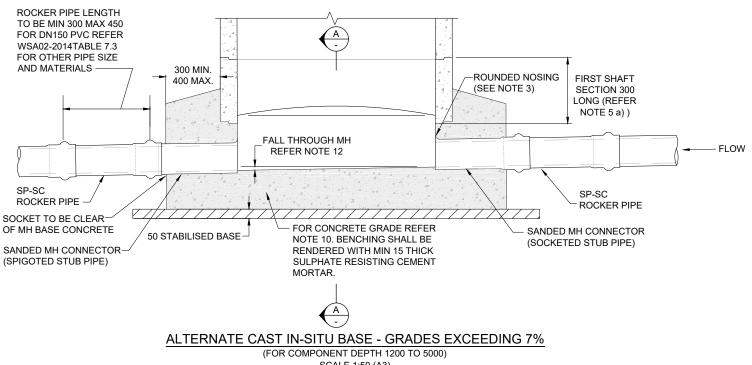


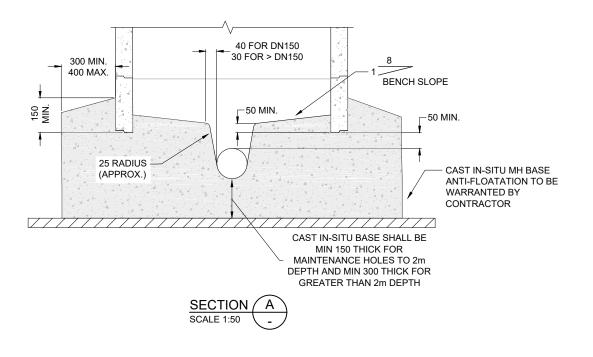
PRECAST MAINTENANCE HOLE WITH PRE-CAST BASE

(FOR COMPONENT DEPTH 1200 TO 5000) SCALE 1:50 (A3)



NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE
- MAINTENANCE HOLES (MH) SHALL NOT EXCEED 5m DEPTH.
- PROVIDE ROUNDED NOSING ON INLET & OUTLET PIPES TO PREVENT DAMAGE TO JETTING EQUIPMENT & CCTV GUIDES & CABLES.
- CONSTRUCTION MAY BE A COMBINATION OF PRECAST AND IN-SITU TO SUIT APPLICATION. a) PRECAST MH REQUIREMENTS REFER TSC C402.38.
 - b) WHERE SEWER GRADES ARE 5% OR LESS PRE CAST MH BASES SHALL BE USED UNLESS AUTHORISED BY TSC W&WW UNIT. CAST IN-SITU MH BASES MAY BE USED WHERE A NEW MH IS REQUIRED OVER AN EXISTING SEWER.
 - c) CAST IN-SITU MH BASES SHALL BE USED WHERE THE SEWER GRADE IS STEEPER THAN 5% UNLESS AUTHORISED BY TSC W&WW UNIT.
- FOR IN-SITU CONSTRUCTION FIRST SHAFT SECTION SHALL
 - a) BE 300 HIGH TO ALLOW FORMING OF CHANNEL & BENCH
 - b) PRIMED 200 FROM BOTTOM WITH CEMENT SLURRY.
- BACKFILL AROUND MANHOLE:
 - a) THE METHOD OF BACKFILL & COMPACTION AROUND MH TO BE GENERALLY AS FOR PIPE EMBEDMENT.
 - b) EMBEDMENT MATERIAL TO TSC 401.26
 - c) TAKE CARE TO RAISE SELECT FILL EQUALLY ALL AROUND THE MH TO AVOID UNBALANCED LATERAL LOADING.
- FOR ALL MH'S. STEP IRONS OR LADDERS ARE PROHIBITED
- CONCRETE FOR CAST IN-SIITU MH BASE AND BENCHING SHALL BE MIN 25MPa EXCEPT
 - a) ACID SULPHATE SOILS ARE PRESENT WITH pH>4 USE SCC40 TO WSA 114:2002.
 - b) SOIL pH IS ≤ 4 A SPECIAL DESIGN SHALL BE SUBMITTED TO TSC W&WW UNIT FOR APPROVAL
- MH BASE AND BENCHING SHALL BE RENDERED WITH MINIMUM 15 THICK SULPHATE RESISTING CEMENT MORTAR IN ACCORDANCE WITH WSA 02-2014 CLAUSE 17.2.4.
- APPLY AN EXTERNAL BITUMASTIC SEAL TAPE 150 WIDE OVER A COAT OF MANUFACTURERS RECOMMENDED PRIME SEAL TO ALL JOINTS.
- FOR MH COVER CLASS SELECTION & FINISHED LEVELS REFER TO TSC D12
- FALL THROUGH MHs SHALL BE IN ACCORDANCE WITH WSA01-2014 SECTION 5.6.6. INCLUDING:
 - a) MIN 30mm WHERE DEFLECTION LESS THAN 90°C
 - b) MIN 80mm WHERE DEFLECTION MORE THAN 90°C
 - c) FALL SHALL NOT EXCEED GREATER OF 150mm OR DIFFERENCE BETWEEN IN/OUT PIPF DN
- CONCRETE SURROUND AND COVER MUST BE ACCOMPANIED BY A DEVICE TO CREATE WATER TIGHT SEAL
- DUCTILE IRON SURROUNDS & COVERS SHALL BE HINGED WITH RUBBER WATER TIGHT SEAL (MAESTRO OR SIMILAR)
- MANHOLE BASE SHALL BE DESIGNED TO ALLOW SMOOTH TRANSITION OF FLOW. THE MAXIMUM VERTICAL DEFLECTION OF PIPES SHALL BE 13% UNLESS IT IS STRAIGHT THROUGH MANHOLE



SCALE 1:50 (A3) SCALE: A1 SHEET 1:25, A3 SHEET 1:50 S.K.J R.W 15.03.19 FULL DRAWING REVISION ORIGINAL ISSUE O.N. J.M.M. 11.10.16 DRAWN CHECK DATE # USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. WEBSITE www.tweed.nsw.gov.au ISSUE | AMENDMENT DETAILS

DESIGN UNIT

TUMBULGUM ROAD MURWILLUMBAH NSW 2484.

02 66727513



	DESIGN ENGINEER DATE 15.03.19					
	DESIGNED	P.H.	11.10.16			PI /
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SEWERAGE WORKS STANDARDS

MAINTENANCE HOLES FOR SEWERS

S.D.278

DRAWING NUMBER ISSUE

S.D.278