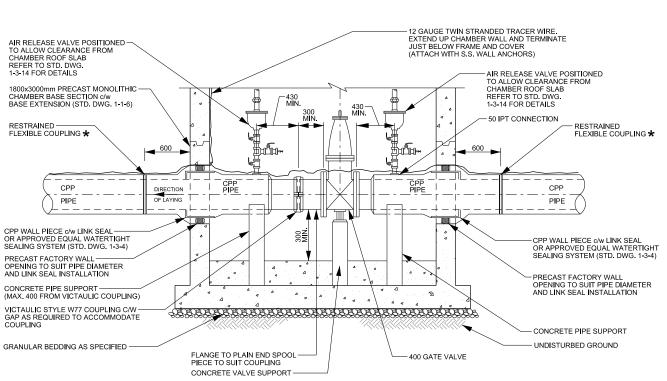


- NOTE: 1) MINIMUM CHAMBER SIZE TO BE 1800x3000mm.
 - 2) DEPTH OF COVER OVER WATERMAINS AT VALVE CHAMBERS TO BE MINIMUM 1.9m.
 WATERMAIN PROFILE DESIGN TO ACCOUNT FOR ADDITIONAL 0.2m DEPTH REQUIRED AT
 CHAMBERS OVER AND ABOVE THE MINIMUM 1.7m REQUIRED FOR STANDARD PIPE INSTALLATION.
 - 3) 400 DIAMETER GATE VALVES TO HAVE NON-RISING STEMS.
 - 4) CHAMBER TOP SLAB OPENINGS TO BE CO-ORDINATED WITH VALVE ACCESS HATCHES, VALVE BOX AND SLEEVE EXTENSIONS AND MAN ACCESS FRAME AND COVERS.
 - 5) CHAMBER LOCATIONS AND ELEVATIONS TO BE CO-ORDINATED WITH DEPTHS OF CURB & GUTTER LOCATIONS AND ROAD ELEVATION CHANGE DUE TO CROSS-FALL FROM ROAD CENTRELINE. PROVIDE MINIMUM DEPTH OF 350mm FROM FINAL GRADE TO TOP OF ACCESS RISER AND CAP (CAP FOR VALVE REMOVAL) AS SHOWN.
 - 6) SHOP DRAWING SUBMISSIONS ARE REQUIRED FOR ALL CHAMBERS (AS PER STD. DWG. 1-1-0).
 CONTRACTOR TO FIELD VERIFY AND PROVIDE ALL CHAMBER ELEVATIONS REQUIRED INCLUDING FINAL GRADE AND PIPE INVERT AT ACTUAL CHAMBER LOCATIONS
 - REFER TO CONTRACT DESIGN DRAWINGS FOR REQUIRED VALVE OPTIONS AT EACH PROJECT-SPECIFIC VALVE CHAMBER.

ACCESS RISER AND CAP FOR -

REMOVAL OF GATE VALVE

(STD. DWG. 1-1-6)



VALVE BOX & SLEEVE -FOR GATE VALVE - VENT PIPE AND CONCRETE SUPPORT PIER AS SHOWN ON STD DWG. 1-3-12 FRAME & COVER-APPROVED ADJUSTMENT UNITS-(STD. DWG. 1-1-6) CORE DRILL OPENING TO SUIT VENT AND LINK SEAL INSTALLATION FACTORY CAST COLLAR TO SUIT ACCESS OPENING AND ADJUSTMENT UNITS -VENT PIPE ON 2.0% SLOPE c/w FLEXIBLE COUPLING AND BENDS AS REQUIRED DEPTH OF COVER TO PIPE OBVERT AT VALVE CHAMBERS TO BE MIN. 1900mm INTERIOR CHAMBER INSULATION (STD. DWG. 1-1-6) - DEPTH VARIES AS PER CONTRACT DESIGN DWGS. (MIN. 950mm FROM PIPE OBVERT TO UNDERSIDE OF CHAMBER TOP SLAB) MINIMUM 2000mm UNLESS STIPULATED ON CONTRACT DESIGN DRAWINGS PRECAST MONOLITHIC CHAMBER TOP SECTION - AIR RELEASE VALVE POSITIONED TO ALLOW CLEARANCE FROM CHAMBER ROOF SLAB 400 GATE VALVE (NOT IN SECTION AT AIR VALVE) INTERIOR DEPTH VARIES AS— PER CONTRACT DESIGN DWGS. (MIN. 2050mm FROM RAISED SUMP FLOOR TO UNDERSIDE OF CHAMBER TOP SLAB) REFER TO STD. DWG 1-3-14 FOR DETAILS PRECAST MONOLITHIC CHAMBER BASE SECTION SUMP c/w FRAME AND GRATE (STD. DWG. 1-1-8) GRANULAR BEDDING AS SPECIFIED NOTE: PROVIDE VALVE STEM EXTENSIONS WHERE REQUIRED UNDISTURBED GROUND (STD. DWG. 1-2-4) — CONCRETE PIPE SUPPORT

SECTION B - B

NOTES

- 1. ALL VALVES TO BE RESILIENT SEAT TO AWWA C509, FUSION BONDED EPOXY (FBE) SHOP COAT FINISH ON INTERIOR AND EXTERIOR OF VALVE TO AWWA C550. INTERIOR COATING TO BE FBE ANSI/NSF 61 APPROVED.
- 2. INTERIOR OF ALL STEEL (NOT STAINLESS STEEL) PIPE SHALL BE LIQUID EPOXY COATED TO AWWA C210 AND BE ANSI/NSF 61 APPROVED. ALL EXTERIOR SURFACES SHALL BE LIQUID EPOXY COATED TO AWWA C210.
- 3. ALL THREADED PIPE, FITTINGS, VALVES AND APPURTENANCES MUST BE STAINLESS STEEL 304L SCHEDULE 40 TO ASTM A776. STAINLESS STEEL BALL VALVES TO BE LEVER OPERATED.

SECTION A - A

- 4. PROVIDE ALL FLANGED OUTLETS, IPT's, AIR RELEASE OR VACUUM VALVES, DRAIN VALVES AND LINE VALVES AS SHOWN ON CONSTRUCTION DRAWINGS.
- 5. AIR VALVE TO BE LOCATED WITHIN CHAMBER AS DICTATED BY PIPE GRADIENT.
- 6. REFER TO STD. DWG. 1-2-6 FOR TYPICAL VALVE AND PIPE SUPPORT DETAILS. PROVIDE CONCRETE PIPE SUPPORTS WITHIN A MAXIMUM DISTANCE OF ONE PIPE DIAMETER FROM ALL VICTAULIC COUPLINGS.
- 7. ALL PIPING, FITTINGS, VALVES, APPURTENANCES AND MECHANICAL RESTRAINTS TO BE c/w DENSO PASTE, DENSO MASTIC AND DENSO TAPE OR APPROVED EQUAL, APPLIED TO MANUFACTURER'S RECOMMENDATIONS.

Region of Peel working with you

★ ACCEPTABLE COUPLINGS FOR THIS APPLICATION:

3. LOKFAST (HANSON/MUNRO) 4. HOLDFAST (HANSON/MUNRO) 5. HARNESS CLAMP (HANSON/MUNRO)

. VICTAULIC W77 . TANDEM RESTRAINED M11 STYLE COUPLING INSTALLATION (ENGINEERED DRAWINGS TO BE SUPPLIED)

> PUBLIC WORKS STANDARD DRAWING

TYPICAL LINE VALVE CHAMBER FOR 400mm CONCRETE PRESSURE PIPE WITH ISOLATION VALVE AND COMBINATION AIR RELEASE OR VACUUM VALVE REV. DATE: APRIL 2014

APPROVED BY

A.P.

AINLEY GROUP

STD. DWG. NUMBER

1-3-19

N.T.S.