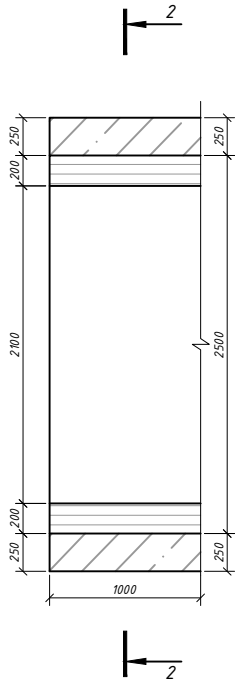
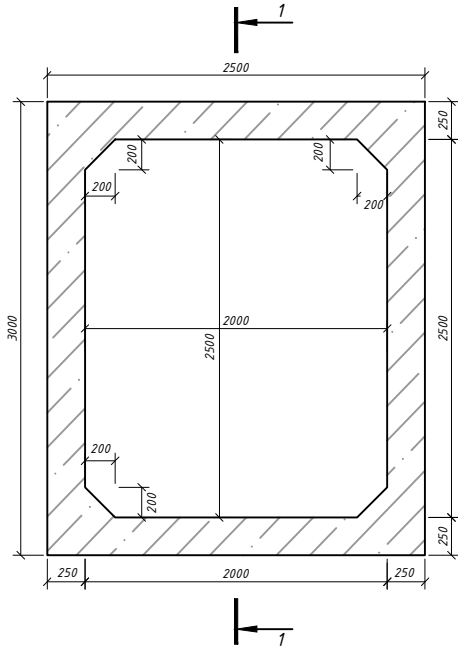


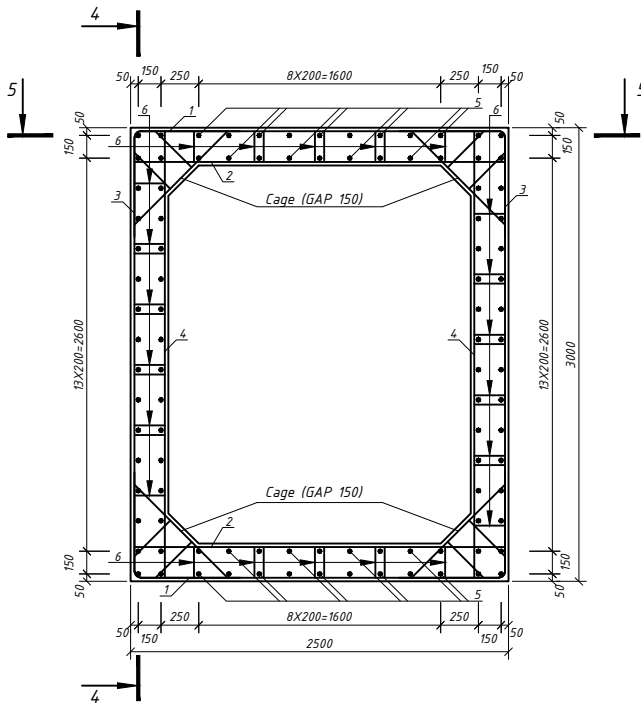
1 - 1
S 1:25



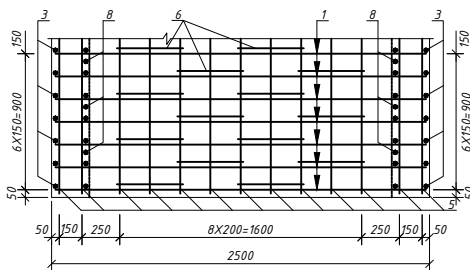
2 - 2
S 1:25



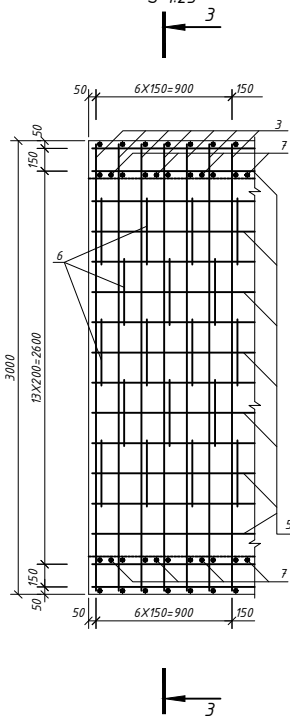
3 - 3
S 1:25



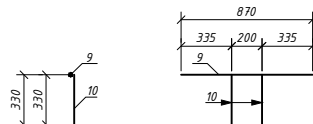
5 - 5
S 1:25



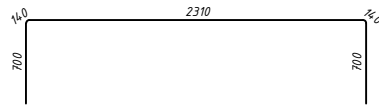
4 - 4
S 1:25



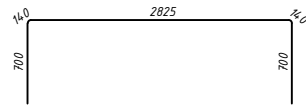
Cage - 1



Position N1



Position N3



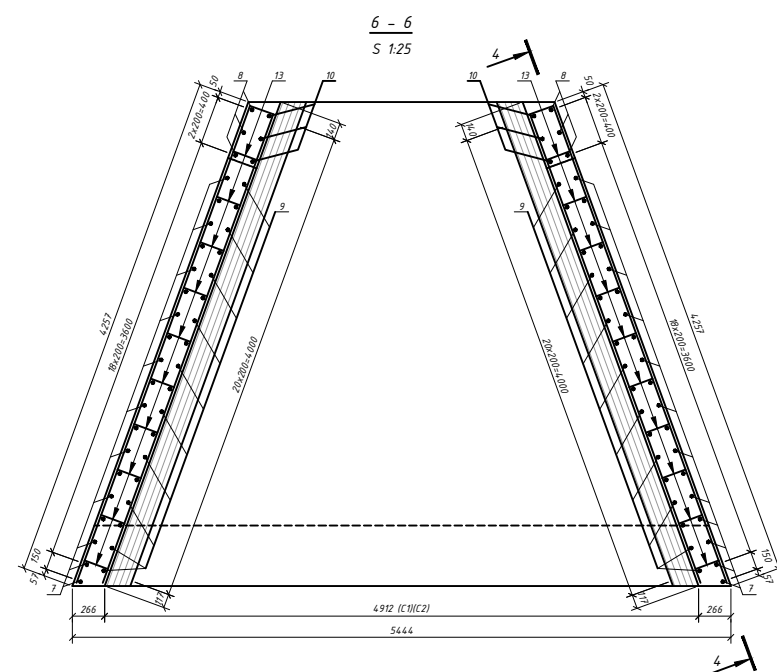
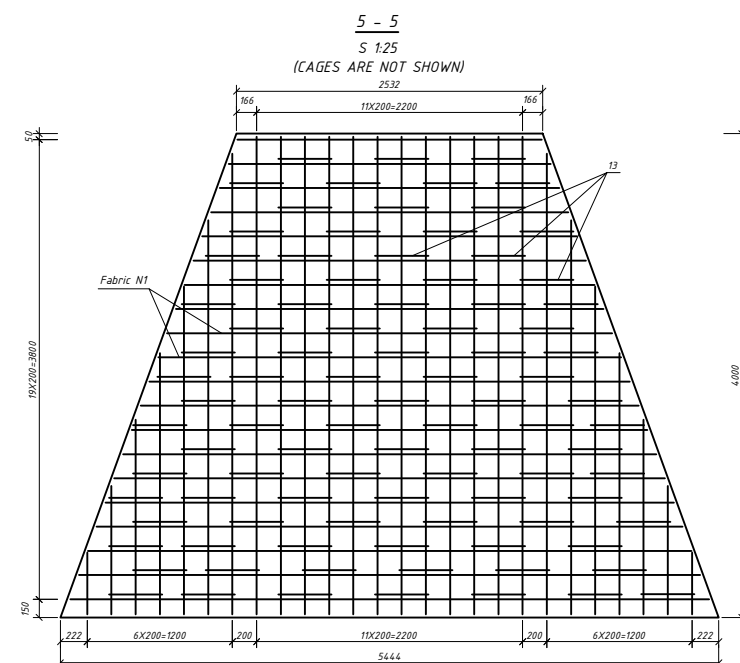
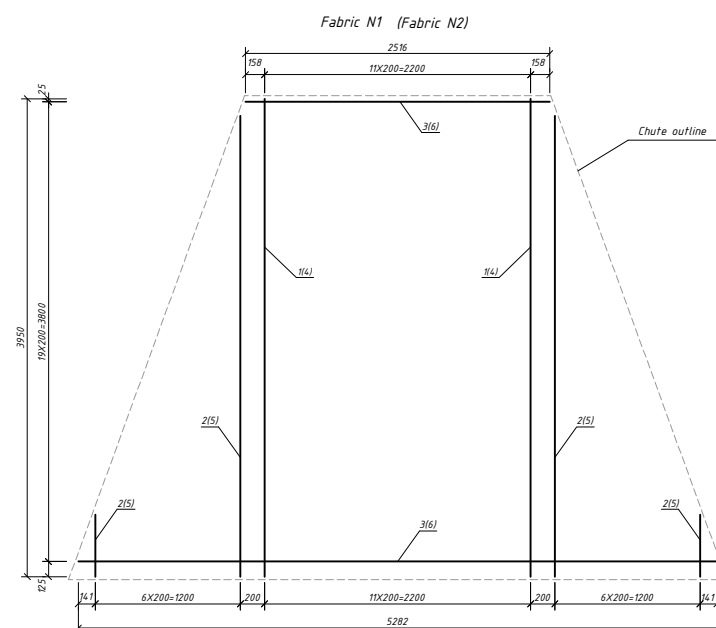
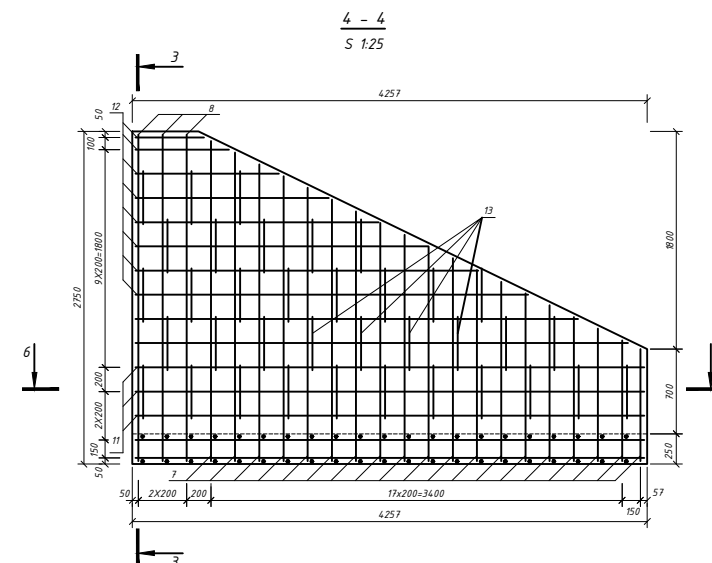
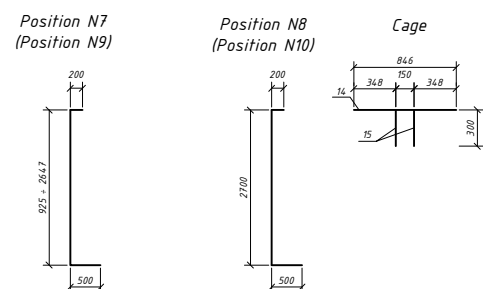
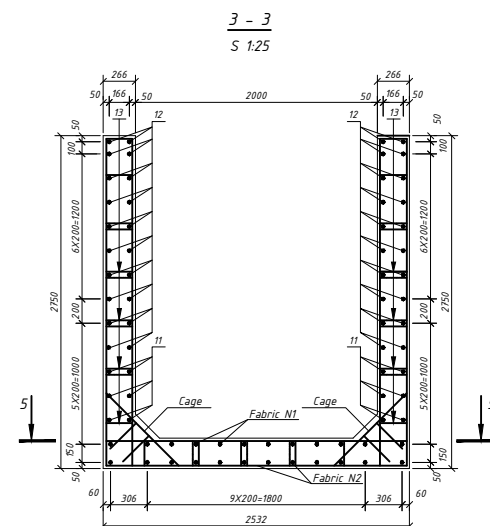
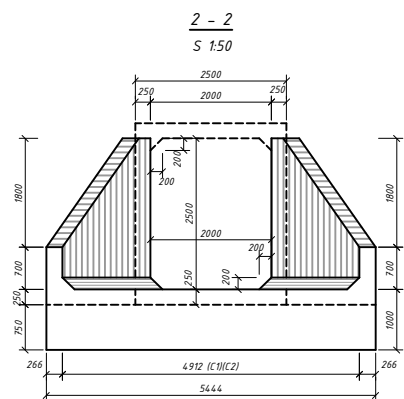
	Steel specification for 1 meter						Steel specification for 1 section (12 m)			Steel specification for 3 section (36 m)		
	Position	Sketch, mm	Diameter or section, mm	Length, mm	Quantity, unit	Total length, m	Length, mm	Quantity, unit	Total length, m	Length, mm	Quantity, unit	Total length, m
Separate bars	1	Is given on drawing	14A-III	3 990	14	55,860	3 990	168	670,320	3 990	504	2 010,960
	2	2450	18A-III	2 450	14	34,300	2 450	168	411,600	2 450	504	1 234,800
	3	Is given on drawing	14A-III	4 505	14	63,070	4 505	168	756,840	4 505	504	2 270,520
	4	2950	14A-III	2 950	14	41,300	2 950	168	495,600	2 950	504	1 486,800
	5	1000	14A-III	1 000	100	100,000	11 950	100	1 195,000	11 950	300	3 585,000
	6	272 172 522	10A-III	1 388	64	88,832	1 388	768	1 065,984	1 388	2 304	3 197,952
	7	2450	18A-III	2 450	8	19,600	2 450	96	235,200	2 450	288	705,600
	8	2950	14A-III	2 950	6	17,700	2 950	72	212,400	2 950	216	637,200
C (28 un)	9	870	12A-III	870	28	24,360	870	336	292,320	870	1 008	876,960
	10	330	12A-III	330	56	18,480	330	672	221,760	330	2 016	665,280

Remark:
1. Armature adopted in accordance with GOST 5781-82
"Hot-rolled steel for reinforcement of ferroconcrete
structures. Specifications"

Selection armature for 1 m			Selection armature for 1 section (12 m)		Selection armature for 3 section (36 m)	
Ø mm and steel grade	The total length, m	Weight, kg	The total length, m	Weight, kg	The total length, m	Weight, kg
10 A-III	88,832	54,809	1 065,984	657,712	3 197,952	1 973,136
12 A-III	42,840	38,042	514,080	456,503	1 542,240	1 369,509
14 A-III	277,930	336,295	3 330,160	4 028,494	9 990,480	12 088,481
18 A-III	53,900	107,800	646,800	1 293,600	1 940,400	3 880,800
Total:						
A-III		536,947		6 437,309		19 311,926
Binding wire 2%		10,74	-	128,75	-	386,24

E-60-00-WD-01-H.1-HP.01-P1				Construction of the road Samtredia - Grigoleti km 0 +000 - km 11 +500			
Engineer	R.Harlander			Highway. Section PK 40+00 - PK 50+00			
Proj.Manag.	D.Valuikin	11.16					
Checked by	H.Gorobinskaya	11.16					
Exec. by	M.Lunyakin	11.16					
Culvert. Opening 2,00x2,50m PK45+62				"Road Building "Altcom" LLC			

Формат А4х6



	Steel specification for one head						Steel specification for two heads		
	Position	Sketch, mm	Diameter or section, mm	Length, mm	Quantity, unit	Total length, m	Length, mm	Quantity, unit	Total length, m
Fabric #1 (1 unit)	1		12A-III	3 950	12	47,400	3 950	24	94,800
	2		12A-III	L _{2 bar} =2 161	14	30,254	L _{2 bar} =2 161	28	60,508
	3		14A-III	L _{2 bar} =3 899	20	77,980	L _{2 bar} =3 899	40	155,960
Fabric #2 (1 unit)	4		12A-III	3 950	12	47,400	3 950	24	94,800
	5		12A-III	L _{2 bar} =2 161	14	30,254	L _{2 bar} =2 161	28	60,508
	6		18A-III	L _{2 bar} =3 899	20	77,980	L _{2 bar} =3 899	40	155,960
Separate bars	7		18A-III	L _{2 bar} =2 486	38	94,458	L _{2 bar} =2 486	76	188,936
	8		18A-III	3 400	6	20,400	3 400	12	40,800
	9		14A-III	L _{2 bar} =2 486	36	89,496	L _{2 bar} =2 486	72	178,992
	10		14A-III	3 400	6	20,400	3 400	12	40,800
	11		12A-III	4 207	12	50,484	4 207	24	100,968
	12		12A-III	L _{2 bar} =2 320	40	92,800	L _{2 bar} =2 320	80	185,600
	13		10A-III	1 516	166	251,656	1 516	332	503,312
C (4,2 un)	14		14A-III	846	42	35,532	846	84	71,064
	15		14A-III	300	84	25,200	300	168	50,400

Selection armature for one head			Selection armature for two heads	
<i>B</i> mm and steel grade	The total length, m	Weight, kg	The total length, m	Weight, kg
10 A-III	251,656	155,272	503,312	310,544
12 A-III	248,592	265,150	597,184	530,299
14 A-III	248,608	300,816	497,216	601,631
16 A-III	192,848	365,696	385,696	771,392
Total:				
A-III		1 106,933	2 172,866	
Binding wire 2X		22,14	44,28	

Remark:
1. Armature adopted in accordance with GOST 5781-82 "Hot-rolled steel for reinforcement of ferroconcrete structures. Specifications"

E-60-00-WD-01-H1-HP-01-P1				Construction of the road Samtredia - Grigoleti km 0 +000 - km 11 +500				
		Engineer	R Harlander					
		Proj.Manag.	O.Valuikin	11/16	Highway Section PK 60+00 - PK 50+00 Culvert: Opening 2,00x2,50m PK65+62	Stage	Sheet	Sheets
		Checked by	G.Gorobinsky	11/16		WD	3	3
		Exec. by	M.Lunyakin	11/16				
				"Road Building "Altcom" LLC				