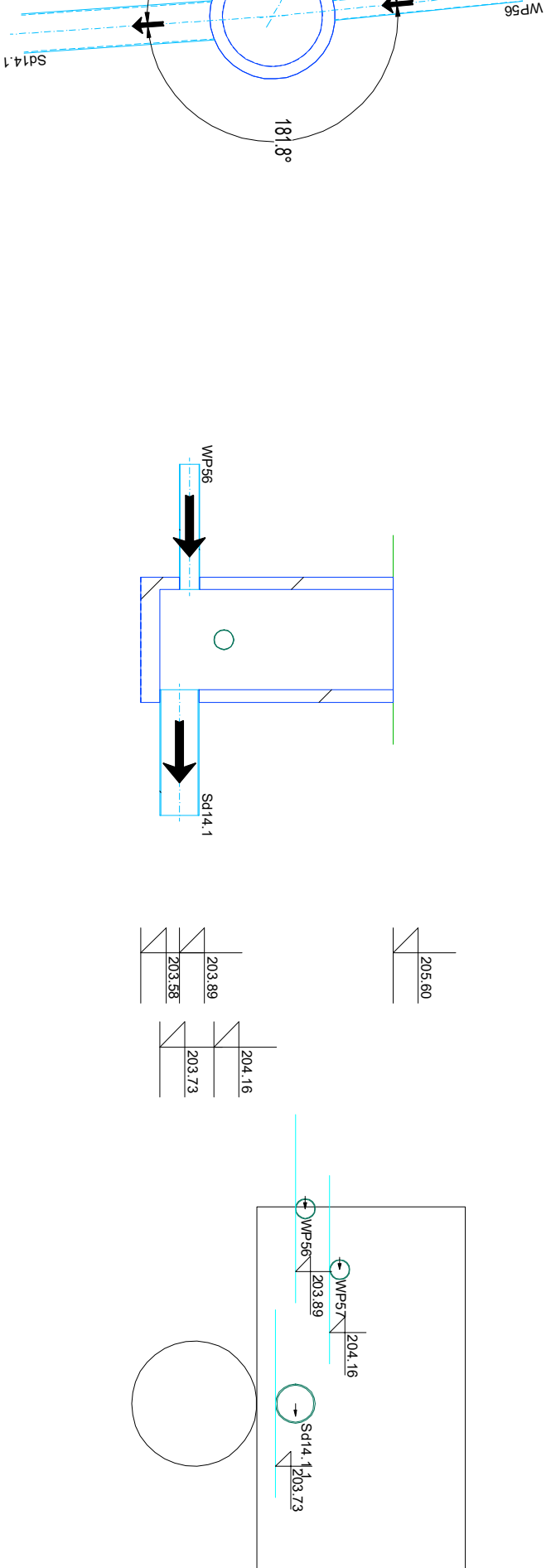
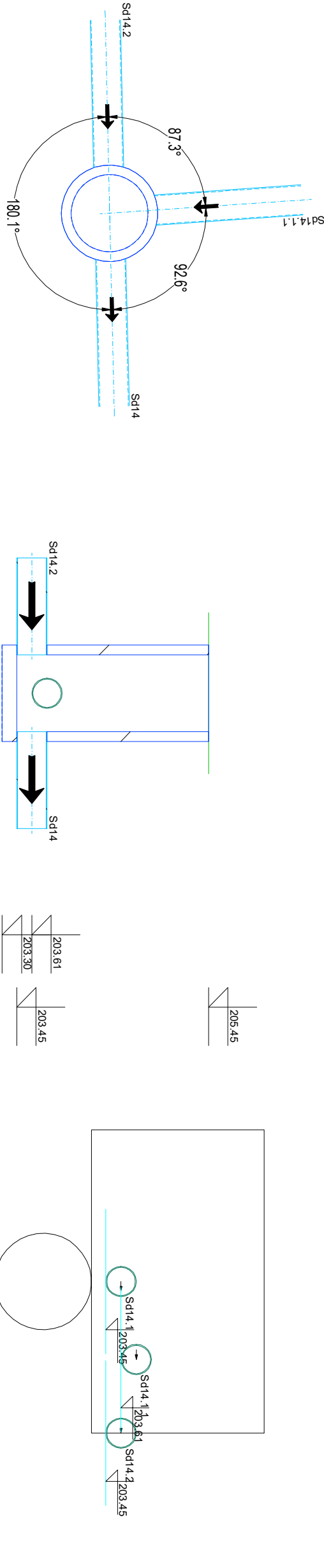


#### 4.1.1



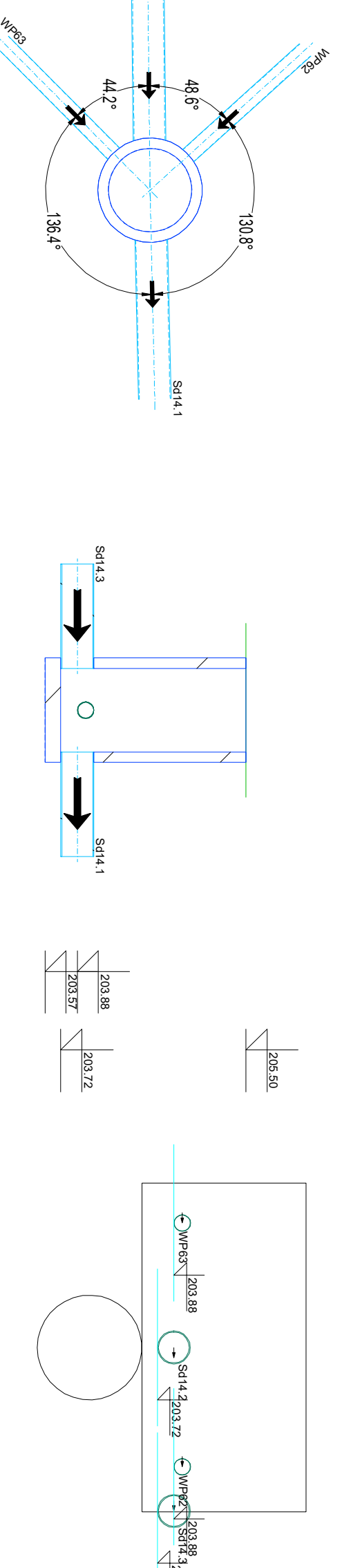
Revised DM (m)	Revised DM (m)	Revised DM (m)	Station	Revised DM (m)	Revised DM (m)	Check (m)
-	-	-	D1000	266.6	2017.5	0.06
-	-	-	D1050	266.4	2014.6	0.06
295	319	200.51	D1050	266.4	2014.6	0.06
312	360	200.48	D1000	266.7	2011.7	1.00
322	360	204.16	D1050	266.3	2013.0	1.00

zwa: Studnia Sd14.1

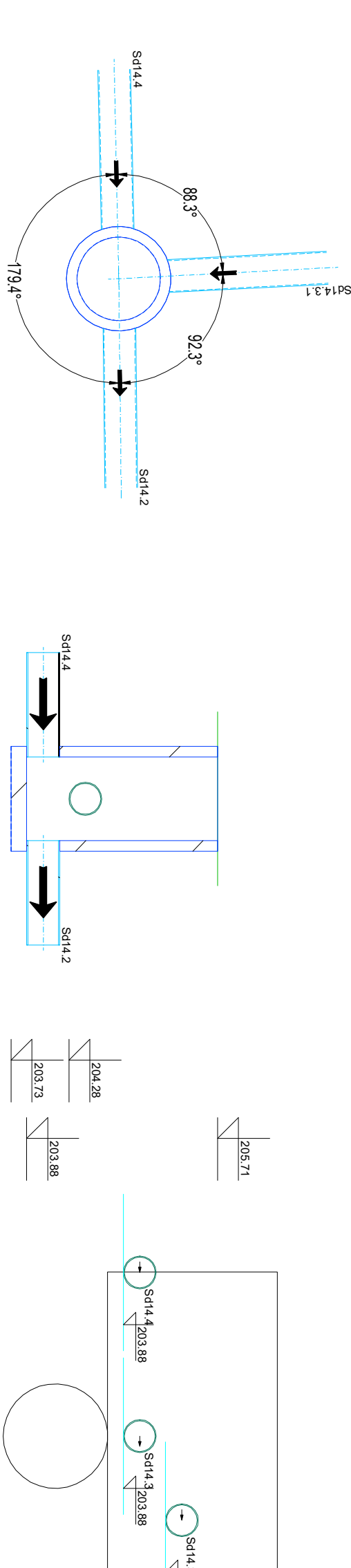


Reference	Reaction	Time (min)	Yield (%)	mp (°C)	IR (cm <sup>-1</sup> )	<sup>1</sup> H NMR (ppm)	Elemental analysis
141	Reaction 1	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
142	Reaction 2	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
143	Reaction 3	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
144	Reaction 4	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
145	Reaction 5	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
146	Reaction 6	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
147	Reaction 7	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
148	Reaction 8	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
149	Reaction 9	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
150	Reaction 10	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
151	Reaction 11	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
152	Reaction 12	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
153	Reaction 13	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
154	Reaction 14	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
155	Reaction 15	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
156	Reaction 16	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
157	Reaction 17	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
158	Reaction 18	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
159	Reaction 19	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
160	Reaction 20	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)
161	Reaction 21	200	95	203.4	1700	7.1, 6.8, 6.5, 6.2, 5.8, 5.5, 5.2, 4.8, 4.5, 4.2, 3.8, 3.5, 3.2, 2.8, 2.5, 2.2, 1.8, 1.5, 1.2, 0.8, 0.5	C <sub>24</sub> H <sub>18</sub> O <sub>4</sub> (378.4)

## a: Studnia Sd14.2

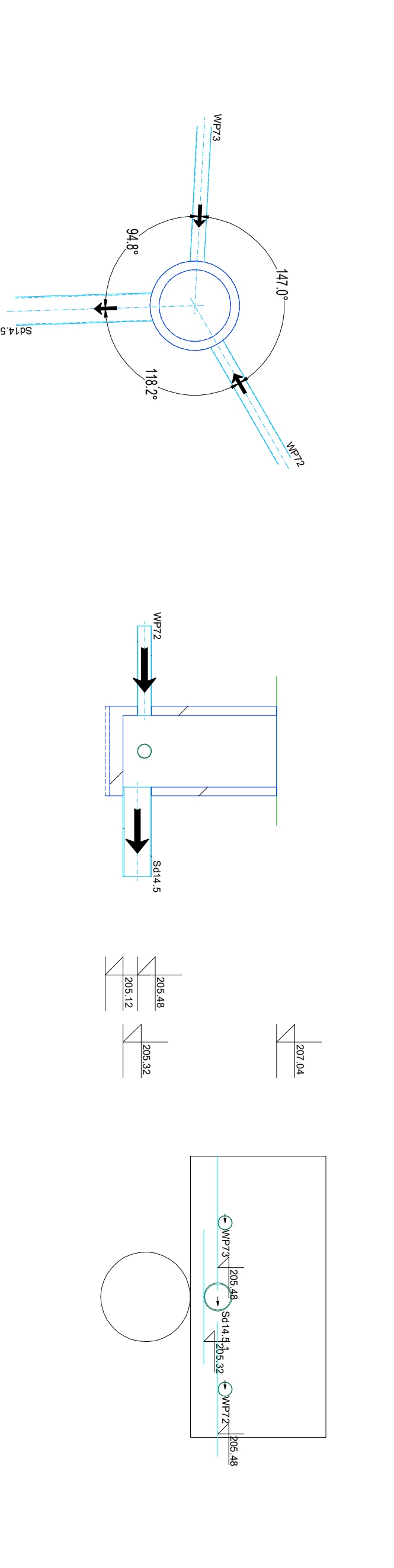
[illegible]

## Nazwa: Studnia Sd14.3



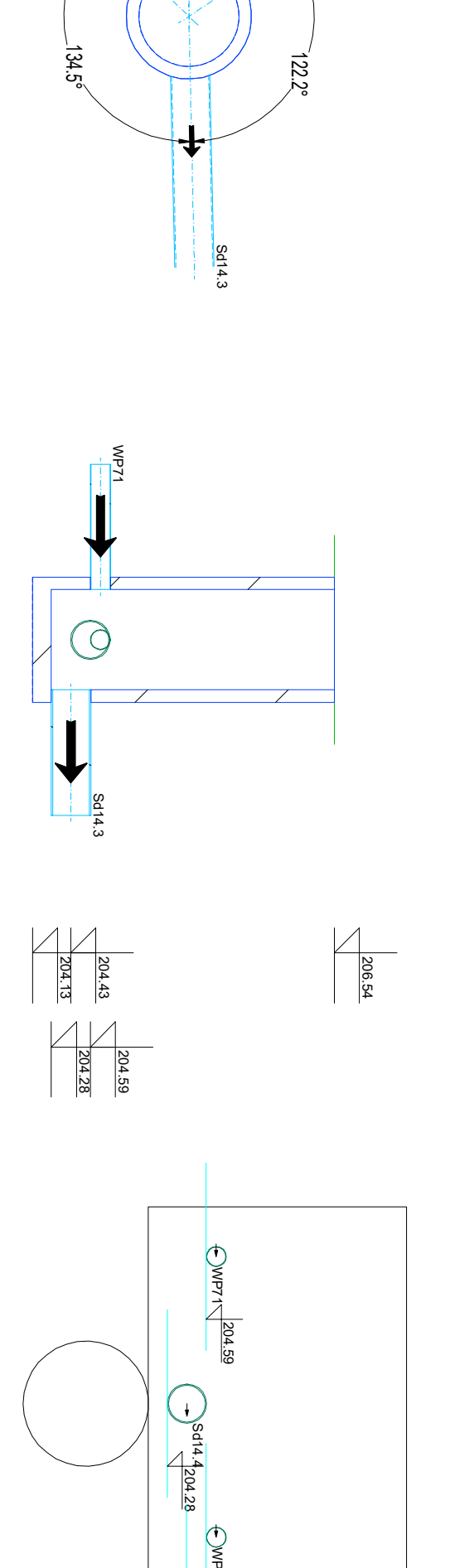
Week	Re. day (m. w.)	Revised Day (m.)	Revised Day (m.)	Re. day (m. w.)	Revised Day (m.)	Re. day (m. w.)
205.1	205.1	-	-	205.1	205.1	205.1
205.4	205.4	205	205.4	205.4	205.4	205.4
205.13	205.13	206	205.13	205.13	205.13	205.13
205.12	205.12	206	205	205.12	205.12	205.12

Nazwa: Studnia Sd14.5.1

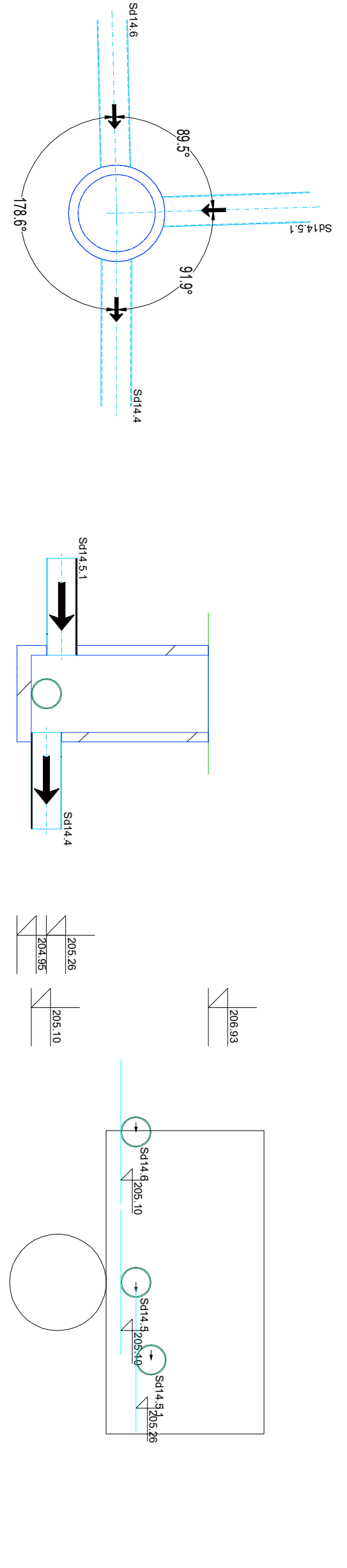


Wavelength	Re (m) [m]	Re (m) [m]	Re (m) [m]	Re (m) [m]	Re (m) [m]
5014.1	207.04	-	-	207.04	205.55
5044.2	206.93	205	315	209.26	204.93
5073	207.12	162	165	205.48	207.12
5097.5	206.95	152	165	205.45	206.95

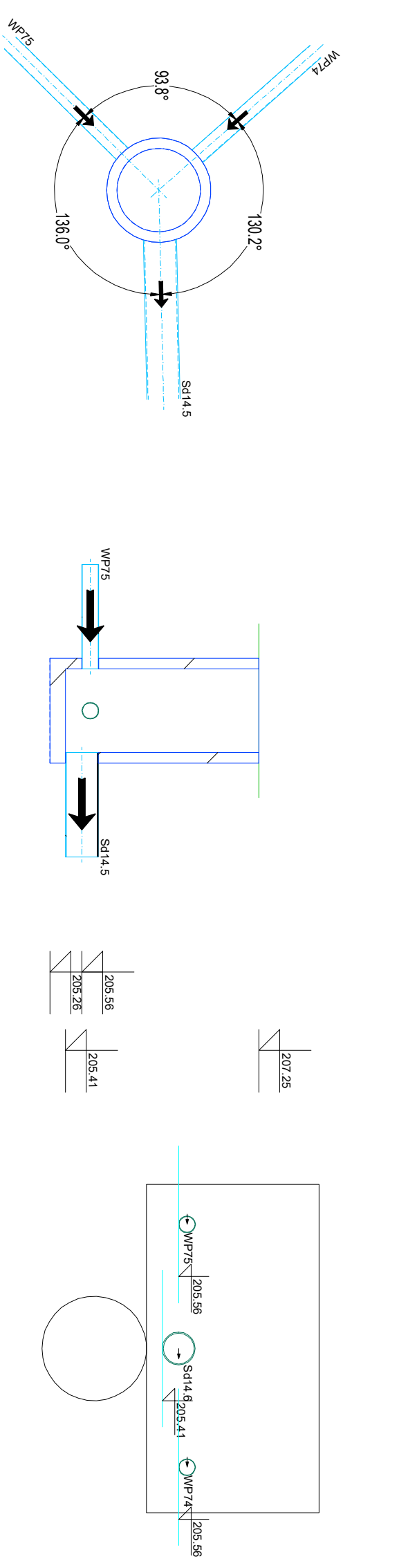
#### 4.4

[illegible]

## Zwa: Studnia Sd14.5

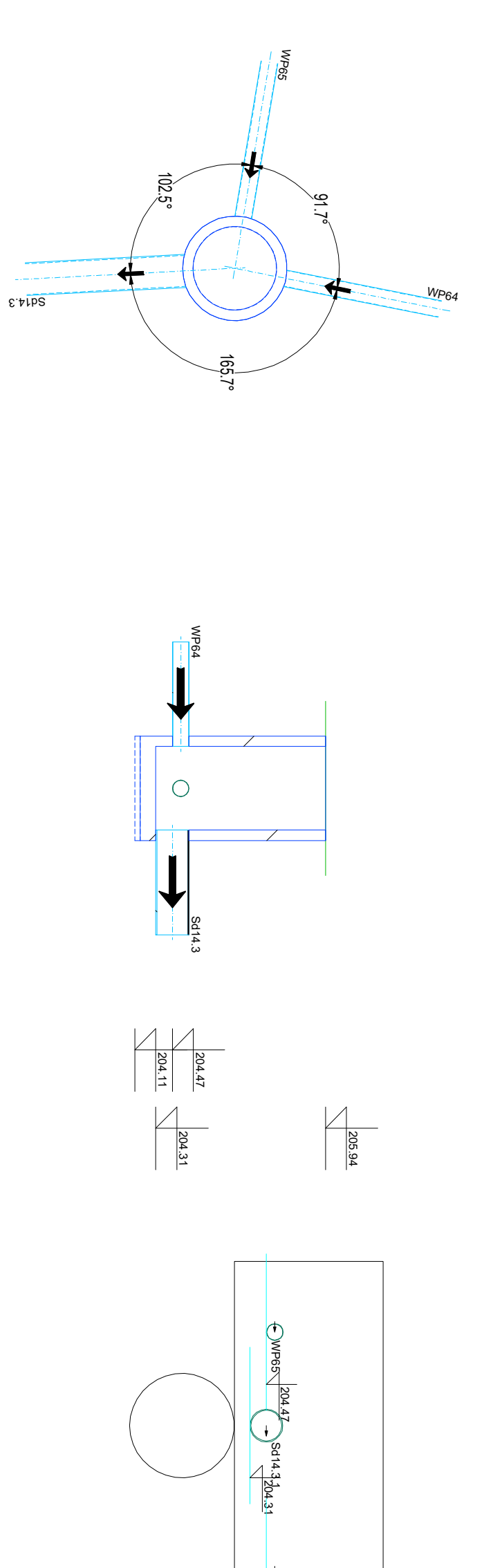
[illegible]

## a: Studnia Sd14.6



Year	Running (h/yr)	Staying (h/yr)	Staying (days/yr)	Stays	Re. stays (h/yr)	Re. stays (days/yr)	Outside (h)
2015	-	-	-	DN300	201.25	205.41	0.00
2016	246	315	254.10	DN350	204.50	205.75	0.00
2017	152	165	205.86	DN277	207.27	204.87	1.00
2018	160	160	206.66	DN400	207.96	204.88	1.00

## Nazwa: Studnia Sd14.3.1

[illegible][illegible]