

HYDRAULIC SERVICES - SEWER - GROUND FLOOR PLAN
SCALE: 1:100 @ A1

HYDRAULIC SERVICES - SEWER - FIRST FLOOR PLAN
SCALE: 1:100 @ A1

SYMBOL	DESCRIPTION
	REDUNDANT SEWER PIPEWORK.
	EXISTING SEWER PIPEWORK TO REMAIN.
	NEW SEWER PIPEWORK. SIZE AS STATED.
	NEW GREASE WASTE PIPEWORK. SIZE AS STATED.
	NEW SEWER VENT PIPEWORK. SIZE AS STATED.
	NEW PUMPED SEWER MAIN.
	EXISTING SEWER CONNECTION.
	NEW SEWER CONNECTION.
	EXPANSION JOINT.
	INSPECTION OPENING: INTERNAL: CHROME PLATED COVER EXTERNAL: CONCRETE OR CAST IRON COVER
	GULLY TRAP.
	SEALED GULLY TRAP.
	SILT TRAP.
	BUCKET TRAP.
	FIXTURE OUTLET.
	TRAPPED TUNDISH. 'W' DENOTED 'IN-WALL'.
	80/65mm FLOOR TRAP WASTE.
	SEALED FLOOR TRAP WASTE.
	SHOP RISER. 'GW' DENOTES GREASE WASTE. ALL SHOP RISERS TO BE INSTALLED WITH AN INVERT OF 600mm.
	ROLL OVER BELOW SLAB.
	AIR ADMITTANCE VALVE.
	RISER/DROPPER.
	RISER SIZE RISER TYPE LOCATION: A-AGAINST WALL B-BUILT/CHASED IN WALL C-BUILT IN CAVITY D-IN DUCT E-BOXED IN BY BUILDER
	INVERT LEVEL
	APPROX NATURAL GROUND LEVEL
	UNDER GROUND
	UNDER SLAB
	SERVICE MATERIAL
	PVC PRESSURE PIPE
	POLYETHYLENE
	HIGH DENSITY POLYETHYLENE

A	BUILDING APPROVAL ISSUE	MW/ MDE	GJC	07.09.18
No	REVISION	DRAWN	CHE'KD	DATE

PROJECT
PROPOSED RESIDENTIAL
DEVELOPMENT
AT: 419 REGENCY ROAD
PROSPECT
FOR: NIATRON 10 PTY LTD

DRAWING TITLE
HYDRAULIC SERVICES - SEWER - GRND & 1ST

Civil

Environmental

Mechanical

Fire

Lifts

Structural

Geotechnical

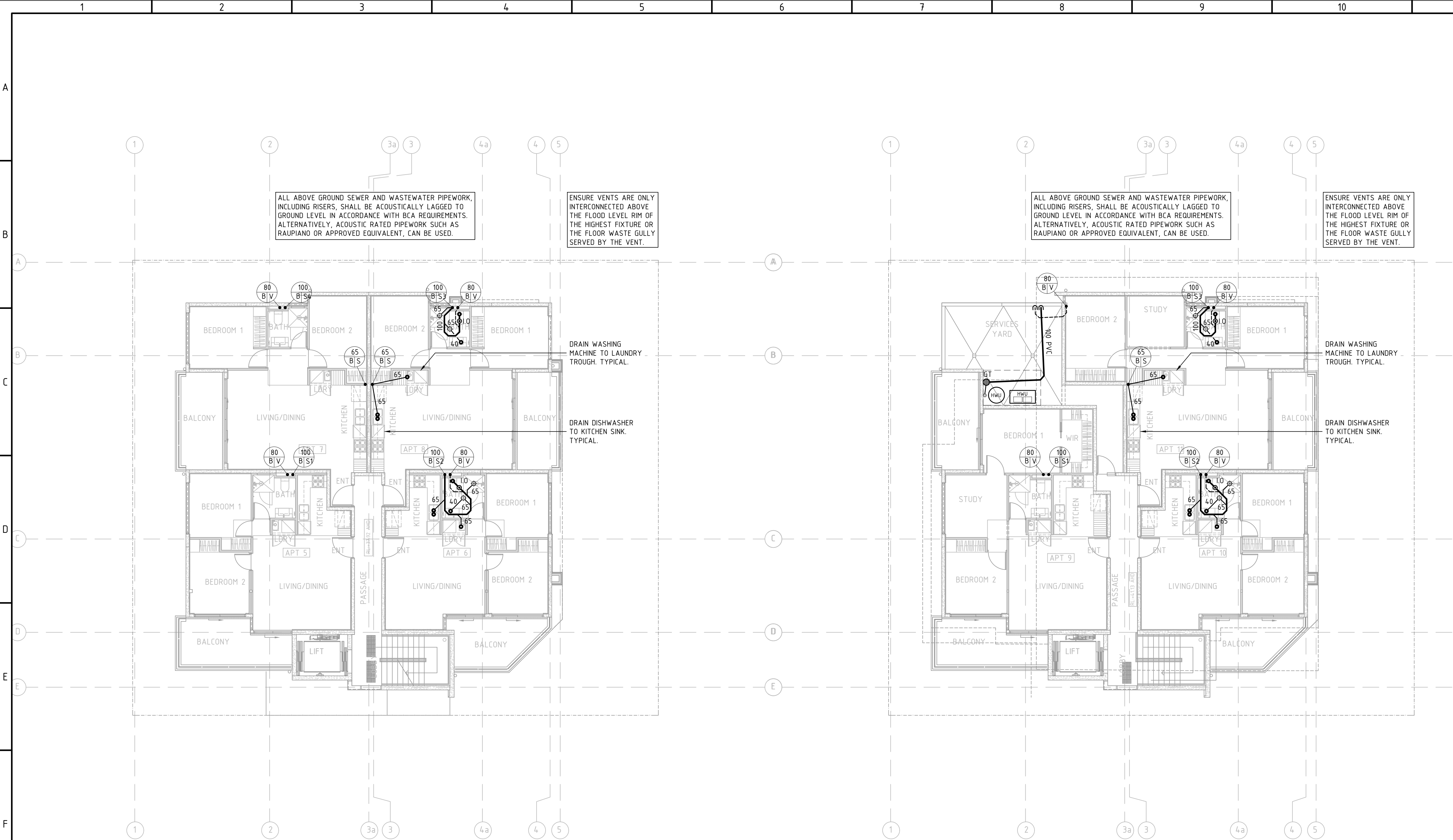
Electrical

Hydraulics

Green ESD

Level 6, 100 Pirie Street,
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HYDRAULIC SERVICES - SEWER - SECOND FLOOR PLAN
SCALE: 1:100 @ A1

HYDRAULIC SERVICES - SEWER - THIRD FLOOR PLAN
SCALE: 1:100 @ A1

SEWER LEGEND	
SYMBOL	DESCRIPTION
	REDUNDANT SEWER PIPEWORK.
	EXISTING SEWER PIPEWORK TO REMAIN.
	NEW SEWER PIPEWORK. SIZE AS STATED.
	NEW GREASE WASTE PIPEWORK. SIZE AS STATED.
	NEW SEWER VENT PIPEWORK. SIZE AS STATED.
	NEW PUMPED SEWER MAIN.
	EXISTING SEWER CONNECTION.
	NEW SEWER CONNECTION.
	EXPANSION JOINT.
	INSPECTION OPENING: INTERNAL: CHROME PLATED COVER EXTERNAL: CONCRETE OR CAST IRON COVER
	GULLY TRAP.
	SEALED GULLY TRAP.
	SILT TRAP.
	BUCKET TRAP.
	FIXTURE OUTLET.
	TRAPPED TUNDISH. 'W' DENOTED 'IN-WALL'
	80/65mm FLOOR TRAP WASTE.
	SEALED FLOOR TRAP WASTE.
	SHOP RISER. 'GW' DENOTES GREASE WASTE. ALL SHOP RISERS TO BE INSTALLED WITH AN INVERT OF 600mm.
	ROLL OVER BELOW SLAB.
	AIR ADMITTANCE VALVE.
	RISER/DROPPER.
	RISER SIZE RISER TYPE LOCATION: A-AGAINST WALL B-BUILT/CHASED IN WALL C-BUILT IN CAVITY D-IN DUCT E-BOXED IN BY BUILDER
	IL 107.980 GL 108.910 INVERT LEVEL APPROX NATURAL GROUND LEVEL
	U/G UNDER GROUND
	U/S UNDER SLAB
SERVICE MATERIAL	
	PVC PRESSURE PIPE
	POLYETHYLENE
	HIGH DENSITY POLYETHYLENE

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DRAWING TITLE
HYDRAULIC SERVICES - SEWER - 2ND & 3RD

Civil
Environmental
Mechanical
Fire
Lifts

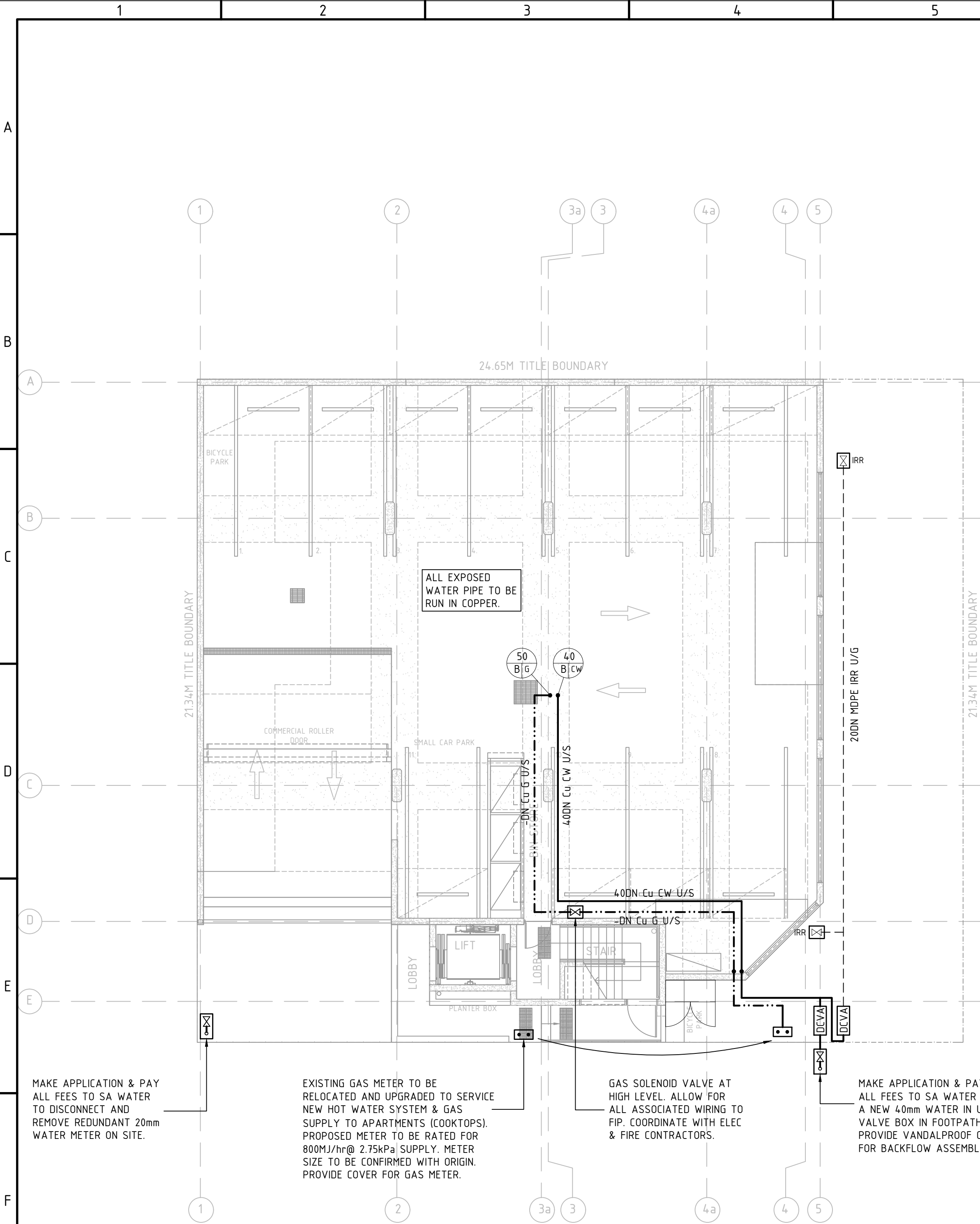
Structural
Geotechnical
Electrical
Hydraulics
Green ESD

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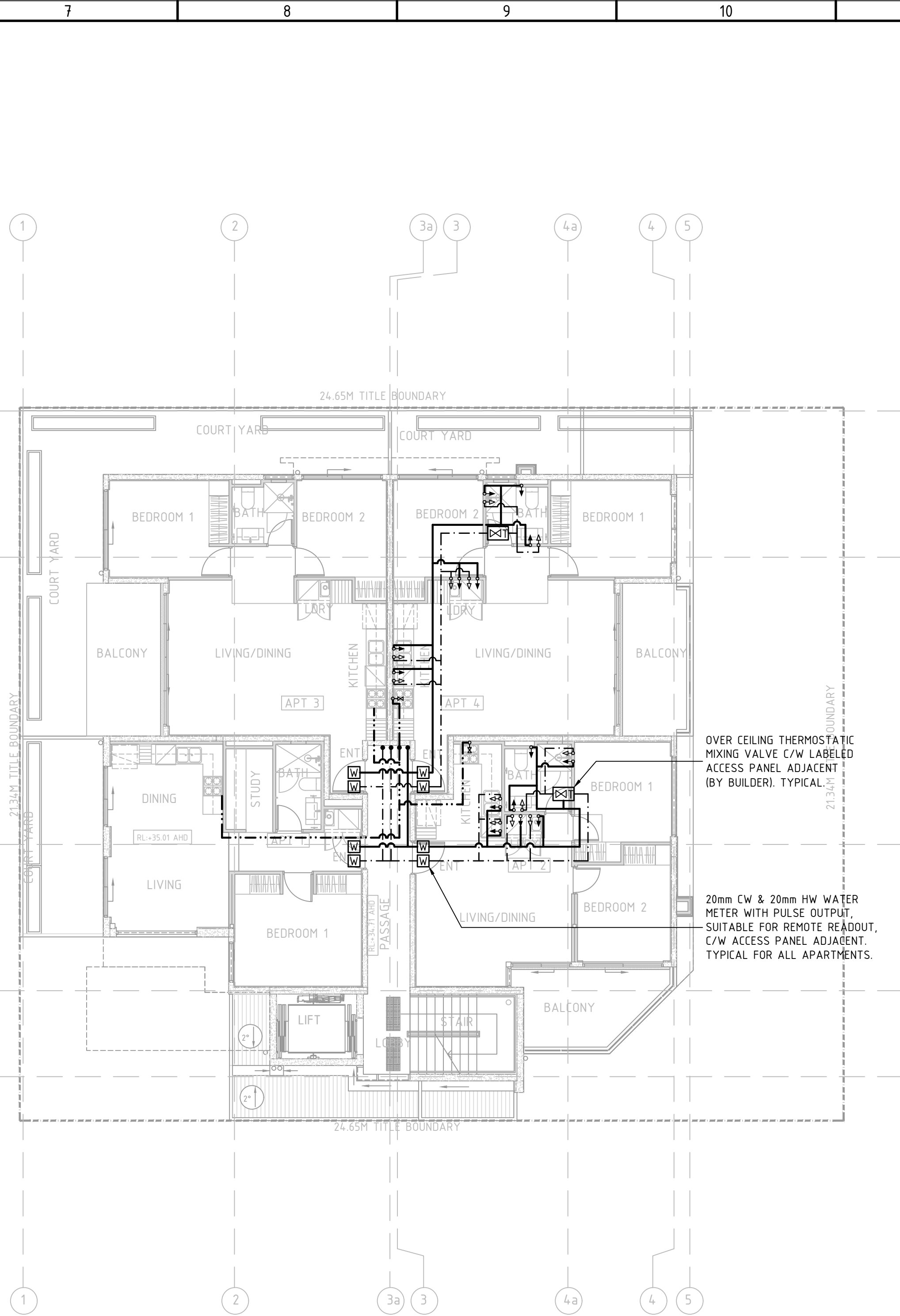
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0 10 20 30 40 50 100mm



HYDRAULIC SERVICES - WATER - GROUND FLOOR PLAN
SCALE: 1:100 @ A1



HYDRAULIC SERVICES - WATER - FIRST FLOOR PLAN
SCALE: 1:100 @ A1

WATER AND GAS LEGEND	
SYMBOL	DESCRIPTION
CW	COLD WATER PIPEWORK.
HS	HOT WATER SUPPLY PIPEWORK.
HR	HOT WATER RETURN PIPEWORK.
TW	TEMPERED WATER PIPEWORK.
RW	RECLAIMED WATER PIPEWORK.
GP	GAS PIPEWORK.
GM	GAS METER.
WM	WATER METER.
IRR	20 DN VALVE BOX FOR IRRIGATION.
ISV	ISOLATING VALVE OVER CEILING.
TMV	THERMOSTATIC MIXING VALVE OVER CEILING.
WV	WALL RECESSED VALVE BOX THERMOSTATIC MIXING/ISOLATION VALVE C/W/HW DENOTES DN 20 SUPPLY.
ISV	WALL RECESSED VALVE BOX ISOLATION (C/W/HW ONLY) DENOTES DN 25 SUPPLIES AND VALVES.
SCVA	SINGLE CHECK VALVE ASSEMBLY.
DCVA	DOUBLE CHECK VALVE ASSEMBLY.
CWS	COLD WATER SUPPLY.
HWS	HOT WATER SUPPLY.
SSB	20 S N.B.C. C/W HOSE CONNECTOR SYPHON BREAKER.
WMI	WALL MOUNTED ISOLATION VALVE.
HU	HOT WATER UNIT.
BU	BOILING WATER UNIT.
CBWU	CHILLED / BOILING WATER UNIT.
FU	FILTRATION WATER UNIT.
RD	RISER/DROPPER.
25 B/CW	RISER SIZE RISER TYPE LOCATION: <ul style="list-style-type: none">A-AGAINST WALLB-BUILT/CHASED IN WALLC-BUILT IN CAVITYD-IN DUCTE-BOXED IN BY BUILDER
U/G	UNDER GROUND
U/S	UNDER SLAB
U/C	UNDER CEILING
U/R	UNDER ROOF
O/R	OVER ROOF
O/C	OVER CEILING
SERVICE MATERIAL	
Cu	TYPE B COPPER
RE	REHAU
PE-X	CROSS LINK POLYETHYLENE
PE	POLYETHYLENE
HDPE	HIGH DENSITY POLYETHYLENE


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HYDRAULIC SERVICES - WATER - GRND & 1ST

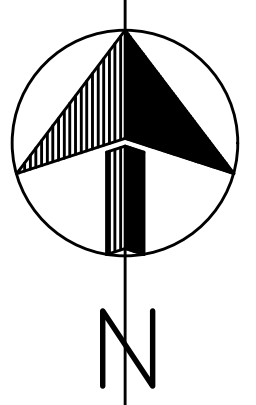
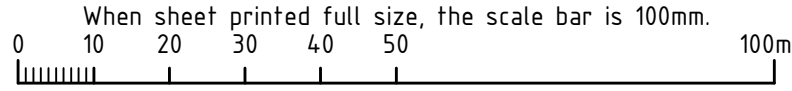
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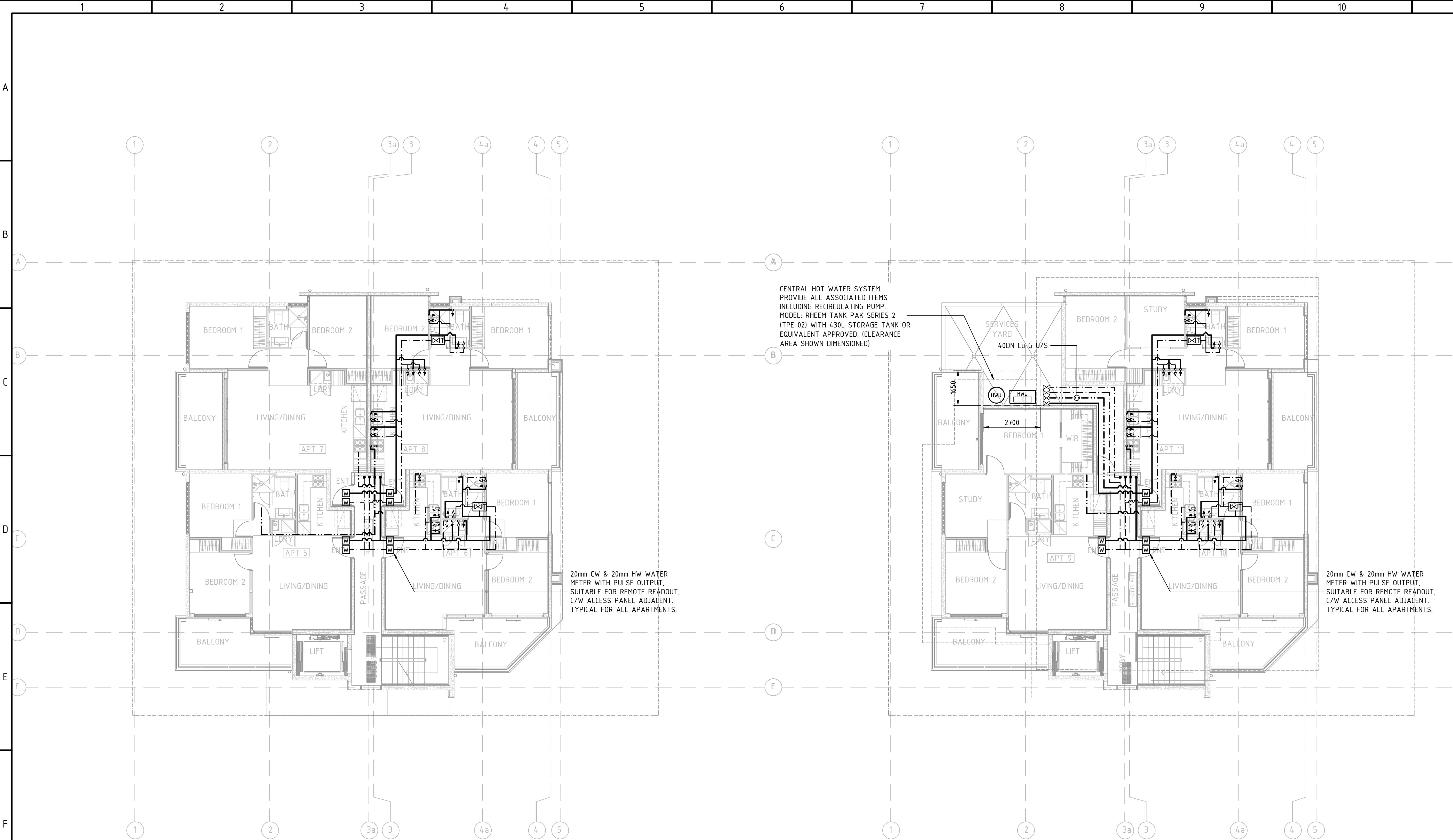
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HYDRAULIC SERVICES - WATER - SECOND FLOOR PLAN
SCALE: 1:100 @ A1

HYDRAULIC SERVICES - WATER - THIRD FLOOR PLAN
SCALE: 1:100 @ A1

WATER AND GAS LEGEND

SYMBOL	DESCRIPTION
CW	COLD WATER PIPEWORK.
HS	HOT WATER SUPPLY PIPEWORK.
HR	HOT WATER RETURN PIPEWORK.
TW	TEMPERED WATER PIPEWORK.
RW	RECLAIMED WATER PIPEWORK.
G	GAS PIPEWORK.
GM	GAS METER.
WM	WATER METER.
IRR	20 DN VALVE BOX FOR IRRIGATION.
IV	ISOLATING VALVE OVER CEILING.
TMV	THERMOSTATIC MIXING VALVE OVER CEILING.
WV	WALL RECESSED VALVE BOX THERMOSTATIC MIXING/ISOLATION VALVE CW/HW DENOTES DN 20 SUPPLY.
ISOL	WALL RECESSED VALVE BOX ISOLATION (CW/HW) ONLY DENOTES DN 25 SUPPLIES AND VALVES.
SCVA	SINGLE CHECK VALVE ASSEMBLY.
DCVA	DOUBLE CHECK VALVE ASSEMBLY.
CWS	COLD WATER SUPPLY
HWS	HOT WATER SUPPLY
S&B/C	20 S&B/C C/W HOSE CONNECTOR SYPHON BREAKER
WIV	WALL MOUNTED ISOLATION VALVE.
HU	HOT WATER UNIT.
BWU	BOILING WATER UNIT.
CBWU	CHILLED / BOILING WATER UNIT.
FWU	FILTRATION WATER UNIT.
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25 B/CW	RISER SIZE RISER TYPE LOCATION: <ul style="list-style-type: none">A-AGAINST WALLB-BUILT/CHASED IN WALLC-BUILT IN CAVITYD-IN DUCTE-BOXED IN BY BUILDER
U/G	UNDER GROUND
U/S	UNDER SLAB
U/C	UNDER CEILING
U/R	UNDER ROOF
O/R	OVER ROOF
O/C	OVER CEILING
SERVICE MATERIAL	
Cu	TYPE B COPPER
RE	REHAU
PE-X	CROSS LINK POLYETHYLENE
PE	POLYETHYLENE
HDPE	HIGH DENSITY POLYETHYLENE

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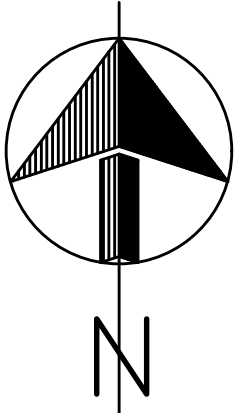
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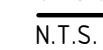
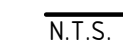
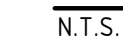
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