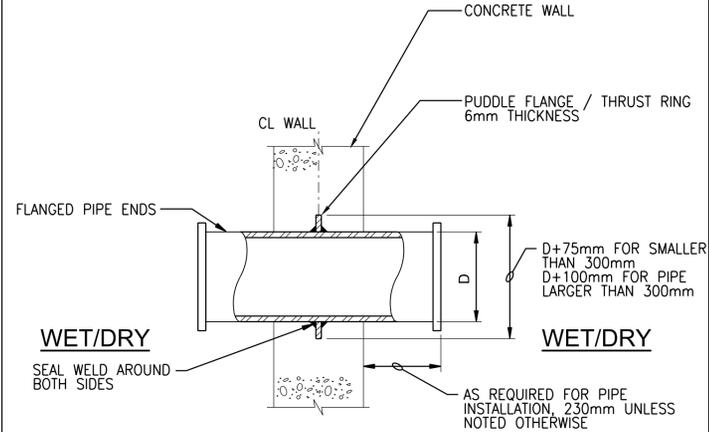


**NOTES:**

1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
2. DO NOT USE WHERE SUBJECT TO HYDROSTATIC PRESSURE. PAINT ENTIRE SLEEVE AND PUDDLE FLANGE AS SPECIFIED, PRIOR TO CONCRETE PLACEMENT.
3. ALL PIPE SUPPORT COMPONENTS SHALL BE DESIGNED AND FABRICATED FROM STAINLESS STEEL MATERIAL, UNLESS NOTED OTHERWISE.
4. SEE ALSO ARCHITECTURAL DRAWINGS
5. USE STAINLESS STEEL 316L PIPE SLEEVE FOR STAINLESS STEEL PIPES.
6. USE CARBON STEEL EPOXY COATED FOR ALL OTHERS PIPE MATERIALS.
7. REFER TO ARCHITECTURAL DETAILS FOR PENETRATION OF FINISHED WALL.

**PIPE SLEEVE THRU EXTERIOR CONCRETE WALLS ABOVE GRADE**  
NTS

4027-604

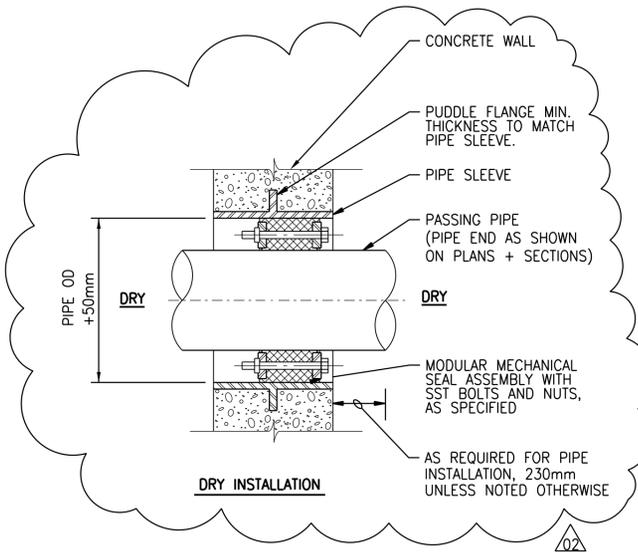


**NOTES:**

1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
2. PIPE MATERIAL 316L STAINLESS STEEL.
3. PROVIDE WATER TIGHT JOINT AS PERFORMANCE REQUIREMENT.

**WALL OR SLAB PIPE PENETRATION**  
NTS

4027-605

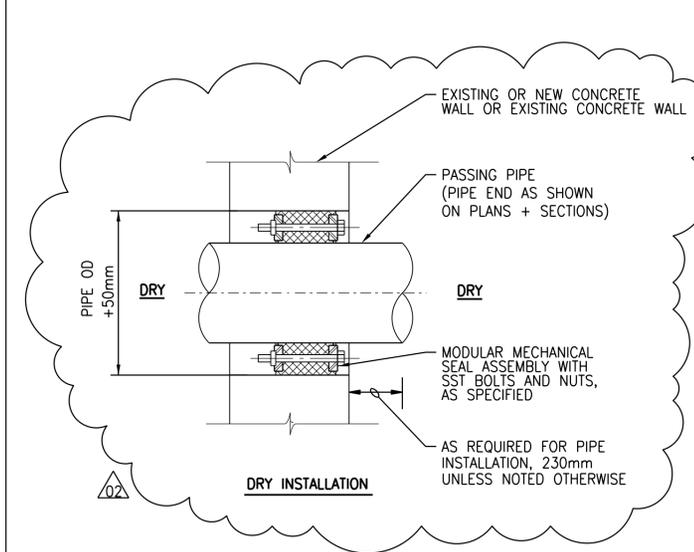


**NOTES:**

1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
2. COAT WALL SLEEVE WITH SPECIFIED PAINT SYSTEM PRIOR TO CONCRETE PLACEMENT.
3. ALL PIPE SUPPORT COMPONENTS SHALL BE DESIGNED AND FABRICATED FROM STAINLESS STEEL MATERIAL, UNLESS NOTED OTHERWISE.

**INTERIOR WALL PENETRATION SEAL**  
NTS

4027-607A

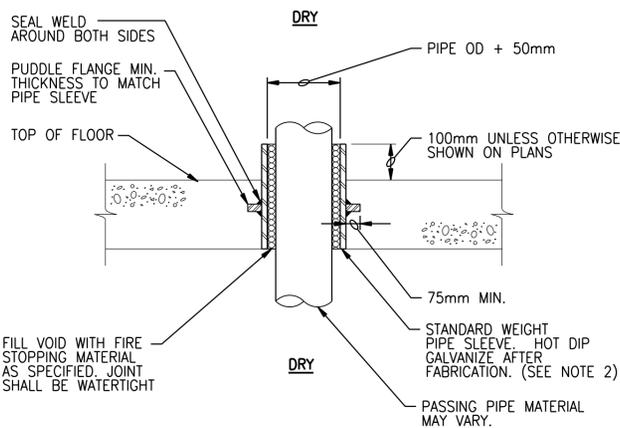


**NOTES:**

1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
2. ALL PIPE SUPPORT COMPONENTS SHALL BE DESIGNED AND FABRICATED FROM STAINLESS STEEL MATERIAL, UNLESS NOTED OTHERWISE.

**INTERIOR WALL PENETRATION SEAL**  
NTS

4027-607B

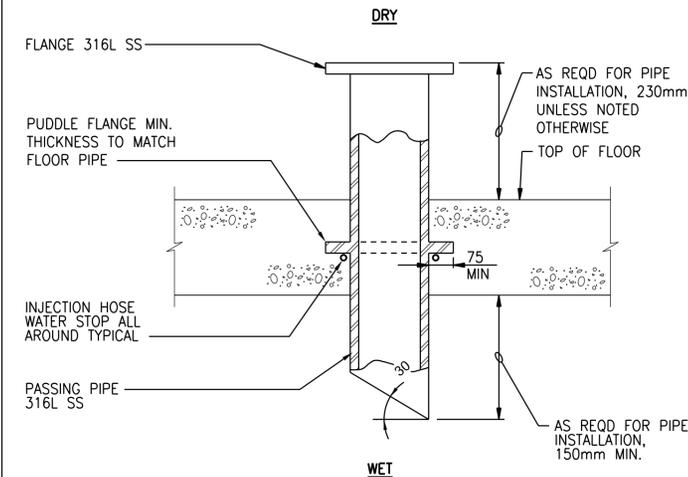


**NOTES:**

1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
2. COAT FLOOR SLEEVE WITH SPECIFIED PAINT SYSTEM PRIOR TO CONCRETE PLACEMENT.
3. ALL PIPE SUPPORT COMPONENTS SHALL BE DESIGNED FABRICATED FROM STAINLESS STEEL MATERIAL, UNLESS NOTED OTHERWISE.

**FLOOR SLEEVE (DRY)**  
NTS

4027-620

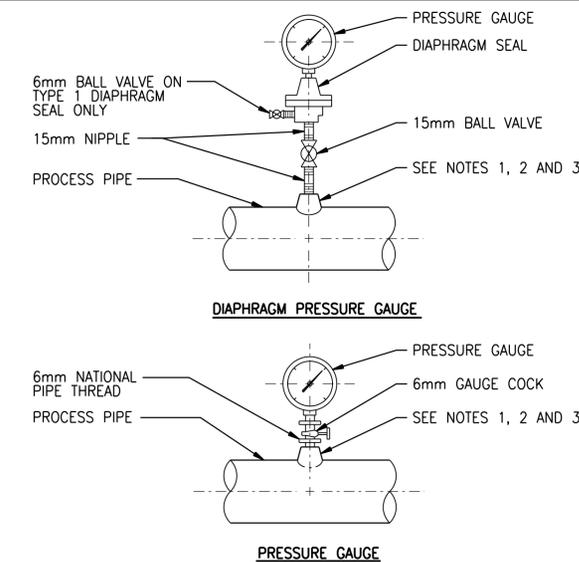


**NOTES:**

1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
2. ALL PIPE SUPPORT COMPONENTS SHALL BE DESIGNED FABRICATED FROM STAINLESS STEEL MATERIAL, UNLESS NOTED OTHERWISE.
3. PROVIDE WATER TIGHT JOINT AS PERFORMANCE REQUIREMENT
4. SEE ALSO INSTRUMENTATION DRAWINGS

**LEVEL INSTRUMENT FLOOR PIPE**  
NTS

4027-622

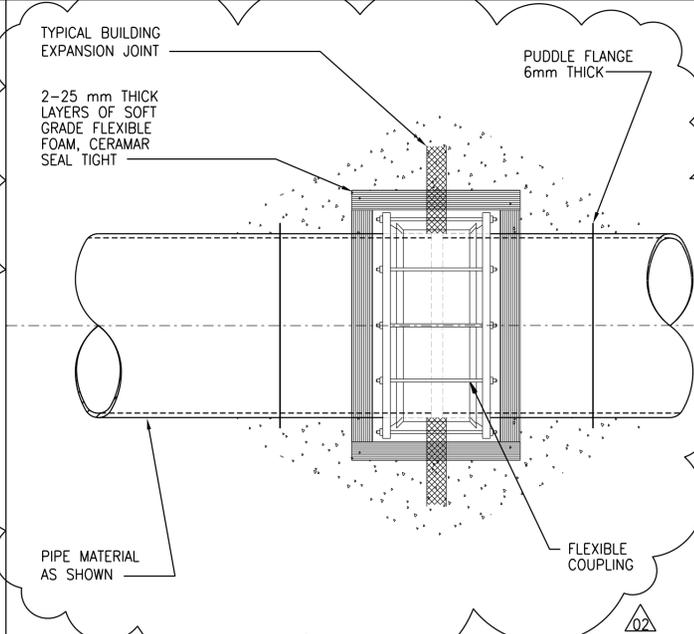


**NOTES:**

1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
2. FOR STEEL, GALVANISED STEEL, AND PVC 65mm AND SMALLER USE A BUSHING IN A TEE.
3. FOR DUCTILE IRON AND FIBERGLASS REINFORCED PLASTIC PIPE, ALL SIZES, USE PIPE SADDLE WITH BUSHING.
4. FOR STEEL AND STAINLESS STEEL PIPES 80mm AND LARGER, AND PRESSURE VESSELS, USE THRED-O-LET AS SHOWN.
5. PROVIDE SNUBBER FOR POSITIVE DISPLACEMENT PUMP INSTALLATIONS

**PRESSURE GAUGE MOUNTING**  
NTS

4027-690



**PIPE EXPANSION JOINT POURED IN PLACE WITH BUILDING SLAB**  
NTS

4027-623



NO.	REVISIONS	DATE	DESIGN	CHECK
02	ISSUED FOR TENDER - B.O. 899-2015	01/2016	B.C.	J.C.
01	ISSUED FOR CONSTRUCTION	10/2015	B.C.	J.C.
00	ISSUED FOR TENDER	08/2015	B.C.	J.C.

<b>CH2MHILL</b>		<b>KCS GROUP</b>	
SNC-LAVALIN		ENGINEER'S SEAL	
DESIGNED BY: F. ABSI	CHECKED BY: B. EDGAR		
DRAWN BY: B. COOPER	APPROVED BY: H.T. FREIHAMMER		
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: T. TURZAK		
DATE: 2015/08/13	DATE: 2016/01/29		
CONSULTANT NO.: 474248			

SOUTH END WATER POLLUTION CONTROL CENTRE SEWPC UPGRADING/EXPANSION PROJECT PROCESS STANDARD DETAILS (3)		
CITY DRAWING NUMBER 1-0102-PDTL-A004	SHEET 02	REV. SIZE A1