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1. GENERAL:

1.1 THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS, THE SPECIFICATIONS AND THE ENGINEER'S FOOTING CONSTRUCTION REPORT/STRUCTURAL DOCUMENTATION, ETC.

1.2 ALL DIMENSIONS AND LEVELS SHALL BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS AND/OR CHECKED ON SITE.

1.3 ENGINEER'S DRAWINGS MUST NOT BE SCALED.

1.4 THE BUILDER AND/OR AGENT SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF ALL STRUCTURES AND ANY ELEMENTS UNTIL THEIR COMPLETION AND SHALL ENSURE THAT NO PART OF STRUCTURES OR ANY ELEMENTS ARE OVERSTRESSED BY EXCESSIVE LOADING.

1.5 THE SPECIFICATIONS BELOW SHALL APPLY UNLESS NOTED OTHERWISE.

1.6 REQUEST FOR INFORMATION WILL GENERALLY BE RESPONDED BY THE ENGINEER WITHIN 5 WORKING DAYS, WHILST REVIEWS OF THE SHOP DRAWINGS GENERALLY WITHIN 10 WORKING DAYS.

2. CONCRETE:

2.1 CONCRETE CONSTRUCTION TO COMPLY WITH AS3600.

2.2 CONCRETE SHALL BE AS FOLLOWS:

ELEMENT	GRADE (MPa)
STRIPS, PADS & BORED PIERS	32
SLAB ON GROUND SUSPENDED SLAB & BEAMS	32
WALL PANELS COLUMNS	40

CONCRETE TO HAVE NOMINAL 100mm SLUMP U.N.O
FOR SITES WITHIN 1KM OF THE SHORE LINE OF LARGE EXPANSES OF SALTWATER, HEAVY INDUSTRIAL AREAS OR HIGH SULPHATE SOILS WHERE SURFACES (egVERANDAHS, BALCONIES, CARPORTS) ARE EXPOSED, THE SURFACE SHALL BE PROTECTED WITH SUITABLE TOPPING, SEALER, TILES (etc) OR THE CONCRETE GRADE SHALL BE NOT LESS THAN N40.

2.3 CONSTRUCTION JOINTS ARE TO BE THOROUGHLY SCABBLED OF ALL LAITANCE AND POORLY COMPACTED MATERIAL. VERTICAL JOINTS TO BE POURED AGAINST SHUTTERING.

2.4 ALL CONCRETE TO BE PROPERLY CURED BY KEEPING ALL EXPOSED SURFACES IN A MOIST, DAMP CONDITION FOR AT LEAST THE FIRST 7 DAYS AFTER PLACING OR BY SPRAYING WITH AN APPROVED CURING COMPOUND, SUBJECT TO COMPATABILITY WITH PROPOSED SURFACE FINISHES.

2.5 MINIMUM STRIPPING TIMES:

- SLAB-SOFFIT 14 DAYS, PROPS 21 DAYS
- BEAMS-SIDES 3 DAYS, SOFFIT 21 DAYS
- COLUMNS AND WALLS - (UNLOADED) 3 DAYS

2.6 REINFORCEMENT DESIGNATIONS ARE AS FOLLOWS:

R - PLAIN ROUND STRUCTURAL BAR TO AS/NZS 4671
F - HARD DRAWN WIRE FABRIC TO AS/NZS 4671
W - HARD DRAWN WIRE BAR TO AS/NZS 4671
N - HOT ROLLED DEFORMED BAR TO AS/NZS 4671
SL - SQUARE RIBBED FABRIC TO AS/NZS 4671
RL- RECTANGULAR RIBBED FABRIC TO AS/NZS 4671

2.7 PROVIDE 0.2mm HIGH IMPACT RESISTANCE BRANDED POLYETHYLENE MEMBRANE TO AS 2870 THROUGHOUT UNDERSIDE OF FLOOR SLABS ON GROUND, ALL LAPS TO BE 300mm AND SEALED WITH A 50mm WIDE STRIP OF PRESSURE-SENSITIVE WATERPROOF TAPE.

2.8 ALL FILLING TO BE NON-CLAY MATERIAL COMPACTED IN 200mm LAYERS TO 98% MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH AS1289 ES.1.1 STANDARD (1993).

2.9 WHERE ROD REINFORCEMENT IS SPLICED, THE MINIMUM LAP LENGTH SHALL BE:
N12-500 LAP, N16-750 LAP, N20-1000 LAP, N24-1450 LAP, N28-1800 LAP, N32-2150 LAP, N36-2600 LAP.

2.10 LAPS TO SLAB MESH TO BE ONE (1) FULL MESH PANEL PLUS 25mm.

2.11 CLEAR CONCRETE COVER TO REINFORCEMENT (INCLUDING FITMENTS AND WIRE TIES) SHALL BE:
SLAB ON FILL - 30mm BOTTOM AND SIDES, 20mm TOP.
FOOTINGS PROTECTED BY VAPOUR BARRIER - 40mm BOTTOM AND SIDES, 20mm TOP.
RESIDENTIAL FOOTINGS UNPROTECTED BY VAPOUR BARRIER - 40mm TOP, 50mm BOTTOM AND SIDES
NON-RESIDENTIAL FOOTINGS UNPROTECTED BY VAPOUR BARRIER - 50mm TOP, BOTTOM AND SIDES
SUSPENDED SLABS, BEAMS AND COLUMNS - 20mm INTERNAL, 40mm EXTERNAL.

2.12 CONCRETE TO BE KEPT FREE OF LOAD BEARING BRICKWORK BY TWO (2) LAYERS OF SUITABLE MEMBRANE.

2.13 BRICKWORK MUST NOT BE BUILT ON CONCRETE SLABS OR BEAMS UNTIL FORMWORK AND PROPS SUPPORTING SAME HAVE BEEN REMOVED.

2.14 TENSION CRACKS MAY OCCUR IN SLABS; APPLY SUITABLE SEALANT FOR EXPOSED SURFACES.

2.15 PROVIDE 10mm ISOLATION JOINTS WHERE CONCRETE IS ADJACENT STEELWORK/MASONRY.
PROVIDE SUITABLE FILLER AND SEALANT.

3. MASONRY:

3.1 CONSTRUCTION TO COMPLY WITH AS3700.

3.2 MINIMUM CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH OF UNITS TO BE AS FOLLOWS:

CLAY BRICKS 40MPa
CONCRETE BRICKS 10MPa
CONCRETE HOLLOW BLOCKS 15MPa

3.3 MORTAR: BRICKWORK 1 : 0.25 : 3 (CEMENT : LIME : SAND)
BLOCKWORK 1 : 0.5 : 4.5

3.4 INFILL CONCRETE GROUT TO REINFORCED MASONRY TO BE GRADE 20, SLUMP 230 +/- 30, 10mm AGGREGATE.

3.5 FOR HOLLOW BLOCK RETAINING WALLS, ALL CORES ARE TO BE GROUTED.

3.6 GROUTING TO REINFORCED MASONRY SHALL BE COMPACTED BY RODDING WITH A PLAIN ROUND BAR. ALL AIR POCKETS AND BUBBLES MUST BE DISPLACED DURING COMPACTION. HOWEVER, CARE MUST BE TAKEN TO AVOID DAMAGING OR DISLODGING THE MASONRY OR REINFORCEMENT WHILE COMPACTING THE GROUT.

4. STEELWORK:

4.1 ALL TO COMPLY WITH AS 4100, AS/NZS 1538, AND AS 2327.

4.2 ALL WELDING TO COMPLY WITH AS 1554, PARTS 1, 2 AND 3.

4.3 ALL FILLET WELDS TO BE 6mm (CATEGORY SP) EXTENDING THE FULL LENGTH OF THE EDGES IN CONTACT, EXCEPT WHERE PLATE THICKNESSES ARE LESS THAN 6mm, USE A WELD SIZE TO MATCH.

4.4 THE STEELWORKER SHALL SUPPLY ALL HD BOLTS, NUTS AND ALL OTHER BOLTS AND WASHERS REQUIRED FOR THE ERECTION OF THE STEELWORK, HOLES FOR HD BOLTS TO BE 3mm OVERSIZE, HOLES FOR OTHER BOLTS TO BE NO MORE THAN 2mm OVERSIZE.

4.5 ALL BOLTING SHALL COMPLY WITH AS 4100 AND BE GRADE 8.8/S UNO.

4.6 ALL BASE PLATES, HD BOLTS AND COLUMNS IN CONCRETE WHICH IS IN CONTACT WITH GROUND TO HAVE CONCRETE COVER OF 75mm MINIMUM.

4.7 MINIMUM EDGE DISTANCE (TAKEN FROM CENTRE OF FASTENER) SHALL BE:
SHEARED OR HAND FLAME CUT EDGE - 1.75D
ROLLED PLATE, MACHINE FLAME CUT SAWN OR PLANED EDGE - 150D
ROLLED EDGE OF A ROLLED SECTION - 12SD
(WHERE 'D' IS THE NOMINAL DIAMETER OF THE FASTENER).

4.8 STEELWORK TO BE CONCRETE ENCASED MUST FIRST BE WRAPPED WITH F41 MESH. THE REINFORCEMENT IS TO BE PLACED 25mm FROM THE STEELWORK.

4.9 PROVIDE A 10mm CLEARANCE BETWEEN VERTICAL FACES OF STEELWORK AND ADJACENT MASONRY WALLS. PROVIDE PURPOSE MADE W6 OR SIMILAR APPROVED TIES BETWEEN STEELWORK AND MASONRY AT 600 C/C (MAXIMUM).

4.10 ALL STEELWORK TO BE ADEQUATELY PROPPED AND BRACED DURING CONSTRUCTION UNTIL ALL PERMANENT BRACING, MASONRY AND CLADDING HAS BEEN ERECTED.

4.11 ALL COLD FORMED SECTIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. TRIMMING MEMBERS THE SAME SIZE AS THE ADJOINING MEMBERS SHALL BE PROVIDED TO SUPPORT EDGES OF SHEETING ALONG UNSUPPORTED EDGES SUCH AS HIPs, VALLEYS AND ROOF/WALL PENETRATIONS.

4.12 STEELWORK PROTECTIVE COATINGS TO BE:

- EXPOSED EXTERNAL STEELWORK WITHIN 1 km OF BREAKING SURF OR WITHIN 100m OF SALT WATER NOT SUBJECT TO BREAKING SURF OR HEAVY INDUSTRIAL AREAS : HOT-DIP GALVANIZED, AND PAINTED WITH AN APPROVED PAINTING SYSTEM TO AS/NZS 2312.
- EXPOSED EXTERNAL STEELWORK (NOT EXPOSED TO CORROSIVE ENVIRONMENT) : HOT-DIP GALVANIZED, 'DIMET' TREATED OR ONE COAT SPRAYED INORGANIC ZINC SILICATE PAINT OVER CLASS 2.5 ABRASIVE BLAST SURFACE.
- STEELWORK ACTING AS DOWNPIPE OR GUTTER : HOT-DIP GALVANIZED.
- INTERNAL STEELWORK (NOT EXPOSED TO MOISTURE OR CORROSIVE ENVIRONMENT): RED OXIDE ZINC CHROMATE PRIMER (ROZC) OVER WIRE BRUSH SURFACE.
- STEELWORK IN CONTACT WITH GROUND (e.g. RETAINING WALLS) : 2 COATS OF APPROVED QUALITY BITUMINOUS PAINT, TAR, EPOXY OR SIMILAR.
- NOTE: ALL STEELWORK IN CONTACT WITH THE GROUND, PAVING OR SOIL ETC SHALL IN ADDITION TO THE PROTECTION REQUIRED ABOVE BE EITHER WRAPPED IN 'DENSO' TAPE OR CONCRETE ENCASED WITH A MINIMUM OF 75mm THICK CONCRETE.

4.13 TWO (2) COPIES OF THE SHOP DETAIL DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEER AND REVIEW OF THE SAME OBTAINED BEFORE COMMENCING FABRICATION. REVIEW WILL NOT COVER DIMENSIONS. SHOP DRAWINGS WILL GENERALLY BE REVIEWED BY THE ENGINEER WITHIN 10 WORKING DAYS.

5. TIMBER NOTES:

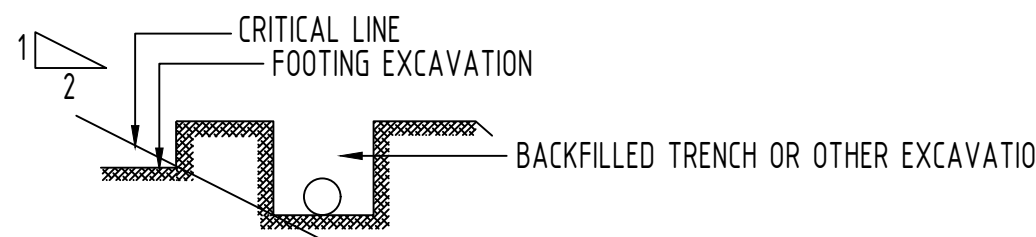
5.1 ALL TO COMPLY WITH AS 1720 AND AS 1684.

5.2 ALL MGp10 GRADE TIMBER MUST EXCLUDE "HEART IN" MATERIAL TO GIVE THE TIMBER A MINIMUM JOINT GROUP STRENGTH OF JD4 IN ACCORDANCE WITH AS 1720.

6. EARTHWORKS:

6.1 ALL TO COMPLY WITH AS 3798 GUIDELINES

6.2 UNLESS OTHERWISE APPROVED BY THE ENGINEER THE LIMITATIONS OF EXCAVATIONS NEAR FOOTINGS SHALL BE AS FOLLOWS:



7. SITE INSPECTIONS:

7.1 MUST BE CARRIED OUT AT THE FOLLOWING STAGES.

- AFTER SITE PREPARATION AND TRENCHING FOR THE FOOTING BEAMS
- AFTER THE PREPARATION OF REINFORCEMENT, PRIOR TO THE PLACEMENT OF ANY CONCRETE.
- AT THE CONCRETE POUR.
- AFTER COMPLETION OF THE MASONRY, PRIOR TO CONSTRUCTION OF THE ROOF TO ENSURE CORRECT PLACEMENT OF CONTROL JOINTS.
- UPON COMPLETION OF THE INSTALLATION OF PAVING, STORMWATER DRAINS, PIPES AND STRUCTURES.

8. SURFACE PROTECTIVE COATINGS:

ALL STRUCTURAL MEMBERS AND SURFACES,IE: BEAMS,COLUMNS,WALLS,FLOORS,CEILINGS,ROOFS AND THE LIKE BOTH INTERNALLY AND EXTERNALLY SHALL BE COATED WITH AN APPROVED PROTECTIVE COATING TO SUIT THEIR INTENDED USE/EXPOSURE ENVIRONMENT, WHICH IS TO BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.

9. TERMITE PROTECTION:

TERMITE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH AS 3660.1

10. RETAINING WALL CONSTRUCTION:

10.1 GENERAL

- THE DESIGNS ARE FOR A SPECIFIC JOB AND/OR SITE AND ARE BASED ON THE INFORMATION PROVIDED REGARDING THE PARTICULAR SUPPORT CONDITIONS WHICH OCCUR ON THE SITE AND THEY SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT PRIOR WRITTEN APPROVAL FROM THIS OFFICE.
- ALL DIMENSIONS AND DETAILS MUST BE CHECKED BY THE BUILDER/CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY SITE WORKS OR CONSTRUCTION.

UNLESS SPECIFICALLY NOTED, THE WALLS ARE DESIGNED ON THE BASIS THAT NO BUILDINGS OR OTHER STRUCTURES ARE BUILT, OR WILL BE BUILT, WITHIN A DISTANCE FROM THE BACK OF THE WALL EQUAL TO THE HEIGHT OF THE WALL. SPECIFIC DESIGNS MUST BE PREPARED IN THE EVENT THAT ANY SUCH BUILDINGS EXIST OR ARE PROPOSED.

SIMILARLY, THE DESIGN IS BASED ON THERE BEING NO EXCAVATIONS IN FRONT OF THE FOOTING, EXISTING OR PROPOSED, WHICH ARE DEEPER THAN HALF THE DISTANCE FROM THE FRONT OF THE FOOTING.

- EXTREME CARE MUST BE TAKEN IN THE EVENT THAT ANY EXCAVATION IS CARRIED OUT IN FRONT OF THE WALL, INCLUDING TRENCHES FOR SERVICES. TEMPORARY PROPPING OF THE WALL MAY BE REQUIRED IN SUCH A CASE, AND ANY EXCAVATIONS MUST HAVE PROPERLY COMPACTED BACKFILL.

10.2 SOIL CONDITIONS

- UNLESS SOIL TESTS HAVE BEEN CARRIED OUT TO ASSESS THE SOIL TYPE, THE DESIGN IS BASED ON LOCAL KNOWLEDGE OF THE SOIL. IN THIS CASE IT REMAINS THE BUILDER/CONTRACTOR'S RESPONSIBILITY TO CHECK THAT THE ACTUAL SOIL TYPE IS CONSISTENT WITH THE DESIGN. IT IS RECOMMENDED THAT SOIL TESTING BE CARRIED OUT BY THIS OFFICE FOR ALL WALLS.

10.3 CONSTRUCTION

- PROPPING DURING CONSTRUCTION
CONCRETE/GROUT INFILLED MASONRY RETAINING WALLS ARE TO BE ADEQUATELY PROPPED AND/OR TIED DURING POURING OF CONCRETE TO PREVENT BURSTING OF THE BRICKWORK OR BLOCKWORK.
THE CONCRETE FOR THE WALL STRUCTURE SHOULD BE POURED IN STAGES OR LIFTS OF APPROXIMATELY 1.0M IN HEIGHT. A PERIOD OF APPROXIMATELY FOUR HOURS SHOULD ELAPSE BETWEEN THE POURING OF SUCCESSIVE LIFTS TO ALLOW PREVIOUSLY POURED CONCRETE TO SET ADEQUATELY.
- CONTROL JOINTS
10MM WIDE CONTROL JOINTS IN MASONRY RETAINING WALLS ARE TO BE PROVIDED AT 12M MAXIMUM C/C AND AT ALL JUNCTIONS. CONTROL JOINTS SHALL BE CONSTRUCTED ACROSS THE FULL WIDTH OF THE WALL AND TIED WITH MASONRY FLEXIBLE ANCHORS AT 600 C/C VERTICALLY (OR 1 W6 ROD 500 LONG, GREASED AT ONE END).

10.4 MATERIALS

- CONCRETE: FOOTINGS; GRADE N20
WALLS; GRADE N25
INFILL GROUT TO MASONRY; GRADE 12, SLUMP 230 + 30, 10MM AGGREGATE.

TIMBER: F11 HARDWOOD, OR TREATED SOFTWOOD, COMPLYING WITH DURABILITY CLASS 1 REQUIREMENTS.

STEEL: GRADE 300+. CORROSION PROTECTION SHALL BE AS NOMINATED.

MASONRY
MINIMUM CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH:
CLAY BRICKS 40 MPa
CONCRETE BLOCKS 12 MPa
MORTAR:
BRICKWORK 1 : 1/4 : 3 (CEMENT:LIME:SAND)
BLOCKWORK 1 : 0 : 3 (CEMENT:LIME:SAND)

10.5 WATERPROOFING / DRAINAGE REQUIREMENTS
WATERPROOFING IS TO BE PROVIDED AS SPECIFIED AND USED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. ALTERNATIVE PRODUCTS OR SYSTEMS MAY BE USED SUBJECT TO APPROVAL.

10.5.1 RETAINING WALLS IN HABITABLE AREAS
(OR AREAS WHERE WATERPROOFING IS REQUIRED, EG. CELLARS)
PROVIDE AN AGRICULTURAL PIPE AT APPROXIMATELY 200MM BELOW LOWEST FLOOR LEVEL, EXCEPT WHERE THIS LEVEL DOES NOT ALLOW THE DISCHARGE OF THE DRAIN ON THE SITE LOCATE THE PIPE AT THE LOWEST LEVEL POSSIBLE BEHIND THE WALL. PROVIDE A SUMP AND PUMP TO DISCHARGE WATER IF IT CANNOT BE DISCHARGED VIA GRAVITY.

- FORMED CONCRETE WALLS:
PROVIDE 'MICROPOZ' CONCRETE ADDITIVE AND PURPOSE MADE WATERSTOP AT CONSTRUCTION JOINTS.
OR
'POLYTANK' WATERPROOFING SYSTEM (AND WATERSTOP IF GROUND WATER IS EXPECTED TO BE A PROBLEM).
- SPRAYED (SHOTCRETE) CONCRETE WALL AND FLOOR (IE. NO CONSTRUCTION JOINTS):
PROVIDE 'MICROPOZ' CONCRETE ADDITIVE.
- OTHER WALL TYPES:
PROVIDE 'POLYTANK' (AND WATERSTOP IF GROUND WATER IS EXPECTED TO BE A PROBLEM.)
INTERNAL SLAB STEPDOWN GREATER THAN 600MM HIGH AND LESS THAN 1500MM:
PROVIDE 2 LAYERS OF VAPOUR BARRIER.

10.5.2 RETAINING WALLS EXTERNAL TO BUILDING (OR WHERE WATERPROOFING IS NOT REQUIRED)

- REINFORCED CONCRETE OR MASONRY RETAINING WALLS.
HEEL TYPE OR PART HEEL/TOE TYPE:
PROVIDE AN AGRICULTURAL PIPE.
TOE TYPE ON BOUNDARY:
PROVIDE 'CORDRAIN' AND 'STRIP DRAIN'
OR
'STRIP DRAIN' AND WEEP HOLES
TOE TYPE NOT ON BOUNDARY:
PROVIDE AN AGRICULTURAL PIPE OR WEEP HOLES.
- CRIB OR SLEEPER RETAINING WALL:
PROVIDE AN AGRICULTURAL PIPE AT THE LOWEST POINT OF THE WALL (OR TOP OF FOOTING).

10.6 BACKFILLING METHOD

- BACK-FILL SHALL NOT BE PLACED AGAINST RETAINING WALLS UNTIL SEVEN DAYS AFTER THE POURING OF THE CONCRETE FOR WALL STRUCTURE UNLESS ADEQUATELY PROPPED ON OTHER SIDE, EXCEPT AS NOTED BELOW.
- BACK-FILL SHALL NOT BE PLACED AGAINST RETAINING WALLS WHICH ARE DESIGNED TO BE SUPPORTED AT THE TOP BY BEING TIED INTO EITHER SUSPENDED SLABS OR GROUND SLABS UNTIL SEVEN DAYS AFTER THE POURING OF CONCRETE FOR SLABS - UNLESS THE WALL IS PROPPED IN A MANNER WHICH WILL PROVIDE A RESTRAINT TO THE WALL EQUIVALENT TO THE SUPPORT OFFERED BY THE SLAB.

10.7 GROUTING OF MASONRY WALLS

- CAVITIES/CORES TO BE THOROUGHLY CLEANED PRIOR TO POURING. PROVIDE TEMPORARY CLEAN OUT HOLES AT THE BASE OF EACH POUR AS REQUIRED.
- FOR HOLLOW BLOCK WALLS, ALL CORES ARE TO BE GROUTED, IE. INCLUDING CORES WITHOUT REINFORCEMENT.
- GROUT SHALL BE COMPACTED BY RODDING WITH A PLAIN ROUND BAR. ALL AIR POCKETS AND BUBBLES MUST BE DISPLACED DURING COMPACTION. HOWEVER, CARE MUST BE TAKEN TO AVOID DAMAGING OR DISLODGING THE MASONRY OR REINFORCEMENT WHILE COMPACTING THE GROUT.

10.8 BACKFILLING AND DRAINAGE AND DETAILS

- BACKFILL MATERIAL IS TO BE GRANULAR, AND COMPACTED IN LAYERS NOT MORE THAN 200MM DEEP. THE DEGREE AND METHOD OF COMPACTION SHALL BE AS THOROUGH AS POSSIBLE BUT WILL DEPEND ON THE PROPOSED USE OF THE BACKFILLED AREA.
- THE DRAINAGE SYSTEM BEHIND THE WALL SHALL NOT BE CONNECTED TO THE MAIN DRAINAGE SYSTEM.
- WHERE AN AGRICULTURAL PIPE IS SPECIFIED, PROVIDE A FINE GRAINED SAND - CLAY MIXTURE BEDDING OR LEAN-MIX CONCRETE BASE SUCH THAT THE PIPE FALL IS NOT LESS THAN 1 IN 100. THE INITIAL 400MM OF FILL ABOVE THE PIPE IS TO BE 16MM SCREENINGS, HAND PLACED CAREFULLY.
- WHERE WEEPHOLES HAVE BEEN SPECIFIED, PROVIDE APPROXIMATELY 20 LITRES BY VOLUME OF 16MM SCREENINGS BEHIND THE WALL, AT EACH LOCATION, EXCEPT WHERE THE WALL IS ON THE BOUNDARY. THIS IS TO BE PLACED AS THE FILL IS BUILT UP. UNLESS AN ALTERNATIVE DRAINAGE SYSTEM HAS BEEN PROVIDED, AN OPEN GUTTER MUST BE CONSTRUCTED IMMEDIATELY IN FRONT OF THE WALL AND CONNECTED TO THE DRAINAGE SYSTEM.

11. DESIGN LOADS:

11.1 THE STRUCTURAL ELEMENTS HAVE BEEN DESIGNED FOR THE FOLLOWING SUPERIMPOSED LIVE LOADS IN ACCORDANCE WITH AS 1170, PART 1, DEAD AND LIVE LOADS.

ELEMENT	LIVE LOAD (KPa)
CARPARK	2.5
APARTMENT GENERAL LIVING	2.0
RETAIL & OFFICE	4.0
BALCONIES	3.0
ROOF	0.25

SOME LOCATIONS WITHIN THE ABOVE GENERAL AREAS HAVE BEEN DESIGNED FOR HEAVIER LOADINGS, REFER TO FLOOR PLANS FOR DETAILS. LIVE LOAD REDUCTIONS IN ACCORDANCE WITH AS 1170 PART 1 HAVE BEEN TAKEN WHERE APPLICABLE.

11.2 WIND LOADING HAS BEEN DETERMINED IN ACCORDANCE WITH AS 1170 PART 2.
V_{ref},B = 42 m/s (ULTIMATE WINDSPEED)

11.3 EARTHQUAKE LOADING HAS BEEN DETERMINED IN ACCORDANCE WITH AS 1170 PART 4.

AA FOR CONSTRUCTION

DG

FK

19.10.18

No

REVISION

DRAWN

CHEK'D

DATE

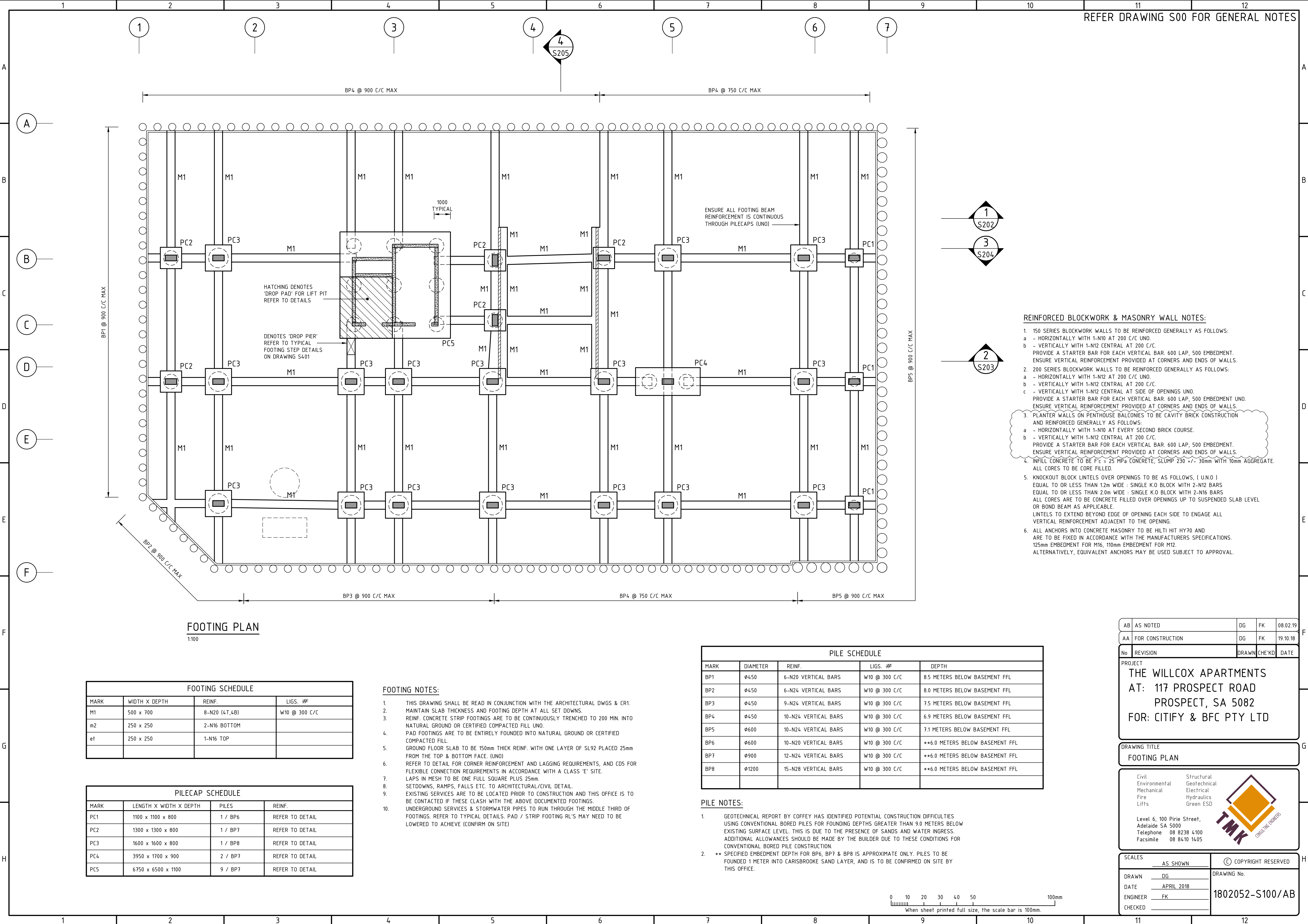
PROJECT
THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE
GENERAL NOTES

Civil
Environmental
Mechanical
Fire
Lifts

Structural
Geotechnical
Electrical
Hydraulics
Green ESD

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REFER DRAWING S00 FOR GENERAL NOTES

REINFORCED BLOCKWORK & MASONRY WALL NOTES:

- 1. 150 SERIES BLOCKWORK WALLS TO BE REINFORCED GENERALLY AS FOLLOWS:
 - a - HORIZONTALLY WITH 1-N10 AT 200 C/E UNO.
 - b - VERTICALLY WITH 1-N12 CENTRAL AT 200 C/E.PROVIDE A STARTER BAR FOR EACH VERTICAL BAR. 600 LAP, 500 EMBEDMENT. ENSURE VERTICAL REINFORCEMENT PROVIDED AT CORNERS AND ENDS OF WALLS.
- 2. 200 SERIES BLOCKWORK WALLS TO BE REINFORCED GENERALLY AS FOLLOWS:
 - a - HORIZONTALLY WITH 1-N12 AT 200 C/E UNO.
 - b - VERTICALLY WITH 1-N12 CENTRAL AT 200 C/E.
 - c - VERTICALLY WITH 1-N12 CENTRAL AT SIDE OF OPENINGS UNO.PROVIDE A STARTER BAR FOR EACH VERTICAL BAR. 600 LAP, 500 EMBEDMENT UNO. ENSURE VERTICAL REINFORCEMENT PROVIDED AT CORNERS AND ENDS OF WALLS.
- 3. PLANTER WALLS ON PENTHOUSE BALCONIES TO BE CAVITY BRICK CONSTRUCTION AND REINFORCED GENERALLY AS FOLLOWS:
 - a - HORIZONTALLY WITH 1-N10 AT EVERY SECOND BRICK COURSE.
 - b - VERTICALLY WITH 1-N12 CENTRAL AT 200 C/E.PROVIDE A STARTER BAR FOR EACH VERTICAL BAR. 600 LAP, 500 EMBEDMENT. ENSURE VERTICAL REINFORCEMENT PROVIDED AT CORNERS AND ENDS OF WALLS.
- 4. INFILL CONCRETE TO BE F'c = 25 MPa CONCRETE, SLUMP 230 +/- 30mm WITH 10mm AGGREGATE. ALL CORES TO BE CORE FILLED.
- 5. KNOCKOUT BLOCK LINTELS OVER OPENINGS TO BE AS FOLLOWS, (U.N.O)
 - EQUAL TO OR LESS THAN 12m WIDE : SINGLE K.O BLOCK WITH 2-N12 BARS
 - EQUAL TO OR LESS THAN 2.0m WIDE : SINGLE K.O BLOCK WITH 2-N16 BARSALL CORES ARE TO BE CONCRETE FILLED OVER OPENINGS UP TO SUSPENDED SLAB LEVEL OR BOND BEAM AS APPLICABLE. LINTELS TO EXTEND BEYOND EDGE OF OPENING EACH SIDE TO ENGAGE ALL VERTICAL REINFORCEMENT ADJACENT TO THE OPENING.
- 6. ALL ANCHORS INTO CONCRETE MASONRY TO BE HILT HIT HY70 AND ARE TO BE FIXED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. 125mm EMBEDMENT FOR M16, 110mm EMBEDMENT FOR M12. ALTERNATIVELY, EQUIVALENT ANCHORS MAY BE USED SUBJECT TO APPROVAL.

FOOTING PLAN
1:100

FOOTING SCHEDULE			
MARK	WIDTH X DEPTH	REINF.	LIGS. #
M1	500 x 700	8-N20 (4T,4B)	W10 @ 300 C/C
m2	250 x 250	2-N16 BOTTOM	
et	250 x 250	1-N16 TOP	

PILECAP SCHEDULE			
MARK	LENGTH X WIDTH X DEPTH	PILES	REINF.
PC1	1100 x 1100 x 800	1 / BP6	REFER TO DETAIL
PC2	1300 x 1300 x 800	1 / BP7	REFER TO DETAIL
PC3	1600 x 1600 x 800	1 / BP8	REFER TO DETAIL
PC4	3950 x 1700 x 900	2 / BP7	REFER TO DETAIL
PC5	6750 x 6500 x 1100	9 / BP7	REFER TO DETAIL

FOOTING NOTES:

- 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DWGS & CR1.
- 2. MAINTAIN SLAB THICKNESS AND FOOTING DEPTH AT ALL SET DOWNS.
- 3. REINF. CONCRETE STRIP FOOTINGS ARE TO BE CONTINUOUSLY TRENCHED TO 200 MIN. INTO NATURAL GROUND OR CERTIFIED COMPACTED FILL UNO.
- 4. PAD FOOTINGS ARE TO BE ENTIRELY FOUNDED INTO NATURAL GROUND OR CERTIFIED COMPACTED FILL.
- 5. GROUND FLOOR SLAB TO BE 150mm THICK REINF. WITH ONE LAYER OF SL92 PLACED 25mm FROM THE TOP & BOTTOM FACE. (UNO)
- 6. REFER TO DETAIL FOR CORNER REINFORCEMENT AND LAGGING REQUIREMENTS, AND CDS FOR FLEXIBLE CONNECTION REQUIREMENTS IN ACCORDANCE WITH A CLASS 'E' SITE.
- 7. LAPS IN MESH TO BE ONE FULL SQUARE PLUS 25mm.
- 8. SETDOWNS, RAMPS, FALLS ETC. TO ARCHITECTURAL/CIVIL DETAIL.
- 9. EXISTING SERVICES ARE TO BE LOCATED PRIOR TO CONSTRUCTION AND THIS OFFICE IS TO BE CONTACTED IF THESE CLASH WITH THE ABOVE DOCUMENTED FOOTINGS.
- 10. UNDERGROUND SERVICES & STORMWATER PIPES TO RUN THROUGH THE MIDDLE THIRD OF FOOTINGS. REFER TO TYPICAL DETAILS. PAD / STRIP FOOTING RL'S MAY NEED TO BE LOWERED TO ACHIEVE (CONFIRM ON SITE)

PILE SCHEDULE				
MARK	DIAMETER	REINF.	LIGS. #	DEPTH
BP1	Ø450	6-N20 VERTICAL BARS	W10 @ 300 C/C	8.5 METERS BELOW BASEMENT FFL
BP2	Ø450	6-N24 VERTICAL BARS	W10 @ 300 C/C	8.0 METERS BELOW BASEMENT FFL
BP3	Ø450	9-N24 VERTICAL BARS	W10 @ 300 C/C	7.5 METERS BELOW BASEMENT FFL
BP4	Ø450	10-N24 VERTICAL BARS	W10 @ 300 C/C	6.9 METERS BELOW BASEMENT FFL
BP5	Ø600	10-N24 VERTICAL BARS	W10 @ 300 C/C	7.1 METERS BELOW BASEMENT FFL
BP6	Ø600	10-N20 VERTICAL BARS	W10 @ 300 C/C	**6.0 METERS BELOW BASEMENT FFL
BP7	Ø900	12-N24 VERTICAL BARS	W10 @ 300 C/C	**6.0 METERS BELOW BASEMENT FFL
BP8	Ø1200	15-N28 VERTICAL BARS	W10 @ 300 C/C	**6.0 METERS BELOW BASEMENT FFL

PILE NOTES:

- 1. GEOTECHNICAL REPORT BY COFFEY HAS IDENTIFIED POTENTIAL CONSTRUCTION DIFFICULTIES USING CONVENTIONAL BORED PILES FOR FOUNDED DEPTHS GREATER THAN 9.0 METERS BELOW EXISTING SURFACE LEVEL. THIS IS DUE TO THE PRESENCE OF SANDS AND WATER INGRESS. ADDITIONAL ALLOWANCES SHOULD BE MADE BY THE BUILDER DUE TO THESE CONDITIONS FOR CONVENTIONAL BORED PILE CONSTRUCTION.
- 2. ** SPECIFIED EMBEDMENT DEPTH FOR BP6, BP7 & BP8 IS APPROXIMATE ONLY. PILES TO BE FOUNDED 1 METER INTO CARISBROOKE SAND LAYER, AND IS TO BE CONFIRMED ON SITE BY THIS OFFICE.

AB	AS NOTED	DG	FK	08.02.19
AA	FOR CONSTRUCTION	DG	FK	19.10.18

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PROJECT

THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE

FOOTING PLAN

Civil
Environmental
Mechanical
Fire
Lifts

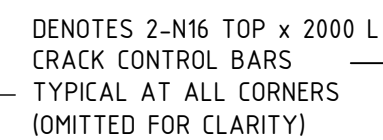
Structural
Geotechnical
Electrical
Hydraulics
Green ESD

Level 6, 100 Pirie Street,
Adelaide SA 5000
Telephone 08 8238 4100
Facsimile 08 8410 1405

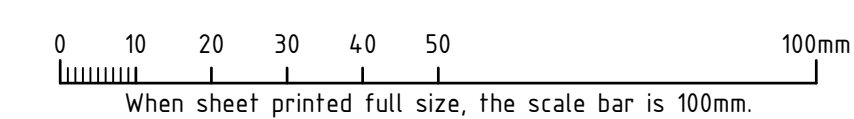


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DATE	APRIL 2018	
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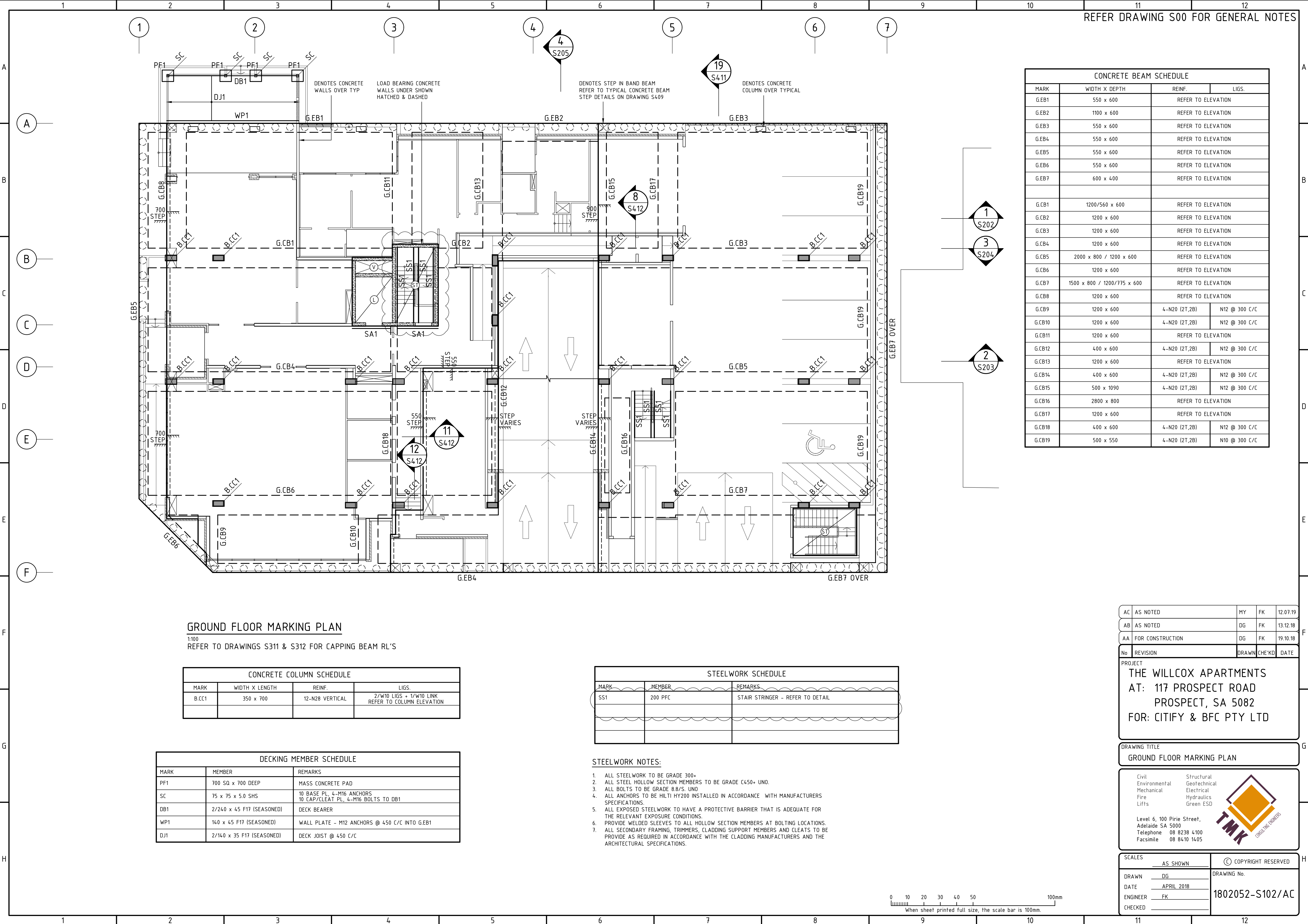
1. ALL STEELWORK TO BE GRADE 300.-
2. ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450- UNO.
3. ALL BOLTS TO BE GRADE 8.8/S. UNO
4. ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
5. ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE EXPOSED ENVIRONMENTAL CONDITIONS.
6. PROVIDE WELDED FLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
7. ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDED AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.



1:100
REFER DRAWING S100 FOR FOOTING NOTES & SCHEDULE



AA	FOR CONSTRUCTION	DG	FK	19.10.18
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PROJECT				
<p>THE WILLCOX APARTMENTS</p> <p>AT: 117 PROSPECT ROAD</p> <p>PROSPECT, SA 5082</p> <p>FOR: CITIFY & BFC PTY LTD</p>				
DRAWING TITLE				
BASEMENT FLOOR SLAB PLAN				
<div> <div> Civil Environmental Mechanical Fire Lifts </div> <div> Structural Geotechnical Electrical Hydraulics Green ESD </div> <div>  </div> </div> <p>Level 6, 100 Pirie Street, Adelaide SA 5000 Telephone 08 8238 4100 Facsimile 08 8410 1405</p>				
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ENGINEER _____ FK				
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REFER DRAWING S00 FOR GENERAL NOTES

CONCRETE BEAM SCHEDULE			
MARK	WIDTH X DEPTH	REINF.	LIGS.
G.EB1	550 x 600	REFER TO ELEVATION	
G.EB2	1100 x 600	REFER TO ELEVATION	
G.EB3	550 x 600	REFER TO ELEVATION	
G.EB4	550 x 600	REFER TO ELEVATION	
G.EB5	550 x 600	REFER TO ELEVATION	
G.EB6	550 x 600	REFER TO ELEVATION	
G.EB7	600 x 400	REFER TO ELEVATION	
G.CB1	1200/560 x 600	REFER TO ELEVATION	
G.CB2	1200 x 600	REFER TO ELEVATION	
G.CB3	1200 x 600	REFER TO ELEVATION	
G.CB4	1200 x 600	REFER TO ELEVATION	
G.CB5	2000 x 800 / 1200 x 600	REFER TO ELEVATION	
G.CB6	1200 x 600	REFER TO ELEVATION	
G.CB7	1500 x 800 / 1200/775 x 600	REFER TO ELEVATION	
G.CB8	1200 x 600	REFER TO ELEVATION	
G.CB9	1200 x 600	4-N20 (2T,2B)	N12 @ 300 C/C
G.CB10	1200 x 600	4-N20 (2T,2B)	N12 @ 300 C/C
G.CB11	1200 x 600	REFER TO ELEVATION	
G.CB12	400 x 600	4-N20 (2T,2B)	N12 @ 300 C/C
G.CB13	1200 x 600	REFER TO ELEVATION	
G.CB14	400 x 600	4-N20 (2T,2B)	N12 @ 300 C/C
G.CB15	500 x 1090	4-N20 (2T,2B)	N12 @ 300 C/C
G.CB16	2800 x 800	REFER TO ELEVATION	
G.CB17	1200 x 600	REFER TO ELEVATION	
G.CB18	400 x 600	4-N20 (2T,2B)	N12 @ 300 C/C
G.CB19	500 x 550	4-N20 (2T,2B)	N10 @ 300 C/C

GROUND FLOOR MARKING PLAN

1:100

REFER TO DRAWINGS S311 & S312 FOR CAPPING BEAM RL'S

CONCRETE COLUMN SCHEDULE			
MARK	WIDTH X LENGTH	REINF.	LIGS.
B.CC1	350 x 700	12-N28 VERTICAL	2/W10 LIGS + 1/W10 LINK REFER TO COLUMN ELEVATION

DECKING MEMBER SCHEDULE		
MARK	MEMBER	REMARKS
PF1	700 SQ x 700 DEEP	MASS CONCRETE PAD
SC	75 x 75 x 5.0 SHS	10 BASE PL, 4-M16 ANCHORS 10 CAP/CLEAT PL, 4-M16 BOLTS TO DB1
DB1	2/240 x 45 F17 (SEASONED)	DECK BEARER
WP1	140 x 45 F17 (SEASONED)	WALL PLATE - M12 ANCHORS @ 450 C/C INTO GEB1
DJ1	2/140 x 35 F17 (SEASONED)	DECK JOIST @ 450 C/C

STEELWORK SCHEDULE		
MARK	MEMBER	REMARKS
SS1	200 PFC	STAIR STRINGER - REFER TO DETAIL

STEELWORK NOTES:

- ALL STEELWORK TO BE GRADE 300+
- ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450+ UNO.
- ALL BOLTS TO BE GRADE 8.8/S. UNO
- ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE RELEVANT EXPOSURE CONDITIONS.
- PROVIDE WELDED SLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
- ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDED AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.

AC	AS NOTED	MY	FK	12.07.19
AB	AS NOTED	DG	FK	13.12.18
AA	FOR CONSTRUCTION	DG	FK	19.10.18
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PROJECT
THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE
GROUND FLOOR MARKING PLAN

Civil

Environmental

Mechanical

Fire

Lifts

Structural


Geotechnical

Electrical

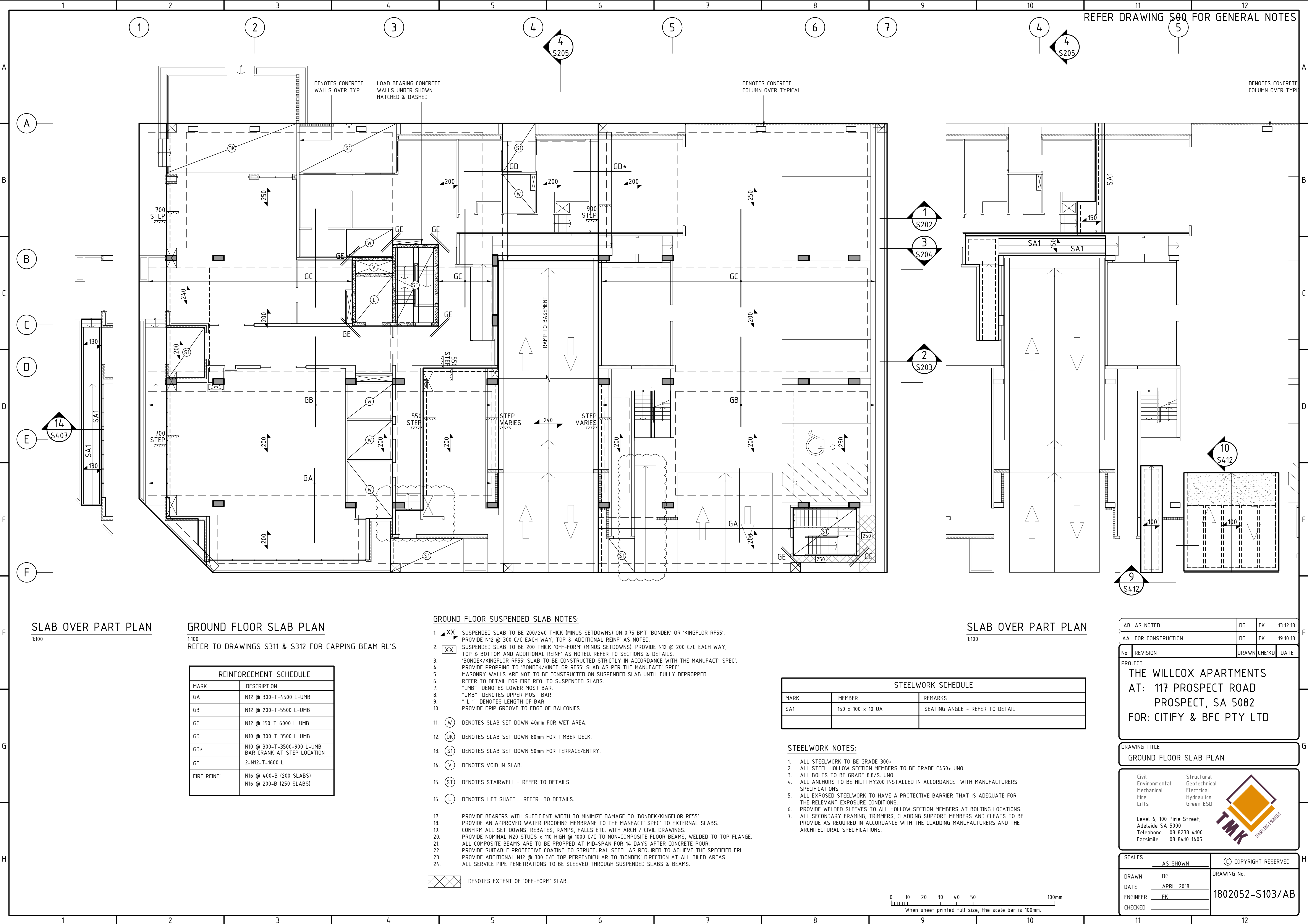
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REFER DRAWING S00 FOR GENERAL NOTES

SLAB OVER PART PLAN

1:100

GROUND FLOOR SLAB PLAN

1:100

REFER TO DRAWINGS S311 & S312 FOR CAPPING BEAM RL'S

REINFORCEMENT SCHEDULE	
MARK	DESCRIPTION
GA	N12 @ 300-T-4500 L-UMB
GB	N12 @ 200-T-5500 L-UMB
GC	N12 @ 150-T-6000 L-UMB
GD	N10 @ 300-T-3500 L-UMB
GD*	N10 @ 300-T-3500+900 L-UMB BAR CRANK AT STEP LOCATION
GE	2-N12-T-1600 L
FIRE REINF'	N16 @ 400-B (200 SLABS)
	N16 @ 200-B (250 SLABS)

GROUND FLOOR SUSPENDED SLAB NOTES:

- SUSPENDED SLAB TO BE 200/240 THICK (MINUS SETDOWNS) ON 0.75 BMT 'BONDEK' OR 'KINGFLOR RF55'. PROVIDE N12 @ 300 C/C EACH WAY, TOP & ADDITIONAL REINF' AS NOTED.
- SUSPENDED SLAB TO BE 200 THICK 'OFF-FORM' (MINUS SETDOWNS). PROVIDE N12 @ 200 C/C EACH WAY, TOP & BOTTOM AND ADDITIONAL REINF' AS NOTED. REFER TO SECTIONS & DETAILS.
- 'BONDEK/KINGFLOR RF55' SLAB TO BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACT' SPEC'. PROVIDE PROPPING TO 'BONDEK/KINGFLOR RF55' SLAB AS PER THE MANUFACT' SPEC'.
- MASONRY WALLS ARE NOT TO BE CONSTRUCTED ON SUSPENDED SLAB UNTIL FULLY DEPROPPED. REFER TO DETAIL FOR FIRE REQ' TO SUSPENDED SLABS.
- "LMB" DENOTES LOWER MOST BAR.
- "UMB" DENOTES UPPER MOST BAR.
- "L" DENOTES LENGTH OF BAR.
- PROVIDE DRIP GROOVE TO EDGE OF BALCONIES.
- DENOTES SLAB SET DOWN 40mm FOR WET AREA.
- DENOTES SLAB SET DOWN 80mm FOR TIMBER DECK.
- DENOTES SLAB SET DOWN 50mm FOR TERRACE/ENTRY.
- DENOTES VOID IN SLAB.
- DENOTES STAIRWELL - REFER TO DETAILS.
- DENOTES LIFT SHAFT - REFER TO DETAILS.
- PROVIDE BEARERS WITH SUFFICIENT WIDTH TO MINIMIZE DAMAGE TO 'BONDEK/KINGFLOR RF55'.
- PROVIDE AN APPROVED WATER PROOFING MEMBRANE TO THE MANFACT' SPEC' TO EXTERNAL SLABS.
- CONFIRM ALL SET DOWNS, REBATES, RAMP, FALLS ETC. WITH ARCH / CIVIL DRAWINGS.
- PROVIDE NOMINAL N20 STUDS x 110 HIGH @ 1000 C/C TO NON-COMPOSITE FLOOR BEAMS, WELDED TO TOP FLANGE.
- ALL COMPOSITE BEAMS ARE TO BE PROPPED AT MID-SPAN FOR 14 DAYS AFTER CONCRETE POUR.
- PROVIDE SUITABLE PROTECTIVE COATING TO STRUCTURAL STEEL AS REQUIRED TO ACHIEVE THE SPECIFIED FRL.
- PROVIDE ADDITIONAL N12 @ 300 C/C TOP PERPENDICULAR TO 'BONDEK' DIRECTION AT ALL TILED AREAS.
- ALL SERVICE PIPE PENETRATIONS TO BE SLEEVED THROUGH SUSPENDED SLABS & BEAMS.

DENOTES EXTENT OF 'OFF-FORM' SLAB.

SLAB OVER PART PLAN

1:100

STEELWORK SCHEDULE		
MARK	MEMBER	REMARKS
SA1	150 x 100 x 10 UA	SEATING ANGLE - REFER TO DETAIL

STEELWORK NOTES:

- ALL STEELWORK TO BE GRADE 300+.
- ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450+ UNO.
- ALL BOLTS TO BE GRADE 8.8/S. UNO
- ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE RELEVANT EXPOSURE CONDITIONS.
- PROVIDE WELDED SLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
- ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDE AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.

AB	AS NOTED	DG	FK	13.12.18
AA	FOR CONSTRUCTION	DG	FK	19.10.18
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PROJECT
THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE
GROUND FLOOR SLAB PLAN

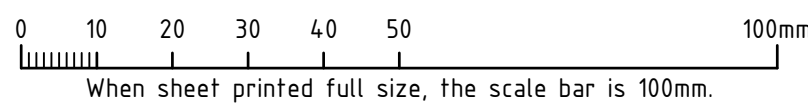
Civil
Environmental
Mechanical
Fire
Lifts

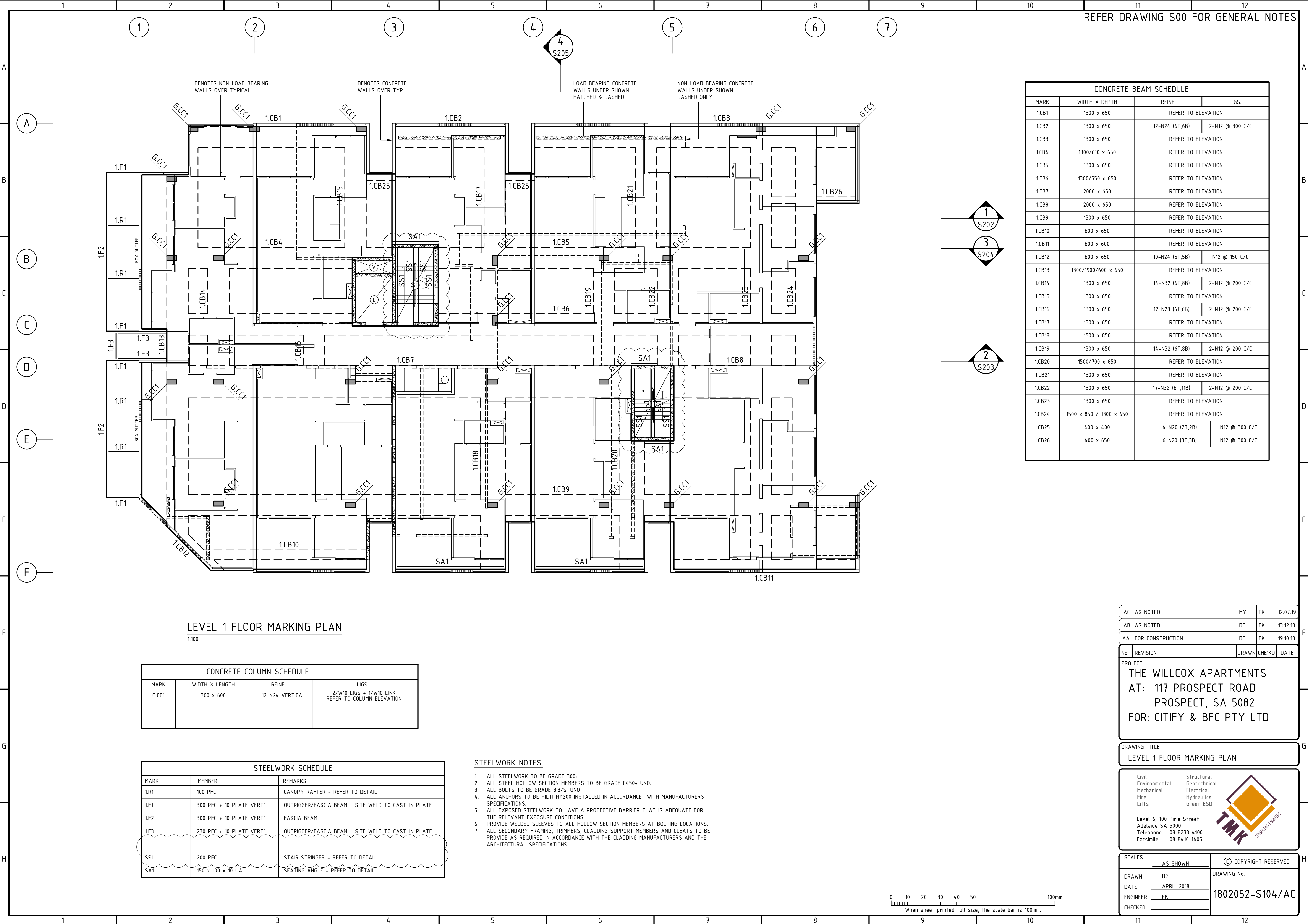
Structural
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Hydraulics
Green ESD

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PROJECT

THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE

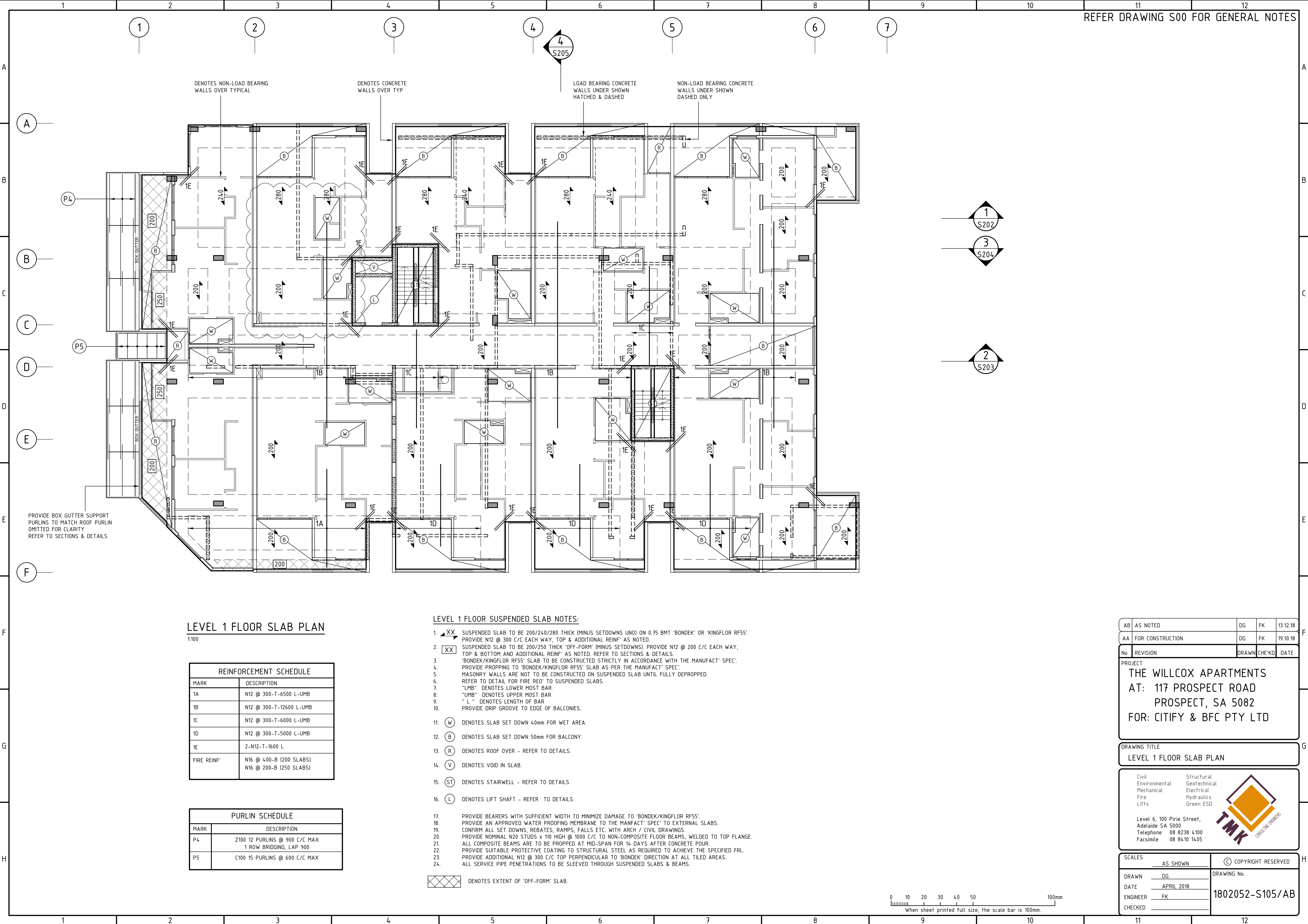
LEVEL 1 FLOOR MARKING PLAN

Civil
Environmental
Mechanical
Fire
Lifts

Structural
Geotechnical
Electrical
Hydraulics
Green ESD

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LEVEL 1 FLOOR SLAB PLAN

1:100

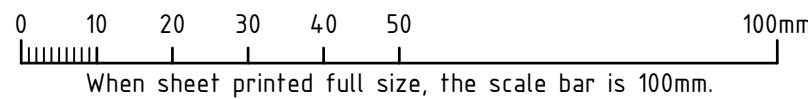
REINFORCEMENT SCHEDULE	
MARK	DESCRIPTION
1A	N12 @ 300-T-6500 L-UMB
1B	N12 @ 300-T-12600 L-UMB
1C	N12 @ 300-T-6000 L-UMB
1D	N12 @ 300-T-5000 L-UMB
1E	2-N12-T-1600 L
FIRE REINF'	N16 @ 400-B (200 SLABS) N16 @ 200-B (250 SLABS)

PURLIN SCHEDULE	
MARK	DESCRIPTION
P4	Z100 12 PURLINS @ 900 C/C MAX 1 ROW BRIDGING, LAP 900
P5	C100 15 PURLINS @ 600 C/C MAX

LEVEL 1 FLOOR SUSPENDED SLAB NOTES:

- SUSPENDED SLAB TO BE 200/240/280 THICK (MINUS SETDOWNS UNO) ON 0.75 BMT 'BONDEK' OR 'KINGFLOR RF55'. PROVIDE N12 @ 300 C/C EACH WAY, TOP & ADDITIONAL REINF' AS NOTED.
- SUSPENDED SLAB TO BE 200/250 THICK 'OFF-FORM' (MINUS SETDOWNS). PROVIDE N12 @ 200 C/C EACH WAY, TOP & BOTTOM AND ADDITIONAL REINF' AS NOTED. REFER TO SECTIONS & DETAILS.
- 'BONDEK/KINGFLOR RF55' SLAB TO BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACT' SPEC'. PROVIDE PROPPING TO 'BONDEK/KINGFLOR RF55' SLAB AS PER THE MANUFACT' SPEC'.
- MASONRY WALLS ARE NOT TO BE CONSTRUCTED ON SUSPENDED SLAB UNTIL FULLY DEPROPPED.
- REFER TO DETAIL FOR FIRE REQ' TO SUSPENDED SLABS.
- "LMB" DENOTES LOWER MOST BAR.
- "UMB" DENOTES UPPER MOST BAR
- "L" DENOTES LENGTH OF BAR
- PROVIDE DRIP GROOVE TO EDGE OF BALCONIES.
- DENOTES SLAB SET DOWN 40mm FOR WET AREA.
- DENOTES SLAB SET DOWN 50mm FOR BALCONY.
- DENOTES ROOF OVER - REFER TO DETAILS.
- DENOTES VOID IN SLAB.
- DENOTES STAIRWELL - REFER TO DETAILS.
- DENOTES LIFT SHAFT - REFER TO DETAILS.
- PROVIDE BEARERS WITH SUFFICIENT WIDTH TO MINIMIZE DAMAGE TO 'BONDEK/KINGFLOR RF55'.
- PROVIDE AN APPROVED WATER PROOFING MEMBRANE TO THE MANFACT' SPEC' TO EXTERNAL SLABS.
- CONFIRM ALL SET DOWNS, REBATES, RAMPS, FALLS ETC. WITH ARCH / CIVIL DRAWINGS.
- PROVIDE NOMINAL N20 STUDS x 110 HIGH @ 1000 C/C TO NON-COMPOSITE FLOOR BEAMS, WELDED TO TOP FLANGE.
- ALL COMPOSITE BEAMS ARE TO BE PROPPED AT MID-SPAN FOR 14 DAYS AFTER CONCRETE POUR.
- PROVIDE SUITABLE PROTECTIVE COATING TO STRUCTURAL STEEL AS REQUIRED TO ACHIEVE THE SPECIFIED FRL.
- PROVIDE ADDITIONAL N12 @ 300 C/C TOP PERPENDICULAR TO 'BONDEK' DIRECTION AT ALL TILED AREAS.
- ALL SERVICE PIPE PENETRATIONS TO BE SLEEVED THROUGH SUSPENDED SLABS & BEAMS.

DENOTES EXTENT OF 'OFF-FORM' SLAB.



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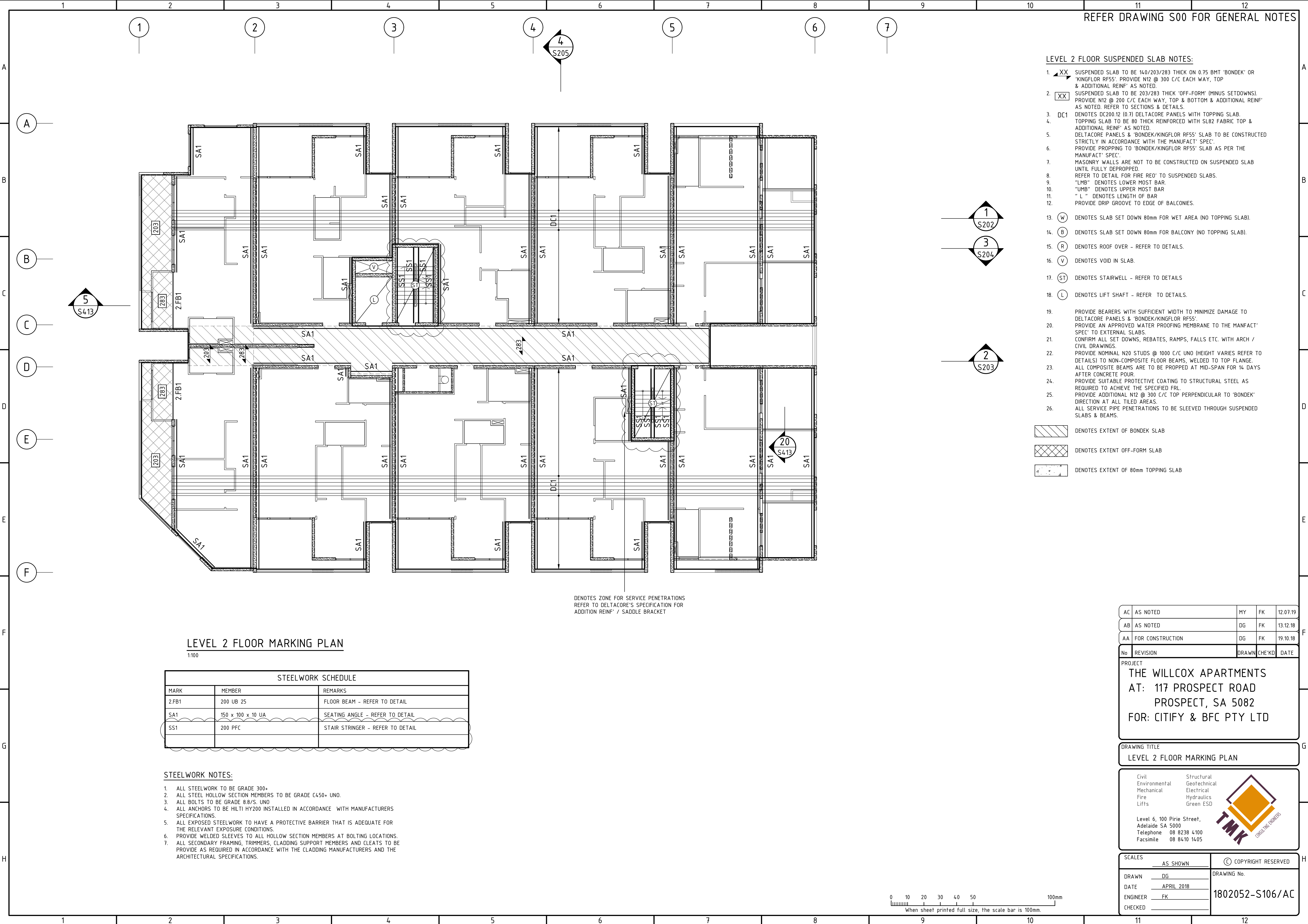
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PROJECT
THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE
LEVEL 1 FLOOR SLAB PLAN

Civil Environmental Mechanical Fire Lifts	Structural Geotechnical Electrical Hydraulics Green ESD
Level 6, 100 Pirie Street, Adelaide SA 5000 Telephone 08 8238 4100 Facsimile 08 8410 1405	

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REFER DRAWING S00 FOR GENERAL NOTES

LEVEL 2 FLOOR SUSPENDED SLAB NOTES:

- XX** SUSPENDED SLAB TO BE 140/203/283 THICK ON 0.75 BMT 'BONDEK' OR 'KINGFLOR RF55'. PROVIDE N12 @ 300 C/C EACH WAY, TOP & ADDITIONAL REINF' AS NOTED.
- XX** SUSPENDED SLAB TO BE 203/283 THICK 'OFF-FORM' (MINUS SETDOWNS). PROVIDE N12 @ 200 C/C EACH WAY, TOP & BOTTOM & ADDITIONAL REINF' AS NOTED. REFER TO SECTIONS & DETAILS.
- DC1** DENOTES DC200.12 (0.7) DELTACORE PANELS WITH TOPPING SLAB.
- TOPPING SLAB TO BE 80 THICK REINFORCED WITH SL82 FABRIC TOP & ADDITIONAL REINF' AS NOTED.
- DELTACORE PANELS & 'BONDEK/KINGFLOR RF55' SLAB TO BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACT' SPEC.
- PROVIDE PROPPING TO 'BONDEK/KINGFLOR RF55' SLAB AS PER THE MANUFACT' SPEC.
- MASONRY WALLS ARE NOT TO BE CONSTRUCTED ON SUSPENDED SLAB UNTIL FULLY DEPROPPED.
- REFER TO DETAIL FOR FIRE RES' TO SUSPENDED SLABS.
- "LMB" DENOTES LOWER MOST BAR.
- "UMB" DENOTES UPPER MOST BAR.
- "L" DENOTES LENGTH OF BAR.
- PROVIDE DRIP GROOVE TO EDGE OF BALCONIES.
- (W)** DENOTES SLAB SET DOWN 80mm FOR WET AREA (NO TOPPING SLAB).
- (B)** DENOTES SLAB SET DOWN 80mm FOR BALCONY (NO TOPPING SLAB).
- (R)** DENOTES ROOF OVER - REFER TO DETAILS.
- (V)** DENOTES VOID IN SLAB.
- (ST)** DENOTES STAIRWELL - REFER TO DETAILS.
- (L)** DENOTES LIFT SHAFT - REFER TO DETAILS.
- PROVIDE BEARERS WITH SUFFICIENT WIDTH TO MINIMIZE DAMAGE TO DELTACORE PANELS & 'BONDEK/KINGFLOR RF55'.
- PROVIDE AN APPROVED WATER PROOFING MEMBRANE TO THE MANFACT' SPEC' TO EXTERNAL SLABS.
- CONFIRM ALL SET DOWNS, REBATES, RAMPS, FALLS ETC. WITH ARCH / CIVIL DRAWINGS.
- PROVIDE NOMINAL N20 STUDS @ 1000 C/C UNO (HEIGHT VARIES REFER TO DETAILS) TO NON-COMPOSITE FLOOR BEAMS, WELDED TO TOP FLANGE.
- ALL COMPOSITE BEAMS ARE TO BE PROPPED AT MID-SPAN FOR 14 DAYS AFTER CONCRETE POUR.
- PROVIDE SUITABLE PROTECTIVE COATING TO STRUCTURAL STEEL AS REQUIRED TO ACHIEVE THE SPECIFIED FRL.
- PROVIDE ADDITIONAL N12 @ 300 C/C TOP PERPENDICULAR TO 'BONDEK' DIRECTION AT ALL TILED AREAS.
- ALL SERVICE PIPE PENETRATIONS TO BE SLEEVED THROUGH SUSPENDED SLABS & BEAMS.

- DENOTES EXTENT OF BONDEK SLAB
- DENOTES EXTENT OFF-FORM SLAB
- DENOTES EXTENT OF 80mm TOPPING SLAB

DENOTES ZONE FOR SERVICE PENETRATIONS
REFER TO DELTACORE'S SPECIFICATION FOR
ADDITION REINF' / SADDLE BRACKET

LEVEL 2 FLOOR MARKING PLAN

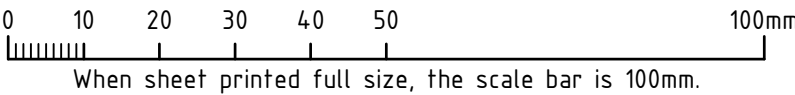
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STEELWORK SCHEDULE

MARK	MEMBER	REMARKS
2.FB1	200 UB 25	FLOOR BEAM - REFER TO DETAIL
SA1	150 x 100 x 10 UA	SEATING ANGLE - REFER TO DETAIL
SS1	200 PFC	STAIR STRINGER - REFER TO DETAIL

STEELWORK NOTES:

- ALL STEELWORK TO BE GRADE 300+.
- ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450+ UNO.
- ALL BOLTS TO BE GRADE 8.8/S. UNO.
- ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE RELEVANT EXPOSURE CONDITIONS.
- PROVIDE WELDED SLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
- ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDE AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.



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PROJECT
THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE
LEVEL 2 FLOOR MARKING PLAN

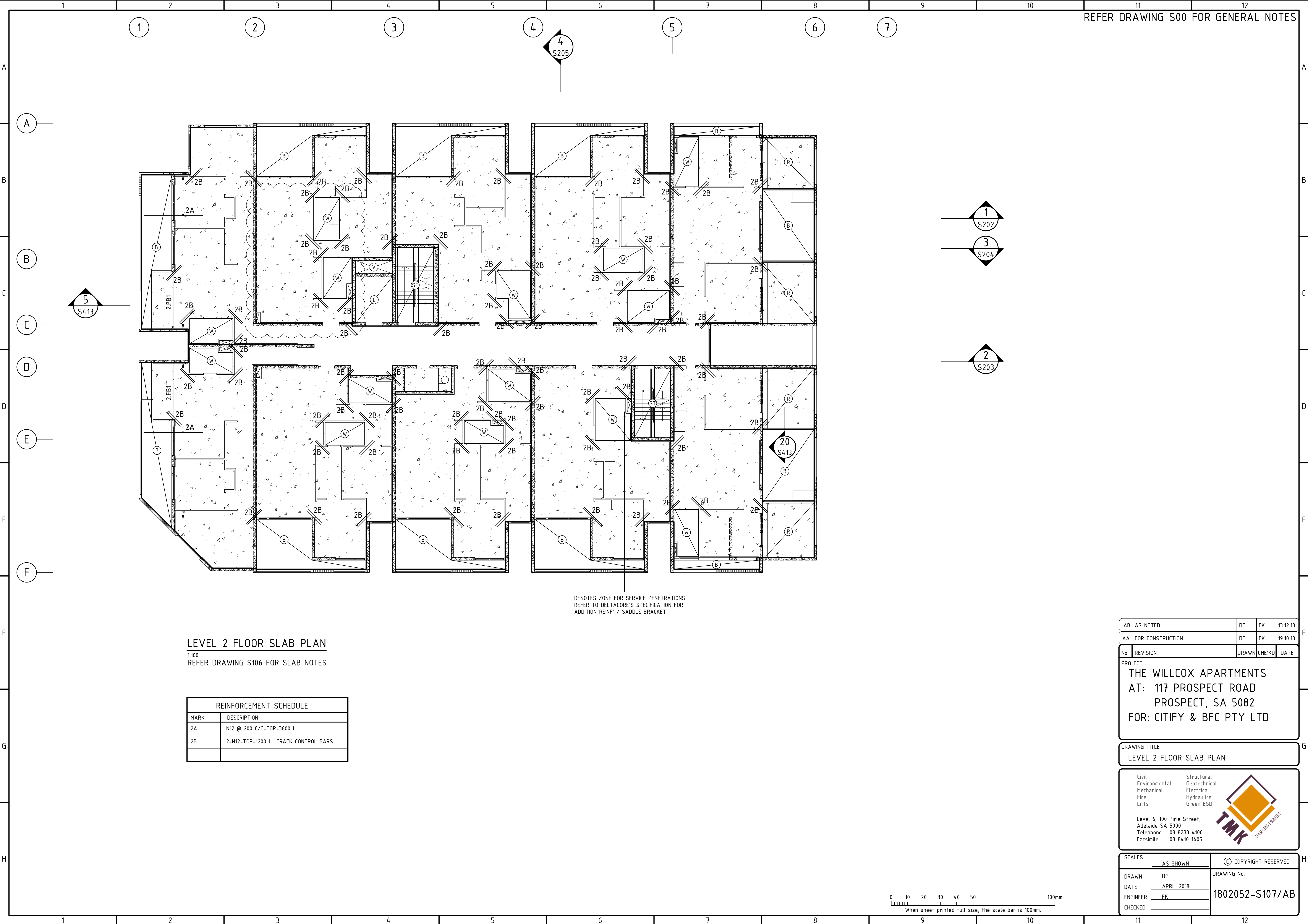
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Facsimile 08 8410 1405



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DATE	APRIL 2018	1802052-S106/AC
ENGINEER	FK	
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REFER DRAWING S00 FOR GENERAL NOTES

LEVEL 2 FLOOR SLAB PLAN
1:100
REFER DRAWING S106 FOR SLAB NOTES

REINFORCEMENT SCHEDULE	
MARK	DESCRIPTION
2A	N12 @ 200 C/C-TOP-3600 L
2B	2-N12-TOP-1200 L CRACK CONTROL BARS

AB	AS NOTED	DG	FK	13.12.18
AA	FOR CONSTRUCTION	DG	FK	19.10.18
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PROJECT
THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE
LEVEL 2 FLOOR SLAB PLAN

Civil
Environmental
Mechanical
Fire
Lifts

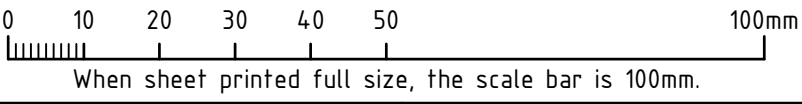
Structural
Geotechnical
Electrical
Hydraulics
Green ESD

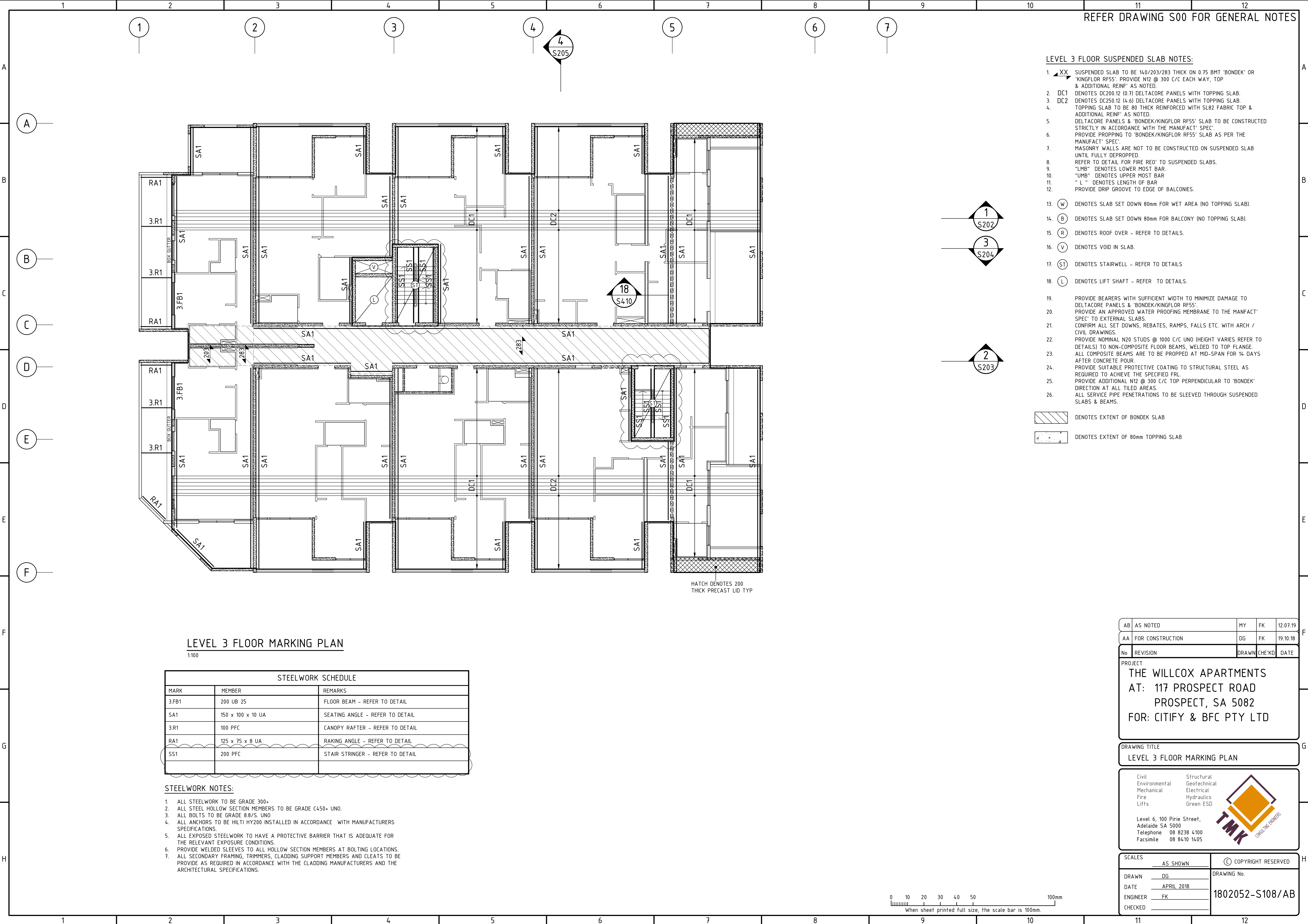


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REFER DRAWING S00 FOR GENERAL NOTES

LEVEL 3 FLOOR SUSPENDED SLAB NOTES:

- SUSPENDED SLAB TO BE 140/203/283 THICK ON 0.75 BMT 'BONDEK' OR 'KINGFLOR RF55'; PROVIDE N12 @ 300 C/C EACH WAY, TOP & ADDITIONAL REINF' AS NOTED.
- DC1 DENOTES DC200.12 (0.7) DELTACORE PANELS WITH TOPPING SLAB.
- DC2 DENOTES DC250.12 (4.6) DELTACORE PANELS WITH TOPPING SLAB.
- TOPPING SLAB TO BE 80 THICK REINFORCED WITH SL82 FABRIC TOP & ADDITIONAL REINF' AS NOTED.
- DELTACORE PANELS & 'BONDEK/KINGFLOR RF55' SLAB TO BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACT' SPEC'.
- PROVIDE PROPPING TO 'BONDEK/KINGFLOR RF55' SLAB AS PER THE MANUFACT' SPEC'.
- MASONRY WALLS ARE NOT TO BE CONSTRUCTED ON SUSPENDED SLAB UNTIL FULLY DEPROPPED.
- REFER TO DETAIL FOR FIRE REQ' TO SUSPENDED SLABS.
- "LMB" DENOTES LOWER MOST BAR.
- "UMB" DENOTES UPPER MOST BAR.
- "L" DENOTES LENGTH OF BAR.
- PROVIDE DRIP GROOVE TO EDGE OF BALCONIES.
- DENOTES SLAB SET DOWN 80mm FOR WET AREA (NO TOPPING SLAB).
- DENOTES SLAB SET DOWN 80mm FOR BALCONY (NO TOPPING SLAB).
- DENOTES ROOF OVER - REFER TO DETAILS.
- DENOTES VOID IN SLAB.
- DENOTES STAIRWELL - REFER TO DETAILS.
- DENOTES LIFT SHAFT - REFER TO DETAILS.
- PROVIDE BEARERS WITH SUFFICIENT WIDTH TO MINIMIZE DAMAGE TO DELTACORE PANELS & 'BONDEK/KINGFLOR RF55'.
- PROVIDE AN APPROVED WATER PROOFING MEMBRANE TO THE MANFACT' SPEC' TO EXTERNAL SLABS.
- CONFIRM ALL SET DOWNS, REBATES, RAMPS, FALLS ETC. WITH ARCH / CIVIL DRAWINGS.
- PROVIDE NOMINAL N20 STUDS @ 1000 C/C UNO (HEIGHT VARIES REFER TO DETAILS) TO NON-COMPOSITE FLOOR BEAMS, WELDED TO TOP FLANGE. ALL COMPOSITE BEAMS ARE TO BE PROPPED AT MID-SPAN FOR 14 DAYS AFTER CONCRETE POUR.
- PROVIDE SUITABLE PROTECTIVE COATING TO STRUCTURAL STEEL AS REQUIRED TO ACHIEVE THE SPECIFIED FRL.
- PROVIDE ADDITIONAL N12 @ 300 C/C TOP PERPENDICULAR TO 'BONDEK' DIRECTION AT ALL TILED AREAS.
- ALL SERVICE PIPE PENETRATIONS TO BE SLEEVED THROUGH SUSPENDED SLABS & BEAMS.

- DENOTES EXTENT OF BONDEK SLAB
- DENOTES EXTENT OF 80mm TOPPING SLAB

LEVEL 3 FLOOR MARKING PLAN

1:100

STEELWORK SCHEDULE		
MARK	MEMBER	REMARKS
3.FB1	200 UB 25	FLOOR BEAM - REFER TO DETAIL
SA1	150 x 100 x 10 UA	SEATING ANGLE - REFER TO DETAIL
3.R1	100 PFC	CANOPY RAFTER - REFER TO DETAIL
RA1	125 x 75 x 8 UA	RAKING ANGLE - REFER TO DETAIL
SS1	200 PFC	STAIR STRINGER - REFER TO DETAIL

STEELWORK NOTES:

- ALL STEELWORK TO BE GRADE 300+.
- ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450+ UNO.
- ALL BOLTS TO BE GRADE 8.8/S. UNO.
- ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE RELEVANT EXPOSURE CONDITIONS.
- PROVIDE WELDED SLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
- ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDE AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.

AB	AS NOTED	MY	FK	12.07.19
AA	FOR CONSTRUCTION	DG	FK	19.10.18

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PROJECT

THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE

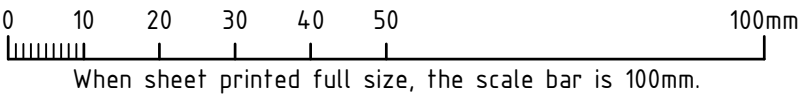
LEVEL 3 FLOOR MARKING PLAN

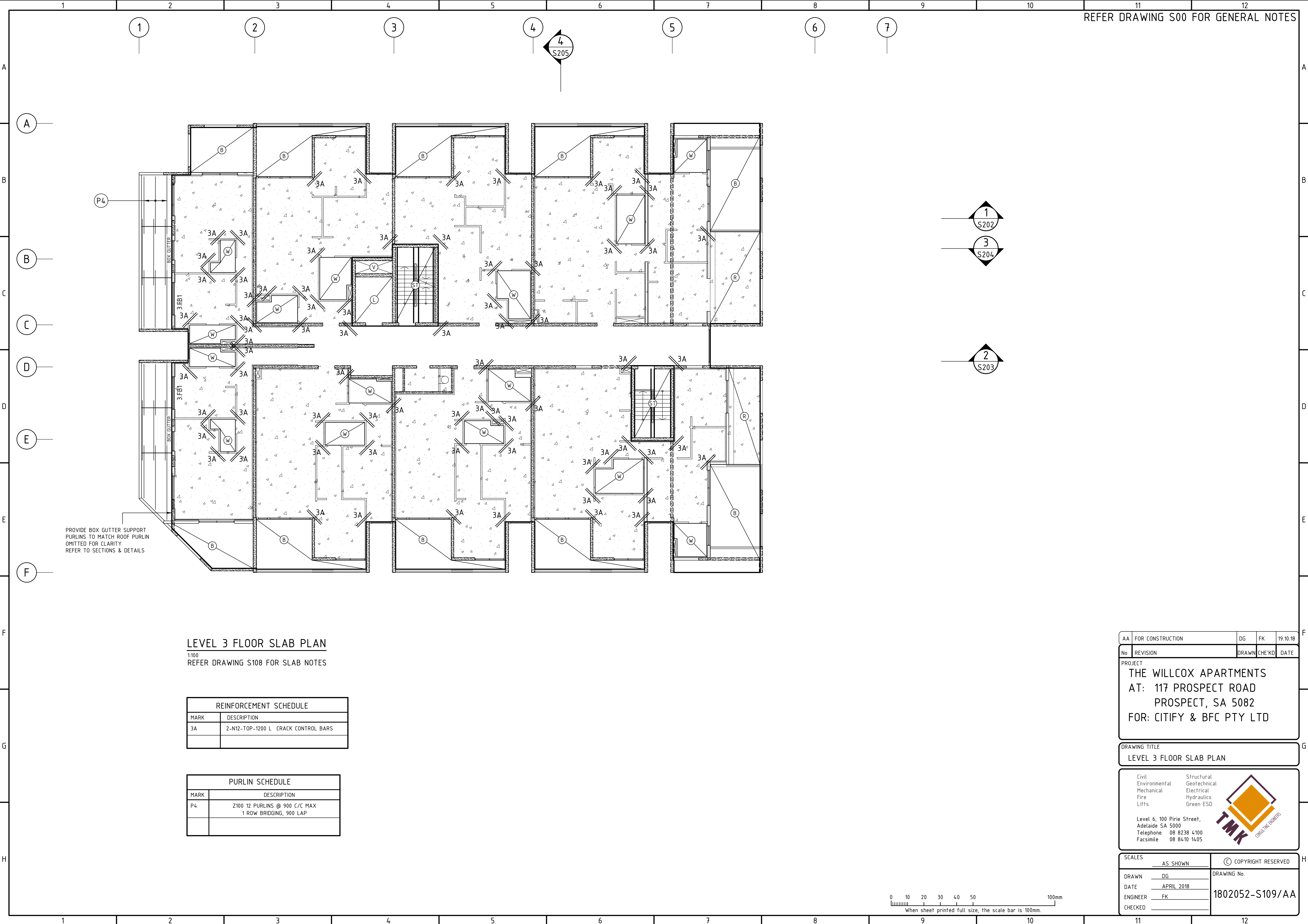
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REFER DRAWING S00 FOR GENERAL NOTES

LEVEL 3 FLOOR SLAB PLAN

1:100
REFER DRAWING S108 FOR SLAB NOTES

REINFORCEMENT SCHEDULE	
MARK	DESCRIPTION
3A	2-N12-TOP-1200 L CRACK CONTROL BARS

PURLIN SCHEDULE	
MARK	DESCRIPTION
P4	Z100 12 PURLINS @ 900 C/C MAX 1 ROW BRIDGING, 900 LAP

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PROJECT
THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE
LEVEL 3 FLOOR SLAB PLAN

Civil

Environmental

Mechanical

Fire

Lifts

Structural

Geotechnical

Electrical

Hydraulics

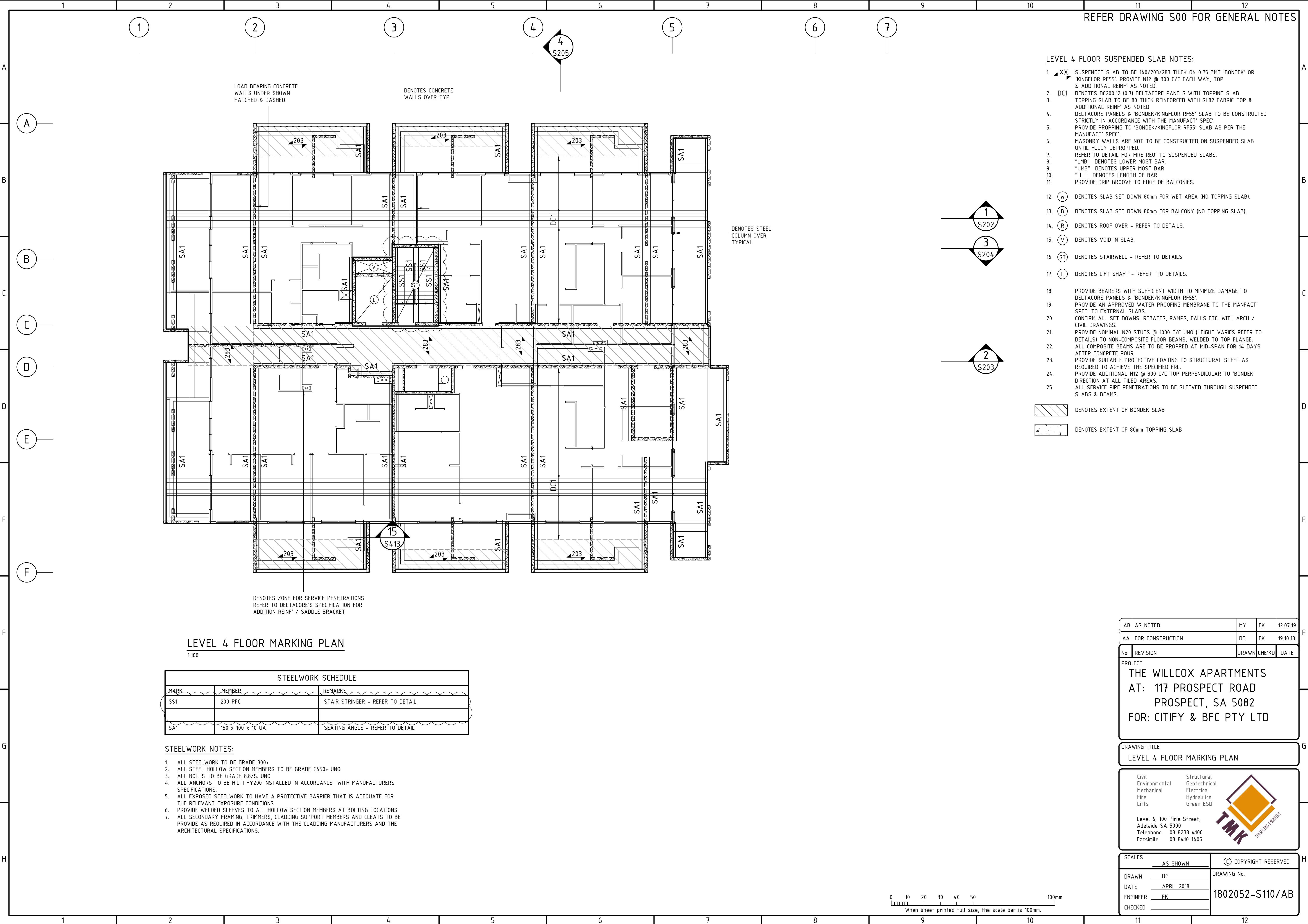
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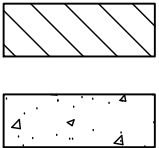
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REFER DRAWING S00 FOR GENERAL NOTES

LEVEL 4 FLOOR SUSPENDED SLAB NOTES:

1. SUSPENDED SLAB TO BE 140/203/283 THICK ON 0.75 BMT 'BONDEK' OR 'KINGFLOR RF55'; PROVIDE N12 @ 300 C/C EACH WAY, TOP & ADDITIONAL REINF' AS NOTED.
2. DC1 DENOTES DC200.12 (0.7) DELTACORE PANELS WITH TOPPING SLAB.
3. TOPPING SLAB TO BE 80 THICK REINFORCED WITH SL82 FABRIC TOP & ADDITIONAL REINF' AS NOTED.
4. DELTACORE PANELS & 'BONDEK/KINGFLOR RF55' SLAB TO BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACT' SPEC'.
5. PROVIDE PROPPING TO 'BONDEK/KINGFLOR RF55' SLAB AS PER THE MANUFACT' SPEC'.
6. MASONRY WALLS ARE NOT TO BE CONSTRUCTED ON SUSPENDED SLAB UNTIL FULLY DEPROPPED.
7. REFER TO DETAIL FOR FIRE REQ' TO SUSPENDED SLABS.
8. "LMB" DENOTES LOWER MOST BAR.
9. "UMB" DENOTES UPPER MOST BAR
10. "L" DENOTES LENGTH OF BAR
11. PROVIDE DRIP GROOVE TO EDGE OF BALCONIES.
12. (W) DENOTES SLAB SET DOWN 80mm FOR WET AREA (NO TOPPING SLAB).
13. (B) DENOTES SLAB SET DOWN 80mm FOR BALCONY (NO TOPPING SLAB).
14. (R) DENOTES ROOF OVER - REFER TO DETAILS.
15. (V) DENOTES VOID IN SLAB.
16. (ST) DENOTES STAIRWELL - REFER TO DETAILS
17. (L) DENOTES LIFT SHAFT - REFER TO DETAILS.
18. PROVIDE BEARERS WITH SUFFICIENT WIDTH TO MINIMIZE DAMAGE TO DELTACORE PANELS & 'BONDEK/KINGFLOR RF55'.
19. PROVIDE AN APPROVED WATER PROOFING MEMBRANE TO THE MANFACT' SPEC' TO EXTERNAL SLABS.
20. CONFIRM ALL SET DOWNS, REBATES, RAMPS, FALLS ETC. WITH ARCH / CIVIL DRAWINGS.
21. PROVIDE NOMINAL N20 STUDS @ 1000 C/C UNO (HEIGHT VARIES REFER TO DETAILS) TO NON-COMPOSITE FLOOR BEAMS, WELDED TO TOP FLANGE.
22. ALL COMPOSITE BEAMS ARE TO BE PROPPED AT MID-SPAN FOR 14 DAYS AFTER CONCRETE POUR.
23. PROVIDE SUITABLE PROTECTIVE COATING TO STRUCTURAL STEEL AS REQUIRED TO ACHIEVE THE SPECIFIED FRL.
24. PROVIDE ADDITIONAL N12 @ 300 C/C TOP PERPENDICULAR TO 'BONDEK' DIRECTION AT ALL TILED AREAS.
25. ALL SERVICE PIPE PENETRATIONS TO BE SLEEVED THROUGH SUSPENDED SLABS & BEAMS.



LEVEL 4 FLOOR MARKING PLAN

1:100

STEELWORK SCHEDULE		
MARK	MEMBER	REMARKS
SS1	200 PFC	STAIR STRINGER - REFER TO DETAIL
SA1	150 x 100 x 10 UA	SEATING ANGLE - REFER TO DETAIL

STEELWORK NOTES:

1. ALL STEELWORK TO BE GRADE 300+.
2. ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450+ UNO.
3. ALL BOLTS TO BE GRADE 8.8/S. UNO
4. ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
5. ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE RELEVANT EXPOSURE CONDITIONS.
6. PROVIDE WELDED SLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
7. ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDE AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.

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AA	FOR CONSTRUCTION	DG	FK	19.10.18
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PROJECT
THE WILLCOX APARTMENTS
AT: 117 PROSPECT ROAD
PROSPECT, SA 5082
FOR: CITIFY & BFC PTY LTD

DRAWING TITLE
LEVEL 4 FLOOR MARKING PLAN

Civil

Environmental

Mechanical

Fire

Lifts

Structural

Geotechnical

Electrical

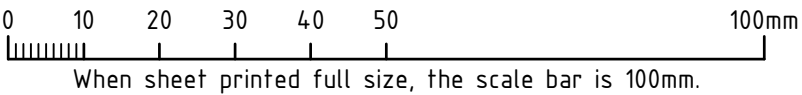
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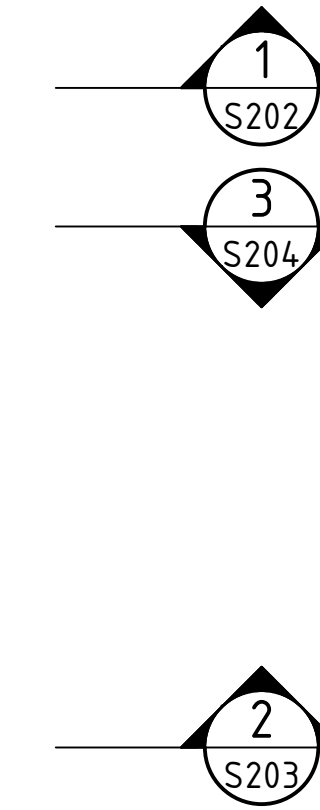
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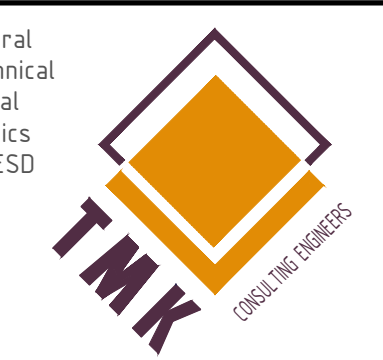
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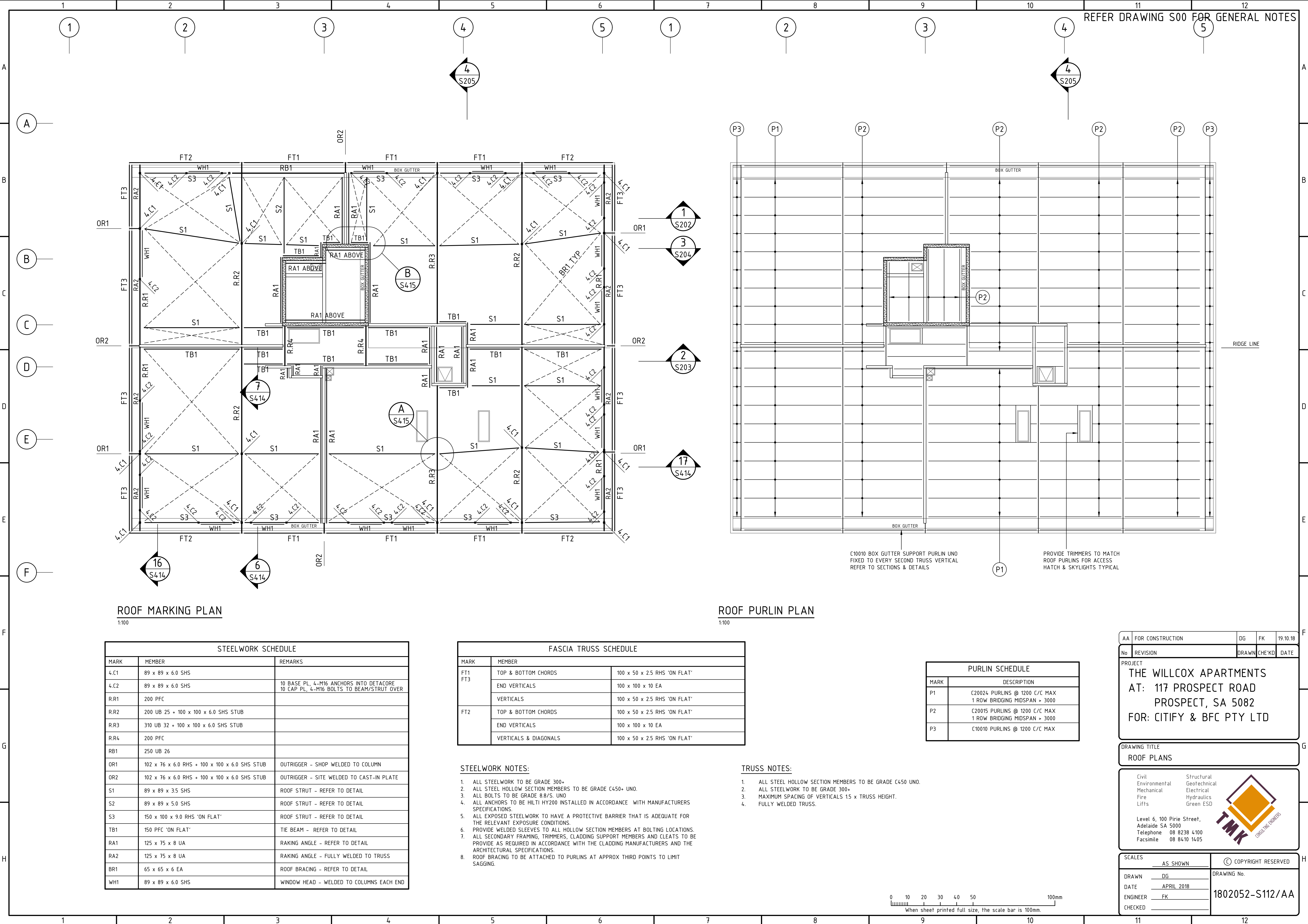




1:100
REFER DRAWING S110 FOR SLAB NOTES

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PROJECT THE WILLCOX APARTMENTS AT: 117 PROSPECT ROAD PROSPECT, SA 5082 FOR: CITIFY & BFC PTY LTD						
DRAWING TITLE LEVEL 4 FLOOR SLAB PLAN						
<div><div><div>Civil Environmental Mechanical Fire Lifts</div><div>Structural Geotechnical Electrical Hydraulics Green ESD</div><div></div></div><div>Level 6, 100 Pirie Street, Adelaide SA 5000 Telephone 08 8238 4100 Facsimile 08 8410 1405</div></div>						
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ROOF MARKING PLAN
1:100

STEELWORK SCHEDULE		
MARK	MEMBER	REMARKS
4.C1	89 x 89 x 6.0 SHS	
4.C2	89 x 89 x 6.0 SHS	10 BASE PL, 4-M16 ANCHORS INTO DETACORE 10 CAP PL, 4-M16 BOLTS TO BEAM/STRUT OVER
R.R1	200 PFC	
R.R2	200 UB 25 + 100 x 100 x 6.0 SHS STUB	
R.R3	310 UB 32 + 100 x 100 x 6.0 SHS STUB	
R.R4	200 PFC	
RB1	250 UB 26	
OR1	102 x 76 x 6.0 RHS + 100 x 100 x 6.0 SHS STUB	OUTRIGGER - SHOP WELDED TO COLUMN
OR2	102 x 76 x 6.0 RHS + 100 x 100 x 6.0 SHS STUB	OUTRIGGER - SITE WELDED TO CAST-IN PLATE
S1	89 x 89 x 3.5 SHS	ROOF STRUT - REFER TO DETAIL
S2	89 x 89 x 5.0 SHS	ROOF STRUT - REFER TO DETAIL
S3	150 x 100 x 9.0 RHS 'ON FLAT'	ROOF STRUT - REFER TO DETAIL
TB1	150 PFC 'ON FLAT'	TIE BEAM - REFER TO DETAIL
RA1	125 x 75 x 8 UA	RAKING ANGLE - REFER TO DETAIL
RA2	125 x 75 x 8 UA	RAKING ANGLE - FULLY WELDED TO TRUSS
BR1	65 x 65 x 6 EA	ROOF BRACING - REFER TO DETAIL
WH1	89 x 89 x 6.0 SHS	WINDOW HEAD - WELDED TO COLUMNS EACH END

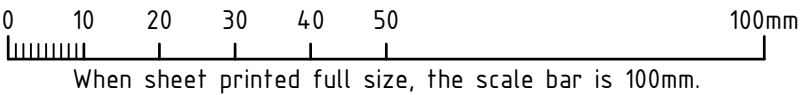
FASCIA TRUSS SCHEDULE		
MARK	MEMBER	
FT1 FT3	TOP & BOTTOM CHORDS	100 x 50 x 2.5 RHS 'ON FLAT'
	END VERTICALS	100 x 100 x 10 EA
	VERTICALS	100 x 50 x 2.5 RHS 'ON FLAT'
FT2	TOP & BOTTOM CHORDS	100 x 50 x 2.5 RHS 'ON FLAT'
	END VERTICALS	100 x 100 x 10 EA
	VERTICALS & DIAGONALS	100 x 50 x 2.5 RHS 'ON FLAT'

- STEELWORK NOTES:
- ALL STEELWORK TO BE GRADE 300+
 - ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450+ UNO.
 - ALL BOLTS TO BE GRADE 8.8/5. UNO
 - ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 - ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE RELEVANT EXPOSURE CONDITIONS.
 - PROVIDE WELDED SLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
 - ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDE AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.
 - ROOF BRACING TO BE ATTACHED TO PURLINS AT APPROX THIRD POINTS TO LIMIT SAGGING.

ROOF PURLIN PLAN
1:100

PURLIN SCHEDULE	
MARK	DESCRIPTION
P1	C20024 PURLINS @ 1200 C/C MAX 1 ROW BRIDGING MIDSPAN > 3000
P2	C20015 PURLINS @ 1200 C/C MAX 1 ROW BRIDGING MIDSPAN > 3000
P3	C10010 PURLINS @ 1200 C/C MAX

- TRUSS NOTES:
- ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450 UNO.
 - ALL STEELWORK TO BE GRADE 300+
 - MAXIMUM SPACING OF VERTICALS 15 x TRUSS HEIGHT.
 - FULLY WELDED TRUSS.



AA	FOR CONSTRUCTION	DG	FK	19.10.18
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PROJECT				
THE WILLCOX APARTMENTS AT: 117 PROSPECT ROAD PROSPECT, SA 5082 FOR: CITIFY & BFC PTY LTD				
DRAWING TITLE				
ROOF PLANS				
<div>Civil Environmental Mechanical Fire Lifts</div> <div>Structural Geotechnical Electrical Hydraulics Green ESD</div> <div>Level 6, 100 Pirie Street, Adelaide SA 5000 Telephone 08 8238 4100 Facsimile 08 8410 1405</div> <div></div>				
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