

NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE FOLLOWING:
 - DTC/2000 - MAINTENANCE HOLES, CONSTRUCTION NOTES
 - DTC/2200 - DN1200 MAINTENANCE HOLES, CAST IN-SITU REINFORCED CONCRETE
 - DTC/2202 - DN1200 MAINTENANCE HOLES, CAST IN-SITU PLAIN CONCRETE WALL
 - DTC/2401 - EMERGENCY RELIEF STRUCTURE: INSTRUCTIONS, GENERAL NOTES & DRAWING LIST
- STANDARD WAPRO WASTOP INLINE CHECK VALVE OR APPROVED EQUIVALENT TO BE USED. THE MAXIMUM SIZE OF THE INLINE CHECK VALVE APPLIED IN THIS DTC IS DN450.
- INLINE CHECK VALVE TO BE INSTALLED AS FOLLOWS:
 - INLINE CHECK VALVE MUST BE INSTALLED A MINIMUM OF 24 HOURS AFTER THE APPLICATION OF PROTECTIVE COATING TO ENSURE THE COATING HAS ACHIEVED SUFFICIENT STRENGTH.
 - MOUNTING TABS AND RUBBER SEAL TO BE USED.
 - INLINE CHECK VALVE TO BE INSTALLED WITH THE 'SPINE' OF THE MEMBRANE UPWARDS.
 - BOLTS FOR SECURING INLINE CHECK VALVES SHALL BE SECURED WITH TWO GRADE 316 STAINLESS STEEL THREADED RODS OF 90mm LENGTH COMPLETE WITH WASHER AND NUT. THREADED RODS SHALL BE SECURED IN DRILLED HOLES FILLED WITH AN INJECTION MORTAR AS NOTED IN TABLE 1.
- IF INSTALLING A NEW INLINE CHECK VALVE AT AN EXISTING ERS THE FOLLOWING ARE REQUIRED:
 - REMOVE EXISTING FLAP VALVE AND MAKE GOOD ANY HOLES. NO MODIFICATIONS TO BE MADE TO THE WEIR OR WEIR OPENING.
 - VALVE CHAMBER AND RELIEF PIPE TO BE CLEARED AND ALL SILT AND DEBRIS TO BE REMOVED PRIOR TO THE INSTALLATION OF THE INLINE CHECK VALVE.
 - CHECK THE INTERNAL CHAMBER DIMENSIONS TO ENSURE THERE WILL BE SUFFICIENT ROOM TO INSTALL THE VALVE WITHOUT ANY MODIFICATIONS TO THE EXISTING STRUCTURES. REFER TO TABLE 2 FOR MINIMUM CHAMBER DIMENSIONS REQUIRED TO INSTALL INLINE CHECK VALVES WITHOUT STRUCTURAL MODIFICATIONS.

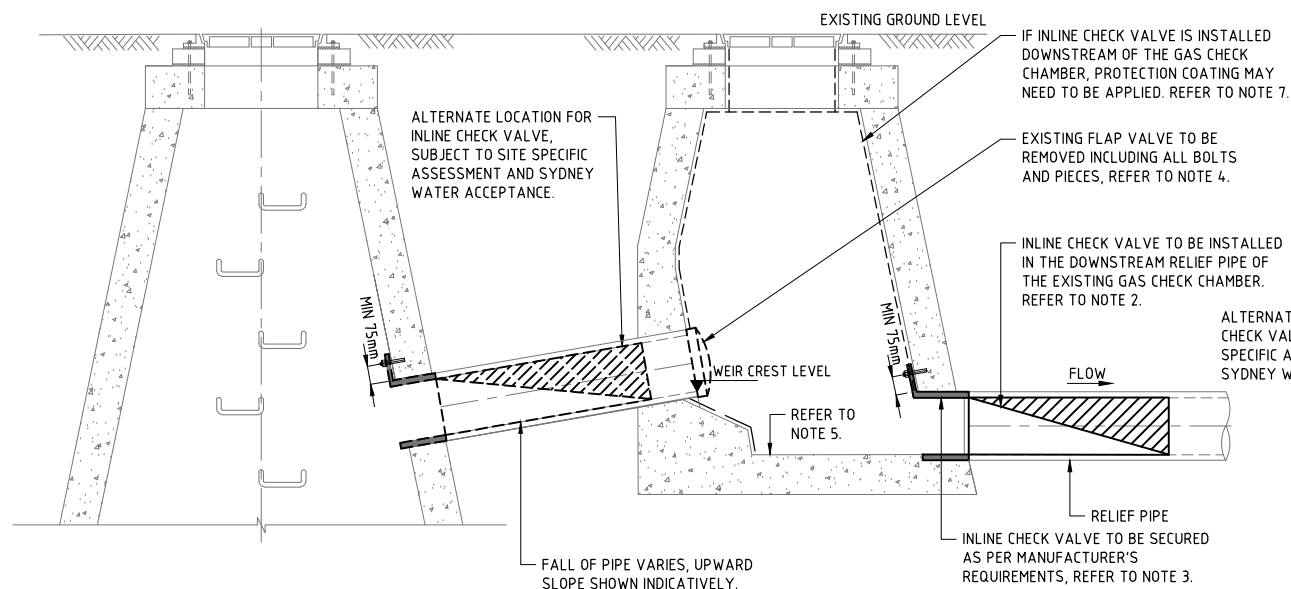
TABLE 1

INLINE CHECK VALVE DN	SECURING THREADED ROD DIA.	DRILL HOLE SIZE DIA. / DEPTH	INJECTION MORTAR
≤250	6mm	8 / 60	HILTI HIT - RE 500
>250	8mm	10 / 60	

TABLE 2

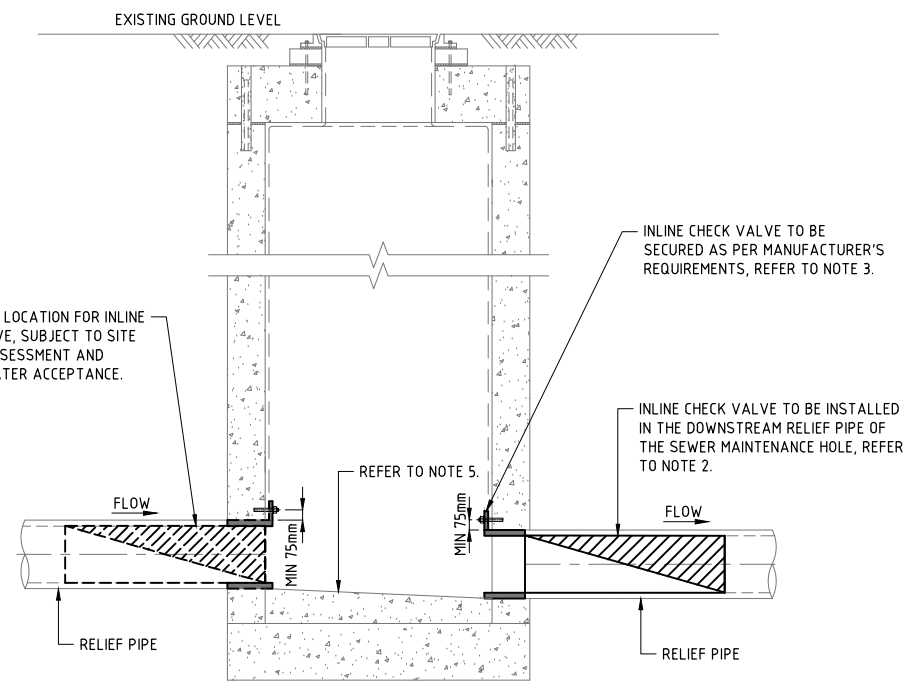
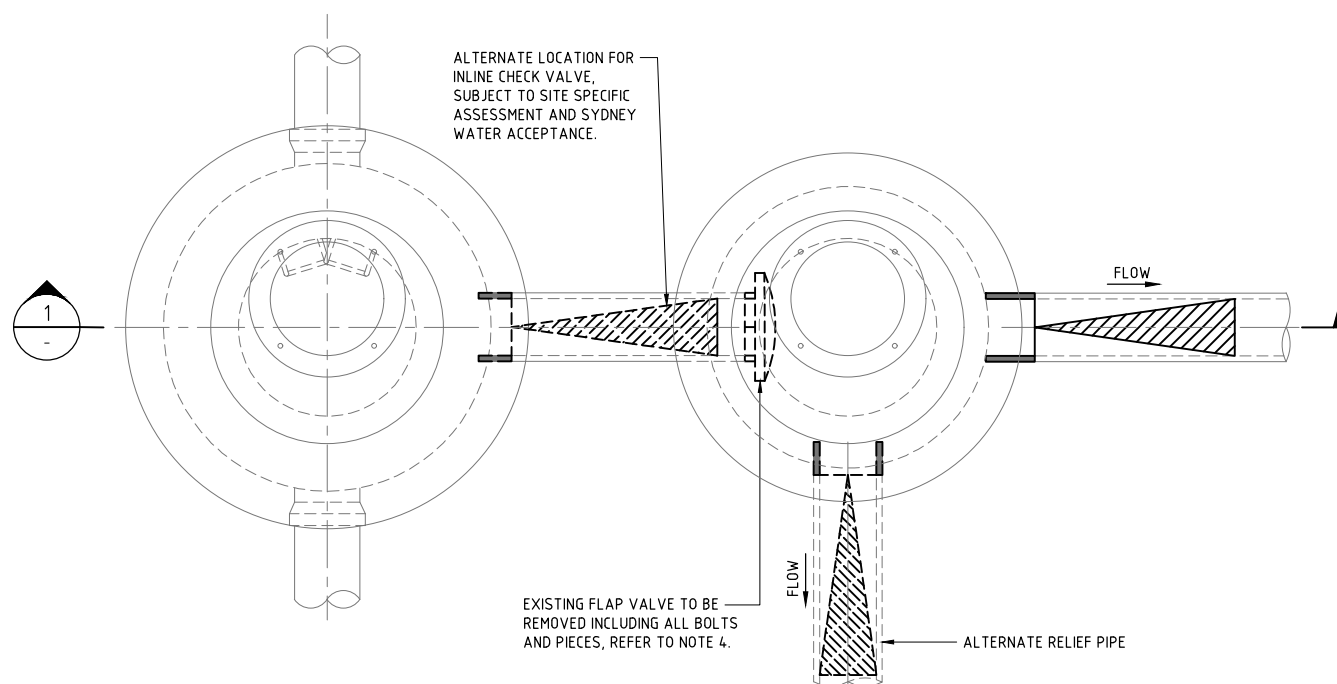
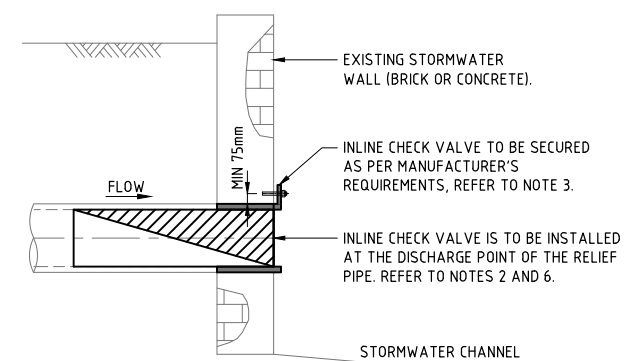
RECTANGULAR CHAMBER		
INLINE CHECK VALVE DN	INTERNAL WIDTH	INTERNAL LENGTH
≤450	1050	1000
CIRCULAR CHAMBER		
INLINE CHECK VALVE DN	INTERNAL DIAMETER	
≤450	1200	

- EXISTING BENCHING MAY NEED TO BE MODIFIED IN ORDER TO INSTALL THE INLINE CHECK VALVE.
- ARRANGEMENT 4C IN THIS DTC DRAWING IS ONLY TO BE USED WHERE THE RELIEF PIPE IS REASONABLY SQUARE (NOT LESS THAN 80 DEGREES IN ANY DIRECTION) TO THE EXISTING STORMWATER CHANNEL WALL AT THE DISCHARGE POINT. NO MODIFICATION WILL THEREFORE BE REQUIRED FOR THE STORMWATER WALL.
- FOR DN375 AND DN450 SEWERS, ALL INTERNAL SURFACES (EXCLUDING BENCHING) OF EXISTING MAINTENANCE HOLES SHALL BE PROVIDED WITH A CAC PROTECTIVE COATING IN ACCORDANCE WITH WSA 201. FOR DN150 - DN300 SEWERS, ALL INTERNAL SURFACES (EXCLUDING BENCHING) OF EXISTING MAINTENANCE HOLES AT THE DISCHARGE OF PUMPED FLOWS AND THE NEXT TWO MAINTENANCE HOLES DOWNSTREAM OF A PUMPED DISCHARGE SHALL BE PROVIDED WITH A CAC PROTECTIVE COATING IN ACCORDANCE WITH WSA 201.



EXISTING SEWER MAINTENANCE HOLE

EXISTING GAS CHECK CHAMBER

ARRANGEMENT 4A - SECTION 1
SCALE 1:20ARRANGEMENT 4B - INSTALLATION OF AN INLINE CHECK VALVE IN AN EXISTING OR NEW SEWER MAINTENANCE HOLE - ELEVATION
SCALE 1:20ARRANGEMENT 4A - INSTALLATION OF AN INLINE CHECK VALVE IN AN EXISTING GAS CHECK CHAMBER - PLAN
SCALE 1:20ARRANGEMENT 4C - INSTALLATION OF AN INLINE CHECK VALVE AT THE DISCHARGE POINT OF THE RELIEF PIPE INTO AN OPEN STORMWATER CHANNEL - ELEVATION
SCALE 1:20
Sydney
WATER

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APPROVED

 DINESH DINESHHARAN
 MANAGER - ENGINEERING

ENGINEERING & TECHNICAL SUPPORT

 A
 LETTER

ORIGINAL ISSUE

DETAILS OF ISSUE / AMENDMENT

 D.D. 14/09/21
 APP'D DATE

DEEMED TO COMPLY DRAWINGS

EMERGENCY RELIEF STRUCTURE
ARRANGEMENT 4A/B/C - INLINE CHECK VALVE
GA & SECTIONS
DTC
2407

 ISSUE DATE
A 14/09/21