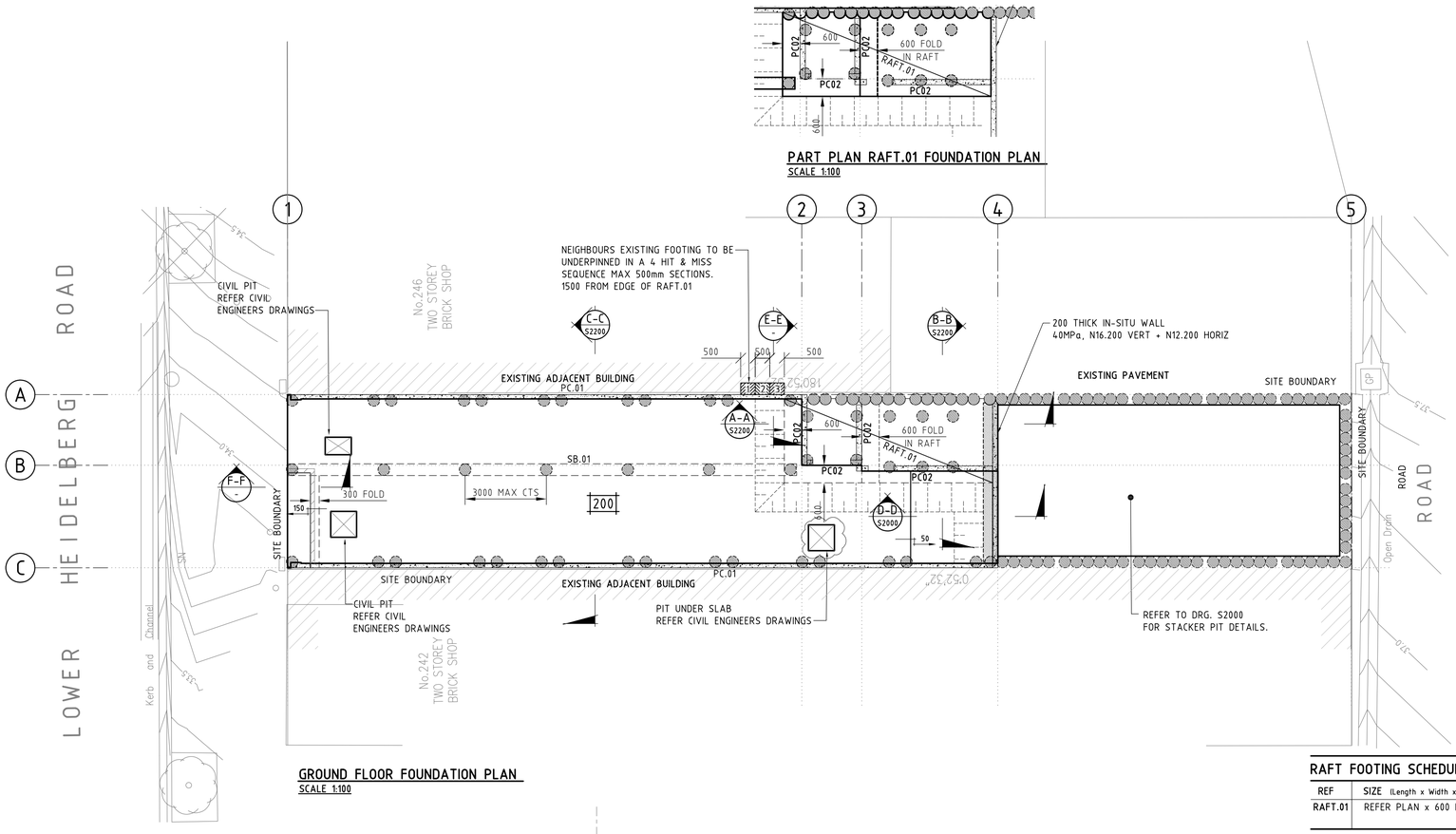
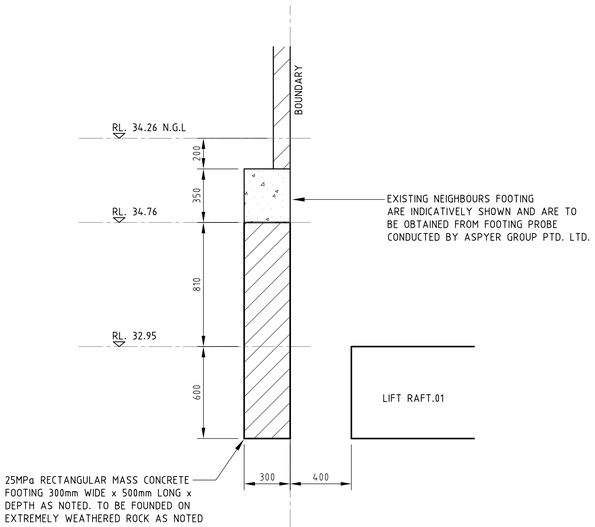
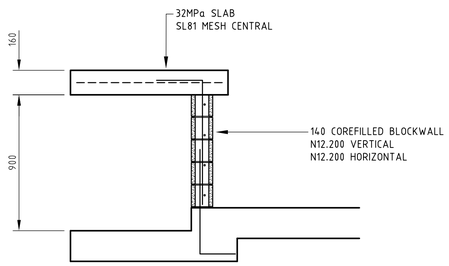


PART PLAN RAFT.01 FOUNDATION PLAN
SCALE 1:100

GROUND FLOOR FOUNDATION PLAN
SCALE 1:100



SECTION E-E
SCALE 1:20



SECTION F-F
SCALE 1:20

UNDERPINNING NOTES

U1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH RELATIVE SECTIONS.
U2. CONCRETE STRENGTH OF THE UNDERPINS SHALL BE F'c = 25MPa.
U3. THE BUILDER SHALL PROVIDE ANY PROPPING, SHORING Etc. NECESSARY TO SAFELY SUPPORT SIDES OF EXCAVATION SO AS TO PREVENT MOVEMENT AND ENSURE SAFETY OF PERSONNEL.
U4. ANY VARIATION IN FOOTINGS TO ADJACENT BUILDINGS TO THOSE ON THIS DRAWING IS TO BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.

CONSTRUCTION PROCEDURE

U5. UNDERPINNING SHALL BE CARRIED OUT IN SECTIONS NOT EXCEEDING 800mm (U.N.O) IN LENGTH AND TO THE FULL THICKNESS AS THE FOOTING BEING UNDERPINNED OR WIDER AS INDICATED ON THE DRAWINGS.
U6. UNDERPINS SHALL BE CONSTRUCTED IN THE NUMBERED SEQUENCE, STARTING WITH SECTIONS NOTED 1 THEN 2 AND 3 PROGRESSIVELY.
U7. THE FOOTING TO BE UNDERPINNED IS TO BE EXPOSED ONLY FOR THE WIDTH OF THE PIN.
U8. THE BOTTOM 300mm (MIN) OF THE UNDERPIN IS TO BE EMBEDDED IN UNDISTURBED MATERIAL. THOROUGHLY CLEAN OUT ALL LOOSE MATERIAL BEFORE PLACING CONCRETE.
U9. CONCRETE UNDERPIN SHALL BE BUILT TO WITHIN 50mm MIN AND 100mm MAX OF THE UNDERSIDE OF THE EXISTING FOOTING. ALL CLAY, LOOSE AGGREGATE ETC. SHALL BE REMOVED FROM THE EXISTING FOOTING BEFORE GROUTING COMMENCES.
U10. CONCRETE PLACED SHALL BE LEFT AT LEAST 24 HOURS BEFORE GROUTING. FACES OF ADJACENT SECTIONS SHALL BE THOROUGHLY CLEANED BEFORE PLACING THE NEW SECTION.
U11. EXCAVATION FOR SECTION 2 SHALL NOT BE STARTED UNTIL SECTION 1 IS COMPLETE, WITH TRANSFER OF LOADING. BALANCE OF UNDERPINS — SIMILAR PROCEDURE.

CONSTRUCTION PROCEDURE

U12. THE SPACE BETWEEN THE TOP OF THE CONCRETE UNDERPINNING AND THE UNDERSIDE OF THE EXISTING FOOTING SHALL BE FILLED WITH NON-SHRINK GROUT.
U13. THE GROUT MIX SHALL BE: 3 — 1 GRADED COURSE SAND TO CEMENT WITH "EXPANDITE" USED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MINIMUM STRENGTH OF GROUT IS TO BE 25 MPa AT THE TIME OF LOAD TRANSFER.
U14. THE GROUT MIX SHALL BE OF DRY CONSISTENCY, RAM PACKED OVER THE FULL WIDTH AND DEPTH OF THE UNDERPINNING AND SHALL HAVE A MINIMUM STRENGTH OF 10 MPa BEFORE EXCAVATING THE NEXT PIN SEQUENCE.

RAFT FOOTING SCHEDULE
F'c - 32MPa

REF	SIZE (Length x Width x Depth)	PAD FOOTING REINFORCEMENT
RAFT.01	REFER PLAN x 600 DEEP	N20.200 EW TOP & BOTTOM

SLAB BEAM SCHEDULE
F'c - 32MPa

REF	SIZE (Width x Depth)	FOOTING REINFORCEMENT
SB.01	400 W x 600 D	TOP BARS - 3.N24 BOTTOM BARS - 3.N24 CL1.N12.300 LIGS

GENERAL ARRANGEMENT NOTES - GROUND SLAB

1. FOR ALL GENERAL AND CONSTRUCTION NOTES, REFER TO DRAWING No. **S0001.**
2. FOR DETAILS OF RL'S, DIMENSIONS AND SETOUT ETC. REFER TO LATEST ARCHITECT'S + PROJECT ENGINEERS DRAWINGS. ANY VARIATION TO THAT SHOWN ON 'EDGE' DRAWINGS TO BE NOTIFIED TO 'EDGE' PRIOR TO THE COMMENCEMENT OF ANY WORKS.
3. **COLUMN + WALL DETAILS**

	DESCRIPTION
	CONCRETE COLUMN
	CONCRETE WALL
	CONCRETE UPSTAND
	BLOCK WALL
	NON LOAD BEARING WALL
	LOAD BEARING WALL/COLUMN UNDER

FOR ALL WALL DETAILS, REFER TO DRAWING S3000.

COLUMN REFERENCE SUFFIX
COLUMN REFERENCES ARE SUFFIXED ON PLAN THUS... **X.C01 (u)**
WHERE SUFFIX DENOTES...
(u) DENOTES COLUMN UNDER ONLY
(o) DENOTES COLUMN OVER ONLY
(c) DENOTES COLUMN CONTINUOUS - BELOW TO ABOVE
(d) DENOTES COLUMN DISCONTINUOUS - UNDER + OVER

4. 888 DENOTES MINIMUM SLAB DEPTH ON PLAN
5. 888 DENOTES STEP IN TOP OF SLAB
6. INDICATES EXTENT OF 30mm MAXIMUM SETDOWN IN TOP OF SLAB TO WET AREAS
7. JOINTS IN FLOOR SLABS TO BE AS FOLLOWS...
   - M.J. DENOTES MOVEMENT JOINT
   - C.J. DENOTES CONSTRUCTION JOINT
   - D.J. DENOTES DOWELLED CONSTRUCTION JOINT
   - K.J. DENOTES KEY CONSTRUCTION JOINT
   - S.C. DENOTES SAW CUT JOINT

   PROVIDE NOMINAL 10mm WIDE FLEXIBLE ISOLATION JOINT TYPICAL, LOCAL TO ALL SLAB ABUTMENTS WITH CONCRETE COLUMNS, CAVITY AND BLOCK WALLS. JOINT TO BE FULL DEPTH FILLED WITH APPROVED COMPRESSIBLE FILLER ALL SEALED TO ARCHITECTS SPECIFICATION. U.N.O.
   FOR DETAILS OF ALL SLAB JOINTS, REFER DRAWING S2200.
8. **NOTE - SUB BASE PREPARATION**
   APPROVED PREPARED SUB BASE TO HAVE MINIMUM BEARING CAPACITY OF **250 kPa.**
   (TO BE CONFIRMED ON SITE BY A QUALIFIED GEOTECHNICAL ENGINEER).
   EXCAVATE ALL LOOSE MATERIAL.
   WHERE AREAS DO NOT ACHIEVE MINIMUM BEARING CAPACITY, REMOVE MATERIAL AND IMPORT AND RECOMPACT CBR10 MATERIAL IN 300mm LAYERS TO ACHEIVE REQUIRED BEARING CAPACITY.
   PROOF ROLL PRIOR TO CASTING BLINDING LAYER.
   SLAB ON GROUND TO BE CAST ON 1 LAYER 0.2mm POLYTHENE SHEET ON 50mm MINIMUM SAND BLINDING LAYER ALL ON APPROVED PREPARED SUB BASE.
9. **INTERNAL + EXTERNAL THICKENINGS**
   ALL INTERNAL SLAB EDGES TO BE TURNED DOWN ONTO FOOTINGS AS DETAILED ON SECTIONS DRAWING
10. **TYPICAL SLAB ON GROUND**
    200 ALL SLAB ON GROUND UNLESS NOTED OTHERWISE ON PLAN TO BE 200mm THICK MINIMUM TYPICAL THROUGHOUT
    CONCRETE STRENGTH f'c = 32 MPa
    SLAB CAST ON APPROVED DAMP PROOF MEMBRANE ON 50mm SAND BLINDING ALL ON PREPARED SUB BASE.
    (REFER SUBGRADE PREPARATION NOTES ON DRAWING S581)
11. **CURING PROPERTIES**
    CURING OF ALL CONCRETE SHALL BE ACHEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE PROPOSED.
    ONLY WAX BASED AND CHLORINATED RUBBER CURING COMPOUNDS WILL BE ACCEPTED. SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
12. **TRIMMER SCHEDULE**
    'W' DENOTES 4.N12 x 1200 LONG TRIMMER BARS (2 EACH CORNER) AT 45° TO CORNERS OF COLUMNS NOTED. TRIMMER BARS NOT SHOWN ON PLAN.
    'X' DENOTES 4.N12 x 1200 LONG TRIMMER BARS (2 EACH FACE) AT ALL RE-ENTRANT CORNERS. EXTEND MINIMUM 600mm PAST EDGE OF CORNER (INCLUDING DISTRIBUTION REINFORCEMENT). TRIMMER BARS NOT SHOWN ON PLAN.
    'Y' DENOTES 2.N12 TRIMMER BARS AT 100mm CENTRES EACH SIDE OF PENETRATION. EXTEND MINIMUM 600mm PAST EACH CORNER. TRIMMER BARS NOT SHOWN ON PLAN.
    'Z' DENOTES 2.N12 x 1200 LONG TRIMMER BARS AT 100mm CENTRES TO END OF JOINT IN SLAB. TRIMMER BARS NOT SHOWN ON PLAN.
    FIRST TRIMMER TO BE LOCATED TO HAVE 75mm COVER FROM SIDES OF PENETRATION OR VOID.

NORTH

Rev	Date	Description	By	Chk
C02	03.02.21	ISSUED FOR CONSTRUCTION	D.A.	J.M.
C01	22.09.20	ISSUED FOR CONSTRUCTION	D.A.	J.M.
P04	13.07.20	PRELIMINARY - Issued for Information	D.A.	J.M.
P03	01.07.20	PRELIMINARY - Issued for Information	D.A.	J.M.
P02	30.01.20	PRELIMINARY - Issued for Information	D.A.	J.M.
P01	10.09.19	PRELIMINARY - Issued for Information	R.R.	J.M.

EDGE CONSULTING ENGINEERS
www.edgece.com
Melbourne . Australia
Unit 202, Level 2, 187 Boundary Road,
North Melbourne,
Victoria, 3051,
Australia
T: +61 3 9326 9068
E: melbourne@edgece.com

DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!

Project Name
PROPOSED COMMERCIAL DEV'T.
244 LOWER HEIDELBERG ROAD,
IVANHOE EAST, VIC 3079

Client
MARK MILANO OCEANIA UNIVERSAL

Designed	Drawn	Checked	Scale @ A1
E.B.	D.A.	J.M.	1:100

Drawing Title
GROUND FLOOR SLAB FOUNDATION PLAN

Project No. 19589
ISSUED FOR CONSTRUCTION
Drawing No. S2100
Revision C02

PLOT DATE: 3/2/2021 10:50 AM
FILENAME: X:\EDGE\AU-DB\DWG\MEL\19589 - 244 LOWER HEIDELBERG RD\DWG MASTER\19589_S2100-GROUND FLOOR GA.DWG

0 mm 10 20 30 40 50