

<p>PLAN TO BE READ IN CONJUNCTION WITH CURRENT WINGECARRIBE SHIRE COUNCIL STANDARDS</p>		<p>TYPE</p>
<p>PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-</p>		
DIAL BEFORE YOU DIG	Ph. 1100	
ELECTRICITY	AUSGRID Ph. 02 49510899	
GAS	JENENA Ph. 1300 880 906	
TELECOMMUNICATIONS	TELSTRA Ph. 1800 653 635	
<p>GIVING AT LEAST 48 HOURS NOTICE.</p>		

UTILITIES							
TYPE		DATE	REF.	TYPE		DATE	REF.
	PROPOSED SW						
	EXIST SW						
	PROPOSED PW						
	EXIST PW						
	PROPOSED WW						
	EXIST WW						

WORK AS CONSTRUCTED CERTIFICATION	
DEVELOPER	_____
WATER SERVICE CO-ORDINATOR	_____
CONSTRUCTOR	_____
COMPLETED	_____ W.A.C. PREPARED _____
DESIGNER	_____
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	

PIPE SCHEDULE				
SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
100	o.P.V.C.	PN16		
DESIGN HEAD _____ m			NO BOUNDARY TRAP REQUIRED.	

AUSTRALIAN HEIGHT DATUM

SCALES

PLAN	<u>1:1000</u>	SECTION {	HOR.	_____
			VERT.	_____

CROSS SECTIONS NATURAL

LENGTHS, DEPTHS & LEVELS ARE IN METRES.

U.S. DIRECTORY _____	
SHEET <u>1</u> OF <u>4</u>	File No. NA242813

UPPER LACHLAN SHIRE COUNCIL
WAT_01.01
WATER MAIN EXTENSION
3 MEMORY AVE, CROOKWELL
UPPERLACHLAN SHIRE COUNCIL

INSET 1

CONSTRUCT DN25 DUAL
PRE-LAID WATER SERVICE.CONSTRUCT DN25 DUAL
PRE-LAID WATER SERVICE.CONSTRUCT DN25 DUAL
PRE-LAID WATER SERVICE.CONNECT TO EXISTING DN100 WATER
MAIN ON SAME LINE & COVER USING
VARI-GIB TYPE CONNECTOR. REPLACE
EX 90° BEND WITH DN100 TEE.EX DN100
AVENUE2 X DN100 45°
BEND W/TB TYPE 5.DN100 SV
DN100 HYDEXISTING DN100 WATER MAIN LOCATION
BASED ON SURVEY DATA. CONTRACTOR
TO POT HOLE AND POSITIVELY IDENTIFY
LOCATION, SIZE & PIPE MATERIAL PRIOR
TO CONSTRUCTION COMMENCEMENT.CONSTRUCT DN25 DUAL
PRE-LAID WATER SERVICE.DN100 22.5° BEND
W/TB TYPE 4.CONSTRUCT DN25 DUAL
PRE-LAID WATER SERVICE.CONSTRUCT DN25 DUAL
PRE-LAID WATER SERVICE.CONSTRUCT DN25 DUAL
PRE-LAID WATER SERVICE.2 X DN100 22.5°
BEND W/TB TYPE 4.CONSTRUCT DN25 DUAL
PRE-LAID WATER SERVICE.DN100 22.5° BEND
W/TB TYPE 4.DN100 45° BEND
W/TB TYPE 5.DN100 45° BEND
W/TB TYPE 5.

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER

W.S.C.

CONSTRUCTOR

COMPLETED

W.A.C. PREPARED

DESIGNER

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN
ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

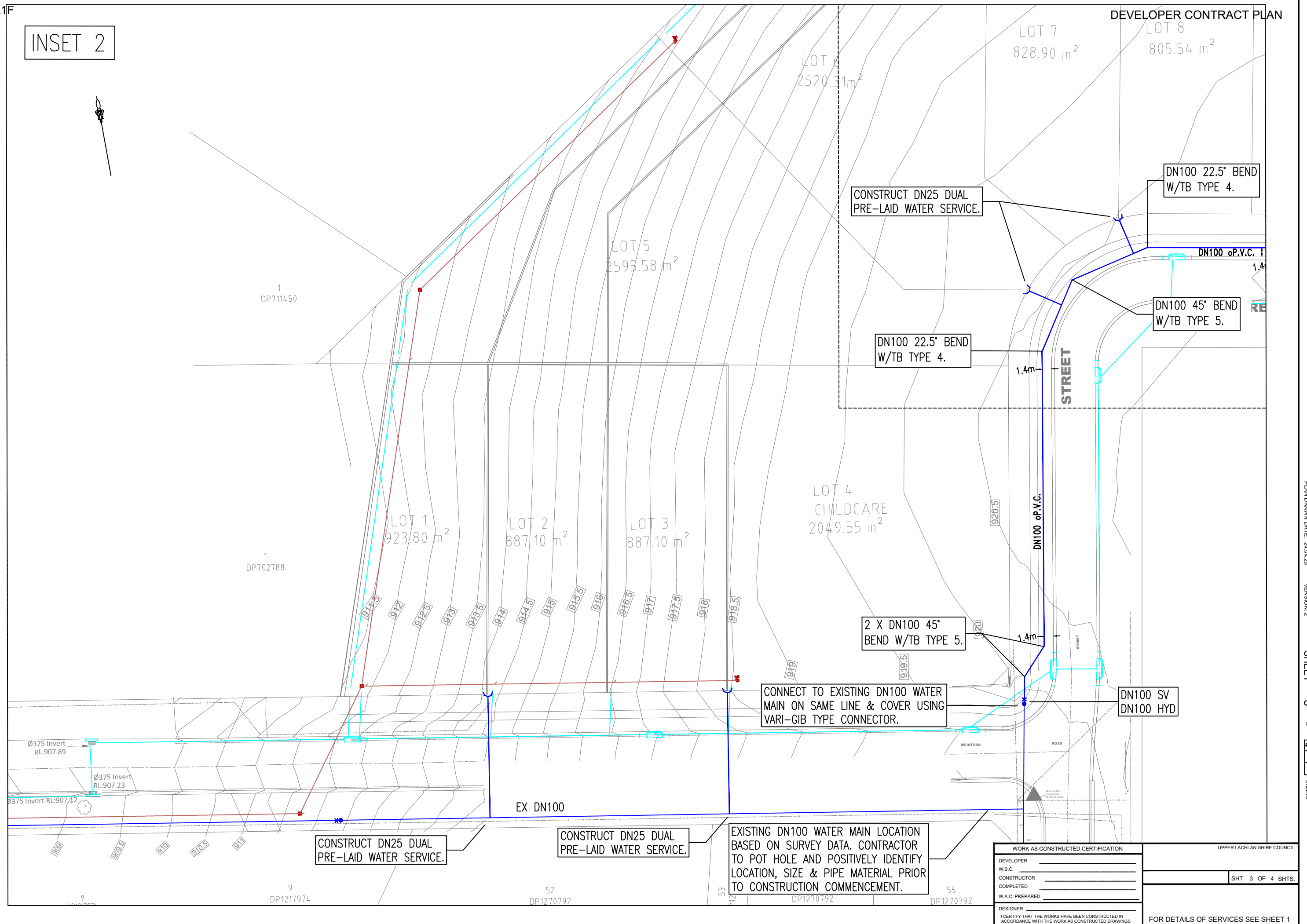
UPPER LACHLAN SHIRE COUNCIL

SHT 2 OF 4 SHTS.

FOR DETAILS OF SERVICES SEE SHEET 1

INSET 2

DEVELOPER CONTRACT PLAN

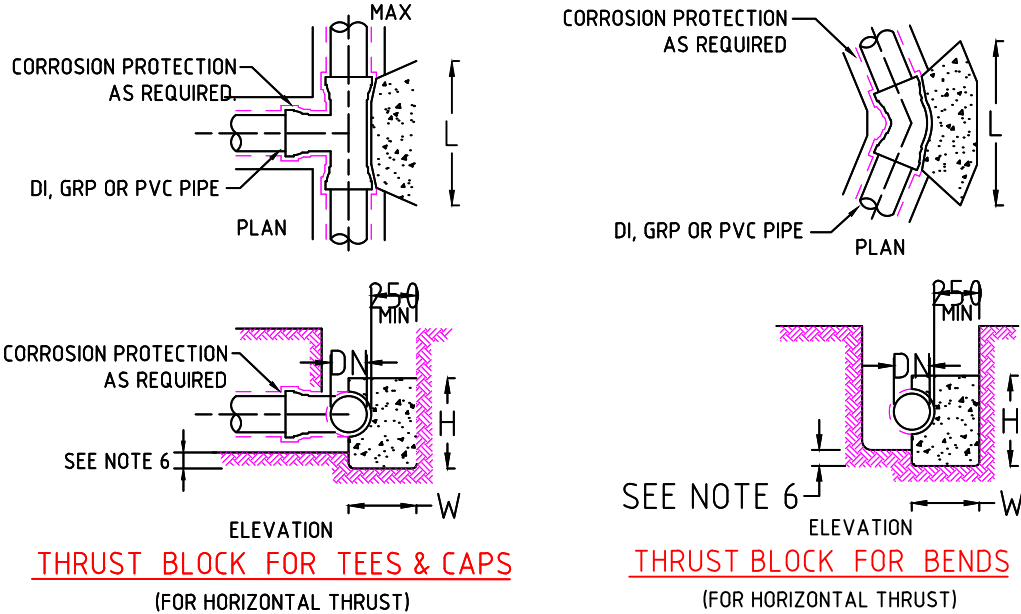
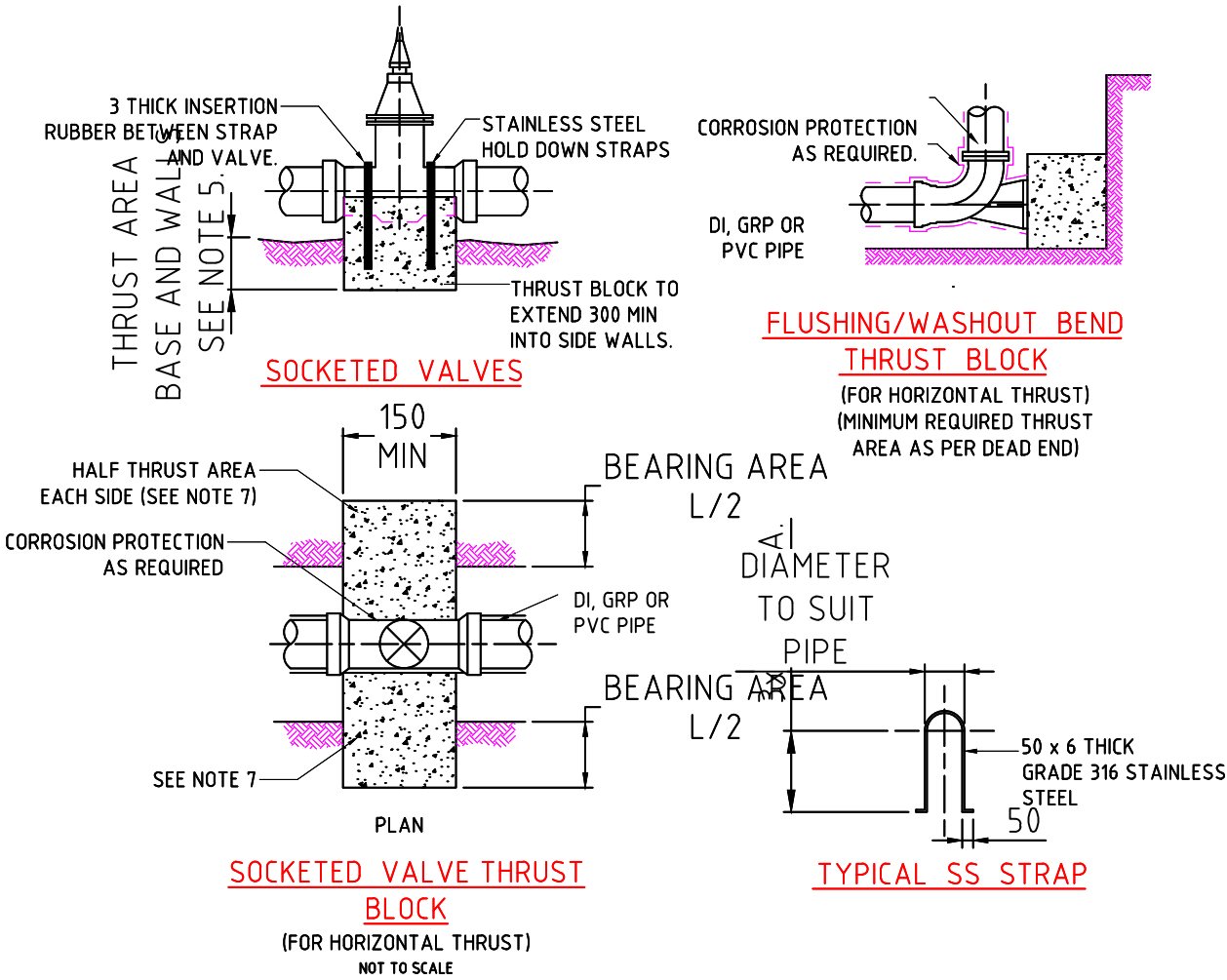


THRUST BLOCK DETAILS							
TYPE	FITTING TYPE	DESIGN AHBP	DESIGN STP	TOTAL AREA (m2)	LENGTH (m)	HEIGHT (m)	WIDTH (m)
1	100 CAP	50	1000	0.240	XSV	XSV	0.25
2	100 SV	50	1000	0.240	XSV	XSV	0.25
3	100 11.25° BEND	50	1000	XN	XN	XN	0.25
4	100 22.50° BEND	50	1000	0.100	0.4	0.3	0.25
5	100 45° BEND	50	1000	0.180	0.6	0.3	0.25
6	100 90° BEND	50	1000	0.340	1.2	0.3	0.25
7	100 x 100 TEE	50	1000	0.240	0.8	0.3	0.25
8	300 x 100 TEE	50	1000	1.870	2.1	0.9	0.25
XN - NOMINAL TRENCH WIDTH							

- AHPB: ALLOWABLE HORIZONTAL BEARING PRESSURE, TYPICALLY 50kPa
STP: SYSTEM TEST PRESSURE, TYPICALLY 1200KPa
- THRUST BLOCK NOTES:**
- CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
 - THRUST BLOCK DIMENSIONS ARE BASED ON THE MINIMUM ALLOWABLE HORIZONTAL BEARING PRESSURES OF THE SOIL AS SHOWN. IF GROUND CONDITIONS ENCOUNTERED INDICATE THAT THESE BEARING PRESSURES MAY NOT BE ACHIEVED THRUST BLOCK DESIGN IS TO BE REVISED.
 - THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
 - CONCRETE FOR THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
 - CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.

- GENERAL WATER NOTES:**
- WATER MAINS, HYDRANTS & STOP VALVES TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF MID COAST COUNCIL SPECIFICATIONS.
 - WATER MAINS TO HAVE MINIMUM 600mm COVER IN FOOTPATH AREAS AND A MINIMUM 750mm COVER IN ROADWAYS
 - ALL PIPES AND FITTINGS TO BE PN16
 - ALL FITTINGS TO BE DUCTILE IRON (DICI) UNLESS OTHERWISE SHOWN.
 - POTABLE WATER MAINS TO BE UPVC (COLOUR BLUE) WITH GREEN INDICATING TAPE PLACED OVER THE MAIN MARKED "CAUTION WATER MAIN BURIED BELOW". ALL HYDRANT COVERS ON POTABLE WATER MAIN TO BE PAINTED YELLOW & ALL STOP VALVE COVERS ON POTABLE WATER MAIN TO BE PAINTED WHITE.
 - DICI PIPES TO BE RACKED AT JOINTS TO A MAXIMUM DEFLECTION OF 5 DEGREES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. BENDS ARE TO BE PLACED AS SHOWN.
 - UPVC PIPES TO BE RACKED AT JOINTS TO A MAXIMUM DEFLECTION OF 5 DEGREES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. BENDS ARE TO BE PLACED AS SHOWN.
 - ON SWEEPING BENDS CURVATURE TO BE ACHIEVED BY SHORTENING PIPES TO INTRODUCE ADDITIONAL JOINTS.
 - THRUST BLOCKS TO BE PLACED AT TEES, BENDS, DEAD ENDS & STOP VALVES IN ACCORDANCE WITH THE REQUIREMENTS OF MID COAST COUNCIL SPECIFICATIONS.
 - ALL PIPES, FITTINGS & MATERIALS SHALL BE NEW & MANUFACTURED & INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF MID COAST COUNCIL SPECIFICATIONS.
 - PRESSURE TEST IN ACCORDANCE WITH MID COAST COUNCILS TECHNICAL SPECIFICATIONS WATER INFRASTRUCTURE. ALL ACCEPTANCE TESTING TO BE COMPLETED BY A SUITABLY QUALIFIED THIRD PART CONTRACTOR.
 - CONNECTIONS TO PUBLIC WATER SUPPLY SYSTEMS TO BE MADE BY MID COAST COUNCIL. THE CONTRACTOR IS REQUIRED TO MAKE CONNECTION APPLICATION AND PAY THE ASSOCIATED CONNECTION FEE. CONTRACTOR IS NOT PERMITTED TO WORK ON COUNCILS LIVE ASSETS.
 - SERVICE CONDUIT AND CROSSINGS SHALL BE PROVIDED AS PART OF THE WATER RETICULATION WORKS.
 - MINIMUM SERVICE CROSSING CONDUIT DIAMETER IS 100mm WITH A 20mm COPPER SERVICE PROVIDED FOR EACH PROPERTY SERVED.
 - INDIVIDUAL LOT CONNECTIONS, CUTTING INTO EXISTING MAINS & PRV TO BE CARRIED OUT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. BENDS ARE TO BE PLACED AS SHOWN.
 - TRENCH STOPS ARE TO BE CONSTRUCTED ON ALL LINES WHICH HAVE A GRADIENT STEEPER THAN 1:20 (5%).
 - CONCRETE BULKHEADS TO BE CONSTRUCTED ON ALL LINES WHICH HAVE A GRADIENT STEEPER THAN 1:10 (10%).
 - ALL FOOTPATHS & ROADS TO BE REINSTITATED UPON COMPLETION OF WORK.
 - CONTRACTORS TO TAKE CARE WHEN EXCAVATING NEAR TREES
 - ALL MATERIAL TO HAVE WATERMARK CERTIFICATION OF COMPLIANCE TO AS/NZS4020. CERTIFICATION TO BE PROVIDED TO COUNCIL PRIOR TO INSTALLATION.

WATER MAINS CLEARANCE TABLE			
UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE (MM)		MINIMUM VERTICAL CLERANCE (MM)
	NEW MAIN SIZE		
	≤ DN200	> DN200	
WATER MAINS ² >DN 375	600	600	300
WATER MAINS ≤DN 375	300 ³	600	150
GAS MAINS	300 ³	600	150
SCALE	300 ³	600	150
ELECTRICITY CONDUITS AND CABLES	500	1000	225 ⁷
STORMWATER DRAINS	300 ³	600	150 ⁴
SEWERS – GRAVITY	1000 ⁵ / 600	1000 ⁵ / 600	500 ⁴
SEWERS – PRESSURE AND VACUUM	600	600	300
KERBS	150	600 ⁶	150 (WHERE POSSIBLE)



WORK AS CONSTRUCTED CERTIFICATION	UPPER LACHLAN SHIRE COUNCIL
DEVELOPER _____	
W.S.C. _____	
CONSTRUCTOR _____	SHT 4 OF 4 SHTS.
COMPLETED _____	
W.A.C. PREPARED _____	
DESIGNER _____	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1