

PROJECT  
**QANP  
OPERATIONS  
GARAGE**

RESOLUTE, NU

No.	DATE	ISSUED FOR
6	12/4/2022	Issued for IFT

DRAWING  
**GROUND FLOOR  
PLAN**

DO NOT SCALE FOR DIMENSIONS

DESIGN RWG	DRAWN LM/YA
PROJECT 21109	<b>A102</b>
SCALE 1 : 100	

**WALL ASSEMBLIES**

**W1**  
-VERTICAL 12mm CORRUGATED SIDING 226A  
-PRE-ENG WALL ASSEMBLY, C/W MIN. RSI-7.1  
-SPRAY FOAM INSULATION  
-25MM DEEP 10 GA Z-FURRING CHANNELS PERP. TO Z-GIRT  
-METAL LINER PANEL

**P1 - INTERIOR PARTITION WALL**  
-12.7 MM GYPSUM BOARD  
-92 MM METAL STUD @ 400 mm c/c  
-92 MM MINERAL WOOL ACOUSTIC BATT INSULATION  
-12.7 MM GYPSUM BOARD

**P2 - INTERIOR PLUMBING WALL**  
-12.7 MM GYPSUM BOARD  
-18G METAL STUD @ 400 mm c/c, REF. TO STRUCTURAL  
-152 MM MINERAL WOOL ACOUSTIC BATT INSULATION  
-12.7 MM GYPSUM BOARD

**P3 - INTERIOR FIRE SEPARATION WALL**  
**1 HR FS, NBCC S7a**  
-16 MM TYPE X GYPSUM BOARD  
-18G METAL STUD @ 400 mm c/c, REF. TO STRUCTURAL  
-152 MM MINERAL WOOL ACOUSTIC BATT INSULATION  
-16 MM TYPE X GYPSUM BOARD

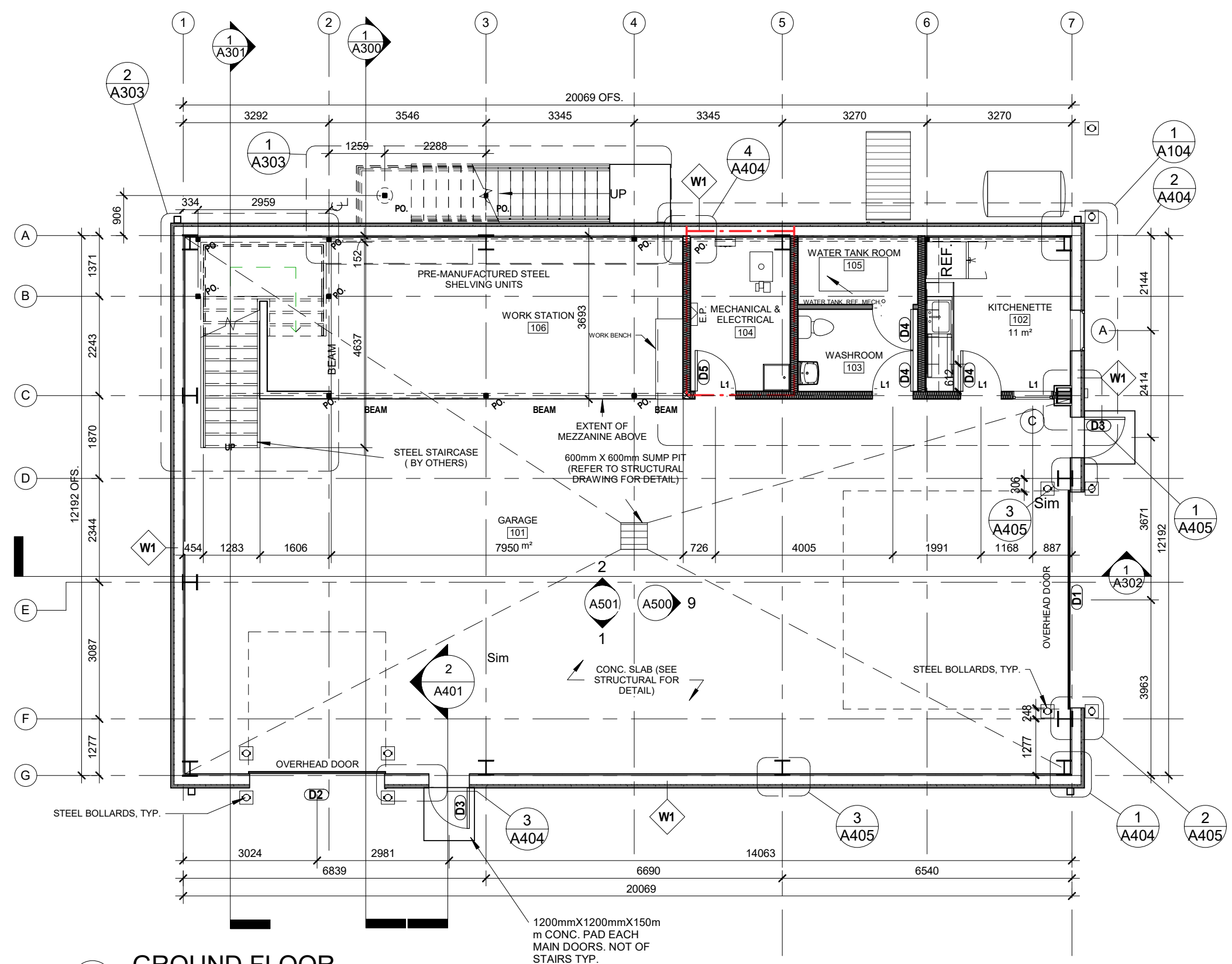
**F1-GROUND FLOOR**  
-REINFORCED CONC. SLAB, REF TO STRUCTURAL DRAWINGS FOR DETAIL

**F2-MEZZANINE FLOOR**  
-PERFORATED METAL FLOOR PANEL  
-16MM PLYWOOD SHEET  
-PRE-ENG FLOOR JOIST, REF. TO STRUCTURAL DRAWING  
-12.7MM DRYWALL

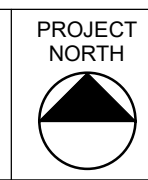
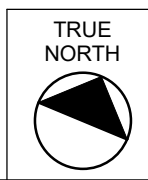
**R1-ROOF**  
-STANDING SEAM METAL ROOF NO. VICWEST TRADITION 100 W/ RSI 7 RIGID INSULATION ON 16MM PLYWOOD SHEET ON PRE-ENG ROOF STRUCTURAL (SEE SHOP DRAWINGS FOR DETAIL)

**LEGEND**

--- 1 HR FIRE RATING



**1 GROUND FLOOR**  
1 : 100











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DRAWING  
**BUILDING  
ELEVATIONS**

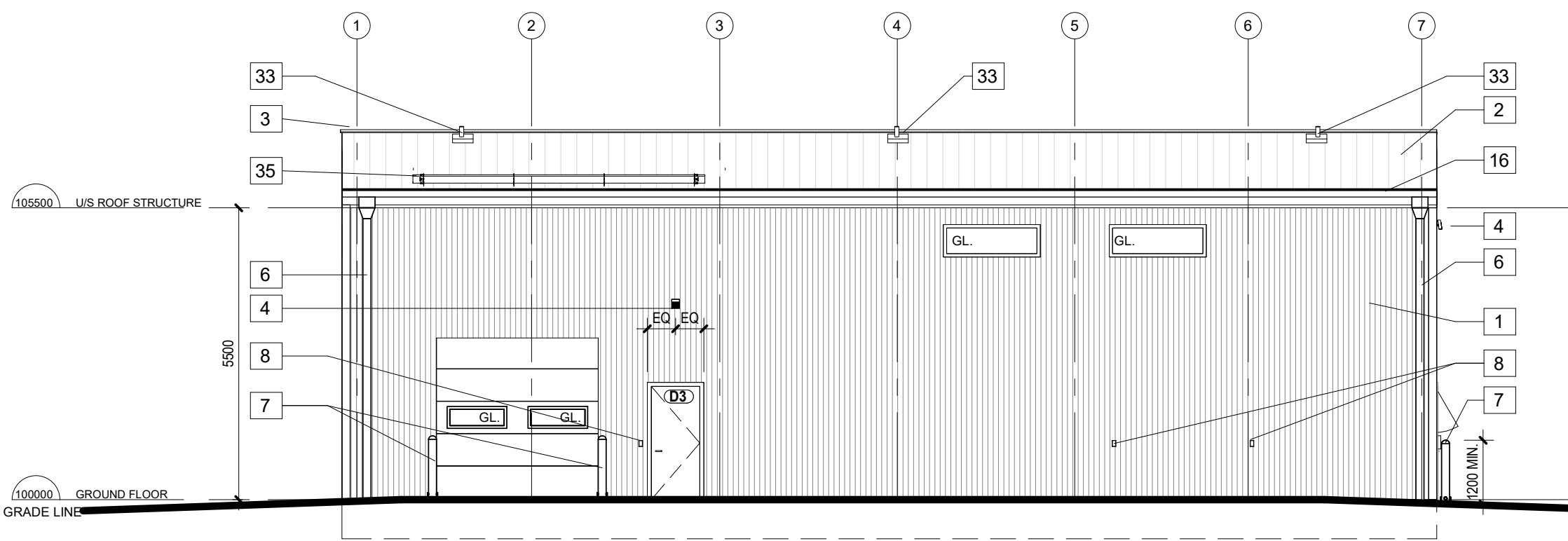
DO NOT SCALE FOR DIMENSIONS

DESIGN RWG	DRAWN YA
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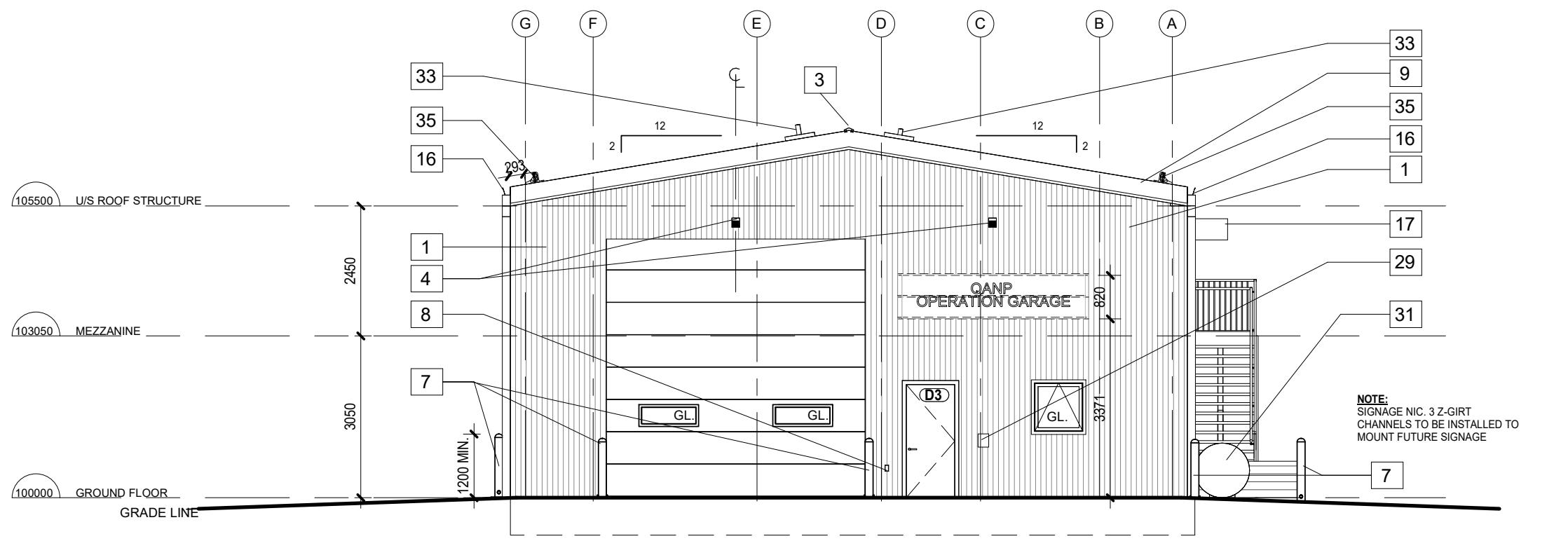
PROJECT 21109	<b>A200</b>
SCALE 1 : 100	

**KEYNOTE LEGEND**

Key Value	DESCRIPTION
1	VERT. 12mm CORRUGATED METAL SIDING 226A
2	STEEL ROOFING
3	VENTED RIDGE
4	EXT. LED BUILDING LIGHT, REF. ELEC.
5	EXHAUST AIR WALLHOOD, REF. MECH.
6	STEEL DOWNSPOUT
7	PAINTED STEEL BOLLARD
8	EXT. OUTLET, REF. ELEC.
9	ALUMINIUM FASCIA
10	INTAKE & EXHAUST AIR WALLHOODS, REF. MECH.
11	COMBUSTION AIR INLET, REF. MECH.
12	DECORATIVE WOOD PANEL
13	WATER TANK VENT/OVERFLOW, REF. MECH.
14	WATER TANK FILL POINT, REF. MECH.
15	EXT. STEEL EXIT STAIR, LANDING, & GUARD
16	ALUMINIUM GUTTER
17	INTAKE AIR WALLHOOD, REF. MECH.
18	STEEL COLUMN (REF. TO STRUCT.)
19	STEEL STAIRCASE
20	PRE-ENG. STEEL COLUMN
21	BEAM (SEE STRUCTURAL DRAWING FOR DETAIL)
22	OVERHEAD DOOR HARDWARE
23	INTERIOR METAL PANEL
24	BOILER, REF. TO MECH.
25	WATER HEATER, REF. TO MECH
26	ELECTRIC PANEL, REF. TO ELEC.
27	EMERGENCY LIGHT, REF. TO ELEC.
28	SINK, REF. TO MECH
29	LOCK BOX
30	HRV O/A INTAKE, REF. TO MECH.
31	OIL TANK, REF. TO MECH.
32	CEILING LIGHT, REF. TO ELEC.
33	ROOF ANCHOR POST
34	METAL LINEAR PANEL
35	SNOW GUARD



**1 SOUTH ELEVATION**  
1 : 100



**2 EAST ELEVATION**  
1 : 100









**Guy Architects Ltd.**  
**PERMIT No. 011**  
Issued pursuant to Section 29 of the  
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DRAWING

**BUILDING SECTION**

DO NOT SCALE FOR DIMENSIONS

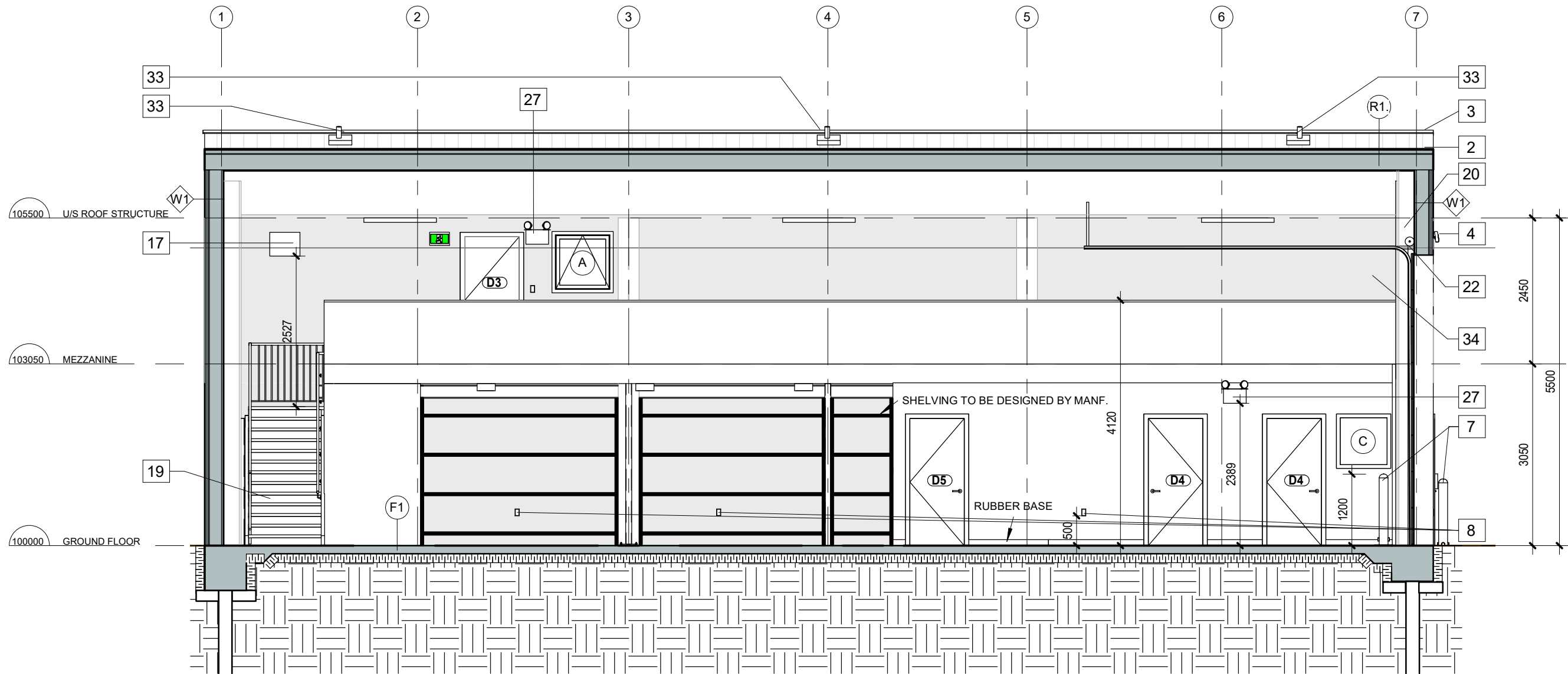
DESIGN  
RWG

DRAWN  
YA

PROJECT  
21109

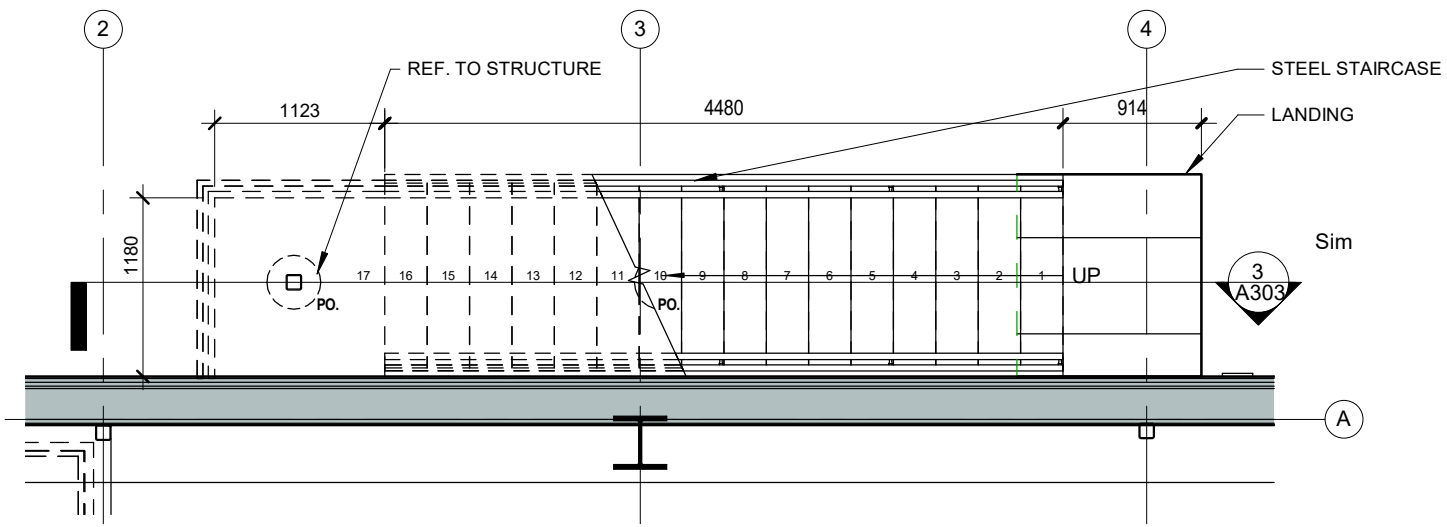
SCALE  
As indicated

**A302**

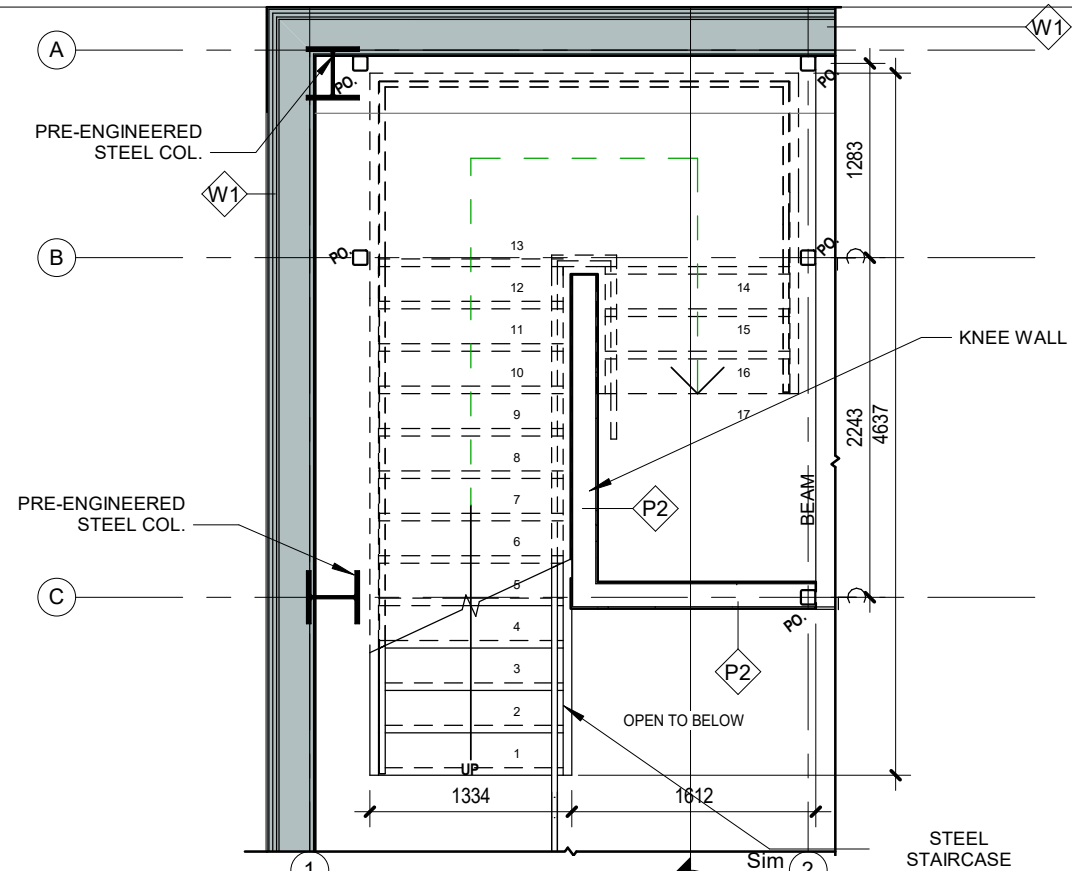


**1** BUILDING CROSS SECTION 3  
1 : 75

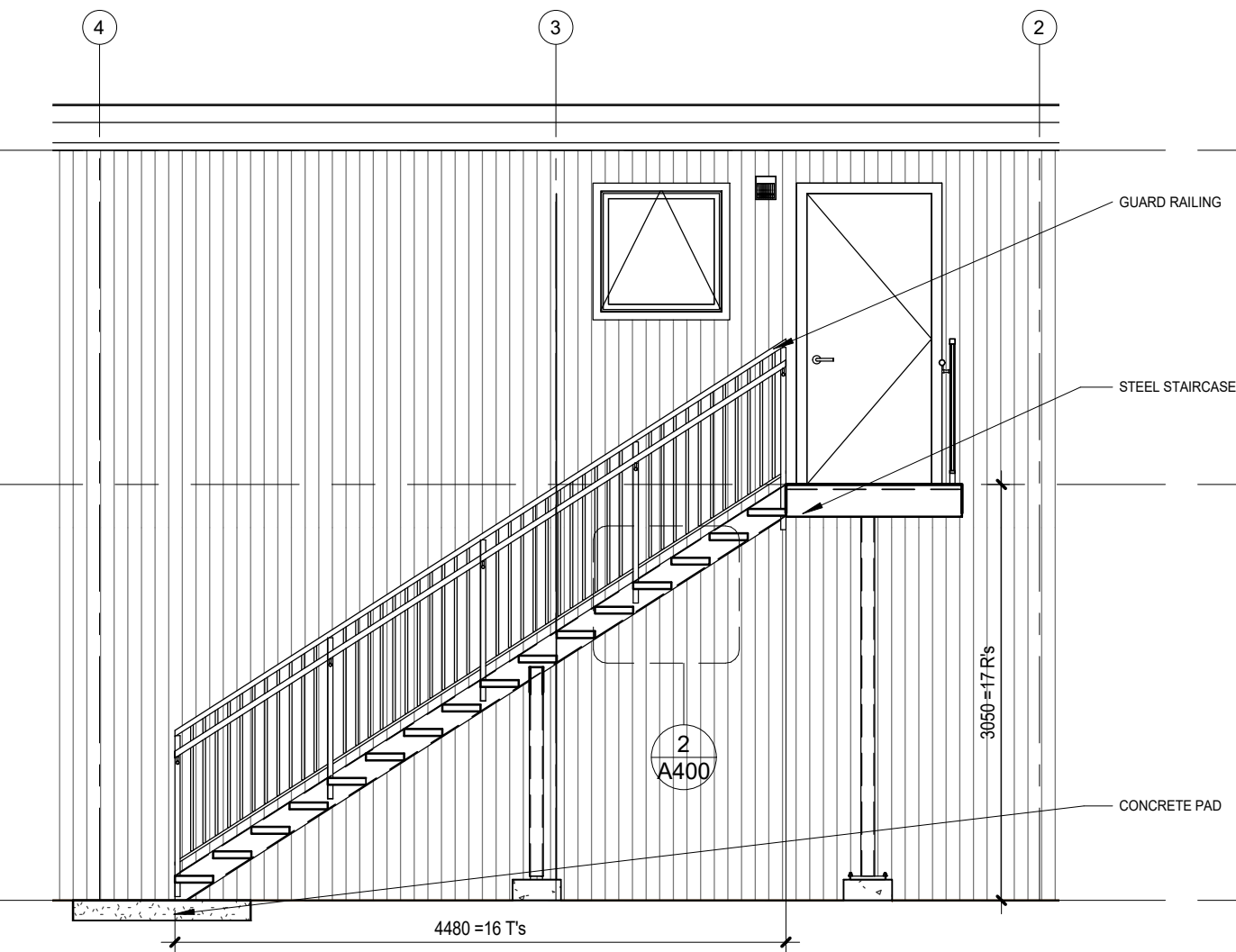
LEGEND	
	METAL LINEAR PANEL



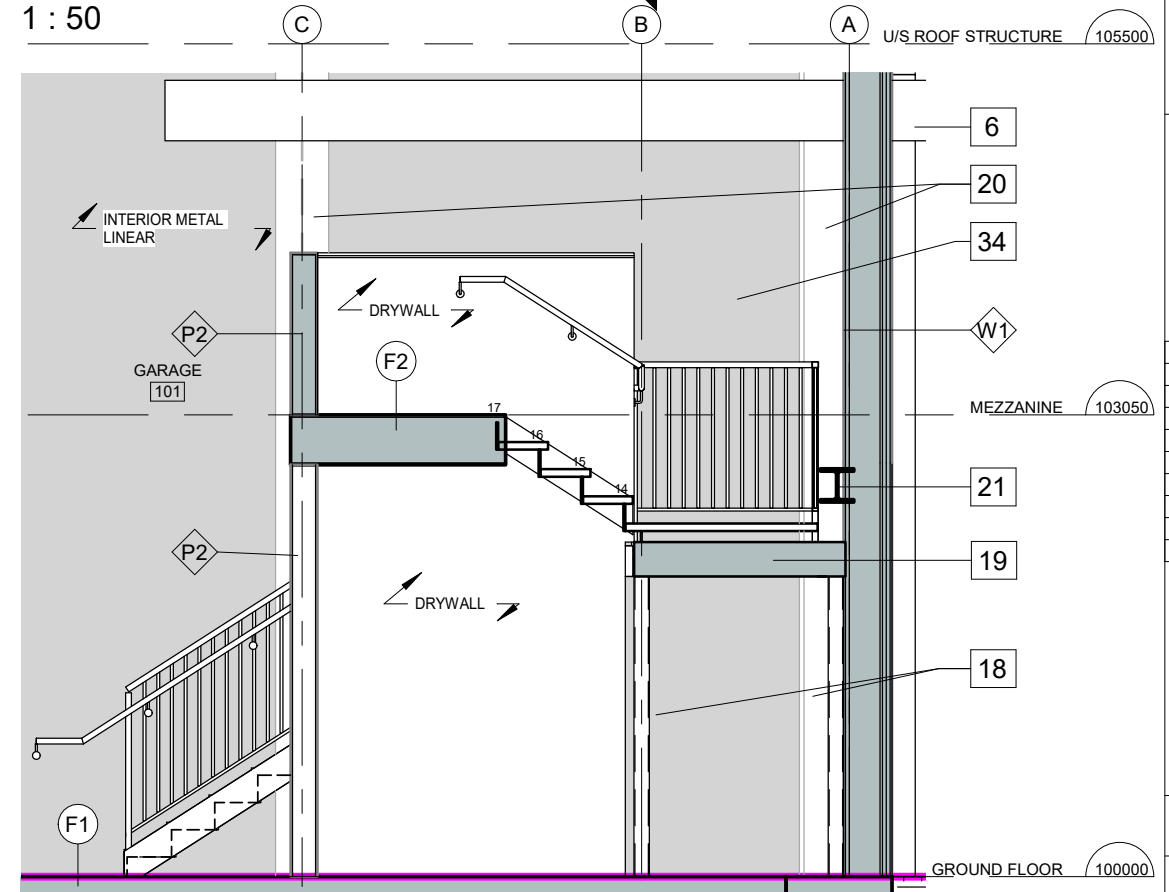
**1** EXTERIOR STAIR  
1 : 50



**2** INTERIOR STAIR  
1 : 50



**3** EXTERIOR STAIR SECTION  
1 : 50



**4** INTERIOR STAIR SECTION  
1 : 50



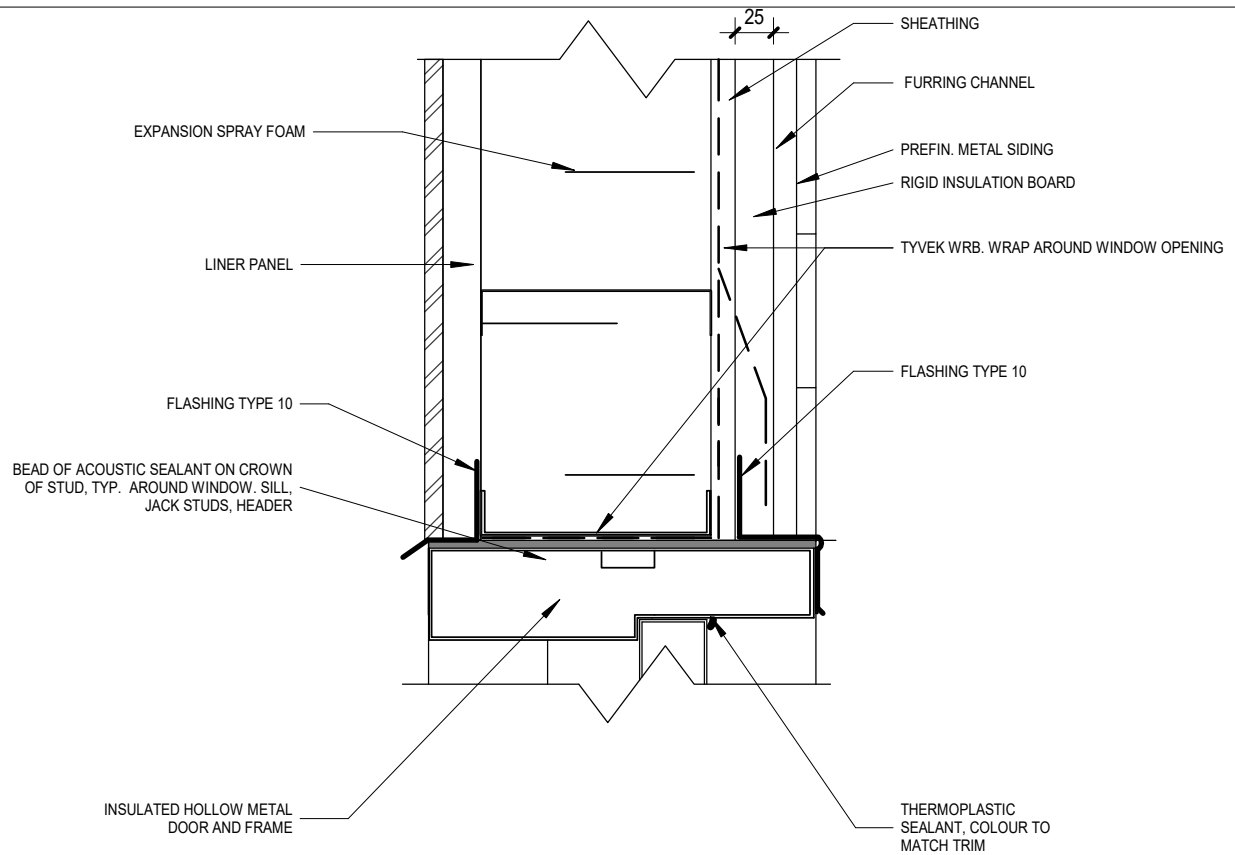
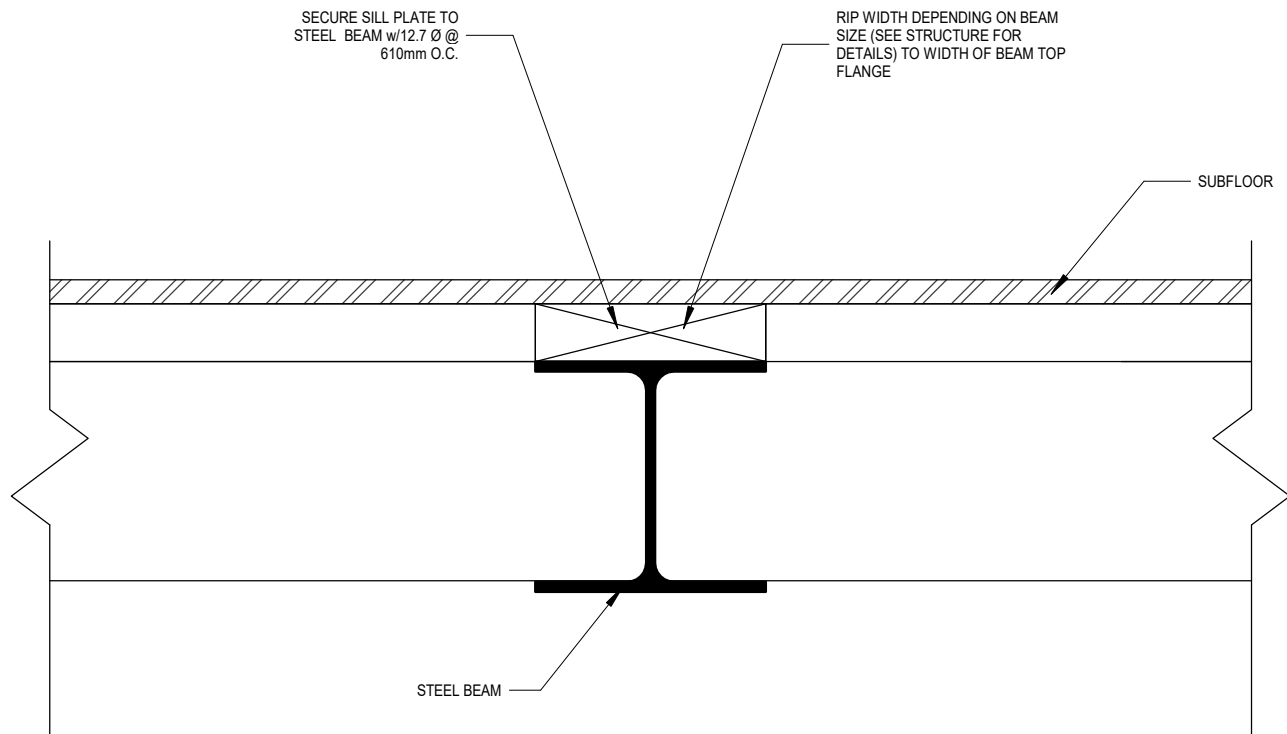
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DESIGN RWG	DRAWN YA
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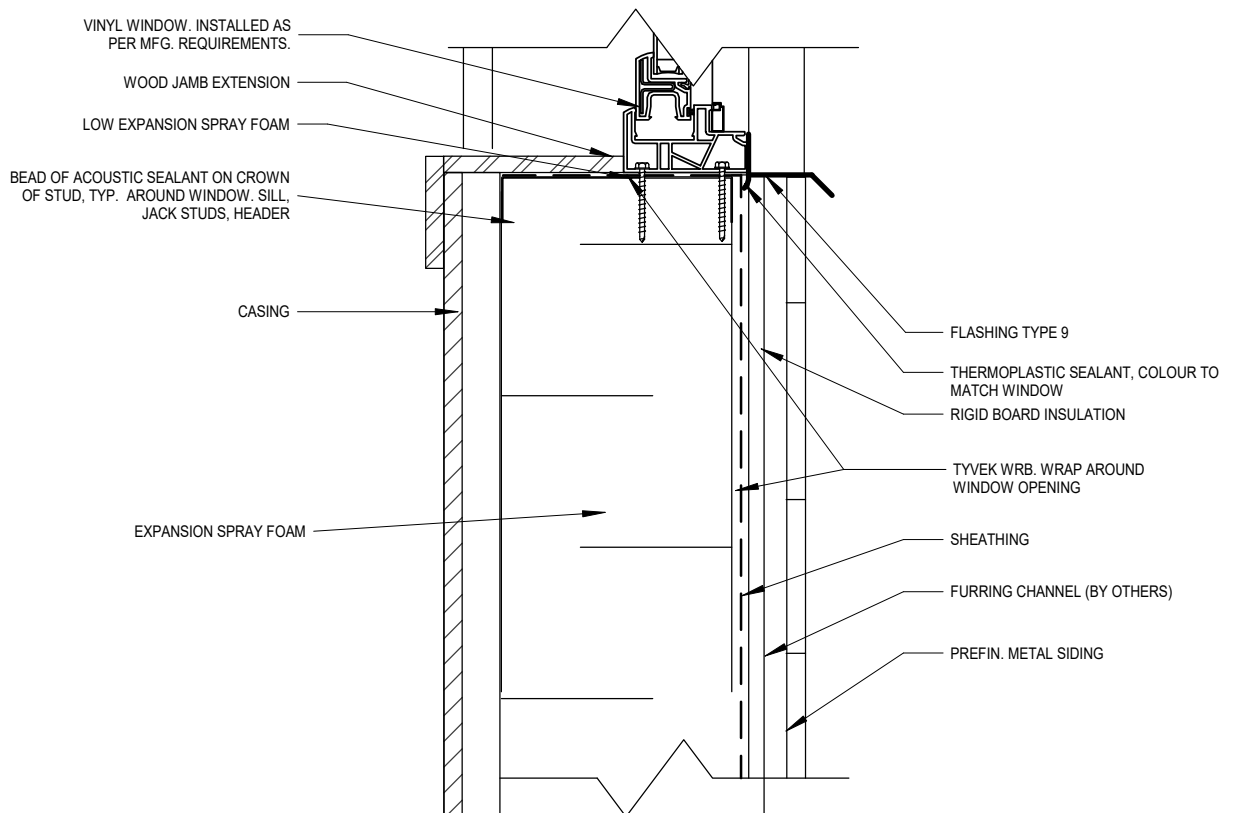
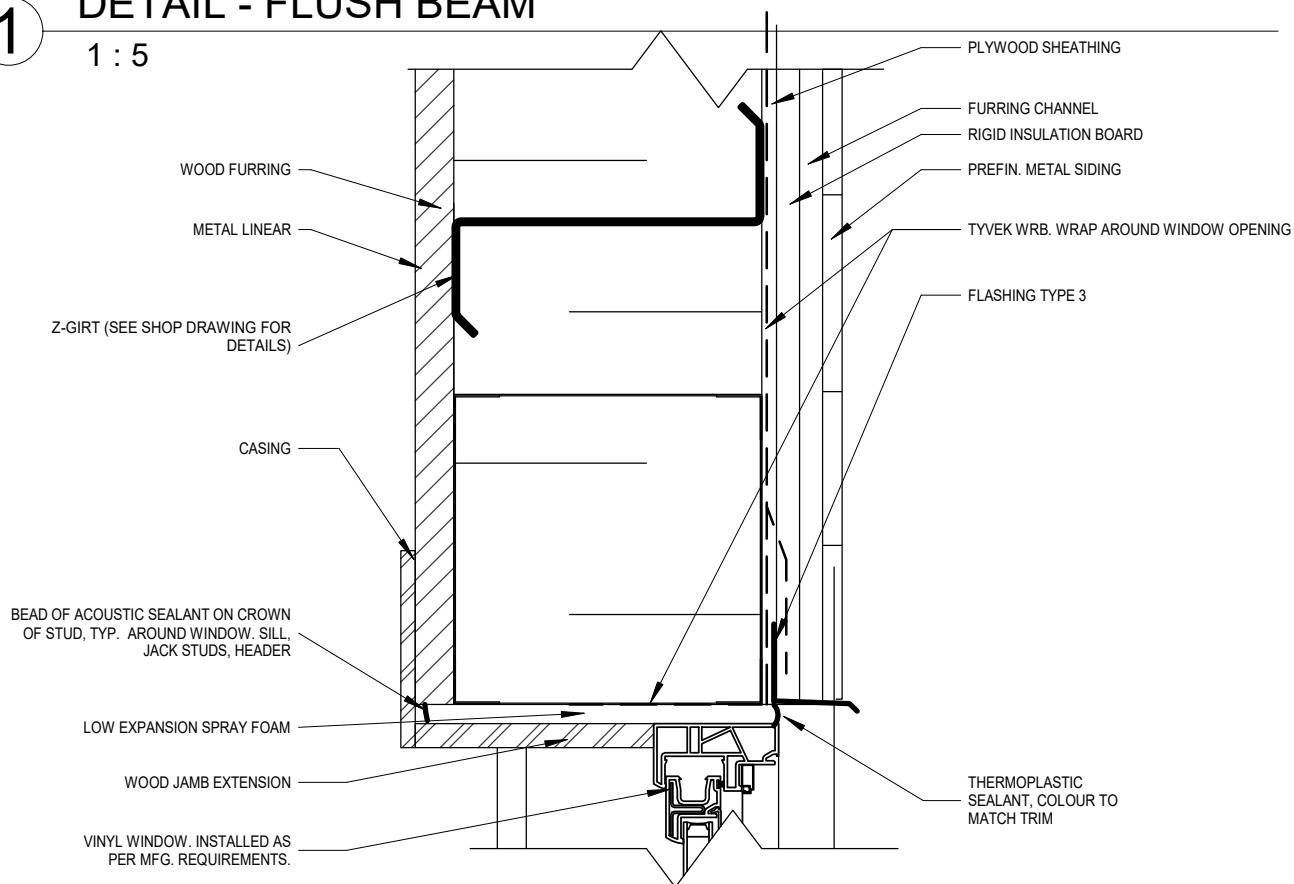
PROJECT 21109	<b>A303</b>
SCALE 1 : 50	





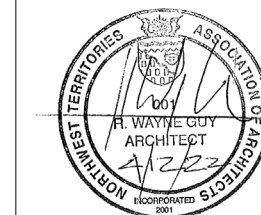
**1** DETAIL - FLUSH BEAM  
1 : 5

**2** DETAIL - SIDING - DOOR HEAD  
1 : 5



**3** DETAIL - SIDING - WINDOW HEAD  
1 : 5

**4** DETAIL - SIDING - WINDOW SILL  
1 : 5



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DESIGN RWG	DRAWN YA
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GARAGE

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DRAWING

SECTION DETAILS

DO NOT SCALE FOR DIMENSIONS

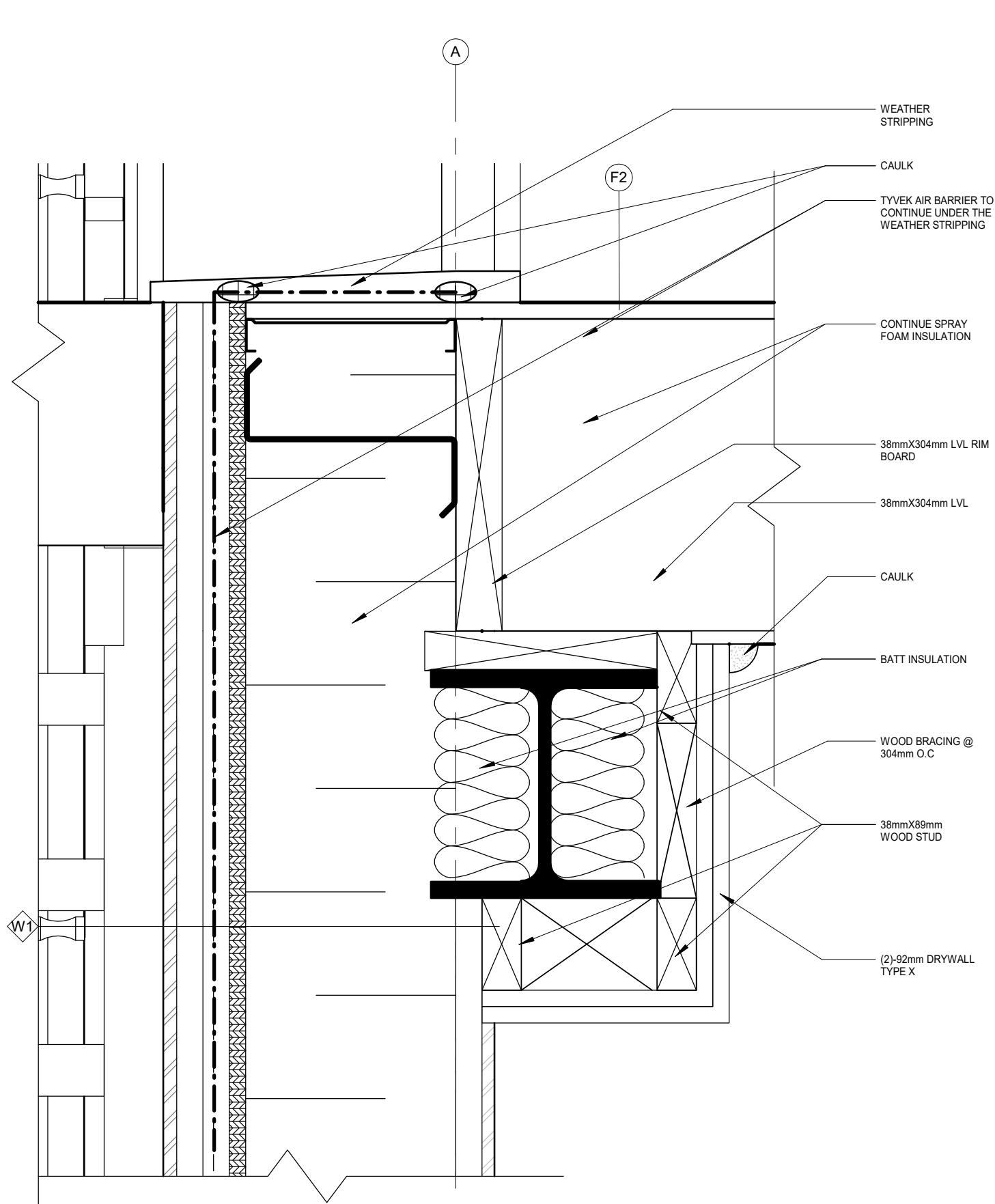
DESIGN  
RWG

DRAWN  
YA

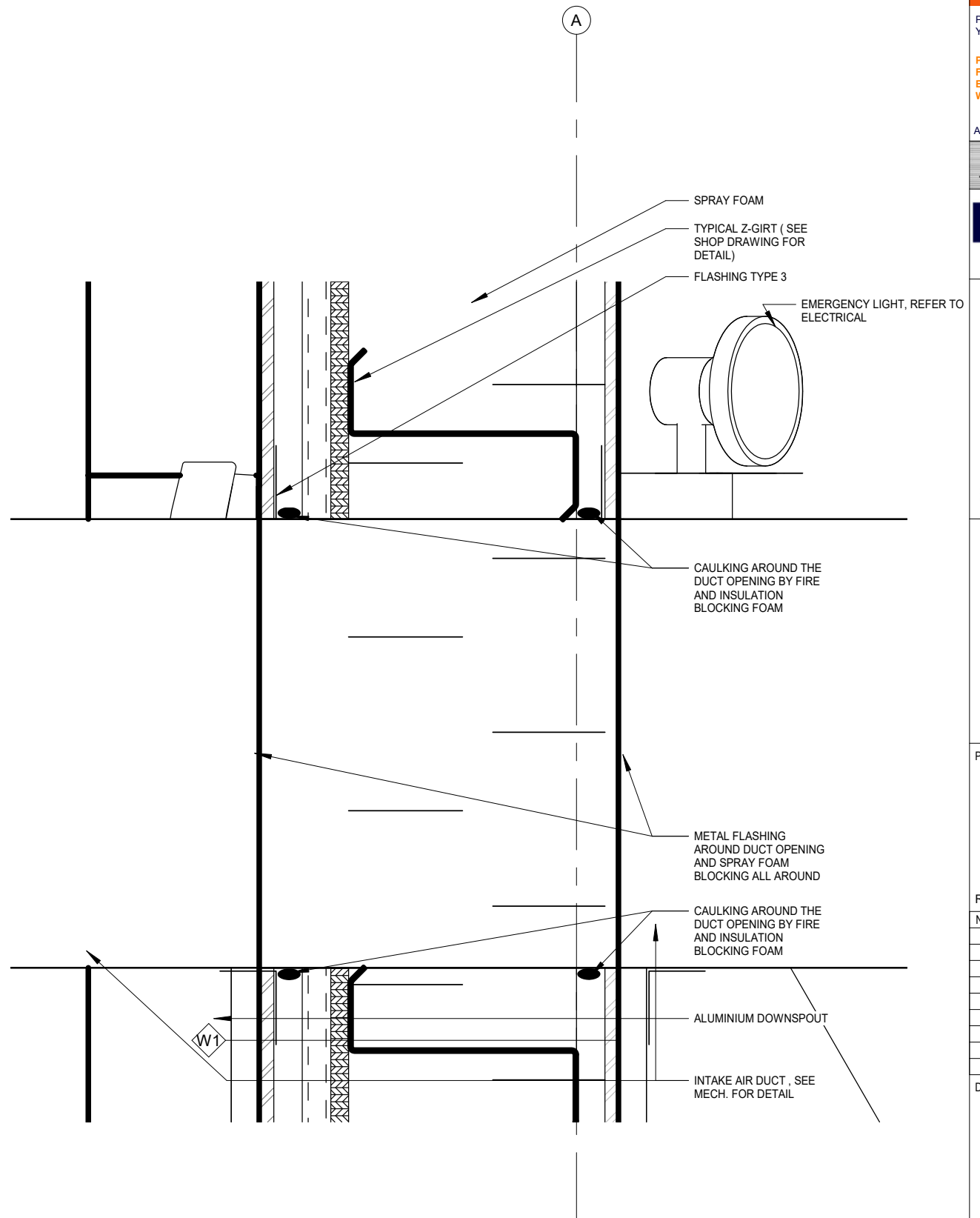
PROJECT  
21109

SCALE  
1:5

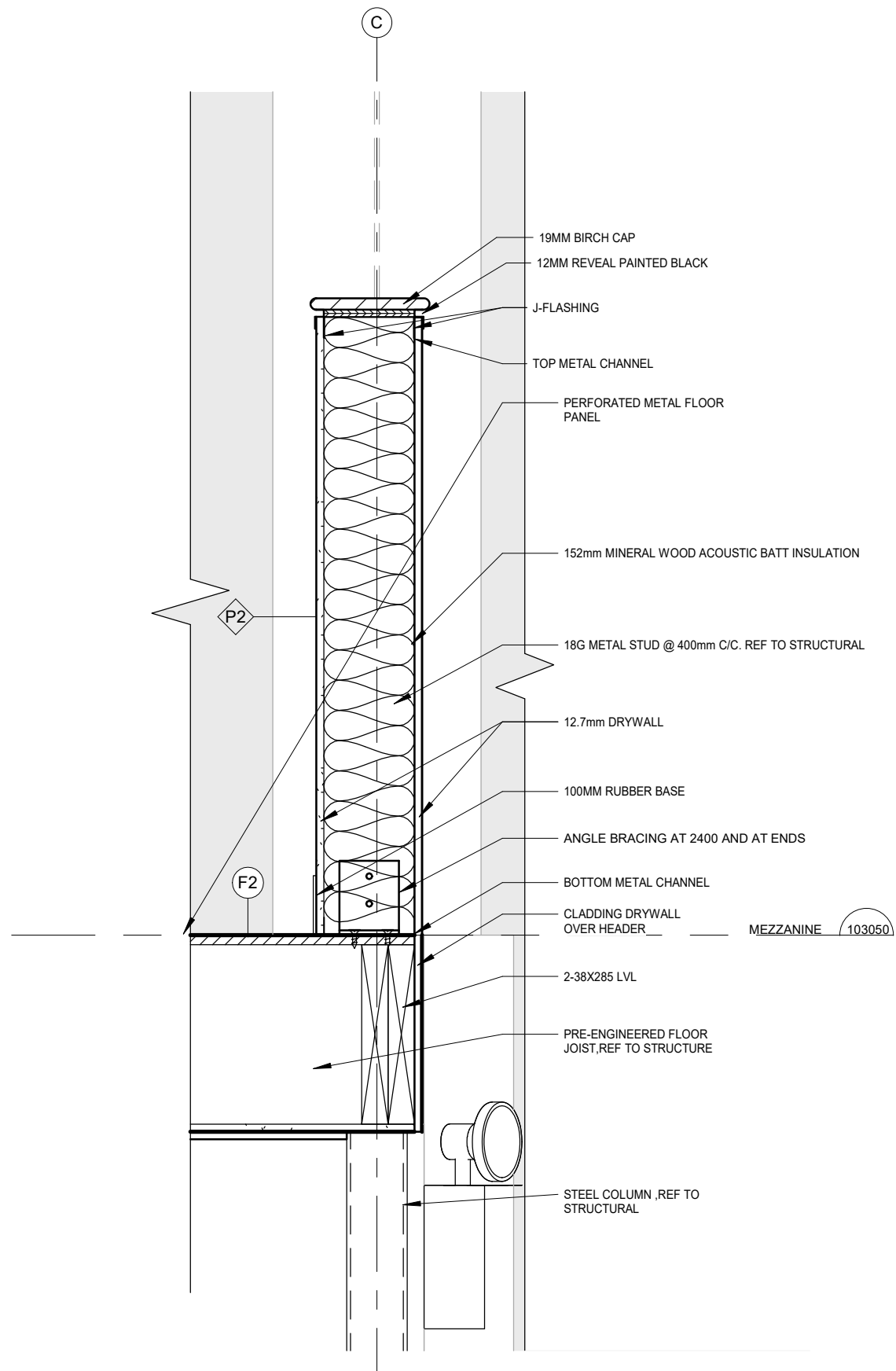
**A402**



**1** FIRE BLOCKING DETAIL  
1:5

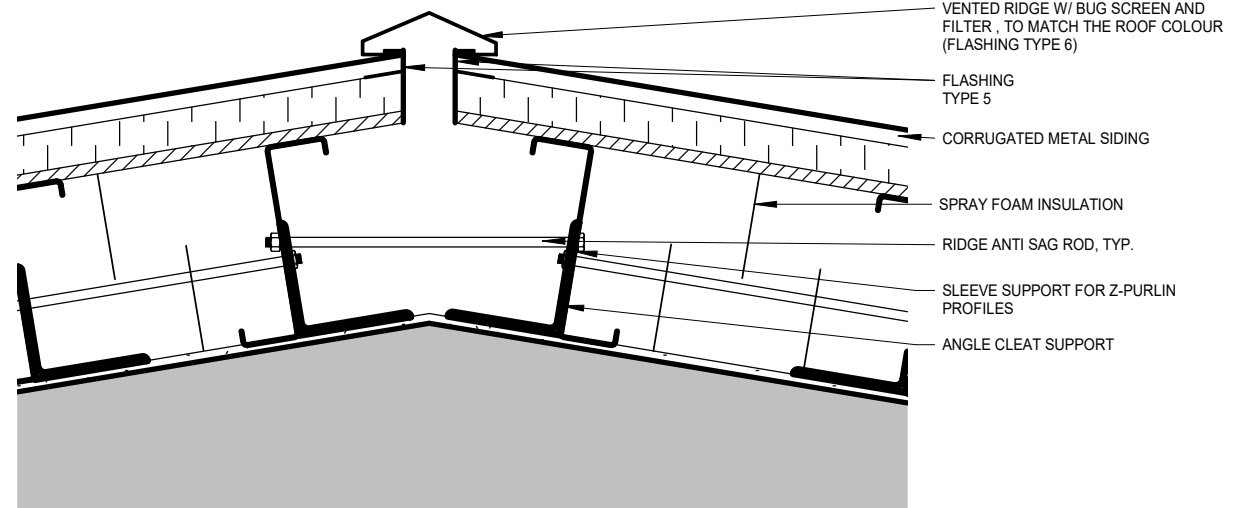


**2** DUCT OPENING BLOCKING DETAIL  
1:5



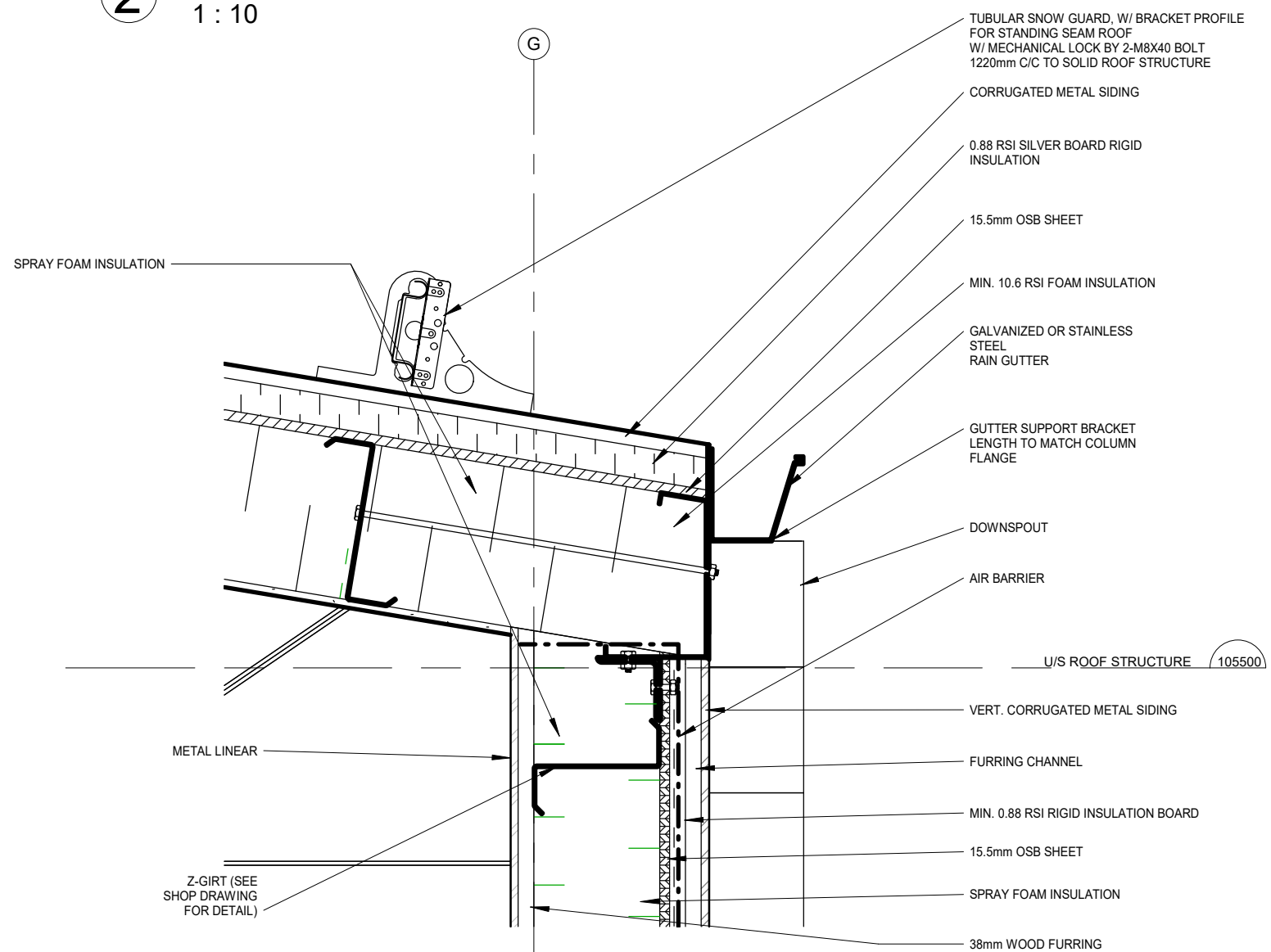
**1 PARTIAL WALL SECTION-DETAIL**

1 : 10



**2 ROOF RIDGE-DETAIL**

1 : 10



**3 EAVES BEAM DETAIL-STEEL FRAME ROOF EDGE**

1 : 10



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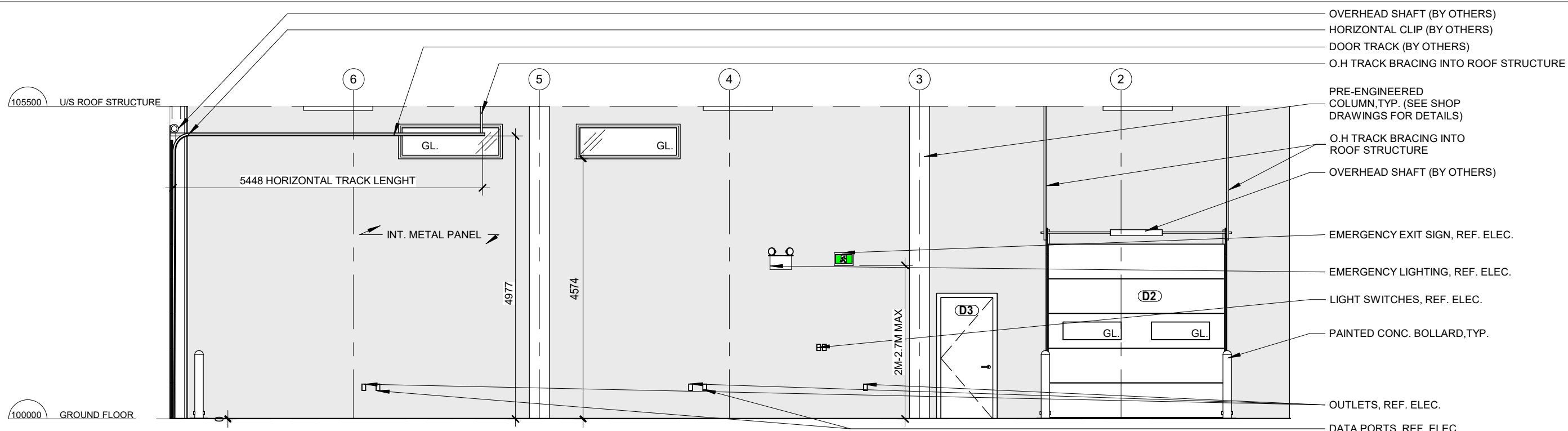




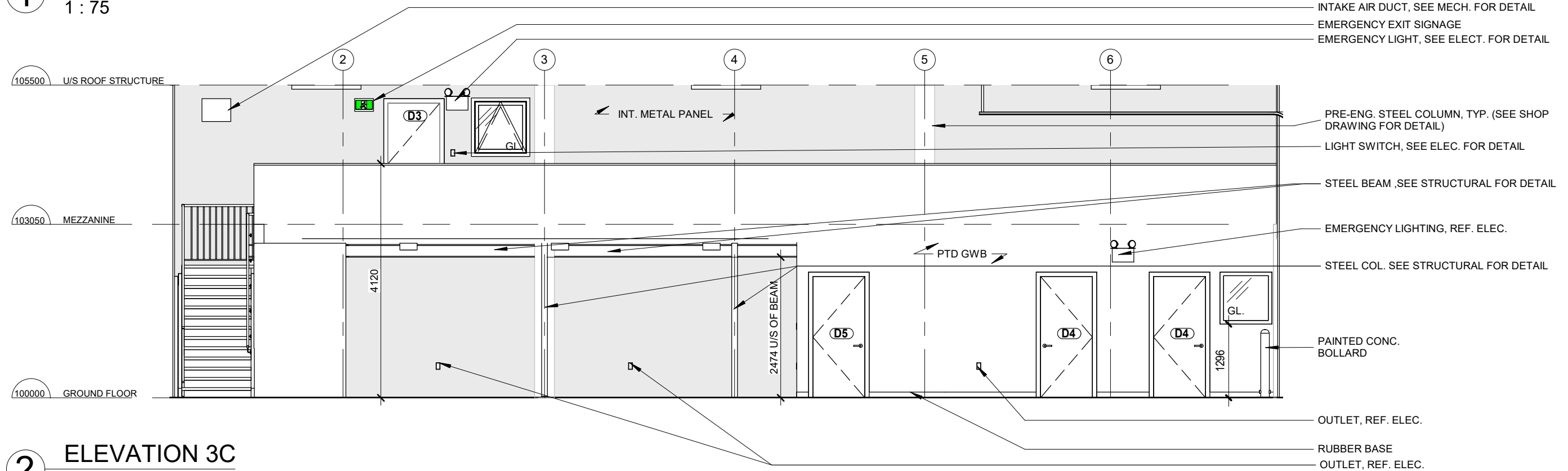








1 ELEVATION 3B  
1 : 75



2 ELEVATION 3C  
1 : 75

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**Plan-Eng**  
consulting inc  
ELECTRICAL ENGINEERING

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PERMIT No. 011  
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DRAWING

INTERIOR  
ELEVATIONS

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWN
RWG	LM
PROJECT	<b>A501</b>
21109	
SCALE	1 : 75





PROJECT  
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DRAWING

**MILLWORK  
DETAIL-KITCHEN**

DO NOT SCALE FOR DIMENSIONS

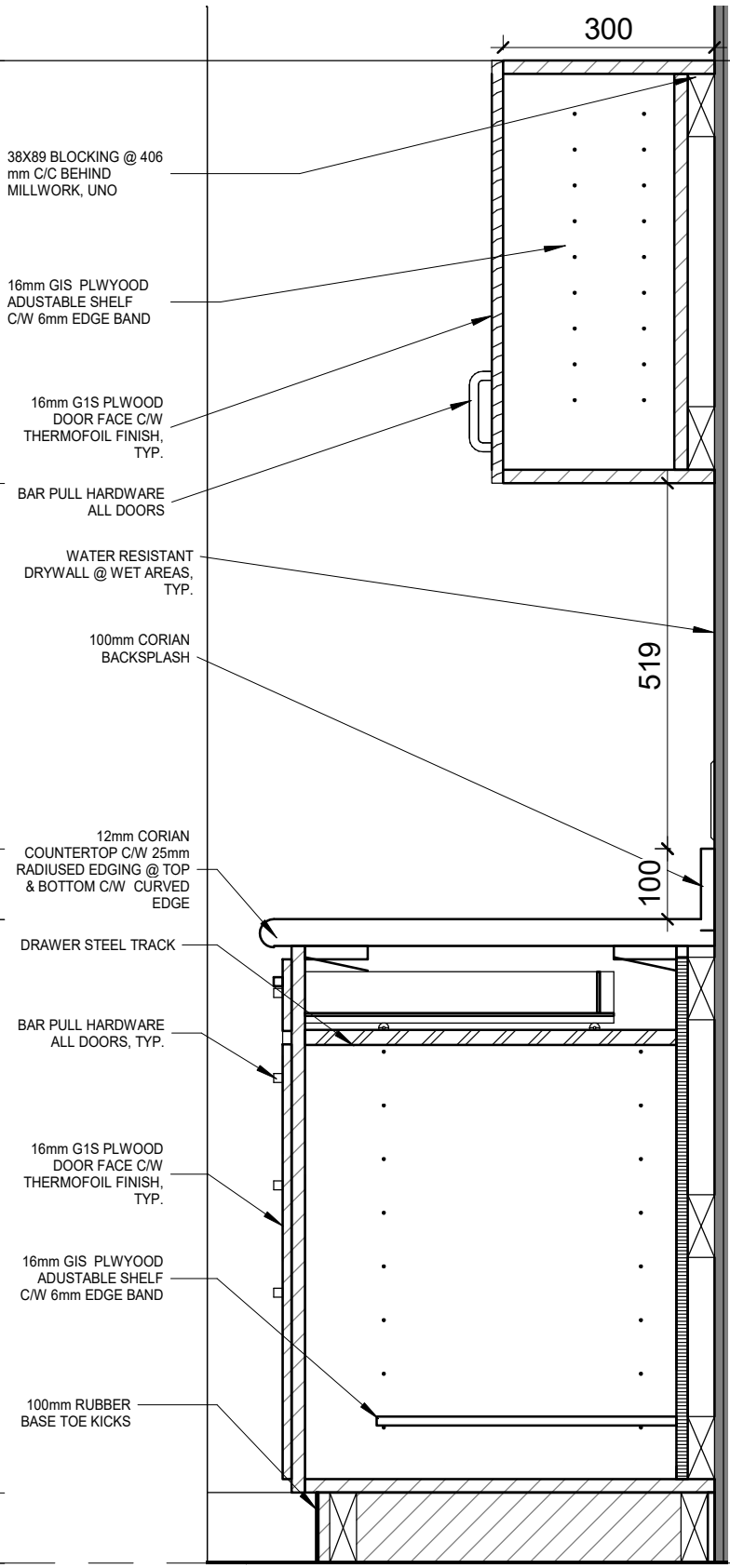
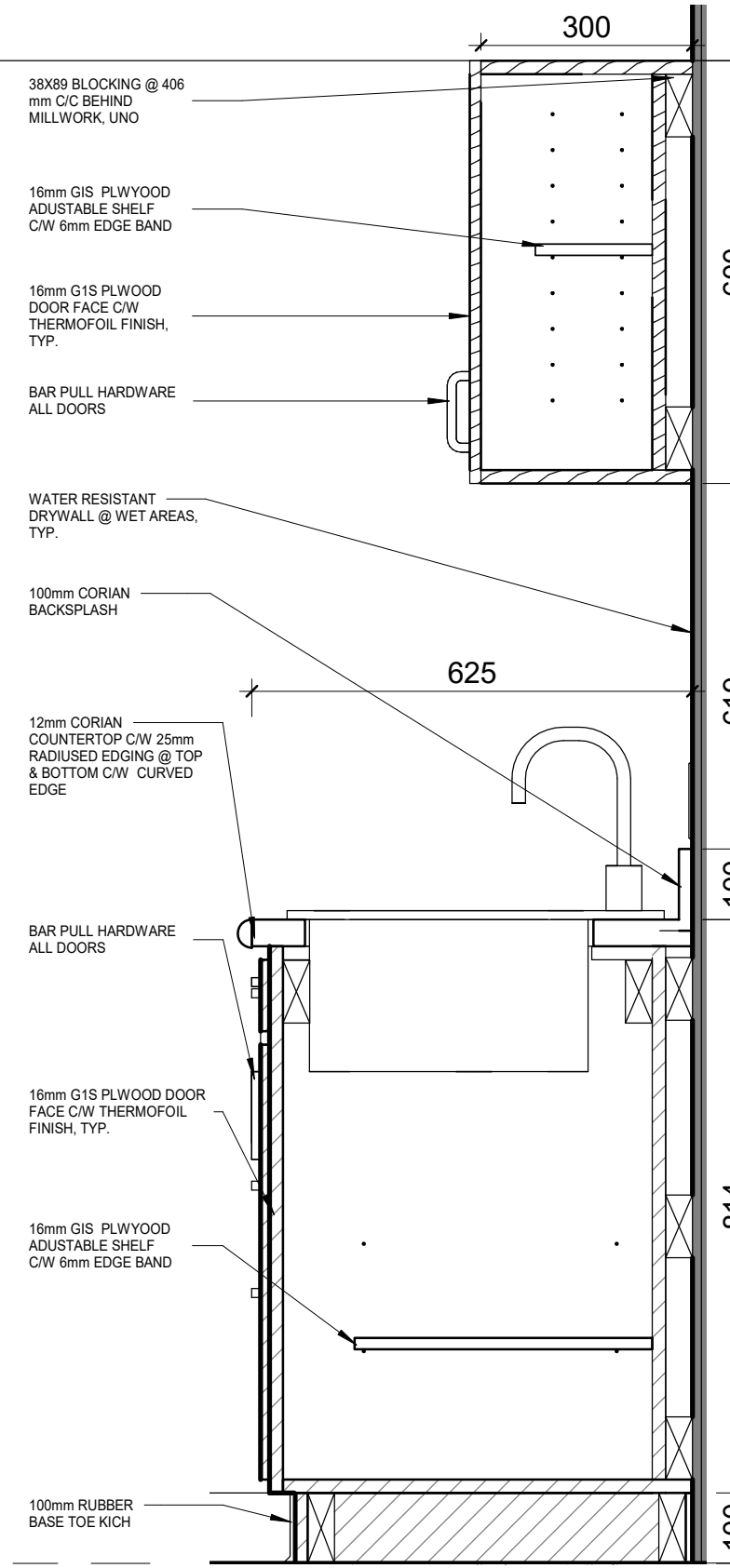
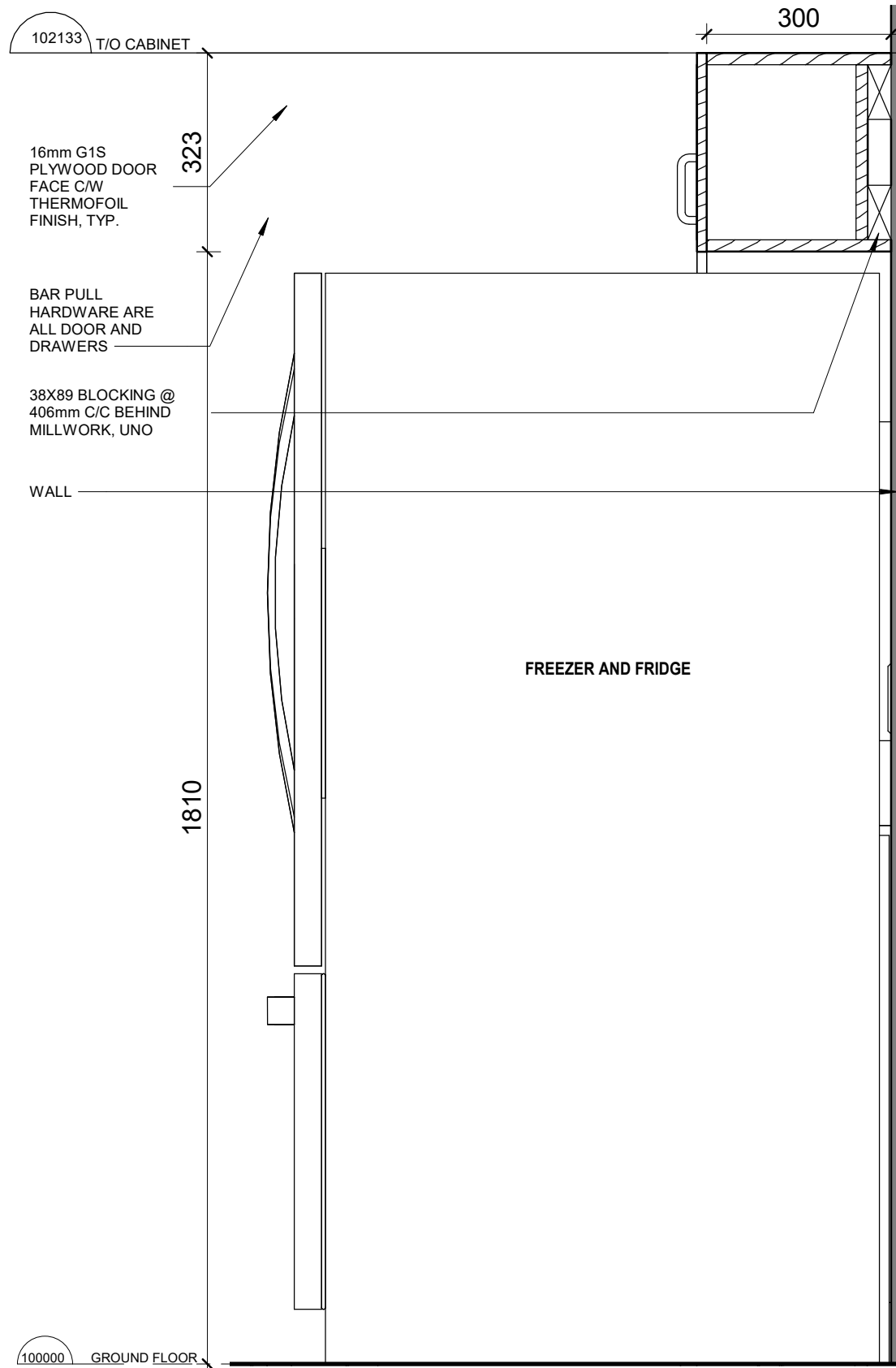
DESIGN  
RWG

DRAWN  
YA

PROJECT  
21109

SCALE  
1 : 10

**A503**



**1** KITCHEN MILLWORK 1  
1 : 10

**2** KITCHEN MILLWORK 2  
1 : 10

**3** KITCHEN MILLWORK 3  
1 : 10

100000 GROUND FLOOR

102133 T/O CABINET

FREEZER AND FRIDGE

16mm G1S  
PLYWOOD DOOR  
FACE C/W  
THERMOFOIL  
FINISH, TYP.

BAR PULL  
HARDWARE ARE  
ALL DOOR AND  
DRAWERS

38X89 BLOCKING @  
406mm C/C BEHIND  
MILLWORK, UNO

WALL

38X89 BLOCKING @ 406  
mm C/C BEHIND  
MILLWORK, UNO

16mm GIS PLWYOOD  
ADJUSTABLE SHELF  
C/W 6mm EDGE BAND

16mm G1S PLWOOD  
DOOR FACE C/W  
THERMOFOIL FINISH,  
TYP.

BAR PULL HARDWARE  
ALL DOORS

WATER RESISTANT  
DRYWALL @ WET AREAS,  
TYP.

100mm CORIAN  
BACKSPLASH

12mm CORIAN  
COUNTERTOP C/W 25mm  
RADIUSED EDGING @ TOP  
& BOTTOM C/W CURVED  
EDGE

BAR PULL HARDWARE  
ALL DOORS

16mm G1S PLWOOD DOOR  
FACE C/W THERMOFOIL  
FINISH, TYP.

16mm GIS PLWYOOD  
ADJUSTABLE SHELF  
C/W 6mm EDGE BAND

100mm RUBBER  
BASE TOE KICK

38X89 BLOCKING @ 406  
mm C/C BEHIND  
MILLWORK, UNO

16mm GIS PLWYOOD  
ADJUSTABLE SHELF  
C/W 6mm EDGE BAND

16mm G1S PLWOOD  
DOOR FACE C/W  
THERMOFOIL FINISH,  
TYP.

BAR PULL HARDWARE  
ALL DOORS

WATER RESISTANT  
DRYWALL @ WET AREAS,  
TYP.

100mm CORIAN  
BACKSPLASH

12mm CORIAN  
COUNTERTOP C/W 25mm  
RADIUSED EDGING @ TOP  
& BOTTOM C/W CURVED  
EDGE

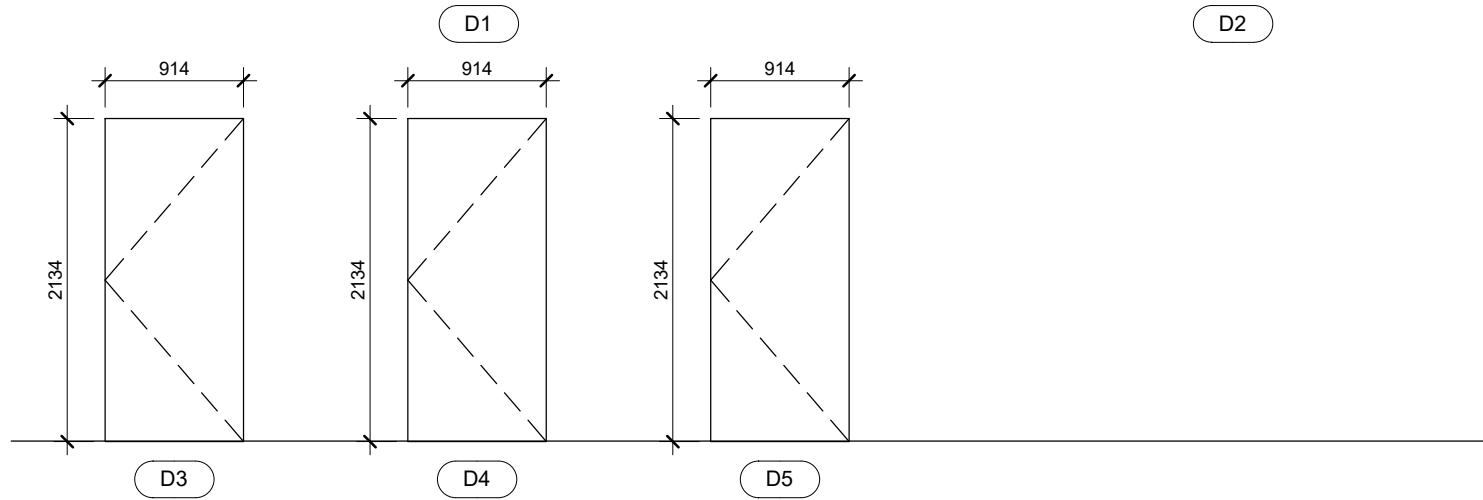
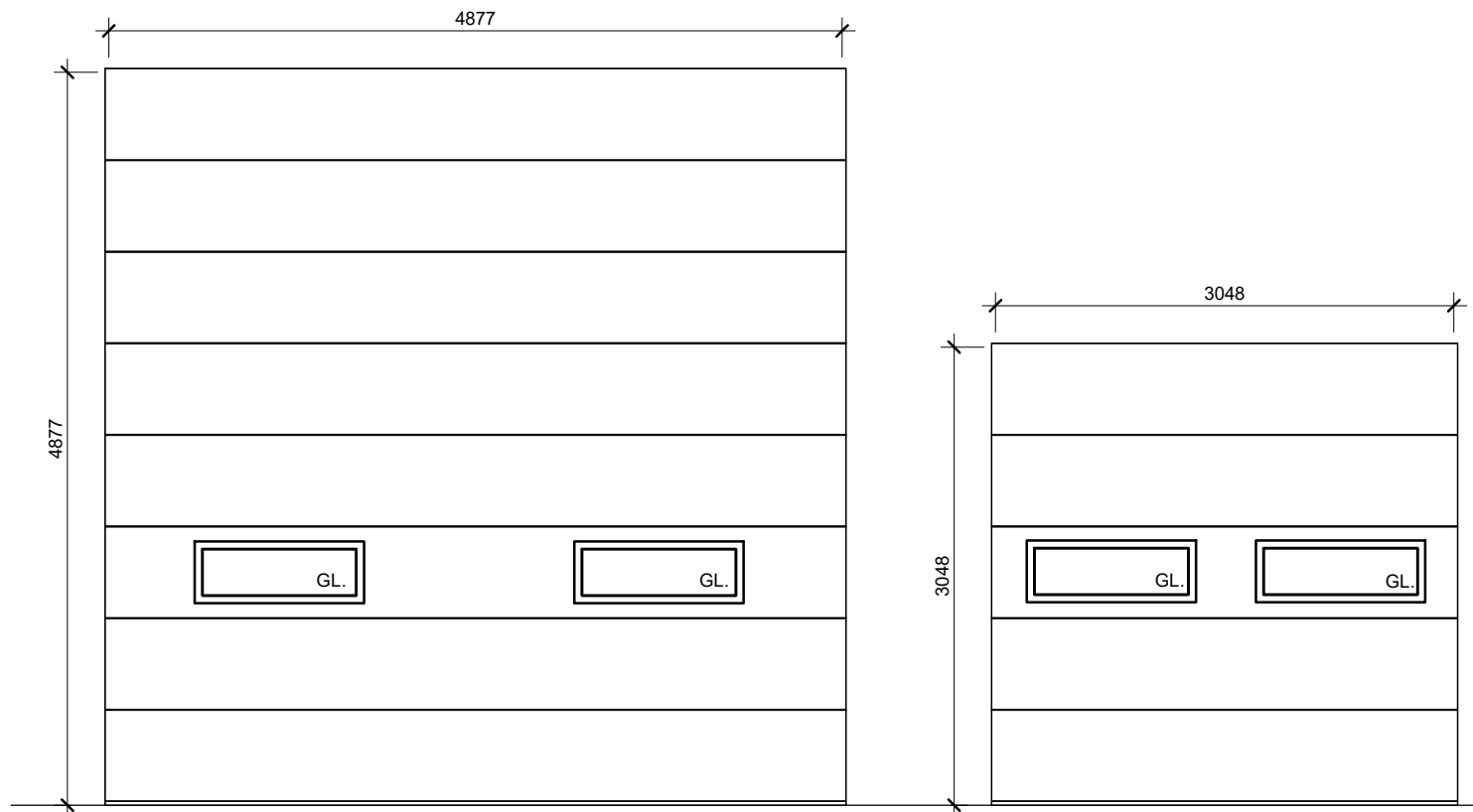
DRAWER STEEL TRACK

BAR PULL HARDWARE  
ALL DOORS, TYP.

16mm G1S PLWOOD  
DOOR FACE C/W  
THERMOFOIL FINISH,  
TYP.

16mm GIS PLWYOOD  
ADJUSTABLE SHELF  
C/W 6mm EDGE BAND

100mm RUBBER  
BASE TOE KICKS



**DOOR LEGEND**  
1 : 50

**WINDOW LEGEND**  
1 : 50

DOOR SCHEDULE						
TYPE	DIMENSIONS		FRR	FRAME	OPERATION	COMMENTS
	WIDTH	HEIGHT				
D1	4877	4877	N/A	PSF	OVERHEAD, STANDARD LIFT, MANUAL AND AUTOMATIC OPERATED	WINDOW SIZE TO BE SPECIFIED BY MANF.
D2	3048	3048	N/A	PSF	OVERHEAD, STANDARD LIFT, MANUAL AND AUTOMATIC OPERATED	WINDOW SIZE TO BE SPECIFIED BY MANF.
D3	914	2134	N/A	TB PSF	SWING, REF. A102 FOR DIRECTION	
D4	914	2134	N/A	PSF	SWING, REF. A102 FOR DIRECTION	
D5	914	2134	45 MIN.	45 MIN. PSF	SWING, REF. A102 FOR DIRECTION	

WINDOW SCHEDULE			
TYPE	DIMENSIONS		OPERATION
	WIDTH	HEIGHT	
A	914	914	AWNING
B	1829	610	FIXED
C	914	914	FIXED



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DRAWING  
**DOOR & WINDOW  
SCHEDULE**

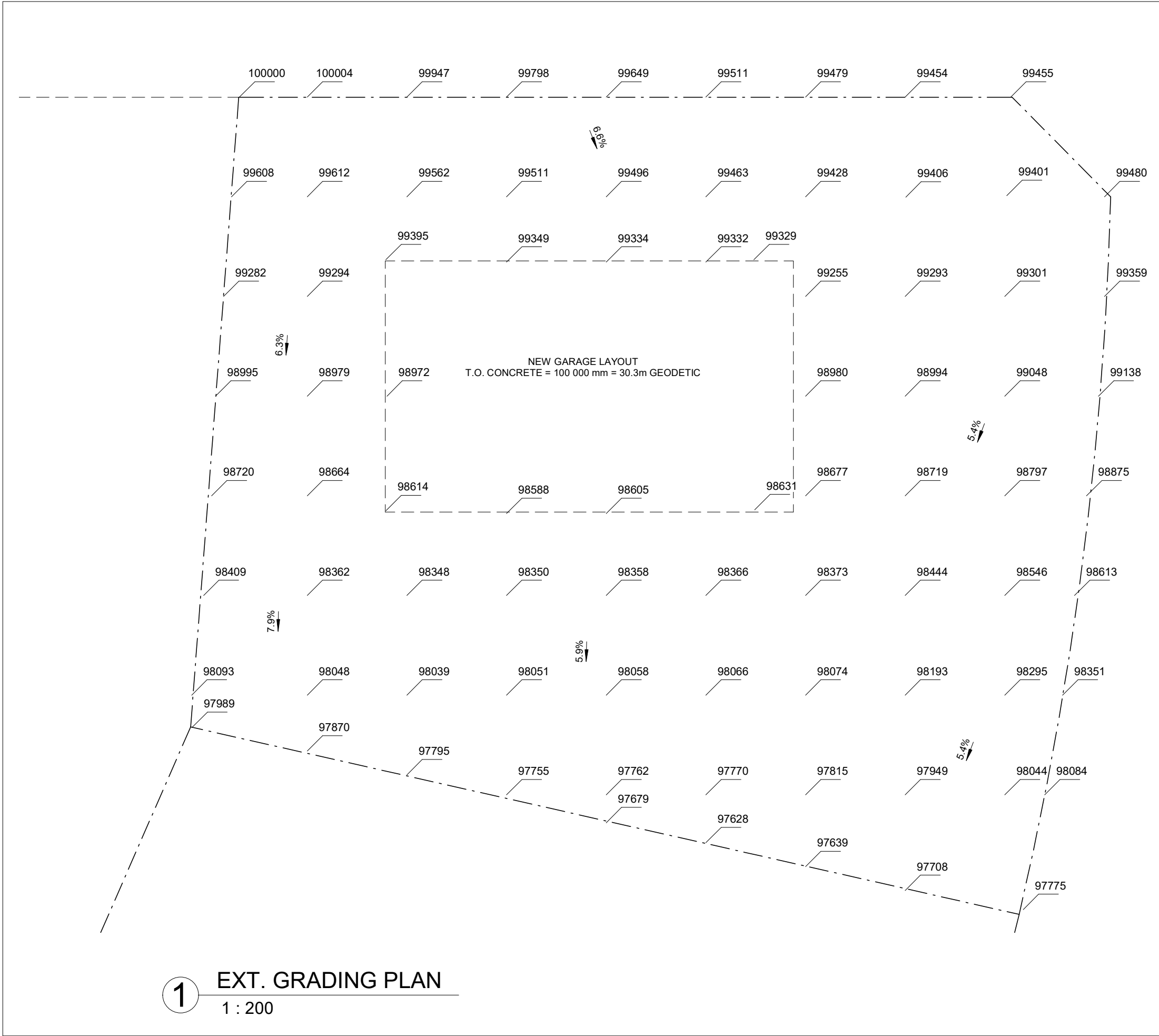
DO NOT SCALE FOR DIMENSIONS

DESIGN RWG	DRAWN LM/YA
PROJECT 21109	<b>A600</b>
SCALE 1 : 50	









NOTES:  
- THE EXISTING TOPOGRAPHICAL PLAN IS BASED ON PLANS FROM "GOVERNMENT OF NUNAVUT COMMUNITY & GOVERNMENT SERVICES PLANNING & LANDS DIVISION" WEBSITE



PERMIT TO PRACTICE  
GUY ARCHITECTS LTD.  
Signature *[Signature]*  
Date April 26, 2022  
PERMIT NUMBER: P 840  
NTNU Association of Professional Engineers and Geoscientists



PROJECT  
**QANP OPERATIONS GARAGE**

RESOLUTE, NU

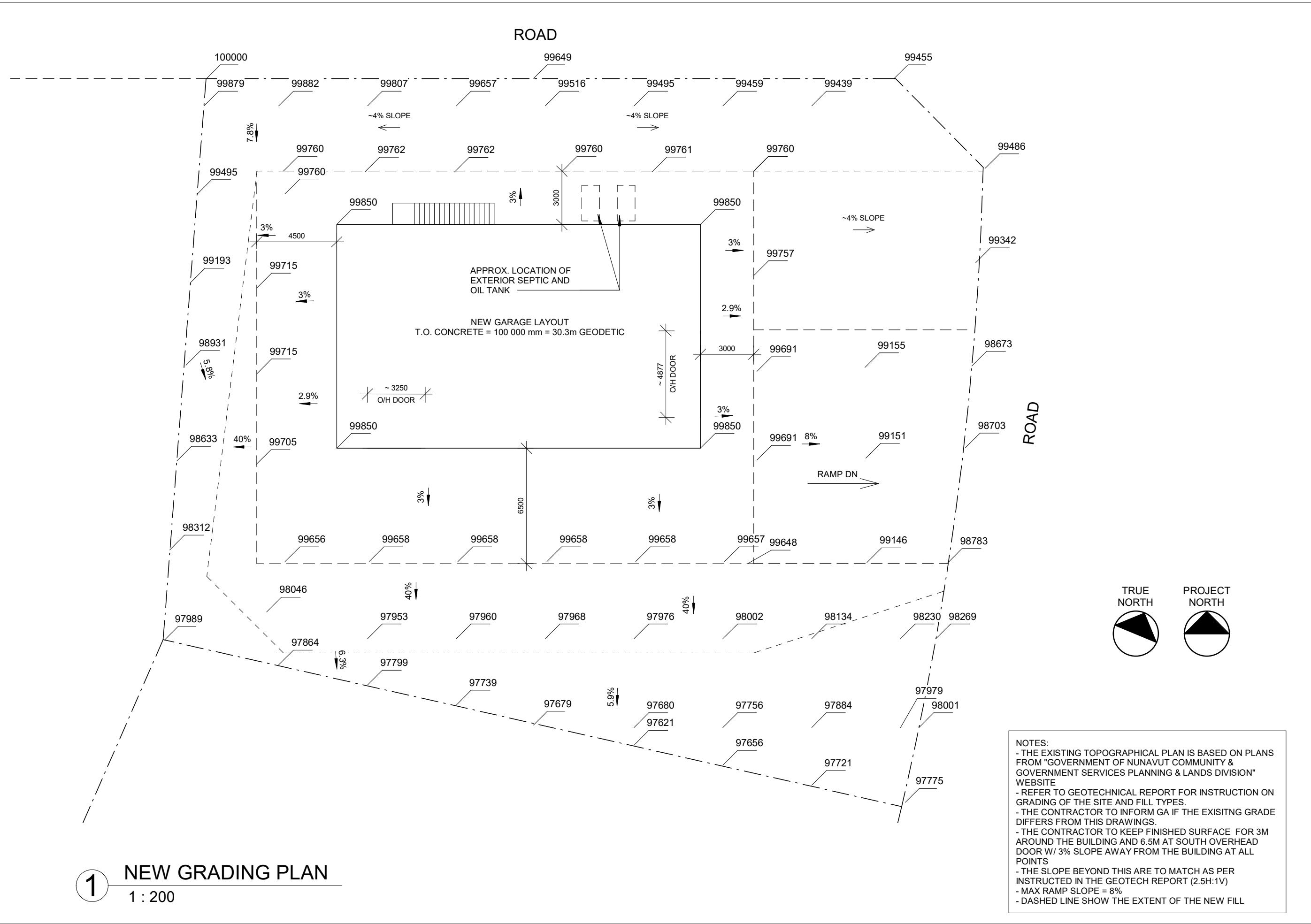
No.	DATE	ISSUED FOR
2	04/05/2022	IFT REVISION

DRAWING  
**EXISTING GRADING PLAN**

DO NOT SCALE FOR DIMENSIONS

DESIGN RWG	DRAWN AP
PROJECT 21109	<b>C101</b>
SCALE 1 : 200	

**1** EXT. GRADING PLAN  
1 : 200



**1** **NEW GRADING PLAN**  
1 : 200

NOTES:  
 - THE EXISTING TOPOGRAPHICAL PLAN IS BASED ON PLANS FROM "GOVERNMENT OF NUNAVUT COMMUNITY & GOVERNMENT SERVICES PLANNING & LANDS DIVISION" WEBSITE  
 - REFER TO GEOTECHNICAL REPORT FOR INSTRUCTION ON GRADING OF THE SITE AND FILL TYPES.  
 - THE CONTRACTOR TO INFORM GA IF THE EXISTING GRADE DIFFERS FROM THIS DRAWINGS.  
 - THE CONTRACTOR TO KEEP FINISHED SURFACE FOR 3M AROUND THE BUILDING AND 6.5M AT SOUTH OVERHEAD DOOR W/ 3% SLOPE AWAY FROM THE BUILDING AT ALL POINTS  
 - THE SLOPE BEYOND THIS ARE TO MATCH AS PER INSTRUCTED IN THE GEOTECH REPORT (2.5H:1V)  
 - MAX RAMP SLOPE = 8%  
 - DASHED LINE SHOW THE EXTENT OF THE NEW FILL

**GUY ARCHITECTS**  
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**PERMIT TO PRACTICE**  
**GUY ARCHITECTS LTD.**  
 Signature: [Signature]  
 Date: April 25, 2022  
**PERMIT NUMBER: P 840**  
 NTAU Association of Professional Engineers and Geoscientists



NOT FOR CONSTRUCTION

PROJECT  
**QANP OPERATIONS GARAGE**

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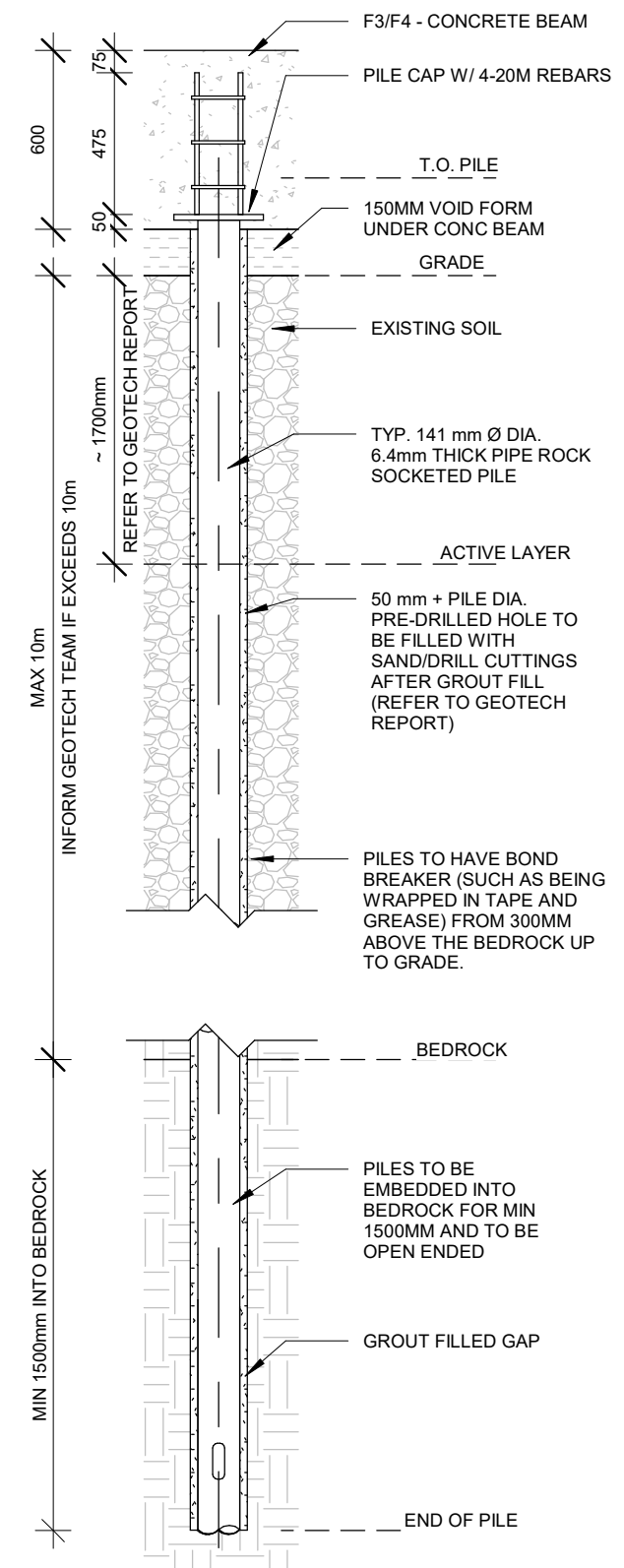
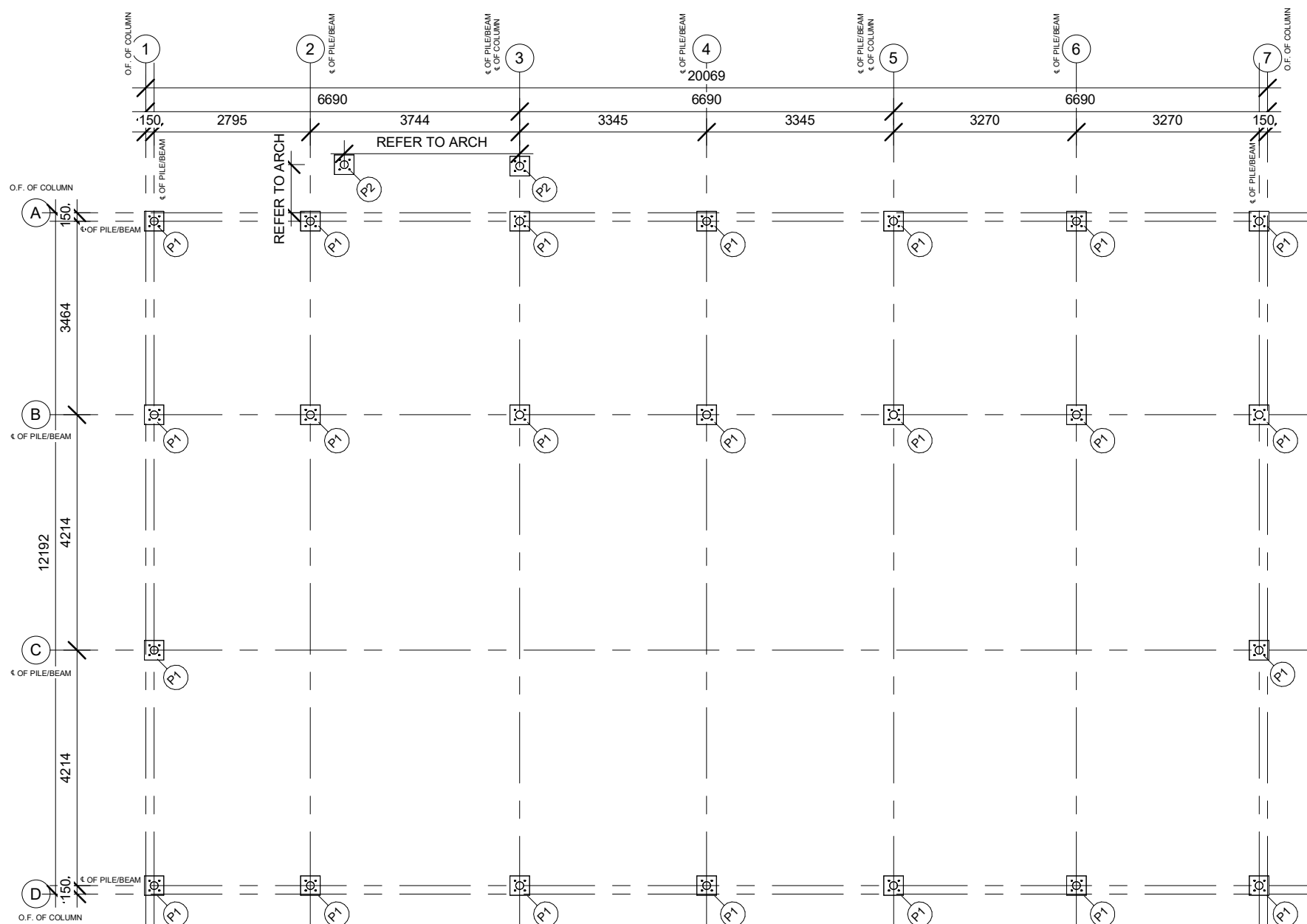
DD/MM/YY

DRAWING  
**NEW GRADING PLAN**

DO NOT SCALE FOR DIMENSIONS

DESIGN RWG	DRAWN AP
PROJECT 21109	<b>C102</b>
SCALE 1 : 200	





**P1: ROCK SOCKET STEEL PIPE PILES**

- REFER TO GEOTECHNICAL REPORT PREPARED BY ABG. DATED NOVEMBER 24, 2021, FILE NO: RES-G2102

- Ø 141mm DIA. 6.4mm THICK ROCK SOCKETED PILE DRILLED AND GROUTED INTO BEDROCK MIN 1500mm.

- TO FORM BOND BREAKER, PILES TO BE WRAPPED IN TAPE AND GREASE FROM 300mm ABOVE THE ROCK SOCKET BOND ZONE, TO U/S OF CONCRETE. IF ANY OTHER BOND BREAKER IS USED, THE CONTRACTOR TO INFORM ABG FOR APPROVAL.

- W/ 350X350X19mm PILE CAP WELDED AT TOP OF PILES WITH 4-20M REBARS (L=475mm) WELDED AT TOP OF THE PLATE. TO BE EMBEDDED IN CONCRETE AS SHOWN.

**P1: ROCK SOCKET PILES FOR EXTERIOR STAIRWAY**

ALL SAME AS P1 EXCEPT:

- USE 452X452X19mm PILE CAP W/ HOLES FOR 4-20mm Ø DIA BOLTS TO GET FIXED TO C5 COLUMNS/ BASE PLATE INSTEAD OF 20M REBARS.

**NOTES:**

- FOR ALL PILE INSTALLATION PROCESS AND INSTRUCTION INCLUDING GROUTING AND INSTALLATION MONITORING REFER TO THE GEOTECH REPORT.

- ALL STRUCTURAL COMPONENTS OF MAIN STRUCTURE ABOVE FOUNDATION ARE ENGINEERED BY OTHERS.

- ALL STEEL COLUMNS LOCATIONS, SIZES AND NUMBERS ARE APPROXIMATE. REFER TO SUPERSTRUCTURE MANUFACTURER'S SHOP DRAWINGS AND ARCH FOR DETAILS.

- THE SUPERSTRUCTURE SHOP DRAWING WAS NOT PROVIDED AT THE TIME OF THE FOUNDATION DESIGN. THE OWNER/CONTRACTOR TO PROVIDE SHOP DRAWINGS TO GA FOR REVIEW BEFORE CONSTRUCTION.

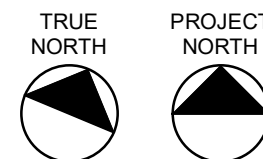
- FOR LOCATION OF THE CATCH BASIN ON THE SLAB REFER TO ARCH.

- FOR SLOPE TO CATCH BASIN REFER TO ARCH AND MECH. SLAB THICKNESS TO BE MAINTAINED AT MIN 152mm AT ALL LOCATIONS.

- FOR CATCH BASIN DETAIL AND INSTALLATION METHOD REFER TO MECH AND MANUFACTURER'S MANUAL

- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS

- ALL C1/C2/C3/C5 COLUMNS AND BASE PLATES TO BE ALIGNED RIGHT ON TOP OF PILES.



PERMIT TO PRACTICE  
GUY ARCHITECTS LTD.

Signature: [Signature]  
Date: April 26, 2022  
PERMIT NUMBER: P 840  
NTNU Association of Professional  
Engineers and Geoscientists



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PROJECT  
**QANP  
OPERATIONS  
GARAGE**

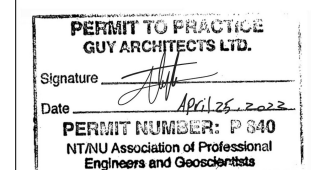
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DRAWING

PILE LAYOUT

DO NOT SCALE FOR DIMENSIONS

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PROJECT 21109	<b>S101</b>
SCALE As indicated	



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**QANP  
OPERATIONS  
GARAGE**

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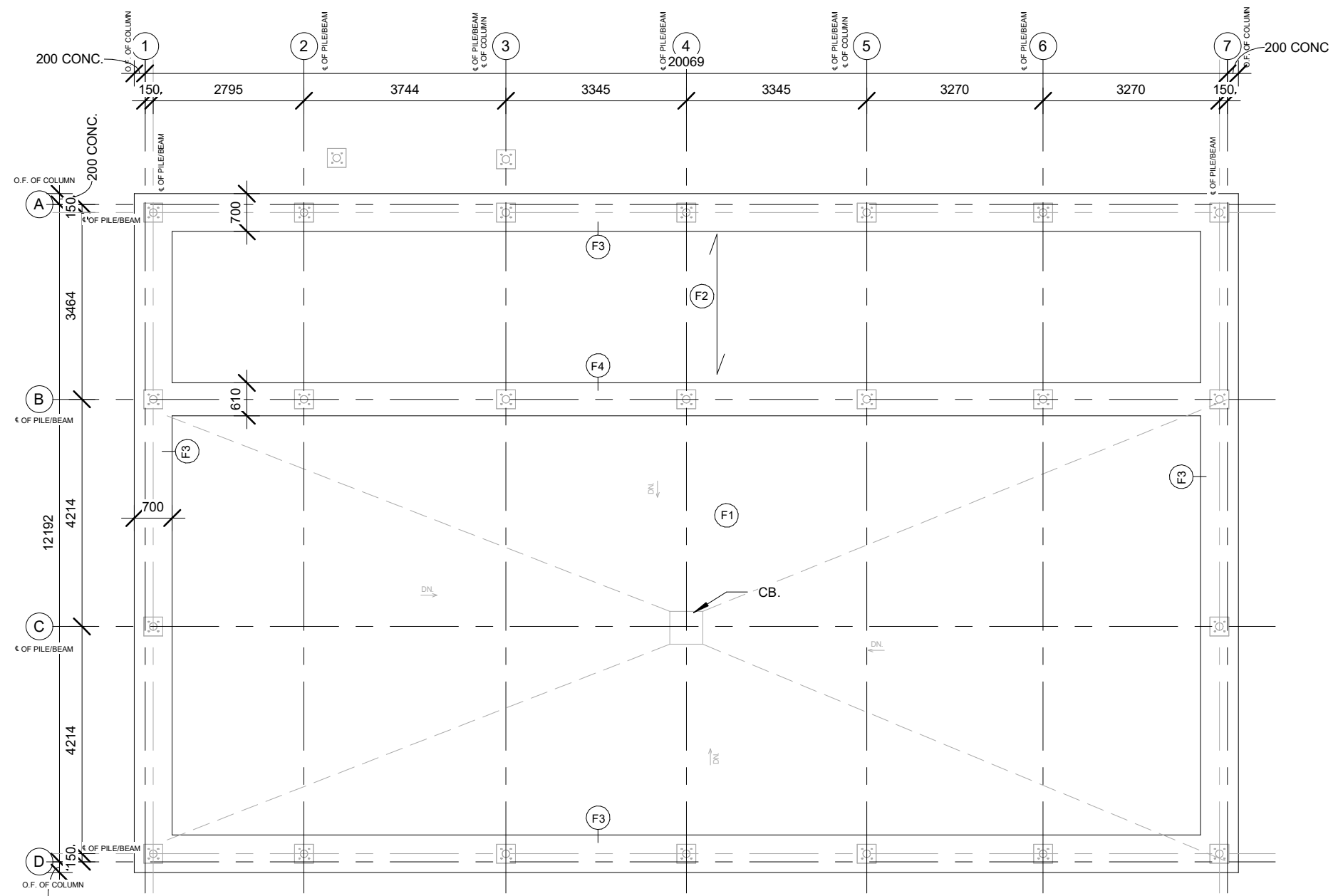
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**FOUNDATION**

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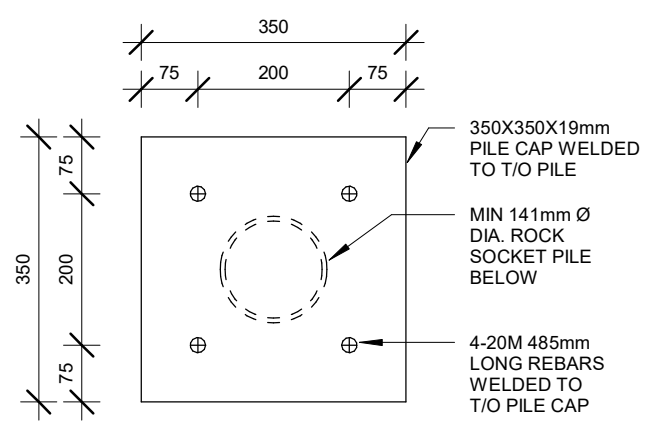
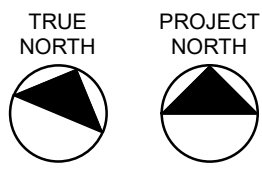
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PROJECT  
21109  
SCALE  
As indicated  
**S102**

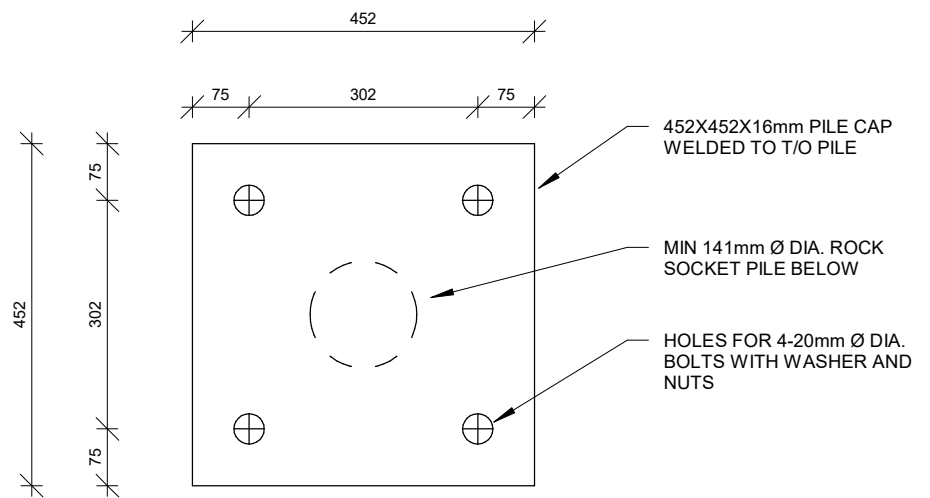


- F1: REINFORCED SLAB ON GRADE**  
 - 150mm THICK HEATED SLAB. THICKNESS TO BE MAINTAINED AT ALL LOCATIONS  
 - W/ 300X300mm THICKENED EDGES AT PERIMETER W/ 2-15M REBAR AT BOTTOM AS SHOWN  
 - W/ FLEXCEL BETWEEN SLAB THICKENED EDGE AND F3 BEAMS  
 - W/ 10M REBARS @ 300mm O/C BOTH DIRECTIONS  
 - 10M REBARS TO CONTINUE INTO THICKENED EDGES AS SHOWN  
 - W/ HEATING PIPES ON TOP OF REBARS. REFER TO MECH. MIN 50mm CONCRETE COVER FOR PIPES.  
 - W/ CONTROL JOINTS @ BOTH DIRECTIONS AT MAX 3000mm O/C  
 - P.E SEALED CONTINUOUS MOISTURE BARRIER UNDER CONCRETE  
 - 150mm THICK HI-40 RIGID XPS INSULATION UNDER SLAB  
 - MIN 300mm LAYER OF 100% ± 2 COMPACTED TYPE-1/TYPE-2 GRANULAR FILL UNDER SLAB
- F2: ONE-WAY REINFORCED SLAB**  
 - 150mm THICK HEATED SLAB. THICKNESS TO BE MAINTAINED AT ALL LOCATIONS.  
 - SUPPORTED BETWEEN F3 & F4 BEAMS AT GL A & B  
 - W/ 15M REBARS @ 250mm O/C BOTH DIRECTIONS  
 - CONTINUE 15M REBARS INTO F3/F4 BEAMS AS SHOWN  
 - W/ 1550mm LONG ADDITIONAL 15M @ 300mm O/C AT TOP AT SLAB TO BEAM CONNECTION AS SHOWN  
 - W/ HEATING PIPES ON TOP OF REBARS. REFER TO MECH.  
 - P.E SEALED CONTINUOUS MOISTURE BARRIER UNDER CONCRETE  
 - 150mm THICK HI-40 RIGID XPS INSULATION UNDER SLAB  
 - 150mm VOID FORM UNDER RIGID FOAM  
 - MIN 300mm LAYER OF 100% ± 2 COMPACTED TYPE-1/TYPE-2 GRANULAR FILL UNDER SLAB
- F3: REINFORCED CONCRETE GRADE BEAM AT PERIMETER**  
 - 700mmX600mm GRADE BEAM AT PERIMETER  
 - 5-20M REBARS AT TOP AND BOTTOM  
 - 10M STIRRUP @ 150mm O/C AT FIRST 1000mm FROM EACH PILE AND 300mm O/C IN BETWEEN (AS SHOWN)  
 - MIN 75mm CONCRETE COVER AT ALL SIDES  
 - 150mm THICK VOID FORM UNDER BEAM  
 - 150mm XPS HD40 AT EXTERIOR FACE OF BEAM  
 - 50mm THICK RIGID INSULATION TO BE EXTENDED AWAY FROM THE FOUNDATION FOR MIN 1200mm  
 - 10mm P.E SEALED CONTINUOUS MOISTURE BARRIER UNDER CONCRETE  
 - MIN 300mm LAYER OF 100% ± 2 COMPACTED TYPE-1/TYPE-2 GRANULAR FILL UNDER BEAM
- F4: REINFORCED CONCRETE GRADE BEAM**  
 - 600mmX600mm GRADE BEAM AT PERIMETER  
 - 4-20M REBARS AT TOP AND BOTTOM  
 - 10M STIRRUP @ 150mm O/C AT FIRST 1000mm FROM EACH PILE AND 300mm O/C IN BETWEEN (AS SHOWN)  
 - MIN 75mm CONCRETE COVER AT ALL SIDES  
 - 150mm THICK VOID FORM UNDER BEAM  
 - 150mm XPS HD40 AT EXTERIOR FACE OF BEAM  
 - P.E SEALED CONTINUOUS MOISTURE BARRIER UNDER CONCRETE  
 - MIN 300mm LAYER OF 100% ± 2 COMPACTED TYPE-1 GRANULAR FILL UNDER BEAM

**1 FOUNDATION PLAN**  
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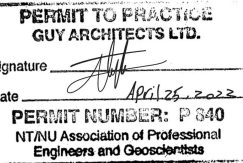


**2 TYP. P1-PILE CAP**  
1 : 10



**3 TYP. P2-PILE CAP**  
1 : 10

**NOTES:**  
 - FOR THE SIZE AND LOCATION OF THE STEEL COLUMNS REFER TO SUPERSTRUCTURE'S SHOP DRAWINGS AND ARCH.  
 - CL OF C1, C2, C3 AND THEIR BASE PLATE TO BE ALIGNED WITH CL OF PILES AND GRADE BEAMS BELOW.  
 - FOR LOCATION OF THE CATCH BASIN REFER TO ARCH & MECH.  
 - ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS



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MAIN FLOOR PLAN

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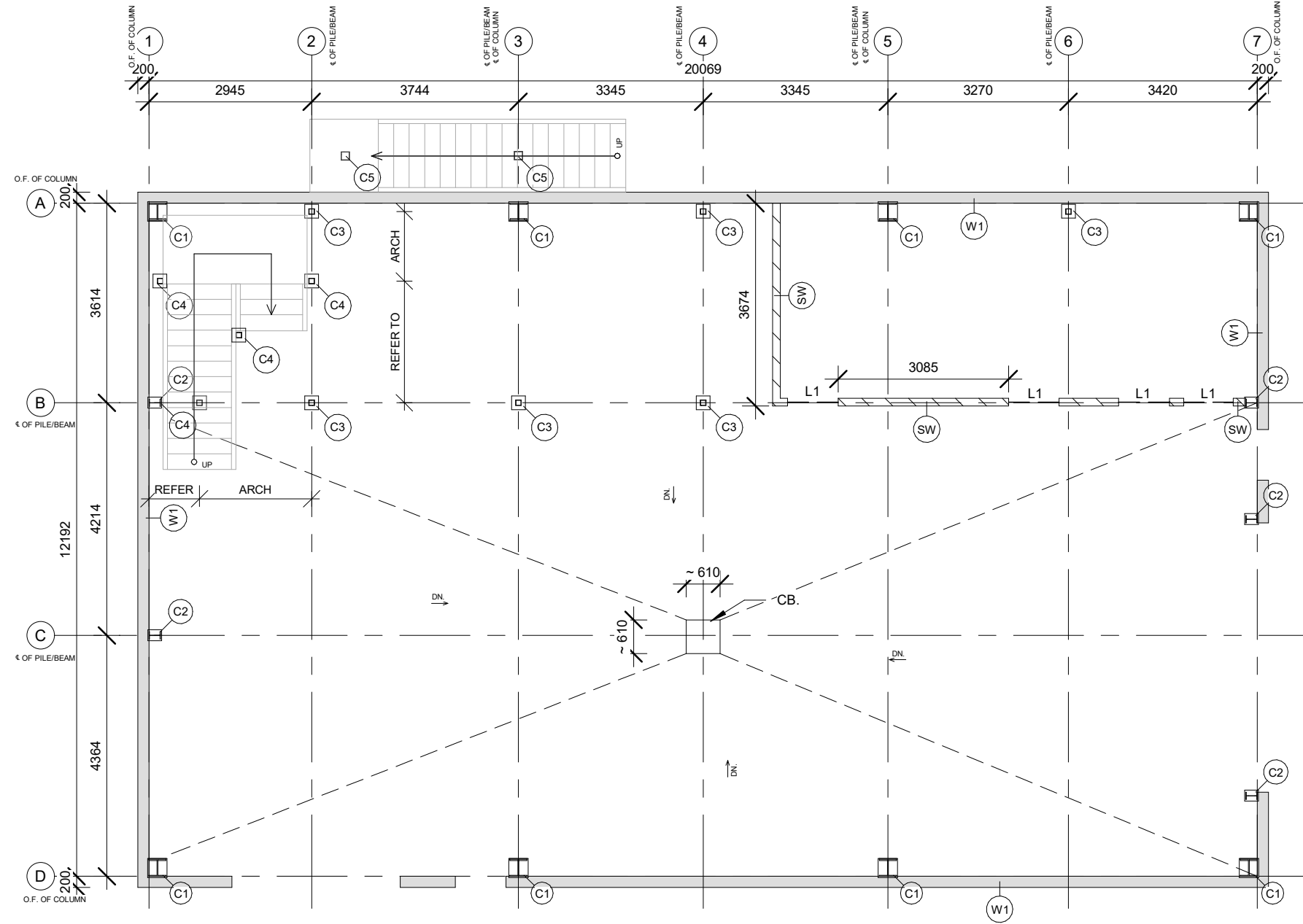
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PROJECT  
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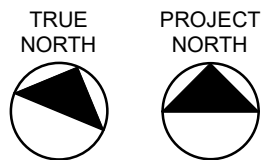
SCALE

S103

1 : 100



**1** MAIN FLOOR PLAN & FRAMING  
1 : 100



**C1 & C2: MAIN AND SECONDARY COLUMNS (BY OTHERS)**  
 - REFER TO MANUFACTURER'S SHOP DRAWINGS FOR SIZE, LOCATION, AND MORE DETAILS.  
 - BASE PLATE AND ANCHOR ROD SPECIFICATION BY THE MANUFACTURER.  
 - ANCHOR RODS TO BE HEADED RODS OR THREADED RODS WITH A HEX NUT ON THE EMBEDDED END  
 - SINCE THE SHOP DRAWINGS ARE NOT PROVIDED AT THE TIME OF DESIGN OF FOUNDATION AND INTERIOR STRUCTURE, CONSIDER AT LEAST 525mm OF EMBEDMENT DEPTH FOR ANCHOR RODS INTO CONCRETE.  
 - ALIGN CL OF COLUMN AND BASE PLATE WITH CL OF GRADE BEAM AND PILE BELOW.

**C3: MEZZANINE COLUMNS**  
 - HSS 102X102X6.4mm COLUMNS  
 - USE 250X250X16mm BASE PLATE W/ HOLES FOR 4-16mm Ø DIA. WEDGE/CAST-IN ANCHOR BOLTS. MIN L=150mm  
 - ALIGN CL OF COLUMN AND BASE PLATE WITH CL OF GRADE BEAM AND PILE BELOW.  
 - AT GL B, W/ 300X200X16mm POST CAP PLATE WELDED AT TOP W/ HOLES FOR 4-16mm Ø DIA. BOLTS W/ WASHER AND NUTS TO SECURE B1 BEAM ABOVE

**C4: STAIRWAY/LANDING COLUMNS**  
 - HSS 102X102X6.4mm COLUMNS  
 - USE 250X250X16mm BASE PLATE W/ HOLES FOR 4-16mm Ø DIA. WEDGE/CAST-IN ANCHOR BOLTS. MIN L=100mm

**C5: EXTERIOR STAIRWAY COLUMNS**  
 - HSS 152X152X9.5mm COLUMNS  
 - WELDED TO 452X452X16mm BASE PLATE W/ HOLES FOR 4-20mm Ø DIA. BOLTS W/ WASHER AND NUT TO GET FIXED TO PILE CAP BELOW.  
 - W/ GUSSET PLATES AS SHOWN.  
 - W/ 300X200X16mm POST CAP PLATE WELDED AT TOP W/ HOLES FOR 4-16mm Ø DIA. BOLTS W/ WASHER AND NUTS TO SECURE B1/B3 BEAM ABOVE

**W1: EXTERIOR WALLS (BY OTHERS)**  
 - REFER TO MANUFACTURER'S SHOP DRAWINGS FOR DETAILS.  
 - ALL STRUCTURAL COMPONENTS BY THE MANUFACTURER INCLUDING HEADERS, BRACING, SHEATHING AND ETC.

**SW: INTERIOR LOADBEARING WALL**  
 - LOAD BEARING WALL W/ 600S200-43 18GA FOR STUD @ 400 mm o/c AND 600T200-43 TRACKS 18GA  
 - W/ 2PLY STUDS AT ENDS AND CORNERS AND AT OPENINGS  
 - BOTTOM TRACK TO BE BOLTED TO CONCRETE WITH MIN 13mm Ø DIA. WEDGE/ANCHOR BOLTS @ MAX 610mm O/C  
 - USE HOLDDOWNS ANCHORED TO CONCRETE AT END, OPENING AND CORNER STUDS  
 - 2 ROWS OF HORIZONTAL BLOCKING BTW STUDS @ MAX 1200MM AND EQ. DISTANCE FROM TOP AND BOTTOM PLATES  
 - MIN 16MM GWB AT SIDES WITH:  
 FASTENERS @ 76 mm AT PANEL EDGES  
 FASTENERS @ 203 mm AT INTERMEDIATE SUPPORTS  
 - REFER TO ARCH FOR MORE DETAILS  
 - USE DOUBLE 38X140MM TOP PT ON TOP TRACK BOLTED TO TOP TRACK WITH MIN 13MM Ø DIA. BOLTS WITH WASHER AND NUT @ MAX 600MM O/C

**L1: HEADERS IN LOADBEARING WALLS, L MAX = 1200mm**  
 - STEEL BOX HEADER MADE UP OF 2-51X154 16GA TRACKS AT TOP AND BOTTOM AND 2-51X154 16 GA STEEL STUDS (PREFERRED TO BE 600S200-68).  
 - SUPPORTED ON DOUBLE TRIMMERS ON EACH END

**NOTES:**  
 - ALL DIMENSION AND LOCATIONS SHOWN FOR C1 AND C2 COLUMNS ARE APPROXIMATE. REFER TO MANUFACTURER'S SHOP DRAWINGS.  
 - CL OF C1, C2, C3 AND THEIR BASE PLATE TO BE ALIGNED WITH CL OF PILES AND GRADE BEAMS BELOW.  
 - ALL C1/C2/C3/C5 COLUMNS AND BASE PLATES TO BE ALIGNED RIGHT ON TOP OF PILES.  
 - FOR LOCATION OF THE CATCH BASIN REFER TO ARCH & MECH.  
 - ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS





**PERMIT TO PRACTICE**  
GUY ARCHITECTS LTD.  
Signature \_\_\_\_\_  
Date April 26, 2022  
PERMIT NUMBER: P 840  
NTNU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER  
A. KHATAMNEJAD  
PAKZAD  
LICENSEE  
25104722  
NT/NU

PROJECT  
**QANP OPERATIONS GARAGE**

RESOLUTE, NU

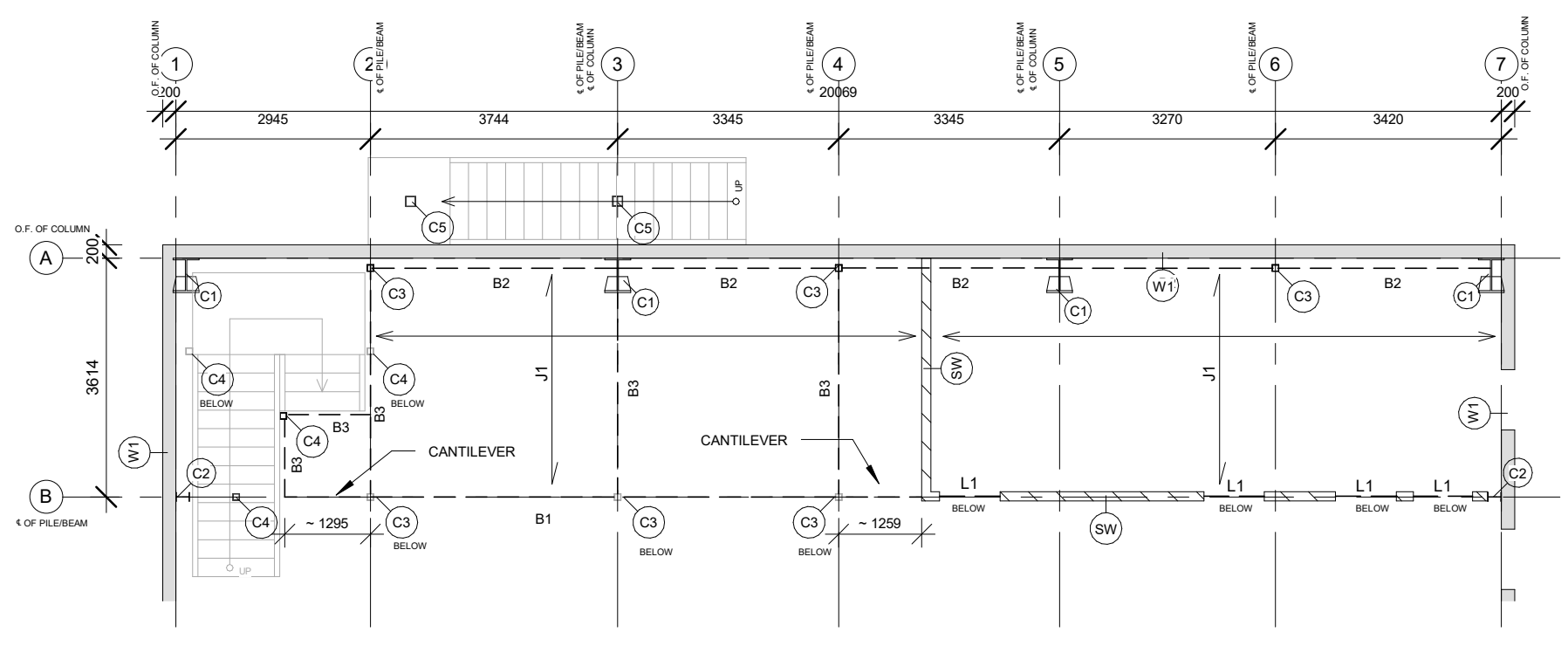
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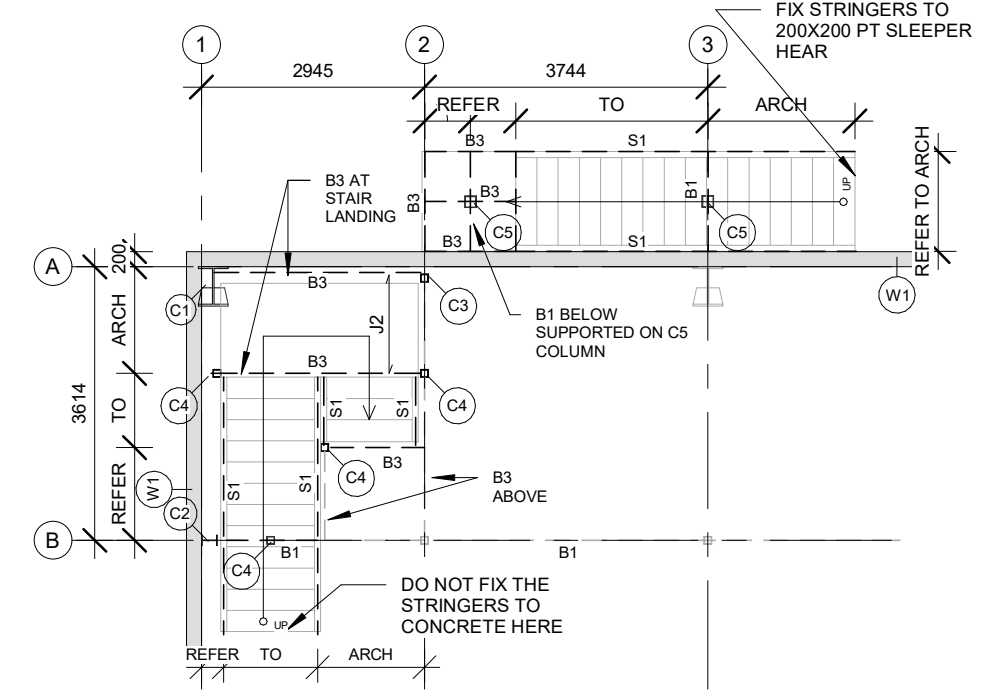
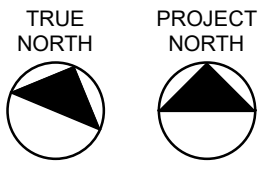
**MEZZANINE & STAIRWAY PLAN**

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PROJECT 21109	<b>S104</b>
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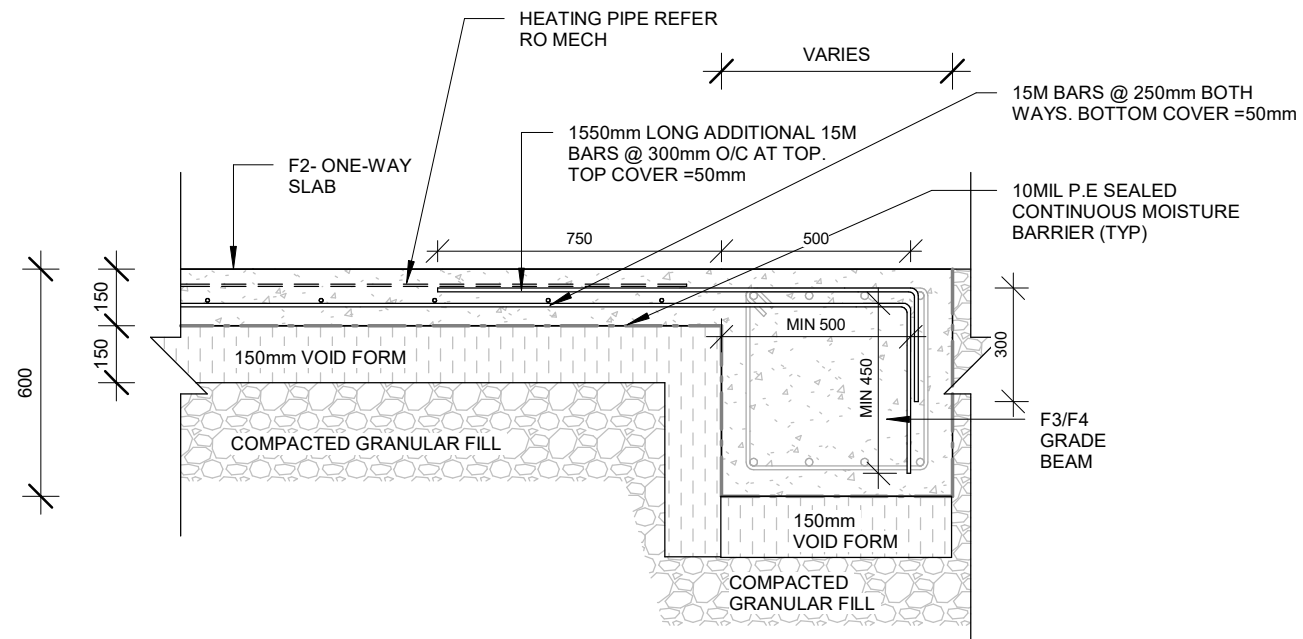
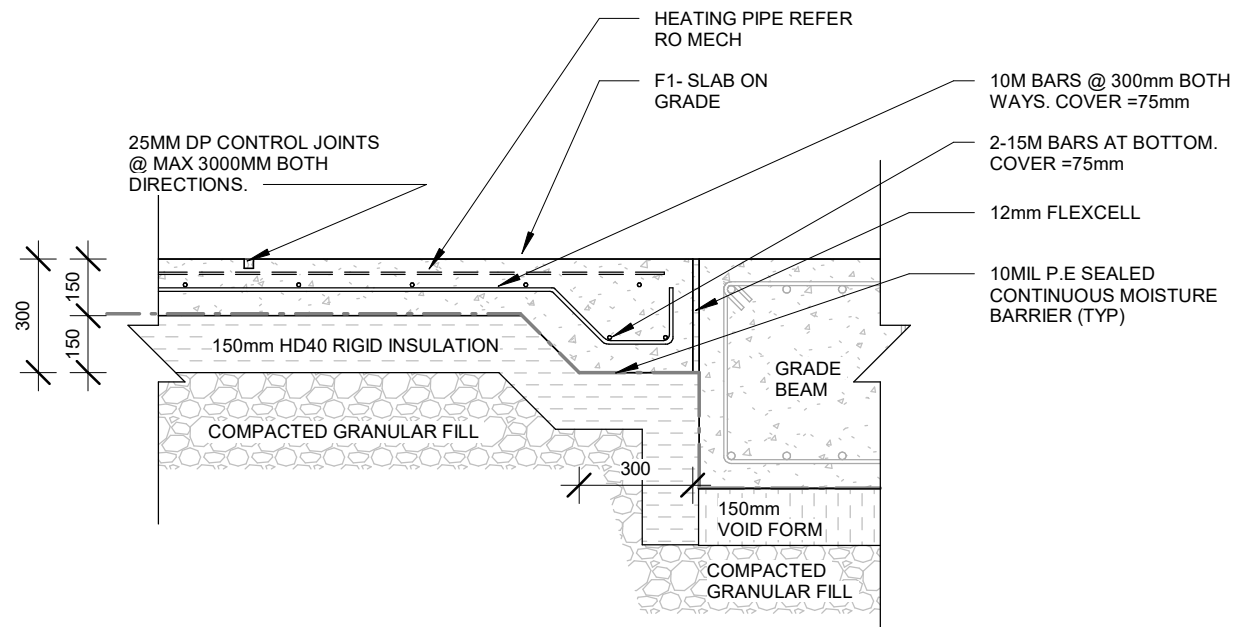


**1** MEZZANINE FRAMING  
1 : 100



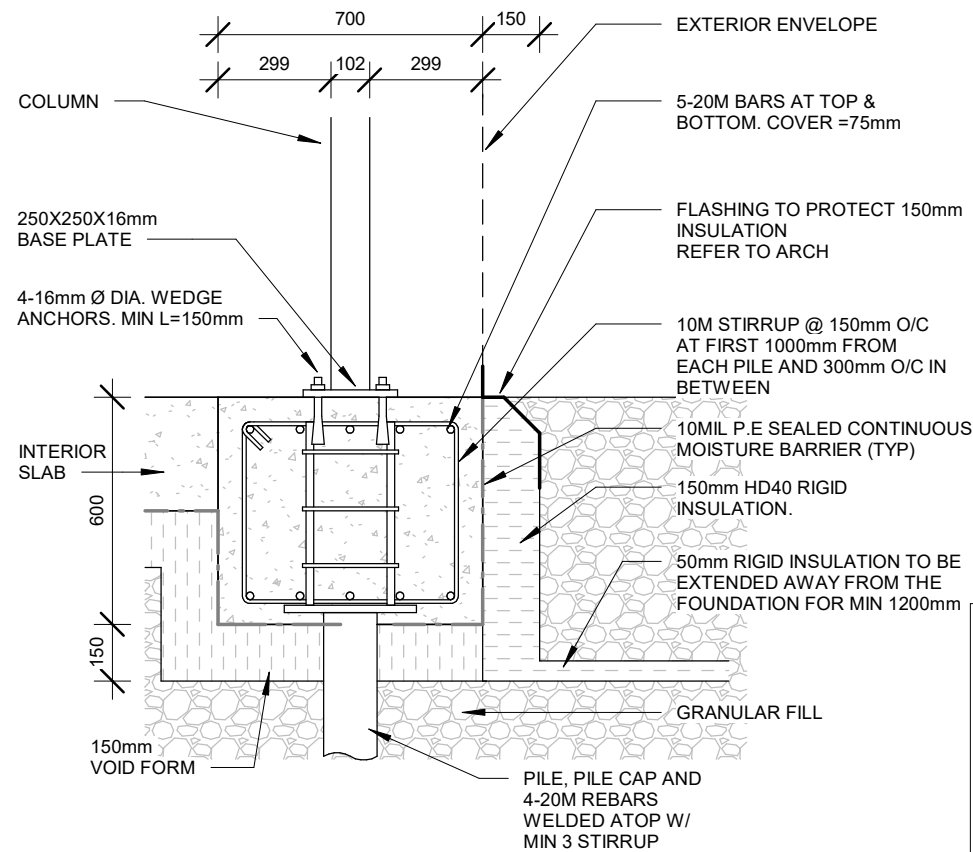
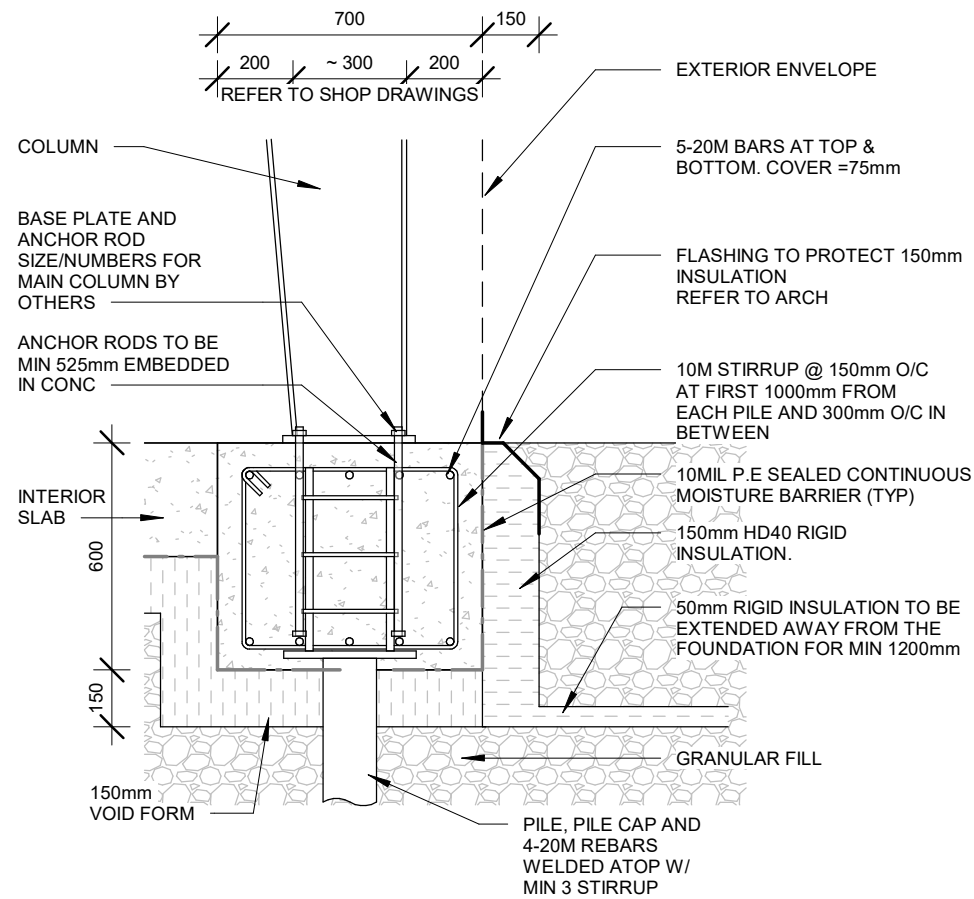
**2** STAIRWAY FRAMING  
1 : 100

- C1 & C2: MAIN AND SECONDARY COLUMNS (BY OTHERS)**  
- REFER TO MANUFACTURER'S SHOP DRAWINGS FOR SIZE, LOCATION, AND MORE DETAILS.  
- BASE PLATE AND ANCHOR ROD SPECIFICATION BY THE MANUFACTURER.  
- ANCHOR ROD TO BE HEADED RODS OR THREADED RODS WITH A HEX NUT ON THE EMBEDDED END  
- SINCE THE SHOP DRAWINGS ARE NOT PROVIDED AT THE TIME OF DESIGN OF FOUNDATION AND INTERIOR STRUCTURE, CONSIDER AT LEAST 500mm OF EMBEDMENT DEPTH FOR ANCHOR RODS INTO CONCRETE.  
- ALIGN CL OF COLUMN AND BASE PLATE WITH CL OF GRADE BEAM AND PILE BELOW.
- C3: MEZZANINE COLUMNS**  
- HSS 102X102X6.4mm COLUMNS  
- USE 250X250X16mm BASE PLATE W/ HOLES FOR 4-16mm Ø DIA. WEDGE/CAST-IN ANCHOR BOLTS. MIN L=152mm  
- ALIGN CL OF COLUMN AND BASE PLATE WITH CL OF GRADE BEAM AND PILE BELOW.  
- AT GL B, W/ 300X200X16mm POST CAP PLATE WELDED AT TOP W/ HOLES FOR 4-16mm Ø DIA. BOLTS W/ WASHER AND NUTS TO SECURE B1 BEAM ABOVE
- C4: STAIRWAY/LANDING COLUMNS**  
- HSS 102X102X6.4mm COLUMNS  
- USE 250X250X16mm BASE PLATE W/ HOLES FOR 4-16mm Ø DIA. WEDGE/CAST-IN ANCHOR BOLTS. MIN L=100mm
- C5: EXTERIOR STAIRWAY COLUMNS**  
- HSS 152X152X6.4mm COLUMNS  
- WELDED TO 452X452X16mm BASE PLATE W/ HOLES FOR 4-20mm Ø DIA. BOLTS W/ WASHER AND NUT TO GET FIXED TO PILE CAP BELOW.  
- W/ GUSSET PLATES AS SHOWN.  
- W/ 300X200X16mm POST CAP PLATE WELDED AT TOP W/ HOLES FOR 4-16mm Ø DIA. BOLTS W/ WASHER AND NUTS TO SECURE B1/B3 BEAM ABOVE
- W1: EXTERIOR WALLS (BY OTHERS)**  
- REFER TO MANUFACTURER'S SHOP DRAWINGS FOR DETAILS.  
- ALL STRUCTURAL COMPONENTS BY THE MANUFACTURER INCLUDING HEADERS, BRACING, SHEATHING AND ETC.
- SW: INTERIOR SHEAR WALLS**  
- LOAD BEARING WALL W/ 38X140mm@400mm O/C.  
- W/ 3PLY STUDS AT ENDS AND CORNERS.  
- W/ 2PLY STUDS AT OPENINGS  
- BOTTOM PT TO BE BOLTED TO BOTTOM CONCRETE WITH MIN 13mm Ø DIA. BOLTS @ MAX 610mm O/C  
- USE HD9B HOLD-DOWNS ANCHORED TO CONCRETE AT END/ OPENING AND CORNER STUDS  
- 2 ROWS OF HORIZONTAL BLOCKING BTW STUDS @ MAX 1200MM AND EQ. DISTANCE FROM TOP AND BOTTOM PLATES  
- MIN 13 MM PLYWOOD & 13 MM GWB AT SIDES WITH:  
FASTENERS @ 76 mm AT PANEL EDGES  
FASTENERS @ 203 mm AT INTERMEDIATE SUPPORTS  
- REFER TO ARCH FOR MORE DETAILS
- B1: CONTINUES BEAM - MEZZANINE**  
- W200X31 BEAM  
- SUPPORTED ON TOP OF C3 COLUMNS W/ COLUMN CAP AND 4-16mm Ø DIA BOLTS W/ WASHER AND NUTS.  
- CANTILEVER OVER C3 AT GL 2 & 4  
- W/ 13mm WEB STIFFENERS BOTH SIDES AT T/O COLUMNS AND AT MAX 1200mm O/C AT LENGTH OF THE STRINGER  
- W/ HOLES AT TOP FLANGE @ MAX 600mm O/C FOR 13mm Ø DIA BOLTS W/ WASHER AND NUT ALTERNATED ON EACH SIDE OF WEB TO SECURE 38X140mm RUNNER ABOVE  
- AT STRINGER MID SUPPORT OF INTERIOR/EXTERIOR STAIRWAY, B1 TO RUN BETWEEN S1 STRINGERS AND SUPPORTED ON POST CAP AS SHOWN.
- B2: BEAM - MEZZANINE**  
- W210X31 BEAM  
- SUPPORTED IN BETWEEN C3 AND C1 COLUMNS AS SHOWN  
- W/ 13mm WEB STIFFENERS BOTH SIDES AT MAX 1200mm O/C  
- W/ HOLES AT TOP FLANGE @ MAX 600mm O/C FOR 13mm Ø DIA BOLTS W/ WASHER AND NUT ALTERNATED ON EACH SIDE OF WEB TO SECURE 38X140mm RUNNER ABOVE
- B3: C-CHANNEL**  
- C200X21 C-CHANNEL  
- W/ TYP. 13mm WEB STIFFENERS AT MAX 1200mm O/C  
- AT MEZZANINE FRAMING, SUPPORTED IN BETWEEN C1/C3 COLUMNS AT ONE END AND THE WEB OF B1 BEAM AT OTHER END AS SHOWN  
- AT TOP LANDING OF INTERIOR STAIRWAY, C-CHANNEL TO RUN BETWEEN C4 AND B3. W/ ADDITIONAL STIFFENER AT WEB OF B3. W/ HOLES AT TOP FLANGE @ MAX 600mm O/C FOR 13mm Ø DIA BOLTS W/ WASHER AND NUT ALTERNATED ON EACH SIDE OF WEB TO SECURE 38X140mm RUNNER ABOVE  
- AT MID LANDING OF INTERIOR STAIRWAY, C-CHANNEL TO RUN BETWEEN C1-C4 AND C4-C4 AT MID LANDING HEIGHT. W/ HOLES AT TOP FLANGE @ MAX 600mm O/C FOR 13mm Ø DIA BOLTS W/ WASHER AND NUT ALTERNATED ON EACH SIDE OF WEB TO SECURE 38X140mm RUNNER ABOVE  
- AT EXTERIOR STAIRWAY LANDING, C-CHANNEL AT ALL SIDES AND IN MIDDLE SUPPORTED ON B1 BEAM BELOW W/ MIN 2-16mm Ø DIA BOLTS W/ WASHER AND NUT AT EACH CONNECTION. W/ WEB STIFFENER AT T/O B1 BEAM.
- S1: STAIRWAY STRINGER**  
- C200X21 C-CHANNEL STRINGERS AT BOTH SIDES  
- CONNECTED TO B3 BEAMS AT LANDINGS AS SHOWN  
- SUPPORTED ON B3 BEAM AT MID SPAN AS SHOWN  
- W/ L100X100X6.4mm ANGLES WELDED AT INNER FACE TO SUPPORT TREAD PLANKS  
- W/ WEB STIFFENER AT MAX 1200mm O/C AND ADDITIONAL STIFFENERS AT B1 SUPPORTS  
- FOR EXTERIOR STAIRWAY, CONNECT THE END OF STRINGER AT TOP OF 200X200 PT SLEEPER W/ ANGLES AND LAG SCREWS AT GRADE  
- FOR INTERIOR STAIRWAY, DO NOT ATTACH THE END OF STRINGER TO CONCRETE TO AVOID DIFFERENTIAL MOVEMENT. WELD A PLATE TO JUST SIT ON THE CONCRETE.
- J1: MEZZANINE JOISTS**  
- 302mm DP TJI360 @ 400mm O/C  
- W/ MIN 16mm PLYWOOD NAILED AND GLUED AT TOP.  
- SUPPORTED ON SW WALL AND B1 BEAM AT GL B AND SUPPORTED ON B2 BEAMS AT GL A  
- SUPPORTED ON 38X140mm RUNNERS ON TOP OF B1/B2/B3 BEAMS  
- CANTILEVER OVER B2 AT GL A TO REACH INNER FACE OF EXTERIOR WALL (W1). REFER TO ARCH FOR MORE DETAILS.  
- NAILING AND JOIST TO RUNNER/TOP PLATE CONNECTION AS PER MANUFACTURER'S INSTRUCTION  
- USE ADDITIONAL SIMPSON STRONG TIE A23 ANGLES ON EVERY THIRD JOIST TO TIE DOWN TO RUNNER/TOP PLATE.  
- W/ RIM JOIST AND BLOCKING AS PER MANUFACTURER'S INSTRUCTION
- J2: INTERIOR STAIRWAY MID LANDING JOISTS**  
- 38X184mm JOISTS @ 400mm O/C  
- W/ MIN 16mm PLYWOOD NAILED AND GLUED AT TOP.  
- SUPPORTED ON 38X140mm RUNNERS ON TOP OF B3 BEAMS  
- CANTILEVER OVER B3 AT GL A TO REACH INNER FACE OF EXTERIOR WALL (W1). REFER TO ARCH FOR MORE DETAILS.
- L1: HEADERS IN LOADBEARING WALLS, L MAX = 1200mm**  
- USE 2PLY 38X184mm HEADERS  
- SUPPORTED ON 3PLY 38X140mm JACK STUDS  
- W/ 2PLY KING STUDS AS OER SW WALL.
- NOTES:**  
- ALL DIMENSION AND LOCATIONS SHOWN FOR COLUMNS ARE APPROXIMATE. REFER TO MANUFACTURER'S SHOP DRAWINGS AND ARCH.  
- CL OF C1, C2, C3 AND THEIR BASE PLATE TO BE ALIGNED WITH CL OF PILES AND GRADE BEAMS BELOW.  
- FOR LOCATION OF THE CATCH BASIN REFER TO ARCH & MECH.  
- ALL BEAMS TO HAVE 13mm WEB STIFFENER AT MAX 1200mm O/C  
- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS



**1** F1 - TYP. SLAB ON GRADE SECTION  
1 : 20

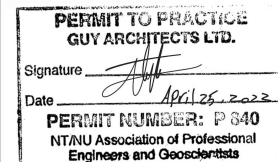
**2** F2 - TYP. ONE-WAY SLAB SECTION  
1 : 20



**3** F3 - TYP. SECTION @ MAIN COLUMNS  
1 : 20

**4** F3 - TYP. SECTION @ C3 COLUMNS  
1 : 20

**NOTES:**  
 - FOR THE SIZE AND LOCATION OF THE STEEL COLUMNS REFER TO SUPERSTRUCTURE'S SHOP DRAWINGS AND ARCH.  
 - ANCHOR RODS SHALL BE MINIMUM 525MM LONG FOR THE EMBEDMENT LENGTH. THESE CAN BE HEADED RODS OR THREADED RODS WITH A HEX NUT ON THE EMBEDDED END. ALL OTHER SPECIFICATIONS SUCH AS NUMBER AND LOCATION FOR THESE RODS AND THE BASE PLATE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STAMPED SHOP DRAWINGS.  
 - CONTRACTOR TO CONSIDER MIN 50mm CONCRETE COVER ON T.O. PIPES AT ALL LOCATIONS  
 - IF CONTROL JOINTS ARE CUT AFTER CONCRETE POUR, CONTRACTOR TO BE AWARE OF CUTTING BURIED PIPES  
 - CL OF C1, C2, C3 AND THEIR BASE PLATE TO BE ALIGNED WITH CL OF PILES AND GRADE BEAMS BELOW.  
 - FOR LOCATION OF THE CATCH BASIN REFER TO ARCH & MECH.  
 - ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS



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PROJECT  
**QANP OPERATIONS GARAGE**

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DRAWING

**FOUNDATION DETAILS**

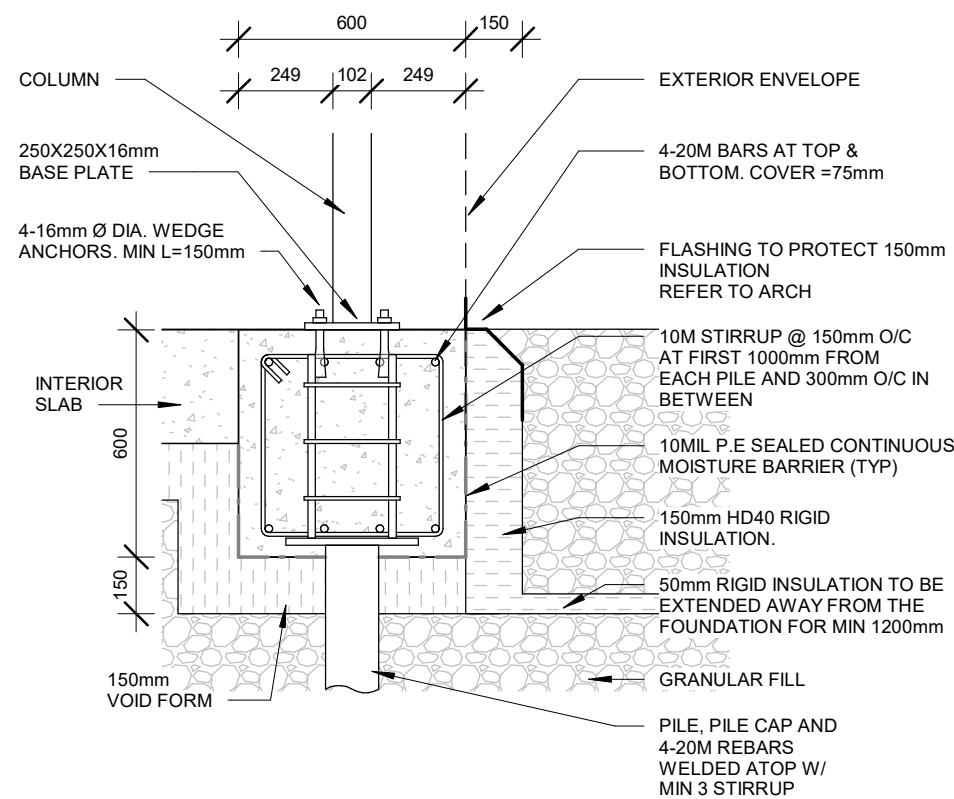
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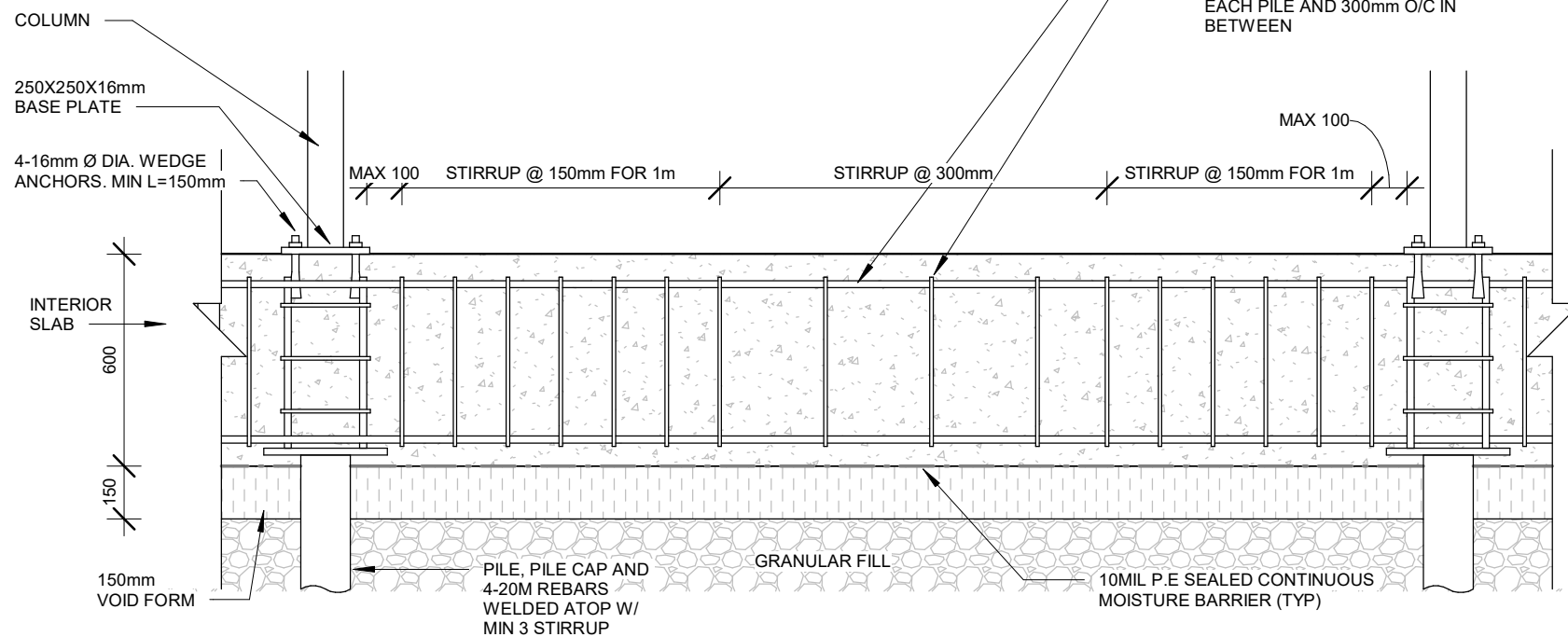
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**S105**



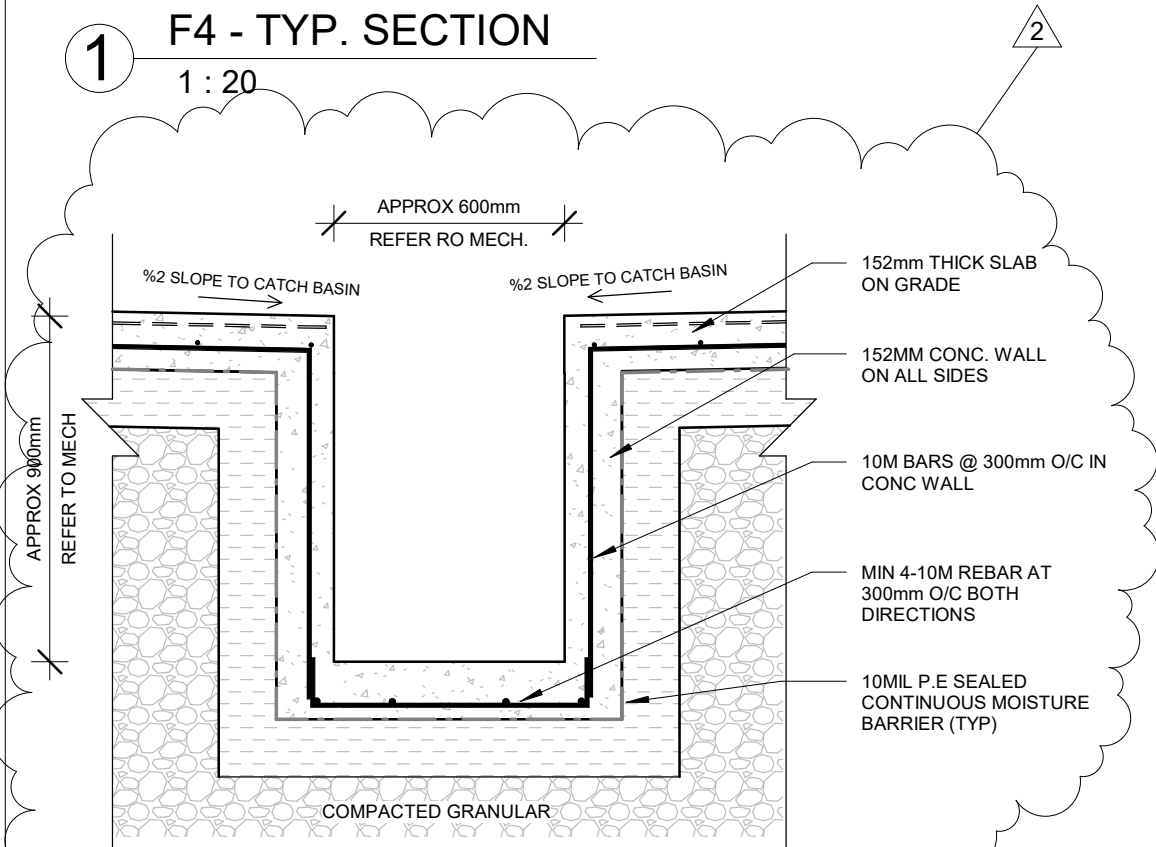
**F4 - TYP. SECTION**

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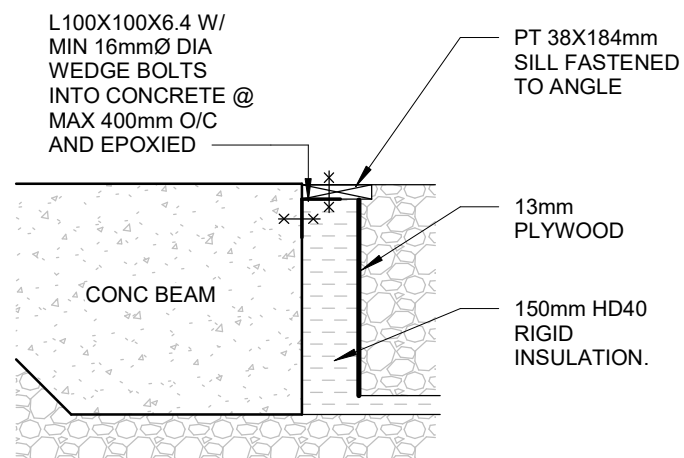
**F3/F4 TYP. REBARS**

1 : 20



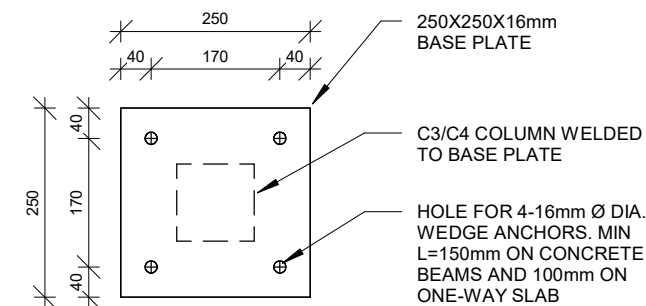
**TYP. CATCH BASIN SECTION**

1 : 20



**TYP. SILL PT AT DOORS**

1 : 20



**C3/C4 BASE PLATE**

1 : 10

**NOTES:**

- FOR THE SIZE AND LOCATION OF THE STEEL COLUMNS REFER TO SUPERSTRUCTURE'S SHOP DRAWINGS AND ARCH.
- ANCHOR RODS SHALL BE MINIMUM 525MM LONG FOR THE EMBEDMENT LENGTH. THESE CAN BE HEADED RODS OR THREADED RODS WITH A HEX NUT ON THE EMBEDDED END. ALL OTHER SPECIFICATIONS SUCH AS NUMBER AND LOCATION FOR THESE RODS AND THE BASE PLATE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STAMPED SHOP DRAWINGS.
- CONTRACTOR TO CONSIDER MIN 50mm CONCRETE COVER ON T.O. PIPES AT ALL LOCATIONS
- IF CONTROL JOINTS ARE CUT AFTER CONCRETE POUR, CONTRACTOR TO BE AWARE OF CUTTING BURIED PIPES
- CL OF C1, C2, C3 AND THEIR BASE PLATE TO BE ALIGNED WITH CL OF PILES AND GRADE BEAMS BELOW.
- FOR LOCATION OF THE CATCH BASIN REFER TO ARCH & MECH.
- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS

**PERMIT TO PRACTICE**  
**GUY ARCHITECTS LTD.**  
Signature: [Signature]  
Date: April 26, 2022  
**PERMIT NUMBER: P 840**  
NTNU Association of Professional Engineers and Geoscientists



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PROJECT  
**QANP OPERATIONS GARAGE**

No.	DATE	ISSUED FOR
2	04/05/2022	IFT REVISION

DRAWING

**FOUNDATION DETAILS**

DO NOT SCALE FOR DIMENSIONS

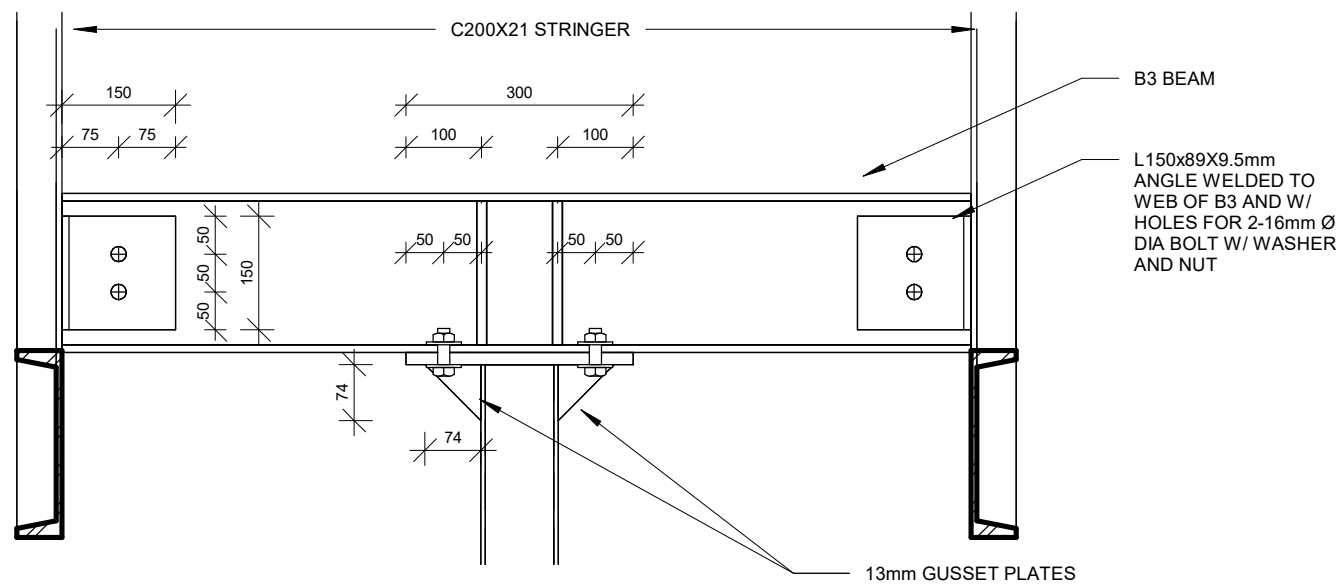
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DRAWN: AP

PROJECT: 21109

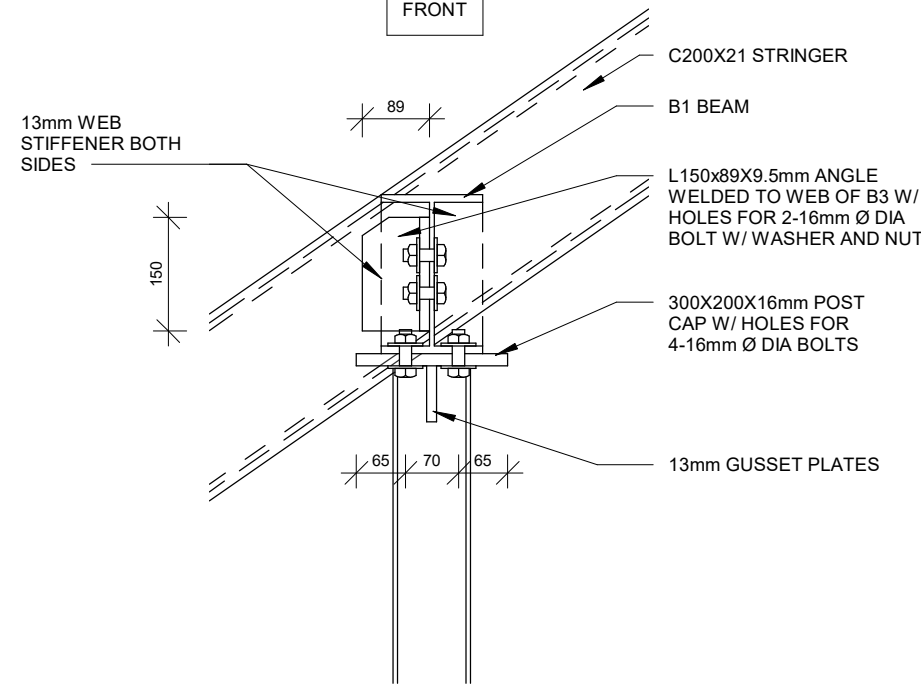
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**S106**

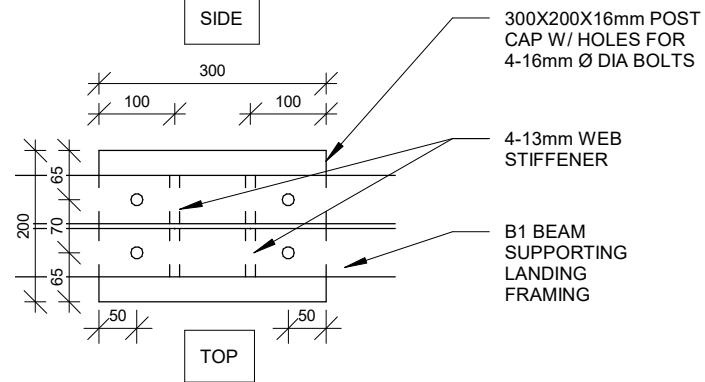




FRONT



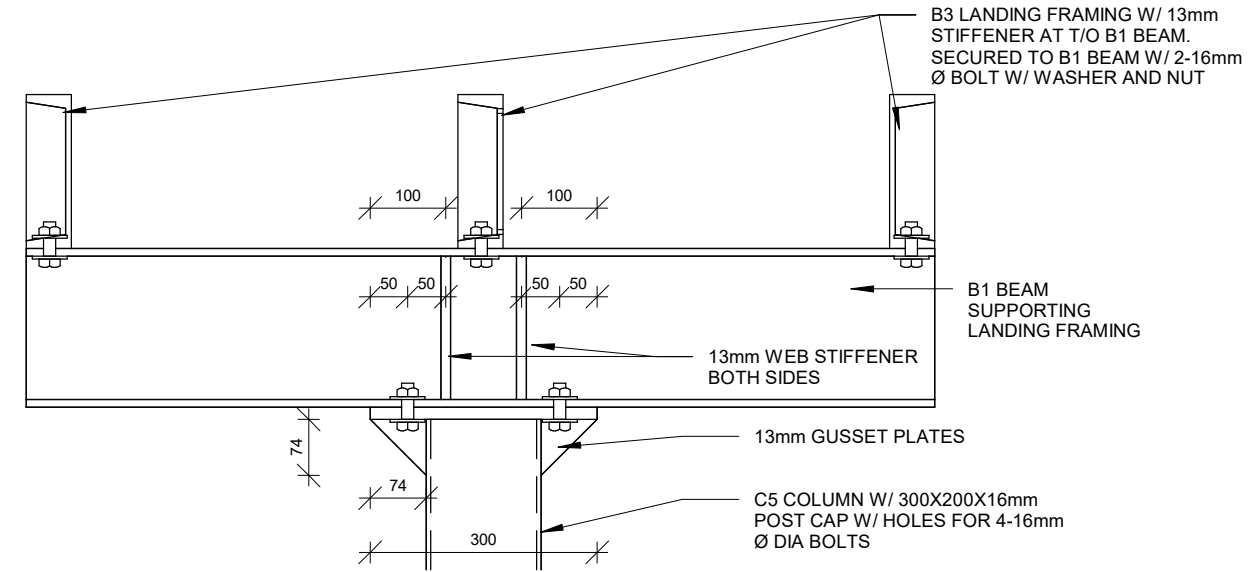
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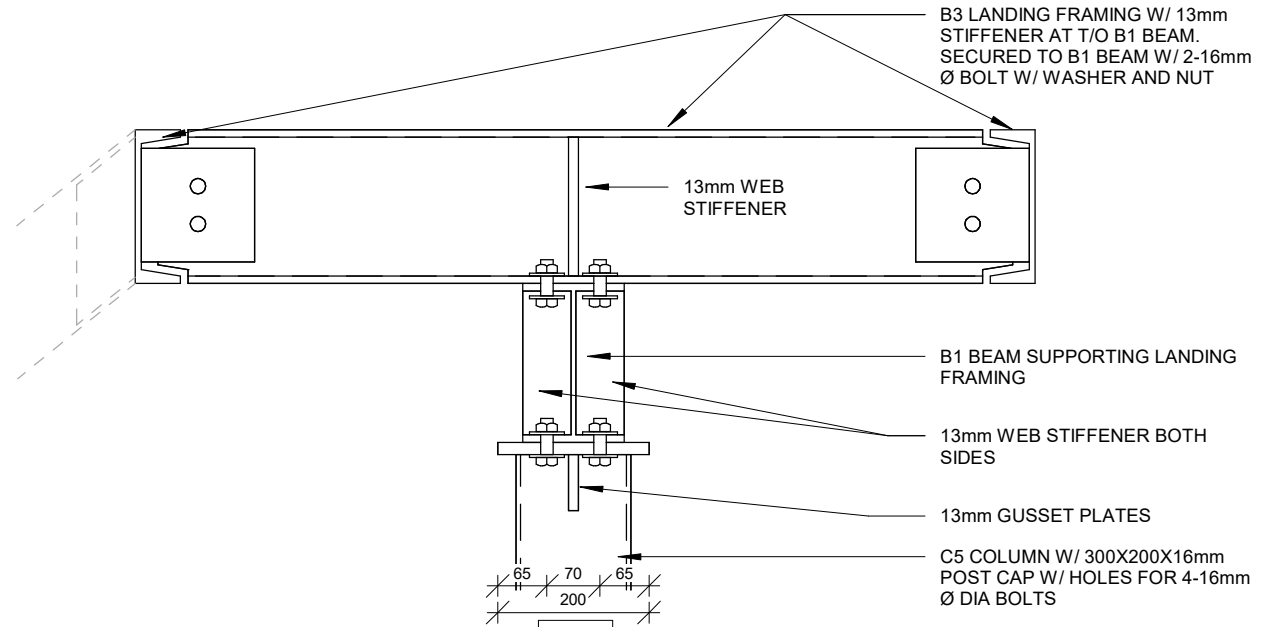
TOP

**NOTES:**  
 - FOR THE SIZE AND LOCATION OF THE STEEL COLUMNS REFER TO SUPERSTRUCTURE'S SHOP DRAWINGS AND ARCH.  
 - STAIRWAY DETAILS REFER TO ARCH  
 - CL OF C1, C2, C3 AND THEIR BASE PLATE TO BE ALIGNED WITH CL OF PILES AND GRADE BEAMS BELOW.  
 - ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS

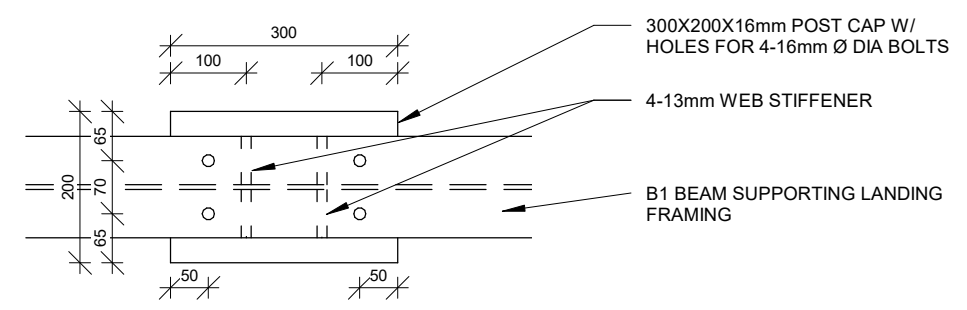
1 STRINGER SUPPORT AT GL B AND 3  
 1 : 10



FRONT



SIDE



TOP

2 EXTERIOR LANDING SUPPORT  
 1 : 10

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PROJECT  
**QANP OPERATIONS GARAGE**

RESOLUTE, NU

No.	DATE	ISSUED FOR
2	04/05/2022	IFT REVISION

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DRAWING

**STAIRWAY FRAMING DETAILS**

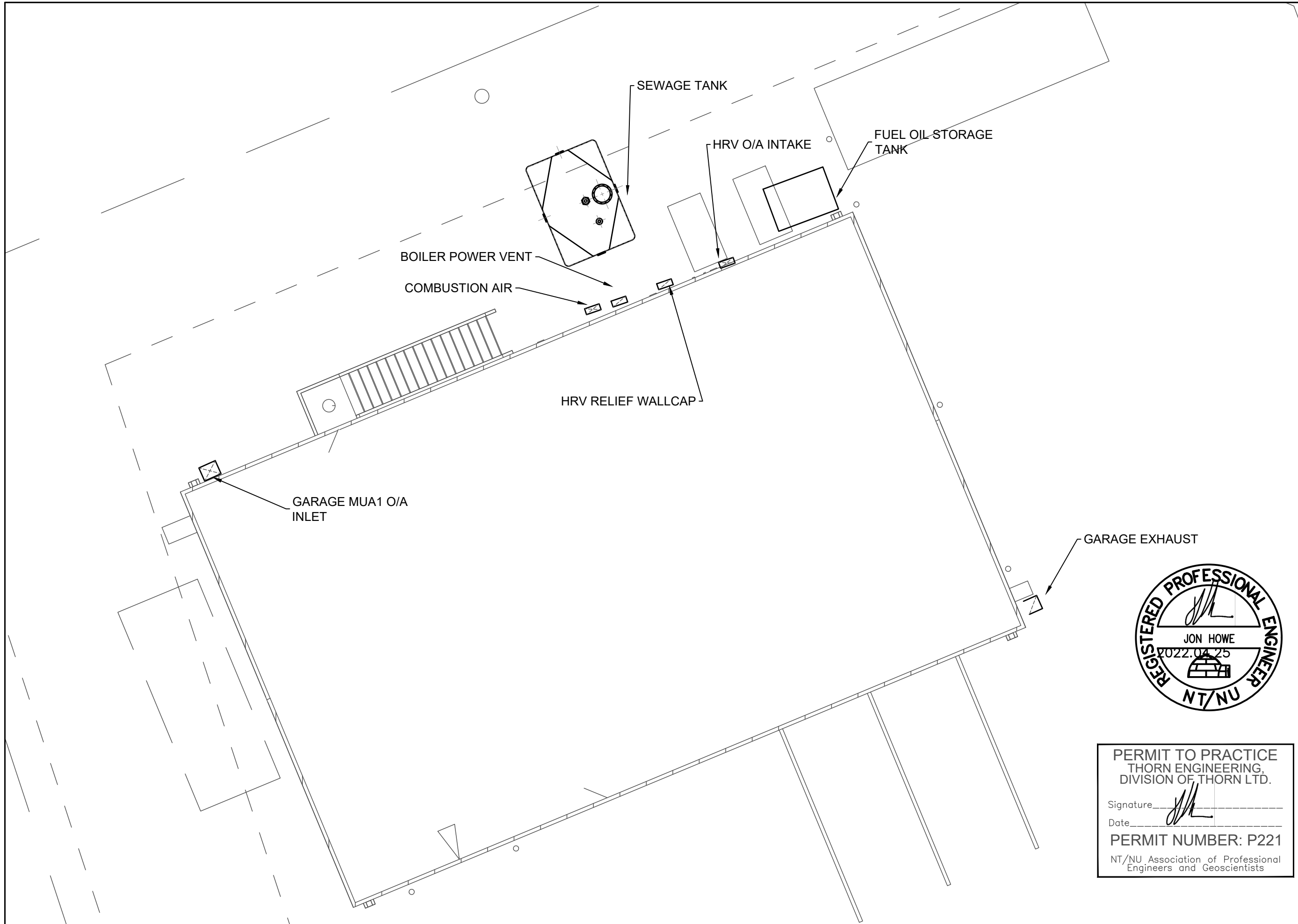
DO NOT SCALE FOR DIMENSIONS

DESIGN: RWG  
 DRAWN: AP

PROJECT: 21109  
 SCALE: 1 : 10  
**S108**



**THORN  
ENGINEERING**



PROJECT TITLE

**QANP  
OPERATIONS  
GARAGE**

Resolute, NU

DATE	ISSUED FOR
22.04.25	IFT

DRAWING TITLE

**SITE PLAN**

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWER	<b>M100</b>
JH	JH	
PROJECT	21-035	
SCALE	1:100	

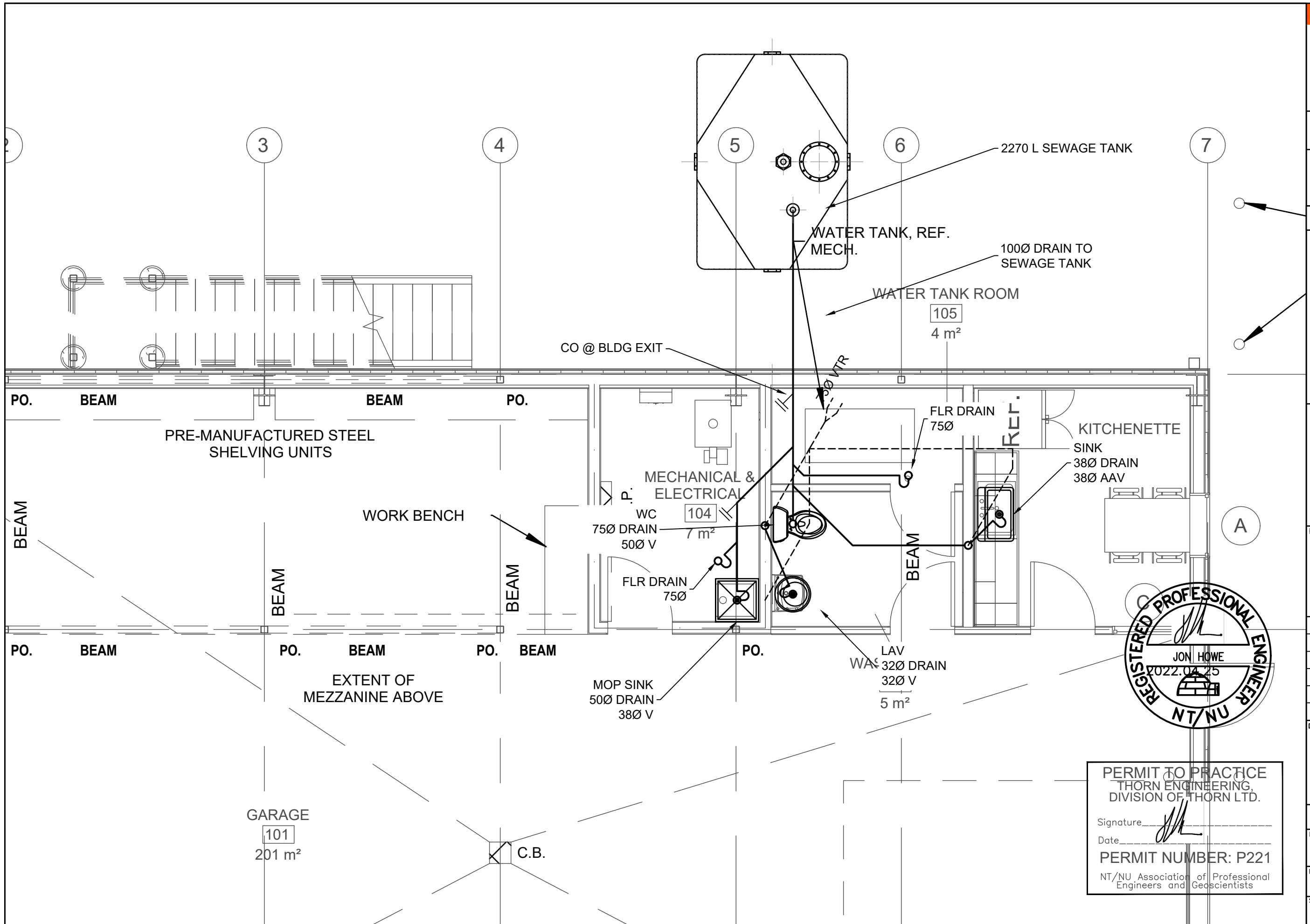


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DIVISION OF THORN LTD.

Signature \_\_\_\_\_  
Date \_\_\_\_\_

**PERMIT NUMBER: P221**  
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Engineers and Geoscientists

**THORN  
ENGINEERING**



PROJECT TITLE

**QANP  
OPERATIONS  
GARAGE**

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DATE	ISSUED FOR

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DRAWING TITLE

**PLUMBING  
DWV**

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWER	PROJECT	SCALE
JH	JH		

**M101**

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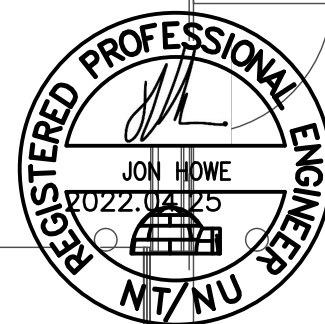
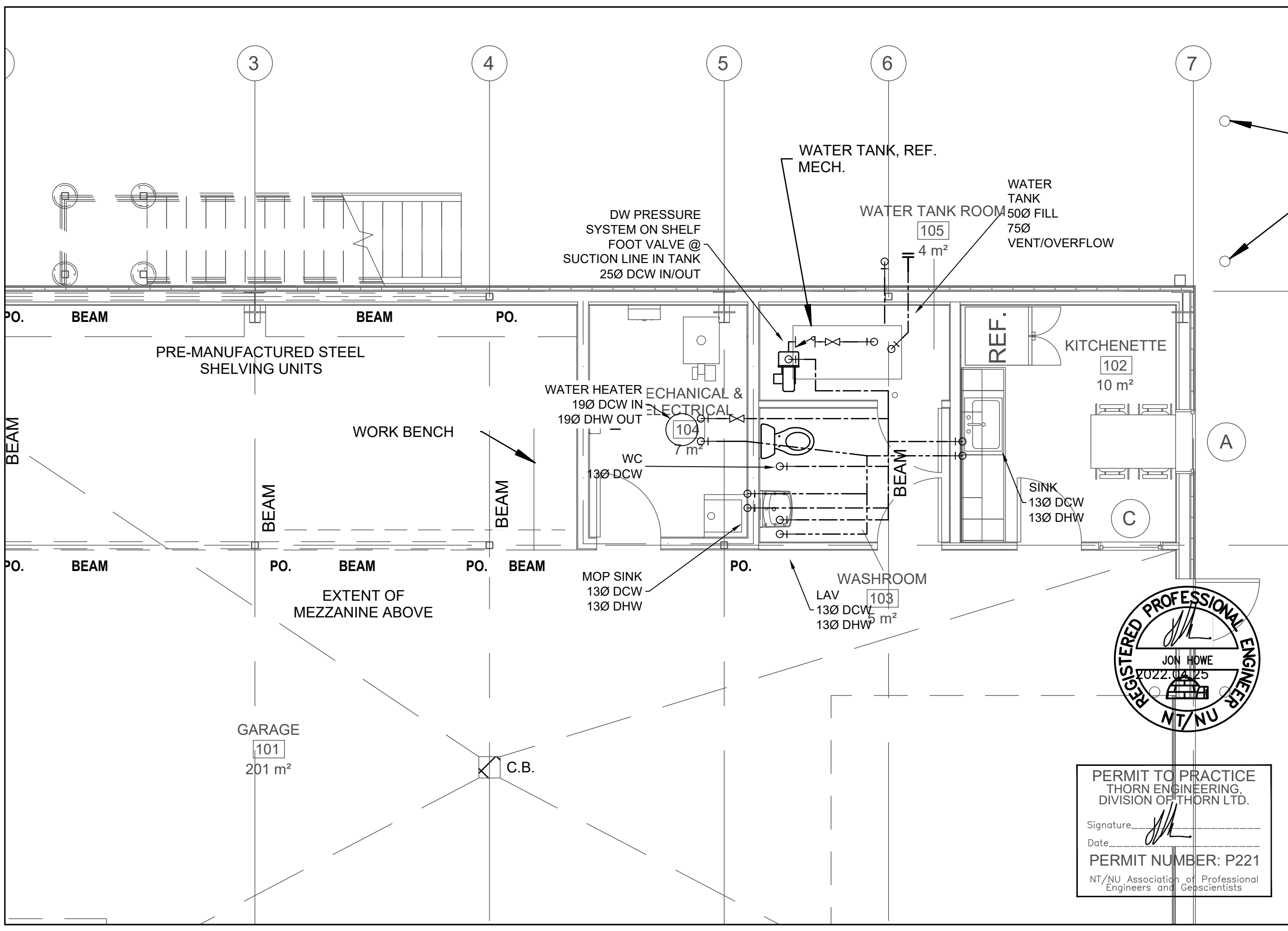
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Date \_\_\_\_\_

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Date: \_\_\_\_\_

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PROJECT TITLE

**QANP  
OPERATIONS  
GARAGE**

Resolute, NU

DATE	ISSUED FOR
22.04.25	IFT

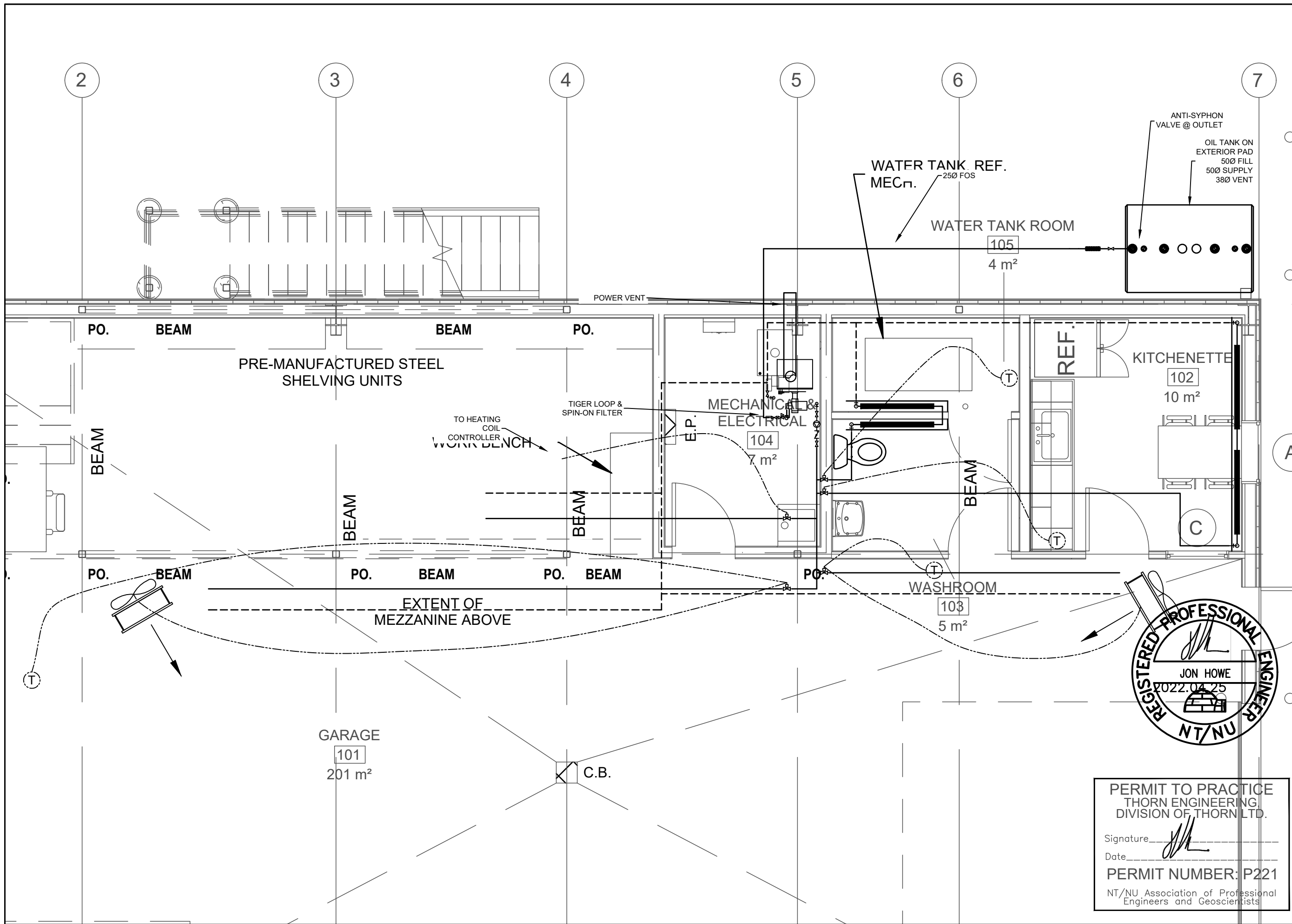
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**PLUMBING  
DCW/DHW**

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWER	PROJECT	SCALE
JH	JH		
		<b>M102</b>	

**THORN ENGINEERING**



PROJECT TITLE

**QANP OPERATIONS GARAGE**

Resolute, NU

DATE	ISSUED FOR

22.04.25 IFT

DRAWING TITLE

**HEATING**

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWER
JH	JH

**M103**

PROJECT

21-035

SCALE

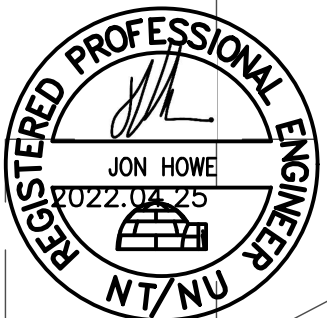
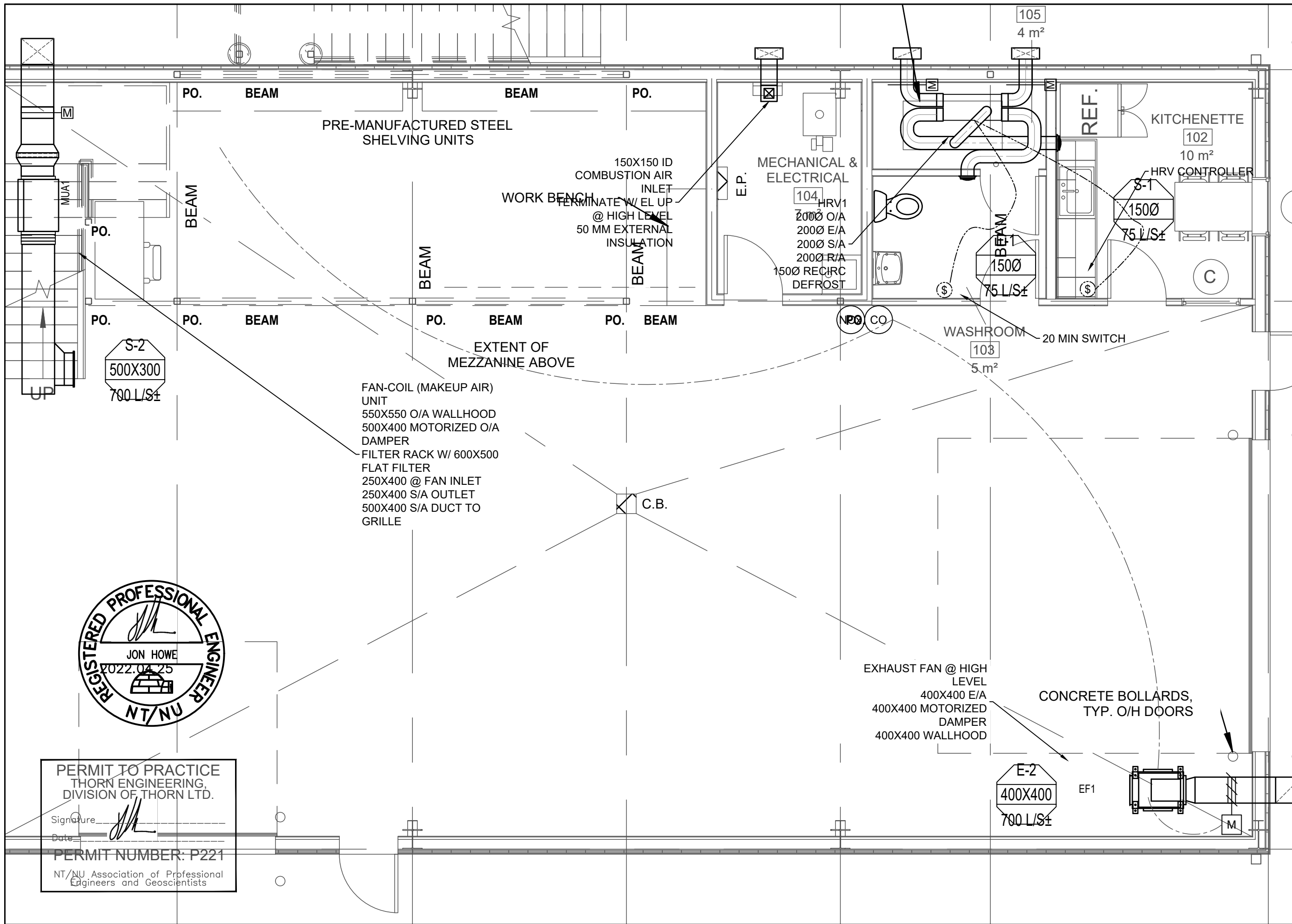
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DIVISION OF THORN LTD.

Signature \_\_\_\_\_  
Date \_\_\_\_\_

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Engineers and Geoscientists



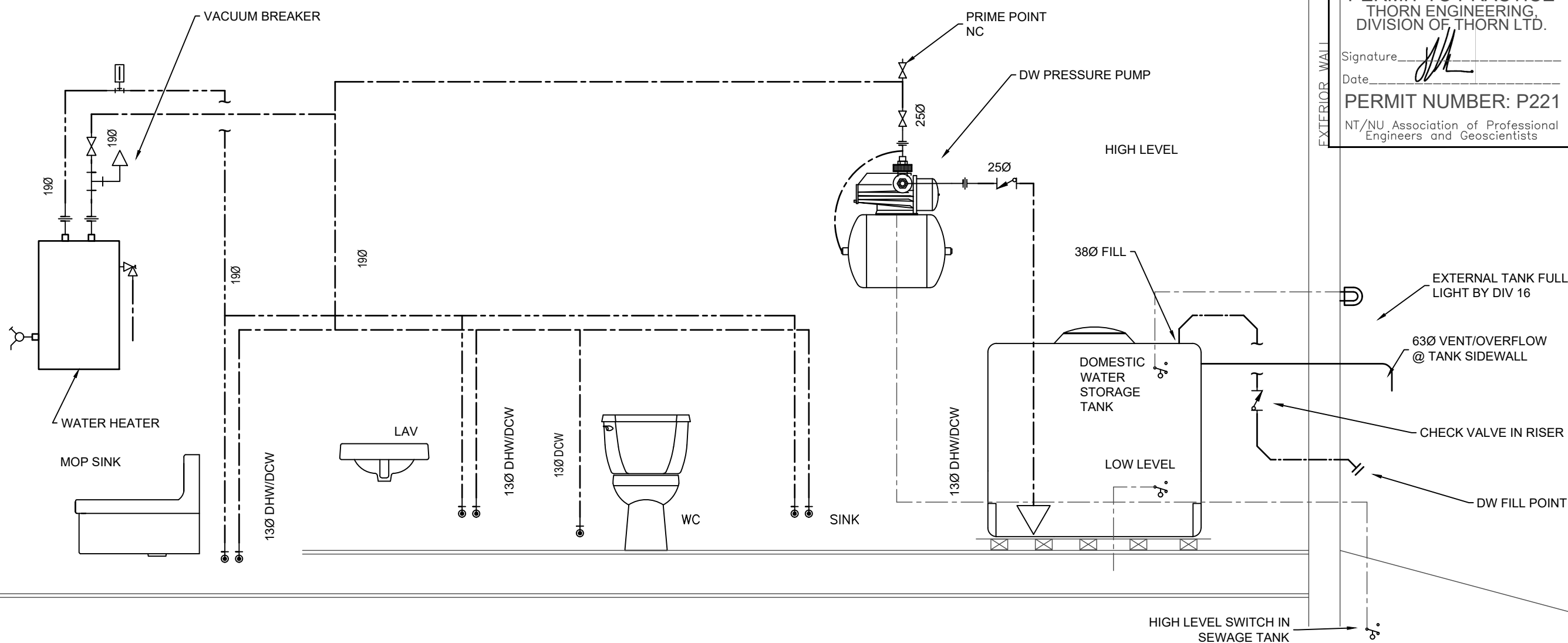
PERMIT TO PRACTICE  
THORN ENGINEERING,  
DIVISION OF THORN LTD.  
Signature: *[Signature]*  
Date: \_\_\_\_\_  
PERMIT NUMBER: P221  
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PROJECT TITLE	
QANP OPERATIONS GARAGE	
Resolute, NU	
DATE	ISSUED FOR
22.04.25	IFT
DRAWING TITLE	
VENTILATION	
DO NOT SCALE FOR DIMENSIONS	
DESIGN	DRAWER
JH	JH
PROJECT	
21-035	
SCALE	
1:50	
M104	

THORN  
ENGINEERING



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DIVISION OF THORN LTD.  
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Date \_\_\_\_\_  
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PROJECT TITLE

QANP  
OPERATIONS  
GARAGE

Resolute, NU

DATE ISSUED FOR

22.04.25 IFT

DRAWING TITLE

PLUMBING  
SCHEMATIC

DO NOT SCALE FOR DIMENSIONS

DESIGN DRAWER

JH JH

M105

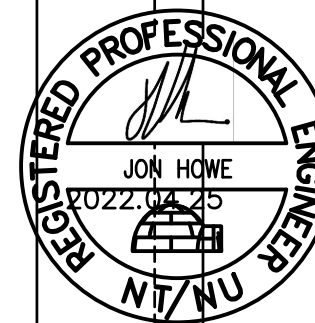
PROJECT

21-035

SCALE

NTS

**THORN  
ENGINEERING**



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DIVISION OF THORN LTD.  
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Date \_\_\_\_\_  
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PROJECT TITLE

**QANP  
OPERATIONS  
GARAGE**

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22.04.25	IFT

DRAWING TITLE

**HEATING  
SCHEMATIC**

DO NOT SCALE FOR DIMENSIONS

DESIGN DRAWER

JH JH

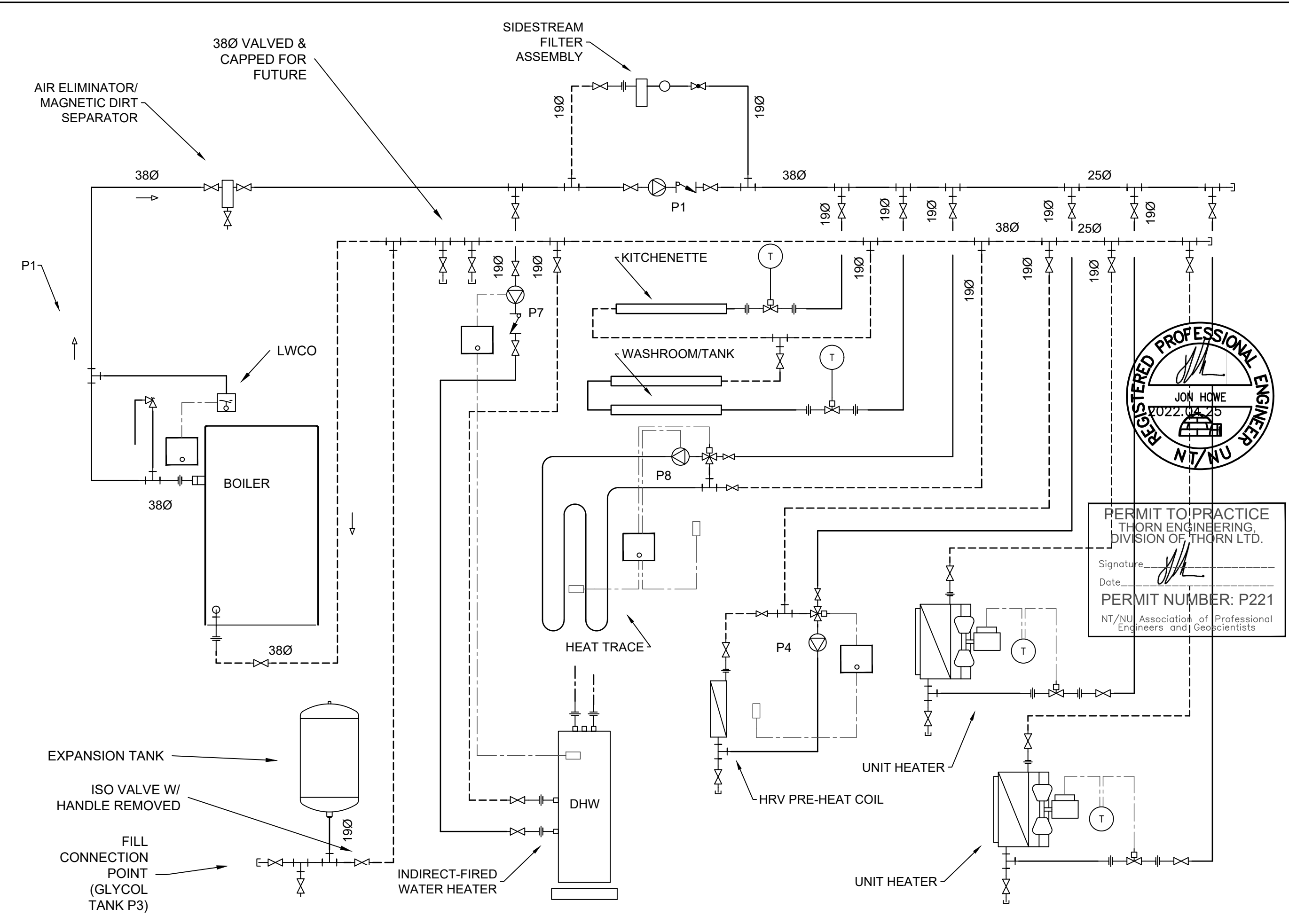
**M106**

PROJECT

21-035

SCALE

NTS



AIR ELIMINATOR/  
MAGNETIC DIRT  
SEPARATOR

38Ø VALVED &  
CAPPED FOR  
FUTURE

SIDESTREAM  
FILTER  
ASSEMBLY

P1

LWCO

BOILER

KITCHENETTE

WASHROOM/TANK

HEAT TRACE

DHW

INDIRECT-FIRED  
WATER HEATER

P4

UNIT HEATER

HRV PRE-HEAT COIL

UNIT HEATER

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PROJECT TITLE

**QANP  
OPERATIONS  
GARAGE**

Resolute, NU

DATE	ISSUED FOR
22.04.25	IFT

DRAWING TITLE

**HEATING  
SCHEMATIC**

DO NOT SCALE FOR DIMENSIONS

DESIGN DRAWER

JH JH

**M106**

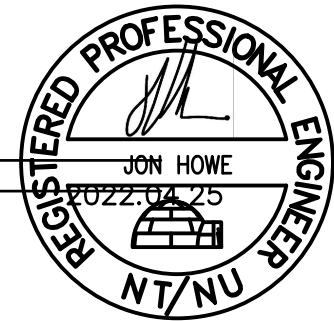
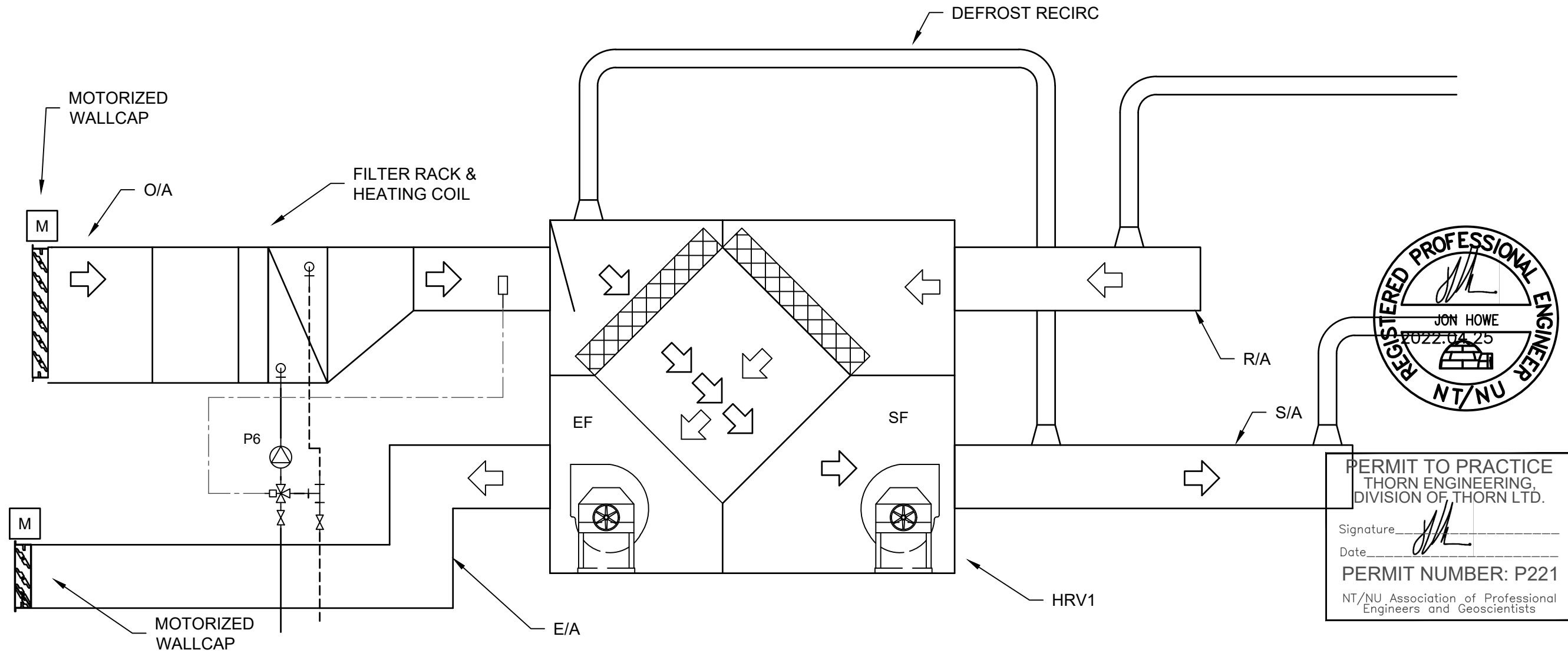
PROJECT

21-035

SCALE

NTS

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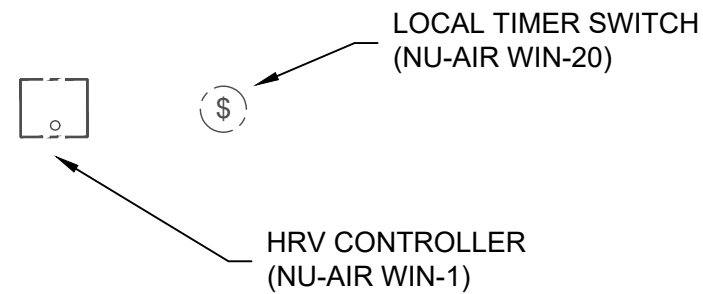
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DIVISION OF THORN LTD.  
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Date \_\_\_\_\_  
PERMIT NUMBER: P221  
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**NOTES:**

HEATING COIL CONTROL MODULATES TO MAINTAIN DISCHARGE AIR TEMPERATURE, INITIALLY SET @ -4°C  
LOCATE SENSOR BETWEEN H/C AND HRV INLET

HRV CONTROLLER LOCATED IN KITCHENETTE 102  
HRV OPERATION ACCORDING TO USER PREFERENCE.

20 MIN TIMER SWITCH LOCATED IN WC WILL OVERRIDE HRV CONTROL, HRV WILL RUN AT HIGH SPEED FOR 20 MIN, THEN REVERT TO PREVIOUS MODE



PROJECT TITLE

QANP  
OPERATIONS  
GARAGE

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DRAWING TITLE

VENTILATION  
SCHEMATIC

DO NOT SCALE FOR DIMENSIONS

DESIGN DRAWER

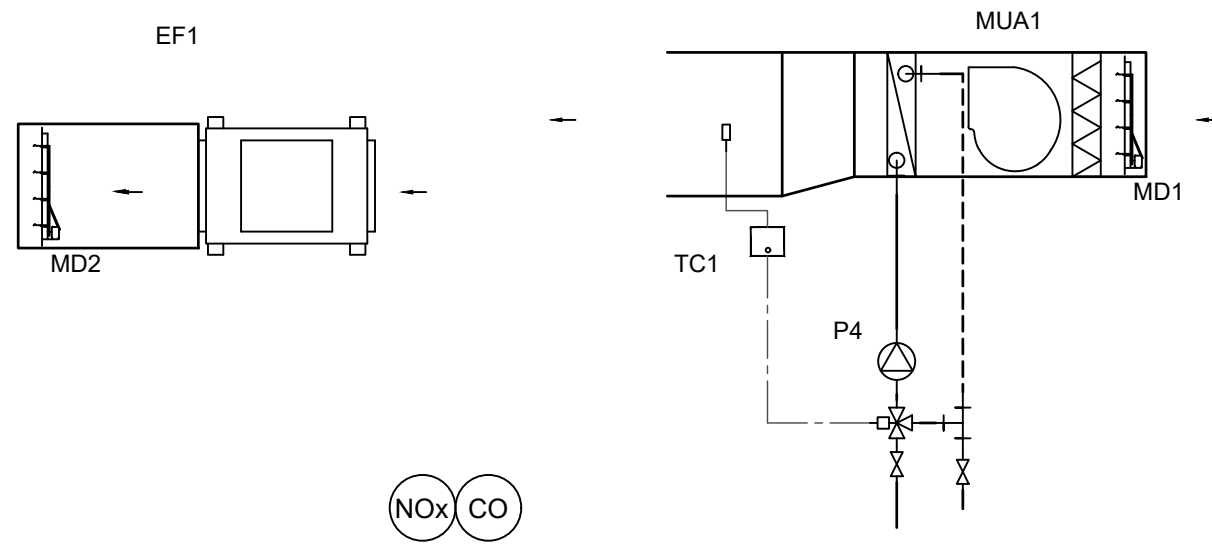
JH JH

M107

PROJECT  
21-035

SCALE  
NTS

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ENGINEERING**



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Signature \_\_\_\_\_  
Date \_\_\_\_\_  
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**SEQUENCE OF OPERATION**

1. HEATING COIL 3-WAY VALVE IS CONTROLLED BY TEMPERATURE CONTROLLER TC1. POWER TO CONTROLS AT ALL TIMES.
2. HEATING COIL PUMP P4 RUNS CONTINUOUSLY.
3. MOTORIZED DAMPER MD1 IS INTERLOCKED WITH MUA1.
4. MOTORIZED DAMPER MD2 IS INTERLOCKED WITH EF1.
5. HOA SWITCH PERMITS MANUAL OPERATION OF SYSTEM
6. IN AUTO MODE, DUAL CHANNEL GAS MONITOR WILL RUN BOTH MUA1 AND EF1 DURING AN ALARM CONDITION
7. FANS RETURN TO NORMALLY OFF CONDITION WHEN CONTAMINANT LEVEL DROPS TO BELOW SETPOINT

**PROJECT TITLE**

**QANP  
OPERATIONS  
GARAGE**

**Resolute, NU**

DATE	ISSUED FOR
22.04.25	IFT

**DRAWING TITLE**

**VENTILATION  
SCHEMATIC**

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWER
JH	JH
PROJECT 21-035	
SCALE NTS	

JH

PROJECT

21-035

SCALE

NTS

**M108**

P.O. BOX 1136  
Yellowknife, NT Canada, X1A 2N8

**P** (867) 873-3266  
**F** (867) 873-3366  
**E** wayne@guyarchitects.com  
**W** www.guyarchitects.com

ARCHITECTURE INTERIORS ENGINEERING



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PLAN-ENG CONSULTING INC.  
Signature: [Signature]  
Date: 14 APRIL 2022  
PERMIT NUMBER: P 563  
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PROJECT  
**QANP  
OPERATIONS  
GARAGE**

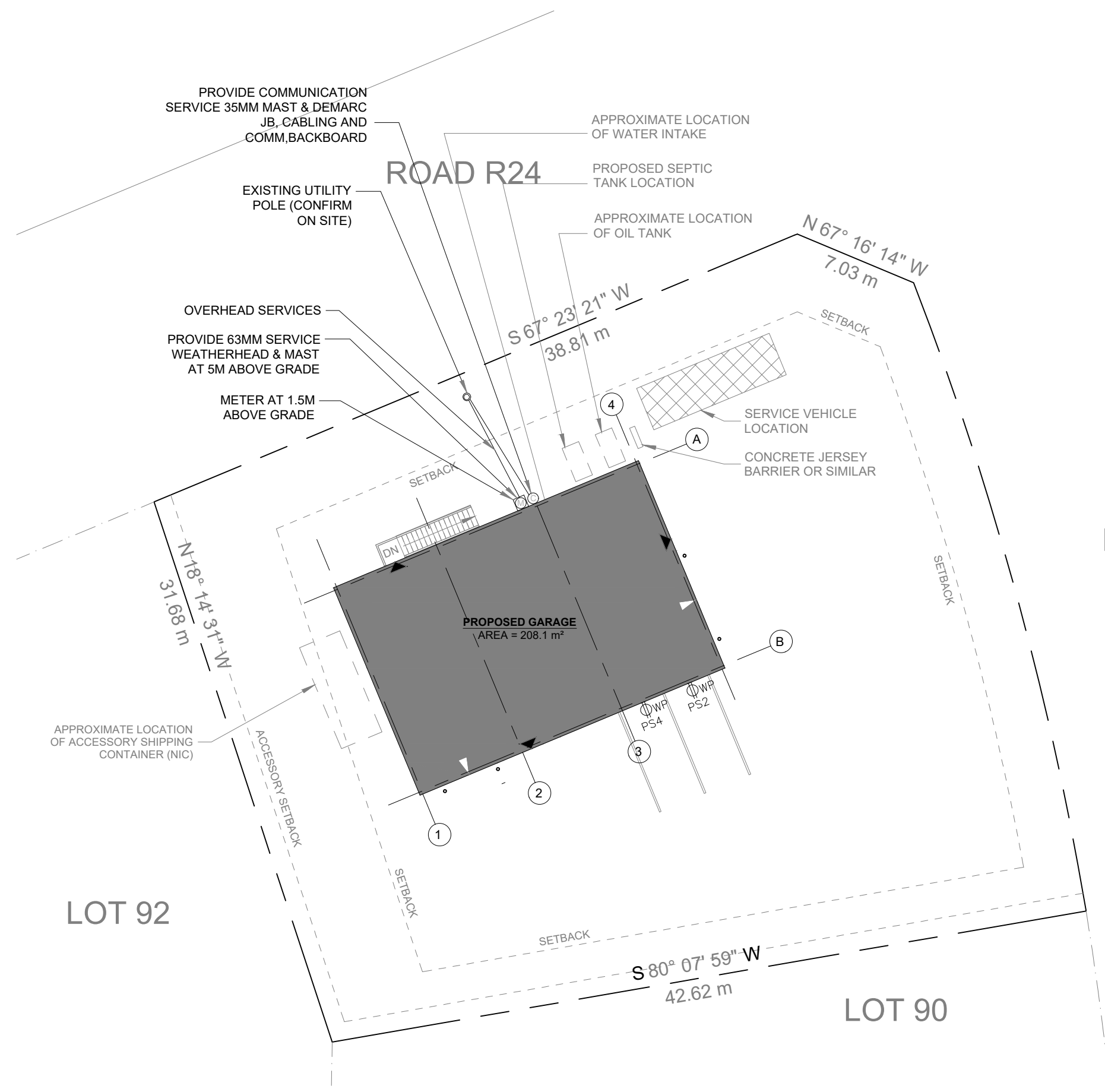
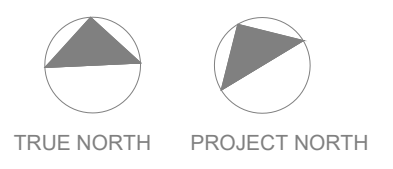
RESOLUTE, NU

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2	04/14/2022	ISSUED FOR TENDER

DRAWING  
**ELECTRICAL  
SITE PLAN**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
PROJECT 21109	<b>E001</b>
SCALE 1:250	
















LEGAL ADDRESS: LOT 121, BLOCK 2, PLAN 4064  
CIVIC ADDRESS: RESOLUTE, NU





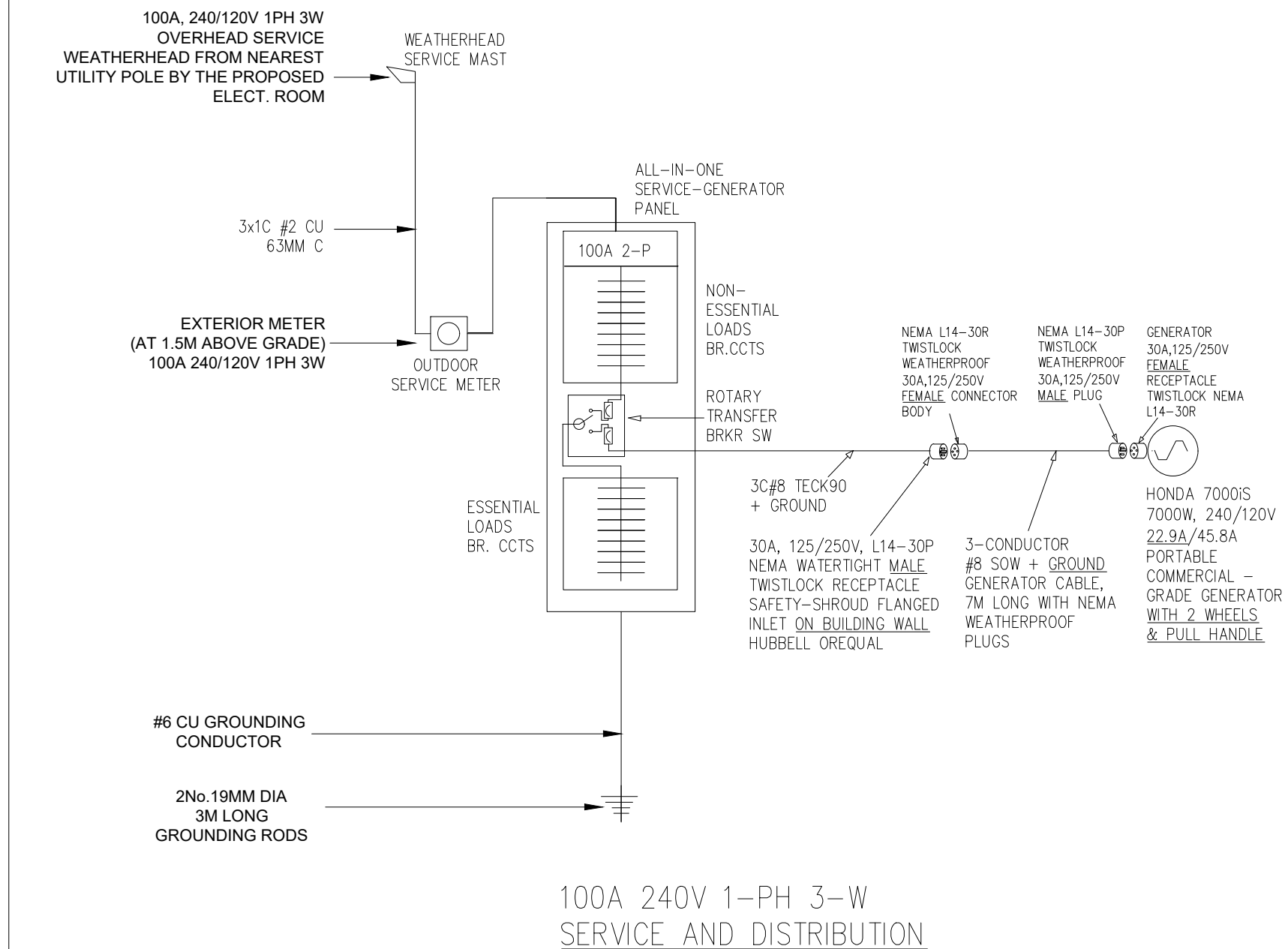
**SYMBOL LEGEND**

-  2' x 4' LED LUMINAIRE RATED FOR COLD WEATHER WITH (-40°C).
-  1' x 4' LED LUMINAIRE.
-  CUTOFF LED WALL-MOUNT LUMINAIRE DIE-ALUMINUM WEATHERPROOF HOUSING AND INTEGRAL PHOTOCELL, DARK SKY COMPLIANT, 3500K, 3532 LUMENS. 50W,120V;COOPER LIGHTING: XTOR5A-N.PC1;
-  WALL MOUNTED LINE VOLTAGE SWITCH.
-  3 WAY SWITCH
-  LIGHT SWITCH WITH OCCUPANCY SENSOR
-  WALL MOUNTED EMERGENCY BATTERYPACK 44W 120V IN 12V OUT c/w TWO REMOTE HEADS 2X4W LED
-  FLUSH MOUNTED EMERGENCY REMOTE TWIN HEAD WITH LAMP 12V 5-WATT MR16 LED 580.0093-L 1 OR XENON T3 1/4 LAMP 6V 6 -WATT 570.0213-L LUMACELL
-  WALL MOUNTED GREENMAN RUNNING LED EXIT SIGN C/W BATTERY BACKUP
- CW** COLD WEATHER RATED FOR -40°C
- NL** NIGHT LIGHT
-  WALL MOUNTED 30A, 125/250V, L14-30P NEMA WATERTIGHT MALE TWISTLOCK RECEPTACLE
-  WALL MOUNTED DUPLEX RECEPTACLE.
-  GFI DUPLEX RECEPTACLE, 15A, 120V
-  WALL MOUNTED DUPLEX RECEPTACLE c/w INTEGRAL USB CHARGING PORTS / COVER
-  WALL MOUNTED WEATHERPROOF DUPLEX RECEPTACLE c/w IN-USE HEAVY DUTY COVER
-  GFI T-SLOT DUPLEX RECEPTACLE, 20A, 120V
-  VEHICLE PROGRAMMABLE IPLC RECEPTACLE 120 V W/IN-USE EXTRA DUTY COVER
-  2-PORT ETHERNET CAT-6 OUTLET DATA / VOICE WITH CABLE TO PATCH PANEL IN ELECTRICAL ROOM
-  COMMUNICATION BACKBOARD 600MM (W) x 1200MM (H) C/W PATCH PANEL, MECHANICAL ALARM VOICE AUTO-DIALER
-  OVERHEAD DOOR OPENER (COORDINATE WITH DOOR VENDOR)
-  PANELBOARD
-  OVERHEAD SERVICE EXTERIOR WEATHERHEAD RIGID STEEL MAST AND SERVICE METER ON EXTERIOR WALL
-  OVERHEAD COMMUNICATION WEATHERHEAD AND WALL-MOUNT RIGID STEEL MAST SERVICE ENTRANCE AND EXTERIOR COMM DEMARCATION JUNCTION BOX.

**LOAD CALCULATIONS**

1. WAREHOUSE BASE LOAD  
208.15Q.M x 15W = 3986 W
2. OVERHEAD DOOR OPENERS  
2 X 2,000W = 4,000 W
3. EXTERIOR WP (VEHICLE) RECEPTACLES  
6 x 650W = 3,900 W
4. MECHANICAL LOADS  
ESTIMATED 5HP x 746W = 3,730 W
5. TOTAL  
@ 240/120V 1PH = 65 A 15,616 W

6. GRAND TOTAL 65 A  
PROVIDE 100A, 240/120V 1PH 3W SERVICE



PROJECT  
**QANP OPERATIONS GARAGE**

RESOLUTE, NU

No.	DATE	ISSUED FOR
2	04/14/2022	ISSUED FOR TENDER

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DRAWING

LEGEND AND SCHEMATIC

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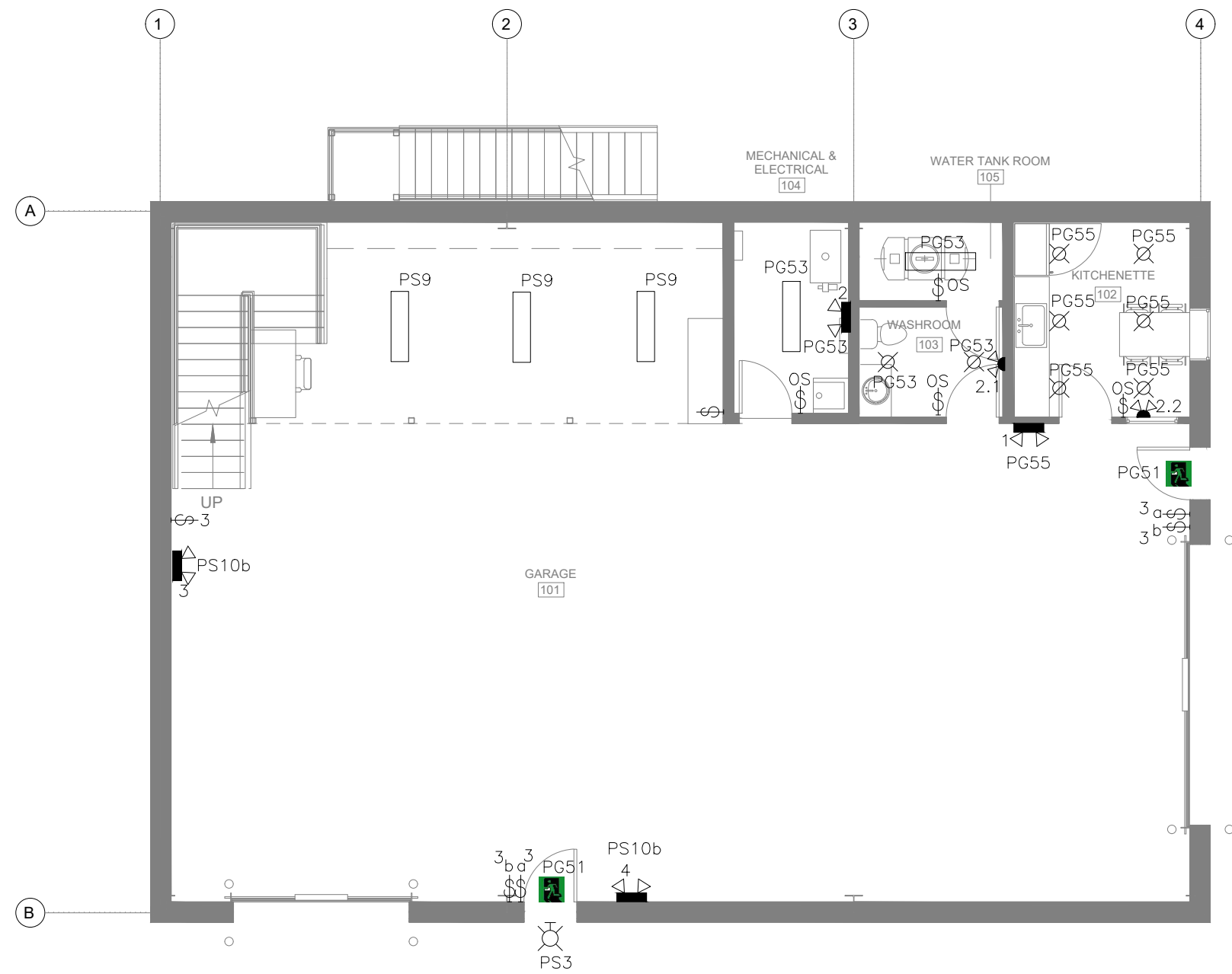
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FS	MC

PROJECT	SCALE
21109	NTS

**E200**



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PLAN-ENG CONSULTING INC.  
Signature: *Sif Sbovejo*  
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PERMIT NUMBER: P 563  
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PROJECT  
**QANP  
OPERATIONS  
GARAGE**

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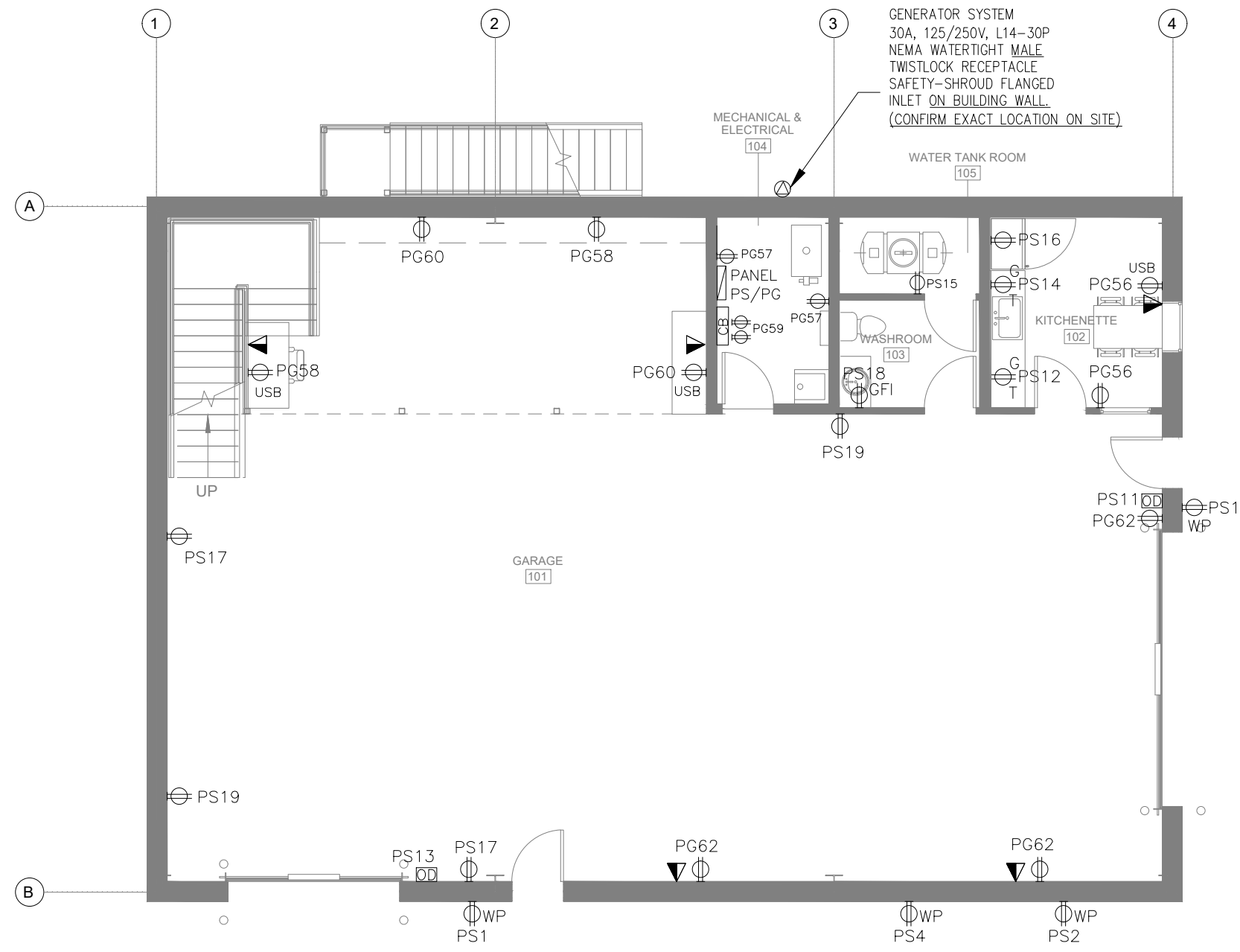
No.	DATE	ISSUED FOR
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DRAWING  
**FLOOR PLAN  
LIGHTING LAYOUT**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
PROJECT 21109	<b>E300</b>
SCALE 1:100	



PROJECT  
**QANP  
OPERATIONS  
GARAGE**

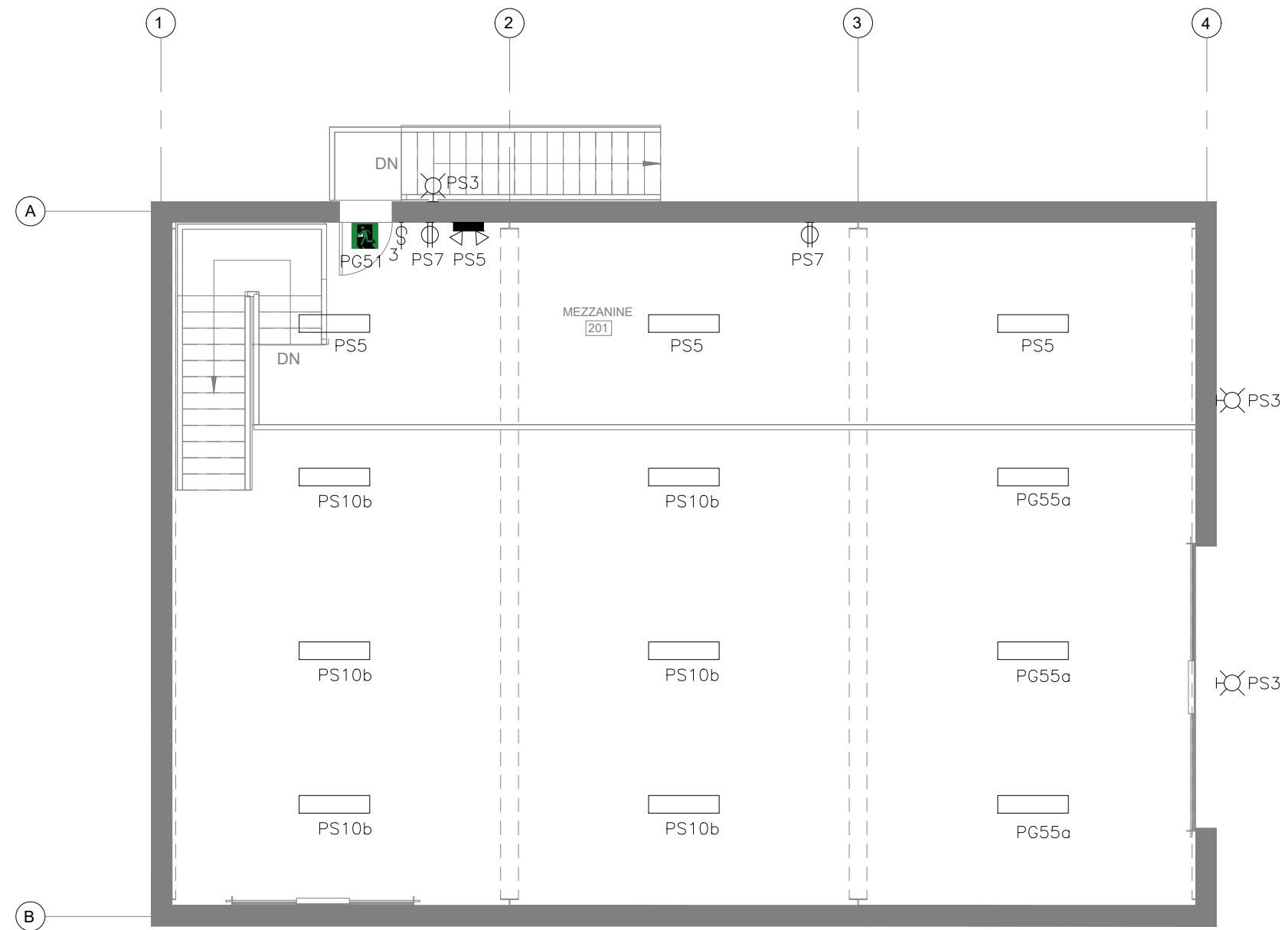
RESOLUTE, NU

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2	04/14/2022	ISSUED FOR TENDER

DRAWING  
**FLOOR PLAN  
ELECTRICAL  
LAYOUT**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
PROJECT 21109	<b>E301</b>
SCALE 1:100	



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OPERATIONS  
GARAGE**

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DRAWING  
**MEZZANINE FLOOR  
PLAN  
ELECTRICAL LAYOUT**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
PROJECT 21109	<b>E302</b>
SCALE 1:100	



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			PARKING WEATHER PROOF RECEPTACLE	2C#12	1	15	02	
03	15	1	2C#12	EXTERIOR LIGHTS			PARKING WEATHER PROOF RECEPTACLE	2C#12	1	15	04	
05	15	1	2C#12	MEZZANINE - LIGHTING			UH1- UNIT HEATER - GARAGE	2C#12	1	20	06	
07	15	1	2C#12	MEZZANINE - RECEPTACLES			UH2- UNIT HEATER - GARAGE	2C#12	1	20	08	
09	15	1	2C#12	NORTH GARAGE AREA LIGHTING			GARAGE LIGHTING	2C#12	1	15	10	
11	20	1	2C#12	OVERHEAD DOOR OPENER - GARAGE			KITCHENETTE T-SLOT 20A GFI RECEPTACLES	2C#12	1	20	12	
13	15	1	2C#12	OVERHEAD DOOR OPENER - GARAGE			KITCHENETTE T-SLOT 20A GFI RECEPTACLES	2C#12	1	20	14	
15	15	1	2C#12	WATER TANK RM - RECEPTACLE			FRIDGE - KITCHENETTE	2C#12	1	15	16	
17	15	1	2C#12	GARAGE AREA RECEPTACLES			WSHROOM RECEPTACLE/EXHAUST FAN	2C#12	1	15	18	
19	15	1	2C#12	GARAGE AREA RECEPTACLES				2C#12	1	15	20	
21	15	1	2C#12					2C#12	1	15	22	
23	15	1	2C#12					2C#12	1	15	24	
25	15	1	2C#12					2C#12	1	15	26	
27	15	1	2C#12					2C#12	1	15	28	
29	15	1	2C#12					2C#12	1	15	30	
31	15	1	2C#12					2C#12	1	15	32	
33	15	1	2C#12					2C#12	1	15	34	
35	15	1	2C#12					2C#12	1	15	36	
37	15	1	2C#12				PANEL PG	3C#6	2	60	38	
39											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	B1-BOILER			P3 - GLYCOL PUMP - BOILER RM	2C#12	1	15	42	
43	15	1	2C#12	P1-BOILER PUMP			P4 - HEATING COIL PUMP - GARAGE	2C#12	1	15	44	
45	15	1	2C#12						1	15	46	
47	15	1	2C#12	P8 - SEWAGE TANK HEAT TRACE - BOILER RM.			P7 DOMESTIC HOT WATER PRIMARY - BOILER RM	2C#12	1	15	48	
49	30	1	2C#12	P9-DOMESTIC WATER PRESSURE-WATER TANK RM.			HRV1 - VENTILATION UNIT - GARAGE	2C#12	1	15	50	
51	15	1	2C#12	EXIT SIGN			MUA1 - MAKE UP AIR UNIT - MAINTENANCE	2C#12	1	20	52	
53	15	1	2C#12	WASHRM/WATER TANK RM/MECH/ELECT RM. LTG.			EF1 - EXHAUST FAN - MAINTENANCE	2C#12	1	20	54	
55	15	1	2C#12	GARAGE/KITCHENETTE LIGHTING			KITCHENETTE RECEPTACLES	2C#12	1	15	56	
57	15	1	2C#12	MECHANICAL/ELECTRICAL RM RECEPTACLES			NORTH GARAGE OFFICE AREA RECEPTACLES	2C#12	1	15	58	
59	15	1	2C#12	COMMUNICATION BACKBOARD RECEPT.-ELECT. RM			NORTH GARAGE OFFICE AREA RECEPTACLES	2C#12	1	15	60	
61	15	1		SPARE			GARAGE AREA RECEPTACLES	2C#12	1	15	62	
63	15	1		SPARE					1	15	64	
65	15	1		SPARE					1	15	66	
67	15	1		SPARE					1	15	68	
69	15	1		SPARE					1	15	70	
71	15	1		SPARE					1	15	72	
73	15	1							1	15	74	
75	15	1							1	15	76	
77	15	1							1	15	78	
79	15	1								15	80	

NOTES:

- TANDAM MICRO-BREAKERS SHALL BE USED. PANEL SHALL BE SQUARE-D OR PRIOR APPROVED EQUAL
- REFER TO E200 & E301 FOR NEW SERVICE PANEL LOCATION AND THE SCHEMATIC

PROJECT

**QANP  
OPERATIONS  
GARAGE**

RESOLUTE, NU

No.	DATE	ISSUED FOR
2	04/14/2022	ISSUED FOR TENDER

MM/DD/YY

DRAWING

**ELECTRICAL  
PANEL  
SCHEDULES**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
PROJECT 21109	<b>E400</b>
SCALE NTS	



Motor & Control Data																	
Unit No.	Description	Location	Model	Motor hp	Volt	Ph	Hz	Control	Pilot Dev.	Supply Starter	Supply Pilot.	Supply Disc.	Description of Interlocks & Controls	Comments	PANEL CCT.#	BR.CCT.CONDUCT	
	<b>Project:</b> QANP GARAGE			<b>Project No.:</b> 21-035										<b>Date:</b> 2022-03-31			
	RESOLUTE, NU			<b>Submission:</b> 21-035										<b>Design:</b> JH			
														<b>Checked:</b>			
B1	BOILER	BOILER RM	WEIL MCLAIN WGO7	1/6 HP	115	1	60	ON/OFF	TC	ELECT	MECH	ELECT		15 AMP CIRCUIT	PG41	2C#12	
P1	HEATING PUMP	BOILER RM	GRUNDFOS ALPHA2 26-99FC	1/6 HP	115	1	60	ON/OFF	HS	ELECT	MECH	ELECT			PG43	2C#12	
P2	HEATING PUMP	BOILER RM	GRUNDFOS ALPHA2 26-99FC	1/6 HP	115	1	60	ON/OFF	HS	ELECT	MECH	ELECT		NOT USED			
P3	GLYCOL PUMP	BOILER RM	AXIOM DMF150	FRAC	115	1	60	ON/OFF	PC	N/A	MECH	n/a		15A RECEPTACLE	PG42	2C#12	
P4	HEATING COIL PUMP	GARAGE	GRUNDFOS ALPHA2 15-55FC	1/16 HP	115	1	60	ON/OFF	HS	ELECT	MECH	ELECT		MUA1	PG44	2C#12	
P6	HEATING COIL PUMP	GARAGE	GRUNDFOS ALPHA2 15-55FC	1/16 HP	115	1	60	ON/OFF	HS	ELECT	MECH	ELECT		NOT USED			
P7	DOMESTIC HOT WATER PRIMARY	BOILER RM	GRUNDFOS ALPHA2 26-99FC	1/6 HP	115	1	60	ON/OFF	TC	ELECT	MECH	ELECT			PG48	2C#12	
P8	SEWAGE TANK HEAT TRACE	BOILER RM	GRUNDFOS ALPHA2 26-99FC	1/6 HP	115	1	60	ON/OFF	TC	ELECT	MECH	ELECT			PG47	2C#12	
HRV1	VENTILATION UNIT	GARAGE	NU-AIR NU305HRV	2X1/4 HP	115	1	60	ON/OFF	MC	n/a	MECH	n/a		15A RECEPTACLE	PG50	2C#12	
MUA1	MAKEUP AIR UNIT	MAINTENANCE	ESP LOV LV140	1/2 HP	115	1	60	HOA	HS,LC	ELECT	MECH	ELECT	EF1, GAS MONITOR		PG52	2C#12	
EF1	EXHAUST FAN	MAINTENANCE	ESP LOV LV140-BU	1/2 HP	115	1	60	HOA	HS,LC	ELECT	MECH	ELECT	MUA1, GAS MONITOR		PG54	2C#12	
UH1	UNIT HEATER	GARAGE	ENGINEERED AIR H7	1/2 HP	115	1	60	ON/OFF	TC	ELECT	MECH	ELECT	ZONE VALVE		PS6	2C#12	
UH2	UNIT HEATER	GARAGE	ENGINEERED AIR H7	1/2 HP	115	1	60	ON/OFF	TC	ELECT	MECH	ELECT	ZONE VALVE		PS8	2C#12	
P9	DOMESTIC WATER PRESSURE	WATER TANK ROOM	GRUNDFOS SCALA	3/4 HP	115	1	60	ON/OFF	PC	N/A	MECH	ELECT	SEWAGE HI		PG49	2C#12	
<b>Control</b>		<b>Pilot Device</b>															
	On/Off - c/w pilot light		LC-level control					HS-handswitch						MC-humidity control			C-timeclock
	H.O.A.		TC-temp control					I-Interlock						PC-pressure control			

PROJECT  
**QANP OPERATIONS GARAGE**

RESOLUTE, NU

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DRAWING  
**MECHANICAL LOAD SCHEDULE**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
PROJECT 21114	<b>E500</b>
SCALE NTS	



## LUMINAIRE SCHEDULE

SYMBOL	TYPE	MANUFACTURER	DESCRIPTION	LAMP	VOLTS, WATTS	TEMP, LUMENS	LOCATION	MOUNTING
	L1	COOPER METALUX	1 X 4 LED FIXTURE COMPLETE WITH ELECTRONIC DRIVERS 4ILED-LD5-16-W-FL-UNV-L840-C	LED	120V	4000K, 12,356LUMENS	GARAGE AREA	CEILING CHAIN SUSPENDED / SURFACE MOUNTED
	L2	COOPER METALUX	1 X 4 LED FIXTURE COMPLETE WITH ELECTRONIC DRIVERS 4ILED-LD5-5-W-FL-UNV-L840-CD	LED	120V	4000K, 3829LUMENS	KITCHENETTE/WATER TANK RM MECHANICAL/ELECTRICAL RM NORTH GARAGE OFFICE AREA	CEILING SURFACE MOUNTED
	L3	COOPER METALUX	1.2M (4FT) STRIP LED FIXTURE COMPLETE WITH ELECTRONIC DRIVERS 4000K 4000L 80CRI 4SLSTP4040DD-UNV	LED	120V	4000K, 4000LUMENS	WASHROOM	CEILING SURFACE MOUNTED
	L4	COOPER	CUTOFF LED WALL-MOUNT LUMINAIRE DIE-ALUMINUM WEATHERPROOF HOUSING AND INTEGRAL PHOTOCELL, DARK SKY COMPLIANT, 50W,120V;COOPER LIGHTING: XTOR5A-N.PC1	LED	120V	3500K, 3532LUMENS	EXTERIOR	WALL MOUNTED
	L5	AIMLITE	DELUGE-RPN MODEL: EXIT PICTOGRAM LONG LIFE LED LIGHT SOURCE EXIT SIGN C/W 30-MIN. SEALED NICKEL -CADMIUM BATTERY; AUTO-TEST; SINGLE FACE; RATED -40C, IP66	LED	120V		INTERIOR	WALL MOUNTED
	L6	AIMLITE	DELUGE-EBN RPN: EMERGENCY LIGHT BATTERYPACK C/W 2x5W LED SWIVEL LAMP, 30-MIN. SEALED NICKEL -CADMIUM BATTERY; AUTO-TEST; RATED -40C, IP66	LED	120V		INTERIOR	WALL MOUNTED
	L7	COOPER METALUX	INTERIOR JUNCTION BOX - MOUNTED RECESSED 6" FIXTURE:12W, 1000 LUMENS 3000K DIMMABLE ELECTRONIC DRIVERS	LED	120V	3000K,1000LUMENS	KITCHENETTE/WASHROOM	CEILING RECESSED MOUNTED.

PROJECT

**QANP  
OPERATIONS  
GARAGE**

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DRAWING

**LUMINAIRE  
SCHEDULE**

DO NOT SCALE FOR DIMENSIONS

DESIGN FS	DRAWN MC
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PROJECT 21109	<b>E600</b>
SCALE	
NTS	