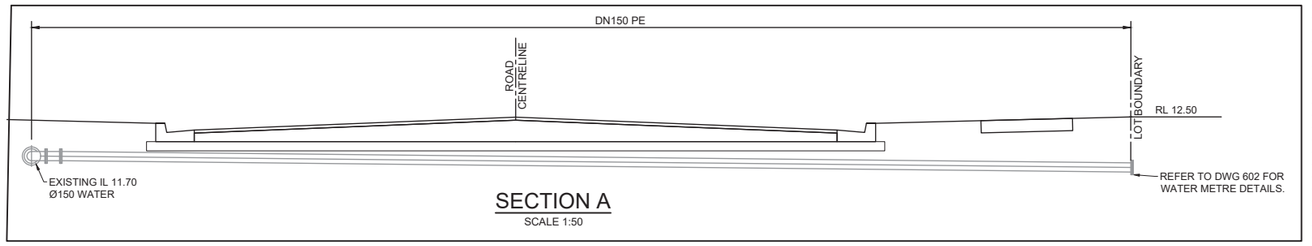
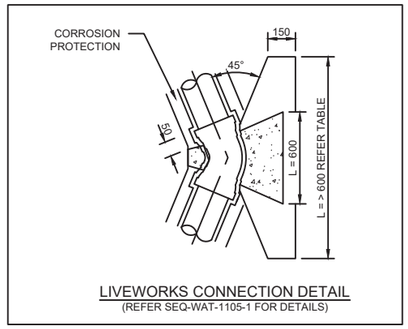
WATER FITTINGS TABLE

ITEM No.	DESCRIPTION
0	ISOLATION VALVE
1	SERVICE PIPE AND 90° BEND
2	BRANCH OFFTAKE TEE FOR DOMESTIC SERVICE
3	ISOLATION VALVE
4	PIPE (5D)
5	FIRE SERVICE WATER METER
6	PIPE (3D)
7	ISOLATION VALVE
8	BACKFLOW PREVENTION DEVICE
9	SERVICE PIPE
11	ISOLATION VALVE
12	STRAINER
13	WATER METER
14	NON RETURN VALVE
15	TEE & TESTING PORT
16	CUSTOMER ISOLATION VALVE
17	SERVICE PIPE AND 90° BEND



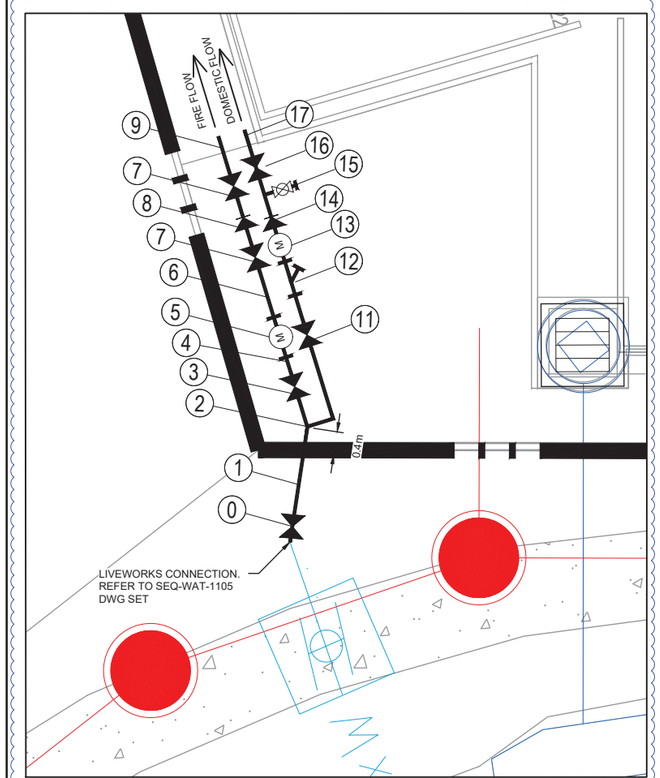
SECTION A
SCALE 1:50



LIVEWORKS CONNECTION DETAIL
(REFER SEQ-WAT-1105-1 FOR DETAILS)

LEGEND

- LOT BOUNDARY
- EXISTING KERB & GUTTER
- EXSW — EXISTING STORMWATER DRAINAGE
- ExW — EXISTING WATER MAIN
- ExS — EXISTING SEWER MAIN
- EXISTING ISOLATION VALVE
- PROPOSED ISOLATION VALVE
- PROPOSED WATER METER
- PROPOSED NEW WATER CONNECTION



INSET A
SCALE 1:50

NOTE:
ALL EXISTING SERVICES TO BE ADJUSTED TO MATCH PROPOSED SURFACE LEVELS.

FOR MORE INFORMATION
REFER TO ARCHITECT'S DETAILS

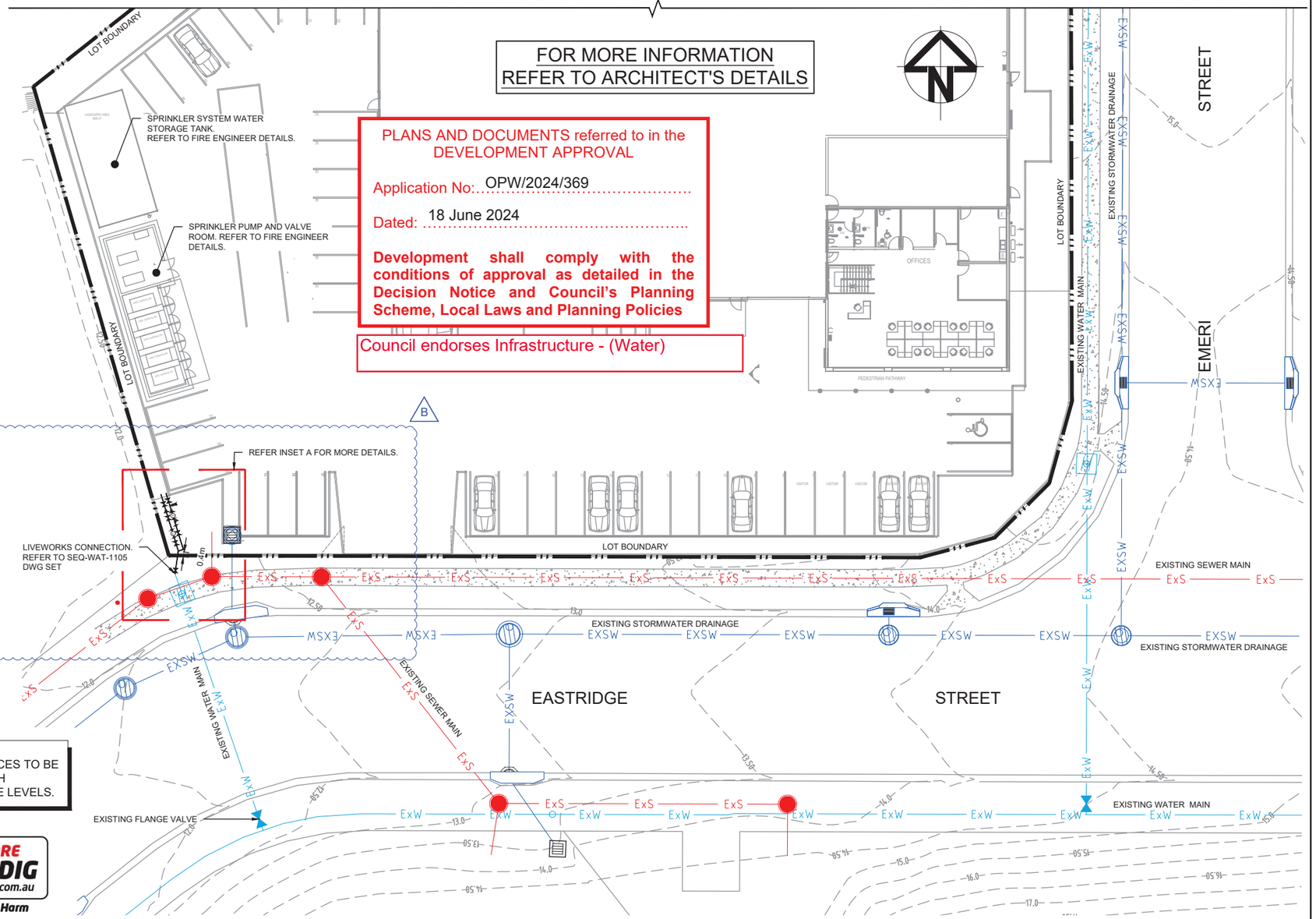
PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2024/369

Dated: 18 June 2024

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

Council endorses Infrastructure - (Water)



BEFORE YOU DIG www.byda.com.au
Zero Damage - Zero Harm

Issue	Description	Date	Design	Checked
B	ISSUE FOR OPERATIONAL WORKS	28/05/2024	J.E.H.	J.A.B.
A	ISSUE FOR OPERATIONAL WORKS	02/04/2024	J.E.H.	J.A.B.

1cm at full size 10cm 20cm

Certification By Dr. Michel Chaaya
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RPEQ: 27152

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Scale
0 1 2 3 m
SCALE 1:50 @ A1
0 4 8 12 m
SCALE 1:200 @ A1

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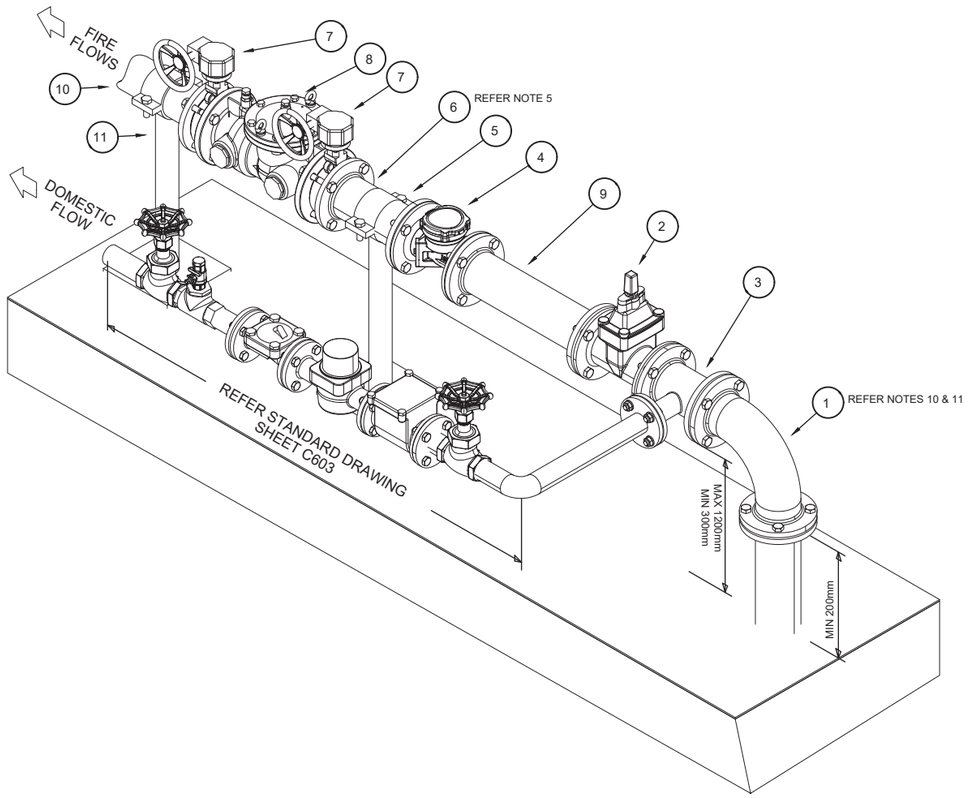
Project
14 EASTRIDGE STREET, STAPYLTON QLD
PROPOSED WAREHOUSE
CIVIL ENGINEERING PLANS
FOR CONSTRUCTION

Drawing Title
WATER CONNECTION LAYOUT PLAN

Scale A1	Project No.	Dwg. No.	Issue
AS SHOWN	23337	C601	B



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2024/369

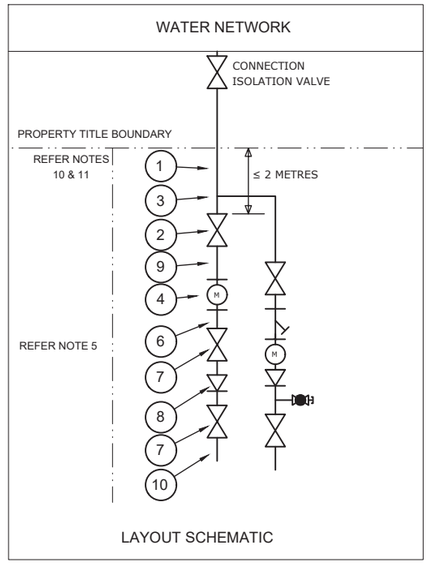
Dated: 18 June 2024

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

NOTES:

1. THIS METER ASSEMBLY ARRANGEMENT IS FOR A DOMESTIC (DN32 AND LARGER) SERVICE COMBINED WITH A FIRE SERVICE (DN100 AND LARGER), WHICH ARE METERED SEPARATELY AND NOT INSTALLED TO SERVICE A TOWNHOUSE STYLE COMMUNITY TITLE SCHEME DEVELOPMENT.
2. THE METER ASSEMBLY ARRANGEMENT SHALL BE LOCATED WITHIN TWO (2) METRES OF THE FRONT PROPERTY BOUNDARY (REFER LAYOUT SCHEMATIC), UPSTREAM OF ALL INTERNAL OFFTAKES AND SHALL BE ACCESSIBLE FOR READING, MAINTENANCE AND REPLACEMENT AT ALL TIMES.
3. THE PROPERTY SERVICE AND METER ASSEMBLY SHALL BE LOCATED AT LEAST ONE (1) METRE FROM ALL ELECTRICAL SOURCES AND AT LEAST 600mm HORIZONTALLY CLEAR OF EXISTING / FUTURE DRIVEWAYS, FENCES AND STRUCTURES. ANY OTHER ARRANGEMENT IS SUBJECT TO PRIOR APPROVAL BY SEQ-SP.
4. THE START OF THE METER ASSEMBLY SHALL HAVE MIN 300mm VERTICAL CLEARANCE BETWEEN FINISHED SURFACE LEVEL AND UNDERSIDE OF FLANGE (AS SHOWN). THE HORIZONTAL CLEARANCE BETWEEN THE FIRE SERVICE METER ARRANGEMENT AND THE DOMESTIC SERVICE SHALL BE AT LEAST 300mm.
5. ASSEMBLY DETAIL DOWNSTREAM OF THE FIRE SERVICE PIPE (ITEM 6) IS SHOWN FOR REFERENCE ONLY AND IS CLASSIFIED AS PRIVATE PLUMBING. AS A MINIMUM, A CONTAINMENT BACKFLOW PREVENTION DEVICE MUST BE INSTALLED DOWNSTREAM OF THE PIPE (ITEM 6). THE BACKFLOW PREVENTION DEVICE MUST BE IN ACCORDANCE WITH AS 3500 AND BE AT LEAST A TESTABLE SINGLE CHECK VALVE.
6. WHERE THE FIRE SERVICE SUPPLIES BOTH HYDRANT AND SPRINKLER SERVICES, THE SPRINKLER SERVICE SHALL BRANCH OFF IMMEDIATELY DOWNSTREAM OF THE CONTAINMENT BACKFLOW PREVENTION DEVICE. HOSE REEL SERVICES MAY BE SUPPLIED FROM EITHER THE HYDRANT SERVICE LINE OR THE DOMESTIC SERVICE LINE.
7. THIS DRAWING ILLUSTRATES A DN150 FIRE SERVICE WITH A DN50 DOMESTIC SERVICE BRANCH. FITTINGS FOR OTHER SIZES SERVICES WILL BE SLIGHTLY DIFFERENT. THE TABLE BELOW DOES NOT PROVIDE DETAILS OF ALL THE FITTINGS REQUIRED, ONLY THE MAIN COMPONENTS.
8. REFER TO SEQ STANDARD DRAWING SEQ-WAT-1111-1 FOR FURTHER NOTES.
9. FOR CoGC, ALL ITEMS ARE TO BE SUPPLIED BY CUSTOMER.
10. FOR CoGC, IF ITEM 1 IS CONSTRUCTED THROUGH A BASEMENT TO AN ABOVE GROUND ASSEMBLY IT SHALL BE OWNED AND MAINTAINED BY THE CUSTOMER.
11. FOR UU, ITEM 1 IS SUPPLIED AND OWNED BY CUSTOMER.

ITEM	FITTING	SUPPLIED BY (REFER NOTE 9)	OWNERSHIP	DESCRIPTION		
				DN100 service Length approx 1.3m	DN150 service Length approx 1.8m	DN200 service Length approx 2.2m
1	Service Pipe and 90° Bend	SEQ-SP (Refer Note 11)	SEQ-SP (Refer Note 11)	DN100 FI-FI DI, thermal bonded epoxy coated	DN150 FI-FI DI, thermal bonded epoxy coated	DN200 FI-FI DI, thermal bonded epoxy coated
2	Isolation Valve	SEQ-SP	SEQ-SP	DN100 FI-FI Gate Valve, thermal bonded epoxy coated.	DN150 FI-FI Gate Valve, thermal bonded epoxy coated.	DN200 FI-FI Gate Valve, thermal bonded epoxy coated.
3	Branch offtake Tee for domestic service	SEQ-SP	SEQ-SP	DN100/DNXX flanged reducing Tee 316SS	DN150/DNXX flanged reducing Tee 316SS	DN200/DNXX flanged reducing Tee 316SS
4	Fire Service Water Meter	SEQ-SP	SEQ-SP	100mm ultrasonic / electromagnetic meter	150mm ultrasonic / electromagnetic meter	200mm ultrasonic / electromagnetic meter
5	Pipe Support	SEQ-SP	SEQ-SP	Galvanized mild steel with rubber insert	Galvanized mild steel with rubber insert	Galvanized mild steel with rubber insert
6	Pipe (3D)	SEQ-SP	SEQ-SP	DN100 FI-FI 316SS, 300mm long	DN150 FI-FI 316SS, 450mm long	DN200 FI-FI 316SS, 600mm long
7	Isolation Valve	Customer	Customer	DN100 FI-FI Gate Valve	DN150 FI-FI Gate Valve	DN200 FI-FI Gate Valve
8	Backflow Prevention Device (Refer Note 5&6 and AS 3500 Section 4)	Customer	Customer	AS/NZS 2845.1 Compliant	AS/NZS 2845.1 Compliant	AS/NZS 2845.1 Compliant
9	Pipe (5D)	SEQ-SP	SEQ-SP	DN100 FI-FI 316SS, 500mm long	DN150 FI-FI 316SS, 750mm long	DN200 FI-FI 316SS, 1000mm long
10	Service Pipe	Customer	Customer	DN100 FI-FI DI, thermal bonded epoxy coated	DN150 FI-FI DI, thermal bonded epoxy coated	DN200 FI-FI DI, thermal bonded epoxy coated
11	Pipe Support	Customer	Customer	Galvanized mild steel with rubber insert	Galvanized mild steel with rubber insert	Galvanized mild steel with rubber insert



LAYOUT SCHEMATIC

LARGE METER ARRANGEMENT DN32 AND LARGER DOMESTIC SERVICE WITH DN100 AND LARGER FIRE SERVICE

SCALE N.T.S.

Issue	Description	Date	Design	Checked
A	ISSUE FOR OPERATIONAL WORKS	28/05/2024	J.E.H.	J.A.B.

Certification By Dr. Michel Chaaya
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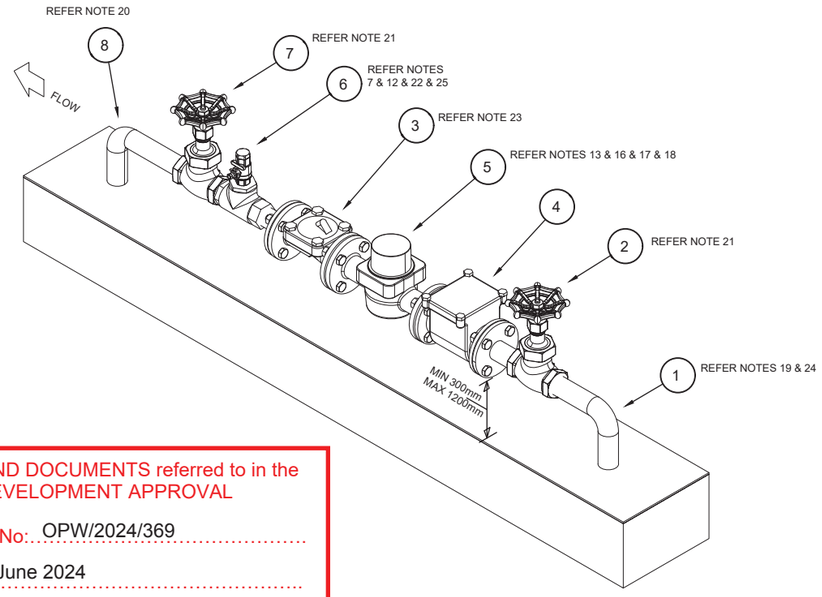
Company : Telford Consulting Pty Ltd

Project
14 EASTRIDGE STREET, STAPYLTON QLD
PROPOSED WAREHOUSE
CIVIL ENGINEERING PLANS
FOR CONSTRUCTION

Drawing Title
TYPICAL METER ASSEMBLIES SHEET 01

Scale	Project No.	Dwg. No.	Issue
N.T.S. A1	23337	C602	A



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2024/369

Dated: 18 June 2024

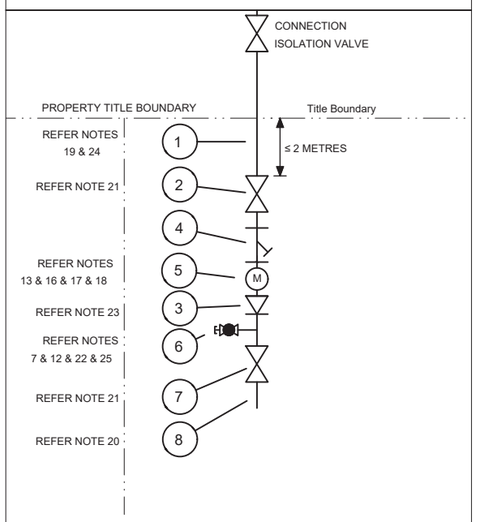
Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

NOTES:

1. THIS METER ASSEMBLY ARRANGEMENT IS ONLY APPLICABLE FOR DN32 AND LARGER DOMESTIC WATER SERVICE CONNECTIONS.
2. THE METER SIZING GUIDE PROVIDED IN THIS DRAWING IS FOR REFERENCE ONLY. CORRECT METER SIZING IS THE RESPONSIBILITY OF THE HYDRAULIC ENGINEER.
3. THIS METER ASSEMBLY ARRANGEMENT IS ONLY TO BE LOCATED WITHIN PRIVATE PROPERTY. THE 32mm (40mm FOR CoGC) METER ASSEMBLY ARRANGEMENT MAY ALSO BE LOCATED OUTSIDE OF PRIVATE PROPERTY AND UNDERGROUND, SUBJECT TO PRIOR APPROVAL BY SEQ-SP.
4. THE START OF THE METER ASSEMBLY MUST BE LOCATED WITHIN TWO METRES OF THE FRONT PROPERTY TITLE BOUNDARY (SEE LAYOUT SCHEMATIC), UPSTREAM OF ALL INTERNAL OFFTAKES, AND SHALL BE ACCESSIBLE FOR READING, MAINTENANCE AND REPLACEMENT AT ALL TIMES.
5. THE PROPERTY SERVICE AND METER ASSEMBLY SHALL BE LOCATED AT LEAST 1.0m FROM ALL ELECTRICAL SOURCES AND AT LEAST 600mm HORIZONTALLY CLEAR OF EXISTING OR FUTURE DRIVEWAYS, FENCES AND STRUCTURES. ANY OTHER ARRANGEMENT IS SUBJECT TO PRIOR APPROVAL BY SEQ-SP.
6. WATER METER ASSEMBLY SHALL HAVE A MINIMUM 300mm VERTICAL CLEARANCE FROM FINISHED SURFACE LEVEL TO UNDERSIDE OF FLANGE (AS SHOWN).
7. ASSEMBLY DETAIL DOWNSTREAM OF TEE & TESTING PORT (ITEM 6) IS SHOWN FOR REFERENCE ONLY AND IS CLASSIFIED AS PRIVATE PLUMBING. FOR UU ACCEPTANCE OF METER ASSEMBLY REQUIRES BACKFLOW PREVENTION DEVICE AND ISOLATION VALVE BE INSTALLED WITHIN 5M OF PIPE LENGTH DOWNSTREAM OF THE WATER METER, AND THE BACKFLOW PREVENTION DEVICE MUST BE IN ACCORDANCE WITH AS 3500 AND BE AT LEAST A TESTABLE SINGLE CHECK VALVE.
8. SERVICE PIPE SMALLER THAN DN100 SHALL BE CONTINUOUS COPPER TO AS 1432.
9. PE PIPE SHALL NOT BE INSTALLED ABOVE GROUND.
10. THE ARRANGEMENT SHOWN ON THIS DRAWING ILLUSTRATES A DN50 SERVICE ARRANGEMENT. FITTINGS FOR OTHER SIZE SERVICES WILL BE SLIGHTLY DIFFERENT. THE TABLE BELOW DOES NOT PROVIDE DETAILS FOR ALL FITTINGS REQUIRED, ONLY THE MAIN COMPONENTS.
11. REFER TO SEQ STANDARD DRAWING SEQ-WAT-1111-1 FOR FURTHER NOTES.
12. ITEM 6 IS NOT REQUIRED FOR LCC.
13. CoGC REQUIRES 5U/3D STRAIGHT PIPES FOR MECHANICAL METERS AS PER METER MANUFACTURER'S REQUIREMENTS. REFER SEQ-WAT-1111-4 OR SEQ-WAT-1111-8 FOR STRAIGHT PIPE DETAILS.
14. FOR CoGC, ALL ITEMS ARE TO BE SUPPLIED BY CUSTOMER.
15. THE ITEMS OWNED BY RCC ARE SUPPLIED THROUGH RCC.
16. CoGC DOES NOT USE 32mm OR 80mm METERS.
17. RCC DOES NOT ACCEPT DN100 SERVICE WITH 80mm METER.
18. UU DOES NOT ACCEPT 40mm METER.
19. FOR CoGC, IF ITEM 1 IS CONSTRUCTED THROUGH A BASEMENT TO AN ABOVE GROUND ASSEMBLY ITEM 1 SHALL BE OWNED AND MAINTAINED BY THE CUSTOMER.
20. ITEM 8 IS SUPPLIED AND OWNED BY LCC.
21. FOR LCC, VALVE ARRANGEMENT AS PER DRAWING SEQ-WAT-1111-10.
22. FOR UW, ITEM 6 IS SUPPLIED BY CUSTOMER.
23. FOR UU, ITEM 3 TO BE FITTED UPSTREAM STRAINER ITEM 4.
24. FOR UU, ITEM 1 IS SUPPLIED AND OWNED BY CUSTOMER.
25. FOR UU, ITEM 6 IS OWNED BY UU.

ITEM	FITTING	SUPPLIED BY (REFER NOTES 14 & 15)	OWNERSHIP	DESCRIPTION						
				DN32 service * Length approx 0.5m	DN40 service * Length approx 0.5m	DN50 service Length approx 1m	DN100 service (with 80mm meter) Length approx 1.1m	DN100 service (with 100mm meter) Length approx 1.3m	DN150 service Length approx 1.5m	DN200 service Length approx 1.7m
1	Service Pipe and 90° Bend	SEQ-SP (Refer Note 24)	SEQ-SP (Refer Note 24)	DN32 Copper Class A, silver soldered with brass union, capillary - BSP M	DN40 Copper Class A, silver soldered with brass union, capillary - BSP M	DN50 Copper Class A, silver soldered with brass union, capillary - BSP M	DN100 FI-FI DI, thermal bonded epoxy coated	DN100 FI-FI DI, thermal bonded epoxy coated	DN150 FI-FI DI, thermal bonded epoxy coated	DN200 FI-FI DI, thermal bonded epoxy coated
2	Isolation Valve	SEQ-SP	SEQ-SP	DN32 BSP Brass Ball / Globe Valve	DN40 BSP Brass Ball / Globe Valve	DN50 BSP Brass Ball / Globe Valve	DN100 FI-FI Gate Valve, thermal bonded epoxy coated ##	DN100 FI-FI Gate Valve, thermal bonded epoxy coated	DN150 FI-FI Gate Valve, thermal bonded epoxy coated	DN200 FI-FI Gate Valve, thermal bonded epoxy coated
3	Non Return Valve	SEQ-SP	SEQ-SP	**	**	DN50 FI-FI Swing check valve	DN80 FI-FI Swing check valve	DN100 FI-FI Swing check valve	DN150 FI-FI Swing check valve	DN200 FI-FI Swing check valve
4	Strainer	SEQ-SP	SEQ-SP	**	**	DN50 FI-FI in-line basket strainer, thermal bonded epoxy coated	DN80 FI-FI in-line basket strainer, thermal bonded epoxy coated	DN100 FI-FI in-line basket strainer, thermal bonded epoxy coated	DN150 FI-FI in-line basket strainer, thermal bonded epoxy coated	DN200 FI-FI in-line basket strainer, thermal bonded epoxy coated
5	Water Meter	SEQ-SP	SEQ-SP	32mm mechanical meter (refer Note 2)	40mm mechanical meter (refer Note 2)	50mm mechanical meter (refer Note 2)	80mm mechanical meter (refer Note 2)	100mm mechanical meter (refer Note 2)	150mm mechanical meter (refer Note 2)	200mm mechanical meter (refer Note 2)
6	Tee & Testing Port	SEQ-SP (Refer Notes 12 & 22)	Customer (Refer Notes 12 & 25)	DN32 x DN25 Brass Tee with DN25 BSP Brass Ball Valve	DN40 x DN25 Brass Tee with DN25 BSP Brass Ball Valve	DN50 x DN25 Brass Tee with DN25 BSP Brass Ball Valve	DN80 FI-FI 316SS with DN25 tapping and DN25 BSP Brass Ball Valve	DN100 FI-FI 316SS with DN25 tapping and DN25 BSP Brass Ball Valve	DN150 FI-FI 316SS with DN25 tapping and DN25 BSP brass ball valve	DN200 FI-FI 316SS with DN25 tapping and DN25 BSP brass ball valve
7	Customer Isolation Valve	Customer (Refer Note 21)	Customer (Refer Note 21)	BSP Brass Ball/Globe Valve	BSP Brass Ball/Globe Valve	Brass Ball/Globe Valve	Brass Ball/Globe Valve	Gate Valve, thermal bonded epoxy coated	Gate Valve, thermal bonded epoxy coated	Gate Valve, thermal bonded epoxy coated
8	Service Pipe and 90° Bend	Customer (Refer Note 20)	Customer (Refer Note 20)	DN32 Copper Class A, silver soldered with brass union, capillary - BSP M	DN40 Copper Class A, silver soldered with brass union, capillary - BSP M	DN50 Copper Class A, silver soldered with brass union, capillary - BSP M	DN100 FI-FI DI, thermal bonded epoxy coated	DN100 FI-FI DI, thermal bonded epoxy coated	DN150 FI-FI DI, thermal bonded epoxy coated	DN200 FI-FI DI, thermal bonded epoxy coated
NA	Meter sizing guide - Number of dwellings serviced	NA	NA	7 - 21		22 -89	90 - 300	301 - 500	501 - 800	> 800

WATER NETWORK



LAYOUT SCHEMATIC

DN100/80 FL-FL REDUCER (THERMAL BONDED EPOXY) TO BE INSTALLED ON DOWNSTREAM SIDE OF ISOLATION VALVE (ITEM 2).
* CUSTOMER TO SUPPLY DN32 AND DN40 WATER METER ASSEMBLY WHEN USED AS A DOMESTIC SERVICE ONLY.
** WHERE DN32 AND DN40 WATER METERS DO NOT INCORPORATE INTEGRAL FLOW RESTRICTER VALVES AND/OR STRAINER, EXTERNAL NON RETURN VALVE AND/OR STRAINER TO BE INSTALLED.

LARGE METER ARRANGEMENT
DN32 AND LARGER DOMESTIC SERVICE WITH MECHANICAL METER

SCALE N.T.S.

Issue	Description	Date	Design	Checked
A	ISSUE FOR OPERATIONAL WORKS	28/05/2024	J.E.H.	J.A.B.

1cm at full size 10cm 20cm

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Project
14 EASTRIDGE STREET, STAPYLTON QLD
PROPOSED WAREHOUSE
CIVIL ENGINEERING PLANS
FOR CONSTRUCTION

Drawing Title
TYPICAL METER ASSEMBLIES
SHEET 02

Scale	Project No.	Dwg. No.	Issue
A1 N.T.S.	23337	C603	A