STORWATER MANAGEMENT PLAN

107 TOMPSON STREET PANANIA NSW 2213

GENERAL NOTES:

ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS, BUILDING CODE OF AUSTRALIA, NSW CODE OF PRACTICE AND THE TO THE RELEVANT SERVICE CODES.

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

ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE IN MILLIMETERS (U.N.O.). DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OF THESE DRAWINGS. USE FIGURED DIMENSIONS ONLY.

BENCHMARKS HAVE BEEN ESTABLISHED WHERE INDICATED ON THE DRAWINGS. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.). THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY SURVEY WORK TO ENSURE THAT THE WORKS ARE CONSTRUCTED TO DESIGN LINE AND LEVEL.

SETTING OUT DIMENSIONS AND LEVELS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR.

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

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH WORK HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.

NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.

WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.

ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND THESE SPECIFICATIONS.

DESIGN LEVELS GIVEN ARE TO FINISHED SURFACE LEVEL AND INCLUSIVE OF TOPSOIL. (TOPSOIL DEPTH VARIES)

THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A N.A.T.A. REGISTERED SURVEYOR.

CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THE DRAWING HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED OR ACCURATE.

THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.

CAPITAL ENGINEERING CONSULTANTS DOES NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THE DRAWING SHOWS MORE THAN THE PRESENCE OR ABSENCE OF SERVICES, AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FROM THE UTILITY SERVICES AUTHORITIES A CURRENT COPY OF UNDERGROUND SERVICES SEARCH FOR THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY. CLEARANCE SHALL BE OBTAINED FROM THE RELEVANT REGULATORY AUTHORITY. CONTRACTOR TO KEEP COPY OF UNDERGROUND SERVICES SEARCH ON SITE AT ALL TIMES. ANY DAMAGES TO SERVICES OR SERVICES ADJUSTMENTS SHALL BE CARRIED OUT BY THE CONTRACTOR OR RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE.

VISIT THE SITE BEFORE SUBMITTING THE FINAL TENDER PRICE TO ASSESS 'ON SITE' CONDITIONS. FAILURE TO DO SO WILL FORFEIT ANY CLAIM FOR NOT BEING AWARE OF CONDITIONS AFFECTING THE TENDER.

THE CONTRACTOR SHALL PREPARE ACCURATE WORK-AS-EXECUTED DRAWINGS FOLLOWING THE COMPLETION OF ALL WORKS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE IN PLACE & MAINTAIN TRAFFIC FACILITIES AT ALL TIMES DURING CONSTRUCTION.

STORMWATER NOTES:

ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE AS3500.3-2018: 'STORMWATER DRAINAGE'

FOR STORMWATER DRAINAGE PIPES THAT EXCEED 1:5 GRADE, REINFORCED CONCRETE ANCHOR BLOCKS SHALL BE INSTALLED. ANCHOR BLOCKS TO BE CONSTRUCTED TO SPECIFICATIONS SET OUT IN AS3500.3-2018.

COORDINATE THE INSTALLATION OF NEW SERVICES WITH ALL NEW & EXISTING SERVICES & STRUCTURAL PROVISIONS AS DETERMINED ON SITE.

ALL PIPEWORK TO BE SUPPORTED IN ACCORDANCE WITH AS3500.3-2018.

ALL PIPEWORK IS TO BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS AS SET DOWN IN AS3500.3-2018. ALL IN-GROUND PIPEWORK TO BE INSPECTED BY THE SUPERINTENDENT UNDER TEST CONDITIONS PRIOR TO BACKFILLING.

PIPES SHALL BE TRUE TO GRADES SHOWN AND ALIGNED SO THAT THE CENTRE OF THE INLET PIPE INTERSECTS WITH THE CENTRE OF THE OUTLET PIPE AT THE DOWNSTREAM FACE OF THE PIT.

BED ALL PIPES FIRMLY AND EVENLY WITH IMPORTED FILL ONLY. THICKNESS OF BEDDING LAYER SHALL BE 75mm IN SOIL AND 200mm IN ROCK.

LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS3725-2007: DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES'.

ALLOW TO TEST ALL PIPES AND PITS TO LOCAL AUTHORITY'S REQUIREMENTS.

EXCAVATE TRENCHES AND STOCKPILE ALL MATERIAL FOR INSPECTION WITH REGARD TO REUSE FOR TRENCH BACKFILL. REMAINING MATERIAL TO BE REMOVED FROM SITE.

BACKFILL PIPES WITH IMPORTED FILL. PROVIDE 200mm SIDE SUPPORT AND 150mm OVERLAY ABOVE PIPE CROWN. TRENCH FILL ABOVE THE EMBEDMENT ZONE TO THE UNDERSIDE OF THE ROAD PAVEMENT OR THE FOOTWAY SHALL BE AS FOLLOW: -

TRENCH FILL MATERIAL SHALL CONSIST OF IMPORTED FILL AS SPECIFIED HEREIN OF EITHER HIGH GRADE COMPACTION SAND OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO RMS QA SPECIFICATION 3051 OR SIMILAR.

TRENCH MATERIAL EXCAVATED SHALL CONSIST OF SELECT FILL AS SPECIFIED HEREIN AND SHALL NOT CONTAIN MORE THAN 20% OF STONES OF SIZE BETWEEN 25mm AND 75mm AND NONE LARGER THAN 75mm. PRIOR TO USE OF THE EXCAVATED MATERIAL IT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER.

COMPACT BEDDING. EMBEDMENT AND TRENCH FILL MATERIALS AS FOLLOW: -

EMBEDMENT: -

FOR GRANULAR FILL MATERIAL (NON-COHESIVE SOIL) e.g. COARSE AGGREGATE FILL, THE DENSITY INDEX (ID) SHALL BE NOT LESS

TRENCH FILL: -

FOR GRANULAR MATERIAL (NON COHESIVE SOILS). THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%. FOR NON-GRANULAR FILL MATERIAL (COHESIVE SOILS), THE DRY DENSITY RATIO (RD) SHALL BE NOT LESS THAN 95%.

UTILITY INFORMATION SHOWN ON THE PLANS IS NOT INTENDED TO DEPICT MORE THAN THE PRESENCE OF ANY SERVICES. ACTUAL LOCATIONS SHOULD BE VERIFIED BY HAND EXCAVATION PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS

GEOTEXTILE FABRIC MATERIAL TO BE BIDIM A24 OR APPROVED EQUIVALENT AND SHALL COMPLY WITH AS3705-2012: 'GEOTEXTILES - IDENTIFICATION, MARKING AND GENERAL DATA'

THE CONTRACTOR SHALL ENSURE THAT SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED AT ALL TIMES. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING WHERE REQUIRED. ONCE THE WORKS ARE COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD ALL DISTURBED AREAS.

STORMWATER NOTES (CONT):

EXISTING PIPES WHICH FORM NO PART OF THE DRAINAGE SYSTEM SHALL BE REMOVED OR SEALED AS INDICATED ON THE PLANS. PIPES UP TO 300mm DIAMETER SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS (U.N.O.). ALL PIPE JUNCTIONS AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.

WHERE DOWNPIPES PASS UNDER FLOOR SLABS, SEWER GRADE uPVC WITH RUBBER RING JOINTS ARE TO BE USED.

MINIMUM GRADE TO DRAINAGE PIPES TO BE 1% (U.N.O.), MIN. SIZE 100mm DIAMETER (U.N.O.).

PIPES LARGER THAN OR EQUAL TO 300mm DIAMETER TO BE REINFORCED CONCRETE RUBBER RING JOINTED TYPE (CLASS 2) MANUFACTURED TO AS4058 (U.N.O.).

PIPE INSTALLATION UNDER TRAFFICABLE AREAS SHALL BE IN ACCORDANCE WITH CONCRETE PIPE ASSOCIATION OF AUSTRALIA PUBLICATION "CONCRETE PIPE SELECTION & INSTALLATION" TYPE HS3 SUPPORT.

EQUIVALENT STRENGTH FRC PIPES MAY BE USED SUBJECT TO AUTHORITY APPROVAL.

MINIMUM PIPE COVER TO BE 600mm UNDER TRAFFICABLE AREAS AND 300mm ELSEWHERE (U.N.O.).

CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS. STORMWATER DRAINAGE CONNECTIONS TO COUNCIL'S SYSTEM

SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL. PITS DEEPER THAN 1200mm TO BE FITTED WITH STEP IRONS AT

300 CENTRES TO AS1657-2013: FIXED PLATFORMS, WALKWAYS,

STAIRWAYS AND LADDERS - DESIGN, CONSTRUCTION AND INSTALLATION'. ALL EXPOSED EDGES TO BE ROUNDED WITH 20mm RADIUS, OR

CHAMFERED 20mm x 20mm. PIT REINFORCEMENT - MESH SL82 LAP TO BE 400mm MIN. CLEAR

COVER 40 MIN. CAST AGAINST BLINDING OR FORMWORK. CORNER

RETURNS MAY BE FABRIC OR EQUIVALENT BARS.

BENCHING TO BE HALF OUTGOING PIPE DEPTH. CONCRETE FOR BENCHING TO BE 20MPa MASS CONCRETE.

BRICKWORK, BLOCKWORK, CONCRETE OR APPROVED PRECAST PITS ARE TO BE USED IN TRAFFICABLE AREAS SUBJECT TO APPROVAL.

FIBREGLASS, HARD-PLASTIC OR APPROVED PRECAST PITS ARE TO

BE USED IN NON-TRAFFICABLE AREAS SUBJECT TO APPROVAL. 100mm DIAMETER HOLE FOR SUBSOIL DRAINAGE OUTLET TO BE

LOCATED 100mm ABOVE INVERT OF ALL INLET PIPES. SUBSOIL DRAINAGE TO EXTEND FOR A DISTANCE OF 3m UPSTREAM OF PIT (AT EACH INLET TRENCH) WITH THE UPSTREAM END SEALED.

ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.

PIT GRATE, FRAMES AND SOLID COVERS SHALL BE CLASS B IN NON TRAFFIC AREAS AND CLASS C IN TRAFFICABLE AREAS IN ACCORDANCE WITH AS3996 U.N.O.

ALL GRATES SHALL BE PROVIDED WITH A 'J-LOCK' TYPE LOCKING

GRATES TO PITS IN FOOTPATH AREAS SHALL BE HEEL SAFE COMPLYING WITH THE DISABLED ACCESS CODE

PIT GRATING TO BE GALVANISED STEEL TYPE 'WELDLOK' OR

APPROVED EQUIVALENT SUBSOIL PIPES SHALL BE LAID AT A MIN GRADE OF 1% (U.N.O.).

ADDITIONAL SUBSOIL DRAINAGE SHALL BE LAID TO SUIT SITE CONDITIONS AND GROUNDWATER PRESENCE AS DIRECTED. SUBSOIL PIPES SHALL BE LAID BEHIND KERBS IN CUT AREAS OF THE SITE.

PROVIDE A MINIMUM OF 150mm GRAVEL AROUND SUBSOIL PIPE. TRENCH TO BE LINED WITH GEOTEXTILE FABRIC TYPE BIDIM A24

SURVEY

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.

CAPITAL ENGINEERING CONSULTANTS DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION OR DESIGN.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT CAPITAL ENGINEERING CONSULTANTS.

ABBREVIATIONS:

ØCCCCDDDDDD e FGGHJKLPRKKKNOORRRRRRSSSSSSSSTTTTDUWFFTBOCCCDDDDDD e FGGHJKLPRO&RGFD PKLWWJMWWSSSSSSSTTTTDUWFFTBOCCCCDDDDDDD e FGGHJKLPRO&RGFD PKLWWJMWSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	DIAMETER CALIFORNIA BEARING RATIO CHAINAGE CENTER LINE CLEAR OUT DISH DRAIN DISH DRAIN DISH DRAIN OUTLET DOWELLED EXPANSION JOINT DENSE GRADED BASECOURSE DENSE GRADED SUB—BASE DOWNPIPE EXISTING FINISHED FLOOR LEVEL GRATED TRENCH DRAIN GRATED SURFACE INLET PIT HYDRANT ISOLATING JOINT INTEGRAL KERB INVERT LEVEL INTERSECTION POINT KERB ONLY KERB & GUTTER KERB RETURN NATURAL GROUND LEVEL OVERLAND FLOW PATH ON—SITE DETENTION RADIUS REINFORCED CONCRETE PIPE ROLL KERB & GUTTER REDUCED LEVEL RETAINING WALL RAINWATER TANK SAWN CONTROL JOINT SEWER MAN HOLE STORMWATER PIT STORMWATER RISING MAIN STORMWATER SUMP STOP VALVE TOP OF KERB TOP OF WALL TOP WATER LEVEL TANGENT POINT UNPLASTICISED POLYVINYL CHLORIDE UNLESS NOTED OTHERWISE WEAKENED PLANE JOINT FIRST FLUSH DEVICE TYPICAL BENCH MARK
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DIAL BEFORE YOU DIG SHOULD BE CONTACTED PRIOR TO ANY **EXCAVATION ON SITE**

UNDER LICENSE.

DRAWING REGISTER				
NUMBER	NAME	REVISION		
SW001	COVER SHEET	В		
SW010	BASEMENT FLOOR PLAN, NOTES & DETAILS	В		
SW020	GROUND FLOOR PLAN, NOTES & DETAILS	В		
SW021	SITE CATCHMENT PLAN	В		
SW030	FIRST FLOOR & ROOF PLAN, NOTES & DETAILS	В		
ER001	EROSION AND SEDIMENT CONTROL PLAN	В		

ECENID.

<u> EGEND:</u>			
• DP	DOWNPIPE	(eSMH	EXISTING SEWER MANHOLE
	STORMWATER LINE		EXISTING JUNCTION PIT
	STORMWATER LINE DRAINING TO RWT		EXISTING JUNCTION FIT
—— OF ——	OVER FLOW PIPE		EXISTING KERB INLET PIT
——————————————————————————————————————	SUBSOIL LINE	eTEL	EXISTING TELSTRA PIT
SWRM	STORMWATER RISING MAIN	⊞ eHYD	EXISTING HYDRANT
e	EXISTING STORMWATER LINE	⊠ eSV	EXISTING STOP VALVE
s	AUTHORITY SEWER LINE	□ eGAS	EXISTING GAS VALVE
w	AUTHORITY WATER LINE	○ ePP	EXISTING POWER POLE
—— G ——— G ———	AUTHORITY GAS LINE		EXISTING GRATED SURFACE INLET PIT
— — Е —	AUTHORITY ELECTRICITY LINE	ø FF	FIRST FLUSH
—F0—F0—F0—	AUTHORITY FIBRE OPTIC LINE	Ø RWO	RAINWATER OUTLET
TEL	AUTHORITY COMMS LINE	ø CO	CLEAR OUT POINT
	SEDIMENT FENCE	Ø DDO	DISH DRAIN OUTLET
	GRATED SURFACE INLET PIT	ø PD	PLANTER DRAIN
	GRATED SURFACE INLET PIT WITH OCEANGUARD INSERT	Э	CAPPING
		⊠ RH	RAINHEAD
	SEALED JUNCTION PIT	♣ SP	DOWNPIPE SPREADER
	PROPOSED KERB INLET PIT	-	WARNING LIGHT
	GRATED TRENCH DRAIN		SPOT LEVELS
R/W TANK)	RAINWATER RE-USE TANK	Δ	BENCHMARK
	DDODOSED RETAINING WALL	OFP	OVERLAND FLOW PATH

TM: TRADE MARK OF THE ASSOCIATION OF DIAL BEFORE YOU DIG SERVICES LTD. USED

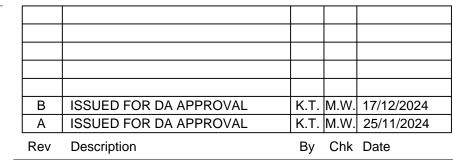
EAust, CPEng No. 3132148, NER, RPEQ.

PROPOSED DUAL OCCUPANCY

107 TOMPSON STREET PANANIA NSW 2213



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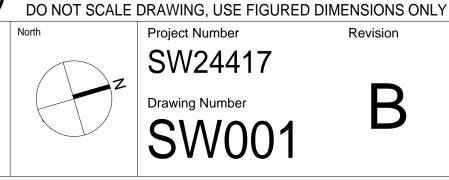


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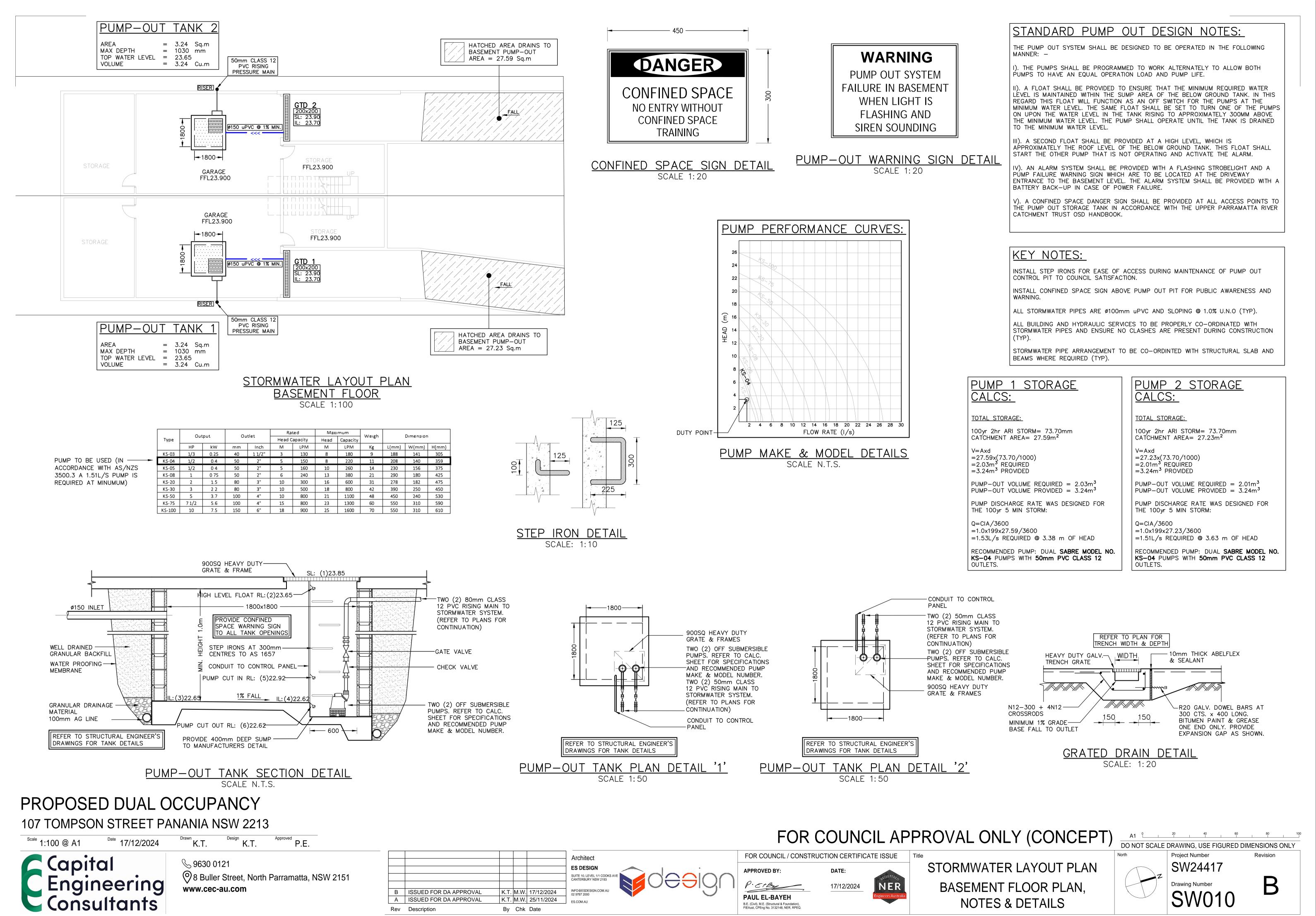
FOR COUNCIL APPROVAL ONLY (CONCEPT

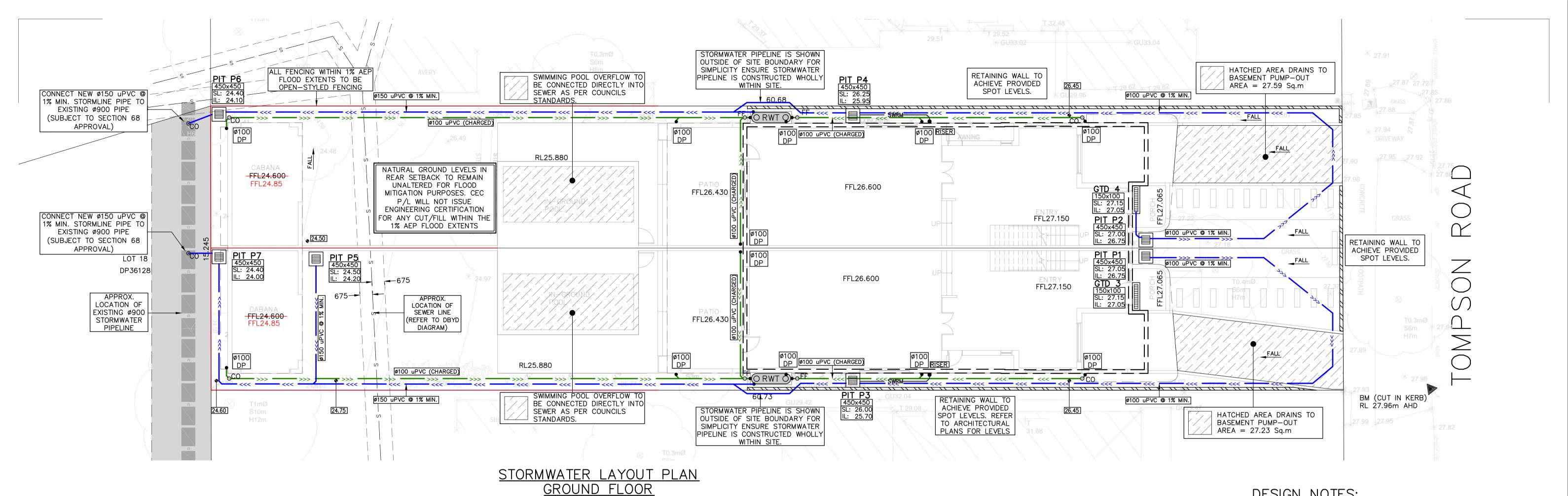
STORMWATER LAYOUT PLAN **COVER SHEET**

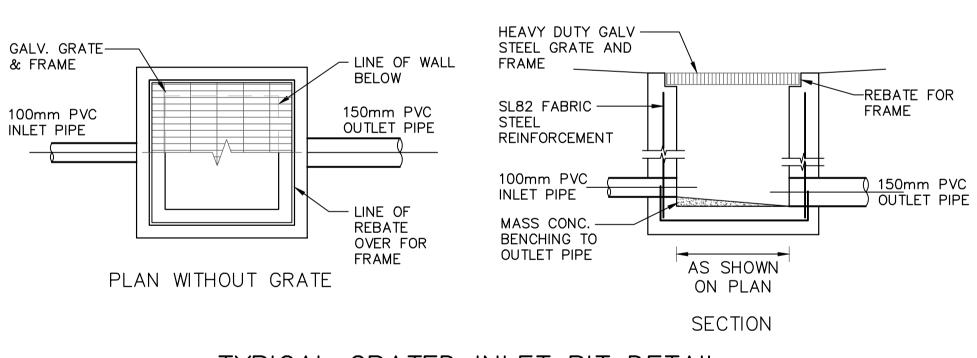
PROPOSED RETAINING WALL



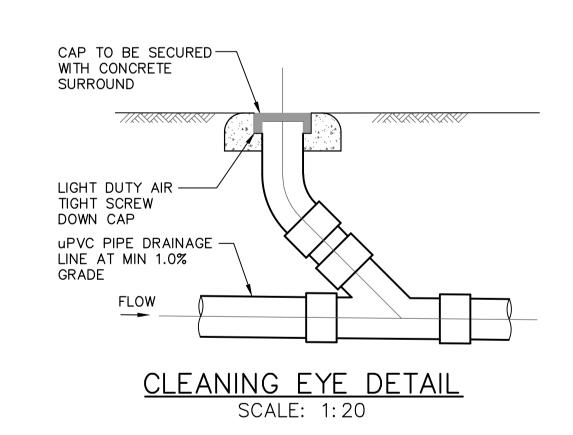
Revision B







TYPICAL GRATED INLET PIT DETAIL SCALE: 1:20



DESIGN NOTES:

SITE IS LOCATED IN CANTERBURY-BANKSTOWN COUNCIL AND IS GOVERNED BY THE CANTERBURY-BANKSTOWN DCP 2023.

OSD IS NOT REQUIRED AS TOTAL IMPERVIOUS AREA IS 64% (<66%), AS PER SECTION 4.1 OF COUNCILS DCP.

RAINWATER TANK TO BE EQUIPPED WITH FIRST FLUSH AND MOSQUITO PROTECTION DEVICES (REFER DETAIL).

ALL STORMWATER PIPES TO HAVE A MINIMUM OF 100mm CONCRETE OR

INSTALL CLEAR OUT FOR INSPECTION AND MAINTENANCE PURPOSES WHERE REQUIRED (TYP). ALL DOWNPIPES AND STORMWATER PIPES SHOWN ON PLAN ARE Ø100mm

uPVC AND SLOPE AT 1% U.N.O (TYP). PROPOSED DOWNPIPE LOCATIONS ARE NOMINAL AND TO BE CONFIRMED

DURING CONSTRUCTION (TYP). ALL STORMWATER PITS AND PIPES TO BE A MINIMUM OF 0.6m CLEAR

FROM EXISTING SEWER LINE (TYP). ALLOW FOR FILL & MINOR REGRADING OF FINISHED SURFACE TO

ARCHIVE NOMINATED REDUCED LEVEL OF GRATED SURFACE INLET PITS, WHERE REQUIRED (TYP).

PROVIDE SUBSOIL DRAINAGE WITHIN LANDSCAPED AREAS & BEHIND RETAINING WALLS TO PREVENT LONG TERM SATURATION DURING PROLONGED WET WEATHER.

CHARGED LINES:

ALL CHARGED LINES SHALL BE MIN. 100mm SEWER GRADE uPVC FROM CONNECTION POINT TO THE GUTTER INVERT LEVEL.

ALL EXPOSED PIPEWORK SHALL BE PAINTED IN A COLOUR TO COMPLIMENT THE DEVELOPMENT AND TO PROTECT AGAINST ULTRA-VIOLET LIGHT DAMAGE FROM THE SUN.

ALL JOINTS WITHIN THE CHARGED SYSTEM MUST BE SOLVENT WELDED AND PRESSURE TESTED IN ACCORDANCE WITH AS3500.3.

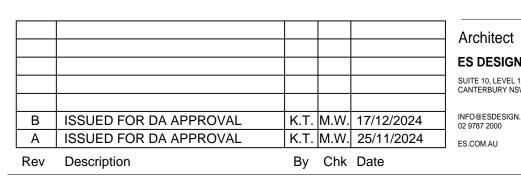
CLEAR-OUT POINTS (IN ADDITION TO THOSE SHOWN ON PLAN) SHALL BE PROVIDED AT 20m INTERVALS AND AT CRITICAL BENDS WITHIN THE CHARGED SYSTEM.

PROPOSED DUAL OCCUPANCY

107 TOMPSON STREET PANANIA NSW 2213

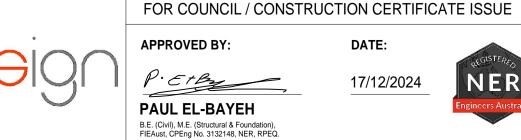


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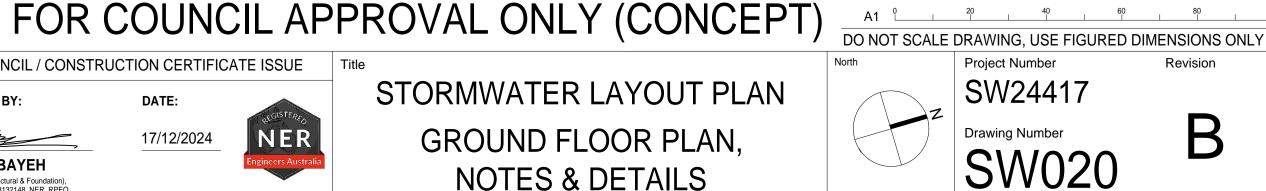
SCALE 1:100

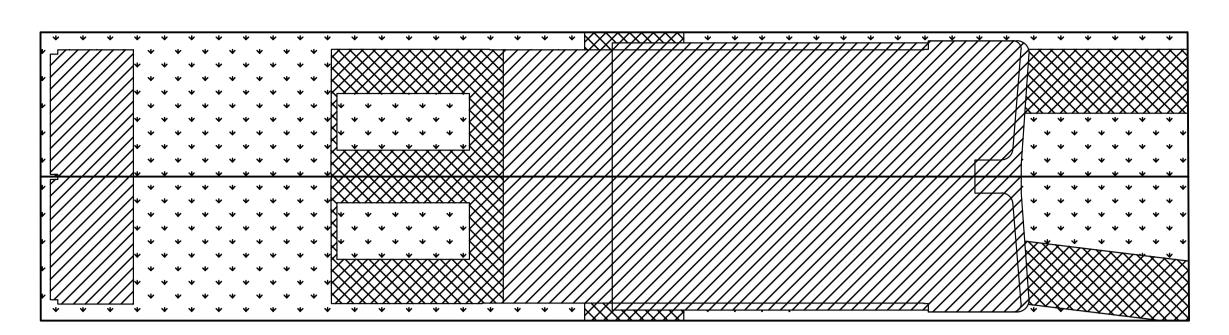
ES DESIGN SUITE 10. LEVEL 1/1 COOKS





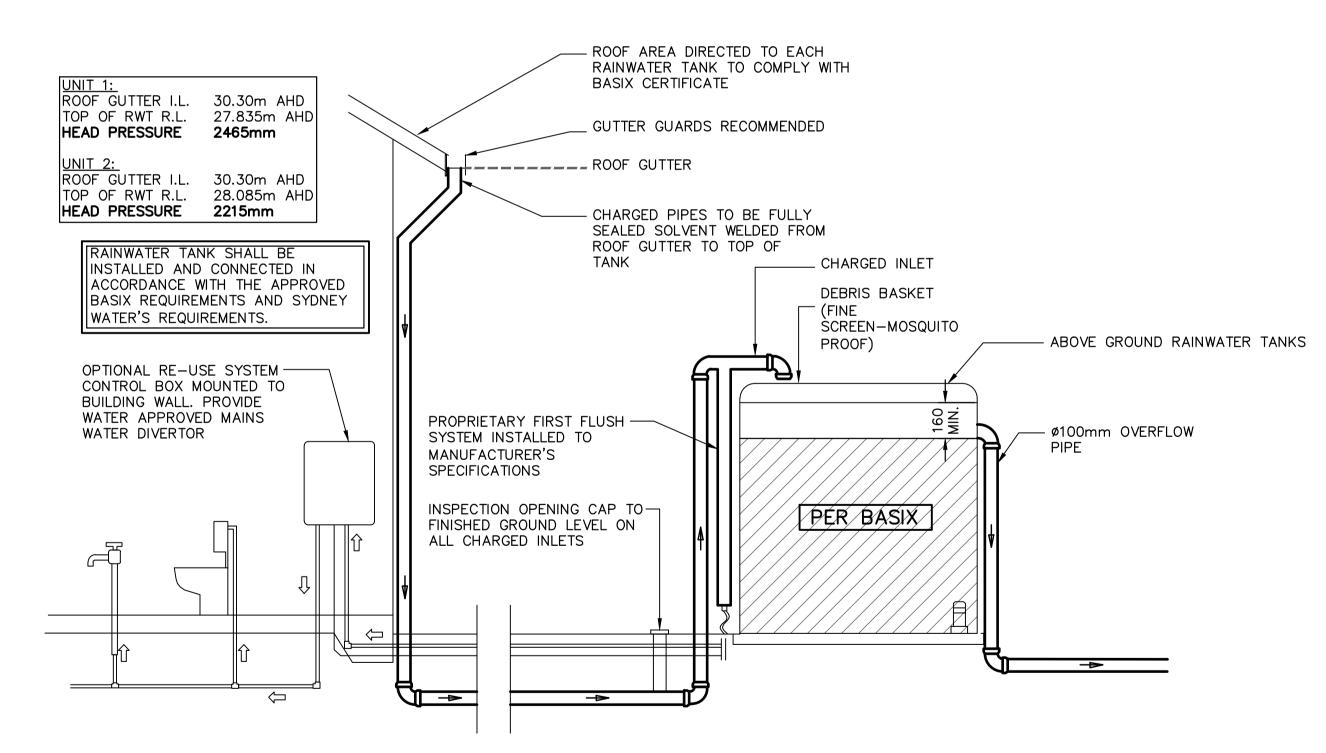
STORMWATER LAYOUT PLAN GROUND FLOOR PLAN, **NOTES & DETAILS**



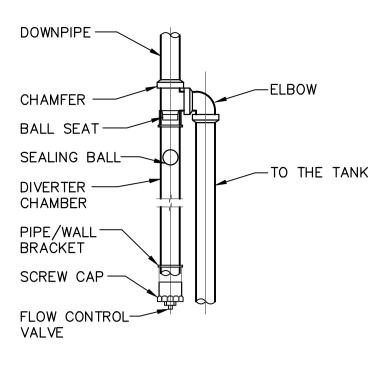


POST-DEVELOPED CATCHMENT PLAN SCALE 1:200

UNIT 1 - ROOF AREA = 222.4 Sq.m (48%) UNIT 2 - ROOF AREA = 222.6 Sq.m (48%) UNIT 1 - HARDSTAND AREA = 72.0 Sq.m (16%) UNIT 2 - HARDSTAND AREA = 72.3 Sq.m (16%) UNIT 1 - PERVIOUS AREA = 168.1 Sq.m (36%) UNIT 2 - PERVIOUS AREA = 167.6 Sq.m (36%) UNIT 1 - TOTAL AREA = 462.5 Sq.m UNIT 2 - TOTAL AREA = 462.5 Sq.m



TYPICAL RAINWATER RE-USE TANK CONFIGURATION NOT TO SCALE



FIRST FLUSH DIVERTER SCALE: 1:20

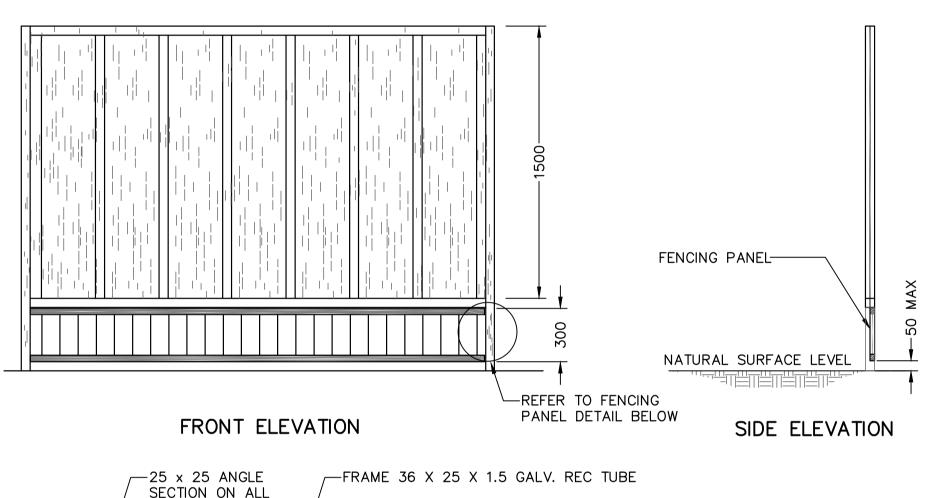


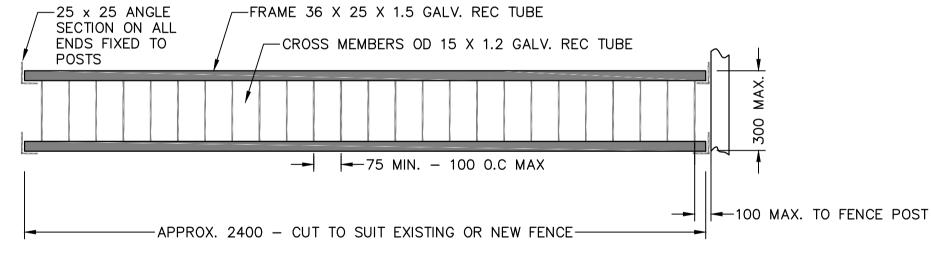
RAINWATER SIGN DETAIL

SCALE: 1:10

NOTES: -

- PROVIDE WARNING SIGN IN ACCORDANCE WITH AS 1319 IN A CLEAR AND VISIBLE LOCATION AT
- ALL RAINWATER SUPPLY POINTS - BACKGROUND IS YELLOW TEXT IS WHITE ON BLACK BACKGROUND





FENCING PANEL DETAIL FENCING PANEL COLOUR - POWDER COATED TO SUIT SITE (BLACK OR DARK GREEN)

ALL NEW FENCING ALONG FLOOD ZONE MUST BE FLOOD-TYPE FENCING AT NATURAL GRADE

OVERLAND FLOW/ FLOOD-TYPE FENCING SCALE NOT TO SCALE

NOTES: -

- ALL NEW FENCING ALONG FLOOD ZONE MUST BE FLOOD-TYPE FENCING AT NATURAL GRADE

NER

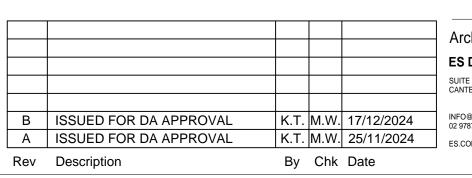
- NO CUT OR FILL IS PERMITTED WITHIN THE FLOOD ZONE WITHOUT PRIOR WRITTEN PERMISSION FROM COUNCIL OR THE DESIGN ENGINEER - NO RETAINING WALLS ARE PERMITTED WITHIN THE FLOOD ZONE WITHOUT PRIOR WRITTEN PERMISSION FROM COUNCIL OR THE DESIGN ENGINEER

PROPOSED DUAL OCCUPANCY

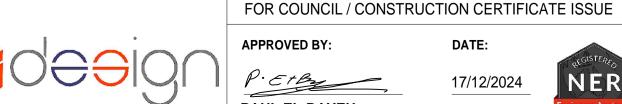
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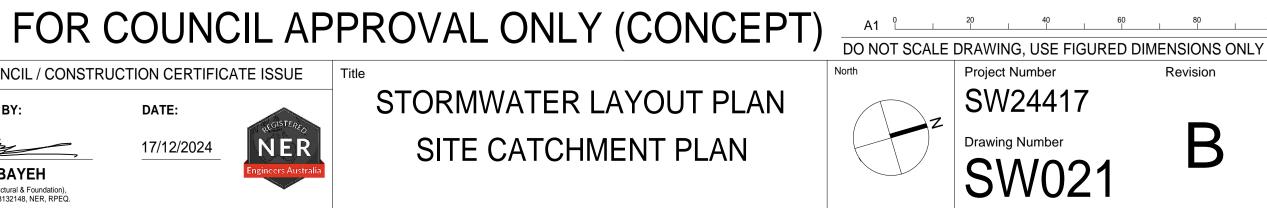


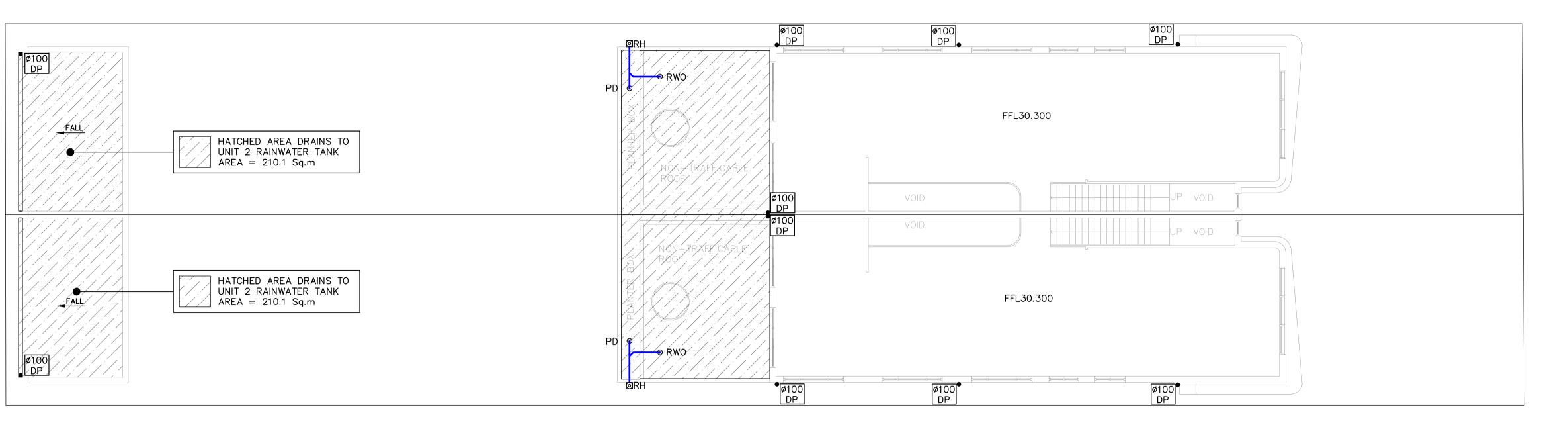
Architect **ES DESIGN**



DATE: 17/12/2024 **PAUL EL-BAYEH** B.E. (Civil), M.E. (Structural & Foundation), FIEAust, CPEng No. 3132148, NER, RPEQ.

STORMWATER LAYOUT PLAN SITE CATCHMENT PLAN





STORMWATER LAYOUT PLAN FIRST FLOOR SCALE 1:100

HATCHED AREA DRAINS TO UNIT 2 RAINWATER TANK AREA = 210.1 Sq.mHATCHED AREA DRAINS TO UNIT 2 RAINWATER TANK AREA = 210.1 Sq.m

FIRST FLOOR & ROOF NOTES:

INSTALL 50mm uPVC SPITTER PIPES 20mm ABOVE SURFACE LEVEL FOR BALCONY AND CONCRETE ROOF AREAS TO ALLOW FOR EMERGENCY OVERFLOW INCASE OF BLOCKAGES DURING HEAVY STORMS. PLUMBER TO CONFIRM LOCATION DURING CONSTRUCTION.

ALL BUILDING AND HYDRAULIC SERVICES TO BE PROPERLY CO-ORDINATED WITH STORMWATER PIPES AND ENSURE NO CLASHES ARE PRESENT DURING CONSTRUCTION (TYP).

STORMWATER PIPE ARRANGEMENT TO BE CO-ORDINTED WITH STRUCTURAL SLAB AND BEAMS WHERE REQUIRED (TYP).

BALCONY, TERRACE & CONCRETE ROOF AREAS TO SLOPE TOWARDS RAINWATER OUTLETS WHERE REQUIRED (TYP).

ARROW DENOTES THE SLOPE OF FINISHED SURFACE LEVEL (TYP).

DOWNPIPES SHOWN ON PLAN ARE TO BE Ø100mm uPVC U.N.O. (TYP).

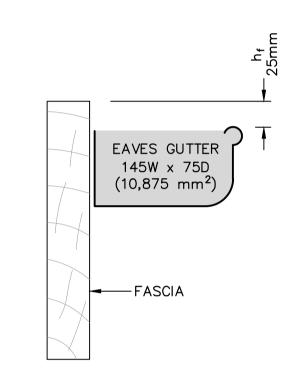
ALL EAVES GUTTERS SHALL BE 145mm WIDE x 75mm DEEP (OR EQUIVALENT) AND LAID AT MIN. 1:500 SLOPE.

ALL GUTTERS TO BE FITTED WITH ADEQUATE OVERFLOW MEASURES IN ACCORDANCE WITH AS3500.3: 2018.

PROPOSED DOWNPIPE LOCATIONS ARE NOMINAL AND TO BE CONFIRMED DURING CONSTRUCTION (TYP).

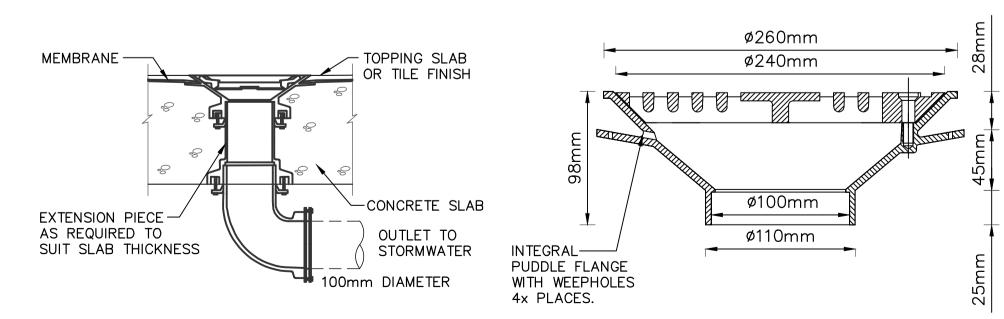
INSTALL DOWNPIPE WITH SPREADER (IF REQUIRED) TO DISPERSE STORMWATER ONTO LOWER ROOF AREAS EFFECTIVELY.

PROVIDE SURFACE DRAINAGE FOR ALL CONCRETE AND BALCONY ROOF AREAS WHERE REQUIRED.



TYPICAL EAVES GUTTER DETAIL (LOW FRONT) NOT TO SCALE

STORMWATER LAYOUT PLAN ROOF LEVEL SCALE 1:100



RAINWATER OUTLET DETAIL SCALE: 1:10

MIN. Ø100 SAFETY OVERFLOW WITH SCREW CAP CLEARING ACCESS FOR MAINTENANCE OF FLOOR GRATE BELOW TWO LAYERS OF COUNCIL APPROVED -ONE LAYER OF COUNCIL FILTER FABRICTURN UP SIDES APPROVED FILTER FABRIC 300mm MIN. BETWEEN GARDEN MIX & AUSTRALIAN DRAINAGE MODULES -GRANULAR FILL Jugan Myray (OR EQUAL) WITH GEOFABRIC LAID ø100 SLOTTED PVC RISER **ÖVER & DRAIN LAID ON THE** BASE OF PLANTER BOX ON WRAPPED IN FILTER FABRIC BENCHING WITH FALLS GARDEN MIX -MIN. 200mm GRANULAR FILL WATERPROOF MEMBRANE AT BASE OF PLANTER BOX REFER TO ARCHITECTS SPS PLANTER DRAIN OUTLET DRAWINGS FOR DETAILS WITH MEMBRANE CLAMP, PUDDLE FLANGE, BODY CAST CONCRETE BENCHING INTO SLAB (PD) TO ACHEIVE 1% BASE FALL TO OUTLET -OUTLET - PIPE SIZE AS SPS BD50/65 CAST IRON SPECIFIED ON PLANS ROOF DRAIN WITH MEMBRANE CLAMP. PIPE & BODY CAST

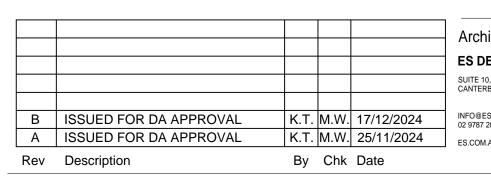
PLANTER DRAIN WITH VERTICAL OVERFLOW PROVISION (PD)

SCALE 1:20

PROPOSED DUAL OCCUPANCY 107 TOMPSON STREET PANANIA NSW 2213



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Architect **ES DESIGN PAUL EL-BAYEH** B.E. (Civil), M.E. (Structural & Foundation), FIEAust, CPEng No. 3132148, NER, RPEQ.

FOR COUNCIL / CONSTRUCTION CERTIFICATE ISSUE **APPROVED BY:** DATE: 17/12/2024

NER

STORMWATER LAYOUT PLAN FIRST FLOOR & ROOF PLAN, **NOTES & DETAILS**

INTO SLAB (SPD)

