

GENERAL CONSTRUCTION NOTES

- THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER WORKING DRAWINGS, SPECIFICATIONS AND ANY OTHER WRITTEN INSTRUCTIONS ISSUED DURING CONSTRUCTION. ALL DISCREPANCIES AND VARIATIONS SHALL BE REFERRED TO THE ENGINEER, BEFORE PROCEEDING WITH THE WORK

- DURING CONSTRUCTION THE STRUCTURE AND ANY ADJACENT STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED

- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF THE WORKS

- THE CONTRACTOR IS RESPONSIBLE TO ESTABLISH THE LOCATION, SIZE AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORKS

- ALL SITE SAFETY MEASURES AND WORK METHOD STATEMENTS PREPARED BY BUILDER/SUB-CONTRACTORS ARE TO BE IMPLEMENTED DURING CONSTRUCTION. NO WORK IS TO COMMENCE UNTIL SUPERVISOR / BUILDER HAS IDENTIFIED AND APPROPRIATELY ACTED ON ANY POTENTIAL HAZARDS

- BUILDER TO ADHERE TO ANY GEOTECHNICAL REPORT RECOMMENDATIONS PREPARED FOR THE SITE

- ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF RELEVANT AUSTRALIAN STANDARD CODES AND THE REGULATIONS OF THE RELEVANT BUILDING AUTHORITY

- UNLESS REQUESTED AND PRODUCED ON THE PLANS, THE BUILDER IS TO ENSURE THAT ARTICULATION JOINTS ARE SHOWN ON THEIR ARCHITECTURAL DRAWINGS AND BE SATISFIED THAT THEY ARE IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND BUILDING CODES

- REFER TO THE ARCHITECTURAL PLANS FOR LOCATIONS OF ANY CONCRETE PADS REQUIRED

- FOUNDATION MATERIAL SHALL BE APPROVED PRIOR TO CONSTRUCTION

- A 1.0 METRE WIDE APRON, WITH 25 CROSS FALL AWAY FROM SLAB EDGE IS TO BE FORMED ALL AROUND THE RAFT SLAB WHERE APPLICABLE

- ADDITIONAL CONCRETE PIERS MAY BE REQUIRED UNDER SLAB TO EVEN BEARING IN SOIL AS RECOMMENDED BY AUSTRALIAN STANDARD AS 2870.

- ALL SITE FILLING PLACED BENEATH SLAB TO BE TREATED IN ACCORDANCE WITH CLAUSE 6.4. OF AS 2870.2 - 2011.

- NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS ARE TO BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR ENGINEER'S APPROVAL

- IF THE LOCATION OF THE SLAB IS NEXT TO AN ABOVE OR BELOW ON SITE DETENTION SYSTEM OR BELOW GROUND RAINWATER TANK, THE BUILDER IS TO ADVISE ENGINEER IN ORDER TO ENSURE THAT CONCRETE PIERS ARE TAKEN 500mm BELOW THE INVERT OF TANK OR THE FOOTING OF THE SUPPORTING WALL FOR AN ABOVE GROUND DETENTION SYSTEM PREPARED FOR THE SITE

- IF THE LOCATION OF THE SLAB IS NEXT TO AN ABOVE OR BELOW ON SITE DETENTION SYSTEM OR BELOW GROUND RAINWATER TANK, THE BUILDER IS TO ADVISE ENGINEER IN ORDER TO ENSURE THAT CONCRETE PIERS ARE TAKEN 500mm BELOW THE INVERT OF TANK OR THE FOOTING OF THE SUPPORTING WALL FOR AN ABOVE GROUND DETENTION SYSTEM PREPARED FOR THE SITE

- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 100kPa.

- CONSTRUCTION JOINTS THAT ARE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER

- REINFORCEMENT SYMBOLS ARE FOLLOWS:

(N) - HOT ROLLED DEFORMED BARS (400 n)

(SL) - HARD-DRAWN WIRE REINFORCING FABRIC (450 sl)

(S) - STRUCTURAL GRADE DEFORMED BARS

- ALL REINFORCEMENT TO BE ADEQUATELY SUPPORTED IN ITS REQUIRED POSITION AND COVER DURING PLACEMENT OF CONCRETE

- PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER

- ALL CONCRETE TO BE MECHANICALLY VIBRATED AND SHALL BE CAREFULLY WORKED AROUND THE REINFORCEMENT AND INTO THE CORNERS OF FORMWORK

- PIER HOLES ARE DESIGNED FOR ALLOWABLE BEARING PRESSURE OF 500kPa.

- CONCRETE SPECIFICATION (F_c 28 DAYS) TO BE AS FOLLOWS: ADOPT TYPE 'A' CEMENT WITH MAX AGGREGATE SIZE OF 20mm AND 80mm SLUMP

REFERENCE HAS BEEN MADE TO RAFELETOS ZANUTTINI'S BOREHOLE & SOIL CLASSIFICATION REPORT UNDERTAKEN FOR THE PROPERTY

BUILDER / HOME OWNER IS TO ADHERE TO CSIRO BROCHURE, "FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE: A HOMEOWNER'S GUIDE"

THESE STRUCTURAL ENGINEERING DETAILS ARE IN ACCORDANCE WITH

- AS2870-2011 RESIDENTIAL SLAB & FOOTING CODE
- AS4100 STEEL STRUCTURE CODE
- AS1170.1 & AS1170.2 WIND, DEAD & LIVE LOAD CODE
- BUILDING CODE OF AUSTRALIA: SECTION B STRUCTURES

LOCATION	NORMAL F _c
PIERS	20 MPa
SLAB	20 MPa
STRIP FOOTING	20 MPa

- CLEAR COVER TO REINFORCEMENT TO BE AS FOLLOWS:

LOCATION	FORMED & SHELTERED	FORMED & EXPOSED	POURED ON GROUND
SLABS & WALLS	20	30	65
BEAMS	25	40	65
COLUMNS	40	50	-
STRIP FOOTING	-	-	65

○ CONCRETE PIERS ⊗ REINFORCED CONC. PIERS ♀ ARTICULATION JOINT

● SEWER AFFECTED PIERS ⊕ SCREW PIERS * STARTING POINT

ABN: 35 04 047 466
PO BOX 91 KINGSGROVE NSW 2208
Level 2, 103 VANESSA ST KINGSGROVE NSW 2208

PTY LTD
PH: 9554 9311 FAX: 9554 9764
EMAIL: admin@rafzan.com.au

CLIENT THEOHARIS

LOCATION LOT 48 (NO.13) POOLE STREET, KINGSGROVE

CLASSIFICATION H1

SHEET SIZE A3

SHEET No. 1

REFERENCE 2017565

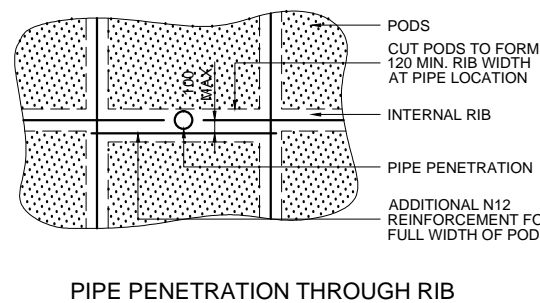
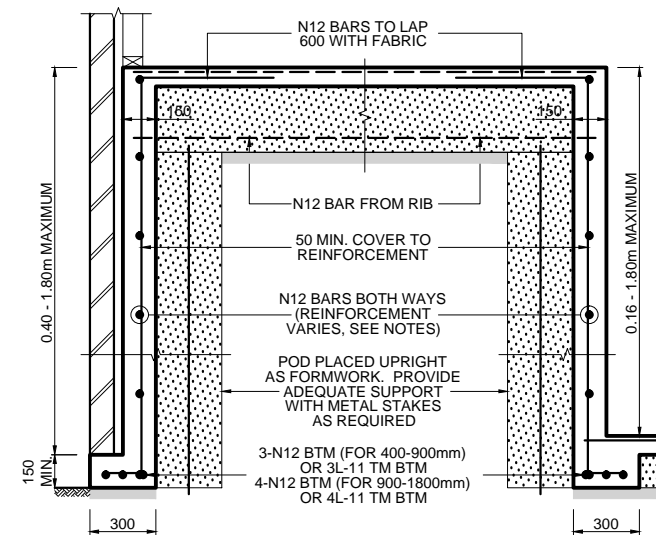
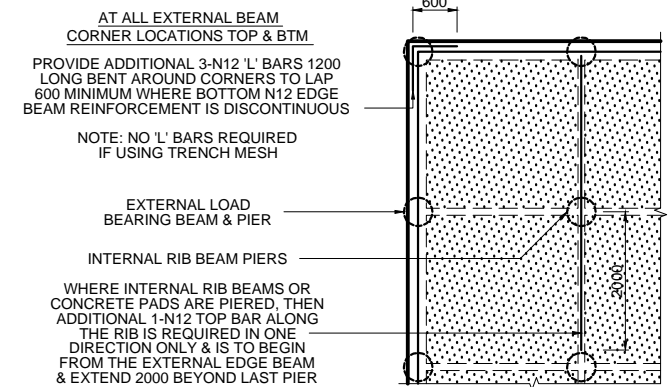
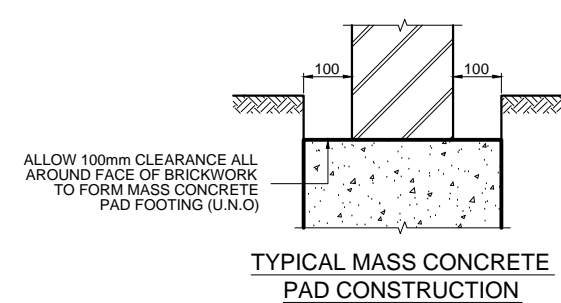
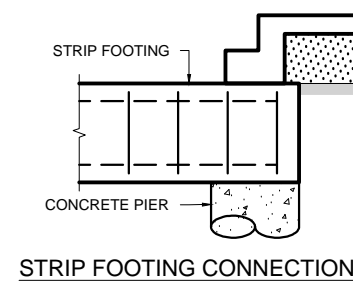
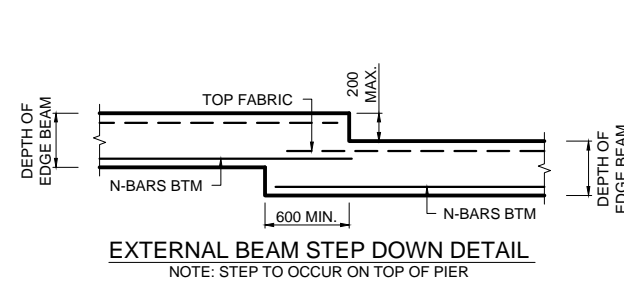
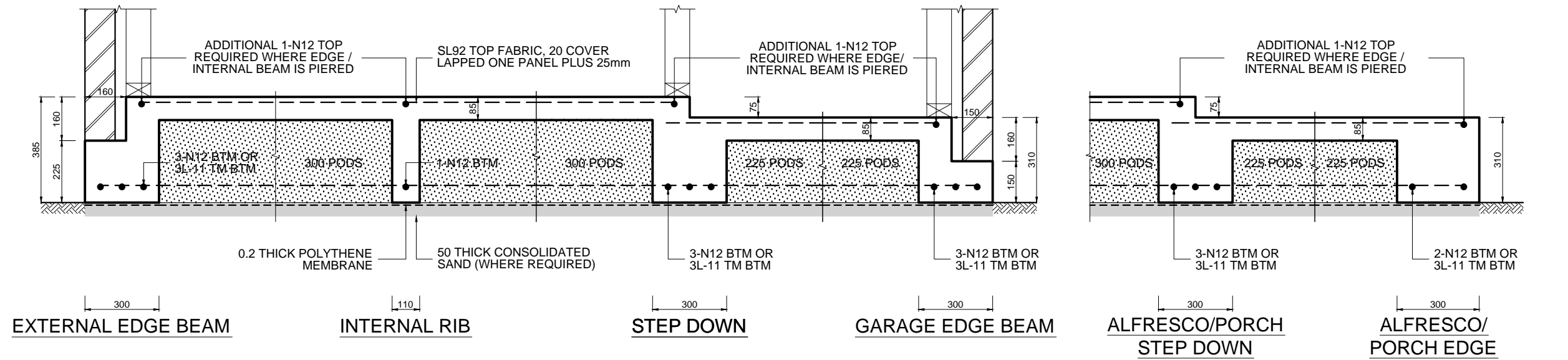
SCALE 1 : 100

JOB No. 96772M

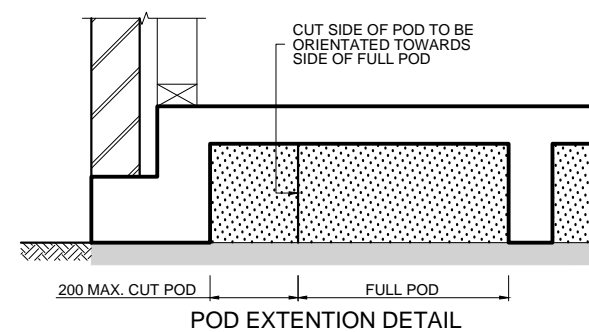
MASTERTON HOMES

REVISION SCHEDULE

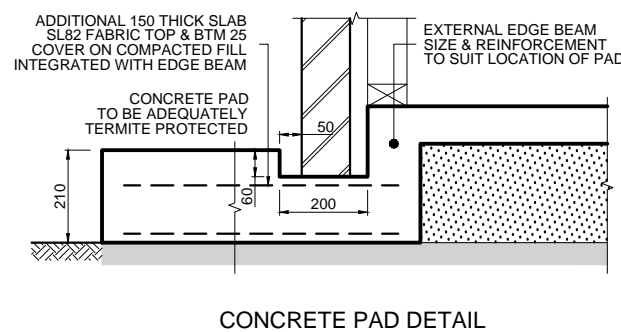
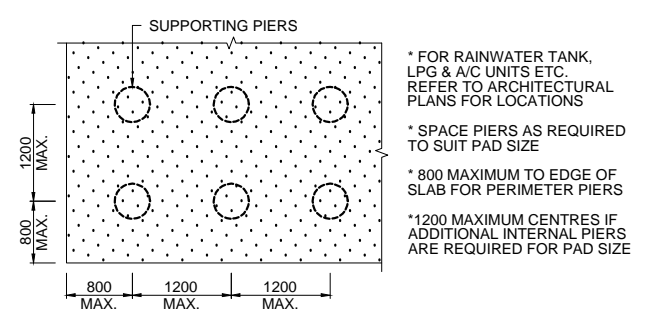
A ORIGINAL ISSUE	FAUZAN	08/06/22
B PLAN AMENDED	FAUZAN	14/07/22



PIPE PENETRATION THROUGH RIB



POD EXTENSION DETAIL



CONCRETE PAD DETAIL

PROVIDE 400 DIA. CONCRETE PIERS TO CLAY & SAND, OR 300 DIA. TO ROCK OR SHALE.

SPACE PIERS AT 2400 CTS. AS SHOWN ALONG EXTERNAL EDGE BEAM, UNLESS NOTED OTHERWISE.

PIERS REQUIRED UNDER INTERNAL RIB BEAMS WHEN CONSTRUCTED ON MORE THAN 300mm OF UNCONTROLLED / NON-COMPACTED MATERIAL OR AS SHOWN.

N12 BARS CAN BE REPLACE WITH 10.65mm HDW (450MPa STRESS GRADE)

REINFORCEMENT FOR RIBS & BEAMS

WIDTH	TOP STEEL	BTM STEEL
301 - 330	1-N12	3-N12
331 - 440	2-N12	4-N12
441 - 550	3-N12	5-N12
551 - 660	4-N12	6-N12



RAFELETOS ZANUTTINI
Consulting Engineers

ABN: 35 04 047 466
PO BOX 91 KINGSGROVE NSW 2208
Level 2, 103 VANESSA ST KINGSGROVE NSW 2208

PTY LTD
PH: 9554 9311 FAX: 9554 9764
EMAIL: admin@rafzan.com.au

CLIENT THEOHARIS
LOCATION LOT 48 (NO.13) POOLE STREET, KINGSGROVE

[Signature]
B.E. M.I.E. AUST.

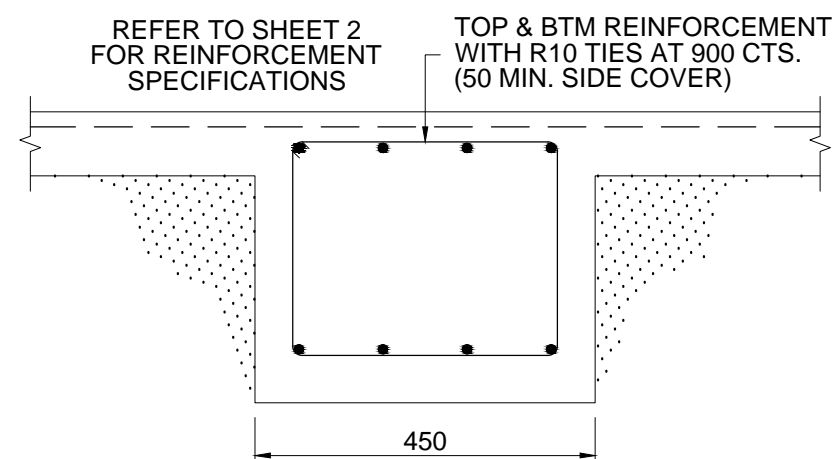
300.82, 3.N 300.225, 75, 3 300.225, 75, 3

CLASSIFICATION H1 SHEET No. 2
SCALE NTS JOB No. 96772M



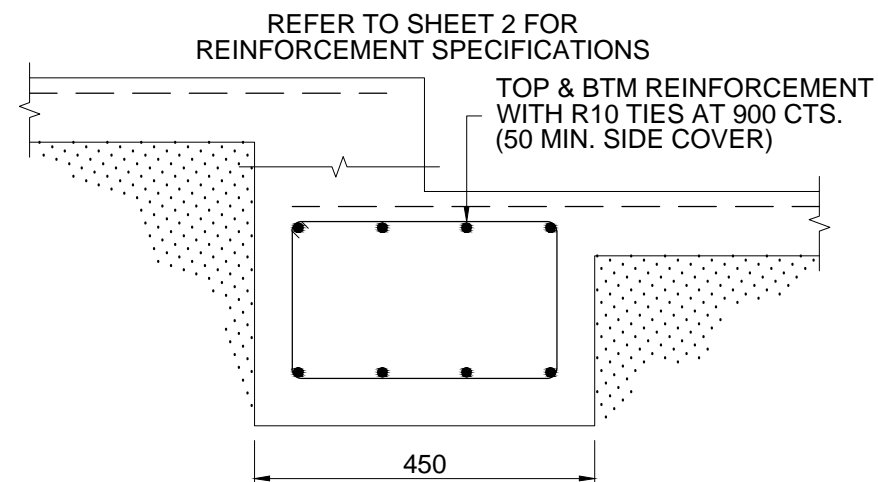
REVISION SCHEDULE

A ORIGINAL ISSUE FAUZAN 08/06/22
B PLAN AMENDED FAUZAN 14/07/22



LOAD BEARING RIB

SECTION X-X



LOAD BEARING RIB AT STEP DOWN

SECTION Y-Y

STRUCTURAL SLAB DETAILS

CLIENT THEOHARIS
LOCATION LOT 48 (NO.13) POOLE STREET, KINGSGROVE

B.E. M.I.E. AUST.

REFERENCE 2017565

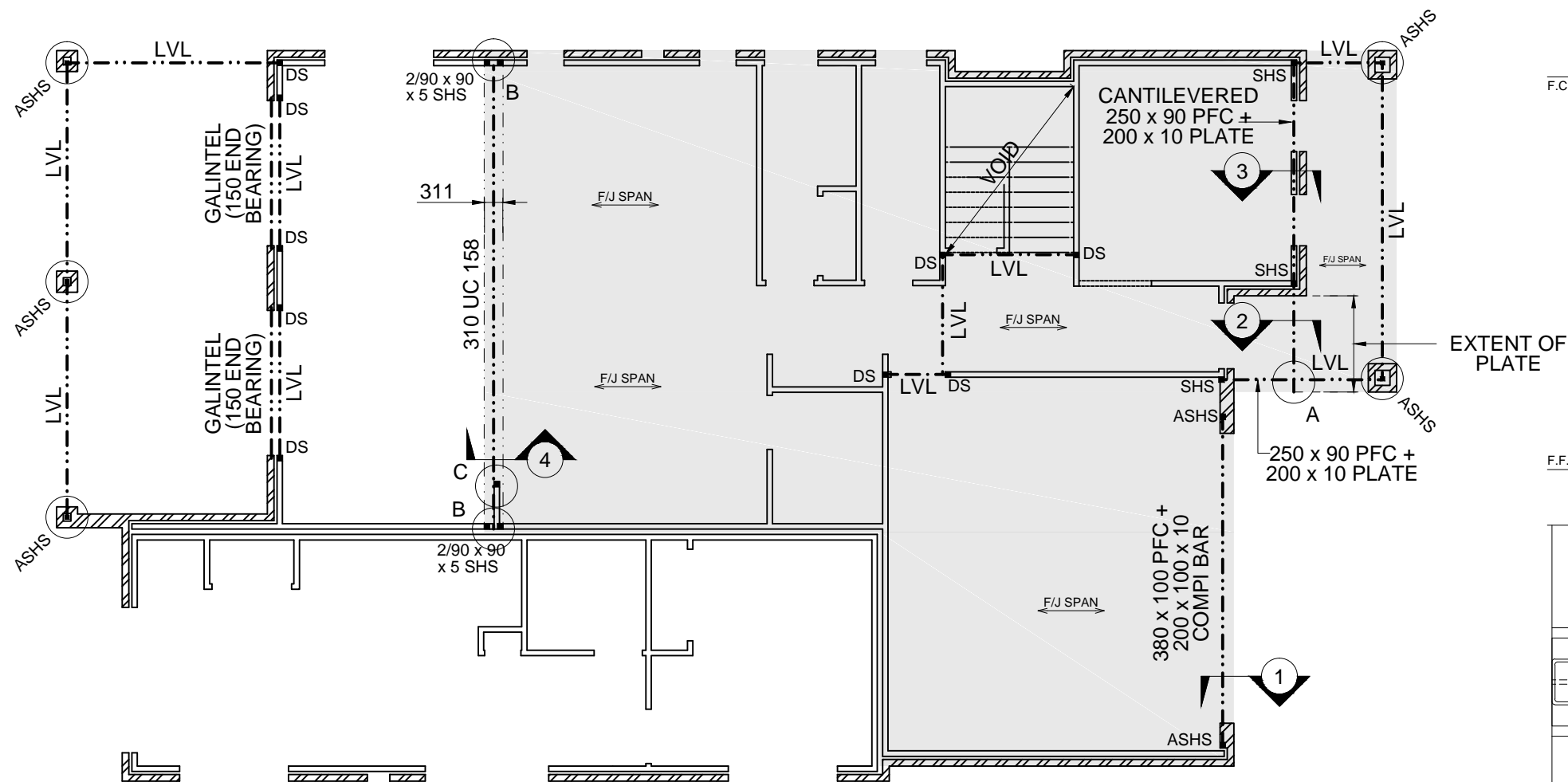
SHEET SIZE A3
SCALE 1 : 100

SHEET No. 3
JOB No. 96772M

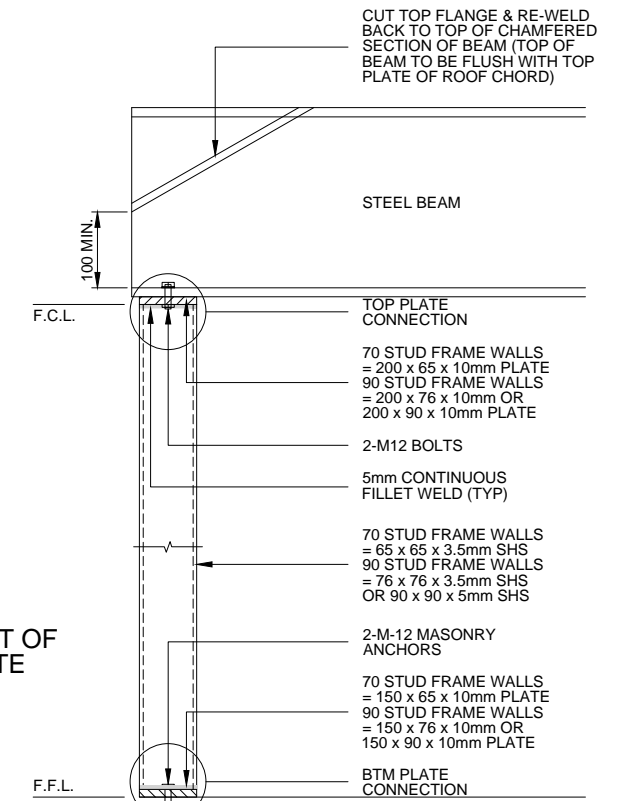


REVISION SCHEDULE

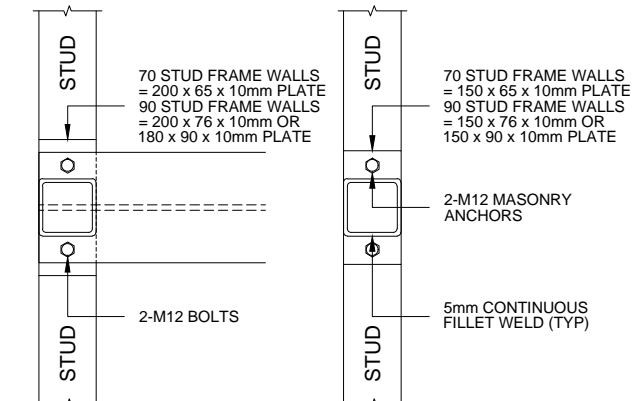
A ORIGINAL ISSUE	FAUZAN	08/06/22
B PLAN AMENDED	FAUZAN	14/07/22



STEEL DETAIL NOTES



TYPICAL SECTION



TOP PLATE CONNECTION BOTTOM PLATE CONNECTION

- NOTE:**
- ALL STEELWORK TO BE PAINTED WITH AN APPROVED CORROSIVE RESISTANT PRIMER
 - NOTE: IF BUILDING IS LOCATED WITHIN 1.0 KM OF SEVERE MARINE CONDITIONS, ENGINEER IS BE NOTIFIED, AND STEEL BEAMS ARE TO BE GALVANISED & ALL BRICKWORK COMPONENTS TO BE IN ACCORDANCE WITH AS3700-2011 MASONRY CODE - SECTION 5
 - SHS: DENOTES SQUARE HOLLOW SECTION OR STEEL POST, BUILD POST INTO STUD FRAMEWORK
 - ASHS: DENOTES ADJUSTABLE SQUARE HOLLOW SECTION STEEL POSTS, REFER TO 'TYPICAL ADJUSTABLE STEEL POST DETAIL' WHERE APPLICABLE
 - AP: DENOTES ADAPTER POST
 - 70 STUD FRAME WALLS
DS: DENOTES 1/70 x 70 OR 2/70 x 35 HARDWOOD STUDS OR STRUCTURAL LVL POST
TS: DENOTES 3/70 x 45 HARDWOOD STUDS
 - 90 STUD FRAME WALLS
DS: DENOTES 1/90 x 90 OR 2/90 x 45 HARDWOOD STUDS OR STRUCTURAL LVL POST
TS: DENOTES 3/90 x 45 HARDWOOD STUDS
- SHADING DENOTES FIRST FLOOR ABOVE F/J SPAN FLOOR JOIST TO MANUFACTURERS SPECIFICATIONS

POST SUPPORT NOTES (UNLESS NOTED OTHERWISE)

MEMBER	BEARING LOCATION	END SUPPORT
LVL OR EQUIVALENT	STUDFRAME	DS OR EQUIVALENT
	BRICKWORK	ASHS OR 150 END BEARING MIN.
	TIMBER POST	BY BUILDER
GALINTEL	STUDFRAME	STEEL POST
	BRICKWORK	150 END BEARING MIN.
ANGLE	STUDFRAME	STEEL POST
	BRICKWORK	150 END BEARING MIN.
T-BEAM	STUDFRAME	STEEL POST
	BRICKWORK	150 END BEARING MIN.
STEEL BEAM	STUDFRAME	AS NOTED
	BRICKWORK	230 END BEARING MIN.

STRUCTURAL STEEL PLAN

CLIENT THEOHARIS
LOCATION LOT 48 (NO.13) POOLE STREET, KINGSGROVE

[Signature]
B.E. M.I.E. AUST.

SHEET SIZE A3 SHEET No. 4
REFERENCE 2017565 SCALE 1 : 100 JOB No. 96772M



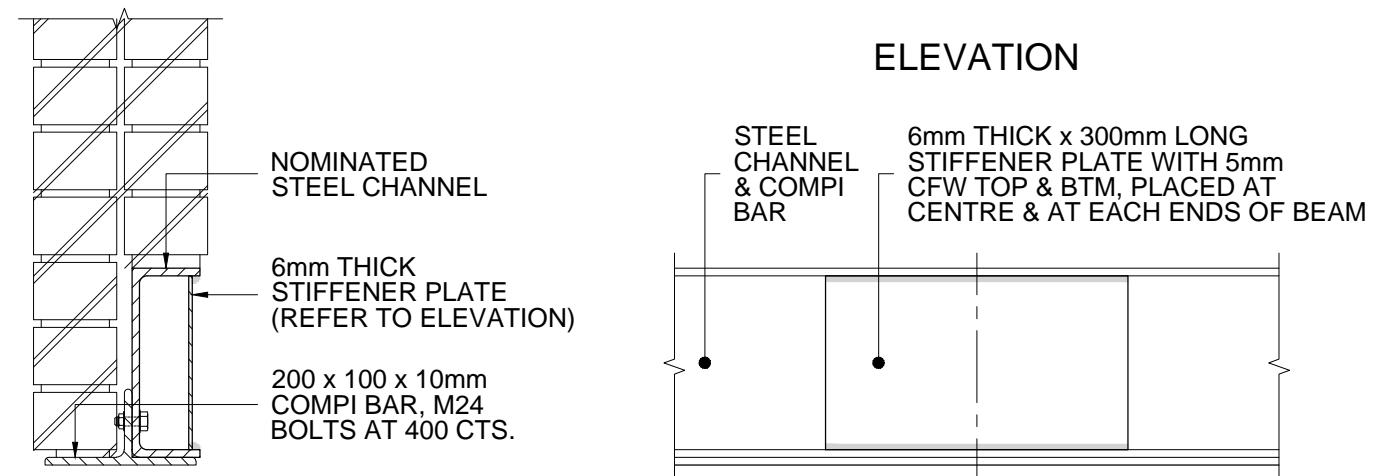
REVISION SCHEDULE

A ORIGINAL ISSUE	FAUZAN	08/06/22
B PLAN AMENDED	FAUZAN	14/07/22

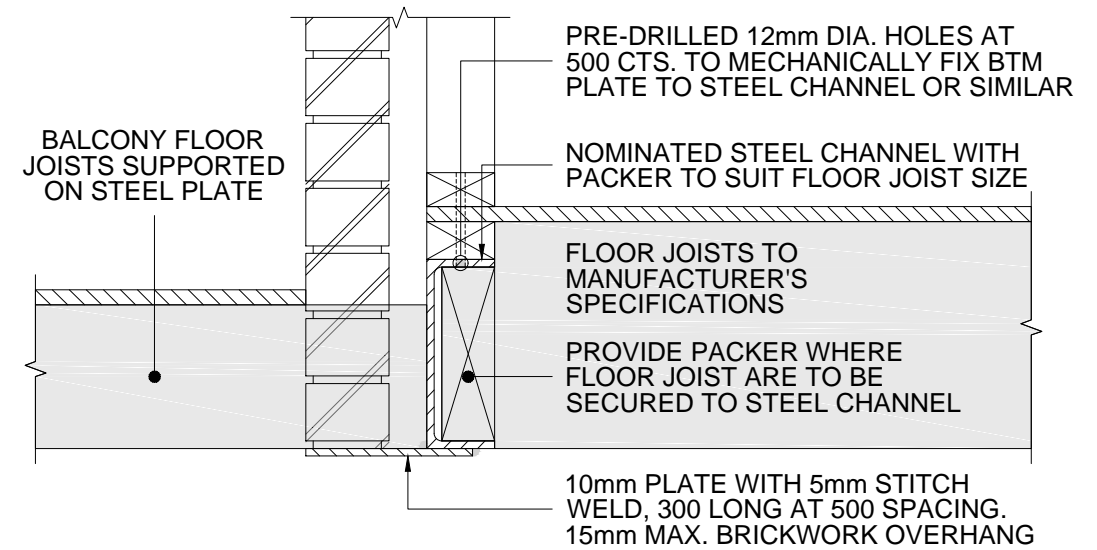


ABN: 35 04 047 466
PO BOX 91 KINGSGROVE NSW 2208
Level 2, 103 VANESSA ST KINGSGROVE NSW 2208

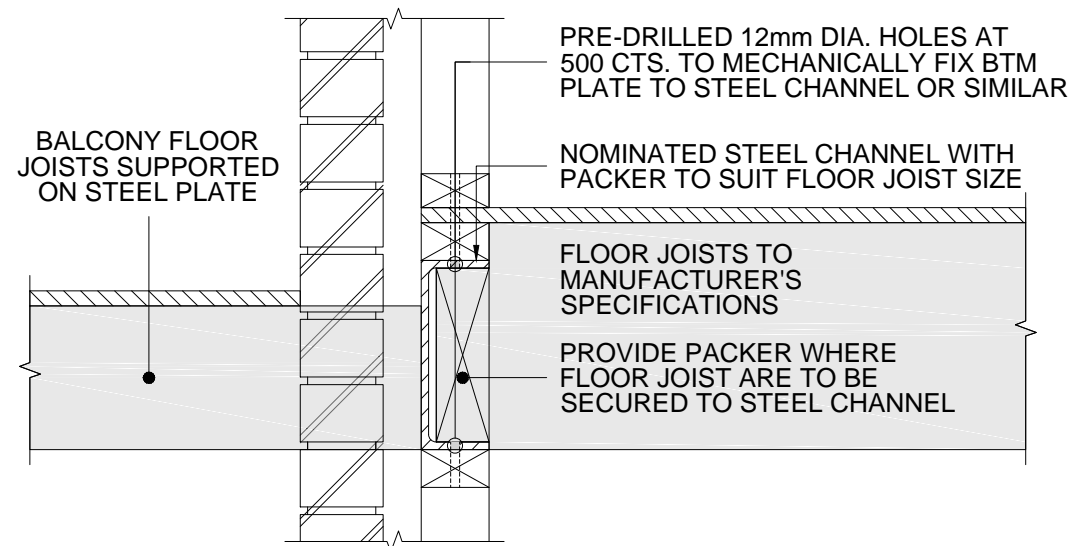
PTY LTD
PH: 9554 9311 FAX: 9554 9764
EMAIL: admin@rafzan.com.au



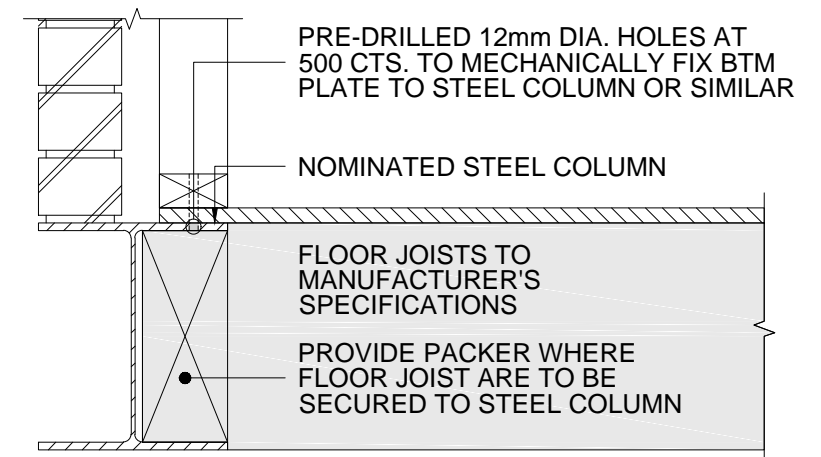
SECTION 1-1



SECTION 2-2



SECTION 3-3



SECTION 4-4



RAFELETOS ZANUTTINI
Consulting Engineers

ABN: 35 04 047 466
PO BOX 91 KINGSGROVE NSW 2208
Level 2, 103 VANESSA ST KINGSGROVE NSW 2208

PTY LTD
PH: 9554 9311 FAX: 9554 9764
EMAIL: admin@rafzan.com.au

CLIENT THEOHARIS
LOCATION LOT 48 (NO.13) POOLE STREET, KINGSGROVE

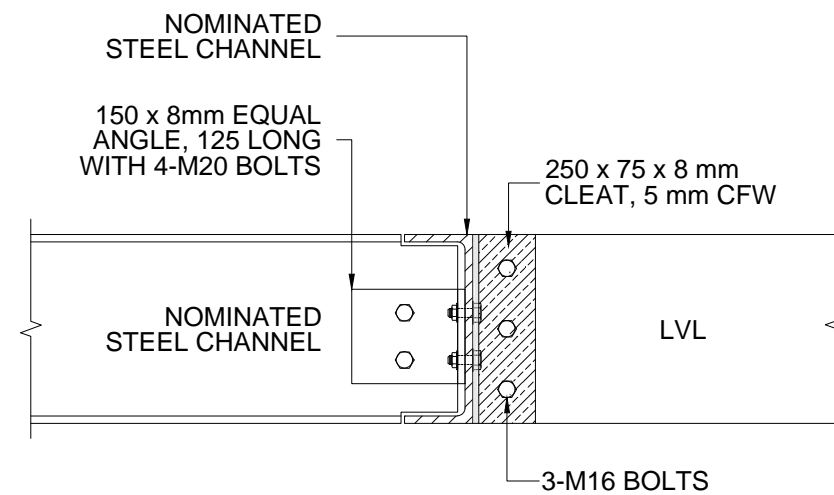
B.E. M.I.E. AUST.

REFERENCE 2017565 SHEET SIZE A3 SHEET No. 4
SCALE NTS JOB No. 96772M

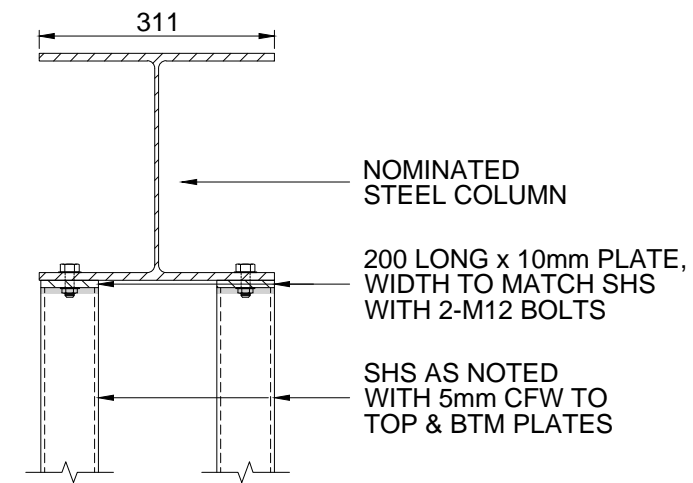


REVISION SCHEDULE

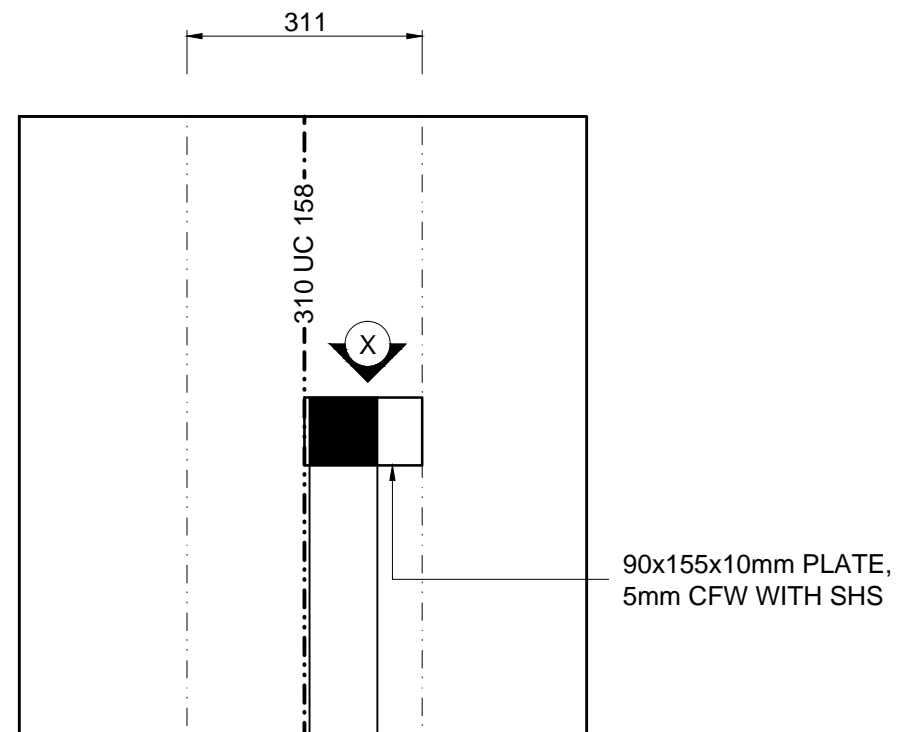
A ORIGINAL ISSUE FAUZAN 08/06/22
B PLAN AMENDED FAUZAN 14/07/22



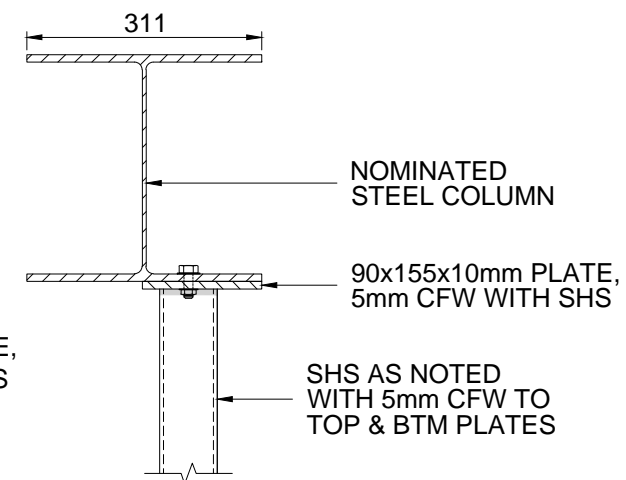
DETAIL A



DETAIL B



DETAIL C



SECTION X-X

STRUCTURAL STEEL DETAILS

CLIENT THEOHARIS
LOCATION LOT 48 (NO.13) POOLE STREET, KINGSGROVE

B.E. M.I.E. AUST.

REFERENCE	2017565	SHEET SIZE	A3	SHEET No.	5
SCALE	NTS	JOB No.	96772M		



REVISION SCHEDULE

A	ORIGINAL ISSUE	FAUZAN	08/06/22
B	PLAN AMENDED	FAUZAN	14/07/22