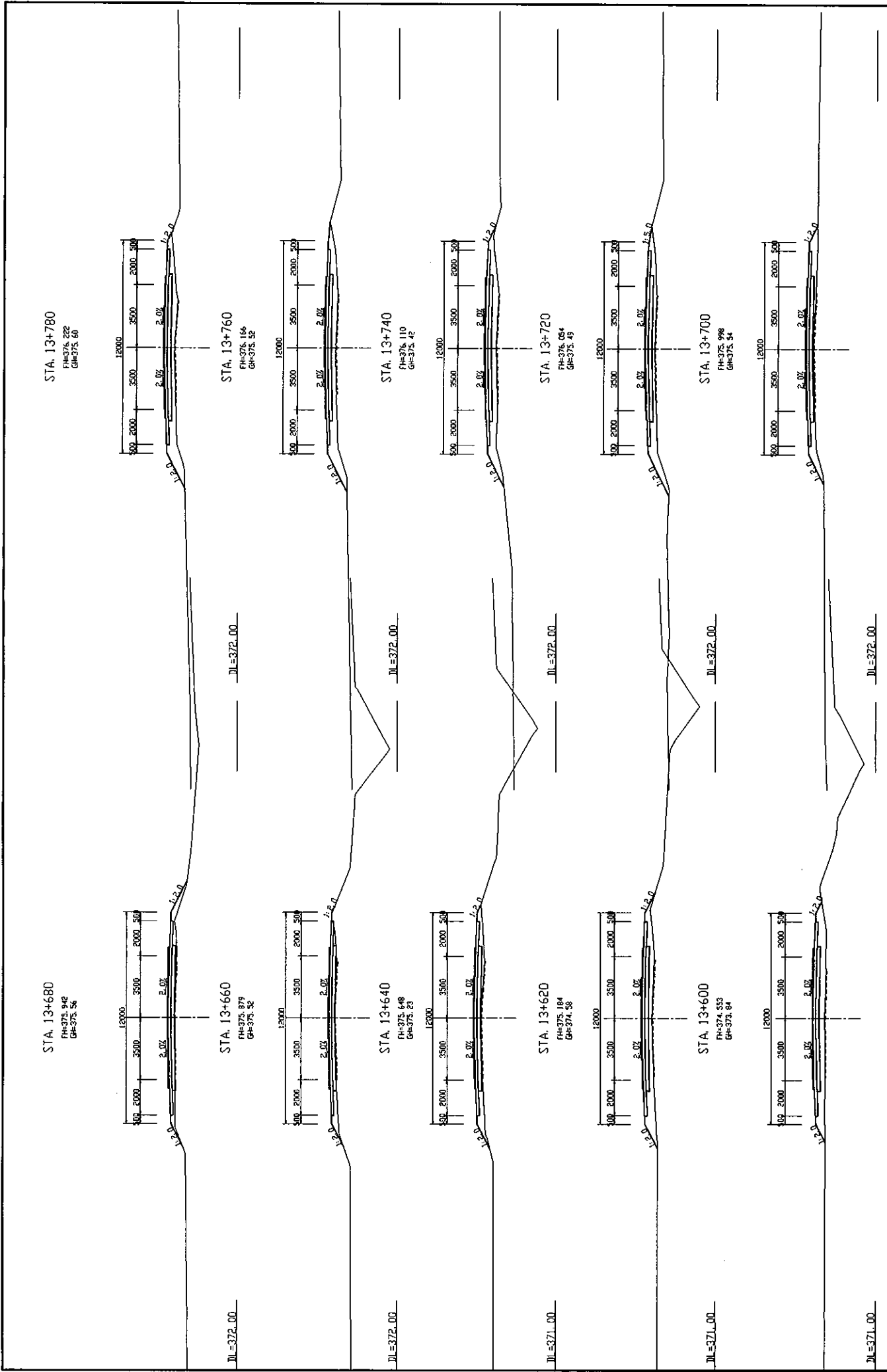
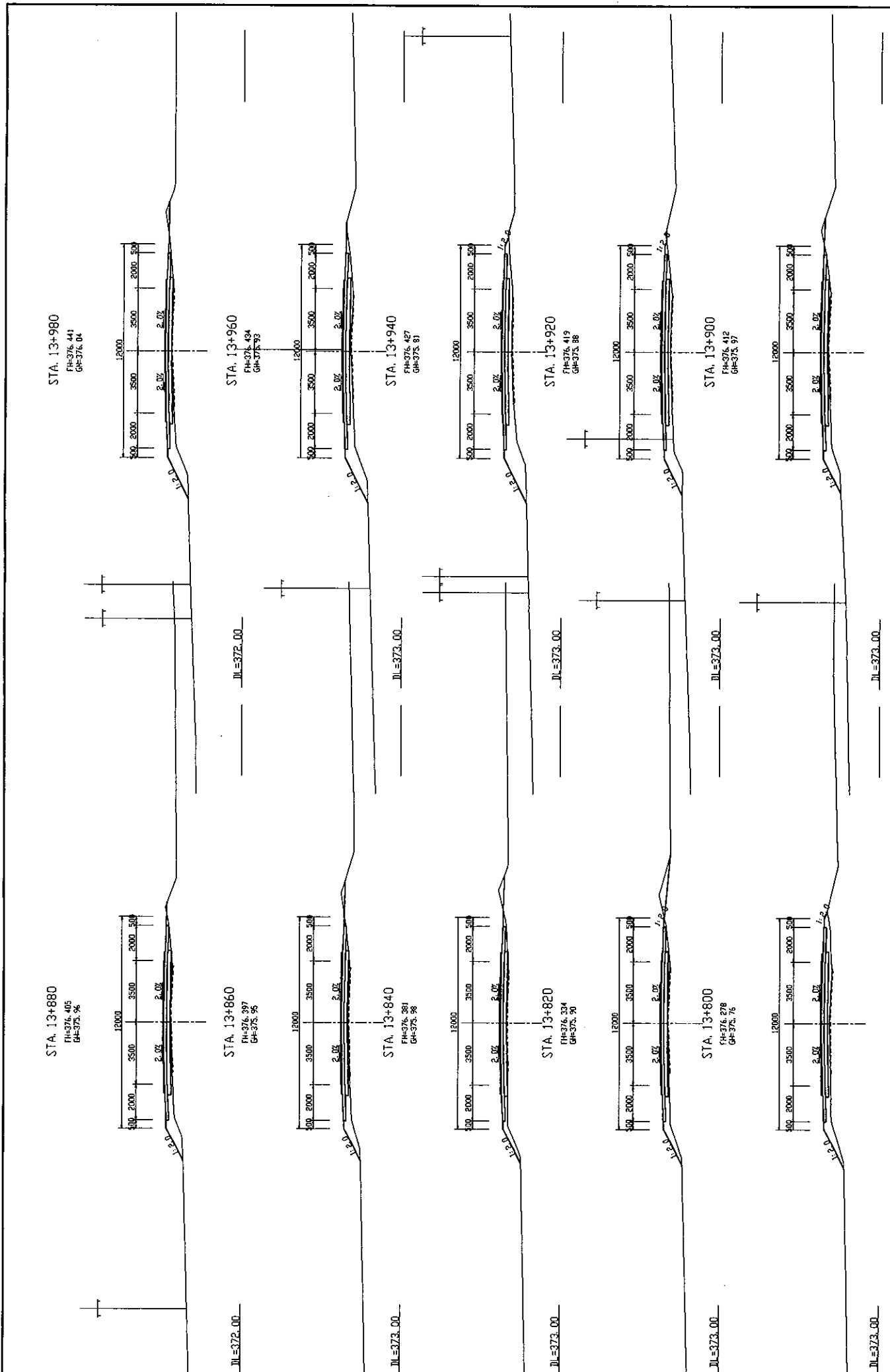


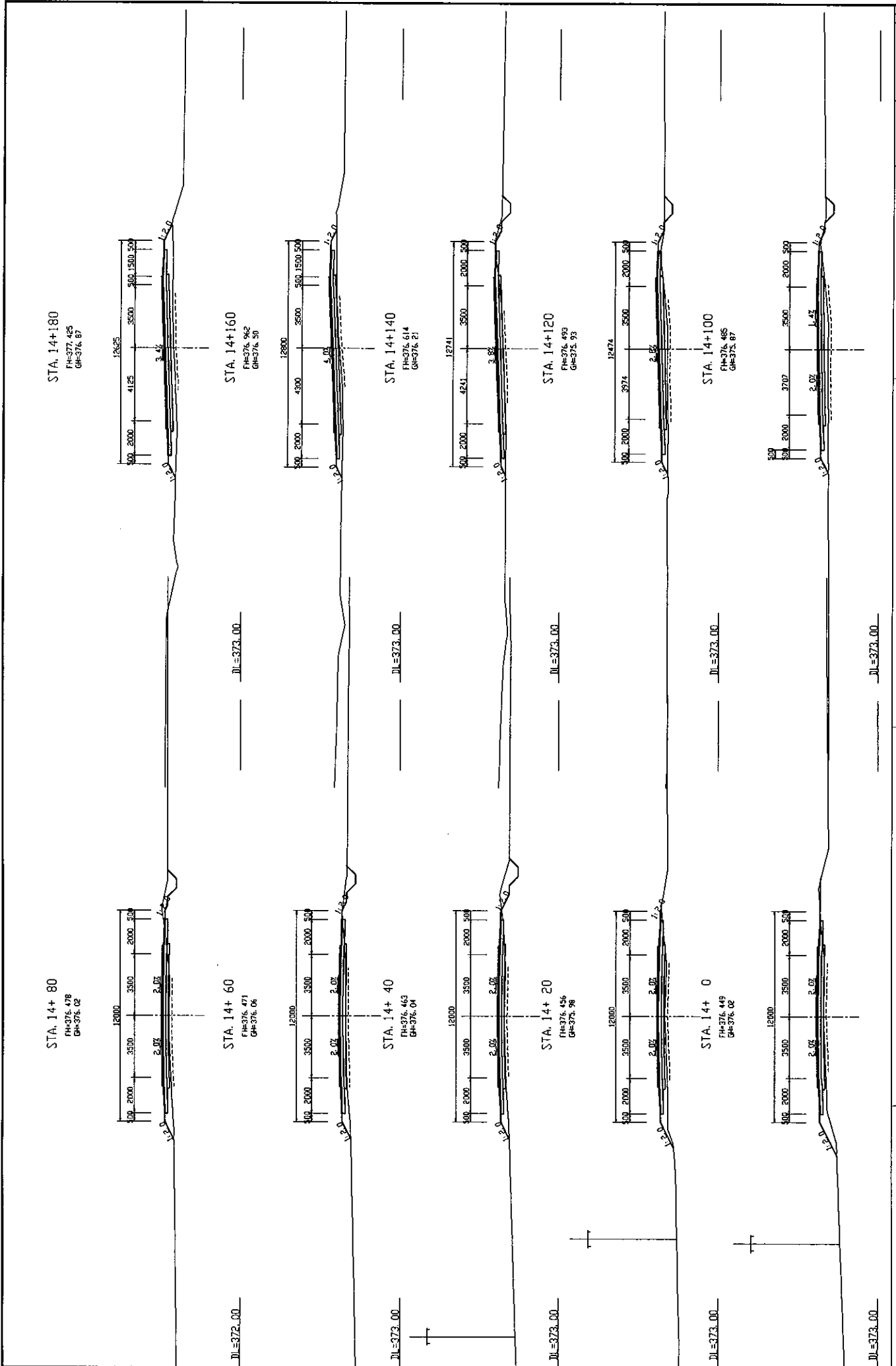
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DEGIN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 13+400 - STA. 13+580)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-65
			<b>REV.</b>		



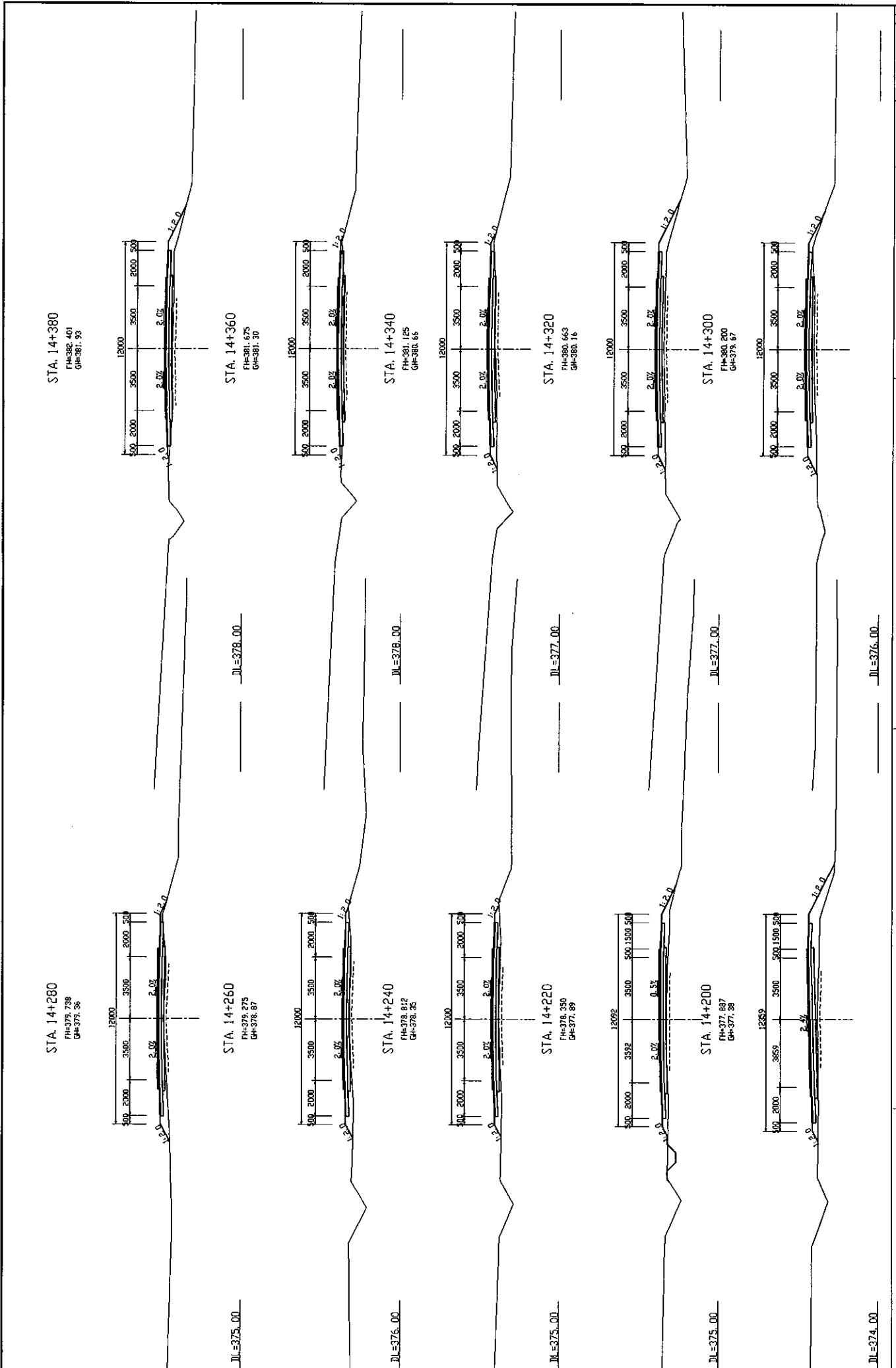
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIRINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 13+600 - STA. 13+780)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-66
			<b>REV.:</b>		



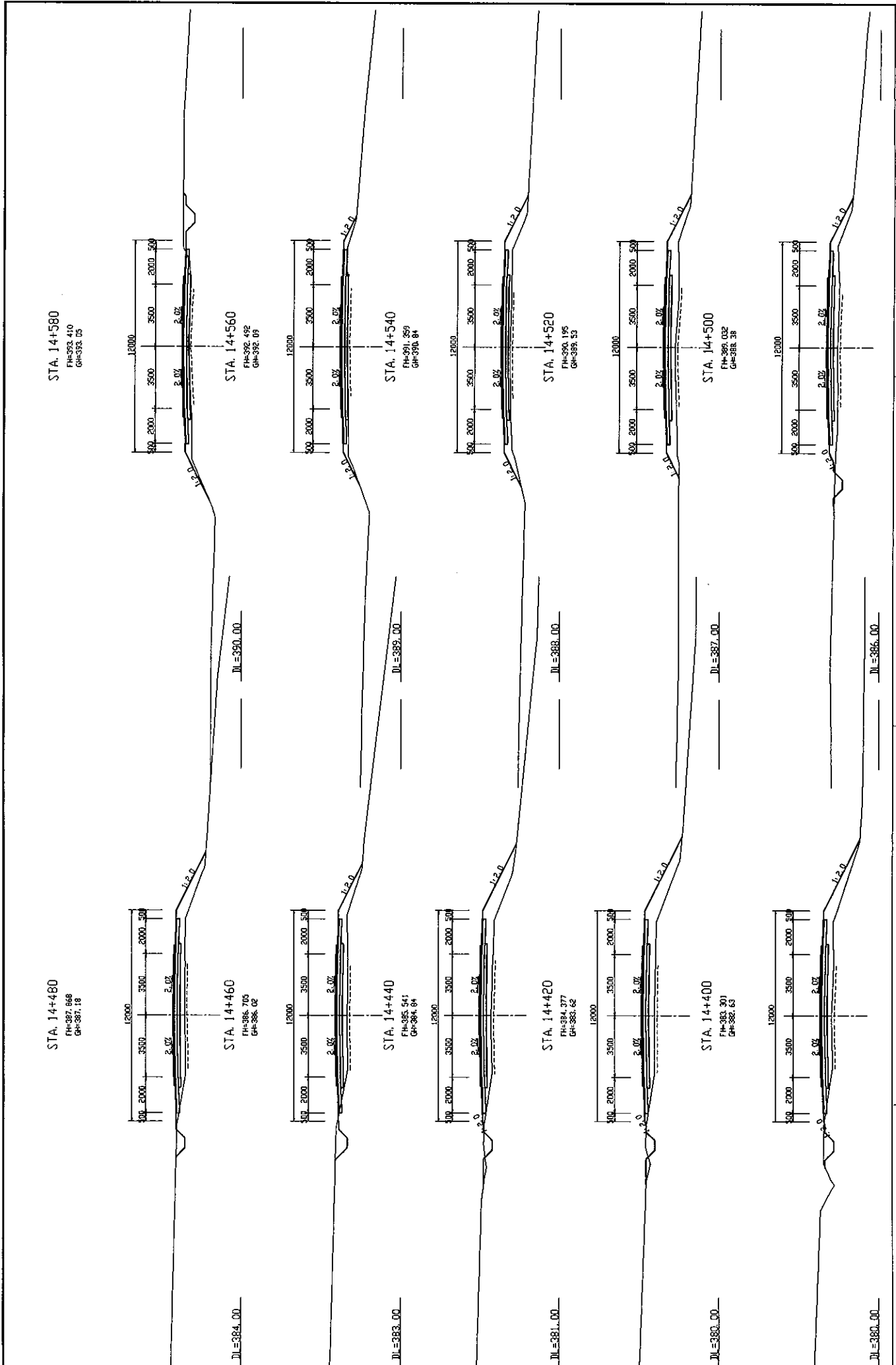
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC BEGIN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIJNIY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 13+800 - STA. 13+980)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-67
			<b>Rev.</b>		



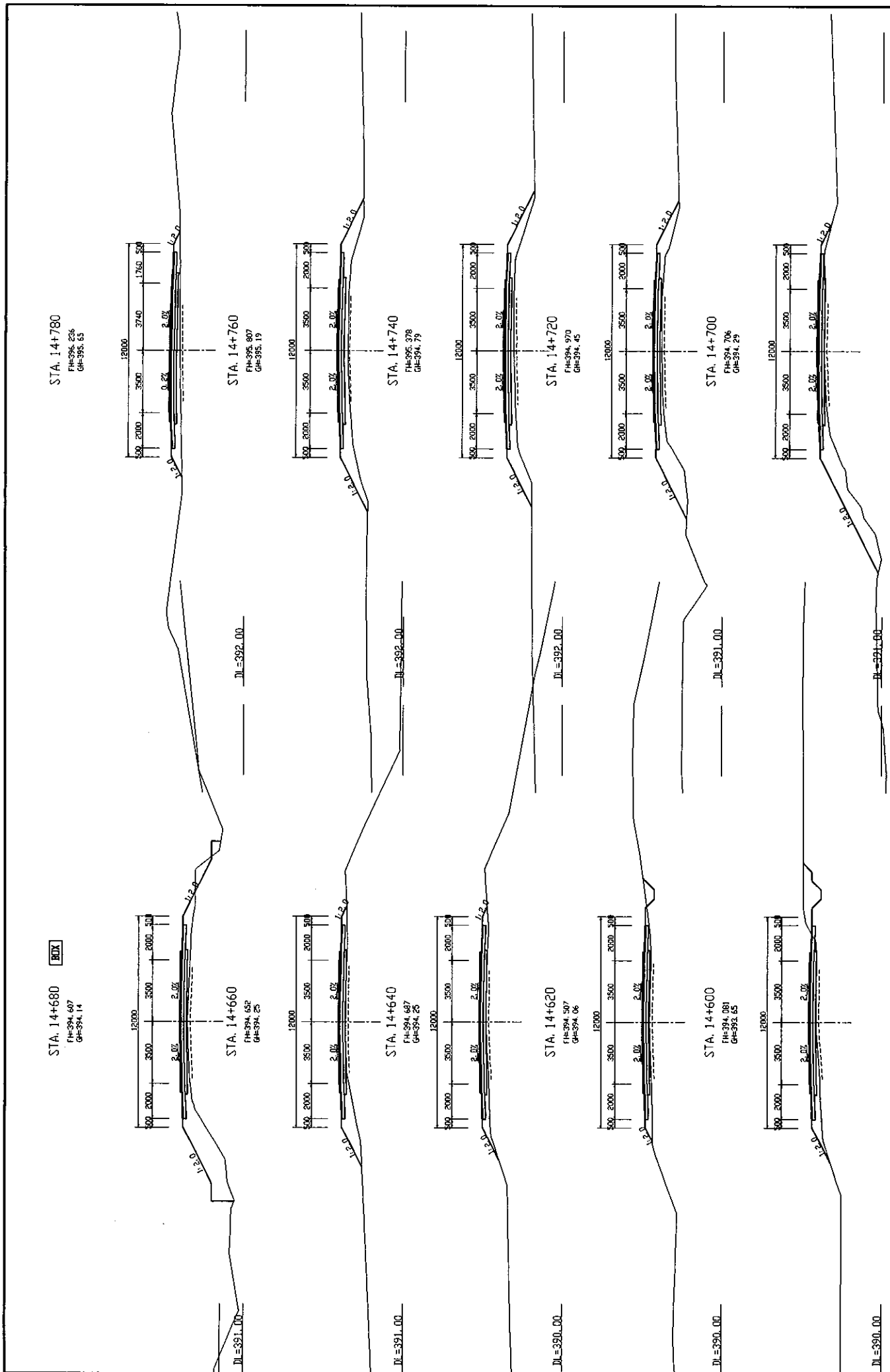
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 14+0 - STA. 14+180)	<b>SCALE:</b> 1:100	<b>DRAWING NO:</b> CS-68
			<b>Rev.</b>		



MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	CROSS SECTIONS OF ROAD (STA. 14+200 - STA. 14+380)	SCALE:	1:100	DRAWING No:	CS-69	REV.



<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DEGIN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 14+400 - STA. 14+580)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-70
			<b>Rev.</b>		



STA. 14+780  
FH=394.23  
GH=394.55

STA. 14+760  
FH=392.807  
GH=392.19

STA. 14+740  
FH=395.378  
GH=394.79

STA. 14+720  
FH=394.970  
GH=394.45

STA. 14+700  
FH=394.706  
GH=394.29

STA. 14+680  
FH=394.607  
GH=394.14

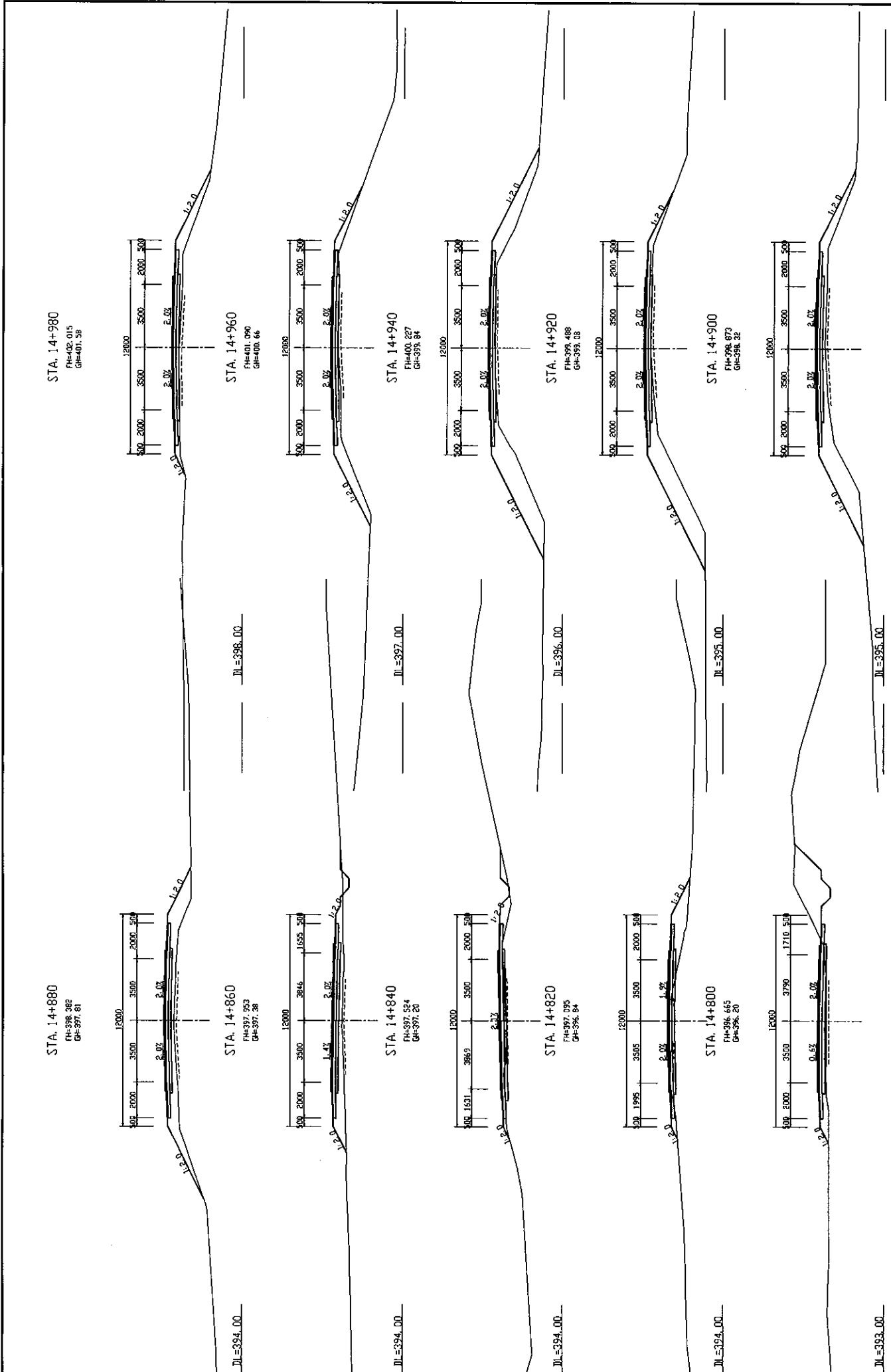
STA. 14+660  
FH=394.652  
GH=394.35

STA. 14+640  
FH=394.687  
GH=394.25

STA. 14+620  
FH=394.507  
GH=394.06

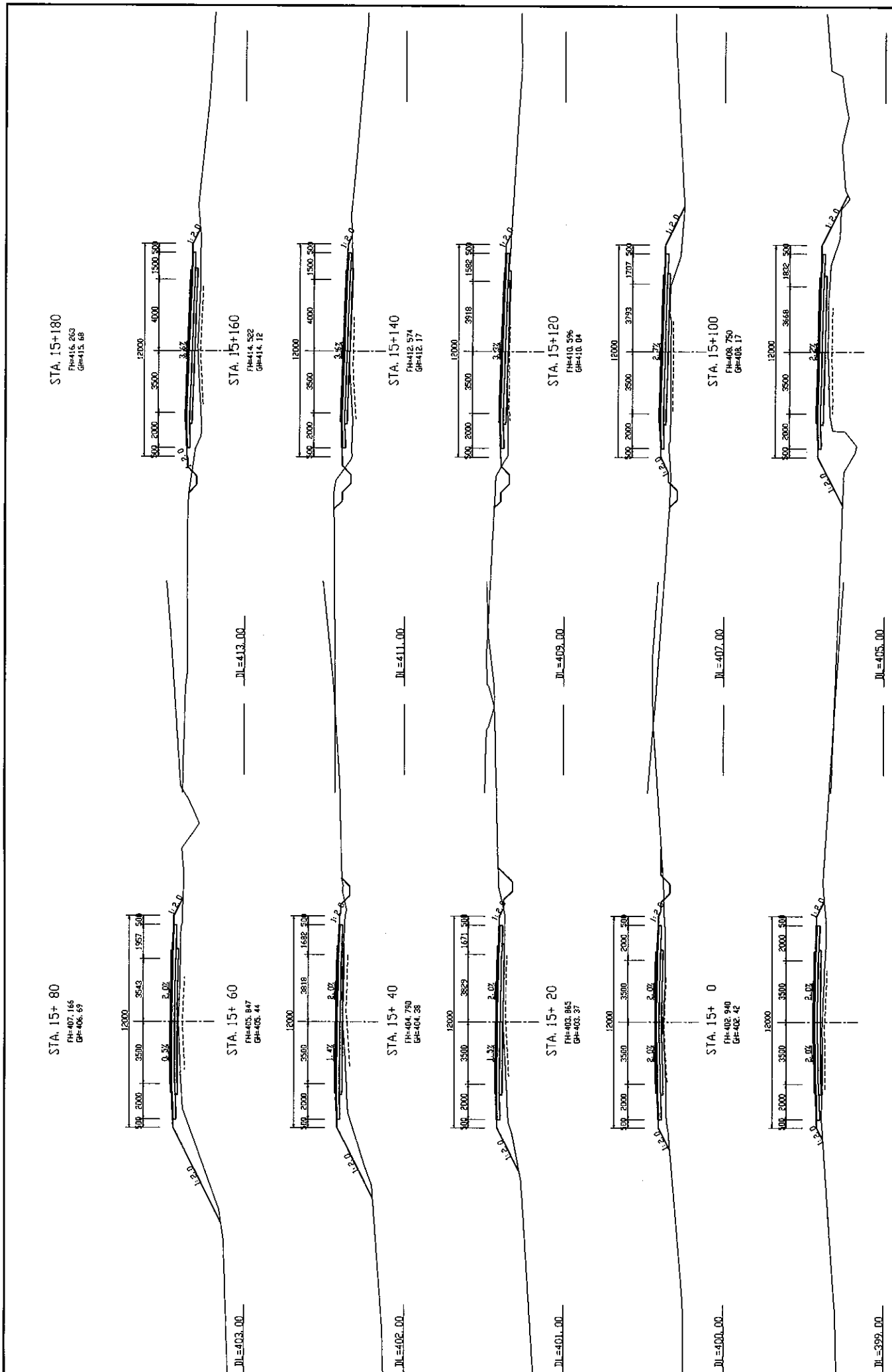
STA. 14+600  
FH=394.081  
GH=393.65

<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 14+600 - STA. 14+780)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-71
			<b>NO.:</b>		

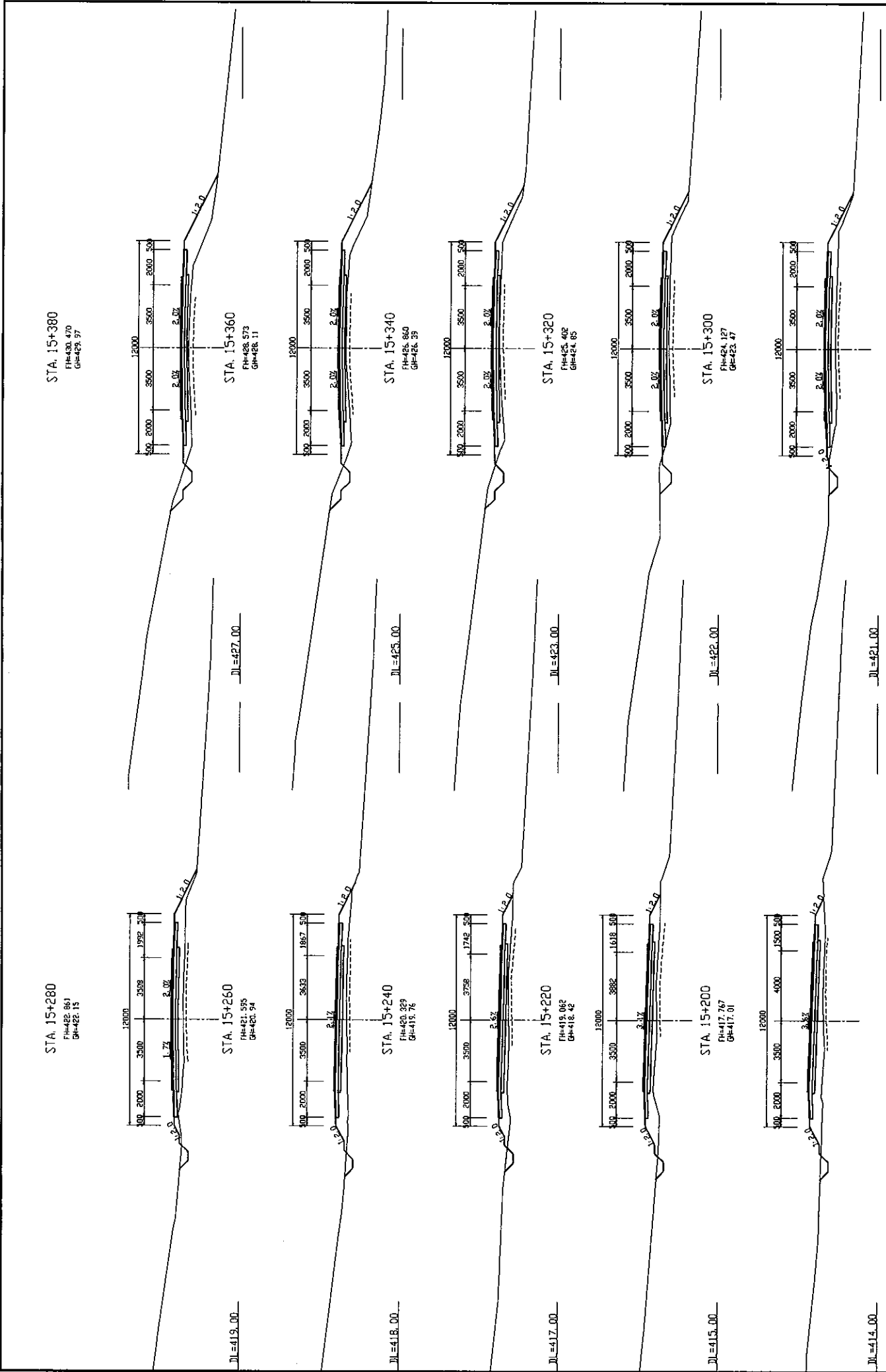


<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 14+800 - STA. 14+980)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-72
			<b>DR. = 394.00</b>	<b>DR. = 395.00</b>	<b>DR. = 395.00</b>

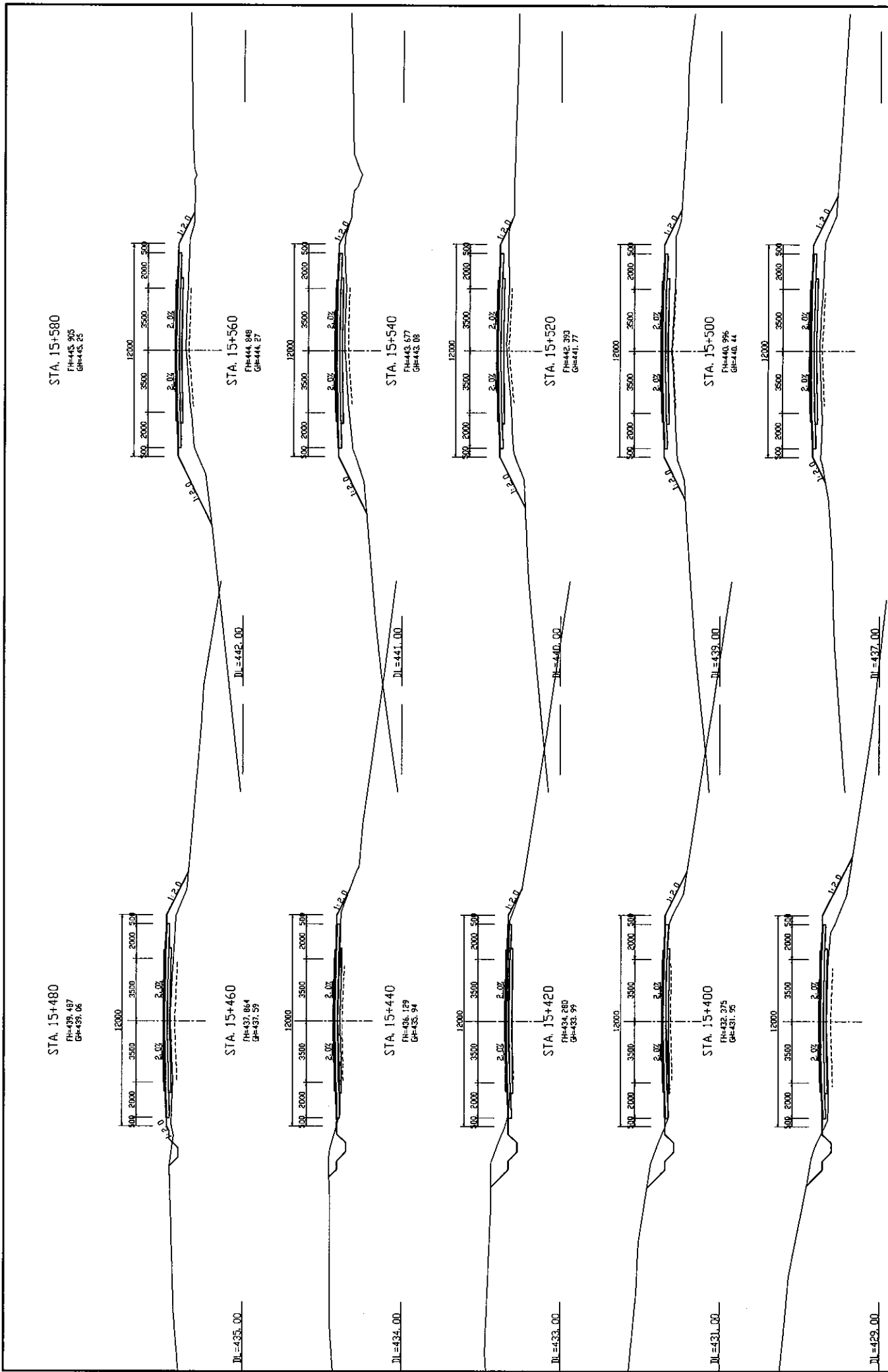




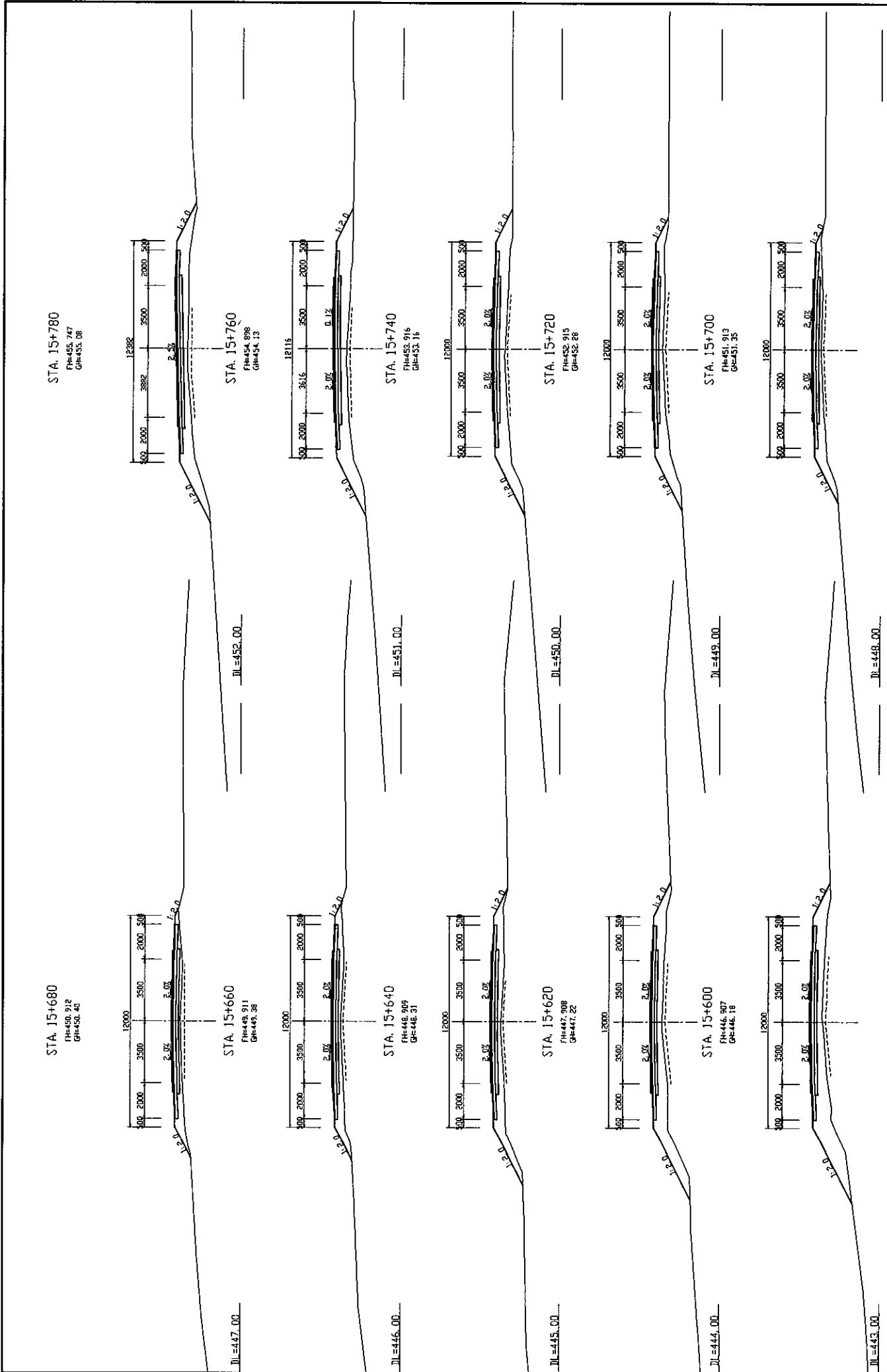
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 15+0 - STA. 15+180)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-73
			<b>REV.</b>		



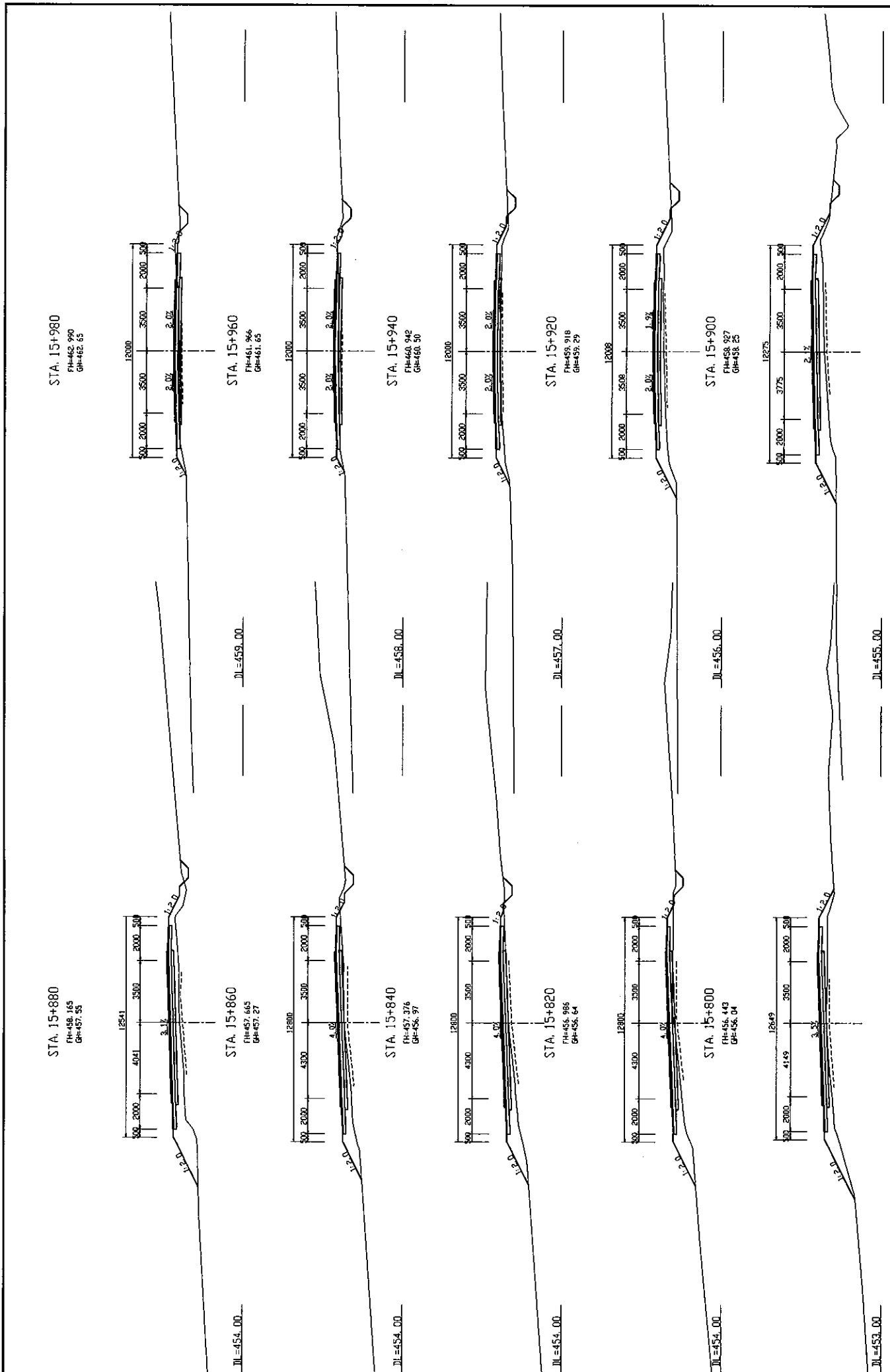
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 15+200 - STA. 15+380)	
			<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-74
				<b>REV.</b>



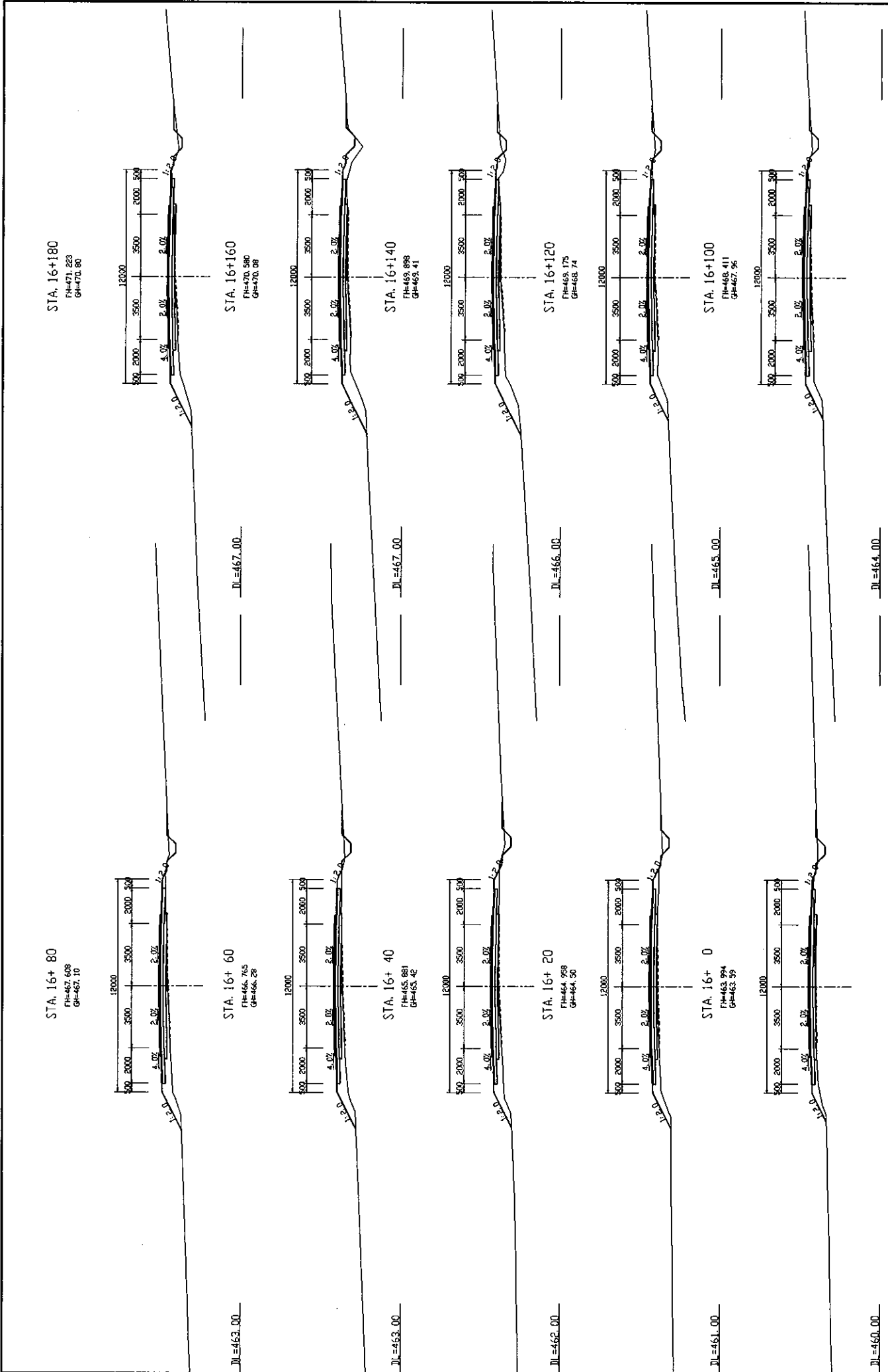
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NINNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 15+400 - STA. 15+580)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-75
			<b>REV.:</b>		



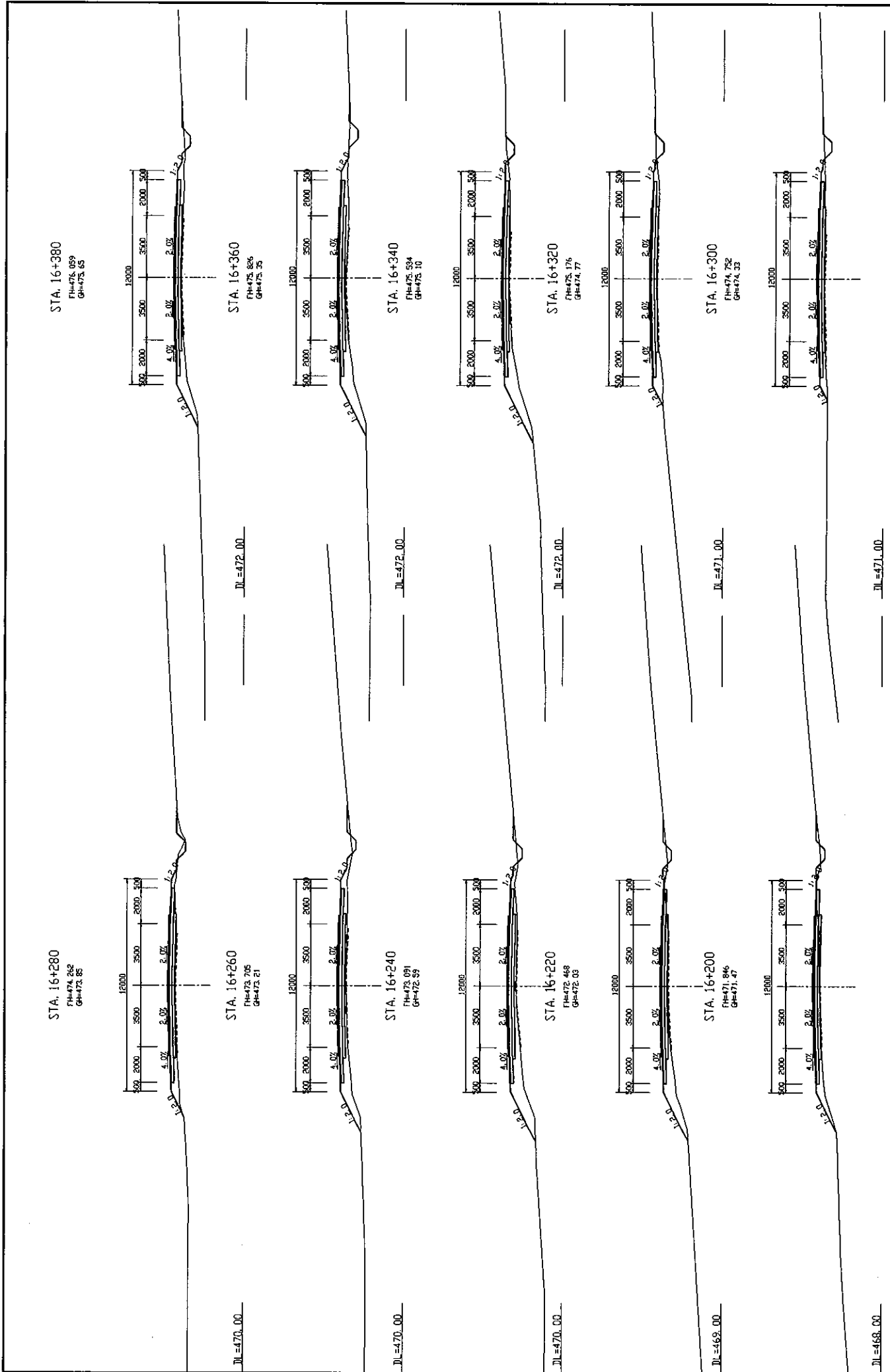
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DEGIN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJRY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 15+600 - STA. 15+780)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-76
			<b>Rev:</b>		



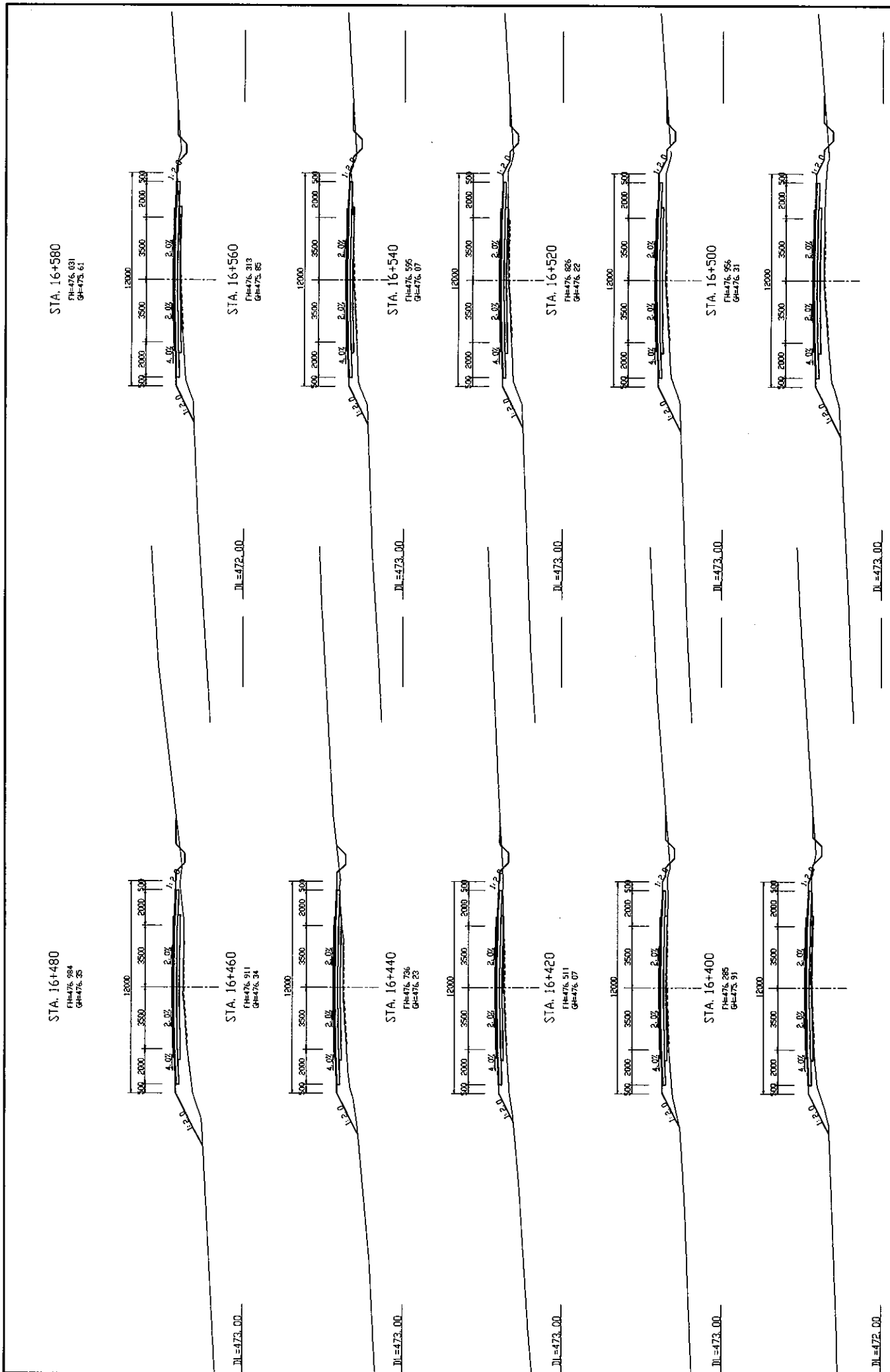
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 15+800 - STA. 15+980)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-77
			<b>STA. 15+800 - STA. 15+980</b>	<b>1:100</b>	<b>CS-77</b>



<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 16+0 - STA. 16+180)	<b>DRAWING NO:</b> <b>CS-78</b>
		<b>SCALE:</b> <b>1:100</b>	<b>REV:</b>

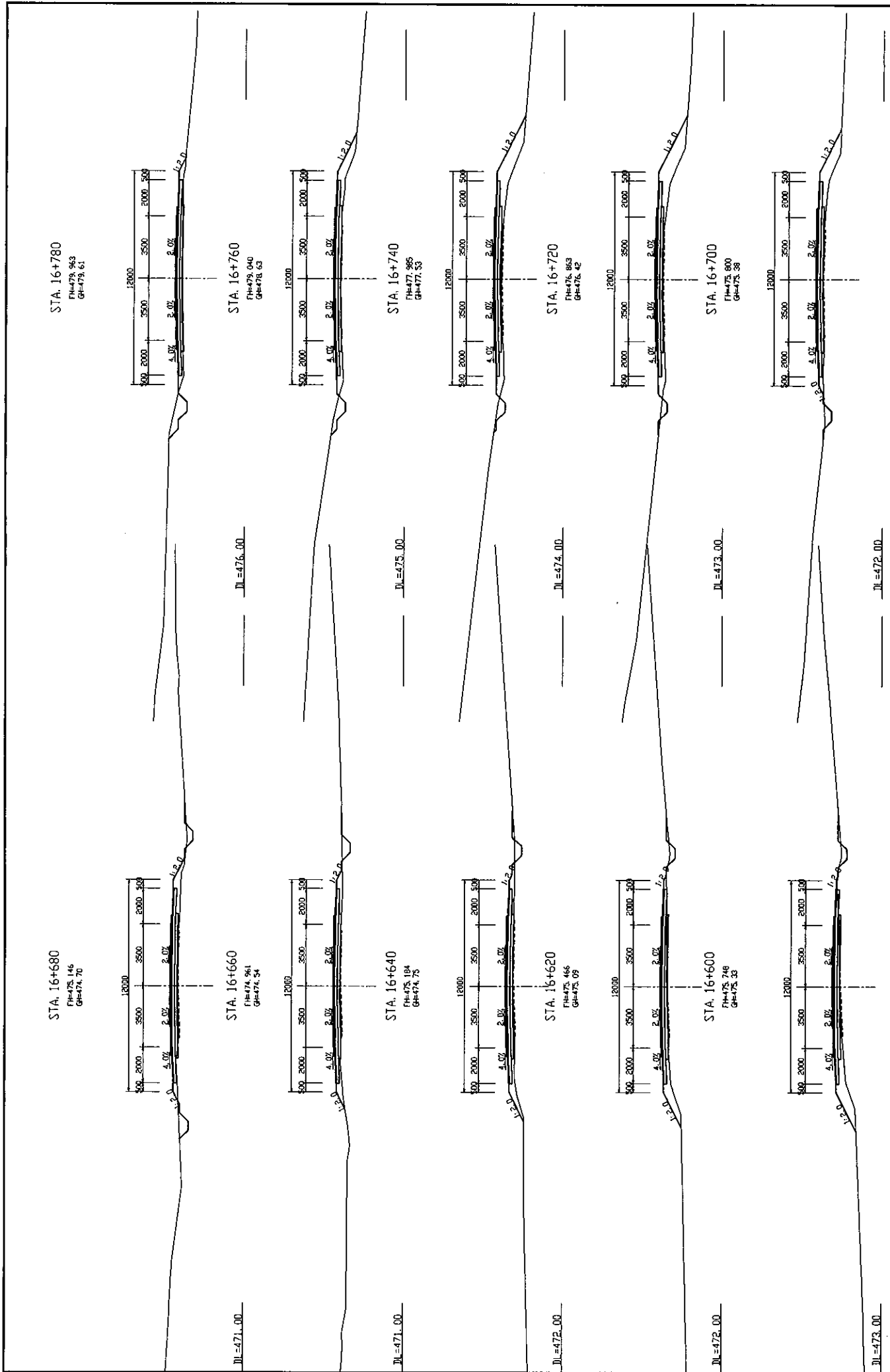


<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR</b> <b>IMPROVEMENT OF DUSTY-NOJINY PYANDZH ROAD</b> <b>IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 16+200 - STA. 16+380)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-79
			<b>REV.</b>		

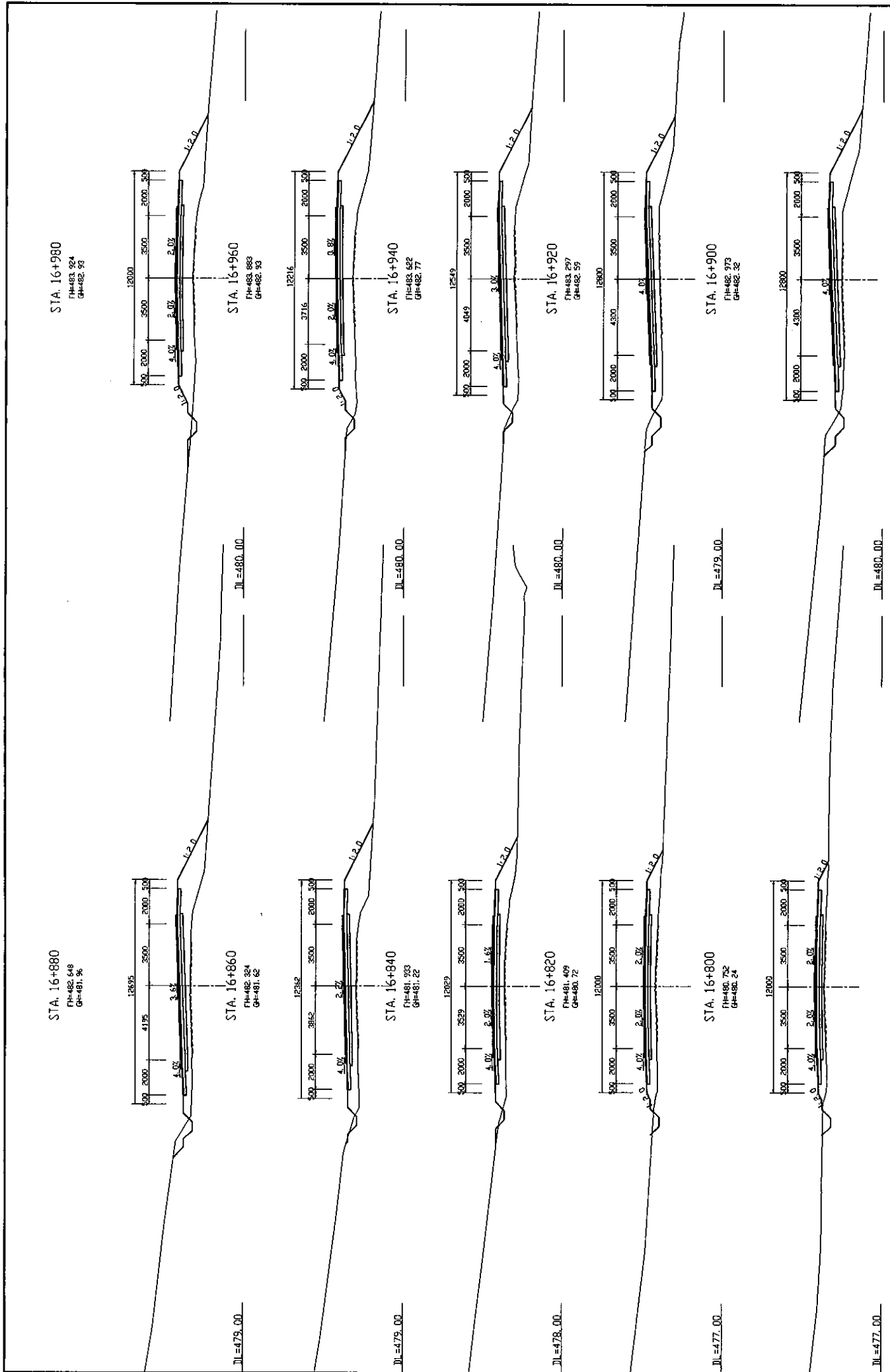


<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NINUY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 16+400 - STA. 16+580)	<b>SCALE:</b> 1:100	<b>DRAWING NO:</b> CS-80
			<b>REV:</b>		

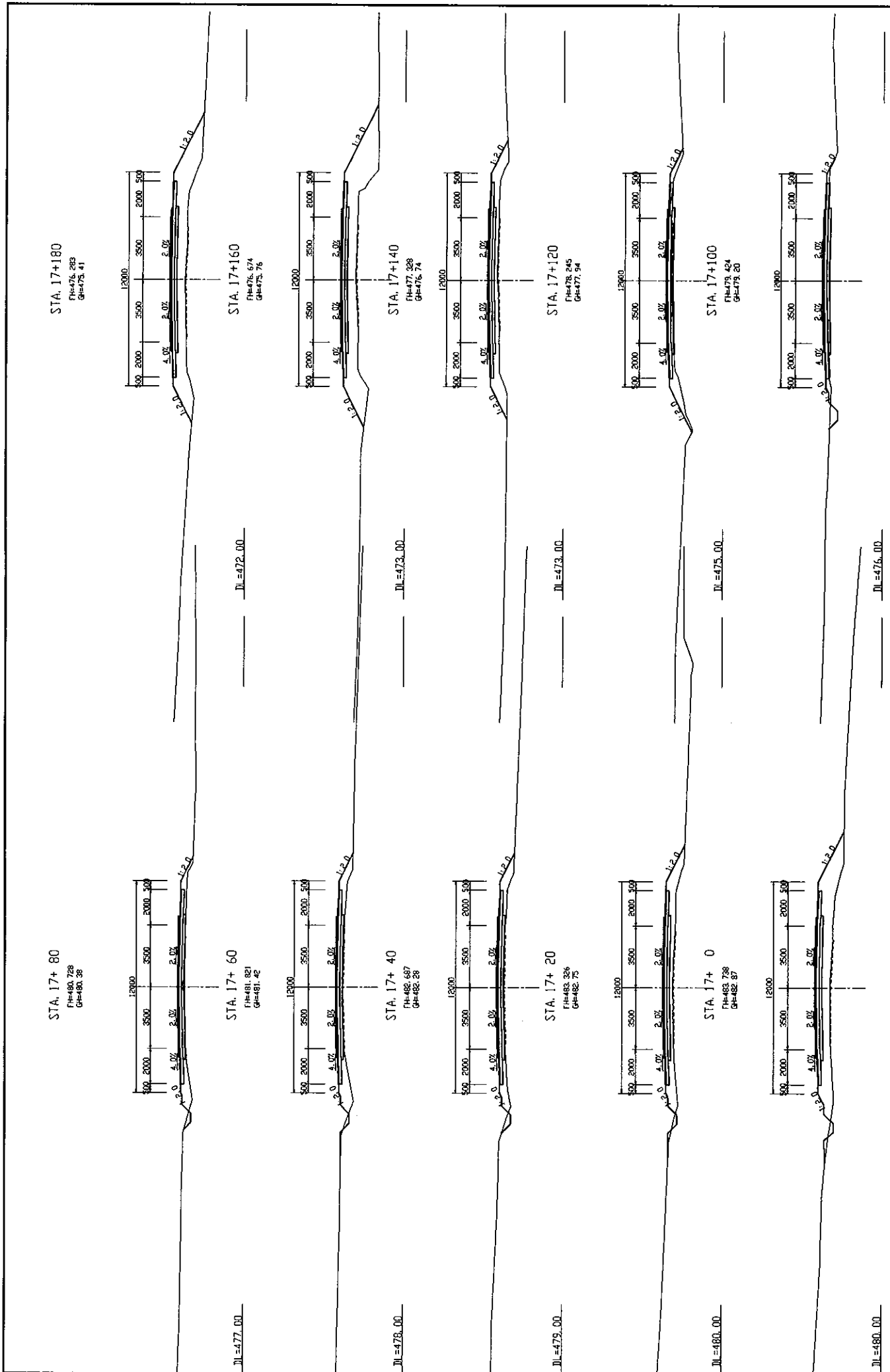




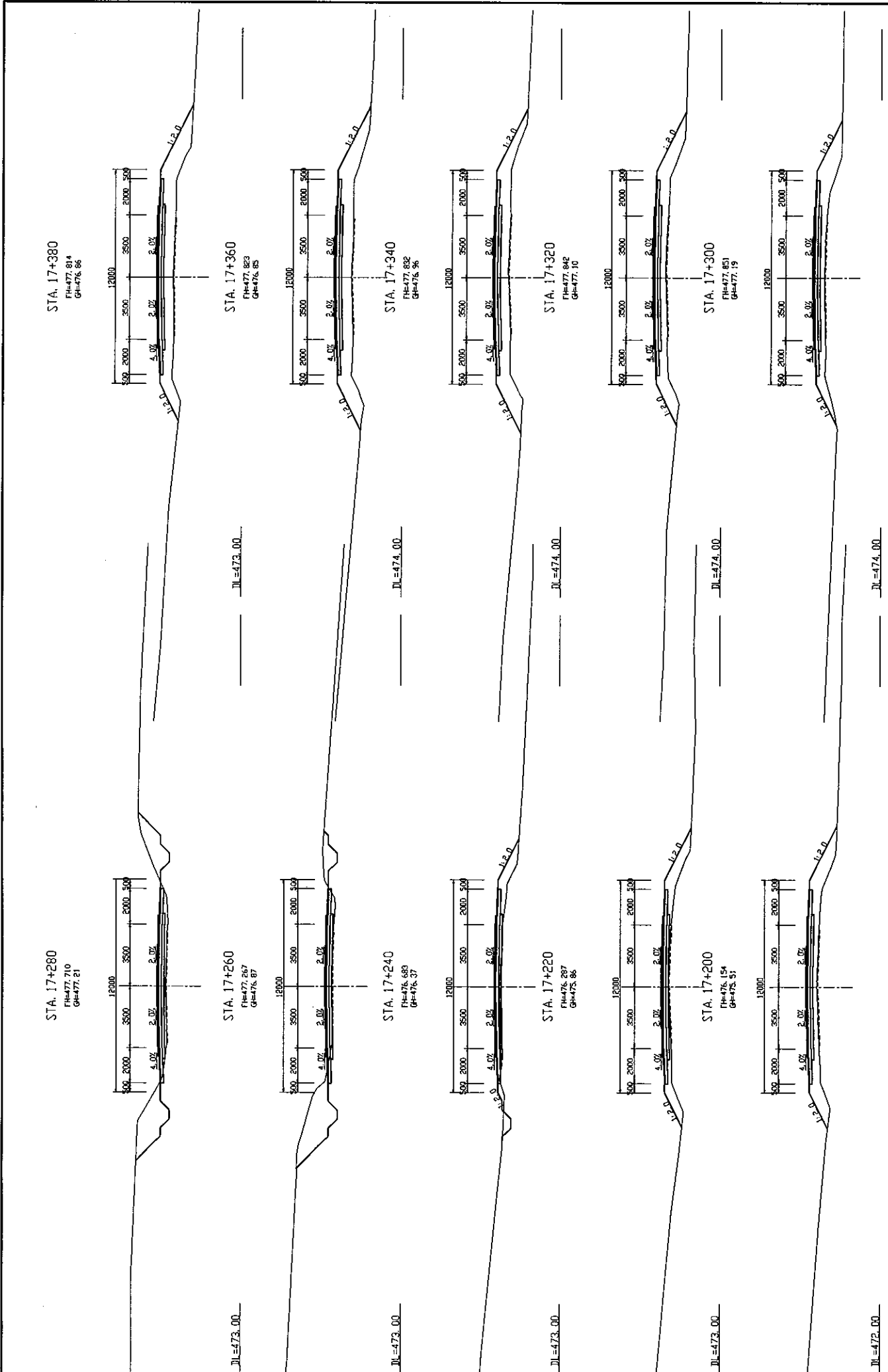
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 16+600 - STA. 16+780)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-81
			<b>REV.:</b>		



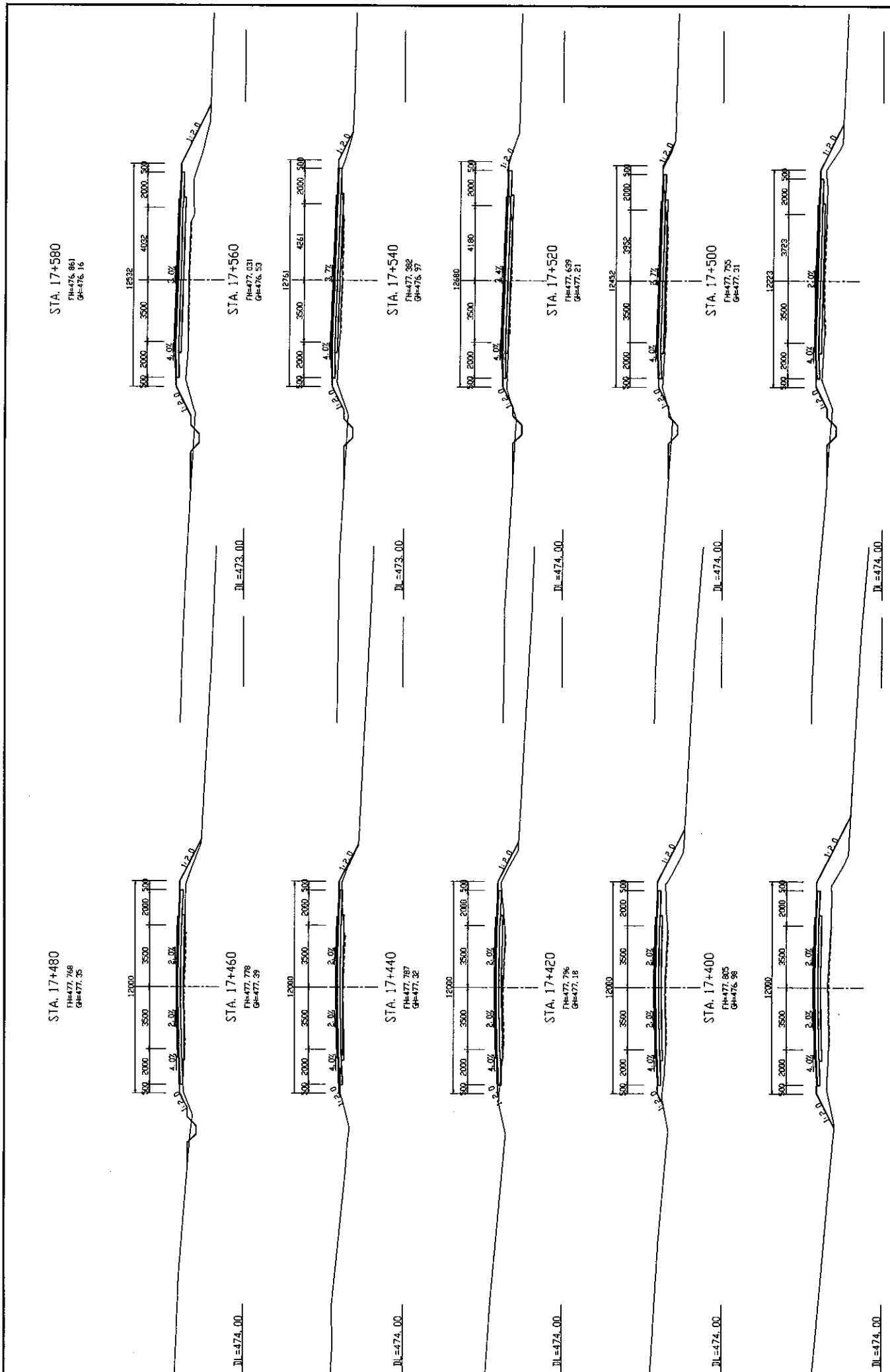
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 16+800 - STA. 16+980)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-82
			<b>REV.:</b>		



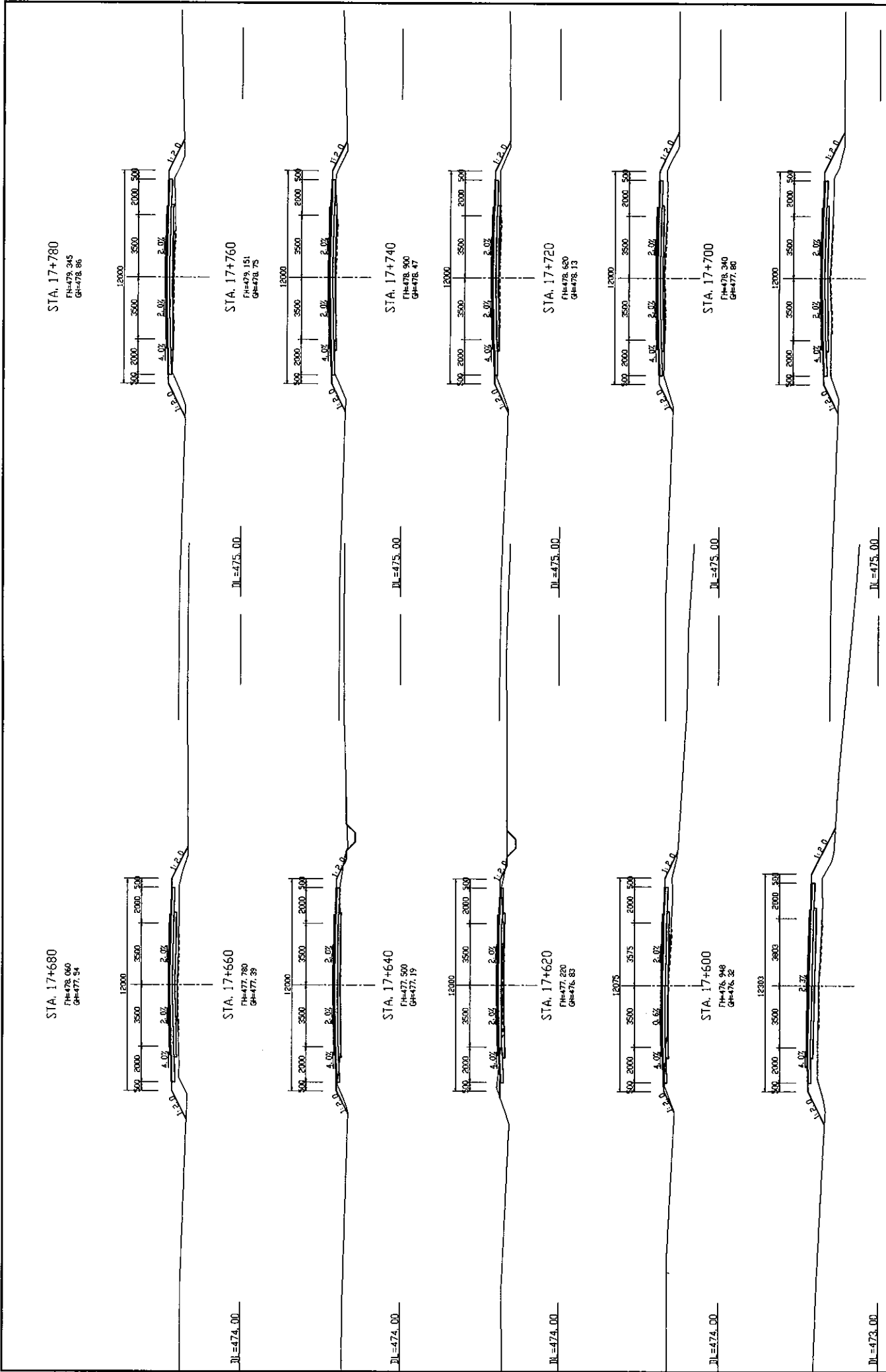
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 17+0 - STA. 17+180)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-83
			<b>Rev:</b>		



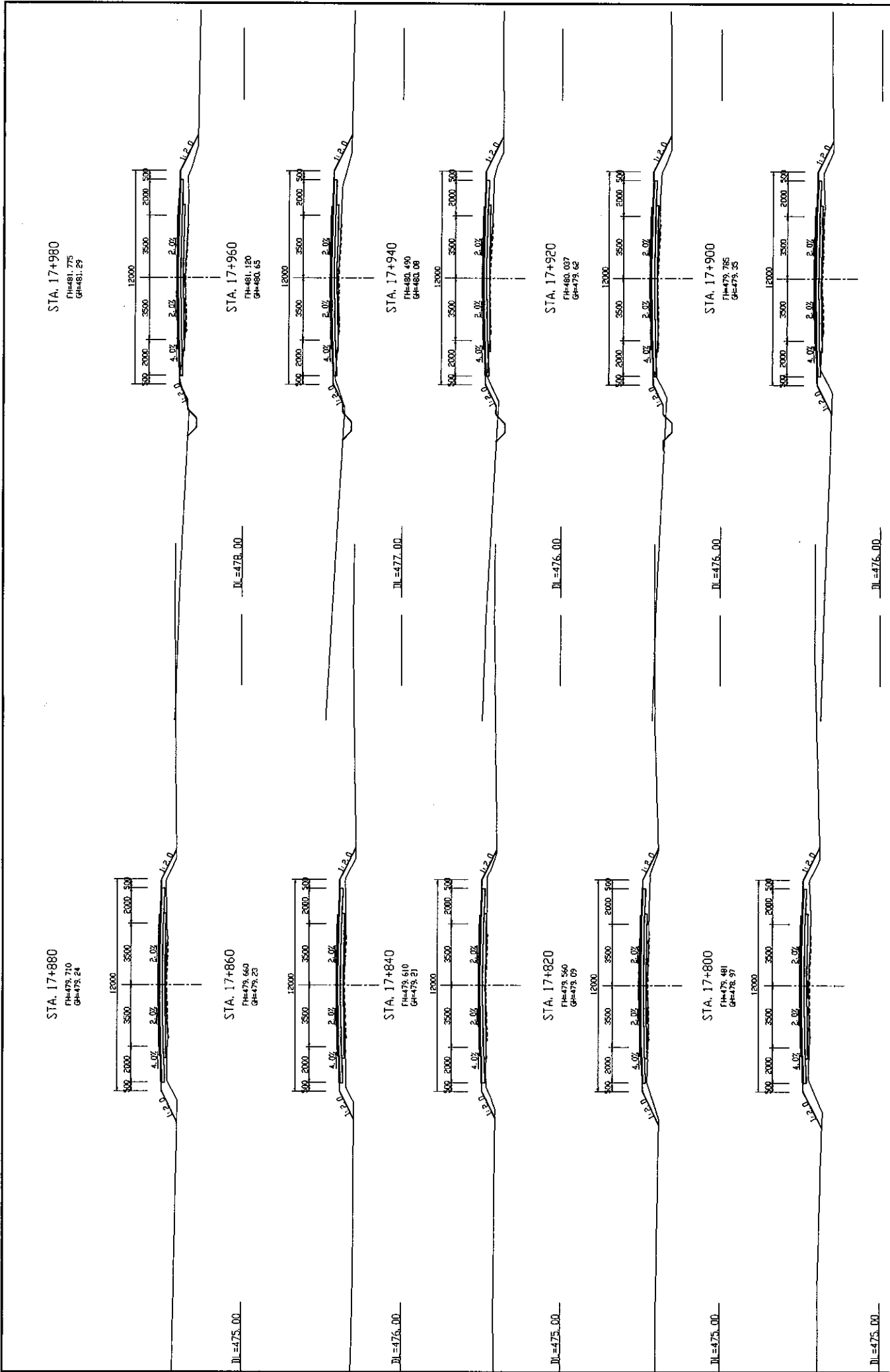
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 17+200 - STA. 17+380)	<b>DRAWING No:</b> <b>CS-84</b>
			<b>SCALE:</b> <b>1:100</b>	<b>REV.</b>



<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NINYI PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 17+400 - STA. 17+580)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-85
			<b>NO.:</b>		



<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NDINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 17+600 - STA. 17+780)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-86
			<b>REV.:</b>		



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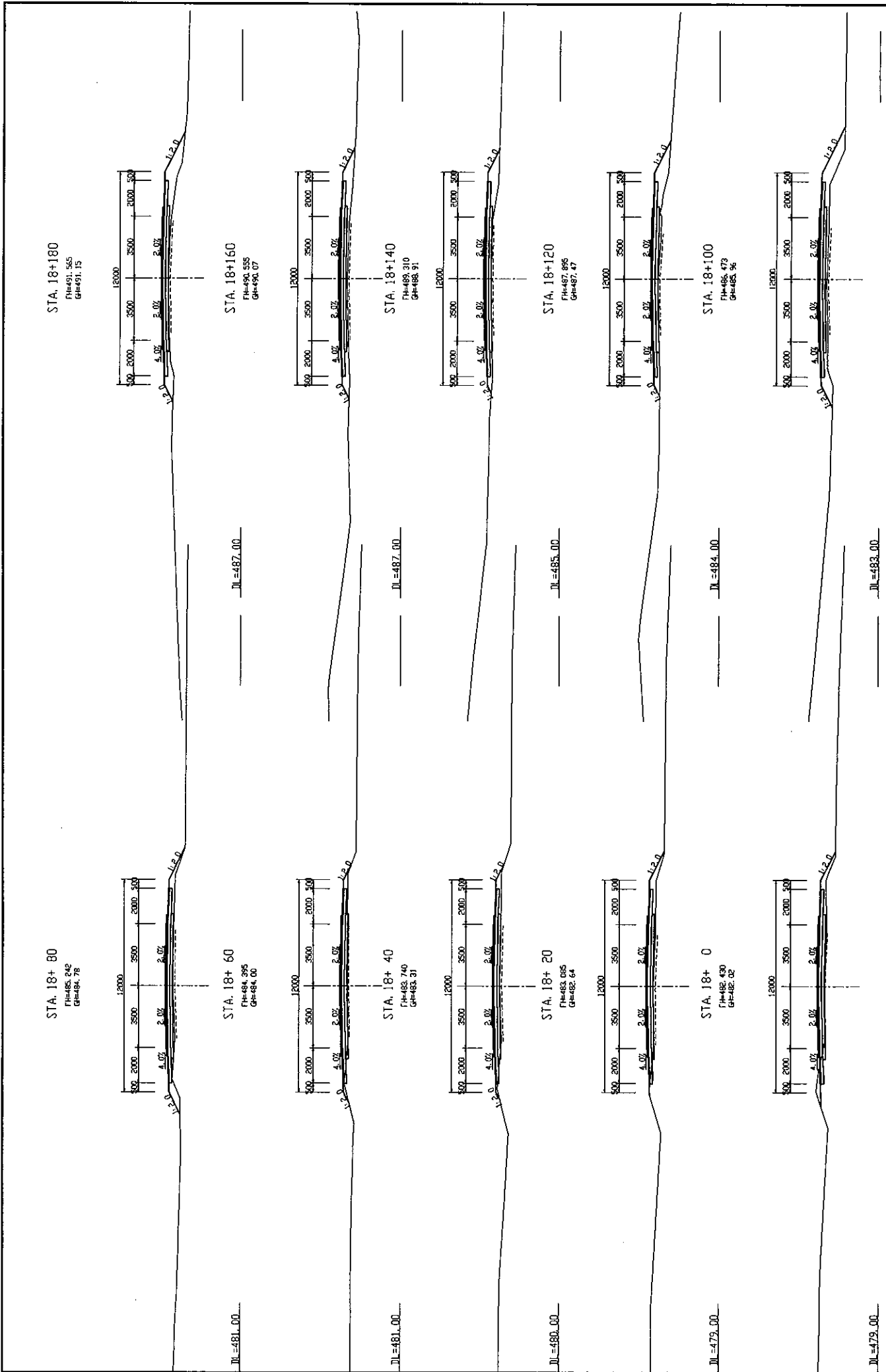
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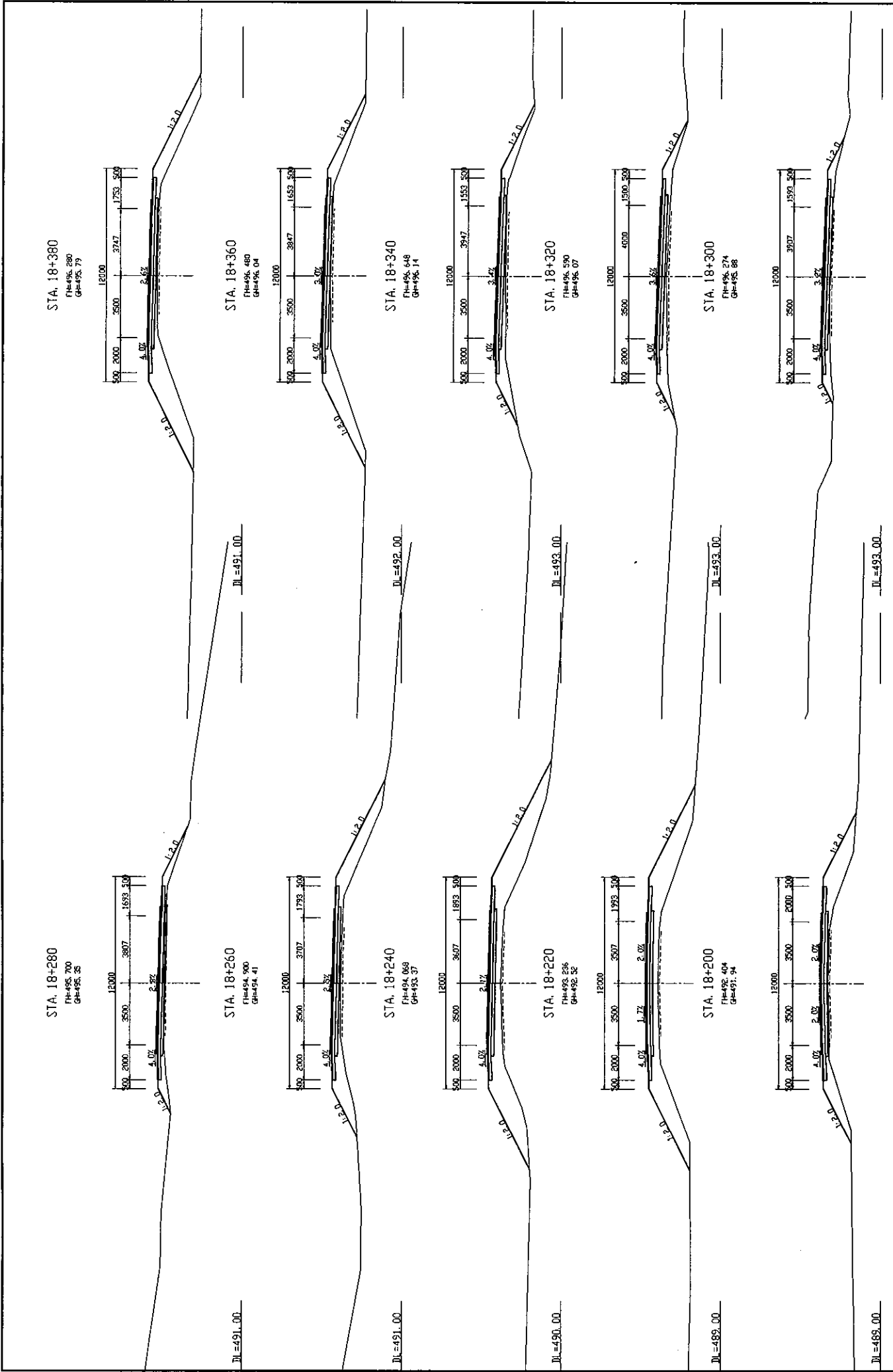
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<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 17+800 - STA. 17+980)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-87
			<b>REV.</b>		

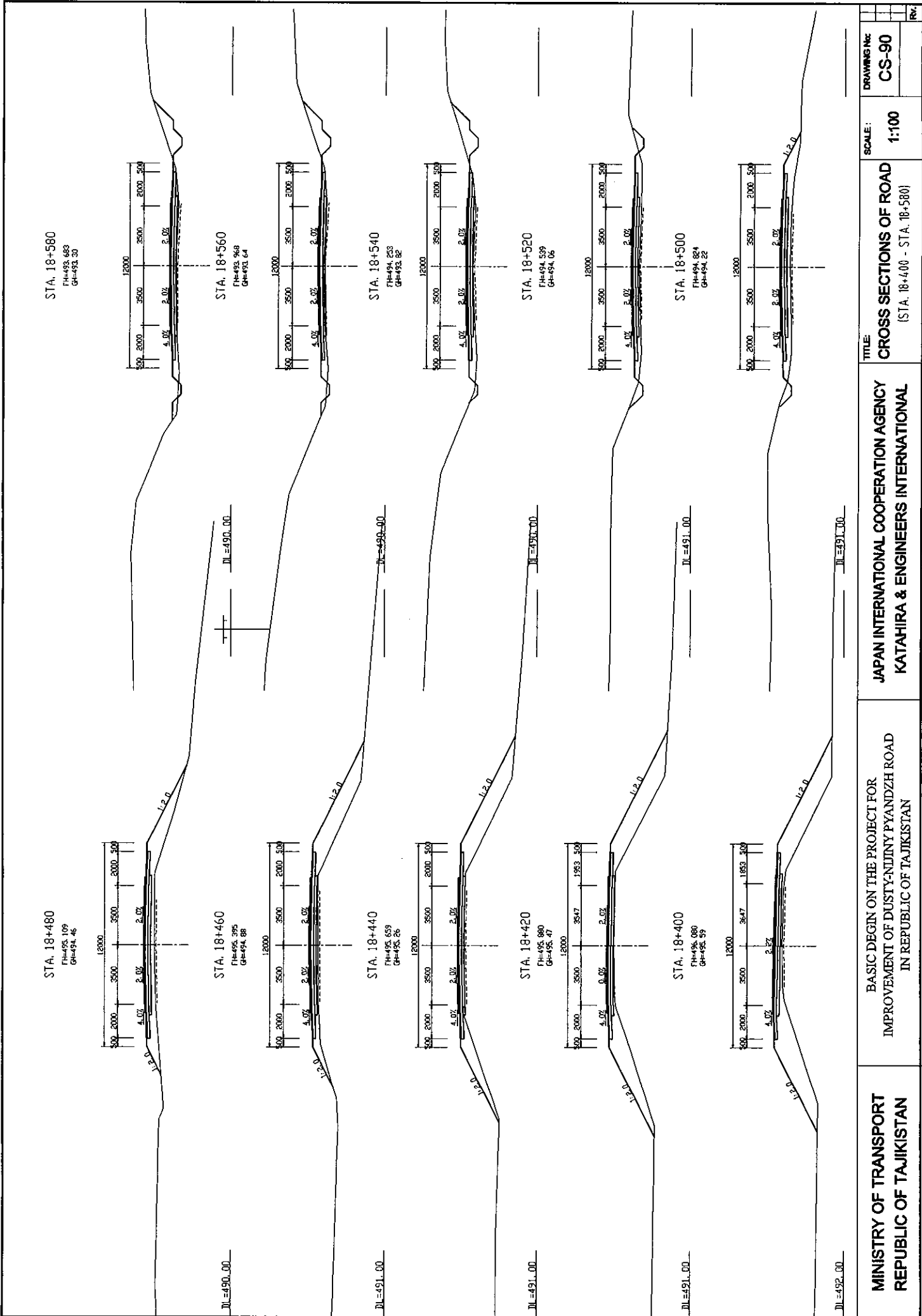


<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 18+0 - STA. 18+180)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-88
			<b>NO.:</b>		

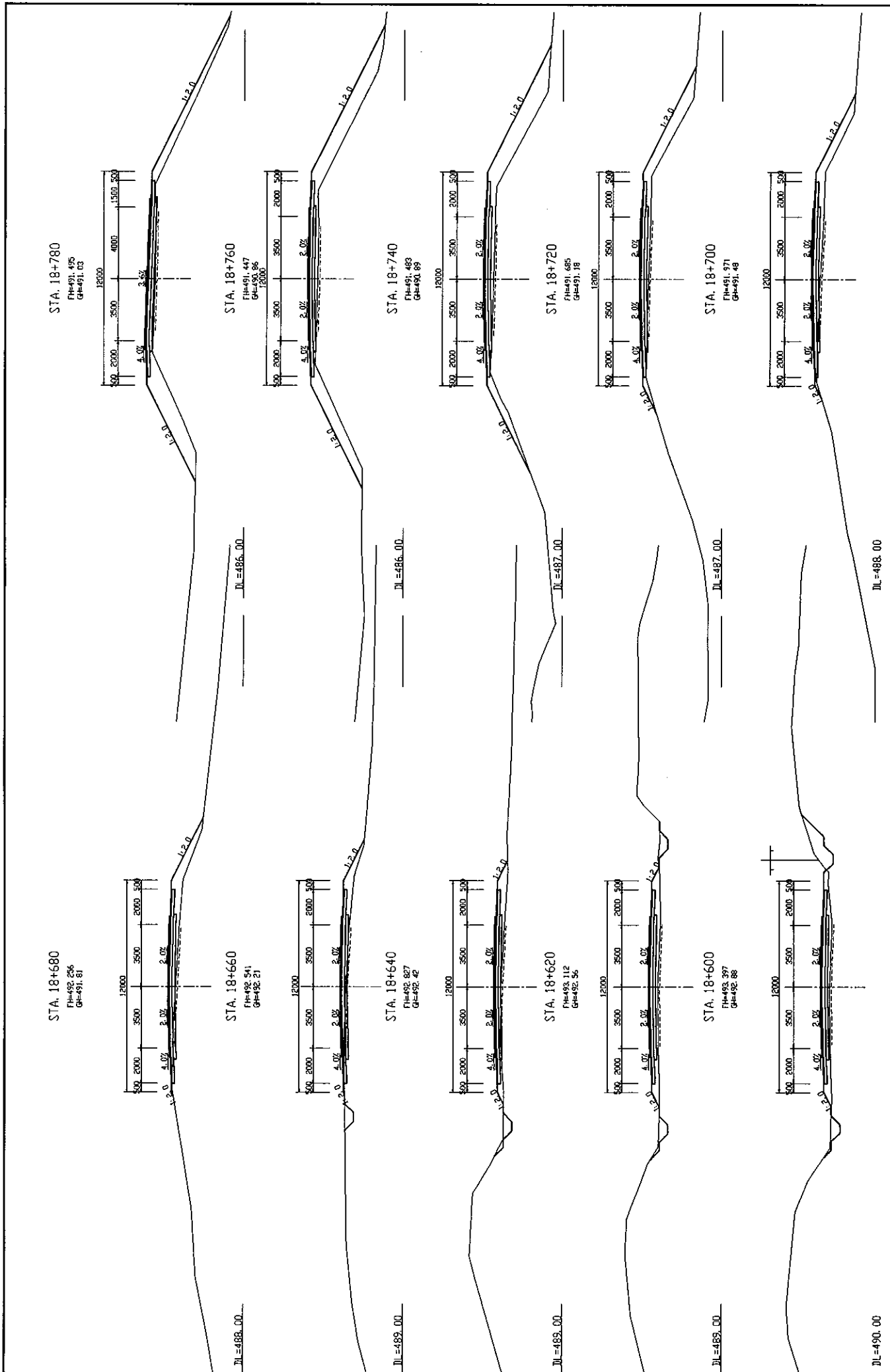




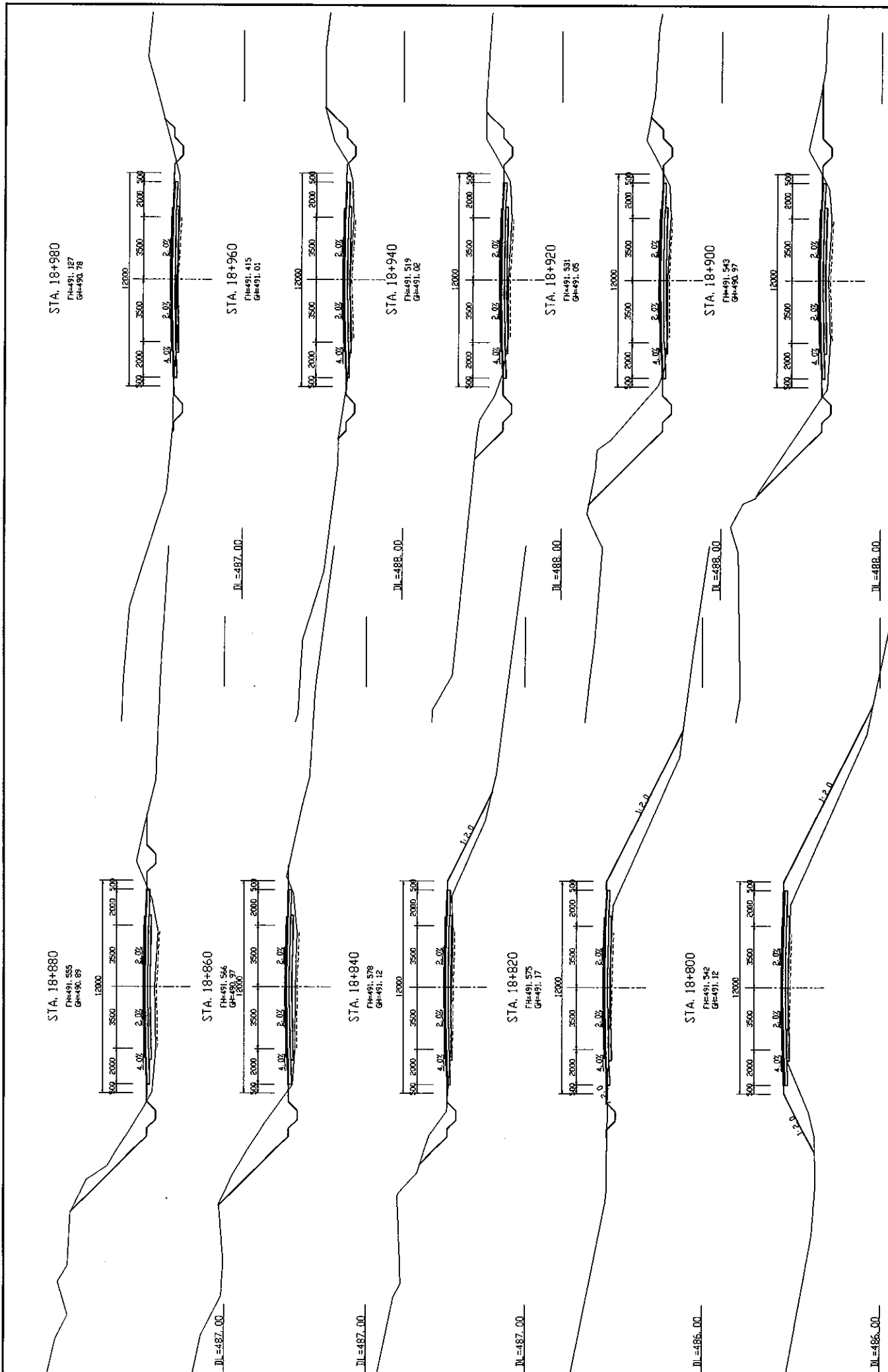
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	DRAWING NO:
			CROSS SECTIONS OF ROAD (STA. 18+200 - STA. 18+380)	CS-89
			SCALE:	REV.
			1:100	



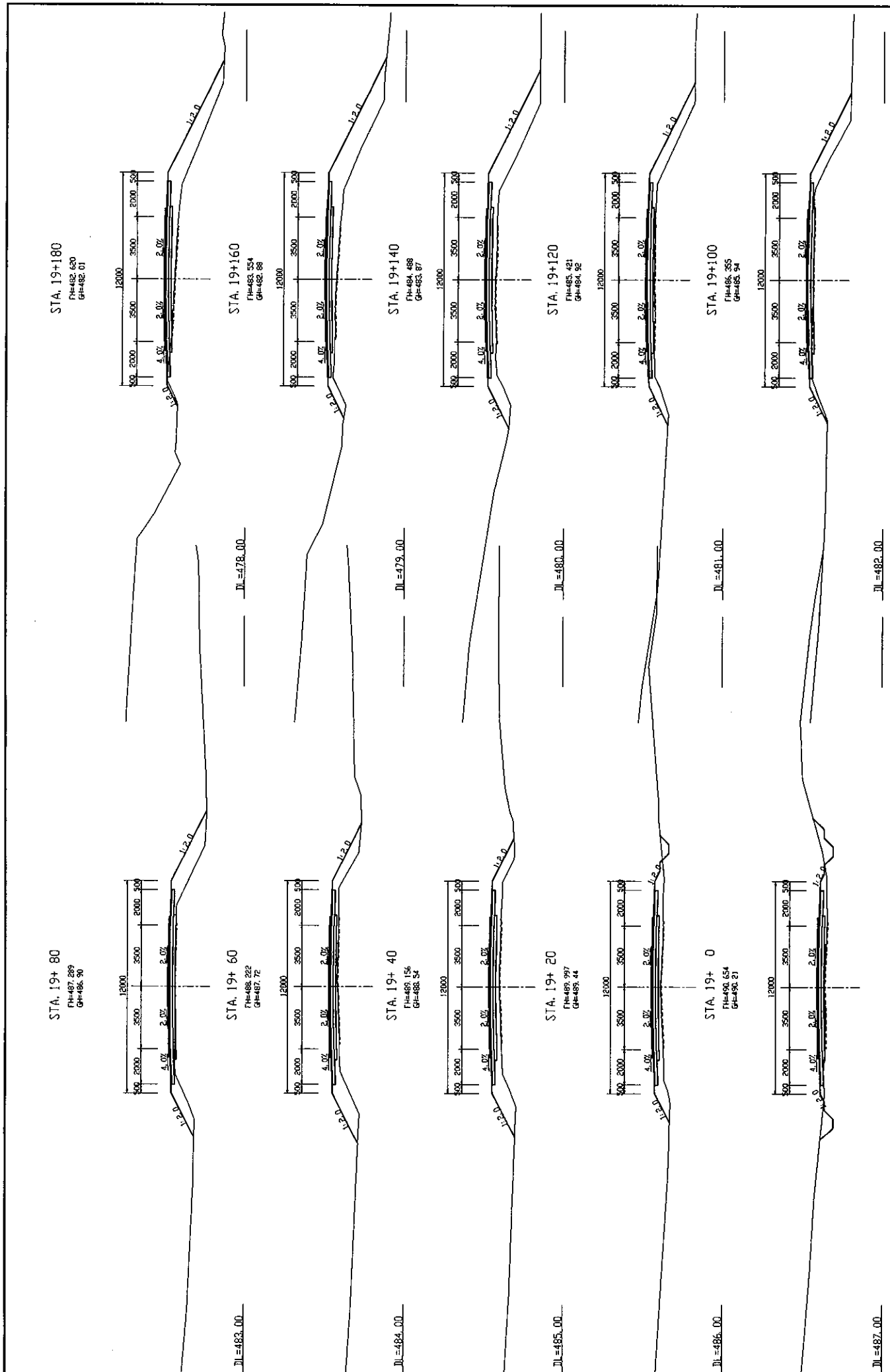
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DEGIN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 18+400 - STA. 18+580)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-90
			<b>REV:</b>		



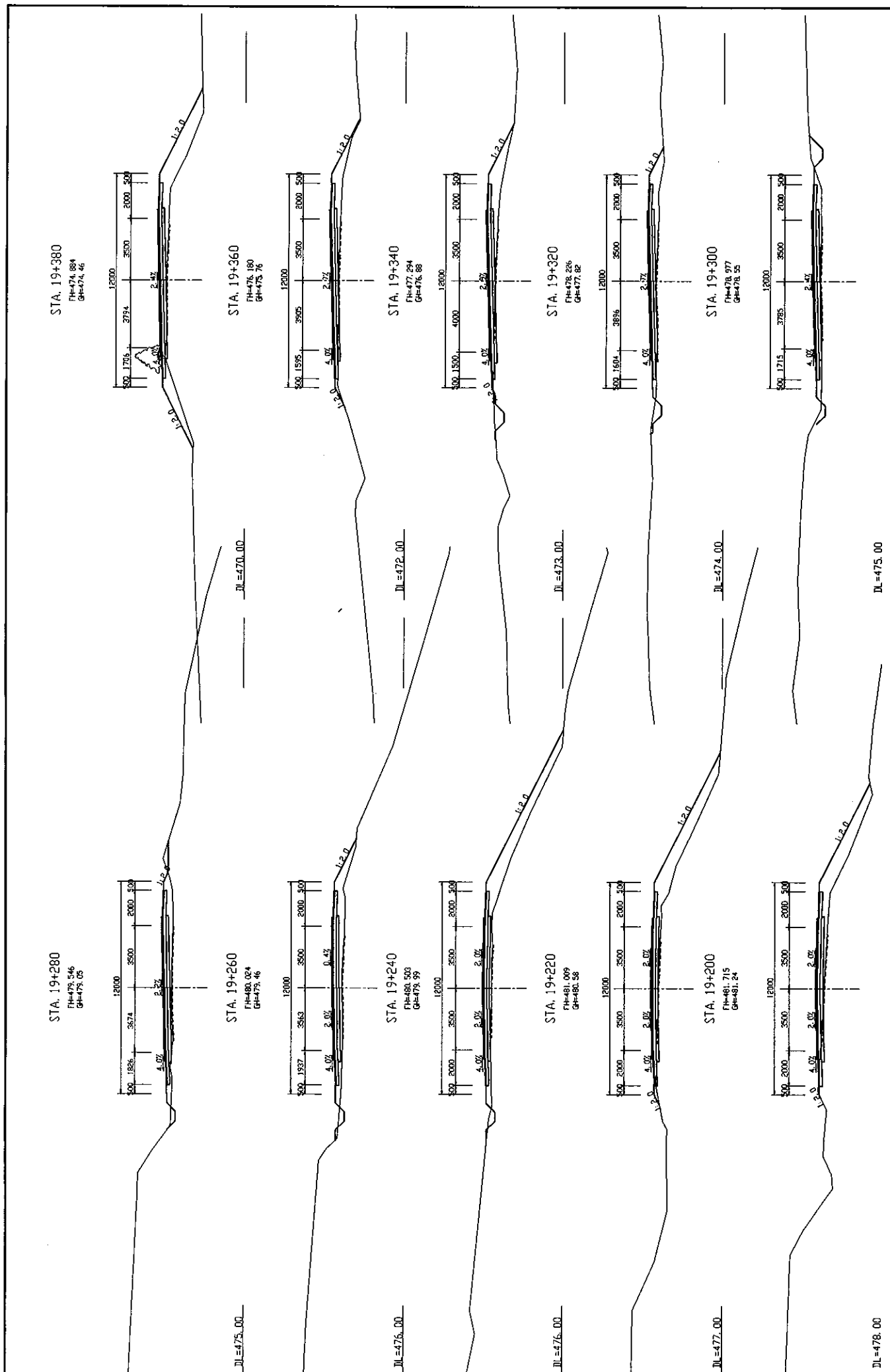
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 18+600 - STA. 18+780)	<b>DRAWING NO.:</b> <b>CS-91</b>
			<b>SCALE:</b> <b>1:100</b>	<b>REV.:</b>



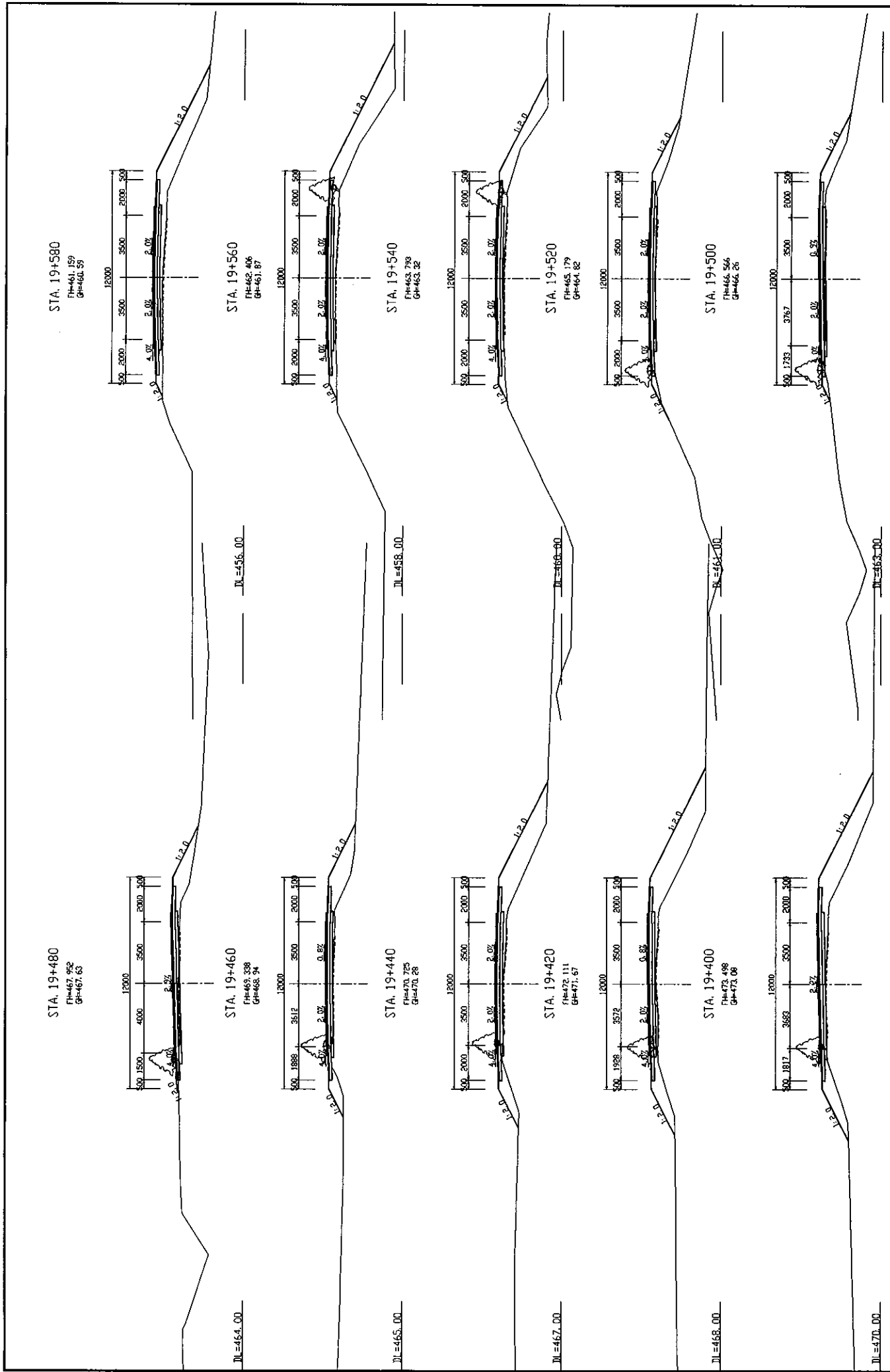
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 18+800 - STA. 18+980)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-92
			<b>REV.:</b>		



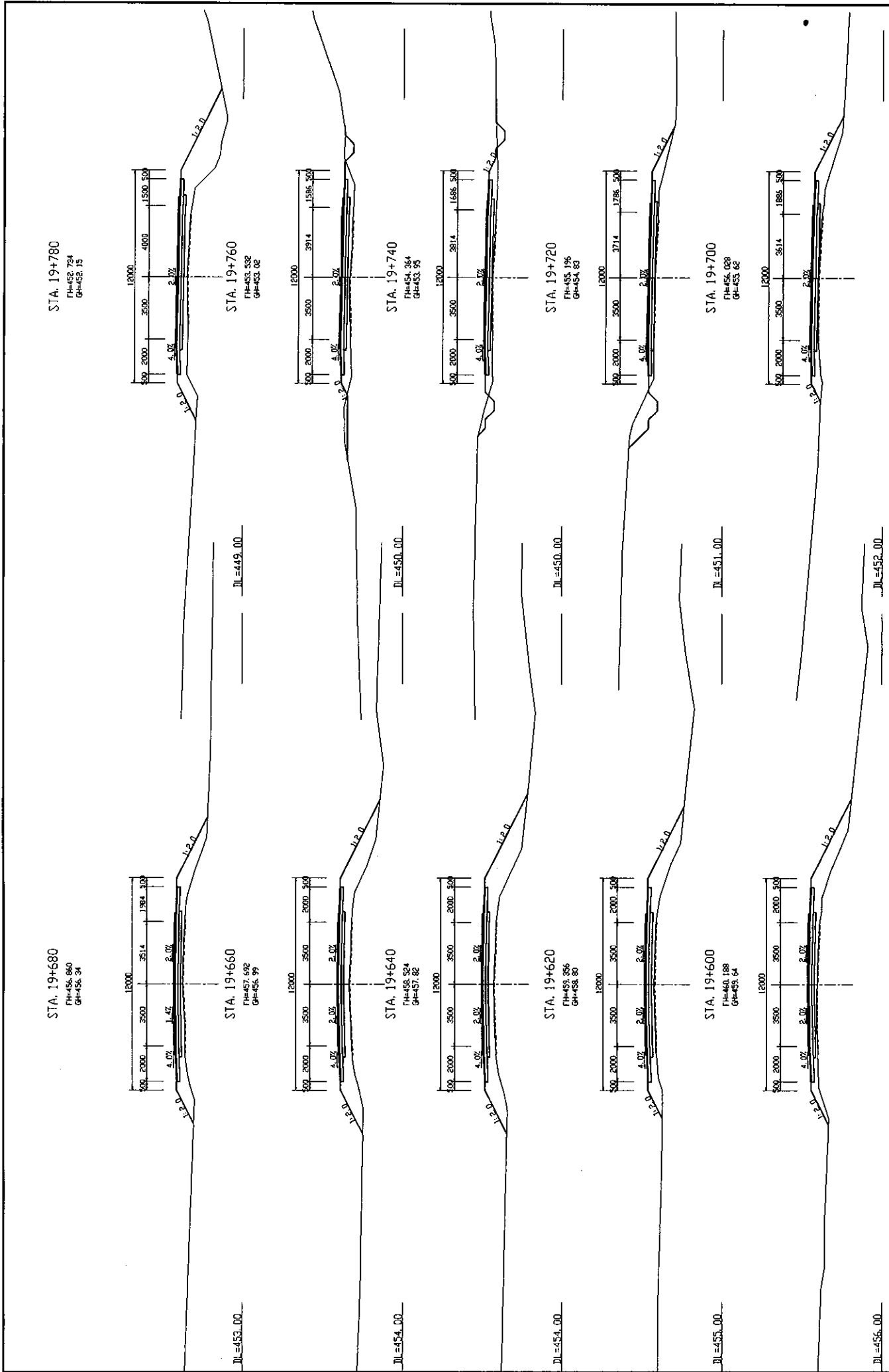
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 19+0 - STA. 19+180)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-93
			<b>Rev.:</b>		



<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NINYO PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 19+200 - STA. 19+380)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-94
			<b>REV.</b>		

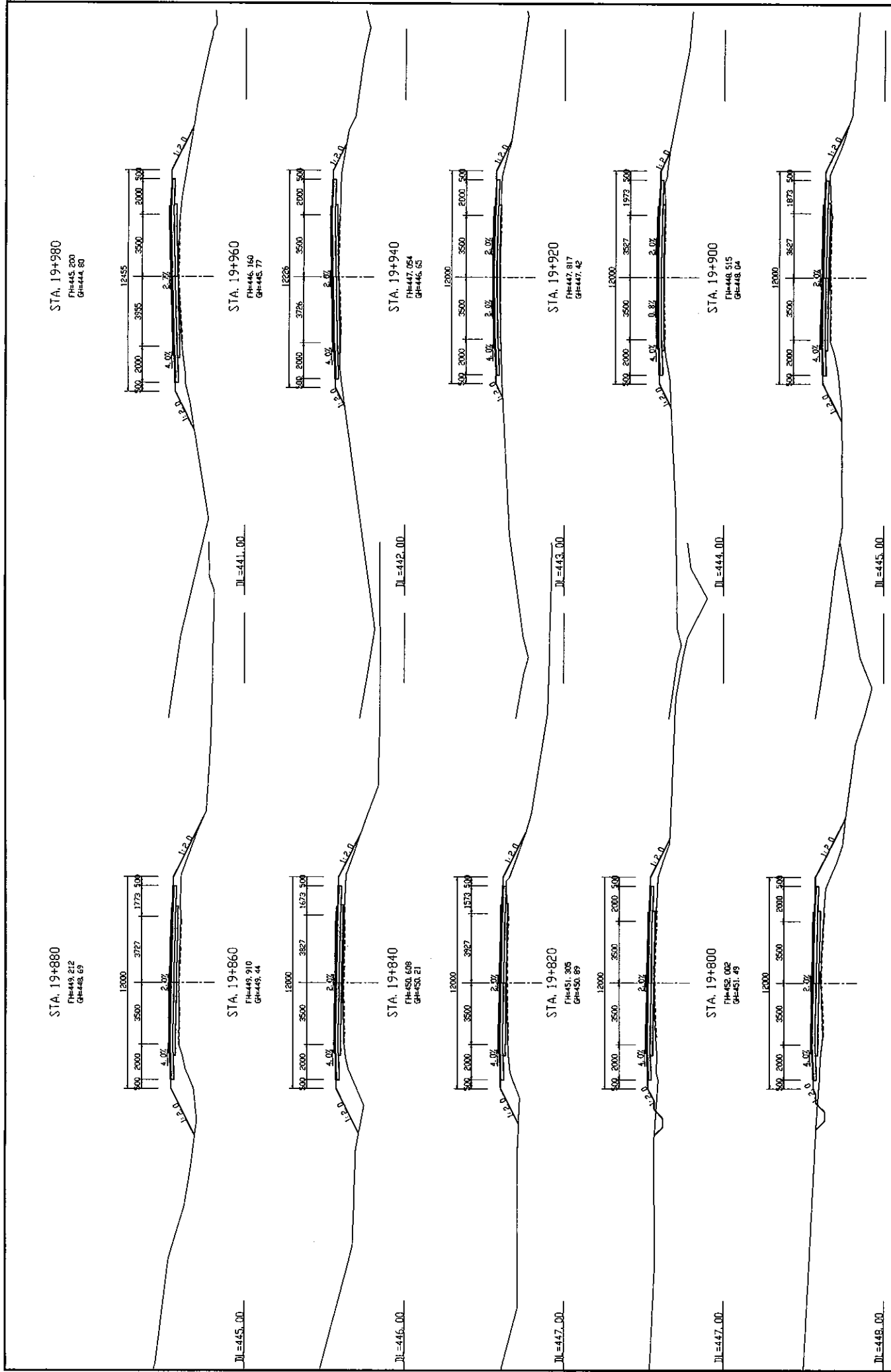


<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 19+400 - STA. 19+580)	<b>DRAWING NO.:</b> <b>CS-95</b>
			<b>SCALE:</b> <b>1:100</b>	<b>REV.</b>

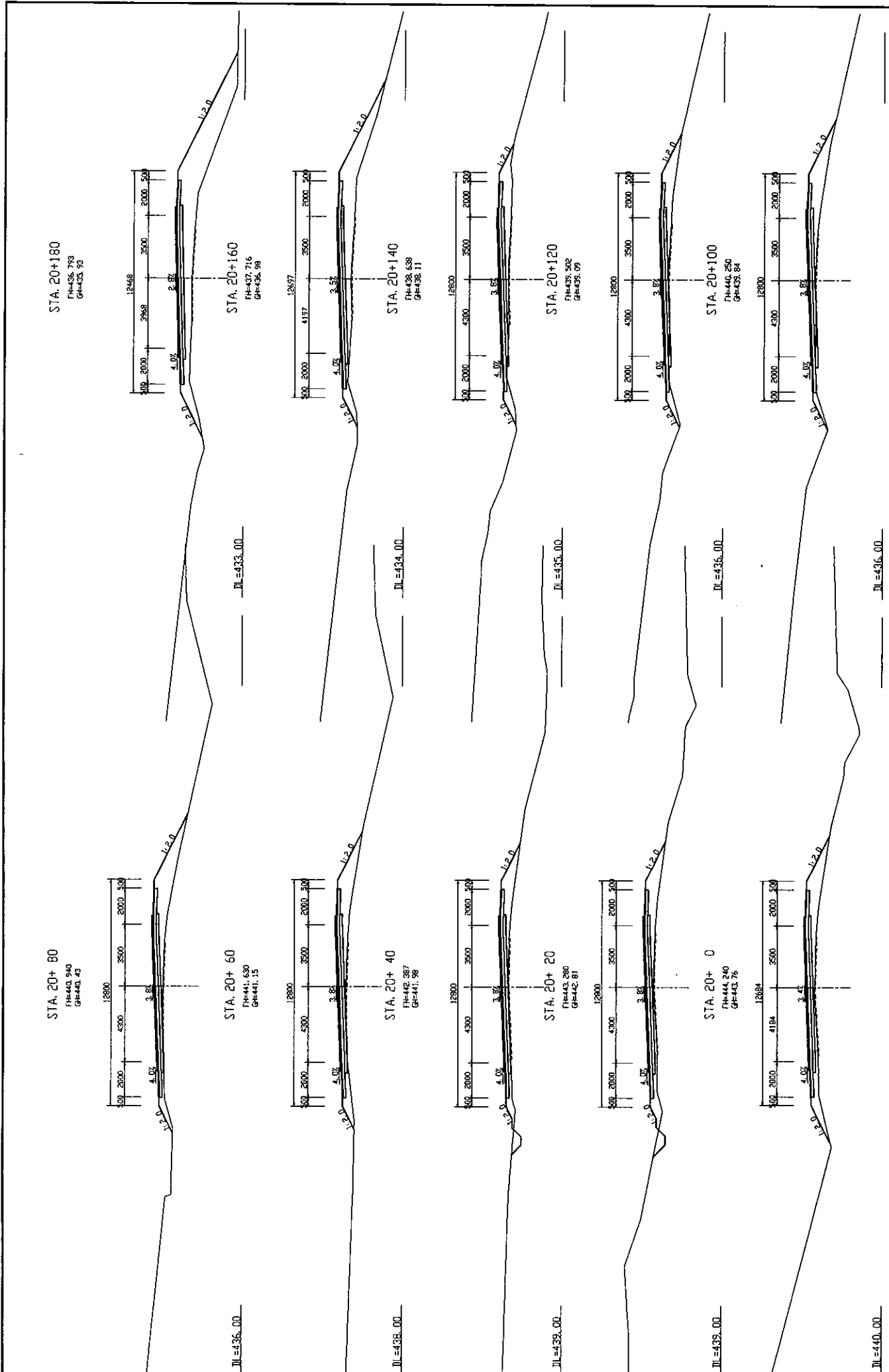


<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR</b> <b>IMPROVEMENT OF DUSTY-NIJINY PYANDZH ROAD</b> <b>IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 19+600 - STA. 19+780)	<b>SCALE:</b> <b>1:100</b>	<b>DRAWING NO.:</b> <b>CS-96</b>
			<b>REV.:</b>		

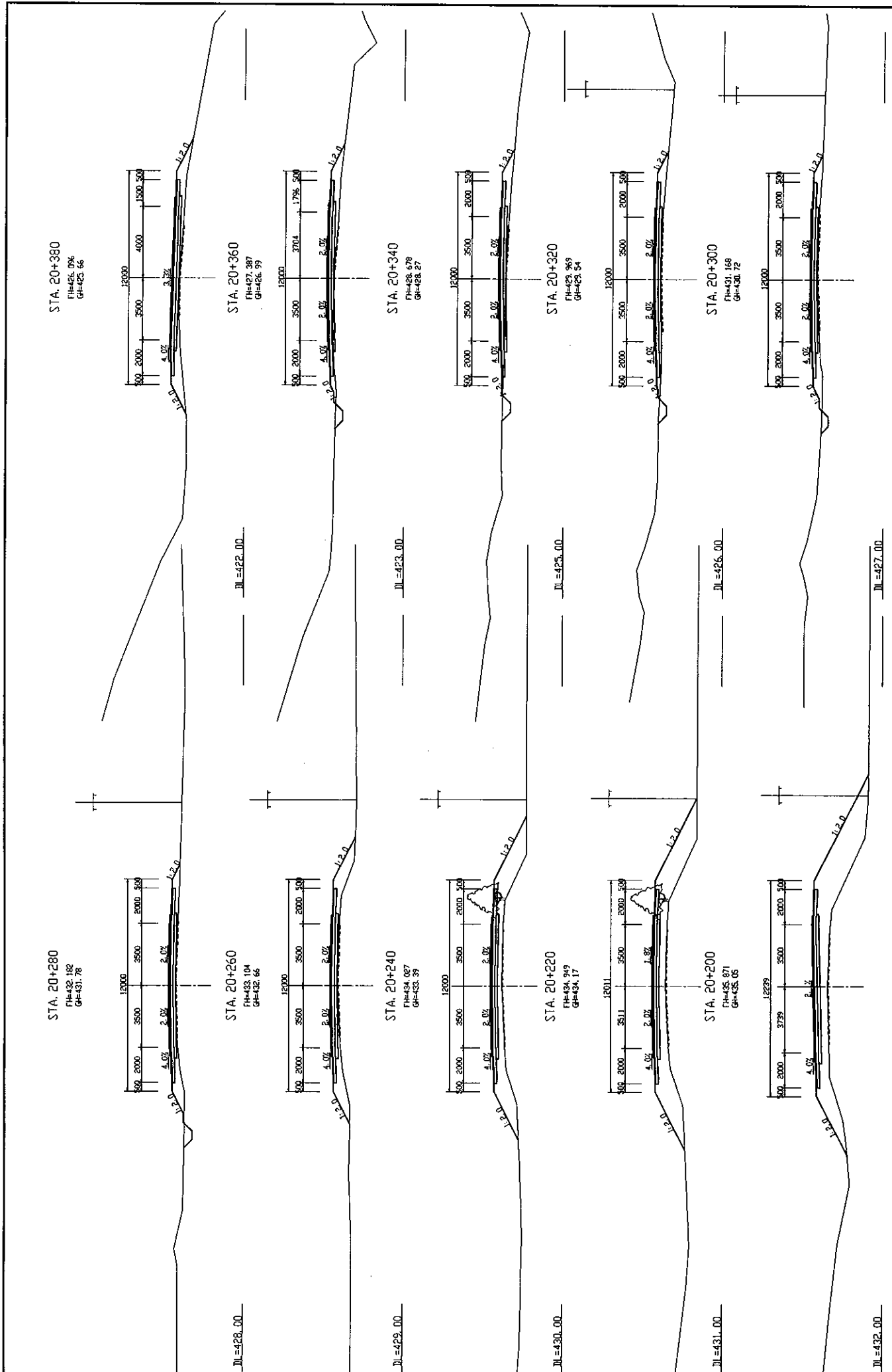




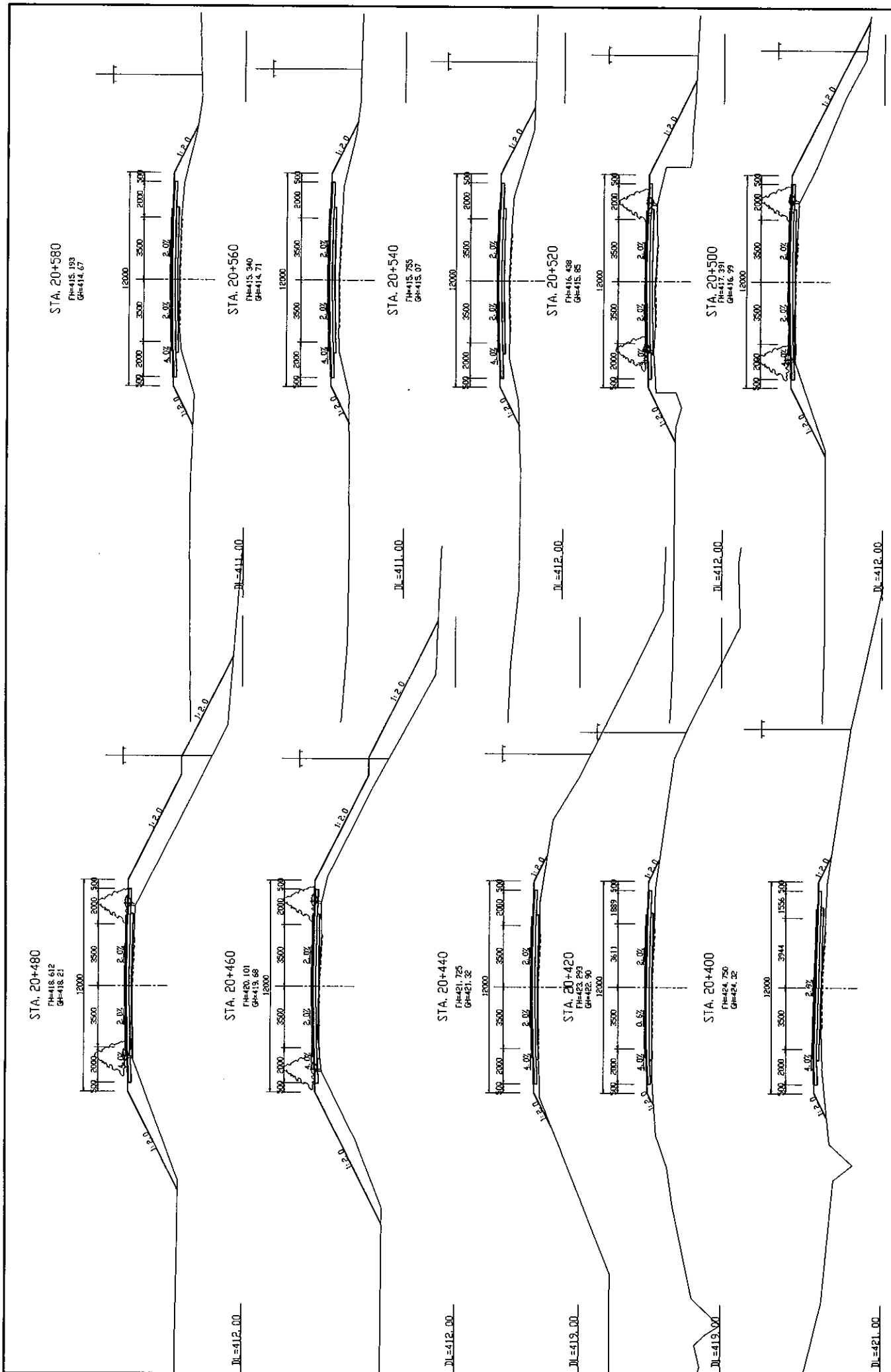
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 19+800 - STA. 19+980)	<b>DRAWING No.:</b> <b>CS-97</b>
			<b>SCALE:</b> <b>1:100</b>	<b>REV.</b>



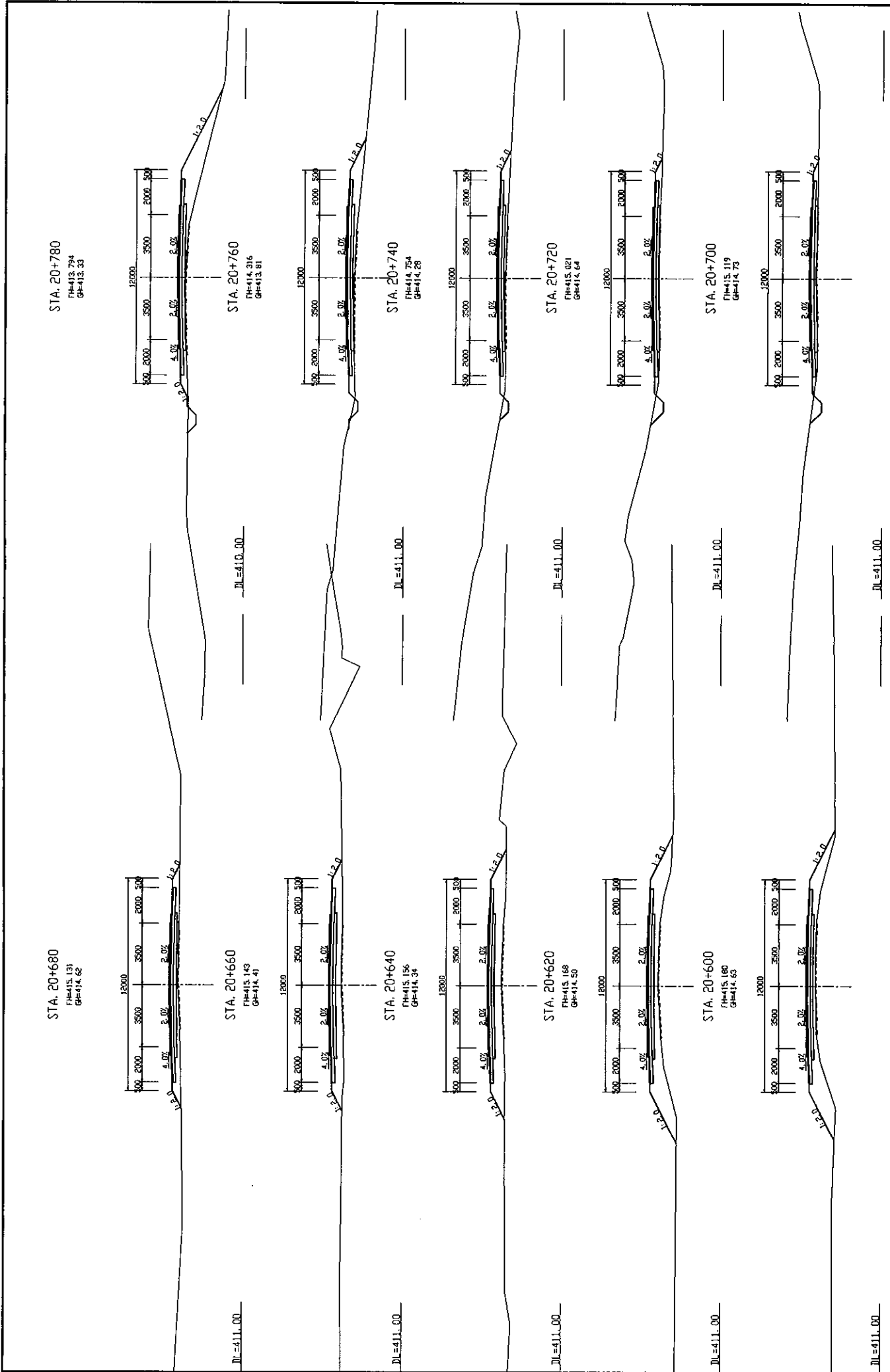
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 20+0 - STA. 20+180)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-98
			<b>RV:</b>		



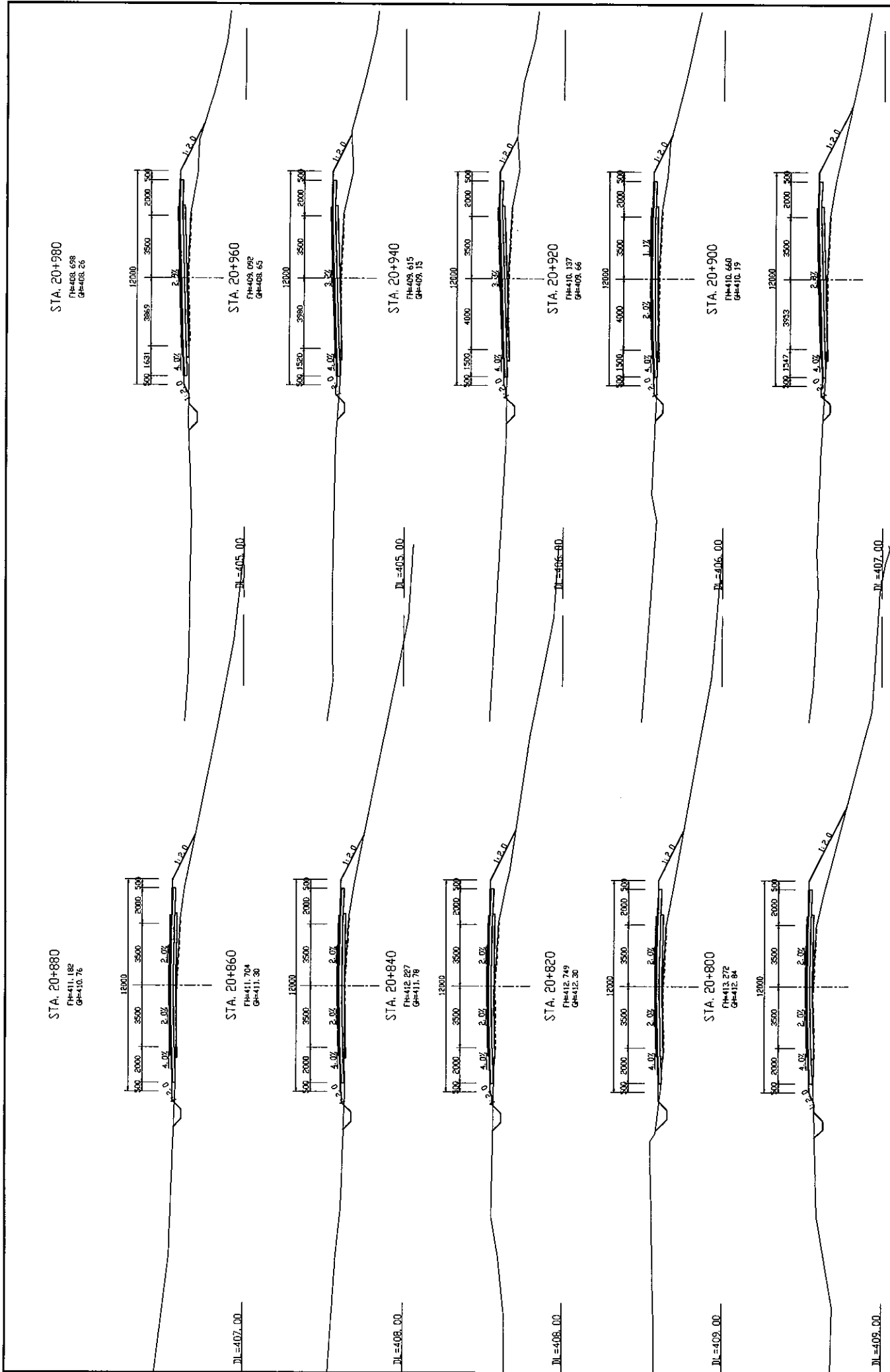
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	BASIC BEGIN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	TITLE: <b>CROSS SECTIONS OF ROAD</b> (STA. 20+200 - STA. 20+380)	SCALE: <b>1:100</b>	DRAWING NO: <b>CS-99</b>
			REV.		



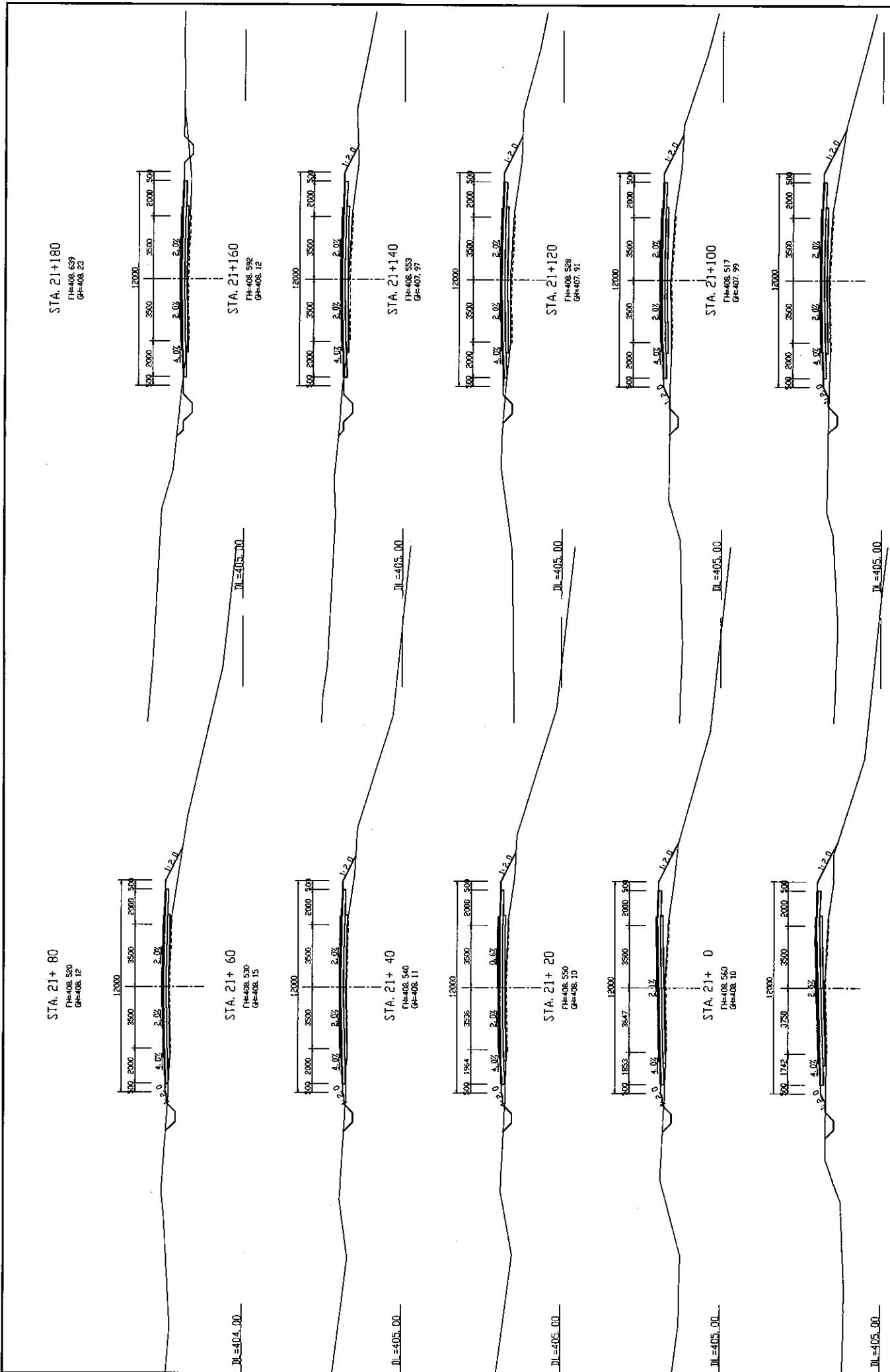
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DEGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	DRAWING No:
			CROSS SECTIONS OF ROAD (STA. 20+400 - STA. 20+580)	CS-100
			SCALE:	Rv:
			1:100	



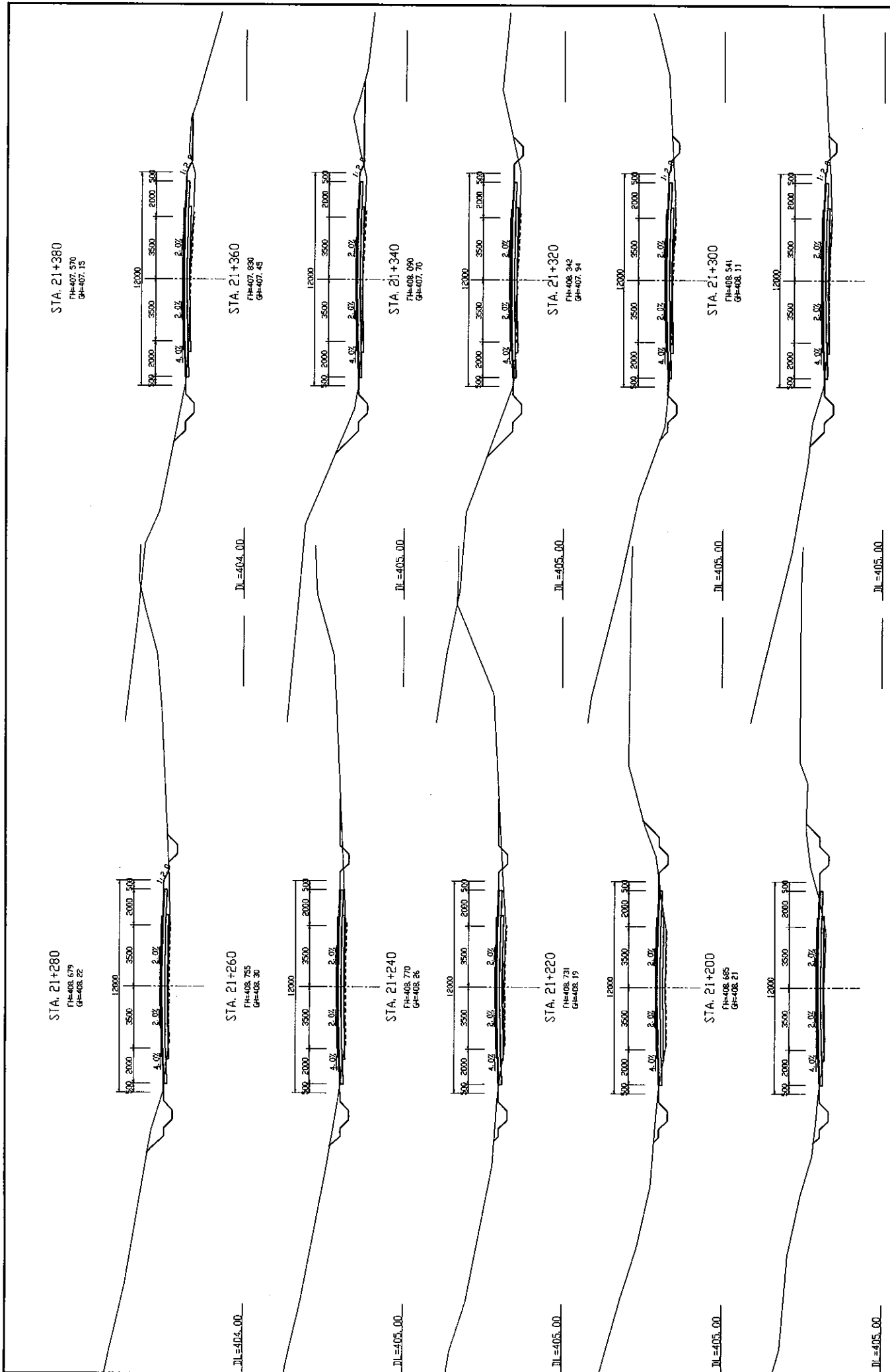
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 20+600 - STA. 20+780)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-101
			<b>REV.:</b>		



<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 20+800 - STA. 20+980)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-102
			<b>Rev:</b>		

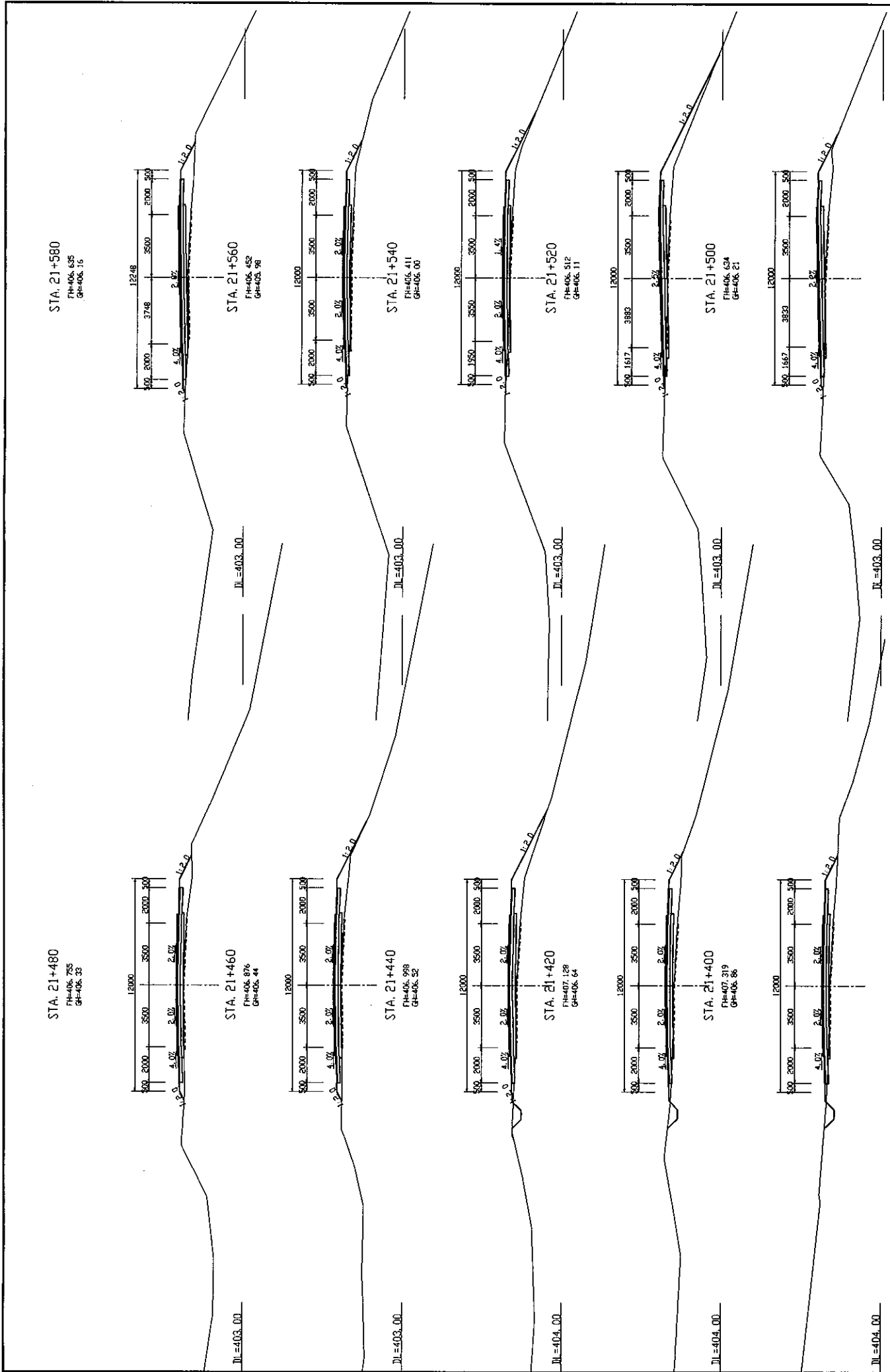


<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NDINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 21+0 - STA. 21+180)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-103
			<b>Rev:</b>		

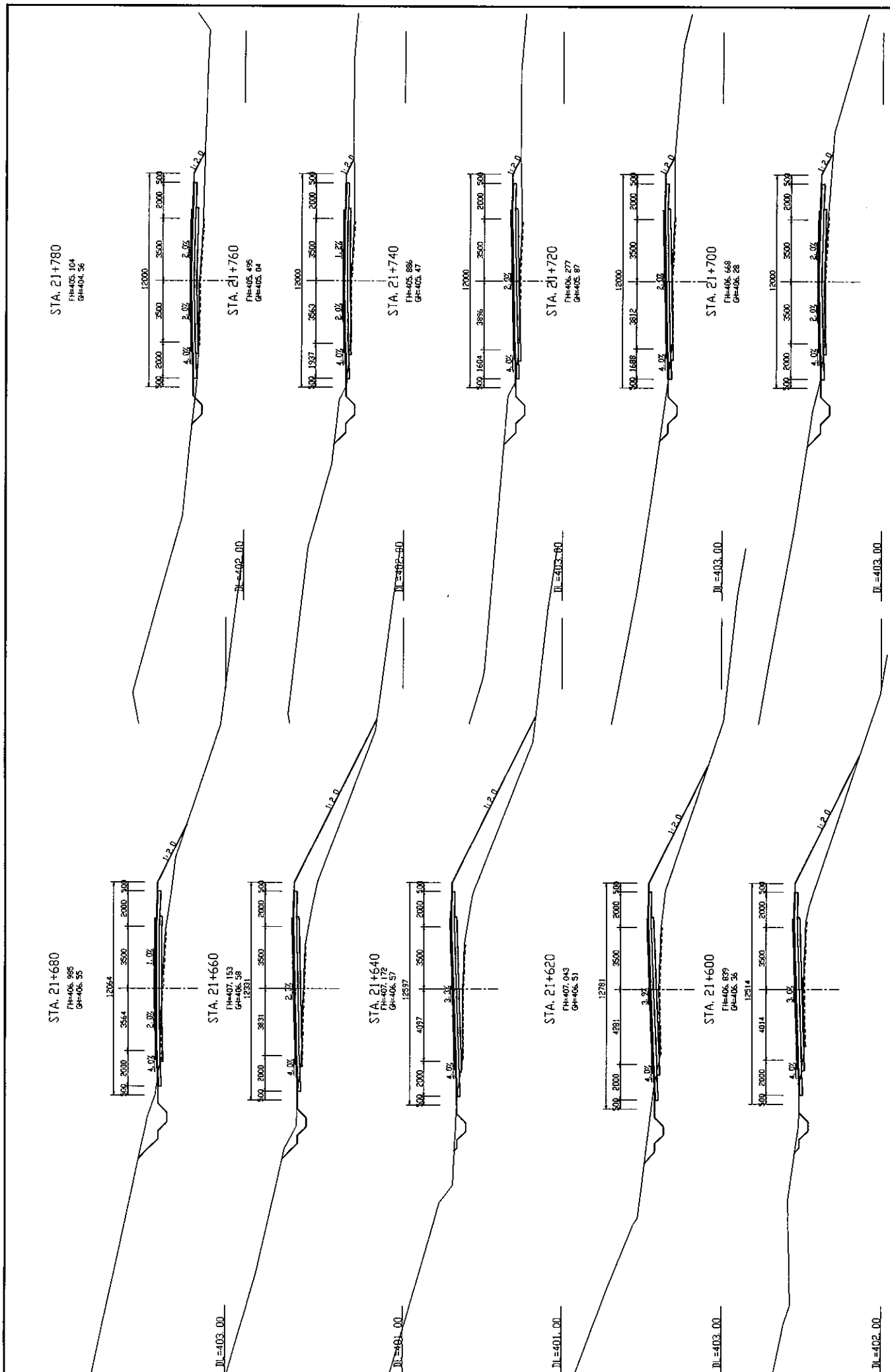


<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 21+200 - STA. 21+380)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-104	<b>Rv.:</b>

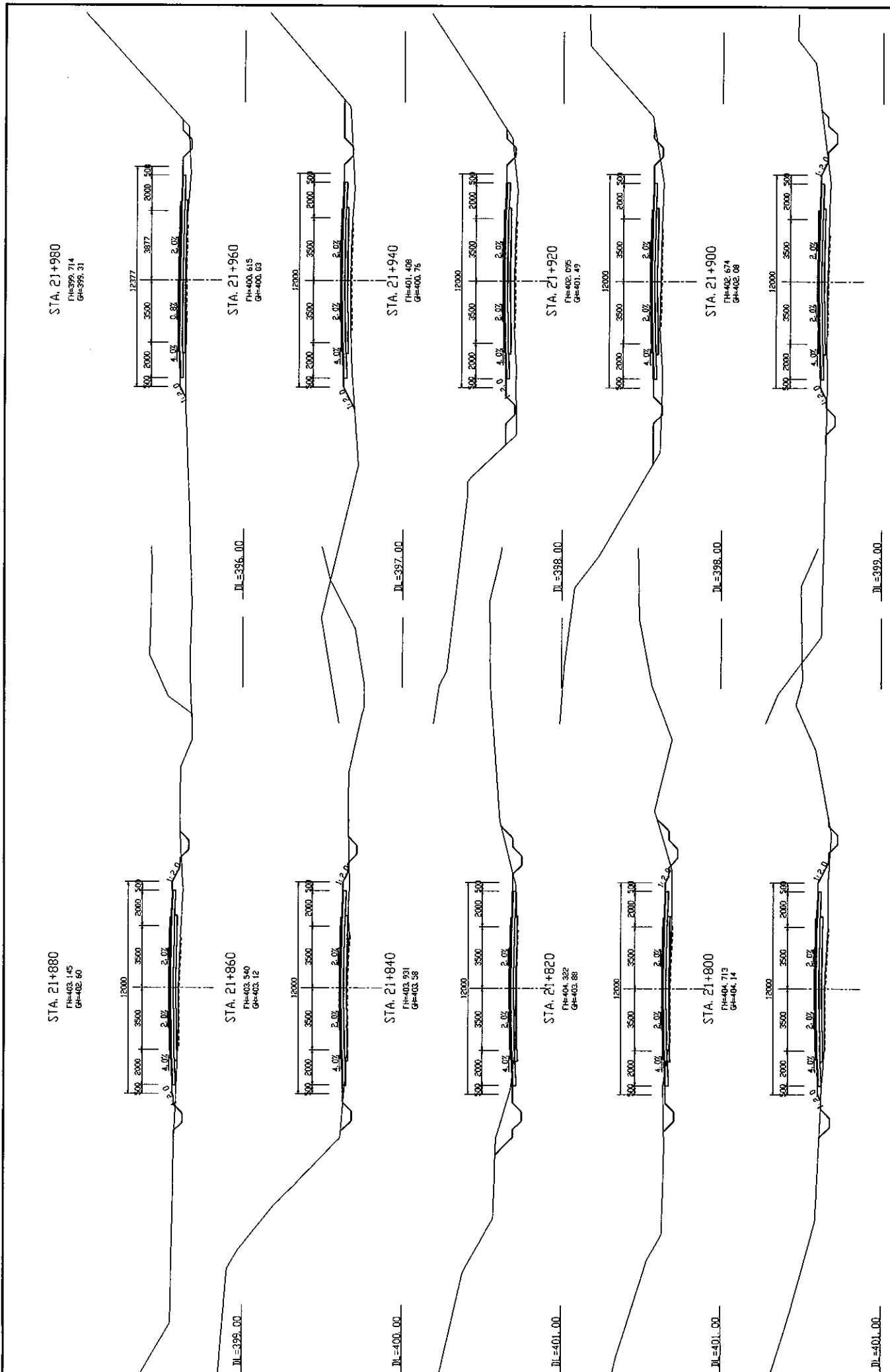




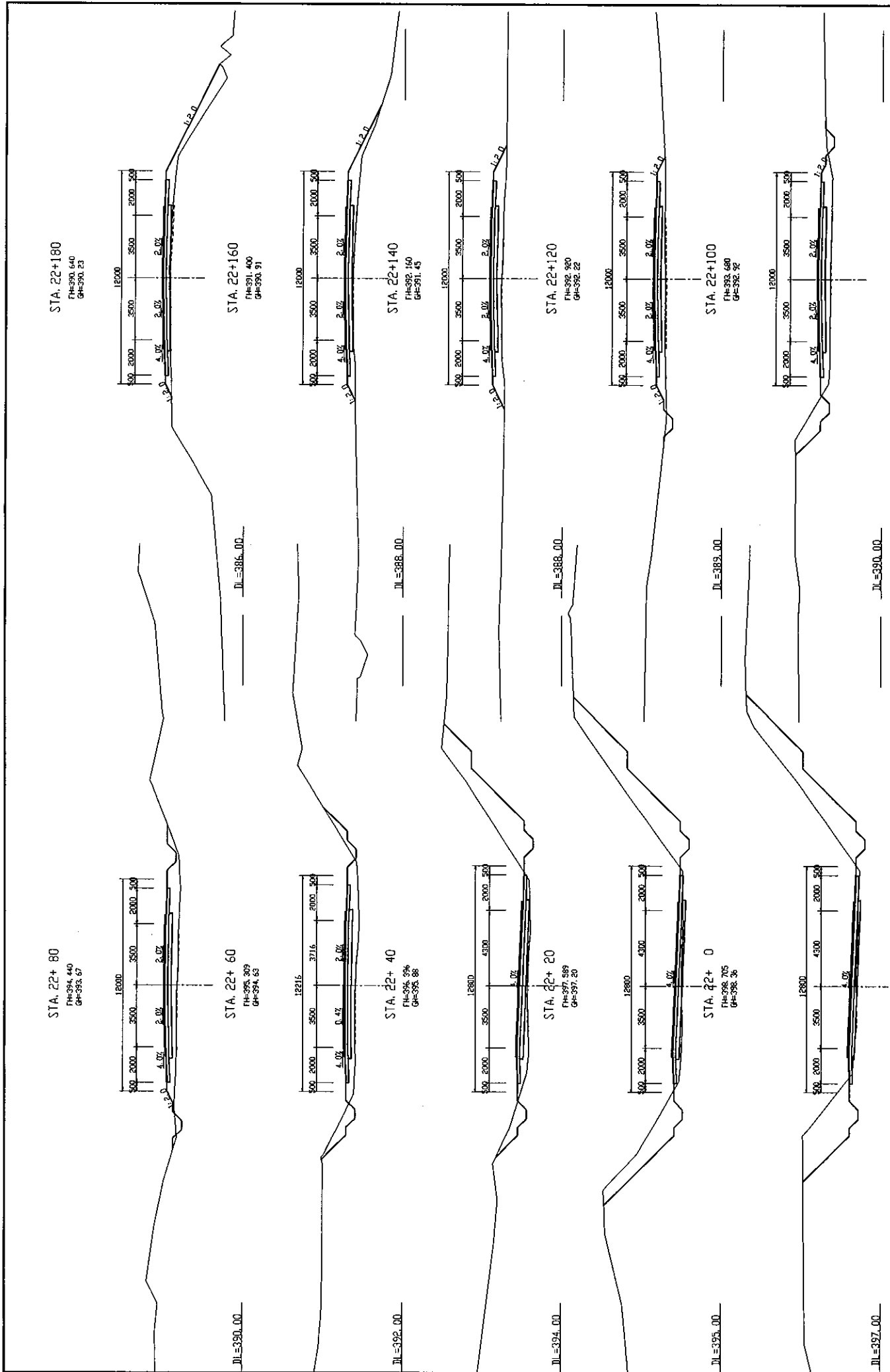
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 21+400 - STA. 21+580)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-105
			<b>REV.:</b>		



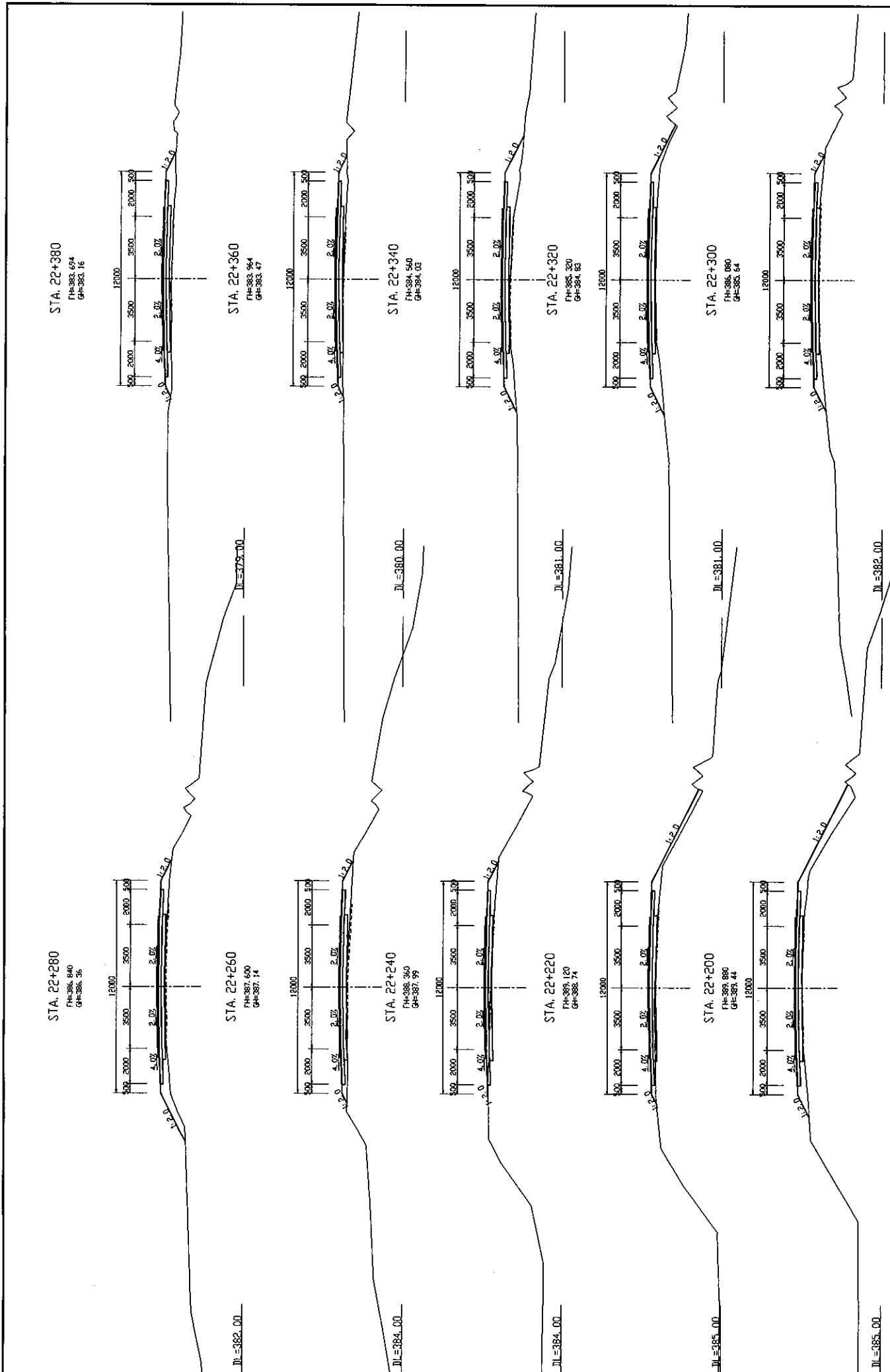
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR</b> <b>IMPROVEMENT OF DUSTY-NINNY PYANDZH ROAD</b> <b>IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 21+600 - STA. 21+780)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-106
			<b>REV.:</b>		



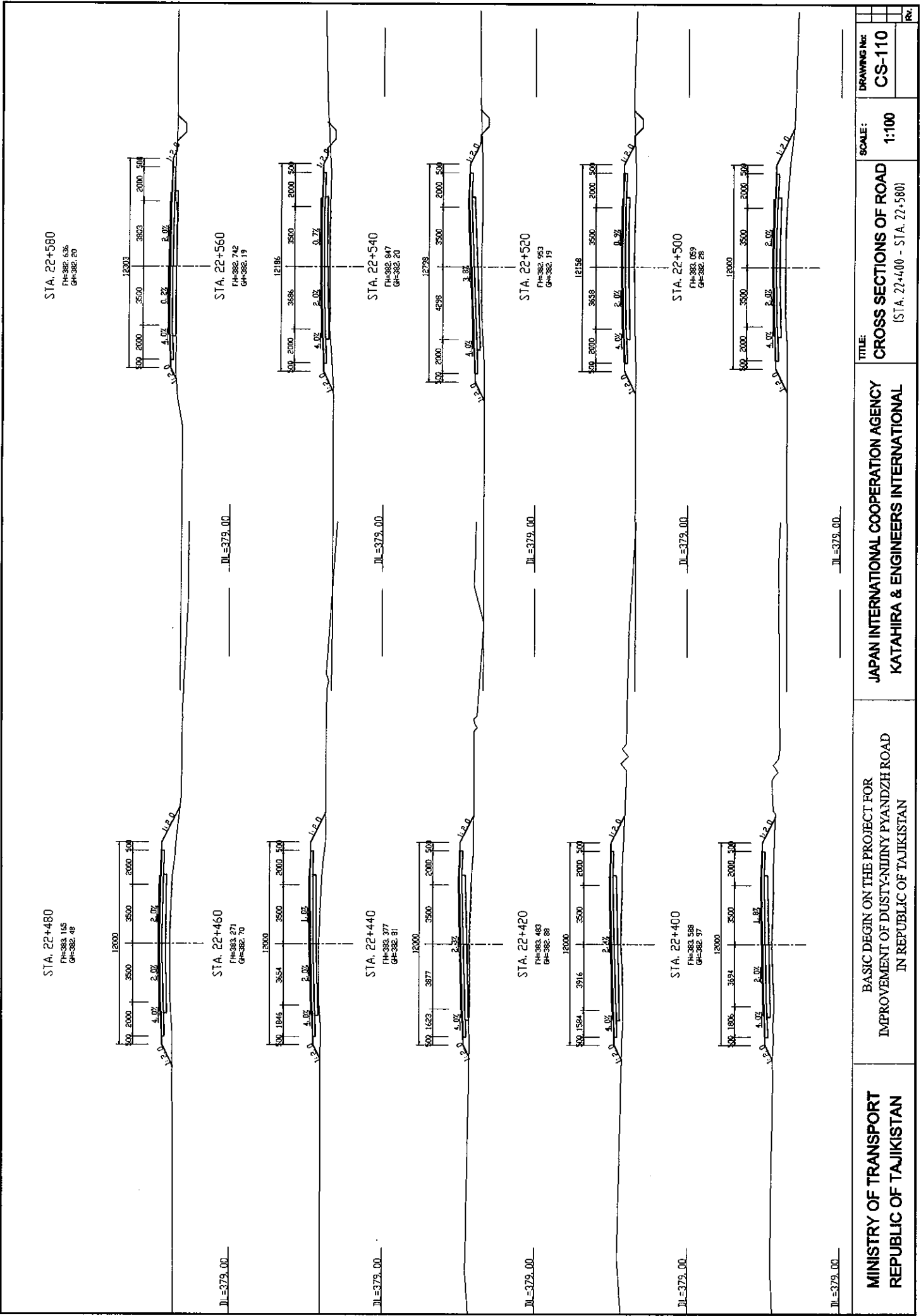
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NDINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 21+800 - STA. 21+980)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-107
			<b>REV:</b>		



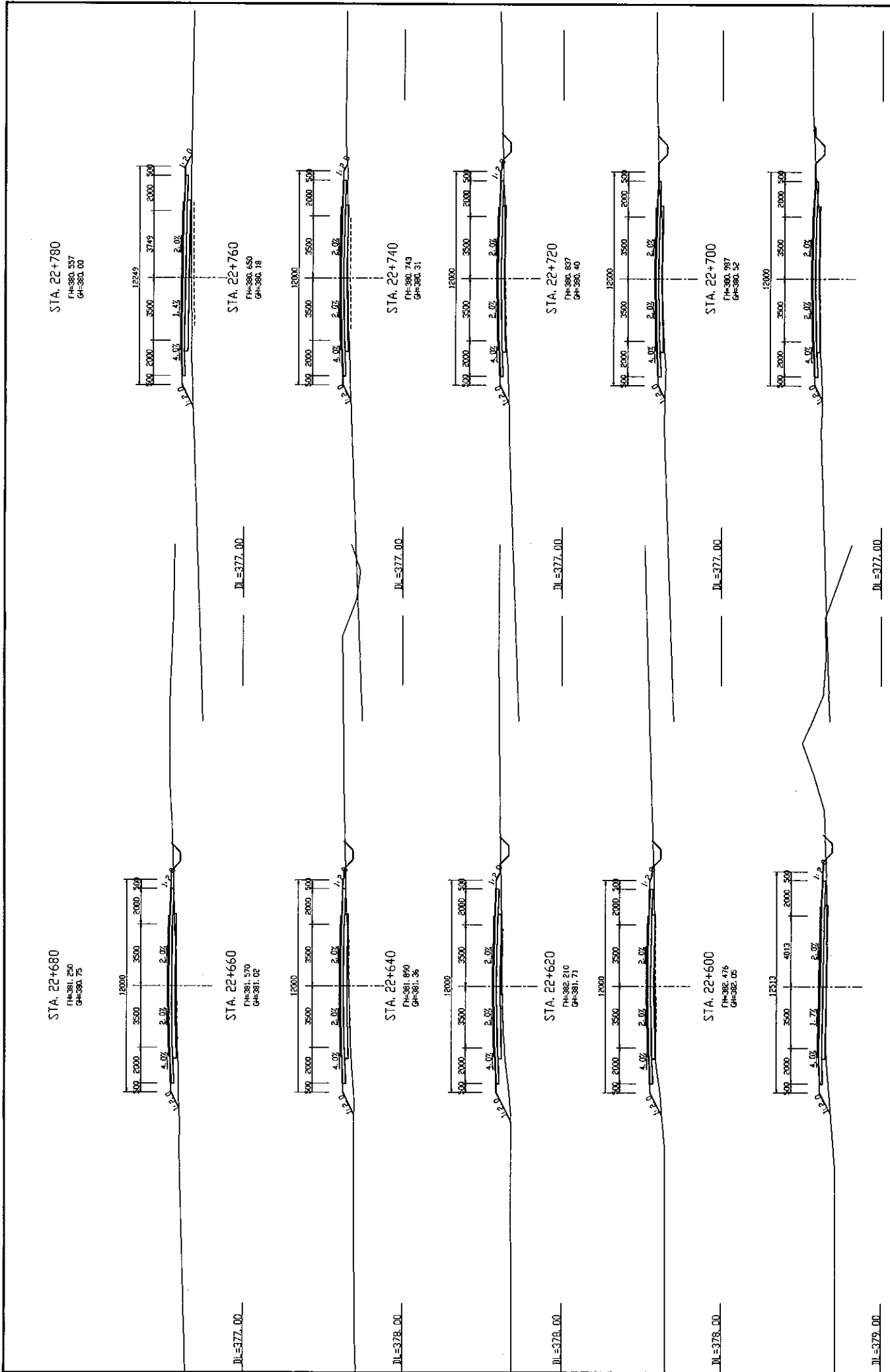
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 22+0 - STA. 22+180)	<b>DRAWING NO.:</b> <b>CS-108</b>
			<b>SCALE:</b> <b>1:100</b>	<b>REV.:</b>



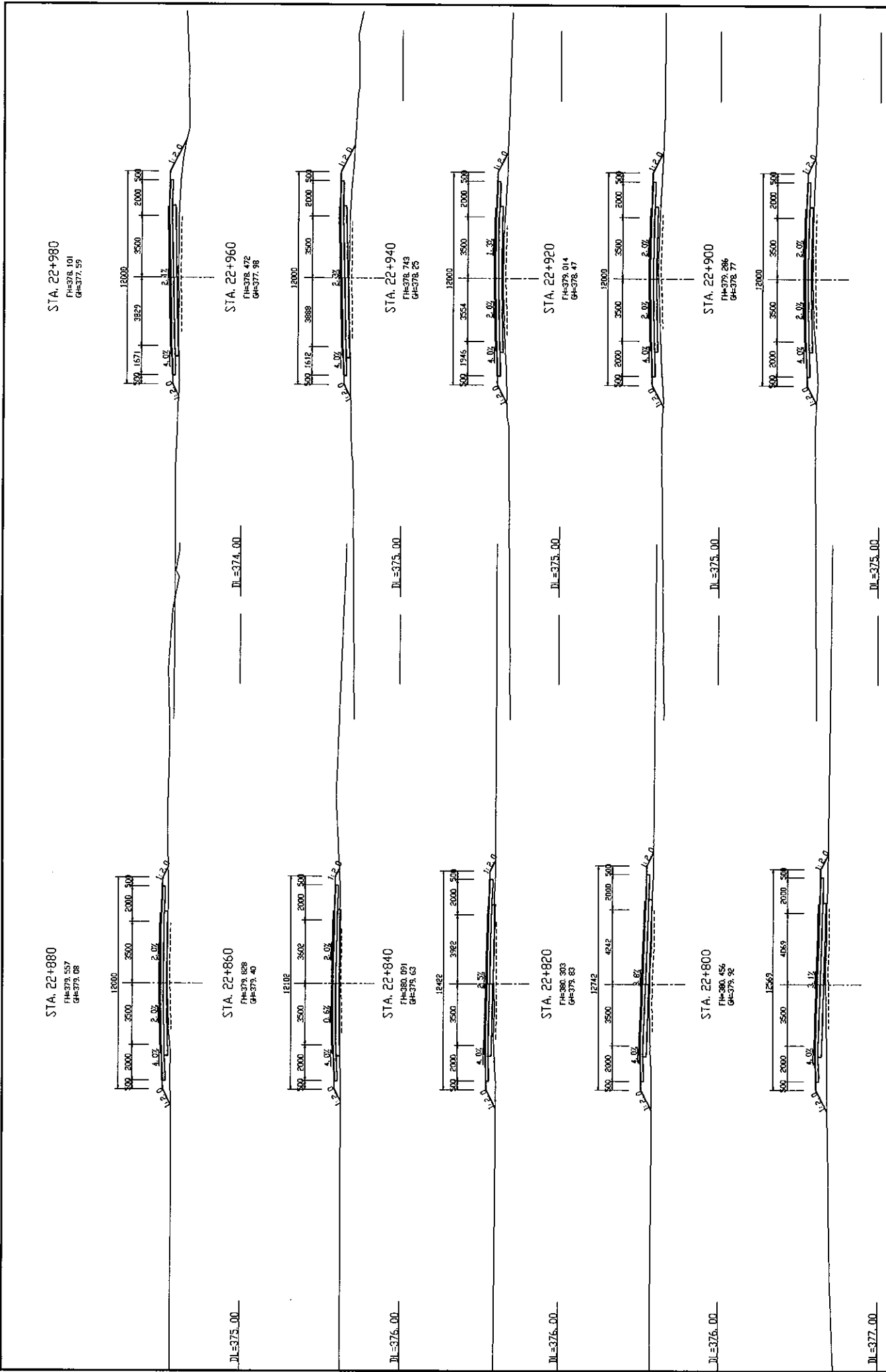
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC BEGIN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 22+200 - STA. 22+380)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-109
			<b>Rev.:</b>		



<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR</b> <b>IMPROVEMENT OF DUSTY-NDINY PYANDZH ROAD</b> <b>IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 22+400 - STA. 22+580)	<b>SCALE:</b> 1:100	<b>DRAWING NO:</b> CS-110
			<b>NO.</b>		

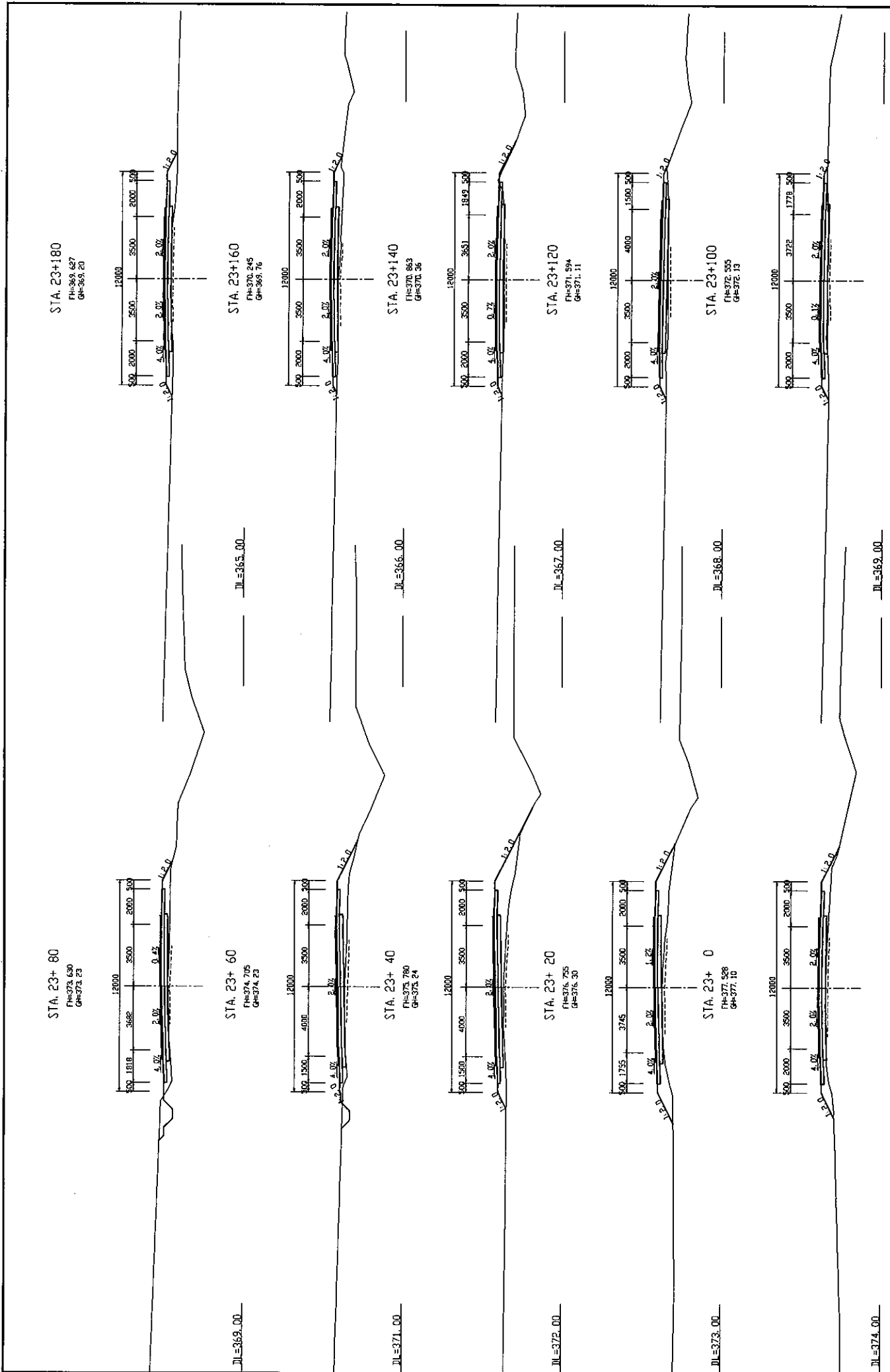


<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NDINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 22+600 - STA. 22+780)	<b>SCALE:</b> 1:100	<b>DRAWING No:</b> CS-111
			<b>NO.</b>	<b>REV.</b>	

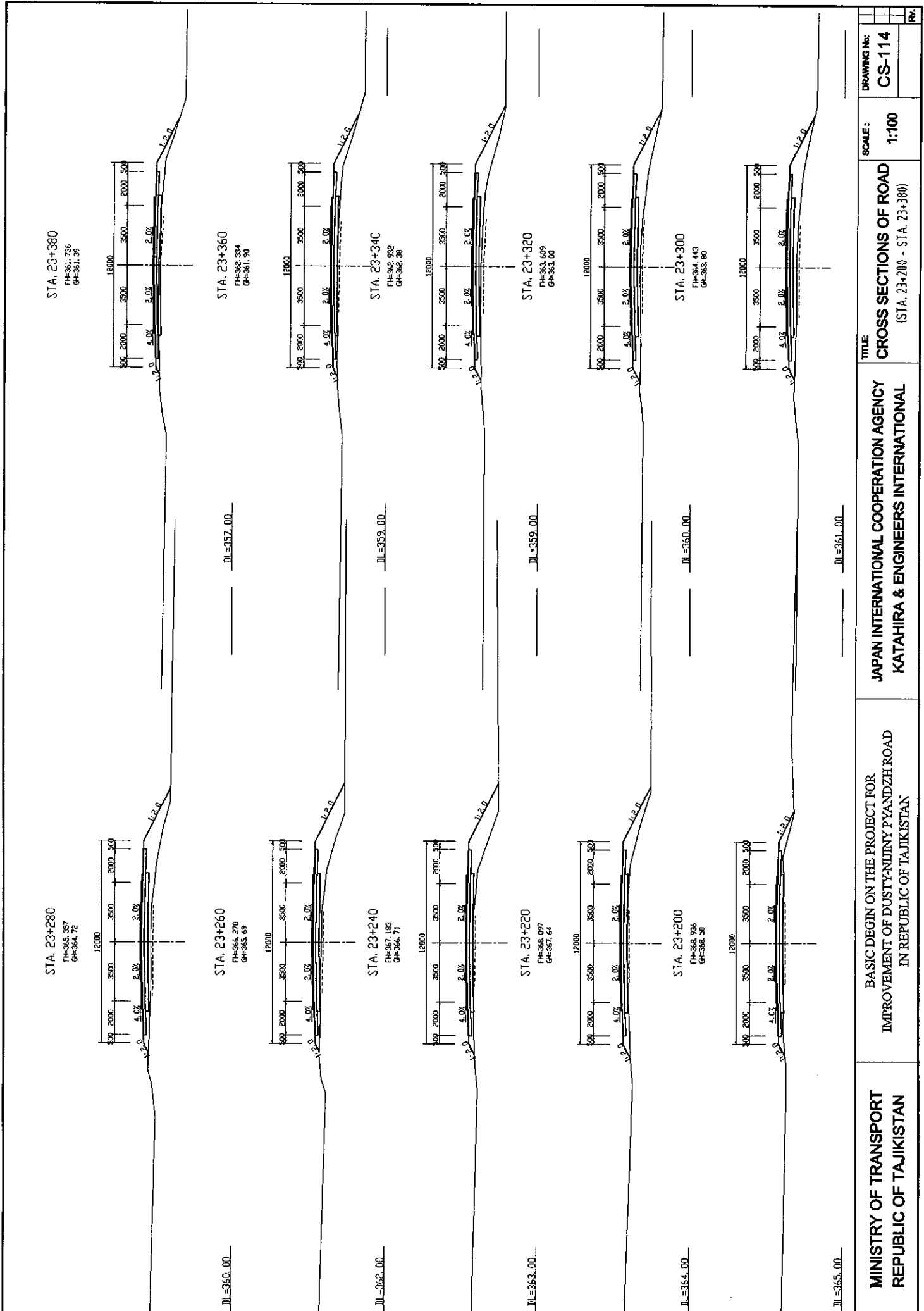


<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTYNIJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	TITLE:	DRAWING NO:
			<b>CROSS SECTIONS OF ROAD (STA. 22+800 - STA. 22+980)</b>	<b>CS-112</b>
		SCALE:		REV.
		<b>1:100</b>		

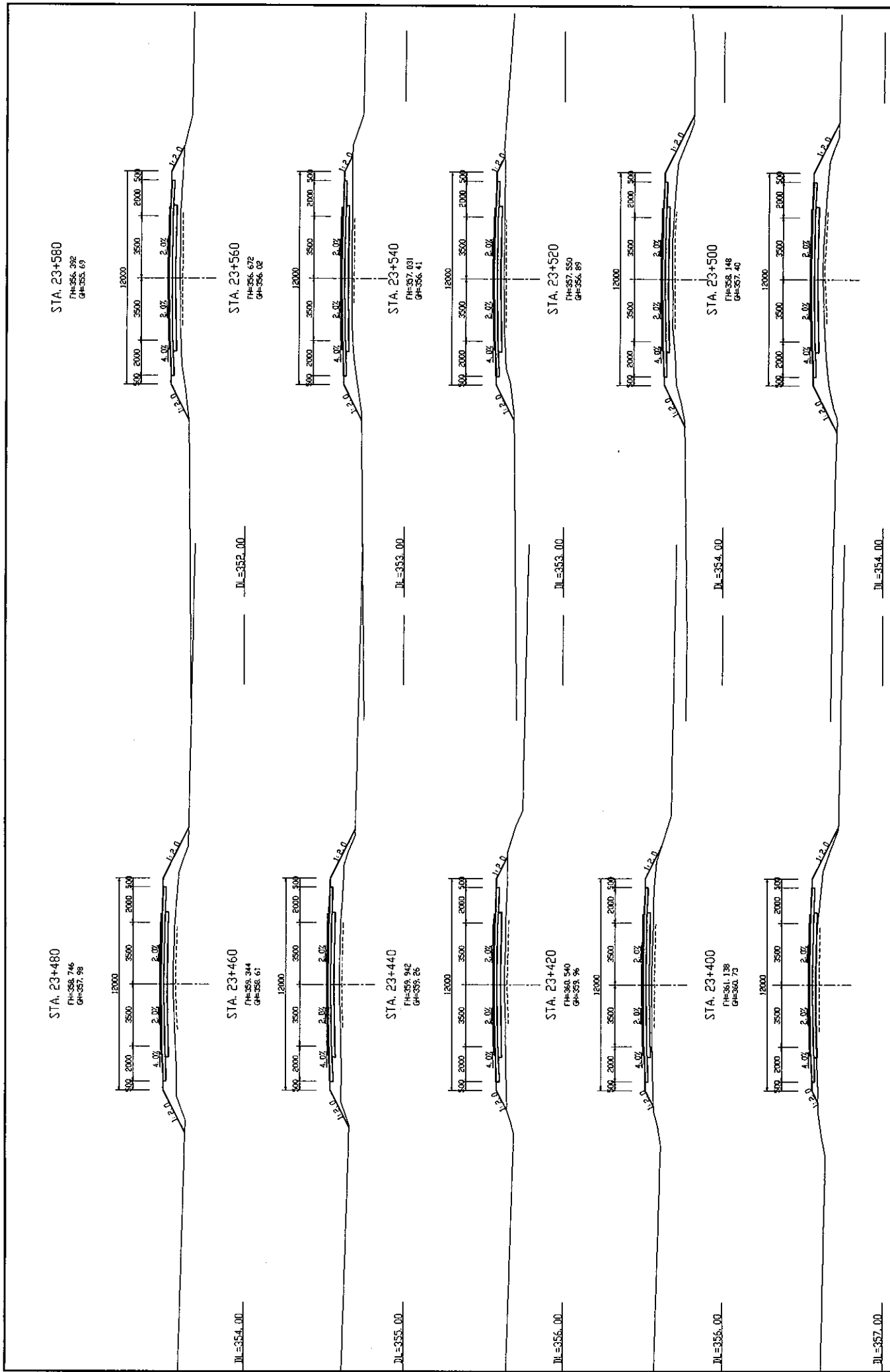




<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 23+0 - STA. 23+180)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-113
			<b>Rev.:</b>		



<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 23+200 - STA. 23+380)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> CS-114	No.
		BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN			

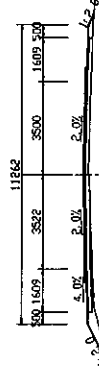


<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR</b> <b>IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD</b> <b>IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> <b>CROSS SECTIONS OF ROAD</b> (STA. 23+400 - STA. 23+580)	<b>SCALE:</b> 1:100	<b>DRAWING No.:</b> <b>CS-115</b>
			<b>Rev.:</b>		

STA. 23+660

FM=355.272  
GM=355.16

**RUN OFF**

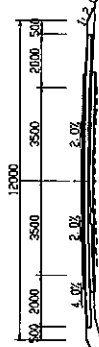


DL=353.00

STA. 23+648.91

FM=355.427  
GM=355.12

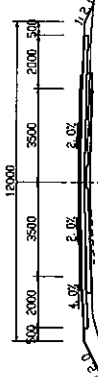
**END POINT**



DL=353.00

STA. 23+640

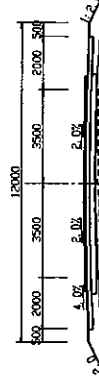
FM=355.832  
GM=355.23



DL=353.00

STA. 23+620

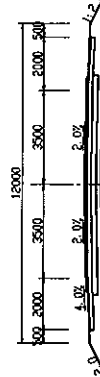
FM=355.832  
GM=355.40



DL=353.00

STA. 23+600

FM=356.112  
GM=355.51



DL=353.00

STA. 23+700

FM=354.726  
GM=354.73

**Meet Existing Ground**

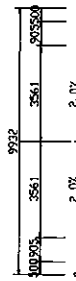


DL=353.00

STA. 23+680

FM=354.996  
GM=354.99

**RUN OFF**



DL=353.00

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DEGIN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

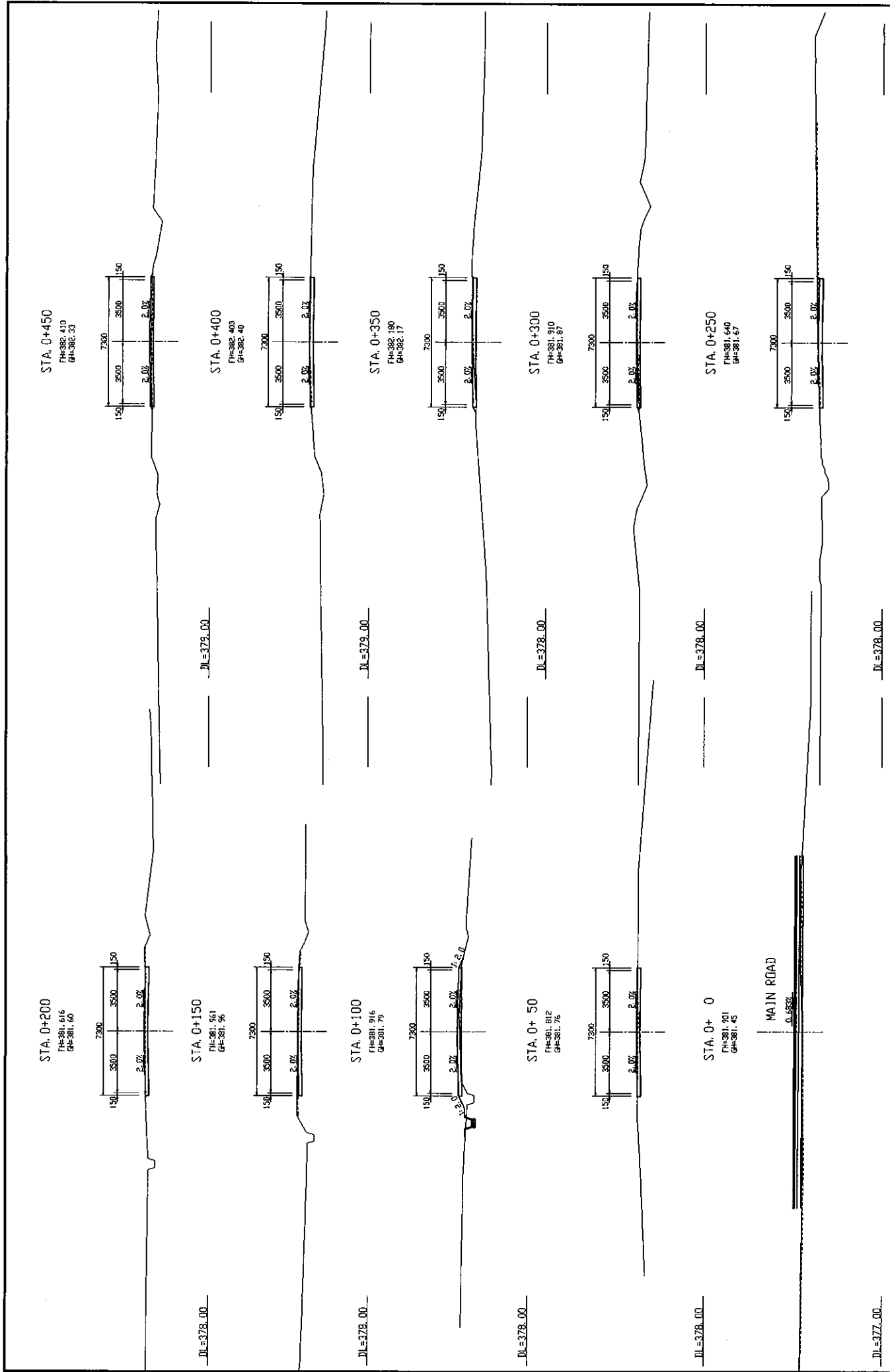
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:  
**CROSS SECTIONS OF ROAD**  
(STA. 23+600 - STA. 23+700)

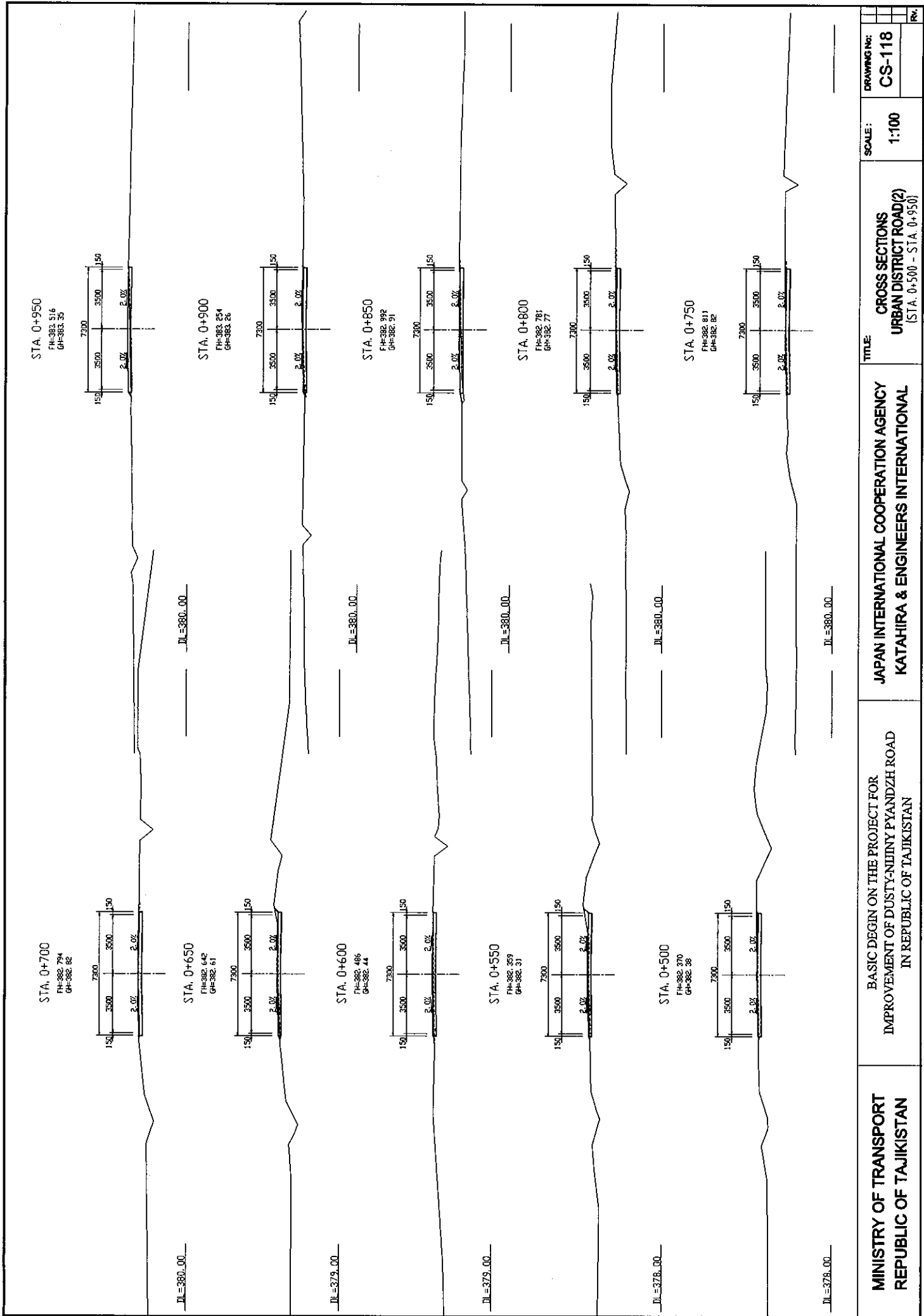
SCALE:  
**1:100**

DRAWING No:  
**CS-116**

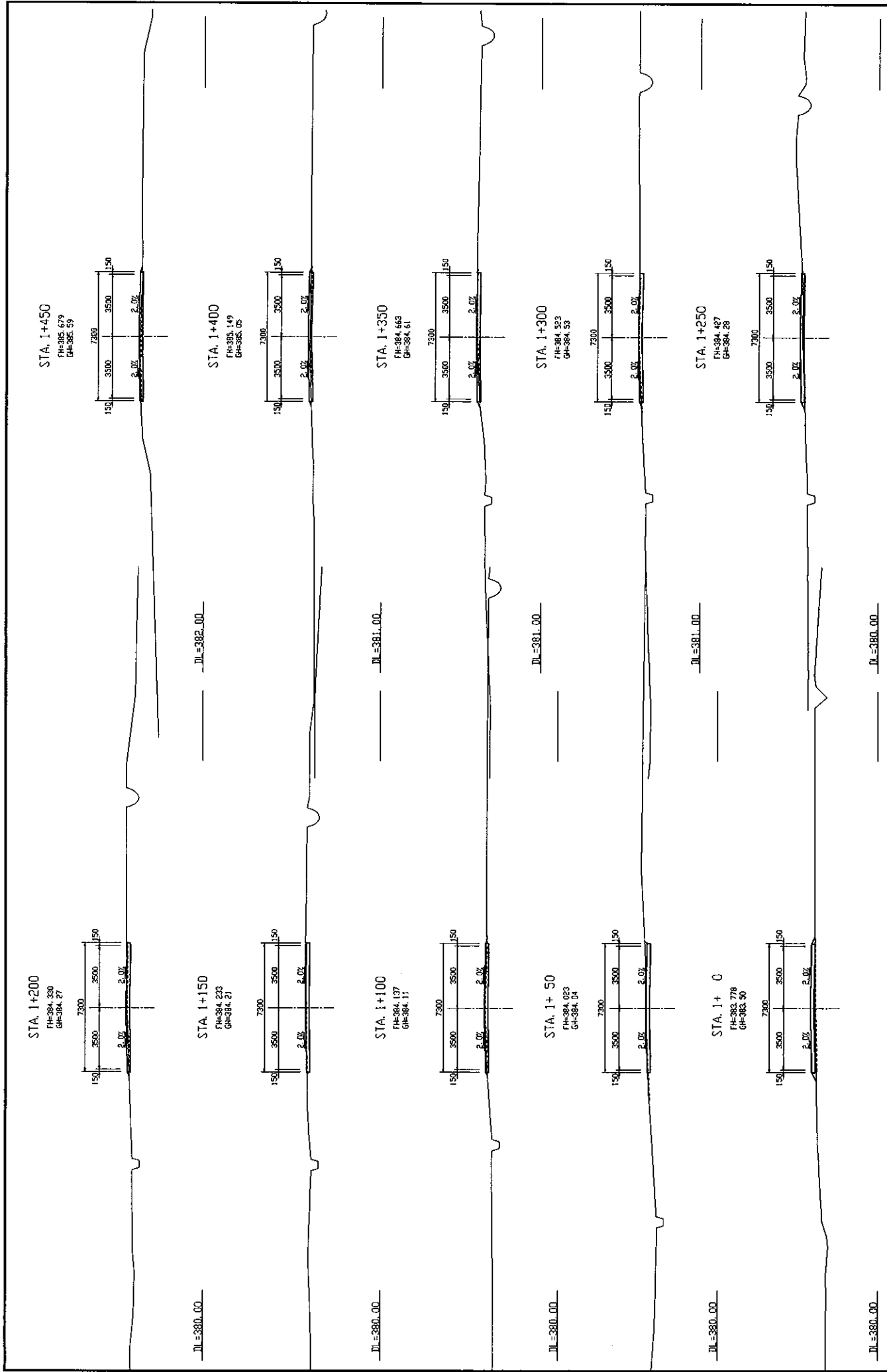
Rev.



<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE: CROSS SECTIONS URBAN DISTRICT ROAD(2) (STA. 0+0 - STA. 0+450)</b>	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-117
				<b>REV.:</b>	



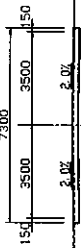
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> CROSS SECTIONS URBAN DISTRICT ROAD(2) (STA. 0+500 - STA. 0+950)	<b>SCALE:</b> 1:100	<b>DRAWING NO.:</b> CS-118
				No.	Rev.



<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE: CROSS SECTIONS URBAN DISTRICT ROAD(2) (STA. 1+0 - STA. 1+450)</b>	SCALE:	DRAWING NO:
				1:100	CS-119

STA. 1+666.35

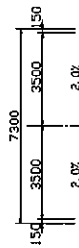
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GH=386.34



DL=384.00

STA. 1+650

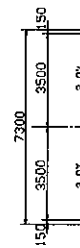
FH=386.500  
GH=386.53



DL=384.00

STA. 1+600

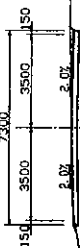
FH=386.469  
GH=386.48



DL=385.00

STA. 1+550

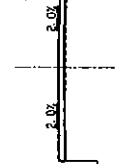
FH=386.438  
GH=386.44



DL=383.00

STA. 1+500

FH=386.206  
GH=386.17



DL=383.00

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NEJINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

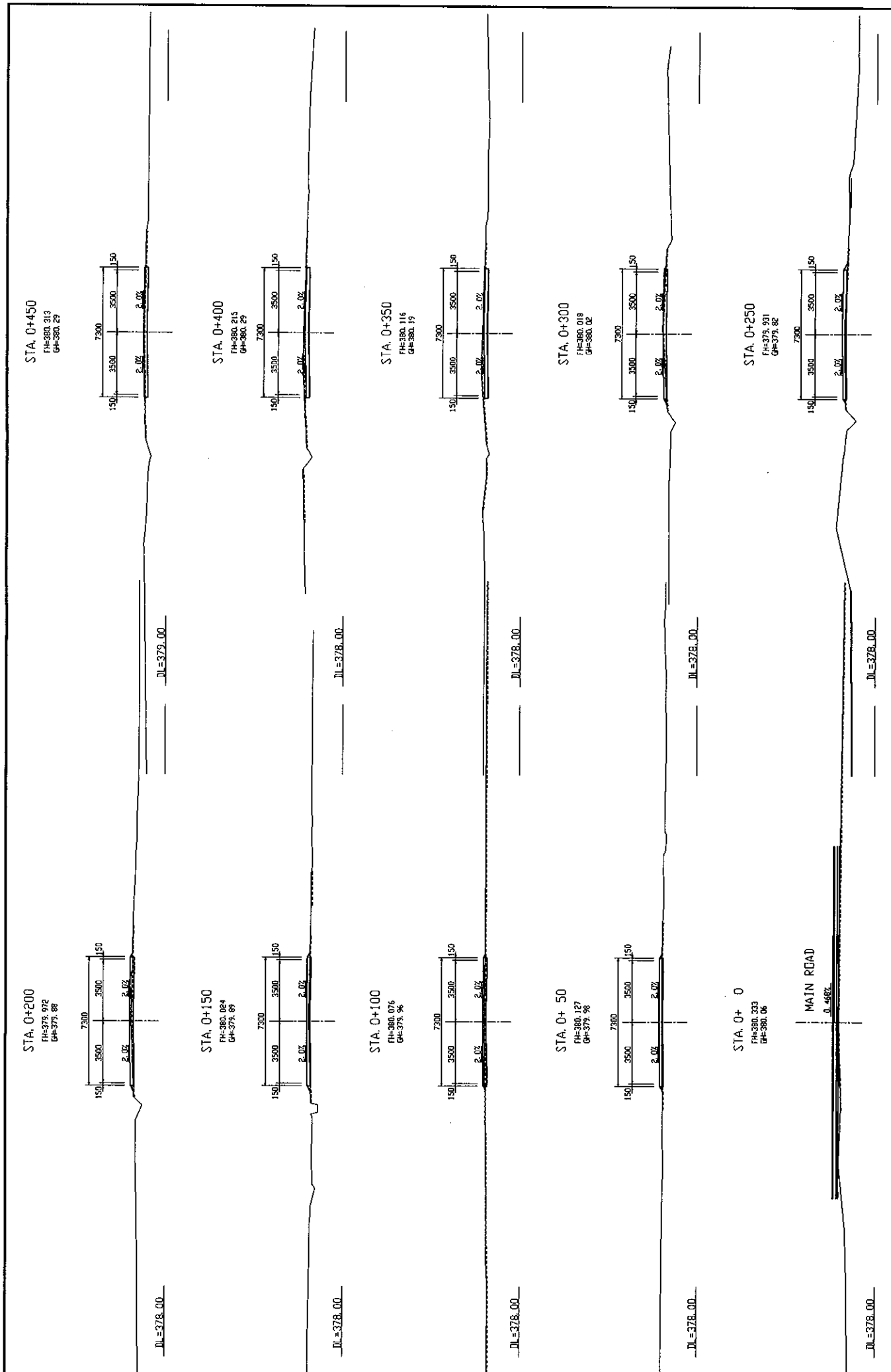
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:  
CROSS SECTIONS  
URBAN DISTRICT ROAD(2)  
(STA. 1+500 - STA. 1+666.35)

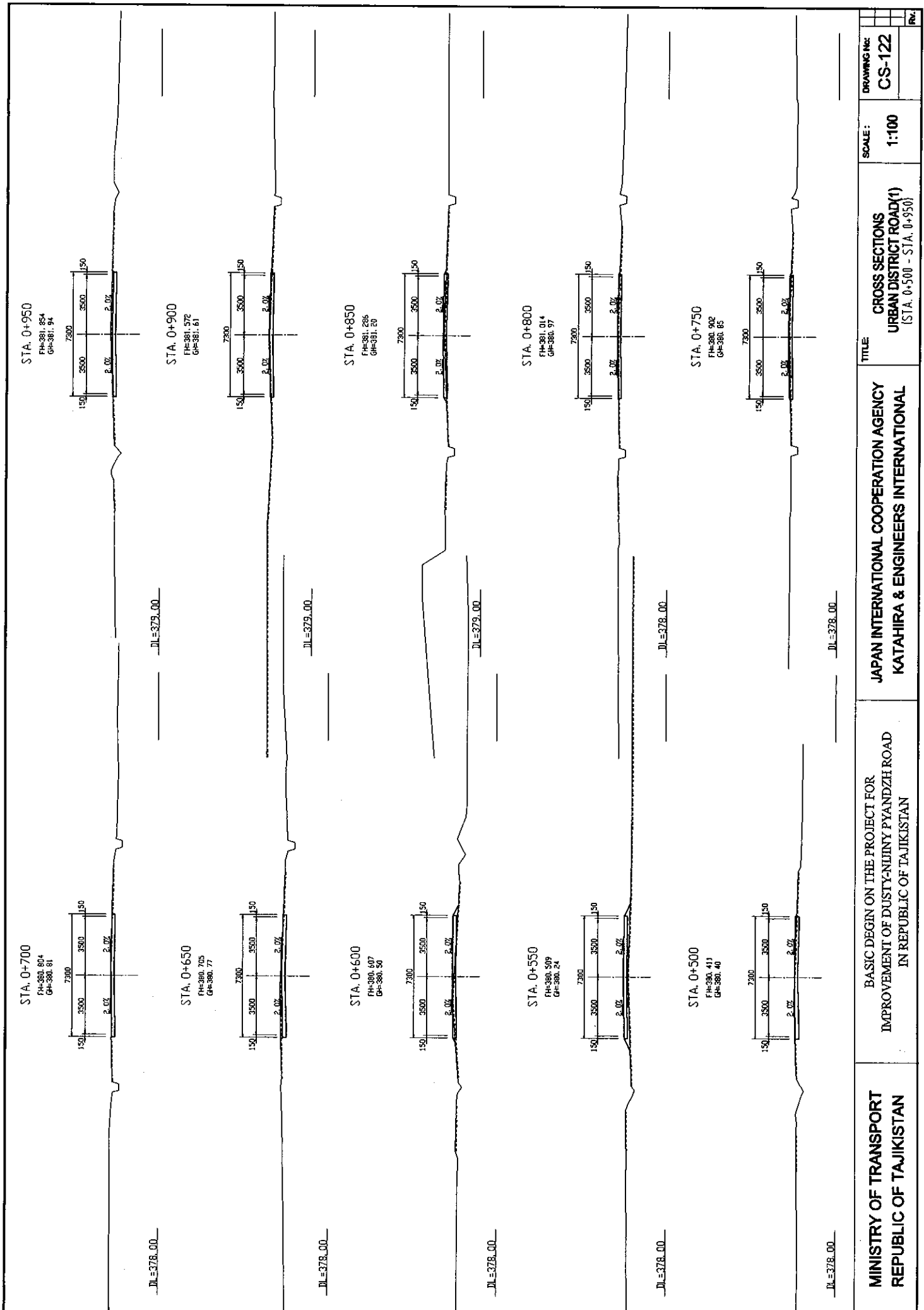
SCALE:  
1:100

DRAWING No:  
CS-120  
REV.

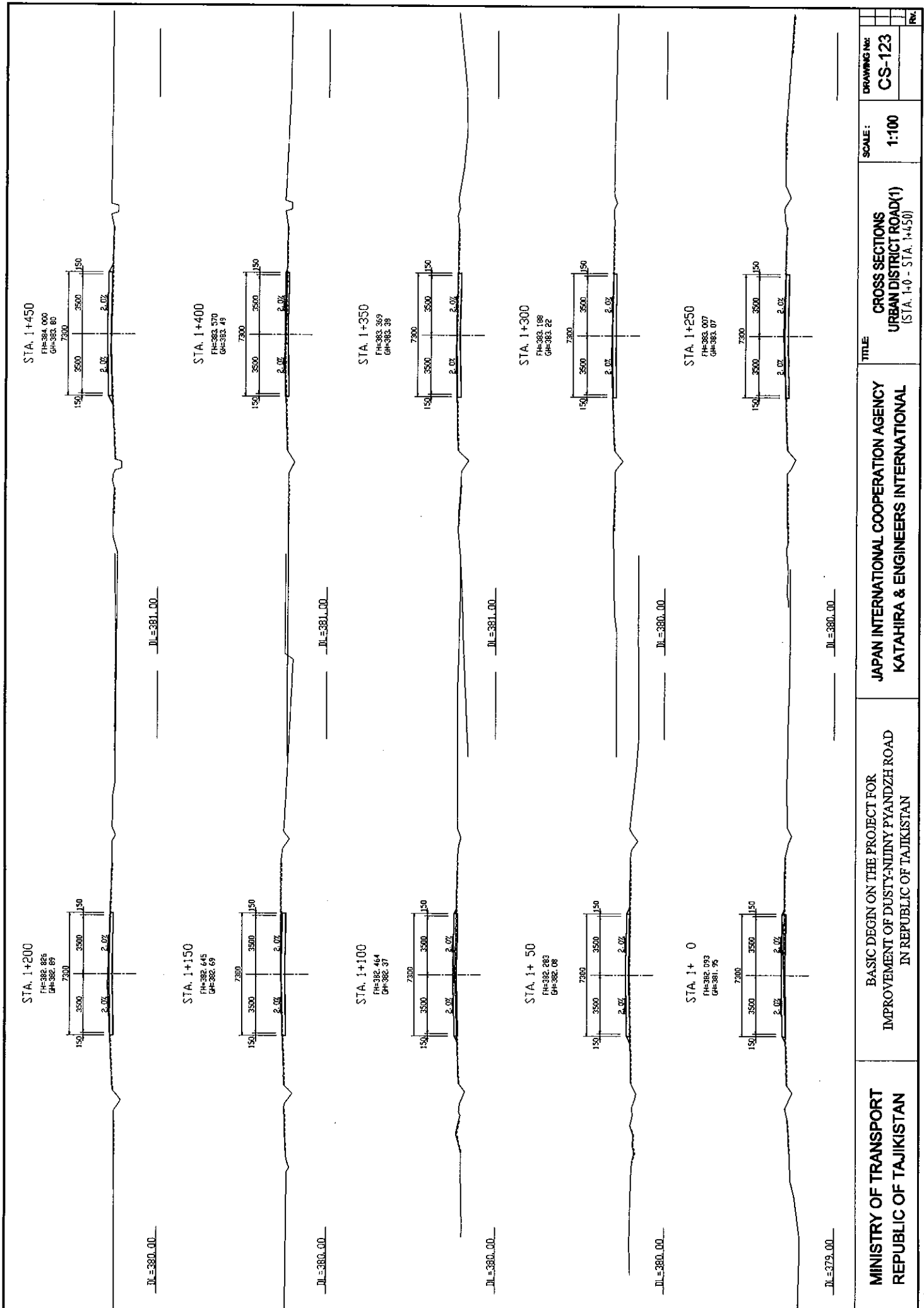




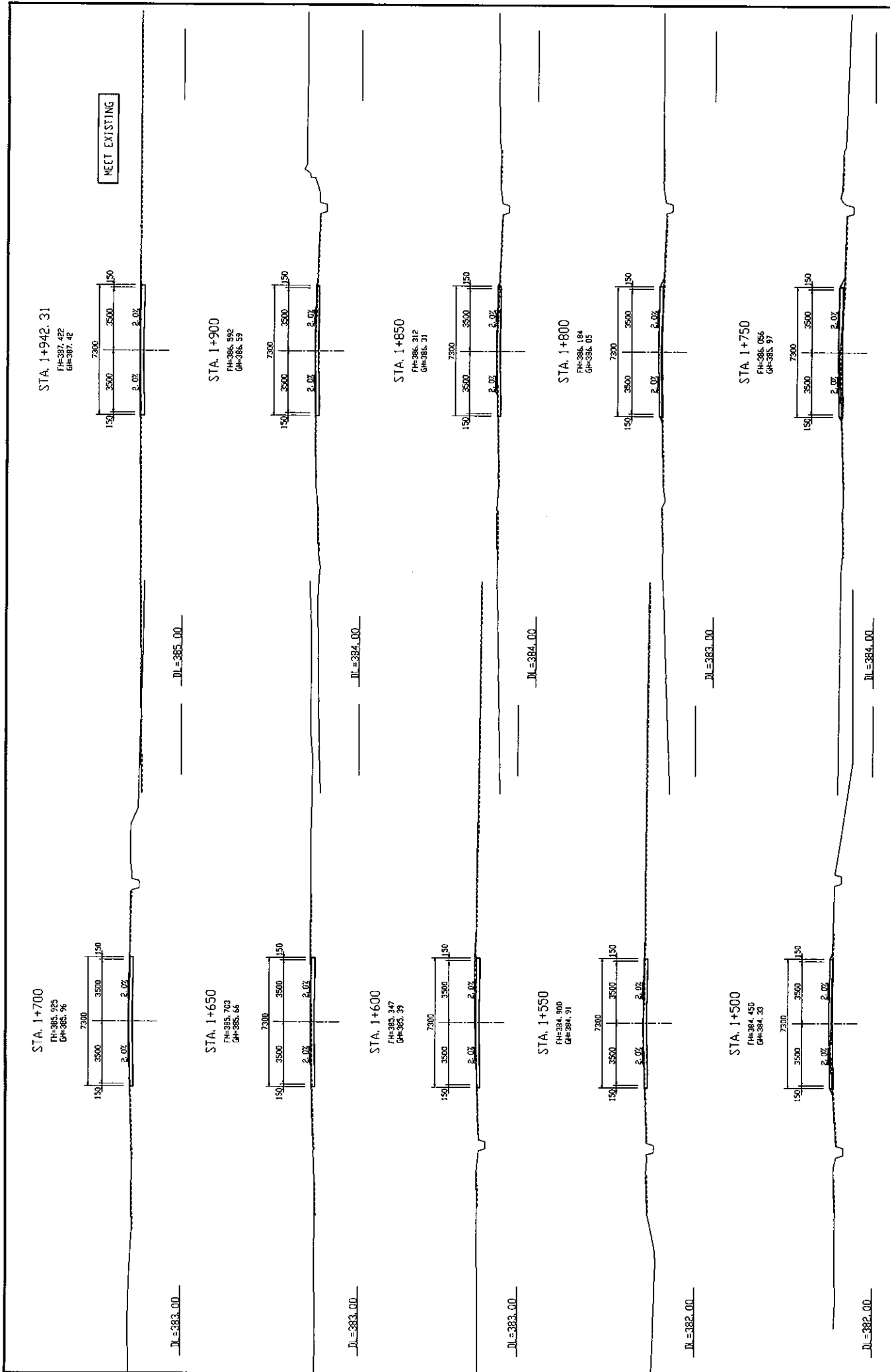
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	BASIC BEGIN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIDIRY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE: CROSS SECTIONS URBAN DISTRICT ROAD(1) (STA. 0+0 - STA. 0+450)</b>	SCALE: 1:100	DRAWING NO: CS-121
				REV:	



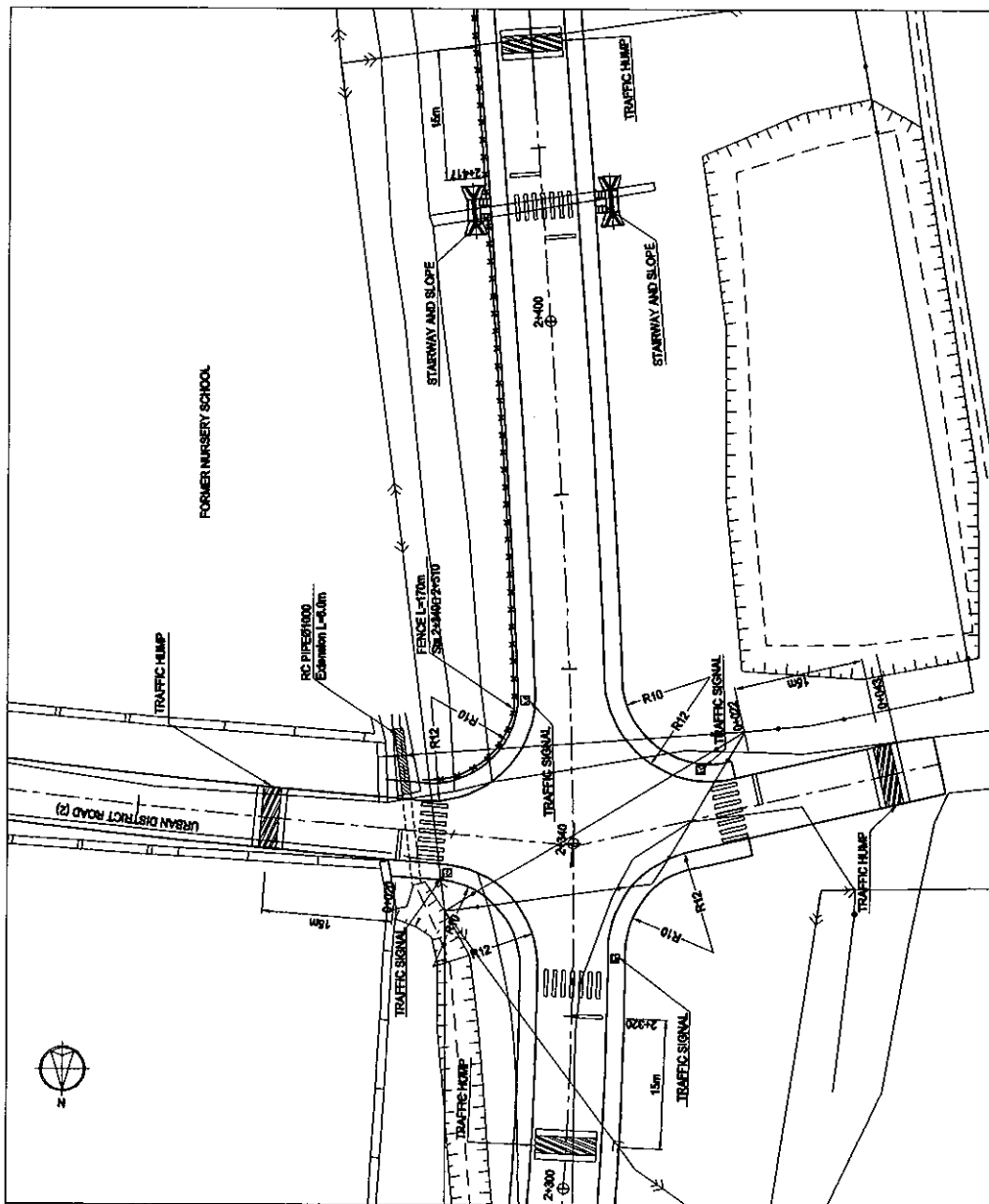
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE CROSS SECTIONS URBAN DISTRICT ROAD(1) (STA. 0+500 - STA. 0+950)</b>	<b>SCALE :</b> 1:100	<b>DRAWING NO.:</b> CS-122
				<b>Rev.:</b>	



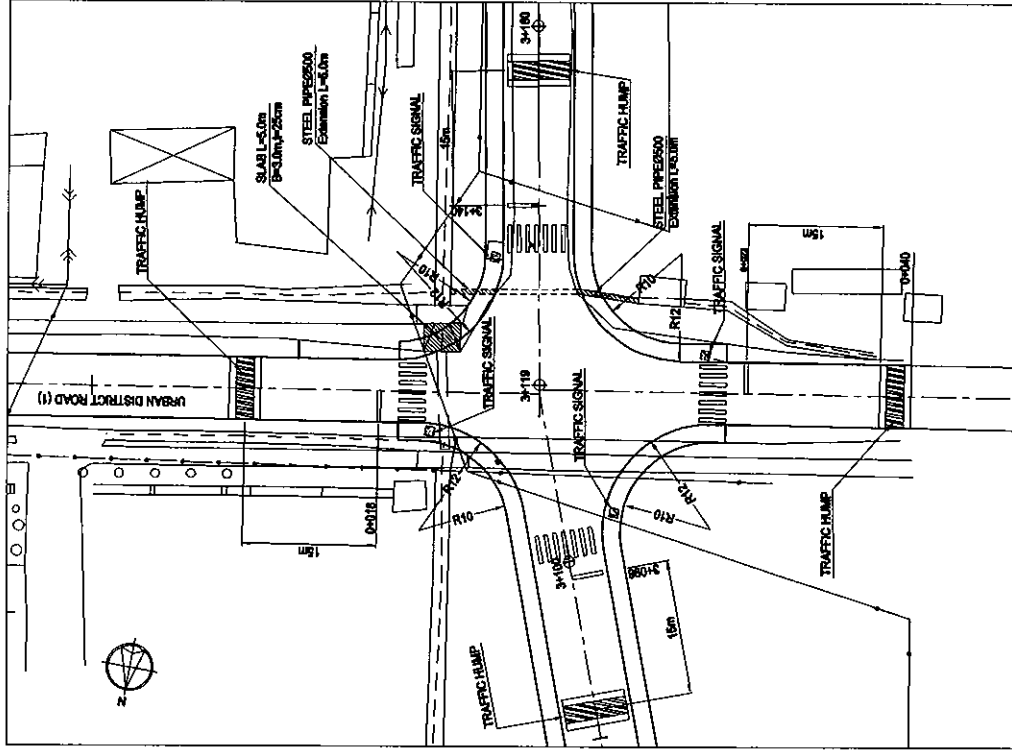
<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE CROSS SECTIONS URBAN DISTRICT ROAD(1) (STA. 1+0 - STA. 1+450)</b>	<b>SCALE:</b> 1:100	<b>DRAWING NO:</b> CS-123
				<b>REV.</b>	



<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE</b> CROSS SECTIONS URBAN DISTRICT ROAD(1) (STA. 1+500 - STA. 1+942.31)	<b>SCALE :</b> 1:100	<b>DRAWING No:</b> CS-124



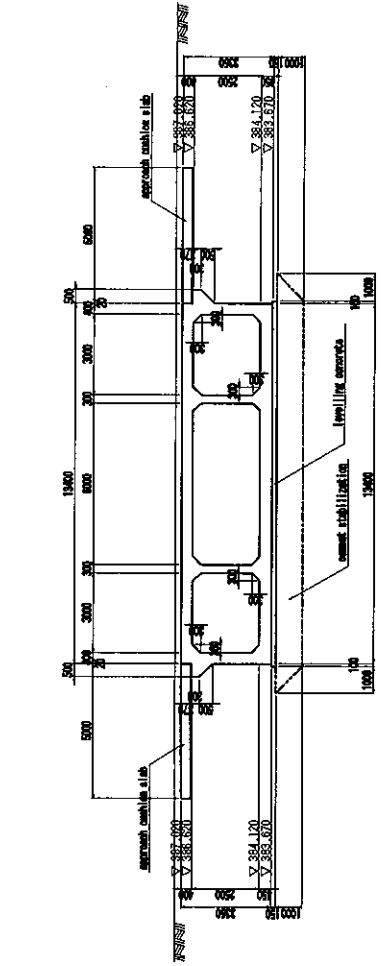
URBAN DISTRICT ROAD (2)



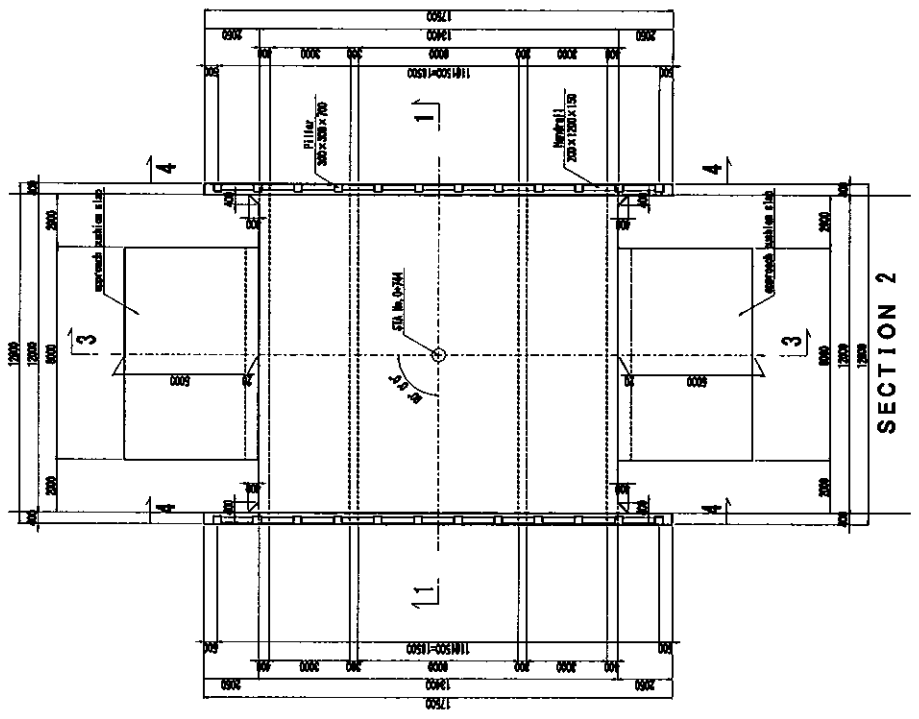
URBAN DISTRICT ROAD (1)

NOTE: Only the Foundation of the Traffic Signal shall be constructed under this Project.  
The Signal shall be constructed under the Expense of the Government of Tajikistan.

MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: INTERSECTION PLAN	SCALE: 1:600	DRAWING No: J-1
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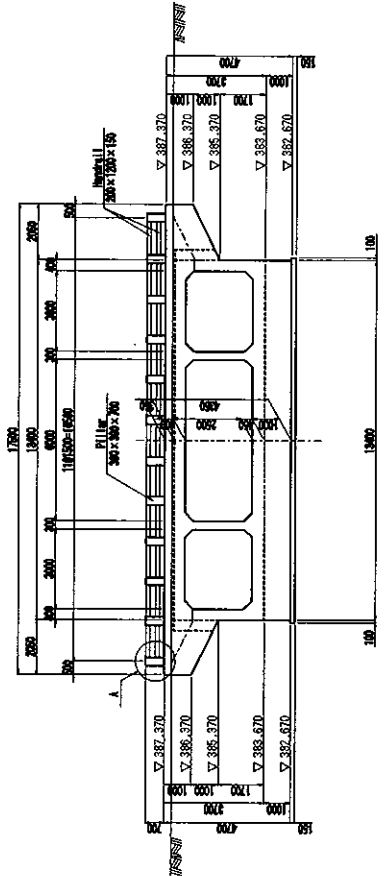


SECTION 1

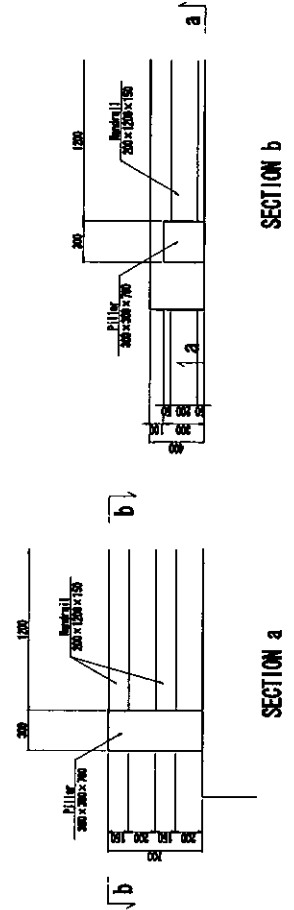


SECTION 2

SECTION 3



SECTION 4

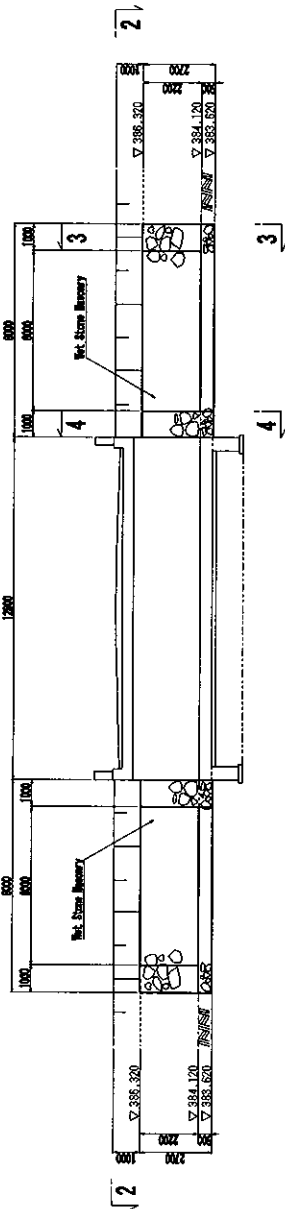


SECTION a

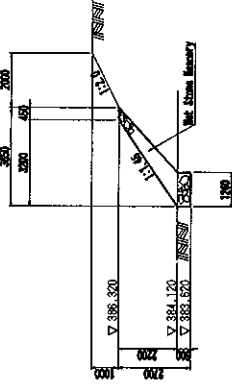
SECTION b

A detail 1:20

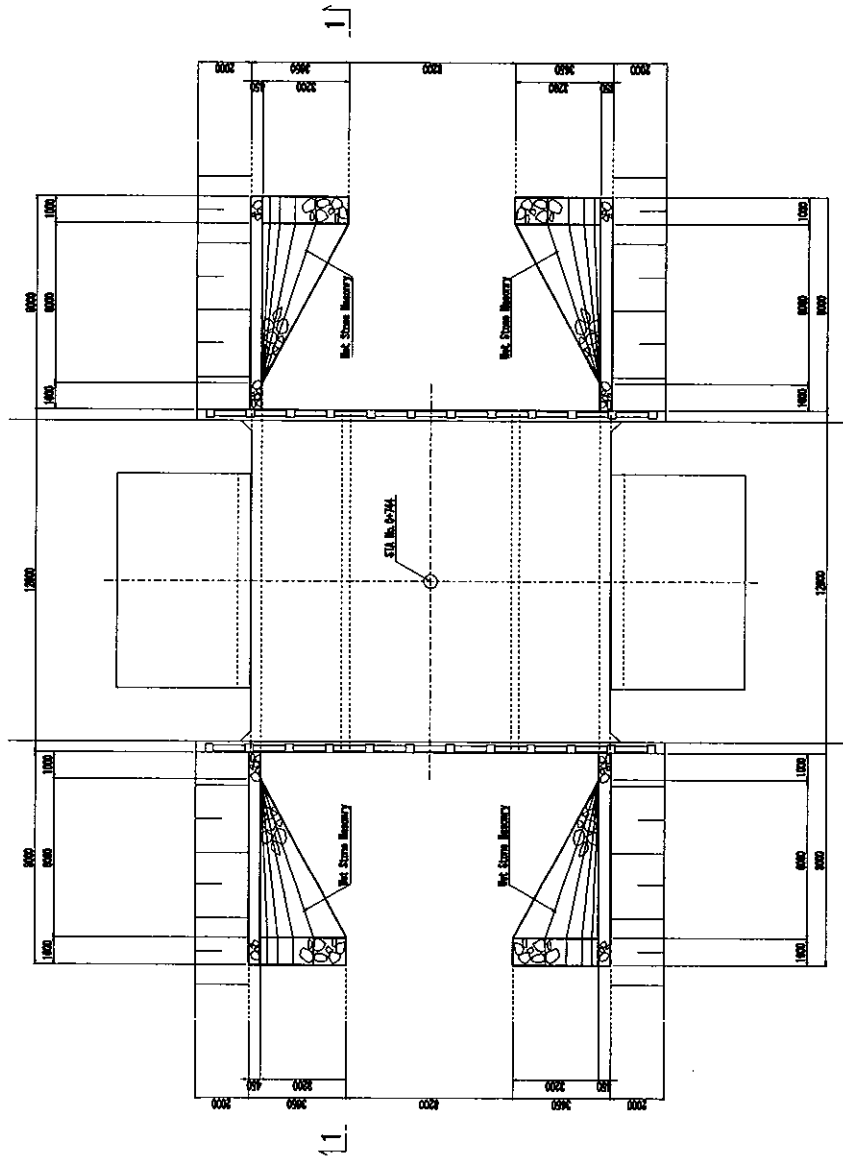
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-INDINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	GENERAL ARRANGEMENT OF BOX CULVERT NO.1	SCALE:	1:100	DRAWING NO:	CD-1	REV.	



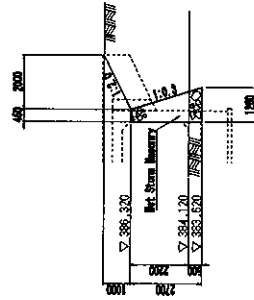
SECTION 1



SECTION 3



SECTION 2



SECTION 4

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

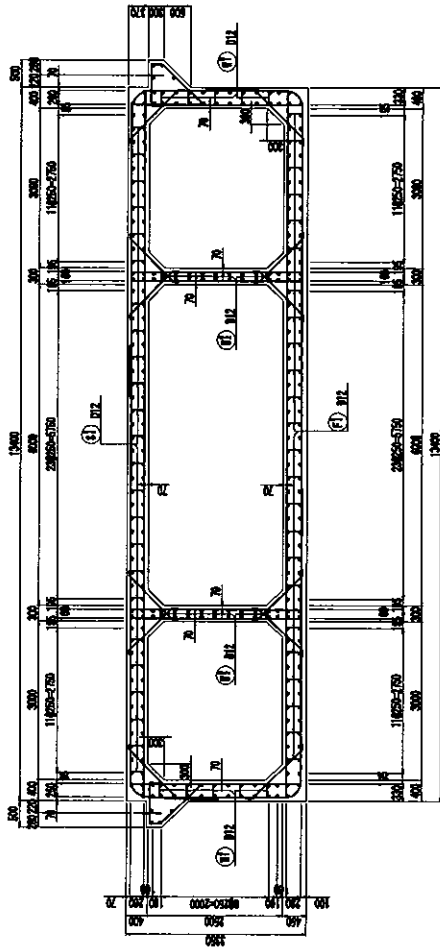
TITLE:  
**GENERAL ARRANGEMENT OF  
WET STONE MASONRY**

SCALE:  
1:100

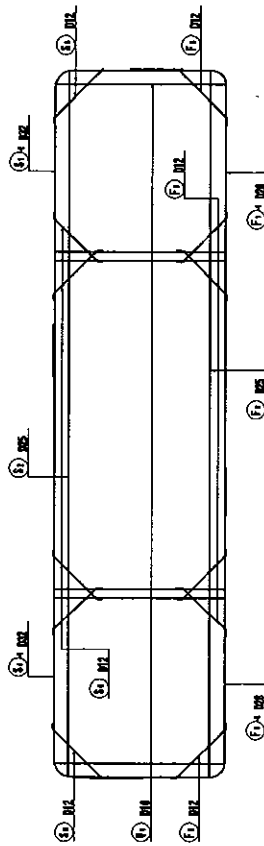
DRAWING NO:  
CD-2

Rv.

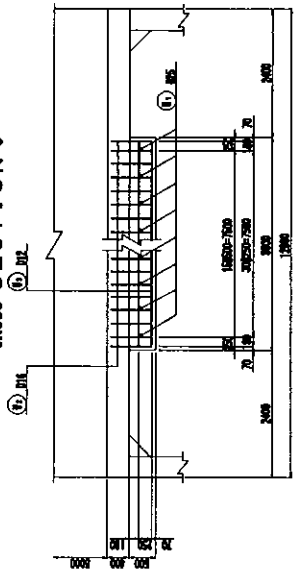
CROSS SECTION  
the main body



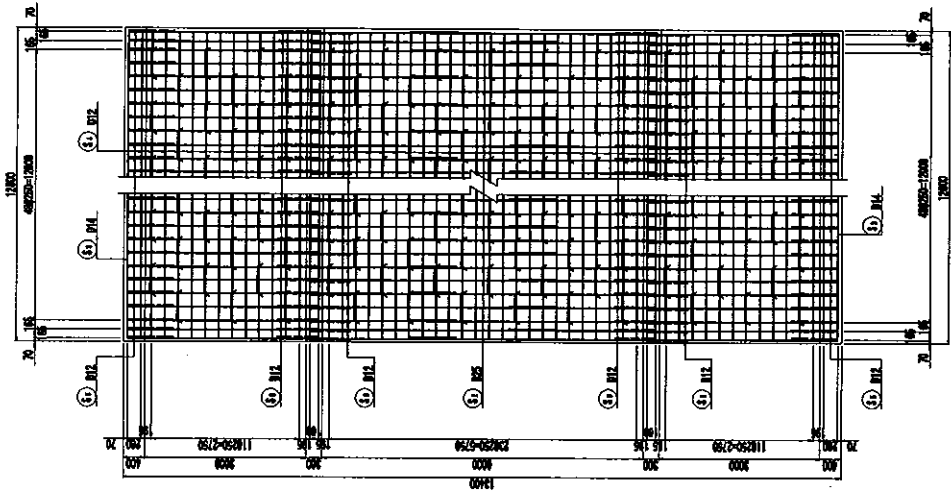
A reinforcing bar group plan  
the main body



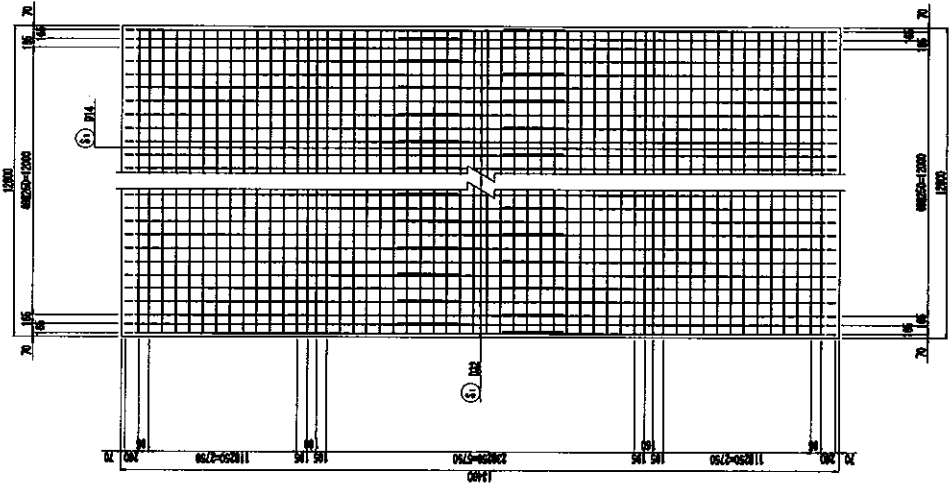
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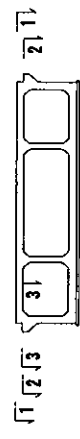
CROSS SECTION 2



CROSS SECTION 1



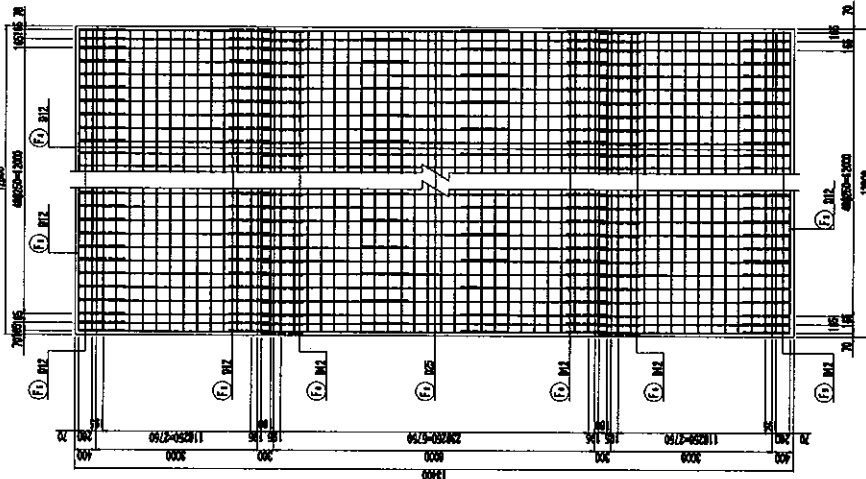
POSITION PLAN



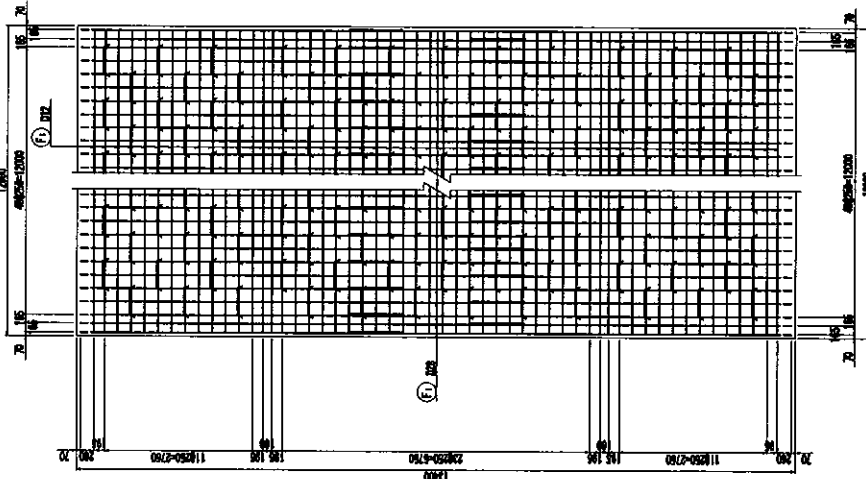
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	SCALE:	DRAWING No:
			1:50	CD-3
			Rv.	



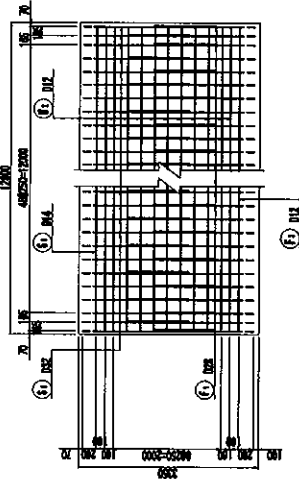
CROSS SECTION 1



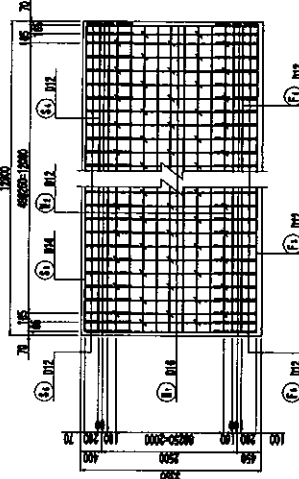
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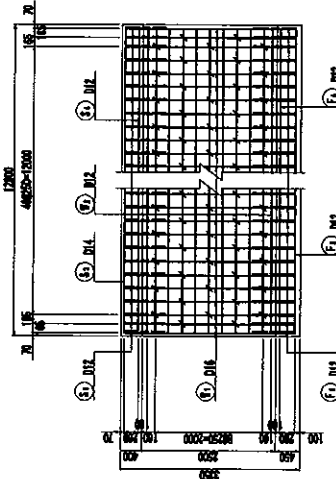
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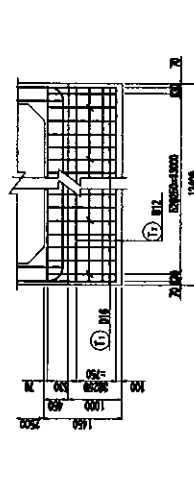
CROSS SECTION 4



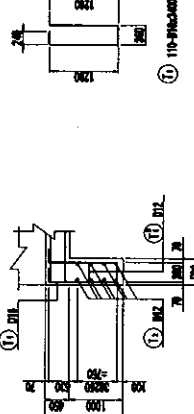
CROSS SECTION 5



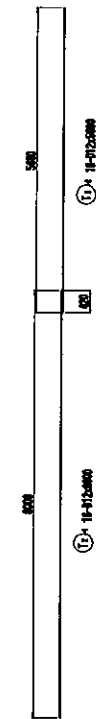
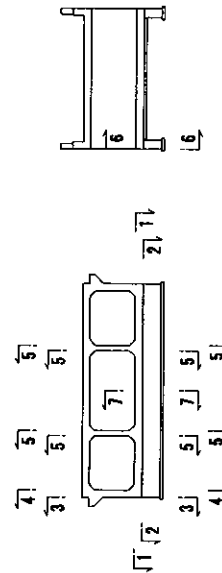
CROSS SECTION 6



CROSS SECTION 7



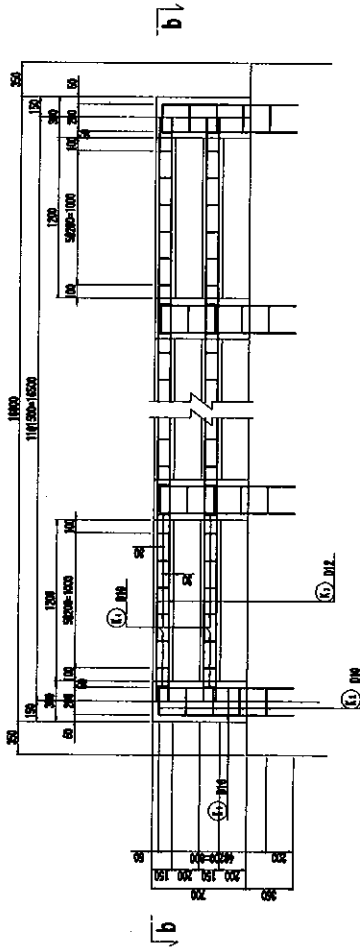
POSITION PLAN



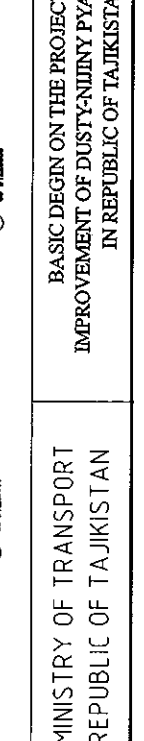
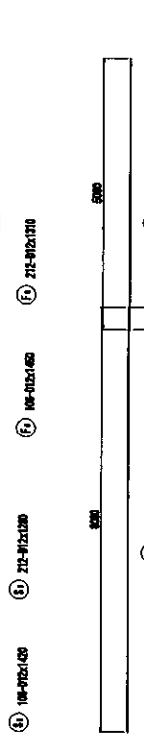
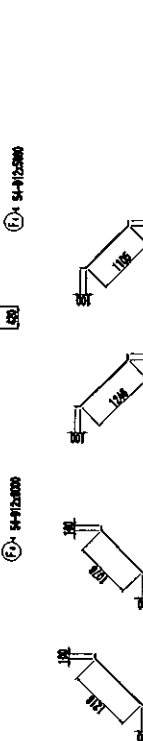
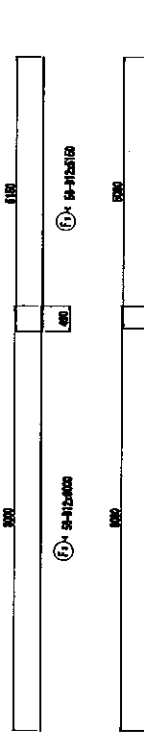
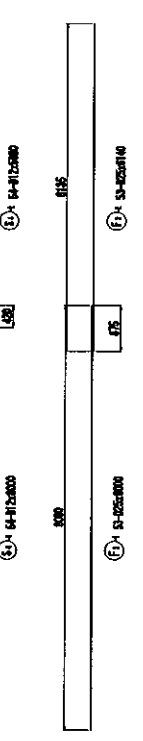
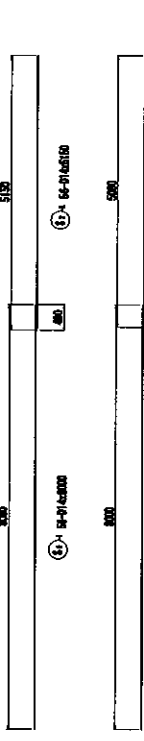
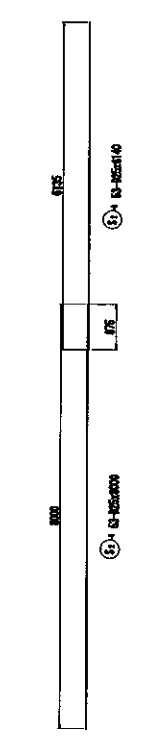
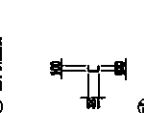
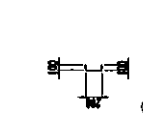
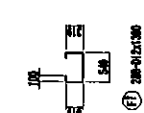
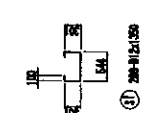
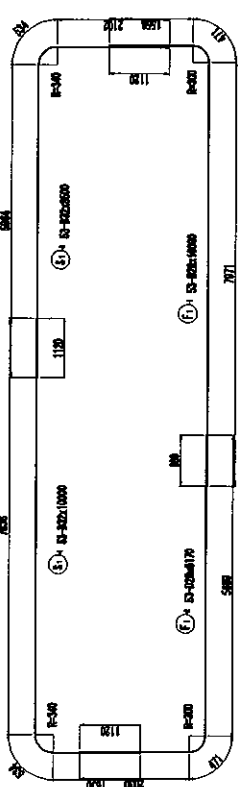
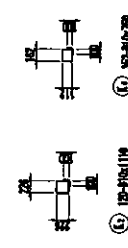
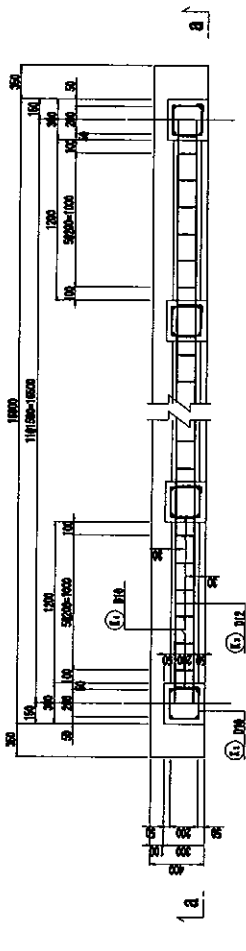
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	NO.1 BOX ARRANGEMENT OF BAR (BOX CULVERT 2/4)	DRAWING No:	CD-4
			SCALE:	1:50		

handrail detail S=1:20

SECTION a



SECTION b



MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE:	SCALE:	DRAWING NO.:
			NO.1 BOX ARRANGEMENT OF BAR (BOX CULVERT 3/4)	1:50	CD-5
					Rv.

REINFORCEMENT LIST

MARK	DIA-METER	LENGTH (m)	EAON	WEIGHT/m (kg/m)	WEIGHT/EAON (kg)	REMARKS
S.1	D12	500	22	1.95	1.025	61.6
S.2	D16	2300	6	1.95	2.492	272.7
S.3	D12	7000	3	0.808	0.800	25.1
Σ						
F.1	D16	3400	110	1.95	5.272	200.0
F.2	D12	2000	16	0.808	7.195	113.7
F.3	∅	6000	18	∅	0.004	60.7
Σ						
T.1	D12	100	20	0.808	0.624	14.7
Σ						
S.1	D10	1000	36	1.59	1.590	151.7
S.2	D10	1110	120	0.617	0.605	62.2
S.3	D12	10000	10	0.808	0.800	143.1
S.4	∅	6000	18	∅	0.145	60.3
S.5	D10	250	352	0.617	0.455	153.0
Σ						
D12	01272.0	kg				
D10	4611.3	kg				
D16	5932.2	kg				
D14	2577.9	kg				
D12	5924.4	kg				
D10	243.2	kg				
Σ	25772.1	kg				

MARK	DIA-METER	LENGTH (m)	EAON	WEIGHT/m (kg/m)	WEIGHT/EAON (kg)	REMARKS
S.1	D12	1000	53	4.23	63.10	2344.3
S.2	∅	6000	53	∅	63.695	2462.7
S.3	D16	6000	53	1.95	21.400	1024.4
S.4	∅	6140	53	∅	21.639	1252.0
S.5	D12	6000	53	0.808	2.154	367.8
S.6	∅	6120	53	∅	4.073	226.1
S.7	∅	6000	53	∅	7.194	363.8
S.8	∅	1450	103	∅	1.208	124.5
S.9	∅	1310	212	∅	1.153	244.6
Σ						
S.1	D12	1250	200	0.808	1.109	245.3
Σ						
F.1	D10	1000	53	4.23	48.300	2528.0
F.2	∅	6170	53	∅	39.451	2071.4
F.3	D12	6000	53	2.35	29.300	1422.4
F.4	D12	6140	53	∅	21.639	1252.0
F.5	D12	6000	53	0.808	2.154	367.8
F.6	∅	6120	53	∅	4.073	226.1
F.7	∅	6000	53	∅	7.194	363.8
F.8	∅	1450	103	∅	1.208	124.5
F.9	∅	1310	212	∅	1.153	244.6
Σ						
F.1	D12	1300	200	0.808	1.225	245.1
Σ						
S.1	D16	3100	210	1.95	5.604	1972.0
S.2	D12	6000	60	0.808	2.104	636.2
S.3	∅	6000	60	∅	4.811	877.0
Σ						
S.1	D12	600	264	0.808	0.444	115.8
S.2	∅	200	258	∅	0.206	87.0
Σ						

DRIVING NO: CD-6

SCALE:

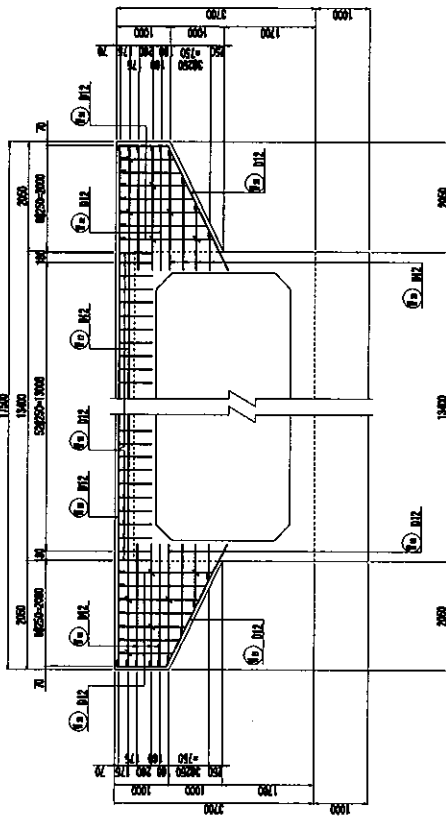
TITLE: NO.1 BOX ARRANGEMENT OF BAR (BOX CULVERT 4/4)

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO. LTD

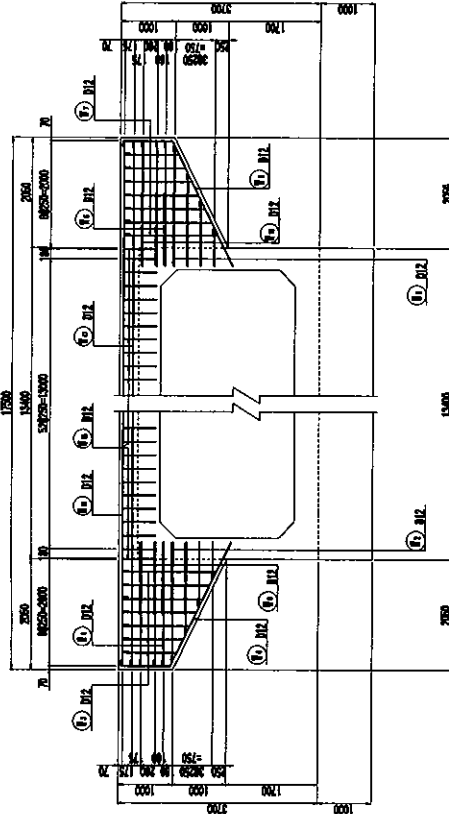
BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NINJY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

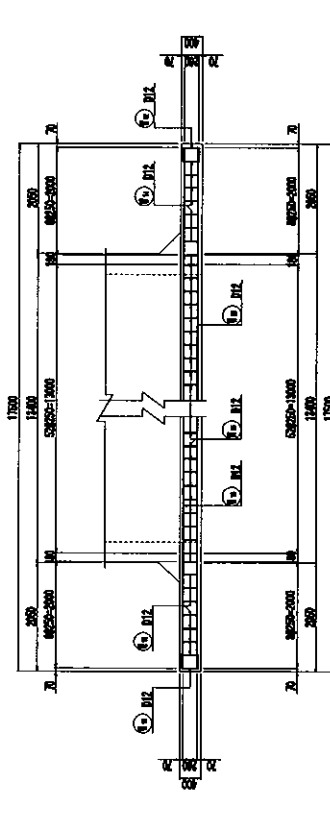
CROSS SECTION 1



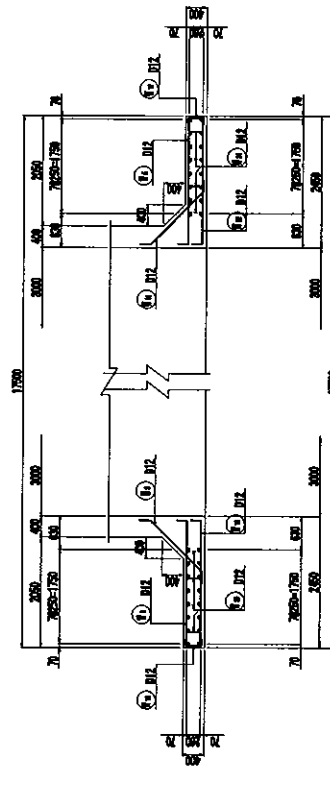
CROSS SECTION 2



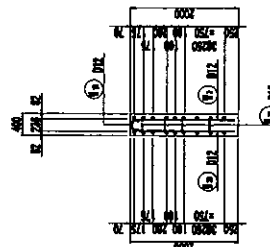
CROSS SECTION 3



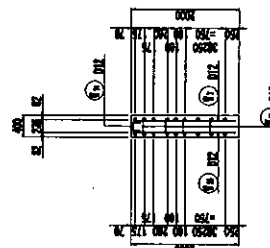
CROSS SECTION 4



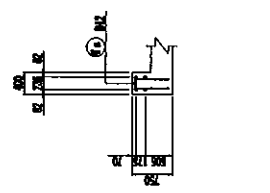
CROSS SECTION 5



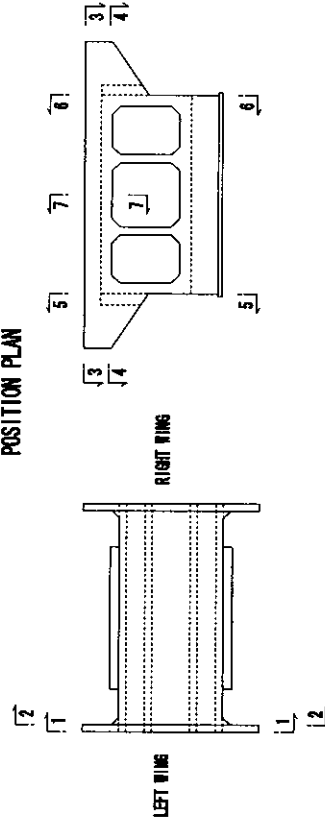
CROSS SECTION 6



CROSS SECTION 7



POSITION PLAN



MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CT ENGINEERING INTERNATIONAL CO., LTD

TITLE:  
NO.1 BOX ARRANGEMENT OF BAR  
(WING WALL 1/2)

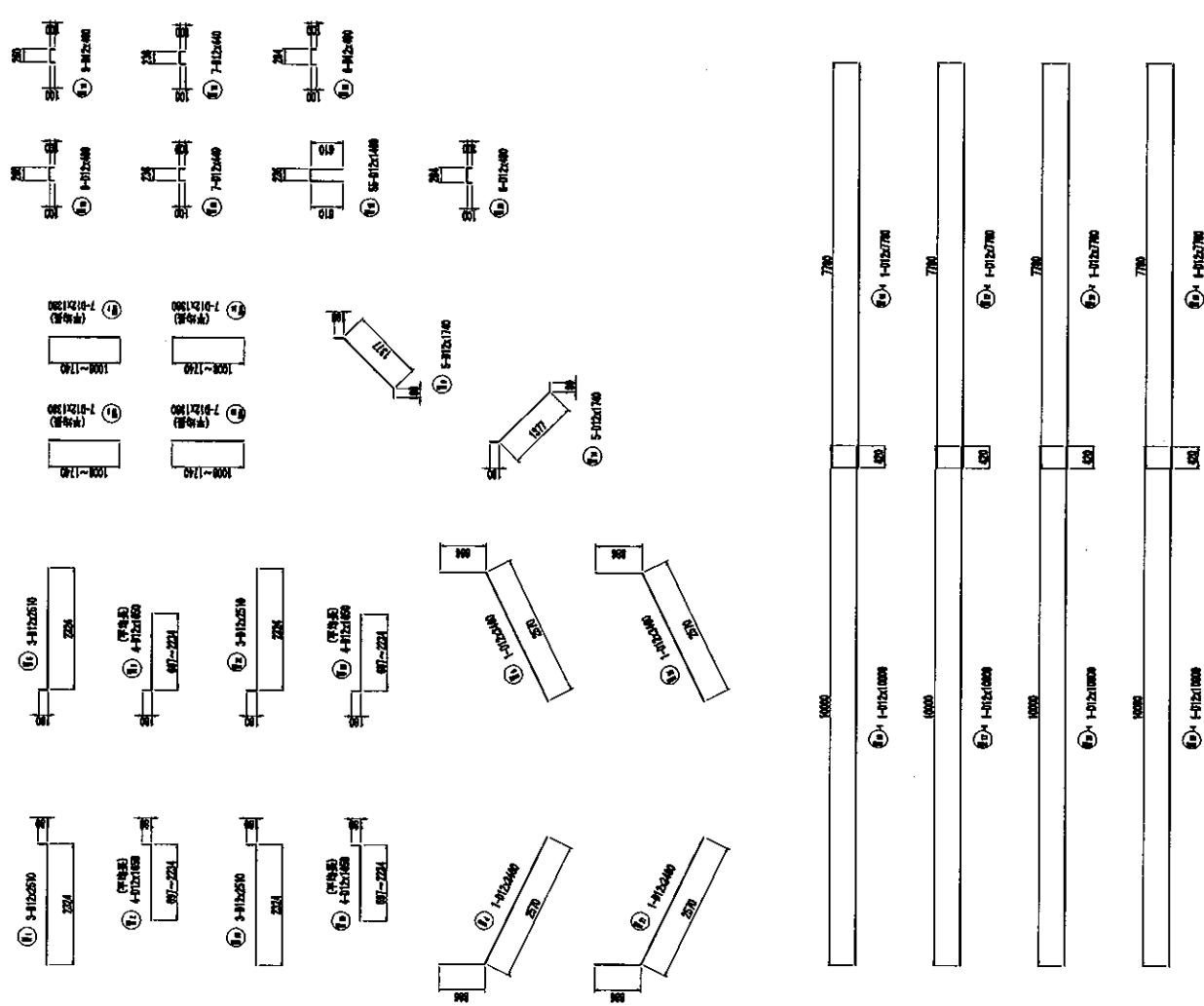
SCALE:  
1:50

DRAWING NO:  
CD-7

Rv.

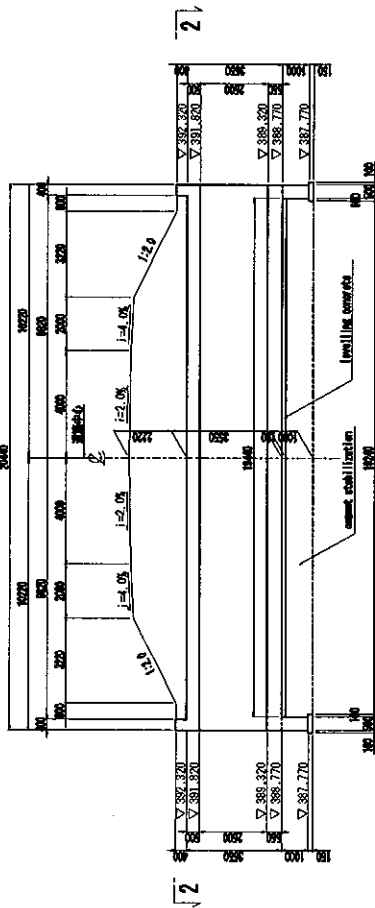
# REINFORCEMENT LIST

MARK	SHAPE	LENGTH (mm)	COUNT	WEIGHT/m (kg)	WEIGHT (kg)	REMARKS
1	1	2510	3	0.030	2.220	8.7
2	2	1850	4	"	1.465	5.9
3	3	1300	7	"	1.225	4.9
4	4	3400	1	"	3.072	3.1
5	5	2510	3	"	2.220	8.7
6	6	1850	4	"	1.465	5.9
7	7	1300	7	"	1.225	4.9
8	8	3400	1	"	3.072	3.1
9	9	1700	5	"	0.400	3.7
10	10	1700	5	"	1.645	7.7
11	11	400	9	"	0.400	3.7
12	12	400	9	"	0.391	2.7
13	13	1400	5	"	1.204	7.1
14	14	1000	1	"	0.800	0.8
15	15	700	1	"	0.100	0.9
16	16	700	1	"	0.100	0.9
17	17	700	1	"	0.100	0.9
18	18	2510	3	"	2.220	8.7
19	19	1850	4	"	1.465	5.9
20	20	1300	7	"	1.225	4.9
21	21	3400	1	"	3.072	3.1
22	22	1600	4	"	1.465	5.9
23	23	1300	7	"	1.225	4.9
24	24	3400	1	"	3.072	3.1
25	25	1000	1	"	0.800	0.9
26	26	700	1	"	0.100	0.9
27	27	400	8	"	0.400	3.6
28	28	400	8	"	0.405	2.9

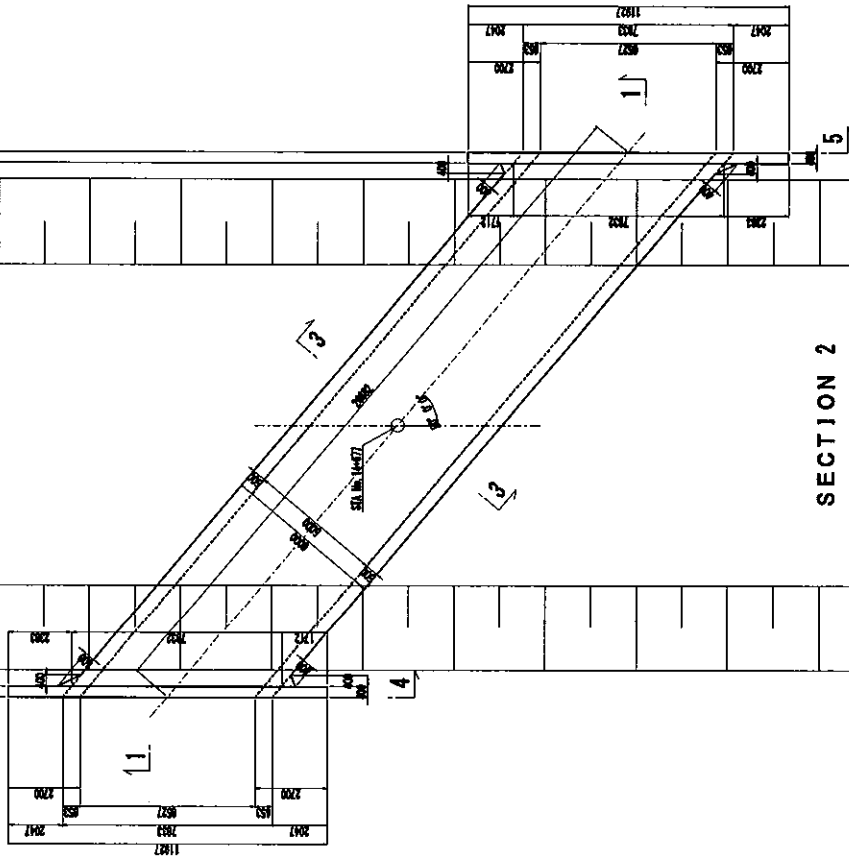


1	25.1	kg	x	2	=	50.2	kg
2	18.5	kg	x	2	=	37.0	kg

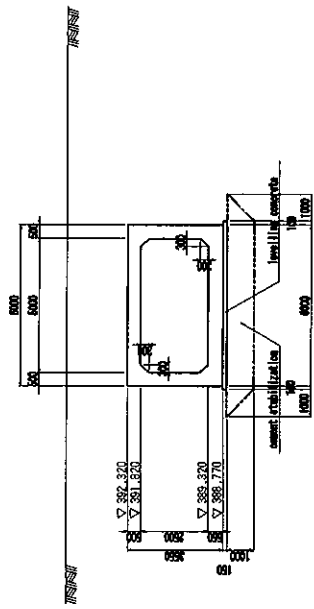
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	DRAWING NO: <b>CD-8</b>
TITLE: <b>NO.1 BOX ARRANGEMENT OF BAR          (WING WALL 2/2)</b>			SCALE: <b>1-50</b>
			REV.



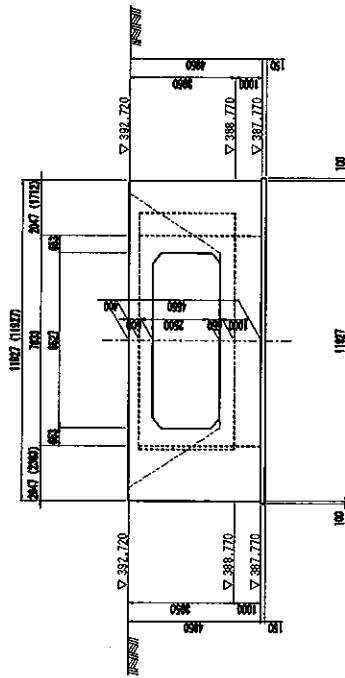
SECTION 1



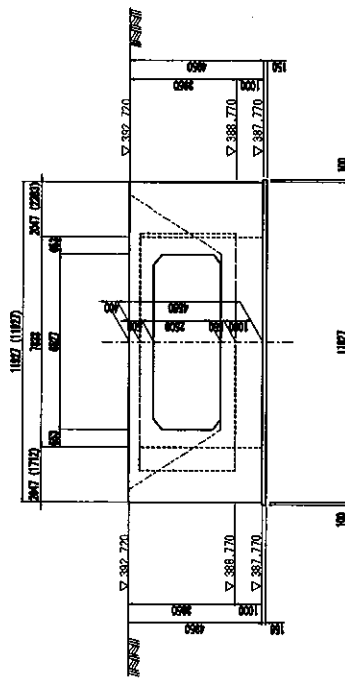
SECTION 2



SECTION 3



SECTION 4



SECTION 5

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO. LTD

TITLE:  
**GENERAL ARRANGEMENT OF  
BOX CULVERT NO.2**

SCALE:  
1:100

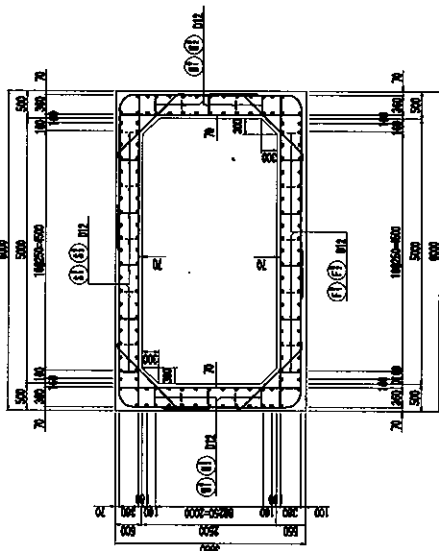
DRAWING NO:  
CD-9

Rv.

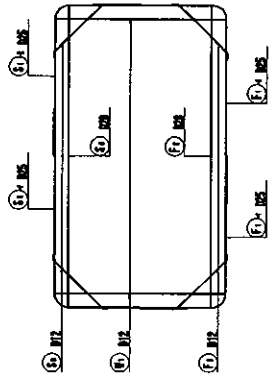
**GENERAL VIEW OF BOX CULVERT No. 2**  
**REINFORCEMENT ARRANGEMENT DRAWING (1/4)**

S= 1:50

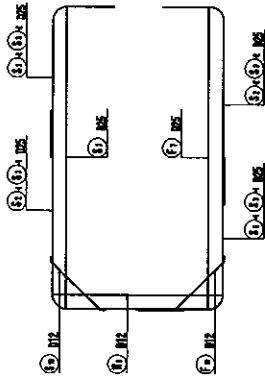
**CROSS SECTION**  
the main body



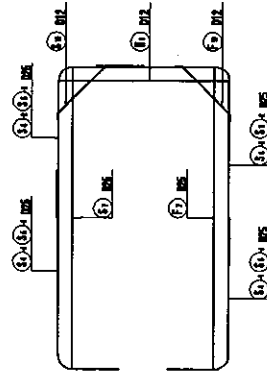
A reinforcingbar group plan  
the main body



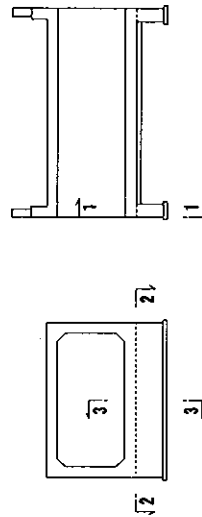
an angle of skew  
LEFT



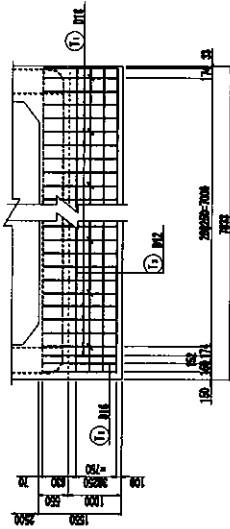
RIGHT



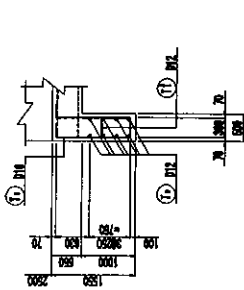
**POSITION PLAN**



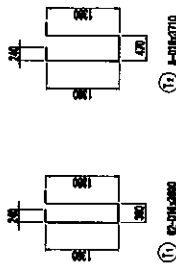
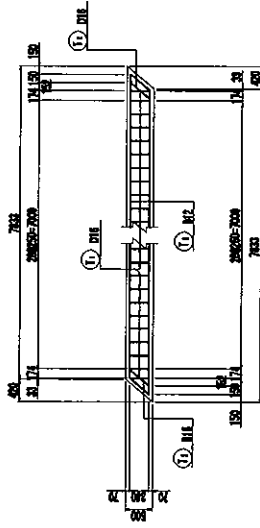
**CROSS SECTION 1**



**CROSS SECTION 3**

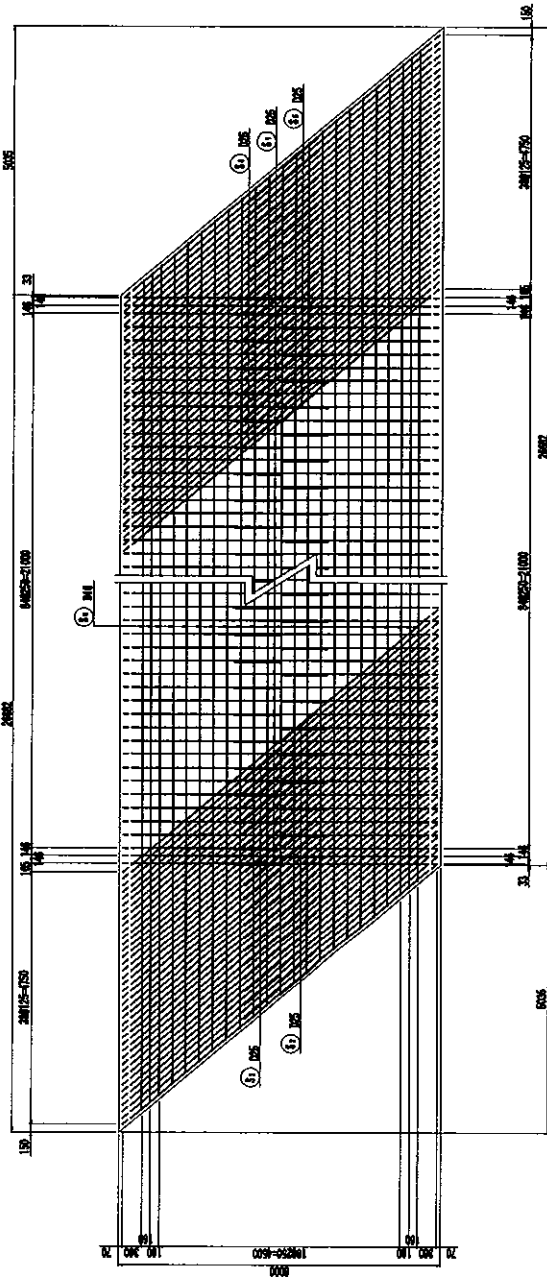


**CROSS SECTION 2**

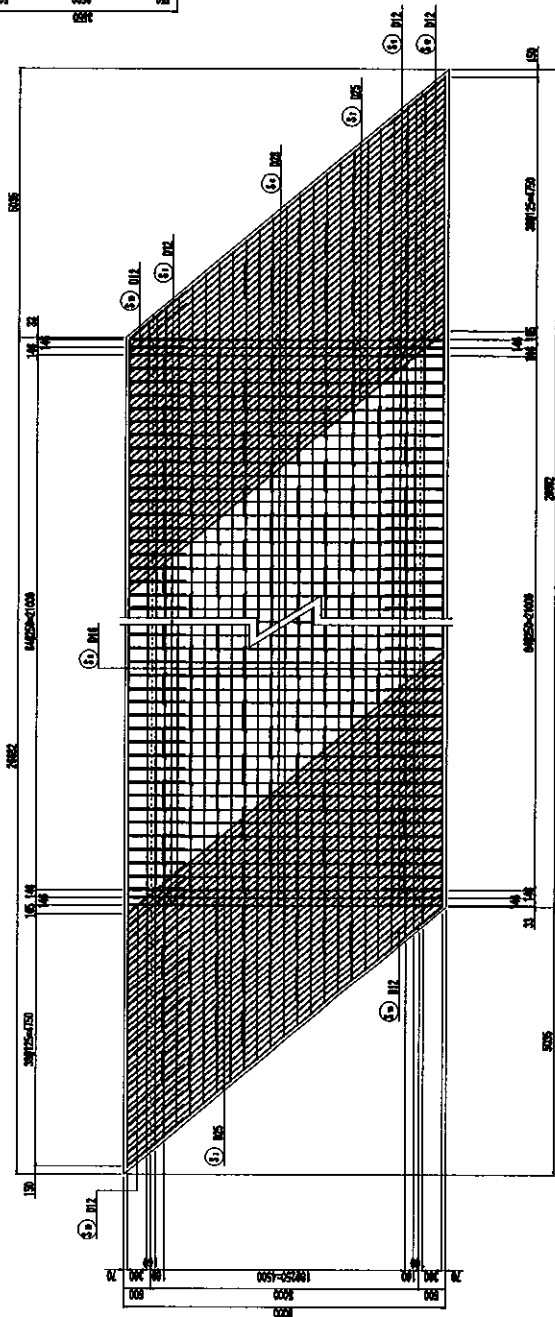


MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DEGIN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO. LTD	TITLE:	NO.2 BOX ARRANGEMENT OF BAR (BOX CULVERT 1/4)	SCALE:	1:50	DRAWING No.:	CD-10	RV:

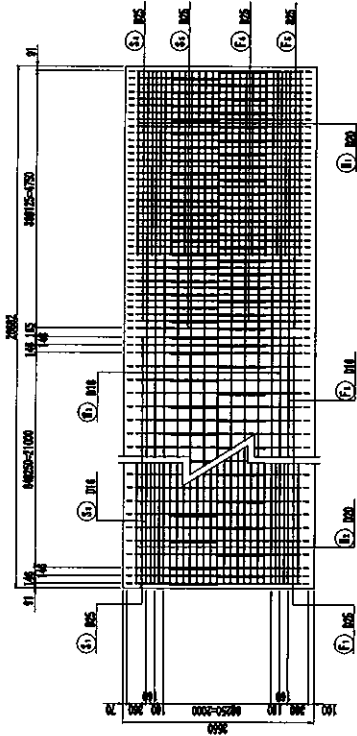
CROSS SECTION 1



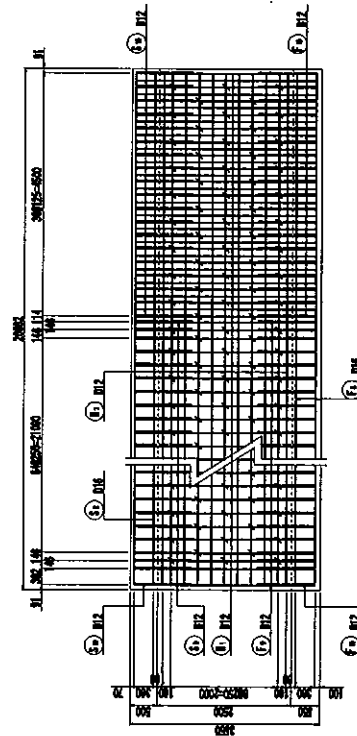
CROSS SECTION 2



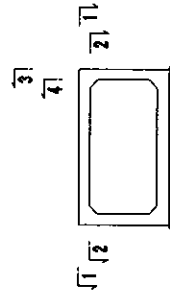
CROSS SECTION 3



CROSS SECTION 4



POSITION PLAN



MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE:  
NO.2 BOX ARRANGEMENT OF BAR  
(BOX CULVERT 2/4)

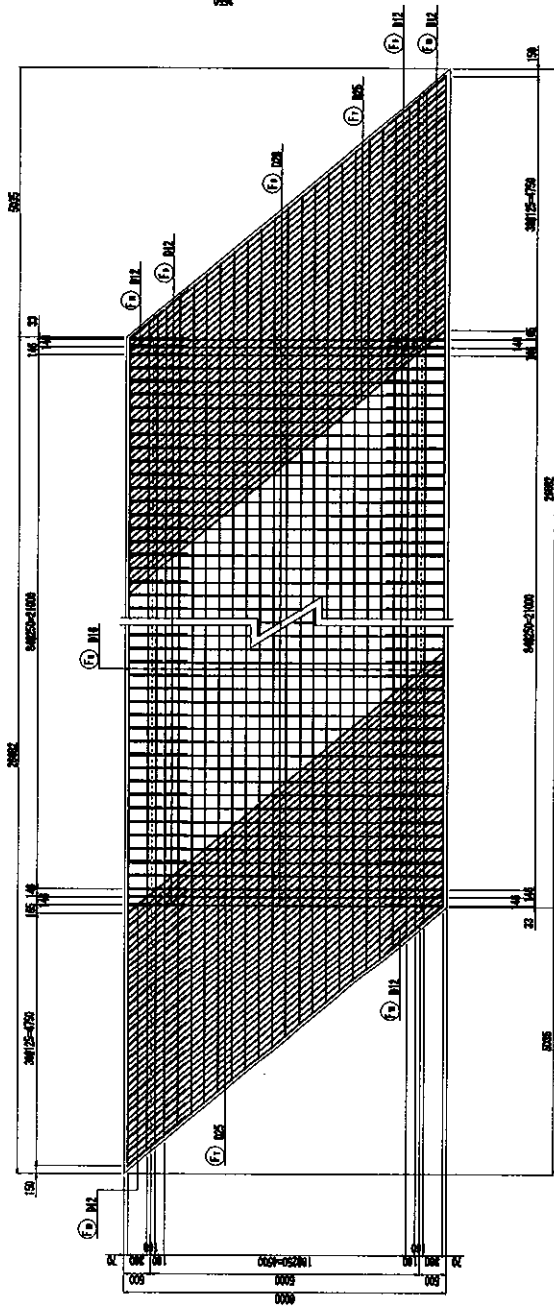
SCALE:  
1:50

DRAWING NO:  
CD-11

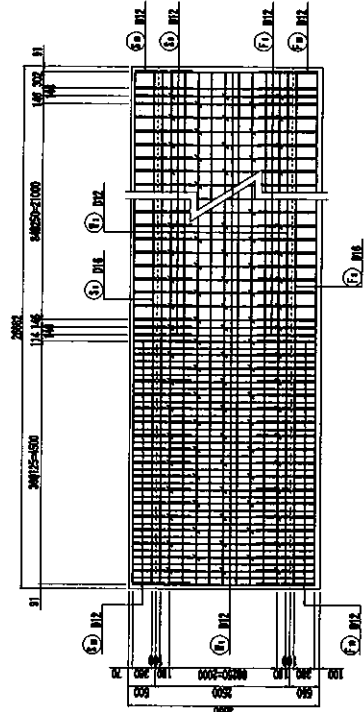
RV.



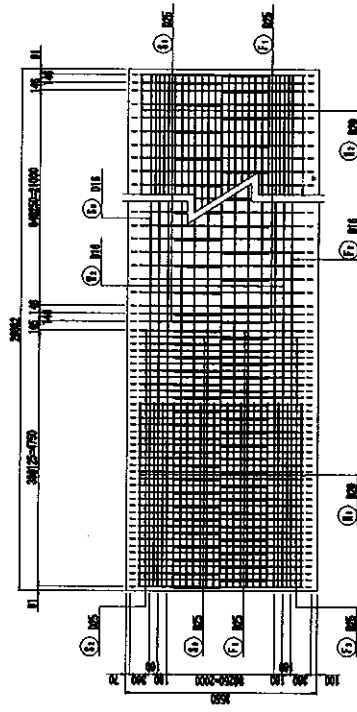
CROSS SECTION 1



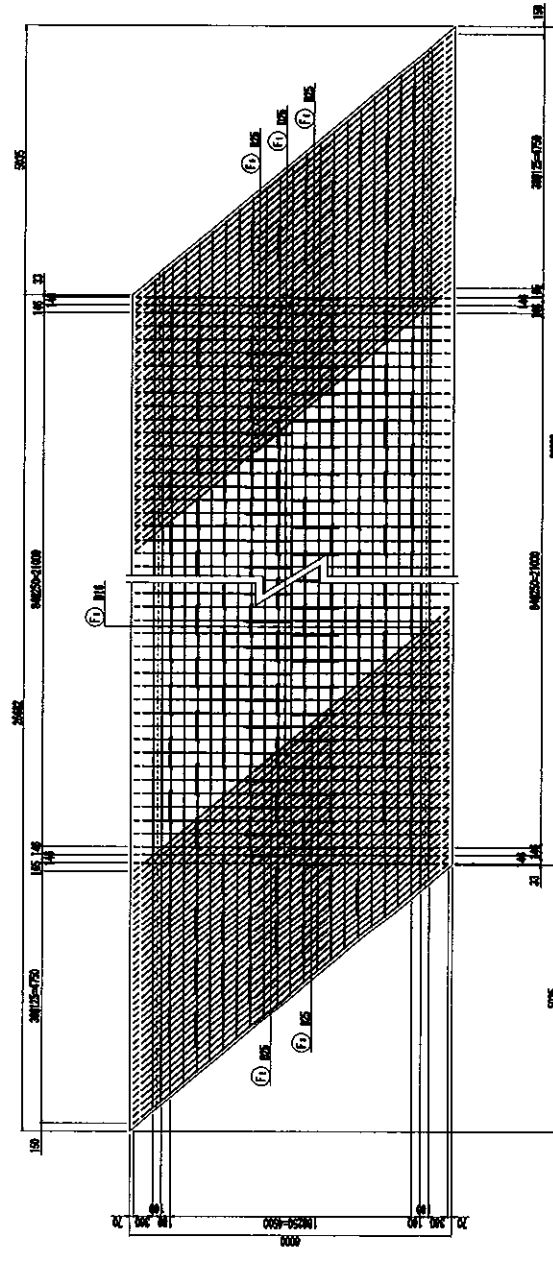
CROSS SECTION 3



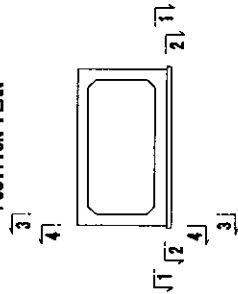
CROSS SECTION 4



CROSS SECTION 2



POSITION PLAN



MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

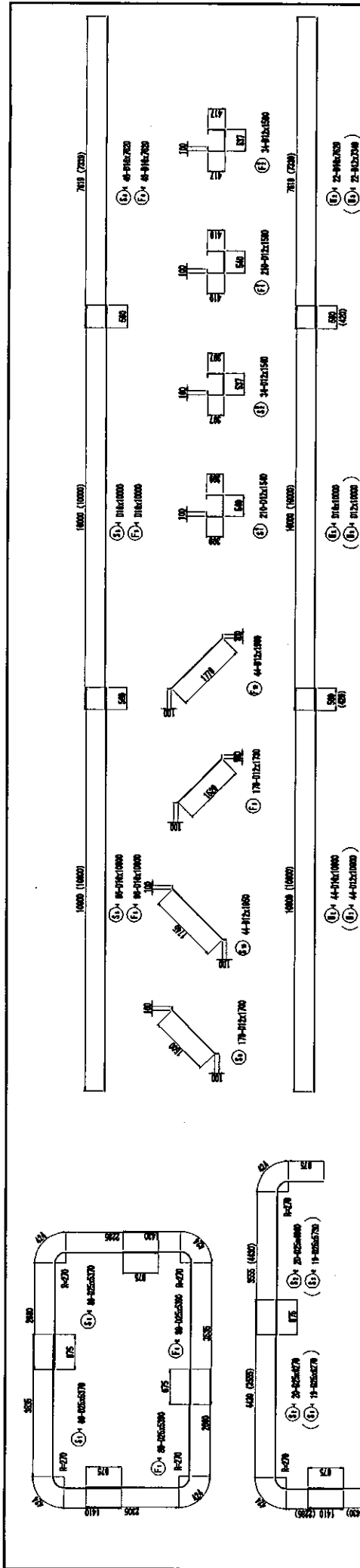
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE:  
ARRANGEMENT OF BAR NO.2 BOX  
(BOX CULVERT 3/4)

SCALE:  
1:50

DRAWING NO:  
CD-12

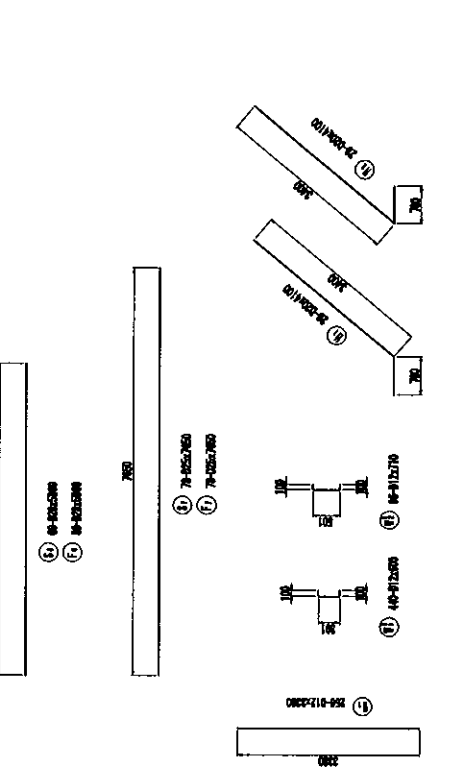
Rv.



**REINFORCEMENT LIST**

MARK	DIA. REIN. (mm)	LENGTH (mm)	EACH	REINFT/m (02/10)	REINFT/NO. (02)	REINFT	REMARKS
1-4	R12	570	8	3.16	25.675	194.1	
1-4	"	570	8	"	25.675	194.1	
1-4	"	420	20	"	24.140	482.8	
1-4	"	480	20	"	18.711	374.2	
1-4	"	620	10	"	24.140	482.8	
1-4	"	570	10	"	22.061	441.2	
1-4	"	480	10	"	18.711	374.2	
1-4	"	670	10	"	24.140	482.8	
1-4	"	670	20	"	22.061	441.2	
1-4	"	670	20	"	24.140	482.8	
1	R12	800	8	4.13	28.500	228.0	
1	R12	760	7	3.16	25.675	194.1	
1-4	R12	1000	16	1.58	16.000	161.6	
1-4	"	760	4	"	12.400	124.0	
1	"	170	17	0.88	1.510	24.6	
1	"	180	44	"	1.720	75.2	
Σ						1408.1 kg	
1	"	150	210	0.88	1.58	331.8	
1	"	150	34	"	1.58	48.1	
Σ						380.0 kg	

MARK	DIA. REIN. (mm)	LENGTH (mm)	EACH	REINFT/m (02/10)	REINFT/NO. (02)	REINFT	REMARKS
1-4	R12	1800	34	"	1.400	47.6	
1	"	1800	34	"	1.400	47.6	
Σ						342.3 kg	
1	R12	2500	25	0.88	3.071	76.8	
1-4	R12	1000	44	1.58	15.000	665.2	
1-4	"	760	22	"	12.400	262.8	
1-4	R12	1000	44	0.88	0.880	388.7	
1-4	"	760	22	"	0.510	144.4	
Σ						2262.6 kg	
1	R12	800	440	0.88	0.551	241.6	
1	"	760	10	"	0.510	48.5	
Σ						290.1 kg	
1	"	4100	20	2.47	10.127	232.8	
1	"	4100	20	"	10.127	232.8	
Σ						465.7 kg	
1	R12	2000	62	1.58	5.000	262.7	
1	"	2700	8	"	5.800	46.4	
1	R12	2000	10	0.88	0.790	158.7	
Σ						467.8 kg	
1	R12	2000	10	0.88	0.790	158.7	
1	"	2000	10	0.88	0.790	158.7	
Σ						317.4 kg	
1	R12	2000	10	0.88	0.790	158.7	
1	"	2000	10	0.88	0.790	158.7	
Σ						317.4 kg	
1	R12	2000	10	0.88	0.790	158.7	
1	"	2000	10	0.88	0.790	158.7	
Σ						317.4 kg	



MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

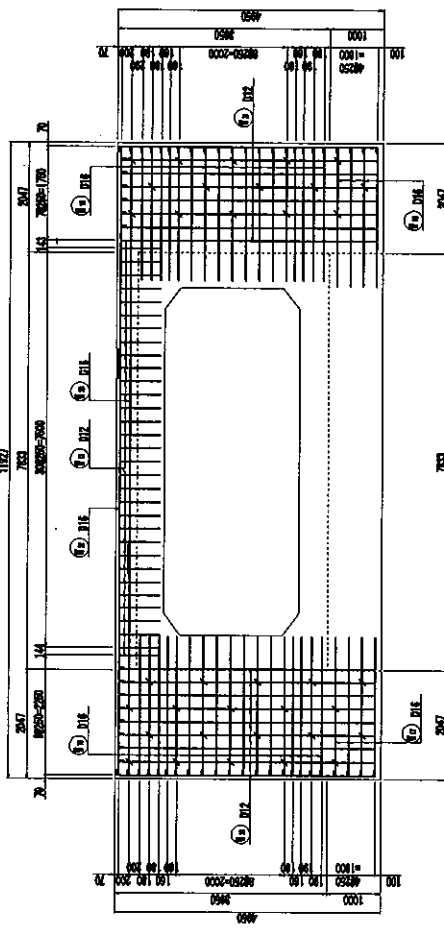
TITLE:  
NO.2 BOX ARRANGEMENT OF BAR  
(BOX CULVERT 4/4)

SCALE:  
1:50

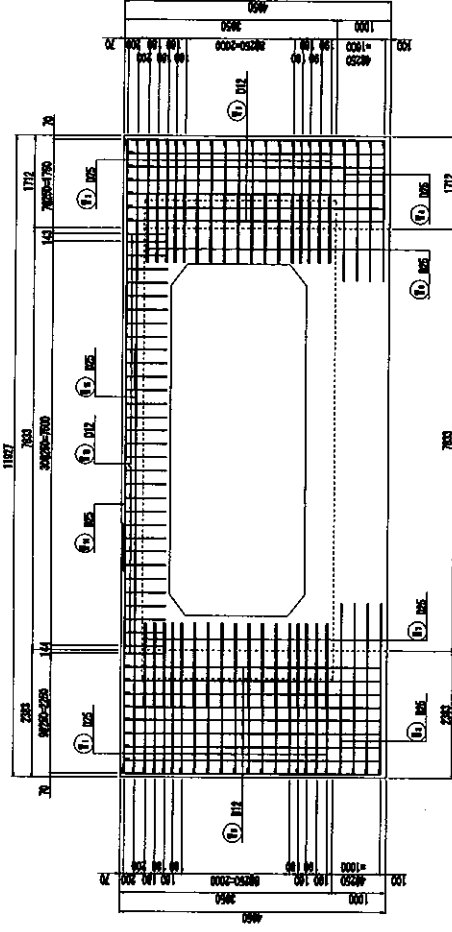
DRAWING NO:  
CD-13

Rv.

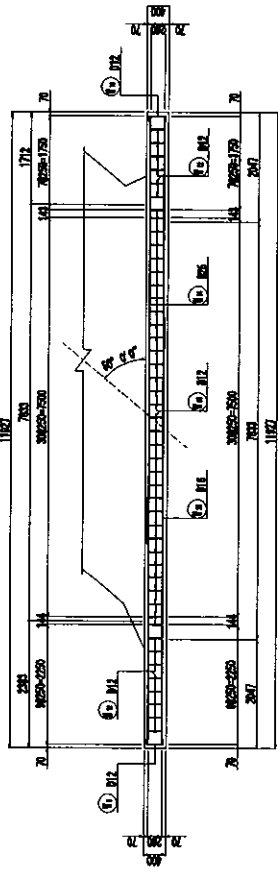
CROSS SECTION 1



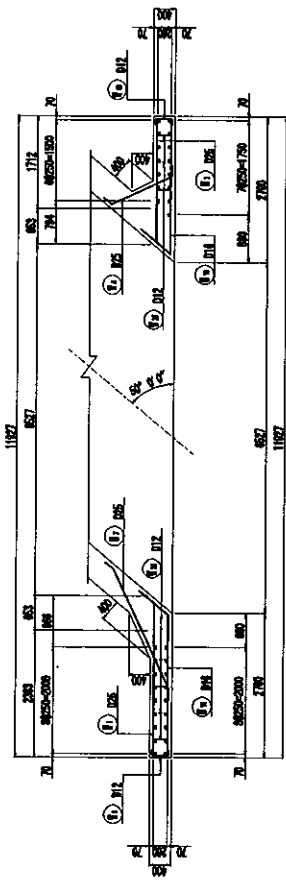
CROSS SECTION 2



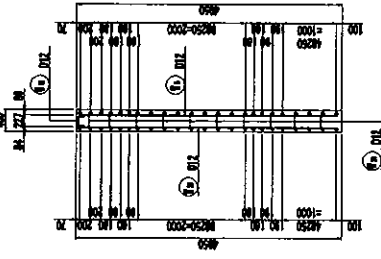
CROSS SECTION 3



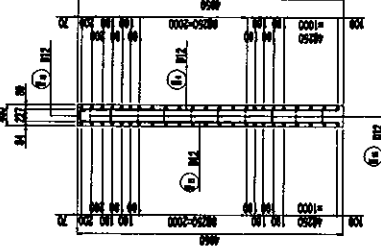
CROSS SECTION 4



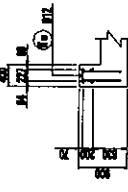
CROSS SECTION 5



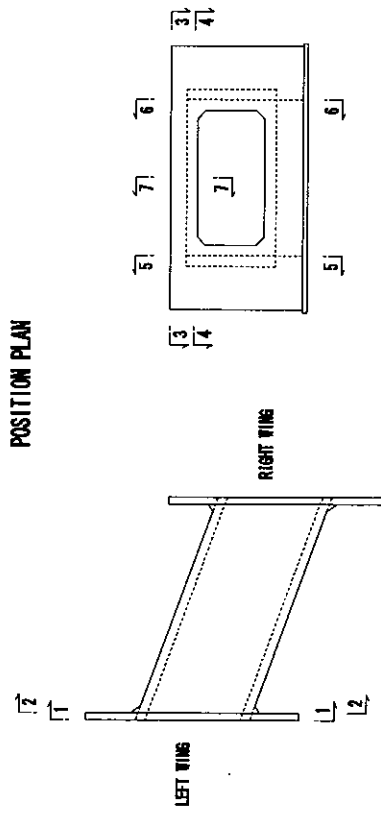
CROSS SECTION 6



CROSS SECTION 7



POSITION PLAN



MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NINJY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

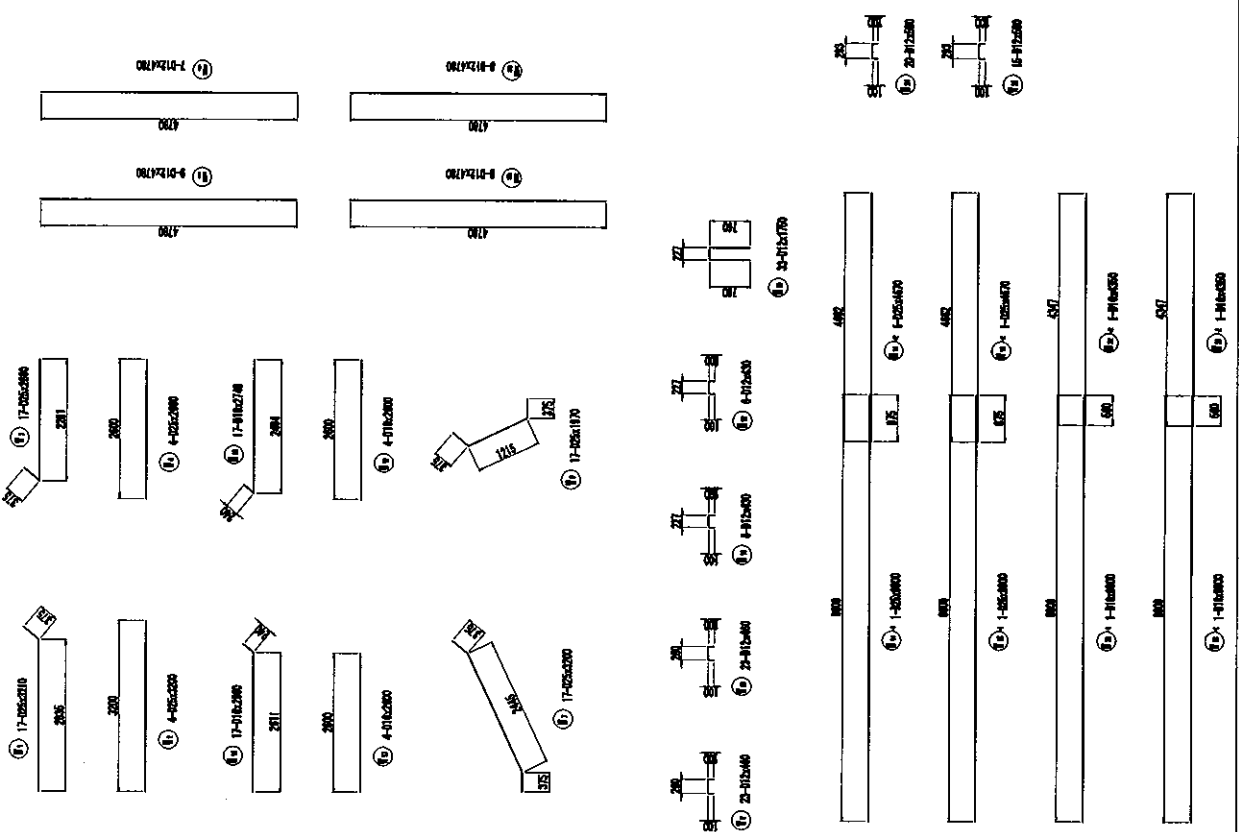
TITLE:  
NO.2 BOX ARRANGEMENT OF BAR  
(WING WALL 1/2)

SCALE:  
1:50

DRAWING No:  
CD-14

**REINFORCEMENT LIST**

MARK	DIA- REIN.	LENGTH (mm)	EACh	WEIGHT/m (kg/m)	WEIGHT/ONE CUT	WEIGHT	REMARKS
1	R5	3310	17	3.85	12.350	214.1	
2	"	3200	4	"	12.500	48.4	
3	"	2600	17	"	16.541	281.1	
4	"	3000	4	"	10.800	43.2	
5	R12	4700	9	0.688	4.395	39.2	
6	"	4700	7	"	4.305	30.1	
7	"	3200	17	3.85	12.500	214.1	
8	"	1870	17	"	7.565	128.9	
9	R12	400	22	0.888	2.400	21.1	
10	"	400	23	"	3.408	30.4	
11	"	450	8	"	0.362	2.9	
12	"	450	6	"	0.272	2.1	
13	"	1750	23	"	1.854	61.3	
14	R5	3000	1	3.85	26.100	26.1	
15	"	4700	1	"	17.800	17.8	
16	"	3000	1	"	36.000	36.0	
17	"	4670	1	"	17.800	17.8	
18	"	2600	17	1.58	4.519	76.8	
19	"	2600	4	"	4.104	16.4	
20	"	2700	17	"	4.229	71.9	
21	"	2600	4	"	4.108	16.4	
22	R12	4700	9	0.688	4.205	38.2	
23	"	4700	8	"	4.245	34.0	
24	R12	4000	1	1.58	12.600	12.6	
25	"	4000	1	"	8.673	8.6	
26	R5	3000	1	"	12.600	12.6	
27	R12	500	20	0.888	0.444	8.9	
28	"	500	15	"	0.444	6.7	
						<b>1382.8 kg</b>	



MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

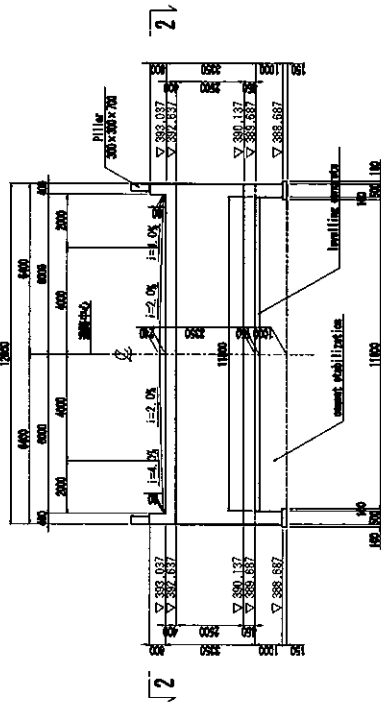
BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

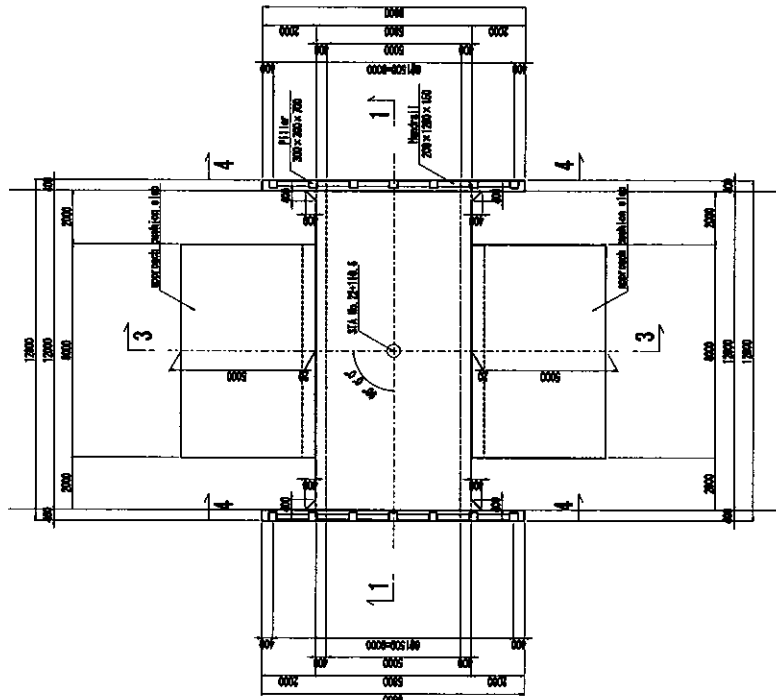
TITLE:  
**NO.2 BOX ARRANGEMENT OF BAR  
(WING WALL 2/2)**

SCALE:  
**1:50**

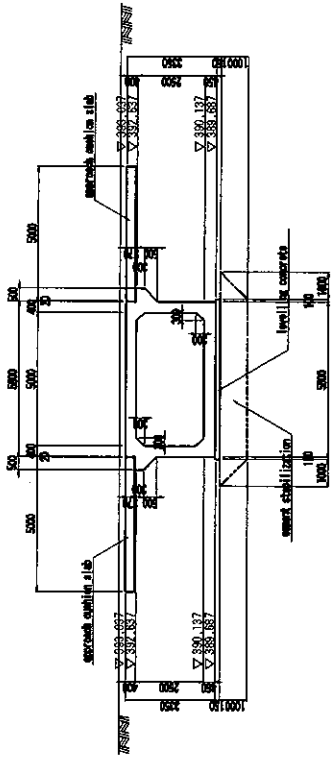
DRAWING NO:  
**CD-15**



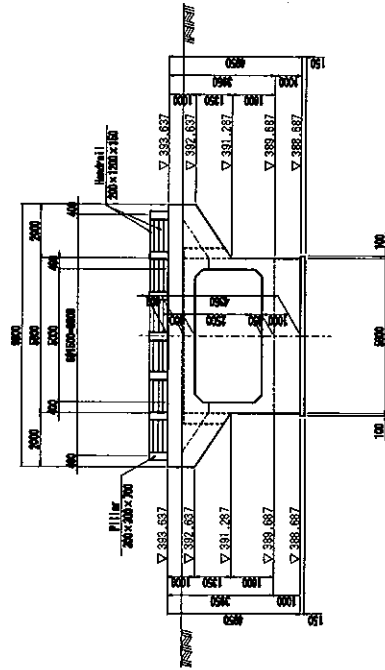
SECTION 1



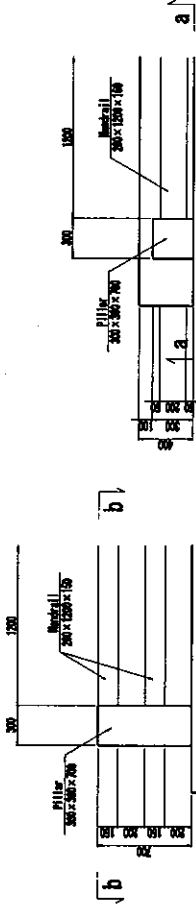
SECTION 2



SECTION 3



SECTION 4



SECTION a

SECTION b

A detail 1:20

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NINNY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

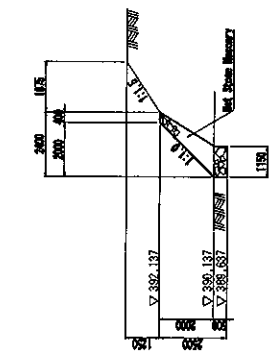
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE:  
GENERAL ARRANGEMENT OF  
BOX CULVERT NO.3

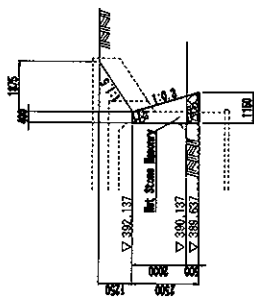
SCALE:  
1:100

DRAWING NO:  
CD-16

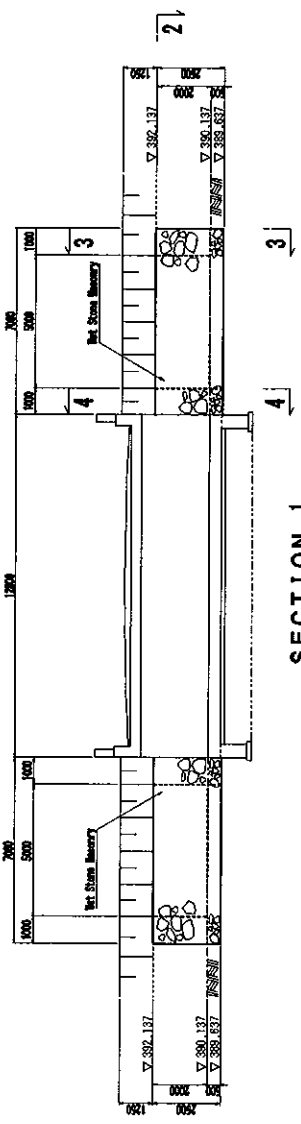
Rv.



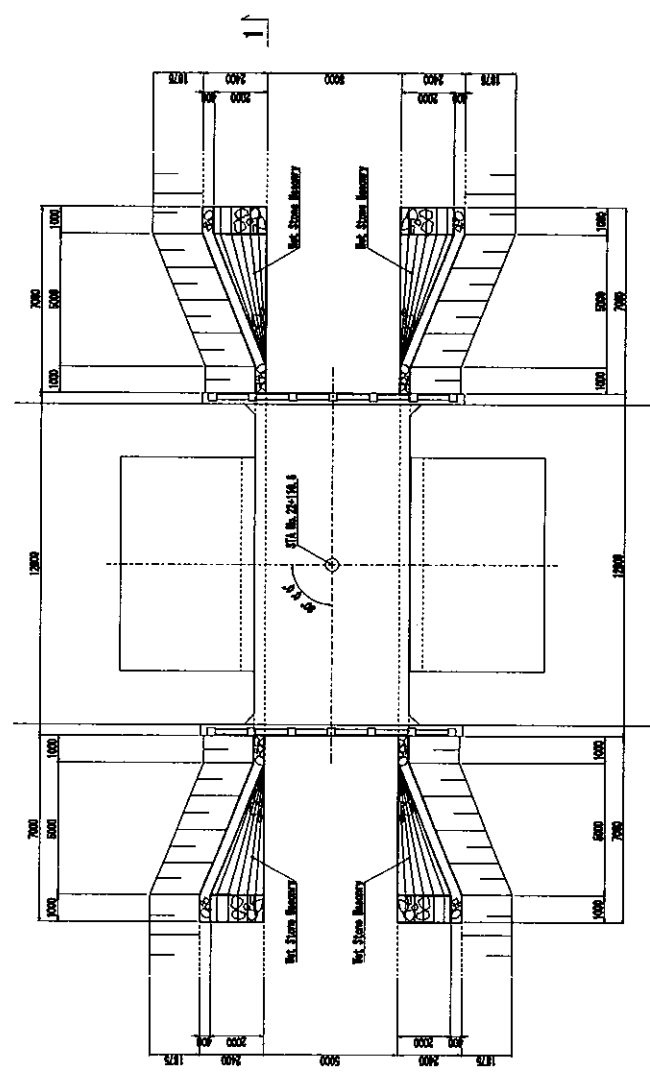
SECTION 3



SECTION 4



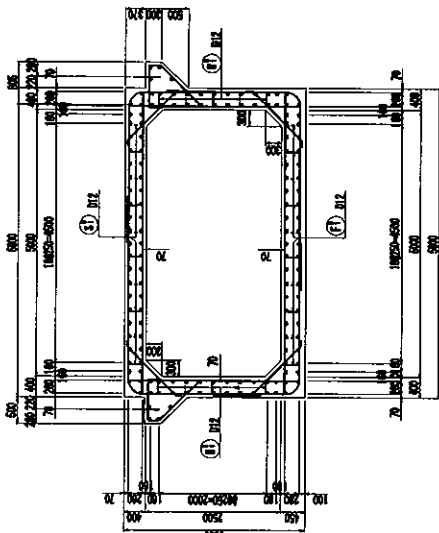
SECTION 1



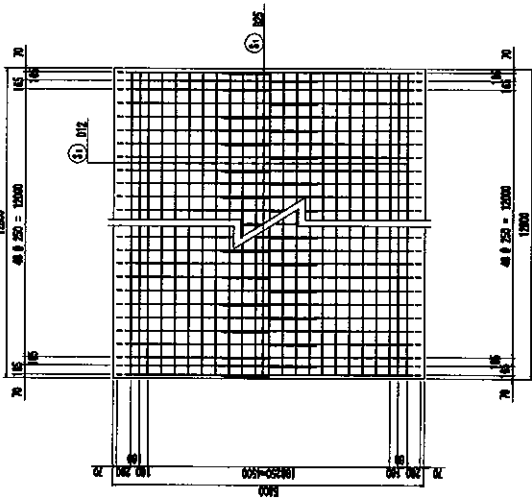
SECTION 2

MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO., LTD	TITLE	DRAWING NO:
			GENERAL ARRANGEMENT OF WET STONE MASONRY	CD-17
			SCALE:	Rv
			1:100	

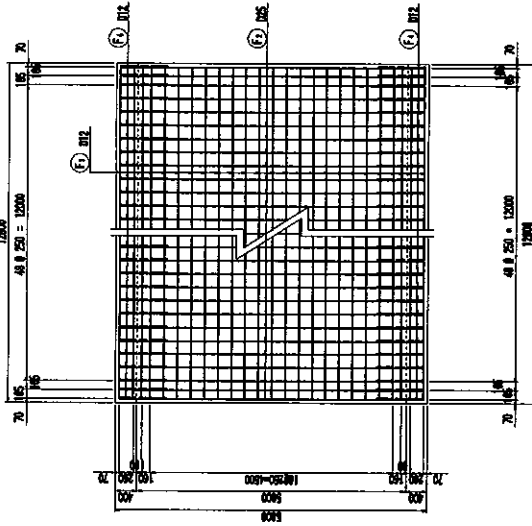
**CROSS SECTION**  
the main body



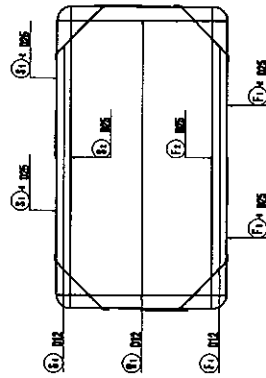
**CROSS SECTION 1**



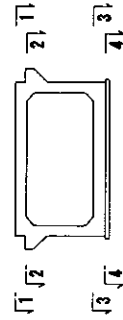
**CROSS SECTION 3**



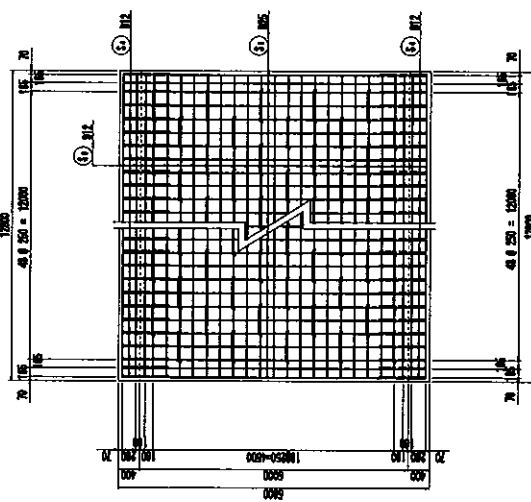
**A reinforcing bar group plan**  
the main body



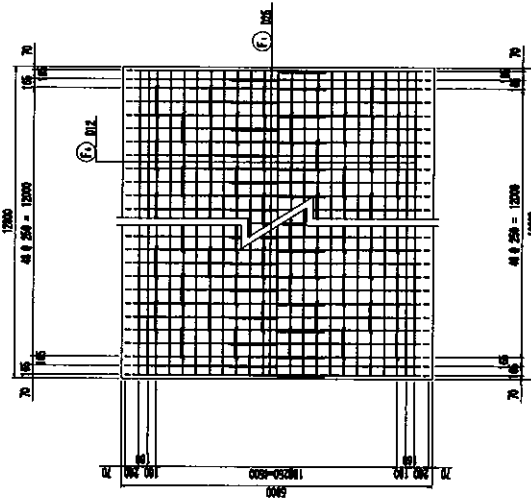
**POSITION PLAN**



**CROSS SECTION 2**



**CROSS SECTION 4**



MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

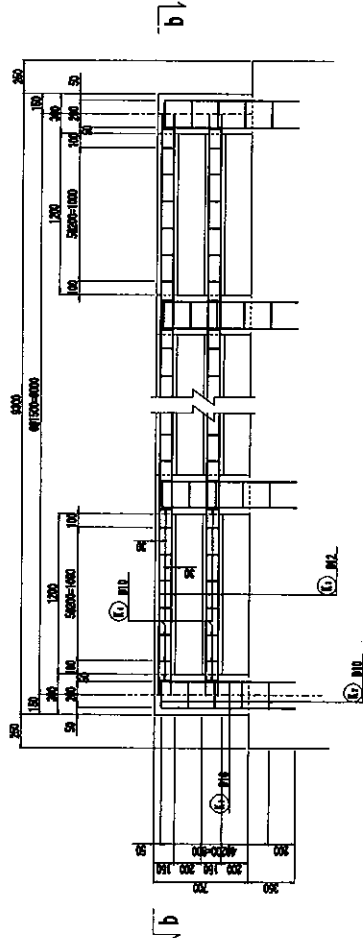
TITLE:  
**NO.3 BOX ARRANGEMENT OF BAR  
(BOX CULVERT 1/3)**

SCALE:  
**1:50**

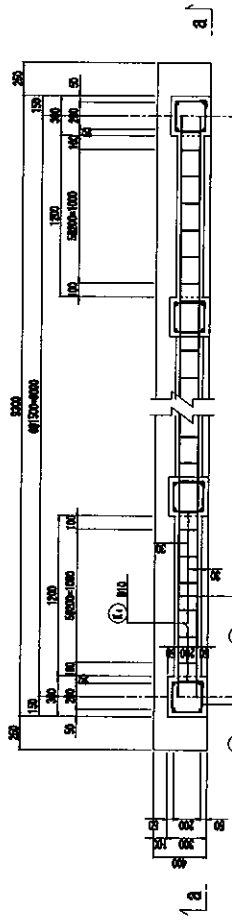
DRAWING NO:  
**CD-18**

Rv

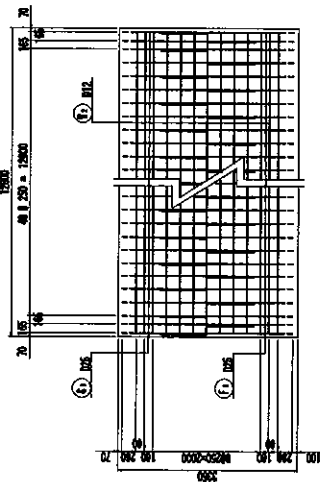
handrail detail  
S- 1:20  
SECTION a



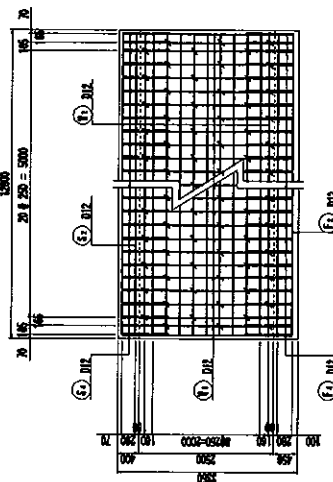
SECTION b



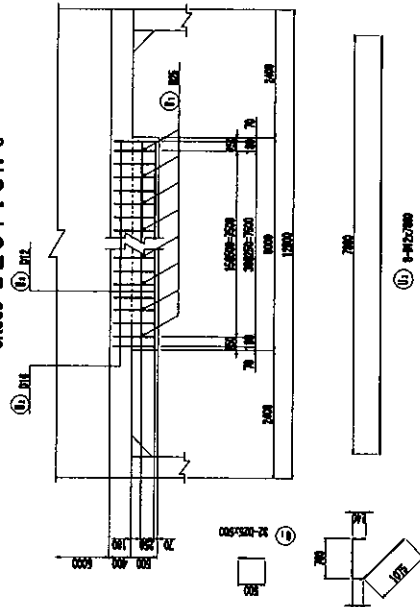
CROSS SECTION 1



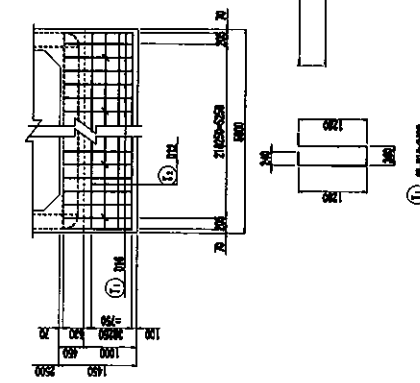
CROSS SECTION 2



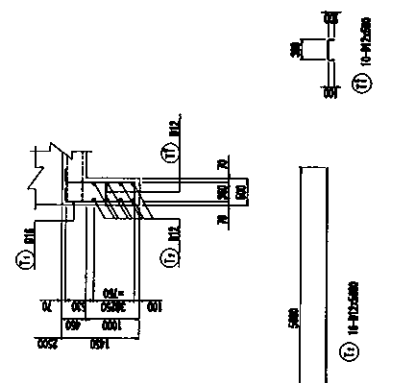
CROSS SECTION 3



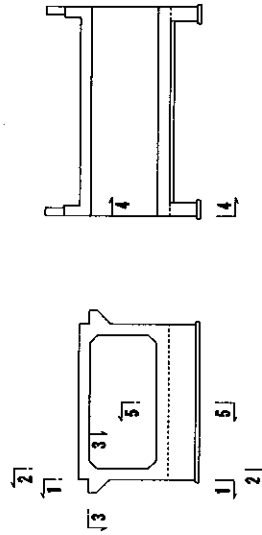
CROSS SECTION 4



CROSS SECTION 5



POSITION PLAN



MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DEGIN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE:  
NO.3 BOX ARRANGEMENT OF BAR  
(BOX CULVERT 2/3)

SCALE:  
1:50

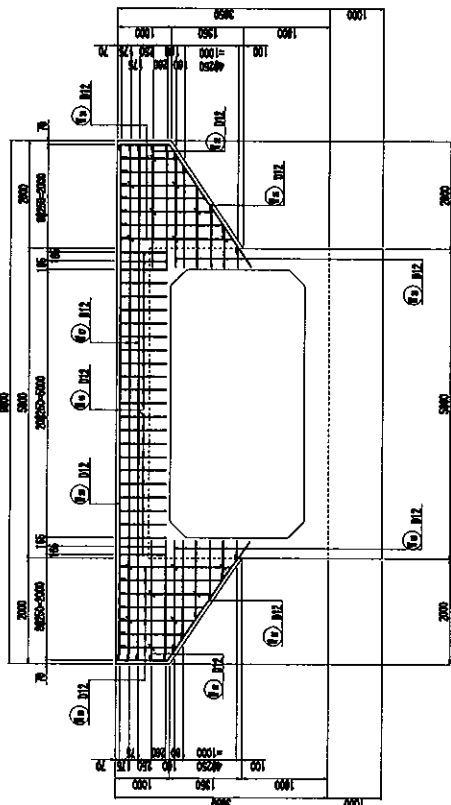
DRAWING No:  
CD-19

Rv

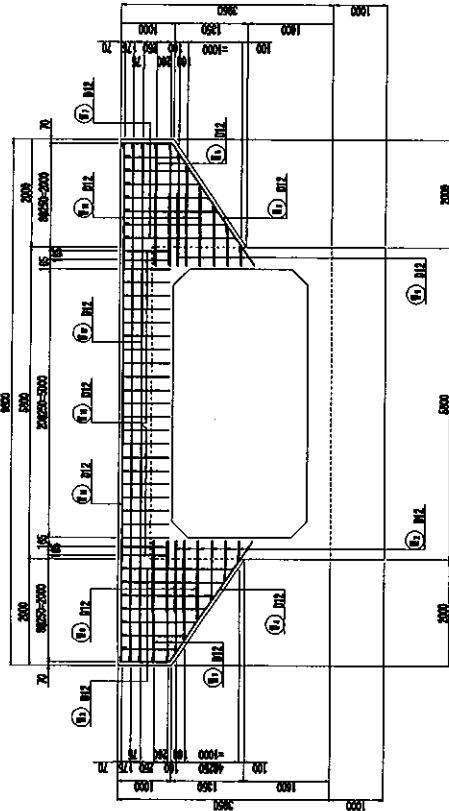




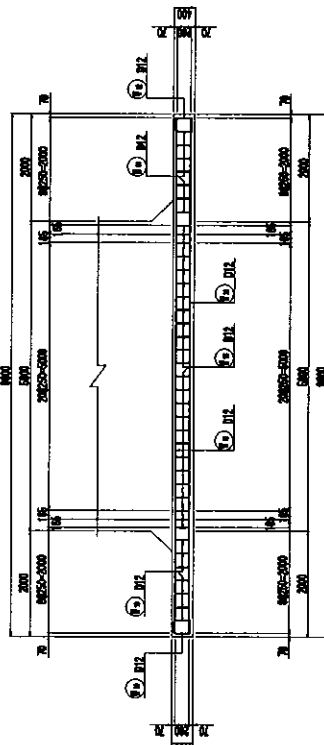
CROSS SECTION 1



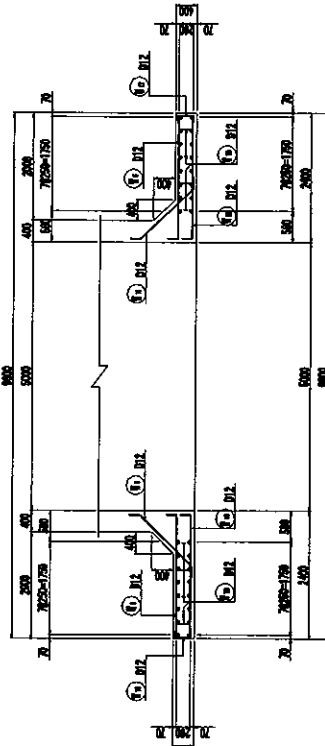
CROSS SECTION 2



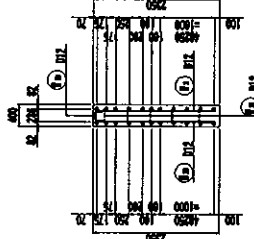
CROSS SECTION 3



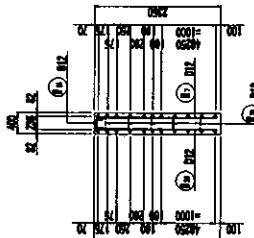
CROSS SECTION 4



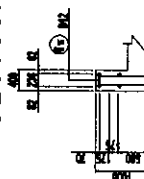
CROSS SECTION 5



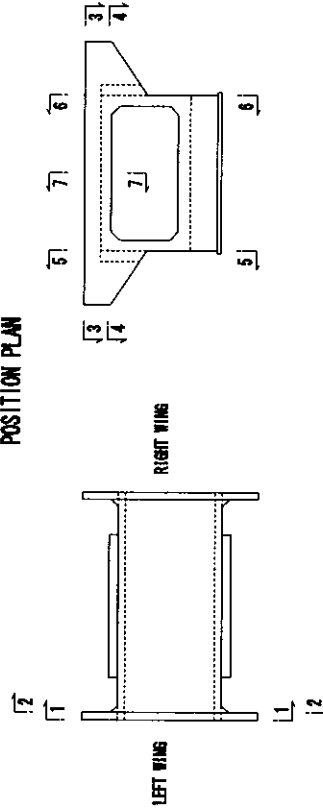
CROSS SECTION 6



CROSS SECTION 7



POSITION PLAN



MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NININY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

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KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE:  
NO.3 BOX ARRANGEMENT OF BAR  
(WING WALL 1/2)

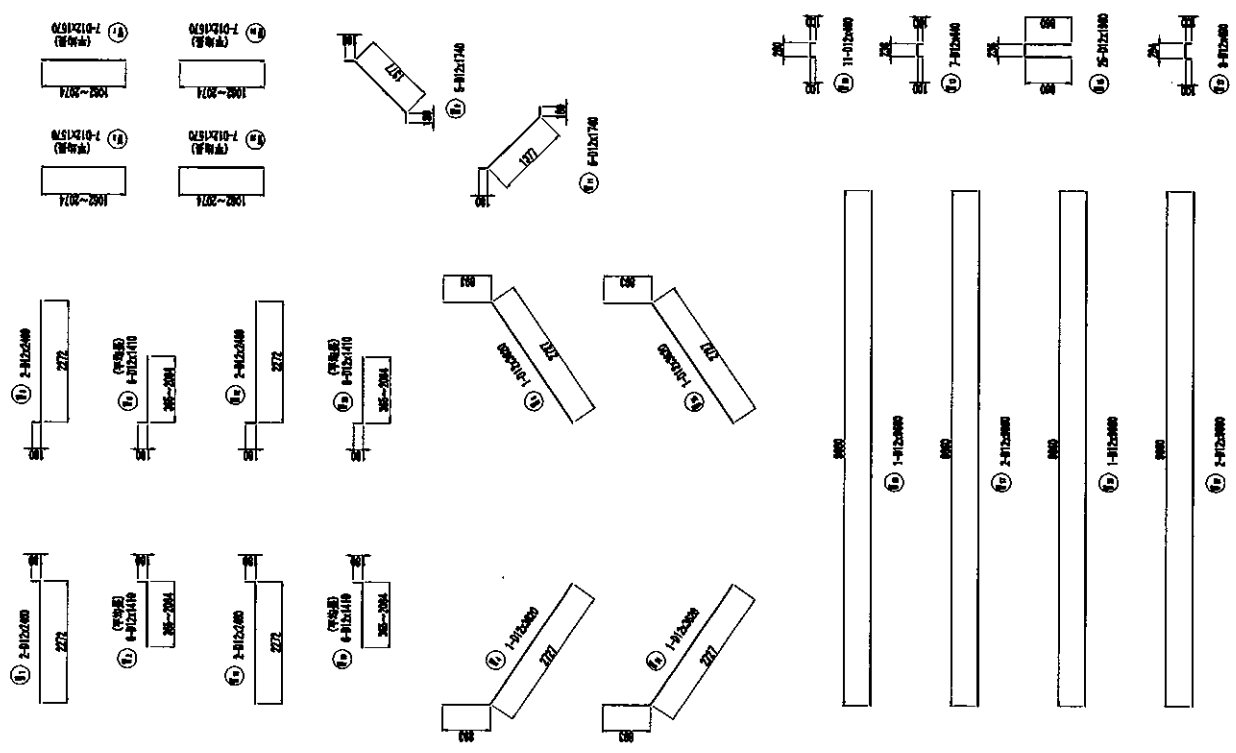
SCALE:  
1:50

DRAWING NO:  
CD-21

Rv

REINFORCEMENT LIST

BAR NUMBER	LENGTH (mm)	FAÇE	REINFT/m (kg)	REINFT/NO (kg)	REINFT	REMARKS
1	2400	2	0.888	2.184	4.4	
2	1410	6		1.292	7.5	(W)
3	1570	7		1.294	8.8	(W)
4	2000	1		3.215	3.2	
5	2400	2		2.188	4.4	
6	1410	6		1.292	7.5	(W)
7	1570	7		1.294	8.8	(W)
8	2000	1		3.215	3.2	
9	1700	5		1.546	7.7	
10	480	11		0.488	4.3	
11	2100	5		1.546	7.7	
12	480	11		0.488	4.3	
13	480	7		0.261	2.7	
14	1000	25		1.748	43.0	
15	900	1		8.678	8.6	
16	2400	2		2.184	4.4	
17	1410	4		1.292	7.5	(W)
18	1570	7		1.294	8.8	(W)
19	2000	1		3.215	3.2	
20	2400	2		2.184	4.4	
21	1410	6		1.292	7.5	(W)
22	1570	7		1.294	8.8	(W)
23	2000	1		3.215	3.2	
24	2400	2		2.184	4.4	
25	480	8		0.488	4.3	
26	480	8		0.488	4.3	
27	222.9	kg	x	2	=	445.8 kg
28	222.9	kg	x	2	=	445.8 kg



MINISTRY OF TRANSPORT  
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JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

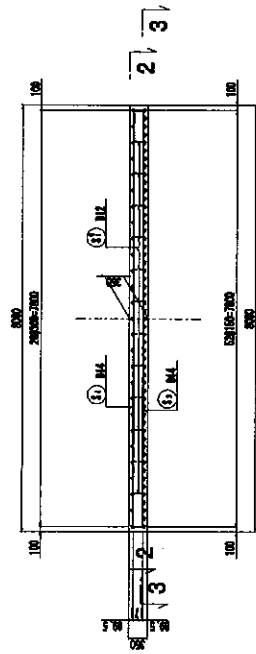
TITLE:  
NO.3 BOX ARRANGEMENT OF BAR  
(WING WALL 2/2)

SCALE:  
1:50

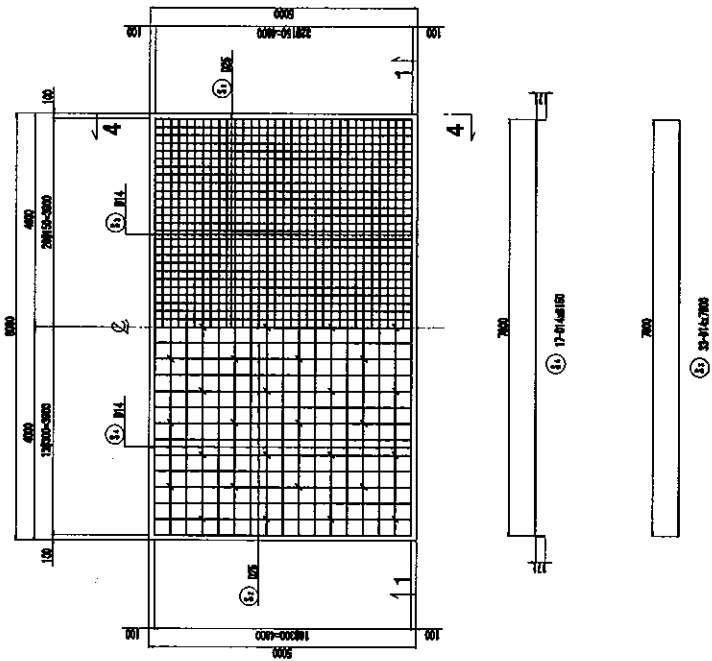
DRAWING NO:  
CD-22

REV.

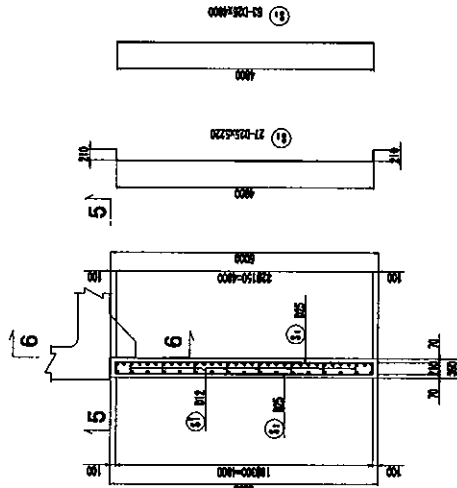
SECTION 1



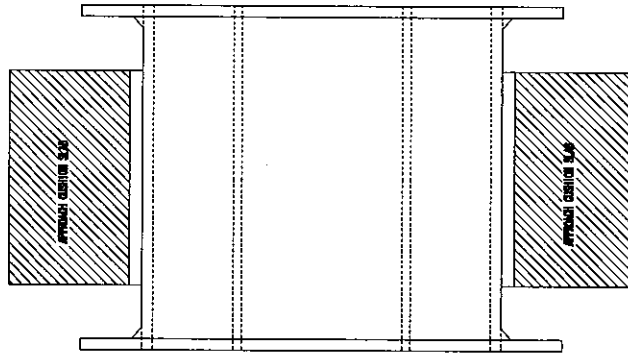
SECTION 2 SECTION 3



SECTION 4



POSITION PLAN



MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NIINYI PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

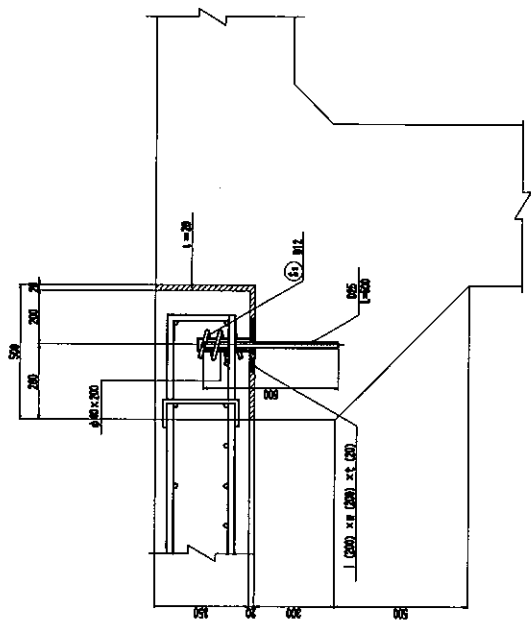
TITLE:  
APPROACH CUSHION SLAB 1/2  
(NO.1 AND NO.3 BOX)

SCALE:  
1:50

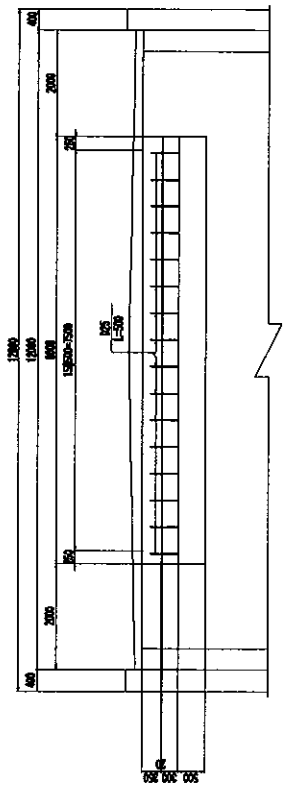
DRAWING NO:  
CD-23

Rv.

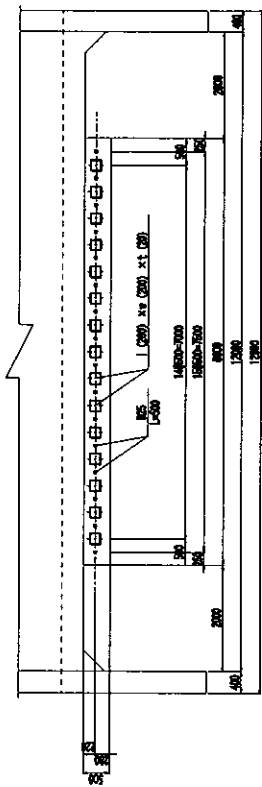
DETAILS SCALE 1:10



SECTION 5



SECTION 6



REINFORCEMENT LIST

(SEE APPROACH CUSHION SLAB ONLY)

MARK	DIAMETER (mm)	EACH	REINFORCEMENT (kg)	REINFORCEMENT (kg)	TOTAL (kg)
S.1	R05	480	3.160	18.480	19.4
	R11	27	25.077	542.8	
	R14	24	1.210	8.480	211.5
	R18	17	1.882	97.7	
	R22	18	0.888	43.8	15.8
					2914.8 kg
S.2	R12	60	0.188	0.465	25.8
					25.8 kg
R05	1522.0 kg	x	2	=	3044.0 kg
R11	578.2 kg	x	2	=	1156.4 kg
R12	54.4 kg	x	2	=	108.8 kg
	2055.6 kg	x	2	=	4111.2 kg

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BASIC DESIGN ON THE PROJECT FOR  
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IN REPUBLIC OF TAJIKISTAN

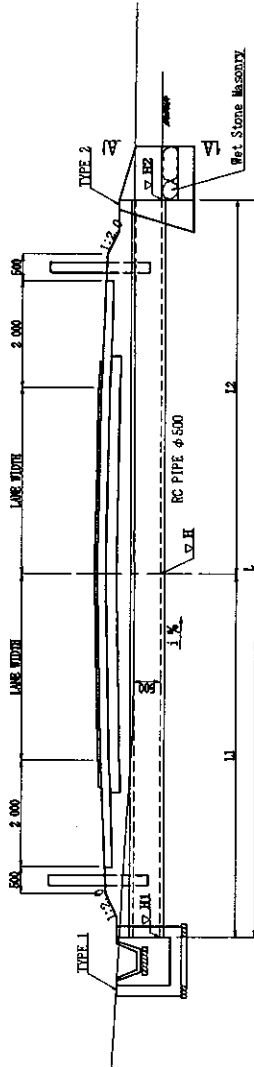
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE:  
APPROACH CUSHION SLAB 2/2  
(NO.1 AND NO.3 BOX)

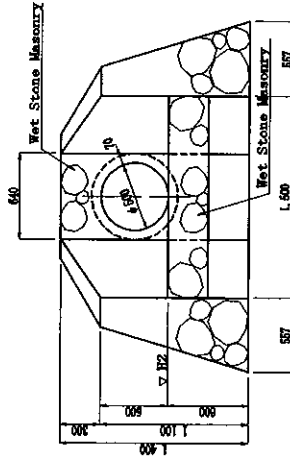
SCALE:  
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DRAWING NO:  
CD-24

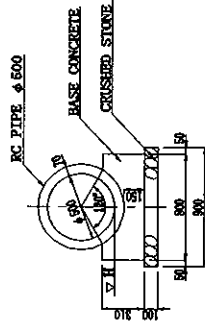
Rv.



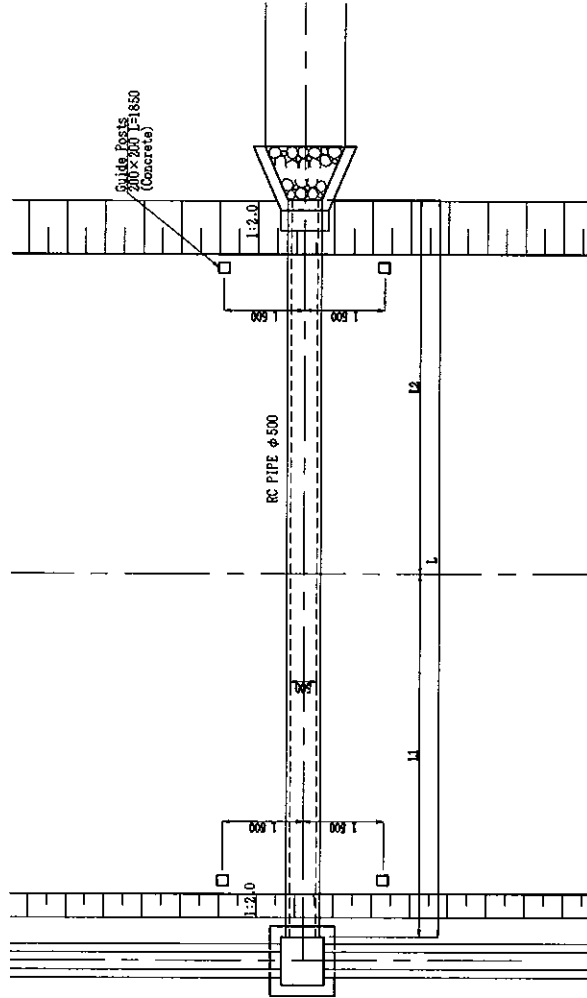
PROFILE S=1:50



SECTION A-A S=1:20



CROSS SECTION S=1:20



PLAN S=1:50

DIMENSION TABLE (FOR NEW)

STATION	QUALITY	D	H	H1	H2	I	L	L1	L2	TYPE 1	TYPE 2
7+200.0	RC	φ 500	369.82	H	H	0	13.83	6.90	7.03	B9-8-10	STANDARD RC φ 500
7+600.0	RC	φ 500	368.78	H	H	0	13.00	6.37	6.63	B9-8-10	STANDARD RC φ 500
8+160.0	RC	φ 500	367.47	H	H	0	14.95	7.63	7.12	A9-8-8	STANDARD RC φ 500
8+386.2	RC	φ 500	367.80	H	H	0	15.27	7.41	7.86	A9-8-8	STANDARD RC φ 500
8+640.0	RC	φ 500	368.66	H	H	0	14.76	7.68	7.17	A9-8-8	STANDARD RC φ 500
10+040.0	RC	φ 500	368.13	H	H	0	14.23	6.78	7.46	B9-8-12	STANDARD RC φ 500
10+380.0	RC	φ 500	367.90	368.404	367.177	7.97	15.39	6.32	9.07	B9-8-10	STANDARD RC φ 500
10+620.0	RC	φ 500	367.65	367.816	367.468	2.63	13.63	6.32	7.31	B9-8-10	STANDARD RC φ 500

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

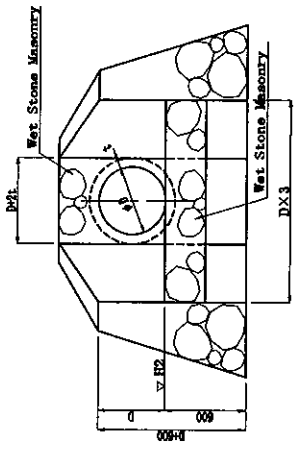
BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NINUY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

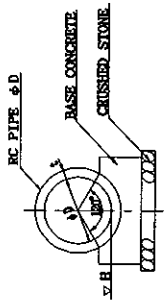
TITLE  
DRAINAGE ARRANGEMENT  
(7+200-10+520)

SCALE :  
AS  
SHOWN

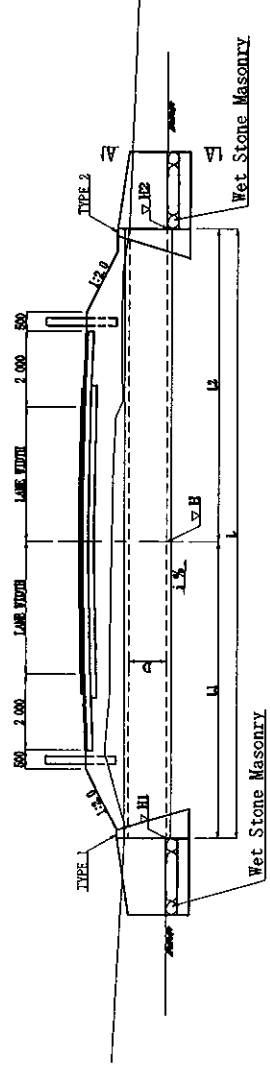
DRAWING No.  
CD-25



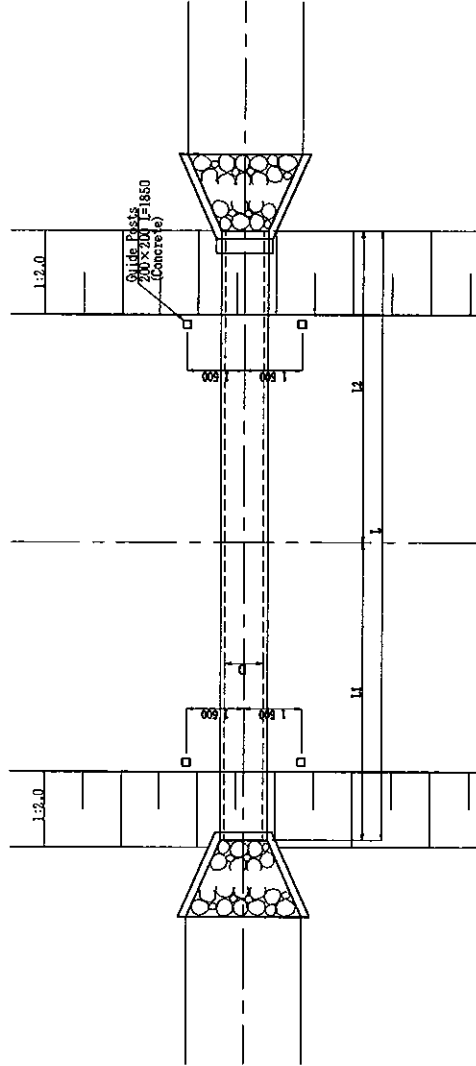
SECTION A-A (NON SCALE)



CROSS SECTION (NON SCALE)



PROFILE S=1:70

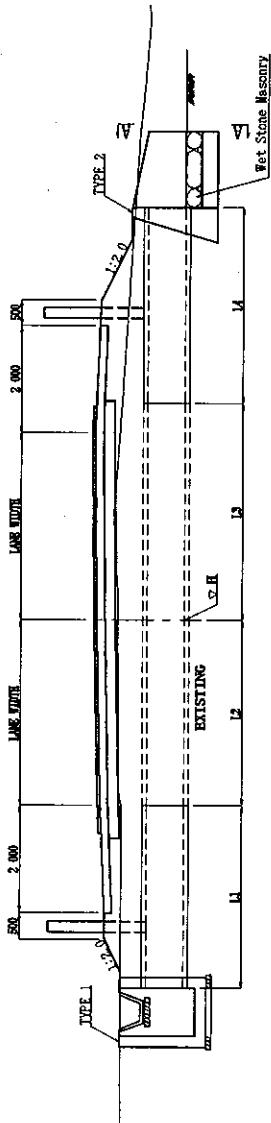


PLAN S=1:70

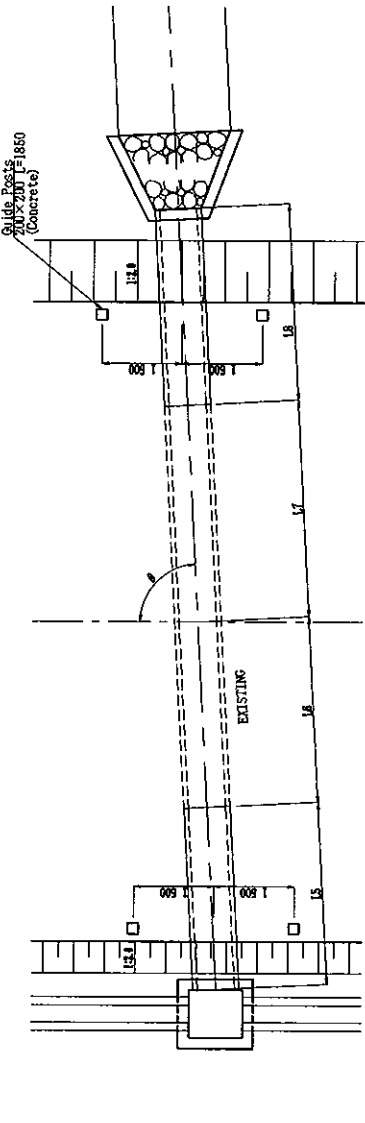
DIMENSION TABLE (FOR NEW)

STATION	QUALITY	D1	H	H1	H2	I	L	L1	L2	TYPE 1	TYPE 2
0+097.5	RC	φ 700	386.00	H	H	0	39.00	15.46	23.54	STANDARD RC φ 700	STANDARD RC φ 700
0+221.3	RC	φ 450	386.80	H	H	0	15.78	7.88	8.10	STANDARD RC φ 450	STANDARD RC φ 450
0+296.0	RC	φ 500	386.50	H	H	0	15.42	7.62	7.80	STANDARD RC φ 500	STANDARD RC φ 500
0+386.5	RC	φ 450	386.60	H	H	0	14.26	6.90	7.46	STANDARD RC φ 450	STANDARD RC φ 450
0+604.4	RC	φ 500	384.30	H	H	0	15.03	7.36	7.67	STANDARD RC φ 500	STANDARD RC φ 500
0+673.0	RC	φ 500	384.30	H	H	0	18.47	9.24	9.23	STANDARD RC φ 500	STANDARD RC φ 500
0+700.0	RC	φ 500	384.40	H	H	0	18.08	9.04	9.04	STANDARD RC φ 500	STANDARD RC φ 500
0+930.0	RC	φ 500	383.60	H	H	0	13.47	6.84	6.63	STANDARD RC φ 500	STANDARD RC φ 500
2+210.0	RC	φ 500	380.86	380.911	380.806	0.764	13.77	6.63	7.14	STANDARD RC φ 500	STANDARD RC φ 500
2+592.0	RC	φ 500	380.28	H	H	0	12.72	6.43	6.30	STANDARD RC φ 500	STANDARD RC φ 500
3+080.0	RC	φ 500	379.40	H	H	0	13.31	6.65	6.66	STANDARD RC φ 500	STANDARD RC φ 500
6+240.0	RC	φ 500	369.61	H	H	0	14.35	6.98	7.37	STANDARD RC φ 500	STANDARD RC φ 500
9+280.0	RC	φ 500	387.48	H	H	0	14.56	7.37	7.19	STANDARD RC φ 500	STANDARD RC φ 500
9+490.0	RC	φ 500	389.20	H	H	0	13.90	6.50	7.40	NON STANDARD	STANDARD RC φ 500
11+820.0	RC	φ 500	367.54	H	H	0	13.08	6.20	6.88	STANDARD RC φ 500	STANDARD RC φ 500
12+100.0	RC	φ 500	387.63	H	H	0	13.96	6.20	7.76	NON STANDARD	STANDARD RC φ 500
15+080.0	RC	φ 1000	404.42	403.343	406.133	-0.87	18.13	10.91	7.22	STANDARD RC φ 1000	STANDARD RC φ 1000
17+580.0	RC	φ 1000	474.70	H	H	0	16.14	7.83	8.31	STANDARD RC φ 1000	STANDARD RC φ 1000
21+000.0	RC	φ 1000	406.00	H	H	0	20.85	12.15	8.70	STANDARD RC φ 1000	STANDARD RC φ 1000
21+540.0	RC	φ 1000	402.90	H	H	0	26.45	16.66	10.89	STANDARD RC φ 1000	STANDARD RC φ 1000

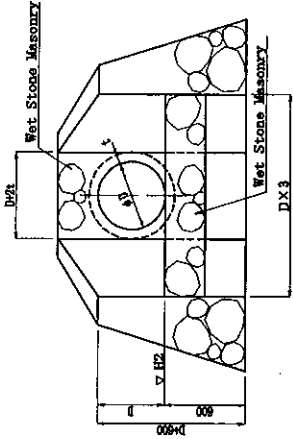
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NINNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	SCALE:	DRAWING No.:
			DRAINAGE ARRANGEMENT (0+97.5-71+540)	AS SHOWN	CD-26



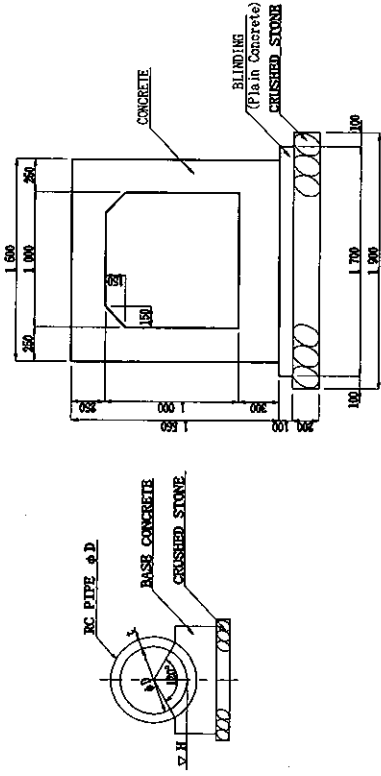
PROFILE S=1:50



PLAN S=1:50



SECTION A-A (NON SCALE)



CROSS SECTION (NON SCALE)

DIMENSION TABLE (FOR EXTENSION)

STATION	QUALITY	D1	D2	θ	H	L1	L2 Existing	L3 Existing	L4	L5	L6 Existing	L7 Existing	L8	TYPE 1	TYPE 2
6+892.5	RC	φ 1000		89.173	370.56	1.19	6.15	4.85	1.61	1.19	6.15	4.85	1.62	A9-13-13	STANDARD RC φ 1000
8+906.5	METAL	φ 400		-60.039	371.25	CUTL. 12	8.46	∞	∞	CUTL. 29	9.76	∞	∞	A9-7-10	
7+911.8	METAL	φ 120		86.727	369.35	2.20	5.30	3.09	3.83	2.21	5.31	3.09	3.54	A9-4-6	STANDARD RT φ 120
8+116.6	RC	φ 300		84.658	367.94	2.86	4.28	6.13	0.72	2.88	4.30	6.16	0.72	B9-5-9	NON STANDARD
8+122.1	RC	1000		55.788	376.38	3.95	2.99	3.89	3.23	4.78	3.62	4.71	3.90	C9-16-15	NON STANDARD
8+710.1	RC	φ 200		58.351	369.23	1.46	6.01	3.35	4.35	1.71	7.06	3.94	6.11	B9-4-7	STANDARD RC φ 200
9+640.0	RC	φ 700		87.014	370.00	3.41	3.60	4.05	2.56	3.62	3.50	4.06	2.57	B9-10-14	NON STANDARD
10+623.2	METAL	φ 230		89.325	368.80	0.18	6.13	∞	∞	0.18	6.13	∞	∞	B9-4-6	

MINISTRY OF TRANSPORT  
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IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:  
DRAINAGE ARRANGEMENT  
(6-897.5-10-623.2)

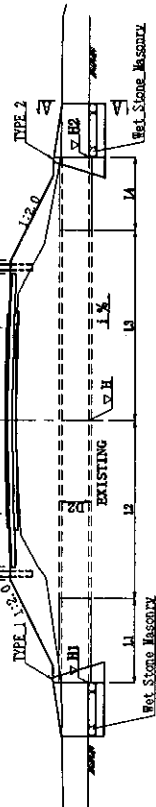
SCALE:  
AS  
SHOWN

DRAWING NO:  
CD-27  
R/W

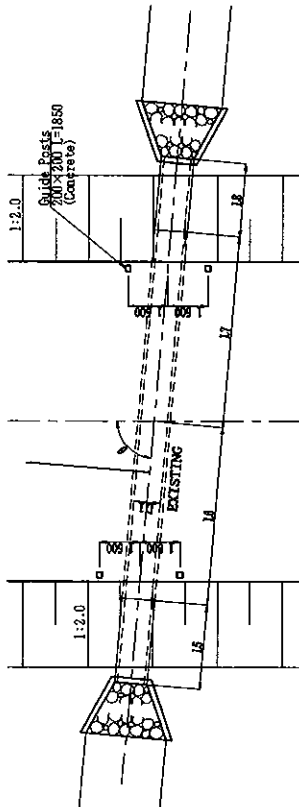


DIMENSION TABLE (FOR EXTENSION)

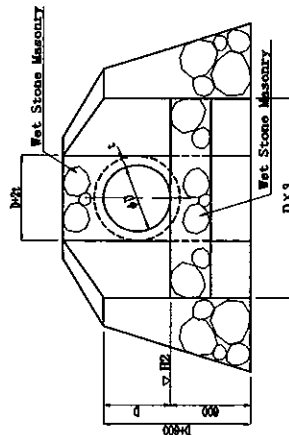
STATION	QUALITY	D1	D2	θ	R	H1	H2	I	L1	L2	L3	L4	L5	L6	L7	L8	TYPE 1	TYPE 2
2+200.0	METAL	φ 450		83.705	380.48	H	H	0	3.89	3.74	5.60	2.04	3.61	3.78	5.63	2.06	STANDARD RT φ 150	STANDARD RT φ 150
3+130.0	METAL	φ 500		86.882	378.50	H	H	0	5.00	4.77	4.35	5.00	5.00	4.77	4.35	5.00		
3+416.6	RC	φ 400		89.728	377.40	H	H	0		10.95	8.64			10.95	9.64			
4+481.6	METAL	φ 180		88.787	375.79	H	H	0	3.09	3.11	6.02	1.19	3.09	3.11	6.02	1.19	NON STANDARD	NON STANDARD
4+492.3	METAL	φ 180		86.176	373.31	H	H	0		8.47	4.00	2.47		8.48	4.01	2.48	STANDARD RT φ 150	STANDARD RT φ 150
5+177.2	RC	φ 500		90	371.60	H	H	0	3.80	3.34	4.77	3.80	3.80	3.34	4.77	1.90	NON STANDARD	NON STANDARD
5+280.0	RC	φ 500		83.856		H	H	0		8.71	20.44			6.75	20.58			
5+418.4	RC	φ 300		85.308	371.64	H	H	0	0.47	6.01	5.08	1.54	0.47	6.03	6.10	1.65	NON STANDARD	NON STANDARD
5+418.9	RC	φ 400				H	H	0										
6+166.7	RC	φ 800		86.727	368.77	H	H	0	1.85	5.79	5.15	1.71	1.66	5.80	5.16	1.71	NON STANDARD	NON STANDARD
6+204.6	RC	φ 400		81.166	369.74	H	H	0	1.54	6.17	5.27	1.75	1.68	6.25	5.33	1.77	STANDARD RC φ 100	NON STANDARD
8+977.0	RC	φ 200		87.685	369.25	H	H	0	0.40	6.61	4.37	3.15	0.40	6.62	4.38	3.16	NON STANDARD	STANDARD RC φ 200
9+340.0	RC	800	600	80.901	367.01	H	H	0		7.49	8.87	2.87		8.60	6.73	3.23		NON STANDARD
9+464.2	RC	φ 200		88.631	369.70	H	H	0	0.40	6.64	∞		0.40	6.65	∞		STANDARD RC φ 200	
11+120.0	RC	φ 200		87.728	369.40	H	H	0		9.48	6.89			9.49	6.90			
11+441.0	RC	φ 500		87.611	368.87	H	H	0		8.70	6.80			8.70	6.80			
11+454.0	METAL	φ 210		87.651	369.53	H	H	0		10.24	7.31	0.89		10.25	7.32	0.89		STANDARD RT φ 210
11+4827.6	METAL	φ 180		82.004	369.40	H	H	0		10.48	8.85	0.79		10.48	8.84	0.94		STANDARD RT φ 180
11+4922.8	RC	φ 280		88.418	368.71	H	H	0		6.14	4.68	2.78		6.15	4.68	2.73		NON STANDARD
12+497.7	RC	φ 900		78.428	367.90	H	H	0	4.31	5.81	3.62	6.36	4.48	6.00	3.74	6.57	STANDARD RC φ 900	STANDARD RC φ 900
13+423.5	RC	φ 380		82.348	367.63	H	H	0	3.38	5.28	4.61	4.54	3.39	5.33	4.65	4.58	STANDARD RC φ 380	STANDARD RC φ 380
14+470.0	RC	φ 1000		88.940	368.20	H	H	0		8.65	6.12	4.16		8.94	5.29	4.20		STANDARD RC φ 1000
14+485.0	RC	φ 1000		85.037	367.10	H	H	0	1.82	5.18	5.00	2.10	1.82	5.18	5.00	2.10	STANDARD RC φ 1000	STANDARD RC φ 1000
15+490.0	RC	φ 1000		89.699	465.90	465.460	465.421	-6.00	4.26	4.76	6.86	1.16	4.26	4.76	6.86	1.16	STANDARD RC φ 1000	STANDARD RC φ 1000
16+182.0	RC	φ 1000		86.948	468.20	H	H	0	2.62	6.71	4.98	2.94	2.62	6.71	4.99	2.94	STANDARD RC φ 1000	STANDARD RC φ 1000
16+477.0	RC	φ 1000		82.320	473.28	H	H	0	1.30	5.68	6.21	1.77	1.32	5.73	6.26	1.79	STANDARD RC φ 1000	STANDARD RC φ 1000
17+165.0	RC	φ 1000		87.874	473.90	H	H	0	3.65	6.89	4.96	3.97	3.65	6.89	4.97	3.67	STANDARD RC φ 1000	STANDARD RC φ 1000
18+423.0	RC	φ 1000		89.028	487.53	488.197	487.406	3.64	1.64	8.54	6.68	2.97	1.64	8.54	6.68	2.97	STANDARD RC φ 1000	STANDARD RC φ 1000
19+231.0	RC	φ 1000		87.682	478.26	H	H	0	1.88	6.20	6.82	2.64	1.88	6.20	6.83	2.64	STANDARD RC φ 1000	STANDARD RC φ 1000
19+776.1	RC	φ 1000		86.779	450.78	H	H	0	2.34	5.44	4.99	2.51	2.34	5.45	5.00	2.52	STANDARD RC φ 1000	STANDARD RC φ 1000
20+620.0	RC	φ 1000		88.436	414.02	H	H	0	2.24	6.17	6.30	2.11	2.24	6.18	6.30	2.12	STANDARD RC φ 1000	STANDARD RC φ 1000
22+155.4	RC	φ 1000		88.906	367.04	H	H	0		24.31	17.71			24.39	20.68			
23+424.1	RC	φ 1600		83.385	379.26	H	H	0		36.40	40.08			36.62	40.36			
23+182.0	RC	φ 200		73.296	366.66	H	H	0	2.61	4.12	5.09	2.34	2.73	4.31	5.31	2.44	STANDARD RC φ 200	STANDARD RC φ 200



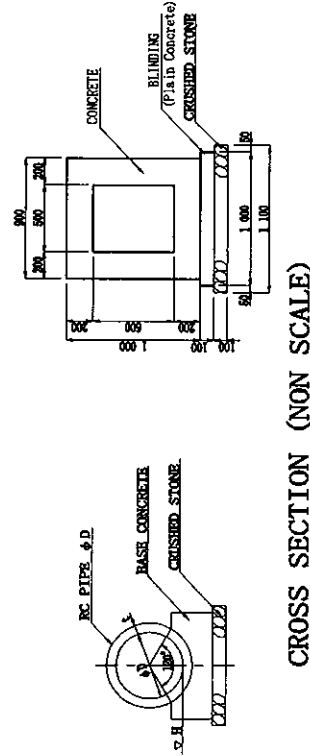
PROFILE S=1:100



PLAN S=1:100



SECTION A-A (NON SCALE)



CROSS SECTION (NON SCALE)

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

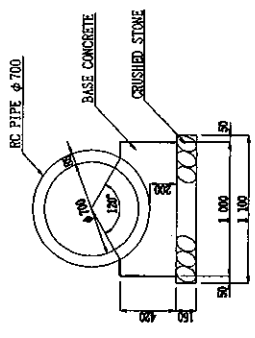
BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

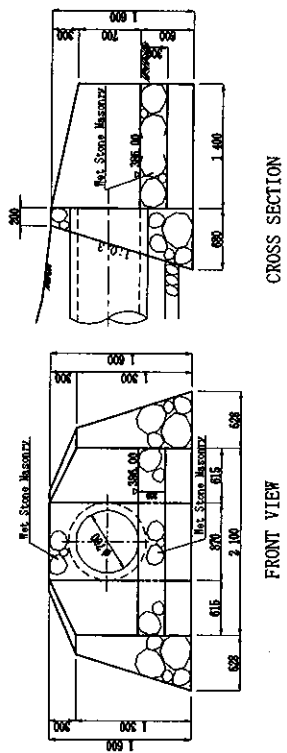
TITLE:  
DRAINAGE ARRANGEMENT  
(2+220-23+182)

SCALE:  
AS  
SHOWN

DRAWING NO:  
CD-28  
Rv.

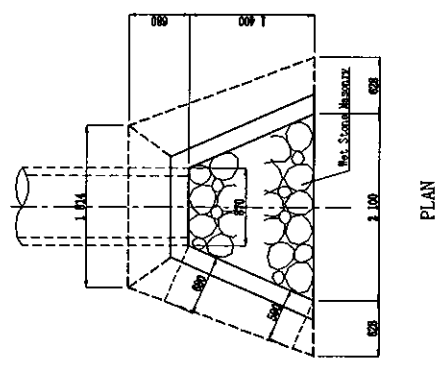


DRAINAGE TYPICAL CROSS SECTION S=1:20

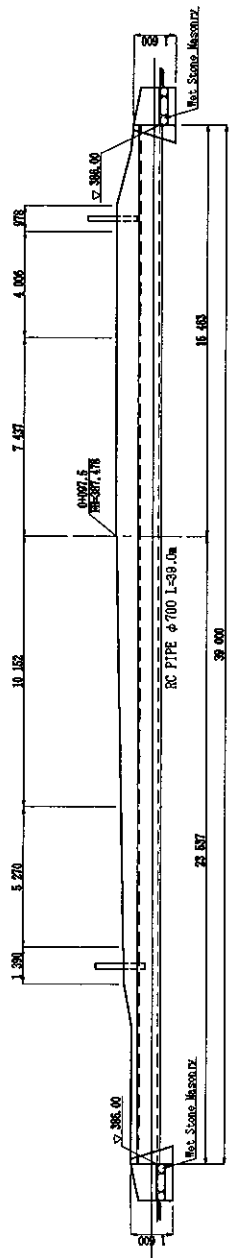


CROSS SECTION

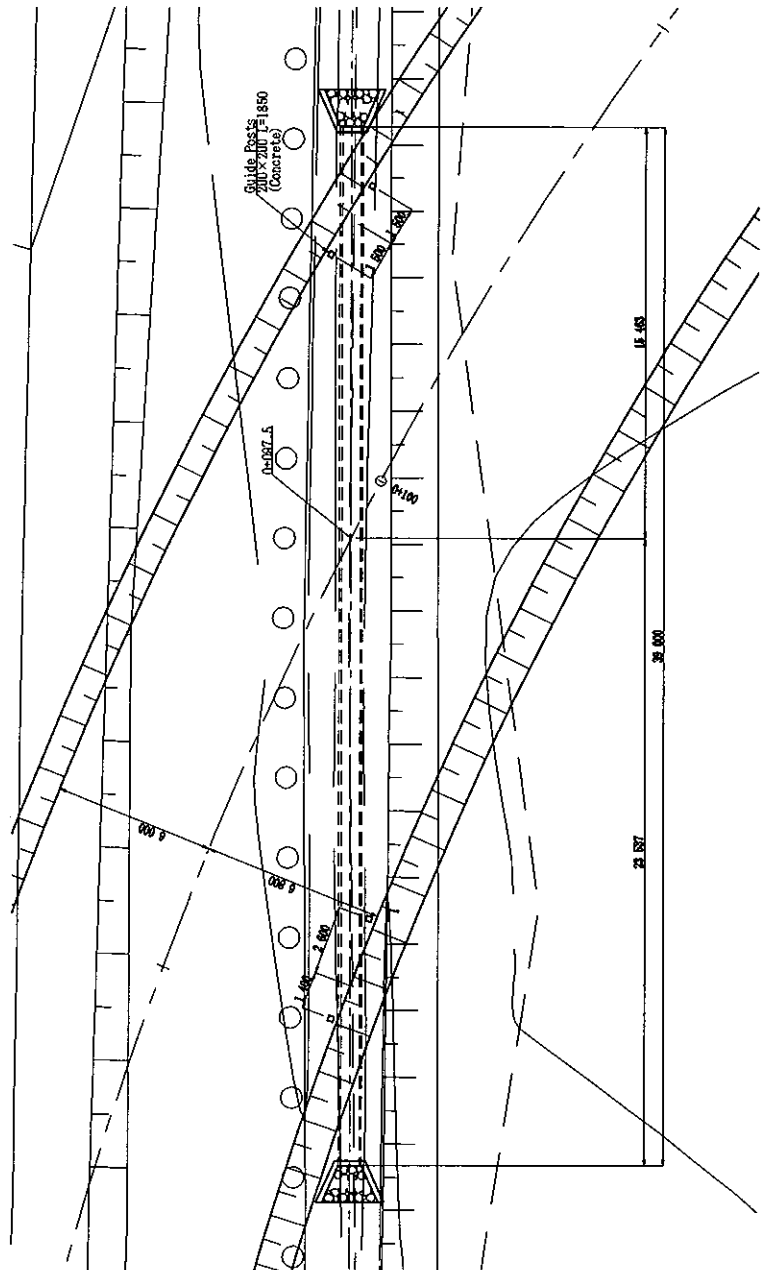
FRONT VIEW



PLAN



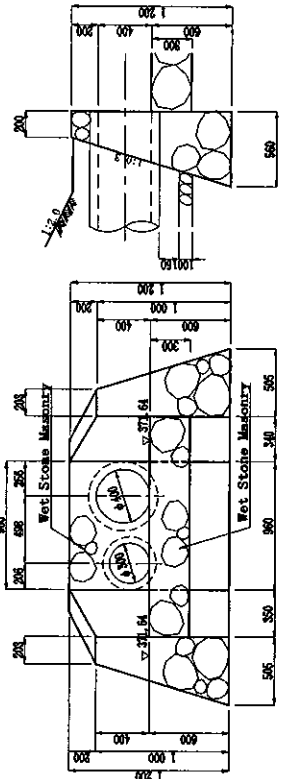
PROFILE S=1:100



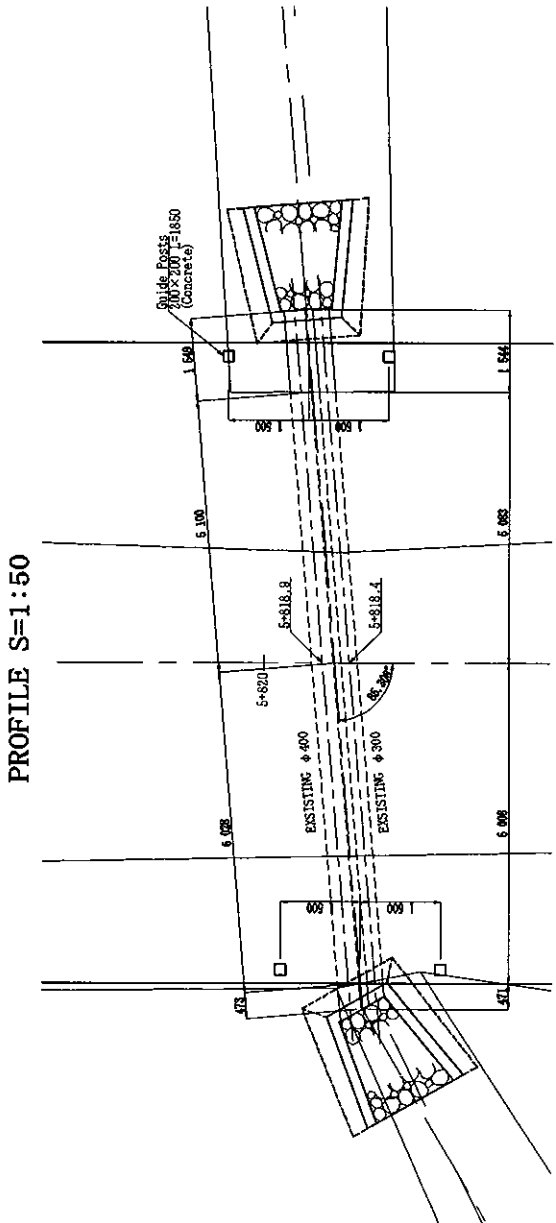
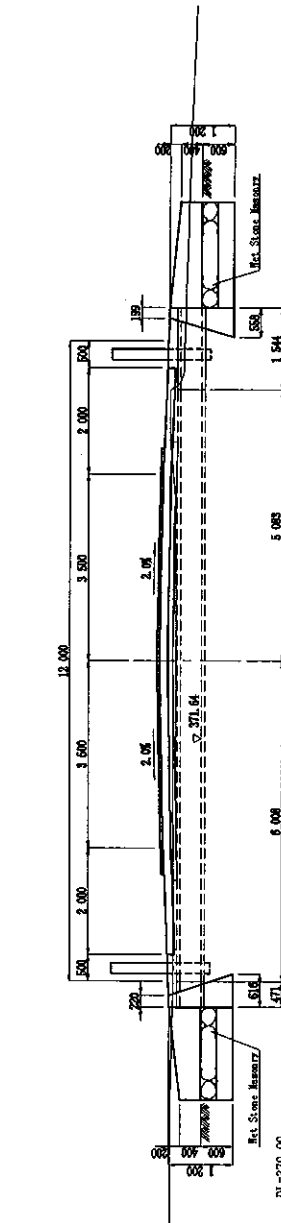
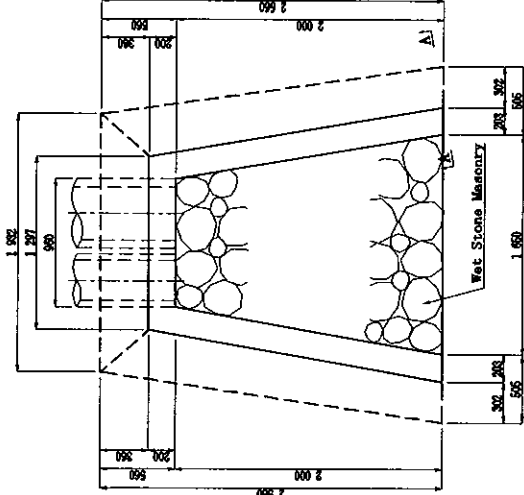
PLAN S=1:100

INLET/OUTLET STRUCTURE FOR PIPE CULVERT S=1:30

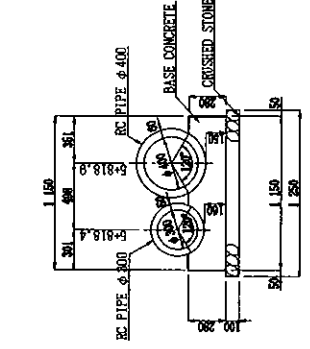
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DEGIN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	OUTLET PLAN (0-97.5)	SCALE:	AS SHOWN	DRAWING NO:	CD-29	REV.
			INLET/OUTLET STRUCTURE FOR PIPE CULVERT S=1:30						



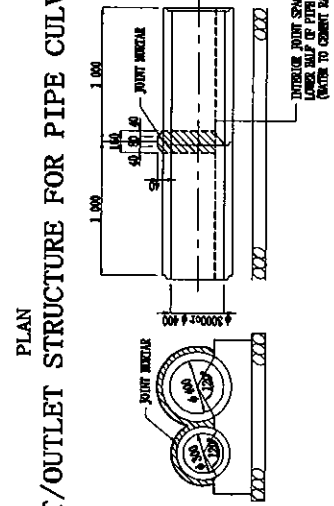
CROSS SECTION



GENERAL CROSS SECTION S=1:20

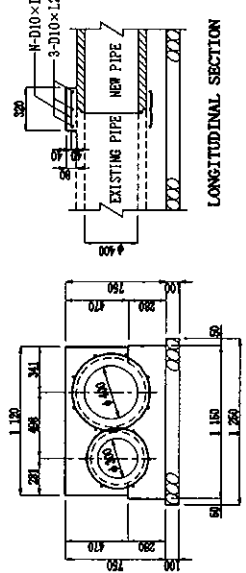


INLET/OUTLET STRUCTURE FOR PIPE CULVERT S=1:20



DIMENSION TABLE

INSIDE DIAMETER	N	L1	L2
300	6	260	1770(±400)
400	8	260	2180(±300)



DETAIL OF PIPE EXTENSION S=1:20

DETAIL OF PIPE CONNECTION JOINT S=1:20

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

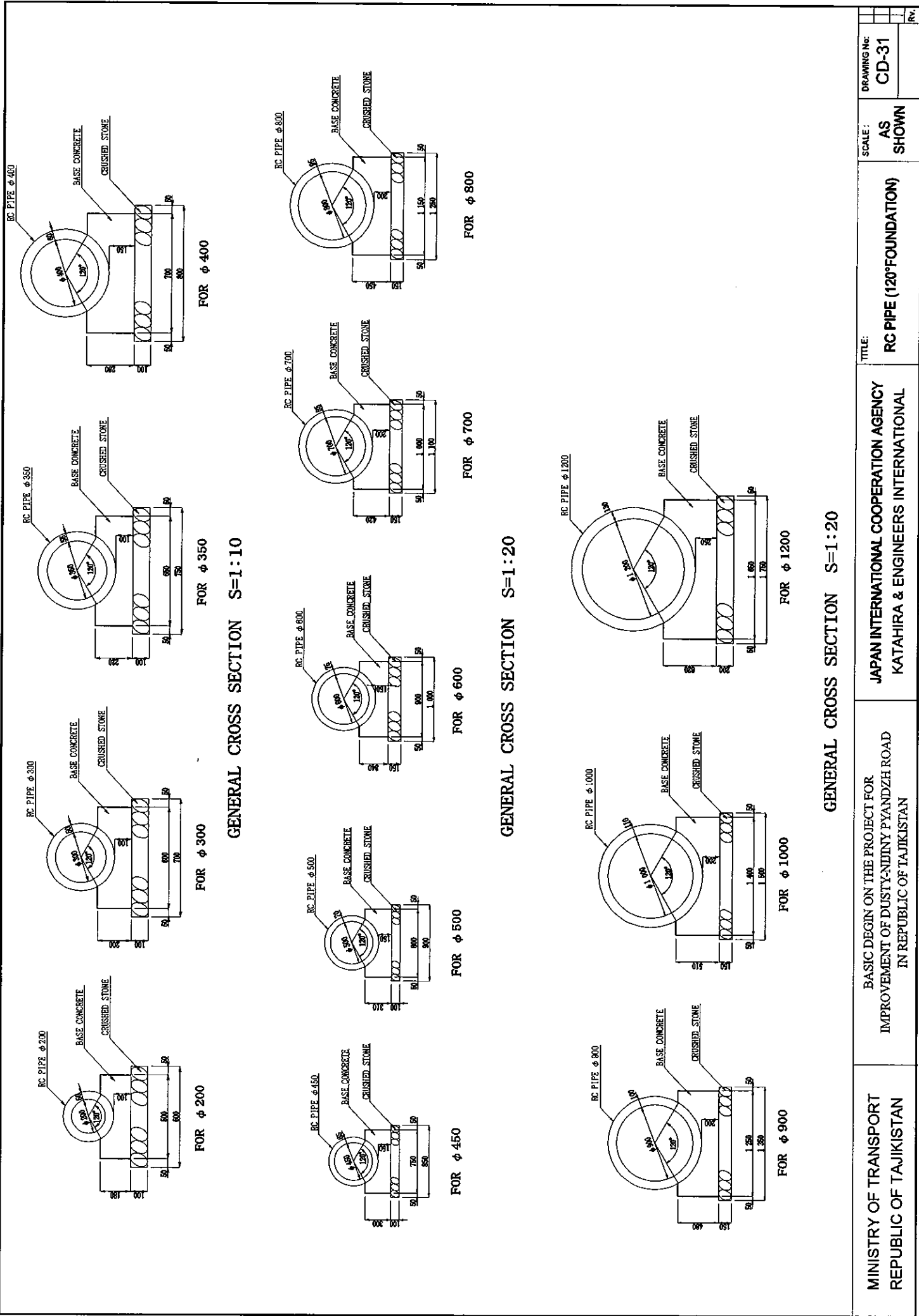
BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:  
OUTLET PLAN  
(5-818.4-5-818.9)

SCALE:  
AS SHOWN

DRAWING No:  
CD-30

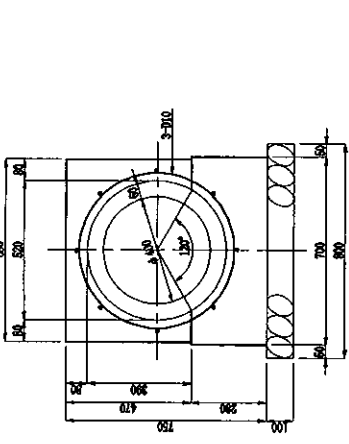


GENERAL CROSS SECTION S=1:10

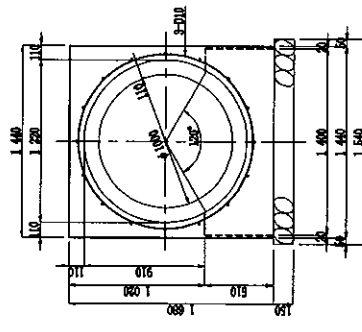
GENERAL CROSS SECTION S=1:20

GENERAL CROSS SECTION S=1:20

MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: <b>RC PIPE (120° FOUNDATION)</b>	SCALE : <b>AS SHOWN</b> DRAWING No : <b>CD-31</b> Rv.
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FOR φ 400

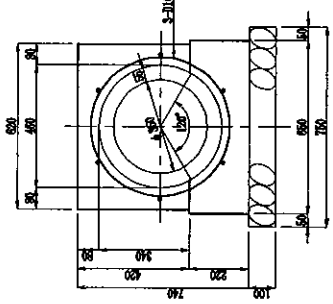


FOR φ 1000

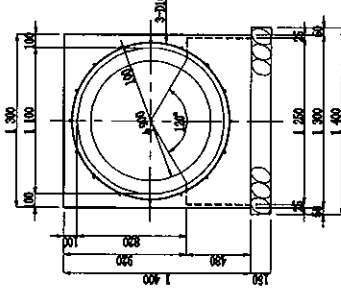
DIMENSION TABLE

INSIDE DIAMETER D	H	L	K	L1	L2
200	80	320	4	280	1480(φ 380)
300	80	320	6	280	1770(φ 480)
350	80	320	8	280	1960(φ 520)
400	80	320	8	280	2150(φ 580)
500	80	320	8	280	2510(φ 700)
700	85	340	10	280	3280(φ 935)
800	95	380	12	320	3870(φ 1085)
900	100	400	16	340	4080(φ 1180)
1000	110	440	18	380	4440(φ 1310)
1200	130	520	20	480	5280(φ 1570)

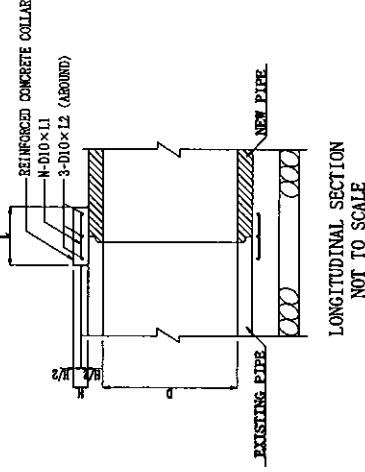
DIMENSION TABLE



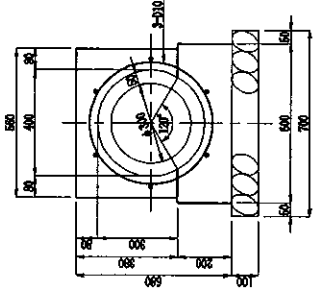
FOR φ 350



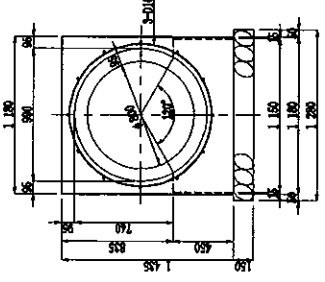
FOR φ 900



LONGITUDINAL SECTION  
NOT TO SCALE

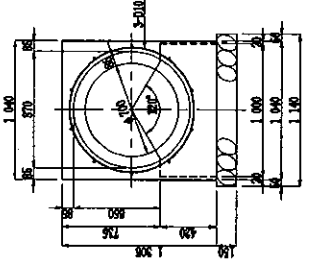


FOR φ 300

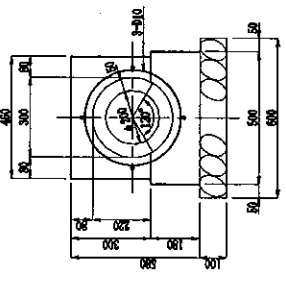


FOR φ 800

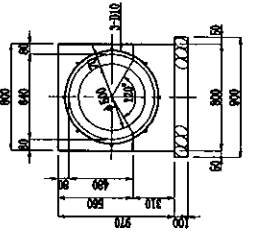
DETAIL OF PIPE EXTENSION S=1:20



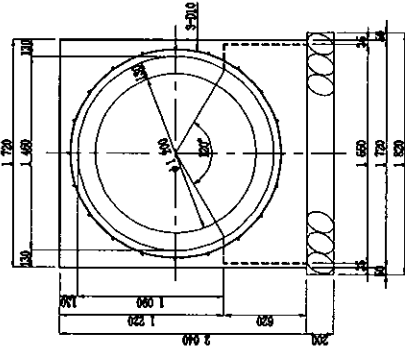
FOR φ 700



FOR φ 200



FOR φ 500



FOR φ 1200

DETAIL OF PIPE EXTENSION S=1:20

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NININ YPVANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

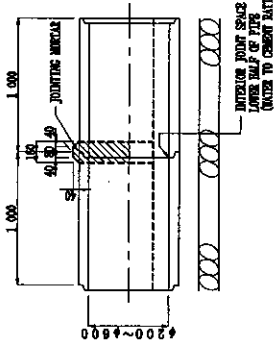
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:  
DETAIL OF PIPE (EXISTING)

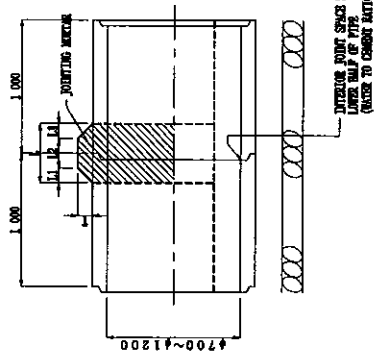
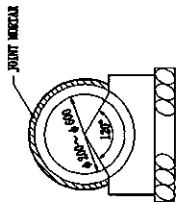
SCALE:  
AS SHOWN

DRAWING NO:  
CD-32

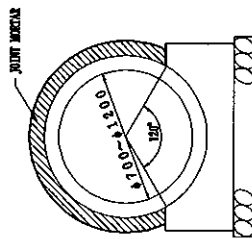
Pv.



FOR  $\phi$  200,  $\phi$  300,  $\phi$  350,  $\phi$  400,  $\phi$  450,  $\phi$  500,  $\phi$  600



FOR  $\phi$  700,  $\phi$  800,  $\phi$  900,  $\phi$  1000,  $\phi$  1200



DIMENSION TABLE

PIPE DIAMETER D	T	L	L1	L2
700	45	180	45	80
800	50	200	50	100
900	50	200	50	100
1000	55	220	55	110
1200	65	280	65	130

DETAIL OF PIPE CONNECTION

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NDINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

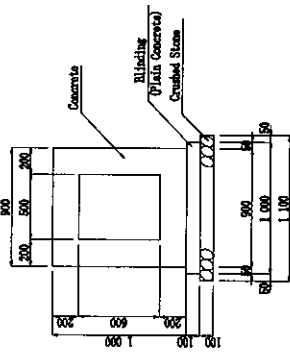
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:  
DETAIL OF PIPE CONNECTION

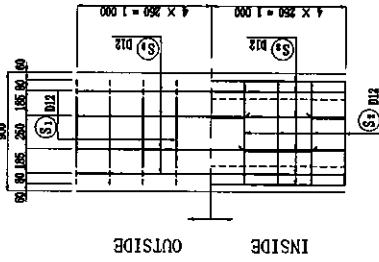
SCALE:  
Non scale

DRAWING No:  
CD-33  
REV.

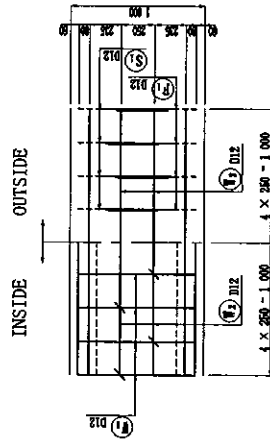
GENERAL DRAWING



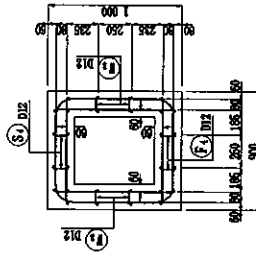
UPPER SLAB



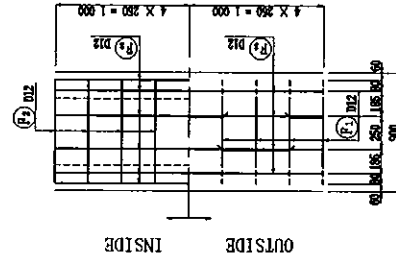
WALL



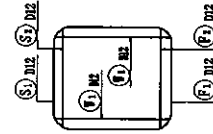
CROSS SECTION



BOTTOM SLAB



PROCESSING OF BAR



Joint Dimension

Size	a (mm)	b (mm)	c (mm)	R (mm)	L (mm)
D12	66	164	230	42	380
D16	75	185	270	46	500
D20	84	236	330	60	630
D22	104	268	370	66	690
D25	122	308	430	78	790
D28	141	349	480	90	880
D32	151	369	540	96	1000

Reinforcing Bars Processing Table

Mark	Form	Size	No.	Length (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	R (mm)
S 1	4	D12	4	1910	536	204	500	486	130
S 2	1	D12	4	760	760				
S 3	1	D12	10	1000	1000				
S 4	3	D12	2	840	104	104	524		
W 1	1	D12	8	860	860				
W 2	1	D12	8	1000	1000				
W 3	2	D12	8	330	101	128			
F 1	4	D12	4	1910	468	204	500	536	130
F 2	1	D12	4	760	760				
F 3	1	D12	10	1000	1000				
F 4	3	D12	2	840	104	104	524		

Reinforcement List

Mark	Size	Length	No.	Weight/m (kg)	Unit Weight (kg)	Weight (kg)	Remarks
S 1	D12	1910	4	0.838	1.898	8.764	
S 2	D12	760	4	0.838	0.675	2.700	
S 3	D12	1000	10	0.838	8.380		
S 4	D12	840	2	0.838	0.635	1.669	
W 1	D12	860	8	0.838	6.704	6.109	
W 2	D12	1000	8	0.838	6.888	7.104	
W 3	D12	330	8	0.838	0.263	2.344	
F 1	D12	1910	4	0.838	1.698	6.764	
F 2	D12	760	4	0.838	0.675	2.700	
F 3	D12	1000	10	0.838	8.380		
F 4	D12	840	2	0.838	0.635	1.669	
Total Weight							55.623

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NDINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:  
BAR ARRANGEMENT OF BOX CULVERT  
(500X600)

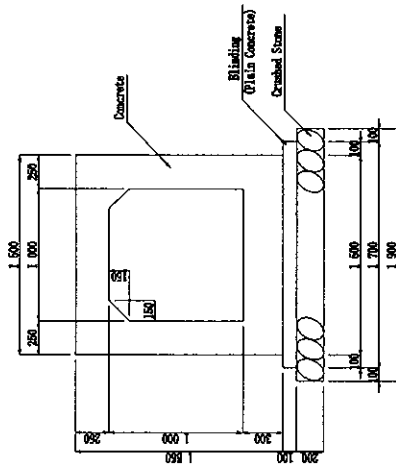
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1:20

DRAWING No:

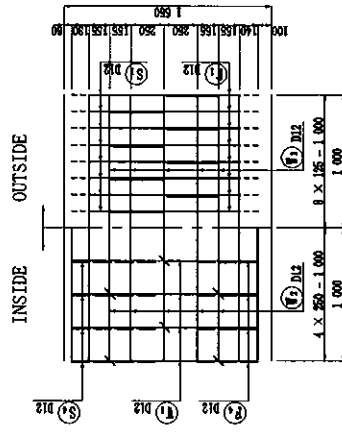
CD-34

Rv.

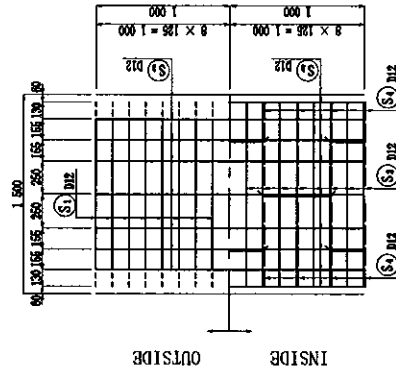
GENERAL DRAWING



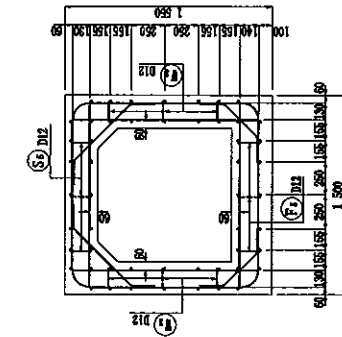
WALL



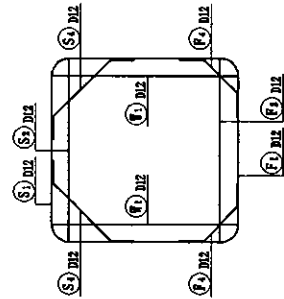
UPPER SLAB



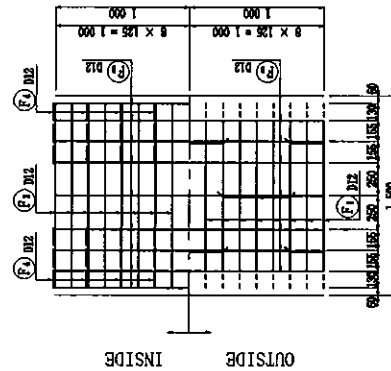
CROSS SECTION



PROCESSING OF BAR



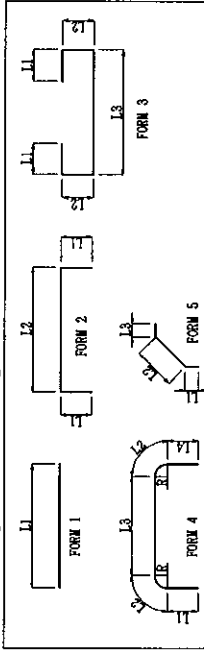
BOTTOM SLAB



Joint Dimension

Size	a (mm)	b (mm)	c (mm)	R (mm)	L (mm)
D12	86	184	230	42	380
D16	76	165	270	48	500
D20	84	238	330	80	630
D22	104	288	370	86	680
D25	122	308	430	78	700
D28	141	349	480	90	800
D32	151	389	540	86	1000

Reinforcing Bars Processing Table



Mark	Form	Size	No.	Length (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H (mm)	R (mm)
S 1	4	D12	8	3040	550	204	1120	862	130	
S 2	1	D12	8	1380	1380					
S 3	1	D12	16	1000	1000					
S 4	5	D12	8	880	160	630				
S 5	3	D12	3	1040	104	154	524			
F 1	1	D12	8	1380	1380					
F 2	1	D12	20	1000	1000					
F 3	2	D12	12	360	101	178				
F 4	4	D12	8	3040	862	204	1120	560	130	
F 5	1	D12	8	1380	1380					
F 6	1	D12	18	1000	1000					
F 7	5	D12	8	750	180	382				
F 8	3	D12	3	1080	104	164	524			

Reinforcement List

Mark	Size	Length	No.	Weight (kg)	Unit Weight (kg/m)	Weight (kg)	Remarks
S 1	D12	3040	8	0.888	2.700	21.800	
S 2	D12	1380	8	0.888	1.225	9.800	
S 3	D12	1000	16	0.888	0.888	14.208	
S 4	D12	880	8	0.888	0.379	3.032	
S 5	D12	1040	3	0.888	0.824	2.472	
F 1	D12	1380	8	0.888	1.234	9.872	
F 2	D12	1000	20	0.888	0.888	17.760	
F 3	D12	360	12	0.888	0.337	4.044	
F 4	D12	3040	8	0.888	2.700	21.800	
F 5	D12	1380	8	0.888	1.225	9.800	
F 6	D12	1000	16	0.888	0.888	14.208	
F 7	D12	750	8	0.888	0.608	4.864	
F 8	D12	1080	3	0.888	0.941	2.823	
Total Weight							140.847

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

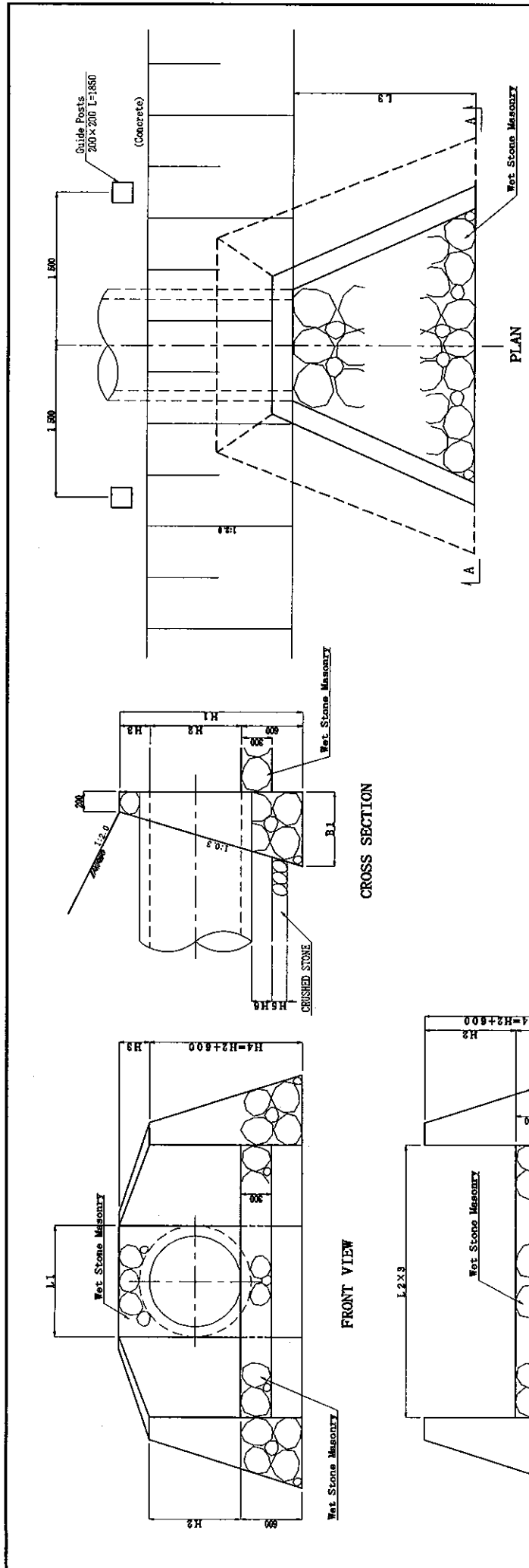
BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:  
BAR ARRANGEMENT OF BOX CULVERT  
(1000X1000)

SCALE:  
1:20  
DRAWING No:  
CD-35  
Rv.





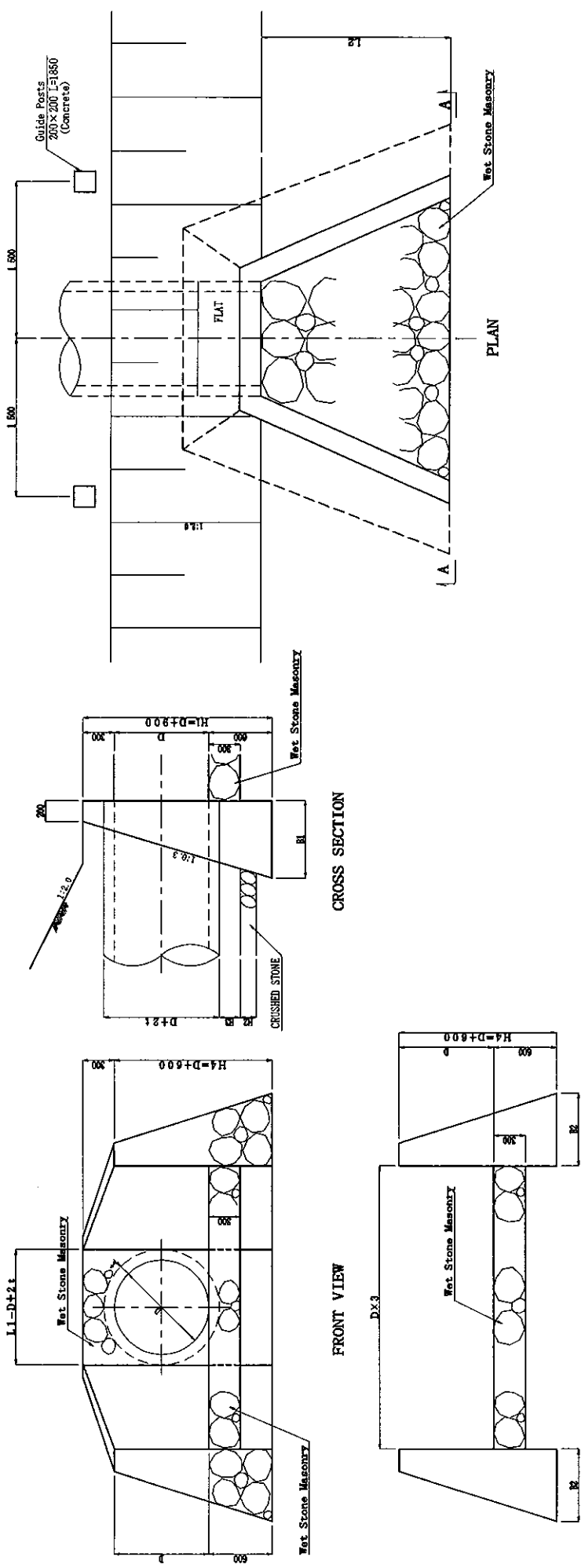
**INLET/OUTLET STRUCTURE FOR PIPE CULVERT (NONE SCALE)**

**A-A SECTION**

**DIMENSION TABLE**

STATION	PLACE	QUALITY AND SIZE	H1	H2	H3	H4	H5	H6	H8	H9	L1	L2	B1	B2	L3
4+811.6	BOTH SIDES	W7.150	800	150	50	750	—	—	—	—	150	150	440	620	1000
5+177.2	LEFT SIDE	W7.150	1700	500	600	1000	160	160	160	160	640	500	710	530	1000
5+177.2	RIGHT SIDE	W7.150	1850	500	550	1100	100	100	100	100	640	500	765	534	1000
6+106.7	BOTH SIDES	W7.150	2400	800	1000	1400	150	200	200	200	800	600	820	630	1000
8+116.6	RIGHT SIDE	W7.150	1600	300	500	900	100	100	100	100	400	300	620	457	1000
8+122.1	RIGHT SIDE	W8.110	2050	1000	650	1500	20	200	200	1500	1000	1000	815	700	2000
8+177.0	LEFT SIDE	W7.150	1250	200	650	800	100	100	100	100	300	200	575	455	1000
9+340	RIGHT SIDE	W8.110	1850	600	650	1200	20	100	1000	500	500	500	755	554	1200
9+490	LEFT SIDE	W7.150	1800	500	700	1100	100	150	150	150	640	500	740	533	1000
9+490	RIGHT SIDE	W7.150	2150	700	850	1300	100	200	200	200	670	700	845	600	1400
11+922.8	LEFT SIDE	W7.150	1450	200	650	800	100	100	100	100	300	200	635	432	1000
12+100	LEFT SIDE	W7.150	1950	500	650	1100	100	150	150	150	640	500	785	534	1000

<b>MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	TITLE: <b>INLET/OUTLET STRUCTURE PIPE CULVERT (NON STANDARD)</b>	SCALE: <b>NONE SCALE</b>	DRAWING NO: <b>CD-36</b>	RY:
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**INLET/OUTLET STRUCTURE FOR PIPE CULVERT (NONE SCALE)**

**DIMENSION TABLE OF RC PIPE CULVERT**

INLET DIAMETER D	t	H1	H2	H3	L1	B1	H4	B2	L2
200	50	1100	100	100	300	530	800	450	1000
300	50	1300	100	100	400	560	900	474	1000
350	55	1350	100	100	450	575	950	483	1000
400	60	1400	100	150	520	590	1000	513	1000
450	65	1450	100	150	530	605	1050	526	1000
500	70	1400	100	150	540	620	1100	537	1000
600	75	1500	100	150	700	650	1200	583	1200
700	85	1600	150	200	670	660	1300	628	1400
800	95	1700	150	200	990	710	1400	662	1600
900	100	1800	150	200	1100	740	1500	667	1600
1000	110	1900	150	200	1220	770	1600	701	2000
1200	130	2100	200	250	1460	830	1800	796	2400
1500	150	2400	200	250	1900	930	2100	899	3000

**DIMENSION TABLE OF STEEL PIPE CULVERT**

INLET DIAMETER D	t	H1	H2	H3	L1	B1	H4	B2	L2
120	3.0	1050	-	-	120	506	720	415	1000
150	4.0	1050	-	-	150	515	750	424	1000
180	5.0	1050	-	-	170	518	750	427	1000
200	5.8	1100	-	-	212	530	800	441	1000
210	5.8	1110	-	-	222	533	810	444	1000
230	6.0	1130	-	-	242	539	830	451	1000
400	10.0	1300	-	-	430	590	1000	520	1000
450	12.0	1350	-	-	474	605	1050	544	1000
500	13.0	1400	-	-	520	620	1100	567	1000

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:  
INLET/OUTLET STRUCTURE  
PIPE CULVERT (STANDARD)

SCALE:  
NONE  
SCALE

DRAWING No:  
CD-37

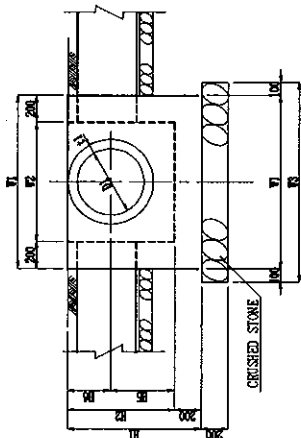
Rv:

DIMENSION TABLE

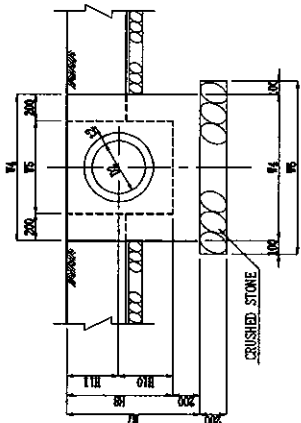
TYPE	D1	L1	W1	W2	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15	E16
6-6K2.5	15-15-13	1000	110	1700	1300	1300	1300	1500	1300	1300	1300	1300	1500	1300	1300	686	158	680	610
6-6K4.5	15-17-10	400	60	1100	700	1300	1000	1000	800	145	200	540	250	540	63	57	63	63	63
7-6K1.8	15-4-6	320	3	800	400	1000	800	800	800	92	92	92	92	92	92	92	92	92	92
8-6K1.8	15-8-8	500	70	1200	800	1400	1000	1000	800	285	70	480	320	480	320	480	320	480	320
8-6K2.2	15-8-8	500	70	1200	800	1400	1000	1000	800	285	70	480	320	480	320	480	320	480	320
8-6K4.0	15-8-8	500	70	1200	800	1400	1000	1000	800	285	70	480	320	480	320	480	320	480	320

DIMENSION TABLE

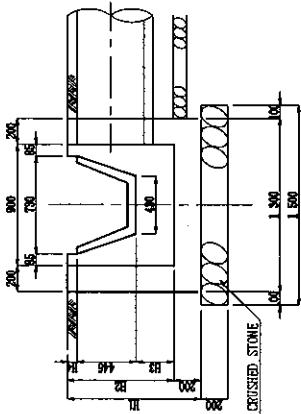
TYPE	D2	L2	W4	W5	E6	E7	E8	E9	E10	E11
7-6K1.8	600	70	1200	800	1400	1200	1000	655	465	545
7-6K4.0	600	70	1200	800	1400	1200	1000	655	449	561
8-6K1.6	300	50	1000	600	1200	1100	900	485	340	550
8-6K1.1	200	50	800	400	1000	800	700	285	349	361
9-6K4.0	700	85	1400	1000	1600	1400	1400	855	575	625
10-6K4.0	900	120	1800	1400	2000	1800	1800	1155	732	782
10-6K3.0	900	70	1200	800	1400	1200	1000	655	460	540
10-6K2.5	600	70	1200	800	1400	1200	1000	655	467	545
10-6K2.2	200	6	800	400	1000	800	800	155	358	242



SECTION B-B

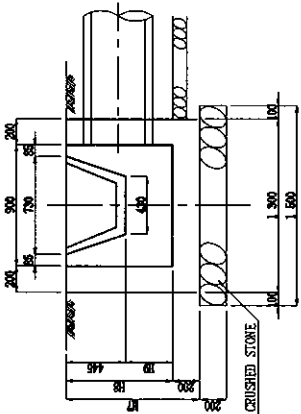


SECTION B-B



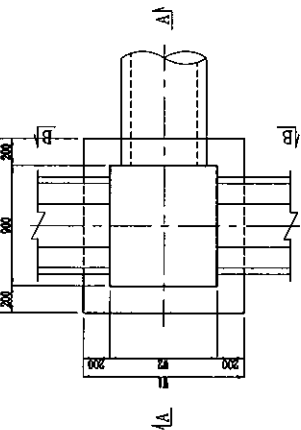
SECTION A-A

DROP INLET TYPE-A S=1:20

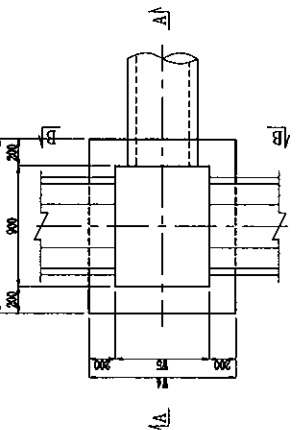


SECTION A-A

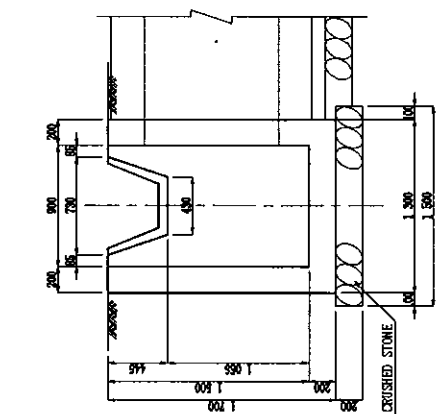
DROP INLET TYPE-B S=1:20



PLAN

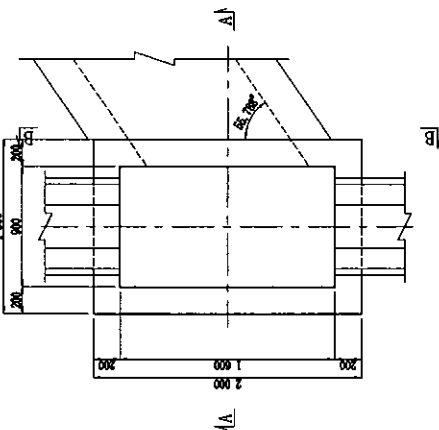


PLAN

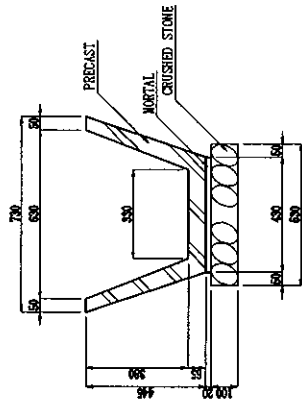


SECTION A-A

DROP INLET TYPE-C (TYPE C9-16-15 8+122.1) S=1:20



PLAN



SIDE DITCH S=1:10

MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NININY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	CONCRETE DROP INLET	DRAWING No:	CD-38	R.V.
			SCALE:	AS SHOWN			