



APPENDIX

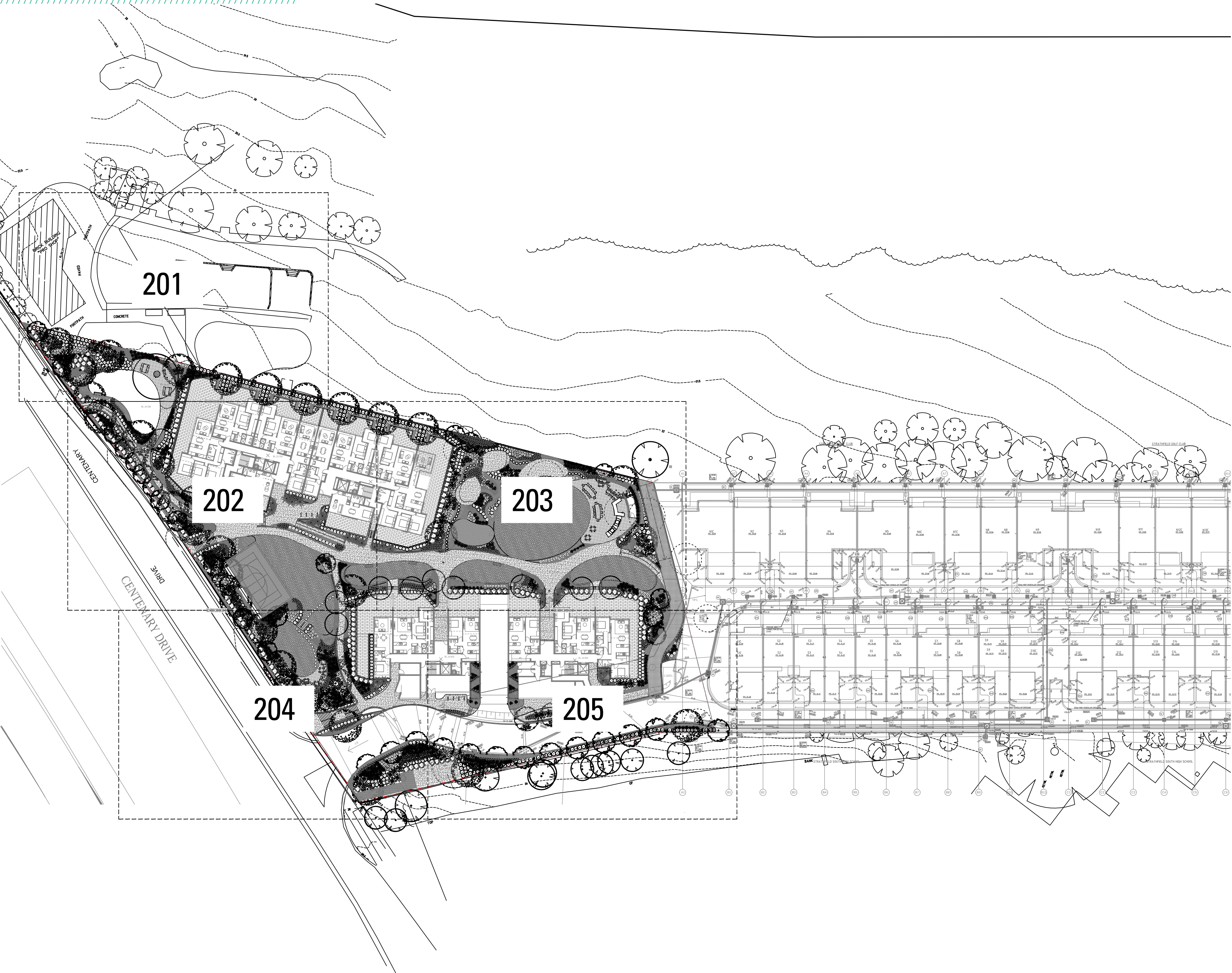
METRO PROPERTY DEVELOPMENT

- LEGEND
- PROPOSED UNIT PAVING (COMMUNAL)
 - PROPOSED UNIT PAVING (PRIVATE)
 - PROPOSED CONCRETE PAVING
 - PROPOSED STEPPERS
 - PROPOSED RETAINING WALL
 - PROPOSED COURTYARD FENCE
Refer Architects Drawings
 - PROPOSED STEEL EDGING
 - EXISTING TREES TO BE REMOVED
 - EXISTING TREES TO BE RETAINED
 - PROPOSED FEATURE TREE PLANTING
 - PROPOSED SHRUB PLANTING
 - PROPOSED GROUNDCOVER PLANTING
 - PROPOSED TURF

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13 June 2018



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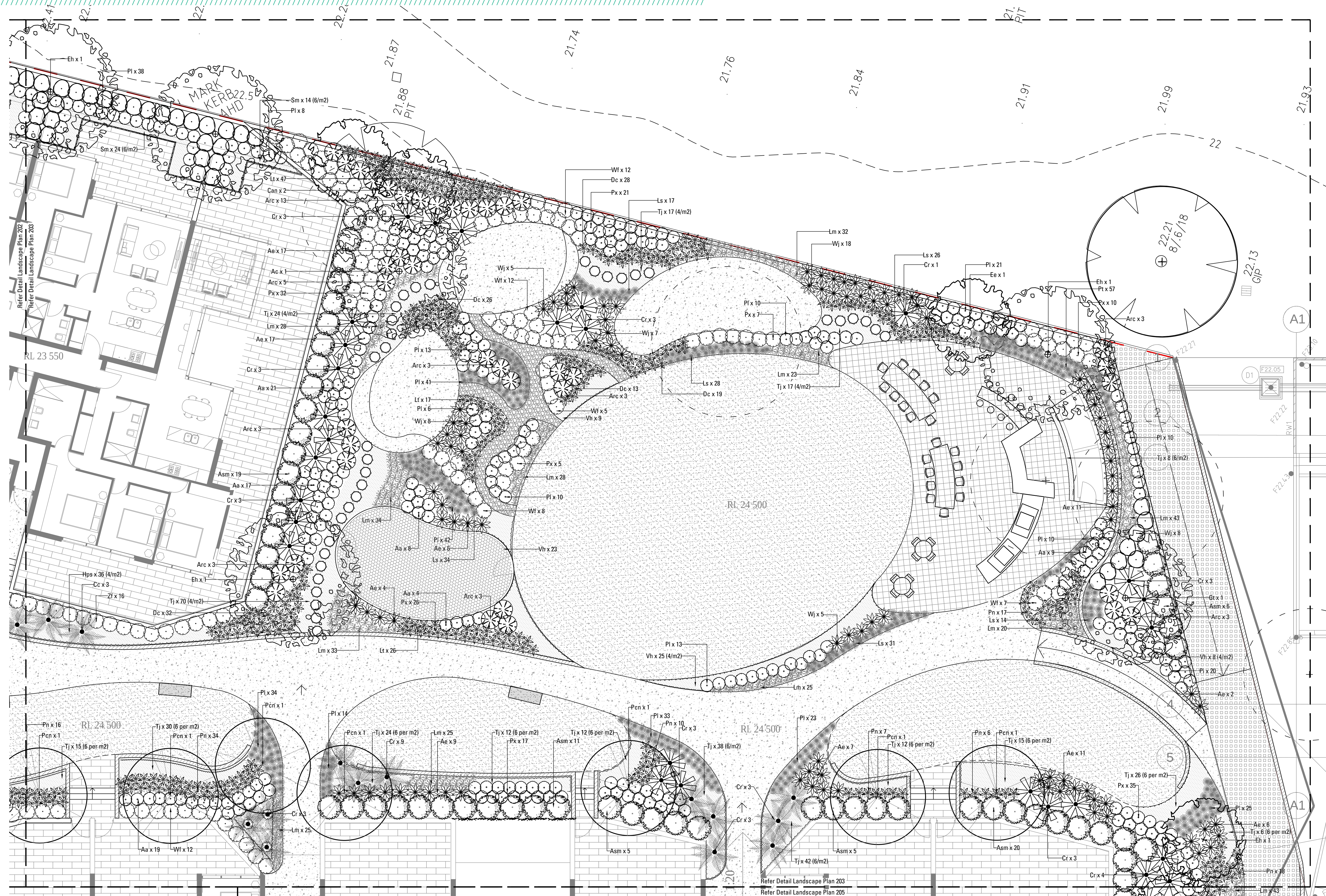


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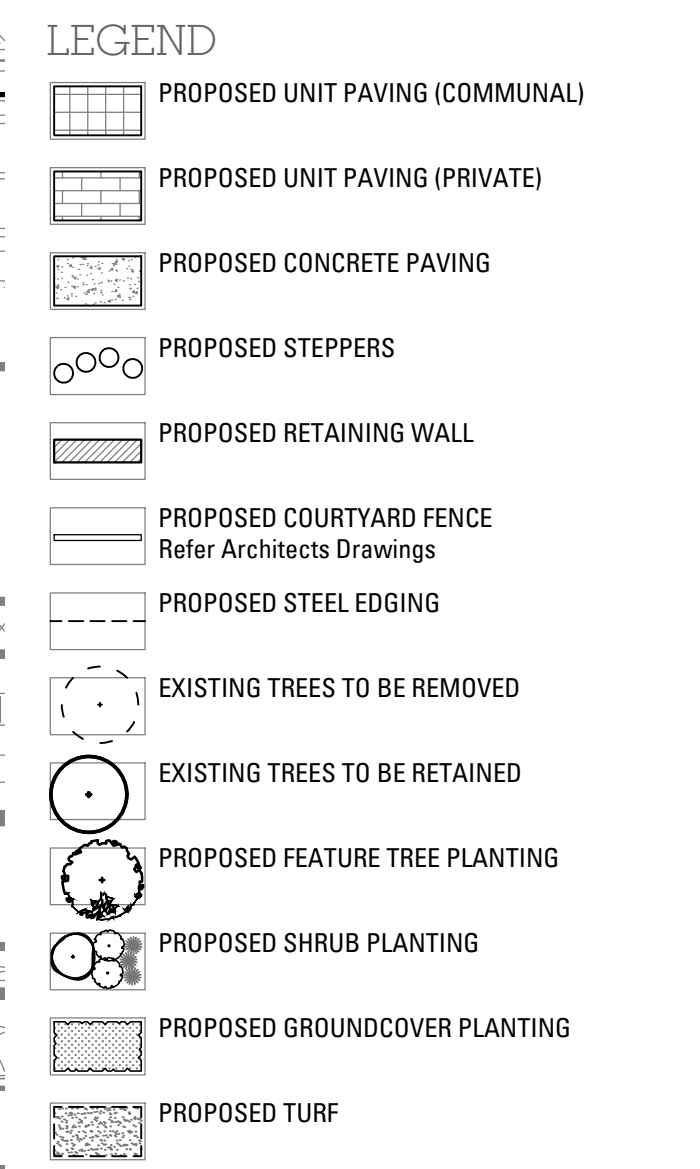
LEGEND

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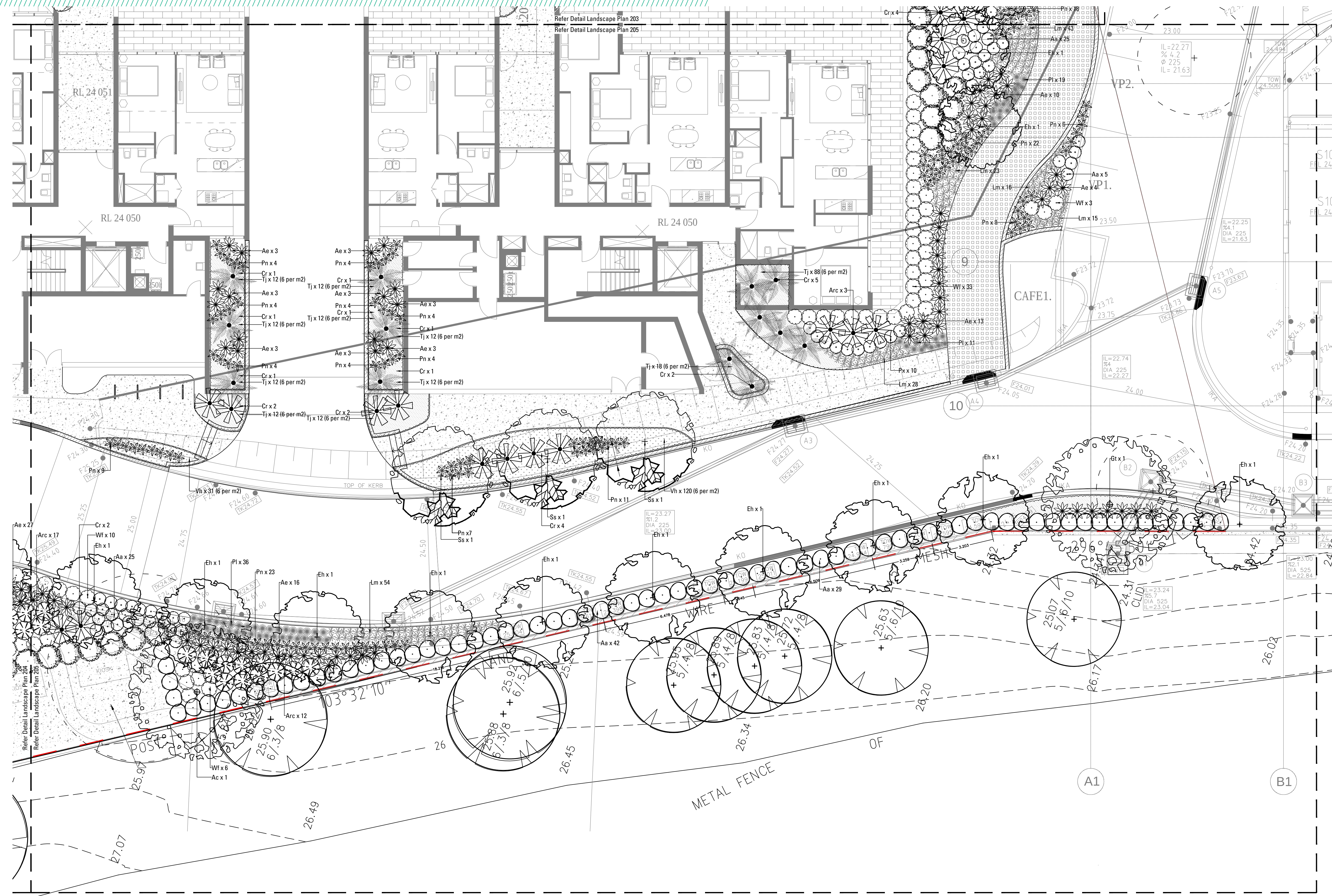


84 CENTENARY DRIVE, STRATHFIELD

AMENDED DEVELOPMENT APPLICATION



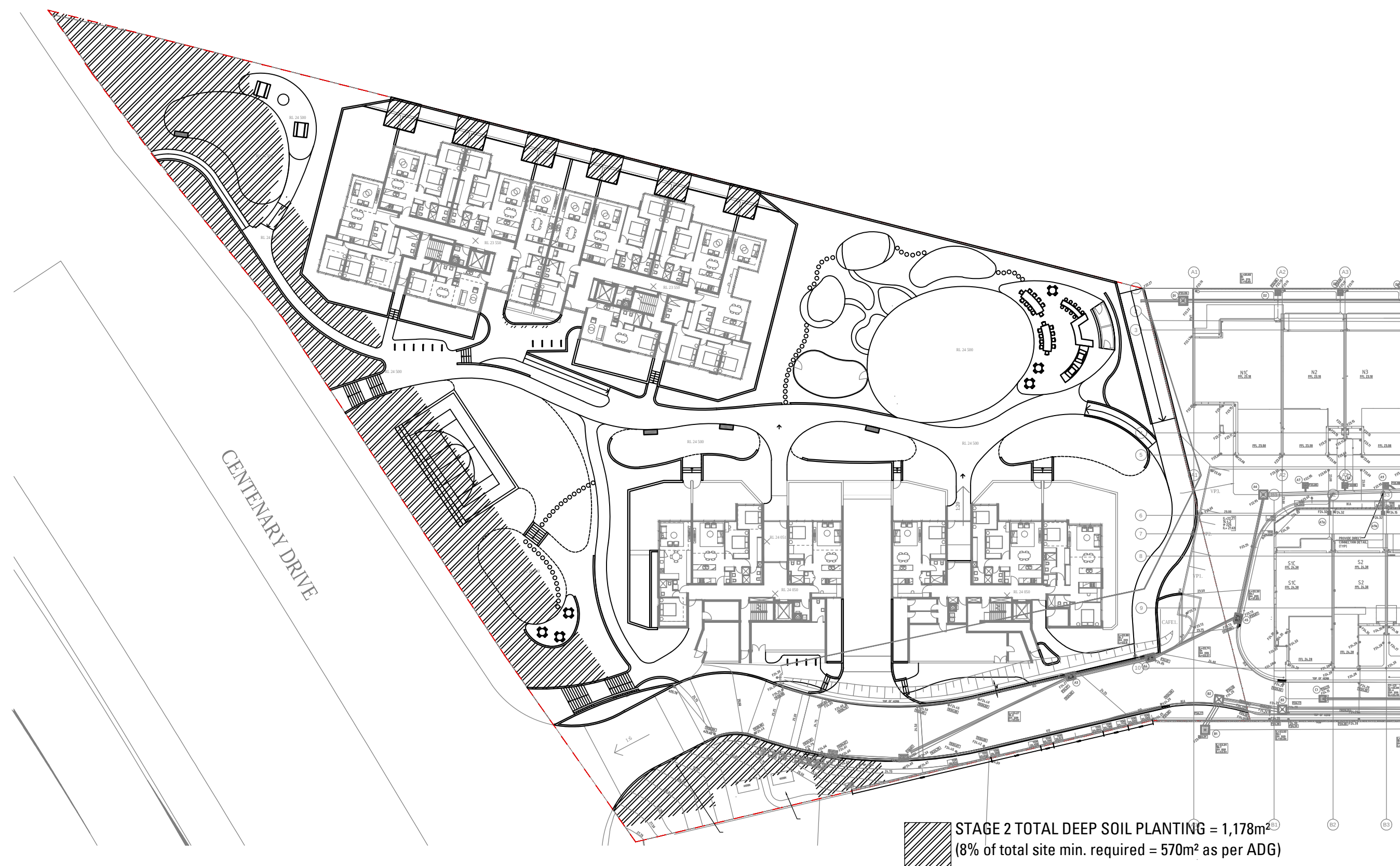
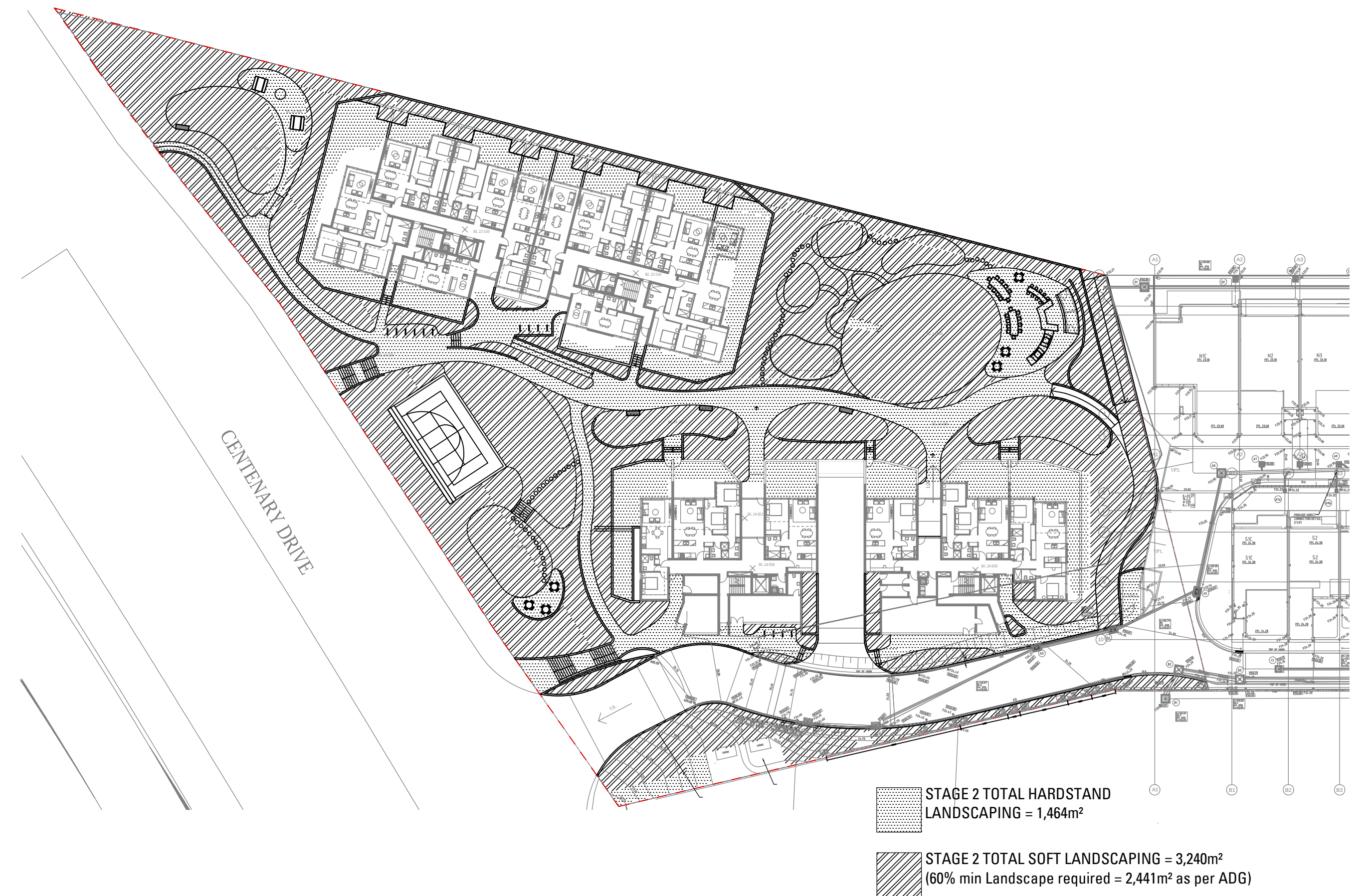
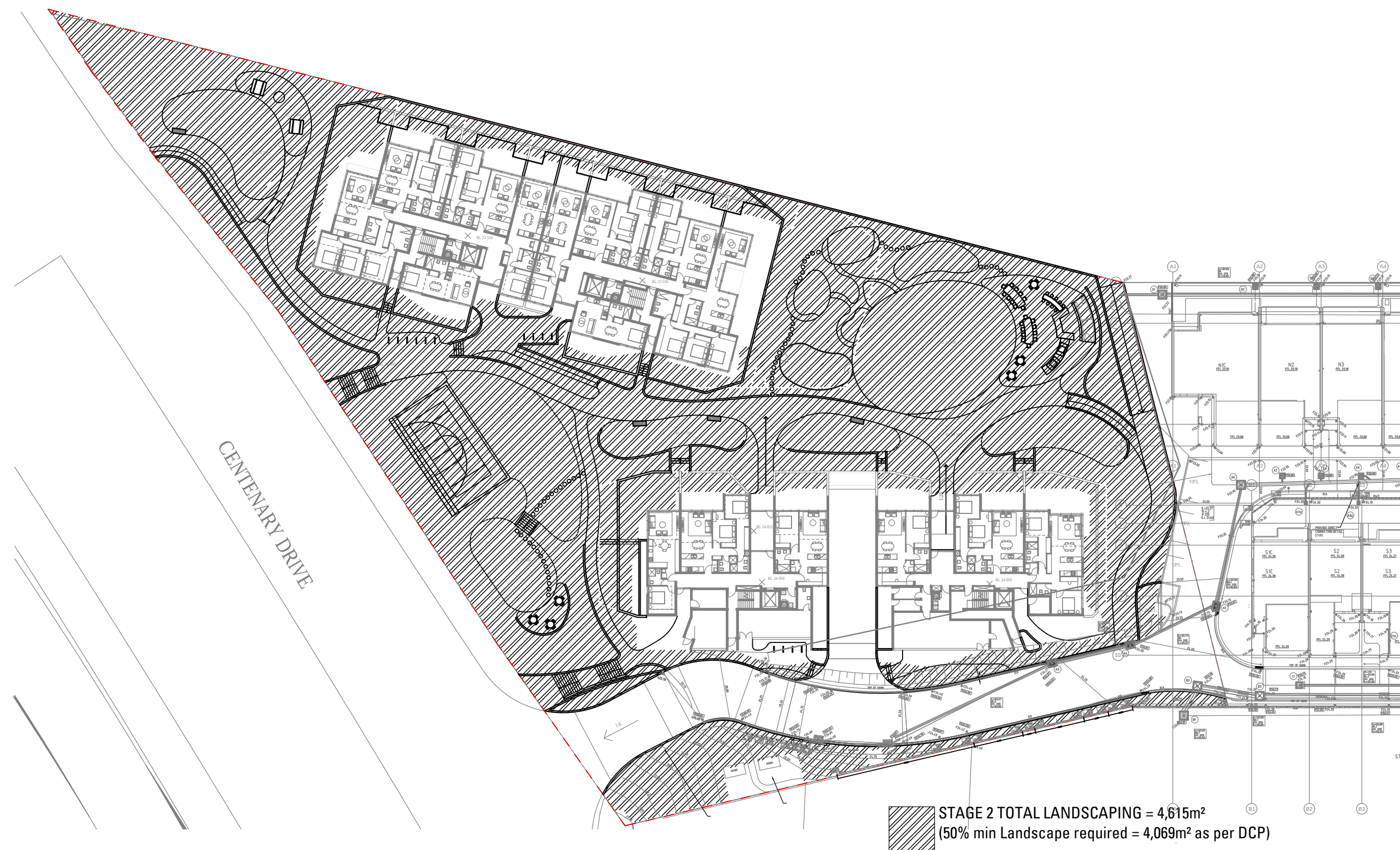
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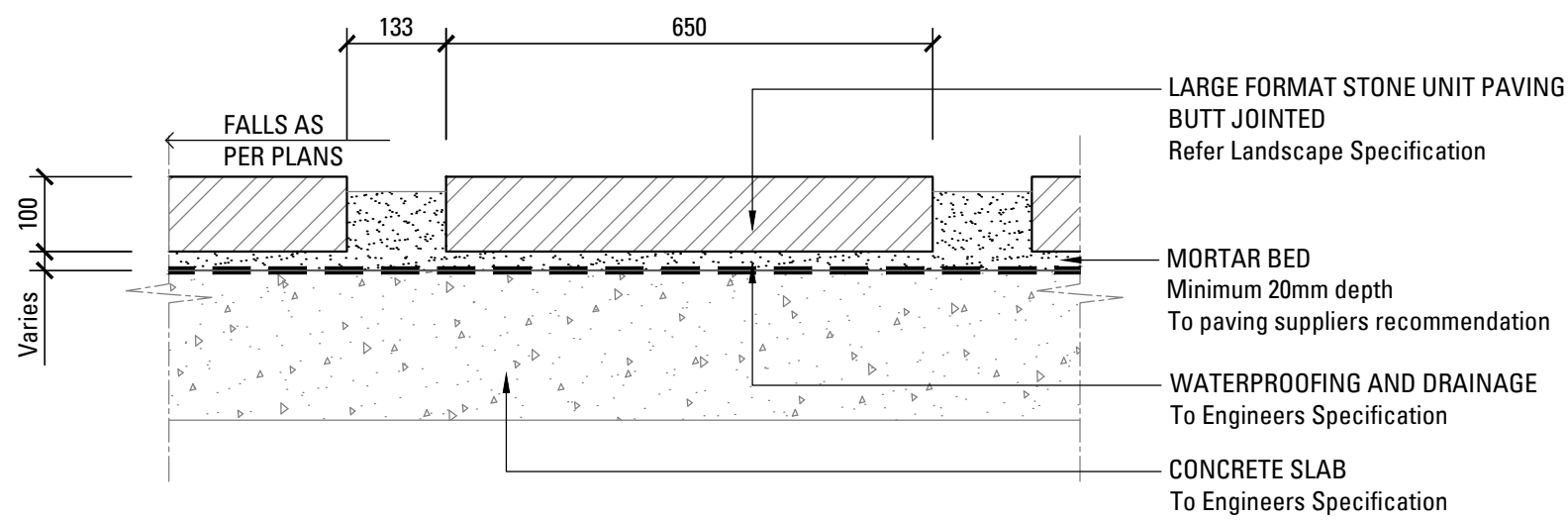
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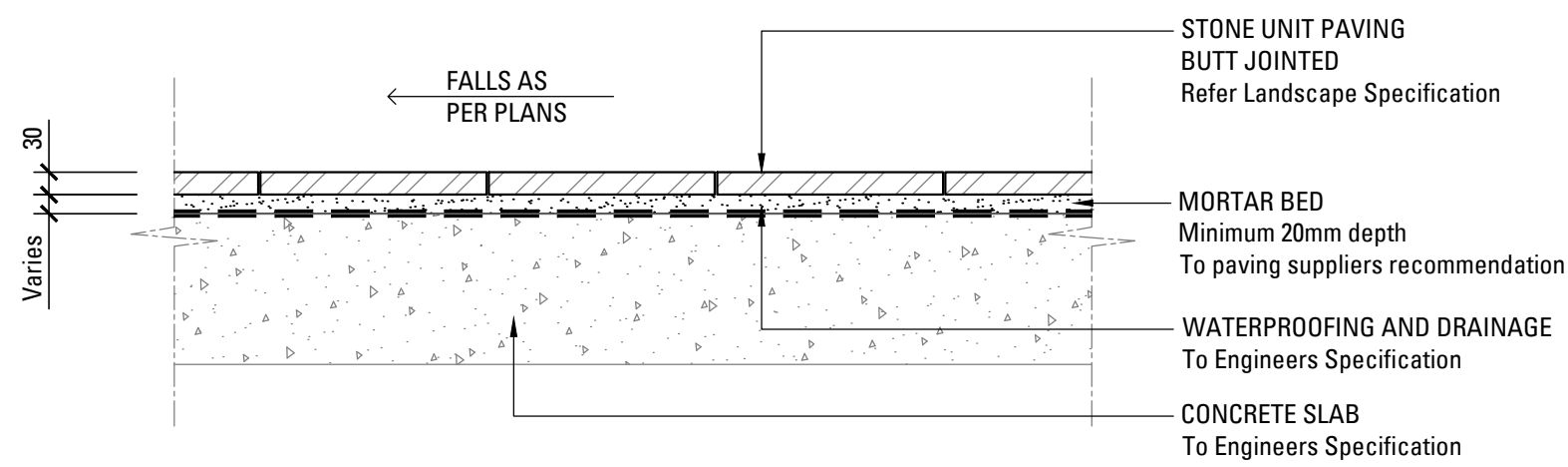


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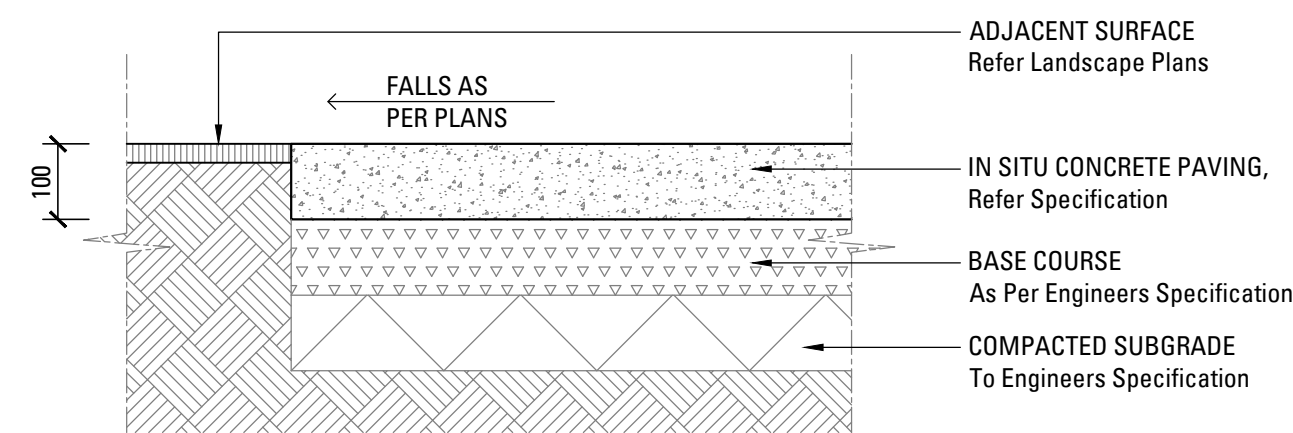




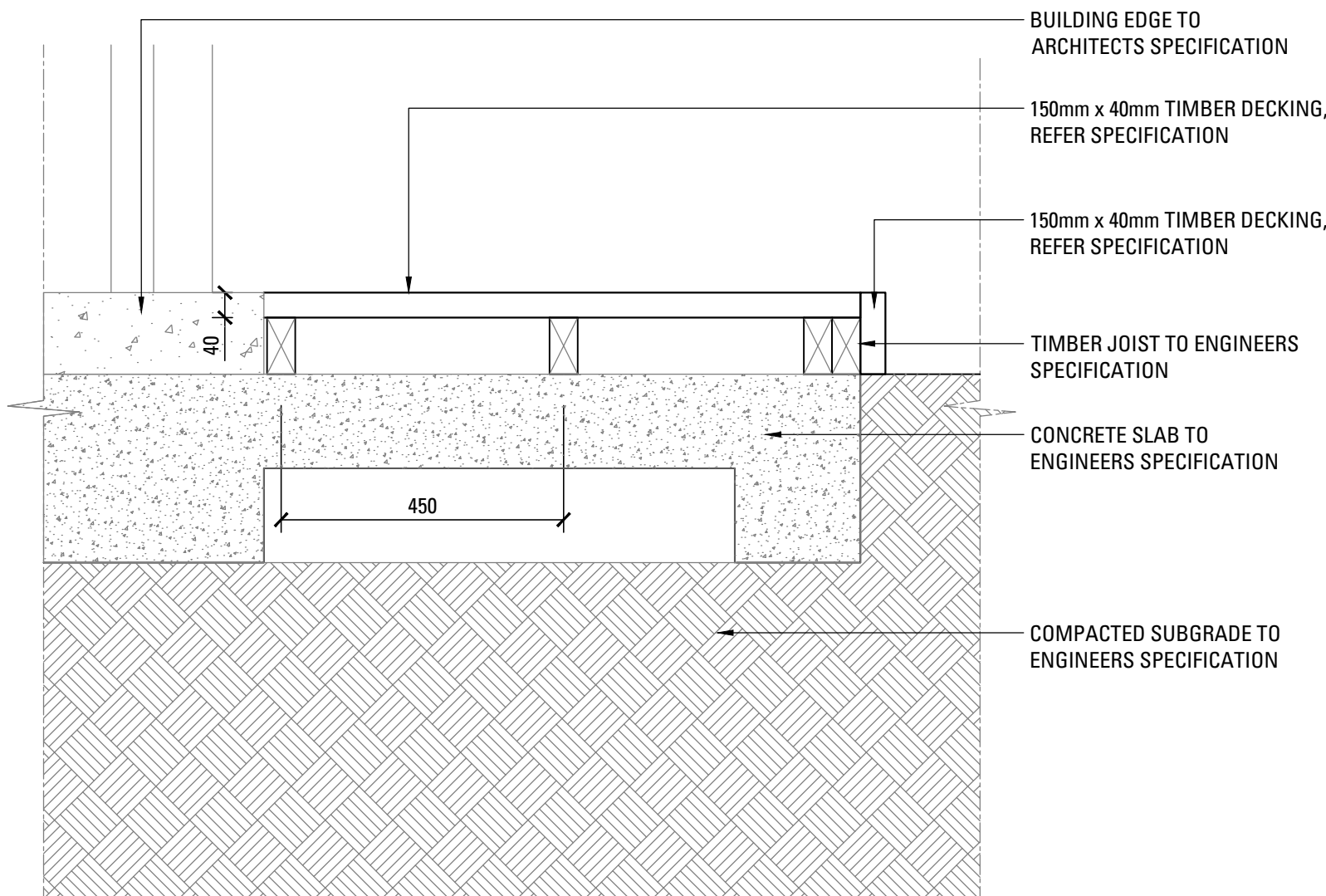
01 PAVING TYPE P1 - PRECAST UNIT PAVERS ON SLAB
SCALE 1:10



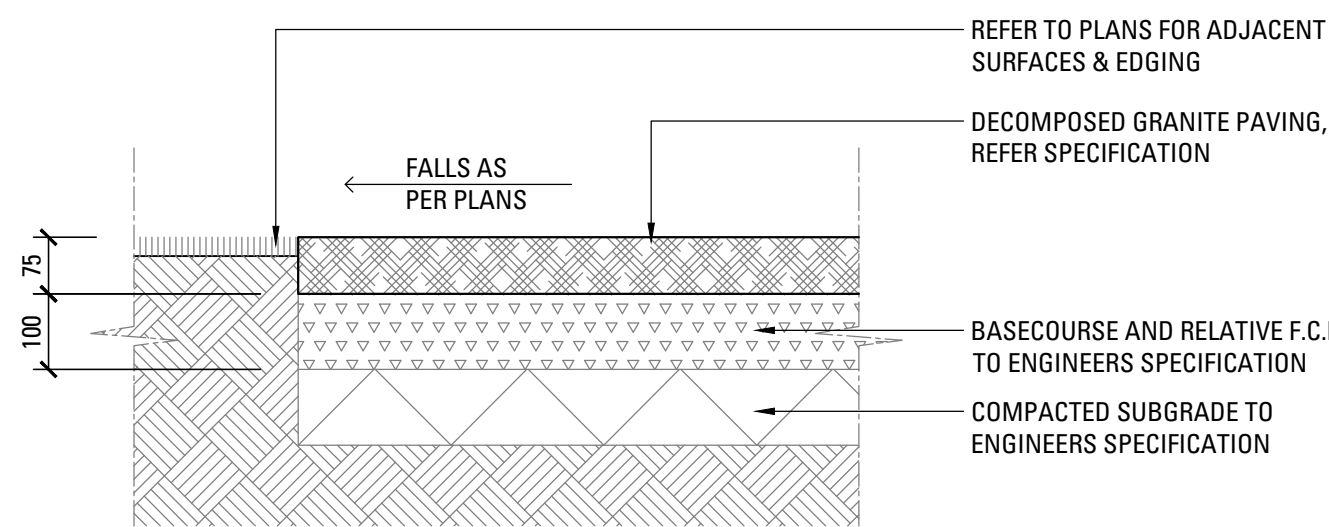
02 PAVING TYPE P2 - STONE UNIT PAVERS ON SLAB (PRIVATE COURTYARDS)
SCALE 1:10



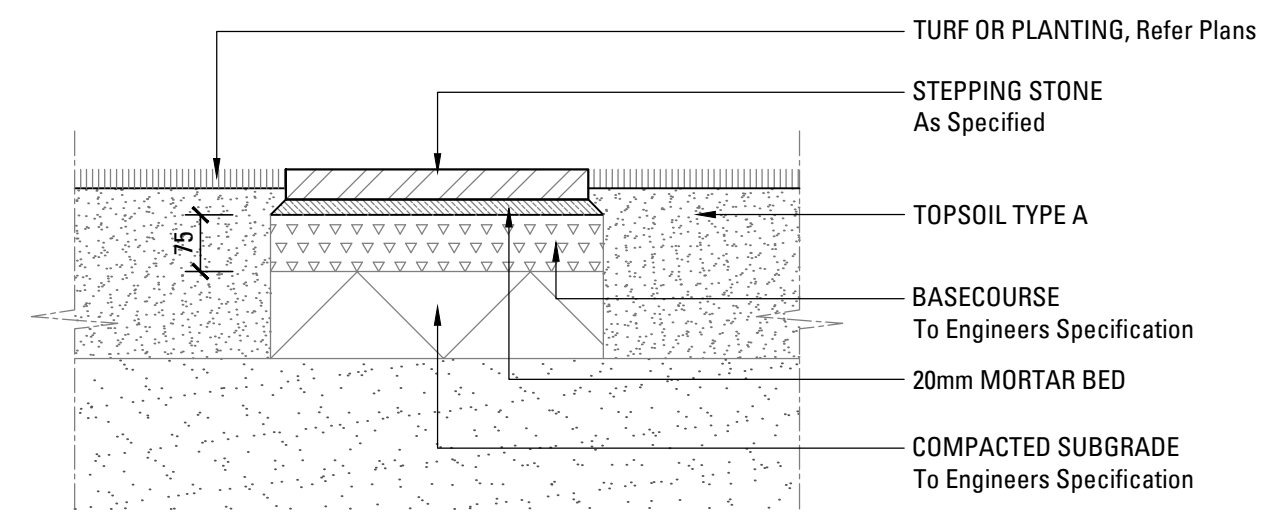
03 PAVING TYPE P3 - INSITU CONCRETE PAVING ON GRADE
SCALE 1:10



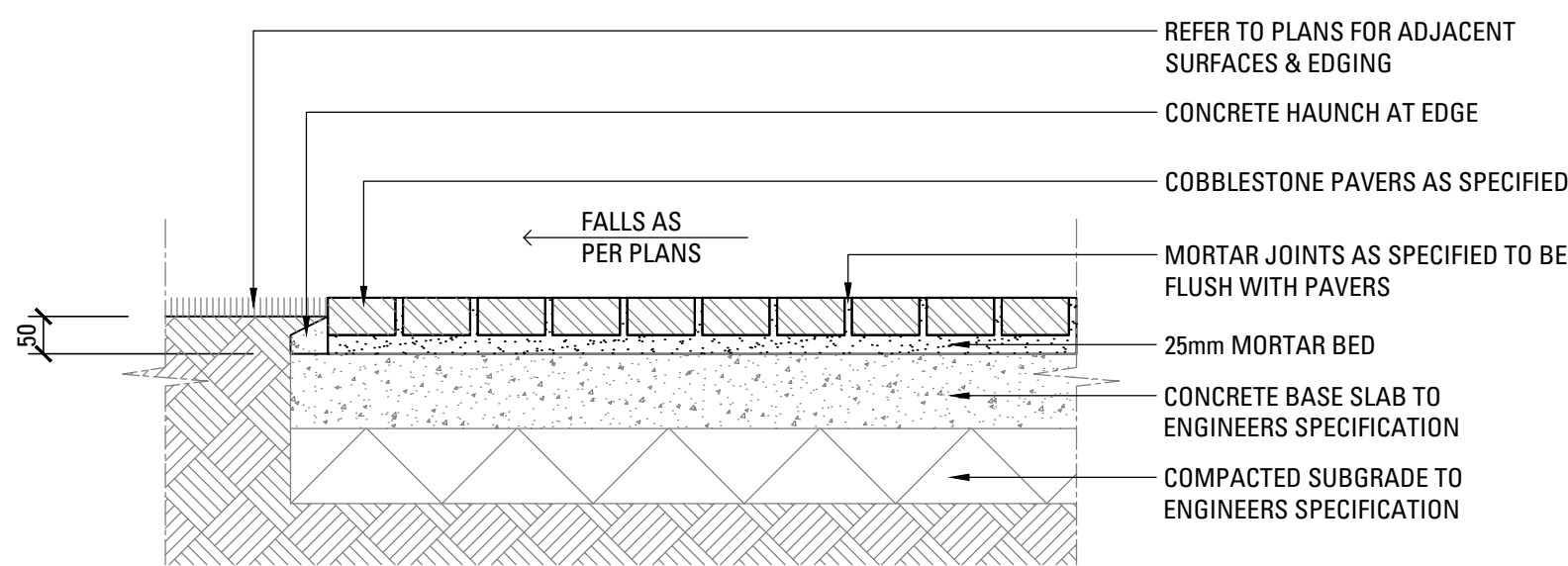
04 PAVING TYPE P4 - TIMBER DECKING
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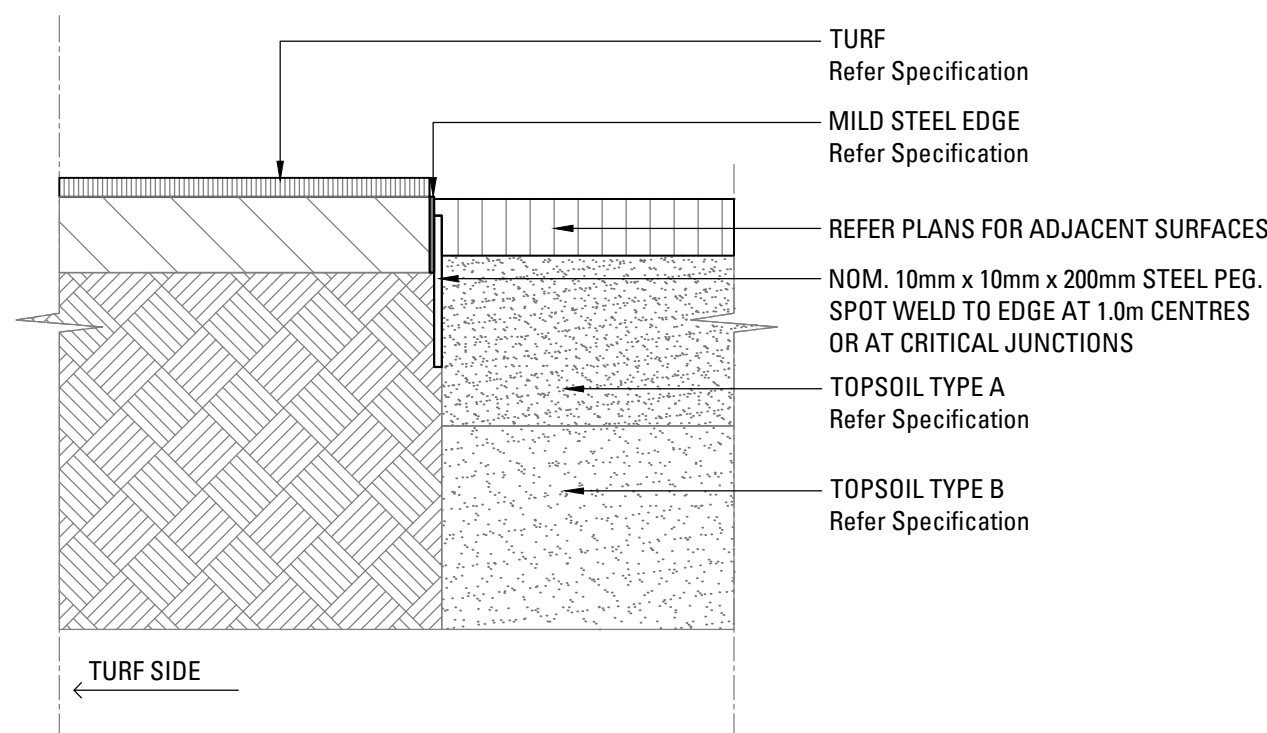
05 PAVING TYPE P5 - DECOMPOSED GRANITE PAVING ON GRADE
SCALE 1:10



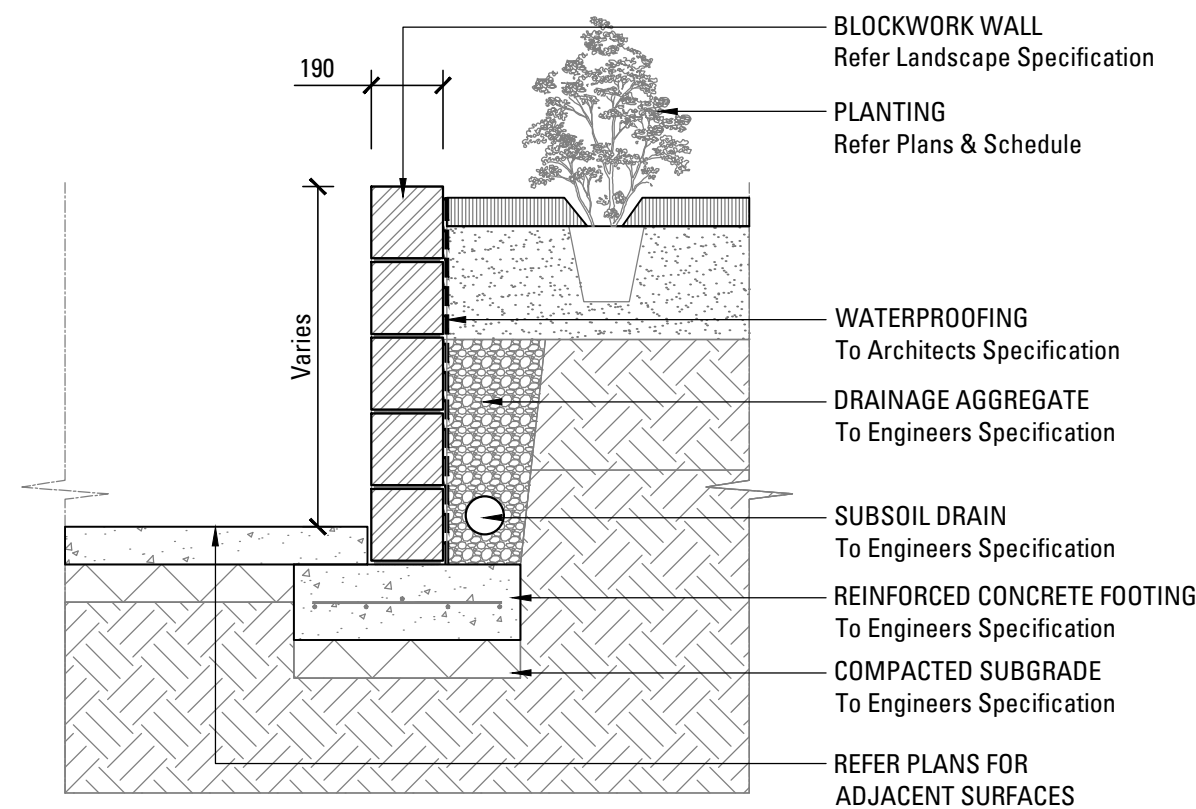
06 PAVING TYPE P6 - STEPPING STONE IN TURF OR GARDEN BED
SCALE 1:10



07 PAVING TYPE P7 - COBBLESTONE PAVERS ON SLAB
SCALE 1:10



08 EDGE TYPE E1 - TYPICAL MILD STEEL EDGE
SCALE 1:10



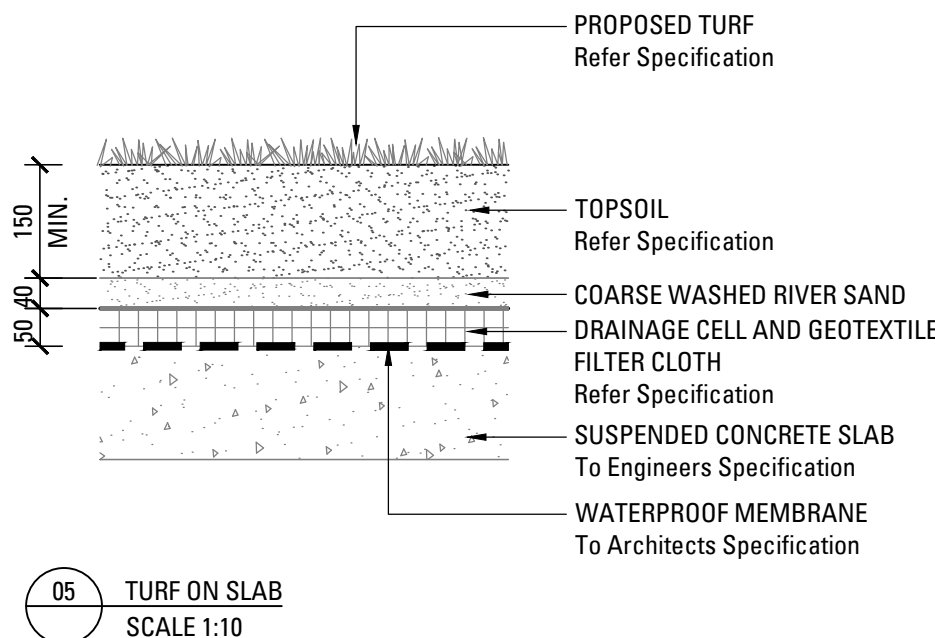
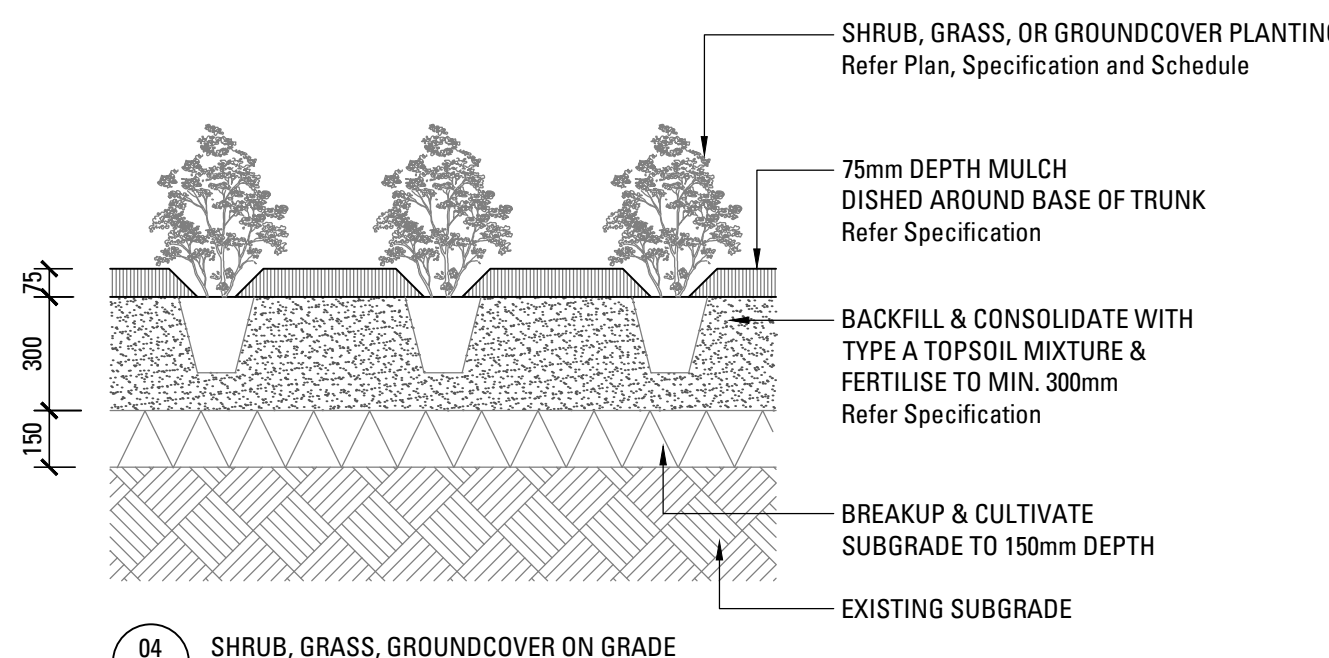
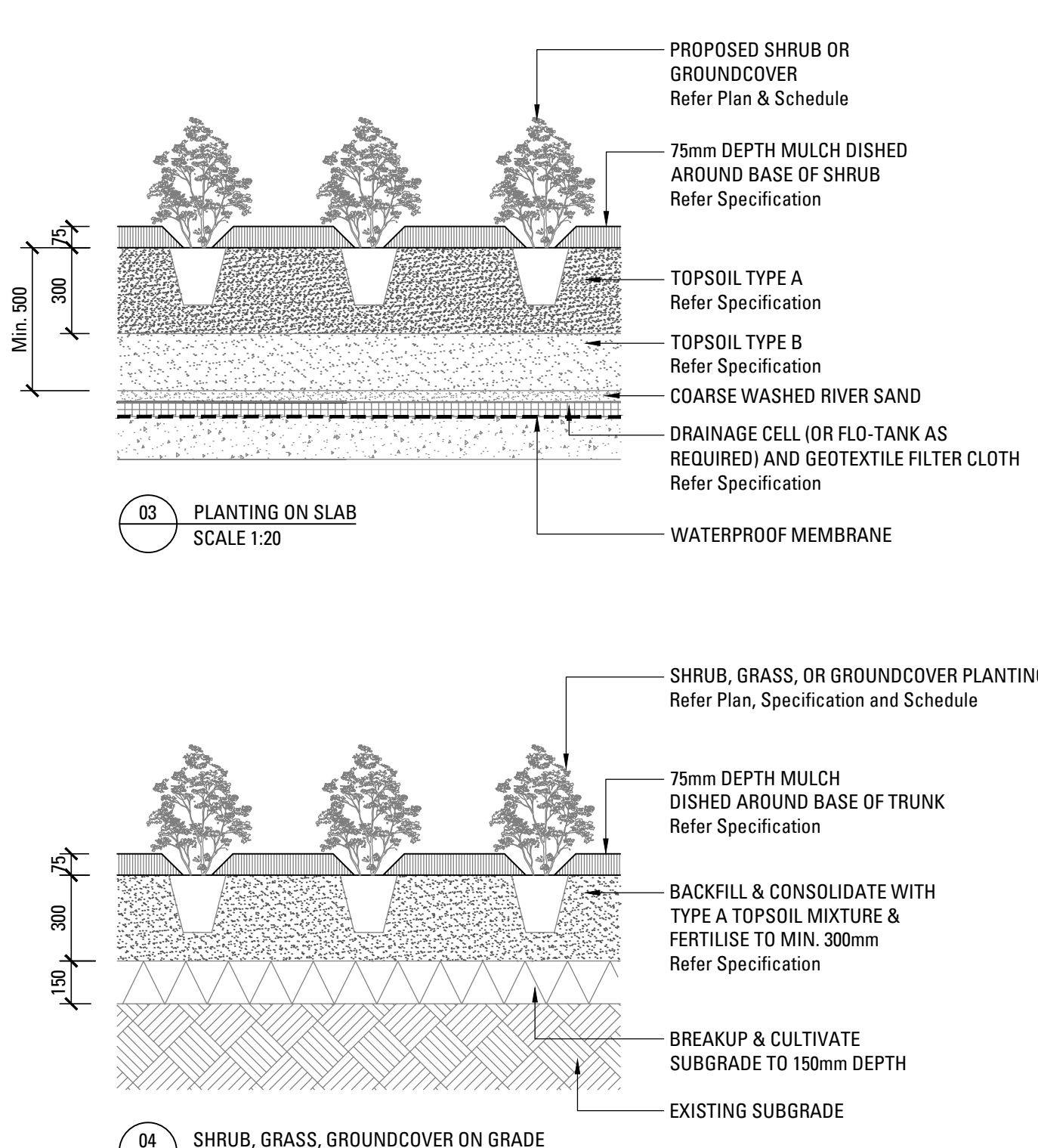
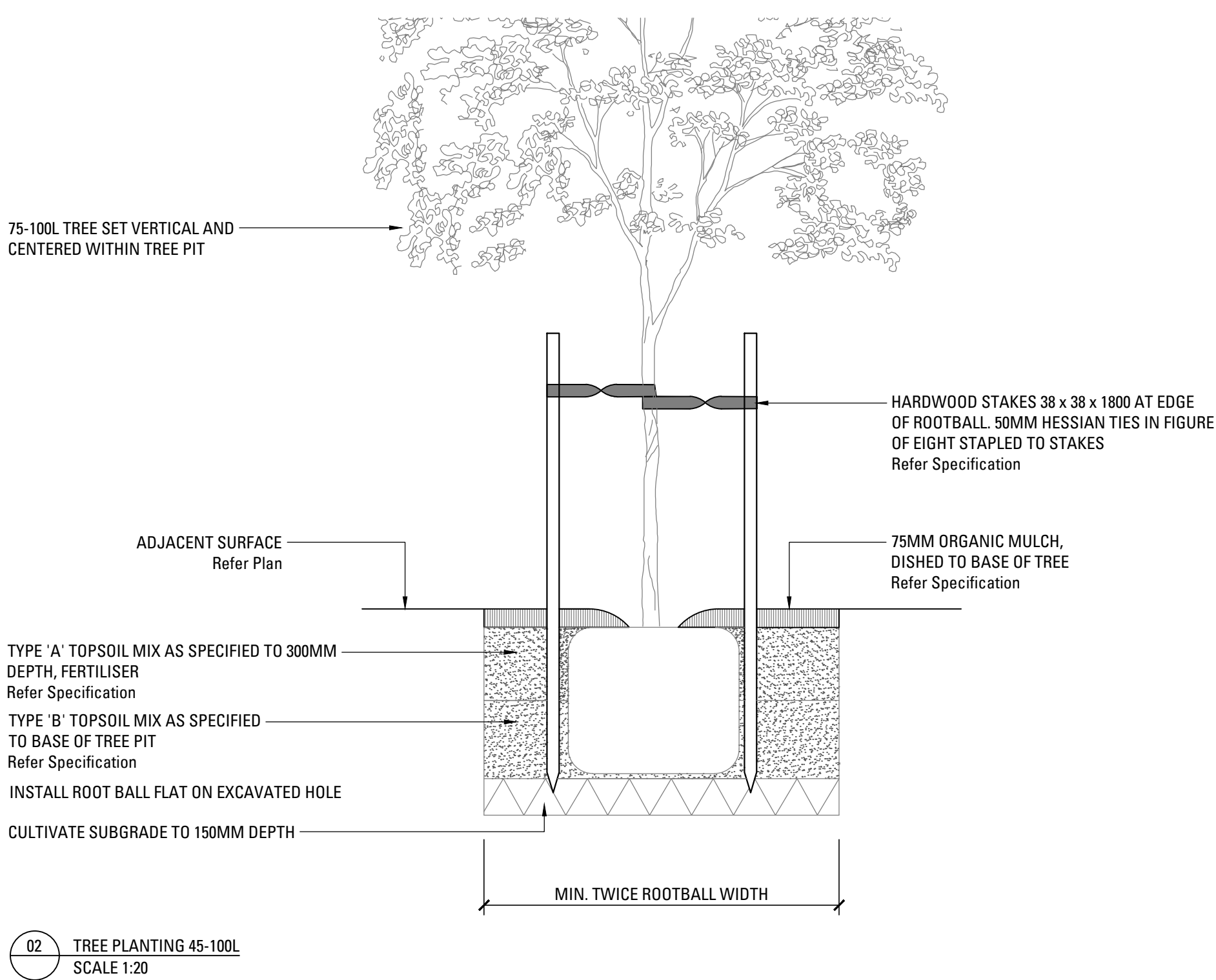
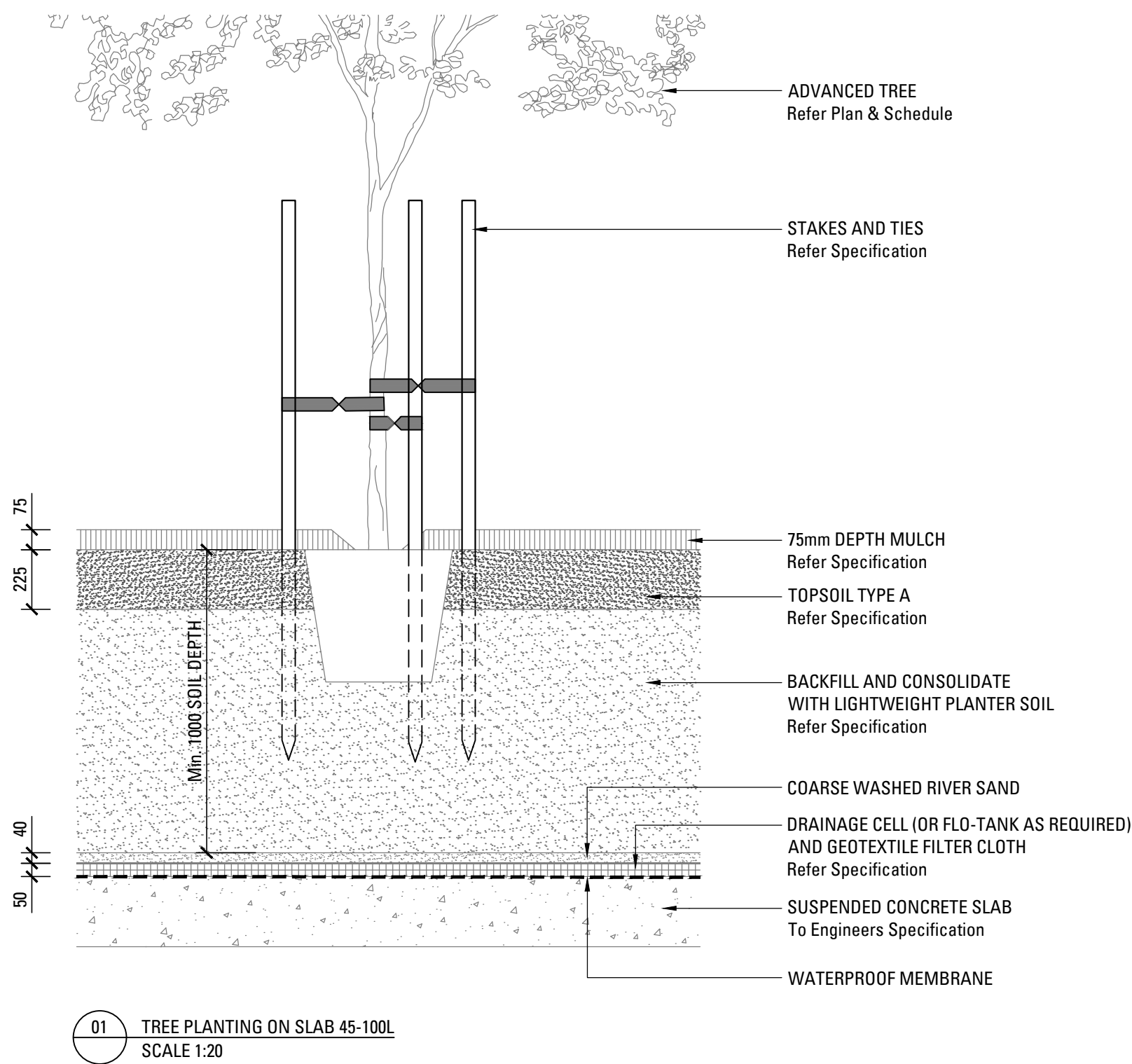
09 TYPICAL DETAIL - BLOCKWORK RETAINING WALL
SCALE 1:20

NOTE: CONTROL JOINTS TO ENGINEERS DETAIL

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17-507 STRATHFIELD APARTMENTS PLANT SCHEDULE					
CODE	BOTANIC NAME	COMMON NAME	MATURE SIZE (h x w) (m)	PROPOSED POT SIZE	
TREES & PALMS					
Ac	<i>Angophora costata</i>	Smooth-Barked Apple	20 x 10	400L	22
Can	<i>Cupaniopsis anacardioides</i>	Tuckeroo	10 x 10	200L	20
Ee	<i>Elaeocarpus eumundii</i>	Quandong	6 x 3	200L	1
Eh	<i>Eucalyptus haemastoma</i>	Scribbly Gum	15 x 10	400L	23
Fa	<i>Fraxinus excelsior 'Aurea'</i>	Golden Ash	10 x 5	200L	0
Gt	<i>Gleditsia tricanthos 'Sunburst'</i>	Honey Locust	15 x 7	200L	2
Pcn	<i>Pyrus nivalis</i>	Snow Pear	11 x 6	200L	10
Ss	<i>Sapium sebiferum</i>	Chinese Tallow	8 x 6	200L	3
SHRUBS & ACCENTS					
Aa	<i>Acmena 'Allyn Magic'</i>	Allyn Magic Lilly Pilly	1 x 1	300mm	552
Ae	<i>Aspidistra elatior</i>	Cast Iron Plant	0.5 x 1	300mm	508
Arc	<i>Arthropodium cirratum</i>	New Zealand fringed lily	1 x 0.5	300mm	135
Asm	<i>Acmena smithii minor</i>	Dwarf Lilly Pilly	3 x 2	300mm	220
De	<i>Dianella caerulea</i>	Flax Lily	0.5 x 0.5	200mm	166
Lbr	<i>Leucophyta brownii</i>	Cushion Bush	1 x 1	300mm	3
Ls	<i>Liriope 'Samantha'</i>	Lilyturf	0.5 x 0.5	200mm	350
Px	<i>Philodendron 'Xanadu'</i>	Xanadu	1 x 1	300mm	186
Pn	<i>Pennisetum 'Narraj'</i>	Swamp Foxtail	0.6 x 0.6	150mm	533
Tf	<i>Teucrium fruticans</i>	Germander	1.5 x 1.5	300mm	120
Wf	<i>Westringia fruticosa</i>	Coastal Rosemary	1.5 x 1.5	300mm	363
Wj	<i>Westringia 'Jervis Gem'</i>	Coastal Rosemary	1 x 1	300mm	51
GRASSES & RUSHES					
Lm	<i>Liriope muscari</i>	Lilyturf	0.5 x 0.5	150mm	1128
Lt	<i>Lomandra 'Tanika'</i>	Mat Rush	1 x 1	150mm	136
Pl	<i>Poa labillardieri 'Eskdale'</i>	Tussock Grass	0.5 x 0.5	150mm	1047
FERNS & CYCADES					
Cc	<i>Cyathea cooperi</i>	Tree Fern	5 x 2	300mm	16
Cr	<i>Cycas revoluta</i>	Cycad	1.5 x 1	300mm	165
Zf	<i>Zamia furfuracea</i>	Cardboard Plant	1.5 x 1.5	200mm	38
GROUNDCOVERS & CLIMBERS					
Hps	<i>Hardenbergia 'Purple Spray'</i>	Purple Spray	0.25 x 1	150mm	177
Sm	<i>Senecio mandraliscae</i>	Blue Chalk Sticks	0.3 x spreading	150mm	154
Tj	<i>Trachelospermum jasminoides</i>	Star Jasmine	0.25 x 1	150mm	721
Vh	<i>Viola hederacea</i>	Native Violet	0.2 x 0.5	150mm	234

LANDSCAPE SPECIFICATION NOTES

SERVICES
BEFORE LANDSCAPE WORK IS COMMENCED THE LANDSCAPE CONTRACTOR IS TO ESTABLISH THE POSITION OF ALL SERVICE LINES AND ENSURE TREE PLANTING IS CARRIED OUT AT LEAST 3 METRES AWAY FROM THESE SERVICES. SERVICE LIDS, VENTS AND HYDRANTS SHALL BE LEFT EXPOSED AND NOT COVERED BY ANY LANDSCAPE FINISHES (TURFING, PAVING, GARDEN BEDS ETC.) FINISH ADJOINING SURFACES FLUSH WITH PIT LIDS.

ABORIST MANAGEMENT OF TREE PROTECTION
A QUALIFIED AND APPROVED ABORIST IS TO BE CONTRACTED TO UNDERTAKE OR MANAGE THE INSTALLATION OF PROTECTIVE FENCING, AND TO UNDERTAKE SUCH MEASURES AS HE DEEMS APPROPRIATE TO PRESERVE THE SUBJECT TREES TO BE RETAINED. THE ARBORIST IS TO BE RETAINED FOR THE ENTIRE CONTRACT PERIOD TO UNDERTAKE ONGOING MANAGEMENT AND REVIEW OF THE TREES.

DRAINAGE CELL AND FILTER FABRIC
FOR ON-SLAB AREAS INSTALL AN APPROVED 'DRAINAGE CELL' PRODUCT TO COMPREHENSIVELY COVER THE BOTTOM OF ALL PLANTERS. OVER DRAINAGE CELL TO ON-SLAB AREAS, A POLYFELT GEOTEXTILE LINING (AS SUPPLIED BY 'POLYFELT TS' OR APPROVED EQUIVALENT) IS TO BE INSTALLED TO COVER THE BOTTOM OF ALL PLANTERS, TURNED UP 300MM AND TAPED TO THE PLANTER SIDES TO ENSURE SOIL MIX DOES NOT ESCAPE INTO DRAINAGE OUTLETS/HOLES. INSTALL MIN. 50MM COARSE RIVER SAND OVER ALL GEOTEXTILE LINING PRIOR TO INSTALLATION OF SOIL MIX.

PLANTING MIXTURE
SHALL BE HOMOGENOUS BLEND OF SOIL AND ADDITIVES IN THE FOLLOWING PROPORTIONS:
EXISTING SITE SOIL IF SUITABLE OR
IMPORTED TOPSOIL 50%
COMPOST 30%
D/W SAND 20%
SOIL TESTING OF EXISTING SITE SOIL IS TO BE UNDERTAKEN TO ASSESS SUITABILITY OF USE AS PLANTING TOPSOIL AND COMPLIANCE WITH AUSTRALIAN STANDARDS.

MULCH APPLICATION
PLACE MULCH TO THE REQUIRED DEPTH, (REFER TO DRAWINGS) CLEAR OF PLANT STEMS, AND RAKE TO AN EVEN SURFACE FINISHING 25MM BELOW ADJOINING LEVELS. ENSURE MULCH IS WATERED IN AND TAMPED DOWN DURING INSTALLATION.

MULCH TYPE
PINE BARK: FROM MATURE TREES, GRADED IN SIZE FROM 15MM TO 30MM, FREE FROM WOOD SLIVERS. DARK BROWN IN COLOUR AND TEXTURE.

COMPOST
SHALL BE WELL ROTTED VEGETATIVE MATERIAL OR ANIMAL MANURE, OR OTHER APPROVED MATERIAL, FREE FROM HARMFUL CHEMICALS, GRASS AND WEED GROWTH AND WITH NEUTRAL PH. PROVIDE A CERTIFICATE OF PROOF OF PH UPON REQUEST.

PLANT MATERIAL
ALL PLANTS SUPPLIED ARE TO CONFORM WITH THOSE SPECIES LISTED IN THE PLANT SCHEDULE ON THE DRAWINGS. GENERALLY PLANTS SHALL BE VIGOROUS, WELL ESTABLISHED, HARDENED OFF, OF GOOD FORM CONSISTENT WITH SPECIES OR VARIETY, NOT SOFT OR FORCED, FREE FROM DISEASE OR INSECT PESTS WITH LARGE HEALTHY ROOT SYSTEMS AND NO EVIDENCE OF HAVING BEEN RESTRICTED OR DAMAGED. TREES SHALL HAVE A LEADING SHOOT. IMMEDIATELY REJECT DRIED OUT, DAMAGED OR UNHEALTHY PLANT MATERIAL BEFORE PLANTING. ALL STOCK IS TO BE CONTAINER GROWN FOR A MINIMUM OF SIX (6) MONTHS PRIOR TO DELIVERY TO SITE

FERTILISER MASS PLANTING AREAS:
FERTILISER SHALL BE 'NUTRICOTE' OR APPROVED EQUIVALENT IN GRANULE FORM INTENDED FOR SLOW RELEASE OF PLANT NUTRIENTS OVER A PERIOD OF APPROXIMATELY NINE MONTHS. THOROUGHLY MIX FERTILISER WITH PLANTING MIXTURE AT THE RECOMMENDED RATE, PRIOR TO INSTALLING PLANTS.

TURF
SHALL BE SIR WALTER BUFFALO. SHIRLEYS NO. 17 OR APPROVED EQUAL LAWN FOOD SHALL BE THOROUGHLY MIXED INTO THE TOPSOIL PRIOR TO PLACING TURF.

TREES IN GRASS AND SUPER ADVANCED TREES:
PELLETS SHALL BE IN THE FORM INTENDED TO UNIFORMLY RELEASE PLANT FOOD ELEMENTS FOR A PERIOD OF APPROXIMATELY NINE MONTHS EQUAL TO SHIRLEYS KOKEI PELLETS, ANALYSIS 6.3:1.8:2.9. KOKEI PELLETS SHALL BE PLACED AT THE TIME OF PLANTING TO THE BASE OF THE PLANT, 50MM MINIMUM FROM THE ROOT BALL AT A RATE OF TWO PELLETS PER 300MM OF TOP GROWTH TO A MAXIMUM OF 8 PELLETS PER TREE.

STAKING AND TYING
STAKES SHALL BE STRAIGHT HARDWOOD, FREE FROM KNOTS AND TWISTS, POINTED AT ONE END AND

SIZED ACCORDING TO SIZE

OF PLANTS TO BE STAKED.
A. 5-15 LITRE SIZE PLANT 1X(1200X25X25MM)
B. 35-75 LITRE SIZE PLANT 2X(1500X38X38MM)
C. 100-GREATER THAN 200LITRE 3X(1800X50X50MM)
TIES SHALL BE 50MM WIDE HESSIAN WEBBING OR APPROVED EQUIVALENT NAILED OR STAPLED TO STAKE. DRIVE STAKES A MINIMUM ONE THIRD OF THEIR LENGTH, AVOIDING DAMAGE TO THE ROOT SYSTEM, ON THE WINDWARD SIDE OF THE PLANT.

IRRIGATION SYSTEM
SUPPLY AN AUTOMATIC WATERING SYSTEM USING 'TORO IRRIGATION SYSTEM' OR SIMILAR APPROVED, WITH MICRO-JET SPRINKLER HEADS AND LOW DENSITY, RUBBER MODIFIED POLYPROPYLENE RETICULATION, TO INCLUDE FILTERS, BENDS JUNCTIONS, ENDS AND OTHER ANCILLARY EQUIPMENT. THE LANDSCAPER SHALL NOMINATE HIS SOURCE OF SUPPLY FOR THE WATERING SYSTEM AND OBTAIN APPROVAL FROM THE SUPERINTENDENT BEFORE PLACING ORDERS FOR EQUIPMENT OR SUPPLY.

A SCHEMATIC PLAN OF THE PROPOSED IRRIGATION SYSTEM IS TO BE PREPARED BY THE CONTRACTOR, SHOWING SOLENOIDS, PIPE DIAMETERS, AND ALL NOZZLE AND TRICKLE ATTACHMENT TYPES (INCLUDING SPRAY/HEAD ANGLE), FOR REVIEW BY THE SUPERINTENDENT PRIOR TO INSTALLATION

THE CONTRACTOR IS TO LIASE WITH THE HYDRAULIC ENGINEER AND COUNCIL AS NECESSARY, TO ENSURE THE THE IRRIGATION SYSTEM CONFORMS WITH ALL THE COUNCIL AND WATER BOARD CODES AND REQUIREMENTS.

PROVIDE AN AUTOMATIC CONTROLLER THAT PROVIDES FOR TWO WEEK SCHEDULING AND HOURLY MULTI-CYCLE OPERATION. THE CONTROLLER SHALL MANUAL OVERRIDE. PROGRAMMING SHALL BE UNDERTAKEN BY THE CONTRACTOR WHO SHALL ADVISE ON THE OPERATION OF THE SYSTEM.

PROVISION OF SECURE HOUSING FOR THE AUTOMATIC IRRIGATION CONTROLLER TO BE LOCATED IN ASSOCIATION WITH THE LANDSCAPE CONTRACTOR AND LOCATION CONFIRMED BY THE SUPERINTENDENT. WIRING TO CONNECT REMOTE SOLENOID LOCATIONS IS TO BE PROVIDED. THE CONTROLLER SHALL BE LOCATED IN A DRY PLACE, PROTECTED FROM THE WEATHER, AND ALL CABLE CONNECTIONS SHALL BE MADE WITH WATERPROOF CONNECTORS.

WATER SUPPLY POINTS TO BE SUPPLIED BY BUILDER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE AND GUARANTEE SATISFACTORY OPERATION OF THE IRRIGATION SYSTEM.

AFTER THE SYSTEM HAS BEEN INSTALLED TO THE SATISFACTION OF THE SUPERINTENDENT, THE INSTALLATION SHALL BE TESTED UNDER KNOWN WORKING CONDITIONS. ACCEPTANCE OF THE INSTALLED PLANT AND EQUIPMENT SHALL BE SUBJECT TO THESE BEING SATISFACTORY.

TREATED PINE TIMBER EDGING
TIMBER EDGE: 100 X 25MM CCA TREATED RADIATA PINE TIMBER STAKES: 50 X 50 X 500MM CCA TREATED RADIATA PINE-SHARPENED AT ONE END. INSTALL IN LOCATIONS SHOWN ON THE DRAWINGS FLUSH TO FINISHED SURFACE LEVELS.

TURF
TURF ALL LANDSCAPE AREAS AS SHOWN ON THE LANDSCAPE DRAWINGS. TURF IS TO HAVE AN EVEN THICKNESS OF NOT LESS THAN 25MM. OBTAIN TURF FROM AN APPROVED GROWER. FURNISH A WARRANTY FROM THE GROWER THAT THE TURF IS FREE FROM WEEDS AND OTHER FOREIGN MATTER. DELIVER TURF TO THE SITE WITHIN 24 HOURS OF BEING CUT, AND LAY IT WITHIN 24 HOURS OF BEING DELIVERED.

TO PREPARE GRADED AREAS TO RECEIVE TURF, EXCAVATE THE AREA AND CULTIVATE SO AS TO ALLOW FOR IMPORTING OF 100MM OF TURF UNDERLAY SOIL. REMOVE ALL STONES OVER 50MM Ø AND REMOVE ALL WEEDS AND FOREIGN MATTER. SPREAD SOIL MIX A.B.S TO A DEPTH OF 100MM AND GRADE TO APPROPRIATE LEVELS TO ACHIEVE GENERAL EVEN GRADES TO DRAINAGE OUTLETS INSTALLED BY OTHERS.

LAY THE TURF ALONG THE LAND CONTOURS WITH STAGGERED, CLOSE BUTTED JOINTS, SO THAT THE FINISHED TURF SURFACE IS FLUSH WITH ADJACENT FINISHED SURFACES OF PAVING AND THE LIKE. AS SOON AS PRACTICABLE AFTER LAYING, ROLL THE TURF WITH A ROLLER WEIGHING NOT MORE THAN 90KG PER METRE OF WIDTH FOR SANDY OR LIGHT SOILS.

WATER AS NECESSARY TO KEEP THE SOIL MOIST TO A DEPTH OF 100MM. PROTECT NEWLY TURFED AREAS AGAINST TRAFFIC UNTIL GRASS IS ESTABLISHED. FERTILISE TWO WEEKS AFTER LAYING FERTILISE A.B.S

'TOP DRESS' THE TURF WHEN IT IS ESTABLISHED TO A DEPTH OF 10MM WITH COARSE WASHED RIVER SAND. RUB THE DRESSING WELL INTO THE JOINTS AND CORRECT ANY UNEVENNESS IN THE TURF SURFACES.

LANDSCAPE MAINTENANCE PROGRAM

MAINTENANCE SHALL MEAN THE CARE AND MAINTENANCE OF THE LANDSCAPE WORKS BY ACCEPTED HORTICULTURAL PRACTICE AS RECTIFYING ANY DEFECTS THAT BECOME APPARENT IN THE LANDSCAPE WORKS UNDER NORMAL USE. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, WATERING, MOWING, FERTILISING, RESEEDING, RETURFING, WEEDING, PEST AND DISEASE CONTROL, STAKING AND TYING, REPLANTING, CULTIVATION, PRUNING, AERATING, RENOVATING, TOP DRESSING, MAINTAINING THE SITE IN A NEAT AND TIDY CONDITION AS FOLLOWS:-

GENERAL
THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE WORKS FOR THE TERM OF THE MAINTENANCE (OR PLANT ESTABLISHMENT) PERIOD TO THE SATISFACTION OF THE COUNCIL. THE LANDSCAPE CONTRACTOR SHALL ATTEND TO THE SITE ON A WEEKLY BASIS. THE MAINTENANCE PERIOD SHALL COMMENCE AT PRACTICAL COMPLETION AND CONTINUE FOR A PERIOD OF TWENTY SIX (26) WEEKS.

WATERING
GRASS, TREES AND GARDEN AREAS SHALL BE WATERED REGULARLY SO AS TO ENSURE CONTINUOUS HEALTHY GROWTH.

RUBBISH REMOVAL
DURING THE TERM OF THE MAINTENANCE PERIOD THE LANDSCAPE CONTRACTOR SHALL REMOVE RUBBISH THAT MAY OCCUR AND REOCCUR THROUGHOUT THE MAINTENANCE PERIOD. THIS WORK SHALL BE CARRIED OUT REGULARLY SO THAT AT WEEKLY INTERVALS THE AREA MAY BE OBSERVED IN A COMPLETELY CLEAN AND TIDY CONDITION.

REPLACEMENTS
THE LANDSCAPE CONTRACTOR SHALL REPLACE ALL PLANTS THAT ARE MISSING, UNHEALTHY OR DEAD AT THE LANDSCAPE CONTRACTOR'S COST. REPLACEMENTS SHALL BE OF THE SAME SIZE, QUALITY AND SPECIES AS THE PLANT THAT HAS FAILED UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENTS SHALL BE MADE ON A CONTINUING BASIS NOT EXCEEDING TWO (2) WEEKS AFTER THE PLANT HAS DIED OR IS SEEN TO BE MISSING.

STAKES AND TIES
THE LANDSCAPE CONTRACTOR SHALL REPLACE OR ADJUST PLANT STAKES, AND TREE GUARDS AS NECESSARY OR AS DIRECTED BY THE LANDSCAPE ARCHITECT. REMOVE STAKES AND TIES AT THE END OF THE MAINTENANCE PERIOD IF SO DIRECTED.

PRUNING
TREES AND SHRUBS SHALL BE PRUNED AS DIRECTED BY THE LANDSCAPE ARCHITECT. PRUNING WILL BE DIRECTED AT THE MAINTENANCE OF THE DENSE FOLIAGE OR MISCELLANEOUS PRUNING AND BENEFICIAL TO THE CONDITION OF THE PLANTS. ANY DAMAGED GROWTH SHALL BE PRUNED. ALL PRUNED MATERIAL SHALL BE REMOVED FROM THE SITE.

MULCHED SURFACES
ALL MULCHED SURFACES SHALL BE MAINTAINED IN A CLEAN AND TIDY CONDITION AND BE REINSTATED IF NECESSARY TO ENSURE THAT A DEPTH OF 75MM IS MAINTAINED. ENSURE MULCH IS KEPT CLEAR OF PLANT STEMS AT ALL TIMES.

PEST AND DISEASED CONTROL
THE LANDSCAPE CONTRACTOR SHALL SPRAY AGAINST INSECT AND FUNGUS INFESTATION WITH ALL SPRAYING TO BE CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. REPORT ALL INSTANCES OF PESTS AND DISEASES (IMMEDIATELY THAT THEY ARE DETECTED) TO THE LANDSCAPE ARCHITECT.

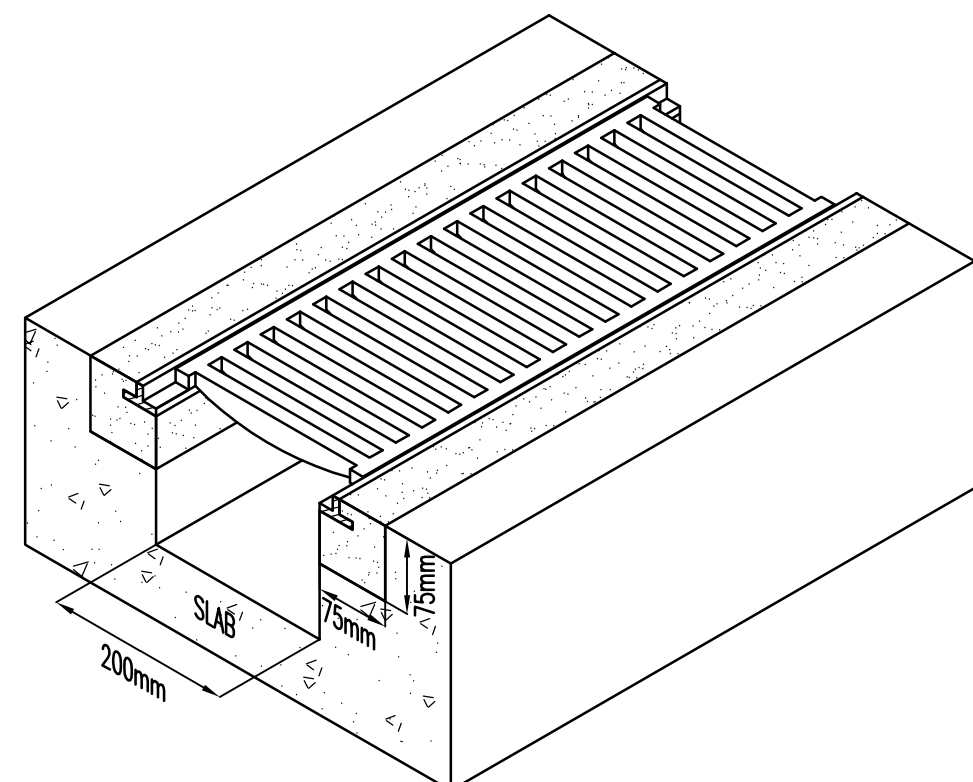
GRASS AND TURF AREAS
THE LANDSCAPE CONTRACTOR SHALL MAINTAIN ALL GRASS AND TURF AREAS BY WATERING, WEEDING, DRESSING, ROLLING, MOWING, TRIMMING OR OTHER OPERATIONS AS NECESSARY. SEED AND TURF SPECIES SHALL BE THE SAME AS THE ORIGINAL SPECIFIED MIXTURE. GRASS AND TURF AREAS SHALL BE SPRAYED WITH APPROVED SELECTIVE HERBICIDE AGAINST BROAD LEAFED WEEDS AS REQUIRED BY THE LANDSCAPE ARCHITECT AND IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. GRASS AND TURF AREAS SHALL BE FERTILISED ONCE A YEAR IN AUTUMN WITH 'DYNAMIC LIFTER' FOR LAWNS AT A RATE OF 20KG PER 100M2. FERTILISER SHALL BE WATERED IN IMMEDIATELY AFTER APPLICATION. IRREGULARITIES IN THE GRASS AND TURF SHALL BE WATERED IN IMMEDIATELY AFTER APPLICATION. GRASS AND TURF AREAS SHALL BE KEPT MOWN TO MAINTAIN A HEALTHY AND VIGOROUS SWARD. MOWING HEIGHT: 30-50MM.

WEED ERADICATION
ERADICATE WEEDS BY ENVIRONMENTALLY ACCEPTABLE METHODS USING A NON-RESIDUAL GLYPHOSATE HERBICIDE (EG. 'ROUNDUP') IN ANY OF ITS REGISTERED FORMULAE, AT THE RECOMMENDED MAXIMUM RATE. REGULARLY REMOVE BY HAND, WEED GROWTH THAT MAY OCCUR OR RECUR THROUGHOUT GRASSED, PLANTED AND MULCHED AREAS. REMOVE WEED GROWTH FROM AN AREA 750MM DIAMETER AROUND THE BASE OF TREES IN GRASSED AREAS. CONTINUE ERADICATION THROUGHOUT THE COURSE OF THE WORKS AND DURING THE MAINTENANCE PERIOD.

SOIL SUBSIDENCE
ANY SOIL SUBSIDENCE OR EROSION WHICH MAY OCCUR AFTER THE SOIL FILLING AND PREPARATION OPERATIONS SHALL BE MADE GOOD BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE CLIENT.

PROPOSED RESIDENTIAL DEVELOPMENT
84 CENTENARY DRIVE STRATHFIELD NSW 2135

DEPTH TO INVERT OF OUTLET		MINIMUM INTERNAL DIMENSIONS mm		
		RECTANGULAR		CIRCULAR
		WIDTH	DEPTH	DIAMETER
	≤600	450	450	600
>600	≤900	600	600	900
>900	<1200	600	900	1000
>1200		900	900	1000



TRENCH GRATE WITH FRAME DETAIL
SCALE N.T.S

DRAWING LIST

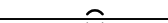
HYDRAULIC SERVICES

SHEET	TITLE	SCALE
H000	DRAWING SCHEDULE & LEGEND	AS SHOWN
H101	BASEMENT LEVEL 2 FLOOR PLAN	1:200
H102	BASEMENT LEVEL 1 FLOOR PLAN	1:200
H103	GROUND FLOOR PLAN	1:200
H104	LEVEL 1 FLOOR PLAN	1:200
H105	LEVELS 2-4 FLOOR PLAN	1:200
H106	LEVELS 5-6 FLOOR PLAN	1:200
H107	LEVEL 7 FLOOR PLAN	1:200
H108	LEVEL 8 FLOOR PLAN	1:200
H109	LEVEL 9 FLOOR PLAN	1:200
H110	LEVEL 10 FLOOR PLAN	1:200
H111	ROOF PLAN	1:200
SW001	SITE SOIL & WATER MANAGEMENT PLAN	1:200

LEGEND

—xsw—	EX. STORMWATER DRAINAGE
—sw—	STORMWATER DRAINAGE (SW)
—rm—	RISING MAIN (RM)
—/—/—	AGRICULTURAL DRAIN (AG)

SYMBOLS

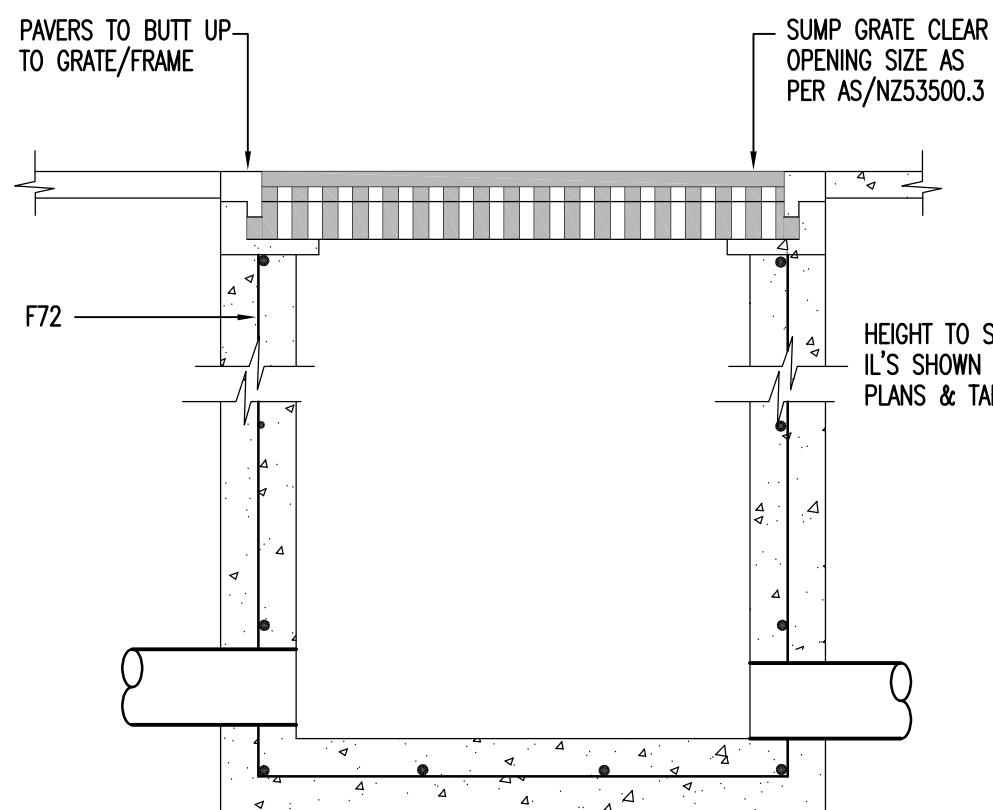
	THROUGH DROPPER / RISER
	BEND DOWN
	TEE UP
	TEE DOWN
	SUMP
	OVERLAND FLOW PATH
	REDUCER
	RISER SERVICE NAME SIZE DROPPER
	FLOW DIRECTION

ABBREVIATIONS

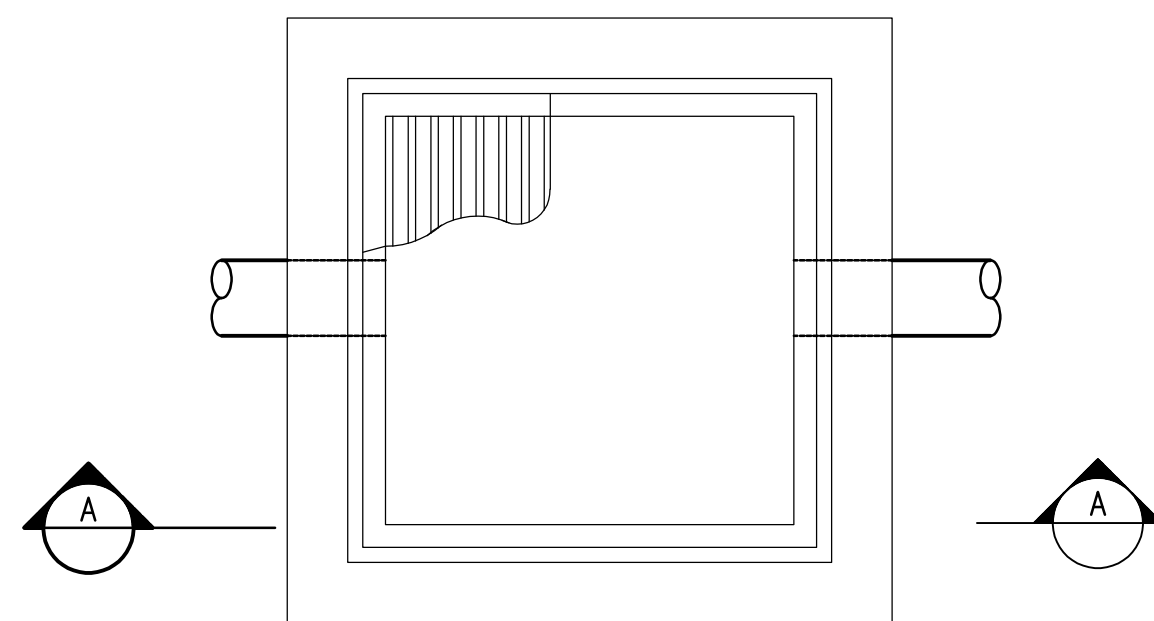
BD	BALCONY DRAIN
CO	CLEAR OUT
DP	DOWNPIPE
ED	ELEVATED DRAINAGE
EX.	EXISTING
IL	INVERT LEVEL
I.O	INSPECTION OPENING
IS	INSPECTION SHAFT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RL	RELATIVE LEVEL
RWO	RAINWATER OUTLET
EJ	EXPANSION JOINT

NOTES:

- 1 ALL WORKS TO BE INSTALLED IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS, ASS500 NATIONAL PLUMBING & DRAINAGE CODE.
- 2 THE CONTRACTOR IS TO CONFIRM LOCATION & DEPTH OF EXISTING SERVICES ON SITE PRIOR TO CONSTRUCTION. IF ANY CONFLICT EXISTS NOTIFY BUILDER IMMEDIATELY.
- 3 THE CONTRACTOR IS TO CONFIRM EXISTING & PROPOSED SURFACE LEVELS PRIOR TO INSTALLATION OF PIPEWORK, SUMPS, MANHOLES, PITS, ETC.
- 4 BACKFILLING
BACKFILL SERVICE TRENCHES AS SOON AS POSSIBLE AFTER SERVICE HAS BEEN LAID AND BEDDED. PLACE THE BACKFILL IN LAYERS <150mm THICK AND COMPACT TO THE DENSITY WHICH APPLIES TO THE LOCATION OF THE TRENCHES TO MINIMISE SETTLEMENT.
- 5 BACKFILL MATERIAL
GENERAL FILL WITH NO STONES GREATER THAN 25mm CURCING WITHIN 150mm OF THE SERVICE UNDER ROADS AND PAVED AREAS AND WITHIN 4 METRES OF BUILDING: COARSE SAND, CONTROLLED LOW STRENGTH MATERIAL OR FINE CRUSHED ROCK.
- 6 ON COMPLETION OF PIPE INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION INCLUDING: KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS & ROAD PAVEMENTS.
- 7 CARE SHALL BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. EXCAVATE BY HAND IN THESE AREAS.
- 8 THE PLUMBING CONTRACTOR SHALL OBTAIN ALL AUTHORITY APPROVALS AND PAY ALL FEES.
- 9 INVERT LEVELS SHOWN ARE INDICATIVE ONLY. CONFIRM ALL LEVELS ON SITE BEFORE COMMENCING CONSTRUCTION.



SECTION A-A



PLAN

STORMWATER SUMP DETAIL

N.T.S.

NOTE:

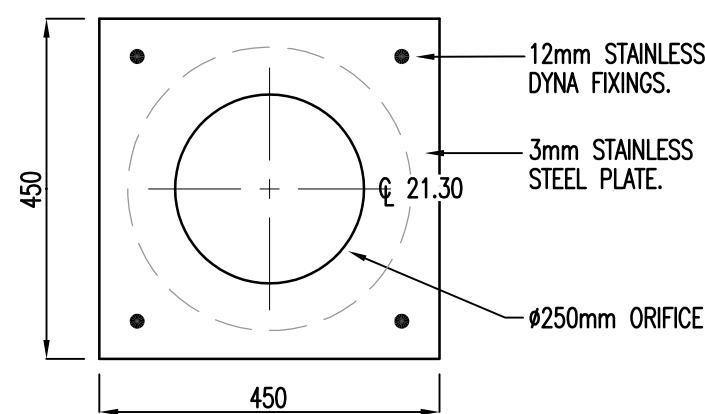
ON-SITE DETENTION TANK SIZING AND WATER TREATMENT MEASURES HAVE BEEN PROVIDED TO MEET:

- DA APPROVAL 2015/100 DATED 18/05/16, STAGE 1 DRAWING 80216033-0A040 REVISION 01 SHOWING OSD 2 VOLUME = "215m" WITH 35 STORMWATER360 "STORMFILER" CARTRIDGES
- STORMWATER MANAGEMENT REPORT FOR CONSTRUCTION CERTIFICATE BY "CARDNO" DATED 02/08/16 INDICATING STAGE 2 OSD STORAGE REQUIRED "235m" WITH 35 STORMWATER360 "STORMFILER" CARTRIDGES

STAGE 2 STORAGE PROVIDED = 245.25m³

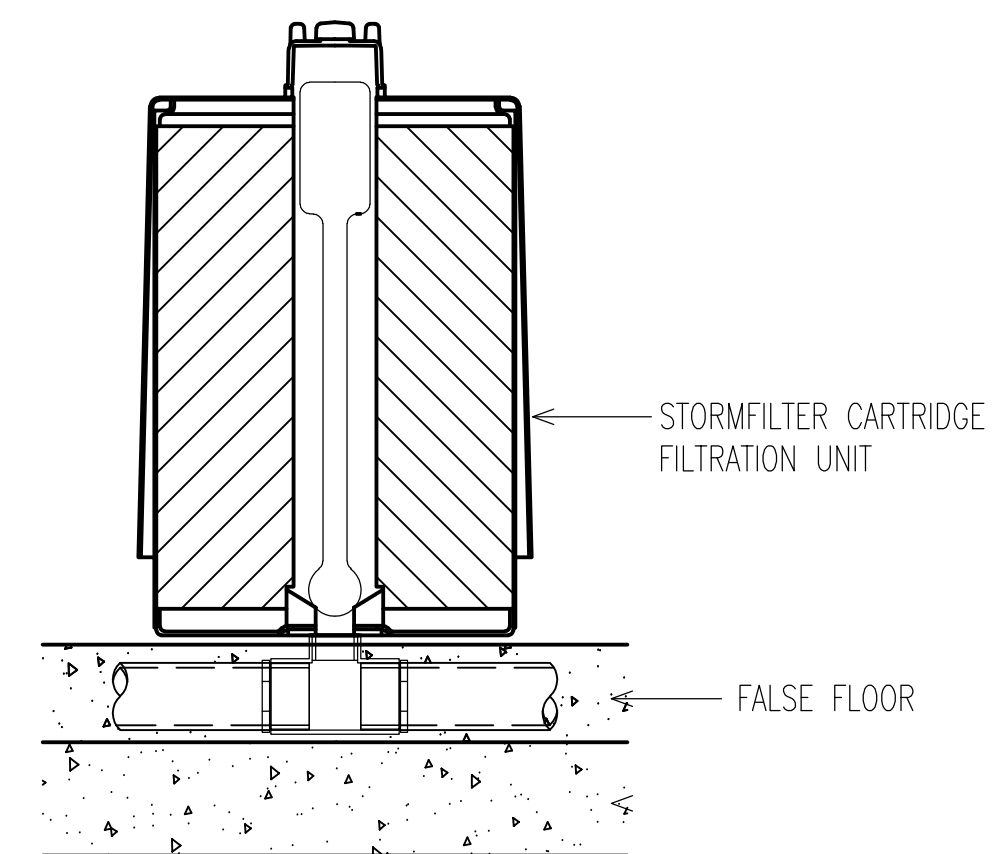
ORIFICE PLATE NOTES:

1. HOLE IN ORIFICE PLATE TO BE PRECISION CUT WITH SHARP EDGES TO THE SPECIFIED DIAMETER.
2. ORIFICE PLATE TO BE PLACED CENTRALLY OVER THE OUTLET PIPE.
3. PLATE TO BE MADE FROM STAINLESS STEEL HOT DIPPED GALVANISED OR OTHERS NOT ACCEPTABLE.
4. OUTLET PIPE TO BE CAST INTO THE WALL OF THE PIT.
5. HOLE IN PLATE TO BE CENTRALLY PLACED.

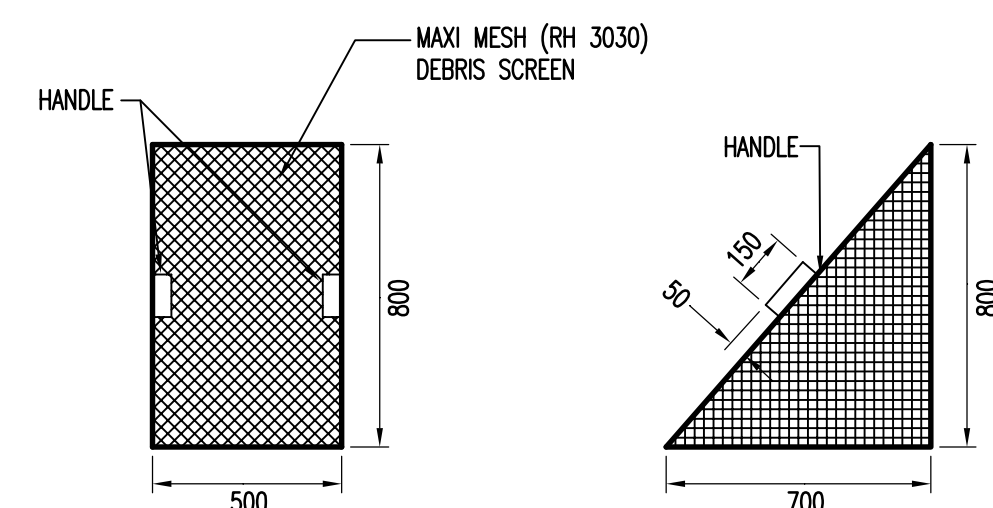


ORIFICE PLATE DETAIL

SCALE: 1:10



STORMFILTER CARTRIDGE DETAIL



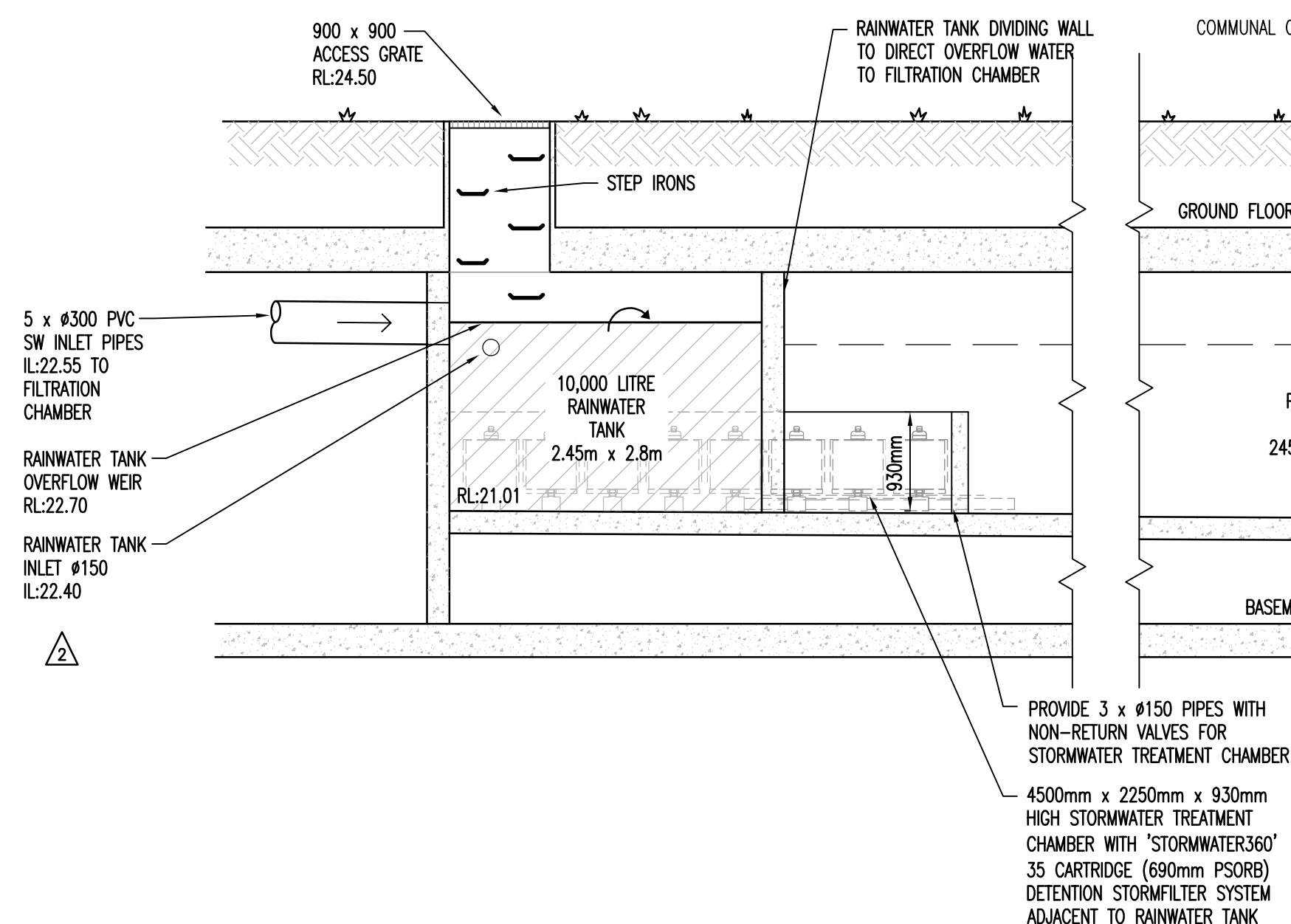
FRONT VIEW

NOTES:

SCREEN TO BE POSITIONED TO
COMPLETELY SCREEN OUTLET PIPE

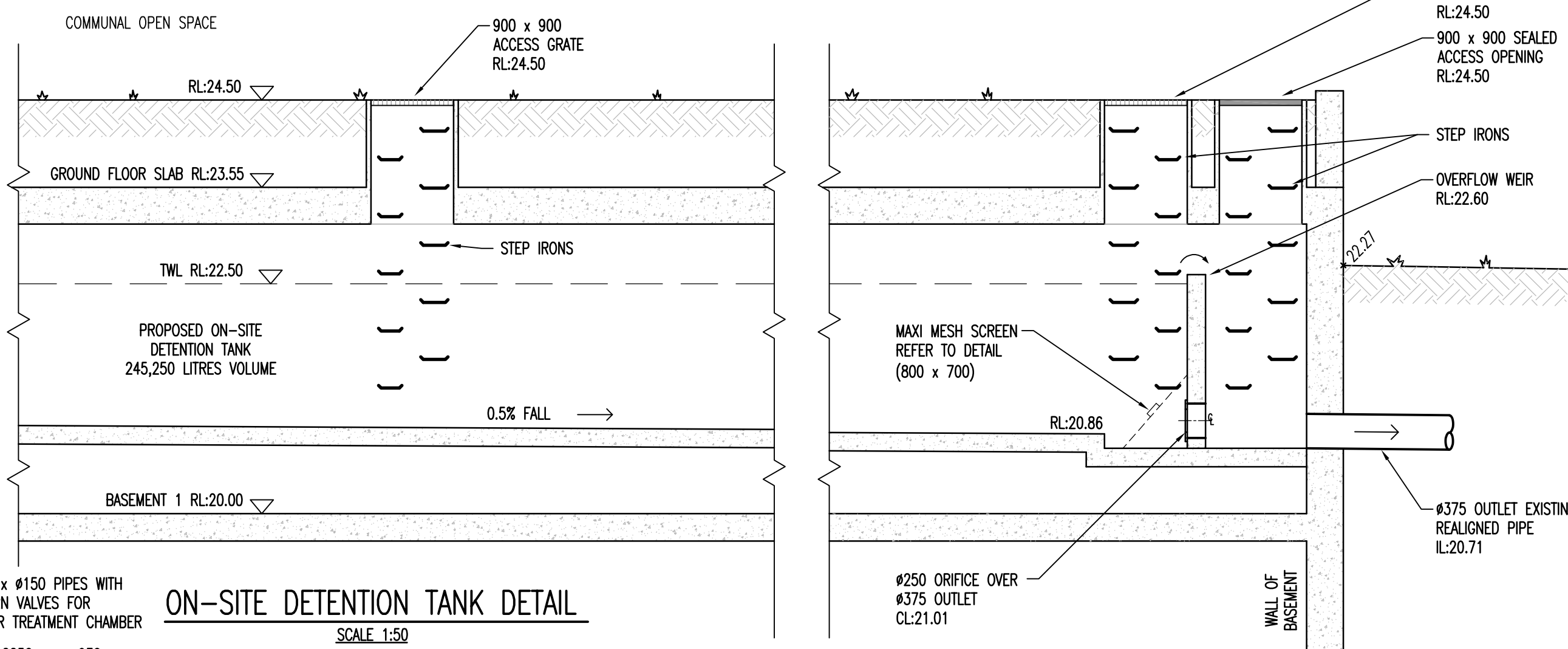
MAXI MESH SCREEN DETAIL

SCALE: 1:20



ON-SITE DETENTION TANK DETAIL

SCALE 1:50



05.07.18	3	BASEMENT LEVEL 3 REMOVED	C
13.06.18	2	REISSUED FOR COUNCIL APPROVAL	B
16.11.17	1	ISSUE FOR COUNCIL APPROVAL	A
DATE	No.	AMENDMENT	ISSUE

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CLIENT :
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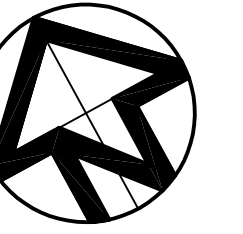
PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT
84 CENTENARY DRIVE
STRATHFIELD NSW 2135



TITLE : HYDRAULIC SERVICES

DRAWING SCHEDULE & LEGEND

Date : NOV 2017		Drawn : NG	
Scales : AS SHOWN @ A1		Checked : GH	
Job No. : 172997	Cad File No. : 172997H000	Drawing No. : H000	



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DA2017/168
6 July 2018

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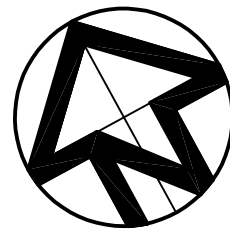
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TITLE :
HYDRAULIC SERVICES

BASEMENT 1 FLOOR PLAN

Date :	NOV 2017	Drawn :	NG
Scales :	1:200 @ A1	Checked :	GH
Job No. :	172997	Cad File No. :	172997H102
		Drawing No. :	H102



BASEMENT PUMPING WELL

PROVIDE TWO CENTRIFUGAL DRAINAGE SUMP PUMPS WITH SINGLE PHASE ELECTRIC MOTOR CAPABLE OF DISCHARGING 3.0L/S EACH AGAINST A TOTAL HEAD OF (12.5M) WITH 10 STARTS PER HOUR MAXIMUM. CLASS 1 ZONE 2 CERTIFIED PUMPS FOR HAZARDOUS AREAS IS REQUIRED SWITCHING SHALL PROVIDE FOR ALTERNATIVE OPERATION OF THE PUMPS, HIGH LEVEL SWITCH ON/OFF, 2ND PUMP, AND A RED LIGHT ALARM PLACED PROMINENTLY IN THE BASEMENT AREA ACTIVATED BY HIGH LEVEL SWITCH ON.

GARAGE HOLDING TANK AREA DRAINING TO THE GARAGE PUMPING WELL IS THE DRIVEWAY TO THE BASEMENT (50M²) STORAGE MUST BE PROVIDED FOR A BLACKOUT OF AT LEAST 4HRS, THE 100YRS ARI 4HR STORM RUNOFF IS:

$$Q = F \times C \times I \times A$$
$$= 1/3600 \times 1 \times 34.1 \times 50$$
$$= 0.474 \text{ L/s}$$

VOLUME ACCUMULATED:

$$V = (0.474 \text{ L/s} \times 4\text{hrs} \times 3600\text{s})/1000$$
$$= 6.83 \text{ m}^3$$

VOLUME PROVIDED:

$$= 10\text{m}^3$$

LET THE MAXIMUM DISCHARGE BE FOR THE 10 MIN 100YRS ARI STORM. IN THE EVENT OF A STRONGER STORM SUCH AS A 5MIN 100YRS ARI, THE STANDBY PUMP WILL OPERATE WITH THE DUTY PUMP TO DISCHARGE THE EXTRA RUNOFF. IN CASE OF A BREAK DOWN, STORAGE IS PROVIDED IN THE BASEMENT FOR THE EXCESS RUNOFF.

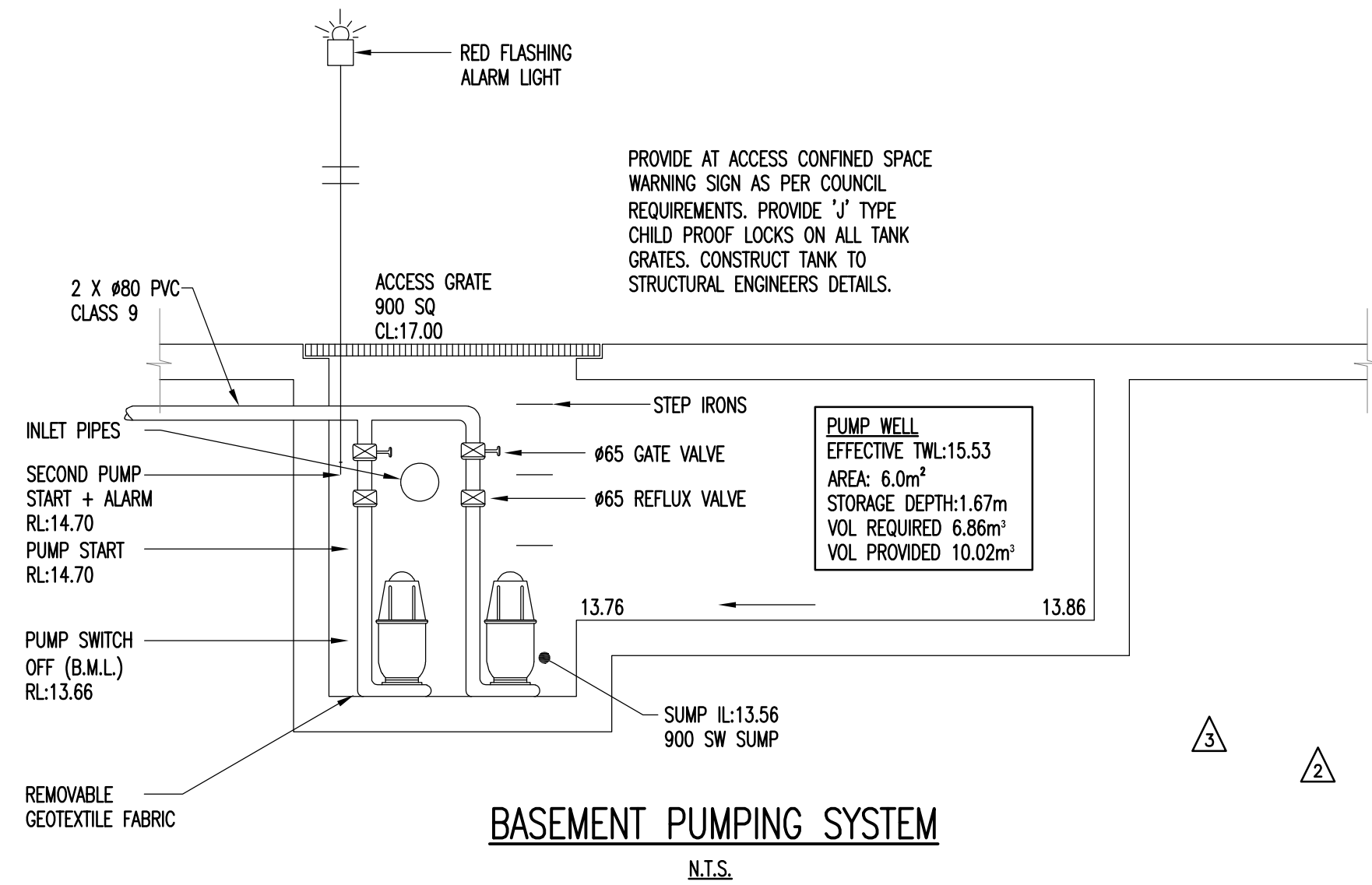
$$Q = F \times C \times I \times A$$
$$= 1/3600 \times 1 \times 207 \times 50$$
$$= 2.8 \text{ L/s}$$

A CONTROL VOLUME IS REQUIRED TO PREVENT THE PUMP FROM STARTING TOO OFTEN (< 10/HR)

$$CV = 900 \times Q_p/n$$
$$= (900 \times 2.8) / (10 \times 1000)$$
$$= 0.25 \text{ m}^3$$

GARAGE PUMPING DUTY CALCULATION(Q = 2.8 L/S)

ITEM	HEAD
STATIC ADJUSTMENT	10.3m
65MM PUMP FITTINGS EL 30M (1.4M/100)	0.4m
65MM PVC CLASS 9 EL 50M (1.4M/100)	0.7m
SUNDRIES(ABOUT 10%)	1.1m
TOTAL	12.5m



BASEMENT PUMPING SYSTEM

N.T.S.

05.07.18	3	BASEMENT LEVEL 3 REMOVED, PIPEWORK AMENDED	C
13.06.18	2	REISSUED FOR COUNCIL APPROVAL	B
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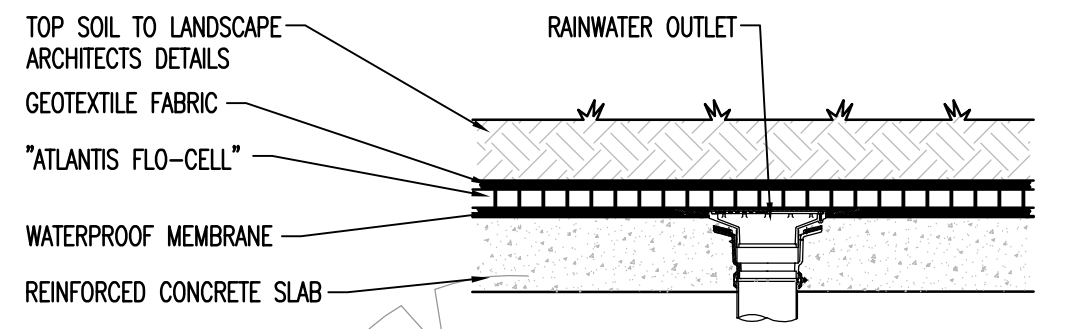
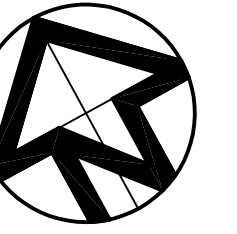
PROJECT :
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84 CENTENARY DRIVE
STRATHFIELD NSW 2135

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TITLE :
BASEMENT 2 FLOOR PLAN

Date :	NOV 2017	Drawn :	NG
Scales :	1:200 @ A1	Checked :	GH
Job No. :	172997	Cod File No. :	172997H101
		Drawing No. :	H101

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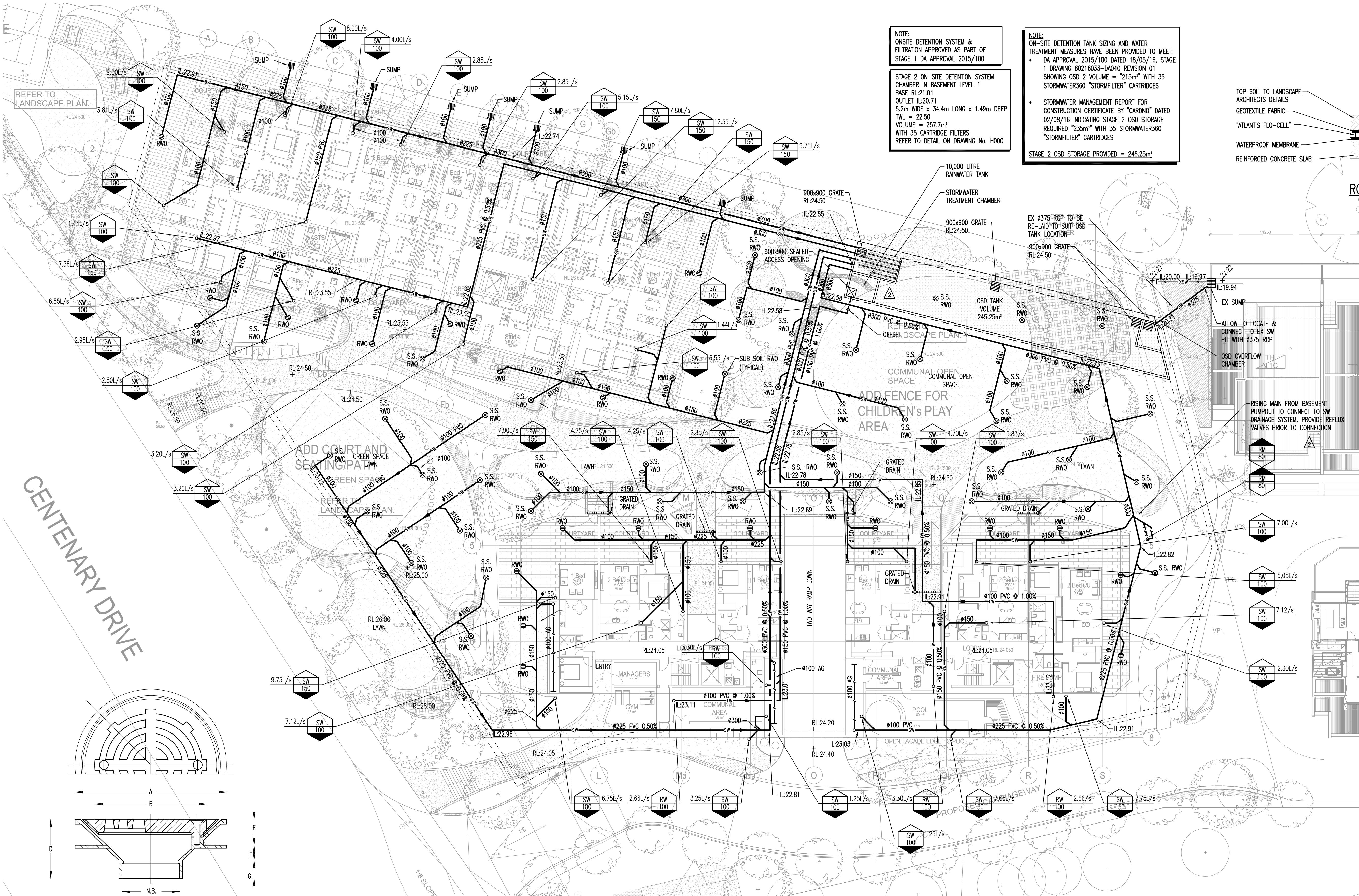


ROOF GARDEN RAINWATER
OUTLET DETAIL
SCALE N.T.S.

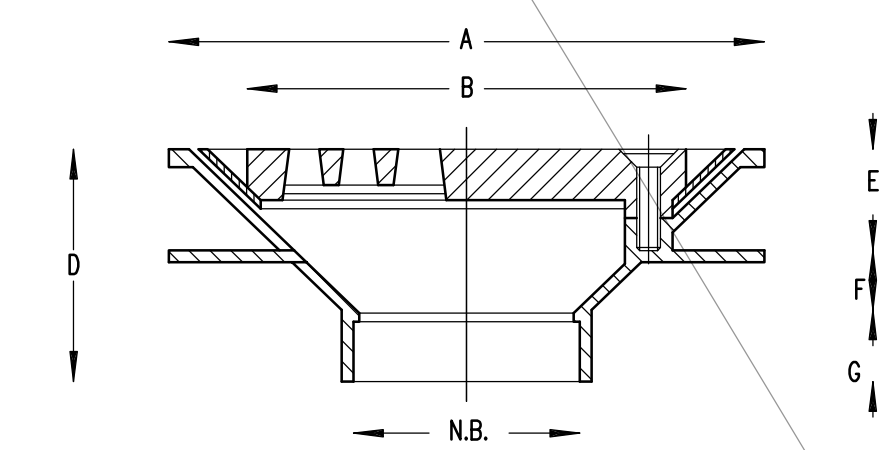
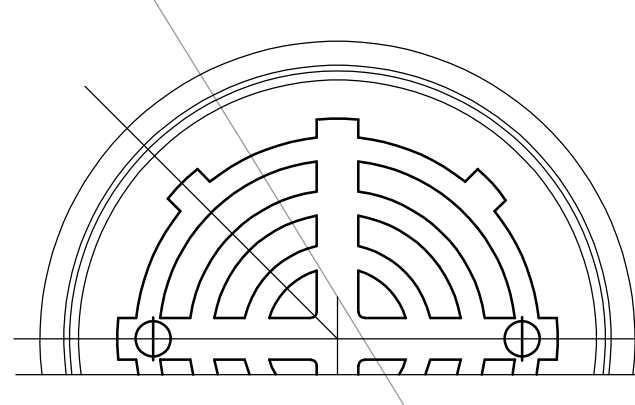
NOTE:
ON-SITE DETENTION SYSTEM &
FILTRATION APPROVED AS PART OF
STAGE 1 DA APPROVAL 2015/100

STAGE 2 ON-SITE DETENTION SYSTEM
CHAMBER IN BASEMENT LEVEL 1
BASE RL:21.01
OUTLET IL:20.71
5.2m WIDE x 34.4m LONG x 1.49m DEEP
TWL = 22.50
VOLUME = 257.7m³
WITH 35 CARTRIDGE FILTERS
REFER TO DETAIL ON DRAWING No. H000

NOTE:
ON-SITE DETENTION TANK SIZING AND WATER
TREATMENT MEASURES HAVE BEEN PROVIDED TO MEET:
• DA APPROVAL 2015/100 DATED 18/05/16, STAGE
1 DRAWING 80216033-DA040 REVISION 01
SHOWING OSD 2 VOLUME = "215m³" WITH 35
STORMWATER360 "STORMFILTER" CARTRIDGES
• STORMWATER MANAGEMENT REPORT FOR
CONSTRUCTION CERTIFICATE BY "CARDINO" DATED
02/08/16 INDICATING STAGE 2 OSD STORAGE
REQUIRED "235m³" WITH 35 STORMWATER360
"STORMFILTER" CARTRIDGES
STAGE 2 OSD STORAGE PROVIDED = 245.25m³



CENTENARY DRIVE



AVAILABLE * CAST IRON
* CAST BRONZE

N.B	A	B	C	D	E	F	G	FLOW RATE L/S
80	200	150	85	80	33	22	25	
100	260	200	110	95	44	26	25	8.2
150	260	200	160	80	48	4	28	10.2
SUPERFLO	400	300	160	143	66	39	38	17

RAINWATER OUTLET DETAIL
N.T.S.

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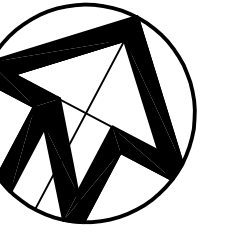
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TITLE :
HYDRAULIC SERVICES

GROUND FLOOR PLAN

Date :	NOV 2017	Drawn :	NG
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Job No. :	172997	Cod File No. :	172997H103
		Drawing No. :	H103



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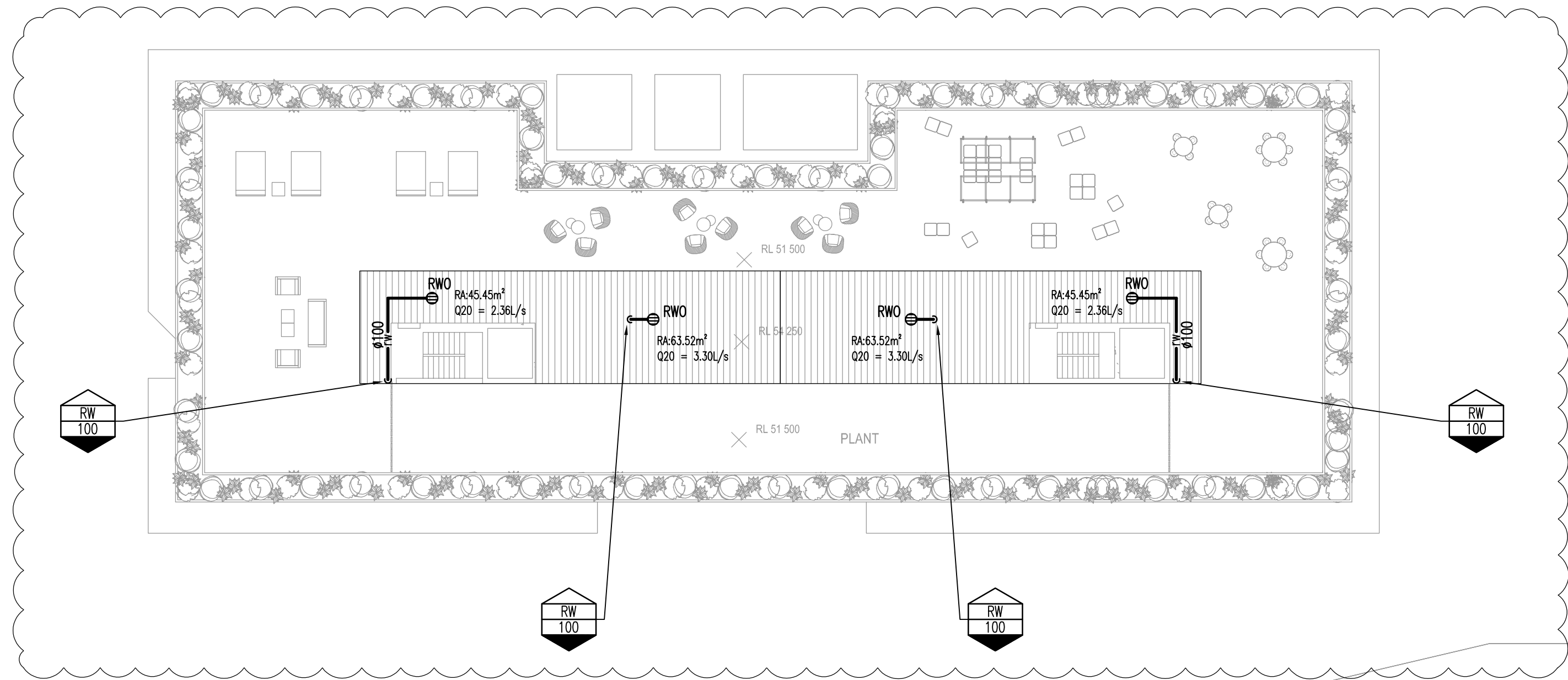
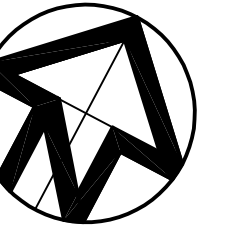
TITLE :
HYDRAULIC SERVICES
LEVEL 1 FLOOR PLAN

Date :	NOV 2017	Drawn :	NG
Scales :	1:100 @ A1	Checked :	GH
Job No. :	172997	Cod File No. :	172997H104
		Drawing No. :	H104

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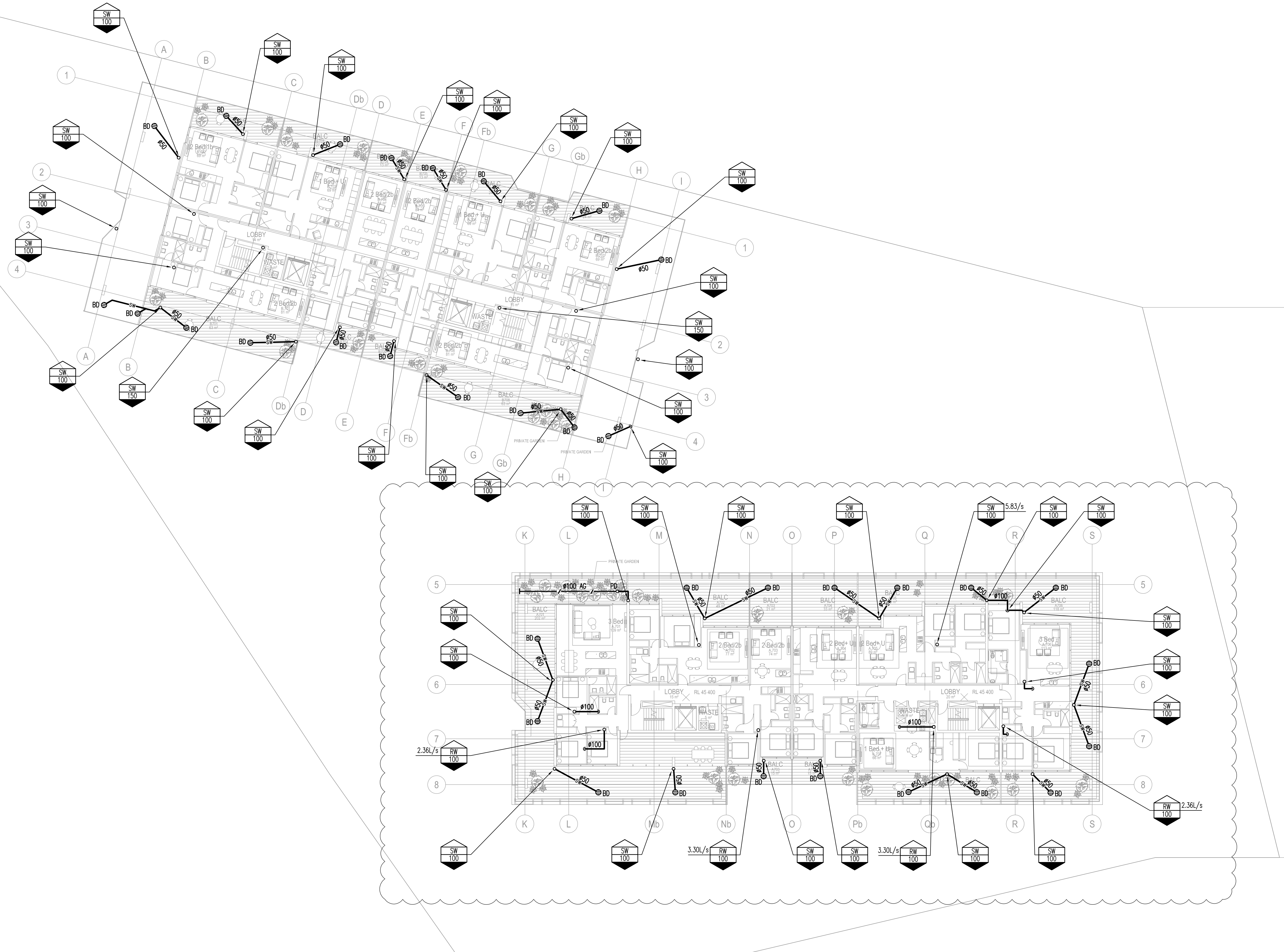
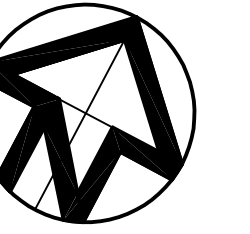
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TITLE :
HYDRAULIC SERVICES
LEVEL 10 FLOOR PLAN

Date :	NOV 2017	Drawn :	NG
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		Drawing No. :	H110

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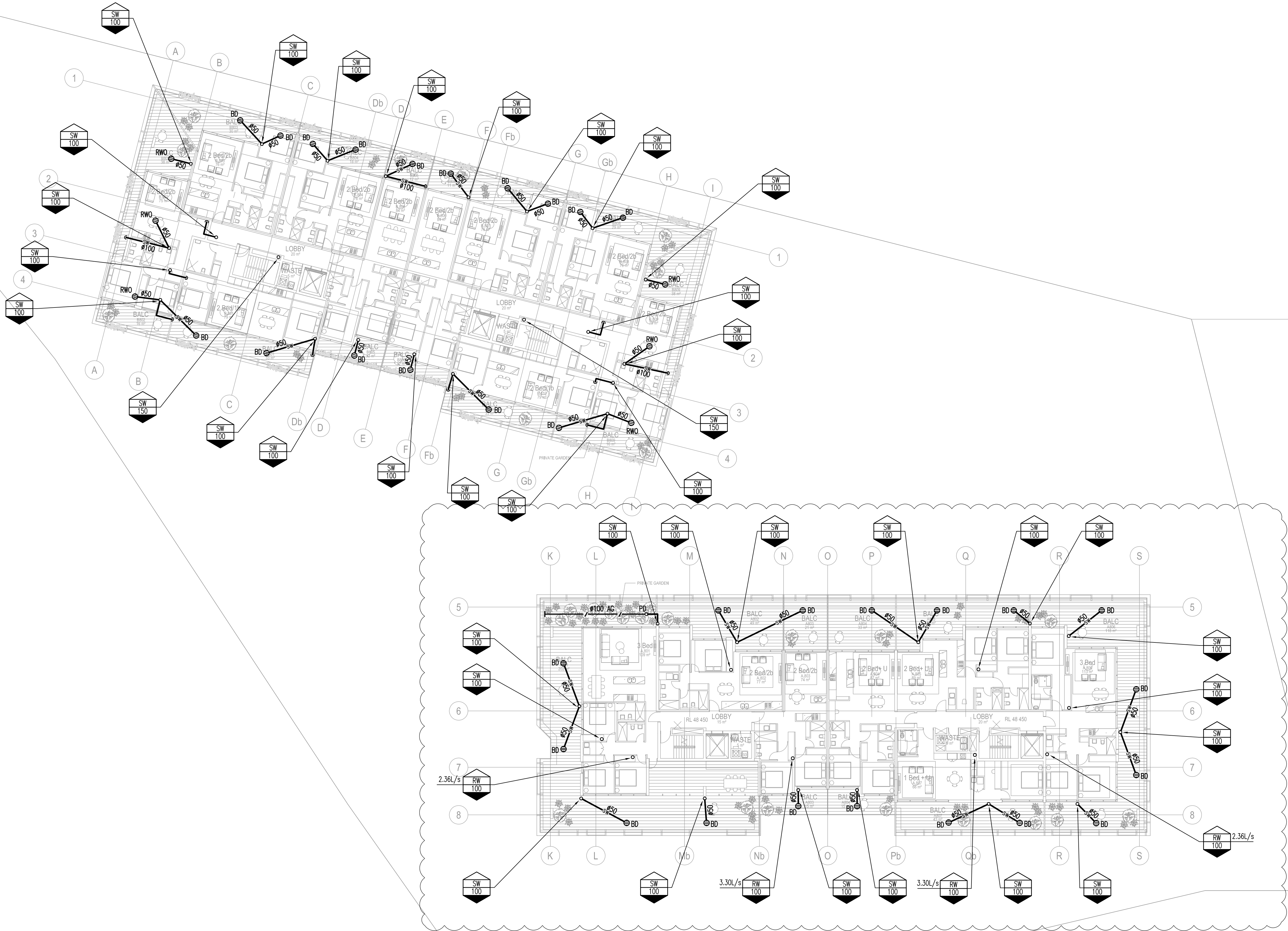
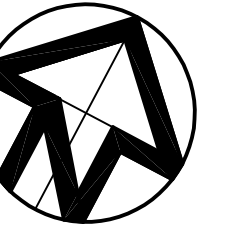
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TITLE :
HYDRAULIC SERVICES
LEVEL 7 FLOOR PLAN

Date :	NOV 2017	Drawn :	NG
Scales :	1:200 @ A1	Checked :	GH
Job No. :	172997	Cad File No. :	172997H107
		Drawing No. :	H107

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6 July 2018



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DATE	No.	AMENDMENT	ISSUE

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CLIENT :
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PROJECT :
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84 CENTENARY DRIVE
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HYDRAULIC + FIRE CONSULTANTS

Coffs Harbour
P: 02 6658 2444
PO Box 192
SAWTELL, NSW, 2452

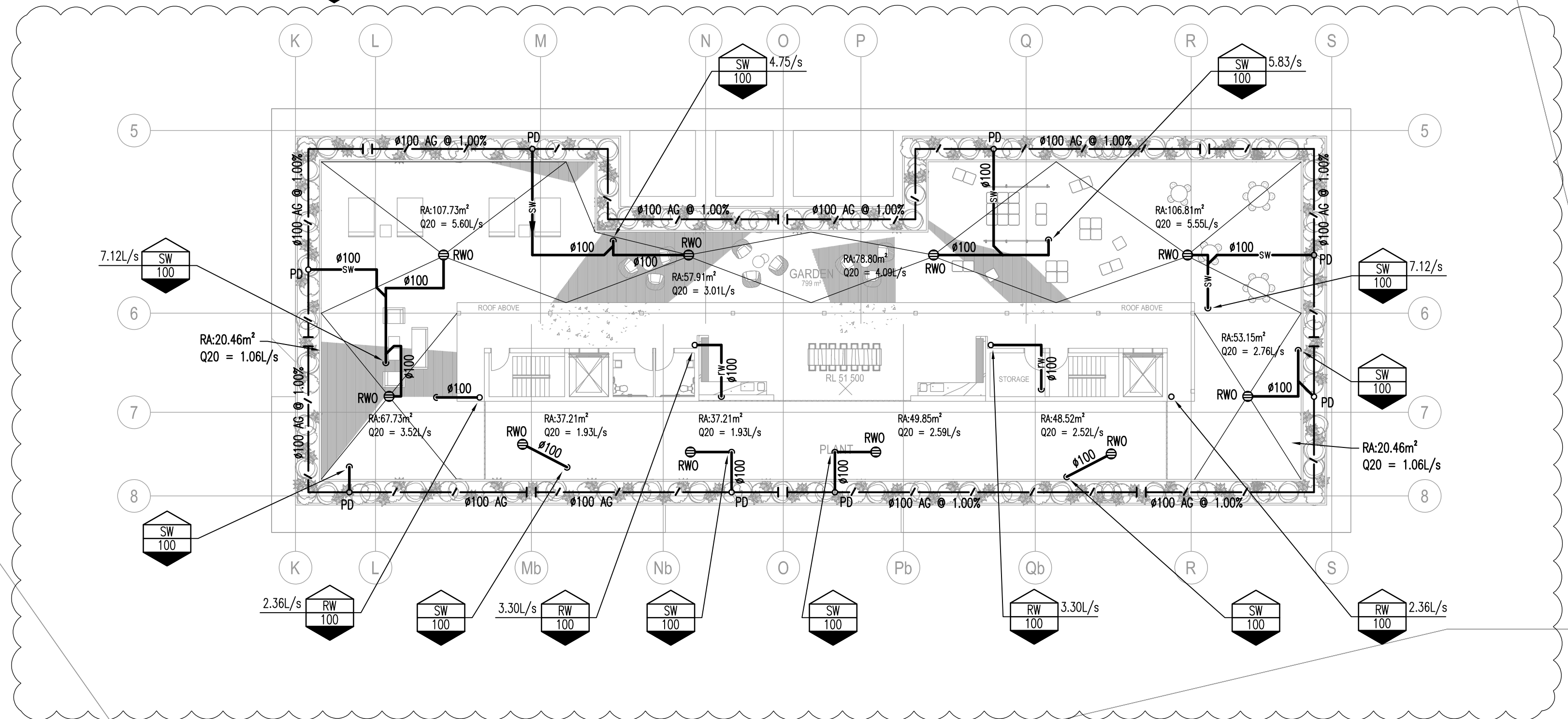
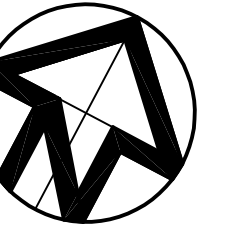
Sydney
P: 02 9310 1352
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office@glennhaig.com.au

TITLE :
HYDRAULIC SERVICES
LEVEL 8 FLOOR PLAN

Date :	NOV 2017	Drawn :	NG
Scales :	1:200 @ A1	Checked :	GH
Job No. :	172997	Cad File No. :	172997H108
		Drawing No. :	H108

**STRATHFIELD COUNCIL
RECEIVED**
(AMENDED PLAN)
DA2017/168
6 July 2018



STRATHFIELD COUNCIL
RECEIVED
(AMENDED PLAN)
DA2017/168
6 July 2018

13.06.18	2	COUNCIL COMMENT AMENDMENTS	B
16.11.17	1	ISSUE FOR COUNCIL APPROVAL	A
DATE	No.	AMENDMENT	ISSUE

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ARCHITECT :
WOODS BAGOT
LEVEL 2 60 CARRINGTON STREET
SYDNEY NSW 2000

CLIENT :
CONQUEST GROUP OF COMPANIES

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT
84 CENTENARY DRIVE
STRATHFIELD NSW 2135

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TITLE :
HYDRAULIC SERVICES
LEVEL 9 FLOOR PLAN

Date :	NOV 2017	Drawn :	NG
Scales :	1:200 @ A1	Checked :	GH
Job No. :	172997	Cod File No. :	172997H109
		Drawing No. :	H109