Christchurch City Council
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BCN/2022/5630
Approved Building Consent Document
19/10/2022 Nilsson, Michael

INDUSTRIAL DEVELOPMENT

BUILDING CONSENT 04.10.2022

LOT 6/61 BELFAST ROAD BELFAST CHRISTCHURCH

architecture studio
architecture | interior design

Christchurch City Council
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COMMON ABBREVIATIONS

AP	ACCESS PANEL
AS	AUSTRALIAN STANDARD
BCA	BUILDING CONSENT AUTHORITY
B/S	BOTH SIDES
CODE	BUILDING CODE
CL	CENTRE LINE
CRS	CENTRES
COS	CHECK (CONFIRM) ON SITE
CHS	CIRCULAR HOLLOW SECTION
CB	COACH BOLT
CG	CEILING GRID
CS	COACH SCREW
CONC	CONCRETE
CJ	CONTROL JOINT
CUPD	CUPBOARD
DPC	DAMP PROOF COURSE
DPM	DAMP PROOF MEMBRANE
DIA Ø	DIAMETER
DIM	DIMENSION
DHS	COLD ROLLED STEEL PURLIN / GIRT
DB	DISTRIBUTION BOARD
DG	DOUBLE GLAZING
DP	DOWNPIPE
DWG	DRAWING
DW	DISHWASHER
EJ	EXPANSION JOINT
EQ	EQUAL
EA	EQUAL ANGLE
EGL	EXISTING GROUND LEVEL
FA	FROM ABOVE
FHR	FIRE HOSE REEL
FG	FIXED GLAZING
FFL	FINISHED FLOOR LEVEL
FGL	FINISHED GROUND LEVEL
FIN	FINISHED
FR	FRIDGE (REFRIDGERATOR)
FWG	FLOOR WASTE GULLY
FRR	FIRE RESISTANCE RATING
GT	GULLY TRAP
GALV	GALVANISED
GFA	GROSS FLOOR AREA
HORZ	HORIZONTAL
HDG	HOT DIPPED GALVANISED
HT	HOSE TAP
HWC	HOT WATER CYLINDER
ID	INSIDE DIAMETER
IL	INVERT LEVEL
IP	INSPECTION POINT
KW	KILOWATT
KVA	KILO-VOLT-AMPERE
MAX	MAXIMUM
MS	MILD STEEL
M	METRES
MM	MILLIMETRE
MIN	MINIMUM
MSB	MAIN SWITCH BOARD
M²	SQUARE METER
NZS	NEW ZEALAND STANDARD
NZBC	NEW ZEALAND BUILDING CODE
NOM	NOMINAL
NTS	NOT TO SCALE
NLFA	NET LESSABLE FLOOR AREA
OD	OUTSIDE DIAMETER
O/A	OVERALL
O/F	OVER FLOW
O/H	OVERHEAD
OV	OVEN
PFC	PARALLEL FLANGE CHANNEL
PC	PRECAST PANEL
R	RADIUS
REF	REFERENCE / REFER
REV	REVISION
RC	REINFORCED CONCRETE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RHS	ROLLED HOLLOW SECTION
RH	RANGEHOOD
RWH	RAIN WATER HEAD
SK	SINK
SH	SHOWER
SIM	SIMILAR
SPEC	SPECIFICATION
SHS	SQUARE HOLLOW SECTION
SPC	STEEL PROFILE COLORCOTE/COLORSTEEL
SPZ	STEEL PROFILE ZINCALUME
SS	STAINLESS STEEL
STC	SOUND TRANSIMITION CLASS
TB	TIMBER BATTENS
TV	TERMINIAL VENT
T&G	TOUNGE AND GROOVE
U/S	UNDERSIDE
UB	UNIVERSAL BEAM
UC	UNIVERSAL COLUMN
UR	URINAL
VERT	VERTICAL
WHB	WASH HAND BASIN
WC	WATER CLOSET (TOILET)

DRAWING ANNOTATION SYMBOLS

LEVELS

LEVELS ARE SHOWN IN TERMS OF CITY DATUM (MEAN SEA LEVEL = 0)
LEVELS ARE AS PER AS1000 301 - 1985

⊠ SPOT LEVEL / RL

EGL EXISTING LEVEL

FFL FINISHED FLOOR LEVEL

CEILING LEVELS

CL: 2400 AFL CEILING LEVEL ABOVE FLOOR LEVEL

INTERIOR ELEVATION KEY

1
2 A7.01 4 WALL REFERENCE FOR INTERNAL ELEVATIONS
3

AREA CALCULATION METHODOLOGY

CALCULATION METHODOLOGY HAS BEEN BASED ON THE 2010 BOMA STANDARD OF MEASUREMENT FOR OFFICE SPACES AND IS SUMMARISED AS FOLLOWS:

GROSS FLOOR AREA:
LINE OF EXTERNAL FACE OF EXTERIOR WALLS AND CENTRELINE OF INTER-TENANCY WALLS

NET LESSABLE FLOOR AREA:
LINE OF INTERNAL FACE OF EXTERIOR WALLS AND CENTRELINE OF INTER-TENANCY WALLS

AREA SCHEDULE:

ITEM	AREA	COVERAGE %
SITE AREA	= 2660M²	
GROSS BUILDING AREA	= 1229M²	
BUILDING SITE COVERAGE	= 1084M²	46.20%
SOFT LANDSCAPING	= 184.3M²	6.9%
IMPERVIOUS SURFACES	= 1391.6M²	52.3%

THE ARCHITECTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ASSOCIATED SPECIFICATIONS AND CONDITIONS OF CONTRACT. THE DRAWINGS SHALL ALSO BE READ IN CONJUNCTION WITH THE STRUCTURAL, SERVICES, CIVIL AND OTHER PROJECT DOCUMENTS. ANY DISCREPANCIES IN THE ARCHITECTURAL DRAWINGS OR BETWEEN ARCHITECTURAL AND CONSULTANT DOCUMENTS SHALL BE REFERRED TO ARCHITECTURE STUDIO FOR RESOLUTION.

VERIFY ALL DIMENSIONS WITH STRUCTURAL, SERVICES, CIVIL AND OTHER PROJECT DOCUMENTS PRIOR TO CONSTRUCTION COMMENCING. REFER ALL DISCREPANCIES TO ARCHITECTURE STUDIO FOR RESOLUTION.

SUBSTITUTION FOR OR AMENDMENT OF SPECIFIED DETAILS OR MATERIAL SHALL NOT BE CARRIED OUT WITHOUT PRIOR APPROVAL OF ARCHITECTURE STUDIO.

ALL WORK SHALL COMPLY WITH THE NZBC, ALL RELEVANT LOCAL AUTHORITY BYLAWS, NZS 3604, AND ALL RELEVANT STANDARDS.

ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION PROVIDED.

ALL WORK TO BE UNDERTAKEN TO BE BEST TRADE PRACTICE FOR EACH RESPECTIVE TRADE. ANY SUBSTANDARD WORK OR BUILDING MATERIAL DEFECTS SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE, REPAIR OR REPLACE AT NO EXTRA COST TO THE CONTRACT.

THE CONTRACTOR SHALL ENSURE THAT ALL RUBBISH IS REMOVED FROM SITE DURING AND AT THE END OF THE CONTRACT WORKS AND FINAL PROFESSIONAL COMMERCIAL CLEAN.

THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE TEMPORARY FENCING, HOARDING, GUARDRAILS AND SIGNAGE AS NECESSARY TO PROTECT THE PUBLIC AND OTHERS DURING THE CONTRACT WORKS AND TO MEET THE REQUIREMENTS OF THE LOCAL AND TERRITORIAL AUTHORITIES.

ALL TIMBER SHALL BE H1.2 TREATED GRADED SG-8 UNLESS STATED OTHERWISE.

REFER TO THE STRUCTURAL ENGINEER'S DRAWINGS AND SPECIFICATION FOR STEELWORK AND TIMBER FRAMING SIZES.

REFER TO THE SERVICE CONSULTANTS DRAWINGS AND SPECIFICATION FOR ALL SERVICES AND EQUIPMENT REQUIREMENTS.

FIRE INTUMESCENT PAINT TO BE PRICED AND APPLIED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTURCTION

ACCESSIBILITY LEGEND



INDICATES ACCESSIBLE ROUTE 1200MM WIDE MINIMUM

ACCESSIBLE ROUTE SIGNAGE:
SIGNAGE REQUIRED ON EXTERIOR OF BUILDING AT MAIN POINT OF ENTRY ON ACCESSIBLE ROUTE. ALSO LOCATED AT INTERNAL ACCESSIBLE FACILITIES AND DIRECTIONAL ARROWS WHERE REQUIRED IN ACCORDANCE WITH NZS 4121:2001- 4.9
FIX 120 x 120MM x 1.5MM THICK RIGID PVC ACCESSIBLE SIGNAGE BETWEEN 1400 x 1700MM ABOVE FFL TO LOWER EDGE OF SIGN.
BLUE BACKGROUND WITH WHITE BORDER AND SYMBOL.



AMENITIES SIGNAGE:
FIX 120 x 120MM x 1.5MM THICK RIGID PVC ACCESSIBLE SIGNAGE BETWEEN 1400 AND 1700MM ABOVE FFL TO LOWER EDGE OF SIGN ON ALL MALE, FEMALE AND UNISEX FACILITIES. BLUE BACKGROUND WITH WHITE BORDER AND SYMBOL.

ELECTRICAL SWITCHES AND SOCKET OUTLET

SWICTHES FOR ELECTRIC LIGHT AND POWER SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. ALL LIGHT SWITCHES SHALL BE HORIZONTALLY ALIGNED WITH DOOR HANDLES AT 900 - 1200MM OPTIMUM ABOVE FFL.

2. THE PUSH BUTTON CONTROL OF LIGHT SWITCHES SHALL PROJECT CLEAR OF THE SWITCH PLATE.

3. SOCKETS SHALL BE FIXED BETWEEN 500 AND 1200MM ABOVE FFL AND AT LEAST 500MM FROM CORNERS AND WITHIN A 500MM HORIZONTAL DIMENSION FROM THE FRONT OF ANY BENCH OR FIXED UNIT.

4. ALL FITTINGS WITHIN THE ACCESSIBLE TOILETS AND SHOWERS ARE TO COMPLY WITH NZS:4121 ACCESS & MOBILITY

5. ELECTRONIC ACCESS UNITS FOR SWIPE CARDS, KEY PADS, DOOR ACTIVATING BUTTONS, ETC. SHALL HAVE A LEVEL, STABLE, FIRM, SLIP RESISTANT FLOOR SURFACE OF 1200 X 1200MM MINIMUM ADJACENT TO THE ACCESS UNIT; BE INSTALLED ADJACENT TO THE DOOR UNDER CONTROL AT 900 - 1200MM (1000MM OPTIMAL) ABOVE FFL; AT LEAST 500MM FROM INTERNAL CORNERS; AND HAVE SUFFICIENT TIME DELAY FOR THE DOOR TO BE OPENED BEFORE THE LOCKING SYSTEM RE-ACTIVATES.

REFER TO SPECIFICATION FOR FITTING AND FIXTURE DETAILS

DRAWING REFERENCE SCHEDULE

A0. SITE PLANS
A0.01 PROPOSED SITE PLAN

A1. FLOOR PLANS
A1.01 OVERALL GROUND FLOOR PLAN
A1.02 OFFICE FLOOR PLANS
A1.03 ROOF PLAN
A1.04 RACKING PLAN

A2. ELEVATIONS
A2.01 ELEVATIONS
A2.02 PERSPECTIVE
A2.03 OFFICE 3D VIEW
A2.04 LOT 6 ISOMETRIC VIEW

A3. CROSS SECTIONS
A3.01 CROSS SECTIONS
A3.02 CROSS SECTIONS
A3.03 CROSS SECTIONS 3D

A4.1 FOUNDATION DETAILS
A4.1.01 FOUNDATION DETAILS

A4.2 EXTERNAL WALL DETAILS
A4.2.01 EXTERNAL WALL DETAILS

A4.3 EXTERNAL WINDOW & DOOR DETAILS
A4.3.01 EXTERNAL WINDOW & DOOR DETAILS
A4.3.02 EXTERNAL WINDOW & DOOR DETAILS

A4.4 ROOF DETAILS
A4.4.01 ROOF DETAILS
A4.4.02 ROOF DETAILS
A4.4.03 ROOF DETAILS

A4.5 STAIR & LIFT DETAILS
A4.5.01 STAIR DETAILS

A4.6 INTERNAL DETAILS
A4.6.01 INTERNAL DETAILS
A4.6.02 INTERNAL DETAILS

A4.7 JOINERY DETAILS
A4.7.01 JOINERY DETAILS

A4.8 PLUMBING & DRAINAGE DETAILS
A4.8.01 PLUMBING & DRAINAGE DETAILS

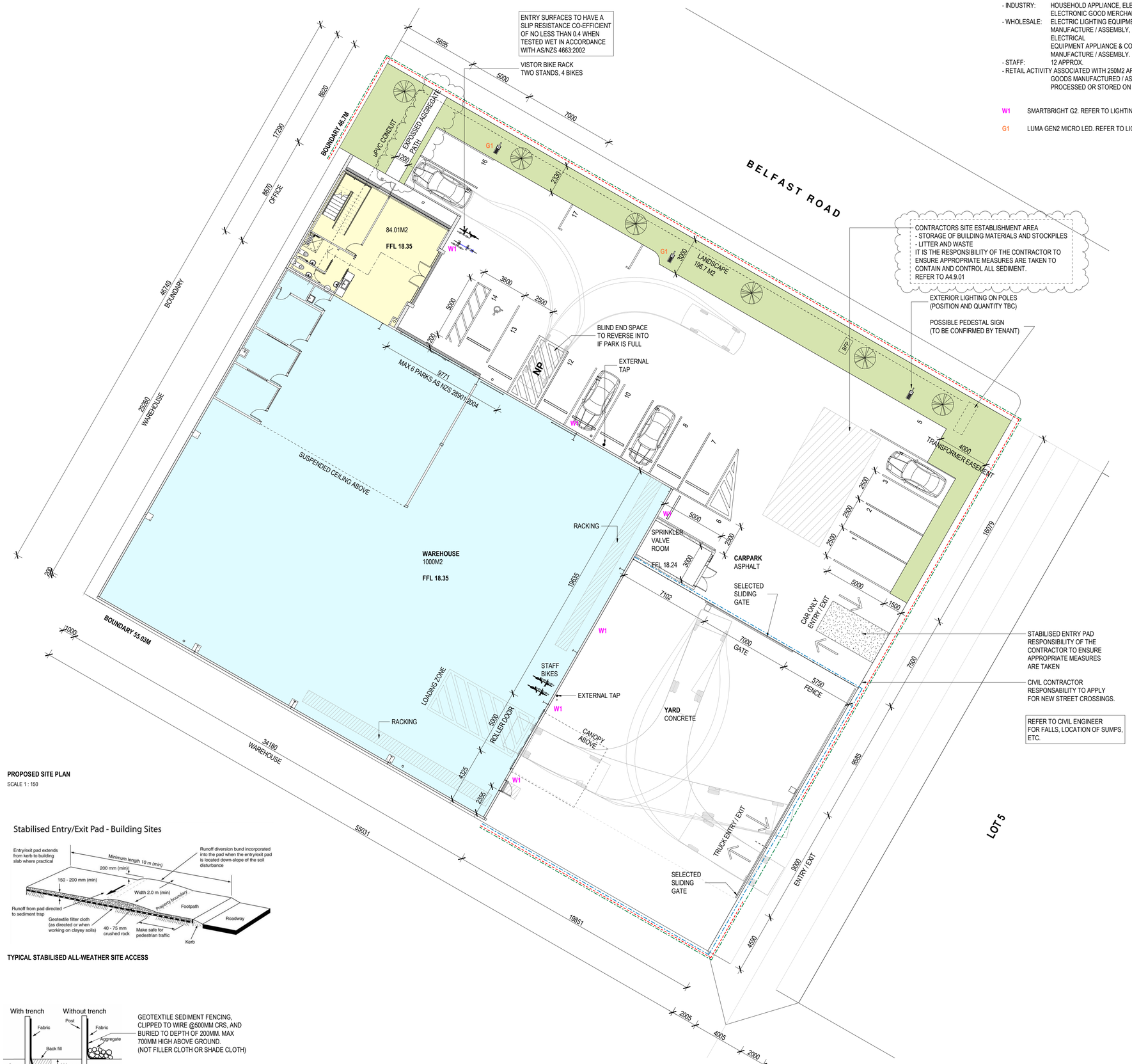
A4.9 SITEWORKS DETAILS
A4.9.01 SITEWORKS DETAILS

A5. WINDOW & DOOR SCHEDULE
A5.01 WINDOW & DOOR SCHEDULE
A5.02 WINDOW & DOOR SCHEDULE

A6. REFLECTED CEILING PLANS
A6.01 REFLECTED CEILING PLAN

A7. INTERNAL ELEVATIONS
A7.01 INTERNAL ELEVATIONS

A8. PLUMBING & DRAINAGE PLANS
A8.01 PLUMBING & DRAINAGE PLAN
A8.02 PLUMBING & DRAINAGE PLAN (DETAILED)



PROPOSED SITE PLAN

SCALE 1 : 150

- INDUSTRY: HOUSEHOLD APPLIANCE, ELECTRICAL & ELECTRONIC GOOD MERCHANT
- WHOLESALE: ELECTRIC LIGHTING EQUIPMENT MANUFACTURE / ASSEMBLY, ELECTRICAL EQUIPMENT APPLIANCE & COMPONENT MANUFACTURE / ASSEMBLY.
- STAFF: 12 APPROX.
- RETAIL ACTIVITY ASSOCIATED WITH 250M2 AREA: GOODS MANUFACTURED / ASSEMBLED, PROCESSED OR STORED ON THE SITE.

W1 SMARTBRIGHT G2. REFER TO LIGHTING DESIGN.

G1 LUMA GEN2 MICRO LED. REFER TO LIGHTING DESIGN.

NOTE:
REFER TO TOPOGRAPHIC PLAN FOR SITE BOUNDARY & EXISTING TOPOGRAPHICAL LEVELS

REFER TO ENGENIUM CONSULTING ENGINEERS FOR ALL SITE CIVIL & DRAINAGE WORK BEYOND BUILDING FOOTPRINT.

ADDRESS	LOT 6/61 BELFAST ROAD
LEGAL DESCRIPTION	LOT 3 DP 487191
TERRITORIAL AUTHORITY	CHRISTCHURCH CITY COUNCIL
LAND USE ZONE	INDUSTRIAL ZONE
ZONES	
EQ	ZONE 2
WIND	HIGH
SNOW	N4
EXPOSURE	ZONE C
SITE AREA	
TOTAL	2660 M²
PROPOSED WAREHOUSE GFA	1000 M²
PROPOSED OFFICE GROUND FLOOR GFA	84.01 M²
PROPOSED OFFICE FIRST FLOOR GFA	145.07 M²
TOTAL GFA	1229.08 M²
SITE COVERAGE	46.20%
PROPOSED LANDSCAPING AREA	196.7 M²
PROPOSED IMPERVIOUS SURFACE AREA	1229.92 M²

TEMPORARY SITE FENCING / HOARDINGS TO BE PROVIDED DURING CONSTRUCTION TO COMPLY WITH NZBC F5/AS1.

SEDIMENT CONTROL.

NEW "HURRICANE " SECURITY FENCING. 50mm Ø DIA TERMINATION & INTERMEDIATE GALVANISED STEEL PIPE POSTSWITH METAL CAPS. SET ALL POSTS 800mm INTO GROUND WITH CONCRETE. 50mm X 3.15mm GALVANISED CHAIN LINK NETTING. (1800mm TOTAL HEIGHT) 3 ROWS OF BARBED WIRE. FINISH : **BLACK PAINTED GALV. STEEL**
PROVIDE ALL THE NECESSARY STRAINERS AND BRACES AS RECOMMENDED BY THE MANUFACTURER.

GARDEN - SUPPLY AND SPREAD EVENLY TO ALL GARDEN AREAS NEW TOP SOIL. MINIMUM DEPTH OF NEW SOIL MUST BE 300mm. REFER TO OWNER FOR PLANTING.

U5- ROLLER/ SPONGE FINISH 100mm THICK COLOURED CONCRETE.

WHEEL STOP — PROVIDE STANDARD PRECAST CONCRETE WHEEL STOPS.

YELLOW HATCHING. WHITE — ROAD MARKINGS - PROVIDE ROAD MARKING TO THE CAR PARK AREAS SHOWN ON THE DRAWINGS. MARKING SHALL CONSIST OF ONE SINGLE WHITE LINE. PROVIDE STANDARD ROAD MARKING TO ACCESSIBLE PARKS AS SHOWN ON THE DRAWINGS INCLUDING ACCESSIBLE PARK SYMBOL.

T1 — SUPPLY AND PLANT 3.6M HIGH (160 LITRE BAGS) PIN OAK READY TREES (SPECIES TO BE CONFIRMED)@ @10 METRES ACCORDING TO SECTION 16.5.2.6 OF THE CHRISTCHURCH DISTRICT PLAN. SITEWORKS TRADE TO DIG HOLES FOR NEW TREES.

BFP — PROPOSED LOCATION OF BACK FLOW PREVENTER.

EROSION AND SEDIMENT CONTROL

THE CONTRACTOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING THE DEMOLITION PROCESS.

RUNOFF WATER CONTAINING SEDIMENT OR SILT SHALL NOT DISCHARGE ONTO ANY NEIGHBORING BOUNDARY.

EROSION AND SEDIMENT CONTROL CAN BE ACHIEVED BY CONSTRUCTING A TEMPORARY SEDIMENT / SILT TRAP ACROSS THE NEW SITE ACCESS POINT(S) BY ONE OF THE FOLLOWING METHODS:
- PLACE WELL COMPACTED HAY BALES INTO A 200MM DEEP TRENCH. BALES ARE TO BE TIED TOGETHER CLOSING ALL GAPS AND ANCHORED TO THE GROUND BY STEEL OR TIMBER STAKES.
- INSTALL PROPRIETARY BIDIM SC04 FILTER ROLL OR SIMILAR APPROVED.
- IF AVAILABLE, USE NATURAL SOIL FROM THE SITE TO FORM AN EARTH BUND 1.5M WIDE AND THE SITE UPSTREAM OF THIS BUND EXCAVATED TO A MINIMUM DEPTH OF 200MM.

ALONG ALL OTHER BOUNDARIES CONTROL SEDIMENT WITHIN THE SITE BY CONSTRUCTING A SILT FENCE WITH BIDIM A24 GEOTEXTILE OR SIMILAR APPROVED FABRIC. EXCAVATED STOCKPILE MATERIAL CAN BE USED BY THE SAME METHOD TO FORM A SILT PILE FENCE WHERE A NATURAL WATER COURSE WILL FLOW.

REGULAR INSPECTIONS AND MAINTAINED MUST BE CARRIED OUT TO ENSURE ALL SEDIMENT AND SILT TRAPS ARE IN WORKING ORDER. SEDIMENT AND SILT BUILD UP ARE TO BE REMOVED REGULARLY TO AVOID POTENTIAL OVERFLOW. INSPECTIONS AND MAINTENANCE ARE TO BE CARRIED OUT OVER WEEKENDS, HOLIDAYS AND WHEN SITES ARE NOT FREQUENTED BY THE CONTRACTOR.

STOCK PILES OF CLAY MATERIAL TO BE COVERED WITH IMPERVIOUS SHEET.

ALL GROUND COVER VEGETATION OUTSIDE THE IMMEDIATE BUILDING AREA TO BE PRESERVED DURING THE BUILDING PHASE.

THE CONTRACTOR SHALL SUBMIT THEIR PROPOSED METHOD OF CONTROL FOR EROSION AND SEDIMENT COMPLETE WITH SKETCHES BEFORE COMMENCING ANY SITE WORKS.
THE PROPOSED METHOD OF CONTROL IS TO BE DESIGNED BY A SUITABLY QUALIFIED PERSON.

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ENGENIUM CONSULTING ENGINEERS
POWELL FENWICK

INDUSTRIAL DEVELOPMENT
LOT 6/61 BELFAST ROAD
BELFAST ROAD
CHRISTCHURCH

PROPOSED SITE PLAN

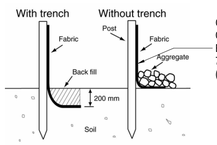
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DATE	04.10.2022
JOB No.	2154
DRAWN	NLC
CHECKED	RT
STATUS	BUILDING CONSENT
DRAWING No.	**REVISION**
A0.01	B

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Stabilised Entry/Exit Pad - Building Sites

TYPICAL STABILISED ALL-WEATHER SITE ACCESS



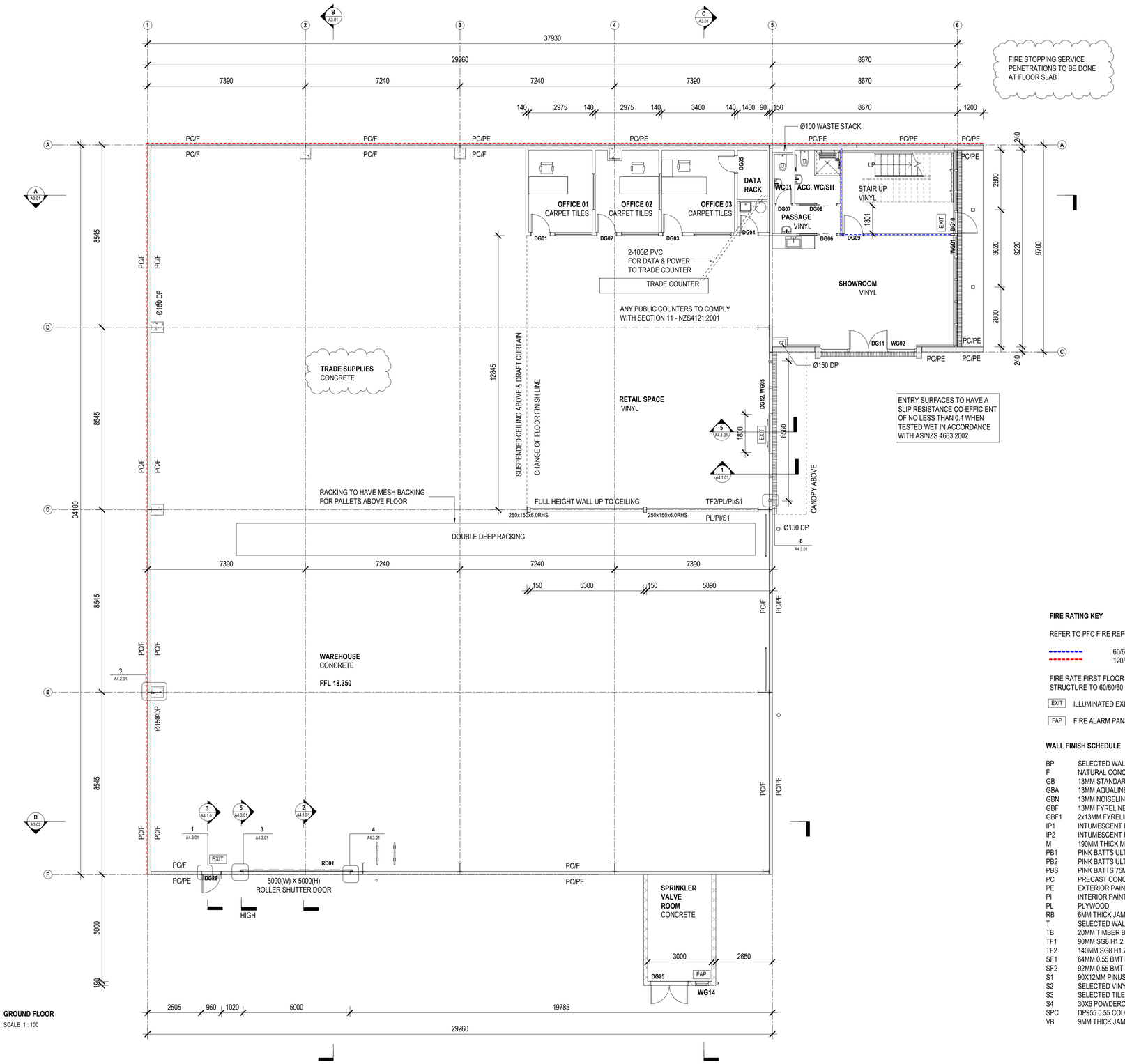
GEOTEXTILE SEDIMENT FENCING, CLIPPED TO WIRE @500MM CRS, AND BURIED TO DEPTH OF 200MM. MAX 700MM HIGH ABOVE GROUND. (NOT FILLER CLOTH OR SHADE CLOTH)

ALTERNATIVE SEDIMENT FENCE INSTALLATIONS



LOCATION FROM GOOGLE EARTH

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GROUND FLOOR
SCALE 1 : 100

FIRE RATING KEY

REFER TO PFC FIRE REPORT FOR DETAILS

60/60/60 FRR
120/120/120 FRR

FIRE RATE FIRST FLOOR SUPPORT STRUCTURE TO 60/60/60 FRR

EXIT ILLUMINATED EXIT SIGNS TO NZBC F8

FAP FIRE ALARM PANEL

WALL FINISH SCHEDULE

BP	SELECTED WALL UNDERLAY
F	NATURAL CONCRETE - FAIRFACE
GB	13MM STANDARD GIB BOARD
GBA	13MM AQUALINE GIB BOARD
GBN	13MM NOISELINE GIB BOARD
GBF	13MM FYRELINE GIB BOARD GBTL 60
GBF1	2x13MM FYRELINE GIB BOARD GBUW 60
IP1	INTUMESCENT PAINT - 120 MIN
IP2	INTUMESCENT PAINT - 60 MIN
M	190MM THICK MASONRY WALL
PB1	PINK BATTS ULTRA R2.6 THERMAL INSULATION
PB2	PINK BATTS ULTRA R3.2 THERMAL INSULATION
PBS	PINK BATTS 75MM THICK SILENCER
PC	PRECAST CONCRETE PANEL
PE	EXTERIOR PAINT FINISH
PI	INTERIOR PAINT FINISH
PL	PLYWOOD
RB	6MM THICK JAMES HARDIE RAB BOARD
T	SELECTED WALL TILES
TB	20MM TIMBER BATTENS
TF1	90MM SG8 H1.2 TREATED TIMBER FRAMING @ 600 CRS, DWANGS @1300 CRS MAX.
TF2	140MM SG8 H1.2 TREATED TIMBER FRAMING @ 400 CRS, DWANGS @1300 CRS MAX.
SF1	64MM 0.55 BMT STEEL FRAMING @ 600 CRS
SF2	92MM 0.55 BMT STEEL FRAMING @ 600 CRS
S1	90X12MM PINUS CLEARS SKIRTING. PAINT FINISH
S2	SELECTED VINYL COVED SKIRTING
S3	SELECTED TILE SKIRTING
S4	30X6 POWDERCOATED ALUMINIUM SKIRTING
SPC	DP955 0.55 COLORCOTE/COLORSTEEL STEEL PROFILE
VB	9MM THICK JAMES HARDIE VILLA BOARD

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OVERALL GROUND FLOOR PLAN

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CHECKED	RT
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REFER TO GIB FIRE MANUAL REGARDING PLUMBING SERVICES CONTAINED WITHIN A FIRE RATED WALL. REFER TO GFS 264 GIB FIRE RATED SYSTEMS

OFFICE 01 CARPET TILES
OFFICE 02 CARPET TILES
OFFICE 03 CARPET TILES
DATA RACK
CLEANERS VINYL
WC VINYL
ACC. WC/SH VINYL
PASSAGE VINYL
60/60/60 LOAD BEARING WALLS
TRADE COUNTER
FLOOR FINISH: VINYL
SUSPENDED CEILING ABOVE
RECEPTION COUNTER SHALL HAVE AT LEAST ONE SPACE FOR USE BY PEOPLE IN WHEELCHAIRS. SUCH SPACE SHALL BE AL LEAST 900MM WIDE. FOR HEIGHT REFER TO FIGURE 36 - NZS4121:2001 (675MM MIN - 755MM MAX)
SHOWROOM VINYL
Ø150 DP

OFFICE GROUND FLOOR
SCALE 1 : 50

OFFICE 04 CARPET TILES
OFFICE 05 CARPET TILES
OFFICE 06 CARPET TILES
PASSAGE CARPET TILES
FFL 21.80
WC 02 VINYL
WC 03 VINYL
WC 04 VINYL
STAIR VINYL
PASSAGE VINYL
CAFE VINYL
FFL 21.80
MEETING ROOM CARPET TILES
STORAGE VINYL
FIRE RATED WINDOW
DRAFT CURTAIN

OFFICE FIRST FLOOR
SCALE 1 : 50

FIRE RATING KEY

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60/60/60 FRR
120/120/120 FRR

FIRE RATE FIRST FLOOR SUPPORT STRUCTURE TO 60/60/60 FRR

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WALL FINISH SCHEDULE

BP	SELECTED WALL UNDERLAY
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PC	PRECAST CONCRETE PANEL
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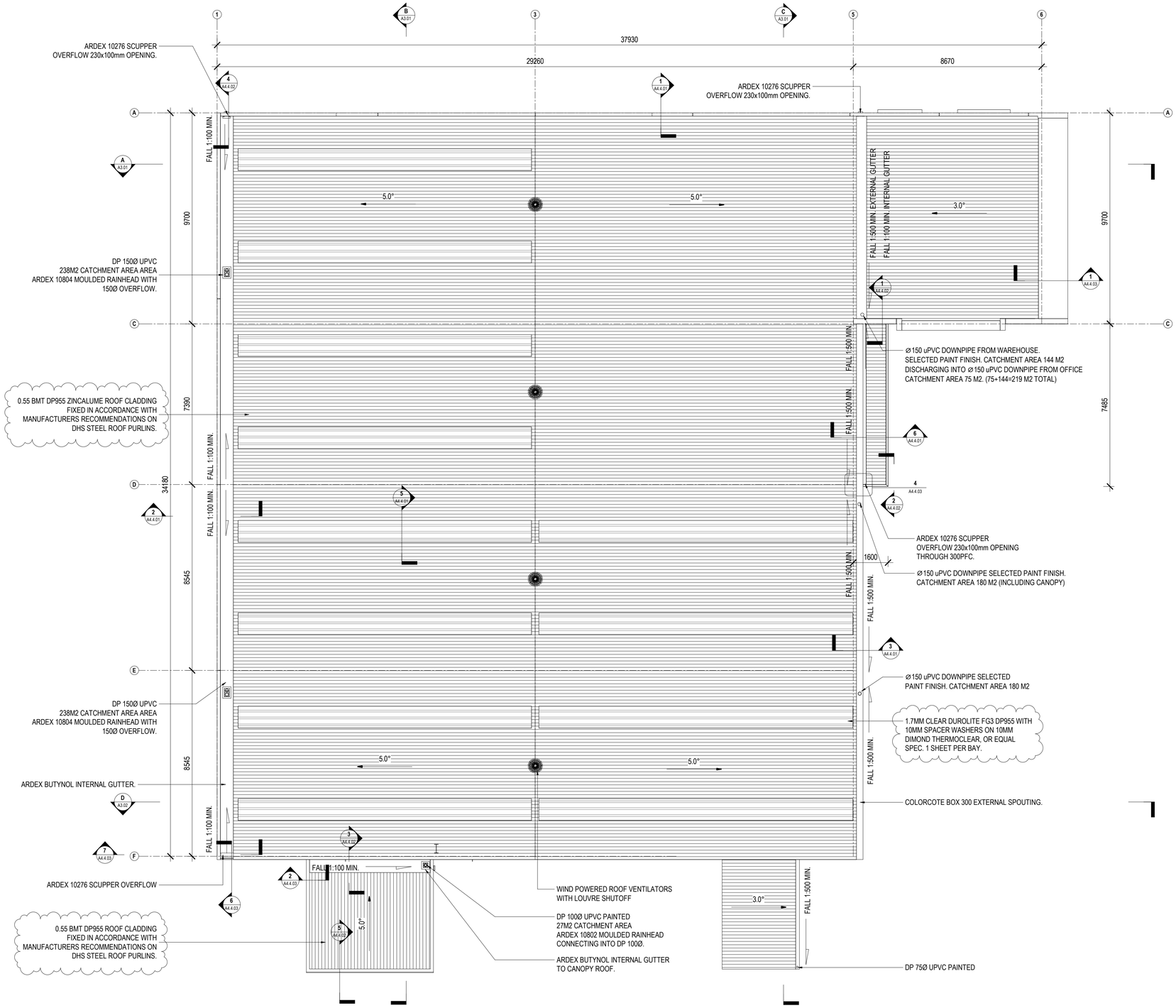
OFFICE FLOOR PLANS

SCALE @ A1	As indicated
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ROOF PLAN

SCALE 1 : 100

NORTH

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INDUSTRIAL DEVELOPMENT
LOT 6/61 BELFAST ROAD
BELFAST ROAD
CHRISTCHURCH

ROOF PLAN

SCALE @ A1	1 : 100
DATE	13.09.2022
JOB No.	2154
DRAWN	NLC
CHECKED	RT
STATUS	BUILDING CONSENT

DRAWING No. A1.03 **REVISION** A

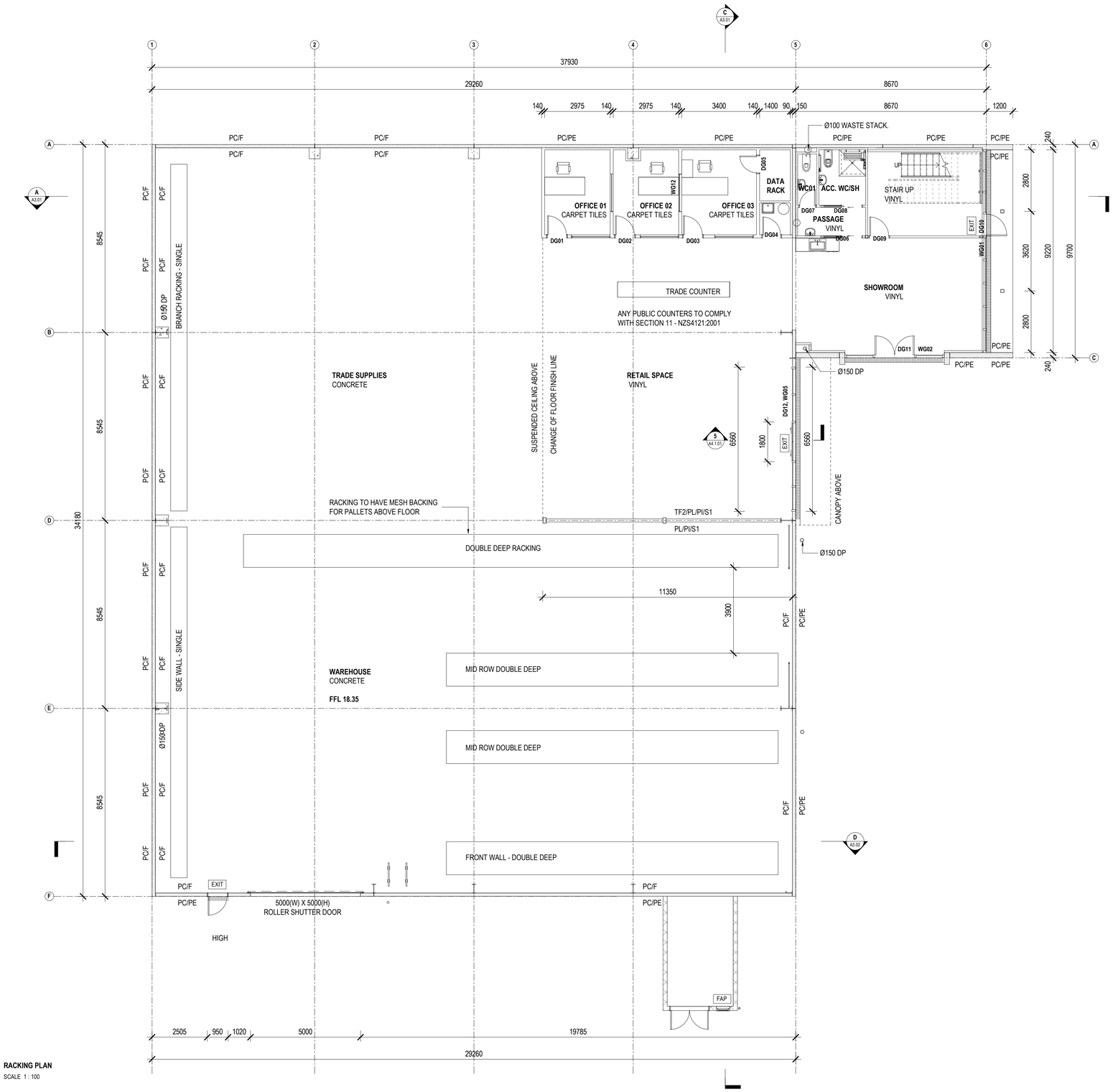
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FOR REFERENCE ONLY. REFER TO STORE PRO DRAWINGS FOR DETAILS.



RACKING PLAN
SCALE 1 : 100

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RACKING PLAN

SCALE @ A1	1 : 100
DATE	11.08.2022
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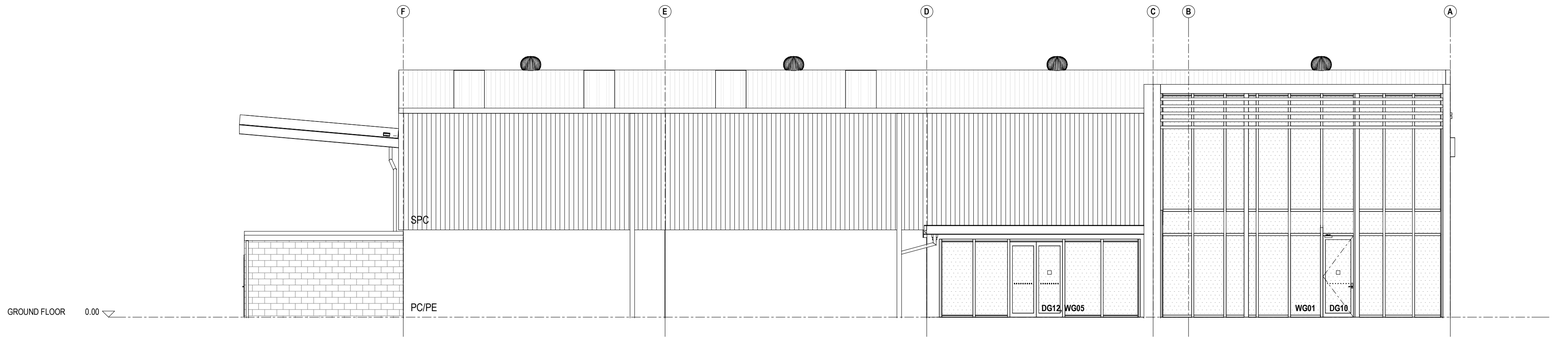
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BUILDING ENVELOPE RISK SCORE

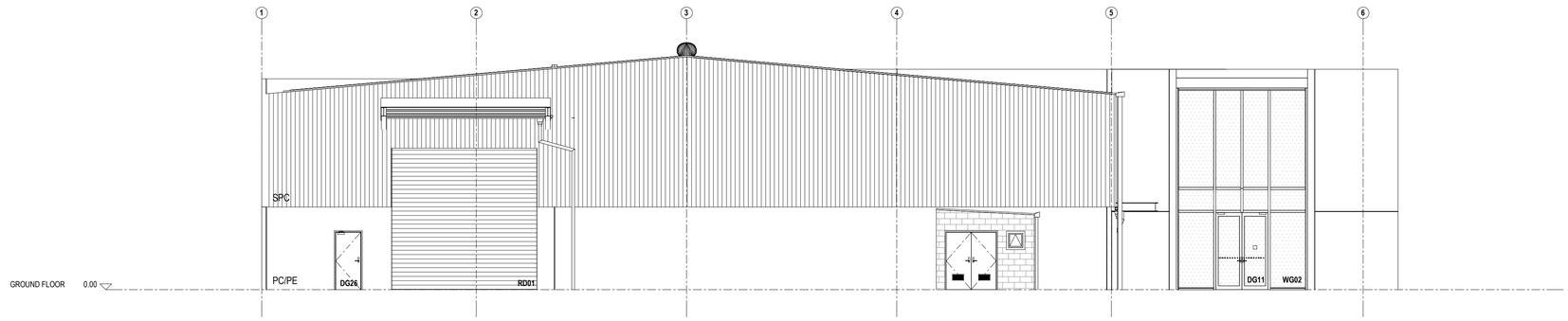
RISK MATRIX		SCORE
WIND ZONE	HIGH	1
STOREYS	MEDIUM	1
ROOF/WALL INTERSECTION	MEDIUM	1
EAVES WIDTH	HIGH	3
ENVELOPE COMPLEXITY	LOW	0
DECK DESIGN	LOW	0
TOTAL		**6**



NORTH ELEVATION
SCALE 1 : 100

BUILDING ENVELOPE RISK SCORE

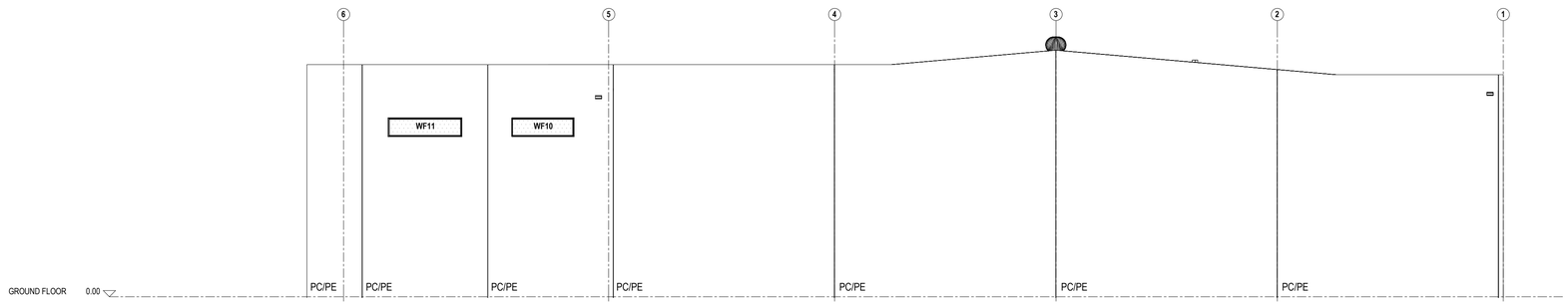
RISK MATRIX		SCORE
WIND ZONE	HIGH	1
STOREYS	MEDIUM	1
ROOF/WALL INTERSECTION	HIGH	3
EAVES WIDTH	HIGH	3
ENVELOPE COMPLEXITY	LOW	0
DECK DESIGN	LOW	0
TOTAL		**8**



EAST ELEVATION
SCALE 1 : 100

BUILDING ENVELOPE RISK SCORE

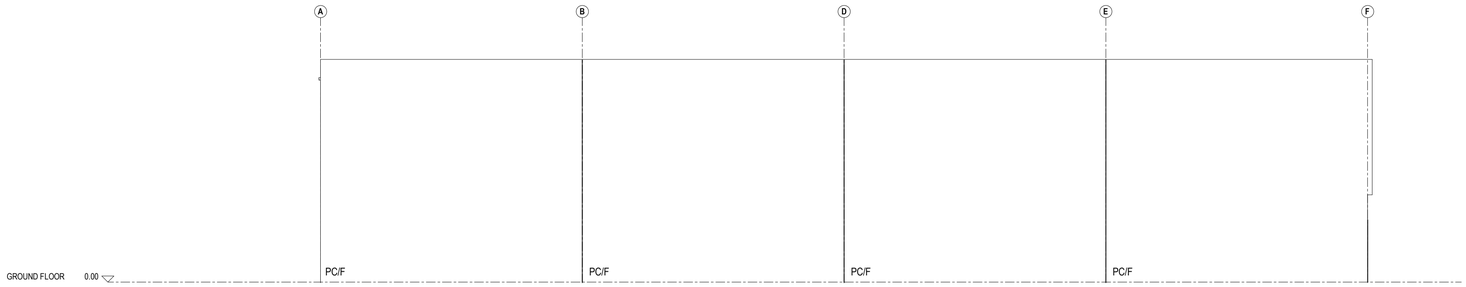
RISK MATRIX		SCORE
WIND ZONE	HIGH	1
STOREYS	LOW	0
ROOF/WALL INTERSECTION	HIGH	3
EAVES WIDTH	VERY HIGH	5
ENVELOPE COMPLEXITY	LOW	0
DECK DESIGN	LOW	0
TOTAL		**9**



WEST ELEVATION
SCALE 1 : 100

BUILDING ENVELOPE RISK SCORE

RISK MATRIX		SCORE
WIND ZONE	HIGH	1
STOREYS	LOW	0
ROOF/WALL INTERSECTION	HIGH	3
EAVES WIDTH	VERY HIGH	5
ENVELOPE COMPLEXITY	LOW	0
DECK DESIGN	LOW	0
TOTAL		**9**



SOUTH ELEVATION
SCALE 1 : 100

WALL FINISH SCHEDULE

BP	SELECTED WALL UNDERLAY
F	NATURAL CONCRETE - FAIRFACE
GB	13MM STANDARD GIB BOARD
GBA	13MM AQUALINE GIB BOARD
GBN	13MM NOISELINE GIB BOARD
GBF	13MM FYRELINE GIB BOARD GBTL 60
GBF1	2x13MM FYRELINE GIB BOARD GBUW 60
IP1	INTUMESCENT PAINT - 120 MIN
IP2	INTUMESCENT PAINT - 60 MIN
M	190MM THICK MASONRY WALL
PB1	PINK BATTS ULTRA R2.6 THERMAL INSULATION
PB2	PINK BATTS ULTRA R3.2 THERMAL INSULATION
PBS	PINK BATTS 75MM THICK SILENCER
PC	PRECAST CONCRETE PANEL
PE	EXTERIOR PAINT FINISH
PI	INTERIOR PAINT FINISH
PL	PLYWOOD
RB	6MM THICK JAMES HARDIE RAB BOARD
T	SELECTED WALL TILES
TB	20MM TIMBER BATTENS
TF1	90MM SG8 H1.2 TREATED TIMBER FRAMING @ 600 CRS, DWANGS @1300 CRS MAX.
TF2	140MM SG8 H1.2 TREATED TIMBER FRAMING @ 400 CRS, DWANGS @1300 CRS MAX.
SF1	64MM 0.55 BMT STEEL FRAMING @ 600 CRS
SF2	92MM 0.55 BMT STEEL FRAMING @ 600 CRS
S1	90X12MM PINUS CLEARS SKIRTING. PAINT FINISH
S2	SELECTED VINYL COVED SKIRTING
S3	SELECTED TILE SKIRTING
S4	30X6 POWDERCOATED ALUMINIUM SKIRTING
SPC	DP955 0.55 COLORCOTE/COLORSTEEL STEEL PROFILE
VB	9MM THICK JAMES HARDIE VILLA BOARD

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CHRISTCHURCH

ELEVATIONS

SCALE @ A1	1 : 100
DATE	11.08.2022
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A2.01	

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NORTH PERSPECTIVE

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PERSPECTIVE

SCALE @ A1	1 : 10
DATE	11.08.2022
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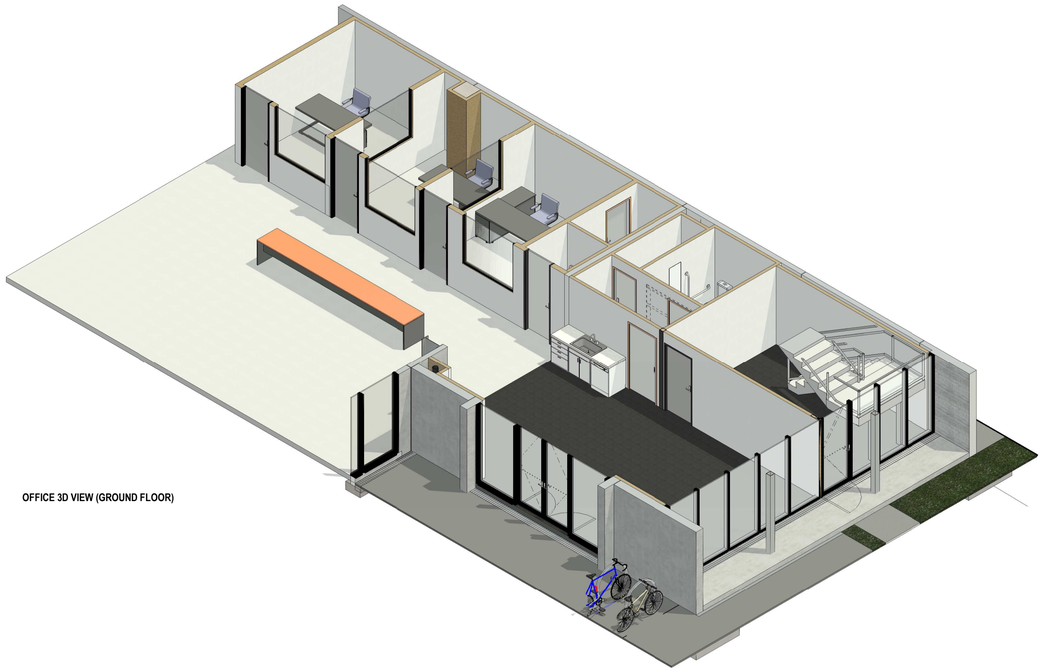
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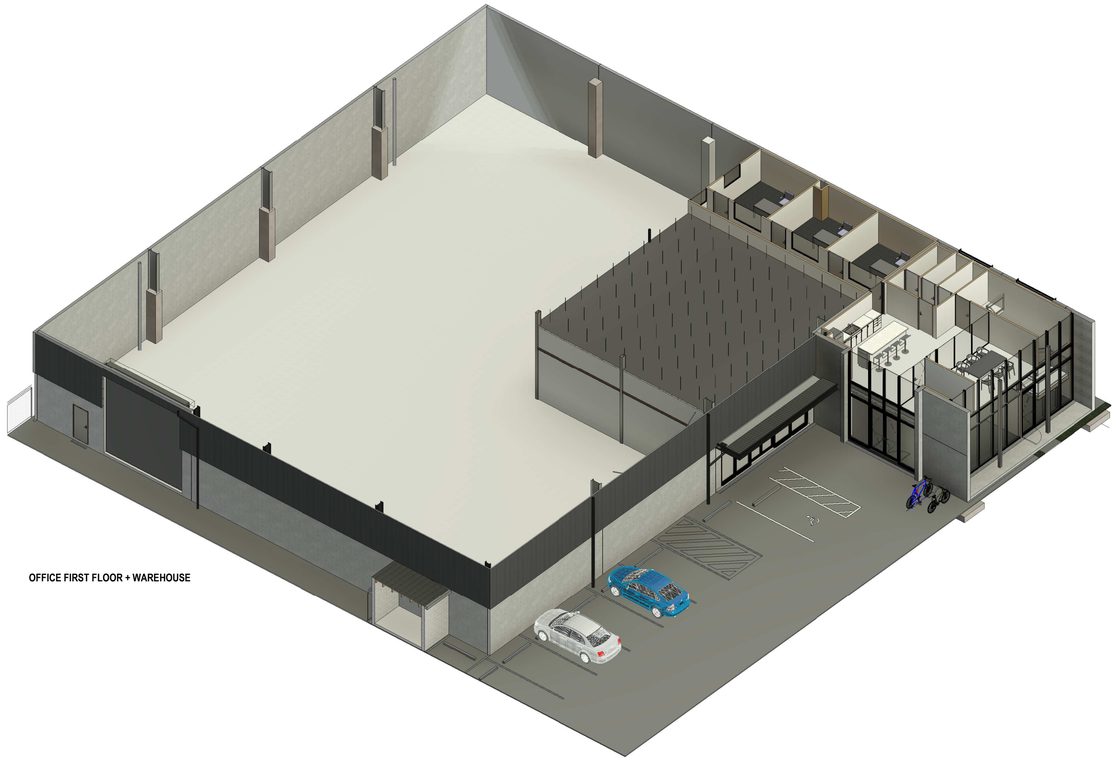
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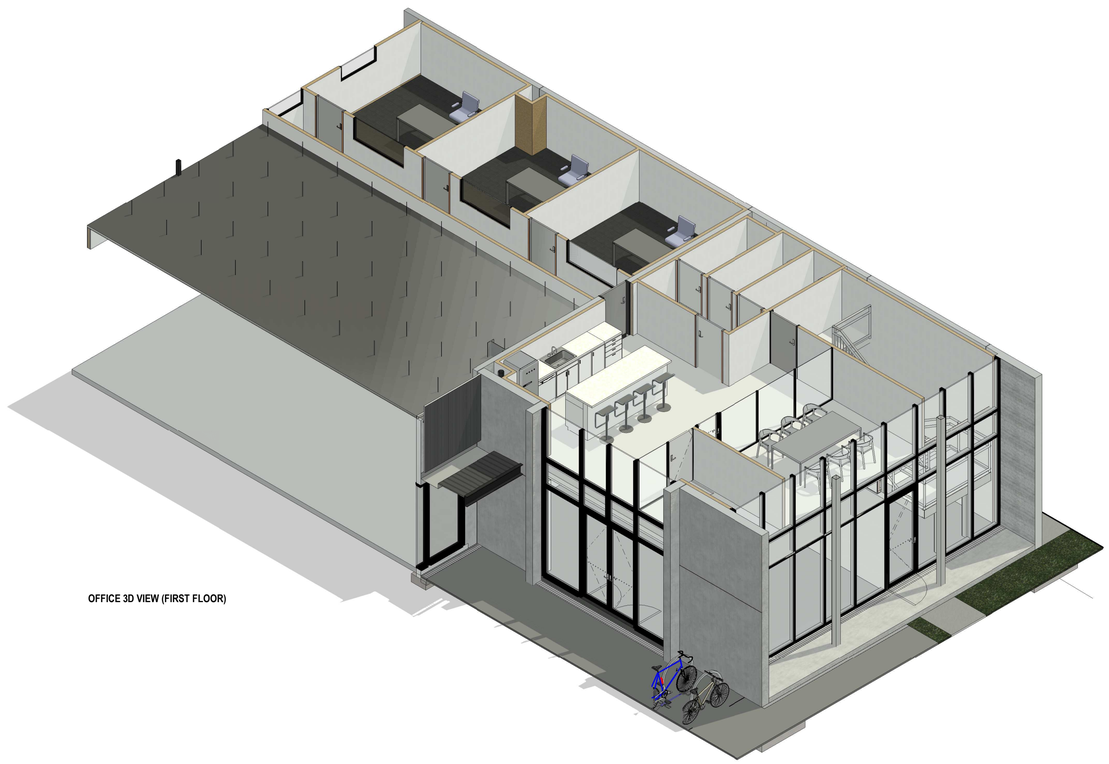
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OFFICE 3D VIEW (GROUND FLOOR)



OFFICE FIRST FLOOR + WAREHOUSE



OFFICE 3D VIEW (FIRST FLOOR)

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OFFICE 3D VIEW

SCALE @ A1	
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ISOMETRIC VIEW

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LOT 6 ISOMETRIC VIEW

SCALE @ A1	
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STATUS	BUILDING CONSENT

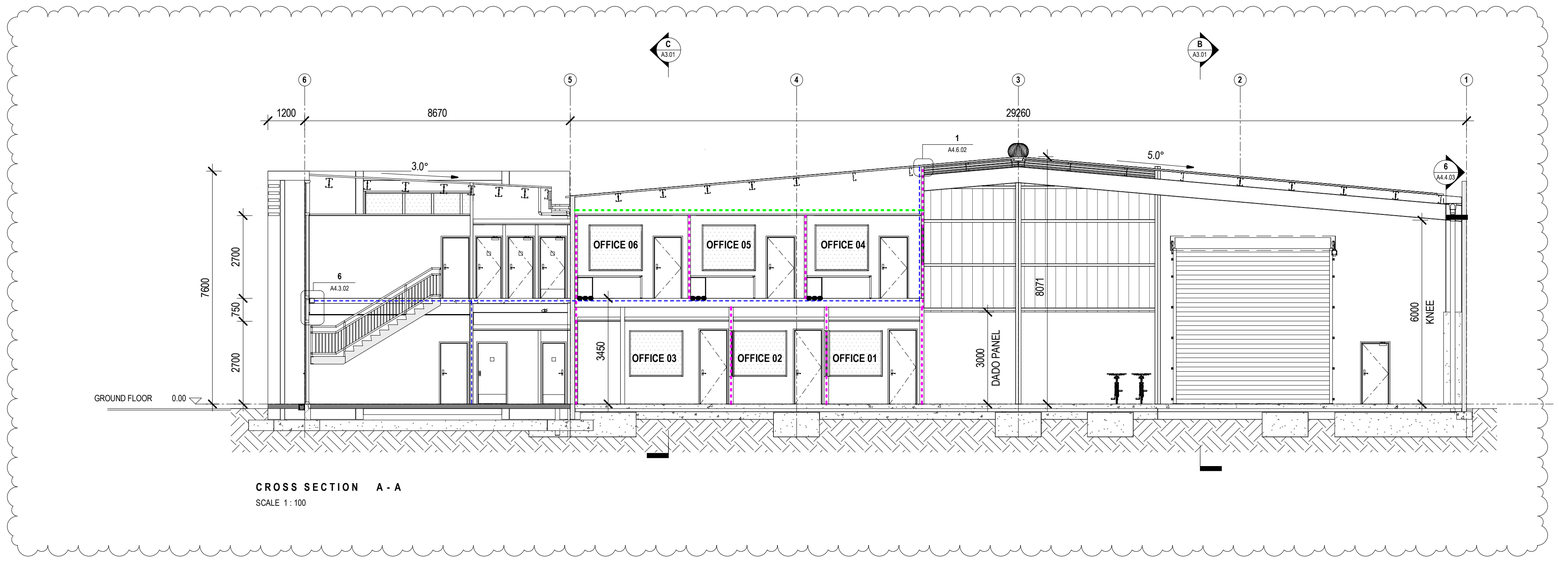
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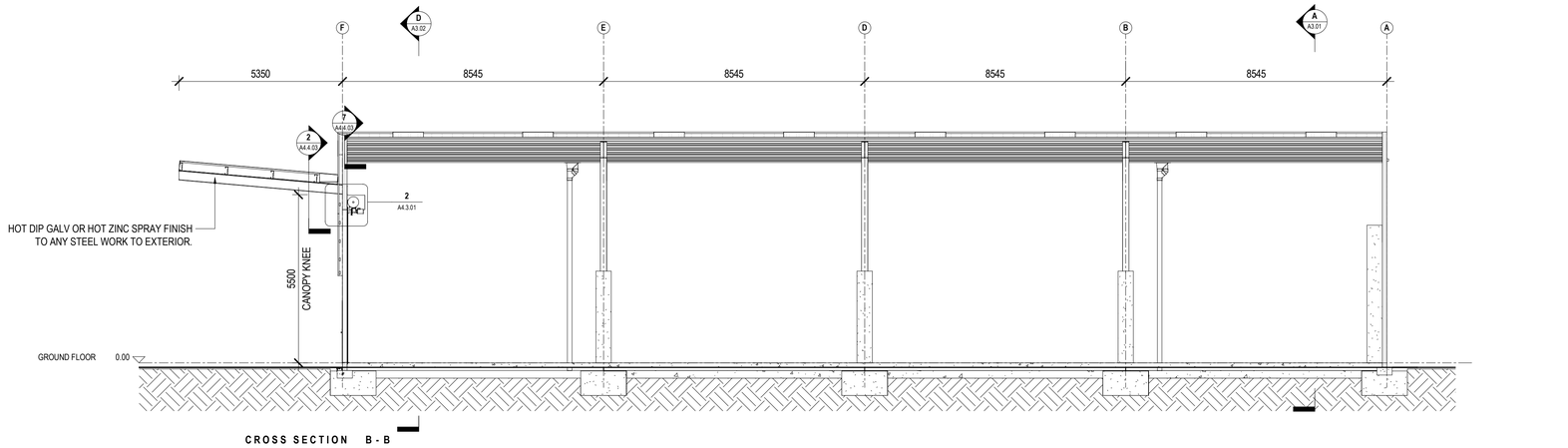
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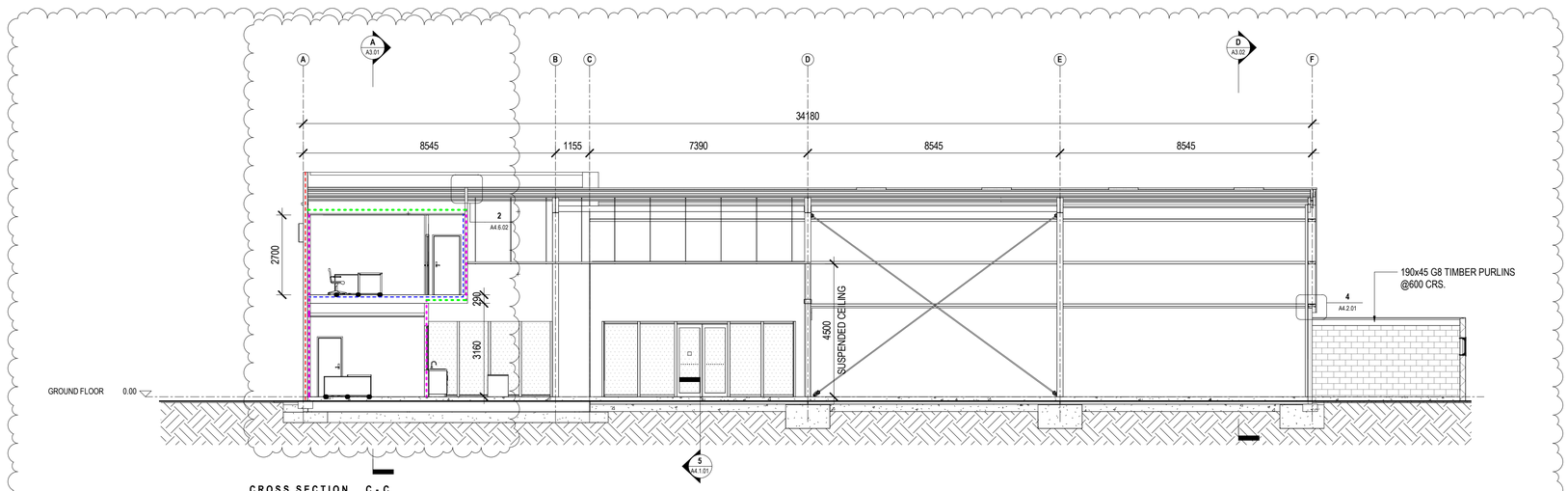
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CROSS SECTION A - A
SCALE 1 : 100



CROSS SECTION B - B
SCALE 1 : 100



CROSS SECTION C - C
SCALE 1 : 100

FIRE RATING KEY

REFER TO PFC FIRE REPORT FOR DETAILS

60/60/60 FRR
120/120/120 FRR

FIRE RATE FIRST FLOOR SUPPORT STRUCTURE TO 60/60/60 FRR

EXIT ILLUMINATED EXIT SIGNS TO NZBC F8

FAP FIRE ALARM PANEL

GENERAL INSULATION NOTES:

ROOF	R3.2	PINK BATTS BIB
WALLS	R2.6	PINK BATTS WALL
WALLS	R1.9	75MM PINK BATTS SILENCER WALL
WALLS	R3.2	PINK BATTS WALL
WINDOW	R0.26	DOUBLE GLAZED

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CROSS SECTIONS

SCALE @ A1	As indicated
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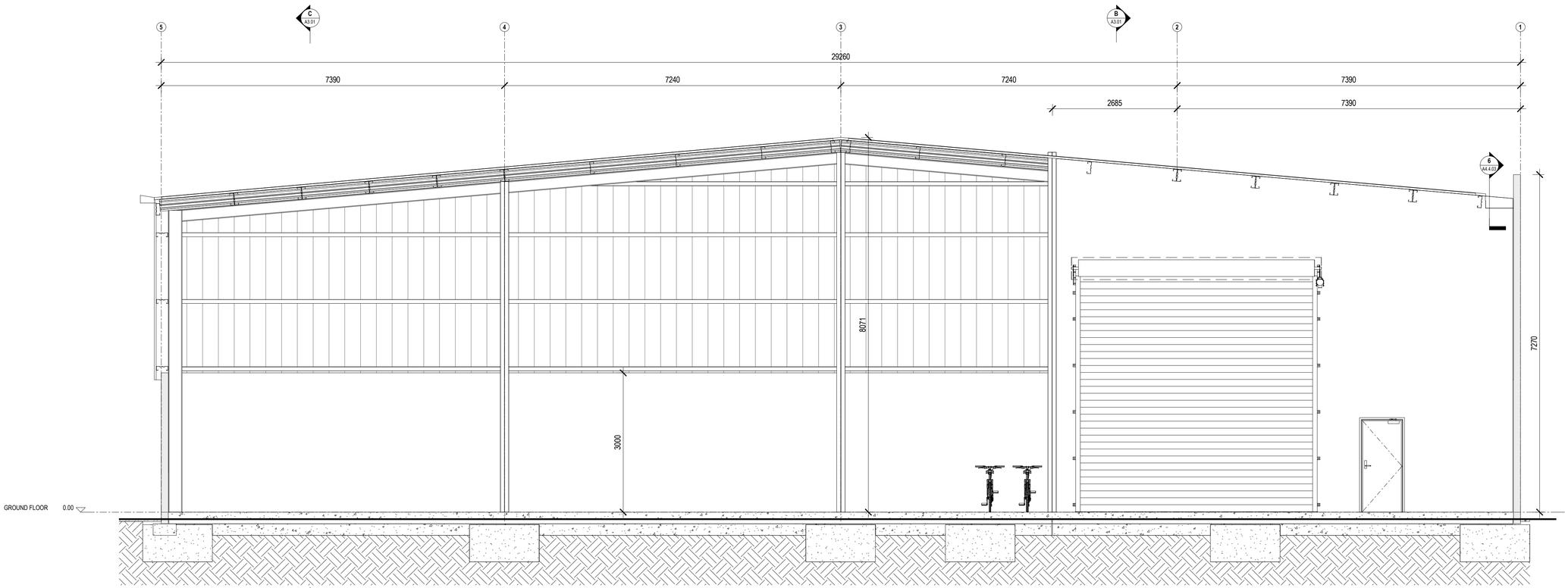
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CROSS SECTION D - D
SCALE 1 : 50

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CROSS SECTIONS

SCALE @ A1	1 : 50
DATE	11.08.2022
JOB No.	2154
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STATUS	BUILDING CONSENT

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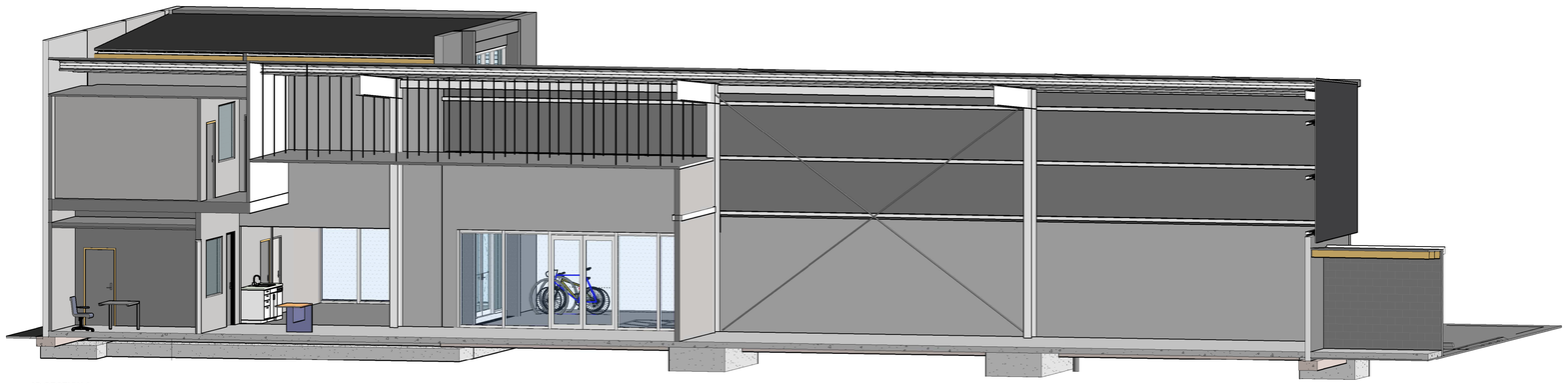
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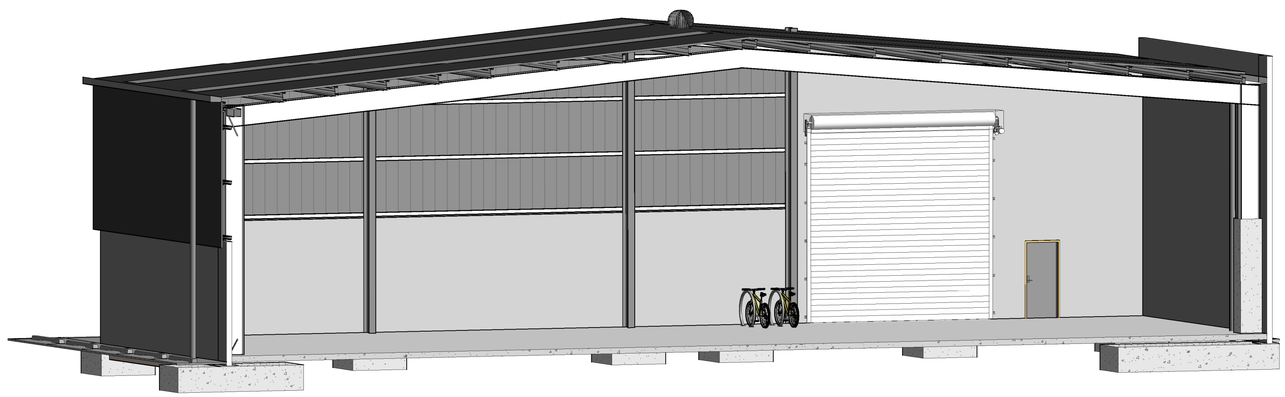
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3D SECTION 1



3D SECTION 2



3D SECTION 3

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CROSS SECTIONS 3D

SCALE @ A1	
DATE	11.08.2022
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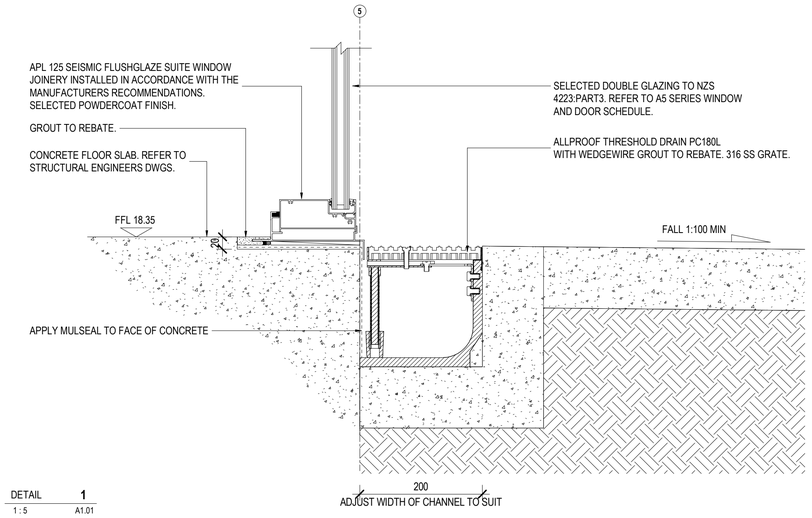
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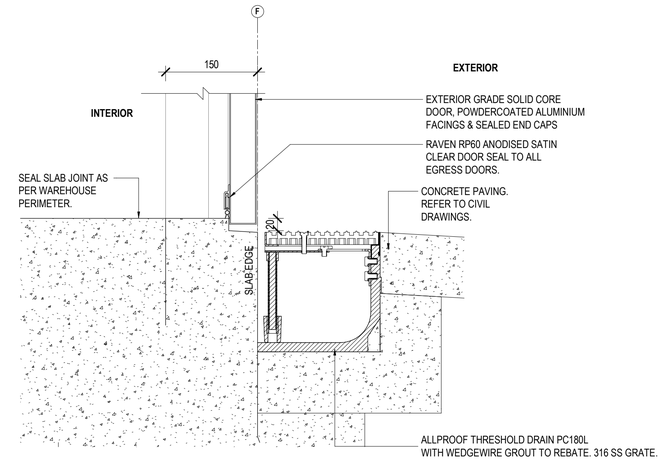
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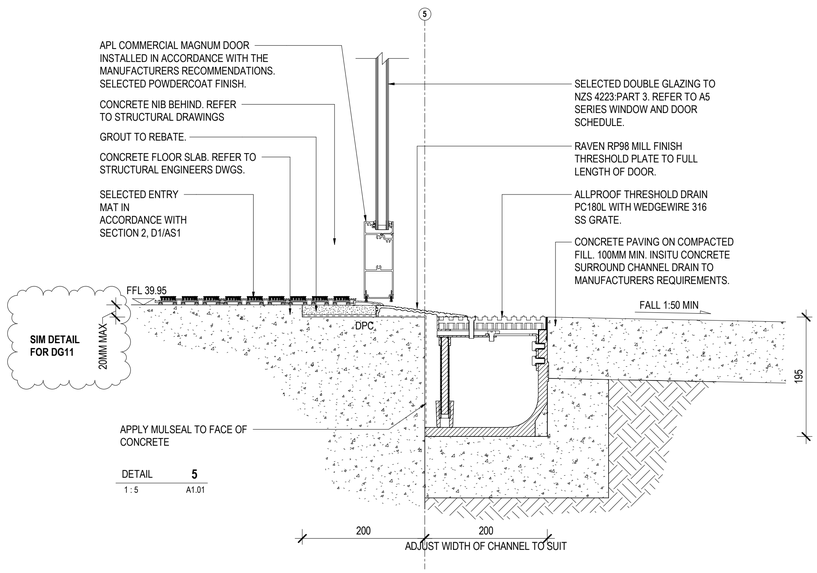


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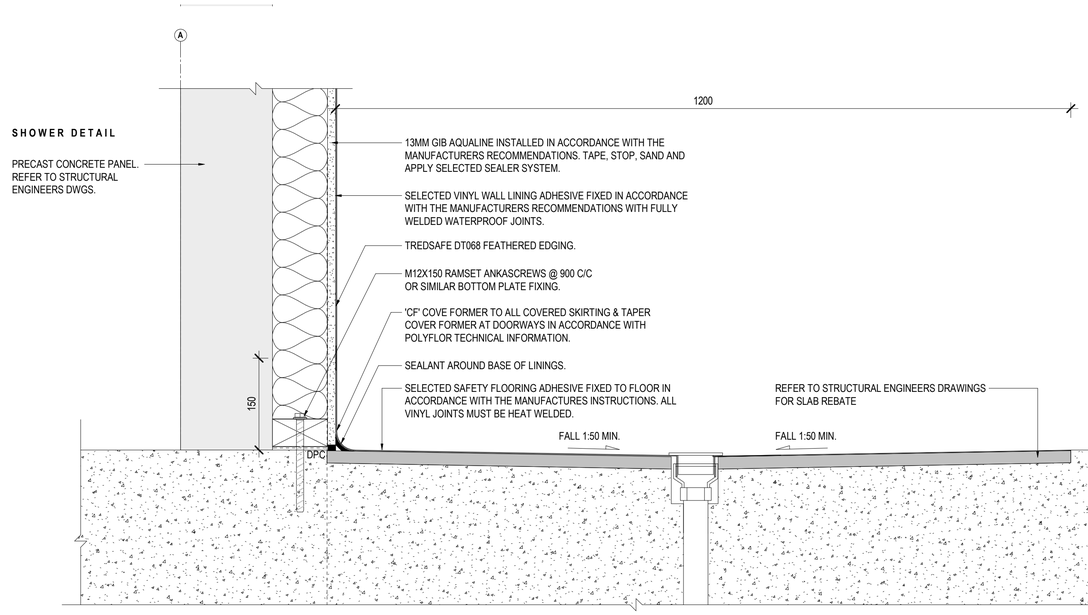


DETAIL **3**
1 : 5 A1.01

DETAIL **2**
1 : 5 A1.01



DETAIL **5**
1 : 5 A1.01



DETAIL **4**
1 : 5 A1.02

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FOUNDATION DETAILS

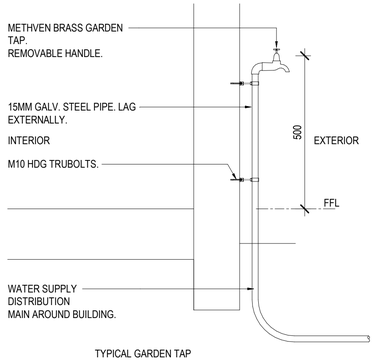
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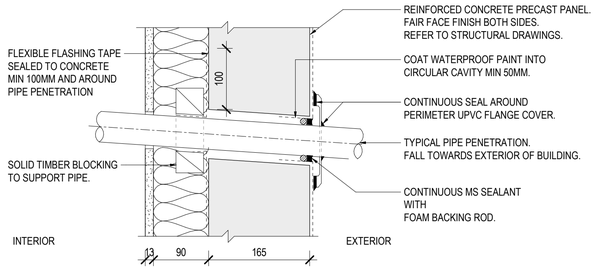
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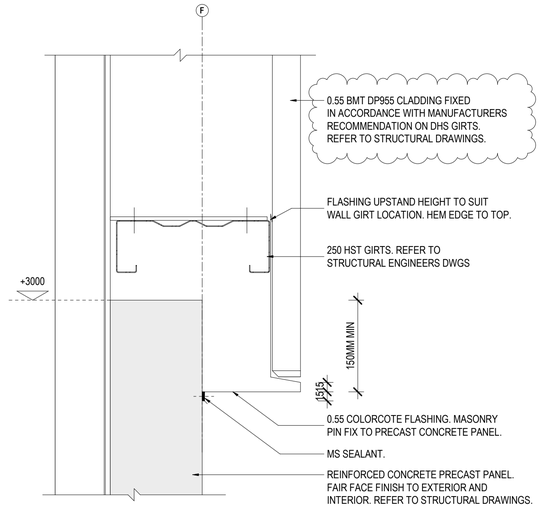
TYPICAL GARDEN TAP

DETAIL **1**
1 : 10

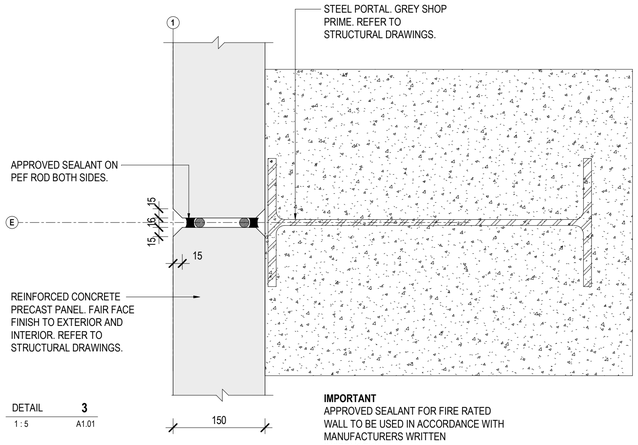


TYPICAL WALL PENETRATION DETAIL

DETAIL **2**
1 : 5



DETAIL **4**
1 : 5 A3.01



DETAIL **3**
1 : 5 A1.01

IMPORTANT
APPROVED SEALANT FOR FIRE RATED WALL TO BE USED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTION.

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EXTERNAL WALL DETAILS

SCALE @ A1	As indicated
DATE	13.09.2022
JOB No.	2154
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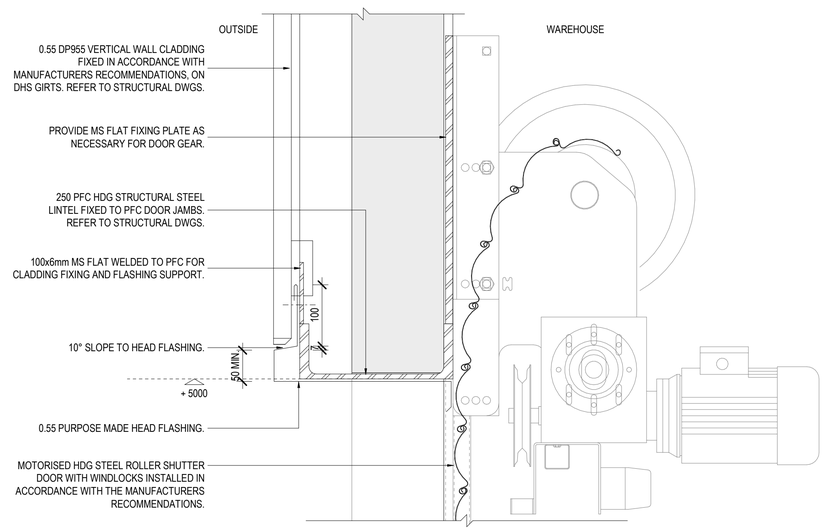
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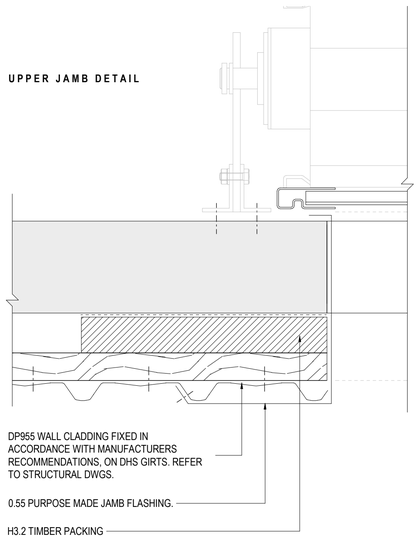
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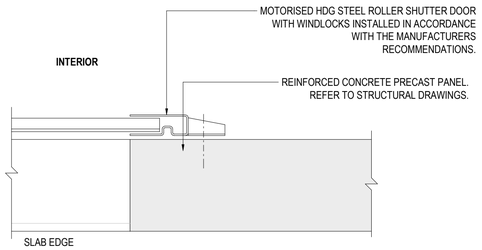
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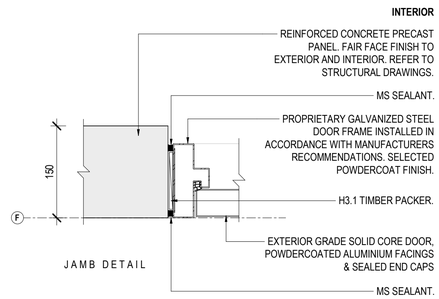
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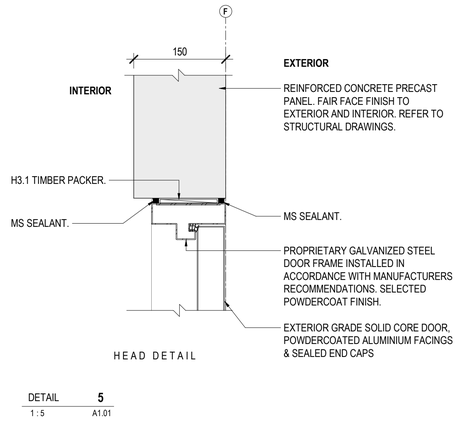
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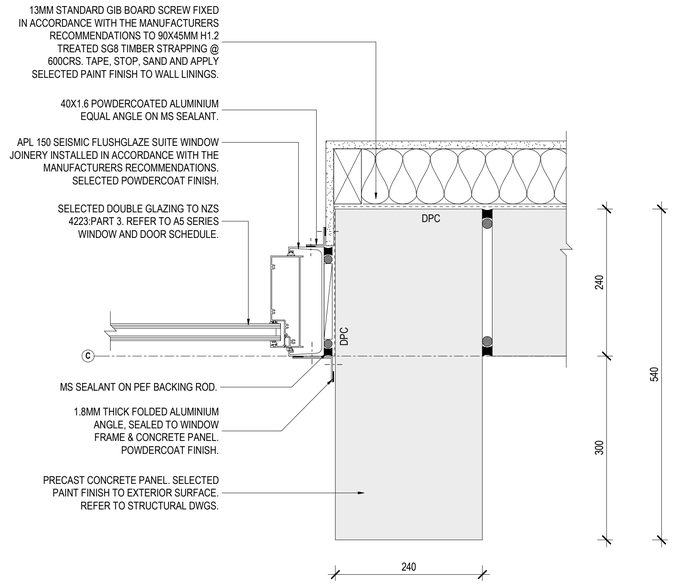
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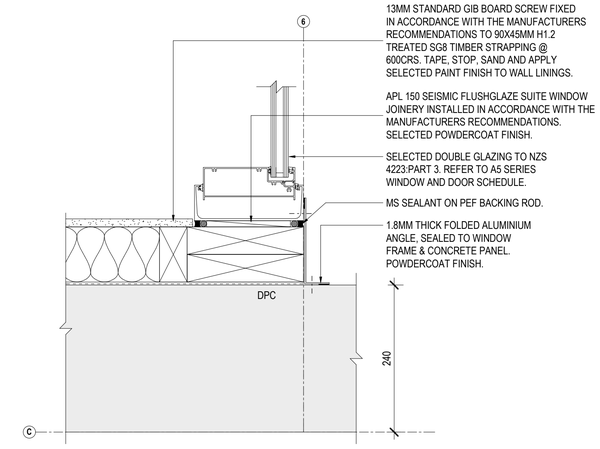
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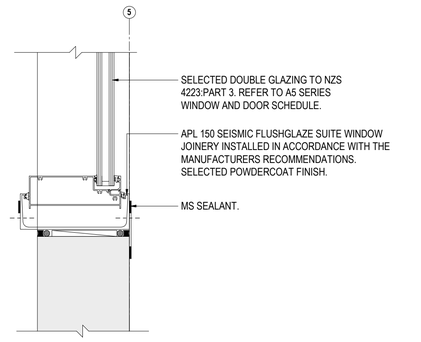
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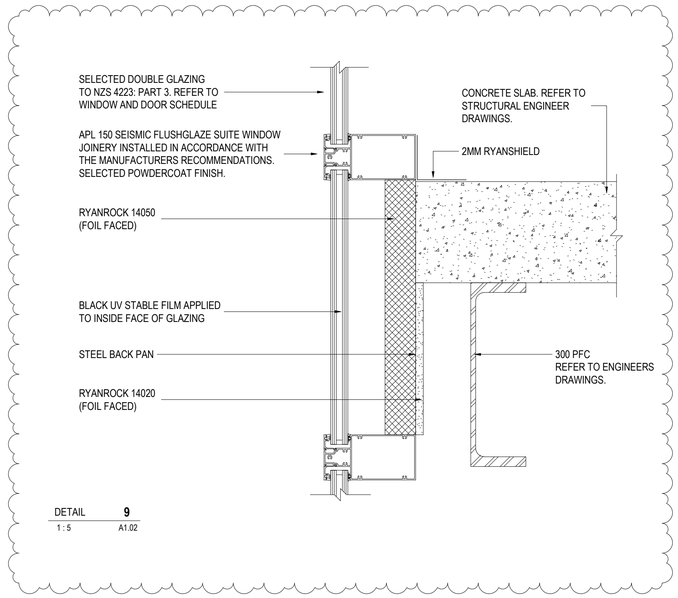
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DETAIL **6**
1 : 5 A1.02



DETAIL **8**
1 : 5 A1.01



DETAIL **9**
1 : 5 A1.02

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CHRISTCHURCH

EXTERNAL WINDOW & DOOR DETAILS

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DATE	04.10.2022
JOB No.	2154
DRAWN	NLC
CHECKED	RT
STATUS	BUILDING CONSENT

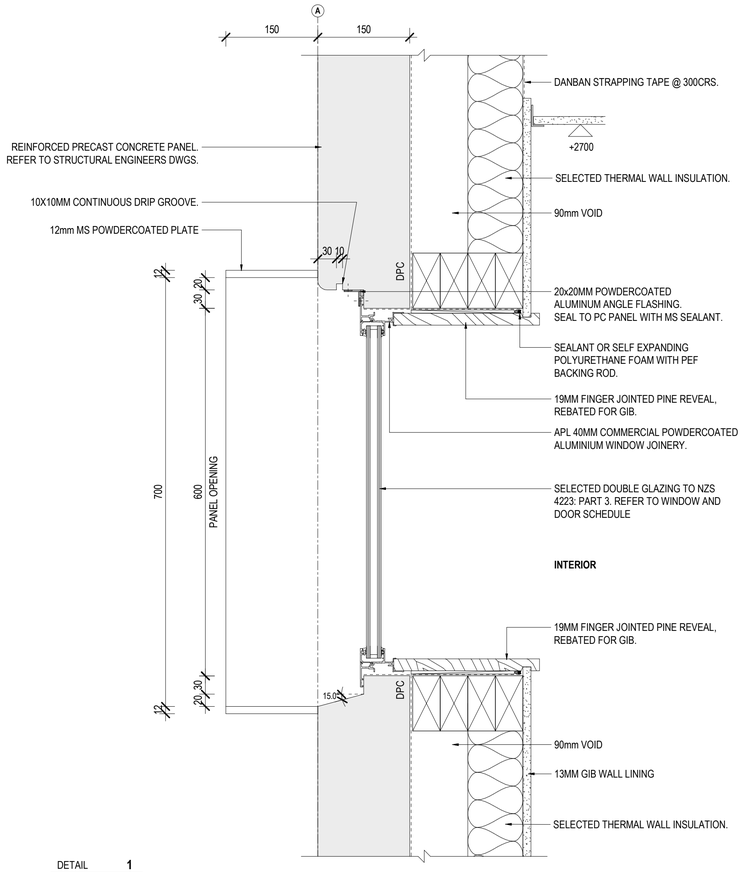
DRAWING No. A4.3.01 **REVISION** A

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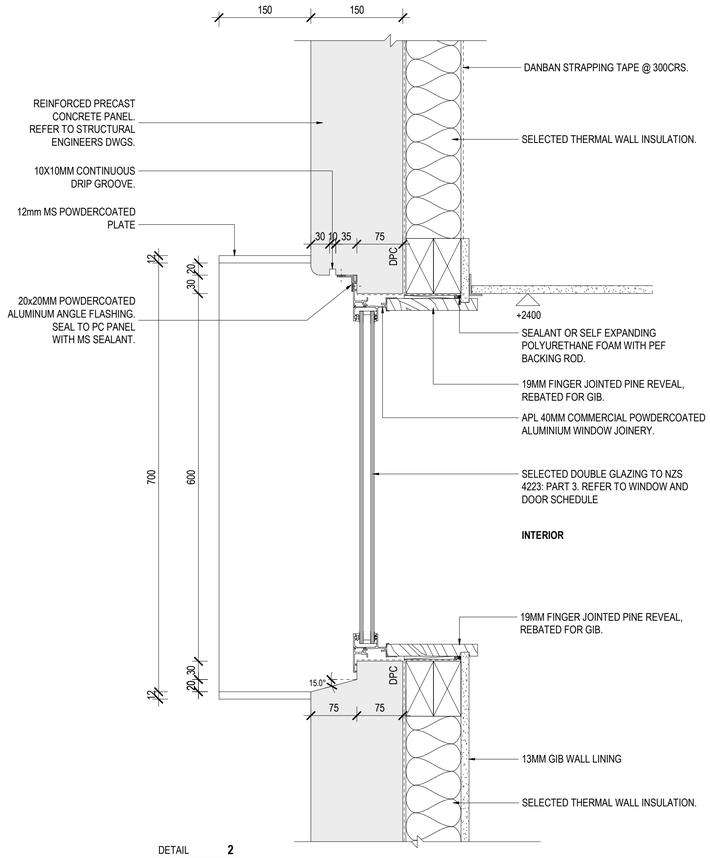
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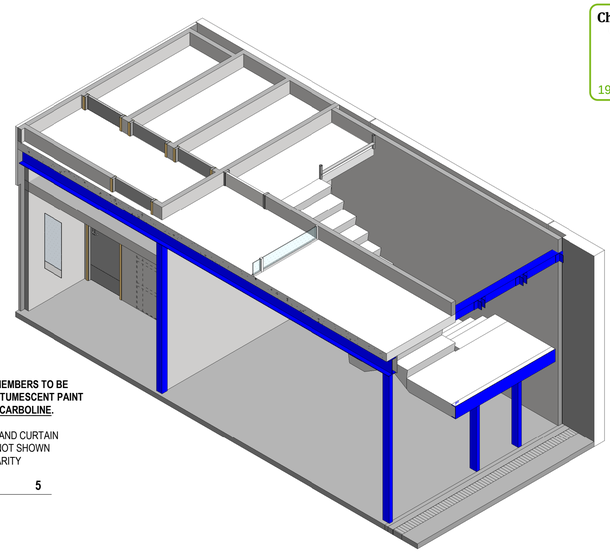
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DETAIL **1**
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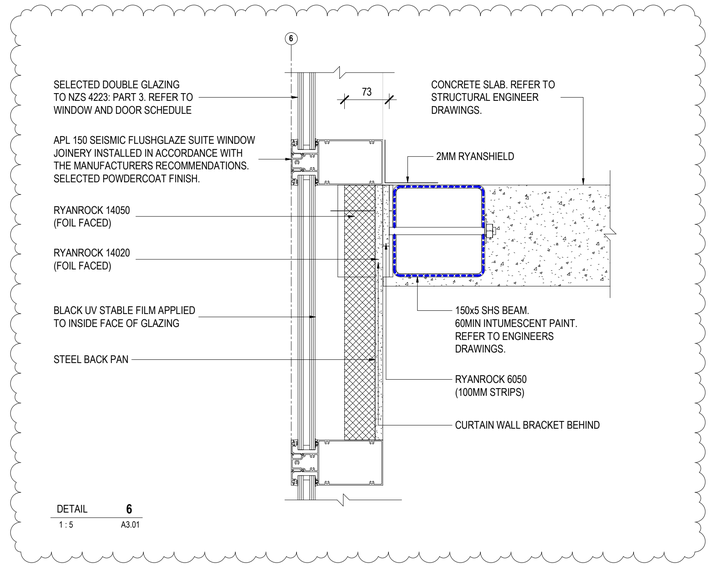
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STEEL MEMBERS TO BE 60MIN INTUMESCENT PAINT ALTEX / CARBOLINE.

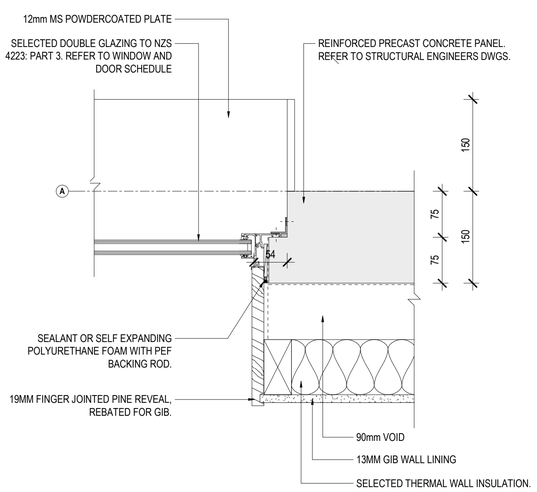
TIMBER AND CURTAIN WALLS NOT SHOWN FOR CLARITY

DETAIL **5**



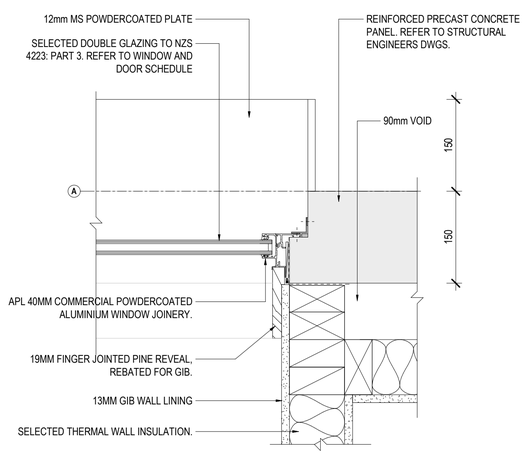
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JAMB DETAIL

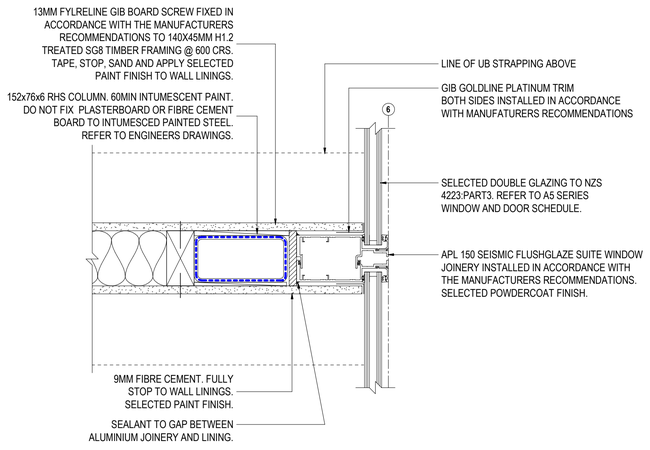


DETAIL **3**
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JAMB DETAIL



DETAIL **4**
1 : 5 A1.02



DETAIL **7**
1 : 5 A1.02

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CHRISTCHURCH

EXTERNAL WINDOW & DOOR DETAILS

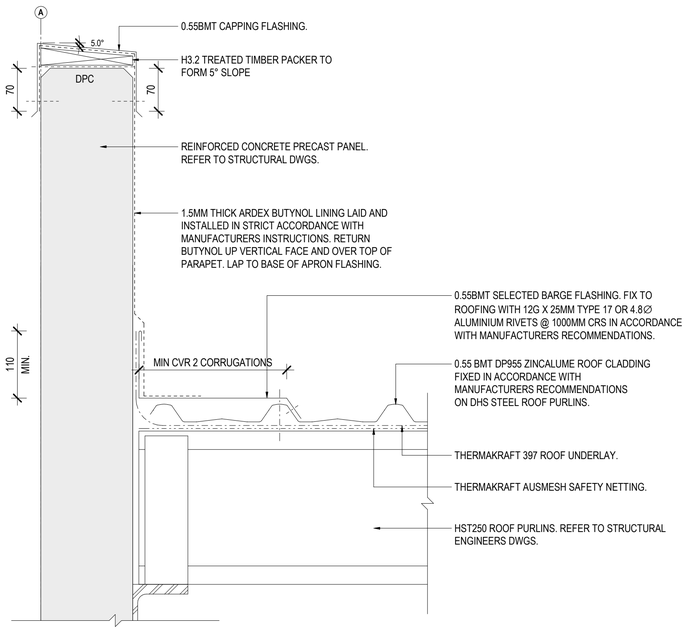
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CHECKED	RT
STATUS	BUILDING CONSENT

DRAWING No. A4.3.02 **REVISION** A

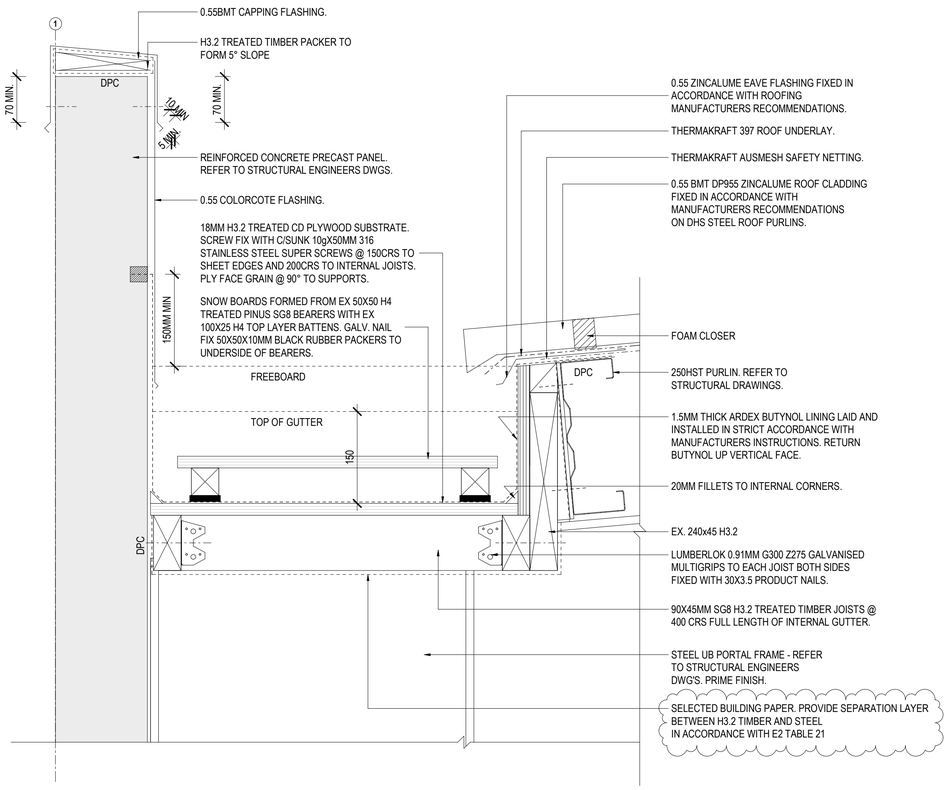
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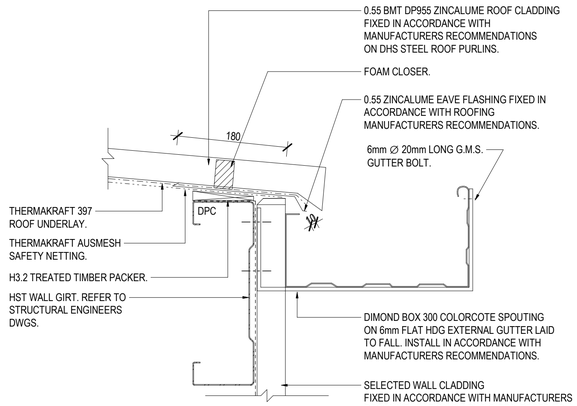
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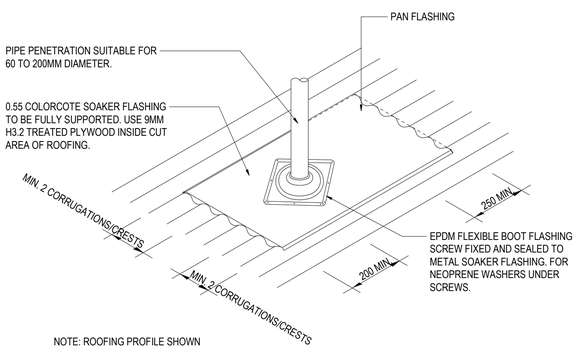
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DETAIL **2**
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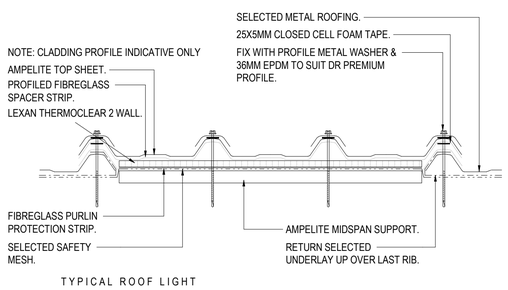
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NOTE: ROOFING PROFILE SHOWN INDICATIVE ONLY.
TYPICAL CIRCULAR PIPE PENETRATION 60 TO 200 DIA

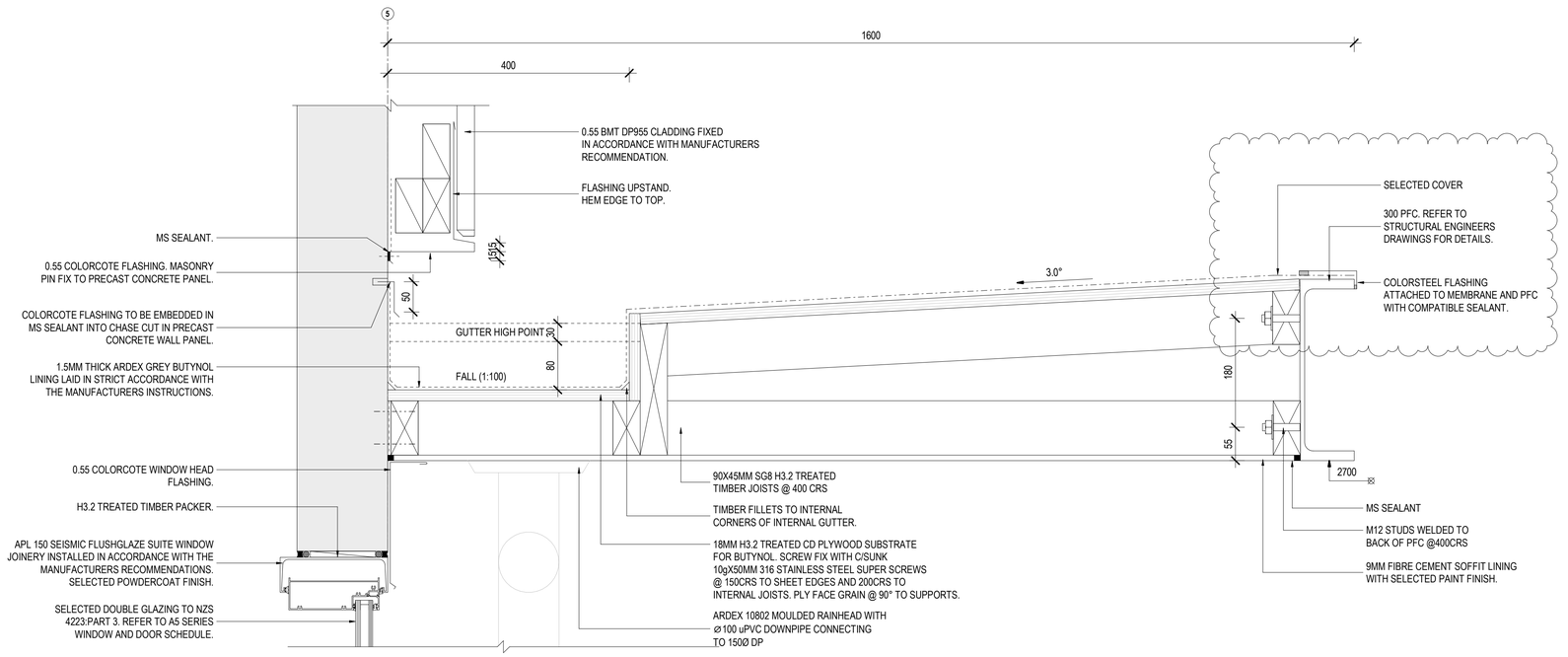
TYPICAL CIRCULAR PENETRATION

DETAIL **4**
1 : 5



TYPICAL ROOF LIGHT

DETAIL **5**
1 : 5 A1.03



DETAIL **6**
1 : 5 A1.03

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DETAIL UPDATED 04.10.2022
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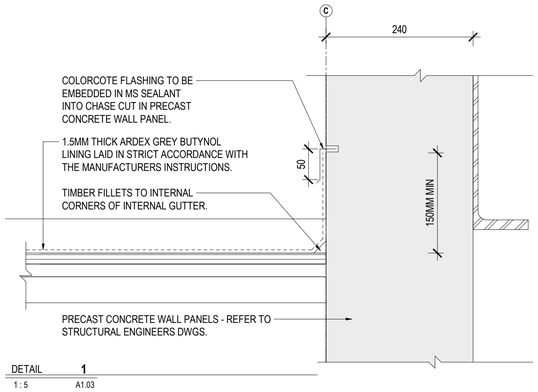
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DRAWING No.	REVISION
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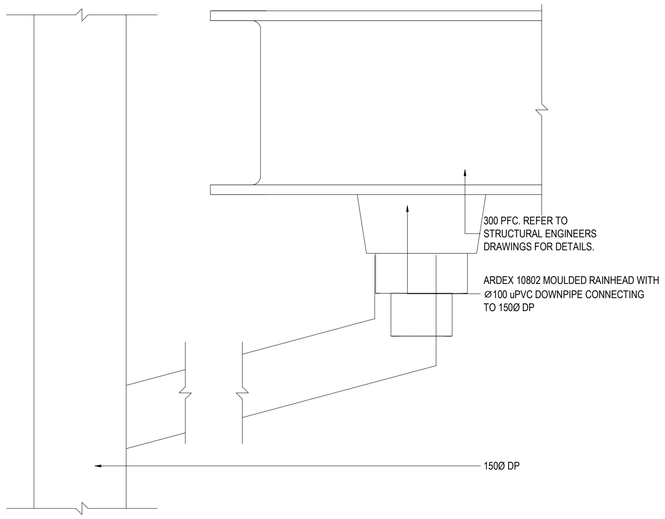
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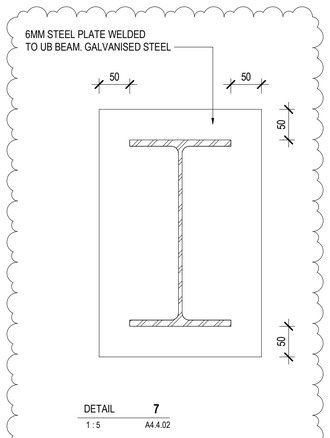
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Nilsson, Michael



DETAIL **1**
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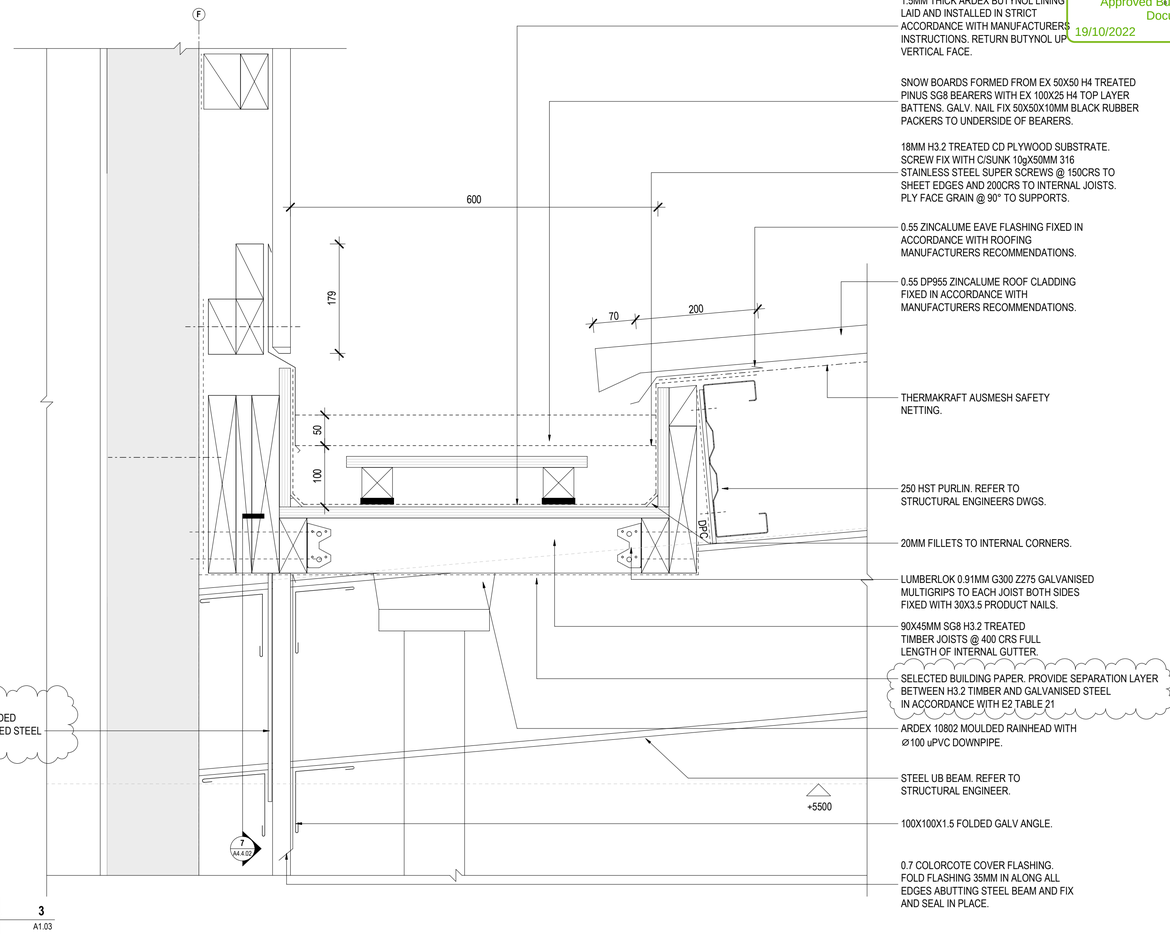


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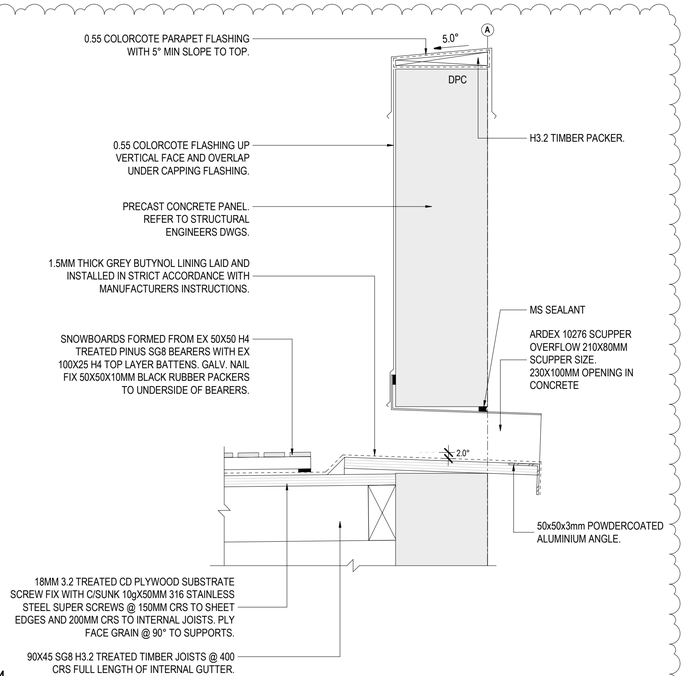


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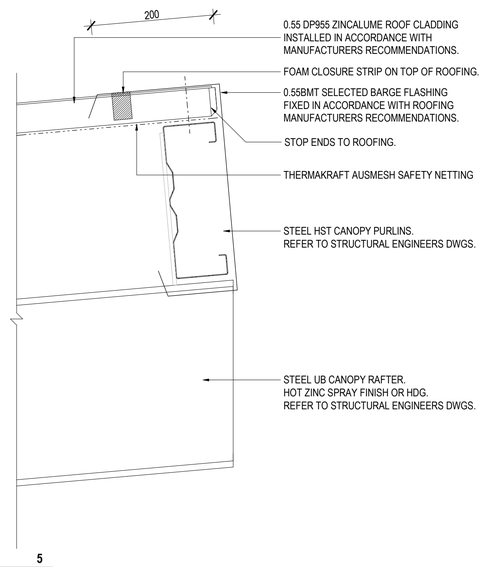




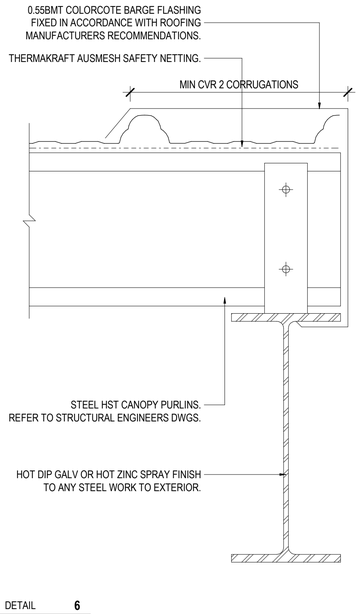
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DETAIL **4**
1 : 5 A1.03



DETAIL **5**
1 : 5 A1.03



DETAIL **6**
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CHRISTCHURCH

ROOF DETAILS

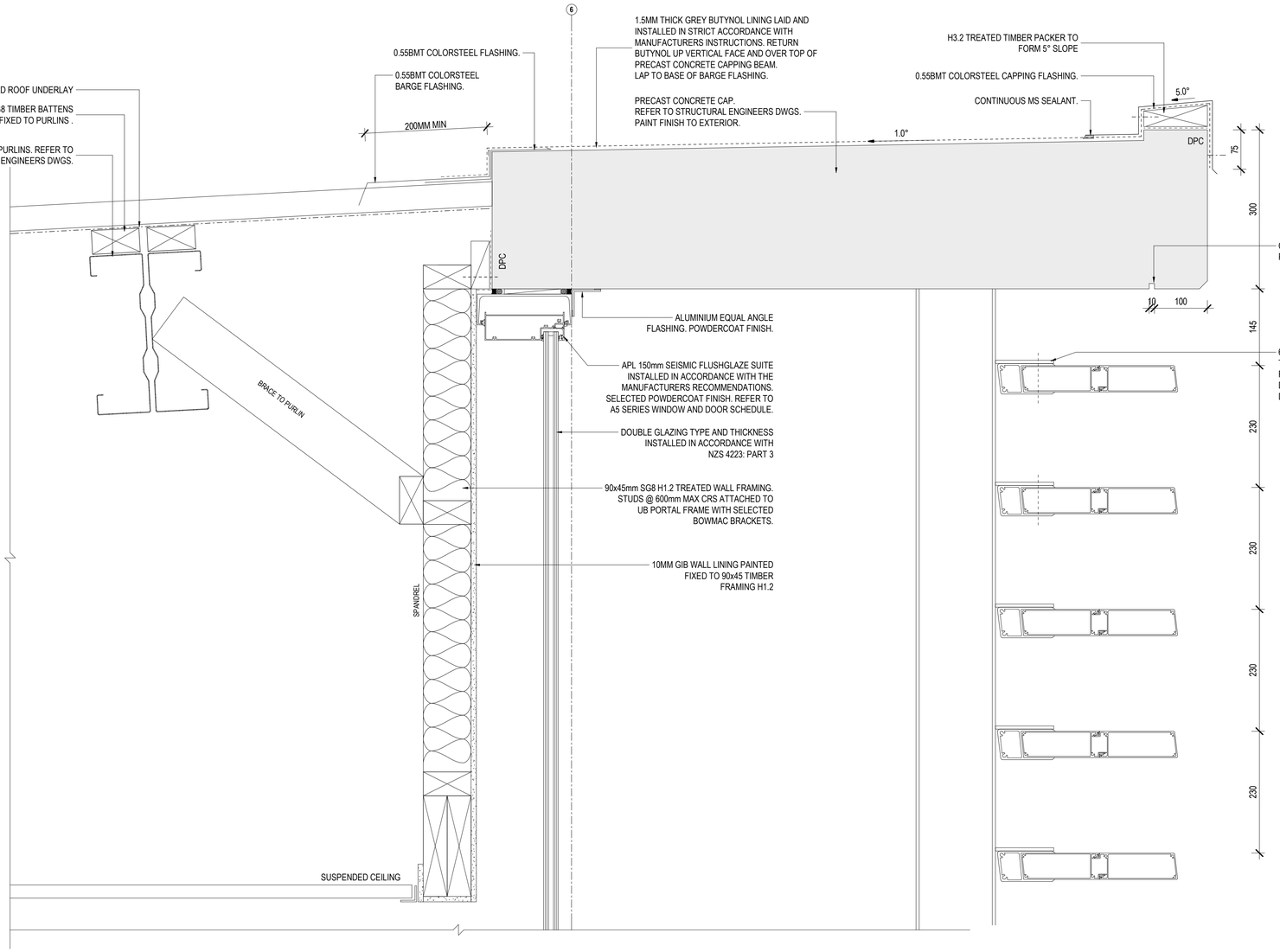
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DRAWING No.	**REVISION**
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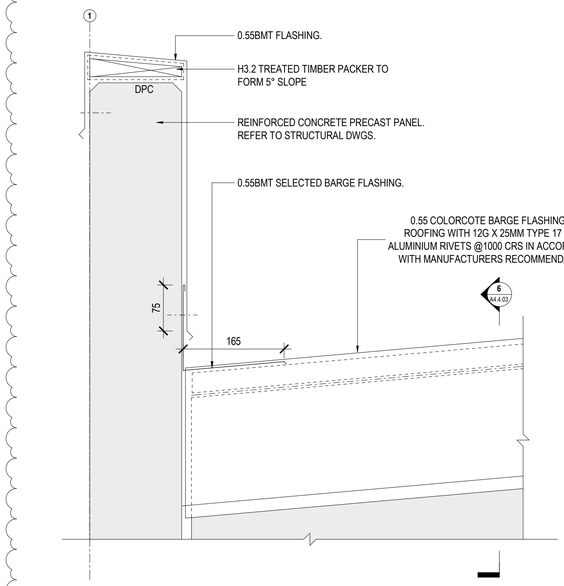
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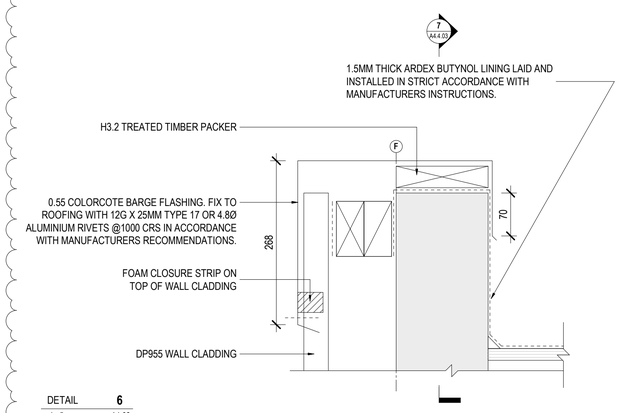
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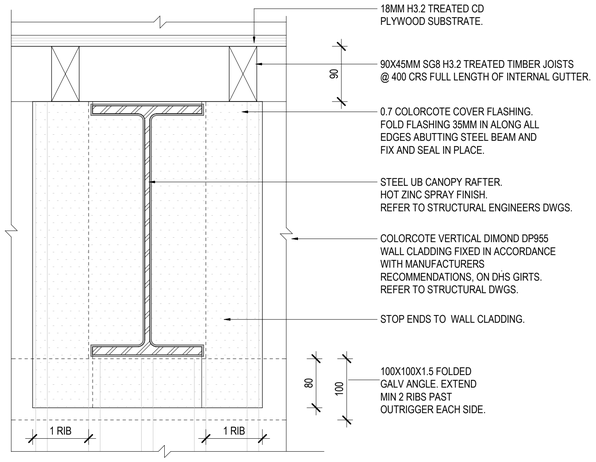
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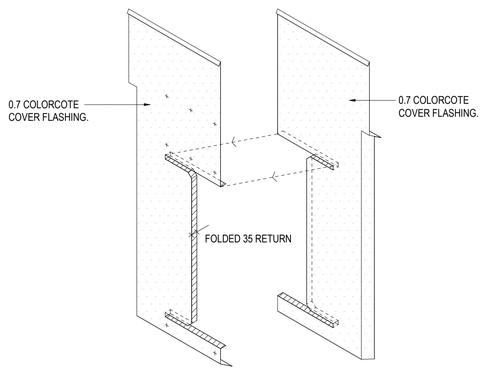
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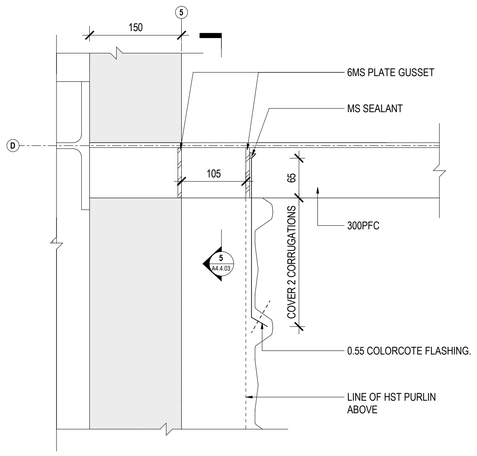


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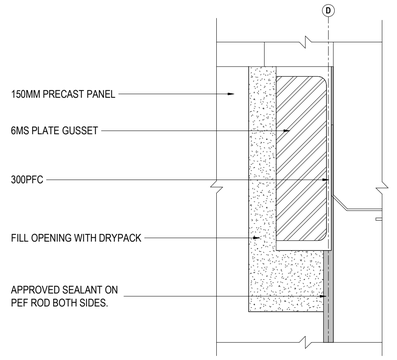


TWO PIECE COVER FLASHING ISOMETRIC

DETAIL **3**
1 : 10



DETAIL **4**
1 : 5 A1.03



DETAIL **5**
1 : 5 A4.4.03

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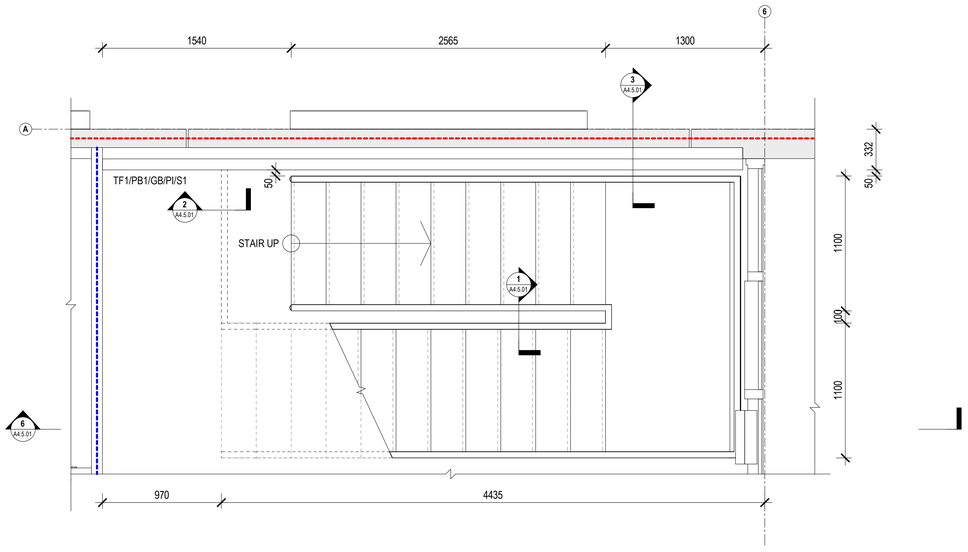
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DATE	13.09.2022
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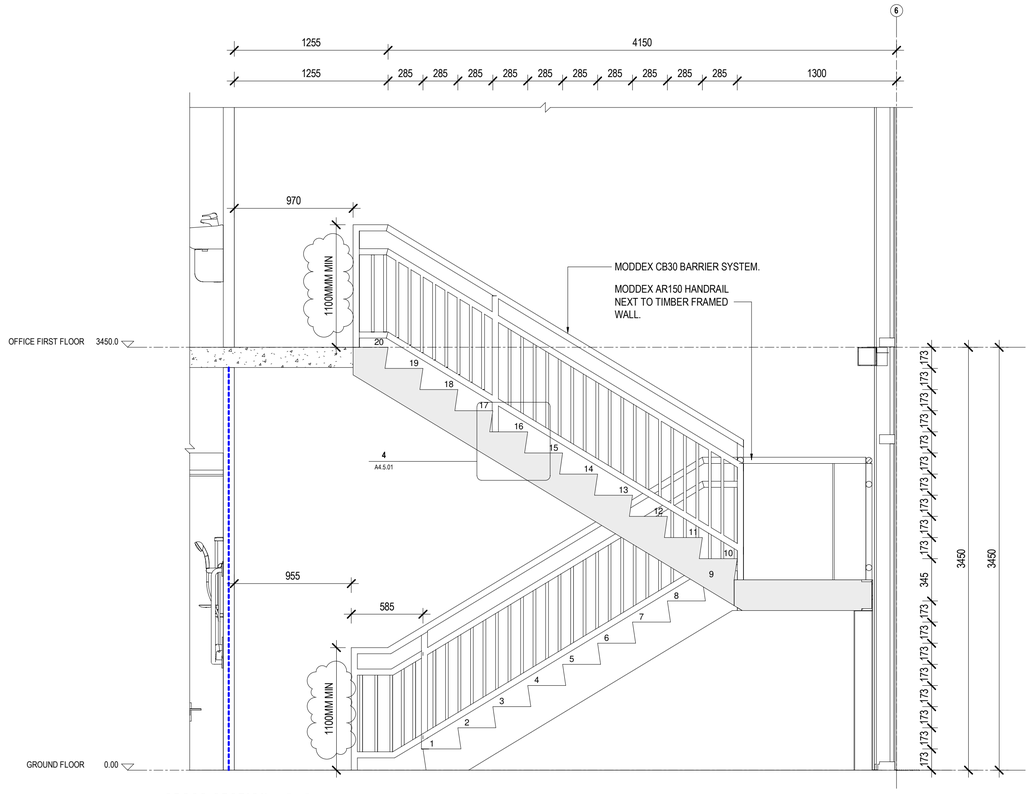
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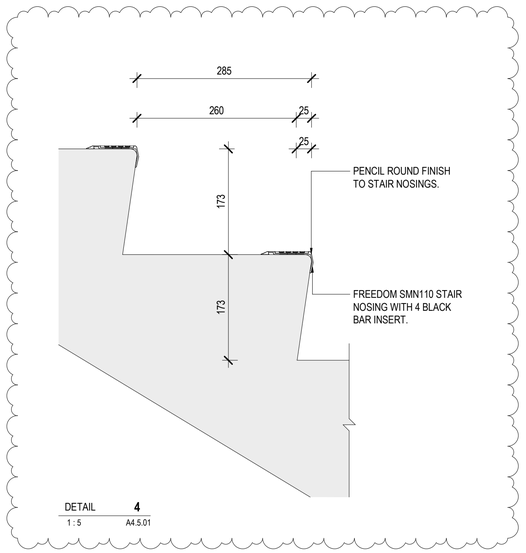


PRECAST CONCRETE STAIR PLAN GROUND FLOOR
SCALE 1 : 25

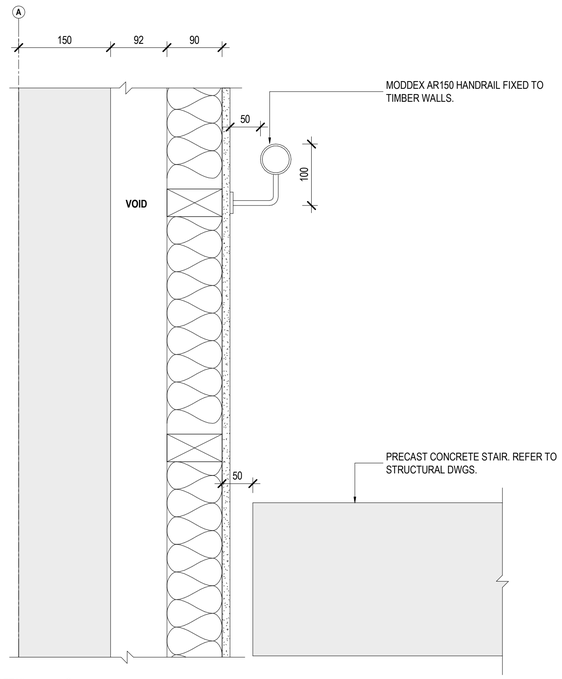
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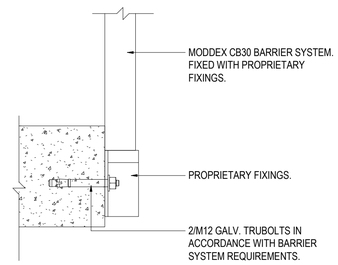
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SCALE 1 : 25



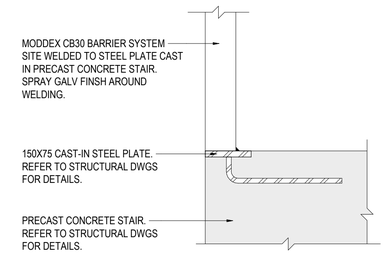
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DETAIL **3**
1 : 5 A4.5.01



DETAIL **2**
1 : 5 A4.5.01



DETAIL **1**
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STAIR DETAILS

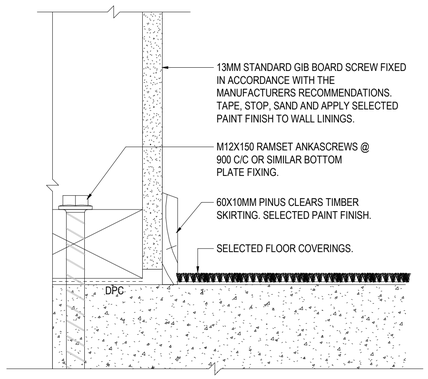
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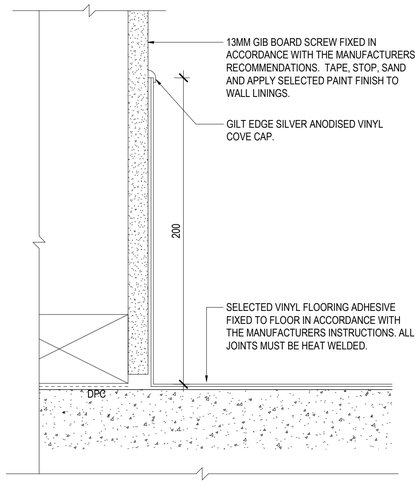
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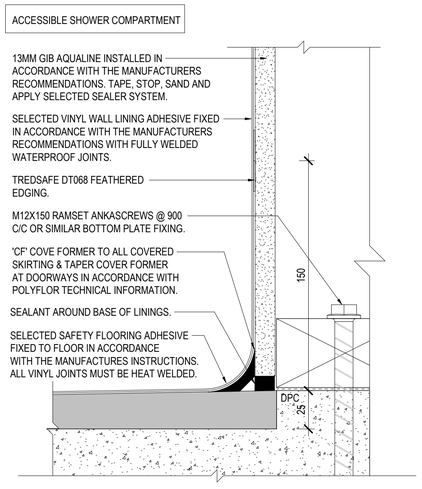
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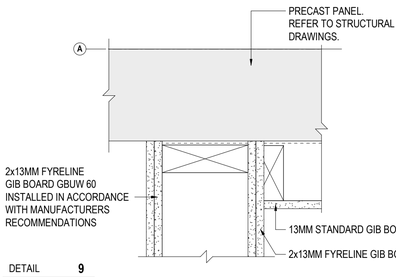
TYPICAL TIMBER SKIRTING DETAIL



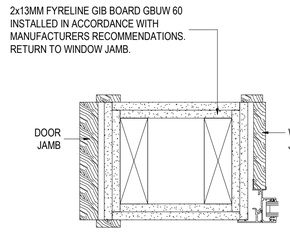
TYPICAL VINYL COVE DETAIL



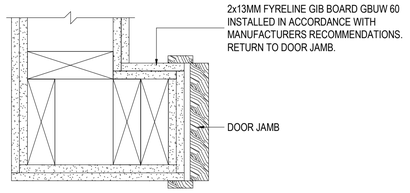
TYPICAL ACCESSIBLE SHOWER DETAIL



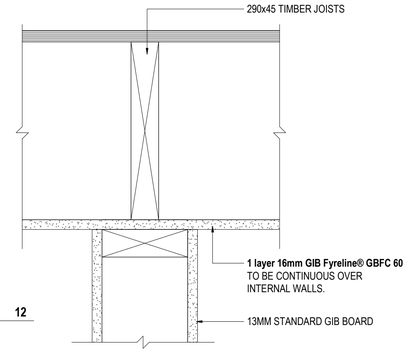
DETAIL **9** 1 : 5 A1.02



DETAIL **11** 1 : 5 A1.02

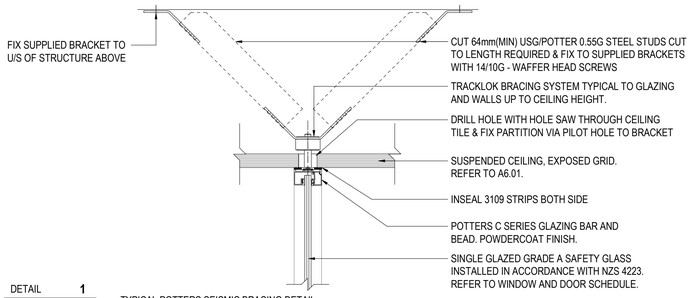


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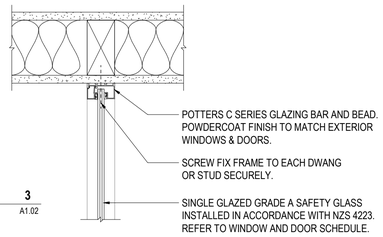
DETAIL **12** 1 : 5

DETAIL **2** 1 : 2

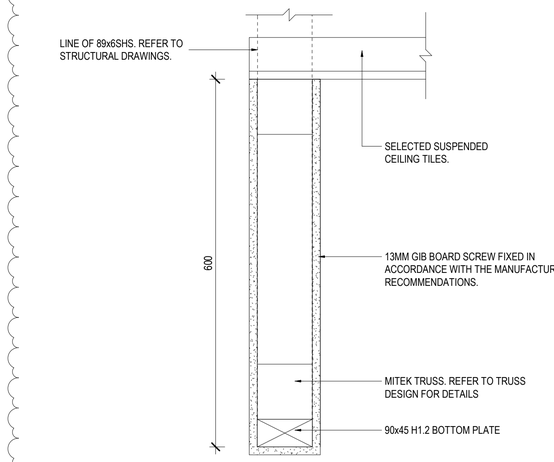


DETAIL **1** 1 : 5

TYPICAL POTTERS SEISMIC BRACING DETAIL



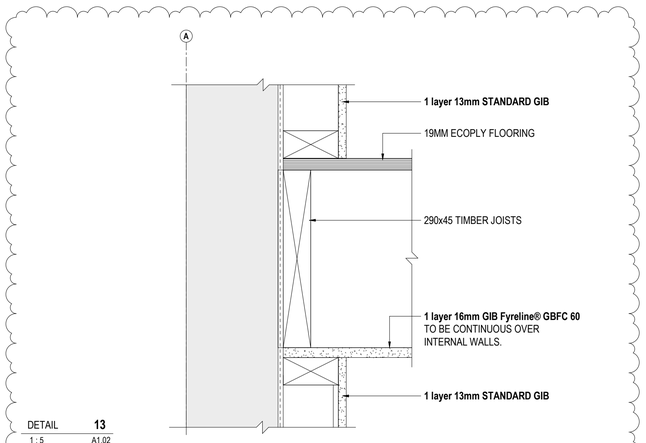
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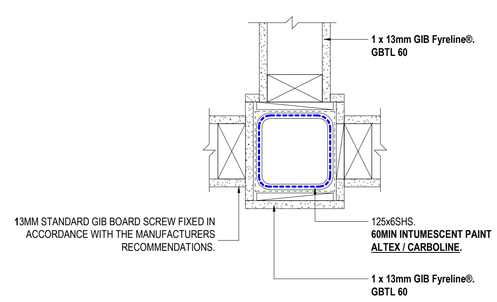
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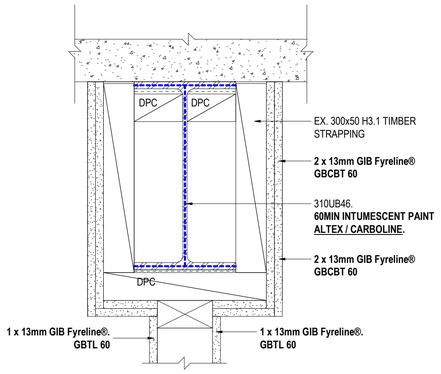
INTERNAL VIEW WITH DRAFT CURTAIN



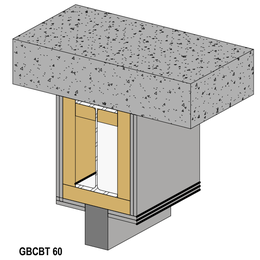
DETAIL **13** 1 : 5 A1.02



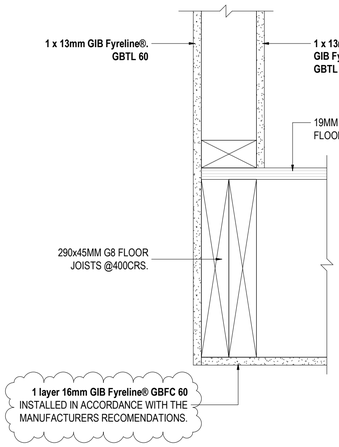
DETAIL **6** 1 : 5 A1.02



DETAIL **7** 1 : 5 A1.02



GBCBT 60



DETAIL **8** 1 : 5 A1.02

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BELFAST ROAD
CHRISTCHURCH

INTERNAL DETAILS

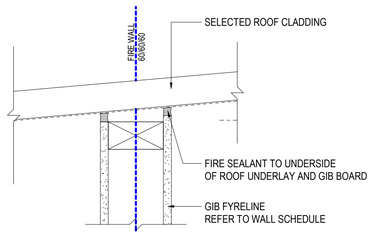
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DATE	04.10.2022
JOB No.	2154
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STATUS	BUILDING CONSENT
DRAWING No.	REVISION
A4.6.01	B

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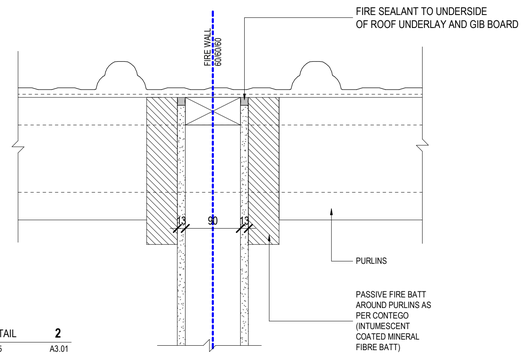
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DETAIL 1
1 : 5 A3.01



DETAIL 2
1 : 5 A3.01

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INTERNAL DETAILS

SCALE @ A1	1 : 5
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STATUS	BUILDING CONSENT

DRAWING No. A4.6.02

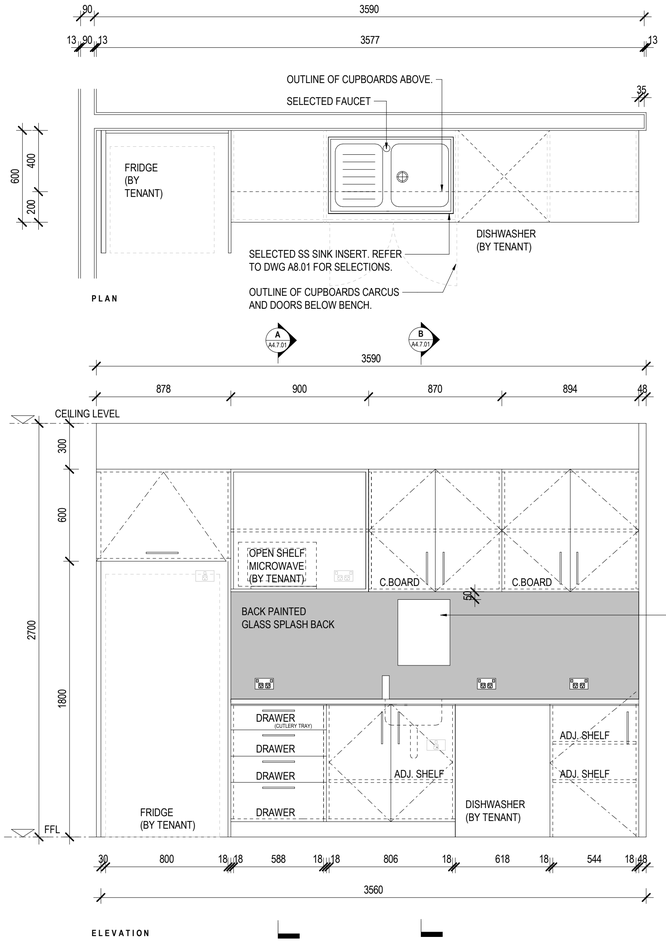
REVISION A

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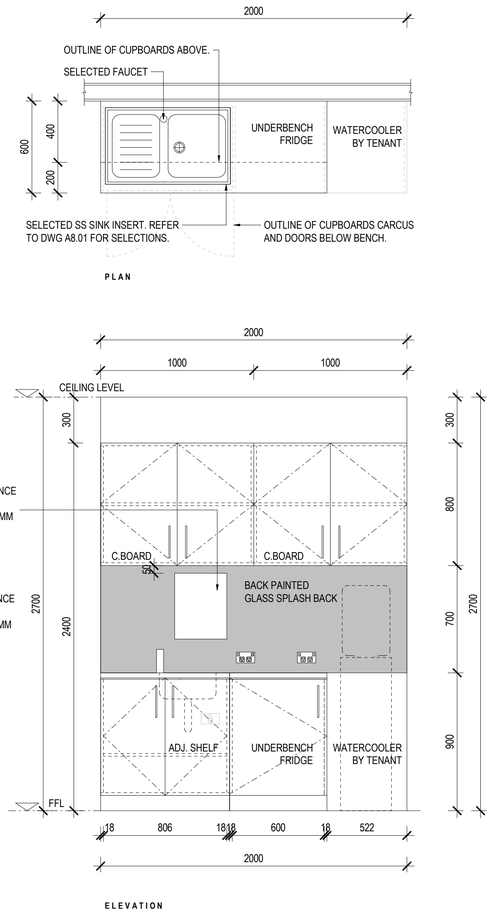
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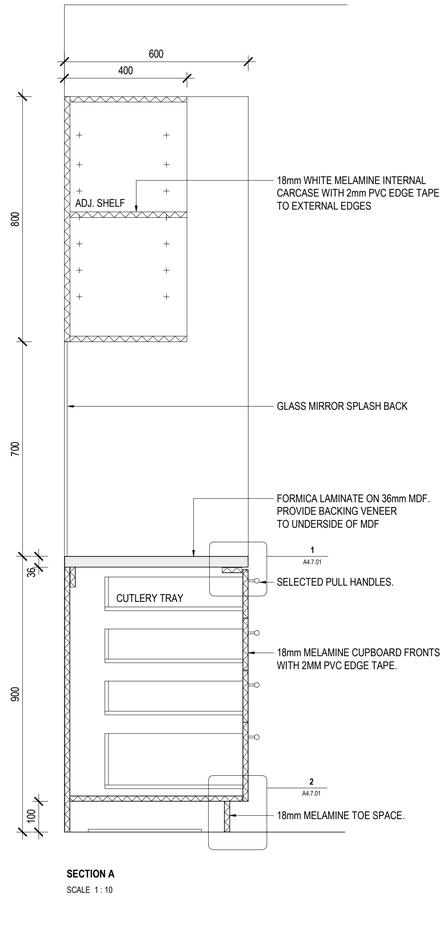
STAFF CAFE FIRST FLOOR - JOINERY

SCALE 1 : 20



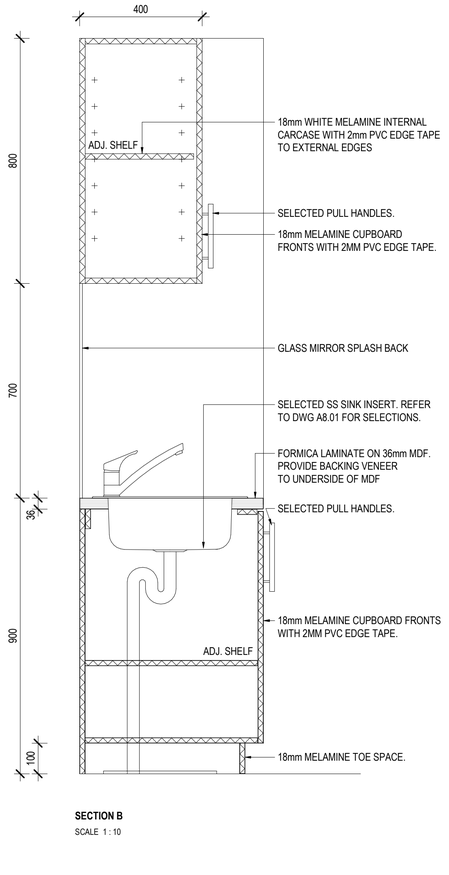
CAFE GROUND FLOOR - JOINERY

SCALE 1 : 20



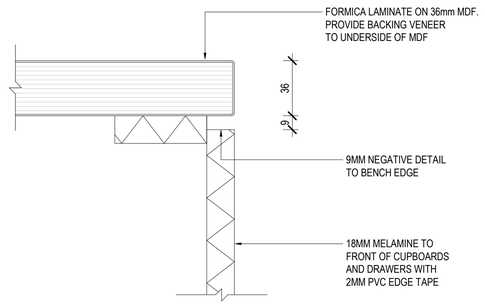
SECTION A

SCALE 1 : 10

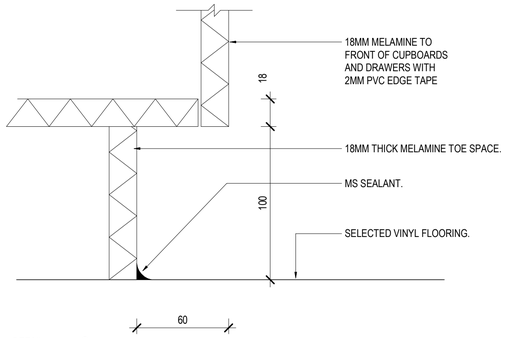


SECTION B

SCALE 1 : 10



DETAIL **1**
1 : 2 A4.7.01



DETAIL **2**
1 : 2 A4.7.01

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JOINERY DETAILS

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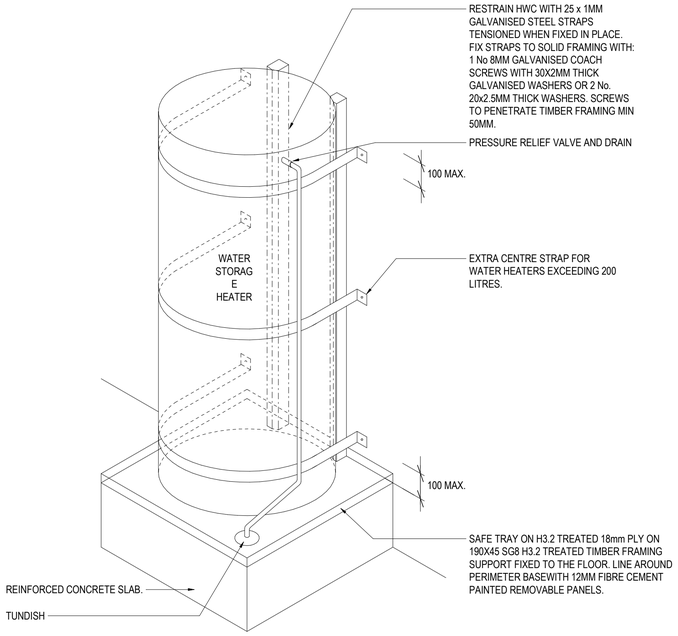
REVISION

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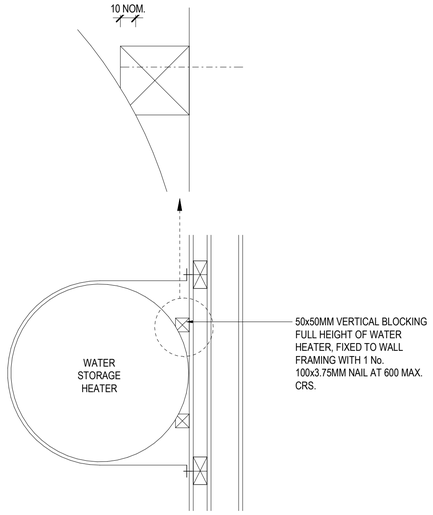
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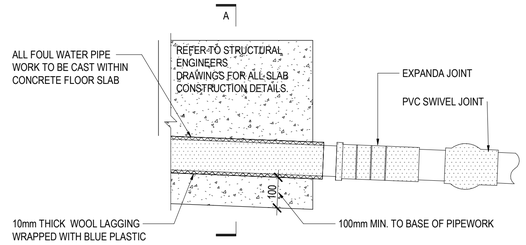
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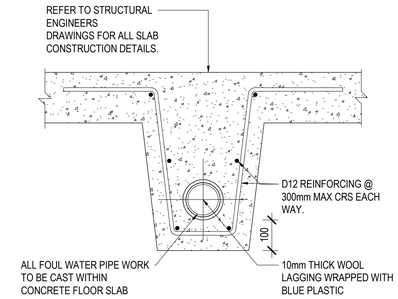
DETAIL **1**
1 : 10



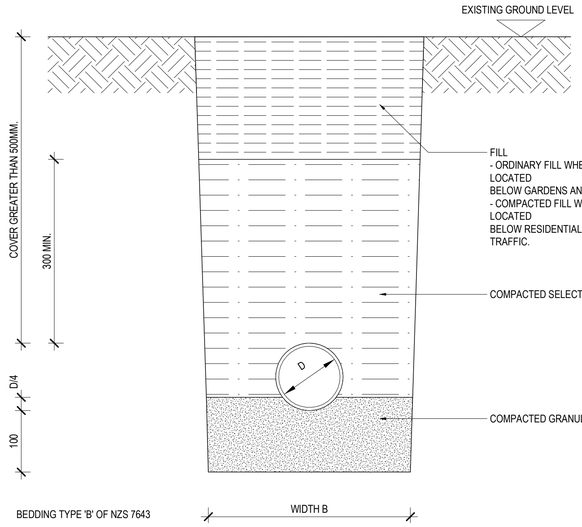


PVC PIPE SWIVEL / EXPANSION JOINT

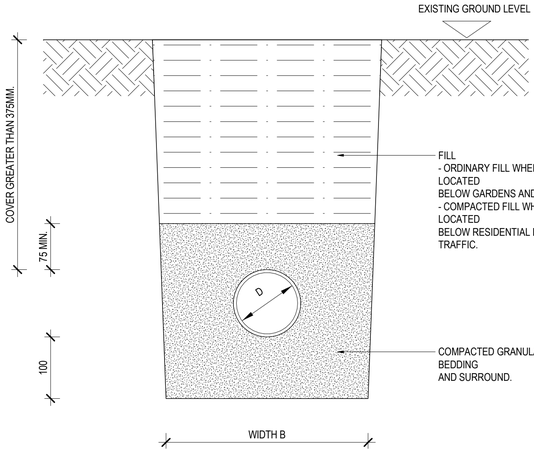
SWIVEL / EXPANSION JOINT
SCALE 1 : 10



SECTION A

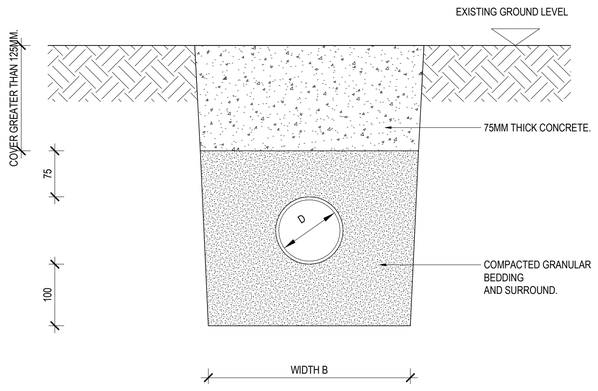


A BEDDING TYPE 'B' OF NZS 7643
COVER GREATER THAN 500MM



B BEDDING TYPE 'B' OF NZS 7643
COVER GREATER THAN 375MM

INTERNAL DOWNPIPE ACESS POINT
SCALE 1 : 5

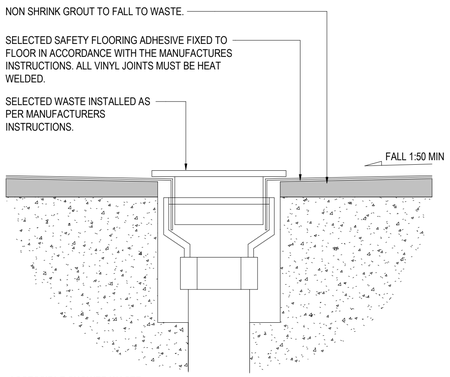


C COVER BETWEEN 125MM AND 375MM

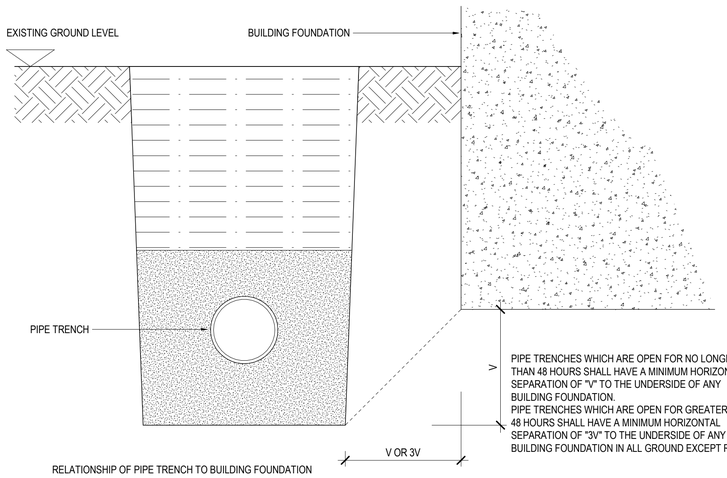
TRENCH WIDTH B

NO LESS THAN PIPE DIAMETER PLUS 200MM.
THE WIDTH OF THE TRENCH AT THE TOP OF THE PIPE SHALL BE NO MORE THE 600MM UNLESS THE PIPES IN THE TRENCH ARE COVERED WITH CONCRETE, AS SHOWN IN FIGURE C.

TYPICAL TRENCH DETAILS
SCALE 1 : 5



ACCESSIBLE SHOWER WASTE
SCALE 1 : 2



RELATIONSHIP OF PIPE TRENCH TO BUILDING FOUNDATION

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PLUMBING & DRAINAGE DETAILS

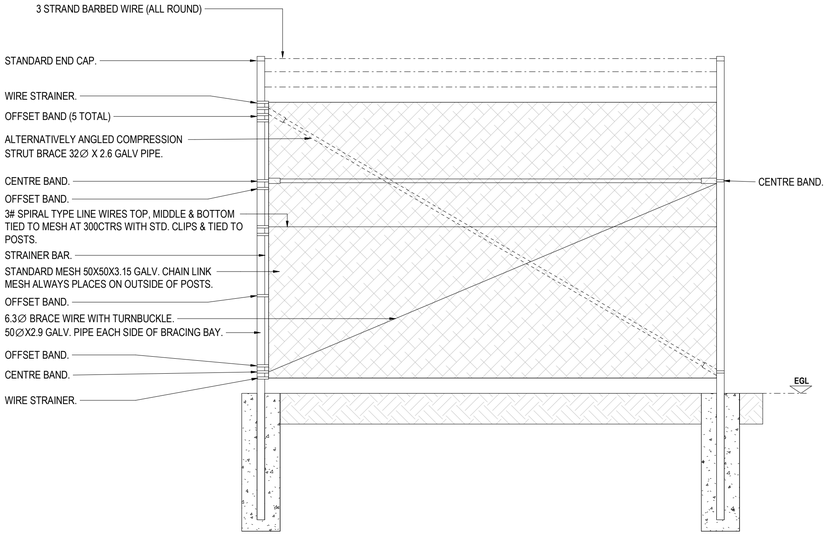
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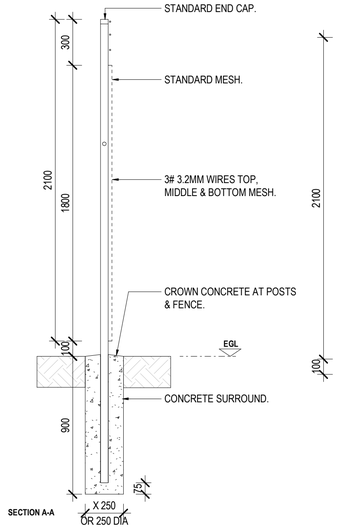
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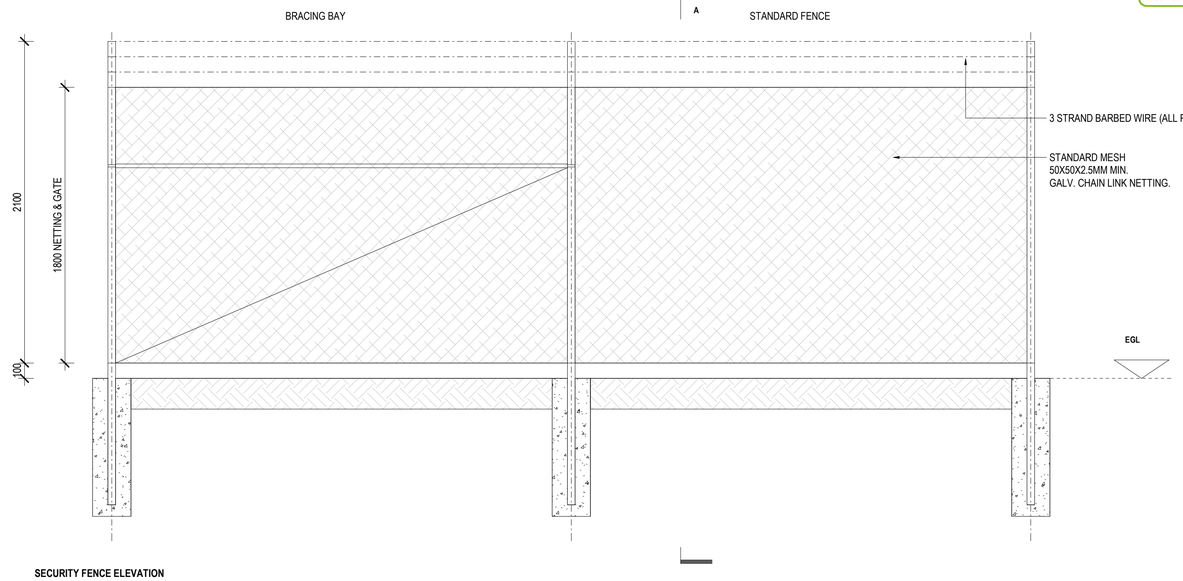
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TYPICAL BRACING BAY



SECTION A-A



SECURITY FENCE ELEVATION

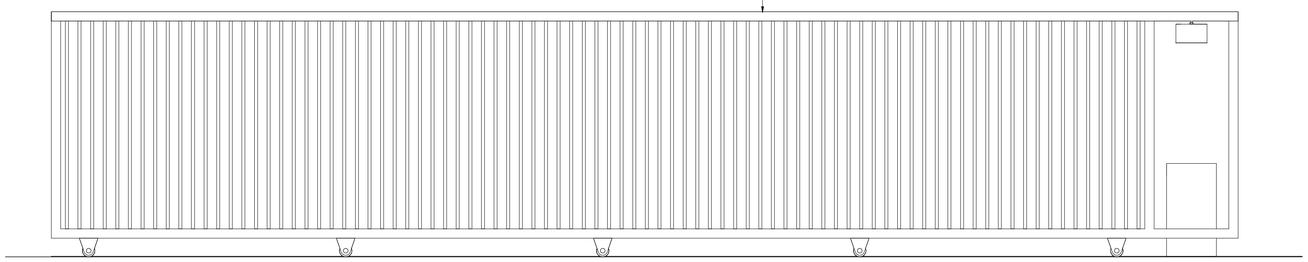
SECURITY FENCE BRACING BAY
SCALE 1 : 20

IMPORTANT NOTE:

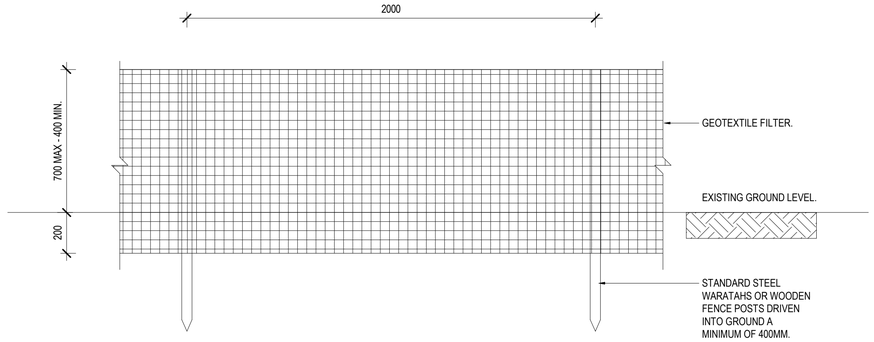
MOTORISED SLIDING SECURITY GATE WITH FAIL SAFE EMERGENCY DOOR RELEASE. FIRE ALARM INTERFACE REQUERIMENTS.

GATE 1 TO BE CONECTED TO SECURITY SYSTEM AND FIRE ALARM SYSTEM SO GATE WILL AUTOMATICALLY UNLOCK & OPEN WHEN THE FIRE ALARM IS ACTIVATED.

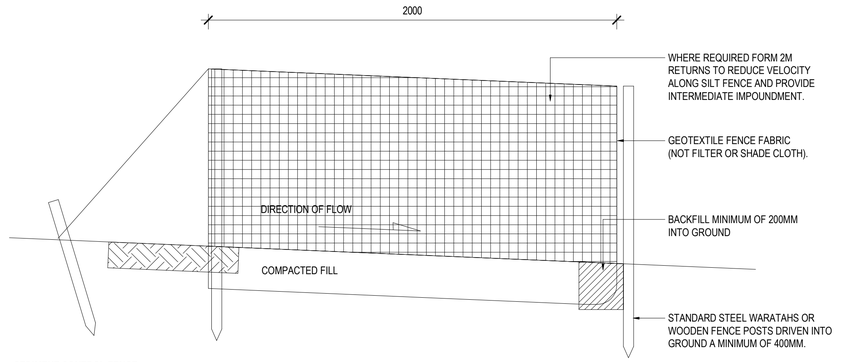
PROVIDE FAIL SAFE EMERGENCY DOOR RELEASE FUNCTION IN ACCORDANCE WITH ASSOCIATED BUILDING COMPLIANCE CODE OF PRACTICE FOR ELECTRO MECHANICAL CONTROLLED LOCKING DEVICES ON EGRESS DOORS, SO SYSTEM OR OPERATION SET-UP WILL ALLOW THE GATE TO REVERSAL DURING A POWER FAILURE EMERGENCY EGRESS OR SYSTEM FAULT, THE GATE WILL BE ABLE TO BE OPENED MANUALLY.



SLIDING GATE
SCALE 1 : 25



SEDIMENT CONTROL FENCE ELEVATION



SEDIMENT CONTROL FENCE

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SITEWORKS DETAILS

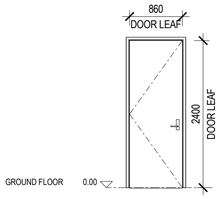
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JOB No.	2154
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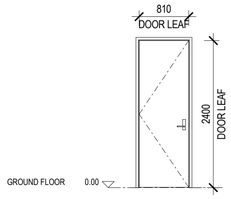
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DG01, DG02, DG03

SCALE 1 : 50

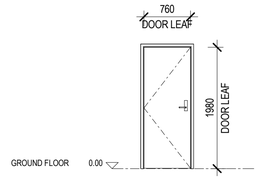
LOCATION	OFFICE 01, OFFICE 02, OFFICE 03
SYSTEM	SINGLE HINGED DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	NO
DOOR CLOSERS	NO
SIGNAGE	NO
SPECIAL	NO
FINISH	PAINT QUALITY



DG04

SCALE 1 : 50

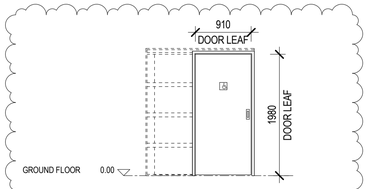
LOCATION	CLEANERS
SYSTEM	SINGLE HINGED DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	YES
DOOR CLOSERS	YES
SIGNAGE	NO
SPECIAL	NO
FINISH	PAINT QUALITY



DG05

SCALE 1 : 50

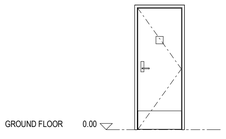
LOCATION	DATA RACK
SYSTEM	SINGLE HINGED DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	NO
DOOR CLOSERS	NO
SIGNAGE	NO
SPECIAL	NO
FINISH	PAINT QUALITY



DG06

SCALE 1 : 50

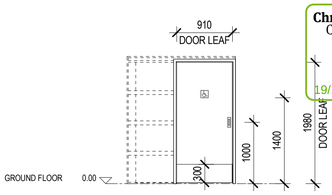
LOCATION	PASSAGE AMENITIES GF
SYSTEM	SELF-CLOSING SLINDING DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	40X12MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	YES
DOOR CLOSERS	YES
SIGNAGE	ACCESSIBLE SIGN ONE SIDE
SPECIAL	NO
FINISH	PAINT QUALITY



DG07

SCALE 1 : 50

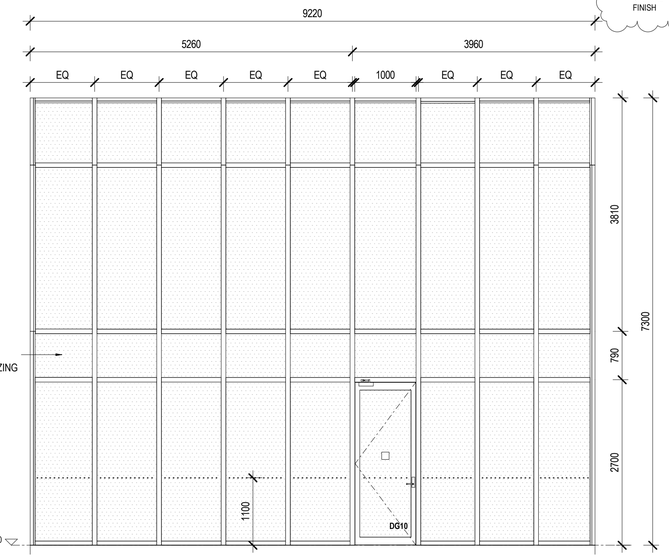
LOCATION	WC01
SYSTEM	SINGLE HINGED DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	YES
DOOR CLOSERS	YES
SIGNAGE	UNISEX TOILET SIGN
SPECIAL	POLISHED SS KICKPLATE BOTH SIDES 300X1.6
FINISH	PAINT QUALITY



DG08

SCALE 1 : 50

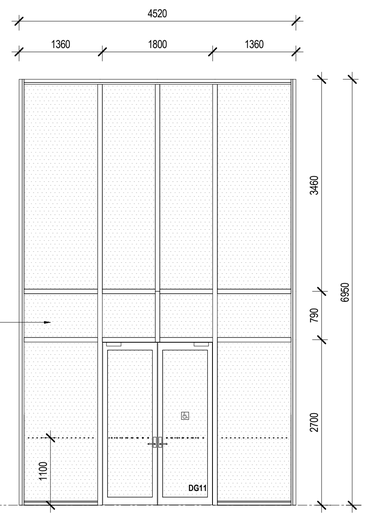
LOCATION	UNISEX ACCESSIBLE WC / SHOWER
SYSTEM	SINGLE SLIDING DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	AS PER MANUFACTURER
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	NO
HANDLE	CL100 LAVLOCK
LOCKS	CL100 LAVLOCK
ACCESS CONTROL	NO
DOOR STOPS	PROPRIETARY
DOOR CLOSERS	NO
SIGNAGE	ACCESSIBLE SIGN ONE SIDE
SPECIAL	POLISHED SS KICKPLATE BOTH SIDES 300X1.6
FINISH	PAINT QUALITY



DG10, WG01

SCALE 1 : 50

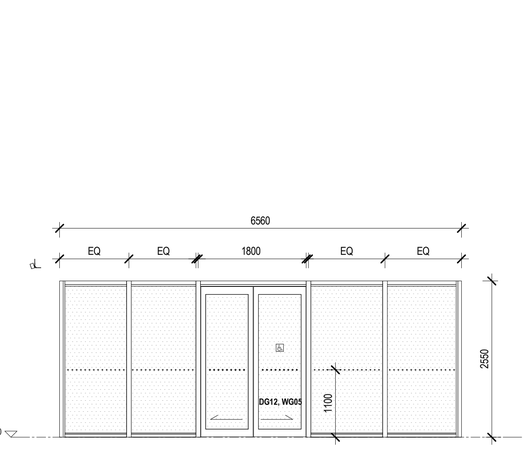
LOCATION	OFFICE
SYSTEM	APL 150MM FLUSHGLAZE SEISMIC SUITE
DOOR	APL MAGNUM 50 HINGED DOOR SUITE
GLASS	CLEAR GRADE A SAFETY DOUBLE GLAZING AS PER NZS 4223.3.2016
FRAME	NO
REVEAL	NO
ARCHITRAVE	NO
FIRE RATING	NO
INSULATION RATING	0.26
SOUND RATING	NO
WALL TYPE	PRECAST CONCRETE
HINGES	5 No. PROPRIETARY POWDERCOATED ALUMINUM
HANDLE	COMMERCIAL SS GRADE
LOCKS	LOCKING LATCH SET. KEYLESS IN DIRECTION OF ESCAPE
ACCESS CONTROL	NO
DOOR STOPS	INTEGRATED WITH DOOR CLOSER
DOOR CLOSERS	YES WITH INTEGRATED HOLD OPEN DEVICES
SIGNAGE	FIRE ESCAPE DOOR PLEASE KEEP CLEAR
SPECIAL	Ø20 WHITE OPAQUE DOTS @ 70MM CRS.
FINISH	SELECTED POWDERCOATED



DG11, WG02

SCALE 1 : 50

LOCATION	RECEPTION
SYSTEM	APL 150MM FLUSHGLAZE SEISMIC SUITE
DOOR	APL MAGNUM 50 HINGED DOOR SUITE
GLASS	CLEAR GRADE A SAFETY DOUBLE GLAZING AS PER NZS 4223.3.2016
FRAME	NO
REVEAL	NO
ARCHITRAVE	NO
FIRE RATING	NO
INSULATION RATING	0.26
SOUND RATING	NO
WALL TYPE	PRECAST CONCRETE
HINGES	5 No. PROPRIETARY POWDERCOATED ALUMINUM
HANDLE	COMMERCIAL SS GRADE
LOCKS	LOCKING LATCH SET. KEYLESS IN DIRECTION OF ESCAPE
ACCESS CONTROL	NO
DOOR STOPS	INTEGRATED WITH DOOR CLOSER
DOOR CLOSERS	YES WITH INTEGRATED HOLD OPEN DEVICES
SIGNAGE	ACCESSIBLE SIGN ONE SIDE
SPECIAL	Ø20 WHITE OPAQUE DOTS @ 70MM CRS, LOCKED + BLOCKED
FINISH	SELECTED POWDERCOATED



DG12, WG05

SCALE 1 : 50

LOCATION	RETAIL SPACE
SYSTEM	APL 150MM FLUSHGLAZE SEISMIC SUITE
DOOR	APL SLIDING DOORS
GLASS	CLEAR GRADE A SAFETY DOUBLE GLAZING AS PER NZS 4223.3.2016
FRAME	NO
REVEAL	NO
ARCHITRAVE	NO
FIRE RATING	NO
INSULATION RATING	0.26
SOUND RATING	NO
WALL TYPE	PRECAST CONCRETE/STEEL GIRTS
HINGES	5 No. PROPRIETARY POWDERCOATED ALUMINUM
HANDLE	COMMERCIAL SS GRADE
LOCKS	LOCKING LATCH SET. KEYLESS IN DIRECTION OF ESCAPE
ACCESS CONTROL	NO
DOOR STOPS	INTEGRATED WITH DOOR CLOSER
DOOR CLOSERS	YES WITH INTEGRATED HOLD OPEN DEVICES
SIGNAGE	ACCESSIBLE SIGN ONE SIDE
SPECIAL	Ø20 WHITE OPAQUE DOTS @ 70MM CRS.
FINISH	SELECTED POWDERCOATED

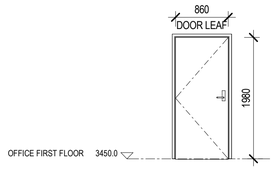
DG09

SCALE 1 : 50

LOCATION	STAIR GF
SYSTEM	SINGLE HINGED DOOR
DOOR	SOLID CORE 60 FRR SET
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	YES -60/60 SM FRR
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	YES
DOOR CLOSERS	YES
SIGNAGE	NO
SPECIAL	FIRE RATED. REFER TO FIRE REPORT
FINISH	PAINT QUALITY

Product:
Hallmark 60 Min Fire Rated Hinged Single Door

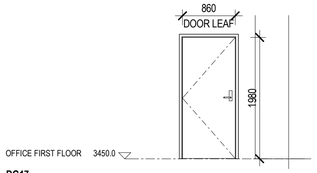
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DG14, DG15, DG16

SCALE 1 : 50

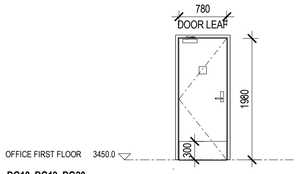
LOCATION	OFFICE 04, OFFICE 05, OFFICE 06
SYSTEM	SINGLE HINGED DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	NO
DOOR CLOSERS	NO
SIGNAGE	NO
SPECIAL	NO
FINISH	PAINT QUALITY



DG17

SCALE 1 : 50

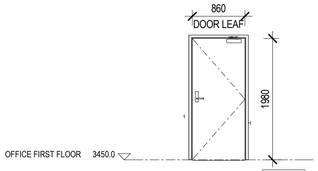
LOCATION	PASSAGE FIRST FLOOR
SYSTEM	SINGLE HINGED DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	40X12MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	YES
DOOR CLOSERS	YES
SIGNAGE	NO
SPECIAL	NO
FINISH	PAINT QUALITY



DG18, DG19, DG20

SCALE 1 : 50

LOCATION	WC02, WC03, WC04
SYSTEM	SINGLE HINGED DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	YES
DOOR CLOSERS	YES
SIGNAGE	UNISEX TOILET SIGN
SPECIAL	NO
FINISH	PAINT QUALITY



DG21

SCALE 1 : 50

LOCATION	PASSAGE AMENITIES FF
SYSTEM	SINGLE HINGED DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	PINUS CLEAR
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	YES
DOOR CLOSERS	YES
SIGNAGE	NO
SPECIAL	NO
FINISH	PAINT QUALITY

NOTES:
EXTERNAL WINDOW & DOORS SIZES SHOWN ON DRAWINGS ARE INDICATIVE OPENING SIZES ONLY AND SHOULD NOT BE MANUFACTURED. ACTUAL SIZES TO BE MEASURED ON SITE.

ALL DOOR HINGES TO BE POWDERCOATED TO MATCH ALUMINIUM JOINERY.

ALL WINDOW LATCHES TO BE POWDERCOATED TO MATCH ALUMINIUM JOINERY.

ALL METAL ROLLER SHUTTER DOOR TO COMPLY WITH AS/NZS 4505:2012.

INTERNAL DOOR DIMENSIONS ARE TAKEN TO DOOR LEAF.

WINDOW VIEW FROM OUTSIDE LOOKING IN.

Christchurch City Council
BCN/2022/5630
Approved Building Consent Document
19/10/2022 Nilsson, Michael
13.09.2022

CLIENT
ZEAL CONSTRUCTION

CONSULTANTS
ENGENIUM CONSULTING ENGINEERS
POWELL FENWICK

INDUSTRIAL DEVELOPMENT
LOT 6/61 BELFAST ROAD
BELFAST ROAD
CHRISTCHURCH

WINDOW & DOOR SCHEDULE

SCALE @ A1	1 : 50
DATE	13.09.2022
JOB No.	2154
DRAWN	NLC
CHECKED	RT
STATUS	BUILDING CONSENT

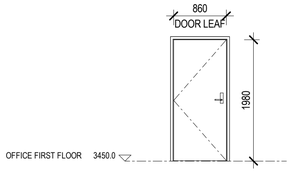
DRAWING No. A5.01
REVISION (A)

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architecture studio
architecture | interior design

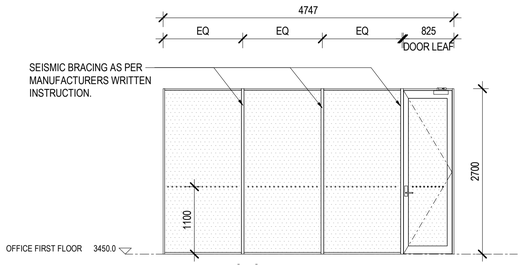
Christchurch City Council
BCN/2022/5630
Approved Building Consent Document
19/10/2022 Nilsson, Michael



DG22

SCALE 1 : 50

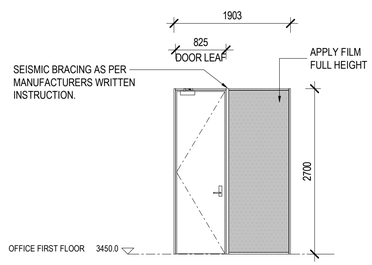
LOCATION	STAIR FIRST FLOOR
SYSTEM	SINGLE HINGED DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL
GLASS	NO
FRAME	30MM PINUS CLEARS
REVEAL	NO
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	YES
DOOR CLOSERS	YES
SIGNAGE	NO
SPECIAL	NO
FINISH	PAINT QUALITY



DG23, WF12

SCALE 1 : 50

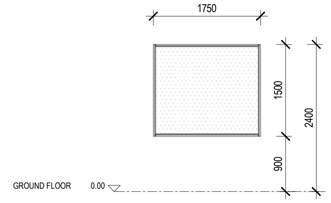
LOCATION	MEETING ROOM
SYSTEM	POTTERS C SERIES 45 FIXED GLAZED PARTITION
DOOR	POTTERS DOOR SYSTEM
GLASS	CLEAR ACOUSTIC LAMINATED SAFETY GLASS AS PER NZS 4223.3.2016
FRAME	NO
REVEAL	NO
ARCHITRAVE	NO
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	N/A
HANDLE	SELECTED RECESS PULL HANDLE
LOCKS	LOCKING SET
ACCESS CONTROL	NO
DOOR STOPS	PROPRIETARY
DOOR CLOSERS	NO
SIGNAGE	NO
SPECIAL	Ø20 WHITE OPAQUE DOTS @ 70MM CRS.
FINISH	SELECTED POWDERCOATED



DG24, WF13

SCALE 1 : 50

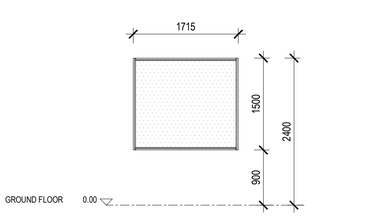
LOCATION	STORAGE
SYSTEM	POTTERS C SERIES 45 FIXED GLAZED PARTITION
DOOR	40MM CARBON CORE MDF LINED FLUSH PANEL, NON CLASHED EDGES
GLASS	CLEAR GRADE A SAFETY SINGLE GLAZING AS PER NZS 4223.3.2016
FRAME	NO
REVEAL	NO
ARCHITRAVE	NO
FIRE RATING	NO
INSULATION RATING	0.26
SOUND RATING	NO
WALL TYPE	90MM TIMBER FRAMING
HINGES	N/A
HANDLE	SELECTED RECESS PULL HANDLE
LOCKS	LOCKING SET
ACCESS CONTROL	NO
DOOR STOPS	PROPRIETARY
DOOR CLOSERS	NO
SIGNAGE	NO
SPECIAL	Ø20 WHITE OPAQUE DOTS @ 70MM CRS.
FINISH	SELECTED POWDERCOATED



WG03, WG04, WG05

SCALE 1 : 50

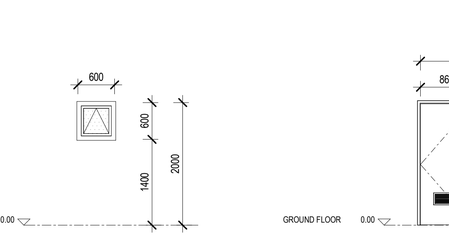
LOCATION	OFFICE 01, OFFICE 02, OFFICE 03
SYSTEM	APL 40MM COMMERCIAL SUITE
DOOR	NO
GLASS	CLEAR GRADE A SAFETY DOUBLE GLAZING AS PER NZS 4223.3.2016
FRAME	ALUMINIUM
REVEAL	PINUS CLEARS
ARCHITRAVE	N/A
FIRE RATING	NO
INSULATION RATING	0.26
SOUND RATING	NO
WALL TYPE	TIMBER FRAMING
HINGES	N/A
HANDLE	N/A
LOCKS	N/A
ACCESS CONTROL	N/A
DOOR STOPS	N/A
DOOR CLOSERS	N/A
SIGNAGE	NO
SPECIAL	NO
FINISH	SELECTED POWDERCOATED



WF06, WF07, WF08

SCALE 1 : 50

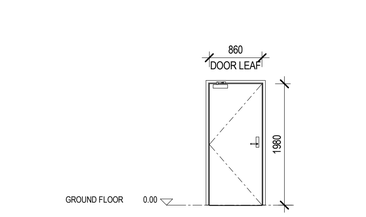
LOCATION	OFFICE 04, OFFICE 05, OFFICE 06
SYSTEM	APL 40MM COMMERCIAL SUITE
DOOR	NO
GLASS	CLEAR GRADE A SAFETY DOUBLE GLAZING AS PER NZS 4223.3.2016
FRAME	ALUMINIUM
REVEAL	PINUS CLEARS
ARCHITRAVE	N/A
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	TIMBER FRAMING
HINGES	N/A
HANDLE	N/A
LOCKS	N/A
ACCESS CONTROL	N/A
DOOR STOPS	N/A
DOOR CLOSERS	N/A
SIGNAGE	NO
SPECIAL	NO
FINISH	SELECTED POWDERCOATED



WF09, WF14

SCALE 1 : 50

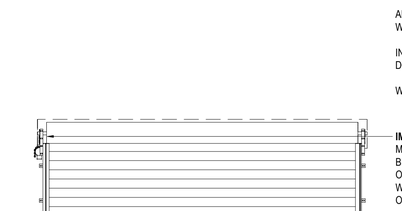
LOCATION	PASSAGE FIRST FLOOR, OFFICE 04
SYSTEM	APL 40MM COMMERCIAL SUITE
DOOR	NO
GLASS	CLEAR GRADE A SAFETY DOUBLE GLAZING AS PER NZS 4223.3.2016
FRAME	ALUMINIUM
REVEAL	PINUS CLEARS
ARCHITRAVE	N/A
FIRE RATING	YES 60/60/60 MIN.
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	TIMBER FRAMING
HINGES	N/A
HANDLE	N/A
LOCKS	N/A
ACCESS CONTROL	N/A
DOOR STOPS	N/A
DOOR CLOSERS	N/A
SIGNAGE	NO
SPECIAL	NO
FINISH	SELECTED POWDERCOATED



WF10

SCALE 1 : 50

LOCATION	AMENITIES FIRST FLOOR
SYSTEM	APL 40MM COMMERCIAL SUITE
DOOR	NO
GLASS	CLEAR GRADE A SAFETY DOUBLE GLAZING AS PER NZS 4223.3.2016
FRAME	ALUMINIUM
REVEAL	19MM FINGER JOINTED PINUS CLEARS REBATED FOR GIB
ARCHITRAVE	N/A
FIRE RATING	NO
INSULATION RATING	0.26
SOUND RATING	NO
WALL TYPE	TIMBER FRAMING
HINGES	N/A
HANDLE	N/A
LOCKS	N/A
ACCESS CONTROL	N/A
DOOR STOPS	N/A
DOOR CLOSERS	N/A
SIGNAGE	N/A
SPECIAL	NO
FINISH	SELECTED POWDERCOATED



WF11

SCALE 1 : 50

LOCATION	STAIR
SYSTEM	APL 40MM COMMERCIAL SUITE
DOOR	NO
GLASS	CLEAR GRADE A SAFETY DOUBLE GLAZING AS PER NZS 4223.3.2016
FRAME	ALUMINIUM
REVEAL	19MM FINGER JOINTED PINUS CLEARS REBATED FOR GIB
ARCHITRAVE	N/A
FIRE RATING	NO
INSULATION RATING	0.26
SOUND RATING	NO
WALL TYPE	PRECAST PANEL
HINGES	N/A
HANDLE	N/A
LOCKS	N/A
ACCESS CONTROL	N/A
DOOR STOPS	N/A
DOOR CLOSERS	N/A
SIGNAGE	NO
SPECIAL	NO
FINISH	SELECTED POWDERCOATED

NOTES:
EXTERNAL WINDOW & DOORS SIZES SHOWN ON DRAWINGS ARE INDICATIVE OPENING SIZES ONLY AND SHOULD NOT BE MANUFACTURED. ACTUAL SIZES TO BE MEASURED ON SITE.

ALL DOOR HINGES TO BE POWDERCOATED TO MATCH ALUMINIUM JOINERY.

ALL WINDOW LATCHES TO BE POWDERCOATED TO MATCH ALUMINIUM JOINERY.

ALL METAL ROLLER SHUTTER DOOR TO COMPLY WITH AS/NZS 4505:2012.

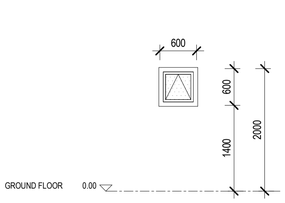
INTERNAL DOOR DIMENSIONS ARE TAKEN TO DOOR LEAF.

WINDOW VIEW FROM OUTSIDE LOOKING IN.

WG12, WG13

SCALE 1 : 50

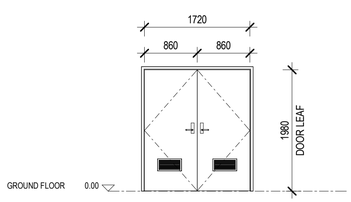
LOCATION	OFFICE 02, OFFICE 03
SYSTEM	APL 40MM COMMERCIAL SUITE
DOOR	NO
GLASS	CLEAR GRADE A SAFETY DOUBLE GLAZING AS PER NZS 4223.3.2016
FRAME	ALUMINIUM
REVEAL	19MM FINGER JOINTED PINUS CLEARS REBATED FOR GIB
ARCHITRAVE	N/A
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	TIMBER FRAMING
HINGES	N/A
HANDLE	N/A
LOCKS	N/A
ACCESS CONTROL	N/A
DOOR STOPS	N/A
DOOR CLOSERS	N/A
SIGNAGE	NO
SPECIAL	NO
FINISH	SELECTED POWDERCOATED



WG14

SCALE 1 : 50

LOCATION	
SYSTEM	
DOOR	
GLASS	
FRAME	
REVEAL	
ARCHITRAVE	
FIRE RATING	
INSULATION RATING	
SOUND RATING	
WALL TYPE	
HINGES	
HANDLE	
LOCKS	
ACCESS CONTROL	
DOOR STOPS	
DOOR CLOSERS	
SIGNAGE	
SPECIAL	
FINISH	



DG25

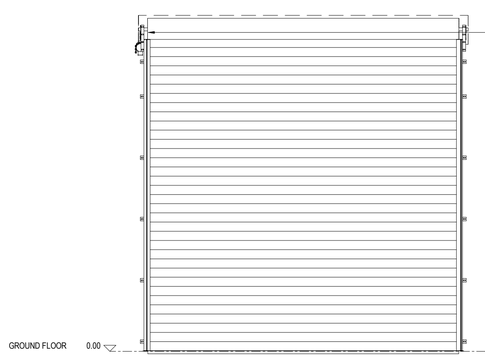
SCALE 1 : 50

LOCATION	SPRINKLE VALVE ROOM
SYSTEM	SINGLE HINGED DOOR
DOOR	40MM HOLLOW CORE MDF LINED FLUSH PANEL, NON CLASHED EDGES
GLASS	CLEAR LAMINATED SAFETY GLASS
FRAME	30MM PINUS CLEARS
REVEAL	FIBROUS PLASTER
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	140MM TIMBER FRAMING
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	FLOOR MOUNTED
DOOR CLOSERS	YES
SIGNAGE	ACCESSIBLE SIGN ONE SIDE
SPECIAL	NO
FINISH	3 COATS SEMI-GLOSS ENAMEL

DG26

SCALE 1 : 50

LOCATION	WAREHOUSE
SYSTEM	SINGLE HINGED DOOR
DOOR	PROPRIETARY SOLID CORE COLOURSTEEL WRAPPED
GLASS	NO
FRAME	PROPRIERARY HDG POWERCOATED
REVEAL	NO
ARCHITRAVE	40X10MM PINUS CLEARS
FIRE RATING	NO
INSULATION RATING	NO
SOUND RATING	NO
WALL TYPE	PRECAST CONCRETE
HINGES	4 No. 100MM SS BROAD BUTT BALL BEARING
HANDLE	LEVER BOTH SIDES
LOCKS	NO
ACCESS CONTROL	NO
DOOR STOPS	INTEGRATED WITH DOOR CLOSER
DOOR CLOSERS	YES
SIGNAGE	FIRE ESCAPE DOOR PLEASE KEEP CLEAR
SPECIAL	RAVEN RP60 ANODISED SATIN CLEAR WEATHER SEAL
FINISH	POWDERCOAT FRAME. COLOURSTEEL DOOR



RD01

SCALE 1 : 50

IMPORTANT NOTE:
MOTOR AND MANUAL CHAIN DRIVE MUST BE LOCATED OUTSIDE CLEAR OPENING OF RD DOOR. ALL MOTOR CONTROL WIRES TO BE NEATLY TIED TOGETHER OR HOUSED BEHIND STEEL COVER.

LOCATION	WAREHOUSE
SYSTEM	3 PHASE MOTORISED ROLLER SHUTTER
DOOR	
GLASS	
FRAME	
REVEAL	
ARCHITRAVE	
FIRE RATING	
INSULATION RATING	
SOUND RATING	
WALL TYPE	PRECAST CONCRETE
HINGES	
HANDLE	
LOCKS	PROPIETARY
ACCESS CONTROL	
DOOR STOPS	
DOOR CLOSERS	
SIGNAGE	
SPECIAL	CHAIN OPENING OVER-RIDE.
FINISH	HDG

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CHRISTCHURCH

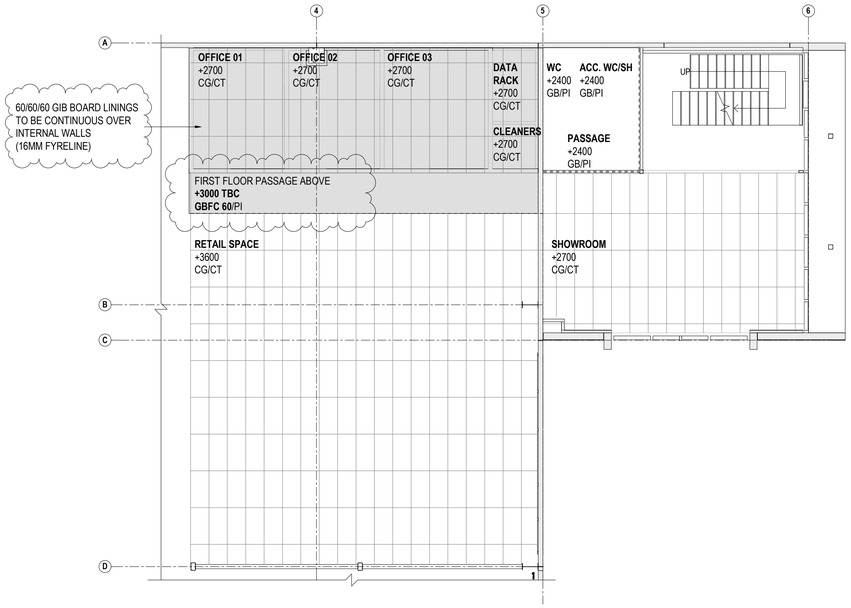
WINDOW & DOOR SCHEDULE

SCALE @ A1	1 : 50
DATE	04.10.2022
JOB No.	2154
DRAWN	NLC
CHECKED	RT
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REFLECTED GROUND FLOOR CEILING PLAN

SCALE 1 : 100

CEILING FINISHES SCHEDULE

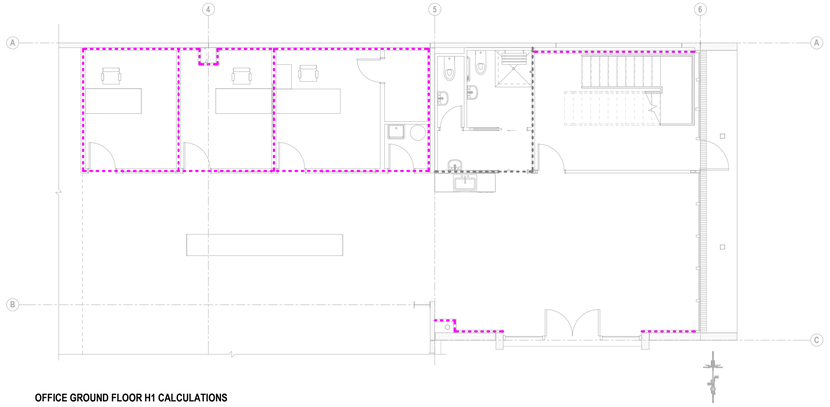
CG	TWO WAY EXPOSED GRID SUSPENDED CEILING SYSTEM - ARMSTRONG ULTIMA
CT	SELECTED CEILING TILE
GB	13MM STANDARD GIB BOARD
GBA	13MM AQUALINE GIB BOARD
GBF	19MM FYRELINE GIB BOARD
PE	EXTERIOR PAINT FINISH
PI	INTERIOR PAINT FINISH
SC	SUSPENDED CEILING SYSTEM - USG SCREWFIX SUSPENSION SYSTEM
TF	TIMBER FRAMING CEILING JOIST

SOFFIT CJ.
SOFFIT CONTROL JOINT TO JAMES HARDIE EAVES AND SOFFIT INSTALLATION MANUAL AUG 2017 - FIG 21. DOUBLE TIMBER BEARER EACH SIDE WITH 10-12MM CAVITY, STANDARD JH CONTROL BAR FIXED TO MANUFACTURERS INSTRUCTIONS AND PLASTER, PAINT FINISH OVER.

MECHANICAL VENTILATION & HEATING
REFER TO THE MECHANICAL ENGINEERS DRAWINGS AND SPECIFICATION FOR ALL MECHANICAL VENTILATION AND HEATING REQUIREMENTS.

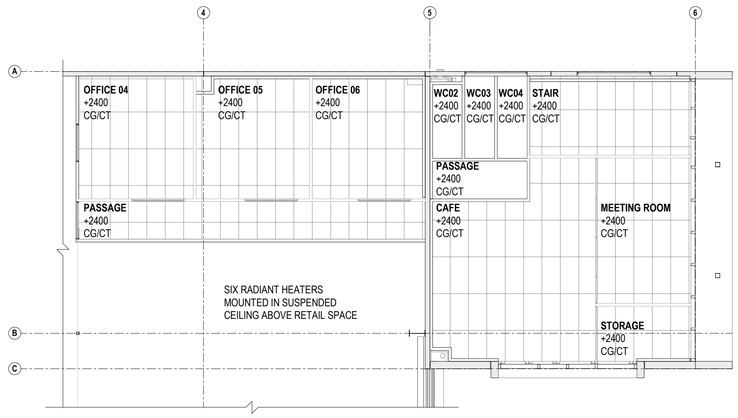
FIRE SAFETY
REFER TO THE FIRE REPORT AND ASSOCIATED DRAWINGS FOR ALL FIRE SAFETY REQUIREMENTS.

ELECTRICAL
REFER TO THE ELECTRICAL ENGINEERS DRAWINGS FOR ALL ELECTRICAL WORKS.



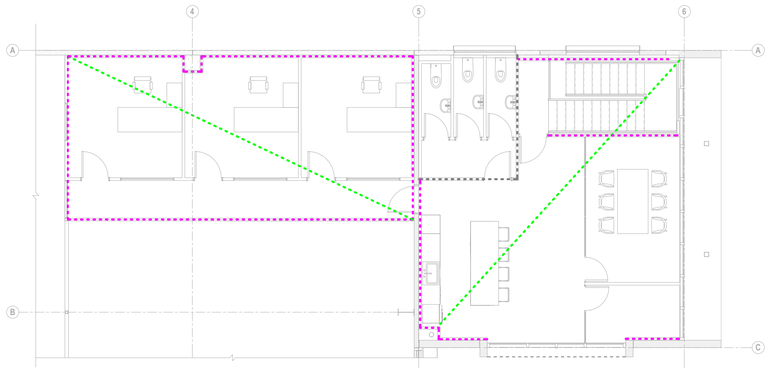
OFFICE GROUND FLOOR H1 CALCULATIONS

SCALE 1 : 100



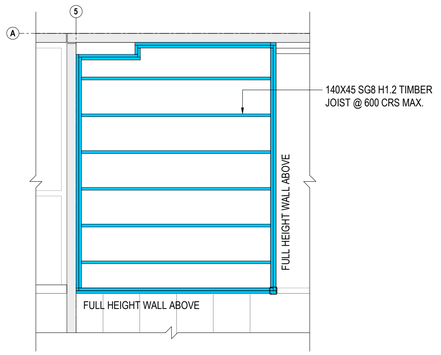
REFLECTED FIRST FLOOR CEILING PLAN

SCALE 1 : 100



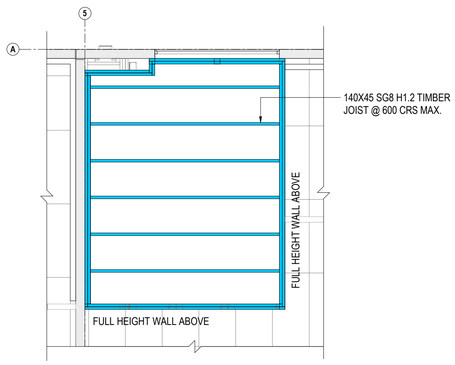
OFFICE FIRST FLOOR H1 CALCULATIONS

SCALE 1 : 100



CEILING FRAMING PLAN GROUND FLOOR

SCALE 1 : 50



CEILING FRAMING PLAN FIRST FLOOR

SCALE 1 : 50

GENERAL INSULATION NOTES:

ROOF	R3.2	PINK BATTS BIB
WALLS	R2.6	PINK BATTS WALL
WALLS	R1.9	75MM PINK BATTS SILENCER WALL
WALLS	R3.2	PINK BATTS WALL
WINDOW	R0.26	DOUBLE GLAZED

H1 R-VALUE CALCULATIONS:

BUILDING CLASSIFICATION	SMALL BUILDING ENVELOPE - NZS 4218
CLIMATE ZONE	ZONE 3
DESIGN FLEXIBILITY	N/A
AREA OF GLAZING	< 30%
EMBEDED HEATING	N/A
NZBC H1/AS1 REFERENCE	REPLACEMENT TABLE 1

MINIUMUM CONSTRUCTION R-VALUES (CALCULATION PURPOSES ONLY):

ROOF	R 3.3
WALL	R 2.0
FLOOR	R 1.3
GLAZING (DOUBLE)	R 0.26

CALCULATIONS OFFICE ONLY:

TOTAL FLOOR AREA:	145 M²
TOTAL ROOF AREA:	145 M²
WALL AREA (PRECAST + TIMBER, INC WINDOWS & DOORS)	286.86 M²
WALL AREA (TIMBER FRAMING, INC WINDOWS & DOORS)	106.15 M²
TOTAL WALL AREA	393.01 M²

WINDOWS & DOORS AREA:

GROUND AND FIRST FLOOR

WG01, DG10 (ON PRECAST PANEL)	67.3 M²
WG02, DG11 (ON PRECAST PANEL)	31.4 M²

FIRST FLOOR ONLY

WF09 (TIMBER FRAMED WALL)	3.5 M²
WF10 (ON PRECAST PANEL)	1.2 M²
WF11 (ON PRECAST PANEL)	1.4 M²

TOTAL (PRECAST PANEL)	101.3 M²
TOTAL (TIMBER FRAMED WALL)	3.5 M²

GLAZING TOTAL 104.8 M²

% GLAZING / WALL AREA		26.66%
WALL AREA	(PRECAST ONLY) 286.86 M² - 104.8 M² =	288.2 M²
WALL AREA	(TIMBER WALL) 106.15 M² - 3.5 M² =	102.65 M²

REFERENCE BUILDING

HL REFERENCE

Roof		Walls (Precast)		Walls (Timber)		Floor		Glazing	
145 / 3.3	+	288.2 / 2.0	+	102.6 / 2.0	+	145 / 1.3	+	104.8 / 0.26	

43.9 + 144.1 + 51.3 + 111.5 + 403.1 = **753.9**

HL PROPOSED

145 / 2.13	+	288.2 / 2.25	+	102.6 / 2.22	+	145 / 1.52	+	104.8 / 0.26	

68.07 + 128.08 + 46.21 + 95.3 + 403.1 = **740.73**

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ISSUED FOR CONSENT 13.09.2022
ADDITIONAL INFORMATION 04.10.2022

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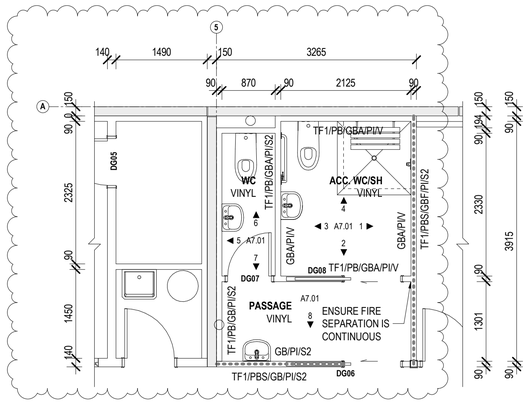
REFLECTED CEILING PLAN

SCALE @ A1	As indicated
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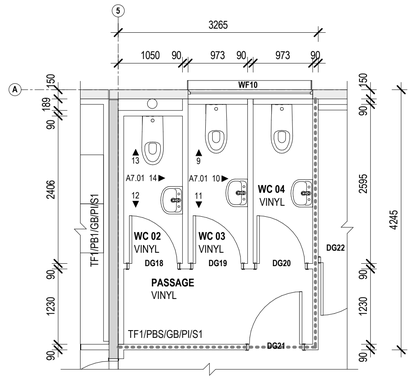
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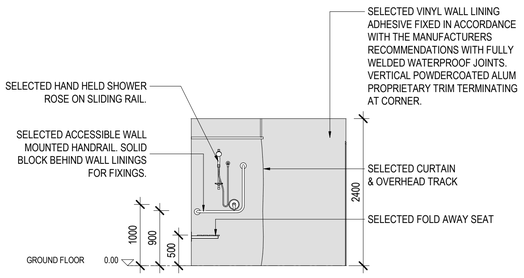


REFER TO GIB FIRE MANUAL REGARDING PLUMBING SERVICES CONTAINED WITHIN A FIRE RATED WALL.
REFER TO GFS 264 GIB FIRE RATED SYSTEMS

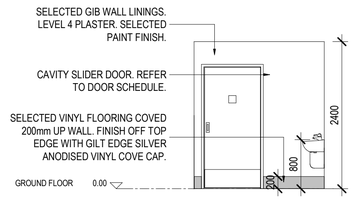
AMENITIES GROUND FLOOR
SCALE 1 : 50



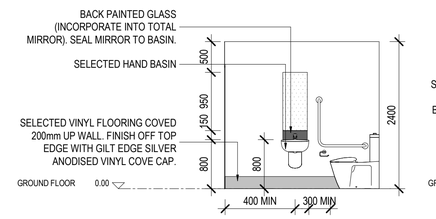
AMENITIES OFFICE FIRST FLOOR
SCALE 1 : 50



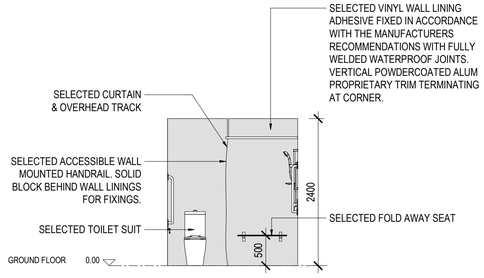
ELEVATION 1
SCALE 1 : 50



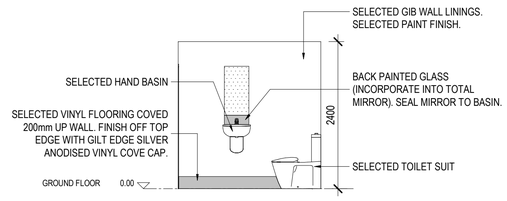
ELEVATION 2
SCALE 1 : 50



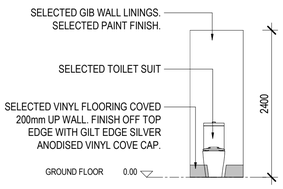
ELEVATION 3
SCALE 1 : 50



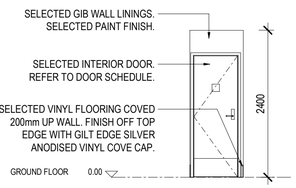
ELEVATION 4
SCALE 1 : 50



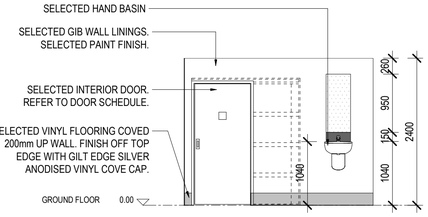
ELEVATION 5
SCALE 1 : 50



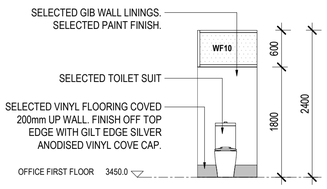
ELEVATION 6
SCALE 1 : 50



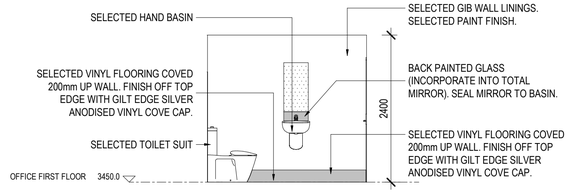
ELEVATION 7
SCALE 1 : 50



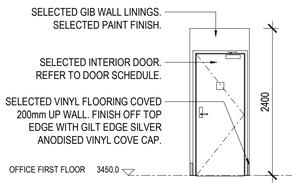
ELEVATION 8
SCALE 1 : 50



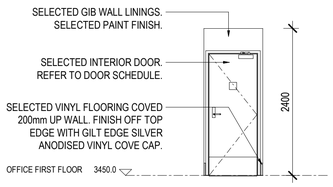
ELEVATION 9 **WC04 SIM**
SCALE 1 : 50



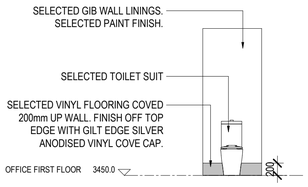
ELEVATION 10 **WC04 SIM**
SCALE 1 : 50



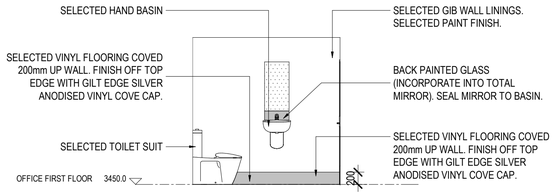
ELEVATION 11 **WC04 SIM**
SCALE 1 : 50



ELEVATION 12
SCALE 1 : 50



ELEVATION 13
SCALE 1 : 50



ELEVATION 14
SCALE 1 : 50

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INTERNAL ELEVATIONS

SCALE @ A1	1 : 50
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DRAWN	NLC
CHECKED	RT
STATUS	BUILDING CONSENT

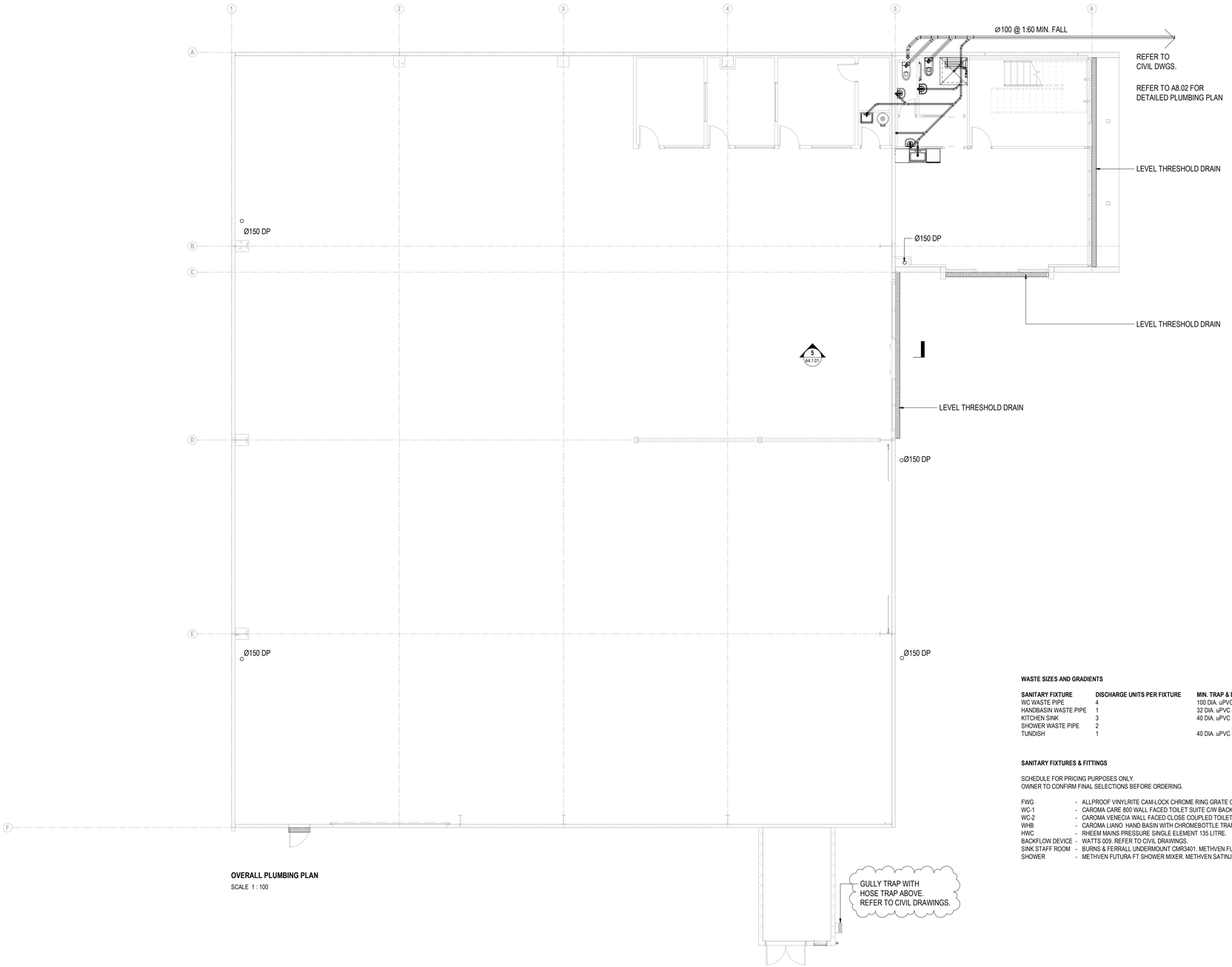
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OVERALL PLUMBING PLAN

SCALE 1 : 100

WASTE SIZES AND GRADIENTS

SANITARY FIXTURE	DISCHARGE UNITS PER FIXTURE	MIN. TRAP & DISCHARGE PIPE	MIN. GRADIENT
WC WASTE PIPE	4	100 DIA. uPVC	1 : 40
HANDBASIN WASTE PIPE	1	32 DIA. uPVC (ABOVE SLAB)	1 : 20
KITCHEN SINK	3	40 DIA. uPVC (ABOVE SLAB)	1 : 40
SHOWER WASTE PIPE	2		
TUNDISH	1	40 DIA. uPVC (ABOVE SLAB)	1 : 30

SANITARY FIXTURES & FITTINGS

SCHEDULE FOR PRICING PURPOSES ONLY.
OWNER TO CONFIRM FINAL SELECTIONS BEFORE ORDERING.

FWG	-	ALLPROOF VINYLRITE CAM-LOCK CHROME RING GRATE C/W FWG TRAP.
WC-1	-	CAROMA CARE 800 WALL FACED TOILET SUITE C/W BACK REST. (ACCESSIBLE WC)
WC-2	-	CAROMA VENECIA WALL FACED CLOSE COUPLED TOILET SUITE.
WHB	-	CAROMA LIANO HAND BASIN WITH CHROMEBOTTLE TRAP METHVEN FUTURA FT BASIN MIXER.
HWC	-	RHEEM MAINS PRESSURE SINGLE ELEMENT 135 LITRE.
BACKFLOW DEVICE	-	WATTS 009. REFER TO CIVIL DRAWINGS.
SINK STAFF ROOM	-	BURNS & FERRALL UNDERMOUNT CMR3401. METHVEN FUTURA SINK MIXER.
SHOWER	-	METHVEN FUTURA FT SHOWER MIXER. METHVEN SATINJET SLIDE RAIL SHOWER SET

SANITARY FIXTURES

DP	DOWNPIPE
HWC	HOT WATER CYLINDER (HIGH PRESSURE)
ORG	OVERFLOW RELIEF GULLY
S	KITCHEN SINK
SH	SHOWER
TD	TUNDISH
WHB	WASH HAND BASIN
WC	WATER CLOSET

DP - Ø150 UPVC SEALED CONNECTION AT SLAB LEVEL WITH UPVC RADIUS BEND. PROVIDE INSPECTION POINT 200MM ABOVE GROUND FFL. PAINT DP WITH SELECTED COLOUR.

IMPORTANT
ALL NEW HOT & COLD WATER RETICULATION TO SANITARY FIXTURES TO BE POLYBUTENE-1.

ALL INTERNAL DRAINAGE TO COMPLY WITH AS/NZS3500.2 2015.

RESTRAIN HWC WITH 25 x 1MM GALVANISED STEEL STRAPS TENSIONED WHEN FIXED IN PLACE. FIX STRAPS TO VERTICAL TIMBER BATTENS WITH 8MM COACH SCREWS AND 30 x 2MM THICK WASHERS. SCREWS TO PENETRATE TIMBER FRAMING MIN 50MM. STRAPS TO BE LOCATED MAX OF 100MM FROM TOP OF CYLINDER AND ADDITIONAL CENTRAL STRAP AT MID POINT.

THE DELIVERED HOT WATER TEMPERATURE TO ALL SANITARY FIXTURES MUST NOT EXCEED **55** DEGREES. PROVIDE TEMPERING VALVE INSTALLATION FROM HOT WATER CYLINDER WHERE WATER IS TO BE STORED AT A TEMPERATURE OF NOT LESS THAN **60** DEGREES TO PREVENT GROWTH OF LEGIONELLA BACTERIA IN ACCORDANCE WITH NZBC G12 FIGURE 8

ACCESSIBLE SHOWER HEAD AND HOSE TO BE INSTALLED AT THE HEIGHT WHERE SHOWER HEAD MUST NOT HIT FLOOR IN CASE OF DROPPING

ALL WASTE PIPES CAST INTO FLOOR SLAB TO BE MINIMUM 65MM DIAMETER.

ENSURE SPILL LEVEL OF ORG IS 150MM MIN. BELOW FLOOR LEVEL AND 75MM MIN. ABOVE GROUND LEVEL.

REFER TO **????** FOR ANY SITE CIVIL & DRAINAGE WORK BEYOND BUILDING FOOTPRINT.

FIRE SEAL ALL PENETRATIONS THROUGH FLOOR & WALLS IN ACCORDANCE WITH FIRE REPORT.

NORTH

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PLUMBING & DRAINAGE PLAN

SCALE @ A1	As indicated
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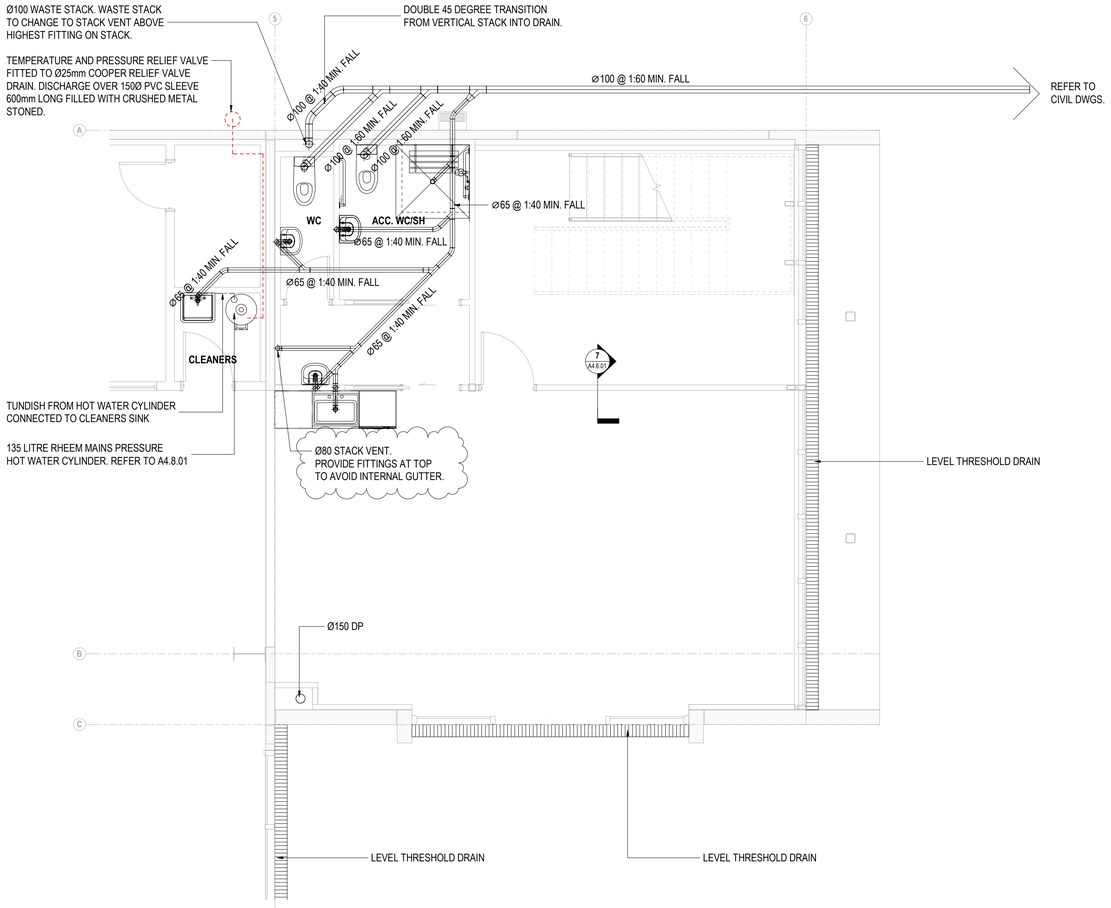
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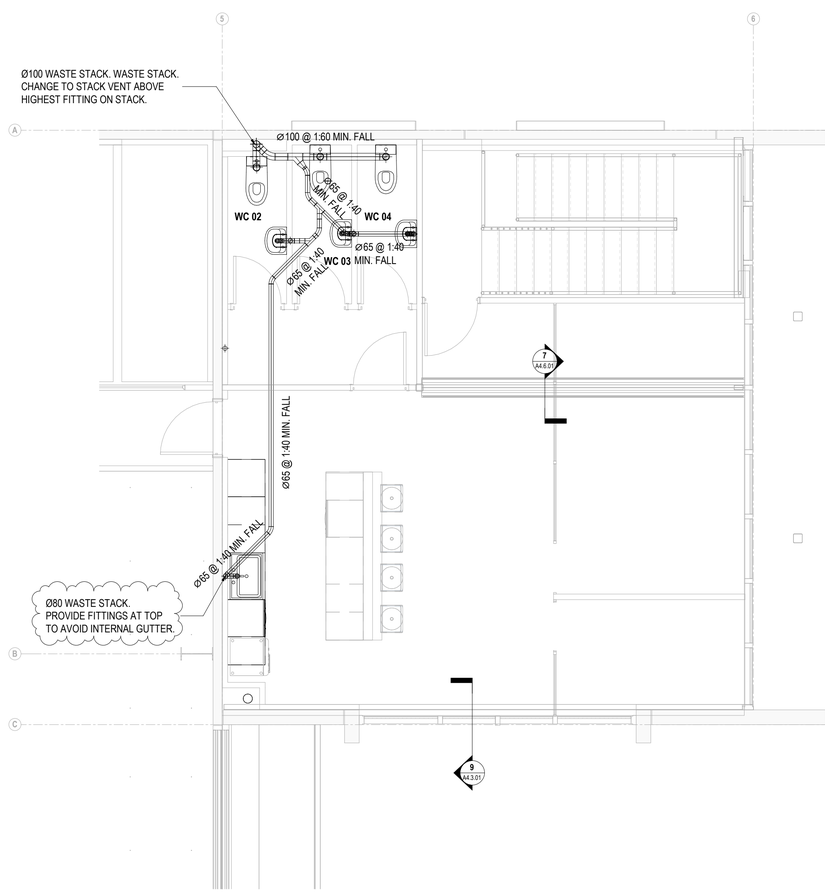
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PLUMBING PLAN GROUND FLOOR
SCALE 1 : 50



PLUMBING PLAN FIRST FLOOR
SCALE 1 : 50

WASTE SIZES AND GRADIENTS

SANITARY FIXTURE	DISCHARGE UNITS PER FIXTURE	MIN. TRAP & DISCHARGE PIPE	MIN. GRADIENT
WC WASTE PIPE	4	100 DIA. uPVC	1 : 40
HANDBASIN WASTE PIPE	1	32 DIA. uPVC (ABOVE SLAB)	1 : 20
KITCHEN SINK	3	40 DIA. uPVC (ABOVE SLAB)	1 : 40
SHOWER WASTE PIPE	2		
TUNDISH	1	40 DIA. uPVC (ABOVE SLAB)	1 : 30

SANITARY FIXTURES & FITTINGS

SCHEDULE FOR PRICING PURPOSES ONLY.
OWNER TO CONFIRM FINAL SELECTIONS BEFORE ORDERING.

FWG	-	ALLPROOF VINYLRITE CAM-LOCK CHROME RING GRATE C/W FWG TRAP.
WC-1	-	CAROMA CARE 800 WALL FACED TOILET SUITE C/W BACK REST. (ACCESSIBLE WC)
WC-2	-	CAROMA VENECIA WALL FACED CLOSE COUPLED TOILET SUITE.
WHB	-	CAROMA LIANO HAND BASIN WITH CHROMEBOTTLE TRAP METHVEN FUTURA FT BASIN MIXER.
HWC	-	RHEEM MAINS PRESSURE SINGLE ELEMENT 135 LITRE.
BACKFLOW DEVICE	-	WATTS 009. REFER TO CIVIL DRAWINGS.
SINK STAFF ROOM	-	BURNS & FERRALL UNDERMOUNT CMR3401. METHVEN FUTURA SINK MIXER.
SHOWER	-	METHVEN FUTURA FT SHOWER MIXER. METHVEN SATINJET SLIDE RAIL SHOWER SET

SANITARY FIXTURES

DP	DOWNPIPE
HWC	HOT WATER CYLINDER (HIGH PRESSURE)
ORG	OVERFLOW RELIEF GULLY
S	KITCHEN SINK
SH	SHOWER
TD	TUNDISH
WHB	WASH HAND BASIN
WC	WATER CLOSET

DP - Ø150 UPVC SEALED CONNECTION AT SLAB LEVEL WITH UPVC RADIUS BEND. PROVIDE INSPECTION POINT 200MM ABOVE GROUND FFL. PAINT DP WITH SELECTED COLOUR.

IMPORTANT
ALL NEW HOT & COLD WATER RETICULATION TO SANITARY FIXTURES TO BE POLYBUTENE-1.

ALL INTERNAL DRAINAGE TO COMPLY WITH AS/NZS3500.2 2015.

RESTRAIN HWC WITH 25 x 1MM GALVANISED STEEL STRAPS TENSIONED WHEN FIXED IN PLACE. FIX STRAPS TO VERTICAL TIMBER BATTENS WITH 8MM COACH SCREWS AND 30 x 2MM THICK WASHERS. SCREWS TO PENETRATE TIMBER FRAMING MIN 50MM. STRAPS TO BE LOCATED MAX OF 100MM FROM TOP OF CYLINDER AND ADDITIONAL CENTRAL STRAP AT MID POINT.

THE DELIVERED HOT WATER TEMPERATURE TO ALL SANITARY FIXTURES MUST NOT EXCEED **55** DEGREES. PROVIDE TEMPERING VALVE INSTALLATION FROM HOT WATER CYLINDER WHERE WATER IS TO BE STORED AT A TEMPERATURE OF NOT LESS THAN **60** DEGREES TO PREVENT GROWTH OF LEGIONELLA BACTERIA IN ACCORDANCE WITH NZBC G12 FIGURE 8

ACCESSIBLE SHOWER HEAD AND HOSE TO BE INSTALLED AT THE HEIGHT WHERE SHOWER HEAD MUST NOT HIT FLOOR IN CASE OF DROPPING

ALL WASTE PIPES CAST INTO FLOOR SLAB TO BE MINIMUM 65MM DIAMETER.

ENSURE SPILL LEVEL OF ORG IS 150MM MIN. BELOW FLOOR LEVEL AND 75MM MIN. ABOVE GROUND LEVEL.

REFER TO **????** FOR ANY SITE CIVIL & DRAINAGE WORK BEYOND BUILDING FOOTPRINT.

FIRE SEAL ALL PENETRATIONS THROUGH FLOOR & WALLS IN ACCORDANCE WITH FIRE REPORT.

NORTH

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LOT 6/61 BELFAST ROAD
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PLUMBING & DRAINAGE PLAN (DETAILED)

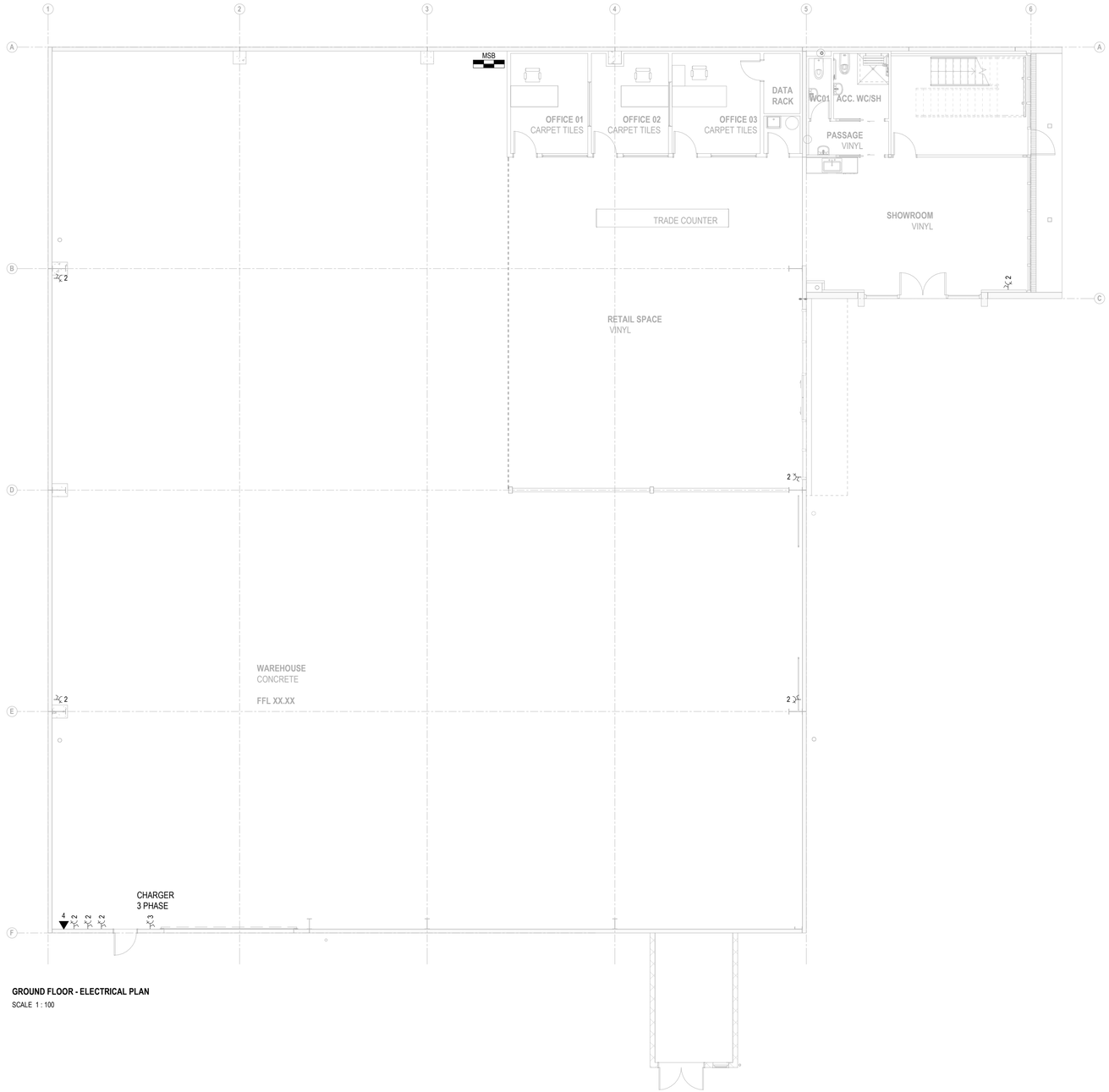
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JOB No.	2154
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GROUND FLOOR - ELECTRICAL PLAN
SCALE 1 : 100

ELECTRICAL SCHEDULE

3	CHARGER 3 PHASE
2	DOUBLE POWER OUTLET
2	DUAL DATA OUTLET
4	QUAD DATA OUTLET
MSB	MAIN SWITCHBOARD

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LOT 6/61 BELFAST ROAD
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OVERALL ELECTRICAL PLAN

SCALE @ A1	1 : 100
DATE	11.08.2022
JOB No.	2154
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CHECKED	RT
STATUS	BUILDING CONSENT

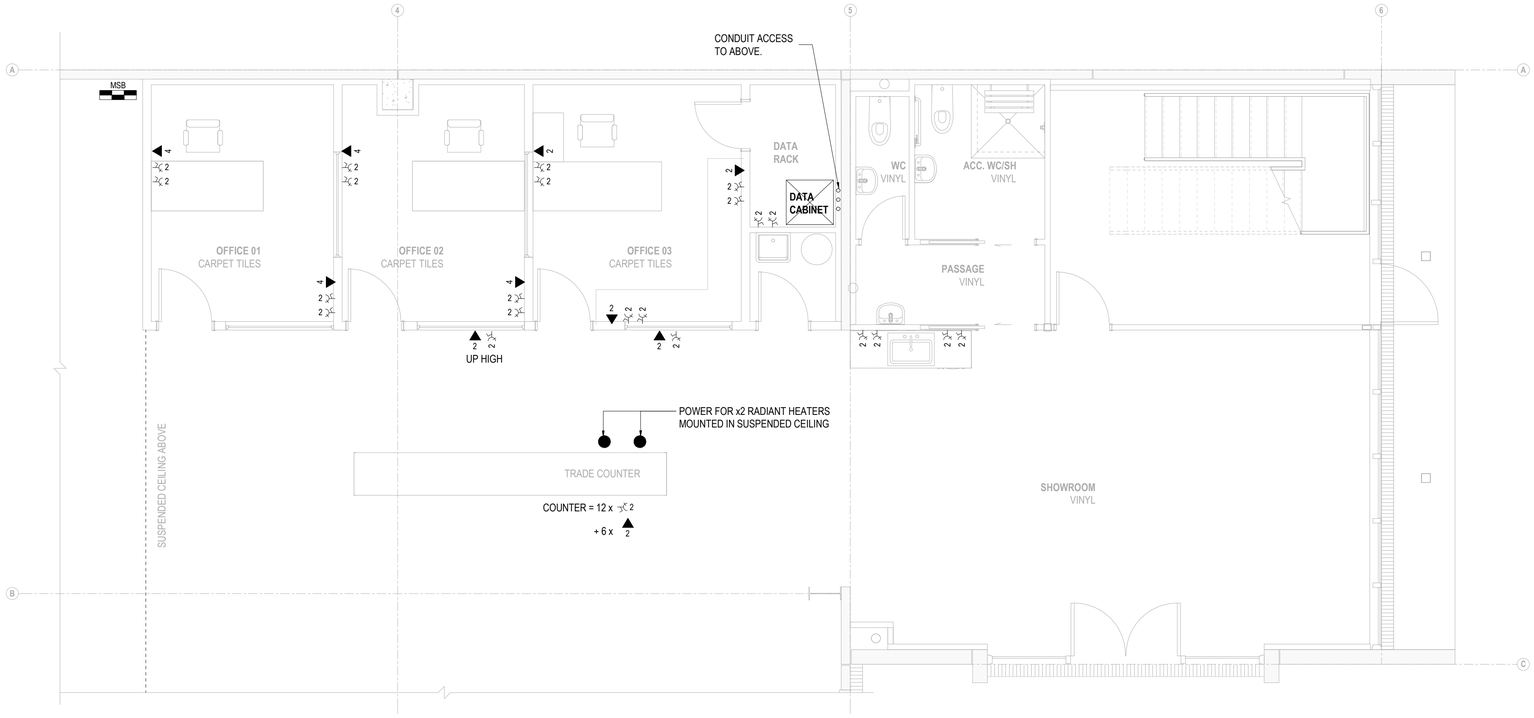
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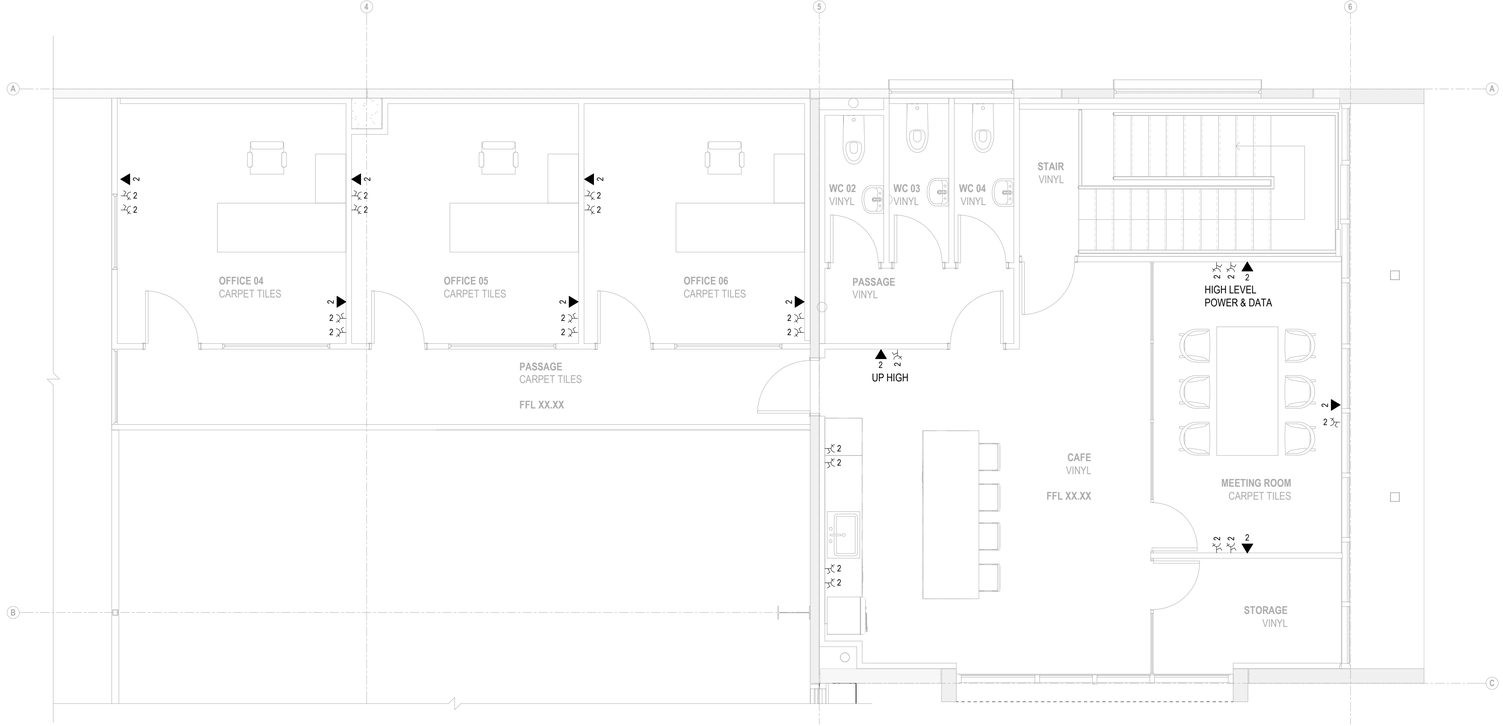
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OFFICE GROUND FLOOR - ELECTRICAL PLAN

SCALE 1 : 50



OFFICE FIRST FLOOR - ELECTRICAL PLAN

SCALE 1 : 50

ELECTRICAL SCHEDULE

3	CHARGER 3 PHASE
2	DOUBLE POWER OUTLET
2	DUAL DATA OUTLET
4	QUAD DATA OUTLET
MSB	MAIN SWITCHBOARD

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OFFICE ELECTRICAL PLAN

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STATUS	BUILDING CONSENT

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Drawing Register

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Project: Lot 6 - Belfast Road

File No: E1823

Date of Issue:				
Day	31	15	29	28
Month	03	15	06	07
Year	22	22	22	22

Dwg No.	Drawing Title	Drawing Revision				
S1-01	Foundation Plan	2	A	1	1	2
S1-02	Slab Plan	2	A	1	1	2
S1-03	Foundation Details	1	-	1	1	1
S1-04	Foundation Details	1	-	1	1	1
S1-05	Slab Edge Details	1	-	1	1	1
S1-06	Slab Edge Details	1	A	1	1	1
S1-07	Slab Edge Details	1	A	1	1	1
S2-01	Panel Location Plan	1	A	1	1	1
S2-02	Panel Connection Details	1	A	1	1	1
S2-03	Wall Elevations on Grids A & F	1	A	1	1	1
S2-04	Wall Elevations on Grids 1 & 5	1	A	1	1	1
S2-05	Wall Elevation on Grid C	1	A	1	1	1
S2-06	Blockwork Sprinkler Valve Room	2	-	-	1	2
S3-01	Fixings	1	A	1	1	1
S4-01	Precast Concrete Panels 1 & 2	1	A	1	1	1
S4-02	Precast Concrete Panels 3 - 8	1	A	1	1	1
S4-03	Precast Concrete Panels 9 - 11	1	A	1	1	1
S4-04	Precast Concrete Panels 12 - 14	1	A	1	1	1
S4-05	Precast Concrete Panels 15 & 16	1	A	1	1	1
S4-06	Precast Concrete Panels 17 & 18	1	A	1	1	1
S4-07	Precast Concrete Panels 19 & 20	1	A	1	1	1
S4-08	Precast Concrete Panel 21	1	A	1	1	1
S4-09	Precast Concrete Window Frame Columns	1	A	1	1	1
S4-10	Precast Concrete Roof Panel	1	A	1	1	1
S5-01	Suspended Floor Plan	1	A	1	1	1
S5-02	Suspended Floor Details	1	A	1	1	1
S6-01	Concrete Stair	1	A	1	1	1
S7-01	Steelwork Location Plan	1	A	1	1	1
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Year	22	22	22	22

Dwg No.	Drawing Title	Drawing Revision				
S7-02	Steelwork Details	1	A	1	1	1
S7-03	Purlin Plan	1	A	1	1	1
S7-04	Steelwork Frame on Grid B	1	A	1	1	1
S7-05	Steelwork Frame on Grid D	1	A	1	1	1
S7-06	Steelwork Frame on Grid E	1	A	1	1	1
S7-07	Steelwork Frame on Grid F	1	A	1	1	1
S7-08	Steelwork Frame on Grid 5	1	A	1	1	1
S7-09	Steelwork Floor Frame	1	A	1	1	1
S7-10	Steelwork - Office Facade	1	A	1	1	1
S7-11	Steelwork - Office Facade	1	A	1	1	1
S7-12	Steelwork - Canopy	1	A	1	1	1
S8-01	Timber Framing Plans	1	-	-	1	1
C-01	Civil Surface Levels	1	-	-	-	1
C-02	Civil Drainage	1	-	-	-	1
C-03	Civil Parking Layout And Dimensions	1	-	-	-	1
C-04	Civil Details	1	-	-	-	1
C-05	Civil Details	1	-	-	-	1
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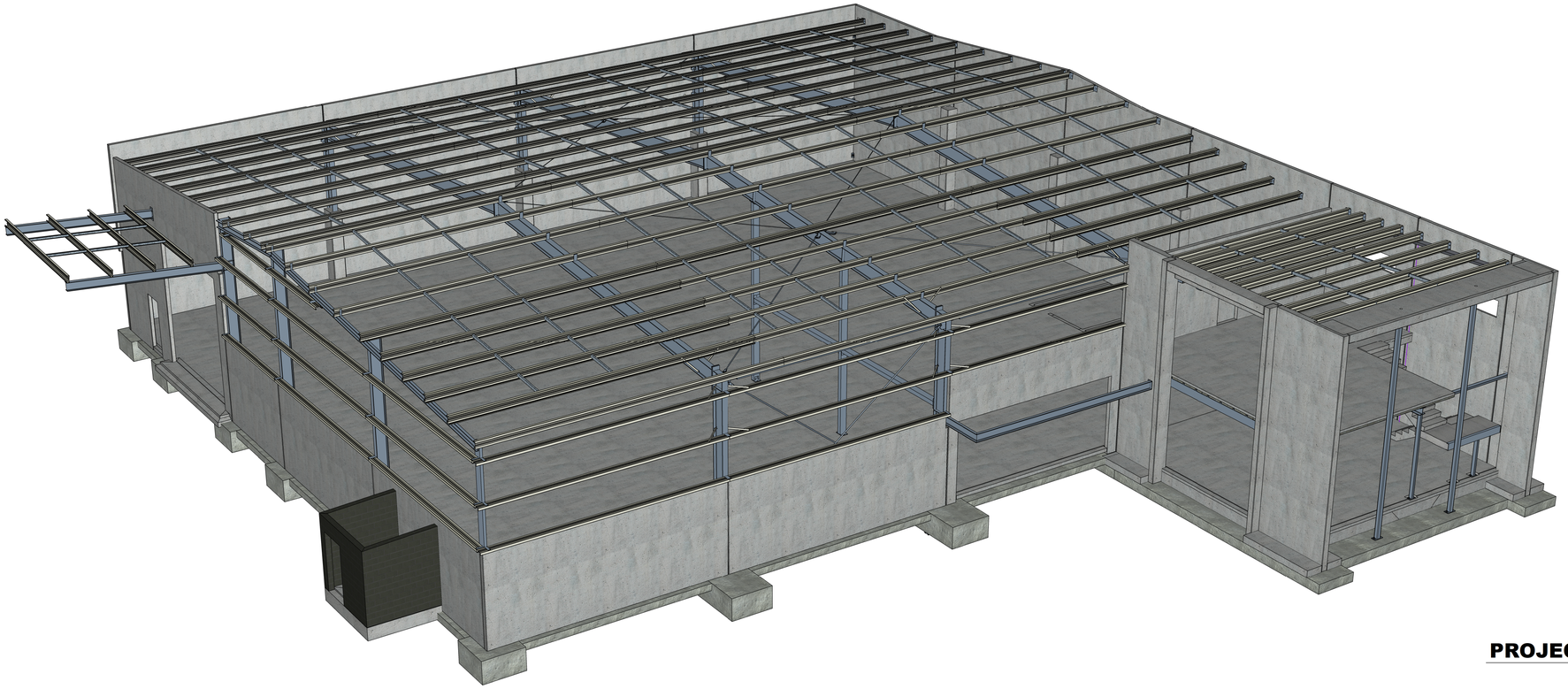
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STRUCTURAL DRAWINGS
CONSENT ISSUE

25-05-2022

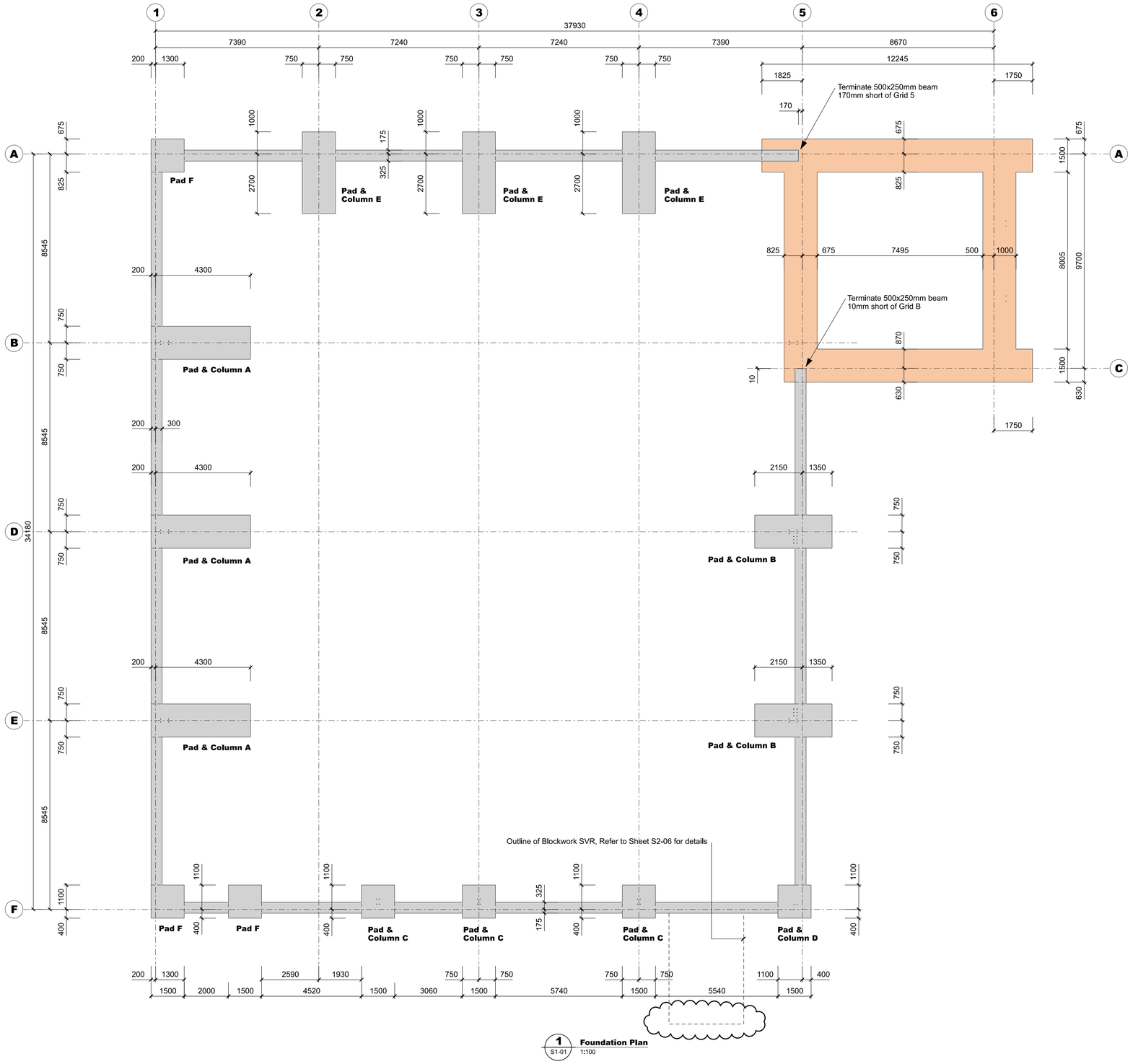
LOT 6 BELFAST ROAD
BELFAST - CHRISTCHURCH

PROJECT DRAWING LIST

S1-01	Foundation Plan
S1-02	Slab Plan
S1-03	Foundation Details
S1-04	Foundation Details
S1-05	Slab Edge Details
S1-06	Slab Edge Details
S1-07	Slab Edge Details
S2-01	Panel Location Plan
S2-02	Panel Connection Details
S2-03	Wall Elevations on Grids A & F
S2-04	Wall Elevations on Grids 1 & 5
S2-05	Wall Elevation on Grid C
S2-06	Blockwork SVR
S3-01	Fixings
S4-01	Precast Concrete Panels 1 & 2
S4-02	Precast Concrete Panels 3 - 8
S4-03	Precast Concrete Panels 9 - 11
S4-04	Precast Concrete Panels 12 - 14
S4-05	Precast Concrete Panels 15 & 16
S4-06	Precast Concrete Panels 17 & 18
S4-07	Precast Concrete Panels 19 & 20
S4-08	Precast Concrete Panel 21
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S5-01	Suspended Floor Plan
S5-02	Suspended Floor Details
S6-01	Concrete Stair
S7-01	Steelwork Location Plan
S7-02	Steelwork Details
S7-03	Purlin Plan
S7-04	Steelwork Frame on Grid B
S7-05	Steelwork Frame on Grid D
S7-06	Steelwork Frame on Grid E
S7-07	Steelwork Frame on Grid F
S7-08	Steelwork Frame on Grid 5
S7-09	Steelwork Floor Frame
S7-10	Steelwork - Office Facade
S7-11	Steelwork - Office Facade
S7-12	Steelwork - Canopy
S8-01	Timber Framing Plans

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1 S1-01 **Foundation Plan**
1:100

NOTES

Contractor to verify all dimensions on site BEFORE commencing works.

Contractor to determine positions of all building services i.e. sewer, stormwater, power, telecommunications etc., BEFORE pouring foundations.

Refer to Architectural drawings for all nibs, holes, rebates etc.

Refer to Specification for concrete strengths.

Allow to build drainage into foundations.

Carry all foundations to solid bearing.

Pour all foundations against natural undisturbed ground.
All topsoil & uncontrolled fill to be removed from below foundations.
Build up with granular material as required to achieve specified foundation depths. Back filling to be in accordance with section 2.0 of the Structural Specification.

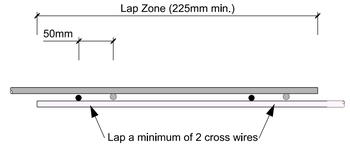
This drawing is to be read in conjunction with the specification.

All reinforcing to be continuous around corners.

Minimum covers for foundation beam reinforcing are:
- 75mm - when concrete is in contact with the ground.
- 50mm - when concrete is poured over DPM.

Reinforce the Warehouse Ground Floor Slab throughout with Seismic Grade SE82 mesh & SE72 mesh in the Office Slab. Cut every fourth bar crossing shrinkage control joints.

Minimum lap for mesh shall be a minimum of 2-cross wires, but not less than 225mm. DO NOT coincide laps with shrinkage control joints.



Tolerances for Dowels & Hold-down Rods Refer to NZS 3109:1997 for:

The position of individual Dowels & hold-down Rods or bolts within any group shall have a tolerance of ±3mm.

The longitudinal location of any group of Dowels, hold-down rods or bolts shall have a tolerance of ± 12mm.

Bearings between panels and postholes shall be one of the following types in accordance with the specification.

Type 1 Bearing
6mm Hardboard bearing under panel of minimum size 100mm wide x150mm long, on either a matching pair of greased steel shims or approved proprietary plastic shims. DO NOT use oil tempered hardboard.

Type 2 Bearing
Mortar pack fully between panel base and posthole after the panel is erected. DO NOT provide seating shims.

Type 3 Bearing
Greased steel or plastic shims between panel and posthole. Mortar pack fully as late as possible in Construction.

PAD F

1500x1500x800mm deep concrete pad
Reinforced with H20 at 300, each way (top & Bottom)
Extend to solid bearing
Pour against natural undisturbed ground.
Top 270mm below Floor Level. Type 1 bearing.

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PROJECT: DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
2	27-07-2022	GC	SPRINKLER VALVE ROOM SIZE AMENDED
1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

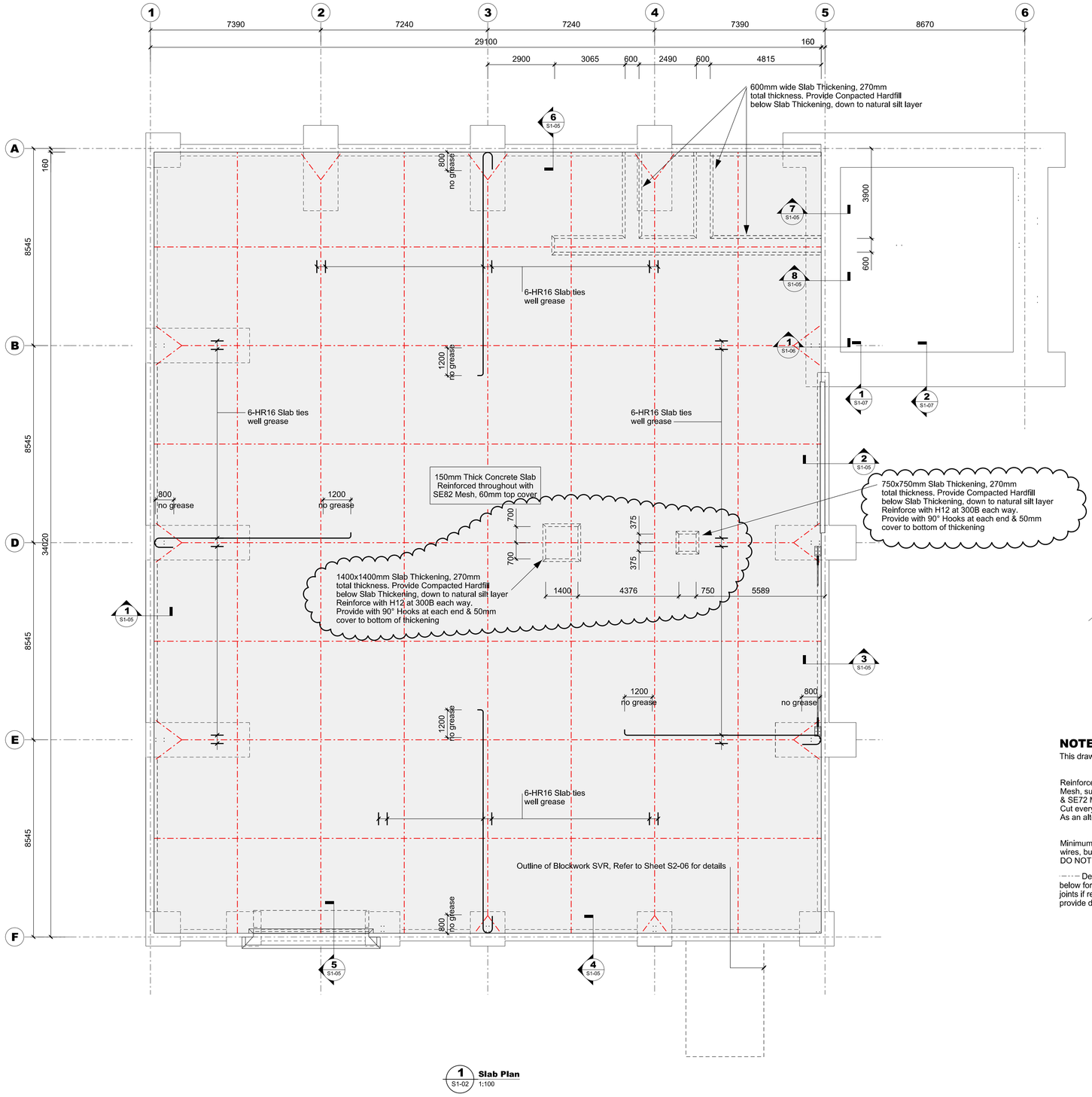
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DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: FOUNDATION PLAN

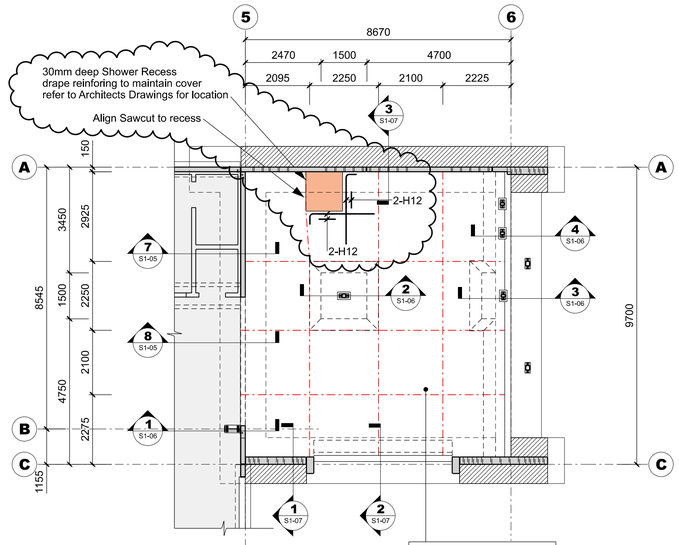
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1 S1-02 Slab Plan 1:100



2 S1-02 Office Slab Plan 1:100

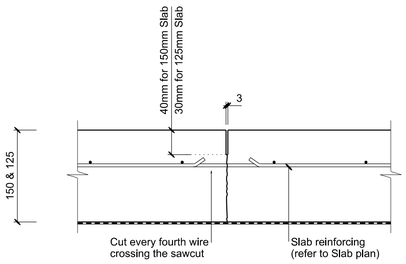
NOTES:

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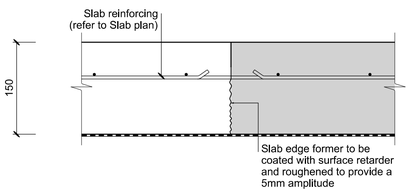
Reinforce the Ground Floor Slab throughout with Seismic Grade Mesh, such as SE82 Mesh, 50 top cover for 150mm thick slab & SE72 Mesh, 40mm top cover for 125mm thick slab
Cut every fourth bar crossing shrinkage control joints.
As an alternative the contractor may supply and install

Minimum lap for Mesh shall be a minimum of 2-cross wires, but no less than 225mm.
DO NOT coincide laps with shinkage control joints.

- - - - Denotes sawcut or formed joints in slab. Refer to details below for sawcut and joint details. Install a temporary filler to cut joints if required for precast concrete construction and remove to provide detailed filler at job completion.



TYPICAL SAWCUT JOINT



TYPICAL CONSTRUCTION JOINT

Refer to Sheet S1-01 for Notes

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PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
3	08-09-2022	GC	SHOWER RECESS ADDED & SLAB THICKENING AMENDED
2	28-07-2022	GC	SPRINKLER VALVE ROOM SIZE AMENDED
1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

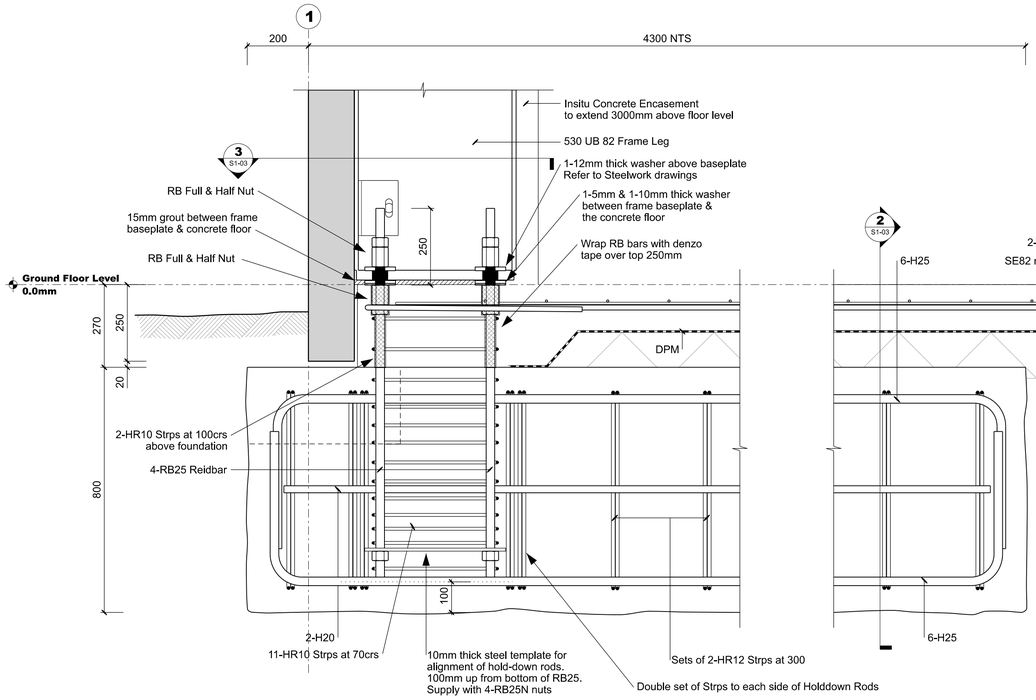
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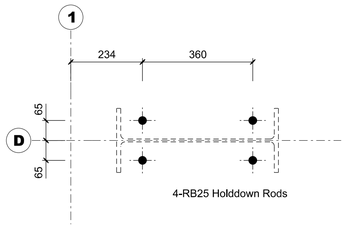
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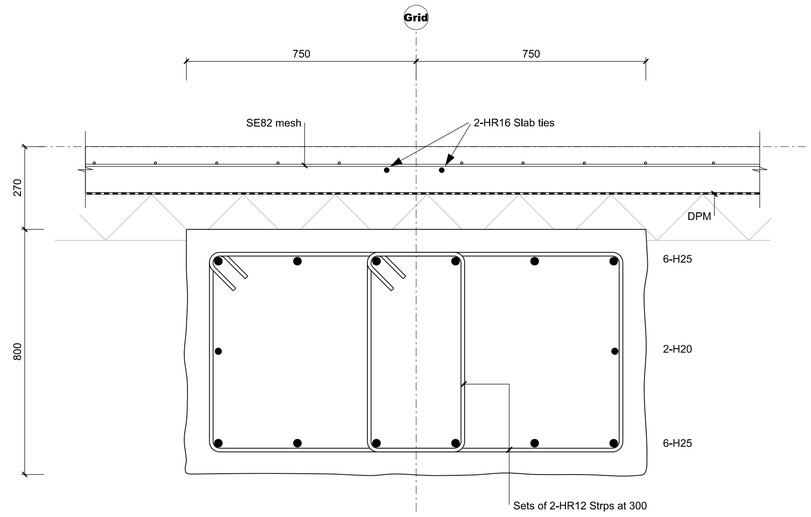
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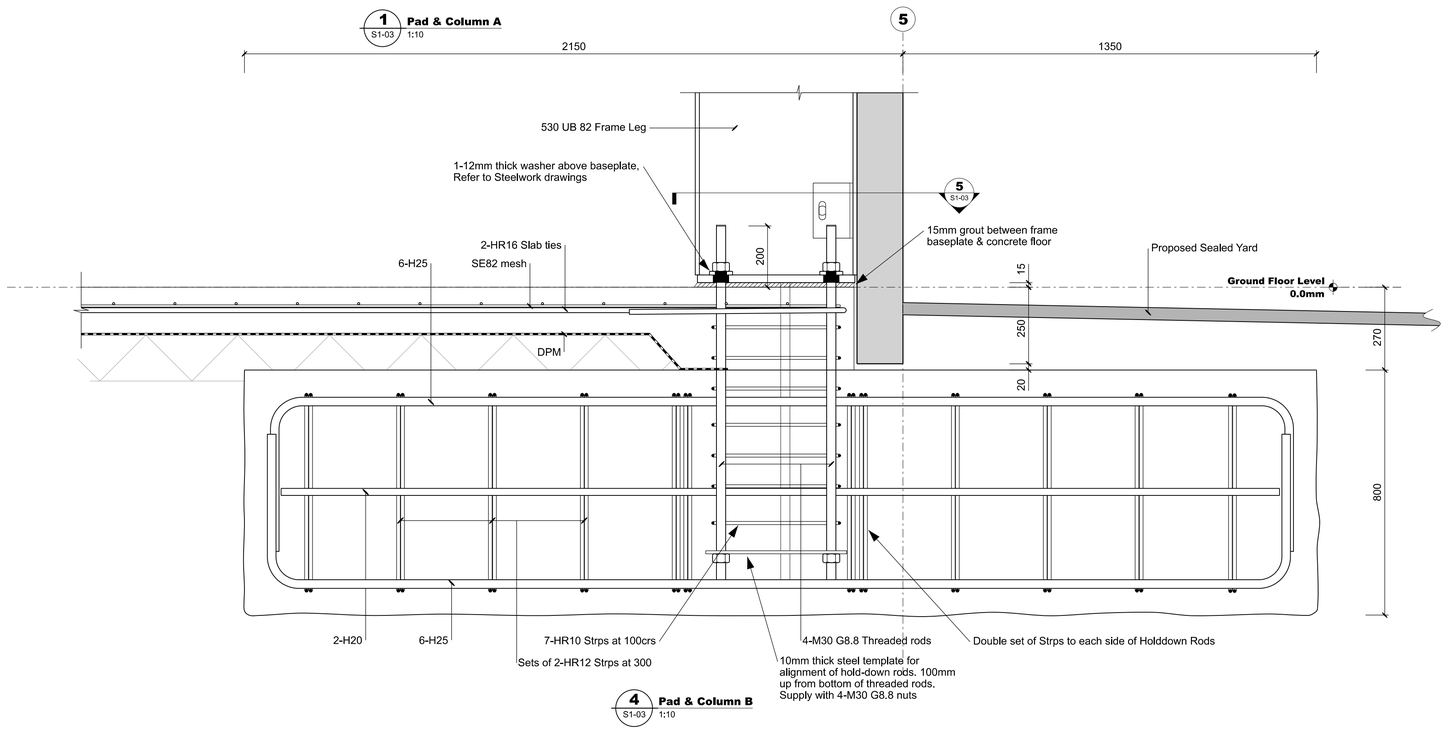
1 Pad & Column A S1-03 1:10



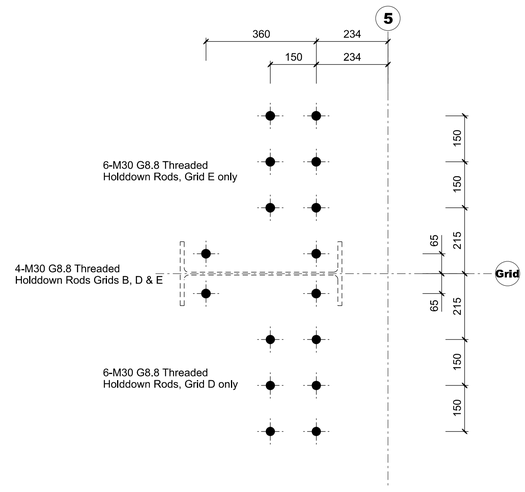
3 Pad & Column A - Holddown Rods S1-03 1:10



2 Pad & Column A - Cross Section S1-03 1:10



4 Pad & Column B S1-03 1:10



5 Pad & Column B - Holddown Rods S1-03 1:10

Refer to Sheet S1-01 for Notes

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PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

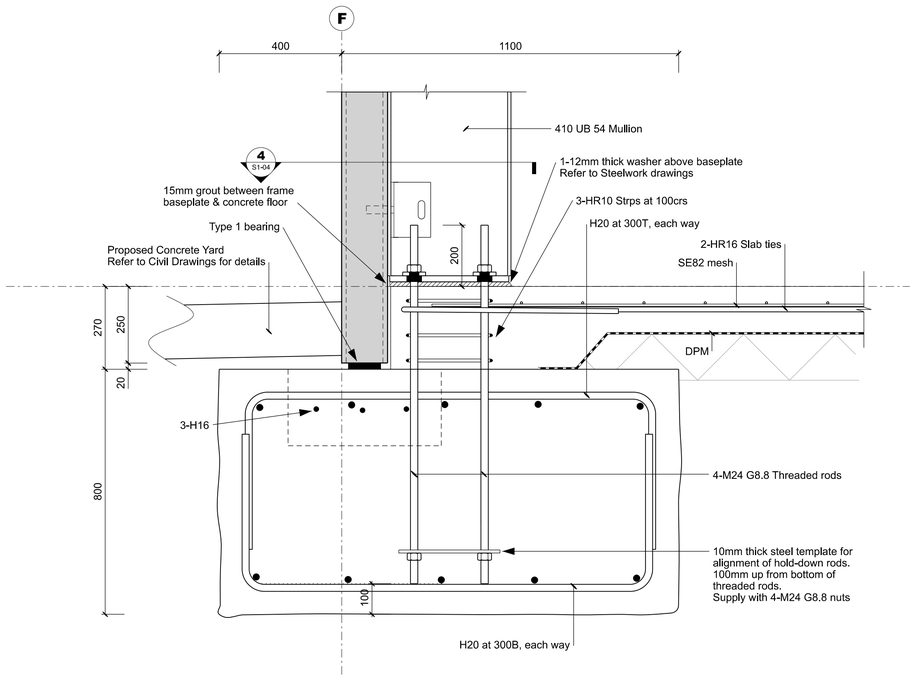
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DES. CHECK:	GC	25-05-2022
DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: FOUNDATION DETAILS

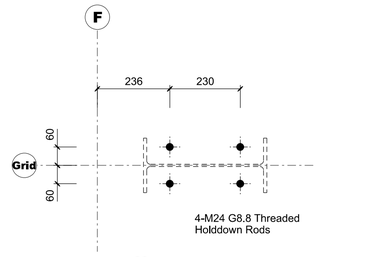
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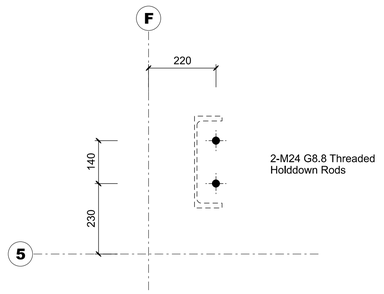
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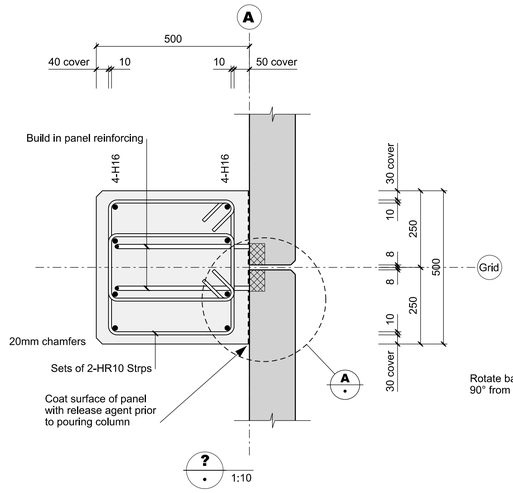
1 Pad & Column C S1-04 1:10

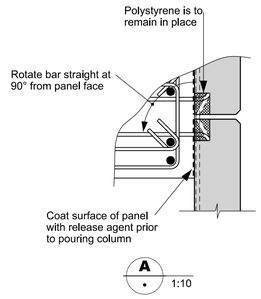


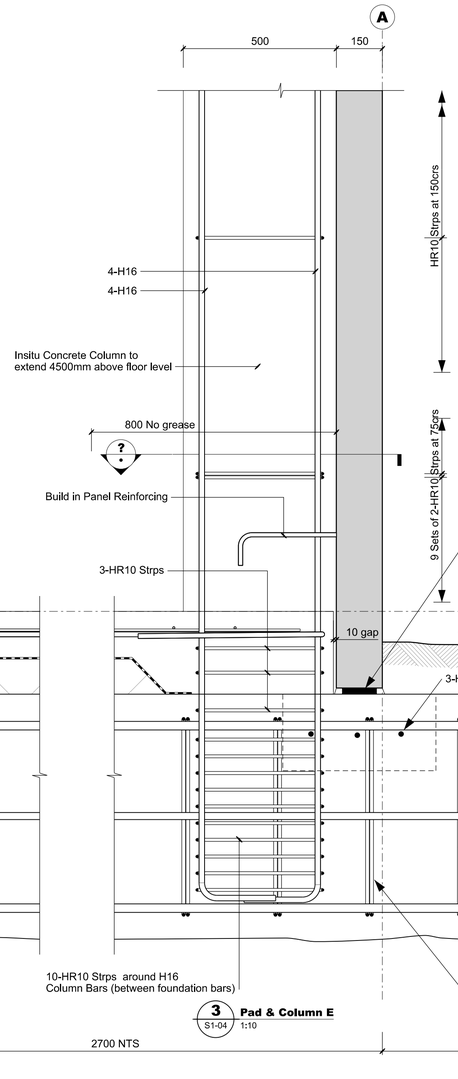
4 Pad & Column C - Holddown Rods S1-04 1:10



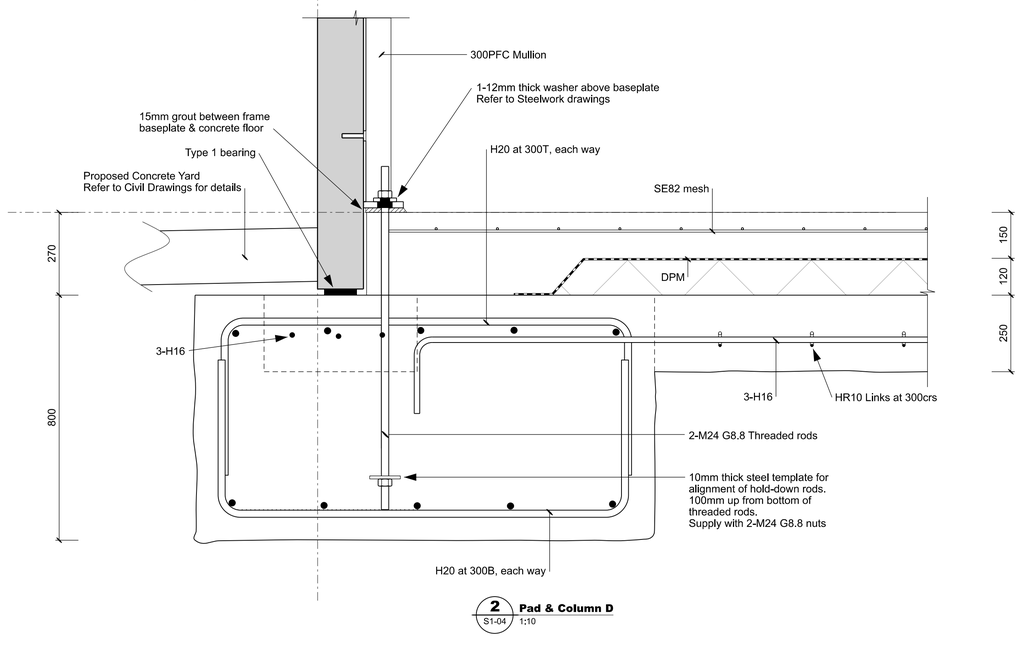
5 Pad & Column D - Holddown Rods S1-04 1:10







3 Pad & Column E S1-04 1:10



2 Pad & Column D S1-04 1:10

Refer to Sheet S1-01 for Notes

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PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

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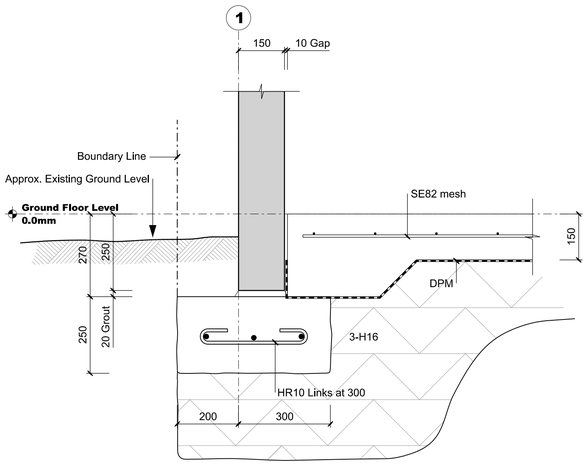
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DRAWING TITLE: SLAB EDGE DETAILS

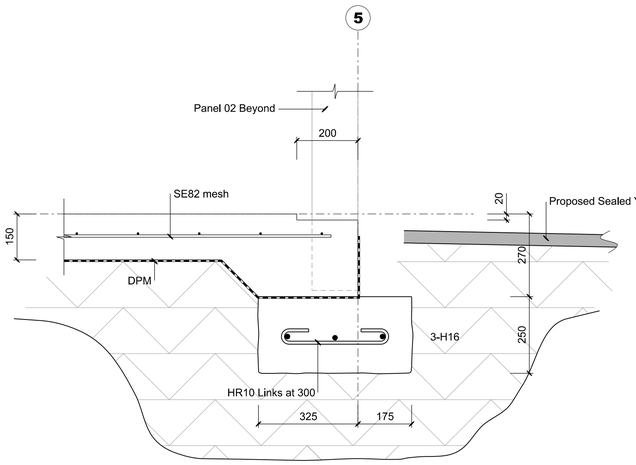
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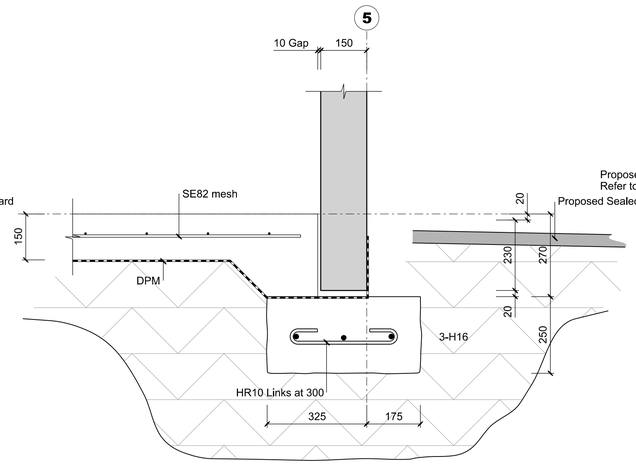
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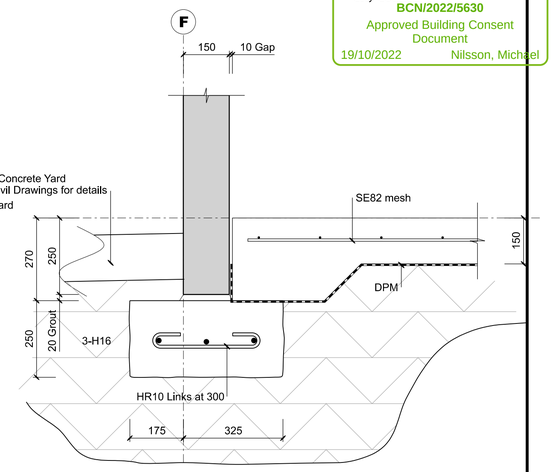
1 Slab Edge Detail 01 S1-02 1:10



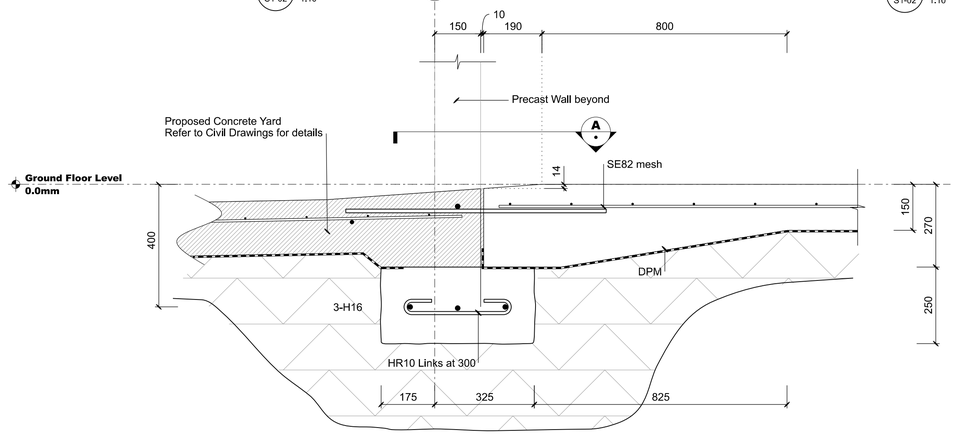
2 Slab Edge Detail 02 S1-02 1:10



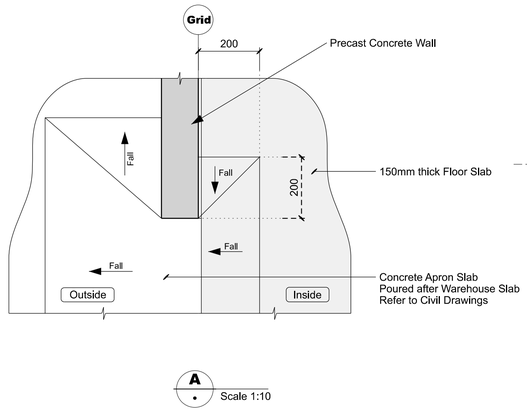
3 Slab Edge Detail 03 S1-02 1:10



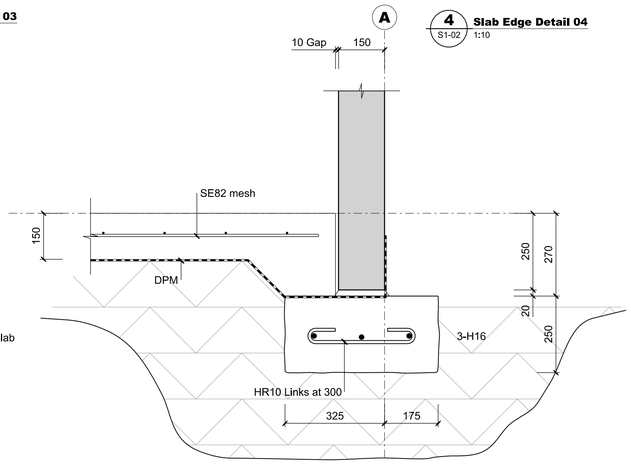
4 Slab Edge Detail 04 S1-02 1:10



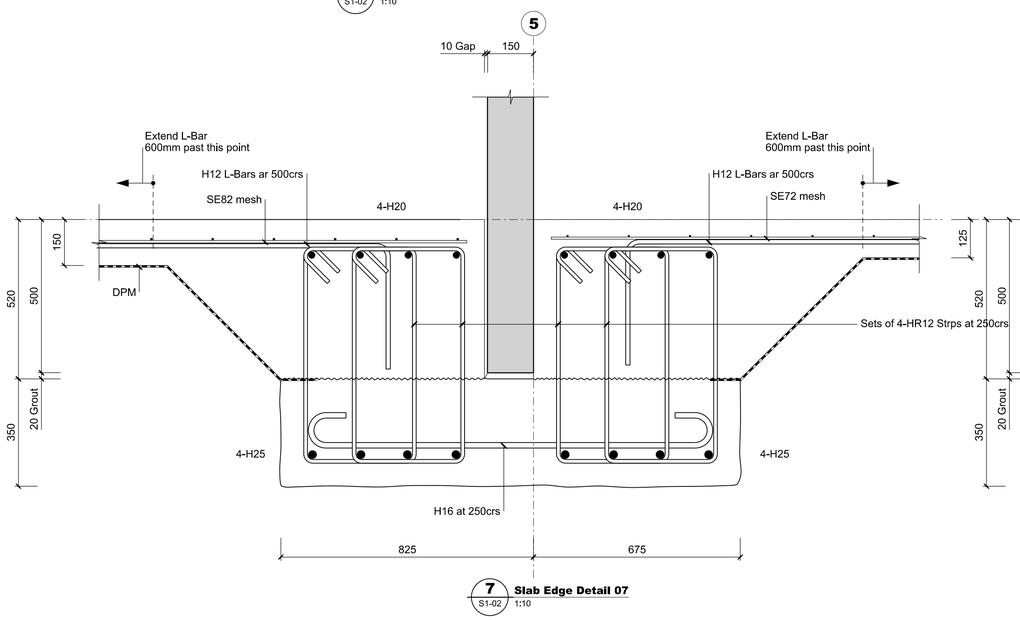
5 Slab Edge Detail 05 S1-02 1:10



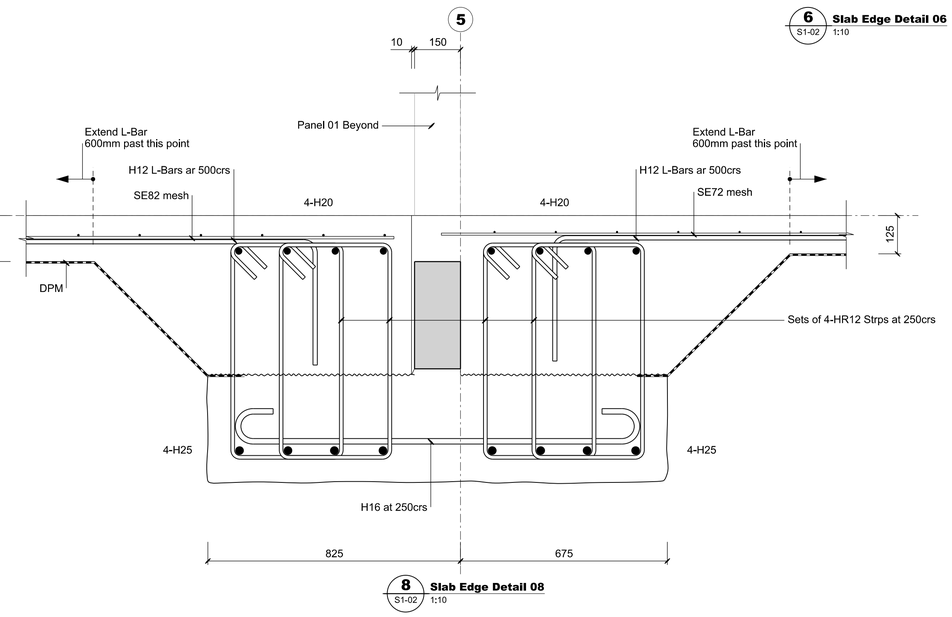
A Scale 1:10



6 Slab Edge Detail 06 S1-02 1:10



7 Slab Edge Detail 07 S1-02 1:10



8 Slab Edge Detail 08 S1-02 1:10

Refer to Sheet S1-01 for Notes

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ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

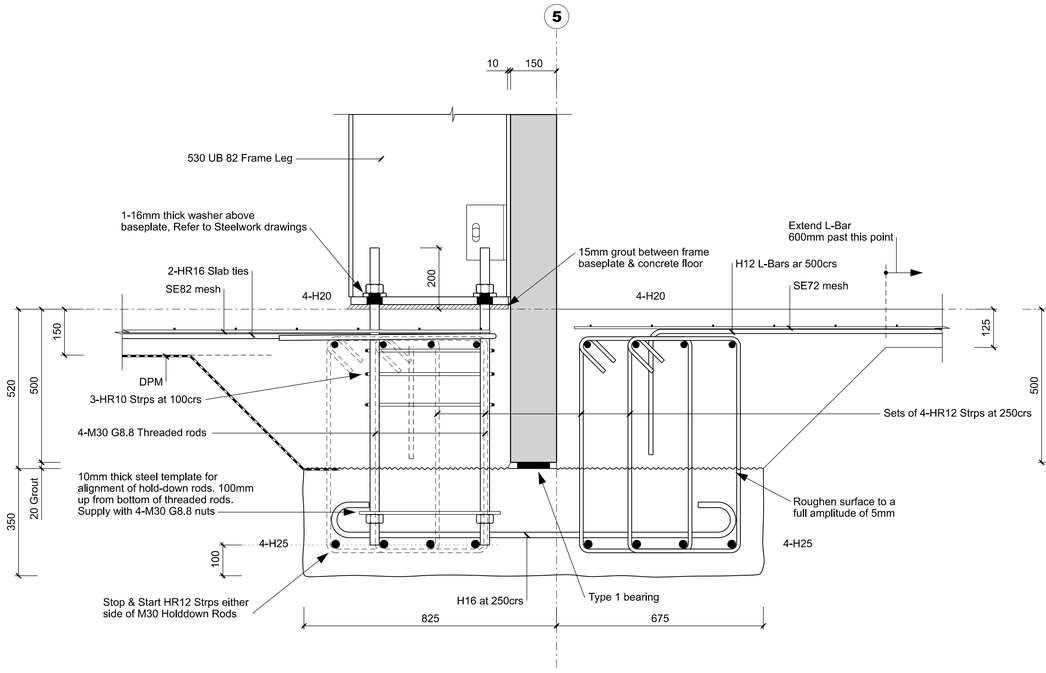
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DRAWING TITLE: SLAB EDGE DETAILS

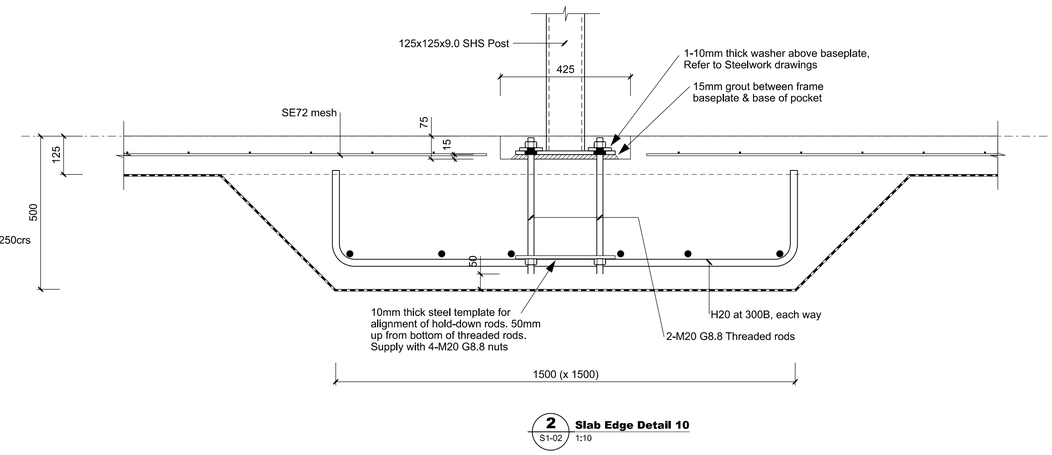
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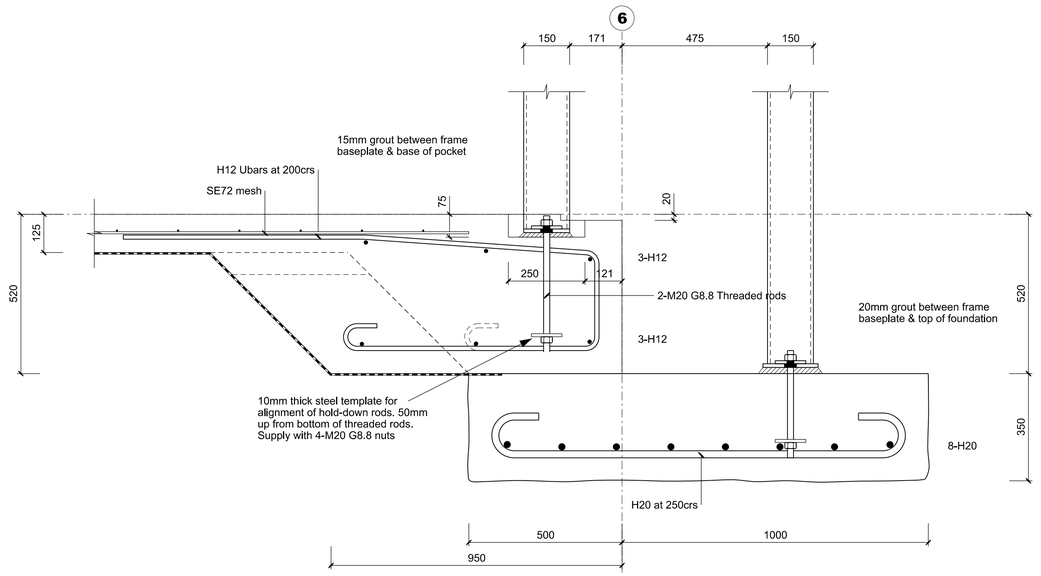
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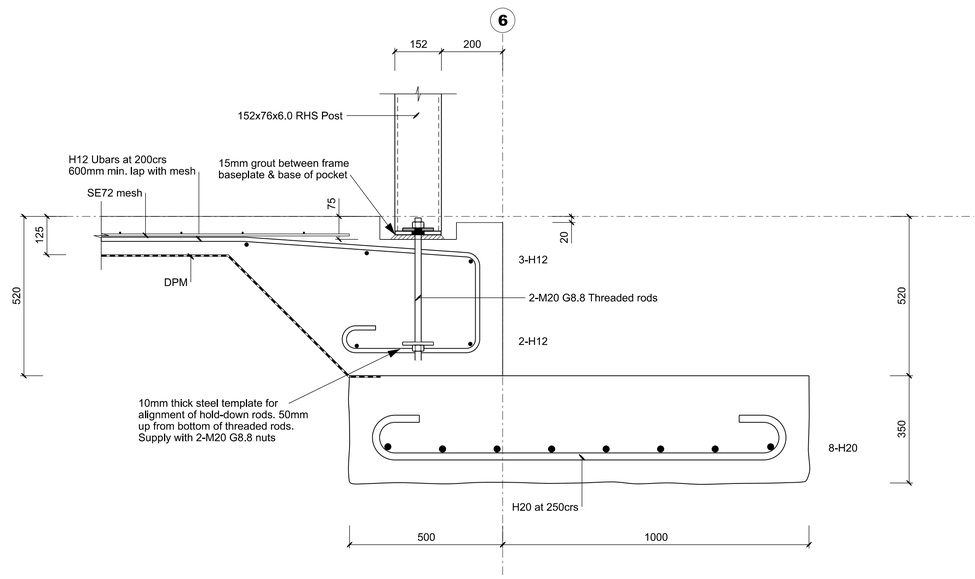
1 Slab Edge Detail 09 S1-02 1:10



2 Slab Edge Detail 10 S1-02 1:10



3 Slab Edge Detail 11 S1-02 1:10



4 Slab Edge Detail 12 S1-02 1:10

Refer to Sheet S1-01 for Notes

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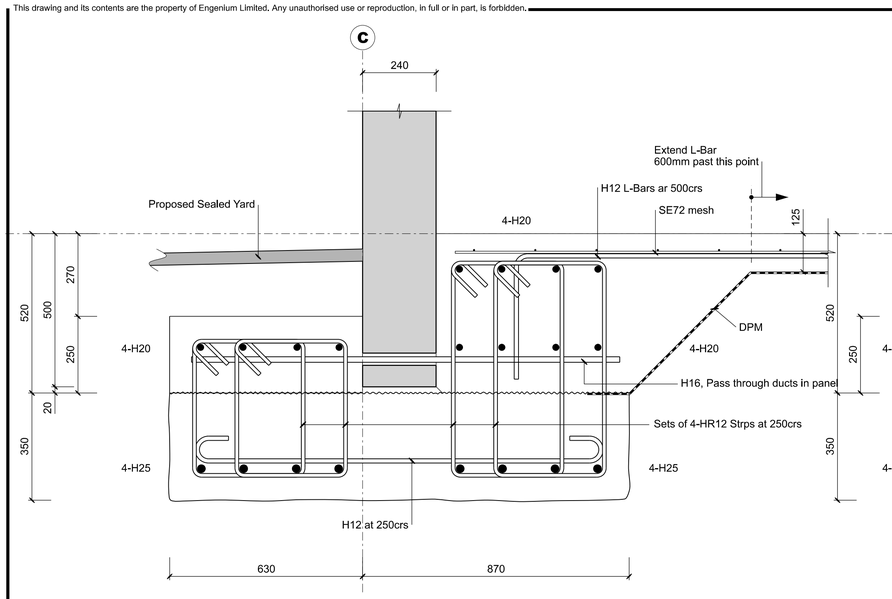
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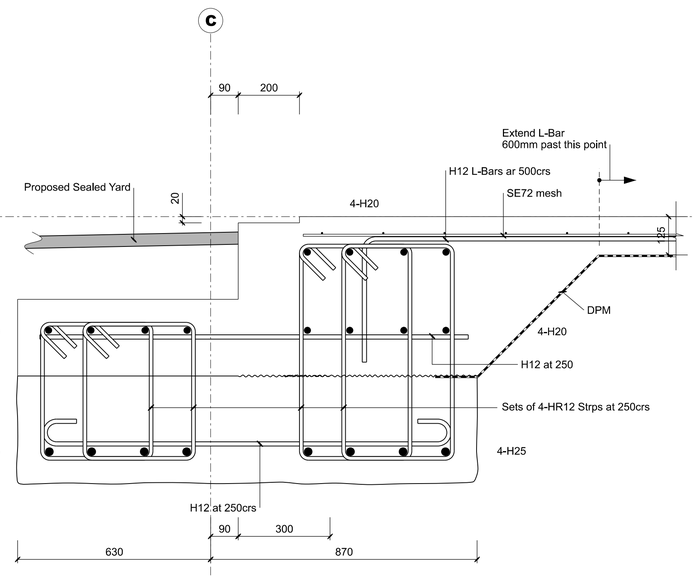
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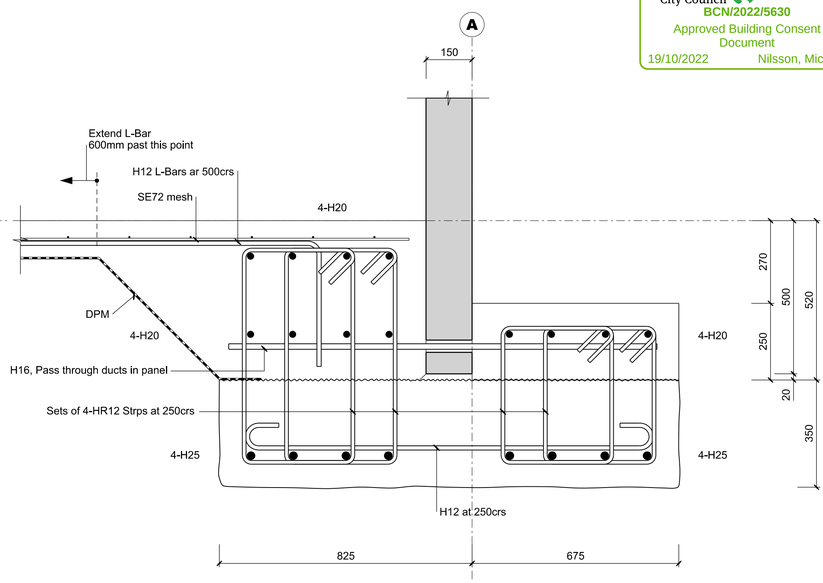
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1 S1-02 **Slab Edge Detail 13** 1:10



2 S1-02 **Slab Edge Detail 14** 1:10



3 S1-02 **Slab Edge Detail 15** 1:10

Refer to Sheet S1-01 for Notes

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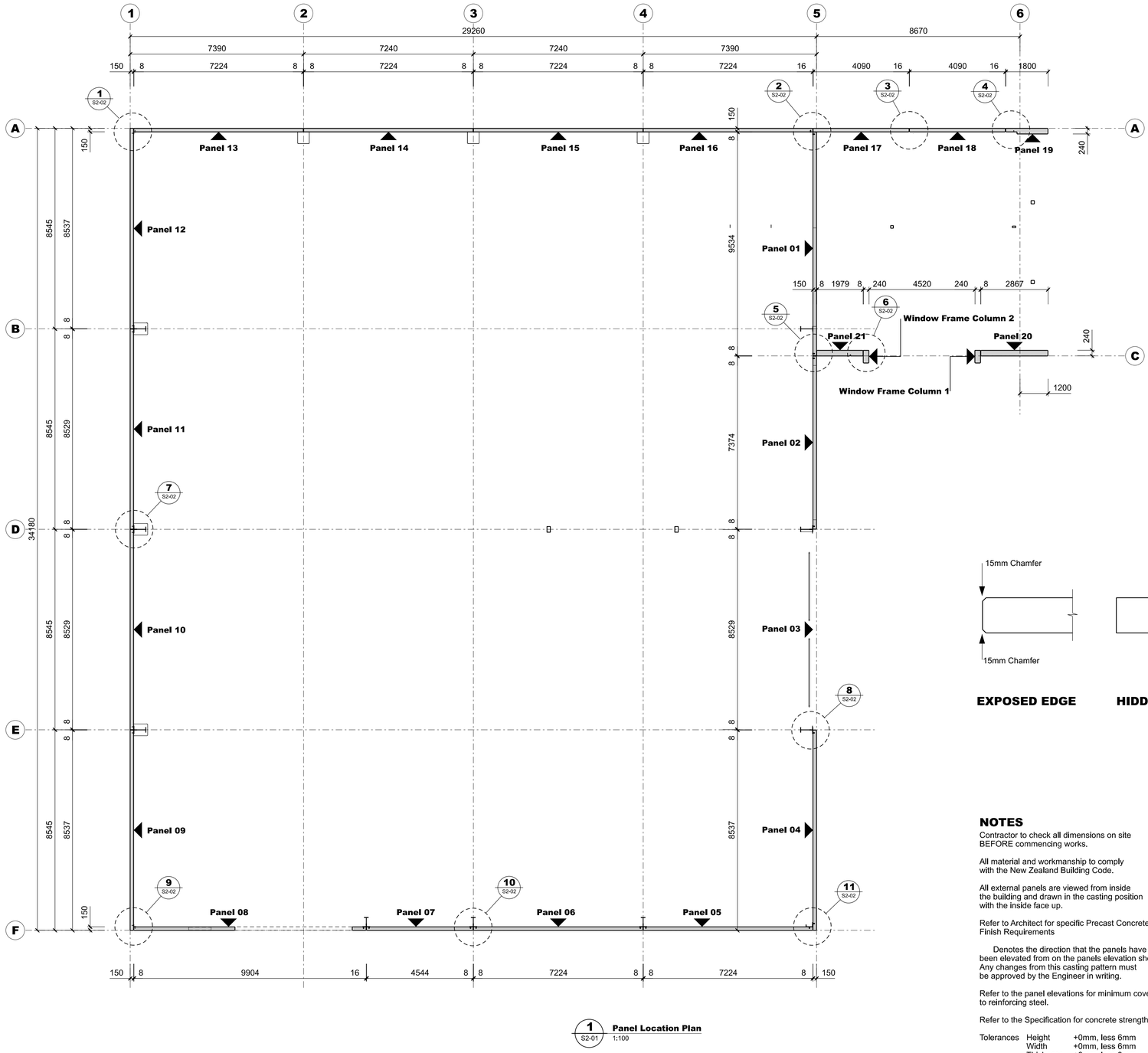
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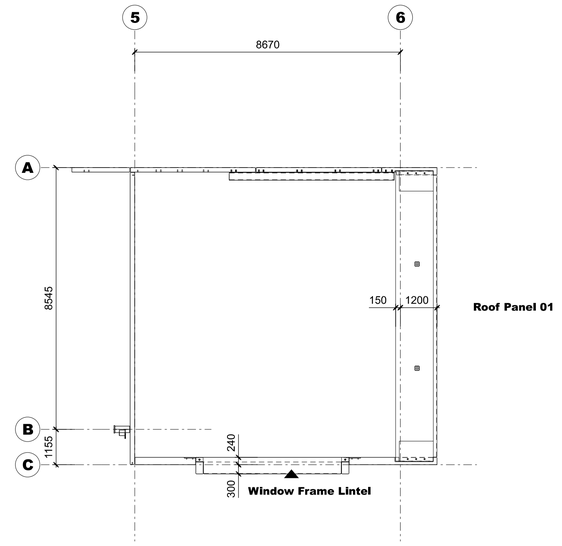
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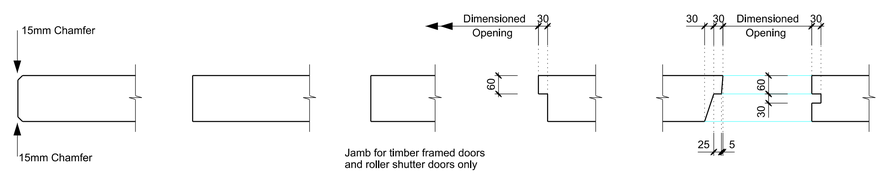
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1 S2-01 **Panel Location Plan**
1:100



2 S2-01 **Panel Location Plan - Roof Level**
1:100



NOTE: Refer to Panel Elevations for all reinforcing around Windows, Doors & at panel edges

EXPOSED EDGE **HIDDEN EDGE** **JAMBS** **SILL** **HEAD**

TYPICAL PANEL EDGES

NOTES

Contractor to check all dimensions on site BEFORE commencing works.

All material and workmanship to comply with the New Zealand Building Code.

All external panels are viewed from inside the building and drawn in the casting position with the inside face up.

Refer to Architect for specific Precast Concrete Finish Requirements

Denotes the direction that the panels have been elevated from on the panels elevation sheets. Any changes from this casting pattern must be approved by the Engineer in writing.

Refer to the panel elevations for minimum covers to reinforcing steel.

Refer to the Specification for concrete strengths.

Tolerances Height +0mm, less 6mm
Width +0mm, less 6mm
Thickness +0mm, less 3mm

Legend

Denotes TIM20x75 top face unless stated otherwise on panel.

Suffix

(T) Denotes top layer of steel
(t) Denotes top layer of steel directly under "T" layer
(b) Denotes bottom layer of steel directly over "B" layer
(B) Denotes bottom layer of steel
(C) Denotes central layer of steel
(EW) Denotes Steel Each Way
(EF) Denotes Steel Each Face
(LV) Denotes Steel Length Varies
(NF) Denotes Near Face
(FF) Denotes Far Face
(SE) Denotes 'Seen Edge' - No edge Lifting Eyes to be installed on this edge.

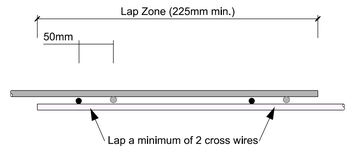
Contractor to ensure panel frees from recess formers during panel erection.

Contractor is to check that opening edge details match joinery requirements before forming edges.

Refer to Architects drawings for all sealant and Fire Rating details.

All Fixings in panel are to be Fixing A's unless stated otherwise and shall have a D10 Ubar ex. 1000 (500mm long legs) at any Fixing within 400mm of any panel edge.

Lap all mesh a minmum of 2 cross wires but no less than 225mm



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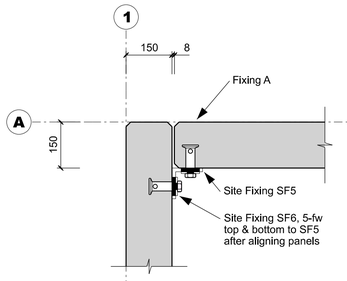
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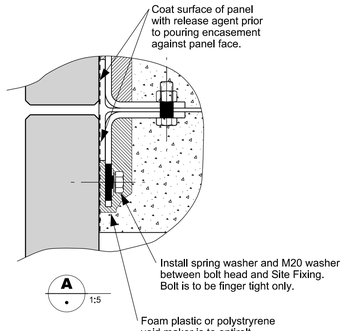
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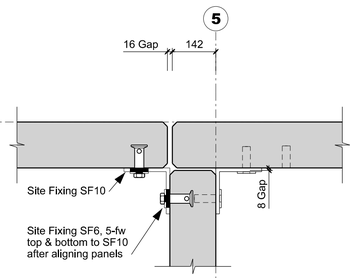
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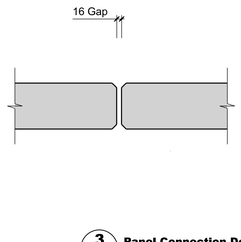


1 Panel Connection Detail 01 S2-01 1:10

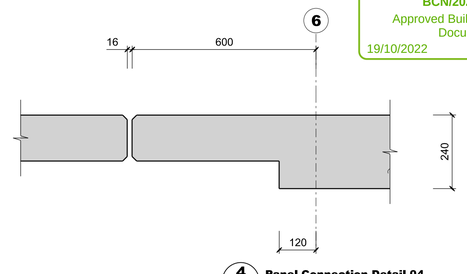




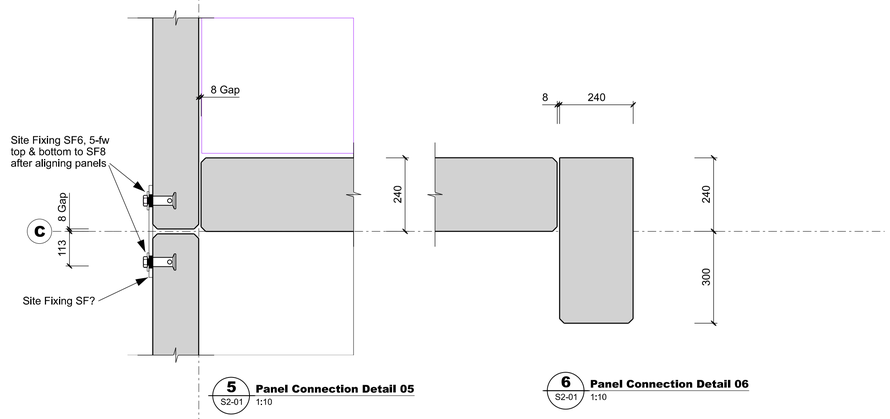
2 Panel Connection Detail 02 S2-01 1:10



3 Panel Connection Detail 03 S2-01 1:10

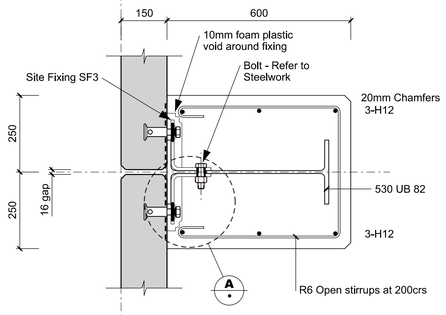


4 Panel Connection Detail 04 S2-01 1:10

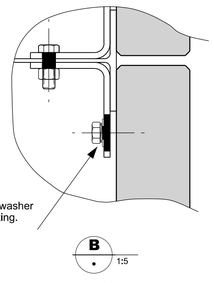


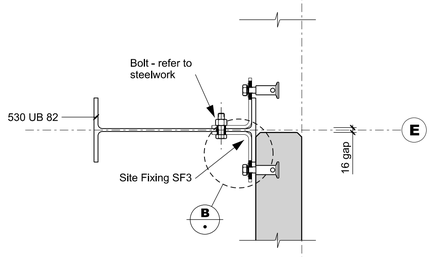
5 Panel Connection Detail 05 S2-01 1:10

6 Panel Connection Detail 06 S2-01 1:10

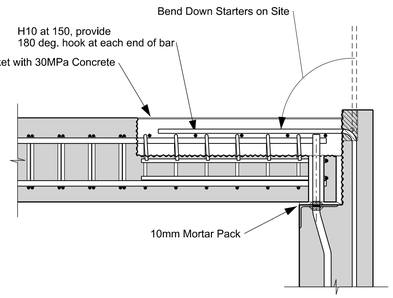


7 Panel Connection Detail 07 S2-01 1:10

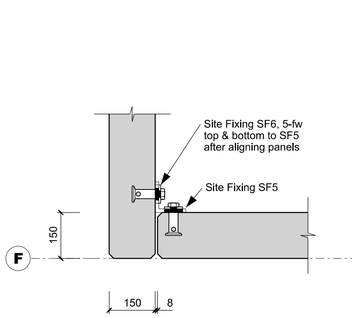




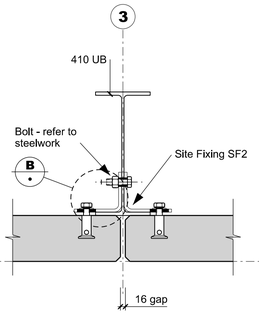
8 Panel Connection Detail 08 S2-01 1:10



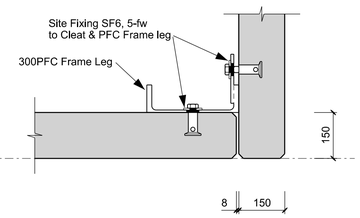
12 Roof Panel Connection Detail S2-01 1:10



9 Panel Connection Detail 09 S2-01 1:10



10 Panel Connection Detail 11 S2-01 1:10



11 Panel Connection Detail 12 S2-01 1:10

Refer to Sheet S2-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

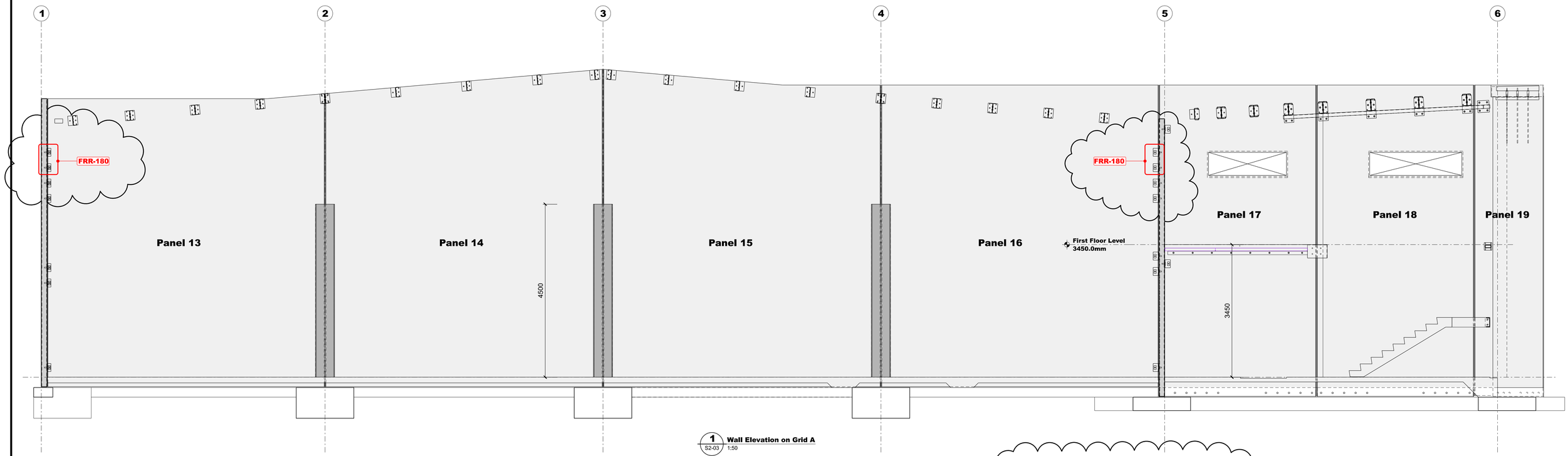
DESIGN:	SH	25-05-2022
DES. CHECK:	GC	25-05-2022
DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: PANEL CONNECTION DETAILS

SCALES AT A1	FILE	DRAWING No.	ISSUE
1:10	E1823	S2-02	1

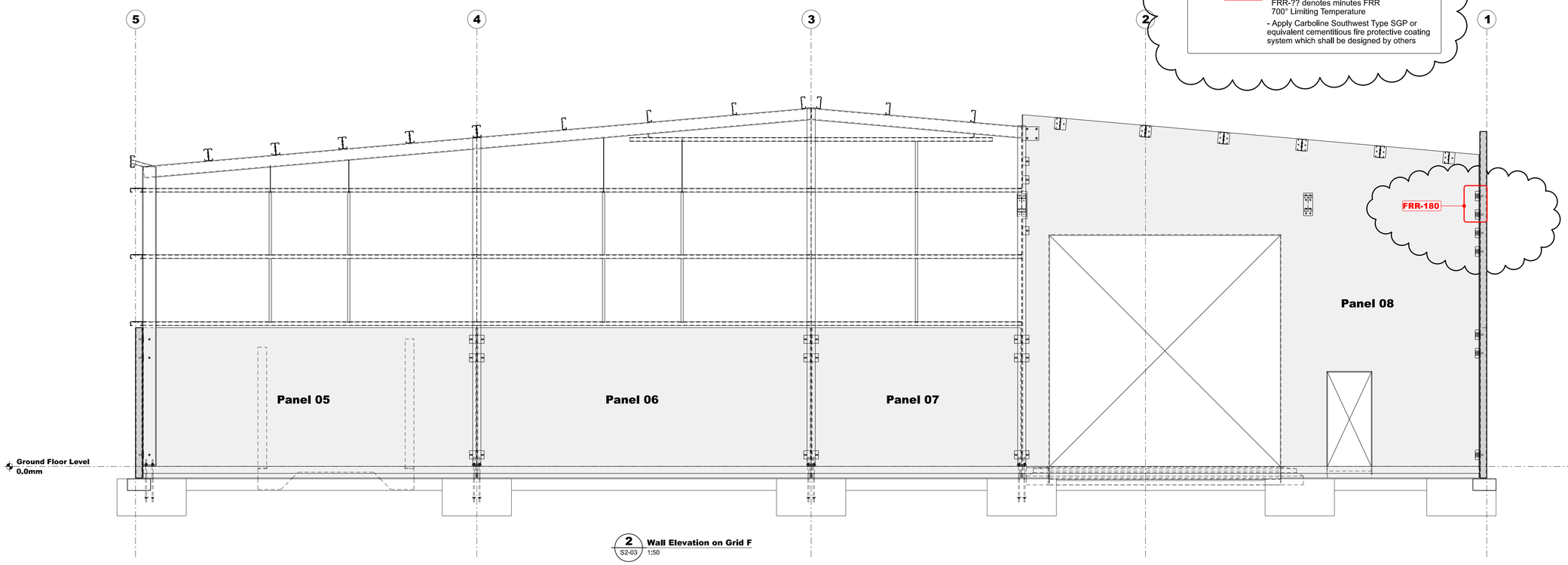
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1 S2-03 **Wall Elevation on Grid A** 1:50

FRR-??? - Denotes Fixings that need to be Fire Rated
FRR-?? denotes minutes FRR
700° Limiting Temperature
- Apply Carboline Southwest Type SGP or equivalent cementitious fire protective coating system which shall be designed by others



2 S2-03 **Wall Elevation on Grid F** 1:50

Refer to Sheet S2-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
2	08-09-2022	GC	FIRE RATING NOTES ADDED
1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

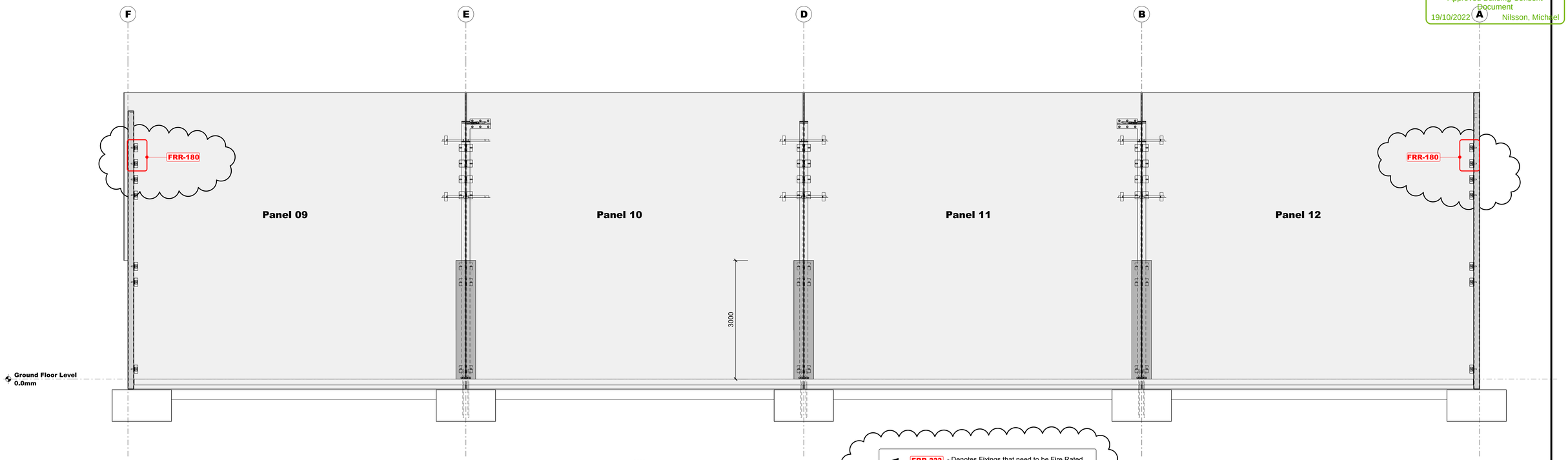
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DES. CHECK:	GC	25-05-2022
DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: WALL ELEVATIONS ON GRID A & F

SCALES AT A1	FILE	DRAWING No.	ISSUE
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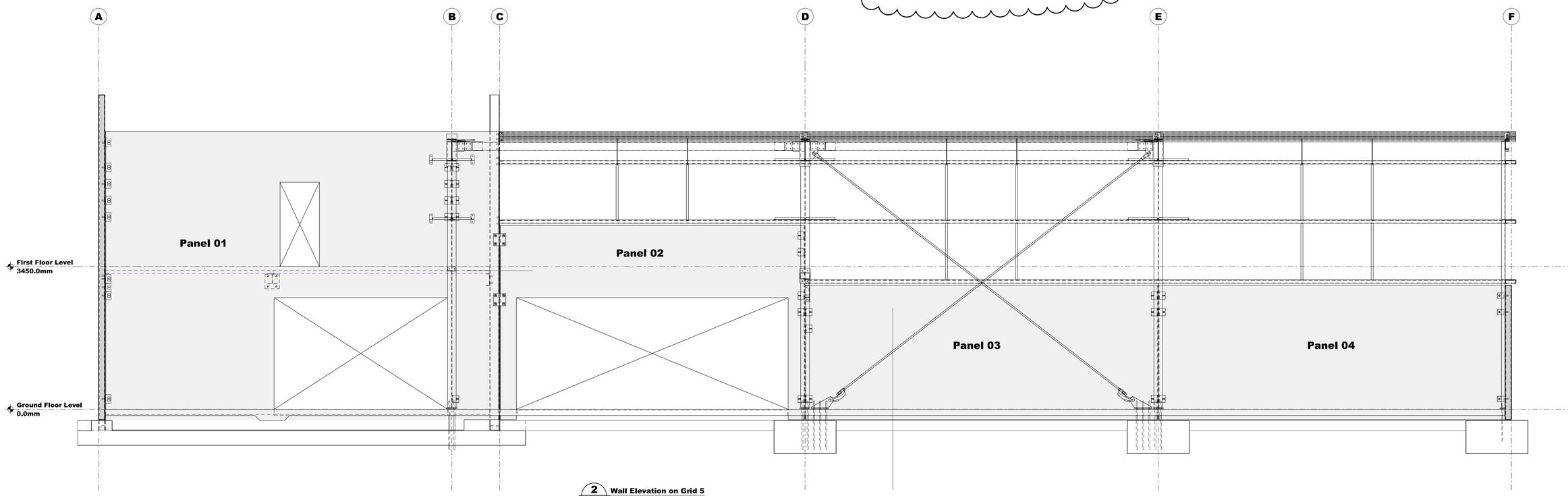
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1 S2-04 **Wall Elevation on Grid 1** 1:50

FRR-??? - Denotes Fixings that need to be Fire Rated
FRR-?? denotes minutes FRR
700° Limiting Temperature
- Apply Carboline Southwest Type SGP or equivalent cementitious fire protective coating system which shall be designed by others



2 S2-04 **Wall Elevation on Grid 5** 1:50

Refer to Sheet S2-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

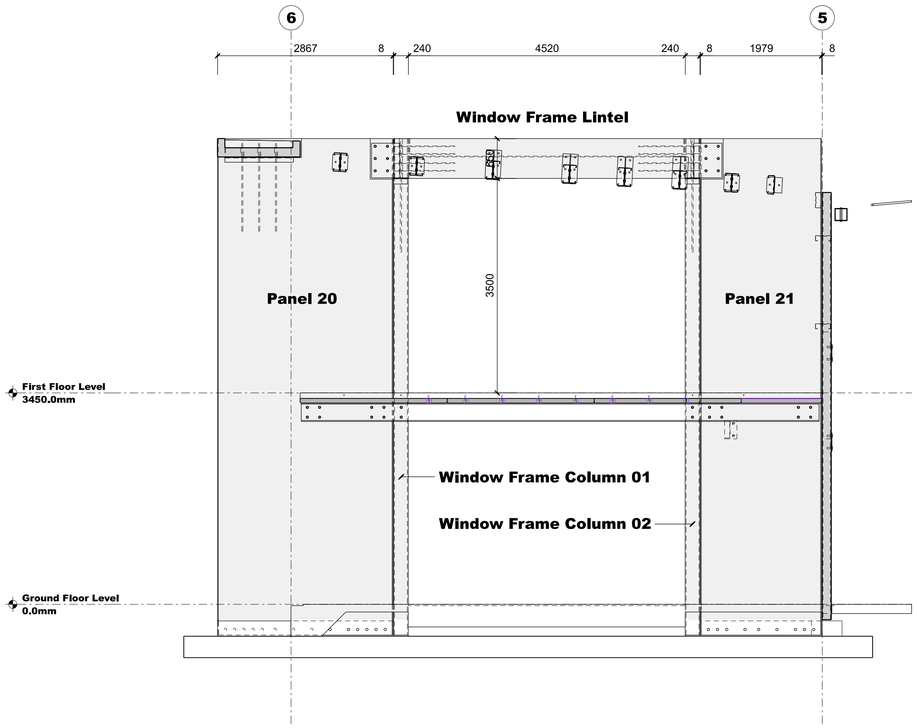
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DES. CHECK:	GC	25-05-2022
DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: WALL ELEVATIONS ON GRIDS 1 & 5

SCALES AT A1	FILE	DRAWING No.	ISSUE
1:50	E1823	S2-04	2

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1 / S2-05 **Wall Elevation on Grid C**
1:50

Refer to Sheet S2-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

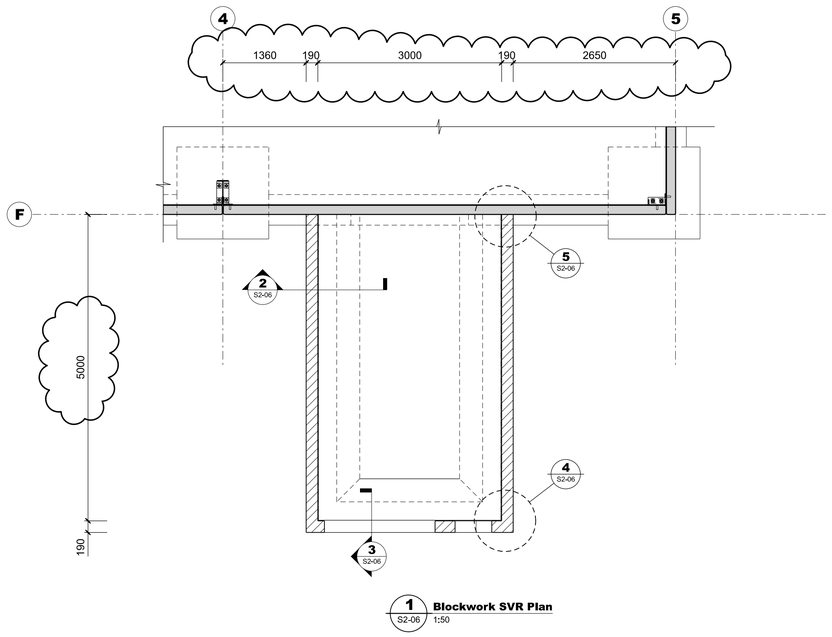
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DWG CHECK:	CM	25-05-2022

DRAWING TITLE: WALL ELEVATION ON GRID C

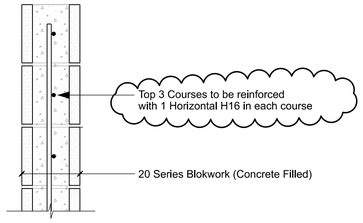
SCALES AT A1	FILE	DRAWING No.	ISSUE
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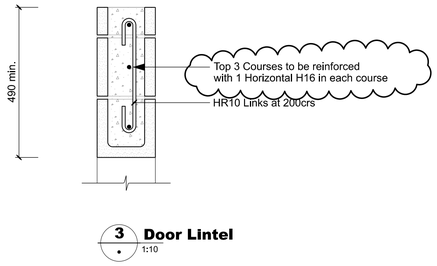
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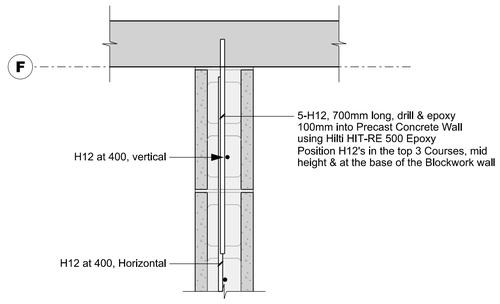


1 Blockwork SVR Plan
S2-06 1:50

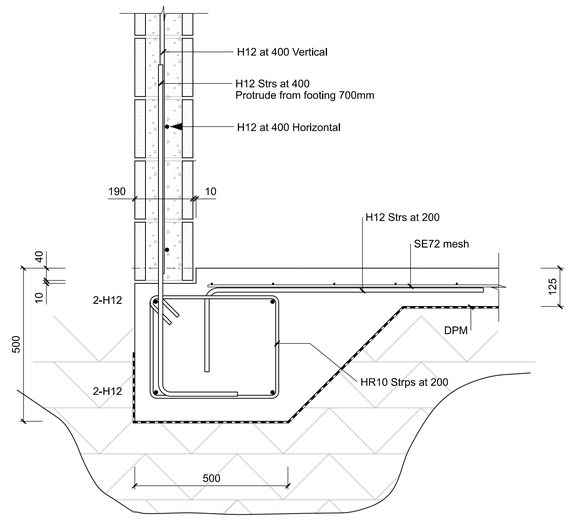




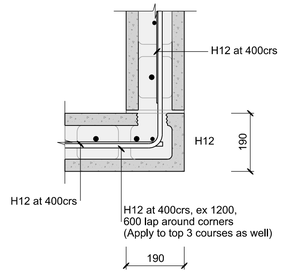
3 Door Lintel
1:10



5 Typical connection to Main Building
1:10



2 Typical Block Wall Section
S2-06 1:10



4 Typical Corner
1:10

NOTES

All materials and workmanship to comply with the New Zealand Building Code.

These drawings to be read in conjunction with the Architectural drawings.

Provide clean out pockets to all vertical reinforced cells.

Provide control joints as detailed in the New Zealand Concrete Masonry Manual.

Provide vertical reinforcement at all ends, corners, junctions and edges of openings.

Grout strength is to be 17.5MPa at 28 days. Fill all cells.

Blockwork to be grade B in accordance with the New Zealand Building Code.

50mm cover minimum to reinforcing steel inside Blockwork.

All wells to have a vertical reinforcing bar in the end cells from the foundation.

All horizontal bars to terminate with a 90° hook in the end cells of the walls unless a return wall is present in which case the horizontal bars shall be continuous around the corners.

H12 minimum lap length is 600mm.

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CLIENT: ZEAL CONSTRUCTION LTD

PROJECT: DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
2	28-07-2022	GC	SPRINKLER VALAE ROOM SIZE AMENDED
1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

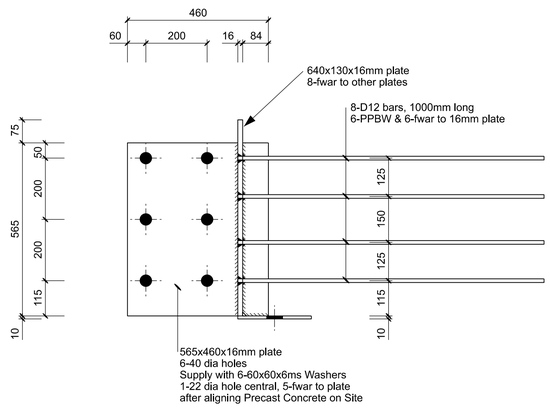
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DES. CHECK:	GC	25-05-2022
DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: BLOCKWORK SPRINKLER VALVE ROOM

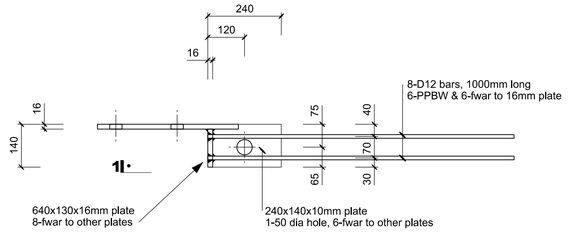
SCALES AT A1	FILE	DRAWING No.	ISSUE
1:50, 1:10	E1823	S2-06	2

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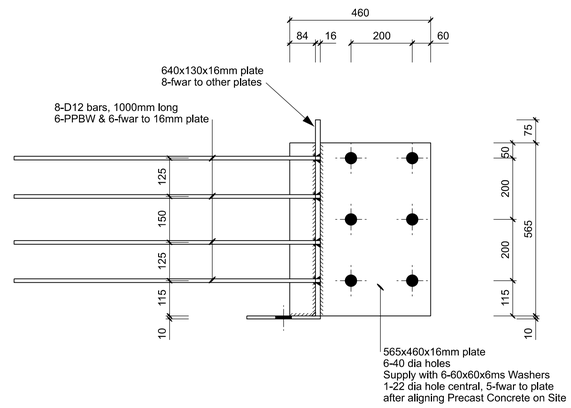


1 1:10

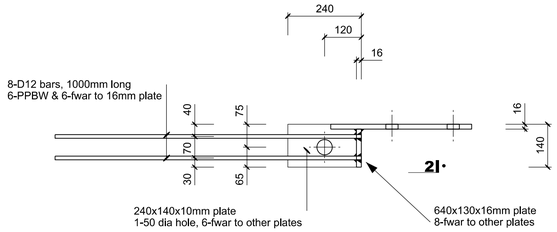


HOT DIP GALVANISE
AFTER FABRICATION

FIXING A

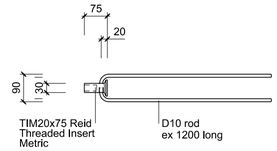


2 1:10

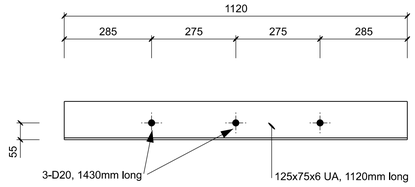


HOT DIP GALVANISE
AFTER FABRICATION

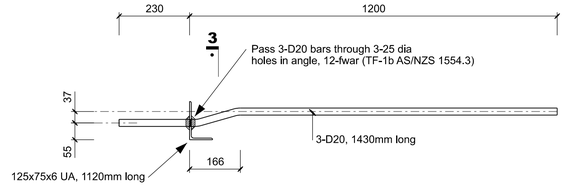
FIXING B



FIXING C

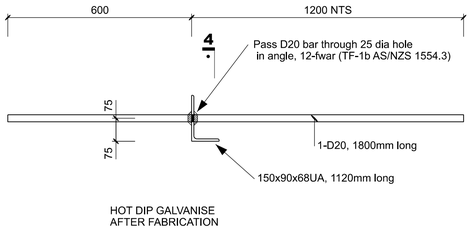


3 1:10



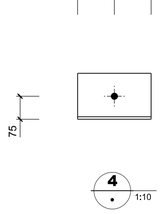
HOT DIP GALVANISE
AFTER FABRICATION

BEARING PLATE BP1

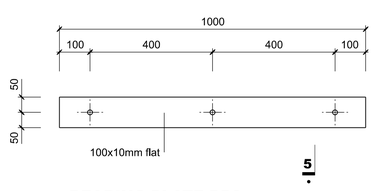


HOT DIP GALVANISE
AFTER FABRICATION

BEARING PLATE BP2

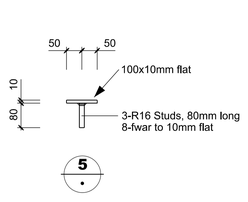


4 1:10

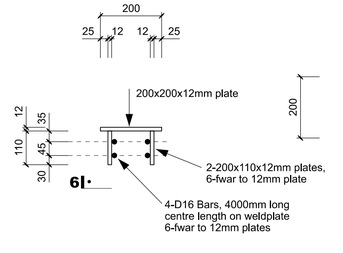


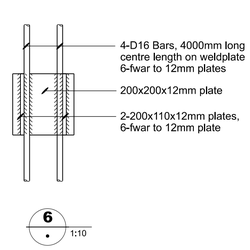
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BEARING PLATE BP3



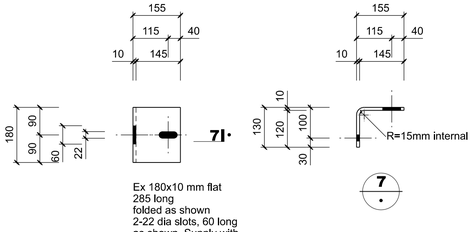
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6 1:10

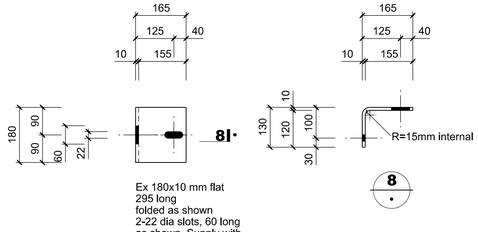
WELDPLATE WP1



7

Ex 180x10 mm flat
285 long
folded as shown
2-22 dia slots, 60 long
as shown. Supply with
M20 bolt, 70 long and
spring washer

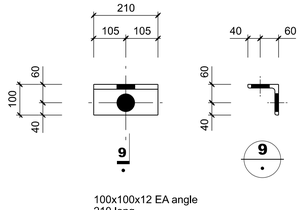
SITE FIXING SF2



8

Ex 180x10 mm flat
295 long
folded as shown
2-22 dia slots, 60 long
as shown. Supply with
M20 bolt 70 long and
spring washer

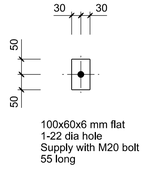
SITE FIXING SF3



9

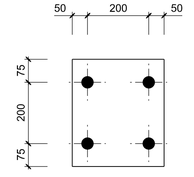
100x100x12 EA angle
210 long
2-60 dia holes

SITE FIXING SF5



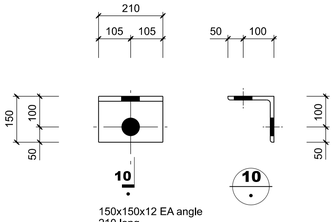
100x60x6 mm flat
1-22 dia hole
Supply with M20 bolt
55 long

SITE FIXING SF6



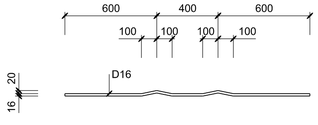
350x300x12 mm flat
4-40 dia holes

SITE FIXING SF8

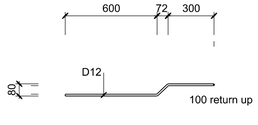


150x150x12 EA angle
210 long
2-60 dia holes

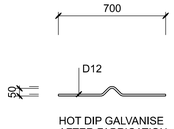
SITE FIXING SF10



ROD TYPE 1
Scale 1:20



ROD TYPE 2
ROD TYPE 3 Handed
Scale 1:20



HOT DIP GALVANISE
AFTER FABRICATION

ROD TYPE 8
Scale 1:20

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PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

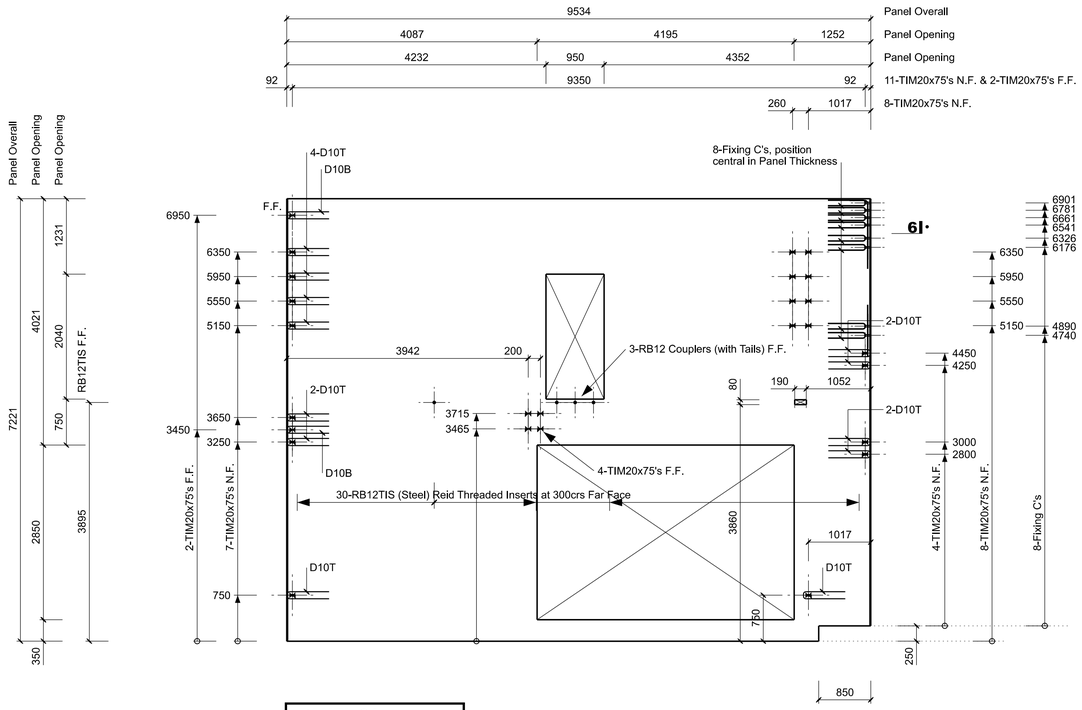
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DWG CHECK:	CM	25-05-2022

DRAWING TITLE: FIXINGS

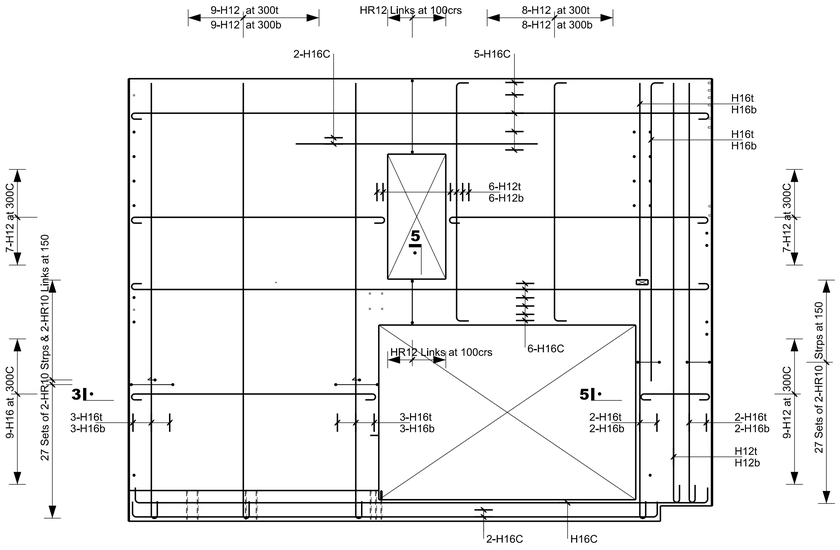
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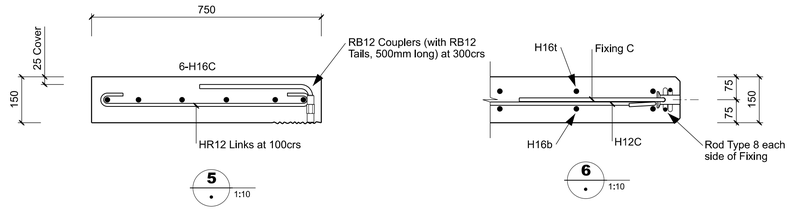
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19/10/2022 Nilsson, Michael

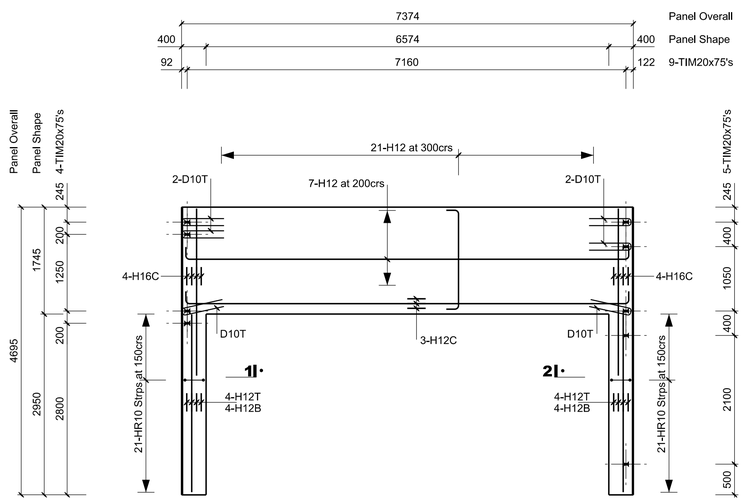


PANEL 01	
Thickness	150 mm
Weight	19.61 tonne
Volume	7.82 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	25 mm Min.

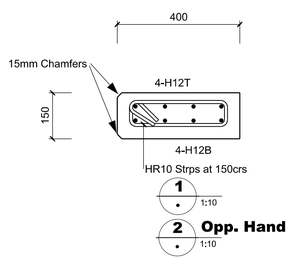


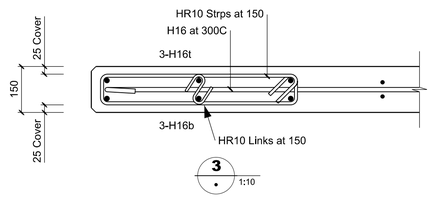
PANEL 01 - REINFORCING ONLY

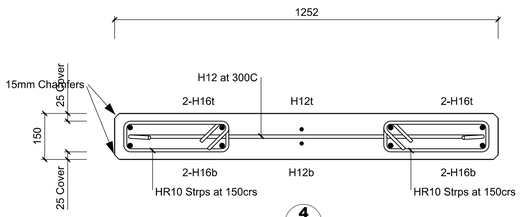




PANEL 02	
Thickness	150 mm
Weight	5.59 tonne
Volume	2.28 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.







Refer to Sheet S2-01 for Notes

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CLIENT: ZEAL CONSTRUCTION LTD

PROJECT: DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

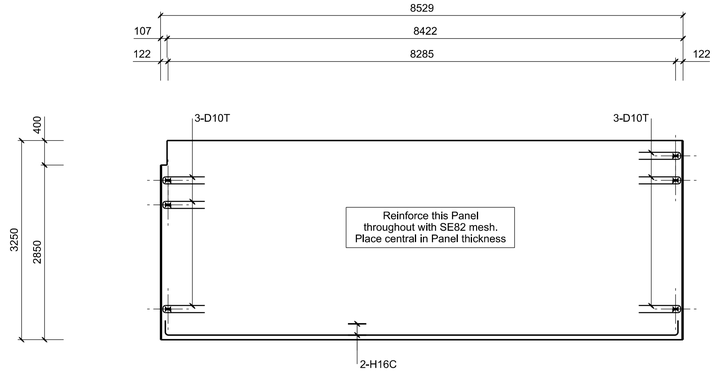
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DWG CHECK:	CM	25-05-2022

DRAWING TITLE: PRECAST CONCRETE PANELS 1 - 4

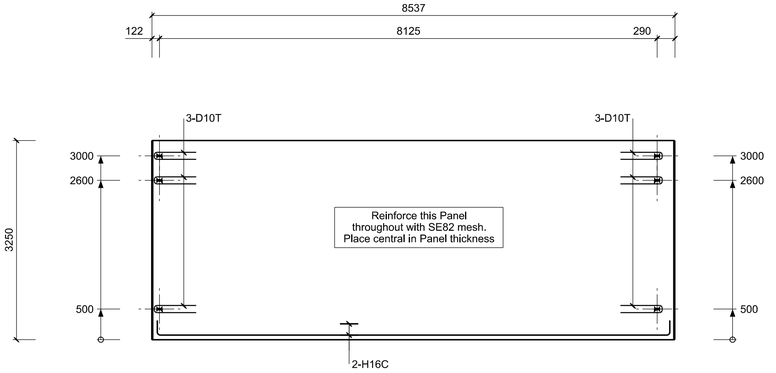
SCALES AT A1	FILE	DRAWING No.	ISSUE
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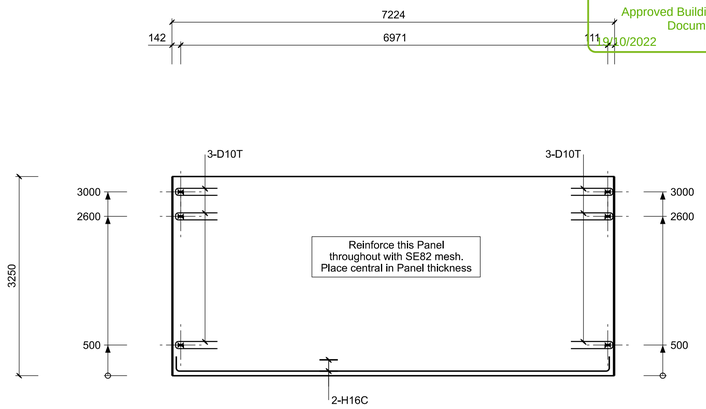
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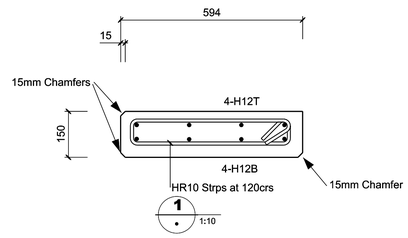
PANEL 03	
Thickness	150 mm
Weight	10.17 tonne
Volume	4.15 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

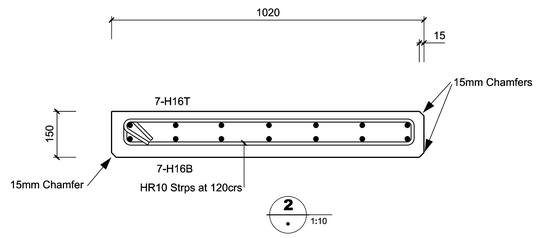


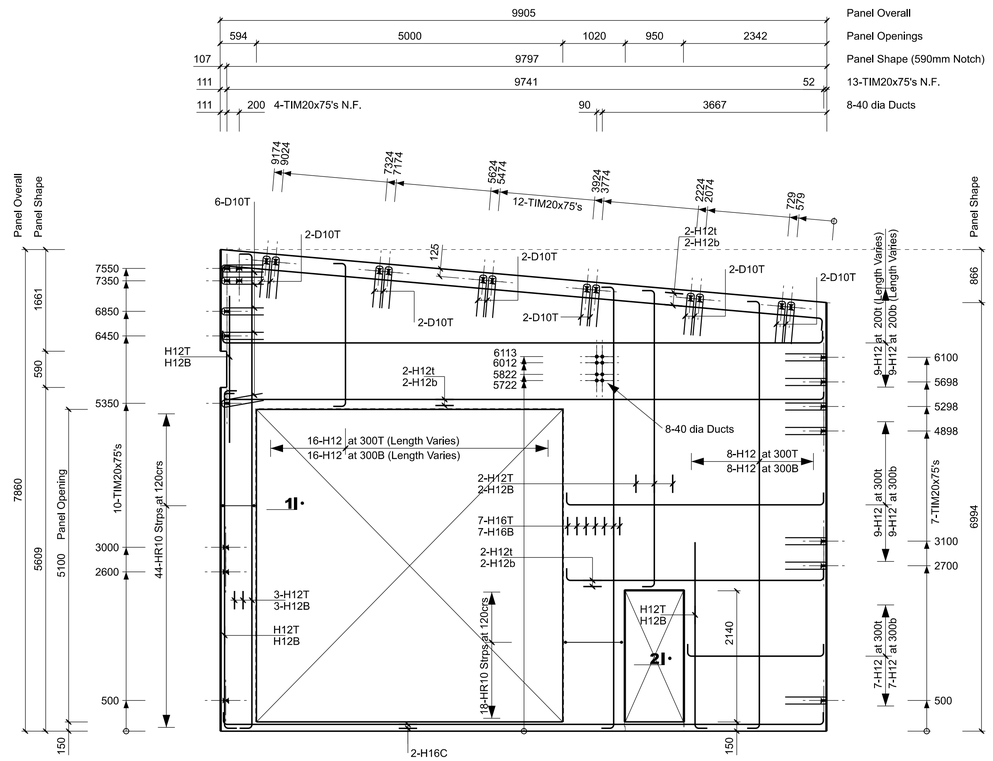
PANEL 04	
Thickness	150 mm
Weight	10.19 tonne
Volume	4.16 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

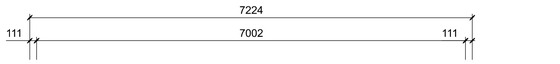


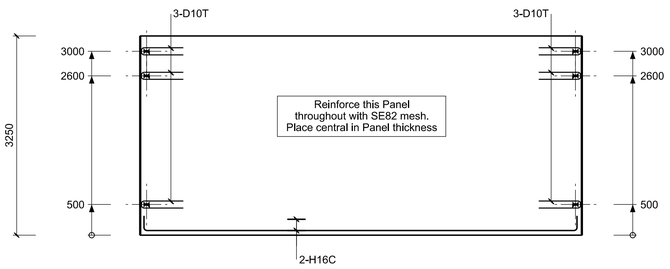
PANEL 05	
Thickness	150 mm
Weight	8.62 tonne
Volume	3.52 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.



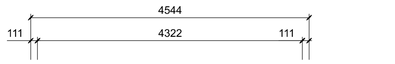


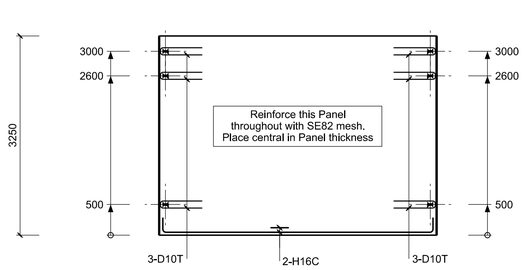






PANEL 06	
Thickness	150 mm
Weight	8.62 tonne
Volume	3.52 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.





PANEL 07	
Thickness	150 mm
Weight	5.41 tonne
Volume	2.21 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

PANEL 08	
Thickness	150 mm
Weight	16.86 tonne
Volume	6.88 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

Refer to Sheet S2-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

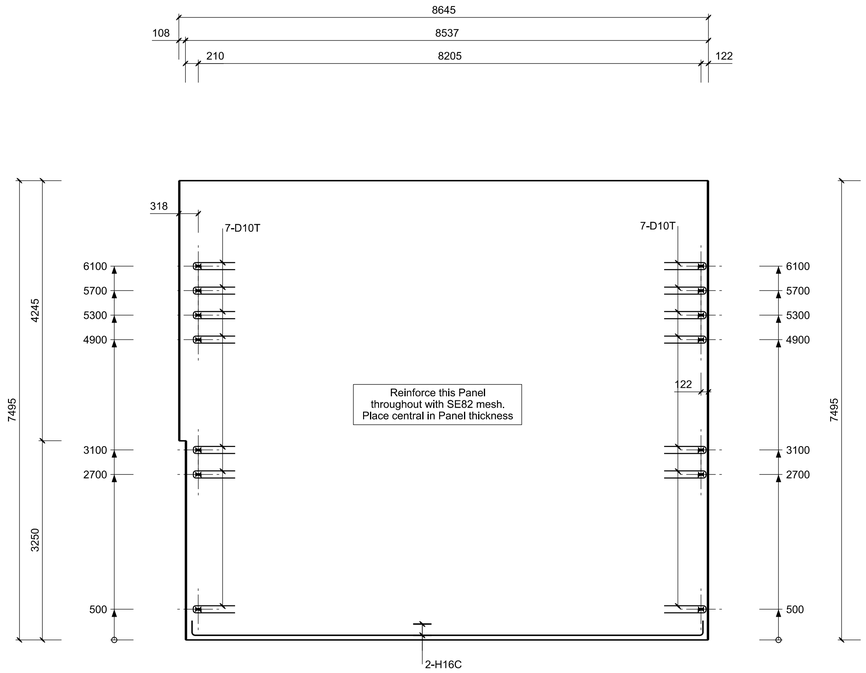
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DRAWING TITLE: PANEL REINFORCING TYPES

SCALES AT A1	FILE	DRAWING No.	ISSUE
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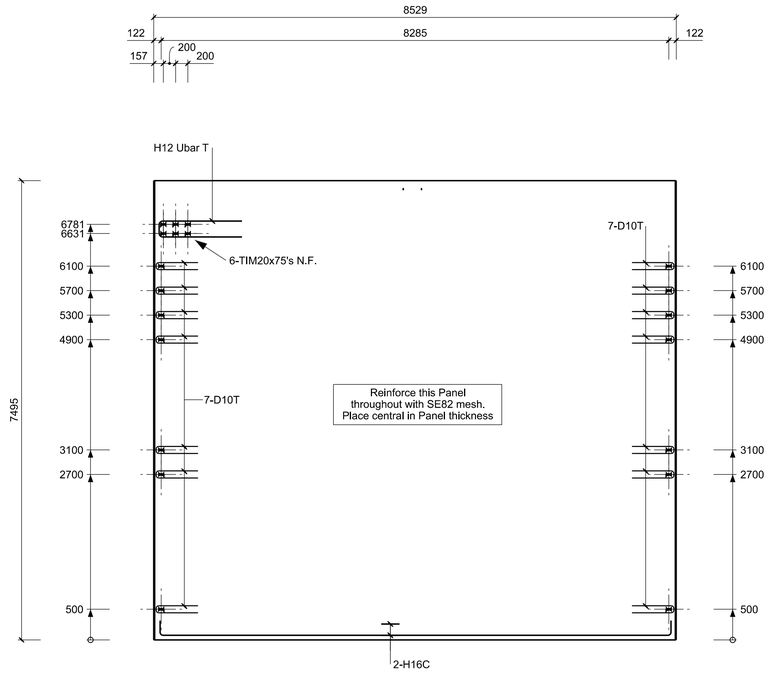
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19/10/2022 Nilsson, Michael



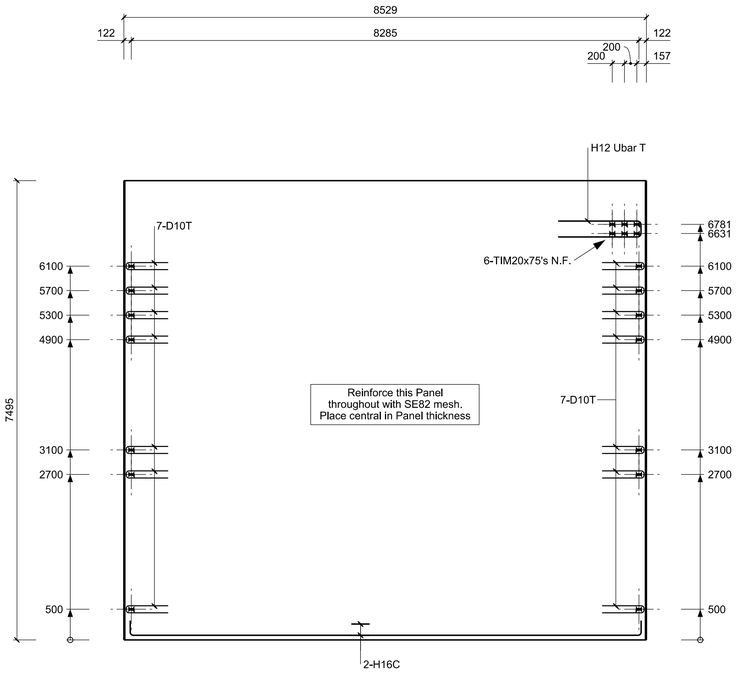
PANEL 09

Thickness	150 mm
Weight	23.67 tonne
Volume	9.66 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.



PANEL 10

Thickness	150 mm
Weight	23.47 tonne
Volume	9.58 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.



PANEL 11

Thickness	150 mm
Weight	23.47 tonne
Volume	9.58 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

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CLIENT:
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PROJECT:
DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
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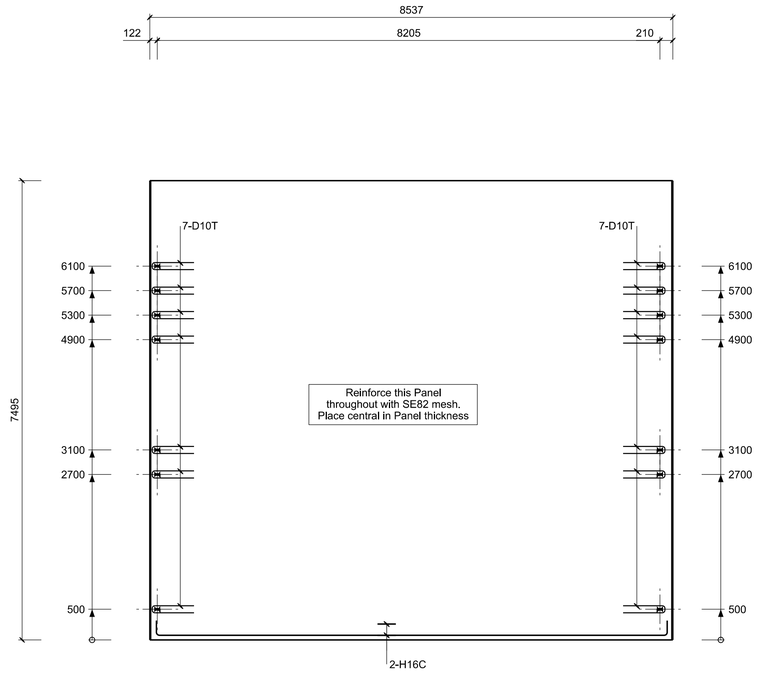
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PANEL REINFORCING TYPES

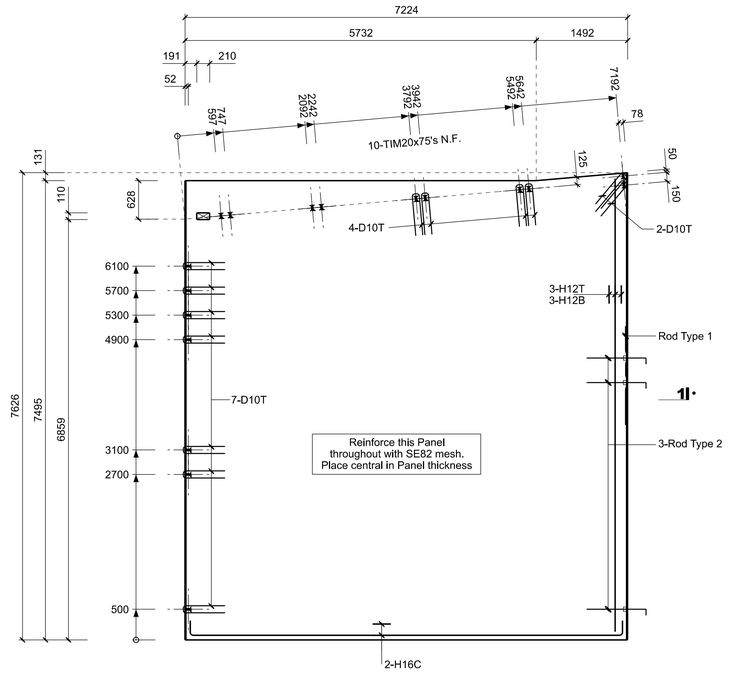
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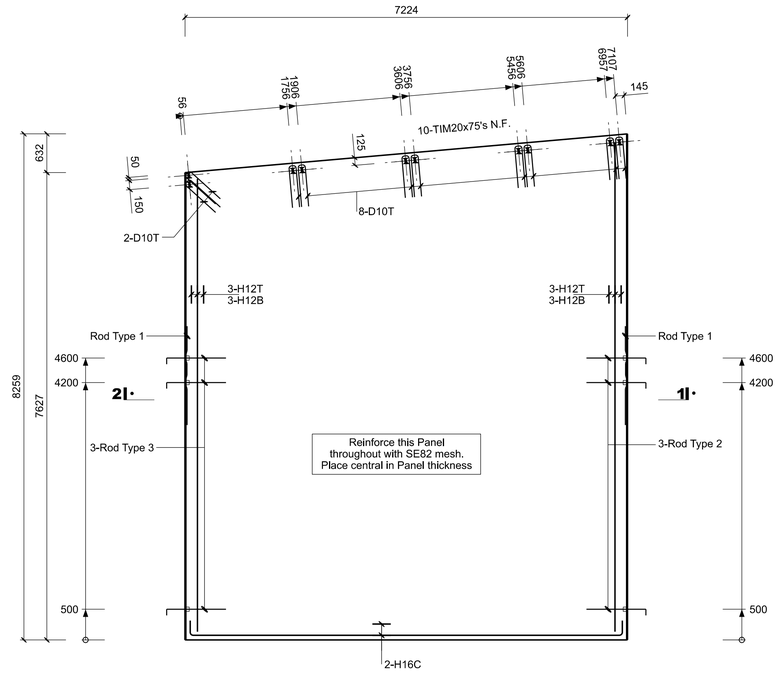
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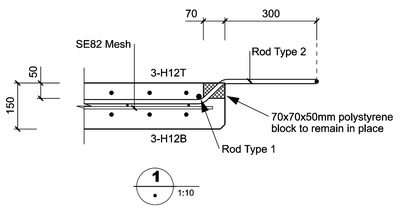
PANEL 12	
Thickness	150 mm
Weight	23.50 tonne
Volume	9.59 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

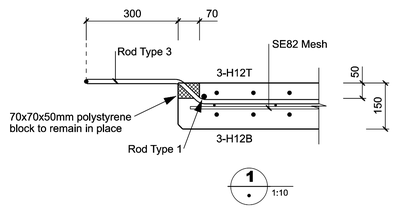


PANEL 13	
Thickness	150 mm
Weight	19.92 tonne
Volume	8.13 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.



PANEL 14	
Thickness	150 mm
Weight	21.07 tonne
Volume	8.60 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.





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CLIENT: ZEAL CONSTRUCTION LTD

PROJECT: DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

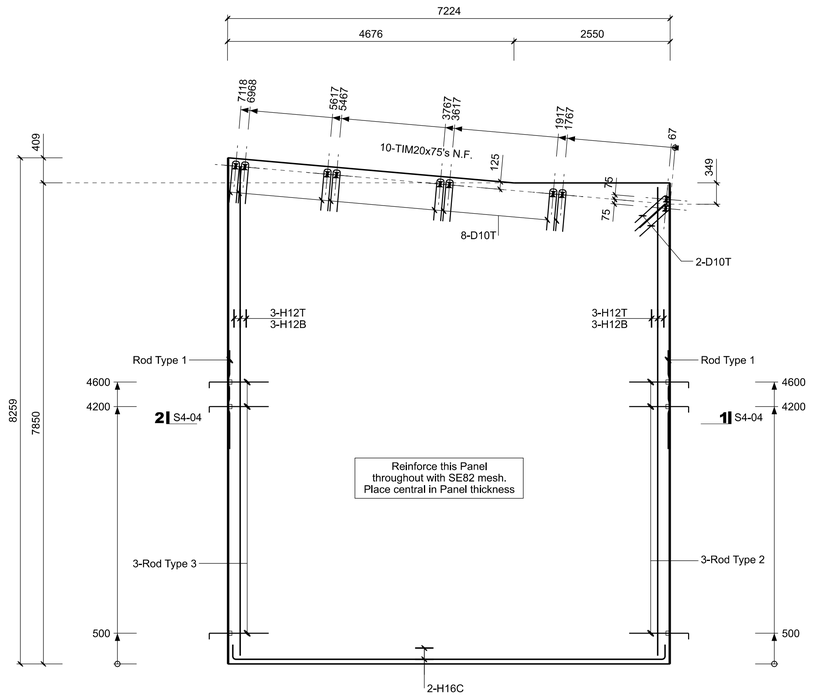
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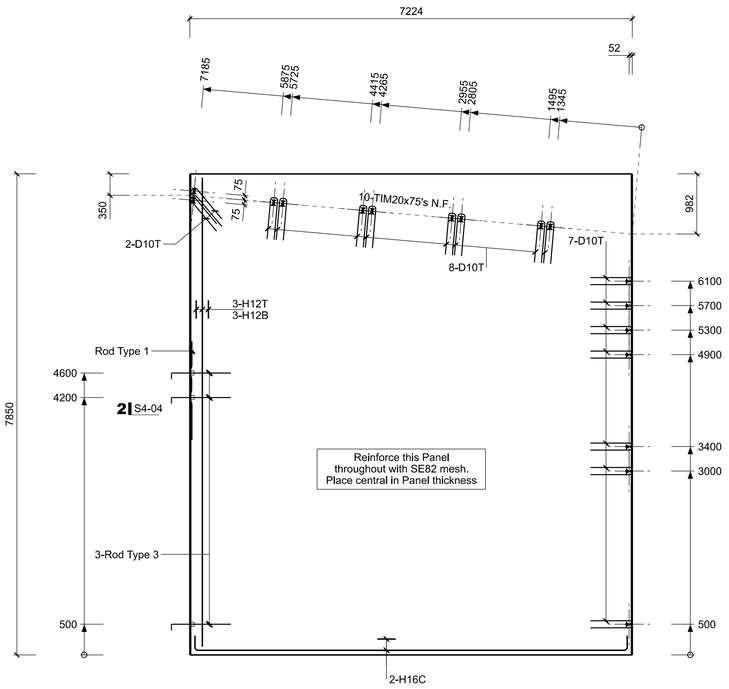
DRAWING TITLE: PANEL REINFORCING TYPES

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PANEL 15	
Thickness	150 mm
Weight	21.19 tonne
Volume	8.65 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

PANEL 16	
Thickness	150 mm
Weight	20.83 tonne
Volume	8.50 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

Refer to Sheet S2-01 for Notes

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CLIENT:
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PROJECT:
DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
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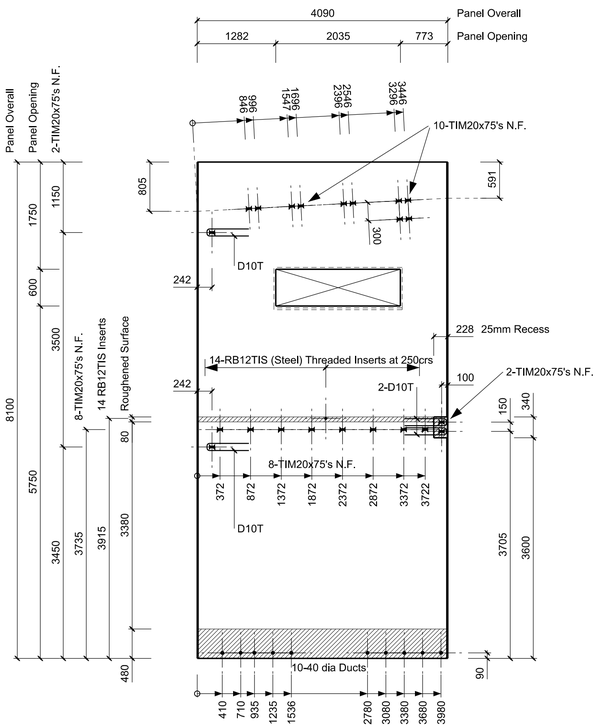
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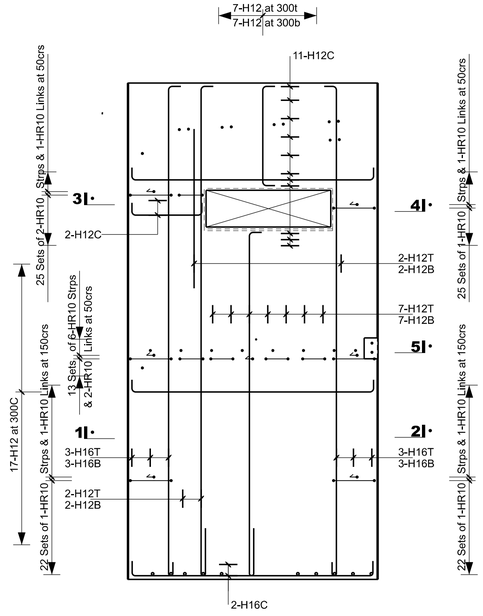
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SCALES AT A1	FILE	DRAWING No.	ISSUE
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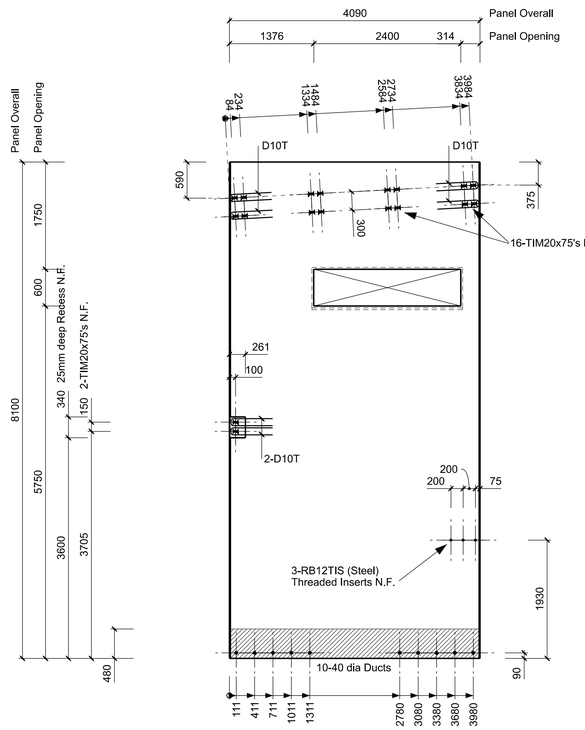


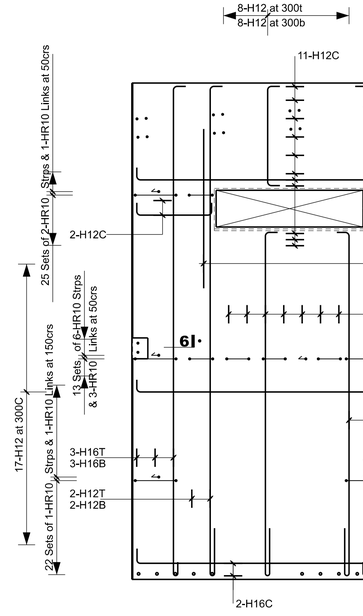


PANEL 17 - REINFORCING ONLY

PANEL 17	
Thickness	150 mm
Weight	11.29 tonne
Volume	4.61 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

Denotes Roughened surface to an amplitude of 5mm

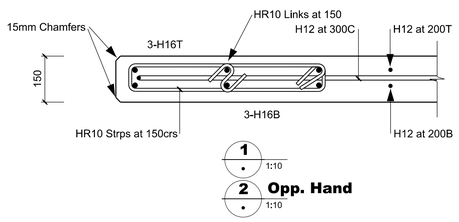


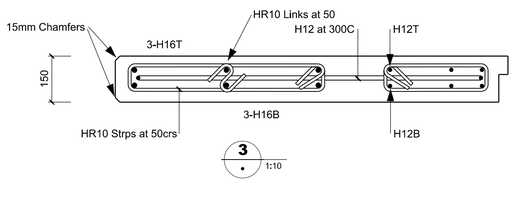


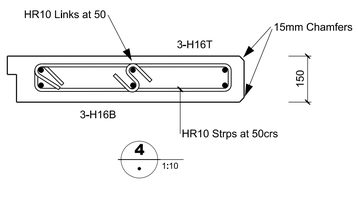
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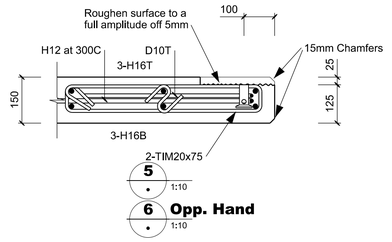
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Thickness	150 mm
Weight	??.?? tonne
Volume	??.?? cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

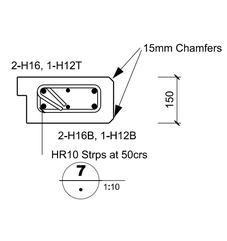
Denotes Roughened surface to an amplitude of 5mm











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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

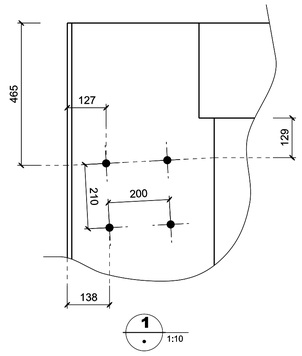
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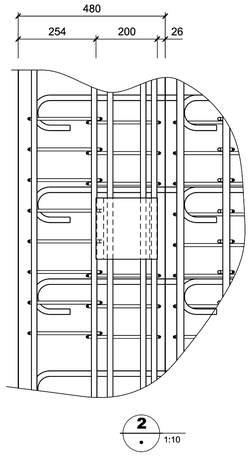
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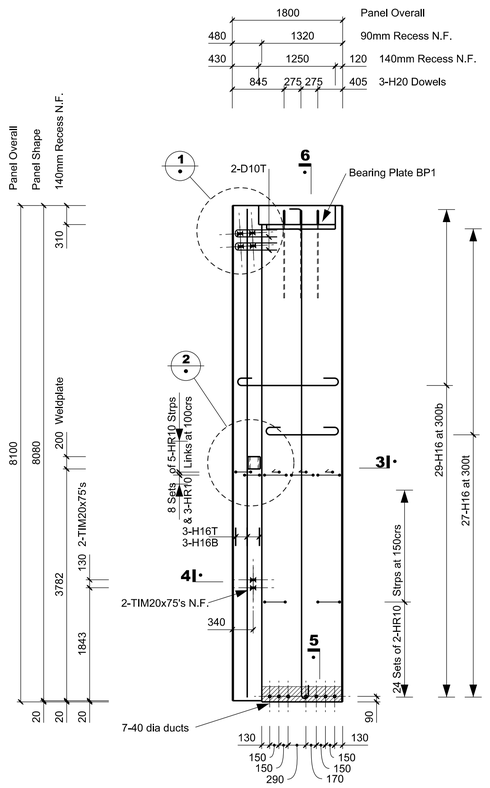
SCALES AT A1	FILE	DRAWING No.	ISSUE
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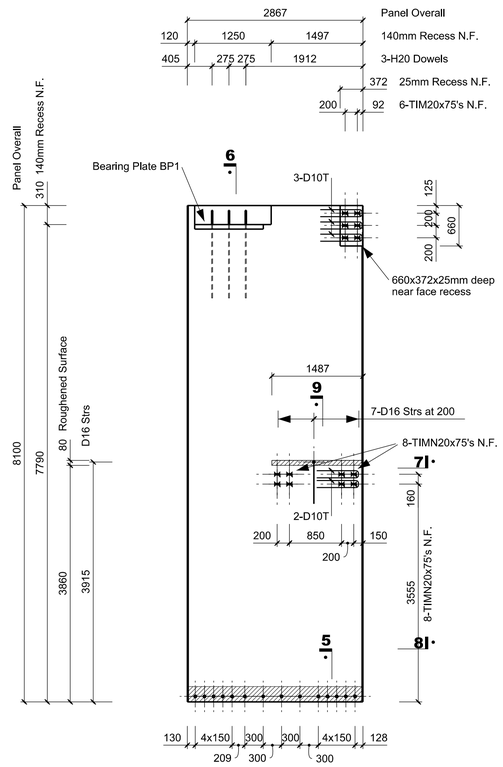






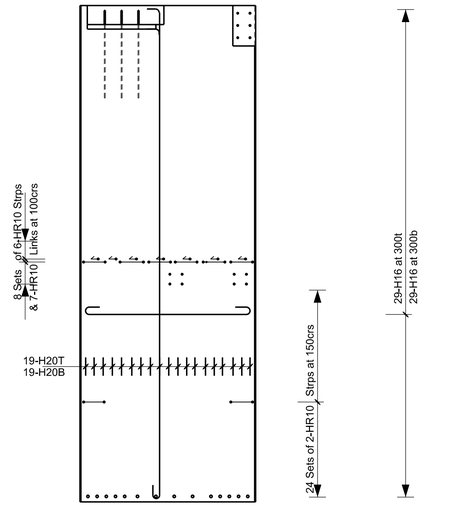
PANEL 19

Thickness	240 mm
Weight	7.57 tonne
Volume	3.09 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.

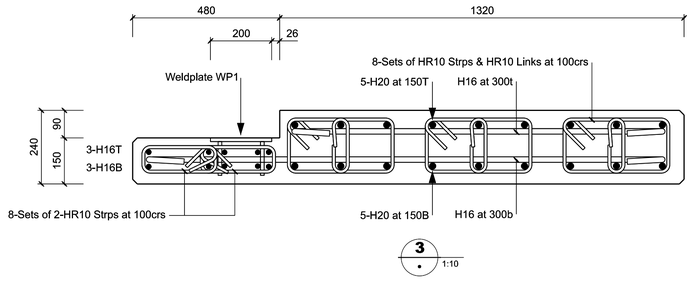


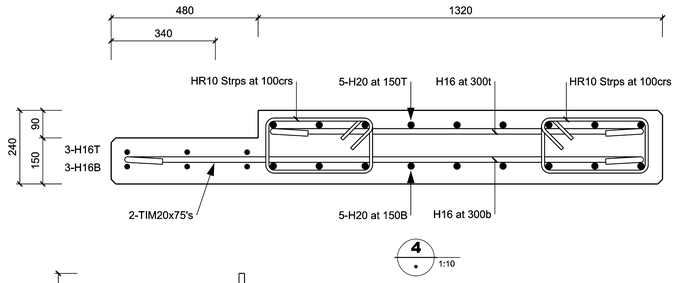
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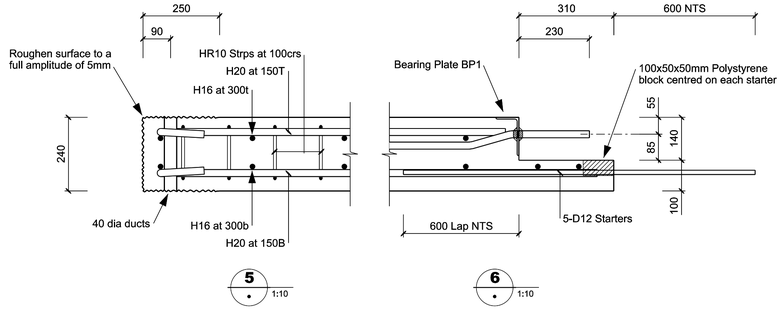
Thickness	240 mm
Weight	13.48 tonne
Volume	5.50 cu. m
Conc. Strength	35 MPa
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Bottom Cover	40 mm Min.

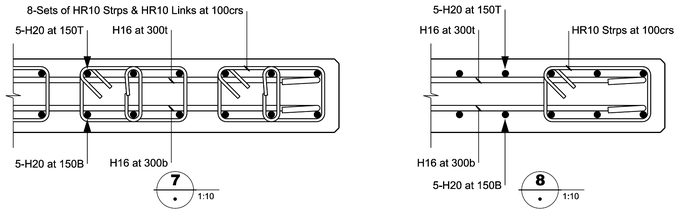


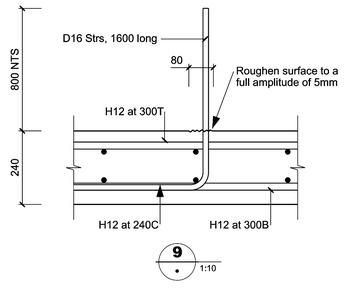
PANEL 20 - REINFORCING ONLY











Refer to Sheet S2-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

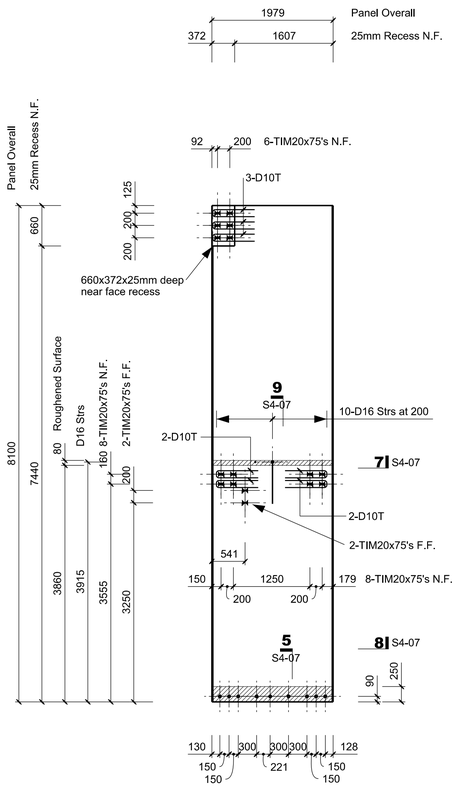
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DWG CHECK:	CM	25-05-2022

DRAWING TITLE: PRECAST CONCRETE WINDOW FRAME COLUMNS 1 & 2

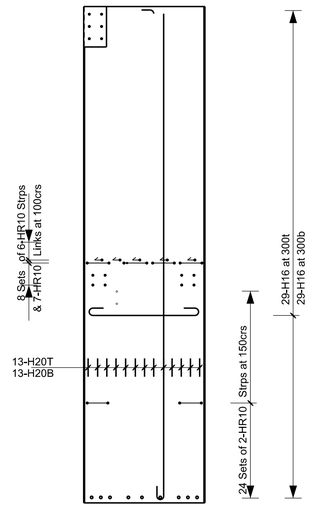
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PANEL 21	
Thickness	240 mm
Weight	9.46 tonne
Volume	3.84 cu. m
Conc. Strength	35 MPa
Top Cover	25 mm Min.
Bottom Cover	40 mm Min.



PANEL 21 - REINFORCING ONLY

Refer to Sheet S2-01 for Notes

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PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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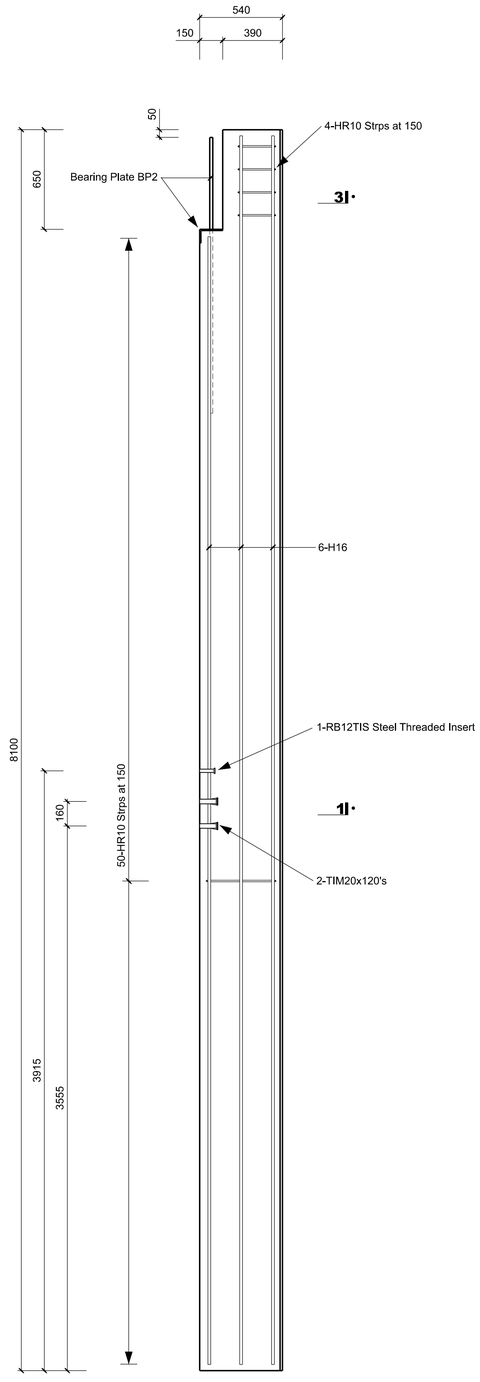
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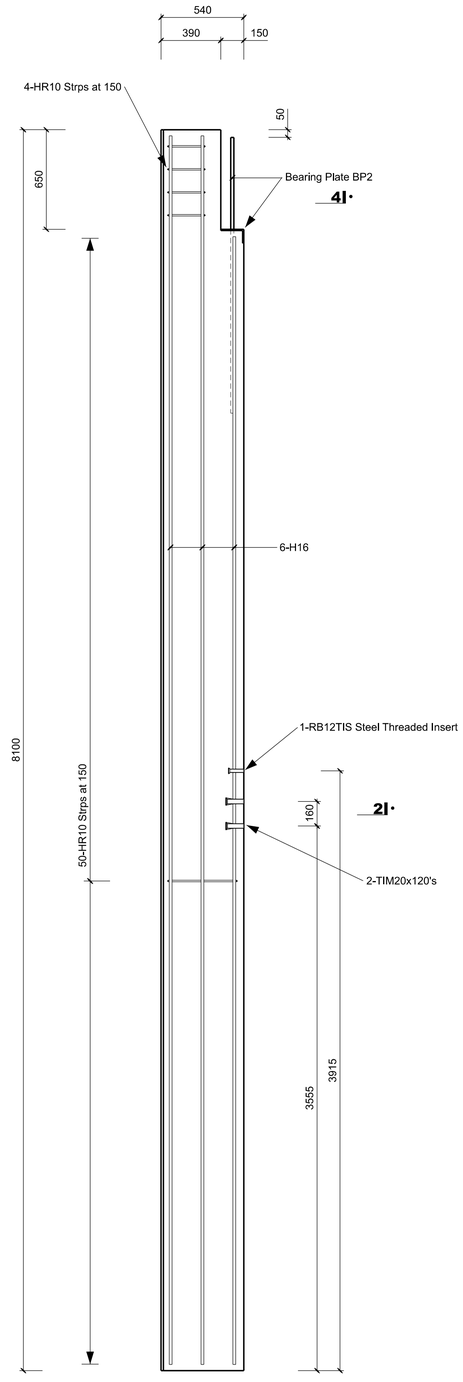
DRAWING TITLE: PRECAST CONCRETE ROOF PANEL & WINDOW LINTEL

SCALES AT A1	FILE	DRAWING No.	ISSUE
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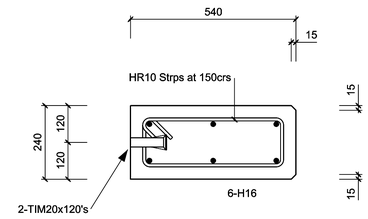
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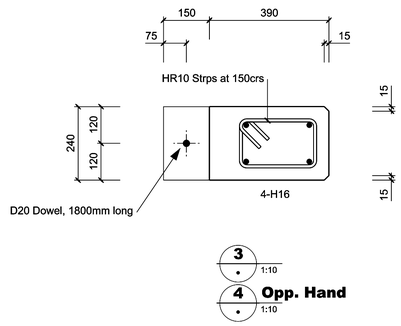


WINDOW FRAME COLUMN 1	
Weight	2.50 tonne
Volume	1.02 cu. m
Conc. Strength	35 MPa
Cover	40 mm Min.

WINDOW FRAME COLUMN 2	
Weight	2.50 tonne
Volume	1.02 cu. m
Conc. Strength	35 MPa
Cover	40 mm Min.



1 1:10
2 Opp. Hand 1:10



3 1:10
4 Opp. Hand 1:10

Refer to Sheet S2-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

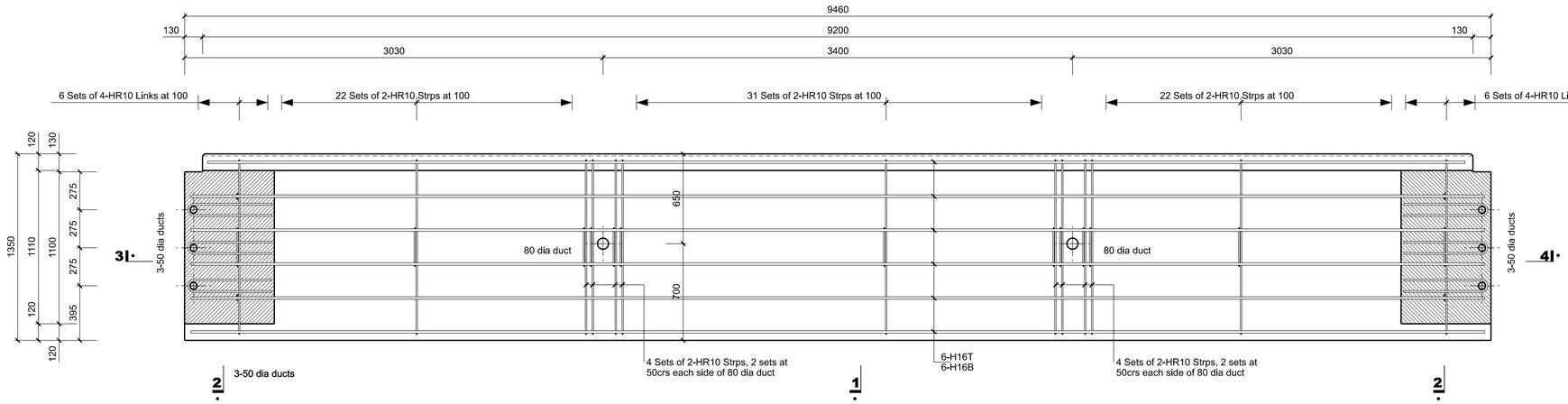
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DRAWING TITLE: PRECAST CONCRETE WINDOW FRAME COLUMNS

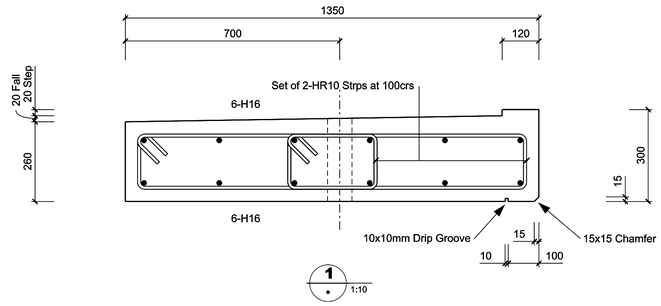
SCALES AT A1	FILE	DRAWING No.	ISSUE
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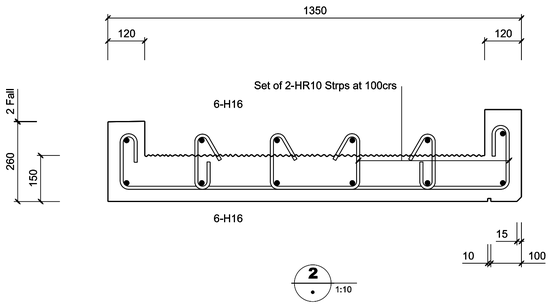
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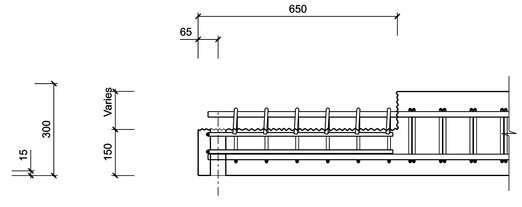
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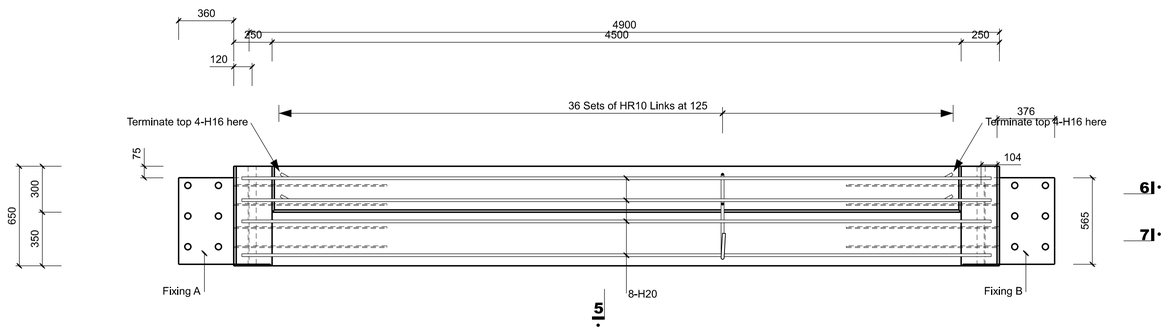


WINDOW LINTEL	
Weight	8.06 tonne
Volume	3.29 cu. m
Conc. Strength	35 MPa
Cover	40 mm Min.

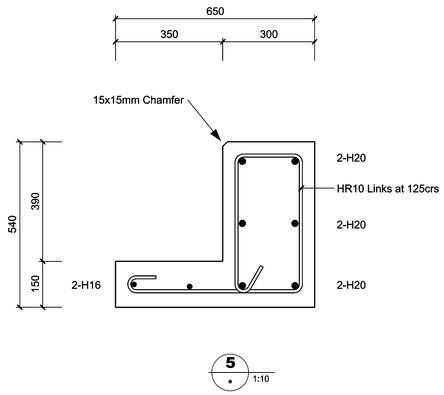


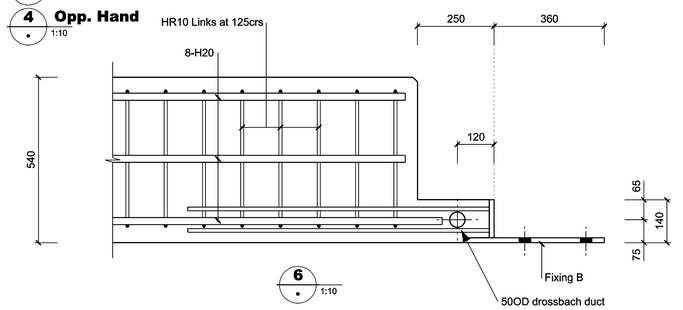


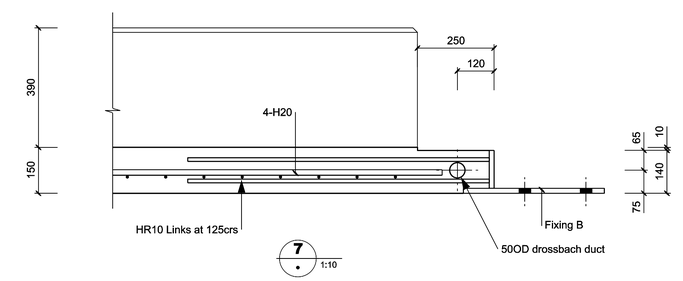




WINDOW FRAME LINTEL	
Weight	2.47 tonne
Volume	1.01 cu. m
Conc. Strength	35 MPa
Cover	40 mm Min.







Refer to Sheet S2-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

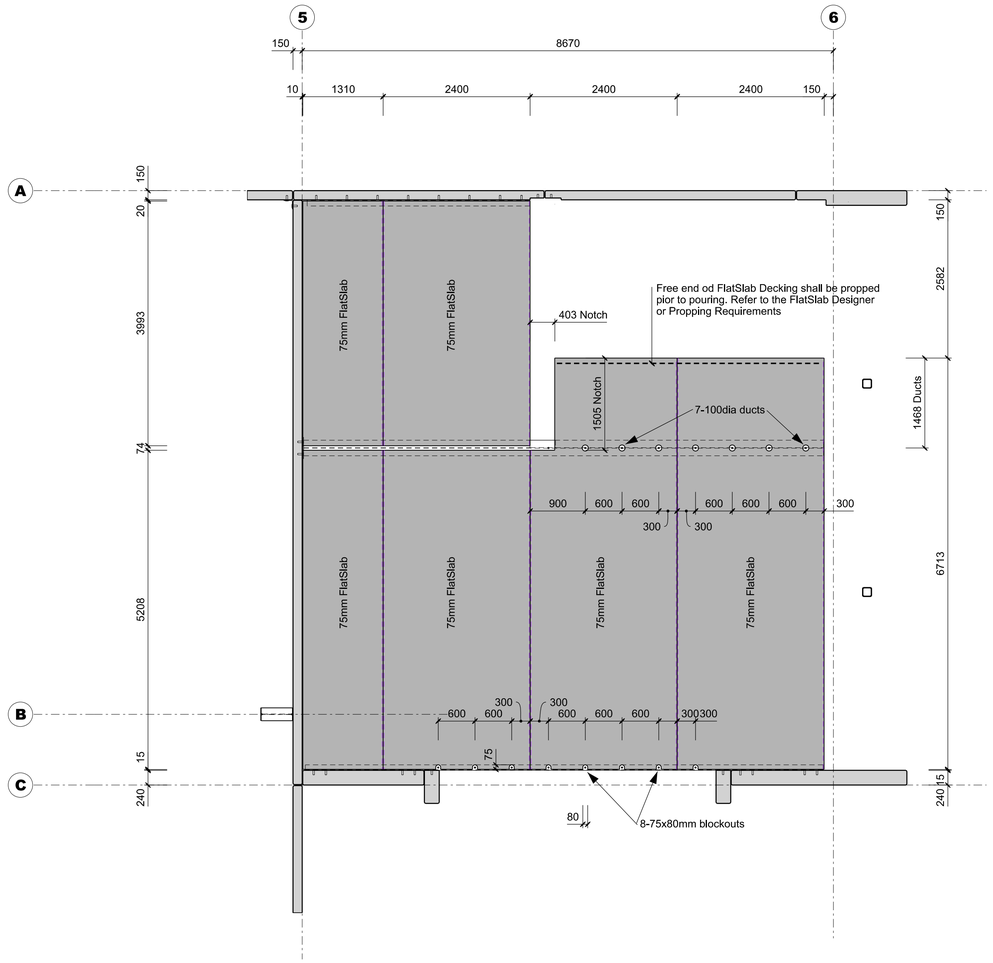
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DRAWING TITLE: PRECAST CONCRETE ROOF PANEL & WINDOW FRAME LINTEL

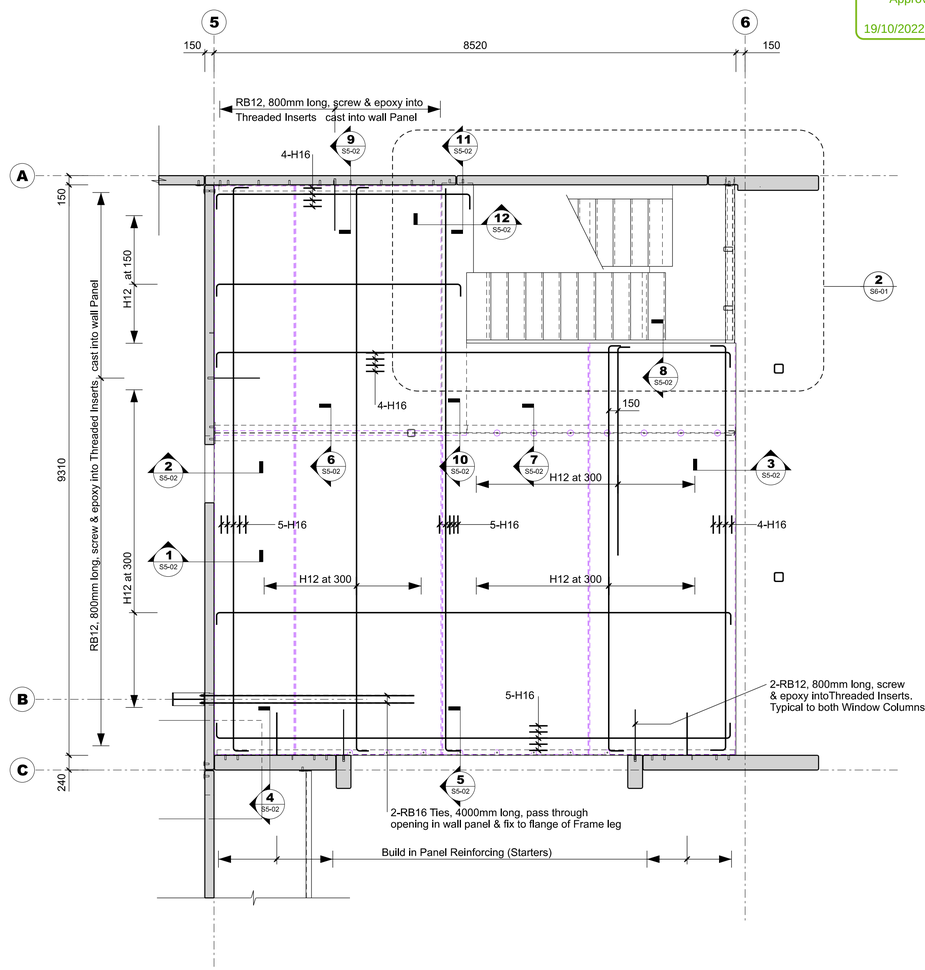
SCALES AT A1	FILE	DRAWING No.	ISSUE
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1 S5-01 **Suspended Floor Plan - Units only**
1:50



2 S5-01 **Suspended Floor Plan**
1:50

NOTES

Contractor to verify all dimensions on site BEFORE commencing works.

All materials and workmanship to comply with the New Zealand Building Code.

These drawings to be read in conjunction with the Architectural drawings.

Refer to Architects drawings for all nibs, holes, rebates etc.

Use Stahlton 75mm Flat Slab flooring system with 90mm cast insitu topping where shown.

All Stahlton Flat Slab seating onto concrete or block masonry shall be seated on a 50mm wide McDowell Bearing Strip.

Where precast units are designed to be installed with a precamber, topping concrete is to be cast with a matching precamber.

The floor system is to be designed by the Manufacturer.

Design parameters are as follows:
Loads: Live load 3.0kPa
Superimposed dead load 1.0kPa

Fire Rating: 60/60/60

Deflection: Maximum precamber 10mm
Maximum long term deflection 10mm
(Less allowance for precamber)

All flooring systems to be propped in accordance with manufacturers specifications. Floor is to be propped as required to achieve falls noted.

Refer to Specification for topping concrete strength and nominal concrete slump requirements.

The Contractor is hereby advised that it is dangerous to change or delete structural elements without the specific written approval of the Engineer.
No penetration shall be castin or cut in without written approval of the Engineer unless noted on these structural drawings.

All penetrations in the topping slab shall be castin. Core drilling of penetrations through the concrete topping is generally not acceptable.

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PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

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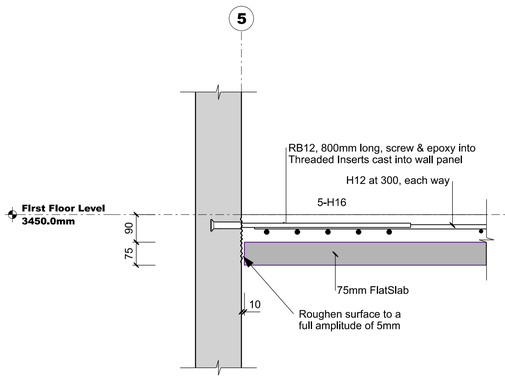
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DRAWING TITLE: SUSPENDED FLOOR PLAN

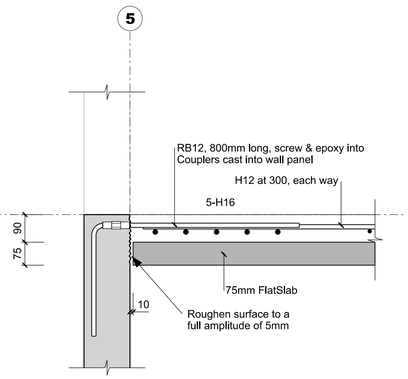
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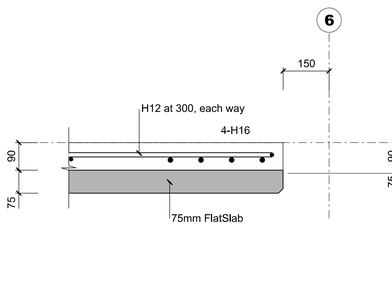
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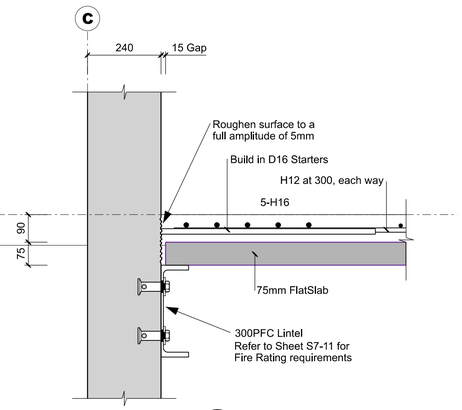
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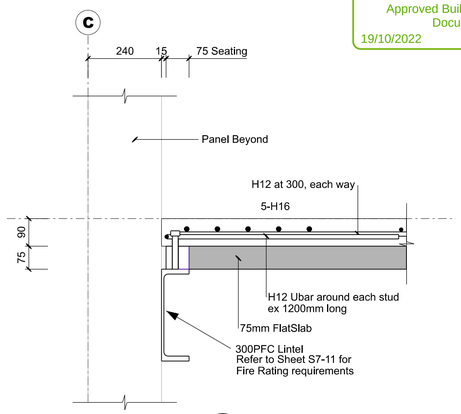
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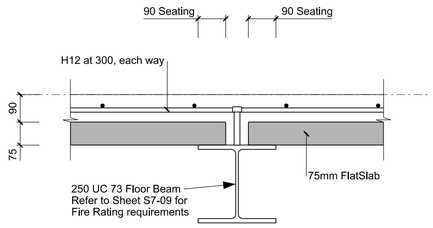
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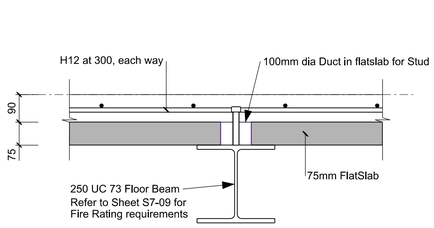
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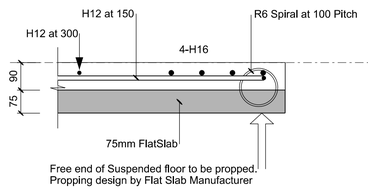
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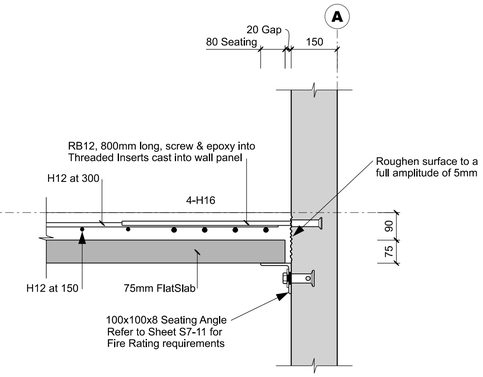
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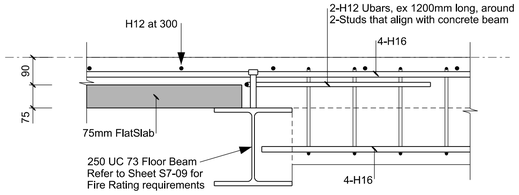
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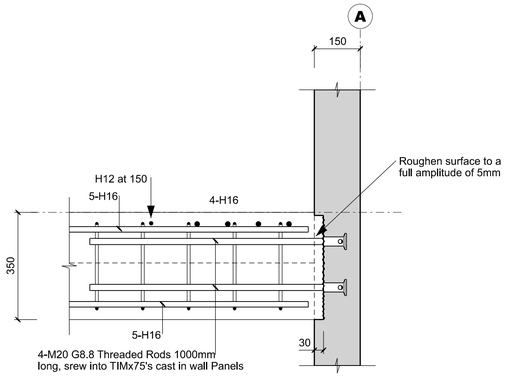
8 S5-01 1:10



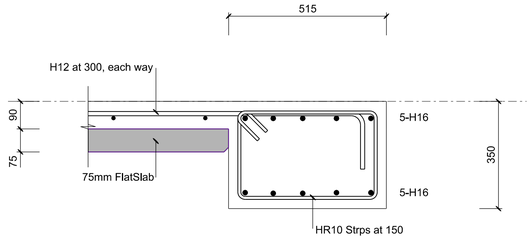
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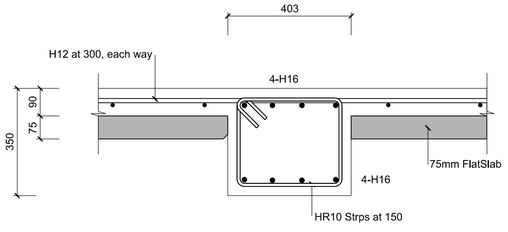
10 S5-01 1:10



11 S5-01 1:10



12 S5-01 1:10



13 S5-01 1:10

Refer to Sheet S5-01 for Notes

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PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

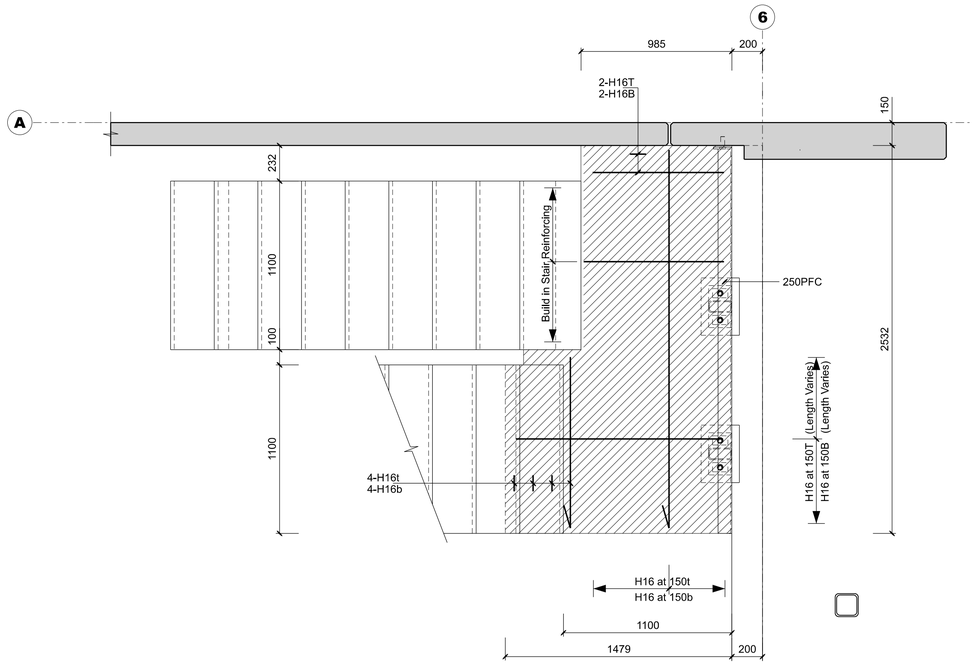
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DRAWING TITLE: SUSPENDED FLOOR DETAILS

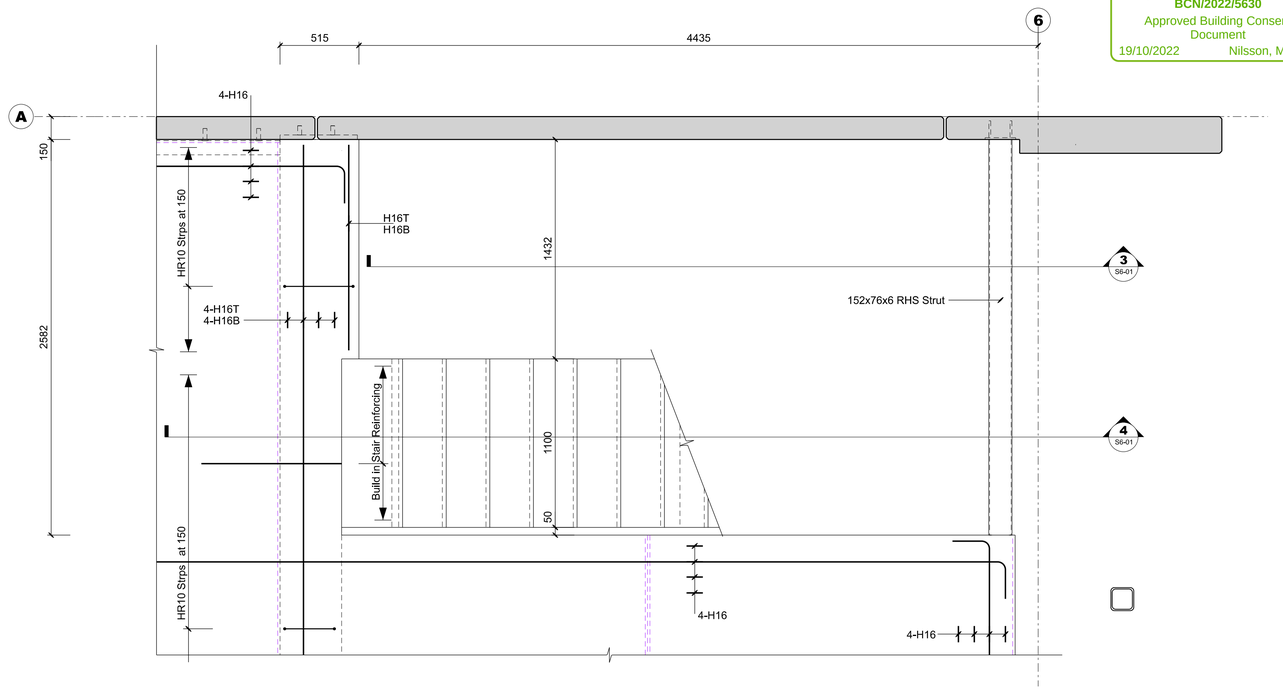
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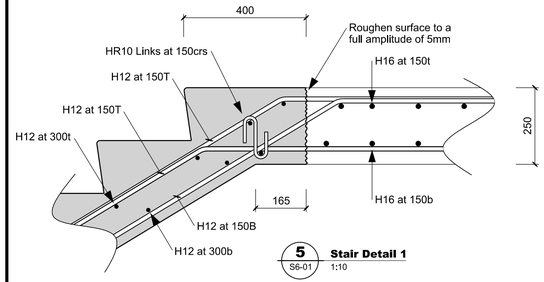
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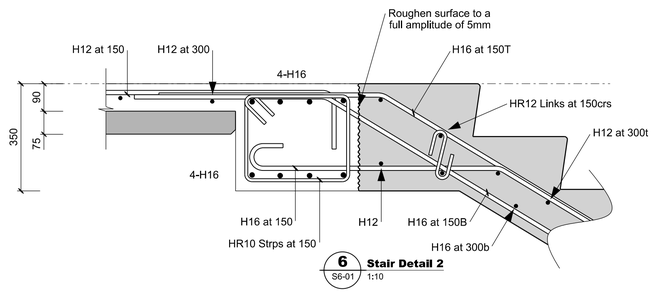
1 S6-01 Stair Plan - Ground Floor Level 1:20



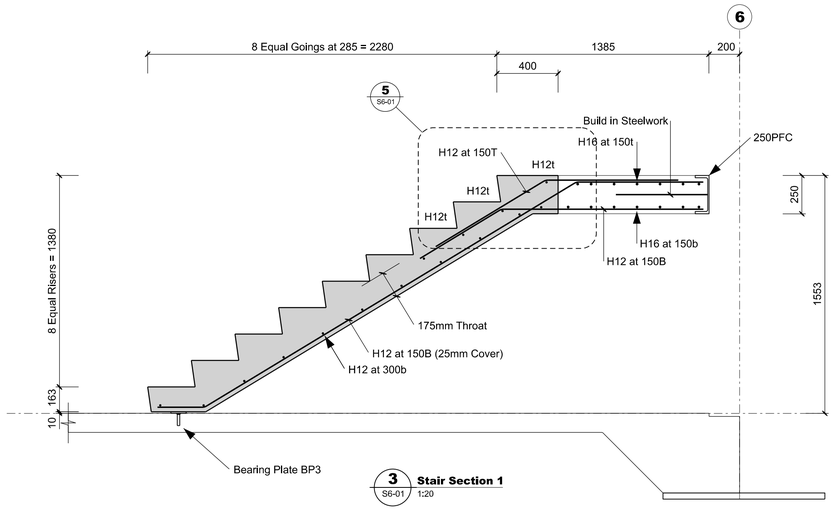
2 S6-01 Stair Plan - First Level 1:20



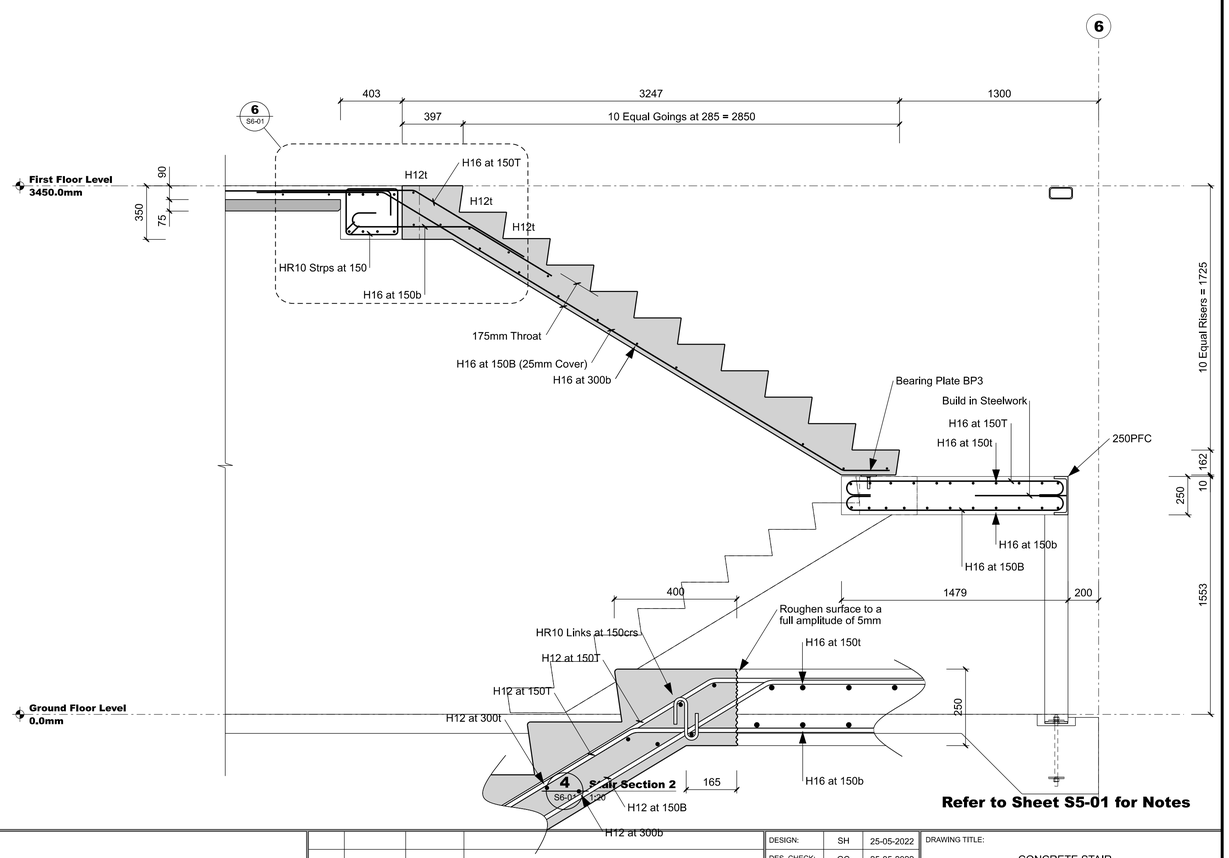
5 S6-01 Stair Detail 1 1:10



6 S6-01 Stair Detail 2 1:10



3 S6-01 Stair Section 1 1:20



Refer to Sheet S5-01 for Notes

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CLIENT: ZEAL CONSTRUCTION LTD

PROJECT: DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

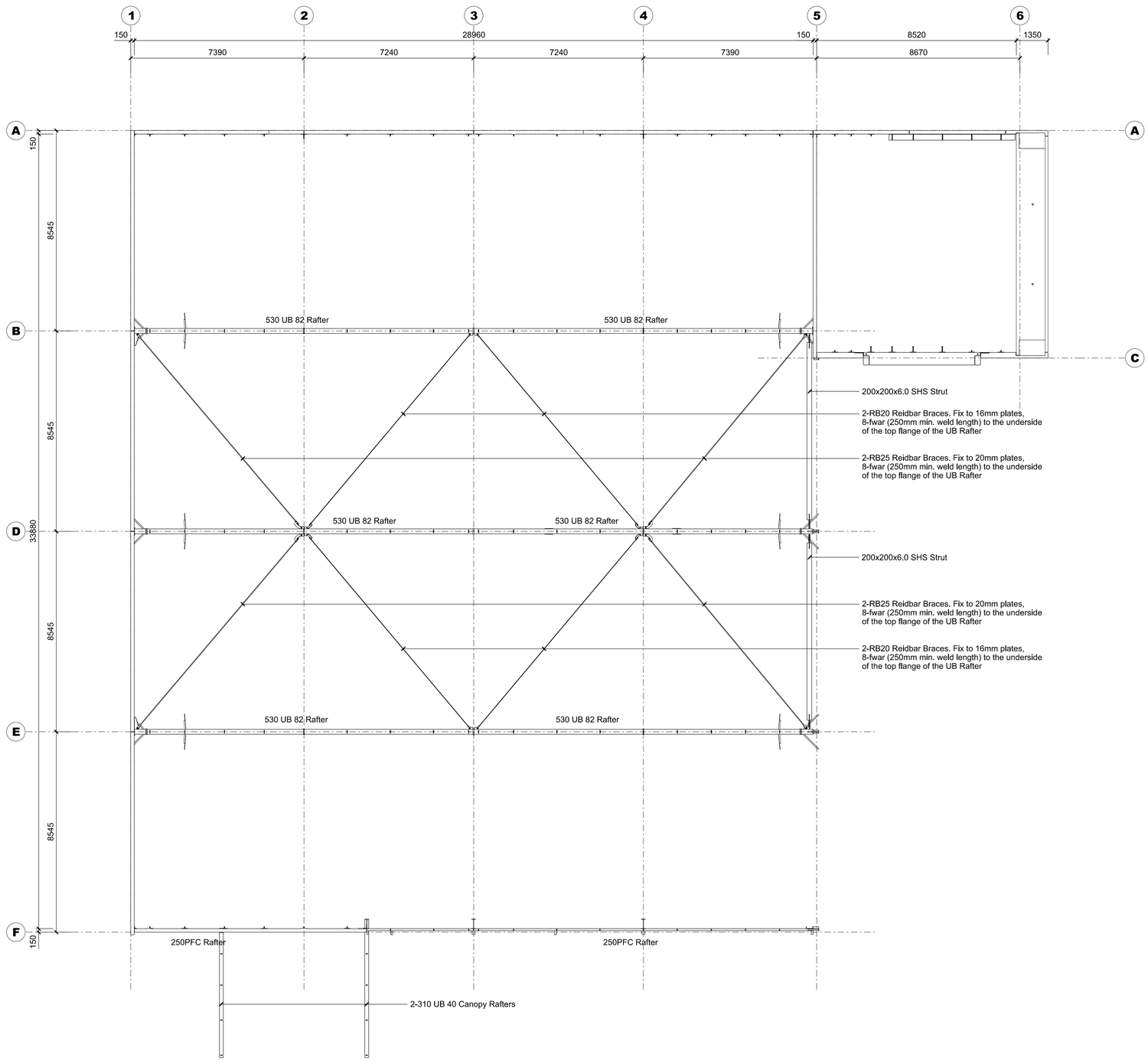
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DES. CHECK:	GC	25-05-2022
DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: CONCRETE STAIR

SCALES AT A1	FILE	DRAWING No.	ISSUE
1:20	E1823	S6-01	1

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1 S7-01 **Steelwork Location Plan**
1:100

NOTES

Contractor to verify all dimensions on site BEFORE fabrication of Steelwork.

All materials and workmanship to comply with the New Zealand Building Code.

Contractor to determine purlin lengths on site BEFORE ordering.

All purlins to be rolled from galvanised 500MPa steel. Zinc coating mass shall be 275g/sqm for internal purlins and 450g/sqm for purlins exposed to weather.

All holes in purlins to be 14dia punched unless noted otherwise on the drawings.

HST Speed Channel Bracket purlin braces to be installed in accordance with the manufacturers written instructions.

Contractor is to allow to build member lengths to detailed precamber.

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

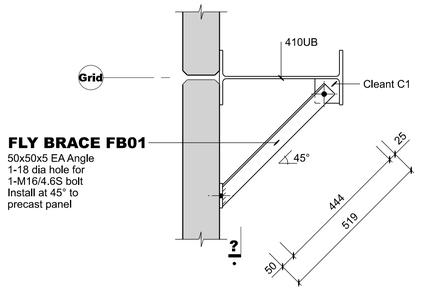
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DWG CHECK:	CM	25-05-2022

DRAWING TITLE: STEELWORK LOCATION PLAN

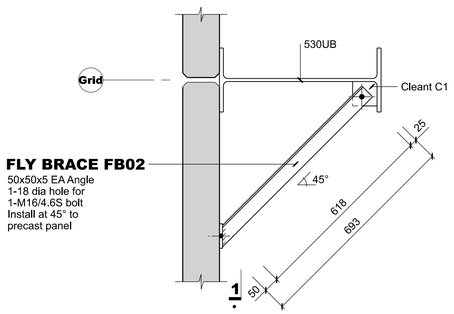
SCALES AT A1	FILE	DRAWING No.	ISSUE
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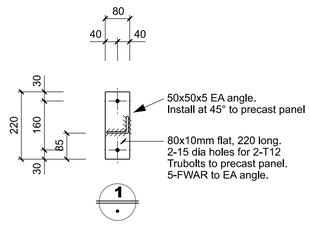
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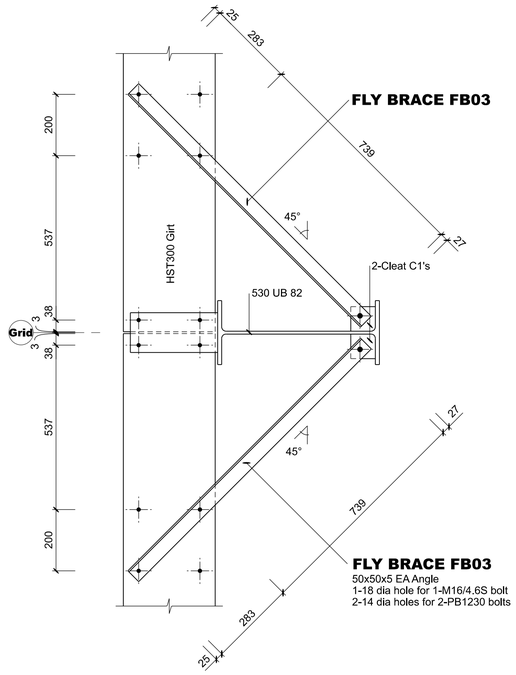


FLY BRACE FB01
50x50x5 EA Angle
1-18 dia hole for
1-M16/4.6S bolt
Install at 45° to
precast panel

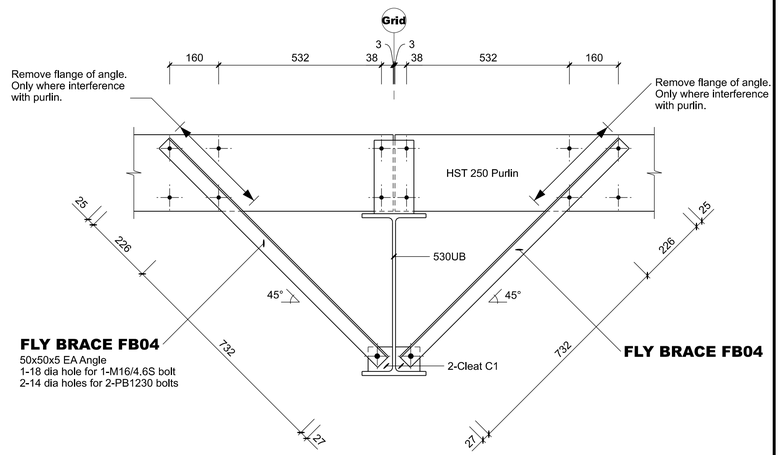


FLY BRACE FB02
50x50x5 EA Angle
1-18 dia hole for
1-M16/4.6S bolt
Install at 45° to
precast panel





FLY BRACE FB03
50x50x5 EA Angle
1-18 dia hole for 1-M16/4.6S bolt
2-14 dia holes for 2-PB1230 bolts



FLY BRACE FB04
50x50x5 EA Angle
1-18 dia hole for 1-M16/4.6S bolt
2-14 dia holes for 2-PB1230 bolts

FLY BRACE FB04

Refer to Sheet S7-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

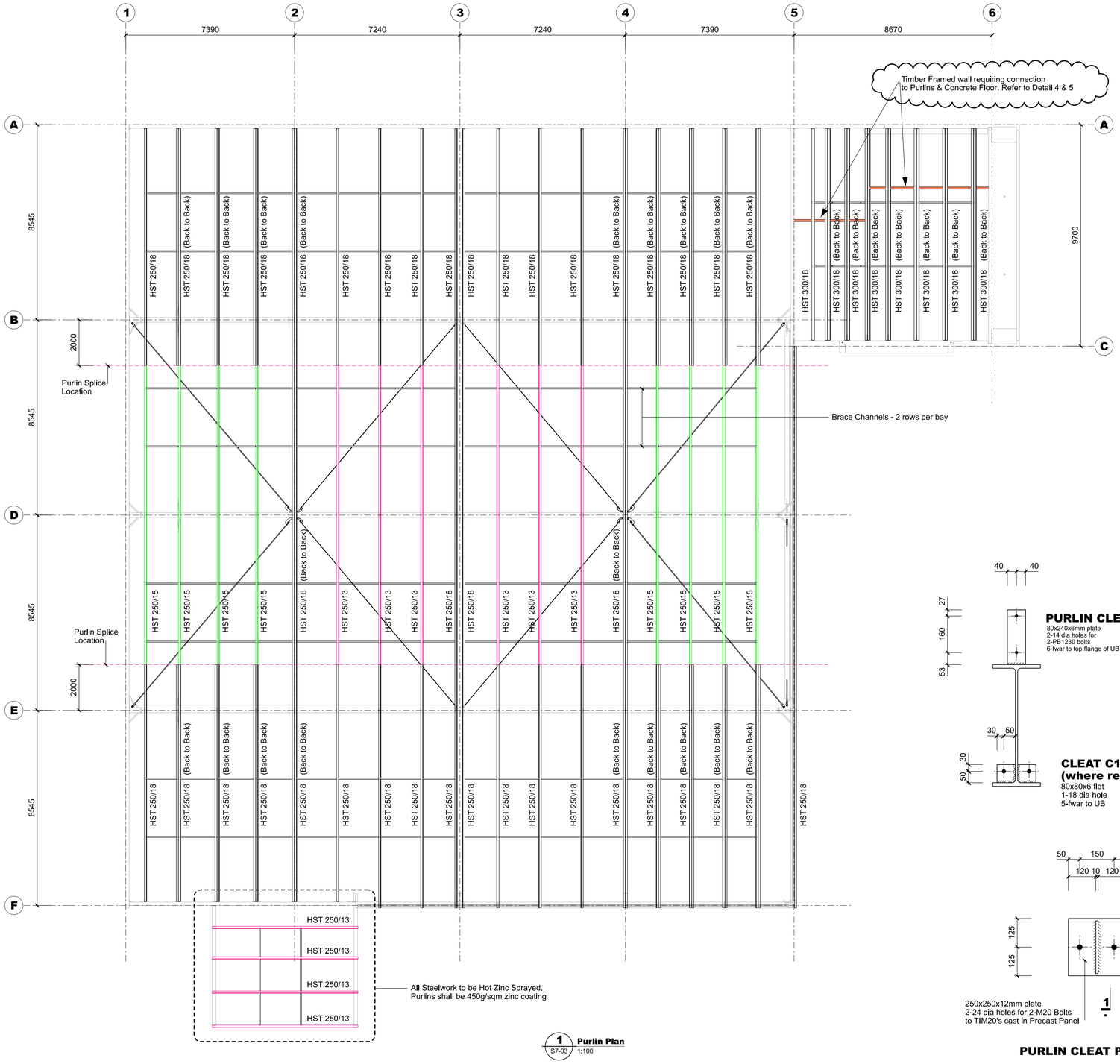
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DRAWING TITLE: STEELWORK DETAILS

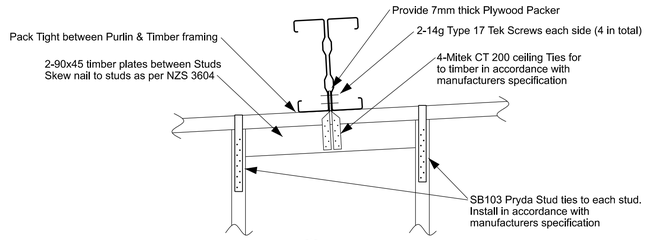
SCALES AT A1	FILE	DRAWING No.	ISSUE
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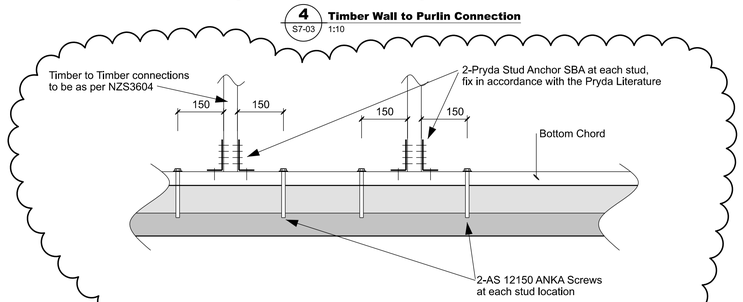
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19/10/2022 Nilsson, Michael



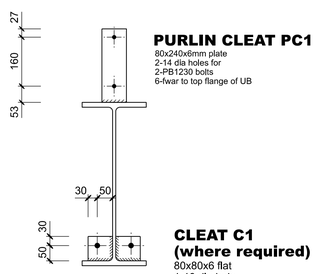
1 Purlin Plan S7-03 1:100



4 Timber Wall to Purlin Connection S7-03 1:10

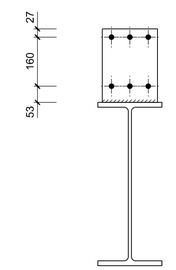


5 Timber Wall to Concrete Floor Connection S7-03 1:10

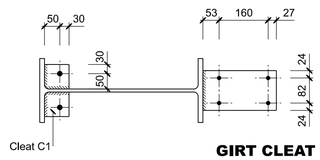


PURLIN CLEAT PC1
80x240x6mm plate
2-14 dia holes for
2-PB1230 bolts
6-fwar to top flange of UB

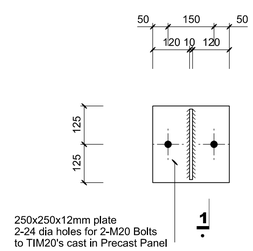
CLEAT C1 (where required)
80x80x6 flat
1-18 dia hole
5-fwar to UB



PURLIN CLEAT PC2
180x240x10mm plate
6-18 dia holes for
6-PB1640 bolts
6-fwar to top flange of UB

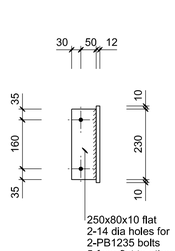


GIRT CLEAT GC1
240x130x10 flat
4-14 dia holes for
4-PB1235 bolts
6-fwar flat to UB



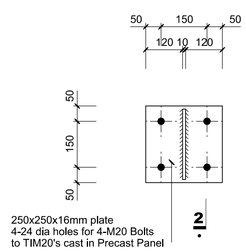
250x250x12mm plate
2-24 dia holes for 2-M20 Bolts
to TIM20's cast in Precast Panel

PURLIN CLEAT PC3



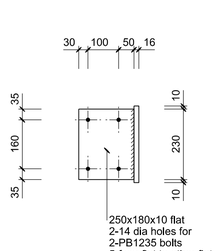
250x80x10 flat
2-14 dia holes for
2-PB1235 bolts
5-fwar flat to other flat

1 1:10



250x250x16mm plate
4-24 dia holes for 4-M20 Bolts
to TIM20's cast in Precast Panel

PURLIN CLEAT PC4



250x180x10 flat
2-14 dia holes for
2-PB1235 bolts
5-fwar flat to other flat

2 1:10

Refer to Sheet S7-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

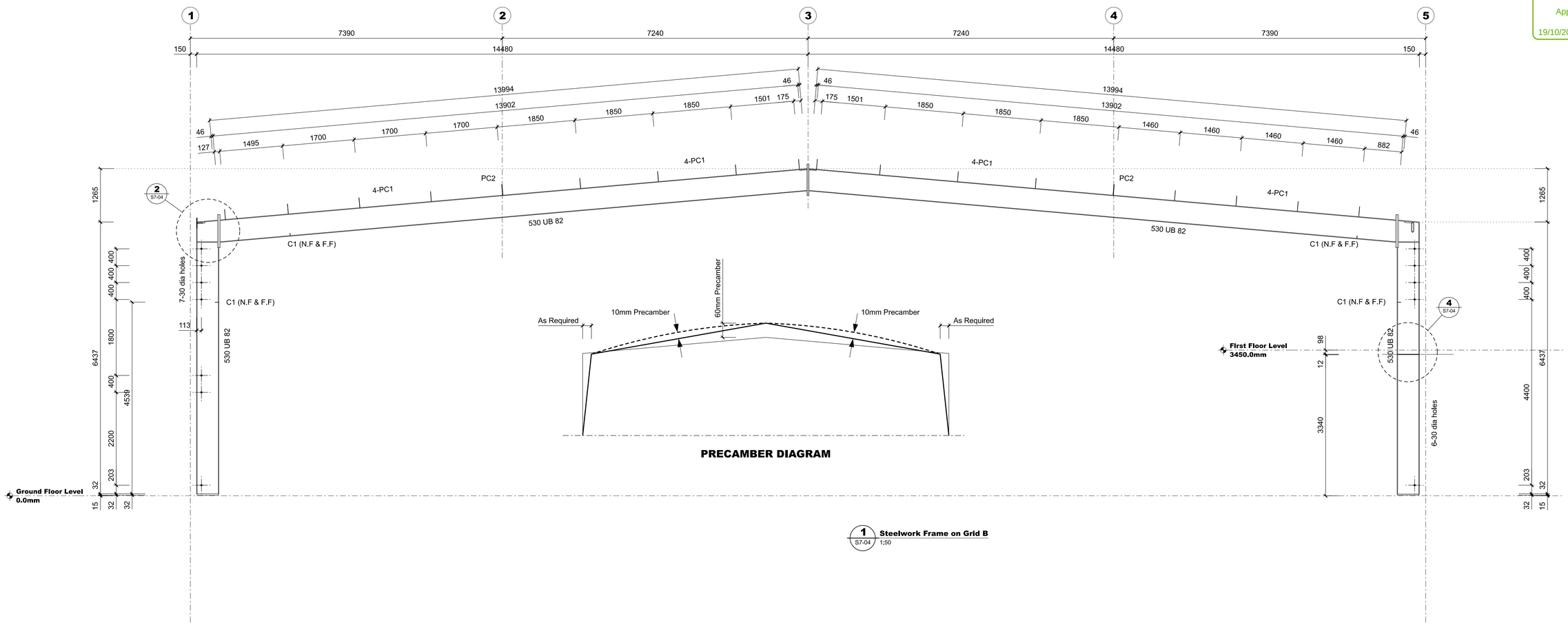
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DRAWING TITLE: STEELWORK LOCATION PLAN

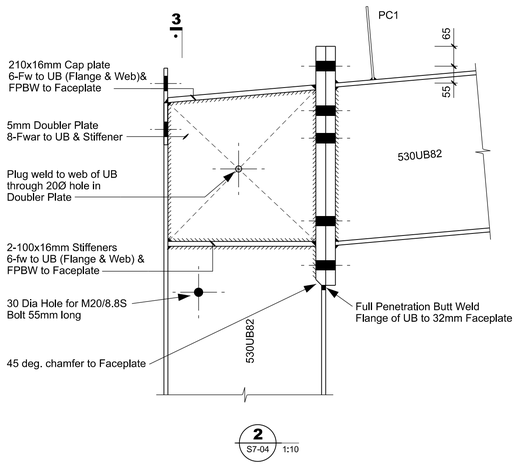
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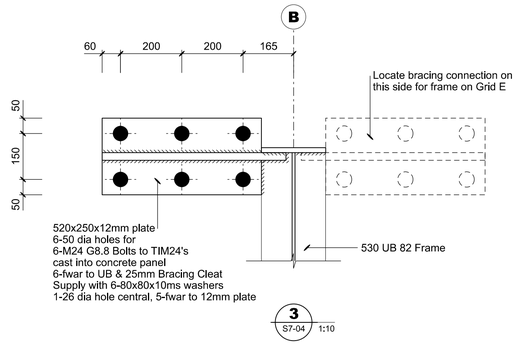
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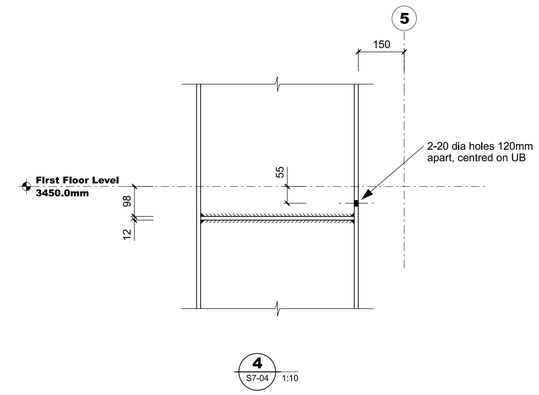
1 S7-04 **Steelwork Frame on Grid B** 1:50



2 S7-04 1:10



3 S7-04 1:10



4 S7-04 1:10

Refer to Sheet S7-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

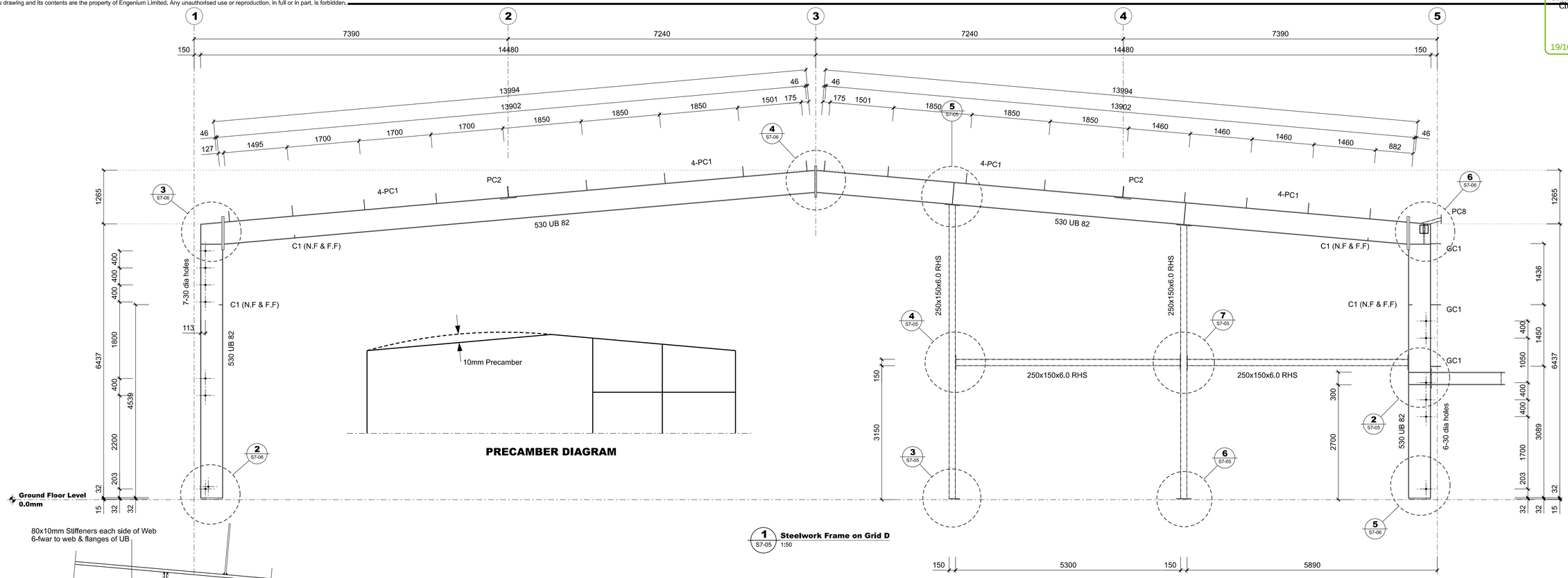
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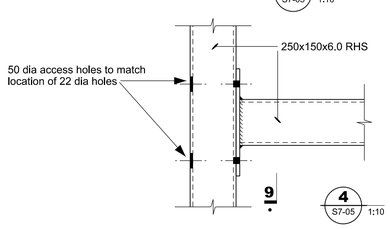
DRAWING TITLE: STEELWORK FRAME ON GRID B

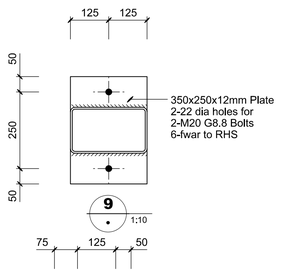
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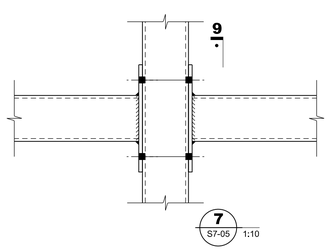
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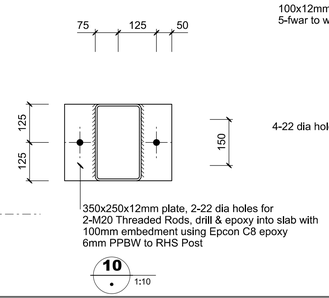
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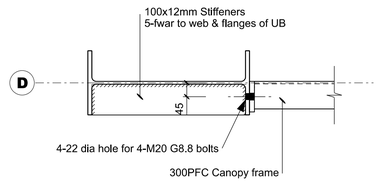


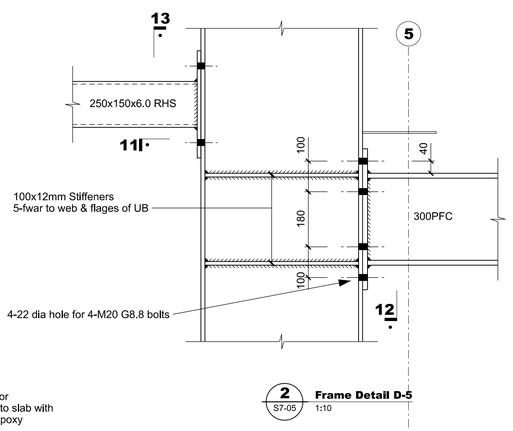


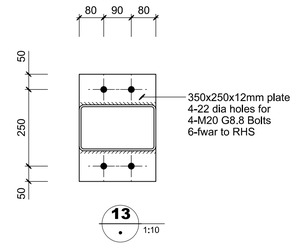


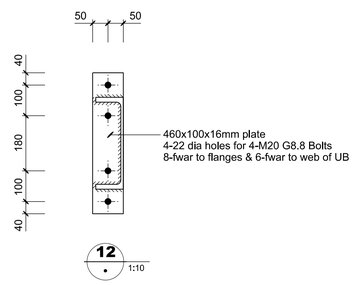












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CLIENT: ZEAL CONSTRUCTION LTD

PROJECT: DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

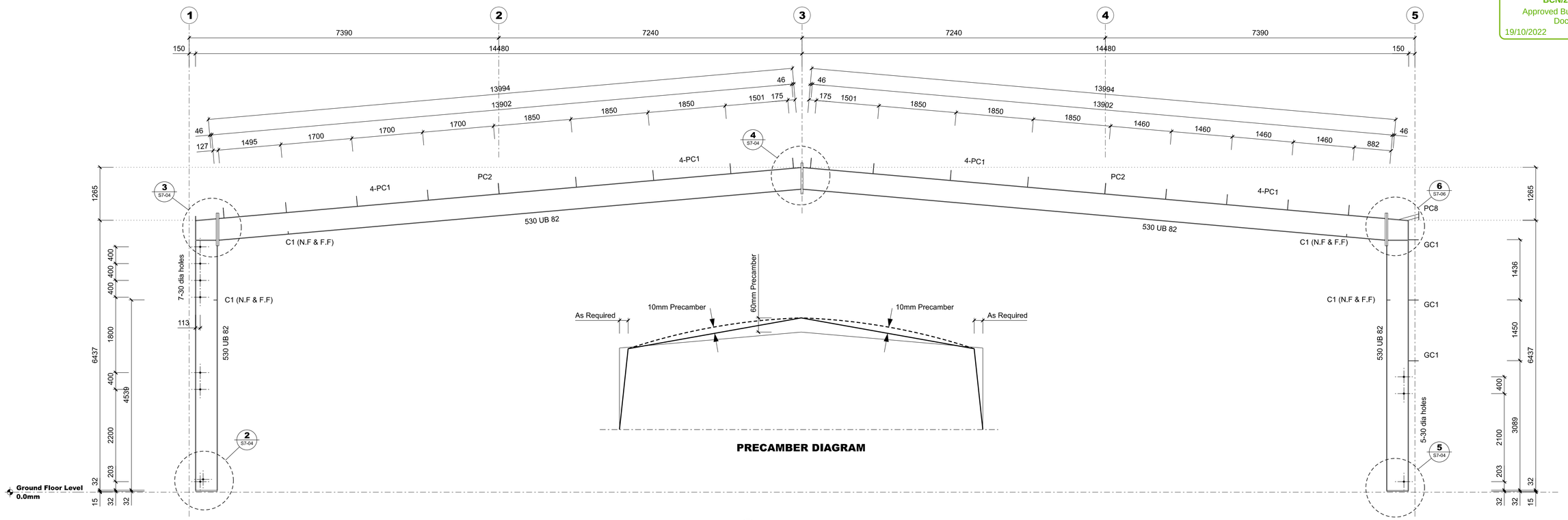
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DRAWING TITLE: STEELWORK FRAME ON GRID D

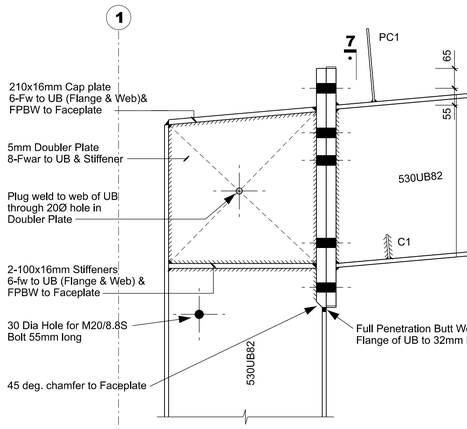
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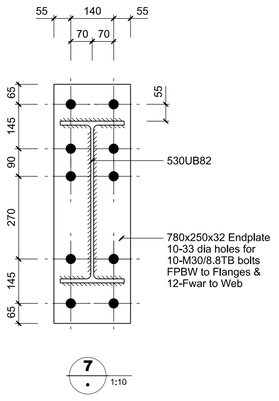
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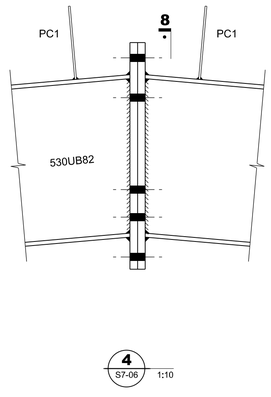


1 S7-06 **Steelwork Frame on Grid E** 1:50

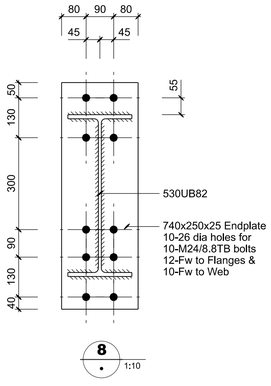




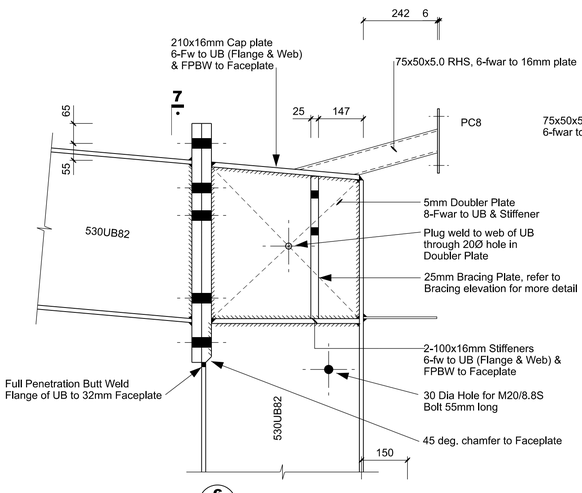
7 1:10



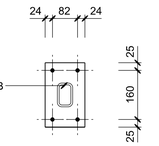
4 S7-06 1:10



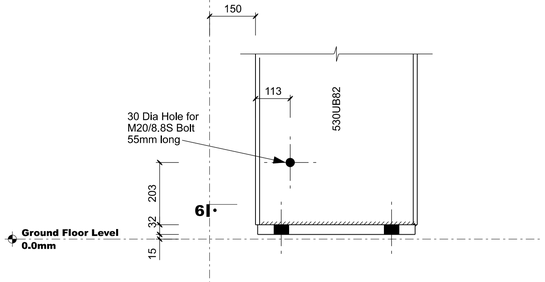
8 1:10

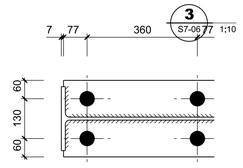


6 S7-06 1:10

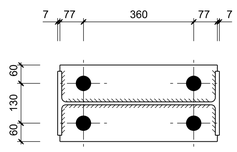


PURLIN CLEAT PC8
210x130x6 flat
4-14 dia holes for
4-PB1230 bolts
5-fwar to flat

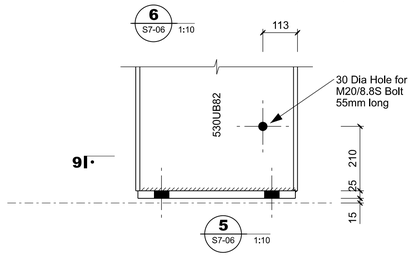




2 S7-06 1:10 **6** 1:10



9 1:10



5 S7-06 1:10

Refer to Sheet S7-01 for Notes

CLIENT:	ZEAL CONSTRUCTION LTD		
PROJECT:	DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH		

ISSUE	DATE	APPROVED	DESCRIPTION
1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

DESIGN:	SH	25-05-2022
DES. CHECK:	GC	25-05-2022
DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

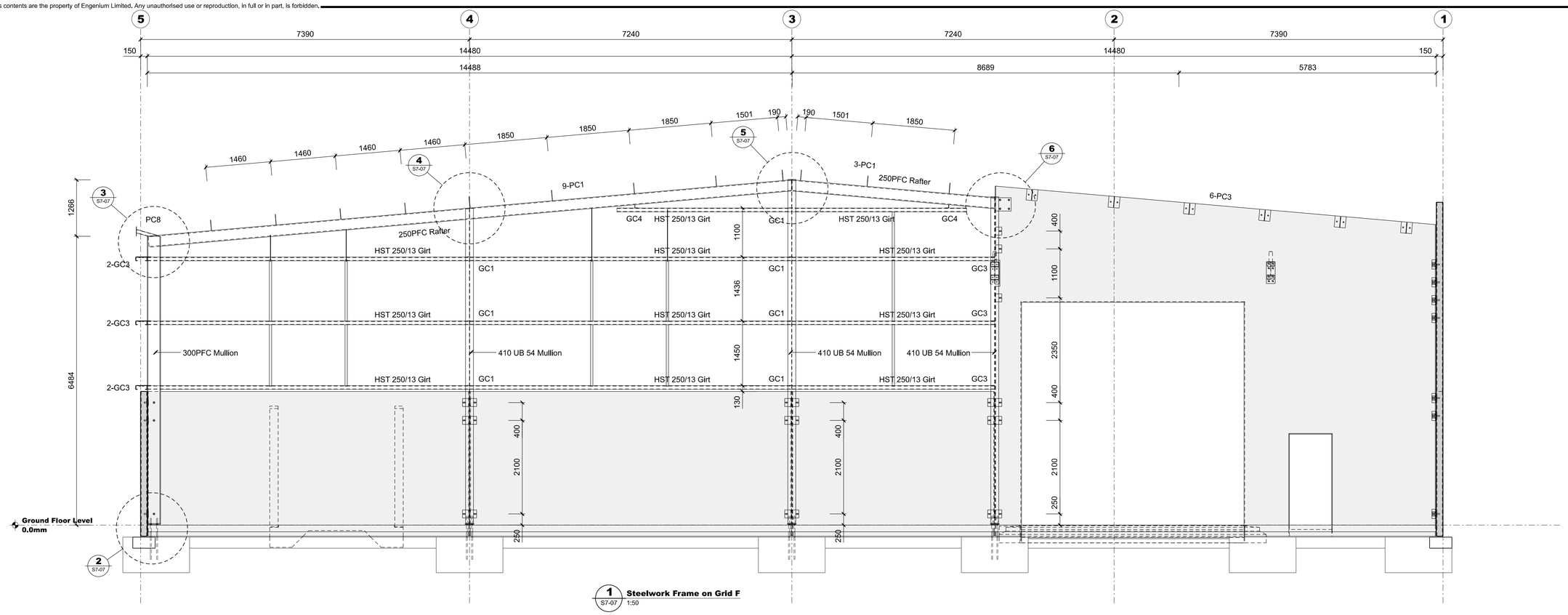
DRAWING TITLE: STEELWORK FRAME ON GRID E

SCALES AT A1	FILE	DRAWING No.	ISSUE
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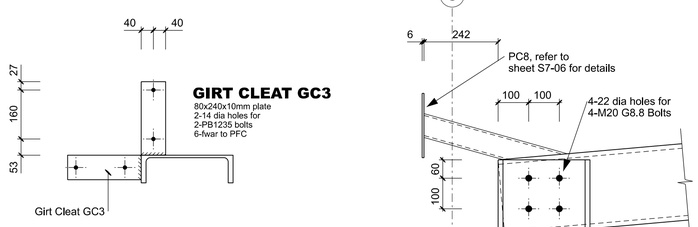
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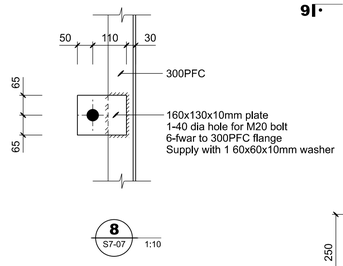
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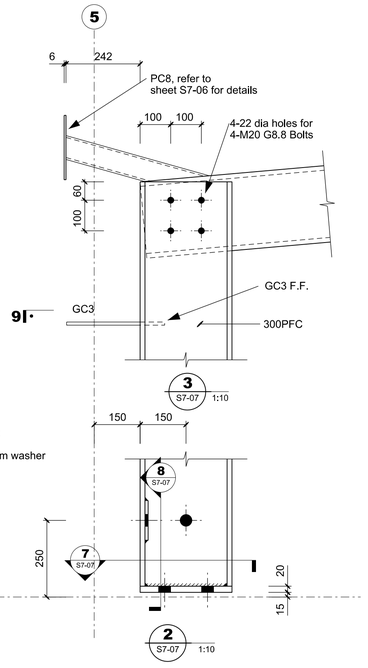
Christchurch City Council
BCN/2022/5630
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19/10/2022 Nilsson, Michael

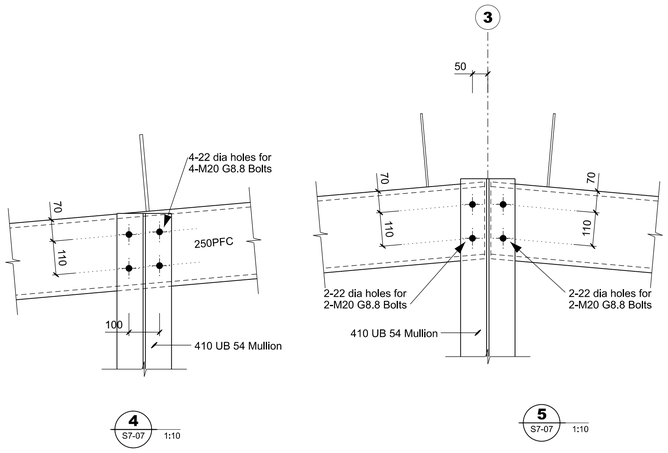


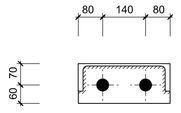
1 S7-07 Steelwork Frame on Grid F 1:50

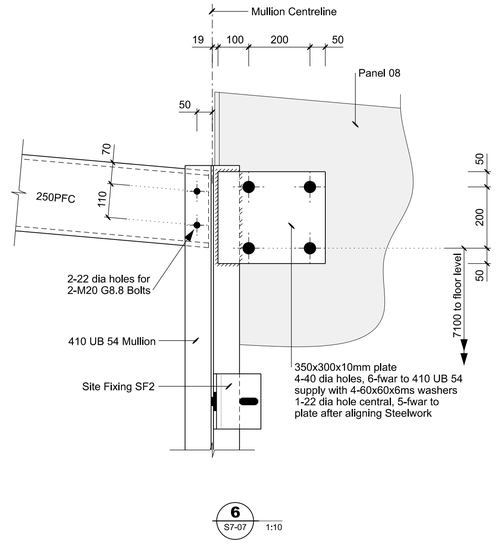


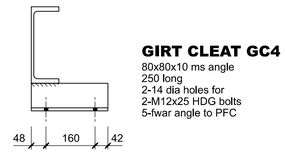












GIRT CLEAT GC4
80x80x10 ms angle
250 long
2-14 dia holes for
2-M12x25 HDG bolts
5-fwar angle to PFC

Refer to Sheet S7-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

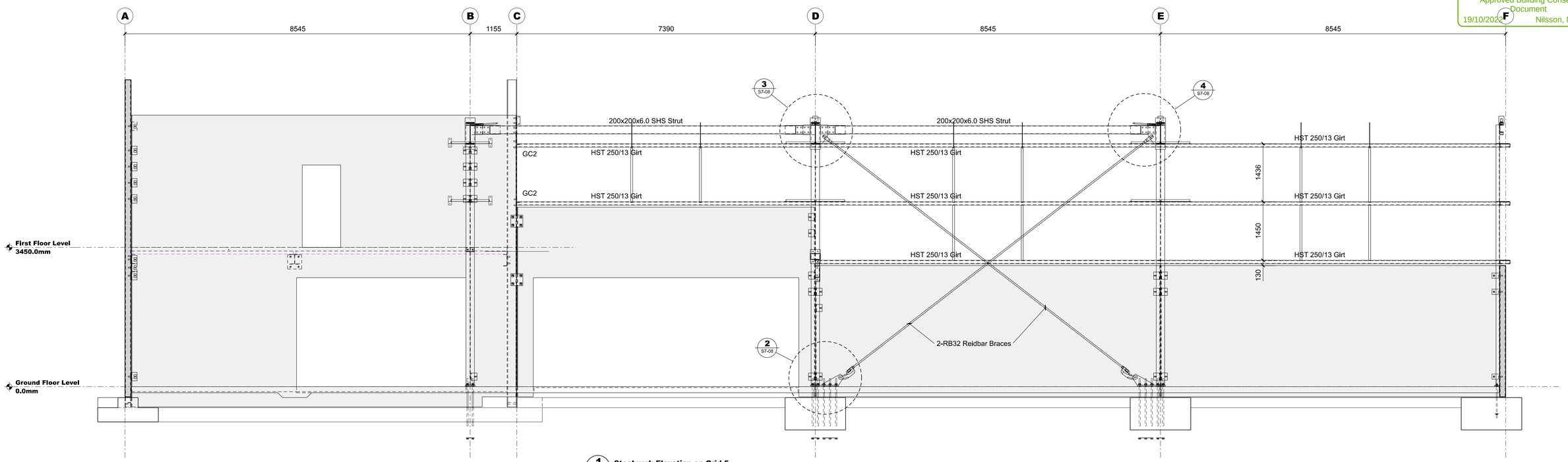
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DES. CHECK:	GC	25-05-2022
DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: STEELWOEK ELEVATION ON GRID F

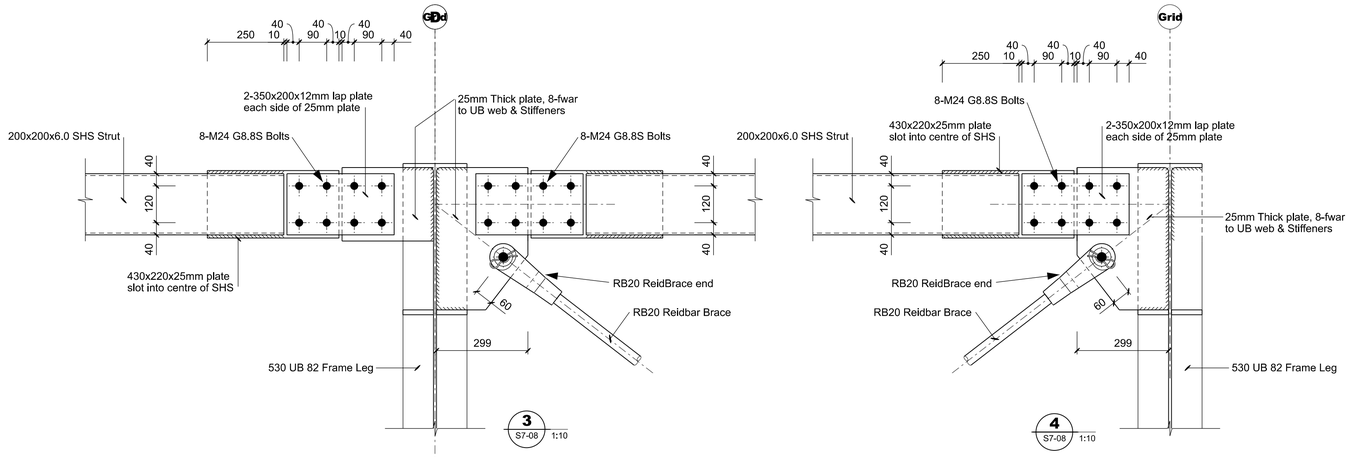
SCALES AT A1	FILE	DRAWING No.	ISSUE
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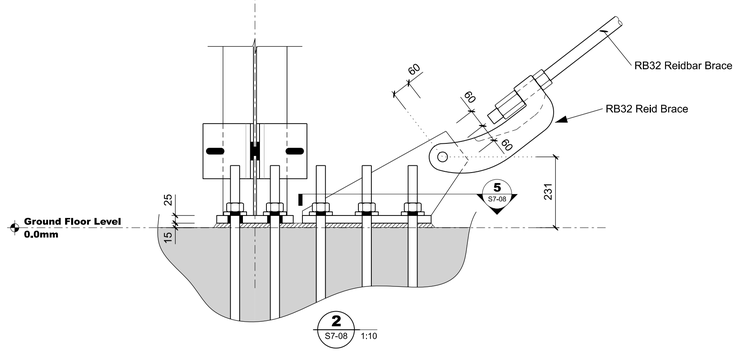
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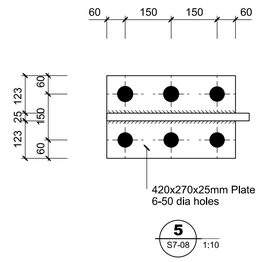
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19/10/2022 Nilsson, Michael

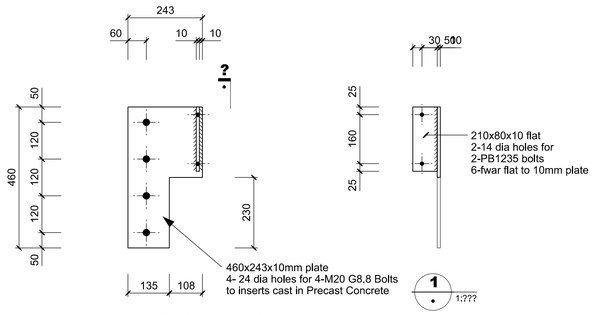


1 S7-08 **Steelwork Elevation on Grid 5** 1:50

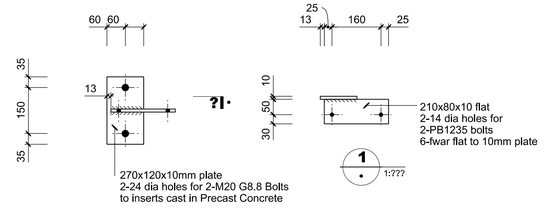








PURLIN CLEAT PC?



GIRT CLEAT GC2

Refer to Sheet S7-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

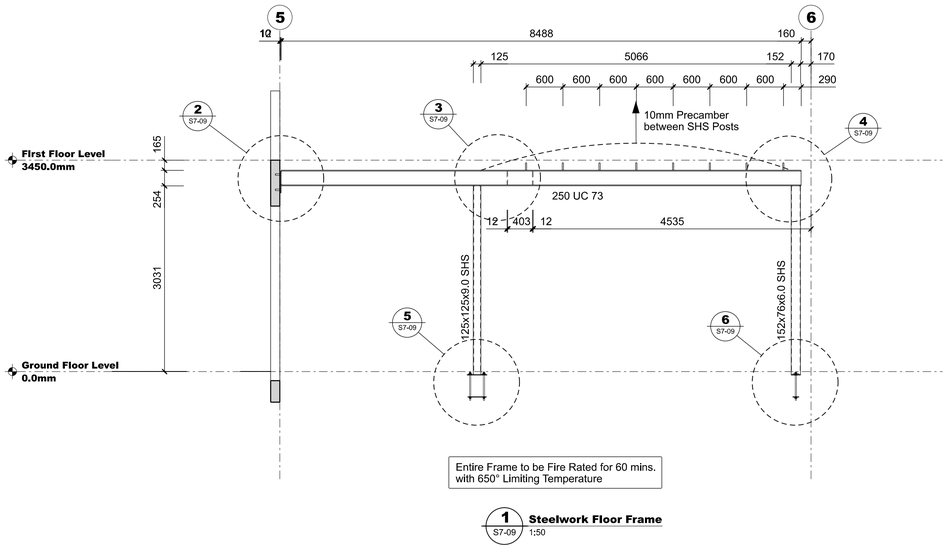
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DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: STEELWORK FRAME ON GRID 5

SCALES AT A1	FILE	DRAWING No.	ISSUE
1:50, 1:10	E1823	S7-08	1

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1 S7-09 Steelwork Floor Frame 1:50

9 S7-09 1:10

5 S7-09 1:10

6 S7-09 1:10

7 S7-09 1:10

8 S7-09 1:10

Refer to Sheet S7-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

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A	31-03-2022	GC	WORK IN PROGRESS ISSUE

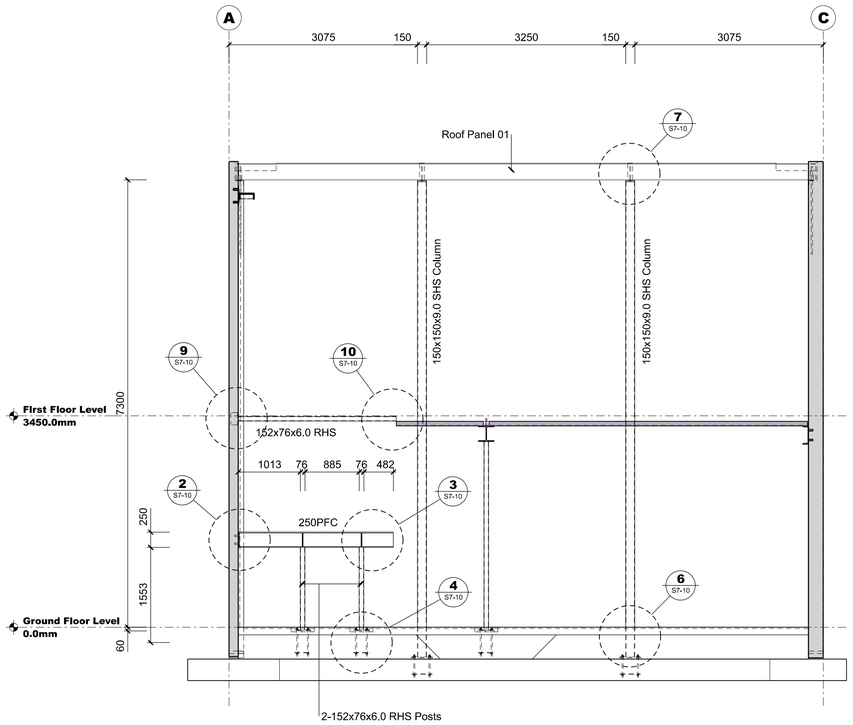
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DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: STEELWORK FLOOR FRAME

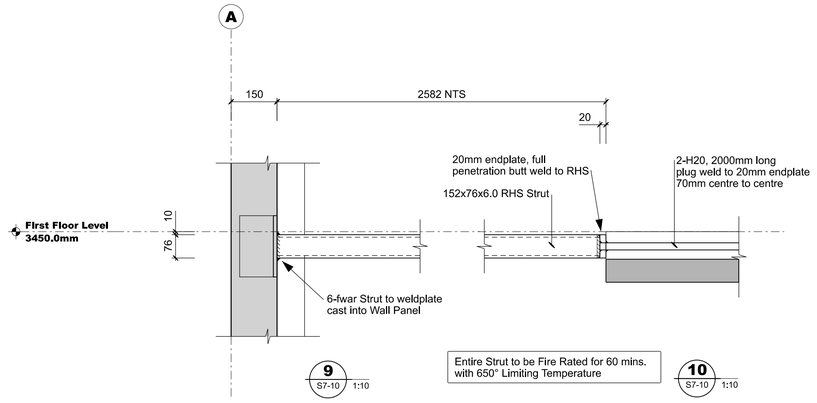
SCALES AT A1	FILE	DRAWING No.	ISSUE
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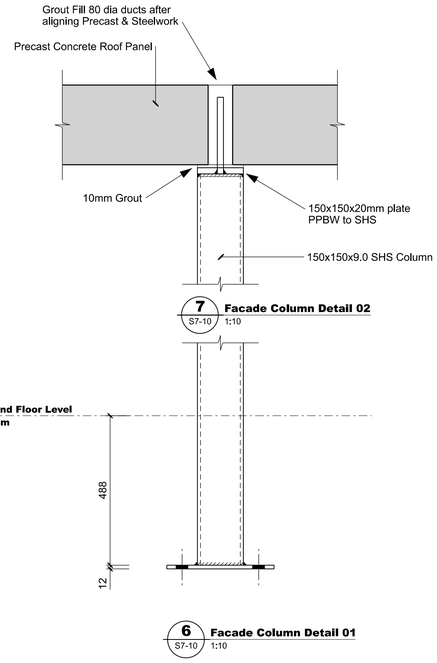
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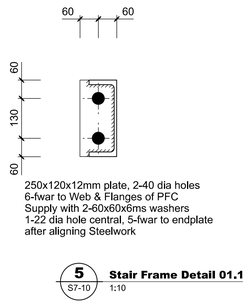
1 Stair Steelwork Elevation S7-10 1:50





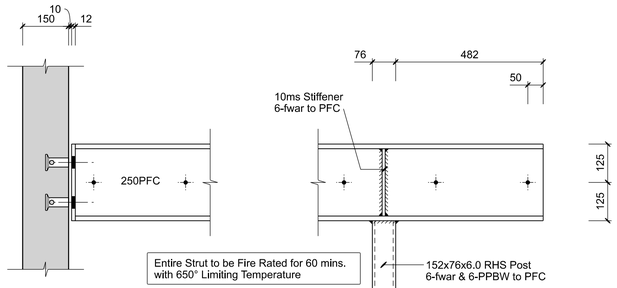
7 Facade Column Detail 02 S7-10 1:10

6 Facade Column Detail 01 S7-10 1:10



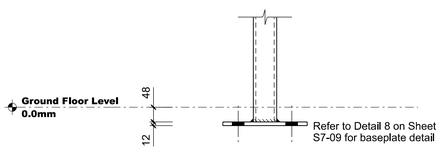
250x120x12mm plate, 2-40 dia holes
6-fwar to Web & Flanges of PFC
Supply with 2-60x60x6ms washers
1-22 dia hole central, 5-fwar to endplate
after aligning Steelwork

5 Stair Frame Detail 01.1 S7-10 1:10

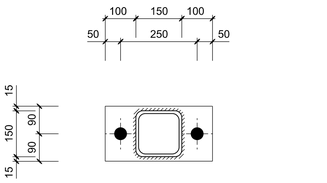


2 Stair Frame Detail 01 S7-10 1:10

3 Stair Frame Detail 02 S7-10 1:10



4 Stair Frame Detail 03 S7-10 1:10



350x180x12mm Plate
2-40 dia holes, 6-fwar to SHS Post
Supply with 2-75x75x10ms washers
1-22 dia hole central, 5-fwar to
baseplate after aligning Steelwork

8 Facade Column Baseplate S7-10 1:10

Refer to Sheet S7-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

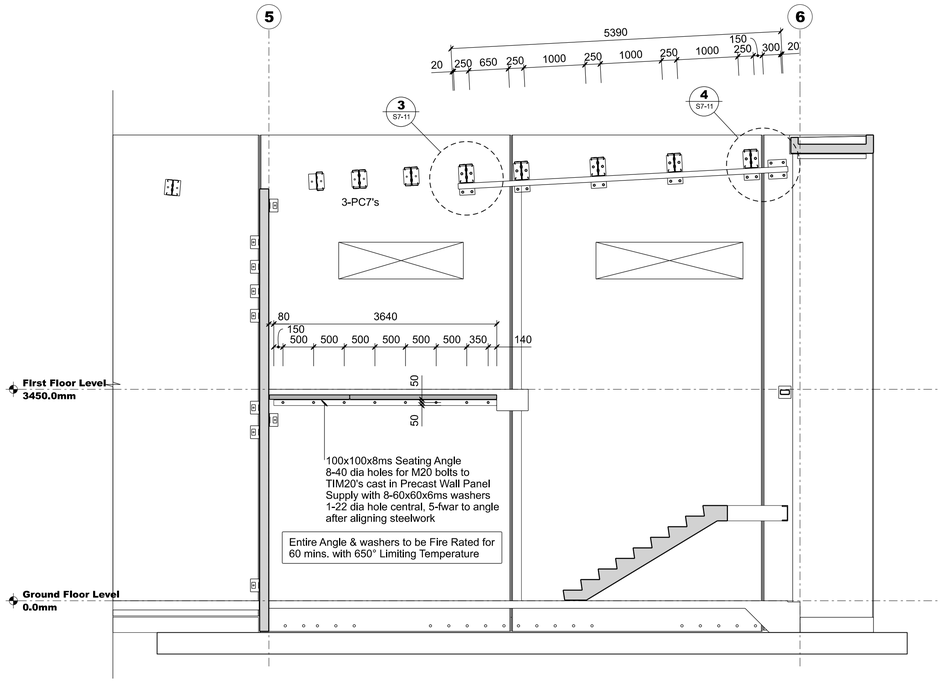
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DWG CHECK:	CM	25-05-2022

DRAWING TITLE: STEELWORK - OFFICE FACADE

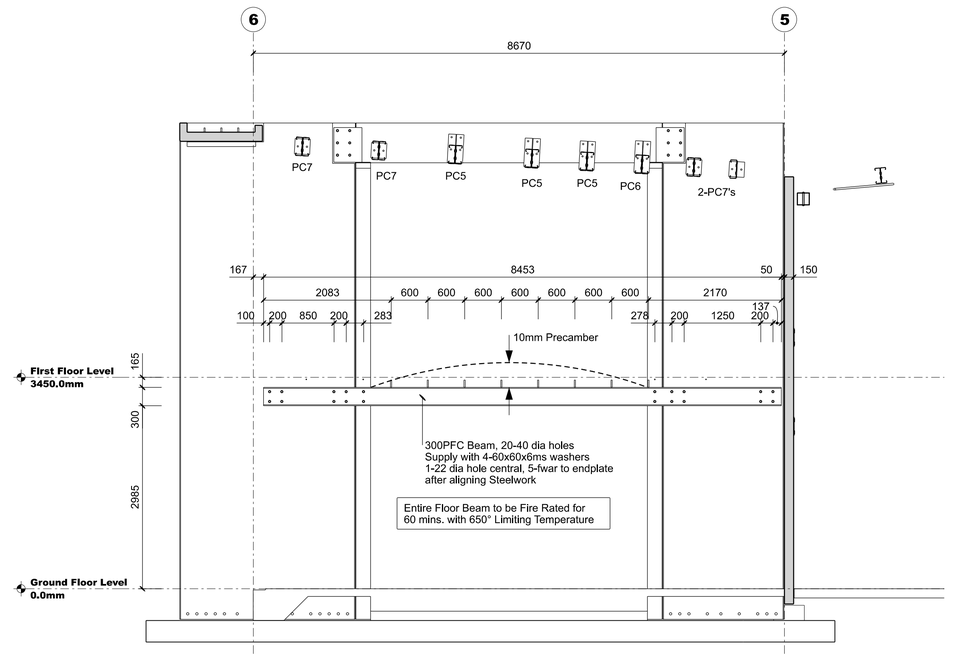
SCALES AT A1	FILE	DRAWING No.	ISSUE
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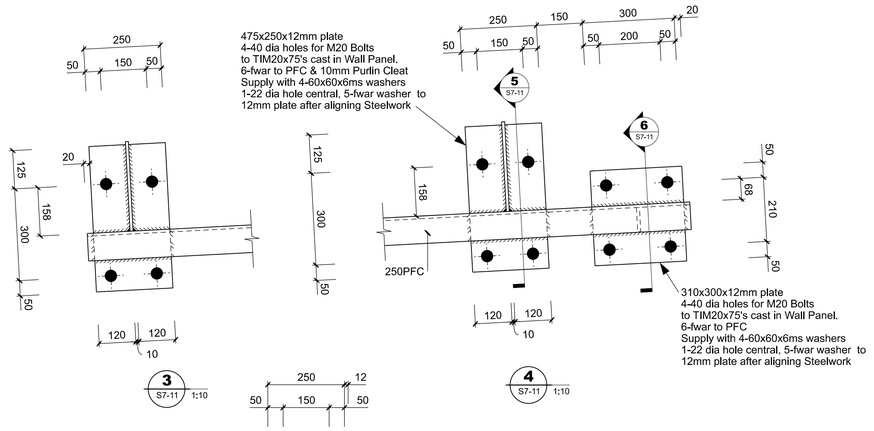
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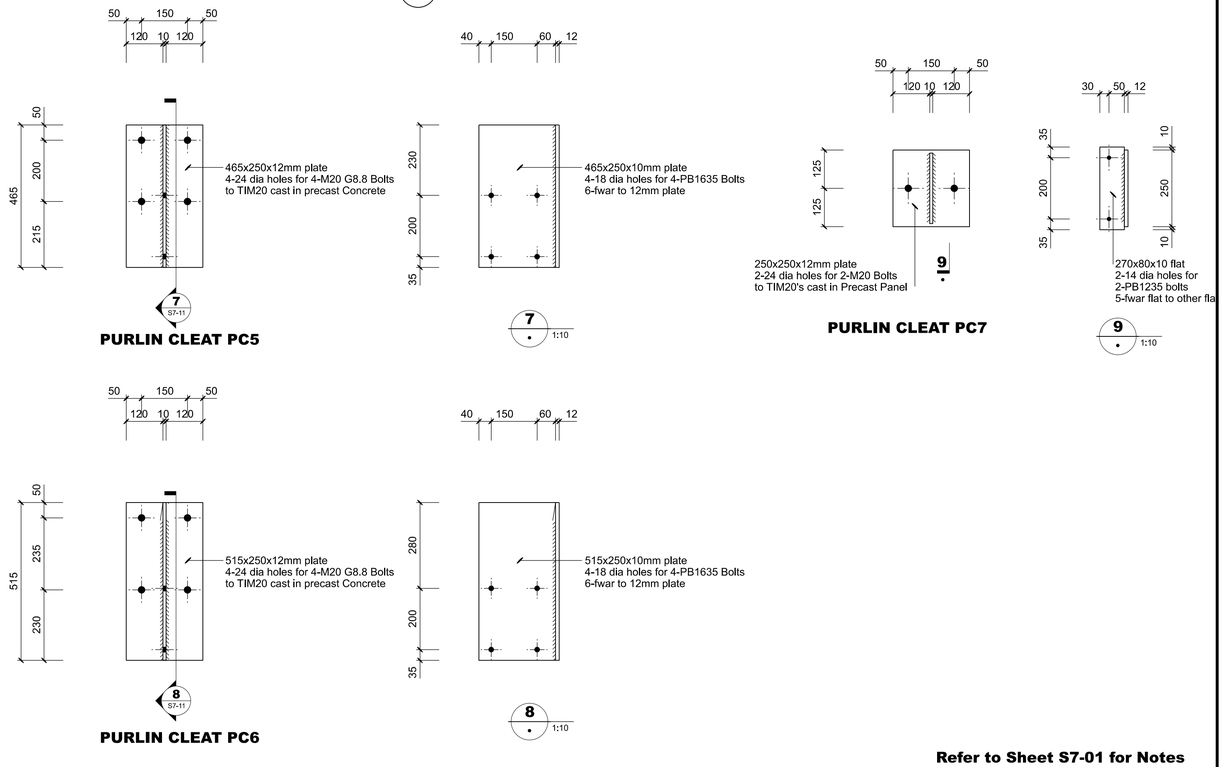


1 S7-11 **Office Steelwork Elevation on Grid A** 1:50



2 S7-11 **Steelwork Elevation on Grid C** 1:50





Refer to Sheet S7-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
1	25-05-2022	GC	CONSENT ISSUE
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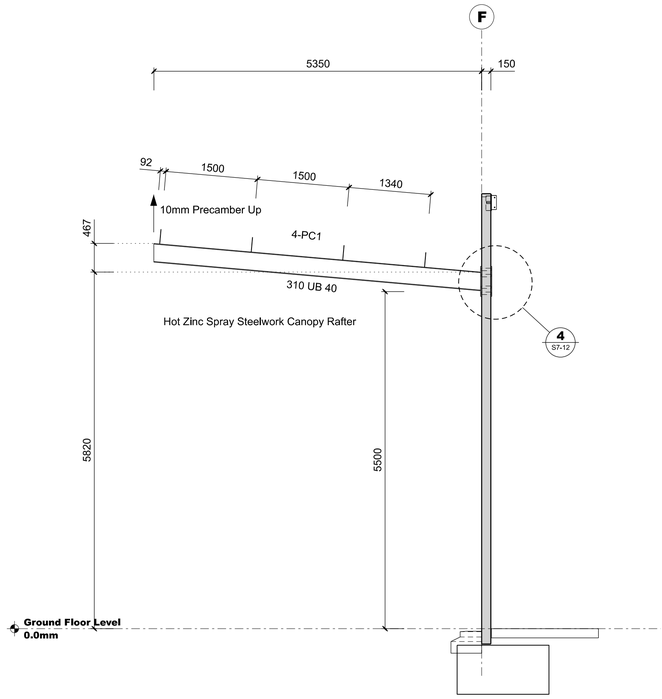
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DRAWING TITLE: STEELWORK - OFFICE FACADE

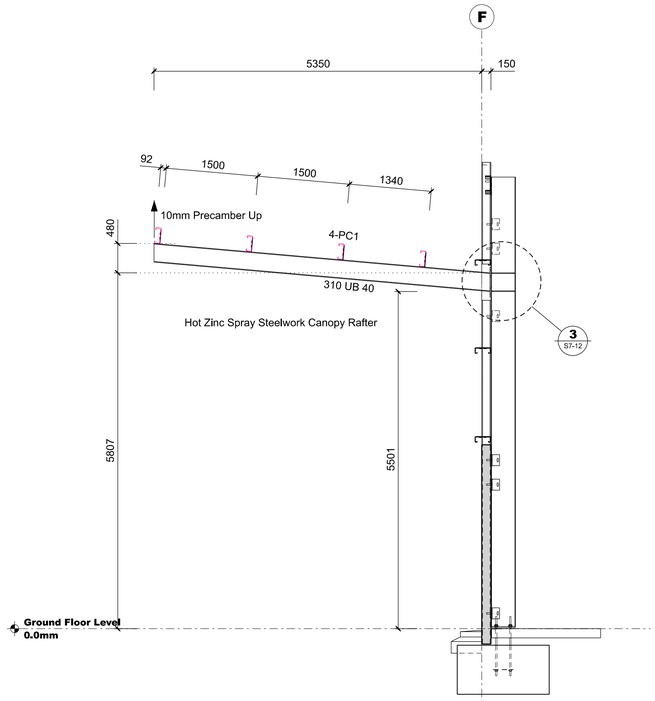
SCALES AT A1	FILE	DRAWING No.	ISSUE
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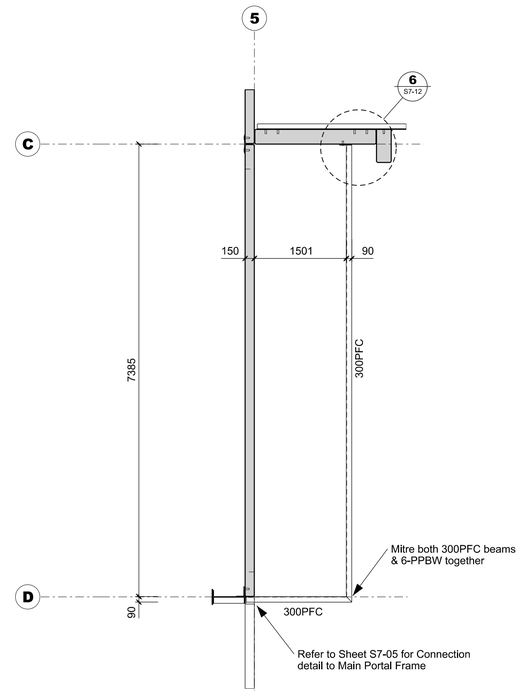
Christchurch City Council
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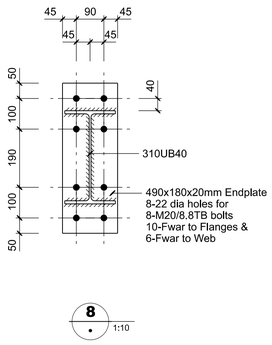
1 S7-12 **Canopy Rafter 1** 1:50



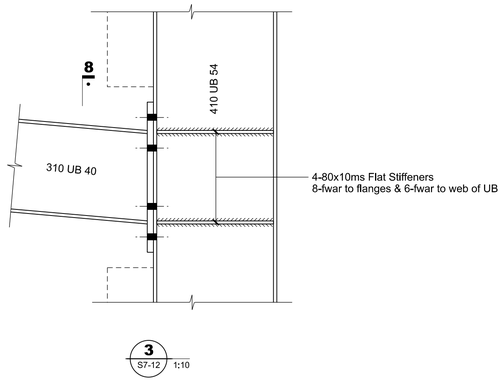
2 S7-12 **Canopy Rafter 2** 1:50



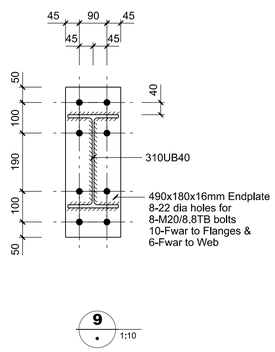
5 S7-12 **Entry Canopy Plan** 1:50



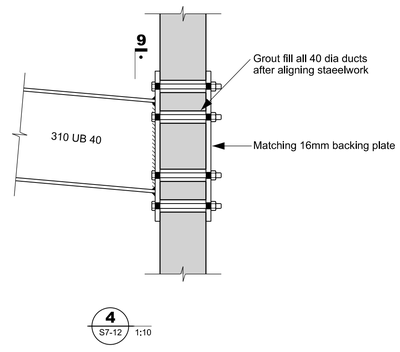
8 1:10



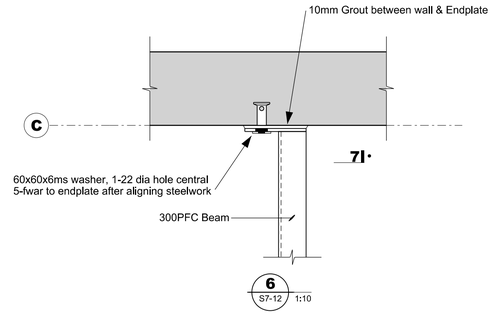
3 S7-12 1:10



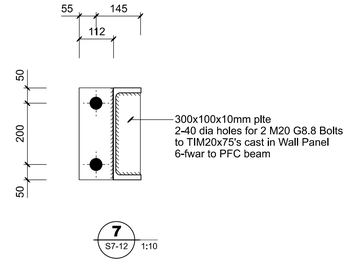
9 1:10



4 S7-12 1:10



6 S7-12 1:10



7 S7-12 1:10

Refer to Sheet S7-01 for Notes

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

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1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

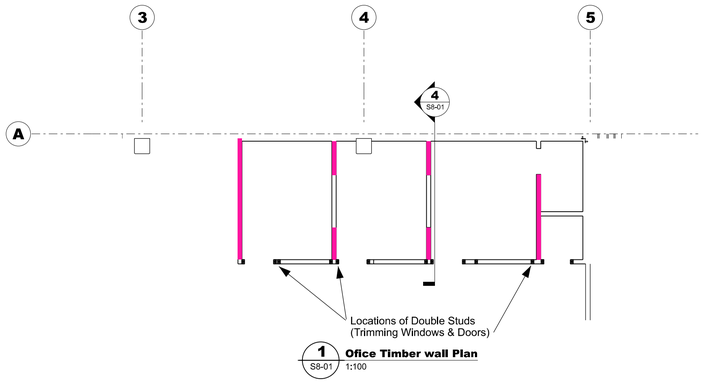
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DES. CHECK:	GC	25-05-2022
DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: STEELWORK - ROLLERDOOR CANOPY

SCALES AT A1	FILE	DRAWING No.	ISSUE
1:50, 1:10	E1823	S7-12	1

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19/10/2022 Nilsson, Michael



1 S8-01 **Ofice Timber wall Plan** 1:100

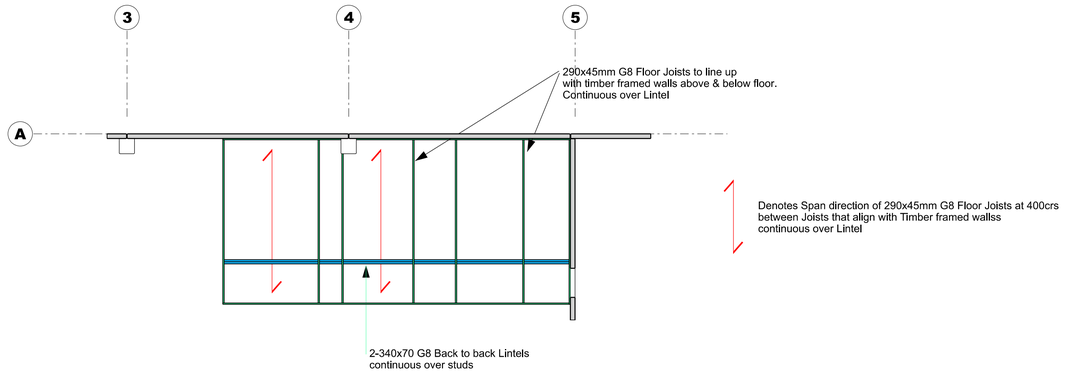
Ground Floor Timber Wall Key

Denotes timber framed walls with 140x45 G8 framing with Studs at 400mm crs Linned with GIB BLG-H system. Installed in accordance with manufacturers Requirements

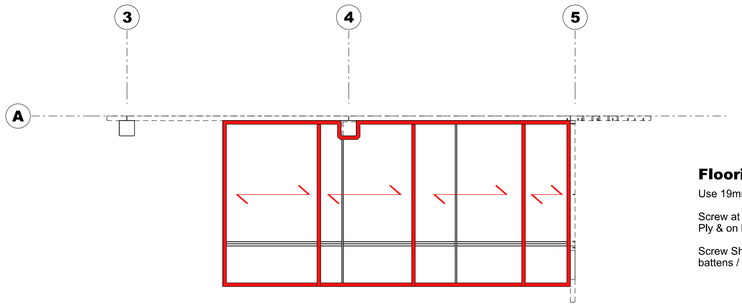
Denotes timber framed walls with 140x45 G8 framing with Studs at 400mm crs Linned with GIB GS2-N system. Installed in accordance with manufacturers Requirements

First Floor Timber Walls

Use 90x45mm G8 Timber Framing with Studs at 600mm crs



2 S8-01 **First Floor Timber Framing Plan** 1:100



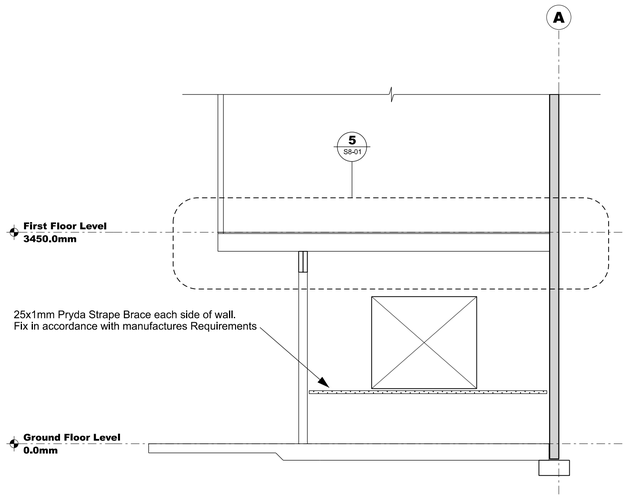
Flooring Notes

Use 19mm F8 Eco Ply Flooring & 10g x 45mm long Screws.

Screw at 150mm centres on perimeter of sheets of Ply & on Lines highlighted in Red.

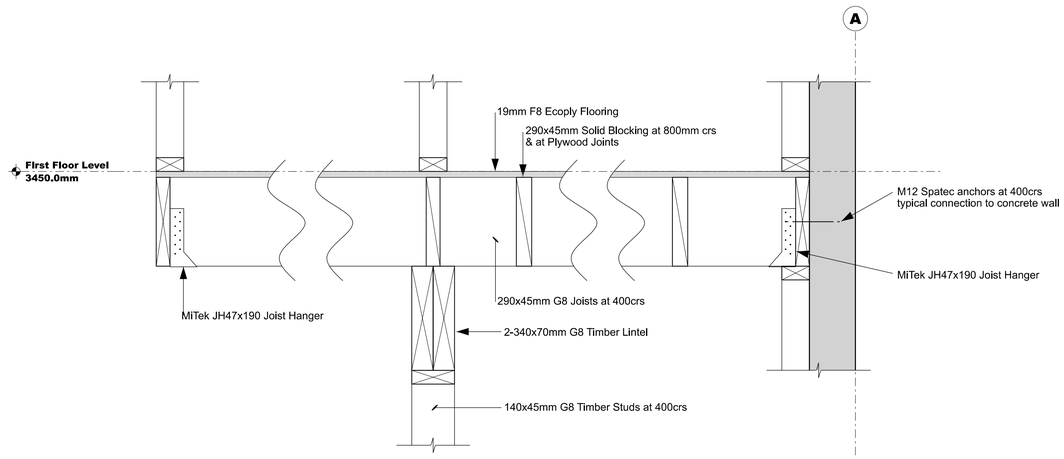
Screw Sheets at 300mm centres on intermediate battens / Joints not Highlighted in Red.

3 S8-01 **Timber Flooring Plan** 1:100



Wall elevation beteen Office 01 & 02, & Office 02 & 03

4 S8-01 **Interal Wall Elevation** 1:50



5 S8-01 **Floor Framing Detail** 1:10

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
1	25-05-2022	GC	CONSENT ISSUE
A	31-03-2022	GC	WORK IN PROGRESS ISSUE

DESIGN:	SH	25-05-2022
DES. CHECK:	GC	25-05-2022
DRAWN:	CM	25-05-2022
DWG CHECK:	CM	25-05-2022

DRAWING TITLE: TIMBER FRAMING PLANS

SCALES AT A1	FILE	DRAWING No.	ISSUE
1:100	E1823	S8-01	1

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19/10/2022 Nilsson, Michael



Project:
Belfast Branch

Address:
Lot 6, 61 Belfast Road
Belfast

Client:

J. A. Russell Ltd
ELECTRICAL & DATA SUPPLIERS

Radcliffe ELECTRICAL

Design Time:
03 hours of professional service

Quote No(s):
TBC

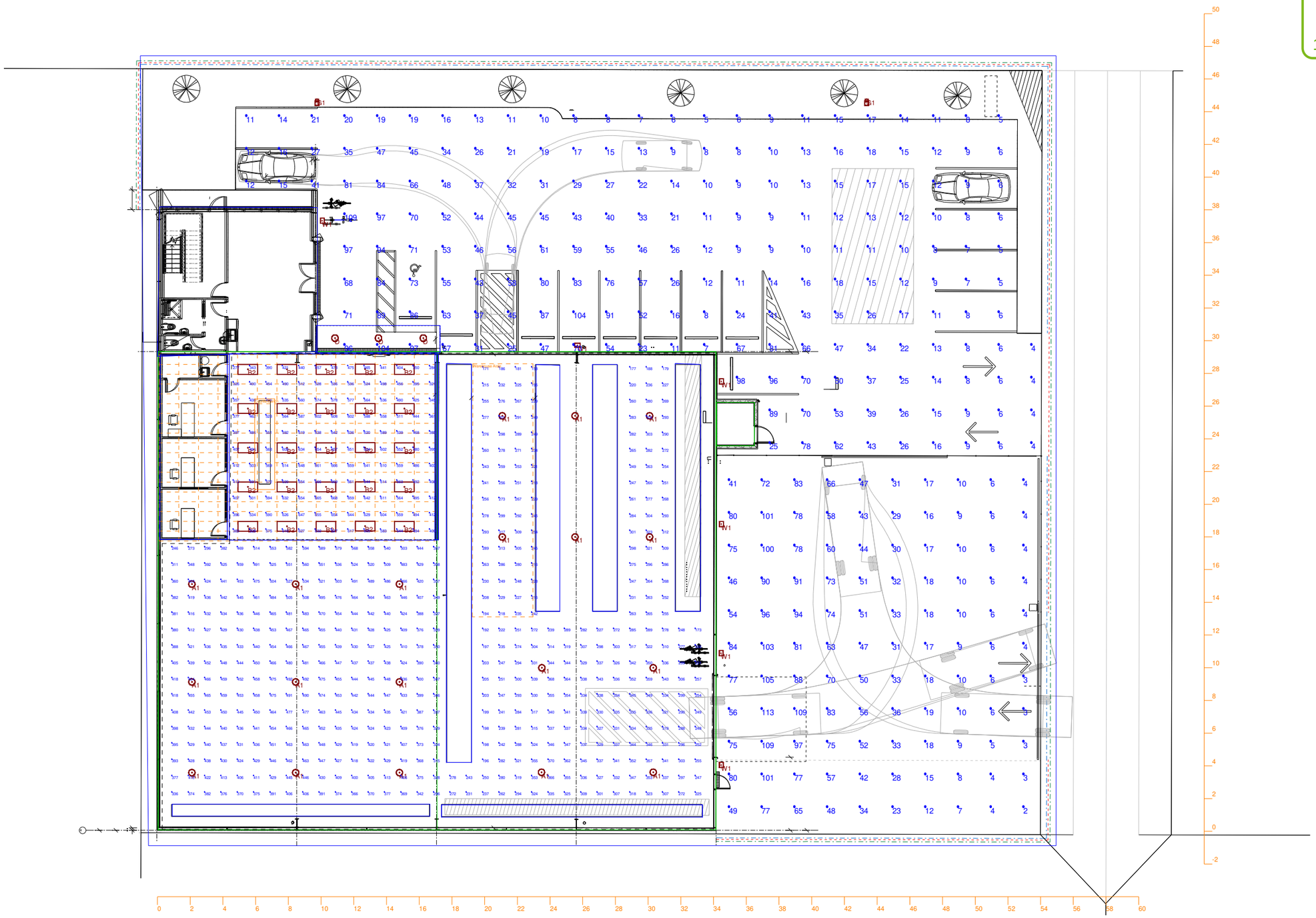
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sylvia.wei@jarussell.co.nz
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Radcliffe ELECTRICAL

Client: J. A. Russell Ltd ELECTRICAL & DATA SUPPLIERS Radcliffe ELECTRICAL

Project Name:	Designed by:	Date:	Design No:	
Belfast Branch	SW	6/05/2022	LSD09327-0	
Project Address:	Checked by:	Date:	Revision:	
Lot 6, 61 Belfast Road, Belfast	XX	6/05/2022	0	Page 1 of 10

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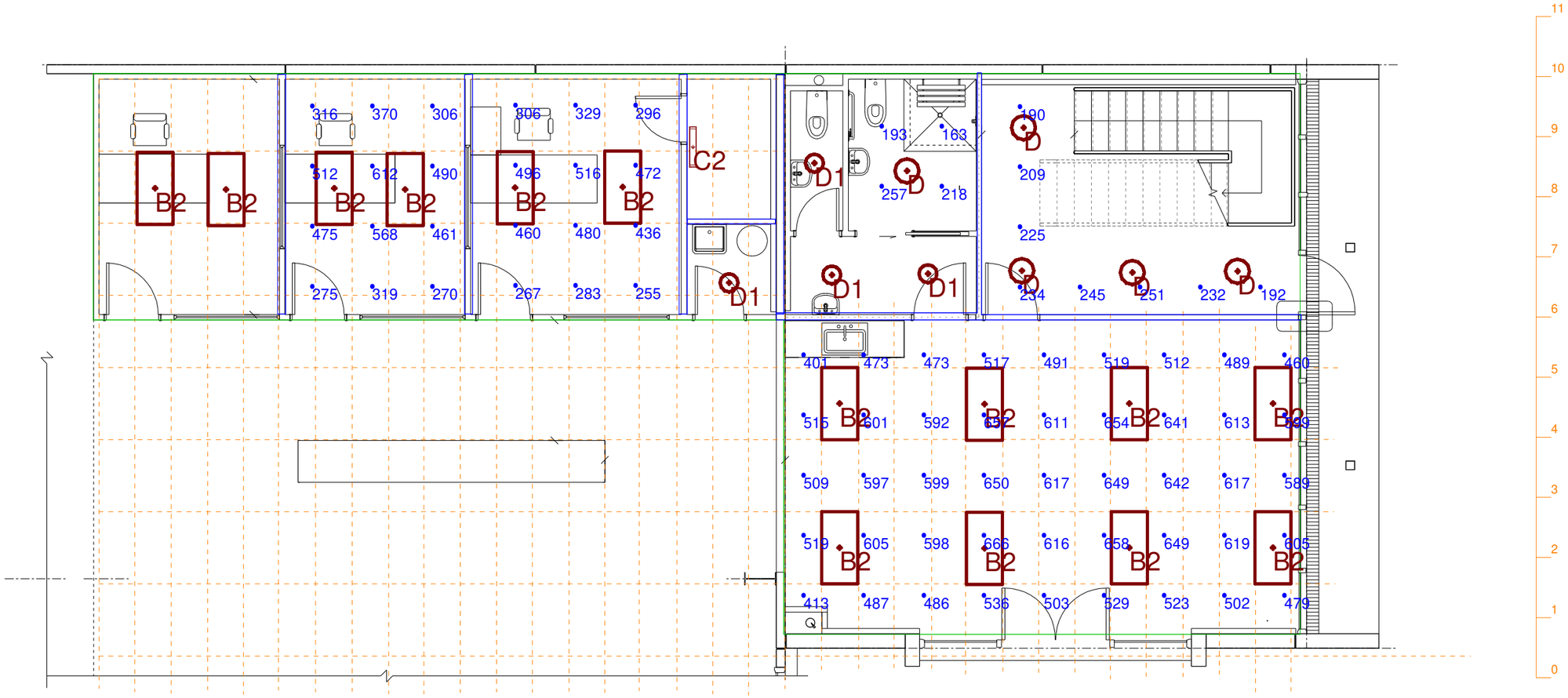
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Belfast Branch	SW	6/05/2022	LSD09327-0	
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Lot 6, 61 Belfast Road, Belfast	XX	6/05/2022	0	Page 2 of 10

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Office Ground Floor

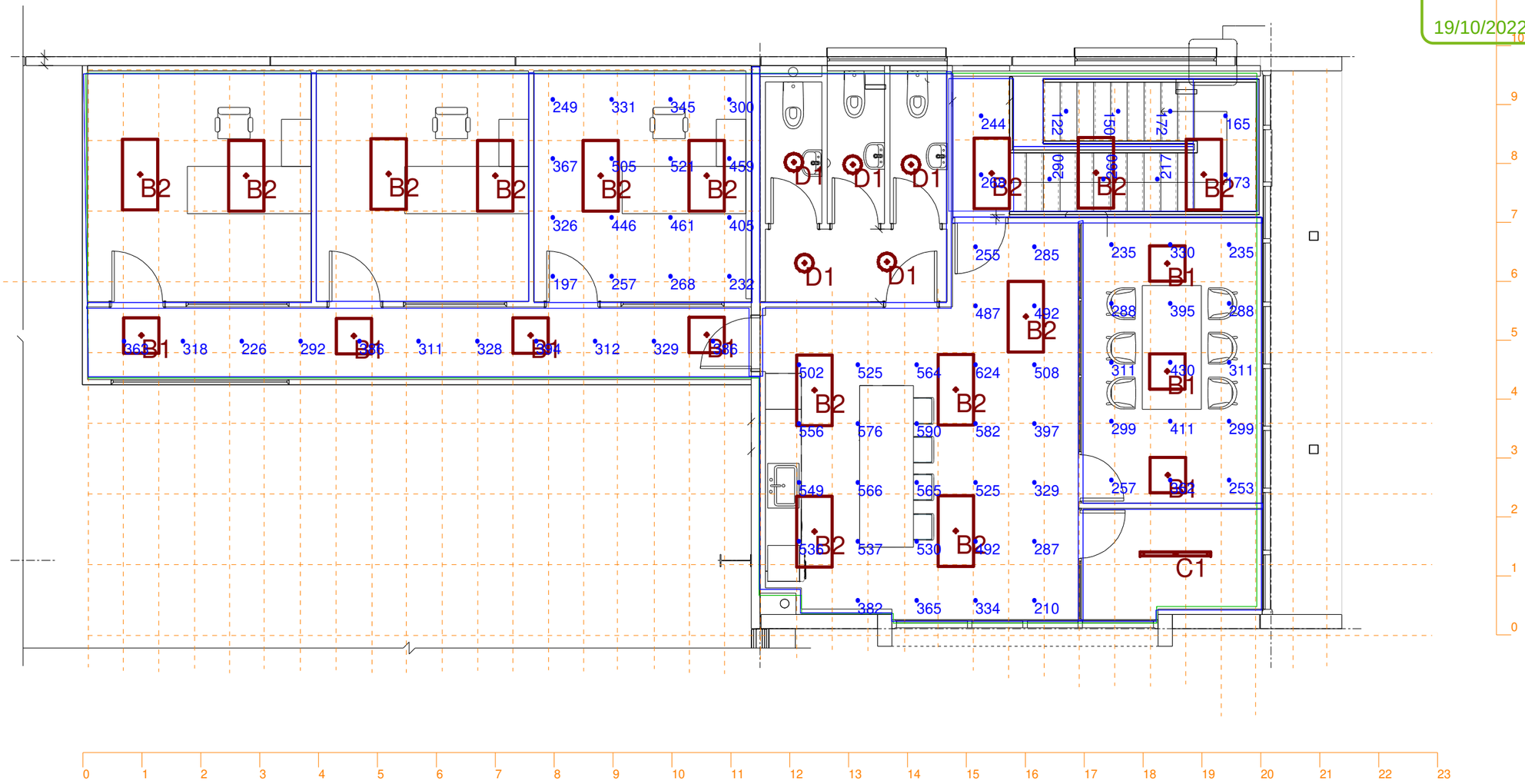
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Lot 6, 61 Belfast Road, Belfast	XX	6/05/2022	0

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Office First Floor

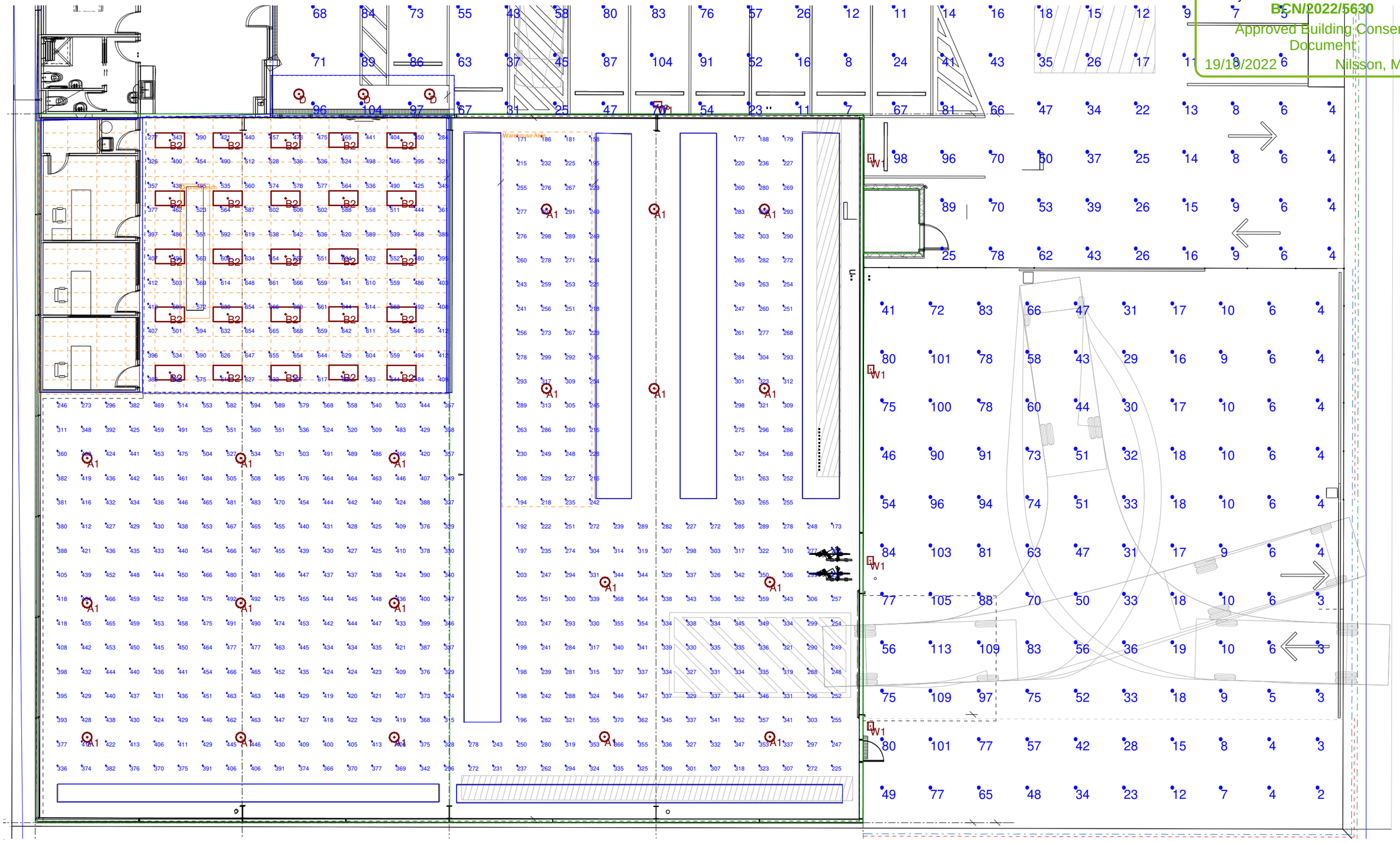
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Belfast Branch	SW	6/05/2022	LSD09327-0	
Project Address:	Checked by:	Date:	Revision:	
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		Project Address: Lot 6, 61 Belfast Road, Belfast	Checked by: XX	Date: 6/05/2022	Revision: 0

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Lot 6, 61 Belfast Road, Belfast	XX	6/05/2022	0

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BCN/2022/5630
Approved Building Consent Document
19/10/2022 Nilsson, Michael

Luminaire Schedule

Symbol	Qty	Label	Lumens	LLF	Description	Power	Brand	Image
	19	A1	23064	0.750	SMARTBRIGHT BY240P COLOUR_LUMEN SELECT HIBAY 150w 4K BK L70@50HRS IP65 IK08	145.493	SIGNIFY/PHILIPS	
	7	B1	3803	0.750	SMARTBRIGHT LED PANEL CCT SELECT 600X600 35W 4K_5K_65K CRI80 IP20 IK05 L70@50HR	38	PHILIPS	
	53	B2	5501	0.750	SMARTBRIGHT LED PANEL CCT SELECT 1200X600 50W 4K_5K_65K CRI80 IP20 IK05 L70@50HR	50	PHILIPS	
	1	C1	4535	0.750	SMARTBRIGHT BATTEN DUO POWER CCT SELECT 4K_5K_65K 35W L1200 L70_50HRS IP20 IK04	35	SIGHIFY/PHILIPS	
	1	C2	2307	0.750	SMARTBRIGHT BATTEN DUO POWER CCT SELECT 4K_5K_65K 18W L600 L70_50HRS IP20 IK04	18	SIGNIFY/PHILIPS	
	8	D	2100	0.700	SMARTBRIGHT OYSTER 22W 3K_4K_65K D400mm IP54 IK02 L70@30HRS	22	Philips	
	9	D1	1400	0.700	SMARTBRIGHT OYSTER 15_5W 3K_4K_65K D300mm IP54 IK02 L70@30HRS	15.5	Philips	
	2	G1	5733	0.800	LUMA GEN2 MICRO LED6500 DX50 4K L90_100HRS IP65 IK10	42.5	SIGNIFY	
	6	W1	9960	0.750	SMARTBRIGHT G2 100W 4K AWB L70_50HRS IP65 IK07	100	PHILIPS	

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Calculation Summary

Calculation Summary

Label	Avg	Max	Min	Min/Avg	Min/Max
Backyard	42.67	113	2	0.05	0.02
Carpark	32.02	109	4	0.12	0.04
FF_Cafe	469.64	624	210	0.45	0.34
FF_Corridor	331.36	394	226	0.68	0.57
FF_Meeting	313.60	430	235	0.75	0.55
FF_Office	354.31	521	197	0.56	0.38
GF_ACC	207.75	257	163	0.78	0.63
GF_Office	383.00	516	255	0.67	0.49
GF_Office_2	414.50	612	270	0.65	0.44
GF_Showroom	561.78	666	401	0.71	0.60
GF_Stairwell	222.25	251	190	0.85	0.76
RetailArea	531.78	669	277	0.52	0.41
Warehouse	359.29	594	158	0.44	0.27
CounterBench	555.60	572	523	0.94	0.91
Warehouse Aisle	250.59	317	158	0.63	0.50

LPD Area Summary

Label	Area	Total Watts	LPD
LPDArea_Retail+Warehouse	933.30	4014.367	4.301

Design Notes

Concept Design
MH: Highbay 6m, Floodlight @5.2m
Treated as open plan space with no obstructions

Standard Design Parameters

Reflectances:

	Office	Warehouse
Ceiling	- 0.70	- 0.50
Wall	- 0.50	- 0.50
Floor	- 0.20	- 0.20
Shelving		- 0.40

Working plane height:

Office	- 0.70m
Warehouse General	- 0.70m
Warehouse Packing Bench	- 0.85m
Tennis	- 1.00m
Sports - General	- 0.00m

Maintenance Factors:

Maintenance Factors derived from AS/NZS1680.4:2001 based upon 2yr cleaning cycle/ Clean Room (Normal for Warehouse) / Medium size and lumen maintenance based on mean life of light source for legacy product and 5 year (20,000hrs) project life for (Office/Retail/Warehouse/ Exterior Carparks and Security) and 10 year (10,000hrs) project life for (Exterior Sports Lighting) for LED product.

Designed by:
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Radcliffe ELECTRICAL

Client:

Project Name: Belfast Branch

Project Address: Lot 6, 61 Belfast Road, Belfast

Designed by:	Date:	Design No:
SW	6/05/2022	LSD09327-0

Checked by:	Date:	Revision:
XX	6/05/2022	0

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Luminaire Images



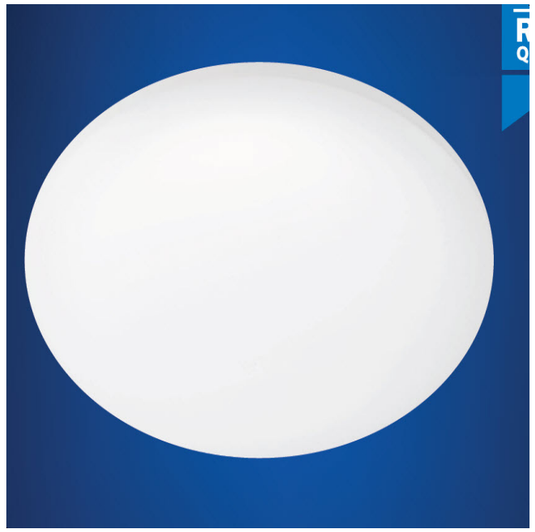
Label : A1



Label : B2



Label : C2



Label : D1



Label : B1



Label : C1



Label : D



Label : G1

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Luminaire Images



Label : W1

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Belfast Branch	SW	6/05/2022	LSD09327-0	
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Lot 6, 61 Belfast Road, Belfast	XX	6/05/2022	0	Page 10 of 10

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Luminaire Schedule for Ordering (Convert Quote to Sale for all LSD Projects)

Note: Additional items maybe required that are not specified as part of the item code ie Drivers, brackets, poles, reflectors

Luminaire Schedule

Symbol	Qty	Label	Description	Brand	Code	Pronto
	19	A1	SMARTBRIGHT BY240P COLOUR_LUMEN SELECT HIBAY 150w 4K BK L70@50HRS IP65 IK08	SIGNIFY/PHILIPS	BY240LED25085 4WB	73262630
	7	B1	SMARTBRIGHT LED PANEL CCT SELECT 600X600 35W 4K_5K_65K CRI80 IP20 IK05 L70@50HR	PHILIPS	RC170B LED38S/SCCT PSU W60L60	72072110
	53	B2	SMARTBRIGHT LED PANEL CCT SELECT 1200X600 50W 4K_5K_65K CRI80 IP20 IK05 L70@50HR	PHILIPS	RC170BG255P6012	72072100
	1	C1	SMARTBRIGHT BATTEN DUO POWER CCT SELECT 4K_5K_65K 35W L1200 L70_50HRS IP20 IK04	SIGHIFY/PHILIPS	BN132CW1200CCT	72071910
	1	C2	SMARTBRIGHT BATTEN DUO POWER CCT SELECT 4K_5K_65K 18W L600 L70_50HRS IP20 IK04	SIGNIFY/PHILIPS	BN132CW600CCT	72071900
	8	D	SMARTBRIGHT OYSTER 22W 3K_4K_65K D400mm IP54 IK02 L70@30HRS	Philips	929002562319	71003390
	9	D1	SMARTBRIGHT OYSTER 15_5W 3K_4K_65K D300mm IP54 IK02 L70@30HRS	Philips	929002562219	71003380
	2	G1	LUMA GEN2 MICRO LED6500 DX50 4K L90_100HRS IP65 IK10	SIGNIFY	BGP702 DX50	XCODE
	6	W1	SMARTBRIGHT G2 100W 4K AWB L70_50HRS IP65 IK07	PHILIPS	BVP151NW100	72210500

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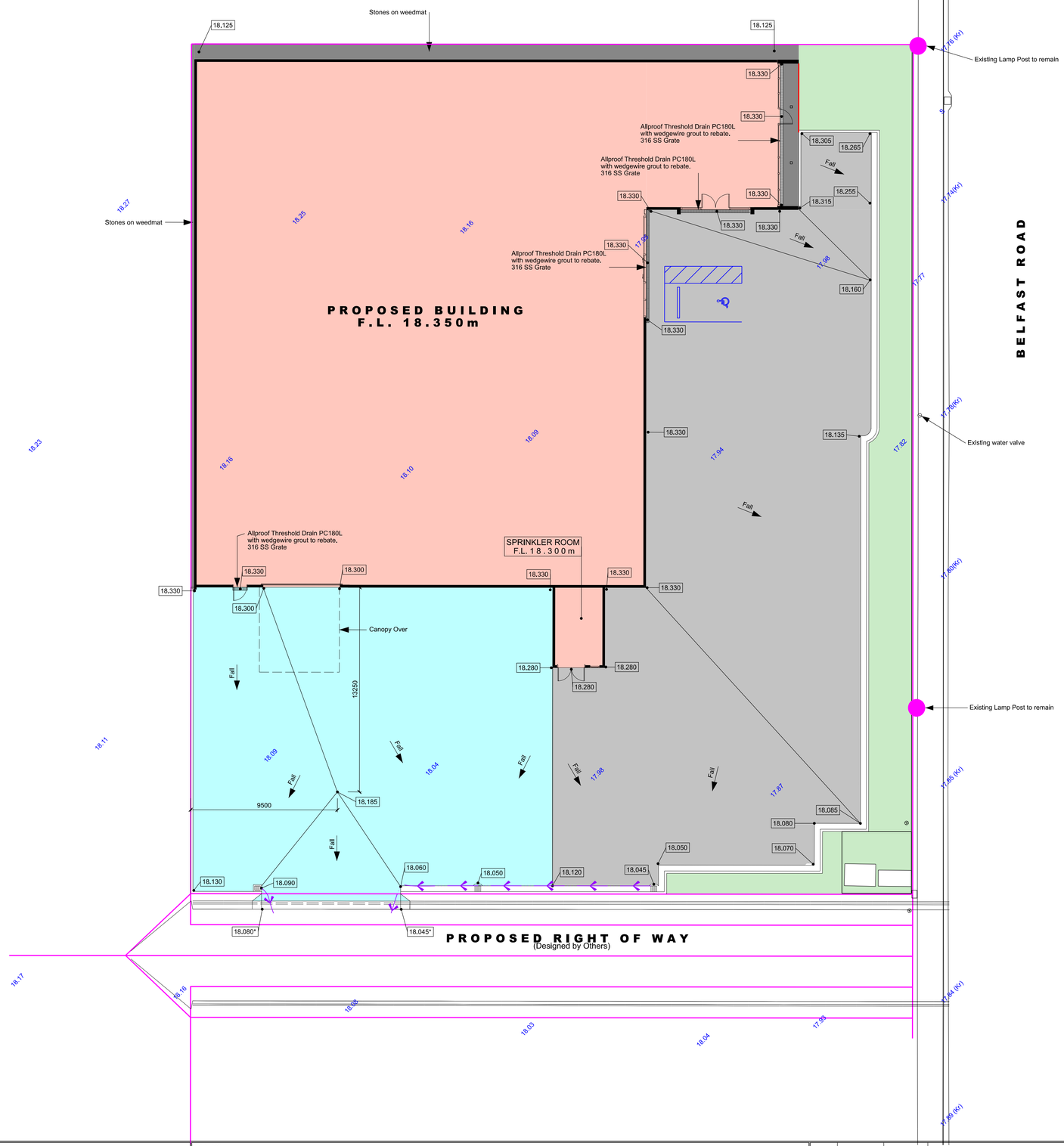
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Client:
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Project Name:	Designed by:	Date:	Design No:	
Belfast Branch	SW	6/05/2022	LSD09327-0	
Project Address:	Checked by:	Date:	Revision:	
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NOTES

All levels to CDD July 2019.

Origin of levels to be BM5022 (EHCG), R.L.,16.559 m

All Stormwater & Sewerage to be in accordance with the New Zealand Building Code.

Yard sumps to be in accordance with the NZBC E1/AS1 3.6.2 type two(Fig 9). An acceptable alternative is a CCC type SD 327 or SD 325 provided it is fitted with a trapped or submerged outlet to comply with NZBC E1/AS1 3.6.1(c).

Refer to Architectural drawings for sewerage details in toilet areas.

Refer to the Specification for the yard construction.

- 12.260 — Denotes existing surface levels
- 12.260(K) — Denotes existing kerb levels
- 12.260(ch) — Denotes existing channel levels
- 12.260(cr) — Denotes existing crown levels
- 12.260 — Denotes proposed surface levels
- 12.260* — Denotes proposed surface levels to match existing
- Denotes proposed landscaped areas
- Denotes proposed asphalt areas
- Denotes proposed stones on weedmat area
- Denotes proposed concrete areas
- Denotes proposed overland flow path

REFER TO C-04 & C-05 FOR DETAILS.

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CLIENT: ZEAL CONSTRUCTION LTD

PROJECT: DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
3	14-10-2022	GC	SURFACE LEVEL AMENDED
2	09-09-2022	GC	SURFACE LEVEL ADDED
1	29-07-2022	GC	CONSENT ISSUE

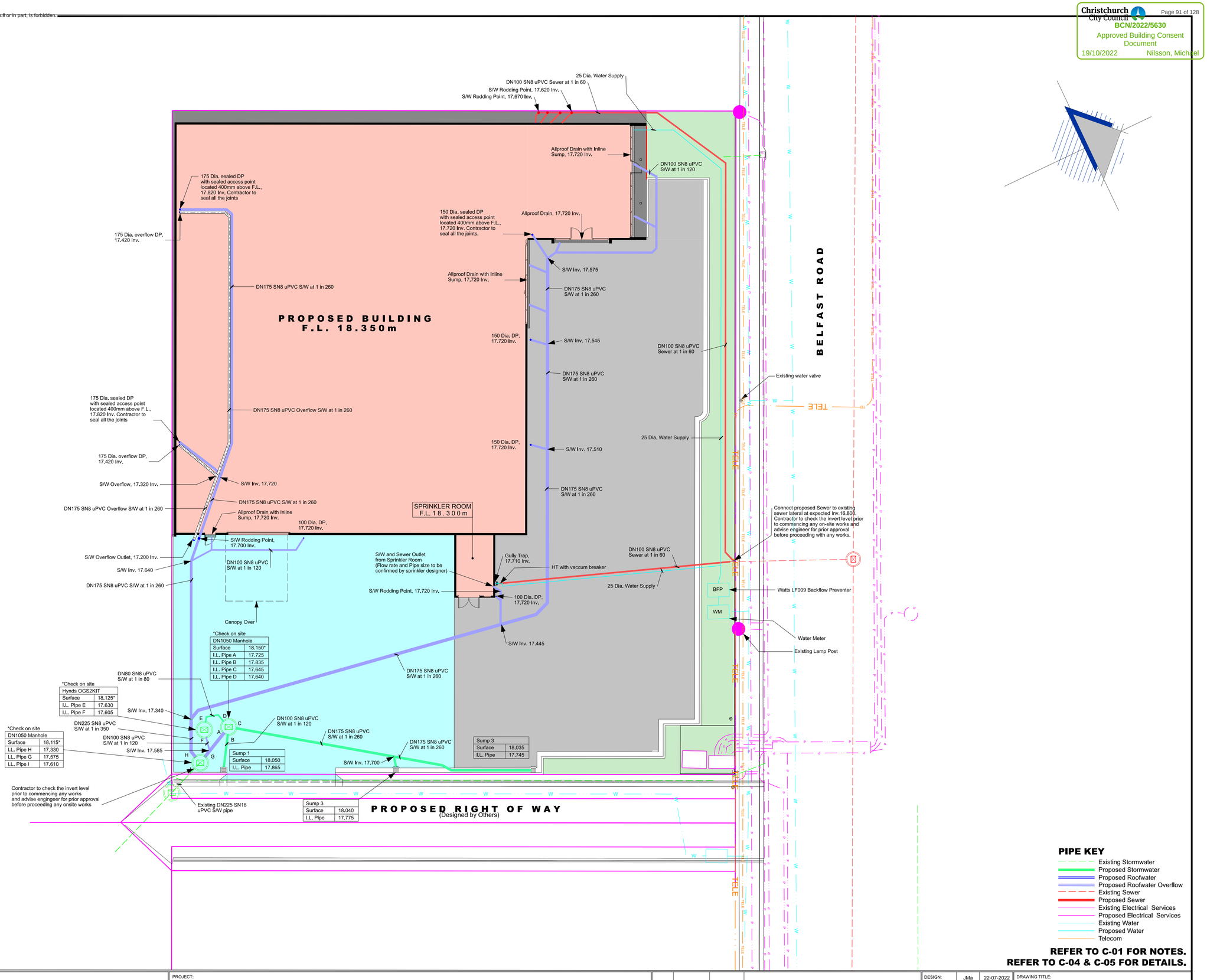
DESIGN:	JMa	22-07-2022
DES. CHECK:	JMa	22-07-2022
DRAWN:	JMa	22-07-2022
DWG CHECK:	JMa	22-07-2022

DRAWING TITLE: CIVIL SURFACE LEVELS

SCALES AT A1	FILE	DRAWING No.	ISSUE
1:150	E1823	C-01	3

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PIPE KEY

- Existing Stormwater
- Proposed Stormwater
- Proposed Roofwater
- Proposed Roofwater Overflow
- Existing Sewer
- Proposed Sewer
- Existing Electrical Services
- Proposed Electrical Services
- Existing Water
- Proposed Water
- Telecom

REFER TO C-01 FOR NOTES.
REFER TO C-04 & C-05 FOR DETAILS.

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
4	14-10-2022	GC	DRAINAGE LAYOUT AMENDED
3	04-10-2022	GC	GULLY TRAP AND HOSE TAP ADDED
2	15-09-2022	GC	BACK FLOW PREVENTER AMENDED
1	29-07-2022	GC	CONSENT ISSUE

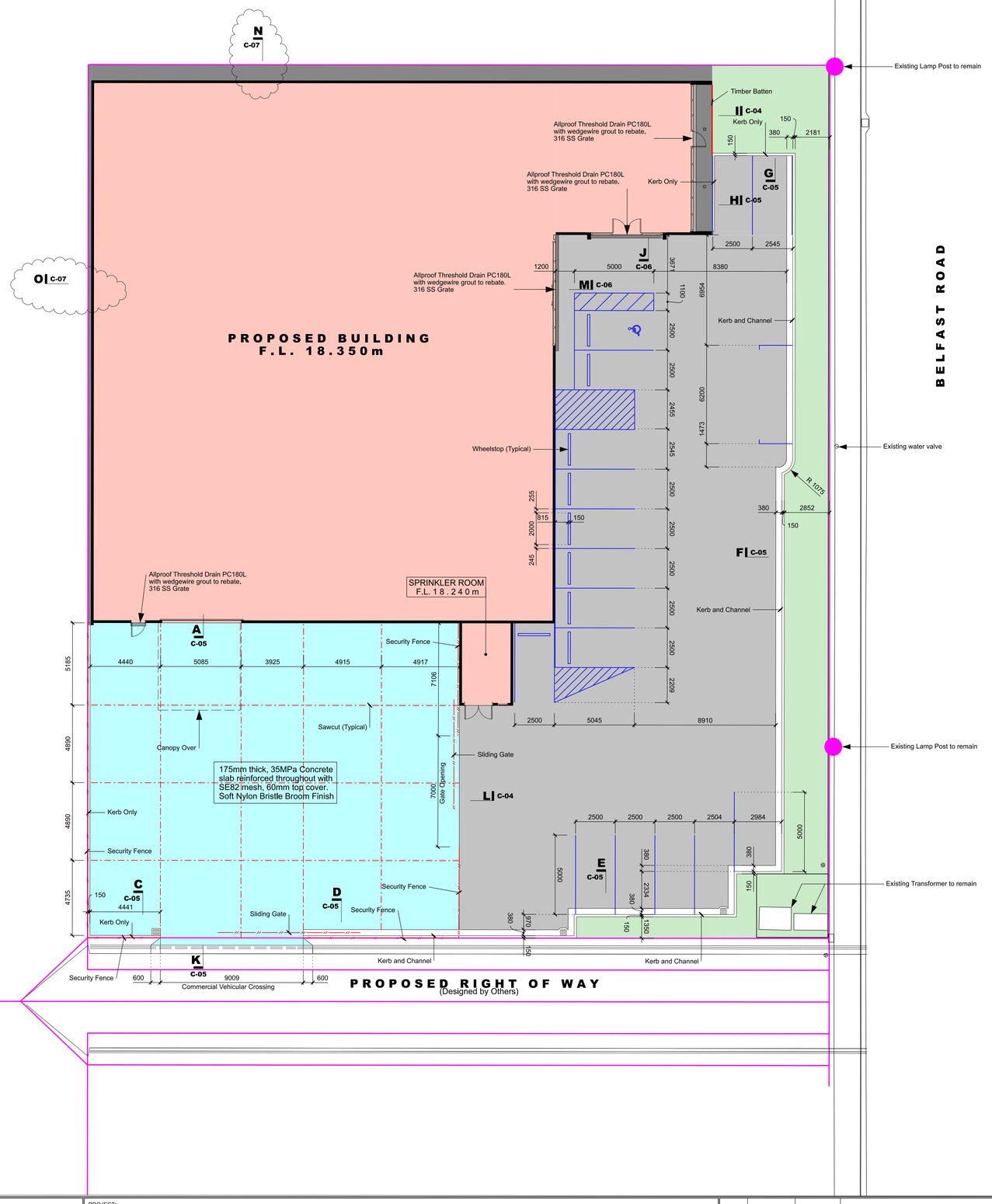
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DES. CHECK:	JMa	22-07-2022
DRAWN:	JMa	22-07-2022
DWG CHECK:	JMa	22-07-2022

DRAWING TITLE: CIVIL DRAINAGE

SCALES AT A1	FILE	DRAWING No.	ISSUE
1:150	E1823	C-02	4

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REFER TO C-01 FOR NOTES.
REFER TO C-04 & C-05 FOR DETAILS.

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CLIENT: **ZEAL CONSTRUCTION LTD**

PROJECT: **DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH**

ISSUE	DATE	APPROVED	DESCRIPTION
2	09-09-2022	GC	SECTION MARK ADDED
1	29-07-2022	GC	CONSENT ISSUE

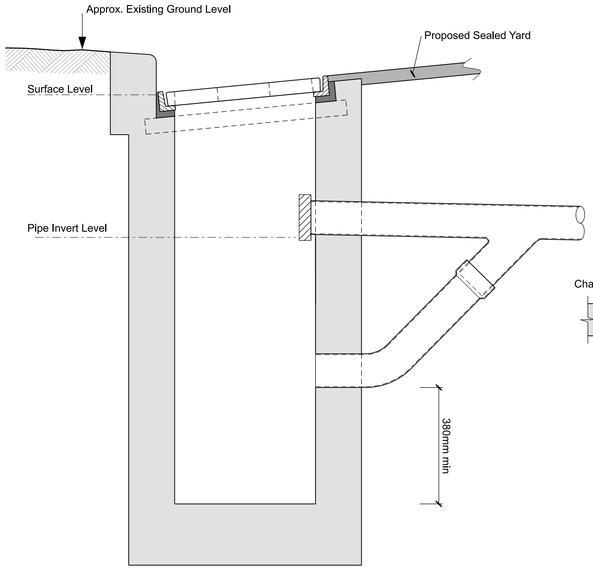
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DES. CHECK:	JMa	22-07-2022
DRAWN:	JMa	22-07-2022
DWG CHECK:	JMa	22-07-2022

DRAWING TITLE: CIVIL PARKING LAYOUT AND DIMENSIONS

SCALES AT A1	FILE	DRAWING No.	ISSUE
1:150	E1823	C-03	2

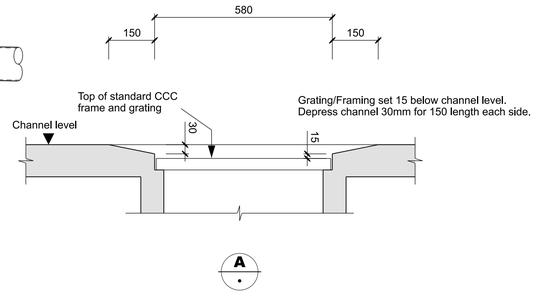
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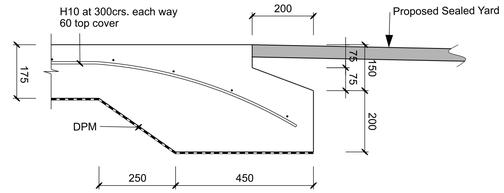
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CHANNEL SUMP SECTION

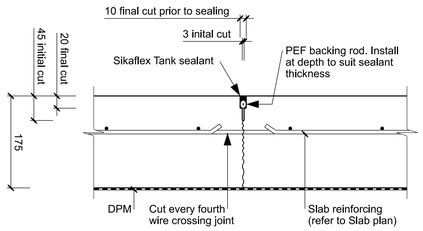
Refer to NZBC E1 AS1, Type Two sump for details.



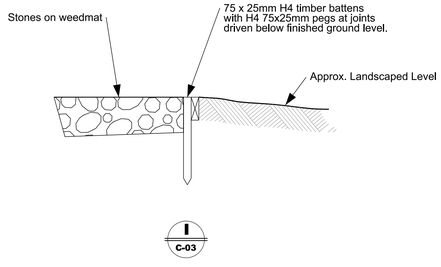


TYPICAL TRAFFICKED SLAB EDGE

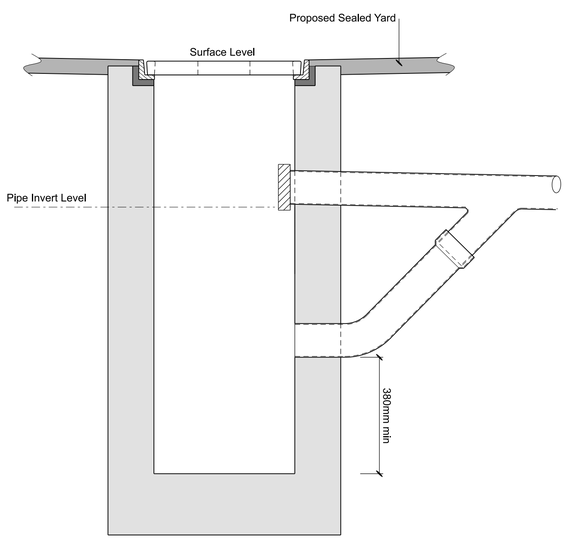
L
C-03



TYPICAL SAWCUT JOINT FOR 175mm Thick Concrete

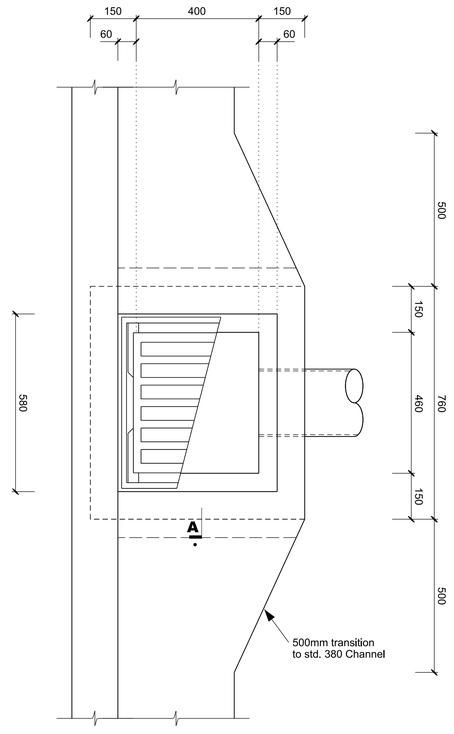


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C-03



SUMP SECTION

Refer to NZBC E1 AS1, Type Two sump for details.



PLAN VIEW, SINGLE SUMP

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CLIENT: ZEAL CONSTRUCTION LTD

PROJECT: DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
1	29-07-2022	GC	CONSENT ISSUE

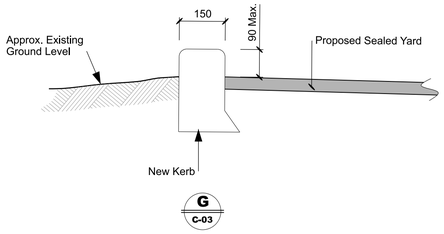
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DES. CHECK:	JMa	22-07-2022
DRAWN:	JMa	22-07-2022
DWG CHECK:	JMa	22-07-2022

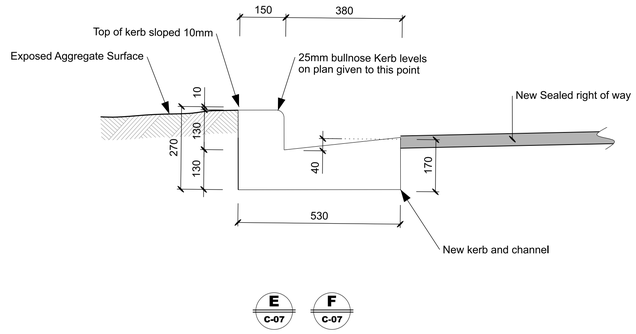
DRAWING TITLE: CIVIL DETAILS

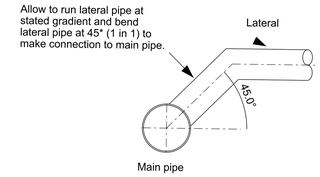
SCALES AT A1	FILE	DRAWING No.	ISSUE
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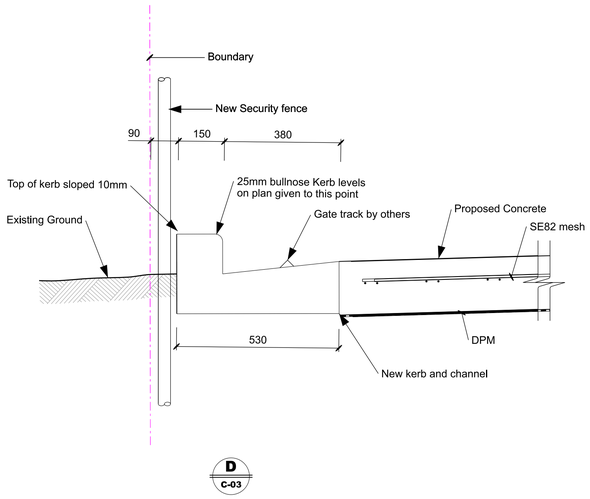
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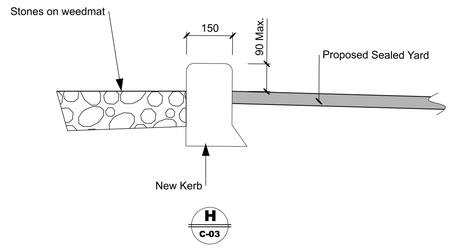


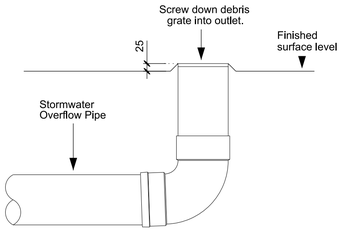




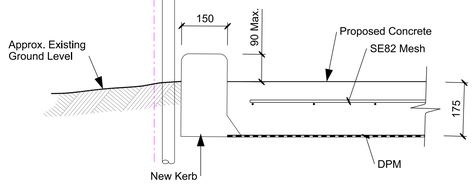
TYPICAL PIPE JUNCTION DETAIL

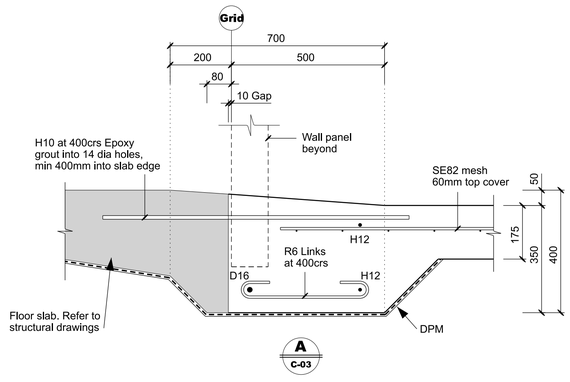


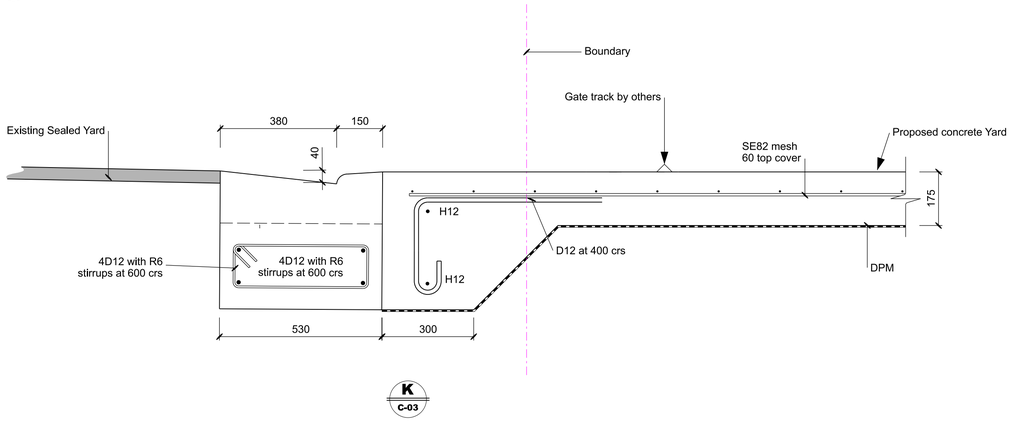




TYPICAL STORMWATER OVERFLOW PIPE

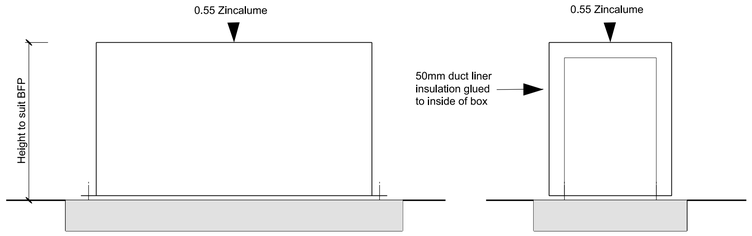






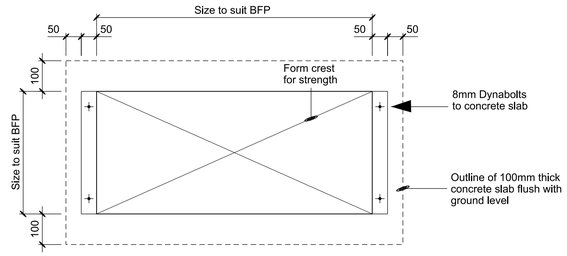
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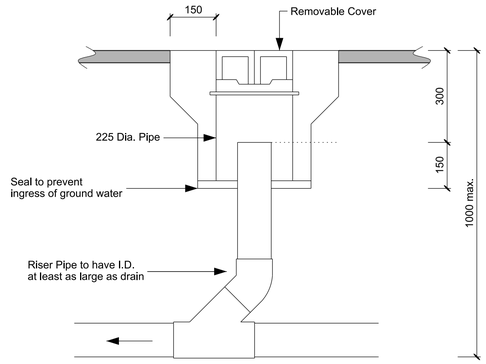
SIDE ELEVATION

TYPICAL SECTION

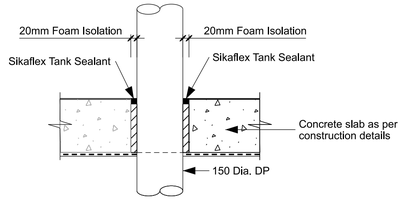


PLAN

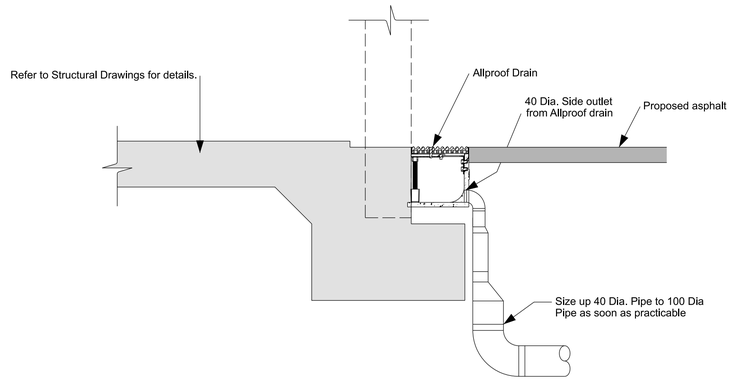
BACKFLOW PREVENTER COVER



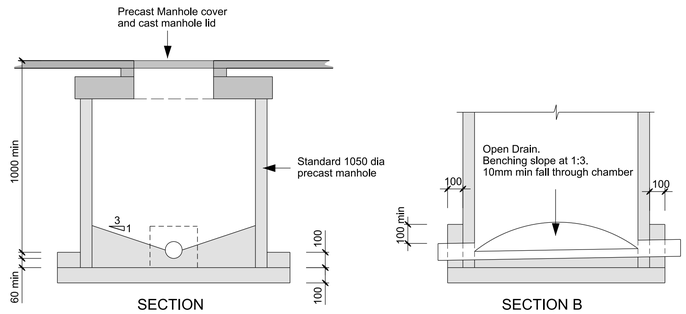
RODDING POINT



TYPICAL EXTERNAL DOWN PIPE SECTION IN CONCRETE SLAB

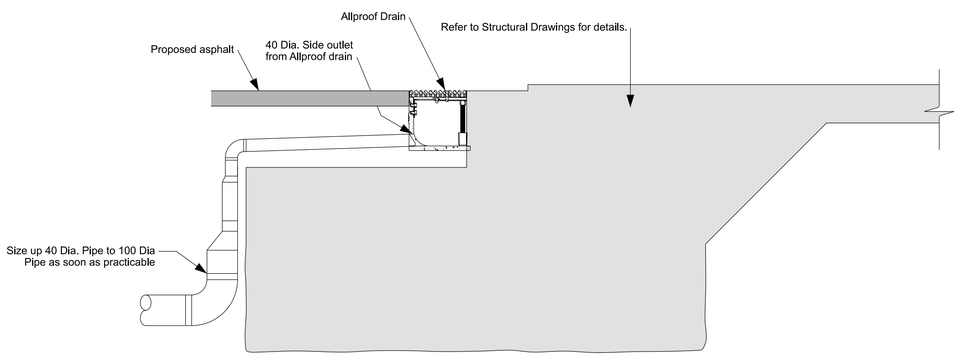


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1050 Dia. ACCESS CHAMBER

Scale 1:20



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CLIENT: ZEAL CONSTRUCTION LTD

PROJECT: DEVELOPMENT - LOT 6 BELFAST ROAD - CHRISTCHURCH

ISSUE	DATE	APPROVED	DESCRIPTION
1	29-07-2022	GC	CONSENT ISSUE

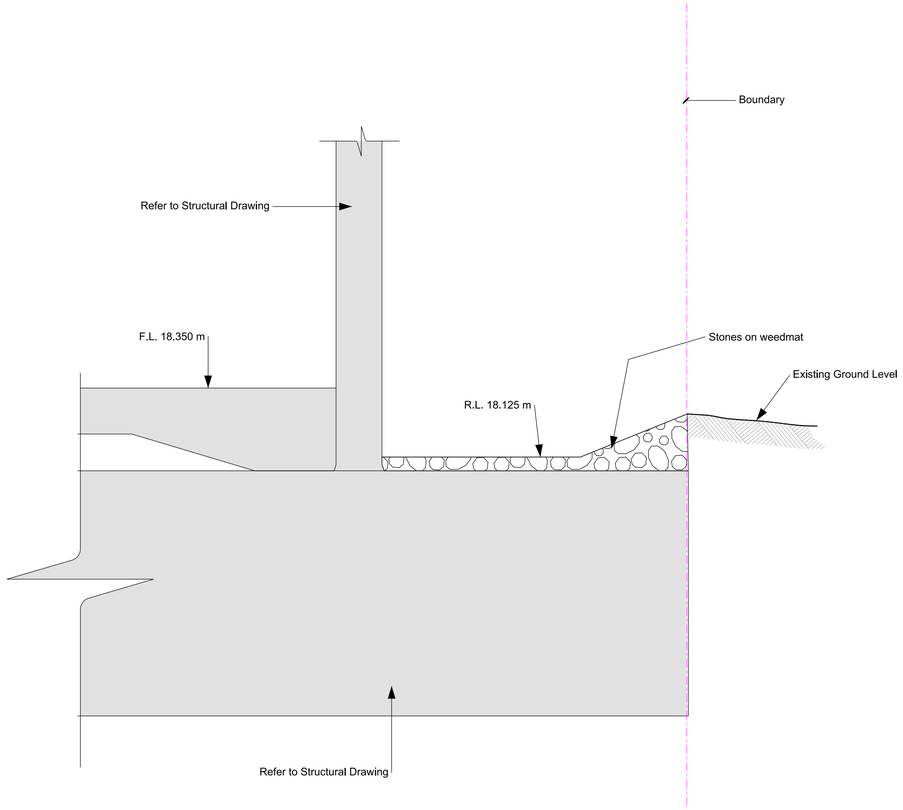
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DES. CHECK:	JMa	22-07-2022
DRAWN:	JMa	22-07-2022
DWG CHECK:	JMa	22-07-2022

DRAWING TITLE: CIVIL DETAILS

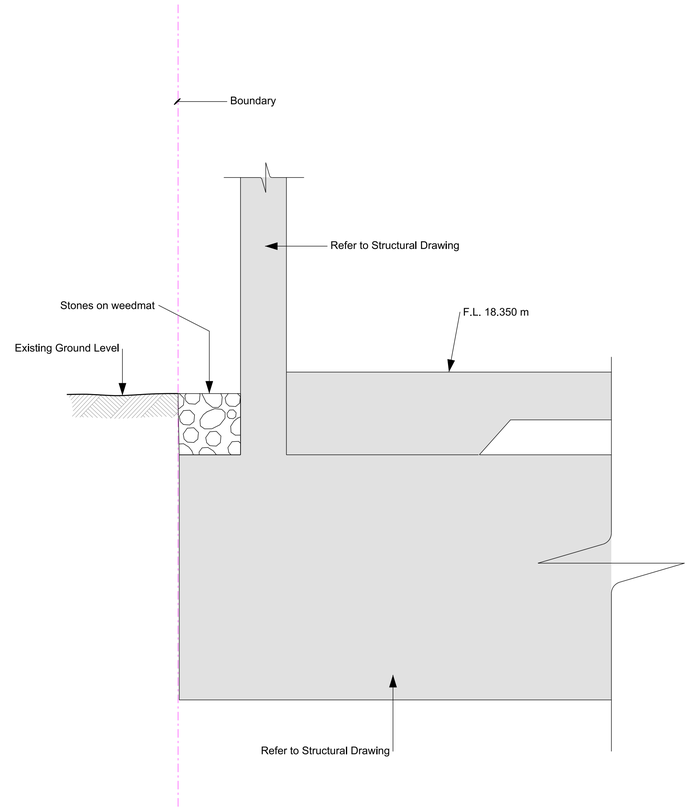
SCALES AT A1	FILE	DRAWING No.	ISSUE
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PROJECT:
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ISSUE	DATE	APPROVED	DESCRIPTION
1	29-07-2022	GC	CONSENT ISSUE

DESIGN:	JMa	22-07-2022
DES. CHECK:	JMa	22-07-2022
DRAWN:	JMa	22-07-2022
DWG CHECK:	JMa	22-07-2022

DRAWING TITLE:
CIVIL DETAILS

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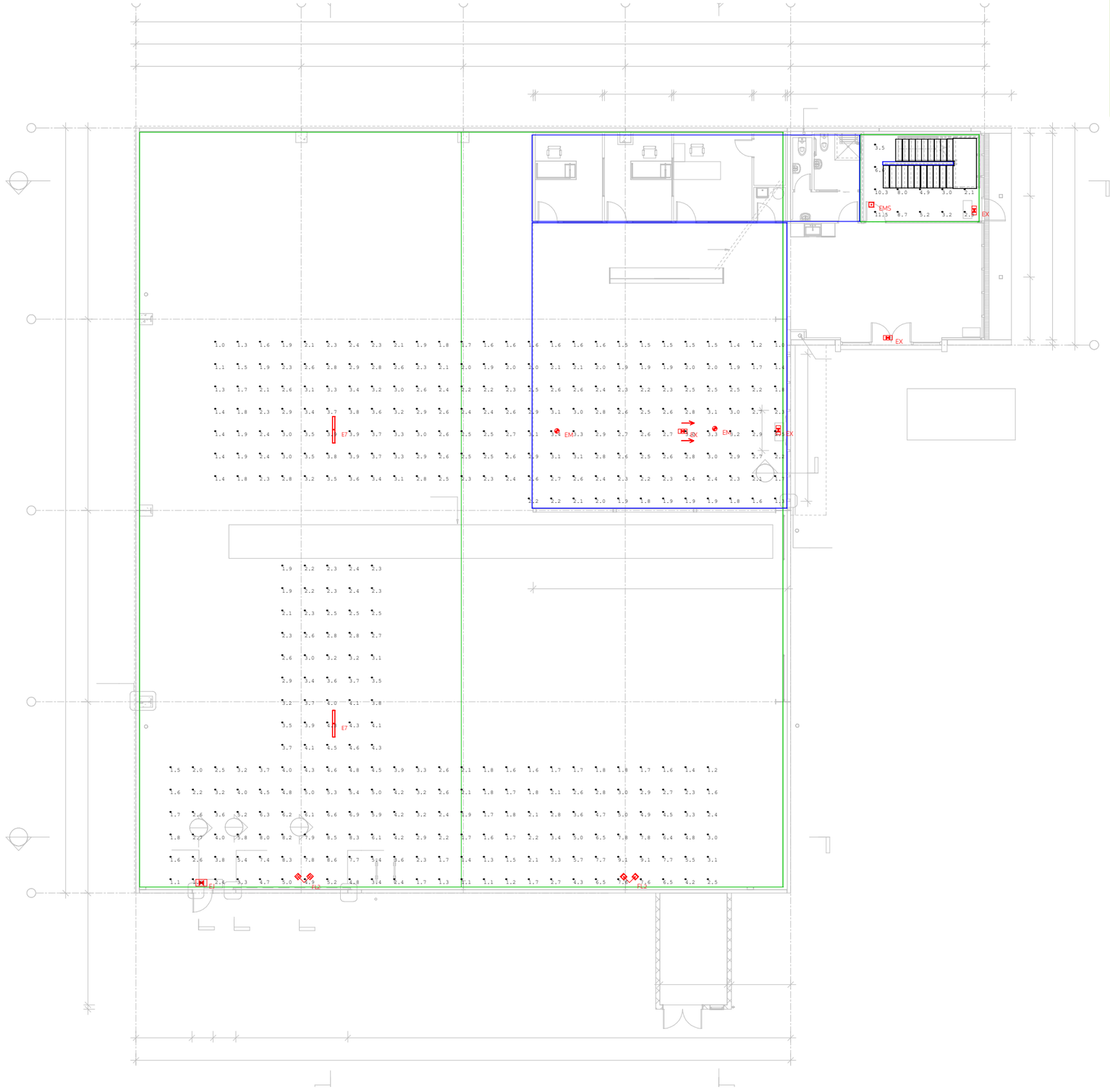
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ESC
ELECTRICAL SUPPLY CORP

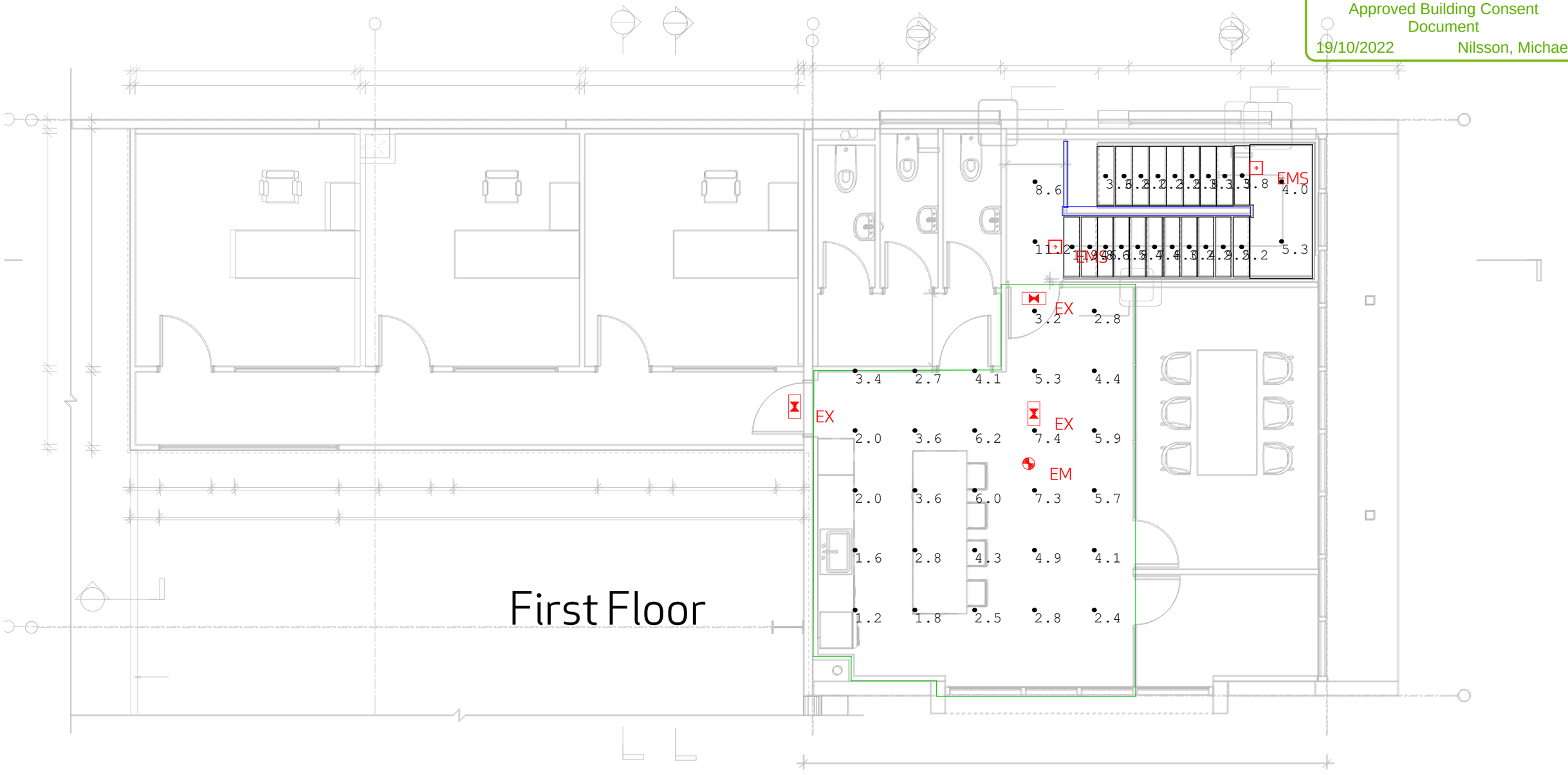
LOT 6
BELFAST RD WAREHOUSE
CHRISTCHURCH
EMERGENCY LIGHTING SUBMISSION
2/08/2022

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COMPANY	CLIENT	PROJECT TITLE	SHEET TITLE/FIRE REPORT	REV	Date	Design Date:	JOB NUMBER
ESC ELECTRICAL SUPPLY CORP	J.A. Russell Ltd ELECTRICAL & DATA SUPPLIERS; Radcliffe ELECTRICAL	LOT 6 BELFAST RD WAREHOUSE CHRISTCHURCH	EMERGENCY LIGHTING CALCULATIONS Calculation Type: direct Calculation Plane: floor level FIRE REPORT: Please read the lighting design in conjunction with Fire report from Powell Fenwick job ref- 220156/F April 2022	REV1	02/08/2022	2/08/2022	ESC11453
						Designed By:	PAGE NUMBER
						MD	Page 2 of 4

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First Floor

COMPANY	CLIENT	PROJECT TITLE		SHEET TITLE/FIRE REPORT	REV	Date	Design Date: / JOB NUMBER
ESC ELECTRICAL SUPPLY CORP	J.A. Russell Ltd ELECTRICAL & DATA SUPPLIERS; Radcliffe ELECTRICAL	LOT 6 BELFAST RD WAREHOUSE CHRISTCHURCH		EMERGENCY LIGHTING CALCULATIONS Calculation Type: direct Calculation Plane: floor level FIRE REPORT: Please read the lighting design in conjunction with Fire report from Powell Fenwick job ref- 220156/F April 2022	REV1	02/08/2022	2/08/2022 / ESC11453
							Designed By: / PAGE NUMBER
							MD / Page 3 of 4

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Luminaire Schedule					
Symbol	Qty	Label	Lumens	Description	Supplier
	2	E7	637.05	ECOBAT4EM-Stanilite LED Batten	ESC
	1	EJ	N.A.	PEJLEMCM-1 Jumbo EXIT	ESC
	3	EM	N.A.	ECOSPITFIRE	ESC
	3	EMS	322.18	ECOSPITFIREBOX -White or Black Availble	ESC
	7	EX	N.A.	ECOEXIT1BOX	ESC
	2	FL2	N.A.	FL26LIWP 2x3w LED IP65 Flood	ESC

Calculation Summary			
Label	Max	Min	Avg
FF Cafe	7.4	1.2	3.85
FF Stairs Landing	11.2	8.6	9.90
GF Stairs Landing	11.5	2.1	5.78
Main Warehouse Showroom	9.1	1.0	3.05
Stairs_Top_Total	11.4	2.0	4.49

Note: PLEASE NOTE SOME COUNCIL AUTHORITIES REQUIRE A PS4 SITE VISIT
CONTACT YOUR WHOLESALER FOR PRICING

Design Notes:
1. Please check this is the latest design before placing order.
2. Emergency lighting calculations are for a minimum of 0.2 lux for all escape routes exceeding the initial 20 meters of escape paths and a minimum of 1 lux for change in levels, stairs, ramps and exit ways as required by F6/AS1 1.3.1 using illuminance calculations as defined in AS2293.1: 2005 Section 5.4.2.3 and NZBC F6/AS1.
3. This emergency lighting design has been completed using illuminance calculations provided by an AGI 32 computer based lighting design program. All illuminance calculations are measured at floor level.
4. All exit lighting to comply with F8/AS1 of NZBC, and egress lighting to comply with F6/AS1 of NZBC.
5. Emergency Lighting system to be installed as per AS 2293.1:2005 and in conjunction with the compliance method detailed in the fire report.
6. Failure of normal supply to any final sub circuit supplying general lighting shall cause each emergency luminaire to be switched on automatically with the help of circuit/phase sensing relay. Please refer to the wiring diagram in AS 2293.1: 2005 Appendix C.
7. ALL EXIT LIGHTS TO BE RUNNING MAINTAINED & MUST REMAIN INTERNALLY ILLUMINATED AT ALL TIMES WHEN THE BUILDING IS IN USE.
8. Product substitution and/or changes to this lighting layout will void any accompanying Producer Statement. It may also result in non-compliance with relevant standards and/or the NZBC. If it is not possible to instal luminaires as per this design please contact the designer for a re-design to ensure compliance.
9. The design and the luminaires chosen are based solely on the information made available by the client without an inspection of the building, full specifications or plans.
10. Structural elements of the building may affect suitability of the luminaires, luminaire locations and overall design. The client will indemnify us from and against any claims, losses or liabilities resulting from this design.
11. Installer to provide PS3 for site installation to comply with this computer based design for types and spacing.
12. Routine service and maintenance shall be performed as detailed in AS/NZS 2293.2 2019.
13. An Emergency Lighting O & M manual (logbook) must be provided by installer as required by AS/NZS 2293.2:2019 Section 2.
14. The copyright to this design is owned by Electrical Supply Corp, do not reproduce or distribute this design without permission.

COMPANY	CLIENT	PROJECT TITLE	SHEET TITLE/FIRE REPORT	REV	Date	Design Date:	JOB NUMBER
ESC ELECTRICAL SUPPLY CORP	J.A. Russell Ltd ELECTRICAL & DATA SUPPLIERS Radcliffe ELECTRICAL	LOT 6 BELFAST RD WAREHOUSE CHRISTCHURCH	EMERGENCY LIGHTING CALCULATIONS Calculation Type: direct Calculation Plane: floor level FIRE REPORT: Please read the lighting design in conjunction with Fire report from Powell Fenwick job ref- 220156/F April 2022	REV1	02/08/2022	2/08/2022	ESC11453
						Designed By: MD	PAGE NUMBER Page 4 of 4

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TECHNICAL DATA SHEET

Stanilite®

Economy exit LED - slide connect

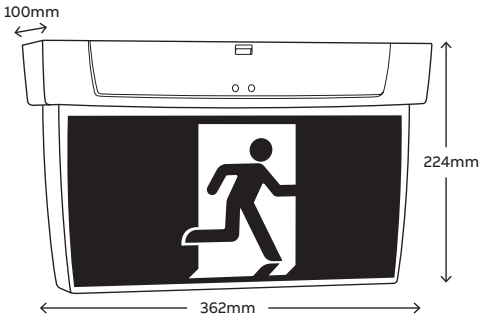


Catalogue no.	Description
EM products	
ECOEXIT1BOX	Economy exit LED pictograph
Spare parts	
03-01325	Battery LiFePO4 3.2V 1.5Ah

Range
Economy range

Product group
Exit LED

Features
- Emergency classification
- LED technology 75,000 hours lamp life
- Lithium iron phosphate battery for longer life
- Slide connect bracket that provides strength and enables quick installation and easy maintenance
- Ingress protection IP20
- Large terminal block for easy wiring
- Designed for direct replacement of installed economy exit LED EELED
- Includes all pictograph decal options
- Universal wall/ceiling mounting, can also be rod or wire suspended



Dimensions			
	Length	**Width**	**Height (incl. bracket)**
	362mm	100mm	224mm
Weight			
	Model	**Weight**	
	EM	2.0kg	
Construction			
	Part	**Construction**	
	Body	ABS	
	Diffuser	UV stabilised polycarbonate	
	Bracket	ABS	

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Light source

Model	Light source
EM	LED strip

Power consumption

Model	Power consumption
EM	4.5W

Note: Preliminary results

Photometrics

Model	Class	Classification
EM	C0	D3.2
	C90	D3.2

Note: Preliminary results

Note:
- Designed to comply with AS2293 and meet relevant Australian EMC standards

ABB Australia Pty Limited
Phone: 1800 60 20 20
E-mail: AU-ABB-Stanilite@abb.com

www.stanilite.com.au

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TECHNICAL DATA SHEET

Stanilite®

Economy Spitfire® LED recessed non-maintained

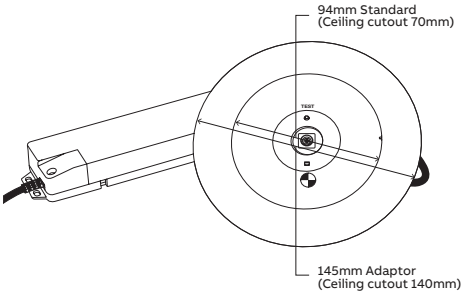


Catalogue no.	Description
EM products	
ECOSPITFIRE	Economy Spitfire LED recessed
Spare parts	
03-01226	Battery LiFePO4 6.4V 1.5Ah

Range
Economy range

Product group
Spitfire LED

Features
- Superior photometric classification
- LED technology 100,000 hours plus lamp life
- Low power consumption and LED light source for reduced operation and maintenance costs
- High temperature rated Lithium iron phosphate battery
- Spring fixing design allows for different ceiling thickness (1mm-20mm)
- White adaptors included to convert standard 94mm lamp head to 145mm diameter
- Non-maintained operation
- Ingress protection IP20
- Insulation class II
- SAA tested and approved



Dimensions		
	Lamp head	**Ceiling cutout**
	94mm standard	70mm
	145mm adaptor	140mm
Weight		
	Model	**Weight**
	EM	1.0kg
Construction		
	Part	**Construction**
	Lamp head	White polycarbonate

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Light source

Model	Light source
EM	3W

Power consumption

Model	Power consumption
EM	1.0W average

Note: Preliminary results

Photometrics

Model	Class	Classification
EM	C0	D40
	C90	D40

Note:
- Designed to comply with AS2293 and meet relevant Australian EMC standards

ABB Australia Pty Limited
Phone: 1800 60 20 20
E-mail: AU-ABB-Stanilite@abb.com

www.stanilite.com.au

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TECHNICAL DATA SHEET

Stanilite®

Economy Spitfire® LED surface mount non-maintained

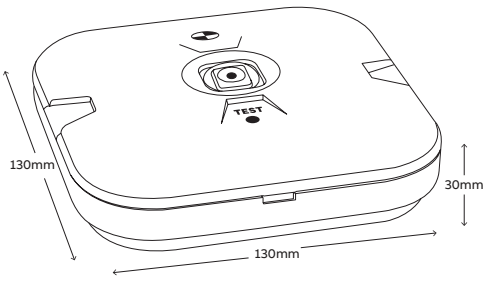


Catalogue no.	Description
EM products	
ECOSPITFIREBOX	Economy Spitfire LED surface mount
Spare parts	
03-01233	Battery LiFePO4 6.4V 1.5Ah

Range
Economy range

Product group
Spitfire LED

Features
- Quick and easy installation
- Superior photometric classification
- LED technology 100,000 hours plus lamp life
- Low power consumption and LED light source for reduced operation and maintenance costs
- Lithium iron phosphate battery
- Surface mount
- Non-maintained operation
- Ingress protection IP54
- Insulation class II
- SAA tested and approved



Dimensions			
	Length	**Width**	**Height**
	130mm	130mm	30mm
Weight			
	Model	**Weight**	
	EM	1.0kg	
Construction			
	Part	**Construction**	
	Body	Polycarbonate	

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19/10/2022 Nilsson, Michael

HELIOS LI





WARRANTY 3 YEAR WARRANTY

IP65

IP65 Non Maintained Emergency Twin Flood-Unit

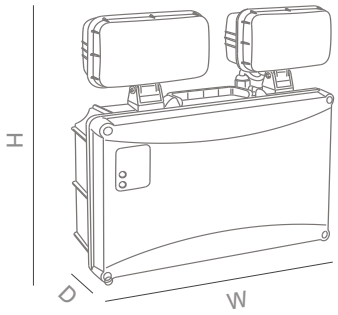
The Helios Li flood-unit is a versatile non-maintained Lithium iron (LiFePO4) surface mount emergency fitting, designed for Commercial and Industrial applications were a light source is required to identify egress routes over larger areas. The Helios flood-unit is tested to comply with AS/NZ 2293 and relevant EMC standards. An IES file is available for project specification.

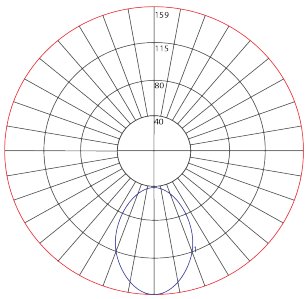
Code	Power	Delivered Lumens	Body Colour	Cutout mm	Dimensions mm	Weight kg
FL26LIWP	2x3W	379.2	White	N/A	300 (W) x 294 (H) x 70 (D)	2.3

Physical Features	
IP Rating:	IP65
Body:	Polycarbonate, white
Dimensions mm:	290 (W) x 287 (H) x 67 (D)
Operating Temperature:	10˚C - 40˚C
Operation:	Non-Maintained
Installation:	Wall / Surface
Power Supply:	AC200-240V, 50/60Hz

Light Quality	
Lifetime:	30,000 hrs
Beam Angle:	120˚

Battery Specifications	
Battery:	Lithium Battery
Voltage/Ah:	3.6V 6Ah Rechargeable
Charge Time:	16 hrs





Notes:

Full documentation available for download from www.electrical.co.nz

ESC ELECTRICAL SUPPLY CORP

4-8 Mainstreet Place
Hamilton, New Zealand 3200
www.electrical.co.nz

sales@electrical.co.nz
+64 7 849 9119
0800 350 000

Sales Rep:

Contact:

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19/10/2022
Nilsson, Michael

Light source

Model	Light source
EM	2W

Power consumption

Model	Power consumption
EM	1.0W average

Note: Preliminary results

Photometrics

Model	Class	Classification
EM	C0	D40
	C90	D40

Note:
- Designed to comply with AS2293 and meet relevant Australian EMC standards

ABB Australia Pty Limited
Phone: 1800 60 20 20
E-mail: AU-ABB-Stanilite@abb.com

www.stanilite.com.au

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TECHNICAL DATA SHEET

Stanilite®

Platinum exit LED jumbo

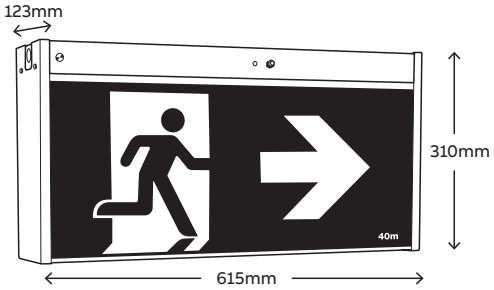


Range
Platinum range

Product group
Exit LED

Features
- High emergency classification
- LED technology 100,000 hours plus lamp life
- Low power consumption and LED light source for reduced operation and maintenance costs
- Advanced charging technology combined with Lithium iron phosphate battery for long life and low maintenance
- Microprocessor controlled integrated AC/ emergency LED driver
- Architecturally pleasing and lightweight design
- Available in all pictograph diffuser options
- Wall mount or ceiling mount versions available to cover all installation requirements
- Exit can also be suspended via jack chain, rod and lanyard (not supplied) if required
- Large terminal block (16mm²) for easy wiring
- Viewing distance 40m
- Protective wire guard available - ceiling/ suspended mount and wall mount

Catalogue no.	Description
EM products	
PEJLEMCM-1	Platinum exit LED jumbo emergency ceiling mount single sided picto
PEJLEMCM-2	Platinum exit LED jumbo emergency ceiling mount single sided <picto
PEJLEMCM-3	Platinum exit LED jumbo emergency ceiling mount single sided picto>
PEJLEMCM-5	Platinum exit LED jumbo emergency ceiling mount double sided picto
PEJLEMCM-6	Platinum exit LED jumbo LED emergency ceiling mount double sided picto AOW
Accessories	
PEJWMKIT	Bracket wall mounting economy jumbo exit white (kit contains 2 brackets)
26-CJMD007	Wire guard - wall mount
Spare parts	
03-01307P	Battery LiFePO4 6.4V 3.2Ah
31-PEJ1	DIFF ECO JUMBO 18W SS PICTO
31-PEJ2	DIFF ECO JUMBO 18W SS <PICTO
31-PEJ3	DIFF ECO JUMBO 18W SS PICTO>
31-PEJ5	DIFF ECO JUMBO 18W DS PICTO
31-PEJ6	DIFF ECO JUMBO 18W DS PICTO AOW



Dimensions			
	Length	**Width**	**Height**
	615mm	123mm	310mm
Weight			
	Model	**Weight**	
	EM	4.5kg	
Construction			
	Part	**Construction**	
	Body	White powder coated zinc steel	
	Diffuser	Opal acrylic	

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Light source

Model	Light source
EM	Multiple LED 4W

Power consumption

Model	Power consumption
EM	9W average, 12W maximum

Photometrics

Model	Class	Classification
EM	C0	D32
	C90	D10

Note: Preliminary results

Note:
- Designed to comply with AS2293 and meet relevant Australian EMC standards

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Phone: 1800 60 20 20
E-mail: AU-ABB-Stanilite@abb.com

www.stanilite.com.au

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TECHNICAL DATA SHEET

Stanilite®

Economy batten LED - 4 foot

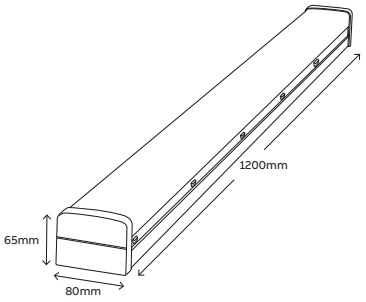


Catalogue no.	Description
AC/EM products	
ECOBAT4AC	Economy batten LED AC 3800 lumens
ECOBAT4EM	Economy batten LED EM 3800 lumens maintained
Spare parts	
03-01227	Battery LiFePO4 6.4V 3.0Ah

Range
Economy range

Product group
Batten LED

Features
- Typically 3,800 lumens on mains AC operation, 635 lumens in emergency operation
- IP40
- IK06 impact rating
- Long LED life 50,000 hours
- Colour temperature 4,000K
- High colour rendering index CRI>80
- High temperature rated Lithium iron phosphate battery
- Large terminal block for quick and easy installation
- Lanyard attached to the lamp and base body makes installation easier
- Frosted diffuser for even light distribution
- Insect proof sealed LED module
- Can be surface mounted or suspended
- AC efficacy typically 100 lumens/watt
- Ambient operating temperature; AC 0°C to +40°C and EM +10°C to +40°C



Dimensions			
	Length	**Width**	**Height**
	1200mm	80mm	65mm
Weight			
	Model	**Weight**	
	AC	2.1kg	
	EM	2.8kg	
Construction			
	Part	**Construction**	
	Base body	Powder coated steel	
	Lamp body, end cap and diffuser	Polycarbonate and aluminium	

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Light source

Model	Light source
AC/EM	LED strips

Power consumption

Model	Normal	S/A off	Standby
AC	40W	0W	N/A
EM	45W	5W	N/A

Note: Preliminary results

Photometrics

Model	Class	Classification
EM	C0	D80
	C90	D50

Note: Preliminary results

Note:
- AC designed to comply with AS/NZS60598.2.1 and meet relevant Australian EMC standards
- EM designed to comply with AS2293.3 and meet relevant Australian EMC standards

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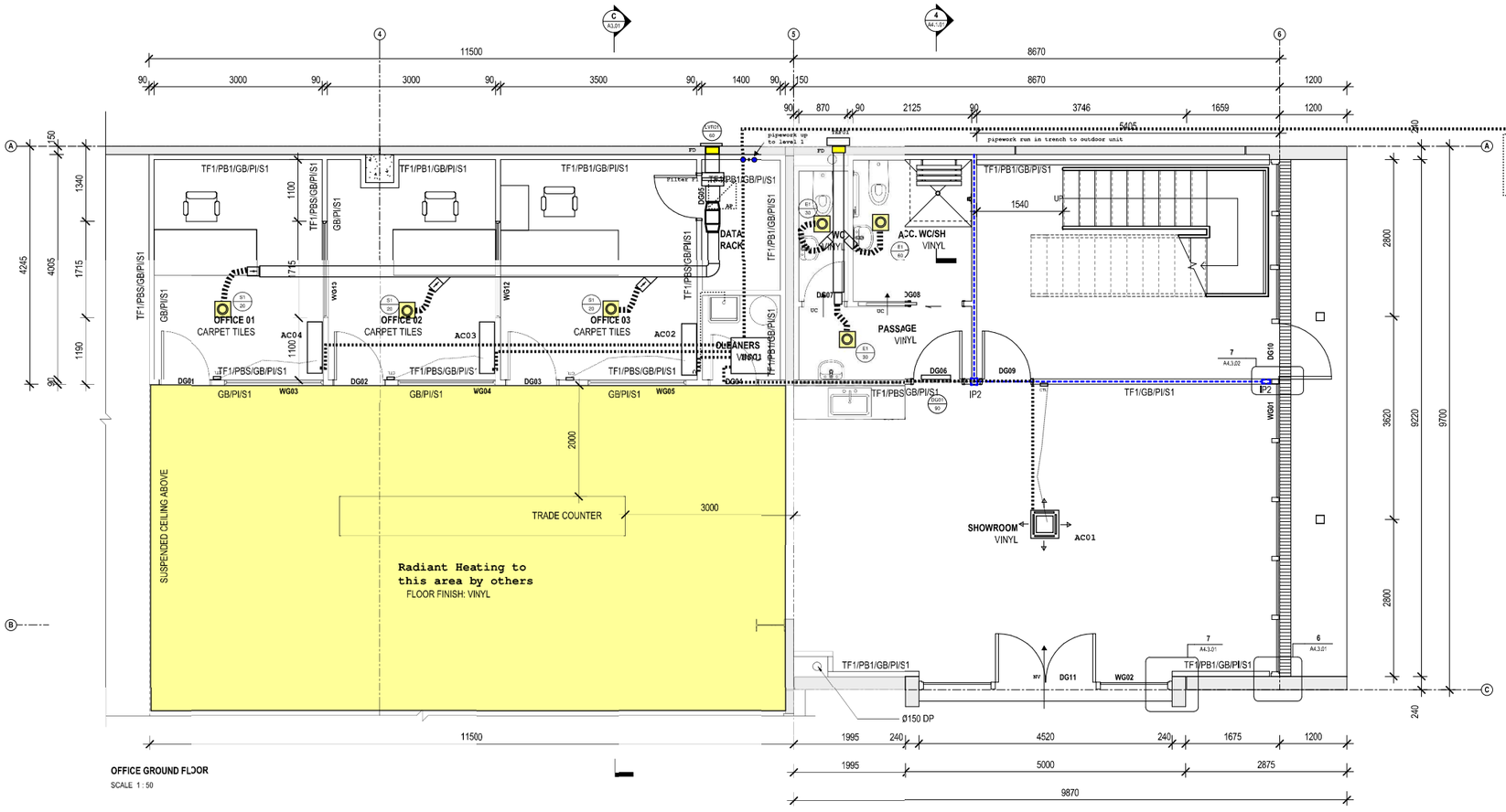
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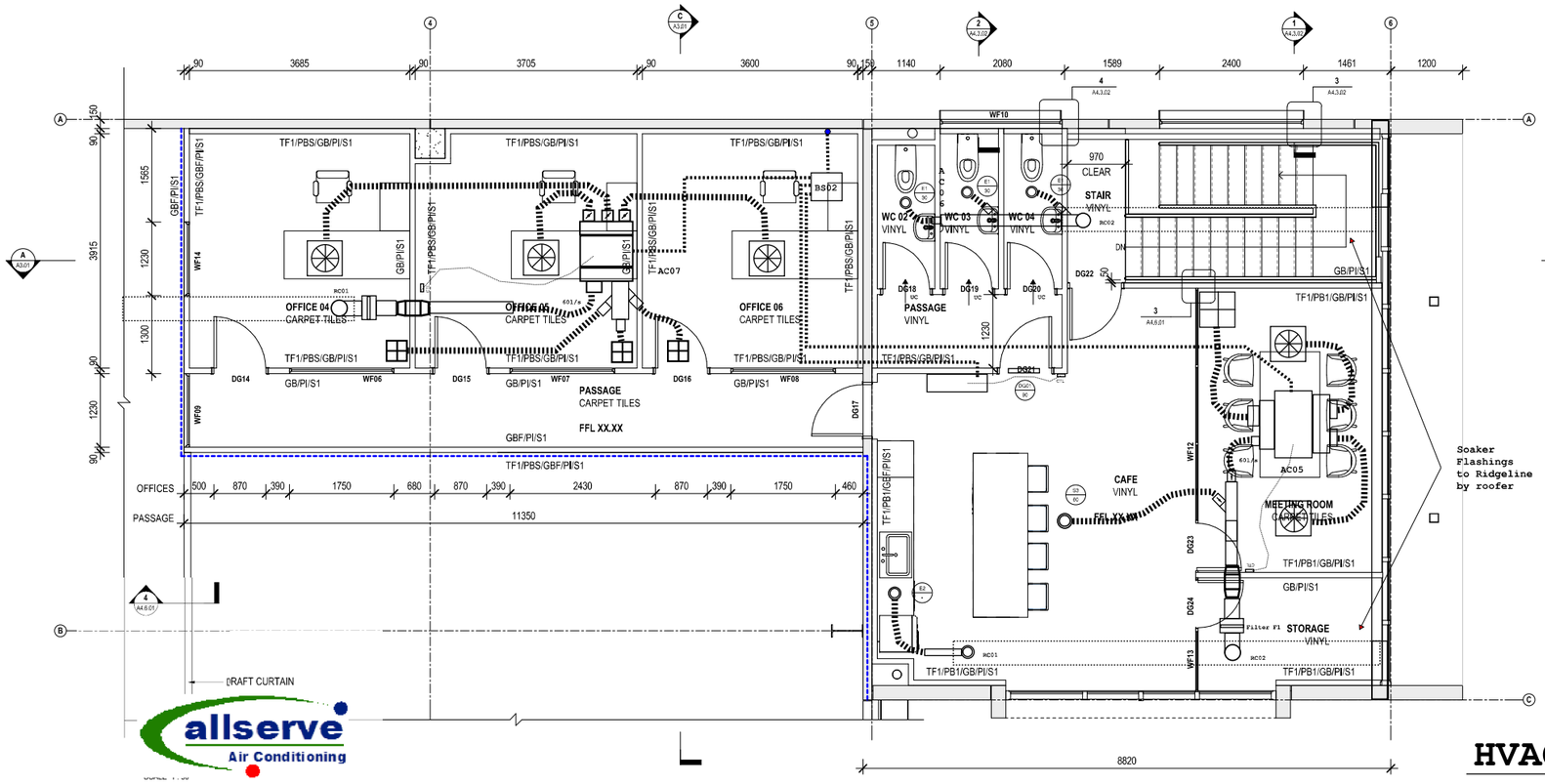
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OFFICE GROUND FLOOR
SCALE 1 : 50



SCHEDULE

Air-Conditioning

Ref	Make	Model		kW Heat / Cool (nom)
AC01	Daikin	Cassette	FXSFQ80	9.0 / 8.0
AC02	Daikin	Hiwall	FXAQ20	2.0 / 2.5
AC03	Daikin	Hiwall	FXAQ20	2.0 / 2.5
AC04	Daikin	Hiwall	FXAQ20	2.0 / 2.5
AC05	Daikin	Ducted	FXSQ32	3.5 / 4.0
AC06	Daikin	Hiwall	FXAQ50	5.0 / 6.0
AC07	Daikin	Ducted	FXSQ63	6.5 / 8.0
ODU01	Daikin	Outdoor	REYQ14TAY1	40.kW nom

Ventilation

Ref	Make	Model		l/s
TEF01	Smoothair	Wall Fan	Mon150LB-2E	120
TEF02	Smoothair	Roof Fan	Mon150L-2E	90
KEF01	Smoothair	Roof Fan	Mon150M-2E	60
FAF01	Vents	In line	VETT150M silent	60 (low)
FAF02	Vents	In line	VETT150M silent	120 (high)
FAF03	Vents	In line	VETT150M silent	60 (low)
WT01-4	Fantech	Roof Ventilator	SV600 dia	360- 840

Grilles / Cowls

Ref	Make	Model	Size
E1	Snoothair	PYCD150	150 X 150 (use Firepro FD40 CM4-150 grille box)
E2	Smoothair	PYCD150	150mm dia
S1	Smoothair	PYCD150	150mm dia (use Firepro FD40 CM4-150 grille box)
S2	Holyoake	CSS-24 Swirl	595 X 595 inlay
S1	Smoothair	PYCD150	150mm dia
RC01	Smoothair	MON150	150mm dia
RC02	Smoothair	MON200	200mm dia

Filters

Ref	Make	Model	Size
F1	Smoothiar	FBMA400	400 X 400

All HVAC equipment designed and installed to comply with the NZBC ins accordance with AS/NZS 1668.2.2002 and H 1.3.6

Toilet Extract 25 l/s per fixture
Fresh Air 10l/s per person or via Natural ventilation openings >5% of nett floor area

NORTH

CLIENT
ZEAL CONSTRUCTION

CONSULTANTS
ENGENIUM CONSULTING ENGINEERS
POWELL FENWICK

INDUSTRIAL DEVELOPMENT
LOT 6/61 BELFAST ROAD
BELFAST ROAD
CHRISTCHURCH

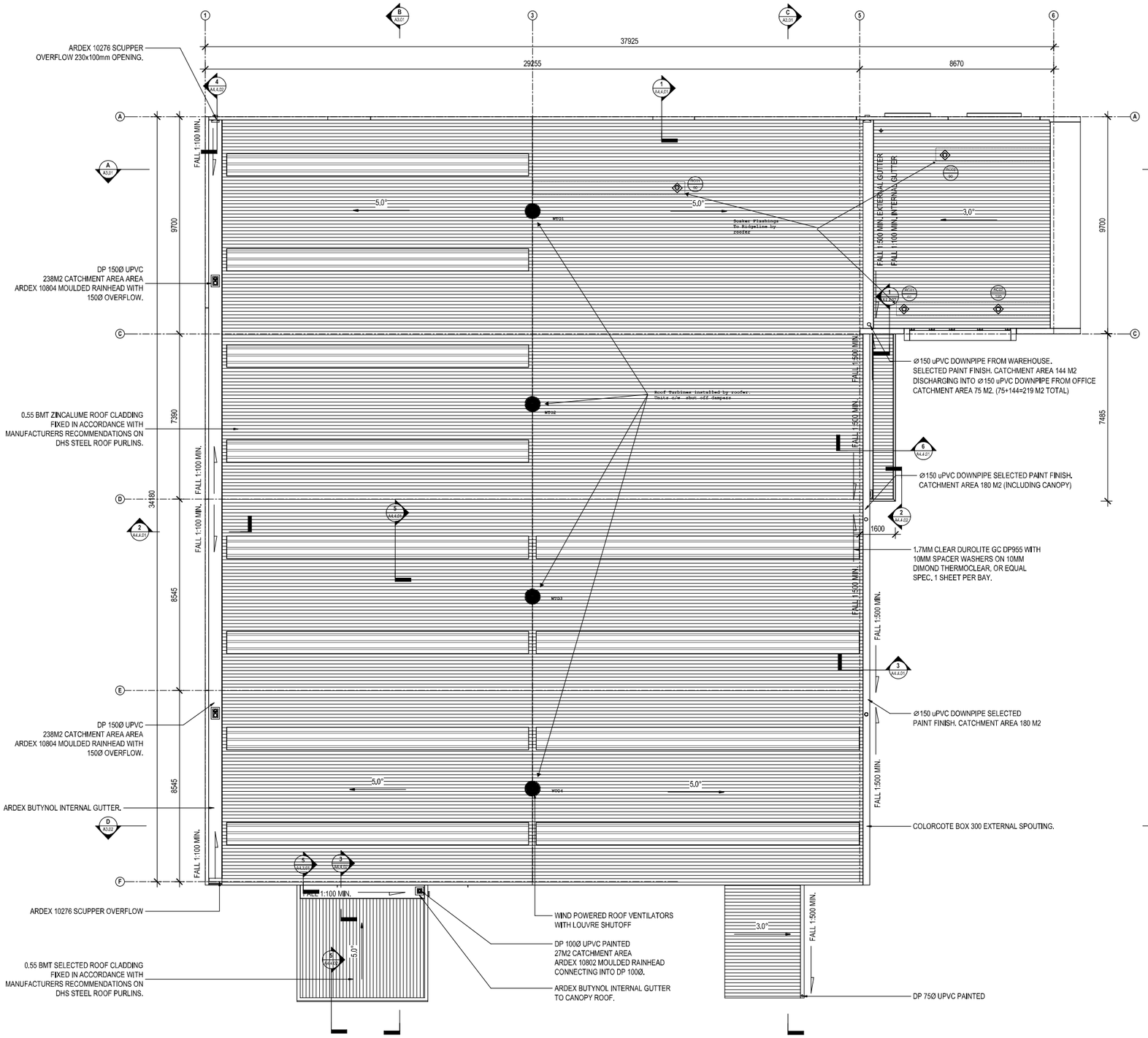
OFFICE FLOOR PLANS

SCALE @ A1	As indicated
DATE	25.07.2022
JOB No.	2154
DRAWN	NLC
CHECKED	RT
STATUS	BUILDING CONSENT
DRAWING No.	REVISION
A1.02	

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HVAC Layout - M01 - Consent Issue

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ROOF PLAN
SCALE 1 : 100

allserve Air Conditioning

Roof Layout - M02 - For Consent

NORTH

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ZEAL CONSTRUCTION

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INDUSTRIAL DEVELOPMENT
LOT 6/61 BELFAST ROAD
BELFAST ROAD
CHRISTCHURCH

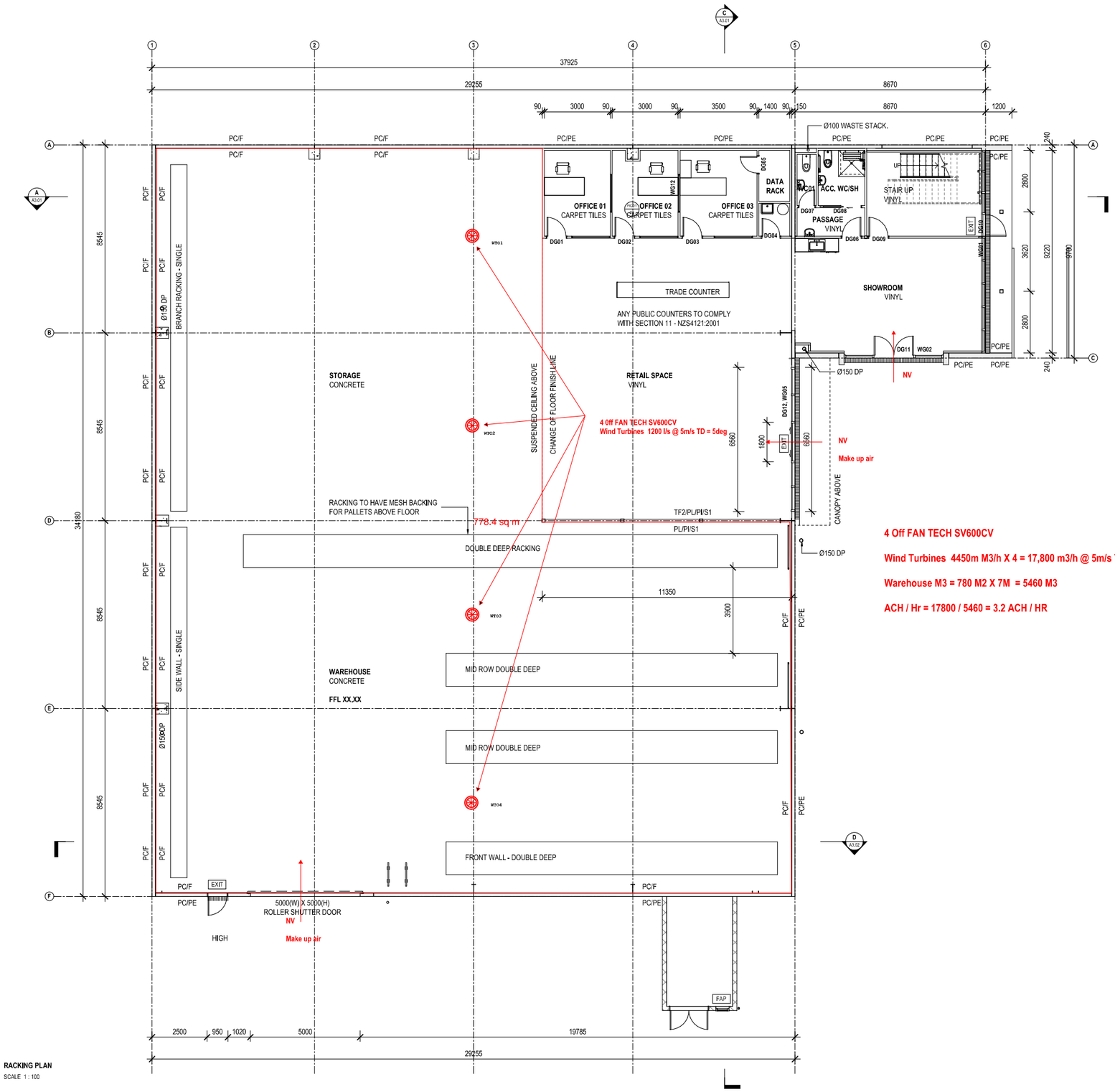
ROOF PLAN

SCALE @ A1	1 : 100
DATE	25.07.2022
JOB No.	2154
DRAWN	NLC
CHECKED	RT
STATUS	BUILDING CONSENT
DRAWING No.	REVISION
A1.03	

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RACKING PLAN
SCALE 1 : 100

Warehouse Ventilation Layout - M03

4 Off FAN TECH SV600CV

Wind Turbines 4450m M3/h X 4 = 17,800 m3/h @ 5m/s TD5deg

Warehouse M3 = 780 M2 X 7M = 5460 M3

ACH / Hr = 17800 / 5460 = 3.2 ACH / HR

allserve Air Conditioning

NORTH

CLIENT
ZEAL CONSTRUCTION

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INDUSTRIAL DEVELOPMENT
LOT 6/61 BELFAST ROAD
BELFAST ROAD
CHRISTCHURCH

RACKING PLAN

SCALE @ A1	1 : 100
DATE	25.07.2022
JOB No.	2154
DRAWN	NLC
CHECKED	RT
STATUS	BUILDING CONSENT
DRAWING No.	REVISION
A1.04	

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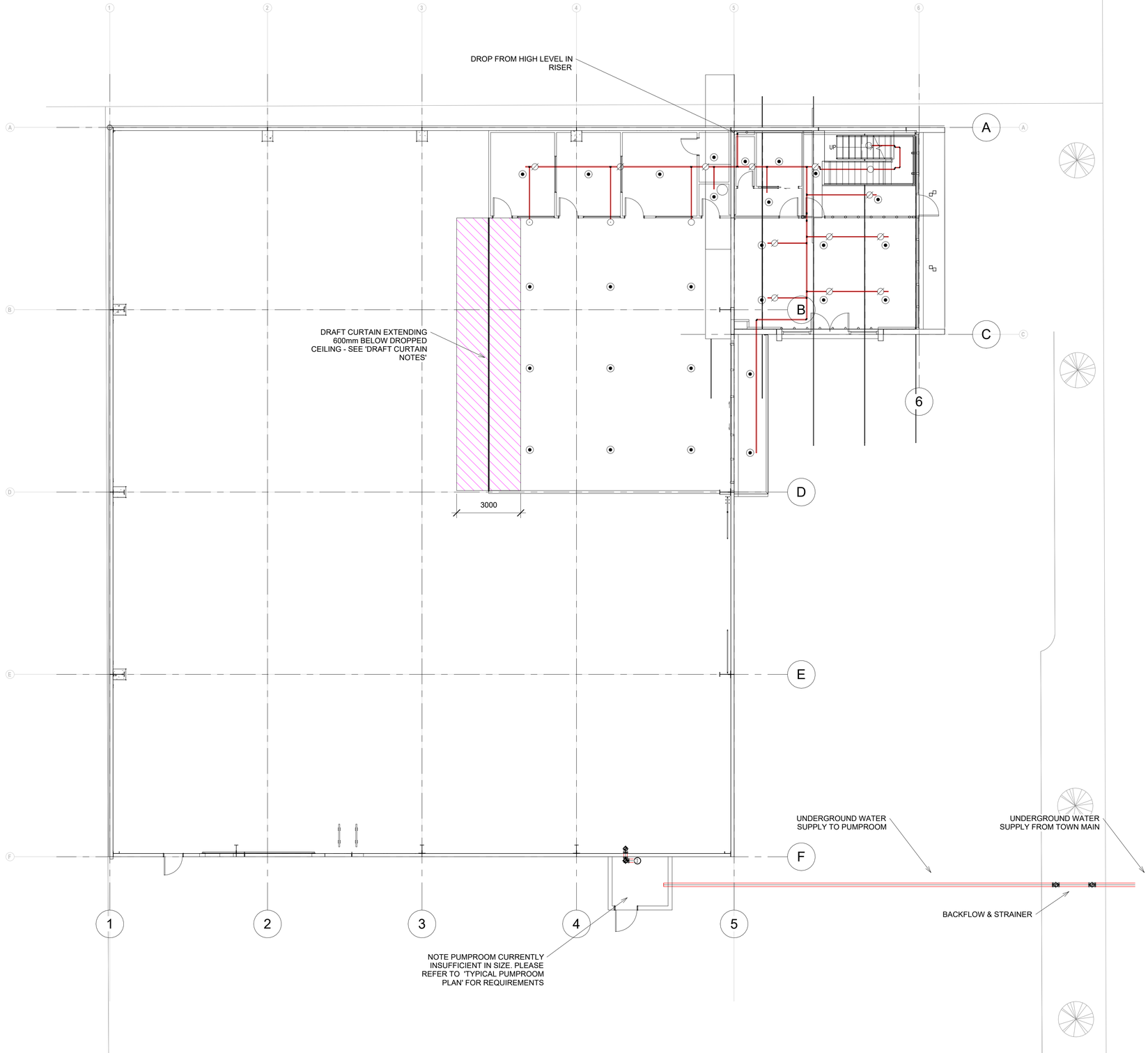
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ALL DIMENSIONS ON THE HORIZONTAL U.N.O

LEGEND:

- SPRINKLER PIPEWORK - RANGES
- 15mm SPRINKLER INSTALLED ON DROPPER
- 15mm SPRINKLER INSTALLED ON DROPPER - FLUSH TYPE
- 15mm SPRINKLER INSTALLED EXPOSED - PENDENT
- 15mm SPRINKLER INSTALLED EXPOSED - UPRIGHT
- 15mm SPRINKLER INSTALLED IN C/S - PENDENT
- 15mm SPRINKLER INSTALLED IN C/S - UPRIGHT
- 20mm K11.5 SPRINKLER INSTALLED EXPOSED - PENDENT
- 25mm K32 SPRINKLER INSTALLED EXPOSED - PENDENT
- '93' ON ANY SYMBOL DENOTES 93°C SPRINKLER
- 'G' ON ANY SYMBOL DENOTES GUARDS ON SPRINKLER
- 'CR' ON ANY SYMBOL DENOTES CORROSION RESISTANT FINISH



STRUCTURAL NOTES:

- RANGE PIPES (PERPINDICULAR TO PURLINS) SUPPORTED AT PURLINS. LOAD @ EACH SUPPORT 0.4 kN

- MAIN PIPES (APARALLEL TO MAINS) SUPPORTED AT BEAMS WITH INTERMEDIATE SUPPORT BY TRAPEZE FIXED AT TWO PURLINS. LOAD @ EACH SUPPORT 0.9 kN

- BRACING TYPCIALLY BACK TO MAIN STRUCTURAL ELEMENTS EXCEPT AT END OF EACH MAIN. ENGINEER TO APPROVE 3.55 kN HORIZONTAL LOAD SPREAD ACCROSS TWO PURLINS (TRAPEZE FIXED AT EACH PURLIN)

DRAFT CURTAIN NOTES:

- DRAFT CURTAIN REQUIRED TO SEPERATE HIGH HAZARD AREA FROM ORDINARY HAZARD AREA

- DRAFT CURTAIN MUST EXTEND LENGTH OF THE DROPPED CEILING BETWEEN OFFICES AND GRID D

- DRAFT CURTAIN MUST EXTEND 600mm BELOW CEILING

- DRAFT CURTAIN TO BE CONSTRUCTED FROM 10mm GIB OR 0.6mm SHEET STEEL

- CLEAR ISLE OF 1.5m DIRECTLY BELOW DRAFT CURTAIN WHERE NO STORAGE PERMITTED (HATCHED AREA ON PLAN)

RACKING NOTES:

- NO RESTRICTION TO RACK POSITION

- NO IN-RACK SPRINKLER PROTECTION REQUIRED

- STORAGE NOT PERMITTED WITHIN 900mm VERTICALLY OF SPRINKLER

- IF SHELVING INSTALLED WITHIN RACKS MUST BE OF MESH / GRATED CONSTRUCTION AND BE AT LEAST 70% OPEN

- 150mm FLUE SPACE (UNINTERUPTED OPEN SPACE AT RACKING UPRIGHTS) REQUIRED APPROX EVERY 3m

GENERAL SERVICES COORDINATION NOTES

- LIGHTING SIZE AND POSITION IS CRITICAL TO THE PERFROMANCE OF HIGH HAZARD STORAGE SPRINKLERS . STRONGLY SUGGEST CAREFUL COORDINATION WITH SPRINKLER DESIGNER INPUT

- VENTILATION CAN DELAY THE OPERATION OF HIGH HAZARD STORAGE SPRINKLERS. STRONGLY SUGGEST CAREFUL COORDINATION WITH SPRINKLER DESIGNER INPUT

PUMPROOM NOTES:

- PUMPROOM CURRENTLY INSUFFICIENT IN SIZE. PLEASE REFER TO "PUMPROOM TYPICAL LAYOUT" SUPPLIED

1 GF - FIRE SPRINKLER
1 : 100

FIRE SPRINKLER SYSTEM DESIGNED TO NZS4541:2020

HANGER NOTES:

- REFER TO HANGER / BRACE DETAILS FOR COMPONENTS AND MAXIMUM SPACINGS OF HANGERS & BRACES
- MINIMUM 50mm CLEARANCE REQUIRED BETWEEN ANY SPRINKLER PIPEWORK & OTHER RESTRAINED SERVICE
- ALL HANGING & BRACING EQUIPMENT REQUIRED TO BE AON LISTED. DO NOT SUBSTITUTE WITHOUT CONSULTING SPRINKLER DESIGNER
- UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON RANGE SHALL NOT BE MORE THAN 900mm FOR Ø25 PIPE AND 1200mm FOR Ø32 PIPE AND LARGER.
- UNSUPPORTED ARM PIECES SHALL NOT BE MORE THAN 600mm
- SEISMIC BRACING IS NOT REQUIRED ON PIPEWORK Ø50 OR LESS WHEN THREADED ROD IS LESS THAN 150mm.
- SEISMIC BRACING REQUIRED ON ALL PIPEWORK LARGER THAN Ø50 REGARDLESS OF THREADED ROD LENGTH.
- FLEXIBLE COUPLINGS SHALL BE INSTALL ON ANY RISER LARGE THAN Ø40 THAT RISES MORE THAN 1800mm
- FLEXIBLE COUPLINGS SHALL BE INSTALLED WHEN CROSSING ANY FIRE WALL UNLESS NOTED OTHERWISE
- BRACE OR HANGER (WHEN BRACING NOT REQUIRED) SHALL BE INSTALLED WITHIN 600mm OF ANY FLEXIBLE COUPLING

REVISIONS:

REV NO:	DESCRIPTION:	DATE:
A	PRELIMINARY / COORDINATION	17/6/22

CLIENT:

Evolve Fire Protection

DESIGNER:

FIREPRO DESIGN LTD

DATE:	17/6/22
DESIGNED:	DM
CHECKED:	DM

SCALE @ A1: 1 : 100

LOT 6 - BELFAST ROAD
CHRISTCHURCH

GROUND FLOOR
FIRE SPRINKLER LAYOUT

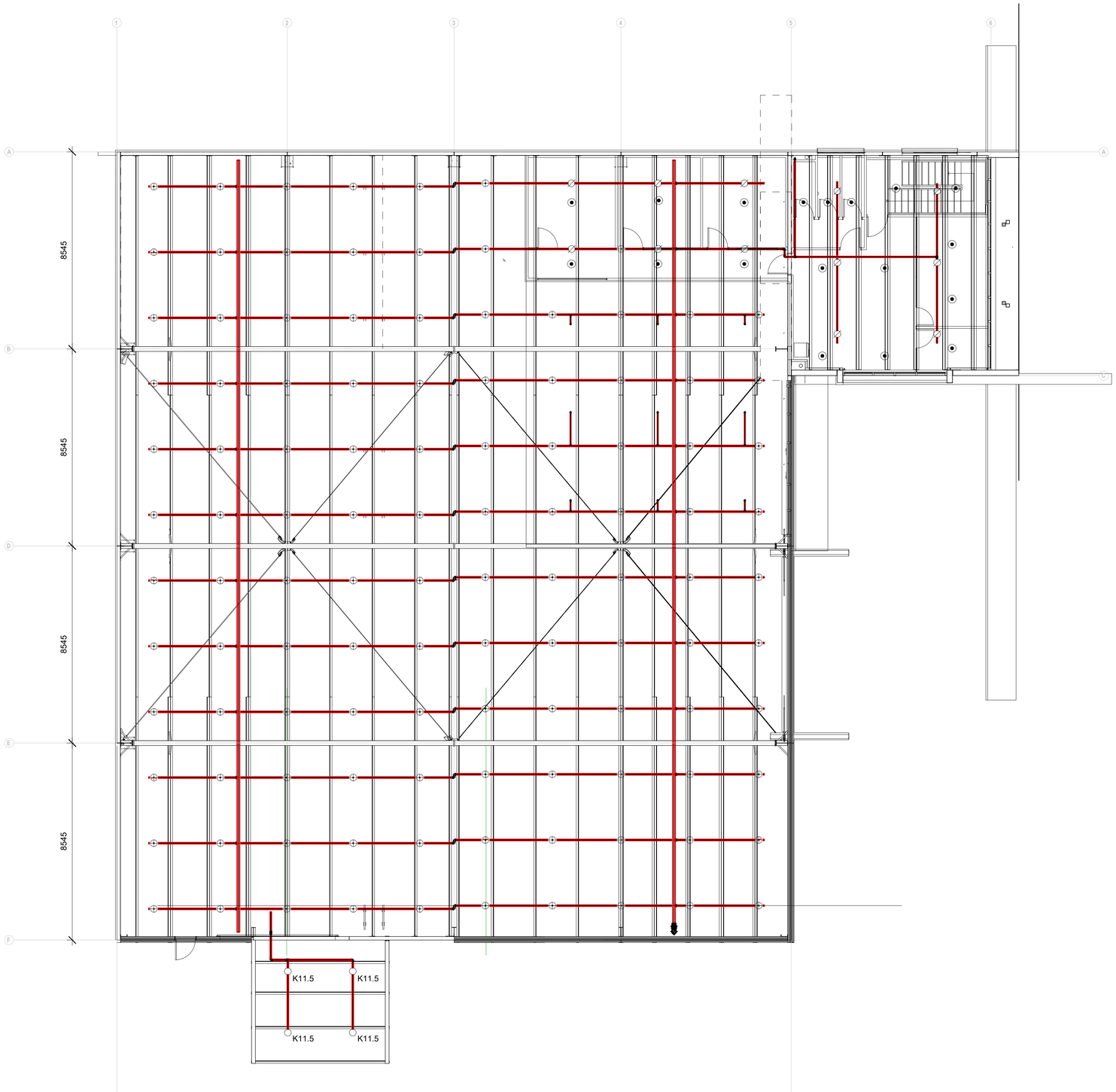
PROJECT NO:	DRAWING NO:	REVISION NO:
0013	0013-FS-01	A

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ALL DIMENSIONS ON THE HORIZONTAL U.N.O

LEGEND:

- SPRINKLER PIPEWORK - RANGES
- 15mm SPRINKLER INSTALLED ON DROPPER
- 15mm SPRINKLER INSTALLED ON DROPPER - FLUSH TYPE
- 15mm SPRINKLER INSTALLED EXPOSED - PENDENT
- 15mm SPRINKLER INSTALLED EXPOSED - UPRIGHT
- 15mm SPRINKLER INSTALLED IN C/S - PENDENT
- 15mm SPRINKLER INSTALLED IN C/S - UPRIGHT
- K11.5 — 20mm K11.5 SPRINKLER INSTALLED EXPOSED - PENDENT
- K32 — 25mm K32 SPRINKLER INSTALLED EXPOSED - PENDENT
- 93 — '93' ON ANY SYMBOL DENOTES 93°C SPRINKLER
- G — 'G' ON ANY SYMBOL DENOTES GUARDS ON SPRINKLER
- CR — 'CR' ON ANY SYMBOL DENOTES CORROSION RESISTANT FINISH



1 FF - FIRE SPRINKLER
1 : 100

STRUCTURAL NOTES:

- RANGE PIPES (PERPINDICULAR TO PURLINS) SUPPORTED AT PURLINS. LOAD @ EACH SUPPORT 0.4 kN

- MAIN PIPES (APARALLEL TO MAINS) SUPPORTED AT BEAMS WITH INTERMEDIATE SUPPORT BY TRAPEZE FIXED AT TWO PURLINS. LOAD @ EACH SUPPORT 0.9 kN

- BRACING TYPCIALLY BACK TO MAIN STRUCTURAL ELEMENTS EXCEPT AT END OF EACH MAIN. ENGINEER TO APPROVE 3.55 kN HORIZONTAL LOAD SPREAD ACCROSS TWO PURLINS (TRAPEZE FIXED AT EACH PURLIN)

DRAFT CURTAIN NOTES:

- DRAFT CURTAIN REQUIRED TO SEPERATE HIGH HAZARD AREA FROM ORDINARY HAZARD AREA

- DRAFT CURTAIN MUST EXTEND LENGTH OF THE DROPPED CEILING BETWEEN OFFICES AND GRID D

- DRAFT CURTAIN MUST EXTEND 600mm BELOW CEILING

- DRAFT CURTAIN TO BE CONSTRUCTED FROM 10mm GIB OR 0.6mm SHEET STEEL

- CLEAR ISLE OF 1.5m DIRECTLY BELOW DRAFT CURTAIN WHERE NO STORAGE PERMITTED (HATCHED AREA ON PLAN)

RACKING NOTES:

- NO RESTRICTION TO RACK POSITION

- NO IN-RACK SPRINKLER PROTECTION REQUIRED

- STORAGE NOT PERMITTED WITHIN 900mm VERTICALLY OF SPRINKLER

- IF SHELVING INSTALLED WITHIN RACKS MUST BE OF MESH / GRATED CONSTRUCTION AND BE AT LEAST 70% OPEN

- 150mm FLUE SPACE (UNINTERUPTED OPEN SPACE AT RACKING UPRIGHTS) REQUIRED APPROX EVERY 3m

GENERAL SERVICES COORDINATION NOTES

- LIGHTING SIZE AND POSITION IS CRITICAL TO THE PERFROMANCE OF HIGH HAZARD STORAGE SPRINKLERS . STRONGLY SUGGEST CAREFUL COORDINATION WITH SPRINKLER DESIGNER INPUT

- VENTILATION CAN DELAY THE OPERATION OF HIGH HAZARD STORAGE SPRINKLERS. STRONGLY SUGGEST CAREFUL COORDINATION WITH SPRINKLER DESIGNER INPUT

PUMPROOM NOTES:

- PUMPROOM CURRENTLY INSUFFICIENT IN SIZE. PLEASE REFER TO "PUMPROOM TYPICAL LAYOUT" SUPPLIED

FIRE SPRINKLER SYSTEM DESIGNED TO NZS4541:2020

HANGER NOTES:

- REFER TO HANGER / BRACE DETAILS FOR COMPONENTS AND MAXIMUM SPACINGS OF HANGERS & BRACES
- MINIMUM 50mm CLEARANCE REQUIRED BETWEEN ANY SPRINKLER PIPEWORK & OTHER RESTRAINED SERVICE
- ALL HANGING & BRACING EQUIPMENT REQUIRED TO BE AON LISTED. DO NOT SUBSTITUTE WITHOUT CONSULTING SPRINKLER DESIGNER
- UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON RANGE SHALL NOT BE MORE THAN 900mm FOR Ø25 PIPE AND 1200mm FOR Ø32 PIPE AND LARGER.
- UNSUPPORTED ARM PIECES SHALL NOT BE MORE THAN 600mm
- SEISMIC BRACING IS NOT REQUIRED ON PIPEWORK Ø50 OR LESS WHEN THREADED ROD IS LESS THAN 150mm.
- SEISMIC BRACING REQUIRED ON ALL PIPEWORK LARGER THAN Ø50 REGARDLESS OF THREADED ROD LENGTH.
- FLEXIBLE COUPLINGS SHALL BE INSTALL ON ANY RISER LARGE THAN Ø40 THAT RISES MORE THAN 1800mm
- FLEXIBLE COUPLINGS SHALL BE INSTALLED WHEN CROSSING ANY FIRE WALL UNLESS NOTED OTHERWISE
- BRACE OR HANGER (WHEN BRACING NOT REQUIRED) SHALL BE INSTALLED WITHIN 600mm OF ANY FLEXIBLE COUPLING

REVISIONS:

REV NO:	DESCRIPTION:	DATE:
A	PRELIMINARY / COORDINATION	2/6/22

CLIENT:

Evolve Fire Protection

DESIGNER:

FIREPRO DESIGN LTD

DATE:	05/30/22
DESIGNED:	Designer
CHECKED:	Checker

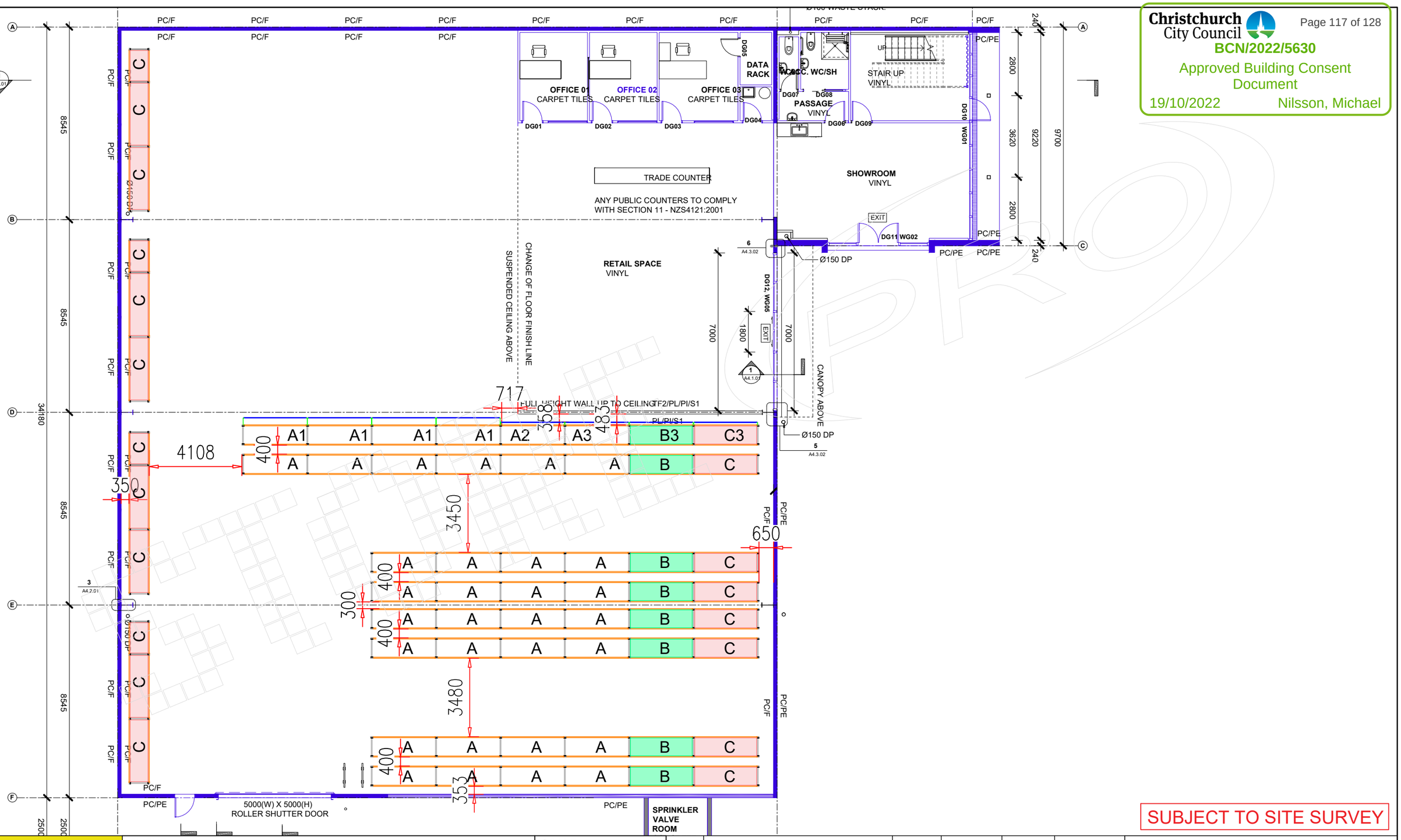
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LOT 6 - BELFAST ROAD CHRISTCHURCH

FIRST FLOOR FIRE SPRINKLER LAYOUT

PROJECT NO:	DRAWING NO:	REVISION NO:
0013	0013-FS-02	A

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19/10/2022 Nilsson, Michael



SUBJECT TO SITE SURVEY

STOREPRO SOLUTIONS LIMITED
PO Box 112122, Penrose, Auckland, 1642
P: +64 9 275 5533 F: 64 9 255 5226

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CLIENT: J.A. Russell

SITE: 61 Belfast Rd, Belfast,Christchurch

TITLE: Floor Layout

Opportunity No/ DRAWING No:	QUOTE No/SALES No:	SHEET SIZE
OPPAK05633-1	QTAK	A3

SCALE: NTS

ORIGINATOR:

DRAWN: JH

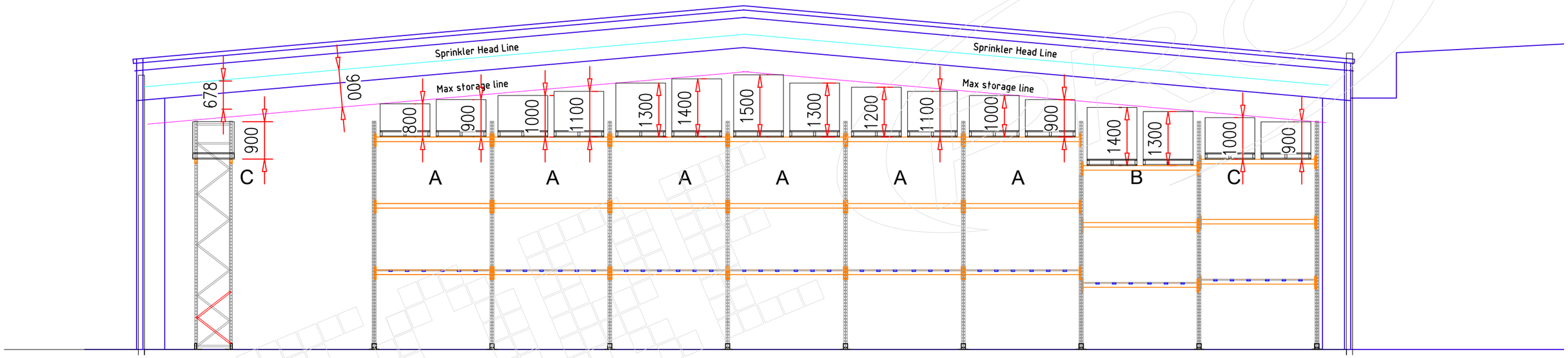
All dimensions shown are in MM otherwise specified. Site verification is required prior to installation.

REV	AMENDMENT	REV BY	DATE	CHK BY	CHK DATE
D	Maximum storage line marked	JH	8/07/22	GT	8/07/22
C	Sprinkler line marked	JH	28/06/22	GT	28/06/22
B	Mesh added	JH	14/06/22	GT	14/06/22
A	Elevations changed, Mesh added	JH	20/05/22	GT	20/05/22
	ORIGINAL	JH	11/05/22	GT	11/05/22

DRAWING APPROVED
NAME:
SIGNATURE:
DATE:

NOTE:
This proposed drawing will be part of the contract and it will be deemed invalid if it is not signed off.
Indicated loads are subject to concrete slab and soil type
This design is subject to fire and emergency lighting report findings.

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19/10/2022 Nilsson, Michael



SUBJECT TO SITE SURVEY

STOREPRO Raising the level of your business

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CLIENT: J.A. Russell

SITE: 61 Belfast Rd, Belfast,Christchurch

TITLE: Floor Layout

Opportunity No/ DRAWING No:	QUOTE No/SALES No:	SHEET SIZE
OPPAK05633-2	QTAK	A3

SCALE: NTS

ORIGINATOR:

DRAWN: JH

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	ORIGINAL	JH	11/05/22	GT	11/05/22

DRAWING APPROVED

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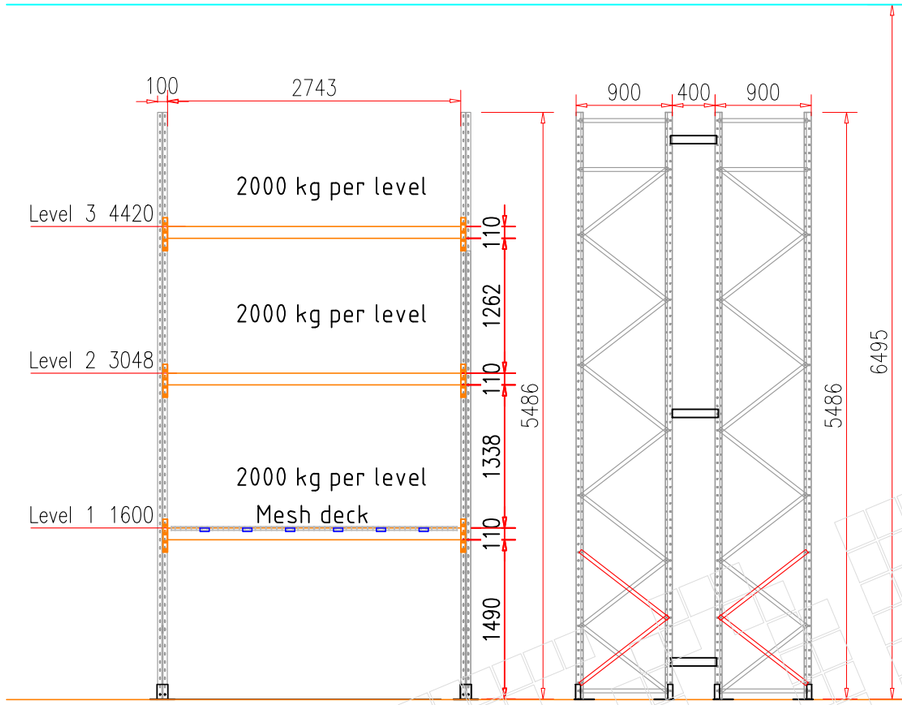
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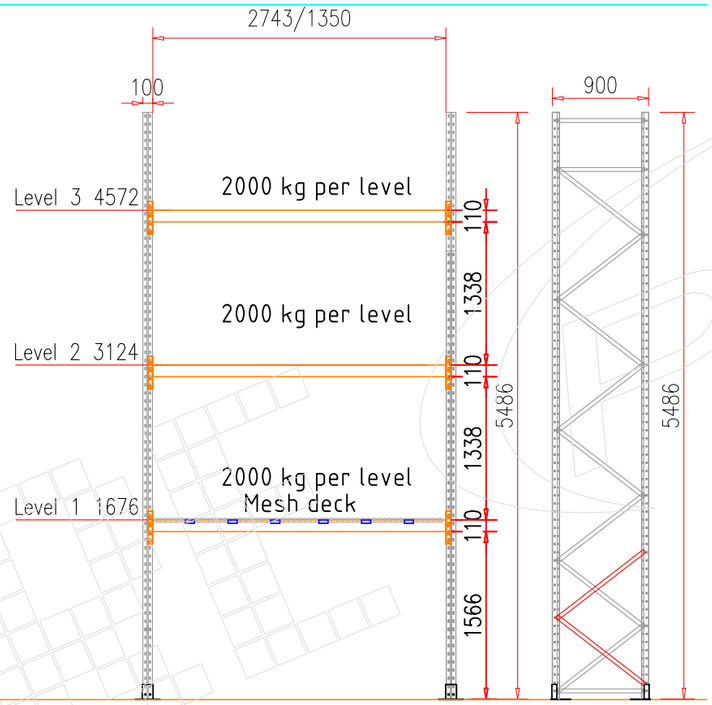
B



Front View
6000 kg per bay

Side View

C



Front View
6000 kg per bay

Side View

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CLIENT: J.A. Russell

SITE: 61 Belfast Rd, Belfast,Christchurch

TITLE: Floor Layout

Opportunity No/ DRAWING No:	QUOTE No/SALES No:	SHEET SIZE
OPPAK05633-3	QTAK	A3

SCALE: NTS

ORIGINATOR:

DRAWN: JH

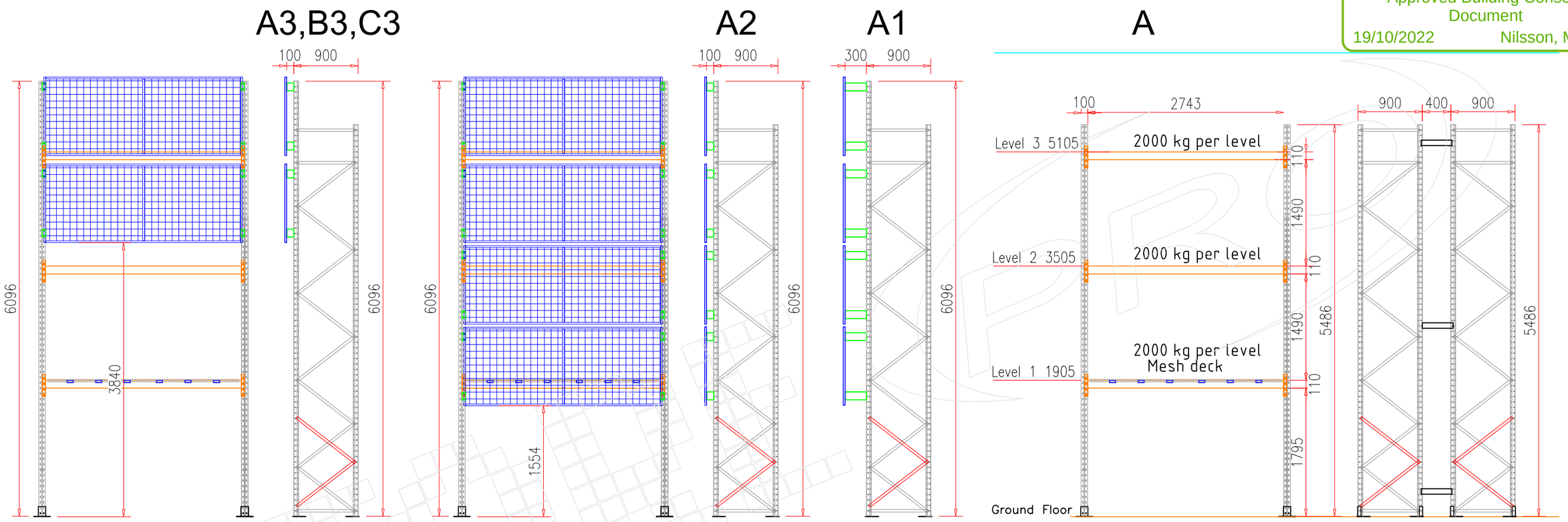
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Beam levels as per bay A

Front View
6000 kg per bay

Side View

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SITE: 61 Belfast Rd, Belfast,Christchurch

TITLE: Floor Layout

Opportunity No/ DRAWING No:	QUOTE No/SALES No:	SHEET SIZE
OPPAK05633-3	QTAK	A3

SCALE: NTS

ORIGINATOR:

DRAWN: JH

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DRAWING APPROVED

NAME:

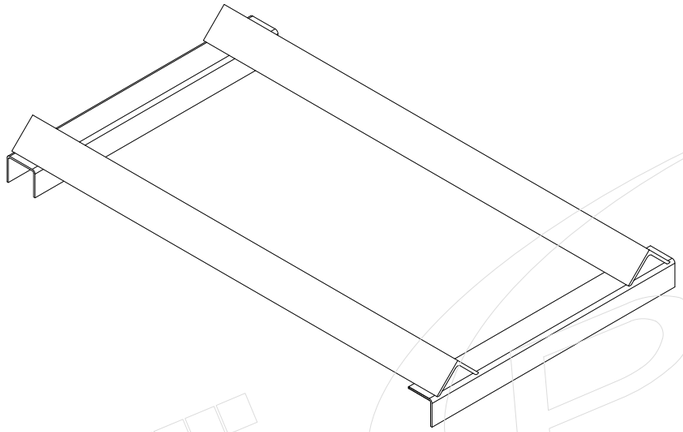
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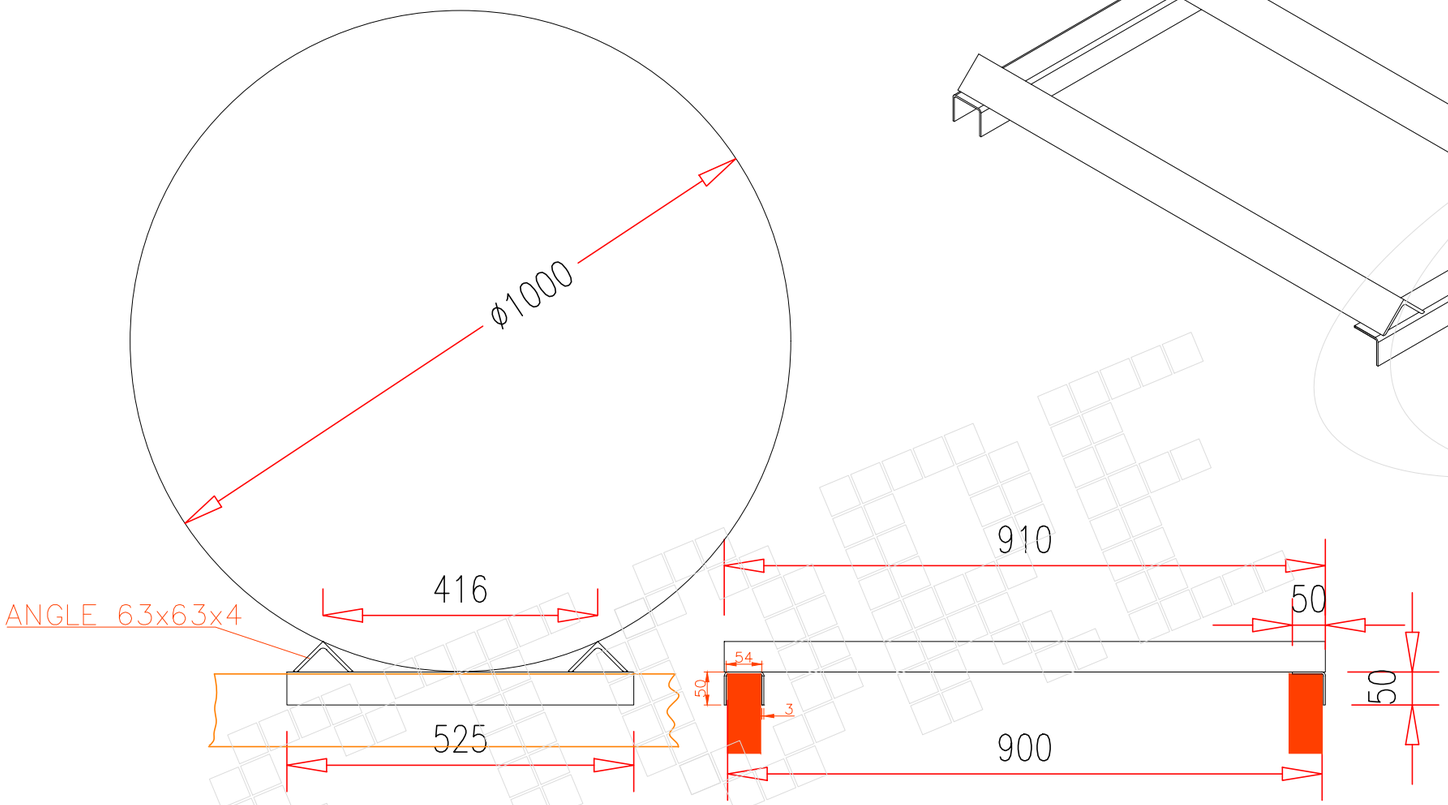
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Drum support





Front view

Side view

SUBJECT TO SITE SURVEY

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CLIENT: J.A. Russell

SITE: 61 Belfast Rd, Belfast,Christchurch

TITLE: Drum Holder

Opportunity No/ DRAWING No:	QUOTE No/SALES No:	SHEET SIZE
OPPAK05633-4	QTAK	A3

SCALE: NTS

ORIGINATOR:

DRAWN: JH

All dimensions shown are in MM otherwise specified. Site verification is required prior to installation.

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DRAWING APPROVED

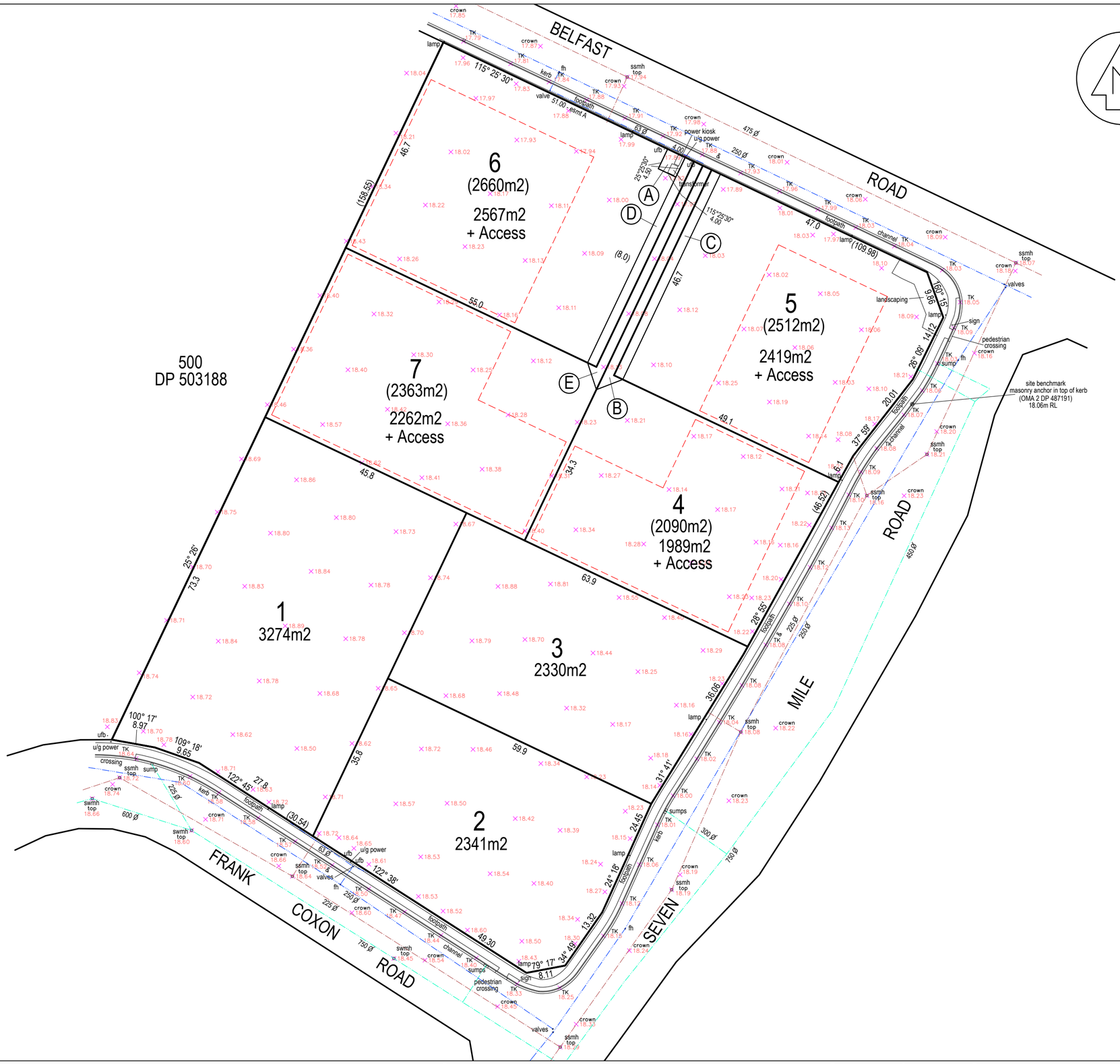
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19/10/2022
Nilsson, Michael



NOTES :

1. THIS SURVEY HAS NOT INCLUDED SITE MARKING OF THE BOUNDARY POSITIONS UNLESS OTHERWISE INDICATED.

2. SOME UNDERGROUND SERVICE INFORMATION IS SHOWN ON THIS PLAN. THE LOCATION OF ANY SUCH SERVICES SHOULD BE CONFIRMED WITH THE RELEVANT LOCAL AUTHORITY OR UTILITY SERVICE PROVIDER.

3. THE SITE DATUM FOR THIS SURVEY IS:

   MASONRY ANCHOR IN TOP OF KERB
   REDUCED LEVEL: 18.06m
   ORIGIN OF LEVELS: BM5022 (EHCG)
   REDUCED LEVEL: 16.56m
   DATUM: CDD JULY 2019

4. "SPOT HEIGHT" POSITIONS ARE SHOWN IN THE FOLLOWING FORMAT X AND ARE EXPRESSED IN METRES IN TERMS OF THE SITE DATUM FOR THE SURVEY. THE HEIGHTS OF THESE POSITIONS HAVE AN ACCURACY RELATIVE TO THE SITE DATUM AS FOLLOWS:

   × HARD SURFACES eg CONCRETE, ASPHALT +/- 0.030m @ 95% CONFIDENCE LEVEL.
   × SOFT SURFACES eg GRASS +/- 0.050m @ 95% CONFIDENCE LEVEL.

5. CADASTRAL BOUNDARIES BEARINGS AND DISTANCES HAVE BEEN SOURCED FROM DP 487191.

6. SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.

Legend

- sewer line
- storm water line
- water supply line

building platform (structure(s) to be located within the indicated area)

EXISTING EASEMENTS

Nature	Servient Tenement Lot No.	Servient Tenement Shown	Document
Right to convey electricity in gross	6	A	EI 10126965.3

MEMORANDUM OF EASEMENTS

Nature	Servient Tenement Lot No.	Servient Tenement Shown	Dominant Tenement
Right of Way & all services	4 5 6 7	B C D E	5,6,7 4,6,7 4,5,7 4,5,6

SURVUS CONSULTANTS
PLANNING + SURVEYING + ENGINEERING

4 Meadow Street, PO Box 5558, Papanui, Christchurch
P 03 352 5599 AMBERLEY 03 314 9200
F 03 352 5527 ASHBURTON 03 307 7021
TOLL FREE 0508 787 887 DARFIELD 03 318 8151

REV	DATE	REVISION DETAILS	
G	28/07/22	DIMENSIONS ADDED FOR EASEMENT A	SRS
F	13/10/21	FOR SUBDIVISION CONSENT	SRS

DRAFTED SRS | VERIFIED | APPROVED | DATE

PROJECT: TRANSOCEAN No 2 LTD - 61 BELFAST ROAD, BELFAST

TITLE: PROPOSED SUBDIVISION OF LOT 3 DP 487191
RT 696545

INFORMATION ONLY

PROJECT NO 13629

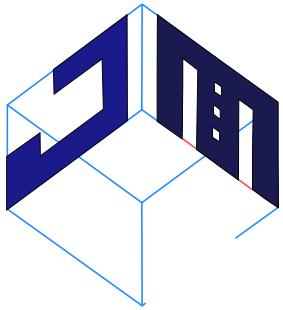
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DRAWING NO SC-02 | REV G

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CEILING SEISMIC RESTRAINT DESIGN

61 BELFAST ROAD CHRISTCHURCH



JM
STRUCTURAL ENGINEERS

Job No. 221004

Christchurch City Council
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Specifications

Suspended Ceiling Seismic Restraint Installation

1.0 Introduction

This specification covers the installation of suspended exposed two-way or plasterboard and flush ceiling systems.

2.0 Codes

It is assumed the Ceiling Contractor is familiar with the following standards. Unless otherwise noted all work shall be carried out in accordance with the following standards and any related documents.

AS/NZS 2785:2000 Suspended Ceilings - Design and Installation
NZS 4219:2009 Seismic Performance of Engineering Systems in Buildings
NZS 4541:2013 Automatic Fire Sprinkler Systems

3.0 Quality Assurance

The Ceiling Contractor shall be responsible for all quality assurance aspects of the project and is responsible to ensure that all work is carried out in accordance with these documents.

4.0 Design Changes

The Ceiling Contractor shall discuss and agree any proposed changes to the engineering design with the Engineer prior to carrying out changes to the works.

5.0 Inspections

Prior to installing the ceiling tiles or plasterboard the Ceiling Contractor shall carry out a detailed visual inspections of all work to ensure it is in accordance with this specification, engineering design and sketches.

The Ceiling Contractor shall check;

- Grid perimeter fixings
- Internal grid connections
- Hangers
- Back-bracing
- Bulkheads
- Separations from services and their supports within the ceiling void
- Fixing of luminaires and equipment within ceiling grid
- Separation of components within the grid

On completion of the inspection the Ceiling Contractor shall provide a marked up plan highlighting all areas inspected and any defects that are required to be addressed by the Main Contractor prior to the installation of the tiles or plasterboard.

6.0 Producer Statements

Prior to the Engineer providing a Producer Statement PS4 "Construction Review" the Ceiling Contractor shall provide to the Engineer a Producer Statement PS3 "Construction" and a statement stating that all remedial works have been completed.

7.0 Hangers and Struts

Hangers and struts shall be installed so that clearances from services and their support elements meet the minimum requirements of Table 15, NZS 4219 (refer below).

Where hangers and struts are unable to meet these requirements, trapeze elements shall be installed.

8.0 Separation of Services

Unless specified otherwise, clearances between components and their support and bracing elements shall meet the minimum requirements of Table 15, NZS 4219.

Table 15, NZS 4219

Condition being considered	Minimum clearance (mm)	
	Horizontal	Vertical
Unrestrained components to unrestrained components	250	50
Unrestrained components to restrained components	**150**	**50**
Restrained components to restrained components	**50**	**50**

Ceiling hangers and braces are considered to be restrained components for the purposes of this table.
Clearances highlighted in **bold** are required between the suspended ceiling and services within the ceiling.

It is the Ceiling Contractors duty to notify the Main Contractor if services and components within the ceiling space do not meet the minimum clearance requirements of Table 15, as failure to do so could result in failure of the ceiling in a seismic event.

Producer Statements cannot be provided for ceiling projects where the clearances to components are not achieved.

9.0 Flexible Ducting

Flexible ductwork shall be kept clear of the ceiling and its support structure.

10.0 Sprinklers

In accordance with NZS 4541 sprinkler heads on rigid droppers situated within the ceiling shall be separated from the ceiling tile, or plasterboard by 25mm. No clearance is required for sprinkler heads on flexible droppers.

In accordance with NZS 4541 sprinkler pipe work may not be supported off the suspended ceiling, or its support structure.

Failure to meet these requirements will prevent the certification of the sprinkler system.

Producer Statements should not be provided for ceilings where the sprinkler head clearances and support requirements are not met.

11.0 Equipment

Equipment supported by the ceiling such as air diffusers and lights shall be tethered to the soffit.

Equipment greater than 7.5kg, but less than 20 kg, shall be independently vertically supported from the structural soffit.

Equipment greater than 20kg in weight shall be independently supported and braced from the structural soffit and separated all around from the ceiling by 25mm.

12.0 Partitions

Partitions shall not be braced by the ceiling and shall be independently braced off the structural soffit of roof.

Partitions used to provide seismic bracing for the ceiling shall be designed to withstand loads provided by the Engineer.

All partitions shall be installed with a sliding head track to allow in-plane seismic movements and vertical gravity and wind movements.

13.0 Engineering Inspections

The Engineer shall be provided with adequate notice to carryout inspections when Producers Statements PS4 are required.

All inspections should be carried out prior to the installation of the ceiling tiles, or plasterboard.

CONTRACTOR MUST VERIFY ALL DIMENTIONS ON SITE

JM STRUCTURAL ENGINEERS

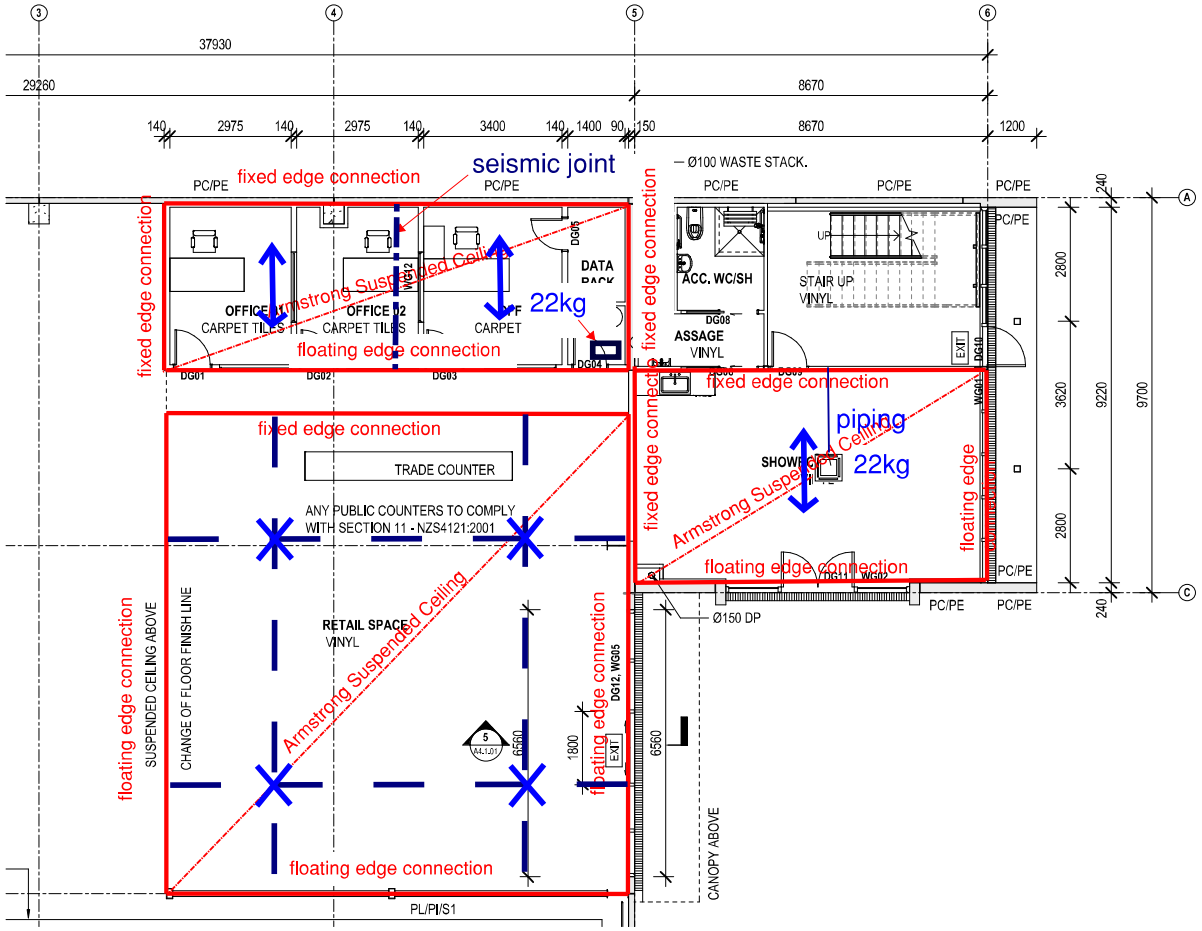
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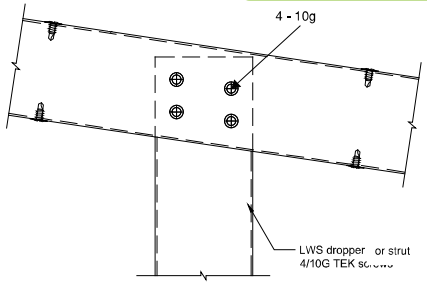
CEILING SEISMIC RESTRAINT DESIGN

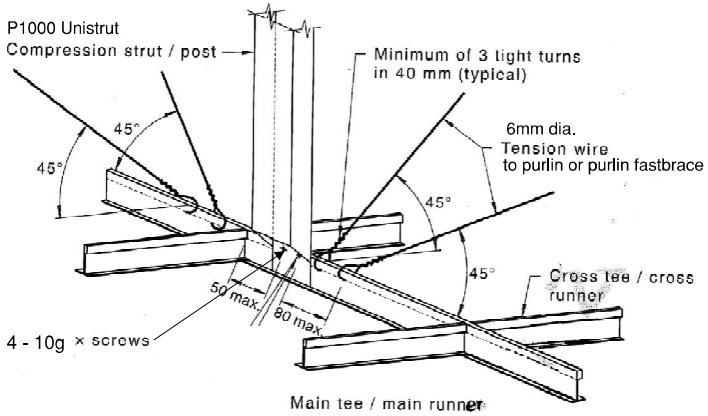
JM STRUCTURAL ENGINEERS

Engineered by:	JM	Date :	
Drawn by:		Date :	
Sheet No:	S 0.1	Issue: A	Scale: NTS

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Nilsson, Michael







Indication of Two-directional Back Bracing System

Indication of the along directional Back Bracing System

Indication of Two-directional Back Bracing System
Apply Max. 6mX6m spacing to all ceilings

CONTRACTOR MUST VERIFY ALL DIMENTIONS ON SITE

JM STRUCTURAL ENGINEERS

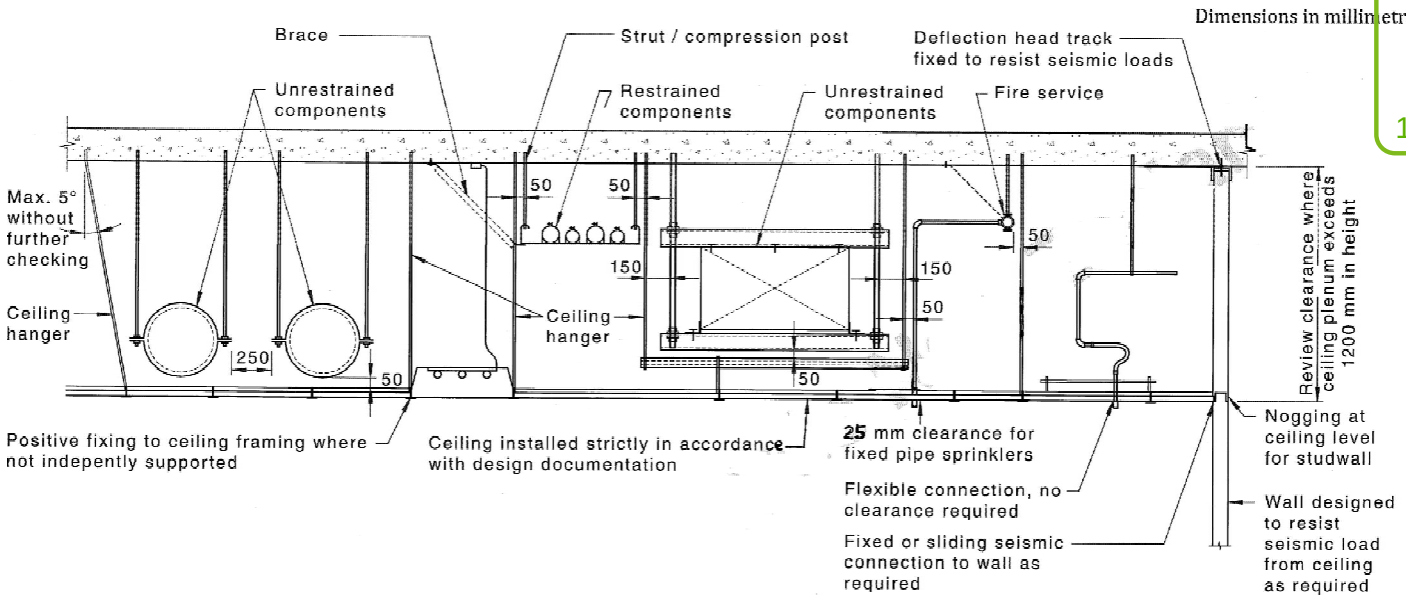
STRUCTURAL DRAWINGS

CEILING SEISMIC RESTRAINT DESIGN

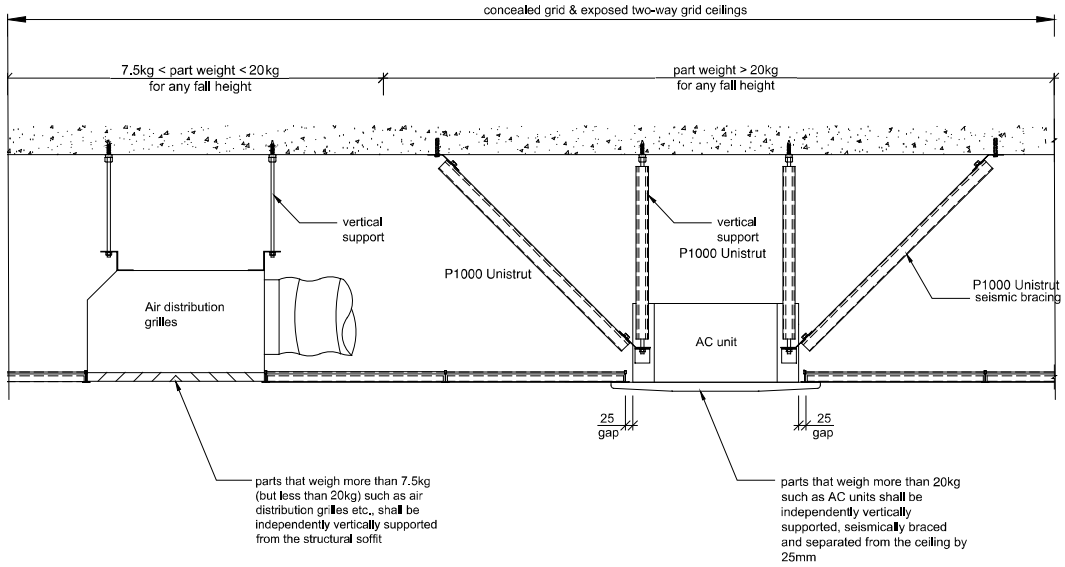
JM STRUCTURAL ENGINEERS

Engineered by: JM Date :
Drawn by: Date :
Sheet No: S 1.0
Issue: A
Scale: NTS

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Minimum Component Clearances for Service



Restraint of In-ceiling Equipment

CONTRACTOR MUST VERIFY ALL DIMENTIONS ON SITE

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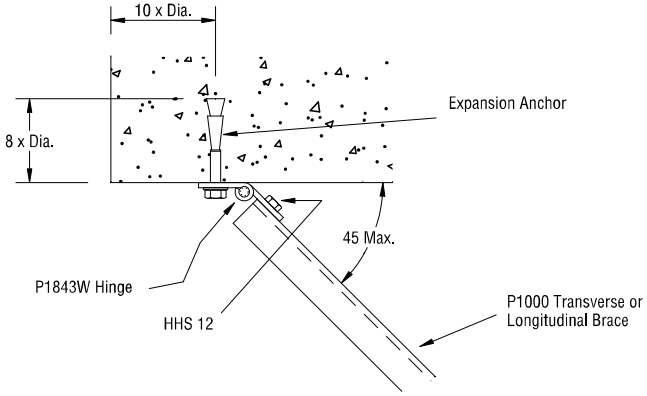
STRUCTURAL DRAWINGS

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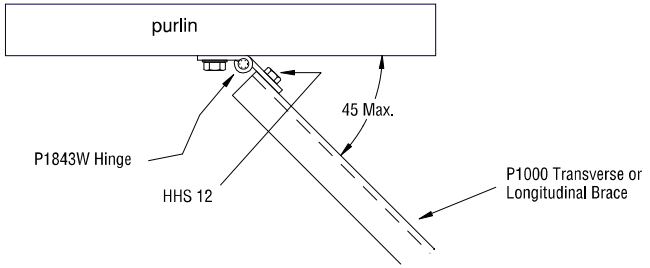
JM STRUCTURAL ENGINEERS

Engineered by:	JM	Date :	
Drawn by:		Date :	
Sheet No:	S 1.1	Issue:	A
		Scale:	NTS

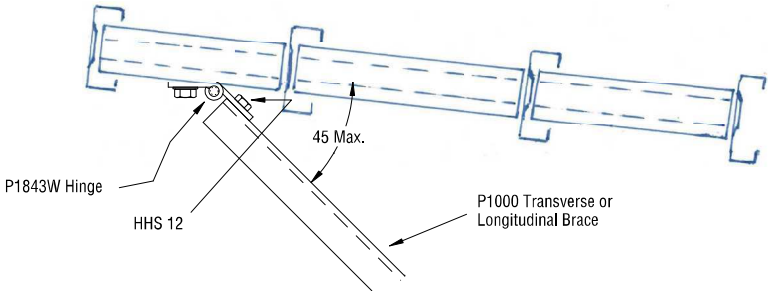
Christchurch City Council
NOTES:
1. Structural Drawings are responsibility for the setout and dimensions when Shop Drawings have not been provided
b. Structural to review Shop Drawings
c. Shop drawings are to be provided for all precast panels and structural steelworks for review prior to fabrication
d. All structural drawings are to be read in conjunction with the architectural and all other relevant documents. Any discrepancies shall be notified prior to construction or fabrication
Contractor to verify:
a. All structural drawings are the latest construction issue
b. All dimensions on site prior to commencing any work
BCN/2022/5630
Approved Building Consent Document
19/10/2022 Nilsson, Michael



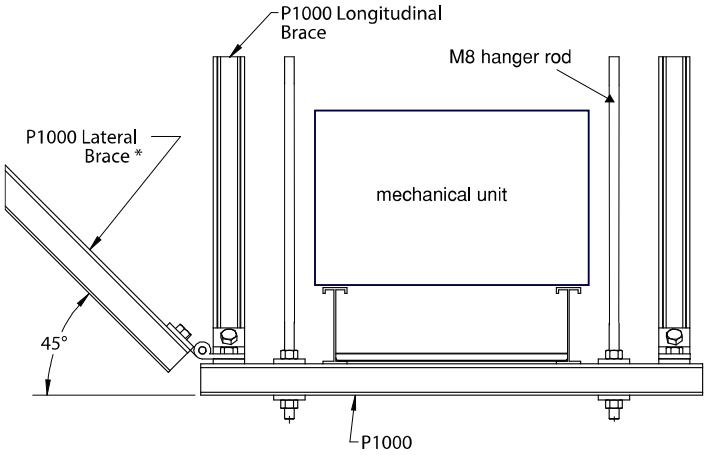
Restraint top connection to concrete



Restraint top connection if parallel to purlin



Restraint top connection if perpendicular to purlin



Restraint of In-ceiling Equipment

CONTRACTOR MUST VERIFY ALL DIMENTIONS ON SITE

JM STRUCTURAL ENGINEERS

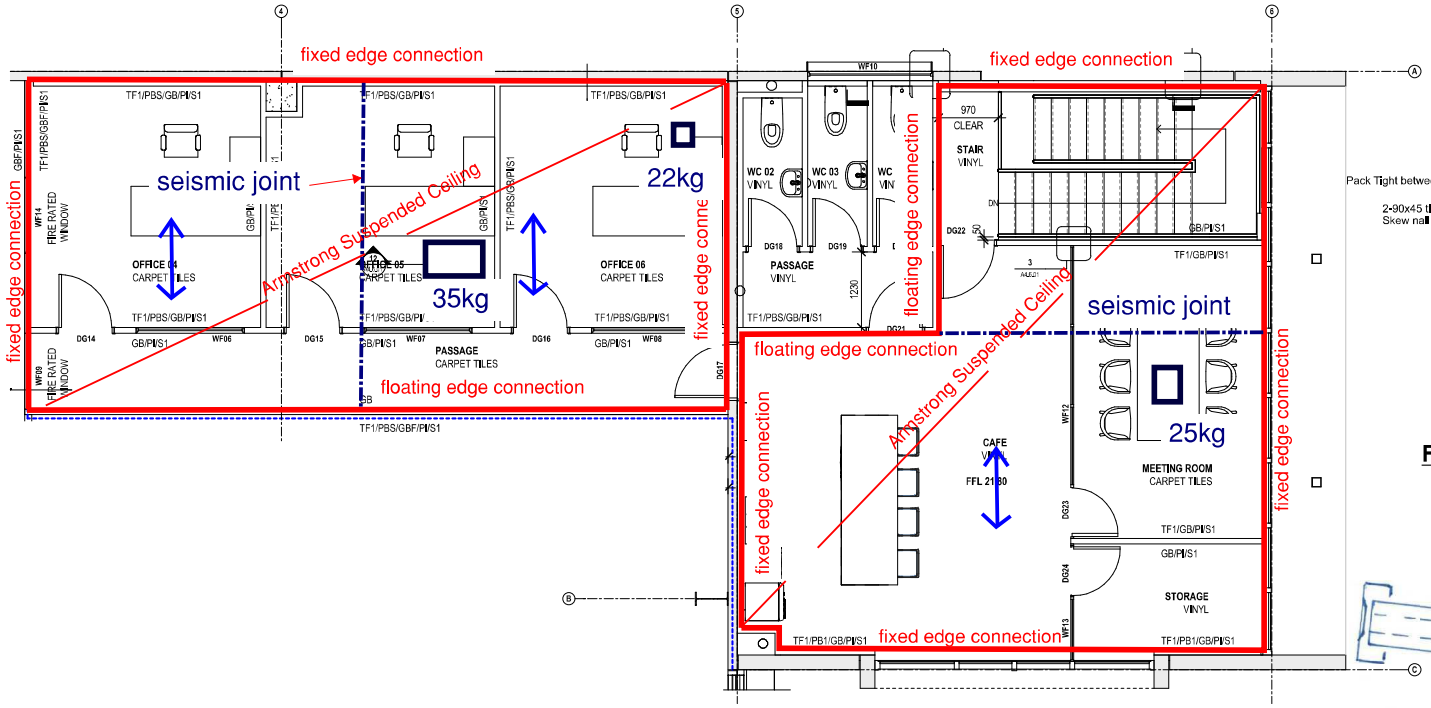
STRUCTURAL DRAWINGS

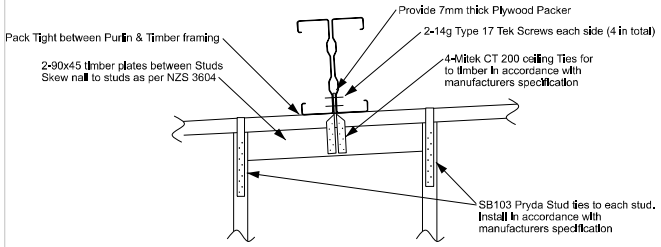
CEILING SEISMIC RESTRAINT DESIGN

JM STRUCTURAL ENGINEERS

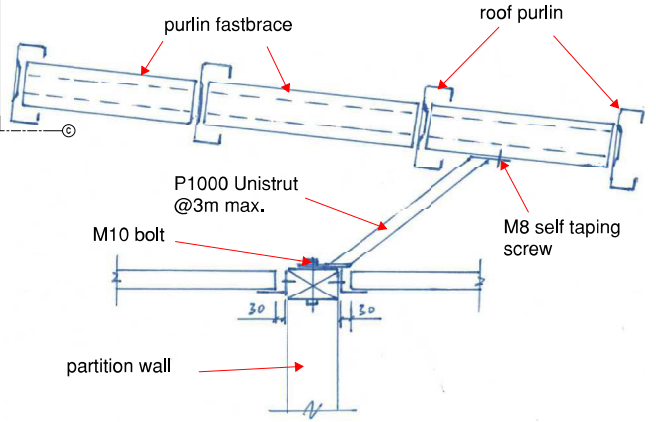
Engineered by:	JM	Date :	
Drawn by:		Date :	
Sheet No:	S 1.2	Issue:	A
Scale:	NTS		

Christchurch City Council
NOTES:
a. Architectural Drawings is responsibility for the setout and dimensions when Shop Drawings have not been provided
b. Structural Drawings is responsibility for the setout and dimensions when Shop Drawings
c. Shop drawings are to be provided for all precast panels and structural steelworks for review prior to fabrication
d. All structural drawings are to be read in conjunction with the architectural and all other project documents. Any discrepancies shall be pointed out prior to construction or fabrication
Contractor to verify:
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b. All dimensions on site prior to commencing any work
BCN/2022/5630
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19/10/2022 Nilsson, Michael





Full height timber wall perpendicular to purlins
as per designed by MSC



Indication of Two-directional Back Bracing System

Indication of the along directional Back Bracing System

Patition wall parallel to purlins out of plane bracing indication

CONTRACTOR MUST VERIFY ALL DIMENTIONS ON SITE

JM STRUCTURAL ENGINEERS

STRUCTURAL DRAWINGS

CEILING SEISMIC RESTRAINT DESIGN

JM STRUCTURAL ENGINEERS

Engineered by:	JM	Date :	
Drawn by:		Date :	
Sheet No:	S 1.3	Issue:	A
Scale:	NTS		