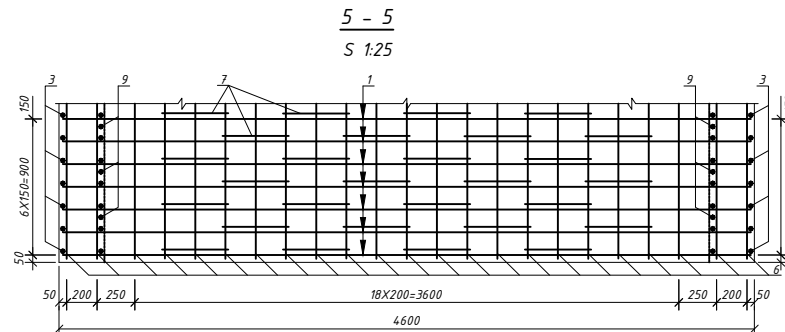
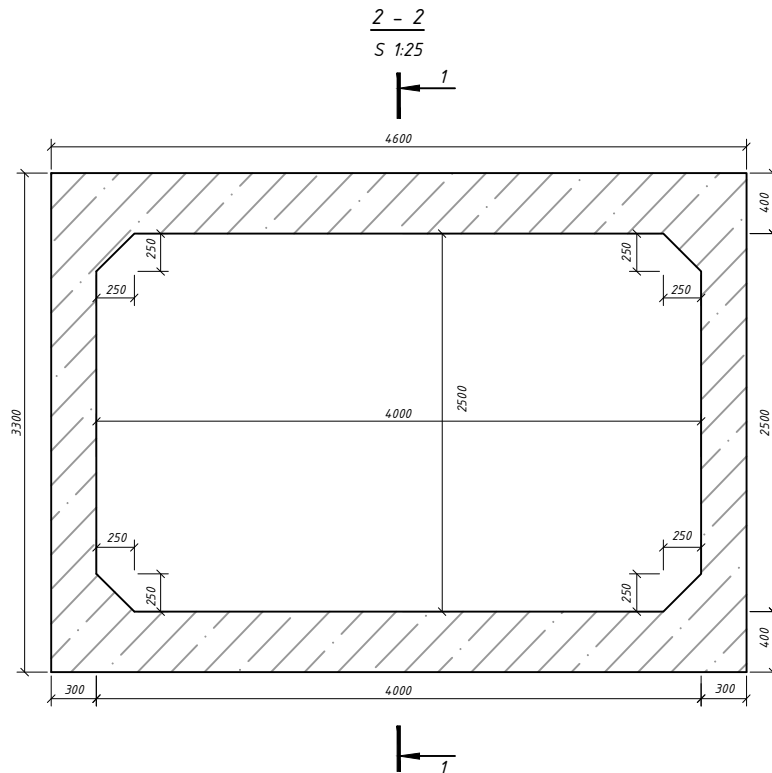
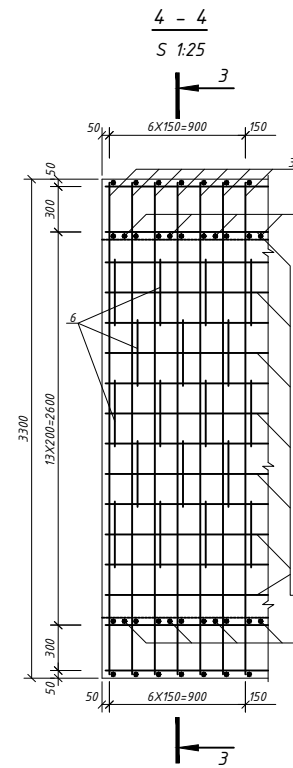
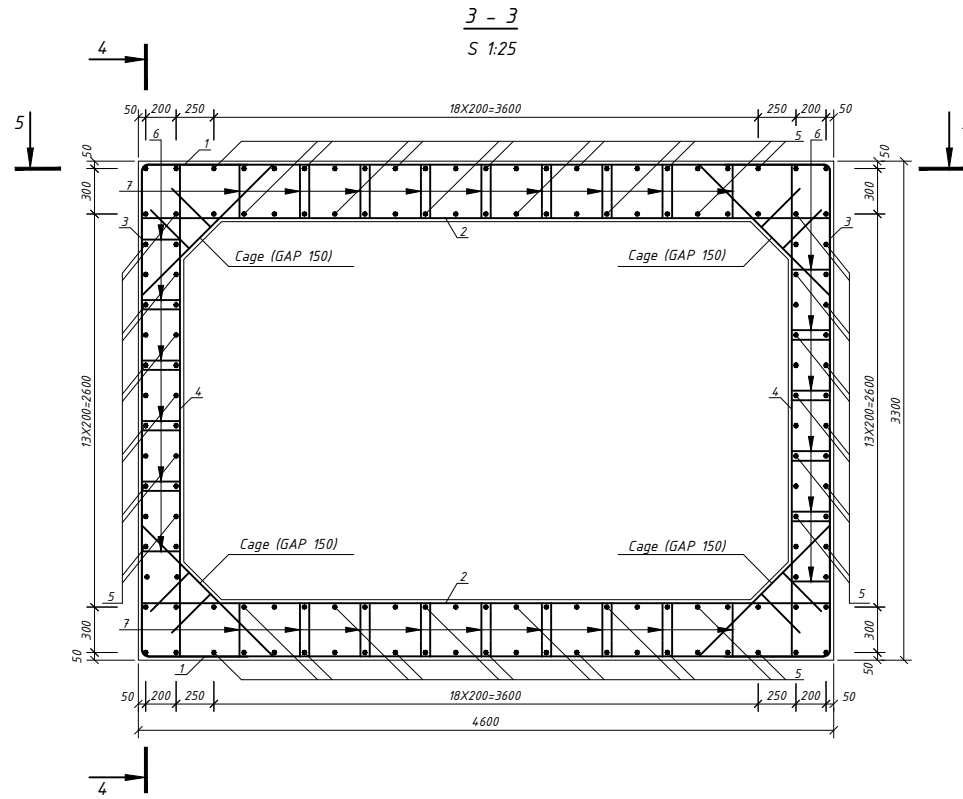
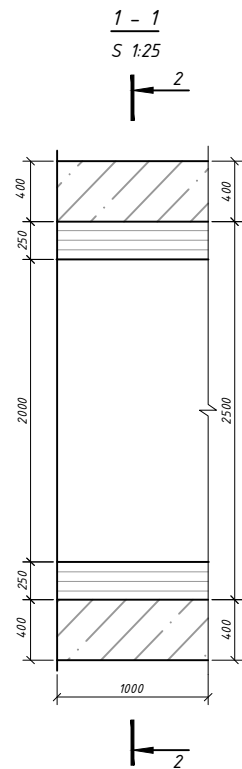


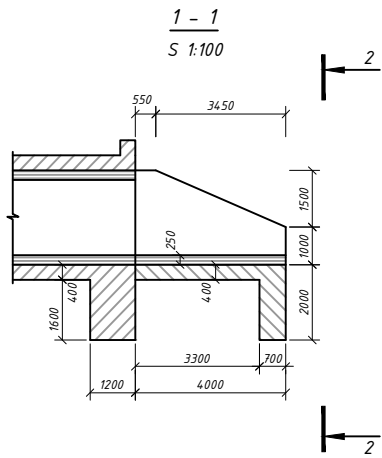
	Steel specification for 1 meter						Steel specification for 1 section (11 m)			Steel specification for 4 section (44 m)		
	Position	Sketch, mm	Diameter or section, mm	Length, mm	Quantity, unit	Total length, m	Length, mm	Quantity, unit	Total length, m	Length, mm	Quantity, unit	Total length, m
Separate bars	1	Is given on drawing	18A-III	7 690	14	107,660	7 690	154	1 184,260	7 690	616	4 737,040
	2	4550	25A-III	4 550	14	63,700	4 550	154	700,700	4 550	616	2 802,800
	3	Is given on drawing	18A-III	4 805	14	67,270	4 805	154	739,970	4 805	616	2 959,880
	4	3250	18A-III	3 250	14	45,500	3 250	154	500,500	3 250	616	2 002,000
	5	1000	16A-III	1 000	140	140,000	10 950	140	1 533,000	10 950	560	6 132,000
	6	326 426 226 526	10A-III	1 504	36	54,144	1 504	396	595,584	1 504	1 584	2 382,336
	7	426 326 526	10A-III	1 704	56	95,424	1 704	616	1 049,664	1 704	2 464	4 198,656
	8	4550	25A-III	4 550	8	36,400	4 550	88	400,400	4 550	352	1 601,600
	9	3250	18A-III	3 250	6	19,500	3 250	66	214,500	3 250	264	858,000
C (28 un)	10	1225	12A-III	1 225	28	34,300	1 225	308	377,300	1 225	1 232	1 509,200
	11	380	12A-III	380	56	21,280	380	616	234,080	380	2 464	936,320

Selection armature for 1 m			Selection armature for 1 section (11 m)		Selection armature for 4 section (44 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	14,9568	92,283	1 645,248	1 015,118	6 580,992	4 060,472
12 A-III	55,580	49,355	611,380	542,905	2 445,520	2 171,622
16 A-III	140,000	221,200	1 533,000	2 422,140	6 132,000	9 688,560
18 A-III	239,930	479,860	2 639,230	5 278,460	10 556,920	21 113,840
25 A-III	100,100	385,385	1 101,100	4 239,235	4 404,400	16 956,940
Total:						
A-III		1 228,083		13 497,858		53 991,434
Binding wire 2%		24,56		269,96		1079,83

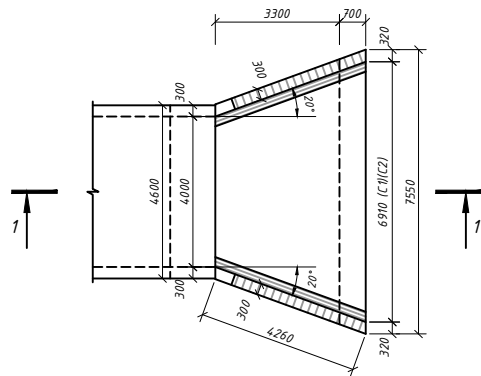
Remark:
1. Armature adopted in accordance with GOST 5781-82
"Hot-rolled steel for reinforcement of ferroconcrete structures. Specifications"

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			Stage	Sheet	Sheets	
Proj.Manag.	D.Valuikin	11.16		WD	2	3	
Checked by	H.Gorobinskaya	11.16		Highway. Section PK 40+00 - PK 50+00			
Exec. by	M.Lunyakin	11.16		Culvert. Opening 4,00x2,50m PK43+39			
"Road Building "Altcom" LLC				"Road Building "Altcom" LLC			

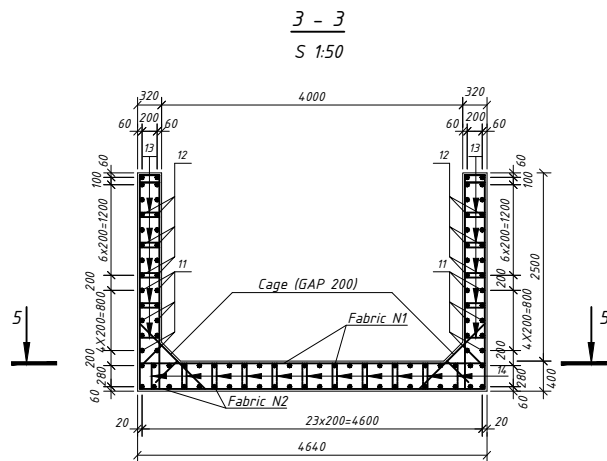
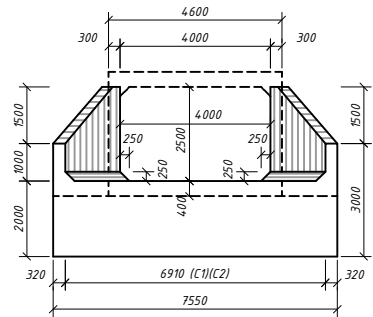
Формат А4х6



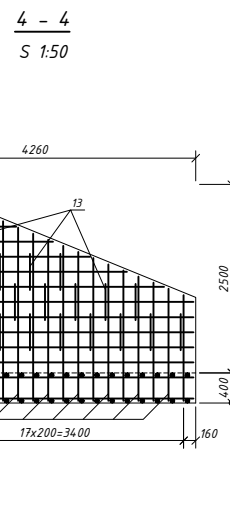
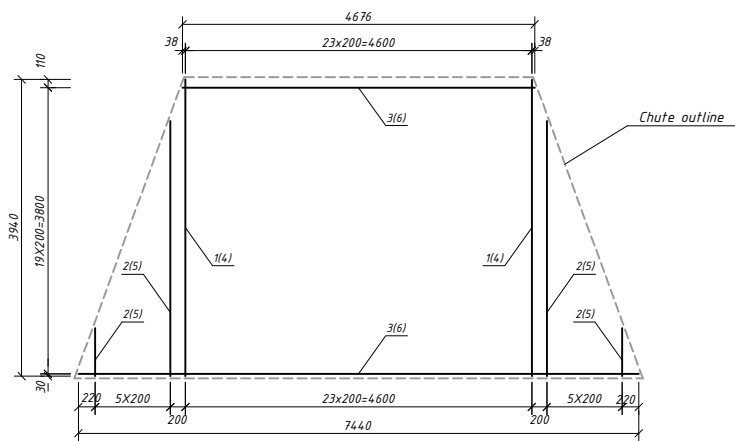
PLAN
S 1:100



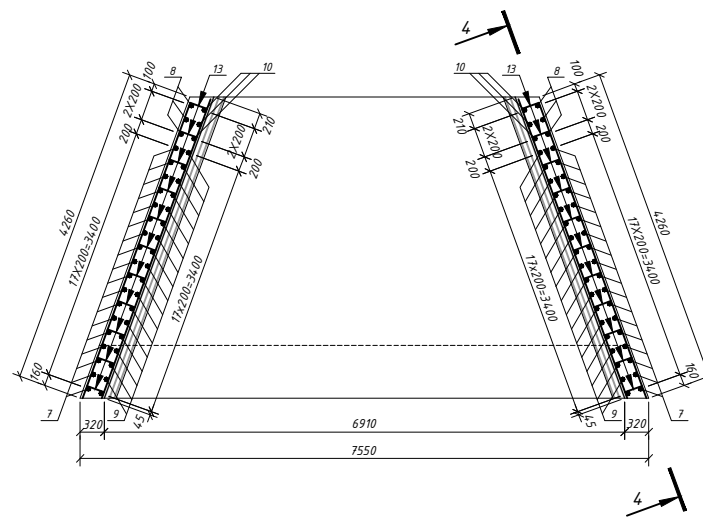
2 - 2
S 1:100



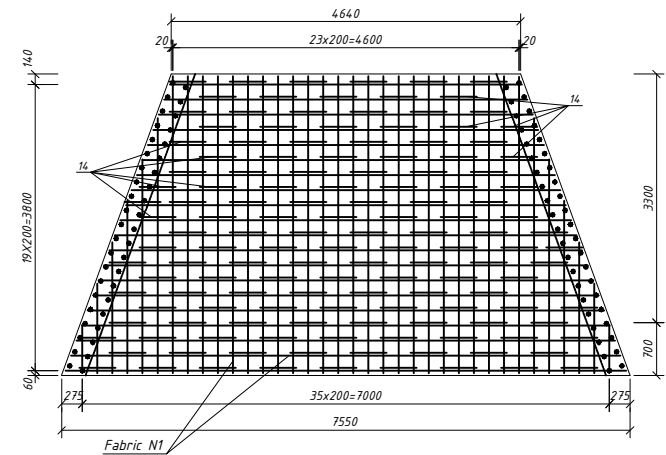
Fabric N1 (Fabric N2)



6 - 6
S 1:50

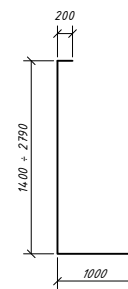


5 - 5
S 1:50
(CAGES ARE NOT SHOWN)

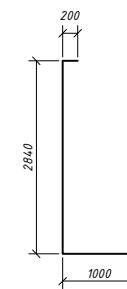


	Steel specification for one head						Steel specification for two heads		
	Position	Sketch, mm	Diameter or section, mm	Length, mm	Quantity, unit	Total length, m	Length, mm	Quantity, unit	Total length, m
Fabric N1 (1 units)	1	3940	12A-III	3 940	24	94,560	3 940	48	189,120
	2	640 + 3386	12A-III	L _{aver} =2 013	12	24,156	L _{aver} =2 013	24	48,312
	3	4676 + 7440	14A-III	L _{aver} =6 058	20	121,160	L _{aver} =6 058	40	242,320
Fabric N2 (1 units)	4	3940	12A-III	3 940	24	94,560	3 940	48	189,120
	5	640 + 3386	12A-III	L _{aver} =2 013	12	24,156	L _{aver} =2 013	24	48,312
	6	4676 + 7440	18A-III	L _{aver} =6 058	20	121,160	L _{aver} =6 058	40	242,320
Separate bars	7	Is given on drawing	18A-III	L _{aver} =3 295	36	118,620	L _{aver} =3 295	72	237,240
	8	Is given on drawing	18A-III	4 040	6	24,240	4 040	12	48,480
	9	Is given on drawing	14A-III	L _{aver} =3 295	36	118,620	L _{aver} =3 295	72	237,240
	10	Is given on drawing	14A-III	4 040	6	24,240	4 040	12	48,480
	11	4200	12A-III	4 200	20	84,000	4 200	40	168,000
	12	620 + 3808	12A-III	2 258	32	72,256	2 258	64	144,512
	13	526	10A-III	1 464	66	96,624	1 464	132	193,248
C (42 un)	14	526	10A-III	1 704	142	241,968	1 704	284	483,936
	15	1225	18A-III	1 225	84	102,900	1 225	168	205,800
	16	400	18A-III	400	42	16,800	400	84	33,600

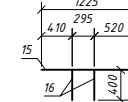
Position N7 (Position N9)



Position N8 (Position N10)



Cage



Selection armature for one head			Selection armature for two heads	
Ø mm and steel grade	The total length, m	Weight, kg	The total length, m	Weight, kg
10 A-III	338,592	208,911	677,184	417,823
12 A-III	393,688	349,595	787,376	699,190
14 A-III	264,020	319,464	528,040	638,928
18 A-III	383,720	767,440	767,440	1 534,880
Total:				
A-III		1 645,410		3 290,821
Binding wire 2%		32,91		65,82

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

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			
Proj.Manag.	O.Valuikin	11.16		
Checked by	M.Gorobinskaya	11.16		
Exec. by	M.Lunyak	11.16		
Highway: Section PK 40+00 - PK 50+00		Stage	Sheet	Sheets
Culvert. Opening 4,00x2,50m PK43+39		WD	3	3
"Road Building "Altcom" LLC		"Road Building "Altcom" LLC		