

# QANP OFFICE BUILDING RENOVATION

## RESOLUTE, NUNAVUT

Item	2015 National Building Code Data Matrix Parts 3 & 9				NBC Reference				
					References are to Division B unless noted [A] for Division A or [C] for Division C.				
1	<b>Project Description:</b> QANP OFFICE RENOVATION		<input type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Change of Use	<input type="checkbox"/> Part 11 <input checked="" type="checkbox"/> Alteration	Part 9 1.1.2 [A]				
2	<b>Major Occupancy(s)</b>	Group C - Residential			9.10.2.1				
3	<b>Building Area (m<sup>2</sup>)</b>	Existing 101.6 m <sup>2</sup>	New 12.5 m <sup>2</sup>	Total 114.1 m <sup>2</sup>	1.4.1.2[A]				
4	<b>Gross Area (m<sup>2</sup>)</b>	Existing 199.7 m <sup>2</sup>	New 12.5 m <sup>2</sup>	Total 212.2 m <sup>2</sup>	1.4.1.2[A]				
5	<b>Number of Storeys</b>	Above grade 2	Below grade 0		3.2.2.83				
6	<b>Height of Building (m):</b>	6.0 m			3.2.1.1 & 9.10.4				
7	<b>Number of Streets/Fire Fighter Access:</b>	2			9.10.20				
8	<b>Building Classification</b>	Group C, up to 2 Storeys			9.10.2				
9	<b>Sprinkler System Proposed</b>	<input type="checkbox"/> entire building <input type="checkbox"/> basement only <input type="checkbox"/> in lieu of roof rating <input checked="" type="checkbox"/> not required			3.2.2.83 & 9.10.8.2				
10	<b>Standpipe required</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			3.2.5.8				
11	<b>Fire Alarm required</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			9.10.18.2				
12	<b>Water Service/Supply is Adequate</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			3.2.5.7				
13	<b>High Building</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			3.2.6				
14	<b>Permitted Construction</b>	<input type="checkbox"/> Combustible	<input type="checkbox"/> Non-combustible	<input checked="" type="checkbox"/> Both	3.2.2.20-83				
	<b>Actual Construction</b>	<input type="checkbox"/> Combustible	<input type="checkbox"/> Non-combustible	<input checked="" type="checkbox"/> Both					
15	<b>Mezzanine(s) Area m<sup>2</sup></b>	N/A			3.2.1.1.(3)-(8)				
16	<b>Occupant load based on</b>	<input checked="" type="checkbox"/> m <sup>2</sup> /person	<input type="checkbox"/> design of building		3.1.17				
	1st Floor	Occupancy D	Load 5	persons					
	2nd Floor	Occupancy D	Load 5	persons					
18	<b>Hazardous Substances</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			3.3.1.2(1)				
19	Required Fire Resistance Rating (FRR)	Horizontal Assemblies		Listed Design No. or Description (SG-2)	9.10.8.1.				
		FRR (Hours)							
		Floors (SF)	45 min.						
		Roof	Not Required						
		FRR of Supporting Members		Listed design No. Or Description (SG-2)					
	Wall (FF)	45 min. or Non.Comb.							
	Roof	Not Required							
20	<b>Spatial Separation - Construction of Exterior Walls</b>				9.10.14.4				
	Wall	Area of EBF (m <sup>2</sup> )	L.D. (m)	L/H or H/L	Permitted Max. % of Openings	Proposed % of Openings	FRR (Hours)	Listed Design or Description	Comb. or non comb.
	North	61.1 m <sup>2</sup>	13.12 m	N/A	100	N/A	N/A		Either
	South	61.32 m <sup>2</sup>	12 m	N/A	100	N/A	N/A		Either
	S. Vest.	5.20 m <sup>2</sup>	13.1 m	N/A	100	N/A	N/A		Either
	East	32.47 m <sup>2</sup>	14.3 m	N/A	100	N/A	N/A		Either
	E. Vest.	13.70 m <sup>2</sup>	12.05m	N/A	100	N/A	N/A		Either
	West	35.5 m <sup>2</sup>	8.47 m	N/A	100	N/A	N/A		Either
	W. Vest.	8.67 m <sup>2</sup>	7.55 m	N/A	100	N/A	N/A		Either

Item	2015 National Building Code Data Matrix Parts 3 & 9		NBC Reference
21	<b>Basement Fire Compartment Chase Rating</b>	N/A	3.2.1.1.(3)-(8)
22	<b>Maximum Travel Distance:</b>	To at least one Exit: 1st Floor: 40m; 2nd Floor: 25m	3.4.2.5f 9.9.7.4
23	<b>Number of Required Exits</b>	1 Exit needed for second floor as travel distance is under 25 meters and floor area is under 200 m <sup>2</sup>	9.9.8.2
24	<b>FRR Requirements:</b>	Service Room, 1 hour separation	3.6.2.1/9.10.10.3
25	<b>Fire Protection for Closures:</b>	FRR of Fire Separation 45min 1hr	Min FRR of Closure 45min 45 min
26	<b>Provision for Fire Fighting</b>	Unobstructed Window or Access Panel shall be provided for every 15m of wall. Size: Min.1100 mm by 550 mm <input checked="" type="checkbox"/> Yes	3.2.5.1
27	<b>Ceiling Heights</b>	The height of every room and space shall be sufficient so that the ceiling or ceiling fixture do not obstruct movement of actives below.	3.7.1.1
28	<b>Fire Separation of Exits</b>	The exit stairway is to have a 45 minute rated enclosure	9.9.4.2
29	<b>Exiting Through a Lobby</b>	Not more than one exit from a floor area above or below the first storey is permitted to lead through a lobby service rooms are not permitted to open directly onto such lobby	9.9.8.5
27	<b>Plumbing fixtures required</b>		3.7.2.2 3.7.2.3 3.8.2.8
	<b>Water closets:</b>	2 provided, shared between genders	
	<b>Lavatories:</b>	2 required, 1 in each W/C	
28	<b>Barrier-free design applies to this building:</b>	Yes, first floor only	9.5.2
29	<b>Barrier-free entrances:</b>	Required at one entrance	9.5.2.2
30	<b>Power door operators at all entrance doors are required:</b>	Required, 1 entrance	3.8.2.7
31	<b>Barrier free path of travel, including exterior walks, and ramps:</b>	Required, exterior walk from sidewalk to one entrance	9.5.2 9.8
32	<b>Doorways and Doors:</b>	Required	9.9.6
33	<b>Water Closet &amp; Stall Conformance:</b>	Ground floor W/C only - Required.	3.8.3.11 3.8.3.13
34	<b>Lavatory and Mirrors Conformance:</b>	Required	3.8.3.15
35	<b>Roof Venting:</b>	1:300 venting required at underside of roof sheathing if batt insulation is used within the joist space. To be spaced on either end of the roof.	9.19.1.2
36	<b>Openings Near Unenclosed Exterior Stair/ Ramp:</b>	Unprotected openings shall be protected with wired glass in fixed steel frames or glass block... where within 3m horizontally and less than 10m below or less than 5m above the exit stair or ramp.	9.9.4.4
From National Building Code Data Matrix Parts 3 & 9, updated, 2015			

ARCHITECTURAL SHEET LIST	
Sheet Number	Sheet Name
A000	COVER & CODE MATRIX
A100	SITE PLANS
A101	EXISTING/DEMO PLANS
A102	EXISTING/DEMO REFLECTED CEILING PLANS
A103	NEW FLOOR PLANS
A104	CRAWL SPACE AND ROOF PLAN
A105	NEW REFLECTED CEILING PLANS
A201	ELEVATIONS
A301	BUILDING SECTION
A302	BUILDING SECTION
A401	INTERIOR ELEVATIONS
A402	KITCHEN PLAN & ELEVATIONS
A501	PLAN DETAILS
A600	SECTION DETAILS
A601	SECTION DETAILS
A602	SECTION DETAILS
A603	SECTION DETAILS
A604	SECTION DETAILS
A605	SECTION DETAILS
A701	STAIR PLANS & DETAILS
A702	RAMP DETAILS
A801	WINDOW & DOOR SCHEDULES
A802	FLASHING SCHEDULE & FINISH SCHEDULE
A803	FINISH PLAN & COLOUR BOARD
A804	SIDING ELEVATIONS
STRUCTURAL SHEET LIST	
Sheet Number	Sheet Name
S100	NOTES
S101	FRAMING PLAN
S102	FRAMING PLAN
S103	DETAILS
MECHANICAL SHEET LIST	
Sheet Number	Sheet Name
M001	GENERAL NOTES
M101	EXISTING/DEMO PLANS
M201	NEW GROUND FLOOR PLAN - HVAC
M202	NEW SECOND FLOOR PLAN - HVAC
M203	NEW GROUND FLOOR PLAN - DOMESTIC AND SANITARY
M301	DETAILS AND SCHEMATICS
M302	DETAILS
M401	SCHEDULES
M402	SCHEDULES
ELECTRICAL SHEET LIST	
Sheet Number	Sheet Name
E100	SPECIFICATIONS NOTES & INSTRUCTIONS
E200	LEGEND ELECTRICAL SITE PLAN
E300	SERVICE-GENERATOR DISTRIBUTION SCHEMATIC
E400	MAIN FLOOR PLAN LIGHTING LAYOUT
E401	MAIN FLOOR PLAN ELECTRICAL LAYOUT
E402	MAIN FLOOR PLAN MECHANICAL EQUIPMENT LOCATION LAYOUT
E403	MAIN FLOOR PLAN LIGHTING DEMOLITION
E500	2ND FLOOR PLAN LIGHTING LAYOUT
E501	2ND FLOOR PLAN ELECTRICAL LAYOUT
E502	2ND FLOOR PLAN LIGHTING DEMOLITION
E600	ELECTRICAL PANEL SCHEDULES
E601	MECHANICAL EQUIPMENT LIST



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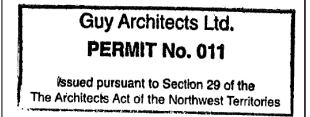
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PROJECT  
**QANP OFFICE BUILDING RENOVATION**

RESOLUTE, NUNAVUT

No.	DATE	ISSUED FOR
1	18/11/2022	Issued for Tender, Rev. 1

DD/MM/YY

DRAWING

**COVER & CODE MATRIX**

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWN
RWG	LM

PROJECT	SCALE
20103	<b>A000</b>

**ZONING INFORMATION**

REFERENCE: RESOLUTE BAY ZONING BY-LAW NO. 64

LEGAL ADDRESS LOT 6, BLOCK 5  
 CIVIC ADDRESS QANP OFFICE, HAMLET OF RESOLUTE, NU

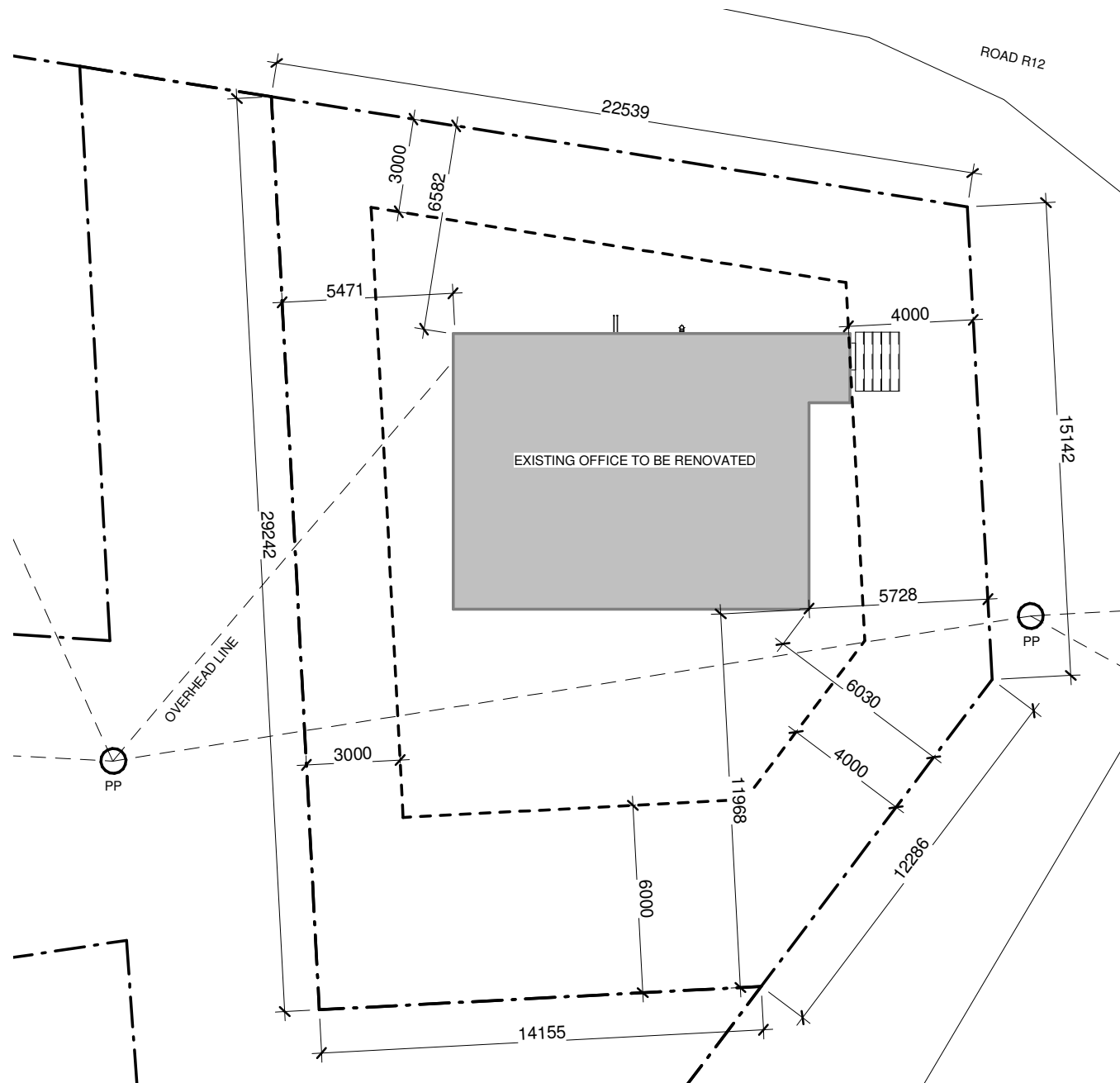
ZONING RESIDENTIAL (R)

- SETBACKS:
- FRONT 3.0 m
  - REAR 6.0 m
  - SIDE (EXTERIOR) 4.0 m
  - SIDE (INTERIOR) 3.0 m

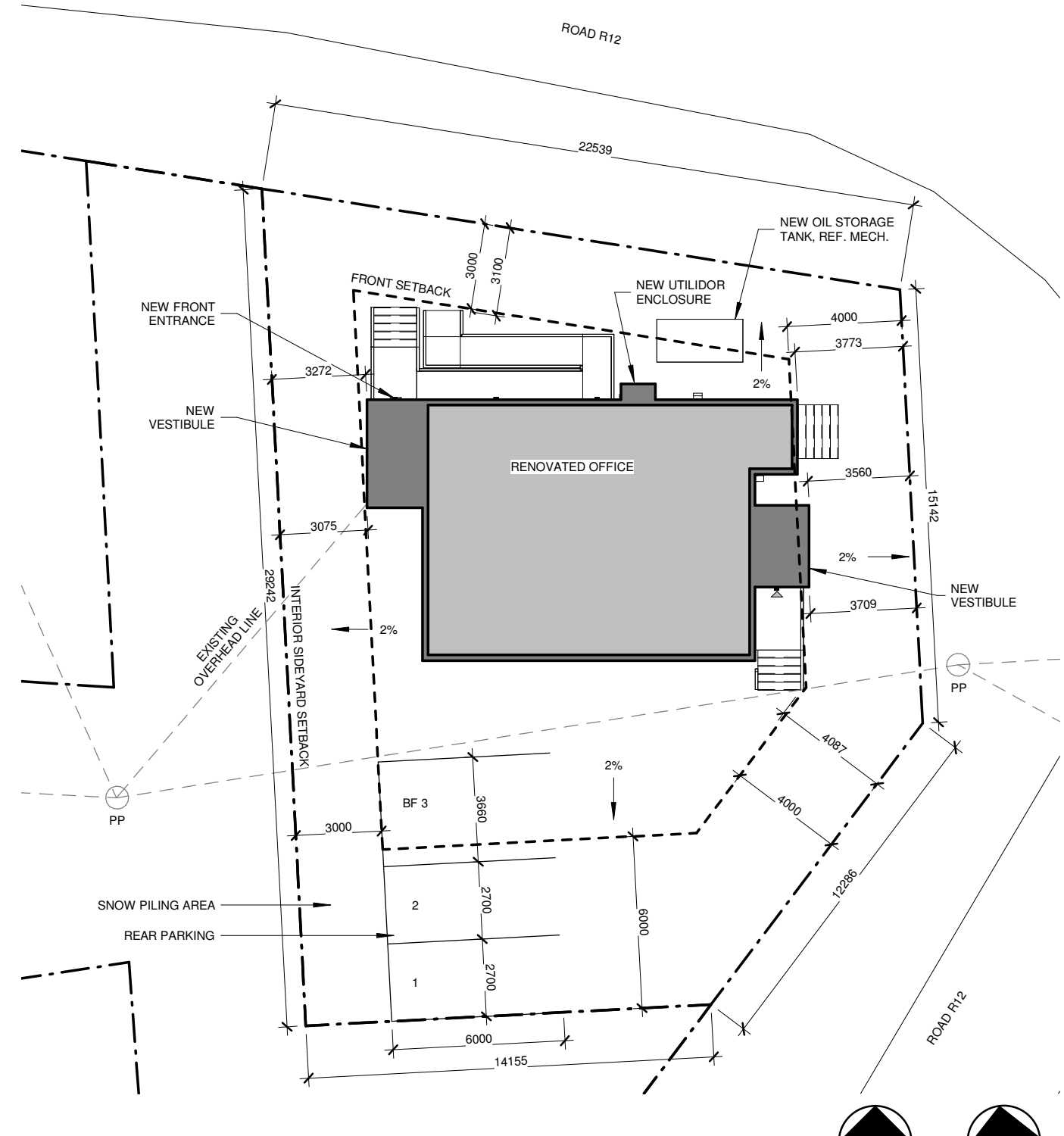
MAX. BUILDING HEIGHT (R) 8.5 m (26 ft.); PROPOSED (MAX. ADDITION): 5.89 m

A COVERED/SCREENED AREA FOR GARBAGE IS NOT REQUIRED.

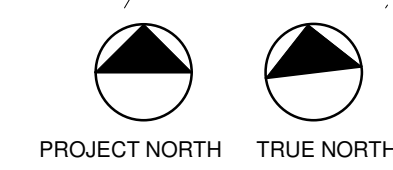
PARKING: 1 SPACE PER DWELLING UNIT: TOTAL REQUIRED 2 PARKING SPACES, 3 PROVIDED.



**1** EXISTING SITE PLAN  
1 : 200



**2** NEW SITE PLAN  
1 : 200



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 BUILDING  
 RENOVATION**

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DRAWING

**SITE PLANS**

DO NOT SCALE FOR DIMENSIONS

DESIGN RWG	DRAWN LM
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PROJECT  
20103

SCALE  
1 : 200

**A100**



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DRAWING

**EXISTING/DEMO  
PLANS**

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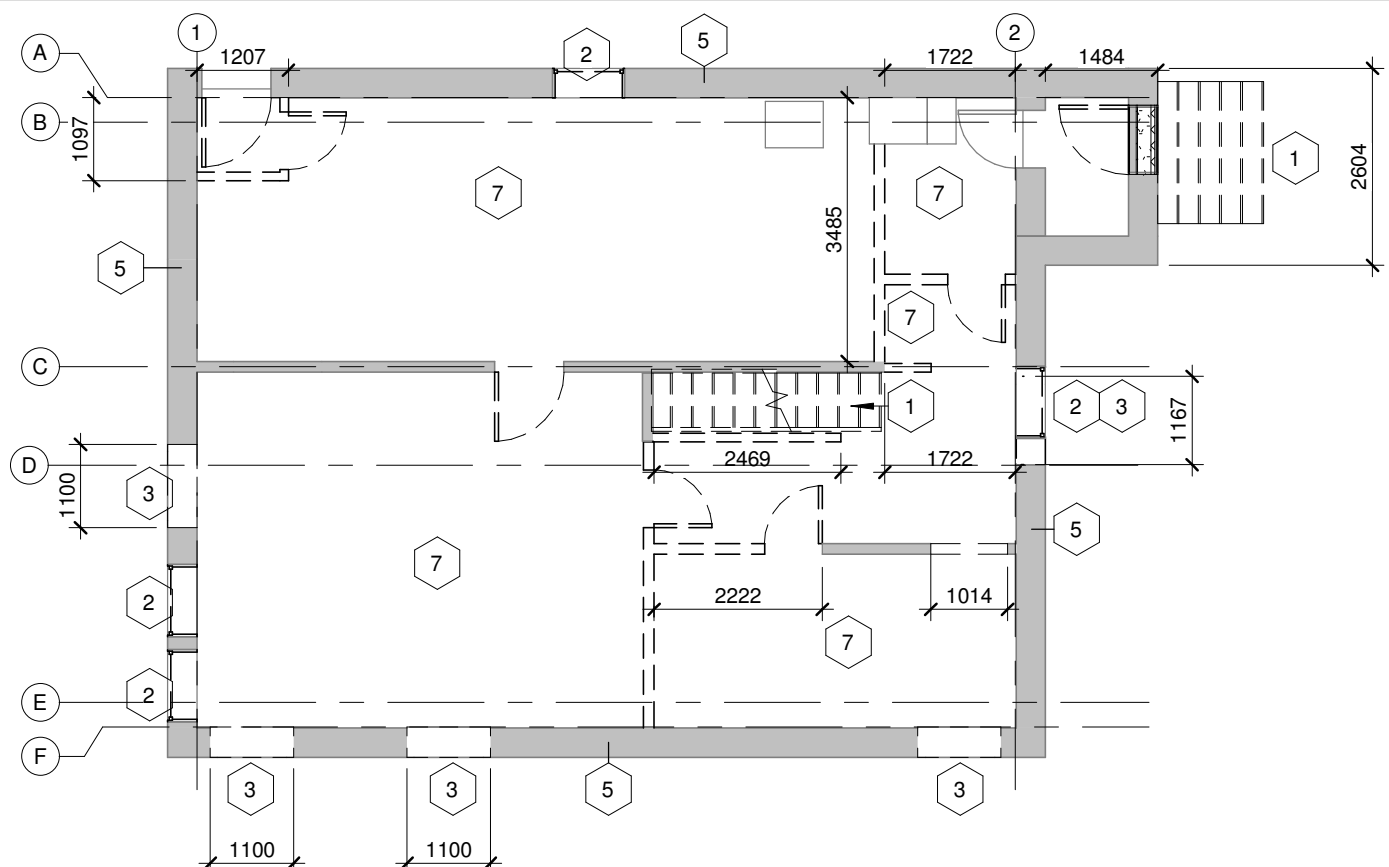
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RWG

DRAWN  
LM

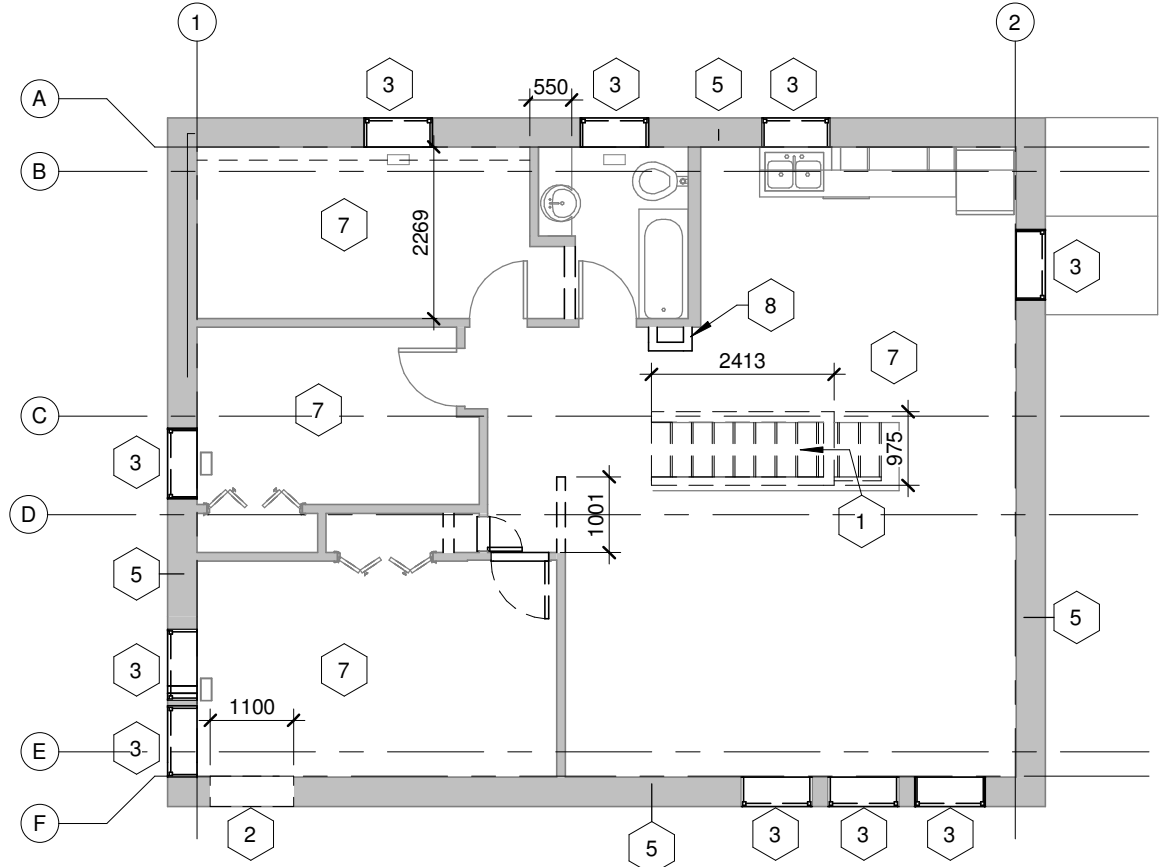
PROJECT  
20103

SCALE  
1 : 100

**A101**



**1** EXISTING/DEMO GROUND FLOOR PLAN  
1 : 100

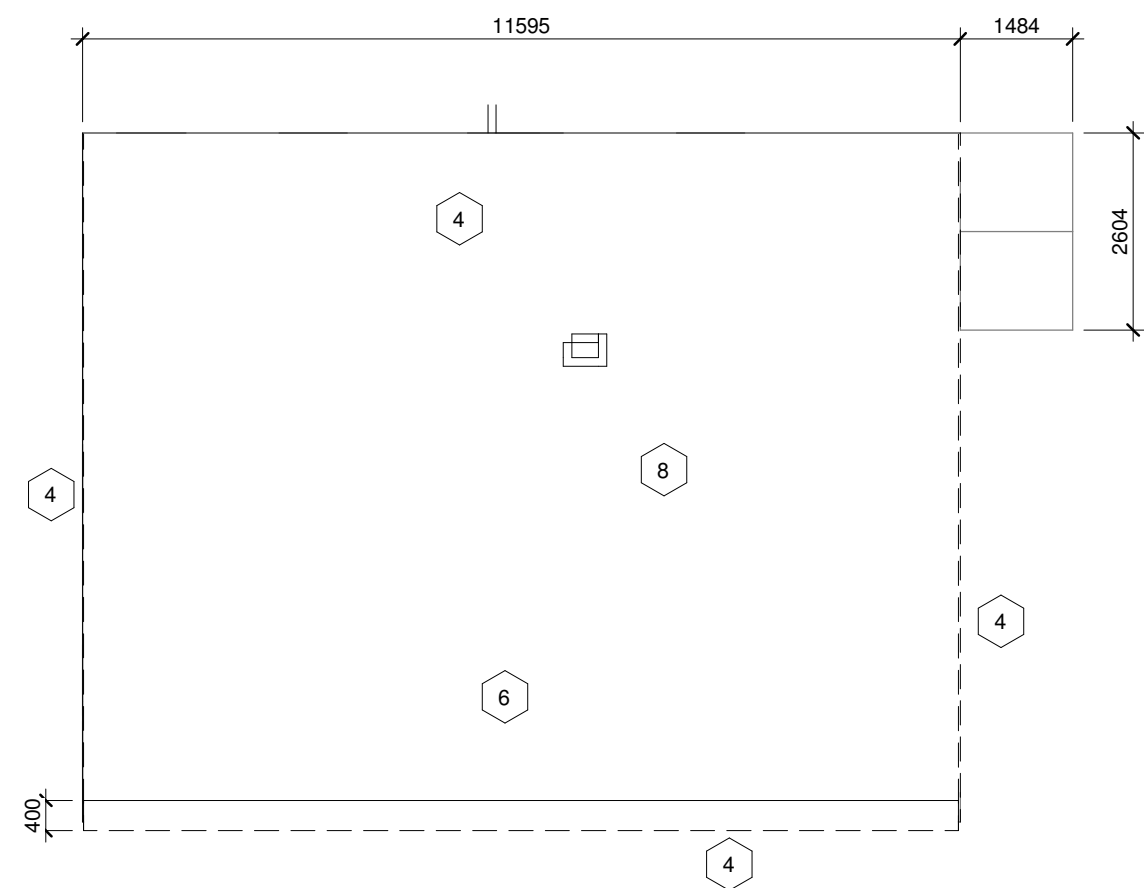


**2** EXISTING/DEMO SECOND FLOOR PLAN  
1 : 100

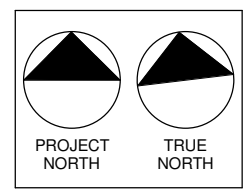
**LEGEND**

- TO BE DEMOLISHED
- EXISTING ASSEMBLY
- 1** STAIR TO BE REMOVED, REF. STRUCT. FOR NEW FLOOR OPENING
- 2** WINDOWS TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING WINDOW HEADER KING AND JACK STUD, PROVIDE NEW STUDS AT THESE LOCATIONS. REF. STRUCT.
- 3** CONTRACTOR TO REMOVE FINISH AND FRAMING TO ACCOMMODATE FOR NEW WINDOW/DOOR FRAMING & ROUGH OPENINGS, REF. STRUCT.
- 4** CONTRACTOR TO TRIM ROOF STRUCTURE TO BE FLUSH WITH EXISTING OUTSIDE FACE OF EXTERIOR SHEATHING. PROVIDE 38x140 BLOCKING AT ROOF RIM JOIST FOR CONTINUOUS FRAMING & BACKING FOR NEW.
- 5** CONTRACTOR TO REMOVE EXISTING SIDING AND WEATHER BARRIER TO EXPOSE BUILDING SHEATHING ON THE EXTERIOR FACE OF THE BUILDING.
- 6** CONTRACTOR TO REMOVE EXISTING ROOFING AND INSULATION TO THE TOP OF JOIST SHEATHING, REMOVE BATT INSULATION IN JOIST SPACE
- 7** CONTRACTOR TO REMOVE ALL FLOORING, CEILING GWB, AND WALL GWB FINISH TO EXPOSE STRUCTURE BEHIND. MAKE GOOD FOR NEW FINISH INSTALL.
- 8** CONTRACTOR TO ENLARGE ROOF PENETRATION OPENINGS TO 200 mm MAX.x575 mm MIN. ID. FOR UPGRADED CHIMNEYS. REF. MECH. PROVIDE BLOCKING/ FRAMING AS NEEDED

**NOTE:**  
REFER TO A102 FOR WALL ASSEMBLIES. EXTERIOR WALL ASSEMBLIES TO BE MODIFIED AS PER ASSEMBLY NOTES



**3** EXISTING/ DEMO ROOF PLAN  
1 : 100







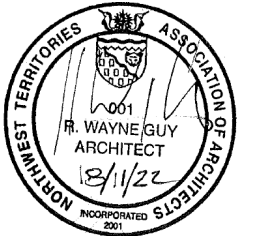


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**NEW FLOOR PLANS**

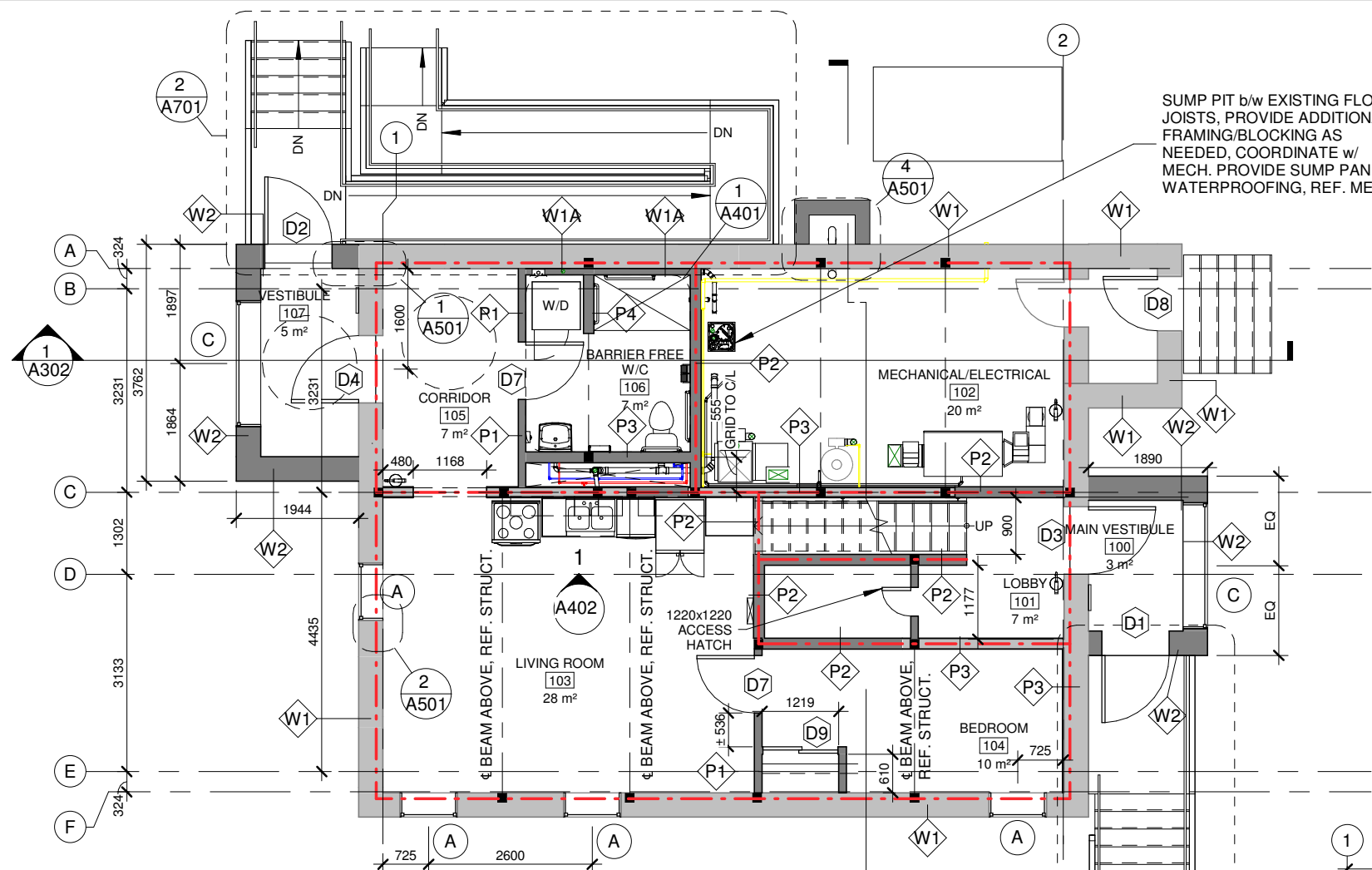
DO NOT SCALE FOR DIMENSIONS

DESIGN  
RWG  
DRAWN  
LM

PROJECT  
20103

SCALE  
1 : 100

**A103**



**1 NEW GROUND FLOOR PLAN**  
1 : 100

**ASSEMBLIES - WALLS & PARTITIONS**

**W1 - NEW UPGRADED EXTERIOR WALL**  
**1 HOUR FRR, EFFECTIVE R-60**  
NEW STEEL SIDING, REFER TO ELEVATIONS FOR LOCATIONS  
SEE BELOW W1A FOR WALL VARIATIONS  
NEW WEATHER BARRIER  
NEW 25 mm HORIZONTAL Z GIRT  
NEW 50 mm SEMI-RIGID MINERAL WOOL INSULATION (R-8.6)  
NEW 178 mm POLYISO RIGID INSULATION (R-43.5)  
NEW 229 mm ACS CLIPS @ 400 mm c/c HOR. & 1219 mm VERT.  
EXISTING 16 mm PLYWOOD SHEATHING  
EXISTING 38x89 mm WOOD STUD @ 400 mm c/c  
NEW 89 mm CLOSED-CELL SPRAY FOAM INSULATION (R-21)  
NEW 16 mm TYPE X GWB

**W1A - NEW UPGRADED INSULATION PACKAGE**  
REFER TO W1 FOR REMAINING ASSEMBLY  
NEW 38x89 mm WOOD STUD @ 400 mm c/c  
NEW 13 mm W.R. GWB

**W2 - NEW EXTERIOR WALLS/INFILL, EFFECTIVE R-60**  
NEW STEEL SIDING, REFER TO ELEVATIONS FOR LOCATIONS  
SEE BELOW W1A FOR WALL VARIATIONS  
NEW WEATHER BARRIER  
NEW 25 mm HORIZONTAL Z GIRT  
NEW 50 mm SEMI-RIGID MINERAL WOOL INSULATION (R-8.6)  
NEW 178 mm POLYISO RIGID INSULATION (R-43.5)  
NEW 229 mm ACS CLIPS @ 400 mm c/c HOR. & 1219 mm VERT.  
NEW 16 mm PLYWOOD SHEATHING  
NEW 38x89 mm WOOD STUD @ 400 mm c/c  
NEW 89 mm CLOSED-CELL SPRAY FOAM INSULATION (R-21)  
NEW 16 mm TYPE X GWB

**W3 - NEW SKIRTING WALL**  
NEW 50x50 mm WELDED WIRE MESH  
NEW 38x89 mm WOOD STUD @ 400 mm c/c w/ DIAGONAL 38x89 BRACING @ 1200 mm c/c

**P1 - NEW INTERIOR PARTITION, STC 34**  
NEW 13 mm GWB (W.R. @ WET AREAS)  
NEW 38x89 mm WOOD STUD @ 400 mm c/c  
NEW 89 mm ACOUSTIC BATT INSULATION  
NEW 13 mm GWB (W.R. @ WET AREAS)

**P2 - NEW RATED INTERIOR PARTITION**  
**1 HOUR FRR, STC 34**  
NEW 16 mm TYPE X GWB  
NEW 38x140 mm WOOD STUD @ 400 mm c/c  
NEW 140 mm ACOUSTIC BATT INSULATION  
NEW 16 mm TYPE X GWB

**P3 - NEW UPGRADED PARTITION**  
**1 HOUR FRR, STC 36**  
NEW 16 mm TYPE X GWB  
EXISTING 38x140 mm WOOD STUD @ 400 mm c/c  
EXISTING 140 mm ACOUSTIC BATT INSULATION  
NEW 16 mm TYPE X GWB

**P4 - NEW PLUMBING WALL**  
NEW 13 mm W.R. GWB  
NEW 38x140 mm WOOD STUD @ 400 mm c/c  
NEW 140 mm ACOUSTIC BATT INSULATION  
NEW 13 mm W.R. GWB

**P5 - NEW UPGRADED CHASE PARTITION, 3/4 HOUR FRR**  
NEW 16 mm TYPE X GWB  
EXISTING 38x89 mm WOOD STUD @ 400 mm c/c  
NEW 2-16 mm TYPE X GWB, CONT. ON INSIDE OF MECH. CHASE

**ASSEMBLIES - ROOFS & FLOORS**

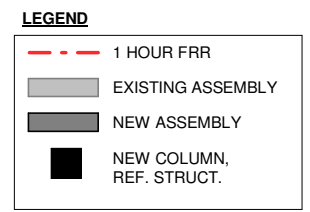
**R1 - UPGRADED ROOF ASSEMBLY, EFFECTIVE R-71**  
NEW STANDING SEAM METAL ROOFING  
NEW WEATHER SHIELD  
NEW 16 mm PLYWOOD SHEATHING  
NEW 38x286 mm ROOF JOISTS @ 400 mm c/c, LOCATED OVER EXISTING ROOF JOISTS  
NEW 286 mm SPRAY-APPLIED FOAM INSULATION (R-58)  
NEW 2-PLY 38x140 SILL PLATES AT L.B. ELEMENTS, REFER TO DETAILS  
EXISTING 2-PLY 19 mm PLYWOOD ROOF SHEATHING  
EXISTING 38x140 mm ROOF JOISTS @ 600 mm c/c  
NEW 140 mm SPRAY-APPLIED FOAM INSULATION (R-29)  
NEW 16 mm GYPSUM BOARD

**R2 - ADDITION ROOF ASSEMBLY, EFFECTIVE R-68**  
NEW STANDING SEAM METAL ROOFING  
NEW WEATHER SHIELD  
NEW 16 mm PLYWOOD SHEATHING  
NEW 50 mm POLYISO RIGID INSULATION (R-11), MECHANICALLY FASTENED  
NEW 150 mm Z GIRTS @ 400 mm c/c  
NEW 150 mm POLYISO INSULATION (R-66), ADHERED  
NEW WEATHER BARRIER  
NEW 16 mm PLYWOOD SHEATHING  
NEW 38x184 mm ROOF JOISTS @ 400 mm c/c  
NEW 184 mm SPRAY-APPLIED FOAM INSULATION (R-38)  
NEW 16 mm GYPSUM BOARD

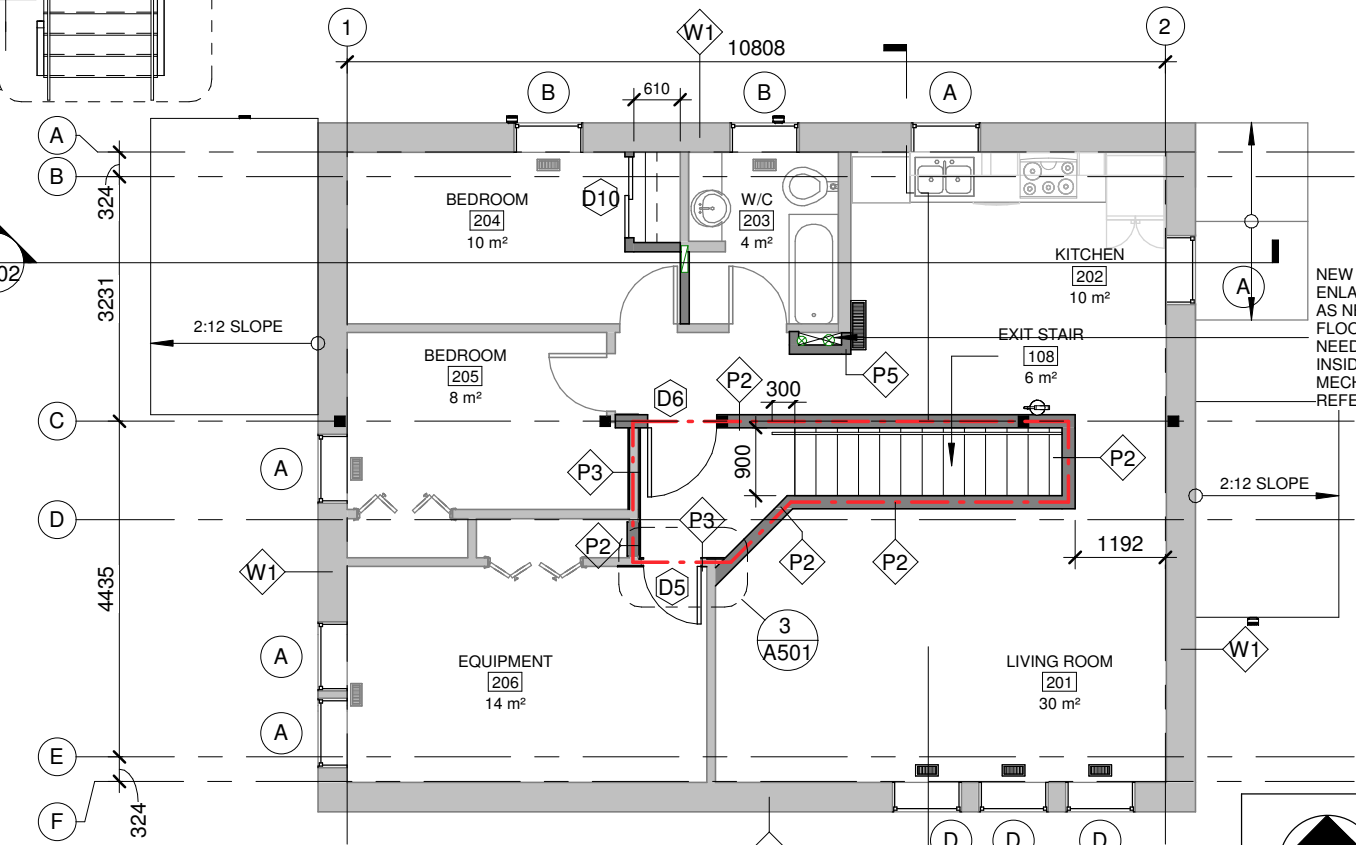
**F1 - UPGRADED GROUND FLOOR ASSEMBLY, EFFECTIVE R-42**  
NEW FLOORING, REF. FINISH PLAN  
EXISTING 16 mm PLY SUBFLOOR SHEATHING  
EXISTING 38x140 FLOOR JOISTS @ 400 mm c/c  
NEW 140 mm BATT INSULATION  
NEW 9 mm PLYWOOD SOFFIT  
NEW BLUESKIN VAPOUR BARRIER  
NEW 204 mm DEEP FIBRE GLASS CLIPS @ 900 mm PARALLEL AND @ 800 mm PERP. TO JOISTS, FASTENED TO STRUCTURE ABOVE  
NEW 25 mm DEEP Z-GIRTS @ 600 mm c/c PARALLEL TO JOISTS, FASTENED TO FIBREGLASS CLIPS  
NEW 229 mm (R-45) SPRAY-APPLIED FOAM INSULATION  
NEW WEATHER BARRIER, TYVEK  
NEW 13 mm PT PLYWOOD SOFFIT

**F2 - UPGRADED SECOND FLOOR ASSEMBLY, 1 HR RATED, STC 41, IIC 33**  
NEW FLOORING, REF. FINISH PLAN  
EXISTING 16 mm PLYWOOD SUBFLOOR SHEATHING  
EXISTING 38x140 FLOOR JOISTS @ 400 mm c/c  
NEW 76 mm ACOUSTIC BATT INSULATION  
RADIANT HEATING IN FLOOR, COORD w/ MECH.  
NEW 13 mm RESILIENT CHANNEL @ 400 mm c/c  
NEW 2-PLY 16 mm TYPE X GWB

**F3 - VESTIBULE FLOOR ASSEMBLY, EFFECTIVE R-42**  
NEW FLOORING, REF. FINISH PLAN  
NEW 16 mm PLY SUBFLOOR SHEATHING  
NEW 38x140 FLOOR JOISTS @ 400 mm c/c  
NEW 140 mm BATT INSULATION (R-22)  
NEW 9 mm PLYWOOD SOFFIT  
NEW BLUESKIN VAPOUR BARRIER  
NEW 204 mm DEEP FIBRE GLASS CLIPS @ 900 mm PARALLEL AND @ 800 mm PERP. TO JOISTS, FASTENED TO STRUCTURE ABOVE  
NEW 25 mm DEEP Z-GIRTS @ 600 mm c/c PARALLEL TO JOISTS, FASTENED TO FIBREGLASS CLIPS  
NEW 229 mm SPRAY-APPLIED FOAM INSULATION (R-47)  
NEW WEATHER BARRIER, TYVEK  
NEW 13 mm PT PLYWOOD SOFFIT

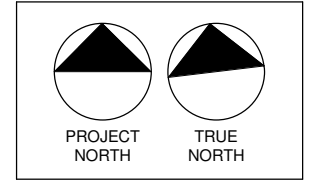


SUMP PIT b/w EXISTING FLOOR JOISTS, PROVIDE ADDITIONAL FRAMING/BLOCKING AS NEEDED, COORDINATE w/ MECH. PROVIDE SUMP PAN FOR WATERPROOFING, REF. MECH.



**2 NEW SECOND FLOOR PLAN**  
1 : 100

NEW MECH. CHASE. ENLARGE FLOOR OPENING AS NEEDED c/w NEW FLOOR FRAMING AS NEEDED. COORDINATE INSIDE DIMENSIONS WITH MECHANICAL CHIMNEYS. REFER TO DWG A101.





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PROJECT  
**QANP OFFICE BUILDING RENOVATION**

RESOLUTE, NUNAVUT

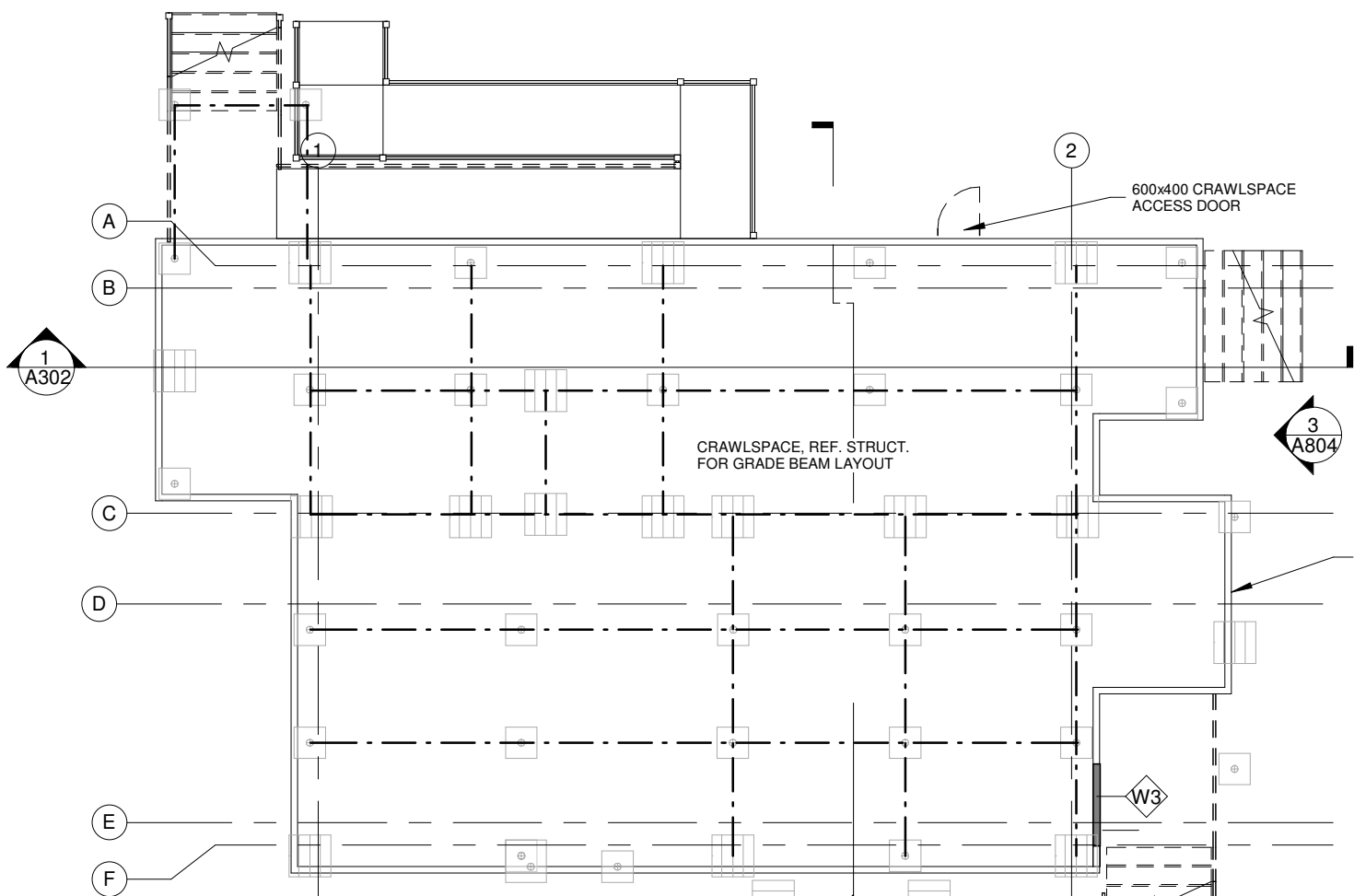
No.	DATE	ISSUED FOR
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DRAWING  
**CRAWL SPACE AND ROOF PLAN**

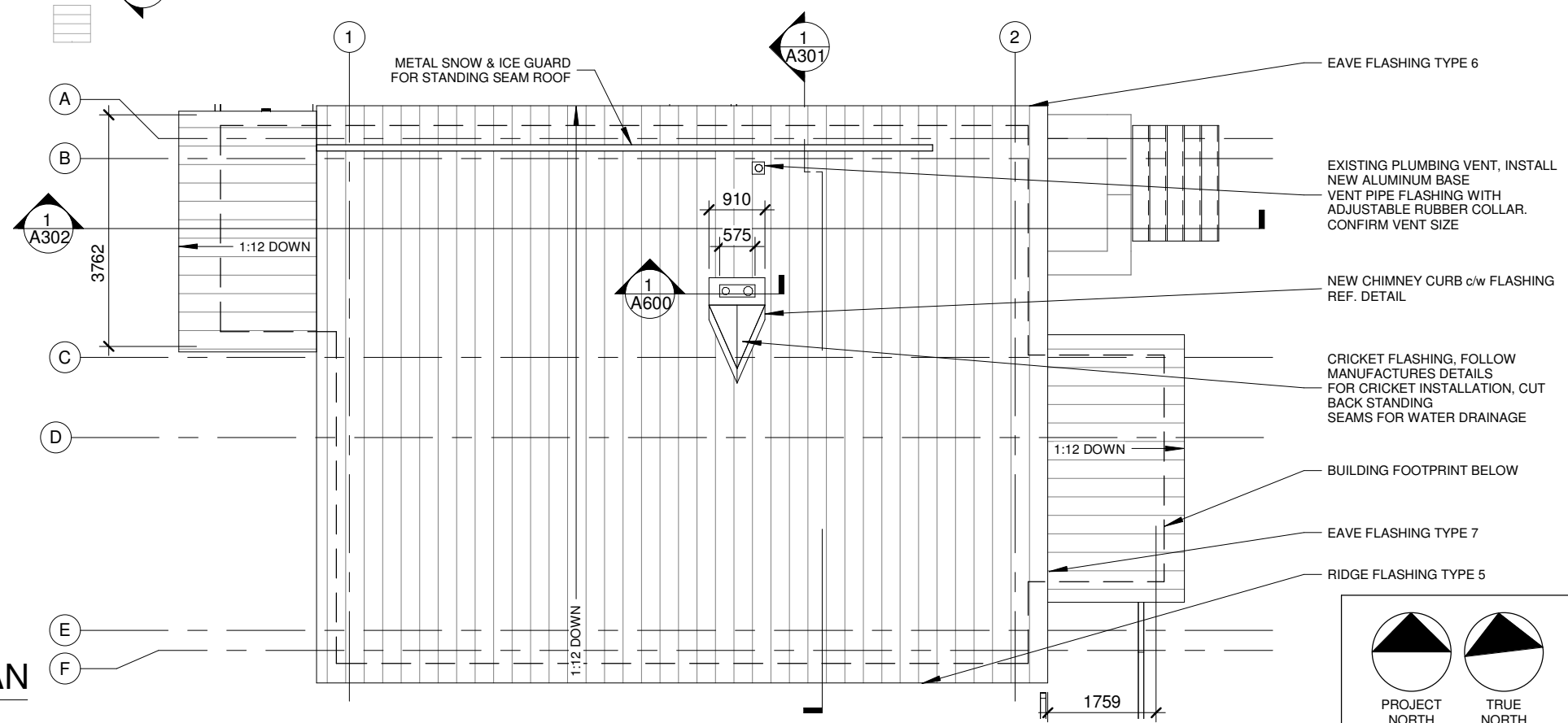
DO NOT SCALE FOR DIMENSIONS

DESIGN RWG	DRAWN LM
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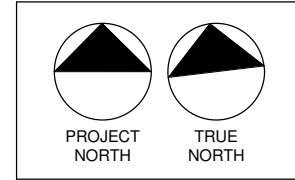
PROJECT 20103	<b>A104</b>
SCALE 1 : 100	



**1** CRAWLSPACE PLAN  
1 : 100



**2** ROOF PLAN  
1 : 100





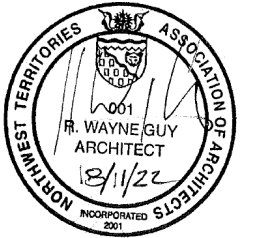




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**ELEVATIONS**

DO NOT SCALE FOR DIMENSIONS

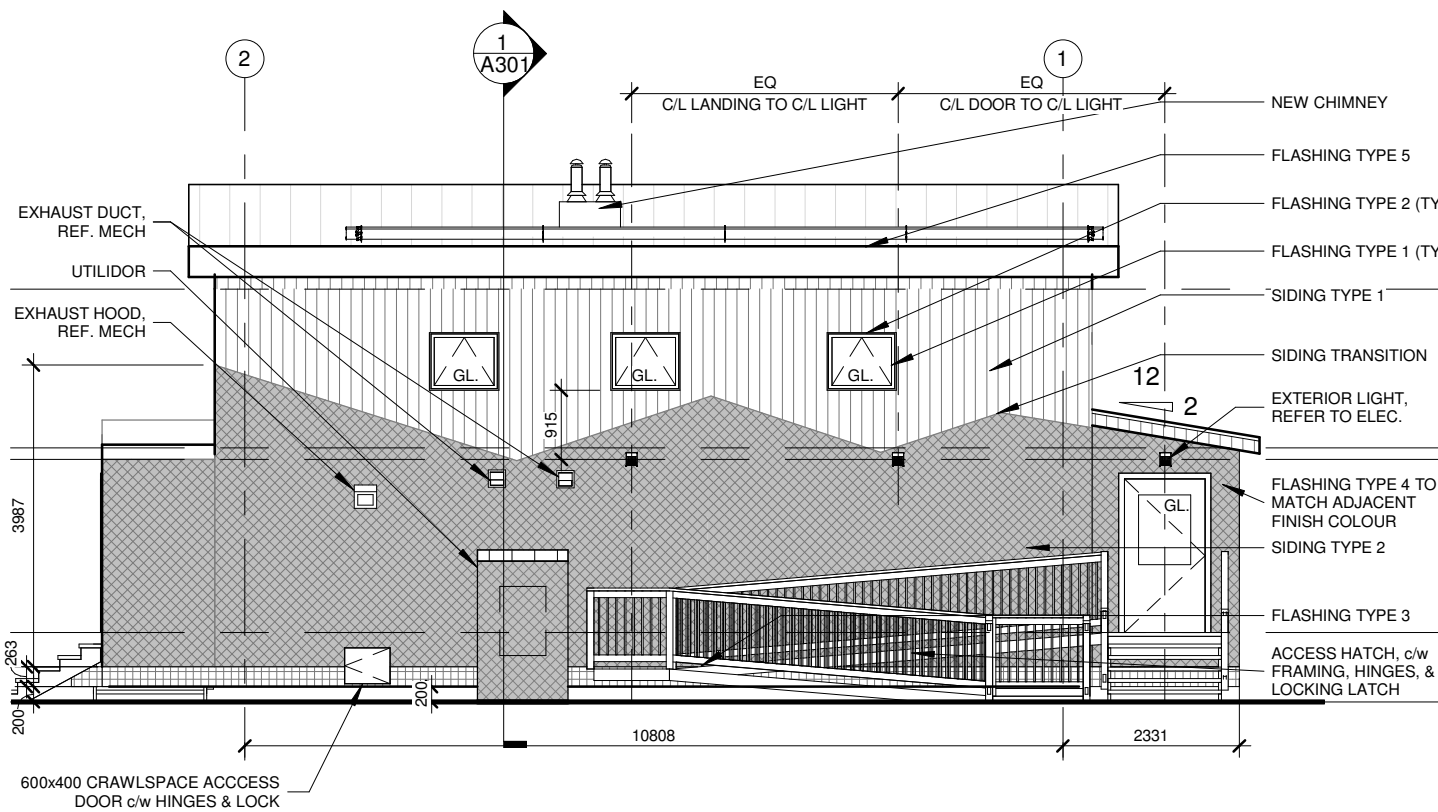
DESIGN  
RWG

DRAWN  
LM

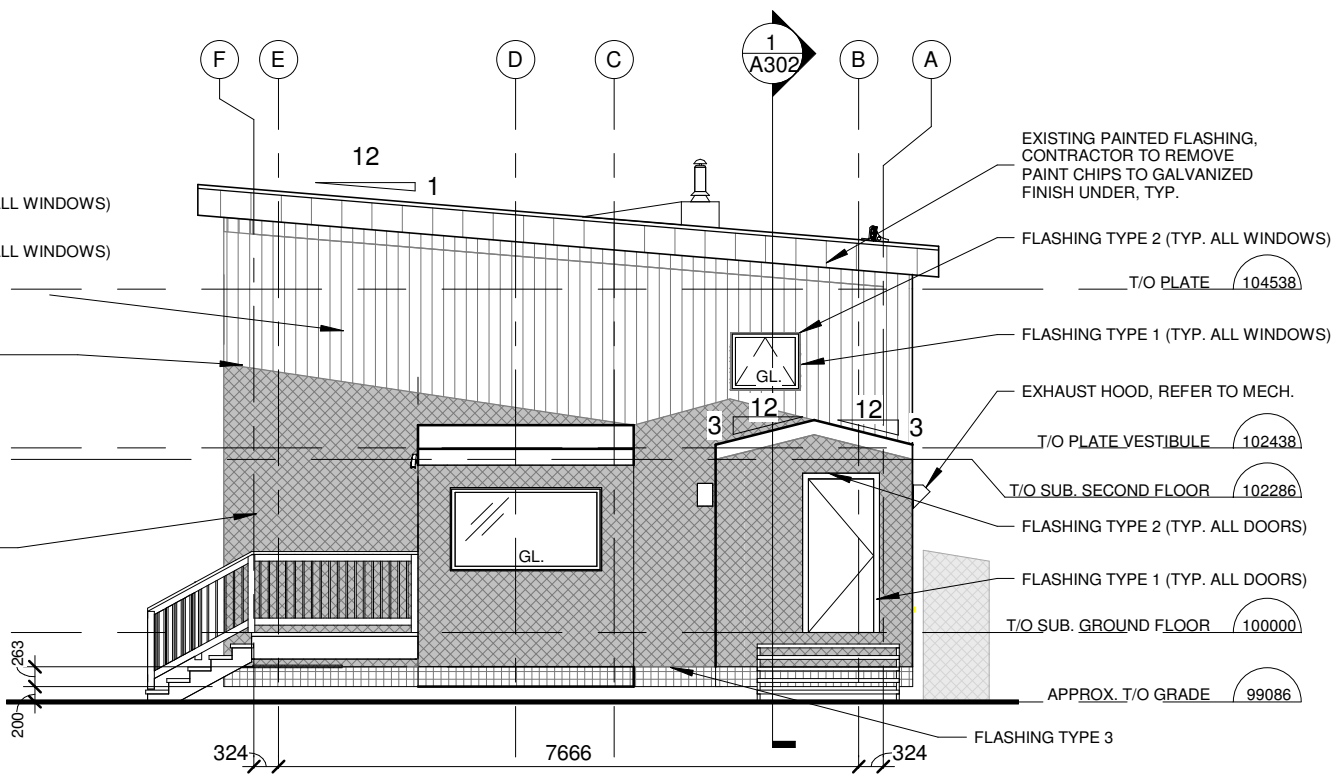
PROJECT  
20103

SCALE  
1 : 100

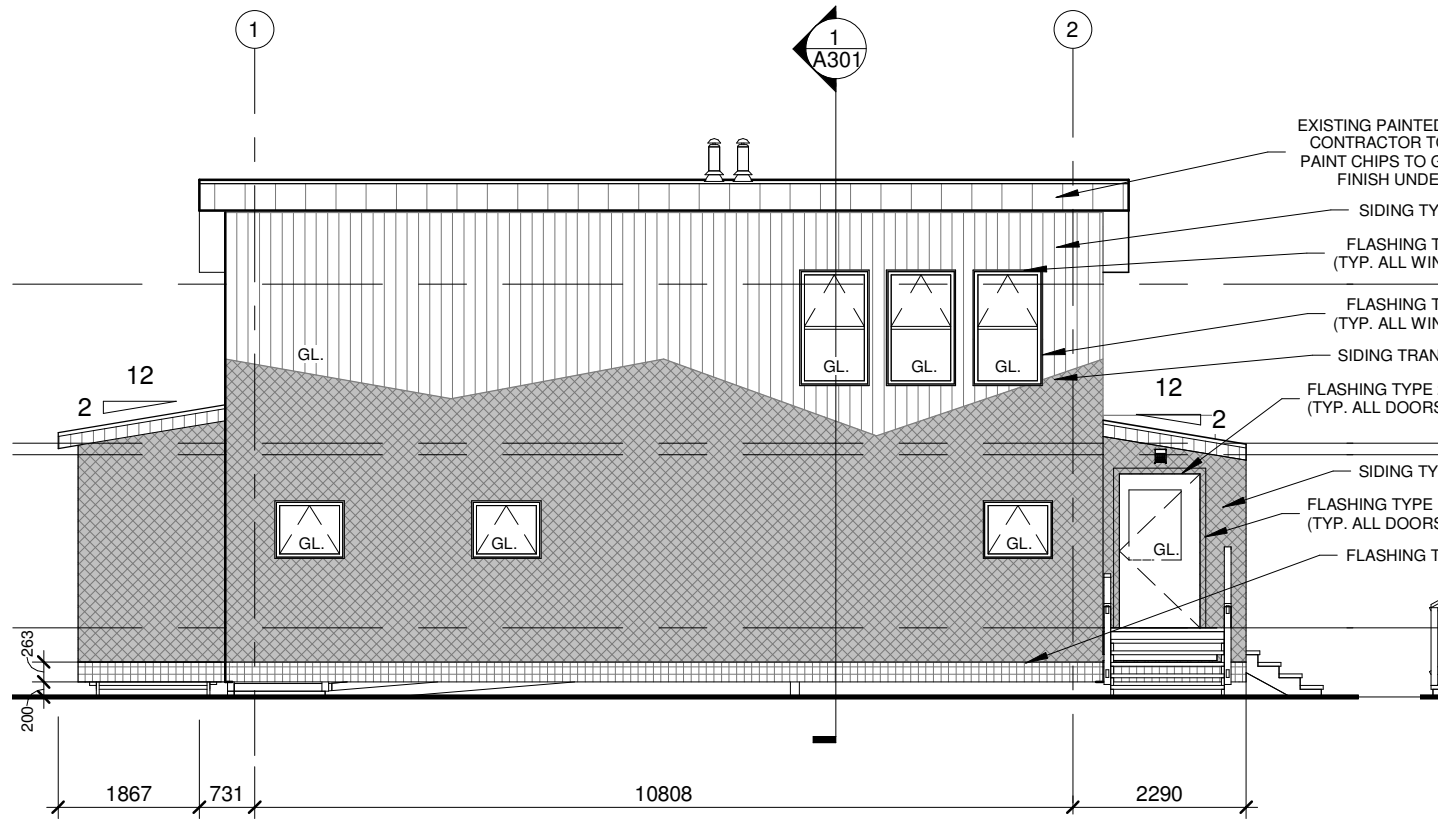
**A201**



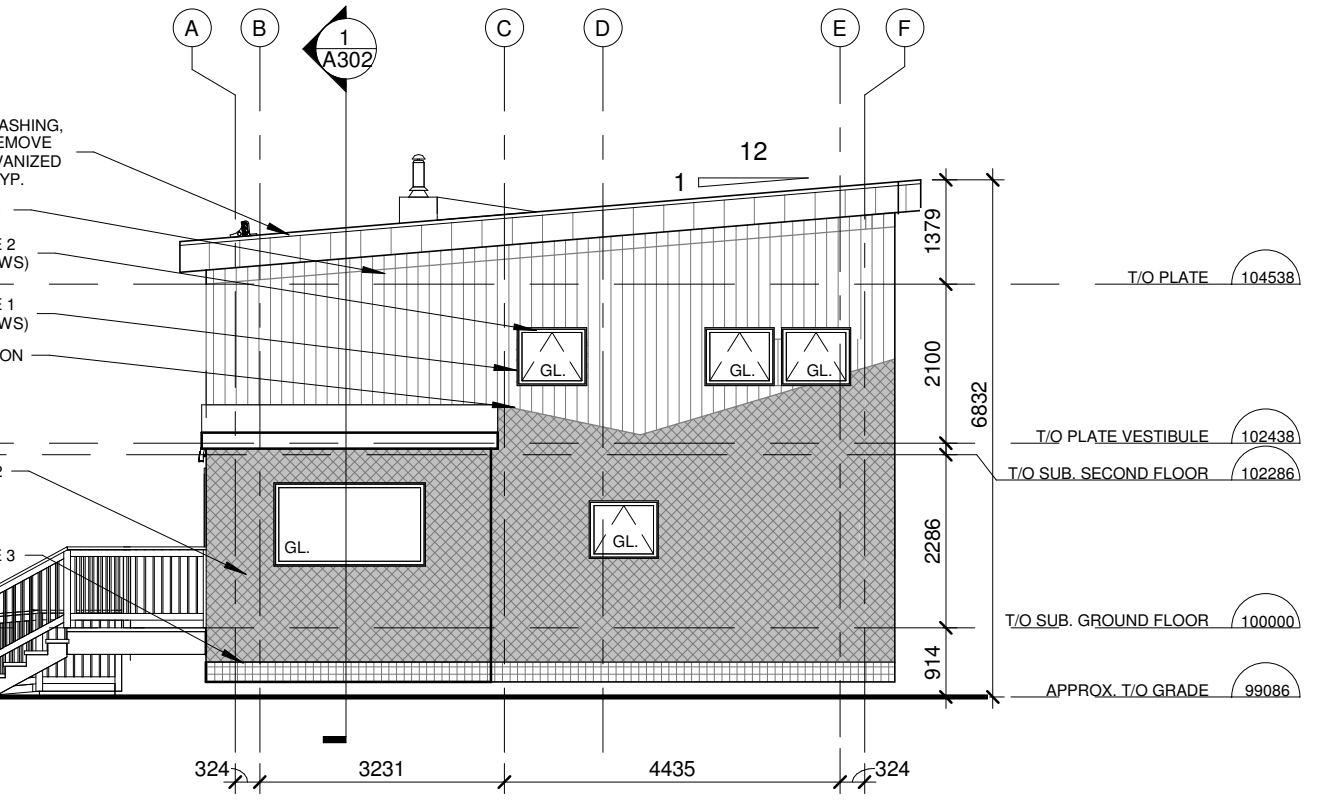
**1 NORTH ELEVATION**  
1 : 100



**3 EAST ELEVATION**  
1 : 100



**2 SOUTH ELEVATION**  
1 : 100



**4 WEST ELEVATION**  
1 : 100

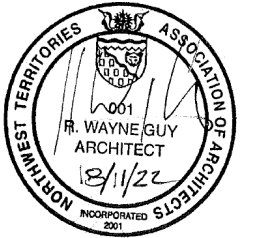




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DRAWING

**BUILDING SECTION**

DO NOT SCALE FOR DIMENSIONS

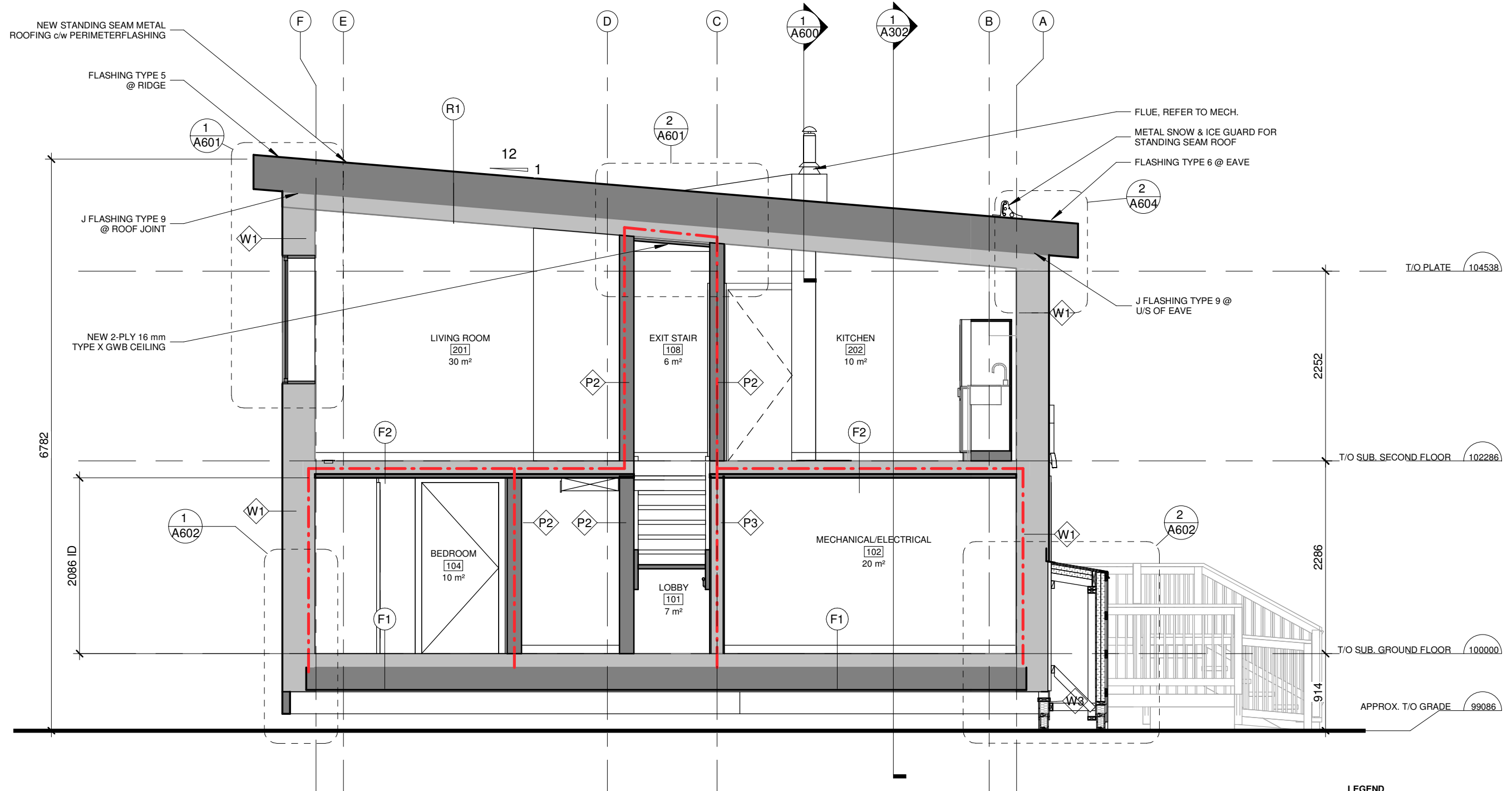
DESIGN  
RWG

DRAWN  
LM

PROJECT  
20103

SCALE  
As indicated

**A301**



**1 BUILDING SECTION**  
1 : 50

**LEGEND**

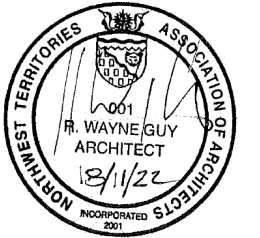
	1 HOUR FRR
	EXISTING ASSEMBLY
	NEW ASSEMBLY
	NEW COLUMN, REF. STRUCT.



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DRAWING

**BUILDING SECTION**

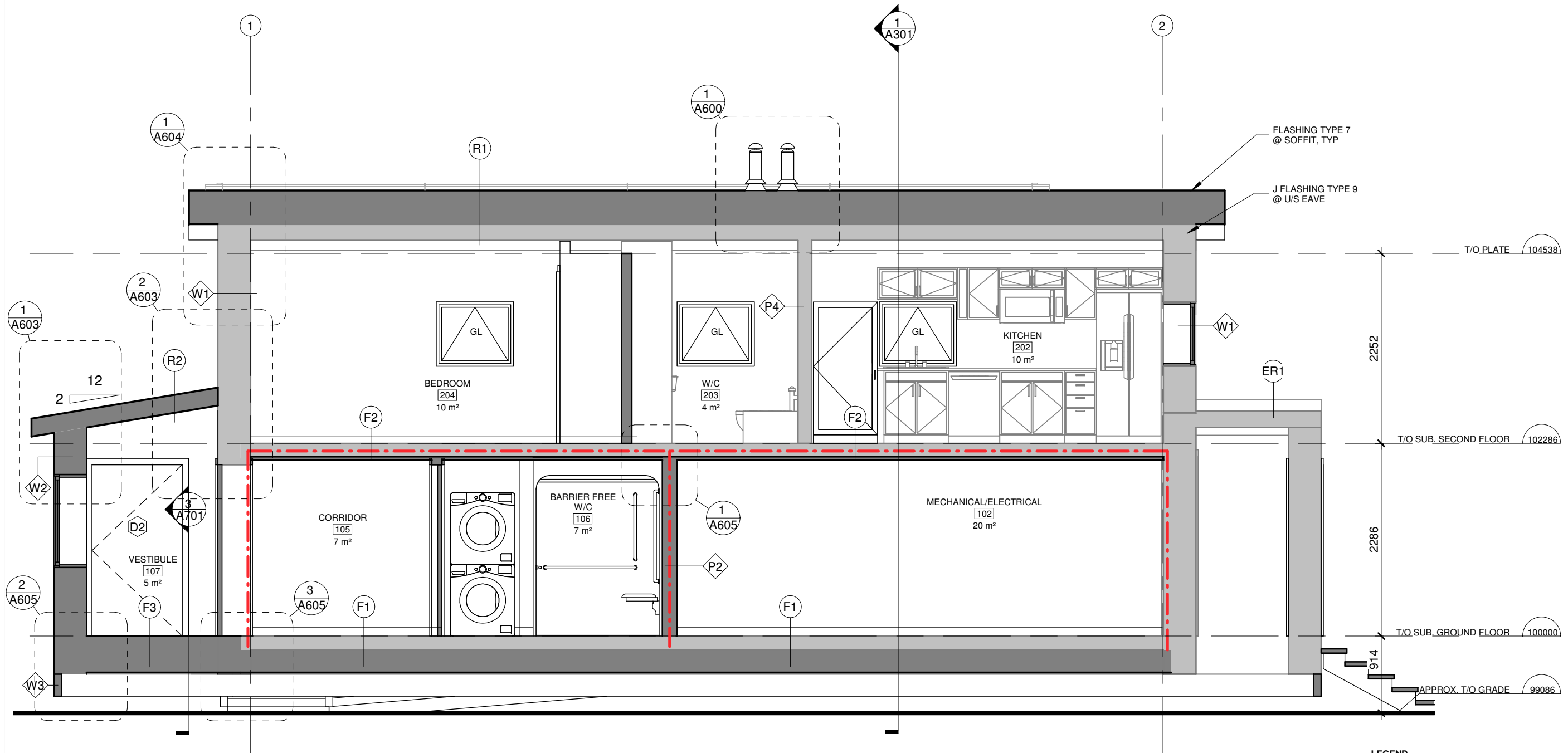
DO NOT SCALE FOR DIMENSIONS

DESIGN  
RWG

DRAWN  
LM

PROJECT  
20103  
SCALE  
As indicated

**A302**

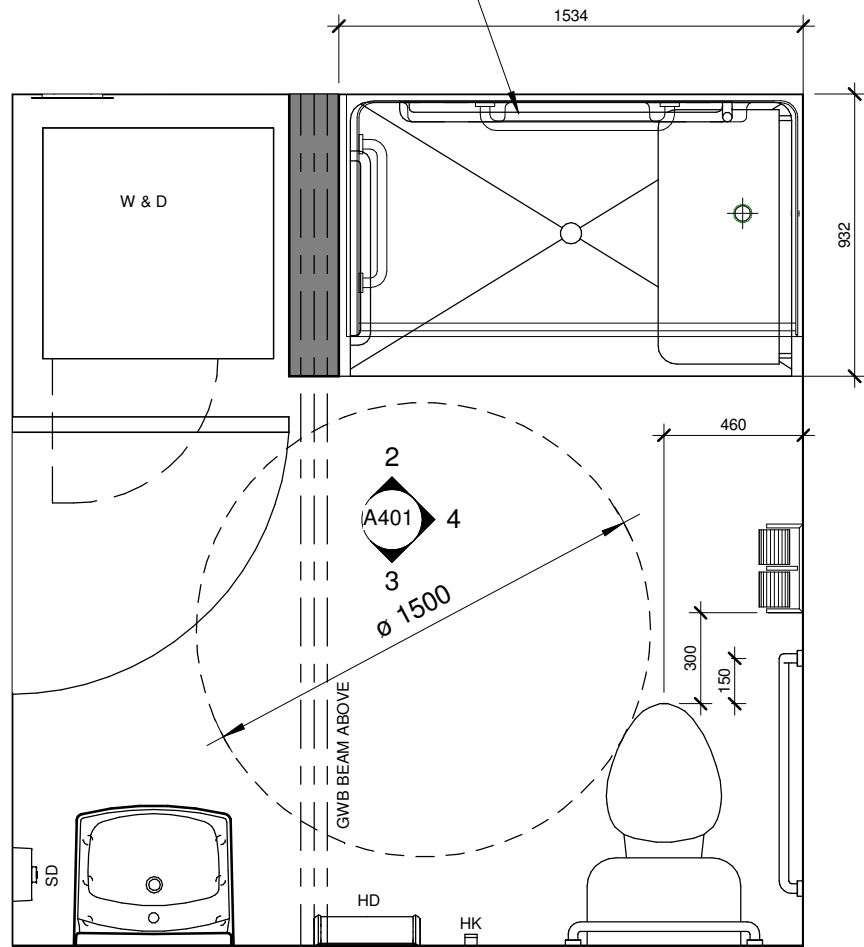


**1 BUILDING SECTION 2**  
1 : 50

**LEGEND**

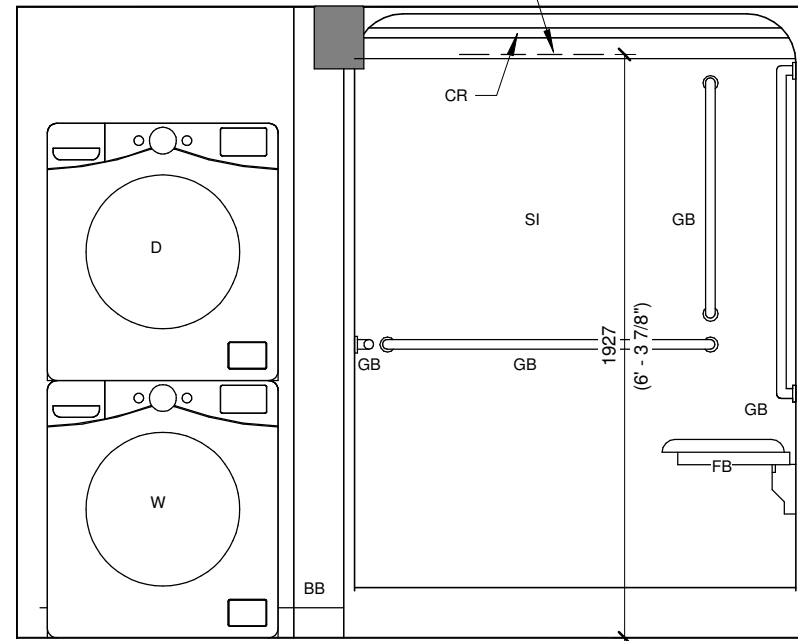
<span style="color: red;">- - -</span>	1 HOUR FRR
<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	EXISTING ASSEMBLY
<span style="background-color: #808080; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	NEW ASSEMBLY
<span style="background-color: #000000; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	NEW COLUMN, REF. STRUCT.

SHOWER INSERT INSTALLED OVER NEW RAISED FLOOR,  
38x140 mm JOISTS @ 400 mm c/c, c/w 16 mm SUBFLOOR,  
REF. MECH FOR DRAIN LOCATION AND HEAT TRACING.

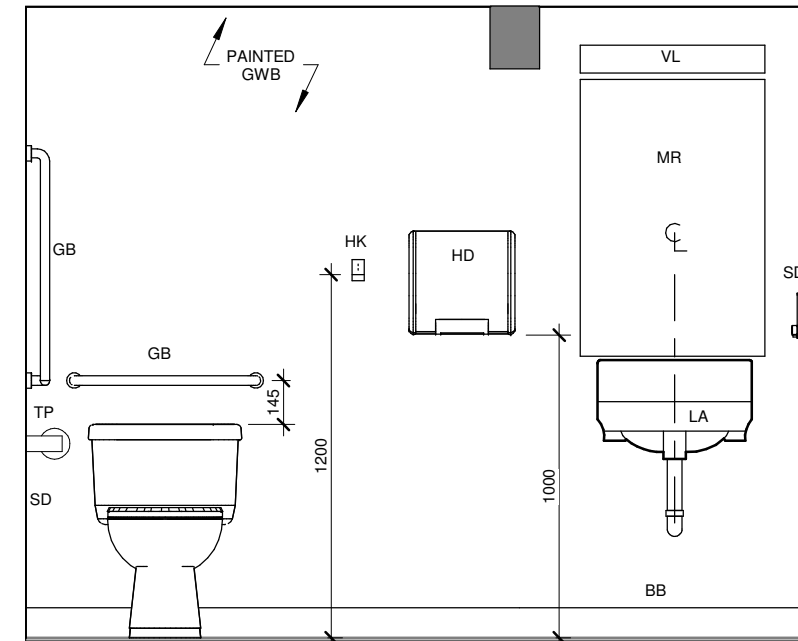


**1** MAIN FLOOR WASHROOM  
1 : 25

DRYER CHASE, COORDINATE  
w/ MECH. FRAME CHASE &  
FINISH w/ 13 mm W/R GWB

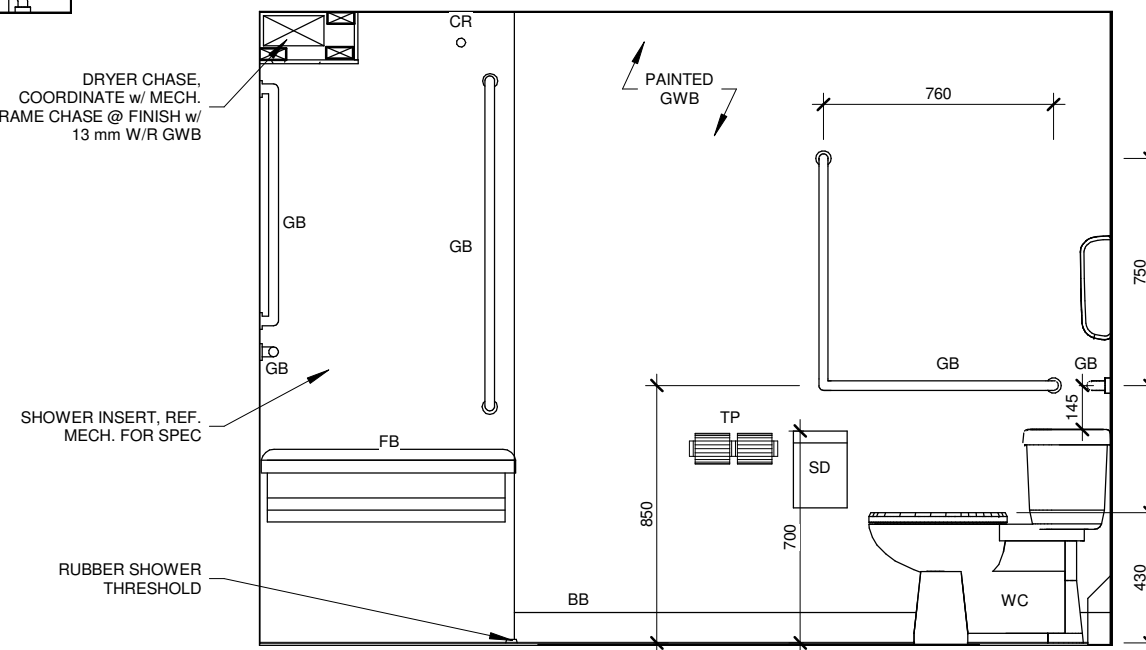


**2** M/F BATHROOM ELEV. 1  
1 : 25



**3** M/F BATHROOM ELEV. 2  
1 : 25

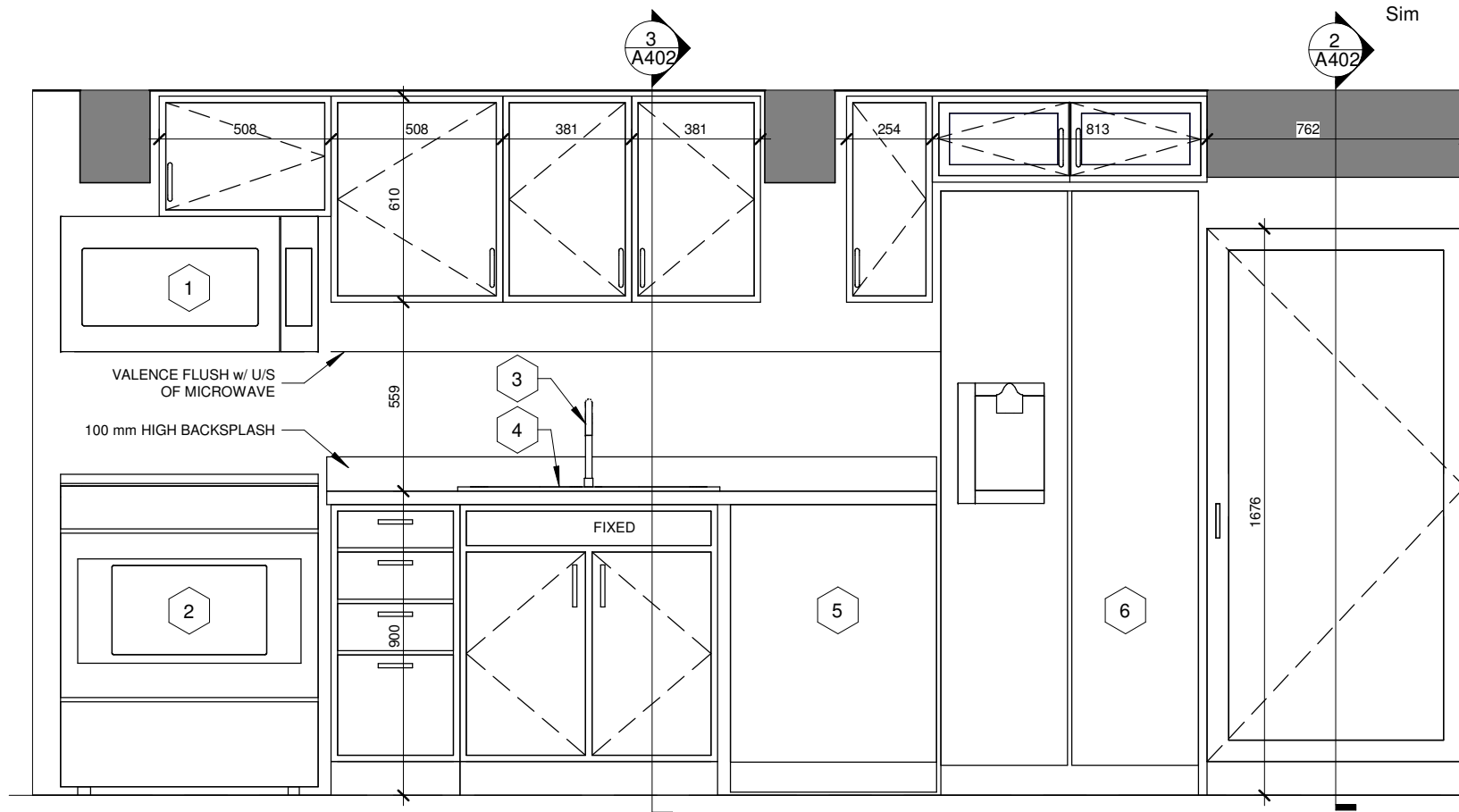
DRYER CHASE,  
COORDINATE w/ MECH.  
FRAME CHASE @ FINISH w/  
13 mm W/R GWB



**4** M/F BATHROOM ELEV. 3  
1 : 25

W/C LEGEND	
HK	COAT HOOK, 1200 mm A.F.F.
SP	SOAP DISPENSER
MR	MIRROR
HD	HAND DRYER
TP	TOILET PAPER DISPENSER
SD	SANITARY DISPOSAL
GB	GRAB BAR
LA	LAVATORY, REF. MECH.
WC	TOILET, REF. MECH.
BB	BASE BOARD
GWB	PAINTED GWB
FB	FOLDING BENCH
CR	CURTAIN ROD
SI	SHOWER INSERT, CSA COMPLIANT
VL	VALANCE LIGHT
W	WASHER
D	DRYER

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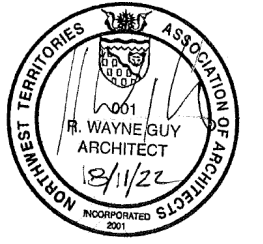
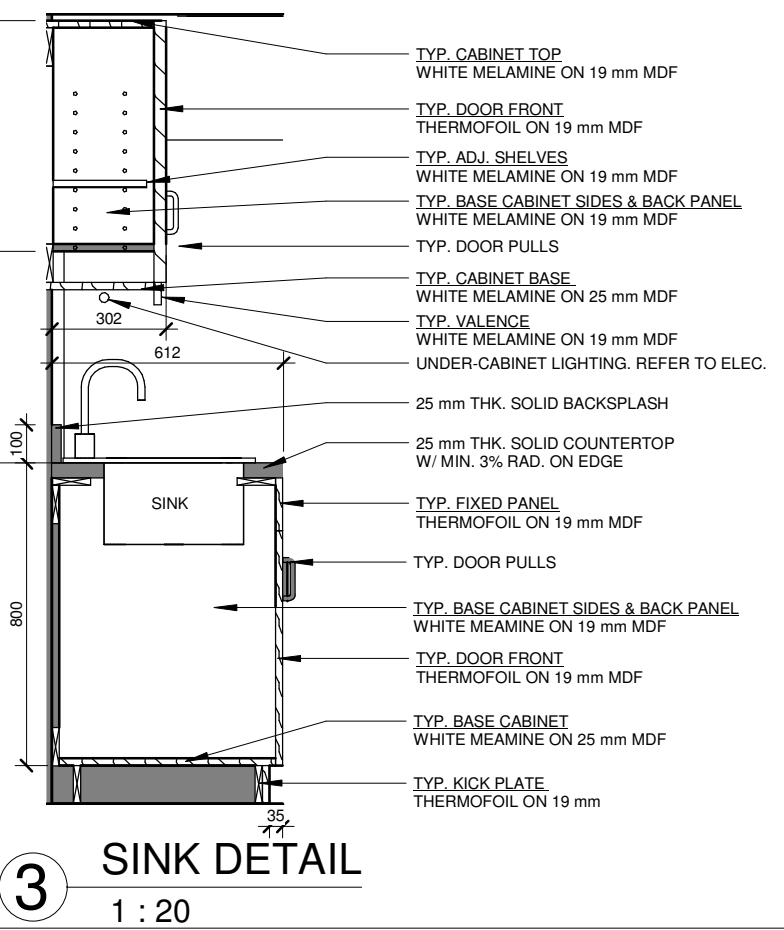
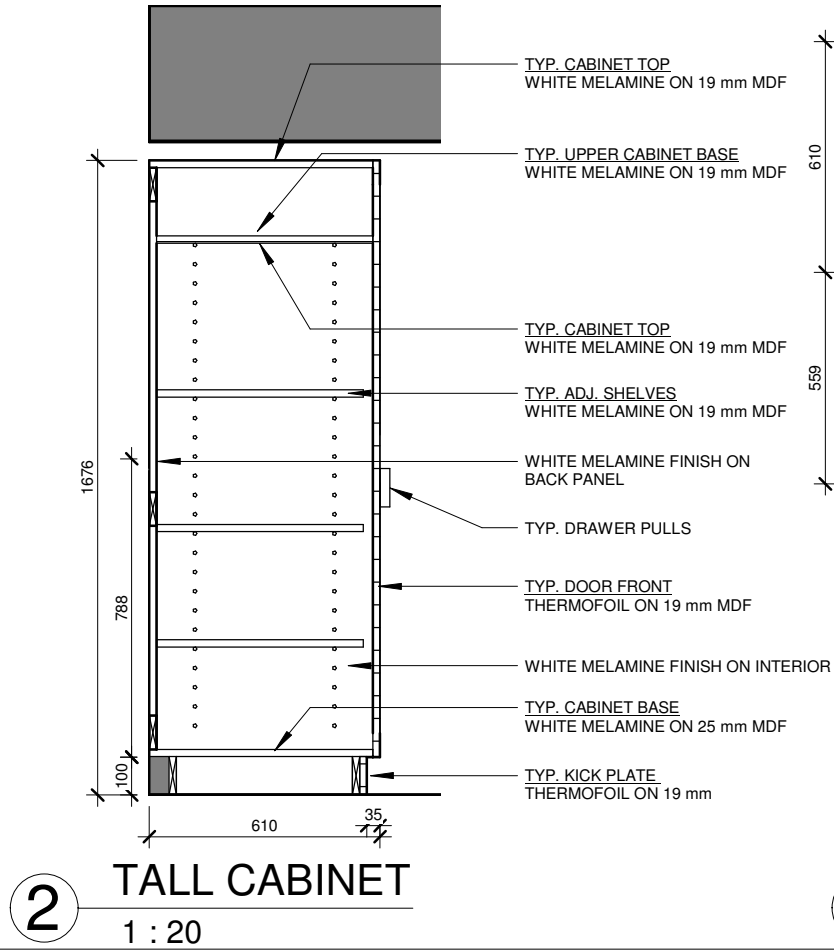
**CASEWORK NOTES:**  
 UNLESS NOTED OTHERWISE:  
 1. CONFIRM DIMENSIONS ON SITE PRIOR TO FABRICATION.  
 2. ALL CASEWORK SHALL BE FABRICATED PER AWMAC ARCHITECTURAL WOODWORK STANDARDS.  
 3. PROVIDE SHELF SUPPORTS AND BLOCKING SO THAT NO COUNTERTOP SPAN EXCEEDS 1219 mm SHALL BE PROVIDED BY MILLWORK CONTRACTOR AND SHOP DRAWINGS SHALL INDICATE EXACT LOCATION OF EACH COUNTERTOP SUPPORT.

**CASEWORK FINISHES: REFER TO A803 FOR FINISHES.**

UNLESS NOTED OTHERWISE:  
 1. EXPOSED EXTERIOR AND EXPOSED INTERIOR SURFACES TO BE THERMOFOIL, PVC EDGES TO MATCH.  
 2. SEMI-EXPOSED SURFACES TO BE WHITE MELAMINE, PVC EDGES TO MATCH.  
 3. SHELVING TO BE WHITE MELAMINE, PVC EDGES TO MATCH.  
 4. COUNTERTOPS TO BE SOLID SURFACE.

- FIXTURE LEGEND**
- 1 MICROWAVE w/ VENT:  
GE OVER-RANGE MICROWAVE, WHITE  
MODEL: JVM2160DMWW
  - 2 ELECTRIC RANGE:  
GE 762 mm FREESTANDING ELECTRIC RANGE, WHITE  
MODEL: JCBS630DKWW
  - 3 SINK BASIN:  
AMERICAN STANDARD COLONY 838x559 DOUBLE BASIN DROP-IN SINK, 3 HOLE, STAINLESS  
22DB6332283S.075
  - 4 FAUCET:  
AMERICAN STANDARD COLONY PULL DOWN FAUCET, STAINLESS  
7074300.075
  - 5 DISHWASHER:  
GE 610 mm DISHWASHER w/ FRONT CONTROLS, WHITE  
MODEL: GDF510PGRWW
  - 6 REFRIGERATOR:  
GE PROFILE 762 mm FRENCH DOOR BOTTOM-MOUNT REFRIGERATOR, WHITE  
MODEL: PNE21NGLKWW

**1 BOARDROOM KITCHENETTE**  
1 : 20



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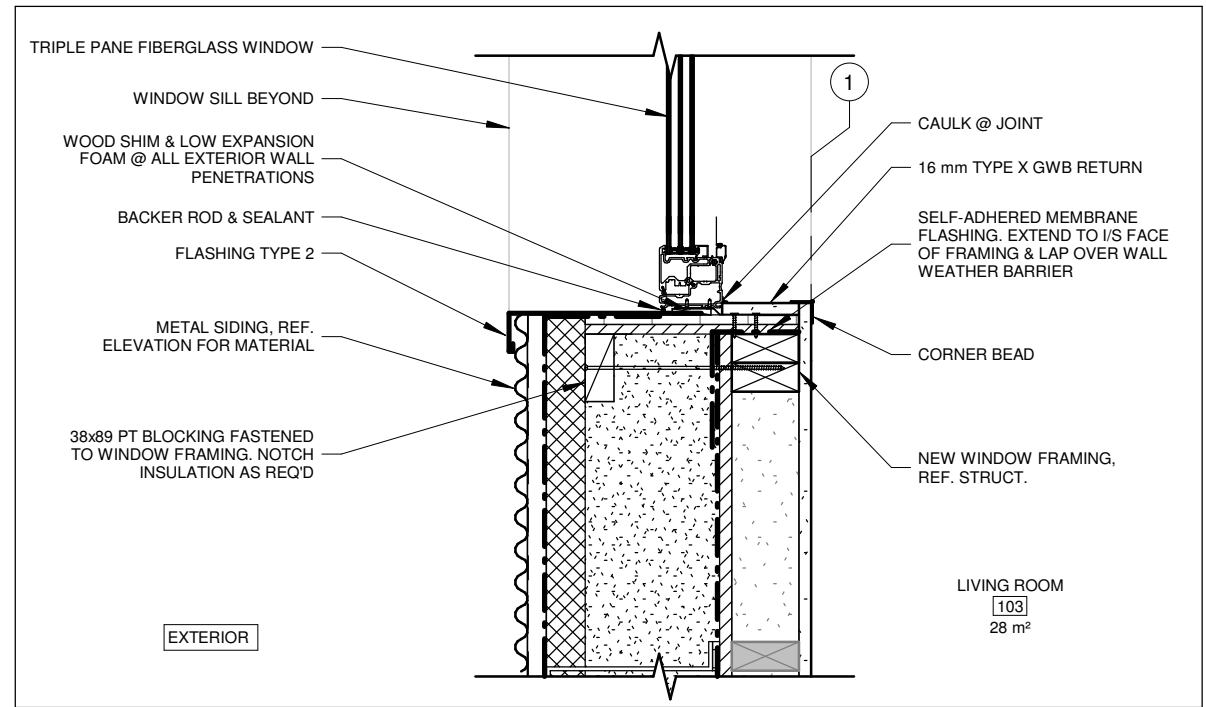
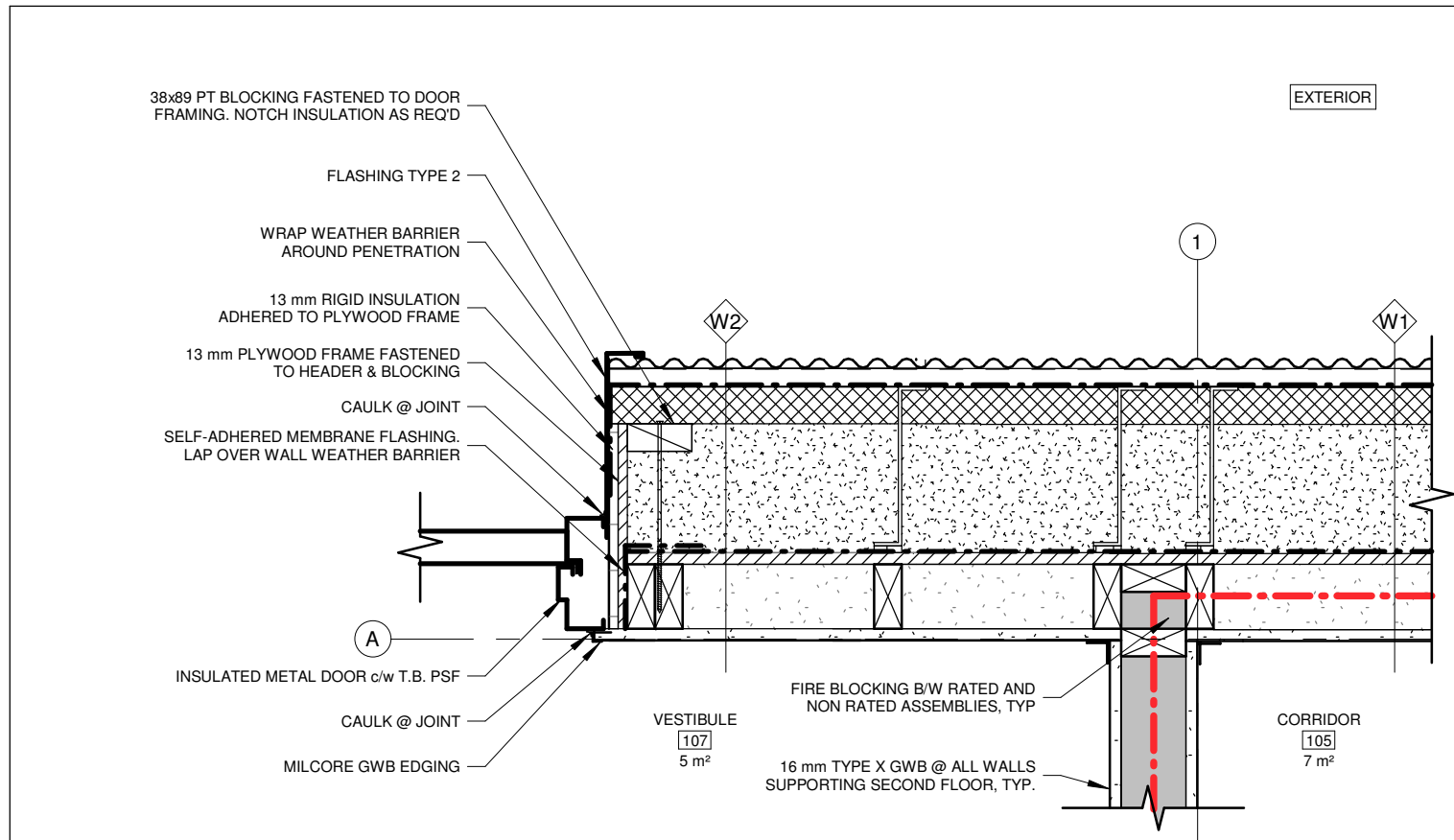
DD/MM/YY
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DRAWING  
**KITCHEN PLAN & ELEVATIONS**

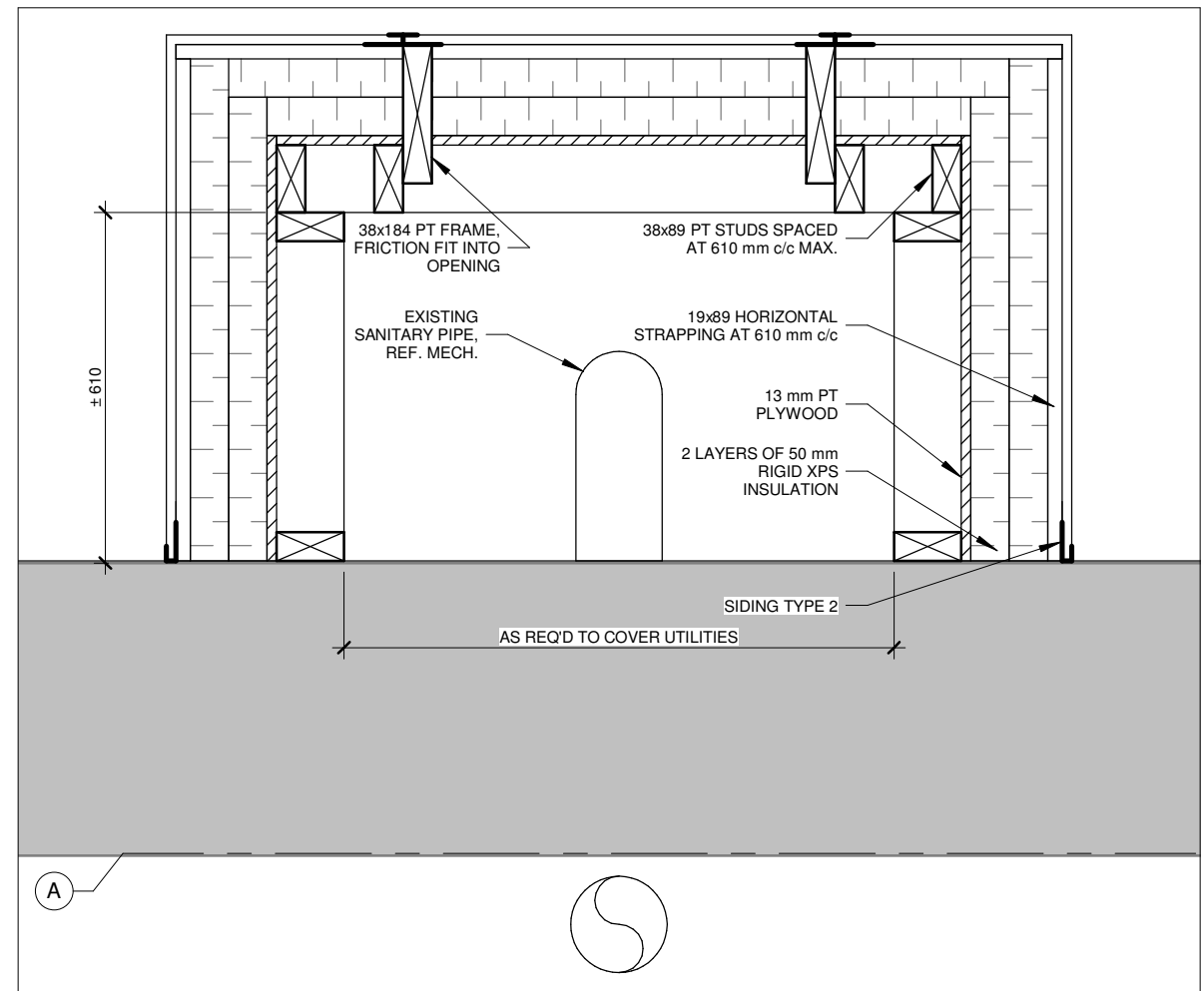
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DESIGN RWG	DRAWN LM
PROJECT 20103	<b>A402</b>
SCALE 1 : 20	



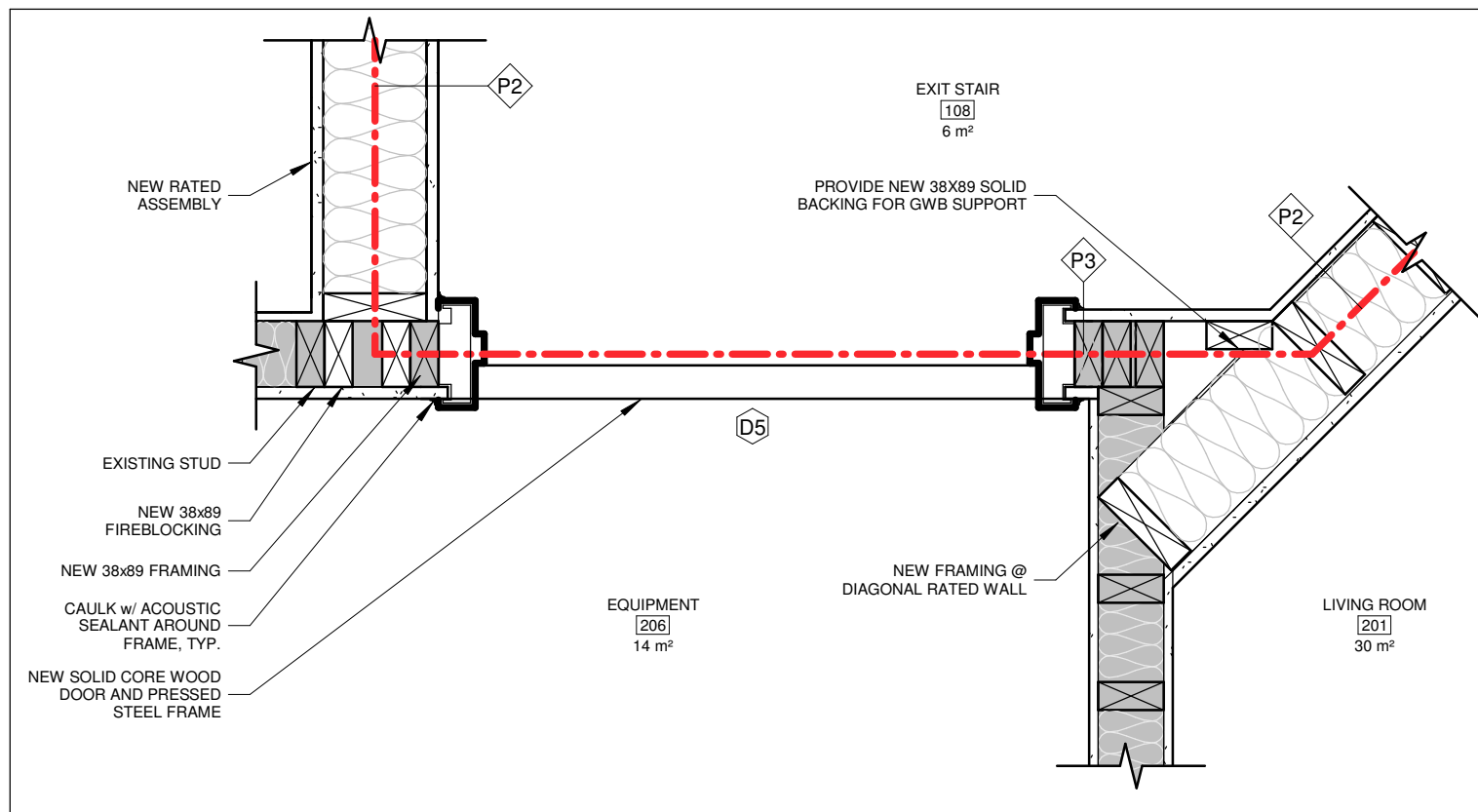


**2** TYP. WINDOW JAMB, DETAIL 2  
1 : 10



**4** UTILIDOR DETAIL  
1 : 10

**1** ENTRANCE DOOR JAMB, DETAIL 1  
1 : 10



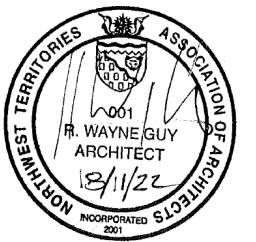
**3** SECOND FLOOR STAIRWAY, PLAN DETAIL 3  
1 : 10



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PLAN DETAILS

DO NOT SCALE FOR DIMENSIONS

DESIGN RWG	DRAWN LM
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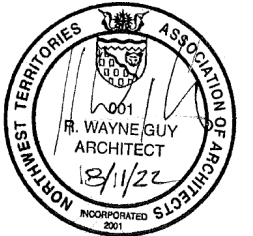
PROJECT 20103	<b>A501</b>
SCALE 1 : 10	



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DRAWING

**SECTION DETAILS**

DO NOT SCALE FOR DIMENSIONS

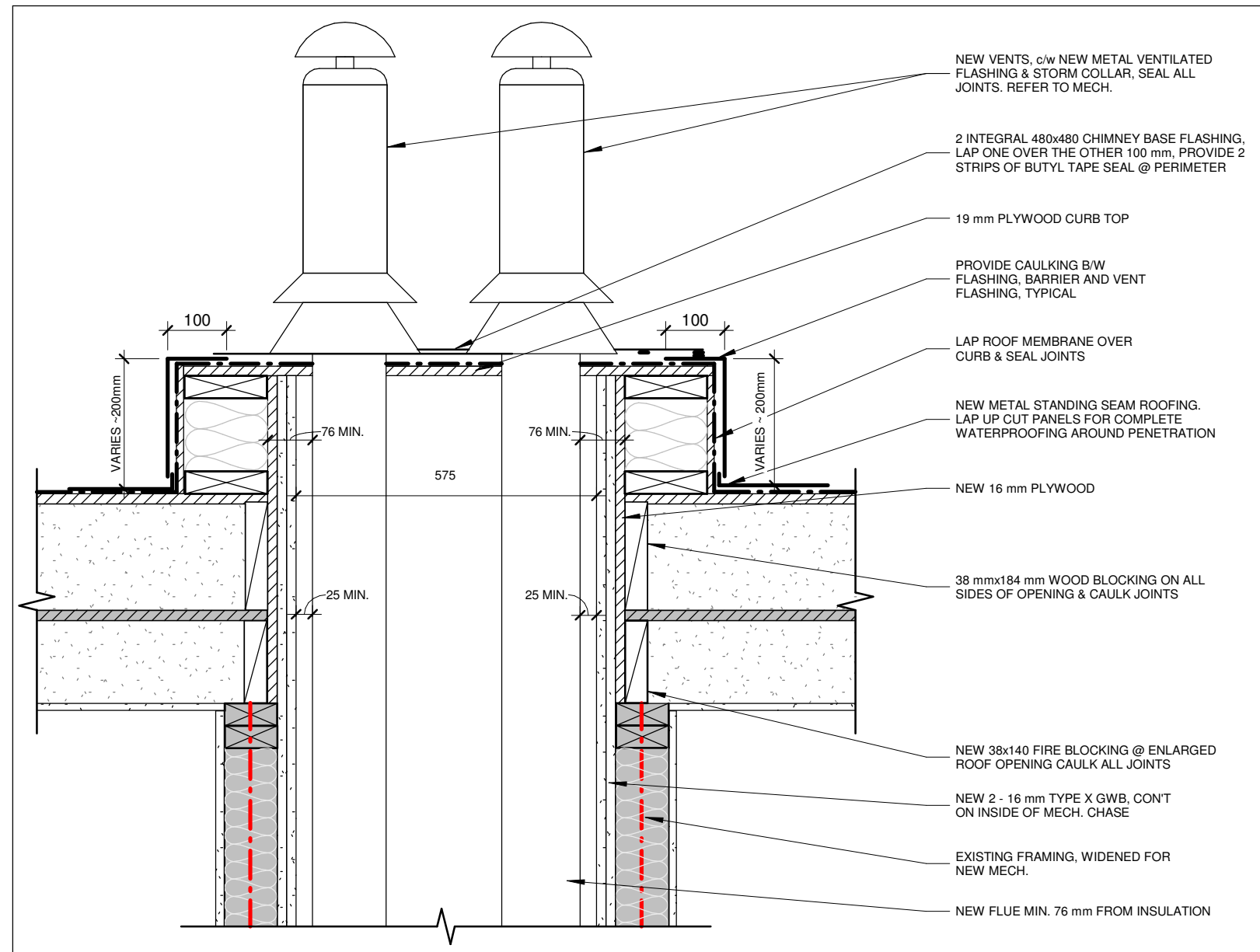
DESIGN  
RWG

DRAWN  
LM

PROJECT  
20103

SCALE  
As indicated

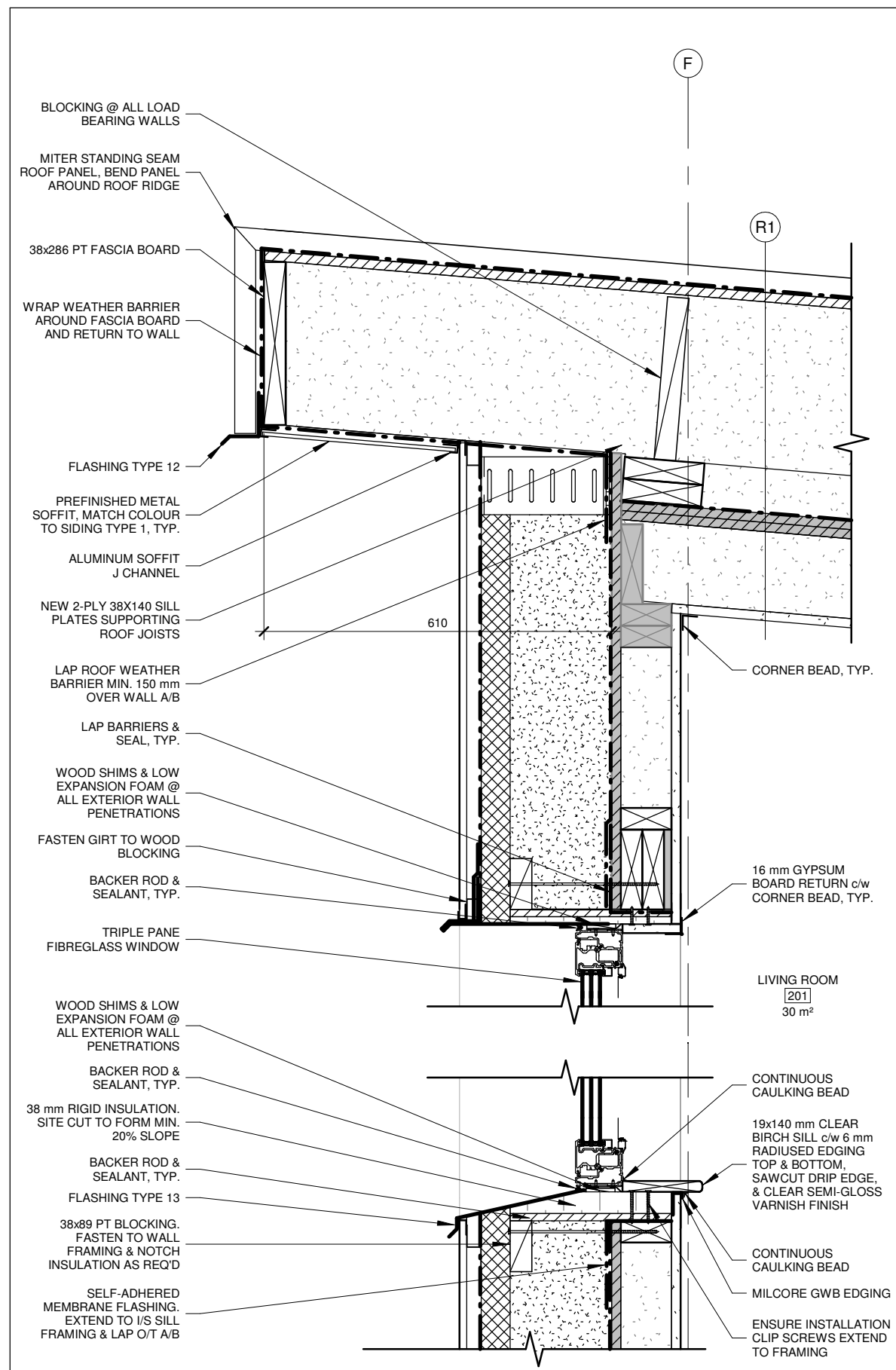
**A600**



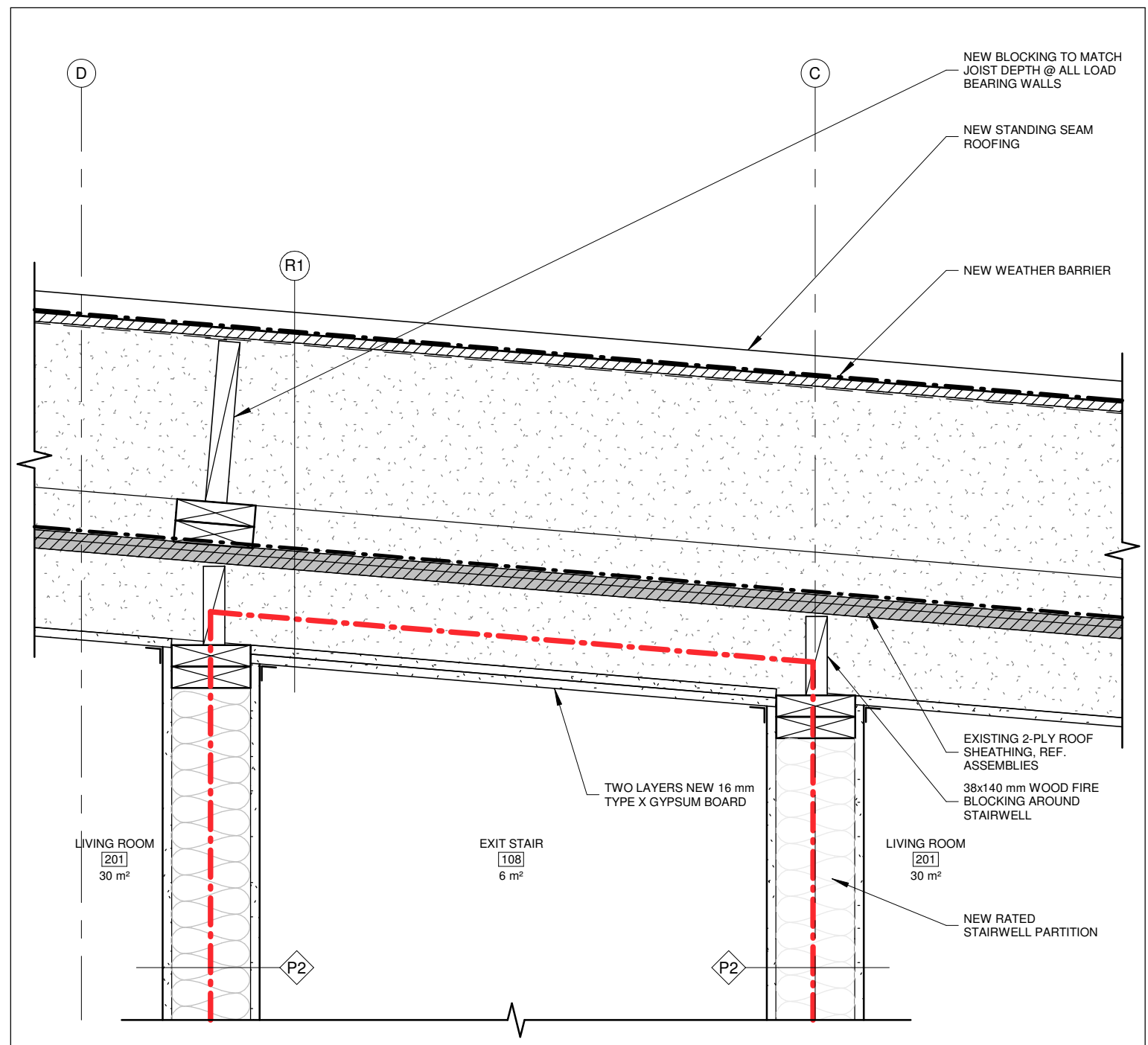
**1** NEW CHIMNEY, SECTION DETAIL 1  
1 : 10

**LEGEND**

	1 HOUR FRR
	EXISTING ASSEMBLY
	NEW ASSEMBLY
	NEW COLUMN, REF. STRUCT.



**1** ROOF RIDGE, SECTION DETAIL 1  
1 : 10



**2** RATED CEILING, SECTION DETAIL 2  
1 : 10

**LEGEND**

- - - 1 HOUR FRR
- EXISTING ASSEMBLY
- NEW ASSEMBLY
- NEW COLUMN, REF. STRUCT.



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**SECTION DETAILS**

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWN
RWG	LM
PROJECT	<b>A601</b>
20103	
SCALE	As indicated

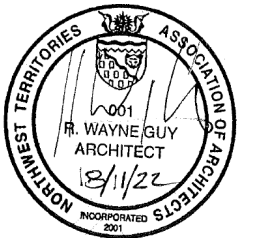




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**SECTION DETAILS**

DO NOT SCALE FOR DIMENSIONS

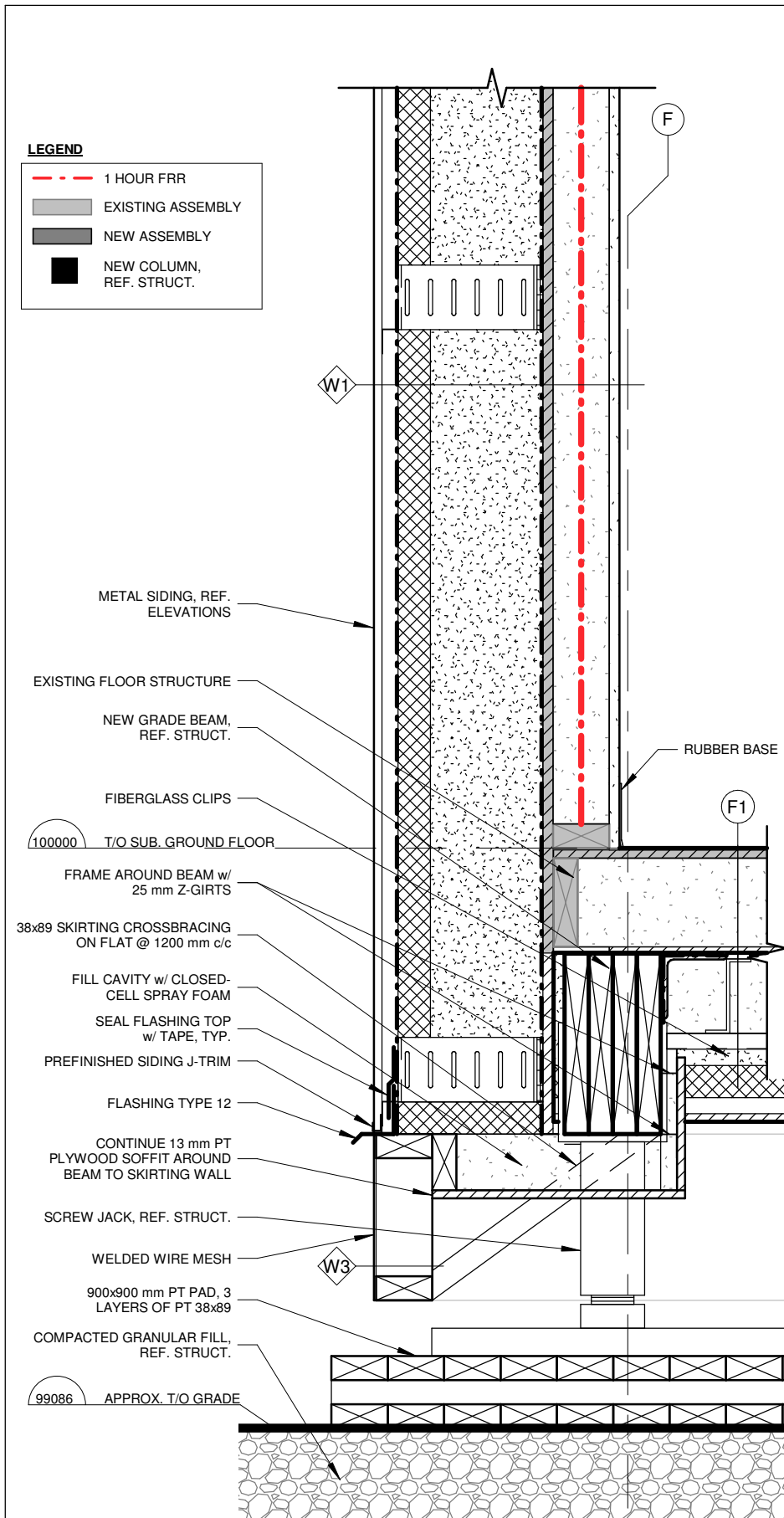
DESIGN  
RWG

DRAWN  
LM

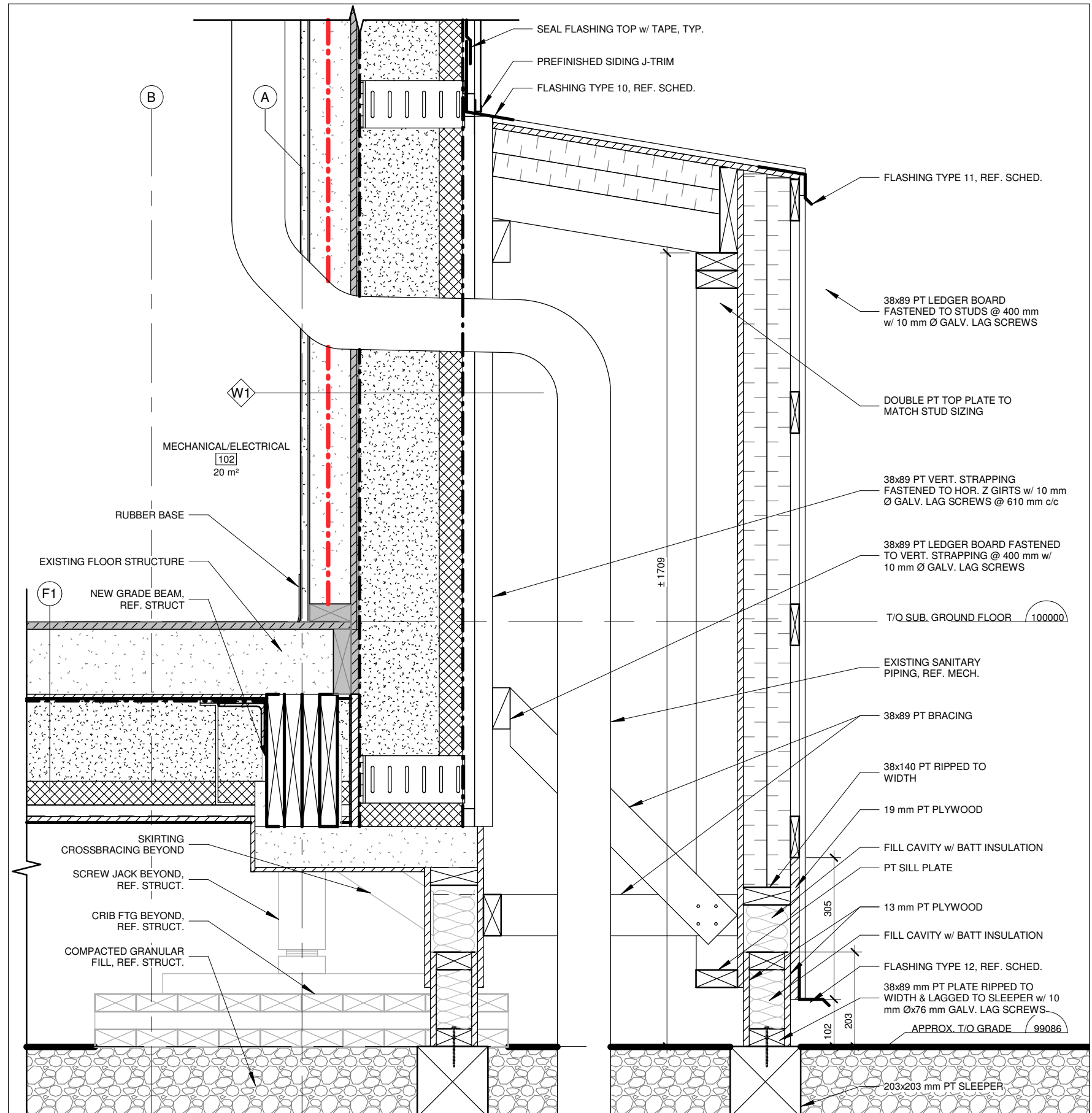
PROJECT  
20103

SCALE  
As indicated

**A602**

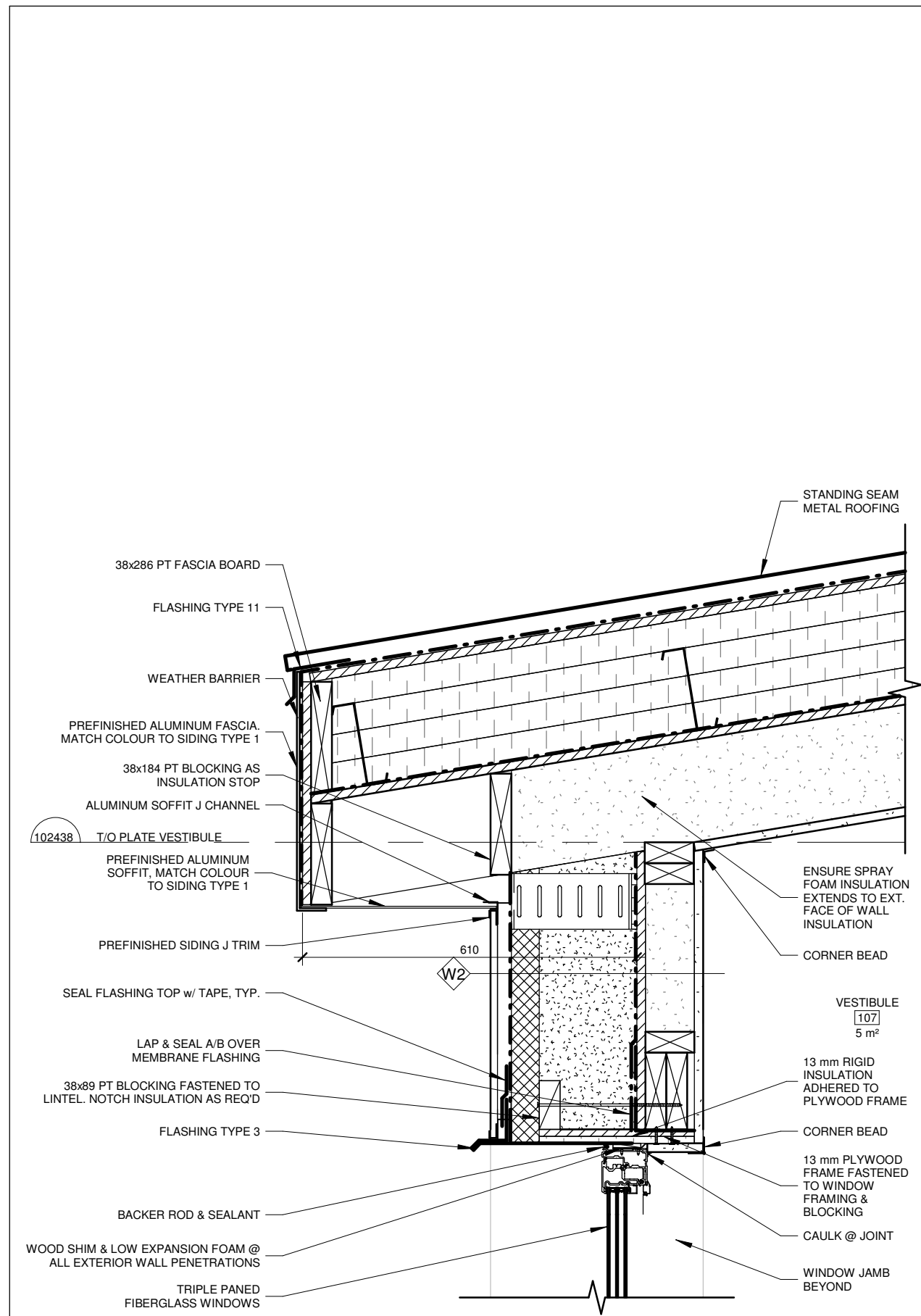


**1** FOUNDATION, SECTION DETAIL 3  
1 : 10

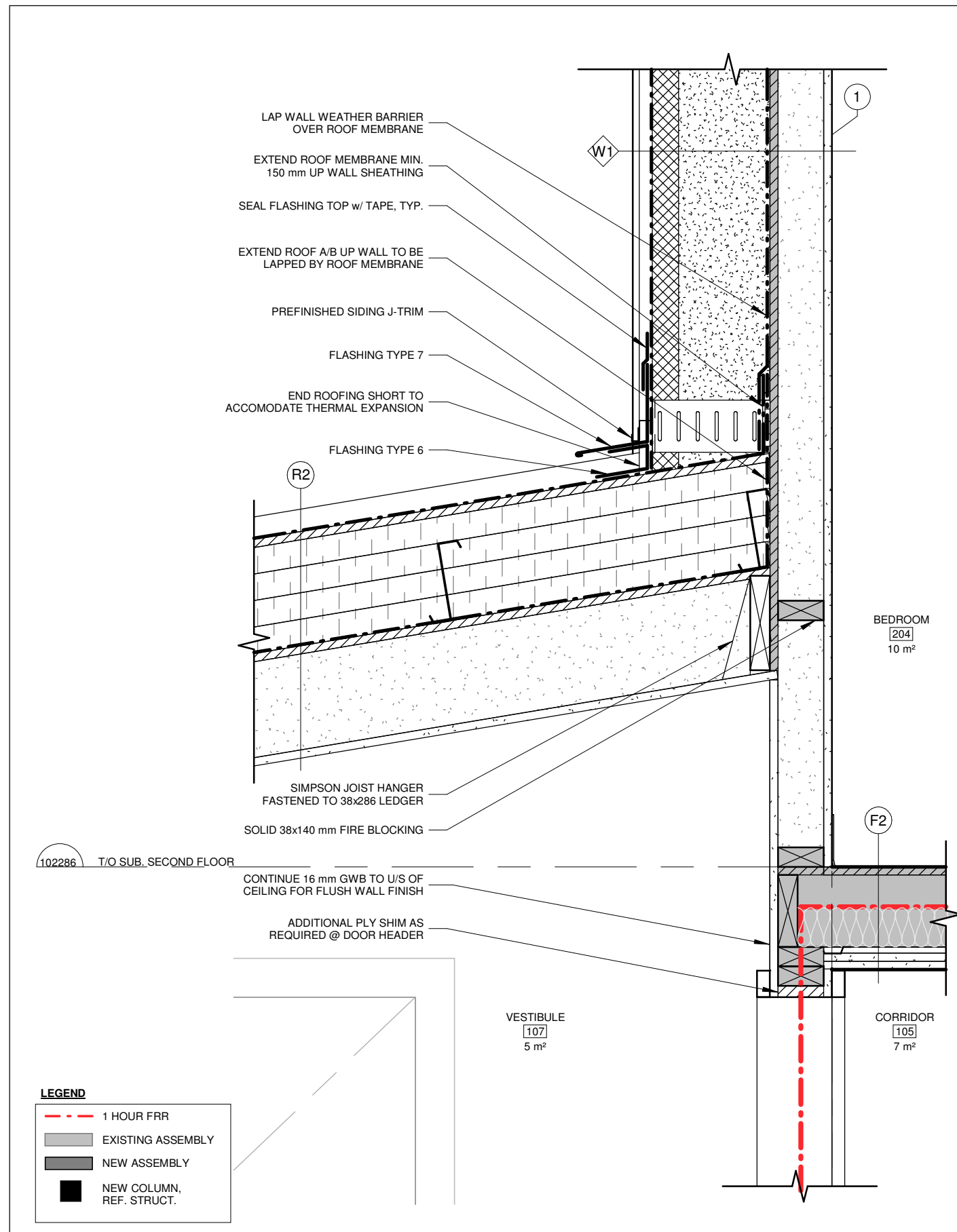


**2** UTILIDOR, SECTION DETAIL 4  
1 : 10





**1** ADDITION ROOF, SECTION DETAIL 5  
1 : 10



**2** ADDITION @ EXISTING BUILDING, SECTION DETAIL 6  
1 : 10

**LEGEND**

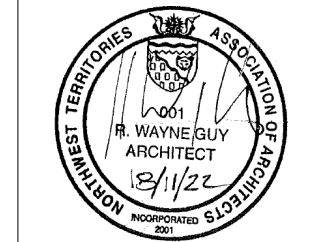
- 1 HOUR FRR
- EXISTING ASSEMBLY
- NEW ASSEMBLY
- NEW COLUMN, REF. STRUCT.



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SECTION DETAILS

DO NOT SCALE FOR DIMENSIONS

DESIGN  
RWG  
DRAWN  
LM

PROJECT  
20103  
SCALE  
As indicated

**A603**



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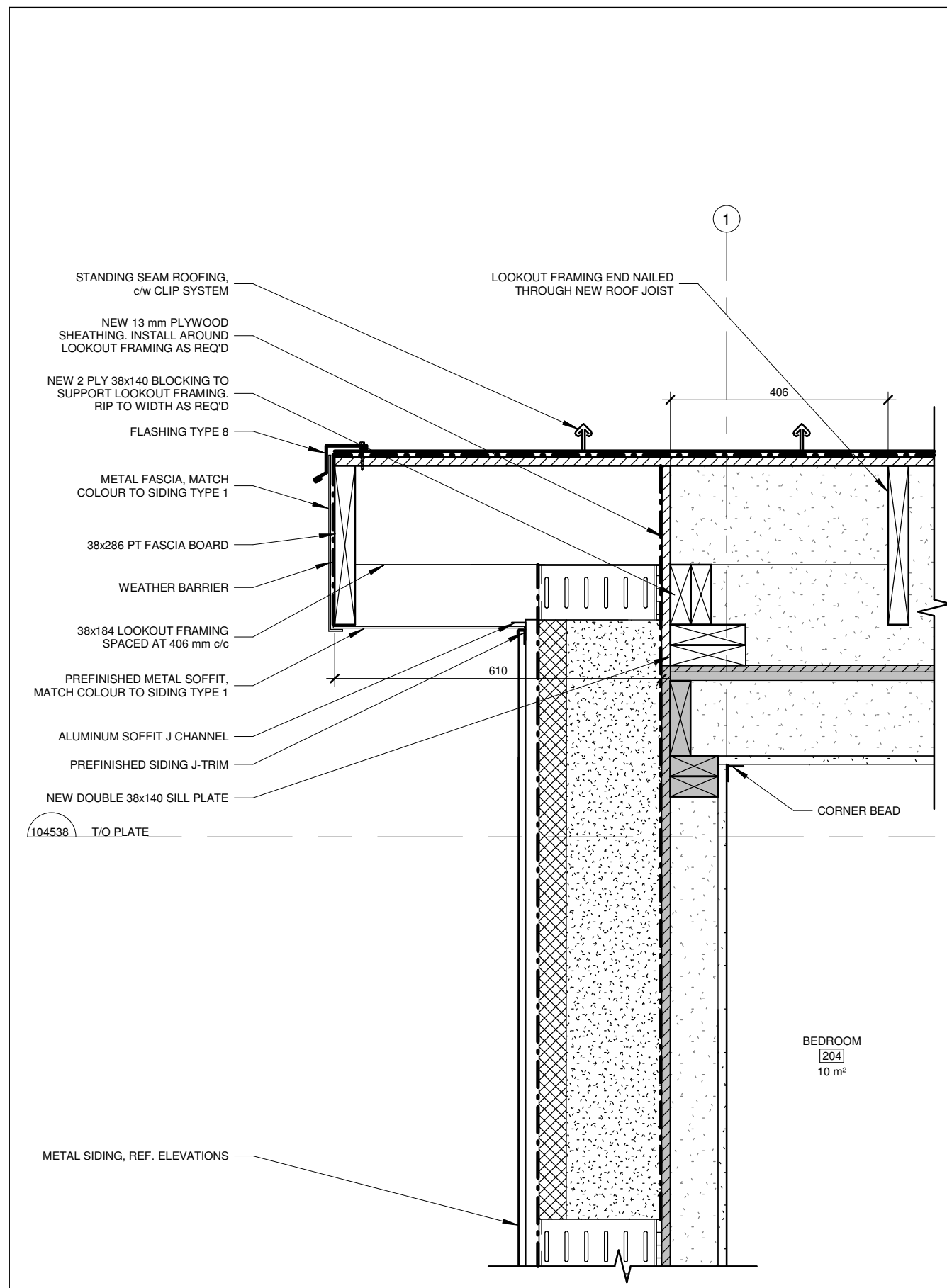
DESIGN  
RWG

DRAWN  
LM

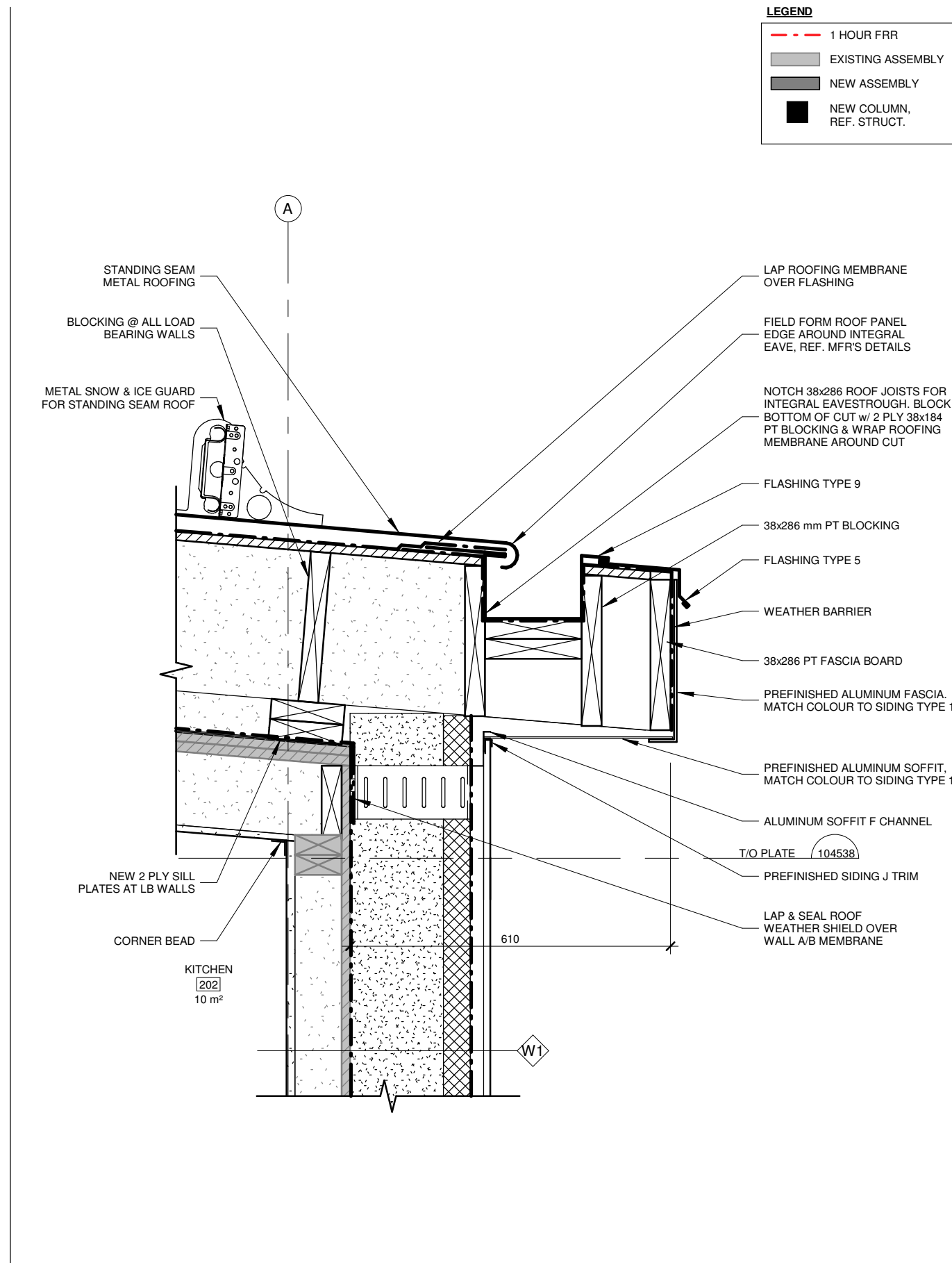
PROJECT  
20103

SCALE  
As indicated

**A604**



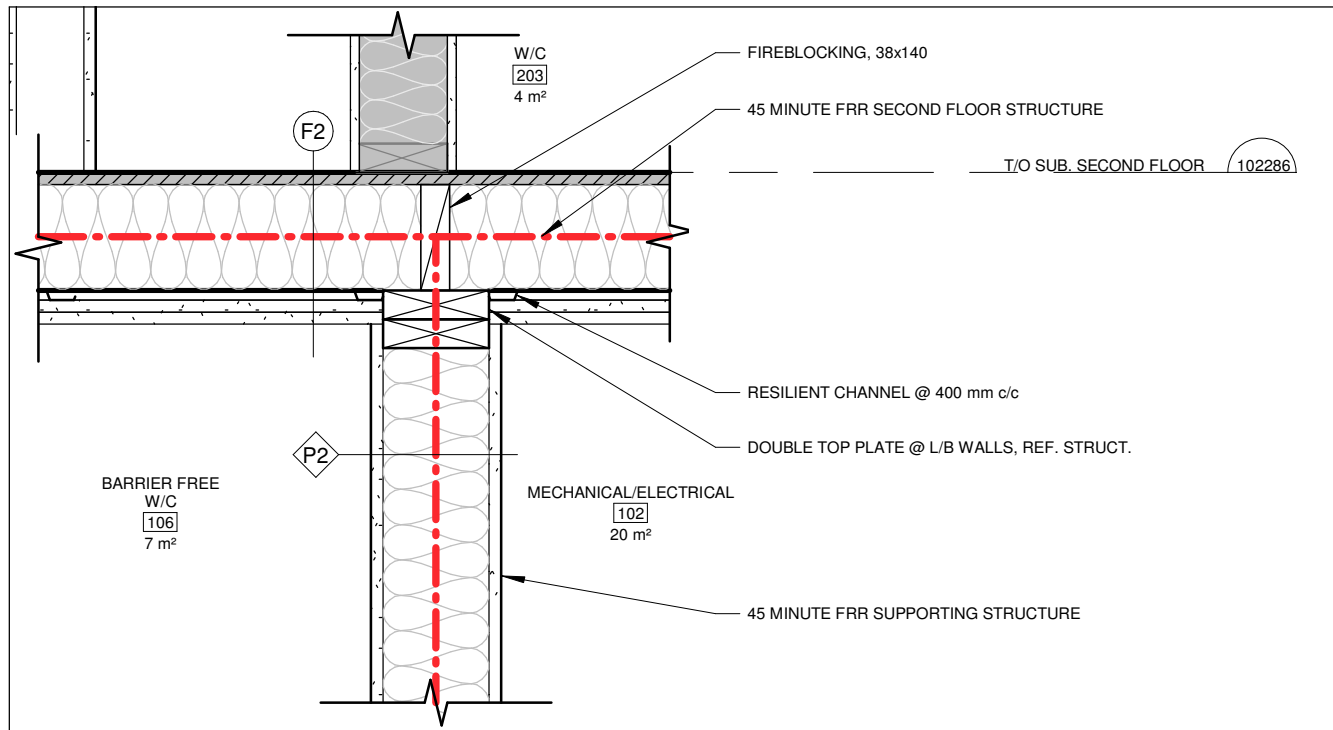
**1** WALL TO ROOF, SECTION DETAIL 7  
1 : 10



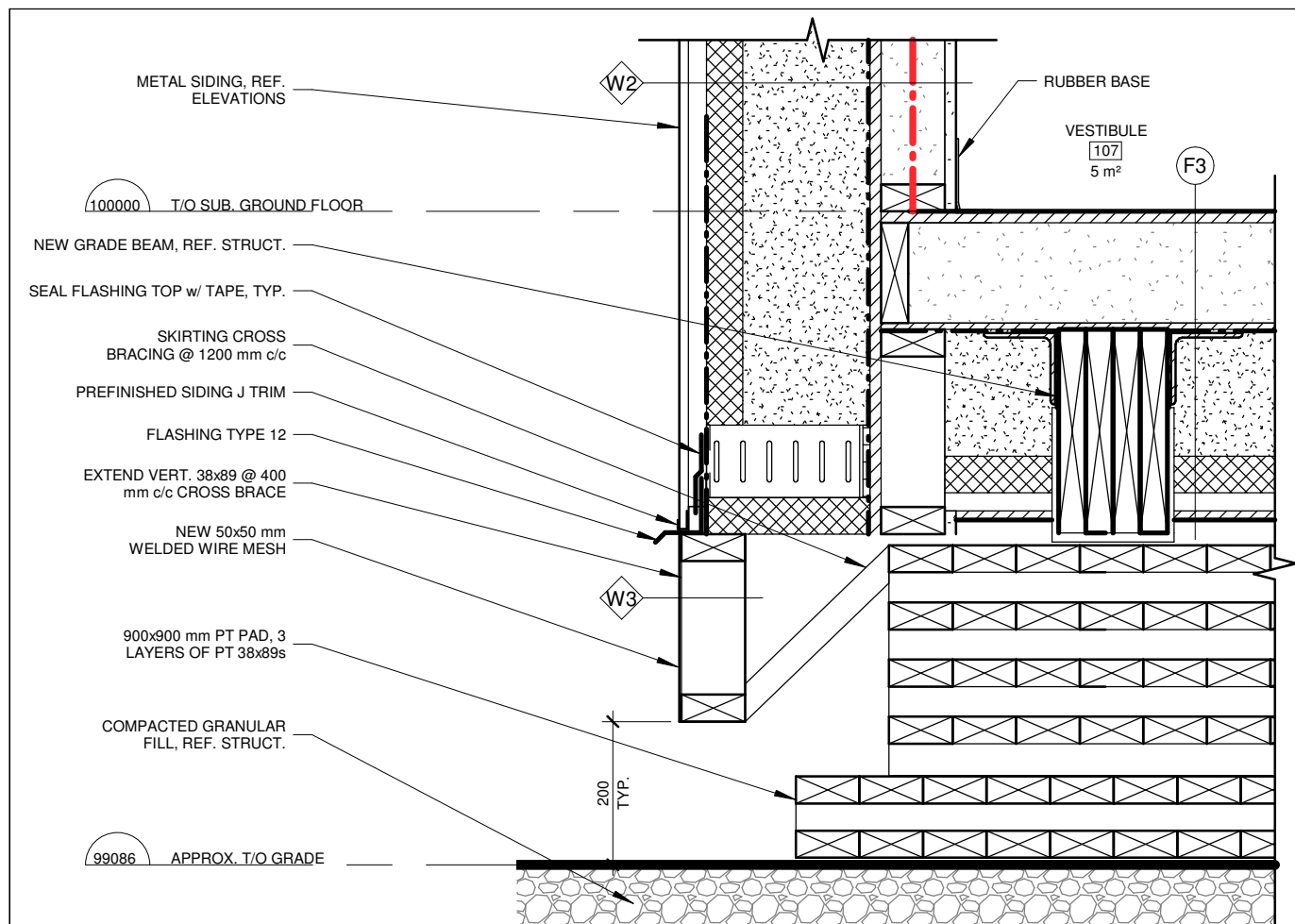
**2** INTEGRAL GUTTER, SECTION DETAIL 8  
1 : 10

**LEGEND**

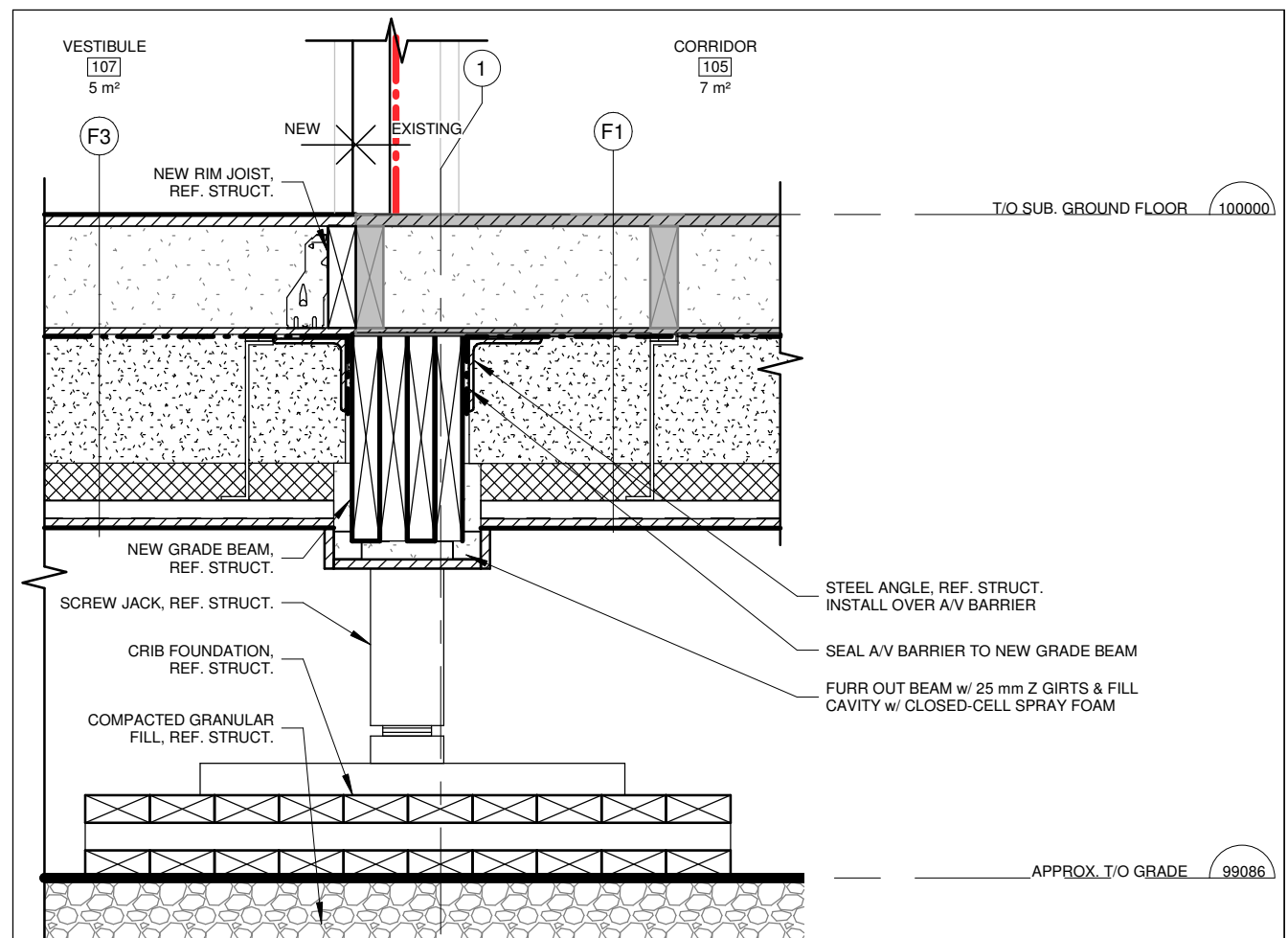
- 1 HOUR FRR
- EXISTING ASSEMBLY
- NEW ASSEMBLY
- NEW COLUMN, REF. STRUCT.



**1** RATED CEILING DETAIL, SECTION DETAIL 8  
1 : 10



**2** NEW FLOOR TO FOUNDATION, SECTION DETAIL 9  
1 : 10



**3** NEW TO EXISTING FLOOR, SECTION DETAIL 10  
1 : 10

**LEGEND**

- - - 1 HOUR FRR
- EXISTING ASSEMBLY
- NEW ASSEMBLY
- NEW COLUMN, REF. STRUCT.



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**SECTION DETAILS**

DO NOT SCALE FOR DIMENSIONS

DESIGN  
RWG

DRAWN  
LM

PROJECT  
20103

SCALE

As indicated

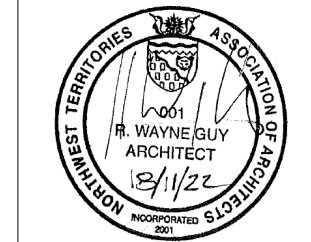
**A605**



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DRAWING

**STAIR PLANS &  
DETAILS**

DO NOT SCALE FOR DIMENSIONS

DESIGN  
RWG

DRAWN  
LM

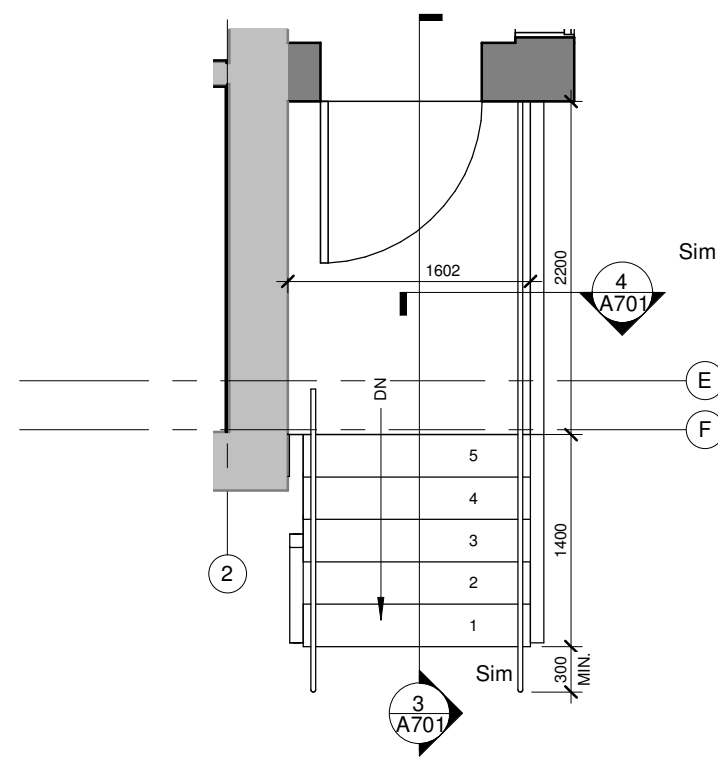
PROJECT

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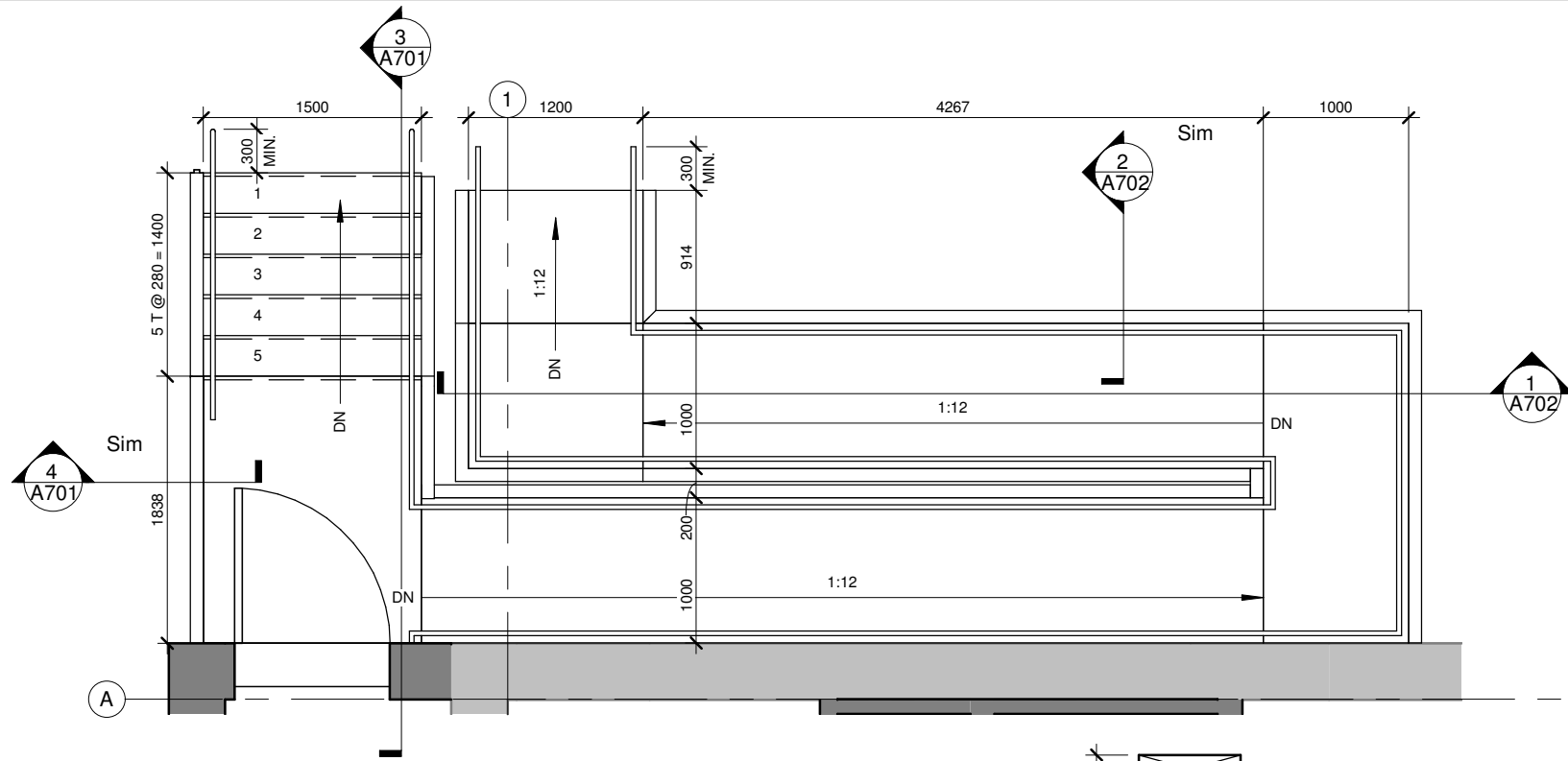
SCALE

As indicated

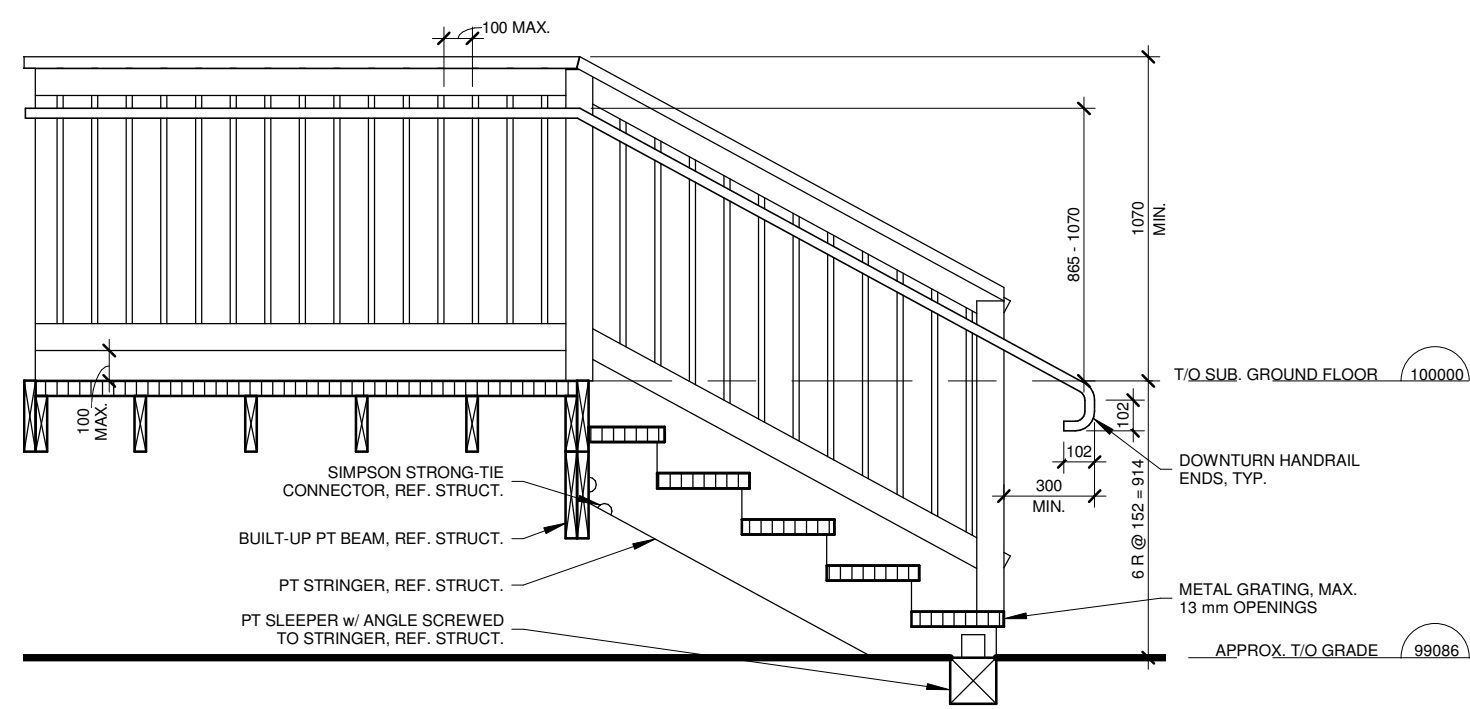
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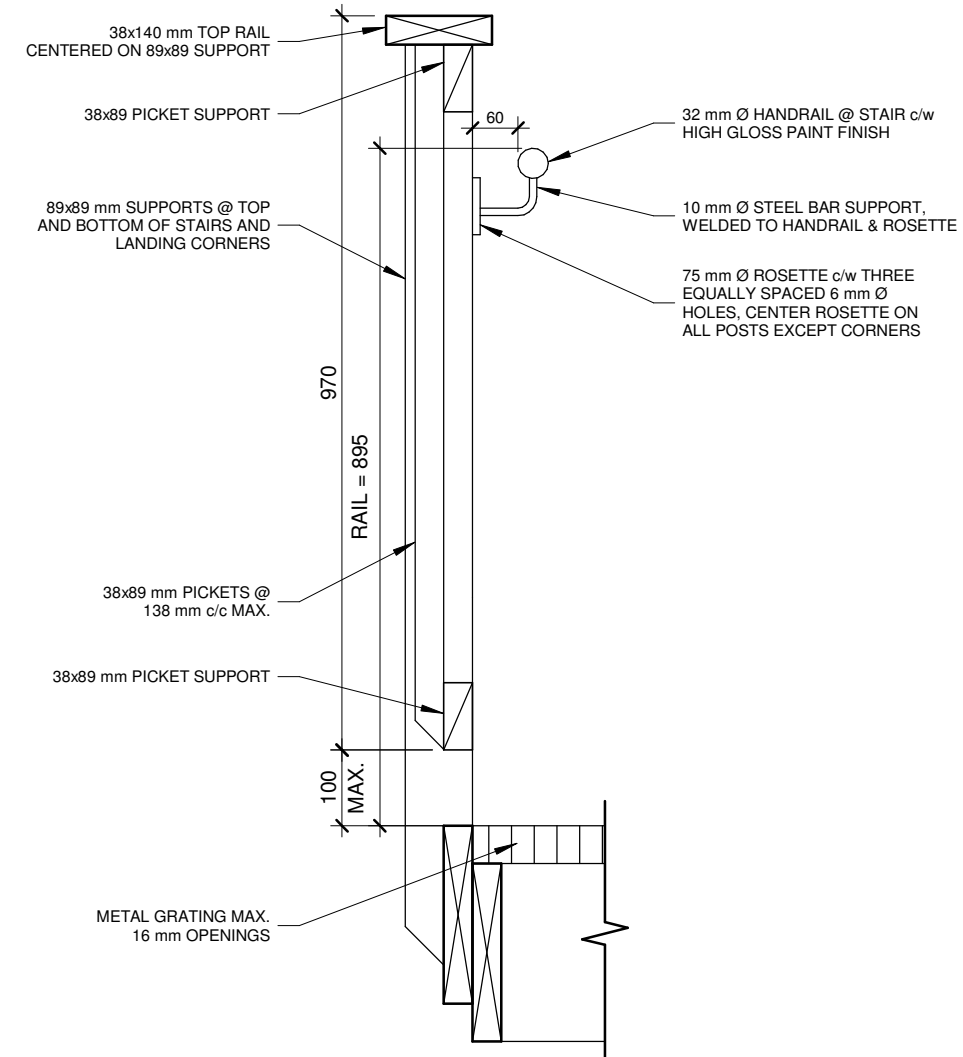
**1** STAIR 2 PLAN  
1 : 50



**2** STAIR 1 & RAMP PLAN  
1 : 50



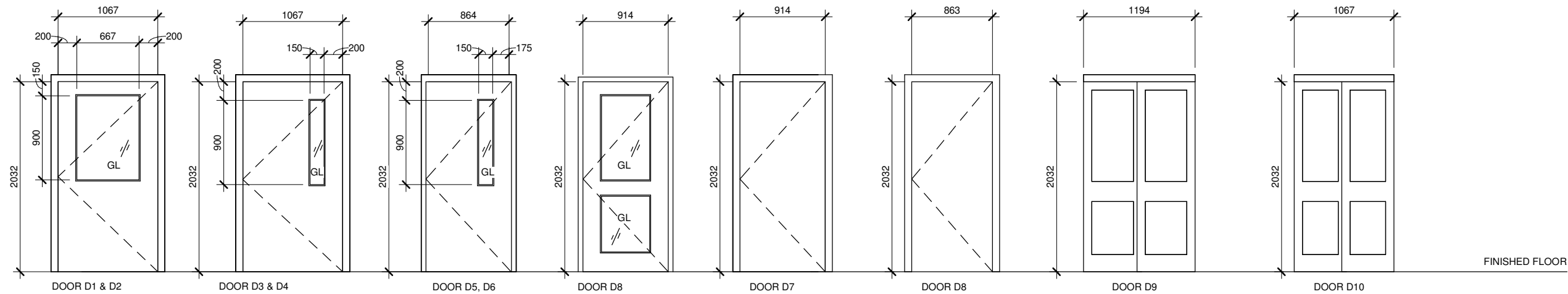
**3** TYP. STAIR & LANDING DETAIL  
1 : 25



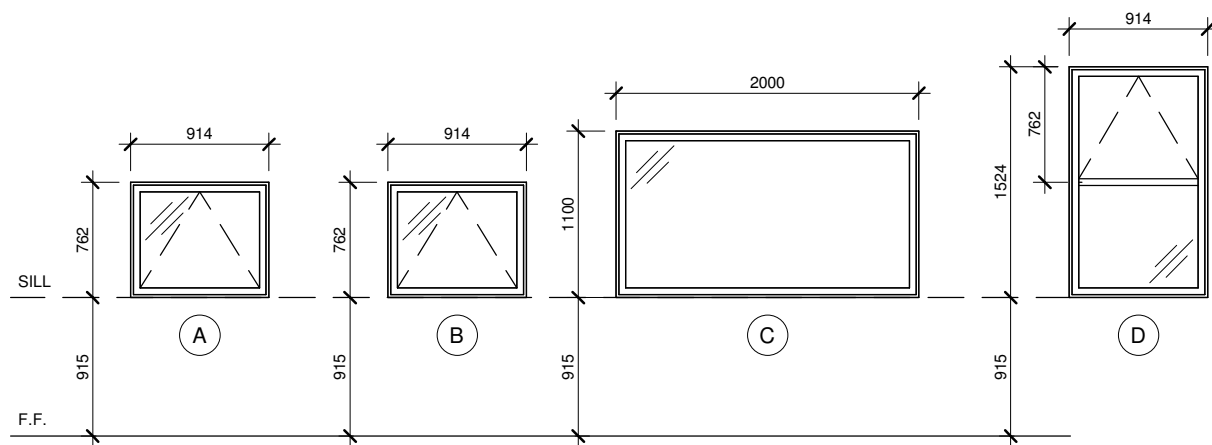
**4** TYP. STAIR GUARD DETAIL  
1 : 10







### 1 DOOR LEGEND 1 : 50



### 2 WINDOW LEGEND 1 : 50

WINDOW TYPE	QUANTITY	FRAME	GLASS	U VALUE (W/M²K)	NOTES
A	9	FIBERGLASS	TRIPLE PANE	0.18	INSECT SCREENS IN AWNING. TRIPLE PANE, LOW E COATING
B	2	FIBERGLASS	TRIPLE PANE	0.18	INSECT SCREENS IN AWNING, WIRED GLASS, TRIPLE PANE, LOW E COATING
C	2	FIBERGLASS	TRIPLE PANE	0.18	FIXED, TRIPLE PANE, LOW E COATING
D	3	FIBERGLASS	TRIPLE PANE	0.18	INSECT SCREENS IN AWNING. TRIPLE PANE, LOW E COATING, 45 MINUTE RATING

NOTE: CONTRACTOR TO CONFIRM R/O DIMENSIONS ON SITE PRIOR TO ORDERING WINDOWS, REFER TO WINDOW ELEVATIONS.

### 4 WINDOW SCHEDULE 1 : 10

DOOR TYPE	QUANTITY	WIDTH (mm)	HEIGHT (mm)	FRAME	NOTES
D1	1	1067	2032	TB FRAME	PROVIDE NEW INSULATED METAL DOOR & TB FRAME c/w CONTINUOUS HEAVY HINGE. CRASH BAR c/w ENTRY FUNCTION LOCK SET, D-PULL w/ THUMB LATCH ON EXTERIOR, DOOR CLOSER, DOOR SEAL, GLAZING, 13 mm TB THRESHOLD.
D2	1	1067	2032	TB FRAME	PROVIDE NEW INSULATED METAL DOOR & TB FRAME c/w CONTINUOUS HEAVY HINGE. ELECTRIFIED EXIT DEVICE c/w ENTRY FUNCTION LOCK SET, & ELECTRIC STRIKE. D-PULL w/ THUMB LATCH ON EXTERIOR, DOOR SEAL, GLAZING, 13 mm TB THRESHOLD, POWER DOOR OPERATOR.
D3	1	1067	2032	45 MINUTE PSF	PROVIDE NEW 45 mm SOLID CORE WOOD DOOR AND 45 MINUTE PSF FRAME c/w CONTINUOUS HEAVY HINGE. PUSH PLATE ON INTERIOR SIDE, D-PULL ON EXTERIOR, DOOR CLOSER, WALL STOP.
D4	1	1067	2032	45 MINUTE PSF	PROVIDE NEW 45 mm SOLID CORE WOOD DOOR AND 45 MINUTE PSF FRAME, c/w CONTINUOUS HEAVY HINGE. PUSH PLATE ON INTERIOR SIDE, D-PULL ON EXTERIOR, FLOOR STOP. POWER DOOR OPERATOR & ELECTRIC STRIKE.
D5	1	762	2032	45 MINUTE PSF	PROVIDE NEW 45 mm SOLID CORE WOOD DOOR AND 45 MINUTE PSF FRAME. LEVER HANDLE c/w PASSAGE SET. DOOR CLOSER & WALL STOP.
D6	1	914	2032	45 MINUTE PSF	PROVIDE NEW 45 mm SOLID CORE WOOD DOOR AND 45 MINUTE PSF FRAME. LEVER HANDLE c/w PASSAGE SET. DOOR CLOSER & WALL STOP.
D7	1	914	2032	PSF	PROVIDE NEW SOLID CORE WOOD DOOR AND PSF FRAME. LEVER HANDLE c/w PRIVACY LOCK SET, DOOR CLOSER, WALL STOP.
D8	1	863	2032	TB FRAME	PROVIDE NEW INSULATED METAL DOOR AND FRAME c/w CONTINUOUS HEAVY HINGE. STOREROOM LEVER SET, WALL STOP.
D9	1	1194	2032	FRAMELESS	PROVIDE NEW PRIMED MDF BYPASS SLIDING DOOR c/w HARDWARE, TOP & BOTTOM TRACK.
D10	1	1067	2032	FRAMELESS	PROVIDE NEW PRIMED MDF BYPASS SLIDING DOOR c/w HARDWARE, TOP & BOTTOM TRACK.

**NOTE:**

- CONTRACTOR TO CONFIRM R/O DIMENSIONS AND FRAME THROAT SIZE ON SITE PRIOR TO ORDERING DOORS, REFER TO DOOR ELEVATIONS.
- CONTRACTOR TO CONFIRM GLAZING INSERT DIMENSION ARE COMPATIBLE WITH HARDWARE PLACEMENT

### 3 DOOR SCHEDULE 1 : 10



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Guy Architects Ltd.  
**PERMIT No. 011**  
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PROJECT  
**QANP OFFICE  
BUILDING  
RENOVATION**

RESOLUTE, NUNAVUT

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1	18/11/2022	Issued for Tender, Rev. 1

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DRAWING

**WINDOW & DOOR  
SCHEDULES**

DO NOT SCALE FOR DIMENSIONS

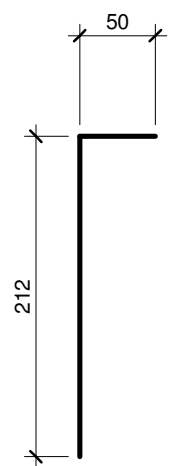
DESIGN  
RWG

DRAWN  
LM

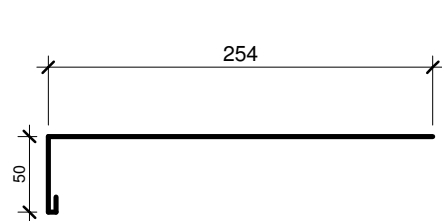
PROJECT  
20103

SCALE  
As indicated

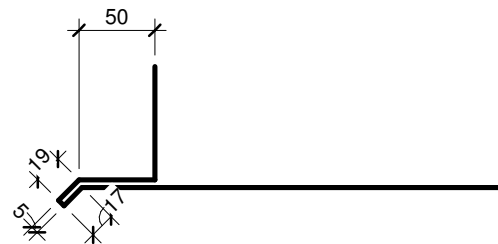
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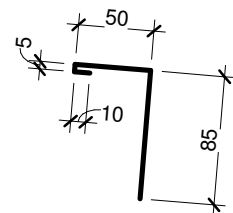
FLASHING TYPE 1



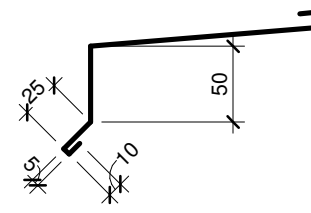
FLASHING TYPE 2



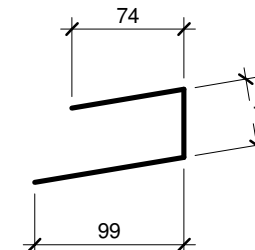
FLASHING TYPE 3



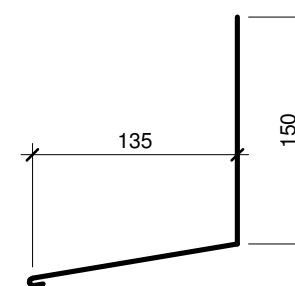
FLASHING TYPE 4



FLASHING TYPE 5

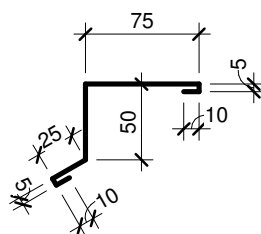


FLASHING TYPE 6

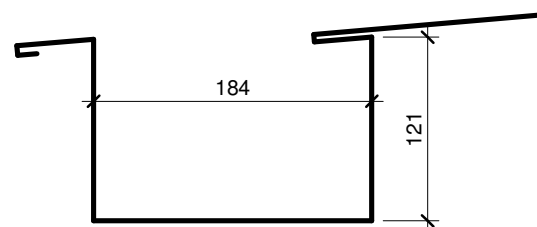


FLASHING TYPE 7

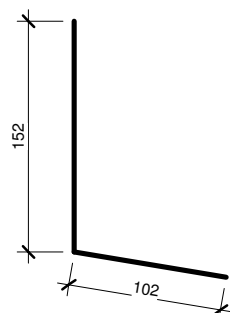
**NOTES:**  
 • FLASHING TO MATCH FINISH OF SIDING TYPE 1  
 • FLASHING 24 GA.



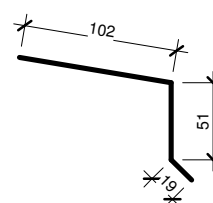
FLASHING TYPE 8



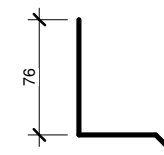
FLASHING TYPE 9



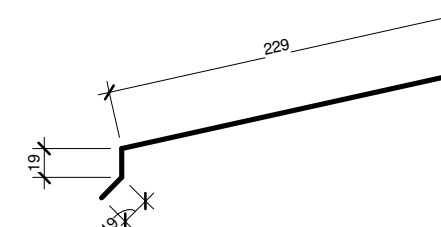
FLASHING TYPE 10



FLASHING TYPE 11



FLASHING TYPE 12



FLASHING TYPE 13

**1 FLASHING SCHEDULE**  
1 : 5

FINISH SCHEDULE						
ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	COMMENTS
100	VESTIBULE	SF	RB	PGB	PGB	SF: VINYL SAFETY FLOORING VP1: VINYL PLANK 1 VP2: VINYL PLANK 2 RB: RUBBER BASE PGB: PAINTED GYPSUM BOARD
101	LOBBY	VP1	RB	PGB	PGB	
102	MECHANICAL	SF	RB	PGB	PGB	
103	MANAGER OFFICE	VP1	RB	PGB	PGB	
104	BOARDROOM	VP1	RB	PGB	PGB	
105	CORRIDOR	VP1	RB	PGB	PGB	
106	WASHROOM	VP2	RB	PGB	PGB	
107	VESTIBULE	SF	RB	PGB	PGB	
200	EXIT STAIR	VP1	RB	PGB	PGB	
201	OPEN OFFICE	VP1	RB	PGB	PGB	
202	KITCHEN	VP1	RB	PGB	PGB	
203	WASHROOM	VP2	RB	PGB	PGB	
204	STORAGE	VP1	RB	PGB	PGB	
205	STORAGE	VP1	RB	PGB	PGB	
206	EQUIPMENT	VP1	RB	PGB	PGB	

**2 FINISH SCHEDULE**  
1 : 10



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PROJECT  
**QANP OFFICE BUILDING RENOVATION**

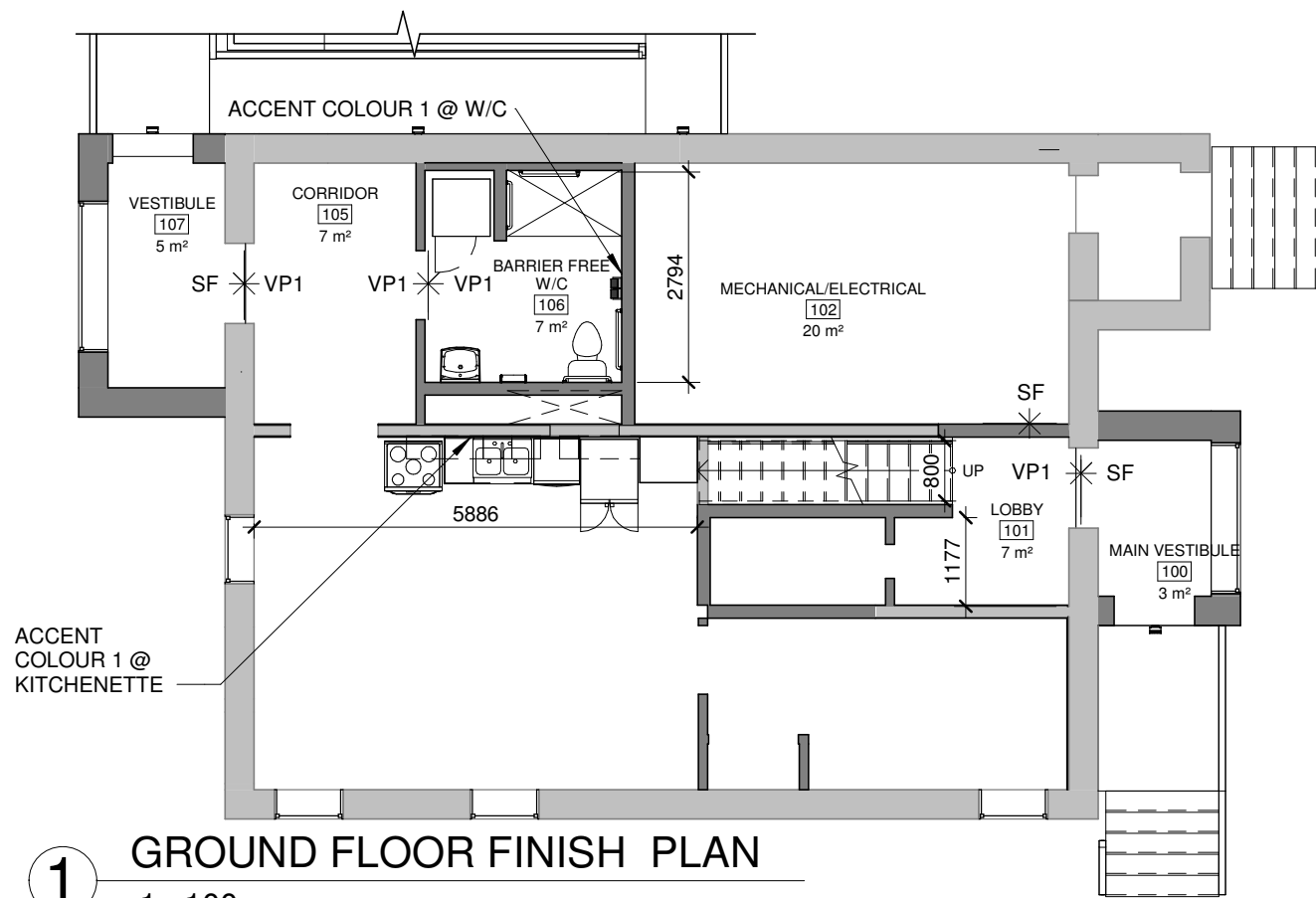
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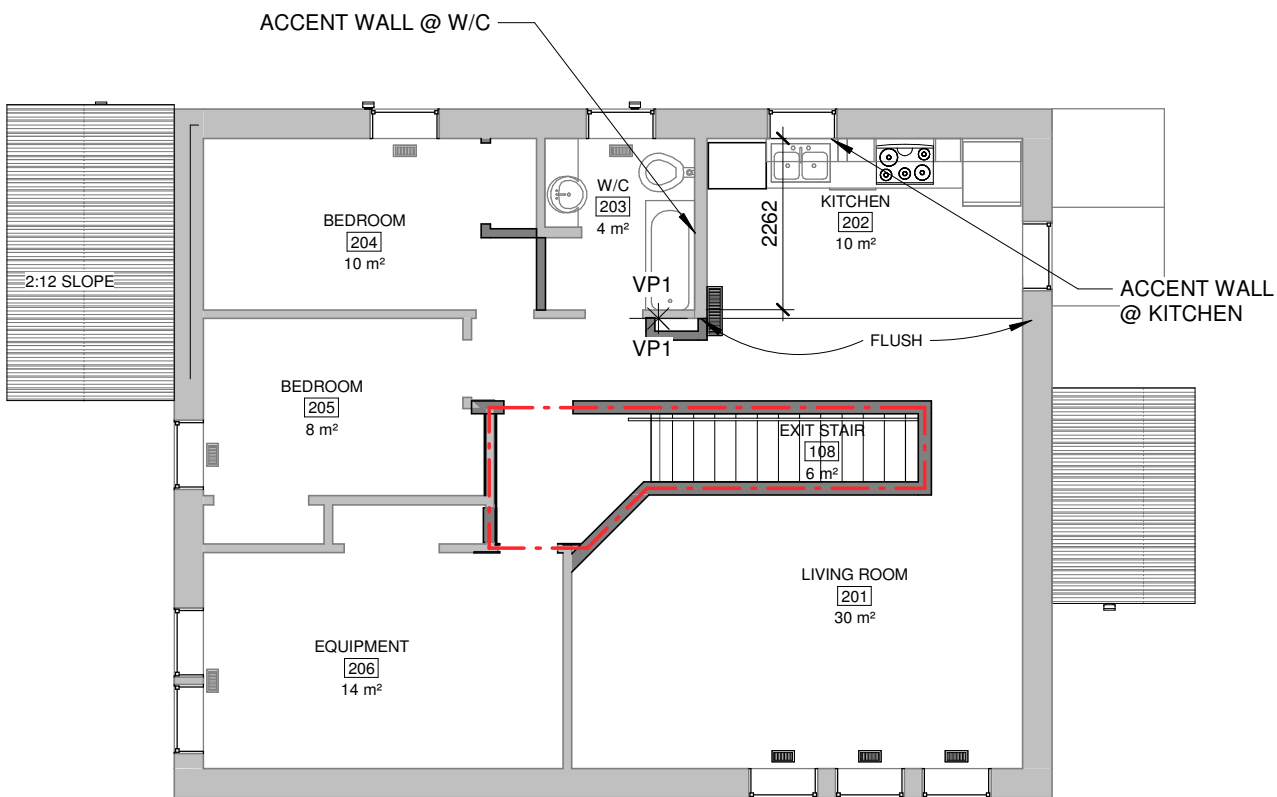
DRAWING  
**FLASHING SCHEDULE & FINISH SCHEDULE**

DO NOT SCALE FOR DIMENSIONS

DESIGN RWG	DRAWN LM
PROJECT 20103	<b>A802</b>
SCALE As indicated	

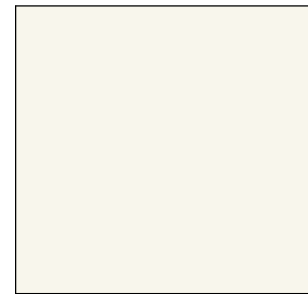


**1** GROUND FLOOR FINISH PLAN  
1 : 100

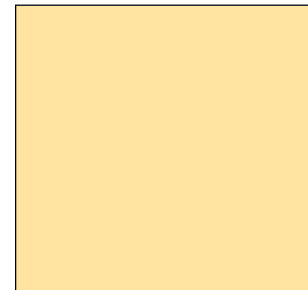


**2** SECOND FLOOR FINISH PLAN  
1 : 100

**WALL FINISH**



WALL PAINT MAIN COLOUR  
Egg Shell  
Benjamin Moore  
Mountain Peak White  
2148-70

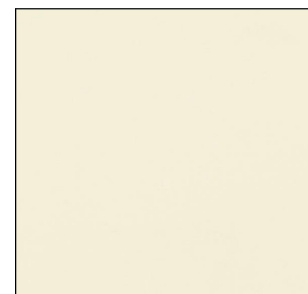


ACCENT COLOUR 1  
WALL PAINT  
Egg Shell  
Benjamin Moore  
Morning Sunshine  
2018-50



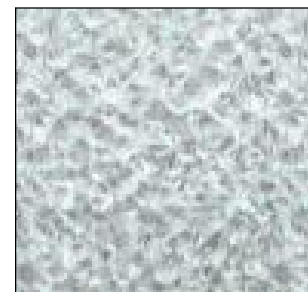
ACCENT COLOUR 2  
INTERIOR DOOR PAINT  
SEMI-GLOSS  
Benjamin Moore  
Deep Ocean  
2058-30

**MILLWORK**



THERMOFOIL  
Kitchen Craft  
Satin Antique

**SIDING/ ROOF STANDING SEAM PANEL**



SIDING TYPE 1/ ROOFING  
VICWEST  
Galvalume

**FLOOR FINISH**



PVC SAFETY FLOORING  
Altro  
Style: Reliance 25  
Colour: Fog WR81



VINYL PLANK 1  
Altro  
Style: Lavencia LVT  
Colour: Hampton Shores Plus  
LACP99022R  
Size 178 mmx1219 mmx6 mm



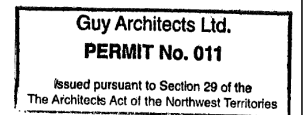
ACCENT COLOUR 3  
RUBBER BASE & STAIR TREADS  
TARKETT  
DREAM TEAL  
VM5

**COUNTER**



SOLID SURFACE COUNTER  
Corian  
Elderberry

**3** COLOUR BOARD



PROJECT  
**QANP OFFICE BUILDING RENOVATION**

RESOLUTE, NUNAVUT

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DRAWING

**FINISH PLAN & COLOUR BOARD**

DO NOT SCALE FOR DIMENSIONS

DESIGN RWG	DRAWN LM
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PROJECT 20103	<b>A803</b>
SCALE As indicated	





**GENERAL NOTES:**

1. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS
2. PROTECT EXISTING BUILDINGS, TREES, FENCING, UTILITY POLES, CABLES, ACTIVE UNDERGROUND SERVICES AND PAVING ON THE SITE OR ANY ADJOINING PROPERTIES FROM DAMAGE.
3. CHECK ALL DIMENSIONS, LEVELS AND DETAILS SHOWN ON STRUCTURAL DRAWINGS AGAINST ARCHITECTURAL DRAWINGS.
4. REPORT ANY DISCREPANCIES TO THE Departmental Representative BEFORE PROCEEDING WITH THE WORK.

**REFERENCES AND RELATED SPECIFICATIONS**

ALL REFERENCE STANDARDS AND RELATED SPECIFICATIONS SHALL BE CURRENT ISSUE OR LATEST REVISION AT THE DATE OF TENDER ADVERTISEMENT.

**CODES OF PRACTICE, BY-LAWS , REGULATIONS**

1. COMPLY WITH NATIONAL BUILDING CODE, LOCAL BY-LAWS, CANADIAN CONSTRUCTION SAFETY CODE AND ALL REGULATIONS SET BY AUTHORITIES HAVING JURISDICTION. IN STRINGENT REQUIREMENTS SHALL APPLY.

**SPECIAL PROVISIONS:**

NO SUBSTITUTIONS ALLOWED UNLESS THE FOLLOWING ARRANGEMENTS ARE MADE

1. WRITTEN PERMISSION OBTAINED FROM THE Departmental Representative AND THE PROJECT MANAGER
2. STEEL CONTRACTOR ENSURES THAT SUBSTITUTIONS CAN BE BOTH PHYSICALLY AND DIMENSIONALLY INCORPORATED IN THE WORK WITH NO LOSS OF INTENDED FUNCTION OR CONSTRUCTION TIME AND AT NO ADDITIONAL COST TO THE OWNER.

**SUBMITTALS**

THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE DEPARTMENTAL REPRESENTATIVE, IN ACCORDANCE WITH THE SPECIAL PROVISIONS:

- 1 CERTIFICATION FROM THE MANUFACTURER STATING THAT THE MATERIALS SUPPLIED MEET THE SPECIFIED REQUIREMENTS.

**DESIGN**

1. ALL STRUCTURAL MEMBERS ARE DESIGNED IN ACCORDANCE WITH NATIONAL BUILDING CODE, LATEST EDITION.
2. ALL CONCRETE MEMBERS ARE DESIGNED IN ACCORDANCE WITH C.S.A STANDARDS A23.3-04, - "DESIGN OF CONCRETE STRUCTURES"
3. ALL STRUCTURAL STEEL MEMBERS ARE DESIGNED IN ACCORDANCE WITH C.S.A STANDARDS CAN/CSA-S16.1-94, -"LIMIT STATES DESIGN OF STEEL STRUCTURES".

**DESIGN LOADS:**

ROOF LOADS: DL: 1 KPA , LL: 1 KPA  
 MAIN FLOOR OFFICE AREAS: DL: 1 KPA , LL: 4.8 KPA  
 2<sup>ND</sup> FLOOR OFFICE AREAS: DL: 1 KPA , LL: 2.4 KPA  
 STORAGE/EQUIPMENT ROOMS: DL: 1 KPA , LL: 4.8 KPA  
 MECHANICAL ROOMS: DL: 1 KPA , LL: 3.6 KPA  
 WINDL : 0.69 KPA

**SPECIFIED SNOW LOAD**

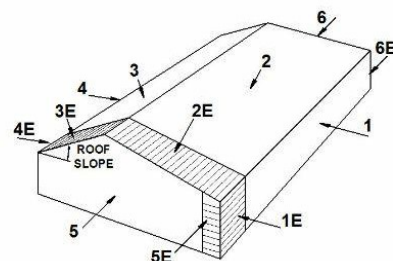
$S = Is[Ss(CbCwCsCa)+Sr]$  [4.1.6.2]  
 Location: Resolute, Nunavut  
 $Ss = 2 \text{ kPa} / Sr = 0.1 \text{ kPa}$ , Importance Factor, ULS:  $Is = 1.0 / SLS: Is = 0.9$   
**ULS:**  
 $S = 1.0[2(0.8*1.0*1*1.0)+0.1] = 1.7\text{kPa}$   
 $S = 1.7 \text{ kPa}$ ,  $S = 35.5 \text{ psf}$   
**SLS:**  
 $S = 0.9[2(0.8*1.0*1*1.0)+0.1] = 1.53\text{kPa}$   
 $S = 1.53 \text{ kPa}$ ,  $S = 32 \text{ psf}$

**SEISMIC LOAD:**

**Input Values**  
 Location: Resolute, Nunavut  
 $Sa(0.2) = 0.194$        $Sa(0.5) = 0.105$   
 $Sa(1.0) = 0.057$        $Sa(2.0) = 0.028$   
 $Sa(5.0) = 0.0069$        $Sa(10.0) = 0.003$   
 $PGA = 0.124$        $PGV = 0.084$   
 Site class = C

**WIND:**

Location: Resolute, Nunavut  
 $q50: 0.69\text{kPa}$ , Importance Factor, ULS:  $Iw = 1.0 / SLS: Iw = 0.75$



**WIND PRESSURE SIDES**

**RECOMMENDED GRADATION FOR TYPE 1, TYPE 2 AND SELECT SUBGRADE MATERIALS**

THE GRAVEL BASE COURSE SHOULD BE COMPACTED TO A UNIFORM DRY DENSITY OF 100 PERCENT OF SPMDD WITHIN ± 2% OF THE OMC. A RECOMMENDED TYPICAL GRADATION FOR STABLE GRANULAR MATERIAL, FOR BACKFILL. THE GEOTEXILE SEPARATOR BETWEEN THE EXISTING GRADE AND THE NEW GRAVEL SHOULD CONSIST OF A NON-WOVEN GEOTEXILE SUCH AS NILEX 4551 GEOTEXILE OR EQUIVALENT.

Property	ASTM Test Method	Type 2 (Sub-Base)	Type 1 (Base)	Select Subgrade
Gradation (sieve/% passing)	-	-	-	-
150 mm	C136	-	-	100
75.0 mm	C136	100	-	-
37.5 mm	C136	-	-	-
25.0 mm	C136	50 – 100	100	50 – 100
19.0 mm	C136	-	75 – 100	-
9.5 mm	C136	-	50 – 85	-
4.75 mm	C136	20 – 55	35 – 65	20 – 100
2.0 mm	C136	-	25 – 50	-
0.425 mm	C136	5 – 35	15 – 30	-
0.300 mm	C136	-	-	5 – 95
0.150 mm	C136	-	-	2 – 65
0.075 mm	C117	0 – 8	5 – 8	0 – 25

**ADDITIONAL NOTES:**

- NO GEOTECHNICAL REPORT WAS PROVIDED TO THIS OFFICE AT THE TIME OF DESIGN. THE NEW FOUNDATION IS BASED ON GA'S PREVIOUS PROJECTS, AND IS DESIGNED FOR FOOTINGS ON GRADE. SEASONAL ADJUSTMENT IS EXPECTED FOR THIS TYPE OF FOUNDATION. A GEOTECHNICAL REVIEW AND INVESTIGATION OF SITE IS REQUIRED TO MINIMIZE THE SEASONAL MOVEMENTS.
- ALL JOIST DIRECTIONS PROVIDED BY CONTRACTOR
- FOR ALL NEW AND EXISTING WALL ASSEMBLY AND LOCATION REFER TO ARCH.
- FOR MORE DETAIL FOR STAIRS REFER TO ARCH
- CONTRACTOR TO COORDINATE BEAMS WITH MECHANICAL CHASES & DUCTWORK AS NEEDED.
- THE OLD FOUNDATION TO BE REPLACED WITH THE NEW FOUNDATION AS PER INSTRUCTED.
- CONTRACTOR TO HAVE THE BUILDING SUPPORTED AT ALL TIMES DURING THE TRANSITION.
- ALL WOOD CONNECTORS AND HOLD DOWNS TO BE SIMPSON STRONG TIE CONNECTION. CONTRACTOR TO FOLLOW MANUFACTURER'S MANUAL.

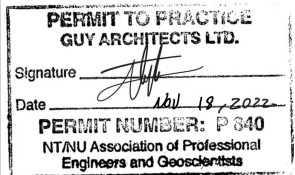
Load Case B: Winds generally parallel to ridge

Side	Load Case A			Load Case B		
	C <sub>p</sub> C <sub>g</sub>	ULS	SLS	C <sub>p</sub> C <sub>g</sub>	ULS	SLS
		p (kPa)	p (kPa)		p (kPa)	p (kPa)
1	0.97	0.6	0.45	-0.85	-0.53	-0.4
1E	1.46	0.91	0.68	-0.9	-0.56	-0.42
2	-1.3	-0.81	-0.61	-1.3	-0.81	-0.61
2E	-2	-1.24	-0.93	-2.0	-1.24	-0.93
3	-0.88	-0.55	-0.41	-0.7	-0.43	-0.33
3E	-1.27	-0.79	-0.59	-1.0	-0.62	-0.47
4	-0.77	-0.48	-0.36	-0.85	-0.53	-0.4
4E	-1.16	-0.72	-0.54	-0.9	-0.56	-0.42
5	n/a	n/a	n/a	0.75	0.47	0.35
5E	n/a	n/a	n/a	1.15	0.71	0.54
6	n/a	n/a	n/a	-0.55	-0.34	-0.26
6E	n/a	n/a	n/a	-0.8	-0.5	-0.37

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 F (867) 873-3366  
 E wayne@guyarchitects.com  
 W www.guyarchitects.com

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PROJECT  
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NOTES

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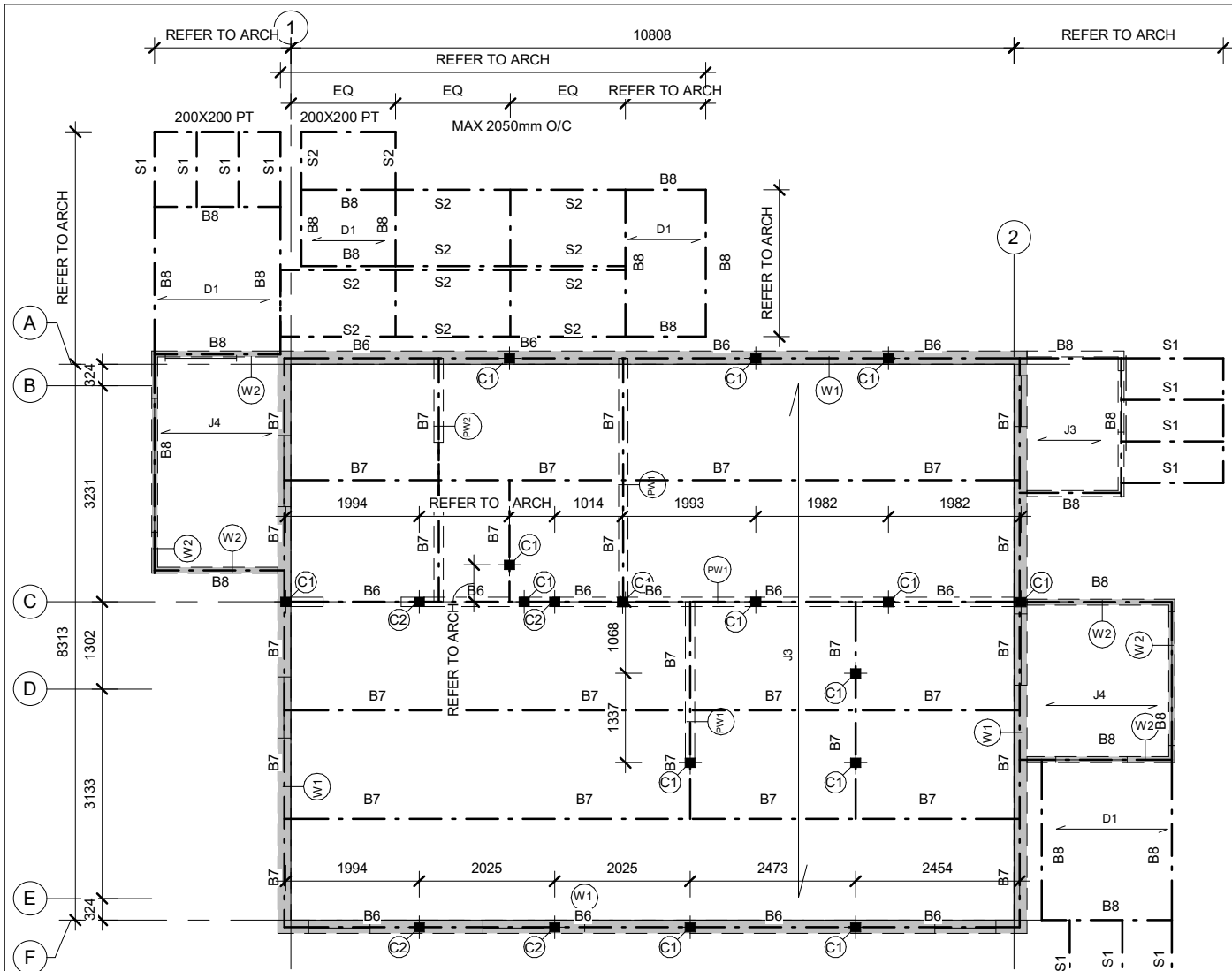
DESIGN: RWG  
 DRAWN: AP

PROJECT: 20103  
 SCALE:

**S100**







# MAIN FLOOR FRAMING

1 : 100

- F1: NEW PERMANENT SCREW JACK:**
- USE SCREW JACK WITH CAPACITY OF MIN 10 TONNES EQUIVALENT TO PAUL BROS NEXTREME TYPE 1
  - W/ 2-12mm DIA THROUGH BOLTS W/ WASHER AND NUT TO CONNECT SADDLE TO GRADE BEAM
  - USE MIN 4-12mm Ø DIA. LAG SCREWS TO FASTEN JACK TO BELOW PAD.
  - SLEEVE TO BE SECURE TO BELOW PAD W/ MIN 8-6mm LAG SCREWS.
  - 900X900mm PAD MADE-UP OF MIN 3 ROWS OF PT 2X6. EACH ROW TO BE NAILED TO BELOW ROW
  - W/ MIN 13mm PT PLYWOOD NAILED AT TOP OF 3 ROWS OF PT 2X6
  - MIN 152MM 100±2% COMPACTED 20mm MINUS GRANULAR FILL BELOW W/ A NON-WOVEN GEOTEXILE SUCH AS NILEX 4551 GEOTEXILE OR EQUIVALENT BETWEEN NEW FILL AND EXISTING GRADE
  - LAG SCREWS TO PENETRATE PLYWOOD AND 2X6
- F2: NEW CRIBBING FOUNDATION:**
- 600X600mm CRIBBING FOUNDATION MADE UP OF 38X140mm. EACH ROW TO BE NAILED TO BELOW ROW
  - CRIBBING TO BE AS CLOSE AS POSSIBLE TO BE UNDER THE POSTS
  - A 900X900mm WOODEN PAD MADE UP OF 3 ROWS OF PT 38X140mm LUMBER UNDER EACH CRIBBING
  - W/ MIN 13mm PT PLYWOOD NAILED AT TOP OF 3 ROWS OF PT 2X6
  - GRADE BEAMS TO BE SECURED ON T.O. CRIBBING WITH MIN AN L100X100X64mm ANGLE ON EACH SIDE FOR LATERAL RESISTANCE OF THE FOUNDATION
  - MIN 152MM 100±2% COMPACTED 20mm MINUS GRANULAR FILL BELOW W/ A NON-WOVEN GEOTEXILE SUCH AS NILEX 4551 GEOTEXILE OR EQUIVALENT BETWEEN NEW FILL AND EXISTING GRADE
- PADS UNDER FUEL TANKS:**
- MIN 300MM 100±2% COMPACTED 20mm MINUS GRANULAR FILL AS SUB-BASE
  - MIN 152MM 100±2% COMPACTED 20mm MINUS GRANULAR FILL BELOW W/ A NON-WOVEN GEOTEXILE SUCH AS NILEX 4551 GEOTEXILE OR EQUIVALENT BETWEEN NEW FILL AND EXISTING GRADE
  - PRECAST PAVERS UNDER THE FEET OF THE STAND FOR THE TANKS ON TOP OF GAVEL FILL. REFER TO MECH.
  - FOR LOCATION AND DIMENSION OF THE PAD UNDER FUEL TANKS REFER TO ARCH & MECH

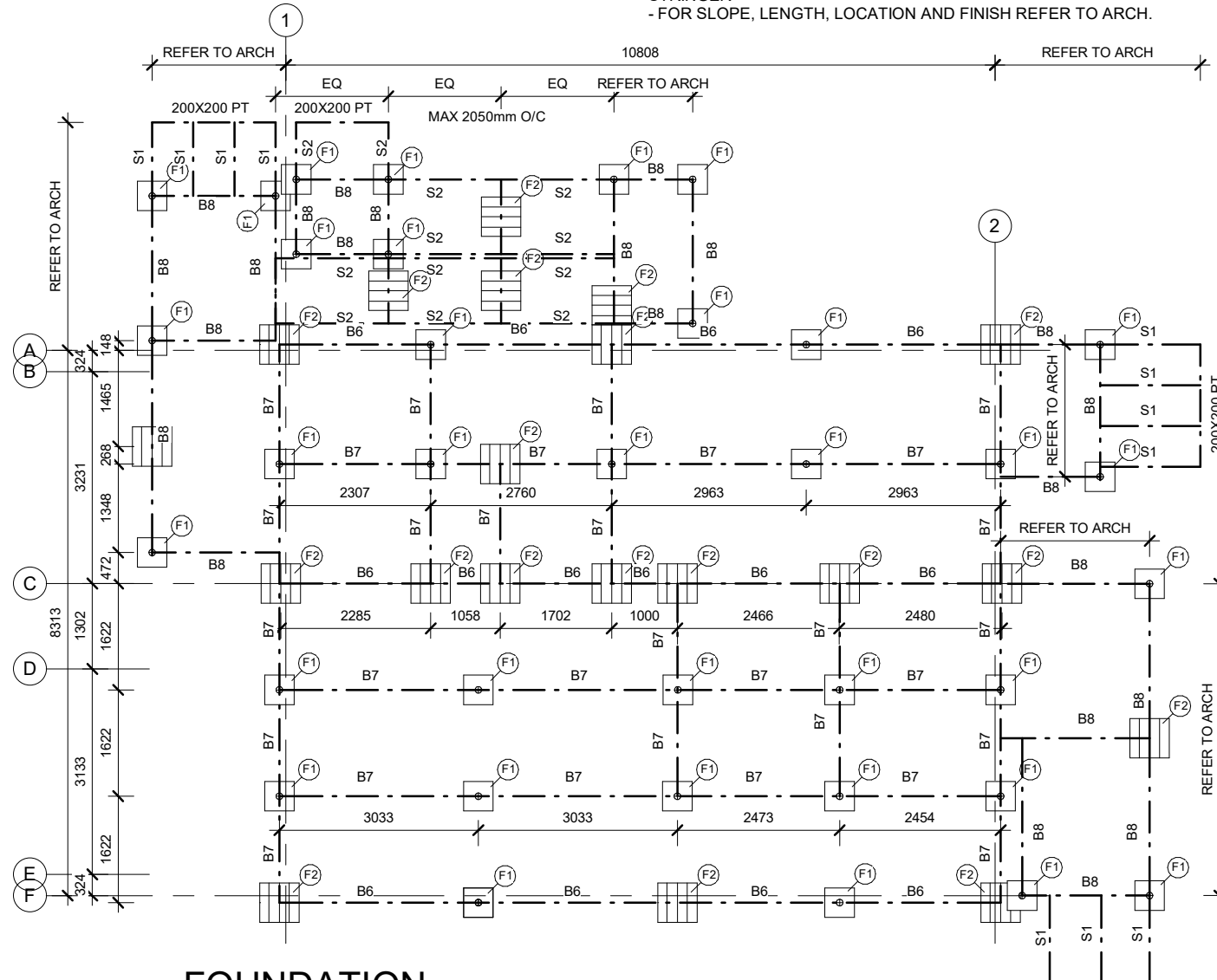
**NOTE:**

- ALL WALLS/ POSTS/LINTELS SHOWN ARE ABOVE FLOOR LEVEL
- BEAMS SHOWN ARE BELOW FLOOR LEVEL
- BEAMS IN THE CRAWLSPACE AND EXT. MAIN FLOOR JOIST NOT TO CANTILEVER OVER SUPPORTS MORE THAN 300mm FROM CL OF SUPPORTS.

- NOTES:**
- THE OLD FOUNDATION TO BE REPLACED WITH THE NEW FOUNDATION AS PER INSTRUCTED ABOVE.
  - CONTRACTOR TO HAVE THE BUILDING SUPPORTED AT ALL TIMES DURING THE TRANSITION
  - ALL JOIST DIRECTIONS PROVIDED BY CONTRACTOR
  - ALL NEW BEAMS TO BE FASTENED TO EXISTING JOISTS W/ A23 SIMPSON TIES ON EVERY THIRD JOIST
  - FOR ALL NEW AND EXISTING WALL ASSEMBLY AND LOCATION REFER TO ARCH.
  - FOR LOCATION/ SIZE AND DETAILS FOR STAIRS AND RAMP REFER TO ARCH
  - USE 2 ROWS OF BLOCKING BETWEEN NEW COLUMNS IN THE WALLS AND NEW/EXISTING STUDS
  - CONTRACTOR TO COORDINATE BEAMS WITH MECHANICAL CHASES & DUCTWORK AS NEEDED.
  - LOADBearing INTERIOR WALLS ARE SHOWN ON THESE PLANS. FOR REST OF THE WALLS REFER TO ARCH.
  - THE MAXIMUM JOIST SPANS ARE BASED ON NBC2015 PART 9 SPAN TABLES AND FORTEWEB SOFTWARE.
  - BEAMS UNDER NEW/EXT. VESTIBULES TO ATTACH TO BEAMS UNDER MAIN BUILDING W/ SIMPSON ANGLES AND STRAPS TO AVOID DIFFERENTIAL MOVEMENTS.

- B6: NEW DROP LVL GRADE BEAM**
- 4-PLY 44X286mm LVL BEAMS
  - MAX SPACING = 2000MM O/C UNDER BUILDING. THIS SPACING IS REQUIRED TO ADDRESS NEW LOAD ON EXISTING 38X140mm FLOOR JOISTS.
  - USE SIMPSON STRONG TIE A23 ANGLES TO TIE THE EXISTING JOISTS TO BELOW GRADE BEAM ON EVERY SECOND JOIST
  - USE BLOCKING IN BETWEEN EXISTING JOISTS ON TOP OF GRADE BEAMS
  - W/ SOLID BLOCKING BETWEEN EXISTING JOISTS UNDER POSTS/LOAD BEARING WALLS COMING DOWN ON THE BEAMS.
- B7: NEW DROP LVL GRADE BEAM**
- 3-PLY 44X286mm LVL BEAMS
  - USE SIMPSON STRONG TIE A23 ANGLES TO TIE THE EXISTING JOISTS TO BELOW GRADE BEAM ON EVERY SECOND JOIST
  - W/ SOLID BLOCKING BETWEEN EXISTING JOISTS UNDER POSTS/LOAD BEARING WALLS COMING DOWN ON THE BEAMS
  - EXTRA BEAMS UNDER LOAD BEARING WALLS
- B8: NEW DROP BUILT-UP GRADE BEAM**
- 2-PLY 28X286mm BEAMS. MAX L=3300mm
  - USE SIMPSON STRONG TIE A23 ANGLES TO TIE THE EXISTING JOISTS TO BELOW GRADE BEAM ON EVERY SECOND JOIST
  - W/ SOLID BLOCKING BETWEEN EXISTING JOISTS UNDER POSTS/LOAD BEARING WALLS COMING DOWN ON THE BEAMS
- J3: EXT. FLOOR JOISTS**
- 38X140mm JOISTS @ 400mm O/C (CONTRACTOR TO CONFIRM)
  - TO BE SUPPORTED FROM U/S TO REDUCE SPAN TO BE MAX 2500mm O/C FOR NEW OCCUPANCY LOADS
  - W/ MIN 16mm PLYWOOD NAILED AND GLUED ON TOP.
  - CONTRACTOR TO CONFIRM JOIST ARE SOUND. TO BE REPLACE IF REQUIRED.
  - CONTRACTOR TO ADD BLOCKING BETWEEN EXT. JOISTS ON T/O NEW BEAMS

- J4: NEW VESTIBULE FLOOR JOISTS**
- 38X184mm JOISTS @ 400mm O/C
  - AT EXT. WALLS, ATTACHED TO 38X286mm LEDGER WITH JOIST HANGERS
  - LEDGER TO BE FASTENED TO EXT. WALL STUDS W/ 2 ROWS OF 13mm Ø DIA LAG SCREWS @ MAX 400mm O/C (TO MATCH EXT. STUD WALL SPACING)
  - USE SIMPSON STRONG TIE A23 ANGLES TO SECURE TO BEAM BELOW
  - W/ RIM BOARD/JOIST AT ENDS
  - REFER TO ARCH FOR SECTIONS AND ASSEMBLY.
  - W/ MIN 16mm PLYWOOD NAILED AND GLUED ON TOP.
- D1: NEW DECK/LANDING JOISTS**
- 38X184mm JOISTS @ 400mm O/C
  - USE SIMPSON STRONG TIE A23 ANGLES TO SECURE TO BEAM BELOW
  - W/ RIM BOARD/JOIST AT ENDS
  - REFER TO ARCH FOR SECTIONS AND ASSEMBLY.
- S1 - EXTERIOR STAIR STRINGER**
- 38X286MM PT @ MAX 600MM O/C
  - ATTACHED TO LANDING DOUBLE JOIST WITH SIMPSON STRONG-TIE ADJUSTABLE HANGERS
  - ATTACHED TO T.O. 200X200MM PT BURIED SLEEPER WITH SIMPSON STRONG-TIE A33 ANGLES
  - MIN 1 ON EACH STRINGER
  - FOR TREAD, RISE, LENGTH, LOCATION AND FINISH REFER TO ARCH.
- S2 - RAMP STRINGER**
- 38X235MM PT + 38X184MM PT @ MAX 914MM O/C
  - ATTACHED TO LANDING JOIST/RIM JOIST WITH SIMPSON STRONG-TIE ADJUSTABLE HANGERS
  - SUPPORTED ON B4 BEAM AT MAX 2050MM O/C WITH SIMPSON STRONG-TIE STRAPS AND A33 ANGLES
  - ATTACHED TO T.O. 203X203MM PT BURIED SLEEPER AT THE END OF RAMP WITH SIMPSON STRONG-TIE A33 ANGLES MIN 1 ON EACH STRINGER
  - FOR SLOPE, LENGTH, LOCATION AND FINISH REFER TO ARCH.



# FOUNDATION

1 : 100

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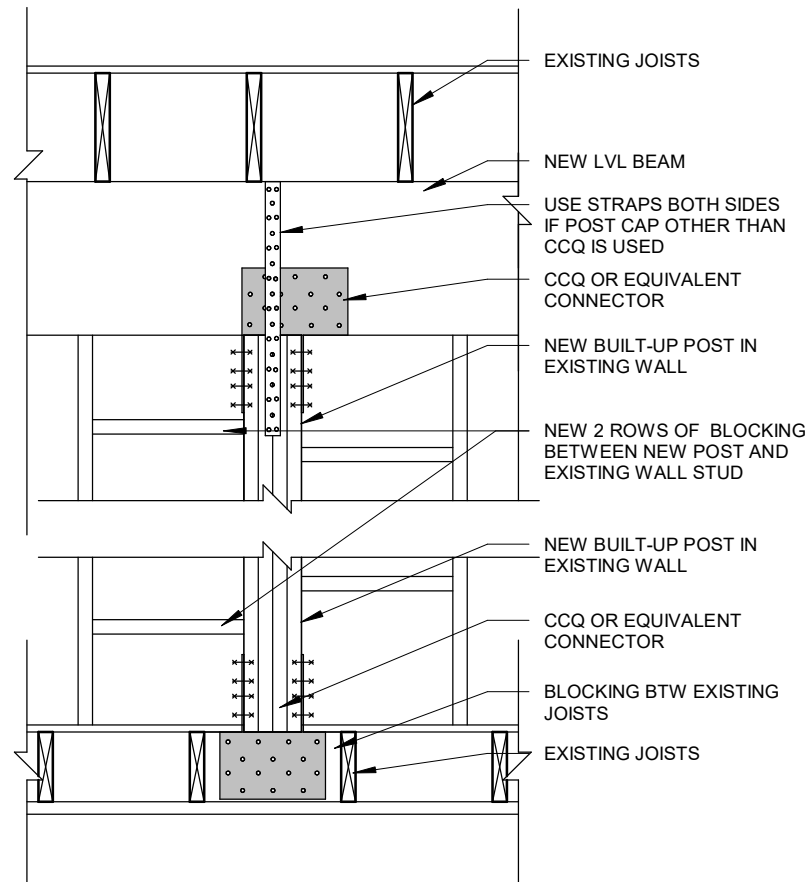
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**FRAMING PLAN**

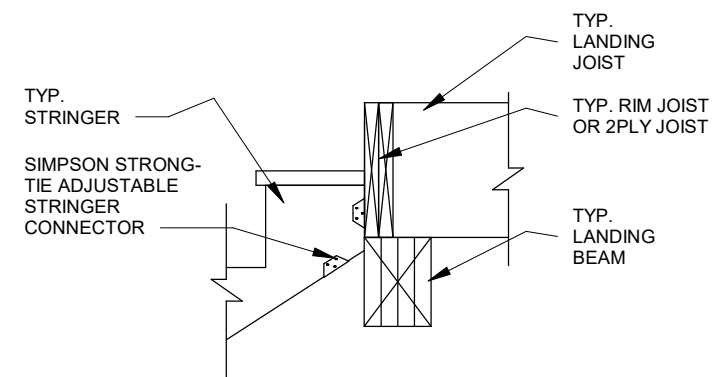
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PROJECT 20103	<b>S102</b>
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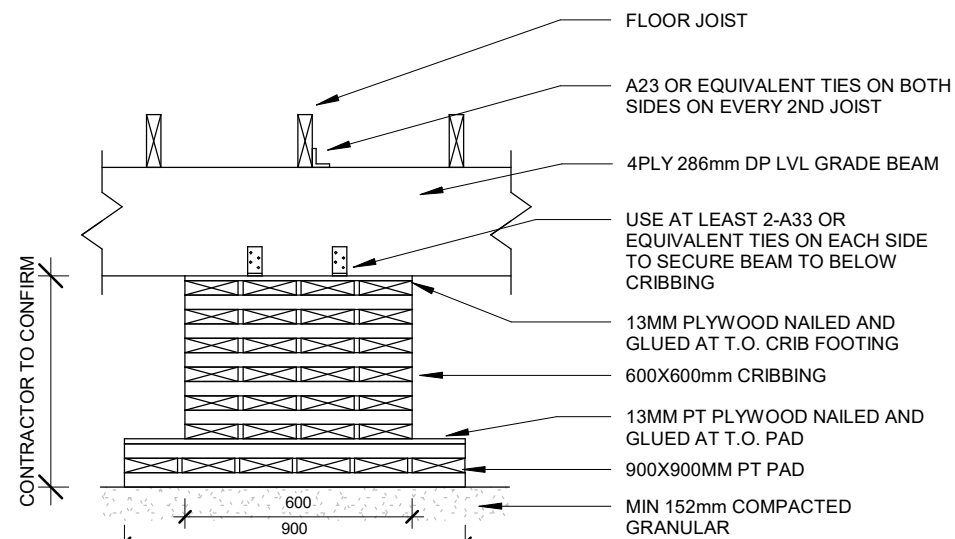




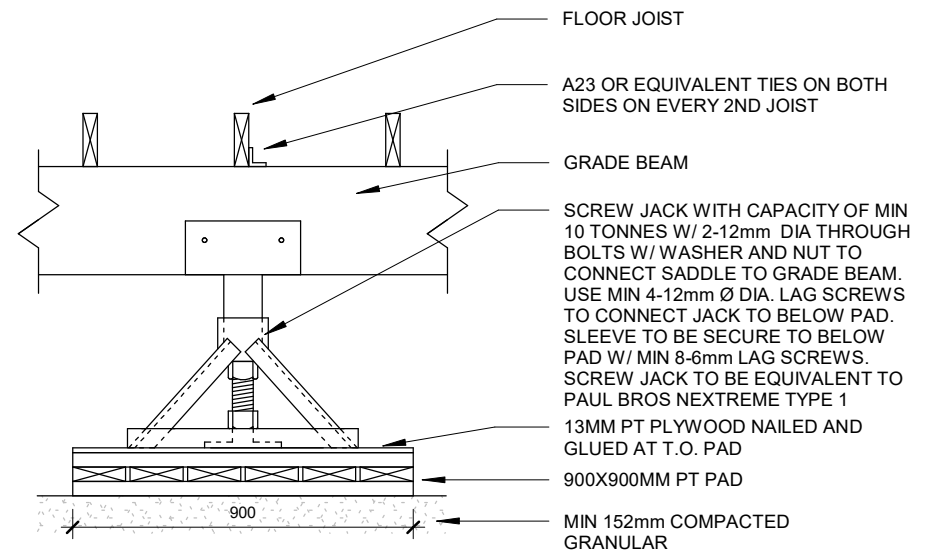
**1** POST/BEAM/FLOOR CONNECTION  
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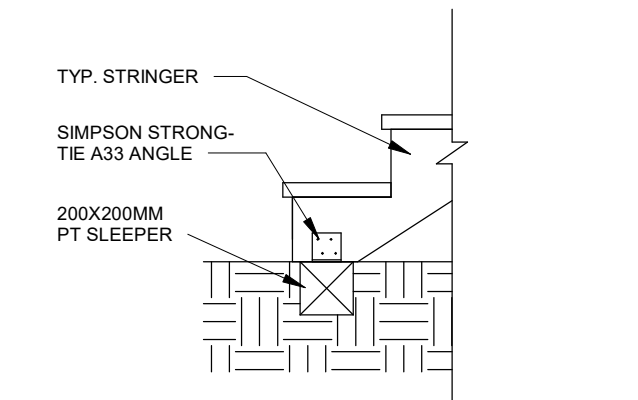
**4** TYP. STRINGER TO LANDING  
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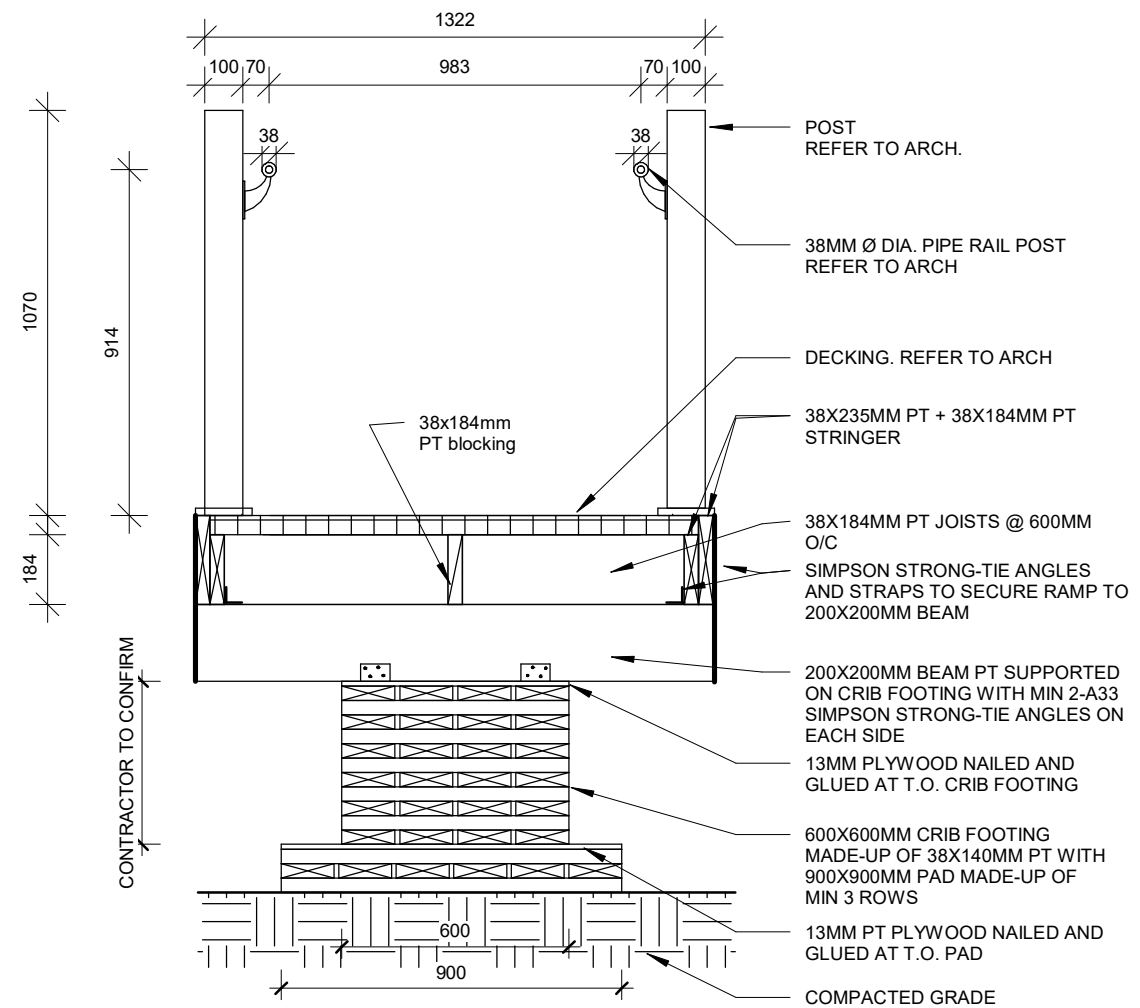
**2** CRIBBING  
1 : 20



**3** SCREW JACK  
1 : 20



**5** TYP. STRINGER TO GRADE  
1 : 20



**6** TYP. RAMP SECTION  
1 : 20



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BUILDING  
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DETAILS

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DRAWN: AP

PROJECT: 20103

SCALE: 1 : 20

**S103**

**MECHANICAL ABBREVIATIONS**

**EQUIPMENT ABBREVIATIONS**

EQUIPMENT NAME	ABBREVIATION
FURNACE	"F"
ENERGY RECOVERY VENTILATOR	"ERV"
HEAT RECOVERY VENTILATOR	"HRV"
MAKE-UP AIR UNIT	"MUA"
AIR HANDLING UNIT	"AHU"
ROOF-TOP UNIT	"RTU"
FAN COIL	"FC"
INFRARED RADIANT HEATER	"IRH"
UNIT HEATER	"UH"
FORCE FLOW HEATER	"FF"
CABINET UNIT HEATER	"CUH"
BASEBOARD HEATER	"BB"
REHEAT COIL	"RHC"
MIXED AIR VOLUME BOX	"MAV"
VARIABLE AIR VOLUME BOX	"VAV"
BOILER	"B"
CHILLER	"CH"
AIR CONDITIONING COIL	"AC"
AIR CONDITIONING CONDENSER	"CND"
HUMIDIFIER	"H"
EXHAUST FAN	"EF"
TRANSFER FAN	"TF"
ANTI-STRATIFICATION FAN	"ASF"
RANGE HOOD	"RH"
FUME HOOD	"FH"
VEHICLE EXHAUST	"VE"
COMPRESSOR	"CMP"
DOMESTIC WATER HEATER	"DWH"
PUMPS	"P"
EXPANSION TANK	"ET"
SEPTIC TANK	"ST"
SUMP	"SMP"
FIRE EXTINGUISHER	"FE"
BALANCING DAMPER	"BD"
BACKDRAFT DAMPER	"BDD"
FIRE DAMPER	"FD"
MOTORIZED DAMPER	"MD"

**PLUMBING FIXTURE ABBREVIATIONS**

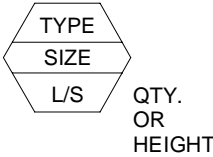
FIXTURE NAME	ABBREVIATION
WATER CLOSET	"WC"
LAVATORY	"LAV"
URINAL	"URN"
SINK	"SK"
SHOWER	"SH"
BATH TUB	"BT"
DRINKING FOUNTAIN	"DF"
EYE WASH STATION	"EW"
GREASE INTERCEPTOR	"GI"
WATER SOFTENER	"WS"
DISHWASHER	"DW"
MOP SINK	"MS"
REFRIGERATOR	"FRG"
RANGE	"RNG"
LAUNDRY BOX	"LB"
FLOOR DRAIN	"FD"
FUNNEL FLOOR DRAIN	"FFD"
TRENCH DRAIN	"TD"
HUB DRAIN	"HD"
ROOF DRAIN	"RD"
HOSE BIBB	"HB"
NON-FREEZE HOSE BIBB	"NFHB"
CLEANOUT	"CO"

**DIFFUSER AND GRILLE ABBREVIATIONS**

SYSTEM NAME	TYPE ABBREVIATION
SUPPLY	"S"
RETURN	"R"
EXHAUST	"E"
LOUVRE	"L"
TRANSFER	"T"

**HVAC SYSTEM ABBREVIATIONS**

SYSTEM NAME	ABBREVIATION
SUPPLY AIR	"S/A"
RETURN AIR	"R/A"
EXHAUST AIR	"E/A"
FRESH AIR	"F/A"
OUTDOOR AIR	"O/A"
TRANSFER AIR	"T/A"



**PLUMBING SYSTEM ABBREVIATIONS**

SYSTEM NAME	ABBREVIATION
NATURAL GAS	"G"
DOMESTIC COLD WATER	"DCW"
DOMESTIC HOT WATER	"DHW"
DOMESTIC HOT WATER RETURN	"DHW R"
WATER SERVICE	"W"
SANITARY	"SAN"
STORM	"STM"
FIRE PROTECTION DRY	"FPD"
FIRE PROTECTION WET	"FPW"
DRAIN LINE	"DR"
COMPRESSED AIR	"CA"
SANITARY VENT	"V"
WEEPING TILE	"WT"
HEATING WATER SUPPLY	"HWS"
HEATING WATER RETURN	"HWR"
GLYCOL SUPPLY	"GLS"
GLYCOL RETURN	"GLR"
CHILLED WATER SUPPLY	"CHWS"
CHILLED WATER RETURN	"CHWR"
CONDENSER WATER SUPPLY	"CWS"
CONDENSER WATER RETURN	"CWR"
CONDENSATE	"CNDS"
REFRIGERANT LIQUID	"RL"
REFRIGERANT VAPOR	"RV"

**GENERAL SITE NOTES**

- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE CIVIL LEGEND AND CIVIL ABBREVIATIONS DRAWINGS.
- READ THE MECHANICAL SITE DRAWINGS IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL.
- REFER TO THE ELECTRICAL DRAWINGS FOR POWER AND TELECOMMUNICATION SERVICE AND SITE ELECTRIFICATION INFORMATION.
- CONSTRUCTION LIMITS ARE APPROXIMATE, VERIFY WITH OWNER PRIOR TO COMMENCING WORK.
- EXPOSE, SURVEY AND VERIFY ALL UNDERGROUND UTILITY TIE-INS AND CROSSINGS PRIOR TO COMMENCING WORK.

**GENERAL PLUMBING NOTES**

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE INTENT ONLY. PROVIDE ALL VERTICAL AND HORIZONTAL OFFSETS NOT NECESSARILY IDENTIFIED IN THE DRAWINGS IN A MANNER THAT MEETS ALL CODE REQUIREMENTS.
- SIZE ALL PLUMBING LINES TO THE NATIONAL PLUMBING CODE.
- FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED WALLS.
- ALL DOMESTIC PLUMBING FIXTURES ARE TO HAVE ISOLATION VALVES.
- DOMESTIC COLD AND HOT WATER LINES ARE TO BE SIZED AT 1/2" UNLESS NOTED OTHERWISE. SIZE ALL LINES TO THE NATIONAL PLUMBING CODE REQUIREMENTS.
- INSTALL HEAT TRAPS ON THE INCOMING DOMESTIC COLD LINE AT ALL DOMESTIC WATER HEATERS.
- EACH GAS CONNECTION TO AN APPLIANCE SHALL BE MADE WITH A UNION, ISOLATION GAS COCK AND DIRT LEG. GAS LINES TO BE SIZED TO CAN/CSA B149.1-10. INCLUDE GASTITE FLEX CONNECTION FOR RANGES. HARD PIPE ALL OTHER MECHANICAL EQUIPMENT.
- COORDINATE PLUMBING LINES AND FIXTURES/ EQUIPMENT WITH ALL OTHER DISCIPLINES.
- VENT ALL PLUMBING EQUIPMENT AND FIXTURES AS REQUIRED BY CODE. GROUP FIXTURES AS REQUIRED BY CODE. GROUP FIXTURE VENTS TO MINIMIZE ROOF OPENINGS AND PENETRATIONS.
- ALL FLOOR DRAINS ARE TO BE COMPLETE WITH TRAP PRIMERS.
- OIL FUEL LINES AND FUEL PIPING IS TO BE INSTALLED IN COMPLIANCE WITH CAN/CSA B139.

**GENERAL HVAC NOTES**

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE INTENT ONLY. PROVIDE ALL VERTICAL AND HORIZONTAL OFFSETS NOT NECESSARILY IDENTIFIED IN THE DRAWINGS IN A MANNER THAT MEETS ALL CODE REQUIREMENTS.
- VENTILATION EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
- DUCTWORK SHALL MEET THE REQUIREMENTS OF NFPA-90A-2012, AIR CONDITIONING AND VENTILATING SYSTEMS. DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH SMACNA AND ASHRAE MANUALS AND HANDBOOKS. EXHAUST HOOD AND DUCTING SHALL MEET THE REQUIREMENTS OF NFPA-96.
- PROVIDE AND INSTALL FIRE DAMPERS WHERE REQUIRED TO MAINTAIN FIRE SEPARATION. FIRE DAMPERS ARE TO BE UL LISTED AND MANUFACTURED AS REQUIRED BY CAN/ULC-S112.2-07.
- THE FIRST 3 METERS (10'-0") OF ALL OUTSIDE AIR AND EXHAUST AIR DUCTING IS TO BE INSULATED WITH 25mm (1") THERMAL INSULATION.
- ALL DUCT SIZES SHOWN ACCOUNT FOR FREE AIR SPACE REQUIRED AS WELL AS INSULATION.
- COORDINATE HVAC DUCTING AND EQUIPMENT WITH ALL OTHER DISCIPLINES.
- COORDINATE WITH CEILING HEIGHT RESTRICTIONS AND ARCHITECTURAL REFLECTED LIGHTING PLAN.

**FUEL SUPPLY STORAGE NOTES**

ALL OIL INSTALLS MUST BE IN COMPLIANCE WITH THE CSA B139 INSTALLATION CODE FOR OIL-BURNING EQUIPMENT AND OTHER APPLICABLE REGULATIONS. NOTE THAT FIRE MARSHAL TECHNICAL BULLETIN FM-066-2010 INCLUDES ADDITIONAL REQUIREMENTS TO THE CSA B139 "INSTALLATION CODE FOR OIL BURNING EQUIPMENT". ALTHOUGH THE CCME "ENVIRONMENTAL CODE OF PRACTICE FOR ABOVEGROUND AND UNDERGROUND STORAGE TANK SYSTEMS CONTAINING PETROLEUM AND ALLIED PRODUCTS" HAS NOT YET BEEN ADOPTED OFFICIALLY BY THE AHJ, THEY ARE REFERENCED IN THE NATIONAL FIRE CODE SO MUST BE FOLLOWED. THE 2008 ENVIRONMENT CANADA "STORAGE TANK SYSTEMS FOR PETROLEUM PRODUCTS AND ALLIED PETROLEUM PRODUCT REGULATIONS" MUST ALSO BE FOLLOWED.

IT WILL BE THE DESIGNERS RESPONSIBILITY TO ASCERTAIN AND COMPLY WITH THE MOST STRINGENT REQUIREMENTS OF ALL RELEVANT CODES.

THE ENVIRONMENT CANADA "FEDERAL PETROLEUM PRODUCT AND ALLIED PETROLEUM PRODUCTS STORAGE TANKS REGULATIONS" REQUIRE THE FOLLOWING FOR ALL STORAGE TANK SYSTEMS:

- DESIGN DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER.
- REGISTRATION WITH ENVIRONMENT CANADA (THIS INCLUDES EXISTING SYSTEMS).
- THE PROVISION OF SPILL PROTECTION AT STORAGE TANKS, EITHER BY DIKE OR DOUBLE WALL CONSTRUCTION, REGARDLESS OF TANK VOLUME, AND AT PRODUCT TRANSFER AREAS.
- THE PROVISION OF CORROSION PROTECTION, LEAK DETECTION, AND OVERFILL PROTECTION.
- KEEPING OF AS BUILT DRAWINGS ON SITE.

DUE TO STRINGENT REQUIREMENTS THESE REGULATIONS WILL REQUIRE, THE CAPITAL AND OPERATING COSTS OF UNDERGROUND STORAGE TANKS WILL BE PROHIBITIVE. UNDERGROUND STORAGE TANKS WILL, THEREFORE, NOT BE ACCEPTABLE UNDER ANY CIRCUMSTANCES.

**FUEL STORAGE TANKS LESS THAN 550 I. GAL LOCATED OUTSIDE BUILDING**

FUEL OIL TANKS LOCATED OUTSIDE THE BUILDING ARE USUALLY MOUNTED ADJACENT TO THE BUILDING ON A TANK STAND 1500mm MINIMUM FROM ANY MEANS OF EGRESS FROM THE BUILDING AND FROM ANY PROPERTY LINE. THE HEIGHT OF THE EXTERNAL TANK IS SET TO MINIMIZE THE NEED OF THE BURNER PUMPS TO LIFT THE FUEL OIL TO THE BURNER. THUS, THE TANK STAND IS SPECIFIED TO SIT THE TANK AT OR ABOVE THE MECHANICAL ROOM FLOOR HEIGHT. A SAGE LADDER OR STAIR SHOULD BE PROVIDED TO ALLOW THE FUEL TRUCK DRIVER ACCESS TO FILL THE TANK. FUEL FILL LINES AND VENT LINES ARE NORMALLY LOCATED ON TOP OF THE FUEL TANK. THE VENT LINE IS FITTED WITH A VENT WHISTLE AND MUST BE TERMINATED A MIN. OF 2400mm ABOVE FINISHED GRADE. THE TANK STAND SHOULD BE FIELD MEASURED BY THE CONTRACTOR FOR ACTUAL REQUIRED HEIGHT AND MUST BE SUPPORTED ON A NON COMBUSTIBLE SUPPORT. DOUBLE WALL VERTICAL FUEL VAULT TANKS MAY ALSO BE USED. OIL SHOULD BE HEATED TO AN APPROPRIATE TEMPERATURE READY FOR USE IN OIL-BURNING APPLIANCES. TYPICALLY, FUEL FLOWS BY GRAVITY FROM THE OUTSIDE STORAGE TANK TO THE APPLIANCE. IF THE LENGTH OF OIL PIPE INSIDE THE HEATED BUILDING IS SHORT, AND THERE IS NO DAY TANK, A LARGE DIAMETER PIPE OR WARMING PIPE SHOULD BE PROVIDED TO ALLOW THE FUEL OIL TIME TO WARM UP.



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**GENERAL NOTES**

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PPG	JBF	
PROJECT	20103	
SCALE	1:1	



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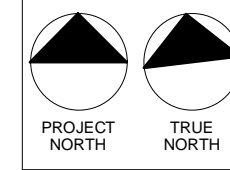
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DRAWING

**EXISTING/ DEMO  
PLANS**

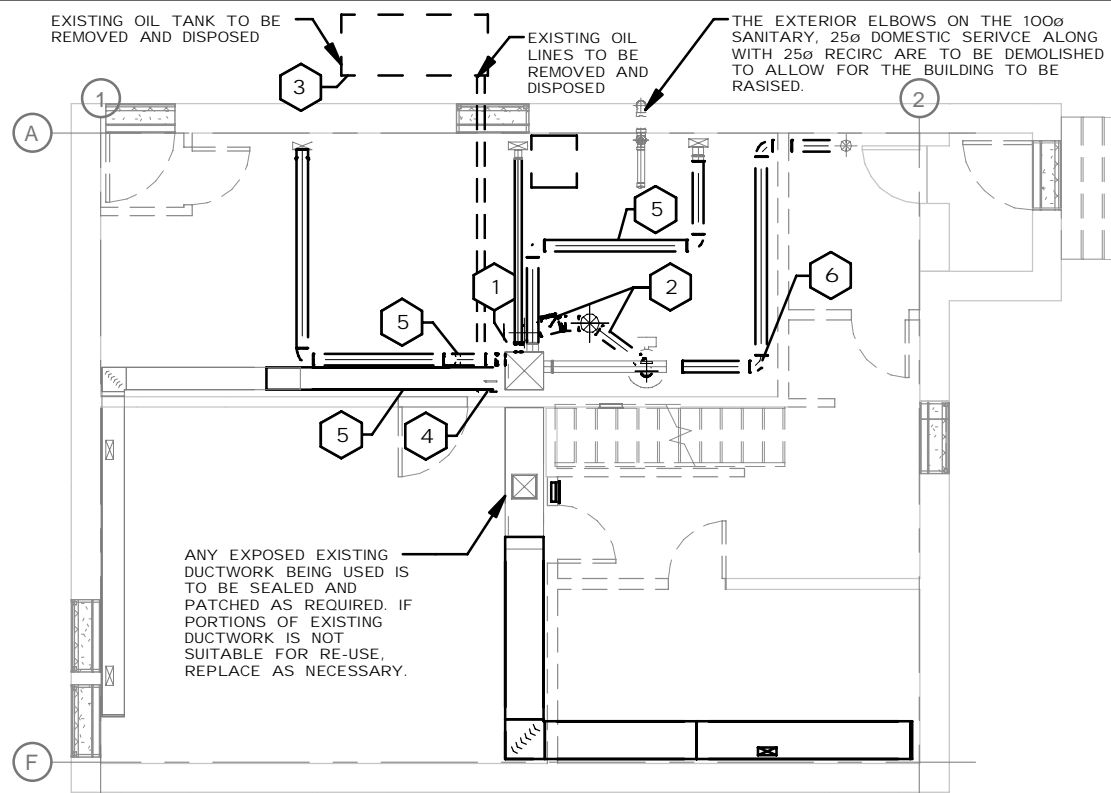
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PROJECT 20103		
SCALE 1 : 100		

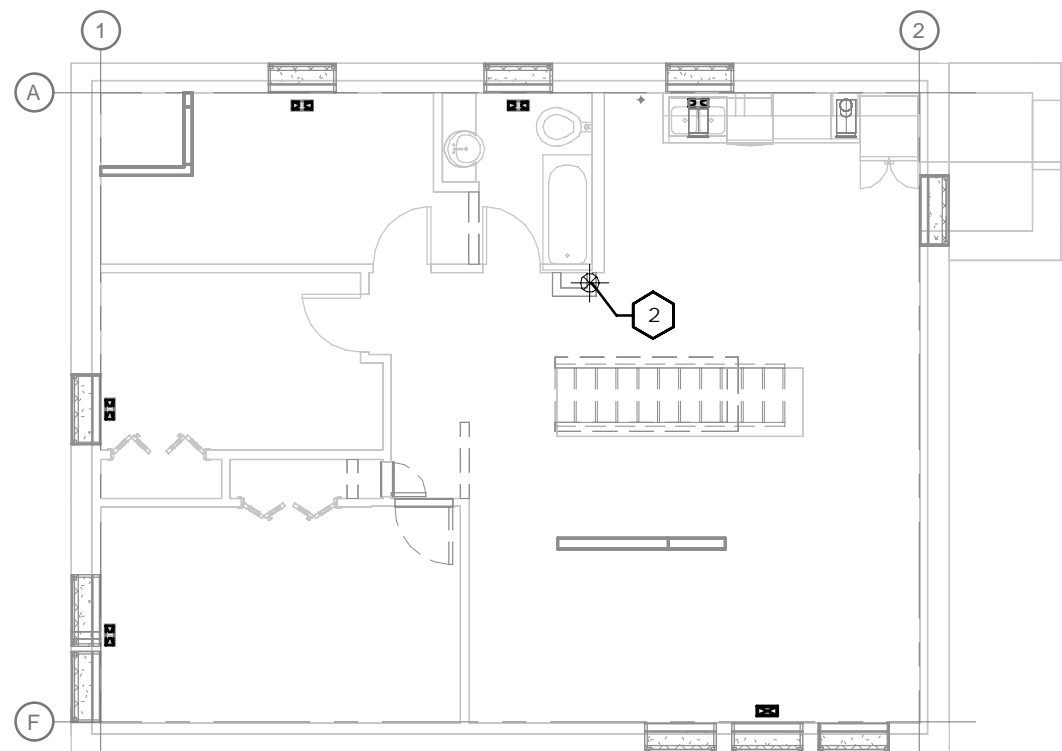


KEYNOTES

1. DEMO AND DISPOSE OF EXISTING FURNACE IN PREPARATION FOR NEW FURNACE.
2. DEMO AND DISPOSE THE ENTIRETY OF THE EXISTING VENTING FOR FURNACE AND HOT WATER HEATER.
3. DRAIN AND SALVAGE EXISTING FUEL OIL. BLOW DOWN SYSTEM TO ENSURE RESIDUAL FUEL IS REMOVED PRIOR TO DISCONNECTING LINES AND TANKS. ENSURE NO FUEL IS SPILLED ON SOIL AND PROVIDE CATCHMENTS TO MITIGATE WORKING AREAS. CONTRACTOR SHALL DOCUMENT CONDITIONS AND REMEDIATE SOIL IN CASE OF LOCAL SPILLS.
4. DISCONNECT AND DEMO EXISTING FUEL LINES.
5. DEMO SECTIONS OF EXISTING DUCTWORK IN MECHANICAL ROOM TO REINSTALL NEW DUCT UNDERNEATH OF NEW EXPOSED BEAMS.
6. DEMO SECTIONS OF EXISTING DUCTWORK IN MECHANICAL ROOM TO REINSTALL UNDERNEATH NEW DUCTING AS REQUIRED.



**1** EXISTING/DEMO GROUND FLOOR  
1 : 100



**2** EXISTING/ DEMO SECOND FLOOR PLAN  
1 : 100





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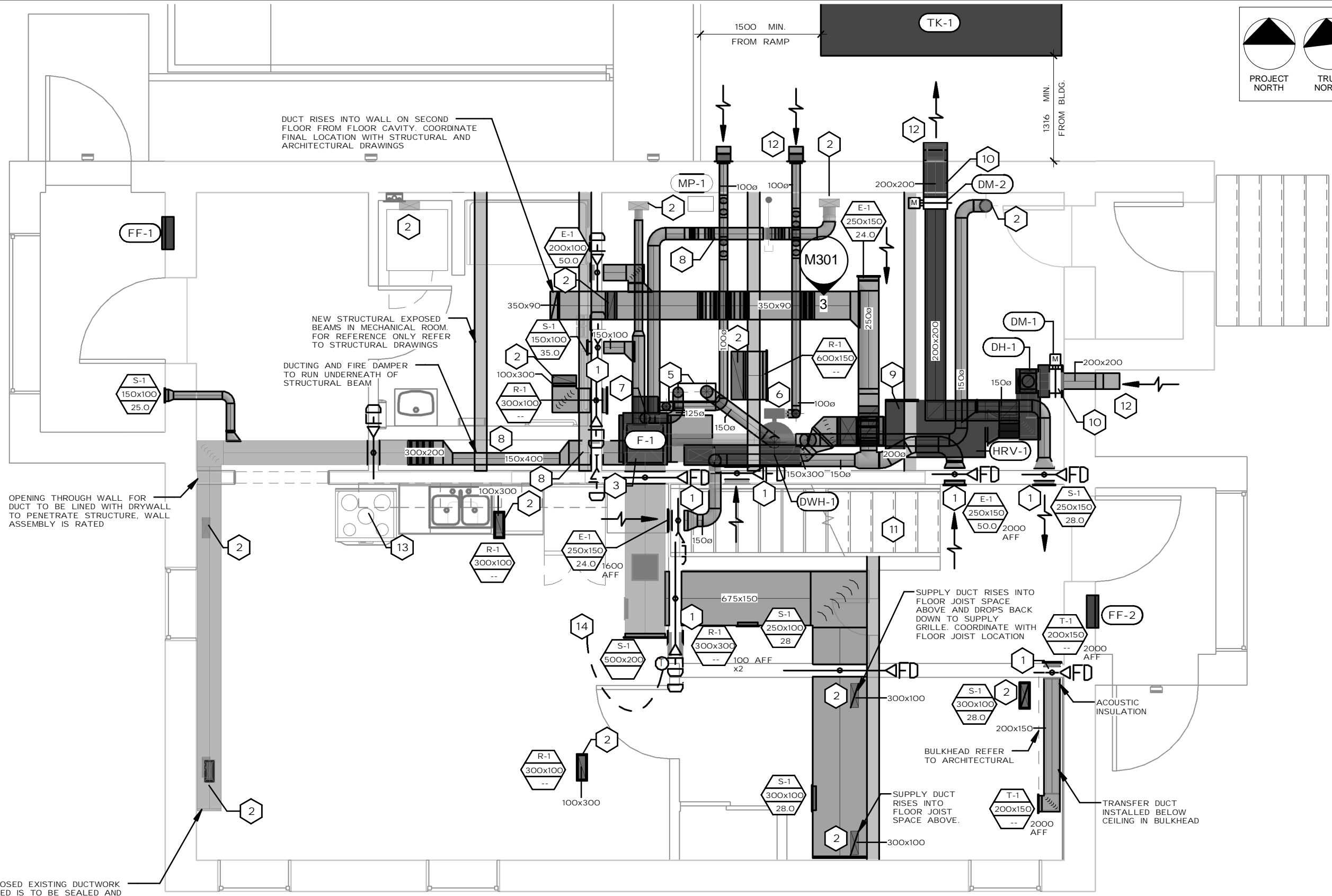
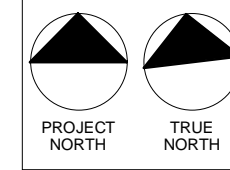
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DRAWING

**NEW GROUND  
FLOOR PLAN -  
HVAC**

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DESIGN	DRAWER	<b>M201</b>
PPG	JBF	
PROJECT	20103	
SCALE	1 : 50	



DUCT RISES INTO WALL ON SECOND FLOOR FROM FLOOR CAVITY. COORDINATE FINAL LOCATION WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS

NEW STRUCTURAL EXPOSED BEAMS IN MECHANICAL ROOM. FOR REFERENCE ONLY REFER TO STRUCTURAL DRAWINGS

DUCTING AND FIRE DAMPER TO RUN UNDERNEATH OF STRUCTURAL BEAM

OPENING THROUGH WALL FOR DUCT TO BE LINED WITH DRYWALL TO PENETRATE STRUCTURE, WALL ASSEMBLY IS RATED

SUPPLY DUCT RISES INTO FLOOR JOIST SPACE ABOVE AND DROPS BACK DOWN TO SUPPLY GRILLE. COORDINATE WITH FLOOR JOIST LOCATION

BULKHEAD REFER TO ARCHITECTURAL

SUPPLY DUCT RISES INTO FLOOR JOIST SPACE ABOVE.

TRANSFER DUCT INSTALLED BELOW CEILING IN BULKHEAD

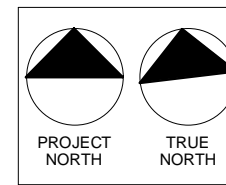
ANY EXPOSED EXISTING DUCTWORK BEING USED IS TO BE SEALED AND PATCHED AS REQUIRED. IF PORTIONS OF EXISTING DUCTWORK IS NOT SUITABLE FOR RE-USE, REPLACE AS NECESSARY.

**KEYNOTES**

1. PROVIDE FIRE DAMPERS IN EXISTING AND NEW DUCTWORK FOR PASSAGE THROUGH FIRE RATED WALL ASSEMBLY.
2. DUCT RISES THROUGH OR INTO FLOOR CAVITY. PROVIDE FIRE DAMPER IN DUCTWORK FOR PASSAGE THROUGH FIRE RATED FLOOR ASSEMBLY. COORDINATE WITH STRUCTURAL FOR EXACT FLOOR JOIST LOCATIONS.
3. RECONNECT EXISTING SUPPLY AND RETURN DUCTING TO NEW F-1 FURNACE.
4. INSULATE OUTDOOR AIR AND EXHAUST AIR DUCT OFF OF HRV-1.
5. OUTLINE OF NEW/ MODIFIED CHIMNEY CHASE THROUGH FLOOR UP TO ROOF. SEPARATE VENTS FOR THE NEW F-1 FURNACE AND EXISTING DOMESTIC WATER HEATER.
6. NEW AIR BOOT KIT AND VENTING INSTALLED ON EXISTING DOMESTIC WATER HEATER BURNER. FOLLOW MANUFACTURERS INSTALLATION GUIDELINES.
7. AIR BOOT KIT INSTALLED ON F-1 FURNACE BURNER. FOLLOW MANUFACTURERS INSTALLATION GUIDELINES.
8. DUCTING IS TO TRANSITION UNDER EXPOSED BEAMS AS REQUIRED. TRANSITION FROM ROUND TO SQUARE WHEN POSSIBLE TO MINIMIZE HEAD CLEARANCE ISSUES.
9. EXHAUST AIR DUCTING FROM HRV DROPS THROUGH FLOOR INTO CRAWLSPACE WITH MOTORIZED DAMPER. DUCTING LEAVES CRAWLSPACE AND RISES MINIMUM 1200 AFF TERMINATING WITH GOOSENECK. 50 THERMAL INSULATION WRAPPED AROUND BOTTOM AND SIDES OF DUCT IN CRAWLSPACE ALL THE WAY TO UNDERSIDE OF FLOOR ASSEMBLY TO BOX DUCT IN PLACE.
10. FRESH AIR DUCT IS TO BE WRAPPED WITH 100MM THERMAL INSULATION. EXHAUST AIR DUCT TO BE WRAPPED WITH 50MM THERMAL INSULATION.
11. PIPE CONDENSATE FROM HRV-1 TO THE NEAREST DRAIN LOCATION.
12. EXTERIOR AIR INTAKES ARE TO HAVE 3/4" BIRDSCREEN INSTALLED.
13. MICROWAVE RANGE HOOD INSTALLED ABOVE RANGE, RECIRCING AIR IN SPACE.
14. NEW HONEYWELL 8000 SERIES PROGRAMMABLE T-STAT WIRED BACK TO FURNACE.

**1 NEW GROUND FLOOR PLAN - HVAC**  
1 : 50





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11/18/2022

PROJECT  
**QANP OFFICE BUILDING RENOVATION**

RESOLUTE, NUNAVUT

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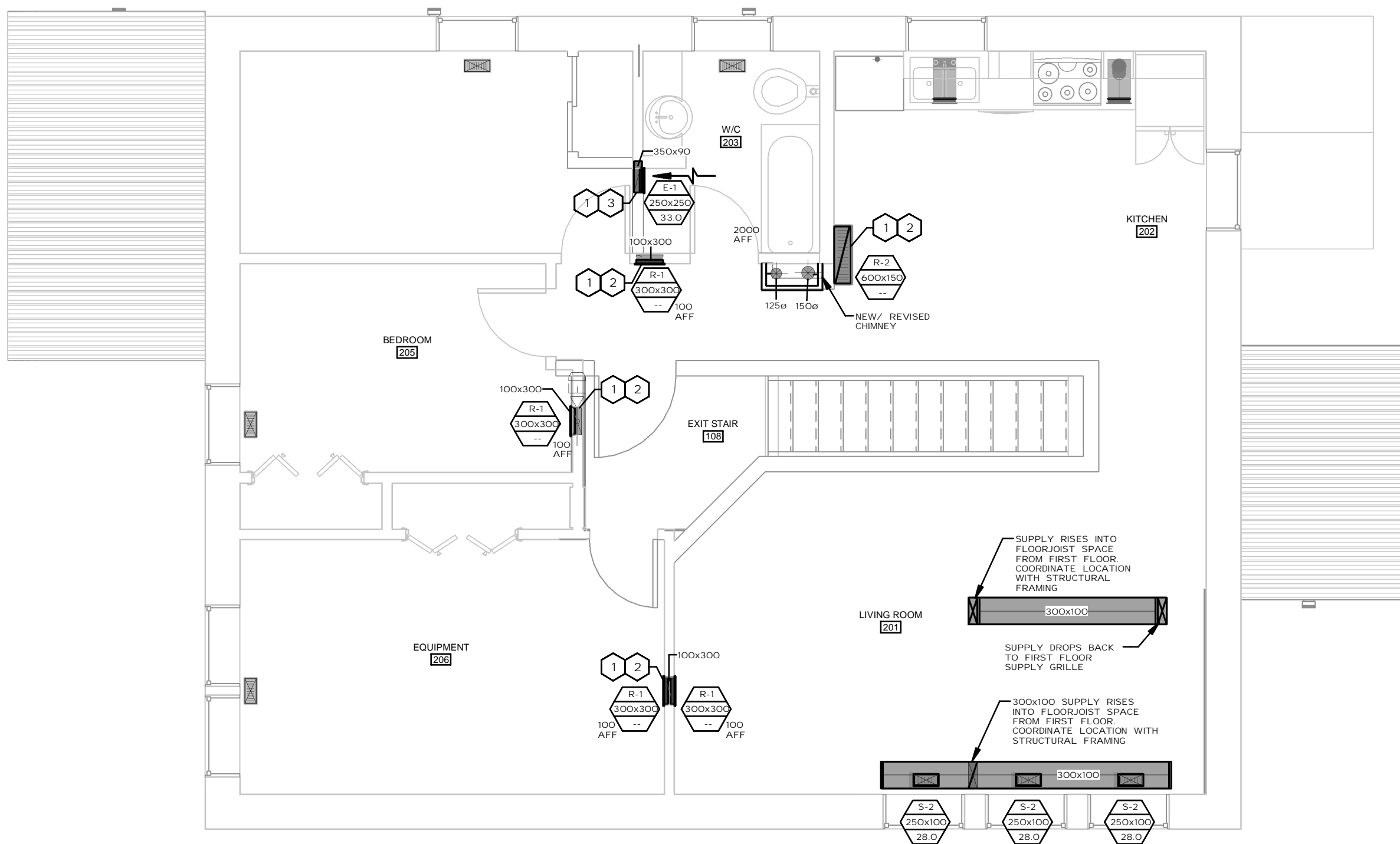
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DRAWING

**NEW SECOND FLOOR PLAN - HVAC**

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWER	<b>M202</b>
PPG	JBF	
PROJECT	20103	
SCALE	1 : 50	



KEYNOTES

- COORDINATE WITH ARCHITECTURAL FOR EXACT LOCATION OF WALLS AND PROPOSED GRILLES. DO NOT CROSS JOISTS IN CEILING SPACE. PROVIDE ALTERNATE PATHS FOR DUCTWORK TO AVOID CONFLICTS.
- RETURN GRILLES ARE DUCTED TO OPEN SPACE ON FIRST FLOOR.
- EXHAUST AIR DUCT TIES INTO DUCTED SYSTEM BELOW ON FIRST FLOOR.

**1 NEW SECOND FLOOR - HVAC**  
1 : 50



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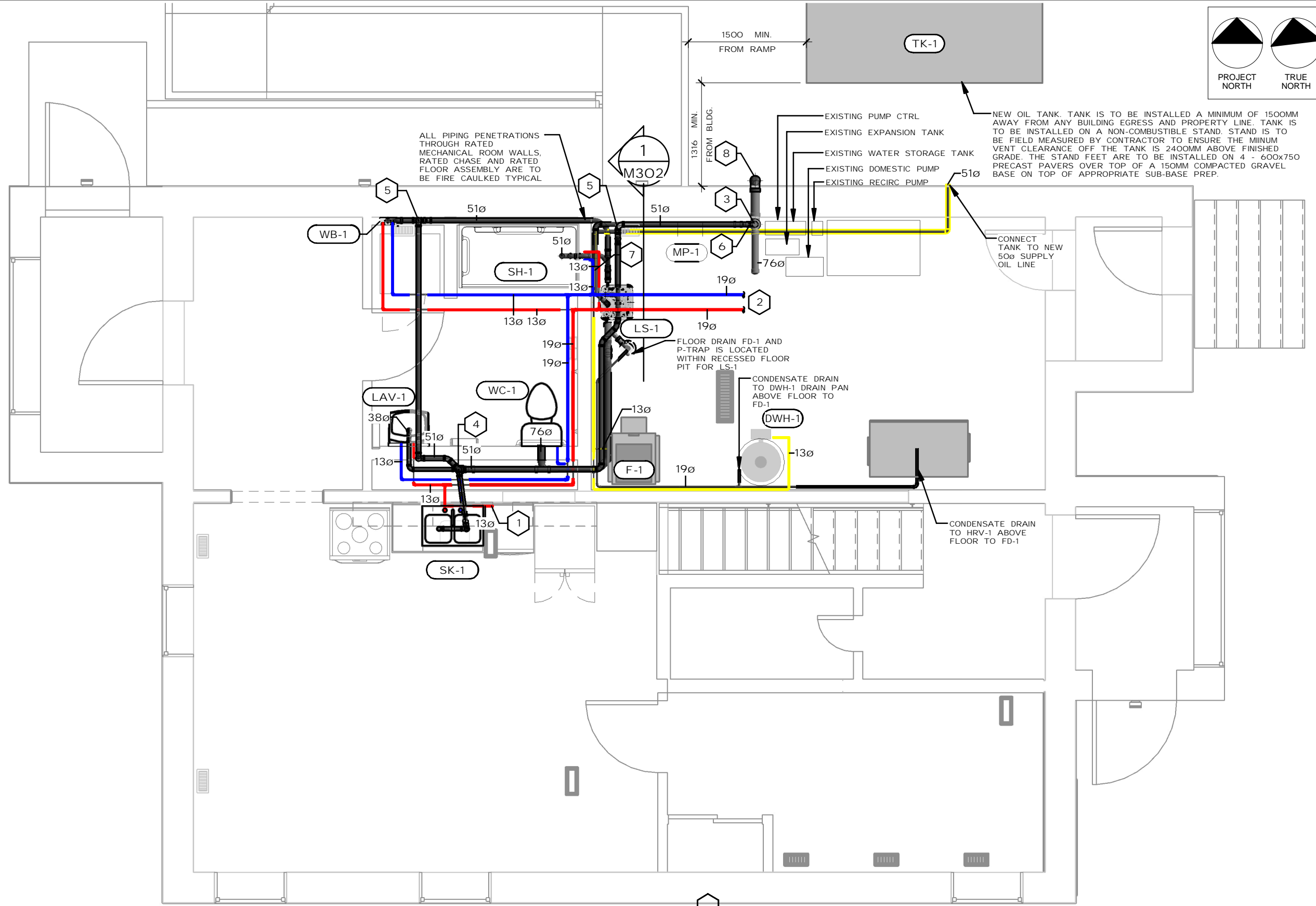
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**NEW GROUND FLOOR PLAN - DOMESTIC AND SANITARY**

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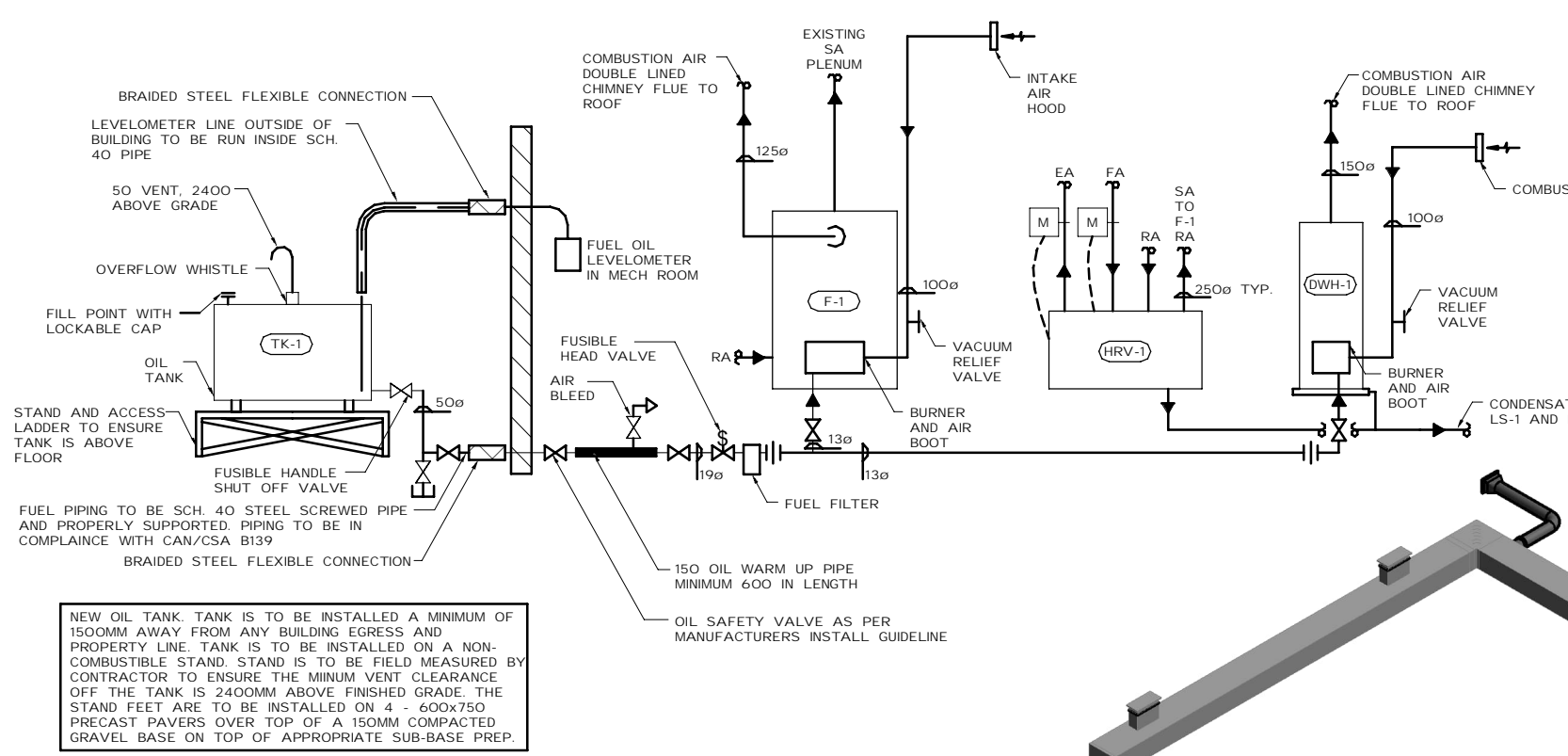
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PPG	JBF	
PROJECT	20103	
SCALE	As indicated	



**MECHANICAL PIPING LEGEND**

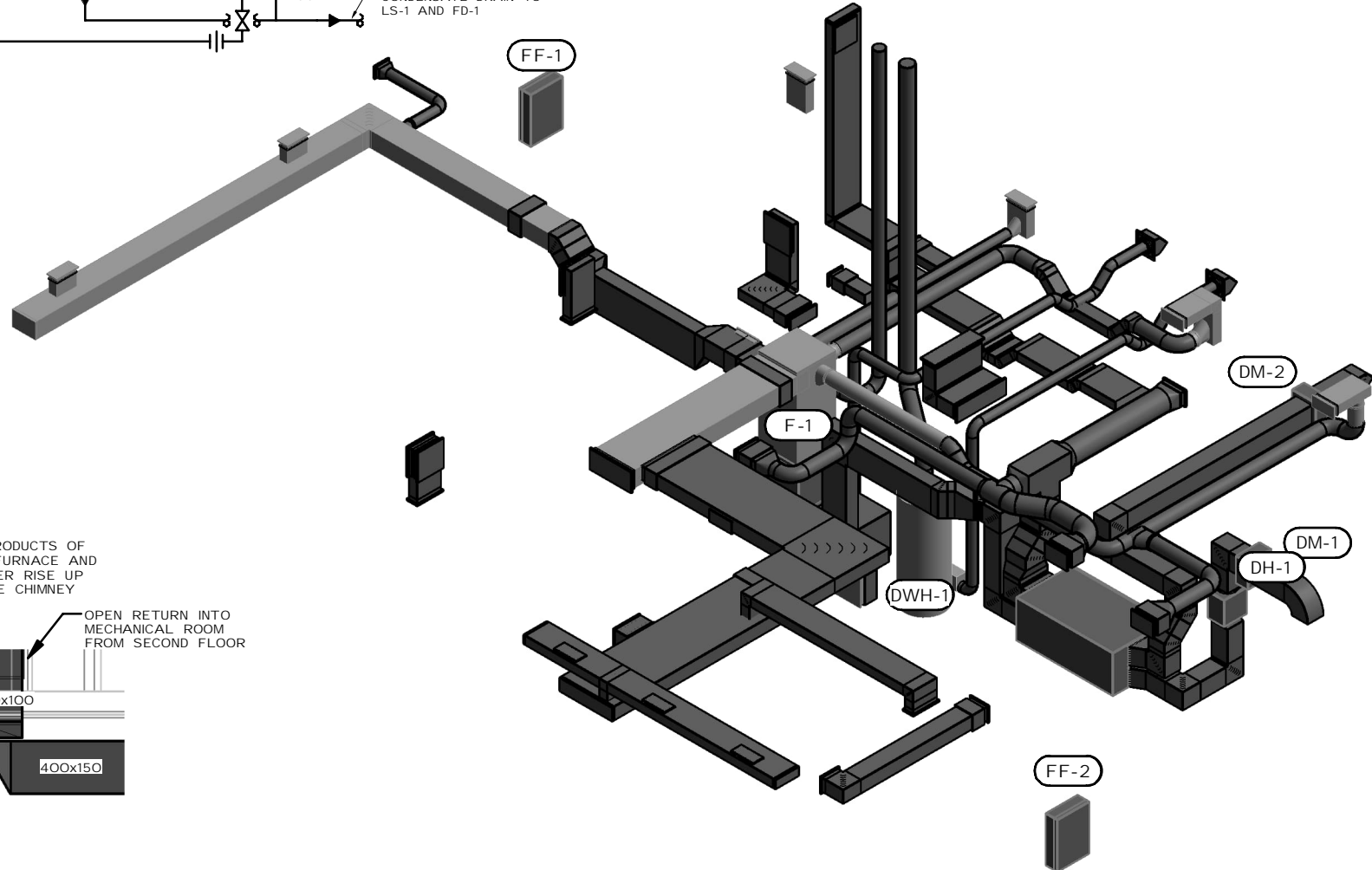
	FUEL OIL PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	SANITARY AND VENT PIPING

- KEYNOTES**
- 12ø DHW TAKE OFF C/W ISOLATION AND WATER HAMMER ARRESTOR TO DISHWASHER.
  - CONNECT NEW DOMESTIC HOT AND COLD TO EXISTING SYSTEM AND EXISTING HOT WATER HEATER.
  - EXISTING SANITARY CONNECTION THROUGH FLOOR FROM UPPER FLOOR.
  - VENT STACK RUNS BACK INTO MECHANICAL ROOM THROUGH CHASE AND TIES INTO LS-1 VENTING.
  - VENT RISES UP TO CEILING AND TIES INTO NEAREST STACK VENT.
  - LS-1 LIFT STATION DISCHARGE AND VENT PIPING TIES INTO EXISTING MAIN SANITARY STACK.
  - 50ø OIL LINE ENTERS MECHANICAL ROOM THROUGH WALL. INSTALL OIL WARMING, FUEL FILTER AND VALVES AS PER SCHEMATIC ON M301. CLOSE TO EXTERIOR WALL PRIOR TO SIZING DOWN TO 19ø AND SUPPLYING F-1 AND DWH-1 WITH 13ø CONNECTIONS.
  - NEW ELBOWS, UNIONS AND PIPE ARE TO BE INSTALLED TO REJOIN THE 100ø SANITARY, 25ø DOMESTIC AND 25ø RECIRC PIPING ON THE EXTERIOR OF THE BUILDING. ADDITIONAL LENGTH OF MATERIAL WILL REQUIRE HEAT TRACE. PIPING IS TO BE CONCEALED IN WEATHER PROOF INSULATED BOX, COORDINATED WITH ARCHITECTURAL.

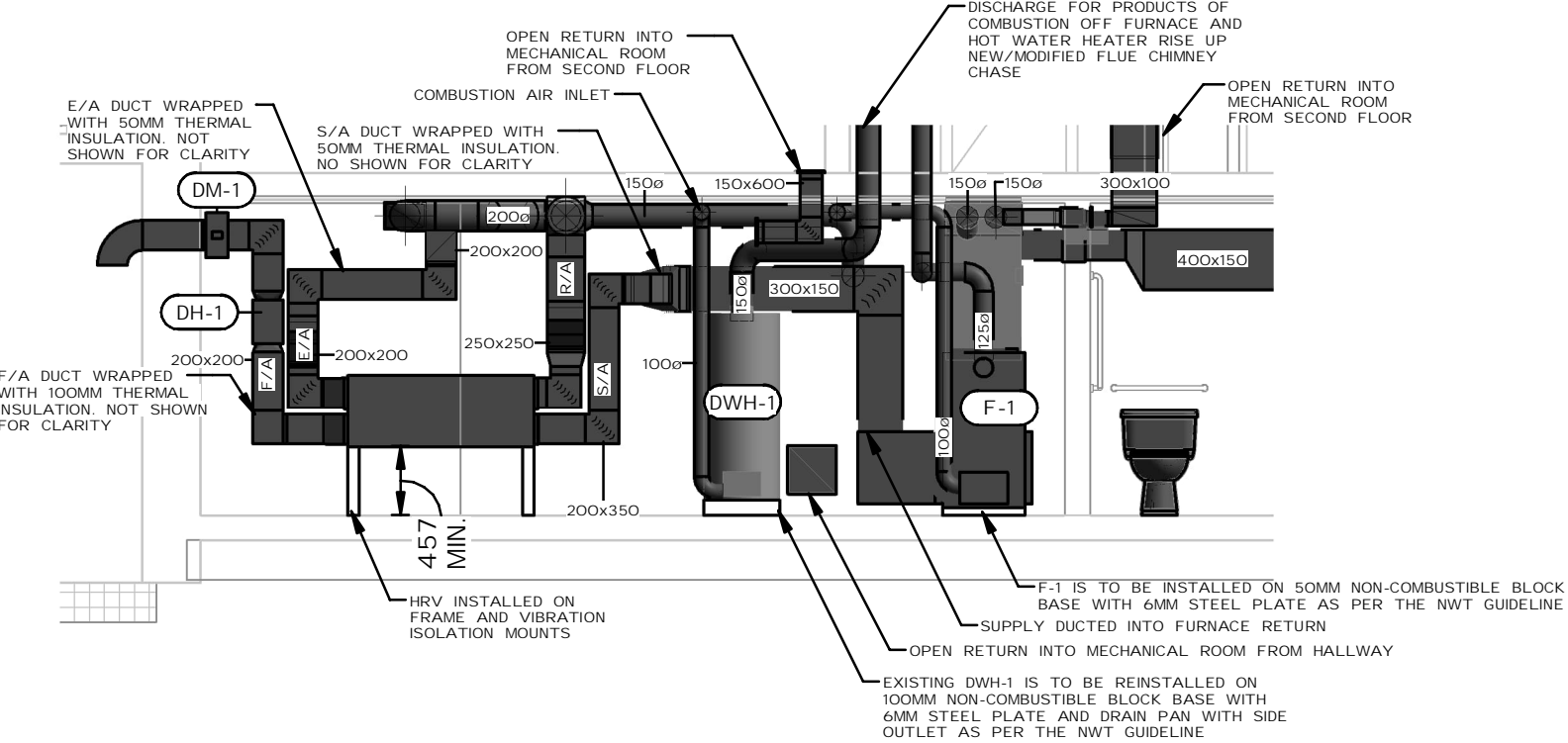


NEW OIL TANK. TANK IS TO BE INSTALLED A MINIMUM OF 1500MM AWAY FROM ANY BUILDING EGRESS AND PROPERTY LINE. TANK IS TO BE INSTALLED ON A NON-COMBUSTIBLE STAND. STAND IS TO BE FIELD MEASURED BY CONTRACTOR TO ENSURE THE MINUM VENT CLEARANCE OFF THE TANK IS 2400MM ABOVE FINISHED GRADE. THE STAND FEET ARE TO BE INSTALLED ON 4 - 600x750 PRECAST PAVERS OVER TOP OF A 150MM COMPACTED GRAVEL BASE ON TOP OF APPROPRIATE SUB-BASE PREP.

**1 MECHANICAL SCHEMATIC**  
N.T.S.



**2 HVAC ISOMETRIC**



**3 MECHANICAL ROOM ELEVATION**  
1 : 50



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**QANP OFFICE BUILDING RENOVATION**

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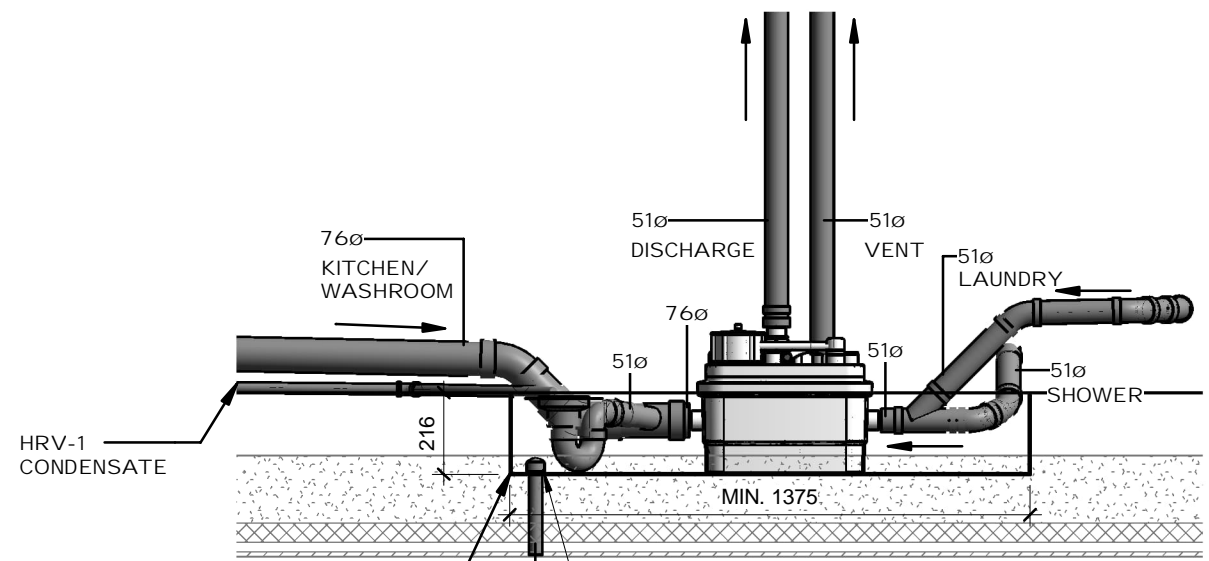
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**DETAILS AND SCHEMATICS**

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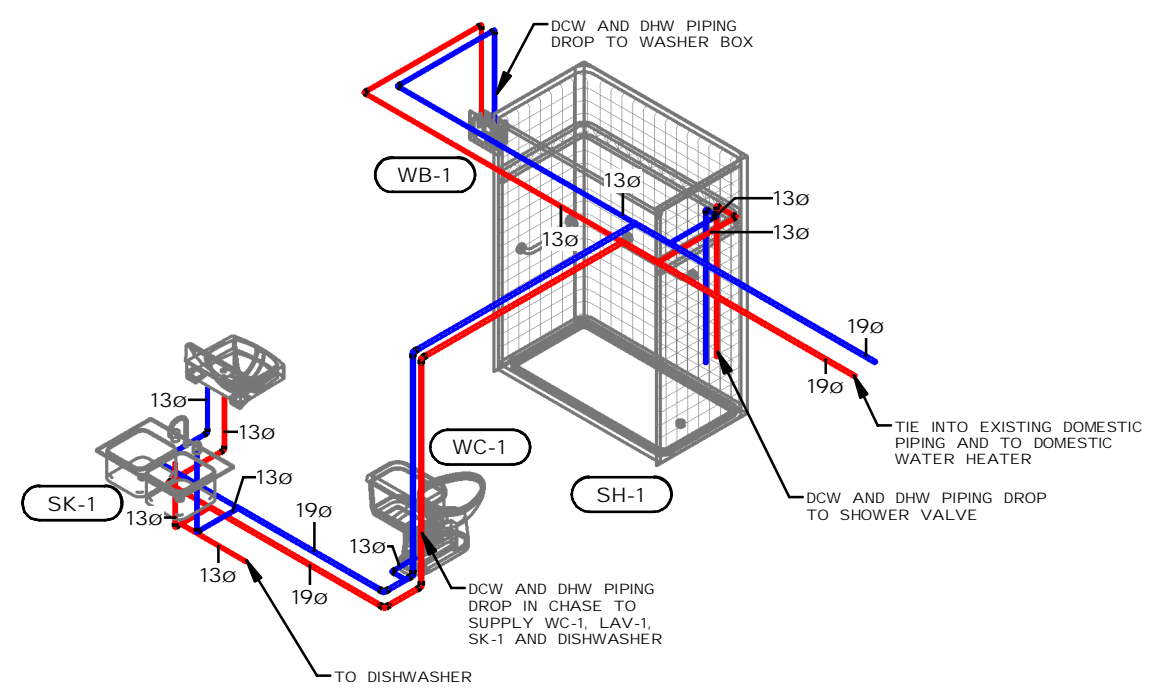
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PPG	JBF	
PROJECT	20103	
SCALE	As indicated	



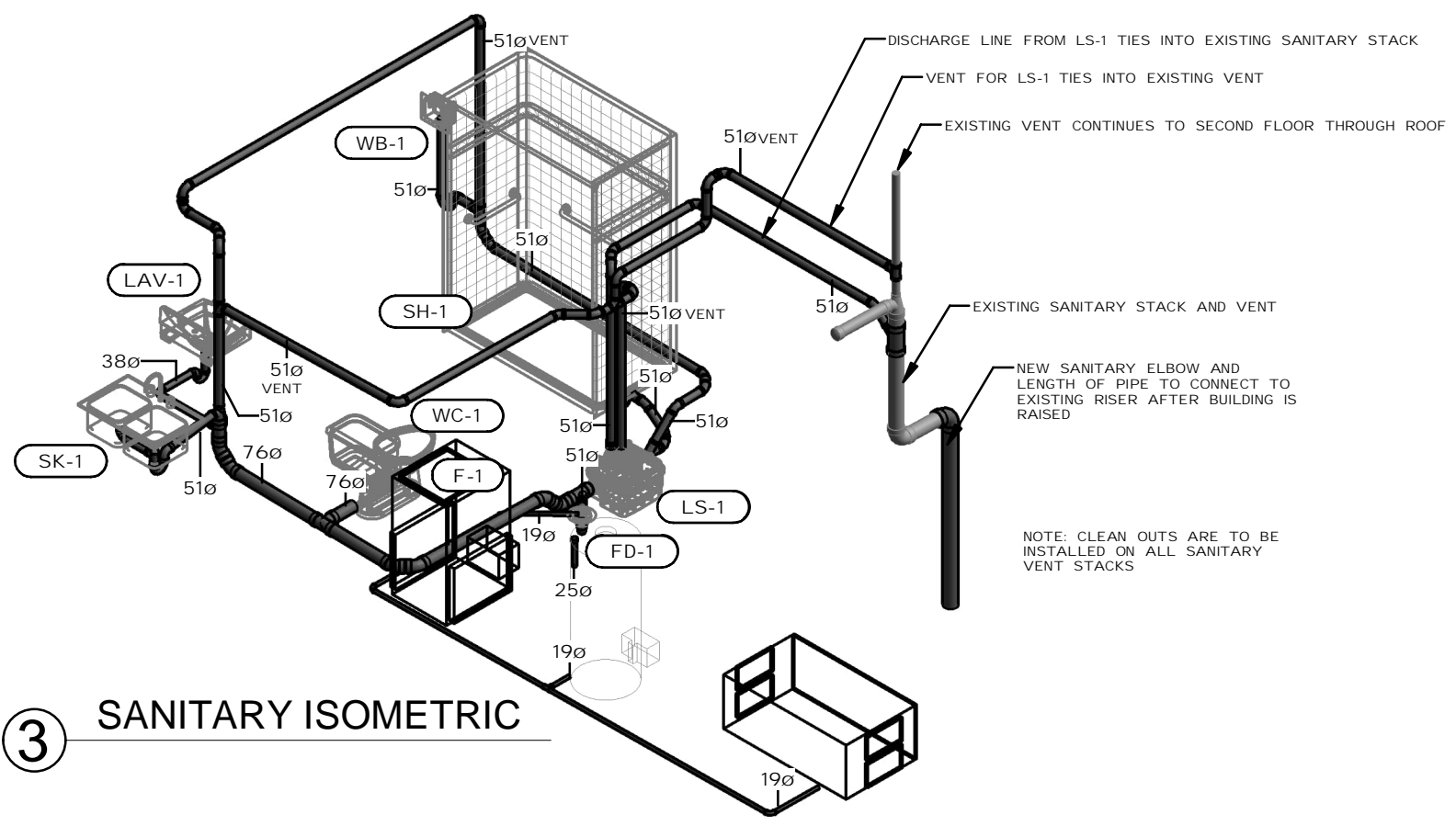


LIFT STATION IS TO BE RECESSED IN FLOOR SYSTEM WITH RECESSED PAN. THE BOTTOM OF THE PAN IS TO BE HEAT TRACED INSIDE AND HAVE A LOW LEAK ALARM IN THE BOTTOM.

**1** RECESSED LIFT STATION DETAIL  
1 : 20



**2** DOMESTIC ISOMETRIC



**3** SANITARY ISOMETRIC

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PROJECT	20103	
SCALE	1 : 20	



DIVISION 23.72.15 - HRV SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	BALANCED AIR FLOW L/S	ESP IN. W.C.	EFFICIENCY @ -25°C	ELECTRICAL			WEIGHT LBS	COMMENTS
							V	Ph	Hz		
HRV-1	HEAT RECOVERY VENTILATOR	LIFEBREATH	350DCS	130.0	0.1	92%	120	1	60	240	HORIZONTAL CONNECTION ARRANGEMENT TO SUIT FLOOR PLAN, INSTALLED ON FRAME AND VIBRATION ISOLATION ABOVE FLOOR TO ALLOW FOR CONDENSATE DRAINAGE, COMPLETE WITH DAMPERS ON FRESH AIR AND EXHAUST AIR INLET AND OUTLET, WIRED INTO FURNACE FAN CONTROL, INTEGRAL DEFROST CONTROLS, PROVIDE SPARE MOTOR FOR FUTURE REPLACEMENT

DIVISION 23.54.16 - FURNACE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	FUEL	BALANCED AIR FLOW L/S	ESP IN. W.C.	HEATING CAPACITY		HEATING TEMP RISE °C	OIL FLOW RATE (GPH)	AUFE	ELECTRICAL					COMMENTS
							INPUT BTU/H	OUTPUT BTH/H				VOLTAGE			MCA	MOC	
												V	Ph	Hz	MCA	MOC	
F-1	OIL FIRED FURNACE	CARRIER OR EQUIVALANT	OVMAAB060154-126-BNX	OIL	803.0	0.5	126000.00	107000.00	16 - 22	0.90	87%	120	1	60	18	20	1 HP ECM MOTOR, MEDIUM-HIGH BLOWER SPEED BECKETT NX BURNER, AIR BOOT VENT KIT AND VENTING, INSTALL ON 50 MM NON-COMBUSTIBLE BLOCK BASE WITH 6MM STEEL PLATE UNDERNEATH, HONEYWELL 8000 SERIES PROGRAMMABLE OCCUPANCY MODE THERMOSTAT, PROVIDE INTERPOSING RELAY TO OPERATE HRV AND INTAKE DAMPERS. PROVIDE SECONDARY RELAY CONTROL OPTION FOR 120V LIGHTING INPUT TO CONTROL OCCUPANCY

DIVISION 23.31.30 CONTROL DAMPER SCHEDULE

TAG	MANUFACTURER	MODEL	AIRFLOW (L/S)	DIMENSIONS	ACTUATOR		ELECTRICAL			QUANTITY	COMMENTS
					MANUFACTURER	MODEL	V	Ph	Hz		
DM-1	TAMCO	9000 SERIES	129.8	250x250	BELIMO	AFB-SERIES	120	1	60	1	2 POSITION ACTUATOR, HRV-1 OUTDOOR AIR CONTROL DAMPER, PROVIDE SPARE ACTUATOR IN THE EVENT OF A FAILURE
DM-2	TAMCO	9000 SERIES	129.8	250x250	BELIMO	AFB-SERIES	120	1	60	1	2 POSITION ACTUATOR, HRV-1 EXHAUST AIR CONTROL DAMPER, PROVIDE SPARE ACTUATOR IN THE EVENT OF A FAILURE

DIVISION 20.18.00B - TANK SCHEDULE

TAG	DESCRIPTION	TANK CAPACITY GALLONS	WORKING PRESSURE PSI	WORKING TEMPERATURE °C	DIMENSIONS		COMMENTS
					DIA.	HEIGHT	
TK-1	OIL STORAGE TANK	500.0	300	-50 TO 40	953	3048	INSTALLED OUTSIDE ALONG BUILDING. COMPLY WITH OFFICE OF FIRE MARSHALL AND GUIDELINES OF NWT COMMUNITIES. INSTALLED WITH MP-1 FUEL STORAGE MONITORING PANEL. TANK IS TO BE DOUBLE WALLED AND HAVE PROPER CONTAINMENT. TANK TO BE INSTALLED ON STAND WITH ACCESS LADDER AND CONFORM TO ULC S601. CONTRACTOR TO CONFIRM ELEVATION OF TANK IS A MINIMUM OF 150 ABOVE FINISHED FLOOR.

DIVISION 22.05.90 - DOMESTIC WATER HEATER SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	TANK CAPACITY LITRES	COMMENTS
DWH-1	EXISTING OIL FIRED DOMESTIC WATER HEATER	BRADFORD WHITE	CF-32-6	32.0	SUPPLY AND INSTALL NEW AIR BOOT KIT AND VENTING FOR EXISTING BECKETT BURNER. INSTALL ON 100 MM NON-COMBUSTIBLE BLOCK BASE WITH 6MM STEEL PLATE AND DRAIN PAN UNDERNEATH WITH SIDE DRAIN OUTLET CONNECTED TO CONDENSATE DRAIN FROM HRV TO LS-1 AND FD-1

DIVISION 23.09.10B FUEL TANK MONITORING PANEL

TAG	DESCRIPTION	MANUFACTURER	MODEL	LOCATION	ELECTRICAL			COMMENTS
					V	Ph	Hz	
MP-1	FUEL STORAGE TANK MONITORING PANEL	SIMPLEX	TC-8	MECHANICAL RM.	115	1	60	MONITOR HIGH LEVEL, LOW LEVEL AND TANK LEAK ALARMS, AUDIBLE ALARM HORN AND VISUAL ALARM, LEVEL SENSORS, PERCENTAGE DIGITAL FUEL LEVEL METER DISPLAY

DIVISION 23.37.10 - AIR TERMINAL SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	QUANTITY
--	EXISTING	EXISTING	EXISTING DIFFUSERS	13
E-1	PRICE	80 SERIES EGGCRATE FACE OR EQUIVALANT	EXHAUST AIR	5
R-1	PRICE	80 SERIES EGGCRATE FACE OR EQUIVALANT	RETURN AIR	9
R-2	PRICE	LPB SERIES BAR GRILLE OR EQUIVALANT	RETURN AIR	1
S-1	PRICE	520 SERIES DOUBLE DEFLECTION GRILLE OR EQUIVALANT	SUPPLY AIR	7
S-2	PRICE	LPB SERIES BAR GRILLE OR EQUIVALANT	SUPPLY AIR	4
T-1	PRICE	80 SERIES EGGCRATE FACE OR EQUIVALANT	TRANSFER AIR	2



80 SERIES EGGCRATE



520 SERIES DOUBLE DEFLECTION GRILLE



LPB SERIES LINEAR BAR GRILLE



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PROJECT

QANP OFFICE BUILDING RENOVATION

RESOLUTE, NUNAVUT

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PPG JBF

PROJECT

20103

SCALE

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DIVISION 22.42.00 AND 22.05.90 - PLUMBING FIXTURE AND SPECIALTIES SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS	QUANTITY
FD-1	FLOOR DRAIN	WATTS	FD-202NH	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE	1
LAV-1	WALL HUNG SINK	-	-	ADA COMPLIANT, WALL HUNG SINK COMPLETE WITH EQUIPMENT CARRIER, HARD-WIRED AC POWERED SENSOR-OPERATED FAUCET, THERMOSTATIC MIXING VALVE, COMPRESSION STOPS, COVER PLATES, SUPPLY TUBES AND ALL NECESSARY CONNECTIONS	1
LS-1	LIFT STATION	SFA	SANICUBIC 1	INSTALLED RECESSED INTO FLOOR SPACE WITH PAN, HEAT TRACE AND LEAK SENSOR IN PAN. PROVIDE A SPARE LIFT STATION IN THE EVENT OF A FAILURE	2
SH-1	SHOWER	-	-	SHOWER WITH GRAB BARS, 60"x32", CENTRE DRAIN, COMPLETE WITH SHOWER HEAD, FAUCET CONTROL AND MIXING VALVE, P-TRAP AND ALL NECESSARY CONNECTIONS	1
SK-1	DOUBLE BASIN SS SINK	-	-	DOUBLE BASIN, DROP IN, 18 GA 304 STAINLESS STEEL MULTI-HOLE DRILLING CONFIGURATIONS FOR DECK MOUNT FACUET HOLES, FAUCET 8" CENTERS, SWING SPOUT, 1.5 GPM FLOW CONTROL AERATOR	1
WB-1	LAUNDRY BOX	UPONOR, INC.	LF5930500	PROPEX WASHING MACHINE OUTLET BOX, 1/2" LF BRASS VALVES, TOP OR BOTTOM MOUNTABLE VALVES	1
WC-1	WALL MOUNTED WATER CLOSET	-	-	WALL MOUNTED WATER CLOSET, BACK DISCHARGE/ ROUGH-IN, RIGHT HEIGHT ELONGATED BOWL, FLUSH TANK, COMPLETE WITH WALL CARRIER AND ALL ASSOCIATED PIPING, FITTINGS AND ISOLATION, ADA COMPLIANT, SEAT-LESS LID	1

DIVISION 23.82.05 - FORCED FLOW HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	AIR FLOW	ELECTRICAL			WEIGHT	COMMENTS	
				KILOWATTS	VOLTAGE				
					V	Ph			Hz
FF-1	OUELLET	OAWH01500-TAV	75.5	1.5	240	2	60	24	SEMI RECESSED IN WALL C/W INTEGRAL THERMOSTAT
FF-2	OUELLET	OAWH01500-TAV	75.5	1.5	240	2	60	24	SEMI RECESSED IN WALL C/W INTEGRAL THERMOSTAT

DIVISION 23.82.05 - DUCT HEATER SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	MINIMUM AIR FLOW	KW	VOLTAGE	COMMENTS
DH-1	INLINE DUCT HEATER	THERMOLEC LTD.	THERMO-AIR TER-6-2240	28.3	2	240	INSTALLED ON HRV-1 INLET DUCTING IN MECHANICAL ROOM. INTERLOCKED WITH HRV-1, C/W INTEGRAL TEMPERATURE CONTROL AND MANUAL TEMPERATURE SETTING



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PROJECT  
**QANP OFFICE  
BUILDING  
RENOVATION**

RESOLUTE, NUNAVUT

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**SCHEDULES**

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PROJECT	20103	
SCALE		

**GENERAL SPECIFICATIONS**

THE ELECTRICAL CONTRACTOR SHALL:

- 1 MAKE NECESSARY PROVISIONS TO DELIVER A COMPLETE RENOVATION INSTALLATION IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE AND REGULATIONS CURRENT IN THE JURISDICTION.
- 2 NOTE THAT IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO PROVIDE FOR AN ELECTRICAL RENOVATION IN OPERATING CONDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND INSTALL ALL MATERIAL AND WORKMANSHIP TO ACCOMPLISH THIS ACCORDING TO THE CURRENT CANADIAN ELECTRICAL CODE, AND OTHER RELEVANT CODES, EXCEPT WHERE SPECIFICALLY STATED THAT SUCH WORK IS NOT INCLUDED.
- 3 LIAISE WITH LOCAL UTILITY AND ELECTRICAL INSPECTOR ON ACCEPTABLE LOCAL PRACTICES AND PREFERENCES
- 4 OBTAIN ELECTRICAL PERMITS AS REQUIRED BY THE RESPONSIBLE AUTHORITY HAVING JURISDICTION, AND PAY ALL APPLICABLE FEES.
- 5 FULFIL THE REQUIREMENTS HEREIN AS APPLICABLE TO THE PROJECT.
- 6 MAKE PROVISION, AND BEFORE ACCEPTING THE CONTRACT, MAKE SITE VISIT TO INSPECT AND CAREFULLY EXAMINE SITE CONDITIONS AND CORRELATE THE PROJECT DRAWINGS TO ENSURE FULL UNDERSTANDING OF THE WORK AND CONFIRM ALL REQUIREMENTS ARE COVERED; PROVIDE FOR THIS COST IN BID
- 7 BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL PRODUCE AND SUBMIT FOR APPROVAL, HIS OWN CONSTRUCTION INSTALLATION DRAWINGS DETAILED BEYOND THE DESIGN DRAWINGS, AND PROVIDE MANUFACTURERS' EQUIPMENT / DEVICE DATA SHEETS, VENDOR DRAWINGS, SPECIFICATIONS AND INSTALLATION DIAGRAMS; FAILURE TO DO THIS DOESNOT MINIMISE CONTRACTOR'S COMMITMENT TO FULFIL THE COMPLETE INSTALLATION REQUIREMENT.
- 8 IN SETTING OUT HIS WORK THE ELECTRICAL CONTRACTOR SHALL OBTAIN, REVIEW, AND MAKE REFERENCE TO NECESSARY ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS IN THE BID PACKAGE, AND SHALL CONSULT WITH OTHER TRADES TO AVOID CONFLICTS
- 9 THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH OTHER TRADES (E.G. FIRE SPRINKLER IF ANY) AND LIAISE WITH OWNER OR GENERAL CONTRACTOR ON SCHEDULING THE ELECTRICAL WORK TO MINIMIZE INTERRUPTION OF NORMAL FLOW OF WORK, AVOID DELAYS, AND REPEAT WORK
- 10 INSTALLATION OF EQUIPMENT, DEVICES AND MATERIALS SHALL BE NEW AND CSA – APPROVED AND ULC–LISTED
- 11 ENSURE THAT ONLY QUALIFIED ELECTRICAL WORKERS HAVING 5 YEARS EXPERIENCE SHALL WORK ON THE PROJECT
- 12 COMPLY WITH THE CURRENT CANADIAN ELECTRICAL CODE, STANDARD LOCK OUT TAG OUT PROCEDURE AND ELECTRICAL WORKPLACE SAFETY STANDARD CSA Z462; NO ENERGIZED WORK SHALL BE DONE ON THIS PROJECT.
- 13 CONTRACTOR SHALL BOND (6MM CU) ALL METALENCLOSURES TO SYSTEM GROUND AND ENSURE PROPER GROUNDING; ADD GROUND RODS AND ENHANCEMENTS TO MEET CODE REQUIREMENTS. GROUND MEASUREMENTS SHALL BE SUBMITTED FOR ENGINEER'S REVIEW.
- 14 CONTRACTOR SHALL RECTIFY INSTALLATION AT OWN EXPENSE IF NOT DONE AS PER CODE OR PREFERENCE OF AUTHORITY HAVING JURISDICTION; IF IN DOUBT ASK THE ENGINEER OR INSPECTION AHJ
- 15 COMPLETE AND SUBMIT RED–LINE DRAWINGS, AS WELL AS O&M BINDER WITH DATA SHEETS, ETC IN 4 COPIES – HARD AND SOFT (PDF) ON FLASH DRIVE.
- 16 IN THE COURSE OF THIS PROJECT, SHOULD ELECTRICAL DEVICES OR WIRES PENETRATE HORIZONTAL OR VERTICAL FIRE SEPARATION OR FIREWALL. CONTRACTOR SHALL PROVIDE FOR SUCH PENETRATION TO BE SEALED WITH A FIRE STOP SYSTEM THAT HAS FT RATING NOT LESS THAN THAT OF THE FIRE SEPARATION OR FIRE WALL.
- 17 CONTRACTOR SHALL INCLUDE IN HIS TENDER THE COST OF PROVIDING WARRANTY OBLIGATIONS AS PER THE TERMS OF THE MAIN CONTRACT.
- 18 DRAWINGS ARE NOT TO SCALE; CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS, USE PHYSICAL MEASUREMENTS AND EXERCISE JUDGEMENT IN PROPER MOUNTING OF DEVICES AND FIXTURES, IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE

**NOTES & INSTRUCTIONS 1**

1. THE ELECTRICAL WORK IN THIS BUILDING RENOVATION PROJECT SHALL BE DONE WITH THE REQUIREMENT TO DEMOLISH DEVICES AND EQUIPMENT AS MAY BE REQUIRED.
2. THE BID SHALL BE BASED ON NEW INSTALLATION OFFER, IN CONFORMANCE TO CSA STANDARD AND CANADIAN ELECTRICAL CODE WHERE AMENDMENT TO THE EXISTING ELECTRICAL INSTALLATION BECOMES NECESSARY,
3. IT SHALL BE CARRIED OUT IN COMPLIANCE WITH THE ELECTRICAL WORKPLACE SAFETY STANDARD CSA Z462. WORK ON THE ELECTRICAL INSTALLATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE CURRENT IN THE JURISDICTION.
4. NO ENERGIZED WORK SHALL BE CARRIED OUT ON THIS PROJECT
5. OTHER TRADES MAY BE PRESENT DURING THE RENOVATION PROJECT, AND ANY NECESSARY WARNINGS SHALL BE PLACED FOR THEIR SAFETY
6. CONTRACTOR SHALL MAKE PROVISION FOR COSTS, LABOUR, MATERIAL, FIXTURES, ACCESSORIES, ETC NEEDED TO COMPLETE THE ELECTRICAL WORK IN THE RENOVATION PROJECT.
7. CONTRACTOR SHALL OBTAIN AVAILABLE REFERENCE DRAWINGS AND PROJECT DRAWINGS – ARCHITECTURAL, MECHANICAL AND STRUCTURAL, REVIEW AND UNDERSTAND THE REQUIREMENTS OF THIS PROJECT
8. REFER TO ARCHITECTURAL WALL/ INSULATION AND CEILING DETAILS.
9. BEFORE COMMENCEMENT, CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE EXISTING INSTALLATION, AND USE THE EXISTING AS–BUILT DIAGRAMS IN THE DRAWING SET AND / OR ARCHITECT'S RECORD PHOTOGRAPHS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING LIGHTING AND POWER PANELS, DEVICES, EQUIPMENT, CONDUIT BOXES, RECEPTACLES, AND ESPECIALLY EXISTING LIGHTING FIXTURES.
10. BEFORE COMMENCEMENT, ENERGIZED ELECTRICAL CIRCUITS IN THE WORK AREA SHALL BE ISOLATED, AND LOCK OUT TAG OUT PROCEDURE SHALL BE COMPLIED WITH.
11. CONTRACTOR SHALL LIAISE WITH OWNER AND USERS OF OTHER PARTS OF THE BUILDING NOT AFFECTED BY THIS RENOVATION WORK, TO ENSURE MINIMUM INTERRUPTION TO THEIR OPERATION.
12. EXISTING WIRING WILL BE REPLACED WITH NEW AC90
13. ETHERNET CABLE SHALL BE FT–4 RATED IN COMBUSTIBLE CONSTRUCTION EXCEPT WHEN RUN IN PLENUM THEN IT SHALL BE FT–6 RATED OR RUN IN RATED CONDUIT IN PLENUM

**14 SCOPE OF WORK:**

- 14.1 DEMOLISH EXISTING ELECTRICAL INSTALLATION ACCORDING TO ARCHITECTURAL PLAN, ELECTRICAL DRAWINGS AND BUILDERS WORK.
- 14.2 PROVIDE AND INSTALL NEW 200A 240/120V 1–PH 3–W ELECTRICAL SERVICE. PROVIDE AND INSTALL NEW 200A 240/120V 80 CIRCUITS PANELBOARD 'PS/PG' IN THE SERVICE ROOM. SUBFEED AS SHOWN ON THE SCHEMATIC.
- 14.3 THE SUB–PANEL 'S' FEEDS FROM PANEL 'PS' HAS MAIN BREAKER 2–POLE 60A FOR ENSUITE POWER CONTROL, MAINTENANCE, AND SAFETY.
- 14.4 THE SUB–PANEL 'S' NEUTRAL – GROUND BOND LINK / SCREW SHALL BE REMOVED.
- 14.5 BRANCH CIRCUIT CABLING FROM THE PANELBOARD SHALL BE COPPER RW90 NMD90 IN WOOD STUD OR AC90 IN STEEL STUD CONSTRUCTION AND IN T–BAR CEILINGS AND PLACES OF POTENTIAL MECHANICAL INJURY
- 14.6 PANELBOARD 'S' IN THE MAIN FLOOR LIVING RM SHALL BE FLUSH–MOUNT INSTALLED COMPLETE WITH DOOR AND LOCKSET AND EQUIPPED WITH LOAD AND SPARE CIRCUIT BREAKERS AS IN THE PANEL SCHEDULE.
- 14.7 THE PANELBOARDS SHALL HAVE PUSH–IN BREAKERS AND BE COMMERCIAL SPEC GRADE SQUARE – D NQOD TYPE, OR APPROVED EQUAL
- 14.8 PROVIDE NEW BRANCH CIRCUIT WIRING TO THE NEW RENOVATION AREA, BAND TRANSFER SOME EXISTING MAJOR EQUIPMENT CIRCUITS SUCH AS THE SERVICE EQUIPMENT AS PER INSTRUCTION.
- 14.9 PROVIDE NEW LED LIGHTING FIXTURES.
- 14.10 PROVIDE NEW PICTOGRAM 'GREENMAN RUNNING' EXIT SIGNS, AND EMERGENCY LIGHTS WITH LED LAMPS AS REQUIRED.
- 14.11 PROVIDE POWER RECEPTACLES AS SHOWN AT 450MM ABOVE FINISHED FLOOR IN THE OFFICES AND OTHER AREAS, UNLESS OTHERWISE REQUIRED OR SPECIFIED FOR KITCHEN APPLIANCES OR ELSEWHERE.
- 14.12 PROVIDE FOR EXTERIOR WEATHER PROOF RECEPTACLES WITH HEAVY DUTY COVER.
- 14.13 PROVIDE AND INSTALL COMMUNICATION SERVICE WEATHERHEAD AND EXTERIOR COMMUNICATION DEMARCATION JUNCTION BOX C/W COMMUNICATION BACKBOARD IN SERVICE ROOM..
- 14.14 PROVIDE AND INSTALL COMMUNICATION CABLING BETWEEN COMM. BACKBOARD AND EQUIPMENT ROOM 206. PROVIDE AND INSTALL CAT–6 PATCH PANEL IN EQUIPMENT ROOM. FROM THE PATCH PANEL CAT–6 ETHERNET VOICE / DATA CABLES IN CONDUIT WITH DROPS AT EACH 2–PORT OUTLETS; WITH 2 CAT–6 ETHERNET CABLE VOICE/DATA DROPS TO EACH 2–PORT OUTLET. SEE DRAWINGS. DATAPORTS SHALL BE MOUNTED AT 450MM ABOVE FINISHED FLOOR.
- 14.15 THE COMMUNICATION BACKBOARD SHALL ALSO RECEIVE CABLE TV SERVICE INTO THE BUILDING, WITH CO–AXIAL CABLE IN CONDUIT RUN TO THE RESIDENTIAL LIVING ROOMS.
- 14.16 PROVIDE 120V HARD–WIRED SMOKE / CARBON MONOXIDE ALARM WITHIN EACH BEDROOM/SUITE.
- 14.17 PROVIDE HEAT AND CARBON MONOXIDE ALARM 120V HARD–WIRED IN THE UTILITY ROOM
- 14.18 PROVIDE HARD–WIRED RELAY MODULE ALL INTERCONNECTED WITH EXTERIOR HORN–STROBE MOUNTED ABOVE THE DOOR OF THE UTILITY ROOM; FOR SIGNALING ANY FIRE EVENT DETECTED BY THE UTILITY HEAT OR CO ALARM
15. MINIMUM CONDUIT IN THIS INSTALLATION SHALL BE 19MM DIAMETER; WRAP CONDUIT BOXES WITH FILM SHEET PROVIDING MINIMUM 300 MM PERIMETER LAP FLANGE INSTALL OUTLET GASKETS ON ALL OUTLETS PRIOR TO THE INSTALLATION OF OUTLET FACEPLATES.
16. CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS, PLAN REVIEW AND PAY NECESSARY FEES.
17. PROVIDE FOR ELECTRICAL WORKER PROTECTION IN THE COURSE OF DEMOLITION WORK WHERE HAZARDOUS MATERIAL MAY BE PRESENT, ASK AND OBTAIN COPY OF THE HAZARDOUS MATERIAL SURVEYOR'S REPORT
18. CONTRACTOR SHALL WATCH OUT IN PARTICULAR FOR HAZARDOUS MATERIAL THAT MAY BE CONTAINED IN THE INSULATION AND SHEATH MATERIAL OF CABLES AND CONDUCTORS; FOLLOW HAZARDOUS MATERIAL SURVEYORS RECOMMENDATION FOR PROPER PROTECTION AND HANDLING
19. CAUTION AND CARE MUST BE EXERCISED IN HANDLING AND DISPOSING OF EQUIPMENT WITH BATTERY SUCH AS OLD EMERGENCY LIGHTPACK WHICH MAY CONTAIN LEAD AND ACID, AS WELL AS FLUORESCENT LAMPS WHICH MAY CONTAIN MERCURY, AND BALLASTS WHICH MAY CONTAIN PCB.
20. UPON COMPLETION, ALL DEMOLISHED FIXTURES AND WASTE MATERIAL SHALL BE REMOVED AND DISPOSED WITH OWNERS AUTHORIZATION, ACCORDING TO ENVIRONMENTAL REGULATION IN THE JURISDICTION
21. REFER TO HAZARDOUS MATERIALS BACKGROUND INFORMATION HEALTH EFFECTS INFORMATION AND REGULATORY FRAMEWORK FEB. 26, 2016 OR CURRENT VERSION; NWT GUIDELINES FOR INDUSTRIAL WASTE DISCHARGE CURRENT VERSION; FEDERAL TRANSPORTATION OF DANGEROUS GOODS REGULATION, CURRENT; CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) 2008 OR CURRENT VERSION
22. THE CONTRACTOR, NOT THE ENGINEER, SHALL BE RESPONSIBLE FOR ANY VARIANCE FROM FINAL CONSTRUCTION DRAWINGS AND SPECIFICATIONS, OR ADJUSTMENTS REQUIRED RESULTING FROM CONDITIONS ENCOUNTERED ON THE JOB SITE, BUT CONTRACTOR MAY SUBMIT ANY NEEDED CHANGE REQUEST PRIOR TO THE WORK CONCERNED.
23. CARRY OUT AND SUBMIT ELECTRICAL TEST RESULTS ON FULL LOAD WITH DATE AND TIME: – VOLTAGE, CURRENT, GROUND RESISTANCE TEST; AS WELL AS GFI AND REGULAR RECEPTACLES GROUNDING TEST.



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ARCHITECTURE INTERIORS ENGINEERING



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PROJECT  
**QANP OFFICE BUILDING RENOVATION**

RESOLUTE, NUNAVUT

No.	DATE	ISSUED FOR
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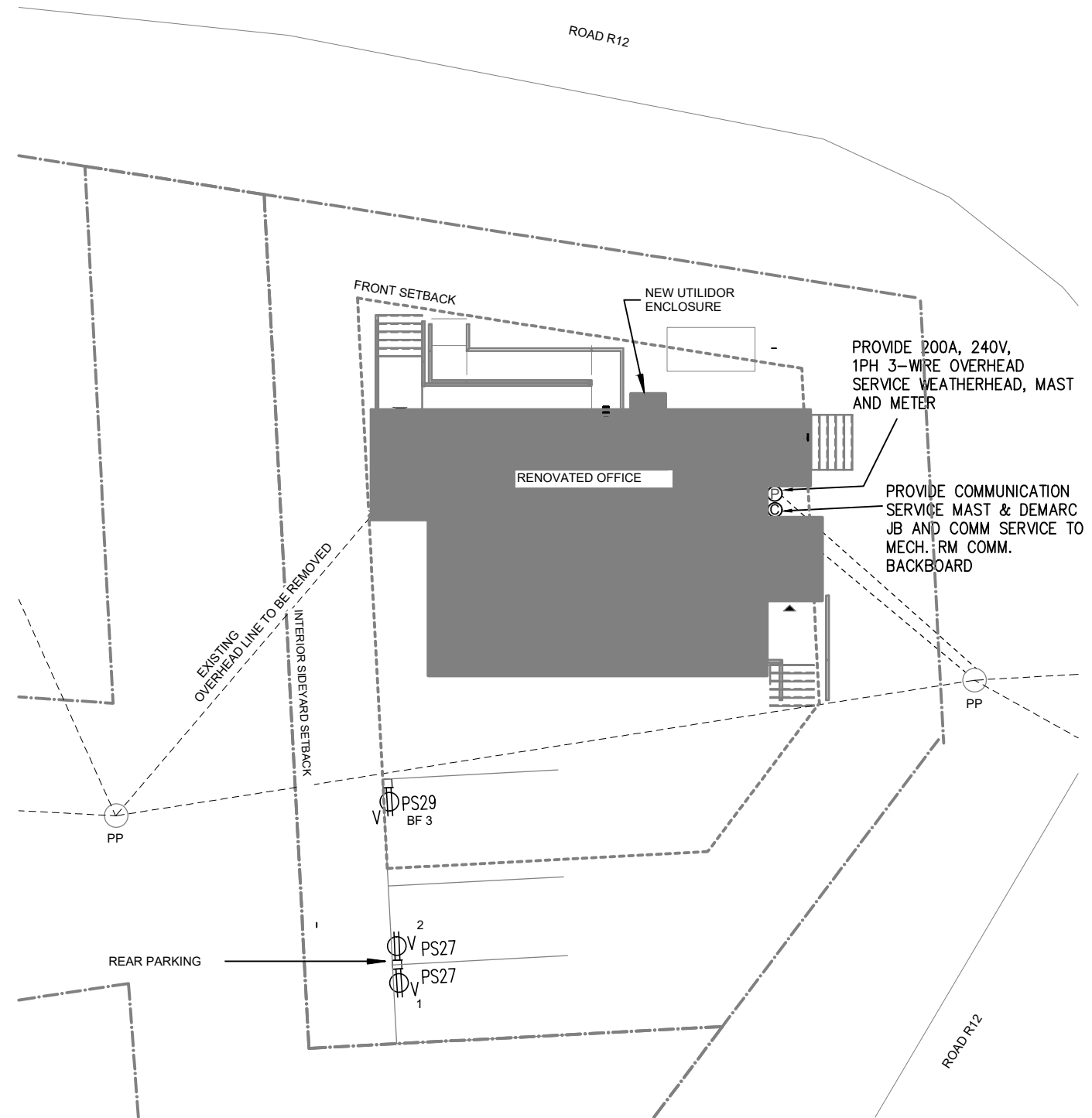
DRAWING  
**SPECIFICATIONS NOTES & INSTRUCTIONS**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
PROJECT 20103	<b>E100</b>
SCALE NTS	



LEGEND	
	LIGHT CONTROL SWITCH
	DIMMING LIGHTING CONTROL SWITCH
	THREE WAY LIGHTING CONTROL SWITCH
	LIGHT SWITCH WITH OCCUPANCY SENSOR
	WALL MOUNTED DUPLEX RECEPTACLE.
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE.
	20A T-SLOT GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE.
	OUTDOOR WEATHERTIGHT SERVICE RECEPTACLE WITH IN-USE HEAVY DUTY COVER
	VEHICLE WEATHERPROOF IPLC DUPLEX RECEPTACLE, 120V, 15A, COMPLETE WITH EXTRA-DUTY IN-USE COVER
	SPECIAL RECEPTACLE ON DEDICATED CIRCUIT
	2-PORT ETHERNET CAT-6 OUTLET DATA / VOICE WITH CABLE TO PATCH PANEL IN EQUIPMENT ROOM
	COAXIAL TELEVISION CABLE JACK
	SMOKE/CARBON MONOXIDE COMBO ALARM 120V HARD-WIRED C/W SHALL HAVE 10 YEARS LITHIUM BATTERY BACK UP.
	HEAT, CARBON MONOXIDE ALARMS 120V HARD-WIRED
	EXTERIOR WEATHERPROOF 120V HORN-STROBE ON UTILITY ROOM ALARMS
	BUZZER
	DOOR BELL
	1.2M (4') X 0.194M (7-5/8") LED FIXTURE 120V 28W ; SURFACE-MOUNT ON STEEL BAR OR GYROCK CEILING ; COOPER METALUX WNLED : 4-WNLED-LD4-28SL-F-UNV
	CUTOFF LED WALL-MOUNT LUMINAIRE DIE-ALUMINUM WEATHERPROOF HOUSING AND INTEGRAL PHOTOCCELL, DARK SKY COMPLIANT, 3500K, 3532 LUMENS. 50W,120V; COOPER LIGHTING: XTOR5A-N.PC1;
	DIMMABLE LED LIGHT COOPER HALO 2700K, 1500 LUMENS, 6" SURFACE MOUNTED FOR RATED CEILING
	STRIP LED LUMINAIRE UNDERCABINET DALI 6024, 2FT MODULE; OR EQUAL
	W/C VALENCE LED FIXTURE
	SERVICE GENERATOR PANELBOARD 200A, 240/120V 1-PH 3-WIRE 80-CCT WITH LOCKSET 20" WIDE, SURFACE-MOUNT
	200A 240/120V 1PH 3W OVERHEAD SERVICE EXTERIOR WEATHERHEAD RIGID STEEL MAST AND SERVICE METER ON EXTERIOR WALL
	OVERHEAD COMMUNICATION WEATHERHEAD AND WALL-MOUNT RIGID STEEL SERVICE ENTRANCE AND EXTERIOR COMM DEMARCATION JUNCTION BOX.
	COMMUNICATION BACKBOARD



**SITE PLAN - ELECTRICAL LAYOUT**  
1:200



PROJECT NORTH TRUE NORTH

**NOTES**

1. CONTRACTOR SHALL CONFIRM ACTUAL LOCATION OF EXISTING POWER POLE WITH THE UTILITY CO. AND INSPECTOR.
2. CONTRACTOR SHALL ENSURE COMPLIANCE WITH OVERHEAD CONDUCTOR CODE CLEARANCES ACROSS VEHICULAR TRAFFIC, PEDESTRIAN TRAFFIC
3. CONTRACTOR SHALL LIAISE WITH TELCO AND ARRANGE FOR TELEPHONE AND NEAREST POLE / CABINET.
4. CONTRACTOR TO REMOVE EXISTING SERVICES AND DISTRIBUTION PANELS AND INSTALL NEW AS PER E200 AND E300 SCHEMATIC DETAILS.



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DRAWING

**LEGEND ELECTRICAL SIT PLAN**

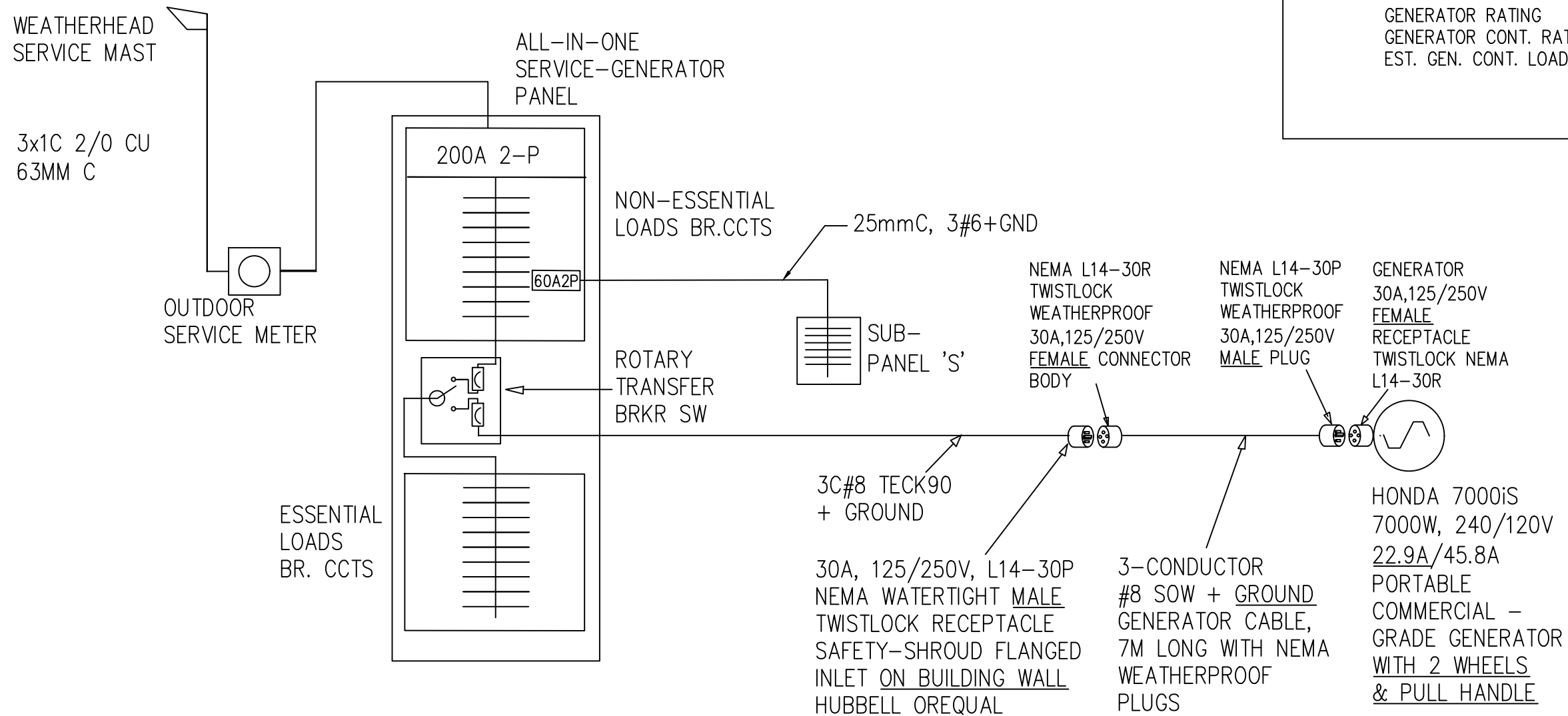
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DESIGN FS	DRAWN MC
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PROJECT 20103	<b>E200</b>
SCALE AS NOTED	



NEW 200A 240V 1-PH 3-W  
SERVICE AND DISTRIBUTION



ESSENTIAL LOADS ESTIMATES

1. MECH HVAC	2,000W
2. MECH PUMPS	500W
2. LIGHTING	
LED POT 7Wx33	231W
LED 1x4 32.3Wx4	130W
3. COMPUTERS & OFFICE MCs 8x120W	960W
4. SUB-TOTAL	3821W
4. CONTINGENCY	252W
TOTAL	4,073W

GENERATOR RATING 7,000W  
GENERATOR CONT. RATING 5,500W  
EST. GEN. CONT. LOADING 78.5%



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**QANP OFFICE  
BUILDING  
RENOVATION**

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DRAWING

SERVICE-GENERATOR  
DISTRIBUTION  
SCHEMATIC

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWN
FS	MC

PROJECT	<b>E300</b>
20103	
SCALE	
NTS	



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PROJECT  
**QANP OFFICE BUILDING RENOVATION**

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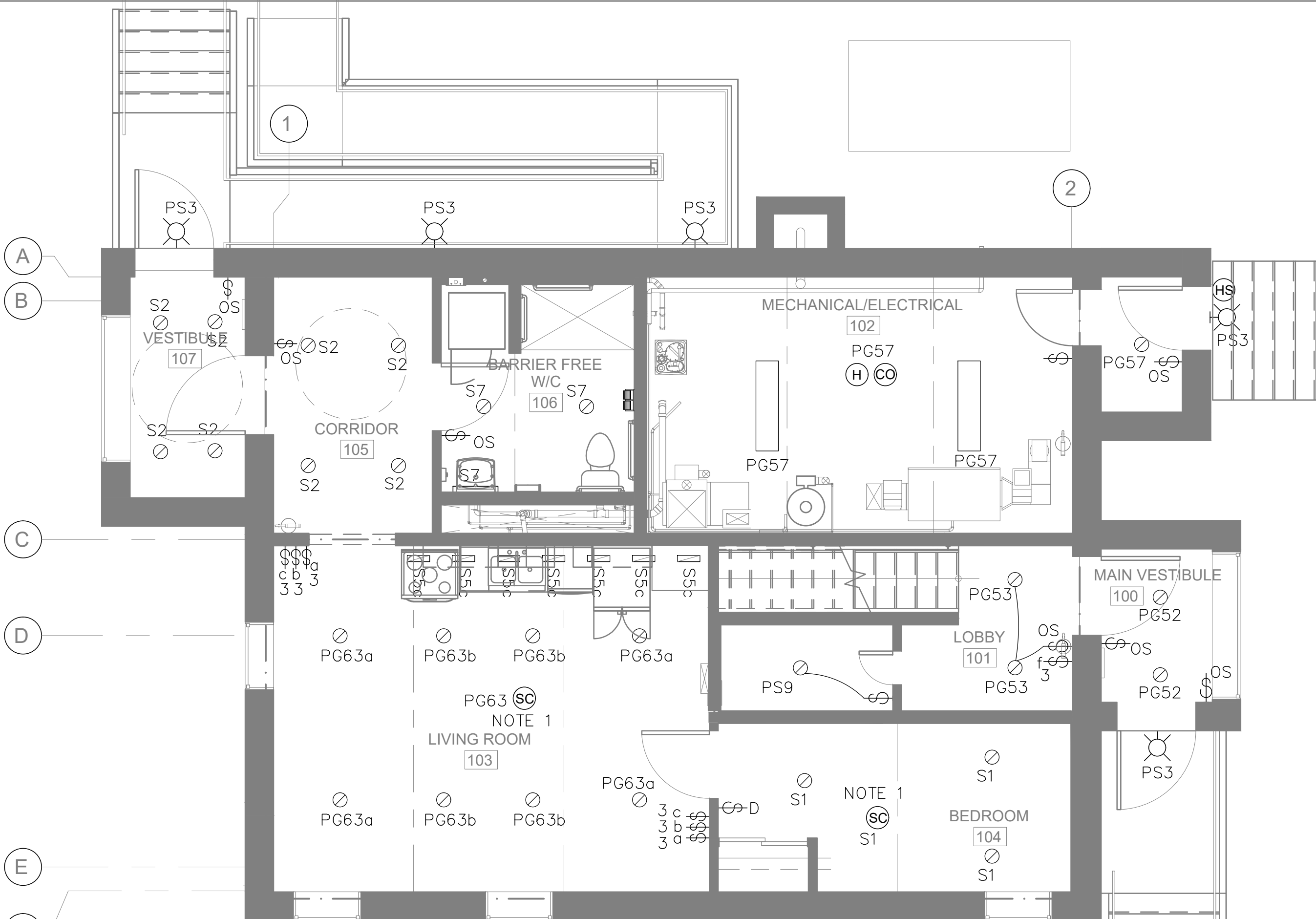
DD/MM/YY  
DRAWING

**MAIN FLOOR PLAN LIGHTING LAYOUT**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
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PROJECT 20103	<b>E400</b>
SCALE 1:50	



NOTES:

1. NEW SMOKE/CARBON MONOXIDE COMBO ALARM 120V HARD-WIRED. CONNECT TO AREA LIGHTING CIRCUITRY. INTERCONNECT ALL SUITE ALARM DEVICES, ENSURE THAT ALL ALARM DEVICES SHALL SOUND BASES ON ONE DEVICE SOUND AT THE SAME UNIT.(TYP)



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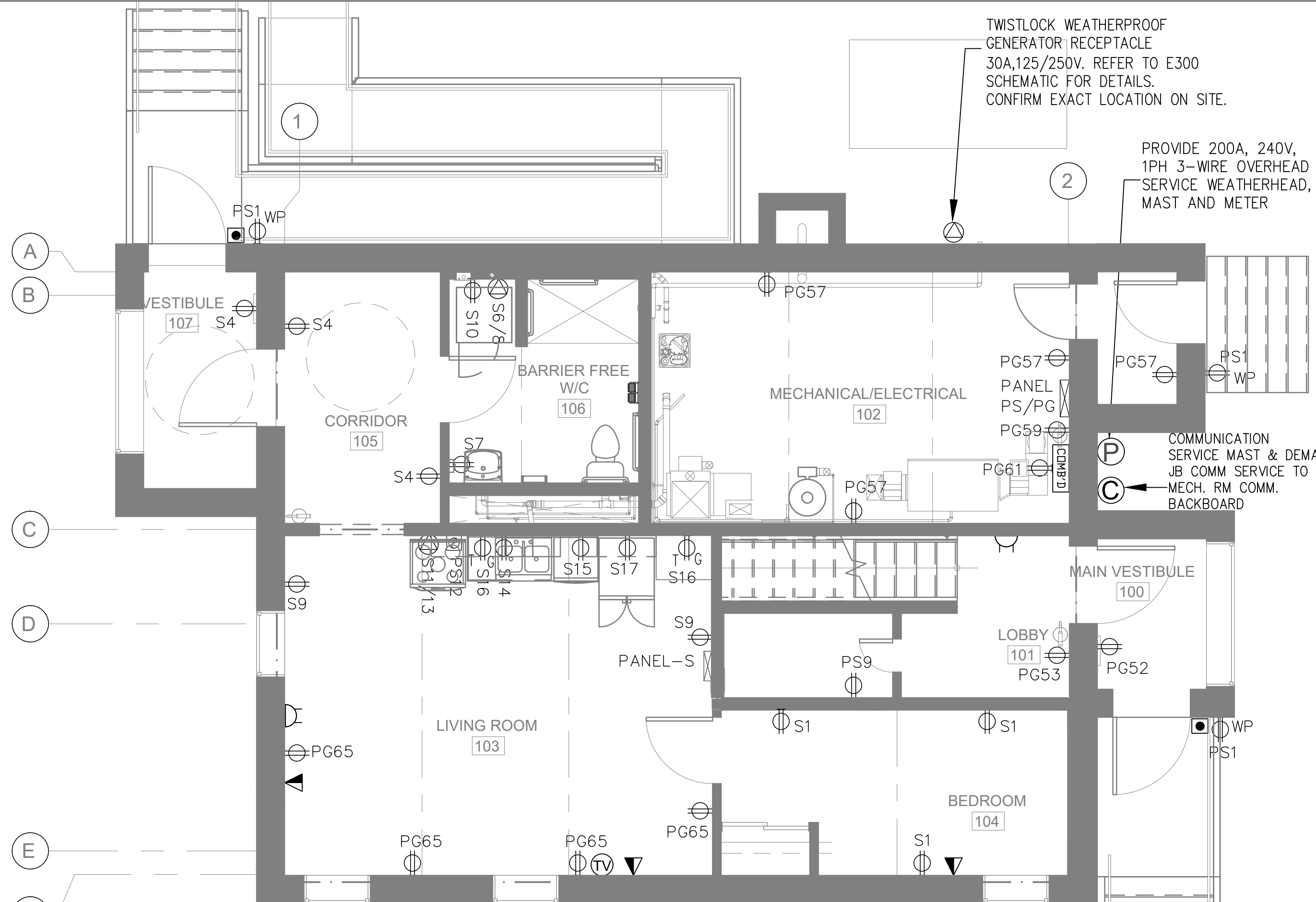
DD/MM/YY  
DRAWING

**MAIN FLOOR PLAN  
ELECTRICAL LAYOUT**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
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PROJECT 20103	<b>E401</b>
SCALE 1:50	



TWISTLOCK WEATHERPROOF  
GENERATOR RECEPTACLE  
30A,125/250V. REFER TO E300  
SCHEMATIC FOR DETAILS.  
CONFIRM EXACT LOCATION ON SITE.

PROVIDE 200A, 240V,  
1PH 3-WIRE OVERHEAD  
SERVICE WEATHERHEAD,  
MAST AND METER

(P) COMMUNICATION  
SERVICE MAST & DEMARC  
JB COMM SERVICE TO  
(C) MECH. RM COMM.  
BACKBOARD

**NOTES**

1. CONTRACTOR TO REMOVE EXISTING SERVICES AND DISTRIBUTION PANELS AND INSTALL NEW AS PER E200 AND E300 SCHEMATIC DETAILS.





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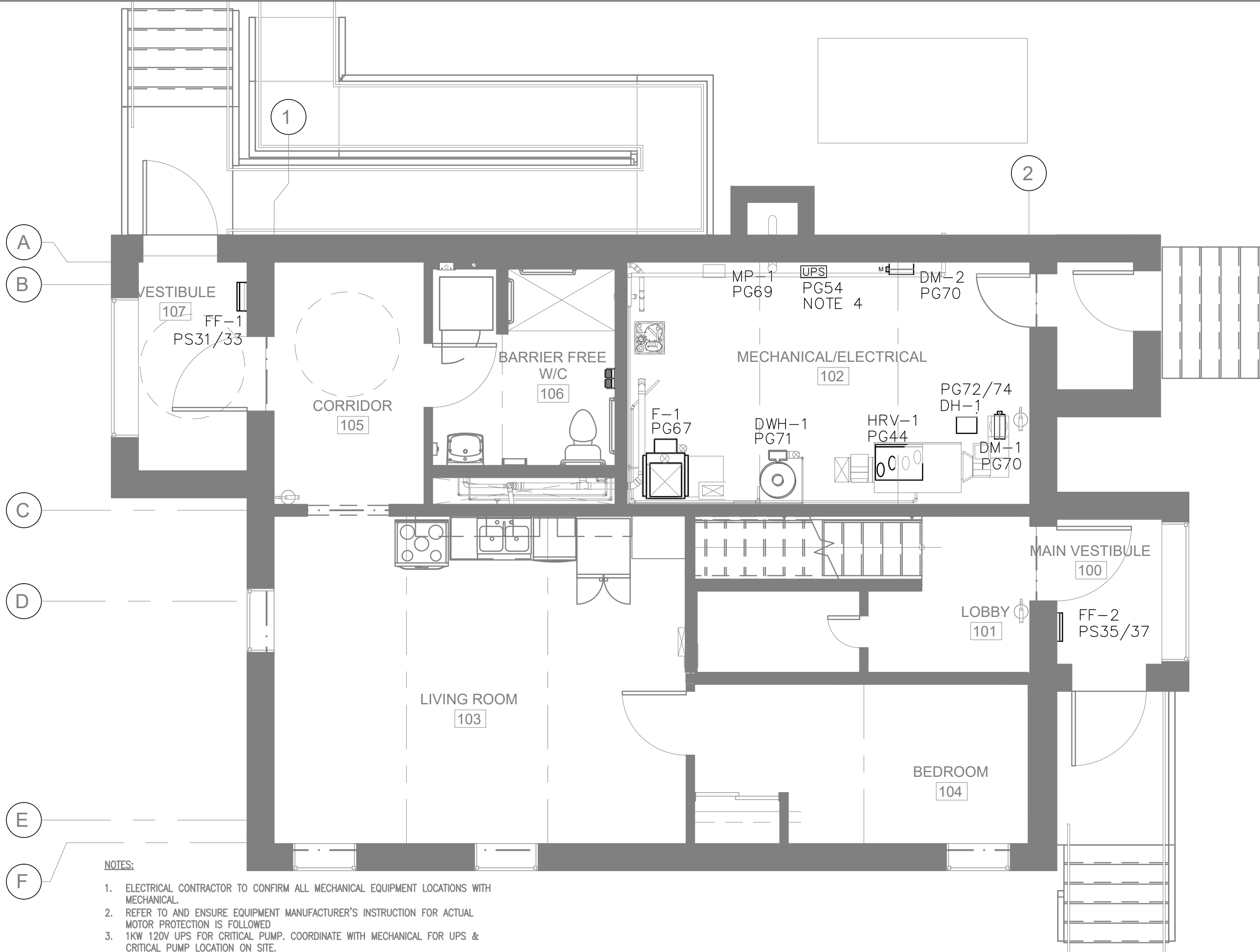
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DRAWING  
**MAIN FLOOR PLAN MECHANICAL EQUIPMENT LOCATION LAYOUT**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
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PROJECT 20103	<b>E402</b>
SCALE 1:50	



**NOTES:**

1. ELECTRICAL CONTRACTOR TO CONFIRM ALL MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL.
2. REFER TO AND ENSURE EQUIPMENT MANUFACTURER'S INSTRUCTION FOR ACTUAL MOTOR PROTECTION IS FOLLOWED
3. 1KW 120V UPS FOR CRITICAL PUMP. COORDINATE WITH MECHANICAL FOR UPS & CRITICAL PUMP LOCATION ON SITE.





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PROJECT  
**QANP OFFICE  
BUILDING  
RENOVATION**

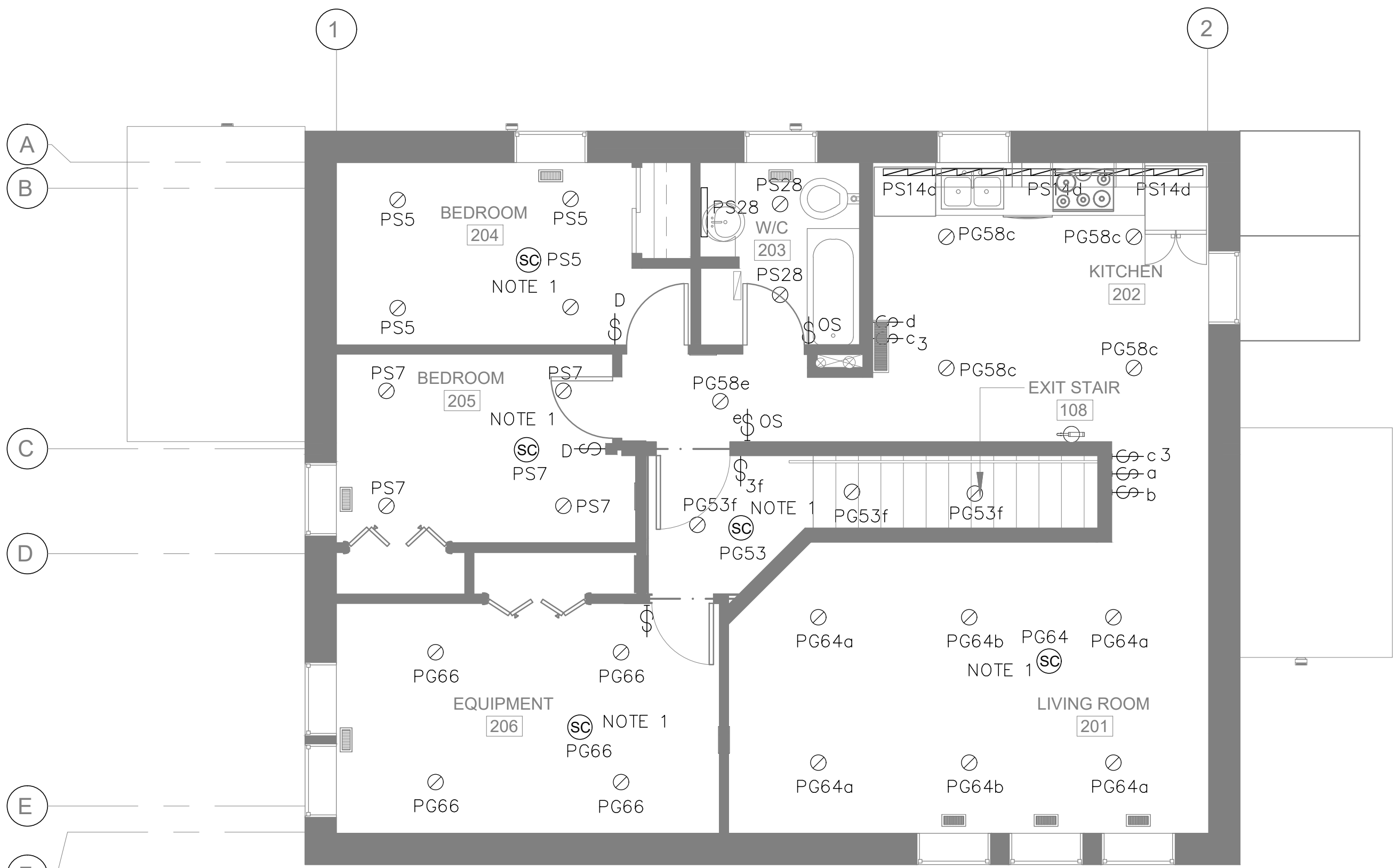
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No.	DATE	ISSUED FOR
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DRAWING  
**2ND FLOOR PLAN  
LIGHTING LAYOUT**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
PROJECT 20103	<b>E500</b>
SCALE 1:50	



NOTES:

1. NEW SMOKE/CARBON MONOXIDE COMBO ALARM 120V HARD-WIRED. CONNECT TO AREA LIGHTING CIRCUITRY. INTERCONNECT ALL SUITE ALARM DEVICES, ENSURE THAT ALL ALARM DEVICES SHALL SOUND BASES ON ONE DEVICE SOUND AT THE SAME UNIT.(TYP)





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**QANP OFFICE  
BUILDING  
RENOVATION**

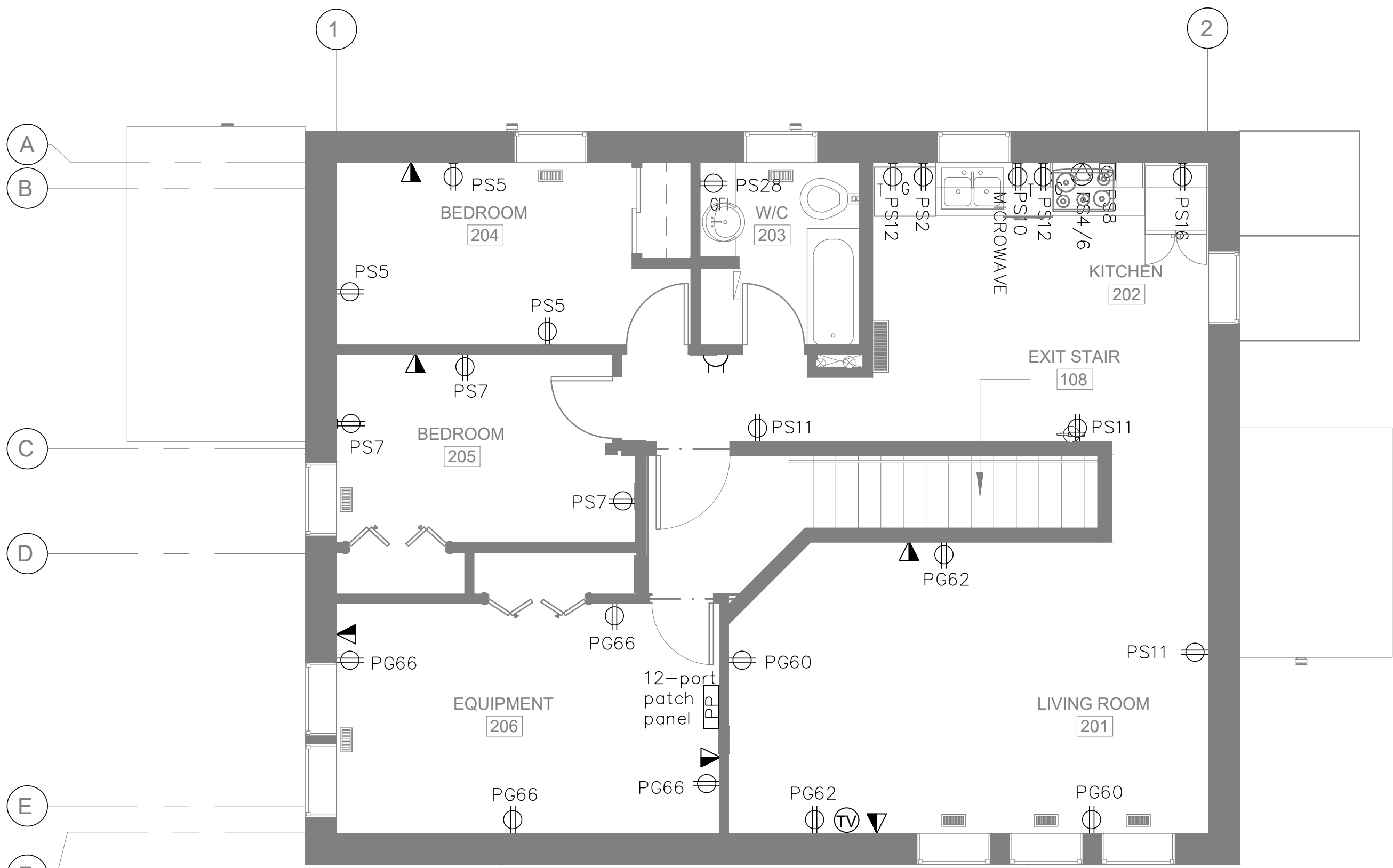
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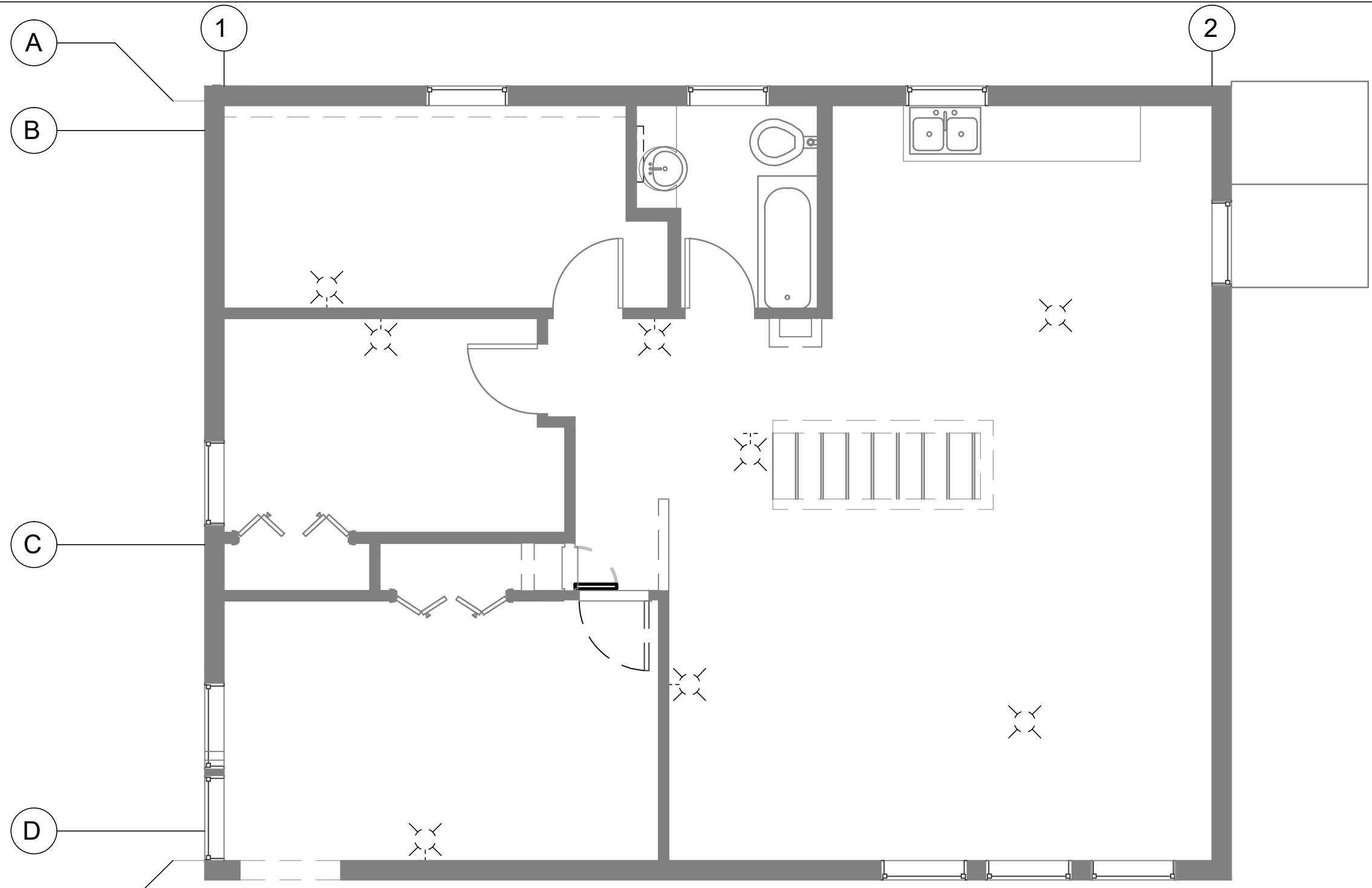
DRAWING  
**2ND FLOOR PLAN  
ELECTRICAL LAYOUT**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
PROJECT 20103	<b>E501</b>
SCALE 1:50	



**NOTES:**  
1. OUTLET BOXES SHOWN ONLY AN ILLUSTRATION, BOXES SHALL NOT BE INSTALLED BACK TO BACK BUT STAGGERED FOR SOUND TRANSMISSION AND MAINTAIN FIRE RATING.



LEGEND	
	EXISTING CEILING MOUNTED LIGHT FIXTURE TO BE REMOVED
	EXISTING WALL MOUNTED LIGHT FIXTURE TO BE REMOVED
	EXISTING WALL MOUNTED LIGHT CONTROL SWITCH TO BE REMOVED
	W/C VALENCE FIXTURE TO BE REMOVED
	CEILING MOUNTED LIGHT FIXTURE TO BE REMOVED

- NOTES:**
1. ALL EXISTING CEILING MOUNTED LIGHT FIXTURES TO BE REMOVED.
  2. ALL EXISTING WALL MOUNTED LIGHT FIXTURES TO BE REMOVED.



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DRAWING  
**2ND FLOOR PLAN LIGHTING DEMOLITION**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
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PROJECT 20103	<b>E502</b>
SCALE 1:50	



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BUILDING  
RENOVATION**

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**ELECTRICAL  
PANEL  
SCHEDULES**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS DRAWN MC

PROJECT

20103

SCALE

NTS

**E600**

PANEL / EQUIPMENT NO: 'PS/PG'  
VOLTAGE: 120 / 240V 1 PHASE 3 WIRE 60Hz.  
MAIN BUS: COPPER, 200A  
MAX INTERRUPTING CAPACITY: 22KA  
LOCATION: SERVICE ROOM

**COMBINATION SERVICE-GENERATOR PANEL 'PS/PG'**

SUPPLIED FROM: UTILITY SERVICE ENTRANCE  
MAIN BREAKER CB SIZE: 200A 2P  
SERVICE CABLE SIZE AWG/KCMIL: CU 3-C#3/0 AWG  
PANEL MAKE AND TYPE: SQ-D OR CUTLER HAMMER

BREAKER			CONDUCTOR	SERVICE	LOAD - WATTS		SERVICE	CONDUCTOR	BREAKER		
CKT NO	RATING AMPS	POLES			A	B			POLES	RATING AMPS	CKT NO
01	15	1	2C#12	EXTERIOR WP RECEPTACLES			2ND FLOOR KITCHEN 202 - DISHWASHER (AFCI)	2C#12	1	15	02
03	15	1	2C#12	EXTERIOR LIGHTS			2ND FLOOR KITCHEN 202 - RANGE	4C#8	2	40	04
05	15	1	2C#12	BEDROOM 204 LIGHTING/RECEPTACLES (AFCI)							06
07	15	1	2C#12	BEDROOM 205 LIGHTING/RECEPTACLES (AFCI)			2ND FLOOR KITCHEN RANGE HOOD/EXH. FAN	2C#12	1	15	08
09	15	1	2C#12	MAIN FLOOR STORAGE LIGHTING/RECEPTACLES (AFCI)			2ND FLOOR KITCHEN 202 MICROWAVE (AFCI)	2C#12	1	15	10
11	15	1	2C#12	SECOND FLR RECEPTACLES (AFCI)			2ND FLOOR KITCHEN 202 - T-SLOT GFI RECEPTACLE (AFCI)	2C#12	1	20	12
13	15	1		SPARE			2ND FLOOR KITCHEN 202 - STRIP LED LIGHTS	2C#12	1	15	14
15	15	1		SPARE			2ND FLOOR KITCHEN 202 - FRIDGE (AFCI)	2C#12	1	15	16
17	15	1		SPARE			SPARE	2C#12	1	15	18
19	15	1		SPARE			SPARE		1	15	20
21	15	1		SPARE			SPARE		1	15	22
23	15	1		SPARE			SPARE		1	15	24
25	15	1		SPARE			SPARE		1	15	26
27	15	1	2C#12	VEHICLE RECEPTACLE 1 (AFCI)			W/C 203 LIGHTING/RECEPTACLE/EXH. FAN (AFCI)	2C#12	1	15	28
29	15	1	2C#12	VEHICLE RECEPTACLE 2 (AFCI)			DISHWASHER (AFCI)	2C#12	1	15	30
31	15	1	3C#12	FF-1 VESTIBULE HEATER				2C#12	1	15	32
33											34
35	15	1	3C#12	FF-2 VESTIBULE HEATER			PANEL S	3C#6	2	60	36
37											38
39	15	1	2C#12				PANEL PG	3C#6	2	60	40

**ROTARY TRANSFER SWITCH / BREAKER SECTION (ESSENTIAL LOADS)**

BREAKER			CONDUCTOR	SERVICE	LOAD - WATTS		SERVICE	CONDUCTOR	BREAKER		
CKT NO	RATING AMPS	POLES			A	B			POLES	RATING AMPS	CKT NO
41	20	1	2C#12	MECHANICAL/ELECTRICAL RM (BOILER RM) (NOTE 4)			DOMESTIC RECIRC. PUMP (NOTE 4)	2C#12	1	15	42
43	15	1	2C#12	MECHANICAL/ELECTRICAL RM (BOILER RM) PUMPS (NOTE 4)			HRV-1 9.4A 120V (NOTE 4)	2C#12	1	15	44
45	15	1	2C#12	MECHANICAL/ELECTRICAL RM (BOILER RM) HEATING CONTROLS (NOTE 4)			SANICUBE PUMP (NOTE 4)	2C#12	1	15	46
47	15	1	2C#12	FUEL TANK MONITOR			SANICUBE PUMP (NOTE 4)	2C#12	1	15	48
49	15	1		SPARE			EXISTING HEAT TRACE / RECIRC PUMP (NOTE 4)	2C#12	1	15	50
51	15	1		SPARE			MAIN VESTIBULE 100 LIGHTING/RECEPTACLE (AFCI)	2C#12	1	20	52
53	15	1	2C#12	LOBBY 101/EXIT STAIR 108 LIGHTS/PLUGS (AFCI)			1KW UPS (UPS FOR CRITICAL PUMP)	2C#12	1	15	54
55	15	1		SPARE			SPARE		1	15	56
57	15	1	2C#12	MECH./ELECT. RM. LIGHTING/RECEPTACLES			KITCHEN 202 LIGHTING	2C#12	1	15	58
59	15	1	2C#12	MECH/ELECT. RM. RECEPTACLES			LIVING RM 201 RECEPTACLES (AFCI)	2C#12	1	15	60
61	15	1	2C#12	COMMUNICATION BACKBOARD			LIVING RM 201 RECEPTACLES (AFCI)	2C#12	1	15	62
63	15	1	2C#12	LIVING RM 103 LIGHTS			LIVING RM 201 LIGHTING	2C#12	1	15	64
65	15	1	2C#12	LIVING RM 103 RECEPTACLES (AFCI)			EQUIPMENT 206 LIGHTING/RECEPTACLES (AFCI)	2C#12	1	15	66
67	20	1	2C#12	F-1 FURNACE (NOTE 4&5)			HRV CONDENSATE PUMP	2C#12	1	15	68
69	15	1	2C#12	FUEL CONTROL/INDICATOR MP-1 (NOTE 4&5)			DM-1/DM-2 DAMPERS	2C#12	1	15	70
71	15	1	2C#12	DWH-1 (NOTE 4&5)							72
73	15	1	2C#12	JET PUMP (PRESSURE TANK) (NOTE 4)			DH-1 HRV DUCT HEATER	3C#12	1	15	74
75	15	1		SPARE			SPARE		1	15	76
77	15	1		SPARE			SPARE		1	15	78
79	15	1		SPARE			SPARE		1	15	80

SUB-PANEL NO: 'S'  
VOLTAGE: 120 / 240V 1 PHASE 3 WIRE 60Hz.  
MAIN BUS: COPPER, 60A, WITH MAIN LUGS  
MAX INTERRUPTING CAPACITY: 22KA  
LOCATION: LIVING RM 103

**PANEL 'S'**

SUPPLIED FROM: SERVICE PANEL 'PS'  
SUB-FEEDER CB/FUSE SIZE: 60A 2P  
SUB-FEED CABLE SIZE AWG/KCMIL: 3C#6 AWG TECK90  
PANEL MAKE AND TYPE: SQ-D OR CUTLER HAMMER

BREAKER			CONDUCTOR	SERVICE	LOAD - WATTS		SERVICE	CONDUCTOR	BREAKER		
CKT NO	RATING AMPS	POLES			A	B			POLES	RATING AMPS	CKT NO
01	15	1	2C#12	BEDROOM 104 LIGHTS/RECEPTACLES (AFCI)			CORRIDOR 105/VESTIBULE 107 LIGHTING	2C#12	1	15	02
03	15	1	2C#12	SPARE			CORRIDOR 105/VESTIBULE 107 RECEPTACLES (AFCI)	2C#12	1	15	04
05	15	1	2C#12	LIVING RM 103 KITCHEN - STRIP LED LIGHTS			MAIN FLOOR W/C 106 - DRYER	4C#10	2	30	06
07	15	1	2C#12	MAIN FLOOR W/C 106 - LIGHTS/RECEPT/EXH. (AFCI)							08
09	15	1	2C#12	LIVING RM 103 RECEPTACLES (AFCI)			MAIN FLOOR W/C 106 - WASHER (AFCI)	2C#12	1	15	10
11	40	2	4C#8	LIVING RM 103 KITCHEN - RANGE			LIVING RM 103 KITCHEN RANGE HOOD/EXH. FAN	2C#12	1	15	12
13							LIVING RM 103 KITCHEN MICROWAVE (AFCI)	2C#12	1	15	14
15	15	1	2C#12	LIVING RM 103 KITCHEN - DISHWASHER			LIVING RM 103 KITCHEN - T-SLOT GFI RECEPT. (AFCI)	2C#12	1	20	16
17	15	1	2C#12	LIVING RM 103 KITCHEN - FRIDGE (AFCI)							18
19	15	1									20
21	15	1									22
23	15	1									24

**NOTES:**

- TANDAM MICRO-BREAKERS SHALL BE USED. PANEL SHALL BE SQUARE-D OR PRIOR APPROVED EQUAL
- THIS UPGRADED SERVICE PANEL REPLACES THE EXISTING SYLVANIA/SIEMENS PANELS
- REFER TO E401 FOR NEW SERVICE PANEL LOCATION AND THE SCHEMATIC
- ELECTRICAL CONTRACTOR TO CONFIRM EXISTING INSTALLATION TO BE TRANSFERRED TO THE NEW PANEL
- ELECTRICAL CONTRACTOR TO CONFIRM EXISTING/RELOCATED DEVICES ON SITE.
- REFER TO AND ENSURE EQUIPMENT MANUFACTURER'S INSTRUCTION FOR ACTUAL MOTOR PROTECTION IS FOLLOWED





**Engineering Ltd.**

**Plan-Eng**  
consulting inc  
ELECTRICAL ENGINEERING



PROJECT

**QANP OFFICE  
BUILDING  
RENOVATION**

RESOLUTE, NUNAVUT

No.	DATE	ISSUED FOR
1	18/11/2022	Issued for Tender, Rev. 1

DD/MM/YY

DRAWING

**MECHANICAL  
EQUIPMENT LIST**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
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PROJECT 20103	<b>E601</b>
SCALE NTS	

**MECHANICAL EQUIPMENT LIST**

TAG	LOCATION	VOLTS	PH	KW/HP	PANEL CCT.#	BR.CCT.CONDUCT	REMARKS
HRV-1	MECHANICAL ROOM	120V	1	15A, MOCP	PG44	2C#12	HEAT RECOVERY VENTILATOR 15A, MOCP
DM-1	MECHANICAL ROOM	120V	1	FRACTIONAL HP	PG70	2C#12	2 POSITION ACTUATION, HRV-1 OUTDOOR AIR CONTROL DAMPER
DM-2	MECHANICAL ROOM	120V	1	FRACTIONAL HP	PG70	2C#12	2 POSITION ACTUATION, HRV-1 EXHAUST AIR CONTROL DAMPER
DH-1 HRV DUCT HEATER	MECHANICAL ROOM	240V	2	2KW	PG72/74	2C#12	
CONDENSATE PUMP		120V	1	FRACTIONAL HP	PG68	2C#12	PLUG IN REQUIRED
SUMP PUMP		120V	1	15A, MOCP	PG46	2C#12	
SUMP PUMP - SANICUBE		120V	1	10A	PG48	2C#12	
FF-1 VESTIBULE HEATER	VESTIBULE 107	240V	2	1.5KW	PS31/33	3C#12	
FF-2 VESTIBULE HEATER	MAIN VESTIBULE 100	240V	2	1.5KW	PS35/37	3C#12	NEW VESTIBULE
RANGE HOOD	LIVING RM 103	120V	1	FRACTIONAL HP	PS15	2C#12	RANGE HOOD IN THE BOARD ROOM, 15A, MOCP
F-1 FURNACE	MECHANICAL ROOM	120V	1	1HP, 18A, MCA	PG67	2C#12	20A, MOCP. STANDARD FURNACE T-STAT HONEYWELL 8000 WITH OCCUPIED PROGRAMMABLE MODE
MP-1	MECHANICAL ROOM	120V	1	FRACTIONAL HP	PG69	2C#12	15A, MOCP. FUEL STORAGE TANK MONITORING PANEL
DWH-1	MECHANICAL ROOM	120V	1	5.8A	PG71	2C#12	EXISTING OIL FIRED DOMESTIC WATER HEATER. 15A, MOCP
UTILITY RECIRC PUMP/HEAT TAPE					PG50	2C#12	15A, MOCP
JET PUMP (PRESSURE TANK)		120V	1		PG73	2C#12	
DISHWASHER		120V	1		PS30	2C#12	
RANGE HOOD	KITCHEN 202	120V	1	FRACTIONAL HP	PS8	2C#12	
BATHROOM EXH	W/C 203	120V	1	FRACTIONAL HP	PS28	2C#12	
BATHROOM EXH	W/C 106	120V	1	FRACTIONAL HP	PS25	2C#12	

NOTES:

1. ELECTRICAL CONTRACTOR TO CONFIRM EXISTING INSTALLATION TO BE TRANSFERRED TO THE NEW PANEL
2. ELECTRICAL CONTRACTOR TO CONFIRM EXISTING DEVICES ON SITE.
3. ELECTRICAL CONTRACTOR TO CONFIRM ALL MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL.
4. REFER TO AND ENSURE EQUIPMENT MANUFACTURER'S INSTRUCTION FOR ACTUAL MOTOR PROTECTION IS FOLLOWED