



Project

# REHABILITATION OF BUTLER'S BARRACKS MEN'S BARRACKS BUILDING





Address  
 440 King Street  
 Niagara National Historic Sites  
 Niagara-on-the-Lake, Ontario

Project no.  
 000803

Issued for  
**TENDER**

Date  
 March 13, 2017

Prepared for  
 Chris Zoetewey  
 Southwestern Ontario Field Unit, Parks Canada

CIVIL	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECTURAL
<p><u>CONSULTANT AND DRAWING LIST</u></p> <p>MMM Group            920 Princess Street, Suite 101            Kingston, Ontario</p> <p>C1 Sanitary Plan</p>	<p><u>CONSULTANT AND DRAWING LIST</u></p> <p>WSP Canada Inc.            55 King Street, Suite 600            St. Catharines, Ontario</p> <p>E1 Legends, Schedules and Details            E2 Power and Communications Layouts            E3 Fire Alarm and Lighting Layouts            E4 Partial Site Plan, Fire Alarm Riser            E5 Electrical Demolition Plans</p> 	<p><u>CONSULTANT AND DRAWING LIST</u></p> <p>WSP Canada Inc.            55 King Street, Suite 600            St. Catharines, Ontario</p> <p>M1 Legends, Schedules and Details            M2 Ground and Second Floor HVAC Layout            M3 Attic Floor HVAC and Ground Floor Plumbing            M4 Ground and Second Floor Sprinkler Layouts</p> 	<p><u>CONSULTANT AND DRAWING LIST</u></p> <p>MMM Group            920 Princess Street, Suite 101            Kingston, Ontario</p>  <p>S1 General Notes            S2 New Wood Blocking Layout            S3 Cedar Shingle Roof Details            S4 Flashing Details at Chimney &amp; Top of window            S5 Window Details            S6 Wall Details &amp; Window at mechanical room            S7 Masonry Joint Details            S8 Exterior Shutter Door Details            S9 Temporary Support (Schematic)            S10 Beam &amp; Column Replacement Details            S11 Beam over Stairs and column            S12 Stair Support Details            S13 Minimum Floor Replacement Layout &amp; Plywood Wall Reinforcement</p>	<p><u>CONSULTANT AND DRAWING LIST</u></p> <p>ERA Architects            10 St. Mary Street, Suite 801            Toronto, Ontario</p>  <p>A001 Site Plan            A101 Assemblies and Fire Separation Diagram            A102 Door and Finish Schedules            A201 Demolition and Removals Plans - Ground &amp; Second            A301 Proposed Plans - Ground &amp; Second            A302 Proposed Plans - Attic            A303 Furniture Layout            A401 Building Sections            A501 Interior Elevations            A502 Interior Elevations - Washrooms            A601 Stair Details            A602 General Details</p>



**GENERAL NOTES**

1. DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS REQUIRED TO PERFORM THE WORK AND TO REPORT ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS TO THE ARCHITECT BEFORE COMMENCING WORK.
2. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, INCLUDING: CONSERVATION, STRUCTURAL AND MECHANICAL DRAWINGS, AS WELL AS ALL SPECIFICATIONS.
3. ANY ISSUES THAT ARISE ON SITE DURING CONSTRUCTION SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER OR DESIGNATE.
4. ANY AREAS OF DISREPAIR OR DETERIORATION NOT DESCRIBED IN THESE DRAWINGS SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION GOT THE PROJECT MANAGER OR DESIGNATE.
5. DIMENSIONS AND AREAS ARE FOR GUIDANCE ON EXTENT ONLY. THIS DOES NOT RELIEVE THE CONTRACTOR OR RESPONSIBILITY TO VISIT THE SITE AND TAKE ALL NECESSARY MEASUREMENTS.

General Notes 3  
NTS A001

**SITE INFORMATION & PROJECT STATISTICS**

**STREET ADDRESS**  
440 KING STREET  
NIAGARA NATIONAL HISTORIC SITE  
NIAGARA-ON-THE-LAKE, ONTARIO

**HERITAGE DESIGNATION**  
"RECOGNIZED" FEDERAL HERITAGE BUILDINGS

**INTENT**  
ENSURE THE IMMEDIATE STABILIZATION AND LONG-TERM CONSERVATION/PRESERVATION OF THESE NATIONAL TREASURES

Site Information and Project Statistics 2  
NTS A001

3	17-03-13	TENDER	SL	JK
2	16-09-30	99% REVIEW	SL	JK
1	16-09-09	66% REVIEW	SL	JK
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision	
A	A Detail number No. du détail
B	B Location dwg. no. No. sur dessin
C	C Drawing sheet no. No. du dessin

**E R A**

E.R.A. Architects Inc., 10 St. Mary St. Suite 801, Toronto, Canada, M4Y 1P9  
T: (416) 963-4497 F: (416) 963-8761 info@eraarch.ca www.eraarch.ca

ONTARIO ASSOCIATION OF ARCHITECTS  
EDWIN J. BRUNSE  
Licence 4498

Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

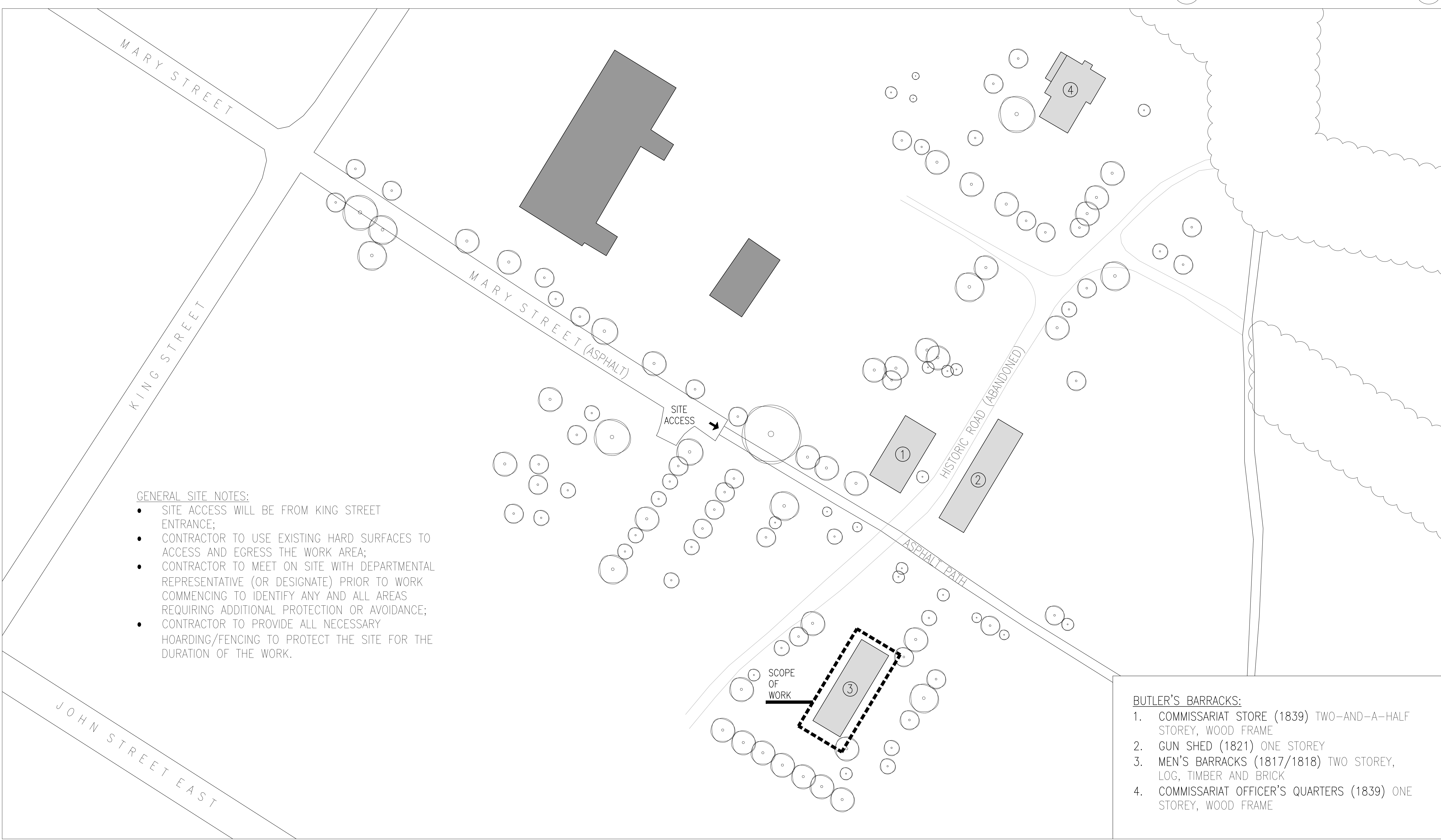
NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin

**SITE PLAN**

Scale / Echelle	AS NOTED
Drawn by/ Dessiné par	Date
SL	2017-03-13
Designed by/ Conçu par	Date
SL	2017-03-13
Checked by/ Vérifié par	Date
JK	2017-03-13
Approved by / Approuvé par	Date
JK	2017-03-13

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		A001
Drawing Reference No./Numéro de Référence du Dessin		A001



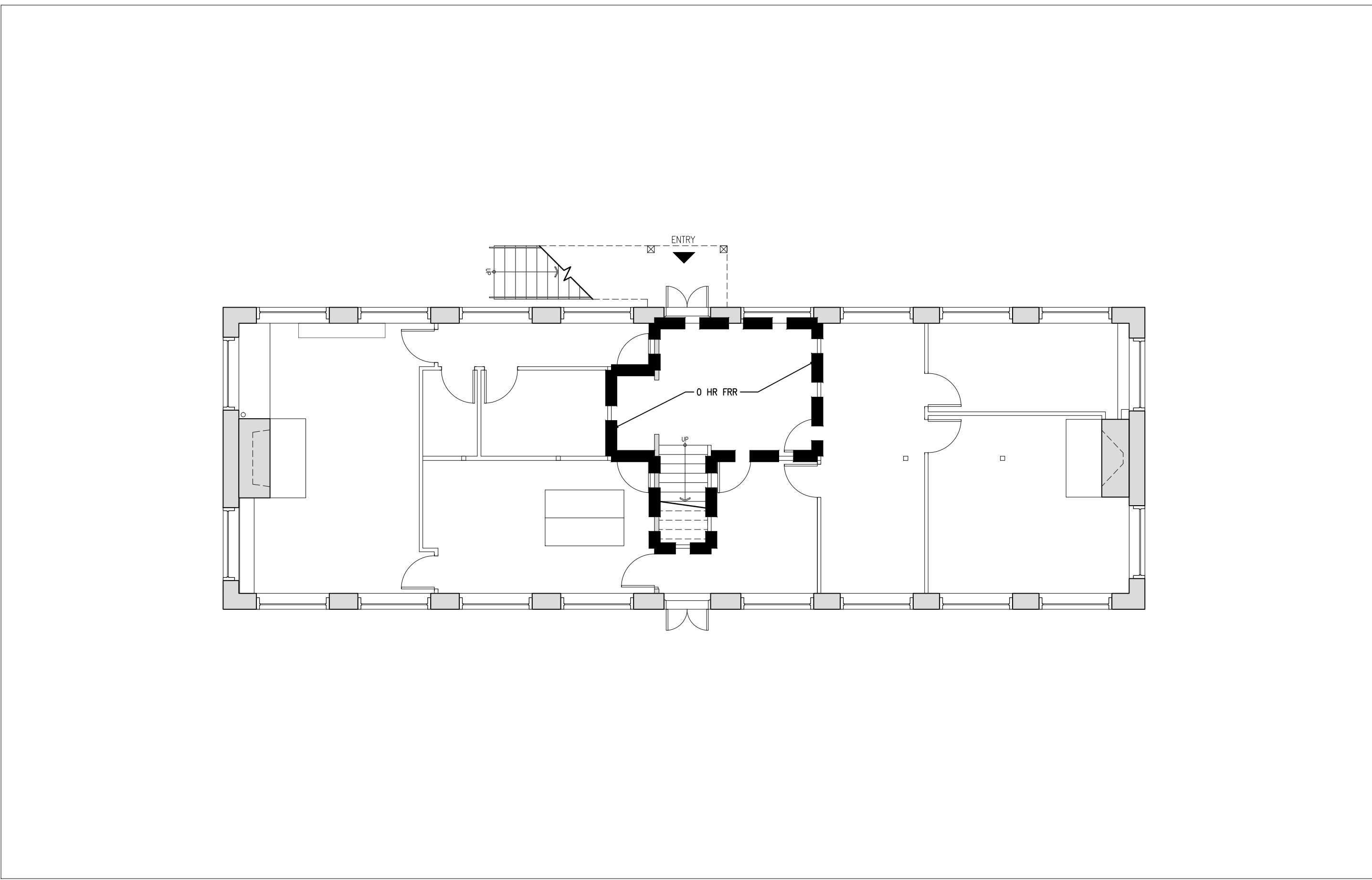
- GENERAL SITE NOTES:**
- SITE ACCESS WILL BE FROM KING STREET ENTRANCE;
  - CONTRACTOR TO USE EXISTING HARD SURFACES TO ACCESS AND EGRESS THE WORK AREA;
  - CONTRACTOR TO MEET ON SITE WITH DEPARTMENTAL REPRESENTATIVE (OR DESIGNATE) PRIOR TO WORK COMMENCING TO IDENTIFY ANY AND ALL AREAS REQUIRING ADDITIONAL PROTECTION OR AVOIDANCE;
  - CONTRACTOR TO PROVIDE ALL NECESSARY HOARDING/FENCING TO PROTECT THE SITE FOR THE DURATION OF THE WORK.

- BUTLER'S BARRACKS:**
1. COMMISSARIAT STORE (1839) TWO-AND-A-HALF STOREY, WOOD FRAME
  2. GUN SHED (1821) ONE STOREY
  3. MEN'S BARRACKS (1817/1818) TWO STOREY, LOG, TIMBER AND BRICK
  4. COMMISSARIAT OFFICER'S QUARTERS (1839) ONE STOREY, WOOD FRAME

Site Plan 1  
Scale 1:500 A001

TIME PLOTTED  
DATE PLOTTED  
PERSON PLOTTING  
SCALE OF PLOT  
VIEW PLOTTED  
DRAWING NAME





Ground Floor Fire Separation Diagram 3 A101  
Scale 1:100

**Name of Practice:** ERA Architects Inc.  
Enter address and contact information here: 10 St. Mary Street, Suite 801 Toronto, ON M4Y 1P9

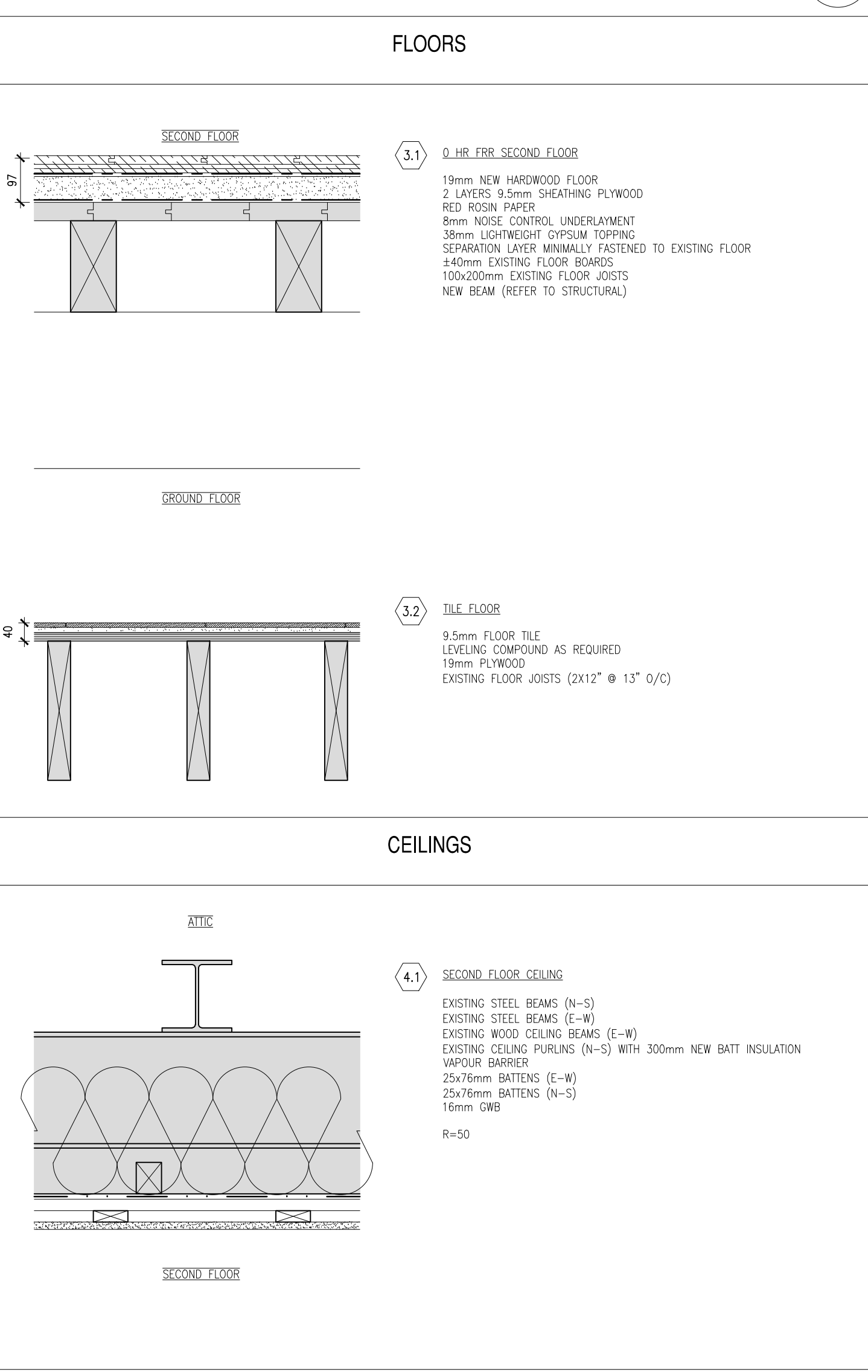
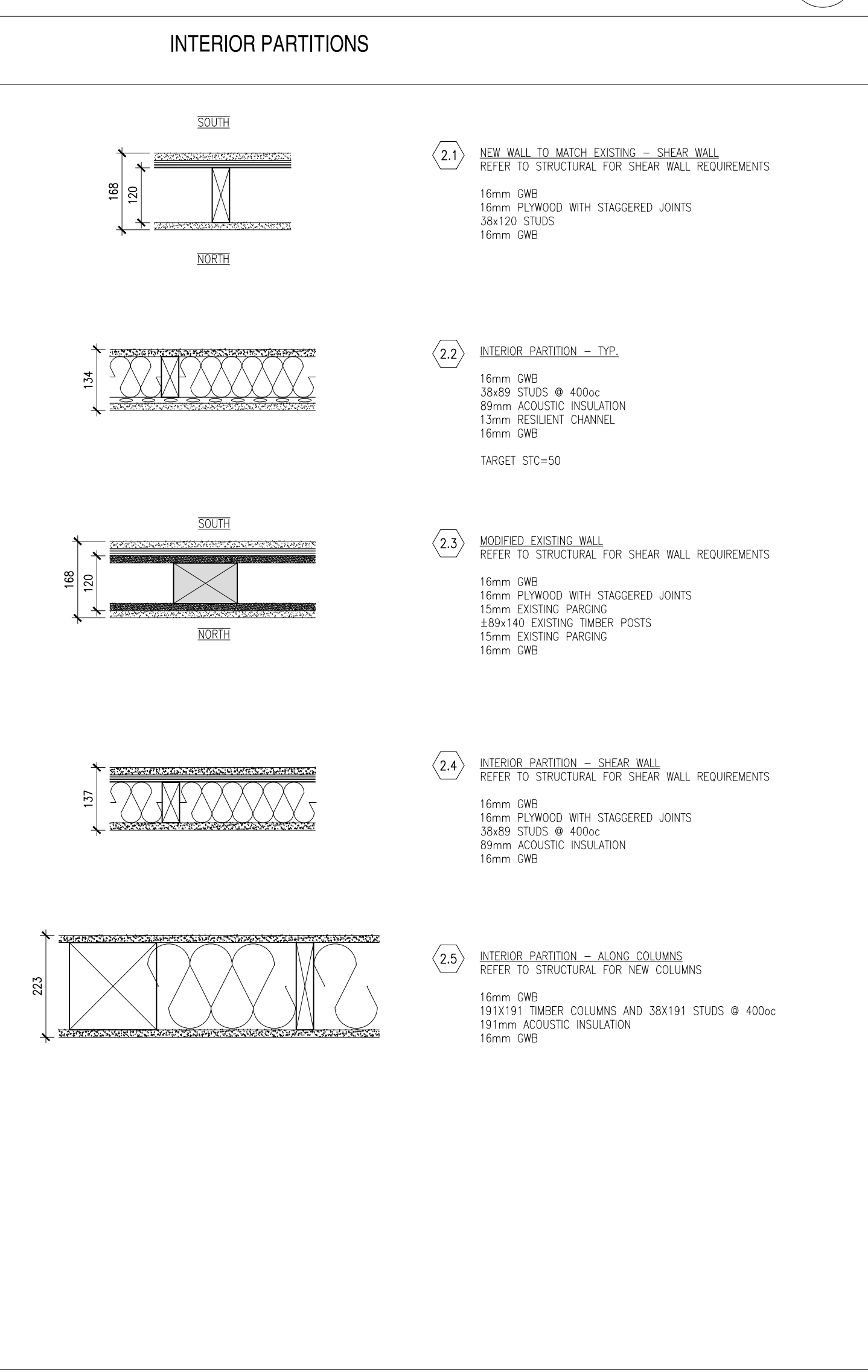
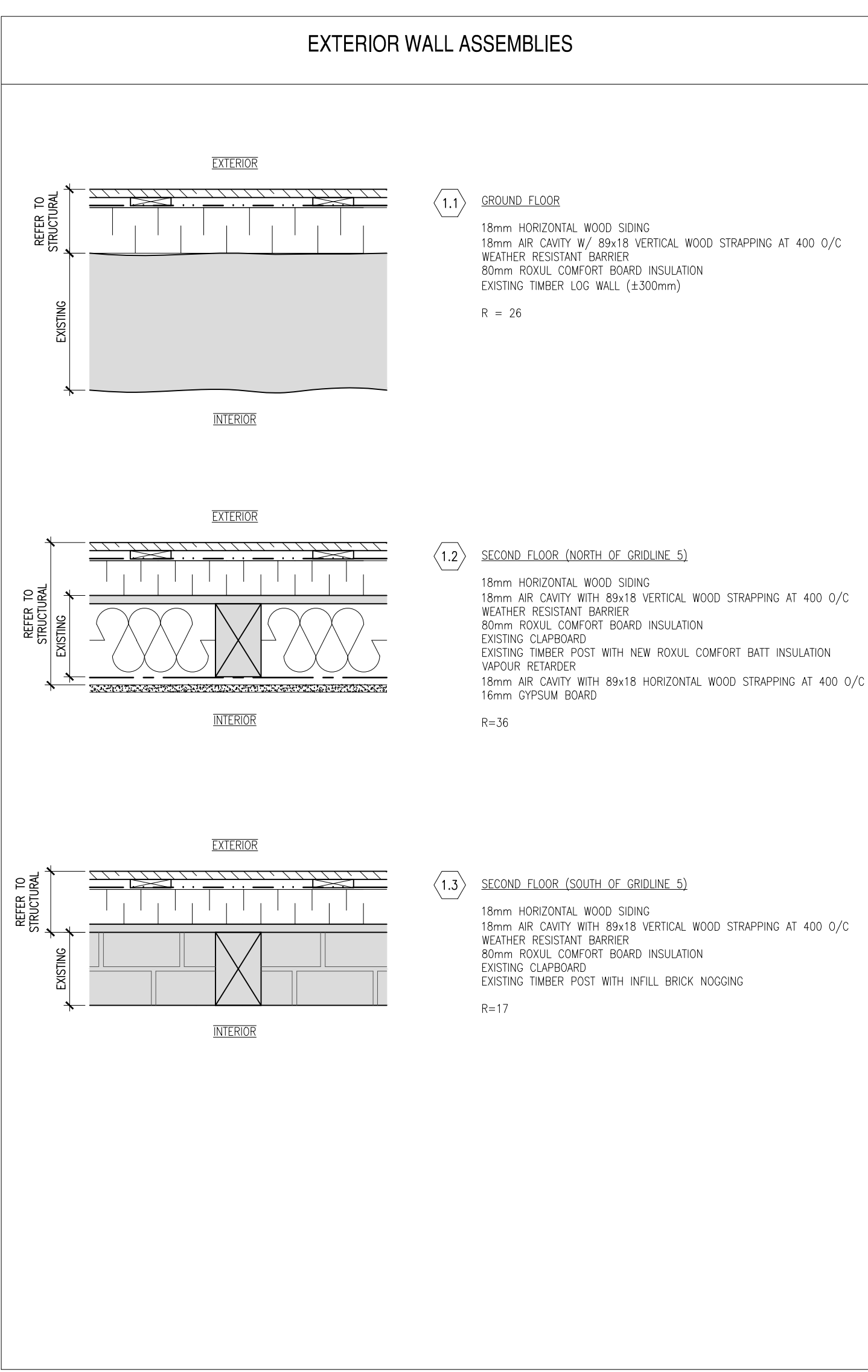
**Name of Project:** Butler's Barracks  
Enter name here: Men's Barracks - Office Renovation

**Location:** 440 King St. N, Niagara-on-the-Lake, ON  
Enter address here:

Ontario Building Code Data Matrix, Part II – Renovation of Existing Building		Building Code Reference
11.1	Existing Building classification: Describe Existing Use: <u>Museum</u> Construction Index: <u>C11</u> Hazard Index: <u>H1B</u> <input type="checkbox"/> Not Applicable (no change of major occupancy)	11.2.1 T 11.2.1.1A T 11.2.1.1B to N
11.2	Alteration to Existing Building is: Basic Renovation <input checked="" type="checkbox"/> Extensive Renovation <input type="checkbox"/>	11.3.3.1 11.3.3.2
11.3	Reduction in Performance Level: Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage-system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.4	Compensating Construction: Structural: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (explain) Existing beam and columns to be replaced Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Change of major occupancy: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (explain) Change from museum to office use Plumbing: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (explain) New washrooms, as none exist Sewage system: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (explain) New system, as none exists	11.4.3 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6
11.5	Compliance Alternatives Proposed: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (give number(s)) T11.4.3.4A col. 4, Early warning + sprinklers provided	11.5.1

Ontario Building Code Data Matrix, Part II © Ontario Association of Architects December, 2013

Part 11 OBC Data Matrix 2 NTS A101



Assemblies 1 A101  
Scale 1:10

No.	Date	Description	Drawn by	Approved
3	17-03-13	TENDER	SL	JK
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**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO  
Drawing title / Titre du dessin  
**CONSTRUCTION ASSEMBLIES & FIRE SEPARATION DIAGRAMS**

Scale / Echelle  
AS NOTED

Drawn by / Dessiné par	Date	
SL	2017-03-13	
Designed by / Conçu par	Date	
SL	2017-03-13	
Checked by / Vérifié par	Date	
JK	2017-03-13	
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30224201		A101

Drawing Reference No./Numéro de Référence du Dessin

TIME PLOTTED

DATE PLOTTED

PERSON PLOTTING

SCALE OF PLOT

VIEW PLOTTED

DRAWING NAME



TIME PLOTTED DATE PLOTTED PERSON PLOTTING SCALE OF PLOT VIEW PLOTTED DRAWING NAME

**HARDWARE GROUPS**

**GROUP A: ENTRANCE GLAZED DOORS**  
Provide each SSL door(s) with the following:

Qty	Description	Catalog Number	Finish	Mfr
3 EA	HINGE	3CB1 114 X 102	652	IVE
1 EA	EXIT DOOR LOCK	SARGENT 8225 LNU	630	SAR
1 EA	OVERHEAD STOP	1005	630	GLY
1 EA	DOOR SWEEP	W-24-S X DR WIDTH	428	KNC
1 EA	THRESHOLD	CT-45 X SIZE TO SUIT	AL	KNC
1 EA	WEATHERSTRIP	BY DOOR/FRAME MANUFACTURER		

**GROUP B: ENTRANCE GLAZED DOORS (ACCESSIBLE)**  
Provide each SSL door(s) with the following:

Qty	Description	Catalog Number	Finish	Mfr
3 EA	HINGE	3CB1 114 X 102	652	IVE
1 EA	EXIT DOOR LOCK	SARGENT 8225 LNU	630	SAR
1 EA	OVERHEAD STOP	1005 AOU	630	GLY
1 EA	SURE AUTO OPERATOR	9542 MS	ANGCR	LCN
1 EA	ACTUATOR, WALL MOUNT 6" DIA	8310-852	630	LCN
1 EA	ESCUICHEN 6" DIA	8310-876	489	LCN
1 EA	DOOR SWEEP	W-24-S X DR WIDTH	428	KNC
1 EA	THRESHOLD	CT-45 X SIZE TO SUIT	AL	KNC
1 EA	WEATHERSTRIP	BY DOOR/FRAME MANUFACTURER		

**GROUP C: RECEPTION HALL DOORS**  
Provide each SSL door(s) with the following:

Qty	Description	Catalog Number	Finish	Mfr
3 EA	HINGE	3CB1 114 X 102	652	IVE
1 EA	PASSAGE LOCK	SARGENT 8215 LNU	630	SAR
1 EA	WALL STOP	WS406/407CX	630	IVE
1 EA	SMOKE SEAL	W-21(24H, 14W)	BLK	KNC

**GROUP D: WC**  
Provide each SSL door(s) with the following:

Qty	Description	Catalog Number	Finish	Mfr
3 EA	HINGE	3CB1 114 X 102	652	IVE
1 EA	PRIVATE LOCK	SARGENT 8265 LNU	630	SAR
1 EA	OVERHEAD STOP	1005	630	GLY
1 EA	KICK PLATE	8400 203mm X 40mm LDB BAE NH-A	Finish	Mfr

**GROUP E: WC (ACCESSIBLE)**  
Provide each SSL door(s) with the following:

Qty	Description	Catalog Number	Finish	Mfr
3 EA	HINGE	3CB1 114 X 102	652	IVE
1 EA	STOREROOM LOCK	SARGENT 8204 LNU	630	SAR
1 EA	ELECTRIC STRIKE	6211 FSE 24VDC CON	630	VON
1 EA	OVERHEAD STOP	1005 AOU	630	GLY
1 EA	SURE AUTO OPERATOR	9542 MS	ANGCR	LCN
2 EA	ACTUATOR, WALL MOUNT 6" DIA	8310-852	630	LCN
2 EA	ESCUICHEN 6" DIA	8310-876	489	LCN
1 EA	KICK PLATE	8400 203mm X 40mm LDB BAE NH-A	630	IVE
1 EA	PUSH TO LOCK	CM-400/8	630	CAM
1 EA	BUTTON DOOR CONTACT	679-05HM	BLK	SCC

**GROUP F: OFFICE (W/ LOCK)**  
Provide each SSL door(s) with the following:

Qty	Description	Catalog Number	Finish	Mfr
3 EA	HINGE	3CB1 114 X 102	652	IVE
1 EA	OFFICE LOCK	SARGENT 8205 LNU	630	SAR
1 EA	WALL STOP	WS406/407CX	630	IVE

**GROUP G: OFFICE (NO LOCK)**  
Provide each SSL door(s) with the following:

Qty	Description	Catalog Number	Finish	Mfr
3 EA	HINGE	3CB1 114 X 102	652	IVE
1 EA	PASSAGE LOCK	SARGENT 8215 LNU	630	SAR
1 EA	WALL STOP	WS406/407CX	630	IVE

**Hardware Groups** 4  
NTS A102

**FINISHES SCHEDULE**

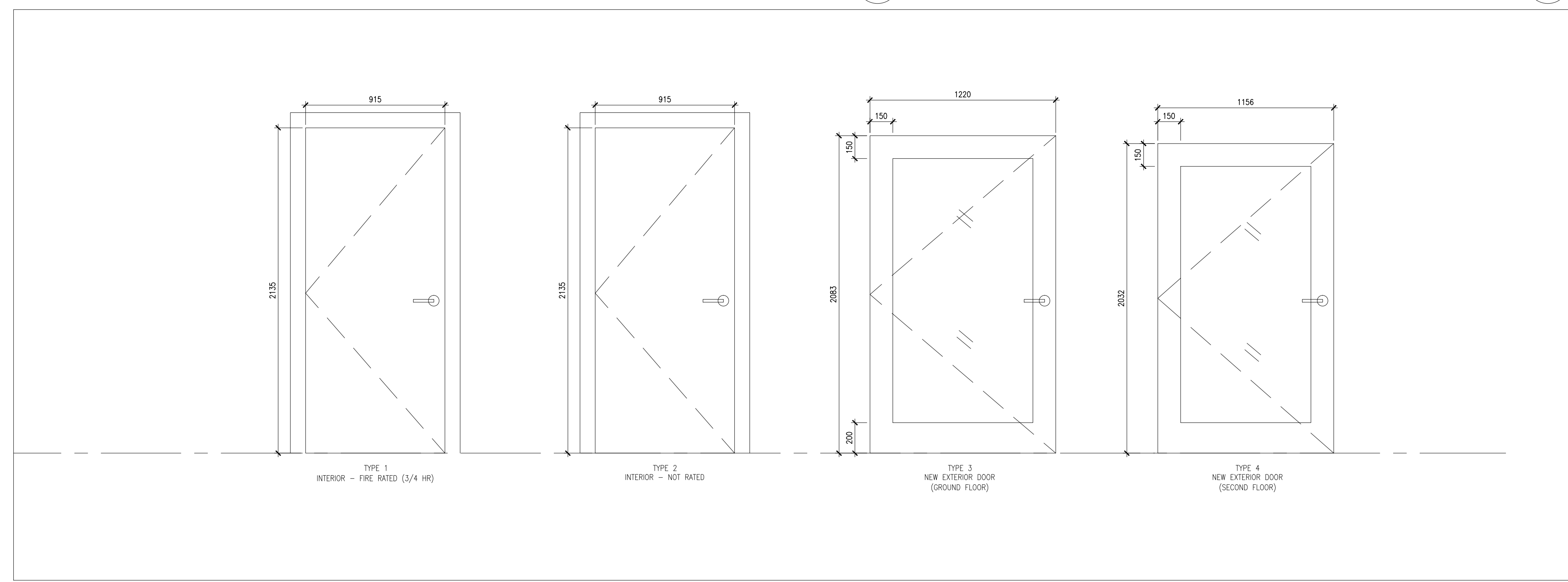
ROOM NAME	ROOM NO.	FLOOR				WALLS			CEILING		
		MATL	FINISH	BASE	MATL	FINISH	MATL	FINISH	MATL	FINISH	HEIGHT
<b>GROUND FLOOR</b>											
CONFERENCE ROOM	101	EXIST. HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	EXPOSED (EXISTING)	-	-	-	2750
WC	102	TILE	NA	WOOD	DW/TILE	PANT	EXPOSED (EXISTING)	-	-	-	2750
WC (BARRIER FREE)	103	TILE	NA	WOOD	DW/TILE	PANT	EXPOSED (EXISTING)	-	-	-	2750
RECEPTION	104	EXIST. HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	EXPOSED (EXISTING)	-	-	-	2750
-	105	EXIST. HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	EXPOSED (EXISTING)	-	-	-	2750
MECHANICAL	106	EXIST. HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	EXPOSED (EXISTING)	-	-	-	2750
-	107	EXIST. HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	EXPOSED (EXISTING)	-	-	-	2750
-	108	EXIST. HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	EXPOSED (EXISTING)	-	-	-	2750
STAFF MUDROOM	109	EXIST. HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	EXPOSED (EXISTING)	-	-	-	2750
KITCHEN	110	EXIST. HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	EXPOSED (EXISTING)	-	-	-	2750
SERVER ROOM	111	EXIST. HARD WOOD	VARNISH	-	-	-	EXPOSED (EXISTING)	-	-	-	2750
<b>SECOND FLOOR</b>											
-	201	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
-	202	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
QUIET ROOM	203	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
UPPER HALL	204	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
-	205	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
-	206	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
CONFERENCE ROOM	207	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
-	208	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
-	209	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
-	210	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
-	211	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	DRYWALL	PANT	DRYWALL	PANT	2650
-	212	HARD WOOD	VARNISH	WOOD	DRYWALL	PANT	RETAINED	-	-	-	2728

**Room Finish Schedule** 3  
NTS A102

**DOOR SCHEDULE**

DOOR NO.	ROOM NAME	ROOM NO.	TYPE	WIDTH	HEIGHT	DOOR PANEL				FRAME				HARDWARE				FIRE RATING	
						THICK	MATL	FINISH	CORE	MATL	FINISH	SMOKE SEAL	GROUP	OPENER	LOCK	WALL	DOOR		
<b>GROUND FLOOR</b>																			
D02	RECEPTION	104	1	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	YES	C	-	-	0 HR	0 HR		
D04	MECHANICAL	106	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	F	-	YES	-	-		
D05	SENKER ROOM	109	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	F	-	YES	-	-		
D06	STAFF MUDROOM	109	1	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	YES	C	-	-	0 HR	0 HR		
D08	KITCHEN	110	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	G	-	-	-	-		
D09	CONFERENCE ROOM	101	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	G	-	-	-	-		
D10	CONFERENCE ROOM	101	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	G	-	-	-	-		
D11	WC	102	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	D	-	-	-	-		
D12	WC (BF)	103	2	965	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	E	YES	-	-	-		
D13	HALL	111	1	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	YES	C	-	-	0 HR	0 HR		
D14	KITCHEN	110	1	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	YES	C	-	-	0 HR	0 HR		
<b>SECOND FLOOR</b>																			
D21	-	205	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	G	-	-	-	-		
D22	-	206	2	860	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	G	-	-	-	-		
D23	-	206	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	F	-	YES	-	-		
D24	CONFERENCE ROOM	207	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	G	-	-	-	-		
D25	-	209	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	F	-	YES	-	-		
D26	-	210	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	G	-	-	-	-		
D27	QUIET ROOM	203	2	915	2135	45	WOOD	PANT	WOOD	WOOD	PANT	-	G	-	-	-	-		
<b>EXTERIOR</b>																			
D01	REFER TO STRUCTURAL																		
D07	REFER TO STRUCTURAL																		
D20	REFER TO STRUCTURAL																		
D15	RECEPTION	104	3	1190	2083	45	WOOD	PANT	WOOD	WOOD	PANT	YES	B	YES	YES	-	0 HR		
D16	STAFF MUDROOM	109	3	1190	2083	45	WOOD	PANT	WOOD	WOOD	PANT	-	A	-	YES	-	-		
D28	UPPER HALL	204	4	1105	2032	45	WOOD	PANT	WOOD	WOOD	PANT	-	A	-	YES	-	-		

**Door Schedule** 2  
NTS A102



**Door Elevations** 1  
Scale 1:20 A102

No.	Date	Description	Drawn by	Approved
3	17-03-13	TENDER	SL	JK
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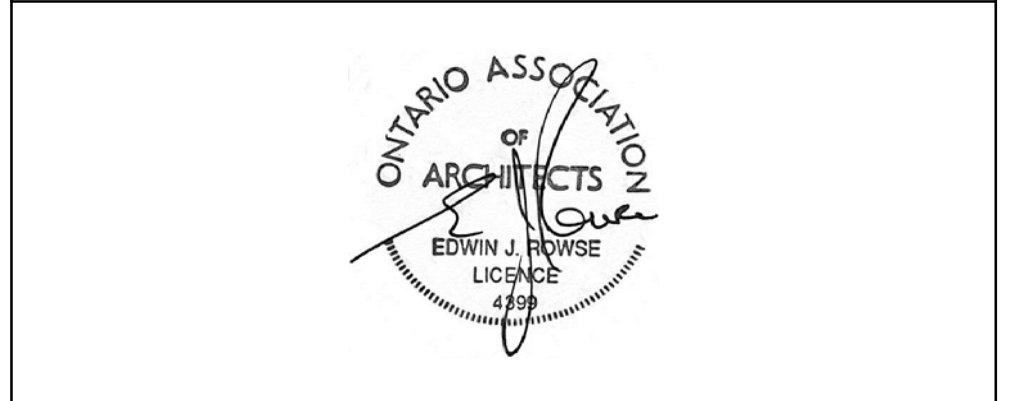
A Detail number  
No. du détail

B Location dwg. no.  
No. sur dessin

C Drawing sheet no.  
No. du dessin

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NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin  
**DOOR & FINISH SCHEDULES**

Scale / Echelle  
AS NOTED

Drawn by / Dessiné par  
SL Date 2017-03-13

Designed by / Conçu par  
SL Date 2017-03-13

Checked by / Vérifié par  
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JK Date 2017-03-13

Project No./No. du projet 30224201 Client No./No du Client Sheet No./Feuille No. A102

Drawing Reference No./Numéro de Référence du Dessin





**GENERAL NOTES:**

1. PROTECT EXISTING GROUND FLOOR FINISH THROUGHOUT CONSTRUCTION WITH 2 LAYERS OF PLYWOOD (12mm EACH), WITH JOINTS STAGGERED, SCREWED TOGETHER
2. PROTECT ALL INTERIOR BRICK (INCLUDING BUT NOT LIMITED TO CHIMNEYS AND NOGGING) WITH PLYWOOD SHEATHING TO THEIR FULL EXTENT. DO NOT FASTEN DIRECTLY INTO BRICK OR MORTAR.

3	17-03-13	TENDER	SL	JK
2	16-09-30	99% REVIEW	SL	JK
1	16-09-09	66% REVIEW	SL	JK

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
Revision / Révision				

A C	A Detail number No. du détail	A B C
	B Location dwg. no. No. sur dessin	
	C Drawing sheet no. No. du dessin	

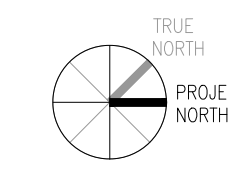


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Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

**NIAGARA-ON-THE-LAKE**    **ONTARIO**  
 Drawing title / Titre du dessin  
**DEMOLITION & REMOVALS**



Scale / Echelle AS NOTED	
Drawn by / Dessiné par SL	Date 2017-03-13
Designed by / Conçu par SL	Date 2017-03-13
Checked by / Vérifié par JK	Date 2017-03-13
Approved by / Approuvé par JK	Date 2017-03-13

Project No./No. du projet 30224201	Client No./No du Client	Sheet No./ Feuille No. <b>A202</b>
Drawing Reference No./Numéro de Référence du Dessin		

Crawl Space 1  
 Scale 1:50 A202



DRAWING NAME    VIEW PLOTTED    SCALE OF PLOT    PERSON PLOTTING    DATE PLOTTED    TIME PLOTTED

**GENERAL NOTES:**

1. PROTECT EXISTING GROUND FLOOR FINISH THROUGHOUT CONSTRUCTION WITH 2 LAYERS OF PLYWOOD (12mm EACH), WITH JOINTS STAGGERED, SCREWED TOGETHER
2. PROTECT ALL INTERIOR BRICK (INCLUDING BUT NOT LIMITED TO CHIMNEYS AND NOGGING) WITH PLYWOOD SHEATHING TO THEIR FULL EXTENT. DO NOT FASTEN DIRECTLY INTO BRICK OR MORTAR.

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
3	17-03-13	TENDER	SL	JK
2	16-09-30	99% REVIEW	SL	JK
1	16-09-09	66% REVIEW	SL	JK

Revision / Révision	
A	A Detail number / No. du détail
B	B Location dwg. no. / No. sur dessin
C	C Drawing sheet no. / No. du dessin



Project title / Titre du projet

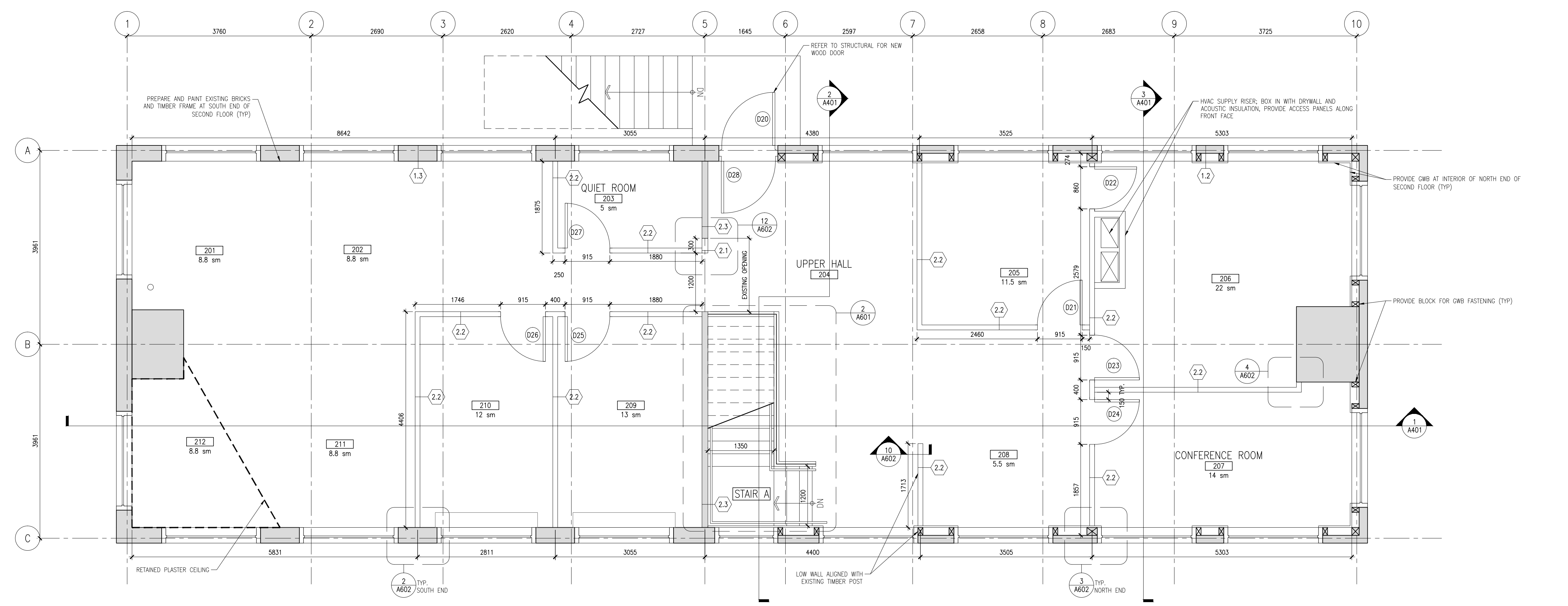
## REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS

NIAGARA-ON-THE-LAKE ONTARIO

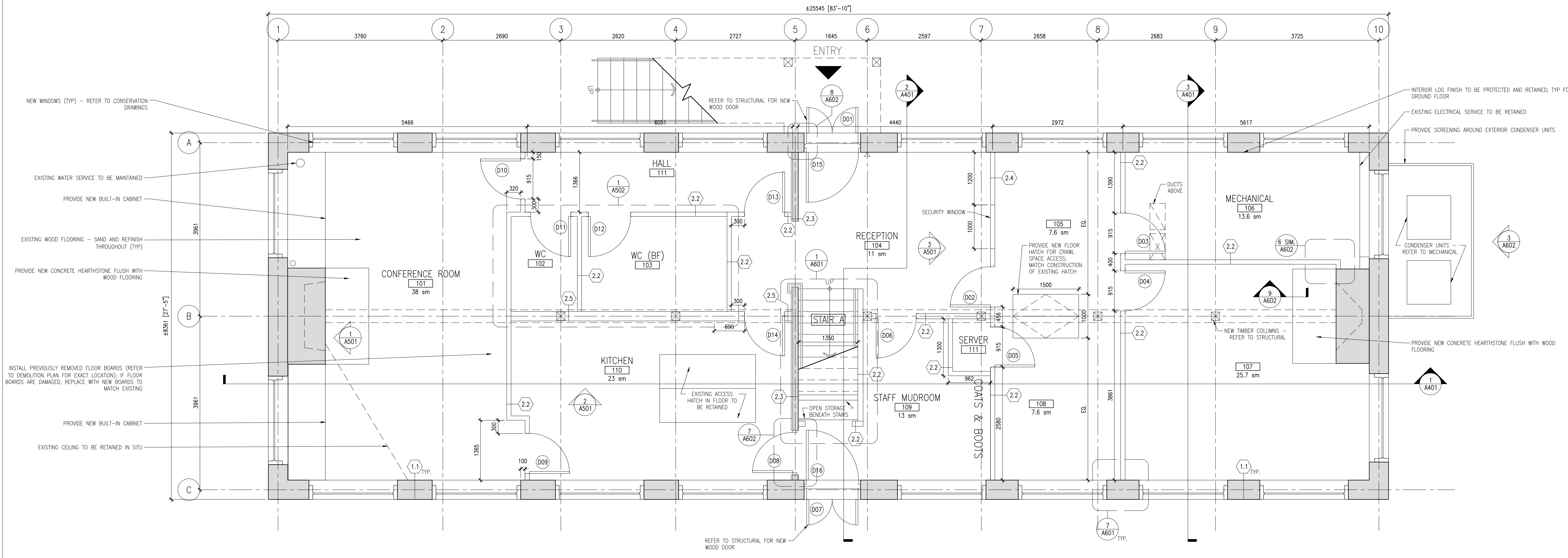
### FLOOR PLANS

Scale / Echelle	
AS NOTED	
Drawn by / Dessiné par	Date
SL	2017-03-13
Designed by / Conçu par	Date
SL	2017-03-13
Checked by / Vérifié par	Date
JK	2017-03-13
Approved by / Approuvé par	Date
JK	2017-03-13

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		A301
Drawing Reference No./Numéro de Référence du Dessin		A301



Second Floor Plan 2  
Scale 1:50 A301



Ground Floor Plan 1  
Scale 1:50 A301

DRAWING NAME  
VIEW PLOTTED  
SCALE OF PLOT  
PERSON PLOTTING  
DATE PLOTTED  
TIME PLOTTED

**GENERAL NOTES:**

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2. PROTECT ALL INTERIOR BRICK (INCLUDING BUT NOT LIMITED TO CHIMNEYS AND NOGGING) WITH PLYWOOD SHEATHING TO THEIR FULL EXTENT. DO NOT FASTEN DIRECTLY INTO BRICK OR MORTAR.

3	17-03-13	TENDER	SL	JK
2	16-09-30	99% REVIEW	SL	JK
1	16-09-09	66% REVIEW	SL	JK

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
Revision / Révision				

A	A
C	B
	C



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Project title / Titre du projet

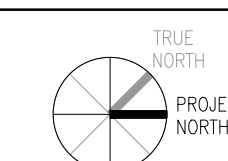
**REHABILITATION OF MEN'S BARRACKS BUILDING  
BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE

ONTARIO

Drawing title / Titre du dessin

**FLOOR PLANS**



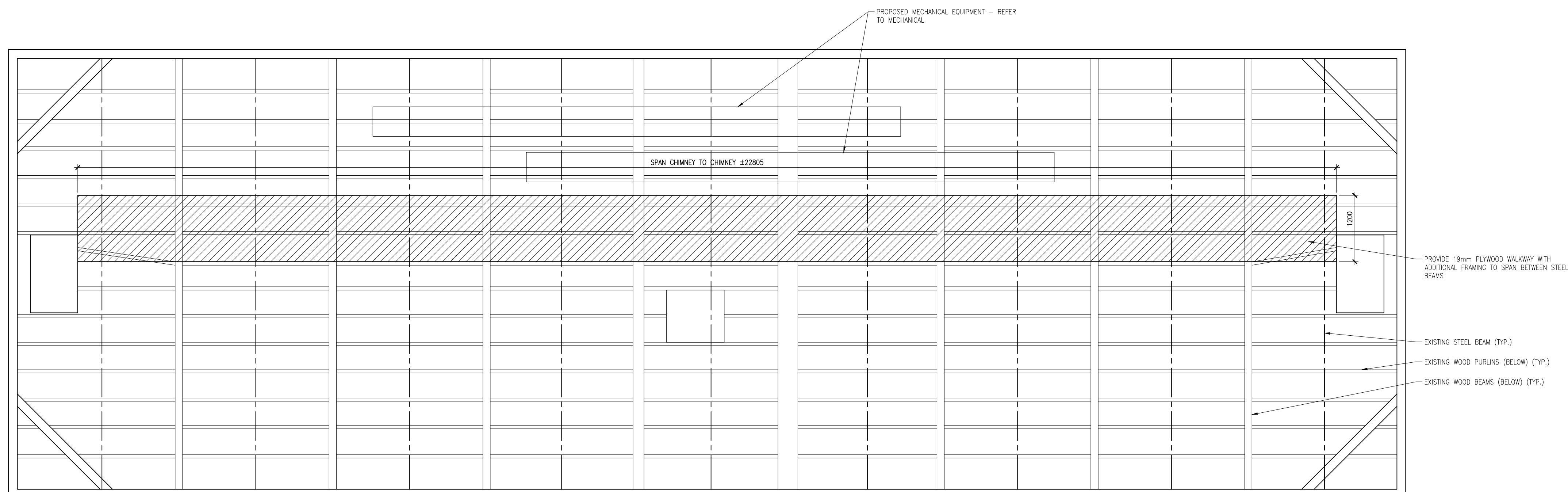
Scale / Echelle  
AS NOTED

Drawn by / Dessiné par	Date
SL	2017-03-13
Designed by / Conçu par	Date
SL	2017-03-13
Checked by / Vérifié par	Date
JK	2017-03-13
Approved by / Approuvé par	Date
JK	2017-03-13

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		

Drawing Reference No./Numéro de Référence du Dessin **A302**

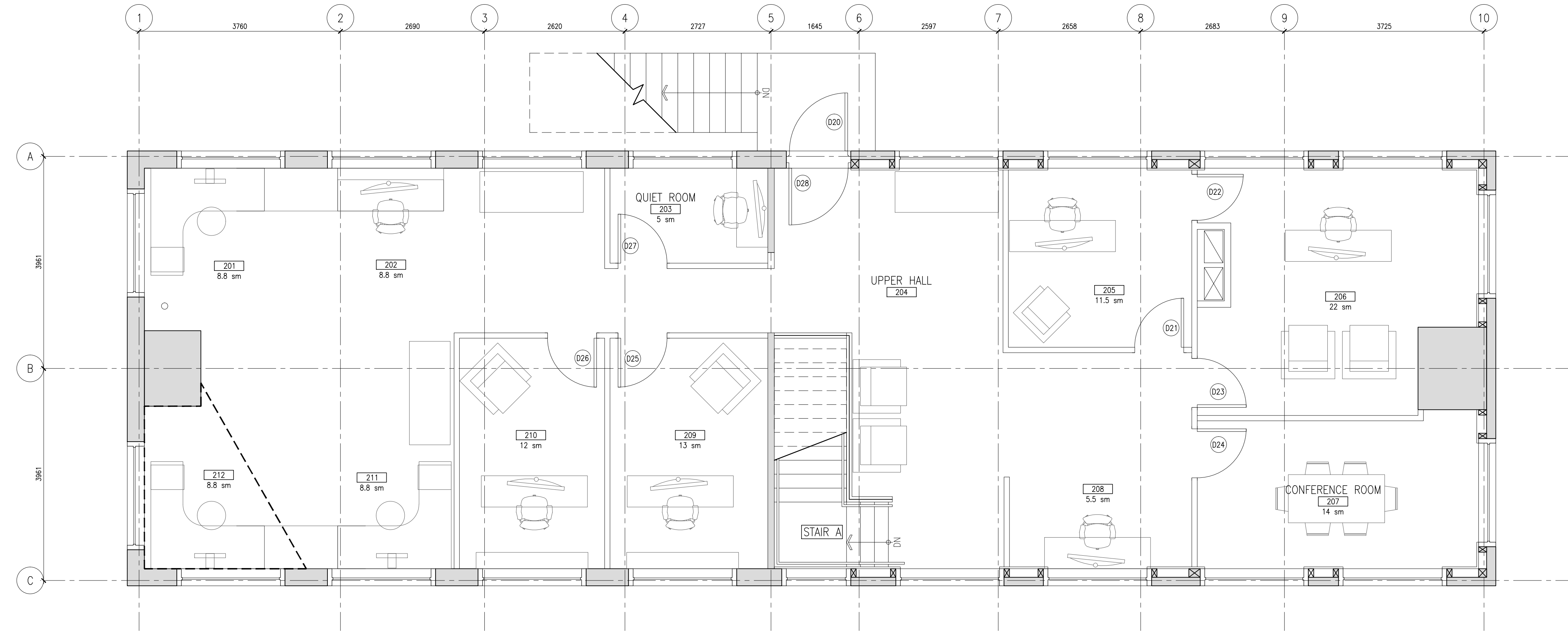
Attic Plan 1  
Scale 1:50 A302



TIME PLOTTED  
DATE PLOTTED  
PERSON PLOTTING  
SCALE OF PLOT  
VIEW PLOTTED  
DRAWING NAME

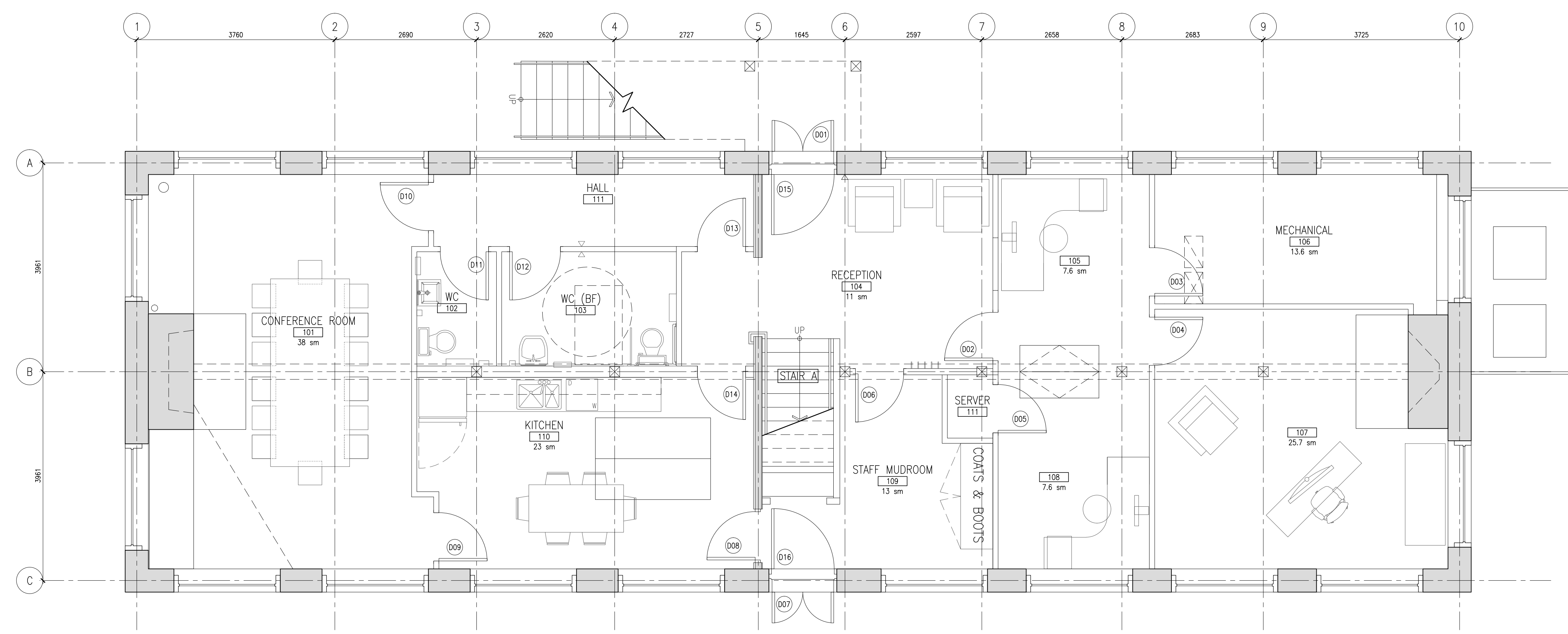


NOTE: FURNITURE NOT IN CONTRACT,  
SHOWN HERE FOR REFERENCE ONLY



Second Floor Plan 2  
Scale 1 : 50 A303

NOTE: FURNITURE NOT IN CONTRACT,  
SHOWN HERE FOR REFERENCE ONLY



Ground Floor Plan 1  
Scale 1 : 50 A303



- GENERAL NOTES:
- PROTECT EXISTING GROUND FLOOR FINISH THROUGHOUT CONSTRUCTION WITH 2 LAYERS OF PLYWOOD (12mm EACH), WITH JOINTS STAGGERED, SCREWED TOGETHER
  - PROTECT ALL INTERIOR BRICK (INCLUDING BUT NOT LIMITED TO CHIMNEYS AND NOGGING) WITH PLYWOOD SHEATHING TO THEIR FULL EXTENT. DO NOT FASTEN DIRECTLY INTO BRICK OR MORTAR.

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
3	17-03-13	TENDER	SL	JK
2	16-09-30	99% REVIEW	SL	JK
1	16-09-09	66% REVIEW	SL	JK

Revision / Révision	
A	A Detail number / No. du détail
B	B Location dwg. no. / No. sur dessin
C	C Drawing sheet no. / No. du dessin



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Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO  
Drawing title / Titre du dessin  
**FURNITURE LAYOUT**

Scale / Echelle	Date
AS NOTED	
Drawn by / Dessiné par	2017-03-13
Designed by / Conçu par	2017-03-13
Checked by / Vérifié par	2017-03-13
Approved by / Approuvé par	2017-03-13

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		A303

TIME PLOTTED

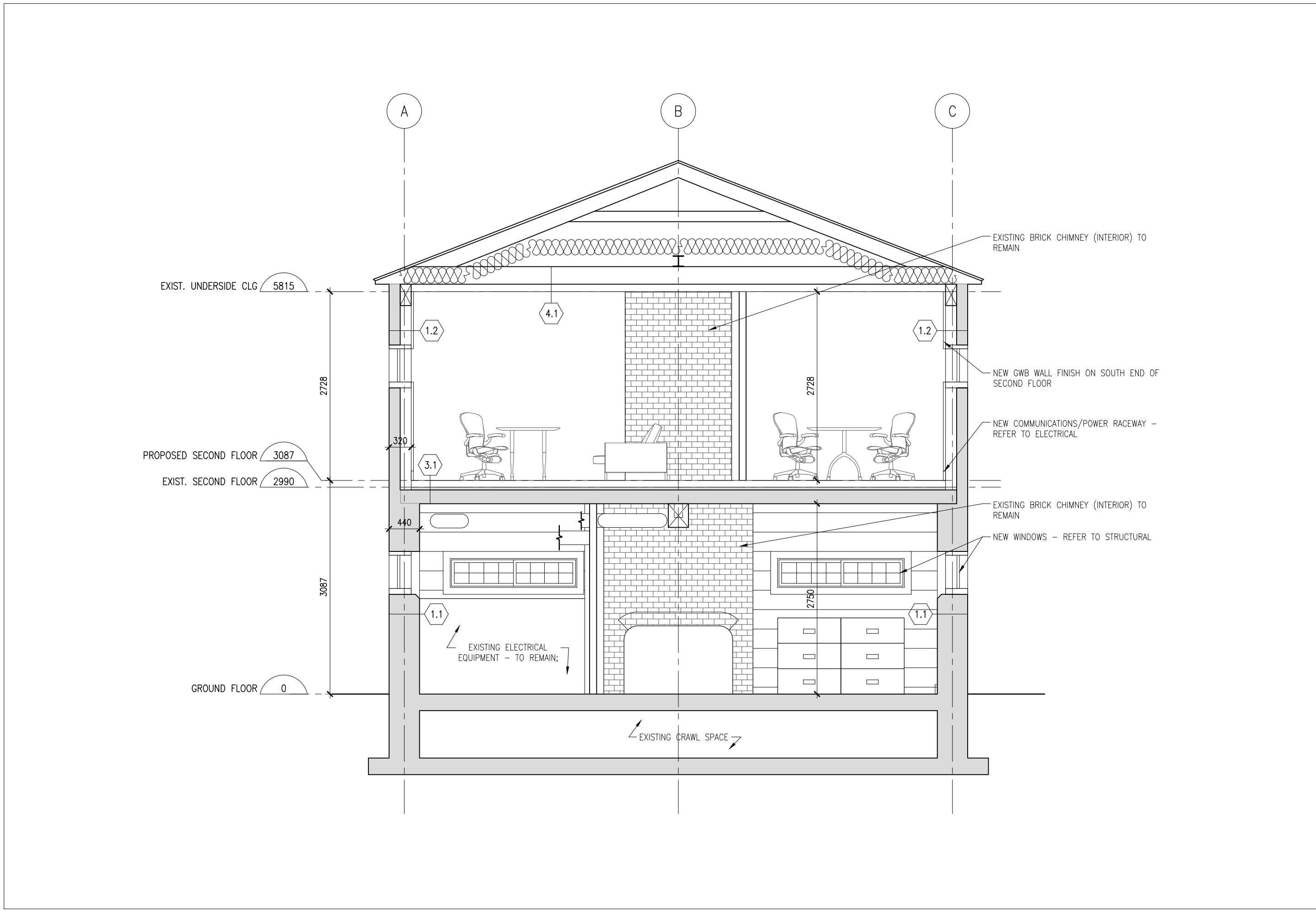
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PERSON PLOTTING

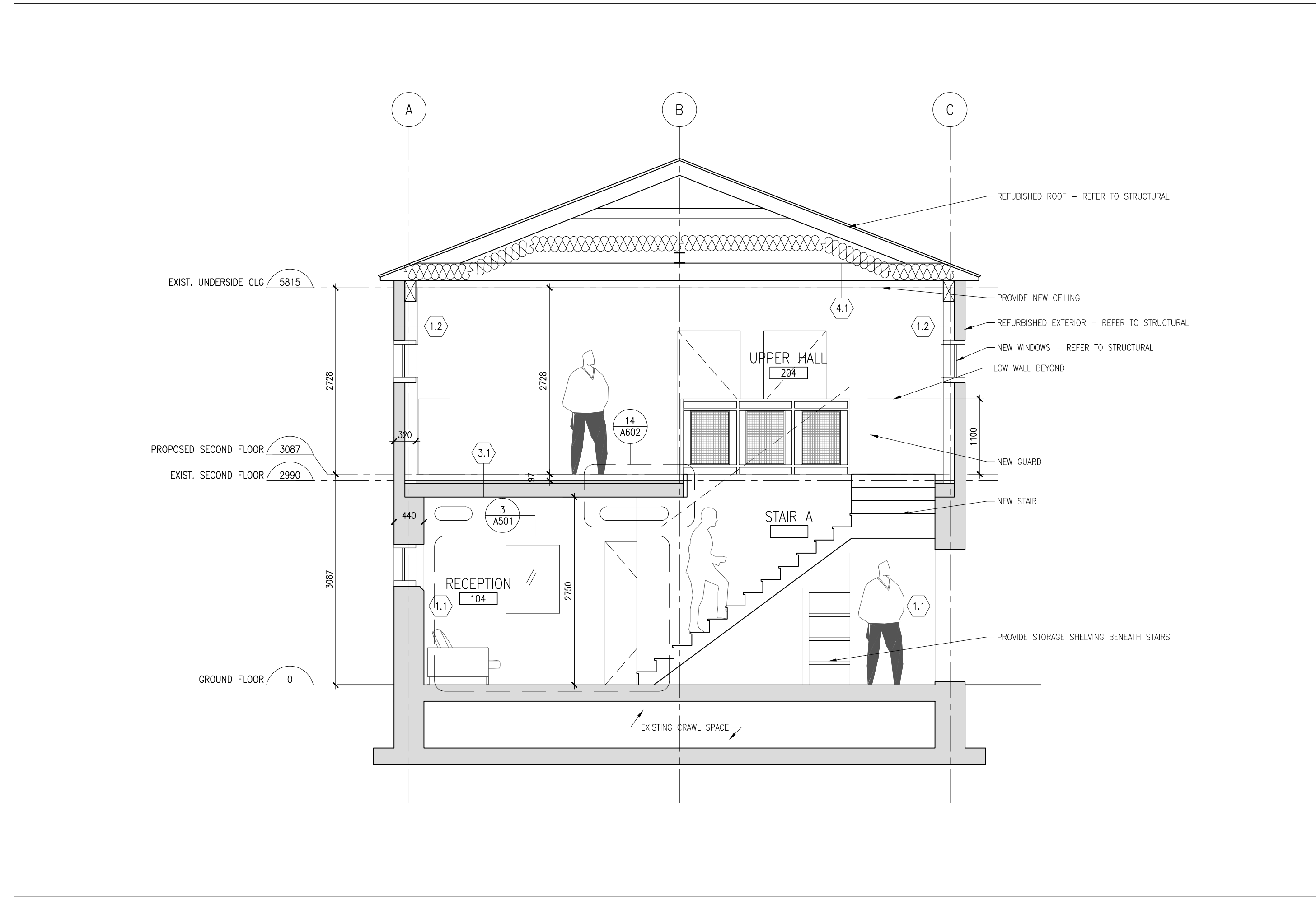
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VIEW PLOTTED

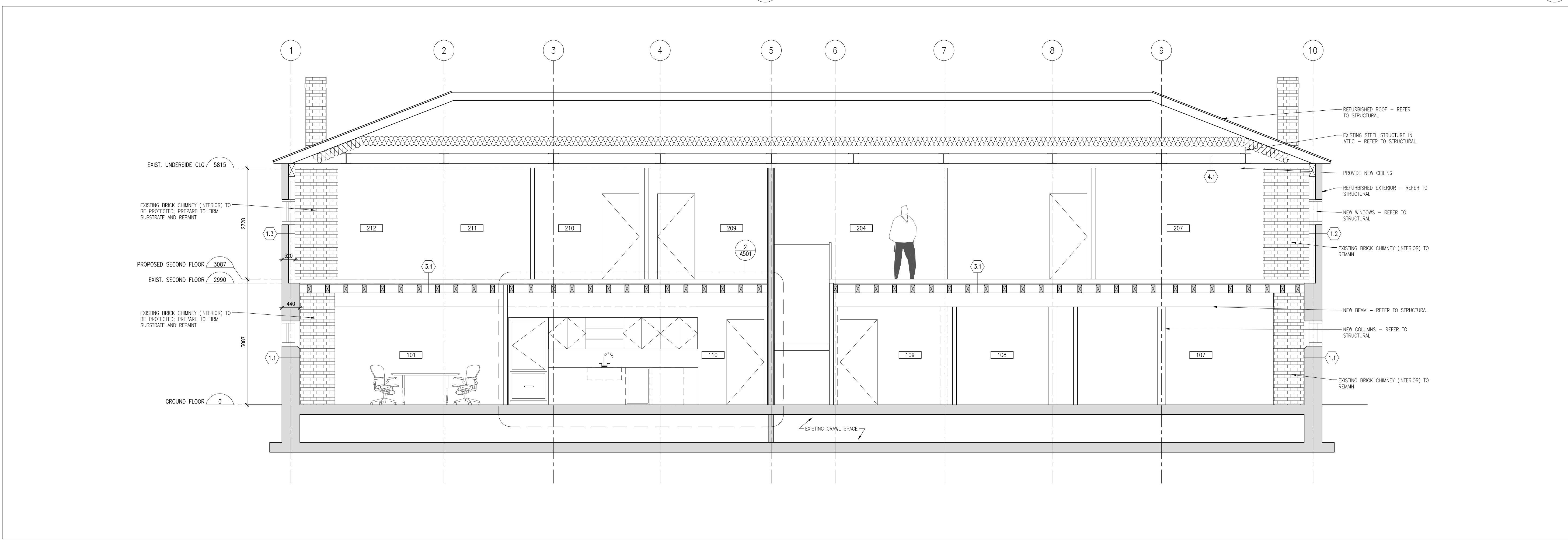
DRAWING NAME



Cross Section - North End **3**  
 Scale 1 : 50 **A401**



Cross Section - Through Stair **2**  
 Scale 1 : 50 **A401**



Longitudinal Section **1**  
 Scale 1 : 50 **A401**

No.	Date	Description	Drawn by	Approved
3	17-03-13	TENDER	SL	JK
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1	16-09-09	66% REVIEW	SL	JK

Revision / Révision	
A	A Detail number / No. du détail
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Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

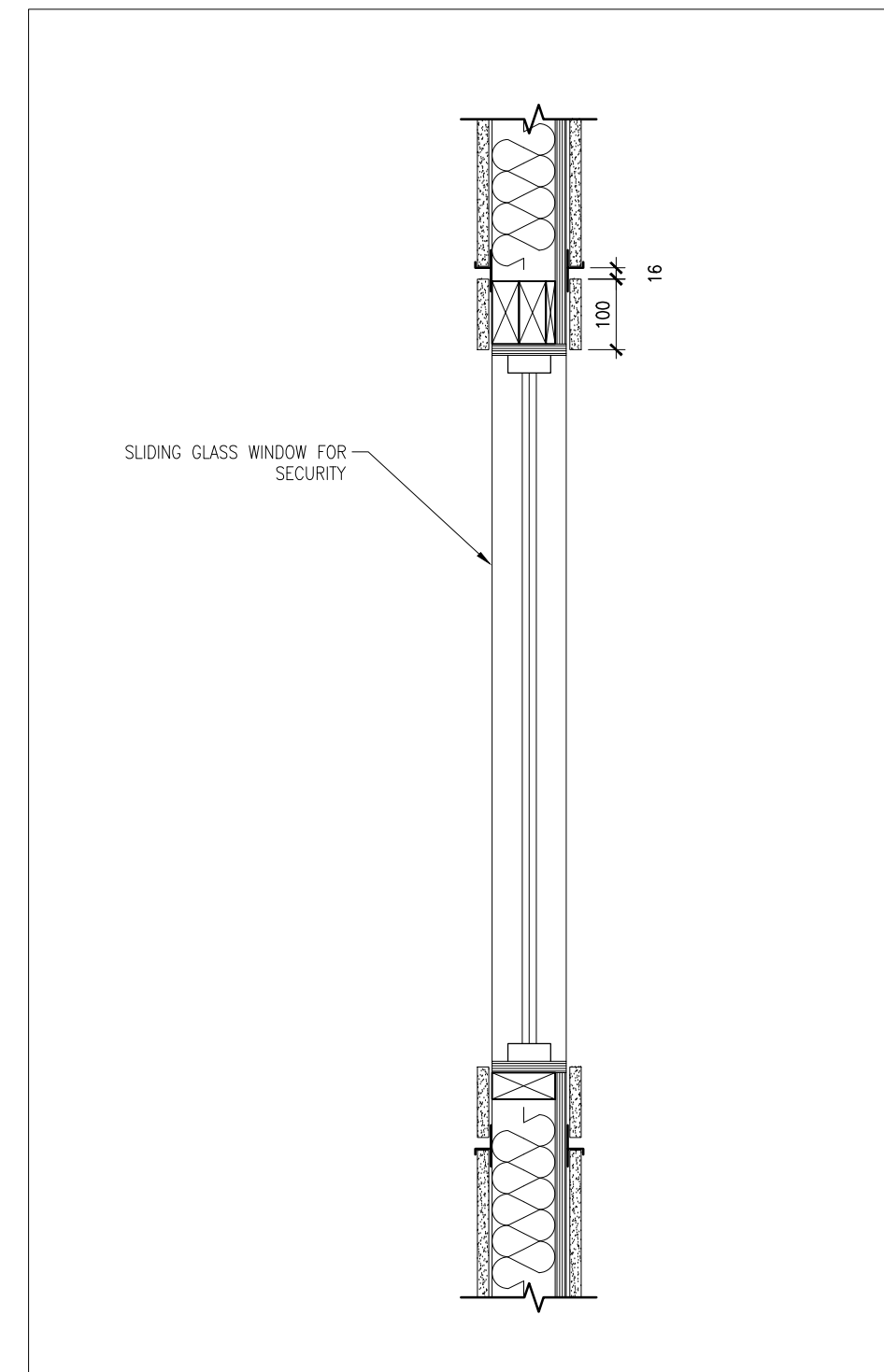
**NIAGARA-ON-THE-LAKE ONTARIO**  
 Drawing title / Titre du dessin  
**BUILDING SECTIONS**

Scale / Echelle	
AS NOTED	
Drawn by / Dessiné par	Date
SL	2017-03-13
Designed by / Conçu par	Date
SL	2017-03-13
Checked by / Vérifié par	Date
JK	2017-03-13
Approved by / Approuvé par	Date
JK	2017-03-13

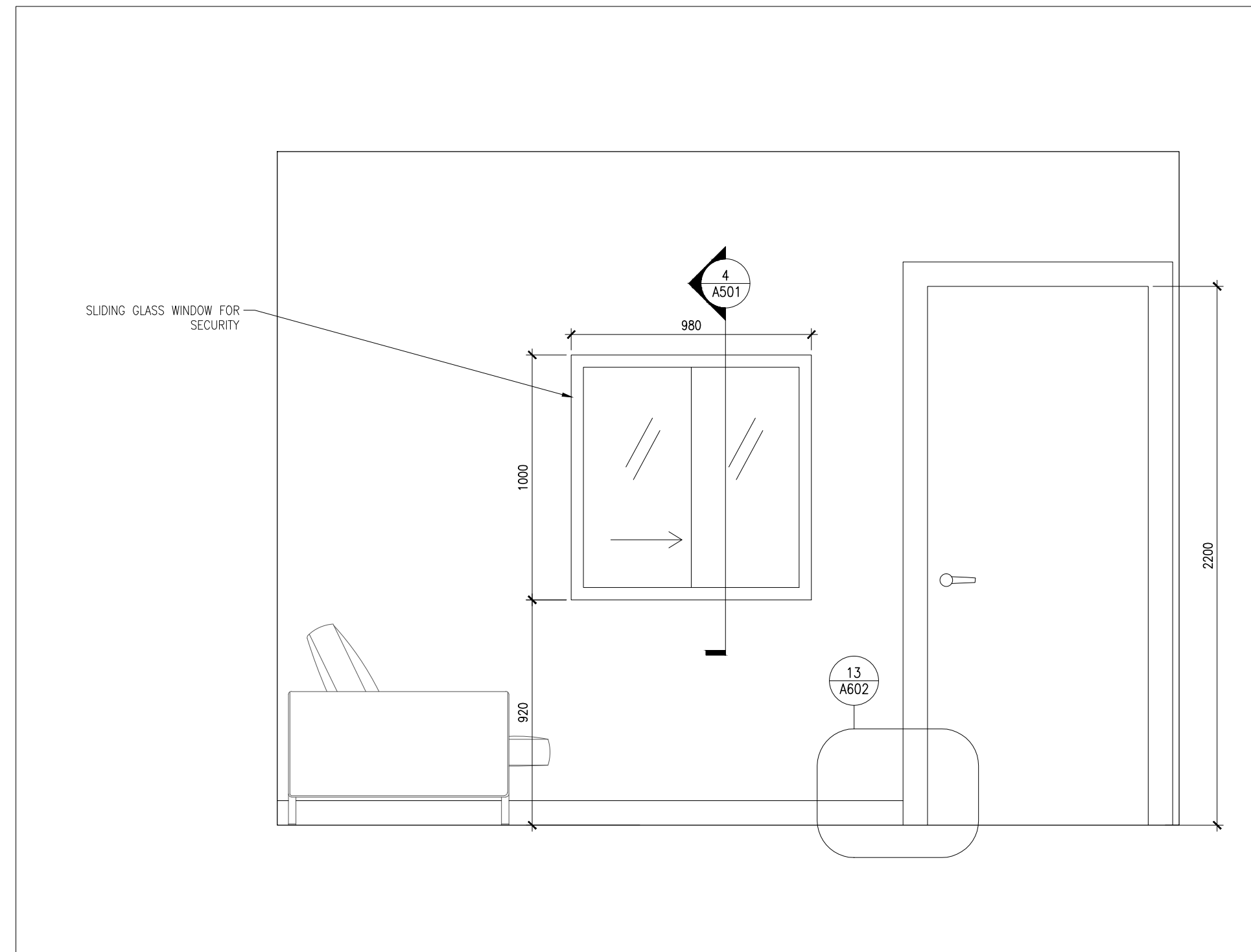
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Drawing Reference No./Numéro de Référence du Dessin		A401

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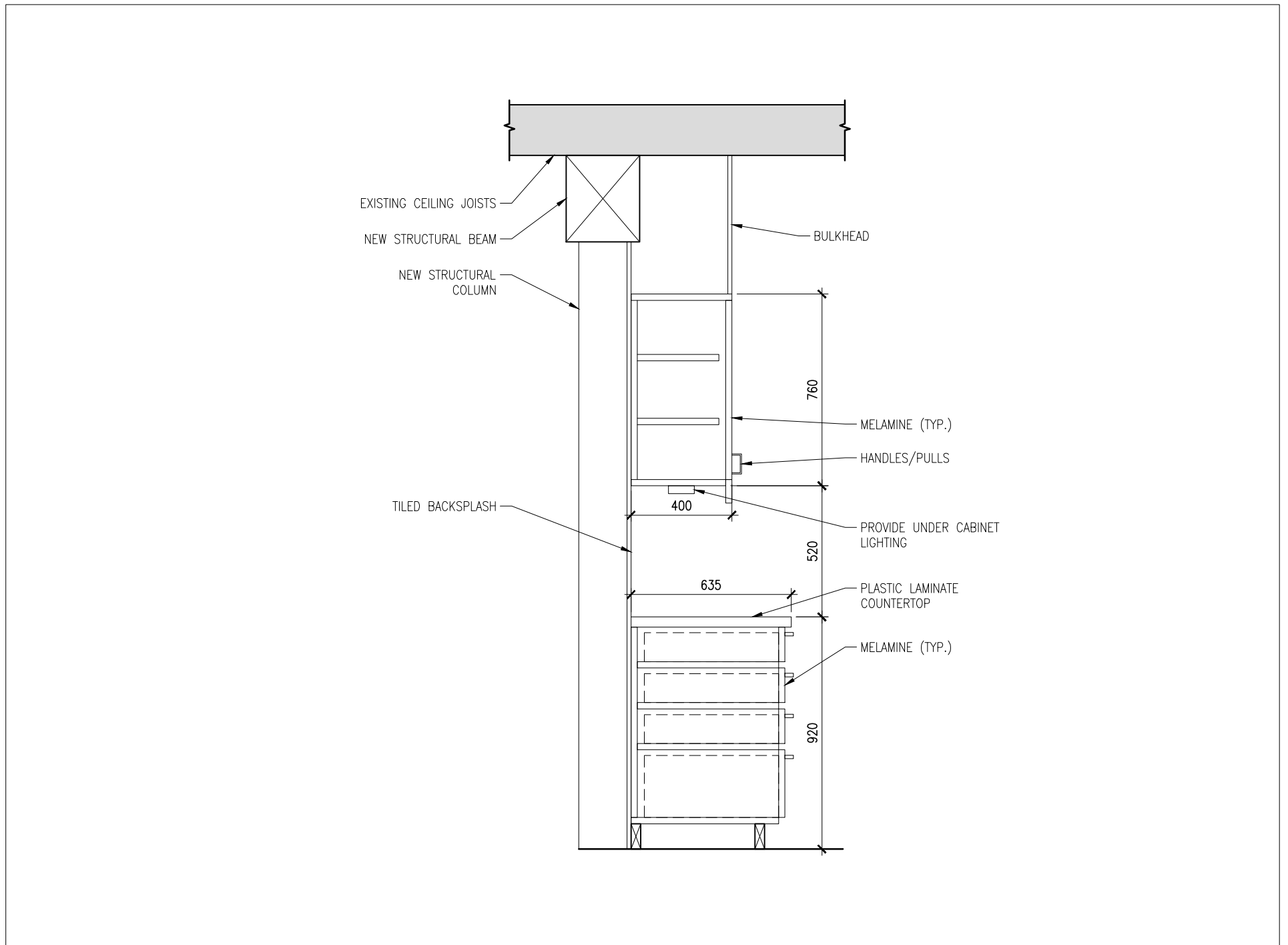




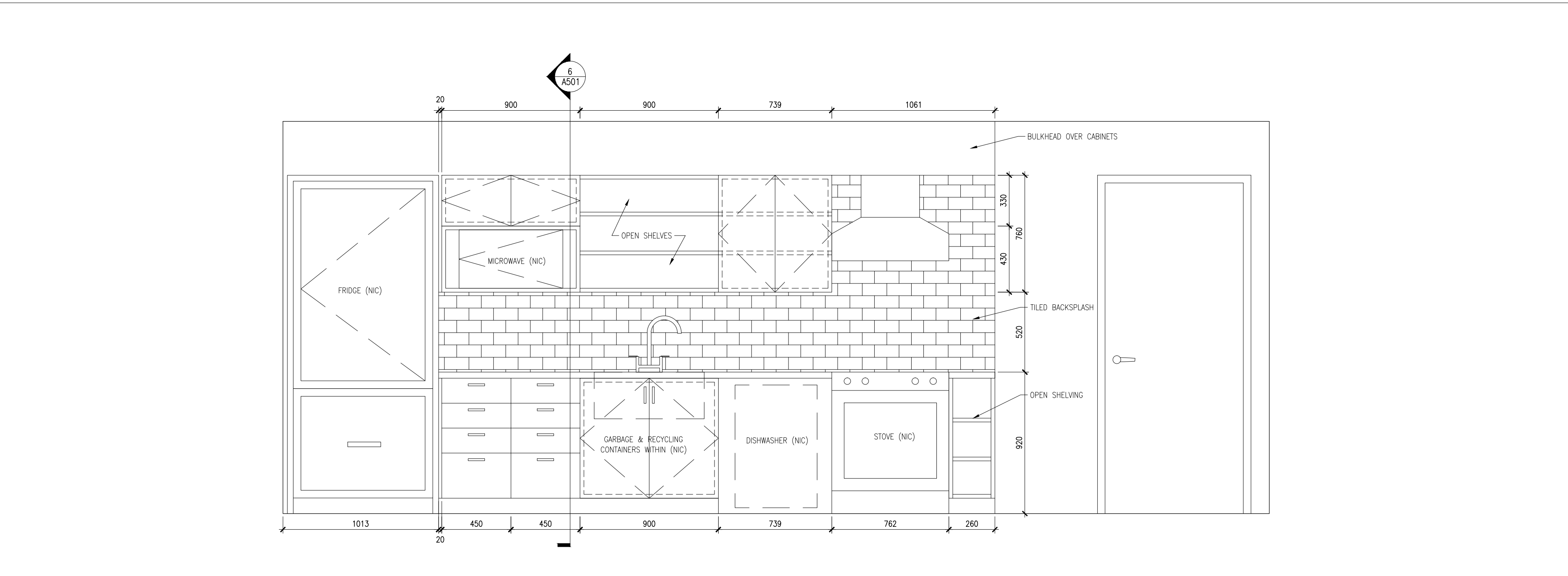
Security Window (Section) 4  
Scale 1 : 10 A501



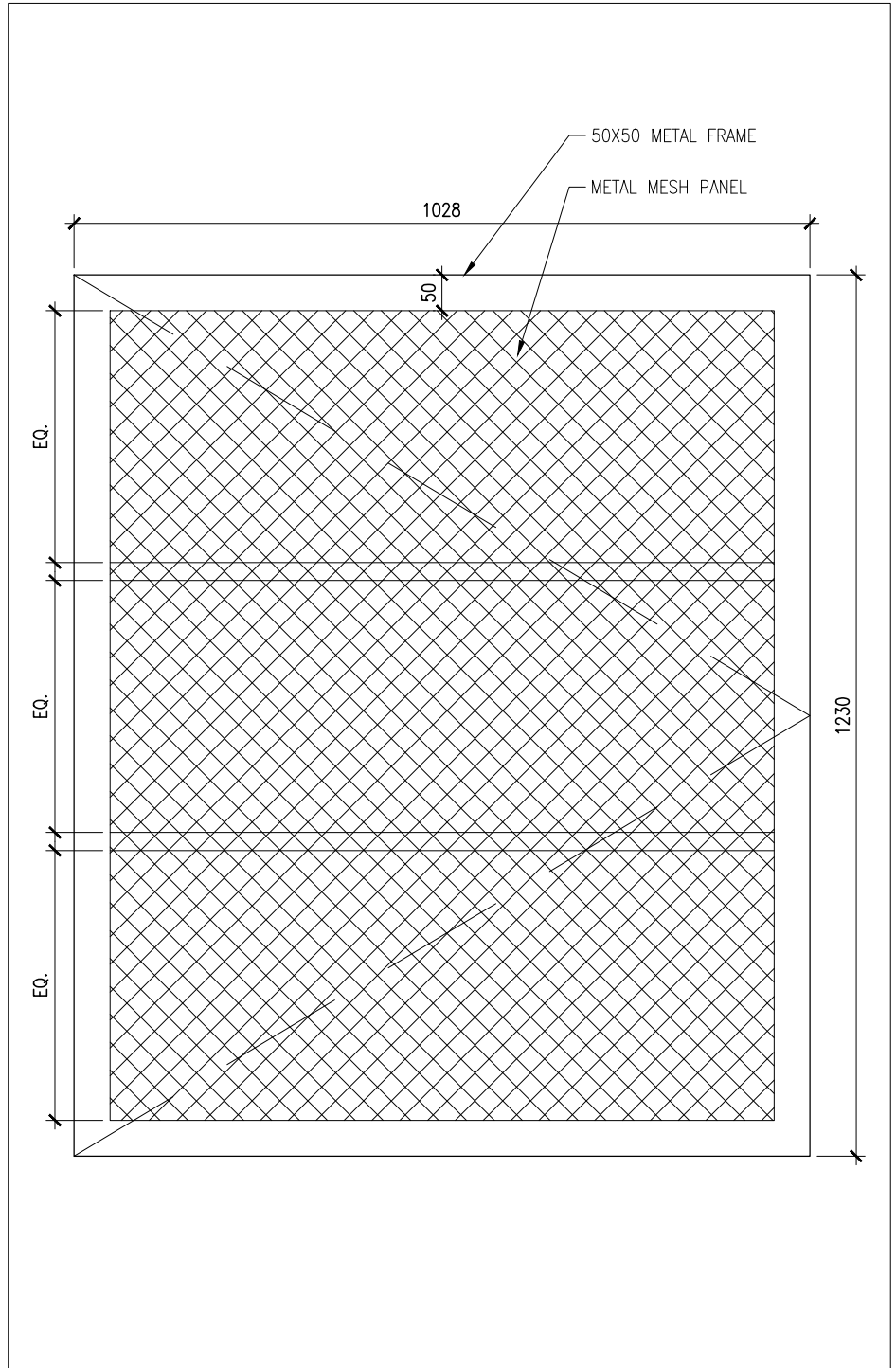
Reception Rm 104 3  
Scale 1 : 20 A501



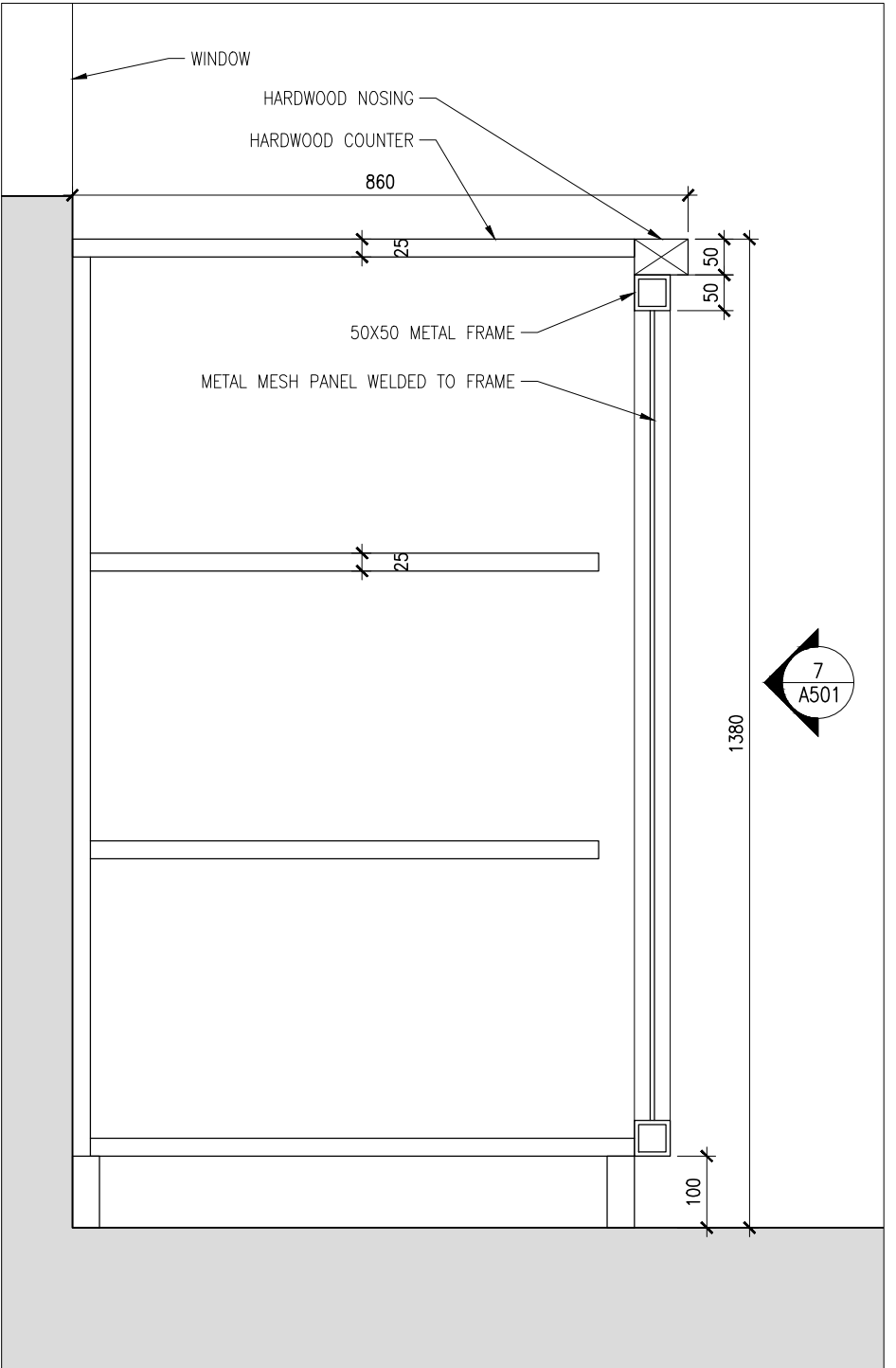
Section through kitchen built-ins 6  
Scale 1 : 20 A501



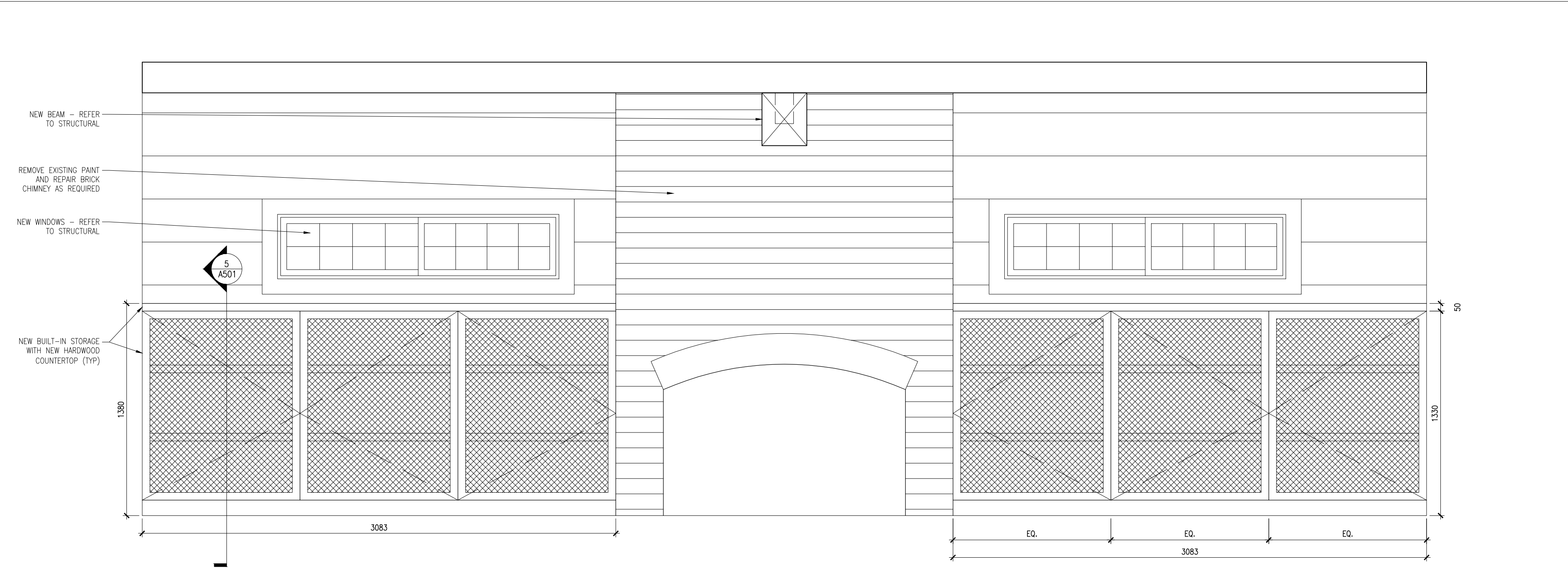
Kitchen Rm 110 2  
Scale 1 : 20 A501



New built-in door (elevation) 7  
Scale 1 : 10 A501



Section through new built-in unit 5  
Scale 1 : 10 A501



South End - Ground Floor 1  
Scale 1 : 20 A501

No.	Date	Description	Drawn by	Approved
3	17-03-13	TENDER	SL	JK
2	16-09-30	99% REVIEW	SL	JK
1	16-09-09	66% REVIEW	SL	JK

Revision / Révision				
A	Detail number	No. du détail	A	
B	Location dwg. no.	No. sur dessin	B	C
C	Drawing sheet no.	No. du dessin		

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Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

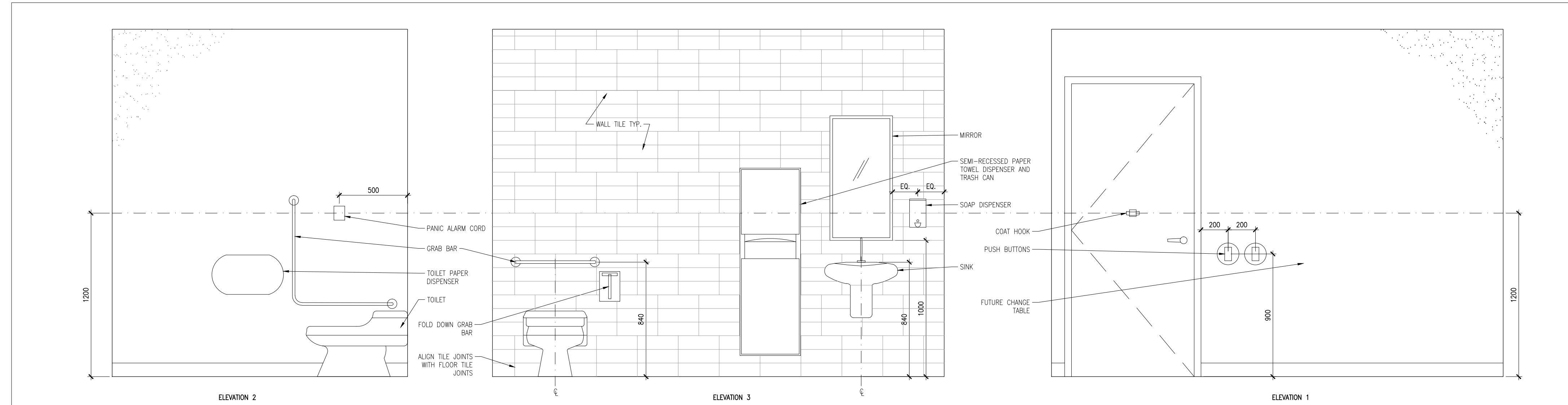
NIAGARA-ON-THE-LAKE ONTARIO

**INTERIOR ELEVATIONS**

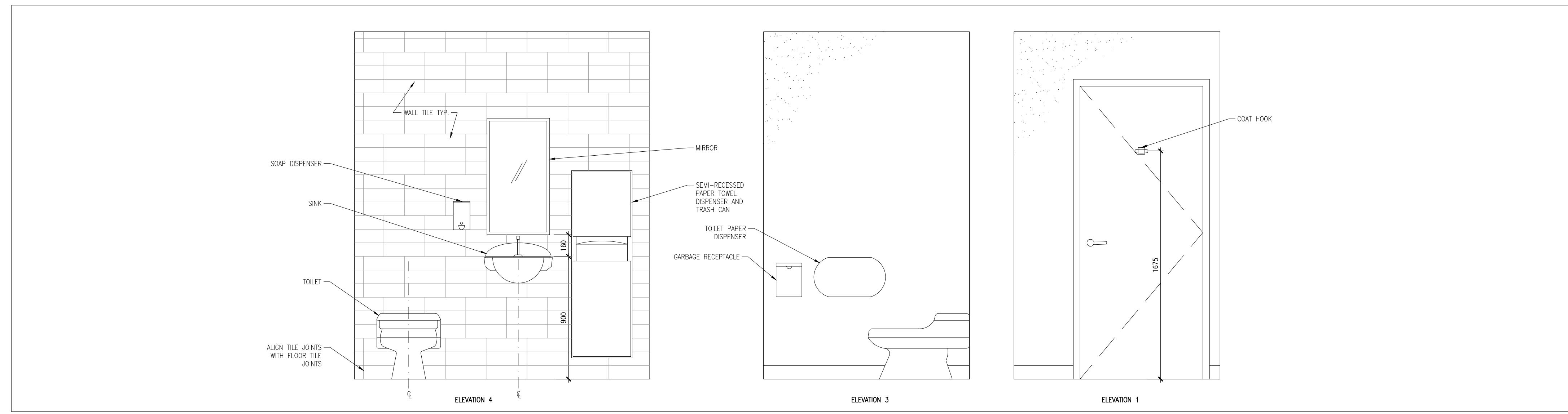
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AS NOTED	
Drawn by / Dessiné par	Date
SL	2017-03-13
Designed by / Conçu par	Date
SL	2017-03-13
Checked by / Vérifié par	Date
JK	2017-03-13
Approved by / Approuvé par	Date
JK	2017-03-13

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
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Drawing Reference No./Numéro de Référence du Dessin		

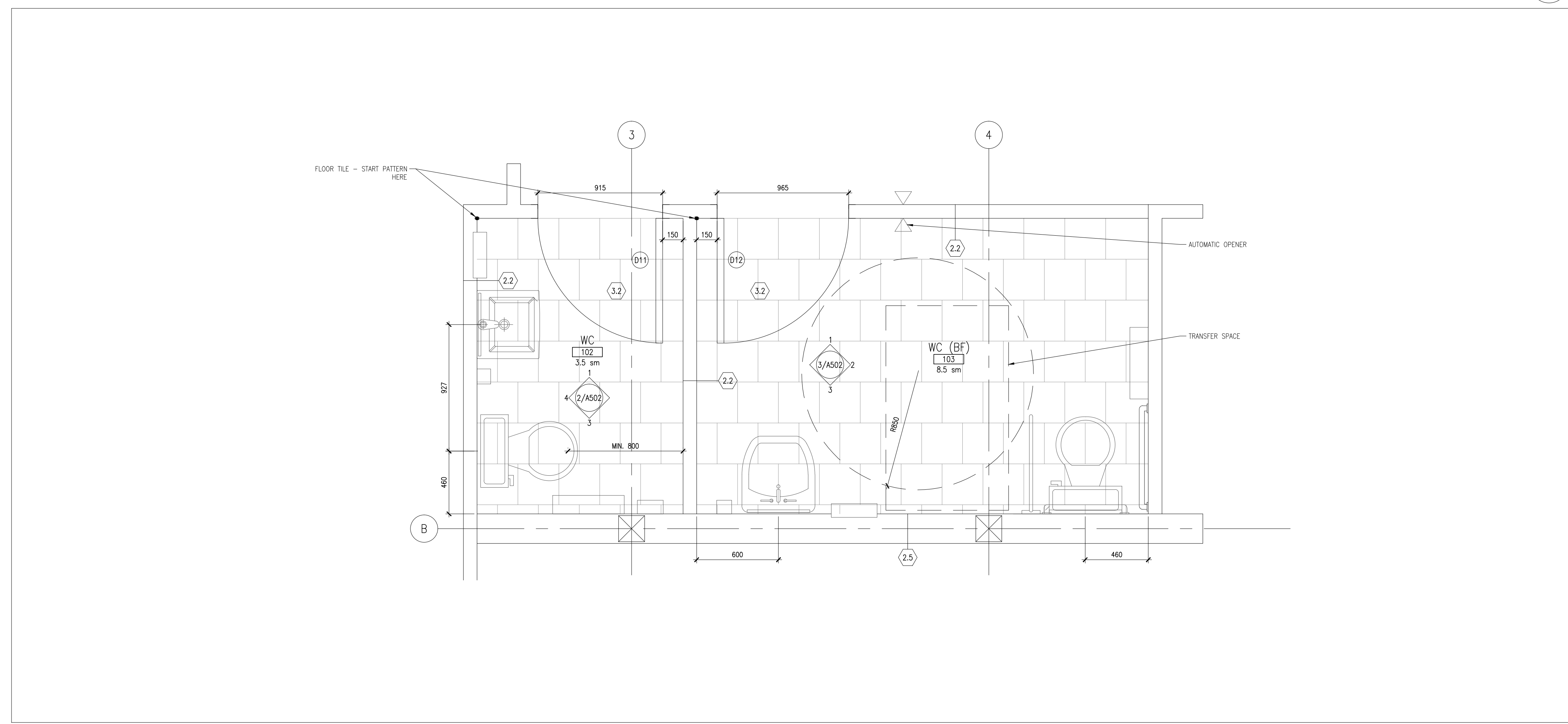
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VIEW PLOTTED  
SCALE OF PLOT  
PERSON PLOTTING  
DATE PLOTTED  
TIME PLOTTED



BF Washroom 103 3  
Scale 1 : 20 A502



Washroom 102 2  
Scale 1 : 20 A502



Washroom Layout (Plan) 1  
Scale 1 : 20 A502

3	17-03-13	TENDER	SL	JK
2	16-09-30	99% REVIEW	SL	JK
1	16-09-09	66% REVIEW	SL	JK

No.	Date	Description	Drawn by Dessine par	Approved Approuvé
Revision / Révision				
A		A Detail number No. du détail		A
B		B Location dwg. no. No. sur dessin		B
C		C Drawing sheet no. No. du dessin		C



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Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**  
NIAGARA-ON-THE-LAKE ONTARIO

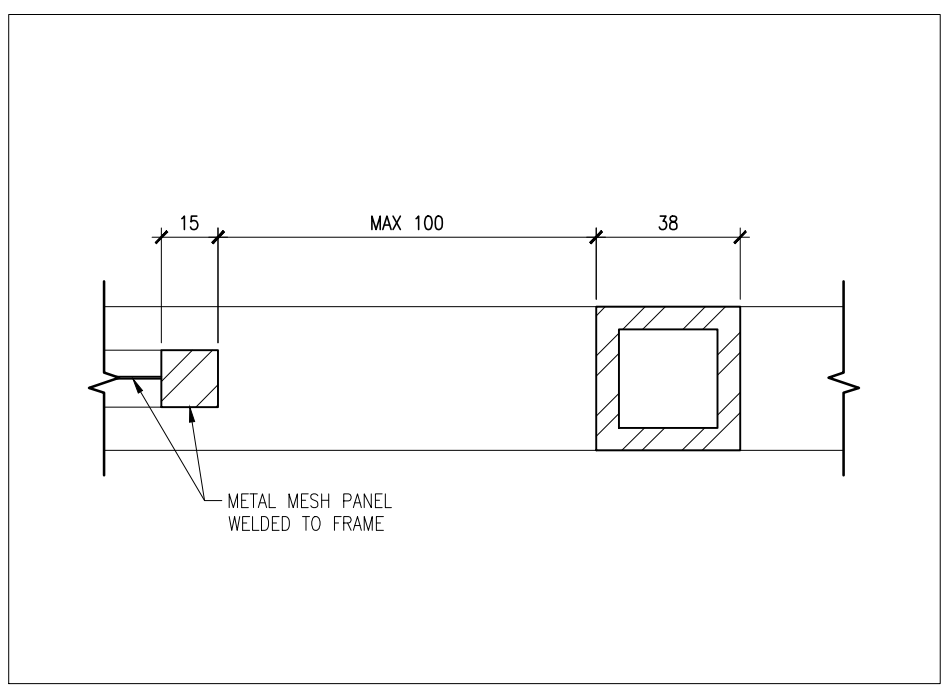
**INTERIOR ELEVATIONS WASHROOMS**

Scale / Echelle	AS NOTED
Drawn by / Dessiné par	Date
SL	2017-03-13
Designed by / Conçu par	Date
SL	2017-03-13
Checked by / Vérifié par	Date
JK	2017-03-13
Approved by / Approuvé par	Date
JK	2017-03-13

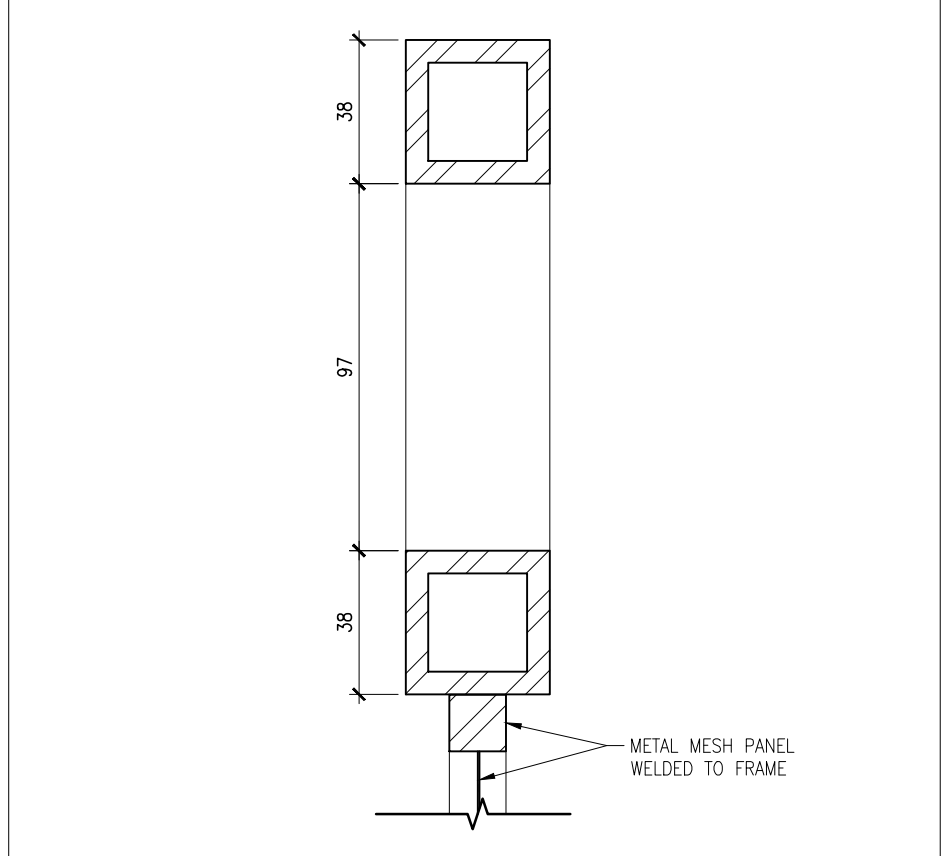
Project No./No. du projet	Client No./No du Client	Sheet No./Feuille No.
30224201		A502
Drawing Reference No./Numéro de Référence du Dessin		

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VIEW PLOTTED  
SCALE OF PLOT  
PERSON PLOTTING  
DATE PLOTTED  
TIME PLOTTED

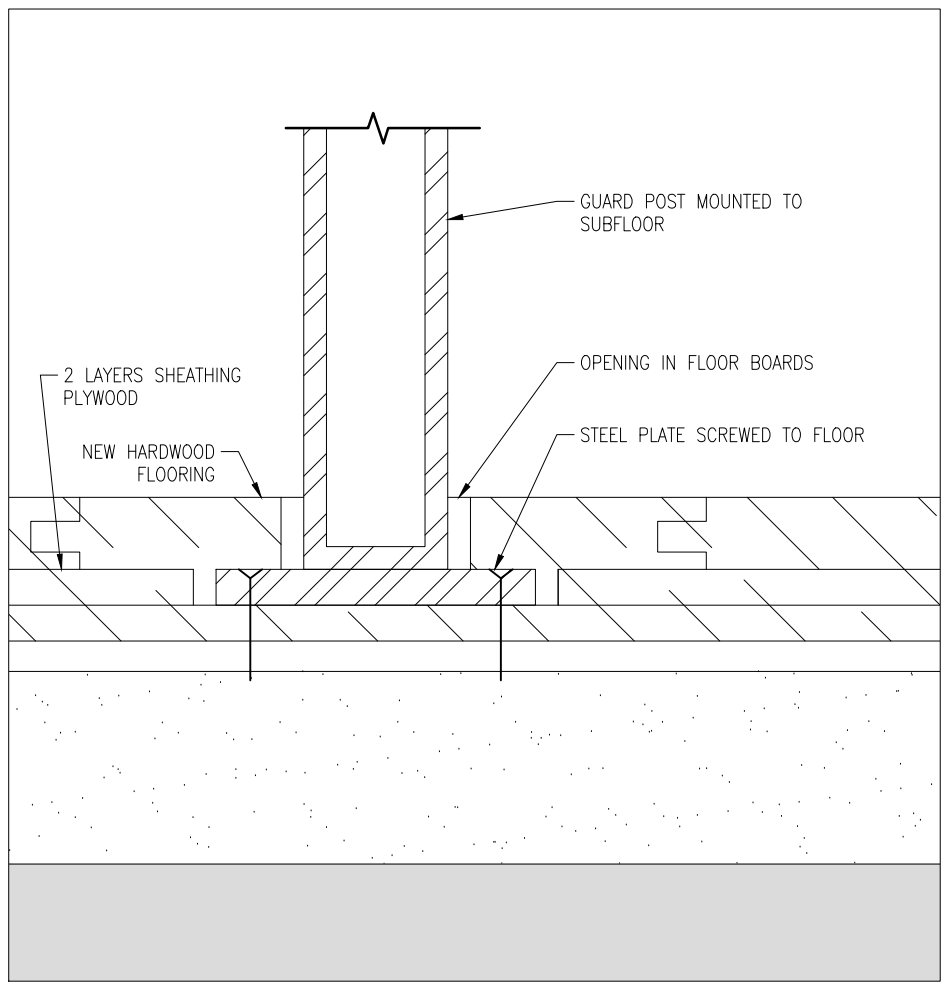




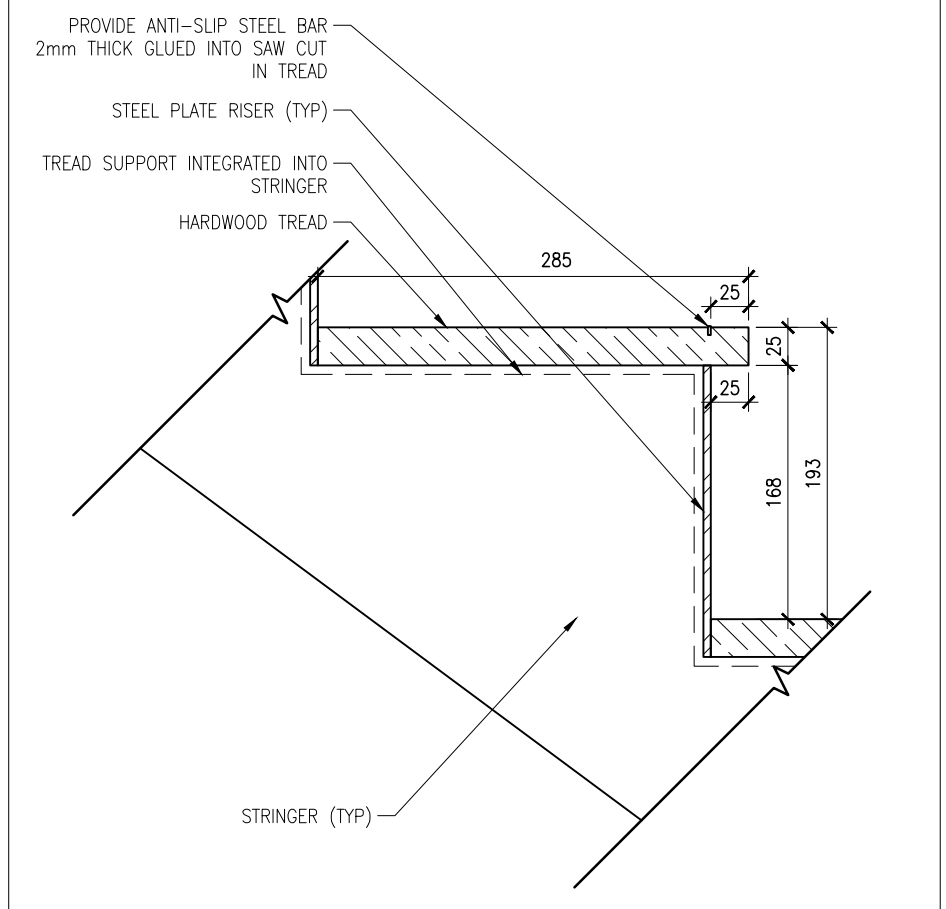
Guard (Plan) 11  
Scale 1:2 A601



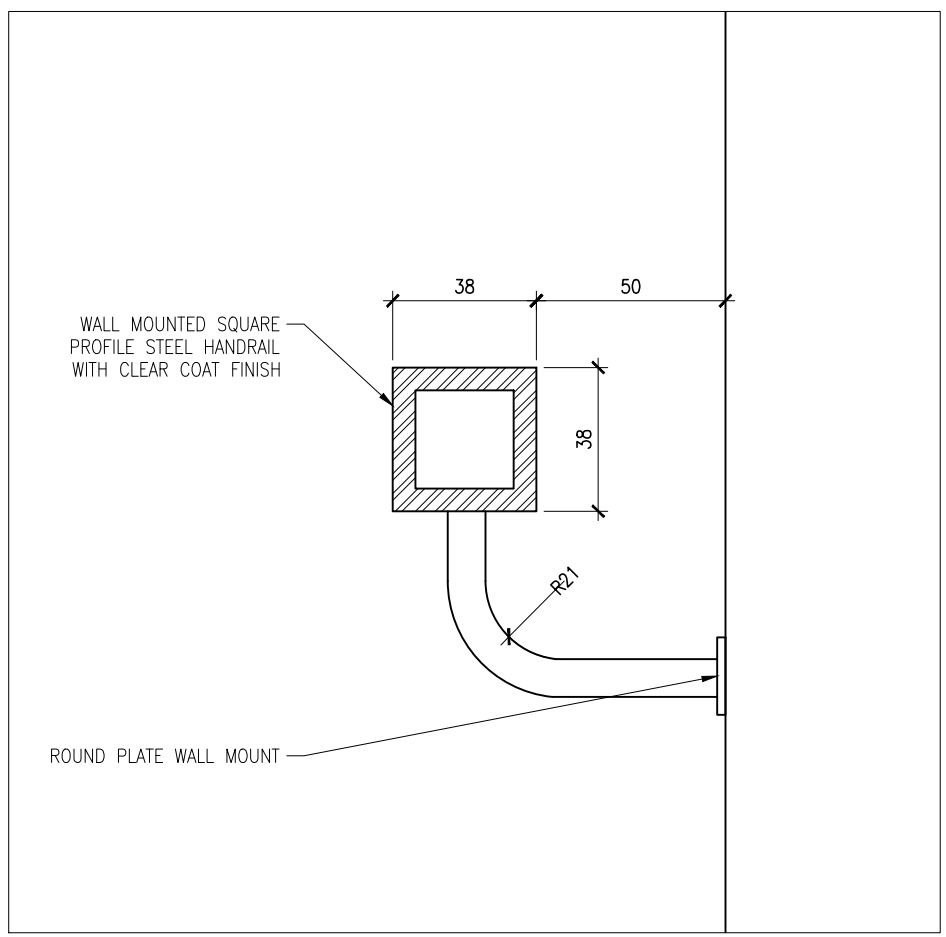
Guard (Section) 10  
Scale 1:2 A601



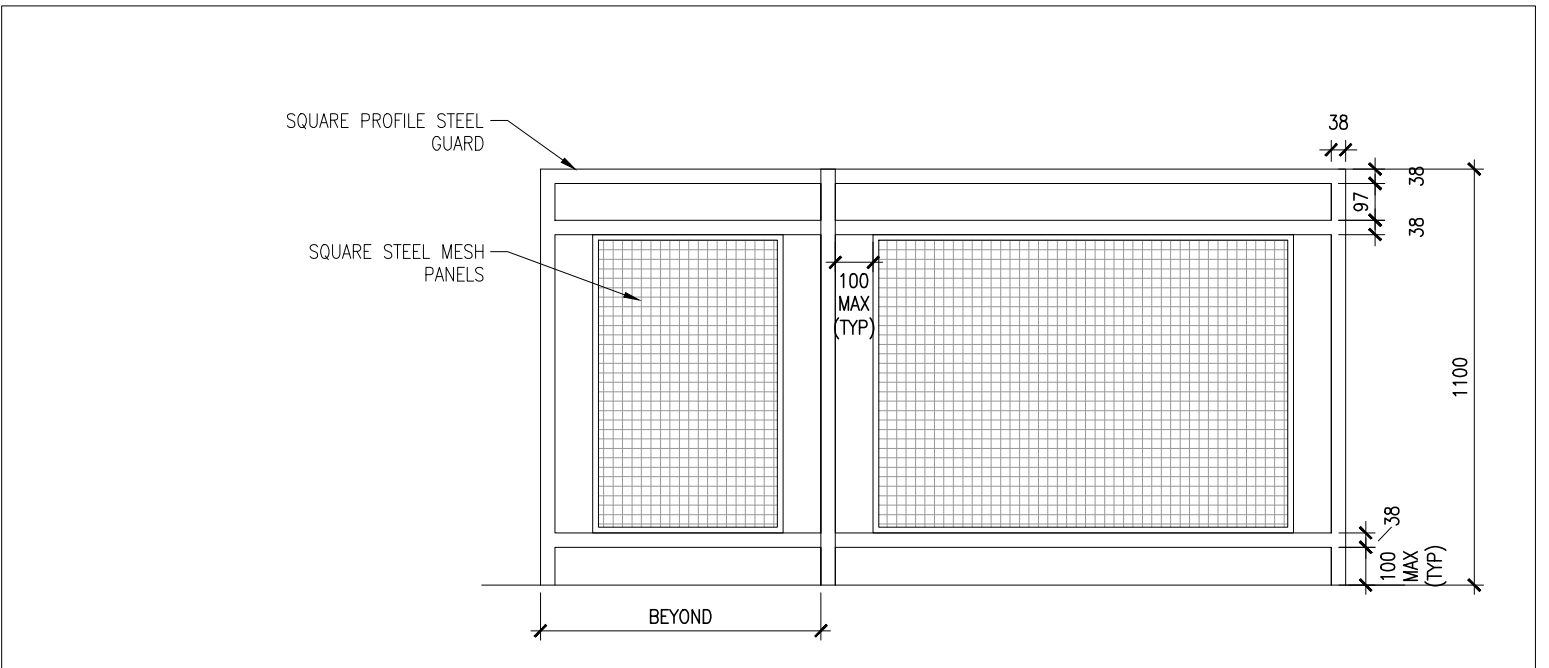
Post fastening (Section) 9  
Scale 1:2 A601



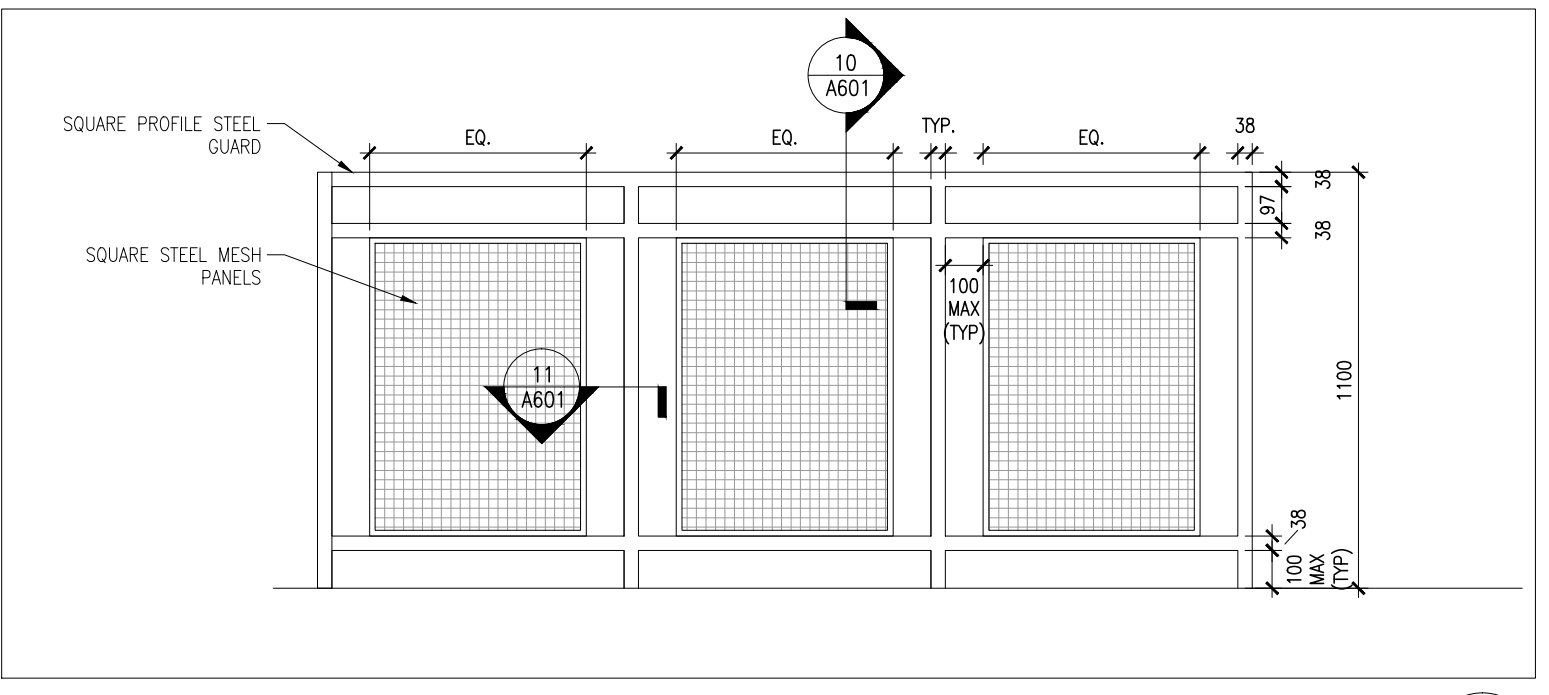
Tread (Section) 8  
Scale 1:5 A601



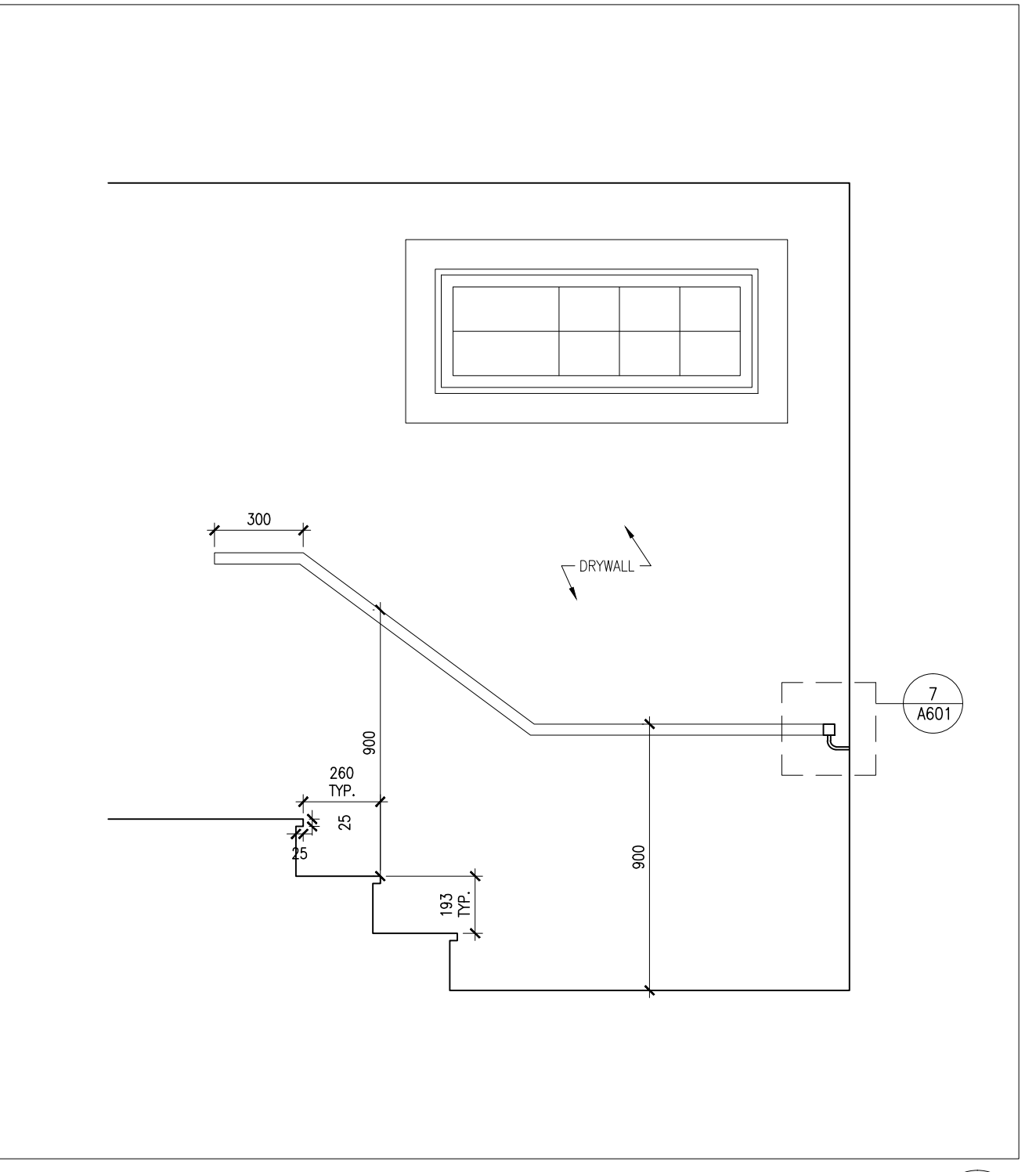
Handrail (Section) 7  
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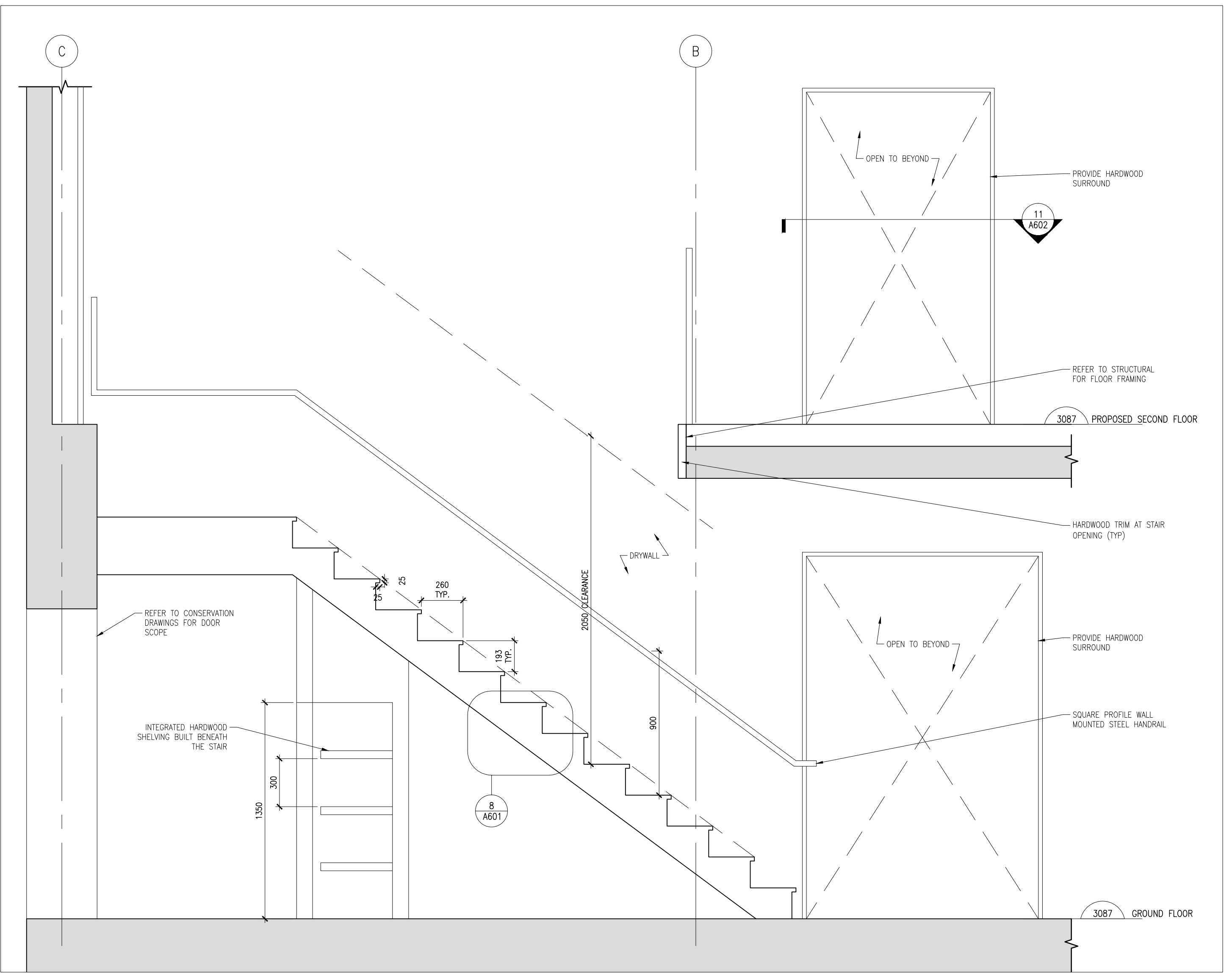
Stair A Guard (Elevation) 6  
Scale 1:20 A601



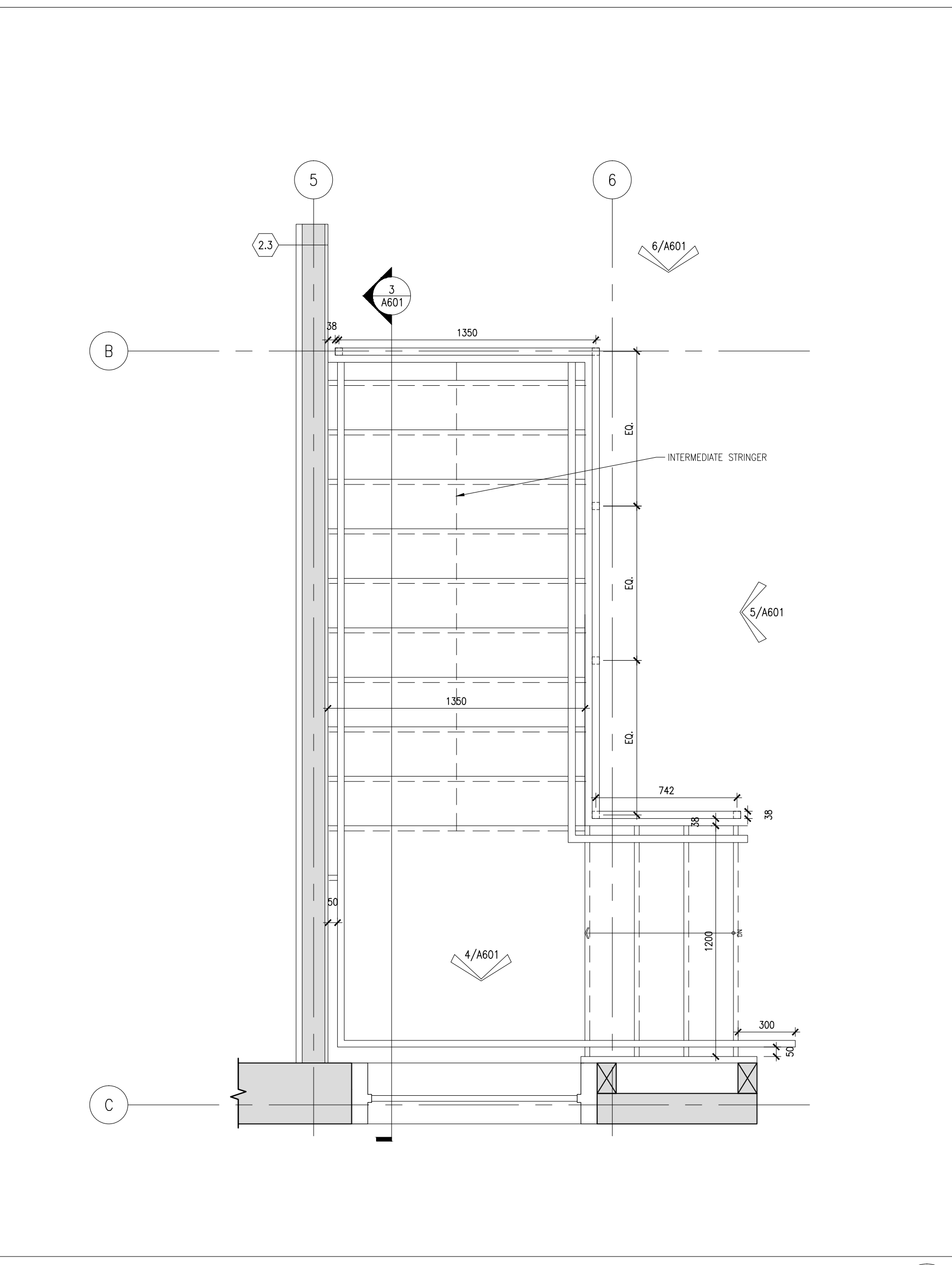
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Scale 1:20 A601



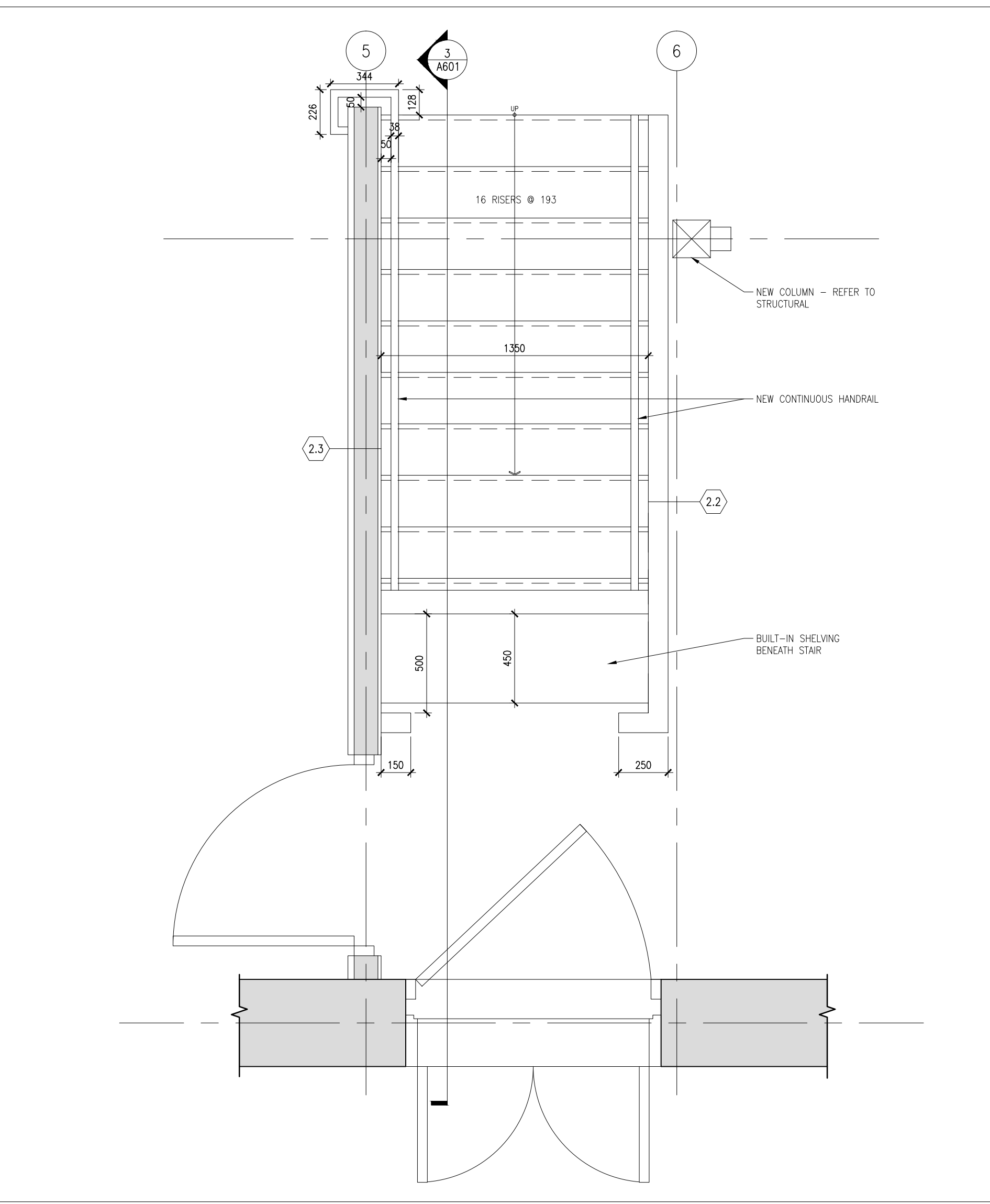
Stair A (Section) 4  
Scale 1:20 A601



Stair A (Section) 3  
Scale 1:20 A601



Stair A @ Second Floor (Plan) 2  
Scale 1:20 A601



Stair A @ Ground Floor (Plan) 1  
Scale 1:20 A601

No.	Date	Description	Drawn by	Approved
3	17-03-13	TENDER	SL	JK
2	16-09-30	99% REVIEW	SL	JK
1	16-09-09	66% REVIEW	SL	JK

Revision / Révision	
A	A Detail number No. du détail
B	B Location dwg. no. No. sur dessin
C	C Drawing sheet no. No. du dessin

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ONTARIO ASSOCIATION OF ARCHITECTS  
EDWIN J. PROWSE  
LICENSED ARCHITECT

Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin

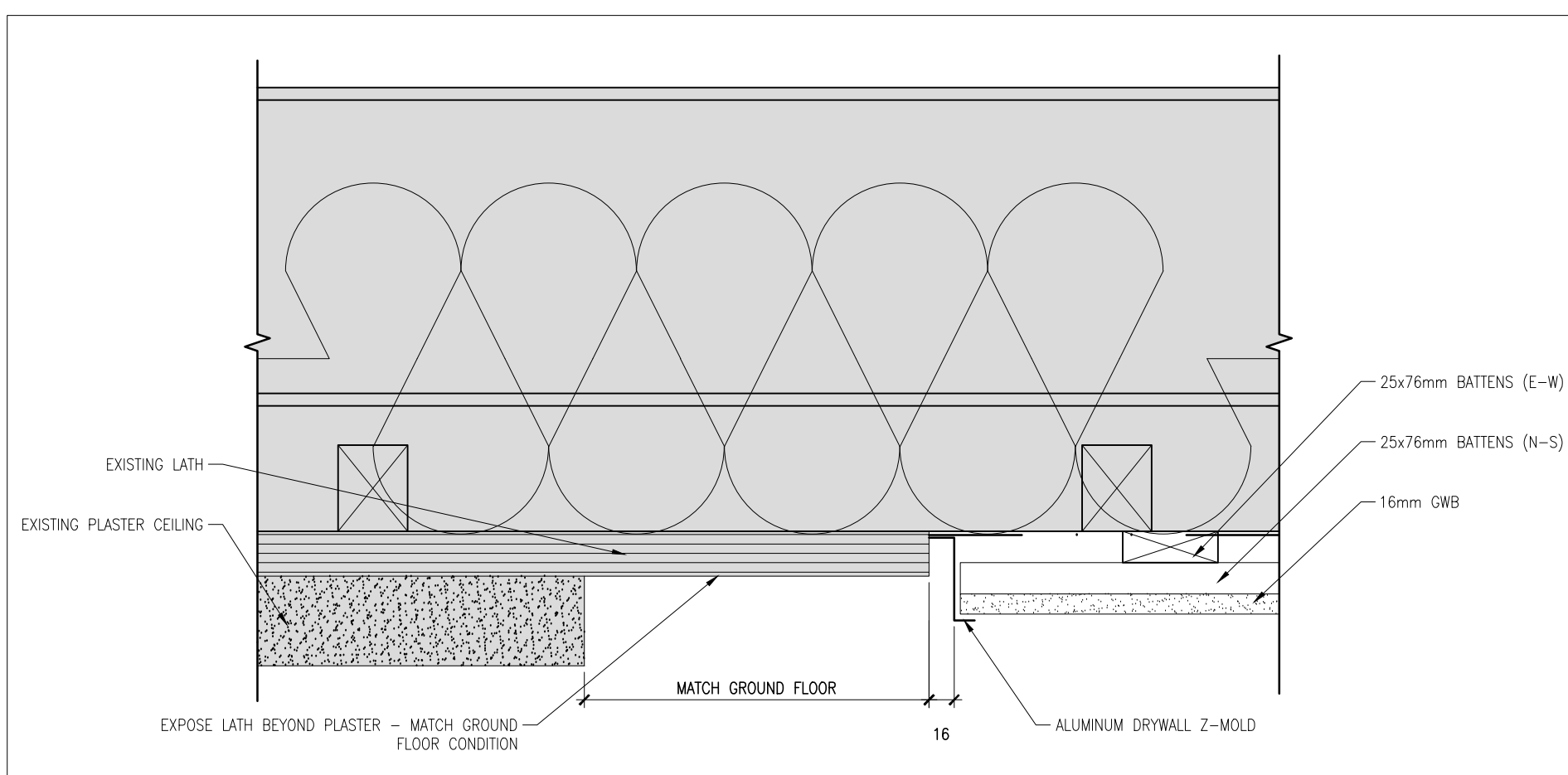
**STAIR DETAILS**

Scale / Echelle	
AS NOTED	
Drawn by / Dessiné par	Date
SL	2017-03-13
Designed by / Conçu par	Date
SL	2017-03-13
Checked by / Vérifié par	Date
JK	2017-03-13
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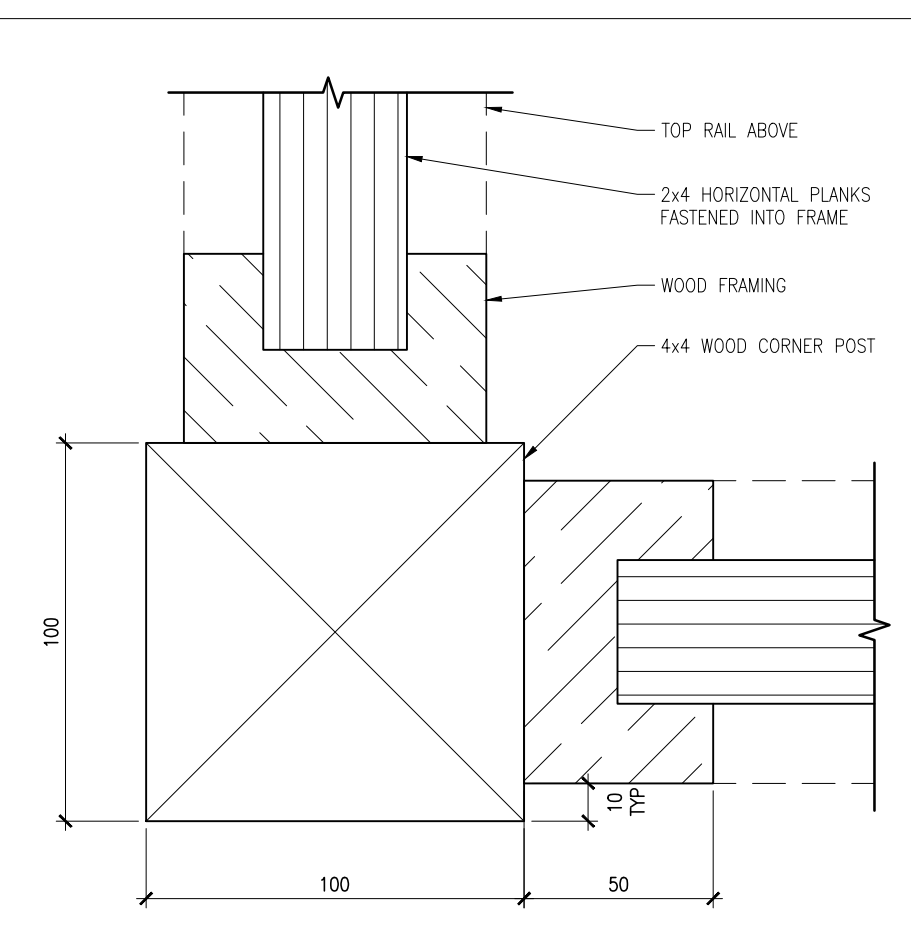
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30224201		A601

Drawing Reference No./Numéro de Référence du Dessin

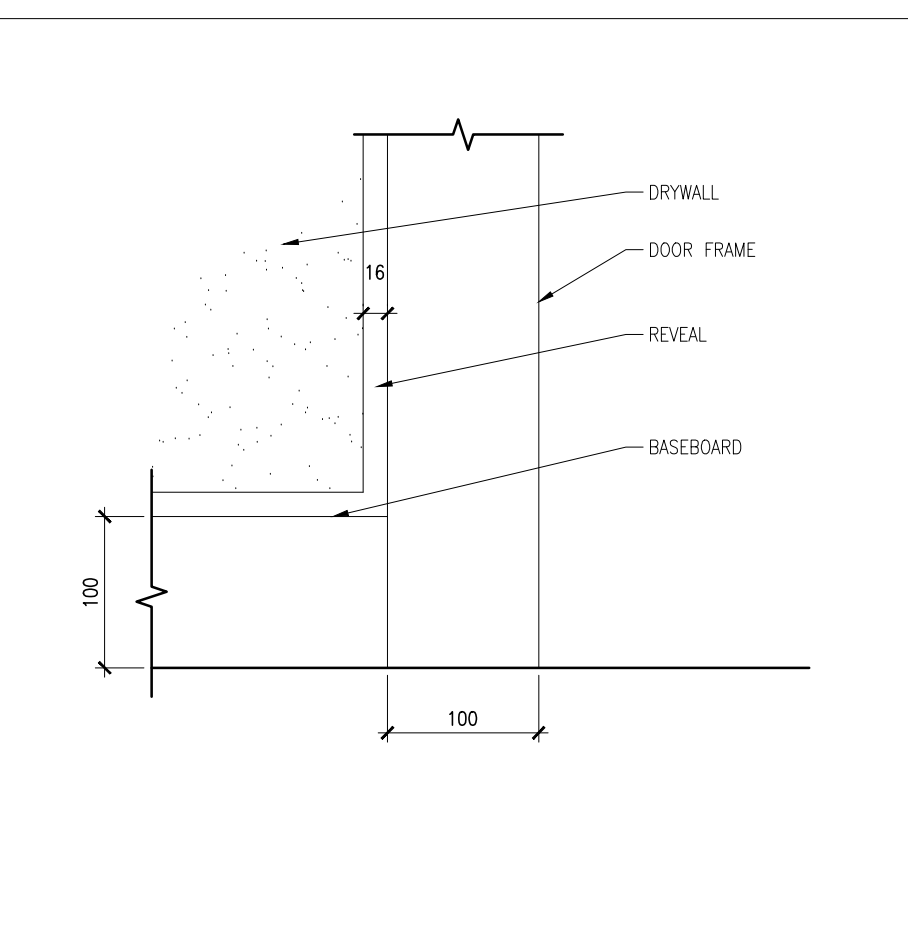
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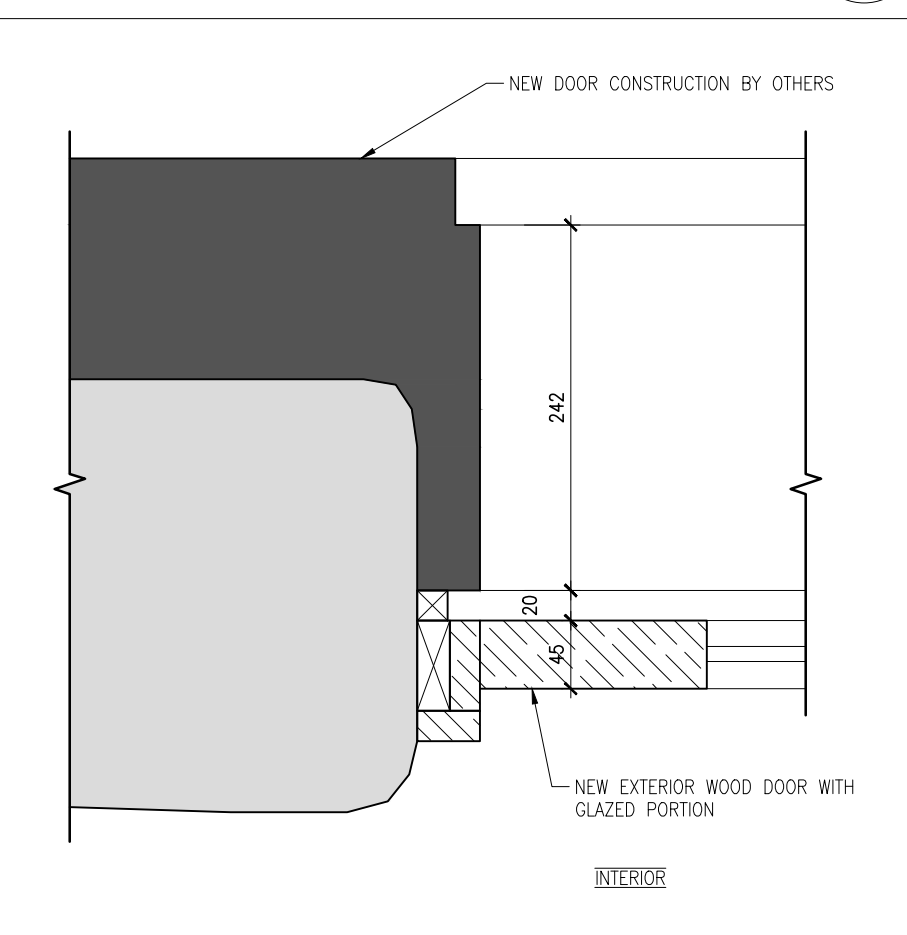
Retained Plaster Ceiling (Section) 17  
Scale 1:5 A602



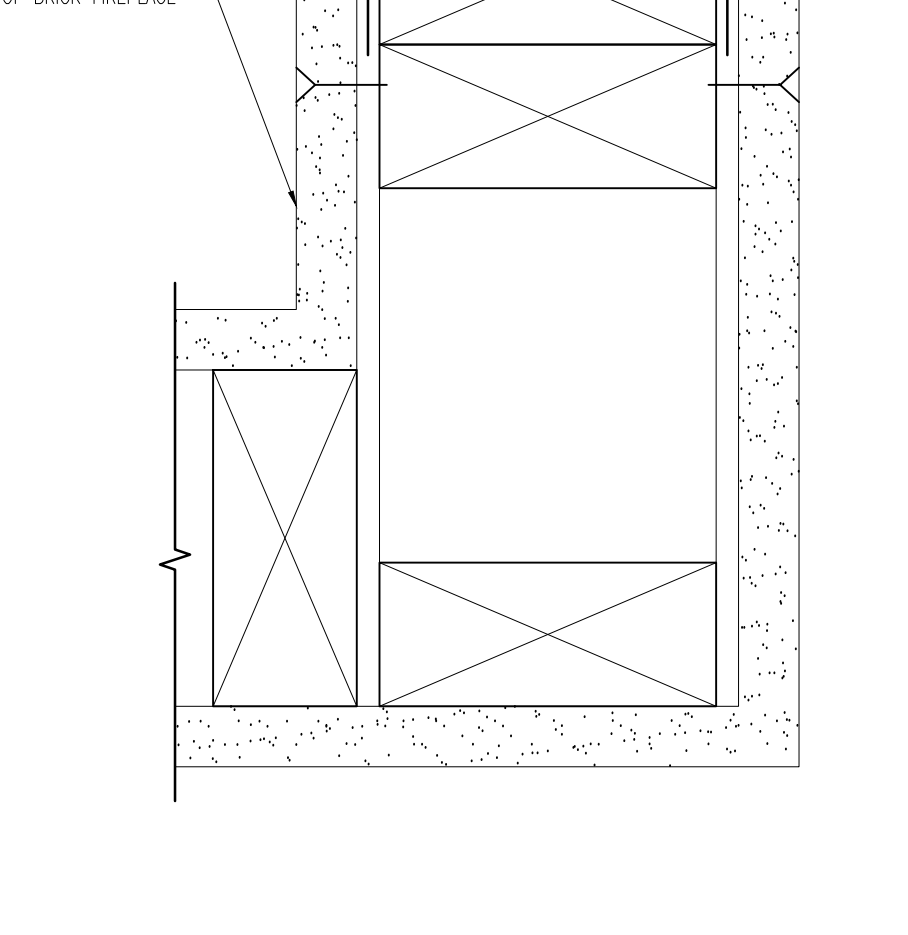
Exterior Condenser Unit Screening (Plan) 16  
Scale 1:2 A602



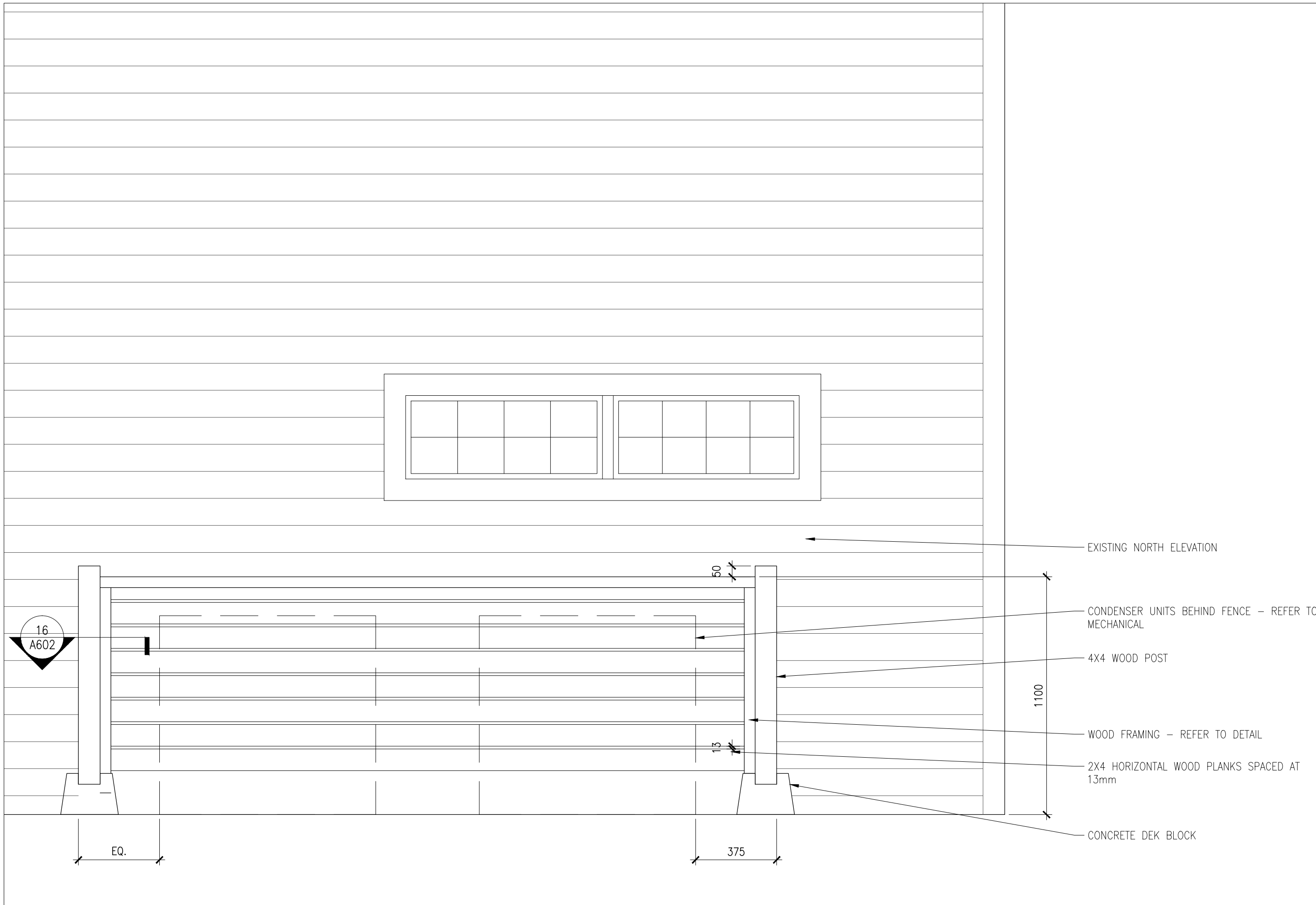
Door Trim (Elevation) 13  
Scale 1:5 A602



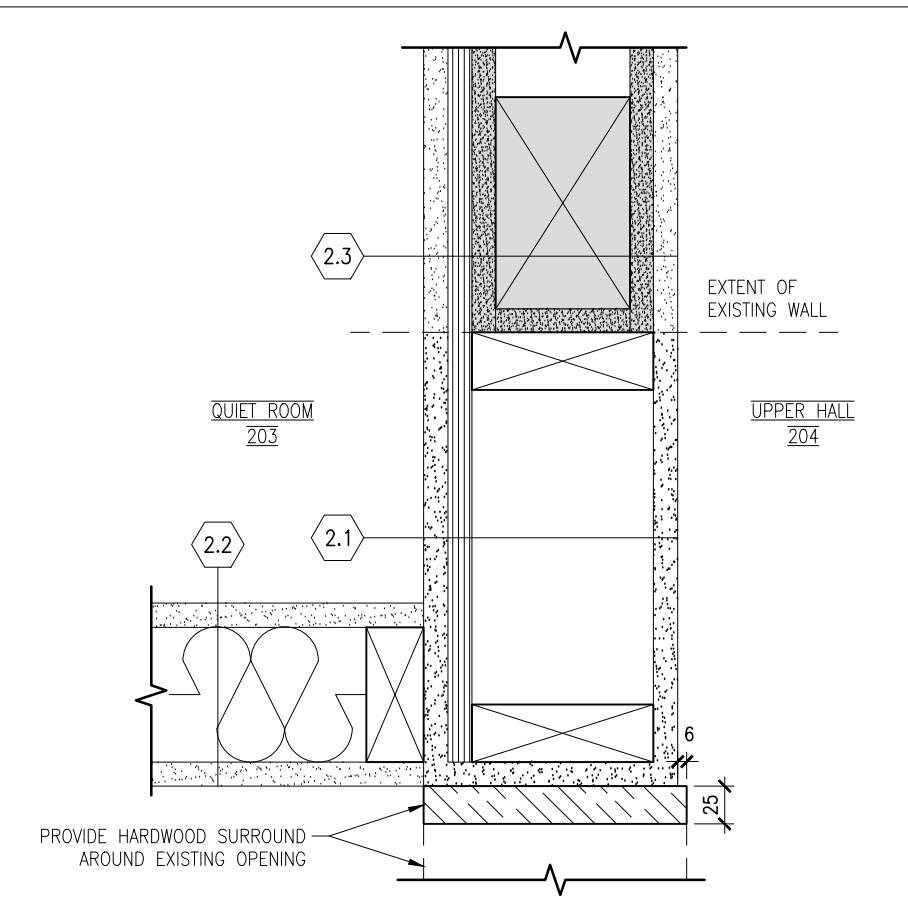
New door jamb (Plan) 8  
Scale 1:5 A602



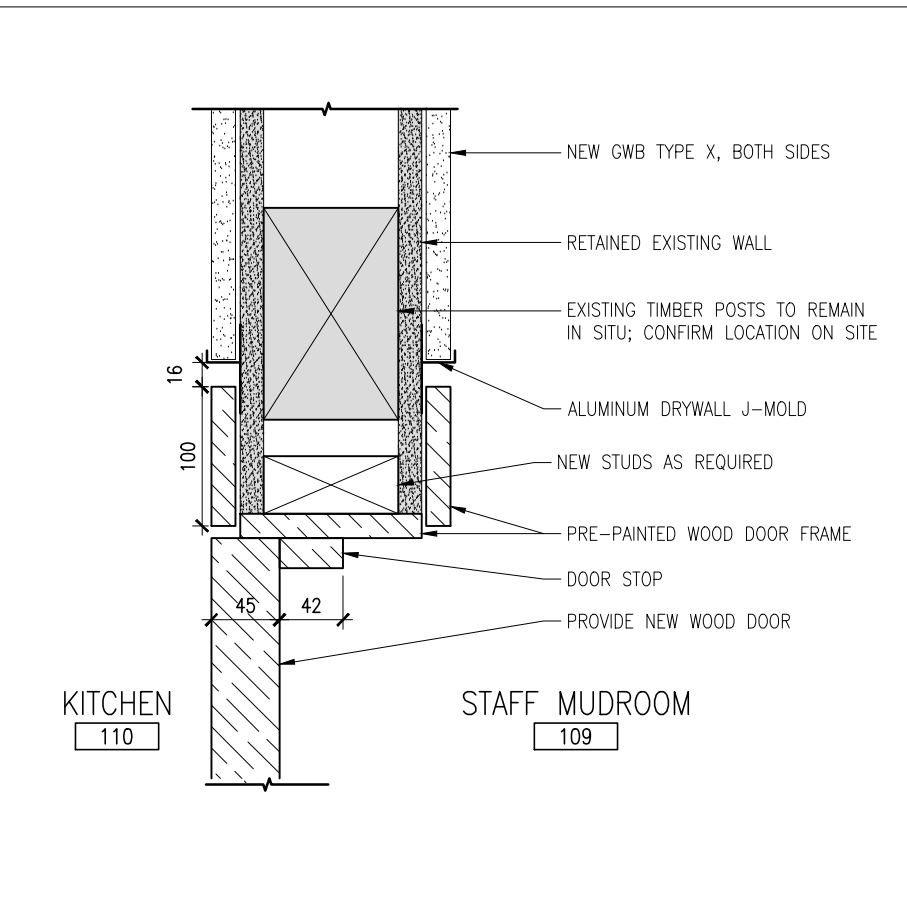
Interior Partition at Chimney (Plan) 4  
Scale 1:2 A602



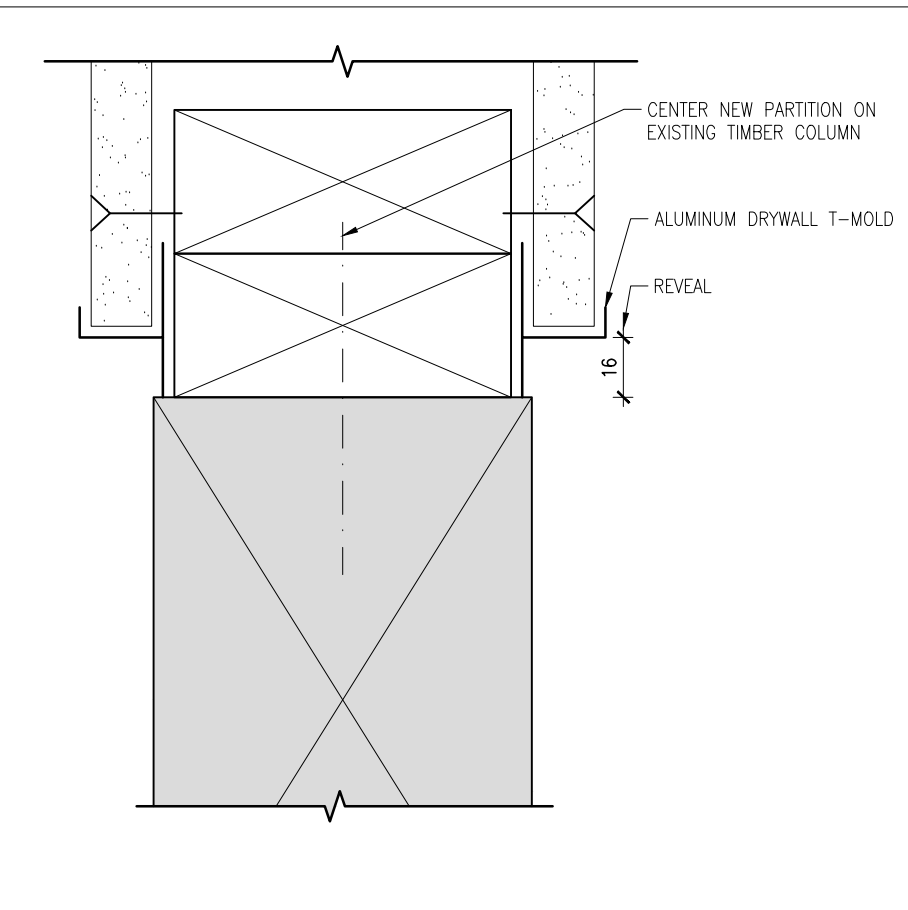
Exterior Condenser Unit Screening (Elevation) 15  
Scale 1:20 A602



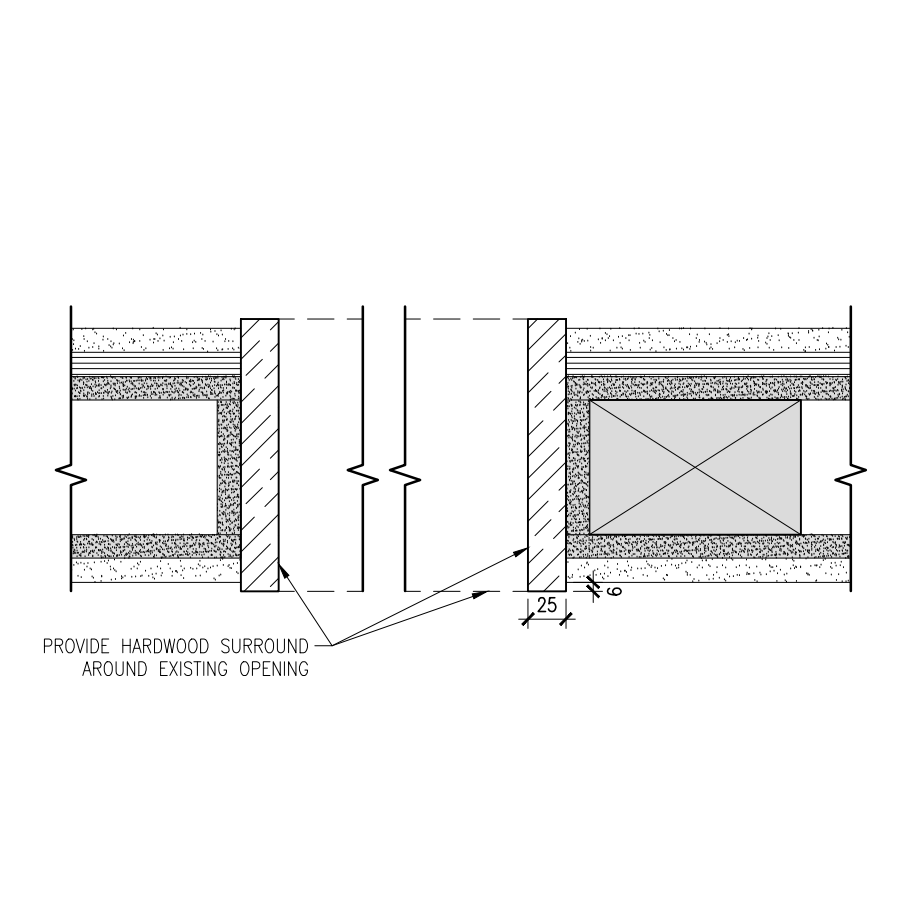
Existing Wall Modification (Plan) 12  
Scale 1:5 A602



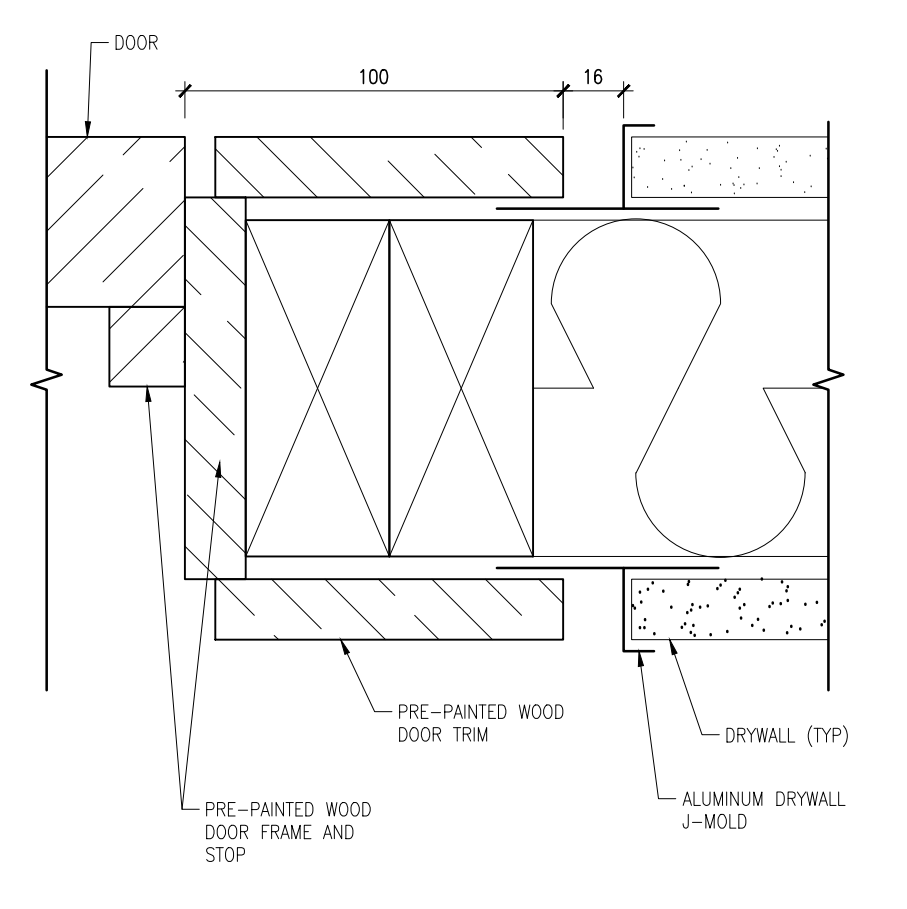
New opening in existing wall (Plan) 7  
Scale 1:5 A602



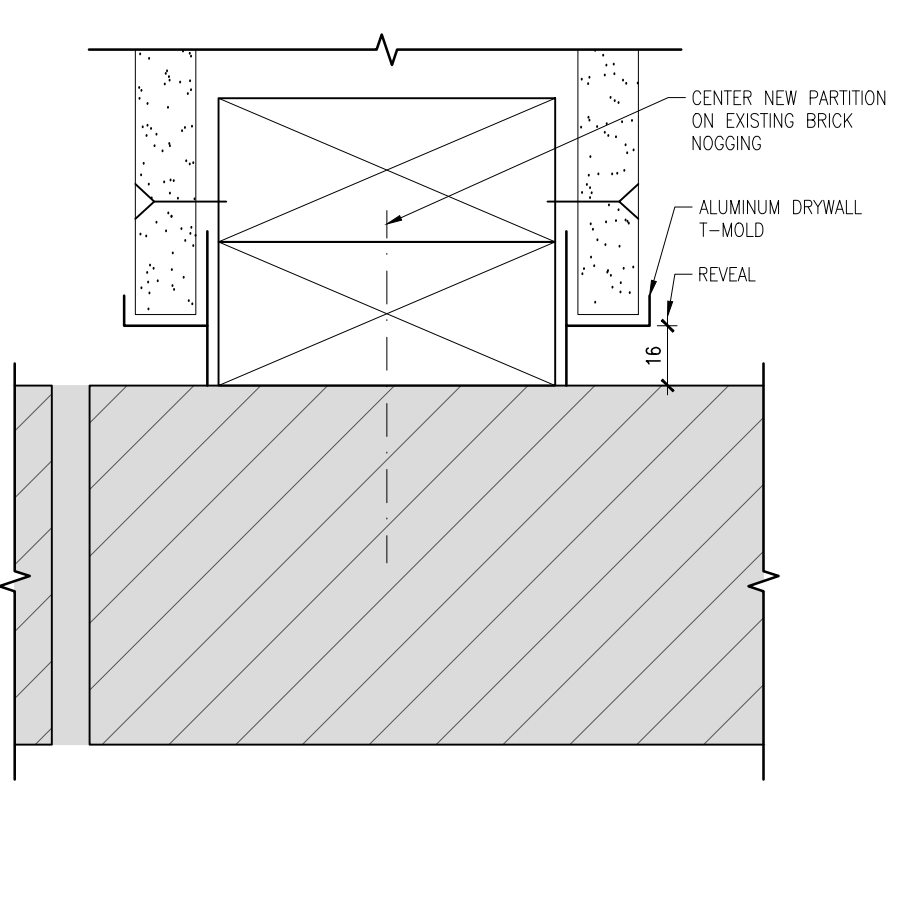
Interior Partition at timber column (Plan) 3  
Scale 1:2 A602



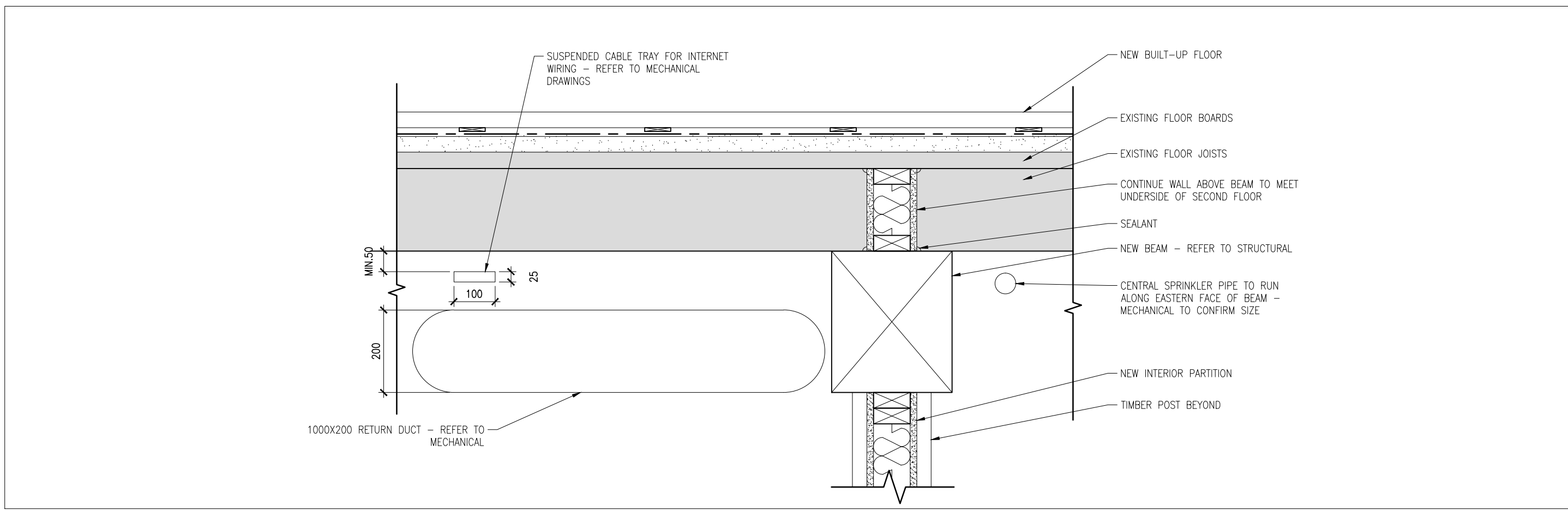
Hardwood Opening Surround (Plan) 11  
Scale 1:5 A602



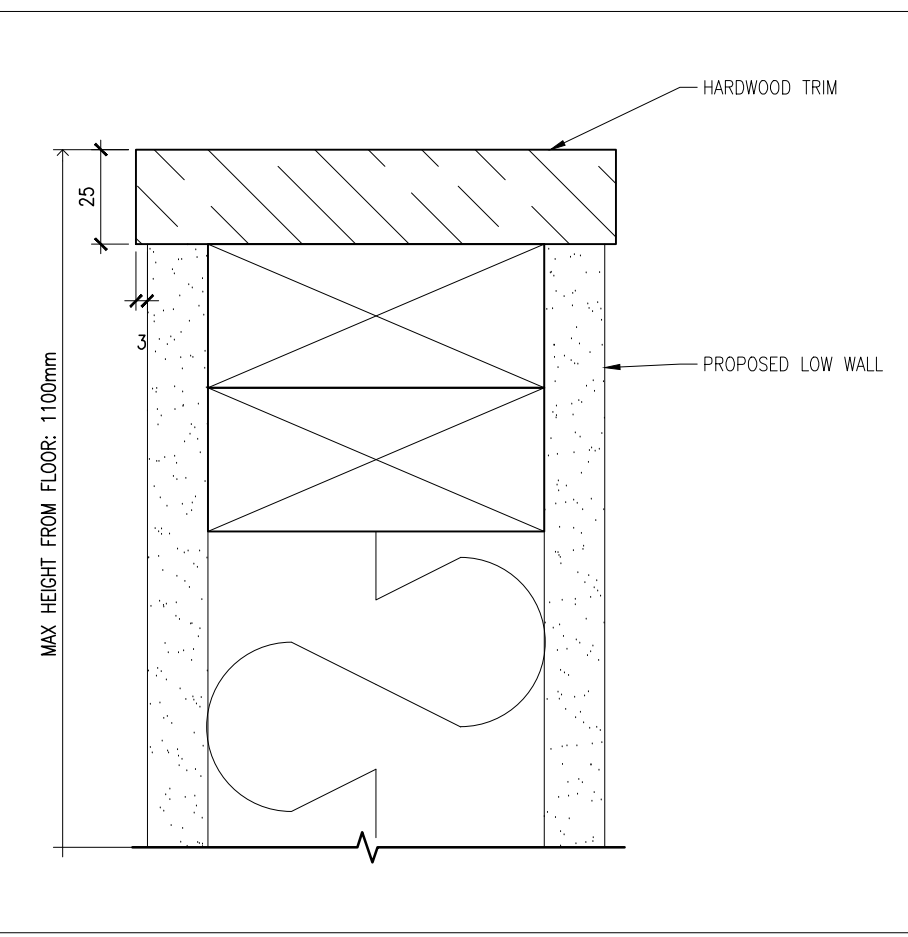
Door Frame (TYP) (Plan) 6  
Scale 1:2 A602



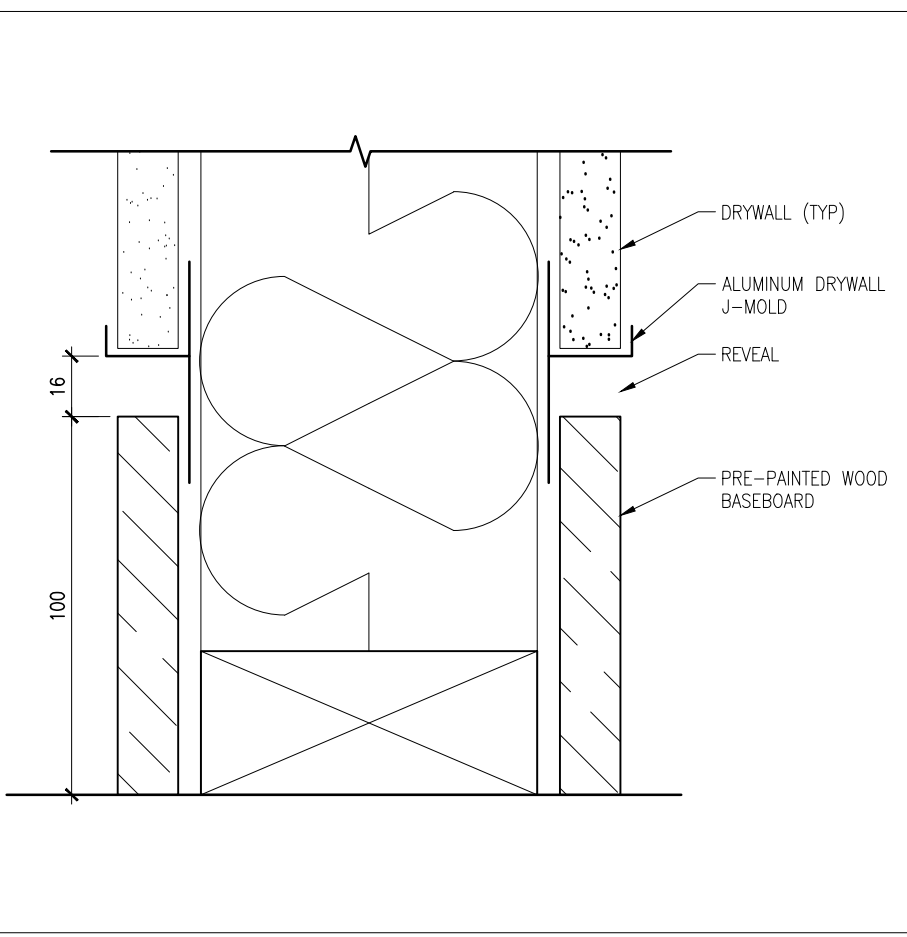
Interior Partition at brick nogging (Plan) 2  
Scale 1:2 A602



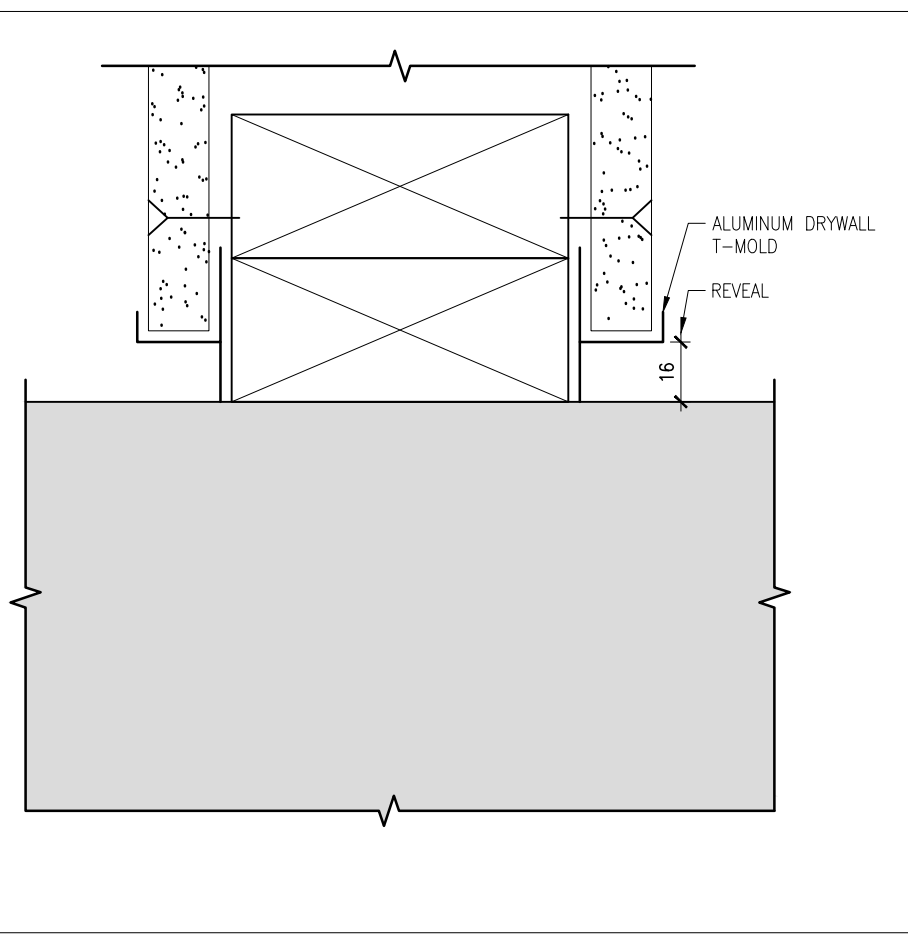
Ground Floor Ceiling (Section) 14  
Scale 1:10 A602



Low Wall (Section) 10  
Scale 1:2 A602



Wall Baseboard (Section) 5  
Scale 1:2 A602



Interior Partition at Timber Wall (Plan) 1  
Scale 1:2 A602

No.	Date	Description	Drawn by	Approved
3	17-03-13	TENDER	SL	JK
2	16-09-30	99% REVIEW	SL	JK
1	16-09-09	66% REVIEW	SL	JK

Revision / Révision	
A	A
B	B
C	C

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ONTARIO ASSOCIATION OF ARCHITECTS  
EDWIN J. BRUNSE  
LICENSED ARCHITECT

Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin

**GENERAL DETAILS**

Scale / Echelle	AS NOTED	
Drawn by / Dessiné par	Date	2017-03-13
Designed by / Conçu par	Date	2017-03-13
Checked by / Vérifié par	Date	2017-03-13
Approved by / Approuvé par	Date	2017-03-13

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		A602

TIME PLOTTED

DATE PLOTTED

PERSON PLOTTING

SCALE OF PLOT

VIEW PLOTTED

DRAWING NAME





**GENERAL NOTES:**

**ACCESS**

THE AREA IN AND AROUND THE TWO STOREY BUILDING STRUCTURE MAY CONTAIN VALUABLE AND SENSITIVE ARCHAEOLOGICAL RESOURCES. ADHERE STRICTLY TO THE CONTRACT DOCUMENTS WITH REGARD TO PROTECTION OF GROUND SURFACES, RESTRICT WORK TO DESIGNATED AREAS, NOTIFY DEPARTMENTAL REPRESENTATIVE UPON DISCOVERY OF RELICS, ETC.

ACCESS, WORK AND STORAGE AREAS SHALL BE LIMITED TO THOSE AREAS DESIGNATED ON DRAWINGS. NO CONSTRUCTION ACTIVITIES SHALL BE ALLOWED IN AREAS OUTSIDE THE LIMITS SHOWN.

ALL ACCESS WORKS TO BE RESTRICTED TO IMMEDIATE AREA ADJACENT TO THE PORTION OF THE BUILDING EFFECTED.

PROVIDE SCAFFOLDING, LADDERS, ACCESS LIFTING EQUIPMENT, etc. AS NECESSARY TO CARRY OUT THE WORK OF ALL TRADES. ALL WORK TO BE IN ACCORDANCE WITH OCCUPATIONAL HEALTH AND SAFETY ACT, MAKE ALL CHANGES REQUIRED BY THE MINISTRY OF LABOUR OFFICIALS.

FIELD MEASURE TO ENSURE PROPER FIT OF ALL WORKS.

PREPARE SHOP DRAWINGS, AND SUBMIT FOR REVIEW, SHOWING THE LOCATION AND ALL DETAILS FOR ACCESS TO THE WORK.

STANDARD STEEL FRAME SCAFFOLDING WILL BE REQUIRED IN DESIGNATED AREAS. ACCESS USING ONLY MOBILE MAN BUCKETS WILL NOT BE ACCEPTABLE.

SCAFFOLDING SHALL BE ERECTED ON WOOD SILLS OF SUFFICIENT SIZE TO ENSURE NO DAMAGE TO EXISTING FEATURES. PROVIDE CONTINUOUS TARPS TO PREVENT DISCOLOURATION OR CONTAMINATION OF SURFACES AND TO PROTECT GRASS, SHRUBS AND FLOWER BEDS UNDER AND AROUND THE SCAFFOLDING.

PROVIDE FULL HEIGHT STAIRS OR SUITABLE LADDERS TO SCAFFOLDING FOR EACH SECTION OF SCAFFOLD ISOLATED FROM OTHER SECTIONS. ACCESS FROM STAIRS OR LADDERS TO EACH SCAFFOLD LEVEL SHALL BE FREE OF ALL OBSTRUCTIONS AND CROSS BRACING.

SCAFFOLDING SHALL NOT BE PLACED ON ANY ROOF STRUCTURE WITHOUT THE CONTRACTOR'S STRUCTURAL ENGINEER ANALYSIS OF THE ROOF AND ROOF SUPPORTS AND DESIGN STRENGTHENING, AS REQUIRED, TO SUPPORT LOADS AND PREVENT DAMAGE TO SURFACES.

SUPPLY, MAINTAIN AND REMOVE PLYWOOD COVERS OR OTHER PROTECTIVE MEASURES APPROVED BY THE ENGINEER TO PROVIDE SECURITY AND PROTECTION TO EXISTING ARCHITECTURAL FEATURES OF THE BUILDING.

**MASONRY**

DO ALL MASONRY RESTORATION TO CAN3-A371-M84, EXCEPT AS MODIFIED BY THESE DRAWINGS AND THE CONTRACT SPECIFICATIONS. ALL MASONRY RESTORATION IS TO PRESERVE HERITAGE APPEARANCE.

PROVIDE ALL NECESSARY ACCESS TO COMPLETE THE WORK.

WHERE FACE BRICKWORK OR POINTING IS REMOVED, STABILIZE AND PROVIDE PROTECTION TO EXPOSED MASONRY FROM WEATHER.

WHERE BRICKWORK IS REMOVED, PROVIDE TEMPORARY BRACING AND SHORING TO ENSURE REMAINING MASONRY IS STABLE.

BRICKWORK DESIGNATED FOR REMOVAL MAY BE INSPECTED BY ENGINEER FOR DEFECTS AND REUSED WHEN POSSIBLE. IN GENERAL HOWEVER, MOST BRICK DESIGNATED FOR REMOVAL WILL ATTEMPT TO BE SALVAGED.

NO BRICKS ARE TO BE REPAIRED OR REPLACED WITHOUT PRIOR INSPECTION AND APPROVAL OF THE ENGINEER.

MASONRY JOINTS ARE TO BE CHIPPED AND REPOINTED AS INDICATED OR AS DIRECTED.

NO CLEANING OF THE EXISTING BRICKWORK IS TO BE CARRIED OUT OTHER THAN THAT REQUIRED TO RESTORE EXISTING APPEARANCE AS A RESULT OF SPILLAGE OF MORTAR, EPOXY, etc. RESULTING FROM THE WORK OF THIS CONTRACT.

**GENERAL NOTES:**

**METAL WORK FLASHING**

THE SHEET METAL FABRICATOR AND APPLICATOR SHALL BE OF RECOGNIZED STANDING WITH A PROVEN RECORD OF SATISFACTORY INSTALLATIONS USING TRADITIONAL MATERIALS AND INSTALLATION TECHNIQUES.

FURNISH A TWO (2) YEAR WARRANTY, BACKED WITH A BOND, ON ALL METALWORK INSTALLED UNDER THIS CONTRACT, UNDERTAKING TO REPAIR PROMPTLY ALL DEFECTS BECOMING EVIDENT DURING THE PERIOD OF THIS GUARANTEE.

ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY CONFORMING TO THE BEST TRADITIONAL PRACTICE AND BE TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

SUBMIT, TO THE ENGINEER FOR APPROVAL, SAMPLES OF ALL MATERIALS SPECIFIED PRIOR TO FABRICATION OR COMMENCEMENT OF WORK ON SITE.

SUBMIT SHOP DRAWINGS TO THE ENGINEER OF ALL DECORATIVE SHEET METALWORK AND CRICKET.

PROVIDE JOB-SITE OR SHOP MOCK-UPS OF TYPICAL SECTIONS OF THE WORK AS AND WHEN REQUIRED BY THE ENGINEER.

**PAINTING**

PROVIDE FOR ALL WORK TO BE DONE BY SKILLED AND EXPERIENCED TRADESMEN SPECIALIZING IN THIS TYPE OF WORK.

USE SUFFICIENT DROP CLOTHS AND PROTECTIVE COVERINGS FOR THE FULL PROTECTION OF WORK NOT BEING PAINTED. PROTECT HARDWARE AND ALL OTHER COMPONENTS OF THE BUILDING, WHICH DO NOT REQUIRE PAINTING, FROM PAINT SPOILING AND OTHER SOILING DURING THE PAINTING PROCESS.

PROVIDE METAL PANS OR ADEQUATE TARPULIN IN AREAS ASSIGNED TO THE MIXING OF PAINTS.

KEEP WASTE RAGS IN METAL DRUMS CONTAINING WATER AND REMOVE AT THE END OF EVERY WORKING SHIFT.

THE PAINTING CONTRACTOR SHALL REMOVE FROM THE PROPERTY ALL EXCESS MATERIAL, LEFT OVERS AND SCRAP, AS WELL AS HIS OWN EQUIPMENT, AT THE END OF THE JOB.

THE OWNER WILL BE PROVIDED WITH EXTRA STOCK OF EACH PAINT COLOUR USED, LABELLED AS TO ITS APPROPRIATE LOCATION OF USE.

DO NOT PAINT IN UNCLEAN AREAS.

BACK PRIMING OF ALL NEW WOOD SHALL BE CONSIDERED A STANDARD REQUIREMENT.

APPLICATION AND DRYING OF EXTERIOR PAINTS SHALL NOT PROCEED AT TEMPERATURES BELOW 10 DEG. C.

EXTERIOR PAINTING SHALL NOT PROCEED WHEN THE SUBSTRATE SURFACE IS DAMP WITH MORNING DEW.

EXTERIOR PAINTING SHALL NOT PROCEED DURING PERIODS OF RAIN AND SHALL NOT RESUME UNTIL THE WETTED SURFACE HAS FULLY DRIED.

MOISTURE CONTENT, OF WOOD, MUST NOT EXCEED 15% PRIOR TO APPLYING PAINT.

**CEDAR SHINGLES:**

THE SHINGLER AND HIS PERSONNEL SHALL BE OF RECOGNIZED STANDING IN THE INDUSTRY, WITH A PROVEN RECORD OF SATISFACTORY SHINGLE INSTALLATION OVER FIVE YEARS AND SHALL BE TO THE APPROVAL OF THE ENGINEER.

PROVIDE TYPICAL "MOCK-UP" PANEL OF GENERAL CEDAR SHINGLE COURSING FOR APPROVAL BY ENGINEER.

THE OWNER RESERVES THE RIGHT TO REQUEST THE TESTING OF SAMPLES OF THE SHINGLES BY AN INDEPENDENT TESTING AGENCY TO ENSURE QUALITY OF SHINGLES PRIOR TO GENERAL SHIPPING OF SHINGLES AND/OR OF TYPICAL SHINGLES FROM THE MATERIAL DELIVERED TO THE SITE. TESTING FAILURE MAY BE CAUSED FOR REJECTION. LIKEWISE THE OWNER MAY WAIVE LABORATORY TESTING IF HE FEELS IT IS REASONABLE TO DO SO.

RETAIN SHINGLES ON PALLETS. SELECT FOR USE AS REQUIRED.

SCAFFOLDING, TOE-HOLDS, APPLICATOR'S PLATFORMS AND OTHER APPARATUS EMPLOYED BY THE SHINGLER SHOULD, WHEN REMOVED, LEAVE NO TRACE OF ITS PRESENCE AND NOT COMPROMISE IN ANY WAY THE WEATHER TIGHTNESS OF THE ROOF.

**CEDAR SIDING:**

MANUFACTURERS SHALL BE A MEMBER OF THE WESTERN RED CEDAR LUMBER ASSOCIATION CAPABLE OF PROVIDING ALL WESTERN RED CEDAR SIDING MATERIALS SPECIFIED IN SPECIFICATION

CLEAR CEDAR BEVEL SIDING: WESTERN RED CEDAR, CLEAR V.G.HEART GRADE, TO NLGA STANDARD GRADING RULES AND WCLB GRADING STANDARDS.

BEVEL SIZE: 14 MM THICK BUTT, 5 MM TIP, 203 MM HIGH NOMINAL BOARD WITH 50 MM LAF.

**SCOPE of WORK ROOFING AND SIDING:**

(ALSO SEE SPECIFICATION)

SETUP WORK AND STORAGE AREAS AND INSTALL (SCAFFOLDING) ACCESS/PROTECTION NECESSARY TO COMPLETE ALL OF THE WORKS INDICATED WITHIN LIMITS.

PROVIDE COVERS, TARPS, ETC. AS REQUIRED TO MAINTAIN WEATHER-TIGHTNESS OF THE STRUCTURE AT ALL TIMES DURING THE COURSE OF THE WORK.

REMOVE AND REPLACE EXISTING ROOFING SHINGLES WITH NEW CEDAR SHINGLE ROOFING AND ASSOCIATED TERNE COATED STAINLESS STEEL FLASHINGS AND REPLACE WITH NEW 9.5mm PLYWOOD SHEATHING.

REMOVE AND REPLACE DETERIORATED WOOD FASCIA, SOFFIT AND FRIEZE WITH NEW WOOD ELEMENTS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.

COMPLETE MASONRY REPOINTING OF BRICK CHIMNEYS. BRICK REPLACEMENT AND REPAIR TO THE CHIMNEY'S AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.

REMOVE AND REPLACE ALL SIDING, BLOCKING, INSULATION AND VAPOUR BARRIERS.

REMOVE AND REPLACE ALL WINDOWS AND WINDOW FLASHING ETC.

REMOVE AND REPLACE EXTERIOR DOORS.

DEPARTMENTAL REPRESENTATIVE WILL ASSESS LOGS, ORIGINAL SIDING AND FRAMING BEHIND VISIBLE SIDING AND BLOCKING AND PROVIDE DIRECTION AS TO CONSERVATION AND REPAIRS.

RE-GRADE EARTH ADJACENT TO BUILDING TO ENSURE DRAINAGE AWAY FROM STRUCTURE OCCURS.

CLEANUP SITE AND RESTORE FEATURES DAMAGED BY THIS WORK TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.

REMOVE ALL ACCESS WORKS AND COMPLETE ASSOCIATED CLEANUP TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.

TIME PLOTTED GENERAL NOTES

DATE PLOTTED

PERSON PLOTTING

SCALE OF PLOT

VIEW PLOTTED

DRAWING NAME



1	23/12/16	ISSUED FOR INTERNAL REVIEW	L.N.G.	D.A.H.
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision			
A	A Detail number No. du détail	A	
B	B Location dwg. no. No. sur dessin	B	C
C	C Drawing sheet no. No. du dessin		



Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

**NIAGARA-ON-THE-LAKE ONTARIO**

Drawing title / Titre du dessin

**GENERAL NOTES**

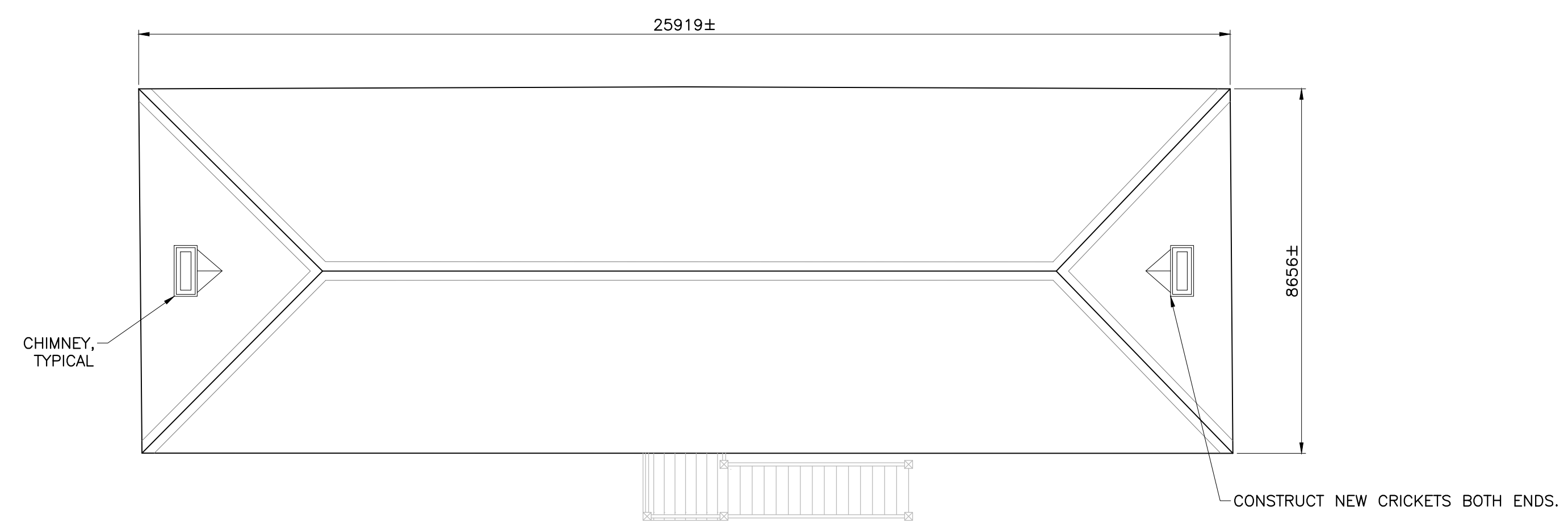
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AS SHOWN		
Drawn by/ Dessiné par	Date	
L.N.GUILBEAU	13/03/17	
Designed by/ Conçu par	Date	
D.A.HUCTION	13/03/17	
Checked by/ Vérifié par	Date	
Approved by / Approuvé par	Date	

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		
Drawing Reference No./Numéro de Référence du Dessin		S1

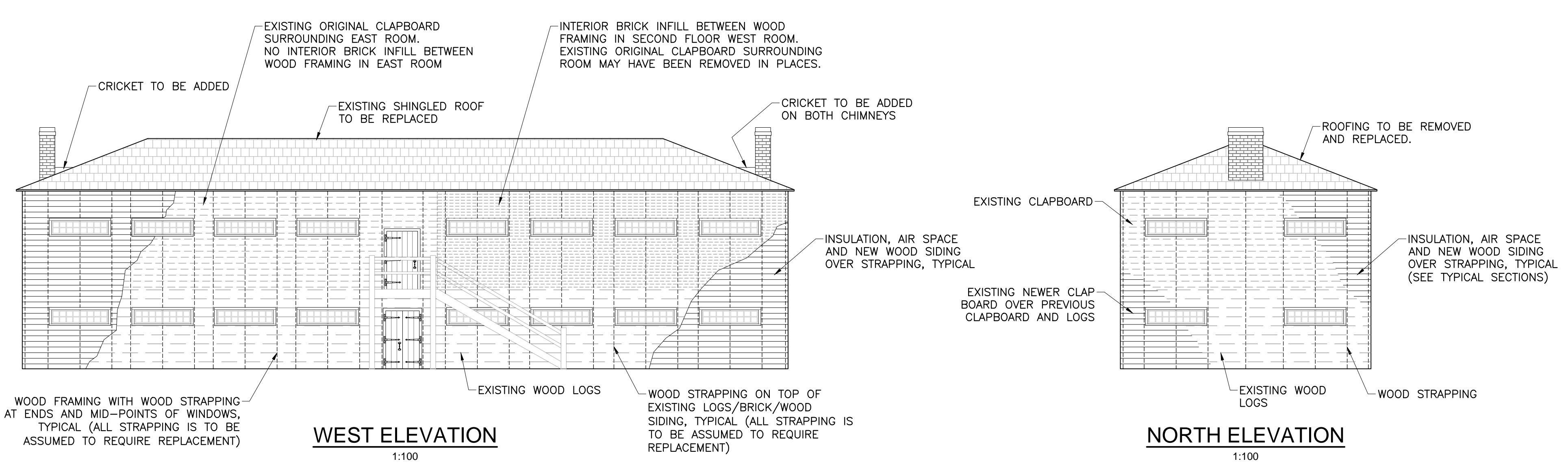




**NOTE:**  
THE EXISTENCE OF ANIMAL EXCREMENT WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTACT WITH THE SUBSTANCES.

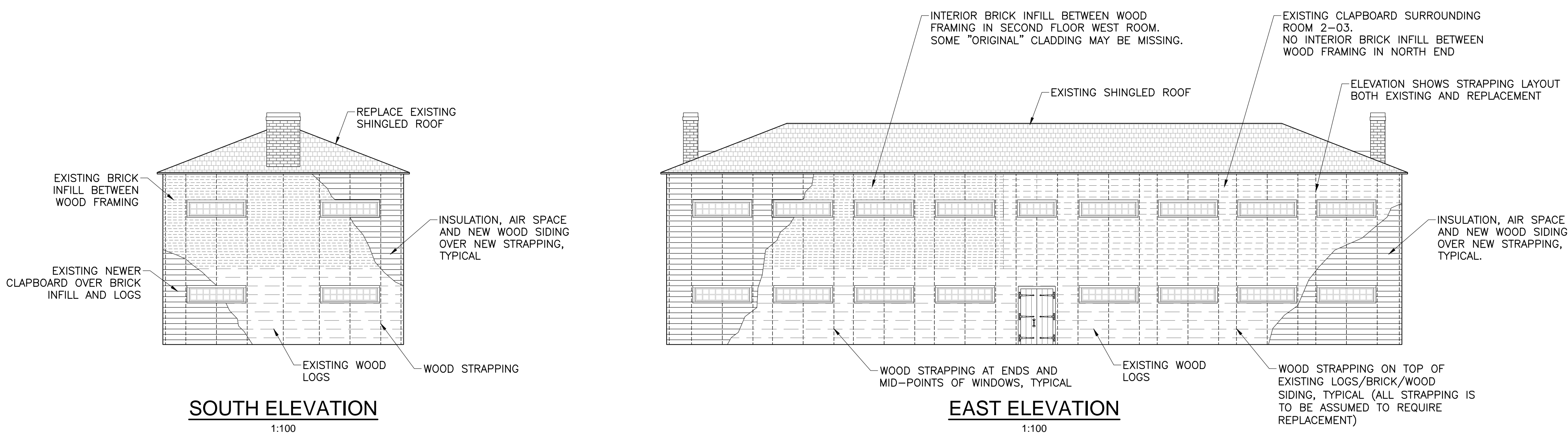


**ROOF PLAN**  
1:100



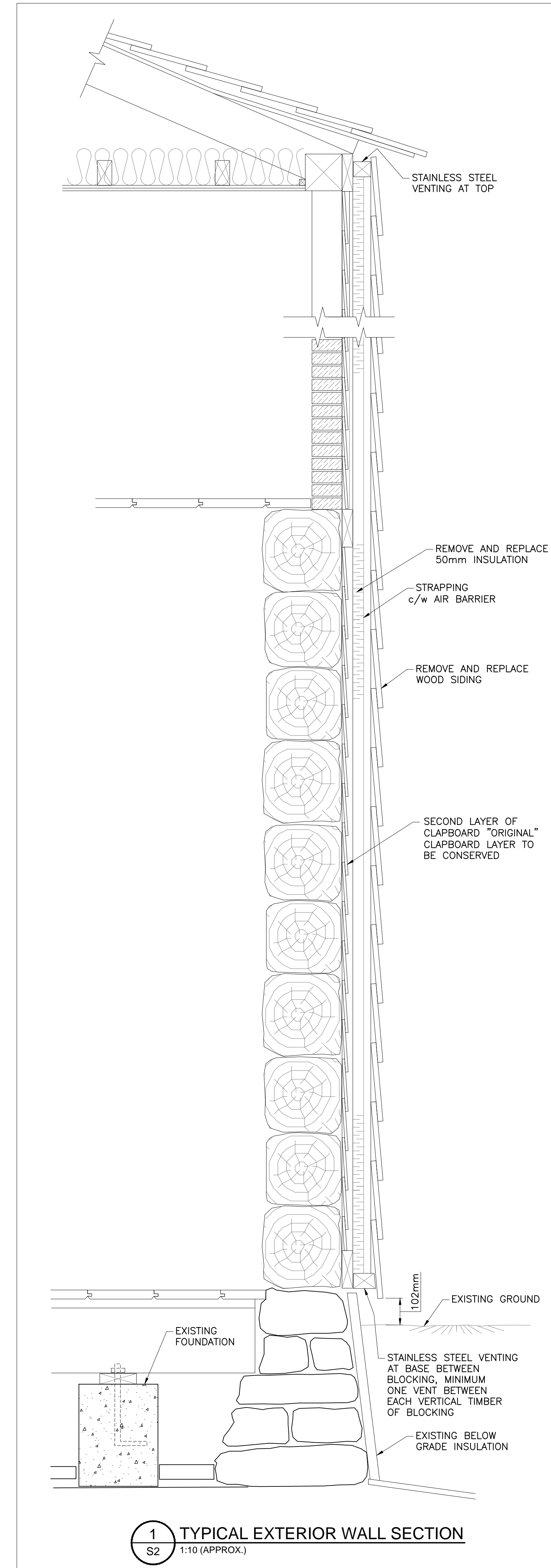
**WEST ELEVATION**  
1:100

**NORTH ELEVATION**  
1:100



**SOUTH ELEVATION**  
1:100

**EAST ELEVATION**  
1:100



**1 TYPICAL EXTERIOR WALL SECTION**  
1:10 (APPROX.)

1	23/12/16	ISSUED FOR INTERNAL REVIEW	L.N.G.	D.A.H.
No.	Date	Description	Drawn by	Approved
Revision / Révision				
A		A Detail number	A	
B		B Location dwg. no.	B	
C		C Drawing sheet no.	C	



Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

**NIAGARA-ON-THE-LAKE ONTARIO**

Drawing title / Titre du dessin  
**NEW WOOD BLOCKING LAYOUT**

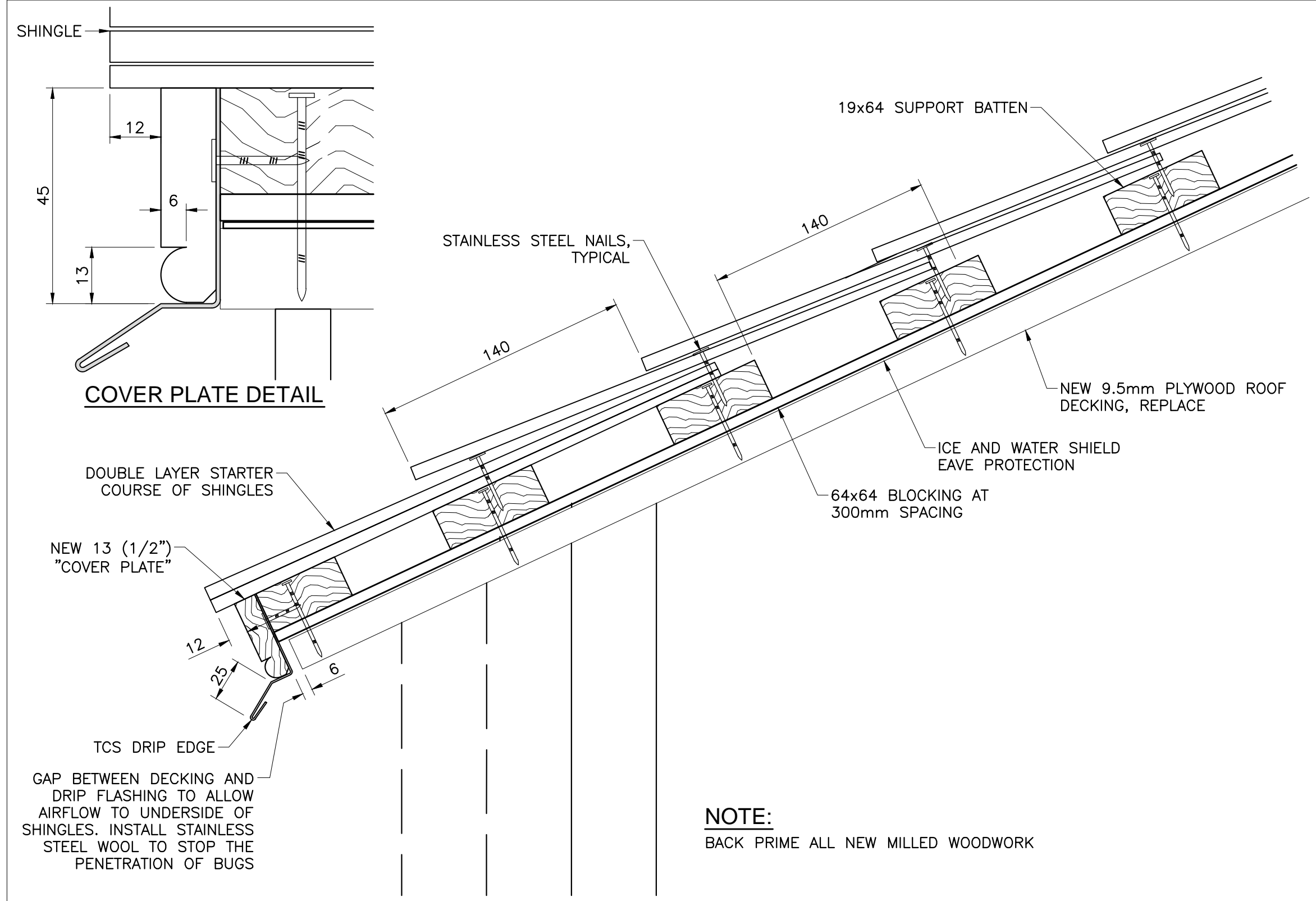
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L.N.GUILBEAU	13/03/17
Designed by / Conçu par	Date
D.A.HUCTION	13/03/17
Checked by / Vérifié par	Date
Approved by / Approuvé par	Date

Project No./No. du projet	Client No./No du client	Sheet No./Feuille No.
30224201		S2
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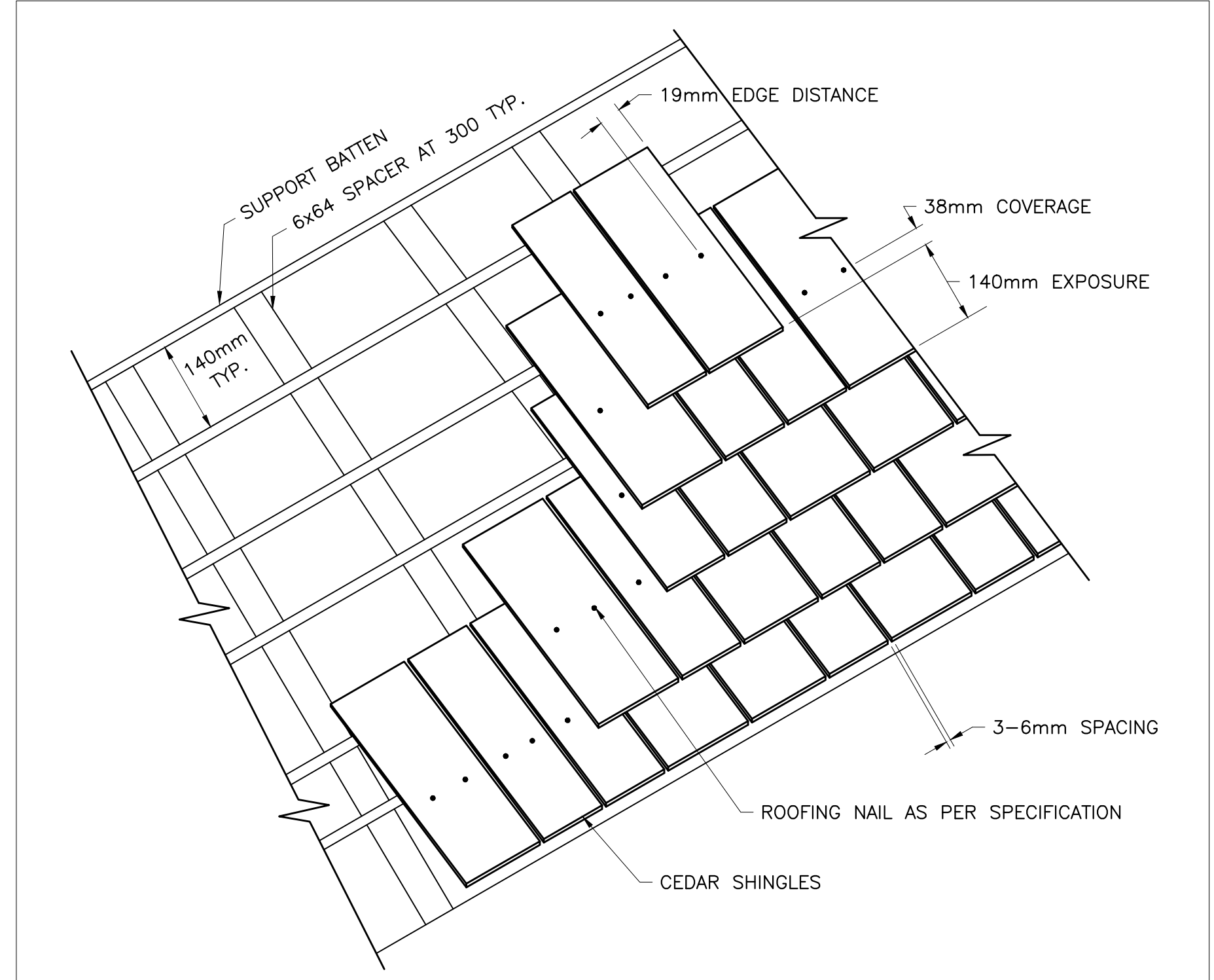
TIME PLOTTED  
DATE PLOTTED  
PERSON PLOTTING  
SCALE OF PLOT  
VIEW PLOTTED  
DRAWING NAME

**NOTE:**  
THIS DRAWING SHOWS THE GENERAL CURRENT CONFIGURATION OF THE EXTERIOR OF THE BUILDING. ALL SIDING, WOOD STRAPPING, ROOFING, WINDOWS, FLASHING ETC. ARE TO BE REPLACED IN ACCORDANCE WITH THE DETAILS PROVIDED IN THE DRAWINGS AND CONTRACT DOCUMENTS.





1 TYPICAL EAVE  
S3 1:2.5



2 TYPICAL CEDAR INSTALLATION ON MODIFIED DECKING  
S3 N.T.S.

**NOTES FOR SHINGLES AND FLASHING WORK:**

STRIP ALL CEDAR SHINGLES AND EXISTING METAL CLADDING. REPLACE WITH NEW CEDAR ROOFING SHINGLES TO BE LAID ON BATTEN SUPPORTS. SUPPORTS INSTALLED OVER SPACERS PLACED IN DIRECTION OF ROOF SLOPES. BREATHABLE WATER RESISTANT MEMBRANE TO BE PLACED OVER ALL AREAS EXCEPT WERE WATERPROOF MEMBRANE IS REQUIRED. ICE AND WATER SHIELD TYPE WATERPROOF MEMBRANE SHALL BE INSTALLED OVER NEW PLYWOOD SHEATHING TO ACT AS PROTECTION, AROUND CHIMNEYS AND DORMERS WITH A MIN. OF 1.5m AT EAVE AND EXTENDING 500mm DOWN FROM PERIMETER OF RIDGE. EXTEND UP BEHIND TERNE COATED STAINLESS STEEL (TCS) FLASHINGS AT ALL VERTICAL PROJECTIONS.

CEDAR SHINGLES TO BE NEW CERTIGRADE BLUE LABEL WESTERN RED CEDAR SHINGLES (PERFECTIONS).

ALL TERNE COATED STAINLESS STEEL (TCS) METAL IS TO BE PRIMED NEW TERNE COATED STAINLESS STEEL (TCS) METALWORK MATCHING EXISTING FEATURES SHALL BE 28 ga. AS DETAILED ON THIS DRAWING AND/OR AS DIRECTED BY THE ENGINEER. NEW TCS WORK IS TO BE PLACED OVER SLIP SHEET AND 'ICE AND WATER' SHIELD TYPE MEMBRANE.

CEDAR SHINGLES AND TCS WORK SHALL BE SET TO THE DIRECTION OF WATER FLOW.

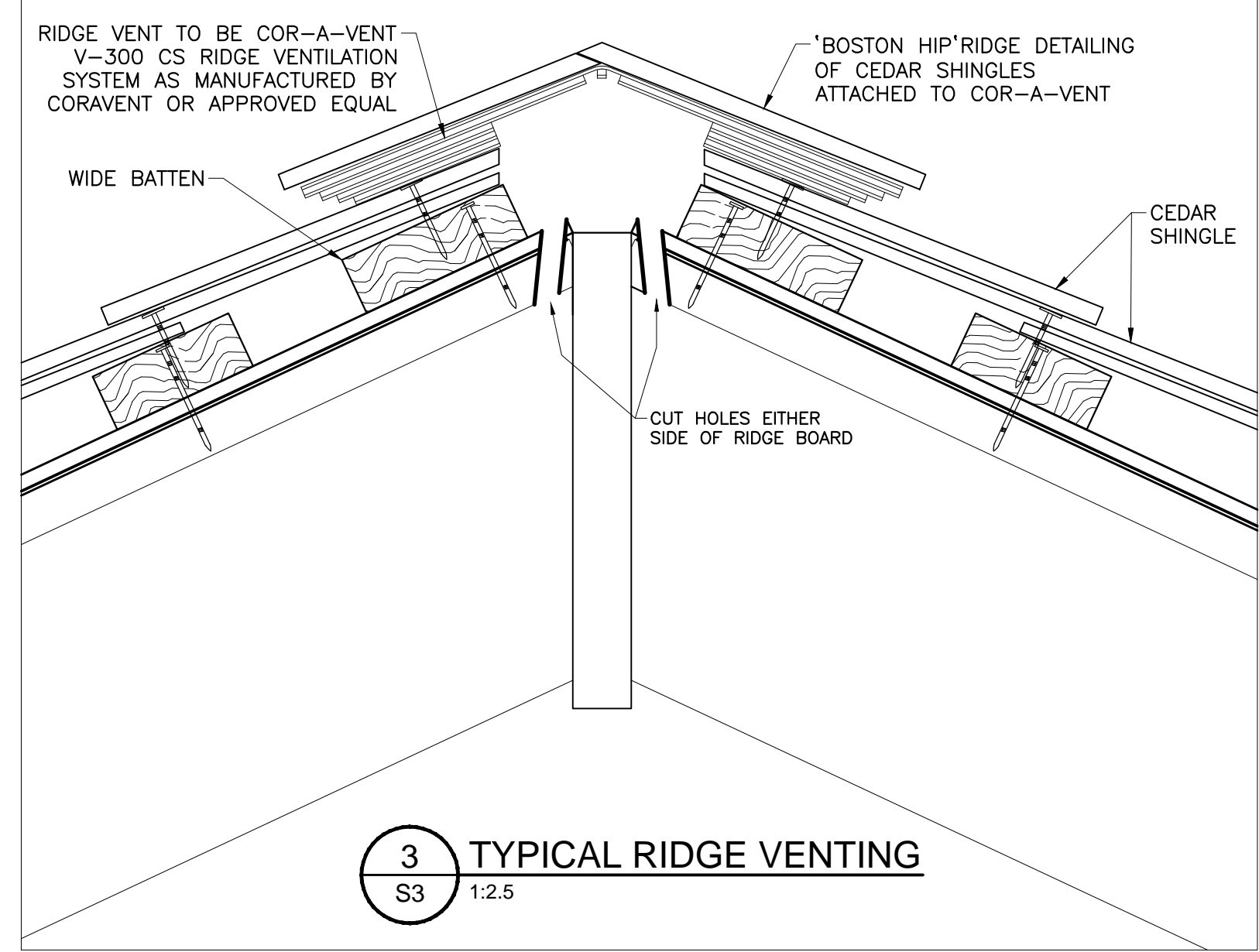
INTEGRATE CEDAR SHINGLE ROOF TCS WORK WITH NEW LOW SLOPE CEDAR SHINGLE WORK OF THE SHED DORMER AS DETAILED AND/OR AS DIRECTED BY THE ENGINEER.

SECURE TCS WORK TO SUBSTRATE WITH TERNE COATED STAINLESS STEEL (TCS) CLEATS AS DETAILED.

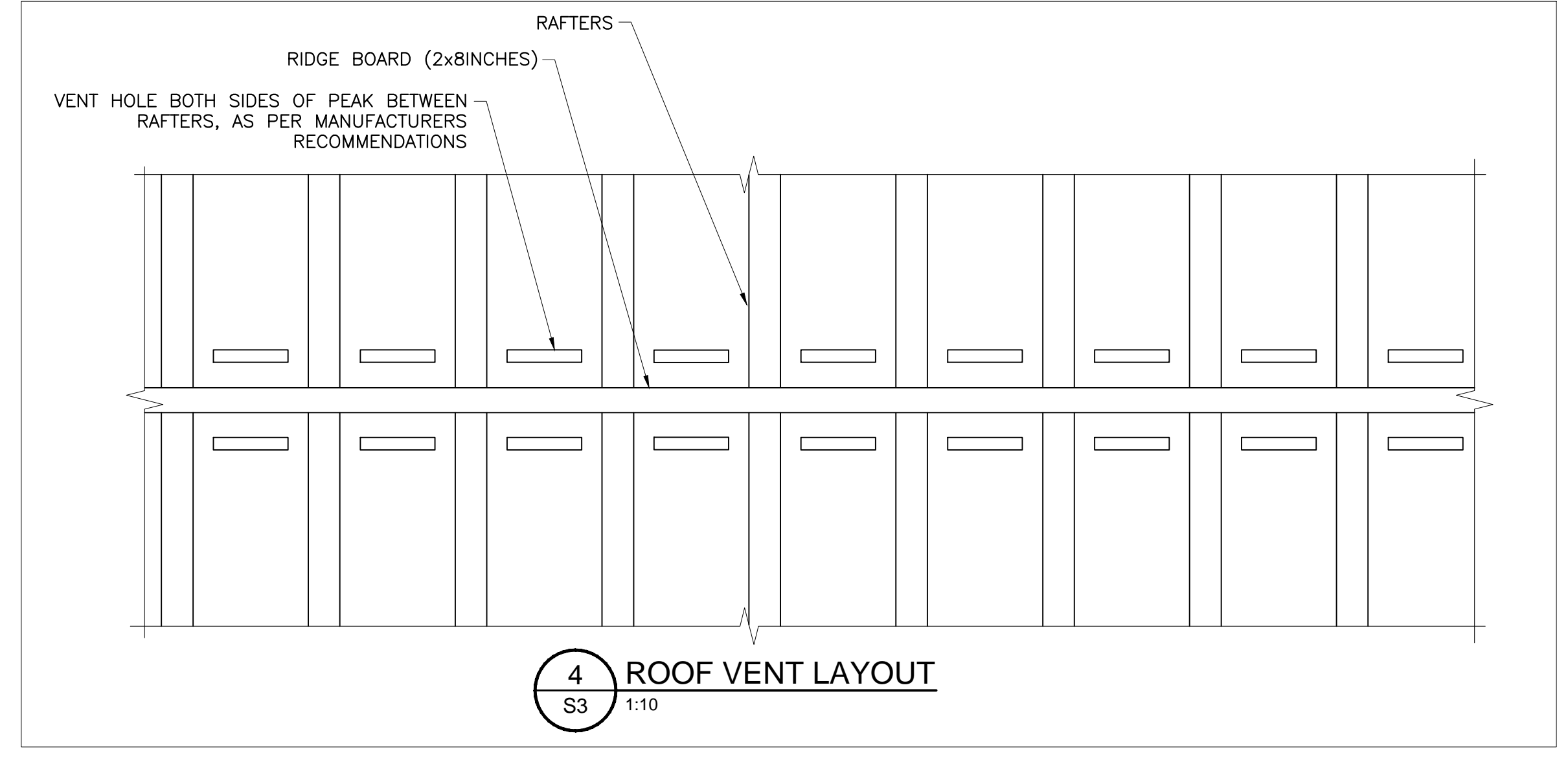
IN GENERAL, RETAIN EXISTING CANTS, LEVELS, PITCHES AND METAL FLASHING FORM. EXPOSED SUBSTRATE IS TO BE EXAMINED WITH ENGINEER.



**NOTE:**  
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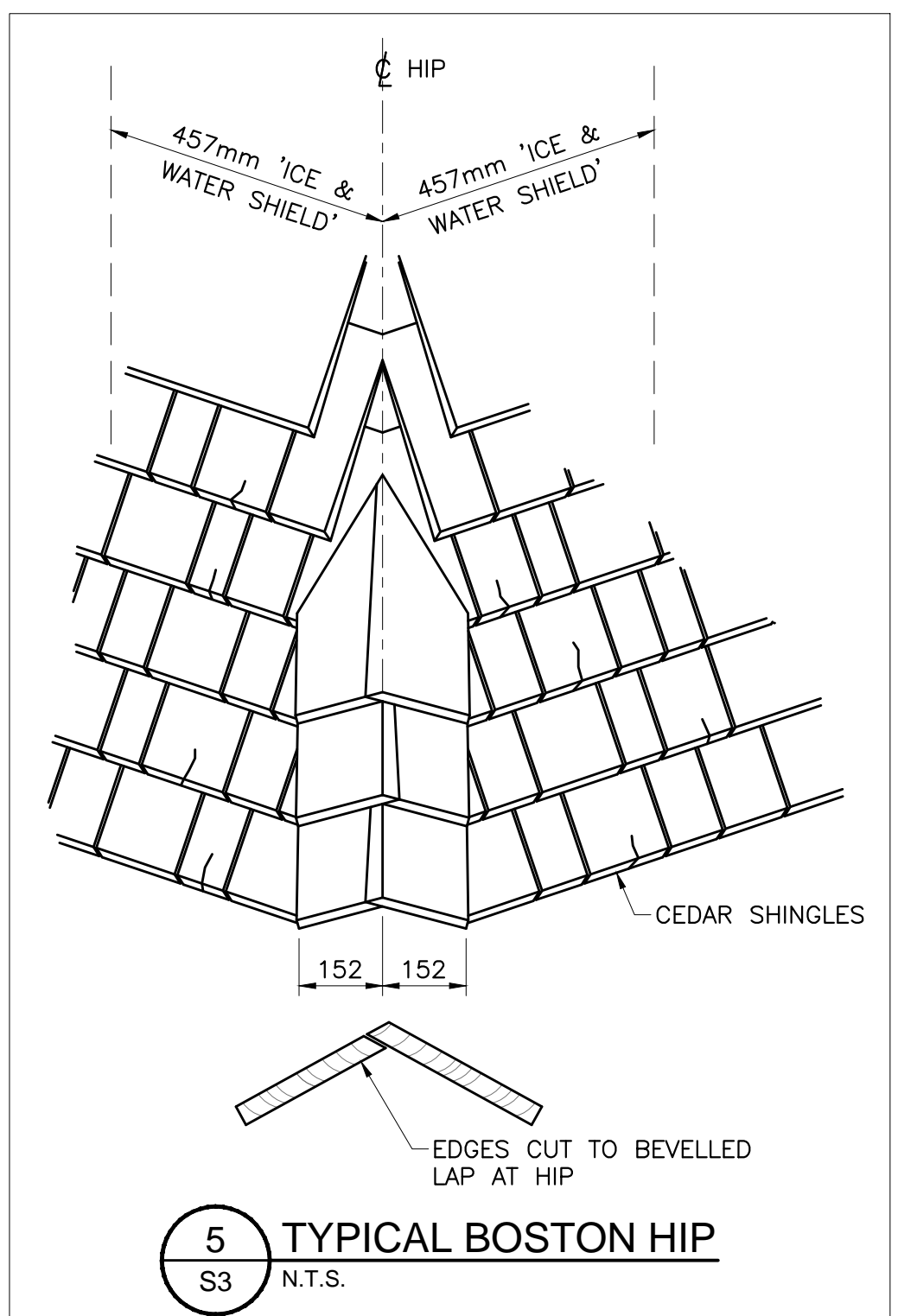
3 TYPICAL RIDGE VENTING  
S3 1:2.5



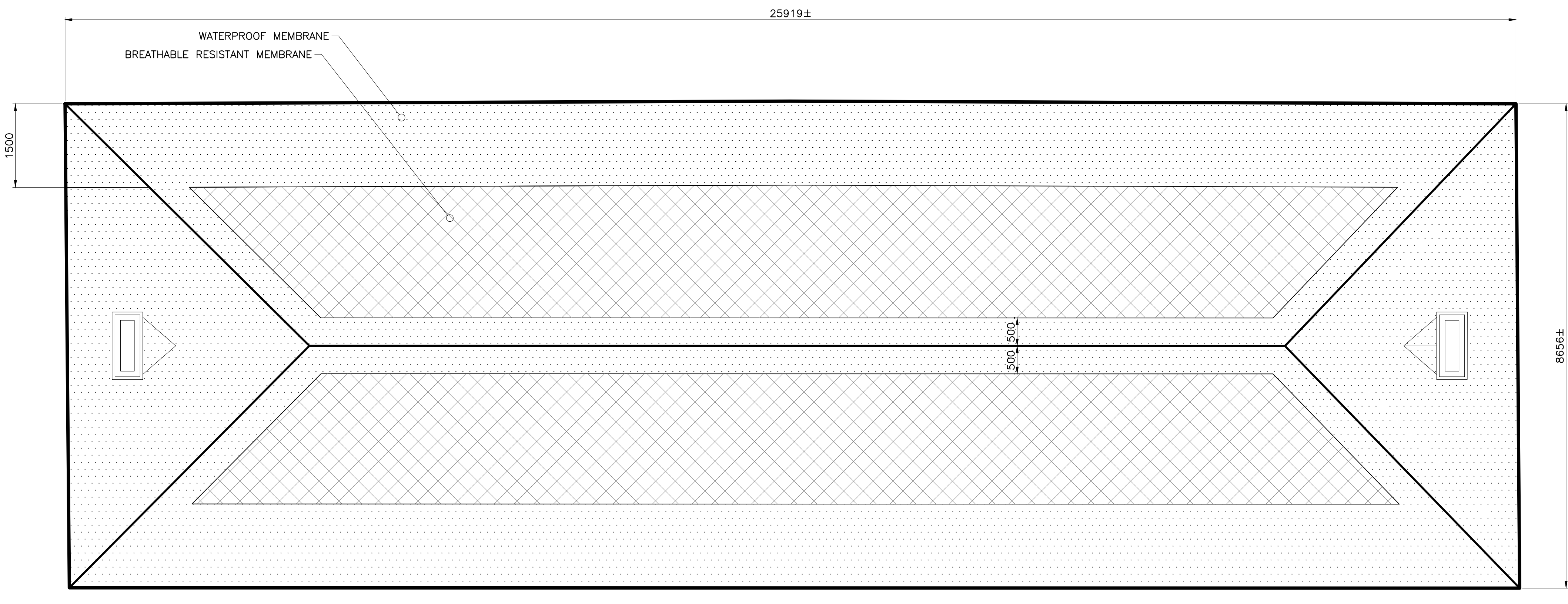
4 ROOF VENT LAYOUT  
S3 1:10



INTERIOR RAFTERS  
N.T.S.



5 TYPICAL BOSTON HIP  
S3 N.T.S.



Waterproof Membrane symbol  
Breathable Waterproof Membrane symbol

6 ROOF MEMBRANE LAYOUT  
S3 1:50

1	23/12/16	ISSUED FOR INTERNAL REVIEW	L.N.G.	D.A.H.
1	7/12/16	ISSUED FOR TENDER	L.N.G.	D.A.H.
No.	Date	Description	Drawn by	Approved
Revision / Révision				
A		A Detail number		A
B		B Location dwg. no.		B
C		C Drawing sheet no.		C



Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO

**CEDAR SHINGLE ROOF DETAILS**

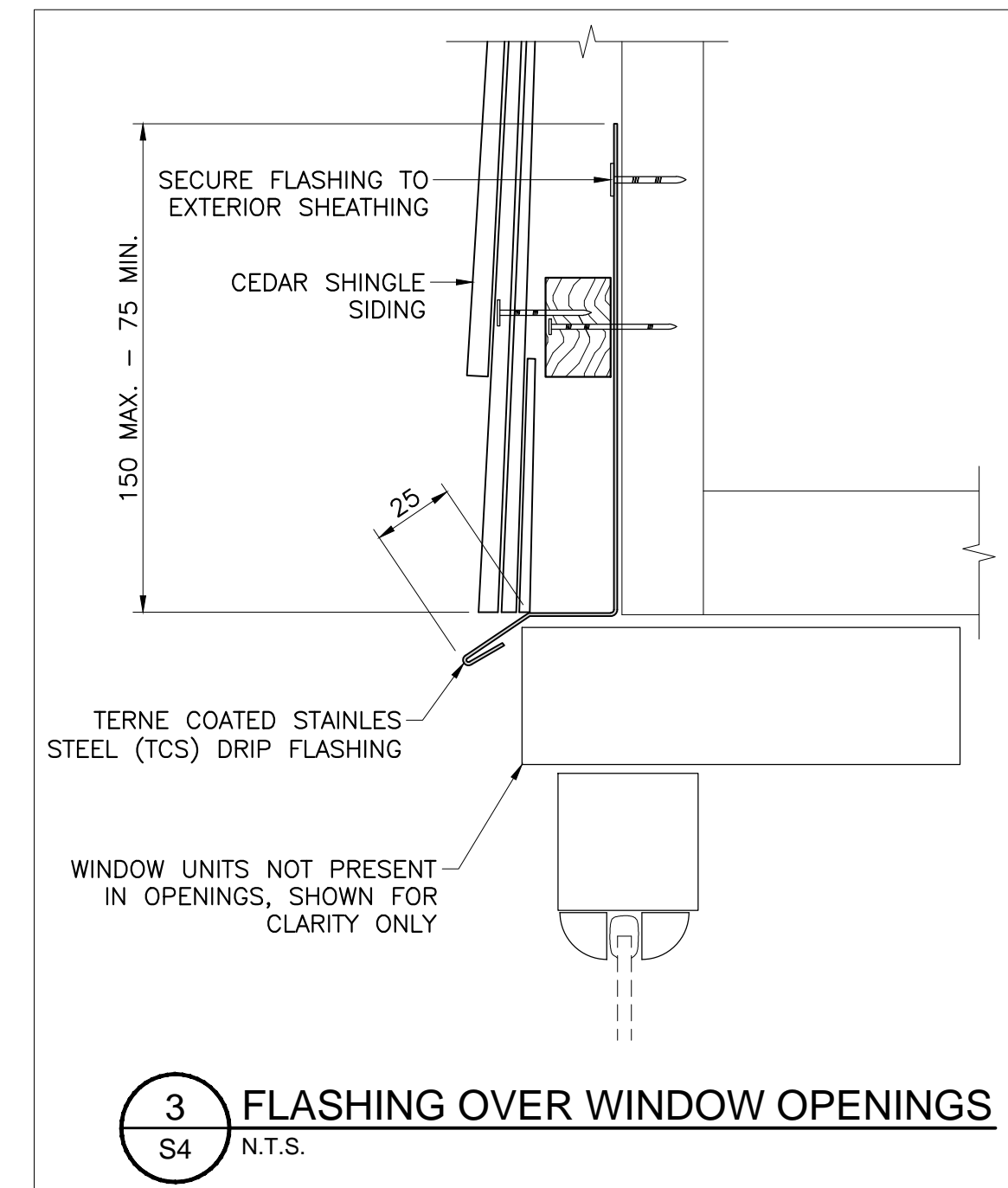
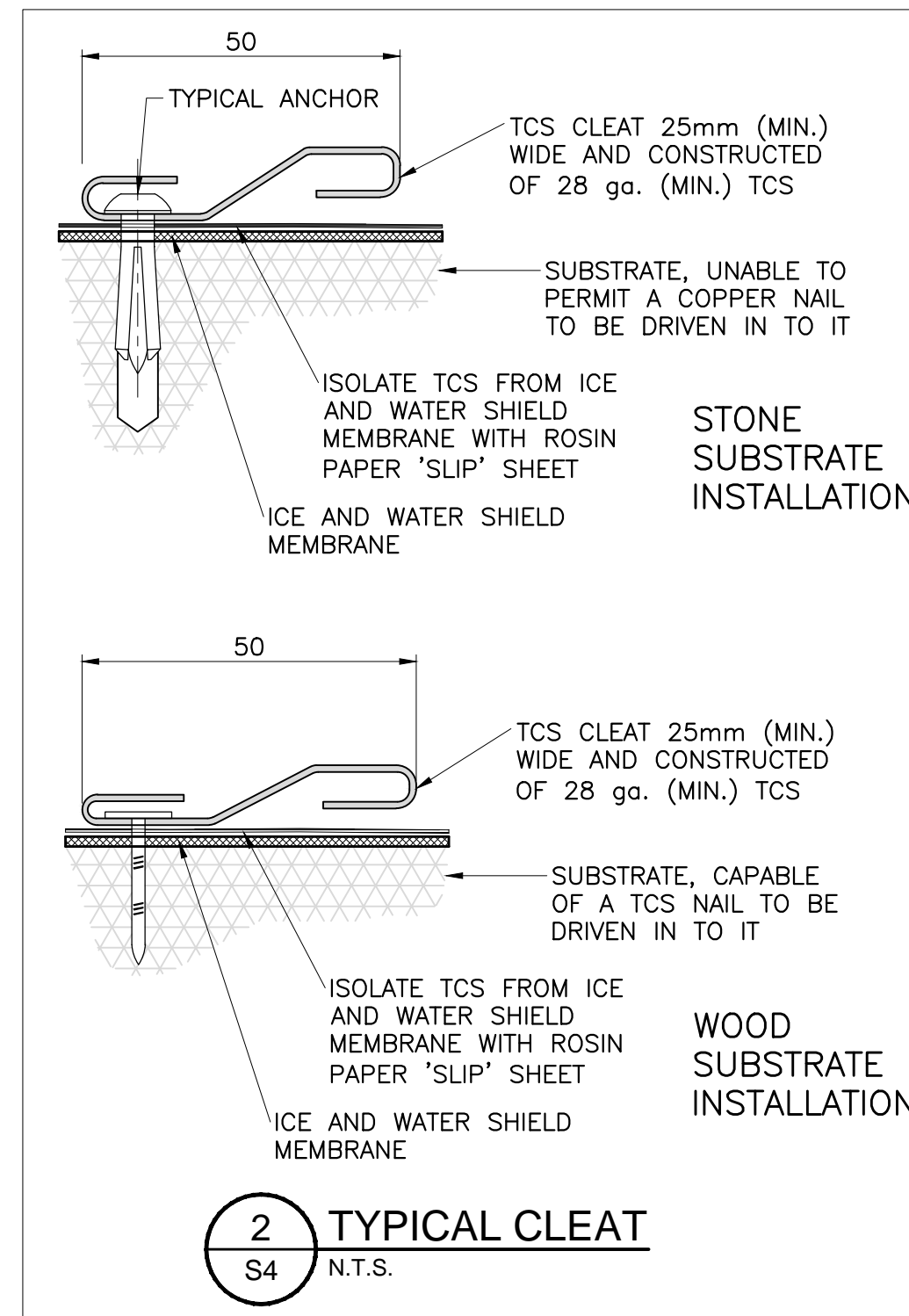
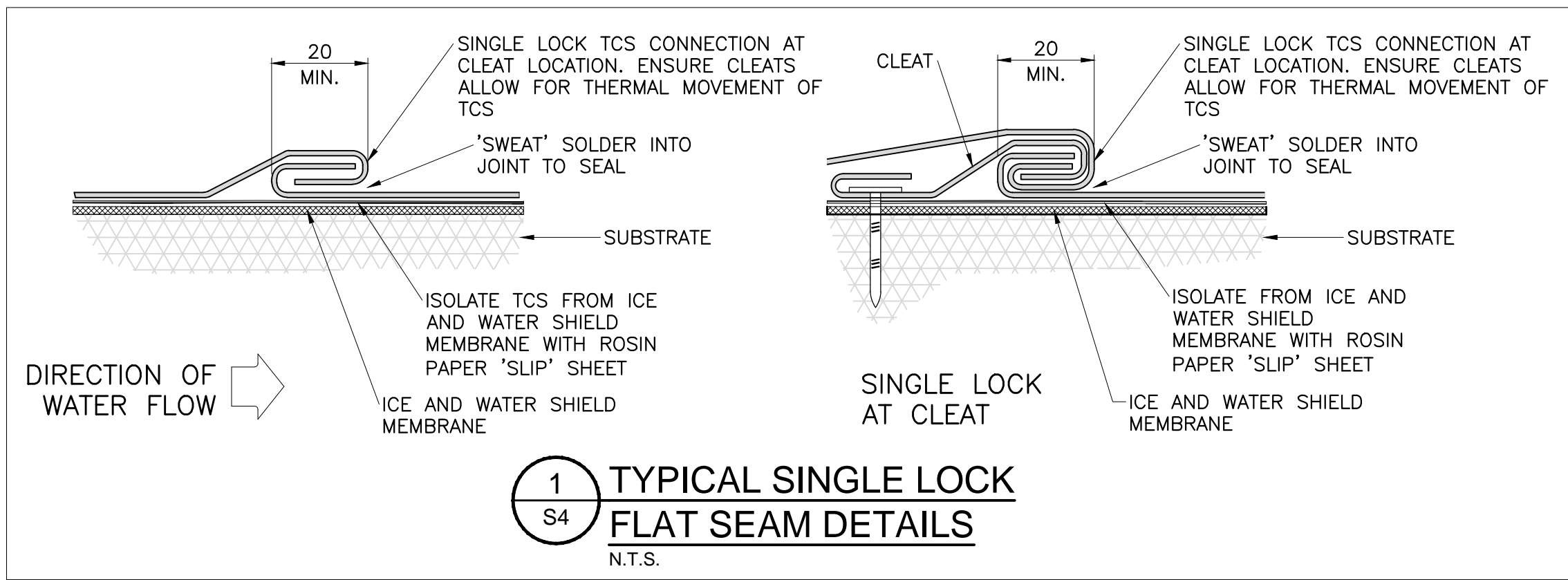
Scale / Echelle  
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L.N.GUILBEAU	13/03/17
Designed by / Conçu par	Date
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Checked by / Vérifié par	Date
Approved by / Approuvé par	Date

Project No./No. du projet	Client No./No du Client	Sheet No./Feuille No.
30224201		S3
Drawing Reference No./Numéro de Référence du Dessin		

TIME PLOTTED  
DATE PLOTTED  
PERSON PLOTTING  
SCALE OF PLOT  
VIEW PLOTTED  
DRAWING NAME





**NOTES FOR SHINGLES AND FLASHING WORK:**

STRIP ALL CEDAR SHINGLES AND EXISTING METAL CLADDING. REPLACE WITH NEW CEDAR ROOFING SHINGLES TO BE LAID ON BATTEN SUPPORTS. SUPPORTS INSTALLED OVER 6mm THK. SPACERS PLACED IN DIRECTION OF ROOF SLOPES. TYPAR OR 50 LB. ROOFING FELT TO BE PLACED OVER ALL AREAS EXCEPT WHERE MEMBRANE IS REQUIRED. ICE AND WATER SHIELD TYPE MEMBRANE SHALL BE INSTALLED OVER NEW PLYWOOD SHEATHING TO ACT AS PROTECTION, AROUND CHIMNEYS AND DORMERS WITH A MIN. OF 610MM AT EAVE AND EXTENDING 406MM DOWN FROM PERIMETER OF RIDGE. EXTEND UP BEHIND TERNE COATED STAINLESS STEEL (TCS) FLASHINGS AT ALL VERTICAL PROJECTIONS.

CEDAR SHINGLES TO BE NEW CERTIGRADE BLUE LABEL WESTERN RED CEDAR SHINGLES (PERFECTIONS).

ALL TERNE COATED STAINLESS STEEL (TCS) METAL IS TO BE PRIMED NEW TERNE COATED STAINLESS STEEL (TCS) METALWORK MATCHING EXISTING FEATURES SHALL B4 28 ga. AS DETAILED ON THIS DRAWING AND/OR AS DIRECTED BY THE ENGINEER. NEW TCS WORK IS TO BE PLACED OVER SLIP SHEET AND 'ICE AND WATER' SHIELD TYPE MEMBRANE.

CEDAR SHINGLES AND TCS WORK SHALL BE SET TO THE DIRECTION OF WATER FLOW.

INTEGRATE CEDAR SHINGLE ROOF TCS WORK WITH NEW LOW SLOPE CEDAR SHINGLE WORK OF THE SHED DORMER AS DETAILED AND/OR AS DIRECTED BY THE ENGINEER.

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IN GENERAL, RETAIN EXISTING CANTS, LEVELS, PITCHES AND METAL FLASHING FORM. EXPOSED SUBSTRATE IS TO BE EXAMINED WITH ENGINEER.



**NOTE:**  
THE EXISTENCE OF ANIMAL EXCREMENT WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTRACT WITH THE SUBSTANCES.

TIME PLOTTED

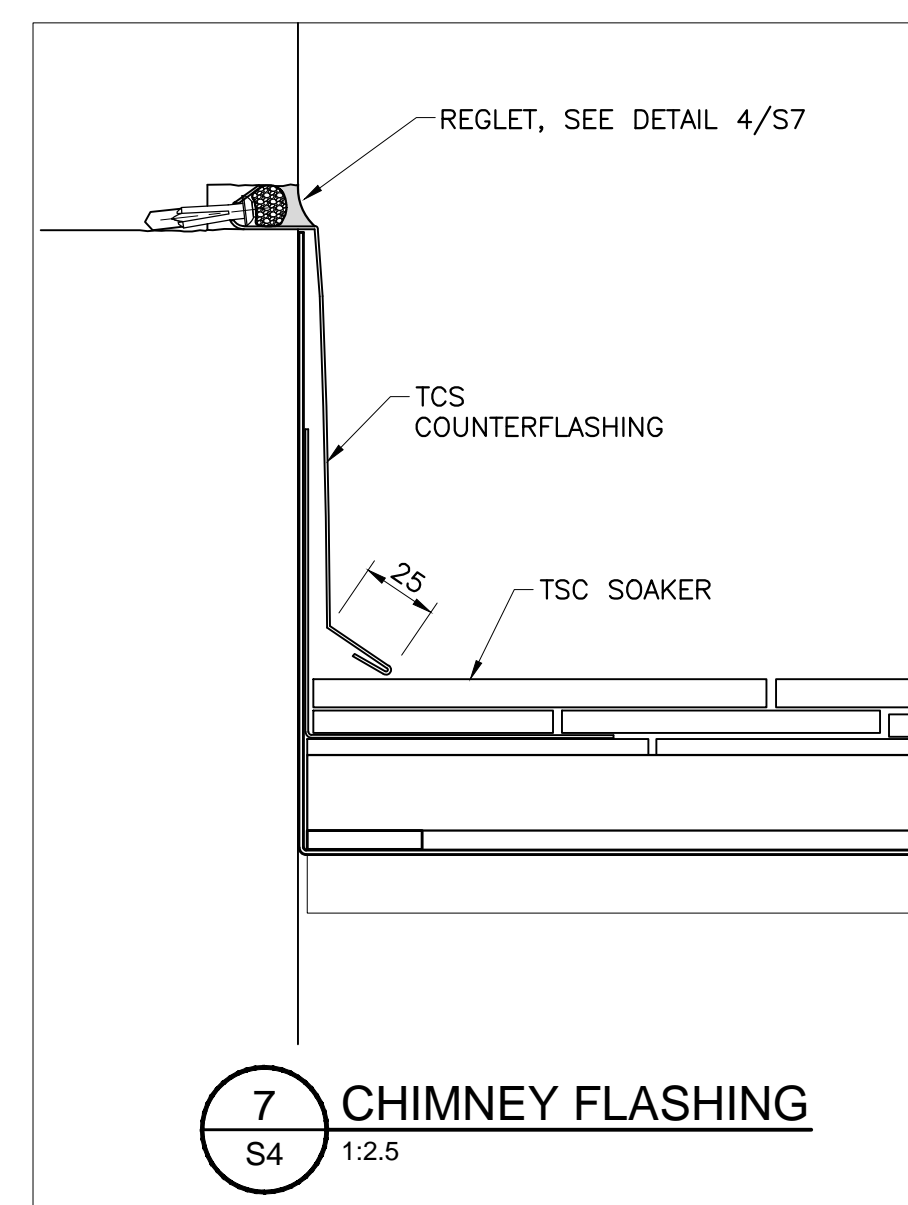
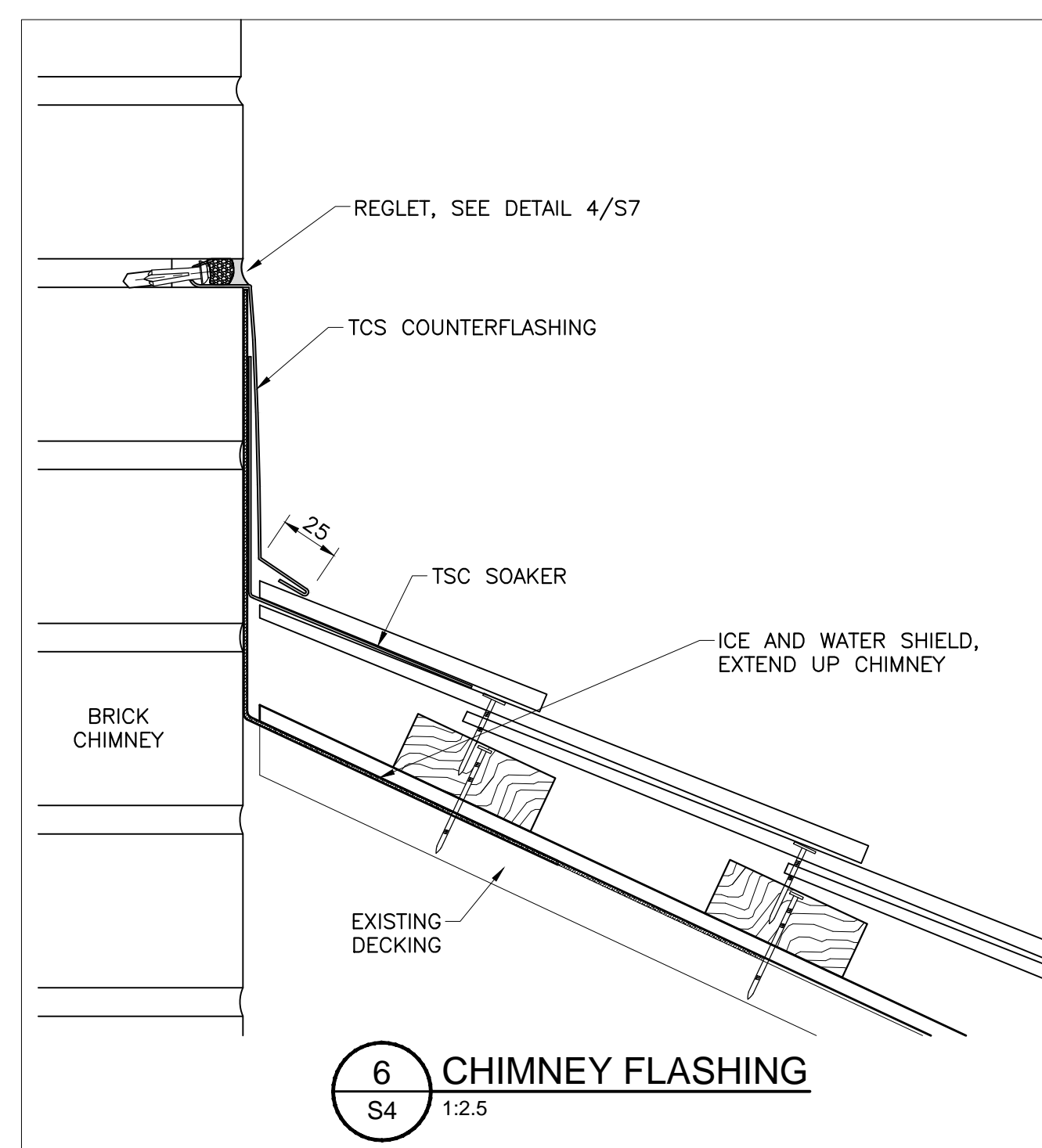
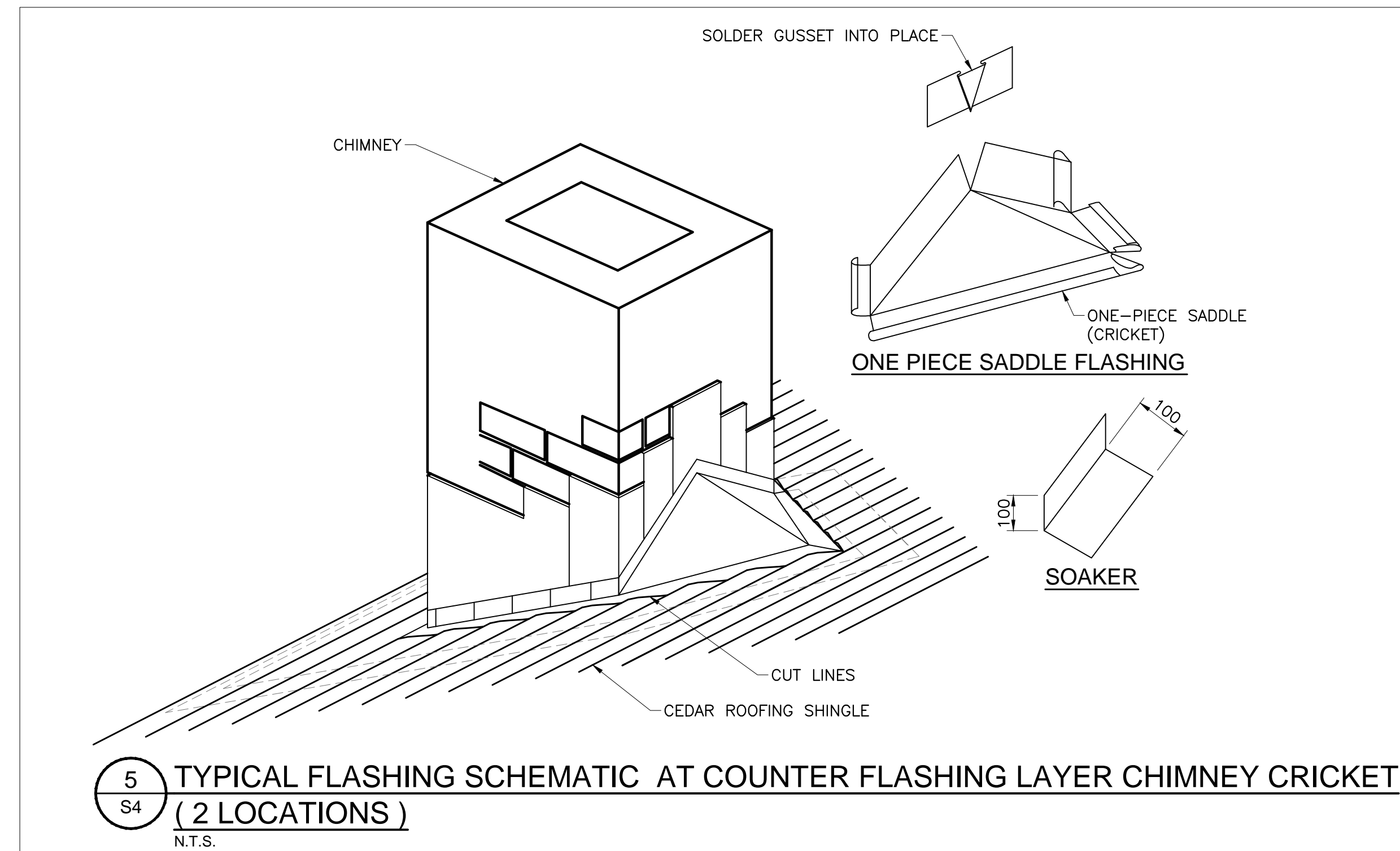
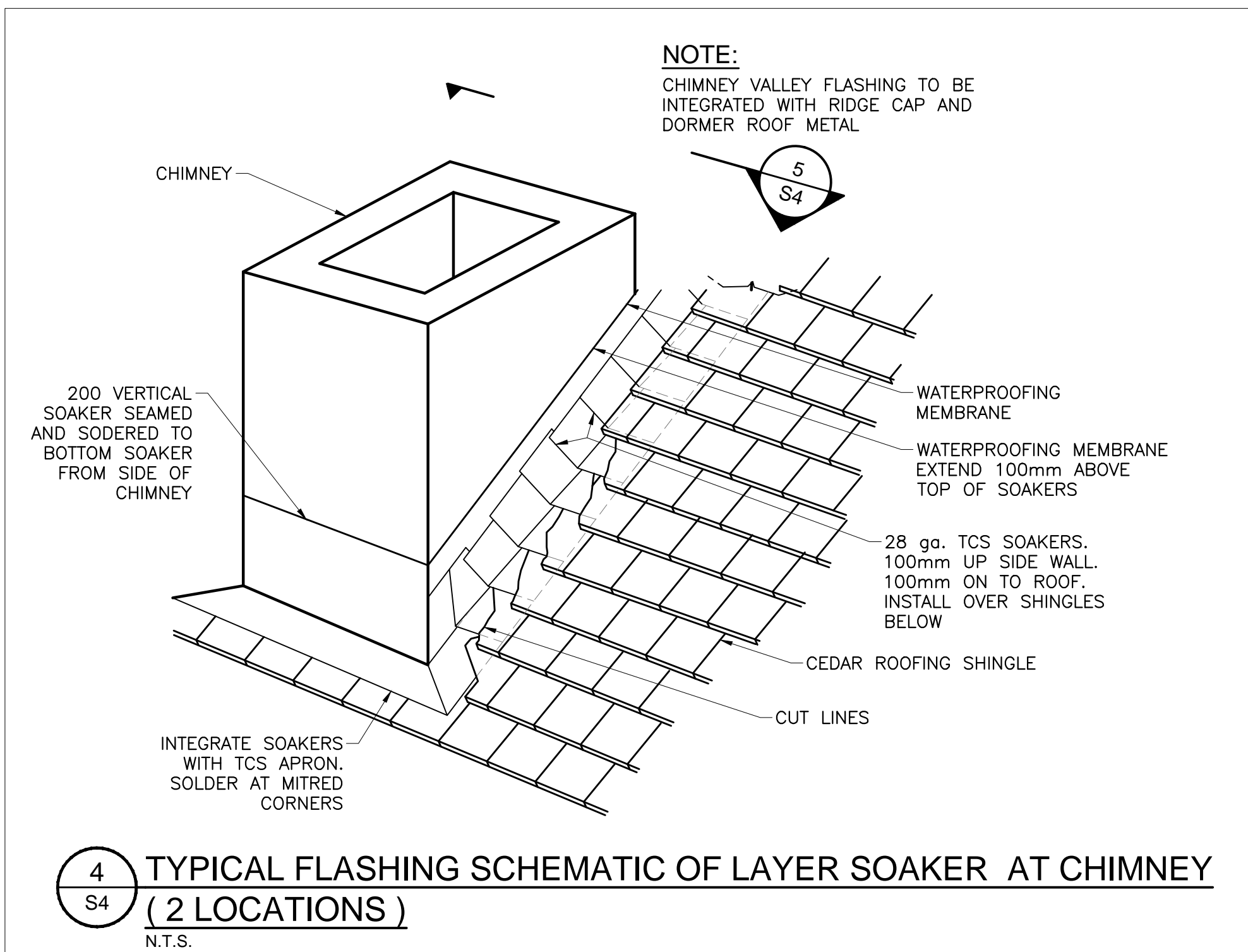
DATE PLOTTED

PERSON PLOTTING

SCALE OF PLOT

VIEW PLOTTED

DRAWING NAME



1	23/12/16	ISSUED FOR INTERNAL REVIEW	L.N.G.	D.A.H.
No.	Date	Description	Drawn by	Approved

Revision / Révision	
A	A Detail number No. du détail
B	B Location dwg. no. No. sur dessin
C	C Drawing sheet no. No. du dessin



Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

**NIAGARA-ON-THE-LAKE ONTARIO**

Drawing title / Titre du dessin

**FLASHING DETAILS AT CHIMNEY AND TOP OF WINDOW**

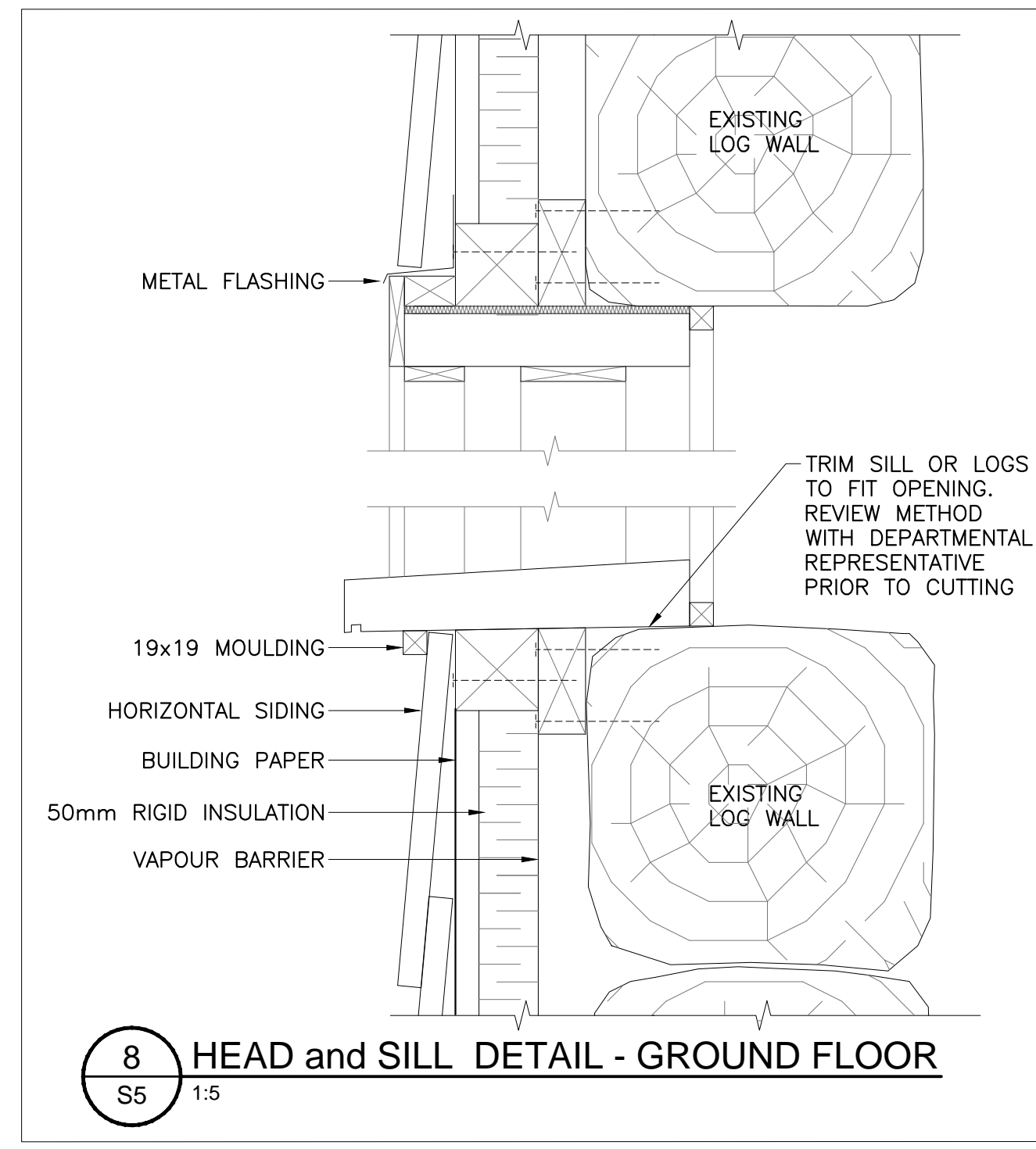
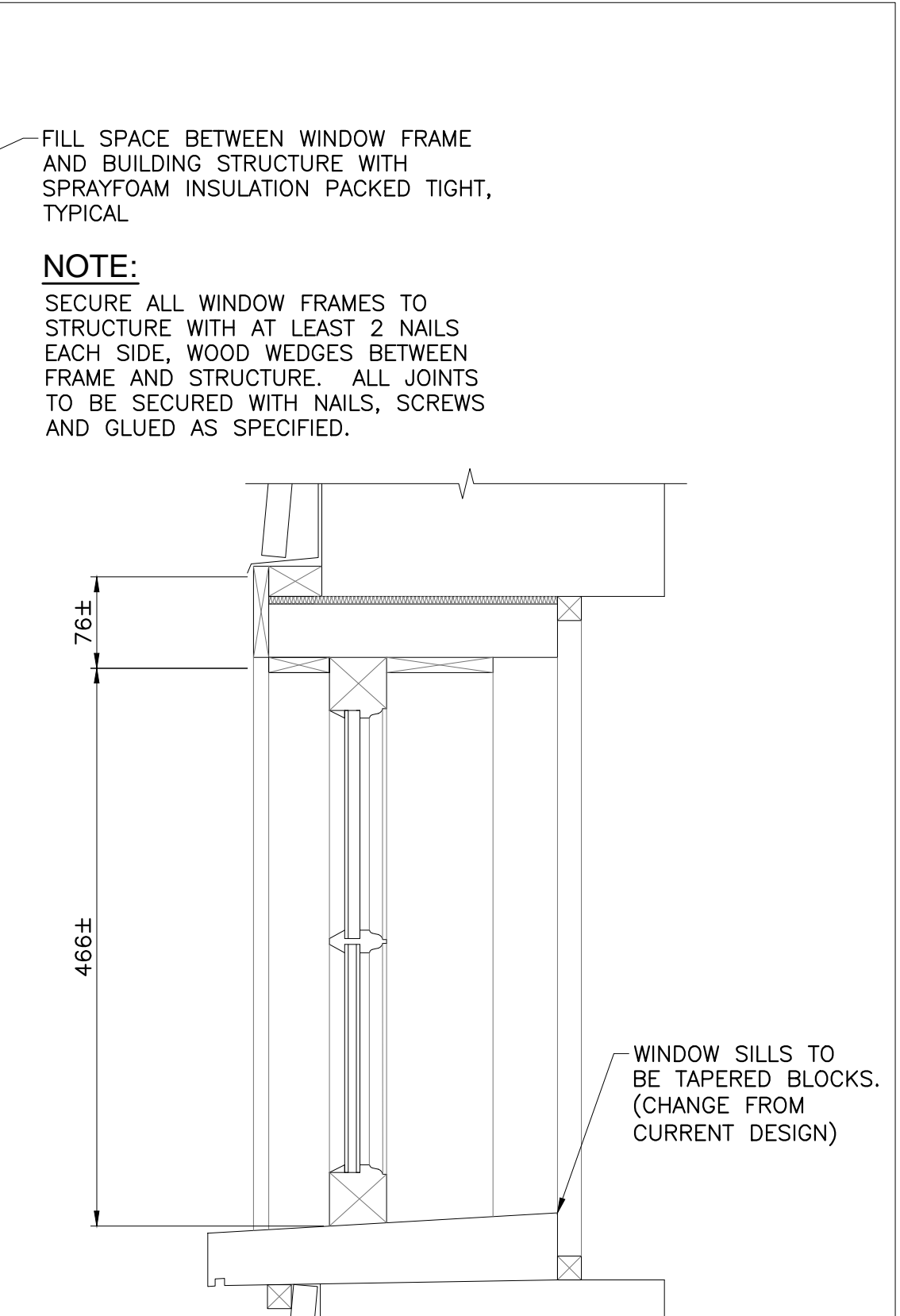
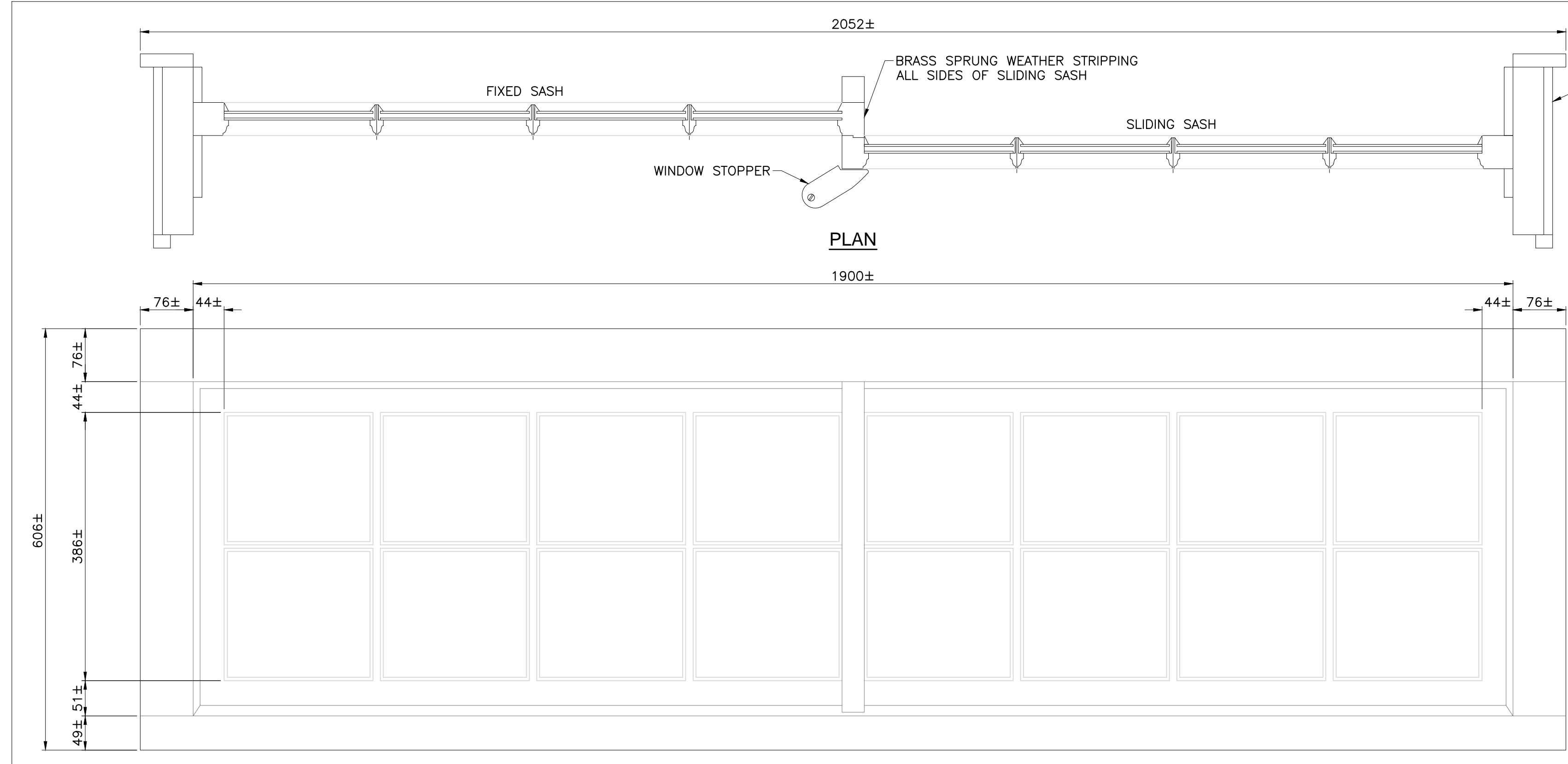
Scale / Echelle	AS SHOWN
Drawn by / Dessiné par	L.N.GUILBEAU
Designed by / Conçu par	D.A.HUETWICH
Checked by / Vérifié par	
Approved by / Approuvé par	

Project No./No. du projet	Client No./No du Client	Sheet No./Feuille No.
30224201		S4
Drawing Reference No./Numéro de Référence du Dessin		





**NOTE:**  
THE EXISTENCE OF ANIMAL EXCREMENT WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTACT WITH THE SUBSTANCES.

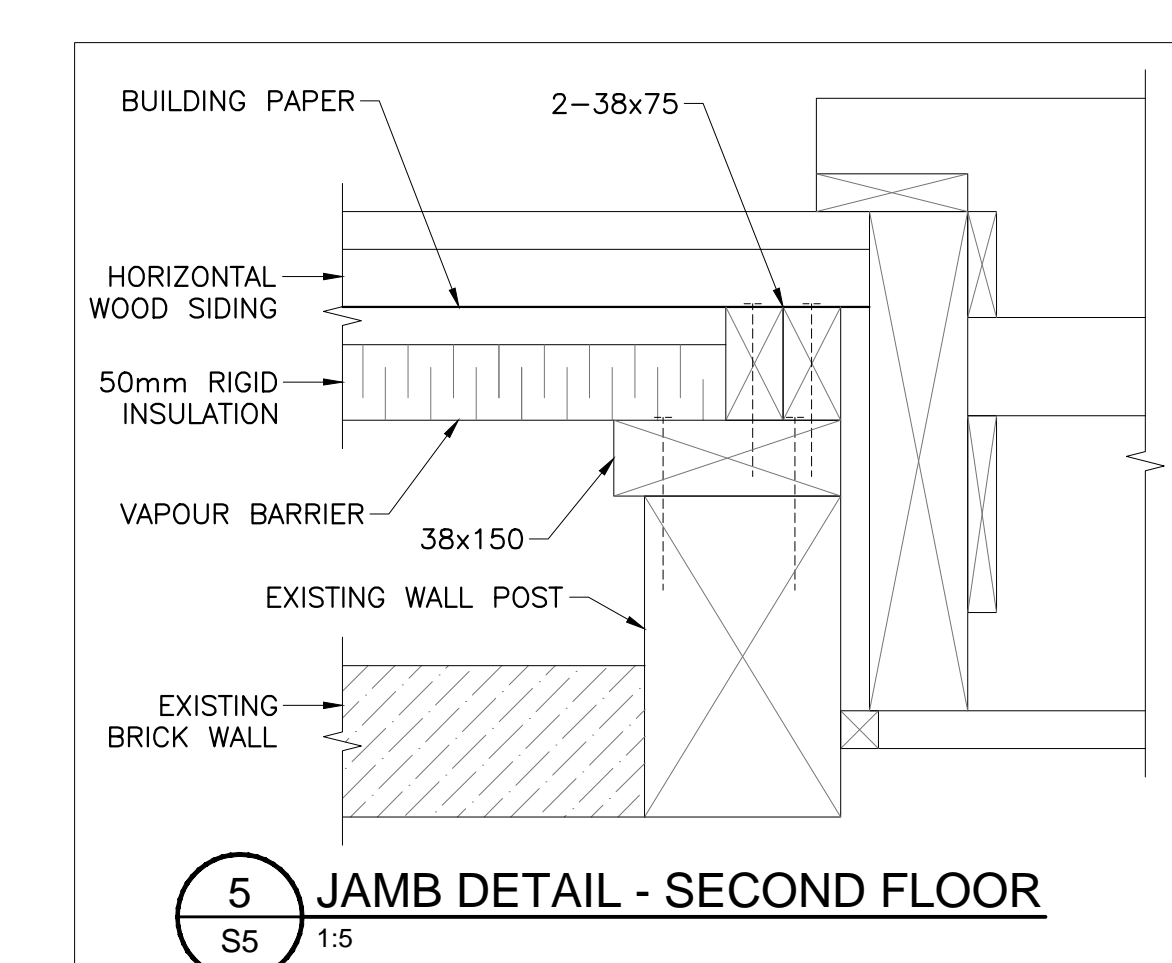
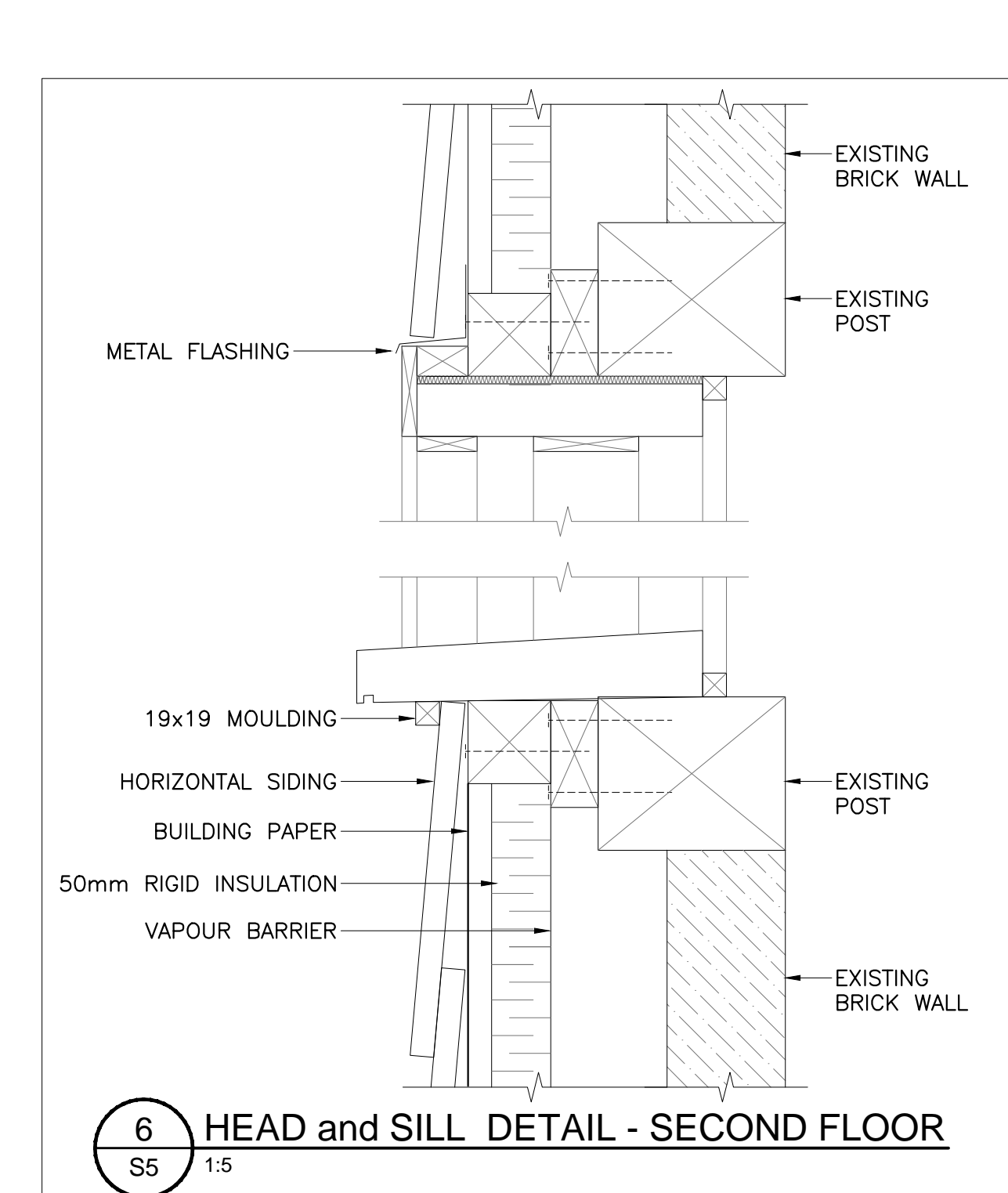
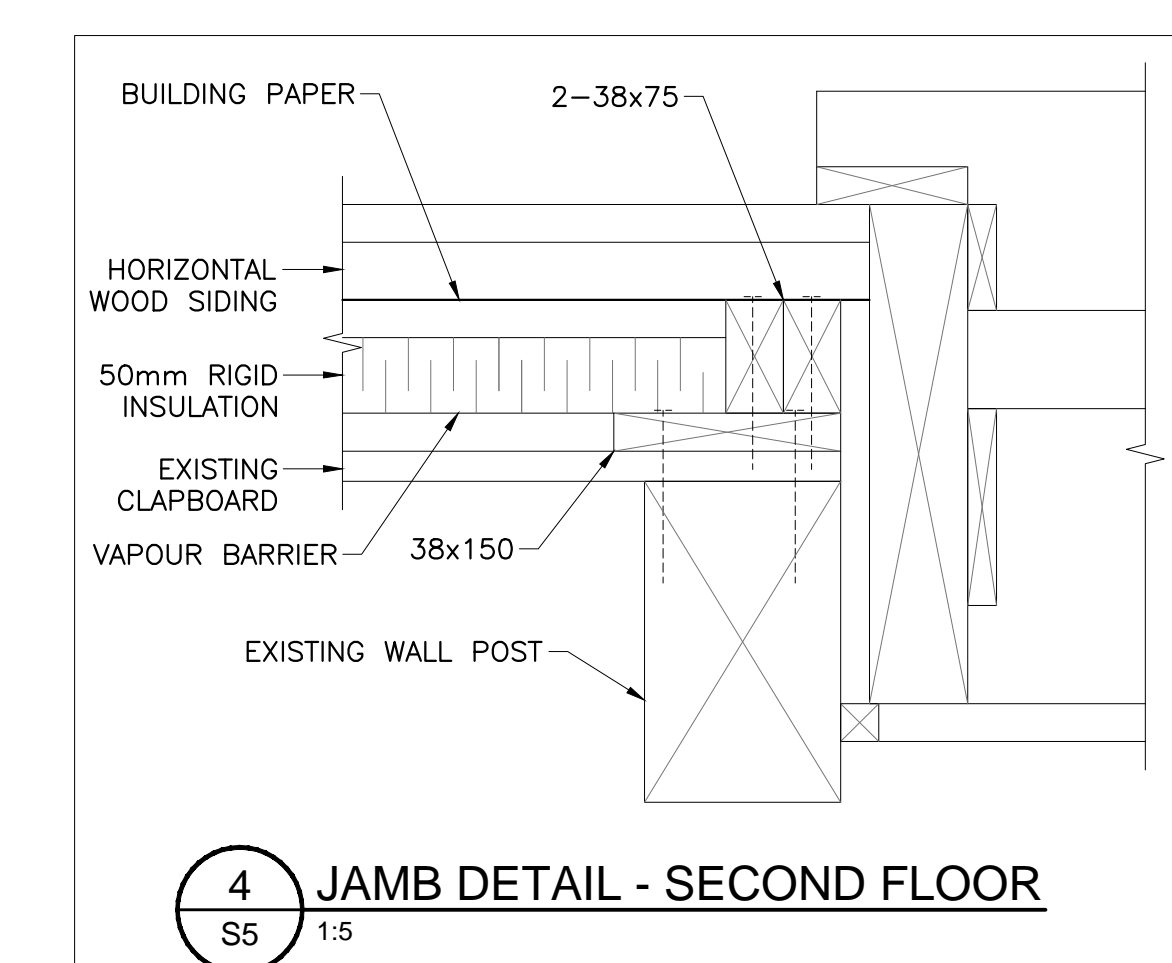
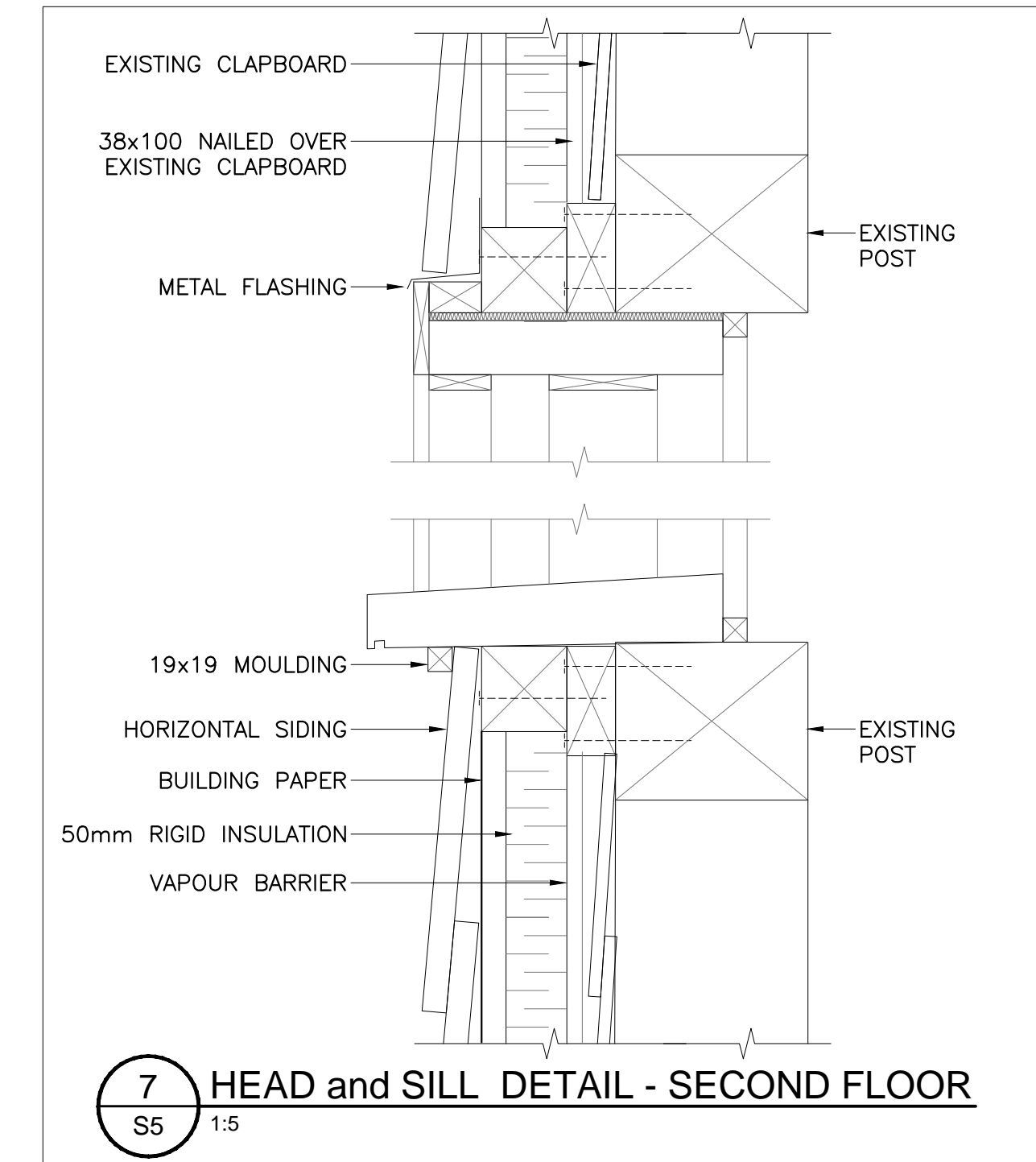
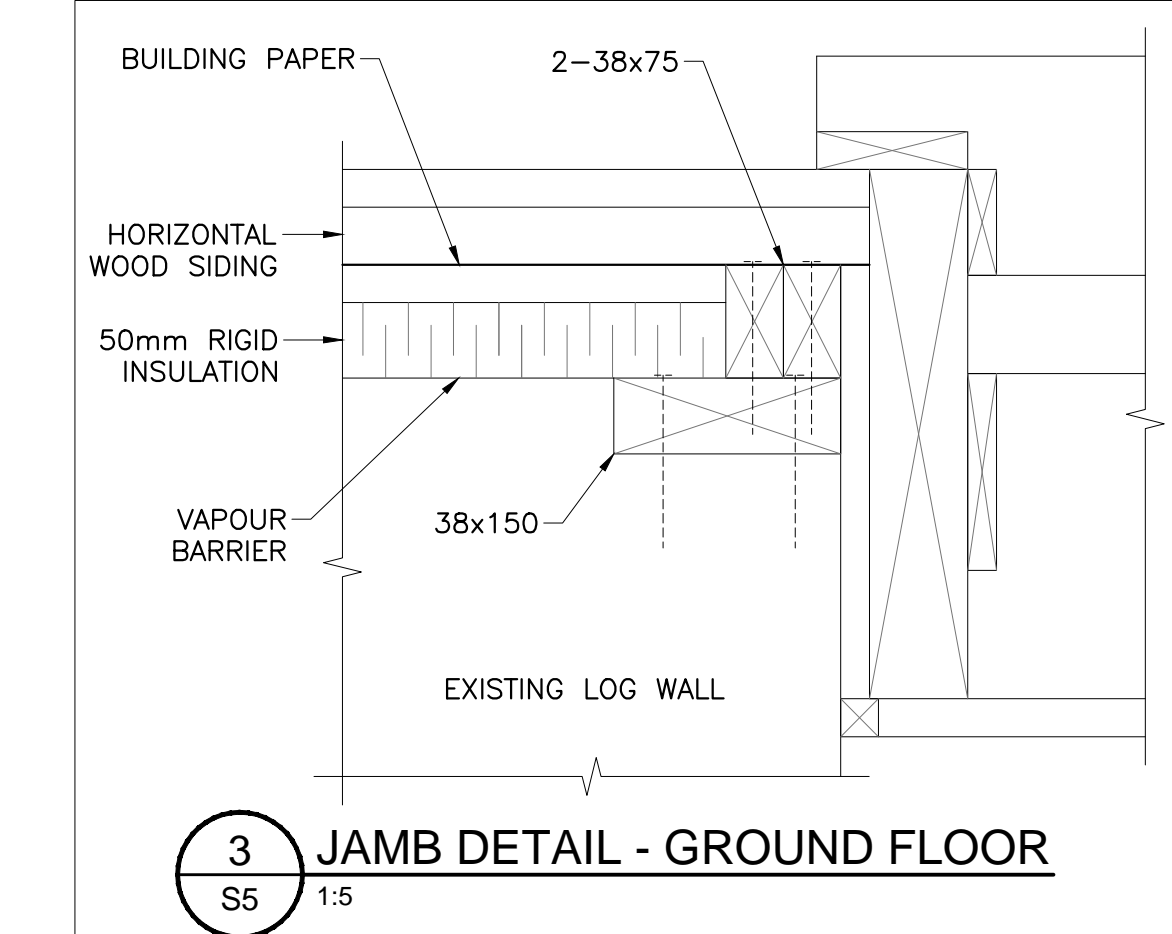
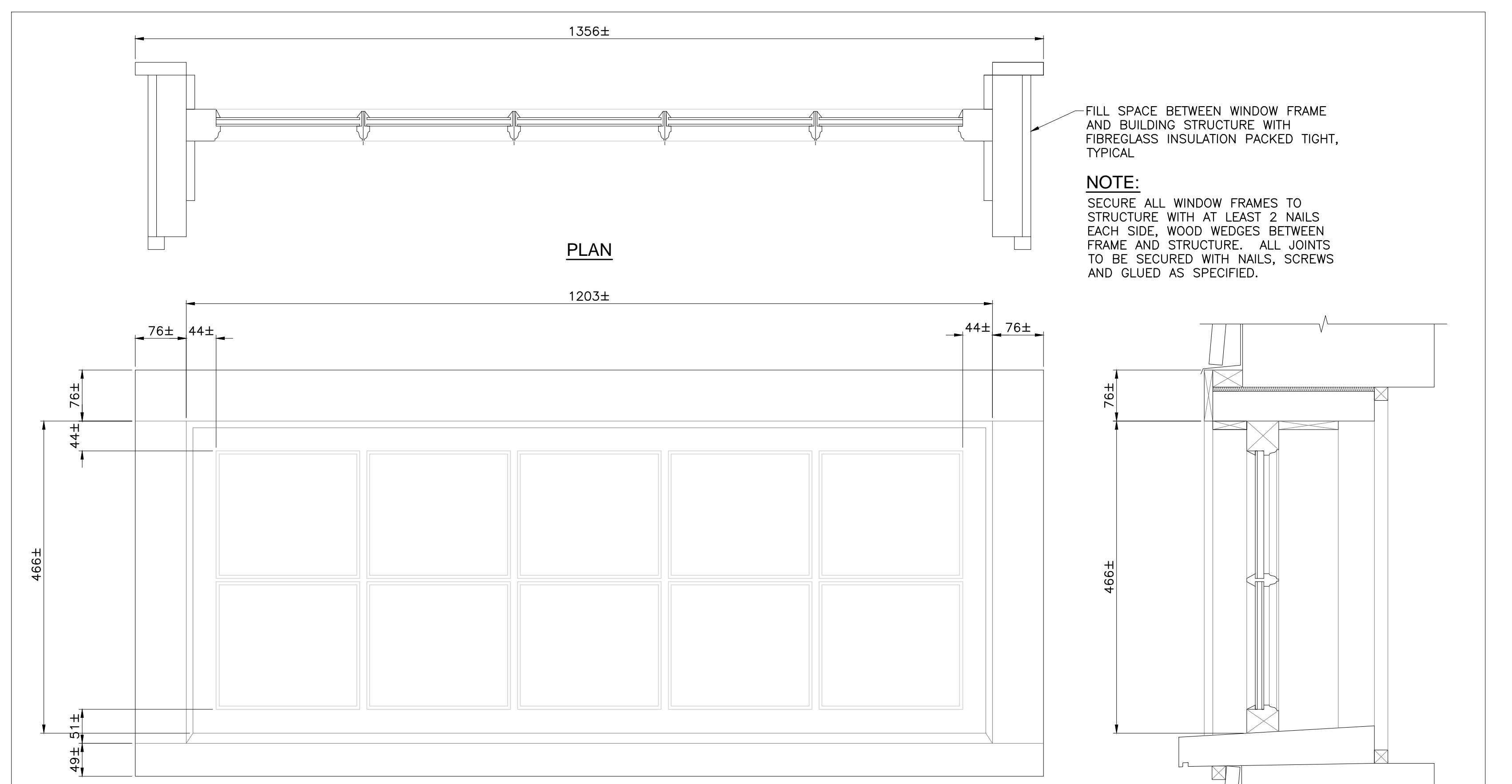


**NOTE:**  
THE INTENT IS TO REPLACE THE EXISTING WINDOWS WITH REPLICAS. AUTOCAD VERSIONS OF THESE DRAWINGS WILL BE AVAILABLE TO THE SUCCESSFUL CONTRACTOR TO ALLOW SHOP DRAWINGS TO BE PREPARED.

**NOTE:**  
BACK PRIME ALL NEW MILLED WOODWORK

**1 TYPICAL EXTERIOR SLIDING WINDOW DETAILS**  
S5 1:5

**8 HEAD and SILL DETAIL - GROUND FLOOR**  
S5 1:5



**NOTE:**  
BACK PRIME ALL NEW MILLED WOODWORK

**2 TYPICAL EXTERIOR FIXED WINDOW DETAILS (RM 2-03)**  
S5 1:5

**3 JAMB DETAIL - GROUND FLOOR**  
S5 1:5

**4 JAMB DETAIL - SECOND FLOOR**  
S5 1:5

**7 HEAD and SILL DETAIL - SECOND FLOOR**  
S5 1:5

**5 JAMB DETAIL - SECOND FLOOR**  
S5 1:5

**6 HEAD and SILL DETAIL - SECOND FLOOR**  
S5 1:5

1	23/12/16	ISSUED FOR INTERNAL REVIEW	L.N.G.	D.A.H.
No.	Date	Description	Drawn by Dessine par	Approved Approuvé
Revision / Révision				
A	A Detail number No. du détail		A	
B	B Location dwg. no. No. sur dessin		B C	
C	C Drawing sheet no. No. du dessin		C	



Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

**NIAGARA-ON-THE-LAKE ONTARIO**

**WINDOW DETAILS**

Scale / Echelle  
AS SHOWN

Drawn by / Dessiné par	Date
L.N.GUILBEAU	13/03/17
Designed by / Conçu par	Date
D.A.HUTCWITH	
Checked by / Vérifié par	Date
Approved by / Approuvé par	Date

Project No./No. du projet  
30224201

Client No./No du Client

Sheet No./  
Feuille No.  
**S5**

Drawing Reference No./Numéro de Référence du Dessin

DRAWING NAME: VIEW PLOTTED, SCALE OF PLOT, PERSON PLOTTING, DATE PLOTTED, TIME PLOTTED





**NOTE:**  
THE EXISTENCE OF ANIMAL EXCREMENT WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTACT WITH THE SUBSTANCES.

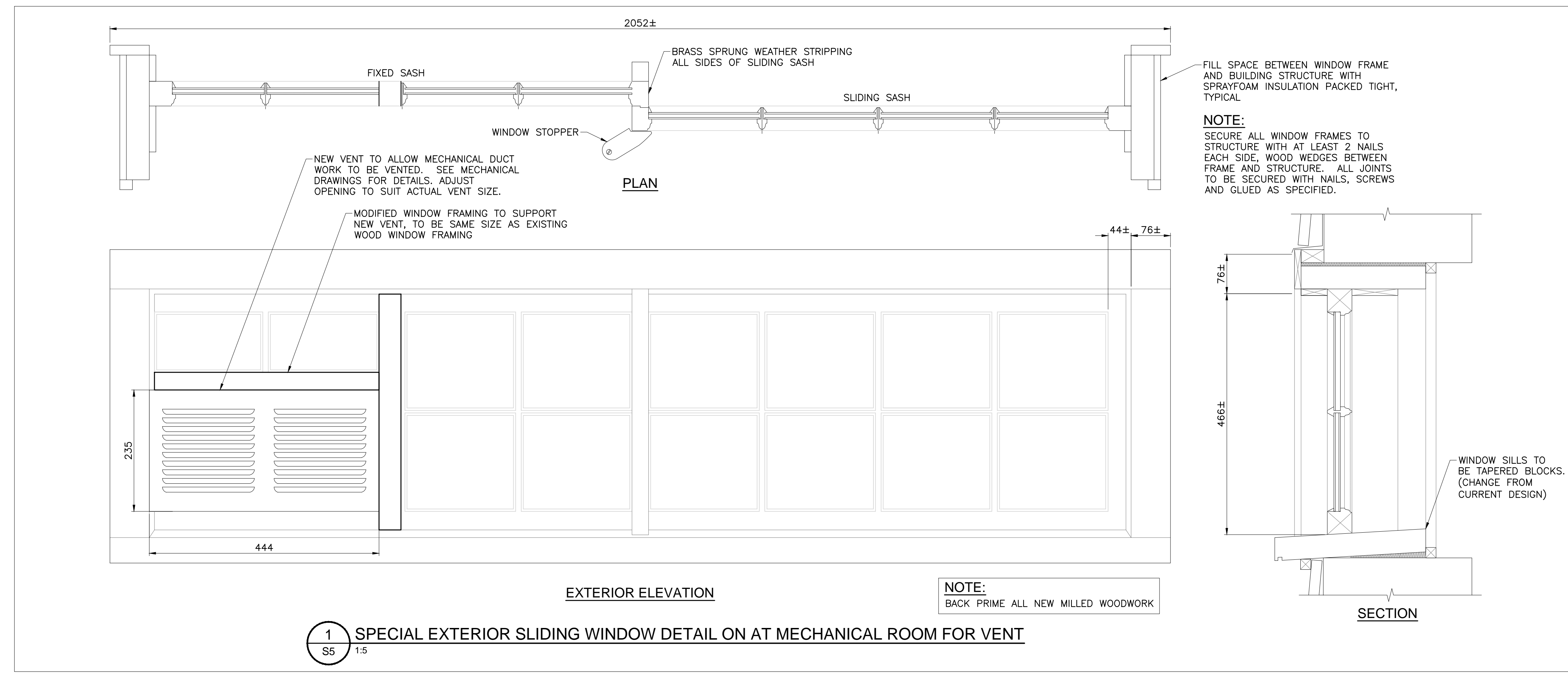
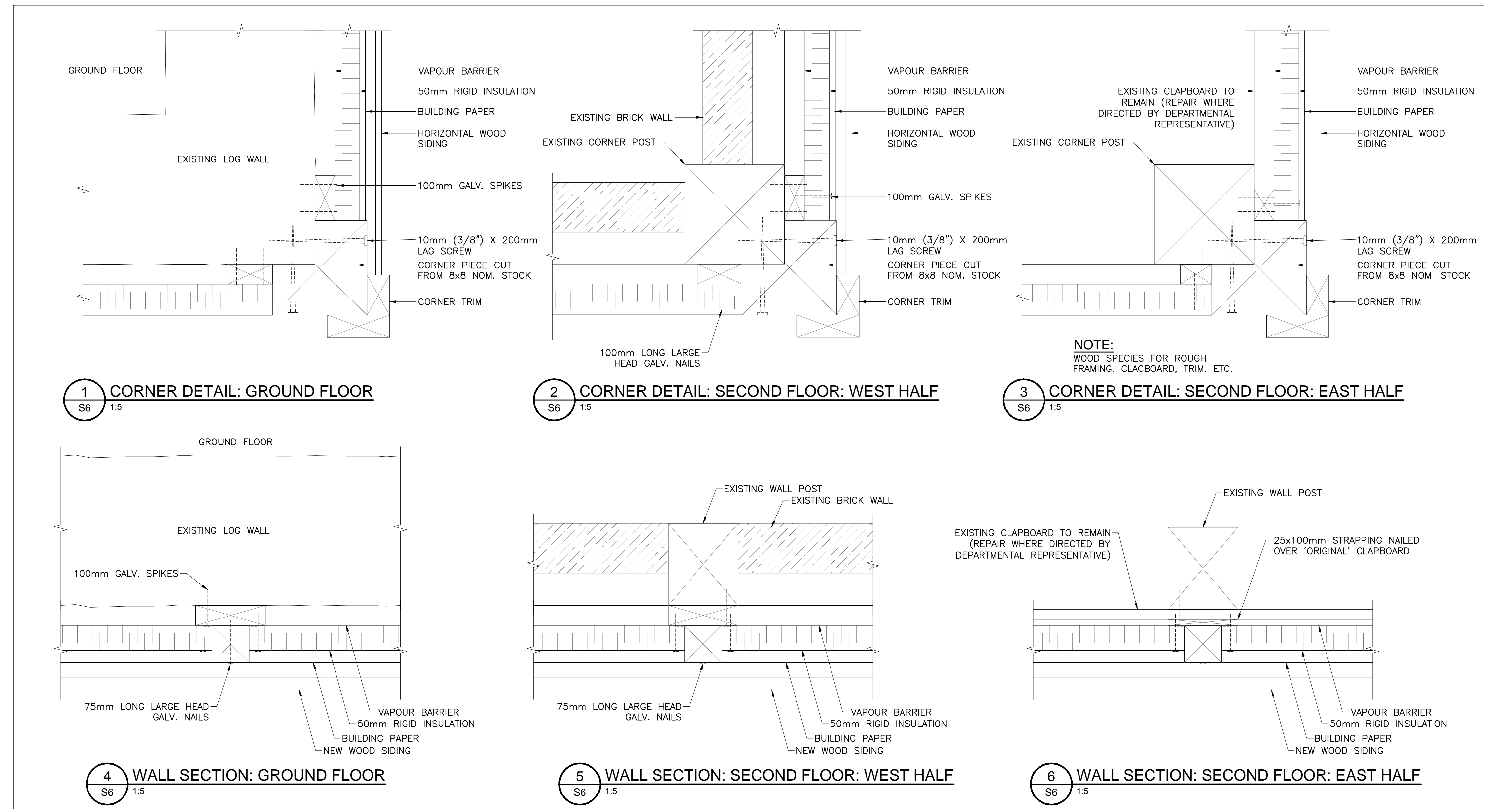
**NOTES FOR SHINGLE AND CLADDING WORK:**

THERE ARE TWO LAYERS OF SIDING IN SOME OR MOST SECTIONS OF THE BUILDING. IT IS THE INTENT TO REMOVE AND REPLACE ALL SIDING INSULATION, VAPOR BARRIERS ETC AND STRAPPING BACK TO THE EARLIER SIDING OR THE PREVIOUS LOCATION OF THE EARLIER SIDING DEPENDING ON IF THE EARLIER SIDING HAS PREVIOUSLY BEEN REMOVED.

THE NEW CONSTRUCTION WILL ROUGHLY DUPLICATE THE PREVIOUS INSTALLATION WITH CHANGES TO MATERIAL FINISHING AND WATER TIGHTNESS AND DETAILING ESPECIALLY AROUND THE WINDOWS.

AS MATERIAL IS REMOVED THE CONDITION OF THE WALL ASSEMBLY TO REMAIN (THE ORIGINAL LOG CONSTRUCTION, INTERIOR EARLIER SECOND LAYER OF SIDING AND THE WOOD FRAME) WILL BE ASSESSED AND IF REQUIRED DIRECTION WILL BE PROVIDED AS TO NECESSARY REPAIRS OR ADDITIONAL REMOVALS. IT MAY BE POSSIBLE TO ASSESS SOME OF THE EXISTING STRAPPING OR BLOCKING TO SEE IF THEY CAN BE SALVAGED HOWEVER THE ROT AT THE WINDOW AND THE NEED TO REMOVE AND CHANGE ALL INSULATION MAY REQUIRE THE FULL REPLACEMENT OF BLOCKING AS REQUIRED IN THE CONTRACT.

IF ANY ARTIFACTS ARE DISCOVERED WITHIN THE WALL CAVITIES THEY WILL BE ASSESSED BY THE DEPARTMENTAL REPRESENTATIVE AND



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Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

**NIAGARA-ON-THE-LAKE ONTARIO**

**WALL DETAILS AND WINDOW AT MECHANICAL ROOM**

Scale / Echelle	
AS SHOWN	
Drawn by / Dessiné par	Date
L.N.GUILBEAU	13/03/17
Designed by / Conçu par	Date
D.A.HUTCWITH	13/03/17
Checked by / Vérifié par	Date
Approved by / Approuvé par	Date

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		S6
Drawing Reference No./Numéro de Référence du Dessin		

TIME PLOTTED

DATE PLOTTED

PERSON PLOTTING

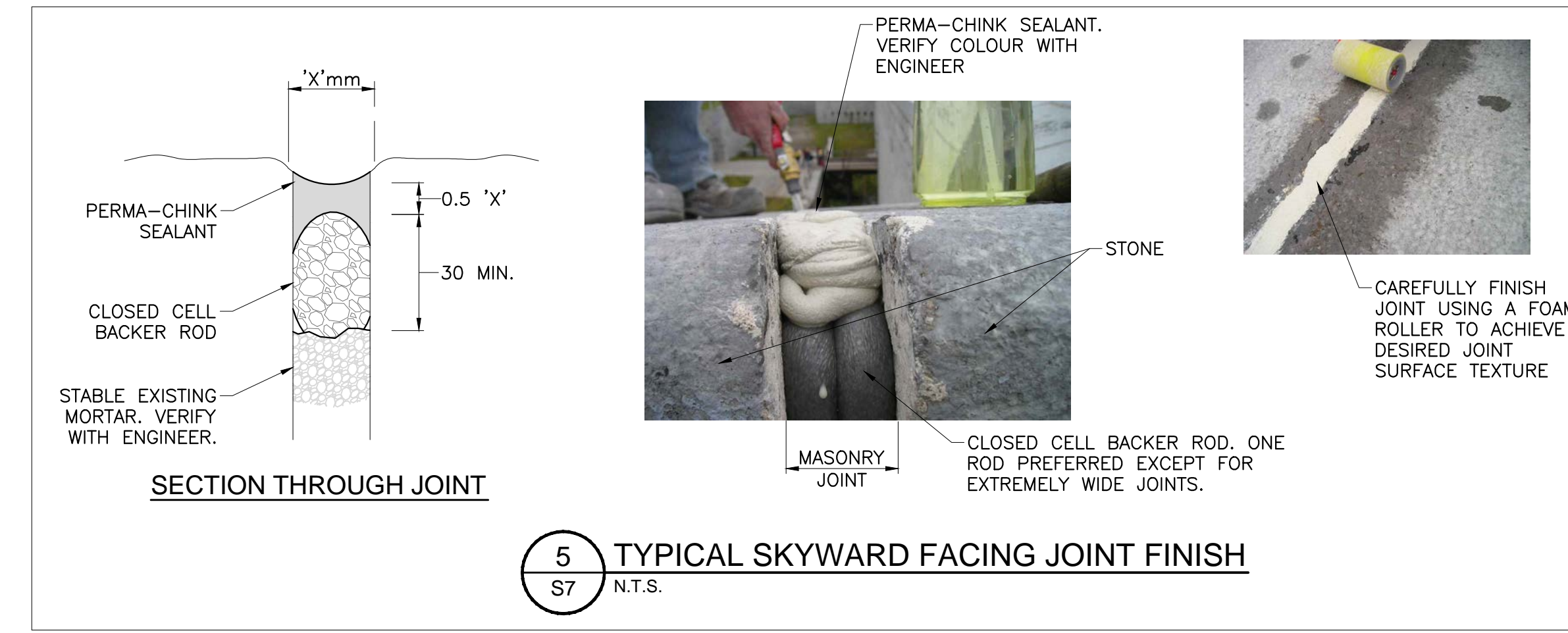
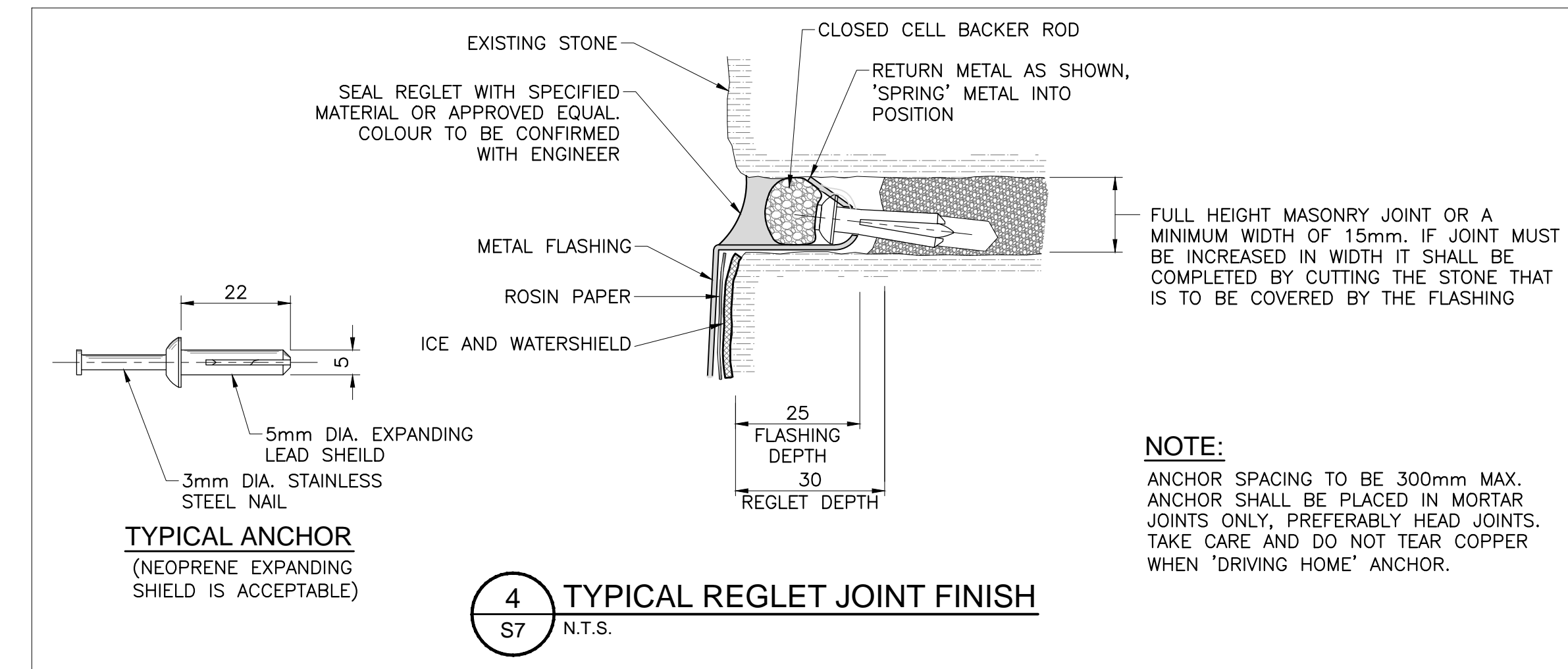
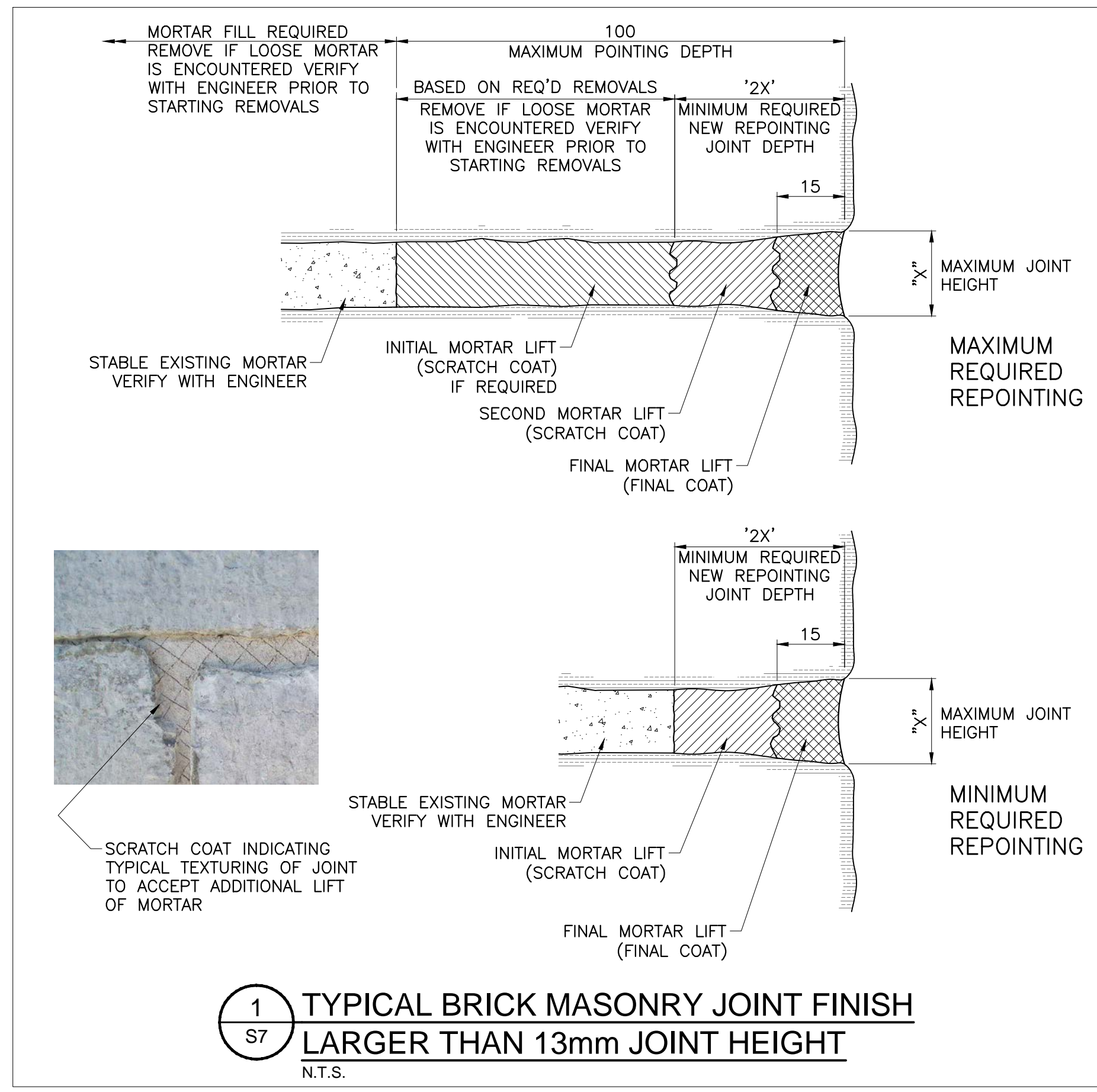
SCALE OF PLOT

VIEW PLOTTED

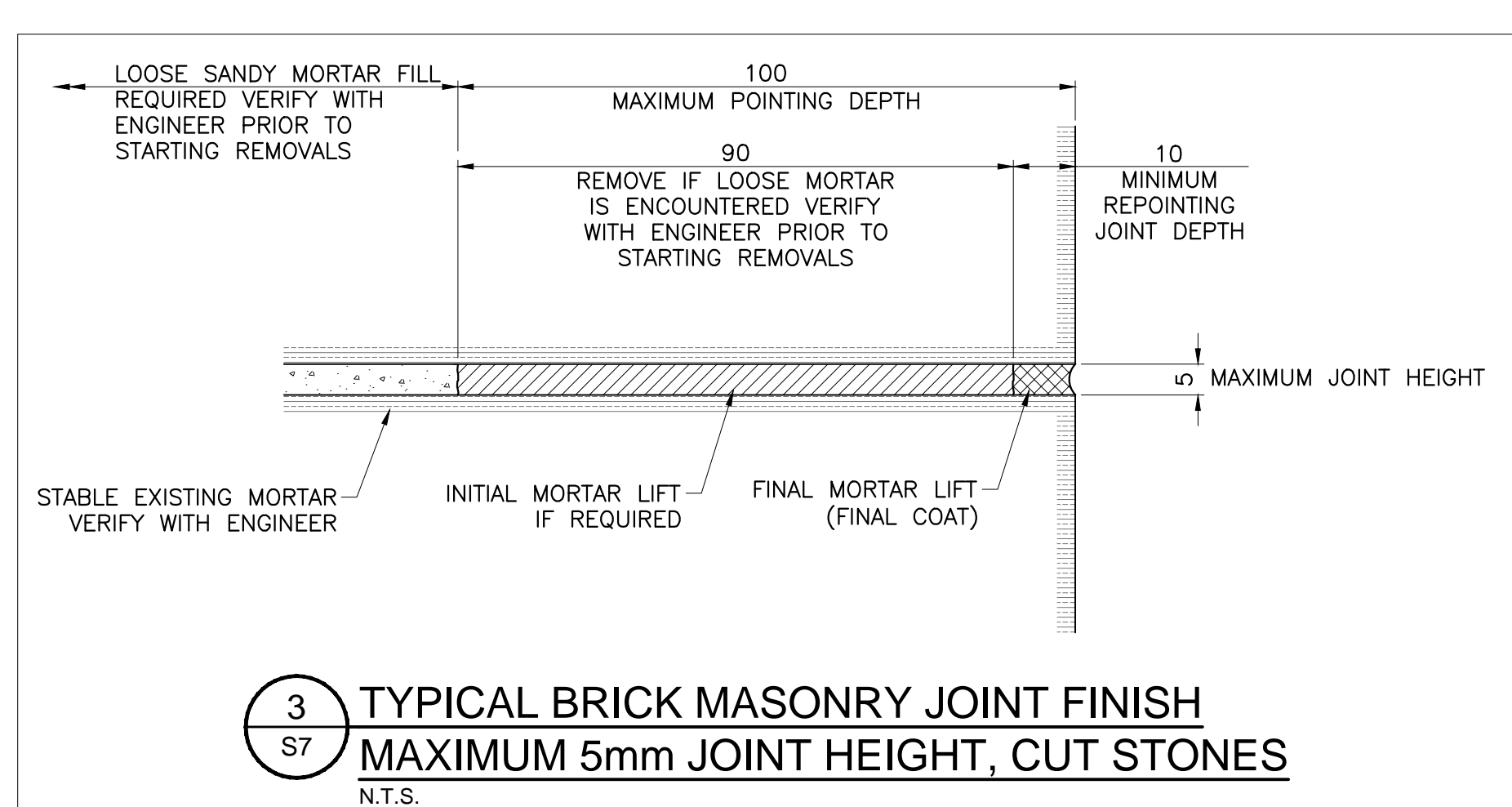
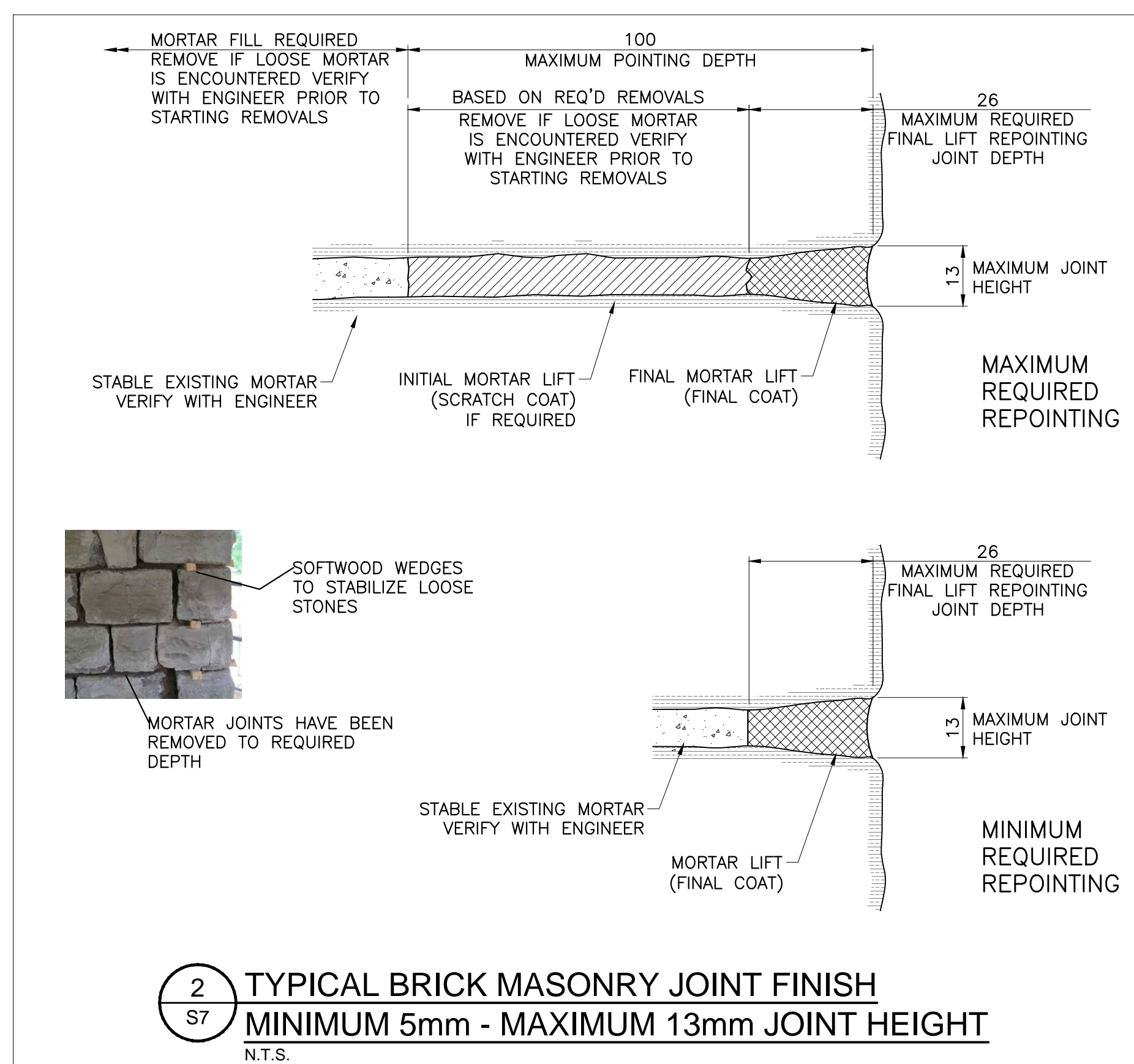
DRAWING NAME



**NOTE:**  
THE EXISTENCE OF ANIMAL EXCRETION WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTACT WITH THE SUBSTANCES.



**NOTE:**  
BOTH CHIMNEYS ARE TO BE REPOINTED.



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No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
Revision / Révision				
A	A Detail number No. du détail		A	
C	B Location dwg. no. No. sur dessin		B C	
	C Drawing sheet no. No. du dessin			



Project title / Titre du projet  
**REHABILITATION OF  
MEN'S BARRACKS BUILDING  
BUTLER'S BARRACKS**

**NIAGARA-ON-THE-LAKE**      **ONTARIO**

Drawing title / Titre du dessin  
**MASONRY JOINT DETAILS**

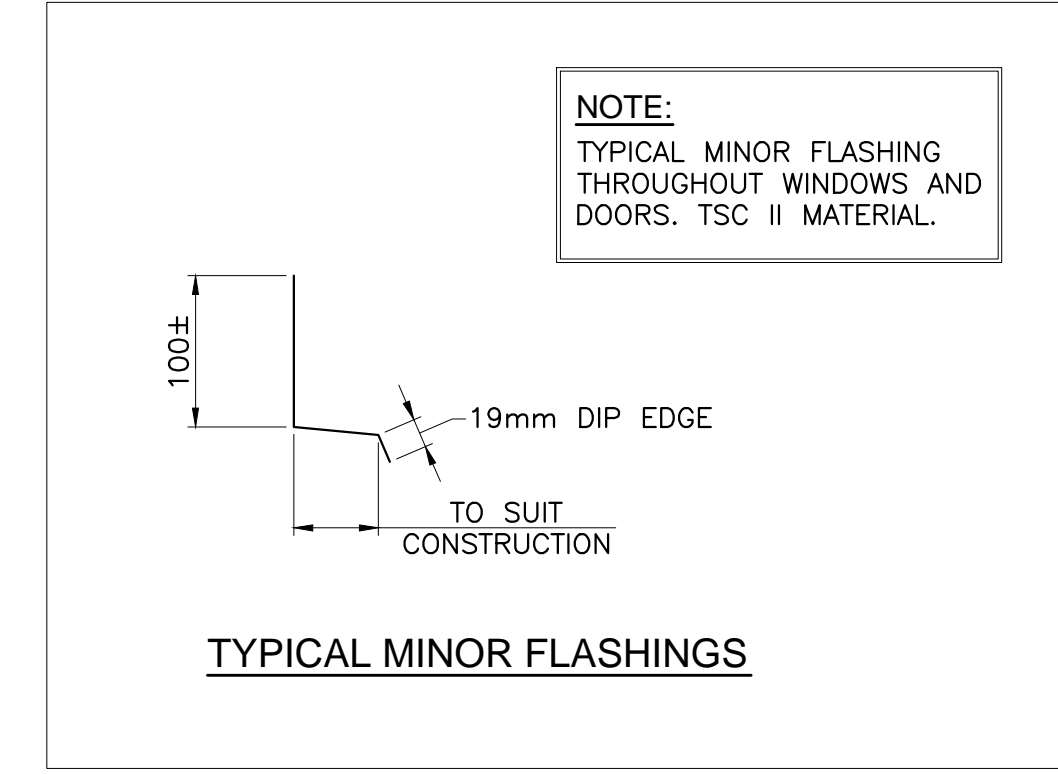
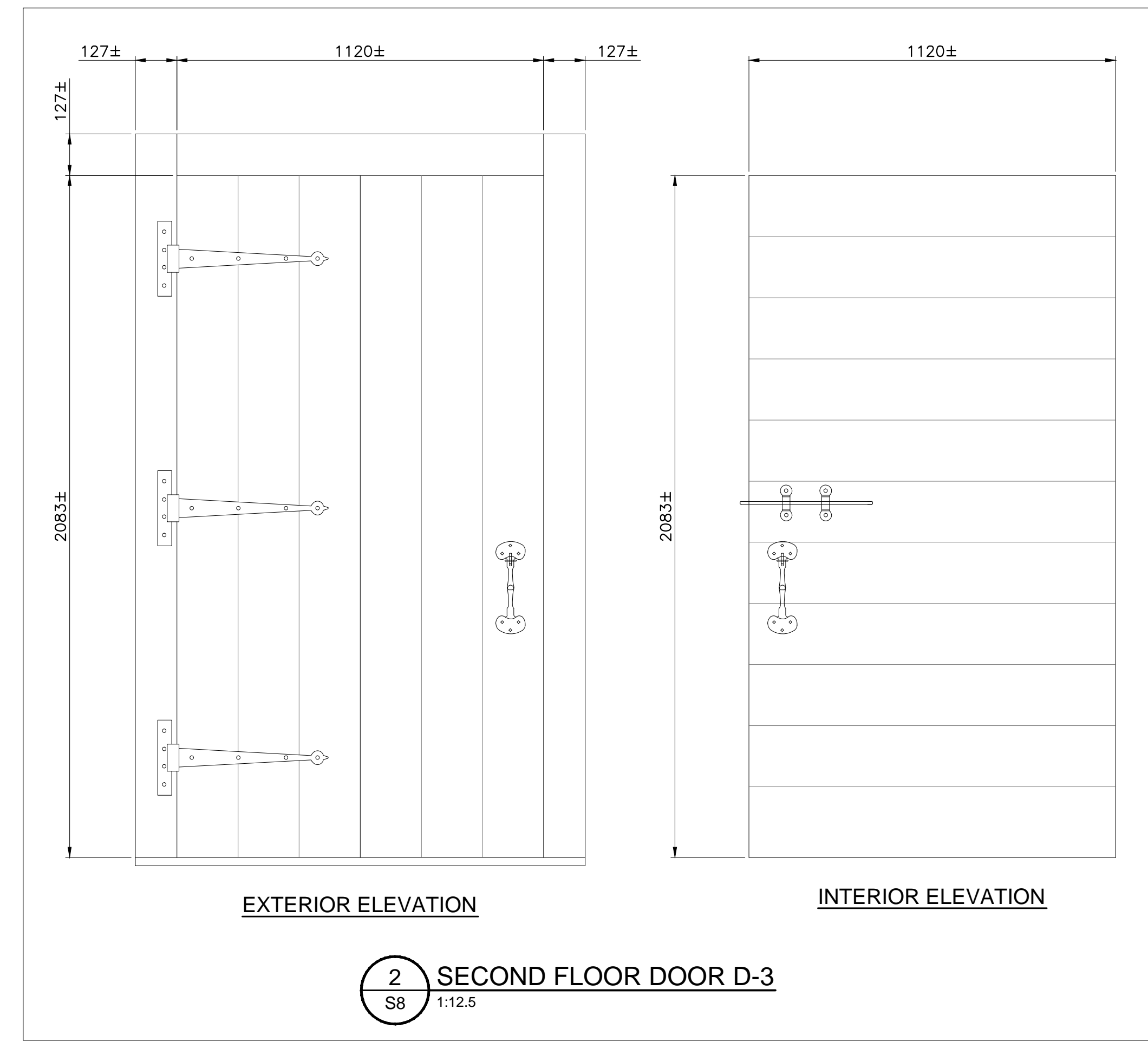
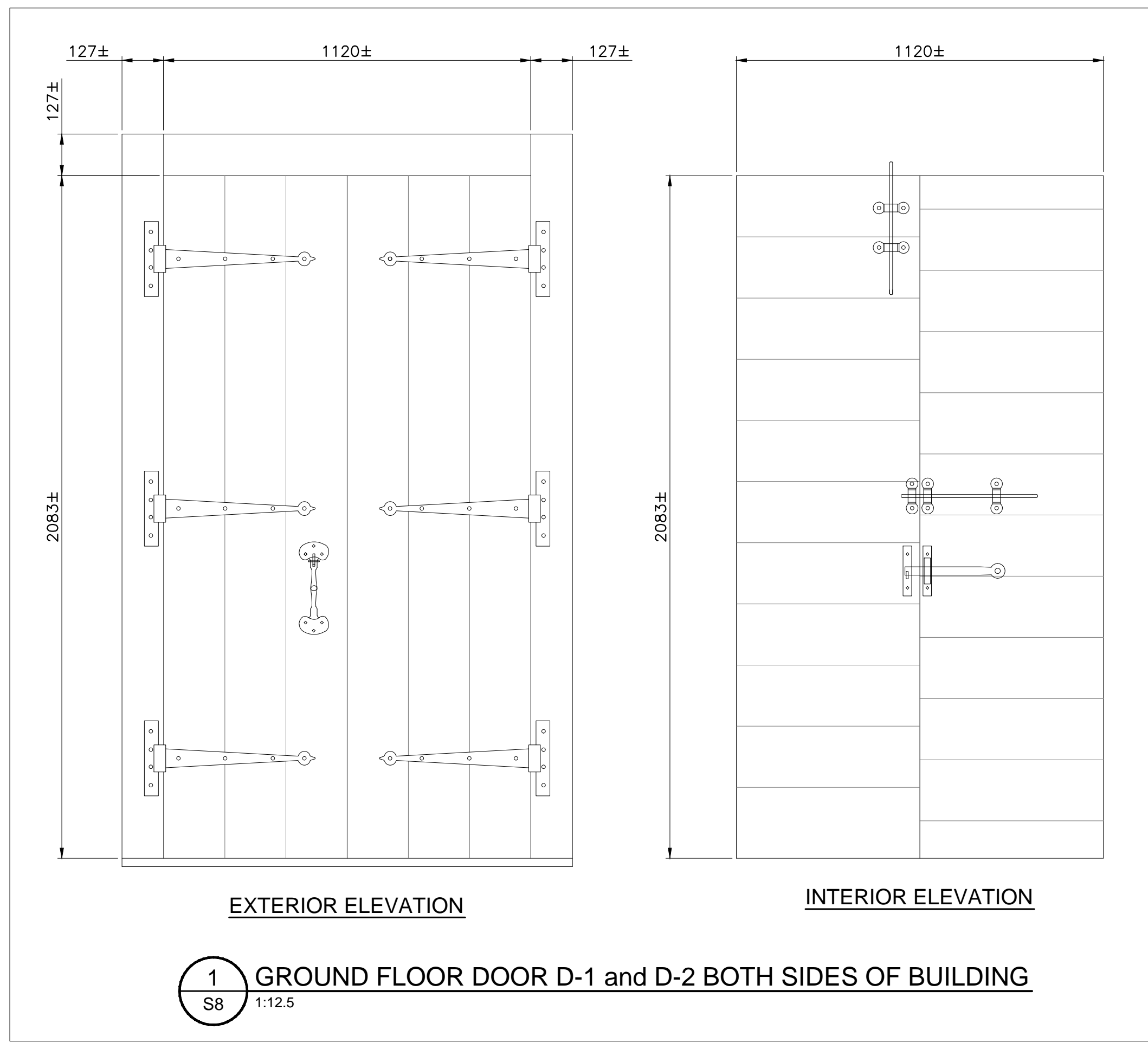
Scale / Echelle AS SHOWN		
Drawn by / Dessiné par AS SHOWN	Date 13/03/17	
Designed by / Conçu par D.A.HUTCWORTH	Date 13/03/17	
Checked by / Vérifié par	Date	
Approved by / Approuvé par	Date	
Project No./No. du projet 30224201	Client No./No du Client	Sheet No./ Feuille No. S7
Drawing Reference No./Numéro de Référence du Dessin		

DRAWING NAME: VIEW PLOTTED: SCALE OF PLOT: PERSON PLOTTING: DATE PLOTTED: TIME PLOTTED:

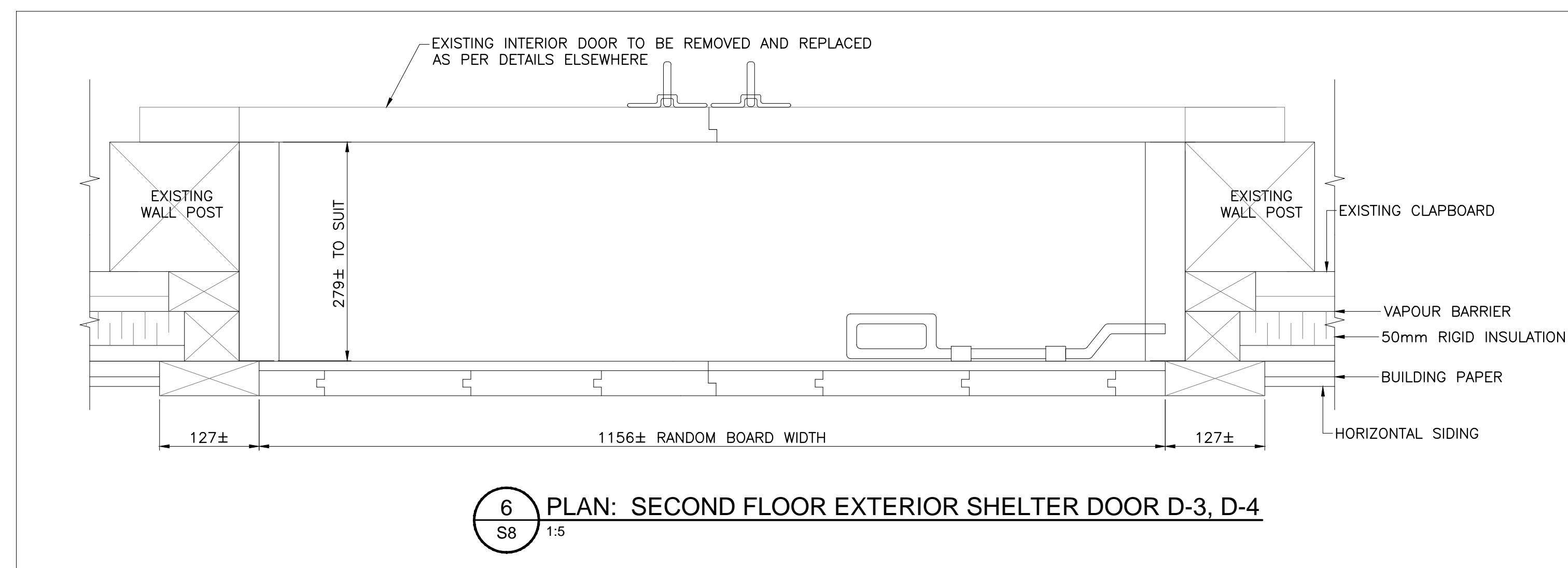
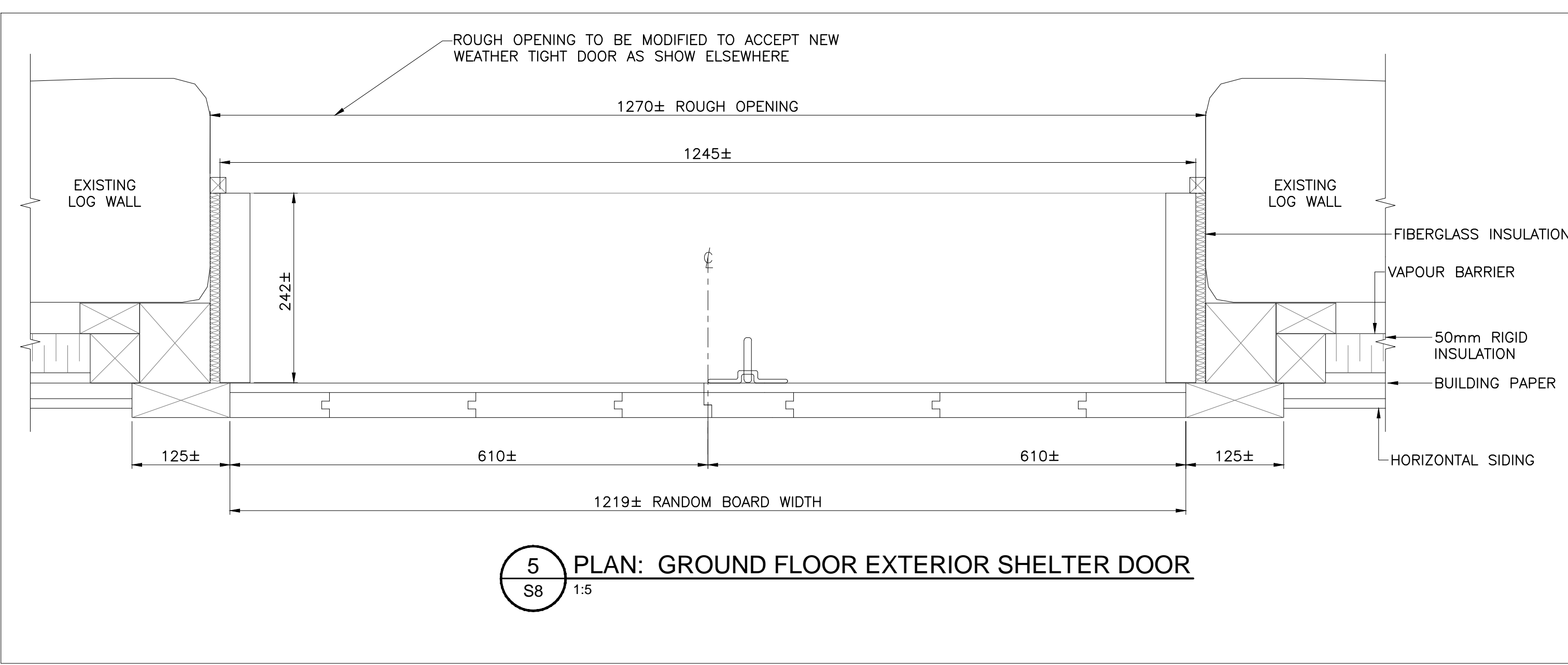
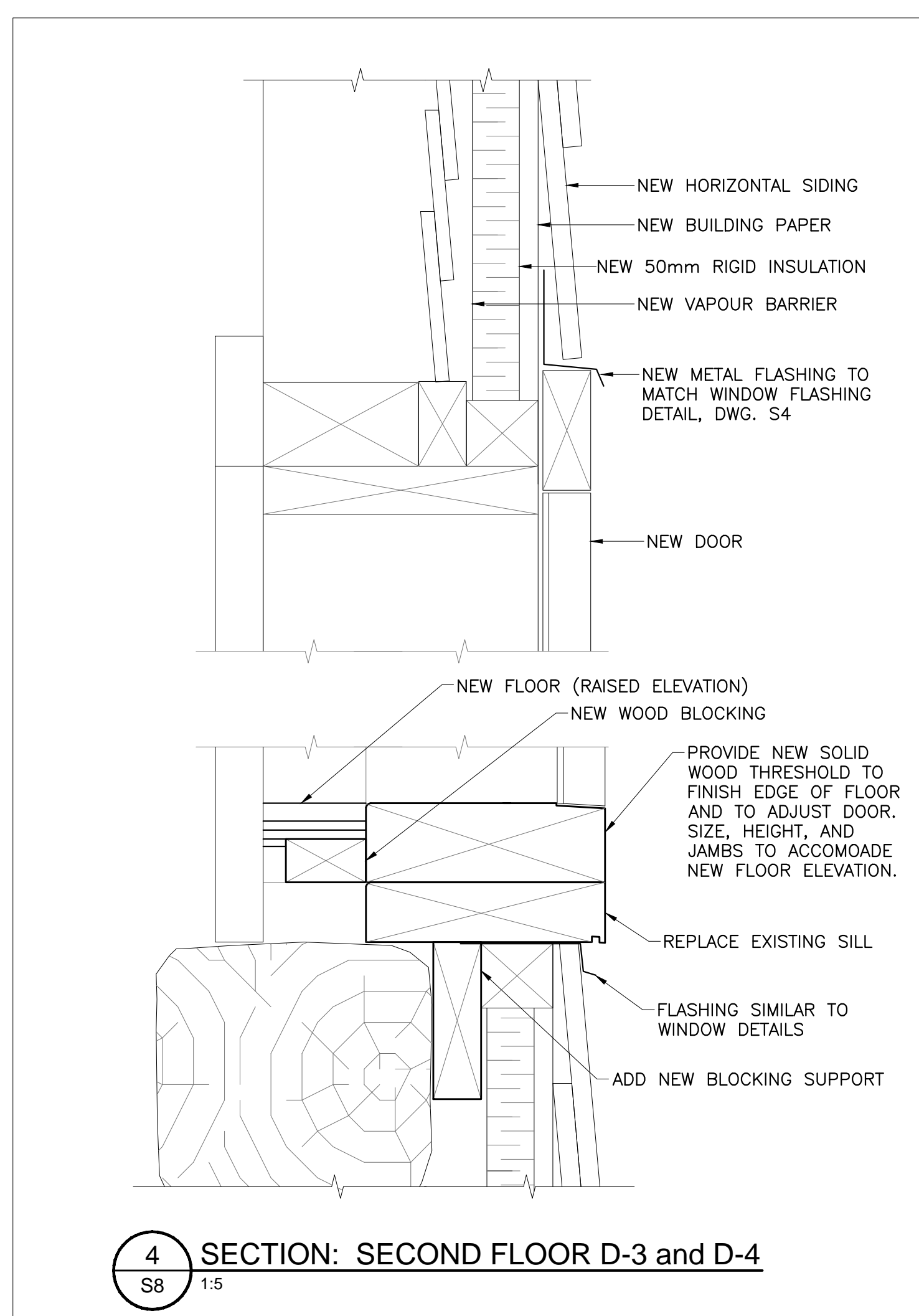
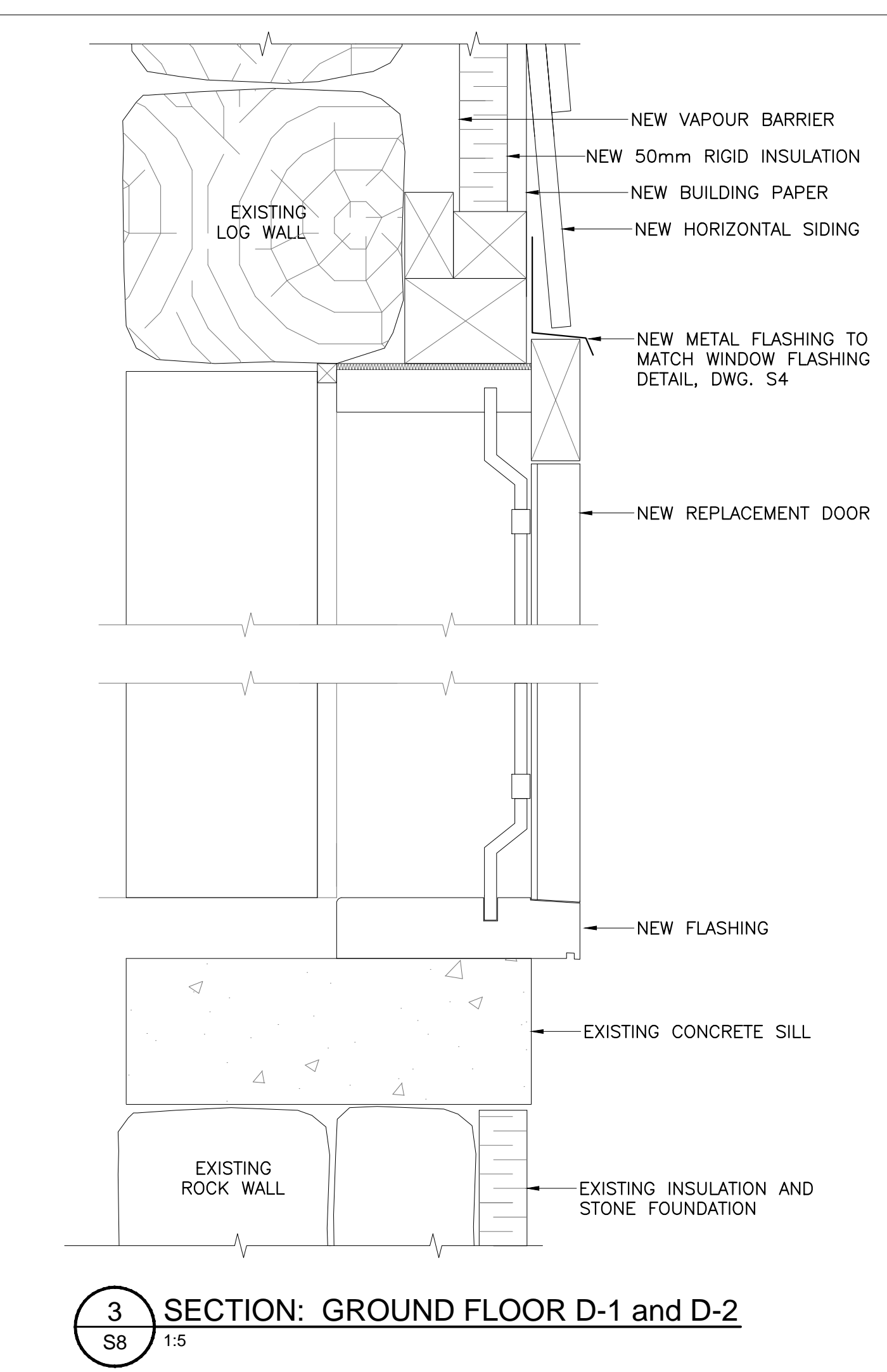


**NOTE:**  
SALVAGE, CLEAN, REPAIR, PAINT AND REUSE ALL EXISTING HARDWARE.

**NOTE:**  
THE EXISTENCE OF ANIMAL EXCREMENT WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTACT WITH THE SUBSTANCES.



**NOTE:**  
ADJUST BOTTOM OF DOOR TO SUIT NEW FLOOR ELEVATION IF REQUIRED. DISCUSS THRESHOLD CONFIGURATION WITH DEPARTMENTAL REPRESENTATIVE.



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No.	Date	Description	Drawn by	Approved
			Dessine par	Approuvé

Revision / Révision	
A	A Detail number No. du détail
B	B Location dwg. no. No. sur dessin
C	C Drawing sheet no. No. du dessin



Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

**NIAGARA-ON-THE-LAKE ONTARIO**  
Drawing title / Titre du dessin  
**EXTERIOR SHUTTER DOOR DETAILS**

Scale / Echelle	AS SHOWN
Drawn by / Dessiné par	L.N.GUILBEAU
Designed by / Conçu par	D.A.HUTCWITH
Checked by / Vérifié par	
Approved by / Approuvé par	

Project No./No. du projet	Client No./No du Client	Sheet No./Feuille No.
30224201		S8
Drawing Reference No./Numéro de Référence du Dessin		

TIME PLOTTED

DATE PLOTTED

PERSON PLOTTING

SCALE OF PLOT

VIEW PLOTTED

DRAWING NAME

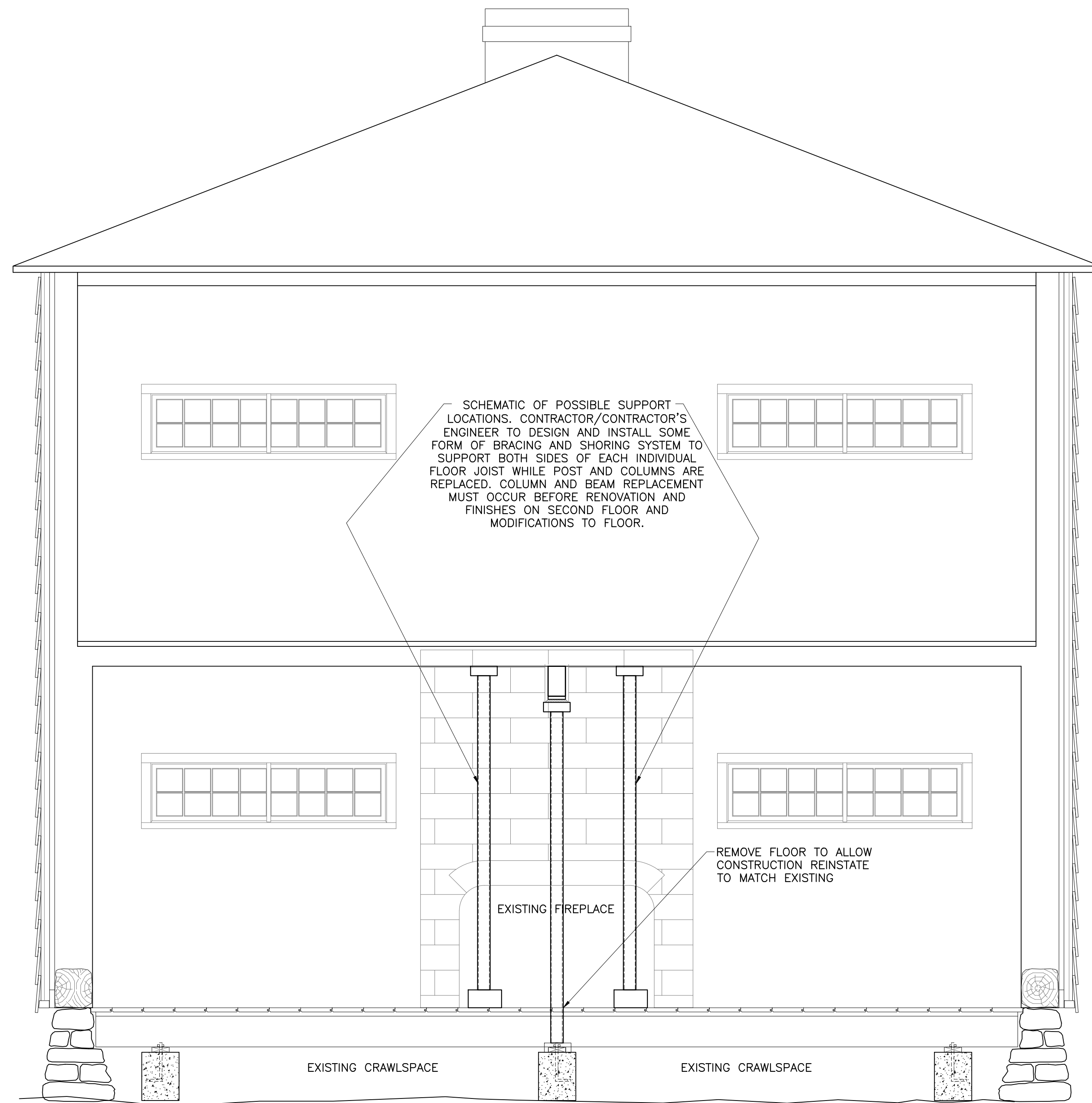


**NOTES FOR TEMPORARY SUPPORT WORK:**

- DO NOT SCALE DRAWINGS.
- SEE NOTES ON DRAWING S1.



**NOTE:**  
 THE EXISTENCE OF ANIMAL EXCREMENT WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTACT WITH THE SUBSTANCES.



**1 NORTH ELEVATION: TEMPORARY SUPPORT**  
 S9 1:25

1	23/12/16	ISSUED FOR INTERNAL REVIEW	L.N.G.	D.A.H.
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No.	Date	Description	Drawn by Dessine par	Approved Approuvé
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Revision / Révision				
A		A Detail number No. du détail		A
B		B Location dwg. no. No. sur dessin		B
C		C Drawing sheet no. No. du dessin		C



Project title / Titre du projet

**REHABILITATION OF  
 MEN'S BARRACKS BUILDING  
 BUTLER'S BARRACKS**

**NIAGARA-ON-THE-LAKE ONTARIO**

Drawing title / Titre du dessin

**TEMPORARY SUPPORT  
 SCHEMATIC**

Scale / Echelle	
AS SHOWN	
Drawn by / Dessiné par	Date
L.N.GUILBEAU	13/03/17
Designed by / Conçu par	Date
D.A.HUTCWITH	13/03/17
Checked by / Vérifié par	Date
Approved by / Approuvé par	Date

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
3Q224201		S9
Drawing Reference No./Numéro de Référence du Dessin		

TIME PLOTTED

DATE PLOTTED

PERSON PLOTTING

SCALE OF PLOT

VIEW PLOTTED

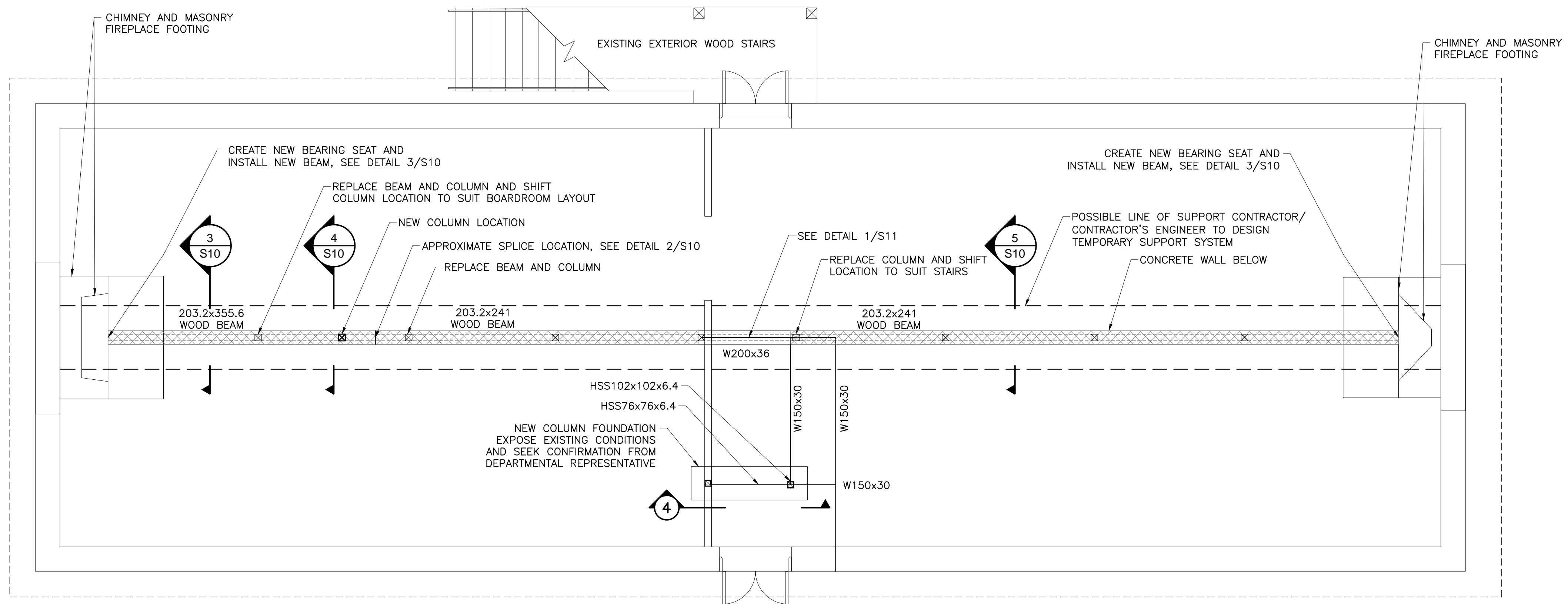
DRAWING NAME



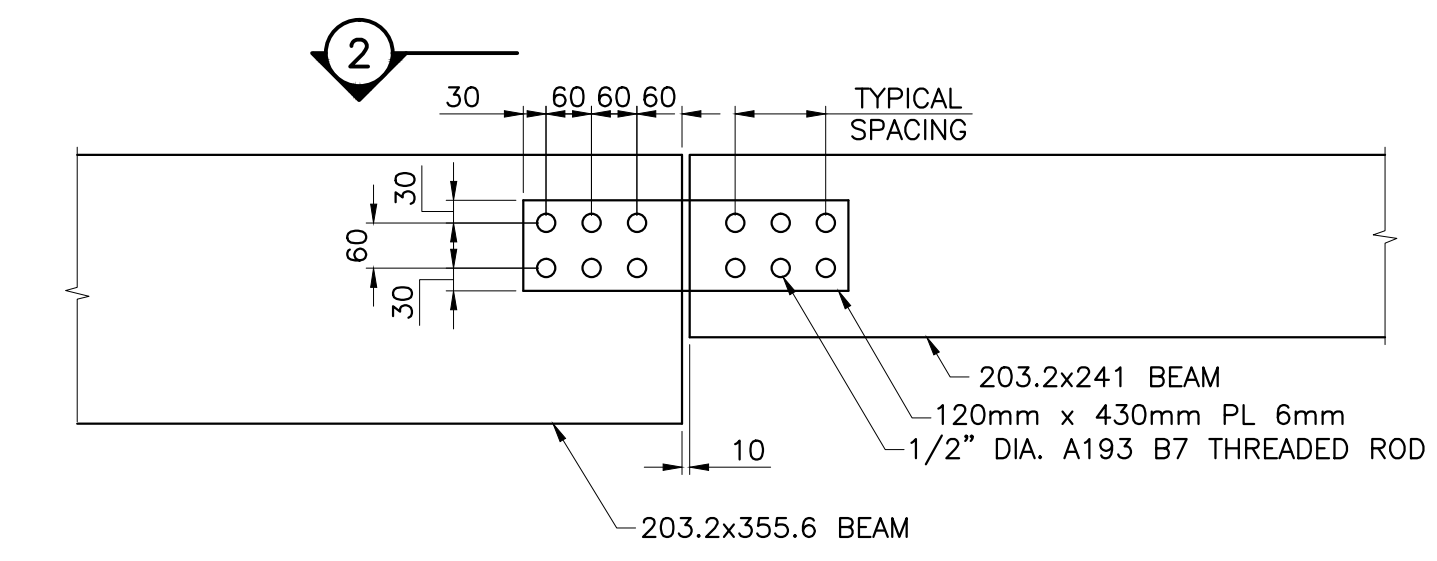
**NOTE:**  
THE EXISTENCE OF ANIMAL EXCREMENT WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTRACT WITH THE SUBSTANCES.

**NOTES FOR FOUNDATION WORK:**

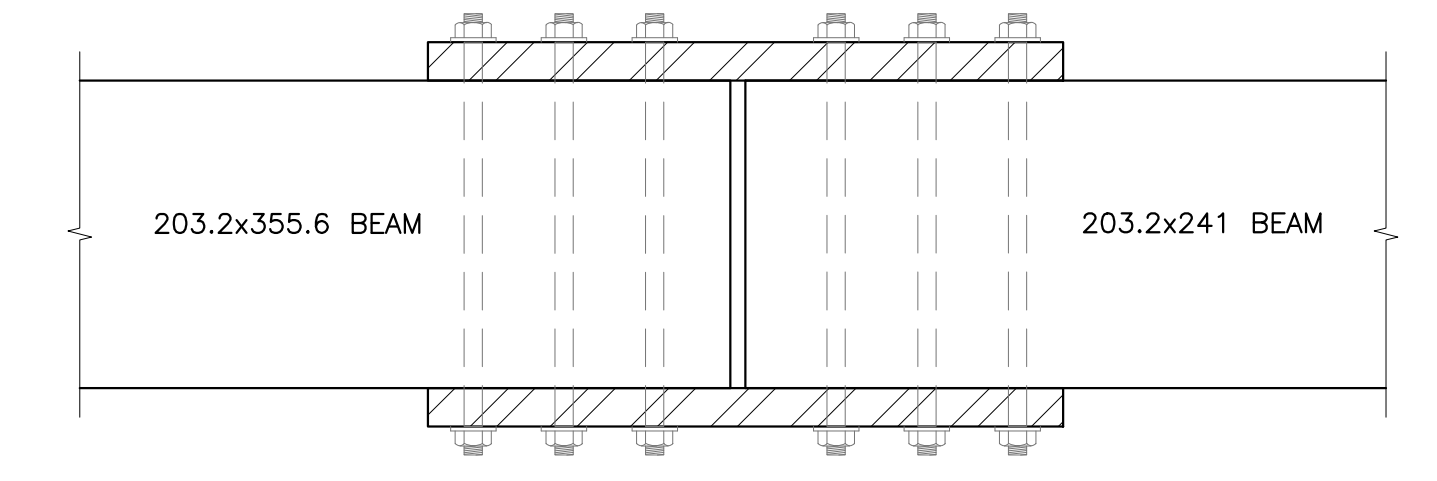
- DO NOT SCALE DRAWINGS.
- SEE NOTES ON DRAWING S1.



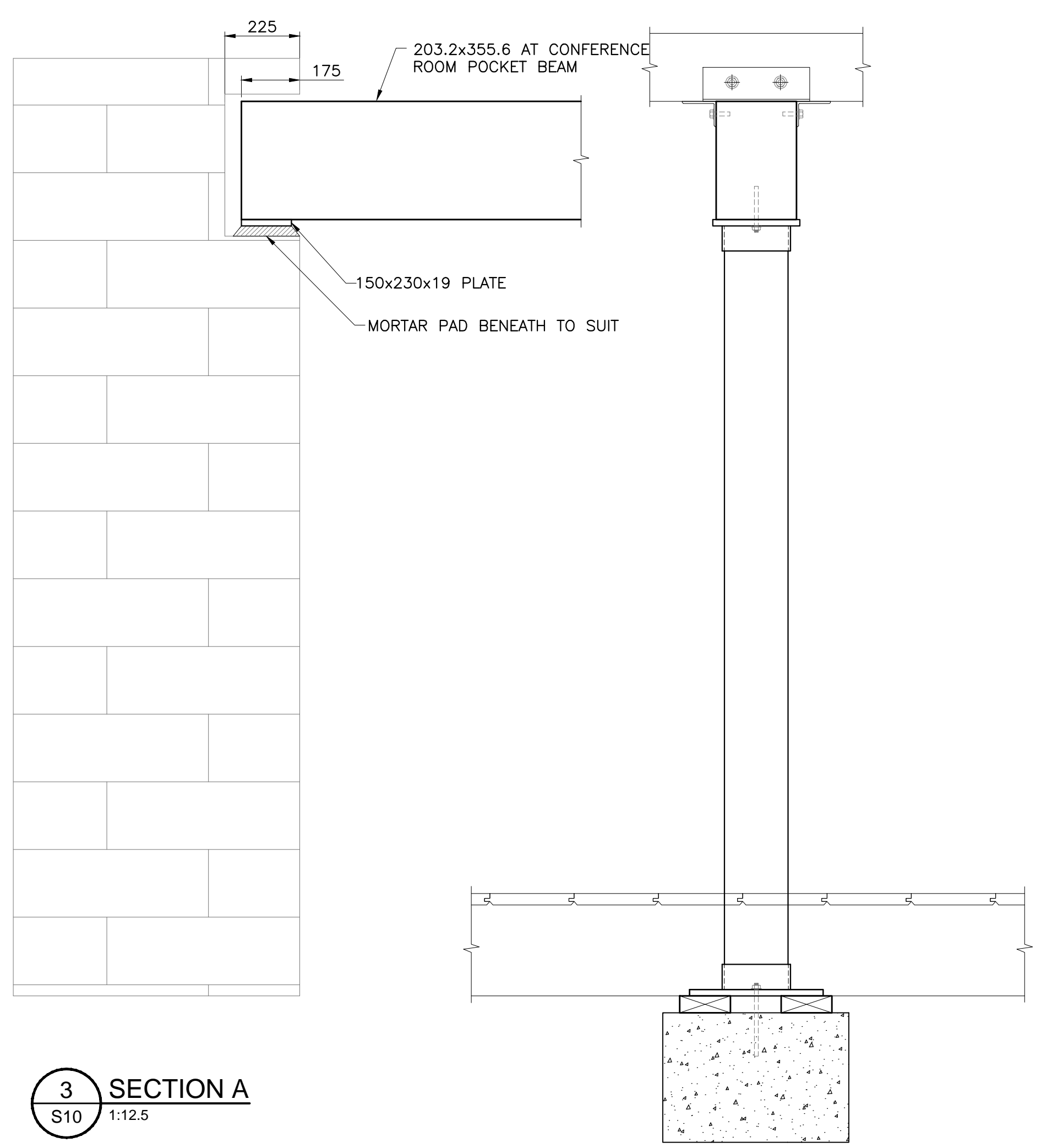
**1 FOUNDATION PLAN**  
S10 1:50



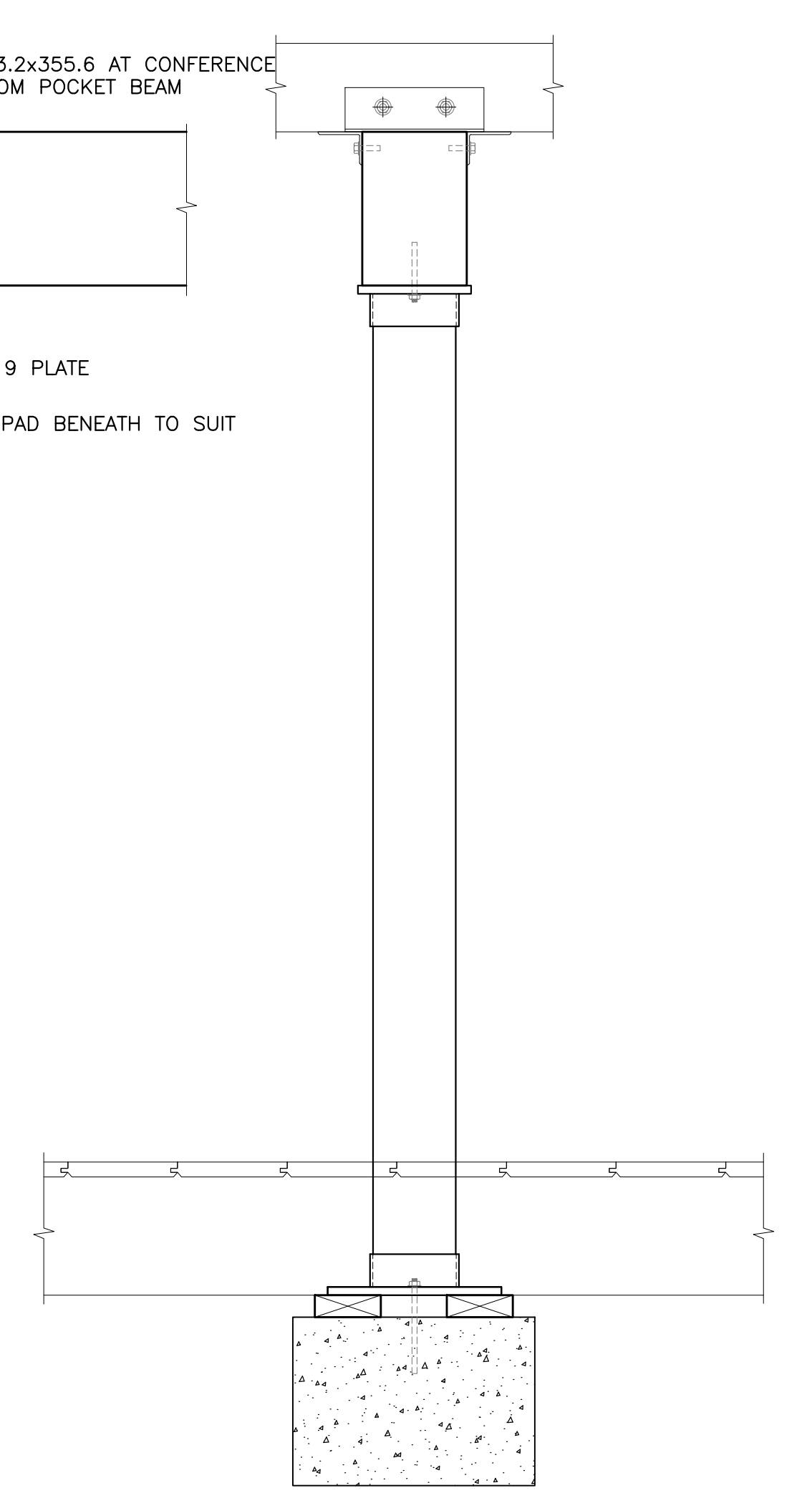
**BEAM SPLICE DETAIL**  
1:10



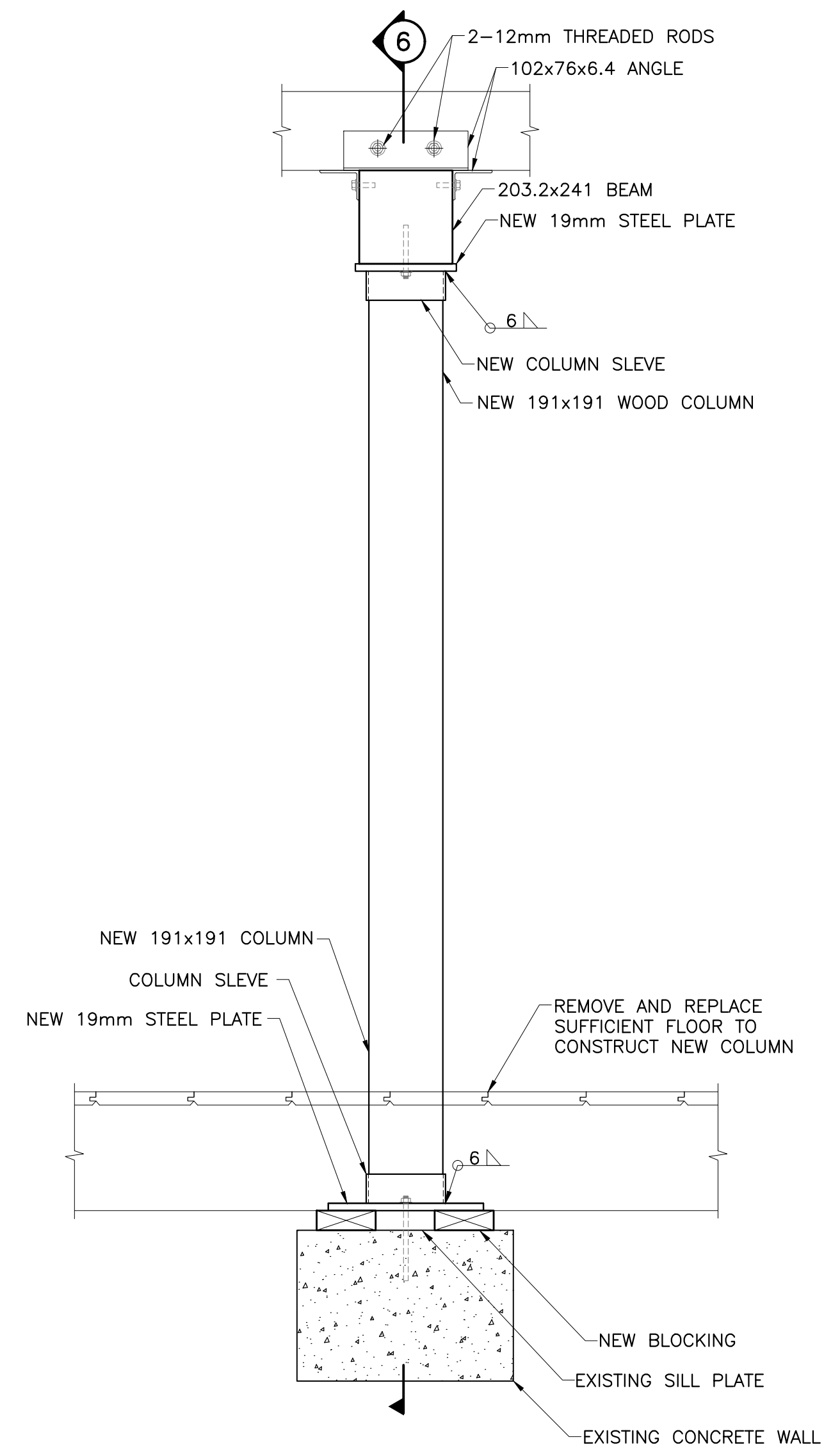
**2 BEAM SPLICE DETAIL: PLAN VIEW**  
S10 1:5



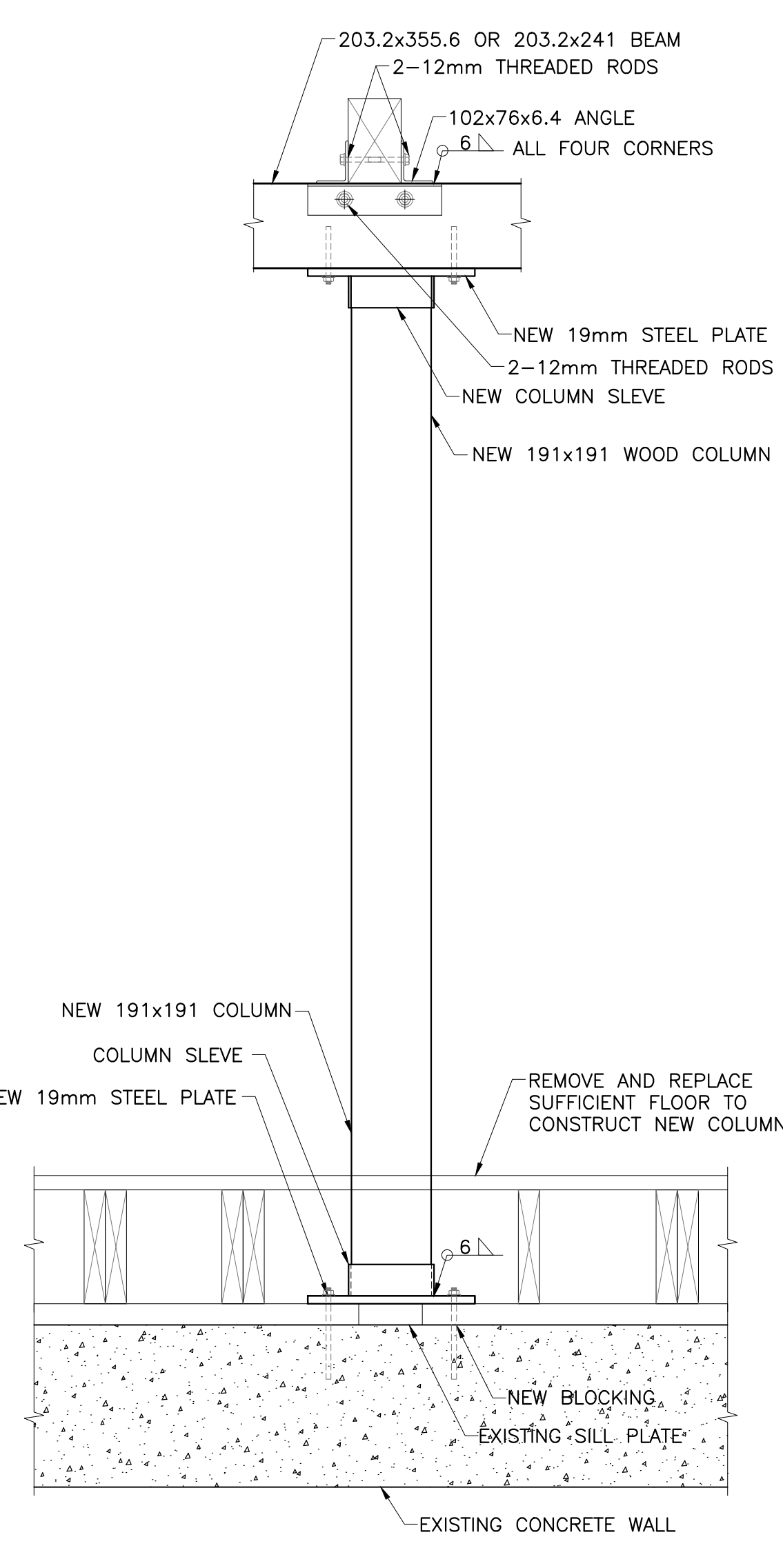
**3 SECTION A**  
S10 1:12.5



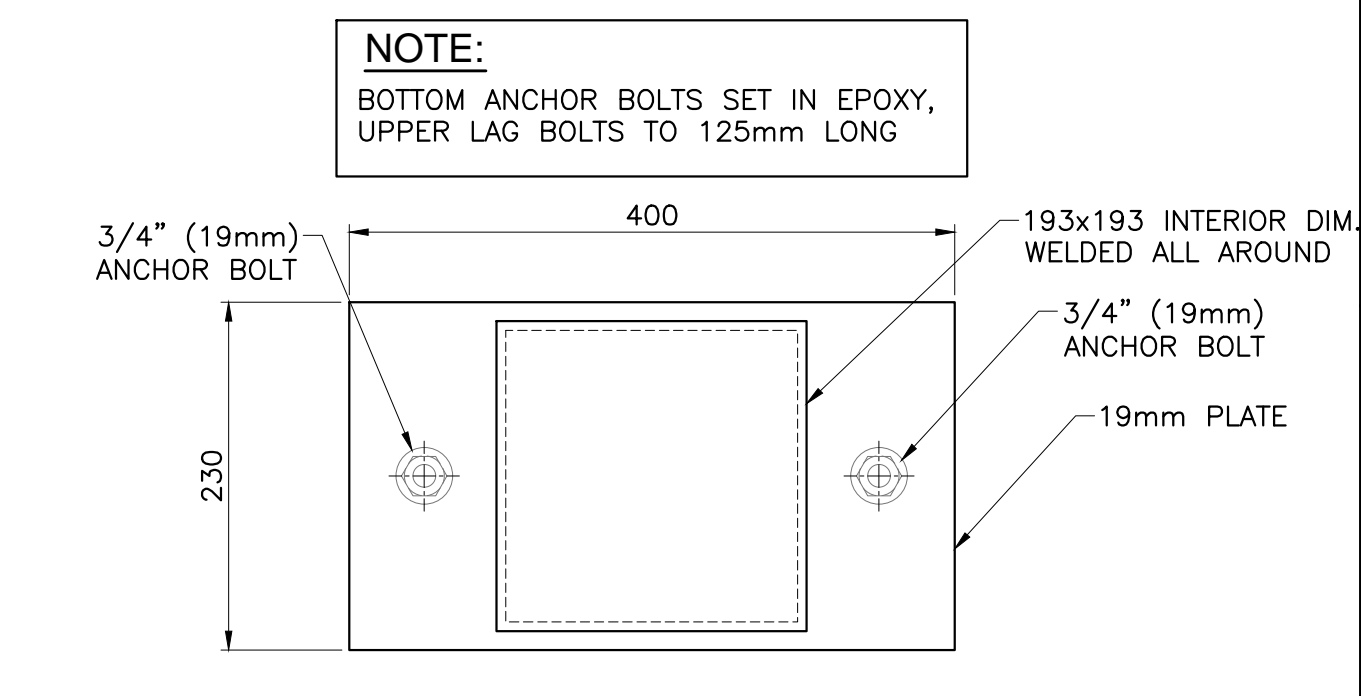
**4 BEAM TO COLUMN CONNECTION DETAIL**  
S10 1:12.5



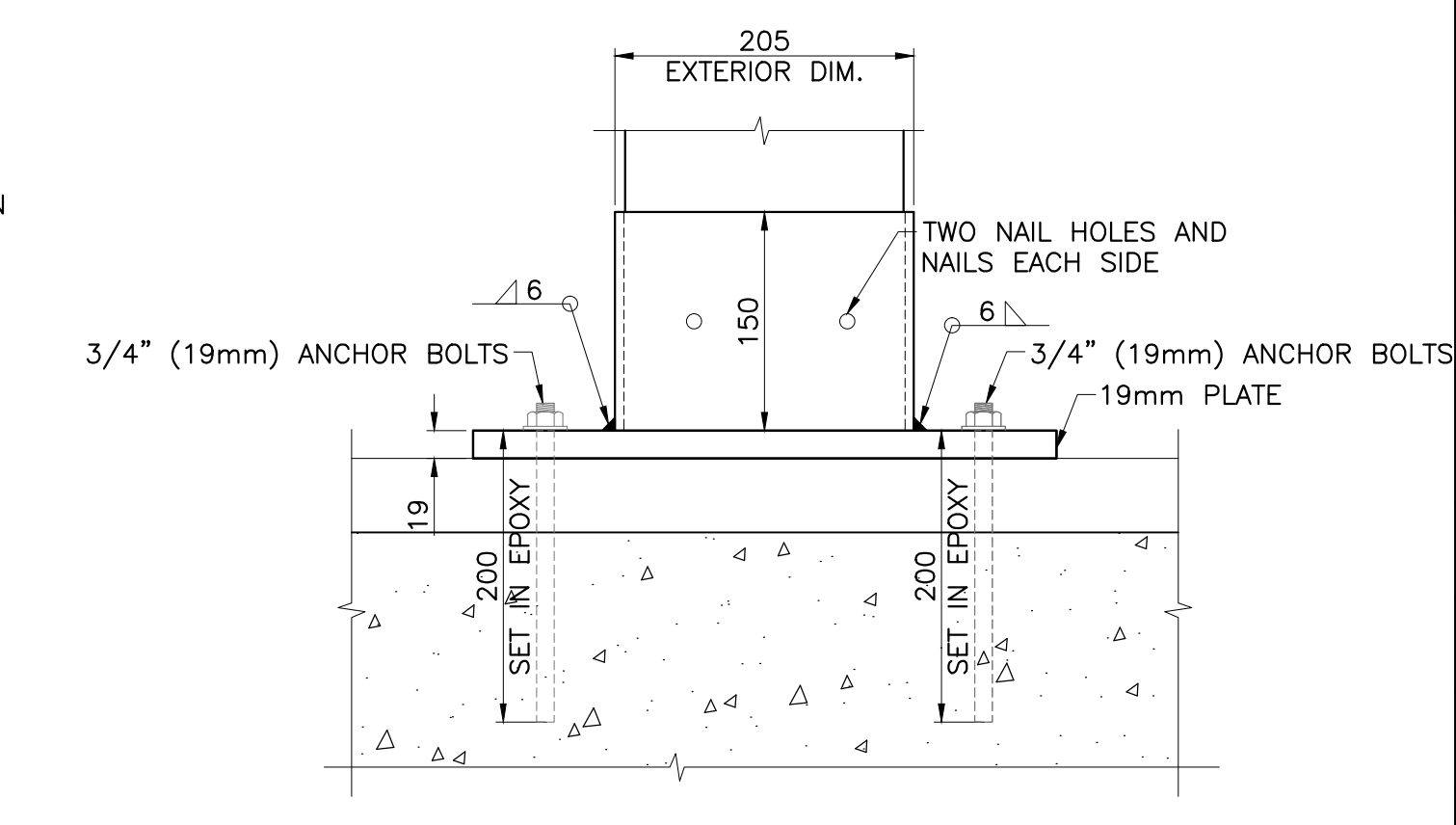
**5 BEAM TO COLUMN CONNECTION DETAIL**  
S10 1:12.5



**6 BEAM TO COLUMN CONNECTION DETAIL**  
S10 1:12.5



**TOP AND BOTTOM OF COLUMNS BASE PLATE DETAIL**  
1:5



**TOP AND BOTTOM OF COLUMNS BASE PLATE DETAIL**  
1:5

1	23/12/16	ISSUED FOR INTERNAL REVIEW	L.N.G.	D.A.H.
No.	Date	Description	Drawn by	Approved

Revision / Révision	
A	A Detail number
B	B Location dwg. no.
C	C Drawing sheet no.



Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin

**BEAM AND COLUMN REPLACEMENT DETAILS**

Scale / Echelle	AS SHOWN
Drawn by / Dessiné par	Date
L.N.GUILBEAU	13/03/17
Designed by / Conçu par	Date
D.A.HUTCWITH	13/03/17
Checked by / Vérifié par	Date

Approved by / Approuvé par Date

Project No./No. du projet	Client No./No du Client	Sheet No./Feuille No.
30224201		S10
Drawing Reference No./Numéro de Référence du Dessin		

DRAWING NAME: VIEW PLOTTED: SCALE OF PLOT: PERSON PLOTTING: DATE PLOTTED: TIME PLOTTED:

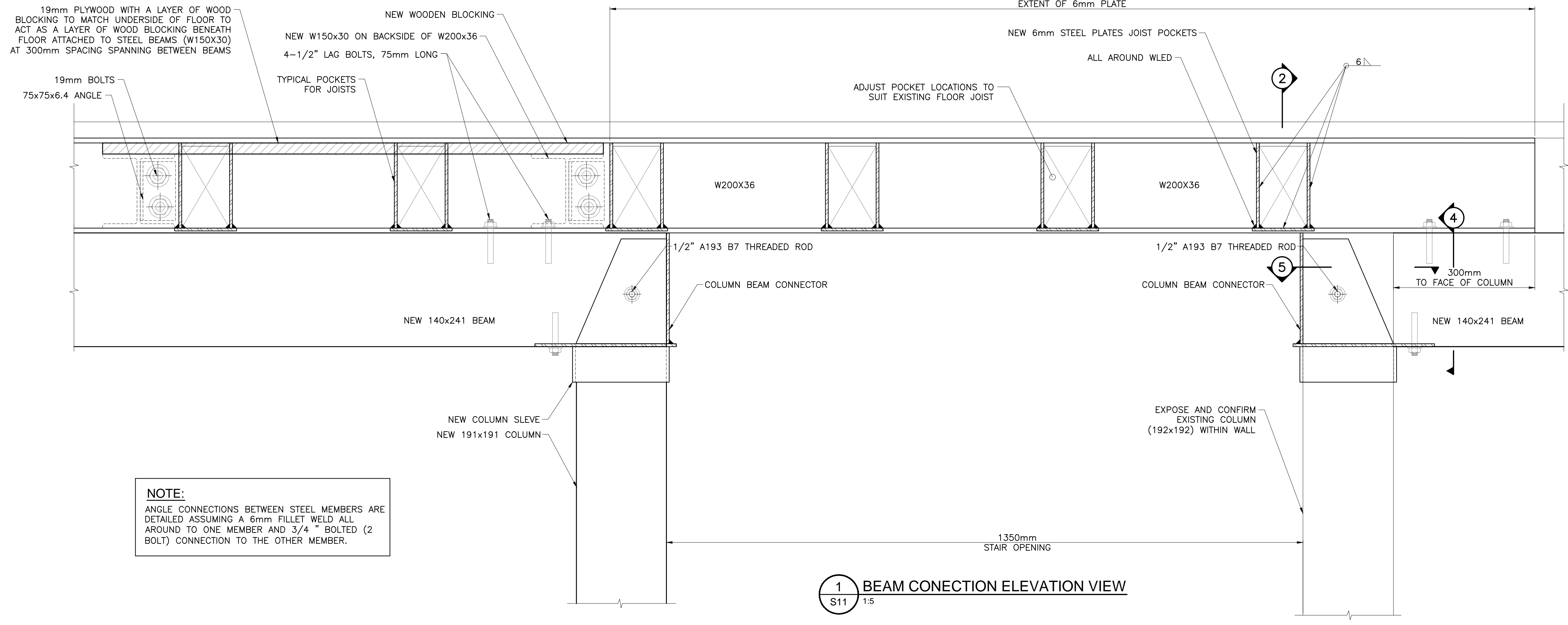


**NOTES FOR FOUNDATION WORK:**

- DO NOT SCALE DRAWINGS.
- SEE NOTES ON DRAWING S1.

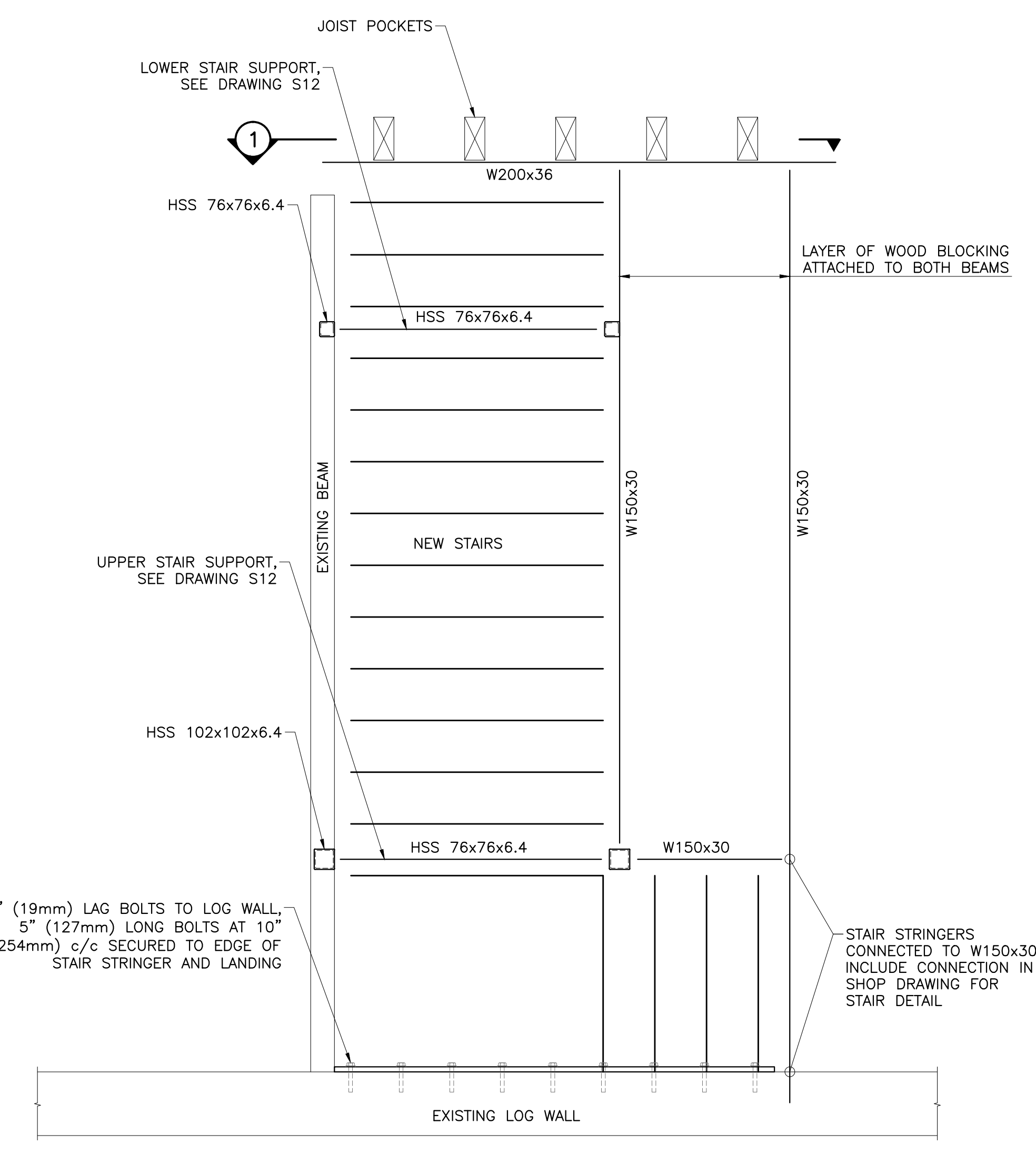


**NOTE:**  
THE EXISTENCE OF ANIMAL EXCREMENT WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTRACT WITH THE SUBSTANCES.

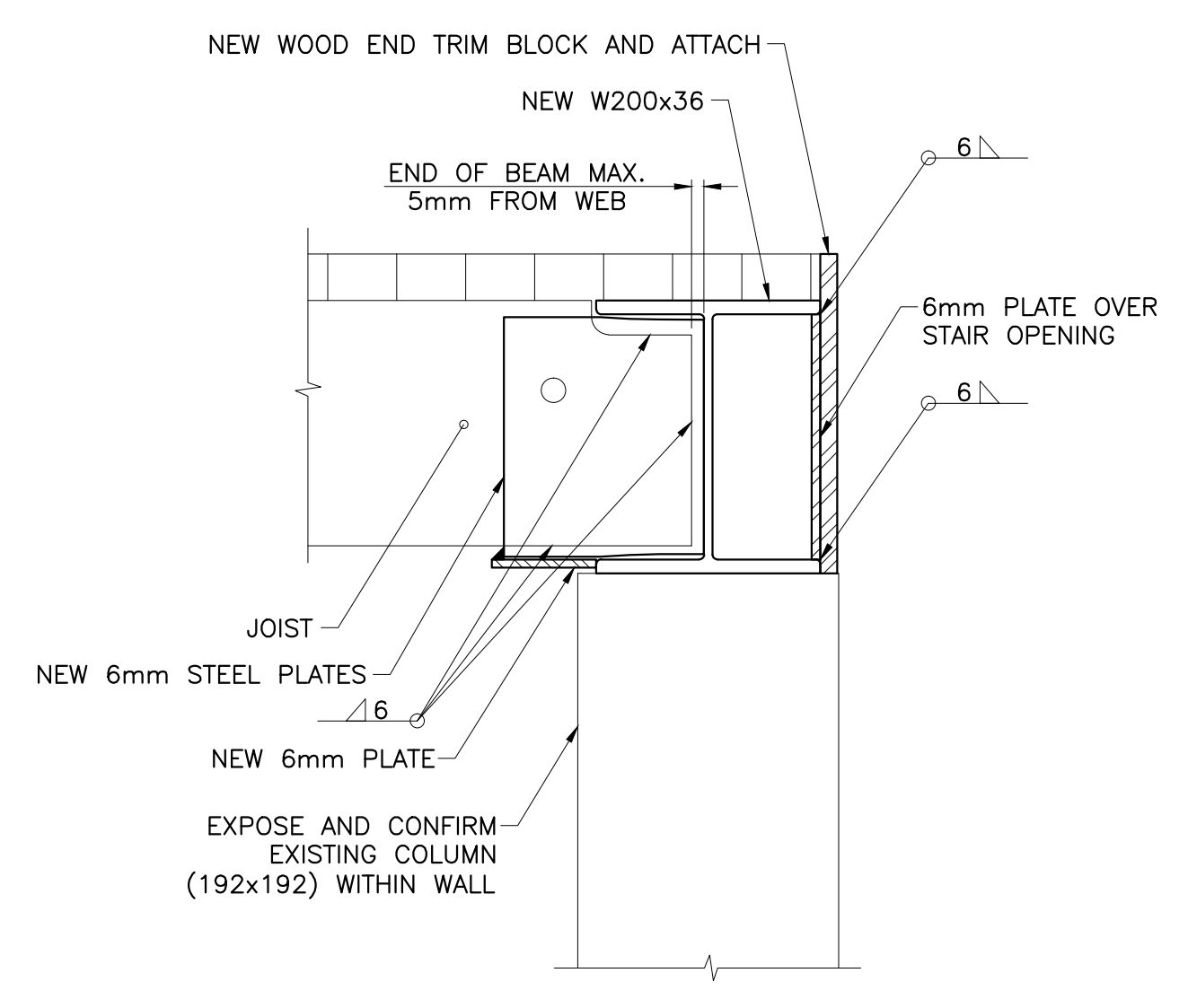


**NOTE:**  
ANGLE CONNECTIONS BETWEEN STEEL MEMBERS ARE DETAILED ASSUMING A 6mm FILLET WELD ALL AROUND TO ONE MEMBER AND 3/4\"/>

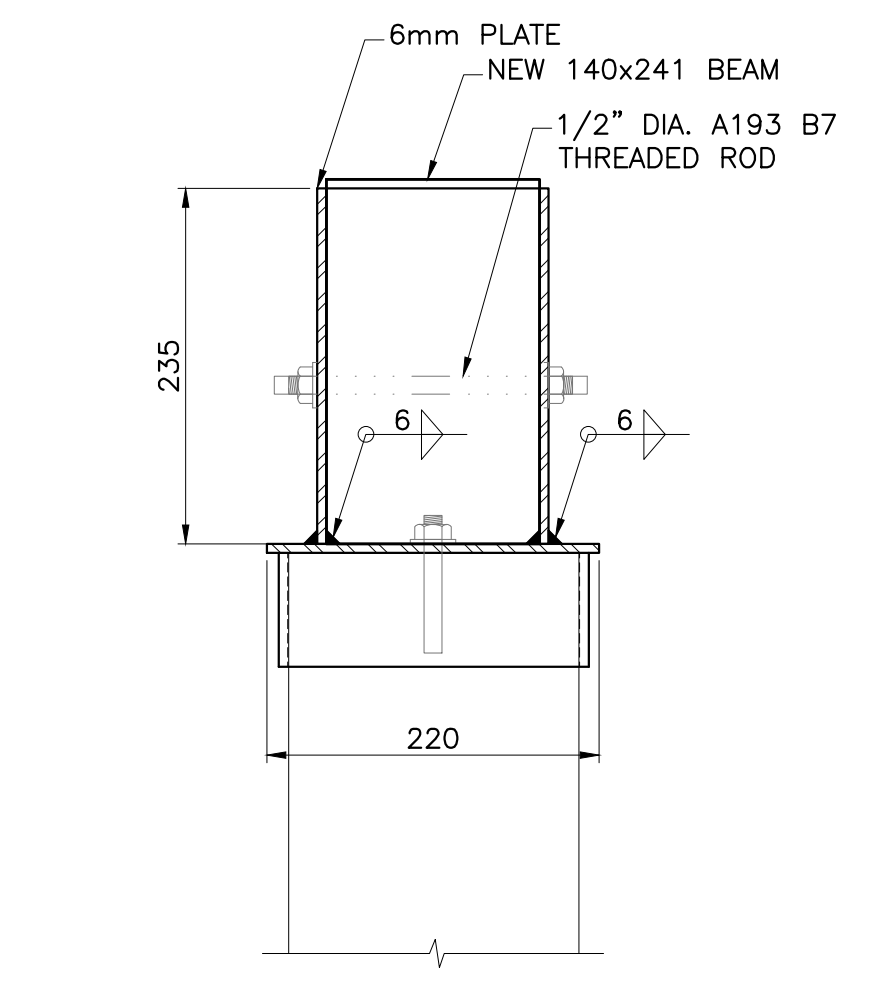
**1 BEAM CONNECTION ELEVATION VIEW**  
S11 1:5



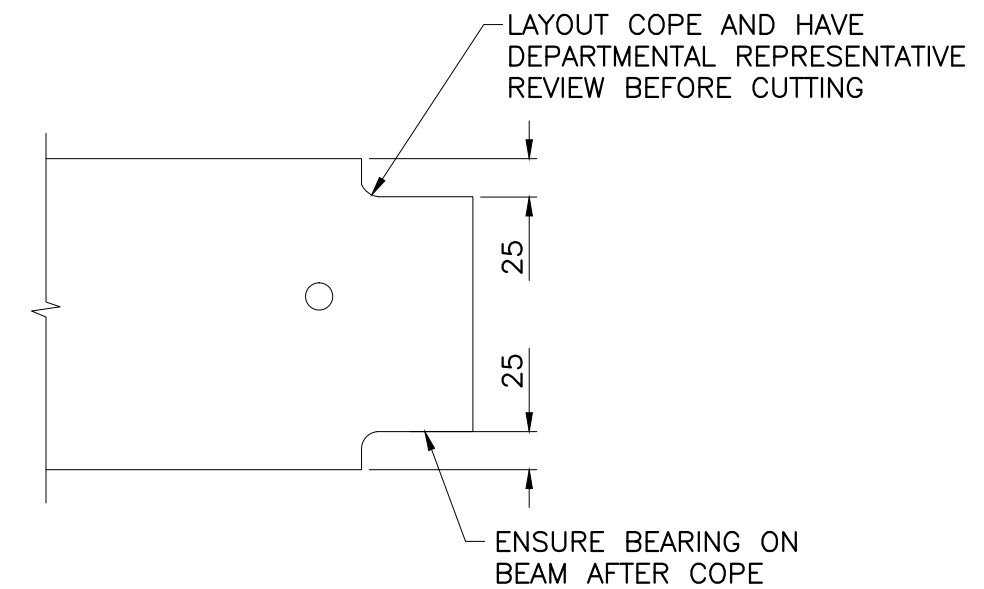
**NEW STAIR SUPPORT LAYOUT**  
1:20



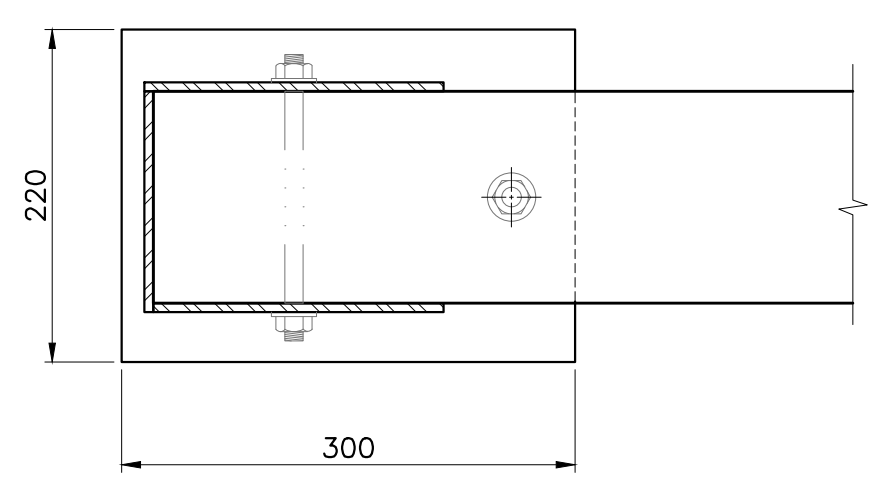
**2 TYPICAL POCKETS FOR JOIST CONNECTION DETAIL**  
S11 1:5



**4 COLUMN BEAM CONNECTOR DETAIL**  
S11 1:5



**3 COPPING DETAIL FOR JOISTS IN TYPICAL POCKETS FOR JOISTS**  
S11 1:5



**5 COLUMN BEAM CONNECTOR HANGER DETAIL**  
S11 1:5

TIME PLOTTED

DATE PLOTTED

PERSON PLOTTING

SCALE OF PLOT

VIEW PLOTTED

DRAWING NAME

1	23/12/16	ISSUED FOR INTERNAL REVIEW	L.N.G.	D.A.H.
1	7/12/16	ISSUED FOR TENDER	L.N.G.	D.A.H.
No.	Date	Description	Drawn by	Approved
			Dessine par	Approuvé

Revision / Révision	
A	A Detail number No. du détail
B	B Location dwg. no. No. sur dessin
C	C Drawing sheet no. No. du dessin



Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin

**BEAM OVER STAIRS AND COLUMN**

Scale / Echelle  
AS SHOWN

Drawn by / Dessiné par  
L.N.GUILBEAU 13/03/17

Designed by / Conçu par  
D.A.HUTCWITH 13/03/17

Checked by / Vérifié par

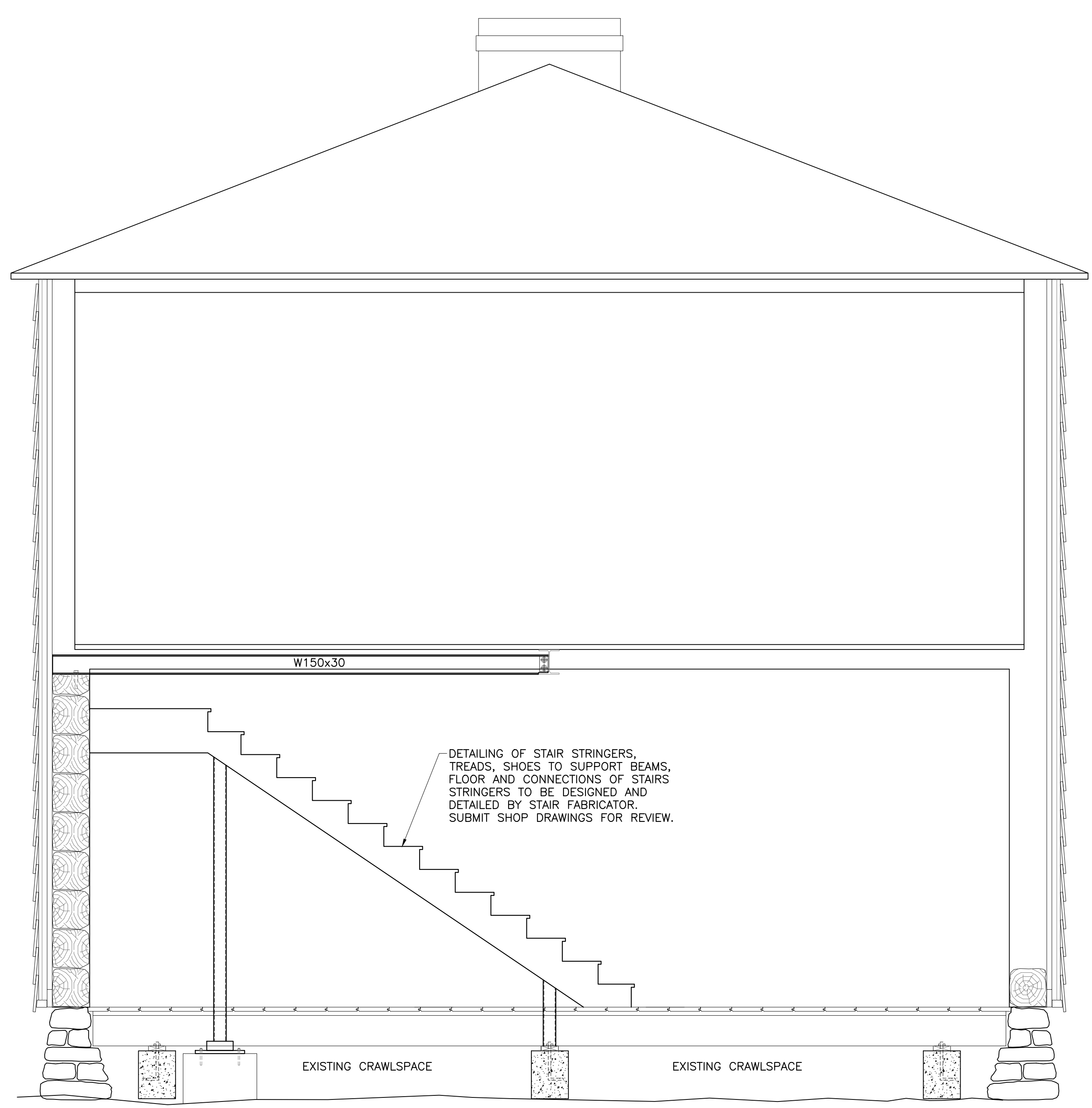
Approved by / Approuvé par

Project No./No. du projet  
30224201

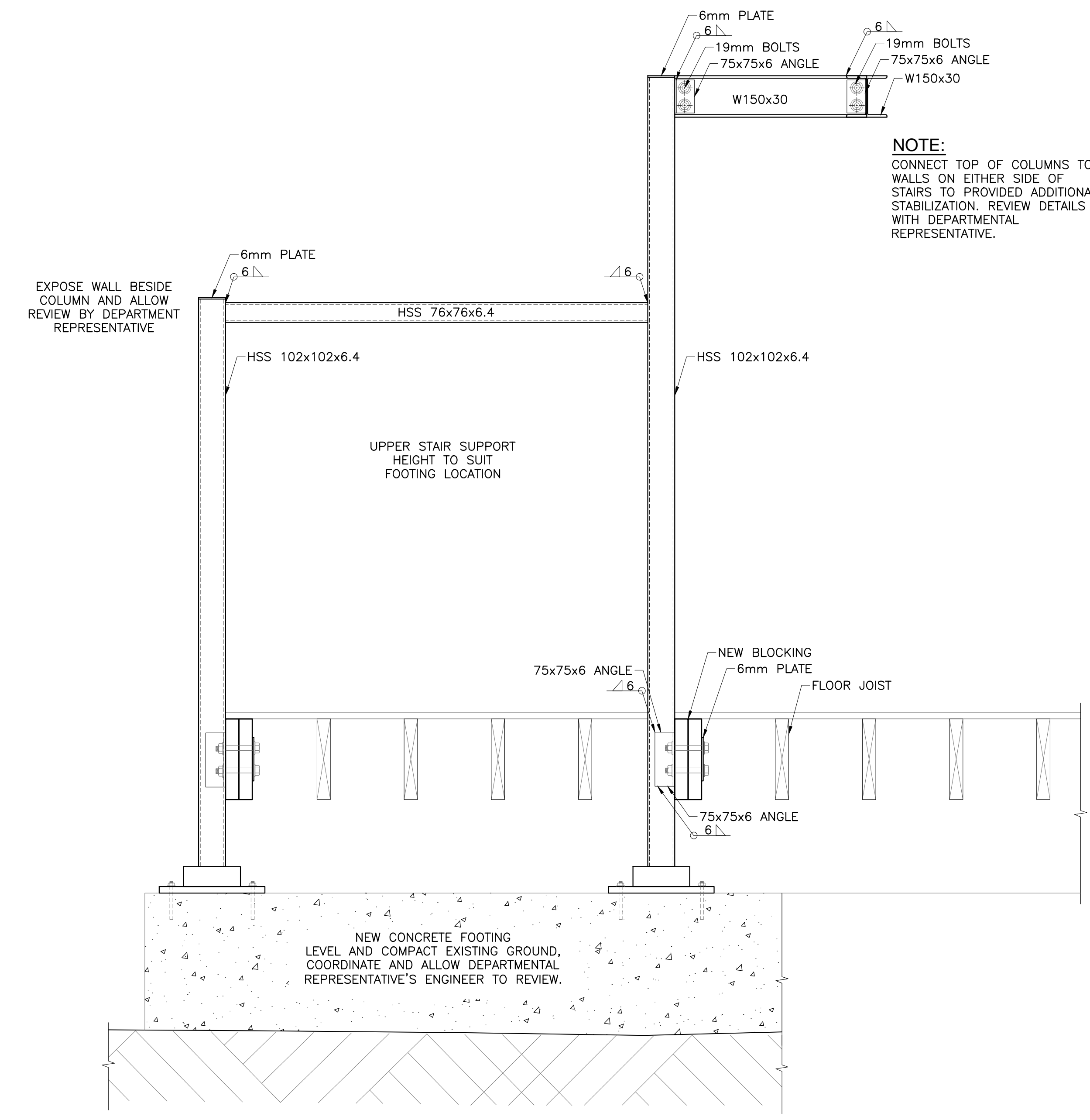
Client No./No du Client  
Sheet No./Feuille No.  
Drawing Reference No./Numéro de Référence du Dessin  
**S11**



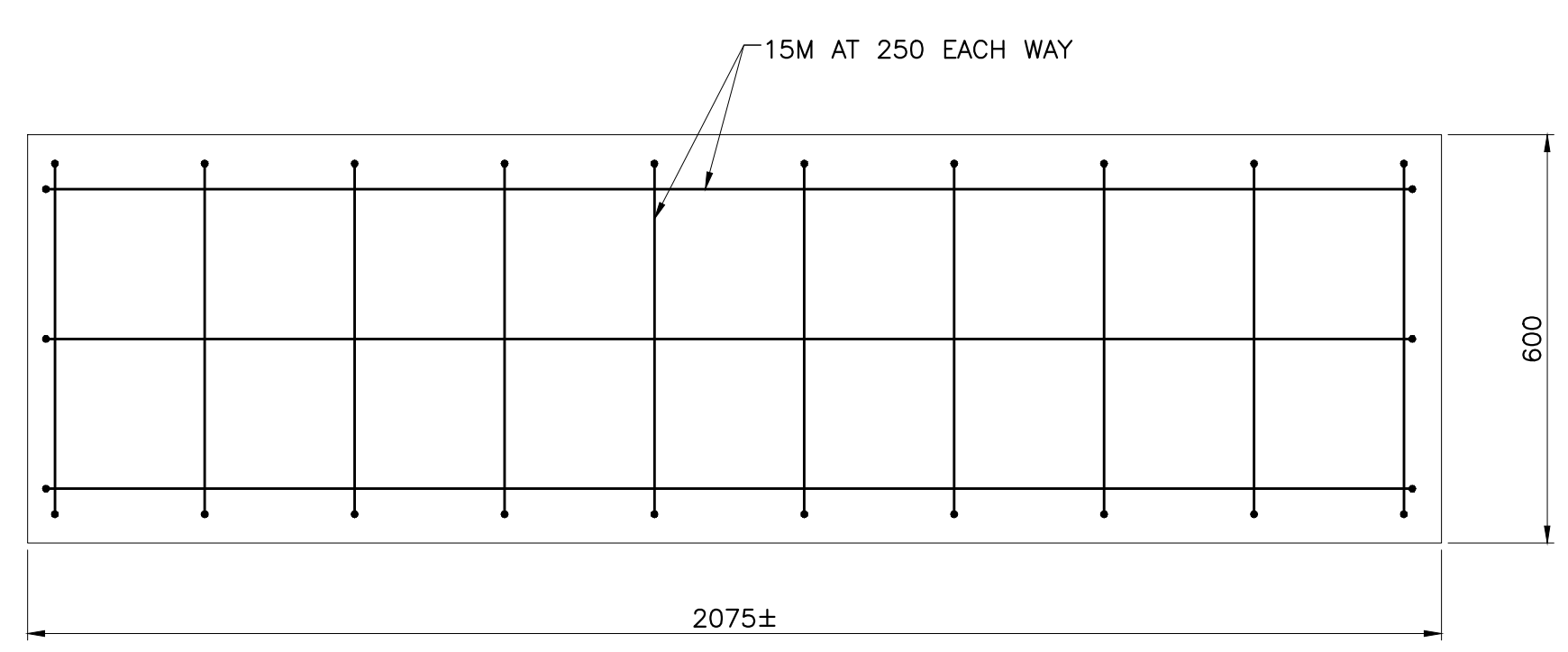
**NOTE:**  
THE EXISTENCE OF ANIMAL EXCREMENT WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTACT WITH THE SUBSTANCES.



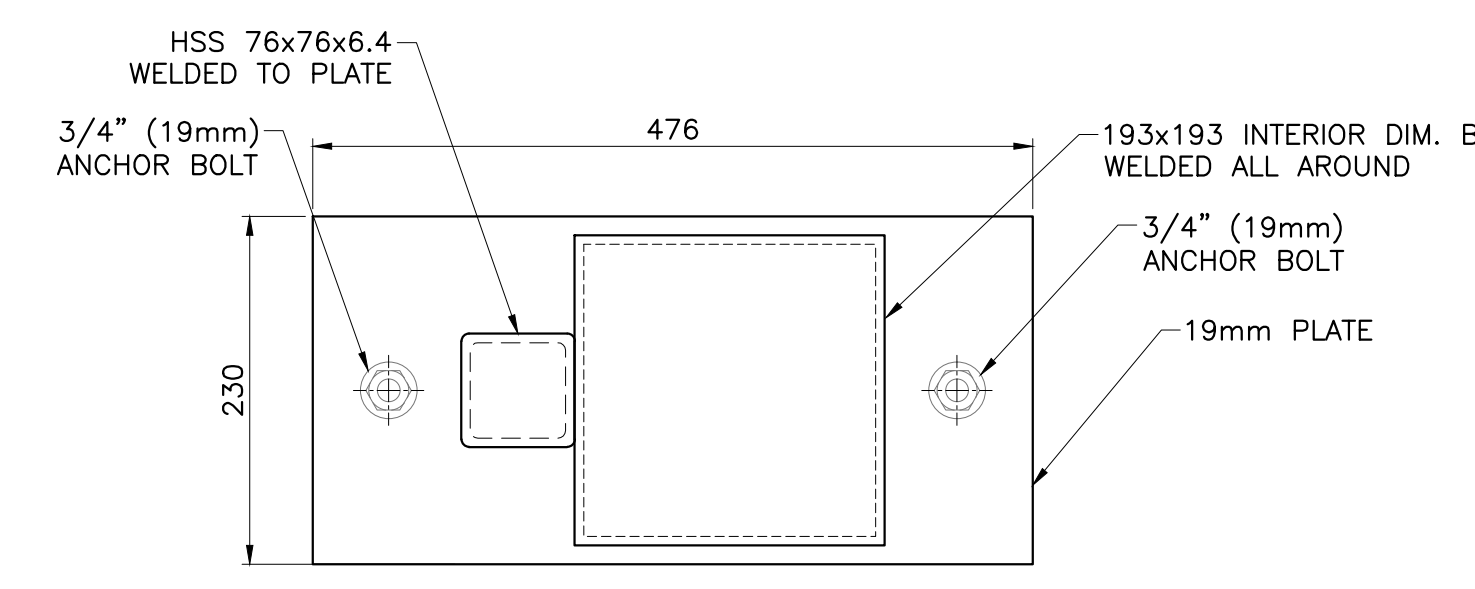
**1 NORTH ELEVATION: STAIR SUPPORT DETAIL**  
S12 1:25



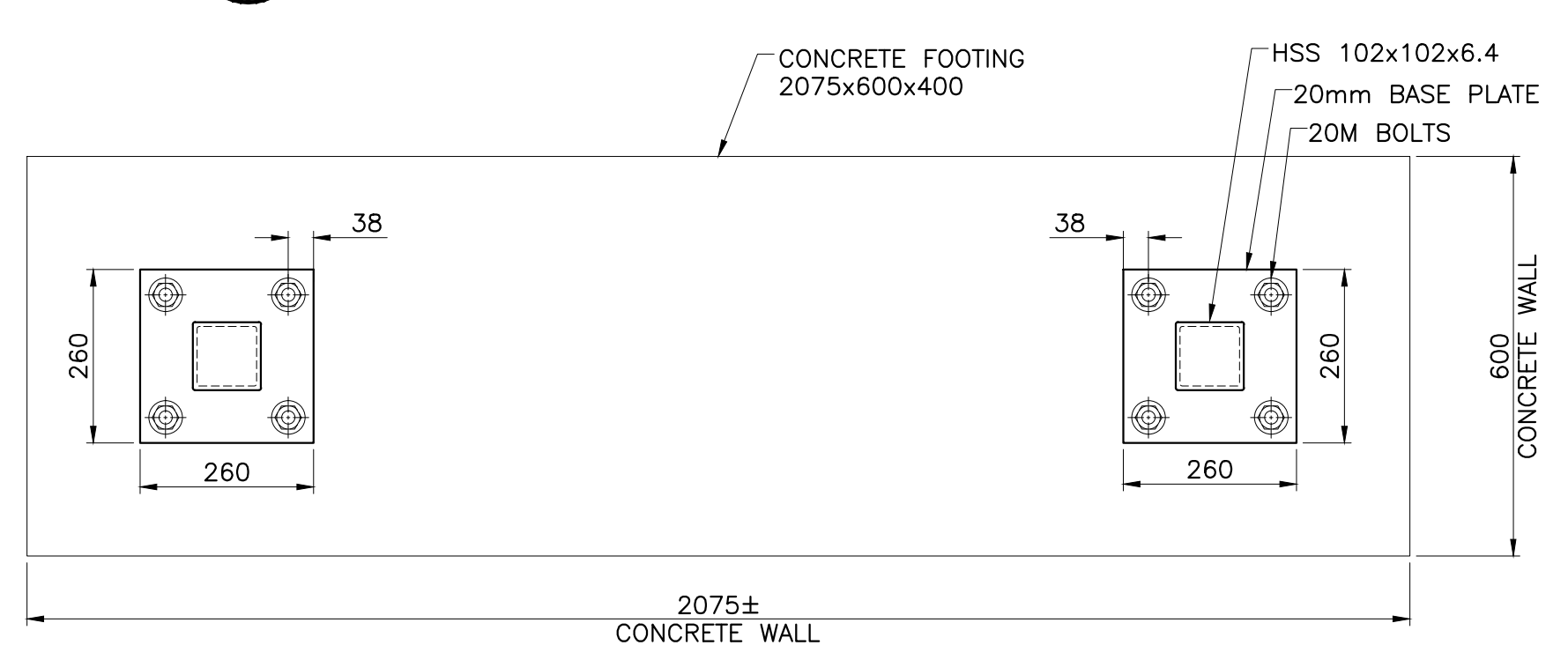
**2 BEAM TO COLUMN CONNECTION AT STAIR**  
S12 1:12.5



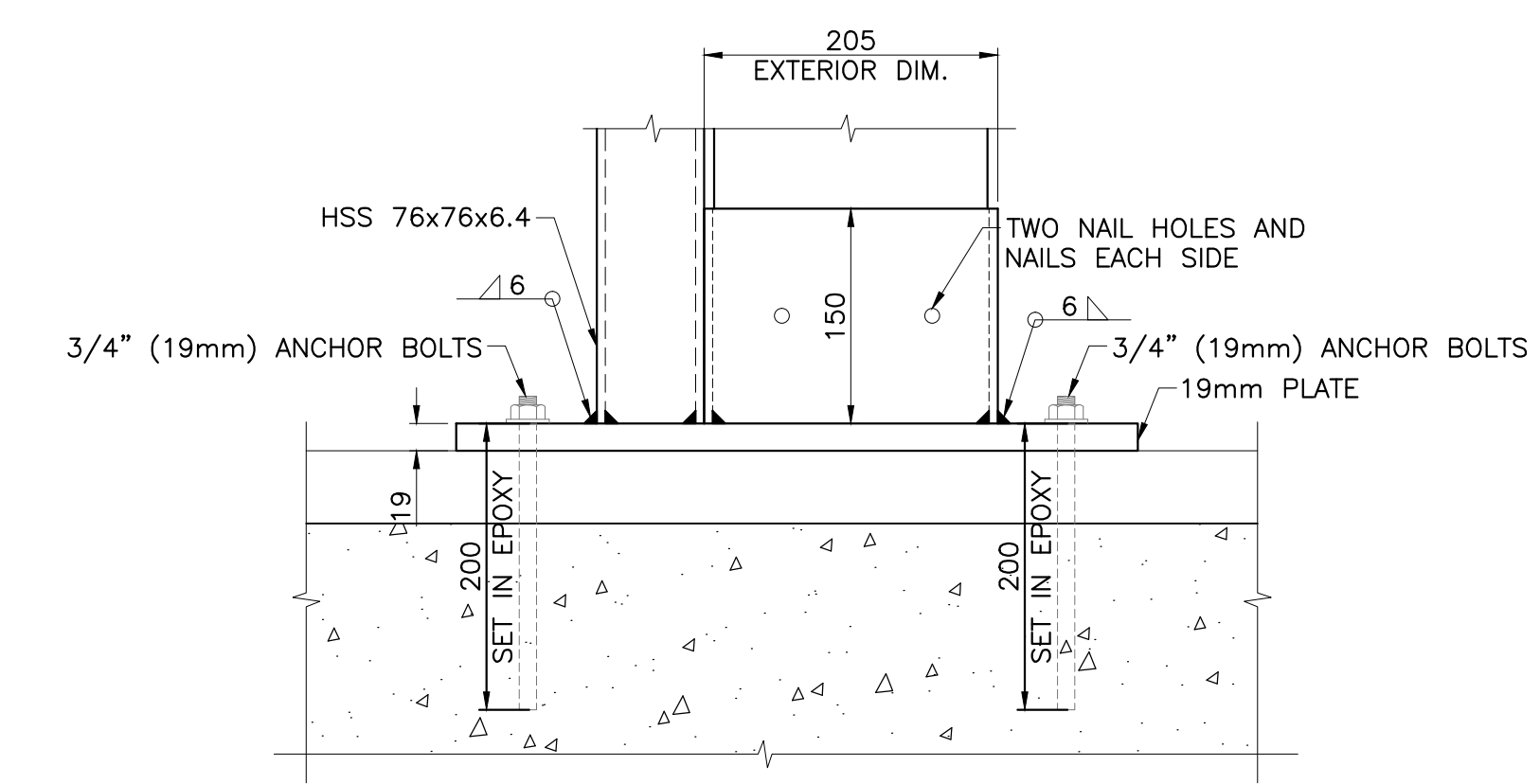
**4 NEW COLUMN FOUNDATION REINFORCING DETAIL**  
S12 1:5



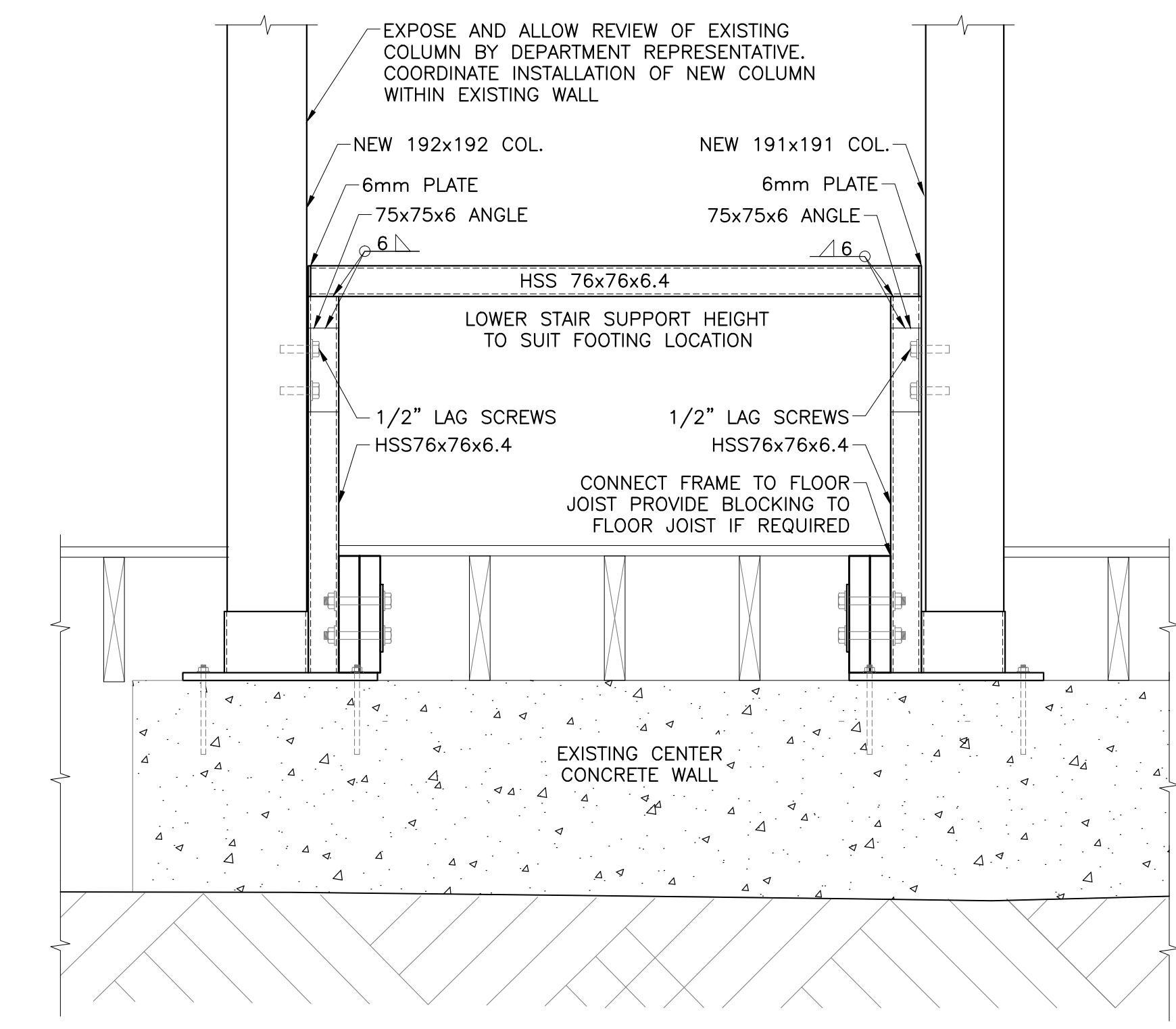
**TOP AND BASE PLATE DETAIL**  
1:5



**4 NEW COLUMN FOUNDATION BASE PLATE DETAIL**  
S12 1:5



**TOP AND BASE PLATE DETAIL**  
1:5



**3 BEAM TO COLUMN CONNECTION AT STAIR**  
S12 1:12.5



Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin

**STAIR SUPPORT DETAILS**

Scale / Echelle  
AS SHOWN

Drawn by / Dessiné par Date  
L.N.GUILBEAU 13/03/17

Designed by / Conçu par Date  
D.A.HUTCWITH 13/03/17

Checked by / Vérifié par Date

Approved by / Approuvé par Date

Project No./No. du projet Client No./No. du Client Sheet No./Feuille No.  
30224201

Drawing Reference No./Numéro de Référence du Dessin  
**S12**

TIME PLOTTED

DATE PLOTTED

PERSON PLOTTING

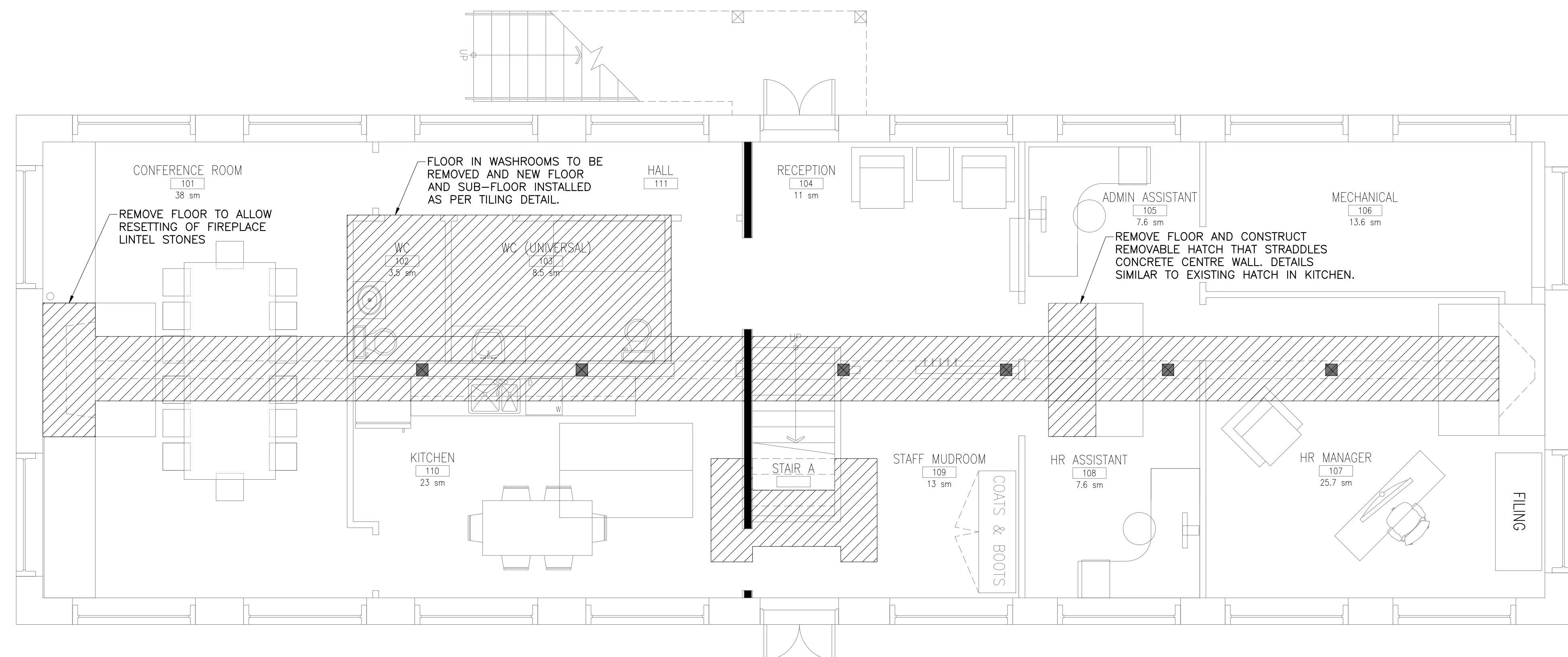
SCALE OF PLOT

VIEW PLOTTED

DRAWING NAME



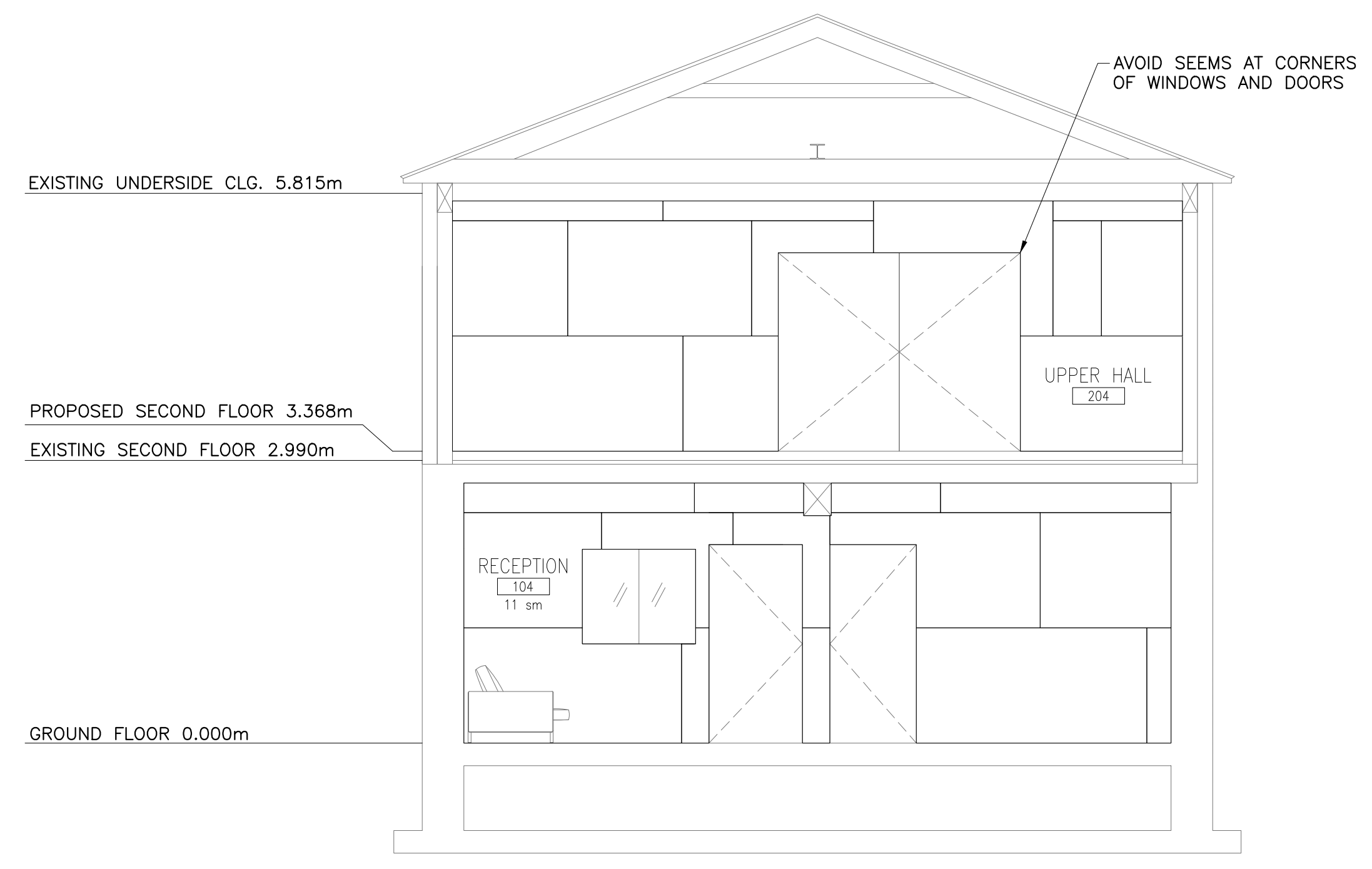
**NOTE:**  
THE EXISTENCE OF ANIMAL EXCREMENT WILL REQUIRE THE CONTROLLED REMOVAL OF THE SUBSTANCES BY THE CONTRACTOR PRIOR TO RESTORATION WORK BEGINNING. PROTECT THE SAFETY OF ALL WORKERS COMING INTO CONTACT WITH THE SUBSTANCES.



LIKELY AREA OF FLOOR REMOVALS.

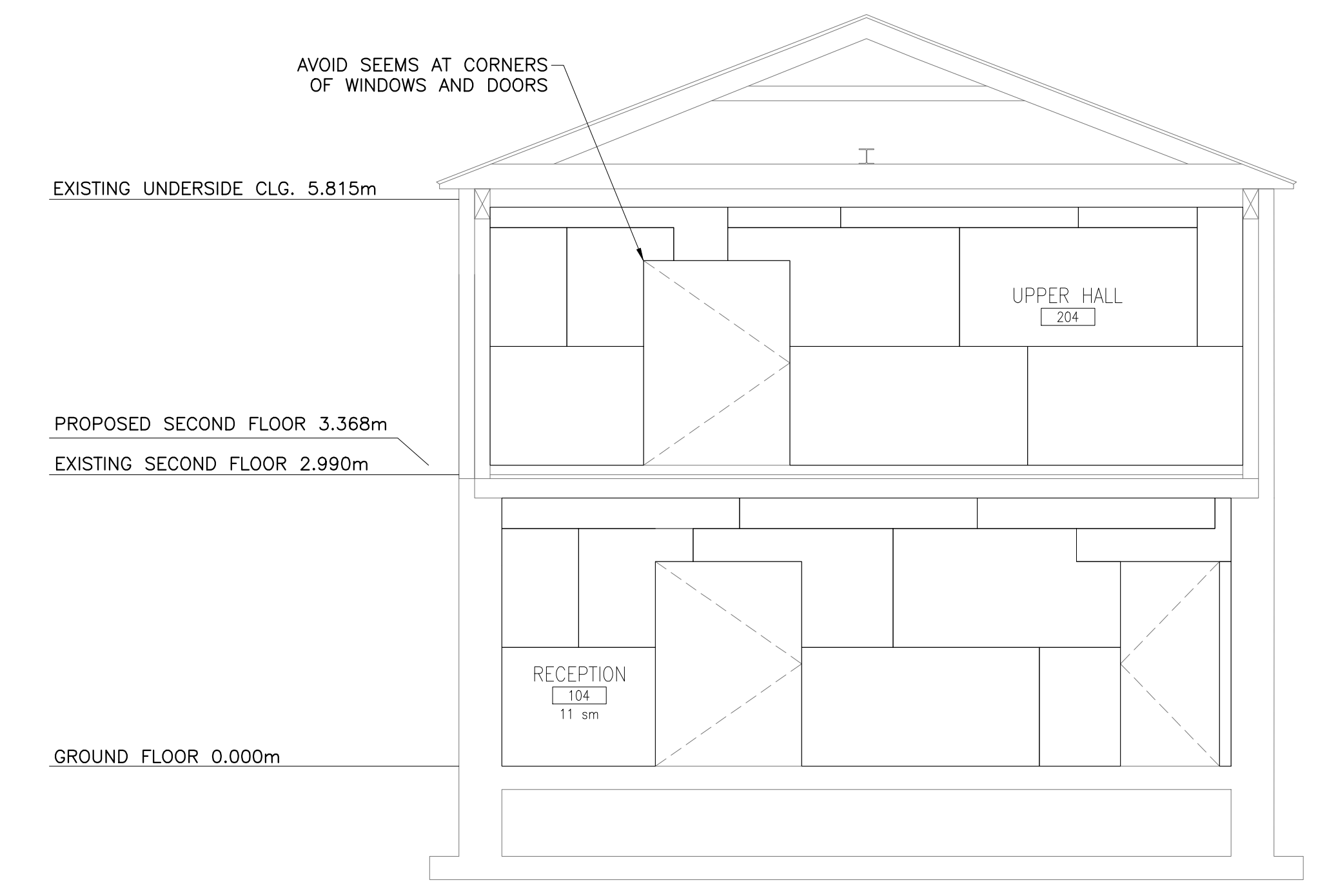
**NOTE:**  
IN ORDER TO COMPLETE THE WORK FLOOR REMOVAL AND REINSTATEMENT TO MATCH THE ORIGINAL FLOOR WILL BE REQUIRED. THE ABOVE DRAWING SHOWS THE LIKELY MINIMUM REMOVALS. THE CONTRACTOR IS TO ASSESS THE WORK AND INCLUDE THE REMOVALS AND REINSTATEMENT TO ACTUALLY COMPLETE THE WORK.

**1**  
S13 1:50 MINIMUM FLOOR REMOVALS PLAN



POTENTIAL LAYOUT FOR PLYWOOD SHEETS

**1**  
S13 1:50 PLYWOOD LAYOUT - LINE 7



POTENTIAL LAYOUT FOR PLYWOOD SHEETS

**1**  
S13 1:50 PLYWOOD LAYOUT - LINE 5

1	23/12/16	ISSUED FOR INTERNAL REVIEW	L.N.G.	D.A.H.
No.	Date	Description	Drawn by Dessine par	Approved Approuvé

Revision / Révision	
A	A Detail number No. du détail
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Project title / Titre du projet

**REHABILITATION OF  
MEN'S BARRACKS BUILDING  
BUTLER'S BARRACKS**

**NIAGARA-ON-THE-LAKE ONTARIO**

Drawing title / Titre du dessin

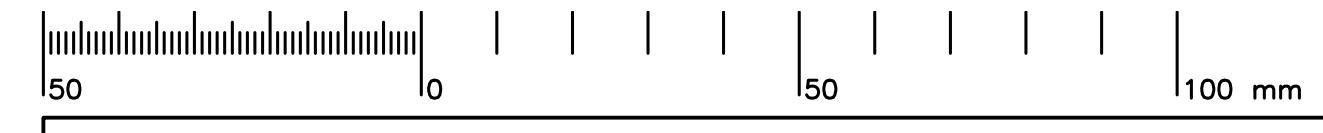
**MINIMUM FLOOR REPLACEMENT  
LAYOUT AND PLYWOOD WALL  
REINFORCEMENT**

Scale / Echelle	AS SHOWN
Drawn by / Dessiné par	Date
L.N.GUILBEAU	13/03/17
Designed by / Conçu par	Date
D.A.HUTCWITH	13/03/17
Checked by / Vérifié par	Date
Approved by / Approuvé par	Date

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		<b>S13</b>
Drawing Reference No./Numéro de Référence du Dessin		

TIME PLOTTED  
DATE PLOTTED  
PERSON PLOTTING  
SCALE OF PLOT  
VIEW PLOTTED  
DRAWING NAME





TIME PLOTTED 13/03/17

DATE PLOTTED 13/03/17

PERSON PLOTTING DV

SCALE OF PLOT 1:1

VIEW PLOTTED AS SHOWN

DRAWING NAME 161-07685 MECH WORKING

GAS FURNACE SCHEDULE											
TAG	MANUFACTURER	MODEL	INPUT BTU/HR	OUTPUT BTU/HR	CFM	E.S.P. "WG	ELECTRIC			WEIGHT LBS	DESCRIPTION
							VOLTAGE	MCA	MOCPC		
GF1	GOODMAN	GMW97 1205DN	120,000	116,400	2,000	0.5	115/1/60	15.4	20	165	MODULATING, DIRECT VENT, ECM MOTOR C/W 7-DAY PROGRAMMABLE THERMOSTAT, BOTTOM RETURN, 20"x25"x1" FILTER AND RACK.
GF2	GOODMAN	GMW97 1205DN	120,000	116,400	2,000	0.5	115/1/60	15.4	20	165	MODULATING, DIRECT VENT, ECM MOTOR C/W 7-DAY PROGRAMMABLE THERMOSTAT, BOTTOM RETURN, 20"x25"x1" FILTER AND RACK.

ENERGY RECOVERY VENTILATOR SCHEDULE												
TAG	UNIT SERVED	MANUFACTURER	MODEL	SUPPLY		EXHAUST		ELECTRIC			WEIGHT LBS	DESCRIPTION
				CFM	E.S.P. "WG	CFM	E.S.P. "WG	VOLTAGE	FLA	HP		
ERV1	GF1	RENEWAIRE	EV200	200	0.2	200	0.2	120/1/60	1.5	0.1	80	C/W BIRD SCREEN, BACK DRAFT DAMPER, INTERLOCKED WITH FURNACE, HANGING BRACKET, RECTANGULAR FLANGE KIT.
ERV2	GF2	RENEWAIRE	EV200	200	0.2	200	0.2	120/1/60	1.5	0.1	80	C/W BIRD SCREEN, BACK DRAFT DAMPER, INTERLOCKED WITH FURNACE, HANGING BRACKET, RECTANGULAR FLANGE KIT.

CONDENSING UNIT SCHEDULE											
TAG	UNIT SERVED	MANUFACTURER	MODEL	NOMINAL TONNAGE	ELECTRIC			SEER	WEIGHT LBS	DESCRIPTION	
					VOLTAGE	MCA	MOCPC				
CU1	GF1	GOODMAN	DSXC18 0601	5	230/1/60	37.2	60	18	300	2 STAGE CONDENSING UNIT C/W MATCHING CASED INDOOR COIL. PLACE UNIT ON MINIMUM 36" BY 36" CONDENSER PADS.	
CU2	GF2	GOODMAN	DSXC18 0601	5	230/1/60	37.2	60	18	300	2 STAGE CONDENSING UNIT C/W MATCHING CASED INDOOR COIL. PLACE UNIT ON MINIMUM 36" BY 36" CONDENSER PADS.	

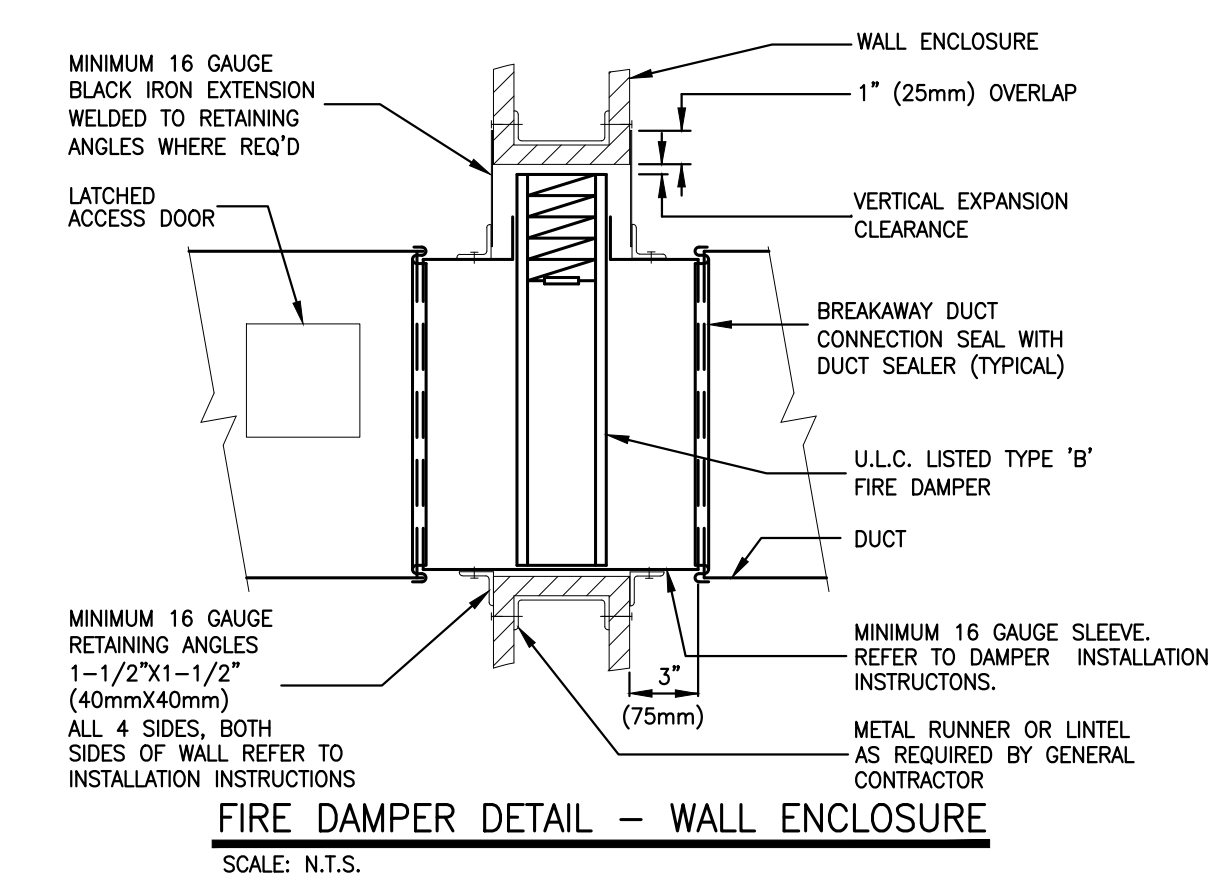
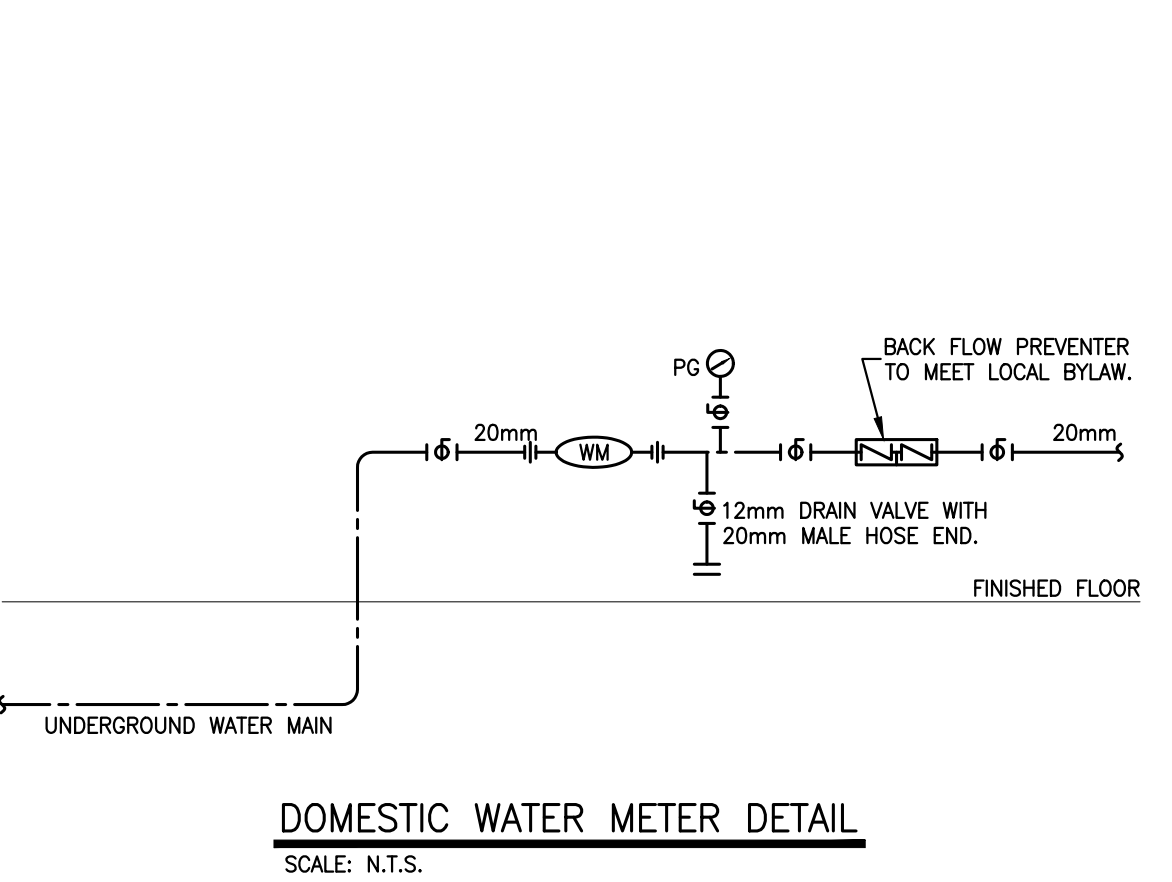
DOMESTIC WATER HEATER SCHEDULE											
TAG	MANUFACTURER	MODEL	KW	STORAGE CAPACITY	RECOVERY AT 100°F RISE	SUPPLY TEMP (°F)	ELECTRIC			WEIGHT LBS	DESCRIPTION
							VOLTAGE	MCA	MOCPC		
HWT	RHEEM	CMR20120	2	19.9 USG	-	120	120/1/60	-	-	61	C/W TEMPERATURE AND PRESSURE RELIEF VALVE PIPED TO 6" A.F.F., HOLDRIE QUICKSTAND SUSPENDED EQUIPMENT PLATFORM MODEL 60-SWHP-WM.

PLUMBING EQUIPMENT SCHEDULE				
TAG	DHW	DCW	DRAIN	DESCRIPTION
TT	-	1/2"	3"	AMERICAN STANDARD 215CA 154 CADET PRO ELONGATED FRONT TOILET, LINED TANK. 4.8 L.P.F. VITREOUS CHINA EVERCLEAN FLOOR MOUNT TOILET WITH BEIMS 2155SSCT OPEN FRONT SEAT LESS COVER.
TTA	-	1/2"	3"	AMERICAN STANDARD 215AA 154 CADET PRO RIGHT HEIGHT ELONGATED FRONT TOILET, LINED TANK. 4.8 L.P.F. EVERCLEAN, WHITE VITREOUS CHINA FLOOR MOUNT TOILET WITH BEIMS 2155SSCT WHITE OPEN FRONT SEAT LESS COVER.
LW	1/2"	1/2"	1-1/2"	AMERICAN STANDARD 9024.001EC DECORUM WALL-HUNG LAVATORY WITH EVERCLEAN, 20"x18" WHITE VITREOUS CHINA, ADA, CENTRE HOLE FOR FAUCET, VANDAL PROOF OPEN GRID STRAINER, TRAP AND CLEAN OUT, WALL CARRIER, DELTA 87111 ONE LEVER HANDLE METERING FAUCET, STRAINER DELTA P.O. 337260-1, WATTS SERIES MM-M1 DOMESTIC MIXING VALVE TO DELIVER DOMESTIC HOT WATER AT 110°F MAXIMUM.
LWA	1/2"	1/2"	1-1/2"	AMERICAN STANDARD 9140.047 WHEELCHAIR USERS LAVATORY, 20"x22" WHITE VITREOUS CHINA, ADA, ONE HOLE FOR FAUCET, OFFSET VANDAL PROOF OPEN GRID STRAINER, TRAP AND CLEAN OUT, INSULATE DRAIN AND SUPPLIES, WALL CARRIER, DELTA 87111 ONE LEVER HANDLE METERING FAUCET, STRAINER DELTA P.O. 337290-1, WATTS SERIES MM-M1 DOMESTIC MIXING VALVE TO DELIVER DOMESTIC HOT WATER AT 110°F MAXIMUM.
KS	1/2"	1/2"	1-1/2"	AMERICAN STANDARD 105B.252211.073, 18 GAUGE, STAINLESS STEEL, ONE HOLE, SINGLE COMPARTMENT SINK 25"X22" WITH AMERICAN STANDARD 4932410 EDGEWATER FULL-DOWN BAR FAUCET. WATTS SERIES MM-M1 DOMESTIC MIXING VALVE TO DELIVER DOMESTIC HOT WATER AT 110°F MAXIMUM.
DW	1/2"	-	-	DISHWASHER SUPPLIED AND INSTALLED BY OTHERS. CONNECT HOT WATER SUPPLY TO KITCHEN SINK HOT WATER LINE C/W SHUTOFF VALVE, AND CONNECT DRAIN TO KITCHEN SINK DRAIN UPSTREAM OF P-TRAP. FOLLOW MANUFACTURER'S INSTRUCTIONS.
FFD	-	-	3"	ZURN ZN-211-BF-P, CAST IRON FUNNEL FLOOR DRAIN WITH 5" ROUND NICKEL BRONZE STRAINER, AND 1/2" TRAP PRIMER CONNECTION.
CO	-	-	-	ZURN ZN-1602 CAST IRON CLEAN OUT WITH 5" NICKEL BRONZE COVER.

FAN SCHEDULE											
TAG	MANUFACTURER	MODEL	CFM	E.S.P. "WG	ELECTRIC			DRIVE	SONES	WEIGHT LBS	DESCRIPTION
					VOLTAGE	MCA/HP	MOCPC				
EF1	FANTECH	FG 6	200	0.40	120/1/60	0.58A	DIRECT	-	10	10	C/W BACK DRAFT DAMPER, DISCONNECT SWITCH, ROOF CAP, BIRD SCREEN.
TF1	PENNBARRY	TF8	100	0.10	120/1/60	0.5	DIRECT	2.2	9.5	9.5	C/W DISCONNECT SWITCH, SPEED CONTROLLER, 120V HEAT/COOL THERMOSTAT.
RH1	BROAN	QS2	300	0.15	120/1/60	2.0A	DIRECT	0.9	-	-	C/W BACK DRAFT DAMPER, DISCONNECT SWITCH, ROOF CAP, BIRD SCREEN, LAMPS.

WALL BOX / ROOF CAP SCHEDULE							
TAG	MANUFACTURER	MODEL	APPLICATION	FRAME	ACCESSORIES	FINISH	DESCRIPTION
WBDE	REVERSOMATIC	DWBL-8	EXHAUST	DOUBLE	-	COLOUR BY OWNER	LEAK PROOF WALL BOX C/W EXTRUDED ALUMINUM GRILLE, BACK DRAFT DAMPER.
WBDO	REVERSOMATIC	DWBL	INTAKE	DOUBLE	-	COLOUR BY OWNER	LEAK PROOF WALL BOX C/W EXTRUDED ALUMINUM GRILLE, BACK DRAFT DAMPER.
RCE	REVERSOMATIC	RCES	EXHAUST	ROOF	-	COLOUR BY OWNER	ROOF CAP C/W BACK DRAFT DAMPER, BIRD SCREEN.

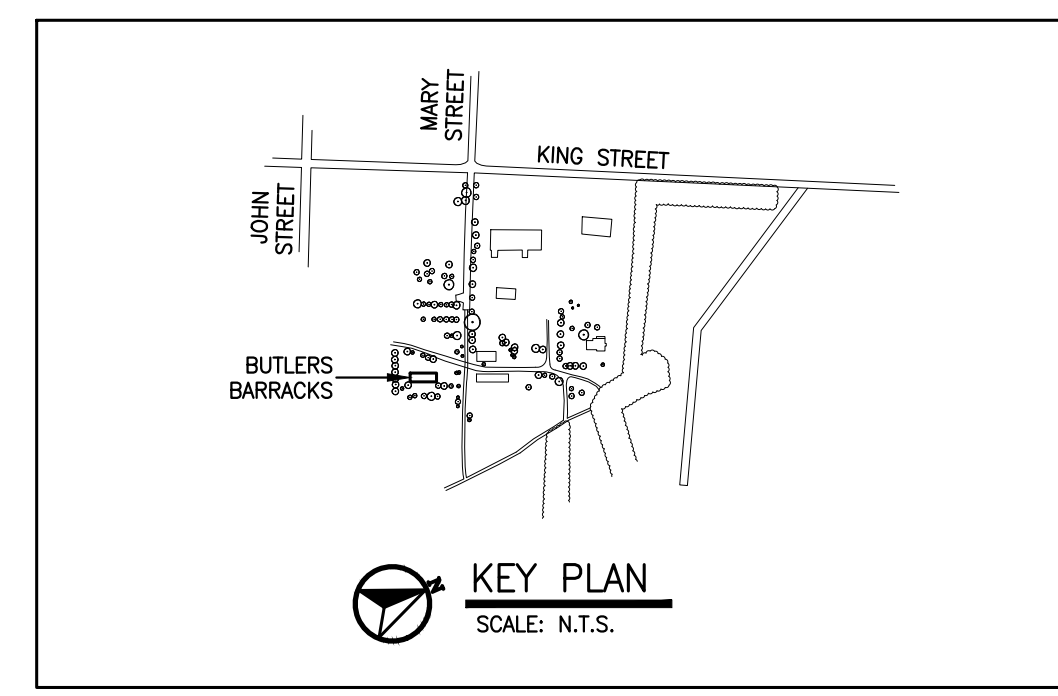
DIFFUSER AND GRILLE SCHEDULE							
TAG	MANUFACTURER	MODEL	APPLICATION	FRAME	ACCESSORIES	FINISH	DESCRIPTION
S1	PRICE	520	SUPPLY	STANDARD	OPPOSED DAMPER	WHITE	STEEL DOUBLE REFLECTION GRILLE
R1	PRICE	80	RETURN	SURFACE	NONE	WHITE	ALUMINUM EGGRATE GRILLE



MECHANICAL LEGEND	
A1   47   150	DIFFUSER OR GRILLE TYPE   VOLUME-CFM   SIZE-mm
⊠	FIRE DAMPER
⊞	SUPPLY AIR
⊞	RETURN/EXHAUST AIR
—	DUCT
—	DUCT
—	ACOUSTICAL INSULATION
⊞	OPEN END DUCT
⊞	MOTORIZED DAMPER
⊞	EXHAUST FAN
⊞	WALL MOUNTED EXHAUST FAN
⊞	T = THERMOSTAT S = SENSOR TAG = EQUIPMENT CONTROLLED
⊞	PNEUMATIC THERMOSTAT TAG = EQUIPMENT CONTROLLED
⊞	BALANCE DAMPER
⊞	TURNING VANES
⊞	DOMESTIC COLD WATER (DCW) ABOVE
⊞	DOMESTIC COLD WATER (DCW) BELOW
⊞	DOMESTIC HOT WATER (DHW) ABOVE
⊞	DOMESTIC HOT WATER (DHW) BELOW
⊞	DOMESTIC HOT WATER RECIRC (DHW) ABOVE
⊞	DOMESTIC HOT WATER RECIRC (DHW) BELOW
⊞	HOT WATER SUPPLY (HWS)
⊞	HOT WATER RETURN (HWR)
⊞	SANITARY (SAN) ABOVE
⊞	SANITARY (SAN) BELOW
⊞	STORM (ST) ABOVE
⊞	STORM (ST) BELOW
⊞	CONDENSATE LINE (C)
⊞	STEAM LINE (S)
⊞	NATURAL GAS (NG) ABOVE
⊞	NATURAL GAS (NG) BELOW
⊞	PROPANE (LP) ABOVE
⊞	PROPANE (LP) BELOW
⊞	FD = FLOOR DRAIN FFD = FUNNEL FLOOR DRAIN
⊞	HUB DRAIN
⊞	ROOF DRAIN
⊞	HOSE BIB CO = CLEAN OUT
⊞	CONTROL VALVE 3 WAY - ELECTRIC
⊞	CONTROL VALVE 3 WAY - PNEUMATIC
⊞	CONTROL VALVE 2 WAY - ELECTRIC
⊞	CONTROL VALVE 2 WAY - PNEUMATIC
⊞	CONTROL VALVE - SOLENOID
⊞	CONTROL VALVE - MOTORIZED
⊞	CONCENTRIC REDUCER
⊞	ECCENTRIC REDUCER
⊞	UNION
⊞	BALL VALVE
⊞	BUTTERFLY VALVE
⊞	CHECK VALVE
⊞	PRESSURE REDUCING VALVE
⊞	BACK FLOW PREVENTER
⊞	STRAINER
⊞	CIRCUIT BALANCING VALVE
⊞	PUMP (SCHEMATIC)
⊞	PIPE DROP OR FROM BELOW
⊞	PIPE RISE OR FROM ABOVE
⊞	PIPE CAP
⊞	PRESSURE GAUGE WITH BALL VALVE
⊞	THERMOMETER
⊞	FS = FLOW SWITCH TS = TEMPERATURE SENSOR - ELECTRONIC
⊞	LWCO - LOW WATER CUT OUT - ELECTRONIC PROBE
⊞	NO NC NORMALLY OPEN NORMALLY CLOSED
⊞	PRV PRESSURE RELIEF VALVE
⊞	GM = NATURAL GAS METER WM = WATER METER
⊞	"TAG" = EQUIPMENT TAG REFERENCED IN SCHEDULES
THE ABOVE SYMBOLS ARE STANDARDS AND MAY APPLY TO THIS PROJECT, REFER TO THE DRAWINGS AND SPECIFICATIONS FOR FURTHER DETAILS ON USE AND APPLICATIONS	

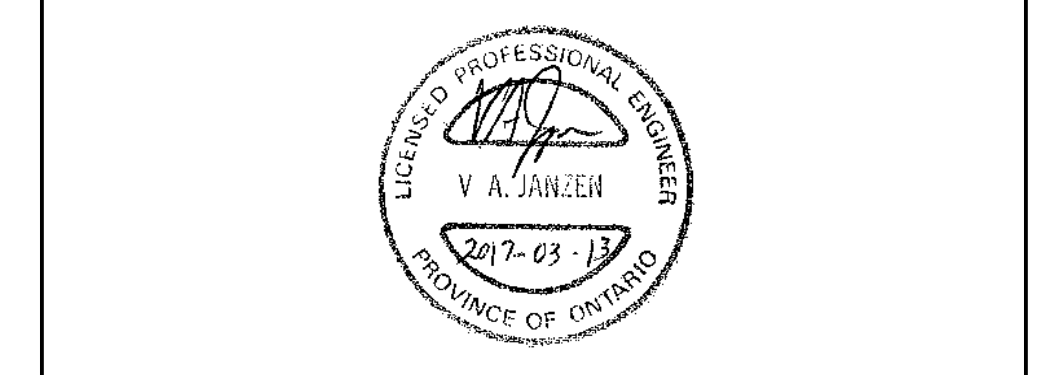
LINE LEGEND	
—	EXISTING EQUIPMENT TO REMAIN.
—	NEW EQUIPMENT TO BE INSTALLED.

MECHANICAL DRAWING LIST	
DRAWING NO.	DRAWING TITLE
M1	LEGENDS, SCHEDULES AND DETAILS
M2	GROUND AND SECOND FLOOR HVAC LAYOUT
M3	ATTIC FLOOR HVAC LAYOUT AND GROUND FLOOR PLUMBING LAYOUT
M4	GROUND AND SECOND FLOOR SPRINKLER LAYOUT



No.	Date	Description	Drawn by	Approved
2	13/03/17	TENDER	DV	VJ
1	23/12/16	INTERNAL REVIEW	DV	VJ
0	27/10/16	REVIEW	DV	VJ

Revision / Révision	
A	Detail number No. du détail
B	Location dwg. no. No. sur dessin
C	Drawing sheet no. No. du dessin



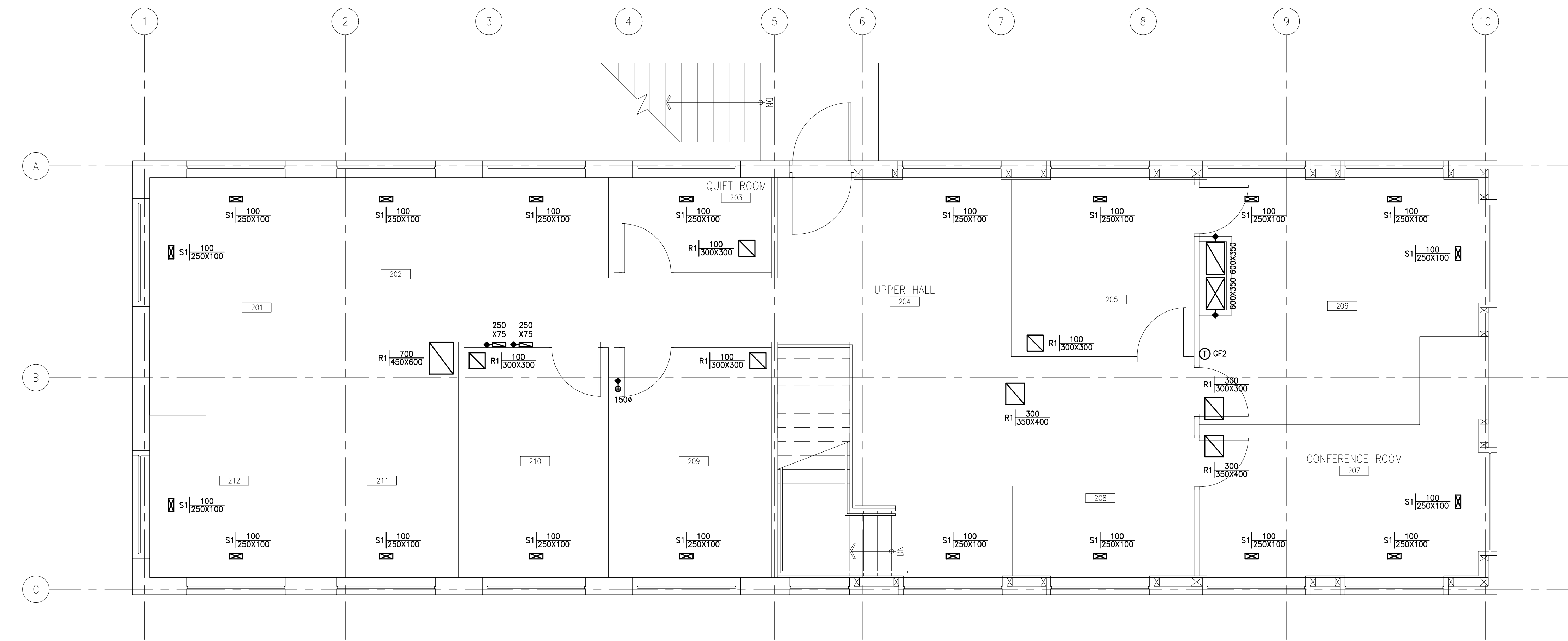
Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO

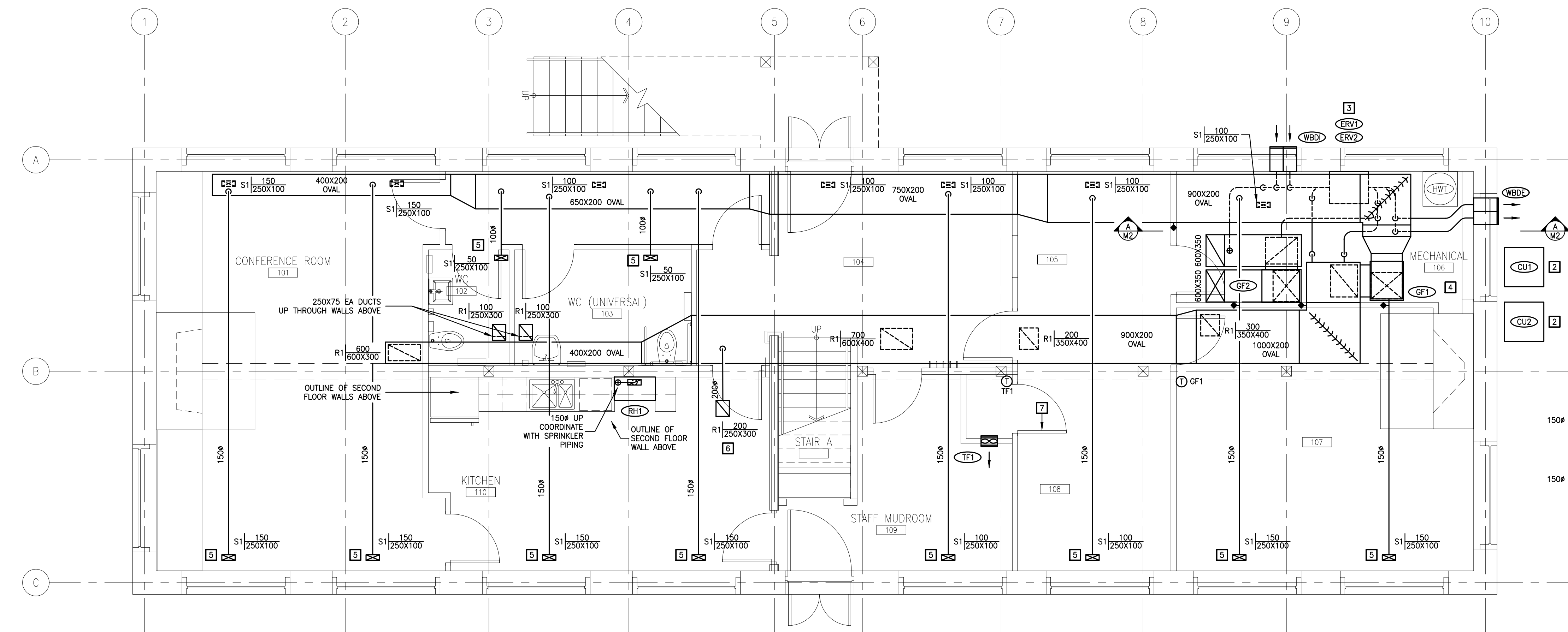
Drawing title / Titre du dessin  
**LEGENDS, SCHEDULES AND DETAILS**

Scale / Echelle		
AS SHOWN		
Drawn by / Dessiné par	Date	
DV	13/03/17	
Designed by / Conçu par	Date	
VJ	13/03/17	
Checked by / Vérifié par	Date	
VJ	13/03/17	
Approved by / Approuvé par	Date	
VJ	13/03/17	
Project No./No. du projet	Client No./No du Client	Sheet No./Feuille No.
30224201		M1
Drawing Reference No./Numéro de Référence du Dessin		





SECOND FLOOR HVAC LAYOUT - REVISED  
SCALE 1:50



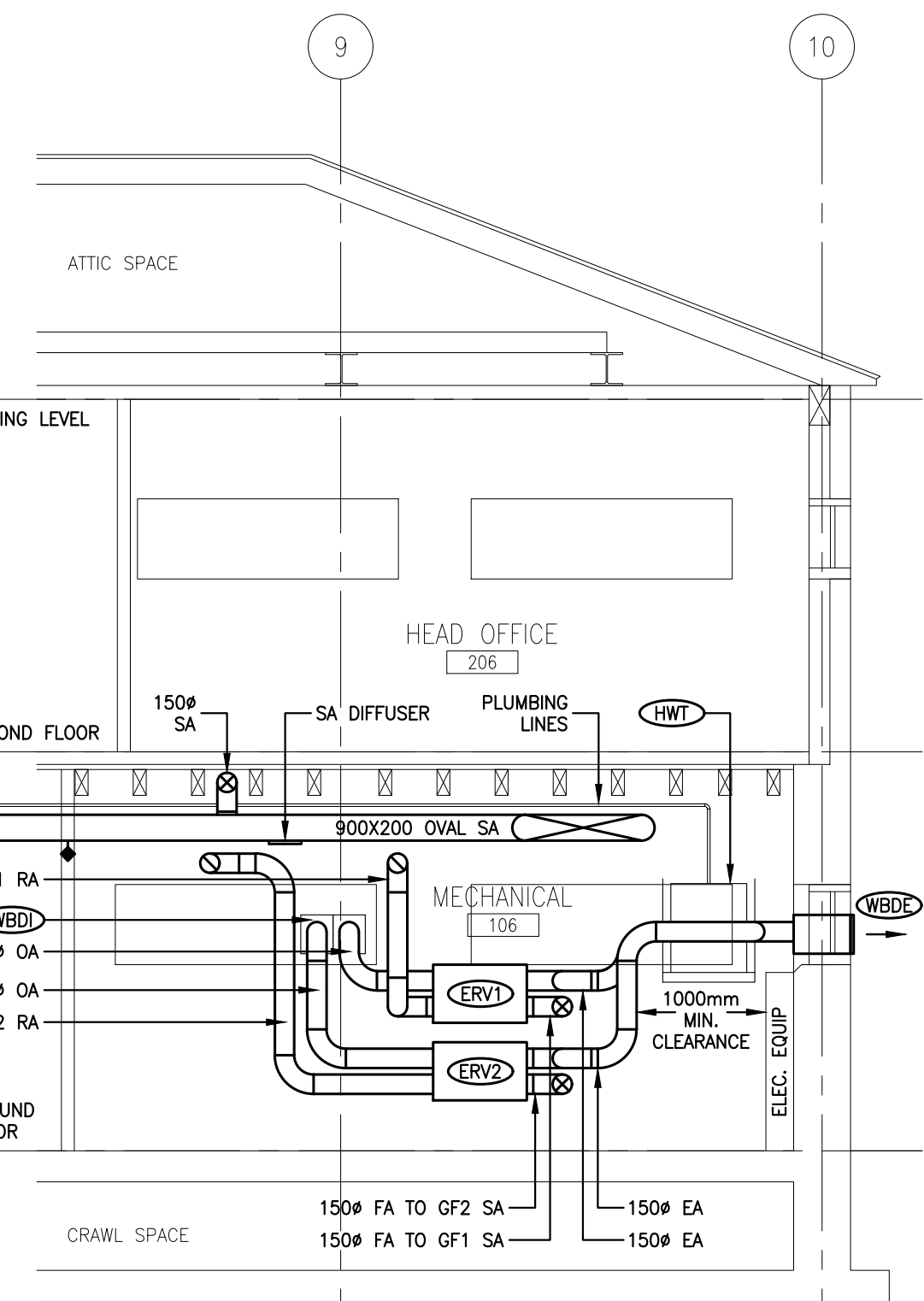
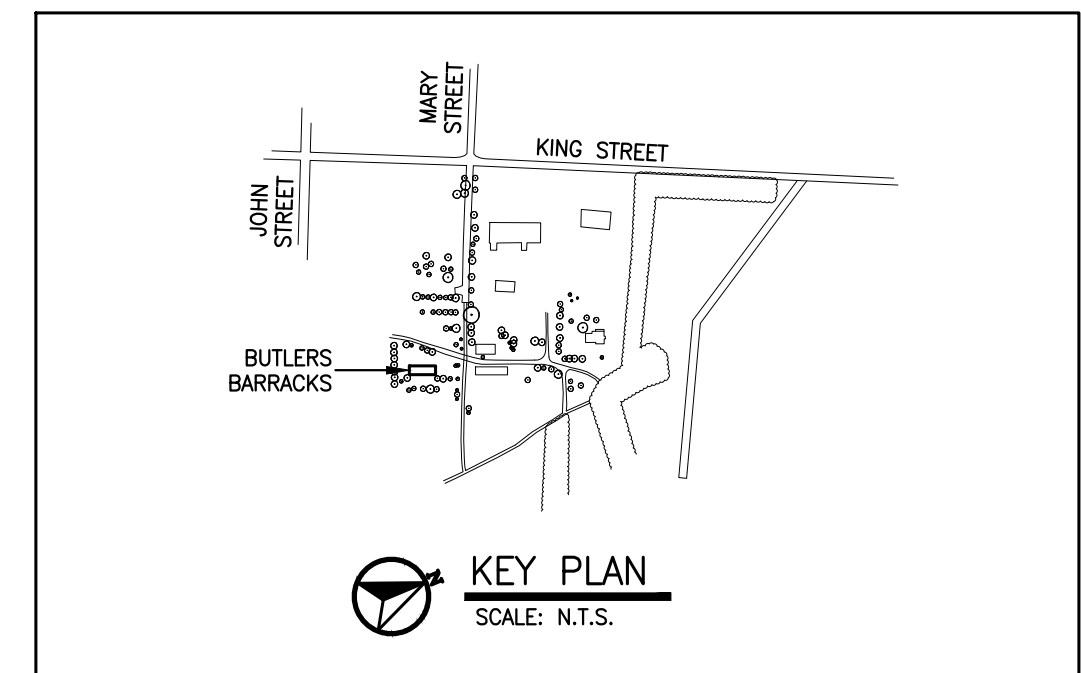
GROUND FLOOR HVAC LAYOUT - REVISED  
SCALE 1:50

**GENERAL DEMOLITION NOTES**

- REMOVE ALL BREACHING, EQUIPMENT, PIPING, STEEL SUPPORTS, CONTROLS, PLUMBING MATERIALS, HOUSE KEEPING PAD, THROUGHOUT (UNLESS OTHERWISE INDICATED).
- THIS DRAWING DOES NOT SHOW DUCTS, PLUMBING, AND EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL VISIT THE SITE AND MAKE THEIR OWN EVALUATION AND ESTIMATE OF THE EXTENT AND MAGNITUDE OF THE WORK INVOLVED PRIOR TO SUBMITTING PROPOSAL.
- TURN OVER TO OWNER: NONE.

**REVISED NOTES**

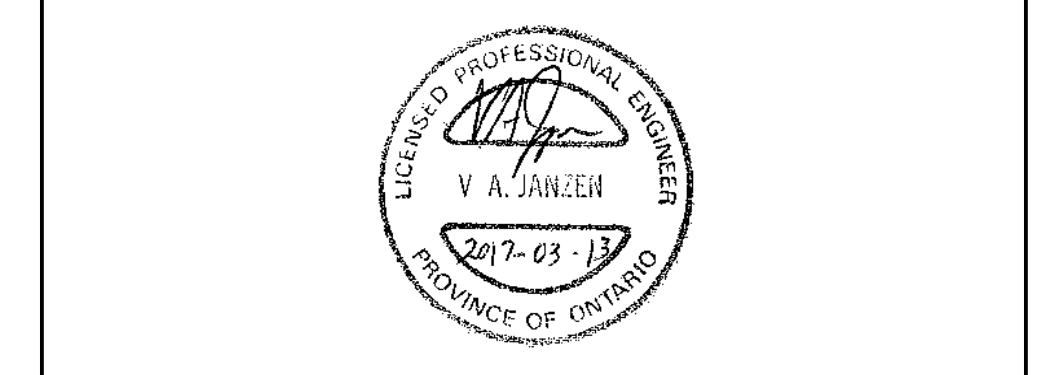
TAG	DESCRIPTION
1	GAS FURNACE C/W BOTTOM RETURN AIR PLENUM AND TOP SUPPLY AIR PLENUM. INSTALL CASED COOLING COIL ON TOP OF UNIT, CONNECT REFRIGERANT LINES TO CONDENSING UNIT. FOLLOW MANUFACTURERS VENTING INSTRUCTIONS. TRAP AND PIPE GRABS TO FLOOR DRAIN.
2	LOCATE CONDENSING UNIT TO MINIMIZE VIEW. SITE VERIFY LOCATION WITH ARCHITECT. MAINTAIN CLEARANCE TO GAS FURNACE VENTS. MOUNT OUTDOORS EQUIPMENT ON STANDARD MINIMUM 50mm +/- 900mm X 900mm CONCRETE PATIO STONES OR EQUAL. SUBMIT SAMPLE FOR REVIEW BY DEPARTMENTAL REPRESENTATIVE. PLACE PATIO STONES ON 150 MM OF COMPACTED GRANULAR A AS PER SECTION 32 11 23 GRANULAR 'A'.
3	LOCATE ENERGY RECOVERY VENTILATORS ON THE EXTERIOR WALL. ERV1 SERVING GROUND FLOOR FURNACE GF1 BELOW ERV2 SERVING SECOND FLOOR GAS FURNACE GF2.
4	DIRECT VENT GAS FURNACES THROUGH SIDE WALL.
5	CENTER NEW SUPPLY DUCT BRANCHES IN JOIST SPACE. SUPPLY DIFFUSER TO BE FLUSH TO THE UNDERSIDE OF THE JOIST LEVEL. TYPICAL.
6	CENTER NEW RETURN DUCT BRANCH IN JOIST SPACE. RETURN GRILLE TO BE FLUSH TO THE UNDERSIDE OF THE JOIST LEVEL.
7	UNDERCUT THE DOOR MIN. 20mm CLEAR FROM FINISHED FLOOR TO THE BOTTOM OF THE DOOR.



SECTION A  
SCALE 1:50

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
2	13/03/17	TENDER	DV	VJ
1	23/12/16	INTERNAL REVIEW	DV	VJ
0	27/10/16	REVIEW	DV	VJ

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A	Detail number No. du détail
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Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

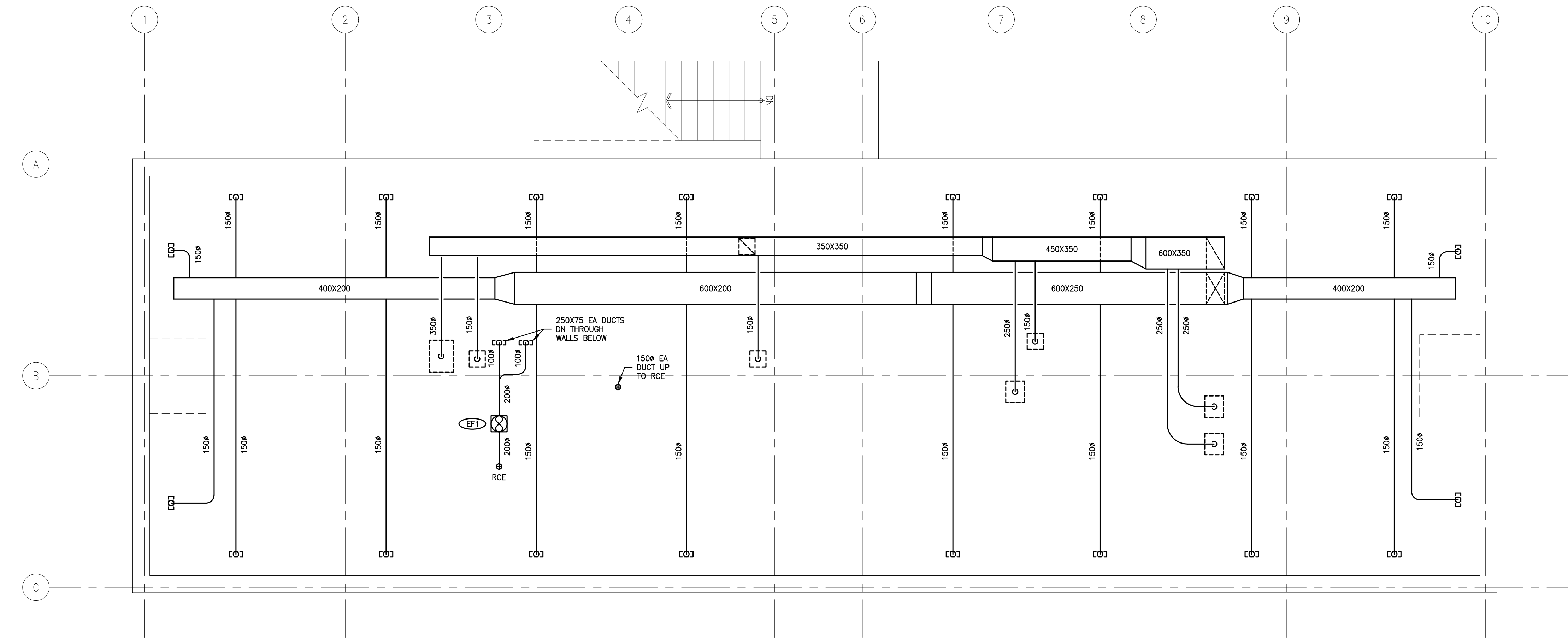
NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin  
**GROUND AND SECOND FLOOR HVAC LAYOUT**

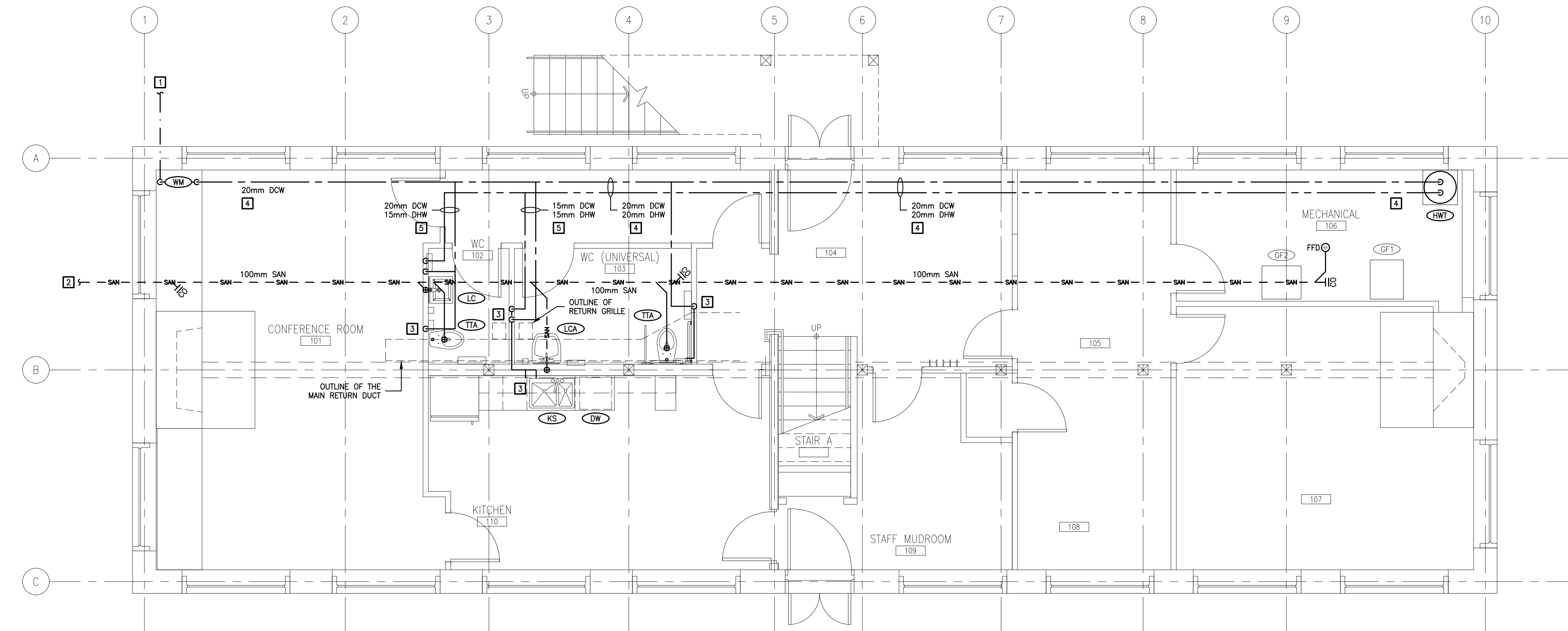
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AS SHOWN		
Drawn by/ Dessiné par	Date	
DV	13/03/17	
Designed by/ Conçu par	Date	
VJ	13/03/17	
Checked by/ Vérifié par	Date	
VJ	13/03/17	
Approved by / Approuvé par	Date	
VJ	13/03/17	
Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		M2
Drawing Reference No./Numéro de Référence du Dessin		

DRAWING NAME 161-07685 MECH WORKING  
VIEW PLOTTED AS SHOWN  
SCALE OF PLOT 1:1  
PERSON PLOTTING DV  
DATE PLOTTED 13/03/17  
TIME PLOTTED





ATTIC FLOOR HVAC LAYOUT - REVISED  
SCALE 1:50



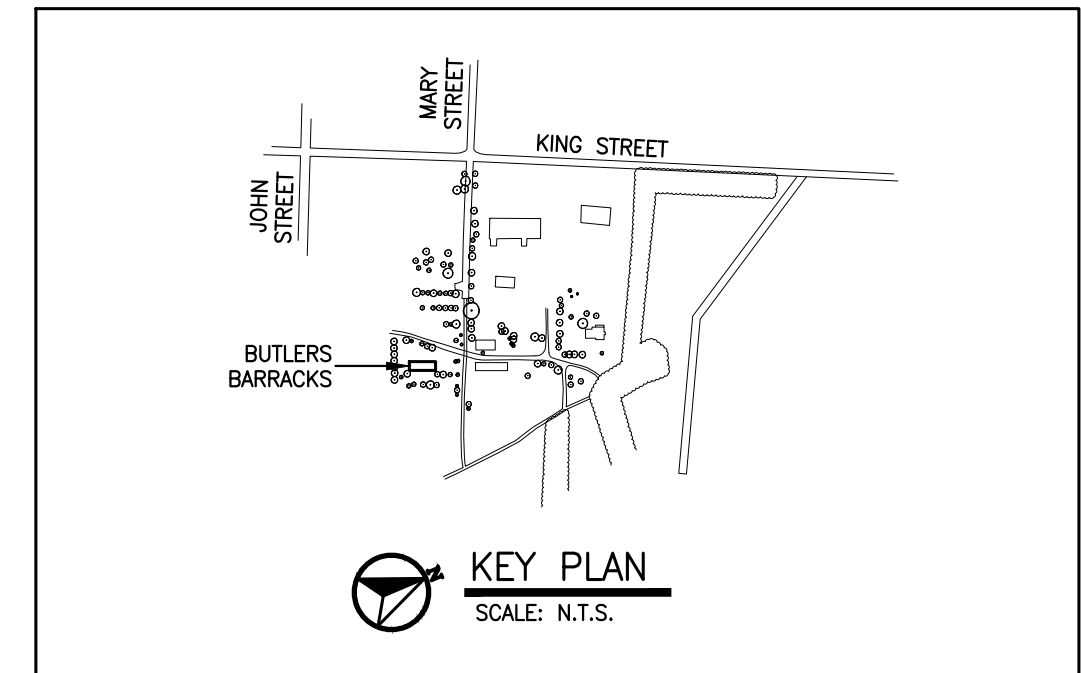
GROUND FLOOR PLUMBING LAYOUT - REVISED  
SCALE 1:50

**GENERAL DEMOLITION NOTES**

1. REMOVE ALL BREACHING, EQUIPMENT, PIPING, STEEL SUPPORTS, CONTROLS, PLUMBING MATERIALS, HOUSE KEEPING PAD, THROUGHOUT (UNLESS OTHERWISE INDICATED).
2. THIS DRAWING DOES NOT SHOW DUCTS, PLUMBING, AND EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL VISIT THE SITE AND MAKE THEIR OWN EVALUATION AND ESTIMATE OF THE EXTENT AND MAGNITUDE OF THE WORK INVOLVED PRIOR TO SUBMITTING PROPOSAL.
3. TURN OVER TO OWNER: NONE.

**REVISED NOTES**

TAG	DESCRIPTION
1	CONNECT TO WATER MAIN 1000mm OUTSIDE OF BUILDING.
2	CONNECT TO SANITARY MAIN 1000mm OUTSIDE OF BUILDING.
3	DOMESTIC PLUMBING LINES TO DROP DOWN IN THE WALL PRIOR TO THE RETURN DUCT, GRILLES AND RUN OVER TO THE FIXTURES.
4	MAIN DOMESTIC PLUMBING LINES TO RUN ABOVE MAIN SUPPLY DUCT. REFER TO SECTION A/AZ.
5	ROUTE DOMESTIC PLUMBING LINES TO FIXTURES WITHIN JOIST SPACE.



No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
2	13/03/17	TENDER	DV	VJ
1	23/12/16	INTERNAL REVIEW	DV	VJ
0	27/10/16	REVIEW	DV	VJ

Revision / Révision	
A	Detail number No. du détail
B	Location dwg. no. No. sur dessin
C	Drawing sheet no. No. du dessin



Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

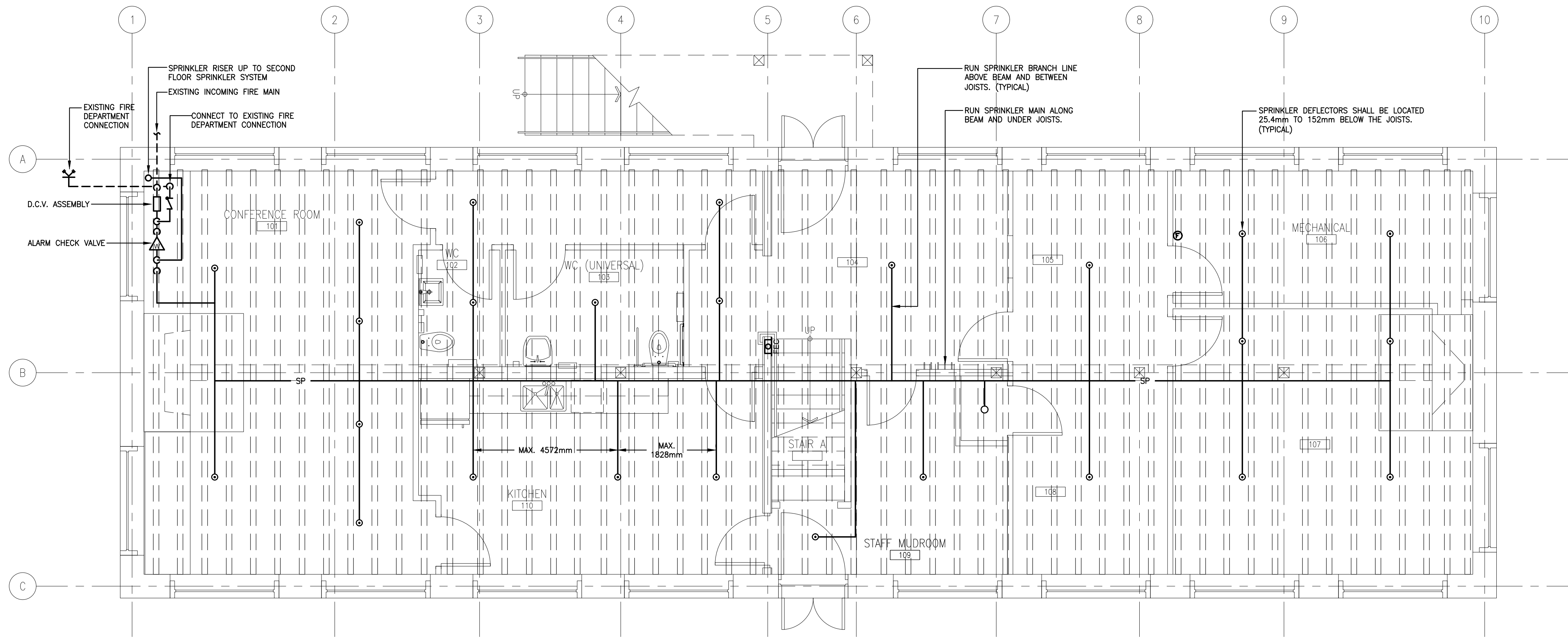
NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin  
**ATTIC FLOOR HVAC AND GROUND FLOOR PLUMBING LAYOUT**

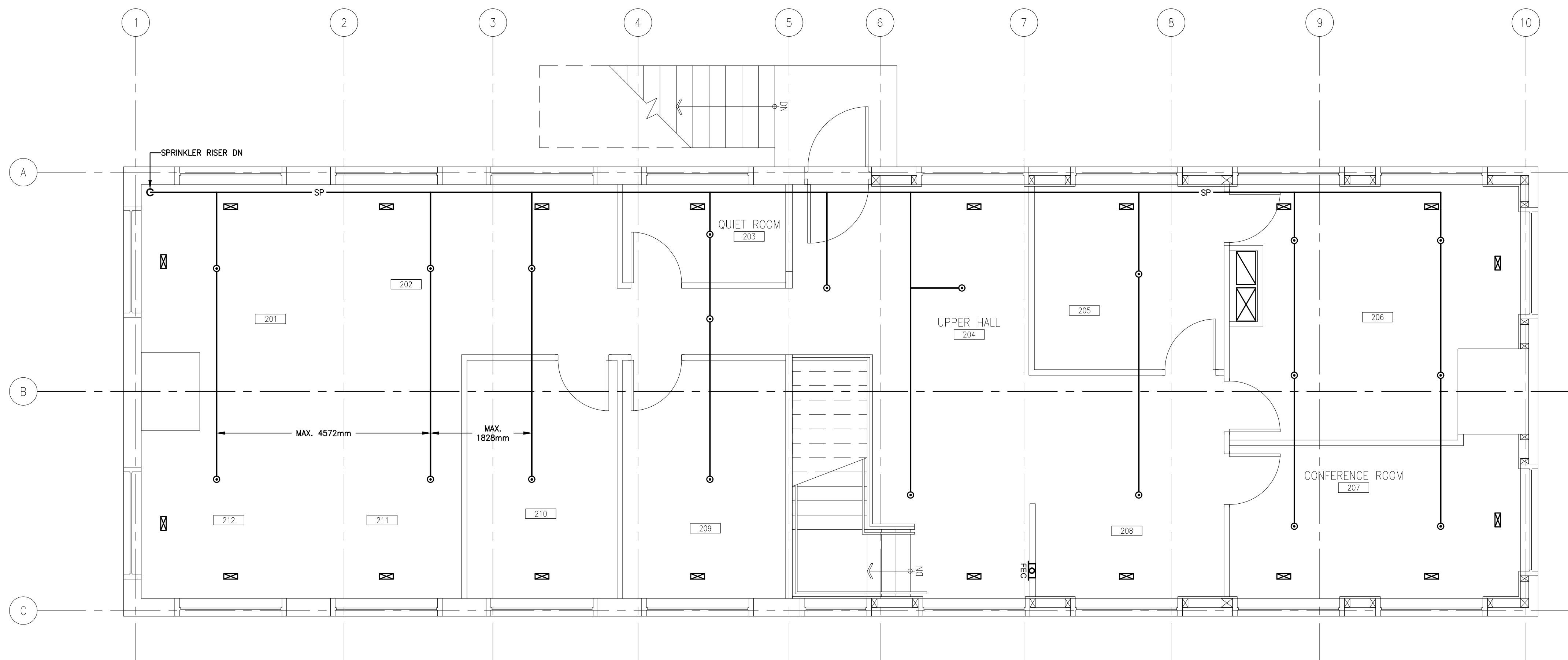
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Drawn by/ Dessiné par	Date	
DV	13/03/17	
Designed by/ Conçu par	Date	
VJ	13/03/17	
Checked by/ Vérifié par	Date	
VJ	13/03/17	
Approved by / Approuvé par	Date	
VJ	13/03/17	
Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		M3
Drawing Reference No./Numéro de Référence du Dessin		

DRAWING NAME 161-07685 MECH WORKING  
VIEW PLOTTED AS SHOWN  
SCALE OF PLOT 1:1  
PERSON PLOTTING DV  
DATE PLOTTED 13/03/17  
TIME PLOTTED





**GROUND FLOOR SPRINKLER LAYOUT - REVISED**  
SCALE 1:50



**SECOND FLOOR SPRINKLER LAYOUT - REVISED**  
SCALE 1:50

**GENERAL REVISED NOTES**

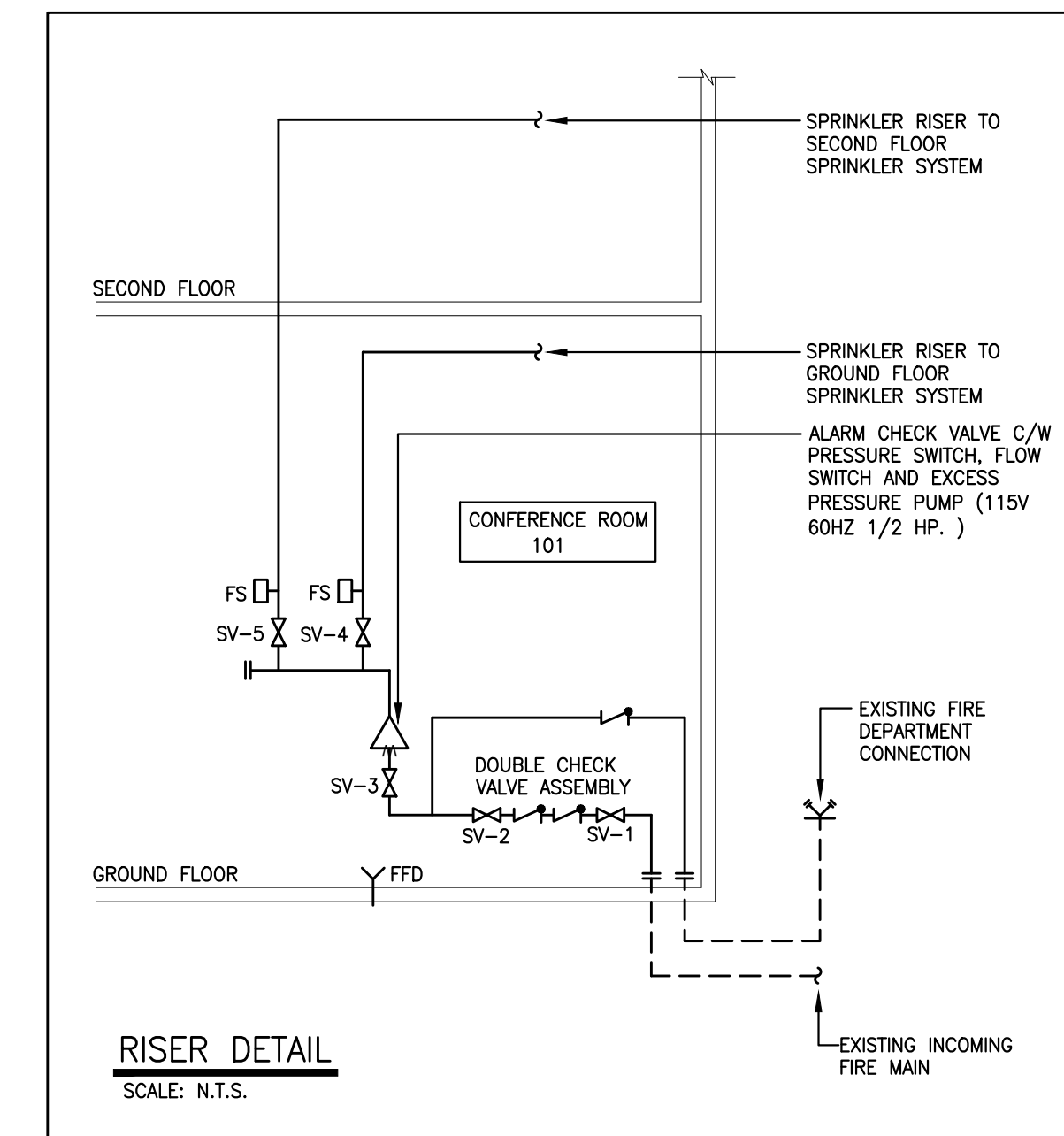
- MECHANICAL CONTRACTOR IS TO VERIFY SIZE AND LOCATION OF EXISTING FIRE MAIN BEFORE CONNECTING INTO EXISTING.
- "EX" PRECEDING TAGS AND LINES, ETC. INDICATES EXISTING EQUIPMENT AND PIPES.

**GENERAL NOTES :**

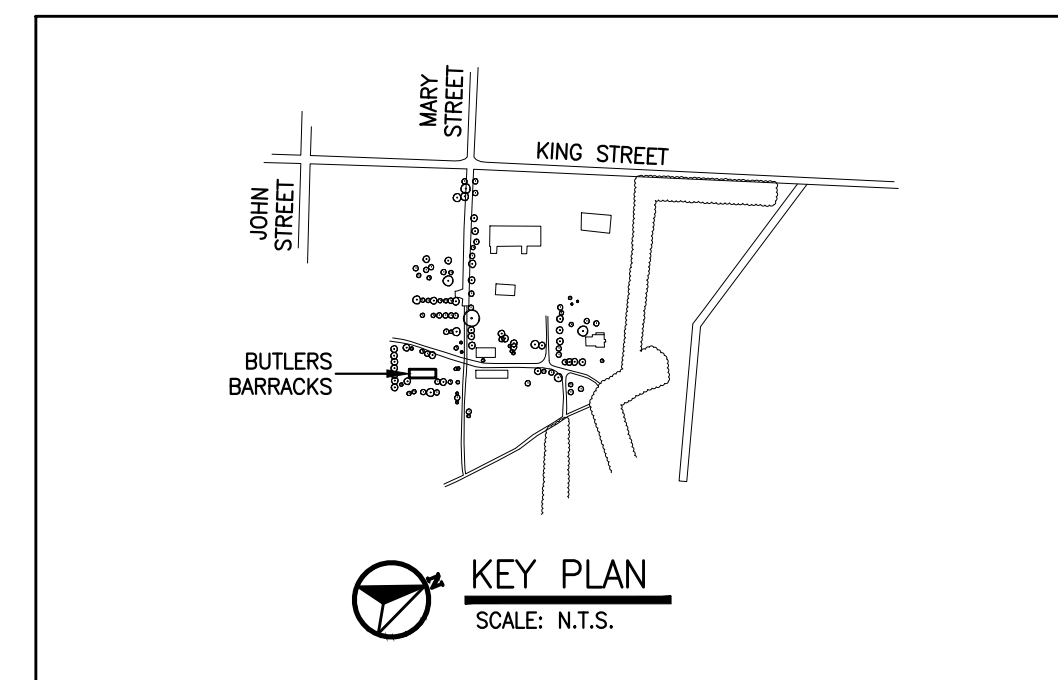
- THIS SPRINKLER DRAWING IS PREPARED TO GIVE THE CONTRACTOR THE DESIGN INTENT AND THE SCOPE OF WORK. THE SUCCESSFUL SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS AND SUBMIT TO THE CITY FIRE DEPARTMENT AND TO THE CONSULTANT FOR APPROVAL. THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY REQUIREMENTS INCLUDING ADDITIONAL SPRINKLER HEADS TO COMPLETE THE DESIGN IN CONFORMANCE WITH THE CODES AND LOCAL AUTHORITY WITH JURISDICTION.
- UPON COMPLETION OF SPRINKLER WORKS, CONTRACTOR SHALL TEST SPRINKLER ZONES TO THE LATEST REQUIREMENTS OF NFPA 13 "INSTALLATION OF SPRINKLER SYSTEM".
- ALL SPRINKLER HEADS SHALL BE STANDARD COVERAGE QUICK RESPONSE TYPE EXCEPT AS NOTED ON DRAWINGS AND SPECIFICATION.
- CONTRACTOR SHALL INSTALL WHEREVER POSSIBLE SPRINKLER PIPING AND HEADS WITHIN CEILINGS, BULKHEADS, ETC. WHERE SPRINKLER HEADS AND PIPING IS REQUIRED TO BE EXPOSED, REVIEW PROPOSED LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL ALLOW COST FOR EXTRA 10 SPRINKLER HEADS FOR FUTURE MODIFICATIONS ON ARCHITECTURAL LAYOUTS AFTER TENDER CLOSING.
- CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLER HEADS IN ALL MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS AND EXPOSED CEILING AREAS TO SUIT EQUIPMENT AND/OR DUCTWORK LAYOUT AS PER REQUIREMENTS OF LATEST NFPA-13 STANDARD.
- CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LOCATIONS IN AREAS WITH SUSPENDED CEILING WITH THE LOCATION OF LIGHTING, GRILLES, DIFFUSERS, AND SIMILAR ITEMS RECESSED IN OR SURFACE MOUNTED ON THE CEILING.

**FIRE PROTECTION LEGEND**

ITEM:	DESCRIPTION:
SP	SPRINKLER PIPE
SV-X	SUPERVISED VALVE
FS	FLOW SWITCH
⊙	STANDARD COVERAGE Q/R PENDENT SPRINKLER HEAD
○	STANDARD COVERAGE S/R UPRIGHT SPRINKLER
FD	FIRE DEPARTMENT CONNECTION
FEC	RECESSED FIRE EXTINGUISHER CABINET (WITH EXTINGUISHER MODEL 3A10BC)
⊙	FIRE EXTINGUISHER (MODEL 3A10BC) WITH WALL BRACKET
△	WET ALARM CHECK VALVE C/W EXCESS PRESSURE PUMP



**RISER DETAIL**  
SCALE: N.T.S.



**KEY PLAN**  
SCALE: N.T.S.

No.	Date	Description	Drawn by	Approved
2	13/03/17	TENDER	HC	VJ
1	23/12/16	INTERNAL REVIEW	HC	VJ
0	27/10/16	REVIEW	HC	VJ

Revision / Révision				
A	Detail number	No. du détail	A	
B	Location dwg. no.	No. sur dessin	B	C
C	Drawing sheet no.	No. du dessin		



Project title / Titre du projet

**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin

**GROUND AND SECOND FLOOR SPRINKLER LAYOUT**

Scale / Echelle

AS SHOWN

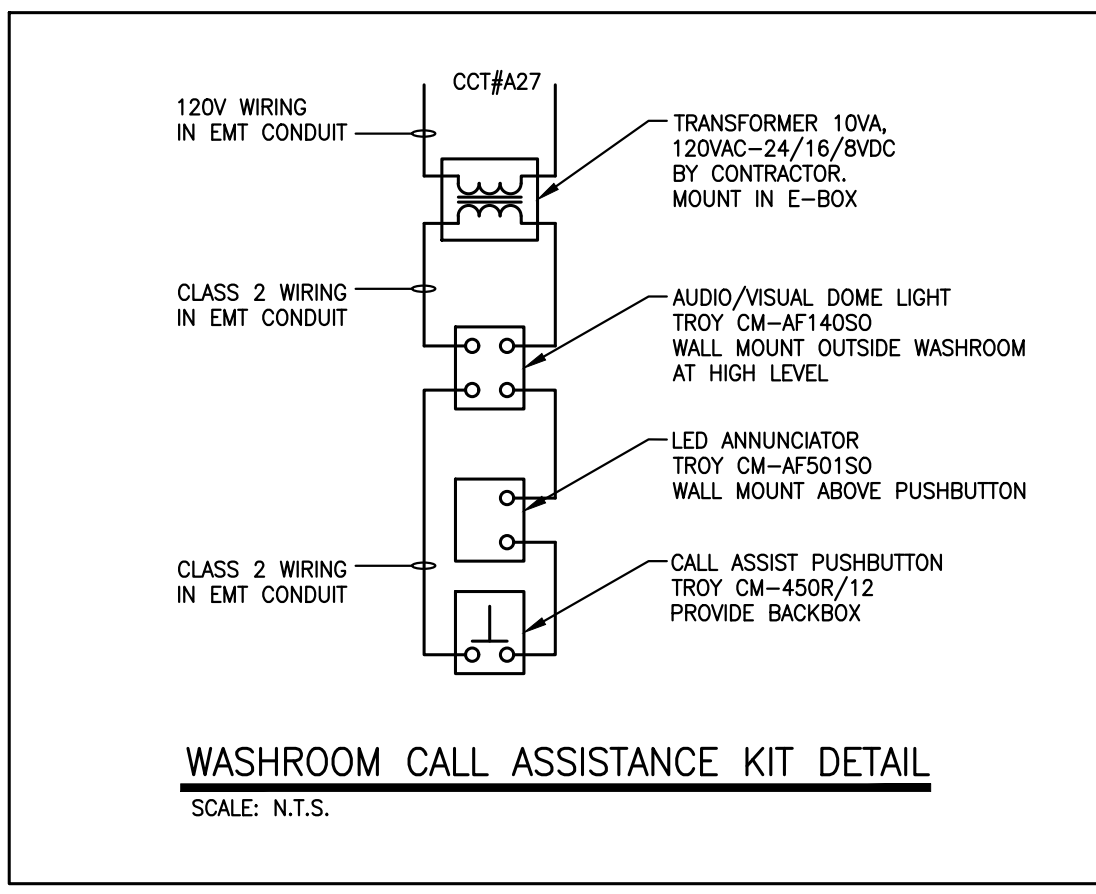
Drawn by/ Dessiné par	Date
HC	13/03/17
Designed by/ Conçu par	Date
HC	13/03/17
Checked by/ Vérifié par	Date
VJ	13/03/17
Approved by / Approuvé par	Date
VJ	13/03/17

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		M4

Drawing Reference No./Numéro de Référence du Dessin

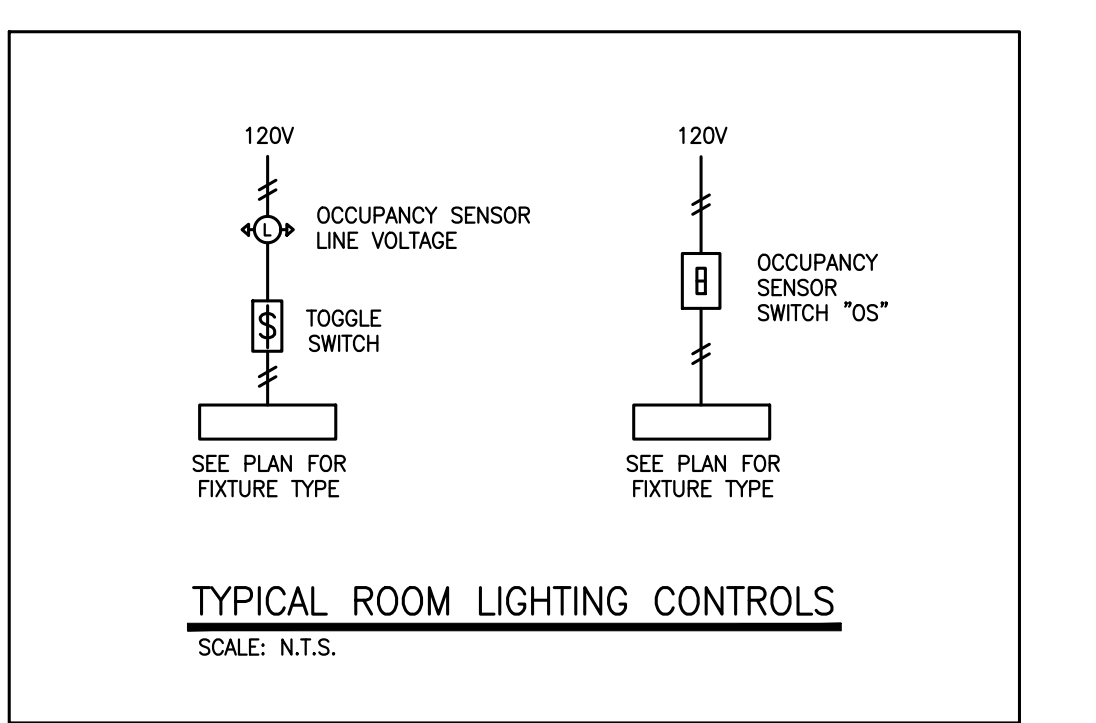
M4





MECHANICAL EQUIPMENT SCHEDULE															
DETAILS				EQUIPMENT											
TAG	DESCRIPTION	SERVES	UNIT LOCATION	HORSEPOWER	KILOWATTS	FULL LOAD AMPS	MINIMUM CIRCUIT AMPS	VOLTAGE	PHASE	TYPE	STARTER	ACCESSORIES	ISOLATING DEVICE	BREAKER/FUSE	REMOTE CONTROL
GF1	GAS FURNACE	GROUND FLOOR	MECHANICAL ROOM	-	-	15.4	120	1	-	M	-	-	-	20A1P A39	M
GF2	GAS FURNACE	SECOND FLOOR	MECHANICAL ROOM	-	-	15.4	120	1	-	M	-	-	-	20A1P A41	M
CU1	CONDENSING UNIT	GROUND FLOOR	EXTERIOR MOUNTED	-	-	37.2	230	1	-	M	-	-	-	60A2P A38/A40	M
CU2	CONDENSING UNIT	SECOND FLOOR	EXTERIOR MOUNTED	-	-	37.2	230	1	-	M	-	-	-	60A2P A42/A44	M
ERV1	ENERGY RECOVERY UNIT	GROUND FLOOR EXHAUST	MECHANICAL ROOM	-	1.5	-	120	1	-	M	-	-	-	15A1P A43	GF1
ERV2	ENERGY RECOVERY UNIT	SECOND FLOOR EXHAUST	MECHANICAL ROOM	-	1.5	-	120	1	-	M	-	-	-	15A1P A45	GF2
HWT	DOM. HOT WATER TANK	BARRACKS BUILDING	MECHANICAL ROOM	-	-	-	-	-	-	M	-	-	-	15A1P A46	-
EF1	WASHROOM EXH FAN	GROUND FLR WASHROOMS	ATTIC SPACE	-	-	0.58	120	1	-	M	-	-	-	15A1P A1	-
TF1	TRANSFER FAN	HUB ROOM	HUB ROOM	-	-	0.5	120	1	-	M	-	-	-	15A1P A31	M
RH1	RANGE HOOD	ELECT. RANGE	KITCHEN	-	-	-	-	-	-	M	-	-	-	15A1P A21	-

ELECTRICAL LEGEND									
LIGHTING									
[Symbol]	FLUORESCENT LIGHTING FIXTURE RECESS/SURFACE MOUNTED								
[Symbol]	STRIP FLUORESCENT LIGHTING FIXTURE								
[Symbol]	CEILING MOUNTED LIGHTING FIXTURE								
[Symbol]	WALL MOUNTED LIGHTING FIXTURE								
[Symbol]	TRACK LIGHTING FIXTURE								
[Symbol]	OCCUPANCY SENSOR 180°								
[Symbol]	OCCUPANCY SENSOR 360°								
[Symbol]	EXIT LIGHT - NUMBER INDICATES NUMBER OF FACES								
[Symbol]	12 VOLT COMBINATION EXIT/EMERGENCY LIGHT WITH TWO EMERGENCY HEADS - NUMBER INDICATES NUMBER OF FACES								
[Symbol]	24 VOLT EMERGENCY BATTERY PACK - NUMBER INDICATES UNIT NUMBER								
[Symbol]	24 VOLT EMERGENCY BATTERY PACK WITH TWO EMERGENCY HEADS - NUMBER INDICATES UNIT NUMBER								
[Symbol]	SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE NUMBER OF HEADS AS SHOWN								
RECEPTACLES									
[Symbol]	DUPLEX RECEPTACLE, 15A/125V - LOW MOUNTING HEIGHT								
[Symbol]	DUPLEX RECEPTACLE, 15A/125V - SPLIT CIRCUIT TYPE								
[Symbol]	DUPLEX RECEPTACLE - SPECIAL MOUNTING HEIGHT								
[Symbol]	DUPLEX RECEPTACLE, 15A/125V - ISOLATED GROUND TYPE								
[Symbol]	DUPLEX RECEPTACLE, 15A/125V - GROUND FAULT TYPE								
[Symbol]	DUPLEX RECEPTACLES, 15A/125V - TWO IN ONE BOX								
[Symbol]	DUPLEX RECEPTACLE, 15A/20A/125V T-SLOT								
[Symbol]	SPECIAL RATED RECEPTACLE, AMP & VOLT RATING INDICATED								
[Symbol]	R = RANGE OUTLET 12" = DRIVER OUTLET TW = TWIST LOCK								
POWER									
[Symbol]	ELECTRICAL PANEL, SURFACE/FLUSH MTD., SEE SCHEDULE FOR DETAILS								
[Symbol]	JUNCTION BOX								
[Symbol]	TOGGLE SWITCH STROKES = NUMBER GANGED '3' = 3 WAY '4' = 4 WAY '0' = 1500W DIMMER 'K' = KEY OPERATED 'OS' = OCCUPANCY SENSOR SWITCH								
[Symbol]	PUSHBUTTON/SELECTOR SWITCH STATION FOR PURPOSE INDICATED								
[Symbol]	HAND DRYER								
[Symbol]	TIME SWITCH								
[Symbol]	ELECTRIC MOTOR, HP AS NOTED 'EF' = EXHAUST FAN 'KH' = KITCHEN HOOD 'MD' = MOTORIZED DAMPER								
[Symbol]	DISCONNECT SWITCH, FUSIBLE/UNFUSIBLE AS NOTED								
[Symbol]	AC MAGNETIC CONTACTOR								
[Symbol]	MANUAL MOTOR STARTER 'M' = SINGLE SPEED '2SP' = TWO SPEED								
[Symbol]	THERMOSTAT TAG-EQUIPMENT CONTROLLED								
FIRE ALARM									
[Symbol]	FIRE ALARM MANUAL PULL STATION								
[Symbol]	FIRE ALARM SIGNAL BELL 'TR' = TROUBLE BELL								
[Symbol]	FIRE ALARM SIGNAL HORN 'M' = MINI HORN								
[Symbol]	COMBINATION FIRE ALARM SIGNAL HORN AND STROBE LIGHT								
[Symbol]	SMOKE DETECTOR								
[Symbol]	RATE-OF-RISE HEAT DETECTOR								
[Symbol]	FIXED TEMPERATURE HEAT DETECTOR (135 deg.) '190' = 190 deg.								
[Symbol]	COMBINATION HEAT AND SMOKE DETECTOR								
[Symbol]	ADDRESSABLE MODULE								
[Symbol]	ISOLATOR MODULE								
[Symbol]	MAGNETIC DOOR RELEASE								
[Symbol]	END OF LINE DEVICE								
[Symbol]	FIRE ANNUNCIATOR PANEL								
[Symbol]	FIRE ALARM PANEL								
COMMUNICATIONS									
[Symbol]	TELEPHONE OUTLET, PROVIDE 1104 DEVICE BOX AND CONDUIT TO GROUND FLOOR CEILING SPACE. 'RW' = RACEWAY MOUNTED								
[Symbol]	TELEVISION ANTENNA OUTLET								
[Symbol]	COMMUNICATIONS OUTLET, PROVIDE 1104 DEVICE BOX AND CONDUIT TO GROUND FLOOR CEILING SPACE. 'RW' = INDICATES RACEWAY MOUNTED								
[Symbol]	DATA / TELEPHONE OUTLET, PROVIDE 1104 DEVICE BOX AND CONDUIT TO GROUND FLOOR CEILING SPACE. 'RW' = RACEWAY MOUNTED								
[Symbol]	VIDEO SURVEILLANCE CAMERA								
[Symbol]	SECURITY SYSTEM PANEL - 1" EMT TO CABLE TRAY								
[Symbol]	SECURITY SYSTEM KEYPAD - BACKBOX C/W 1/2" EMT TO CABLE TRAY								
[Symbol]	SECURITY SYSTEM AUDIBLE ALARM/BUZZER								
[Symbol]	SECURITY SYSTEM DOOR CONTACT - 1/2" EMT TO CABLE TRAY								



PANEL A (NEW) 225A 208/120V 3 PHASE 4 WIRE									
SURFACE MOUNTED					ALL BREAKERS 146AC MIN.				
WATTS	BREAKER	CIRCUIT	WATTS	DESCRIPTION	WATTS	BREAKER	CIRCUIT	WATTS	DESCRIPTION
826	15	1	2	15	956	15	1	2	15
956	15	3	4	15	960	15	3	4	15
15	5	6	15	300	201	15	6	15	300
400	15	7	8	20	200	15	7	8	20
200	15	9	10	15	300	15	9	10	15
400	15	11	12	15	400	15	11	12	15
200	15	13	14	20	200	15	13	14	20
500	15	15	16	15	400	15	15	16	15
400	15	17	18	15	400	15	17	18	15
400	15	19	20	15	400	15	19	20	15
300	15	21	22	15	1000	15	21	22	15
100	20	23	24	20	100	20	23	24	20
1200	15	25	26	15	1000	15	25	26	15
200	15	27	28	15	200	15	27	28	15
200	15	29	30	20	200	15	29	30	20
360	15	31	32	20	200	15	31	32	20
200	20	33	34	20	400	15	33	34	20
200	15	35	36	15	500	15	35	36	15
100	15	37	38	60A	4278	15	37	38	60A
1848	20	39	40	2P	4278	15	39	40	2P
1848	20	41	42	60A	4278	15	41	42	60A
180	15	43	44	2P	4278	15	43	44	2P
180	15	45	46	15	-	15	45	46	15
15	47	48	15	-	-	15	47	48	15
15	49	50	15	-	-	15	49	50	15
15	51	52	2P	-	-	15	51	52	2P
53	54	-	-	-	-	53	54	-	-
55	56	-	-	-	-	55	56	-	-
57	58	-	-	-	-	57	58	-	-
59	60	15	-	-	-	59	60	15	-

\* SECURITY/MONITORING PANEL - 15 57  
\* FIRE ALARM PANEL - 15 59  
\* LOCK ON BREAKER \*GF BREAKER ■ ARC FAULT BREAKER

LIGHTING FIXTURE SCHEDULE		
FIXTURE TYPE	DESCRIPTION	WATTS
A	SURFACE OR CHAIN MOUNTED LED LINEAR 4 FOOT STRIP LUMINAIRE, 3600 LUMENS, WITH BAKED WHITE STEEL HOUSING, FROST ACRYLIC LENS, 120 VOLT DRIVER, 3600K LENS, AND V-HOOKS FOR CHAINS. PHILIPS DAYBRITE #LF4E2830U-LAG-CHAN COOPER #ASNLED-LD4-41SL-LW-120-LB35-CD1-AYC-CHANSET OR APPROVED EQUAL	58
B	4 FT. LINEAR PENDANT MOUNT DIRECT LED LUMINAIRE WITH EXTRUDED ALUMINUM HOUSING, AIRCRAFT CABLE, SATIN LAY-IN LENS, 3500K AND 120 VOLT DRIVER. COLOUR BY ARCHITECT. PHILIPS MICRO SQUARE #M001LBGN47-11E-COLOUR COOPER #S2ZCP-1L3SSCB-4-100-SI-S92-COLOUR OR APPROVED EQUAL	37
BA	8 FT. LINEAR PENDANT MOUNT DIRECT LED LUMINAIRE WITH EXTRUDED ALUMINUM HOUSING, AIRCRAFT CABLE, SATIN LAY-IN LENS, 3500K AND 120 VOLT DRIVER. COLOUR BY ARCHITECT. PHILIPS MICRO SQUARE #M001LBGN352-11E-COLOUR COOPER #S2ZCP-1L3SSCB-8-100-SI-S92-COLOUR OR APPROVED EQUAL	74
BB	12 FT. LINEAR PENDANT MOUNT DIRECT LED LUMINAIRE WITH EXTRUDED ALUMINUM HOUSING, AIRCRAFT CABLE, SATIN LAY-IN LENS, 3500K AND 120 VOLT DRIVER. COLOUR BY ARCHITECT. PHILIPS MICRO SQUARE #M001LBGN528-11E-COLOUR COOPER #S2ZCP-1L3SSCB-12-100-SI-S92-COLOUR OR APPROVED EQUAL	111
C	4 FT. LINEAR PENDANT MOUNT DIRECT/INDIRECT LED LUMINAIRE WITH EXTRUDED ALUMINUM HOUSING, AIRCRAFT CABLE, SATIN LAY-IN LENS, 3500K, DUAL CIRCUIT AND 120 VOLT. COLOUR BY ARCHITECT. PHILIPS MICRO SQUARE #M006BCC264-11E-COLOUR COOPER NEDRAY #S2ZCP-1L3SSCB-6-100-DU-S92-COLOUR OR APPROVED EQUAL	74
CA	12 FT. LINEAR PENDANT MOUNT DIRECT/INDIRECT LED LUMINAIRE WITH EXTRUDED ALUMINUM HOUSING, AIRCRAFT CABLE, SATIN LAY-IN LENS, 3500K, DUAL CIRCUIT, AND 120 VOLT DRIVER. COLOUR BY ARCHITECT. PHILIPS MICRO SQUARE #M006BCC528-11E-COLOUR COOPER #S2ZCP-1L3SSCB-12-100-DU-S92-COLOUR OR APPROVED EQUAL	222
D	SURFACE ROUND 2" LENS PINHOLE LED DOWNLIGHT LUMINAIRE WITH 40DEG. FLOOD DISTRIBUTION TRIM, MATTE WHITE FLANGE/FRAME, 900 LUMENS, 3500K AND INTEGRAL DIMMING 120V DRIVER. PHILIPS LIGHTOLIER #C410C835KCLV8B-210 COOPER HALO #H4R-M409N9L935E-T1R50N140-FL43R20MWB OR APPROVED EQUAL	12
E	4 INCH RECESSED LED DOWNLIGHT FIXTURE WITH MEDIUM REFLECTOR, SELF-FLANGED, 900 LUMENS, 3500K AND 120V DRIVER. PORTFOLIO #LD4B2100010-EU4B10208035-4LB2MM PHILIPS OR APPROVED EQUAL	12
EA	4 INCH RECESSED LED DOWNLIGHT FIXTURE WITH MEDIUM REFLECTOR, SELF-FLANGED, 1800 LUMENS, 3500K AND 120V DRIVER. PORTFOLIO #LD4B200010-EU4B10208035-4LB2MM PHILIPS OR APPROVED EQUAL	14
EW	RECESSED ROUND 2" LENSED LED LUMINAIRE WITH ASYMETRIC WALL WASH TRIM, MATTE WHITE FLANGE/FRAME, 900 LUMENS, 3500K AND 120V DRIVER, 4" IC SHALLOW HOUSING. COOPER HALO #M409N9L935E-T1R50MWB-TLS4SR6GMWB-H2ARICAT PHILIPS OR APPROVED EQUAL	32
F	3 INCH LED TRACK LIGHTING LUMINAIRES WITH LOW PROFILE, ALUMINUM DIE-CAST HEAT SINK, 41" FLOOD, 850 LUMENS, 3500K AND 120V DRIVER. COLOUR BY ARCHITECT. HALO #B8080819035 PHILIPS OR APPROVED EQUAL	36
G	LOW PROFILE UNDERCABINET 24 INCH LED LUMINAIRE WITH STEEL HOUSING, WHITE POWDER COAT FINISH, OPAL ACRYLIC LENS, ELECTRONIC 120 DRIVER, 3500K AND ROCKER SWITCH. HALO #HJ0240930P PHILIPS OR APPROVED EQUAL	9
Z	WALL MOUNTED EXTERIOR LED LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING, ONE 7 LED LIGHTBAR, 120 VOLT AND TYPE IV DISTRIBUTION WITH BACK LIGHT CONTROL. CUSTOM COLOUR BY ARCHITECT. MCGRAW-EDISON #ST-F01-LED-E1-BL4-XX PHILIPS OR APPROVED EQUAL	32

- ### GENERAL REVISED NOTES
- UNLESS OTHERWISE NOTED, CONTRACTOR IS TO PROVIDE ALL WIRING, CONDUIT AND MOUNTING HARDWARE TO COMPLETE THE WORKS AS INDICATED.
  - CONTRACTOR TO ARRANGE AND PAY FOR ALL PERMITS AND PROVIDE FINAL CERTIFICATE OF ELECTRICAL INSPECTION.
  - CONTRACTOR TO OBTAIN LOCATES PRIOR TO EXCAVATION/CONSTRUCTION.
  - CONTRACTOR TO PROVIDE COMPLETE INSTALLATION TO ALL EQUIPMENT.
  - CONTRACTOR TO COORDINATE WORK WITH OTHER TRADES/UTILITIES.
  - ALL WIRING TO BE COPPER TYPE, UNLESS SPECIFIED OTHERWISE.
  - ALL OUTDOOR WIRING THROUGH ROOF PENETRATIONS TO BE INSTALLED IN SEALTITE CONDUIT.
  - REMOVE AND REPLACE ALL CEILING TILES AS REQUIRED FOR CONSTRUCTION ACCESS. ALL DAMAGED TILES TO BE REPLACED TO MATCH EXISTING.
  - ALL CHANGES TO THE FIRE ALARM SYSTEM ARE TO BE IN ACCORDANCE WITH CAN/ULC-S524-M. FOLLOWING INSTALLATION, THE CHANGES SHALL BE VERIFIED IN ACCORDANCE WITH CAN/ULC-S537-M.
  - DRAWINGS MAY NOT SHOW ALL DEVICES REQUIRED FOR A COMPLETE FIRE ALARM SYSTEM E.G. ISOLATION MODULES, END OF LINE RESISTORS, RELAYS, ETC. CONTRACTOR SHALL COORDINATE DEVICE/WIRING INSTALLATION WITH FIRE ALARM MANUFACTURER TO PROVIDE A FULLY FUNCTIONING FIRE ALARM SYSTEM IN ACCORDANCE WITH CODE REQUIREMENTS.
  - GROUND FLOOR DEVICE CONDUIT/WIRING TO BE ROUTED AT HIGH LEVEL AND MOUNTED CLOSE TO MECHANICAL SERVICES FOR CONCEALMENT. SECOND FLOOR RACEWAYS TO BE FED FROM BELOW. SECOND FLOOR POWER DEVICE WIRING IN NEW WALL CONSTRUCTION TO BE ROUTED THROUGH ATTIC SPACE.
  - DRAWINGS DO NOT SHOW THE EXACT ROUTE FOR CONDUIT/WIRING/RACEWAY AND IS INTENDED AS A GUIDE TO THE CONTRACTOR. CONTRACTOR TO COORDINATE ROUTING WITH MECHANICAL SERVICES TO CONCEAL NEW CONDUIT/RACEWAYS IN GROUND FLOOR CEILING.
  - 'EX' PRECEDING TAGS, LINES, ETC. INDICATED EXISTING EQUIPMENT, WIRING AND CONDUIT.
  - NEUTRAL CONDUCTORS SHALL NOT BE USED FOR MORE THAN ONE BRANCH CIRCUIT. FOR MORE THAN ONE MULTI-WIRE BRANCH CIRCUIT OR MORE THAN ONE SET OF UNGROUNDED FEEDER CONDUCTORS.

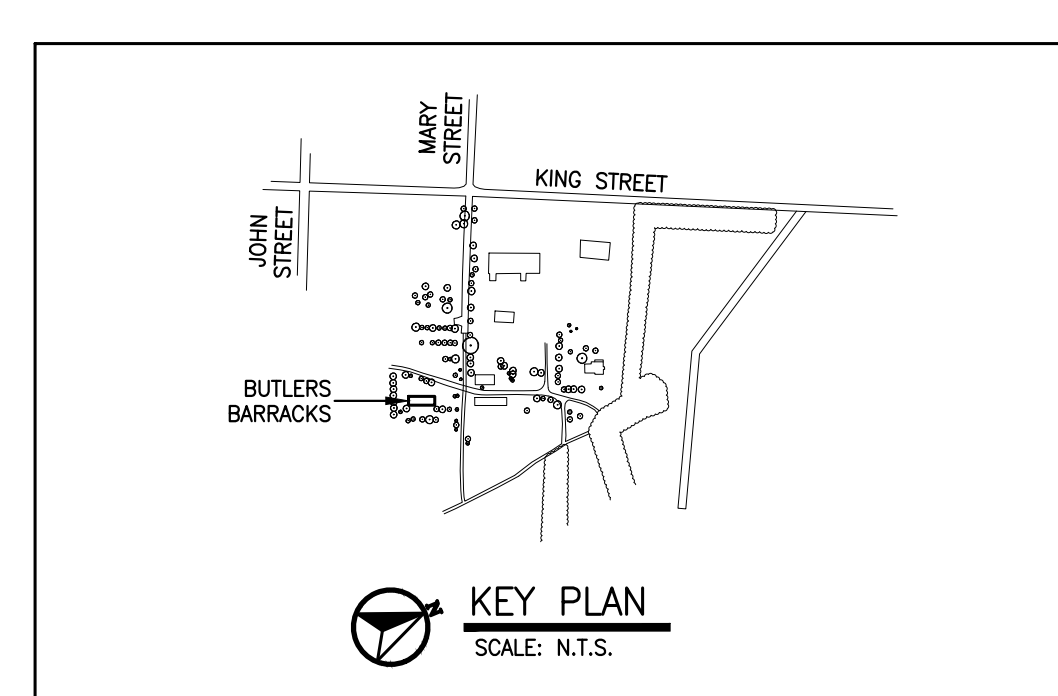
- ### GENERAL DEMOLITION NOTES
- THIS DRAWING DOES NOT SHOW ALL HIDDEN OR CONCEALED WIRING, CONDUIT AND EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL VISIT THE SITE, MAKE THEIR OWN EVALUATION AND ESTIMATE OF THE EXTENT AND MAGNITUDE OF THE WORK INVOLVED.
  - COORDINATE AND OBTAIN APPROVAL FROM OWNER FOR ALL INTERRUPTIONS AND SHUTDOWNS. PROVIDE TEMPORARY POWER TO MAINTAIN SECURITY SYSTEM.
  - DISCONNECT AND REMOVE ALL POWER WIRING TO FURNACE IN ATTIC SPACE. EXISTING LIGHTING IN ATTIC TO REMAIN.
  - WHERE CEILINGS ARE REMOVED, SECURE ALL UNSUPPORTED WIRING TO UNDERSIDE OF STRUCTURE.
  - COORDINATE SECURITY PANEL RELOCATION WITH OWNER'S SECURITY CONTRACTOR.

EMERGENCY FIXTURE SCHEDULE		
FIXTURE TYPE	DESCRIPTION	WATTS
EXIT SIGN	LED GREEN RUNNING MAN SIGN, SLIM LINE ALUMINUM HOUSING, WHITE, 120VAC/24VDC. CONTRACTOR TO DETERMINE PICTOGRAM AND ARROW REQUIREMENTS. BEGHELLI #QR-RM-L-1-TBD-M-UDC-WHT EMERGLITE OR STANPRO APPROVED EQUAL	2
BATTERY UNIT	EMERGENCY LIGHTING 24 VOLT BATTERY PACK WITH TWO 5W LED MR16 HEADS, WATTAGE CAPACITY AS LISTED BELOW, CABTIRE CORDSET AND TIME DELAY TEST FEATURE SET FOR 5 MINUTES. EMA - BEGHELLI #BN-24-320-2SR-SWLED-120V-TDSMIN EMERGLITE OR STANPRO APPROVED EQUAL	144
REMOTE HEADS	REMOTE LED EMERGENCY LIGHTING HEAD 24VDC WITH ONE OR TWO 5W LED MR16 LAMP HEADS AS SHOWN. SINGLE - BEGHELLI #SR-1-24V-SWLED-WHT DOUBLE - BEGHELLI #SR-2-24V-SWLED-WHT EMERGLITE OR STANPRO APPROVED EQUAL	5, 10

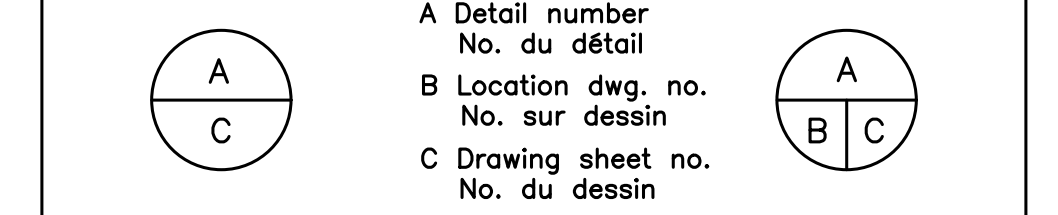
- ### GENERAL DEMOLITION NOTES
- THIS DRAWING DOES NOT SHOW ALL HIDDEN OR CONCEALED WIRING, CONDUIT AND EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL VISIT THE SITE, MAKE THEIR OWN EVALUATION AND ESTIMATE OF THE EXTENT AND MAGNITUDE OF THE WORK INVOLVED.
  - COORDINATE AND OBTAIN APPROVAL FROM OWNER FOR ALL INTERRUPTIONS AND SHUTDOWNS. PROVIDE TEMPORARY POWER TO MAINTAIN SECURITY SYSTEM.
  - DISCONNECT AND REMOVE ALL POWER WIRING TO FURNACE IN ATTIC SPACE. EXISTING LIGHTING IN ATTIC TO REMAIN.
  - WHERE CEILINGS ARE REMOVED, SECURE ALL UNSUPPORTED WIRING TO UNDERSIDE OF STRUCTURE.
  - COORDINATE SECURITY PANEL RELOCATION WITH OWNER'S SECURITY CONTRACTOR.

LINE LEGEND	
-----	EXISTING EQUIPMENT TO BE REMOVED.
---	EXISTING EQUIPMENT TO REMAIN.
---	NEW EQUIPMENT TO BE INSTALLED.
---UG/F---	NEW UNDERGROUND FIRE ALARM CONDUIT.
---UG/S---	EXISTING UNDERGROUND SECONDARY CONDUIT.
---UG/C---	EXISTING UNDERGROUND COMMUNICATIONS CONDUIT.

ELECTRICAL DRAWING LIST	
DRAWING NO.	DRAWING TITLE
E1	LEGEND, SCHEDULES, AND DETAILS
E2	POWER AND COMMUNICATIONS LAYOUTS
E3	FIRE ALARM AND LIGHTING LAYOUTS
E4	PARTIAL SITE PLAN, FIRE ALARM RISER AND SINGLE LINE DIAGRAM
E5	DEMOLITION PLANS



No.	Date	Description	Drawn by	Approved
2	13/03/17	TENDER	SD	NA
1	23/12/16	INTERNAL REVIEW	SD	NA
0	27/10/16	REVIEW	SD	NA



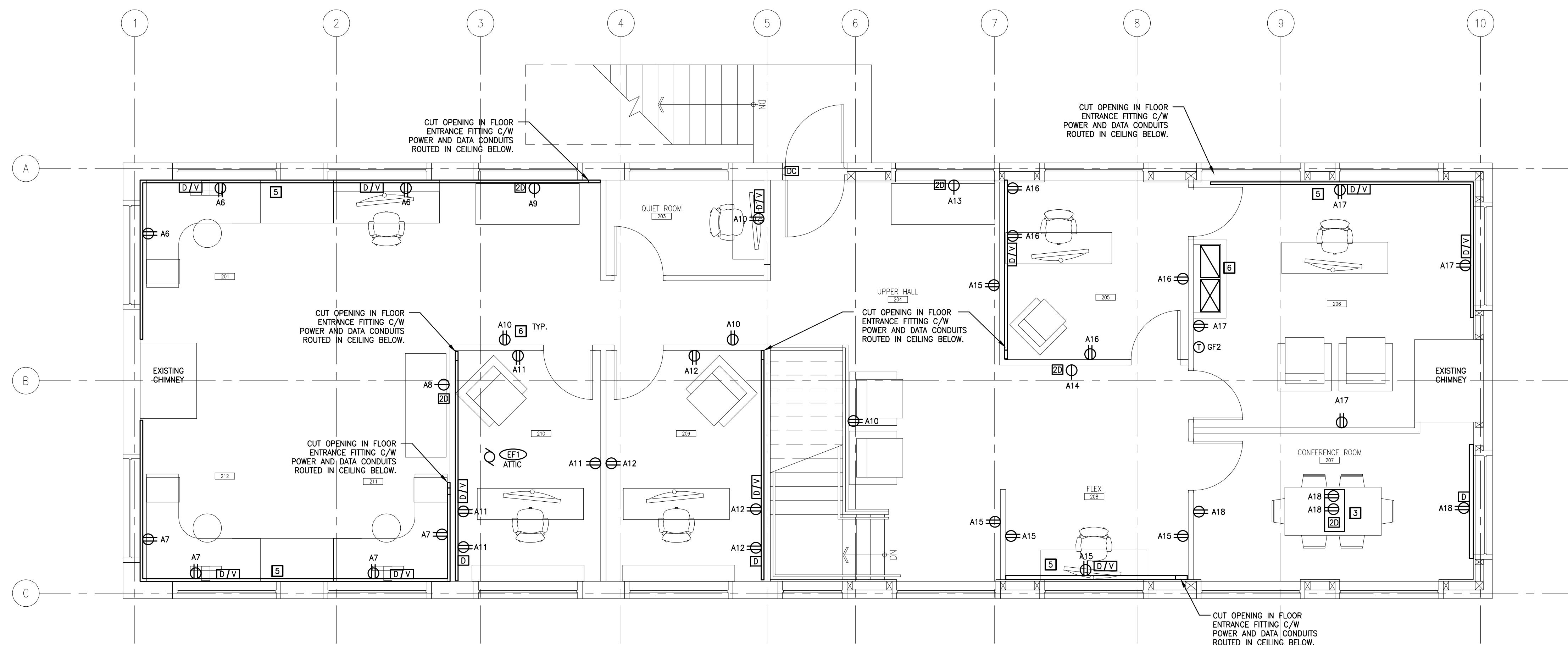
Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin  
**LEGENDS, SCHEDULES AND DETAILS**

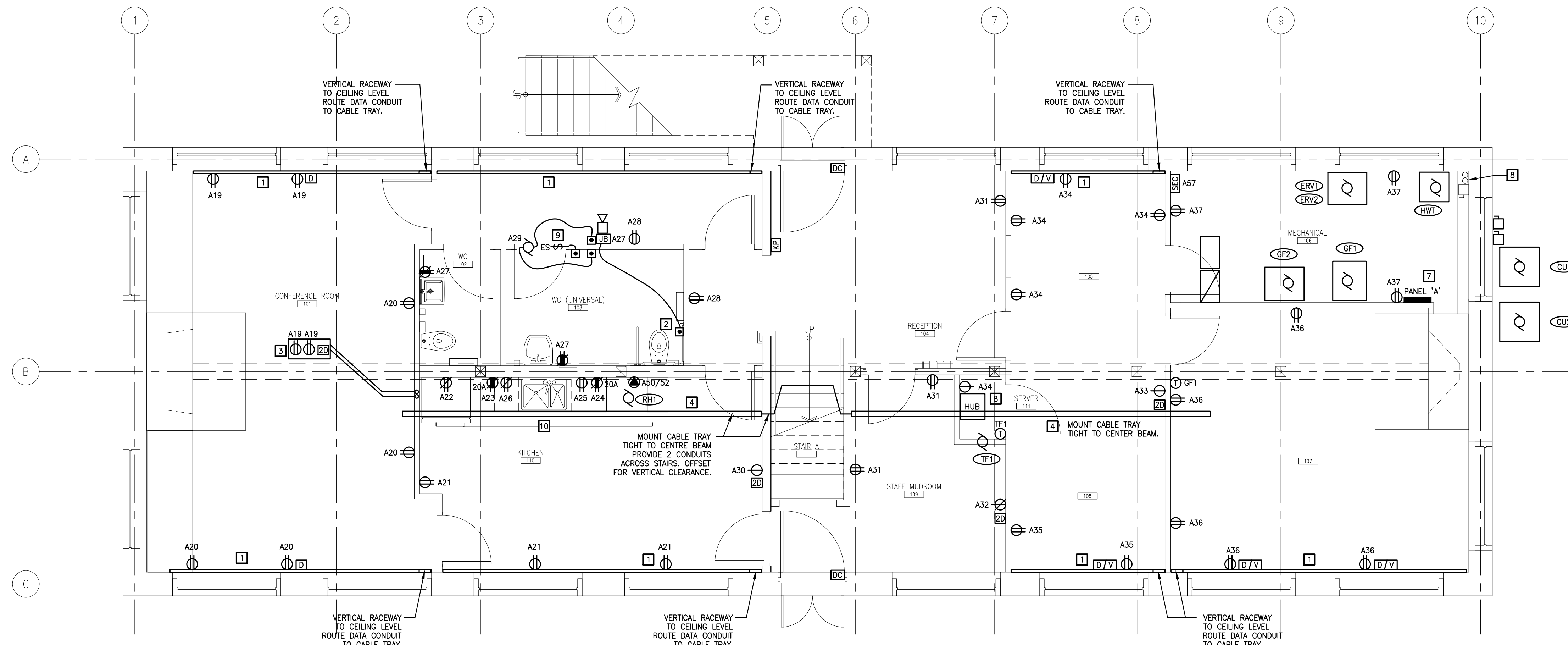
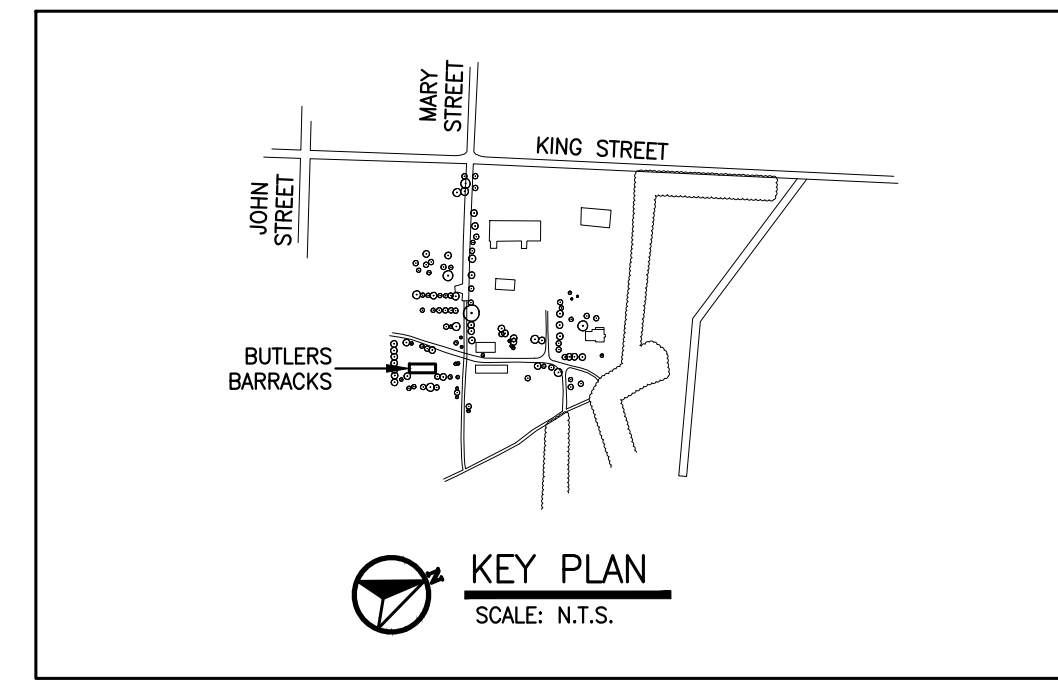
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AS SHOWN		
Drawn by / Dessiné par	Date	
SD	13/03/17	
Designed by / Conçu par	Date	
NA	13/03/17	
Checked by / Vérifié par	Date	
NA	13/03/17	
Approved by / Approuvé par	Date	
NA	13/03/17	
Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		E1
Drawing Reference No./Numéro de Référence du Dessin		





SECOND FLOOR POWER/COMMUNICATIONS LAYOUT - REVISED  
SCALE: 1:50

REVISED NOTES	
TAG	DESCRIPTION
1	PROVIDE DUAL CHANNEL RACEWAY AT BASEBOARD LEVEL (LEGRAND 5000 SERIES) C/W DEVICES AND FITTINGS. PROVIDE 27mm CONDUIT IN JOIST SPACE TO CABLE TRAY. ROUTE POWER WIRING IN CONDUIT RACEWAY AT CEILING LEVEL TO PANEL.
2	PROVIDE CALL ASSISTANCE KIT - PULLCORD/PUSHBUTTON STATION, ANNUNCIATOR, HORN/STROBE AND SIGNAGE. TYP. #204-CW2E10 OR APPROVED EQUAL. CONTRACTOR TO PROVIDE 24VDC TRANSFORMER AND MOUNT IN E-BOX.
3	PROVIDE FLOOR BOX C/W DEVICES AND BLANK COVER (LEGRAND #CAF3). PROVIDE COMMUNICATIONS CONDUITS TO CABLE TRAY. STUB UP CONDUITS IN NEW WALL CONSTRUCTION.
4	PROVIDE NEW MESH 1"X4" CABLE TRAY (LEGRAND #CF30/100) ABOVE RETURN AIR DUCT. SUSPEND 1'-2" BELOW WOOD JOISTS. PROVIDE VERTICAL TRAY FROM CEILING TO FLOOR LEVEL BESIDE OWNERS DATA RACK.
5	PROVIDE DUAL CHANNEL RACEWAY AT BASEBOARD LEVEL (LEGRAND 5000 SERIES) C/W DEVICES AND FITTINGS. PROVIDE OPENING IN FLOOR AND ROUTE POWER/DATA CONDUITS TO BELOW. PROVIDE COMMUNICATIONS CONDUIT TO CABLE TRAY. ROUTE POWER WIRING IN CONDUIT RACEWAY TO PANEL.
6	ROUTE POWER WIRING TO DEVICES IN NEW WALL CONSTRUCTION THROUGH ATTIC SPACE. LOCATE VERTICAL CONDUIT DROP IN OFFICE 206 ADJACENT TO DUCTWORK.
7	PROVIDE NEW ELECTRICAL PANEL IN MECHANICAL ROOM. REFER TO SINGLE LINE DIAGRAM FOR FEEDER REQUIREMENTS.
8	PROVIDE 27mm CONDUIT FROM INCOMING FIBRE SERVICE LOCATION IN MECHANICAL ROOM C/W POLY PULL CORD TO OWNERS DATA SWITCH/RACK IN HUB ROOM.
9	PROVIDE ALL BACKBOXES, POWER/CONTROL WIRING TO PUSHBUTTONS, DOOR OPERATOR, ELECTRIC LOCK AND IN-USE LIGHT. COORDINATE INSTALLATION WITH DOOR HARDWARE CONTRACTOR.
10	COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL MILLWORK DRAWINGS.



GROUND FLOOR POWER/COMMUNICATIONS LAYOUT - REVISED  
SCALE: 1:50

No.	Date	Description	Drawn by	Approved
2	13/03/17	TENDER	SD	NA
1	23/12/16	INTERNAL REVIEW	SD	NA
0	27/10/16	REVIEW	SD	NA

Revision / Révision	
A	Detail number / No. du détail
B	Location dwg. no. / No. sur dessin
C	Drawing sheet no. / No. du dessin



Project title / Titre du projet

REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS

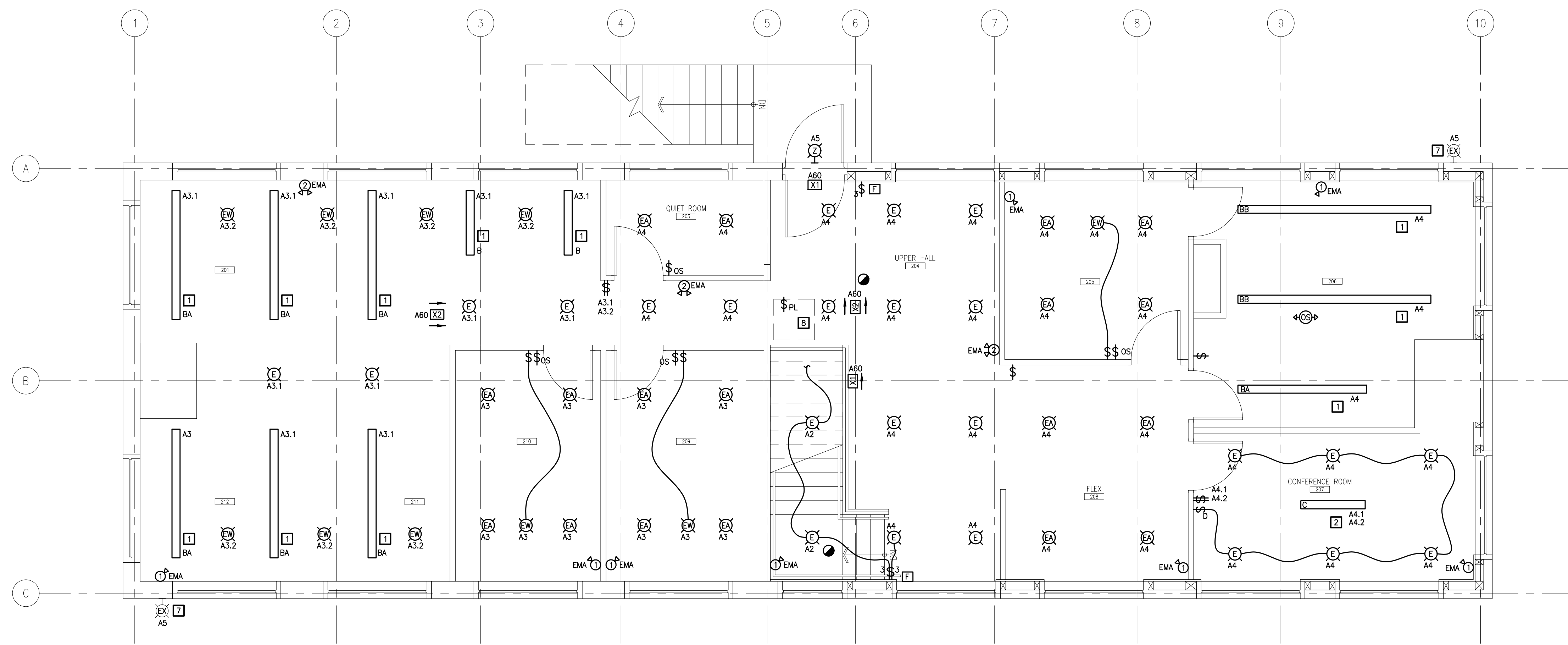
NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin  
POWER AND COMMUNICATIONS LAYOUTS

Scale / Echelle		
AS SHOWN		
Drawn by / Dessiné par	Date	
SD	13/03/17	
Designed by / Conçu par	Date	
NA	13/03/17	
Checked by / Vérifié par	Date	
NA	13/03/17	
Approved by / Approuvé par	Date	
NA	13/03/17	
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Drawing Reference No./Numéro de Référence du Dessin		

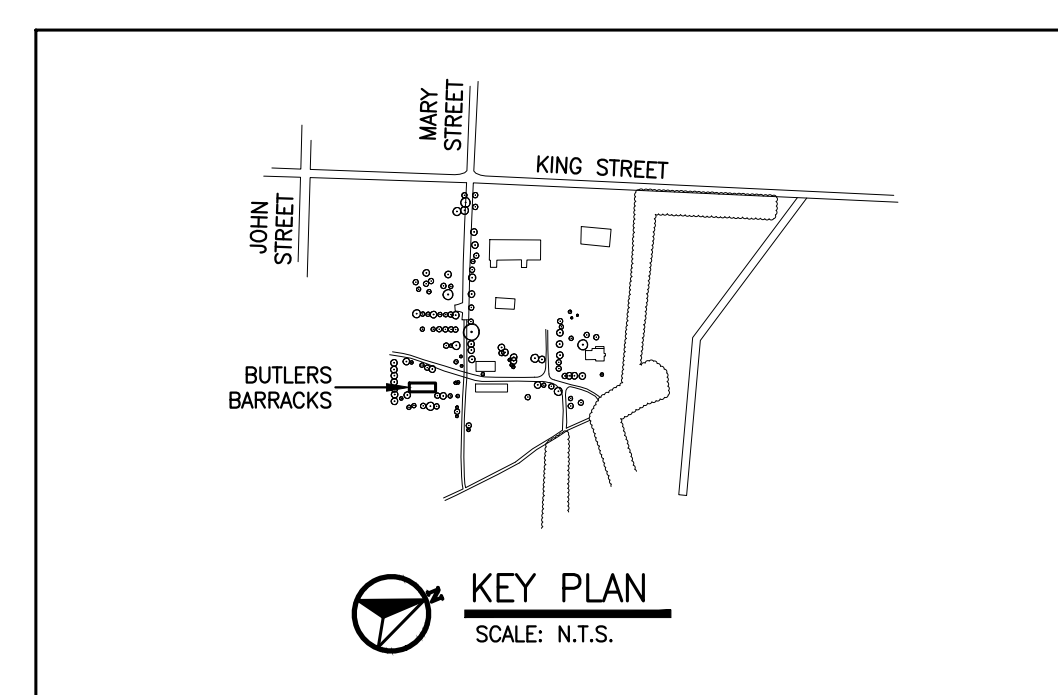
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VIEW PLOTTED AS SHOWN  
SCALE OF PLOT 1:1  
PERSON PLOTTING SD  
DATE PLOTTED 13/03/17  
TIME PLOTTED



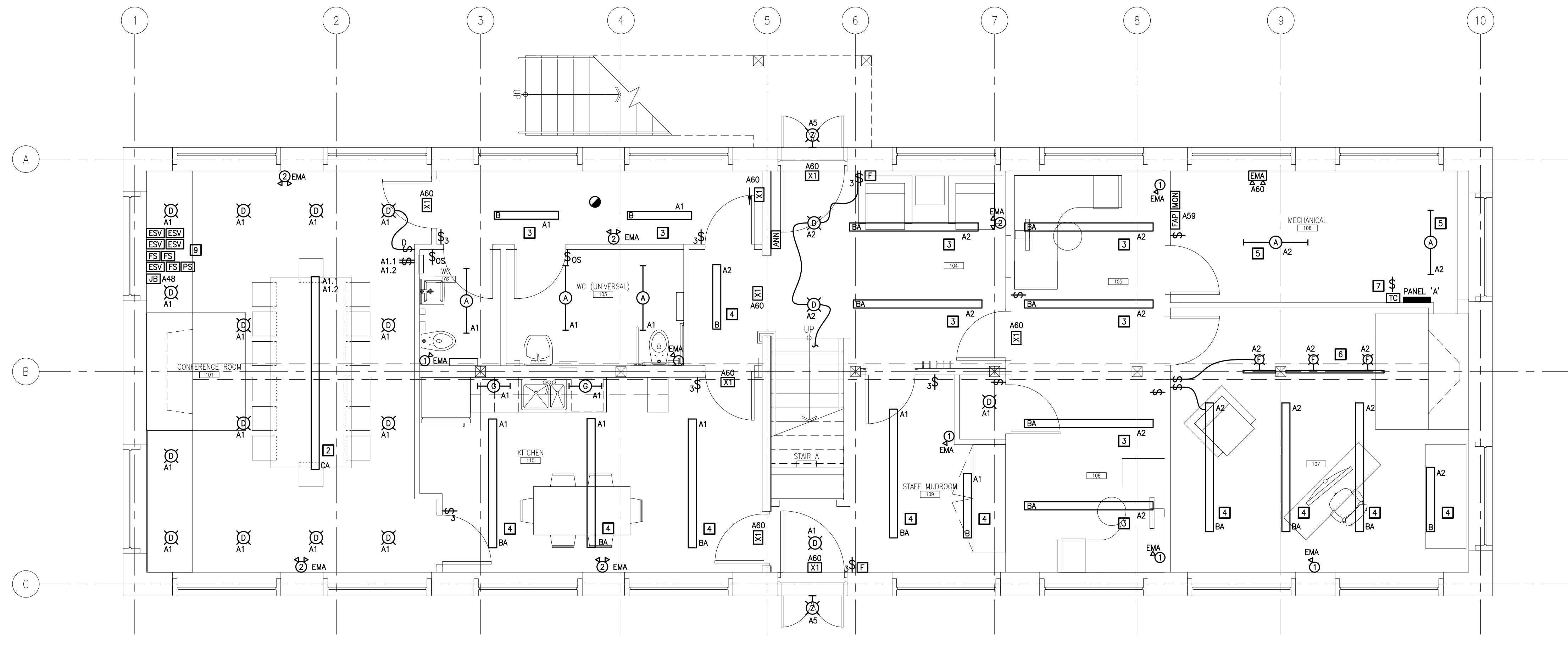


SECOND FLOOR FIRE ALARM AND LIGHTING LAYOUT - REVISED  
SCALE: 1:50

REVISED NOTES	
TAG	DESCRIPTION
1	SUSPEND LIGHTING FIXTURE AT 2590mm ABOVE FINISHED FLOOR.
2	SUSPEND LIGHTING FIXTURE AT 2134mm ABOVE FINISHED FLOOR.
3	SUSPEND LIGHTING FIXTURE AT 2387mm ABOVE FINISHED FLOOR.
4	SUSPEND LIGHTING FIXTURE AT APPROXIMATELY 2745mm ABOVE FINISHED FLOOR. BOTTOM OF FIXTURES TO BE MOUNTED FLUSH WITH UNDERSIDE OF WOOD FLOOR JOISTS.
5	MOUNT LIGHTING FIXTURE TO UNDERSIDE OF WOOD FLOOR JOISTS. COORDINATE EXACT LOCATION OF FIXTURES ON SITE WITH MECHANICAL CONTRACTOR.
6	SURFACE MOUNT TRACK LIGHTING TO UNDERSIDE OF WOOD JOIST.
7	PROVIDE NEW WIRING TO EXISTING EXTERIOR LIGHTING FIXTURES. PROVIDE NEW TIMER CONTROLS WITH BYPASS SWITCH. REFER TO EXTERIOR LIGHTING SCHEMATIC ON DRAWING E1.
8	PROVIDE NEW WIRING AND SWITCH IN ATTIC FOR EXISTING ATTIC LIGHT CONTROLS. REWORK ATTIC LIGHTING WIRING TO NEW ILLUMINATED SWITCH. PROVIDE VERTICAL SUPPORT ADJACENT TO ATTIC HATCH. CIRCUIT #447. REPLACE 6 EXISTING INCANDESCENT LAMPS WITH LED HYBRID.
9	COORDINATE NEW SPRINKLER DEVICE WIRING/ZONES WITH SPRINKLER CONTRACTOR.



KEY PLAN  
SCALE: N.T.S.



GROUND FLOOR FIRE ALARM AND LIGHTING LAYOUT - REVISED  
SCALE: 1:50

No.	Date	Description	Drawn by Dessine par	Approved Approuvé
2	13/03/17	TENDER	SD	NA
1	23/12/16	INTERNAL REVIEW	SD	NA
0	27/10/16	REVIEW	SD	NA

Revision / Révision	
A	A Detail number No. du détail
B	B Location dwg. no. No. sur dessin
C	C Drawing sheet no. No. du dessin



Project title / Titre du projet

REHABILITATION OF  
MEN'S BARRACKS BUILDING  
BUTLER'S BARRACKS

NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin

FIRE ALARM AND  
LIGHTING LAYOUTS

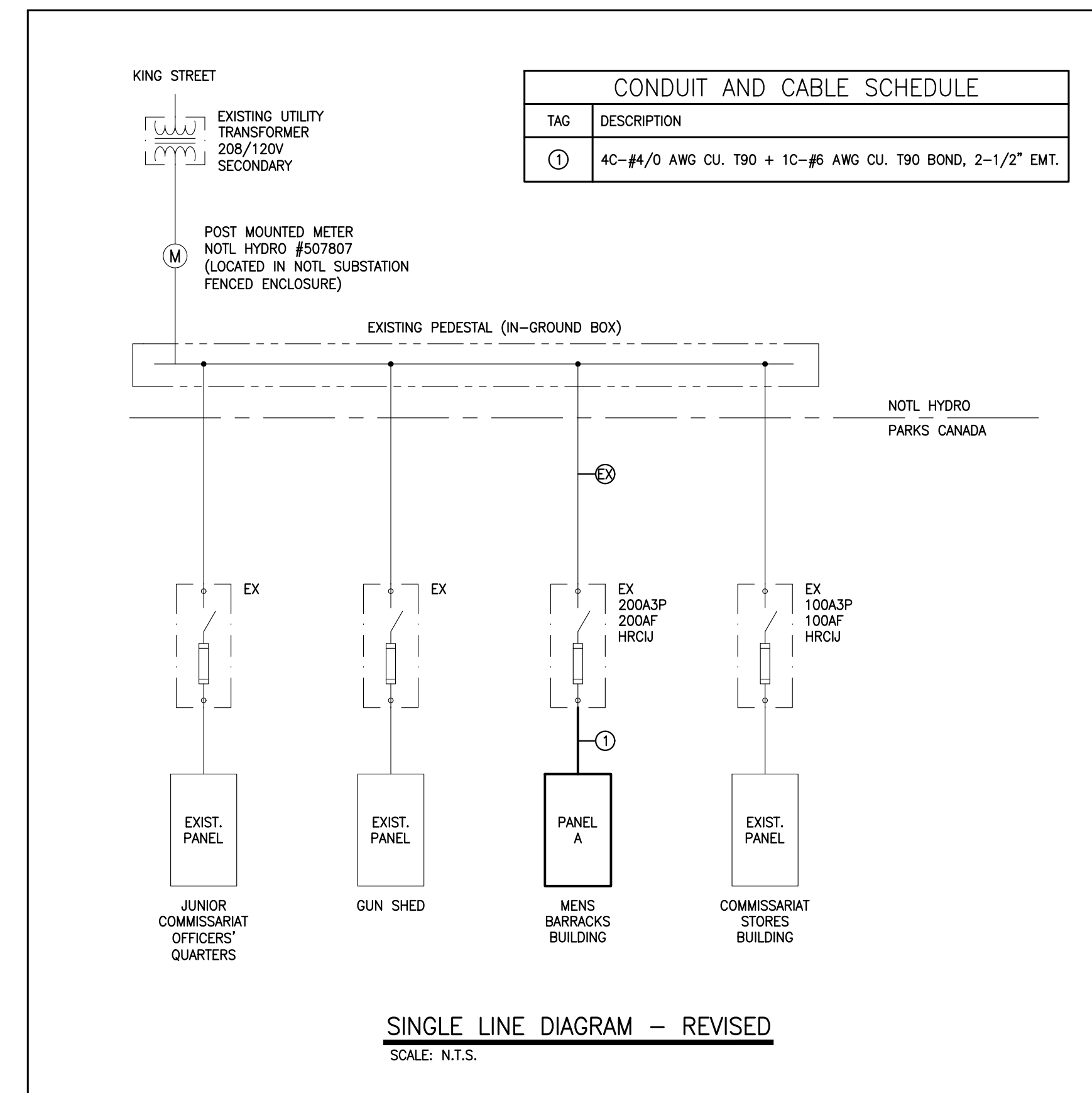
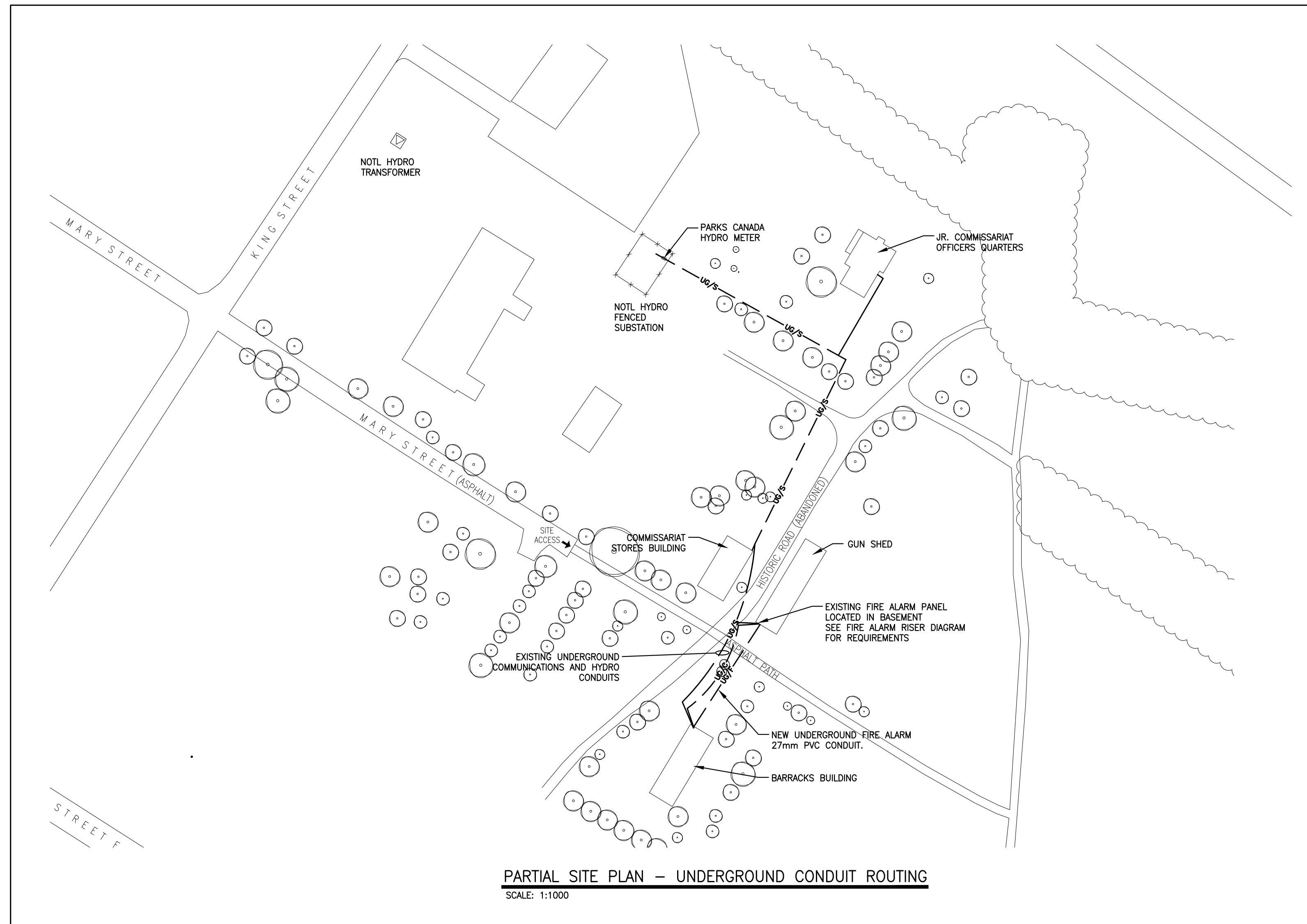
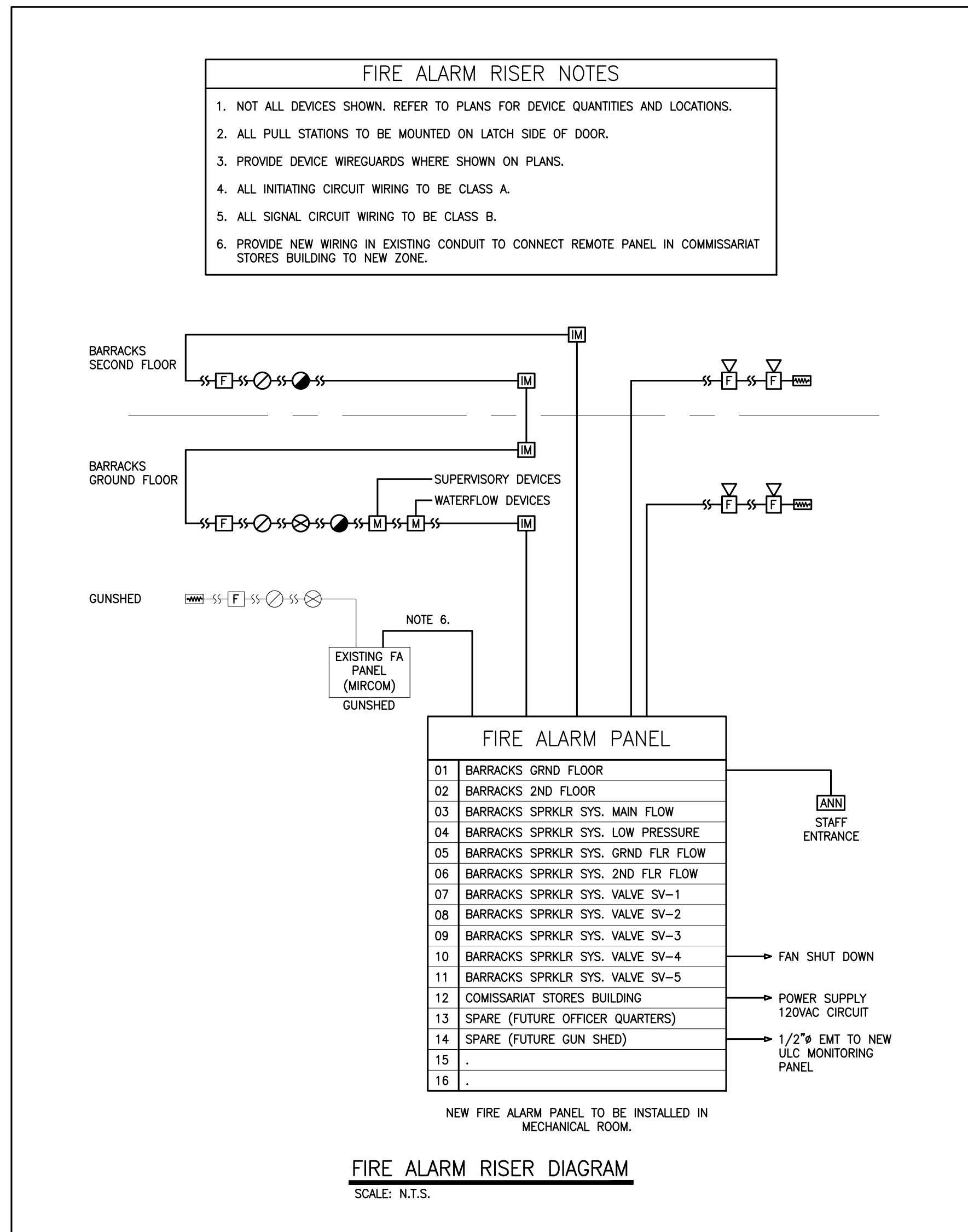
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Drawn by/ Dessiné par	Date
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Designed by/ Conçu par	Date
NA	13/03/17
Checked by/ Vérifié par	Date
NA	13/03/17
Approved by / Approuvé par	Date
NA	13/03/17

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		E3
Drawing Reference No./Numéro de Référence du Dessin		

DRAWING NAME 161-07695 ELEC WORKING  
VIEW PLOTTED AS SHOWN  
SCALE OF PLOT 1:1  
PERSON PLOTTING SD  
DATE PLOTTED 13/03/17  
TIME PLOTTED





Southwestern Ontario Le sud-ouest de l'Ontario

No.	Date	Description	Drawn by	Approved
2	13/03/17	TENDER	SD	NA
1	23/12/16	INTERNAL REVIEW	SD	NA
0	27/10/16	REVIEW	SD	NA

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Project title / Titre du projet

## REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS

NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin

### PARTIAL SITE PLAN FIRE ALARM RISER AND SINGLE LINE DIAGRAM

Scale / Echelle

**AS SHOWN**

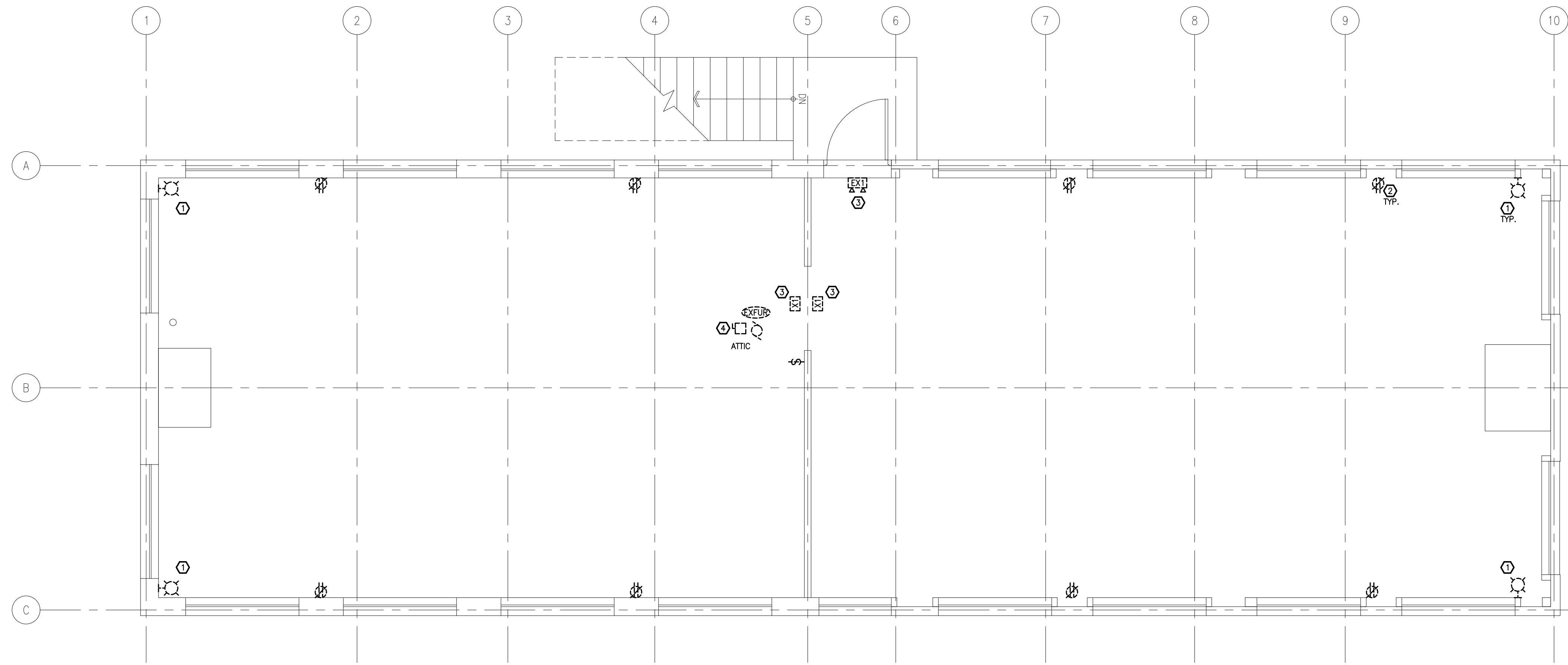
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NA	13/03/17
Approved by / Approuvé par	Date
NA	13/03/17

Project No./No. du projet	Client No./No du Client	Sheet No./Feuille No.
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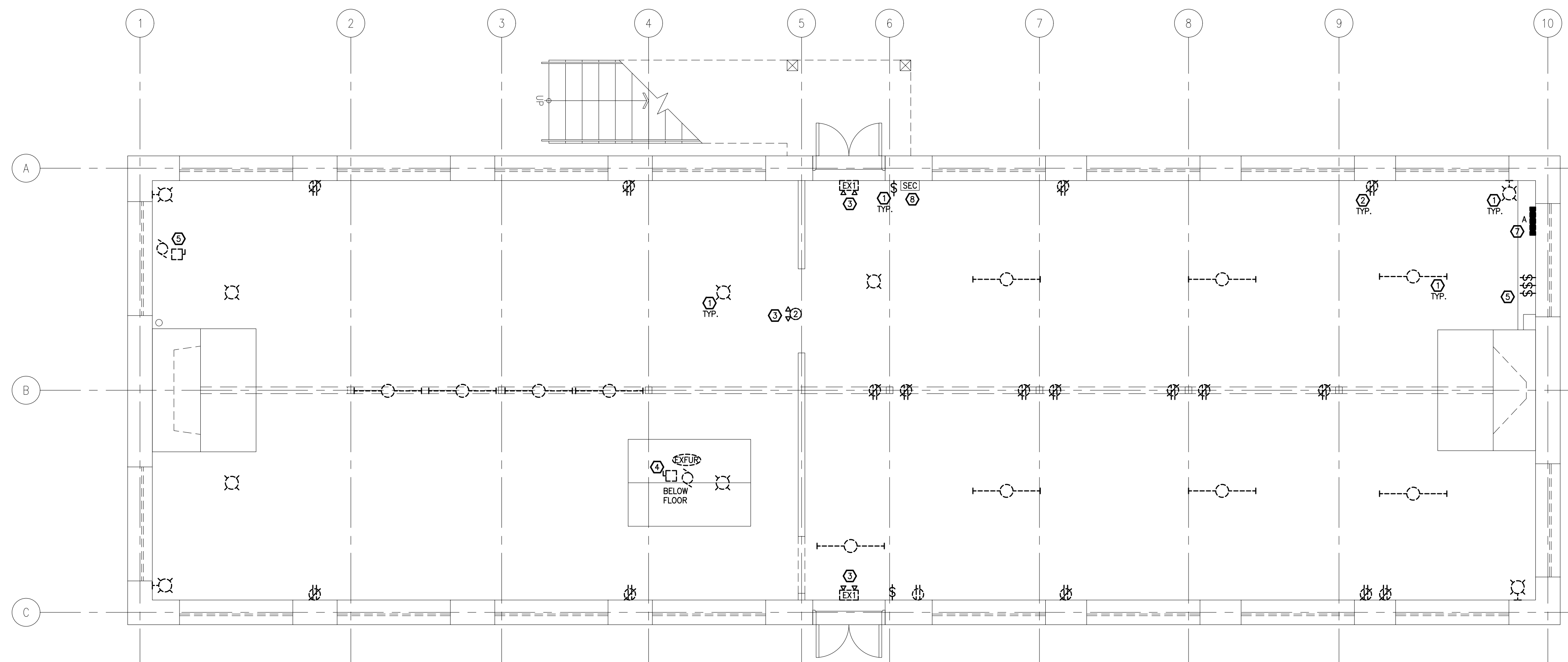
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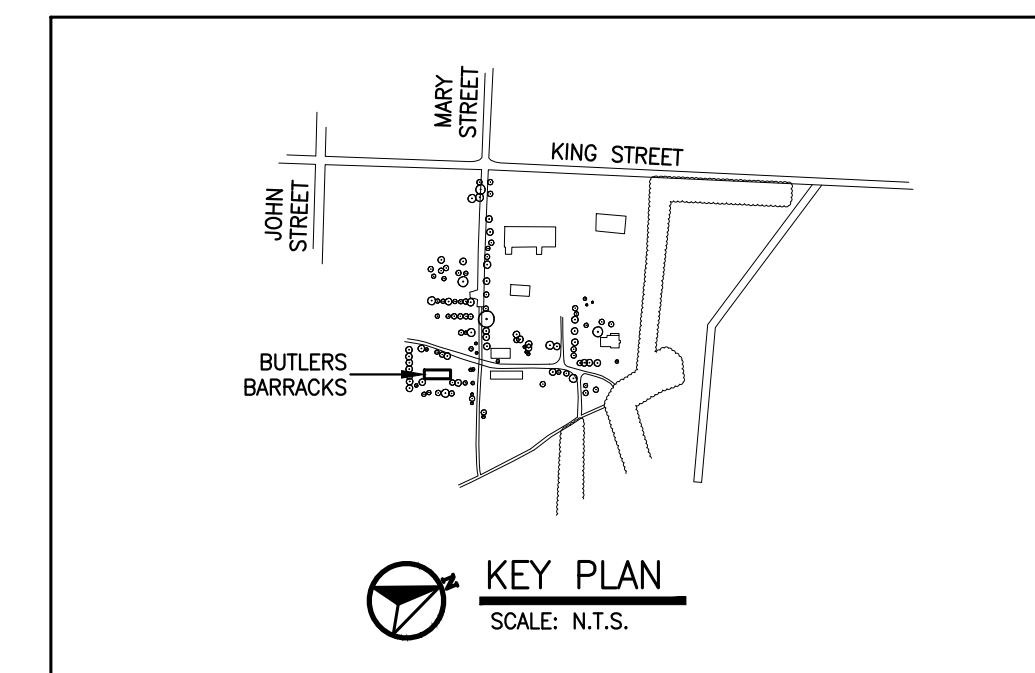
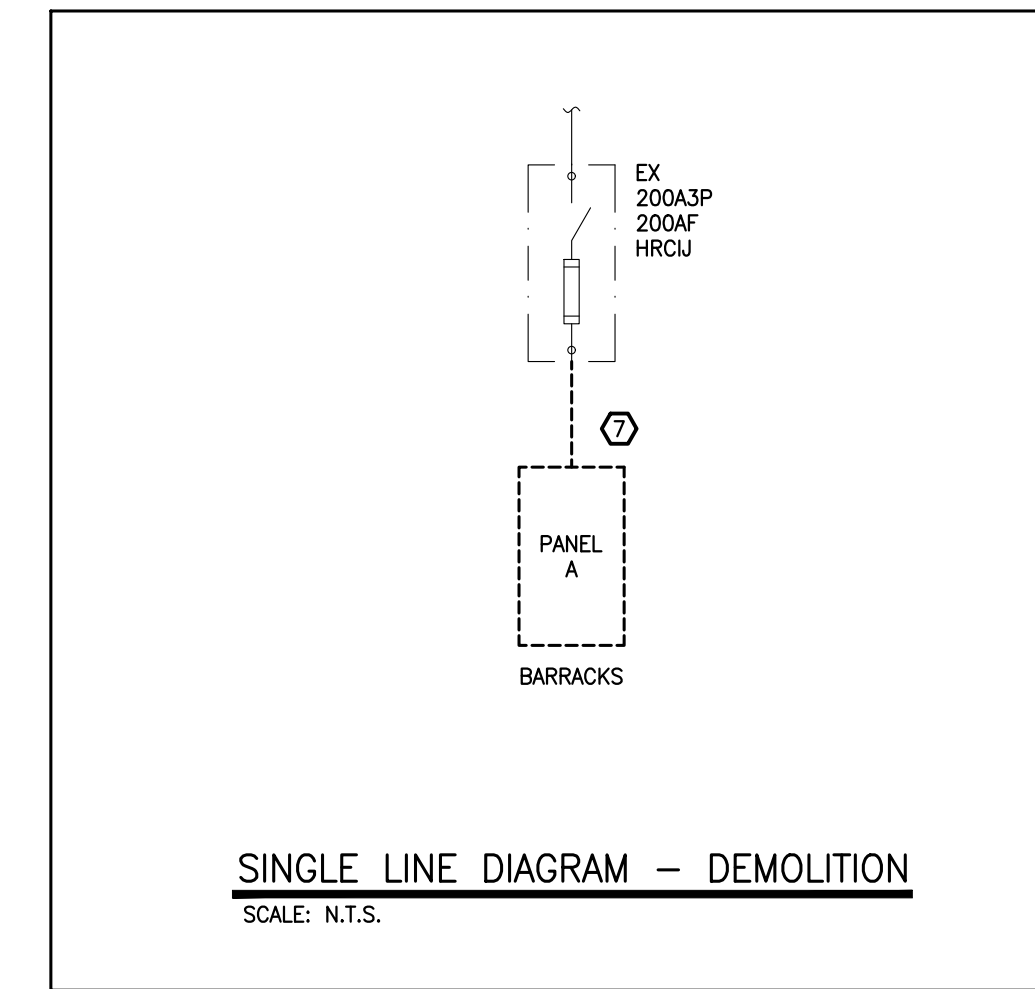


**SECOND FLOOR - DEMOLITION PLAN**  
SCALE: 1:50



**GROUND FLOOR - DEMOLITION PLAN**  
SCALE: 1:50

DEMOLITION NOTES	
TAG	DESCRIPTION
①	DISCONNECT AND REMOVE EXISTING LIGHTING, CONTROLS AND ASSOCIATED BX WIRING.
②	DISCONNECT AND REMOVE EXISTING DUPLEX RECEPTACLES, BACKBOXES, WIRING AND CONDUIT.
③	DISCONNECT AND REMOVE EXISTING EXIT SIGNS, EMERGENCY LIGHTING AND ASSOCIATED WIRING.
④	DISCONNECT AND REMOVE EXISTING CONDUIT/WIRING TO MECHANICAL EQUIPMENT.
⑤	DISCONNECT AND REMOVE EXISTING WIRING AND CONTROLS TO SPRINKLER SYSTEM COMPRESSOR.
⑥	CONTRACTOR TO FIELD LOCATE, DISCONNECT AND REMOVE EXISTING TELEPHONE/DATA WALL PLATES, JUNCTION BOXES, SURFACE WIREMOLD AND WIRING BACK TO SERVICE ENTRANCE TERMINAL.
⑦	DISCONNECT, ISOLATE AND REMOVE EXISTING PANEL, BRANCH WIRING AND CONDUIT FEED TO MAIN DISCONNECT. COORDINATE SHUTDOWN WITH OWNER TO INSTALL NEW PANEL.
⑧	DISCONNECT AND REMOVE SECURITY ALARM PANEL, ALARM DEVICES AND KEYPADS. COORDINATE DEMOLITION WORK WITH OWNER'S SECURITY CONTRACTOR.



No.	Date	Description	Drawn by Dessine par	Approved Approuvé
2	13/03/17	TENDER	SD	NA
1	23/12/16	INTERNAL REVIEW	SD	NA
0	27/10/16	REVIEW	SD	NA

Revision / Révision	
A	Detail number No. du détail
B	Location dwg. no. No. sur dessin
C	Drawing sheet no. No. du dessin



Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

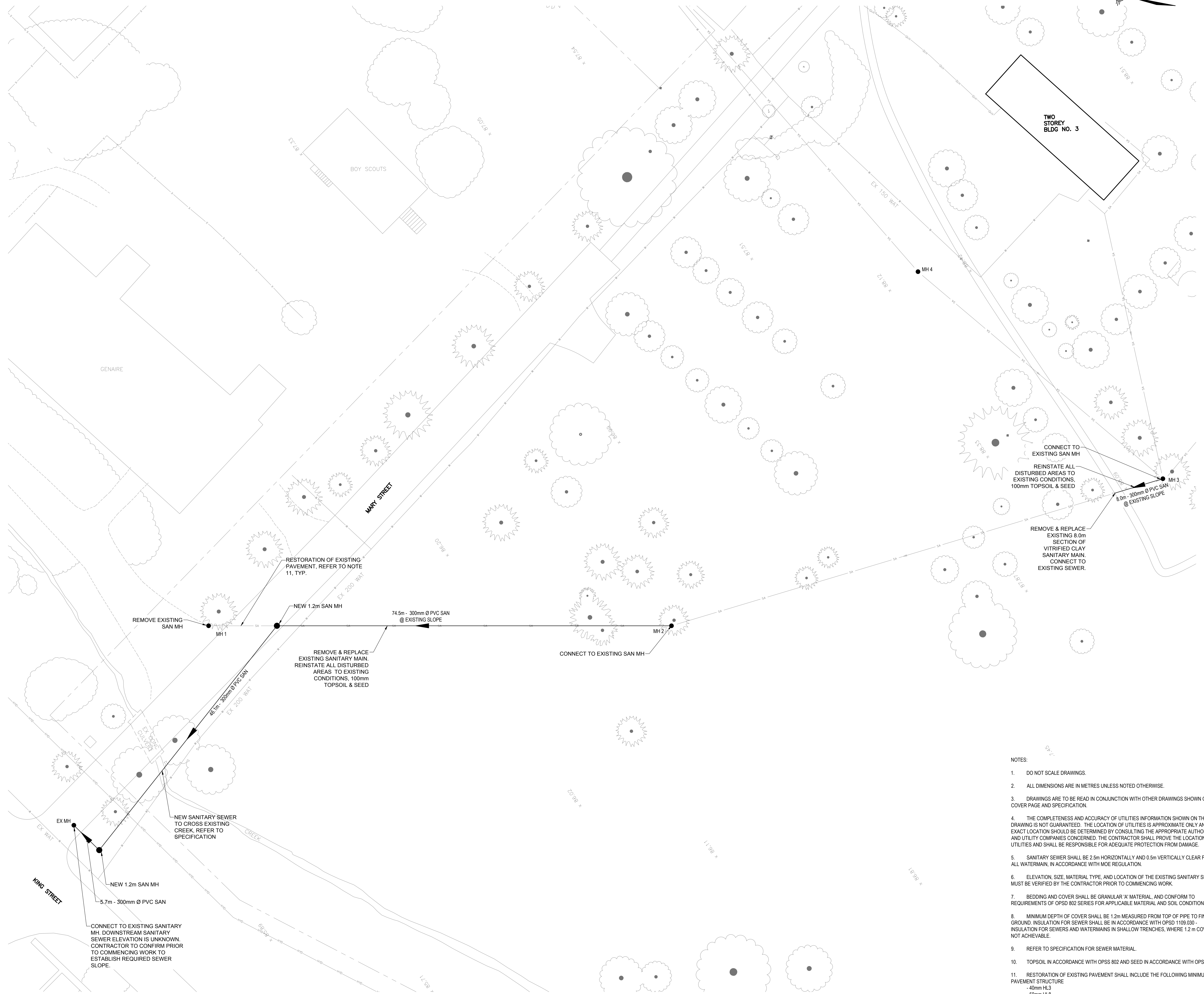
NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin  
**ELECTRICAL DEMOLITION PLANS**

Scale / Echelle		
AS SHOWN		
Drawn by/ Dessiné par	Date	
SD	13/03/17	
Designed by/ Conçu par	Date	
NA	13/03/17	
Checked by/ Vérifié par	Date	
NA	13/03/17	
Approved by / Approuvé par	Date	
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Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30224201		E5
Drawing Reference No./Numéro de Référence du Dessin		

DRAWING NAME 161-07695 ELEC WORKING  
VIEW PLOTTED AS SHOWN  
SCALE OF PLOT 1:1  
PERSON PLOTTING SD  
DATE PLOTTED 13/03/17  
TIME PLOTTED





- NOTES:
- DO NOT SCALE DRAWINGS.
  - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  - DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER DRAWINGS SHOWN ON COVER PAGE AND SPECIFICATION.
  - THE COMPLETENESS AND ACCURACY OF UTILITIES INFORMATION SHOWN ON THIS DRAWING IS NOT GUARANTEED. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE APPROPRIATE AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.
  - SANITARY SEWER SHALL BE 2.5m HORIZONTALLY AND 0.5m VERTICALLY CLEAR FROM ALL WATERMAIN, IN ACCORDANCE WITH MOE REGULATION.
  - ELEVATION, SIZE, MATERIAL TYPE, AND LOCATION OF THE EXISTING SANITARY SEWER MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK.
  - BEDDING AND COVER SHALL BE GRANULAR 'A' MATERIAL, AND CONFORM TO REQUIREMENTS OF OPSS 802 SERIES FOR APPLICABLE MATERIAL AND SOIL CONDITIONS.
  - MINIMUM DEPTH OF COVER SHALL BE 1.2m MEASURED FROM TOP OF PIPE TO FINISHED GROUND. INSULATION FOR SEWER SHALL BE IN ACCORDANCE WITH OPSS 1109.030 - INSULATION FOR SEWERS AND WATERMANS IN SHALLOW TRENCHES, WHERE 1.2m COVER IS NOT ACHIEVABLE.
  - REFER TO SPECIFICATION FOR SEWER MATERIAL.
  - TOPSOIL IN ACCORDANCE WITH OPSS 802 AND SEED IN ACCORDANCE WITH OPSS 804
  - RESTORATION OF EXISTING PAVEMENT SHALL INCLUDE THE FOLLOWING MINIMUM PAVEMENT STRUCTURE  
 -40mm HL3  
 -50mm HL8  
 -450mm GRANULAR 'A'

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé

Revision / Révision	
A	A Detail number / No. du détail
B	B Location dwg. no. / No. sur dessin
C	C Drawing sheet no. / No. du dessin



Project title / Titre du projet  
**REHABILITATION OF MEN'S BARRACKS BUILDING BUTLER'S BARRACKS**

NIAGARA-ON-THE-LAKE ONTARIO

Drawing title / Titre du dessin  
**SANITARY PLAN**

Scale / Echelle 1:500	
Drawn by / Dessiné par DY	Date 06/10/16
Designed by / Conçu par EB	Date 06/10/2016
Checked by / Vérifié par	Date
Approved by / Approuvé par	Date

Project No./No. du projet 3Q224201	Client No./No du Client	Sheet No./Feuille No. <b>C1</b>
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