

LEGEND



EXISTING TREE TO REMAIN

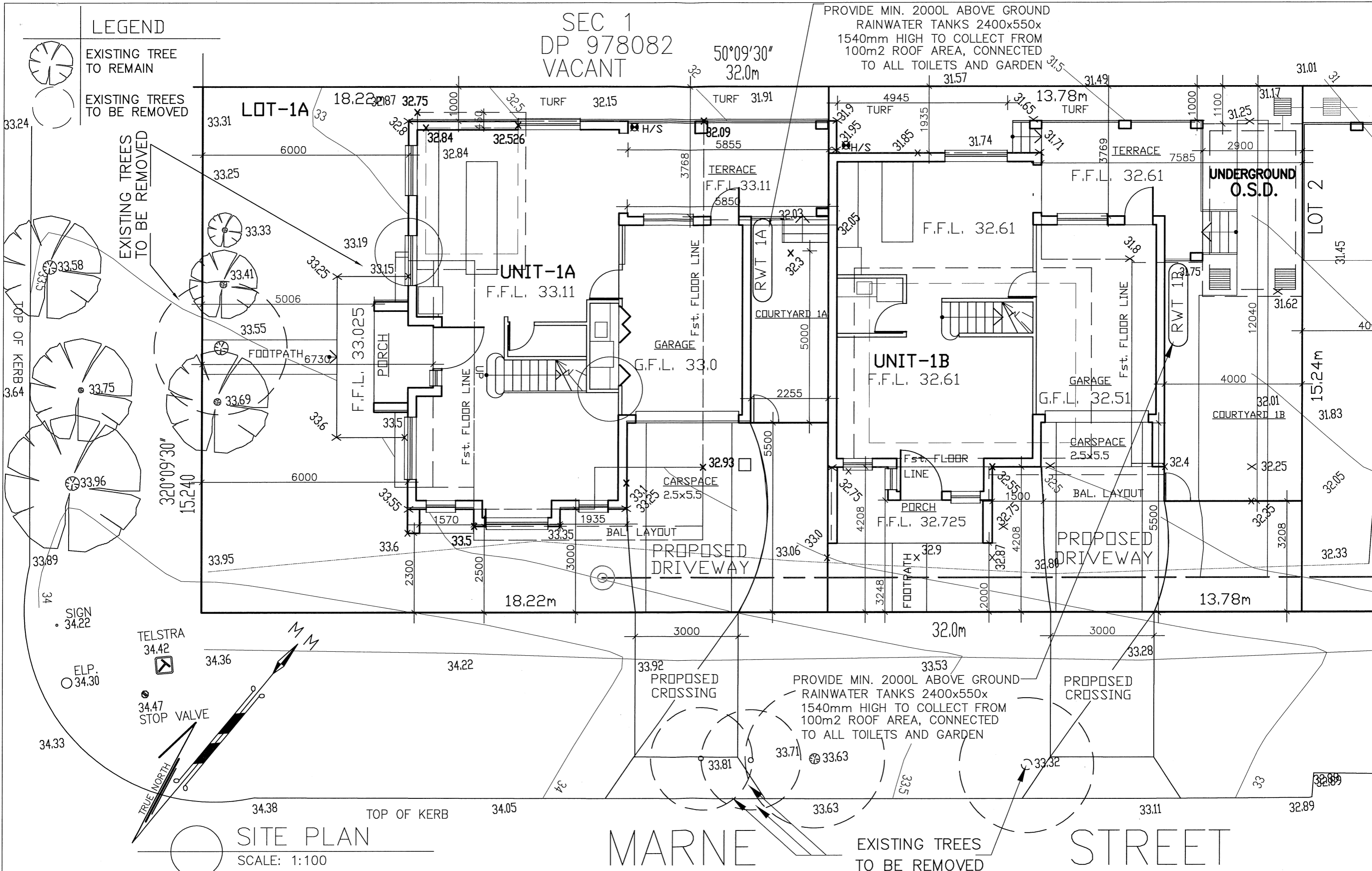


EXISTING TREES TO BE REMOVED

SEC 1
DP 978082
VACANT

50°09'30"
32.0m

PROVIDE MIN. 2000L ABOVE GROUND
RAINWATER TANKS 2400x550x
1540mm HIGH TO COLLECT FROM
100m2 ROOF AREA, CONNECTED
TO ALL TOILETS AND GARDEN



SITE PLAN

SCALE: 1:100

MARNE

STREET

D	C.C STAGE	19-05-17	A.M
C	AMENDMENT	27-03-17	M.M
B	AMENDMENT	27-02-17	A.S.
A	AMENDMENT	30-11-16	A.S.
ISSUE	AMENDMENT	DATE	CHECKED



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 69 CHAPEL ROAD SOUTH, BANKSTOWN, NSW 2200
 EMAIL: design@ude.com.au WEB SITE: www.ude.com.au
 Ph: (02) 9796-4317 Fax: (02) 9790-3966



PROJECT:
 PROPOSED DUPLEX DEVELOPMENT
 AT LOT 1 DP 1208825
 AT NO 20 MARNE STREET - PORT KEMBLA
 FOR MR. ZORAN

DRAWING TITLE:
 DETAILS
 SHEET: 1/5

DESIGNED BY: SAM SAKR REV: S.S.
 DATE: 20/10/16 SCALE: 1:100
 CAD FILE NAME: Z:\2013\AR\253 DRAWN: A.M.

CALCULATIONS

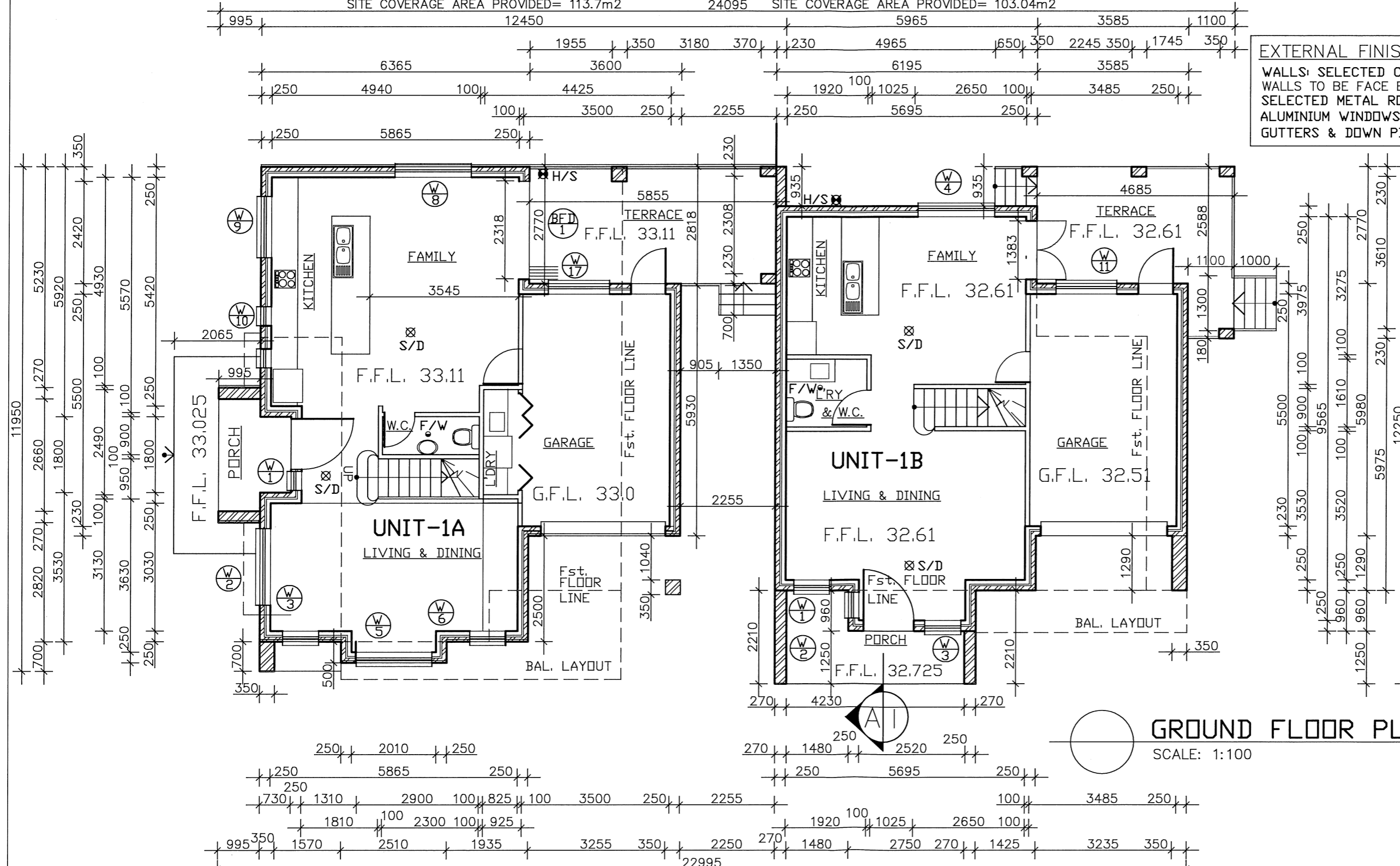
SITE AREA : 487.70m²
 AREA ALLOWED TO BUILD 50%=243.85m²

	Gnd Flr AREA (WITHOUT PORCHES & GARAGE)	Fst Flr AREA (WITHOUT STAIRS)	COURTYARD AREA	NO OF CARSPACES	GARDEN & LAWN AREA
UNIT-1A-	62.9	65.28m ²	33.7m ²	1	129.0m ²
UNIT-1B-	51.9m ²	59.3m ²	103.5m ²	1	87.27m ²

LANDSCAPE AREA REQUIRED 20% = 97.54m²
 LANDSCAPE AREA PROVIDED = 197.85m²

TOTAL FLOOR AREA = 239.38m²
 LOT-1A AREA = 277.58m²
 SITE COVERAGE AREA REQUIRED = 50% = 138.79m²
 SITE COVERAGE AREA PROVIDED = 113.7m²

LOT-1B AREA = 210.12m²
 SITE COVERAGE AREA REQUIRED = 50% = 105.06m²
 SITE COVERAGE AREA PROVIDED = 103.04m²



EXTERNAL FINISHES
 WALLS: SELECTED CEMENT RENDERED.....CREAMY
 WALLS TO BE FACE BRICK.....CREAMY\ BROWN COLOR
 SELECTED METAL ROOF SHEETS..... MEDIUM COLOR
 ALUMINIUM WINDOWS & DOORS.....BLACK COLOR
 GUTTERS & DOWN PIPES.....BLACK COLOR

ENERGY EFFICIENCY DETAILS			
ONE DWELLING	CONSTRUCTION	INSULATION	COLOUR
EXTERNAL WALLS	BRICK VENEER	R1.36 (OR 1.90 INCLUDING CONSTRUCTION)	
INTERNAL WALL	CONSTRUCTION	INSULATION	COVERING
SHARED WITH GARAGE	PLASTERBOARD	NIL	
FLOORS	CONSTRUCTION	INSULATION	COVERING
CONCRETE SLAB ON GROUND		NIL	
SUSPENDED FLOOR ABOVE GARAGE, FRAMED		NIL	
CEILINGS	CONSTRUCTION	INSULATION	
FLAT CEILING		R2.5(UP)	FRAMED
ROOF	CONSTRUCTION	INSULATION	COLOUR
FLAT ROOF/FRAMED	FOIL (SARKING)		MEDIUM - SA 0.475-0.7
CEILINGS	CONSTRUCTION	INSULATION	
RACKED CEILING		R2.5(UP)	FRAMED
ROOF	CONSTRUCTION	INSULATION	COLOUR
PITCHED OR SKILLION ROOF/FRAMED	FOIL (SARKING)		MEDIUM - SA 0.475-0.7
WINDOWS/UNIT 1A	PRODUCT ID	GLASS	FRAME
W15-W16	SINGLE CLEAR (OR U-VALUE: 7.63, SHGC:0.75)		STANDARD ALUMINIUM
W1-W2-W9-W10-W11-W12-W13-BFD1-SD1-SD2-SD3	SINGLE PYROLYTIC LOW-E (U-VALUE: 4.46, SHGC:0.46)		IMPROVED ALUMINIUM
W3-W5-W6-W8	SINGLE CLEAR (OR U-VALUE: 6.44, SHGC:0.75)		IMPROVED ALUMINIUM
W4	SINGLE TONED (OR U-VALUE: 7.57, SHGC:0.57)		STANDARD ALUMINIUM
WINDOWS/UNIT 1B	PRODUCT ID	GLASS	FRAME
W1-W2-W3-BFD1	SINGLE CLEAR (OR U-VALUE: 7.63, SHGC:0.75)		STANDARD ALUMINIUM
W4	SINGLE CLEAR (OR U-VALUE: 6.44, SHGC:0.75)		IMPROVED ALUMINIUM
W5-W8	SINGLE TONED (OR U-VALUE: 7.57, SHGC:0.57)		STANDARD ALUMINIUM
W6-W7-W9-W10-SD1-SD2	SINGLE PYROLYTIC LOW-E (U-VALUE: 5.7, SHGC:0.47)		STANDARD ALUMINIUM

GROUND FLOOR PLAN
 SCALE: 1:100

ISSUE	AMENDMENT	DATE	CHECKED
D	C.C STAGE	19-05-17	A.M
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 PROPOSED DUPLEX DEVELOPMENT
 AT LOT 1 DP 1208825
 AT NO 20 MARNE STREET - PORT KEMBLA
 FOR MR. ZORAN

DRAWING TITLE:
 DETAILS
 SHEET: 2/5

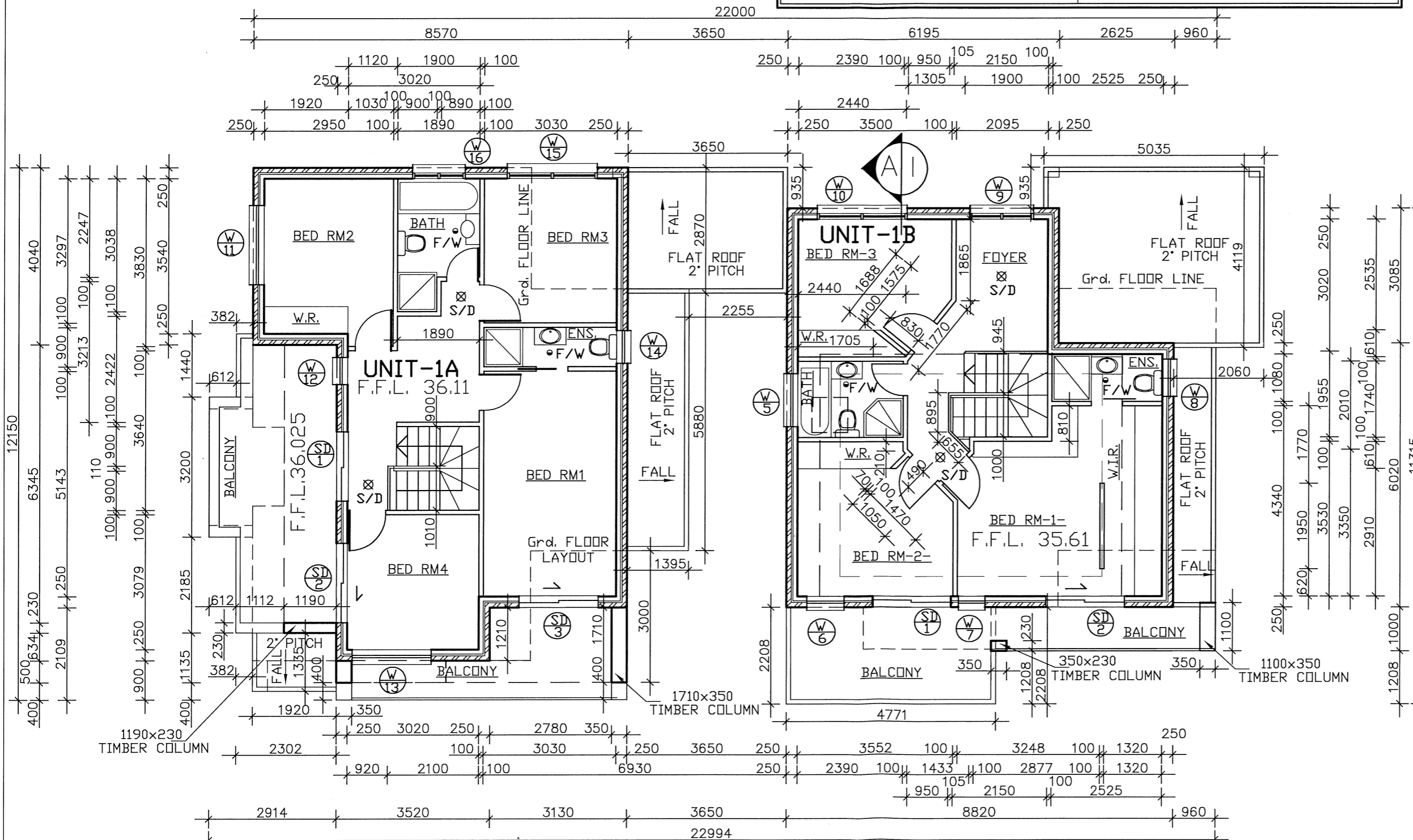
DESIGNED BY: SAM SAKR
 DATE: 20/10/16
 CAD FILE NAME:
 Z:\2013\AR'253

REV: S.S.
 SCALE:
 1:100
 DRAWN:
 A.M.

BASIX DETAILS

NOTE: ALL REQUIREMENTS TO COMPLY WITH THE BASIX CERTIFICATE NUMBER: UNIT 1A= 7727985 UNIT 1B= 7730305

- PROVIDE GAS HOT WATER SYSTEM OR A SYSTEM WITH A HIGHER ENERGY RATING: GAS INSTANTANEOUS WITH A PERFORMANCE OF 3.5 STARS(UNIT 1A) & 4 STARS(UNIT 1B) .
- SHOWERHEADS WITH MIN. RATING OF 3 STAR (>6 BUT <=7.5 L/min)UNIT-1A & 3 STAR (>7.5 BUT<=9 L/min)UNIT-1B TO BE INSTALLED IN ALL SHOWER
- A TOILET FLUSHING SYSTEM WITH MIN. RATING OF 3 STAR TO BE INSTALLED IN EACH TOILET
- TAPS WITH MIN. RATING OF 3 STAR TO BE INSTALLED IN THE KITCHEN
- BASIN TAPS WITH MIN. RATING OF 3 STAR TO BE INSTALLED IN EACH BATHROOM
- PROVIDE COOLING SYSTEM OR A SYSTEM WITH A HIGHER ENERGY RATING IN AT LEAST 1 LIVING AREA & 1 BEDROOM: AIRCONDITIONING DUCTING ONLY; ENERGY RATING:N/A
- PROVIDE HEATING SYSTEM OR A SYSTEM WITH A HIGHER ENERGY RATING IN AT LEAST 1 LIVING AREA & 1 BEDROOM: AIRCONDITIONING DUCTING ONLY; ENERGY RATING:N/A
- INDIVIDUAL FAN IN THE KITCHEN AND L'DRY DUCTED TO FACADE OR ROOF. OPERATION CONTROL: MANUAL SWITCH ON/OFF
- INDIVIDUAL FAN TO AT LEAST 1 BATHROOM, DUCTED TO FACADE OR ROOF. OPERATION CONTROL: MANUAL SWITCH ON/OFF
- PROVIDE WATERTANK SIZE (MIN) 2000 LITRES TO COLLECT RUNOFF FROM AT LEAST:100m2 OF THE ROOF AREA AND MUST CONNECT TO ALL TOILETS, AND AT LEAST ONE OUTDOOR TAP
- THE APPLICANT MUST ENSURE THAT THE PRIMARY TYPE OF ARTIFICIAL LIGHTING IS FLORESCENT OR LIGHT EMITTING DIODE(LED) LIGHTING IN AT LEAST 1 OF THE LIVING /DINING ROOM; DEDICATEDIN UNIT 1A
- THE APPLICANT MUST ENSURE THAT THE PRIMARY TYPE OF ARTIFICIAL LIGHTING IS FLORESCENT OR LIGHT EMITTING DIODE(LED) LIGHTING IN ALL HALLWAYS; DEDICATED, AT LEAST 2 OF THE BEDROOMS/STUDY; DEDICATED & AT LEAST 2 OF THE LIVING/DINING ROOMS; DEDICATEDIN UNIT 1B
- THE APPLICANT MUST INSTALL A WINDOW & OR SKYLIGHT IN THE KITCHEN AND 2 BATHROOM/TOILET FOR NATURAL LIGHTING
- PROVIDE GAS COOKTOP & ELECTRIC OVEN IN THE KITCHEN
- A FIXED OUTDOOR CLOTHES DRYING LINE MUST BE INSTALL



- C.C. NOTES:**
DUPLEX
- ALL PARTY WALLS TO BE 270mm THICK, DOUBLE BRICK WALL, RENDERED BOTH SIDES AND BUILT TO THE UNDERSIDE OF THE ROOF COVERING TO ACHIEVE MIN. FIRE AND NOISE INSULATION LEVELS AS SET OUT IN THE B.C.A. (60x60x60)
 - LOCATION AND INSTALLATION OF SMOKE ALARMS TO COMPLY WITH THE PART 3.7.2.2 OF BCA AND AS3786
 - STAIR CONSTRUCTION COMPLYING WITH PART 3.9.1 BCA INCLUDING GEOMETRY AND CONSTRUCTION REQUIREMENTS
 - PROVIDE 1m MIN HIGH HANDRAILS AND BALUSTRADE AROUND STAIR VOID AND BALCONIES COMPLYING WITH PART 3.9.2 BCA 96 V01.2, & NOT ALLOWING A SPHERE 125mm DIAM. TO PASS THROUGH THEM
 - DOORS TO WATER CLOSETS THAT ARE LESS THAN 1.2m FROM THE TOILET SPAN ARE TO BE READILY REMOVABLE FROM THE OUTSIDE COMPARTMENT & IN ACCORDANCE WITH BUILDING CODE OF AUSTRALIA 2015, REFER 3.8.3.3.
 - WATERPROOFING OF WET AREAS INCLUDING BATHRMS, SHOWERS, LAUNDRIES, SANITARY COMPARTMENTS AND THE LIKE COMPLYING WITH PART 3.8.1. BCA AND AUSTRALIAN STANDARD 3740
 - FIRE SEPARATION AND CONSTRUCTION BETWEEN OCCUPANCIES TO COMPLY WITH PART 3.7.1.8 IN ACCORDANCE WITH BUILDING CODE OF AUSTRALIA 2015
 - SOUND TRANSMISSION AND INSULATION BETWEEN OCCUPANCIES TO COMPLY PART 3.8.6.IN ACCORDANCE WITH BUILDING CODE OF AUSTRALIA 2015
 - SITE TREATMENT FOR TERMITE PROTECTION IS TERMI-MESH METHOD RISK MANAGEMENT TO COMPLY WITH THE PART 3.1.3 OF BCA AND AS3660.1
 - THE DEVELOPER MUST ENSURE THAT APPROPRIATE DUST SUPPRESSION MEASURES ARE INSTALLED/UTILISED DURING THE PERIODS OF EXCAVATION/PLACEMENT OF FILL / CONSTRUCTION & TO BE COVER UP OR USE WATERING SYSTEM.
 - LIGHTING MUST BE PROVIDED TO THE ENTRIES OF THE DWELLINGS, DRIVEWAYS AND PARKING AREAS TO PROMOTE A HIGH LEVEL OF SAFETY AND SECURITY AT NIGHT AND SHOULD BE HOODED.
 - MASONRY CONSTRUCTION MUST BE COMPLY WITH PART 3.3 BCA VOL.2
 - SKYLIGHTS MUST NOT STAND LESS THAN 900 mm FROM THE SEPARATING WALL TO COMPLY WITH PART 3.7.1.10 OF THE BCA.
 - MECHANICAL VENTILATION TO ALL L'DRIES & BATHROOM IN UNIT 1&2/ Grd FLOOR MUST BE SPECIFIED TO COMPLY WITH AS 1668.2.
 - ALL TIMBER ARE TO COMPLY TO AUST. 1684- PART 2&4
 - THE SANITARY WINDOW IS TO BE TRANSLUCENT GLASS
 - ALL PROPOSED FIRST FLOOR BED Rm WINDOWS SHALL BE PROTECTED & TO COMPLY WITH 3.9.2.5 OF THE BCA.

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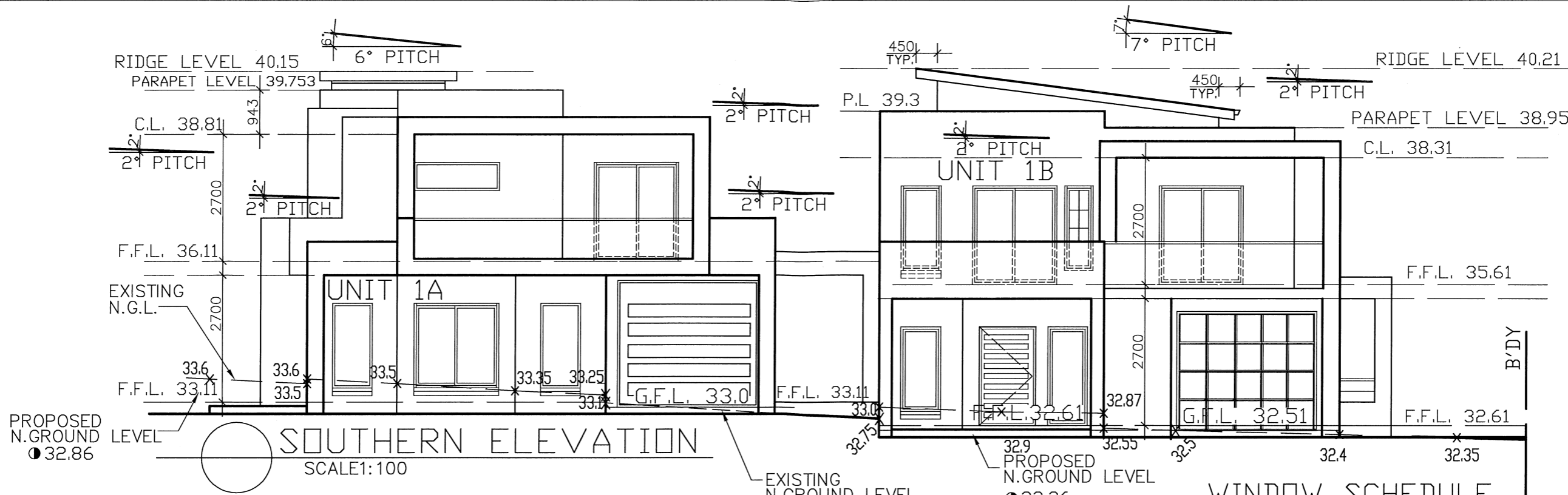
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 AT LOT 1 DP 1208825
 AT NO 20 MARNE STREET - PORT KEMBLA
 FOR MR. ZORAN

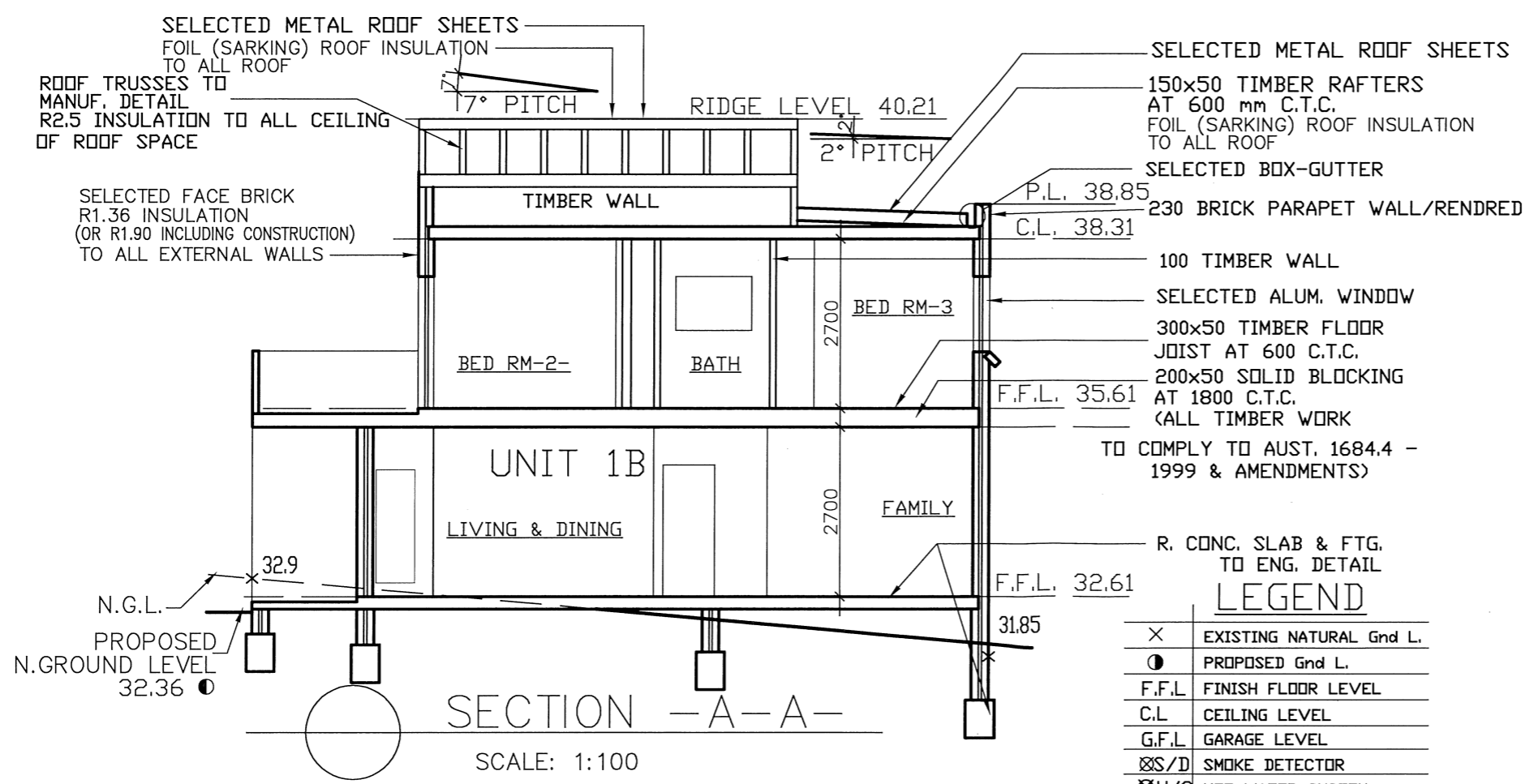
DRAWING TITLE:
 DETAILS
 SHEET: 3/5

DESIGNED BY: SAM SAKR	REV: S.S.
DATE: 20/10/16	SCALE: 1:100
CAD FILE NAME: Z:\2013\AR'253	DRAWN: A.M.



WINDOW SCHEDULE

WINDOW NAME	HEIGHT mm	WIDTH mm	
UNIT 1A			
W1	2100	450	FIXED WINDOW
W2	1800	1810	SLIDING WINDOW
W3-W6	1800	850	FIXED WINDOW
W5	1800	1810	SLIDING WINDOW
W8-W11 W13	1200	1810	SLIDING WINDOW
W9-W10	600	1450	FIXED WINDOW
W12	1800	610	SLIDING WINDOW
W14	857	850	SLIDING WINDOW
W15	1200	2050	SLIDING WINDOW
W16	857	1210	SLIDING WINDOW
W17	1200	1450	SLIDING WINDOW
SD1-SD2-SD3	2100	1810	SLIDING DOOR
BFD1	2100	2300	BI-FOLDING DOOR
UNIT 1B			
W1	1800	850	FIXED WINDOW
W2-W7	1800	610	FIXED WINDOW
W3	2100	850	FIXED WINDOW
W4	1200	1810	SLIDING WINDOW
W5	857	1210	SLIDING WINDOW
W6	1800	850	SLIDING WINDOW
W8	857	850	SLIDING WINDOW
W10	1200	2050	SLIDING WINDOW
W9	1200	1450	SLIDING WINDOW
W11	1200	1450	SLIDING WINDOW
SD1-SD2	2100	1810	SLIDING DOOR



LEGEND

X	EXISTING NATURAL Gnd L.
●	PROPOSED Gnd L.
F.F.L	FINISH FLOOR LEVEL
C.L	CEILING LEVEL
G.F.L	GARAGE LEVEL
⊗S/D	SMOKE DETECTOR
⊗H/S	HOT WATER SYSTEM
○F/W	FLOOR WASTE
P.L	PARAPET LEVEL

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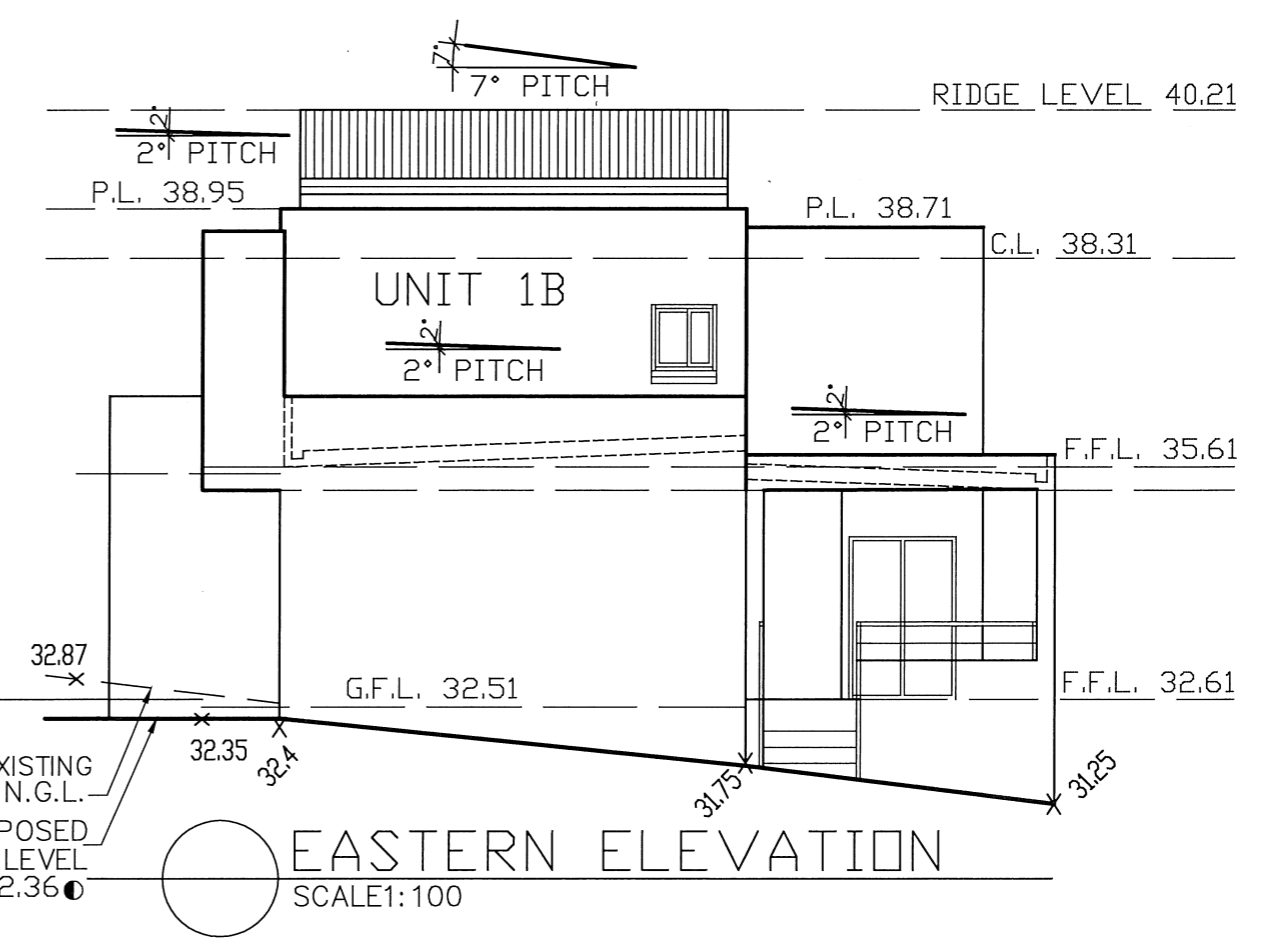
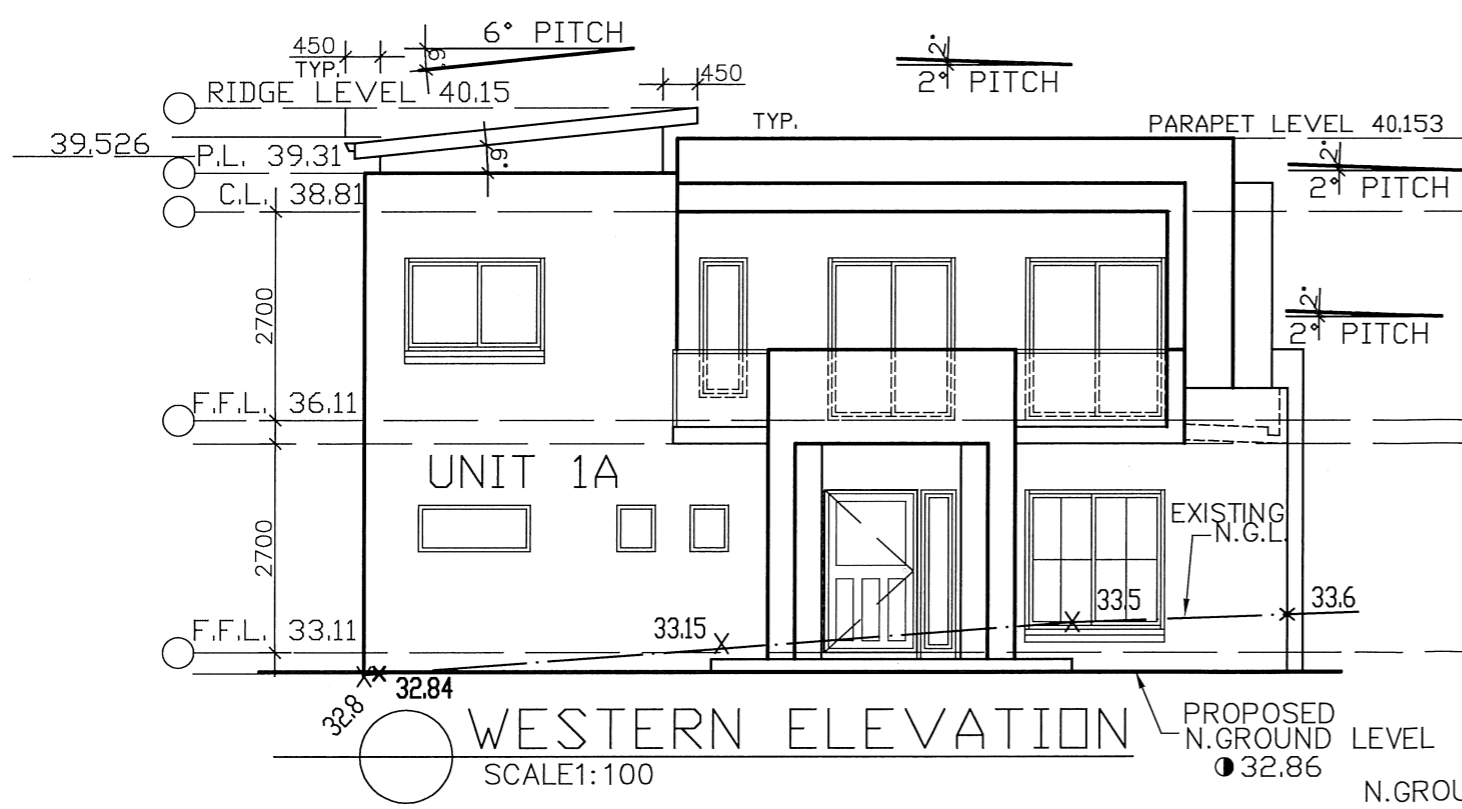
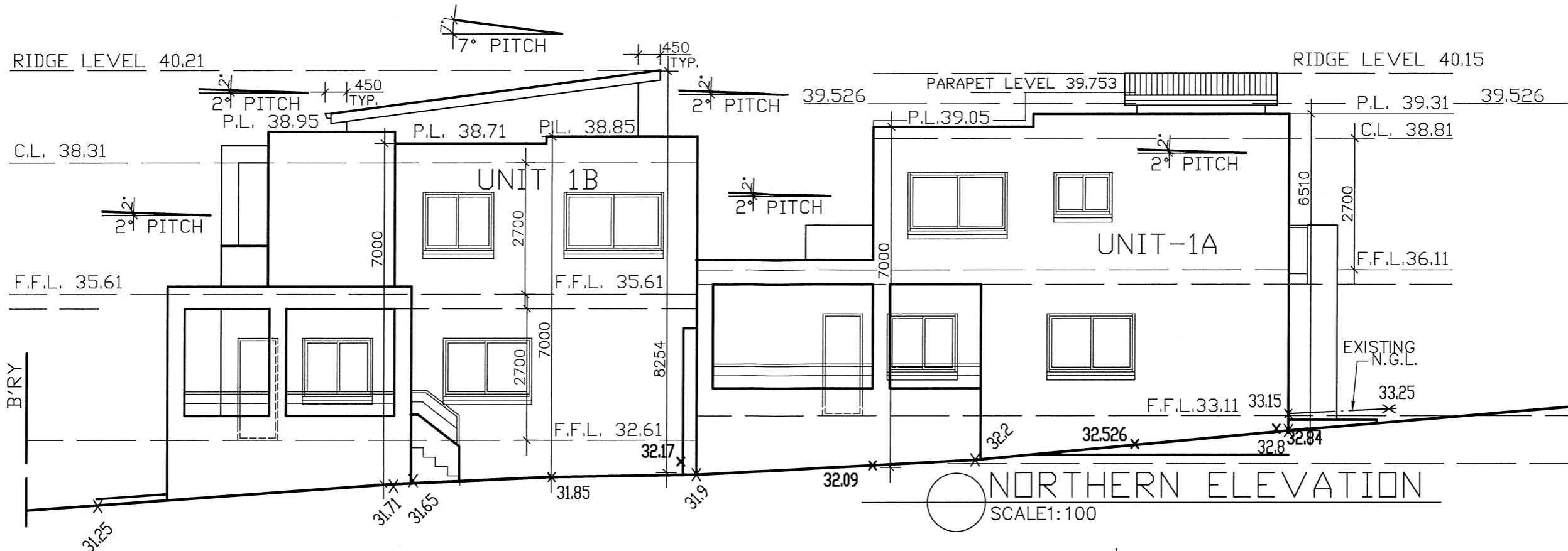
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FOR MR. ZORAN

DRAWING TITLE:
DETAILS
SHEET: 4/5

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DATE: 20/10/16 SCALE: 1:100
CAD FILE NAME: Z:\2013\AR'253 DRAWN: A.M.



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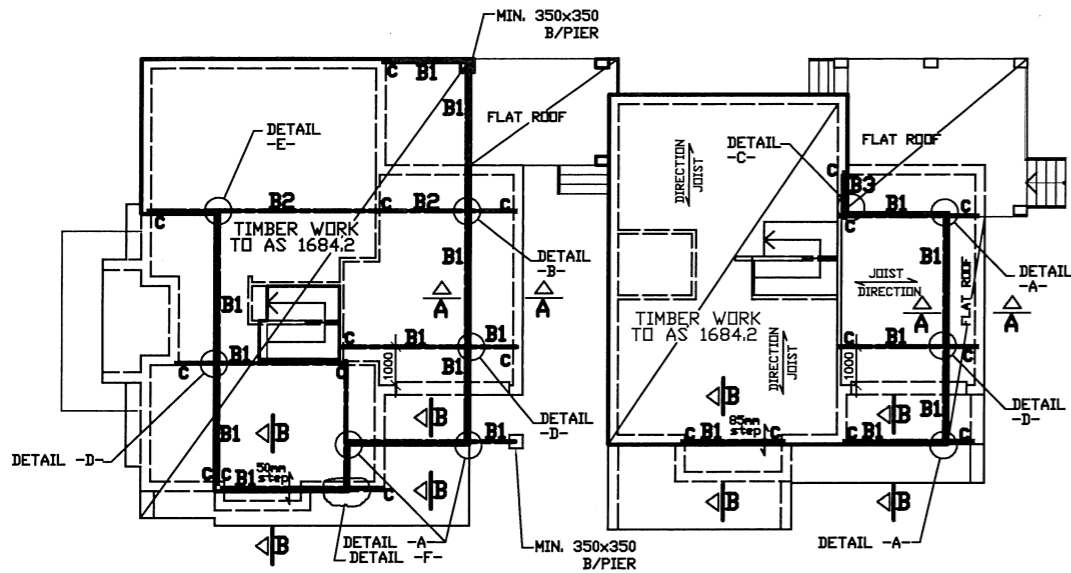
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 AT LOT 1 DP 1208825
 AT NO 20 MARNE STREET - PORT KEMBLA
 FOR MR. ZORAN

DRAWING TITLE:
 DETAILS
 SHEET: 5/5

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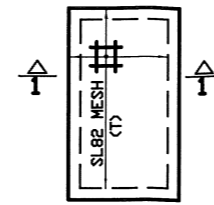
FIRST FLOOR PLAN

BEAM LAYOUT

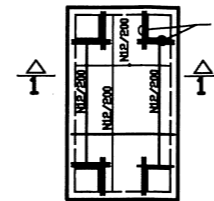
- B1: 250 UB 37.3
- B2: 310 UB 46.2
- B3: 200 UB 25.4

NOTE 1 FOR B2 USE STIFFNER PLATES STARTING AS FIRST OVER THE COLUMN & THEN PLATE @ 600mm C.T.C.
 PLATE SIZE : 280X79X10 WELDED AROUND FLANGE & WEB ON BOTH SIDE.

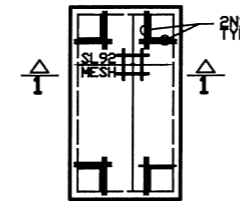
NOTE 2 IF NORMAL F7 TIMBER IS NOT WORKING FOR JOIST SPANS, YOU CAN USE HY-SPAN TIMBER AND SUBJECT TO HY-SPAN TABLES, DETAILS AND SPECIFICATION.



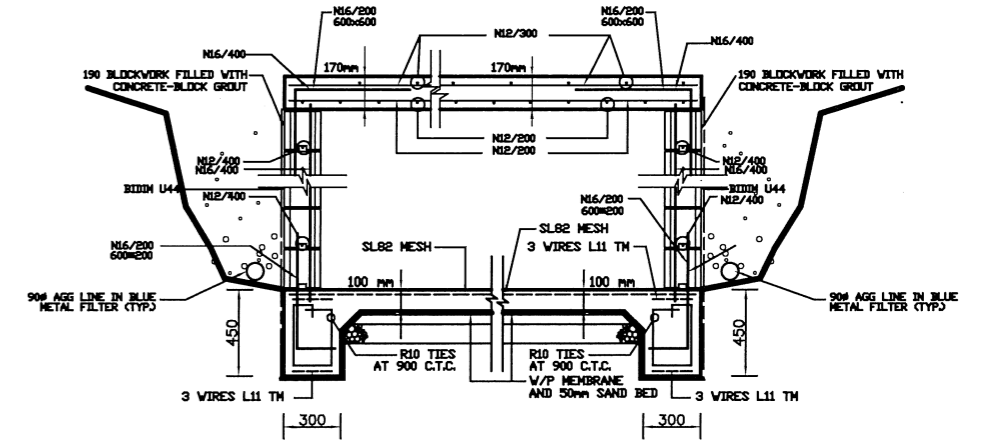
TANK /BASE SLAB
REINFORCEMENT DETAILS
 100mm SLAB THICKNESS



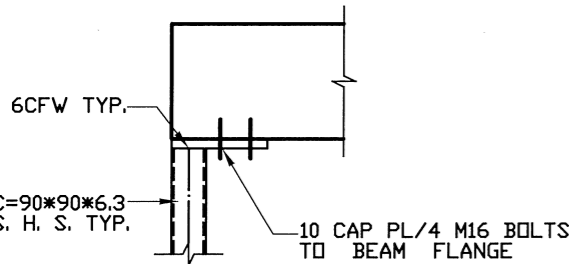
TANK /TOP SLAB
BTM REINFORCEMENT
 170 mm SLAB THICKNESS



TANK /TOP SLAB
TOP REINFORCEMENT

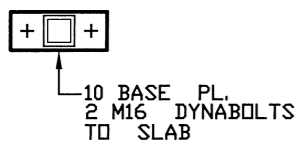


SECTION -1-1-



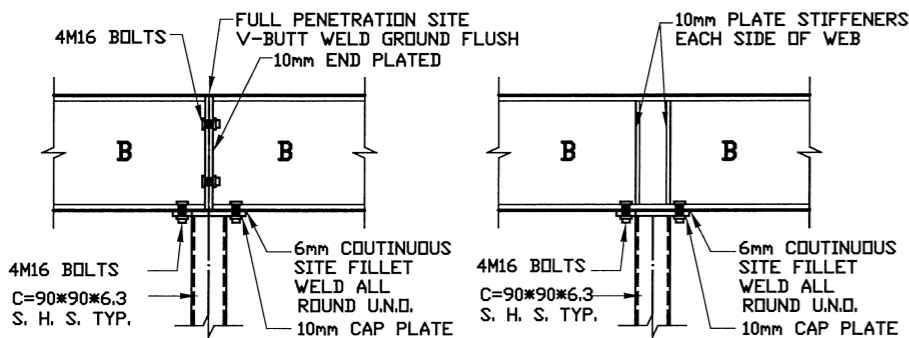
TYP. BEAM COLUMN CONNECTION

SCALE: 1/10



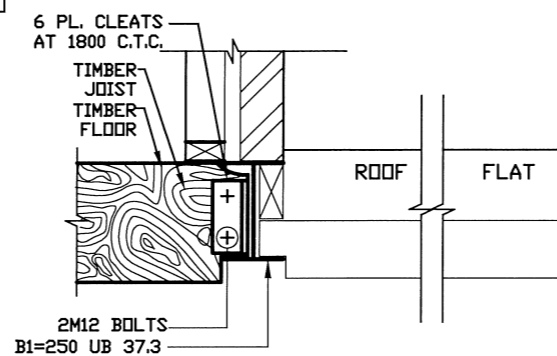
TYP. COLUMN BASE PL.

SCALE: 1/10



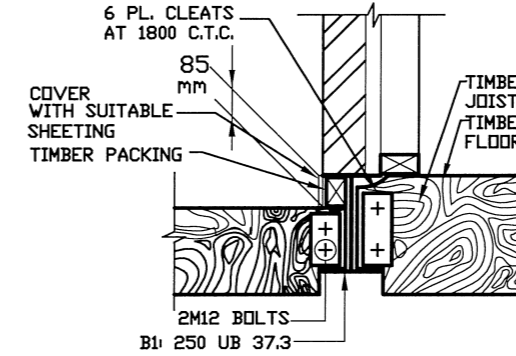
BEAMS CONNECTIONS DETAILS

FLOOR JOISTS AND NAILING PLATE OMITTED FOR CLARITY



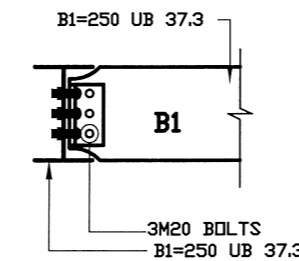
SECTION -A-A-

SCALE: 1/10



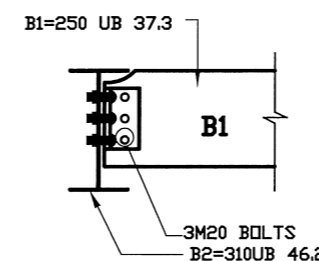
SECTION -B-B-

SCALE: 1/10



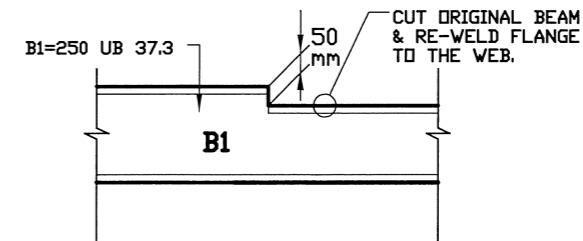
DETAIL -A-

SCALE: 1/10

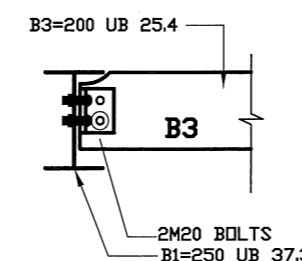


DETAIL -E-

SCALE: 1/10

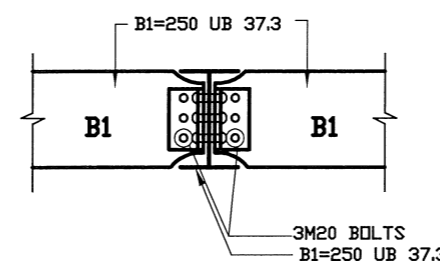


DETAIL -F-



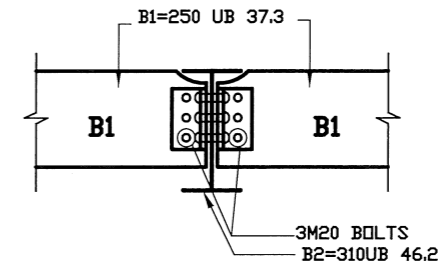
DETAIL -C-

SCALE: 1/10



DETAIL -D-

SCALE: 1/10



DETAIL -B-

SCALE: 1/10



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PROJECT:
 STRUCTURAL DETAILS FOR PROPOSED
 DUPLEX DEVELOPMENT
 AT LOT 1 DP 1208825
 AT NO 20 MARNE STREET - PORT KEMBLA
 FOR MR. ZORAN

DRAWING TITLE:
 FIRST FLOOR PLANS, SECTIONS & O.S.D. DETAILS

SHEET: 2/2

DESIGNED BY: HASSAN SAKR
 B.E.(HONS), M.STRUCT.ENG., M.I.E.AUST., F.I.E.AUST., CPENG.
 NPER (CIVIL/ STRUCTURE), ACCREDITED CERTIFIER (CIVIL/STRUCTURE), PROJECT MANAGER

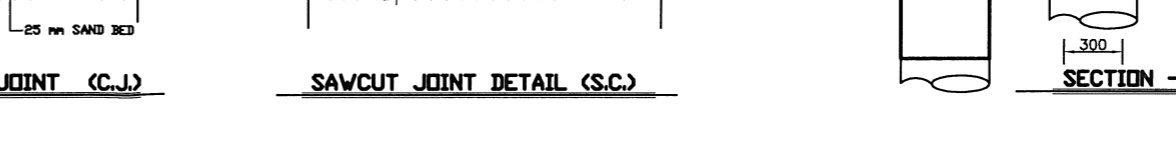
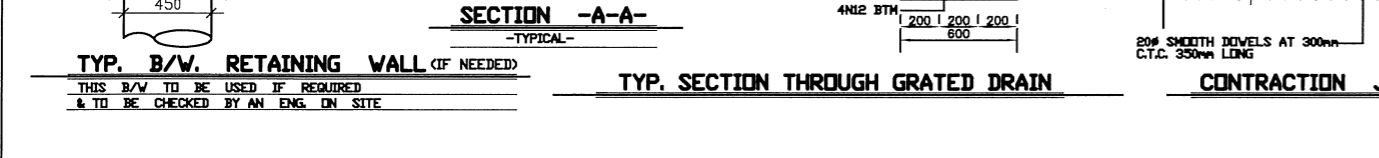
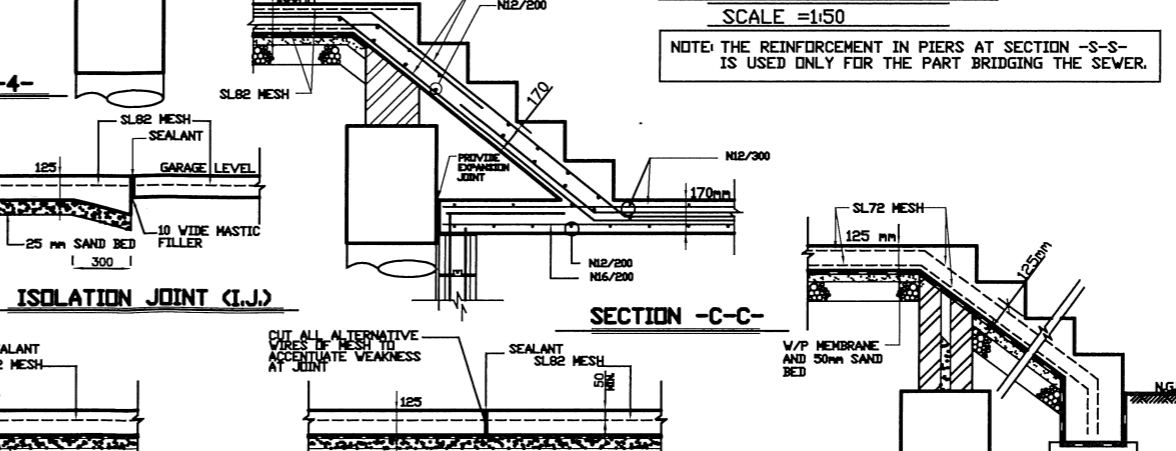
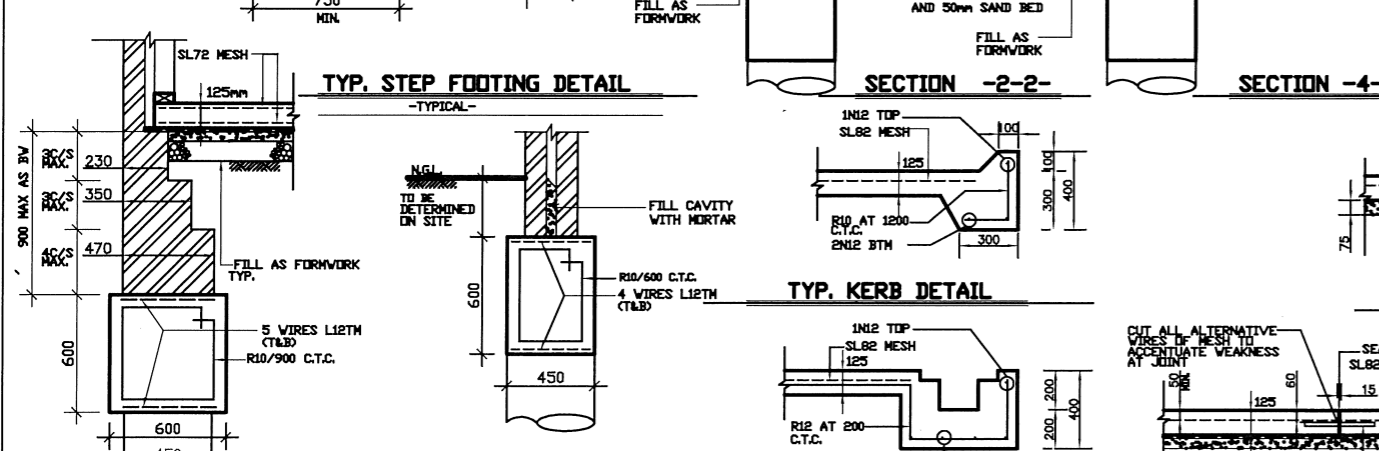
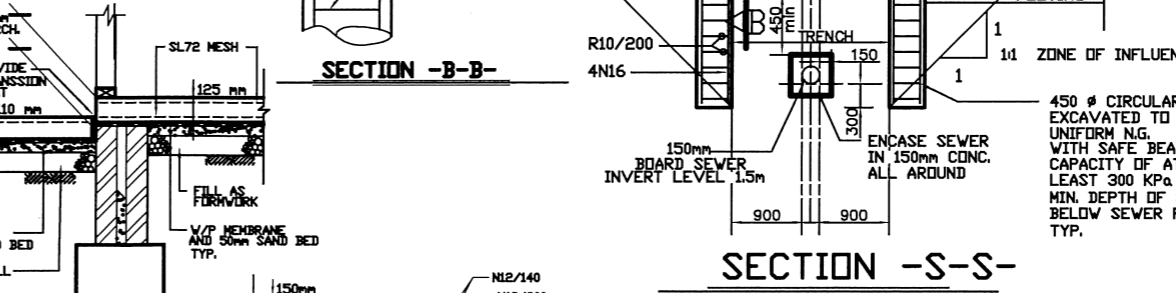
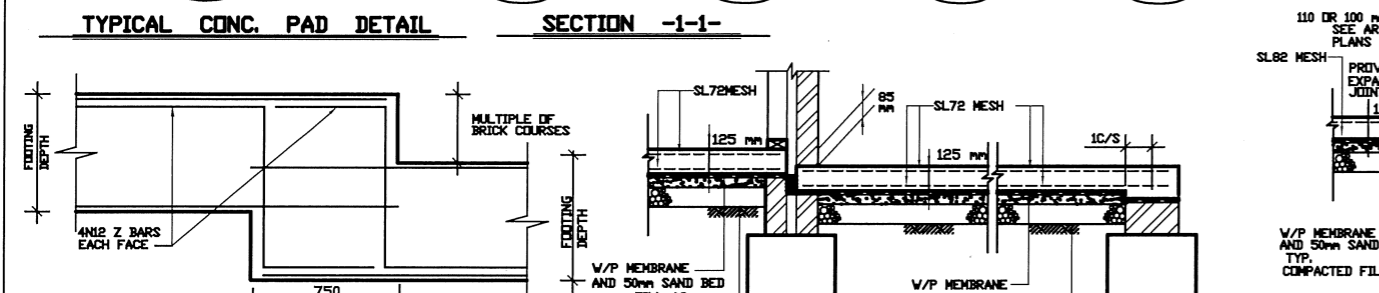
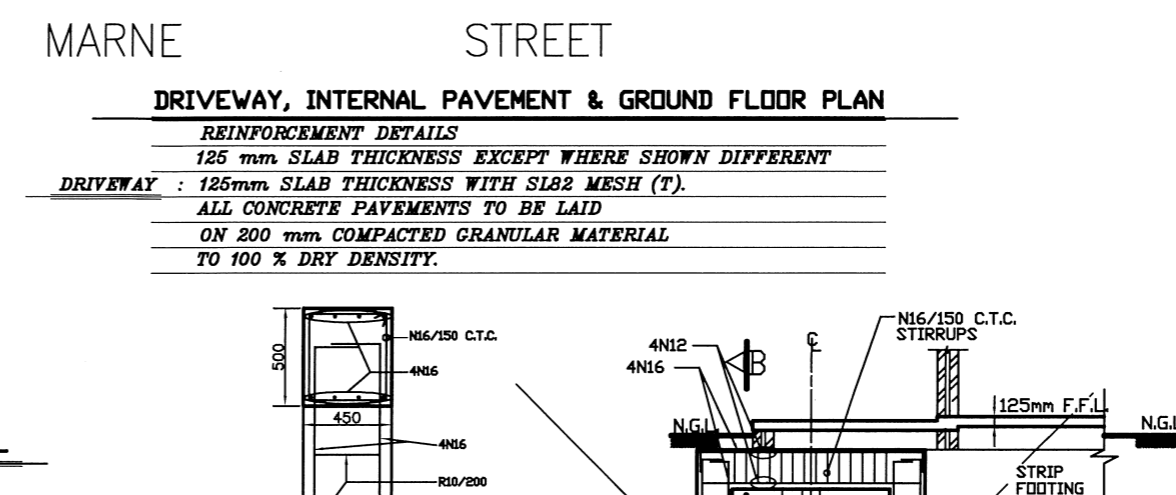
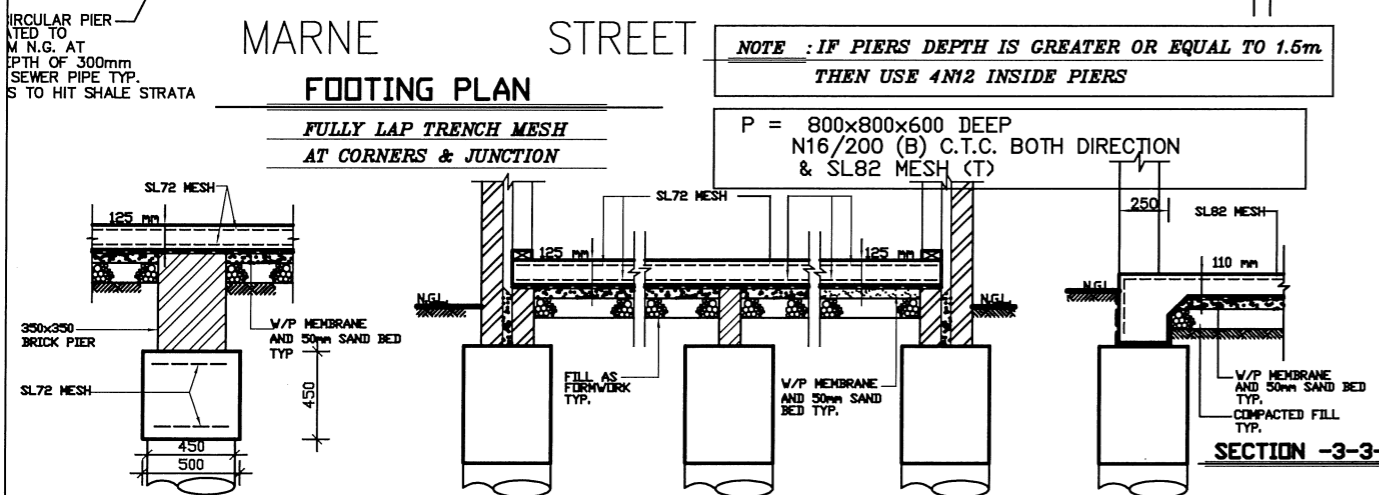
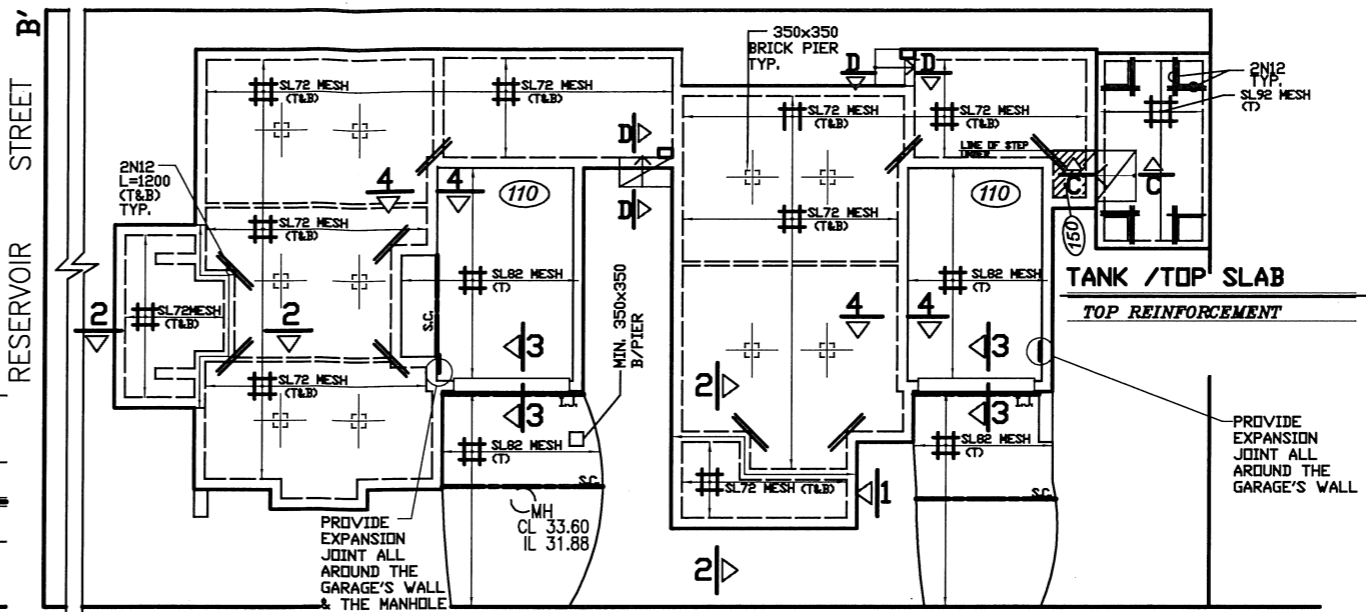
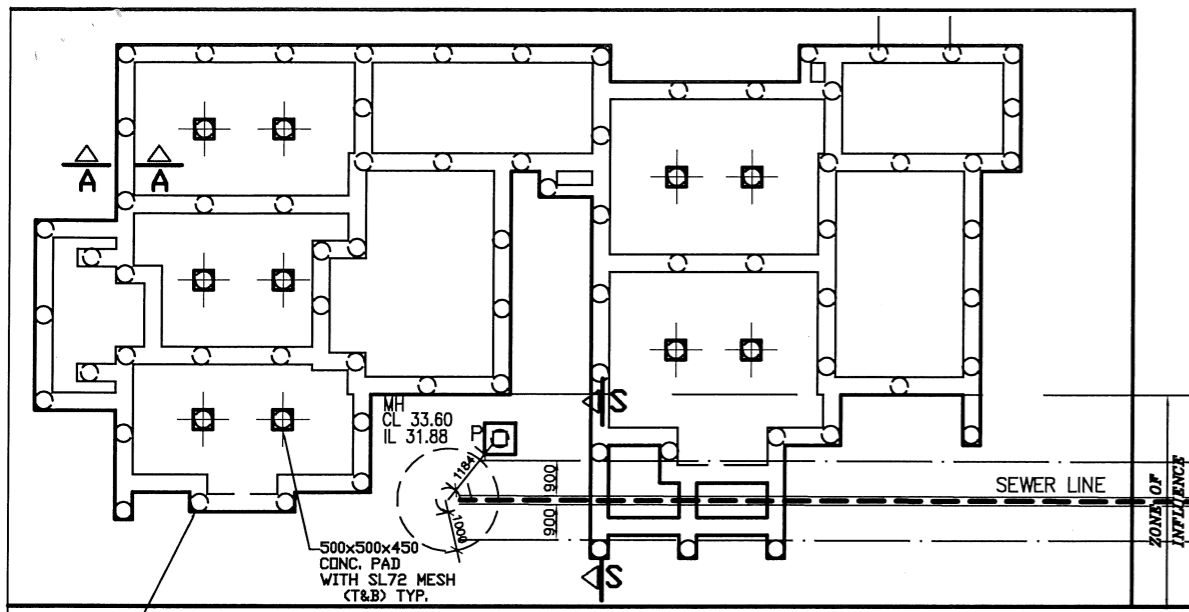
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ISSUE	AMENDMENT	DATE	CHECKED



ISSUED BY THIS OFFICE, ALL REINFORCEMENT/ STRUCTURAL ITEMS SHALL BE INSPECTED BY THIS OFFICE PRIOR TO PLACING CONCRETE.

02 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER INSTRUMENTS OF SERVICE AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK.

03 DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS. SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE SURVEYOR.

04 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.

05 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAA CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY.

06 ANY CONFLICT BETWEEN THESE NOTES, THE SPECIFICATIONS OR THE DRAWINGS SHALL BE RESOLVED BY THE ENGINEER.

07 SLAB & FOOTING DESIGN HAS BEEN BASED ON PRINCIPLES AS SET OUT IN AS 8700 - 1996/RECOMMENDED SLABS & FOOTINGS

08 THE STRUCTURAL ELEMENTS SHALL BE CONSTRUCTED ON 80 kPa - KEYS

09 DESIGN HAS BEEN BASED ON SUPERIMPOSED LIVE LOADS AS FOLLOWS:
30 kPa - OFFICES & COMPARS ; 2 kPa - ELSEWHERE

FOUNDATIONS

F1 FOUNDATIONS HAVE BEEN DESIGNED FOR A UNIFORM ALLOWABLE INTENSITY OF BEARING PRESSURE 80 kPa

F2 FOUNDATION MATERIAL SHALL BE APPROVED BY THE ENGINEER FOR THIS PRESSURE BEFORE PLACING REINFORCEMENT OR CONCRETE.

F3 ALL EXCAVATIONS SHALL BE FINISHED CLEAN AND HORIZONTAL.

CONCRETE

C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS.

C2 CONCRETE QUALITY.

ELEMENT	F _{cd} (days)	SLUMP	MAX SIZE AGG.	ADJUSTURE
PIERS & FOOTINGS	28	80mm	20mm	NIL
G. SLAB	28	80mm	20mm	NIL
2.SLAB	28	80mm	20mm	NIL
BEAMS	28	80mm	20mm	NIL
COLUMNS	28	80mm	20mm	NIL

ELEMENT	CAST AGAINST FORMS		CAST AGAINST OTHER FORMWORK OR THE GROUND
	IN SHELTERED LOCATIONS	EXPOSED TO WEATHER	
COLUMN & PERICENTALS	40	30	70
BEAMS	35	40	65
SLAB & WALLS	30	40	65

C4 ALL CONCRETE PLACES SHALL BE WELL VIBRATED AND COMPACTED USING AN APPROVED VIBRATOR AND TECHNIQUE.

C5 SIZES OF CONCRETE ELEMENTS DO NOT EXCEED THICKNESS OF APPLIED FINISHES.

C6 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE IN ACCORDANCE WITH THE APPROVAL OF THE ENGINEER.

C7 NO HOLE OR CHASE OTHER THAN THOSE SHOWN SHALL BE MADE IN CONCRETE ELEMENTS WITHOUT THE APPROVAL OF THE ENGINEER.

C8 REINFORCEMENT IS REPRESENTED DIAGMATICALLY IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.

C9 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN. THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPLICE IN ACCORDANCE WITH THE REQUIREMENTS (AS 3600)

C10 WELDING OF REINFORCEMENT WILL BE PERMITTED ONLY AFTER THE WRITTEN APPROVAL OF THE ENGINEER.

C11 REINFORCEMENT SYMBOLS

GRADE OF REINFORCEMENT	YIELD STRENGTH (σ _y) MPa
TYPE	CORR
PLAIN BARS	250
DEFORMED BARS	250
PLAIN & DEFORMED	250
HARD DRAWN WIRE	350
WELDED WIRE MESH	500

C12 ALL REINFORCEMENT BARS & FABRIC SHALL BE TO AS 4671

C13 THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS BEFORE REINFORCEMENT IS COMPLETED. THE CONTRACTOR SHALL ALLOW, AFTER THE COMPLETION OF THE REINFORCEMENT, TWO HOURS FOR THE ENGINEER'S INSPECTION.

C14 CONCRETE SHALL NOT BE ORDERED UNTIL REINFORCEMENT IS APPROVED BY THE ENGINEER.

C15 THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS BEFORE POURING OF CONCRETE.

C16 CONCRETE CURING AND STOPPING TO BE IN ACCORDANCE WITH THE RELEVANT SAA CODES. CONCRETE TO BE CURED A MINIMUM OF 7 DAYS AFTER POURING.

C17 FORMWORK TO BEARS AND SLABS SPANNING GREATER THAN 5m SHALL BE PRECAUTIONED UPWARDS BY 1.00m OF CLEAR SPAN IN EACH SPAN UNLESS NOTED OTHERWISE.

C18 CONCRETE CURING AND STOPPING TO BE IN ACCORDANCE WITH THE RELEVANT SAA CODES.

C19 ALL UNSUPPORTED BARS SHALL BE TIED IN TRANSVERSE DIRECTION USING #2 BARS AT 400 C.T.C.

C20 MINIMUM LAP TO FABRIC TO CONSIST OF TWO CROSSVIBES PLUS 20mm AND EXTEND TRENCH MESH-600mm MINIMUM LAP UNLESS NOTED OTHERWISE.

BRICKWORK (OR BLOCKWORK)

21 ALL BRICKWORK SHALL BE TO AS 4571

22 ALL BRICKWORK SHALL BE SET IN ALL LEAN-BEARING MASONRY WALLS USING TWO LAYERS OF GALVANIZED FLAT STEEL WITH GRAPHIC GREASE SANDWICHED BETWEEN WALLS

23 IF SHOWN ON STRUCTURAL DRAWINGS ARE LOAD BEARING WALLS/LOAD BEARING WALLS SHALL BE SEPARATED FROM THE SLAB IN AN APPROVED MANNER.

24 NO BRICKWORK WHICH IS SUPPORTED BY THE SLAB SHALL BE ERECTED UNTIL FORMWORK HAS BEEN REMOVED.

25 BRICKWORK TO BE 1:3 PROPORTIONS BY VOLUME CEMENT, LIME AND SAND.

26 BRICK STRENGTH FOR LOAD BEARING BRICKWORK TO BE A MINIMUM OF 40MPa.

27 BLOCKWORK QUALITY

28 BLOCKWORK STRENGTH-TEMP.

29 BLOCKWORK QUALITY

30 F_{cd} 28days > 80kPa

31 SLUMP > 80mm

32 MAX. SIZE AGG 20mm

33 PROVIDE EXPANSION JOINT IN BRICKWORK AS PER (AS 2760)

STRUCTURAL STEELWORK

34 ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH AS 4100, AS 1594 AND FOR TUBULAR MEMBERS, AS 1569

35 ALL STEELWORK SHALL BE GRADE 250 UNLESS NOTED OTHERWISE COLD FORMED LIGHT GAUGE SECTIONS SHALL BE GRADE 400.

36 WELDS SHALL COMPLY WITH AS 1554.

37 WELDS SHALL BE 6mm CONTIGUOUS FILLET UNLESS NOTED OTHERWISE WELDS TO PURLIN CLEATS SHALL BE 4mm GFL.

38 ELECTRODES SHALL BE EX60 OR E7008.

39 BOLTING

40 BOLTS SHALL BE MIN 4.6S UNLESS NOTED OTHERWISE.

41 BOLTS SHALL BE CONNECTED WITH 8 BOLTS UNLESS NOTED OTHERWISE.

42 BOLTING PROCEDURES SHALL BE AS FOLLOWS:

BOLTING PROCEDURE	BOLT NAME	AUSTRALIAN STANDARD	INSTALLATION
4.6/5	COMMERCIAL	AS3558	SNUG TIGHTENED
8.8/5	HIGH STRENGTH	AS3558	SNUG TIGHTENED
8.8/7	HIGH STRENGTH	AS3558	TENSIONED FRICITION
8.8/8	HIGH STRENGTH	AS3558	TENSIONED BEARING

43 APPROVED LOAD-BEARING WASHERS SHALL BE USED UNDER THE BOLT HEAD OF 8.8/7 AND 8.8/8 BOLTS.

44 ALL UNDRY PREPARATION POWER WIRE BRUSH TO AS 5876 CLASS 3

45 ALL UNDRY

46 CONCRETE ENCASED STEELWORK TO BE WRAPPED IN ACCORDANCE WITH AS 2599 AND TO HAVE 50mm MINIMUM COVER TO CONCRETE.

47 LOCATION OF PILES AND CURTS TO BE OBTAINED FROM ARCHITECTS DRAWINGS OR RECORDING CONTRACTOR.

48 PROVIDE SEAL PLATES TO ENDS OF HOLLOW SECTIONS.

49 ALL STRUCTURAL STEELWORK WHICH IS EXPOSED OR IN CONTACT WITH EXPOSED BRICKWORK OR BLOCKWORK AND ALL LINTELS SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.

50 ALL STEEL WORK IS TO BE TEMPORARILY BUT SECURELY BRACED UNTIL ALL FINAL BRACING CLADDING AND STABILIZING BRICKWORK OR BLOCKWORK HAVE BEEN COMPLETED.

51 THREE COPIES OF ALL SHEP DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL OF STRUCTURAL SUFFICIENCY BEFORE FABRICATION.

STRUCTURAL TIMBER

52 CONSTRUCTION TO BE IN ACCORDANCE WITH AS 1720 LIGHT TIMBER FRAMING CODE AS 1684, AND CURRENT AMENDMENTS.

53 ALL EXPOSED TIMBER SHALL BE TREATED APPROPRIATELY TO SUIT ITS ENVIRONMENT AND APPROVED BY THE ENGINEER.

54 TIMBER STUDS GRABES TO BE F7 UNLESS NOTED OTHERWISE.

55 PROVIDE SEPARATE SETS AND/OR DIMENSIONS AND UNDER WALLS ABOVE UNDRY.

ISSUE	AMENDMENT	DATE	CHECKED