



NETWORK INFRASTRUCTURE STANDARDS

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LIMIT OF CONTRACT NOTES for WATER SUPPLY CONSTRUCTION

To be read in conjunction with the SA Water Water Supply Construction Manual (WSCM) latest version.

References to C7, E2, etc are quick references to the drawings in the various sections of the WSCM.

TABLE OF CONTENTS

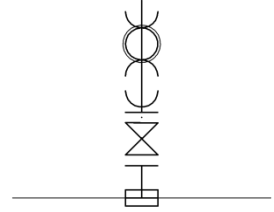
WORK BY CONSTRUCTOR	1
1. Construct the reticulation water mains as shown.	1
2. Provide the linkup at 'A' (Branch off existing main – Stainless steel flanged offtake clamp) (refer WSCM C7).	1
3. Provide the linkup at 'A' (Branch off existing main – Tapping saddle and DN63 main) (refer WSCM C16).	1
4. Provide the link-up at 'A' (Welded on MSCL flanged off-take) (refer WSCM C8)	1
5. Provide the link-up at 'A' (Cut-out of existing restrained DICL main – flanged tee) (refer WSCM C9)	1
6. Provide the link-up at 'A' (Cut-out of the existing main – spigoted flanged tee with gibaults) (refer WSCM C7).	2
7. Provide the link-up at 'A' (Cut-out of the existing main – spigoted flanged tee with stepped gibaults).	2
8. Provide the link-up at 'A' (Cut-out of the existing main – socketed tee with gibaults)	2
9. Provide the link-up at 'A' (Cutout of the existing main – flanged tee with gibaults)	3
10. Provide the link-up at 'A' (Extension of main off a capped end)	3
11. Provide the link-up at 'A' (Extension of main off a temporary fireplug end)	3
12. Provide the link-up at 'A' (Extension of main off a fireplug end)	3
13. Abandon existing water main 'A'-'B'	4
14. Construct new services at 'A'	4
WORK BY SA WATER (at Developer's Expense).....	4
CONNECTIONS	5
NOTES	5
EXISTING SERVICES	6

WORK BY CONSTRUCTOR

1. Construct the reticulation water mains as shown.

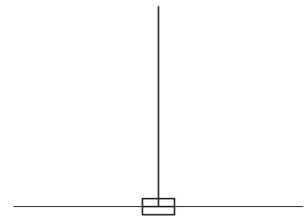
2. Provide the linkup at 'A' (Branch off existing main – Stainless steel flanged offtake clamp) (refer WSCM C7).

- Expose the live main;
- Engage an authorized contractor to perform the under pressure tapping and stop valve installation;
- Place an appropriate thrust block behind the stainless steel offtake clamp;
- Lay away from the stop valve in the approved method.



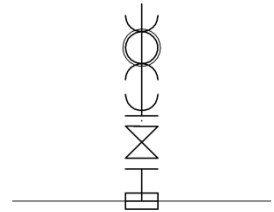
3. Provide the linkup at 'A' (Branch off existing main – Tapping saddle and DN63 main) (refer WSCM C16).

- Expose the live main;
- Engage an authorized contractor to perform the under pressure tapping and maincock installation;
- Lay away from the maincock in the approved method.



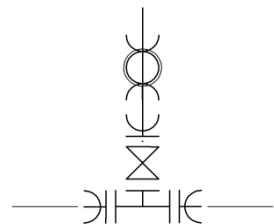
4. Provide the link-up at 'A' (Welded on MSCL flanged off-take) (refer WSCM C8)

- Excavate to the top of the existing main to check depth;
- Complete excavation of the existing main;
- Engage an authorized welding contractor to prepare host pipe for welding and weld on steel flanged off-take fitting;
- Engage an authorized contractor to perform the under pressure tapping and stop valve installation;
- Wrap off-take with bitumen mastic tape;
- Lay away from the stop valve in the approved method.



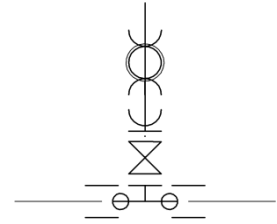
5. Provide the link-up at 'A' (Cut-out of existing restrained DI/CL main – flanged tee) (refer WSCM C9)

- Excavate to the top of the existing main to check depth;
- When ready to proceed with the link-up advise the Superintendent's Representative who will arrange for the shut-off of the main;
- Complete excavation of the existing main;
- Cut out section, install a flanged tee and flange-socket extensions;
- Install a closed flanged stop valve and lay away in the approved method;
- Advise the Superintendent's Representative that the main is ready to be charged up.



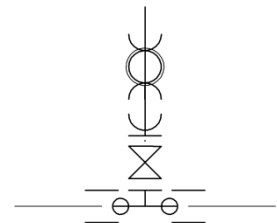
6. Provide the link-up at 'A' (Cut-out of the existing main – spigoted flanged tee with gibaults) (refer WSCM C7).

- Excavate to the top of the existing main to check depth;
- When ready to proceed with the link-up advise the Superintendent's Representative who will arrange for the shut-off of the main;
- Complete excavation of the existing main;
- Cut out section, install a spigoted flanged tee and gibaults;
- Place an appropriate thrust block behind the tee;
- Install a closed flanged stop valve and fully support with hardwood wedges, then lay away in the approved method;
- Advise the Superintendent's Representative that the main is ready to be charged up.



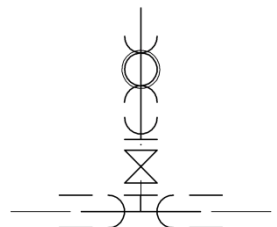
7. Provide the link-up at 'A' (Cut-out of the existing main – spigoted flanged tee with stepped gibaults).

- Excavate to the top of the existing main to check depth;
- When ready to proceed with the link-up advise the Superintendent's Representative who will arrange for the shut-off of the main;
- Complete excavation of the existing main;
- Cut out section, install a spigoted flanged tee and 80/100 stepped gibaults;
- Place an appropriate thrust block behind the tee;
- Install a closed flanged stop valve and fully support with hardwood wedges, then lay away in the approved method;
- Advise the Superintendent's Representative that the main is ready to be charged up.



8. Provide the link-up at 'A' (Cut-out of the existing main – socketed tee with gibaults)

- Excavate to the top of the existing main to check depth;
- When ready to proceed with the link-up advise the Superintendent's Representative who will arrange for the shut-off of the main;
- Complete excavation of the existing main;
- Cut out section, install a socketed flanged tee, extension pipes and gibaults;
- Place an appropriate thrust block behind the tee;
- Install a closed flanged stop valve and fully support with hardwood wedges, then lay away in the approved method;
- Advise the Superintendent's Representative that the main is ready to be charged up.



9. Provide the link-up at 'A' (Cutout of the existing main – flanged tee with gibaults)

- Excavate to the top of the existing main to check depth;
- When ready to proceed with the link-up advise the Superintendent's Representative who will arrange for the shut-off of the main;
- Complete excavation of the existing main;
- Cut out section, install a flanged tee, flange-socket extensions and gibaults;
- Place an appropriate thrust block behind the tee;
- Install a closed flanged stop valve and fully support with hardwood wedges, then lay away in the approved method;
- Advise the Superintendent's Representative that the main is ready to be charged up.



10. Provide the link-up at 'A' (Extension of main off a capped end)

- Excavate to the top of the existing main to check alignment and depth leaving the existing thrust block intact;
- Lay back to the existing main from the new end;
- When ready to proceed with the link-up advise the Superintendent's Representative who will arrange for the shut-off of the main;
- Complete excavation of the existing main;
- Remove thrust block and end cap;
- Install a gibault and lay away in the approved method;
- Advise the Superintendent's Representative that the main is ready to be charged up.

BEFORE



AFTER



11. Provide the link-up at 'A' (Extension of main off a temporary fireplug end)

- Excavate and expose the end of the existing main;
- Lay away from the existing socket end in the approved method;
- When the hydraulic testing is complete advise the Superintendent's Representative who will arrange for the shut-off of the main;
- Remove fireplug (if required);
- Remove the bat from the fireplug fitting and tighten the flanged joint;
- Advise the Superintendent's Representative that the main is ready to be charged up.

BEFORE



AFTER



12. Provide the link-up at 'A' (Extension of main off a fireplug end)

- Excavate to the top of the existing main to check alignment and depth leaving the existing thrust block intact;
- Lay back to the existing main from the new end;
- When ready to proceed with the link-up advise the Superintendent's Representative who will arrange for the shut-off of the main;
- Complete excavation of the existing main;
- Remove the anchor block and whole fireplug installation;
- Replace the old fireplug with a new fireplug if specified;
- Link the new main to the existing main in the approved method;
- Advise the Superintendent's Representative that the main is ready to be charged up.

BEFORE



AFTER



13. Abandon existing water main 'A'-'B'

Minimum SA Water requirements

- The Contractor shall place an order with SA Water to arrange for the main to be cut and capped, or flanged;
- Excavate and remove entire water main from 'A'-'B';
- Remove any SVs and FPs including the castings and lids;
- Existing services to be shifted to new main, if required;
- Fill to existing surface level with clean sand, compacted in accordance with WSCM Section B;
OR
- Reinstate the roadway to the requirements of Local Council or relevant Road Authority;
- SA Water requires five working days notice in advance prior to this work being undertaken.

Note: - SA WATER accepts no responsibility for the abandoned water main or the trench compaction.

14. Construct new services at 'A'

- Contractor to provide new services off the new water main to service the existing dwellings on lots ????

WORK BY SA WATER (at Developer's Expense)

Examples:

- Arrange for the services to Lots ???, ???, and ??? off the existing live water main;
- Existing ??mm meter No. ???????? on Lot ??? to be disconnected and removed;
- Existing services to Lots ???, ???, and ??? to be cutoff;
- Abandon the existing water service no longer required at 'A'

CONNECTIONS

- All connections shall be laid similar to WSCM Section E unless noted otherwise.
- Connections to lots to be 25mm PE with 20mm boundary cock similar to WSCM E2 unless noted otherwise.
- Connections to lots to be 25mm PE similar to WSCM E5.
- Connections to lots to be 40mm PE similar to WSCM E6.
- Connections to lots to be 50mm PE similar to WSCM E7.

Unless approved otherwise by the Superintendent's Representative, water connections shall be laid at right angles to the main.

The position of the water connection shall be as per the WSCM unless otherwise directed by the consultant.

The Contractor shall construct the water connections from the water main up to and including the riser and boundary cock as shown on Standard Drawings (see Section E and Section H Drawings).

Examples:

- Existing 20mm meter No. 123456789 on Lot ??? to remain
- Existing 20mm meter No. 123456789 to be shifted to Lot ???
- Lot ??? has an existing 25mm pre-laid
- Existing house on Lot ??? supplied by 25mm meter (indirect) No. 123456789 to be shifted to new pre-laid
- Existing services to Lots ???, ???, and ??? to remain
- Existing services to Lots ???, ???, and ??? to be shifted
- Existing services to Lots ???, ???, and ??? to be cutoff (see WORK BY SA WATER (at Developer's Expense))
- Water meters for Lots ??? to be located below ground in CI boxes
- Services to Reserves to be approved prior to construction commencing.

NOTES

The Constructor shall give the Superintendent's Representative a minimum of 5 working days 'notice of intent' to carry out any link-up.

The Superintendent's Representative will arrange for the shutting down and charging up of mains as necessary for the link-up process.

The Constructor shall not open or close any valves on existing mains unless otherwise directed by the Superintendent's Representative.

The preferred minimum spacing between tapping saddles on PVC pipes shall be 1200mm. Ready tap fittings may be piggy backed.

Any fittings removed from the system shall remain the property of SA Water and shall be returned to the nearest South Australian Water Corporation depot.

Once the main has been tested to the satisfaction of the Superintendent's Representative (see Clause 4.12) and the link-up completed, the contractor shall reinstate the excavation in accordance with WSCM Section B.

When advised by the Contractor that the link-up is complete including the anchor/thrust blocks (refer WSCM Section B), the Superintendent's Representative will arrange to charge up and disinfect the new main.

EXISTING SERVICES

- Constructor shall verify location and depth of the link-up point to the existing water main at 'A' prior to commencing construction works and notify Engineer of any discrepancies.
- Prior to commencing ANY construction works, the Constructor shall locate and depth all other existing underground services in the vicinity of works. Any discrepancies of depth or location from that indicated on these drawings shall be reported to the Consulting Engineer.
- It shall be noted that there may be other existing underground services in the vicinity of works other than those shown on these drawings.
- It shall be the Constructor's responsibility to determine if other underground services are present and have all services located and depthed prior to commencing works