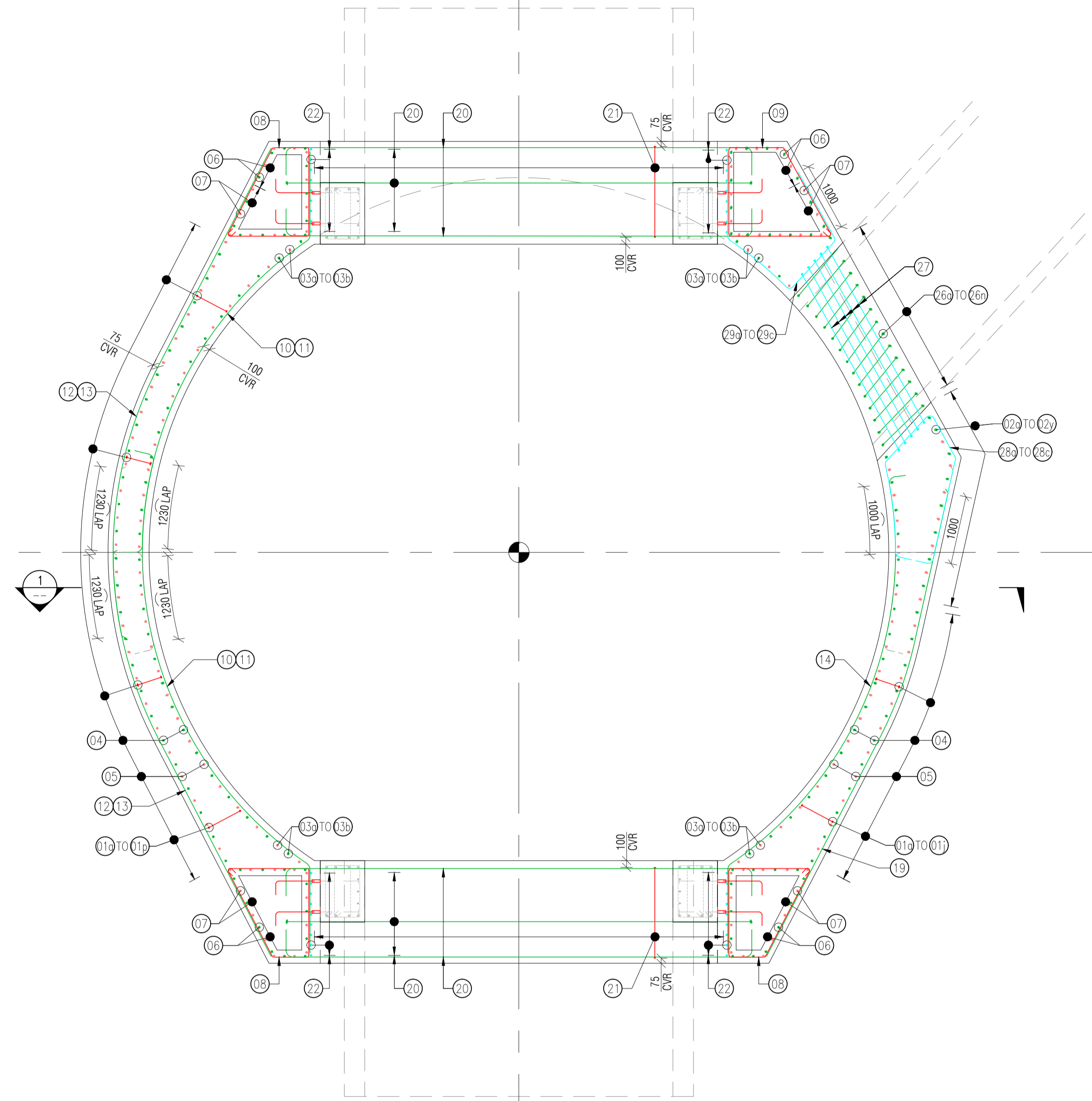


WORK SHAFT -COLLAR REINFORCING POUR-1 REINFORCEMENT LAYOUT
 PLAN AT LEVEL -13.97 OF MAIN TUNNEL
 SCALE 1:50



WORK SHAFT -COLLAR REINFORCING POUR-1 REINFORCEMENT LAYOUT
 PLAN AT LEVEL -12.77 OF CC2A ADIT
 SCALE 1:50

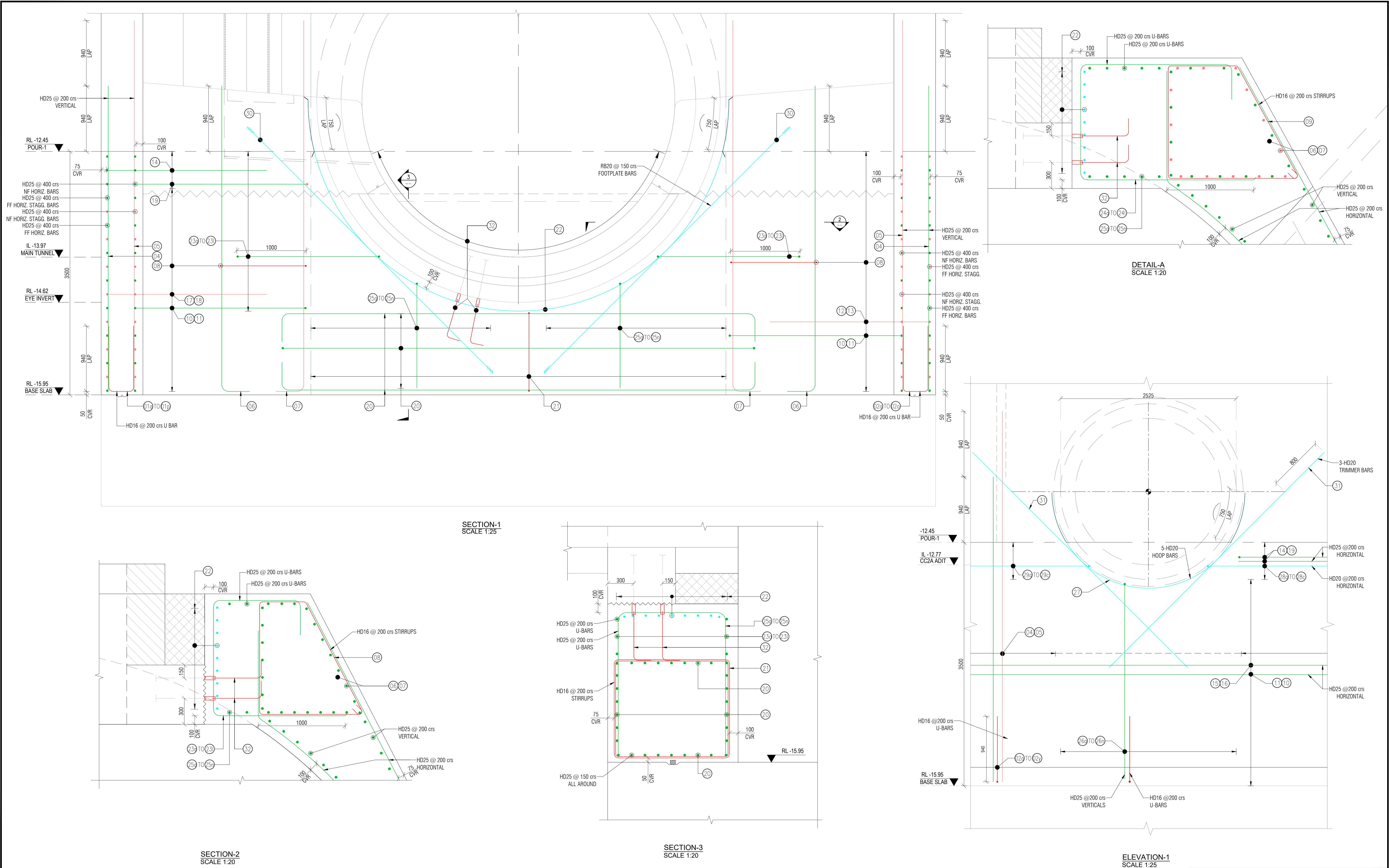
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0	13/02/24	ISSUED FOR APPROVAL		

DESIGNED	
DES. CHECKED	
DRAWN	AT
DWG. CHECKED	--
PROJECT LEADER	
INFRASTR APP'D	
	BY
	DATE



WORK SHAFT-COLLAR REINFORCING POUR-1 REINFORCEMENT LAYOUT

CAD FILE	DATE 13/02/2024
ORIGINAL SCALE A1	CONTRACT No. 6661
SCALE AS SHOWN	
REF. No.	ISSUE
DWG. No. ST-P1-01 (1 of 2)	0



ISSUE	DATE	AMENDMENT	BY	APPD.
0	13/02/24	ISSUED FOR APPROVAL		

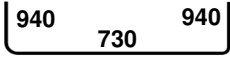
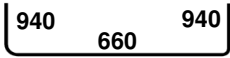
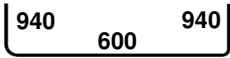








DESIGNED	DES. CHECKED	DRAWN	DWG. CHECKED	PROJECT LEADER	INFRAS'T'R APP'D
		AT	--		



WORK SHAFT-COLLAR REINFORCING POUR-1
REINFORCEMENT LAYOUT



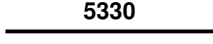
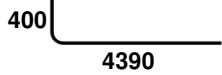
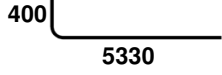
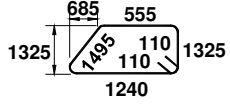
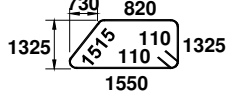
CAD FILE	DATE 13/02/2024
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SCALE AS SHOWN	
REF. No.	ISSUE
DWG. No. ST-P1-01 (2 of 2)	0


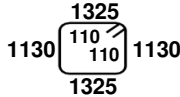

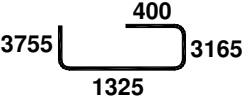
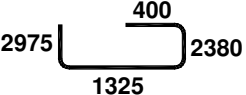
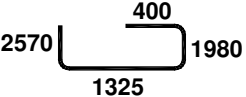
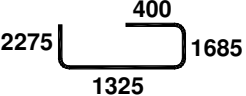
Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.	
Date : 13 / 02 / 2024					2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		D F C A A A A C A	
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.			
Drawing Number:			ST-P1-01		0			
BBS Nubmber:			BBS-ST-P1-01		0			
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG		
1a	HD16 U-BARS	HD 16	2	2546		8.04		
1b	HD16 U-BARS	HD 16	2	2476		7.82		
1c	HD16 U-BARS	HD 16	2	2416		7.63		
1d	HD16 U-BARS	HD 16	2	2356		7.44		
1e	HD16 U-BARS	HD 16	2	2311		7.30		
1f	HD16 U-BARS	HD 16	2	2266		7.15		
1g	HD16 U-BARS	HD 16	3	2236		10.59		
1h	HD16 U-BARS	HD 16	3	2206		10.45		
1i	HD16 U-BARS	HD 16	3	2186		10.35		
1j	HD16 U-BARS	HD 16	44	2171		150.79		
1k	HD16 U-BARS	HD 16	1	2276		3.59		

Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.
Date : 13 / 02 / 2024					2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		D F C A A A A C A
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P1-01		0		
BBS Nubmber:			BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
1l	HD16 U-BARS	HD 16	1	2316		3.66	
1m	HD16 U-BARS	HD 16	1	2366		3.73	
1n	HD16 U-BARS	HD 16	1	2421		3.82	
1o	HD16 U-BARS	HD 16	1	2486		3.92	
1p	HD16 U-BARS	HD 16	1	2556		4.03	
2a	HD16 U-BARS	HD 16	1	2211		3.49	
2b	HD16 U-BARS	HD 16	1	2226		3.51	
2c	HD16 U-BARS	HD 16	1	2256		3.56	
2d	HD16 U-BARS	HD 16	1	2296		3.62	
2e	HD16 U-BARS	HD 16	1	2341		3.70	
2f	HD16 U-BARS	HD 16	1	2391		3.77	

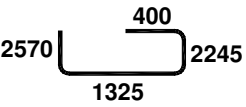
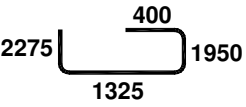
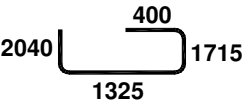
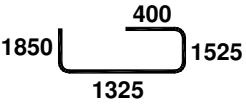
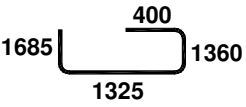

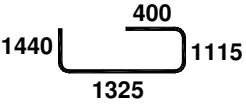
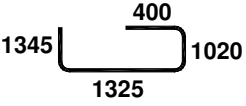
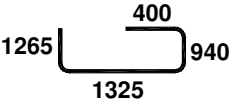
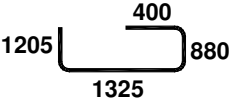
Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.	
Date : 13 / 02 / 2024					2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		D F C A A A A C A	
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.			
Drawing Number:			ST-P1-01		0			
BBS Nubmber:			BBS-ST-P1-01		0			
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG		
2g	HD16 U-BARS	HD 16	1	2446		3.86		
2h	HD16 U-BARS	HD 16	1	2516		3.97		
2i	HD16 U-BARS	HD 16	1	2581		4.07		
2j	HD16 U-BARS	HD 16	1	2656		4.19		
2k	HD16 U-BARS	HD 16	4	2736		17.28		
2l	HD16 U-BARS	HD 16	1	2696		4.26		
2m	HD16 U-BARS	HD 16	1	2656		4.19		
2n	HD16 U-BARS	HD 16	1	2621		4.14		
2o	HD16 U-BARS	HD 16	1	2596		4.10		
2p	HD16 U-BARS	HD 16	2	2576		8.13		
2q	HD16 U-BARS	HD 16	2	2556		8.07		


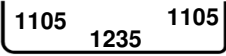








Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.
Date : 13 / 02 / 2024					2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		D F C A A A A C A
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P1-01		0		
BBS Nubmber:			BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
2r	HD16 U-BARS	HD 16	1	2566		4.05	
2s	HD16 U-BARS	HD 16	1	2586		4.08	
2t	HD16 U-BARS	HD 16	1	2601		4.11	
2u	HD16 U-BARS	HD 16	1	2616		4.13	
2v	HD16 U-BARS	HD 16	1	2646		4.18	
2w	HD16 U-BARS	HD 16	1	2681		4.23	
2x	HD16 U-BARS	HD 16	1	2721		4.30	
2y	HD16 U-BARS	HD 16	1	2761		4.36	
3a	HD25 @400 crs VERT	HD 25	6	4740		109.60	
3b	HD25 @400 crs VERT STAGG.	HD 25	8	5680		175.12	
4	HD25 @400 crs VERT	HD 25	89	4390		1505.74	

Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.
Date : 13 / 02 / 2024					2011822.002		D
					2011822.003		F
					2011822.004		C
					2011822.009		A
					2011822.010		A
					2011822.011		A
					2011822.012		A
					2011822.013		C
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P1-01		0		
BBS Nubmber:			BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
5	HD25 @400 crs VERT STAGG.	HD 25	85	5330		1745.99	
6	HD25 @400 crs 90° COG VERT. BARS	HD 25	53	4740		968.17	
7	HD25 @400 crs 90° COG VERT. STAGGERED BARS	HD 25	53	5680		1160.17	
8	HD16 @200 crs STIRRUPS	HD 16	54	4675		398.50	
9	HD16 @200 crs STIRRUPS	HD 16	18	5270		149.74	
10	HD25 @400 crs NF HORIZ. & STAGGERED BARS EF	HD 25	26	6880	REFER SKETCH SK-01	689.38	
11	HD25 @400 crs NF HORIZ. & STAGGERED BARS EF	HD 25	25	8305	REFER SKETCH SK-01	800.16	
12	HD25 @400 crs FF HORIZ. & STAGGERED BARS	HD 25	18	6410	REFER SKETCH SK-02	444.66	
13	HD25 @400 crs FF HORIZ. & STAGGERED BARS	HD 25	18	7640	REFER SKETCH SK-02	529.98	
14	HD25 @200 crs NF HORIZ. BARS AT CC2A ADIT	HD 25	3	7975	REFER SKETCH SK-03	92.20	
15	HD25 @400 crs FF HORIZ. BARS	HD 25	8	6630	REFER SKETCH SK-04	204.41	

Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.
Date : 13 / 02 / 2024					2011822.002		D
					2011822.003		F
					2011822.004		C
					2011822.009		A
					2011822.010		A
					2011822.011		A
					2011822.012		A
					2011822.013		C
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P1-01		0		
BBS Nubmber:			BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
16	HD25 @400 crs FF HORIZ. STAGGERED BARS	HD 25	7	7800	REFER SKETCH SK-04	210.42	
17	HD25 @400 crs FF HORIZ. BARS	HD 25	8	7655	REFER SKETCH SK-05	236.01	
18	HD25 @400 crs FF HORIZ. STAGGERED BARS	HD 25	7	6425	REFER SKETCH SK-05	173.33	
19	HD25 @400 crs FF HORIZ. BARS AT CC2A EDIT	HD 25	3	7315	REFER SKETCH SK-06	84.57	
20	HD25 @150 crs REINF.	HD 25	60	7500		1734.24	
21	HD16 @200 crs STIRRUPS	HD 16	60	4970		470.72	
22	HD20 @150 HOOP BARS AROUND MAIN TUNNEL	HD 20	18	9525		422.88	
23a	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	8495		98.22	
23b	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	6930		80.12	
23c	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	6125		70.81	
23d	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	5535		63.99	

Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.
Date : 13 / 02 / 2024					2011822.002		D
					2011822.003		F
					2011822.004		C
					2011822.009		A
					2011822.010		A
					2011822.011		A
					2011822.012		A
					2011822.013		C
2011822.021		A					
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P1-01		0		
BBS Nubmber:			BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
23e	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	5065		58.56	
23f	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	4675		54.05	
23g	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	4355		50.35	
23h	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	4085		47.23	
23i	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3865		44.69	
23j	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3675		42.49	
23k	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3515		40.64	
23l	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3395		39.25	
24a	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	8760		33.76	
24b	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	7200		27.75	

Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.
Date : 13 / 02 / 2024					2011822.002		D
					2011822.003		F
					2011822.004		C
					2011822.009		A
					2011822.010		A
					2011822.011		A
					2011822.012		A
					2011822.013		C
2011822.021		A					
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P1-01		0		
BBS Nubmber:			BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
24c	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	6390		24.63	
24d	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	5800		22.35	
24e	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	5330		20.54	
24f	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	4950		19.08	
24g	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	4620		17.80	
24h	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	4355		16.78	
24i	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	4130		15.92	
24j	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3940		15.18	
24k	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3780		14.57	
24l	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3660		14.11	

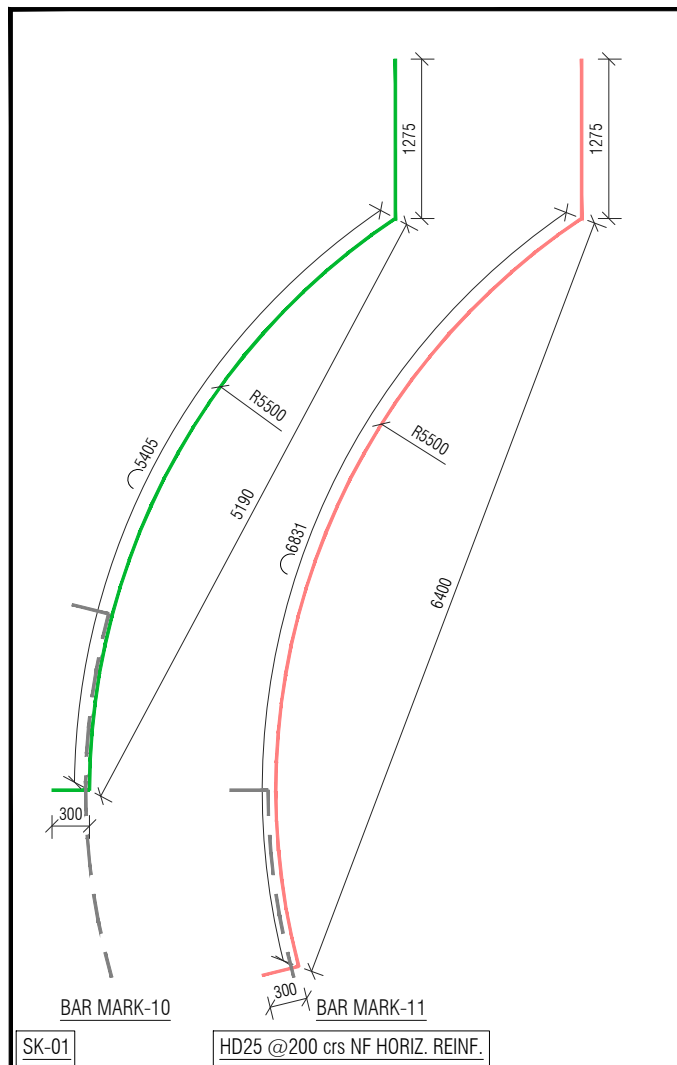
Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.
Date : 13 / 02 / 2024					2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		D F C A A A A C A
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P1-01		0		
BBS Nubmber:			BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
25a	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	3305		50.95	
25b	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	3345		51.56	
25c	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	3415		52.64	
25d	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	3515		54.19	
25e	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	3635		56.04	
25f	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	3795		58.50	
25g	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	3985		61.43	
25h	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	4215		64.98	
25i	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	4495		69.29	
25j	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	4825		74.38	

Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.
Date : 13 / 02 / 2024					2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		D F C A A A A C A
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P1-01		0		
BBS Nubmber:			BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
25k	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	5215		80.39	
25l	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	5695		87.79	
25m	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	6305		97.19	
25n	HD25 @200 crs VERT. U-BARS AROUND MAIN TUNNEL	HD 25	4	7145		110.14	
26a	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	7740		29.83	
26b	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	7155		27.57	
26c	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	6780		26.13	
26d	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	6510		25.09	
26e	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	6330		24.39	
26f	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	6220		23.97	
26g	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	6170		23.78	

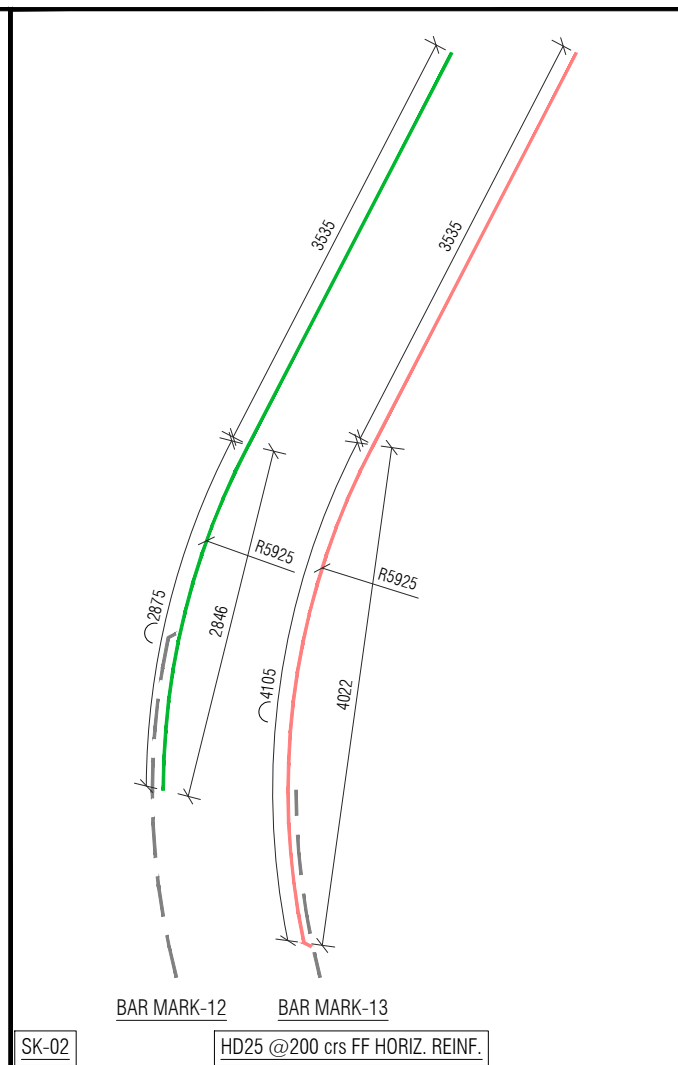
Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.
Date : 13 / 02 / 2024					2011822.002		D
					2011822.003		F
					2011822.004		C
					2011822.009		A
					2011822.010		A
					2011822.011		A
					2011822.012		A
					2011822.013		C
2011822.021		A					
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P1-01		0		
BBS Nubmber:			BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
26h	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	6190		23.86	
26i	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	6270		24.16	
26j	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	6400		24.66	
26k	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	6600		25.44	
26l	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	6900		26.59	
26m	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	7320		28.21	
26n	HD25 @200 crs U-BARS AT CC2A ADIT	HD 25	1	8010		30.87	
27	5 - HD20 BARS HOOP BARS	HD 20	5	4325		53.34	
28a	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	6525		16.09	
28b	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5915		14.59	

Project : Western springs steel for permanent Shaft lining lift					Contract Drawing		REV.
Date : 13 / 02 / 2024					2011822.002		D
					2011822.003		F
					2011822.004		C
					2011822.009		A
					2011822.010		A
					2011822.011		A
					2011822.012		A
					2011822.013		C
2011822.021		A					
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P1-01		0		
BBS Nubmber:			BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
28c	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5545		13.68	
29a	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5895		14.54	
29b	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5315		13.11	
29c	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	4965		12.25	
30	RB20 @ 150crs FOOTPLATE BARS	RB 20	36	5000		443.96	
31	3-HD20 TRIMMER BARS AT CC2A ADIT	HD 20	6	4375		64.74	
32	2 ROWS OF HD16 @250crs IMBMS BARS	HD 16	62	768		75.16	
		16	62				
					Total Weight		15666.01
NOTE: (1) All dimension lengths mentioned in the Shape are taken as out-to-out dimensions.							
<u>Summary Of Bars</u>							

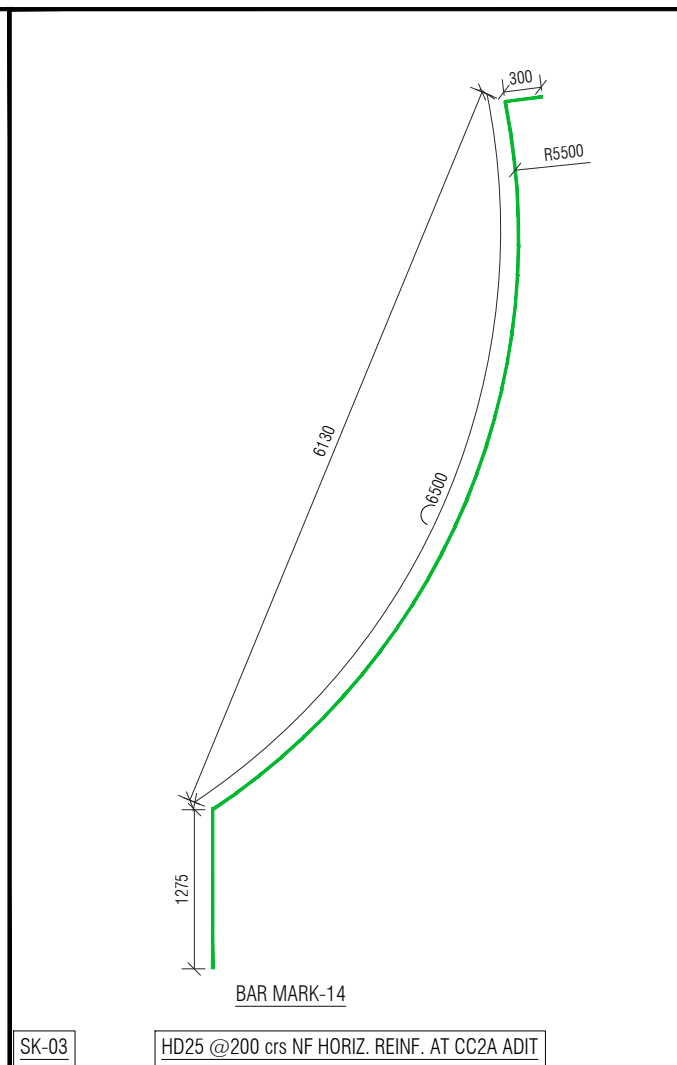
Project : Western springs steel for permanent Shaft lining lift				Contract Drawing		REV.
Date : 13 / 02 / 2024				2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		D F C A A A A C A
Drawing Description: WORK SHAFT POUR-1 REINFORCEMENT DETAILS				REV.		
Drawing Number:		ST-P1-01		0		
BBS Nubmber:		BBS-ST-P1-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG
	Size	Weight				
	10	0.00				
	12	0.00				
	16	1465.79				
	20	1069.18				
	25	13131.04				
	32	0.00				
	Total Weight	15666.01				



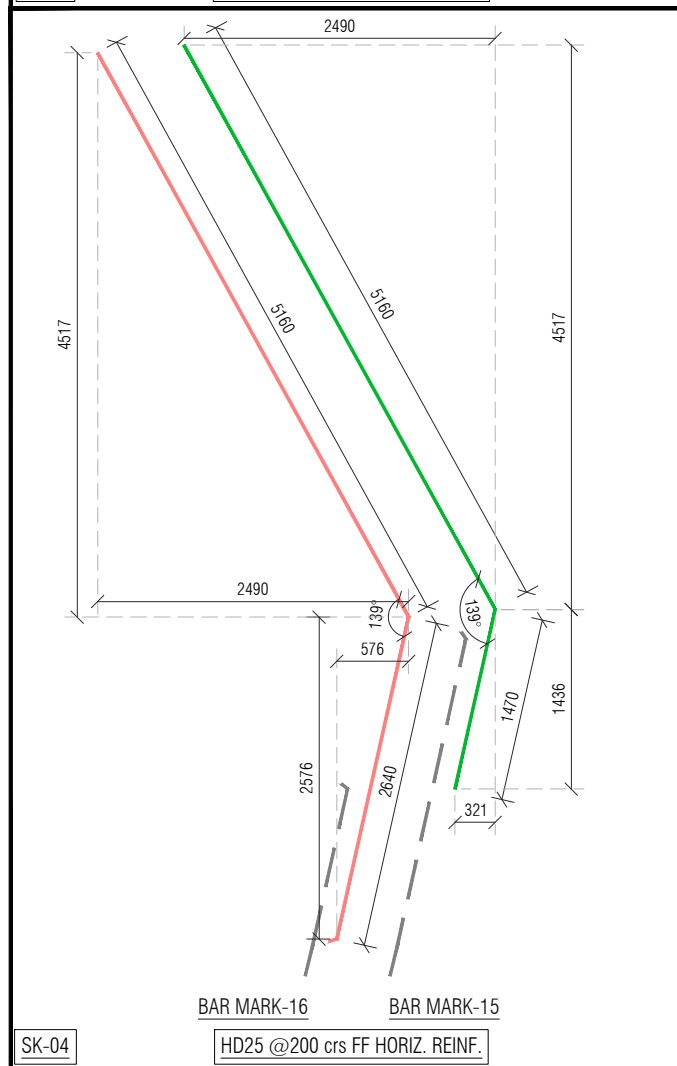
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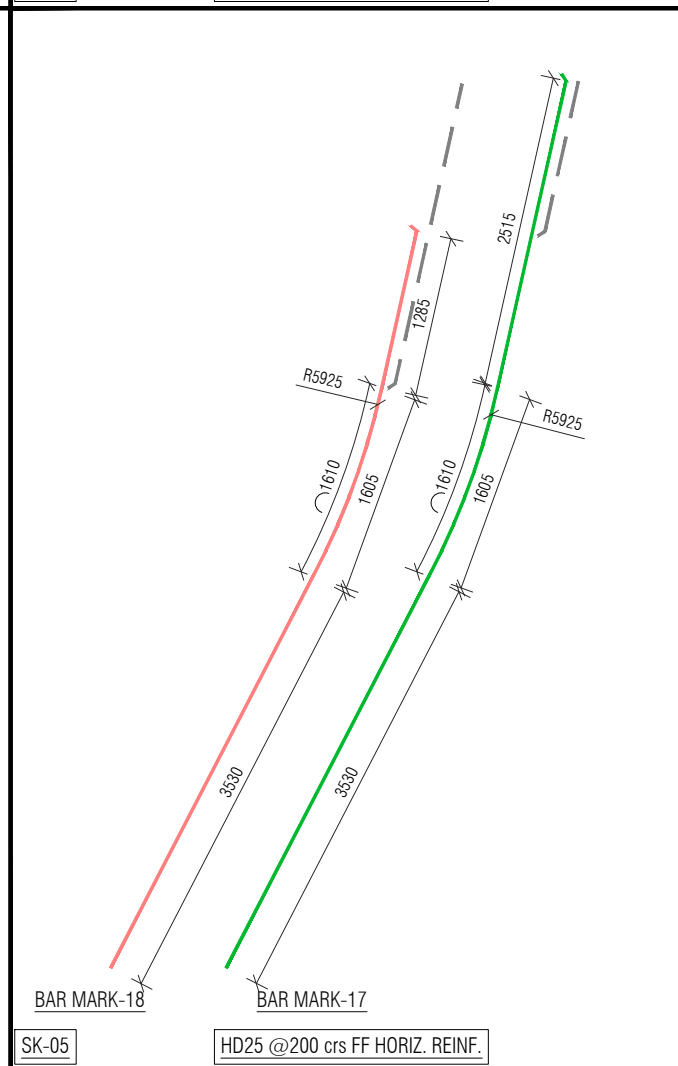
SK-02 HD25 @200 crs FF HORIZ. REINF.



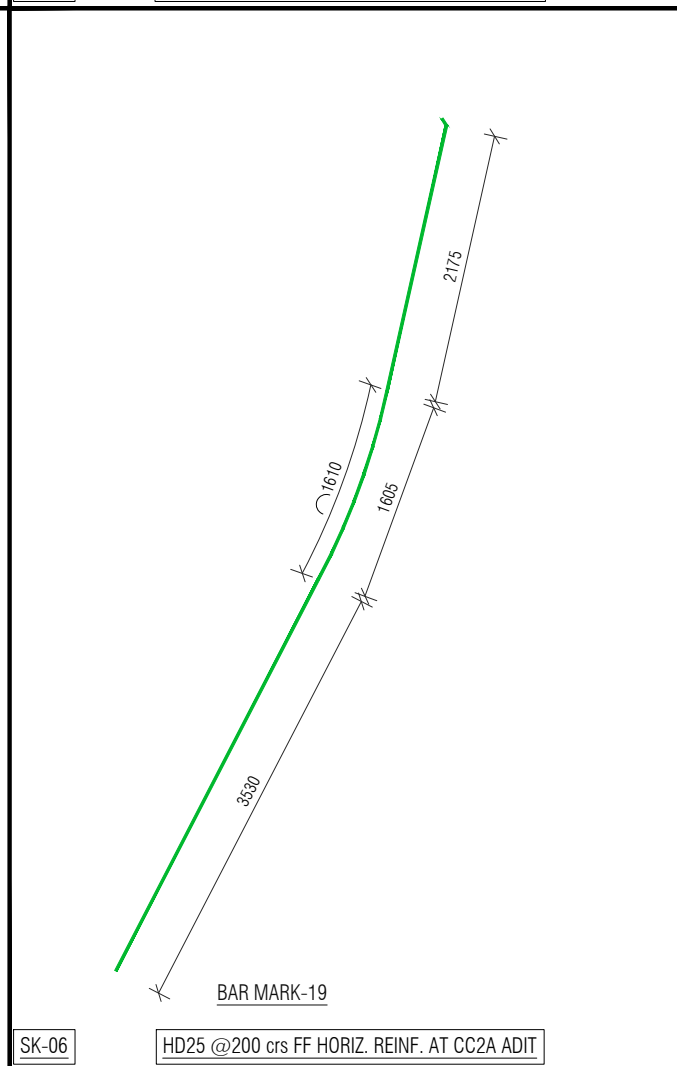
SK-03 HD25 @200 crs NF HORIZ. REINF. AT CC2A ADIT



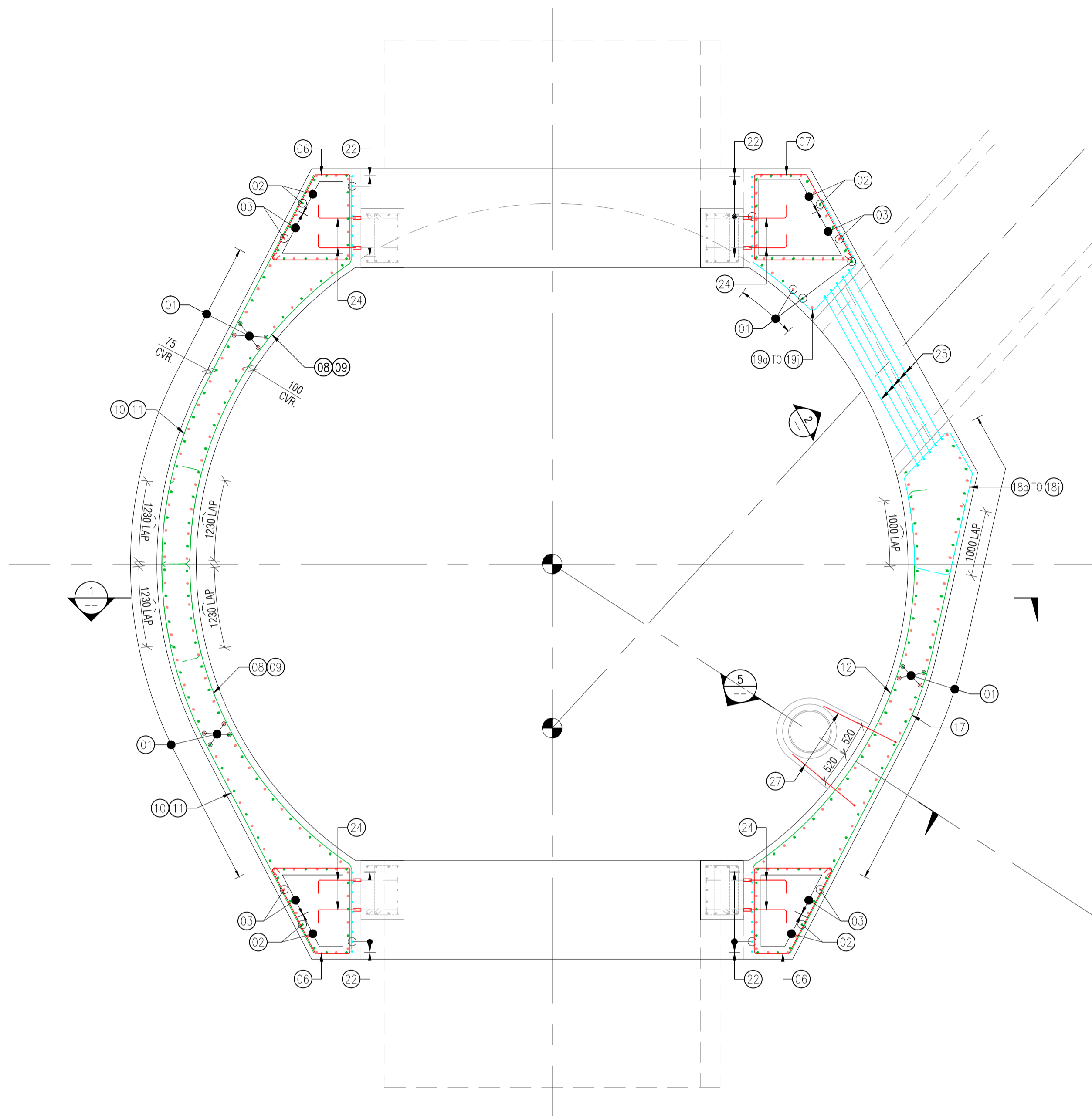
SK-04 HD25 @200 crs FF HORIZ. REINF.



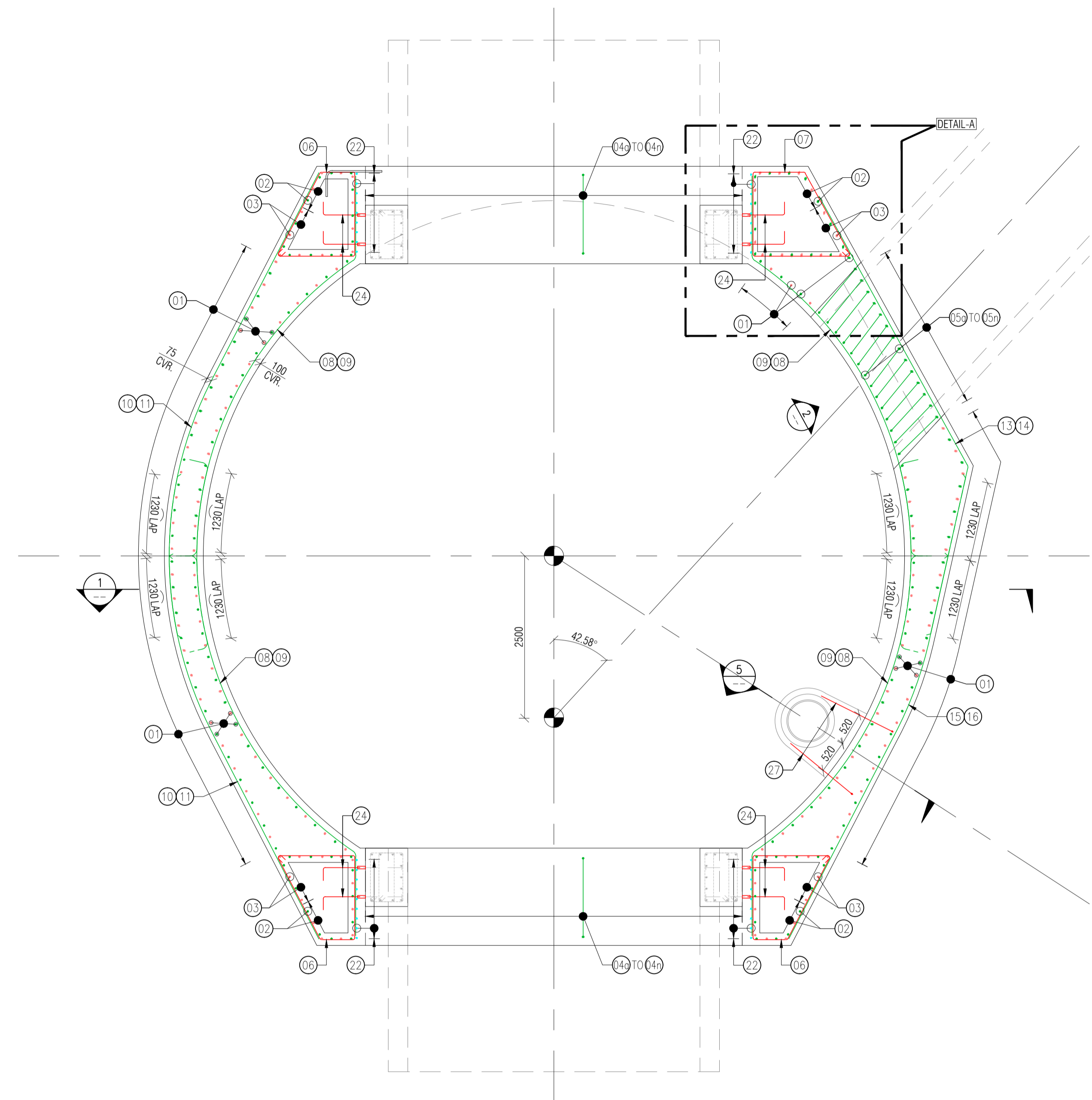
SK-05 HD25 @200 crs FF HORIZ. REINF.



SK-06 HD25 @200 crs FF HORIZ. REINF. AT CC2A ADIT



WORK SHAFT -COLLAR REINFORCING POUR-2 REINFORCEMENT LAYOUT
 AT LEVEL -11.72 FOR MAIN TUNNEL & CC2A ADIT
 SCALE 1:50



WORK SHAFT -COLLAR REINFORCING POUR-2 REINFORCEMENT LAYOUT
 AT LEVEL -8.95 FOR CC2A ADIT
 SCALE 1:50

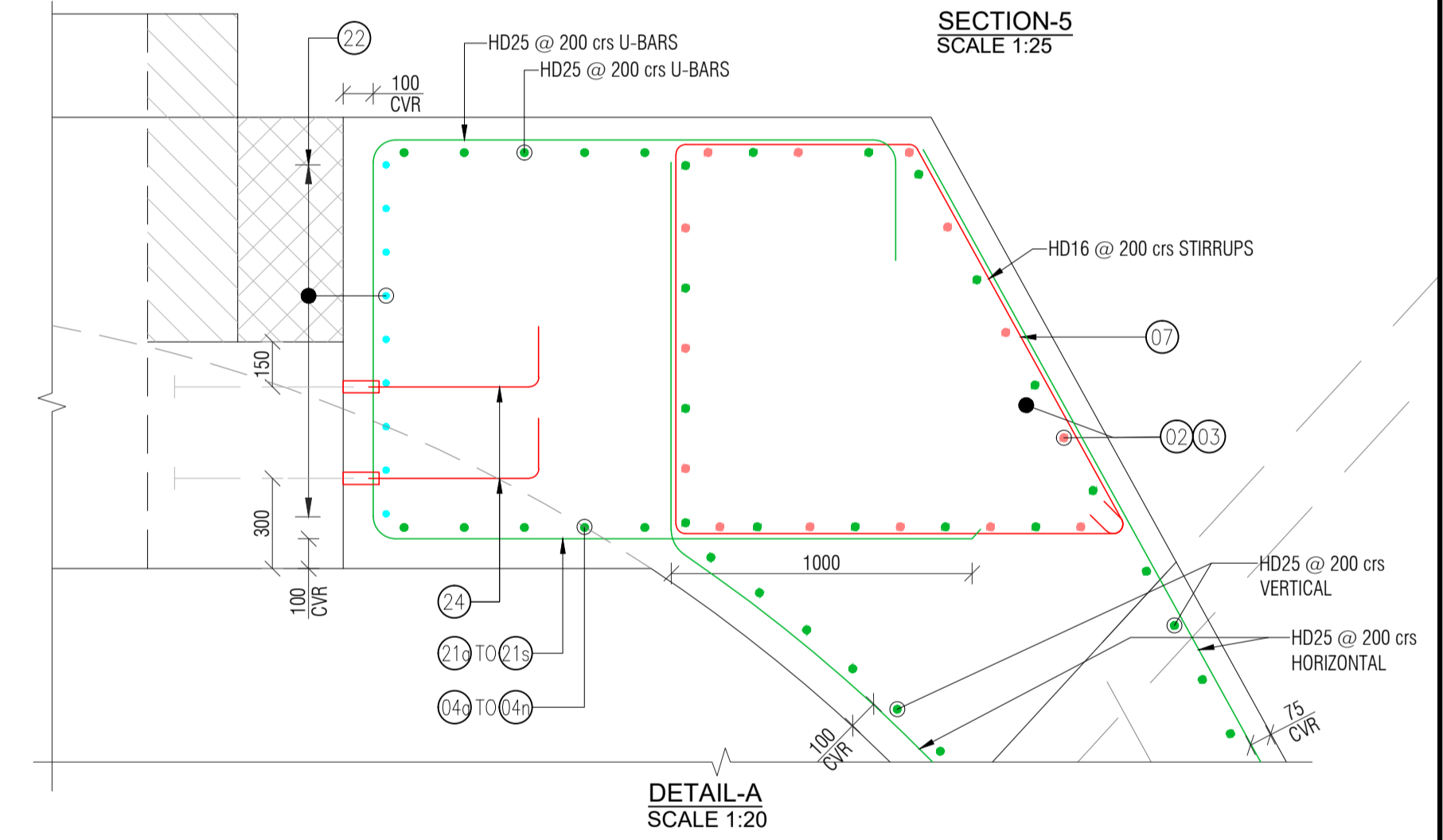
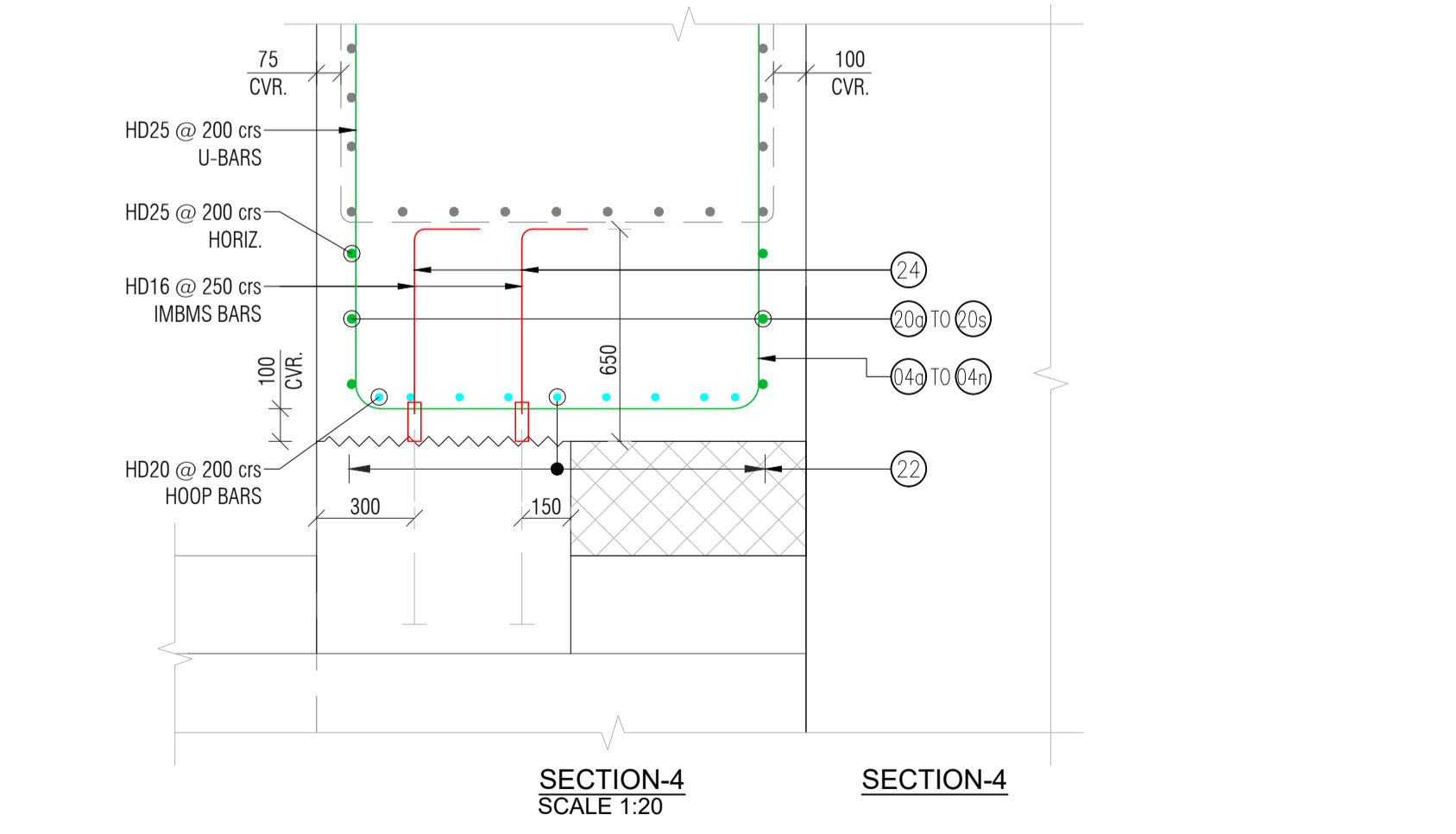
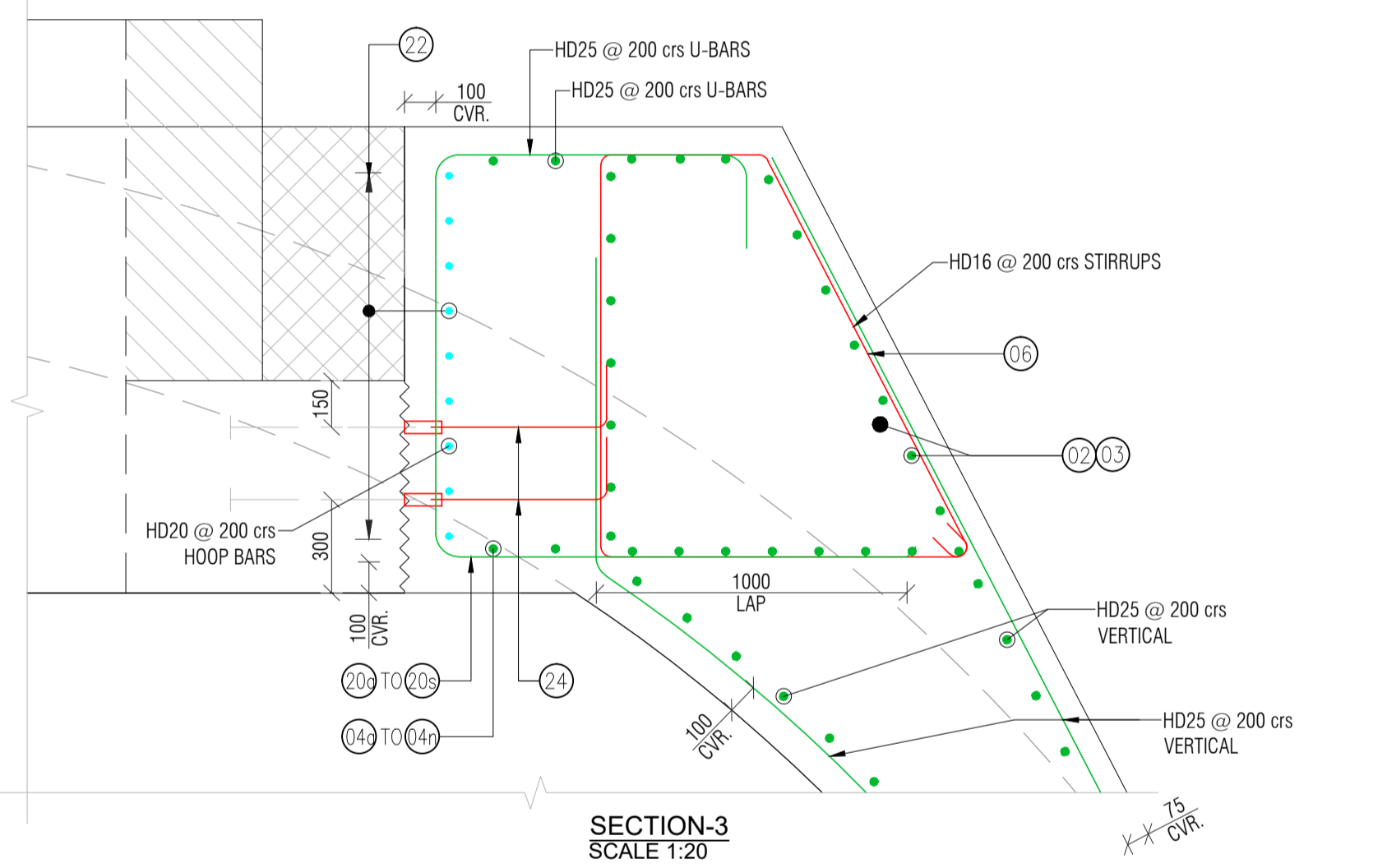
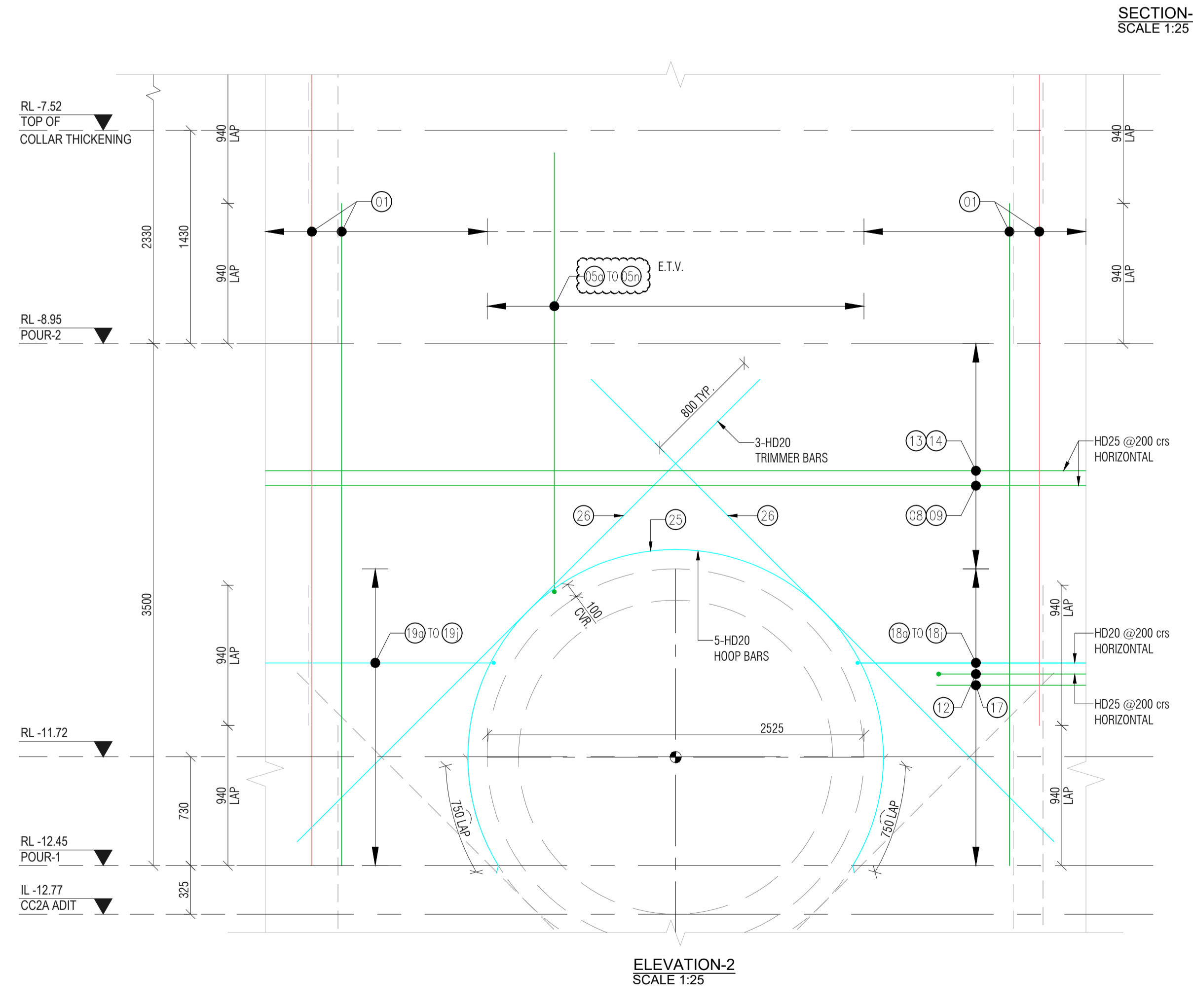
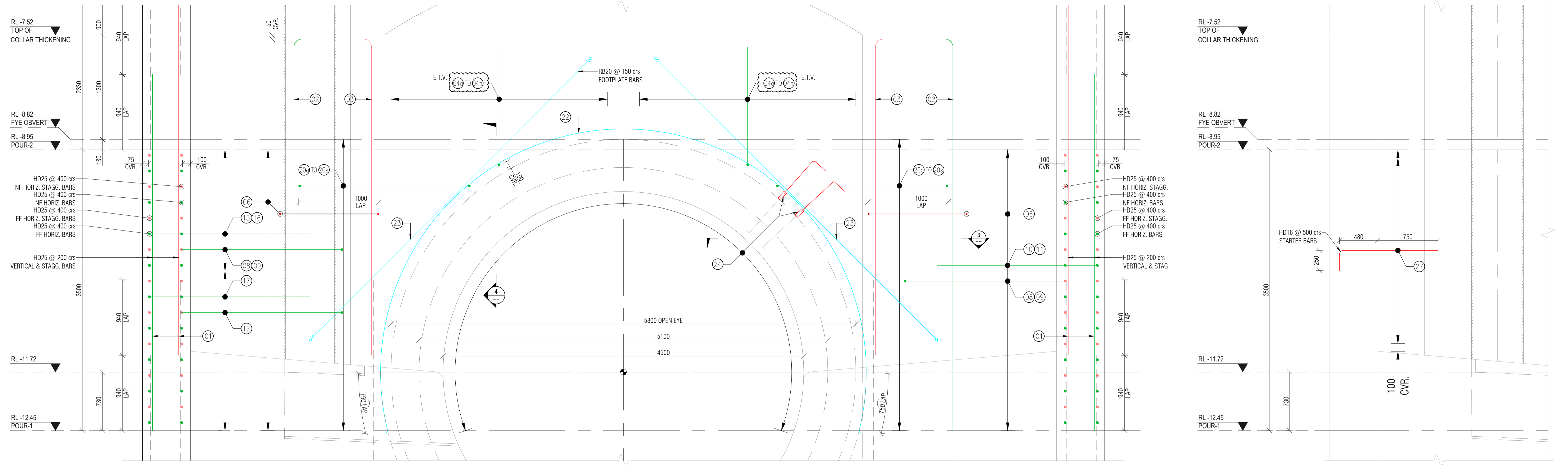
ISSUE	DATE	AMENDMENT	BY	APPD.
0	14/02/24	ISSUED FOR APPROVAL		

DESIGNED	
DES. CHECKED	
DRAWN	HD
DWG. CHECKED	--
PROJECT LEADER	
INFRASTR'R APP'D	
BY	DATE



WORK SHAFT-COLLAR REINFORCING POUR-2 REINFORCEMENT LAYOUT

CAD FILE	DATE 00/00/2024
ORIGINAL SCALE A1	CONTRACT No. 6661
SCALE AS SHOWN	
REF. No.	ISSUE
DWG. No. ST-P2-01 (1 of 2)	0



E.T.V. = ENGINEER TO VERIFY
JACOBS AECOM
 McMILLEN JACOBS ASSOCIATES


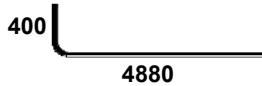
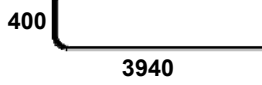
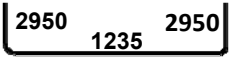
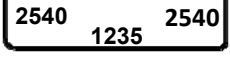
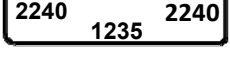
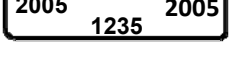
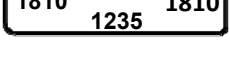
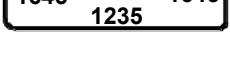
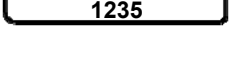
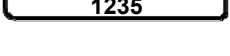
ISSUE	DATE	AMENDMENT	BY	APPD.
0	14/02/24	ISSUED FOR APPROVAL		

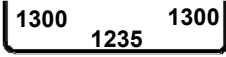
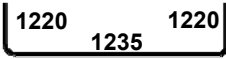
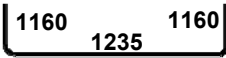








DESIGNED	DES. CHECKED	DRAWN	DWG. CHECKED	PROJECT LEADER	INFRAS'T'R APP'D
		HD	--		



WORK SHAFT-COLLAR REINFORCING POUR-2 REINFORCEMENT DETAILS

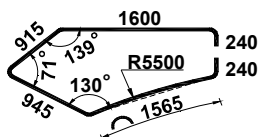
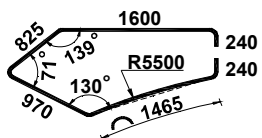
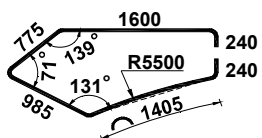
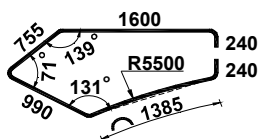
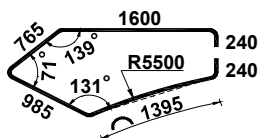
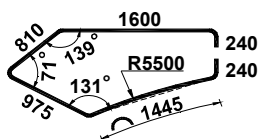
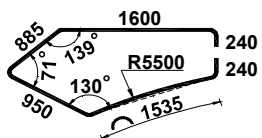
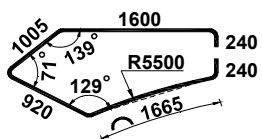
CAD FILE	DATE
ORIGINAL SCALE A1	00/00/2024
SCALE AS SHOWN	CONTRACT No. 6661
REF. No.	ISSUE
DWG. No. ST-P2-01 (2 of 2)	0

Date: 14 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-2 Reinforcement					REV.		
Drawing Number:			ST-P2-01		0		
BBS Nummber:			BBS-ST-P2-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
01	HD25 @200crs VERTICAL & STAGGERED BARS	HD 25	185	4440		3165.56	
02	HD25 @200/150crs 90° COG VERTICAL BARS	HD 25	53	5230		1068.25	
03	HD25 @200/150crs 90° COG VERTICAL STAGGERED BARS	HD 25	53	4290		876.25	
4a	HD25 @200Crs U-BARS	HD 25	4	7035		108.45	
4b	HD25 @200Crs U-BARS	HD 25	4	6215		95.81	
4c	HD25 @200Crs U-BARS	HD 25	4	5615		86.56	
04d	HD25 @200Crs U-BARS	HD 25	4	5145		79.31	
04e	HD25 @200Crs U-BARS	HD 25	4	4755		73.30	
04f	HD25 @200Crs U-BARS	HD 25	4	4425		68.21	
04g	HD25 @200Crs U-BARS	HD 25	4	4155		64.05	
04h	HD25 @200Crs U-BARS	HD 25	4	3925		60.51	

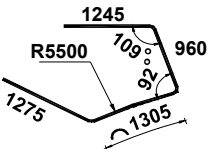
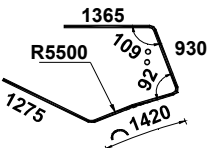
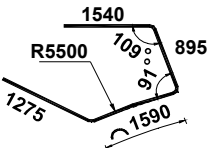
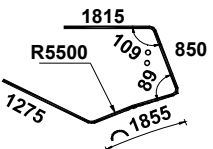
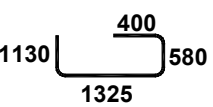
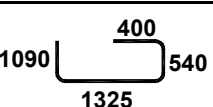
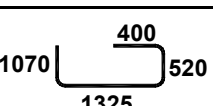
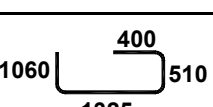
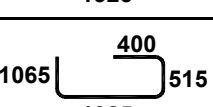
Date: 14 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-2 Reinforcement					REV.		
Drawing Number:			ST-P2-01		0		
BBS Nummber:			BBS-ST-P2-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
04i	HD25 @200Crs U-BARS	HD 25	4	3735		57.58	
04j	HD25 @200Crs U-BARS	HD 25	4	3575		55.11	
04k	HD25 @200Crs U-BARS	HD 25	4	3455		53.26	
04l	HD25 @200Crs U-BARS	HD 25	4	3355		51.72	
04m	HD25 @200Crs U-BARS	HD 25	4	3285		50.64	
04n	HD25 @200Crs U-BARS	HD 25	4	3245		50.02	
05a	HD25 @200Crs U-BARS	HD 25	1	7805		30.08	
05b	HD25 @200Crs U-BARS	HD 25	1	7140		27.52	
05c	HD25 @200Crs U-BARS	HD 25	1	6725		25.92	
05d	HD25 @200Crs U-BARS	HD 25	1	6440		24.82	
05e	HD25 @200Crs U-BARS	HD 25	1	6240		24.05	

Date: 14 / 02 / 2024					Contract Drawing		REV.
Project :							
WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-2 Reinforcement					REV.		
Drawing Number:			ST-P2-01		0		
BBS Nubmber:			BBS-ST-P2-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
05f	HD25 @200Crs U-BARS	HD 25	1	6105		23.53	
05g	HD25 @200Crs U-BARS	HD 25	1	6035		23.26	
05h	HD25 @200Crs U-BARS	HD 25	1	6020		23.20	
05i	HD25 @200Crs U-BARS	HD 25	1	6060		23.35	
05j	HD25 @200Crs U-BARS	HD 25	1	6180		23.82	
05k	HD25 @200Crs U-BARS	HD 25	1	6360		24.51	
05l	HD25 @200Crs U-BARS	HD 25	1	6620		25.51	
05m	HD25 @200Crs U-BARS	HD 25	1	6995		26.96	
05n	HD25 @200Crs U-BARS	HD 25	1	7565		29.15	
06	HD16 @200 crs STIRRUPS	HD 16	54	4675		398.50	
07	HD16 @200 crs STIRRUPS	HD 16	18	5270		149.74	

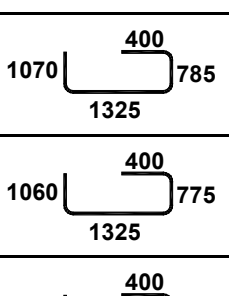
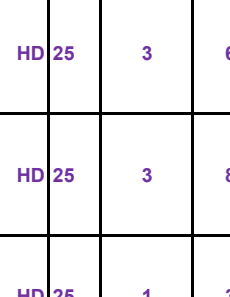
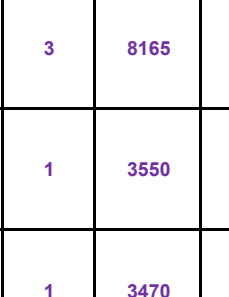
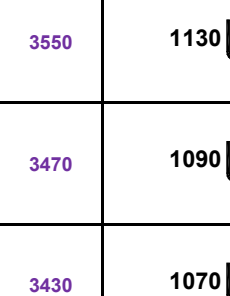
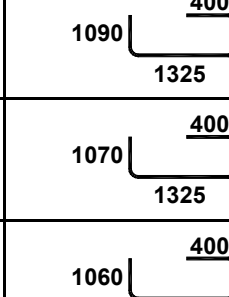
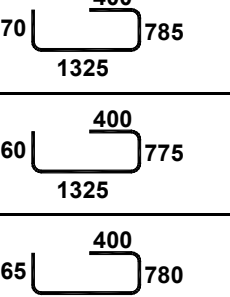
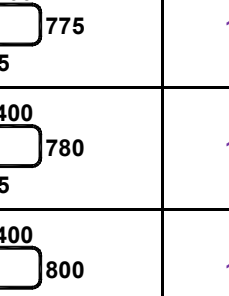
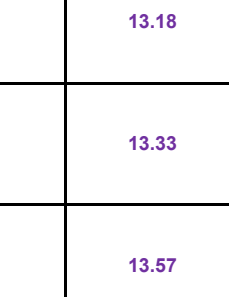

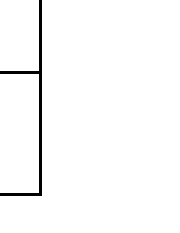

Date: 14 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-2 Reinforcement					REV.		
Drawing Number:			ST-P2-01		0		
BBS Nubmber:			BBS-ST-P2-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
08	HD25 @400 crs NF HORIZ. & STAGGERED BARS EF	HD 25	26	6880	REFER SKETCH SK-01	689.38	
09	HD25 @400 crs NF HORIZ. & STAGGERED BARS EF	HD 25	26	8305	REFER SKETCH SK-01	832.16	
10	HD25 @400 crs FF HORIZ. & STAGGERED BARS	HD 25	18	6410	REFER SKETCH SK-02	444.66	
11	HD25 @400 crs FF HORIZ. & STAGGERED BARS	HD 25	18	7640	REFER SKETCH SK-02	529.98	
12	HD25 @200 crs NF HORIZ. BARS AT CC2A ADIT	HD 25	10	7975	REFER SKETCH SK-03	307.35	
13	HD25 @400 crs FF HORIZ. BARS	HD 25	4	6630	REFER SKETCH SK-04	102.20	
14	HD25 @400 crs FF HORIZ. STAGGERED BARS	HD 25	4	7800	REFER SKETCH SK-04	120.24	
15	HD25 @400 crs FF HORIZ. BARS	HD 25	4	7655	REFER SKETCH SK-05	118.01	
16	HD25 @400 crs FF HORIZ. STAGGERED BARS	HD 25	4	6425	REFER SKETCH SK-05	99.04	
17	HD25 @400 crs FF HORIZ. BARS AT CC2A ADIT	HD 25	10	7315	REFER SKETCH SK-06	281.91	

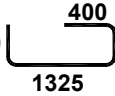
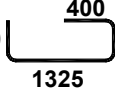
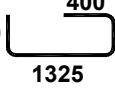
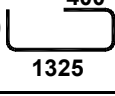
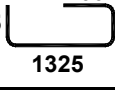
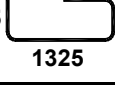
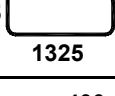
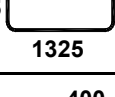
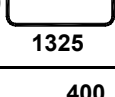
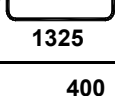
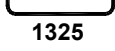
Date: 14 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-2 Reinforcement					REV.		
Drawing Number:			ST-P2-01		0		
BBS Nubmer:			BBS-ST-P2-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
18a	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5305		13.08	
18b	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5140		12.68	
18c	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5045		12.44	
18d	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5010		12.36	
18e	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5025		12.39	
18f	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5110		12.60	
18g	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5250		12.95	
18h	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5470		13.49	

Date: 14 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-2 Reinforcement					REV.		
Drawing Number:			ST-P2-01		0		
BBS Nubmer:			BBS-ST-P2-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
18i	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5805		14.32	
18j	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	6325		15.60	
19a	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	4710		11.62	
19b	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	4560		11.25	
19c	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	4470		11.03	
19d	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	4435		10.94	
19e	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	4455		10.99	
19f	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	4530		11.17	

Date: 14 / 02 / 2024					Contract Drawing		REV.
Project :							
WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-2 Reinforcement					REV.		
Drawing Number:			ST-P2-01		0		
BBS Nubmer:			BBS-ST-P2-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
19g	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	4665		11.51	
19h	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	4870		12.01	
19i	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5180		12.78	
19j	HD20 @200 crs HORIZ. U-BARS AT CC2A ADIT	HD 20	1	5675		14.00	
20a	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3285		37.98	
20b	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3205		37.05	
20c	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3165		36.59	
20d	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3145		36.36	
20e	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3155		36.48	

Date: 14 / 02 / 2024					Contract Drawing		REV.
Project :							
WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001		C
					2012053.002		B
					2012053.003		C
					2011822.002		D
					2011822.003		F
					2011822.004		C
					2011822.009		A
					2011822.010		A
					2011822.011		A
					2011822.012		A
2011822.013		C					
2011822.021		A					
Drawing Description:					REV.		
Work Shaft Lining Wall Pour-2 Reinforcement							
Drawing Number:			ST-P2-01		0		
BBS Nubmber:			BBS-ST-P2-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
20f	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3195		36.94	
20g	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3255		37.63	
20h	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3345		38.67	
20i	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3465		40.06	
20j	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3625		41.91	
20k	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	3805		43.99	
20l	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	4030		46.59	
20m	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	4295		49.66	
20n	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	4615		53.36	
20o	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	4995		57.75	
20p	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	5455		63.07	

Date: 14 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-2 Reinforcement					REV.		
Drawing Number:			ST-P2-01		0		
BBS Nummber:			BBS-ST-P2-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
20q	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	6025	2500 	69.66	
20r	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	6805	2890 	78.68	
20s	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	3	8165	3570 	94.40	
21a	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3550	1130 	13.68	
21b	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3470	1090 	13.37	
21c	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3430	1070 	13.22	
21d	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3410	1060 	13.14	
21e	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3420	1065 	13.18	
21f	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3460	1085 	13.33	
21g	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3520	1115 	13.57	
21h	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3610	1160 	13.91	

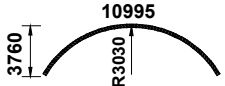
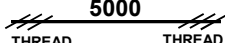



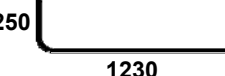
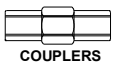
Date: 14 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-2 Reinforcement					REV.		
Drawing Number:			ST-P2-01		0		
BBS Nubmber:			BBS-ST-P2-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
21i	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3730	1220  935 1325	14.37	
21j	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	3890	1300  1015 1325	14.99	
21k	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	4070	1390  1105 1325	15.69	
21l	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	4295	1500  1220 1325	16.55	
21m	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	4560	1635  1350 1325	17.57	
21n	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	4880	1795  1510 1325	18.81	
21o	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	5260	1985  1700 1325	20.27	
21p	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	5720	2215  1930 1325	22.04	
21q	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	6290	2500  2215 1325	24.24	
21r	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	7070	2890  2605 1325	27.25	
21s	HD25 @200 crs HORIZ. U-BARS AROUND MAIN TUNNEL	HD 25	1	8430	3570  3285 1325	32.49	

Date: 14 / 02 / 2024	Contract Drawing	REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES	2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021	C B C D F C A A A A C A

Drawing Description: Work Shaft Lining Wall Pour-2 Reinforcement	REV.
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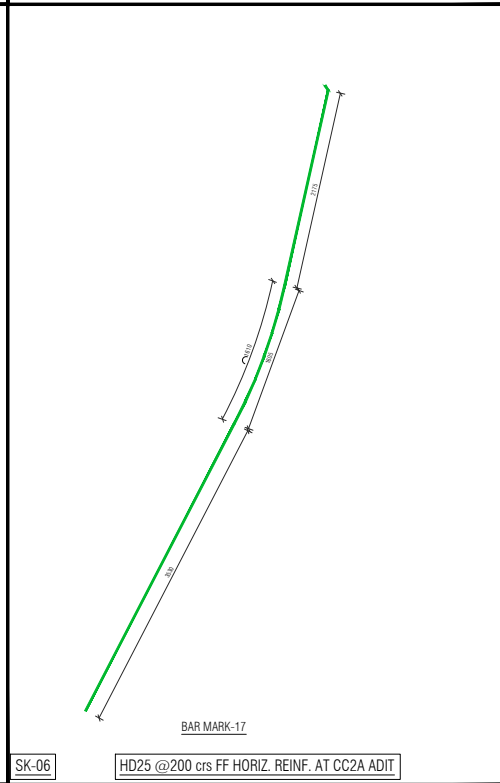
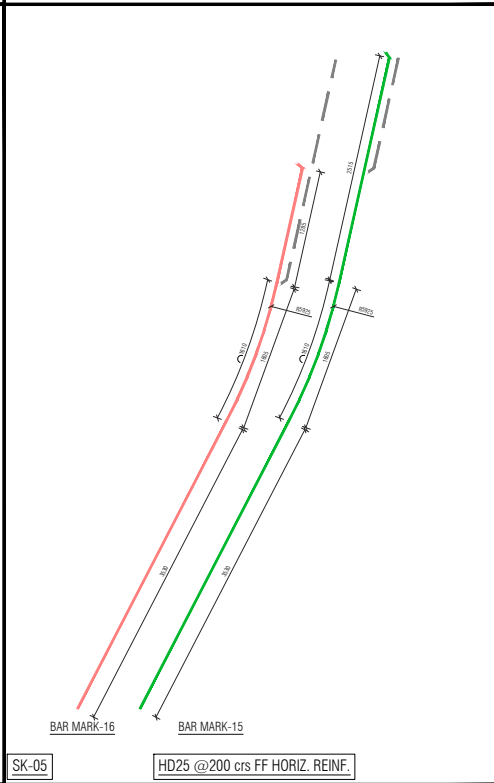
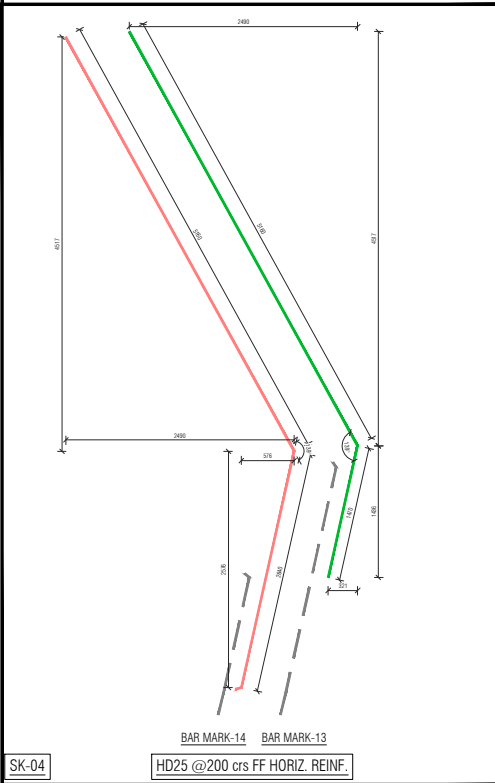
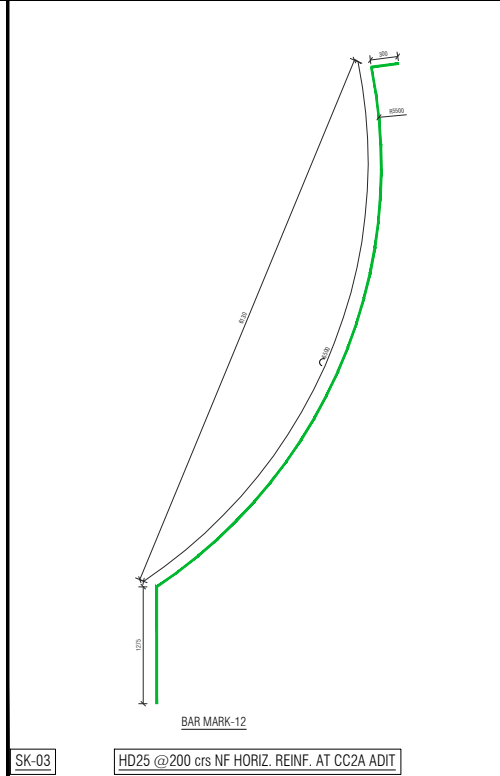
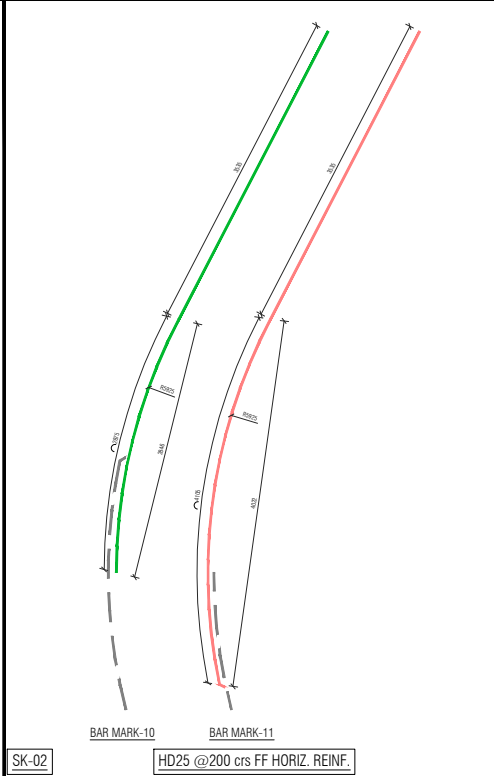
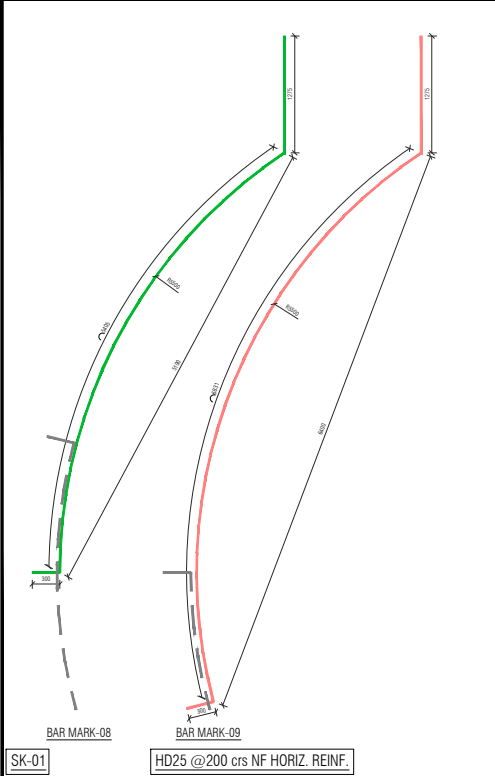
Drawing Number:	ST-P2-01	0
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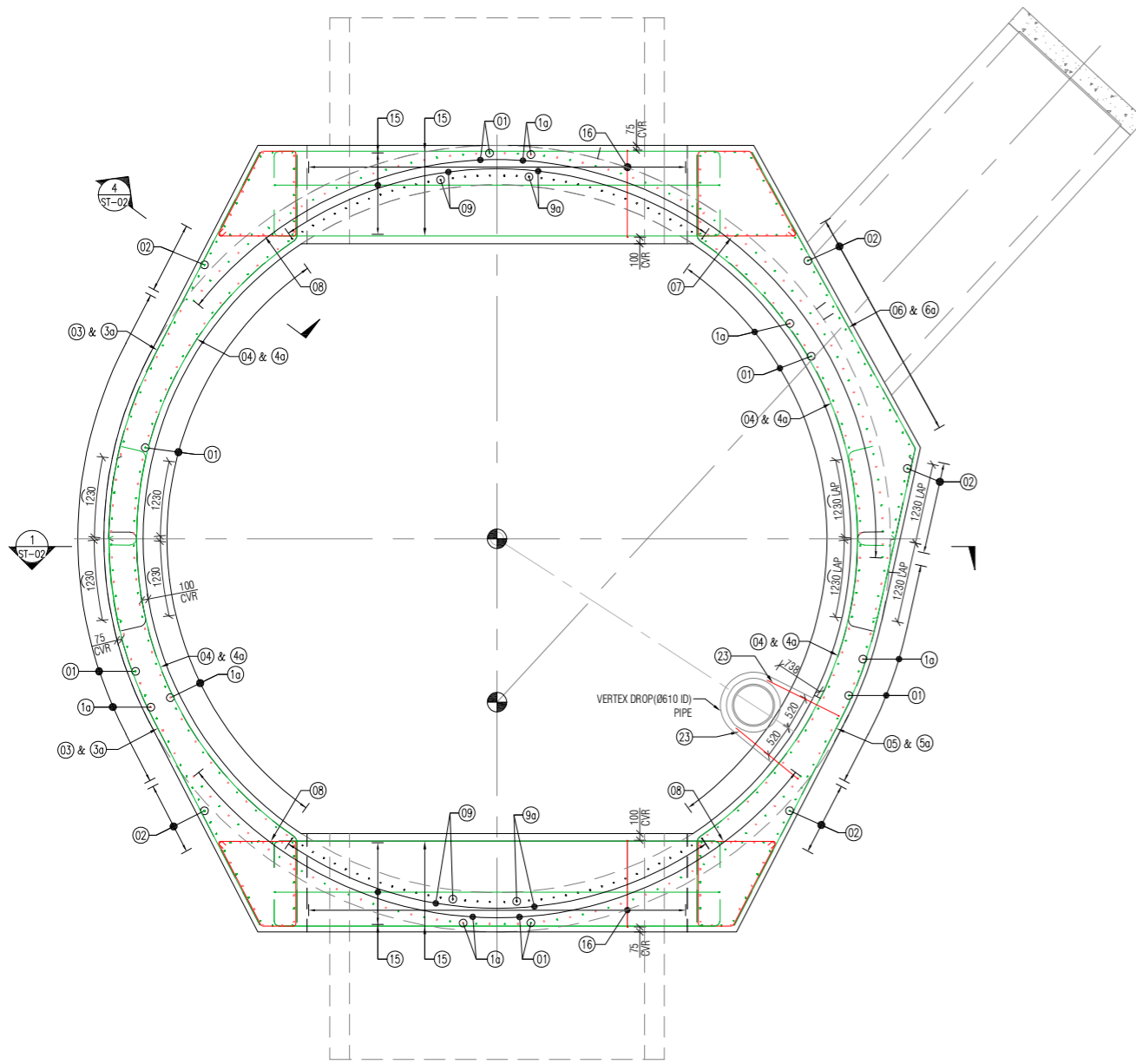
BBS Nubmer:	BBS-ST-P2-01	0
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BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG
22	HD20 @150 HOOP BARS AROUND MAIN TUNNEL	HD 20	18	10995		488.14
23	RB20 @150crs FOOTPLATE BARS	HD 20	18	5000		221.98
24	2 ROWS OF HD16 @250crs IMBMS BARS	HD 16	86	768		104.26
25	5 - HD20 BARS HOOP BARS AROUND CC2A ADIT	HD 20	5	10995		135.59
26	3-HD20 TRIMMER BARS AT CC2A ADIT	HD 20	6	4385		64.89
27	HD16 @500crs STARTER BARS	HD 16	6	1448		13.71
	IMBMS COUPLER	16	86			
Total Weight						13039.73

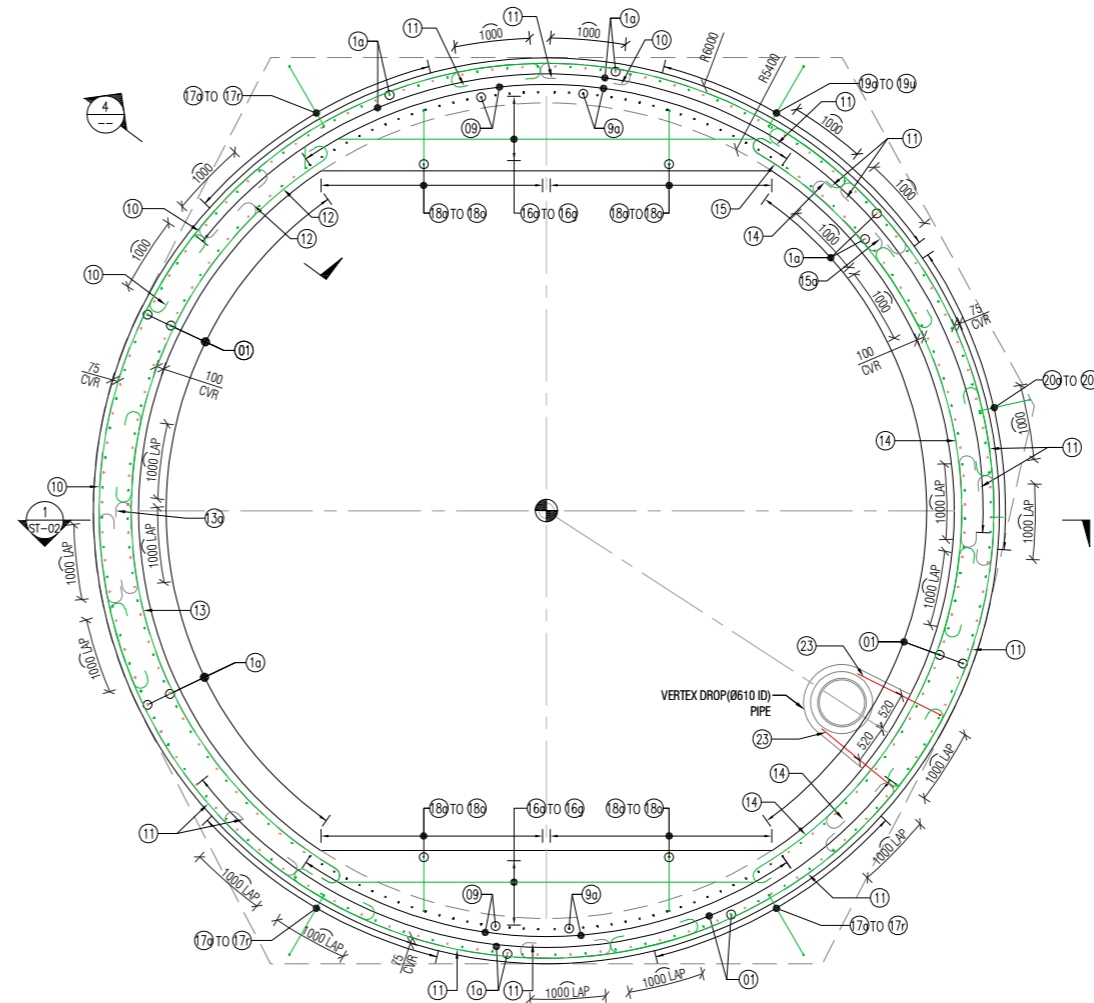
NOTE:
(1) All dimension lengths mentioned in the Shape are taken as out-to-out dimensions.

<u>Summary Of Bars</u>	
Size	Weight
10	0.00
12	0.00
16	666.22
20	1159.81
25	11213.71
32	0.00
Total Weight	13039.73





WORK SHAFT -COLLAR REINFORCING POUR-3 REINFORCEMENT LAYOUT
 PLAN AT TOP OF COLLAR THICKENING OF MAIN TUNNEL
 SCALE 1:50



SECTION-2
 SCALE 1:50

E.T.V - ENGINEER TO VERIFY

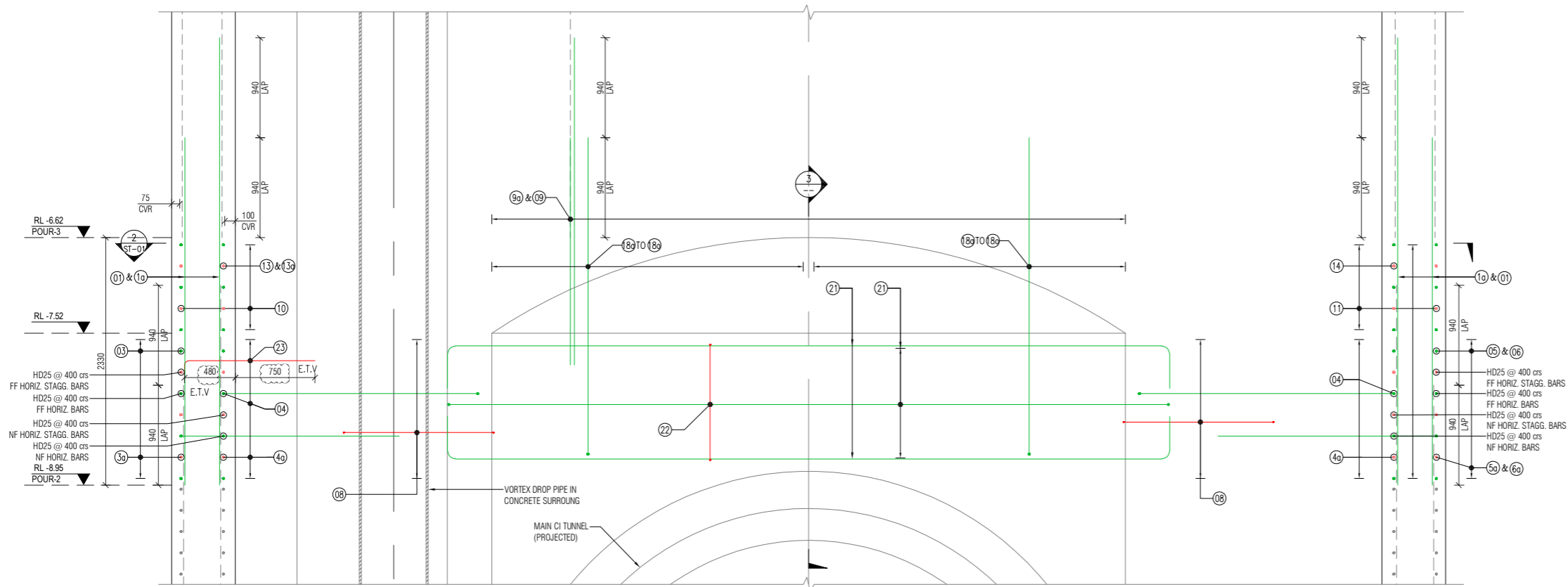


ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	DES. CHECKED	DRAWN	DWG. CHECKED	PROJECT LEADER	INFRASTR'R APP'D
0	15/02/24	ISSUED FOR APPROVAL								

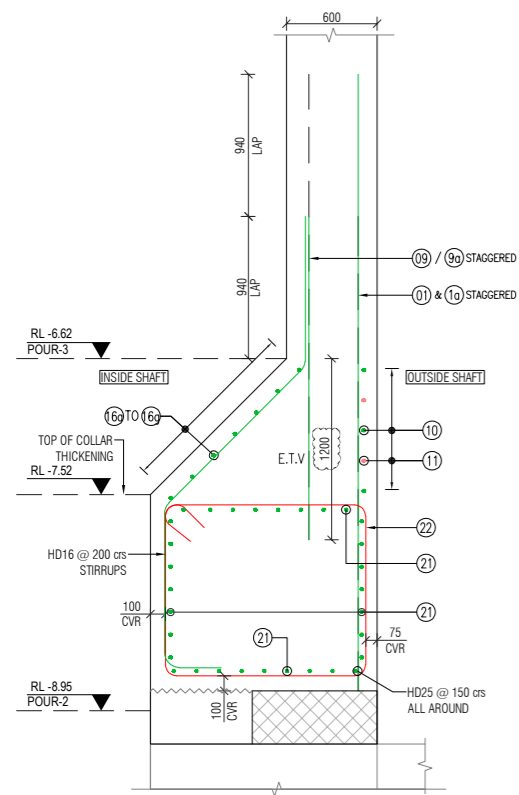
Watercare
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WORK SHAFT-COLLAR REINFORCING POUR-3 REINFORCEMENT LAYOUT

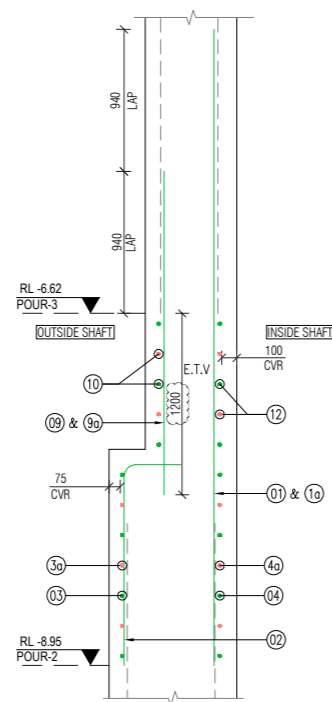
CAD FILE	DATE 12/02/2024
ORIGINAL SCALE A1 SCALE AS SHOWN	CONTRACT No. 6661
REF. No.	ISSUE
DWG. No. ST-P3-01 (1 of 2)	0



SECTION-1
SCALE 1:25



SECTION-3
SCALE 1:25



SECTION-4
SCALE 1:25

E.T.V. - ENGINEER TO VERIFY



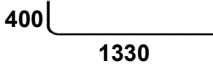
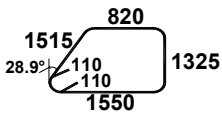
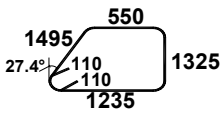
ISSUE	DATE	AMENDMENT	BY	APPD.
0	15/02/24	ISSUED FOR APPROVAL		

DESIGNED	DES. CHECKED	DRAWN	DWG. CHECKED	PROJECT LEADER	INFRASTR'R APP'D
		AJR	HP		



WORK SHAFT-COLLAR REINFORING POUR-3
REINFORCEMENT LAYOUT

CAD FILE	DATE 12/02/2024
ORIGINAL SCALE A1 SCALE AS SHOWN	CONTRACT No. 6661
REF. No.	ISSUE
DWG. No. ST-P3-01 (2 of 2)	0

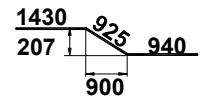
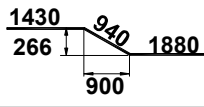
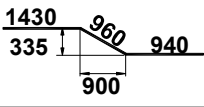
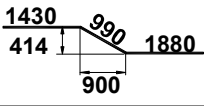
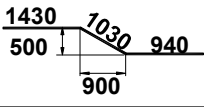
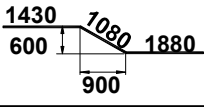
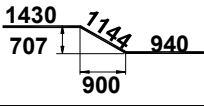
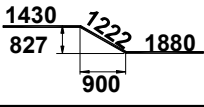
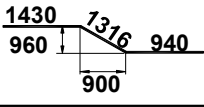
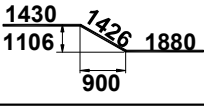
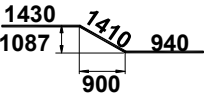
Date: 15 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-3 Reinforcement					REV.		
Drawing Number:			ST-P3-01		0		
BBS Nubmber:			BBS-ST-P3-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
1	HD25 @ 400crs VERTICALS	HD 25	148	3270	<u>3270</u>	1865.11	
1a	HD25 @ 400crs VERT. STAGGERED BARS	HD 25	148	4210	<u>4210</u>	2401.26	
2	HD25 @ 200crs TER. BARS	HD 25	45	1680	400  1330	291.35	
3	HD25 @ 400 crs FF HORIZ. BARS	HD 25	8	7630	REFER SKETCH SK-01	235.24	
3a	HD25 @ 400crs FF HORIZ. STAGGERED BARS	HD 25	6	6400	REFER SKETCH SK-02	147.99	
4	HD25 @ 400crs NF HORIZ. BARS	HD 25	16	8358	REFER SKETCH SK-03	515.37	
4a	HD25 @ 400crs NF HORIZ. STAGGERED BARS	HD 25	12	7128	REFER SKETCH SK-04	329.64	
5	HD25 @ 400crs FF HORIZ. BARS	HD 25	4	6424	REFER SKETCH SK-05	99.03	
5a	HD25 @ 400crs FF HORIZ. STAGGERED BARS	HD 25	3	7654	REFER SKETCH SK-06	88.49	
6	HD25 @ 400crs FF HORIZ. BARS	HD 25	4	7800	REFER SKETCH SK-07	120.24	
6a	HD25 @ 400crs FF HORIZ. STAGGERED BARS	HD 25	3	6570	REFER SKETCH SK-08	75.96	
7	HD16 @ 200crs STIRRUPS	HD 16	7	5270		58.23	
8	HD16 @ 200crs STIRRUPS	HD 16	21	4665		154.64	
9	HD25 @ 400crs VERTICALS	HD 25	36	2140	<u>2140</u>	296.90	

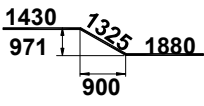
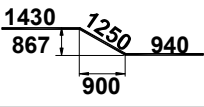
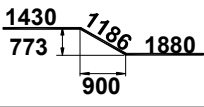
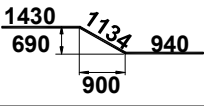
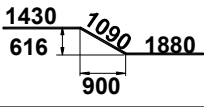
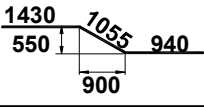
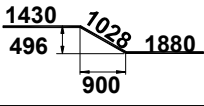
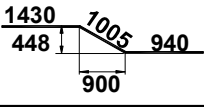
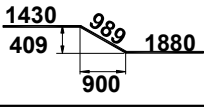
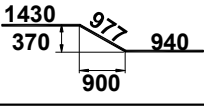
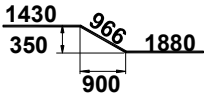
Date: 15 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C C A
Drawing Description: Work Shaft Lining Wall Pour-3 Reinforcement					REV.		
Drawing Number:			ST-P3-01		0		
BBS Nubmber:			BBS-ST-P3-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
9a	HD25 @ 400crs VERT. STAGGERED BARS	HD 25	36	3080	<u>3080</u>	427.32	
10	HD25 @ 400crs FF HORIZ. & STAGGERED BARS	HD 25	10	6643	REFER SKETCH SK-09	256.01	
11	HD25 @ 400crs FF HORIZ. & STAGGERED BARS	HD 25	30	5863	REFER SKETCH SK-10	677.86	
12	HD25 @ 200crs NF HORIZ. & STAGGERED BARS	HD 25	5	5724	REFER SKETCH SK-11	110.30	
13	HD25 @ 200crs NF HORIZ. & STAGGERED BARS	HD 25	3	7319	REFER SKETCH SK-12	84.62	
13a	HD25 @ 200crs NF HORIZ. & STAGGERED BARS	HD 25	2	5928	REFER SKETCH SK-13	45.69	
14	HD25 @ 200crs NF HORIZ. & STAGGERED BARS	HD 25	10	5542	REFER SKETCH SK-14	213.58	
15	HD25 @ 200crs NF HORIZ. & STAGGERED BARS	HD 25	3	3547	REFER SKETCH SK-15	41.01	
15a	HD25 @ 200crs NF HORIZ. & STAGGERED BARS	HD 25	2	2356	REFER SKETCH SK-16	18.16	
16a	HD25 @ 200crs NF HORIZ. BARS	HD 25	2	6285	<u>6285</u>	48.44	
16b	HD25 @ 200crs NF HORIZ. BARS	HD 25	2	5900	<u>5900</u>	45.48	
16c	HD25 @ 200crs NF HORIZ. BARS	HD 25	2	5485	<u>5485</u>	42.28	
16d	HD25 @ 200crs NF HORIZ. BARS	HD 25	2	5020	<u>5020</u>	38.69	
16e	HD25 @ 200crs NF HORIZ. BARS	HD 25	2	4495	<u>4495</u>	34.65	
16f	HD25 @ 200crs NF HORIZ. BARS	HD 25	2	3880	<u>3880</u>	29.91	
16g	HD25 @ 200crs NF HORIZ. BARS	HD 25	2	3130	<u>3130</u>	24.13	

Date: 15 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-3 Reinforcement					REV.		
Drawing Number:			ST-P3-01		0		
BBS Nummber:			BBS-ST-P3-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
17a	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	3	4235		48.96	
17b	HD25 @ 200crs FF CRANK BARS	HD 25	3	3310		38.27	
17c	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	3	4270		49.37	
17d	HD25 @ 200crs FF CRANK BARS	HD 25	3	3360		38.85	
17e	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	3	4340		50.18	
17f	HD25 @ 200crs FF CRANK BARS	HD 25	3	3450		39.89	
17g	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	3	4450		51.45	
17h	HD25 @ 200crs FF CRANK BARS	HD 25	3	3590		41.51	
17i	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	3	4620		53.41	
17j	HD25 @ 200crs FF CRANK BARS	HD 25	3	3650		42.20	
17k	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	3	4005		46.30	

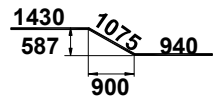
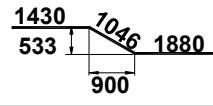
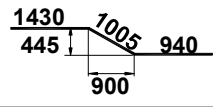
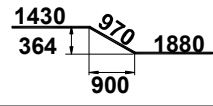
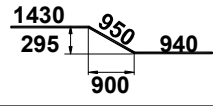
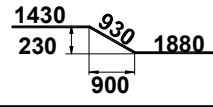
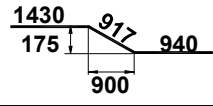
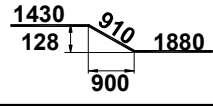
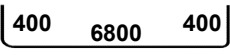
Date: 15 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-3 Reinforcement					REV.		
Drawing Number:			ST-P3-01		0		
BBS Nummber:			BBS-ST-P3-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
17l	HD25 @ 200crs FF CRANK BARS	HD 25	3	3025		34.97	
17m	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	3	3935		45.49	
17n	HD25 @ 200crs FF CRANK BARS	HD 25	3	2975		34.40	
17o	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	3	3915		45.26	
17p	HD25 @ 200crs FF CRANK BARS	HD 25	3	2995		34.63	
17q	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	3	3990		46.13	
17r	HD25 @ 200crs FF CRANK BARS	HD 25	3	3135		36.25	
18a	HD25 @ 200crs NF CRANK BARS	HD 25	4	2490		38.38	
18b	HD25 @ 200crs NF CRANK BARS	HD 25	4	2660		41.01	
18c	HD25 @ 200crs NF CRANK BARS	HD 25	4	2815		43.39	
18d	HD25 @ 200crs NF CRANK BARS	HD 25	4	2955		45.55	

Date: 15 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001		C
					2012053.002		B
					2012053.003		C
					2011822.002		D
					2011822.003		F
					2011822.004		C
					2011822.009		A
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					2011822.011		A
					2011822.012		A
2011822.013		C					
2011822.021		A					
Drawing Description:					REV.		
Work Shaft Lining Wall Pour-3 Reinforcement							
Drawing Number:			ST-P3-01		0		
BBS Nummber:			BBS-ST-P3-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
18e	HD25 @ 200crs NF CRANK BARS	HD 25	4	3080		47.48	
18f	HD25 @ 200crs NF CRANK BARS	HD 25	4	3190		49.18	
18g	HD25 @ 200crs NF CRANK BARS	HD 25	4	3290		50.72	
18h	HD25 @ 200crs NF CRANK BARS	HD 25	4	3380		52.10	
18i	HD25 @ 200crs NF CRANK BARS	HD 25	4	3450		53.18	
18j	HD25 @ 200crs NF CRANK BARS	HD 25	4	3515		54.19	
18k	HD25 @ 200crs NF CRANK BARS	HD 25	4	3570		55.03	
18l	HD25 @ 200crs NF CRANK BARS	HD 25	4	3610		55.65	
18m	HD25 @ 200crs NF CRANK BARS	HD 25	4	3640		56.11	
18n	HD25 @ 200crs NF CRANK BARS	HD 25	4	3660		56.42	
18o	HD25 @ 200crs NF CRANK BARS	HD 25	4	3670		56.57	

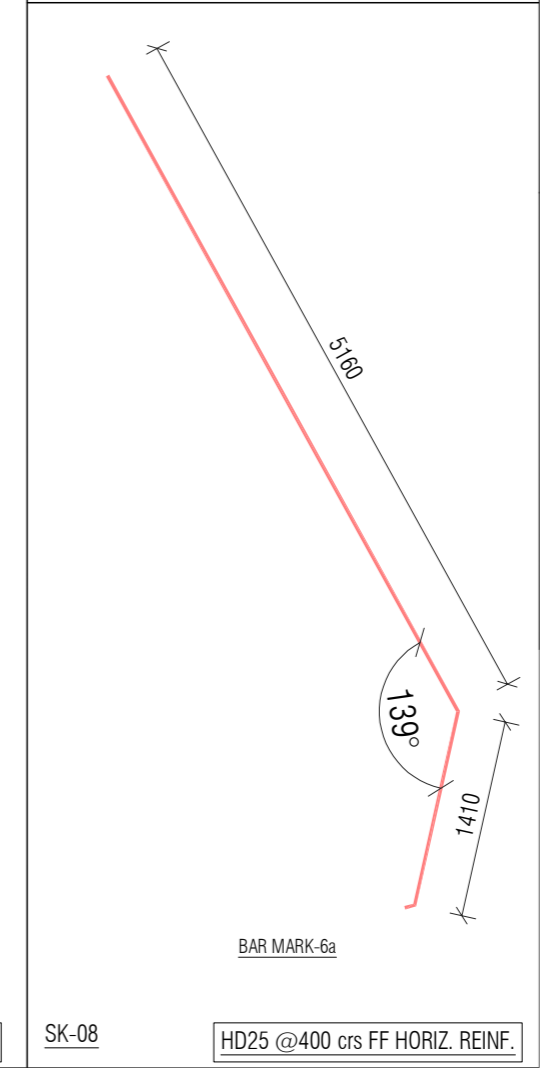
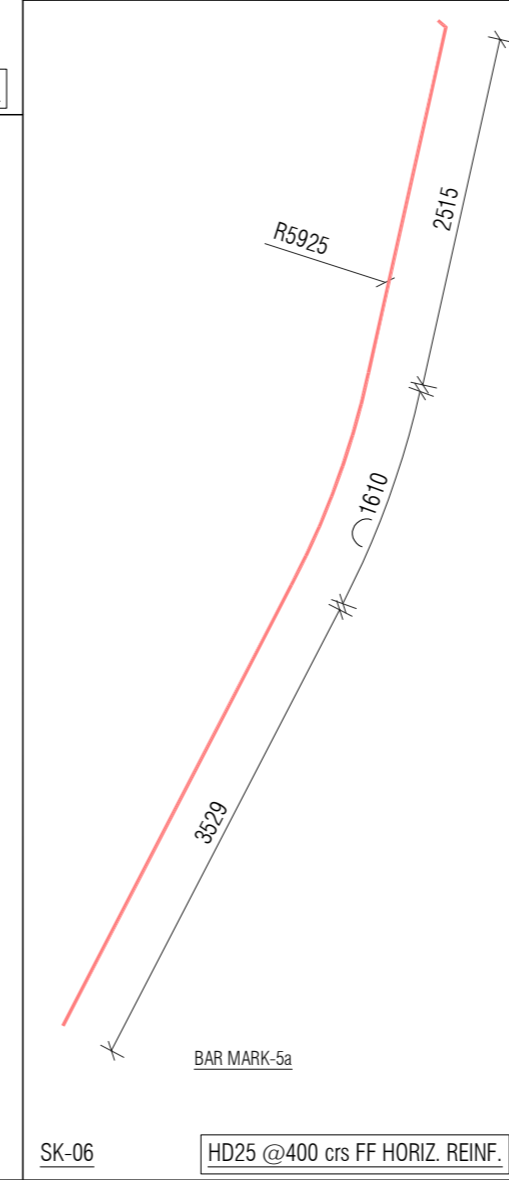
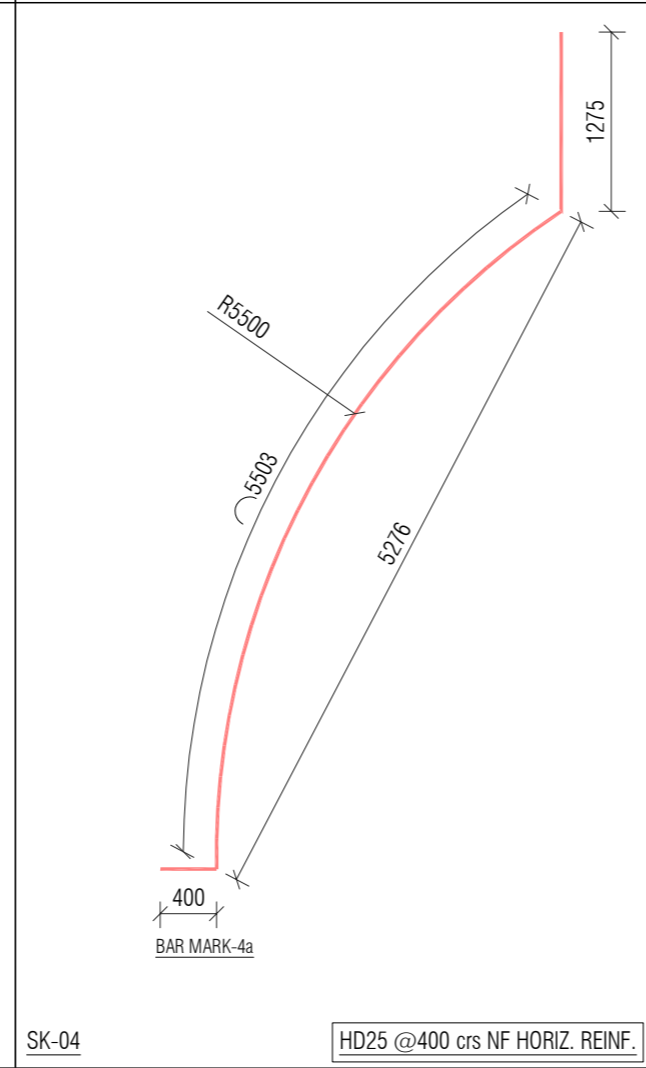
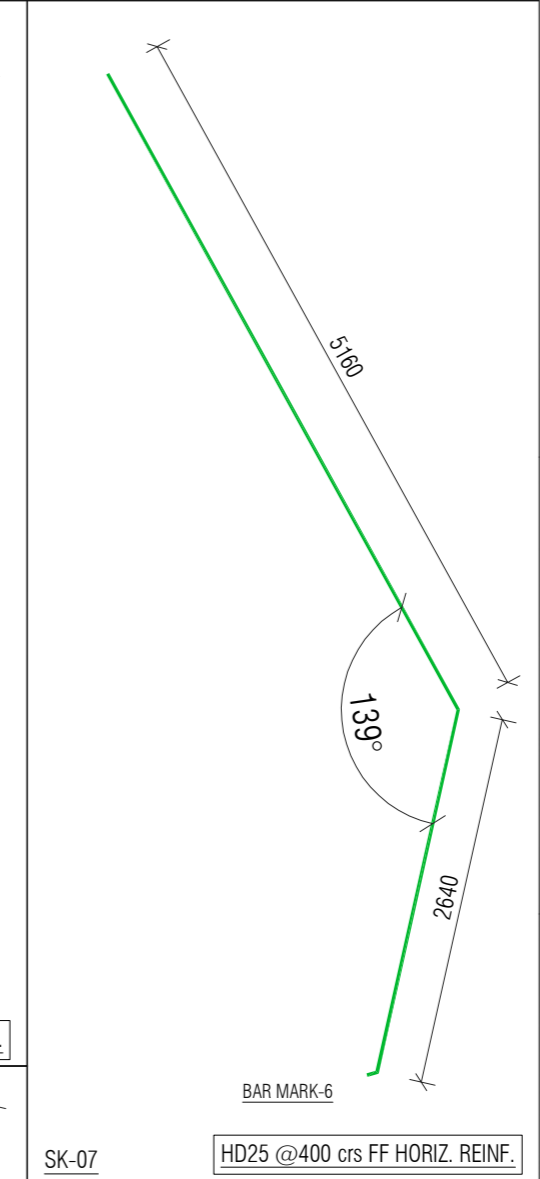
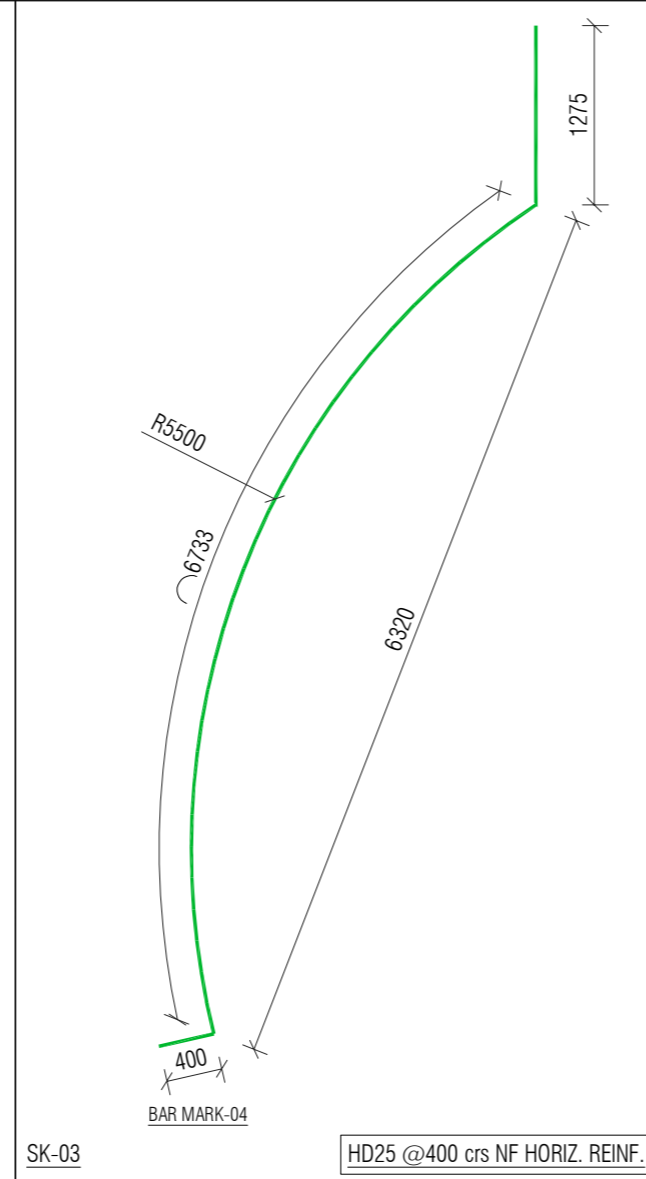
Date: 15 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-3 Reinforcement					REV.		
Drawing Number:			ST-P3-01		0		
BBS Nummber:			BBS-ST-P3-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
19a	HD25 @ 200crs FF CRANK BARS	HD 25	1	3295		12.70	
19b	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4250		16.38	
19c	HD25 @ 200crs FF CRANK BARS	HD 25	1	3330		12.83	
19d	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4300		16.57	
19e	HD25 @ 200crs FF CRANK BARS	HD 25	1	3400		13.10	
19f	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4390		16.92	
19g	HD25 @ 200crs FF CRANK BARS	HD 25	1	3514		13.54	
19h	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4532		17.47	
19i	HD25 @ 200crs FF CRANK BARS	HD 25	1	3686		14.21	
19j	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4736		18.25	
19k	HD25 @ 200crs FF CRANK BARS	HD 25	1	3780		14.57	

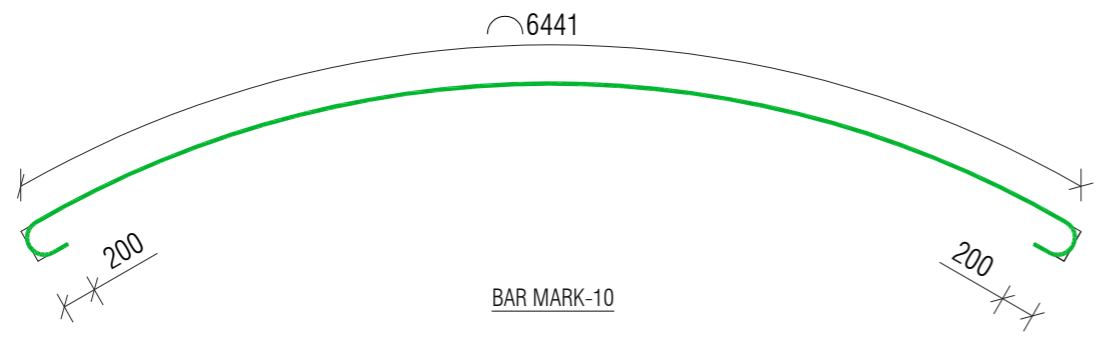
Date: 15 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-3 Reinforcement					REV.		
Drawing Number:			ST-P3-01		0		
BBS Nummber:			BBS-ST-P3-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
19l	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4635		17.86	
19m	HD25 @ 200crs FF CRANK BARS	HD 25	1	3620		13.95	
19n	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4496		17.33	
19o	HD25 @ 200crs FF CRANK BARS	HD 25	1	3504		13.50	
19p	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4400		16.96	
19q	HD25 @ 200crs FF CRANK BARS	HD 25	1	3425		13.20	
19r	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4338		16.72	
19s	HD25 @ 200crs FF CRANK BARS	HD 25	1	3375		13.01	
19t	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4299		16.57	
19u	HD25 @ 200crs FF CRANK BARS	HD 25	1	3347		12.90	
20a	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4276		16.48	

Date: 15 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-3 Reinforcement					REV.		
Drawing Number:			ST-P3-01		0		
BBS Nummber:			BBS-ST-P3-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
20b	HD25 @ 200crs FF CRANK BARS	HD 25	1	3330		12.83	
20c	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4268		16.45	
20d	HD25 @ 200crs FF CRANK BARS	HD 25	1	3328		12.83	
20e	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4270		16.46	
20f	HD25 @ 200crs FF CRANK BARS	HD 25	1	3334		12.85	
20g	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4282		16.50	
20h	HD25 @ 200crs FF CRANK BARS	HD 25	1	3353		12.92	
20i	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4308		16.60	
20j	HD25 @ 200crs FF CRANK BARS	HD 25	1	3388		13.06	
20k	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4353		16.78	

Date: 15 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-3 Reinforcement					REV.		
Drawing Number:			ST-P3-01		0		
BBS Nubmber:			BBS-ST-P3-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
20l	HD25 @ 200crs FF CRANK BARS	HD 25	1	3445		13.28	
20m	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4356		16.79	
20n	HD25 @ 200crs FF CRANK BARS	HD 25	1	3375		13.01	
20o	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4280		16.49	
20p	HD25 @ 200crs FF CRANK BARS	HD 25	1	3320		12.79	
20q	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4240		16.34	
20r	HD25 @ 200crs FF CRANK BARS	HD 25	1	3287		12.67	
20s	HD25 @ 200crs FF CRANK STAGGERED BARS	HD 25	1	4220		16.26	
21	HD25 @ 150crs U BARS	HD 25	60	7500		1734.24	

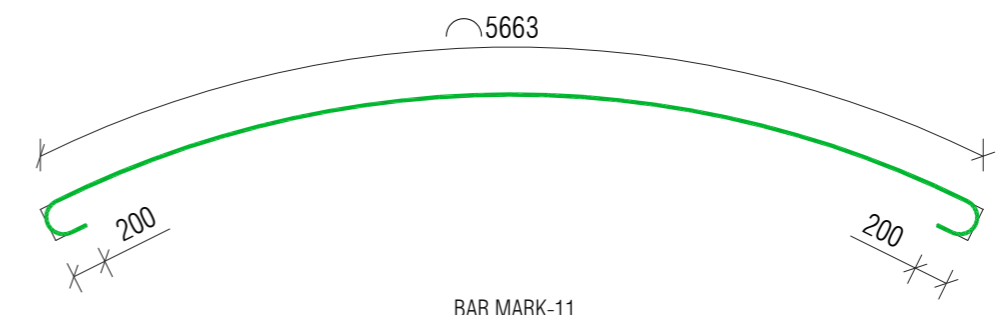
Date: 15 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.002 2011822.003 2011822.004 2011822.009 2011822.010 2011822.011 2011822.012 2011822.013 2011822.021		C B C D F C A A A A C A
Drawing Description: Work Shaft Lining Wall Pour-3 Reinforcement					REV.		
Drawing Number:			ST-P3-01		0		
BBS Nubmber:			BBS-ST-P3-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
22	HD16 @ 200crs STIRRUPS	HD 16	70	4970		549.17	
23	HD16 @ 500crs STARTER BARS	HD 16	3	1448		6.86	
Total Weight						13240.24	
NOTE: (1) All dimension lengths mentioned in the Shape are taken as out-to-out dimensions.							
Summary Of Bars							
Size		Weight					
10		0.00					
12		0.00					
16		768.91					
20		0.00					
25		12471.33					
32		0.00					
Total Weight		13240.24					





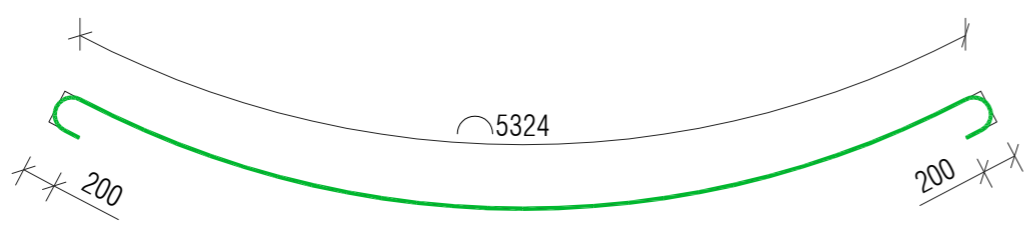
SK-09

HD25 @400 crs FF HORIZ. & STAGGERED REINF.



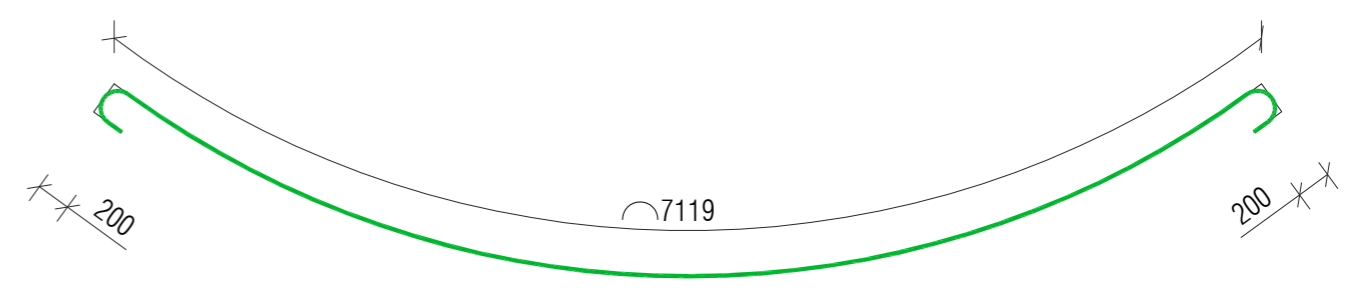
SK-10

HD25 @400 crs FF HORIZ. & STAGGERED REINF.



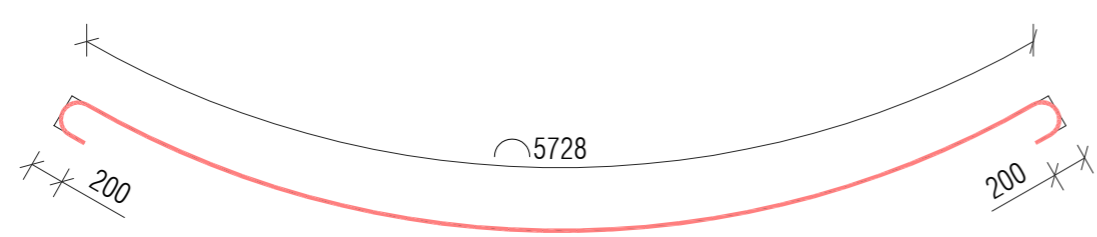
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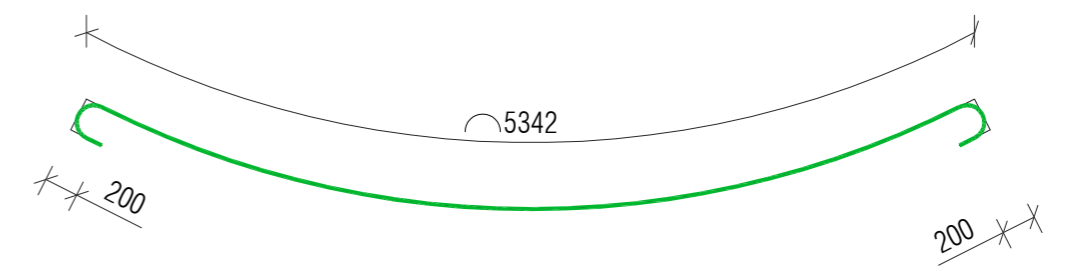
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HD25 @400 crs NF HORIZ. REINF.



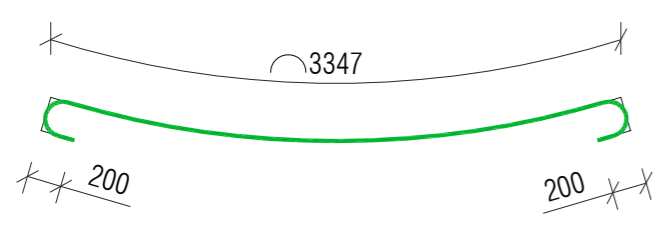
SK-13

HD25 @400 crs NF HORIZ. STAGGERED REINF.



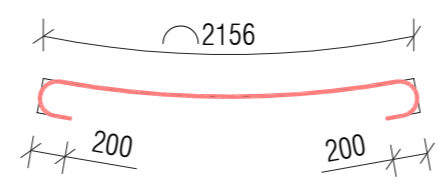
SK-14

HD25 @400 crs NF HORIZ. & STAGGERED REINF.



SK-15

HD25 @400 crs NF HORIZ. REINF.

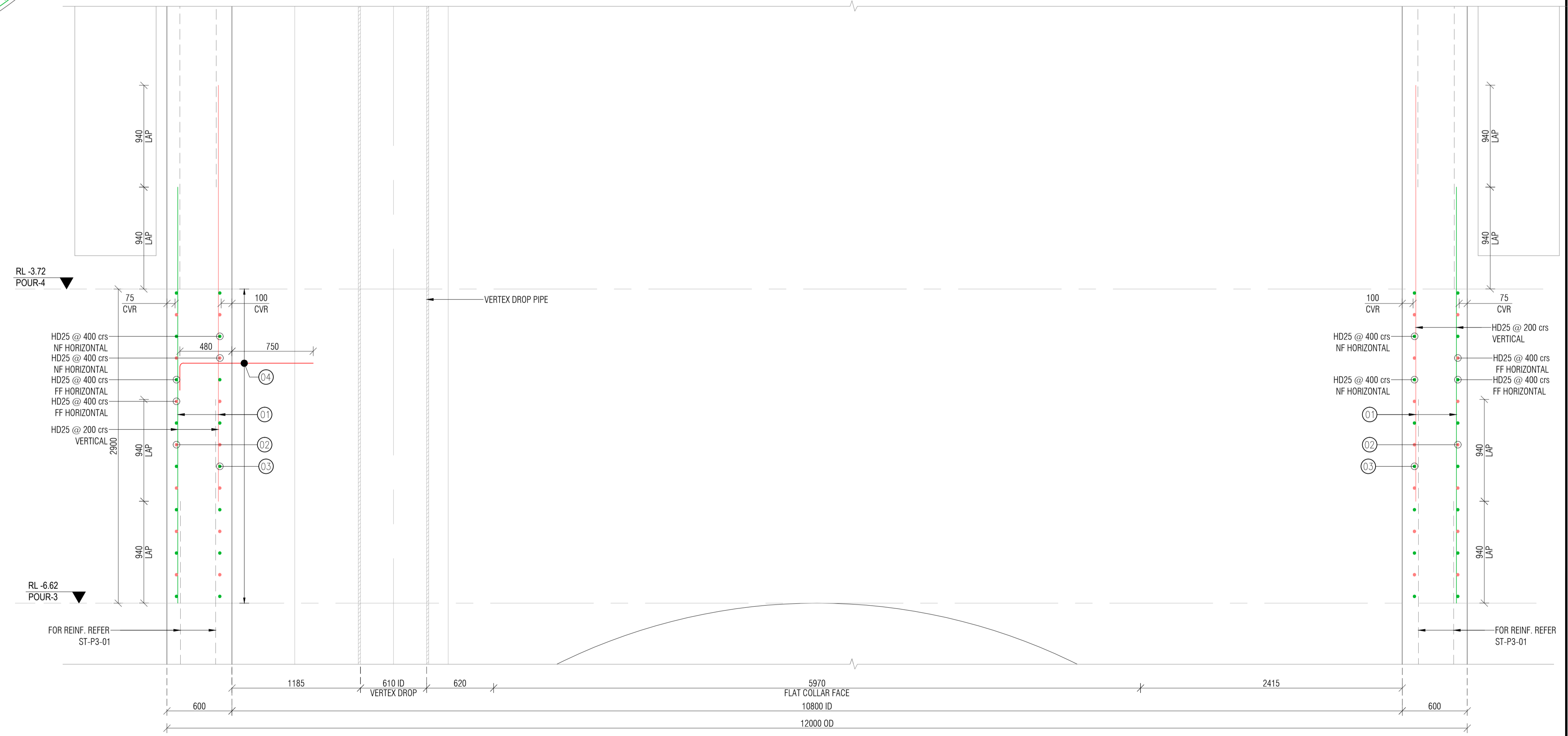


SK-16

HD25 @400 crs NF HORIZ. & STAGGERED REINF.



WORK SHAFT LINING WALL POUR-4 REINFORCEMENT LAYOUT
SCALE 1:50



SECTION-1
SCALE 1:25



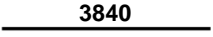
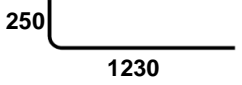
ISSUE	DATE	AMENDMENT	BY	APPD.
0	16/02/24	ISSUED FOR APPROVAL		

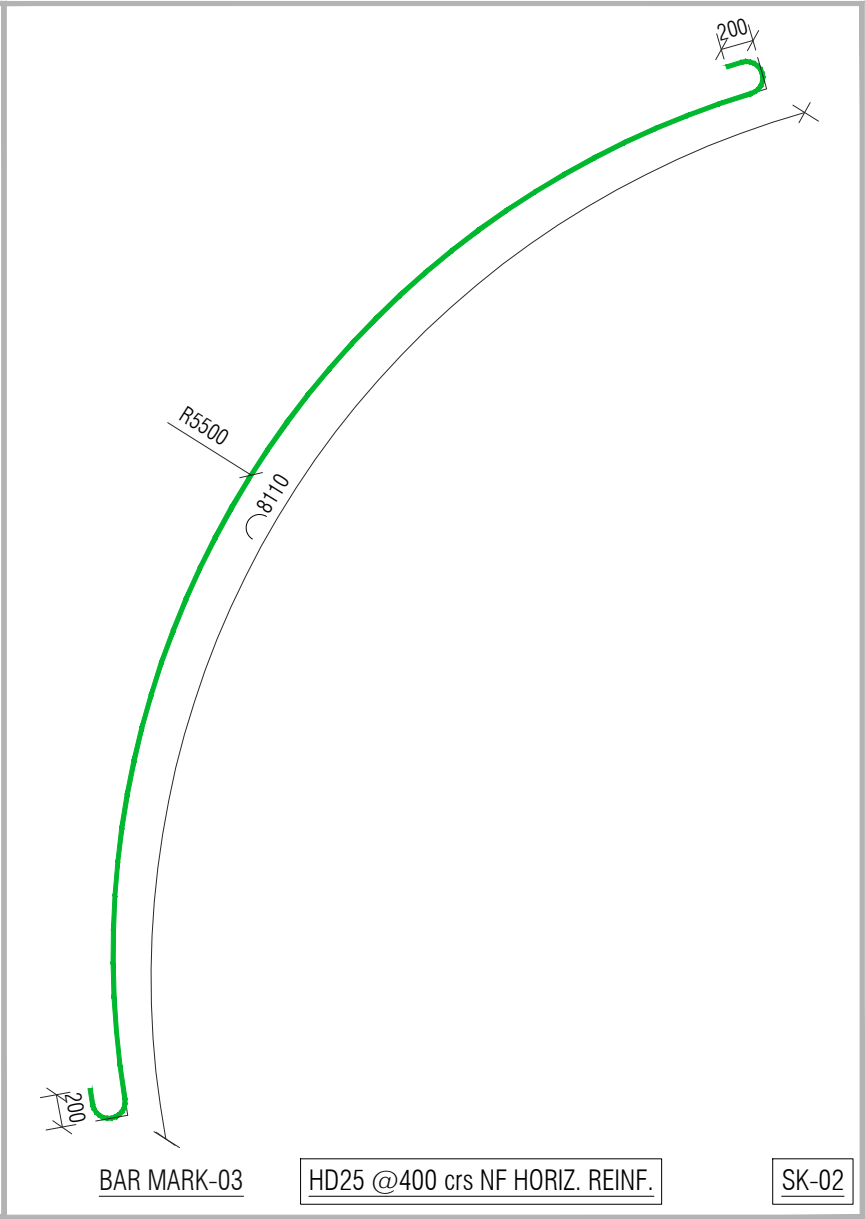
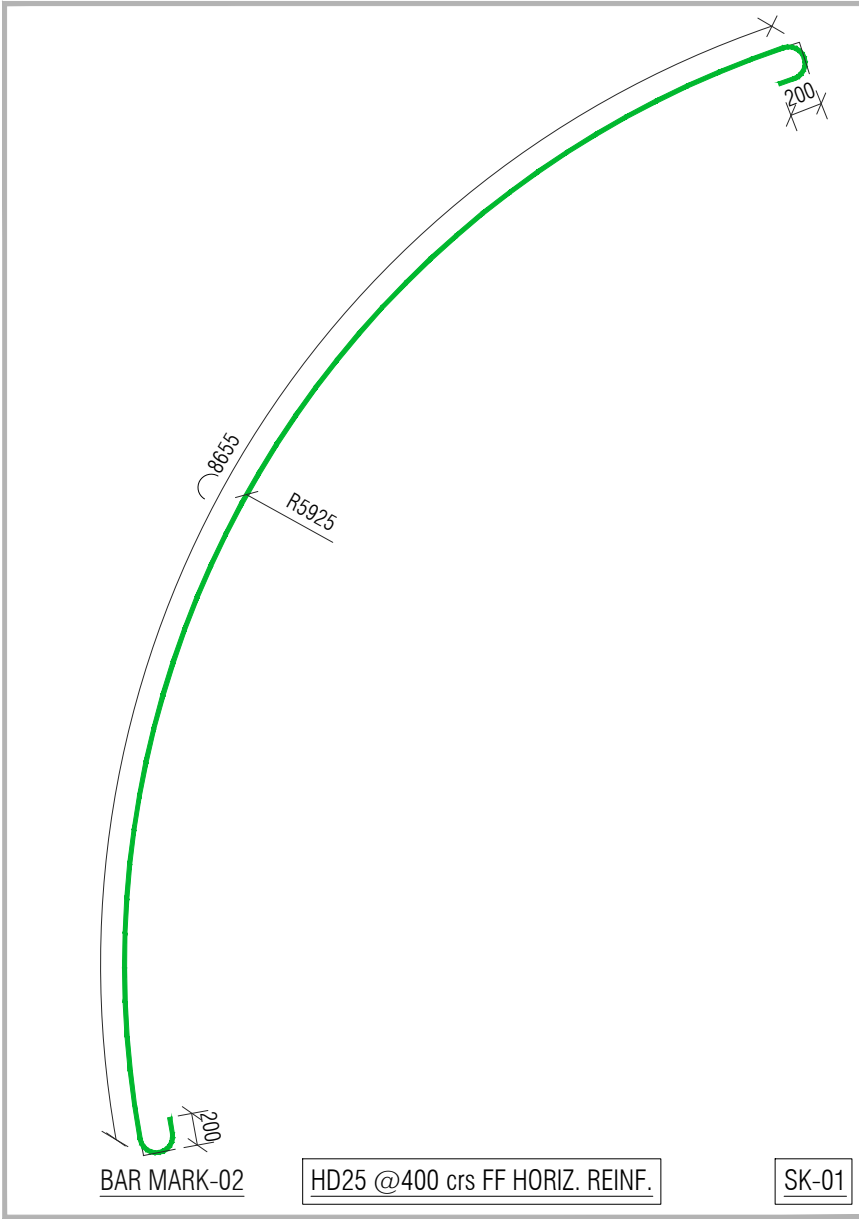
DESIGNED	DES. CHECKED	DRAWN	DWG. CHECKED	PROJECT LEADER	INFRASTR APP'D
		AT	HP		

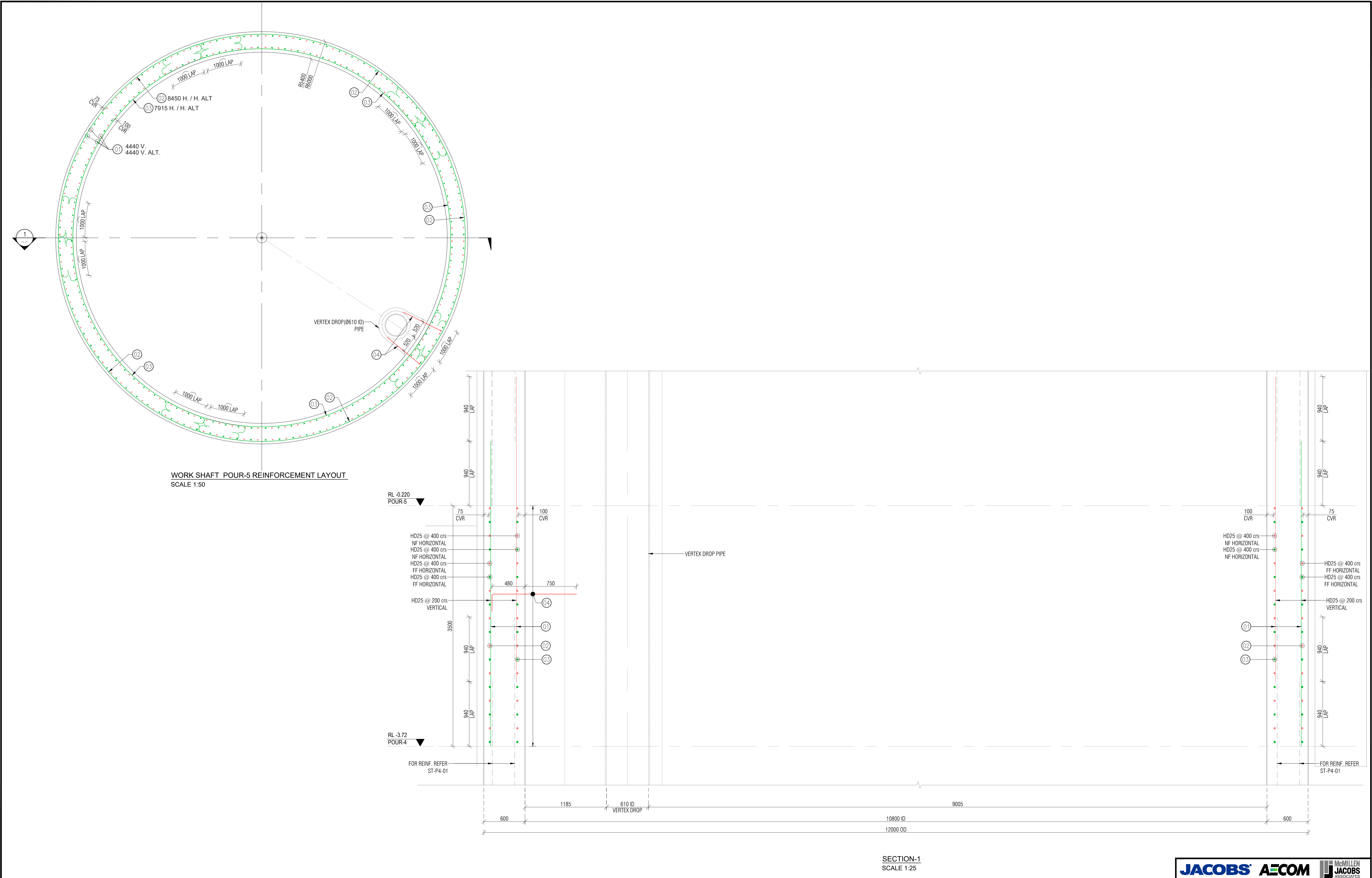
Watercare
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WORK SHAFT POUR-4 REINFORCEMENT LAYOUT

CAD FILE		DATE 16/02/2024	
ORIGINAL SCALE A1		CONTRACT No. 6661	
SCALE AS SHOWN			
REF. No.		ISSUE	
DWG. No.	ST-P4-01	0	

Date : 16 / 02 / 2024					Contract Drawing		REV.																											
Project : Western springs steel for permanent Shaft lining lift					2012053.001 2012053.002 2012053.003 2011822.003 2011822.004 2011822.021		C B C F C A																											
Drawing Description: WORK SHAFT POUR-4 REINFORCEMENT DETAILS				REV.																														
Drawing Number:			ST-P4-01		0																													
BBS Nubmber:			BBS-ST-P4-01		0																													
BAR MARK	NOTES	SIZE		QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG																											
01	HD25 @ 200crs VERT. & VERT. ALT. BARS	HD	25	368	3840		5445.97																											
02	HD25 @ 400crs FF HORIZ. & HORIZ. STAGG. BARS	HD	25	75	8855	REFER SK-01	2559.44																											
03	HD25 @ 400crs NF HORIZ. & HORIZ. STAGG. BARS	HD	25	75	8310	REFER SK-02	2401.92																											
04	HD16 @ 500crs STARTER BARS	HD	16	14	1430		31.60																											
						Total Weight	10438.93																											
NOTE: (1) All dimension lengths mentioned in the Shape are taken as out-to-out dimensions.																																		
<table border="1"> <thead> <tr> <th colspan="3">Summary Of Bars</th> </tr> <tr> <th>Size</th> <th>Weight</th> <th></th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.00</td> <td></td> </tr> <tr> <td>12</td> <td>0.00</td> <td></td> </tr> <tr> <td>16</td> <td>31.60</td> <td></td> </tr> <tr> <td>20</td> <td>0.00</td> <td></td> </tr> <tr> <td>25</td> <td>10407.33</td> <td></td> </tr> <tr> <td>32</td> <td>0.00</td> <td></td> </tr> <tr> <td>Total Weight</td> <td>10438.93</td> <td></td> </tr> </tbody> </table>								Summary Of Bars			Size	Weight		10	0.00		12	0.00		16	31.60		20	0.00		25	10407.33		32	0.00		Total Weight	10438.93	
Summary Of Bars																																		
Size	Weight																																	
10	0.00																																	
12	0.00																																	
16	31.60																																	
20	0.00																																	
25	10407.33																																	
32	0.00																																	
Total Weight	10438.93																																	





WORK SHAFT POUR-5 REINFORCEMENT LAYOUT
SCALE 1:50

SECTION-1
SCALE 1:25



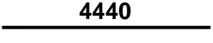
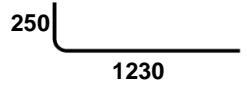
ISSUE	DATE	AMENDMENT	BY	APPD.
0	16/02/24	ISSUED FOR APPROVAL		

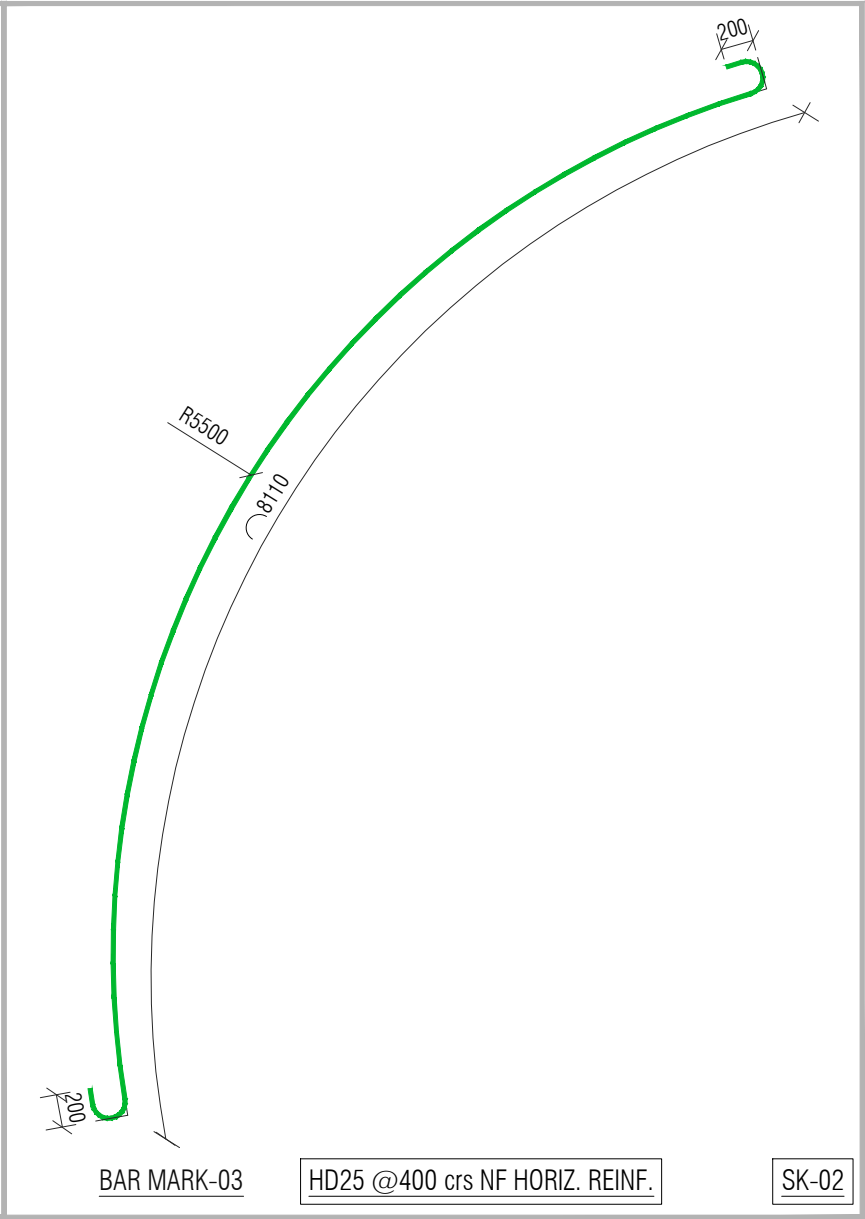
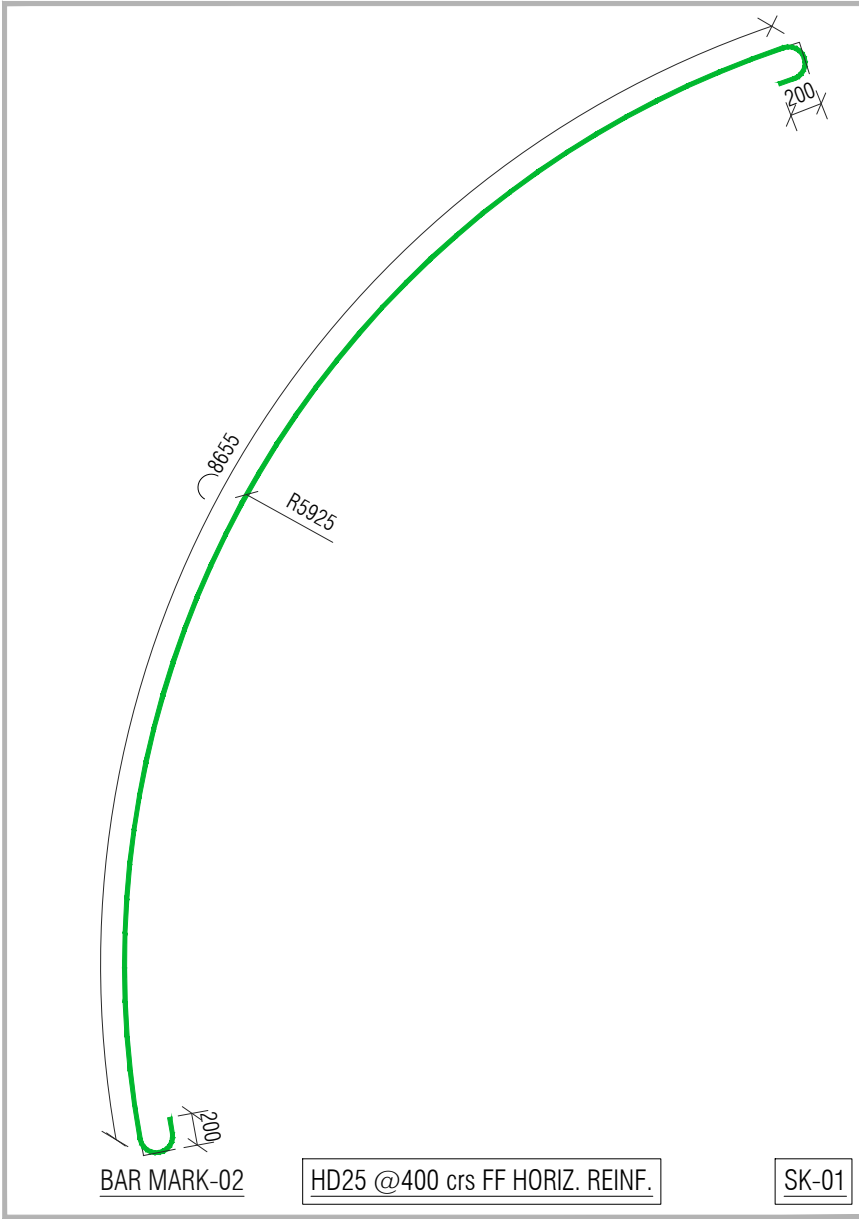
DESIGNED	DES. CHECKED	DRAWN	DWG. CHECKED	PROJECT LEADER	INFRAS'T'R APP'D
			AT	HP	

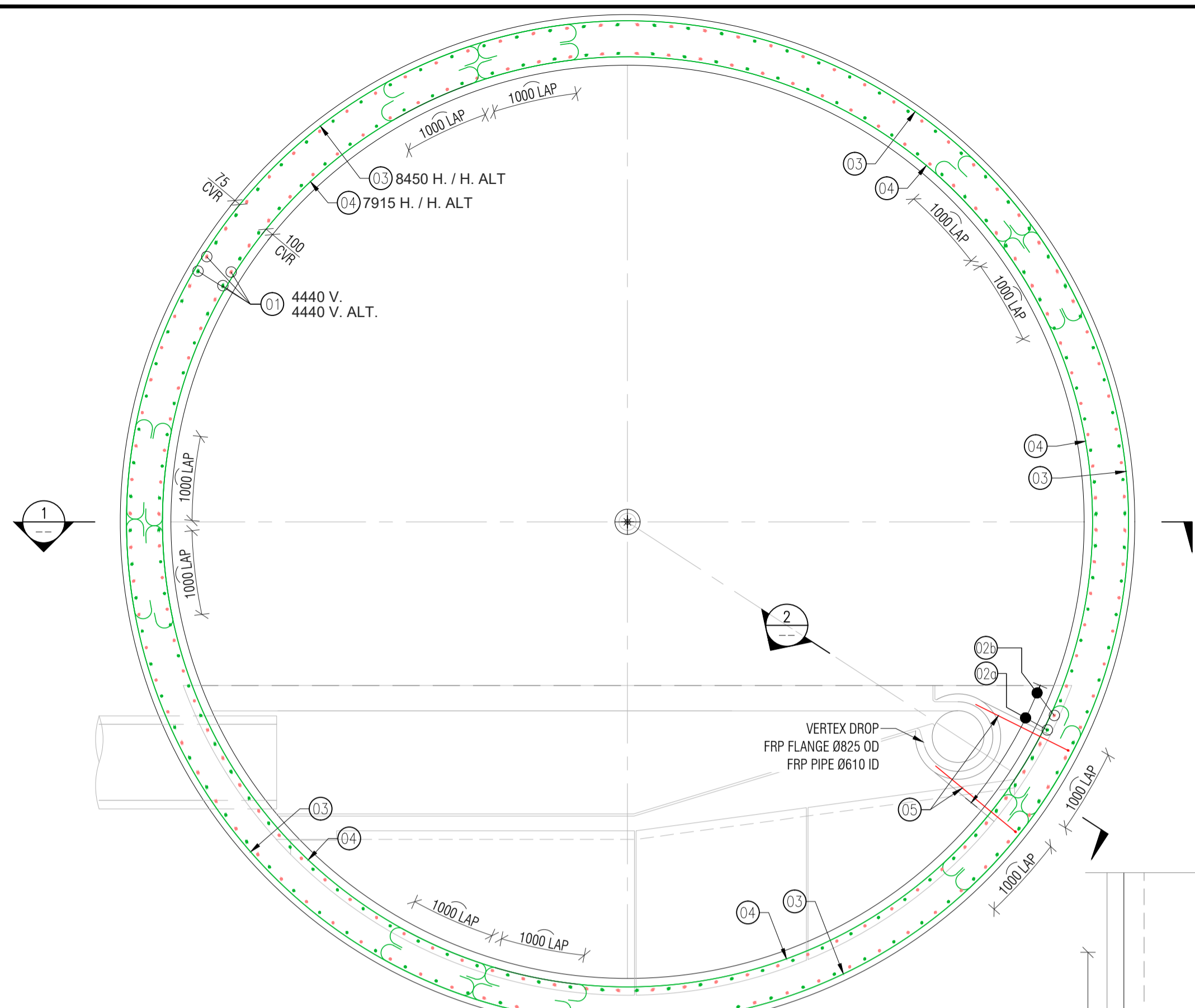


WORK SHAFT POUR-5 REINFORCEMENT LAYOUT

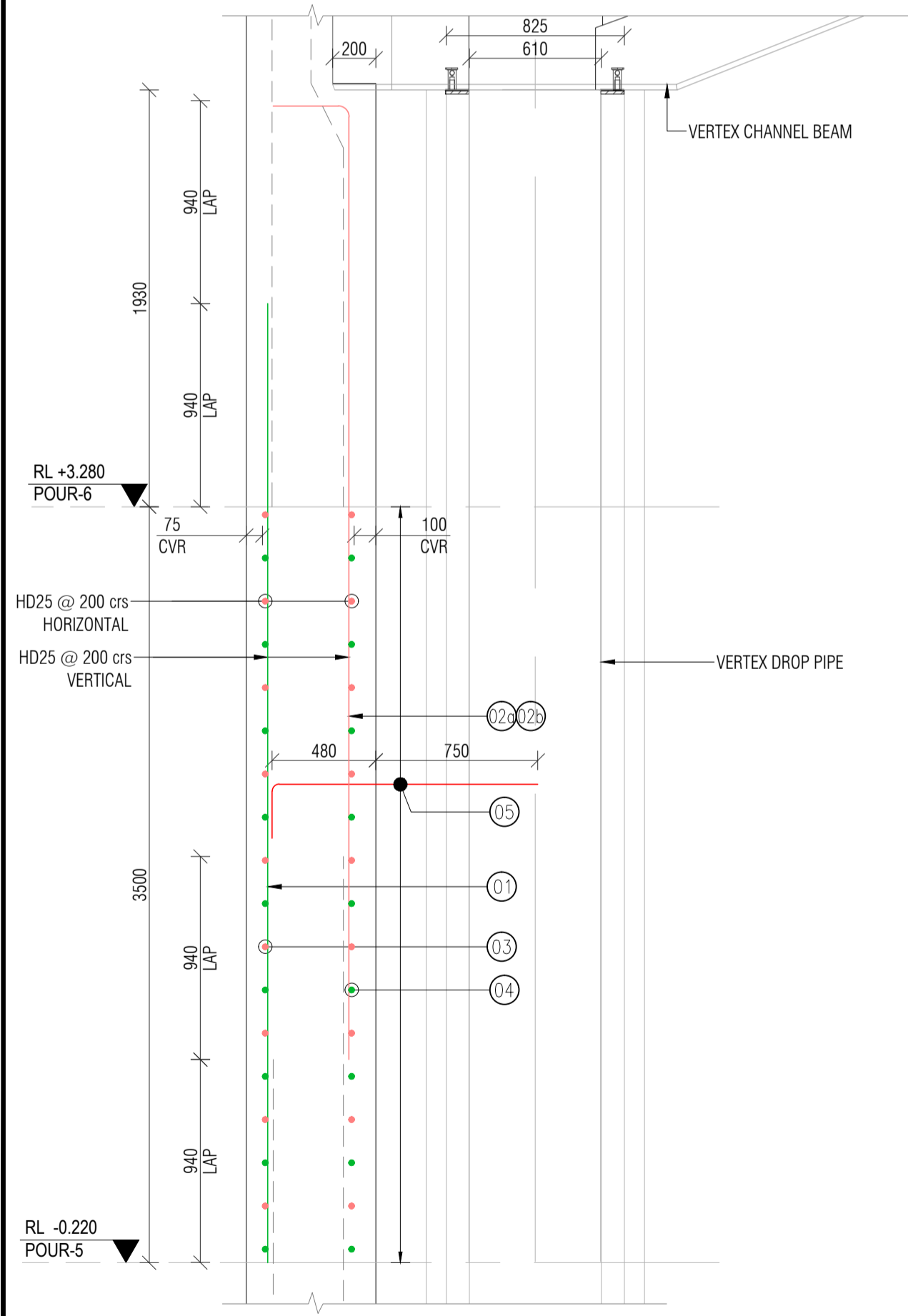
CAD FILE		DATE 16/02/2024	
ORIGINAL SCALE A1		CONTRACT No. 6661	
SCALE AS SHOWN			
REF. No.		ISSUE	
DWG. No.	ST-P5-01		0

Date : 16 / 02 / 2024					Contract Drawing		REV.																											
Project : Western springs steel for permanent Shaft lining lift					2012053.001 2012053.002 2012053.003 2011822.003 2011822.004 2011822.021		C B C F C A																											
Drawing Description: WORK SHAFT POUR-5 REINFORCEMENT DETAILS					REV.																													
Drawing Number:			ST-P5-01		0																													
BBS Nubmber:			BBS-ST-P5-01		0																													
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG																												
01	HD25 @ 200crs VERT. & VERT. ALT. BARS	HD 25	368	4440		6296.90																												
02	HD25 @ 400crs FF HORIZ. & HORIZ. STAGG. BARS	HD 25	90	8855	REFER SK-01	3071.33																												
03	HD25 @ 400crs NF HORIZ. & HORIZ. STAGG. BARS	HD 25	90	8310	REFER SK-02	2882.30																												
04	HD16 @ 500crs STARTER BARS	HD 16	16	1430		36.12																												
					Total Weight		12286.65																											
NOTE: (1) All dimension lengths mentioned in the Shape are taken as out-to-out dimensions.																																		
<table border="1"> <thead> <tr> <th colspan="3">Summary Of Bars</th> </tr> <tr> <th>Size</th> <th>Weight</th> <th></th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.00</td> <td></td> </tr> <tr> <td>12</td> <td>0.00</td> <td></td> </tr> <tr> <td>16</td> <td>36.12</td> <td></td> </tr> <tr> <td>20</td> <td>0.00</td> <td></td> </tr> <tr> <td>25</td> <td>12250.53</td> <td></td> </tr> <tr> <td>32</td> <td>0.00</td> <td></td> </tr> <tr> <td>Total Weight</td> <td>12286.65</td> <td></td> </tr> </tbody> </table>								Summary Of Bars			Size	Weight		10	0.00		12	0.00		16	36.12		20	0.00		25	12250.53		32	0.00		Total Weight	12286.65	
Summary Of Bars																																		
Size	Weight																																	
10	0.00																																	
12	0.00																																	
16	36.12																																	
20	0.00																																	
25	12250.53																																	
32	0.00																																	
Total Weight	12286.65																																	

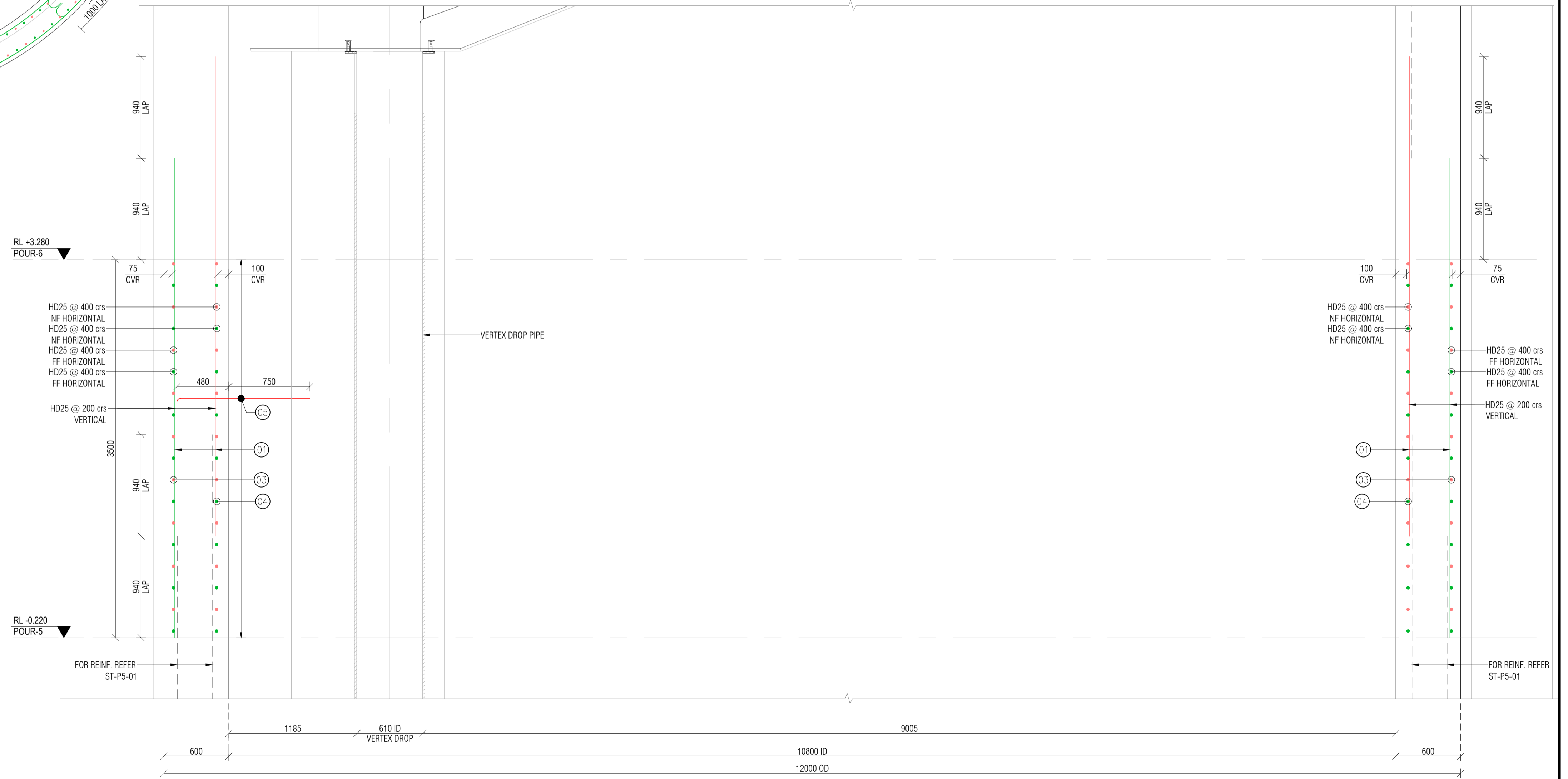




WORK SHAFT LINING WALL POUR-6 REINFORCEMENT LAYOUT
SCALE 1:50



SECTION-2
SCALE 1:25



SECTION-1
SCALE 1:25



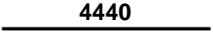
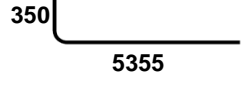
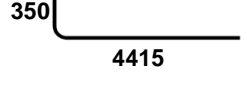
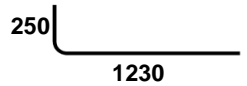
ISSUE	DATE	AMENDMENT	BY	APPD.
0	17/02/24	ISSUED FOR APPROVAL		

DESIGNED	DES. CHECKED	DRAWN	DWG. CHECKED	PROJECT LEADER	INFRASTR'R APP'D
			AT	HP	

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WORK SHAFT LINING WALL POUR-6 REINFORCEMENT LAYOUT

CAD FILE	DATE	CONTRACT No.
	17/02/2024	6661
REF. No.		ISSUE
DWG. No.	ST-P6-01	0

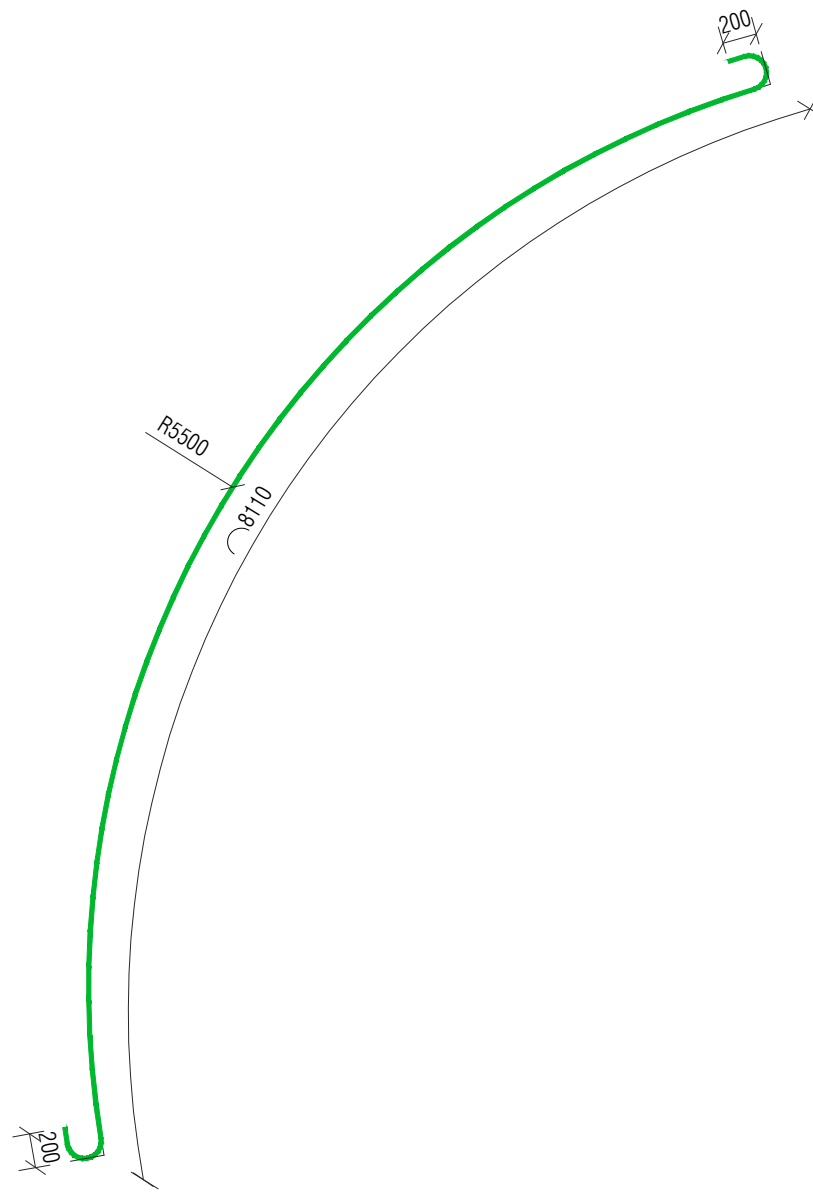
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Project : Western springs steel for permanent Shaft lining lift					2012053.001 2012053.002 2012053.003 2011822.003 2011822.015 2011822.016 2011822.017 2011822.021		C B C F B B B A																											
Drawing Description: WORK SHAFT POUR-6 REINFORCEMENT DETAILS					REV.																													
Drawing Number:			ST-P6-01		0																													
BBS Nummber:			BBS-ST-P6-01		0																													
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG																												
01	HD25 @ 400crs VERT. & VERT. STGG. BARS	HD 25	358	4440		6125.79																												
02a	HD25 @ 400crs VERT. BARS	HD 25	5	5655		108.97																												
02b	HD25 @ 400crs VERT. STAGG. BARS	HD 25	5	4715		90.85																												
03	HD25 @ 400crs FF HORIZ. & HORIZ. STAGG. BARS	HD 25	90	8855	REFER SK-01	3071.33																												
04	HD25 @ 400crs NF HORIZ. & HORIZ. STAGG. BARS	HD 25	90	8310	REFER SK-02	2882.30																												
05	HD16 @ 500crs STARTER BARS	HD 16	16	1430		36.12																												
					Total Weight		12315.36																											
NOTE: (1) All dimension lengths mentioned in the Shape are taken as out-to-out dimensions.																																		
<table border="1"> <thead> <tr> <th colspan="3">Summary Of Bars</th> </tr> <tr> <th>Size</th> <th>Weight</th> <th></th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.00</td> <td></td> </tr> <tr> <td>12</td> <td>0.00</td> <td></td> </tr> <tr> <td>16</td> <td>36.12</td> <td></td> </tr> <tr> <td>20</td> <td>0.00</td> <td></td> </tr> <tr> <td>25</td> <td>12279.24</td> <td></td> </tr> <tr> <td>32</td> <td>0.00</td> <td></td> </tr> <tr> <td>Total Weight</td> <td>12315.36</td> <td></td> </tr> </tbody> </table>								Summary Of Bars			Size	Weight		10	0.00		12	0.00		16	36.12		20	0.00		25	12279.24		32	0.00		Total Weight	12315.36	
Summary Of Bars																																		
Size	Weight																																	
10	0.00																																	
12	0.00																																	
16	36.12																																	
20	0.00																																	
25	12279.24																																	
32	0.00																																	
Total Weight	12315.36																																	



BAR MARK-03

HD25 @400 crs FF HORIZ. REINF.

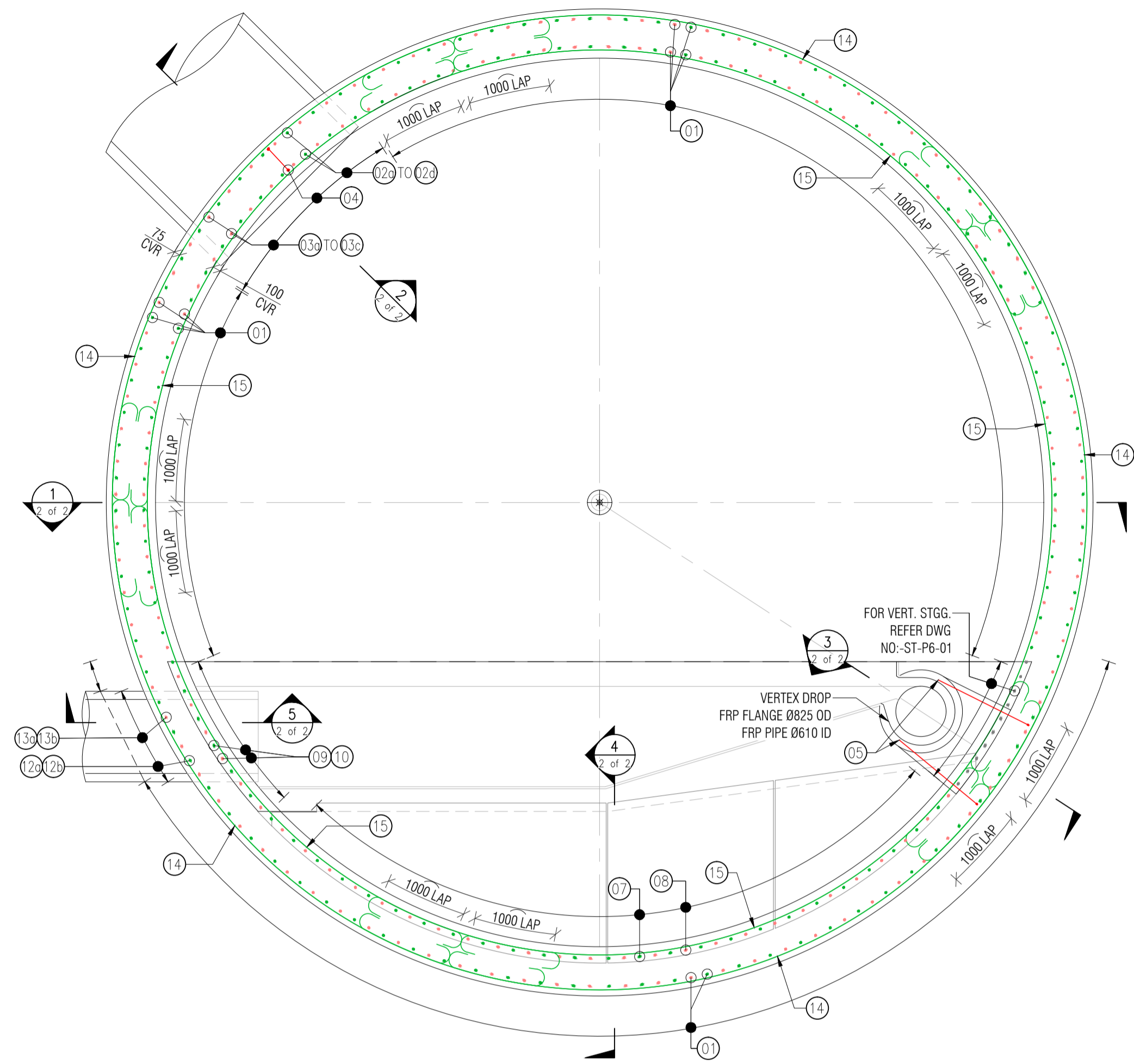
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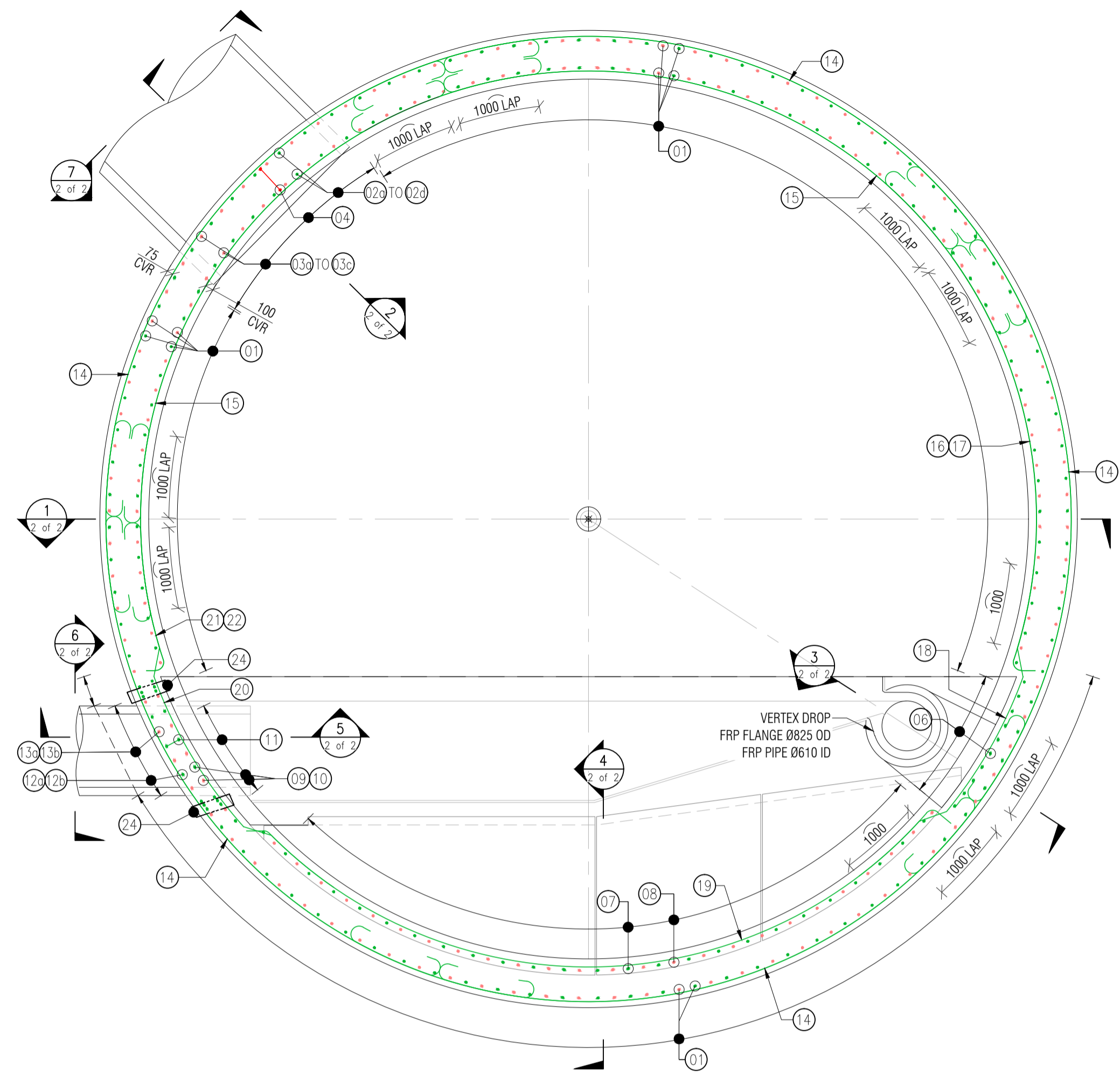
BAR MARK-04

HD25 @400 crs FF HORIZ. REINF.

SK-02



WORK SHAFT POUR-7 REINFORCEMENT LAYOUT AT BELOW VORTEX BRIDGE
SCALE 1:50



WORK SHAFT POUR-7 REINFORCEMENT LAYOUT AT VORTEX BRIDGE
SCALE 1:50

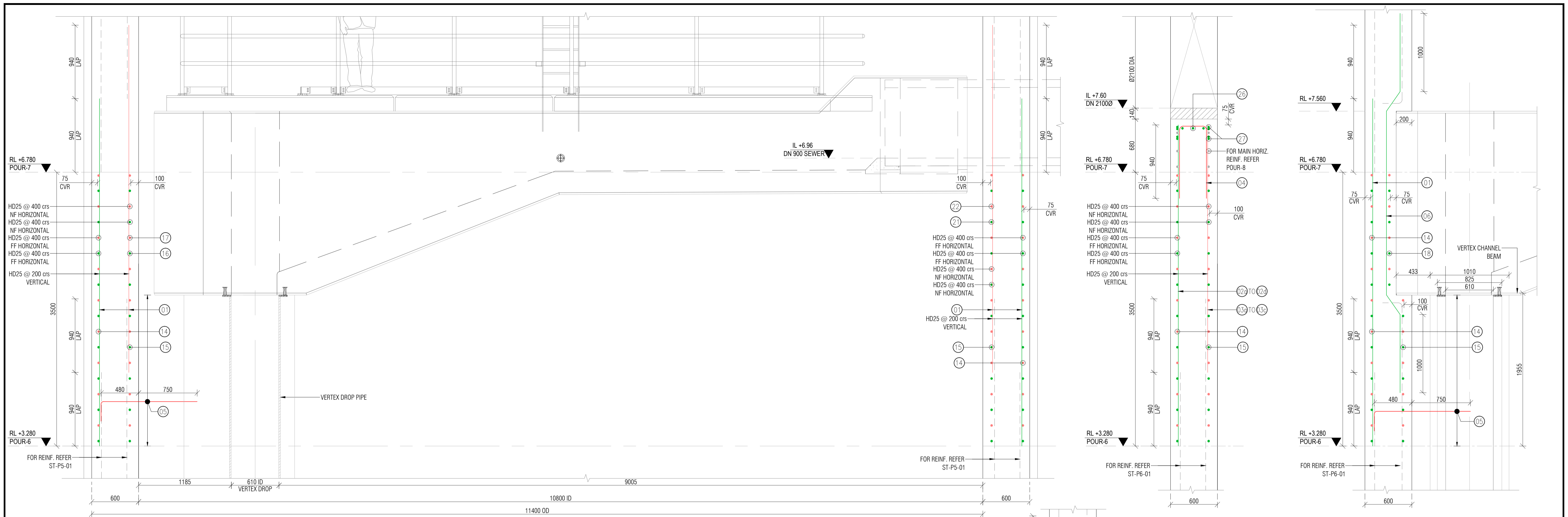
ISSUE	DATE	AMENDMENT	BY	APPD.
0	20/02/24	ISSUED FOR APPROVAL		

DESIGNED	
DES. CHECKED	
DRAWN	AT
DWG. CHECKED	HP
PROJECT LEADER	
INFRASTR'R APP'D	
	BY
	DATE



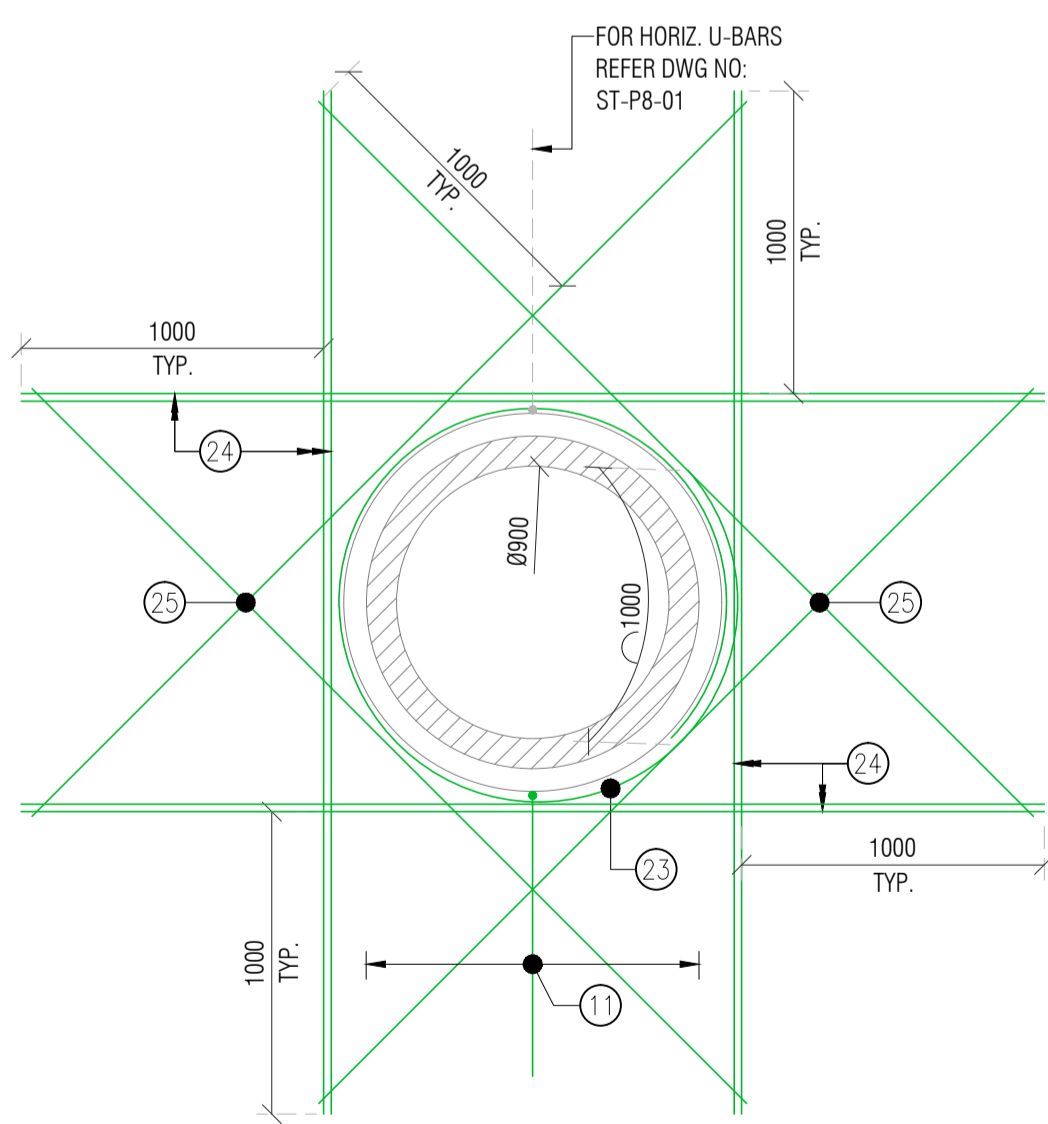
WORK SHAFT POUR-7 REINFORCEMENT LAYOUT

CAD FILE	DATE 20/02/2024
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REF. No.	ISSUE
DWG. No. ST-P7-01 (1 of 2)	0

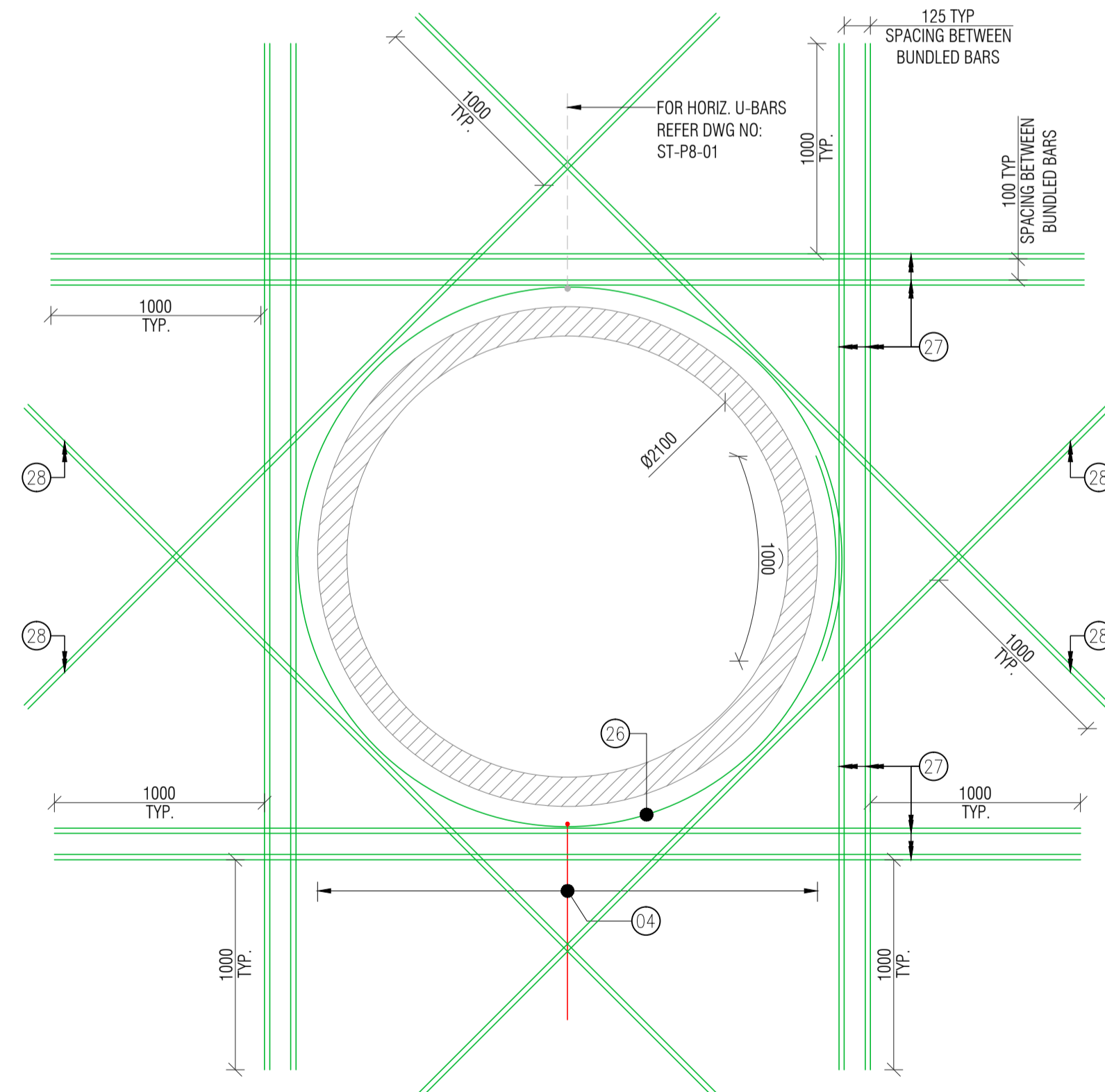


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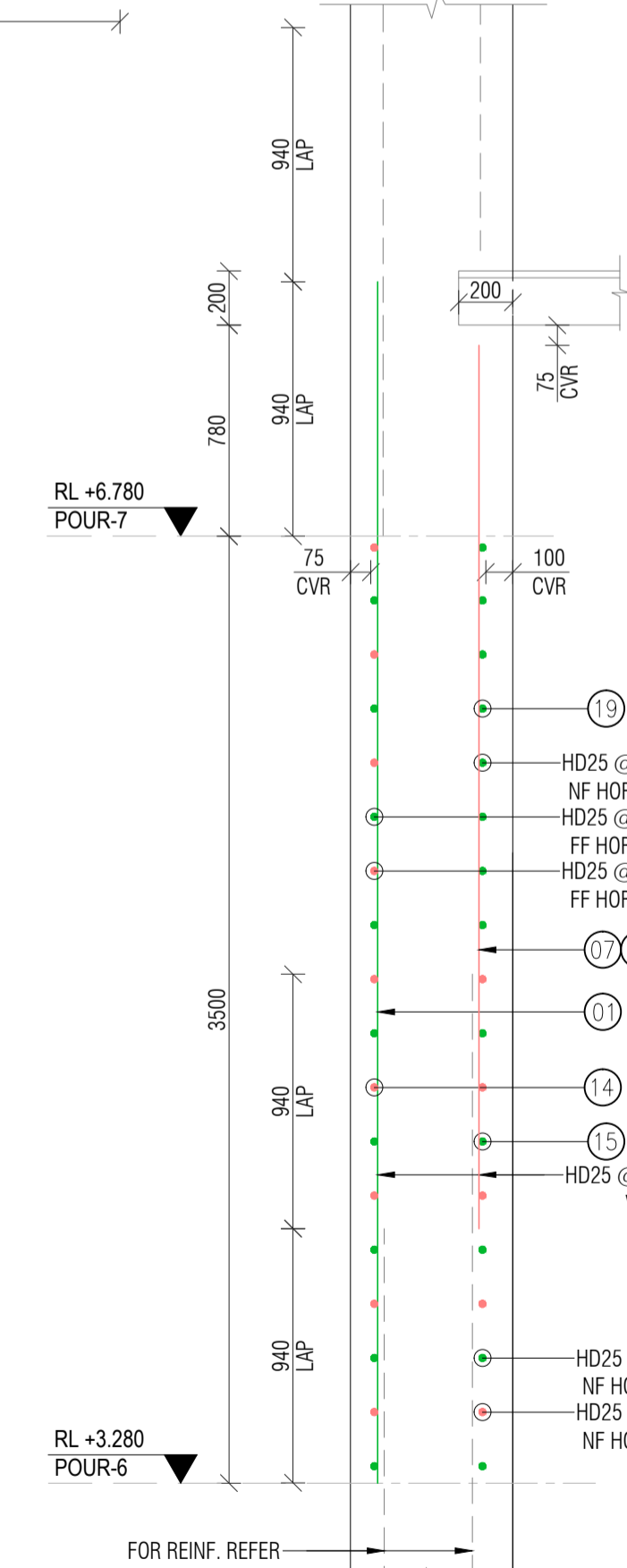
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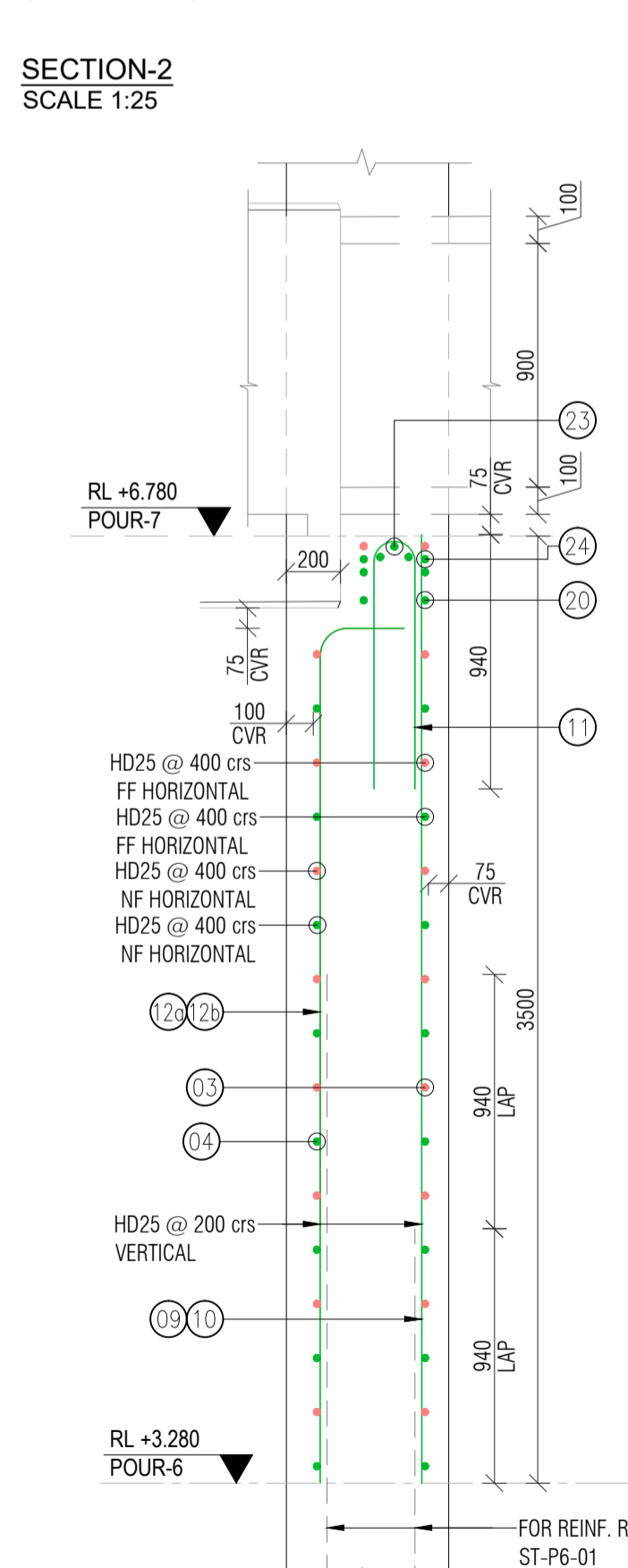
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SECTION-07
SCALE 1:25



SECTION-04
SCALE 1:25



SECTION-05
SCALE 1:25



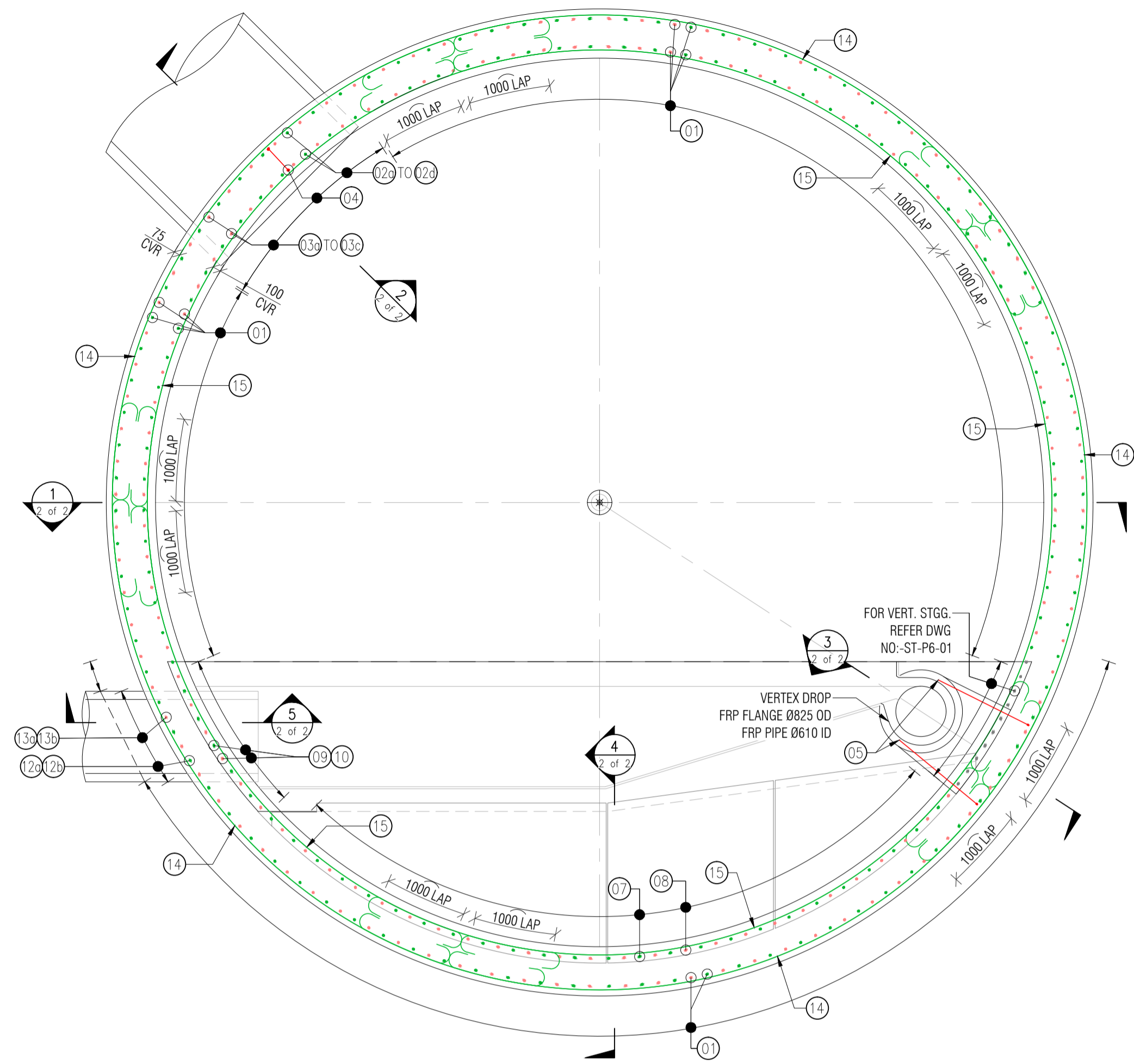
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		AT	HP		

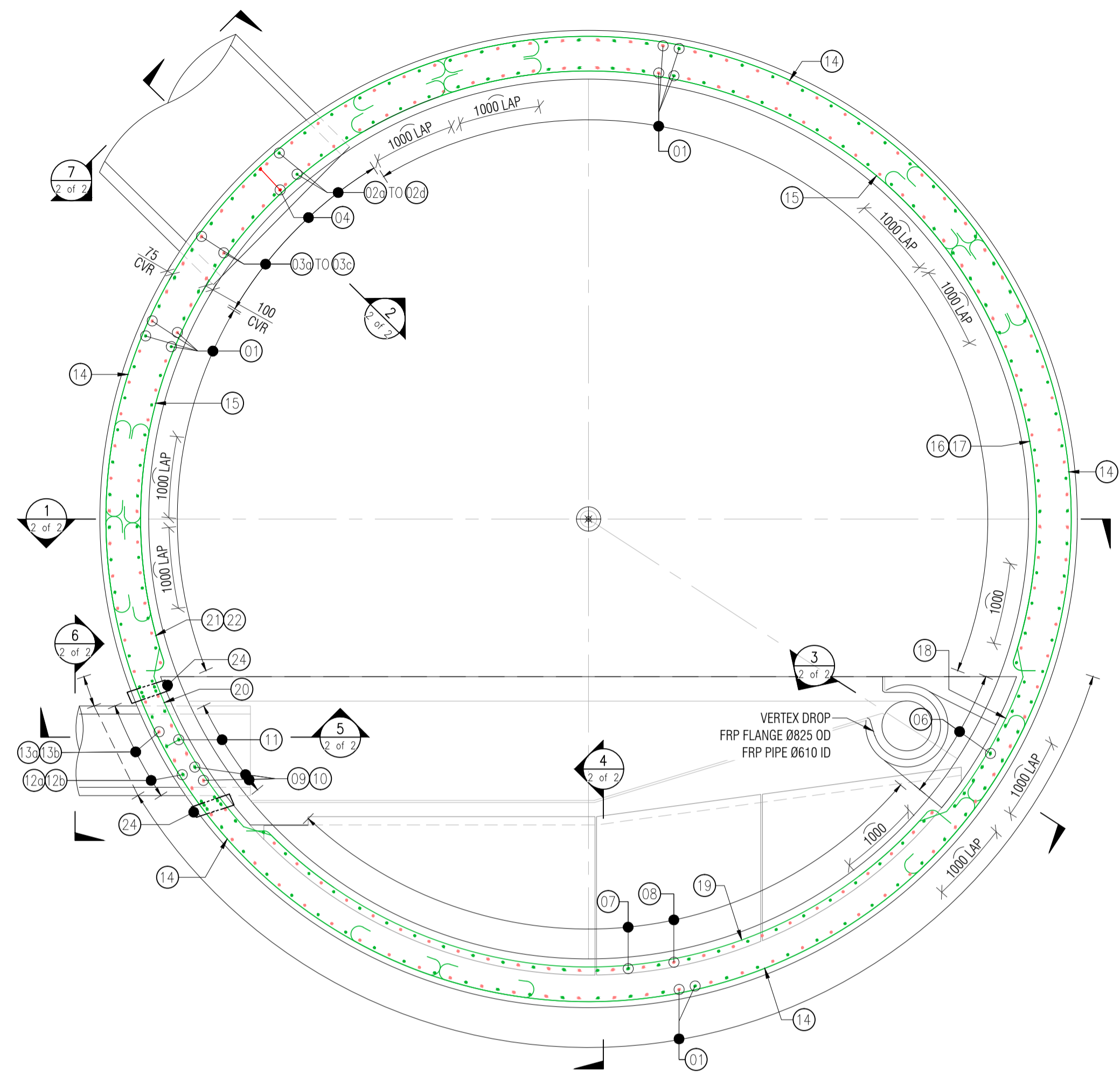


WORK SHAFT POUR-7 REINFORCEMENT LAYOUT

CAD FILE	DATE	CONTRACT No.	ISSUE
	20/02/2024	6661	
REF. No.			
DWG. No.	ST-P7-01 (2 of 2)		0



WORK SHAFT POUR-7 REINFORCEMENT LAYOUT AT BELOW VORTEX BRIDGE
SCALE 1:50



WORK SHAFT POUR-7 REINFORCEMENT LAYOUT AT VORTEX BRIDGE
SCALE 1:50

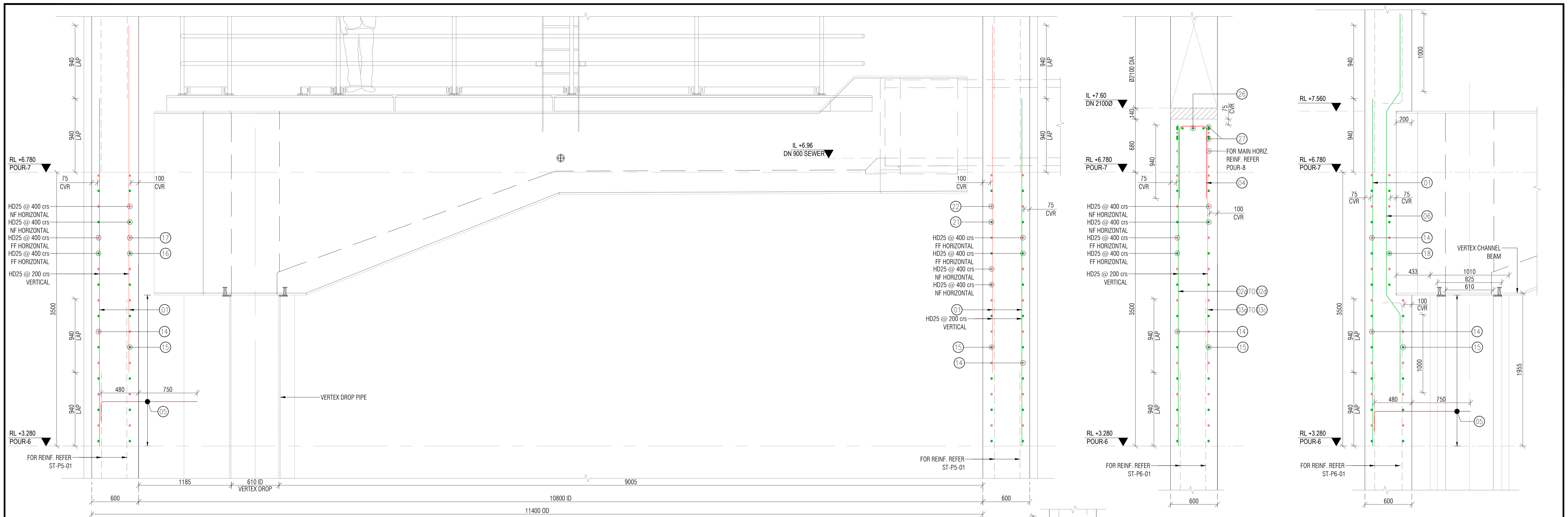
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DRAWN	AT
DWG. CHECKED	HP
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INFRASTR'R APP'D	
	BY
	DATE

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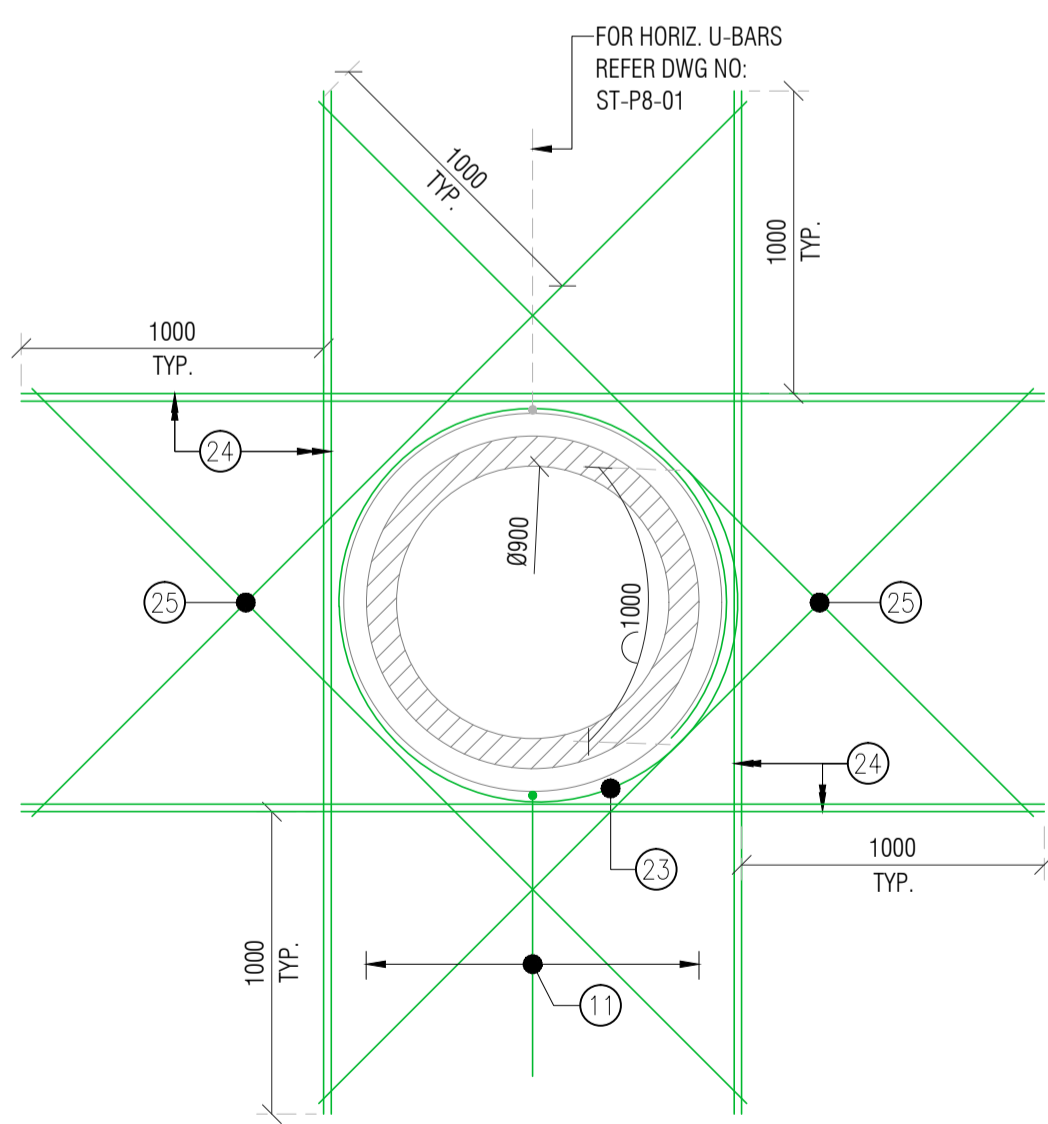
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CAD FILE	DATE 20/02/2024
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SCALE AS SHOWN	
REF. No.	ISSUE
DWG. No. ST-P7-01 (1 of 2)	0

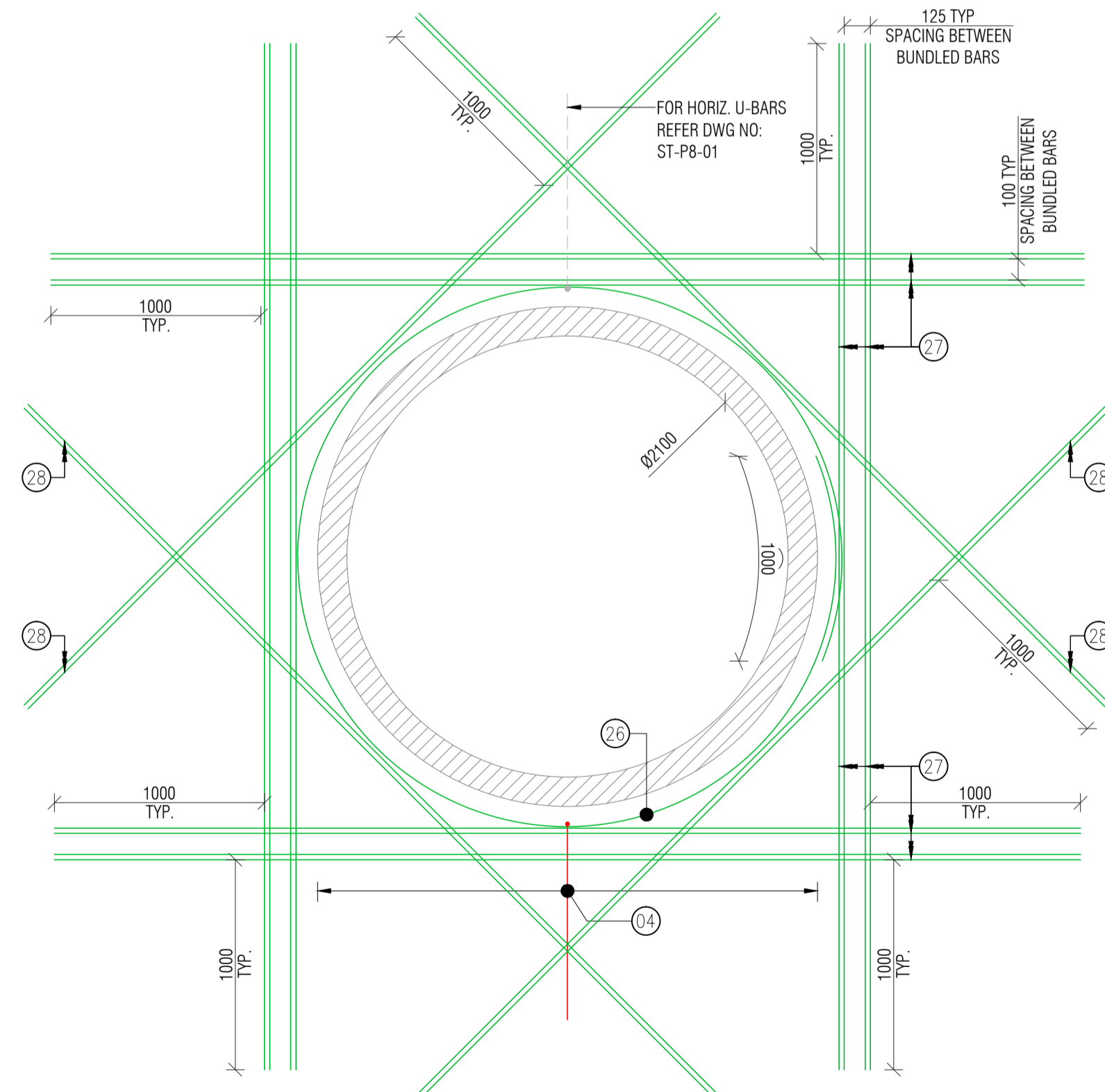


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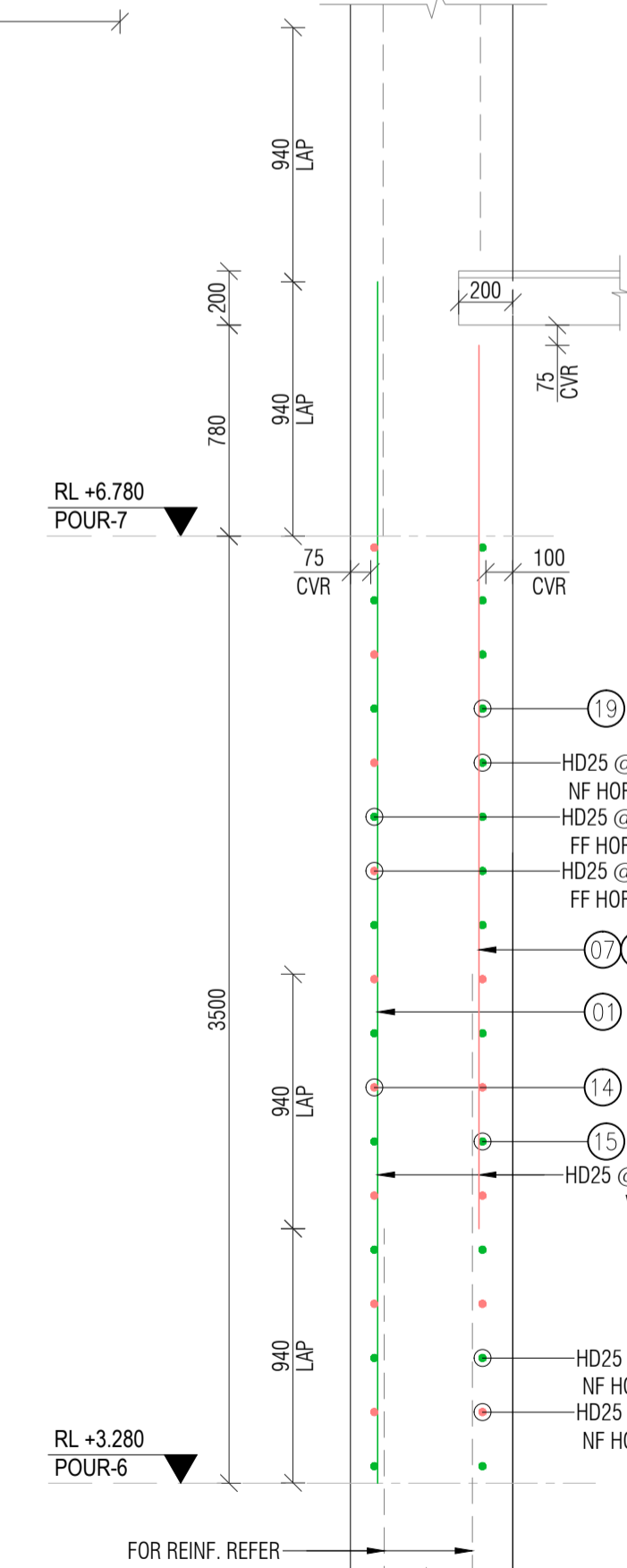
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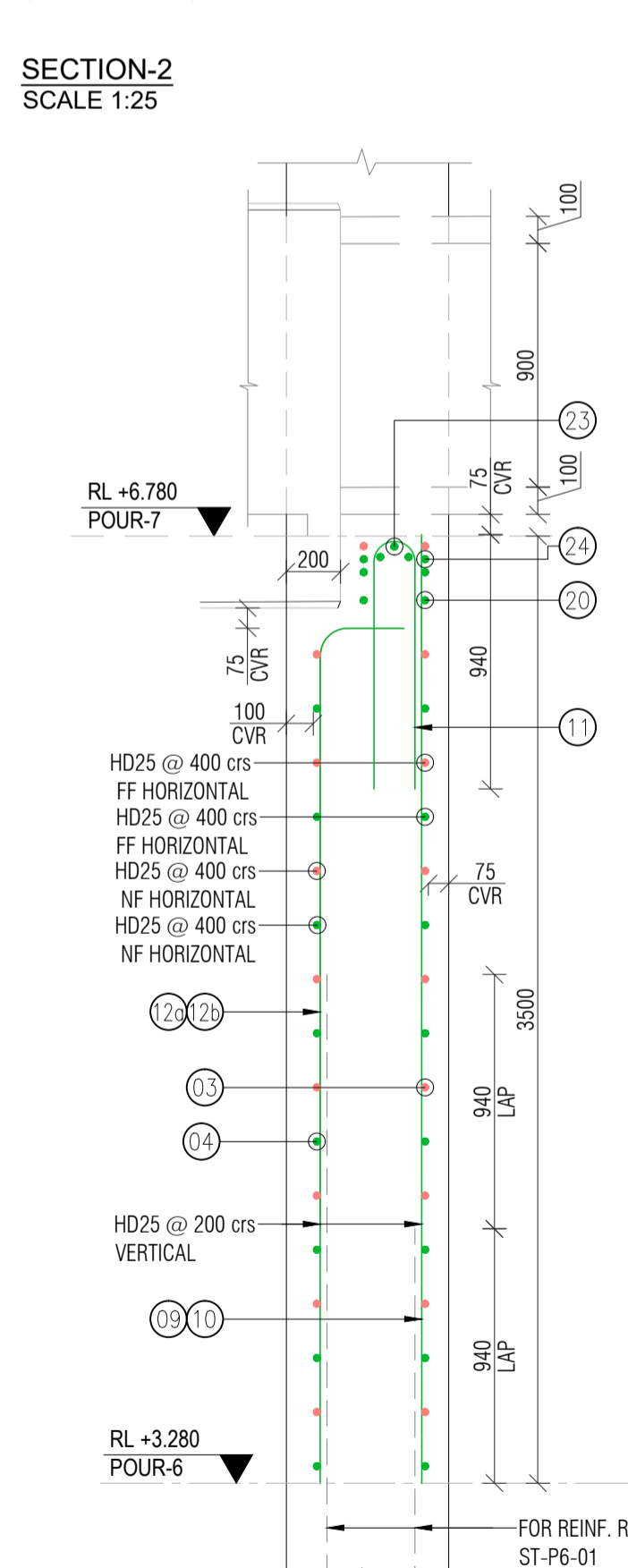
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SECTION-07
SCALE 1:25



SECTION-04
SCALE 1:25



SECTION-05
SCALE 1:25

ISSUE	DATE	AMENDMENT	BY	APPD.
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		AT	HP		

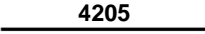
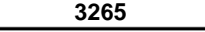
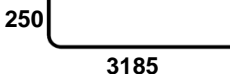
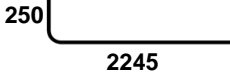
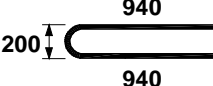
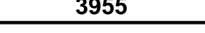
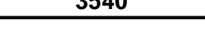
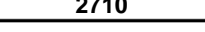
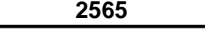
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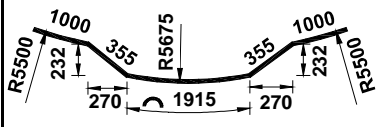
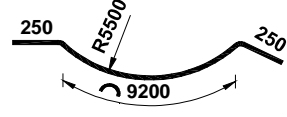
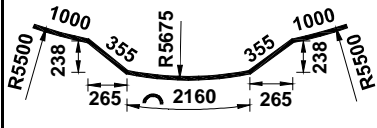
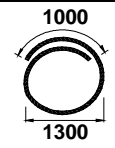
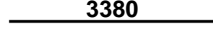
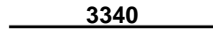
WORK SHAFT POUR-7 REINFORCEMENT LAYOUT

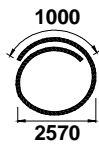
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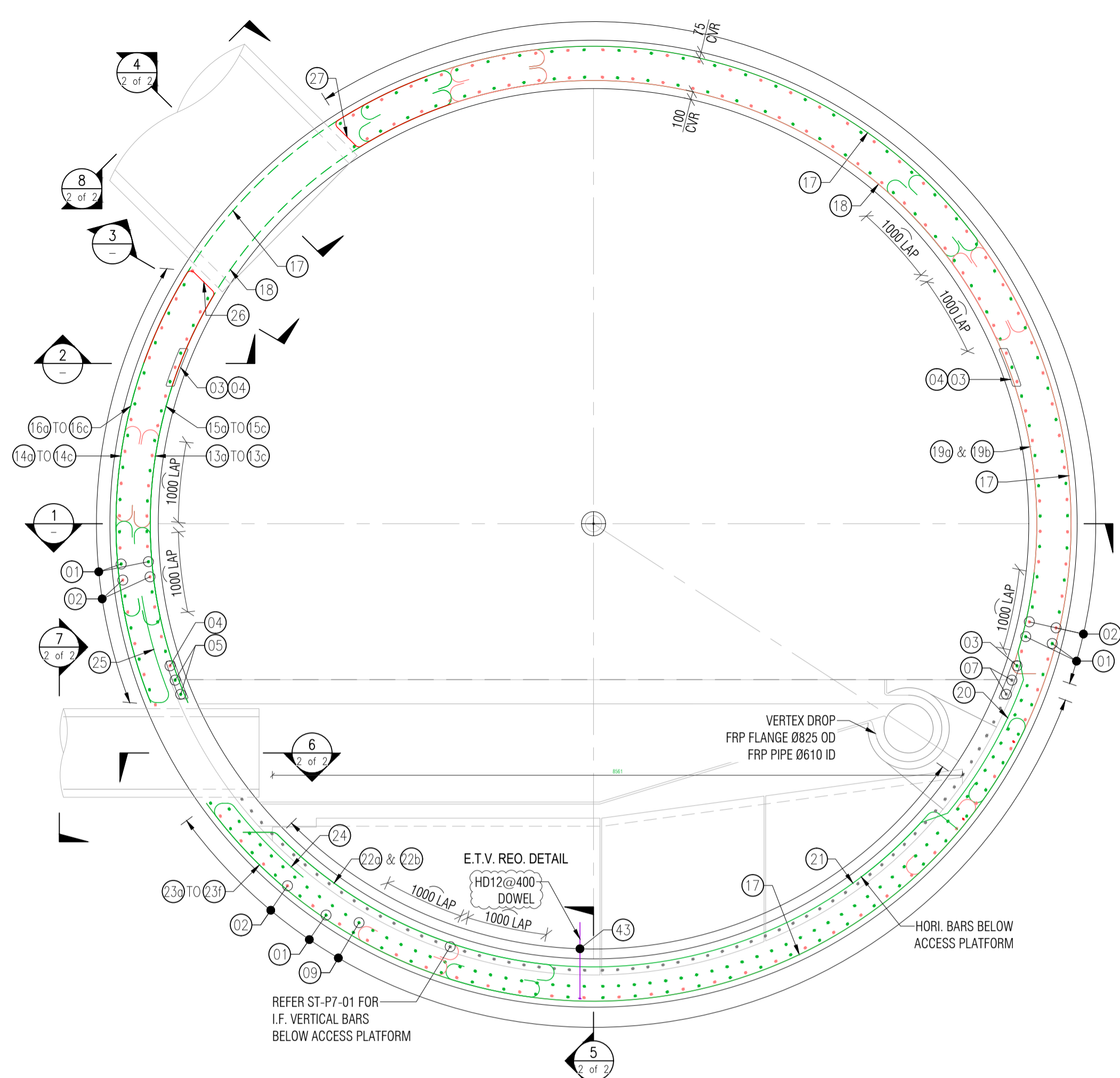


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Drawing Number:		ST-P7-01		0		
BBS Nummber:		BBS-ST-P7-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG
01	HD25 @ 400crs VERT. & VERT. STGG. BARS	HD 25	266	4440		4551.56
02a	HD25 @ 400crs VERT. BARS AT DN2100 OPENING	HD 25	4	4670		71.99
02b	HD25 @ 400crs VERT. BARS AT DN2100 OPENING	HD 25	4	4390		67.67
02c	HD25 @ 400crs VERT. BARS AT DN2100 OPENING	HD 25	4	4170		64.28
02d	HD25 @ 400crs VERT. BARS AT DN2100 OPENING	HD 25	2	4105		31.64
03a	HD25 @ 400crs VERT. STGG. BARS AT DN2100 OPENING	HD 25	4	3655		56.34
03b	HD25 @ 400crs VERT. STGG. BARS AT DN2100 OPENING	HD 25	4	3315		51.10
03c	HD25 @ 400crs VERT. STGG. BARS AT DN2100 OPENING	HD 25	4	3180		49.02
04	HD16 @ 200crs VERT. U-BARS AT DN2100 OPENING	HD 16	13	2191		44.96
05	HD16 @500crs STARTER BARS	HD 16	4	1448		9.14
06	HD25 @ 200crs NF VERT. BARS AT VORTEX	HD 25	10	4960		191.15

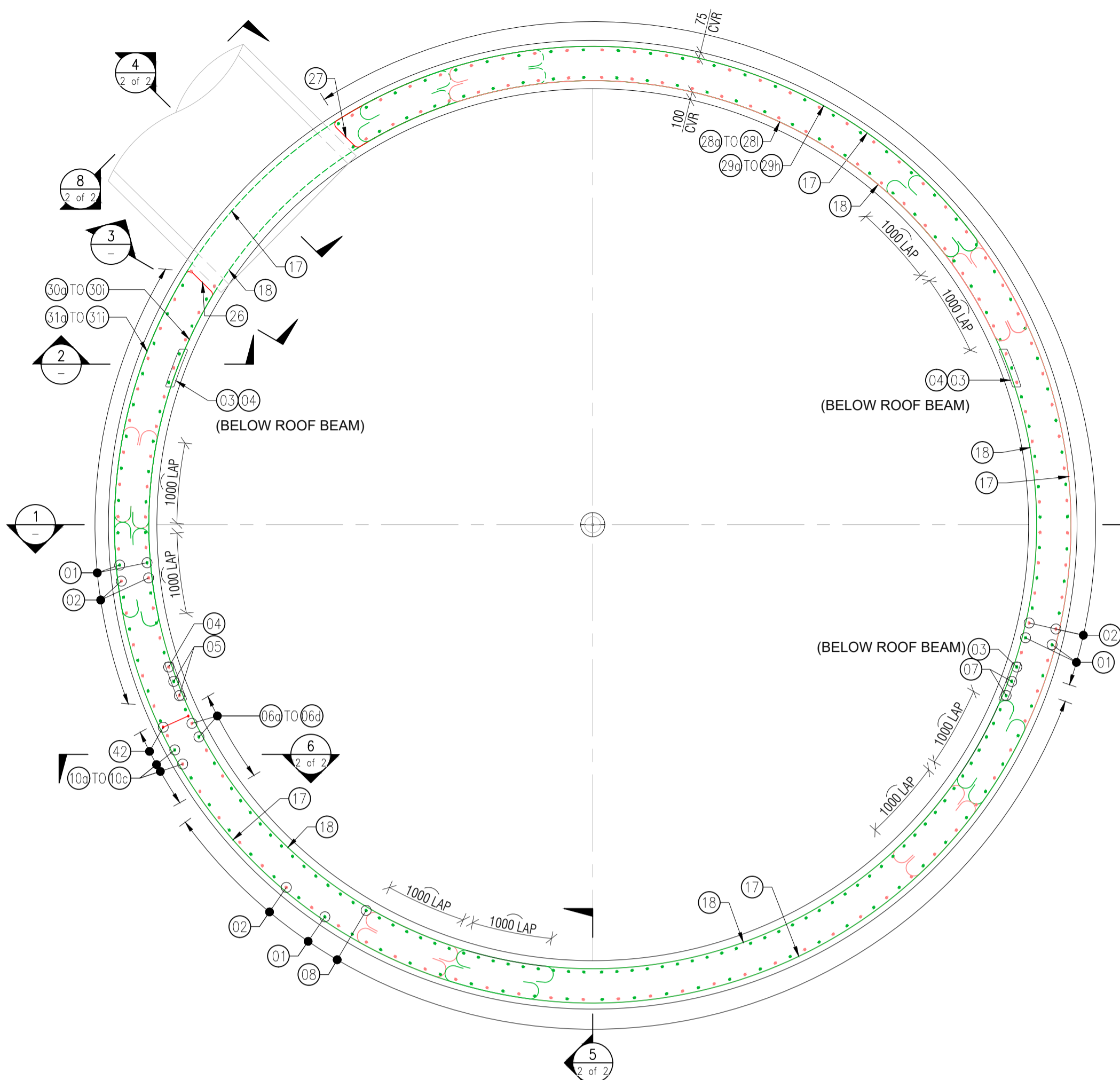
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Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2012053.001 2012053.002 2012053.003 2011822.003 2011822.015 2011822.016 2011822.017 2011822.020 2011822.021		C B C F B B B B A
Drawing Description: WORK SHAFT POUR-7 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P7-01		0		
BBS Nummber:			BBS-ST-P7-01		0		
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07	HD25 @ 400crs NF VERT. BARS AT PANEL	HD 25	25	4205		405.14	
08	HD25 @ 400crs NF VERT. STGG. BARS AT PANEL	HD 25	25	3265		314.57	
09	HD25 @ 400crs NF VERT. BARS AT DN900 OPENING	HD 25	6	3385		78.27	
10	HD25 @ 400crs NF VERT. STGG. BARS AT DN900 OPENING	HD 25	6	2445		56.54	
11	HD25 @ 200crs U-BARS AT DN900 OPENING	HD 25	7	1980		53.41	
12a	HD25 @ 400crs FF VERT. BARS AT DN900 OPENING	HD 25	2	3955		30.48	
12b	HD25 @ 400crs FF VERT. BARS AT DN900 OPENING	HD 25	2	3540		27.29	
13a	HD25 @ 400crs FF VERT. STGG. BARS AT DN900 OPENING	HD 25	2	2710		20.89	
13b	HD25 @ 400crs FF VERT. STGG. BARS AT DN900 OPENING	HD 25	1	2565		9.89	
14	HD25 @ 400crs FF HORIZ. & HORIZ. STAGG. BARS	HD 25	90	8855	REFER SK-01	3071.33	
15	HD25 @ 400crs NF HORIZ. & HORIZ. STAGG. BARS	HD 25	66	8310	REFER SK-02	2113.69	

Date: 20 / 02 / 2024				Contract Drawing		REV.
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BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG
16	HD25 @ 400crs NF HORIZ. BARS	HD 25	4	6910	REFER SK-03	106.52
17	HD25 @ 400crs NF HORIZ. STAGG. BARS	HD 25	4	5715	REFER SK-03	88.10
18	HD25 @ 200crs NF HORIZ.BARS	HD 25	8	4625		142.59
19	HD25 @ 200crs NF HORIZ.BARS	HD 25	8	9600		295.98
20	HD25 @ 200crs NF HORIZ.BARS	HD 25	8	4870		150.15
21	HD25 @ 400crs NF HORIZ. BARS	HD 25	4	2150	REFER SK-04	33.14
22	HD25 @ 400crs NF HORIZ. STAGG. BARS	HD 25	4	3370	REFER SK-04	51.95
23	3-HD25 CIRCLE BARS AT DN900 OPENING	HD 25	3	5060		58.50
24	HD25 TRIMMER BARS EF AT DN900 OPENING	HD 25	16	3380		208.42
25	HD25 DIAGONAL TRIMMER BARS EF AT DN900 OPENING	HD 25	8	3340		102.98

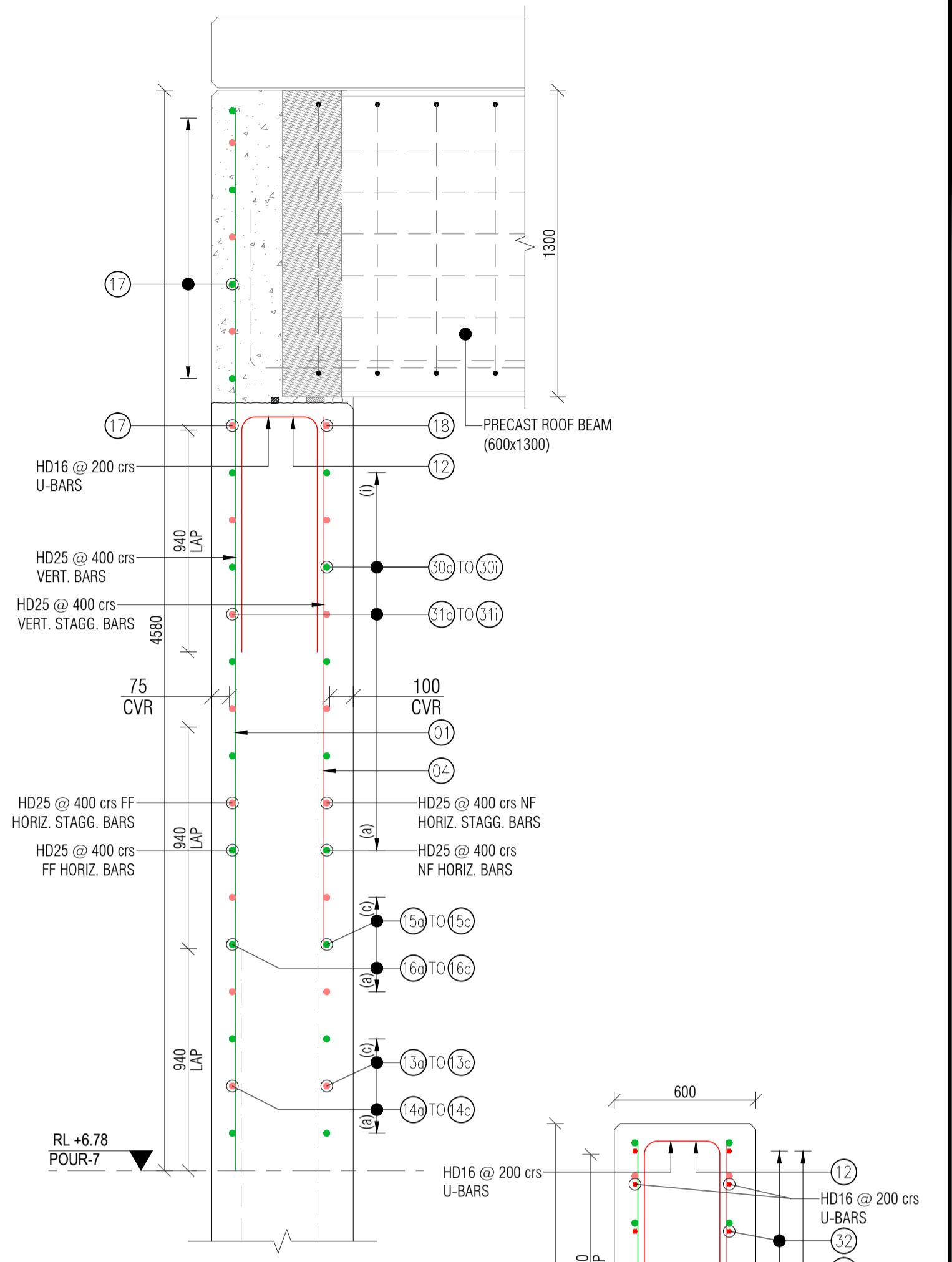
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BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG																		
26	3-HD25 CIRCLE BARS AT DN2100 OPENING	HD 25	3	9080		104.98																		
27	ADD'L 2 PAIRS HD25 BUNDLED BARS EF AT DN2100 OPENING	HD 25	32	4885	4885	602.44																		
28	HD25 BUNDLE DIAGONAL TRIMMER BARS EF AT DN2100 OPENING	HD 25	16	4660	4660	287.34																		
					Total Weight	13603.45																		
NOTE: (1) All dimension lengths mentioned in the Shape are taken as out-to-out dimensions.																								
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Summary Of Bars																								
Size	Weight																							
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20	0.00																							
25	13549.34																							
32	0.00																							
Total Weight	13603.45																							



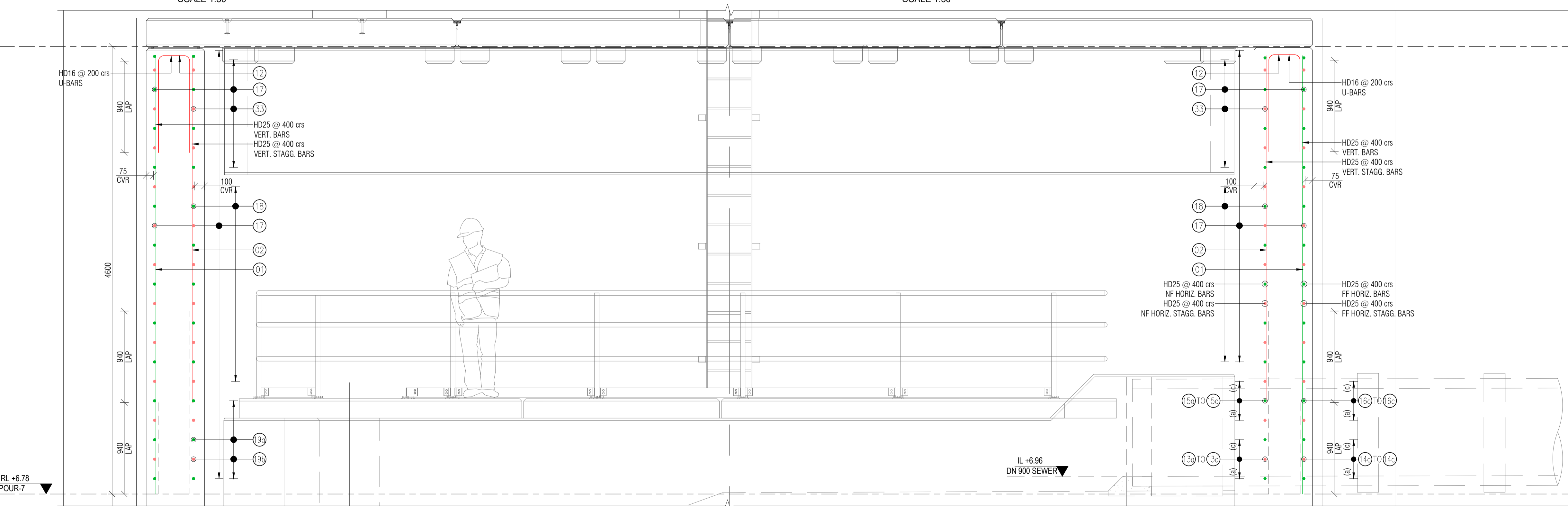
WORK SHAFT -COLLAR REINFORCING POUR-8 REINFORCEMENT LAYOUT
 PLAN AT LEVEL +7.680 OF MAIN TUNNEL
 SCALE 1:50



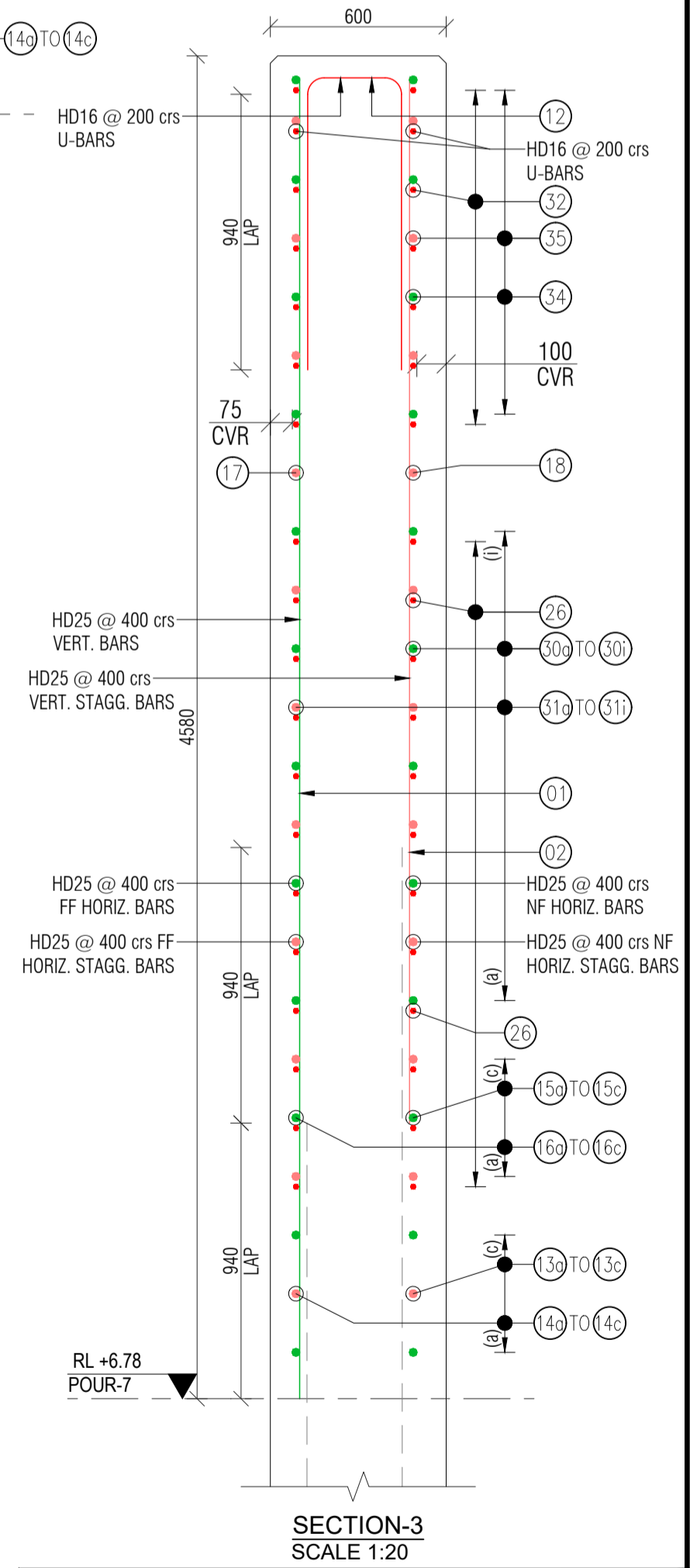
WORK SHAFT -COLLAR REINFORCING POUR-8 REINFORCEMENT LAYOUT
 PLAN AT LEVEL +8.650 OF MAIN TUNNEL
 SCALE 1:50



SECTION-2
 SCALE 1:20



SECTION-1
 SCALE 1:25



SECTION-3
 SCALE 1:20

E.T.V. - ENGINEER TO VERIFY

JACOBS AECOM McMILLEN JACOBS ASSOCIATES

ISSUE	DATE	AMENDMENT	BY	APPD.
0	24/02/24	ISSUED FOR APPROVAL		

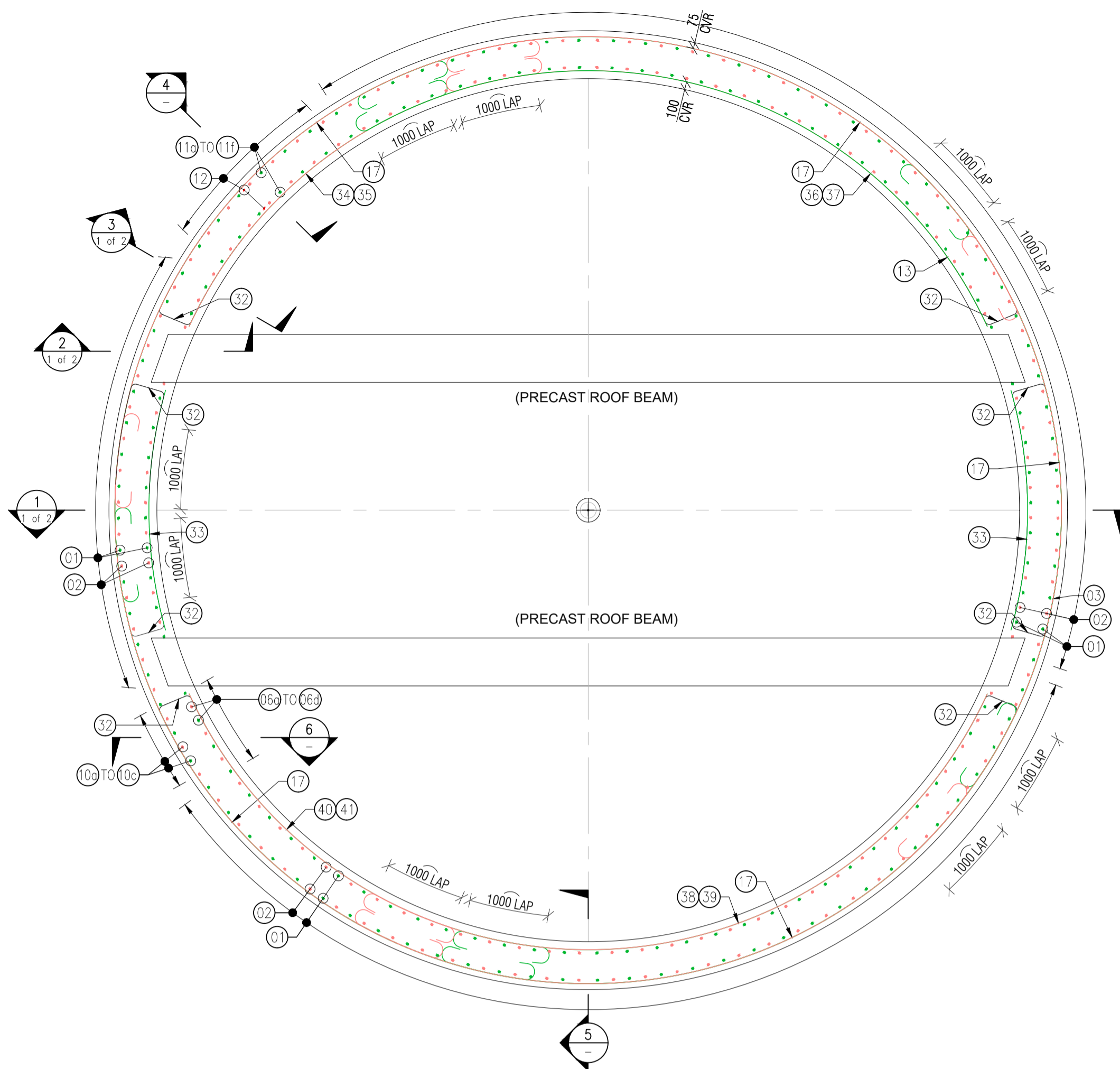
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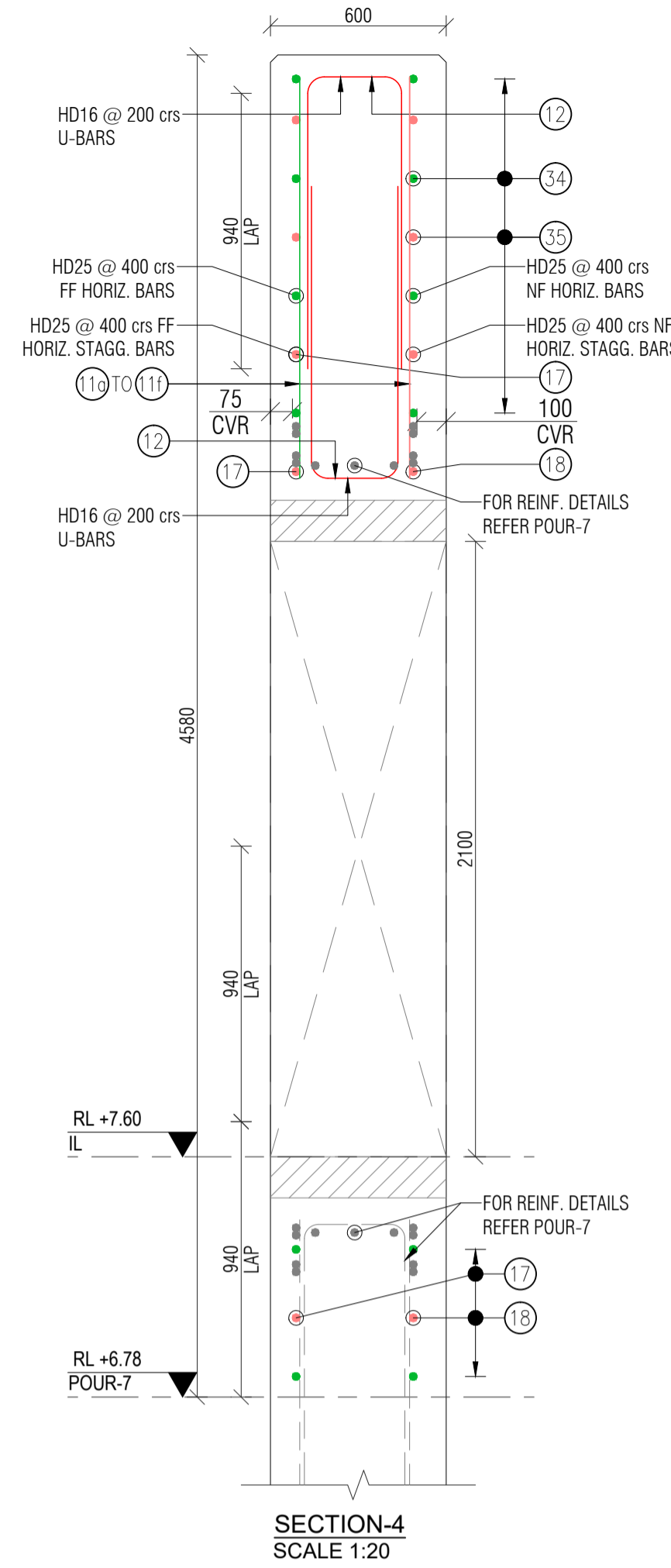
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WORK SHAFT POUR-8 REINFORCEMENT LAYOUT

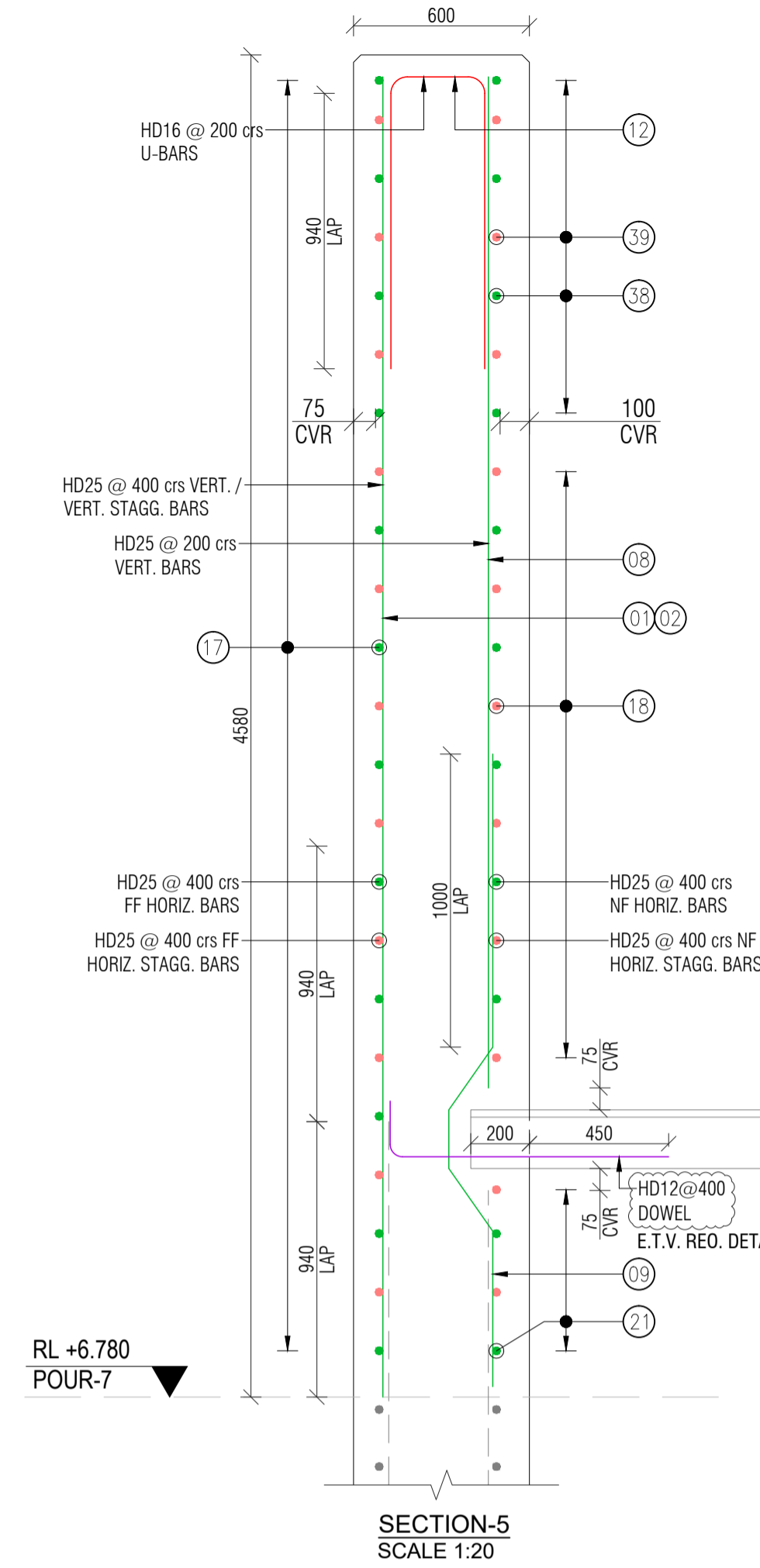
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	24/02/2024	6661	
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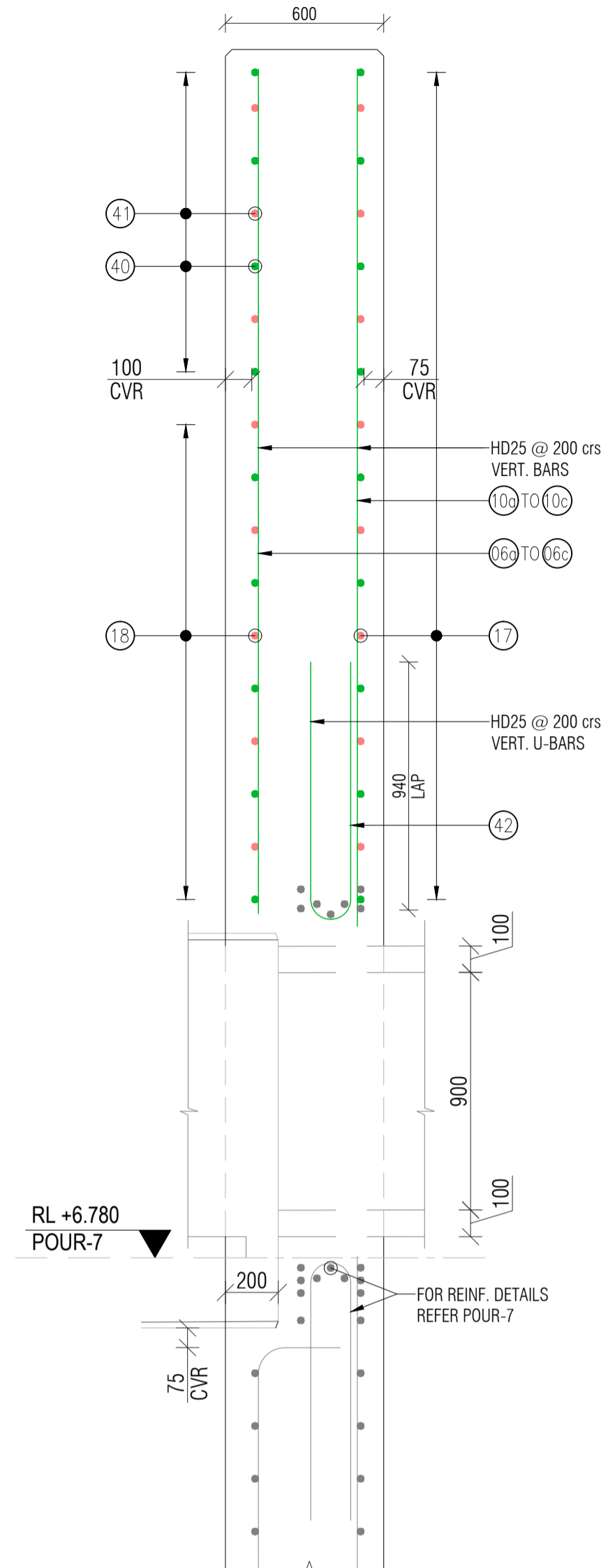
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 PLAN AT LEVEL +10.500 OF MAIN TUNNEL
 SCALE 1:50



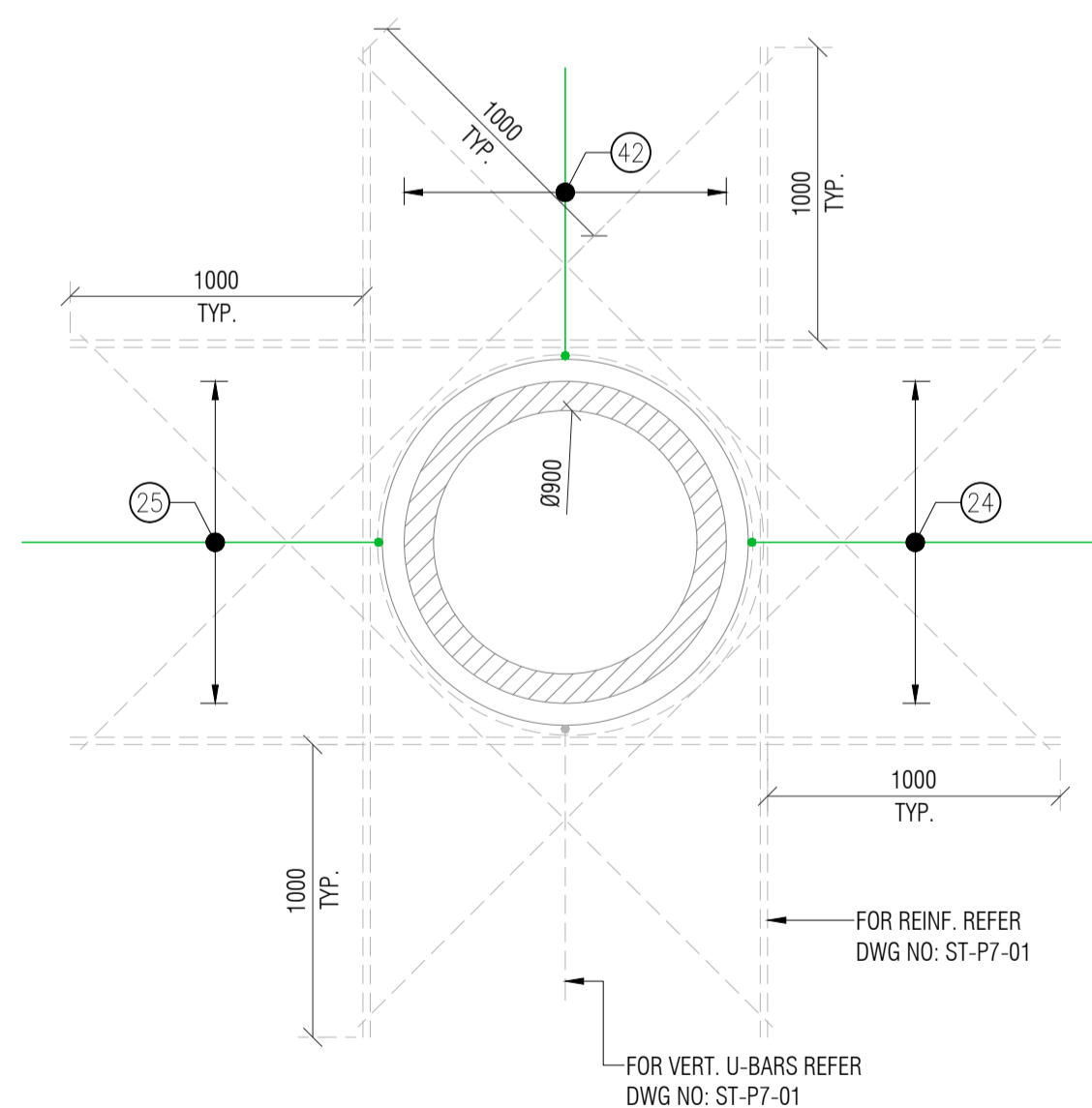
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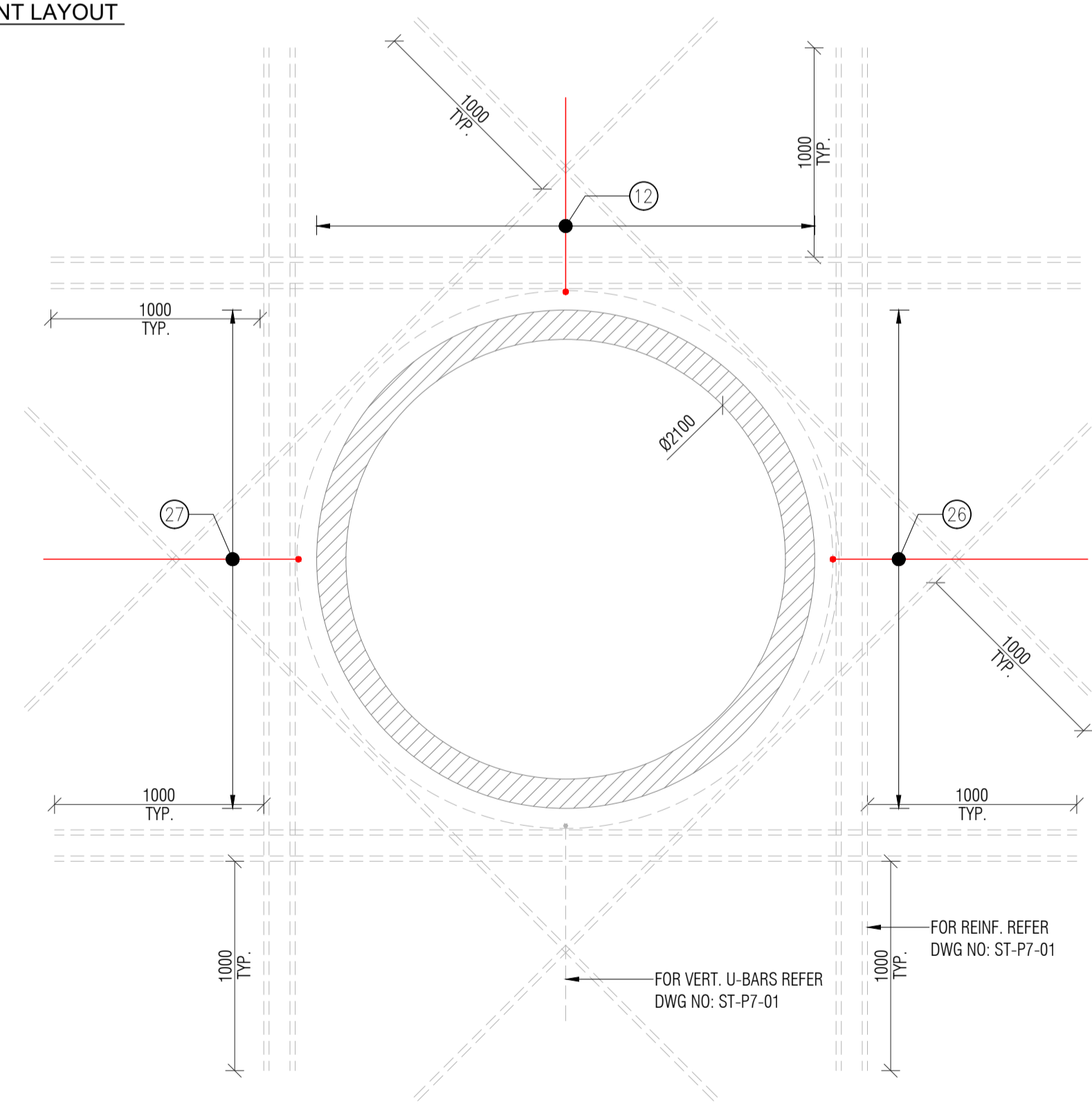
SECTION-5
 SCALE 1:20



SECTION-6
 SCALE 1:20



SECTION-7
 SCALE 1:25



SECTION-8
 SCALE 1:25

E.T.V. - ENGINEER TO VERIFY



ISSUE	DATE	AMENDMENT	BY	APPD.
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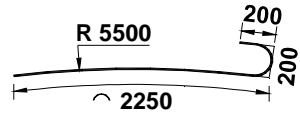
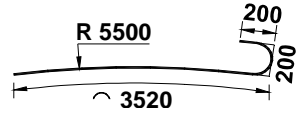
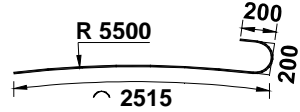
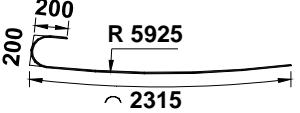
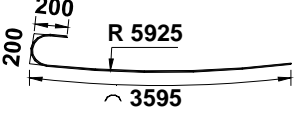
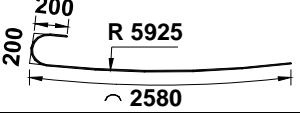
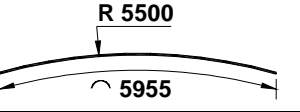
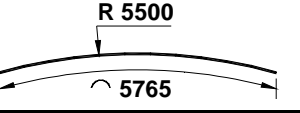
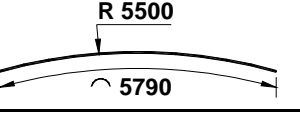
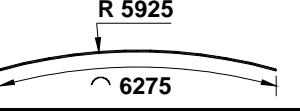
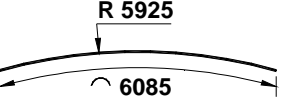


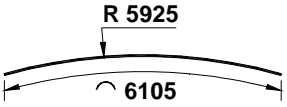
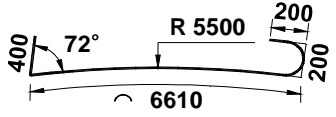
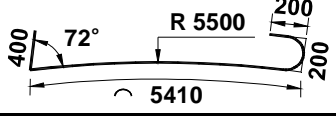
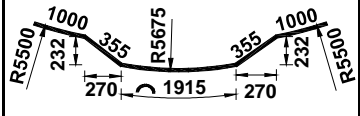
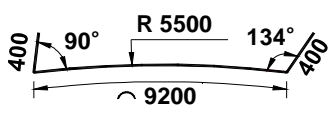
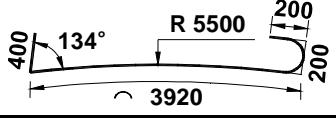
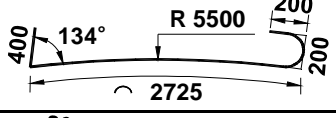
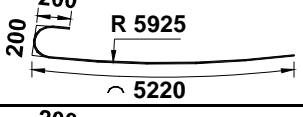
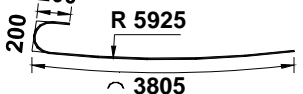
WORK SHAFT POUR-8 REINFORCEMENT LAYOUT

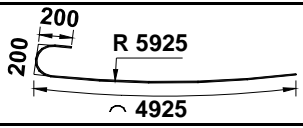
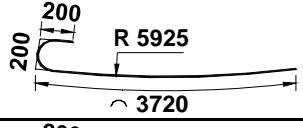
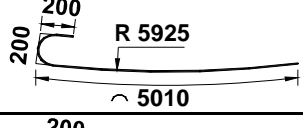
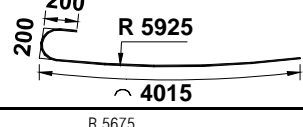
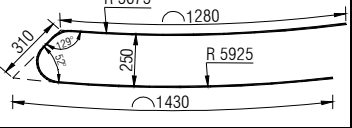
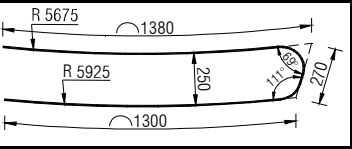
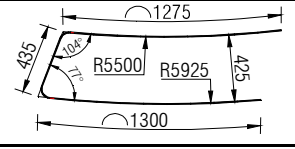
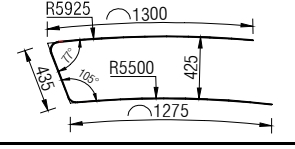
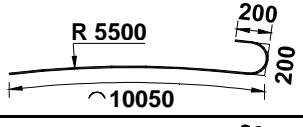
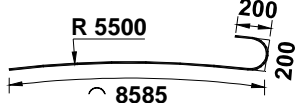
CAD FILE	DATE	CONTRACT No.	ISSUE
	24/02/2024	6661	
DWG. No.	ST-P8-01 (2 of 2)		0

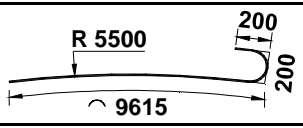
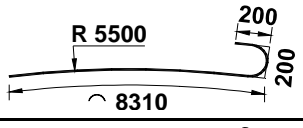
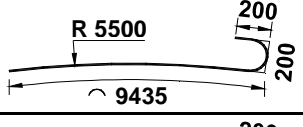
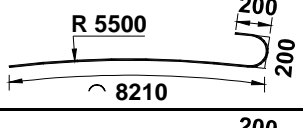
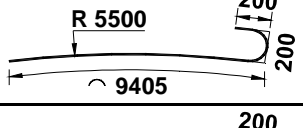
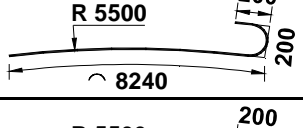
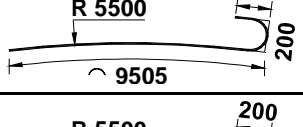
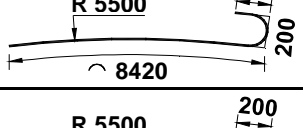
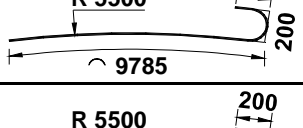
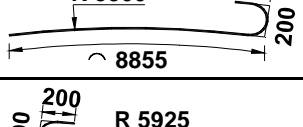
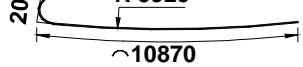
Date: 24 / 02 / 2024					Contract Drawing	REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2011822.002 2011822.003 2011822.004 2011822.008 2011822.015 2011822.016 2011822.017 2011822.018 2011822.020	D F C A B B B B
Drawing Description: WORK SHAFT POUR-8 REINFORCEMENT DETAILS					REV.	
Drawing Number:			ST-P8-01	0		
BBS Nummber:			BBS-ST-P8-01	0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG
01	HD25 @ 400crs VERT. BARS	HD 25	129	4505	<u>4505</u>	2239.65
02	HD25 @ 400crs VERT. STAGG. BARS	HD 25	128	3565	<u>3565</u>	1758.59
03	HD25 @ 400crs VERT. BARS	HD 25	4	3195	<u>3195</u>	49.25
04	HD25 @ 400crs VERT. STAGG. BARS	HD 25	4	2255	<u>2255</u>	34.76
05	HD25 @ 200crs VERTICALS	HD 25	2	1890	<u>1890</u>	14.57
06a	HD25 @ 200crs NF VERTICAL BARS	HD 25	2	3695	<u>3695</u>	28.48
06b	HD25 @ 200crs NF VERTICAL BARS	HD 25	2	3390	<u>3390</u>	26.13
06c	HD25 @ 200crs NF VERTICAL BARS	HD 25	2	3280	<u>3280</u>	25.28
06d	HD25 @ 200crs NF VERTICAL BARS	HD 25	1	3245	<u>3245</u>	12.51
07	HD25 @ 200crs VERTICAL BARS	HD 25	2	2340	<u>2340</u>	18.04
08	HD25 @ 200crs VERTICAL BARS	HD 25	61	3450	<u>3450</u>	811.04

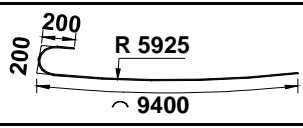
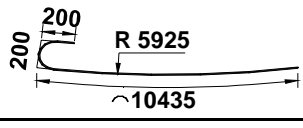
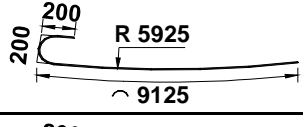
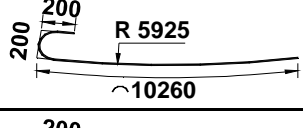
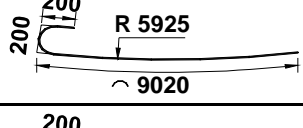
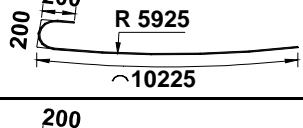
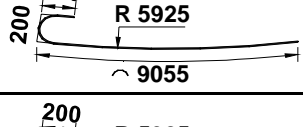
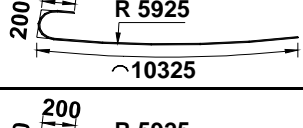
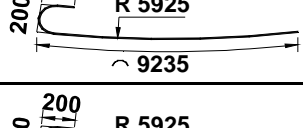
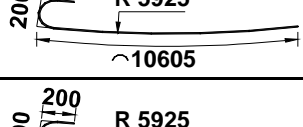
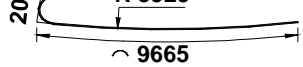
Date: 24 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2011822.002 2011822.003 2011822.004 2011822.008 2011822.015 2011822.016 2011822.017 2011822.018 2011822.020		D F C A B B B B
Drawing Description: WORK SHAFT POUR-8 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P8-01		0		
BBS Nummber:			BBS-ST-P8-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
09	HD25 @ 200crs VERTICAL CRANKED BARS	HD 25	63	2250		546.28	
10a	HD25 @ 200crs FF VERTICAL BARS	HD 25	2	3495		26.94	
10b	HD25 @ 200crs FF VERTICAL BARS	HD 25	2	3325		25.63	
10c	HD25 @ 200crs FF VERTICAL BARS	HD 25	2	3255		25.09	
11a	HD25 @ 200crs VERTICALS	HD 25	4	2010		30.99	
11b	HD25 @ 200crs VERTICALS	HD 25	4	1745		26.90	
11c	HD25 @ 200crs VERTICALS	HD 25	4	1580		24.36	
11d	HD25 @ 200crs VERTICALS	HD 25	4	1475		22.74	
11e	HD25 @ 200crs VERTICALS	HD 25	4	1405		21.66	
11f	HD25 @ 200crs VERTICALS	HD 25	4	1375		21.20	
12	HD16 @ 200crs VERTICAL U-BARS	HD 16	196	2311		715.01	

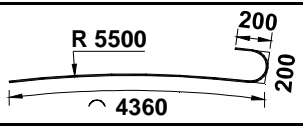
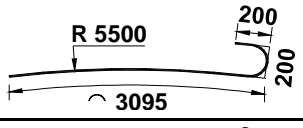
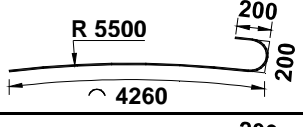
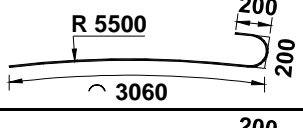
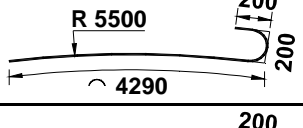
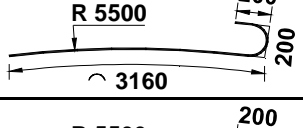
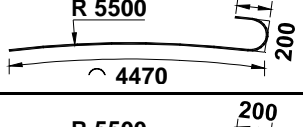
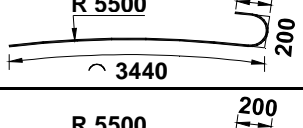
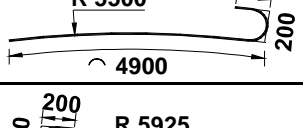
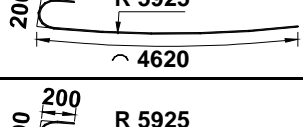
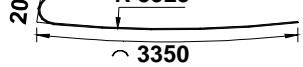
Date: 24 / 02 / 2024					Contract Drawing		REV.
Project :					2011822.002 2011822.003 2011822.004 2011822.008 2011822.015 2011822.016 2011822.017 2011822.018 2011822.020		D F C A B B B B
Drawing Description: WORK SHAFT POUR-8 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P8-01		0		
BBS Nummber:			BBS-ST-P8-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
13a	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	2550		9.83	
13b	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	3820		14.72	
13c	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	2815		10.85	
14a	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	2615		10.08	
14b	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	3895		15.01	
14c	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	2880		11.10	
15a	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	5955		22.95	
15b	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	5765		22.22	
15c	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	5790		22.31	
16a	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	6275		24.18	
16b	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	6085		23.45	

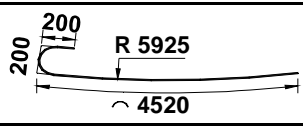
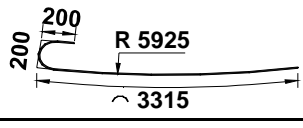
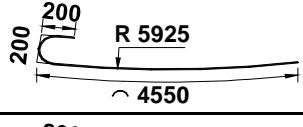
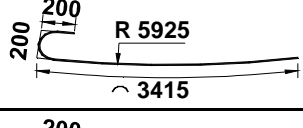
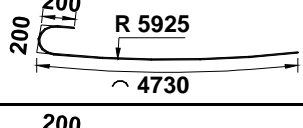
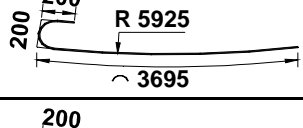
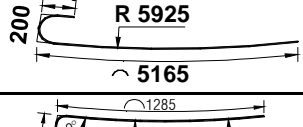
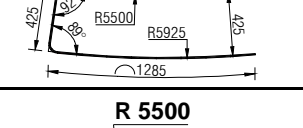
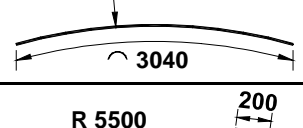
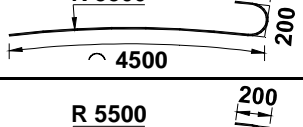
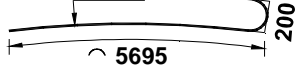
Date: 24 / 02 / 2024					Contract Drawing		REV.
Project :					2011822.002 2011822.003 2011822.004 2011822.008 2011822.015 2011822.016 2011822.017 2011822.018 2011822.020		D F C A B B B B
Drawing Description: WORK SHAFT POUR-8 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P8-01		0		
BBS Nummber:			BBS-ST-P8-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
16c	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	6105		23.53	
17	HD25 @ 400crs FF HORIZ. & FF HORIZ. STAGG. BARS	HD 25	97	9255	REFER SK-01	3459.74	
18	HD25 @ 400crs NF HORIZ. & NF HORIZ. STAGG. BARS	HD 25	52	8710	REFER SK-02	1745.49	
19a	HD25 @ 400crs NF HORIZ. BARS	HD 25	3	7260		83.94	
19b	HD25 @ 400crs NF HORIZ. STAGG. BARS	HD 25	2	6060		46.71	
20	HD25 @ 200crs NF HORIZ. BARS	HD 25	5	4625		89.12	
21	HD25 @ 200crs NF HORIZ. BARS	HD 25	4	9900		152.61	
22a	HD25 @ 400crs NF HORIZ. BARS	HD 25	1	4570		17.61	
22b	HD25 @ 400crs NF HORIZ. STAGG. BARS	HD 25	1	3375		13.01	
23a	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	5520		21.27	
23b	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	4105		15.82	

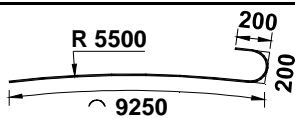
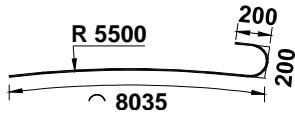
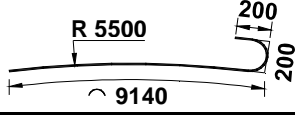
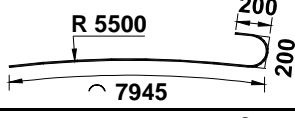
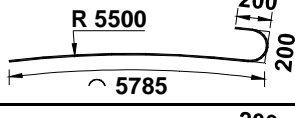
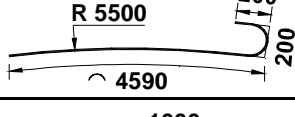
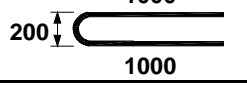
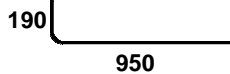
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Project :					2011822.002 2011822.003 2011822.004 2011822.008 2011822.015 2011822.016 2011822.017 2011822.018 2011822.020		D F C A B B B B
Drawing Description: WORK SHAFT POUR-8 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P8-01		0		
BBS Nummber:			BBS-ST-P8-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
23c	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	5225		20.14	
23d	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	4020		15.49	
23e	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	5310		20.46	
23f	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	4315		16.63	
24	HD25 @ 200crs HORIZ. U-BARS	HD 25	6	2920		67.52	
25	HD25 @ 200crs HORIZ. U-BARS	HD 25	6	2850		65.90	
26	HD16 @ 200crs HORIZ. U-BARS	HD 16	12	2910		55.12	
27	HD16 @ 200crs HORIZ. U-BARS	HD 16	12	2910		55.12	
28a	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	10350		39.89	
28b	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	8885		34.24	

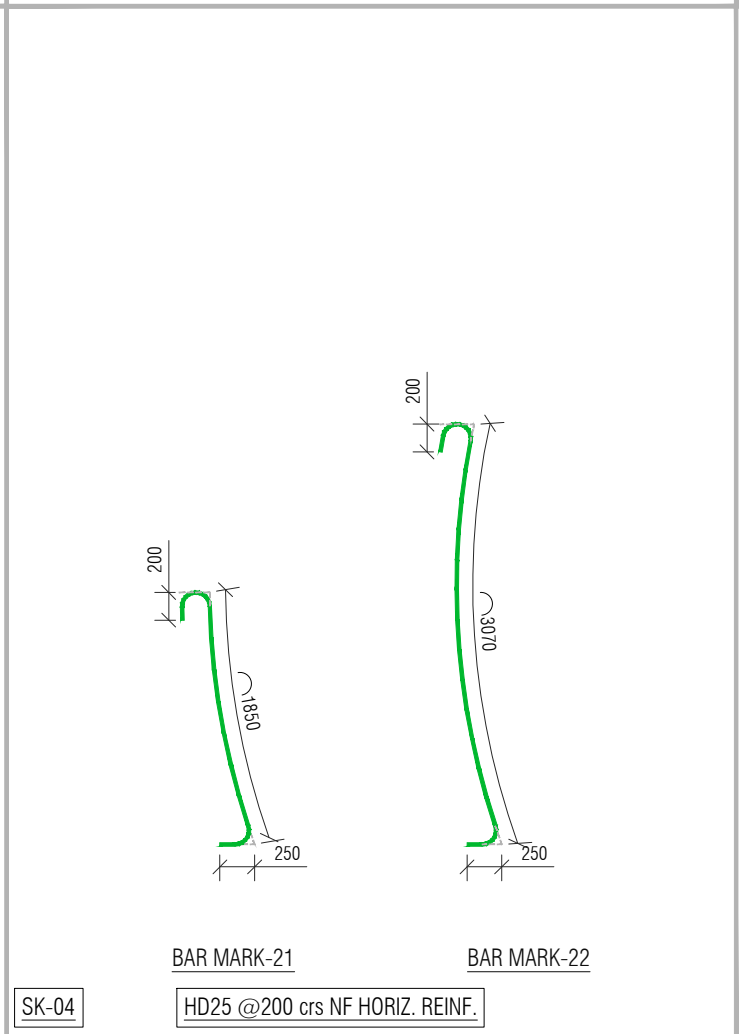
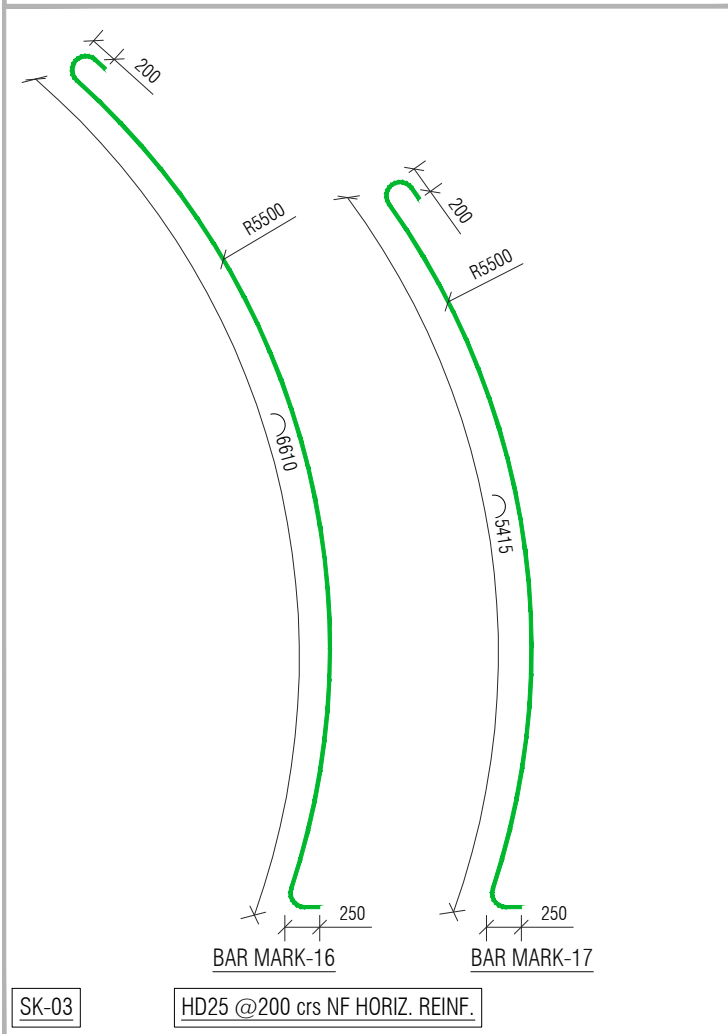
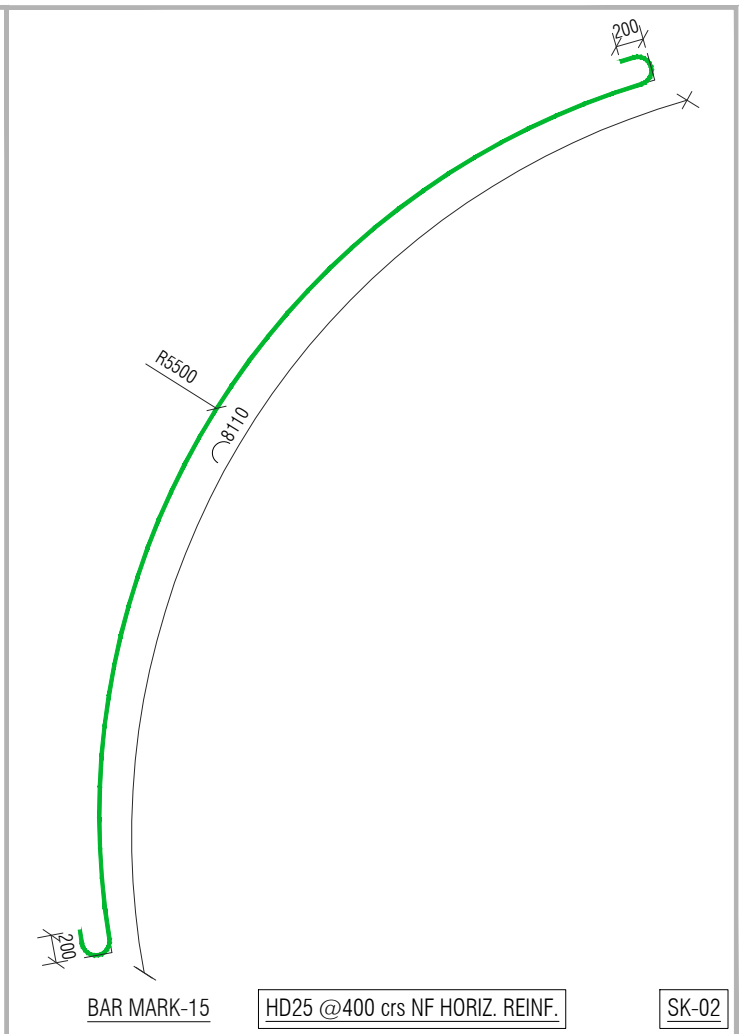
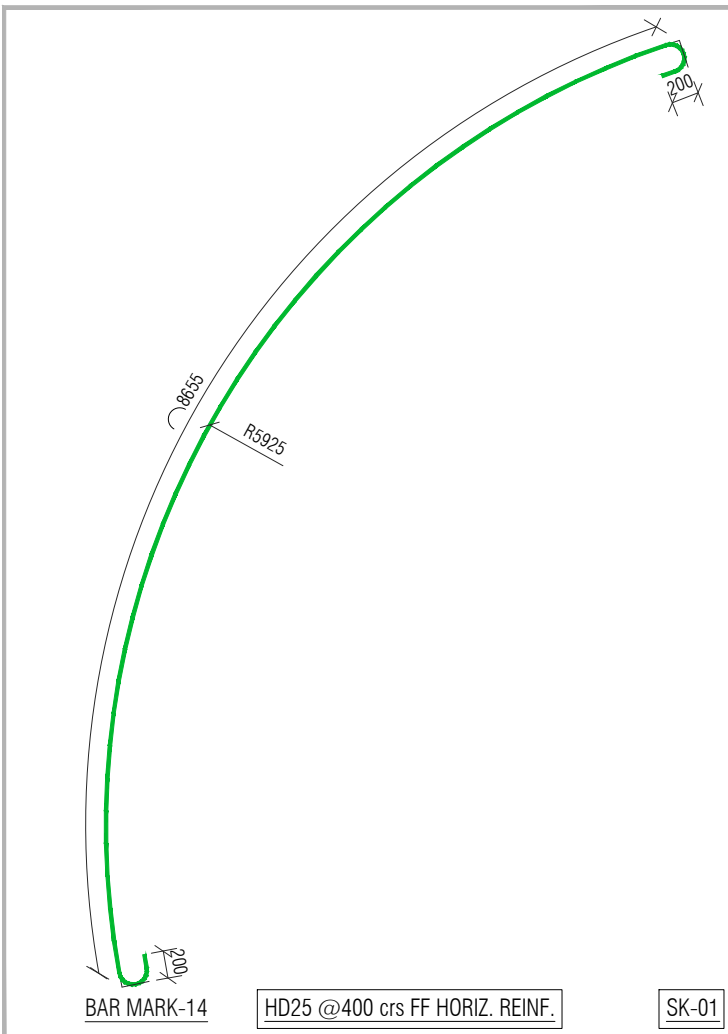
Date: 24 / 02 / 2024					Contract Drawing		REV.
Project :					2011822.002 2011822.003 2011822.004 2011822.008 2011822.015 2011822.016 2011822.017 2011822.018 2011822.020		D F C A B B B B
Drawing Description: WORK SHAFT POUR-8 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P8-01		0		
BBS Nummber:			BBS-ST-P8-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
28c	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	9915		38.21	
28d	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	8610		33.18	
28e	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	9735		37.52	
28f	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	8510		32.80	
28g	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	9705		37.40	
28h	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	8540		32.91	
28i	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	9805		37.79	
28j	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	8720		33.61	
28k	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	10085		38.87	
28l	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	9155		35.28	
29a	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	11170		43.05	

Date: 24 / 02 / 2024					Contract Drawing		REV.
Project :					2011822.002 2011822.003 2011822.004 2011822.008 2011822.015 2011822.016 2011822.017 2011822.018 2011822.020		D F C A B B B B
Drawing Description: WORK SHAFT POUR-8 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P8-01		0		
BBS Nummber:			BBS-ST-P8-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
29b	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	9700		37.38	
29c	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	10735		41.37	
29d	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	9425		36.32	
29e	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	10560		40.70	
29f	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	9320		35.92	
29g	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	10525		40.56	
29h	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	9355		36.05	
29i	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	10625		40.95	
29j	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	9535		36.75	
29k	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	10905		42.03	
29l	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	9965		38.40	

Date: 24 / 02 / 2024					Contract Drawing		REV.
Project :					2011822.002 2011822.003 2011822.004 2011822.008 2011822.015 2011822.016 2011822.017 2011822.018 2011822.020		D F C A B B B B
Drawing Description: WORK SHAFT POUR-8 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P8-01		0		
BBS Nummber:			BBS-ST-P8-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
30a	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	4660		17.96	
30b	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	3395		13.08	
30c	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	4560		17.57	
30d	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	3360		12.95	
30e	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	4590		17.69	
30f	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	3460		13.33	
30g	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	4770		18.38	
30h	HD25 @ 200crs NF HORIZ. STAGG. BARS	HD 25	1	3740		14.41	
30i	HD25 @ 200crs NF HORIZ. BARS	HD 25	1	5200		20.04	
31a	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	4920		18.96	
31b	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	3650		14.07	

Date: 24 / 02 / 2024					Contract Drawing		REV.
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2011822.002 2011822.003 2011822.004 2011822.008 2011822.015 2011822.016 2011822.017 2011822.018 2011822.020		D F C A B B B B
Drawing Description: WORK SHAFT POUR-8 REINFORCEMENT DETAILS					REV.		
Drawing Number:			ST-P8-01		0		
BBS Nummber:			BBS-ST-P8-01		0		
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG	
31c	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	4820		18.58	
31d	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	3615		13.93	
31e	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	4850		18.69	
31f	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	3715		14.32	
31g	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	5030		19.38	
31h	HD25 @ 200crs FF HORIZ. STAGG. BARS	HD 25	1	3995		15.40	
31i	HD25 @ 200crs FF HORIZ. BARS	HD 25	1	5465		21.06	
32	HD16 @ 200crs U-BARS	HD 16	56	2895		255.91	
33	HD25 @ 200crs NF HORIZ. BARS	HD 25	14	3040		164.02	
34	HD25 @ 400crs NF HORIZ. BARS	HD 25	4	4800		73.99	
35	HD25 @ 400crs NF HORIZ. STAGG. BARS	HD 25	3	5995		69.31	

Date: 24 / 02 / 2024					Contract Drawing		REV.																											
Project : WESTERN SPRINGS - CENTRAL INTERCEPTOR 82 GRAVITY SEWER INCLUDING MANHOLES					2011822.002 2011822.003 2011822.004 2011822.008 2011822.015 2011822.016 2011822.017 2011822.018 2011822.020		D F C A B B B B																											
Drawing Description: WORK SHAFT POUR-8 REINFORCEMENT DETAILS					REV.																													
Drawing Number:			ST-P8-01		0																													
BBS Nummber:			BBS-ST-P8-01		0																													
BAR MARK	NOTES	SIZE	QTY	LENGTH	SHAPE (O/A DIMS)	TOTAL WT. KG																												
36	HD25 @ 400crs NF HORIZ. BARS	HD 25	4	9550		147.22																												
37	HD25 @ 400crs NF HORIZ. STAGG. BARS	HD 25	3	8335		96.37																												
38	HD25 @ 400crs NF HORIZ. BARS	HD 25	4	9440		145.52																												
39	HD25 @ 400crs NF HORIZ. STAGG. BARS	HD 25	3	8245		95.33																												
40	HD25 @ 400crs NF HORIZ. BARS	HD 25	4	6085		93.80																												
41	HD25 @ 400crs NF HORIZ. STAGG. BARS	HD 25	3	4890		56.54																												
42	HD25 @ 200crs VERT. U-BARS	HD 25	6	2100		48.56																												
43	HD12 @ 400crs DOWELS	HD 12	22	1116		21.80																												
Total Weight						15146.37																												
NOTE: (1) All dimension lengths mentioned in the Shape are taken as out-to-out dimensions.																																		
<table border="1"> <thead> <tr> <th colspan="3">Summary Of Bars</th> </tr> <tr> <th>Size</th> <th>Weight</th> <th></th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.00</td> <td></td> </tr> <tr> <td>12</td> <td>21.80</td> <td></td> </tr> <tr> <td>16</td> <td>1081.17</td> <td></td> </tr> <tr> <td>20</td> <td>0.00</td> <td></td> </tr> <tr> <td>25</td> <td>14043.41</td> <td></td> </tr> <tr> <td>32</td> <td>0.00</td> <td></td> </tr> <tr> <td>Total Weight</td> <td>15146.37</td> <td></td> </tr> </tbody> </table>								Summary Of Bars			Size	Weight		10	0.00		12	21.80		16	1081.17		20	0.00		25	14043.41		32	0.00		Total Weight	15146.37	
Summary Of Bars																																		
Size	Weight																																	
10	0.00																																	
12	21.80																																	
16	1081.17																																	
20	0.00																																	
25	14043.41																																	
32	0.00																																	
Total Weight	15146.37																																	

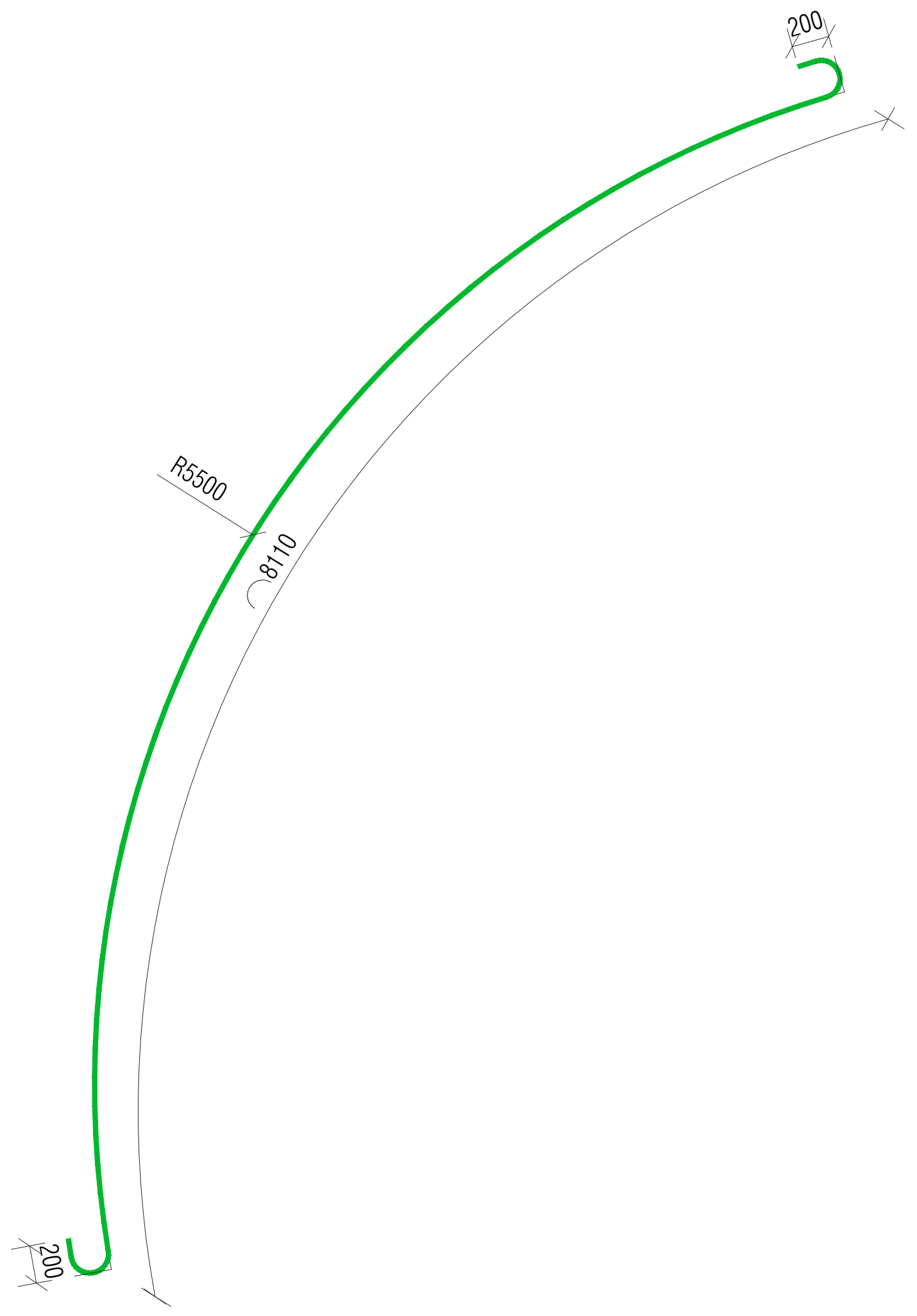




BAR MARK-17

HD25 @400 crs FF HORIZ. REINF.

SK-01



BAR MARK-18

HD25 @400 crs NF HORIZ. REINF.

SK-02