NON-DRINKING WATER DRAWINGS
DRAWING INDEX - SHEET 1 OF 1

DRAWING No.	DRAWING TITLE			REV No.
SEQ-NDW-INDEX	NON-DRINKING WATER	DRAWING INDEX	SHEET 1 OF 1	C
SEQ-NDW-2100-1	TYPICAL MAINS CONSTRUCTION	MAIN ARRANGEMENT FOR	DUAL WATER SYSTEMS	C
SEQ-NDW-2101-1	TYPICAL MAINS CONSTRUCTION	MAIN ARRANGEMENT FOR CUL-DE-SACS	DUAL WATER SYSTEMS	B
SEQ-NDW-2102-1	TYPICAL MAINS CONSTRUCTION	OFFTAKE MAIN DETAILS	DUAL WATER SYSTEMS	B
SEQ-NDW-2103-1	PROPERTY SERVICES	MAINS IN SAME FOOTPATH	DUAL WATER SYSTEM	B
SEQ-NDW-2104-1	PROPERTY SERVICES	MAINS IN OPPOSITE FOOTPATH	DUAL WATER SYSTEM	B
SEQ-NDW-2106-1	METER INSTALLATION	NON DRINKING WATER	DUAL WATER SYSTEM	B
SEQ-NDW-2110-1	EMBEDMENT AND TRENCH FILL	MAIN ARRANGEMENT	DUAL WATER SYSTEM	B
SEQ-NDW-2111-1	CONCRETE THRUST BLOCKS FOR	ADJACENT DUAL WATER MAINS		B
SEQ-NDW-2122-1	TYPICAL HYDRANT AND VALVE	SURFACE FITTING DETAILS	DUAL WATER SYSTEM	B
SEQ-NDW-2125-1	TYPICAL SURFACE FITTINGS	NON DRINKING WATER	DUAL WATER SYSTEM	B
SEQ-NDW-2125-2	TYPICAL SURFACE FITTINGS	HYDRANT AND VALVE TRAFFICABLE AREAS	DUAL WATER SYSTEM	B
SEQ-NDW-2200-1	DUAL WATER SUPPLY SYSTEM	DESIGN LAYOUTS	TYPICAL SITE PLAN	B
SEQ-NDW-2201-1	DUAL WATER SUPPLY SYSTEM	TYPICAL MAINS CONSTRUCTION		B
SEQ-NDW-2202-1	DUAL WATER SUPPLY SYSTEM	TYPICAL MAINS CONSTRUCTION	CUL-DE-SAC ARRANGEMENT	B
SEQ-NDW-2203-1	DUAL WATER SUPPLY SYSTEM	TWIN PROPERTY SERVICES	MAIN TO METER	B
SEQ-NDW-2204-1	DUAL WATER SUPPLY SYSTEM	TWIN PROPERTY SERVICES	MAIN TO METER	C
SEQ-NDW-2205-1	DUAL WATER SUPPLY SYSTEM	TYPICAL MAINS CONSTRUCTION	FLUSHING POINT ARRANGEMENT	B
SEQ-NDW-2207-1	DUAL WATER SUPPLY SYSTEM	EMBEDMENT AND TRENCH FILL	MAIN ARRANGEMENT	B
SEQ-NDW-2208-1	DUAL WATER SUPPLY SYSTEM	THRUST RESTRAINT	TYPICAL COMMON TRENCH	B
SEQ-NDW-2209-1	DUAL WATER SUPPLY SYSTEM	VALVE & FLUSHING POINT IDENTIFICATION	MARKERS & MARKER POSTS	B
SEQ-NDW-2211-1	DUAL WATER SUPPLY SYSTEM	VALVE & HYDRANT SURFACE BOXES	SUPPORT & SURROUND DETAILS	B
SEQ-NDW-2300-1	DESIGN LAYOUTS	TYPICAL SITE PLAN	DUAL WATER SYSTEMS	B
SEQ-NDW-2301-1	TYPICAL MAINS CONSTRUCTION	DUAL WATER SYSTEMS		B
SEQ-NDW-2302-1	TYPICAL MAINS CONSTRUCTION	CUL-DE-SAC ARRANGEMENT	DUAL WATER SYSTEMS	B
SEQ-NDW-2303-1	TYPICAL PROPERTY SERVICES	DUAL WATER SYSTEMS	MAIN TO METER	B
SEQ-NDW-2304-1	TYPICAL PROPERTY SERVICES	DUAL WATER SYSTEMS	SERVICE CONNECTION MAIN TO METER	B
SEQ-NDW-2305-1	TYPICAL MAINS CONSTRUCTION	FLUSHING POINT DRINKING WATER	DUAL WATER SYSTEMS	B
SEQ-NDW-2306-1	TYPICAL MAINS CONSTRUCTION	DUAL WATER SYSTEM TEMPORARY	CROSS LINK & STANDARD ROAD CROSSINGS	B
SEQ-NDW-2307-1	TYPICAL WATER MAIN	TRENCH & BEDDING DETAILS	DUAL WATER SYSTEMS	B
SEQ-NDW-2308-1	DUAL WATER SYSYTEM	TYPICAL COMMON TRENCH	THRUST RESTRAINT	B
SEQ-NDW-2309-1	VALVE & HYDRANT IDENTIFICATION	MARKERS & MARKER POSTS	DUAL WATER SYSTEM	B
SEQ-NDW-2310-1	TYPICAL HYDRANT INSTALLATION	NON-DRINKING WATER HYDRANTS	DUAL WATER SYSTEMS	B
SEQ-NDW-2311-1	TYPICAL DUAL WATER SYSTEM	VALVE & HYDRANT SURFACE BOX	SUPPORT & SURROUND DETAILS	B
SEQ-NDW-2312-1	TYPICAL INSTALLATION FITTINGS	DN63 & DN110 PE ASSEMBLIES	DUAL WATER SYSTEMS	B

REV. No.	DATE	DESCRIPTION	AUTH.
C	01/02/24	UPDATE REVISION NUMBERS AND TITLE BLOCK	
B	15/07/15	UPDATED REVISION NUMBERS	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

SEQ-SPs ACCEPT NO LIABILITY FOR THE USE OF TYPICAL DRAWINGS, WHICH MUST BE ADAPTED TO THE REQUIREMENTS OF THE PARTICULAR SYSTEM OR NETWORK AND ACCOMPANIED BY DETAILED DESIGNS CERTIFIED BY AN RPEQ

WATER SUPPLY STANDARD DRAWING

NON-DRINKING WATER
DRAWING INDEX
SHEET 1 OF 1

CoGC	LCC	RCC	UU	UW

DRAWING No.

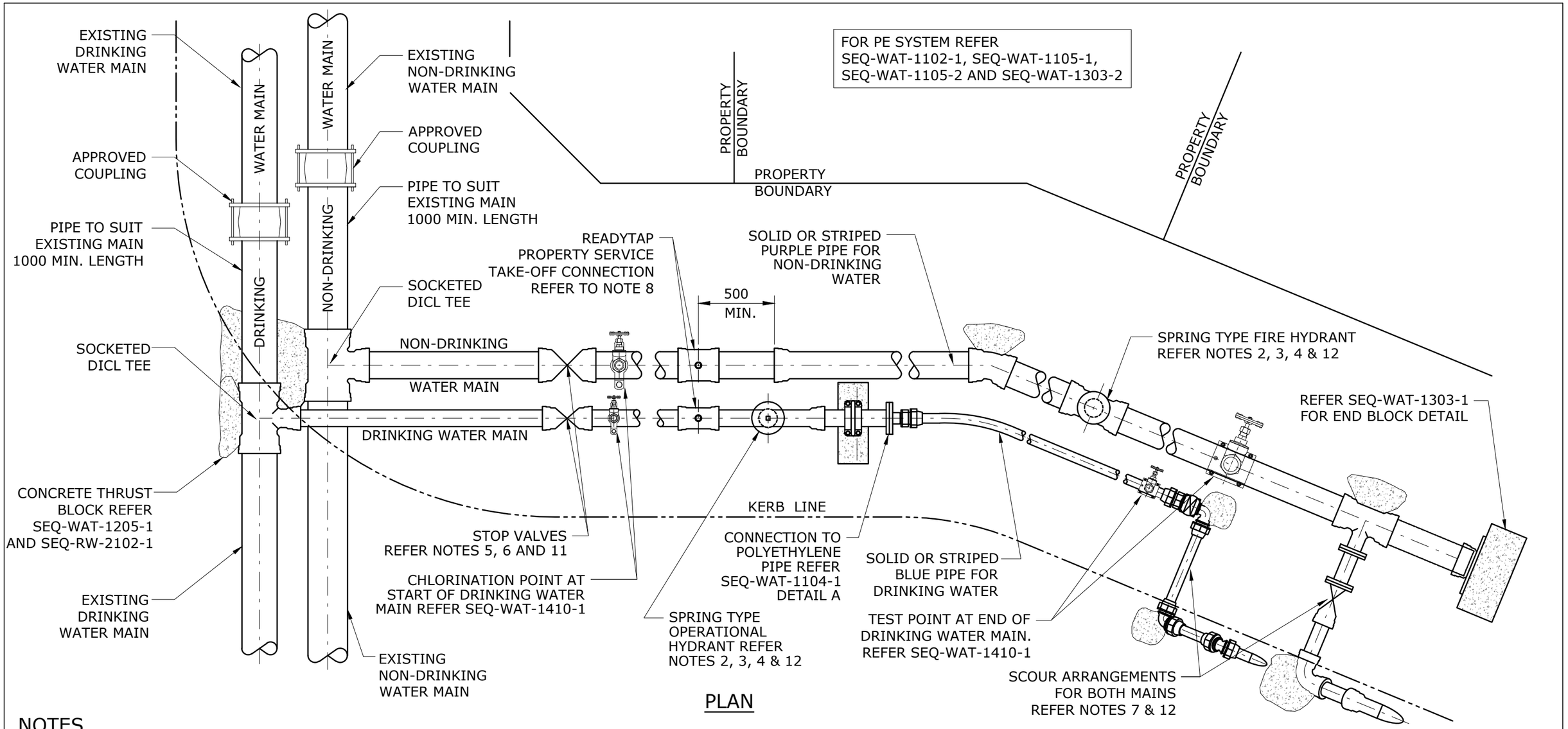
SEQ-NDW-INDEX

VERSION

C

NOT TO SCALE

ORG DATE: 1/1/2013



PLAN

NOTES

1. FOR TYPICAL ALIGNMENT OF PUBLIC UTILITIES REFER COUNCIL STANDARDS DRAWINGS.
2. FIRE HYDRANTS SHALL BE INSTALLED ON NON-DRINKING WATER MAINS AS PER CLAUSE 8.8.8 OF WATER CODE. HYDRANTS INSTALLED ON DRINKING WATER MAINS FOR STRATEGIC/OPTERATIONAL PURPOSES SHALL BE LOCATED: i) ADJACENT TO SCOURS, AND ii) AT THE CREST OF THE MAIN, AND iii) WHERE REQUIRED FOR OPERATIONAL PURPOSES.
3. HYDRANTS MAY BE PROVIDED 40 METRES FROM THE CUL-DE-SAC END, REFER SEQ-NDW-2101-1.
4. HYDRANTS ON NON-DRINKING WATER MAINS AND HYDRANTS ON DRINKING WATER MAINS ARE TO BE THE SAME AS FOR SINGLE DRINKING WATER SYSTEM, REFER SEQ-WAT-1302-1.
5. STOP VALVES TO BE SPACED AT A MAXIMUM OF 200 METRES FOR MAINS UP TO 150 mm DIAMETER, FOR MAINS GREATER THAN 150 mm DIAMETER, STOP VALVES ARE TO BE SPACED AT NO GREATER THAN 300 METRES.
6. STOP VALVES SHALL BE INSTALLED AT THE START OF EACH ROAD INTERSECTION AND BRANCH MAIN.
7. SCOURS TO BE PROVIDED AT ENDS AND LOW POINTS TO DRINKING AND NON-DRINKING WATER MAINS REFER SEQ-WAT-1307-1 & SEQ-WAT-1307-2.
8. FOR DRINKING AND NON-DRINKING WATER SERVICE DETAILS REFER SEQ-NDW-2103-1, SEQ-NDW-2104-1 & SEQ-NDW-2106-1.
9. FOR DRINKING AND NON-DRINKING WATER MAINS COMMON TRENCH DETAILS REFER SEQ-WAT-2110-1.
10. THE PURPLE COLOUR FOR NON-DRINKING WATER MAINS AND SERVICES SHALL COMPLY WITH THE SPECIFICATIONS GIVEN IN THE PIPA DOCUMENT POP203.
11. VALVES AND HYDRANTS INSTALLED ON DUAL WATER SYSTEMS ARE TO HAVE MODIFIED VALVE BOX COVERS AS SHOWN ON SEQ-NDW-2122-1 & SEQ-NDW-2125-2. VALVE AND HYDRANTS ARE TO BE INSTALLED AS SHOWN ON SEQ-WAT-1301-1 & SEQ-WAT-1302-1.
12. HYDRANTS ARE NOT REQUIRED ADJACENT TO SCOURS ON NON-DRINKING WATER LINES. HYDRANTS MAY BE REQUIRED ON DN90 PE DRINKING WATER LINES. HYDRANTS ARE NOT REQUIRED ON DN63 PE MAINS.

REV. No.	DATE	DESCRIPTION	AUTH.
C	01/02/24	NOT FOR CONSTRUCTION AND UU IN TITLE BLOCK.	
B	14/07/15	AMENDED NOTE 2	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

TYPICAL MAINS CONSTRUCTION MAIN ARRANGEMENT FOR DUAL WATER SYSTEMS

~~CoGC~~ ~~LGC~~ ~~RGC~~ UU ~~UW~~

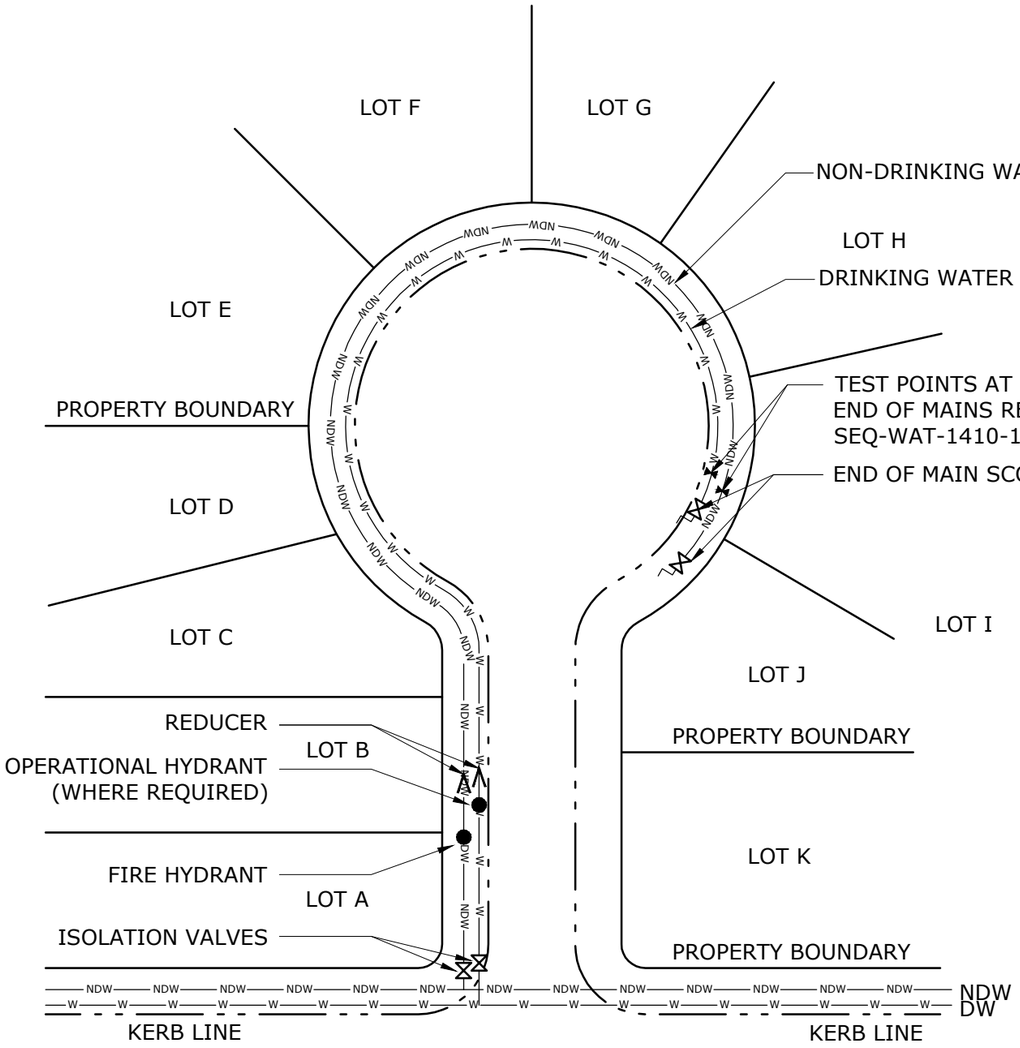
DRAWING No. SEQ-NDW-2100-1

VERSION C

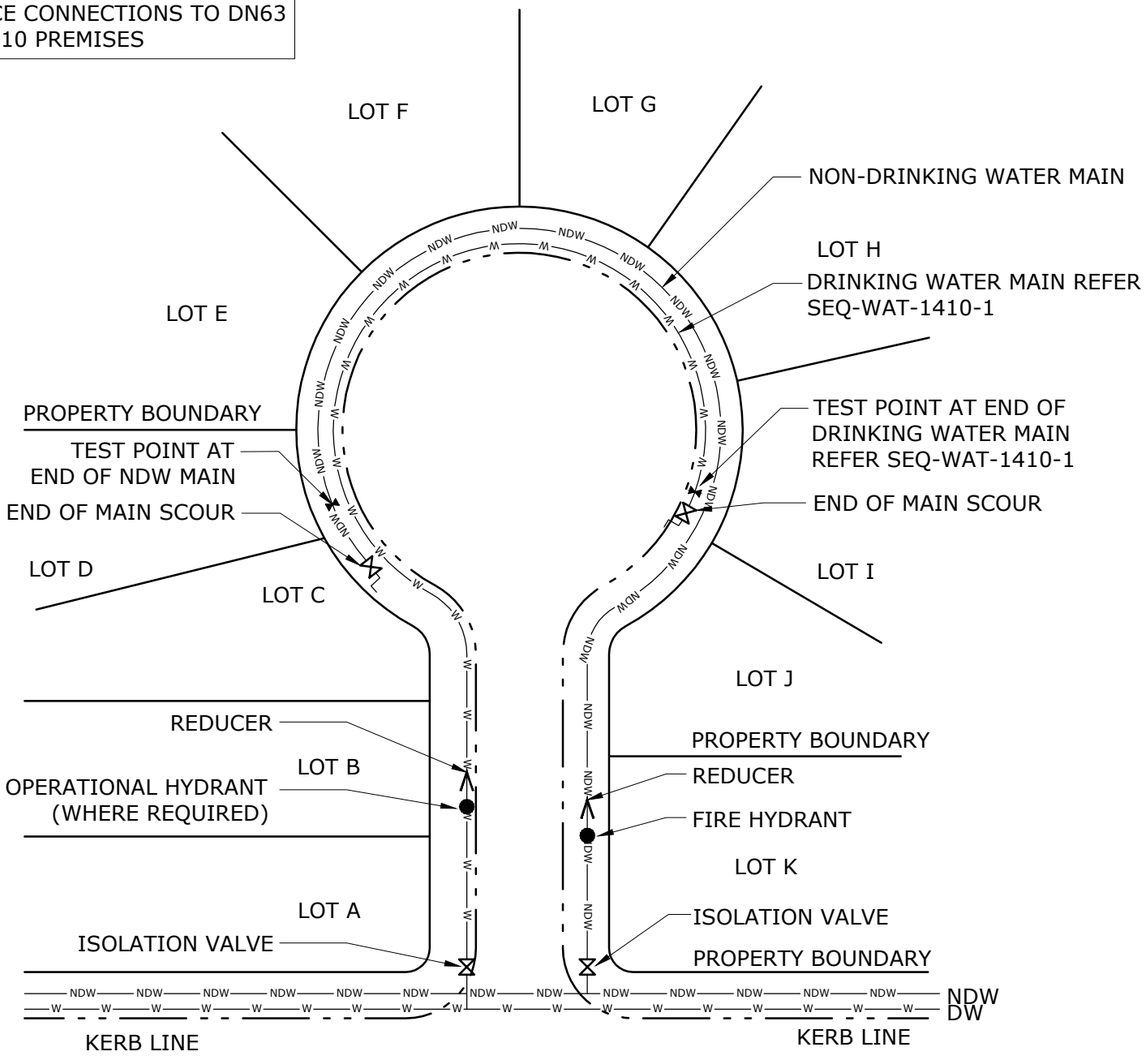
NOT TO SCALE

ORG DATE: 1/1/2013

MAXIMUM NUMBER OF PROPERTY SERVICE CONNECTIONS TO DN63 MAINS 10 PREMISES



MAINS ON SAME SIDE OF ROAD
END OF CUL-DE-SAC



MAINS ON OPPOSITE SIDE OF ROAD
(PREFERRED)END OF CUL-DE-SAC

NOTES

1. REFER SEQ-NDW-2100-1 FOR NOTES.
2. REFER SEQ-GEN-1100-1 FOR LEGEND.

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION AND UU IN TITLE BLOCK.	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

TYPICAL MAINS CONSTRUCTION
MAIN ARRANGEMENT FOR CUL-DE-SACS
DUAL WATER SYSTEMS

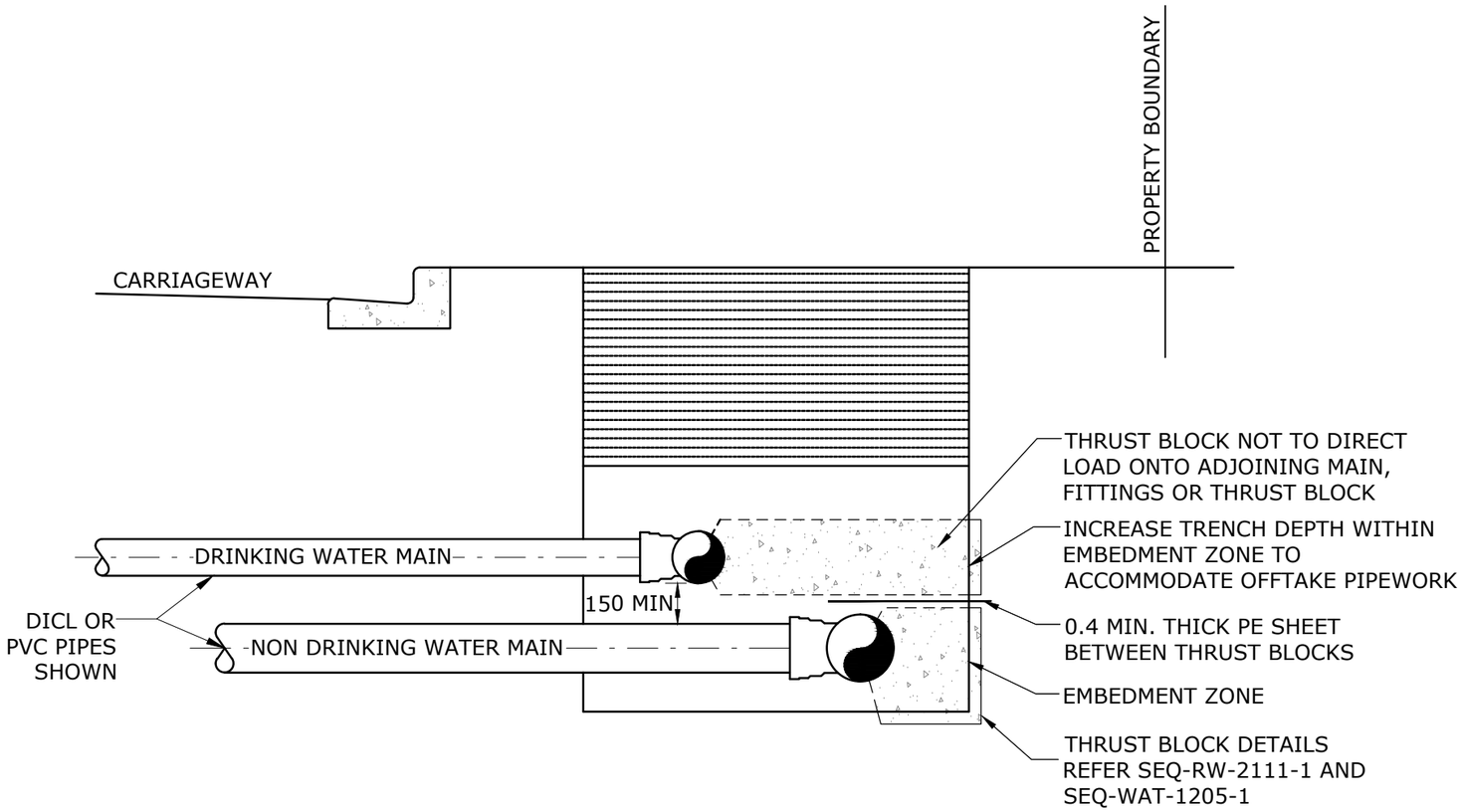
CoGC | LGC | RGC | UU | UW

DRAWING No. SEQ-NDW-2101-1

VERSION B

NOT TO SCALE

ORG DATE: 1/1/2013



OFFTAKE DETAIL

(REFER SEQ-NDW-2110-1 FOR EMBEDMENT ARRANGEMENT DETAILS)

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. STANDARD EMBEDMENT TYPE 'C' SUPPORT SHOWN. REFER SEQ-WAT-1201-1.
3. FOR EMBEDMENTS WITH INADEQUATE SIDE SUPPORT AND/OR FOUNDATION REFER SEQ-WAT-1202-1.
4. NON DRINKING MAINS SHALL BE PURPLE OR PURPLE STRIPED.

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION AND UU IN TITLE BLOCK.	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

TYPICAL MAINS CONSTRUCTION
OFFTAKE MAIN DETAILS
DUAL WATER SYSTEMS

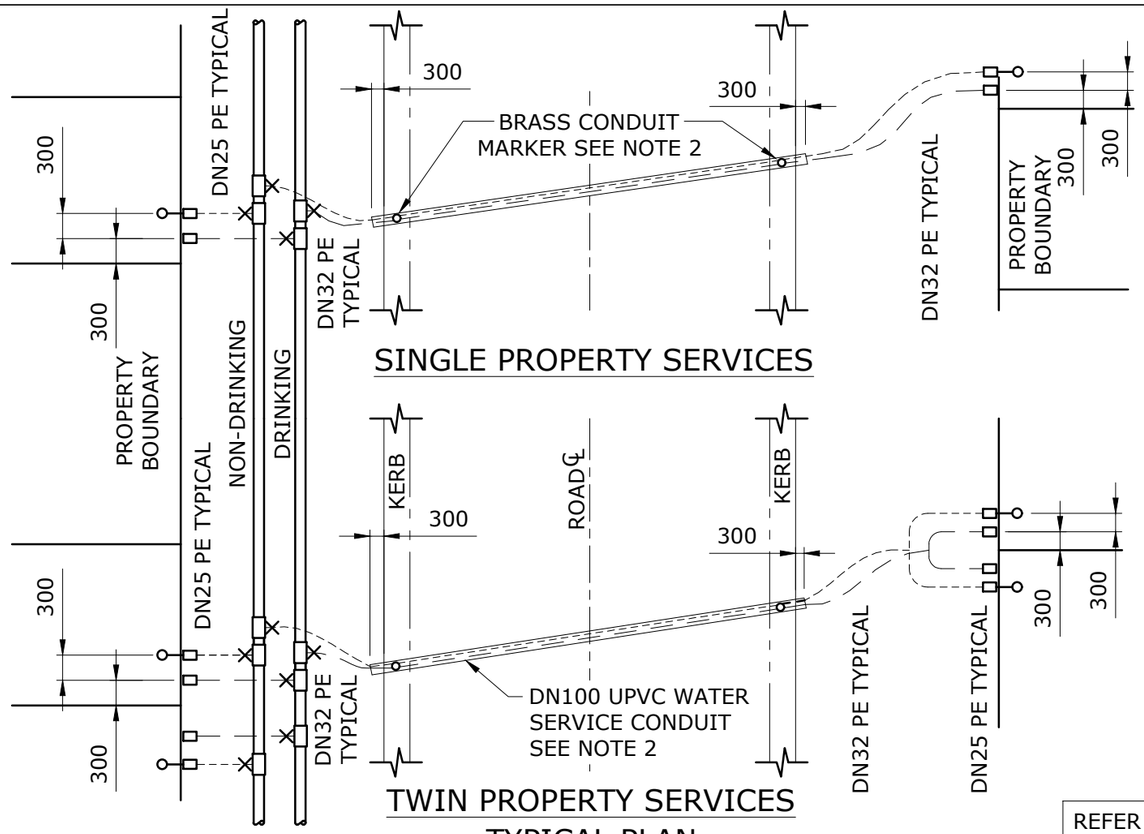
~~CoGC~~ ~~LGC~~ ~~RGC~~ UU ~~UW~~

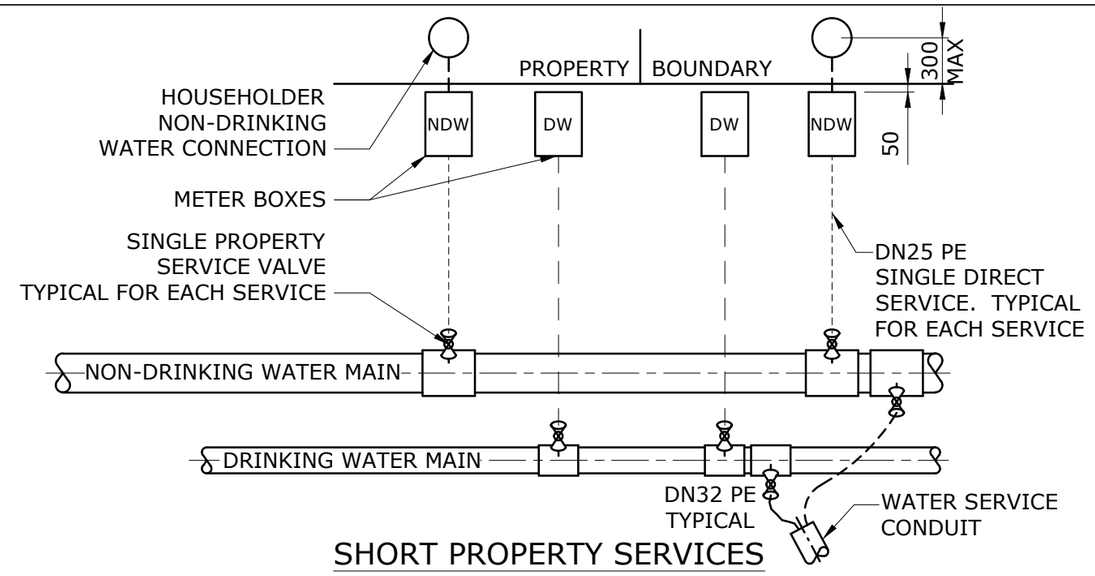
DRAWING No. SEQ-NDW-2102-1

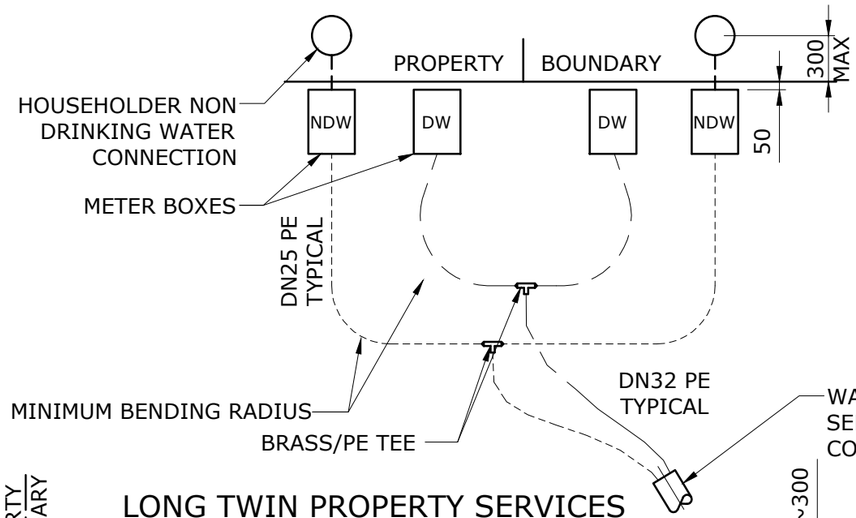
VERSION B

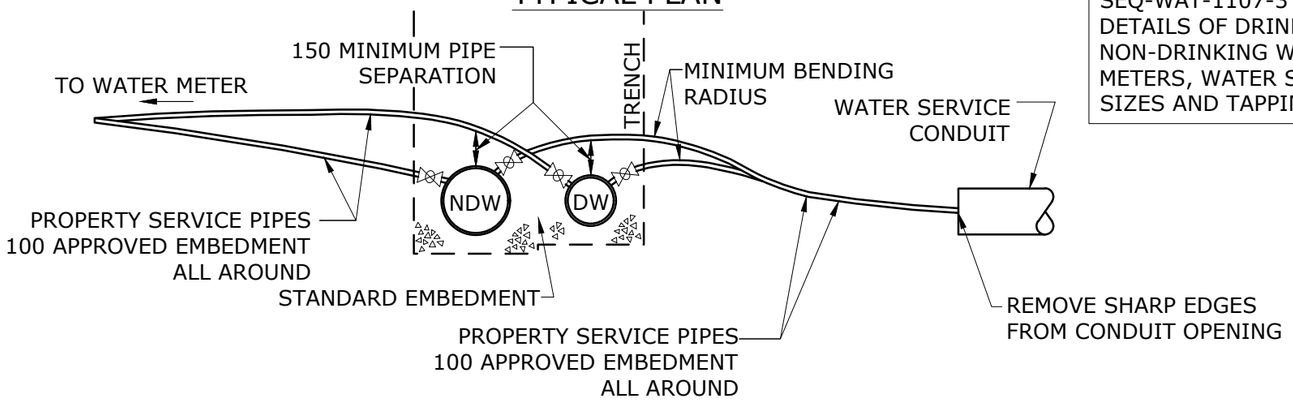
NOT TO SCALE

ORG DATE: 1/1/2013

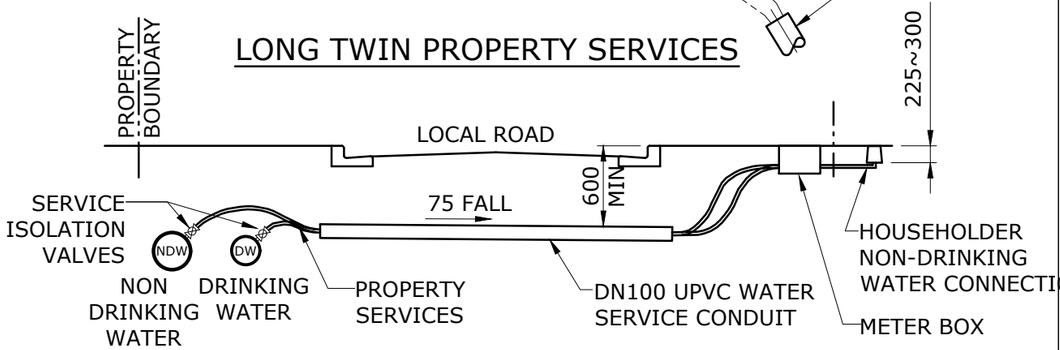








REFER SEQ-WAT-1107-1 TO SEQ-WAT-1107-3 FOR THE DETAILS OF DRINKING AND NON-DRINKING WATER METERS, WATER SERVICE SIZES AND TAPPING FITTINGS



NOTES

1. FOR MIN. BENDING RADIUS REFER SEQ-NDW-2104-1.
2. FOR DETAILS OF WATER SERVICE CONDUIT AND CONDUIT MARKER REFER SEQ-WAT-1107-1.
3. NON-DRINKING WATER SERVICES SHALL BE COLOURED PURPLED OR PURPLE STRIPED.
4. THE SIZE OF NDW SERVICES SHALL BE THE SAME SIZE AS THE DW SERVICES.
5. THE MAIN TAP BALL VALVE SHALL BE LEFT IN THE FULLY OPEN POSITION. THE BALL VALVE WITHIN THE WATER METER BOX SHALL BE LEFT IN THE FULLY CLOSED POSITION.

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION AND UU IN TITLE BLOCK.	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

PROPERTY SERVICES
MAINS IN SAME FOOTPATH
DUAL WATER SYSTEM

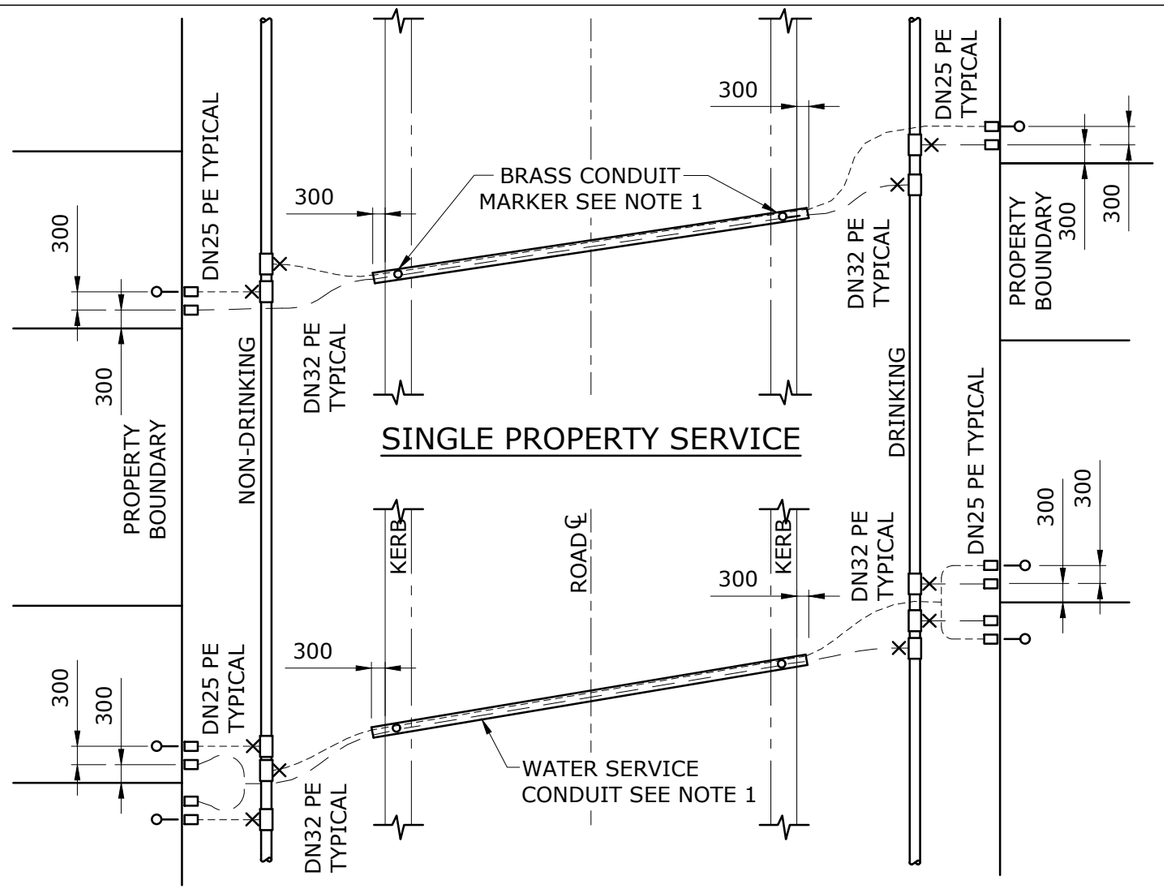
CoGC | LGC | RGC | UU | UW

DRAWING No. SEQ-NDW-2103-1

VERSION B

NOT TO SCALE

ORG DATE: 1/1/2013



SINGLE PROPERTY SERVICE

TWIN PROPERTY SERVICE

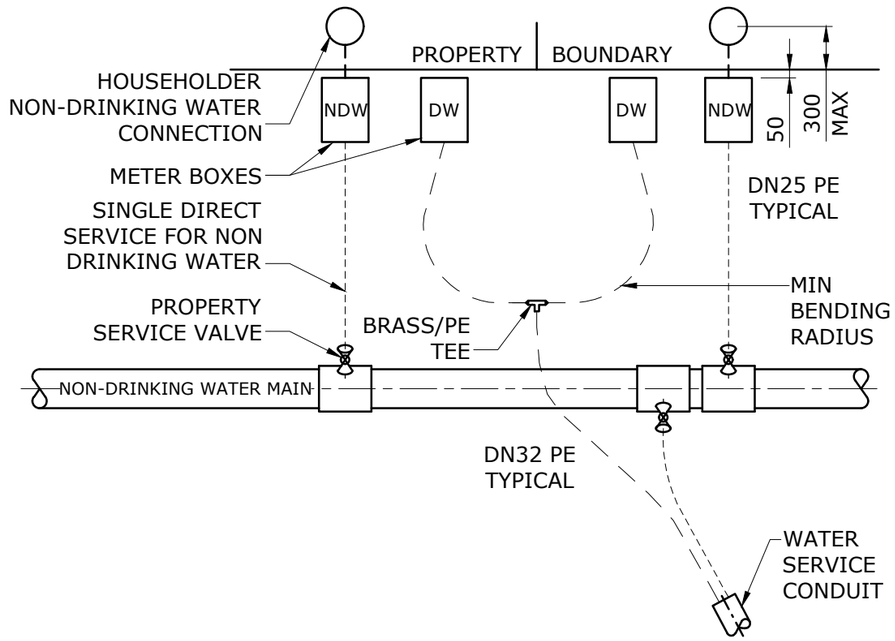
DRINKING WATER AND NON-DRINKING WATER MAINS ON OPPOSITE SIDE OF ROAD TYPICAL PLAN

MINIMUM BENDING RADIUS mm			
PIPE SIZE DN	PE BASED ON PIPA POP202	COPPER REFER TO AS 4809	
	PE 100 PN16	ANNEALED	BENDABLE
20	NOT USED	60	85
25	400	75	N/A
32	500	100	N/A
40	600	120	N/A
50	750	150	N/A

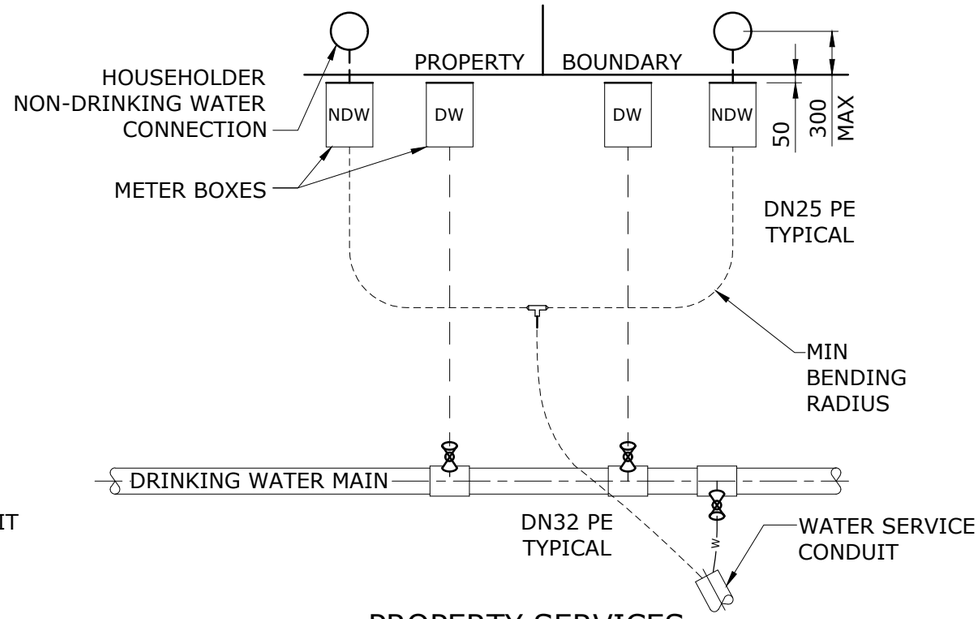
REFER SEQ-WAT-1107-1 TO SEQ-WAT-1107-3 FOR THE DETAILS OF DRINKING AND NON-DRINKING WATER METERS, WATER SERVICE SIZES AND TAPPING FITTINGS

NOTES

1. FOR DETAILS OF WATER SERVICE CONDUIT AND CONDUIT MARKER REFER SEQ-WAT-1107-1.
2. NON-DRINKING WATER SERVICES SHALL BE COLOURED PURPLE, OR PURPLE STRIPED.
3. THE SIZE OF NDW SERVICES SHALL BE THE SAME SIZE AS THE DW SERVICES.
4. THE MAIN TAP BALL VALVE SHALL BE LEFT IN THE FULLY OPEN POSITION. THE BALL VALVE WITHIN WATER METER BOX SHALL BE LEFT IN THE FULLY CLOSED POSITION.



PROPERTY SERVICES DRINKING WATER MAIN IN OPPOSITE FOOTPATH



PROPERTY SERVICES NON-DRINKING WATER MAIN IN OPPOSITE FOOTPATH

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION AND UU IN TITLE BLOCK.	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

SEQ-SPs ACCEPT NO LIABILITY FOR THE USE OF TYPICAL DRAWINGS, WHICH MUST BE ADAPTED TO THE REQUIREMENTS OF THE PARTICULAR SYSTEM OR NETWORK AND ACCOMPANIED BY DETAILED DESIGNS CERTIFIED BY AN RPEQ

WATER SUPPLY STANDARD DRAWING

PROPERTY SERVICES
MAINS IN OPPOSITE FOOTPATH
DUAL WATER SYSTEM

~~CoGC~~ ~~LGC~~ ~~RGC~~ UU ~~UW~~

DRAWING No. SEQ-NDW-2104-1

VERSION B

NOT TO SCALE

ORG DATE: 1/1/2013

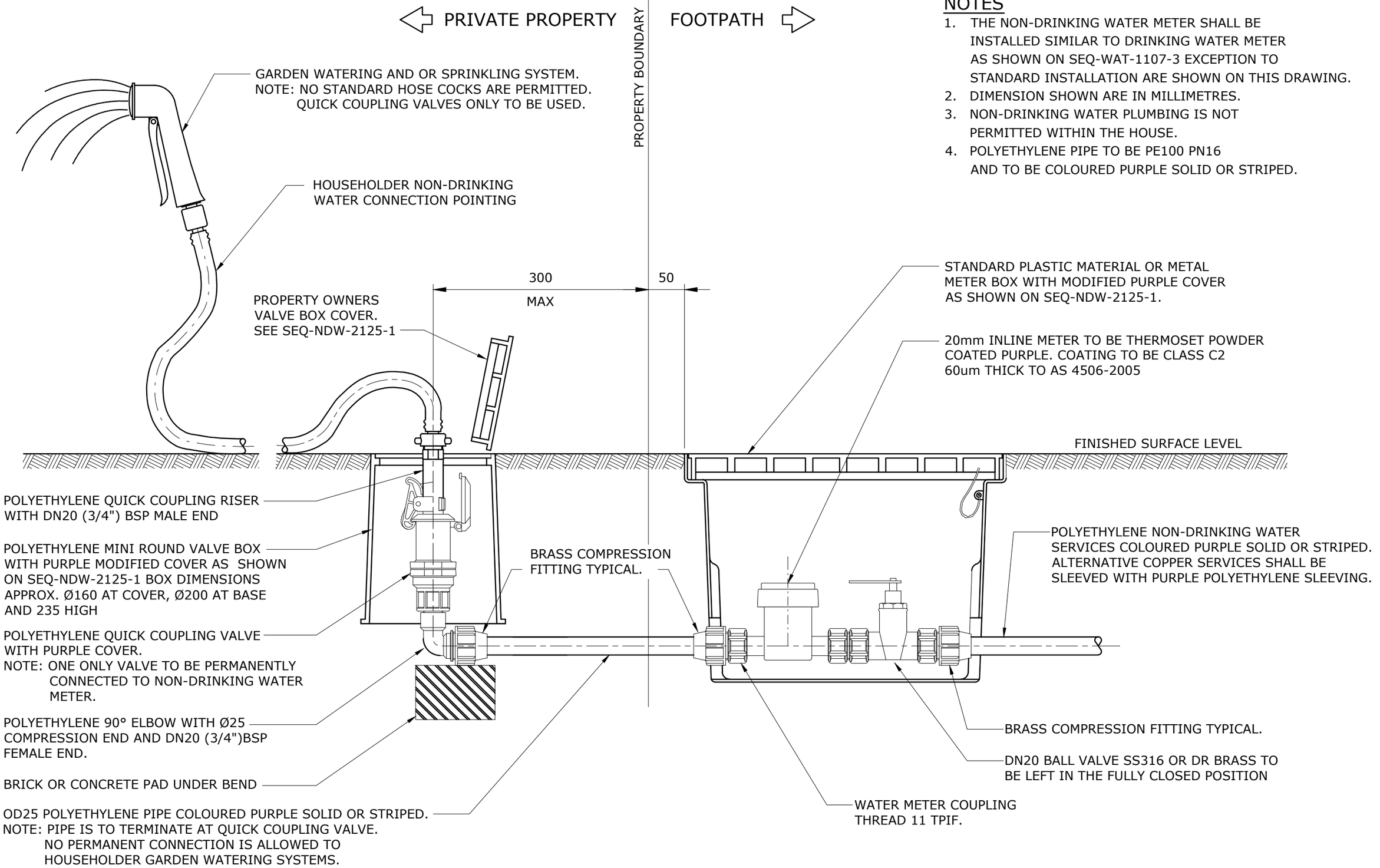
PRIVATE PROPERTY

FOOTPATH

PROPERTY BOUNDARY

NOTES

1. THE NON-DRINKING WATER METER SHALL BE INSTALLED SIMILAR TO DRINKING WATER METER AS SHOWN ON SEQ-WAT-1107-3 EXCEPTION TO STANDARD INSTALLATION ARE SHOWN ON THIS DRAWING.
2. DIMENSION SHOWN ARE IN MILLIMETRES.
3. NON-DRINKING WATER PLUMBING IS NOT PERMITTED WITHIN THE HOUSE.
4. POLYETHYLENE PIPE TO BE PE100 PN16 AND TO BE COLOURED PURPLE SOLID OR STRIPED.



REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION AND UU IN TITLE BLOCK.	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

METER INSTALLATION
NON DRINKING WATER
DUAL WATER SYSTEM

~~CoGC~~ ~~LGC~~ ~~RGC~~ UU ~~UW~~

DRAWING No.

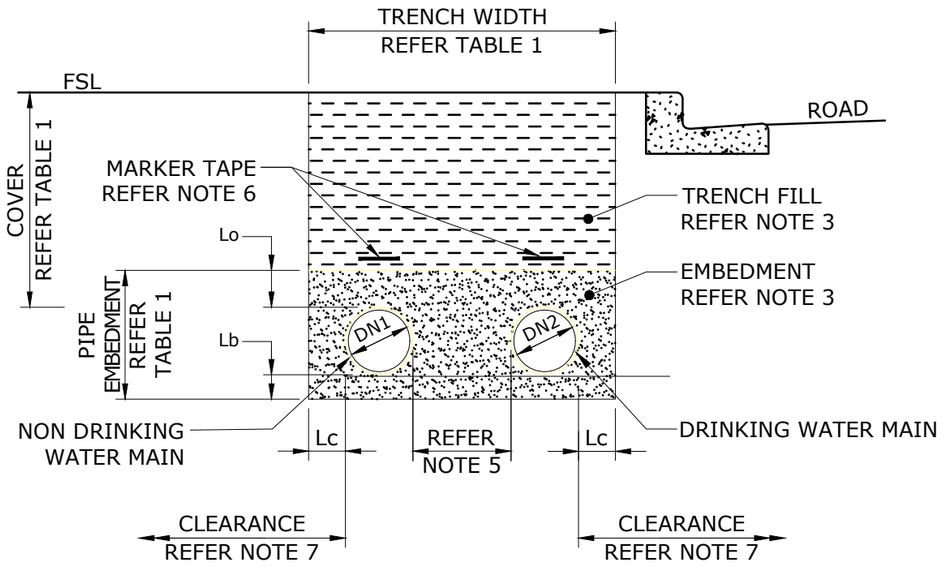
SEQ-NDW-2106-1

VERSION

B

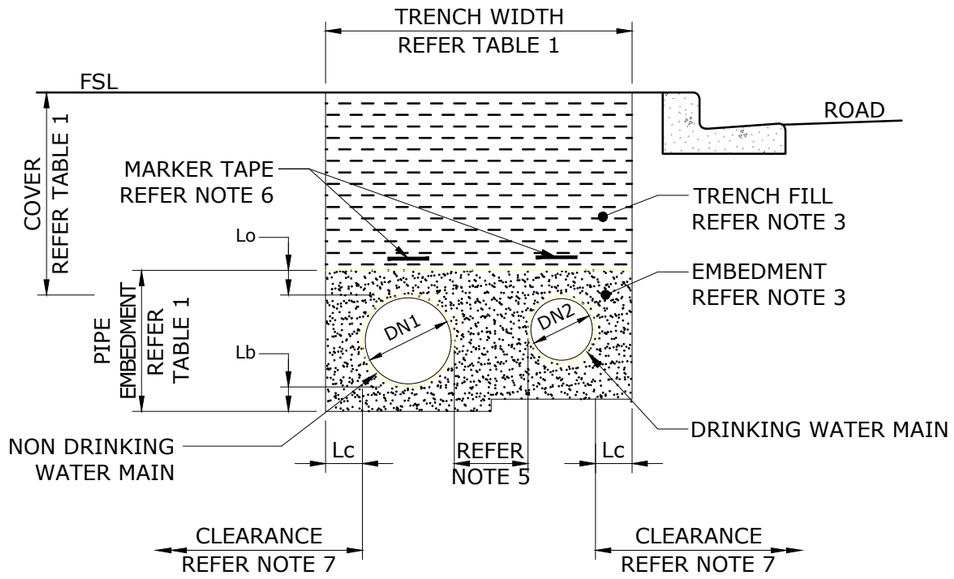
NOT TO SCALE

ORG DATE: 1/1/2013



TYPICAL TRENCH INSTALLATION

FOR SAME DIAMETER MAINS



TYPICAL TRENCH INSTALLATION

FOR DIFFERENT DIAMETER MAINS

NOMINAL DIAMETER	TRENCH AND EMBEDMENT DIMENSIONS				
	TRENCH WIDTH	COVER	BEDDING Lb	SIDE SUPPORT Lc	OVERLAY Lo
100	500+DN1+DN2	600	75	100	100
150					
200	600+DN1+DN2	1000	100	150	150
250	750+DN1+DN2				
300					
375	850+DN1+DN2			200	

TABLE 1

NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH SEQ-WATER-1200-1 AND SEQ-WAT-1200-2.
2. SPECIAL BEDDING SHALL BE SPECIFIED TO SUIT THE CONDITIONS IF THE TRENCH FLOOR HAS:
   - IRREGULAR OUTCROPS OF ROCK
   - AHBP OF LESS THAN 50 kPa (REFER TO SEQ-WAT-1200-1).
   - UNCONTROLLED GROUND WATER HAS DISTURBED THE FLOOR OF THE TRENCH.
3. EMBEDMENT, TRENCH FILL AND COMPACTION SHALL MEET THE REQUIREMENTS OF THE SEQ CODE AND THE ROAD OWNER AND WATER AGENCY AS APPROPRIATE.
4. SIDES OF EXCAVATION SHALL BE KEPT VERTICAL TO AT LEAST 150 ABOVE CROWN OF PIPES.
5. WHERE BOTH DN1 AND DN2 ARE EQUAL TO OR LESS THAN 200, MINIMUM CLEARANCE SHALL BE 300, EXCEPT WHERE ONE OR BOTH DN1 OR DN2 ARE GREATER THAN 200 MAINTAIN 450 MINIMUM CLEARANCE.
6. MARKER TAPE TO BE LAID ABOVE PIPE EMBEDMENT AS SHOWN.
7. MINIMUM CLEARANCES BETWEEN MAINS AND OTHER SERVICES SHALL BE IN ACCORDANCE WITH THE SEQ CODE.
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION AND UU IN TITLE BLOCK.	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

EMBEDMENT AND TRENCH FILL
MAIN ARRANGEMENT
DUAL WATER SYSTEM

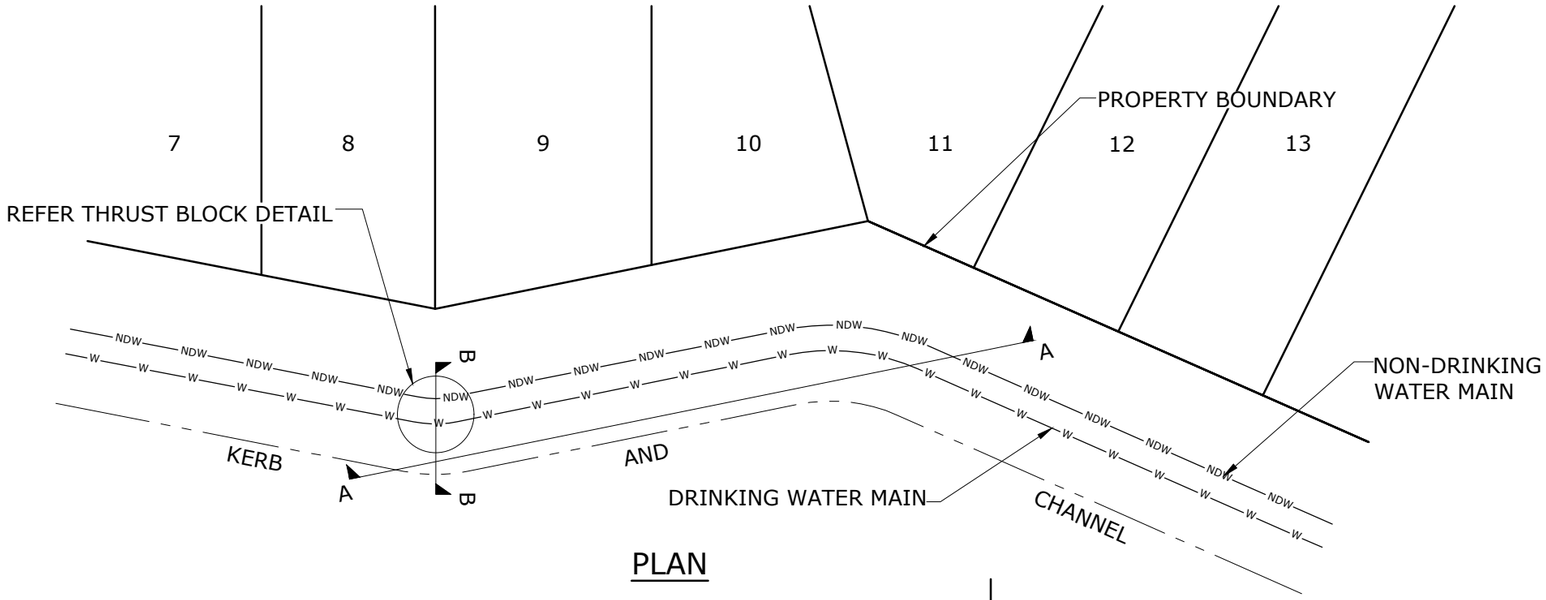
~~CoGC~~ ~~LCC~~ ~~RCC~~ UU ~~UW~~

DRAWING No. SEQ-NDW-2110-1

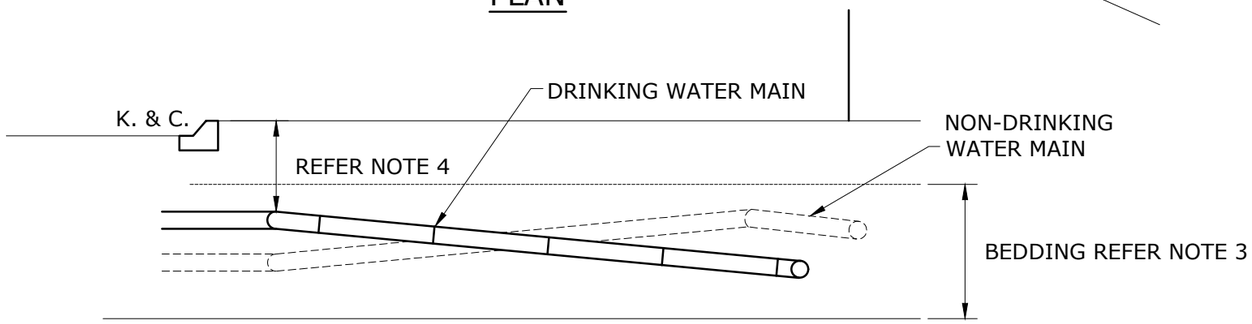
VERSION B

NOT TO SCALE

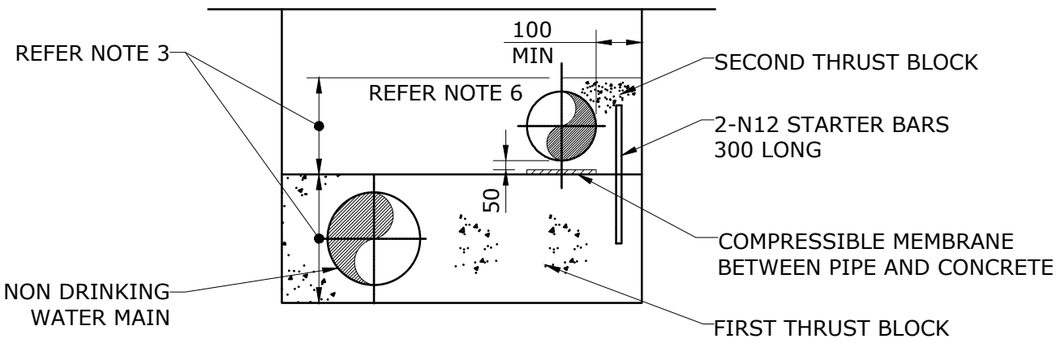
ORG DATE: 1/1/2013



PLAN



SECTION A-A



SECTION B-B

NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH SEQ-WAT-1200-1 & SEQ-WAT-1200-2.
3. BEDDING - SPECIAL BEDDING SHALL BE SPECIFIED TO SUIT THE CONDITIONS IF TRENCH FLOOR HAS:
   - IRREGULAR OUTCROPS OF ROCK;
   - AHBP OF <50 kPa (REFER TO SEQ-WAT-1200-1); OR
   - UNCONTROLLED GROUND WATER HAS DISTURBED THE FLOOR OF THE TRENCH.
4. EMBEDMENT, TRENCH FILL AND COMPACTION SHALL MEET THE REQUIREMENTS OF THE SEQ CODE AND THE ROAD OWNER AND WATER AGENCY AS APPROPRIATE.
5. SIDES OF THE EXCAVATION SHALL BE KEPT VERTICAL TO AT LEAST 150 ABOVE THE PIPES IN STRATA OTHER THAN SAND. FOR TRENCHES IN SAND STRATA REFER TO SEQ-WAT-1201-1.
6. WHERE BOTH DN1 AND DN2 ARE ≤200, MINIMUM CLEARANCE SHALL BE 300. WHERE ONE OR BOTH DN1 AND DN2 ARE > 200 MINIMUM CLEARANCE SHALL BE 450.
7. MARKING TAPE TO BE LAID ALONG ROUTE OF EACH MAIN AS SPECIFIED (REFER TO THE SEQ CODE).
8. MINIMUM CLEARANCES BETWEEN MAINS AND OTHER SERVICES SHALL BE IN ACCORDANCE WITH THE SEQ CODE.

THRUST BLOCK DETAIL

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION AND UU IN TITLE BLOCK.	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

CONCRETE THRUST BLOCKS FOR ADJACENT DUAL WATER MAINS

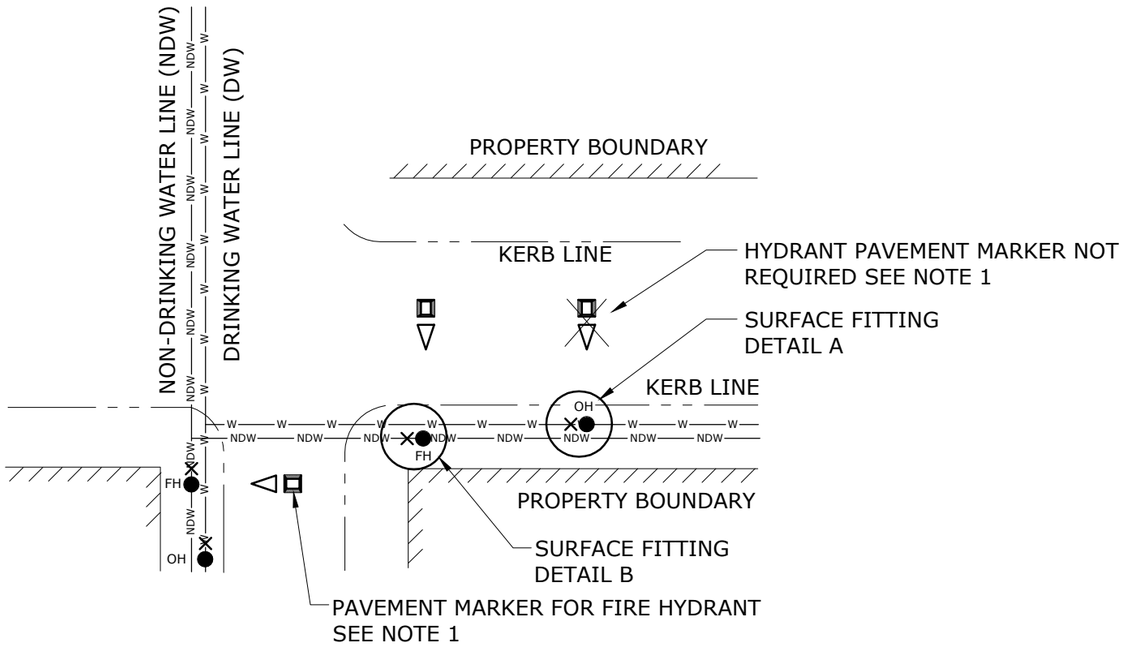
~~CoGC~~ ~~LGC~~ ~~RGC~~ UU ~~UW~~

DRAWING No. SEQ-NDW-2111-1

VERSION B

NOT TO SCALE

ORG DATE: 1/1/2013



TYPICAL POSITION OF HYDRANT PAVEMENT MARKERS

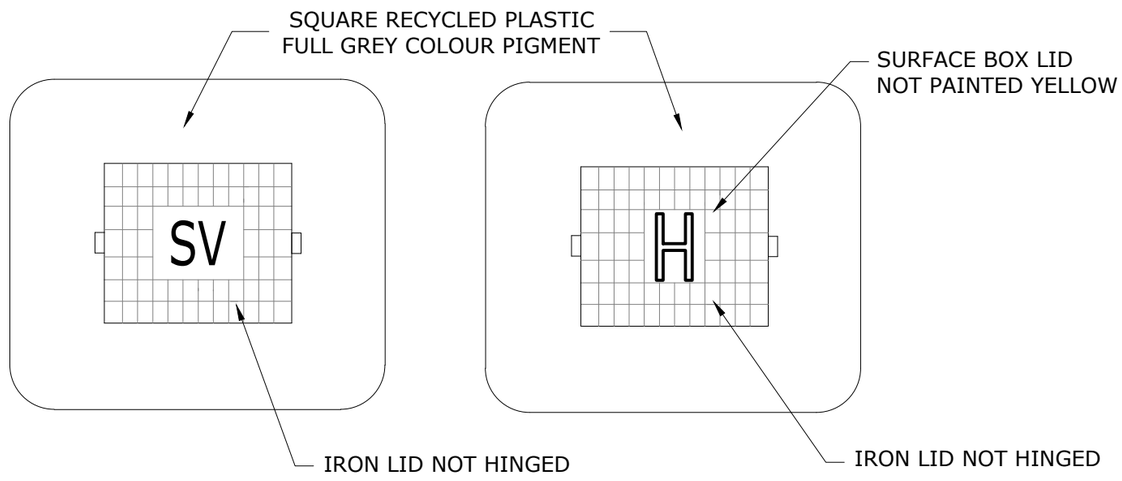
REFER SEQ-NDW-2125-1 FOR VALVE AND HYDRANT SURFACE BOXES AT TRAFFICABLE LOCATIONS.

NOTES

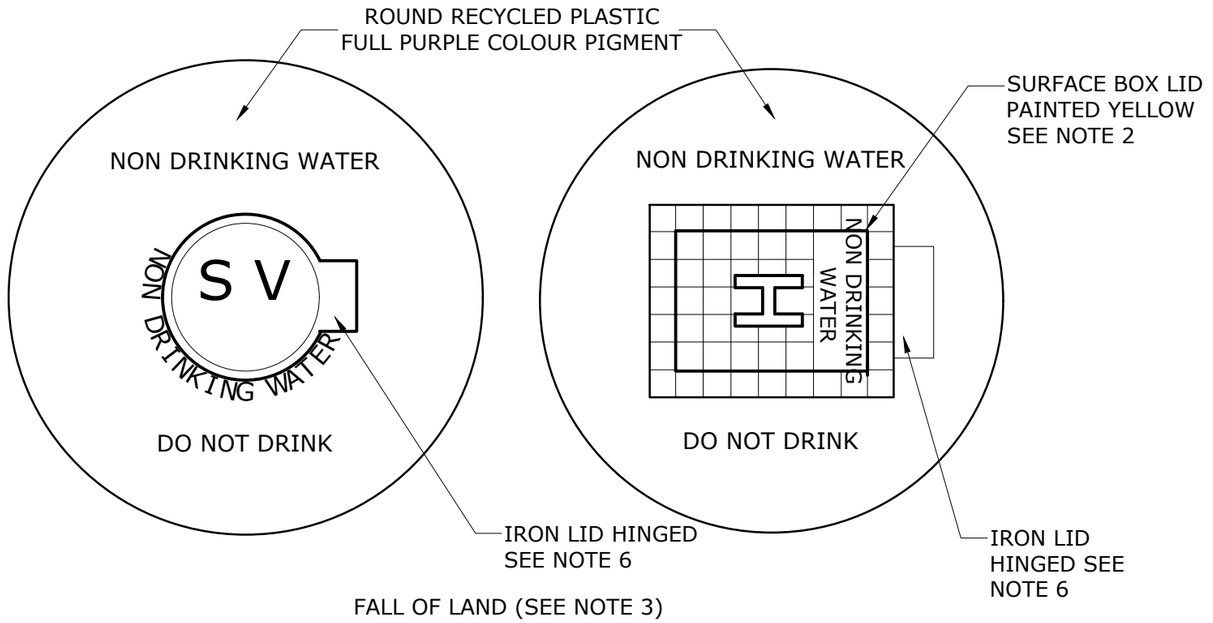
1. HYDRANT PAVEMENT MARKERS OR MARKER POSTS ARE ONLY REQUIRED FOR HYDRANTS ON NON-DRINKING WATER LINES. REFER SEQ-WAT-1300-1 AND SEQ-WAT-1300-2 FOR HYDRANT AND VALVE MARKING DETAILS EXCEPT THE REQUIREMENTS ARE SHOWN ON THIS DRAWING.
2. YELLOW PAINT IS ONLY REQUIRED FOR HYDRANT SURFACE BOX LIDS ON NON-DRINKING WATER LINES.
3. HINGED LIDS TO CLOSE IN DIRECTION OF ADJACENT ROAD LANE TRAFFIC OR FALL OF LAND
   AS APPROPRIATE TO THE SITE.
4. RECYCLED PLASTIC WITH FULL COLOUR PIGMENT SURROUNDS ARE TO BE USED FOR NON-TRAFFICABLE LOCATIONS ONLY, REFER SEQ-WAT-1305-1.
5. SQUARE SURROUNDS IN GREY ARE TO BE USED FOR DRINKING WATER LINES. ROUND SURROUNDS IN PURPLE ARE TO BE USED FOR NON-DRINKING WATER LINES.
6. HYDRANT BOX AND VALVE BOX LIDS ON NON-DRINKING WATER LINES ONLY ARE HINGED SO THAT LIDS CAN NOT BE INTERCHANGED.

NON-TRAFFICABLE BOXES

SEE SEQ-NDW-2125-2 FOR TRAFFICABLE BOXES



SURFACE BOXES ON DRINKING WATER LINES (DETAIL A)



SURFACE BOXES ON NON-DRINKING WATER LINES (DETAIL B)

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION AND UU IN TITLE BLOCK.	

SEQ WATER SERVICE PROVIDERS

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NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

TYPICAL HYDRANT AND VALVE SURFACE FITTING DETAILS DUAL WATER SYSTEM

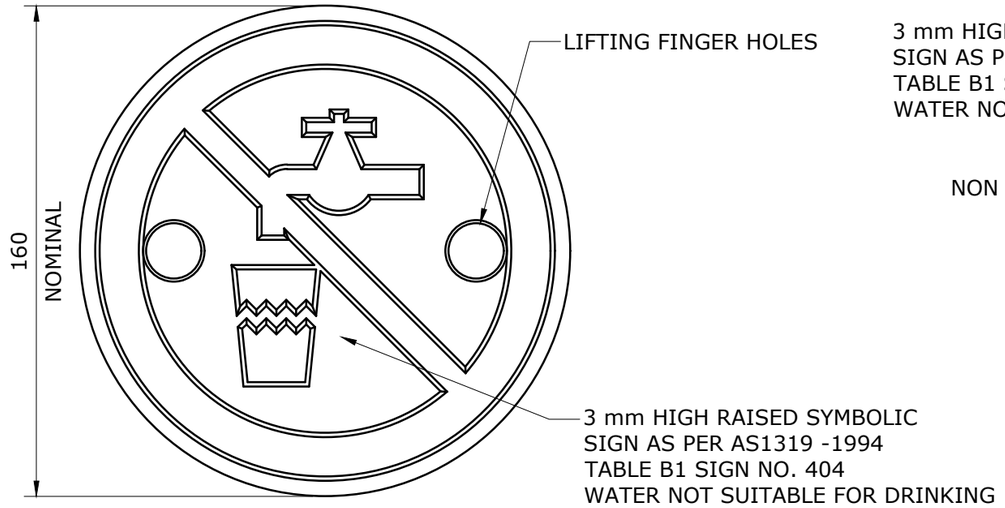
~~CoGC~~ ~~LGC~~ ~~RGC~~ UU ~~UW~~

DRAWING No. SEQ-NDW-2122-1

VERSION B

NOT TO SCALE

ORG DATE: 1/1/2013



NON DRINKING WATER
PROPERTY OWNERS VALVE BOX COVER

DIMENSIONS OF COVER TO MATCH MINI ROUND
PE VALVE BOX (200 BASE X 235 HIGH)
FOR COLOUR FINISH REFER TO NOTE 3

NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SEQ CODE, SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. COVERS MANUFACTURED IN PLASTIC MATERIALS ARE TO BE SOLID COLOUR PURPLE.
4. ALL PROJECTED SURFACES TO BE RAISED 3mm ABOVE PARENT SURFACE.
5. THE COLOUR PURPLE INDICATED IN NOTE 3 SHALL COMPLY WITH THE SPECIFICATION GIVEN IN THE PIPA DOCUMENT POP203.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

NON DRINKING WATER
METER BOX COVER

DIMENSIONS OF COVER TO MATCH STANDARD
PE DRINKING WATER METER BOX
FOR COLOUR FINISH REFER TO NOTE 3

REV. No.	DATE	DESCRIPTION	AUTH.
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SEQ WATER SERVICE PROVIDERS

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WATER SUPPLY STANDARD DRAWING

TYPICAL SURFACE FITTINGS
NON DRINKING WATER
DUAL WATER SYSTEM

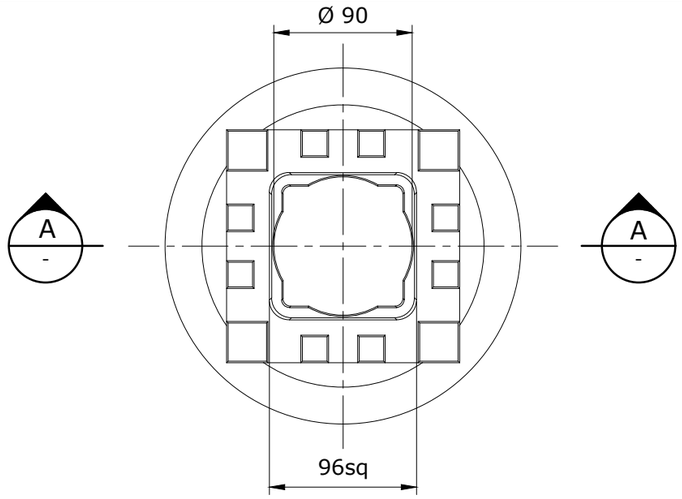
~~CoGC~~ ~~LGC~~ ~~RGC~~ UU ~~UW~~

DRAWING No.: SEQ-NDW-2125-1

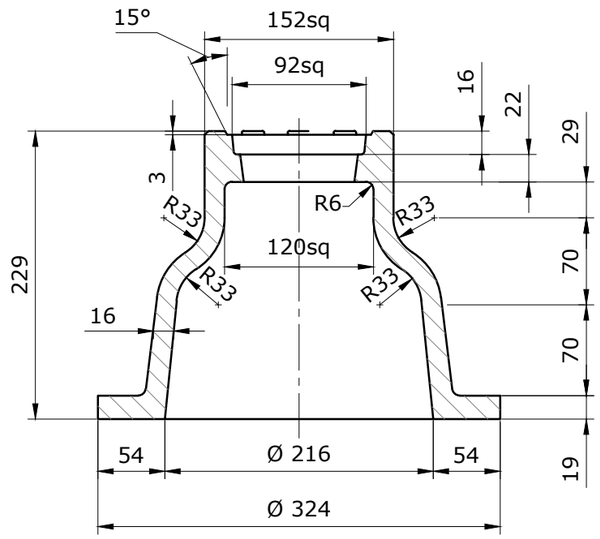
VERSION: B

NOT TO SCALE

ORG DATE: 1/1/2013



PLAN

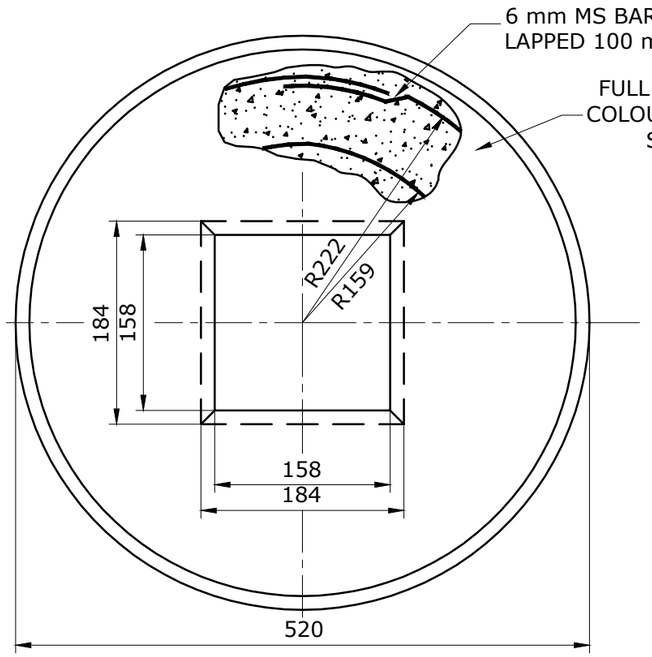


SECTIONAL ELEVATION
NON DRINKING WATER VALVE BOX

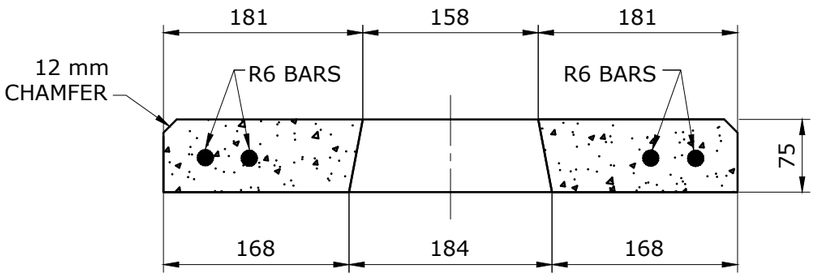
A
-

NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SEQ CODE, SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. LETTERING, CHEQUERS AND TRADEMARKS SHALL BE RAISED 3 mm.
4. FOR TYPICAL CHAMBER INSTALLATION REFER SEQ-WAT-1301-1 & SEQ-WAT-1302-1.
5. EXPOSED SURFACE OF METAL VALVE BOX COVER TO BE THERMOSET POWDER COATED PURPLE. COATING TO BE CLASS D 60µm THICKNESS TO AS4506.
6. ROUND NDW CONCRETE SURROUNDS FOR HYDRANT AND VALVE BOXES TO BE FULL DEPTH PURPLE.

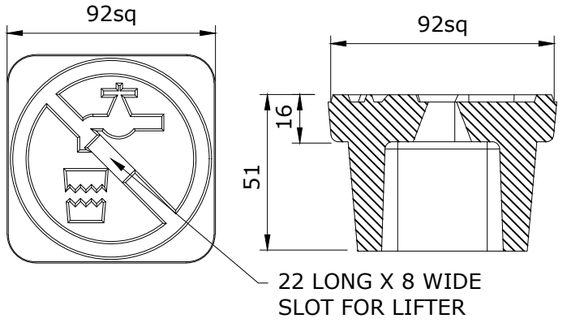


PLAN



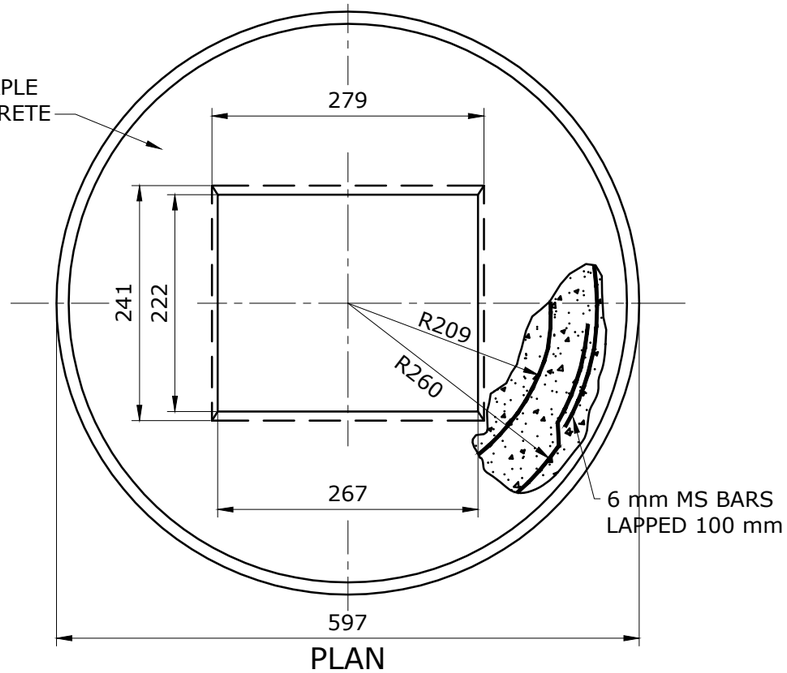
SECTIONAL ELEVATION

NON-DRINKING WATER VALVE BOX
CONCRETE SURROUNDS



PLAN SECTIONAL ELEVATION

NON DRINKING WATER VALVE BOX COVER



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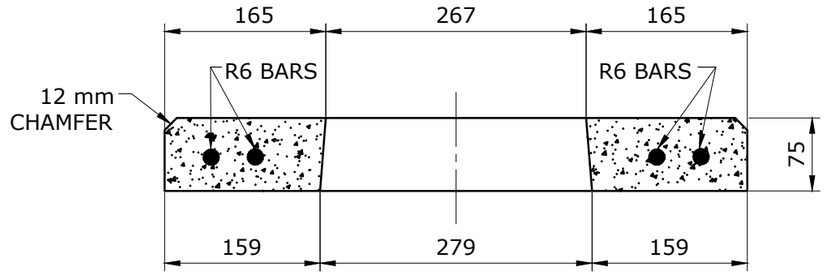

SECTIONAL ELEVATION

NON-DRINKING WATER HYDRANT BOX
CONCRETE SURROUNDS

CONCRETE SURROUNDS FOR HYDRANT AND VALVE BOXES ON DRINKING WATER TO BE SQUARE OR RECTANGULAR SHAPE AS PER SEQ-WAT-1306-1.

FOR DRINK WATER VALVE BOXES AND LIDS REFER SEQ-WAT-1305-1

HYDRANT BOXES ON DRINKING AND NON-DRINKING WATER LINES ARE THE SAME AS PER SEQ-WAT-1305-1.

a. HYDRANT BOX LIDS ON NON-DRINKING WATER LINES TO BE PAINTED YELLOW WITH ROUND CONCRETE SURROUNDS IN FULL DEPTH PURPLE COLOUR.
b. HYDRANT BOX LIDS ON DRINKING WATER LINES DO NOT REQUIRE YELLOW PAINT. ALSO THE RECTANGULAR CONCRETE SURROUNDS DO NOT REQUIRE PURPLE COLOUR.

REFER SEQ-NDW-2122-1 FOR SURFACE FITTINGS IN NON-TRAFFICABLE AREAS.

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION AND UU IN TITLE BLOCK.	

SEQ WATER SERVICE PROVIDERS

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NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

~~CoGC~~ ~~LGC~~ ~~RGC~~ UU ~~UW~~

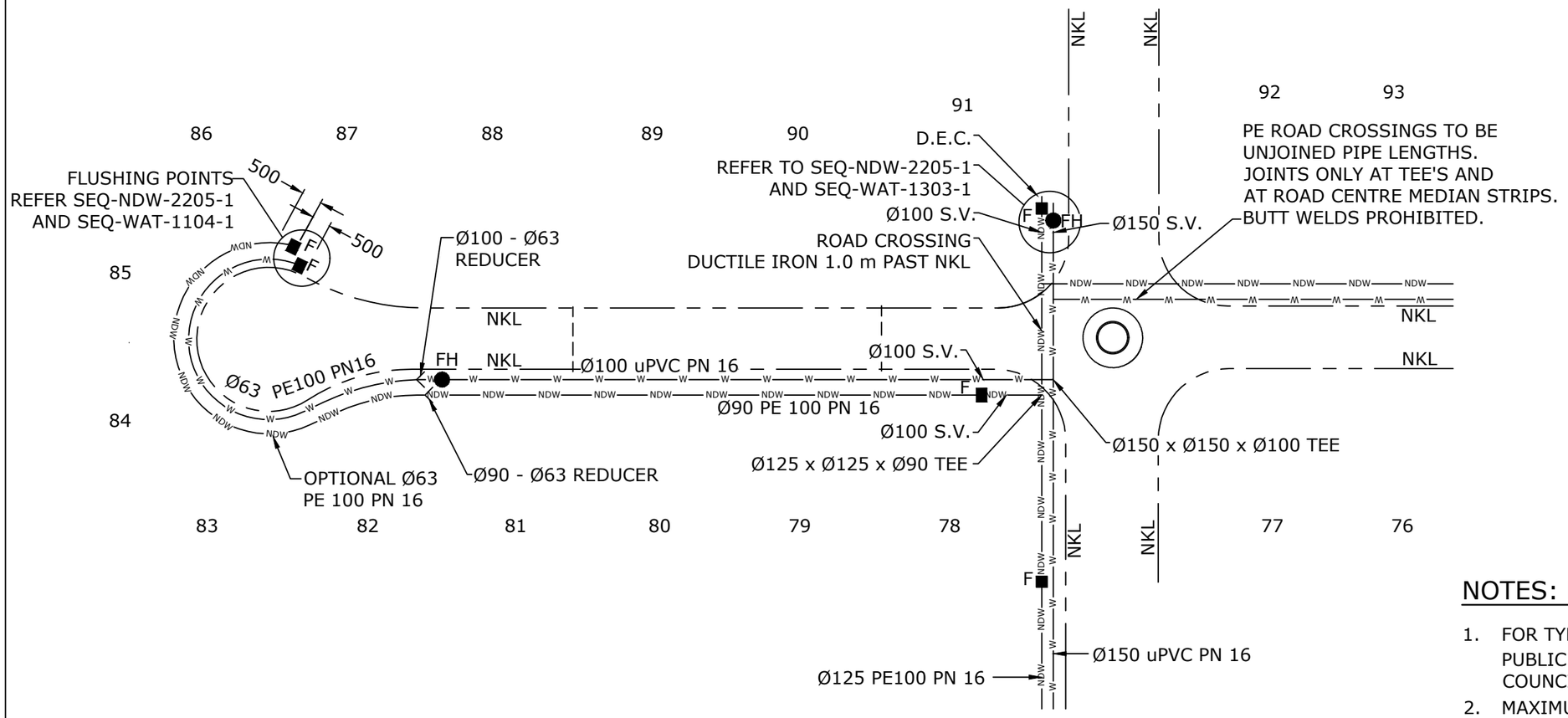
TYPICAL SURFACE FITTINGS
HYDRANT AND VALVE TRAFFICABLE AREAS
DUAL WATER SYSTEM

DRAWING No. SEQ-NDW-2125-2

VERSION B

NOT TO SCALE

ORG DATE: 1/1/2013



TYPICAL SITE PLAN - DUAL WATER SYSTEM

NON-DRINKING WATER SUPPLY MAIN CLOSEST TO PROPERTY

NOTES: DUAL RETICULATION

1. FOR TYPICAL FOOTPATH VERGE ALLOCATIONS FOR PUBLIC UTILITIES REFER TO THE LOCAL COUNCIL'S SERVICE ALLOCATION.
2. MAXIMUM DISTANCE BETWEEN NON-DRINKING WATER SYSTEM FLUSHING POINTS SHALL BE 160m AND AT ENDS, HIGH AND LOW POINTS.
3. STOP VALVES TO BE PROVIDED ON EVERY BRANCH SO THAT NO MORE THAN 40 SERVICES ARE AFFECTED BY ANY SHUT-DOWN.
4. PRIOR TO COMMENCING WORK ON SITE THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL EXISTING UTILITIES.
5. THE CONTRACTOR SHALL ENSURE THAT THE WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT ENVIRONMENTAL PROTECTION ACT.
6. FOR WATER SERVICE TYPICAL INSTALLATION DETAILS REFER TO SEQ-NDW-2203-1 & SEQ-NDW-2204-1.
7. REFER SEQ-GEN-1100-1 FOR LEGEND
8. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

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WATER SUPPLY STANDARD DRAWING

DUAL WATER SUPPLY SYSTEM
DESIGN LAYOUTS
TYPICAL SITE PLAN

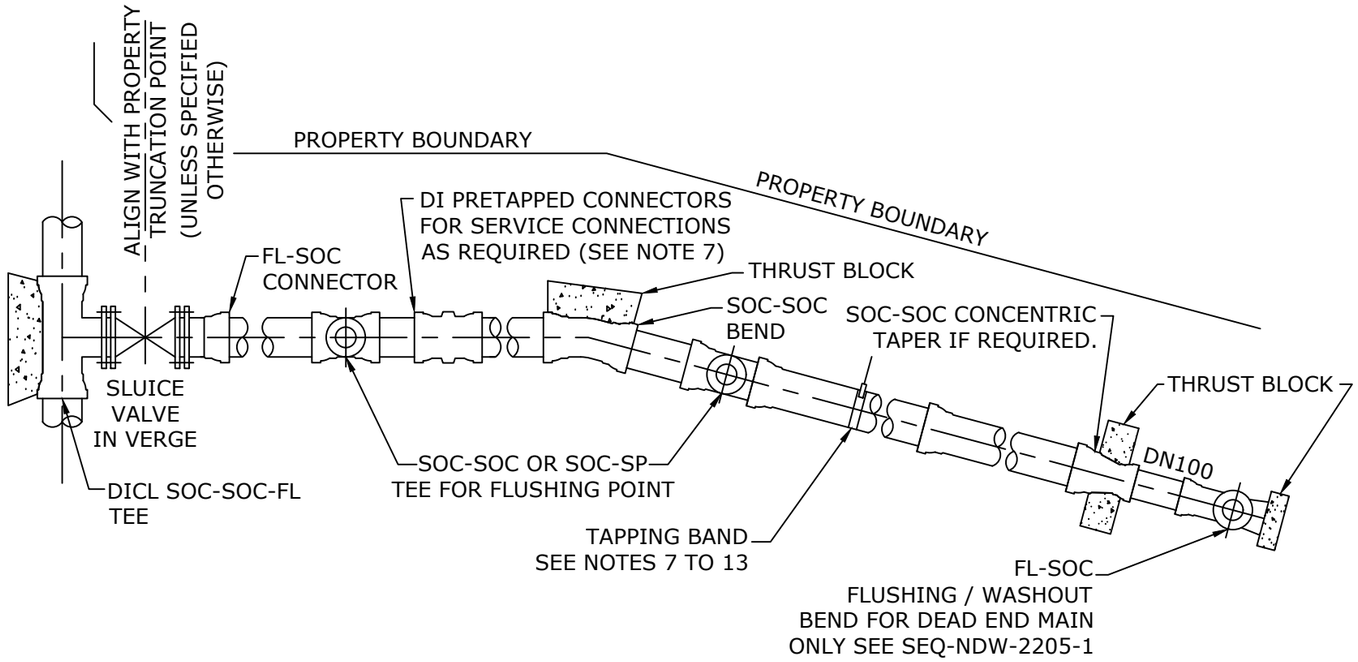
~~CoGC~~ ~~LGC~~ ~~RGC~~ ~~UU~~ UW

DRAWING No. SEQ-NDW-2200-1

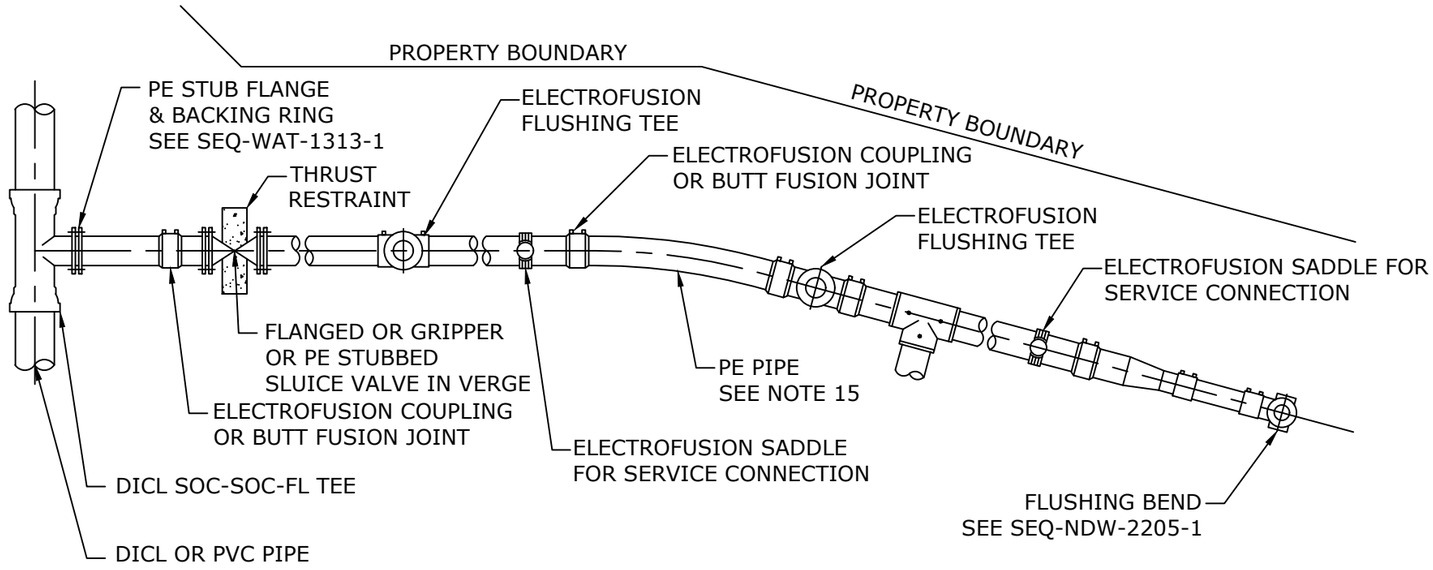
VERSION B

NOT TO SCALE

ORG DATE: 1/1/2013



TYPICAL DUAL WATER SYSTEM WATER INSTALLATION OF PVC & DI PIPES & FITTINGS



TYPICAL DUAL WATER SYSTEM WATER INSTALLATION OF PE PIPES & FITTINGS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. INSTALL PIPEWORK PARALLEL TO PROPERTY BOUNDARIES.
3. MAIN, SERVICE AND METER SHALL BE INSTALLED BY THE DEVELOPER.
4. WRAP FLANGES AND BOLTS, WITH A PETROLATUM TAPE SYSTEM IN ACCORDANCE WITH SEQ-WAT-1313-1.

DI & PVC PIPE

5. DUCTILE IRON FITTINGS MAY BE USED WITH DI & PVC PIPE. FITTINGS SHALL BE FBE COATED AND LINED. CEMENT LINED FITTINGS WITH A BITUMINOUS EXTERNAL COATING MAY BE USED WITH APPROVAL. DO NOT USE PVC FITTINGS.
6. PE SLEEVING, COLOURED FOR THE PRODUCT IS REQUIRED ON ALL DI PIPE AND FITTINGS APPLIED IN ACCORDANCE WITH AS 3681. TWO THICKNESSES REQUIRED BETWEEN FITTINGS AND THRUST BLOCK. REINSTATE ANY DAMAGED SLEEVING AS PER MANUFACTURER'S SPECIFICATIONS.
7. USE PRE-TAPPED CONNECTORS ON DN100 TO DN300 NEW MAIN INSTALLATIONS.
8. USE TAPPING BANDS FOR CONNECTIONS TO EXISTING MAINS.
9. FOR ALL RENEWALS, ELECTRICALLY ISOLATE COPPER SERVICES FROM DICL PIPE.

PVC PIPE

10 USE PRE-TAPPED CONNECTORS,REFER NOTE 7.
11. PVC PIPE SHALL NOT BE IN CONTACT WITH THRUST BLOCK CONCRETE.
12. MAXIMUM SIZE OF DRILLED HOLES FOR SERVICE CONNECTIONS IN PVC PIPE TO BE 30% DNOR 50mm (LOWER VALUE TO BE USED).

DI PIPE

13. DIRECT TAPPING OF DICL PIPE IS PROHIBITED.
14. DI SPIGOTS SHALL NOT BE FITTED INTO PVC SOCKETS.

PE PIPE

15. PE PIPE MAY BE COLD BENT TO MAXIMUM RADIUS AS PER POP202. STAKES OR OTHER SOURCES OF POINT LOADS SHALL NOT BE USED TO ASSIST IN BENDING THE PIPE.
16. MAKE ALLOWANCE DURING CONSTRUCTION FOR EXPANSION AND CONTRACTION OF PE PIPE DUE TO TEMPERATURE CHANGES.
17. ELECTROFUSION AND BUTT WELDING TO BE IN ACCORDANCE WITH WSA-01 (POLYETHYLENE CODE), BUTT WELDING IN TRENCHES IS NOT PERMITTED.
18. ALL MECHANICAL COUPLINGS TO BE SELF-RESTRAINING.
19. REFER SEQ-NDW-2212-1 FOR TYPICAL PE ARRANGEMENTS.

VALVES

20. ALL VALVES TO BE RESTRAINED, REFER SEQ-WAT-1206-1.

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SEQ WATER SERVICE PROVIDERS

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WATER SUPPLY STANDARD DRAWING

DUAL WATER SUPPLY SYSTEM
TYPICAL MAINS CONSTRUCTION

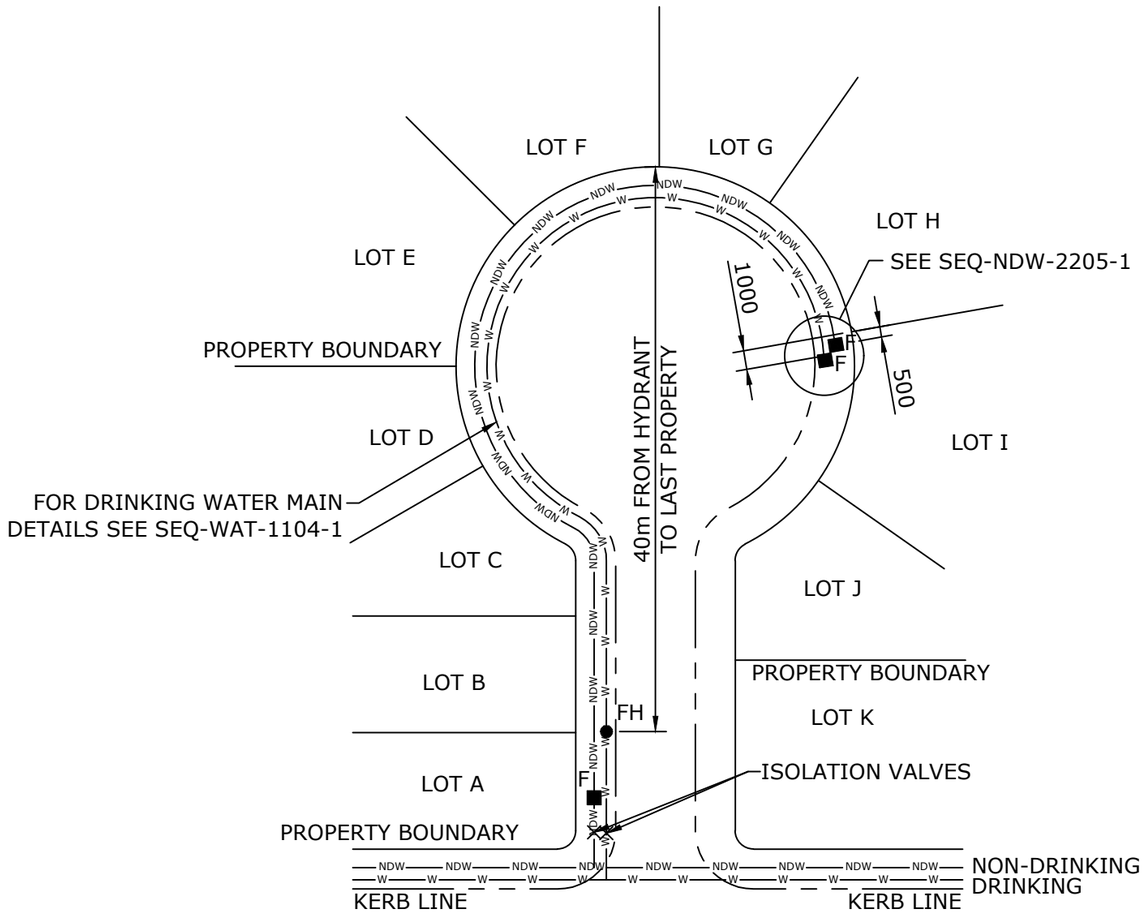
CoGC | LGC | RGC | UU | UW

DRAWING No. SEQ-NDW-2201-1

VERSION B

NOT TO SCALE

ORG DATE: 1/1/2013



TERMINAL END OF CUL-DE-SAC

MAXIMUM NUMBER OF
PROPERTY SERVICE CONNECTIONS
TO NON-DRINKING WATER
DN 63 MAINS

10 ET (DWELLINGS)

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. PIPE MATERIAL TO BE IN ACCORDANCE WITH CODE.
3. PE ELECTROFUSION (EF) FITTINGS TO BE CLASS PN 16 (MIN.)
4. WHERE POSSIBLE USE A SINGLE LENGTH OF PE PIPE.
5. DO NOT CURVE PE PIPES TO A RADIUS OF LESS THAN THAT NOMINATED IN POP202.
6. BACKING FLANGES, NUTS, BOLTS AND WASHERS TO BE MANUFACTURED FROM GRADE 316 STAINLESS STEEL.
7. THRUST BLOCKS TO BE IN ACCORDANCE WITH SEQ-WAT-1205-1 AND SEQ-WAT-1206-1.
8. FIT THE FLUSHING POINT VALVE IN SUCH A WAY AS TO PREVENT MOVEMENT OR ROTATION OF THE VALVE BODY. PROVIDE A SUITABLE DUST CAP TO KEEP OUT DIRT AND GRAVEL. DRILL DUST CAP WITH 4 DIA DRILL.
9. FOR CONNECTION TO EXISTING MAINS SEE SEQ-WAT-1105-2.

REV. No.	DATE	DESCRIPTION	AUTH.
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WATER SUPPLY STANDARD DRAWING

DUAL WATER SUPPLY SYSTEM
TYPICAL MAINS CONSTRUCTION
CUL-DE-SAC ARRANGEMENT

~~CoGC~~ ~~LCC~~ ~~RCC~~ ~~UU~~ UW

DRAWING No.

SEQ-NDW-2202-1

VERSION

B

NOT TO SCALE

ORG DATE:
1/1/2013

• NON-DRINKING WATER SERVICE CONDUIT (BRASS / S/STEEL)

• DRINKING WATER SERVICE CONDUIT (BRASS / S/STEEL)

WATER SERVICE CONDUIT MARKER

✳ PIPE DRILLING/TAPPING SPACING DETAIL

PE = 500 MIN

PVC = 600 MI FOR Ø100, 900 MIN FOR Ø150

DI = 600 MIN

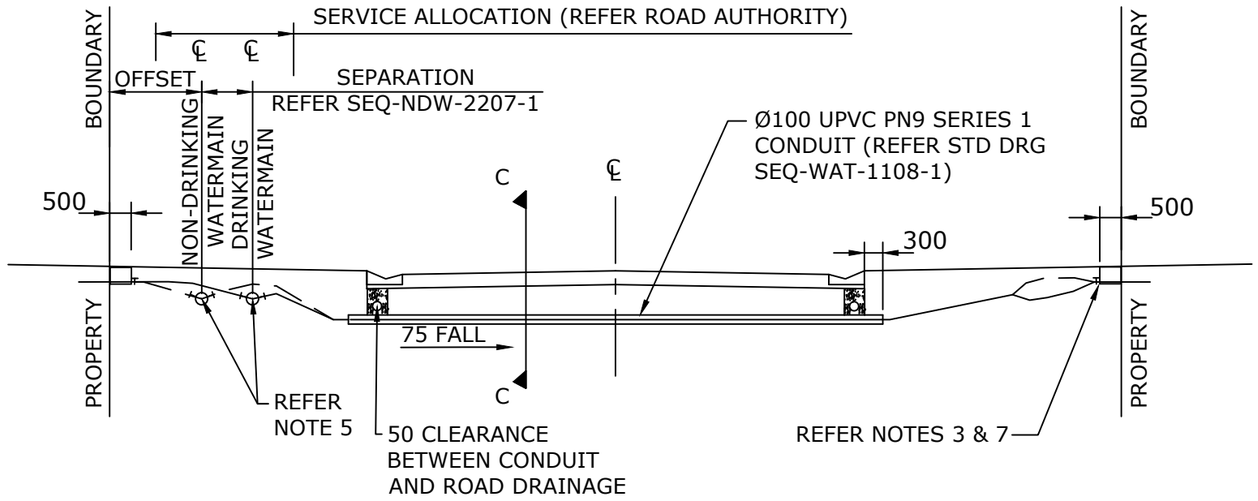
NOTES:

1. PROPERTY SERVICE PIPE SHALL BE POLYETHYLENE PIPE TO AS/NZS 4130 SERIES 1 PN16/SDR11 PE100 SOLID OR JACKETED LILAC/PURPLE FOR CLASS A+ NON-DRINKING WATER.
2. SINGLE PROPERTY SERVICE PIPE TO 20 m IN LENGTH IS DN25.
   SINGLE PROPERTY SERVICE PIPE OVER 20 m IN LENGTH IS DN32.
3. METER BOX INSTALLATION REFER TO SEQ-WAT-1108-3.
4. PROPERTY SERVICE PIPE, BALL VALVES, DUCTILE IRON PRE-TAPPED PROPERTY SERVICE FITTING AND ASSOCIATED FITTINGS SHALL BE JOINTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
5. THE MAIN TAP BALL VALVE SHALL BE LEFT IN THE FULLY OPEN POSITION.
6. THE WATER METER BALL VALVE WITHIN BOX SHALL BE LEFT IN THE FULLY CLOSED POSITION.
7. THE PROPERTY SERVICE PIPE SHALL BE PERPENDICULAR TO THE FRONT RP BOUNDARY.
8. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
9. SERVICE CONDUITS TO BE ANGLED ACROSS ROADWAY WITH KERB MARKERS PERPENDICULAR TO ROAD AND ALIGNED TO COMMON PROPERTY BOUNDARY.
10. METER LOCATION - DRINKING WATER RIGHT, NON-DRINKING WATER LEFT.

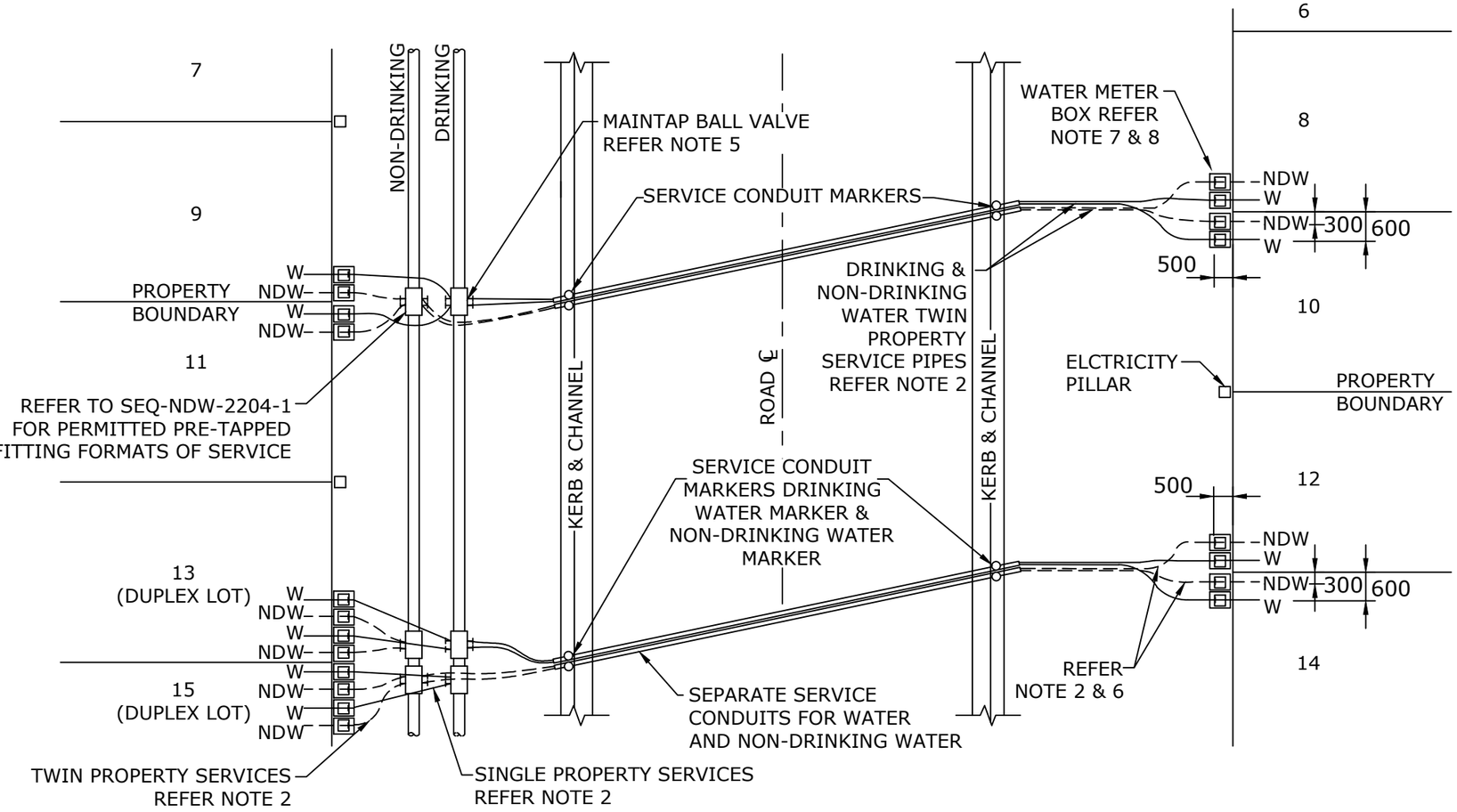
LEGEND:

W - DRINKING WATER

NDW - NON-DRINKING WATER



TYPICAL SECTION



PLAN

REV. No.	DATE	DESCRIPTION	AUTH.
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SEQ WATER SERVICE PROVIDERS

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NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

DUAL WATER SUPPLY SYSTEM
TWIN PROPERTY SERVICES
MAIN TO METER

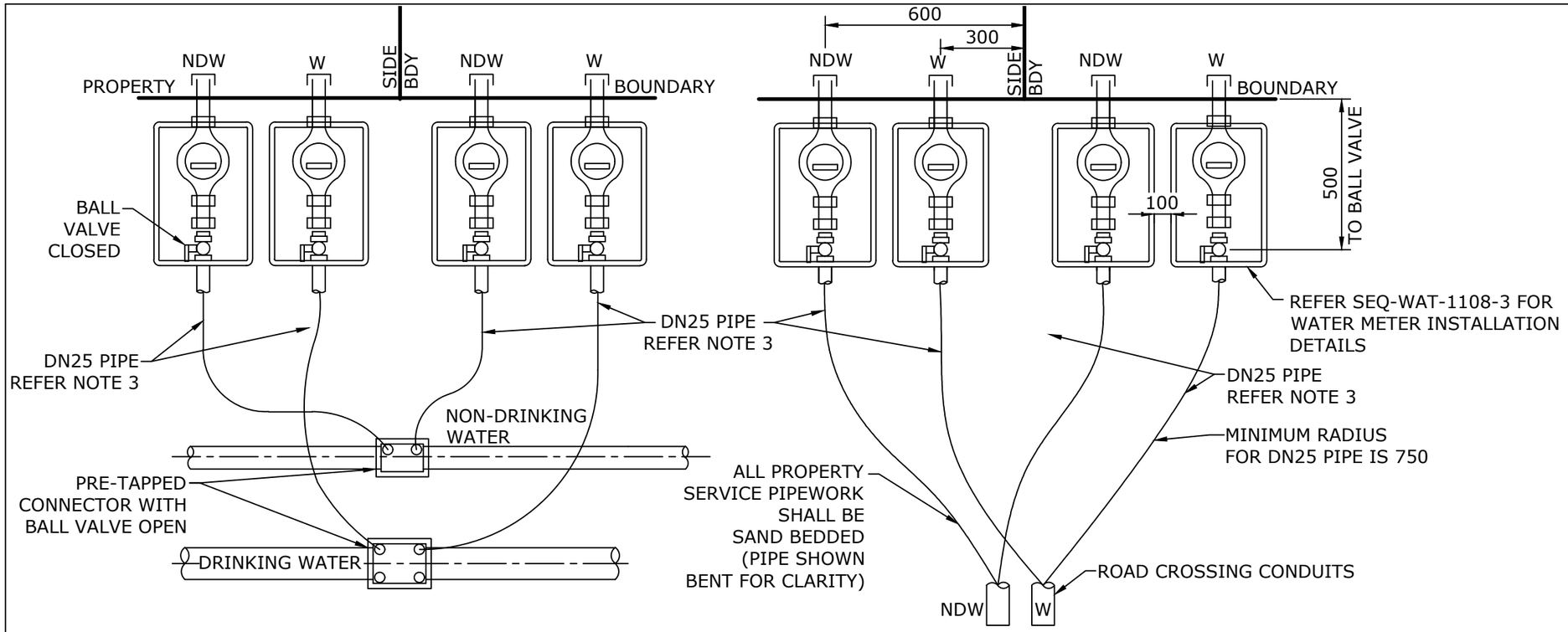
CoGC | LCC | RCC | UU | UW

DRAWING No. SEQ-NDW-2203-1

VERSION B

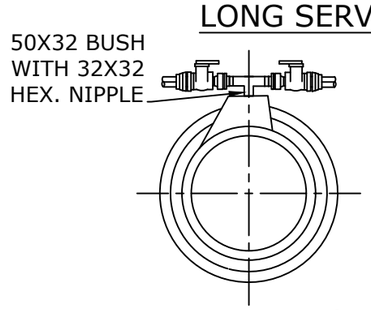
NOT TO SCALE

ORG DATE: 1/1/2013

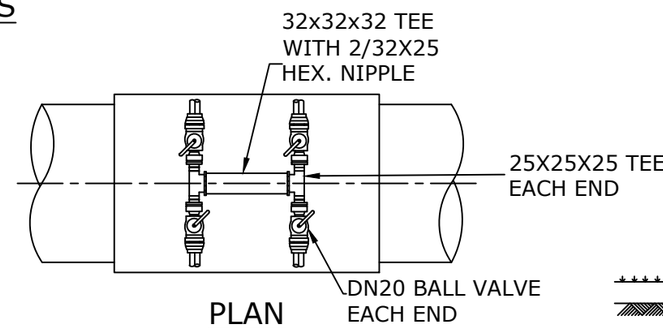


SHORT SERVICES

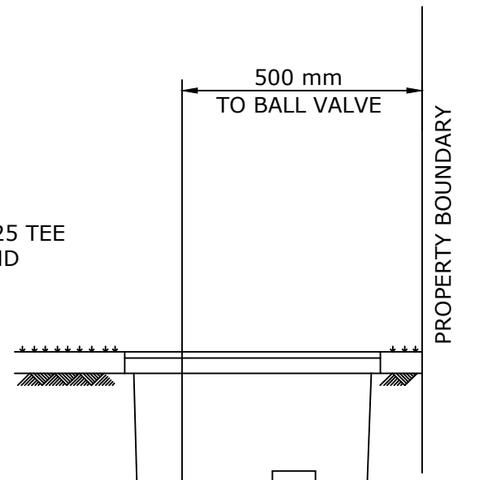
LONG SERVICES



END ELEVATION



PLAN

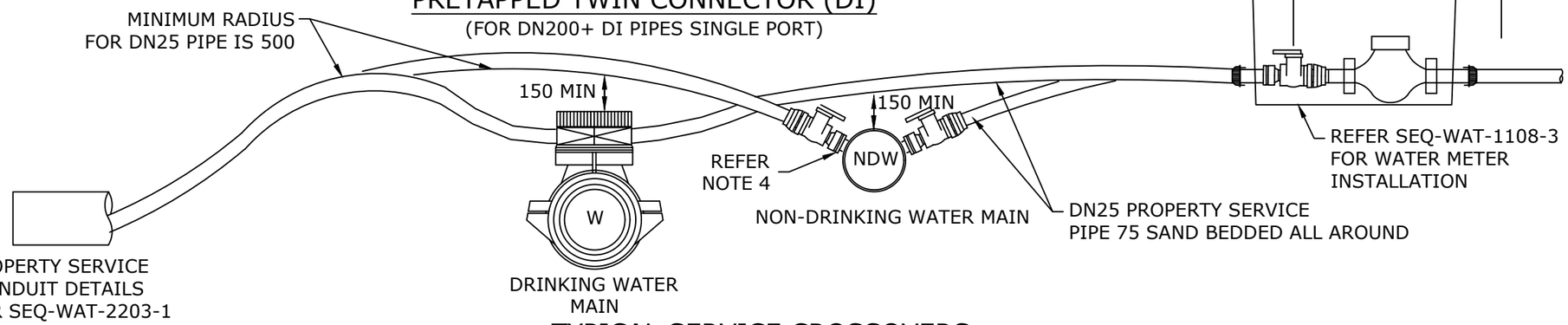


NOTES:

1. FOR SINGLE PROPERTY SERVICE AND GENERAL PROPERTY SERVICE INSTALLATION DETAILS REFER TO STD DWG SEQ-WAT-1108-2. TWIN DRINKING AND TWIN NON-DRINKING WATER SERVICE TYPICAL INSTALLATION DETAILS REFER STD DWG. SEQ-NDW-2203-1.
2. FOR PROPERTY SERVICE PIPE DETAILS REFER TO NOTES AND THE GENERAL DETAILS ON STD DWG SEQ-NDW-2203-1.
3. FOR NON-DRINKING WATER PROPERTY SERVICE PRESSURE PIPE COLOURS AND MARKING DETAILS REFER TO STANDARD DRAWING SEQ-NDW-2203-1.
4. FOR MINIMUM TAPPING DISTANCES REFER TO STANDARD DRAWING SEQ-NDW-2203-1.
5. FOR WATER METER INSTALLATION DETAILS REFER SEQ-WAT-1108-3.
6. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

PRETAPPED TWIN CONNECTOR (DI)

(FOR DN200+ DI PIPES SINGLE PORT)



TYPICAL SERVICE CROSSOVERS

(FOR DN100 - DN300 PE & DI PIPES)

REV. No.	DATE	DESCRIPTION	AUTH.
C	01/02/24	NOT FOR CONSTRUCTION, CoGC AND UU IN THE TITLE BLOCK	
B	24/07/15	ADD SIZING FOR PRETAPPED TWIN CONNECTOR	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

DUAL WATER SUPPLY SYSTEM
TWIN PROPERTY SERVICES
MAIN TO METER

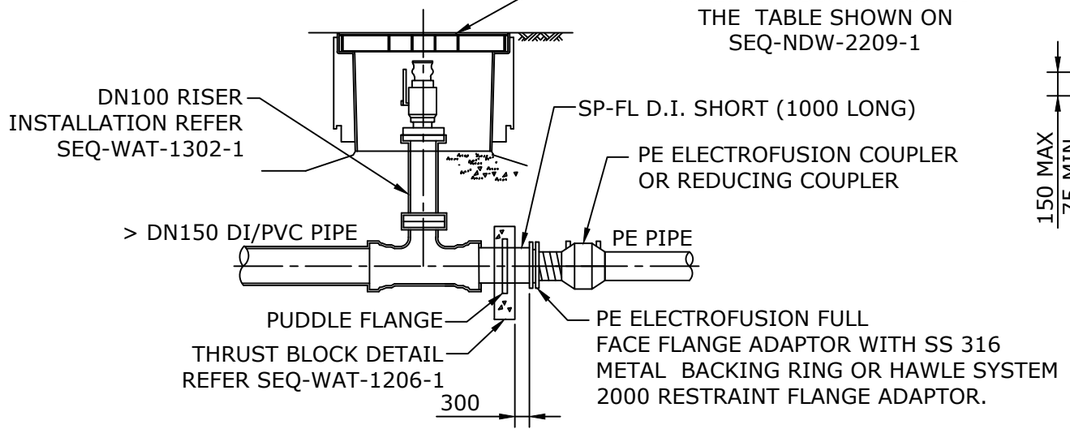
CoGC | LGC | RGC | UU | UW

DRAWING No. SEQ-NDW-2204-1

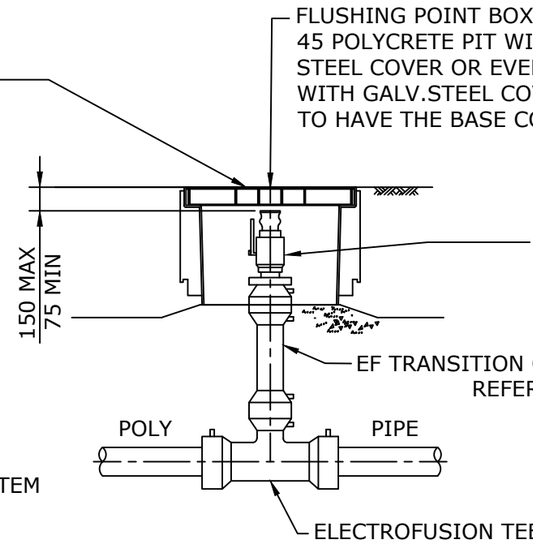
VERSION C

NOT TO SCALE

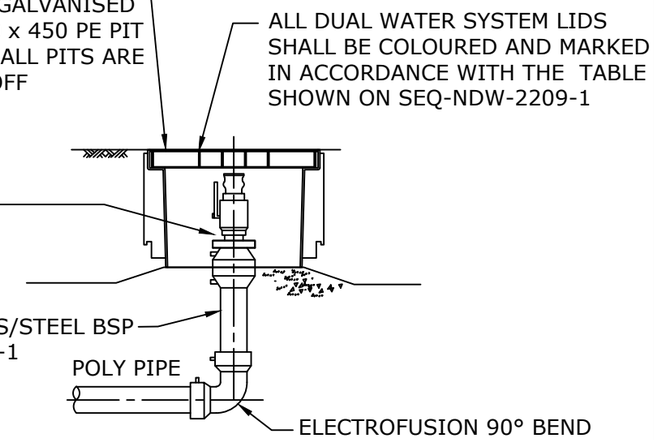
ORG DATE: 1/1/2013



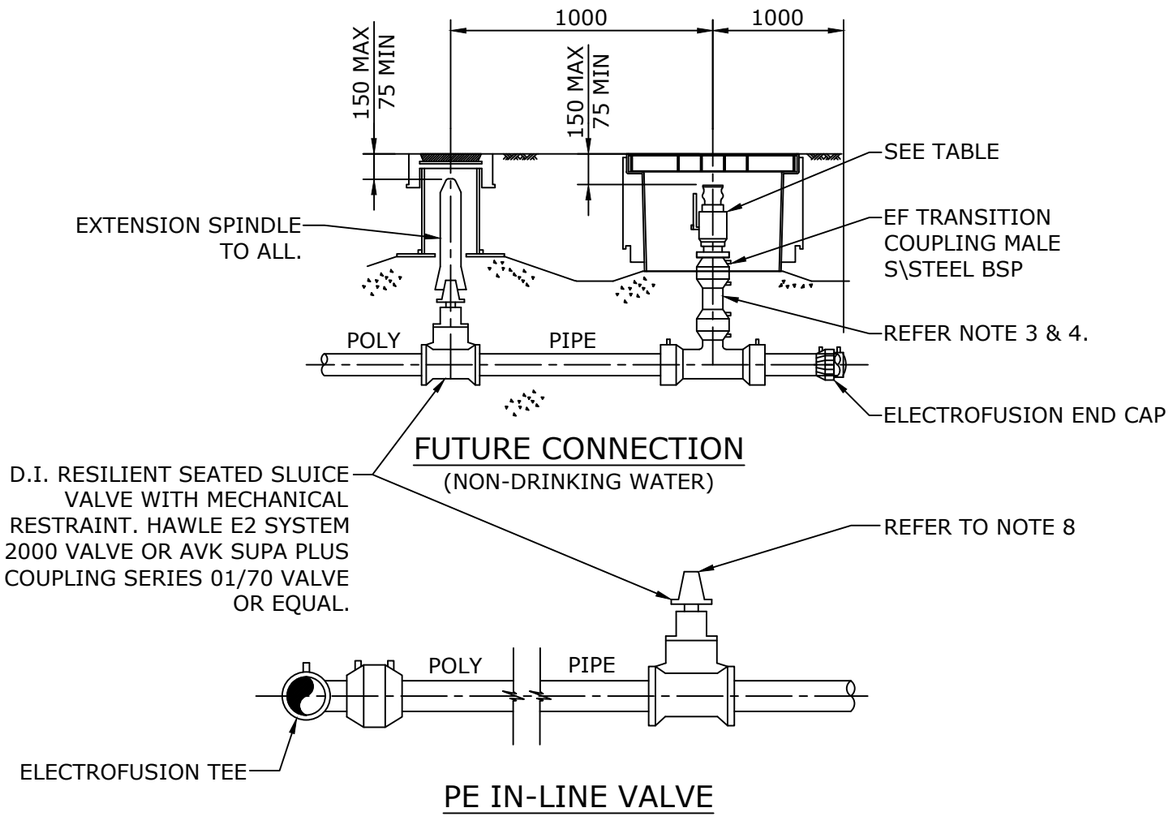
DETAIL B
IN-LINE FLUSHING POINT
(DUAL WATER SYSTEM NON-DRINKING WATER FLUSHING POINT)



DETAIL A
IN-LINE CONNECTION Ø110 & Ø63 PE
(DUAL WATER SYSTEM NON-DRINKING WATER FLUSHING POINT)



DETAIL C
FLUSHING POINT AT END OF LINE AND HEAD OF CUL-DE-SAC
(DUAL WATER SYSTEM NON-DRINKING WATER FLUSHING POINT)



FUTURE CONNECTION
(NON-DRINKING WATER)

PE IN-LINE VALVE

FLUSHING POINT FITTINGS			
	VALVE F-F	COUPLING-M	DUST CAP
NON DRINKING WATER ≤ DN63	50 mm S/STEEL BALL VALVE, HANDLE, NUT AND SPINDLE	POLY CAMLOCK 50 mm	YES
NON DRINKING WATER > DN63	80 mm S/STEEL BALL VALVE HANDLE, NUT AND SPINDLE	S/STEEL CAMLOCK 80 mm	YES

NOTES:

1. ELECTROFUSION FITTINGS ONLY EXCEPT DETAIL 'A' TRANSITION. MAY USE APPROVED MECHANICAL RESTRAINT COUPLINGS.
2. PE PIPES AND FITTINGS SHALL BE PE100, REFER SEQ-NDW-2312-1.
3. RISER PIPE SHALL BE STRAIGHT PIPE CUT TO REQUIRED LENGTH, NO COIL PIPE SHALL BE ACCEPTED.
4. DEEPER INSTALLATIONS WILL REQUIRE THE LENGTH OF THE RISER PIPE TO BE INCREASED AS APPROPRIATE.
5. GUIDELINES ON THE USE AND INSTALLATION OF PE SYSTEMS IS AVAILABLE FROM WSAA PE CODE.
6. NOMINATED SPECIFIC COMPONENTS LISTED TO ASSIST INSTALLERS, APPROVED ITEMS OF EQUAL PERFORMANCE ARE ACCEPTABLE.
7. ALIGN THE VALVE, WITHIN THE FOOTWAY/ VERGE, TO THE TANGENT OF THE PROPERTY BOUNDARY.
8. ALL RESILIENT SEATED SLUICE VALVES SHALL HAVE "ANTI-CLOCKWISE" SPINDLES FOR CLOSING.
9. ALL STAINLESS STEEL TO BE GRADE 316

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION, CoGC AND UU IN THE TITLE BLOCK	

SEQ WATER SERVICE PROVIDERS

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WATER SUPPLY STANDARD DRAWING

DUAL WATER SUPPLY SYSTEM
TYPICAL MAINS CONSTRUCTION
FLUSHING POINT ARRANGEMENT

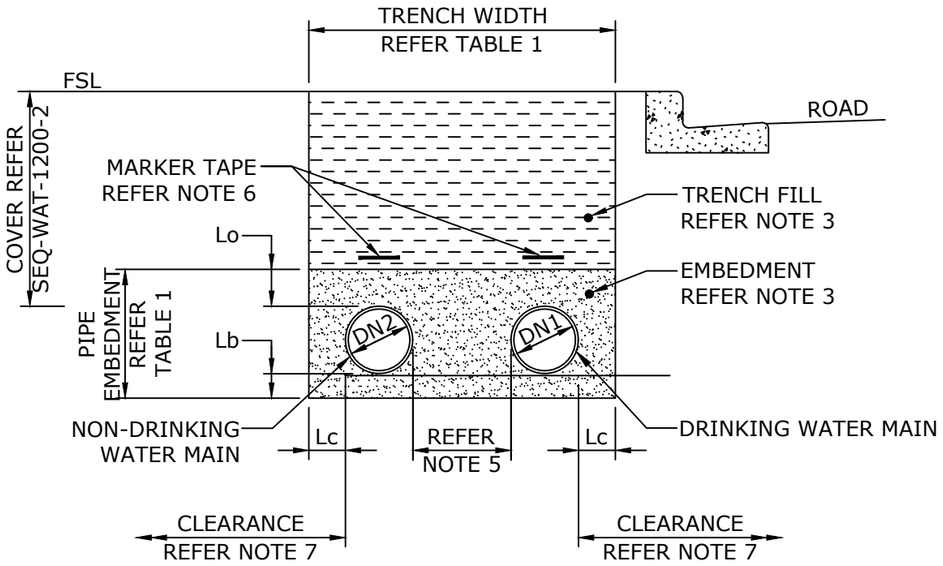
CoGC | LCC | RCC | UU | UW

DRAWING No. SEQ-NDW-2205-1

VERSION B

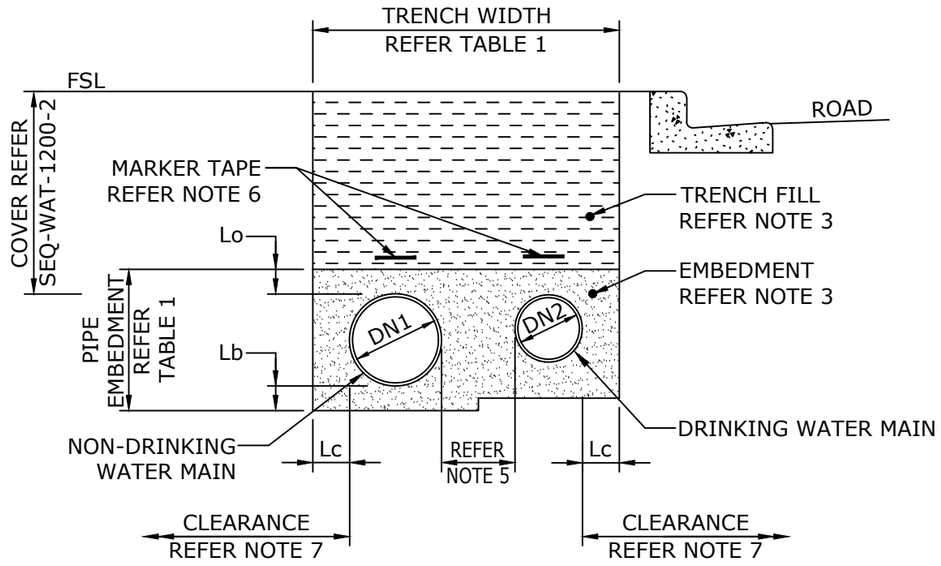
NOT TO SCALE

ORG DATE: 1/1/2013



TYPICAL TRENCH INSTALLATION

FOR SAME DIAMETER MAINS



TYPICAL TRENCH INSTALLATION

FOR DIFFERENT DIAMETER MAINS

DN	TRENCH AND EMBEDMENT DIMENSIONS			
	TRENCH WIDTH	BEDDING Lb	SIDE SUPPORT Lc	OVERLAY Lo
100	500+DN1+DN2	75	100	100
150				
200	600+DN1+DN2	100	150	150
250	750+DN1+DN2			
300				
375	850+DN1+DN2		200	

TABLE 1

NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH SEQ-WAT-1200-2.
2. SPECIAL BEDDING SHALL BE SPECIFIED TO SUIT THE CONDITIONS IF THE TRENCH FLOOR HAS:
   - IRREGULAR OUTCROPS OF ROCK
   - AHBP OF LESS THAN 50 kPa (REFER TO SEQ-WAT-1200-1).
   - UNCONTROLLED GROUND WATER HAS DISTURBED THE FLOOR OF THE TRENCH.
3. EMBEDMENT, TRENCH FILL AND COMPACTION SHALL MEET THE REQUIREMENTS OF THE SEQ CODE AND THE ROAD OWNER AND WATER AGENCY AS APPROPRIATE.
4. SIDES OF EXCAVATION SHALL BE KEPT VERTICAL TO AT LEAST 150 ABOVE CROWN OF PIPES.
5. WHERE BOTH DN1 AND DN2 ARE EQUAL OR LESS THAN DN200, MINIMUM CLEARANCE SHALL BE 300, EXCEPT WHERE ONE OR BOTH DN1 OR DN2 ARE GREATER THAN DN200 MAINTAIN 450 MINIMUM CLEARANCE.
6. MARKER TAPE TO BE LAID ABOVE PIPE EMBEDMENT AS SHOWN
7. MINIMUM CLEARANCES BETWEEN MAINS AND OTHER SERVICES SHALL BE IN ACCORDANCE WITH THE SEQ CODE.
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION, CoGC AND UU IN THE TITLE BLOCK	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

DUAL WATER SUPPLY SYSTEM
EMBEDMENT AND TRENCH FILL
MAIN ARRANGEMENT

~~CoGC~~ ~~LCC~~ ~~RCC~~ ~~UU~~ UW

DRAWING No. SEQ-NDW-2207-1

VERSION B

NOT TO SCALE

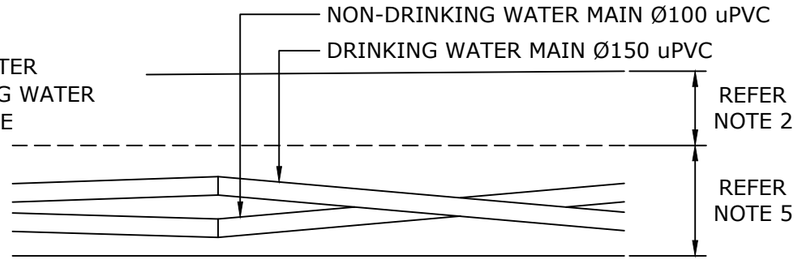
ORG DATE: 1/1/2013

THRUST BLOCK DIMENSIONS TABLE-DUAL WATER SYSTEM

PIPE DIA.	FITTING	MAX. THRUST IN kN.	THRUST BLOCK HEIGHT	SOFT CLAY 50KPa.	SAND & GRAVEL SANDY LOAM 100KPa.	SAND & GRAVEL HARD CLAY 150KPa.	SAND & GRAVEL CEMENTED WITH CLAY 200KPa.
2 x 150	90° BEND	66.2	700	SD	950	650	•
	60° BEND	46.8		1350	700	•	•
	45° BEND	35.8		1050	•	•	•
	22.5° BEND	18.2		•	•	•	•
	11.25° BEND	9.2		•	•	•	•
	TEE OR CLOSED END	46.8		1350	700	•	•
2 x 200	90° BEND	117.6	800	SD	1500	1000	750
	60° BEND	83.2		SD	1050	700	•
	45° BEND	63.6		1600	800	•	•
	22.5° BEND	32.4		850	•	•	•
	11.25° BEND	16.4		•	•	•	•
	TEE OR CLOSED END	83.2		SD	1050	700	•
LARGER	BY DESIGN			BY DESIGN			
•	INDICATES BLOCK LENGTH OF 600 WITH 150 MIN. TOP & BTM. CONCRETE COVER.			L = THRUST BLOCK LENGTH			
SD	INDICATES SPECIAL DESIGN.						

LEGEND:

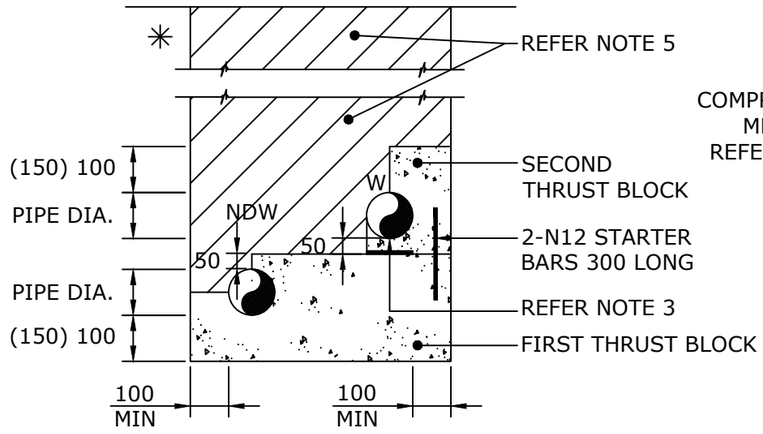
W - DRINKING WATER
NDW - NON-DRINKING WATER
✳ - PROPERTY SIDE



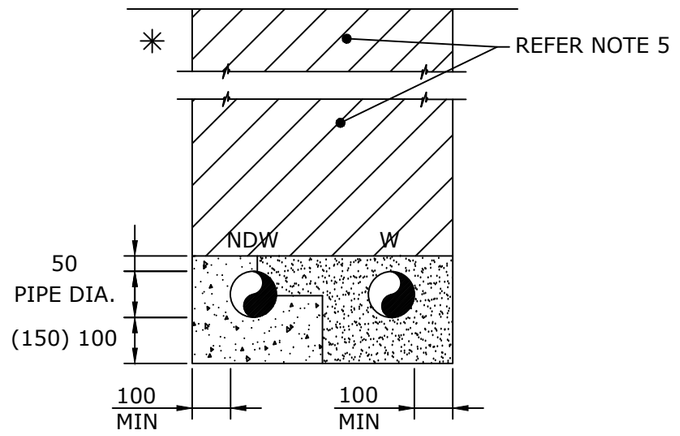
SECTIONAL ELEVATION

NOTES:

1. MAIN ON OUTSIDE OF BEND IS THE HIGHER MAIN.
2. MINIMUM PIPE COVER SHALL BE MAINTAINED.
3. COMPRESSIBLE MEMBRANE UNDER PIPES AND FITTINGS SHALL BE 10 mm THICK POLYSTYRENE.
4. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
5. REFER SEQ-WAT-1200 SERIES FOR TRENCH AND BEDDING DETAILS.



SECTION A



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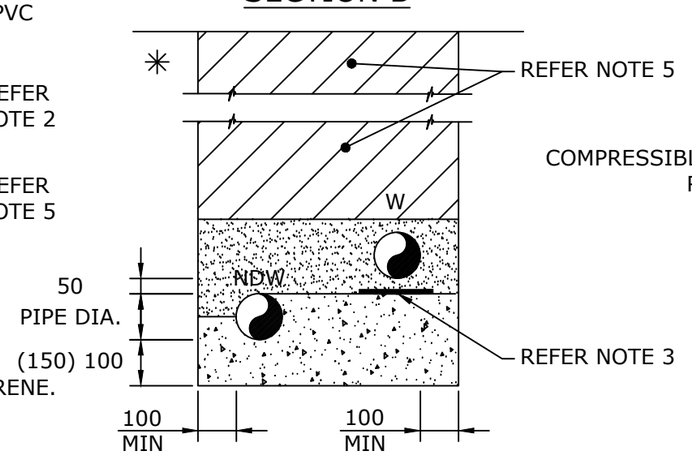
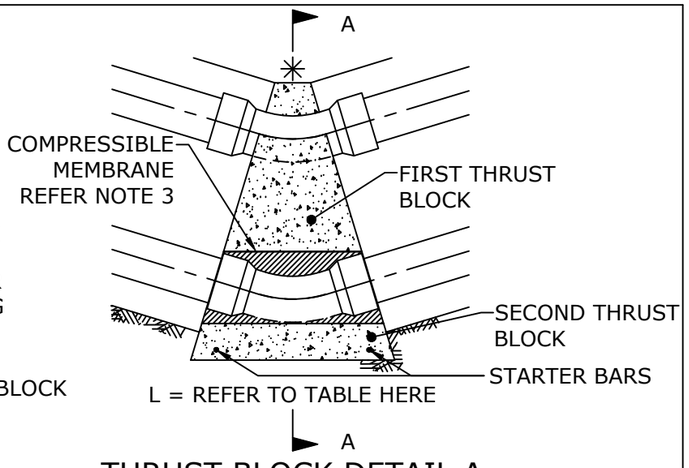
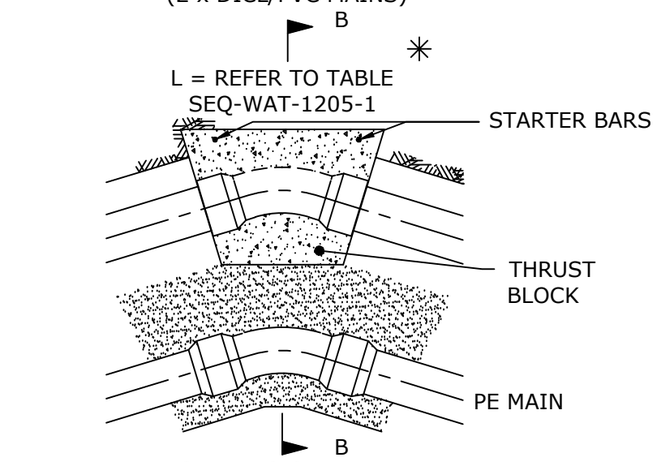


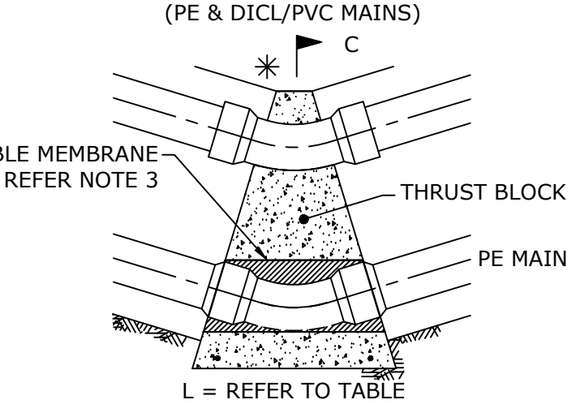
SECTION C



THRUST BLOCK DETAIL A
(2 x DICL/PVC MAINS)



THRUST BLOCK DETAIL B
(PE & DICL/PVC MAINS)



THRUST BLOCK DETAIL C
(PE & DICL/PVC MAINS)

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WATER SUPPLY STANDARD DRAWING

DUAL WATER SUPPLY SYSTEM
THRUST RESTRAINT
TYPICAL COMMON TRENCH

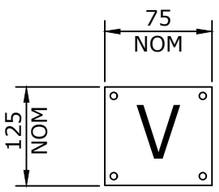
~~CoGC~~ ~~LGC~~ ~~RGC~~ ~~UU~~ UW

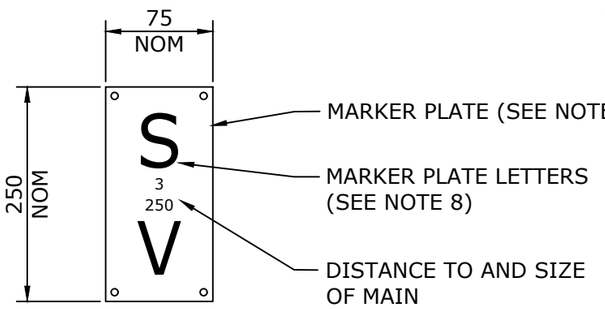
DRAWING No.
SEQ-NDW-2208-1

VERSION
B

NOT TO SCALE

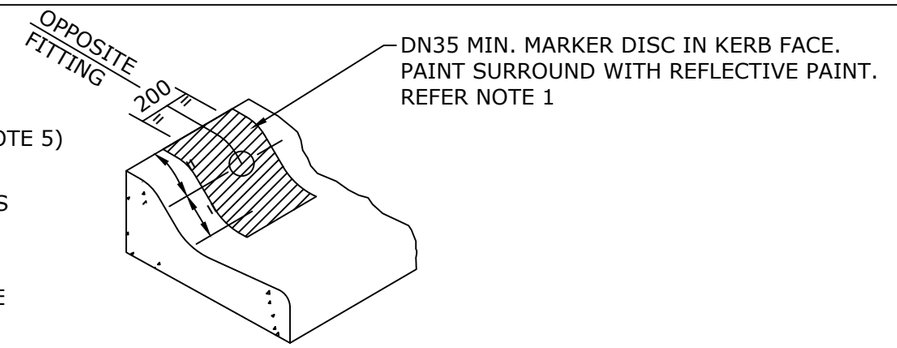
ORG DATE:
1/1/2013



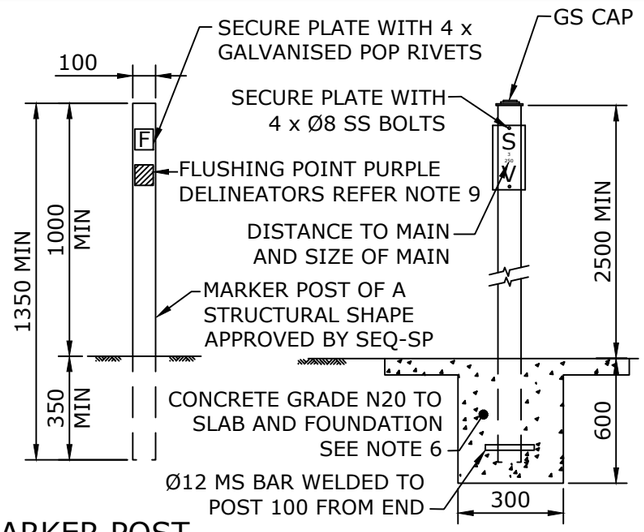


TYPICAL PLATE ARRANGEMENT

FIXED TO POST



KERB MARKING



MARKER POST

REMOTE AREA POST

GALVANISED 50NB MILD STEEL TUBE C350LO
(60.3 OD x2.3 WALL THICKNESS)

MARKER PLATE AND KERB MARKING CODES

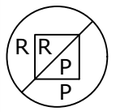
POST	KERB	FACILITY	POST	KERB	FACILITY
H	H	HYDRANT	V	V	VALVE
F	F	FLUSHING POINT	S C	SC	SWABBING CHAMBER
A V	AV	AIR VALVE	H L	HL	HIGH LEVEL MAIN
S V	SV	SCOUR VALVE	M L	ML	MID LEVEL MAIN
S H	SH	SWABBING HYDRANT	L L	LL	LOW LEVEL MAIN
V B	VB	VALVE BOX			

COLOUR CODES

NON-DRINKING WATER-NDW

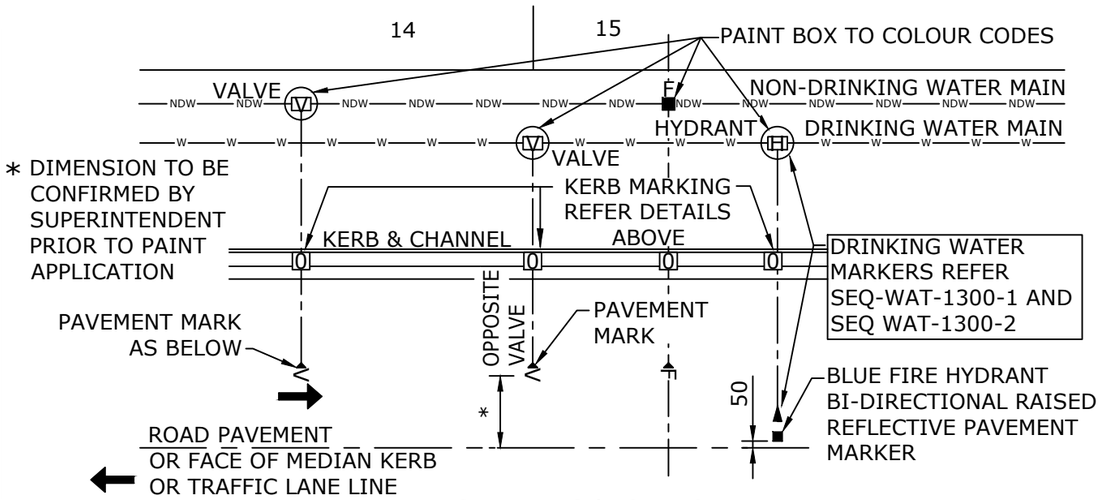
PURPLE - VALVES, SCOUR VALVES, AIR VALVES, HYDRANTS , FLUSHING POINTS.

RED/PURPLE - ZONE VALVES, BOUNDARY VALVES



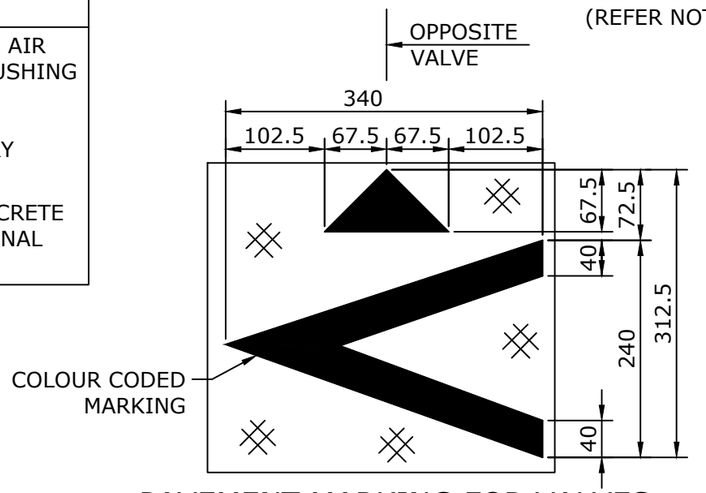
SHOW CIRCLE LIKE CONCRETE SURROUND WITH DIAGONAL RED/PURPLE

PAINTED WHITE BACKGROUND FOR ALL NDW PAVEMENT MARKS. SQUARE FORMAT SHOWN, RECTANGULAR ACCEPTABLE



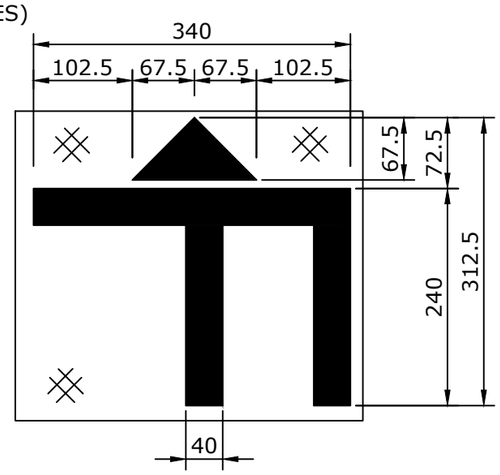
KERBED STREETS/ROADS
TYPICAL PAVEMENT MARKING PLAN FOR VALVES/FLUSHING POINTS

(REFER NOTES)



PAVEMENT MARKING FOR VALVES

(REFER NOTE 1 AND 2)



PAVEMENT MARKING FOR FLUSHING POINTS

NOTES

1. PAVEMENT MARKING PAINT SHALL BE OF AN APPROVED REFLECTIVE PAINT, INCORPORATING APPLIED GLASS BEADS, MANUFACTURED TO THE REQUIREMENTS OF MAIN ROADS. THE PAINT COLOUR SHALL BE AS DETAILED.
2. PAVEMENT MARKINGS SHALL BE LOCATED CLEAR OF THE PARKING LANE SO THAT TYRE WEAR IS MINIMISED. THE EXACT LOCATION SHALL BE DETERMINED BY THE SUPERINTENDENT FOLLOWING SITE INSPECTIONS.
3. FOR COUNCIL CONTROLLED ROADS, RAISED BLUE FIRE HYDRANT MARKERS SHALL BE IN ACCORDANCE WITH AS1906.3. THE BLUE REFLECTOR SHALL FACE THE DIRECTION OF APPROACHING TRAFFIC.
4. FOR STATE CONTROLLED ROADS, RAISED BLUE FIRE HYDRANT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
5. ALL KERB AND PAVEMENT MARKINGS SHALL BE COLOUR CODED AS SHOWN.
6. MARKER POSTS SHALL ONLY BE USED IN NON RESIDENTIAL STREETS AND ROADS WHERE THERE IS NO KERB & CHANNEL AND SHALL BE POSITIONED AT THE FRONT OF PROPERTY BOUNDARY OPPOSITE THE FITTING. REMOTE AREA POSTS USED WHERE NO STREET EXISTS. PROVIDE 1200 x 1200 x 100 THICK CONCRETE SLAB AROUND FACILITY BOX.
7. MARKER POSTS ARE REQUIRED WHERE DIFFERENT PRESSURE ZONE WATER RETICULATION IS CONSTRUCTED AND MARKED, DESIGNATING THE DIFFERENT PRESSURE ZONE.
8. THE NOTICE PLATE SHALL BE REFLECTORIZED ALUMINIUM WITH BLACK LETTERING ON A WHITE BACKGROUND NOMINALLY 80 x 80.
9. FOR COUNCIL CONTROLLED ROADS, IN ADDITION TO THE NOTICE PLATE MARKER, A BLUE DELINEATOR MARKER COMPLYING WITH MAIN ROADS SPECIFICATION ES126 SHALL BE INSTALLED AS DETAILED. FOR STATE CONTROLLED ROADS, DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION, CoGC AND UU IN THE TITLE BLOCK	

SEQ WATER SERVICE PROVIDERS

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WATER SUPPLY STANDARD DRAWING

DUAL WATER SUPPLY SYSTEM
VALVE & FLUSHING POINT IDENTIFICATION
MARKERS & MARKER POSTS

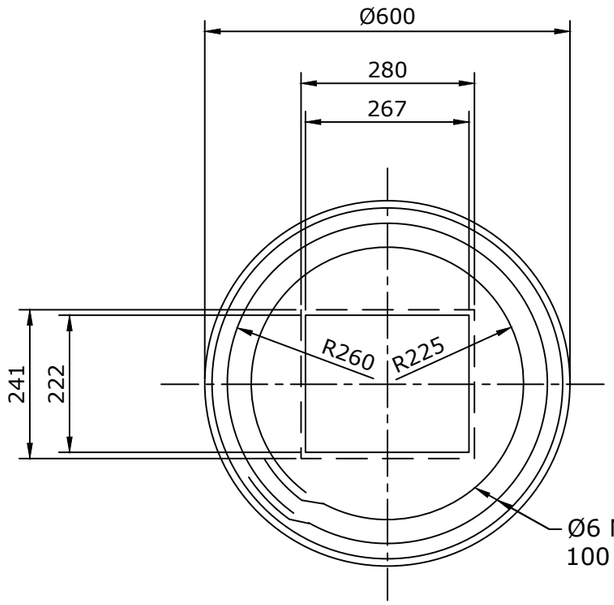
CoGC | LCC | RCC | UU | UW

DRAWING No. SEQ-NDW-2209-1

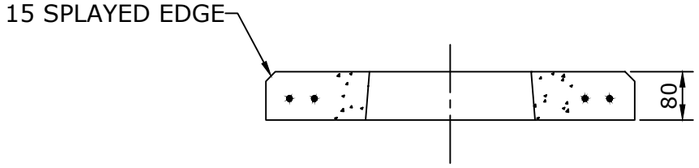
VERSION B

NOT TO SCALE

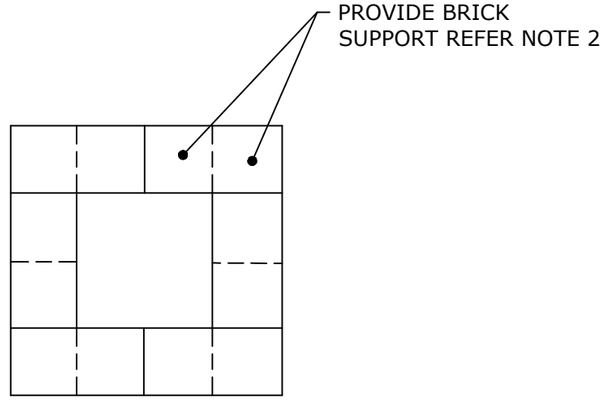
ORG DATE: 1/1/2013



PLAN



SECTION



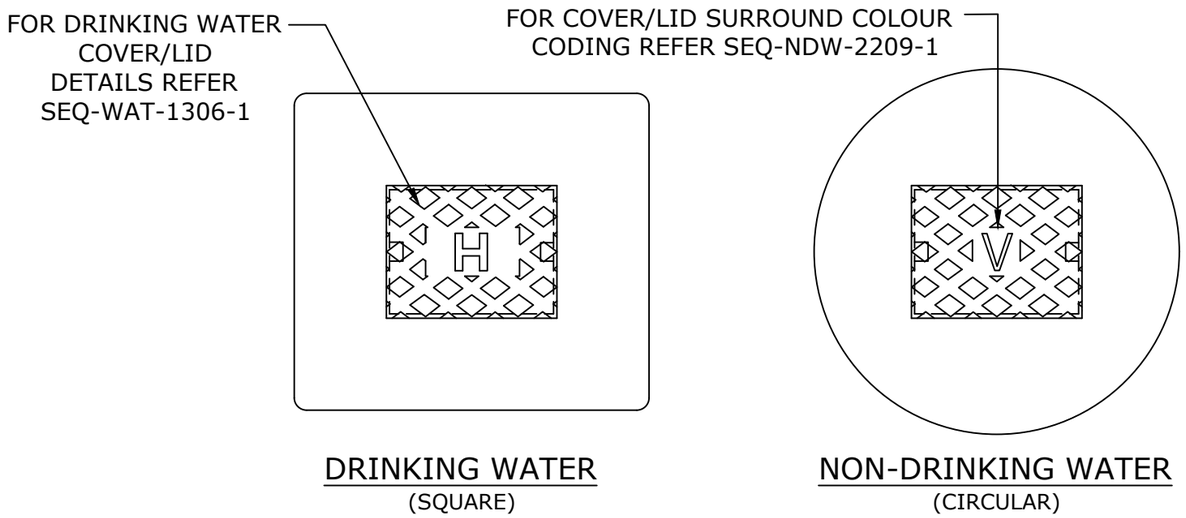
BRICK SUPPORT LAYOUT

PRECAST CONCRETE SURROUND AND SUPPORT DETAILS

(NON-DRINKING WATER SHAPE SHOWN)

NOTES:

1. BOTH PRECAST CONCRETE SURROUND AND BRICK SUPPORT DETAILS SHOWN ARE ACCEPTABLE.
2. BRICK SUPPORTS SHALL BE A MINIMUM TWO COURSES AND LAID DRY OVER THE BEDDING MATERIAL. APPLY BUILDING SEALANT OR SIMILAR TO BOND BRICKS TOGETHER AND TO THE VALVE BOX.
3. FOR FLUSHING POINTS THE CONCRETE SURROUND AND LID SHALL BE PAINTED WITH APPROVED PURPLE REFLECTIVE PAINT FOR NON-DRINKING WATER.
4. FOR VALVES AND OTHER FITTINGS THE CONCRETE SURROUND AND LID SHALL BE PAINTED WITH APPROVED REFLECTIVE PAINT IN ACCORDANCE WITH THE COLOUR CODE SHOWN ON SEQ-NDW-2209-1.
5. CONCRETE TO BE GRADE N25.
6. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



DRINKING WATER
(SQUARE)

NON-DRINKING WATER
(CIRCULAR)

SURFACE FITTING ARRANGEMENT

REV. No.	DATE	DESCRIPTION	AUTH.
B	01/02/24	NOT FOR CONSTRUCTION, CoGC AND UU IN THE TITLE BLOCK	

SEQ WATER SERVICE PROVIDERS

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NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

DUAL WATER SUPPLY SYSTEM
VALVE & HYDRANT SURFACE BOXES
SUPPORT & SURROUND DETAILS

CoGC | LGC | RGC | UU | UW

DRAWING No. SEQ-NDW-2211-1

VERSION B

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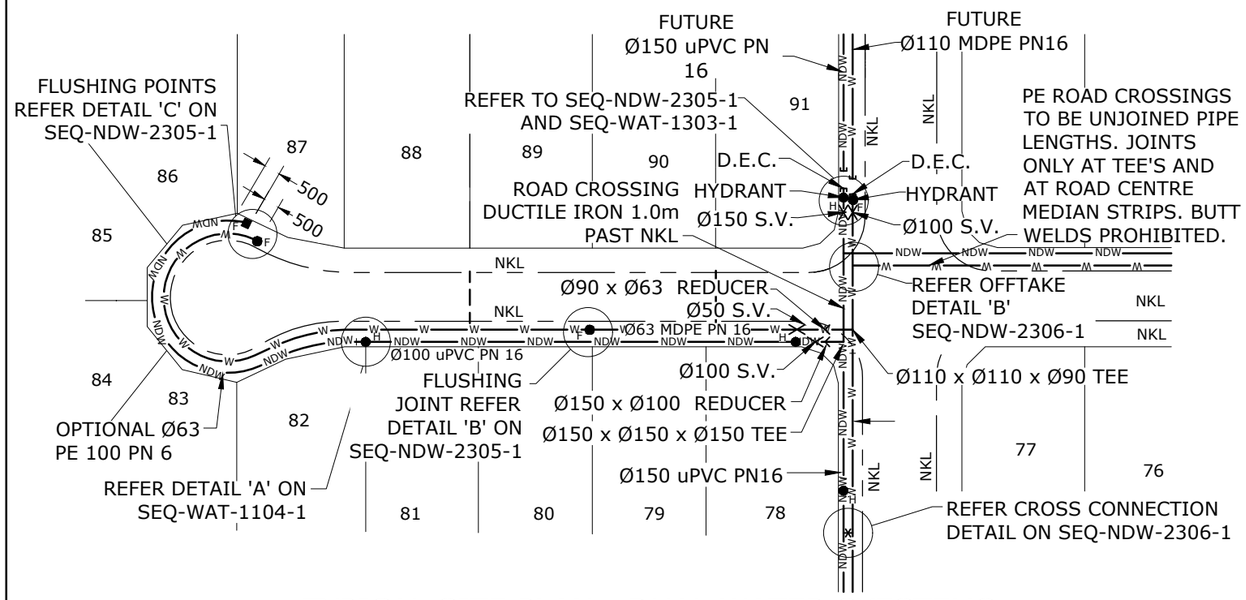
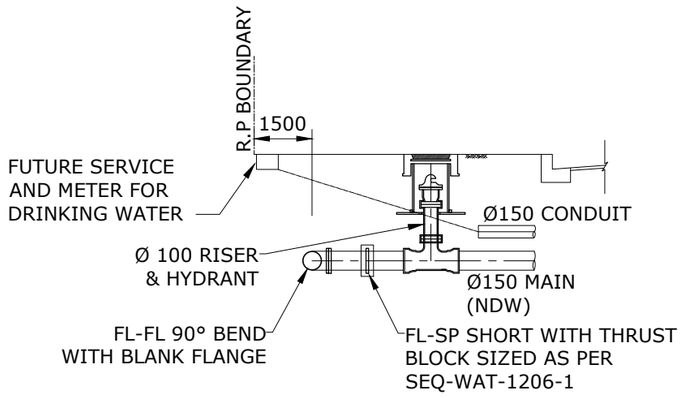
ORG DATE: 1/1/2013

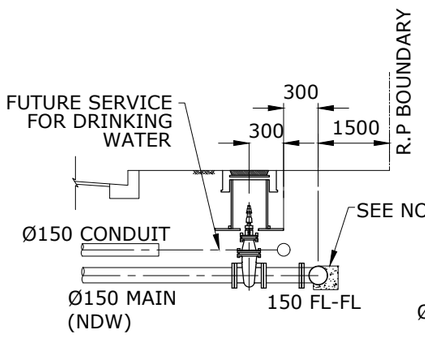


TYPICAL SITE PLAN - DUAL WATER SYESTEMS

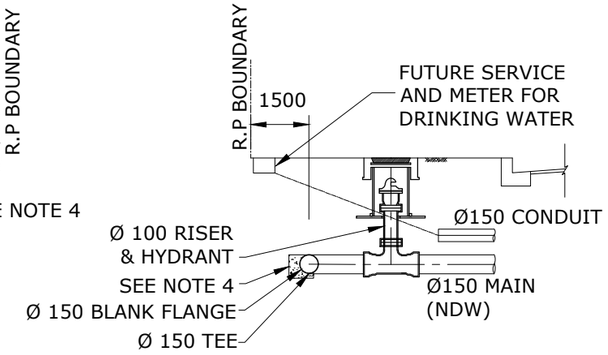
NON-DRINKING WATER MAIN CLOSEST TO PROPERTY



DETAIL C



DETAIL A



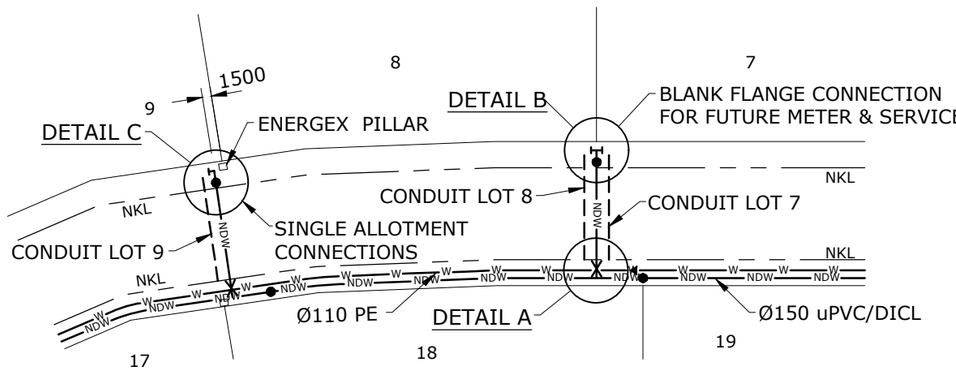
DETAIL B

NOTES: GENERAL

1. FOR TYPICAL FOOTPATH VERGE ALLOCATIONS FOR PUBLIC UTILITIES REFER TO THE LOCAL COUNCIL'S SERVICE ALLOCATION.
2. MAXIMUM DISTANCE BETWEEN DRINKING WATER(DW) SYSTEM FLUSHING POINTS SHALL BE 160 m.
3. MAXIMUM DISTANCE BETWEEN NON-DRINKING WATER(NDW) SYSTEM HYDRANTS SHALL BE 80 m.
4. NON-DRINKING WATER SYSTEM HYDRANTS MAY BE PROVIDED 40m FROM THE CUL-DE-SAC END. WHERE PROVIDED, A FLUSHING FACILITY SHALL BE PROVIDED AT THE POLY MAIN END.
5. DRINKING WATER FLUSHING POINTS SHALL BE PROVIDED AT THE PERMANENT ENDS OF ALL DRINKING WATER MAINS.
6. DRINKING WATER SYSTEM STOP VALVES SHALL GENERALLY BE PROVIDED AT ALL BRANCHES, TEES AND CROSSES. SECTION VALVES SHALL BE GENERAL SPACED AT MULTIPLES OF 50 PROPERTY BLOCKS.
7. NON-DRINKING WATER SYSTEM STOP VALVES SHALL GENERALLY BE SPACED AT MAXIMUM MULTIPLES OF 50 PROPERTY BLOCKS AND AT A MINIMUM OF ONE PER ROAD AT THE BRANCH OFFTAKE.
8. SYSTEM SECTION VALVES SHALL BE SPACED AT MULTIPLES OF 100 PROPERTY BLOCKS.
9. PRIOR TO COMMENCING WORK ON SITE THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL EXISTING UTILITIES.
10. THE CONTRACTOR SHALL ENSURE THAT THE WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT ENVIRONMENTAL PROTECTION ACT.
11. FOR WATER SERVICE TYPICAL INSTALLATION DETAILS REFER TO SEQ-NDW-2303-1 & SEQ-NDW-2304-1.
12. REFER SEQ-GEN-1100-1 FOR LEGEND.
13. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

NOTES: INDUSTRIAL / COMMERCIAL

1. ALL CONDUITS SHALL BE Ø150, REFER TO DETAILS ON SEQ-WAT-1106-1. PROVIDE ONE CONDUIT PER LOT ACROSS ROAD.
2. NON-DRINKING WATER MAIN TO BE Ø150 MINIMUM. DRINKING WATER MAIN TO BE Ø110 MINIMUM.
3. DETAILS SHOWN FOR DUAL WATER SYSTEM. FOR TRADITIONAL DRINKING WATER SYSTEMS, PROVIDE Ø150 TEE, SV, ROAD CROSSING, HYDRANT, TEE AND BLANK FLANGES - Ø150 CONDUITS NOT REQUIRED AND FOR DETAIL C, PROVIDE FL-SP SHORT WITH THRUST FL AND BLOCK WITH FL-FL 90° BEND AND BLANK FL - Ø150 CONDUITS NOT REQUIRED.
4. PROVIDE THRUST BLOCK, REFER DETAILS FOR TEES ON SEQ-WAT-1205-1.
5. DETAILS SHOWN FOR GREENFIELD DEVELOPMENTS. FOR BROWNFIELD DEVELOPMENTS, LOCATE SINGLE ALLOTMENT CONNECTION EITHER AS SHOWN OR WHERE REQUIRED.



TYPICAL SITE PLAN - INDUSTRIAL/COMMERCIAL

DUAL WATER SYSTEM SHOWN - SEE NOTES

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SEQ WATER SERVICE PROVIDERS

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NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

DESIGN LAYOUTS
TYPICAL SITE PLAN
DUAL WATER SYSTEMS

CoGC | ~~LCC~~ | ~~RCC~~ | ~~UU~~ | ~~UW~~

DRAWING No. SEQ-NDW-2300-1

VERSION B

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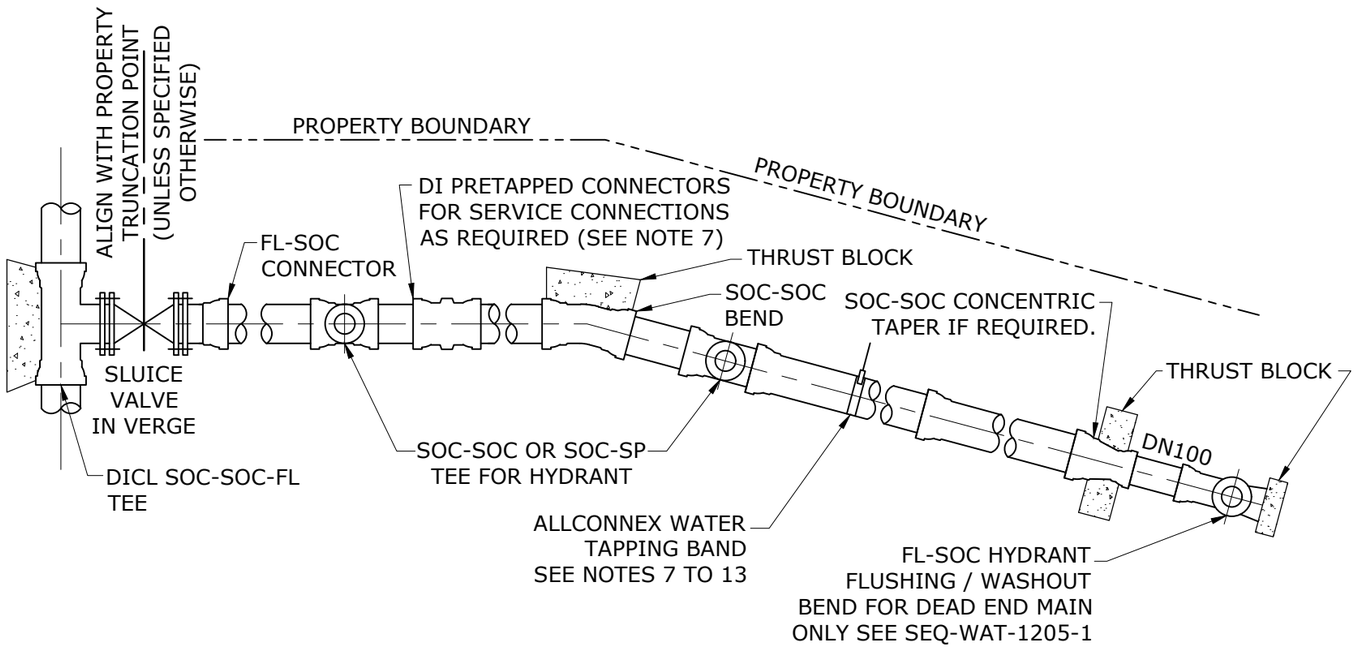
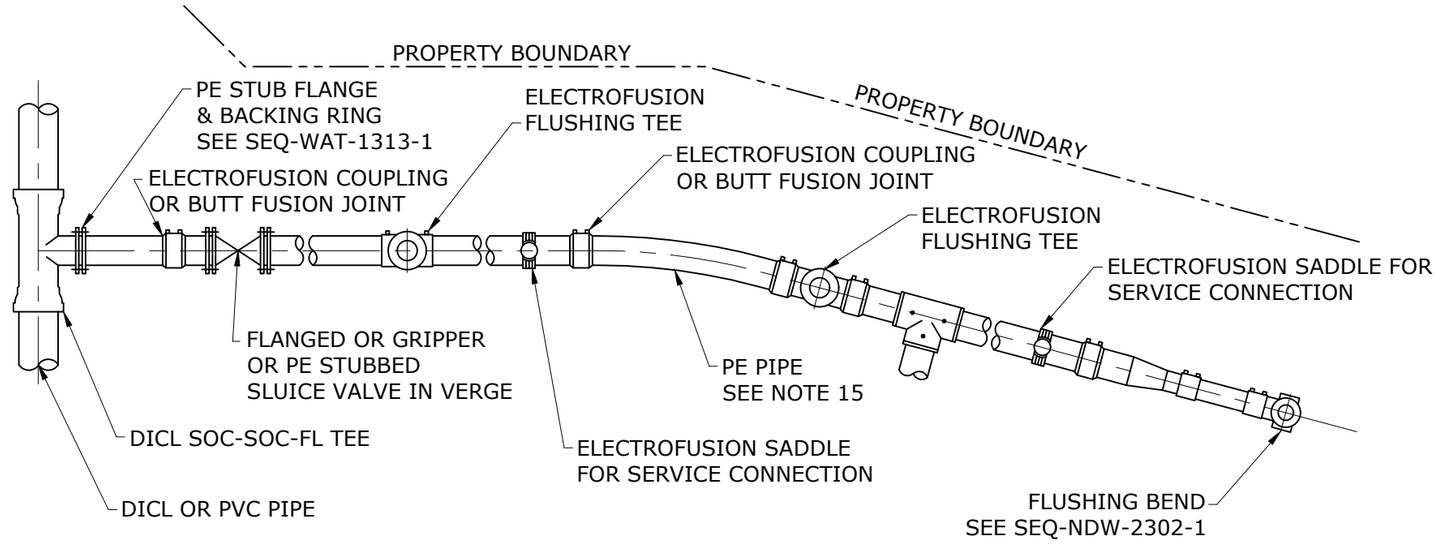


TYPICAL NON-DRINKING WATER INSTALLATION OF PVC & DI PIPES & FITTINGS

(USE FOR DN150 AND LARGER DRINKING WATER MAINS WITH FLUSHING FACILITIES)



TYPICAL DRINKING WATER INSTALLATION OF PE PIPES & FITTINGS

(USE FOR DN63 AND DN110 DRINKING WATER MAINS)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. INSTALL PIPEWORK PARALLEL TO PROPERTY BOUNDARIES.
3. MAIN, SERVICE AND METER SHALL BE INSTALLED BY THE DEVELOPER.
4. WRAP FLANGES AND BOLTS, WITH A PETROLATUM TAPE SYSTEM IN ACCORDANCE WITH SEQ-WAT-1313-1.

DI & PVC PIPE

5. DUCTILE IRON FITTINGS MAY BE USED WITH DI & PVC PIPE. FITTINGS SHALL BE FBE COATED AND LINED. CEMENT LINED FITTINGS WITH A BITUMINOUS EXTERNAL COATING MAY BE USED WITH APPROVAL. DO NOT USE PVC FITTINGS.
6. PE SLEEVING, COLOURED FOR THE PRODUCT IS REQUIRED ON ALL DI PIPE AND FITTINGS APPLIED IN ACCORDANCE WITH AS 3681. TWO THICKNESSES REQUIRED BETWEEN FITTINGS AND THRUST BLOCK. REINSTATE ANY DAMAGED SLEEVING AS PER MANUFACTURER'S SPECIFICATIONS.
7. USE PRE-TAPPED CONNECTORS ON DN100 TO DN300 NEW MAIN INSTALLATIONS.
8. USE TAPPING BANDS FOR CONNECTIONS TO EXISTING MAINS.
9. FOR ALL RENEWALS, ELECTRICALLY ISOLATE COPPER SERVICES FROM DICL PIPE.

PVC PIPE

10 USE PRE-TAPPED CONNECTORS,REFER NOTE 7.
11. PVC PIPE SHALL NOT BE IN CONTACT WITH THRUST BLOCK CONCRETE.
12. MAXIMUM SIZE OF DRILLED HOLES FOR SERVICE CONNECTIONS IN PVC PIPE TO BE 30% OF DN OR 50 (LOWER VALUE TO BE USED).

DI PIPE

13. DIRECT TAPPING OF DICL PIPE IS PROHIBITED.
14. DI SPIGOTS SHALL NOT BE FITTED INTO PVC SOCKETS.

PE PIPE

15. PE PIPE MAY BE COLD BENT TO MAXIMUM RADIUS AS PER POP202. STAKES OR OTHER SOURCES OF POINT LOADS SHALL NOT BE USED TO ASSIST IN BENDING THE PIPE.
16. MAKE ALLOWANCE DURING CONSTRUCTION FOR EXPANSION AND CONTRACTION OF PE PIPE DUE TO TEMPERATURE CHANGES.
17. ELECTROFUSION AND BUTT WELDING TO BE IN ACCORDANCE WITH WSA-01 (POLYETHYLENE CODE), BUTT WELDING IN TRENCHES IS NOT PERMITTED.
18. ALL MECHANICAL COUPLINGS TO BE SELF-RESTRAINING.
19. REFER SEQ-NDW-2312-1 FOR TYPICAL PE ARRANGEMENTS.

VALVES

20. ALL VALVES TO BE RESTRAINED, REFER SEQ-WAT-1206-1.

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SEQ WATER SERVICE PROVIDERS

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NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

TYPICAL MAINS CONSTRUCTION
DUAL WATER SYSTEMS

CoGC ~~LGC~~ ~~RGC~~ ~~UU~~ ~~UW~~

DRAWING No. SEQ-NDW-2301-1

VERSION B

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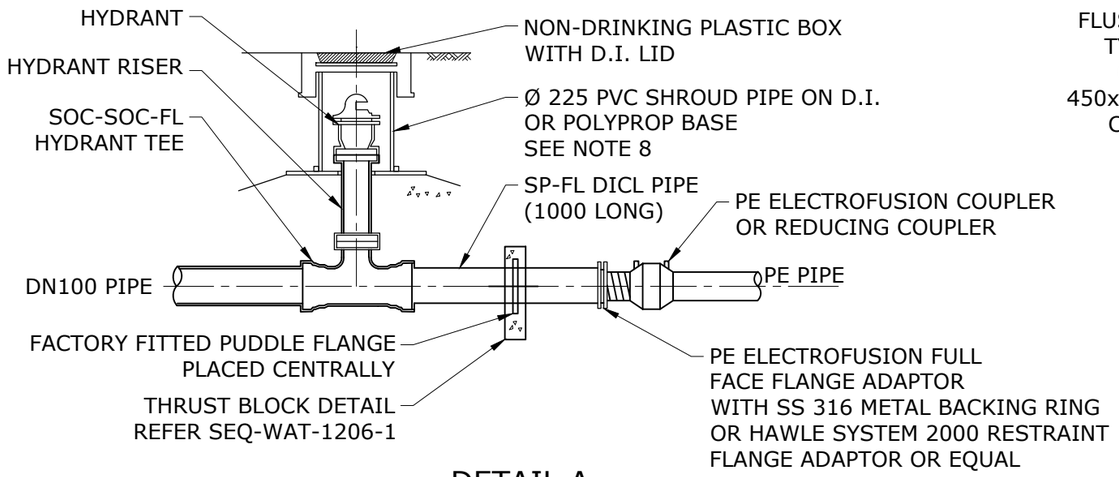
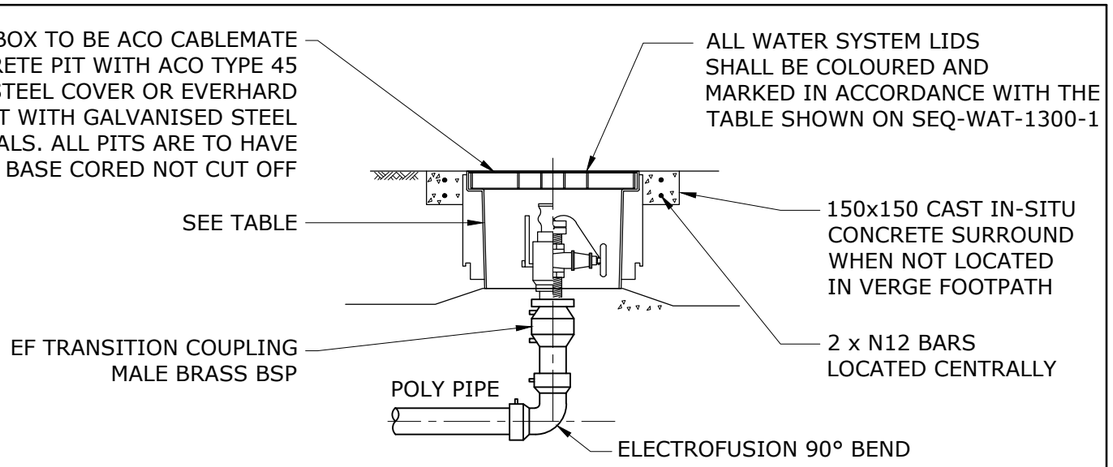
ORG DATE: 1/1/2013

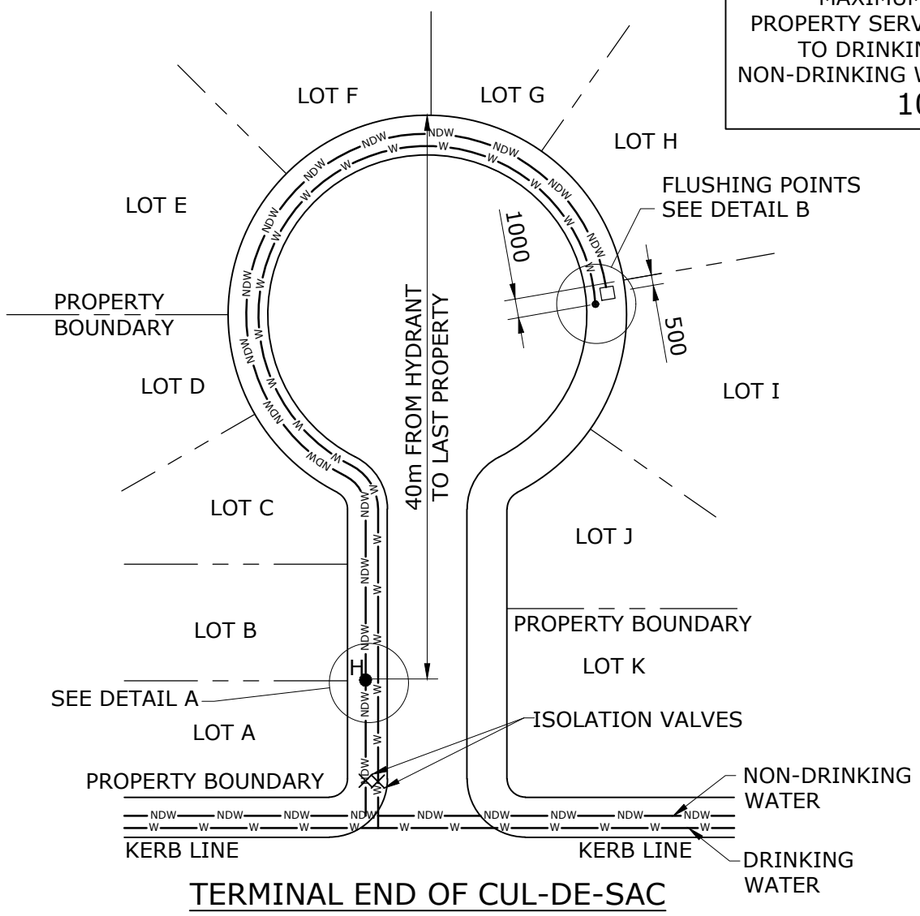


DETAIL A
IN-LINE CONNECTION
(NON-DRINKING WATER)



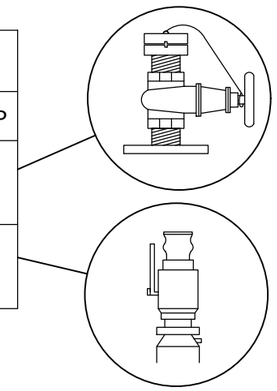
DETAIL B
FLUSHING POINT AT HEAD OF CUL-DE-SAC
(DRINKING AND NON-DRINKING WATER SYSTEMS)

MAXIMUM NUMBER OF
PROPERTY SERVICE CONNECTIONS
TO DRINKING WATER AND
NON-DRINKING WATER DN 63 MAINS
10 ET



TERMINAL END OF CUL-DE-SAC

FLUSHING POINT FITTINGS TABLE			
	VALVE F-F	COUPLING-M	DUST CAP
DRINKING WATER	1-1/2" BRASS GATE VALVE WITH BRASS HAND WHEEL	38 mm BRASS STORZ X 1-1/2" BSP	YES
NON-DRINKING WATER	1-1/2" BRASS BALL VALVE SS316 HANDLE, NUT AND SPINDLE	POLY CAMLOCK1 1/2" CAMLOCK	YES



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. PIPE MATERIAL TO BE IN ACCORDANCE WITH CODE.
3. PE ELECTROFUSION (EF) FITTINGS TO BE CLASS PN16.
4. WHERE POSSIBLE USE A SINGLE LENGTH OF PE PIPE.
5. DO NOT CURVE PE PIPES TO A RADIUS OF LESS THAN THAT NOMINATED IN POP202.
6. BACKING FLANGES, NUTS, BOLTS AND WASHERS TO BE MANUFACTURED FROM GRADE 316 STAINLESS STEEL.
7. THRUST BLOCKS TO BE IN ACCORDANCE WITH SEQ-WAT-1205-1 AND SEQ-WAT-1206-1.
8. PVC PIPE MAY BE USED AS SHROUD PIPE, CUT AS REQUIRED TO CLEAR HYDRANT LOWER FLANGE.
9. FOR HYDRANT COVERS AND SURROUNDS DETAILS SEE SEQ-WAT-1301-1 TO 1302-1.
10. FIT THE FLUSHING POINT VALVE IN SUCH A WAY AS TO PREVENT MOVEMENT OR ROTATION OF THE VALVE BODY. PROVIDE A SUITABLE DUST CAP TO KEEP OUT DIRT AND GRAVEL. DRILL DUST CAP WITH 4 DIA DRILL.
11. FOR CONNECTION TO EXISTING MAINS SEE SEQ-WAT-1105-2.
12. TYPICAL HYDRANT PIPEWORK ASSEMBLIES ARE DETAILED IN SEQ-WAT-1302-1.

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SEQ WATER SERVICE PROVIDERS

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NOT FOR CONSTRUCTION

WATER SUPPLY STANDARD DRAWING

TYPICAL MAINS CONSTRUCTION
CUL-DE-SAC ARRANGEMENT
DUAL WATER SYSTEMS

CoGC ~~LCC~~ ~~RCC~~ ~~UU~~ ~~UW~~

DRAWING No. SEQ-NDW-2302-1

VERSION B

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ORG DATE: 1/1/2013

• NON-DRINKING WATER SERVICE PIPE (BRASS OR S.S)

• SERVICE CONDUIT (BRASS)

• DRINKING WATER SERVICE PIPE (STAINLESS STEEL)

WATER SERVICE PIPE AND CONDUIT MARKER

(SERVICE PIPE MARKER ONLY ON KERB OF VERGE WITH METERS)

✳ PIPE DRILLING/TAPPING SPACING DETAIL

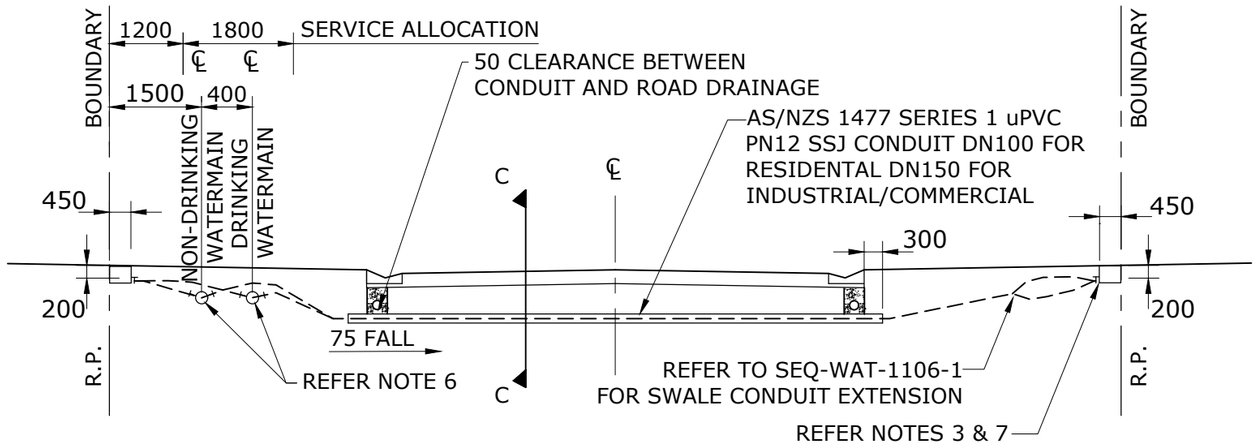
PE = 500 MIN

PVC = 600 MI FOR Ø100, 900 MIN FOR Ø150

DI = 600 MIN

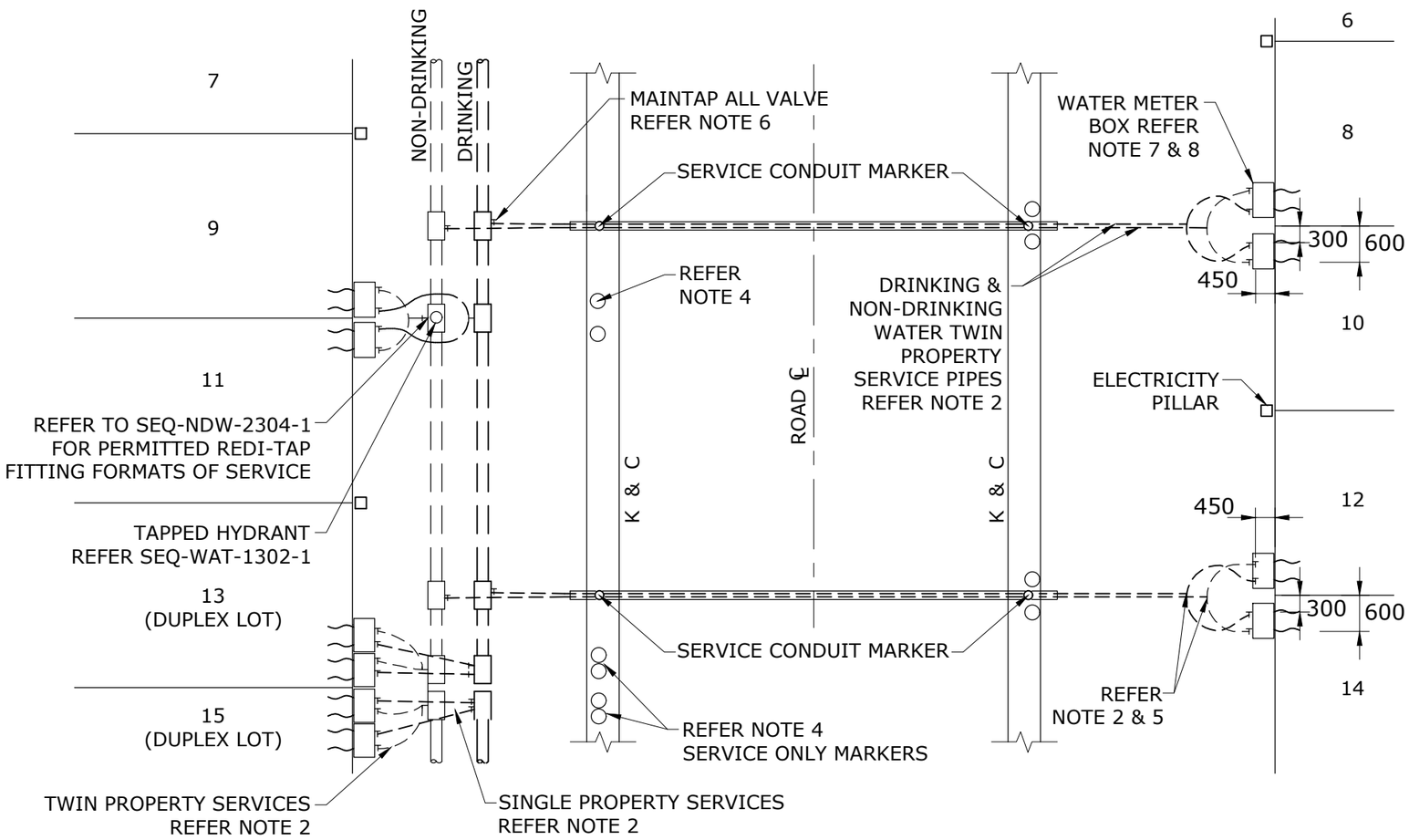
NOTES:

1. PROPERTY SERVICE PIPE SHALL BE POLYETHYLENE PIPE TO AS/NZS 4130 SERIES 1 PN16/SDR9 PE80B COLOURED BLACK WITH BLUE STRIPES FOR DRINKING WATER AND SOLID OR JACKETED LILAC/PURPLE FOR NON-DRINKING WATER.
2. SINGLE PROPERTY SERVICE PIPE UP TO 20 m IN LENGTH IS DN25. SINGLE PROPERTY SERVICE PIPE OVER 20 m IN LENGTH IS DN32. TWIN PROPERTY SERVICE PIPE UP TO 20 m IN LENGTH SHALL BE DN32 WHERE THE MAIN TAP BALL VALVE IS DN20 AND THE INDIVIDUAL PROPERTY SERVICE PIPE AFTER THE SPLITTER TEE IS DN25, REFER DETAIL SEQ-NDW-2304-1.
3. METER BOX INSTALLATION REFER TO SEQ-NDW-2304-1. METER INSTALLATION APPLICATION TO BE PROVIDED TO COUNCIL BY THE CONTRACTOR.
4. PROPERTY SERVICE PIPE STAMPED IDENTIFICATION TAG (35 MIN DIA) SHALL BE STAINLESS STEEL RETAINED BY A STAINLESS STEEL PIN.
5. PROPERTY SERVICE PIPE, BALL VALVES, DUCTILE IRON PRE-TAPPED PROPERTY SERVICE FITTING AND ASSOCIATED FITTINGS SHALL BE JOINTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
6. THE MAIN TAP BALL VALVE SHALL BE LEFT IN THE FULLY OPEN POSITION.
7. THE WATER METER BALL VALVE WITHIN BOX SHALL BE LEFT IN THE FULLY CLOSED POSITION.
8. THE PROPERTY SERVICE PIPE SHALL BE PERPENDICULAR TO THE FRONT RP BOUNDARY FOR THE LAST 300 OF THE PIPE.
9. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



TYPICAL SECTION

(SERVICE ALLOCATION 1800 WHERE DUAL RETICULATION)



PLAN

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SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

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WATER SUPPLY STANDARD DRAWING

TYPICAL PROPERTY SERVICES
DUAL WATER SYSTEMS
MAIN TO METER

CoGC | LCC | RCC | UU | UW

DRAWING No. SEQ-NDW-2303-1

VERSION B

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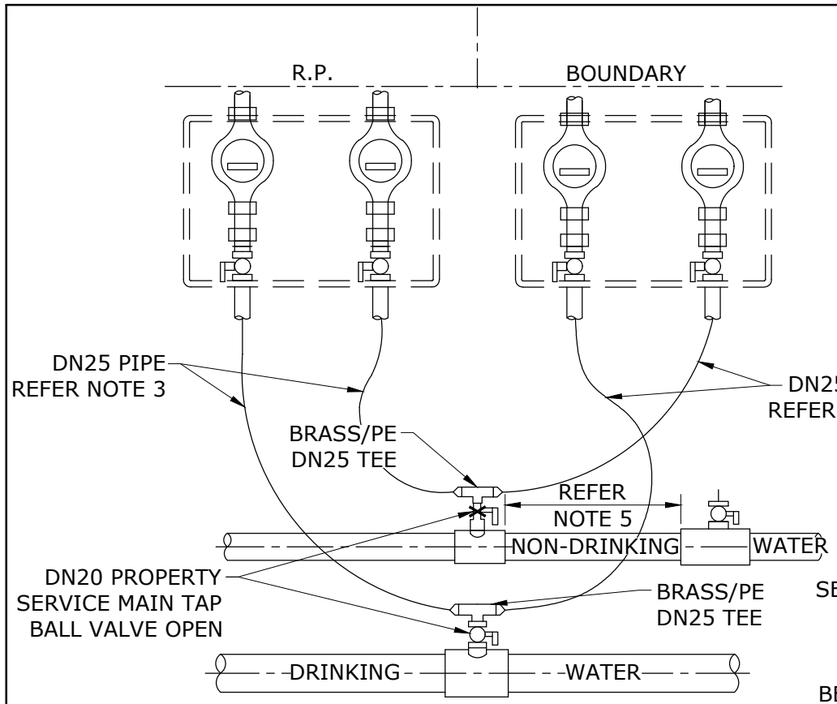
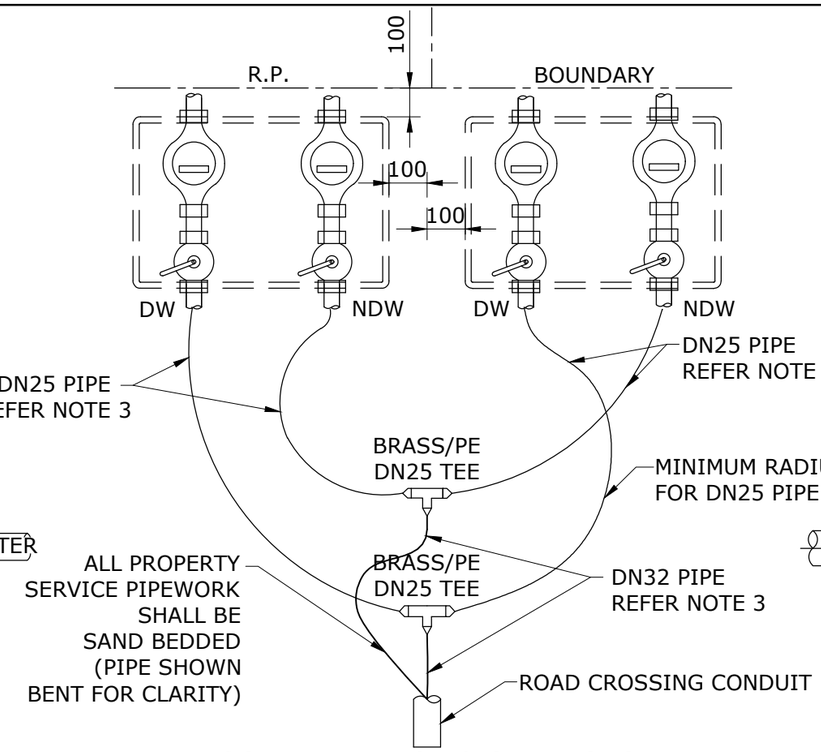
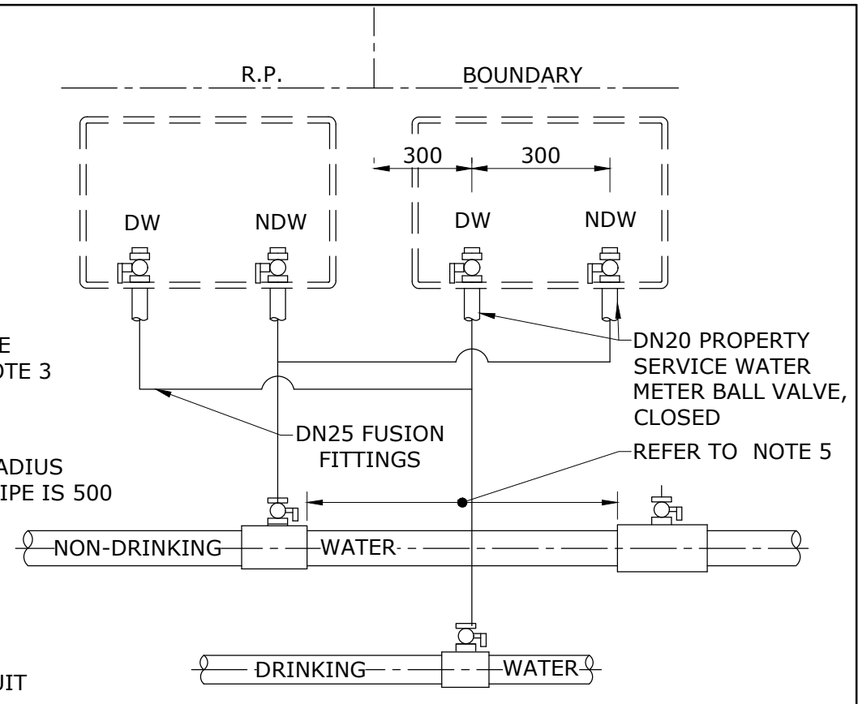


COMBINED SHORT SERVICES



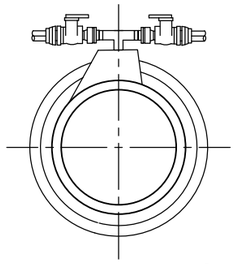
COMBINED LONG SERVICES



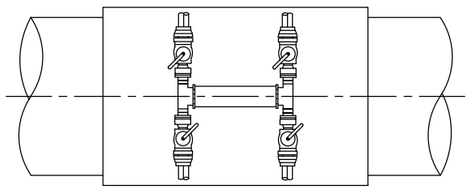
COMBINED SHORT SERVICES

NOTES:

1. FOR SINGLE PROPERTY SERVICE AND GENERAL PROPERTY SERVICE INSTALLATION DETAILS REFER TO STD DRG SEQ-WAT-1106-SET.
2. FOR TWIN DRINKING WATER AND TWIN NON-DRINKING WATER SERVICE TYPICAL INSTALLATION DETAILS REFER STD DRG SEQ-NDW-2303-1.
3. FOR PROPERTY SERVICE PIPE DETAILS REFER TO NOTES AND THE GENERAL DETAILS ON STD DRG SEQ-NDW-2303-1.
4. FOR DRINKING WATER AND NON-DRINKING WATER PROPERTY SERVICE PRESSURE PIPE COLOURS AND MARKING DETAILS REFER TO STD DRG SEQ-NDW-2303-1.
5. FOR MINIMUM TAPPING DISTANCES REFER TO NOTES ON STD DRG SEQ-NDW-2303-1.
6. METER BOX INSTALLED BY CIVIL CONTRACTOR. WATER METERS INSTALLED BY WATER AGENCY FOLLOWING METER APPLICATION, SEE NOTES ON STD. DRG. SEQ-NDW-2303-1.
7. DRINKING WATER = DW AND NON-DRINKING WATER = NDW
8. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



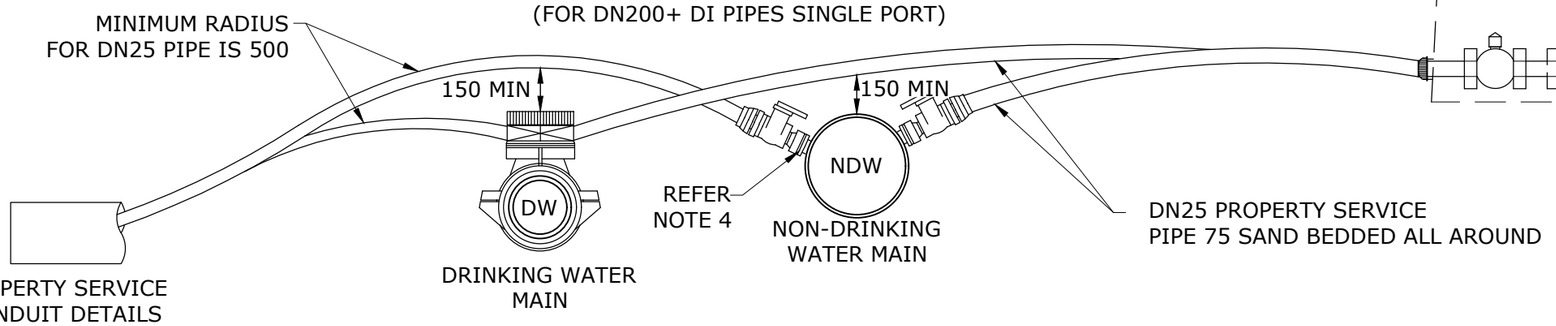
END ELEVATION



PLAN

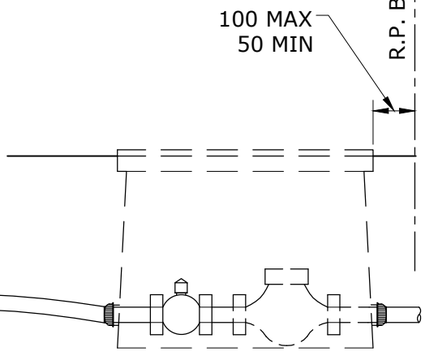
PRETAPPED TWIN CONNECTOR (DI)

(FOR DN200+ DI PIPES SINGLE PORT)



TYPICAL SERVICE CROSSOVERS

(FOR DN100 - DN300 PE & DI PIPES)



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WATER SUPPLY STANDARD DRAWING

TYPICAL PROPERTY SERVICES
DUAL WATER SYSTEMS
SERVICE CONNECTION MAIN TO METER

CoGC | ~~LCC~~ | ~~RCC~~ | ~~UU~~ | ~~UW~~

DRAWING No. SEQ-NDW-2304-1

VERSION B

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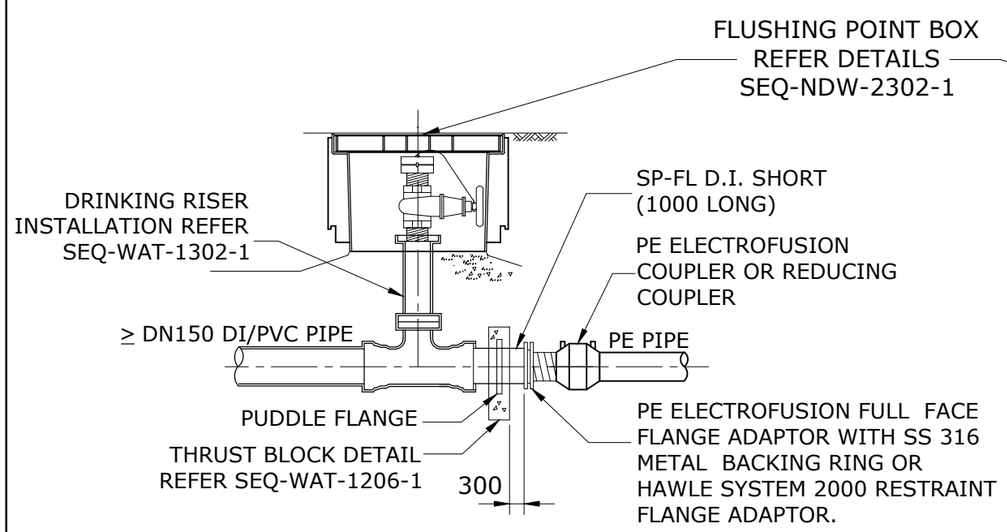
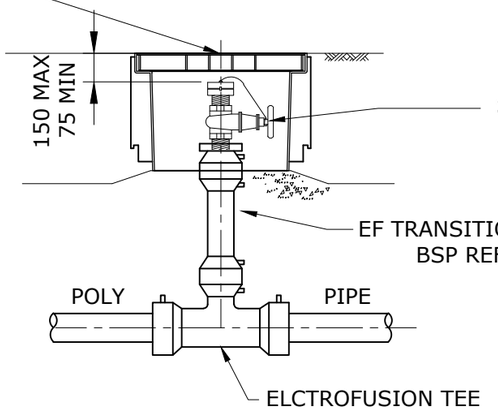
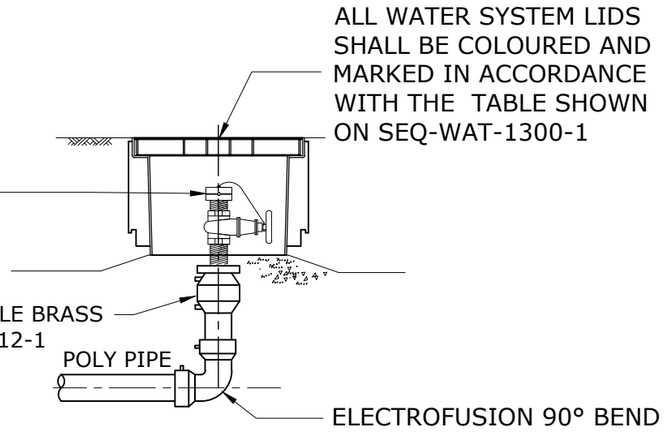
ORG DATE: 1/1/2013



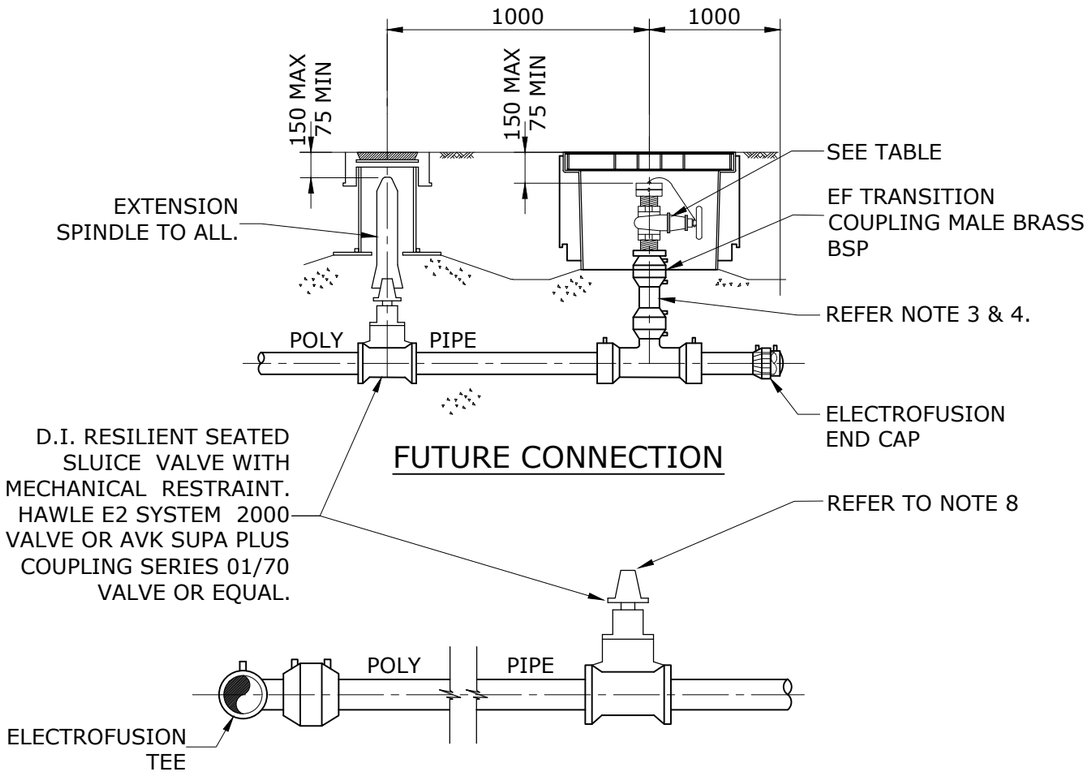
DETAIL A
IN-LINE CONNECTION Ø110 & Ø63 PE
(DRINKING WATER FLUSHING POINT DUAL WATER SYSTEMS)



DETAIL B
IN-LINE FLUSHING POINT
(DUAL WATER SYSTEMS DRINKING WATER)



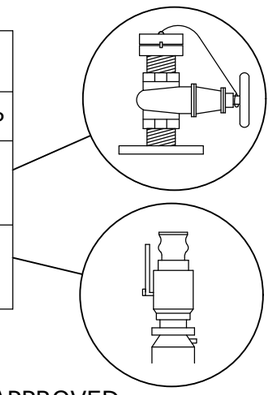
DETAIL C
FLUSHING POINT AT END OF LINE AND HEAD OF CUL-DE-SAC
(DUAL WATER SYSTEMS DRINKING AND NON-DRINKING)



PE IN-LINE VALVE

FLUSHING POINT FITTINGS

	VALVE F-F	COUPLING-M	DUST CAP
DRINKING WATER	1-1/2" BRASS GATE VALVE WITH BRASS HAND WHEEL	38 mm BRASS STORZ X 1 1/2" BSP	YES
NON-DRINKING WATER	1-1/2" BRASS BALL VALVE SS316 HANDLE, NUT AND SPINDLE	POLY CAMLOCK1 1/2" CAMLOCK	YES



NOTES:

1. ELECTROFUSION FITTINGS ONLY EXCEPT DETAIL 'A' TRANSITION MAY USE APPROVED MECHANICAL RESTRAINT COUPLINGS.
2. PE PIPES AND FITTINGS SHALL BE PE100, REFER SEQ-NDW-2312-1.
3. RISER PIPE SHALL BE STRAIGHT PIPE CUT TO REQUIRED LENGTH, NO COIL PIPE SHALL BE ACCEPTED.
4. DEEPER INSTALLATIONS WILL REQUIRE THE LENGTH OF THE RISER PIPE TO BE INCREASED AS APPROPRIATE.
5. GUIDELINES ON THE USE AND INSTALLATION OF PE SYSTEMS IS AVAILBLE FROM WSAA PE CODE.
6. NOMINATED SPECIFIC COMPONENTS LISTED TO ASSIST INSTALLERS, APPROVED ITEMS OF EQUAL PERFORMANCE ARE ACCEPTABLE.
7. ALIGN THE VALVE, WITHIN THE FOOTWAY/ VERGE, TO THE TANGENT OF THE PROPERTY BOUNDARY.
8. ALL RESILIENT SEATED SLUICE VALVES SHALL HAVE "ANTI-CLOCKWISE" SPINDLES FOR CLOSING.

REV. No.	DATE	DESCRIPTION	AUTH.
B	1/02/24	NOT FOR CONSTRUCTION, CoGC AND UU IN TITLE BLOCK	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

NOT FOR CONSTRUCTION

SEQ-SPs ACCEPT NO LIABILITY FOR THE USE OF TYPICAL DRAWINGS, WHICH MUST BE ADAPTED TO THE REQUIREMENTS OF THE PARTICULAR SYSTEM OR NETWORK AND ACCOMPANIED BY DETAILED DESIGNS CERTIFIED BY AN RPEQ

WATER SUPPLY STANDARD DRAWING

TYPICAL MAINS CONSTRUCTION
FLUSHING POINT DRINKING WATER
DUAL WATER SYSTEMS

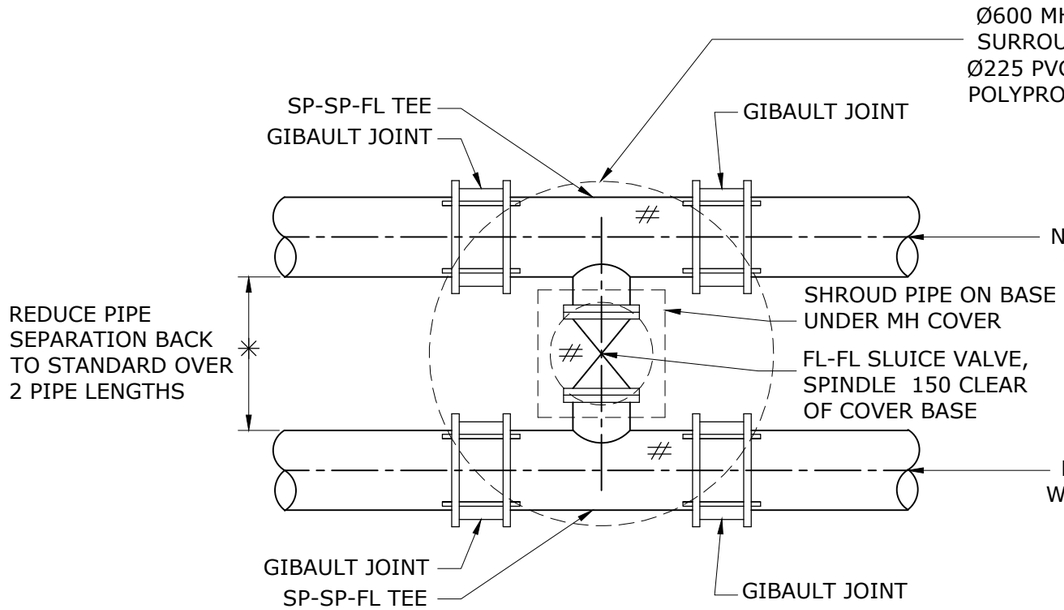
CoGC ~~LCC~~ ~~RCC~~ ~~UU~~ ~~UW~~

DRAWING No. SEQ-NDW-2305-1

VERSION B

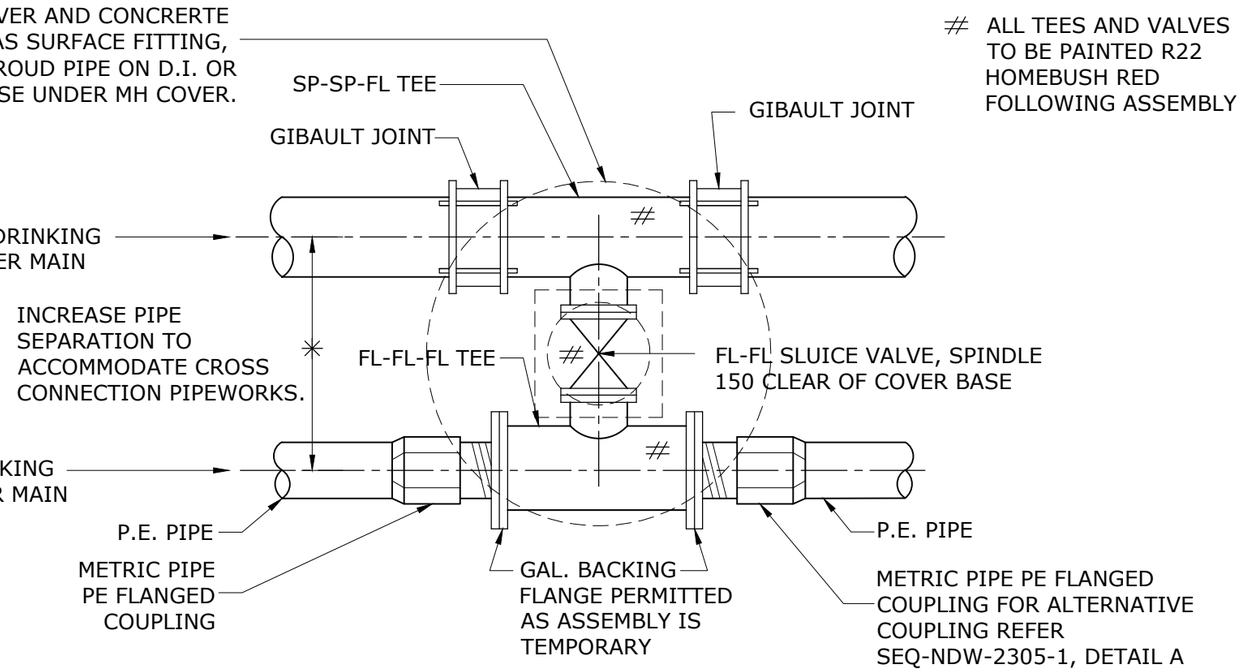
NOT TO SCALE

ORG DATE: 1/1/2013



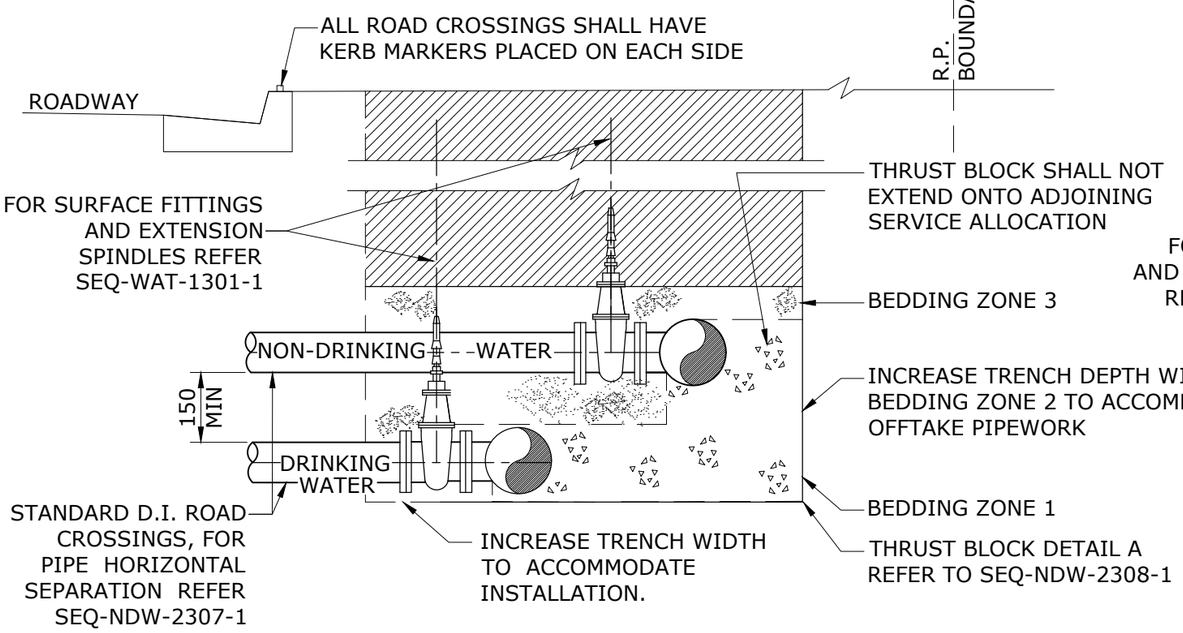
CROSS LINK DETAIL

(P.V.C. AND/OR D.I. PIPEWORK)



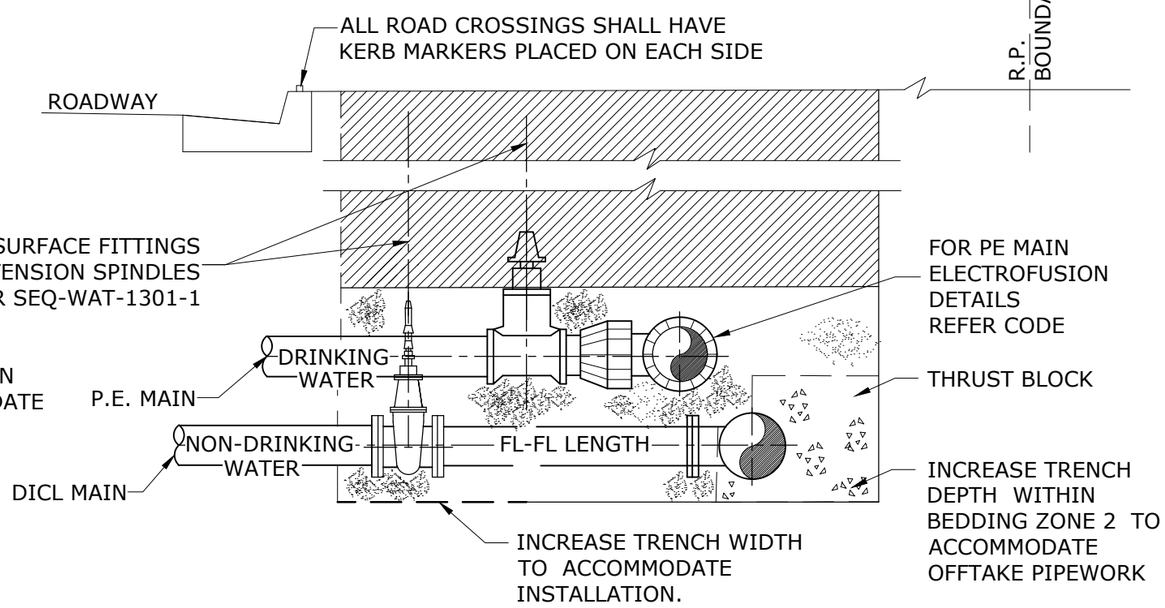
CROSS LINK DETAIL

(P.V.C. AND/OR D.I. TO P.E.PIPEWORK)



OFFTAKE DETAIL A

(PVC / DICL PIPES TO ALL)



OFFTAKE DETAIL B

(PVC / DICL & PE PIPES)

REV. No.	DATE	DESCRIPTION	AUTH.
B	1/02/24	NOT FOR CONSTRUCTION, CoGC AND UU IN TITLE BLOCK	

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WATER SUPPLY STANDARD DRAWING

TYPICAL MAINS CONSTRUCTION
DUAL WATER SYSTEM TEMPORARY
CROSS LINK & STANDARD ROAD CROSSINGS

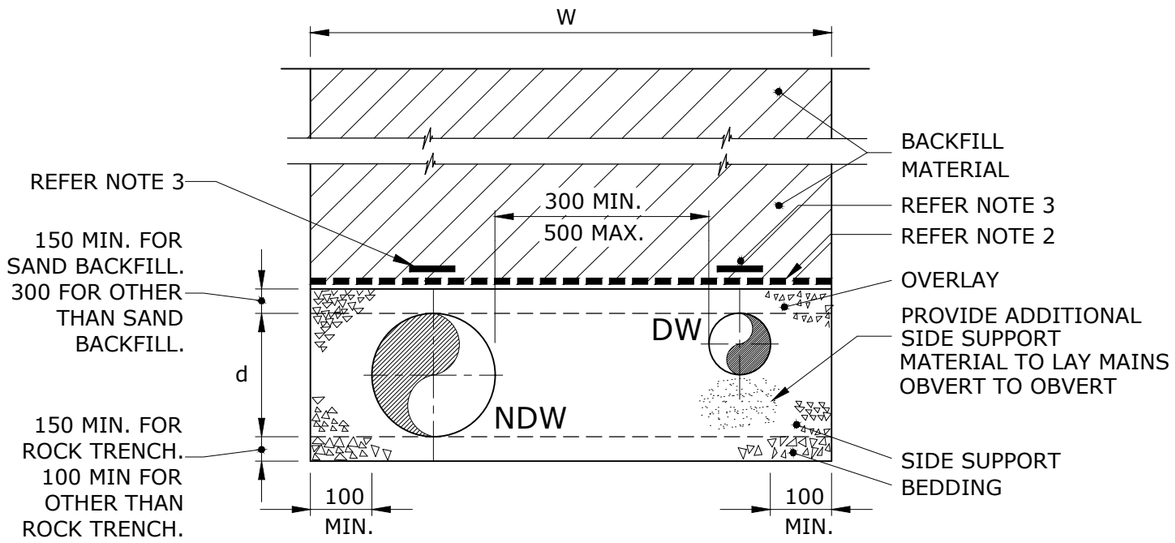
CoGC | ~~LCC~~ | ~~RCC~~ | ~~UU~~ | UW

DRAWING No. SEQ-NDW-2306-1

VERSION B

NOT TO SCALE

ORG DATE: 1/1/2013



TYPE O CONSTRUCTION - 850 TRENCH

(NON-DRINKING WATER MAIN CLOSEST TO PROPERTY)

COMMON TRENCHING

TRENCH WIDTH W	NOM. DIA d		TYPE 8
	DW	NDW	
850	63 x 63		A
	63 x 100		B
	63 x 150		C
	110 x 100		D
	110 x 150		E
	150 x 150		F
	150 x 200		G

COMMON TRENCHING FOR LARGER MAIN SIZES SHALL BE DETERMINED BY SERVICE PROVIDER. ADDITIONAL VERGE WIDTH AND 500 BETWEEN MAINS SHALL BE PROVIDED.

NOTES:

1. FOR EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS REFER CODE.
2. A GEOTEXTILE BARRIER SHALL BE PROVIDED AT THE INTERFACE OF OVERLAY AND BACKFILL.
3. THE ALIGNMENT OF ALL PIPES SHALL BE DEFINED BY A MARKER TAPE BURIED AT A DEPTH OF 300 mm MINIMUM. THE TAPE SHALL CONTAIN A CONTINUOUS METAL STRIP.
4. NON-DRINKING WATER MAIN = NDW & DRINKING WATER MAIN = DW.
5. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

REV. No.	DATE	DESCRIPTION	AUTH.
B	1/02/24	NOT FOR CONSTRUCTION, CoGC AND UU IN TITLE BLOCK	

SEQ WATER SERVICE PROVIDERS

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NOT FOR CONSTRUCTION

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WATER SUPPLY STANDARD DRAWING

TYPICAL WATER MAIN
TRENCH & BEDDING DETAILS
DUAL WATER SYSTEMS

CoGC ~~LCC~~ ~~RCC~~ ~~UU~~ ~~UW~~

DRAWING No. SEQ-NDW-2307-1

VERSION B

NOT TO SCALE

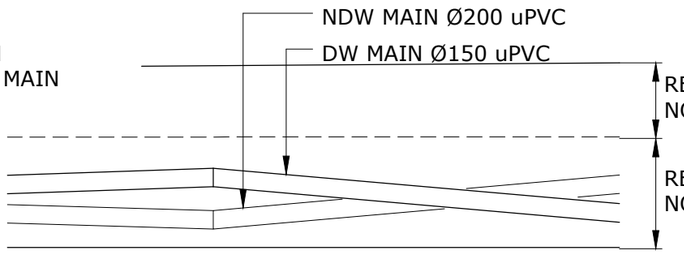
ORG DATE: 1/1/2013

THRUST BLOCK DIMENSIONS TABLE-DUAL WATER SYSTEMS

PIPE DIA.	FITTING	MAX. THRUST IN kN.	THRUST BLOCK HEIGHT	50KPa. SOFT CLAY	100KPa. SANDY LOAM SAND & GRAVEL	SAND & GRAVEL HARD CLAY 150KPa.	CLAY 200KPa. CEMENTED WITH SAND & GRAVEL
2 x 150	90° BEND	66.2	700	SD	950	650	•
	60° BEND	46.8		1350	700	•	•
	45° BEND	35.8		1050	•	•	•
	22.5° BEND	18.2		•	•	•	•
	11.25° BEND	9.2		•	•	•	•
	TEE OR CLOSED END	46.8		1350	700	•	•
2 x 200	90° BEND	117.6	800	SD	1500	1000	750
	60° BEND	83.2		SD	1050	700	•
	45° BEND	63.6		1600	800	•	•
	22.5° BEND	32.4		850	•	•	•
	11.25° BEND	16.4		•	•	•	•
	TEE OR CLOSED END	83.2		SD	1050	700	•
LARGER	BY DESIGN			BY DESIGN			
•	INDICATES BLOCK LENGTH OF 600 WITH 150 MIN. TOP & BTM. CONCRETE COVER.			L = THRUST BLOCK LENGTH			
SD	INDICATES SPECIAL DESIGN.						

LEGEND:

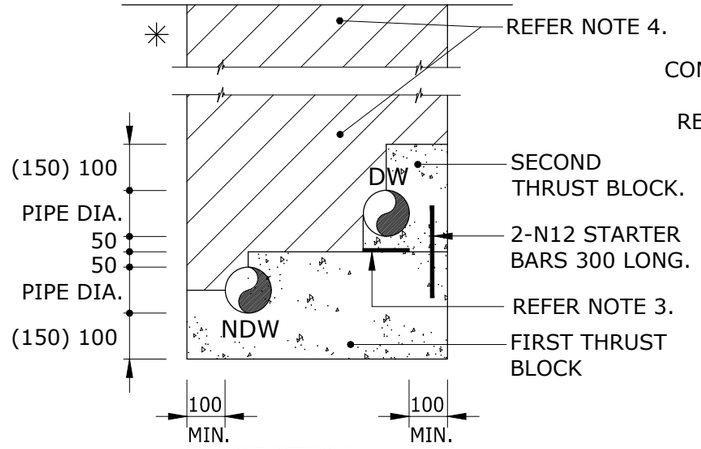
DW :- DRINKING WATER MAIN
NDW :- NON-DRINKING WATER MAIN
✳ :- PROPERTY SIDE



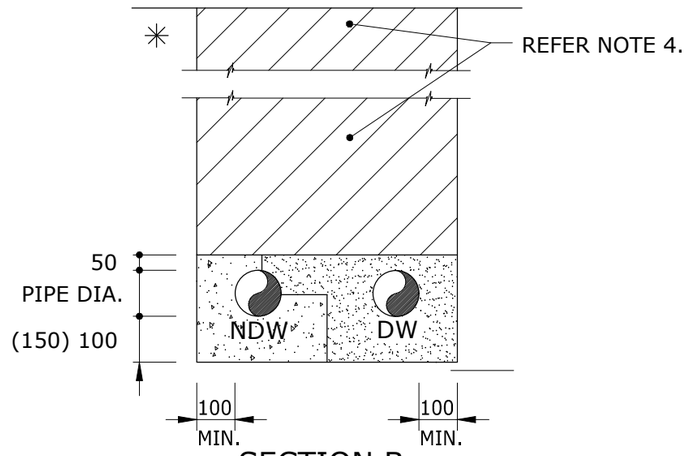
SECTIONAL ELEVATION

NOTES:

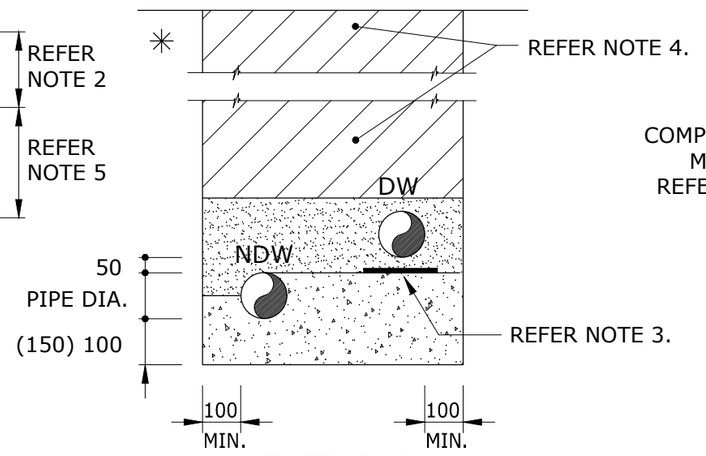
1. MAIN ON OUTSIDE OF BEND IS THE HIGHER MAIN.
2. MINIMUM PIPE COVER SHALL BE MAINTAINED.
3. COMPRESSIBLE MEMBRANE UNDER PIPES AND FITTINGS SHALL BE 10 mm THICK POLYSTYRENE.
4. REFER SEQ-WAT-1200 SERIES FOR TRENCH AND BEDDING DETAILS.
5. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



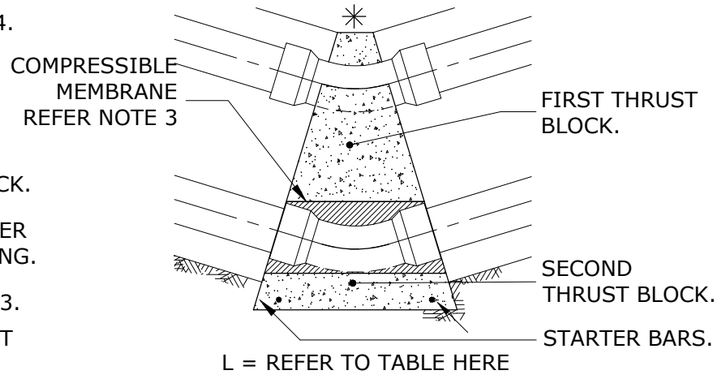
SECTION A



SECTION B

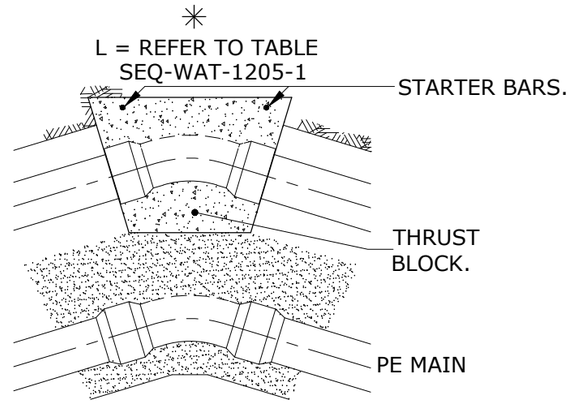


SECTION C



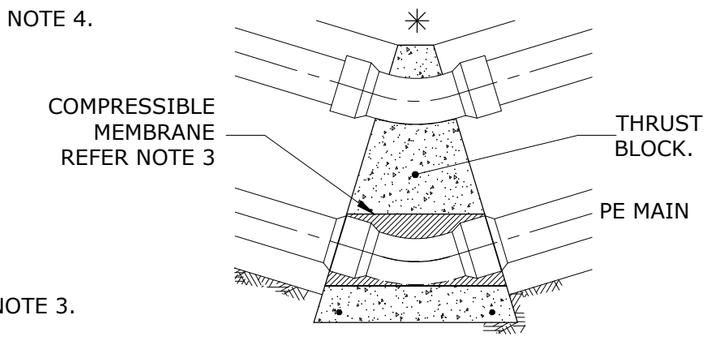
THRUST BLOCK DETAIL A

(2 x DICL/PVC MAINS)



THRUST BLOCK DETAIL B

(PE & DICL/PVC MAINS)



THRUST BLOCK DETAIL C

(PE & DICL/PVC MAINS)

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WATER SUPPLY STANDARD DRAWING

DUAL WATER SYSYTEM
TYPICAL COMMON TRENCH
THRUST RESTRAINT

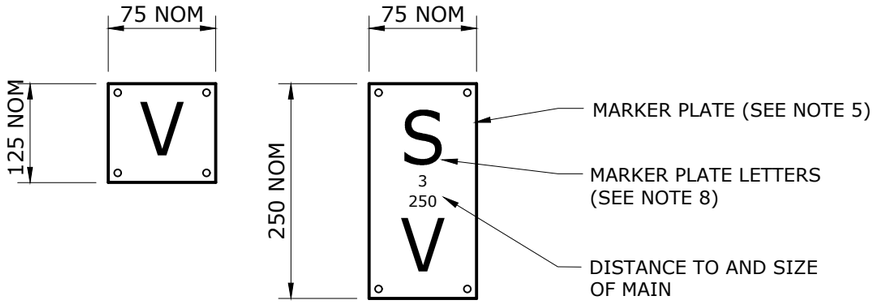
CoGC | LGC | RGC | UU | UW

DRAWING No. SEQ-NDW-2308-1

VERSION B

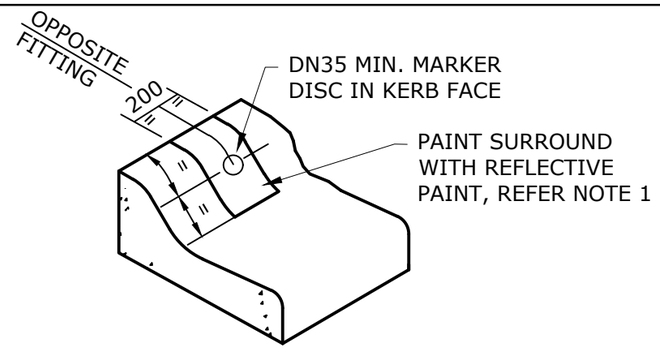
NOT TO SCALE

ORG DATE: 1/1/2013



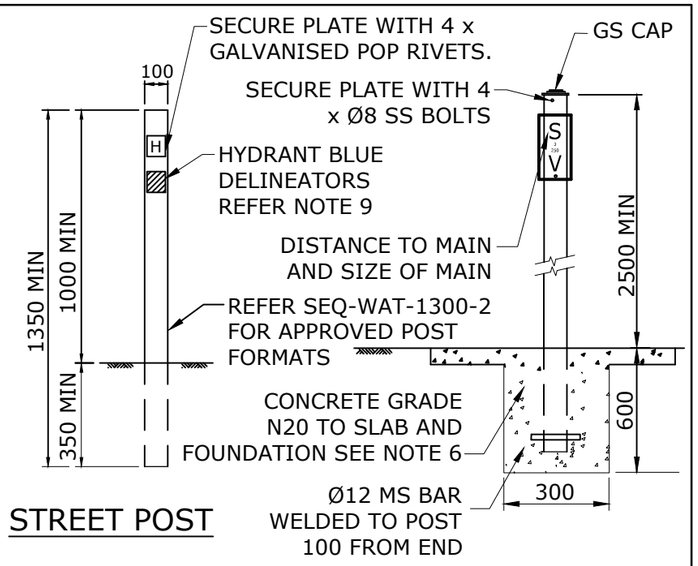
TYPICAL PLATE ARRANGEMENT

FIXED TO POST



KERB MARKING

(FOR MARKER DISCS, REFER DETAILS ON SEQ-WAT-1106-1 WITH CODES AS TABLED)

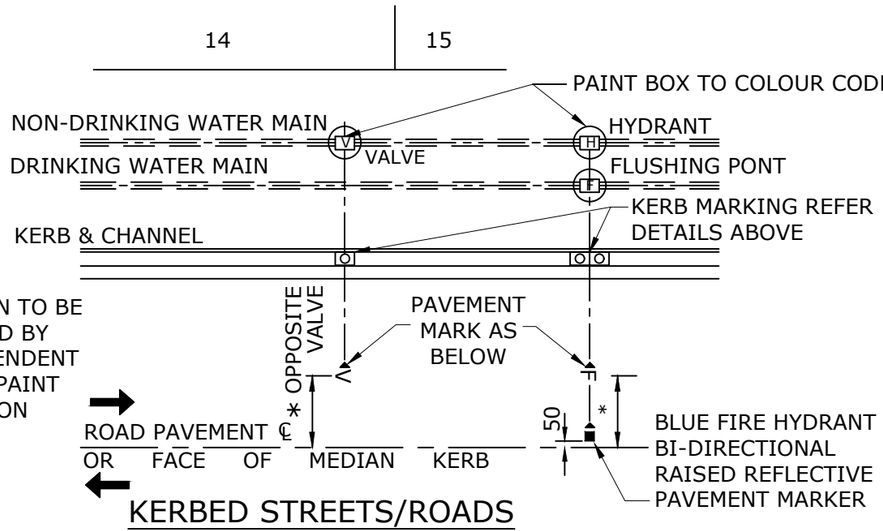


STREET POST

REMOTE AREA POST

GALVANISED 50NB MILD STEEL TUBE C350LO
(60.3 OD x2.3 WALL THICKNESS)

MARKER PLATE AND KERB MARKING CODES					
POST	KERB	FACILITY	POST	KERB	FACILITY
H	H	HYDRANT	V	V	VALVE
F	F	FLUSHING POINT	SC	SC	SWABBING CHAMBER
AV	AV	AIR VALVE	HL	HL	HIGH LEVEL MAIN
SV	SV	SCOUR VALVE	ML	ML	MID LEVEL MAIN
SH	SH	SWABBING HYDRANT	LL	LL	LOW LEVEL MAIN
VB	VB	VALVE BOX			

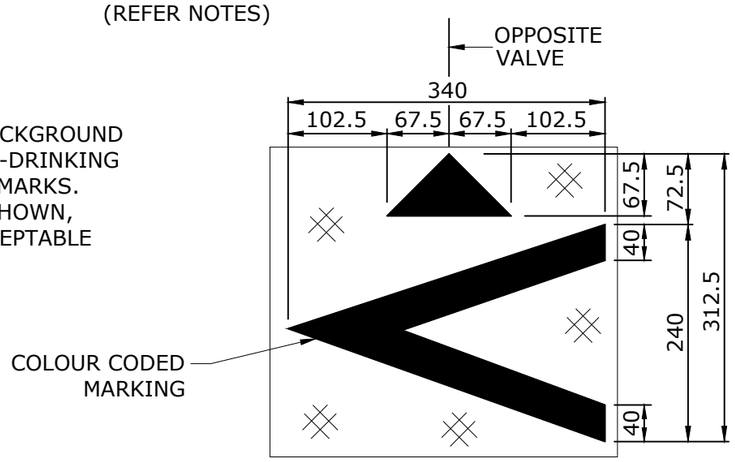


KERBED STREETS/ROADS
TYPICAL PAVEMENT MARKING PLAN FOR VALVES

(REFER NOTES)

COLOUR CODES	
NON-DRINKING WATER	
PURPLE	- VALVES, SCOUR VALVES, AIR VALVES, HYDRANTS , FLUSHING POINTS.
GREEN	- SMALL DN BY-PASS VALVE
RED/PURPLE (R/P)	- ZONE VALVES, BOUNDARY VALVES
DRINKING WATER	
WHITE	- VALVES, SCOUR VALVES SWABBING CHAMBERS, AIR VALVES
YELLOW	- HYDRANTS, FLUSHING POINTS
RED	- CLOSED ZONE VALVES
BLUE	- DIALYSIS VALVES
GREEN	- SMALL DN BY-PASS VALVE
RED/WHITE (R/W)	- BOUNDARY VALVE PMA / DMA

PAINTED WHITE BACKGROUND ONLY FOR ALL NON-DRINKING WATER PAVEMENT MARKS. SQUARE FORMAT SHOWN, RECTANGULAR ACCEPTABLE



PAVEMENT MARKING FOR VALVES

(REFER NOTES 1 AND 2)

NOTES:

1. PAVEMENT MARKING PAINT SHALL BE OF AN APPROVED REFLECTIVE PAINT, INCORPORATING APPLIED GLASS BEADS, MANUFACTURED TO THE REQUIREMENTS OF MAIN ROADS. THE PAINT COLOUR SHALL BE AS DETAILED.
2. PAVEMENT MARKINGS SHALL BE LOCATED CLEAR OF THE PARKING LANE SO THAT TYRE WEAR IS MINIMISED. THE EXACT LOCATION SHALL BE DETERMINED BY THE SUPERINTENDENT FOLLOWING SITE INSPECTIONS.
3. FOR COUNCIL CONTROLLED ROADS, RAISED BLUE FIRE HYDRANT MARKERS SHALL BE IN ACCORDANCE WITH AS1906.3. THE BLUE REFLECTOR SHALL FACE THE DIRECTION OF APPOACHING TRAFFIC.
4. FOR STATE CONTROLLED ROADS, RAISED BLUE FIRE HYDRANT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
5. ALL KERB AND PAVEMENT MARKINGS SHALL BE COLOUR CODED AS SHOWN.
6. MARKER POSTS SHALL ONLY BE USED IN NON RESIDENTIAL STREETS AND ROADS WHERE THERE IS NO KERB & CHANNEL AND SHALL BE POSITIONED AT THE FRONT OF PROPERTY BOUNDARY OPPOSITE THE FITTING. REMOTE AREA POSTS USED WHERE NO STREET EXISTS. PROVIDE 1200 x 1200 x 100 THICK CONCRETE SLAB AROUND FACILITY BOX.
7. MARKER POSTS ARE REQUIRED WHERE DIFFERENT PRESSURE ZONE WATER RETICULATION IS CONSTRUCTED AND MARKED, DESIGNATING THE DIFFERENT PRESSURE ZONE.
8. THE NOTICE PLATE SHALL BE REFLECTORIZED ALUMINIUM WITH BLACK LETTERING ON A WHITE BACKGROUND NOMINALLY 80 x 80.
9. FOR COUNCIL CONTROLLED ROADS, IN ADDITION TO THE NOTICE PLATE MARKER, A BLUE DELINEATOR MARKER COMPLYING WITH MAIN ROADS SPECIFICATION ES126 SHALL BE INSTALLED AS DETAILED. FOR STATE CONTROLLED ROADS, DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

REV. No.	DATE	DESCRIPTION	AUTH.
B	1/02/24	NOT FOR CONSTRUCTION, CoGC AND UU IN TITLE BLOCK	

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WATER SUPPLY STANDARD DRAWING

VALVE & HYDRANT IDENTIFICATION
MARKERS & MARKER POSTS
DUAL WATER SYSTEM

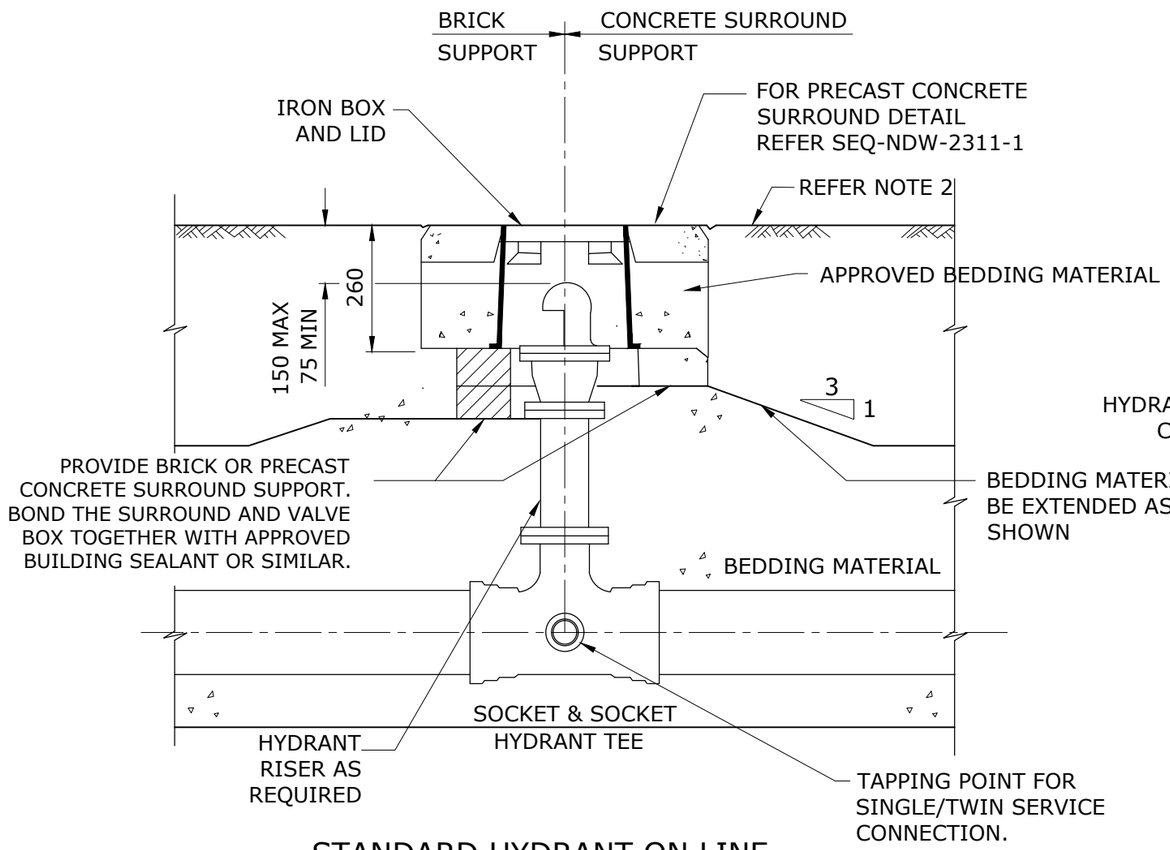
CoGC | ~~LCC~~ | ~~RCC~~ | ~~UU~~ | ~~UW~~

DRAWING No.: SEQ-NDW-2309-1

VERSION: B

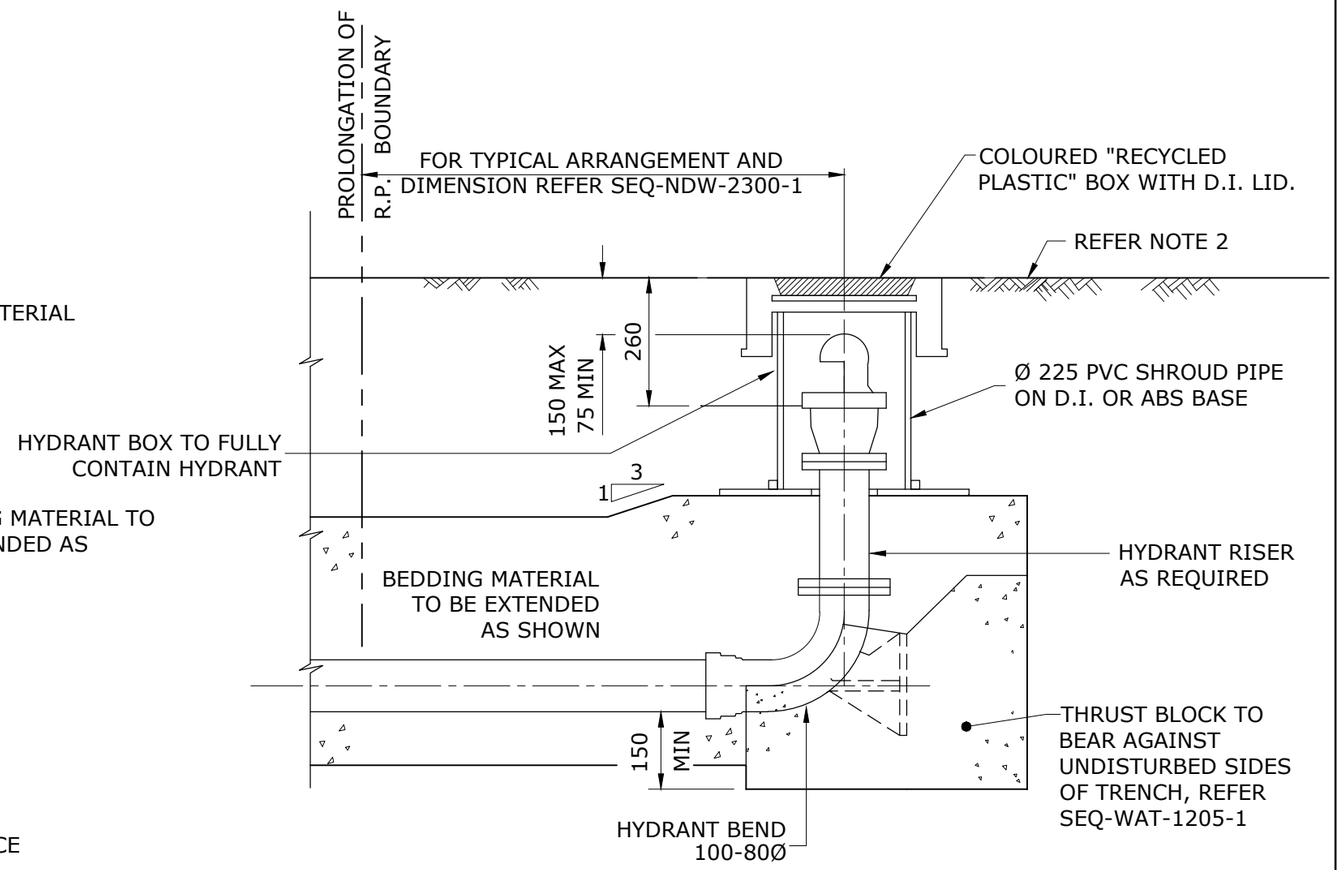
NOT TO SCALE

ORG DATE: 1/1/2013



STANDARD HYDRANT ON LINE

(ONLY ON NON-DRINKING WATER MAIN FOR DUAL WATER SYSTEMS)

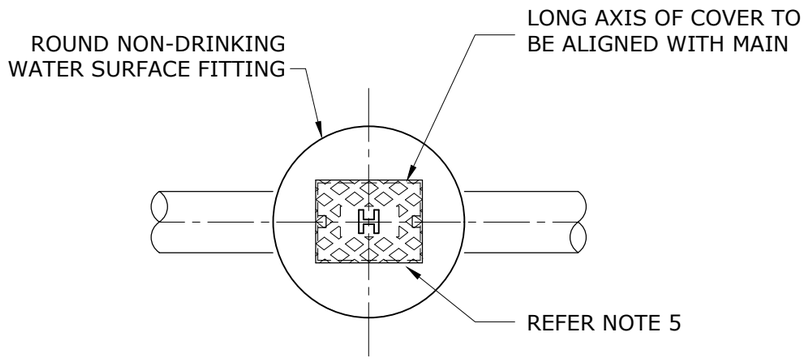


SWABBING HYDRANT AT END OF LINE AND HEAD OF CUL-DE-SAC

(ONLY ON NON-DRINKING WATER MAIN FOR DUAL WATER SYSTEMS)

NOTES:

1. EITHER PRECAST CONCRETE SURROUNDS/SUPPORTS AND/OR BRICK SUPPORT OR RECYCLED PLASTIC BOX ARE ACCEPTABLE.
2. ALL CONCRETE SURROUNDS AND PLASTIC BOXES SHALL BE LAID TO THE FINISHED PROFILE OF THE FOOTPATH VERGE.
3. FOR PRECAST CONCRETE SURROUND/SUPPORT AND BRICK SUPPORT DETAILS REFER SEQ-WAT-1305-1 AND SEQ-WAT-1306-1.
4. FOR TYPICAL HYDRANT ARRANGEMENT REFER SEQ-NDW-2300-1.
5. BOX COVERS FOR SWABBING HYDRANTS SHALL HAVE "SH"MARKED ON TOP.
6. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



HYDRANT BOX ALIGNMENT

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WATER SUPPLY STANDARD DRAWING

TYPICAL HYDRANT INSTALLATION
NON-DRINKING WATER HYDRANTS
DUAL WATER SYSTEMS

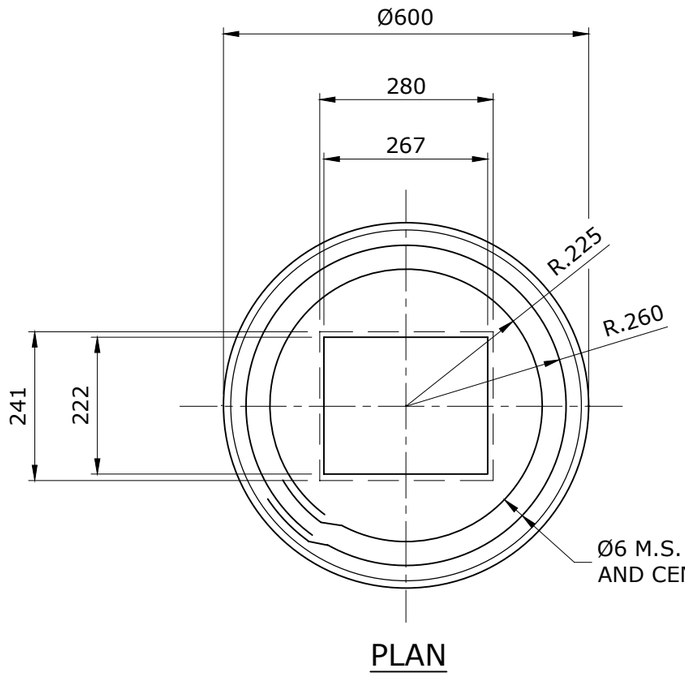
CoGC | ~~LCC~~ | ~~RCC~~ | ~~UU~~ | ~~UW~~

DRAWING No. SEQ-NDW-2310-1

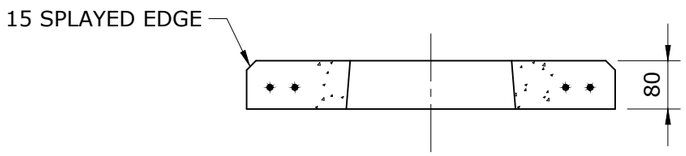
VERSION B

NOT TO SCALE

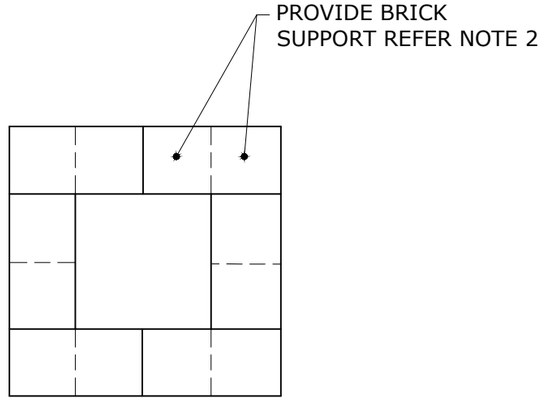
ORG DATE: 1/1/2013



PLAN



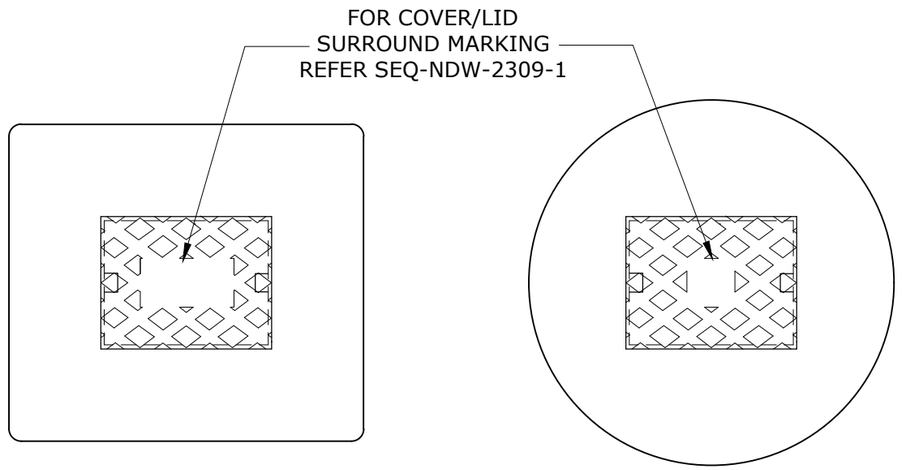
SECTION



BRICK SUPPORT LAYOUT

PRECAST CONCRETE SURROUND AND SUPPORT DETAILS

(NON-DRINKING WATER SHAPE SHOWN)



DRINKING WATER

NON-DRINKING WATER

SURFACE FITTING ARRANGEMENT

NOTES:

1. BOTH PRECAST CONCRETE SURROUND AND BRICK SUPPORT DETAILS SHOWN ARE ACCEPTABLE.
2. BRICK SUPPORTS SHALL BE A MINIMUM TWO COURSES AND LAID DRY OVER THE BEDDING MATERIAL. APPLY BUILDING SEALANT OR SIMILAR TO BOND BRICKS TOGETHER AND TO THE VALVE/HYDRANT BOX.
3. FOR HYDRANTS AND FLUSHING POINTS THE CONCRETE SURROUND AND LID SHALL BE PAINTED WITH APPROVED PURPLE REFLECTIVE PAINT FOR NON-DRINKING WATER.
4. FOR VALVES AND OTHER FITTINGS THE CONCRETE SURROUND AND LID SHALL BE PAINTED WITH APPROVED REFLECTIVE PAINT IN ACCORDANCE WITH THE COLOUR CODE SHOWN ON SEQ-NDW-2309-1.
5. CONCRETE TO BE GRADE N25.
6. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

REV. No.	DATE	DESCRIPTION	AUTH.
B	1/02/24	NOT FOR CONSTRUCTION, CoGC AND UU IN TITLE BLOCK	

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

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SEQ-SPs ACCEPT NO LIABILITY FOR THE USE OF TYPICAL DRAWINGS, WHICH MUST BE ADAPTED TO THE REQUIREMENTS OF THE PARTICULAR SYSTEM OR NETWORK AND ACCOMPANIED BY DETAILED DESIGNS CERTIFIED BY AN RPEQ

WATER SUPPLY STANDARD DRAWING

TYPICAL DUAL WATER SYSTEM
VALVE & HYDRANT SURFACE BOX
SUPPORT & SURROUND DETAILS

CoGC ~~LCC~~ ~~RCC~~ ~~UU~~ ~~UW~~

DRAWING No. SEQ-NDW-2311-1

VERSION B

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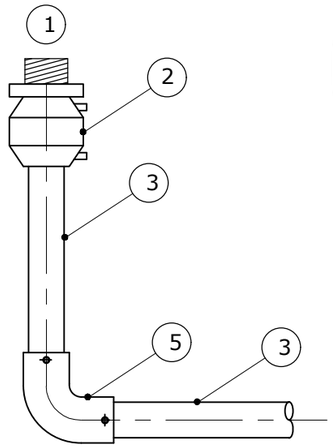
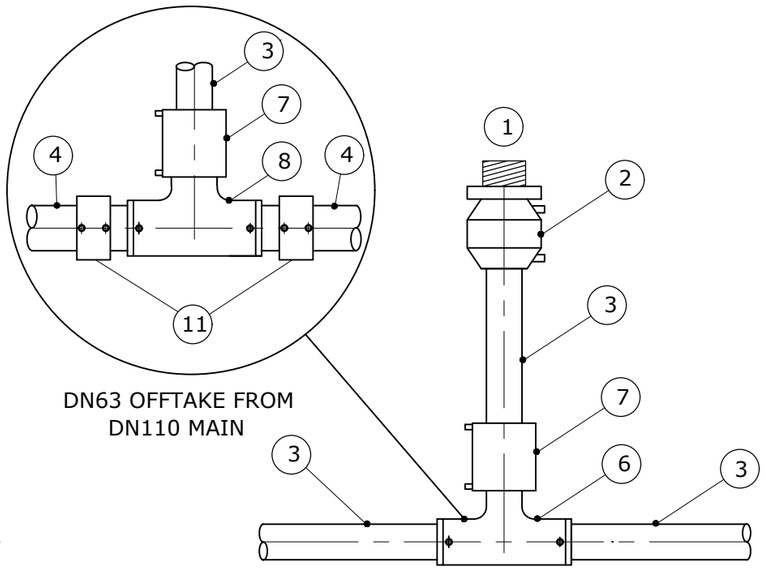
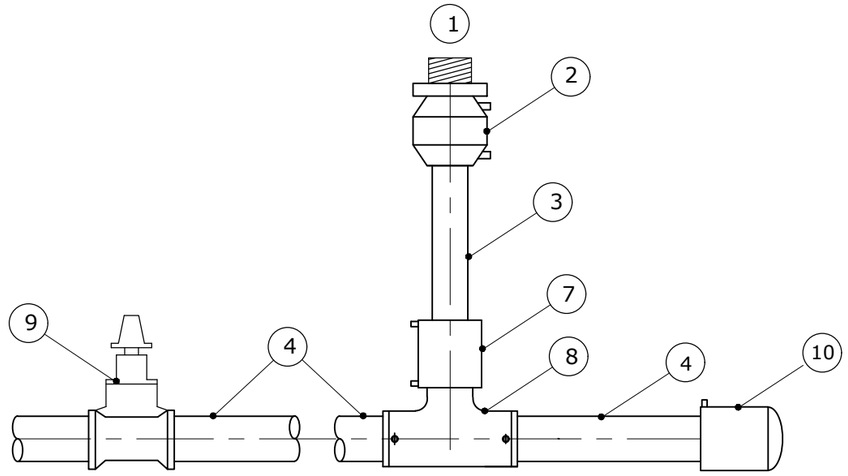
ORG DATE: 1/1/2013



ELECTROFUSED END OF LINE FLUSHING POINT



ELECTROFUSED IN-LINE FLUSHING POINT DN63 MAIN



ELECTROFUSED FUTURE CONNECTION WITH IN-LINE FLUSHING POINT

DRINKING WATER DUAL RETICULATION FLUSHING POINTS

LEGEND

1. FLUSHING POINT FITTING, SEE SEQ-NDW-2302-1 AND AND SEQ-NDW-2305-1
2. TRANSITION COUPLER PE DN63 / BRASS MALE 1 1/2"
3. DN63 SERIES 1 PE100 - SDR11/PN16 PIPE
4. DN110 SERIES 1 PE100 - SDR11/PN16 PIPE
5. 90° ELBOW COUPLING
6. TEE 90° EQUAL, SPIGOT BRANCH
7. DN63 COUPLER
8. TEE 90° REDUCER DN110 x DN63 BRANCH
9. DI BODIED RESILIENT SEATED VALVE, MECHANICAL GRIPPER OR PE ELECTROFUSION STUB CONNECTIONS
10. END CAP
11. DN110 COUPLER

NOTES

1. ALL DIMENSIONS IN MILLIMETRES.
2. REFER TO CODE FOR DETAILS OF COMPONENT SIZE, COMPOUND, PRESSURE CLASS AND COLOUR.
3. FOR SURFACE FITTING INSTALLATIONS REFER TO STANDARD DRAWINGS.
4. FOR JOINTING DETAILS REFER TO CODE.
5. ALL BACKING PLATES, NUTS, BOLTS AND WASHERS TO BE MINIMUM GRADE 316 STAINLESS STEEL.
6. NON-DRINKING WATER DOWNSIZED MAINS AT CUL-DE-SAC ENDS UTILISE THE ASSEMBLY FORMAT FOR "END OF LINE"

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WATER SUPPLY STANDARD DRAWING

TYPICAL INSTALLATION FITTINGS
DN63 & DN110 PE ASSEMBLIES
DUAL WATER SYSTEMS

CoGC | ~~LCC~~ | ~~RCC~~ | ~~UU~~ | ~~UW~~

DRAWING No. SEQ-NDW-2312-1

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