
DETAILS

designed	G. SNOW	conçu
date	DEC. 2016	
drawn	C. BAIRD	dessiné
date	DEC. 2016	
approved		approuvé
date		
Tender		Soumission
PWSC Project Manager	Administrateur de projets TPSCG	
project number		no. du projet

PCAN582

drawing no. no. du dessin

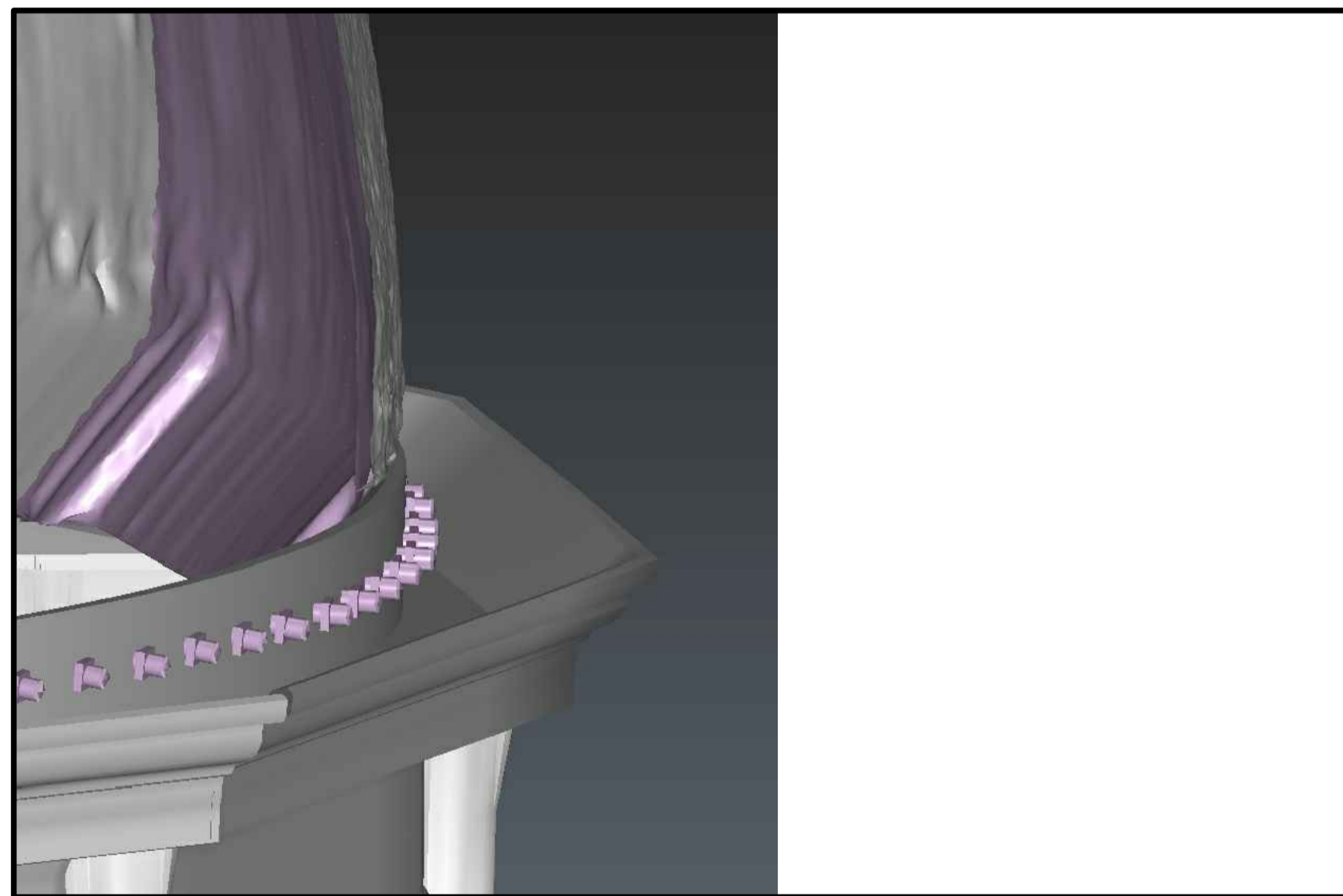
A9



DOME TOP STIFFENER BOLT ALIGNMENT

SCALE: N.T.S.

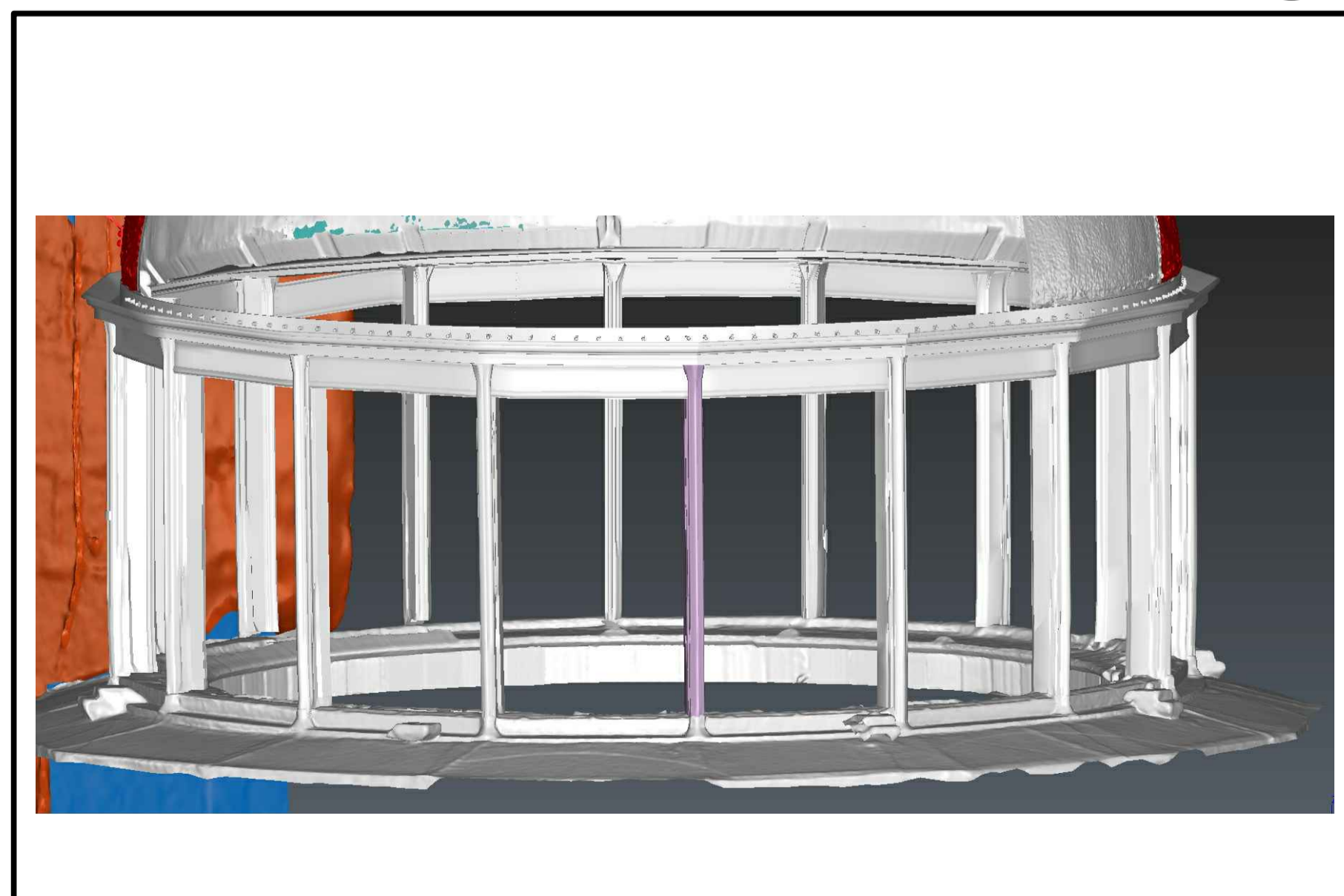
5
A10



DOME BOTTOM STIFFENER

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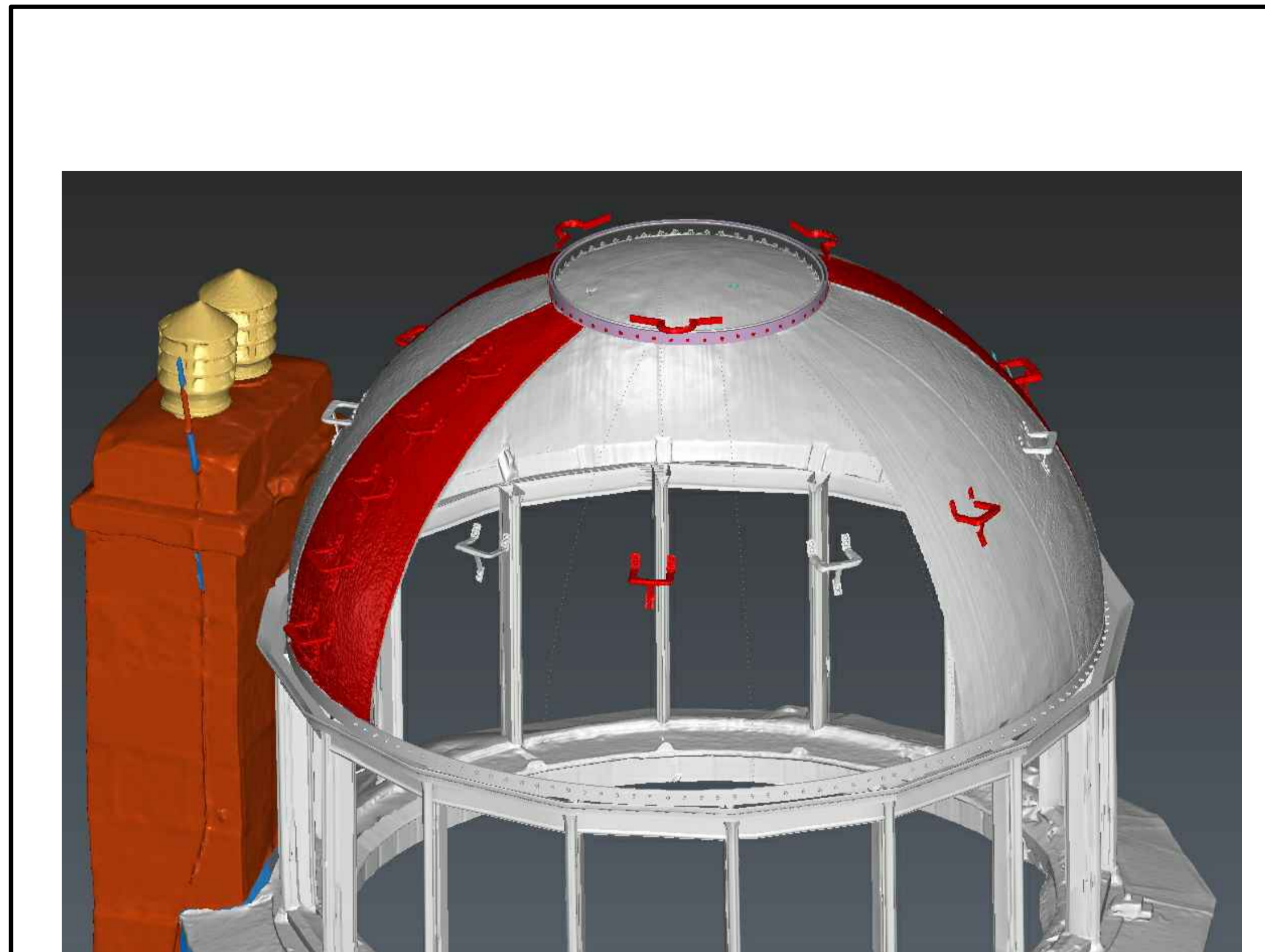
4
A10



LANTERN MULLION

SCALE: N.T.S.

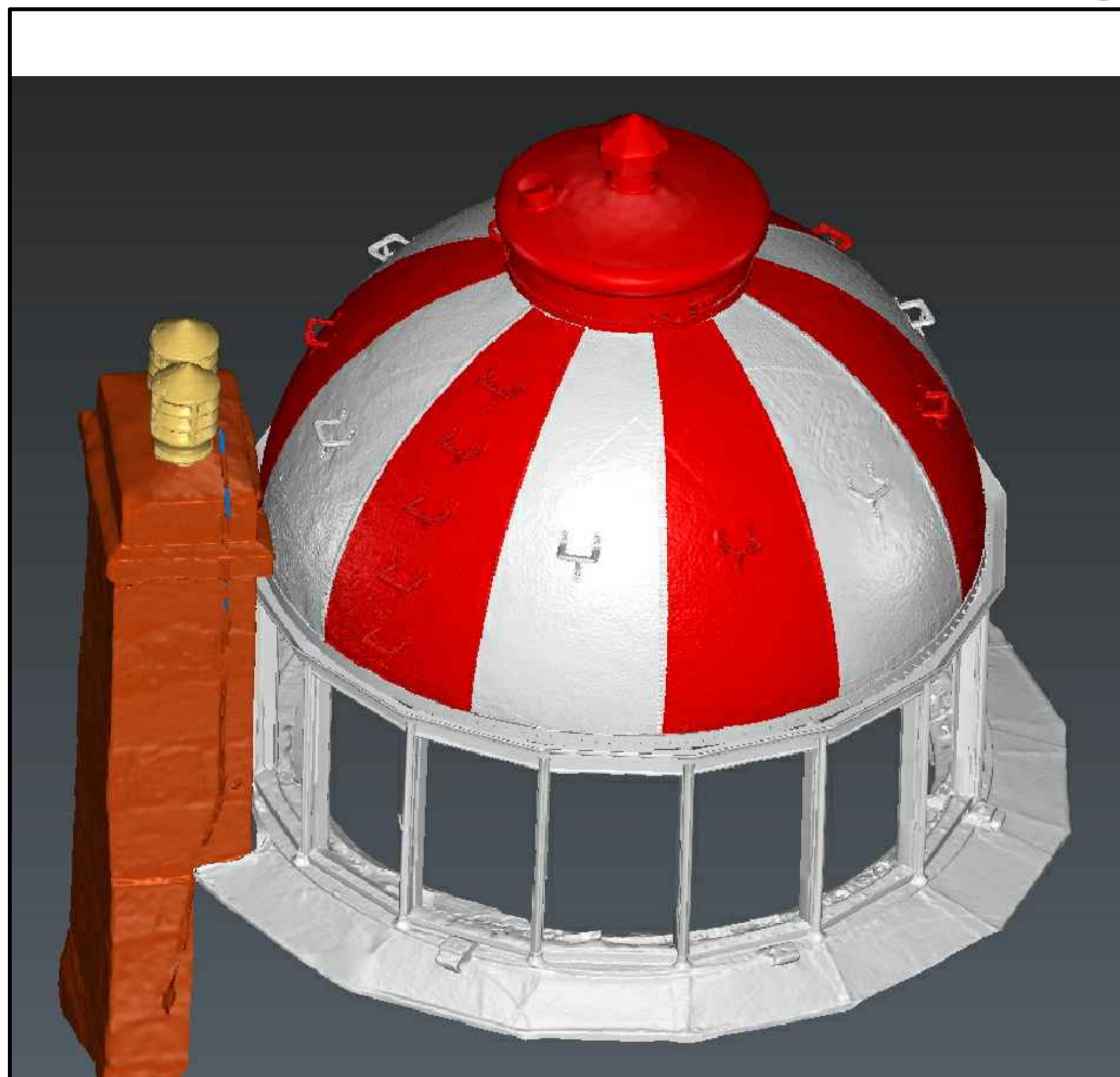
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A10



LANTERN AND DOME SECTION

SCALE: N.T.S.

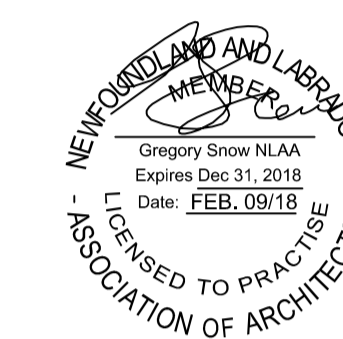
2
A10



DOME ELEVATION

SCALE: N.T.S.

1
A10



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revisions		date

project

CAPE SPEAR NHS
LIGHTHOUSE DOME
RECAPITALISATION
ST. JOHN'S, NL

drawing

DOME REFERENCE
IMAGES

designed G. SNOW conçu

date SEPT. 2017

drawn C. BAIRD dessiné

date SEPT. 2017

approved approuvé

date

Tender Soumission

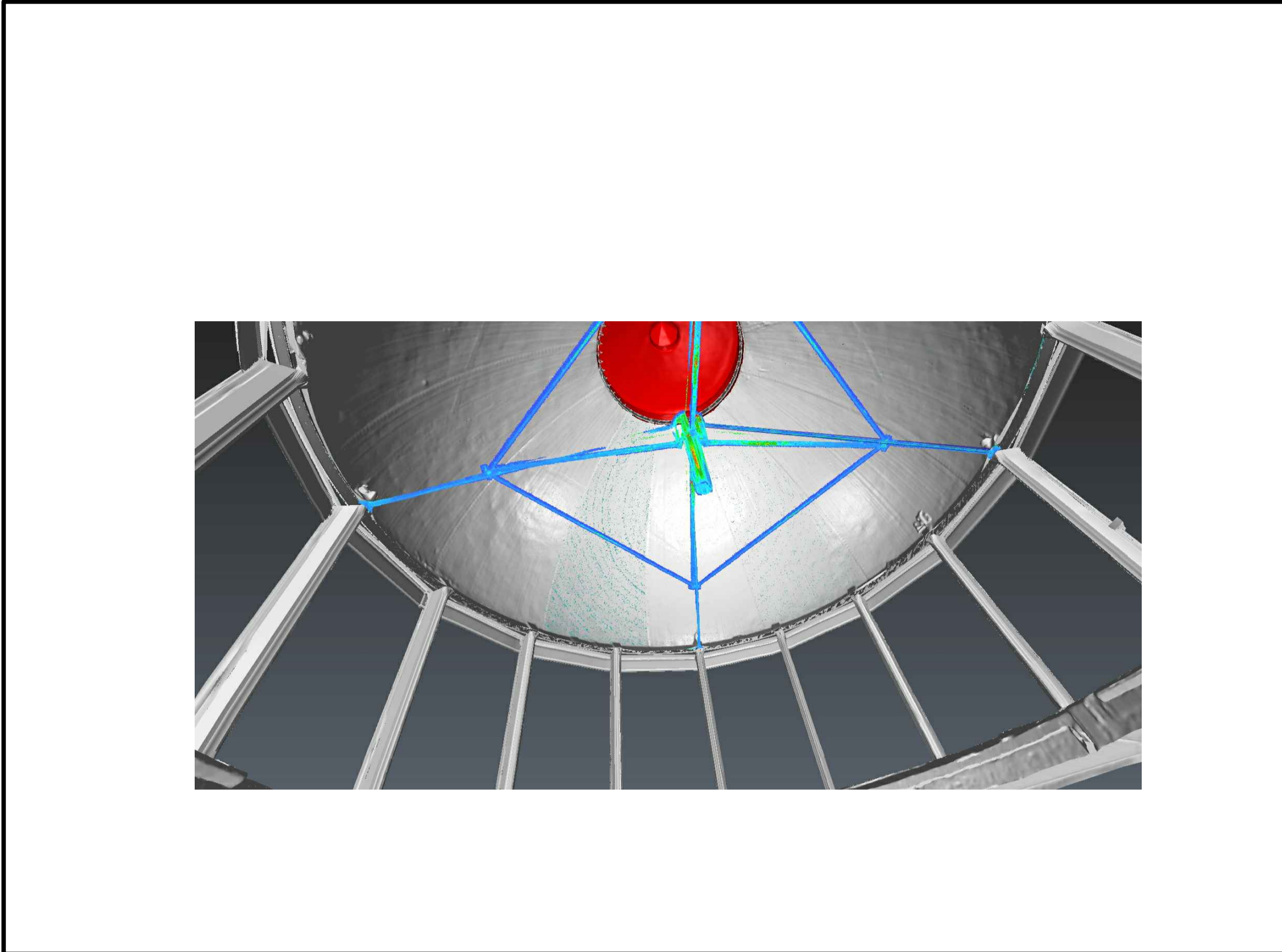
PWGC Project Manager Administrateur de projets TPSGC

project number no. du projet

PCAN582

drawing no. no. du dessin

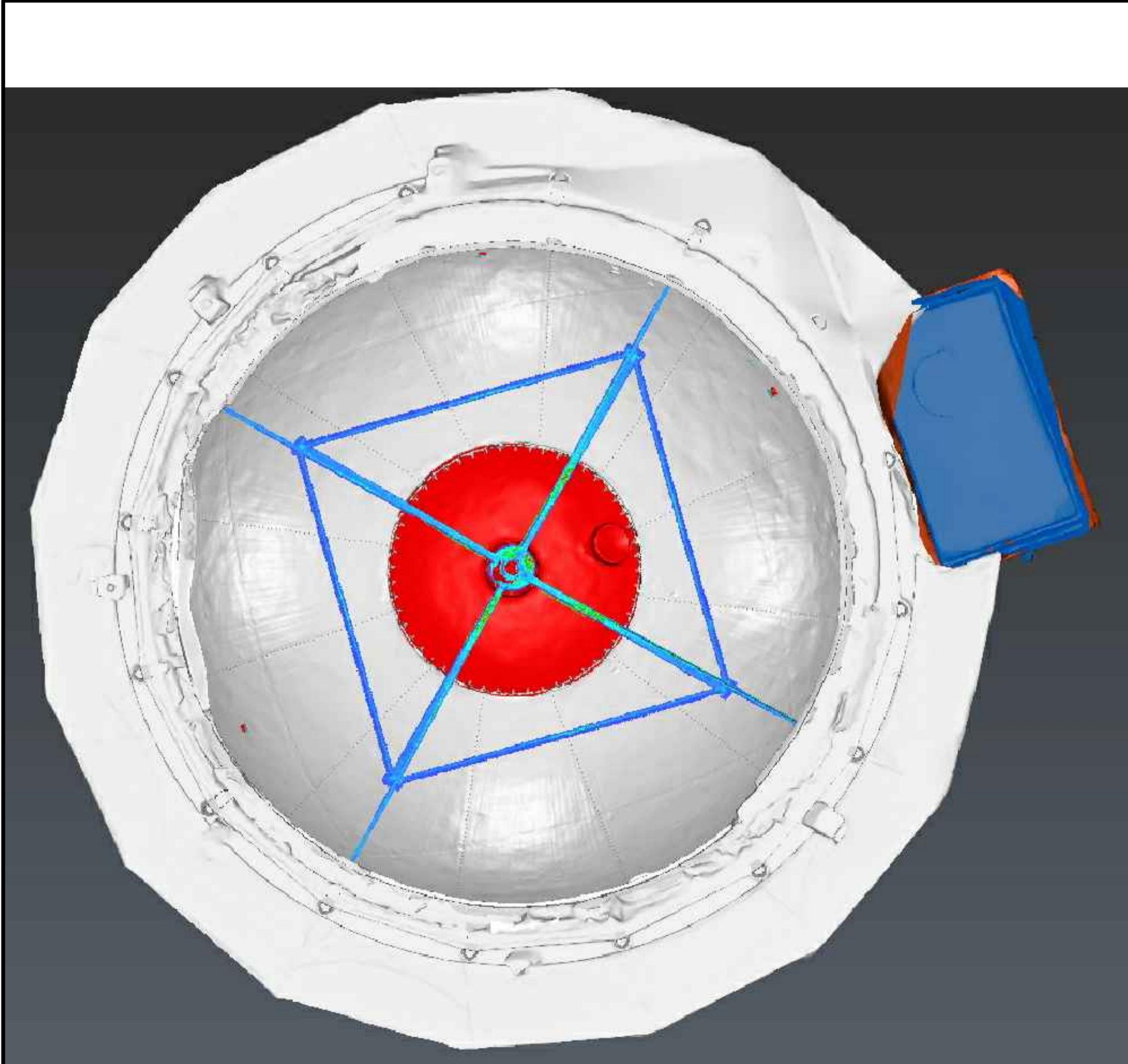
A10



LANTERN/DOME VIEW FROM BELOW

SCALE: N.T.S.

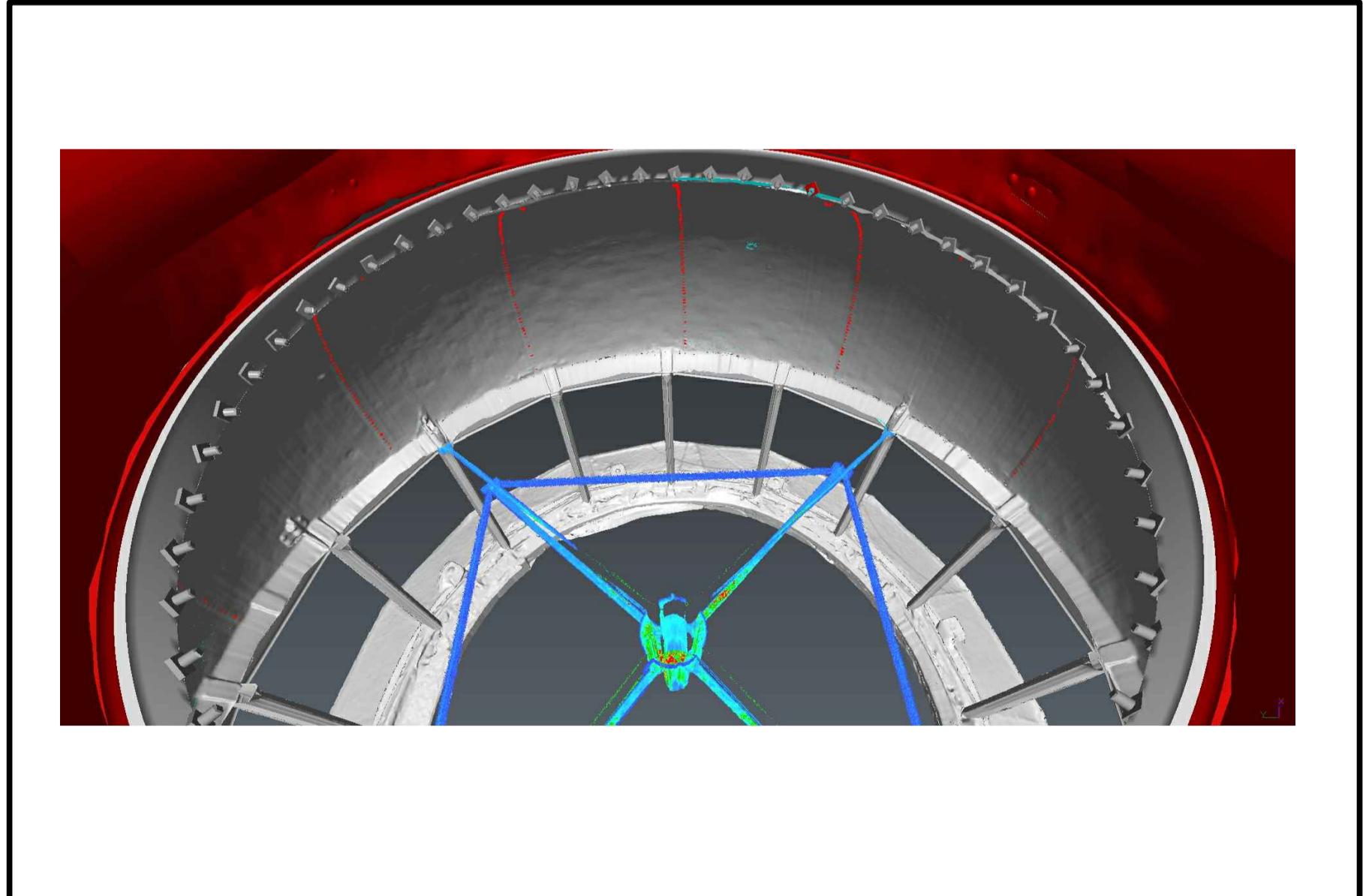
2
A11



DOME UNDERSIDE

SCALE: N.T.S.

1
A11



LANTERN/DOME VIEW FROM ABOVE

SCALE: N.T.S.

3
A11

0	ISSUED FOR TENDER	FEB.9 2018
revisions		date

project
CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION
ST. JOHN'S, NL

DOME REFERENCE IMAGES

designed	G. SNOW	conçu
date	SEPT. 2017	
drawn	C. BAIRD	dessiné
date	SEPT. 2017	
approved		approuvé

date
Tender

PWGC Project Manager / Administrateur de projets TPSGC

project number / no. du projet

PCAN582

drawing no. / no. du dessin

A11

CAPE SPEAR NHS
LIGHTHOUSE DOME
RECAPITALIZATION
PROJECT No. PCAN5582.00

CAPE SPEAR, NL

ISSUED FOR TENDER
FEBRUARY 9, 2018

ELECTRICAL/MECHANICAL CONSULTANT:

CROSBIE
ENGINEERING LTD.

CONSULTING ENGINEERS

21 Mews Place, 2nd Floor
P.O. Box 13295, Station "A"
St. John's, NL A1B 4A5

Tel: (709) 754-1911
Fax: (709) 754-1960
admin@crosbieeng.com

DRAWING LIST:

E1 - ELECTRICAL LAYOUTS
E2 - ELECTRICAL DETAILS

ELECTRICAL

ARCHITECT:

Gibbons + Snow architects

Suite 201
Caledonia Place
40 Quidi Vidi Road
St. John's, NL
A1A 1C1

Tel: 709.738.4422
Fax: 709.738.4455

GSA #: 16-6100-01

ELECTRICAL CONSULTANT:

CROSBIE ENGINEERING LTD.
CONSULTING ENGINEERS

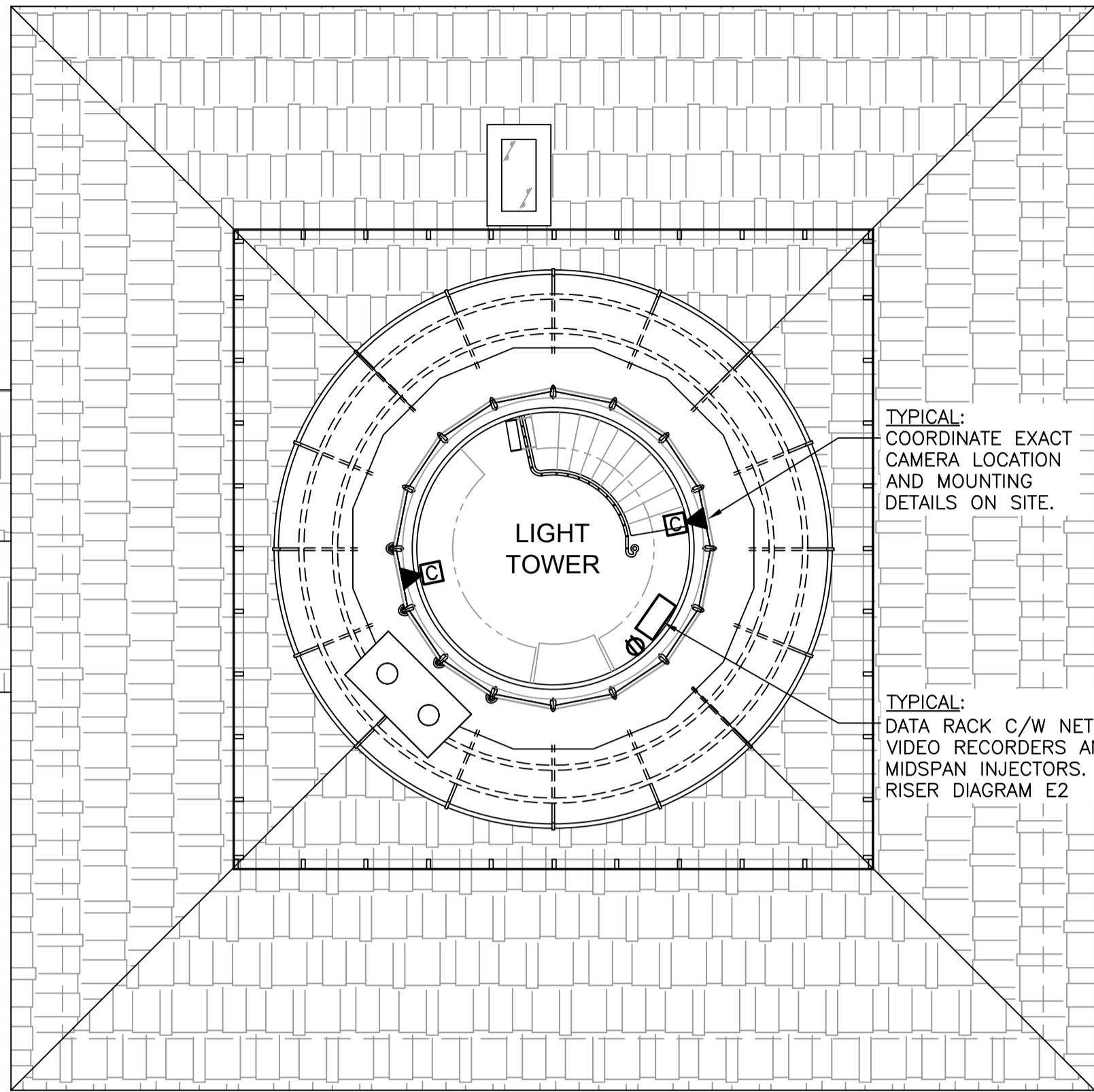
21 Meek Place, 2nd Floor, St. John's, NL, A1B 4K5
Tel: (709) 754-1911
Fax: (709) 754-1960
email: info@crosbieeng.com

STAMP:

PROFESSIONAL ENGINEER
08501 Frederick Earle
REGISTERED FEB 09/18
NEWFOUNDLAND & LABRADOR

PERMIT:
PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER Class "A"
This Permit Allows
CROSBIE ENGINEERING LIMITED
To practice Professional Engineering in Newfoundland and Labrador
Permit No. as issued by PEG-NS 05123
which is valid for the year 2018.

DRAWING NOTES:
1. REMOVE EXISTING LIGHTING ROD AND WIRING FROM LIGHT TOWER TO ALLOW FOR THE REMOVAL AND REVITALIZATION OF THE LIGHT TOWER. EXISTING WIRING TO REMAIN FOR USE WHEN LIGHT TOWER IS REINSTATED.
2. INSTALL EXISTING LIGHTING ROD AND WIRING ONCE LIGHT TOWER HAS BEEN REINSTATED. MAKE TERMINATIONS AS REQUIRED.

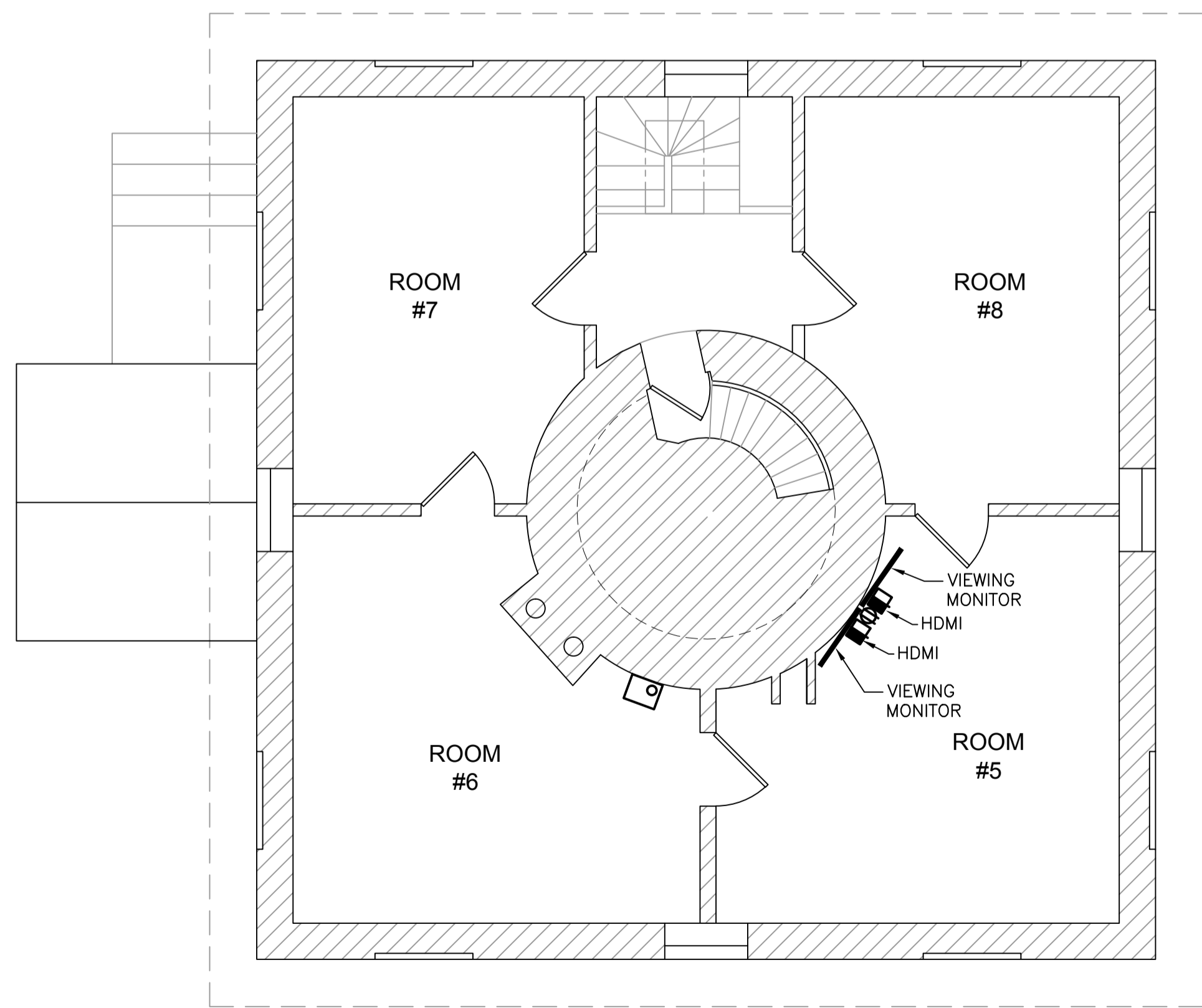
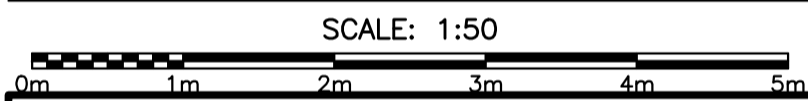
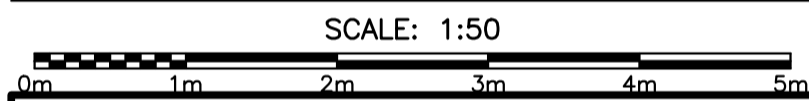


TOWER / ROOF PLAN - EXISTING CONDITIONS

1
A2

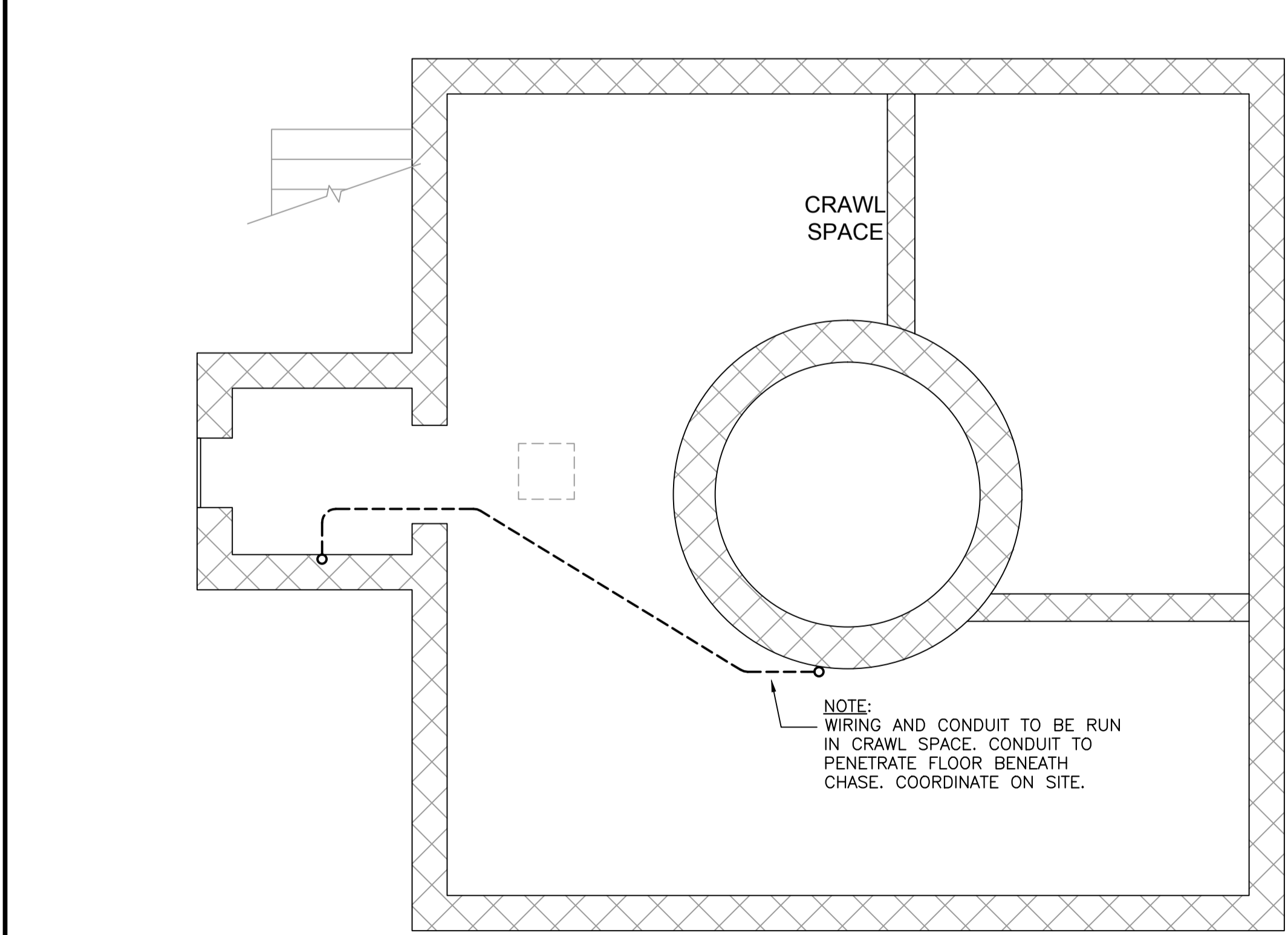
FIRST FLOOR PLAN - EXISTING CONDITIONS

2
A2



SECOND FLOOR PLAN - EXISTING CONDITIONS

3
A2



CRAWL SPACE PLAN - EXISTING CONDITIONS

1
A2



0	ISSUED FOR TENDER	FEB 09 2018
revisions		date

project CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION
ST. JOHN'S, NL

ELECTRICAL LAYOUTS

designed	F. EARLE	conçu
date	FEB. 2018	
drawn	B. COLLETT	dessiné
date	FEB. 2018	
approved		approuvé
date		
Tender		Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number	no. du projet	
	PCAN5582.00	
drawing no.	no. du dessin	
	E1	

ARCHITECT:

Gibbons + Snow architects

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Fax: 709.738.4455

GSA #: 16-6100-01

ELECTRICAL CONSULTANT:

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CONSULTING ENGINEERS

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Fax: (709) 754-1960
admin@crobieeng.com

STAMP:

PROFESSIONAL ENGINEER
08501 Frederick Earle
REGISTERED FEB 09/18
NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND PERMIT HOLDER Class "A" This Permit Allows CROSBIE ENGINEERING LIMITED To practice Professional Engineering in Newfoundland and Labrador Permit No. as issued by PEG-NS 05123 which is valid for the year 2018.

0	ISSUED FOR TENDER	FEB 09 2018
revisions		date

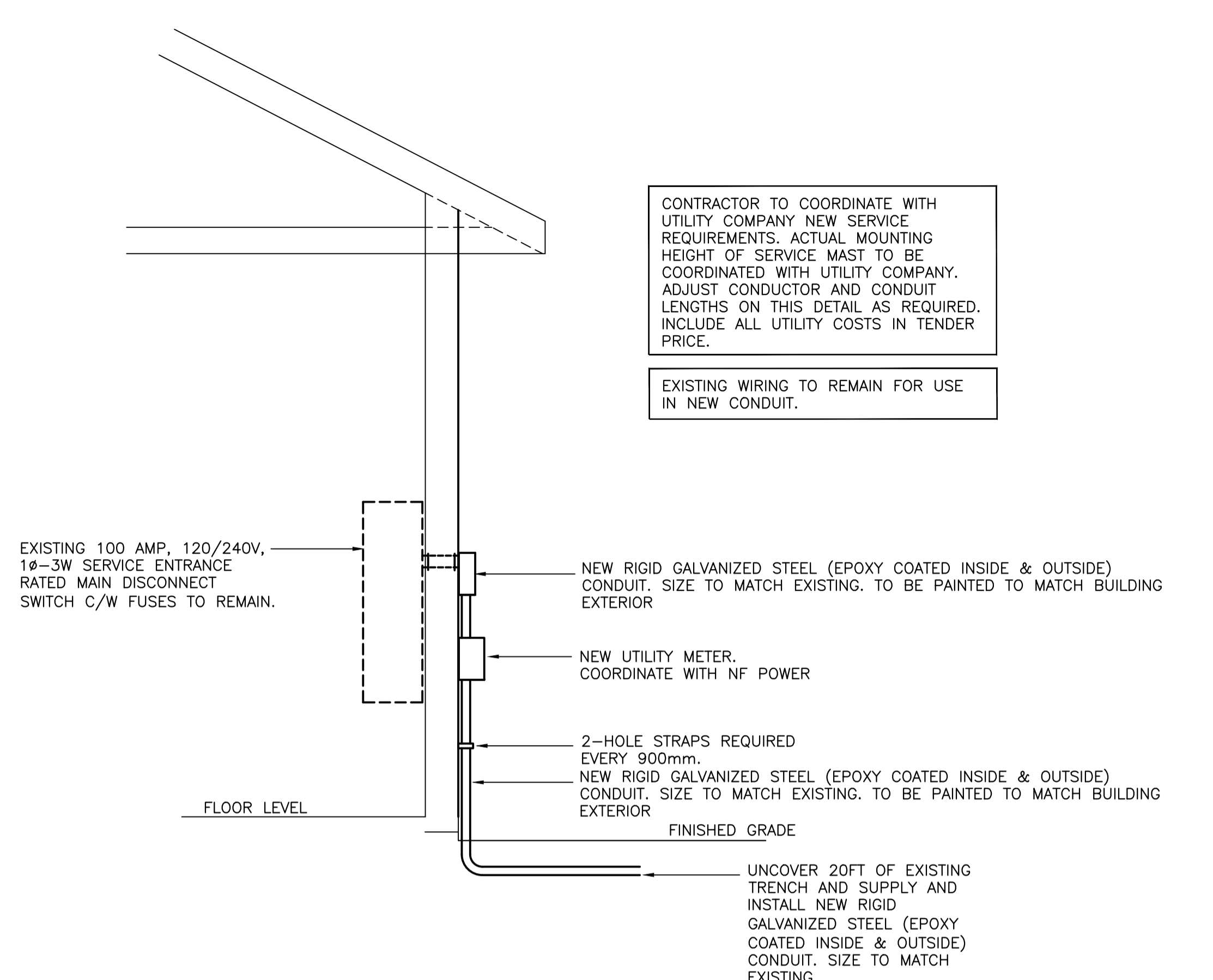
project _____ projet _____

CAPE SPEAR NHS LIGHTHOUSE DOME RECAPITALISATION
ST. JOHN'S, NL

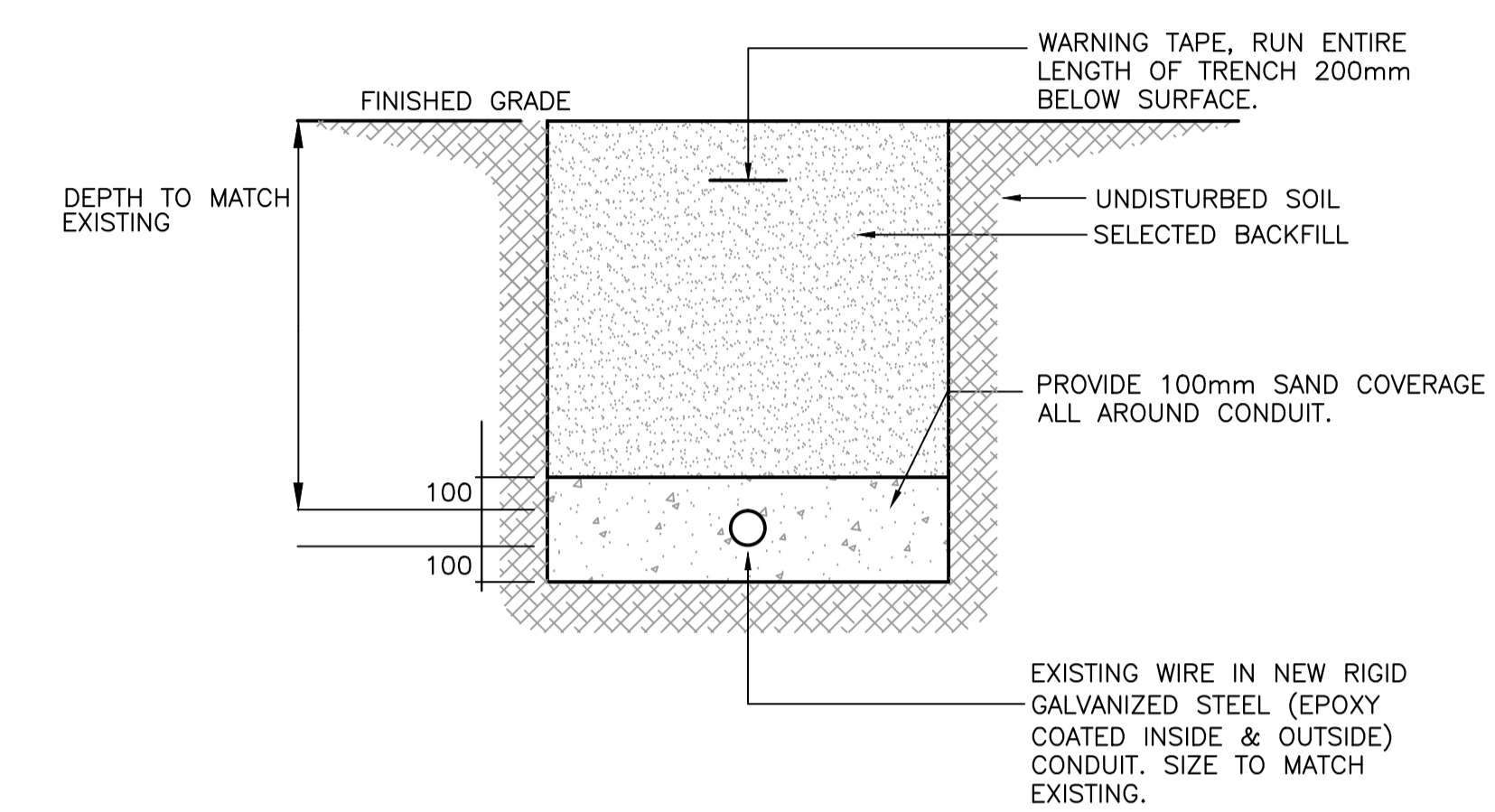
drawing _____ dessin _____

ELECTRICAL DETAILS

designed	F. EARLE	conçu
date	FEB. 2018	
drawn	B. COLLETT	dessiné
date	FEB. 2018	
approved		approuvé
date		
Tender		Soumission
PWSC Project Manager	Administrateur de projets TPSGC	
project number	no. du projet	
PCAN5582.00		
drawing no.	no. du dessin	
E2		



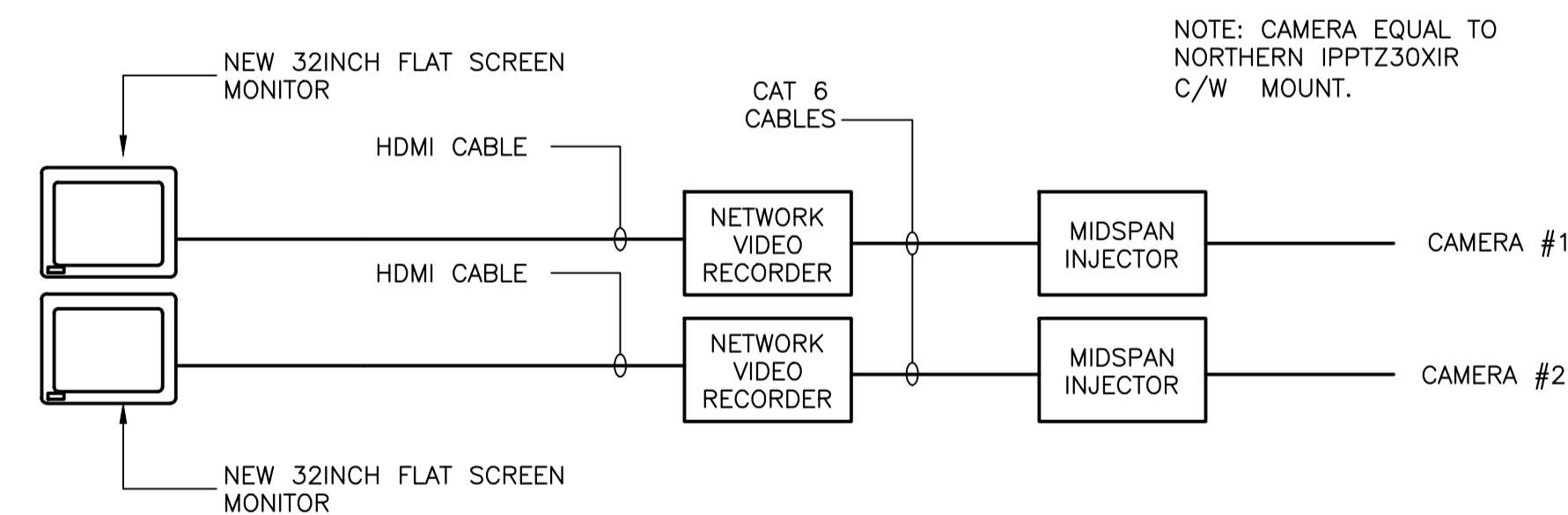
SERVICE ENTRANCE DETAIL
N.T.S.



TRENCH DETAIL
N.T.S.

LEGEND

- WIRING DEVICES**
- DUPLEX U-GROUND RECEPTACLE. 120 VOLT, 15 AMP, SPECIFICATION GRADE. WHITE & C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 400mm ABOVE FINISHED FLOOR. UTILIZE EXISTING SPARE 15 AMP BREAKER. (2 #12 RW90 + 1 #12 TW GRD IN 21mm EMT CONDUIT)
- DATA/TELEPHONE/CABLE**
- HDMI OUTLET C/W COVERPLATE. WALL MOUNT 400mm A.F.F. UNLESS OTHERWISE NOTED. PROVIDE 21mm EMT RUN FROM OUTLET BOX TO ACCESSIBLE CEILING SPACE, C/W HDMI CABLE.
- SECURITY SYSTEM**
- SECURITY CAMERA.



SECURITY RISER DETAIL
N.T.S.

- NOTES:**
- SUPPLY AND INSTALL ALL DEVICES AS PER MANUFACTURERS REQUIREMENTS. ALL LOW VOLTAGE WIRING TO BE INSTALLED IN 21mm. EMT CONDUIT OR WIREMOLD AS REQUIRED.
 - EXACT LOCATIONS OF ALL DEVICES TO BE COORDINATED ON SITE. REFER TO FLOOR PLAN FOR DEVICE LOCATION AND QUANTITY.
 - CONTRACTOR SHALL SUPPLY AND ADJUST CAMERA LENS FIELD OF VIEW AT SITE TO MEET CUSTOMER SITE REQUIREMENTS. PROVIDE ALL REQUIRED LENSES.
 - PRODUCTS LISTED ARE THE STANDARD OF ACCEPTANCE. APPROVED EQUALS SHALL BE CONSIDERED.