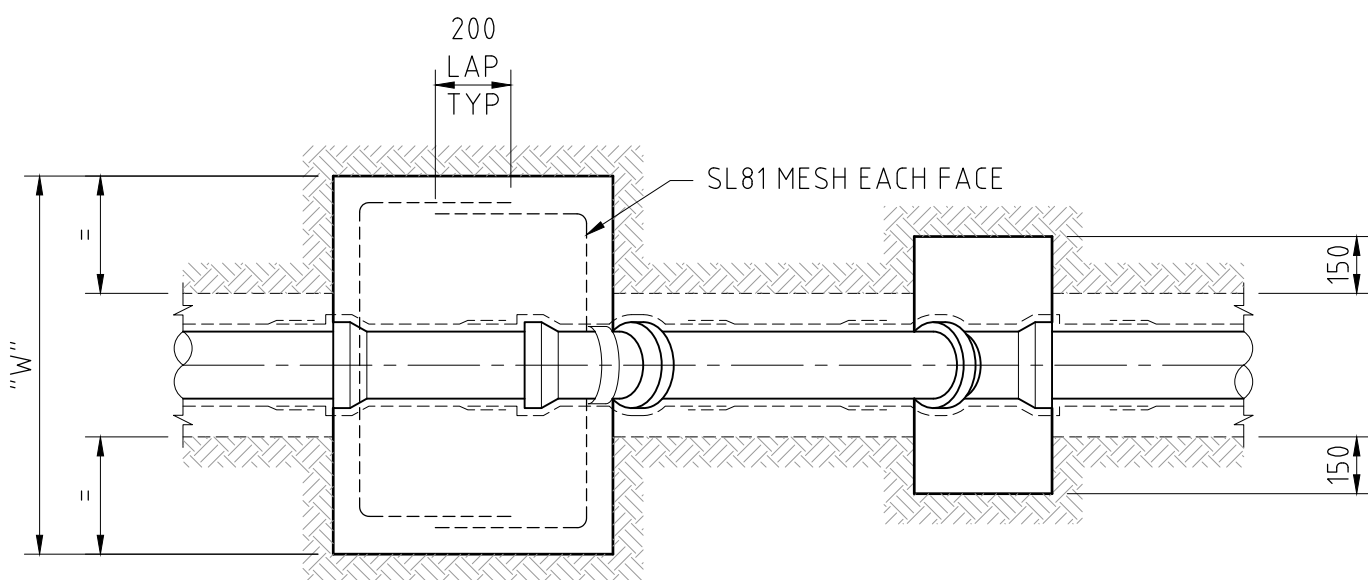
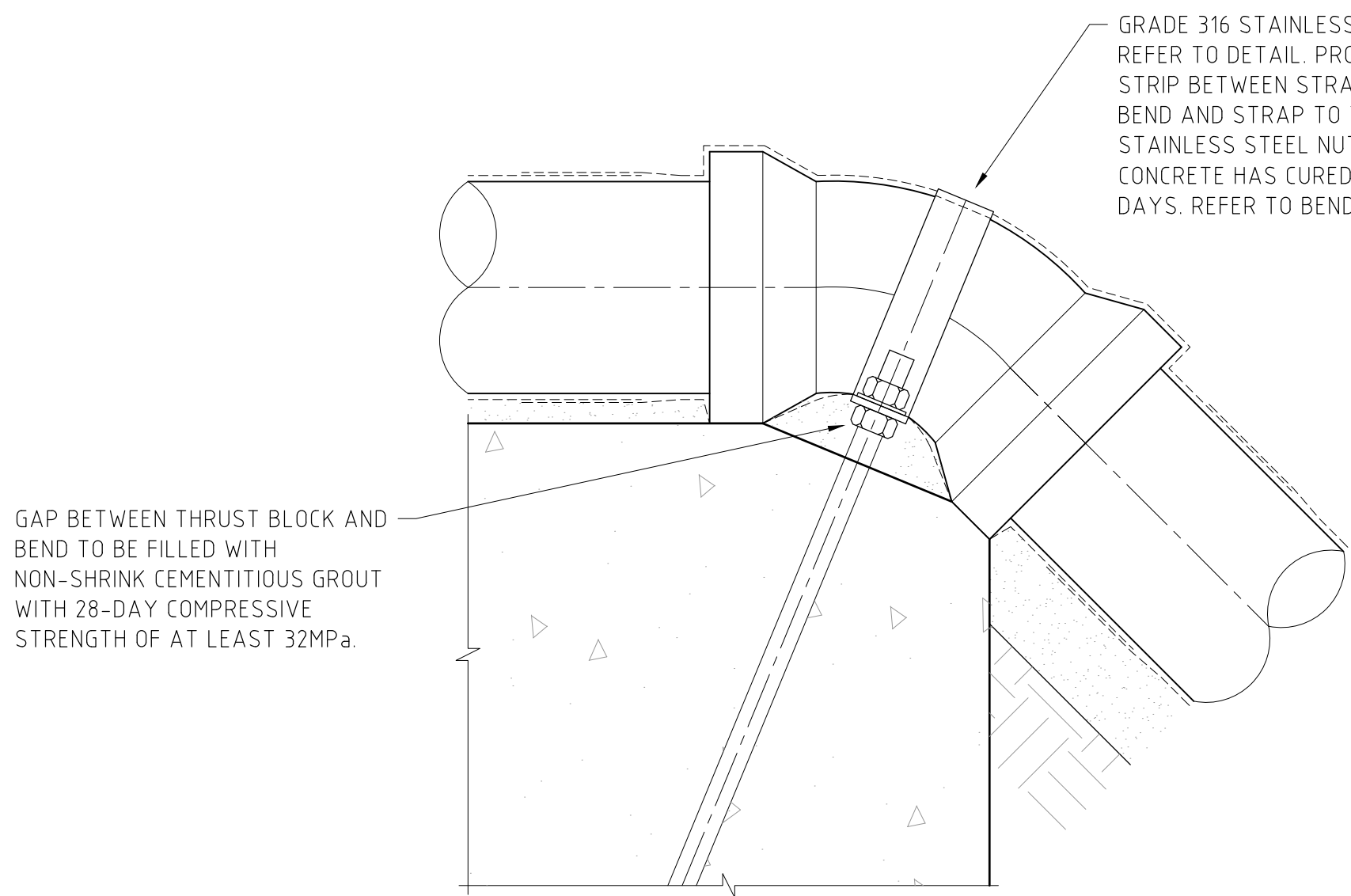


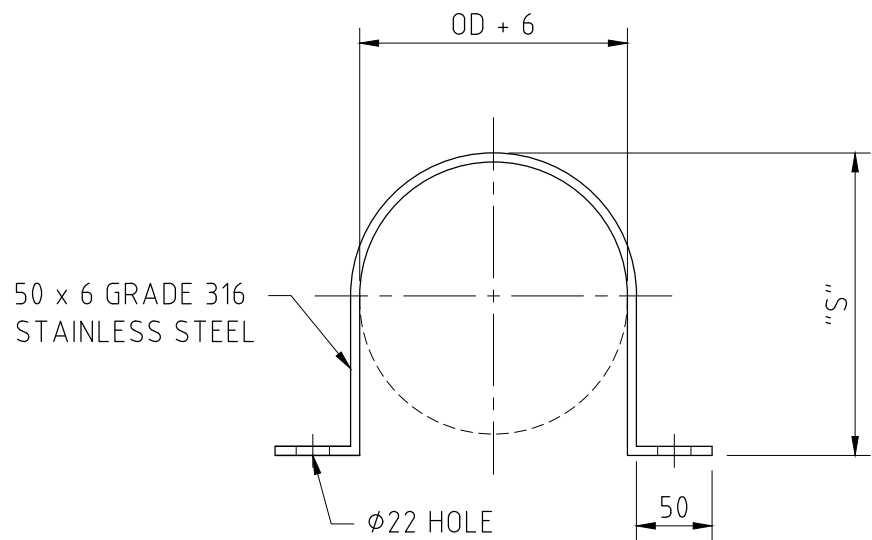
THRUST BLOCK FOR DN100 & DN150 VERTICAL BENDS  
ELEVATION  
SCALE 1:20



THRUST BLOCK FOR DN100 & DN150 VERTICAL BENDS  
PLAN  
SCALE 1:20

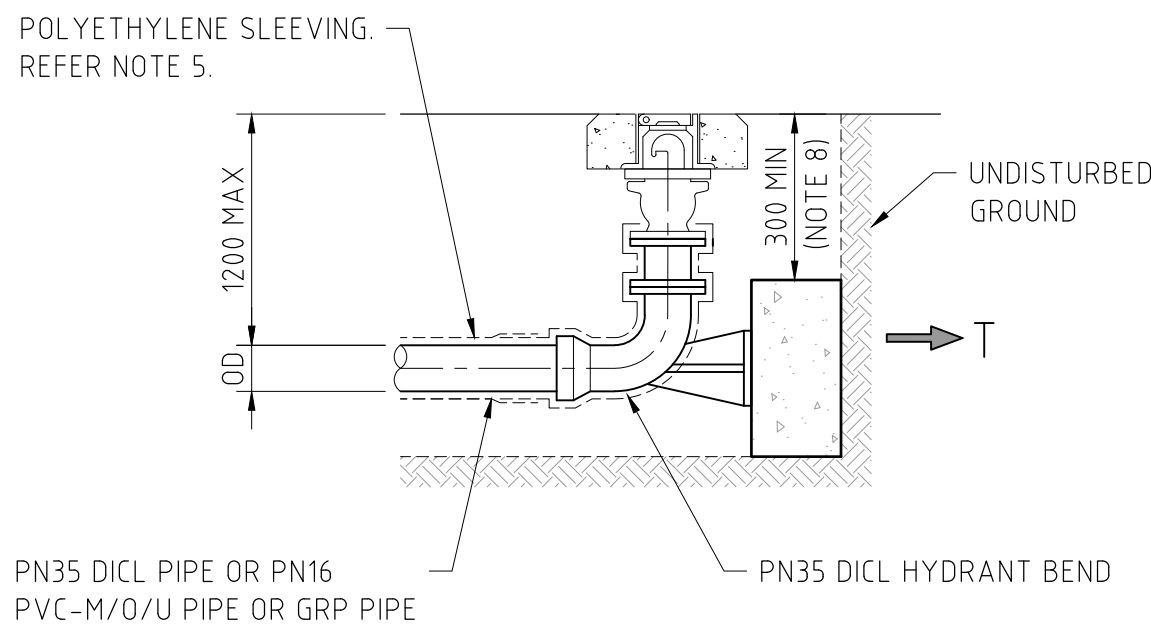


BEND INSTALLATION DETAIL  
SCALE 1:5

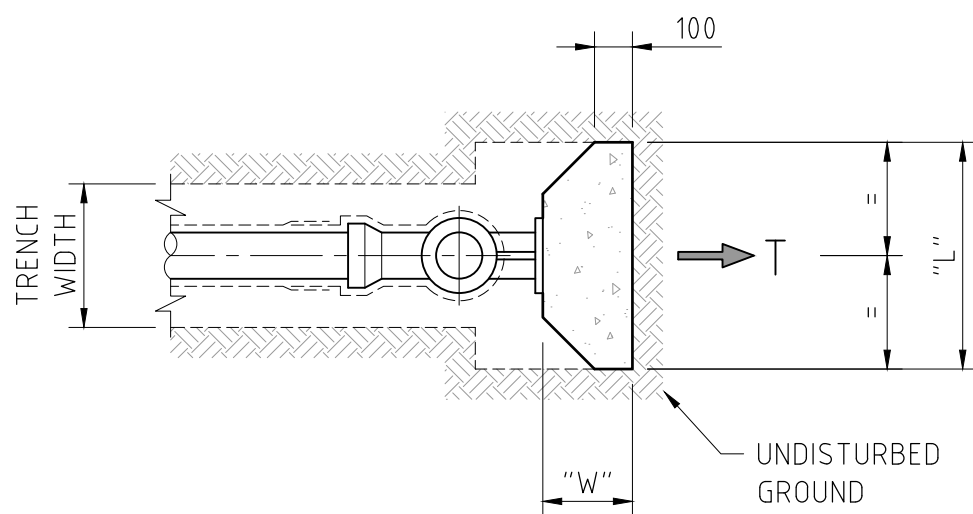


ANCHOR STRAP DETAIL  
SCALE 1:5

- NOTES:**
- THIS DRAWING MUST BE READ IN JUNCTION WITH DTC/1100.
  - THRUST BLOCKS DESIGNED TO WITHSTAND A DESIGN PRESSURE OF 120m AND A TEST PRESSURE OF 150m HEAD OF WATER.
  - CAST THE THRUST AREA OF ALL THRUST BLOCKS AGAINST A CLEAN FACE OF UNDISTURBED NATURAL SOIL. THRUST BLOCKS NOT TO INTERFERE WITH OTHER SERVICES.
  - DO NOT USE THRUST BLOCKS AS SPECIFIED IN THIS DRAWING IN SOILS WHERE THE NATURAL SOIL DOES NOT MEET THE MINIMUM REQUIREMENTS IN TABLE F6 ON DTC/1100.
  - DI PIPE AND FITTINGS TO BE WRAPPED IN PE SLEEVING. WHEN CONNECTING TO PVC OR GRP PIPE (WITHOUT PE SLEEVE), PE SLEEVE TO BE TAPED TO PIPE 500mm PAST JOINT TO DI CL SOCKET.
  - DO NOT APPLY ANY THRUST LOADS FOR AT LEAST 14 DAYS AFTER POURING CONCRETE.
  - REFER TO TABLE F6 ON DTC/1100 FOR SOIL TYPES.
  - MINIMUM COVER OF 750mm MUST BE PROVIDED WHERE A THRUST BLOCK SIZED FOR SOIL TYPE S2 IS INSTALLED IN THE CORRESPONDING SAND MATERIAL (REFER TO NOTE 7). ALTERNATIVELY, USE A THRUST BLOCK SIZED FOR SOIL TYPE S1.



THRUST BLOCK FOR HYDRANT BEND  
UNRESTRICTED AREAS - ELEVATION  
SCALE 1:20



THRUST BLOCK FOR HYDRANT BEND  
UNRESTRICTED AREAS - PLAN  
SCALE 1:20

MINIMUM THRUST BLOCK AREAS & DIMENSIONS FOR VERTICAL BENDS (m<sup>2</sup>)

DN	OD	VERTICAL BEND	DESIGN PRESSURE HEAD	TEST PRESSURE HEAD	THRUST T	H	L	W	S	CONCRETE VOLUME
(mm)	(mm)	(degrees)	(m)	(m)	(kN)	(mm)	(mm)	(mm)	(mm)	(m <sup>3</sup> )
100	122	11.25	120	150	3.4	700	250	1000	150	0.175
100	122	22.5	120	150	6.7	1000	350	1000	150	0.350
100	122	45	120	150	13.2	1100	600	1000	150	0.660
150	177	11.25	120	150	7.1	1200	300	1000	200	0.360
150	177	22.5	120	150	14.1	1550	500	1000	200	0.775
150	177	45	120	150	27.7	1650	800	1000	200	1.320

THRUST BLOCK AREAS & DIMENSIONS FOR HYDRANT BENDS (m<sup>2</sup>)

DN	OD	DESIGN PRESSURE HEAD	TEST PRESSURE HEAD	THRUST T	SOIL TYPE (REFER TO NOTE 7)	W	H	L	REQUIRED BEARING AREA
(mm)	(mm)	(m)	(m)	(kN)		(mm)	(mm)	(mm)	(m <sup>2</sup> )
100	122	120	150	17.2	S1	450	450	800	0.344
100	122	120	150	17.2	S2	250	450	450	0.172
100	122	120	150	17.2	S3	250	350	450	0.086
150	177	120	150	36.2	S1	750	500	1500	0.724
150	177	120	150	36.2	S2	400	500	750	0.362
150	177	120	150	36.2	S3	250	400	500	0.181