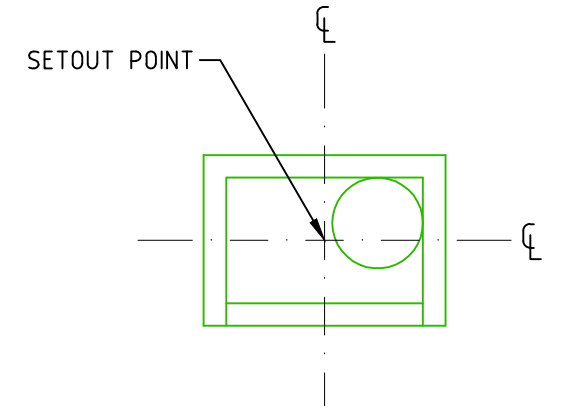


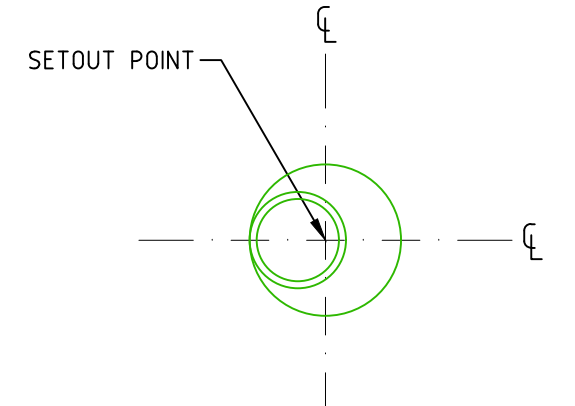
GENERAL NOTES

- ALL WORK ON ICON WATER WATER SUPPLY AND SEWER MAINS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT ICON WATER, WATER SUPPLY & SEWERAGE STANDARDS RELEASE 2, AMENDMENT 5 SEPTEMBER 2012. ALL WORK ON STORMWATER MAINS TO BE CARRIED OUT IN ACCORDANCE WITH DESIGN STANDARDS FOR URBAN INFRASTRUCTURE AND STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.
- CONNECTIONS AND OR DISCONNECTIONS OF SEWER AND WATER AT THE MAIN TO BE MADE BY ICON WATER AT CONTRACTOR'S EXPENSE. THE CONTRACTOR IS TO EXPOSE THE MAIN AT THE LOCATION OF THE CONNECTION/DISCONNECTION IN PREPARATION FOR THE WORK BY ICON WATER. ALL EXCAVATION IN THE VICINITY OF MAINS IS TO BE CARRIED OUT BY HAND.
- THE CONTRACTOR MUST VISIT THE SITE OF WORKS BEFORE TENDERING AND MAKE ALLOWANCES IN HIS TENDER FOR ALL TOPOGRAPHIC CONSTRAINTS AFFECTING THE EXECUTION OF THE WORKS AND THE RESTORATION OF THE SITE.
- ALTHOUGH THE POSITIONS OF EXISTING UNDERGROUND SERVICES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS, THE CONTRACTOR SHALL CONFIRM THE DEPTH AND LOCATION OF ALL SERVICES ON SITE BEFORE COMMENCING EXCAVATIONS. CONTRACTOR TO ADVISE DESIGN ENGINEER IF NOT IN ACCORDANCE WITH THE PLAN.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD). ALL COORDINATES ARE BASED ON THE CANBERRA LOCAL GRID SYSTEM.
- THE CONTRACTOR MUST SECURE ALL PERMITS, ARRANGE ALL CLEARANCES AND PAY ALL FEES REQUIRED TO COMPLETE THE PROJECT BEFORE COMMENCING WORK.
- WORK AS EXECUTED DRAWINGS, THE BOOK AND DEPOSITED PLAN MUST BE SUBMITTED BEFORE CONNECTION.
- ANY NON-METALLIC WATER SERVICE IS TO BE INSTALLED WITH TRACER WIRE AND TESTED.
- EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED SPOIL AREA.
- THE CONTRACTOR SHALL REINSTATE ALL DISTURBED SURFACES TO MATCH EXISTING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY TEMPORARY TRAFFIC MANAGEMENT PLANS AND THEIR APPROVAL.
- CONTRACTOR TO CONFIRM DEPTH OF SEWER AND STORMWATER TIE POINTS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ADVISE DESIGN ENGINEER IF NOT IN ACCORDANCE WITH PLAN.

MINIMUM CLEARANCES	
SERVICES	CLEARANCE (mm)
HORIZONTAL	
ALL SERVICES	600
VERTICAL	
SEWER	150
WATER MAINS	150
TELECOMMUNICATIONS	150
HIGH PRESSURE GAS	300
LOW PRESSURE GAS	150
HIGH VOLTAGE ELECTRICITY	300
LOW VOLTAGE ELECTRICITY	150



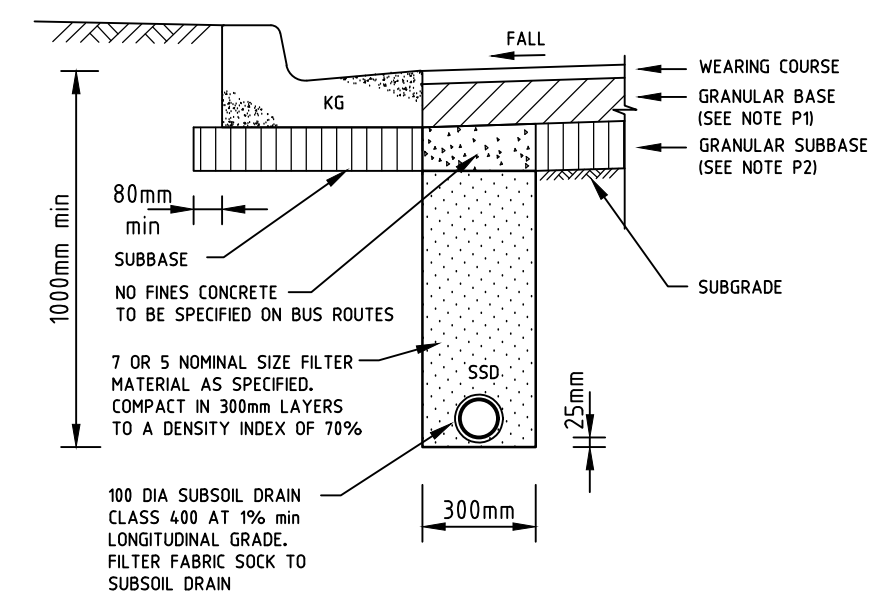
TYPICAL SUMP SETOUT
NOT TO SCALE



TYPICAL MANHOLE SETOUT
NOT TO SCALE

SUB-SOIL DRAINAGE SYMBOLS

- FP ○ FLUSH POINT
- IO ○ INSPECTION OPENING

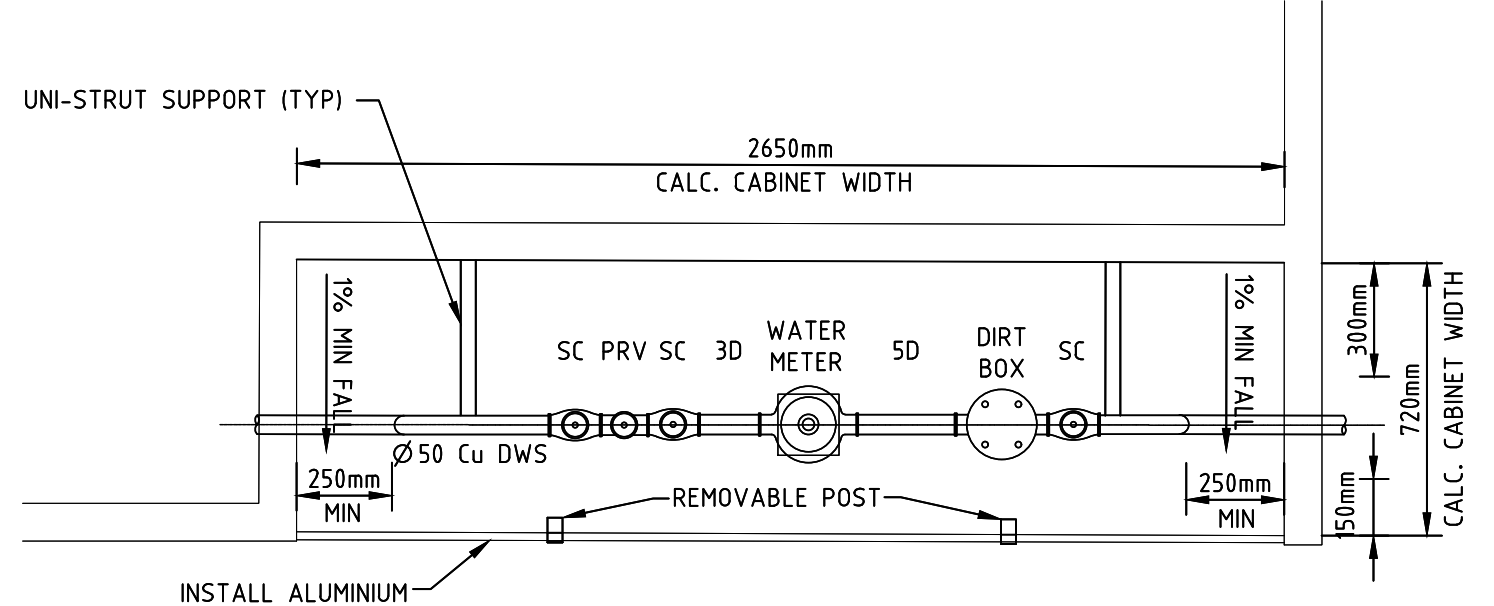


- SUBSOIL DRAIN SHALL BE CONSTRUCTED PRIOR TO CONSTRUCTING THE KERB.
- SUBSOIL DRAIN SHALL BE EXTENDED TO UNDERSIDE OF BASE COURSE MATERIAL.

SUBSOIL DRAIN IN GRANULAR PAVEMENT DETAIL
NOT TO SCALE

SERVICE LINES

EXISTING	
S	SEWER
SW	STORMWATER
SSD	SUBSOIL DRAINAGE
W	WATER
E	ELECTRICAL
T	COMMUNICATIONS
G	GAS
PROPOSED	
S	SEWER
SW	STORMWATER
SSD	SUBSOIL DRAINAGE
W	WATER
E	ELECTRICAL
T	COMMUNICATIONS
G	GAS
X	ABANDON



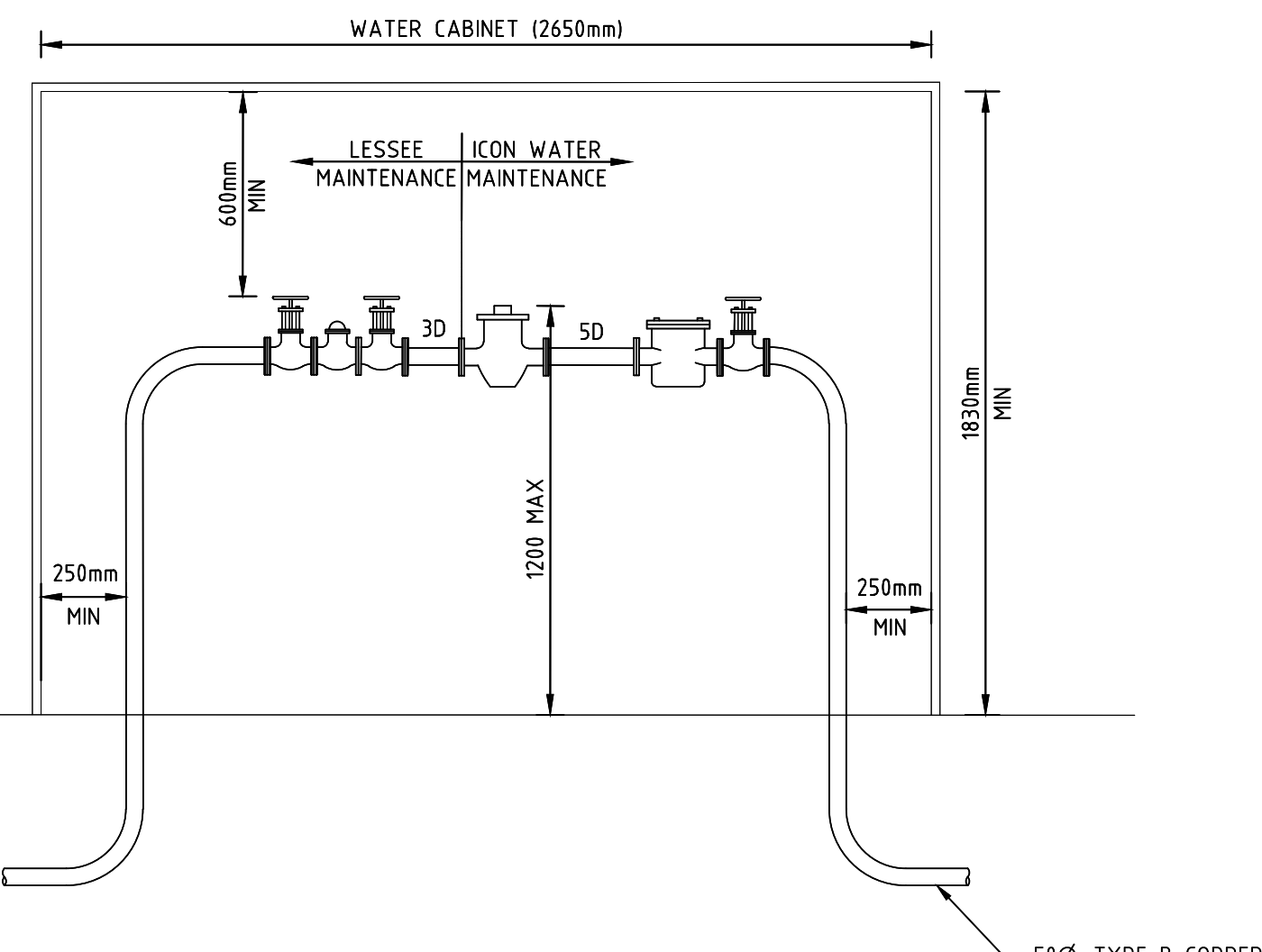
PLAN
SCALE 1:20

WATER METER PIT NOTES

- CLEARANCES FROM ELECTRICAL SERVICES TO BE 600mm MINIMUM HORIZONTALLY.
- FOR NONMETALLIC PIPE, 1mm PVC COATED TRACER WIRE IS TO BE TAPED TO THE PIPE AND WOUND 3 TIMES AROUND THE COPPER RISER. THEN ATTACHED BENEATH THE METER BALL VALVE USING A COPPER OR BRASS CLAMP. AT THE WATER MAIN A BARBED AND TWISTED TRACER WIRE CONNECTION IS TO BE MADE WITH THE WATER MAIN. TRACE WIRE ON NONMETALLIC MAINS, OR ON TO THE MAINS COCK ON METALLIC MAINS. ELECTRICAL CONDUCTIVITY MUST BE TESTED ENSURING LOCATION OF NONMETALLIC SERVICES USING A METAL DETECTOR.
- MARKING TAPE TO AS2648 TO BE LAID 150mm ABOVE THE WATER SERVICE AND BROUGHT TO THE SURFACE AND TIED BELOW THE METER BALL VALVE.
- BEFORE WATER IS DRAWN FROM THE NETWORK, THE WATER METER ASSEMBLY IS TO BE INSTALLED BY A LICENSED PLUMBER AND TESTED AT 1400kPa FOR 30 MINUTES WITH ZERO LOSS.
- THE OWNER IS TO SAFEGUARD THE WATER METER ENSURING UNOBSTRUCTED ACCESS AND HAVE AT LEAST 1 METRE CLEARANCE FROM DRIVEWAYS, STRUCTURES, WALLS AND FENCING.
- ANY FENCE FOOTINGS SHALL INCORPORATE A SUITABLY SIZED CONDUIT AROUND THE WATER SERVICE.
- WHERE MAINS PRESSURE IS >500kPa THE INSTALLATION OF A 500kPa PRESSURE LIMITING VALVE MUST COMPLY WITH ACTPLA PLUMBING NOTE 23 AND AS3500.
- WHERE A BUILDING IS TO BE INSTALLED WITH ONE OR MORE FIRE HOSE REELS, THE MINIMUM DIAMETER OF THE WATER SERVICE IS TO BE 25mm. ALL BASEMENT AND GROUND FLOOR FIRE HOSE REELS MUST BE CONNECTED TO THE METERED SERVICE.
- ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
- A SUPPORT BEAM IS TO BE INSTALLED IF A SPAN OF A WATER METER PIT EXCEEDS 1.2m, REFER ICON STANDARDS.
- ALL FIRE SERVICE VALVES TO BE LOCKED IN THE OPEN POSITION.
- ALL VALVES TO BE ANTI CLOCKWISE OPENING ONLY ON ICON MAINS IN GROUND. VALVES IN METER PIT TO BE CLOCKWISE OPENING.
- PLEASE NOTE THAT ALL FITTINGS AND MAINS FOR THE WATER TIE SHALL BE SURVEYED AND DOCUMENTED AS PART OF THE WAE DOCUMENTATION.

SERVICE STRUCTURES

EXISTING		PROPOSED	
SEWER			
□	ENDCAP	□	ENDCAP
○	MANHOLE	○	MANHOLE
STORMWATER			
□	ENDCAP	□	ENDCAP
○	MANHOLE	○	MANHOLE
⊗	GRATED PIT	⊗	GRATED PIT
⊗	KERB INLET SUMP	⊗	KERB INLET SUMP
⊗	QS TYPE SUMP	⊗	QS TYPE SUMP
⊗	R TYPE SUMP	⊗	R TYPE SUMP
△	HEADWALL	△	HEADWALL
WATER			
○	HYDRANT	○	HYDRANT
○	WATER METER	○	WATER METER
○	STOP VALVE	○	STOP VALVE
○	THRUST BLOCK	○	THRUST BLOCK
ELECTRICAL			
LP	LIGHT POLE	LP	LIGHT POLE
PB	PILLAR BOX	PB	PILLAR BOX
SS	SUBSTATION	SS	SUBSTATION
PPH	POWER POLE	PPH	POWER POLE
COMMUNICATIONS			
P	PILLAR BOX	P	PILLAR BOX
PITS			
PIT	PIT	PIT	PIT
GAS			
MP	MARKER PLATE	MP	MARKER PLATE
OP	OUTLET	OP	OUTLET
PI	PIT	PI	PIT
VB	VALVE	VB	VALVE



ELEVATION/SECTION
CABINET ARRANGEMENT DETAIL
SCALE 1:20

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B A FSP FOR APPROVAL FOR REVIEW DATE 02.08.16 08.07.16 LT DRAWN								