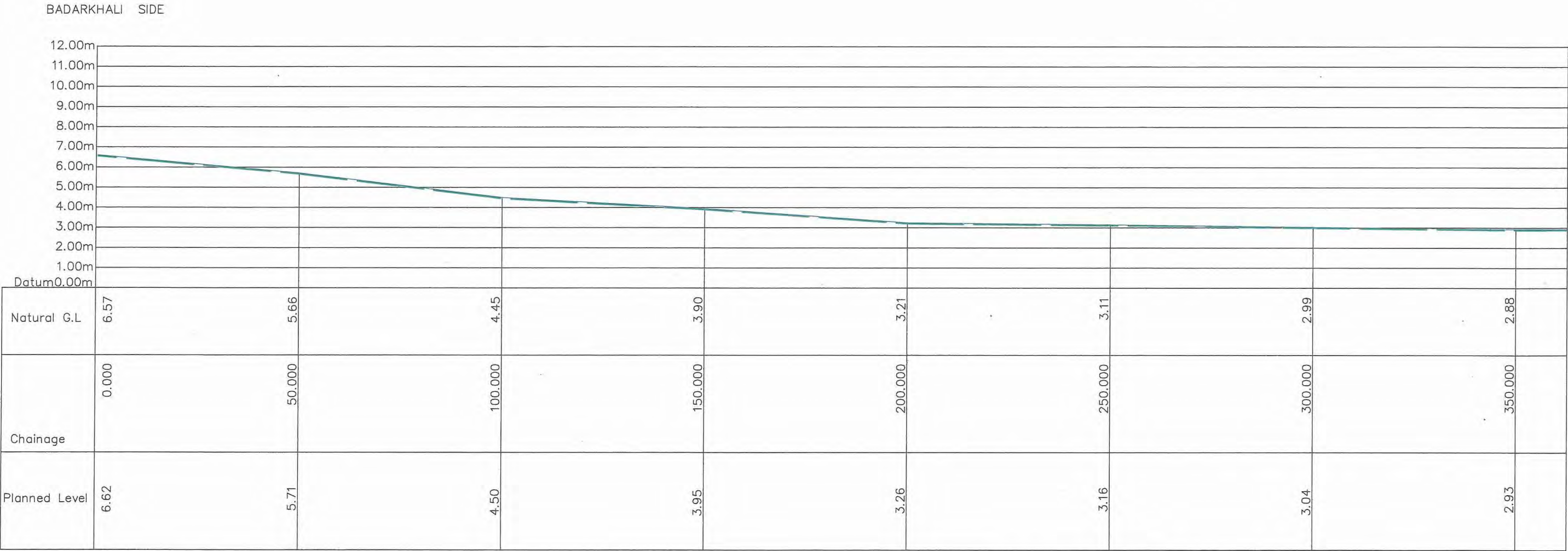


ROAD LONGITUDINAL PROFILE

LEGEND:

Natural Ground Level

Planned Level



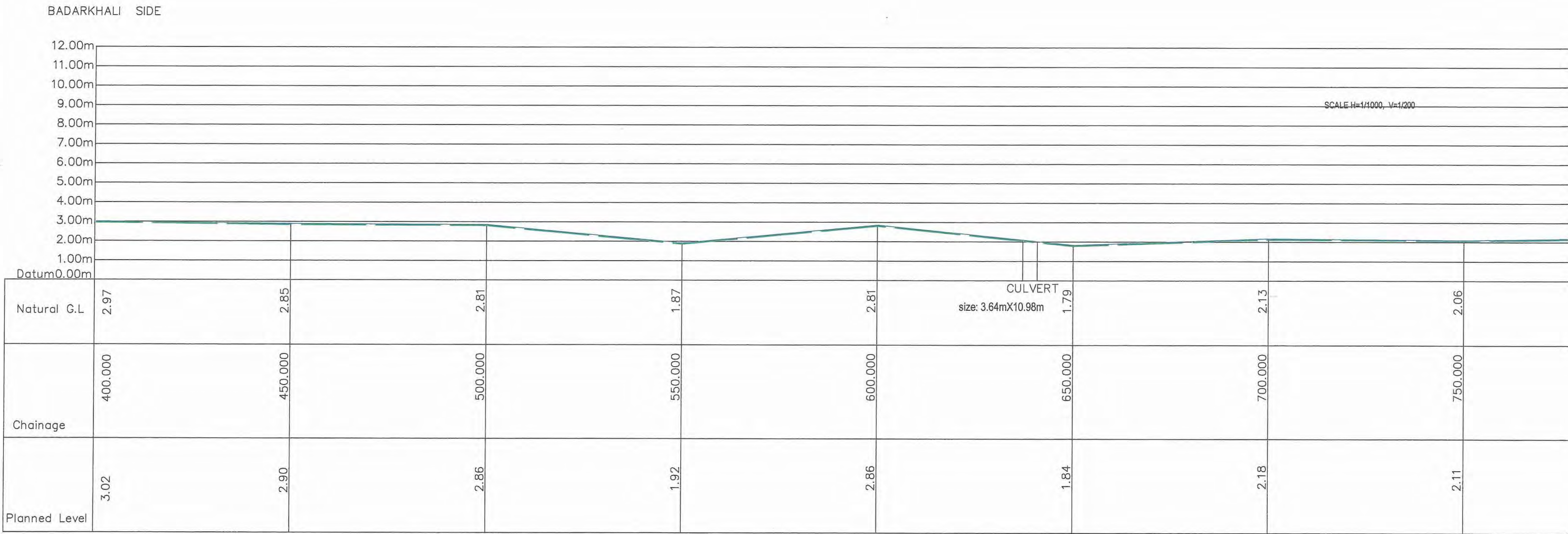
PROFILE
SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NO
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-003 1 OF 19

LEGEND:

Natural Ground Level

Planned Level



PROFILE

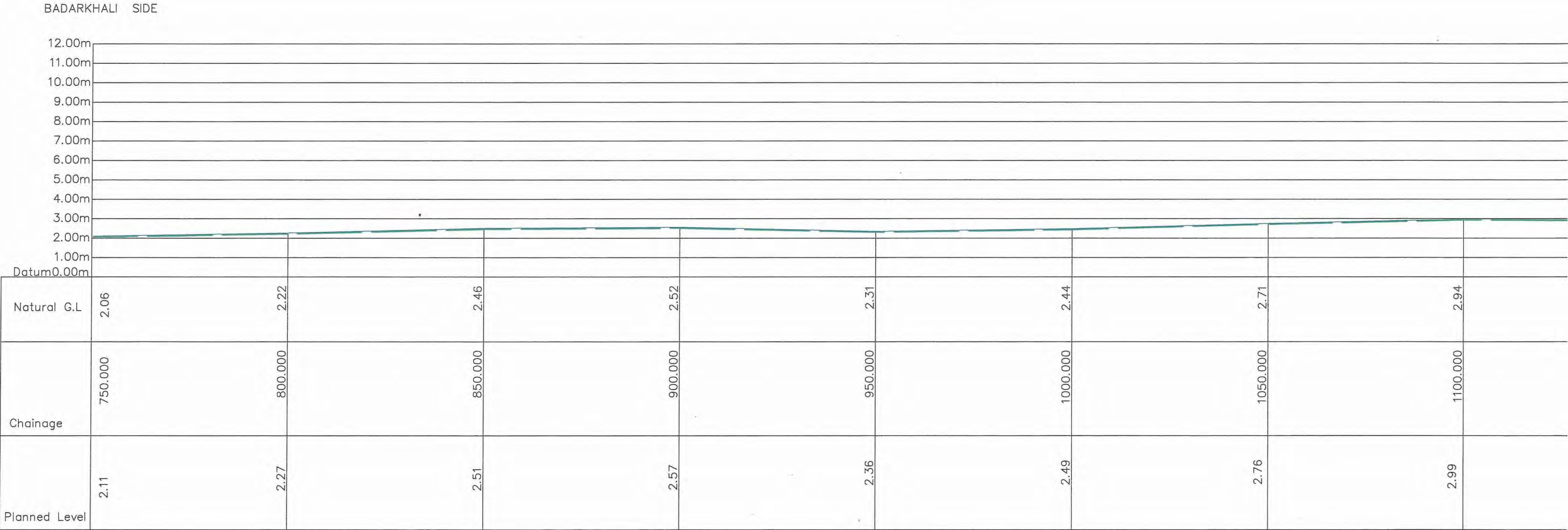
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Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NO.
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-003 2 OF 19

LEGEND:

Natural Ground Level

Planned Level



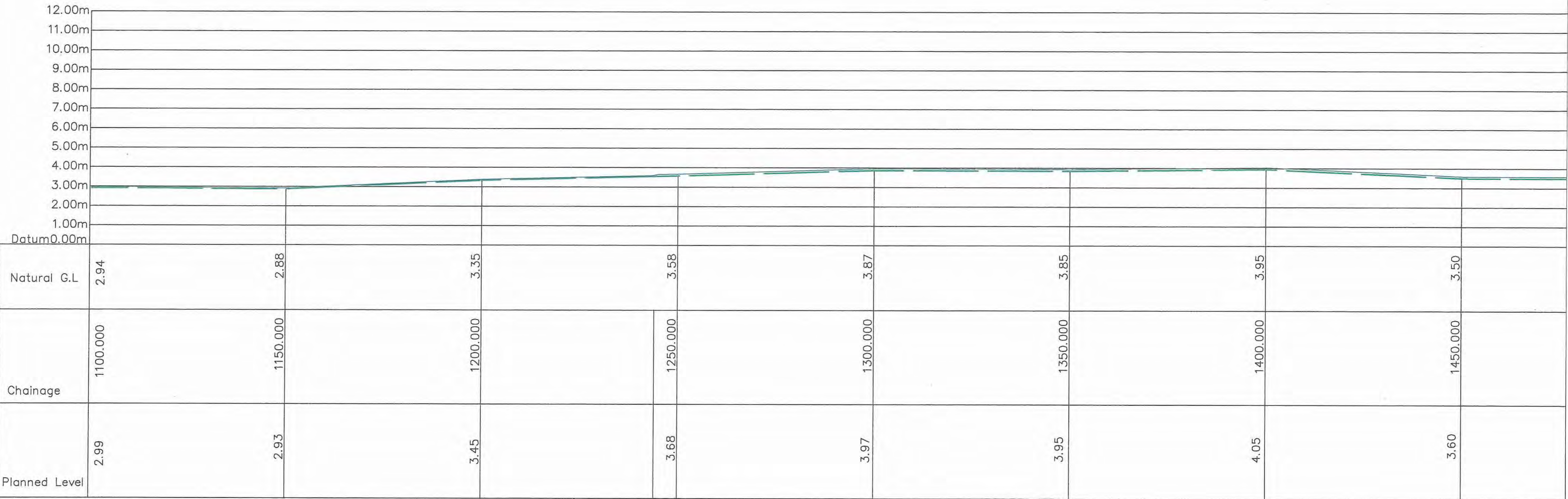
PROFILE
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Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NO.
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-001 3 OF 19

LEGEND:

- Natural Ground Level
— Planned Level

BADARKHALI SIDE



SCALE H=1/1000, V=1/200

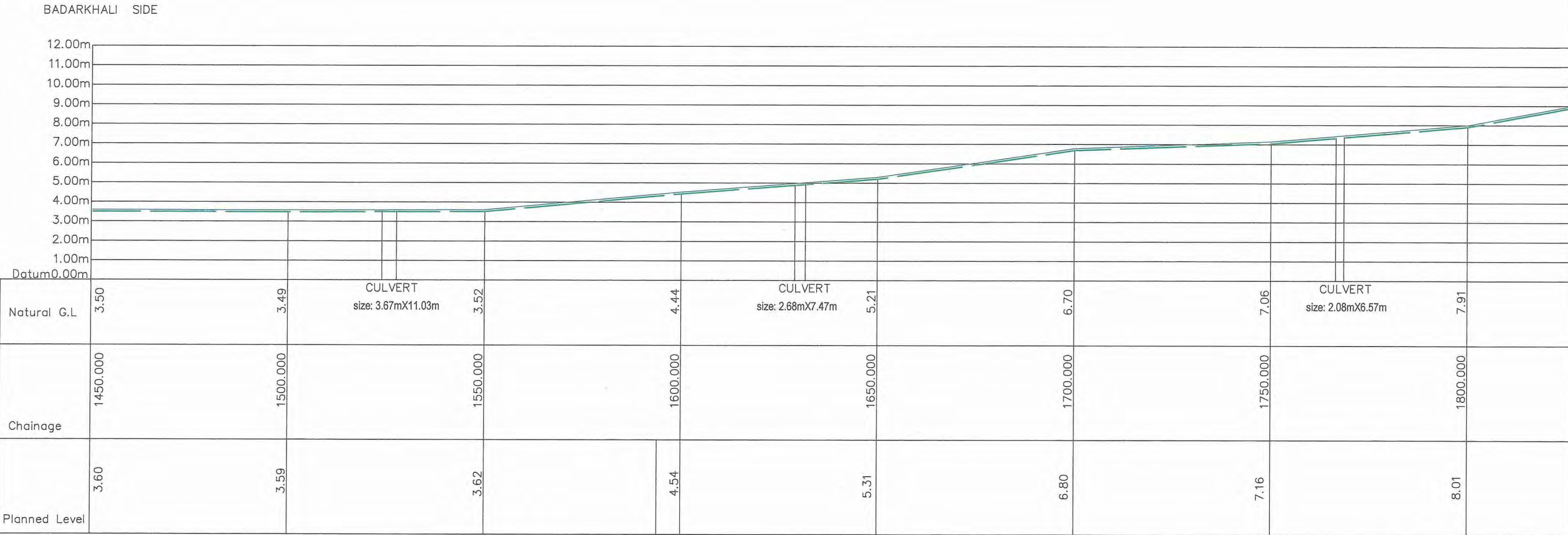
PROFILE
SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NC
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-00: 4 OF 19

LEGEND:

Natural Ground Level

Planned Level



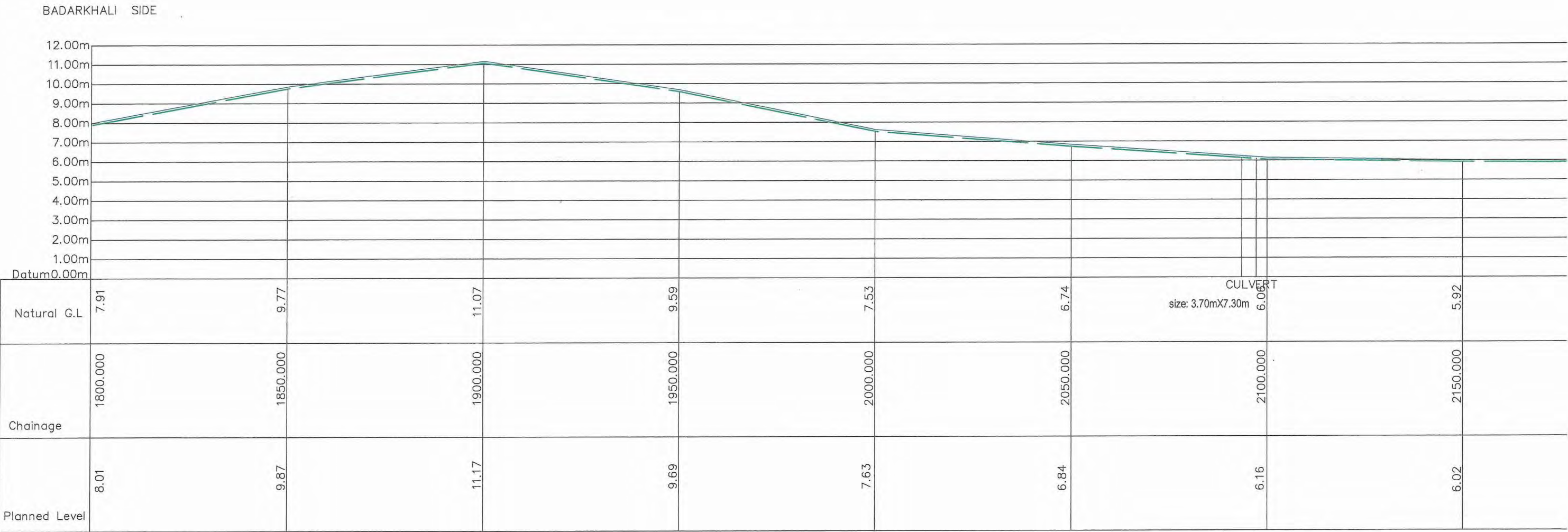
PROFILE
SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NC
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-001 5 OF 19

LEGEND:

Natural Ground Level

Planned Level



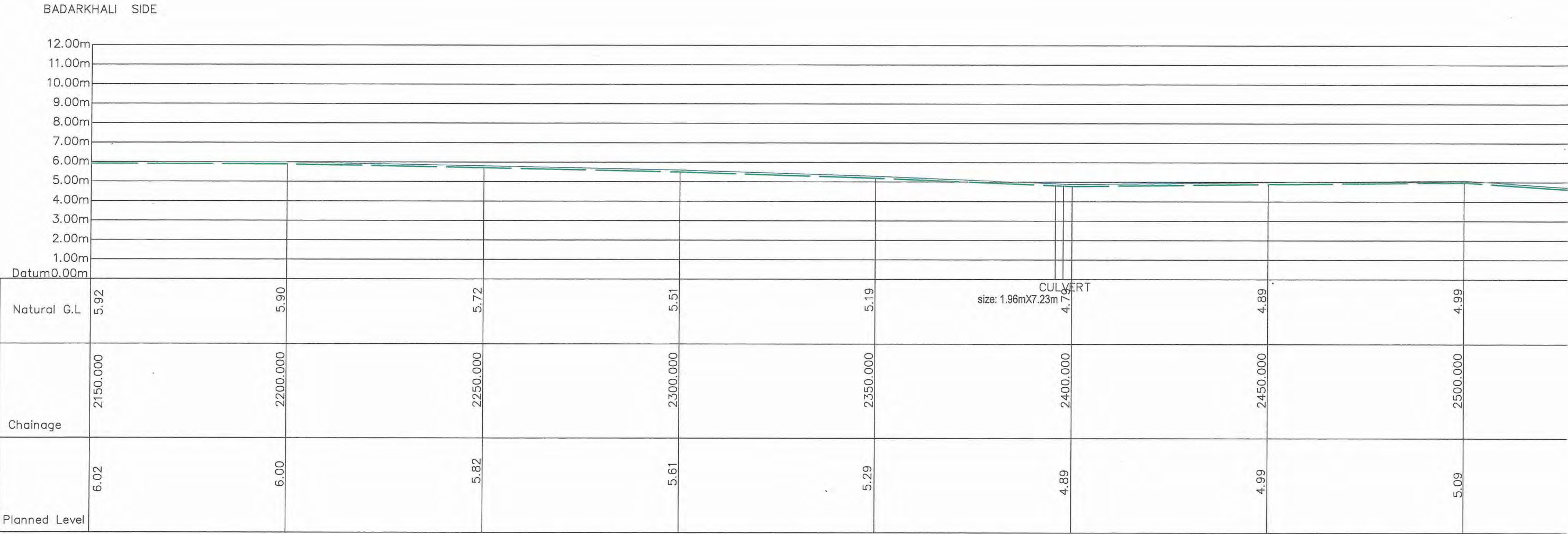
PROFILE
SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NO.
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-001 6 OF 19

LEGEND:

Natural Ground Level

Planned Level



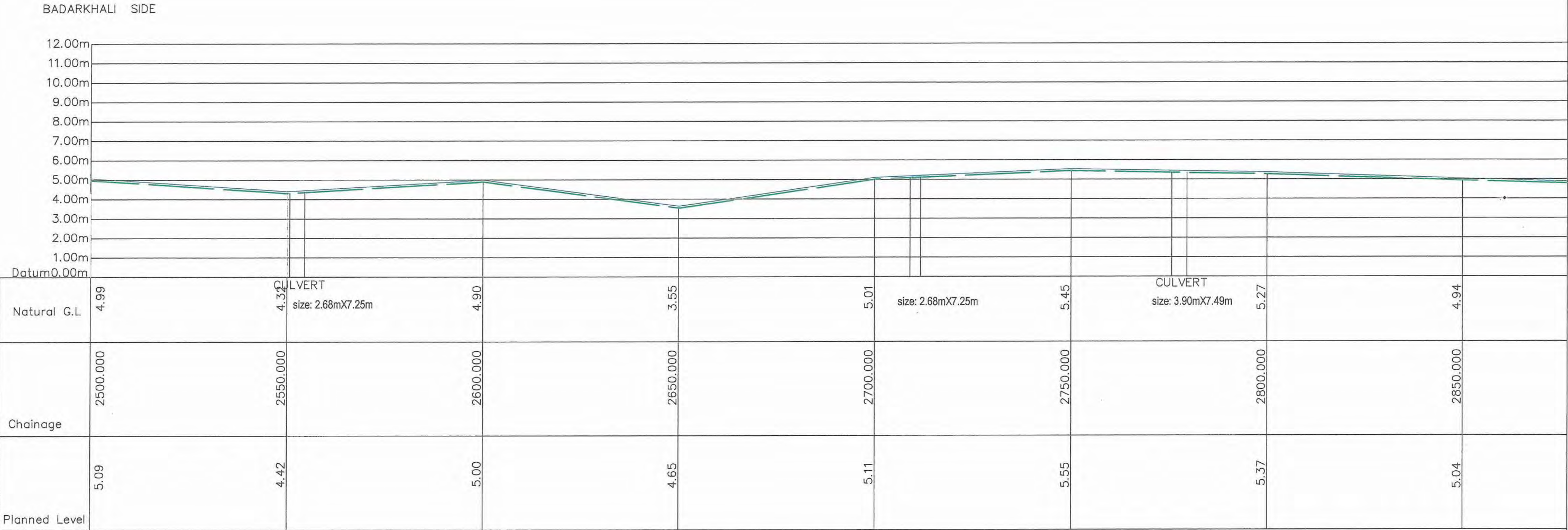
PROFILE
SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NO.
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-007 7 OF 19

LEGEND:

Natural Ground Level

Planned Level



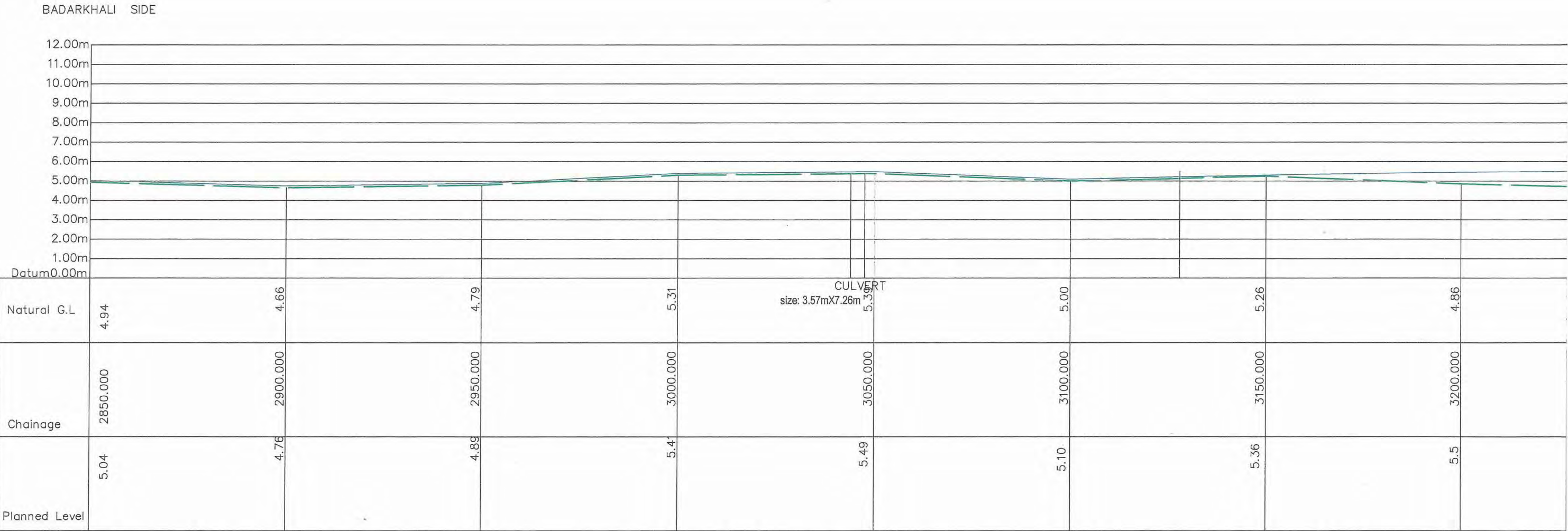
PROFILE
SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NO
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-003 8 OF 19

LEGEND:

Natural Ground Level

Planned Level



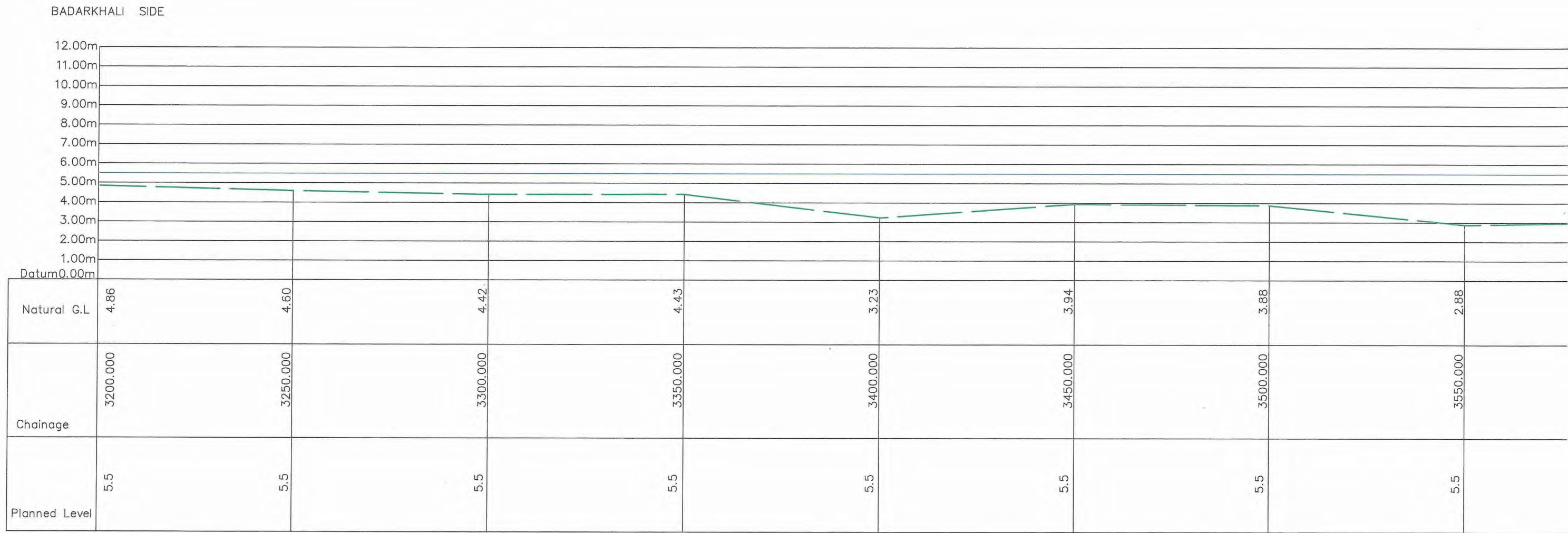
PROFILE
SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NO.
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-003 9 OF 19

LEGEND:

Natural Ground Level

Planned Level



PROFILE

SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NO
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-00 10 OF 19

LEGEND:

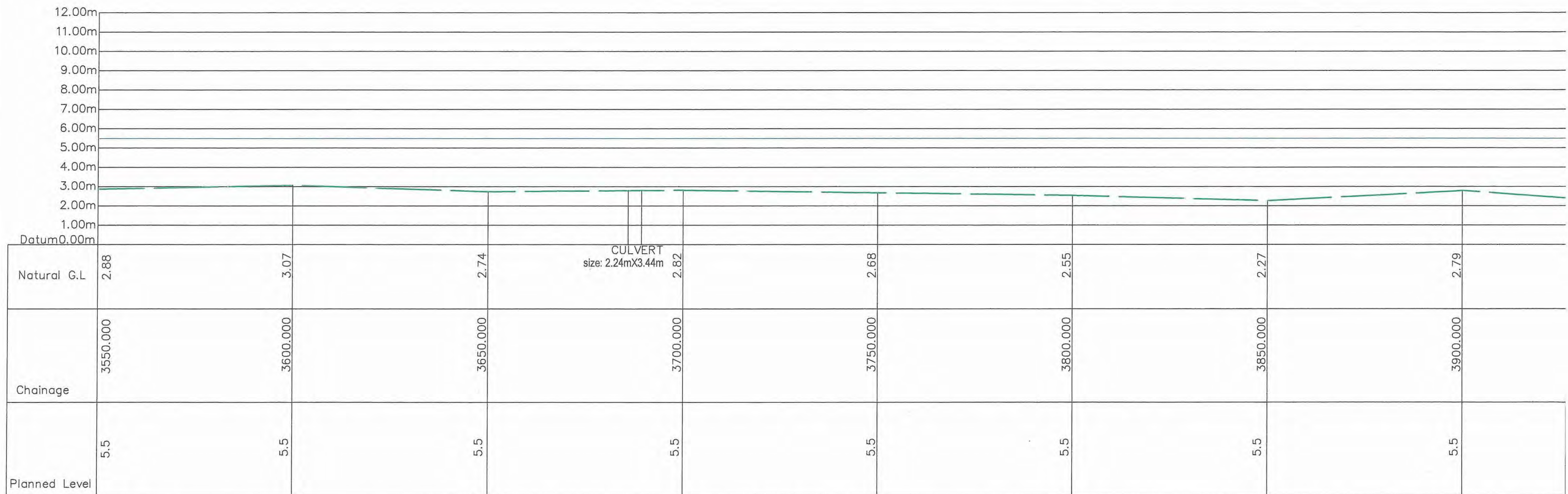
———— Natural Ground Level

———— Planned Level

———— Natural Ground Level

Planned Level

BADARKHALI SIDE



PROFILE

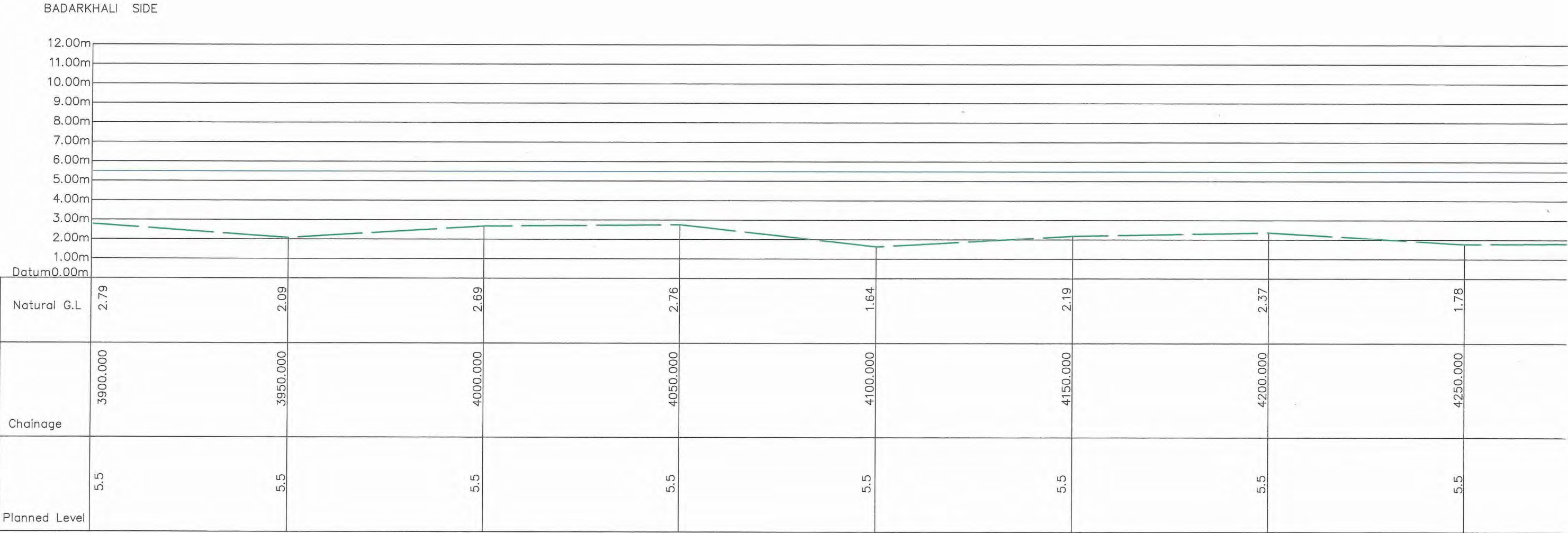
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Roads and Highways Department (RHD)	Preparatory Survey on Cittagong Area Coal Fired Power Plant	JAPAN INTERNATIONAL	DRAWING TITLE:	SCALE	DATE	DRAWING NO.
Ministry of Communications	Development Project in Bangladesh	COOPERATION AGENCY (JICA)	ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-003 11 OF 19

LEGEND:

Natural Ground Level

Planned Level



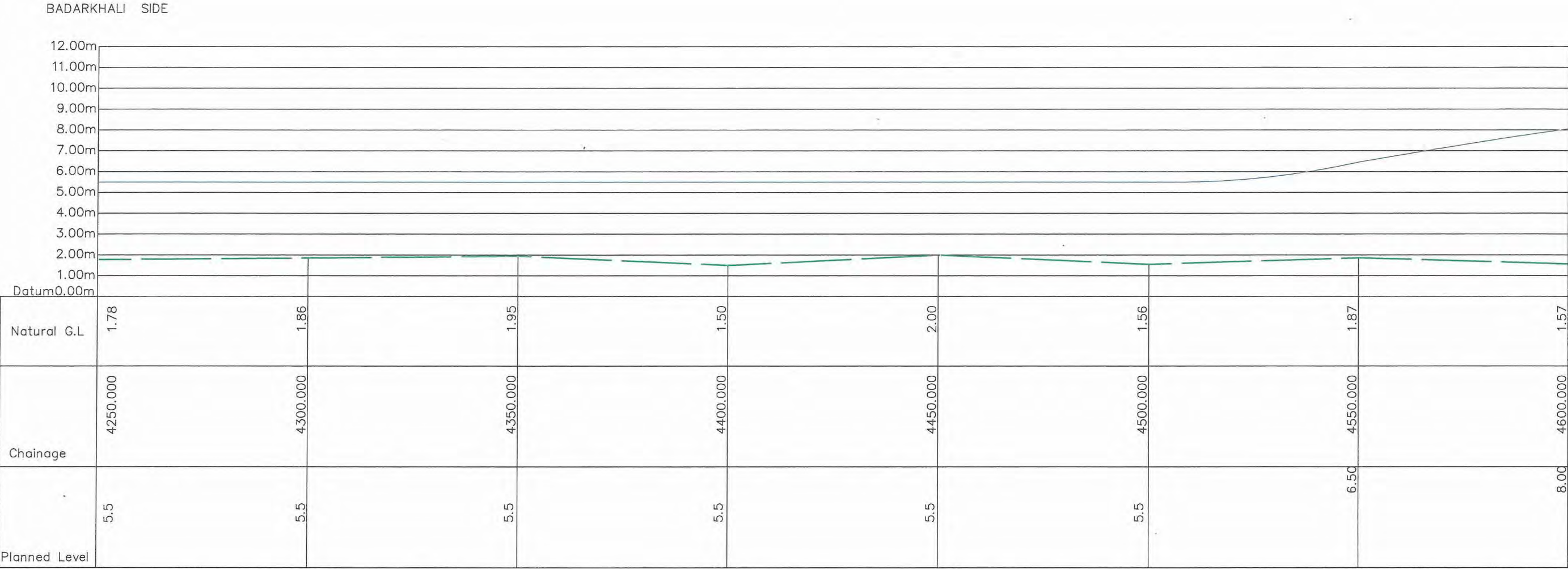
PROFILE
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			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-00 12 OF 19

LEGEND:

Natural Ground Level

Planned Level



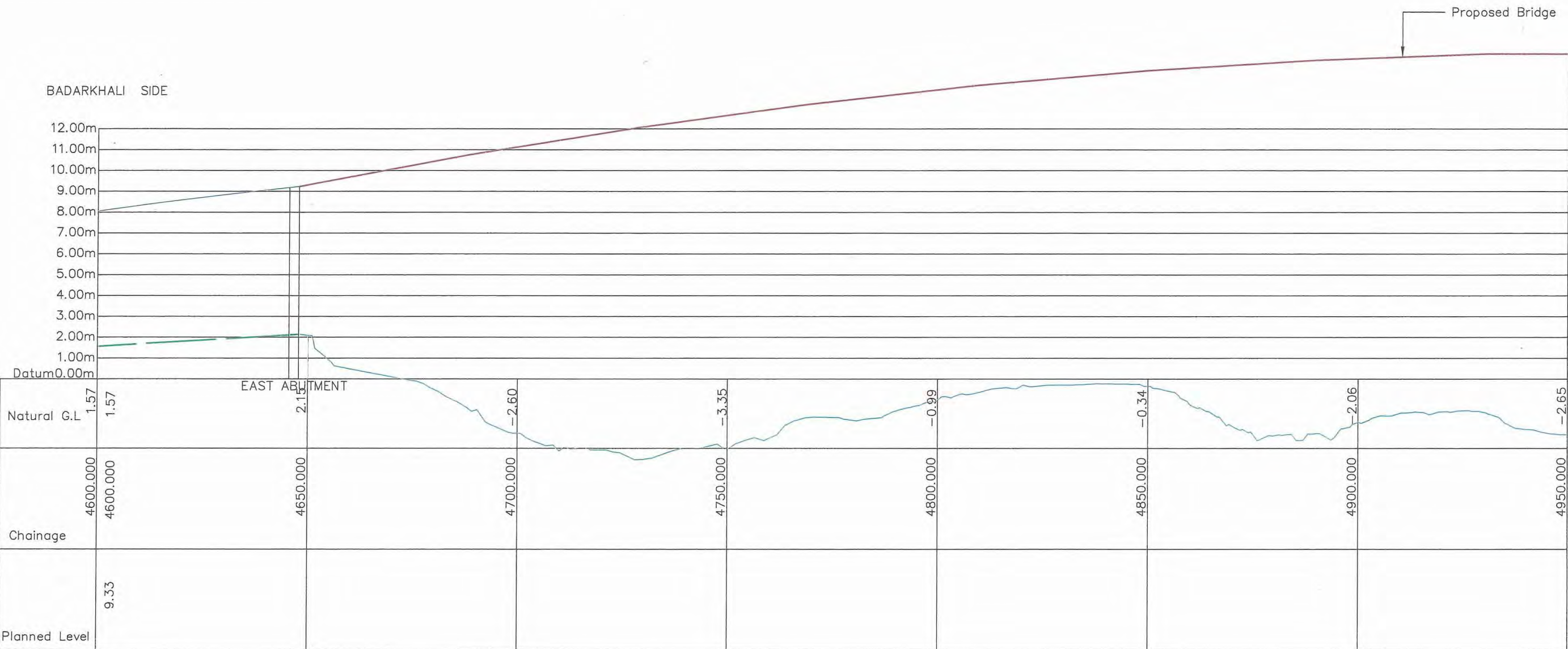
PROFILE

SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NO.
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-00 13 OF 19

LEGEND:

- Natural Ground Level
- Planned Level
- Bridge Deck Level



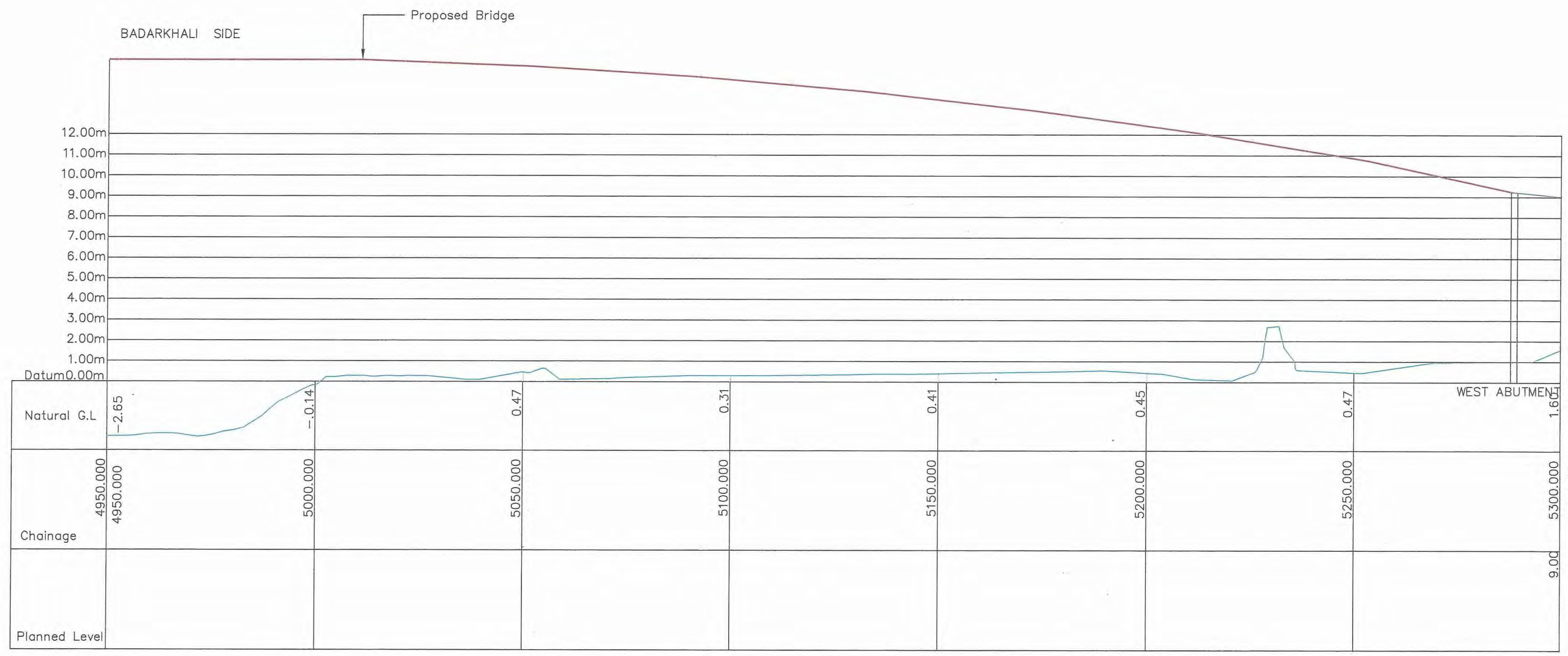
PROFILE

SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NC
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-00 14 OF 19

LEGEND:

- Natural Ground Level
- Planned Level
- Bridge Deck Level



PROFILE
SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING NO.
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-001 15 OF 19

LEGEND:

———— Natural Ground Level

———— Planned Level

LEGEND:

———— Natural Ground Level

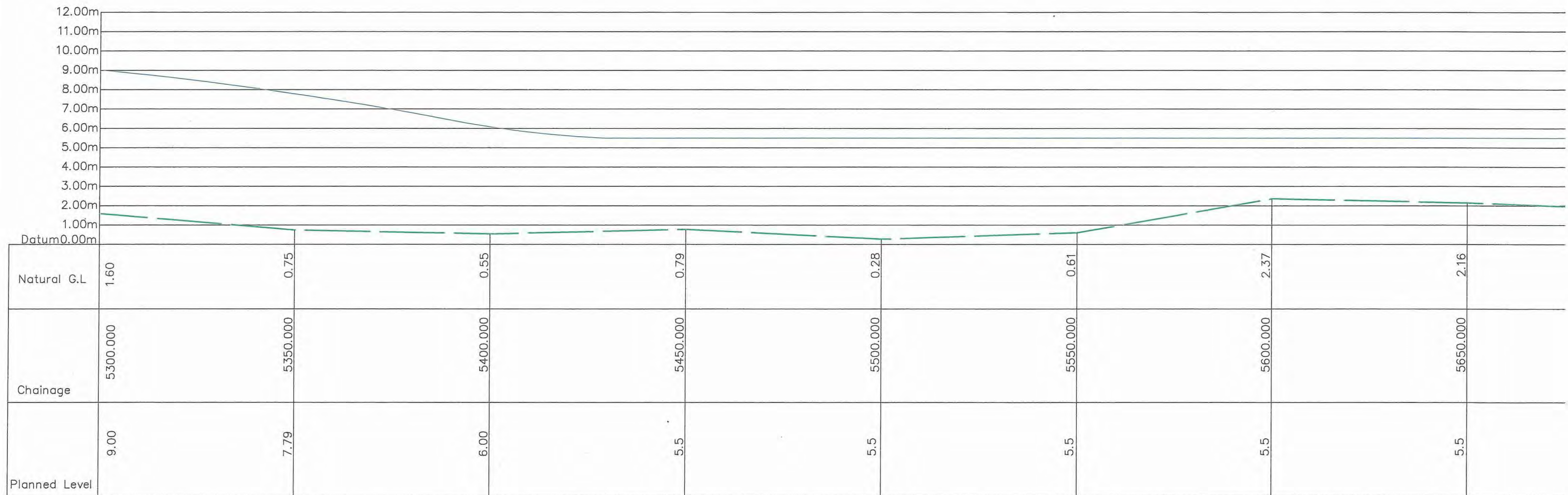
———— Planned Level

LEGEND:

———— Natural Ground Level

———— Planned Level

BADARKHALI SIDE



PROFILE

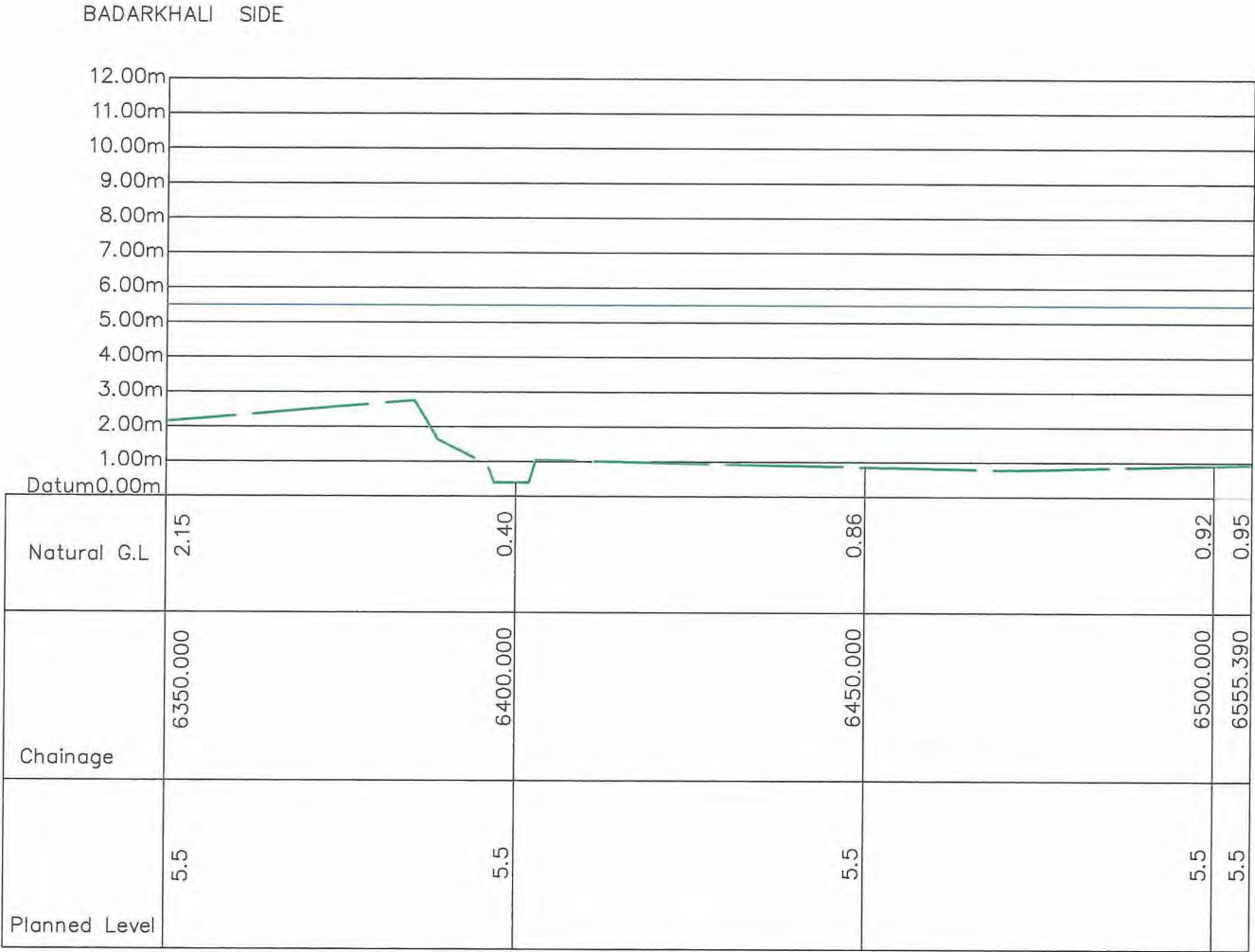
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Roads and Highways Department (RHD)	Preparatory Survey on Cittagong Area Coal Fired Power Plant	JAPAN INTERNATIONAL	DRAWING TITLE:	SCALE	DATE	DRAWING NO.
Ministry of Communications	Development Project in Bangladesh	COOPERATION AGENCY (JICA)	ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-001 16 OF 19

LEGEND:

Natural Ground Level

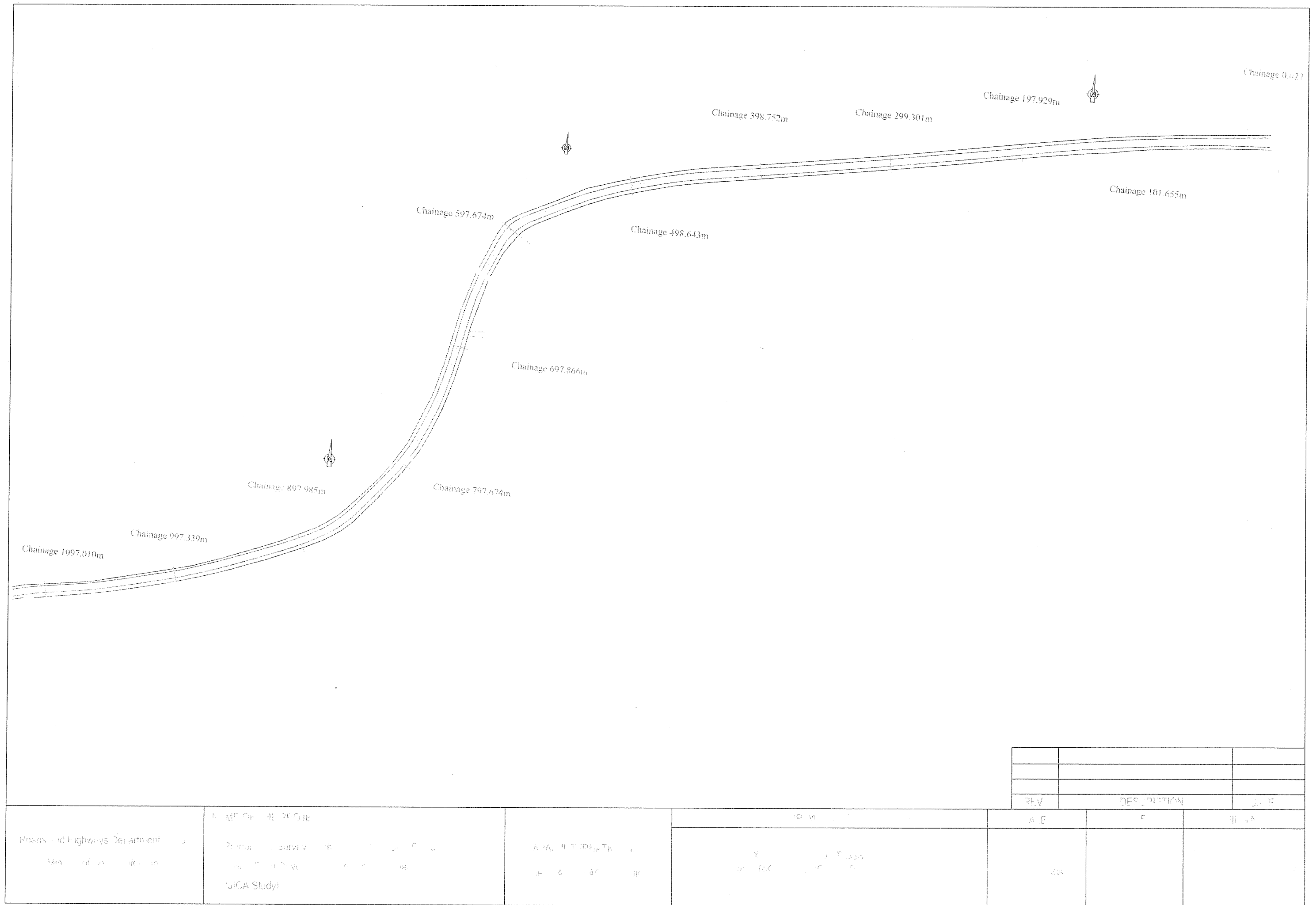
Planned Level



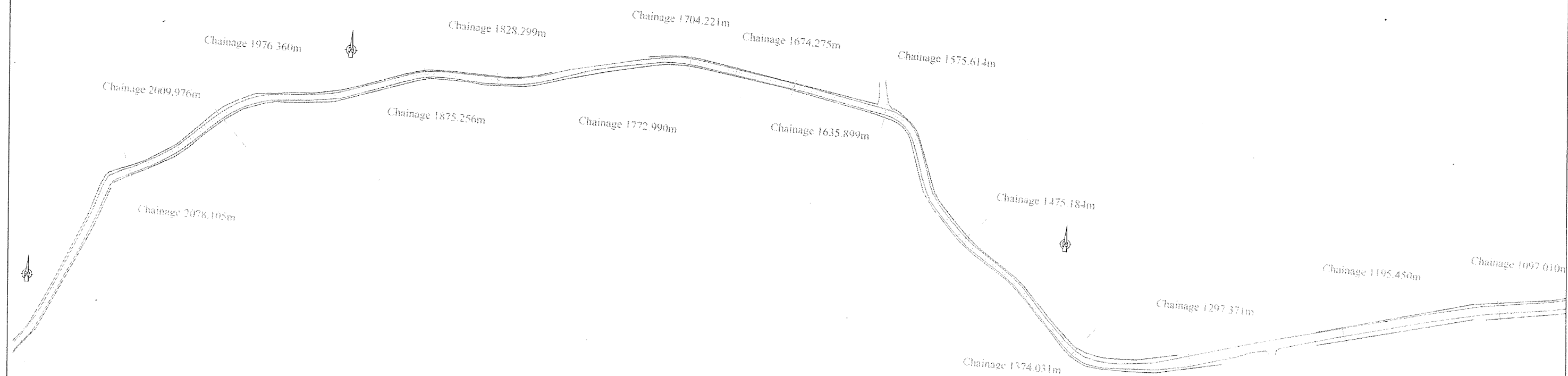
PROFILE
SCALE H=1/1000, V=1/200

Roads and Highways Department (RHD) Ministry of Communications	Preparatory Survey on Cittagong Area Coal Fired Power Plant Development Project in Bangladesh	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE:	SCALE	DATE	DRAWING N
			ROAD LOGITUDINAL PROFILE BADARKHALI TO PLANT SITE	1:1000	AUGUST, 2013	PS/CFPP/S2K-0 19 OF 19

CROSS SECTION INDEX MAP



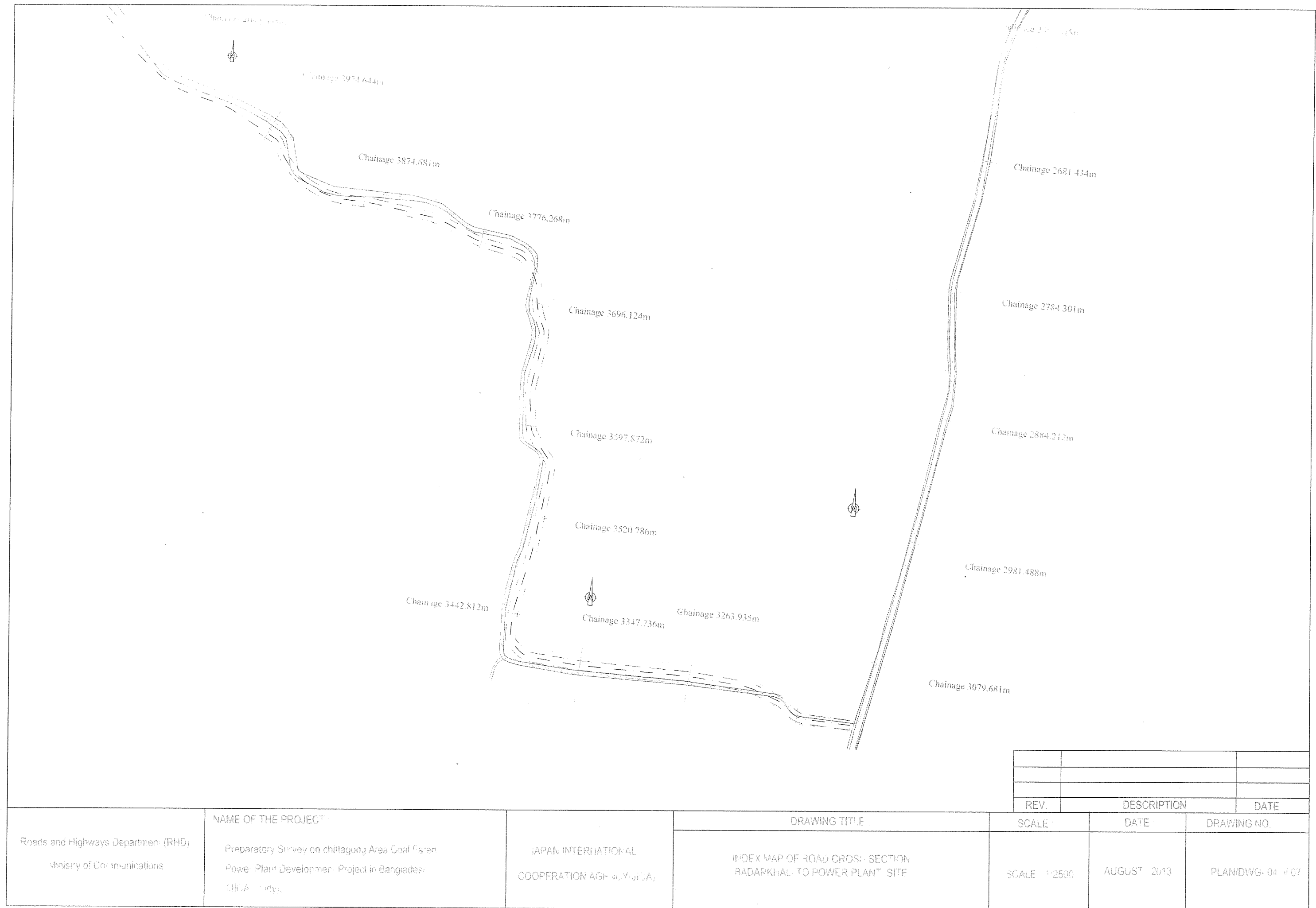
Roads and Highways Department Ministry of Transport and Infrastructure (MICA Study)	Name of the Project Road Survey and Mapping of the Road Network (MICA Study)	Availability of Data The data is available for the project.	Date of the Survey The survey was conducted on 10/10/2023.	REV	DESCRIPTION		DATE
				1	Initial Design		
				2	Final Design		
				3	Construction		

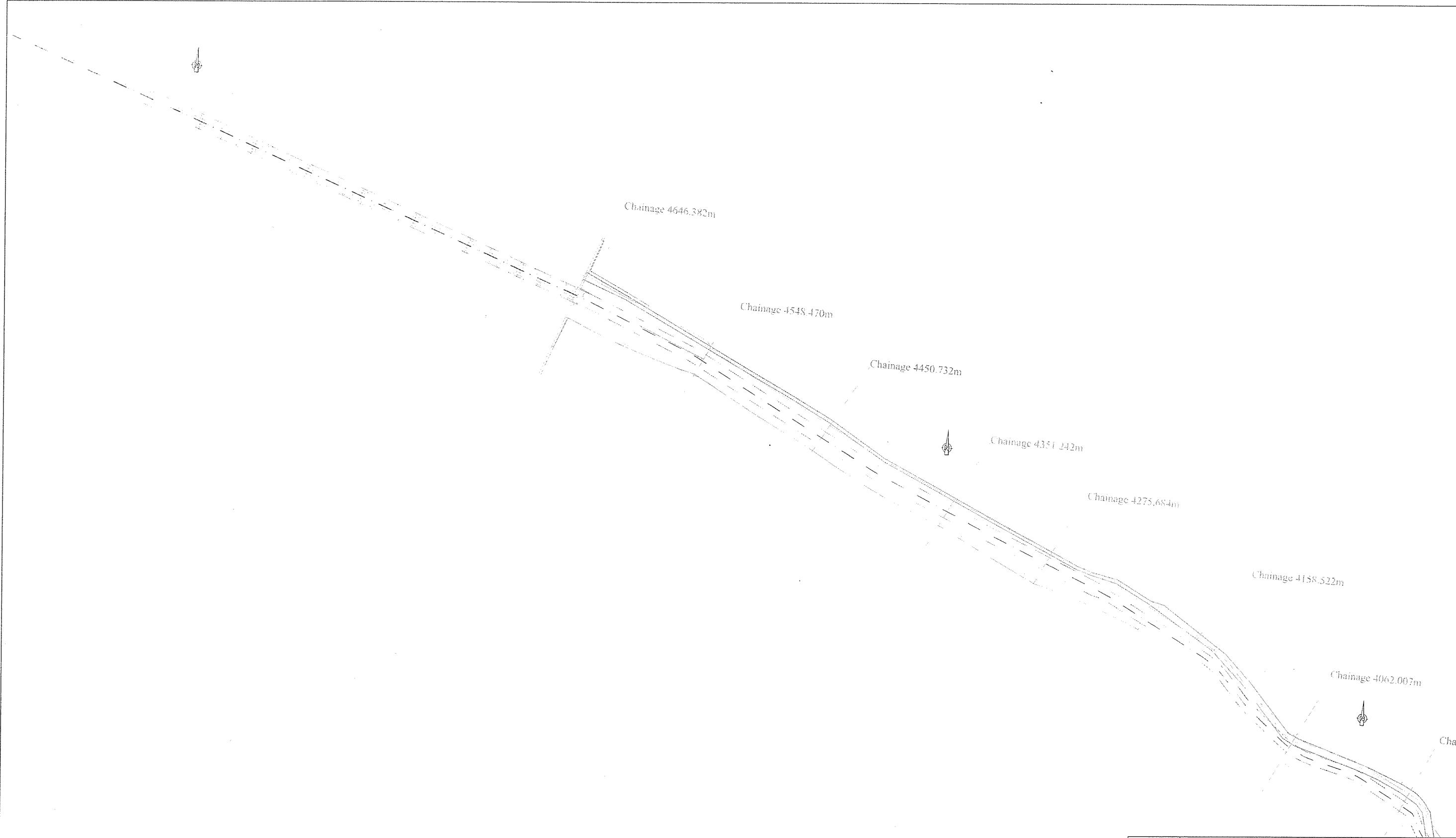


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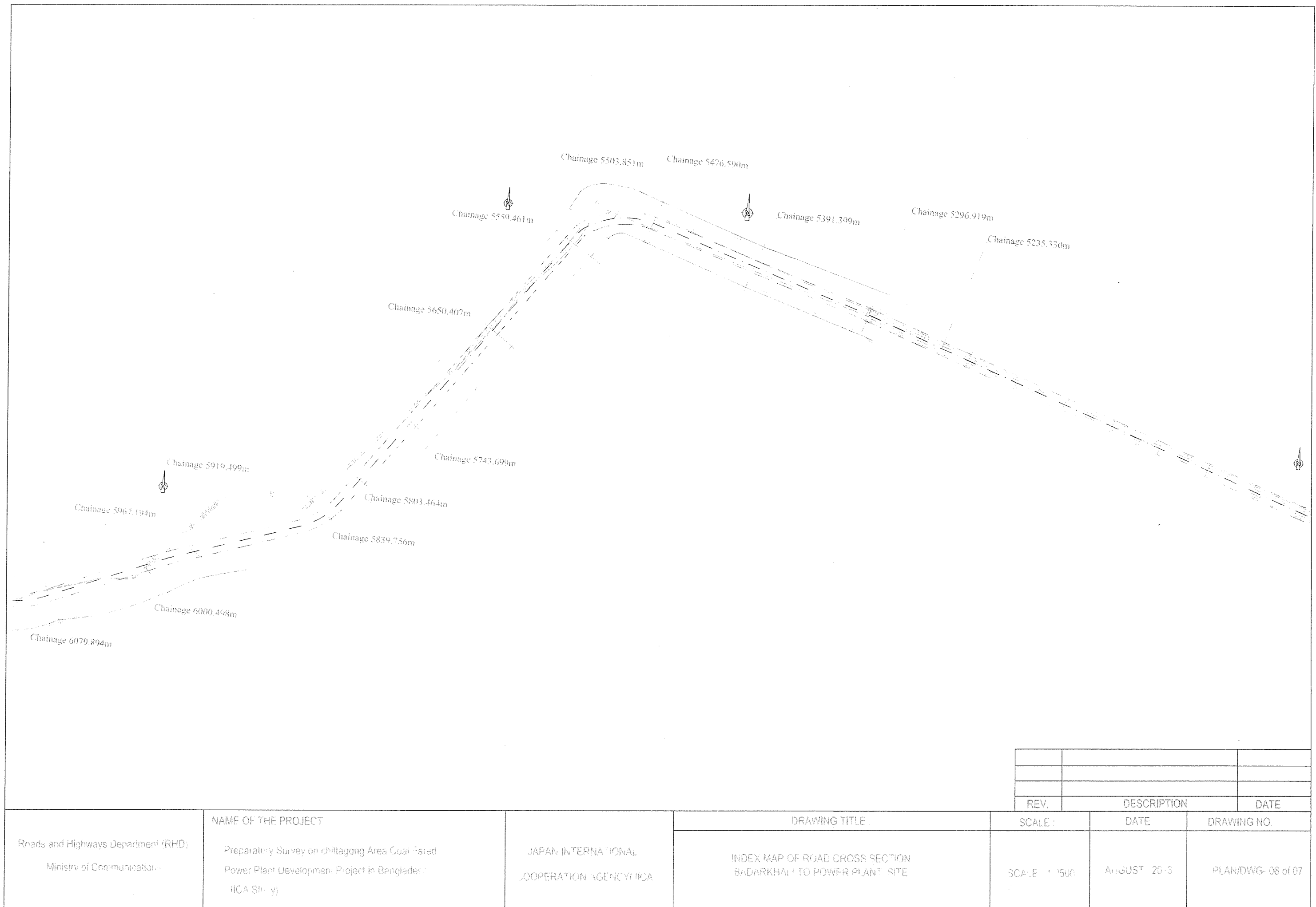
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT Preparation of Feasibility Study for Construction of a New Road (JICA Study).	APPROVAL FOR THE PROJECT Construction of a New Road	DRAWING TITLE	SCALE	DATE	DRAWN BY
			INDEX MAP OF THE PROJECT SITE ROAD CONSTRUCTION SITE	1:1000	1/1/2020	





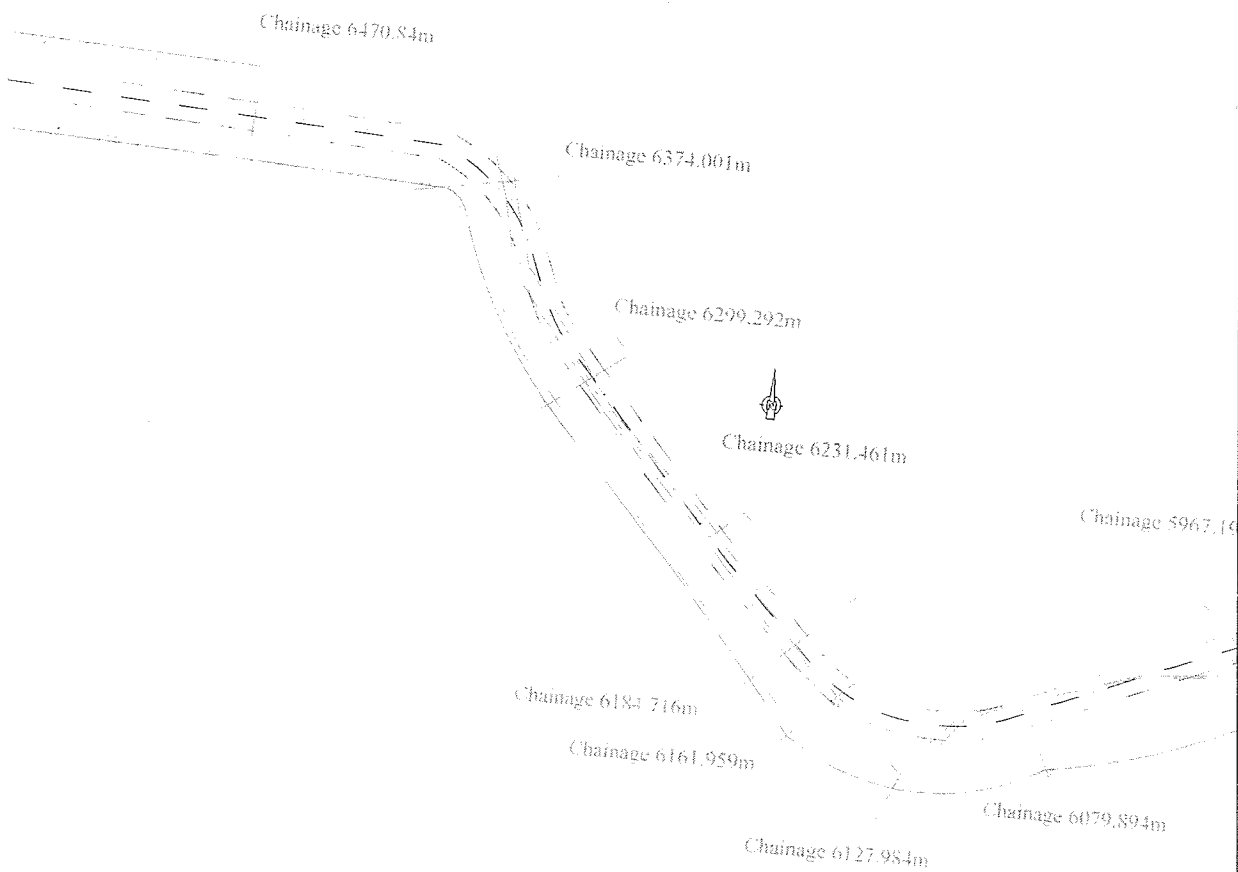
REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT Preparatory Survey on Chittagong Area (at Fared Power Plant Development Project in Bangladesh (ICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			INDEX MAP OF ROAD CROSS SECTION BADARKHA TO POWER PLANT SITE	SCALE : 1:2500	AUGUST 2013	PLAN/DWG-05 of 07



REV.	DESCRIPTION	DATE

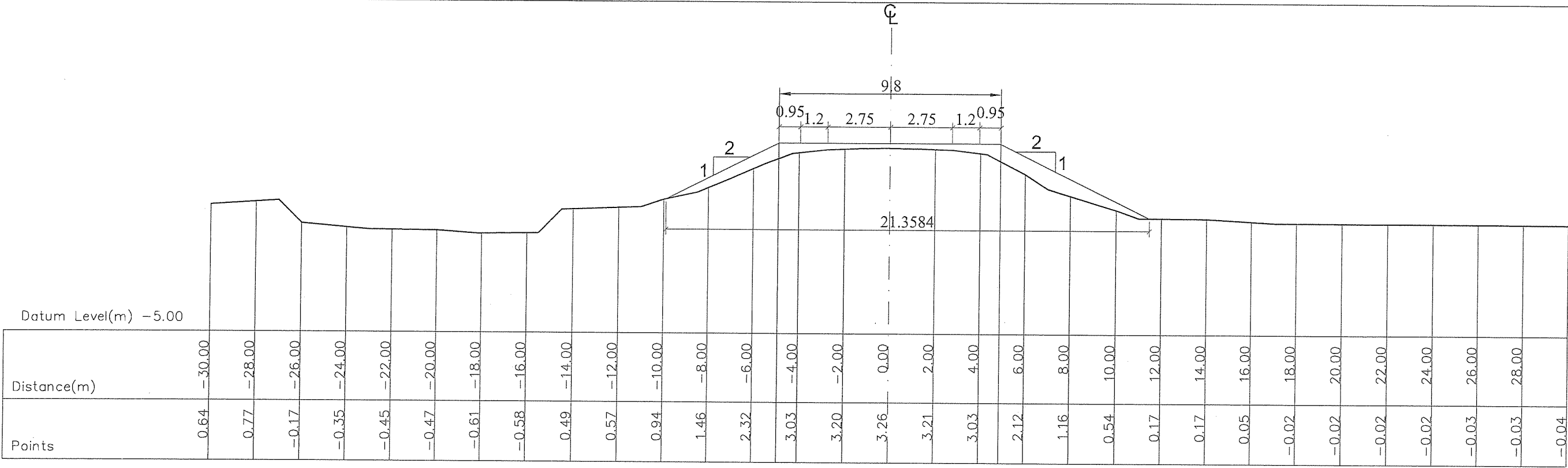
Roads and Highways Department (RHD) Ministry of Communication	NAME OF THE PROJECT Preparatory Survey on chittagong Area Coal Fired Power Plant Development Project in Bangladesh (ICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE	SCALE :	DATE	DRAWING NO.
			INDEX MAP OF ROAD CROSS SECTION BADARKHAL TO POWER PLANT SITE	SCALE : 1:2500	AUGUST 2013	PLAN/DWG- 06 of 07



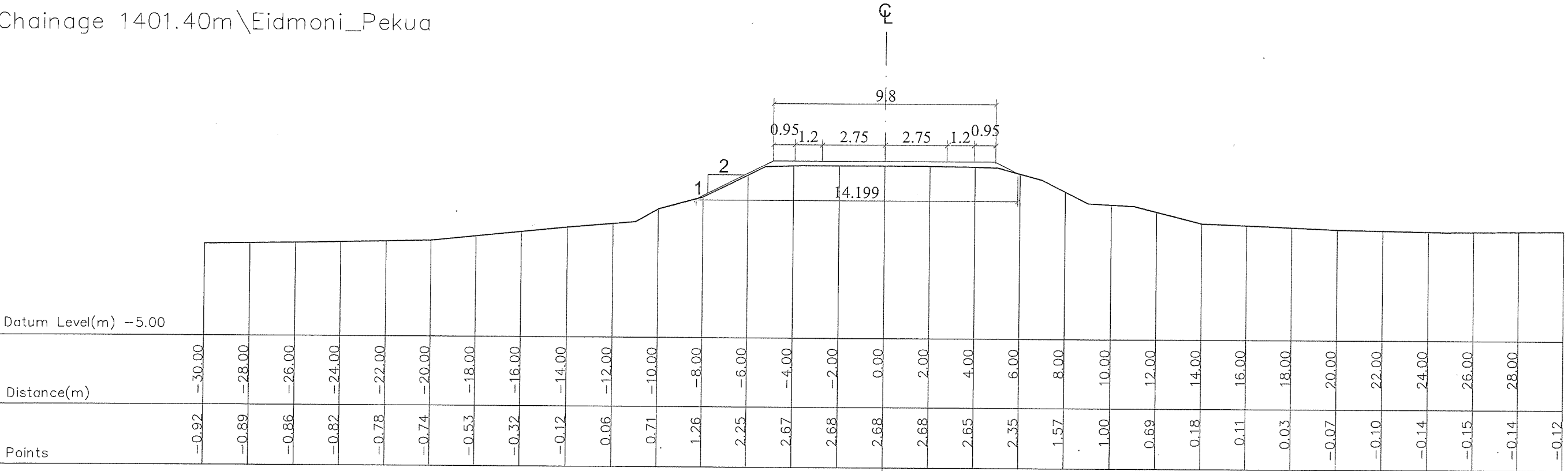
REV.	DESCRIPTION	DATE

Roads and Highway Department (RHD) Ministry of Communications	NAME OF THE PROJECT Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study)	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE	SCALE	DATE	DRAWING NO.
			INDEX MAP OF ROAD CROSS SECTION BADARKHALI TO POWER PLANT SITE	SCALE : 1:2500	AUGUST 2013	PLAN/DWG- 07 of 07

DESIGN CROSS SECTION



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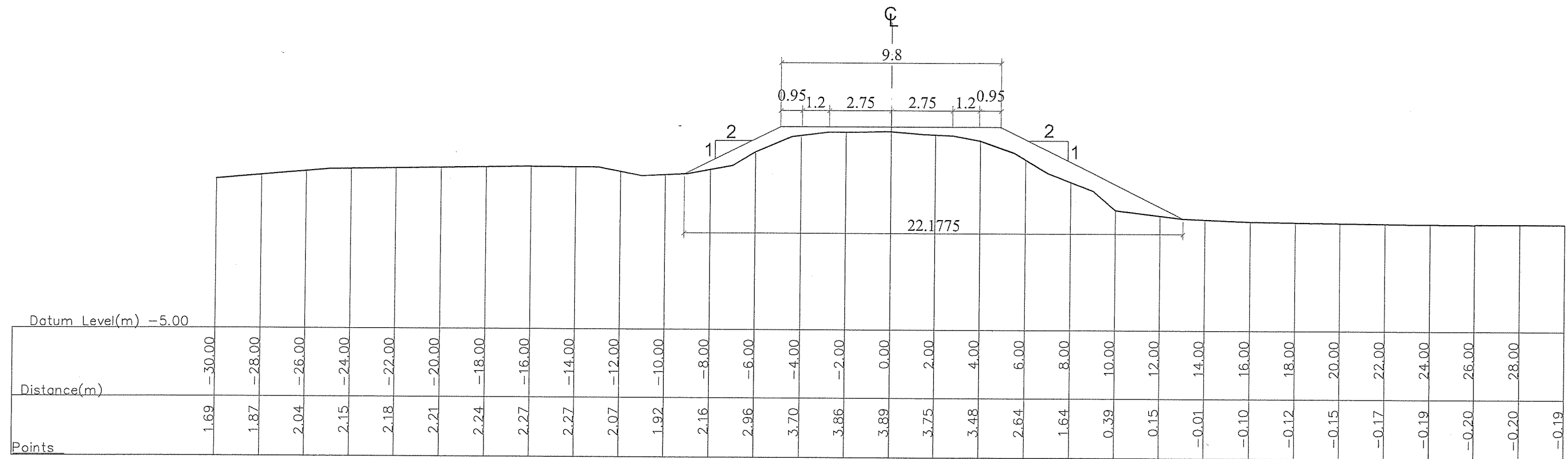
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REV.	DESCRIPTION	DATE

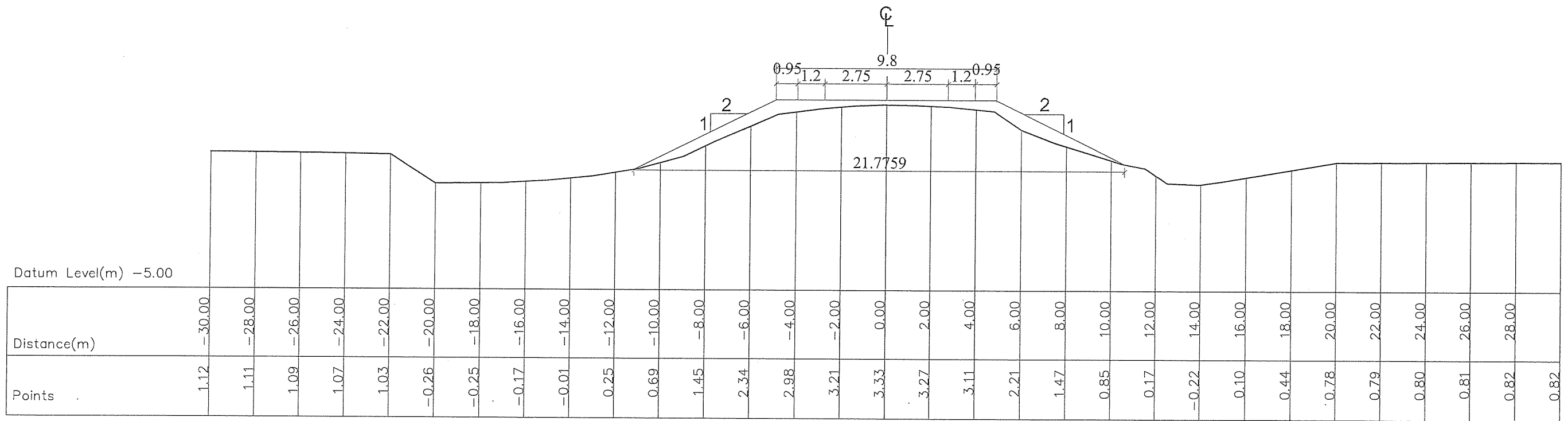
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION EIDMONI TO PEKUA	1:200	AUGUST, 2013	CS/DWG-01 of 54



REV.	DESCRIPTION	DATE
SCALE :	DATE :	DRAWING NO.
1:200	AUGUST, 2013	CS/DWG-02 of 54



Chainage 5709.5m\Eidmoni_Pekua



Chainage 47240m\Eidmoni_Pekua

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD)
Ministry of Communications

NAME OF THE PROJECT :
Preparatory Survey on chittagong Area Coal Fared
Power Plant Development Project in Bangladesh
(JICA Study).

JAPAN INTERNATIONAL
COOPERATION AGENCY(JICA)

DRAWING TITLE :
ROAD CROSS SECTION
EIDMONI TO PEKUA

SCALE :

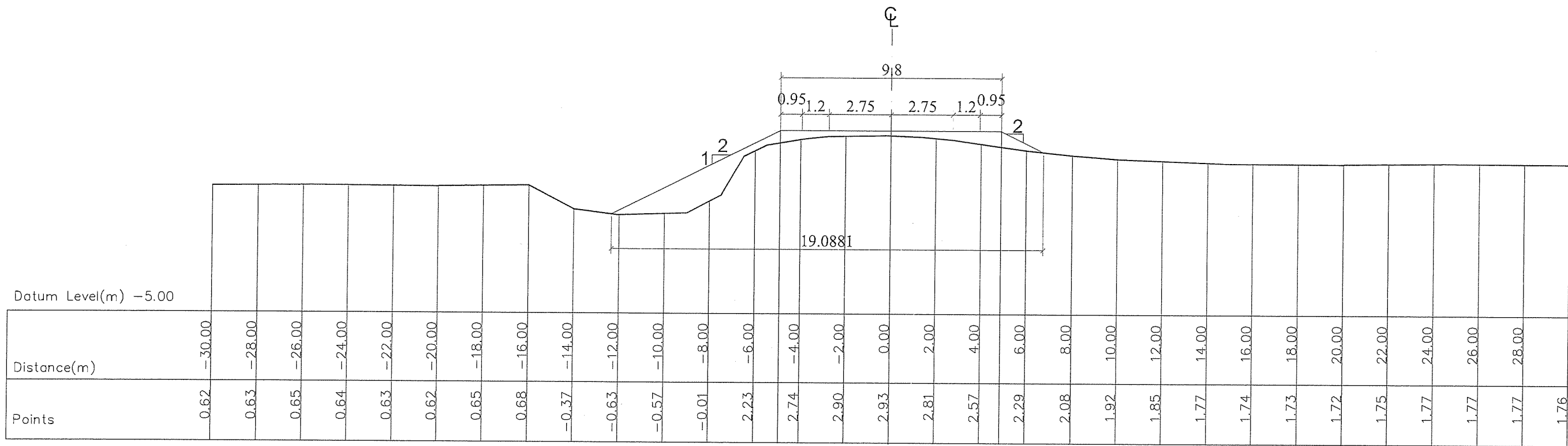
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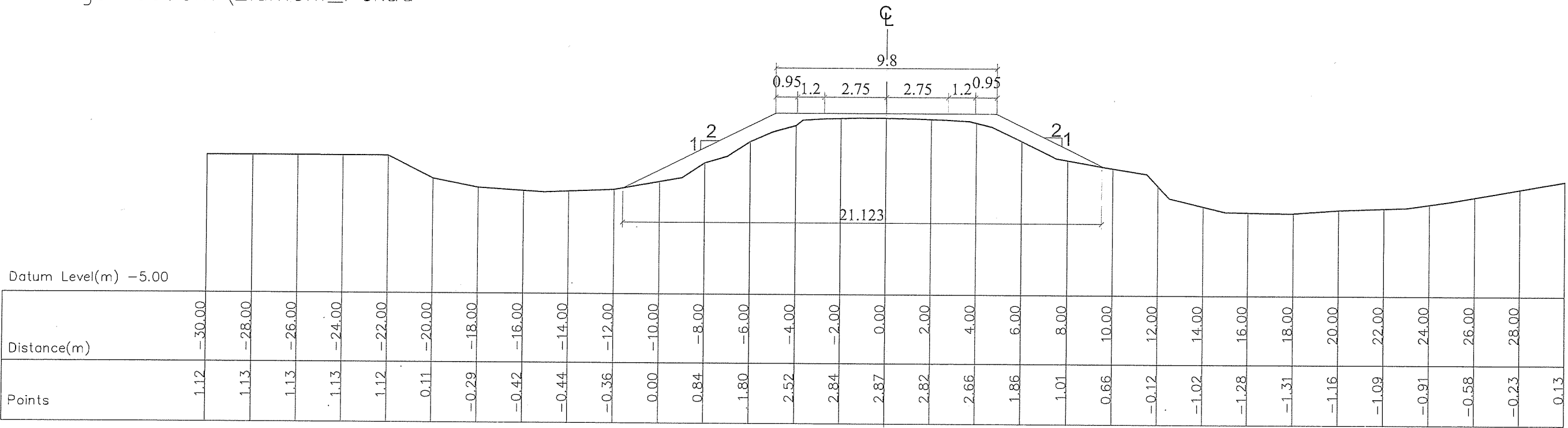
AUGUST, 2013

DRAWING NO.

CS/DWG-03 of 54



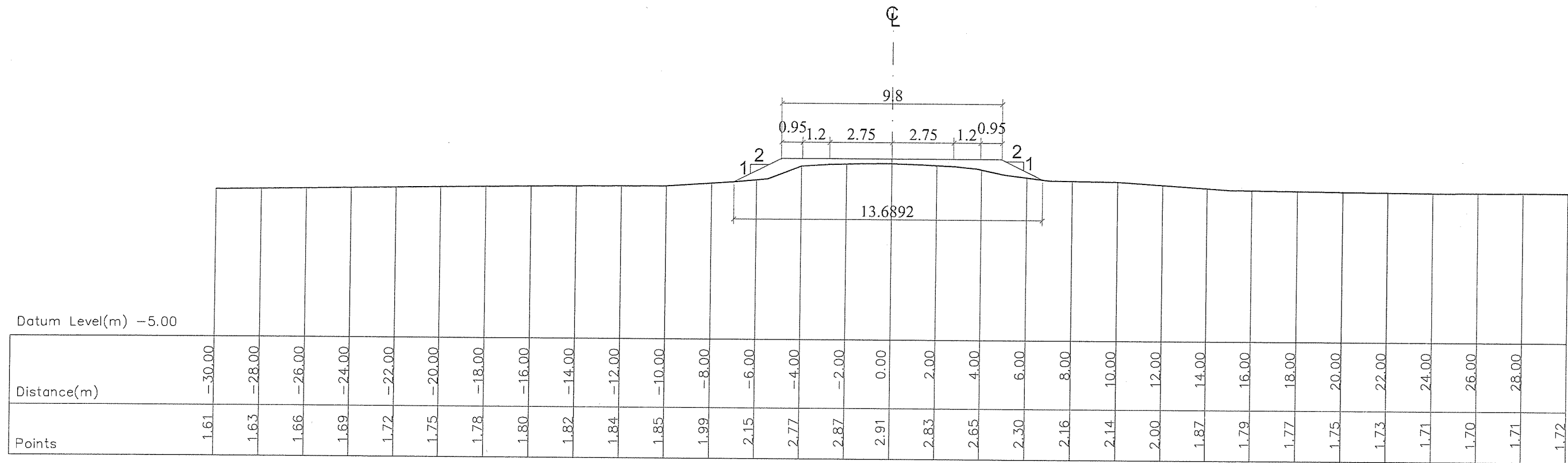
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REV.	DESCRIPTION	DATE

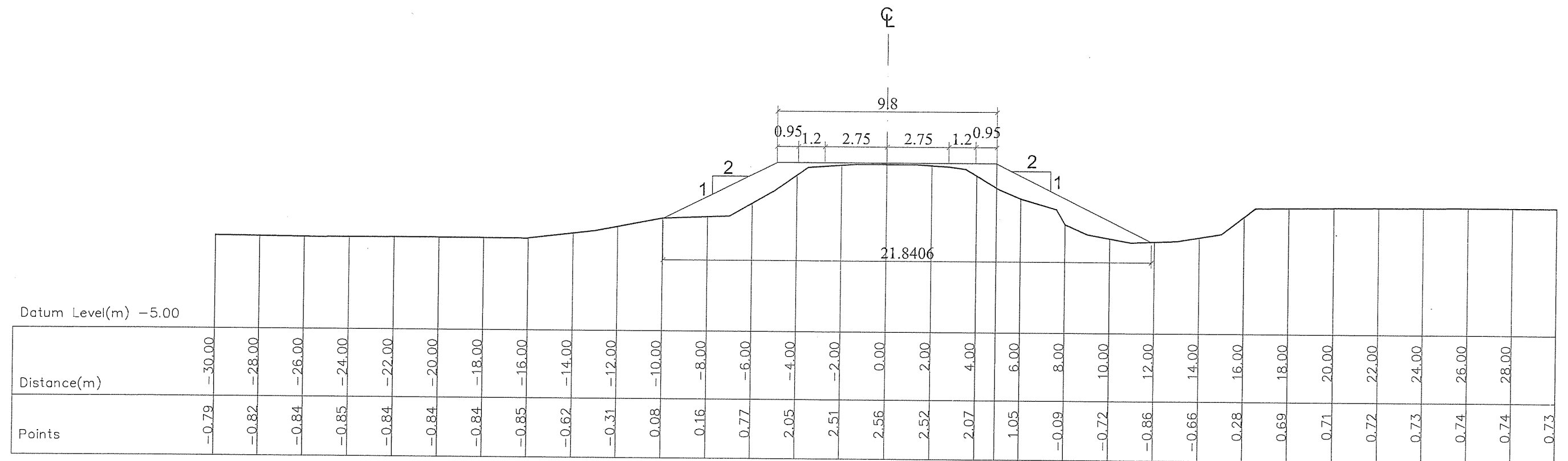
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION EIDMONI TO PEKUA	1:200	AUGUST, 2013	CS/DWG-05 of 54



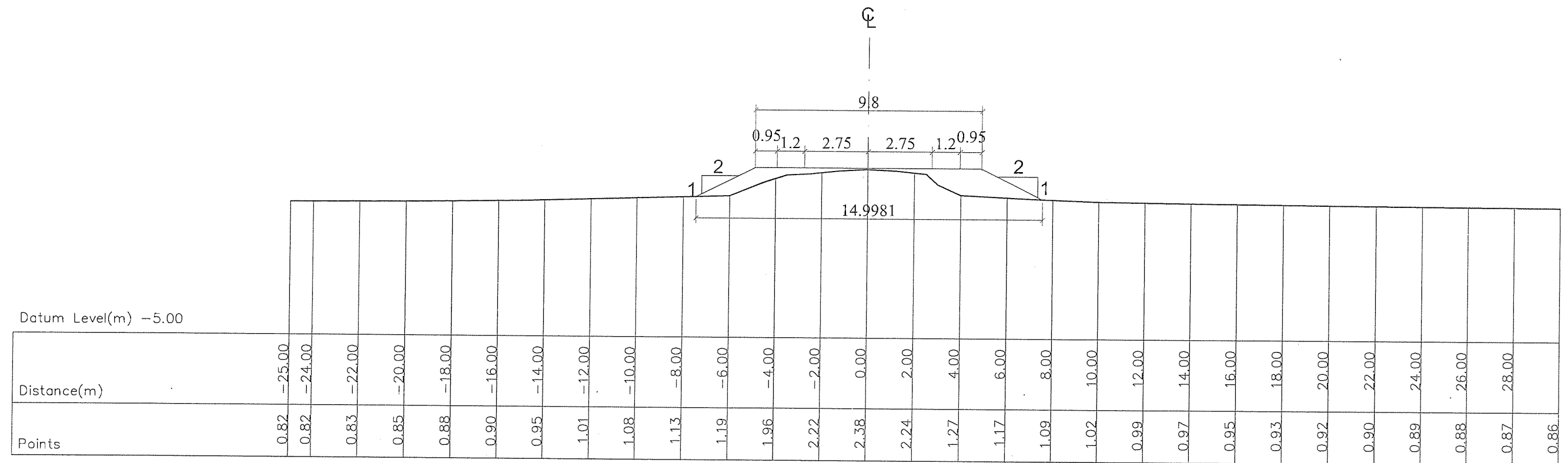
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REV.	DESCRIPTION	DATE
	SCALE :	DATE :
		DRAWING NO.

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION EIDMONI TO PEKUA	1:200	AUGUST, 2013	CS/DWG-06 of 54



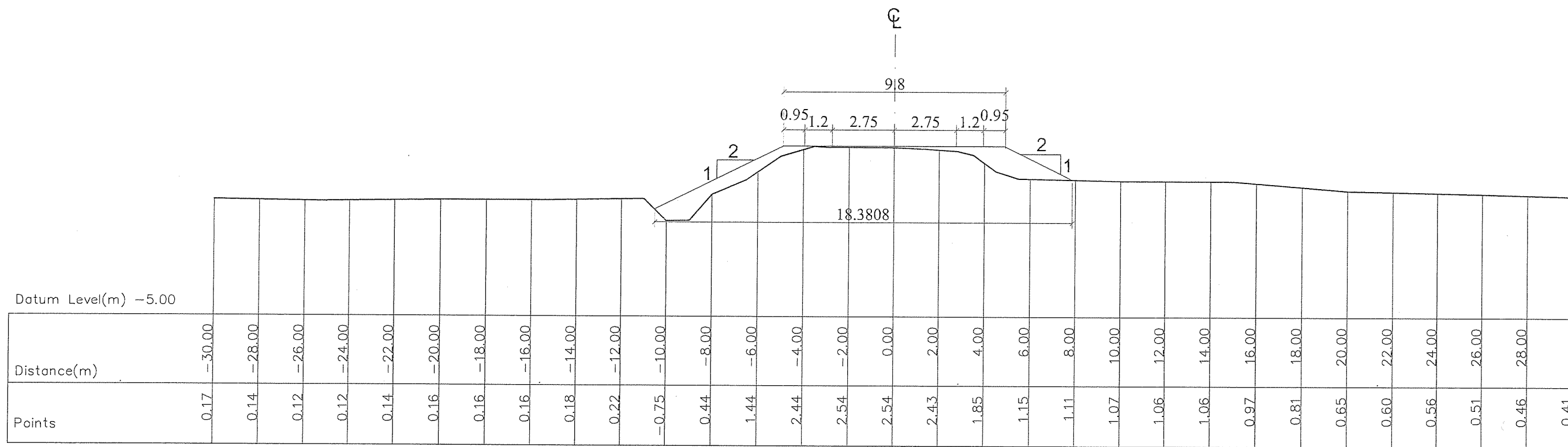
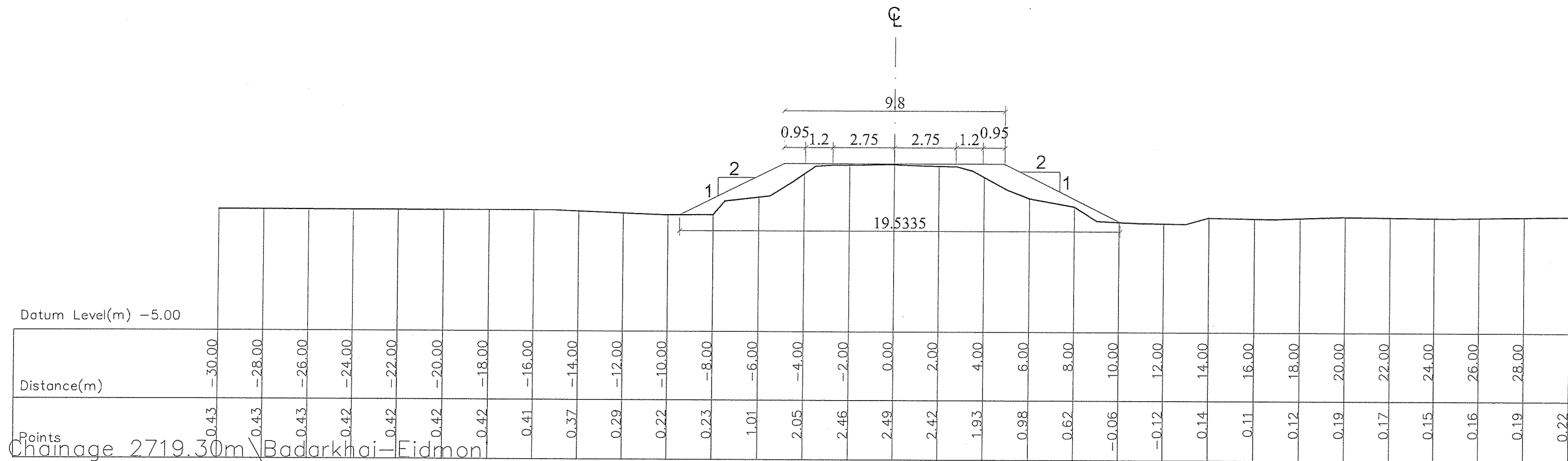
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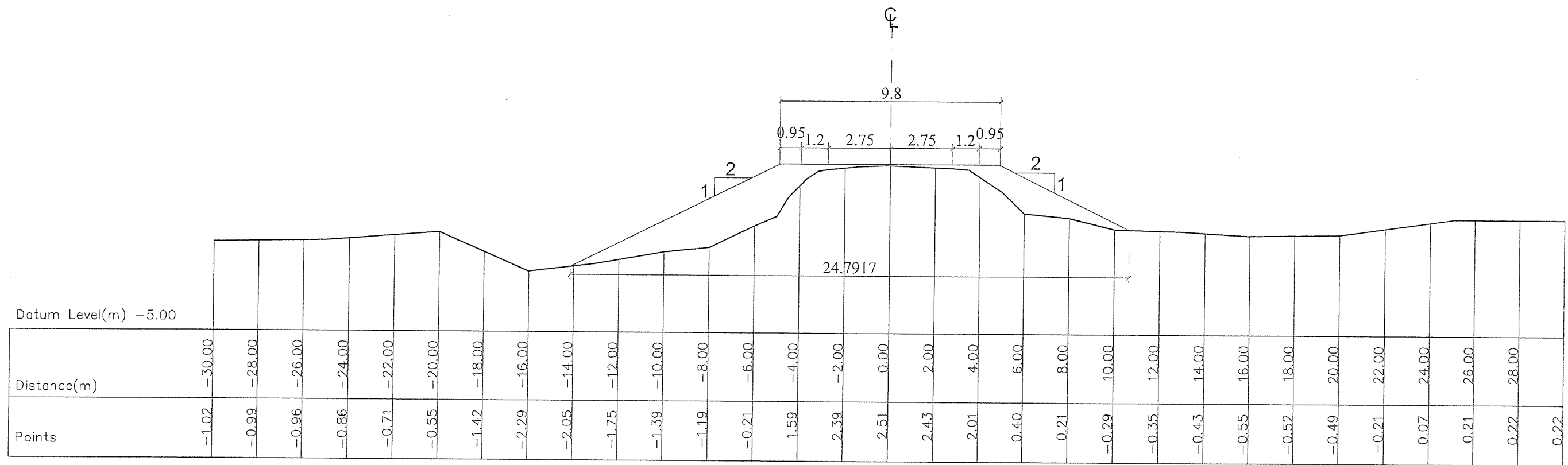
REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO EIDMONI	1:200	AUGUST, 2013	CS/DWG-07 of 54

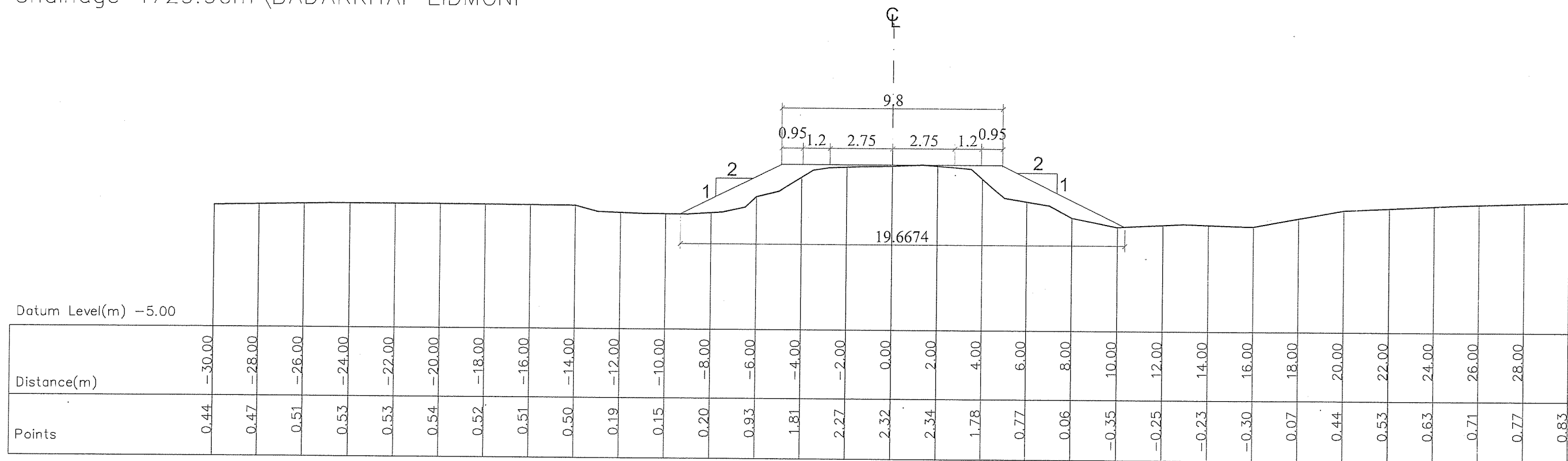


REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO EIDMONI	1:200	AUGUST, 2013	CS/DWG-08 of 54



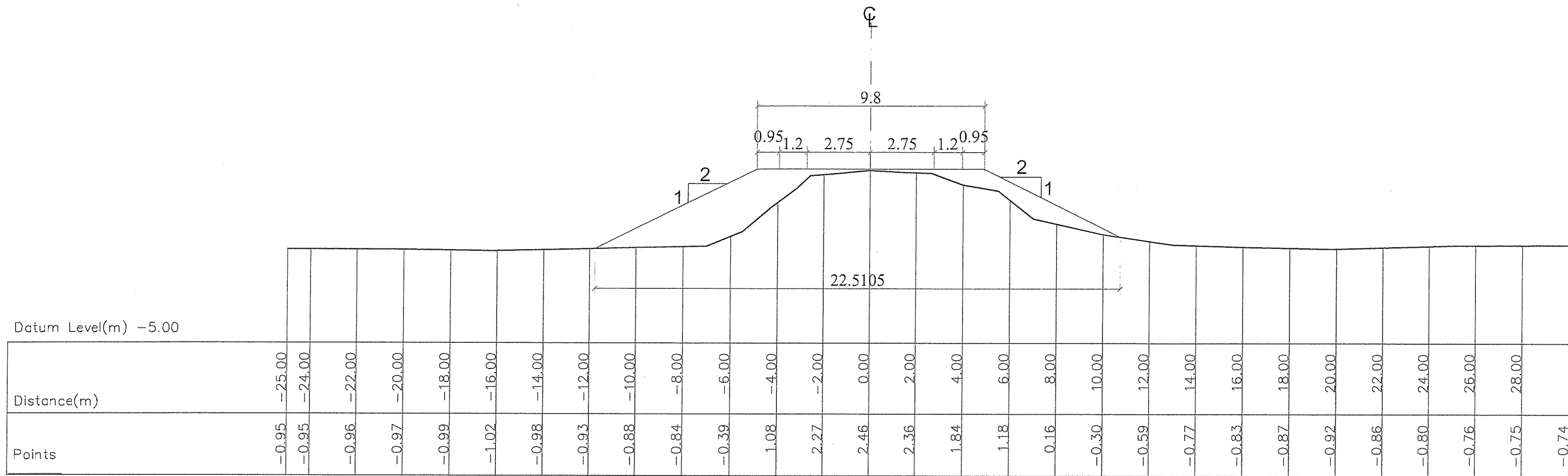
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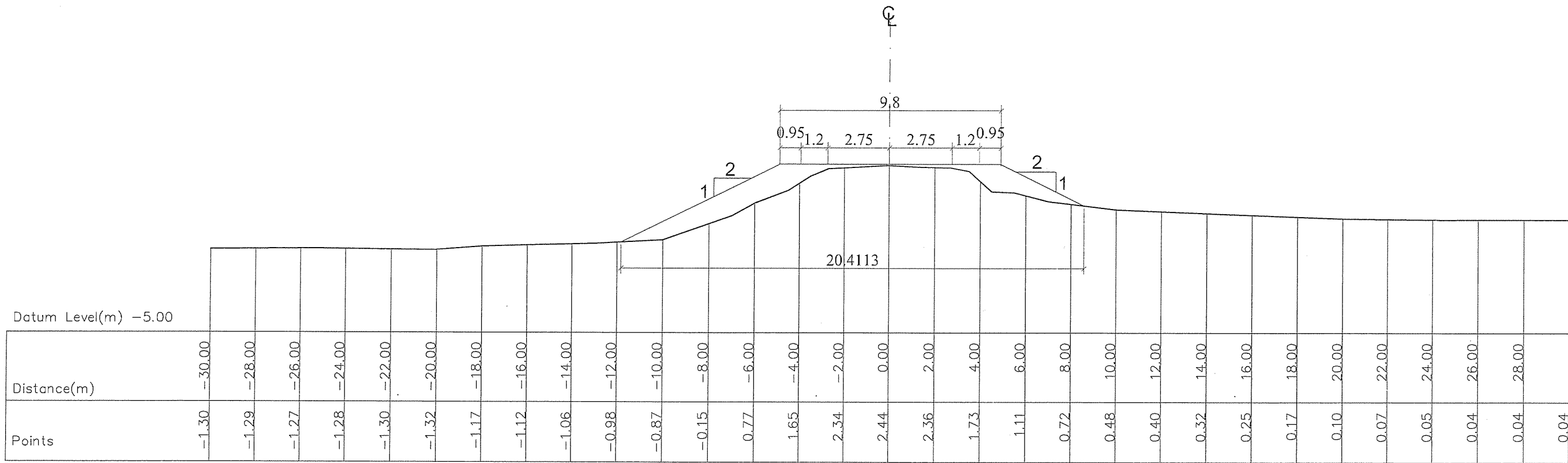
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REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO EIDMONI	1:200	AUGUST, 2013	CS/DWG-09 of 54



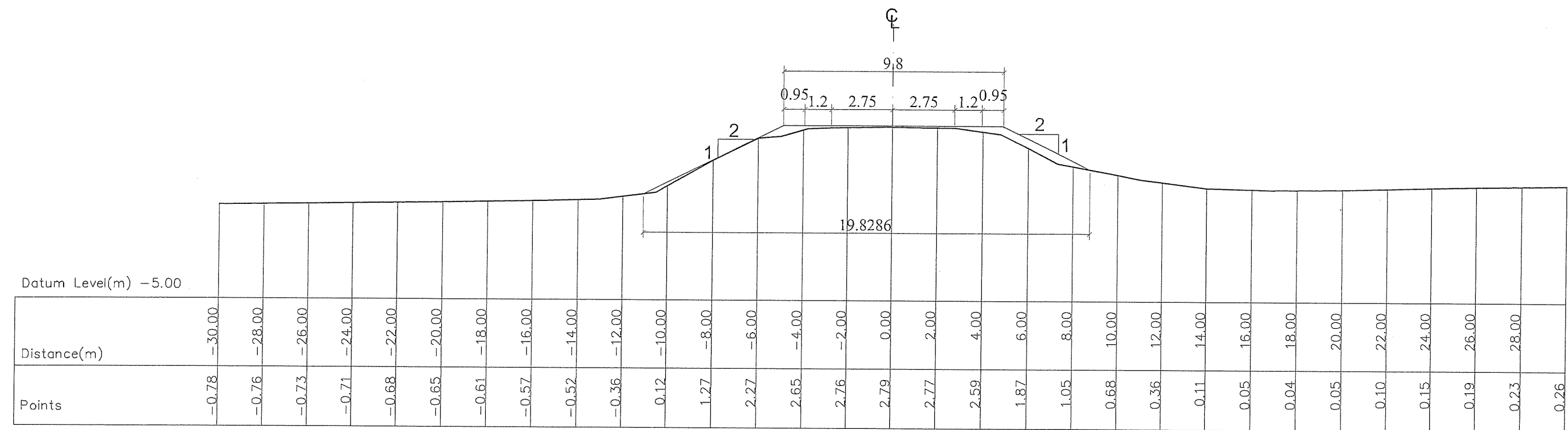
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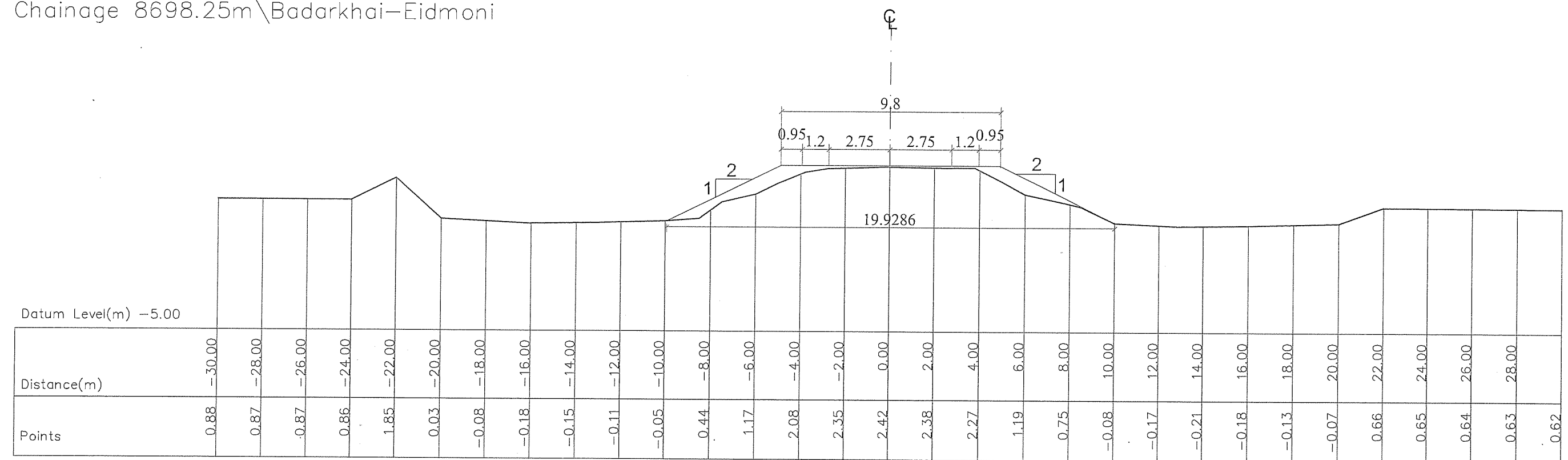
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REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO EIDMONI	1:200	AUGUST, 2013	CS/DWG-10 of 54



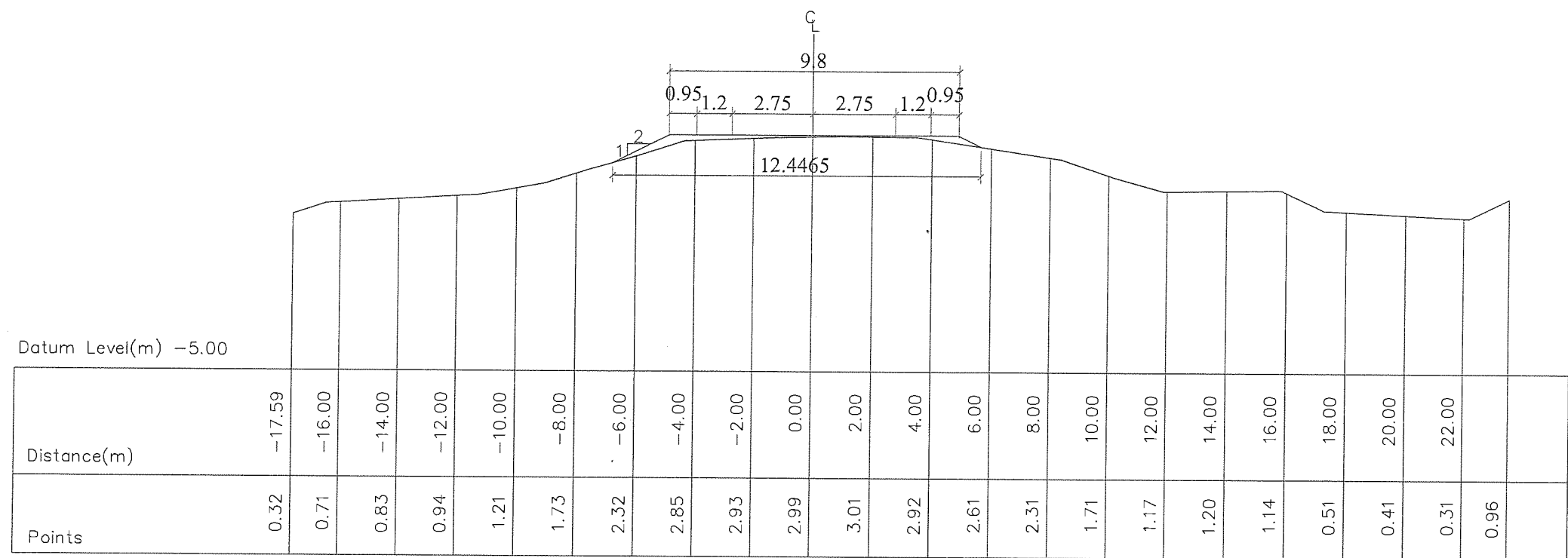
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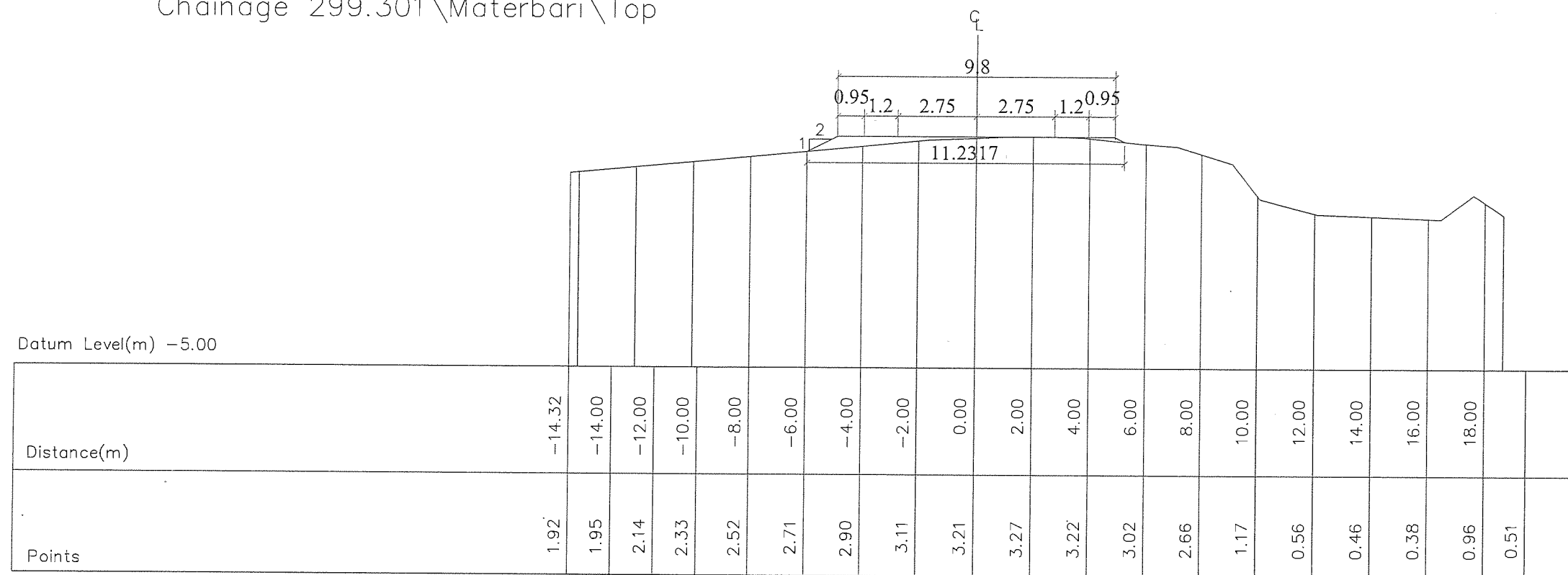
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REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO EIDMONI	1:200	AUGUST, 2013	CS/DWG-11 of 54



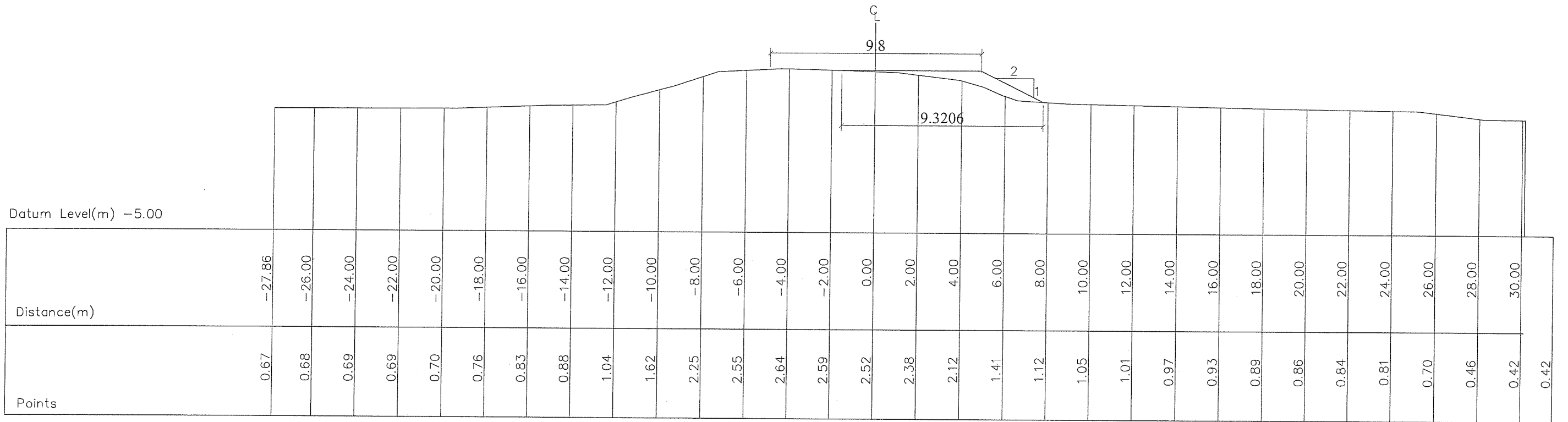
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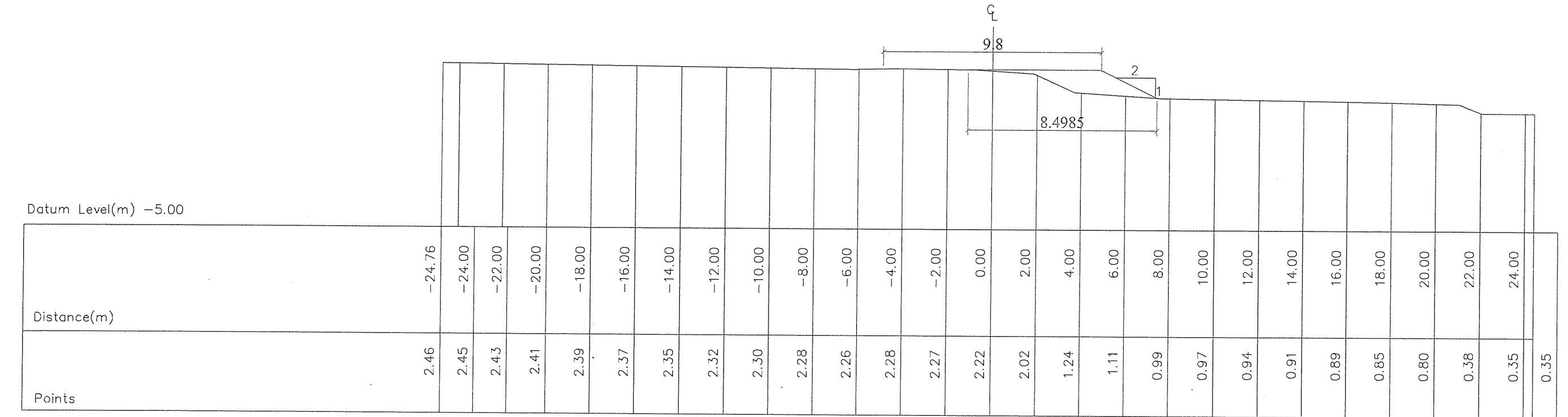
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REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-13 of 54



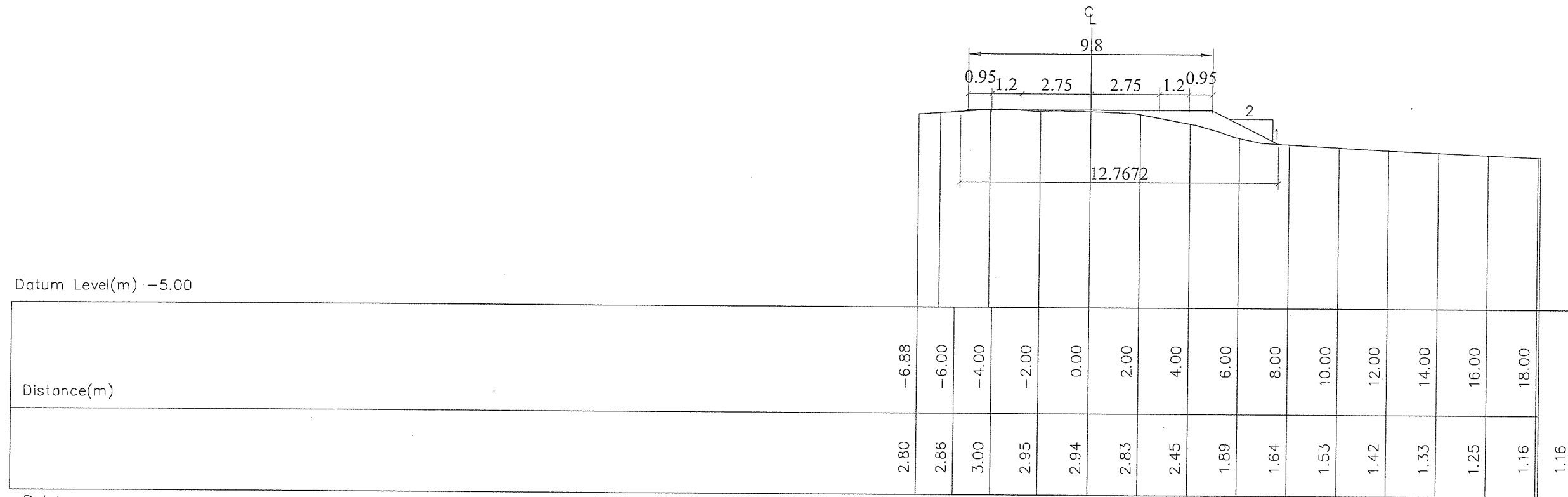
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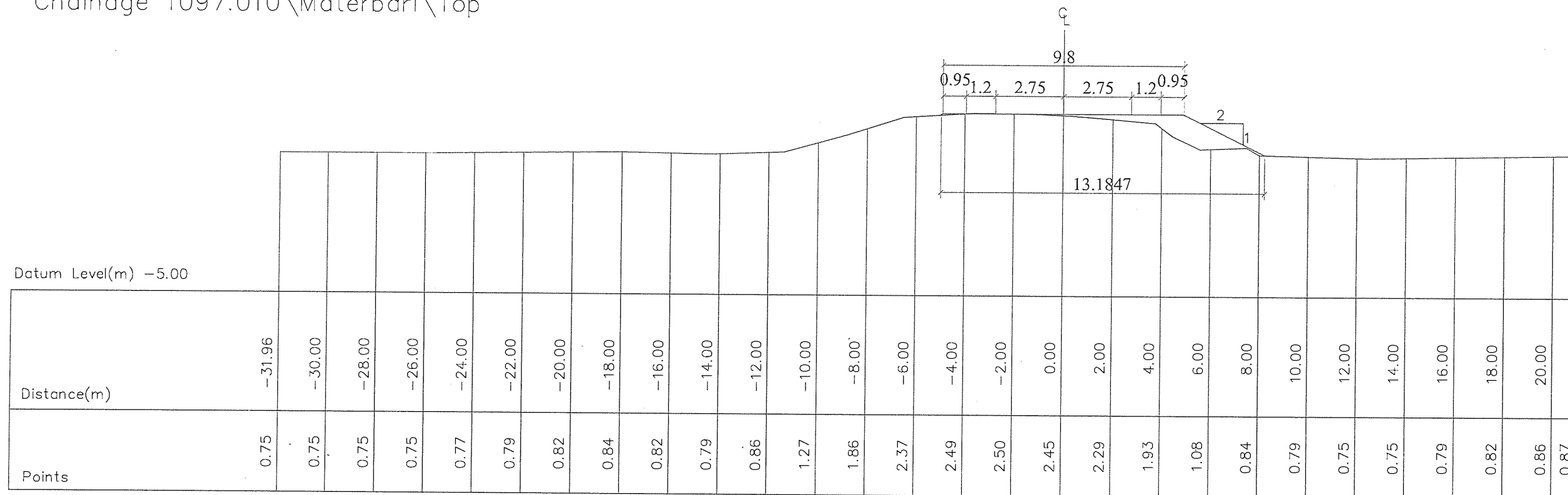
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REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-16 of 54



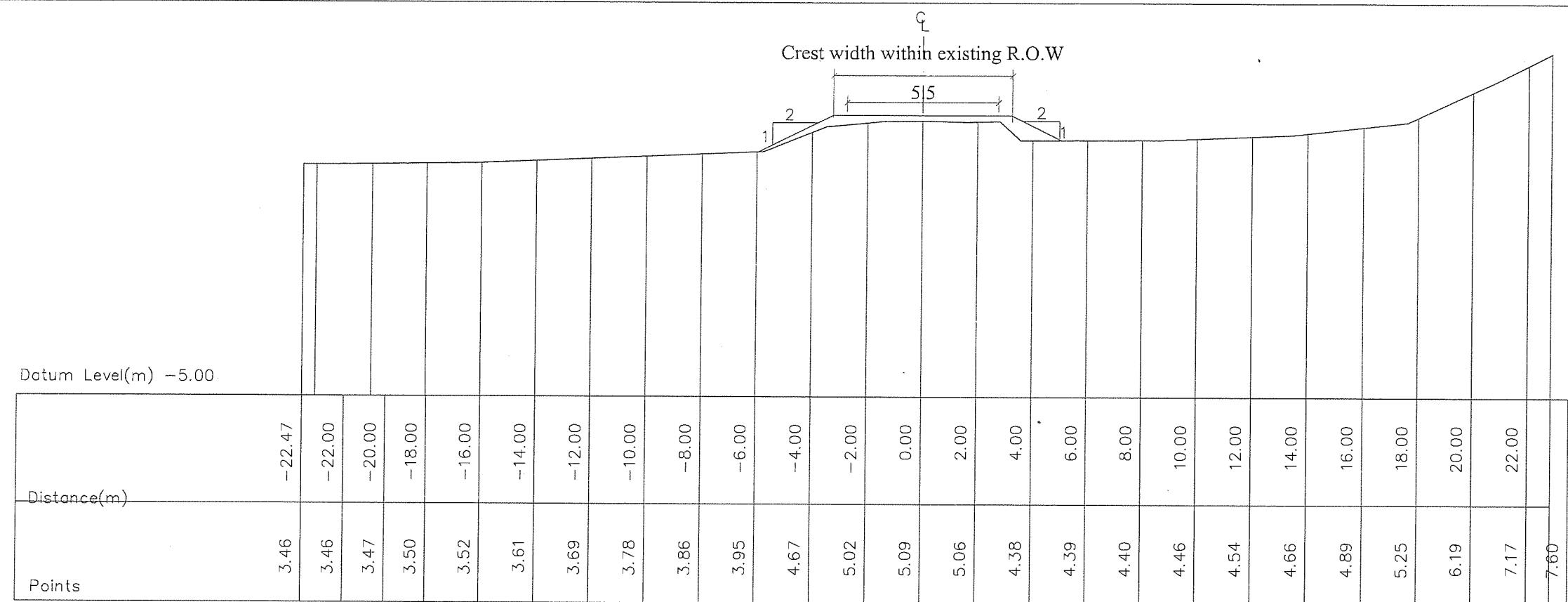
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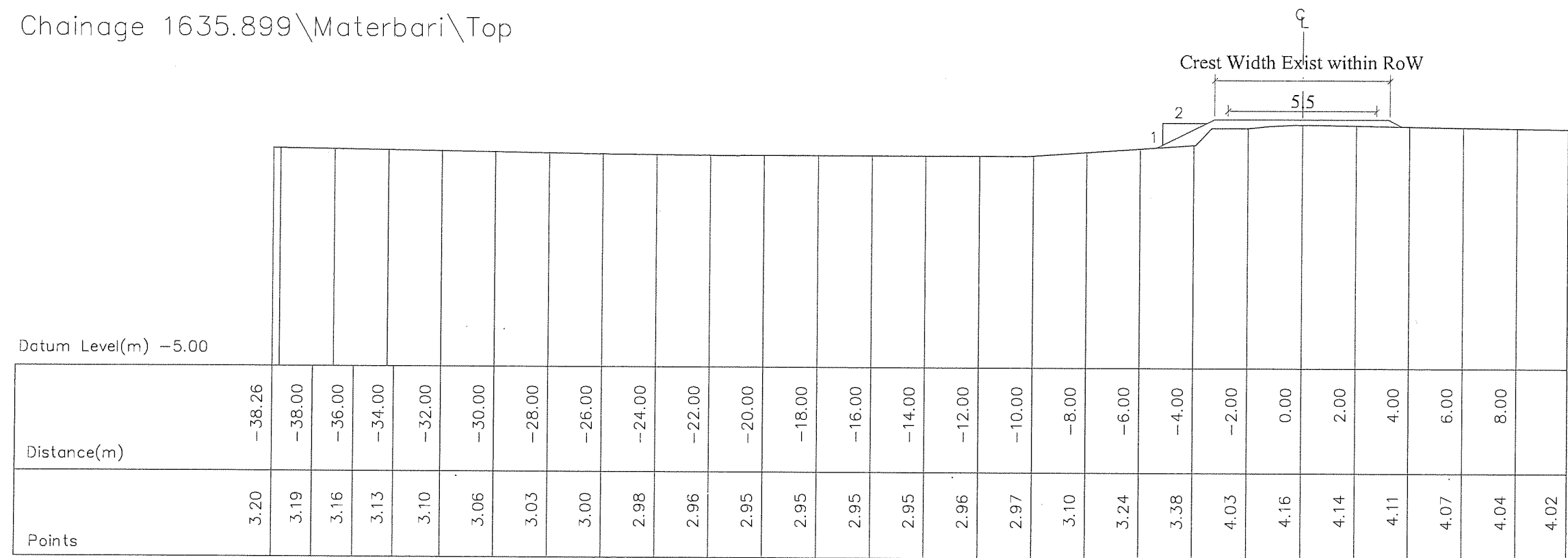
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REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-17 of 54



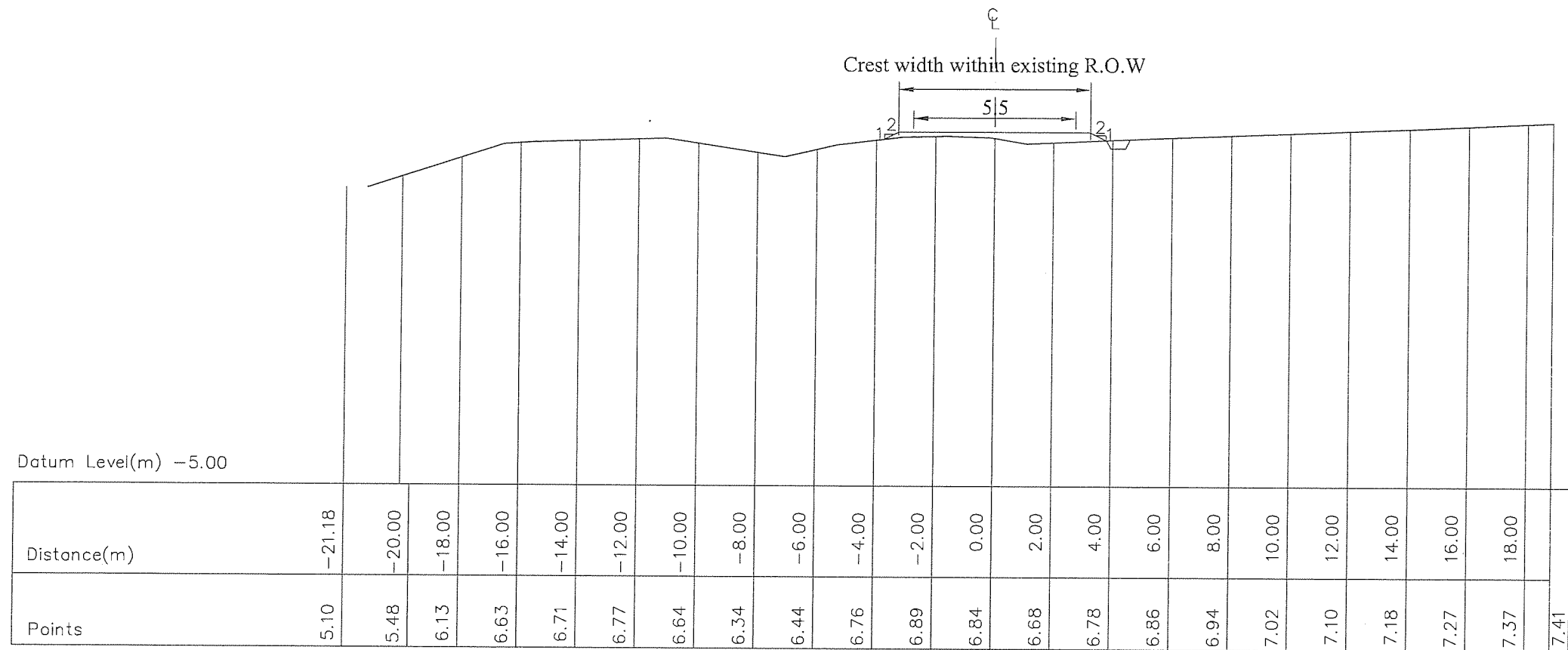
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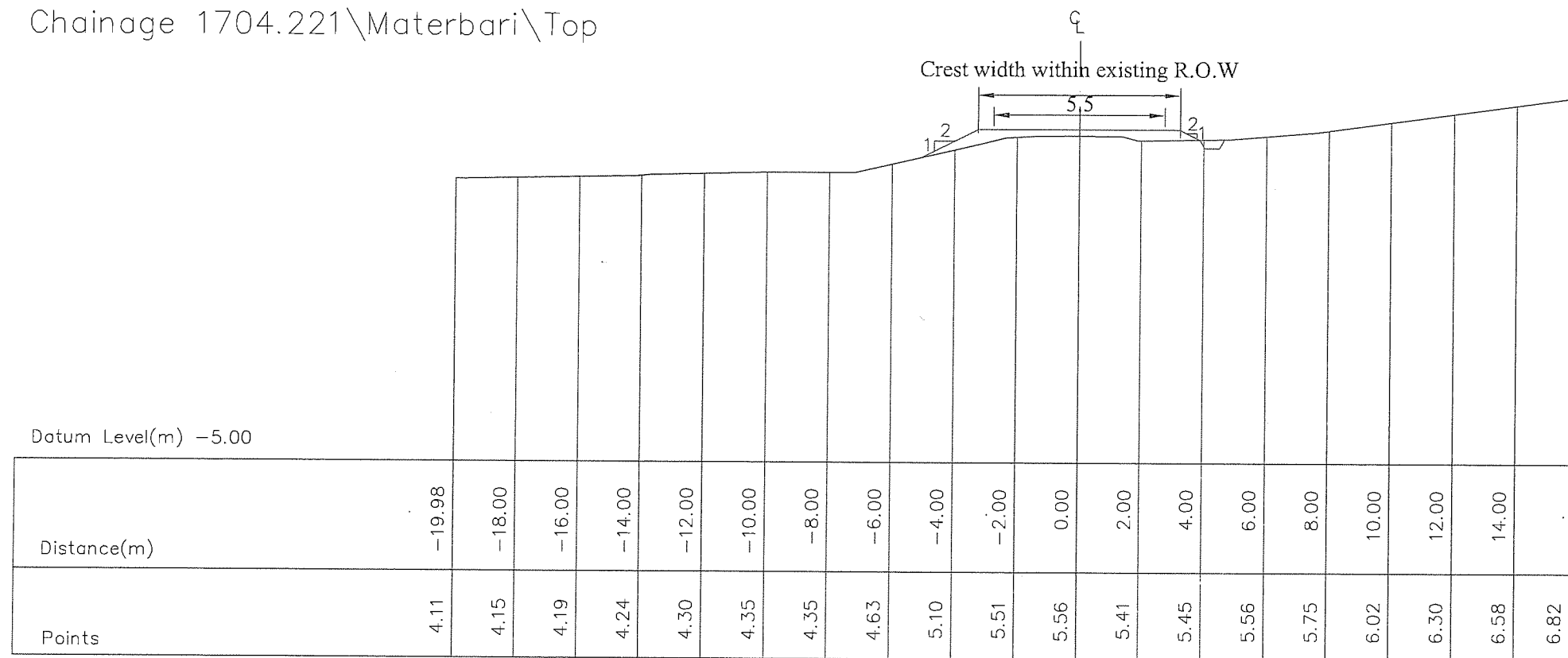
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REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-20 of 54



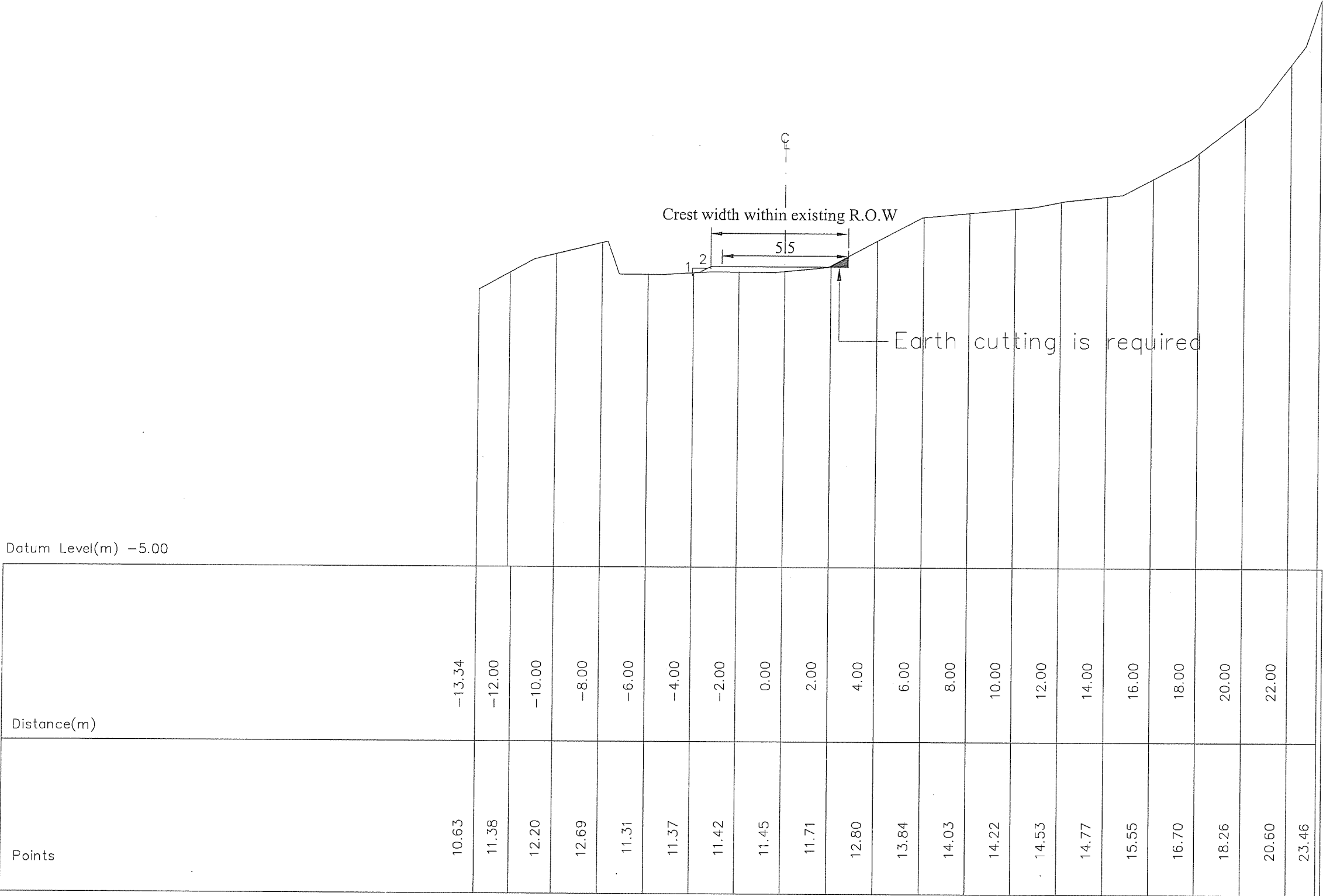
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REV.	DESCRIPTION	DATE

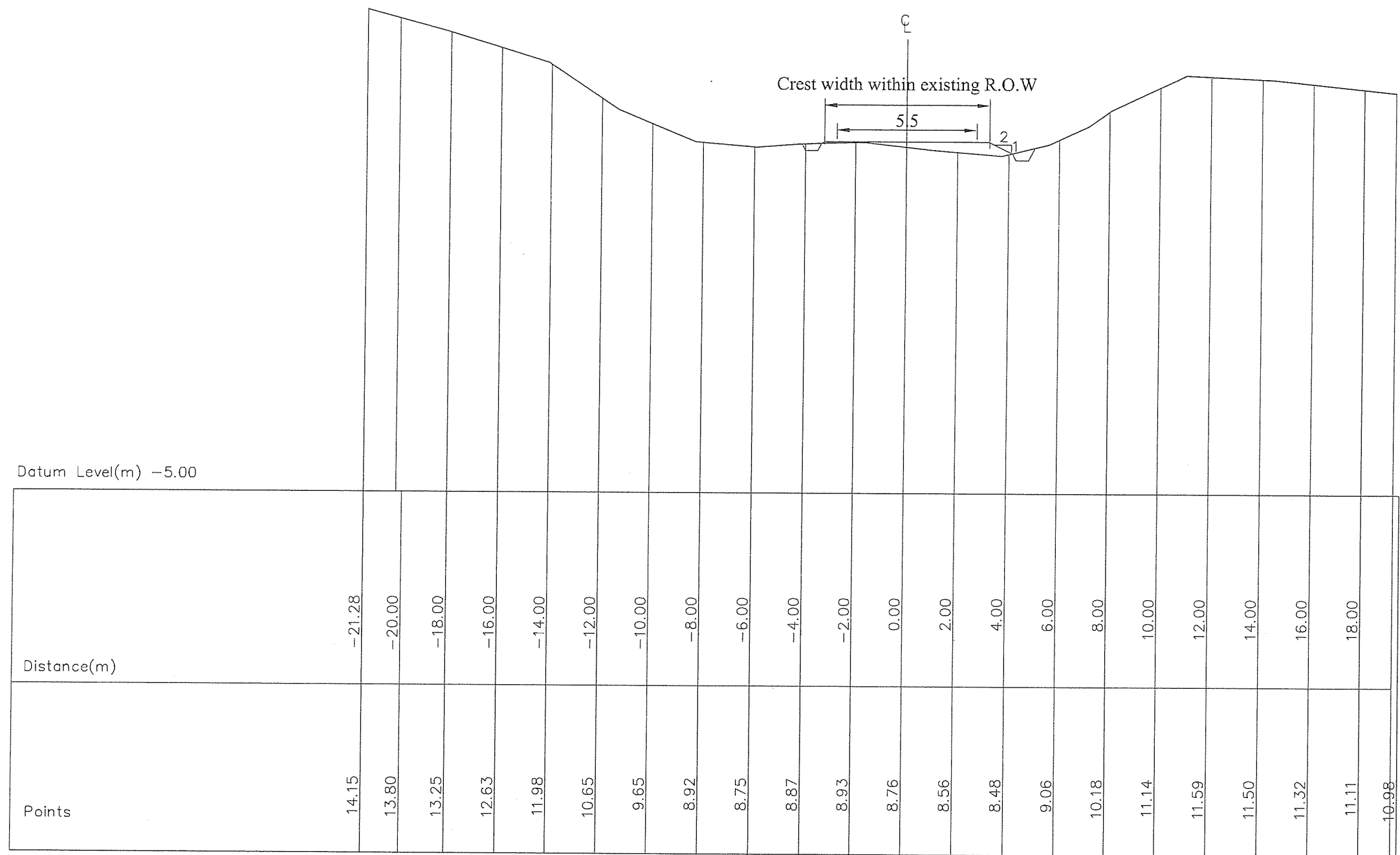
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			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-21 of 54



Chainage 1875.256\Materbari\Top

REV.	DESCRIPTION	DATE

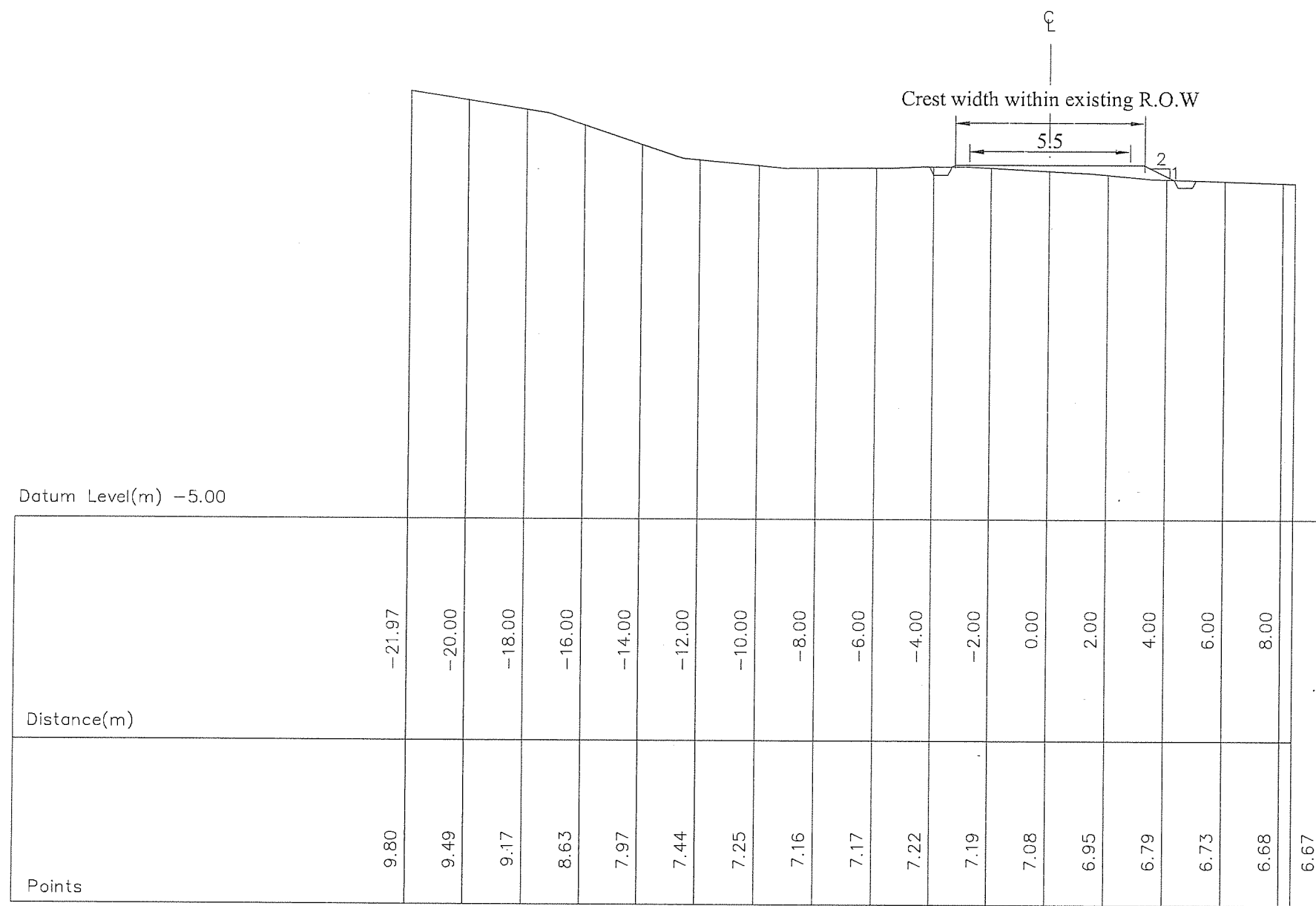
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			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-23 of 54



Chainage 1976.360\Materbari\Top

REV.	DESCRIPTION	DATE

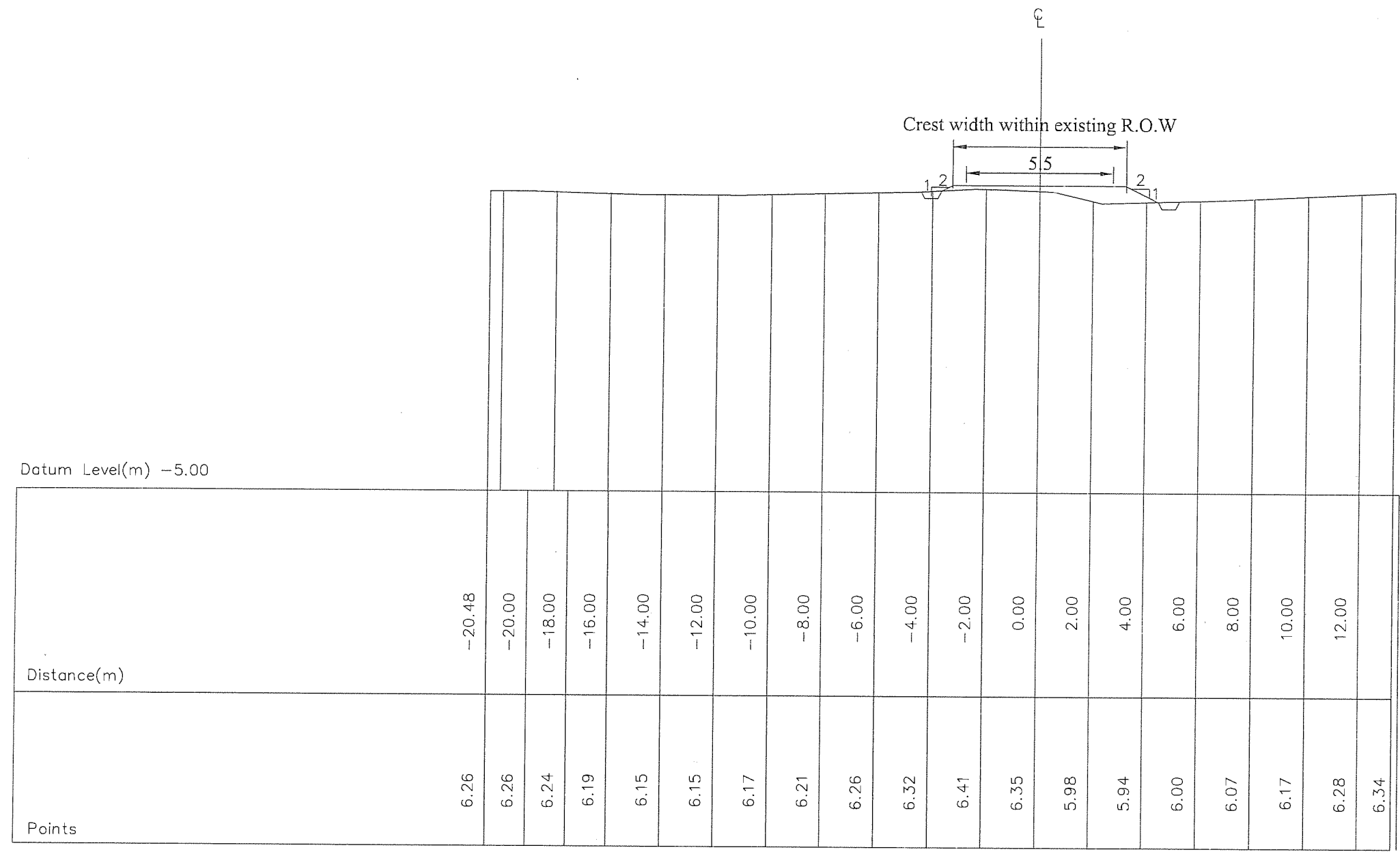
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-24 of 54



Chainage 2009.976\Materbari\Top

REV.	DESCRIPTION	DATE

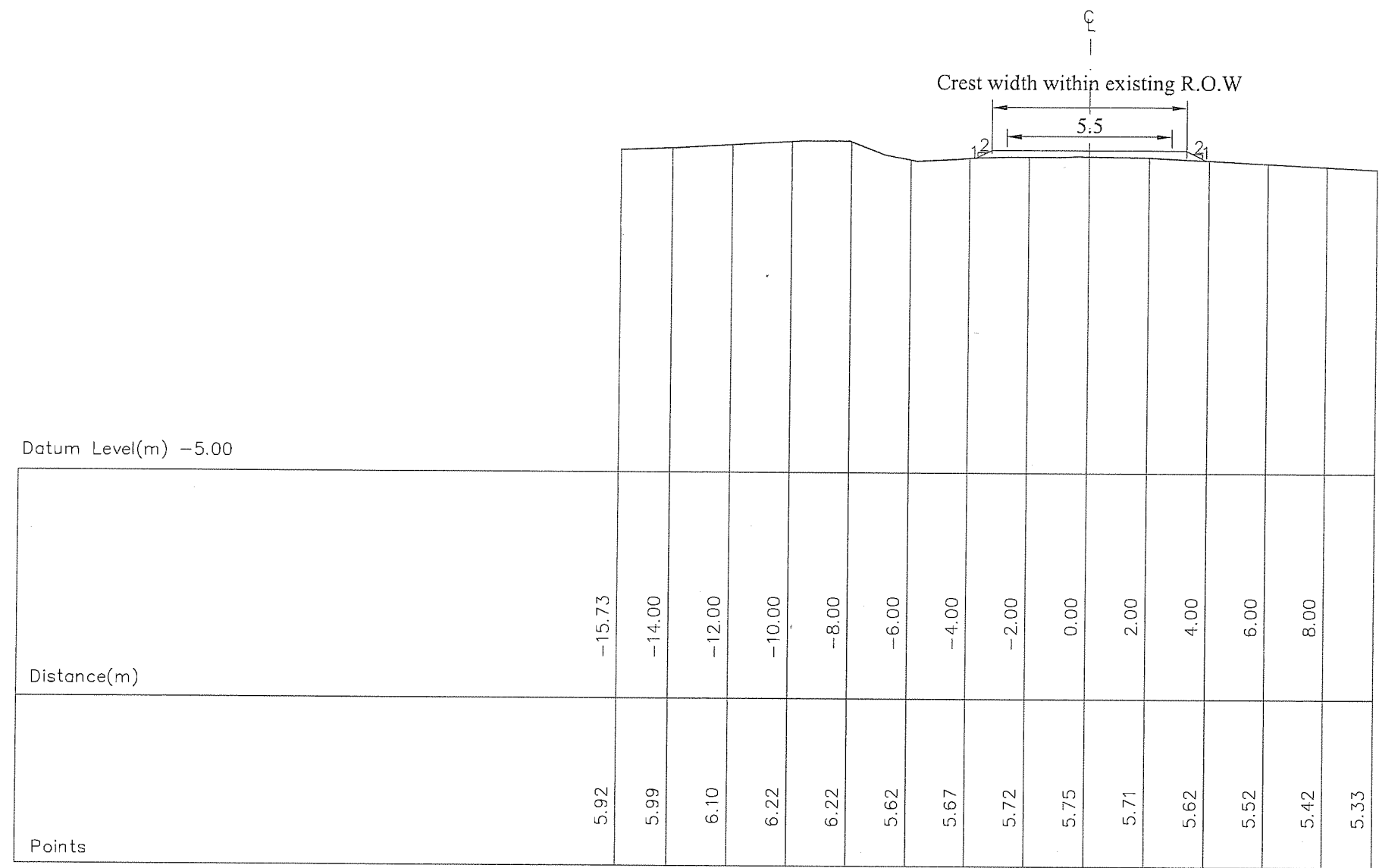
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			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-25 of 54



Chainage 2078.105\Materbari\Top

REV.	DESCRIPTION	DATE
	SCALE :	DATE :
		DRAWING NO.

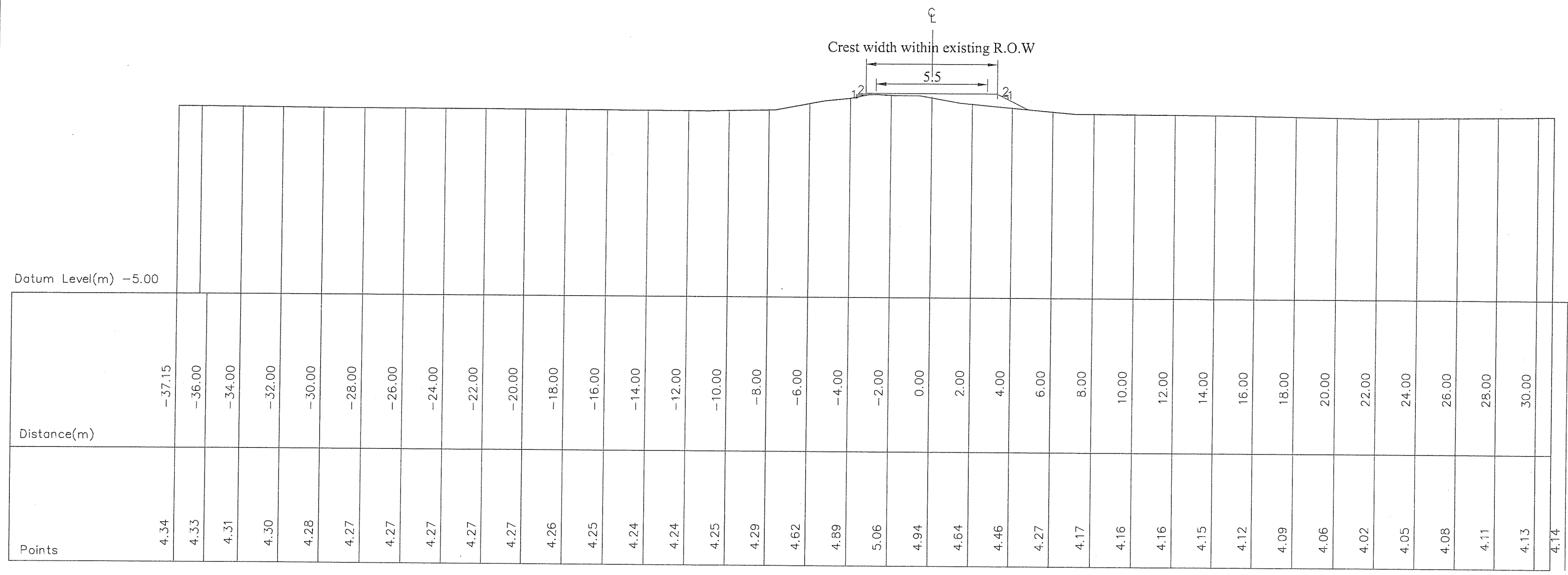
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			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-26 of 54



Chainage 2282.321\Materbari\Top

REV.	DESCRIPTION	DATE

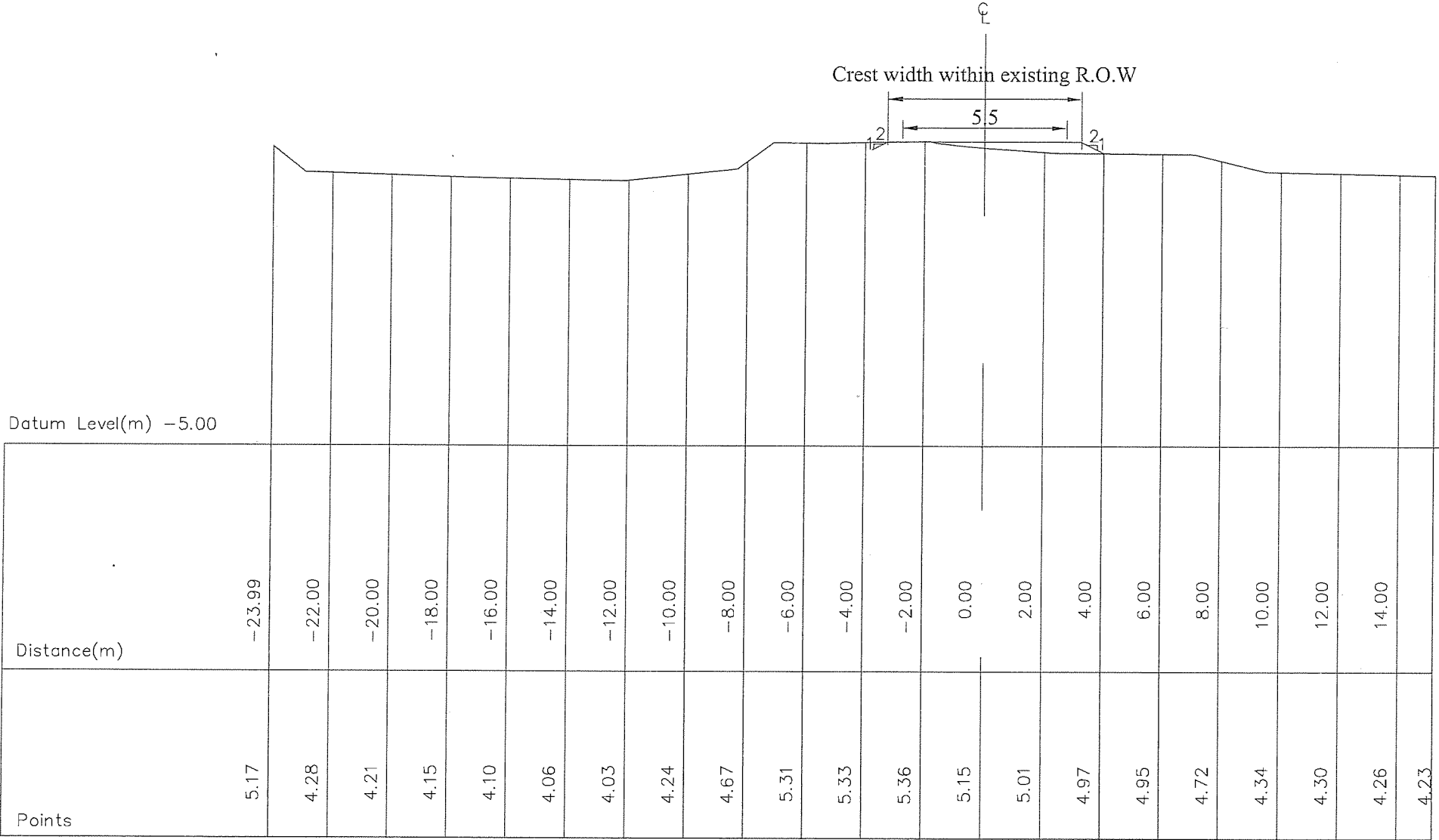
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-27 of 54



Chainage 2384.005\Materbari\Top

REV.	DESCRIPTION	DATE

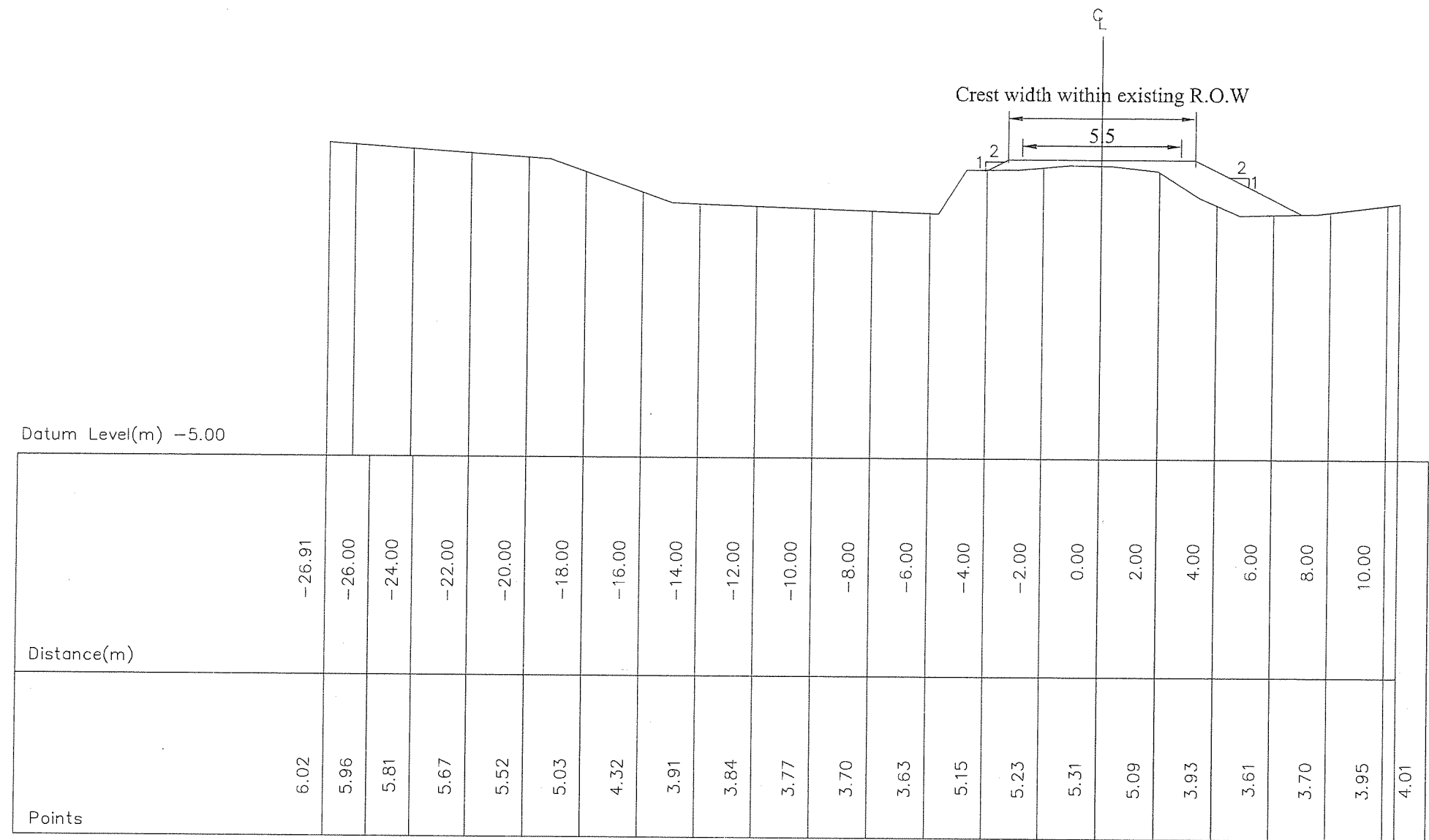
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-28 of 54



Chainage 2478.525\Materbari\Top

REV.	DESCRIPTION	DATE

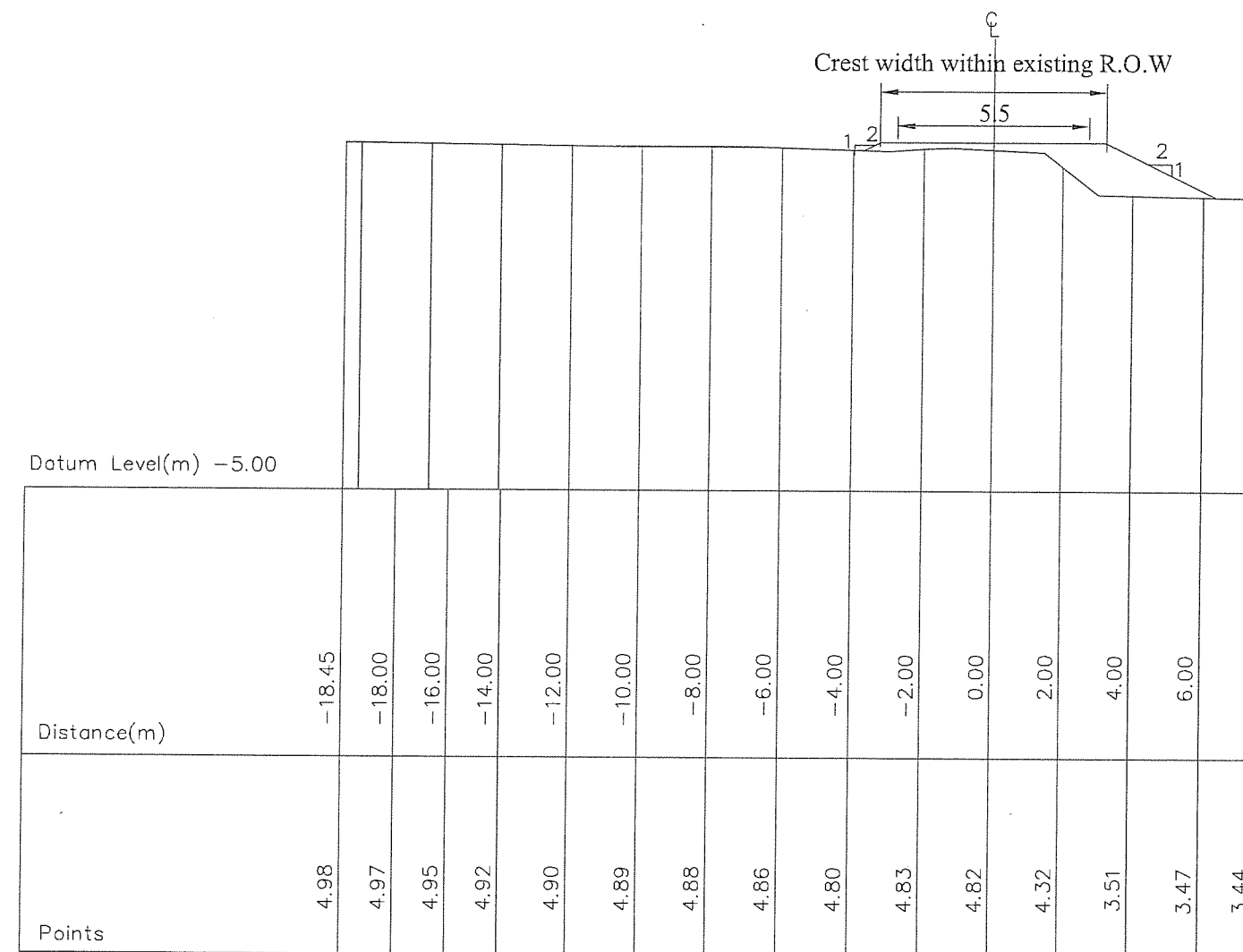
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			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-29 of 54



Chainage 2581.518\Materbari\Top

REV.	DESCRIPTION	DATE

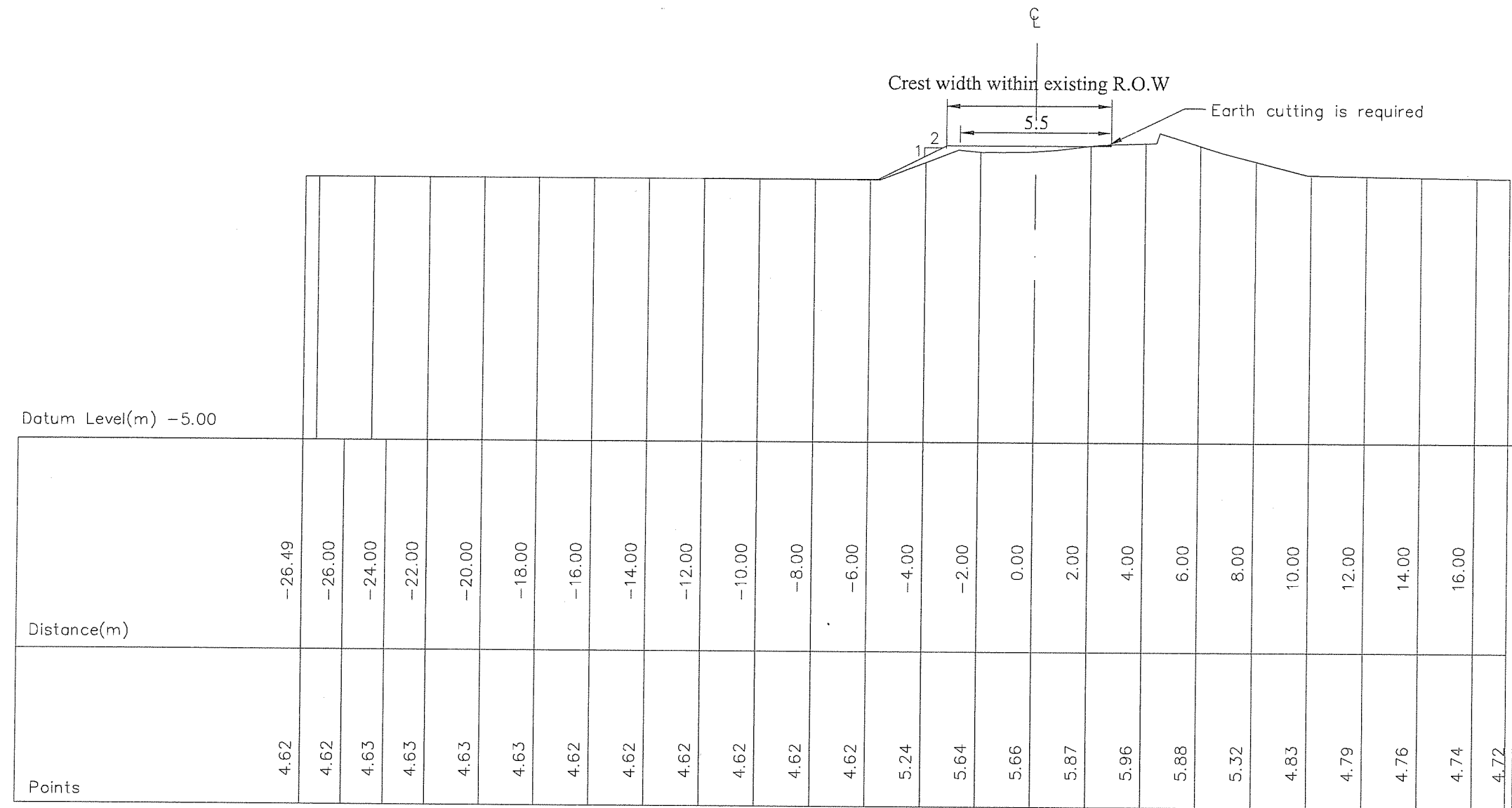
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-30 of 54



Chainage 2681.434\Materbari\Top

REV.	DESCRIPTION	DATE

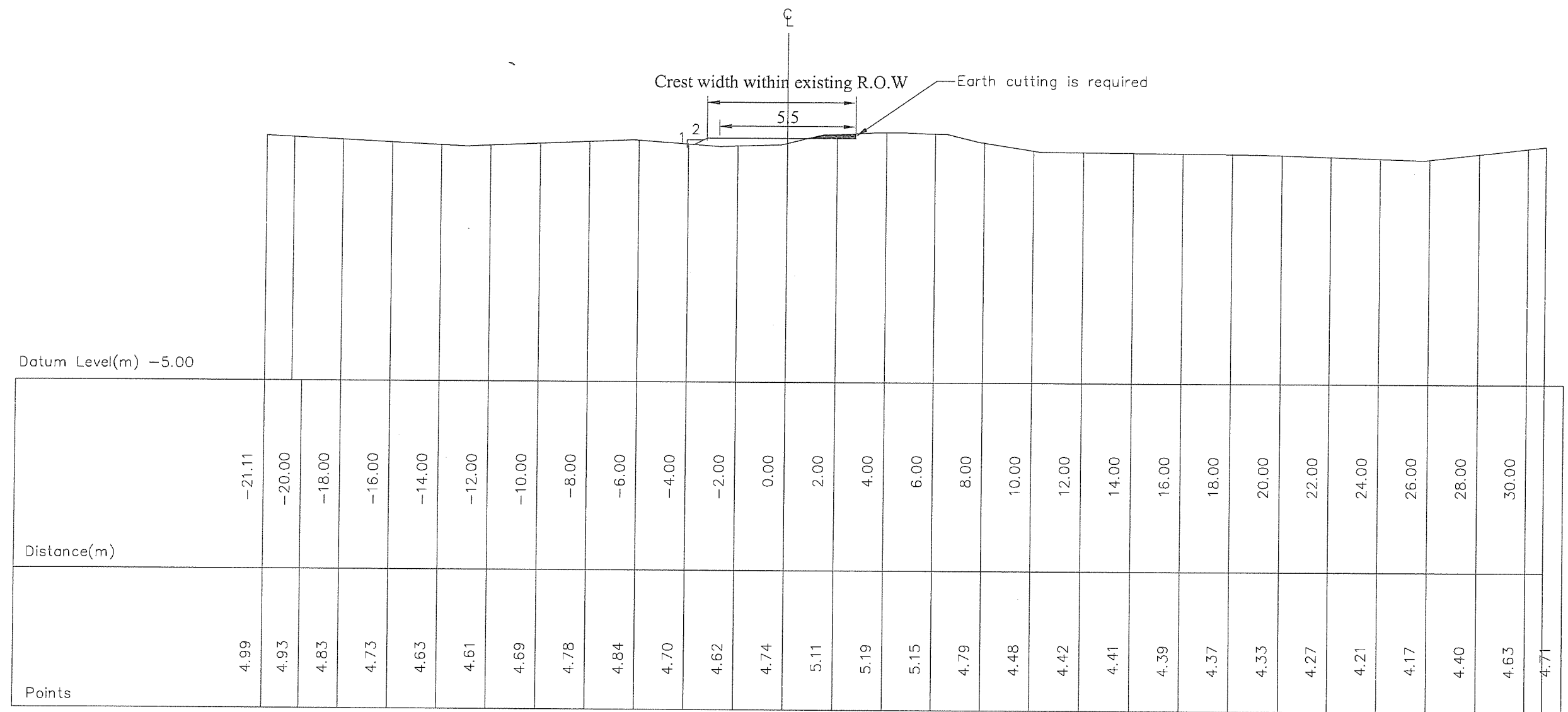
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			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-31 of 54



Chainage 2784.301\Materbari\Top

REV.	DESCRIPTION	DATE

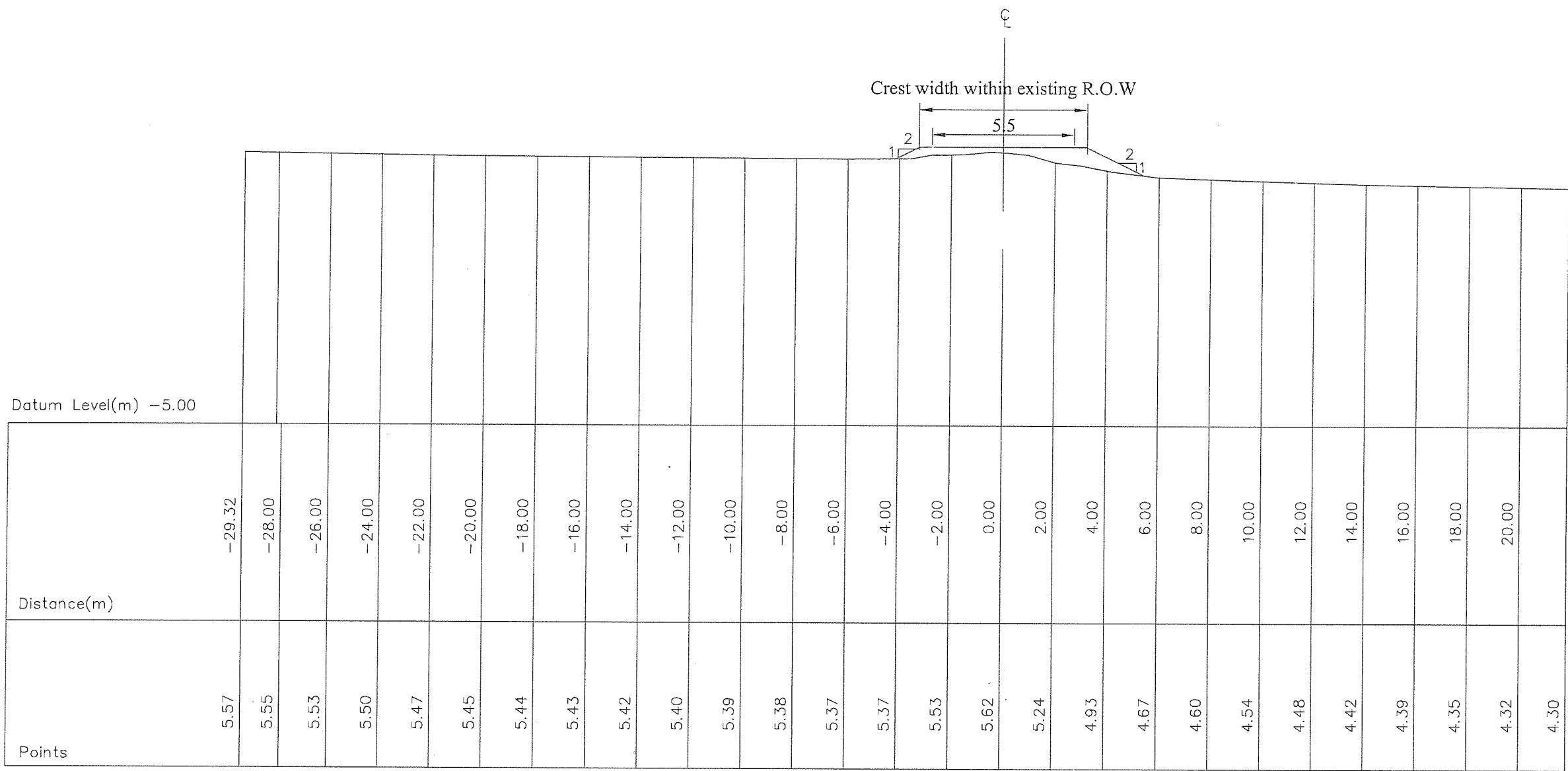
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			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-32 of 54



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REV.	DESCRIPTION	DATE

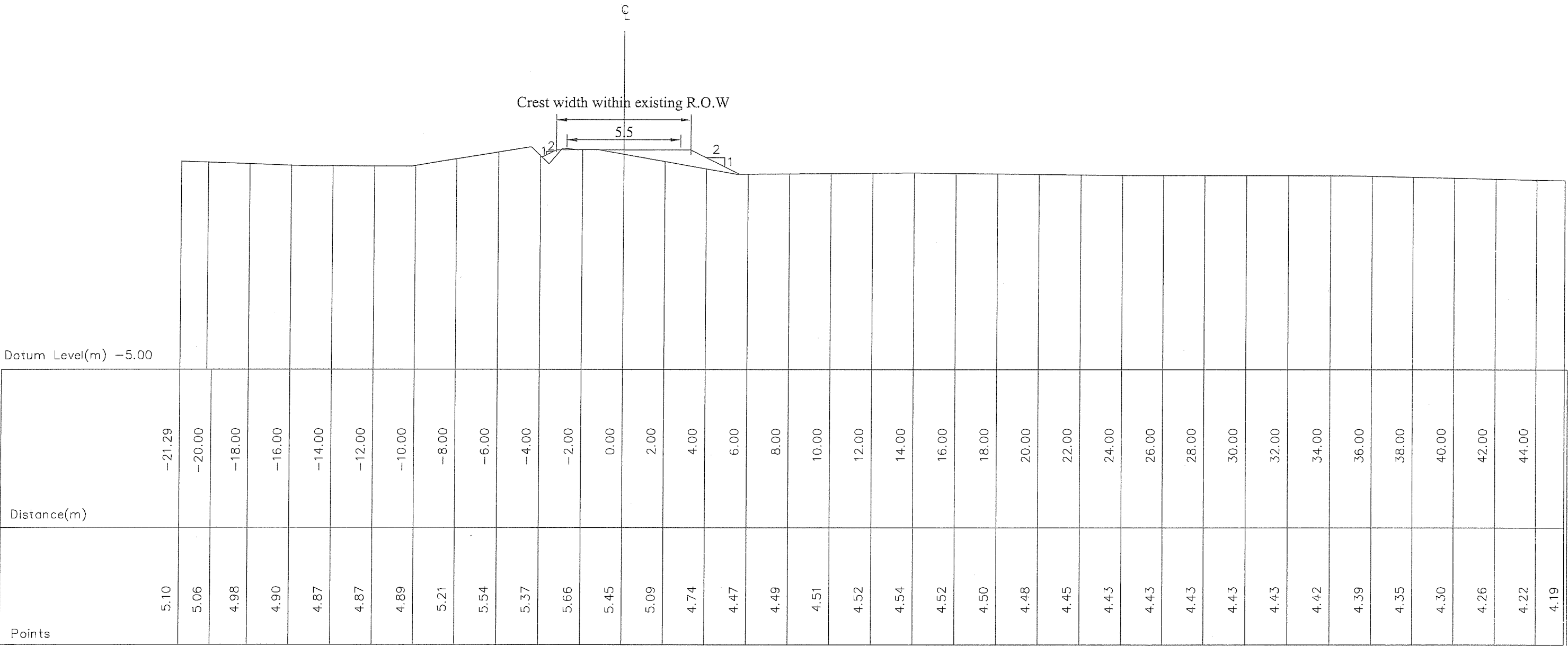
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-33 of 54



Chainage 2981.488\Materbari\Top

REV.	DESCRIPTION	DATE

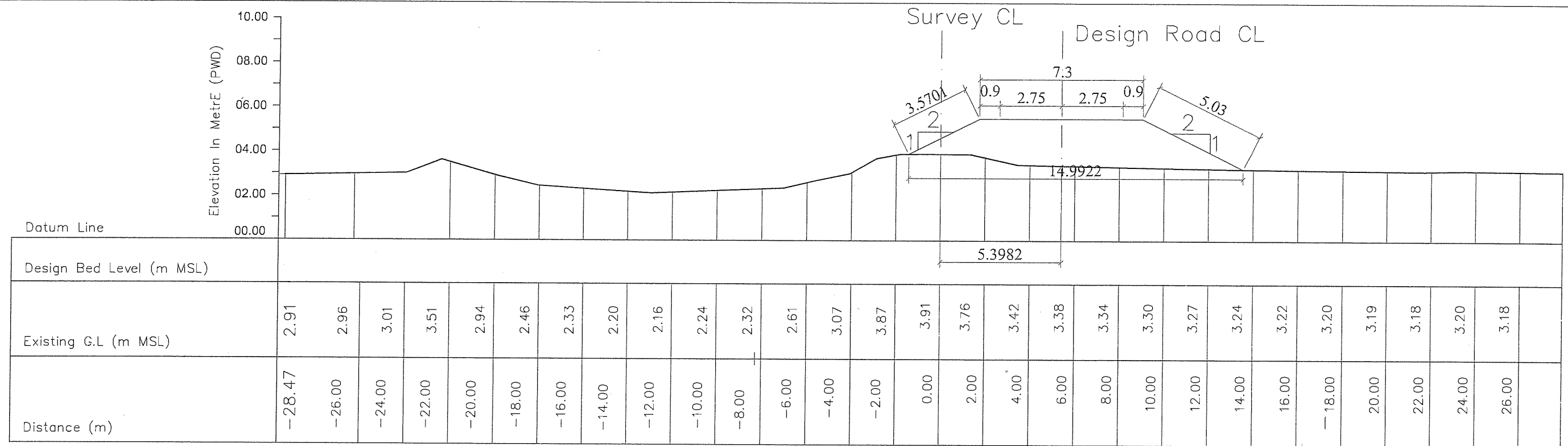
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-34 of 54



Chainage 3079.681\Materbari\Top

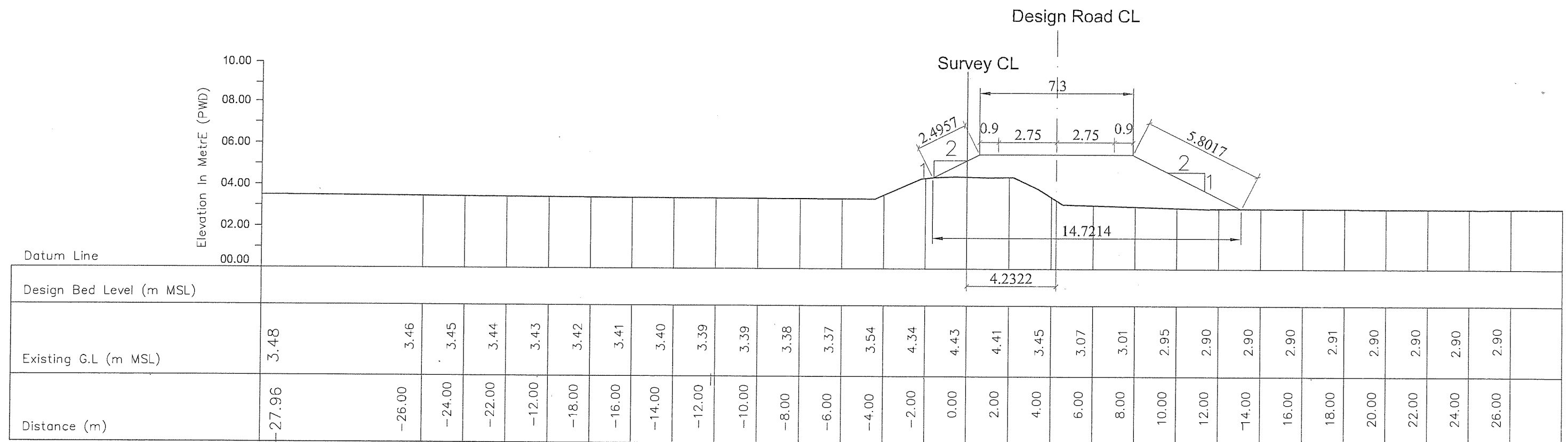
REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-35 of 54



CH. 3442.81m

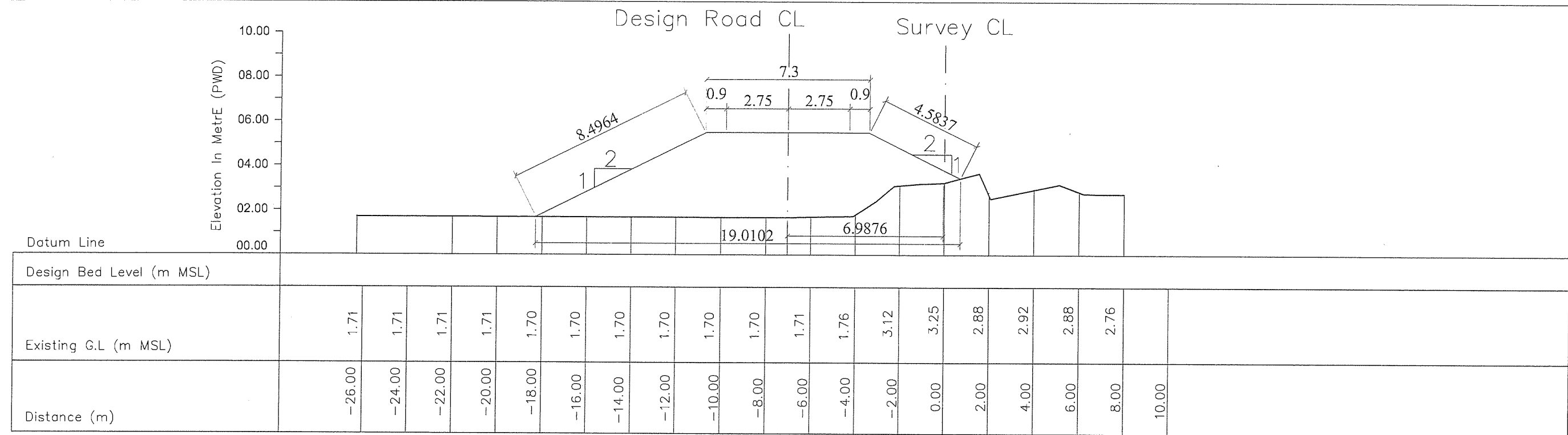
Earth Filling= 16.76m³/m



CH. 3347.74m

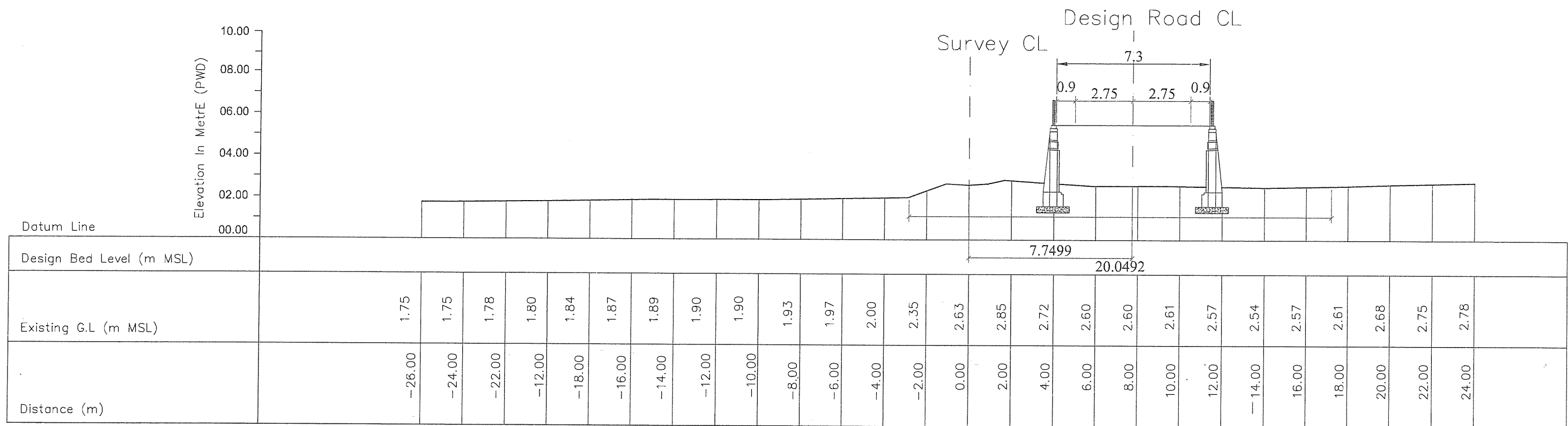
Earth Filling= 15.80m³/m

REV.	DESCRIPTION		DATE
	SCALE :		DRAWING NO.
NAME OF THE PROJECT :		DRAWING TITLE :	
Roads and Highways Department (RHD)		ROAD CROSS SECTION	
Ministry of Communications		BADARKHALI TO PLANT SITE	
Preparatory Survey on chittagong Area Coal Fared		1:200	
Power Plant Development Project in Bangladesh		AUGUST, 2013	
(JICA Study).		CS/DWG-37 of 54	
JAPAN INTERNATIONAL			
COOPERATION AGENCY(JICA)			



CH. 3776.27m

Earth Filling= 42m³/m

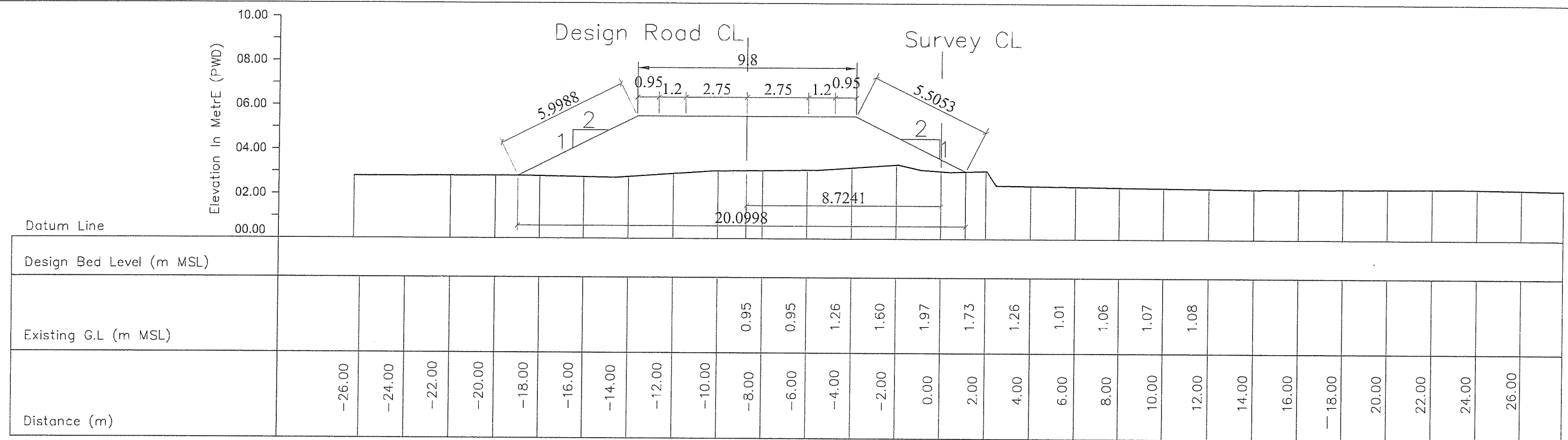


CH. 3696.12m

Earth Filling= 21.09m³/m

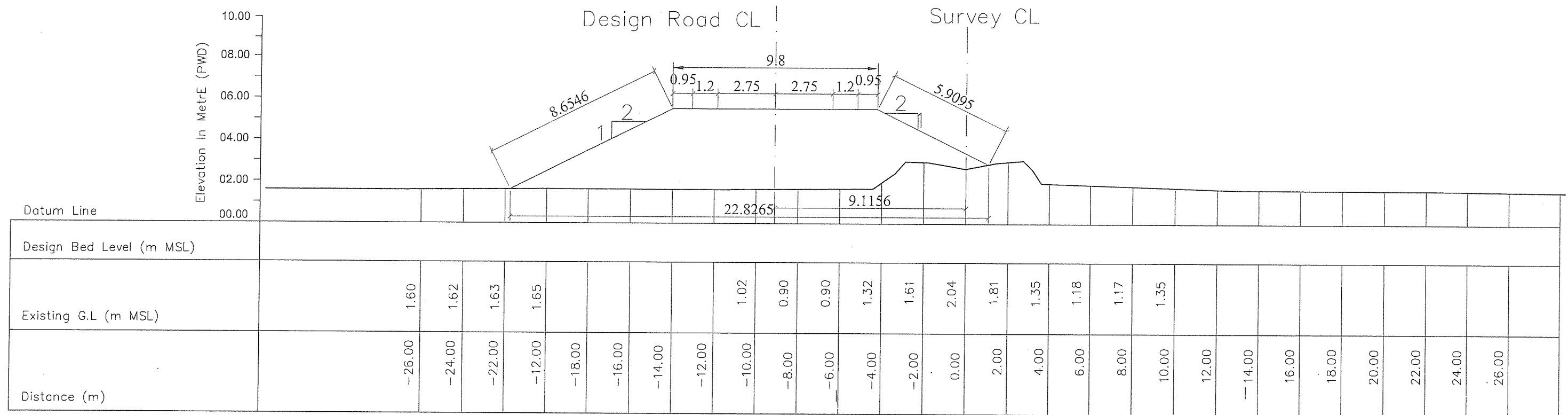
REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-39 of 54



CH. 4351.24m

Earth Filling= 30.17m³/m

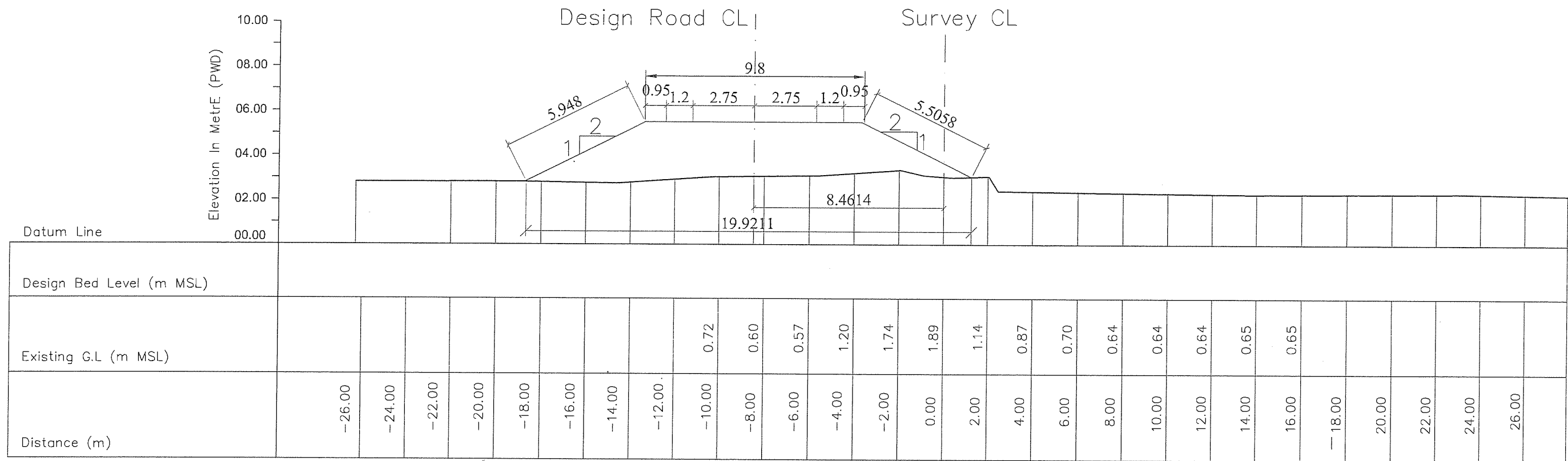


CH. 4275.68m

Earth Filling= 53.67m³/m

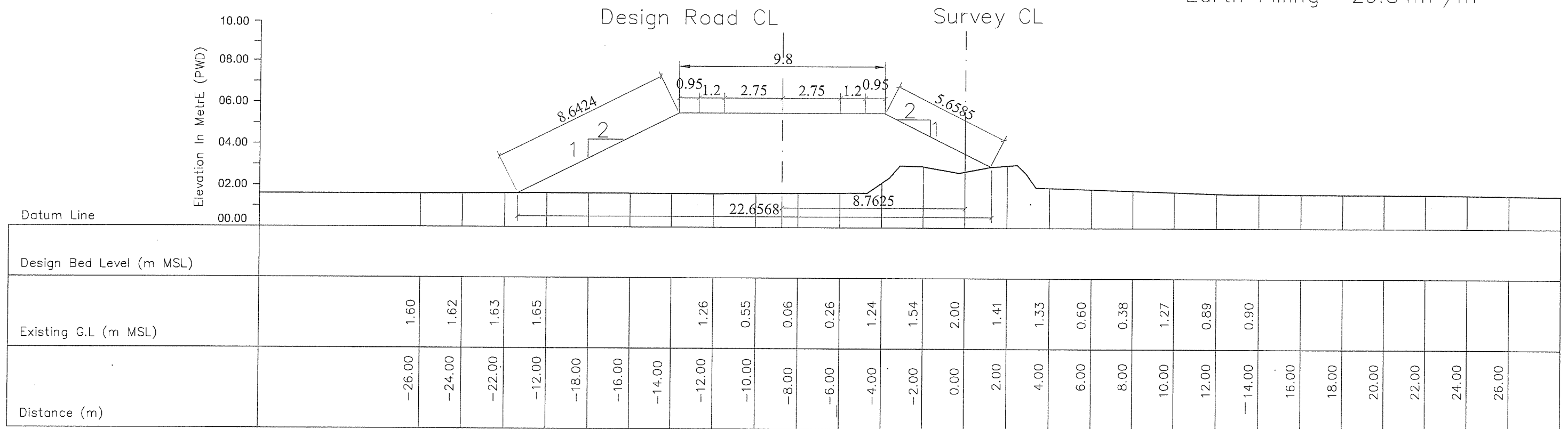
REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-42 of 54



CH. 4548.47m

Earth Filling= 29.84m³/m

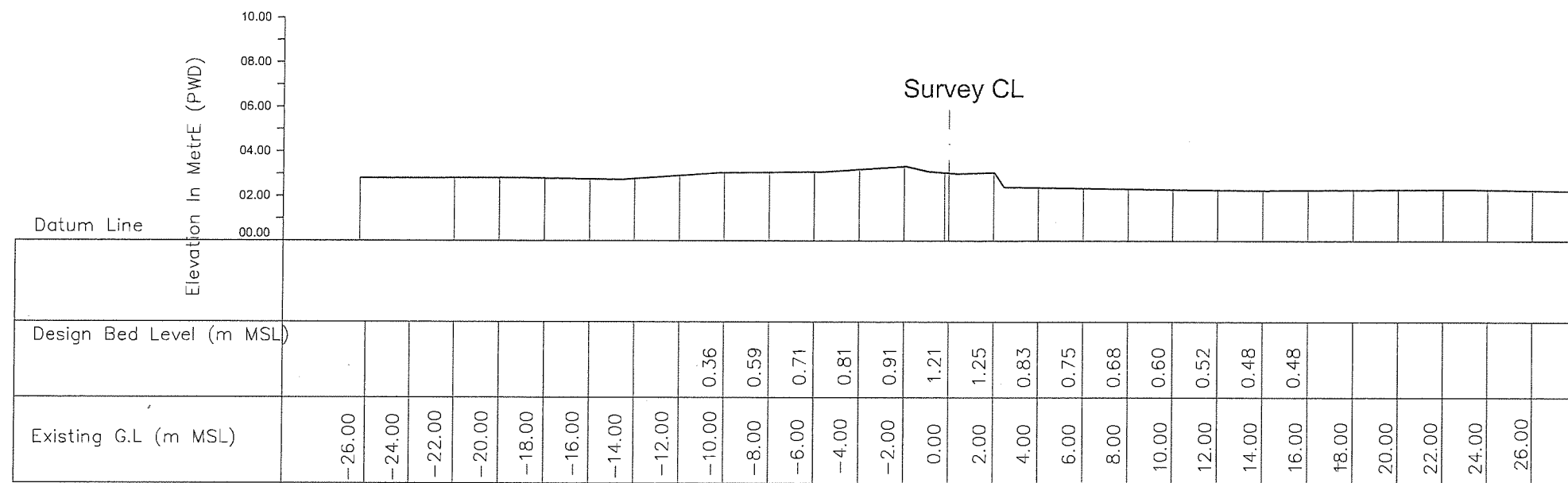


CH. 4450.73m

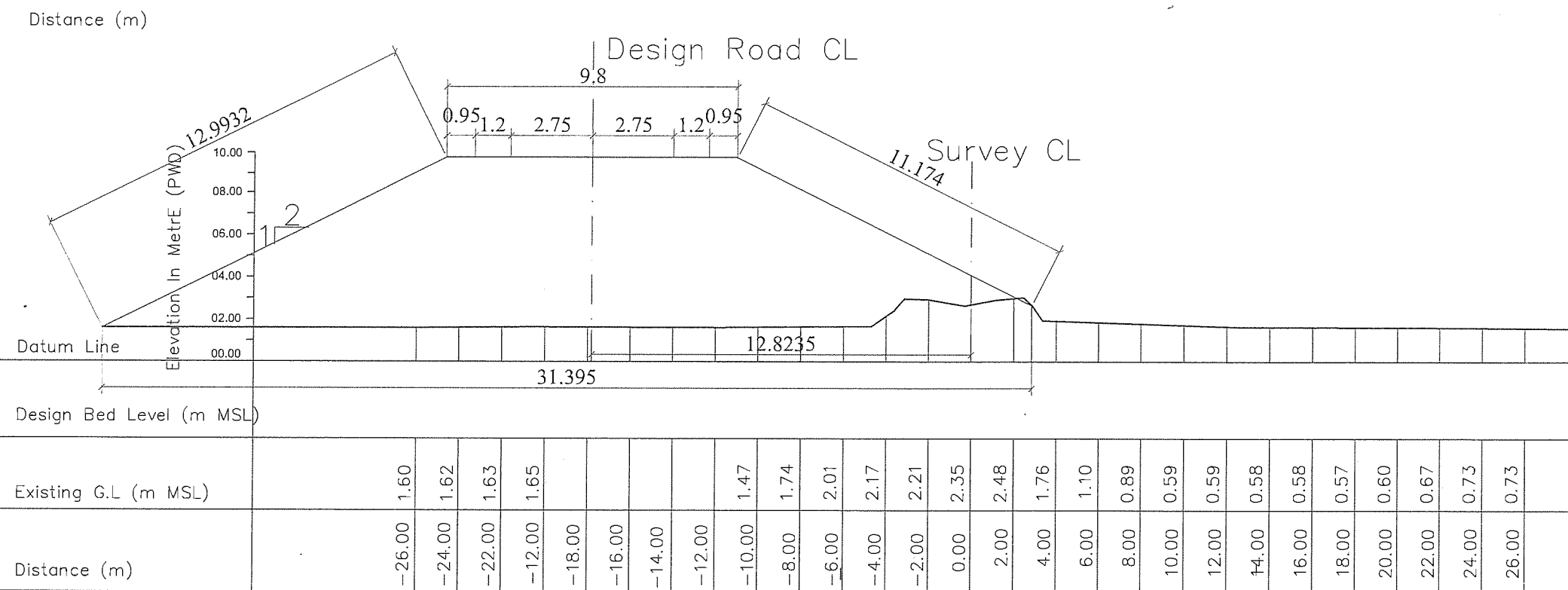
Earth Filling= 52.89m³/m

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-43 of 54



CH. 5235.33m

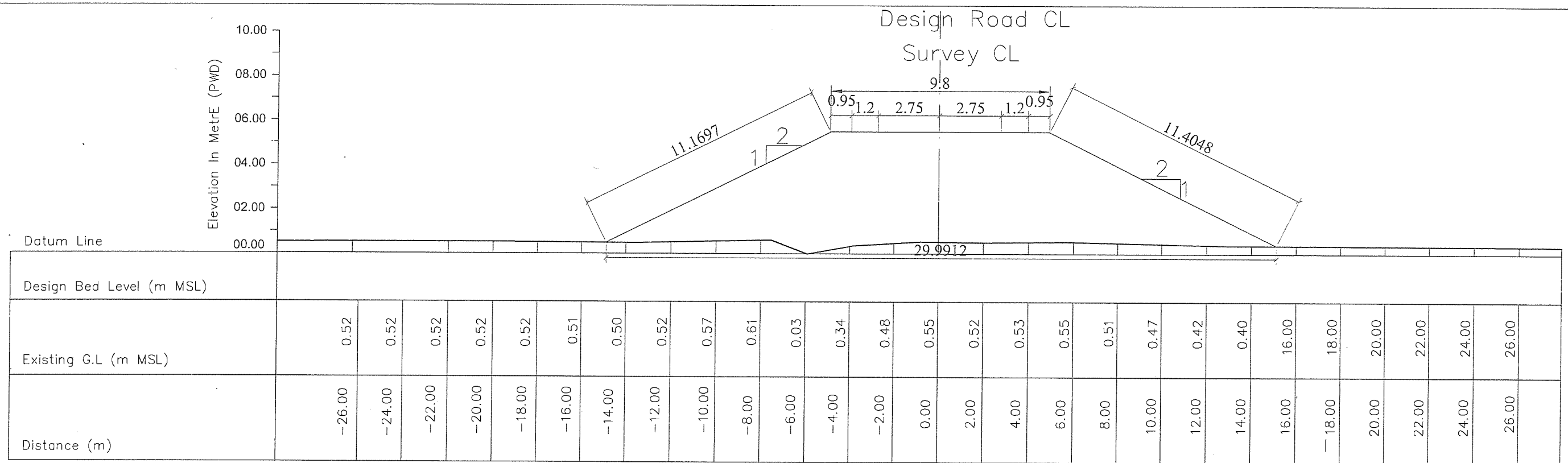


CH. 4646.38m

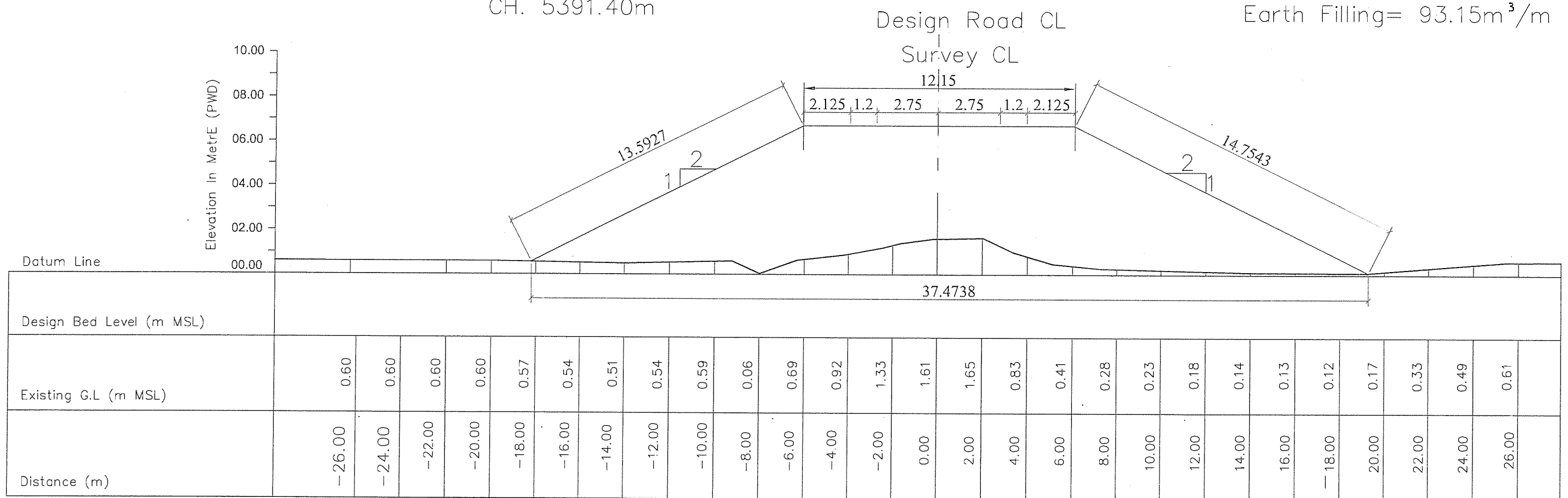
Earth Filling= 111.16m³/m

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-44 of 54



CH. 5391.40m



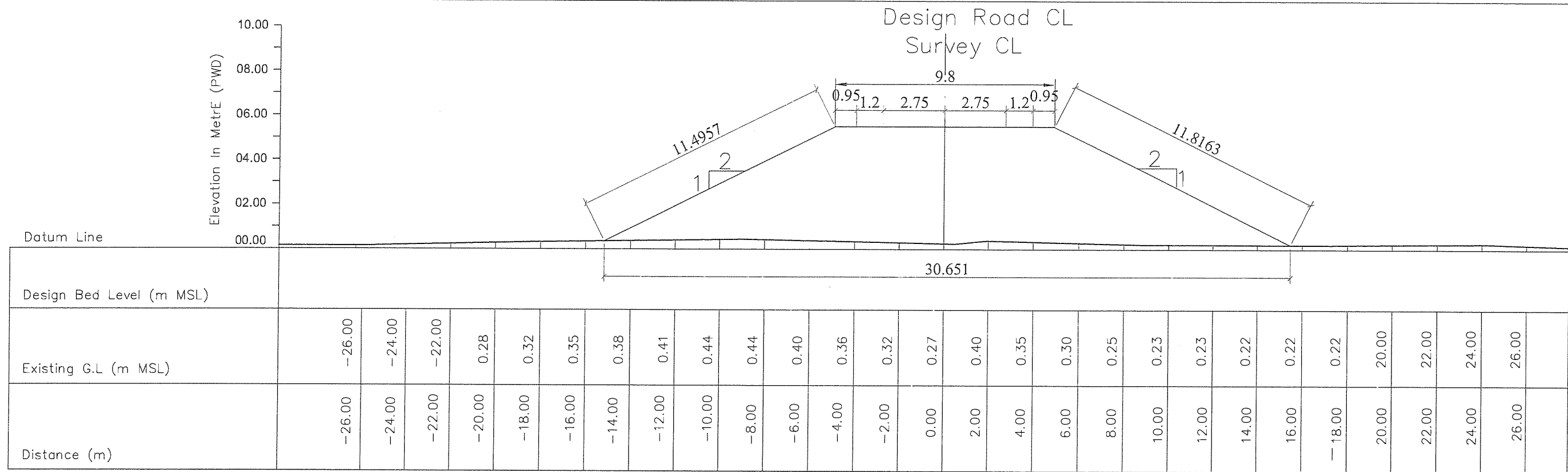
CH. 5296.92m

Earth Filling= 93.15m³/m

Earth Filling= 141.71m³/m

REV.	DESCRIPTION	DATE

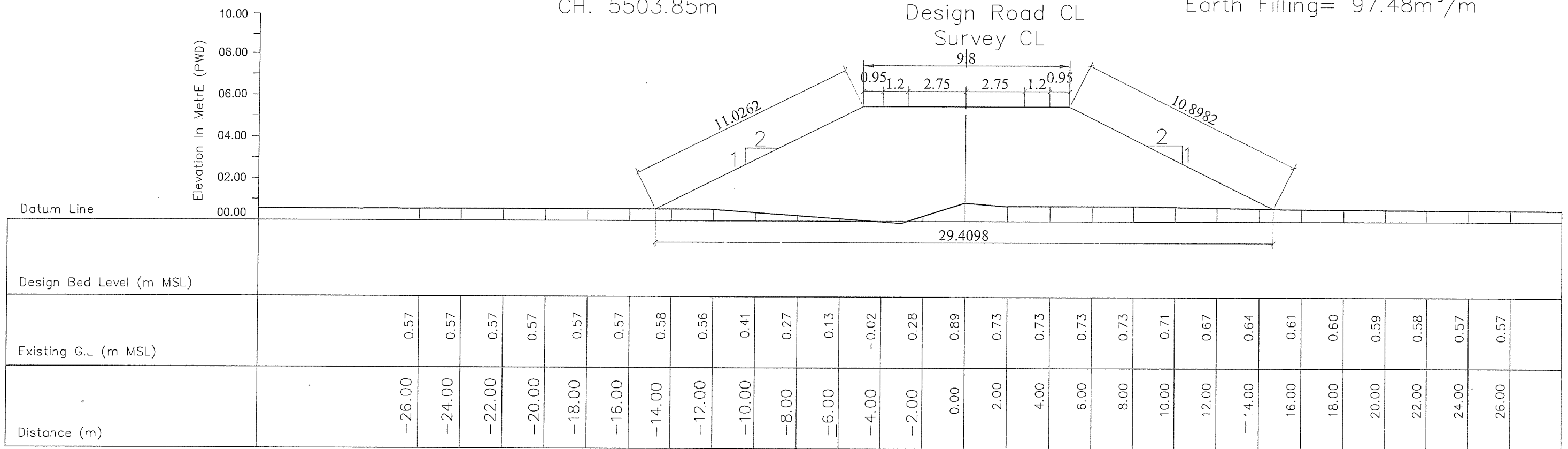
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			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-45 of 54



CH. 5503.85m

Design Road CL
Survey CL

Earth Filling= 97.48m³/m

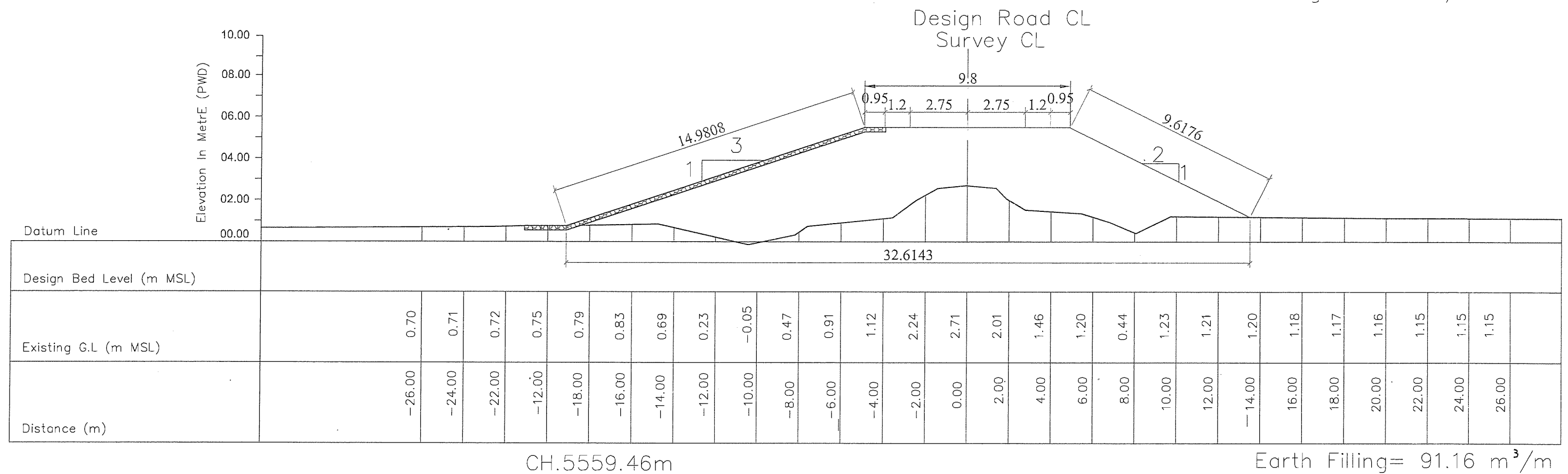
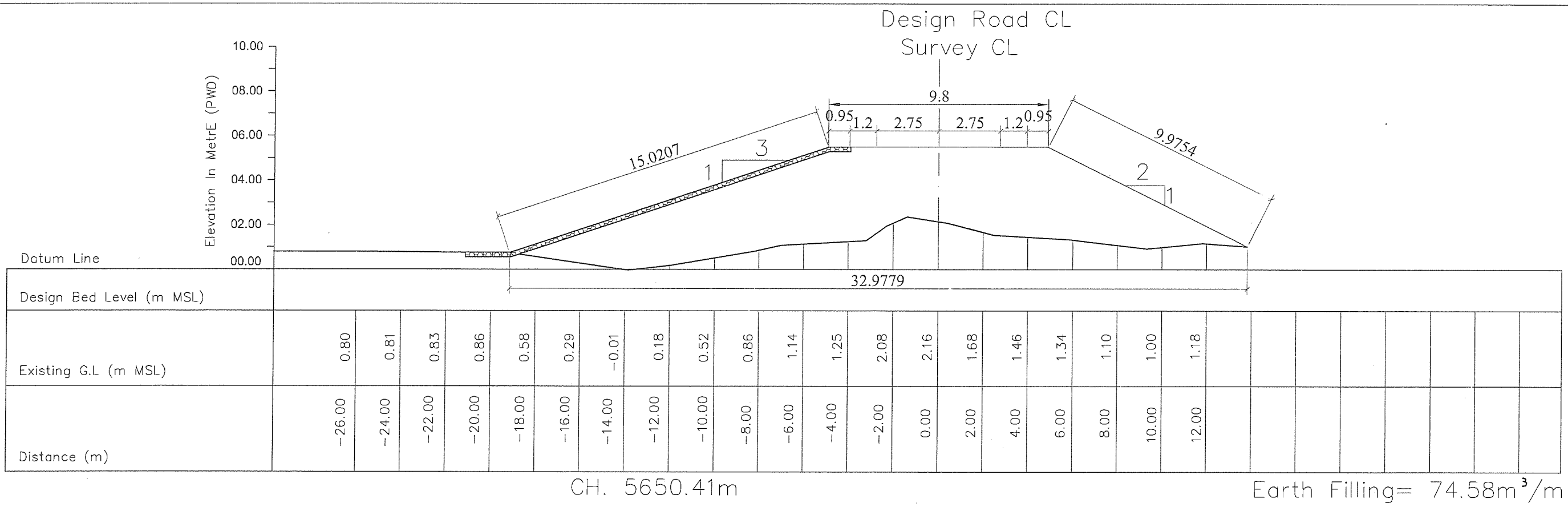


CH. 5476.59m

Earth Filling= 91.58m³/m

REV.	DESCRIPTION	DATE

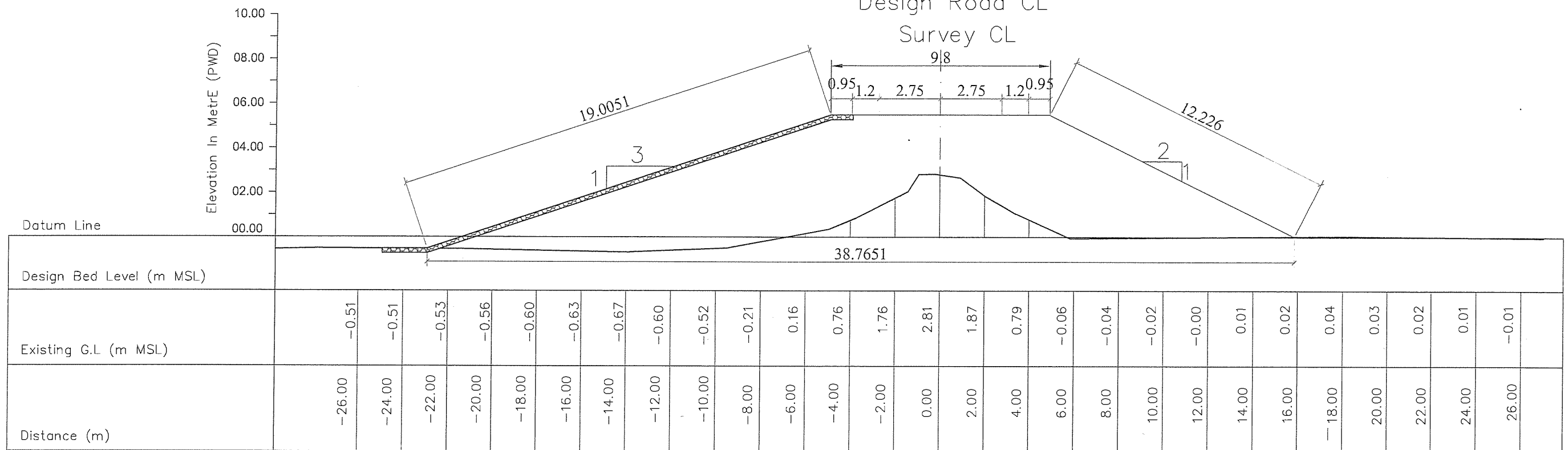
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			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-46 of 54



REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-47 of 54

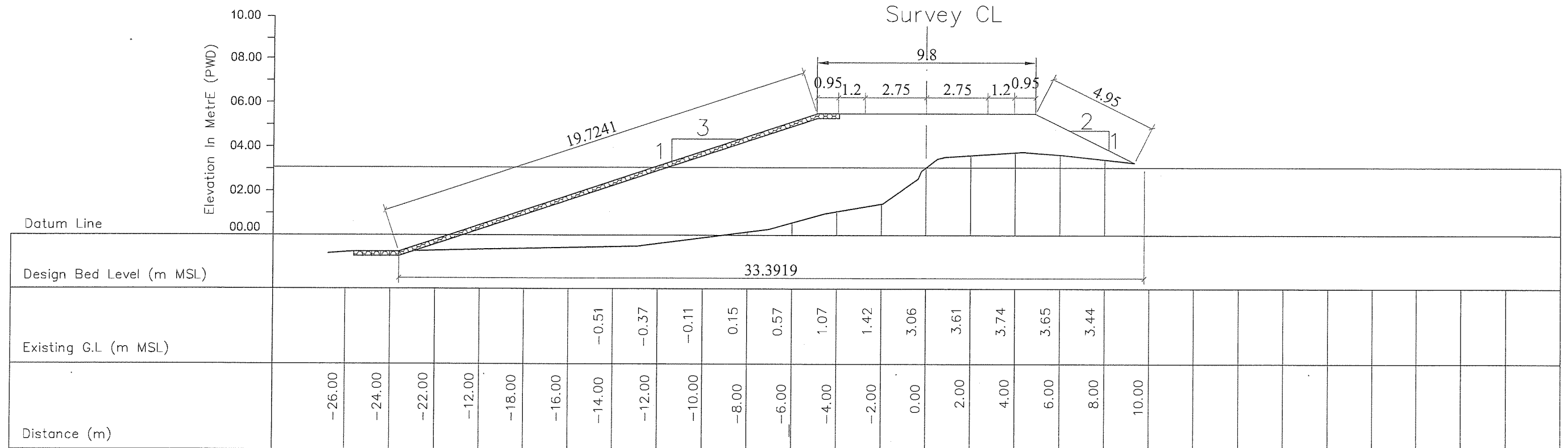
Design Road CL
Survey CL



CH. 5919.50m

Design Road CL
Survey CL

Earth Filling= 120.94m³/m

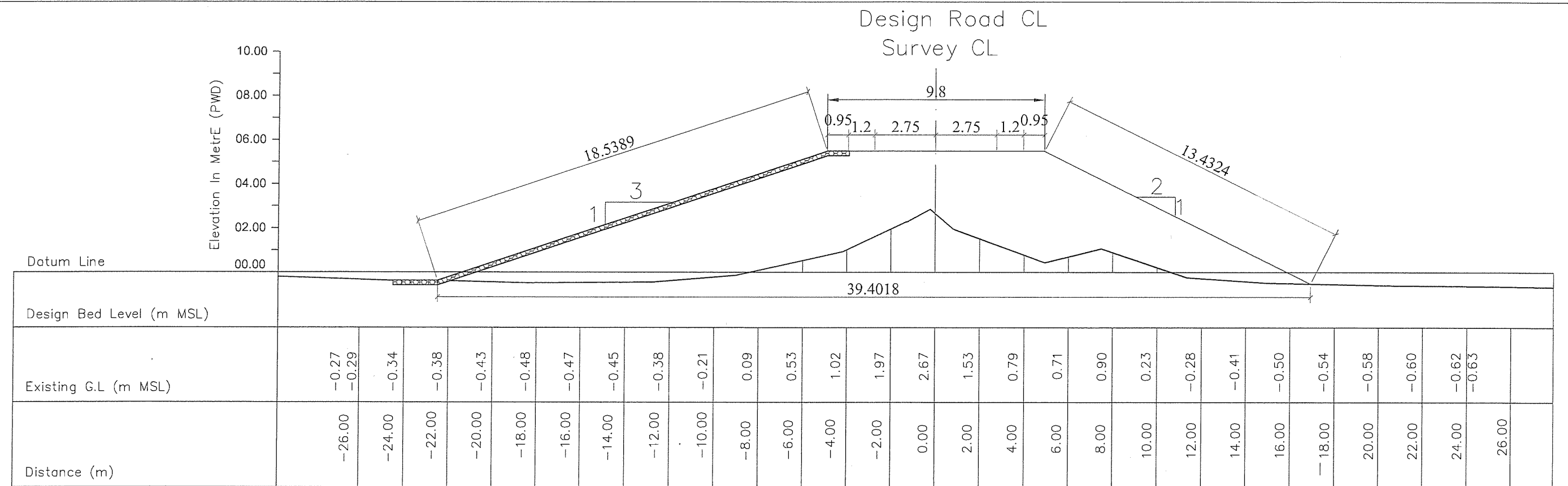


CH. 5839.76m

Earth Filling= 82.86m³/m

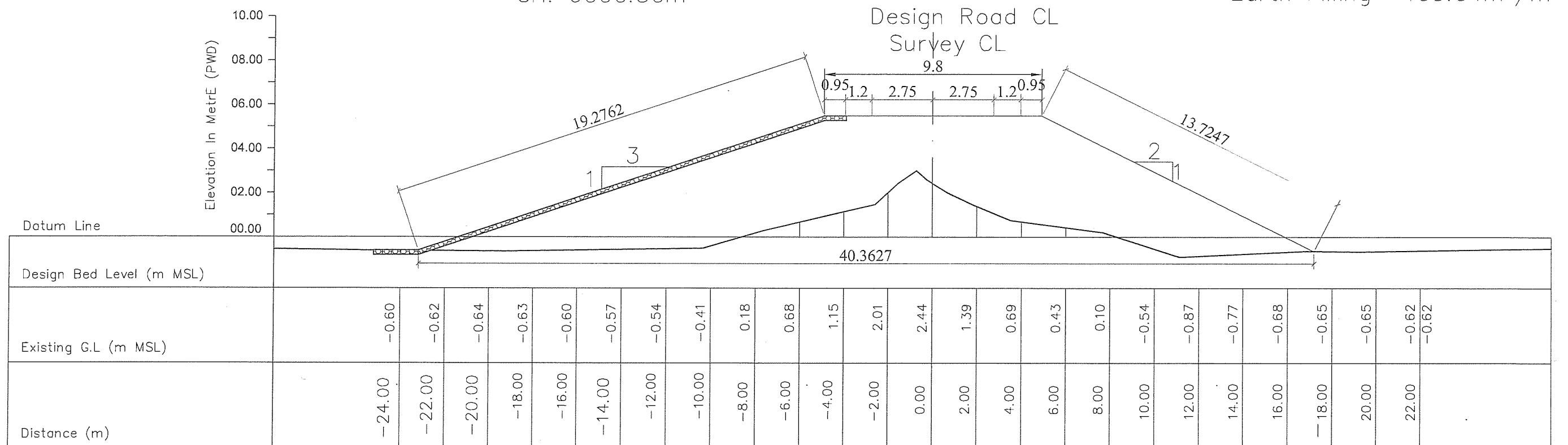
REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-49 of 54



CH. 6000.50m

Earth Filling= 109.04m³/m

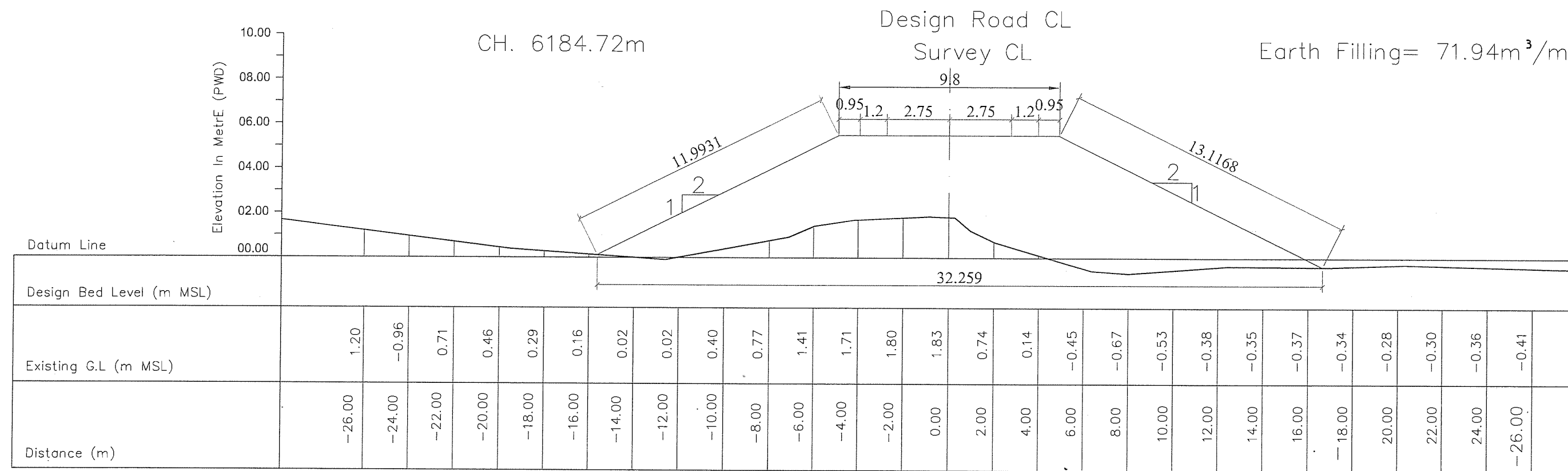
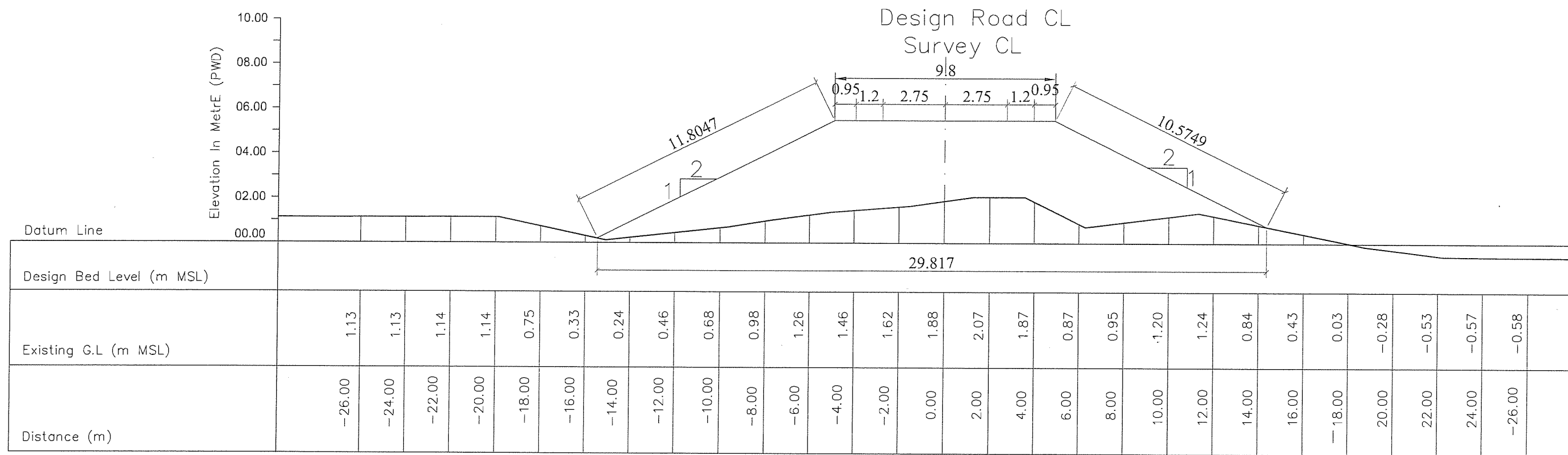


CH. 5967.19m

Earth Filling= 116.96m³/m

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :		SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE		1:200	AUGUST, 2013	CS/DWG-50 of 54



CH. 6161.96m

Earth Filling= 95.17m³/m

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD)
Ministry of Communications

NAME OF THE PROJECT :
Preparatory Survey on chittagong Area Coal Fared
Power Plant Development Project in Bangladesh
(JICA Study).

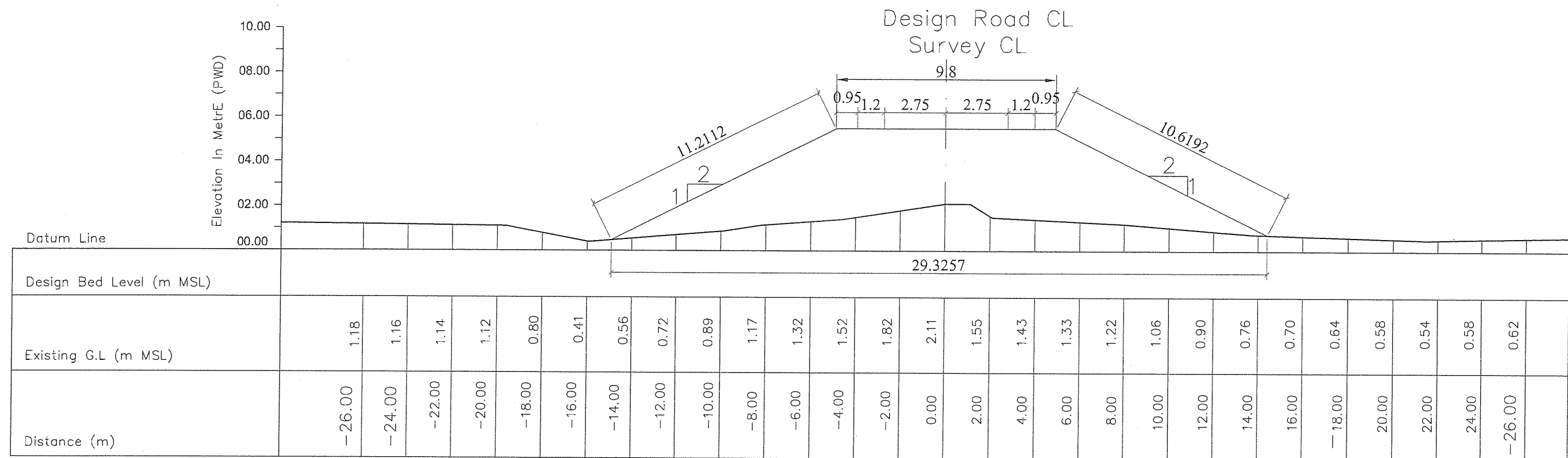
JAPAN INTERNATIONAL
COOPERATION AGENCY(JICA)

DRAWING TITLE :
ROAD CROSS SECTION
BADARKHALI TO PLANT SITE

SCALE :
1:200

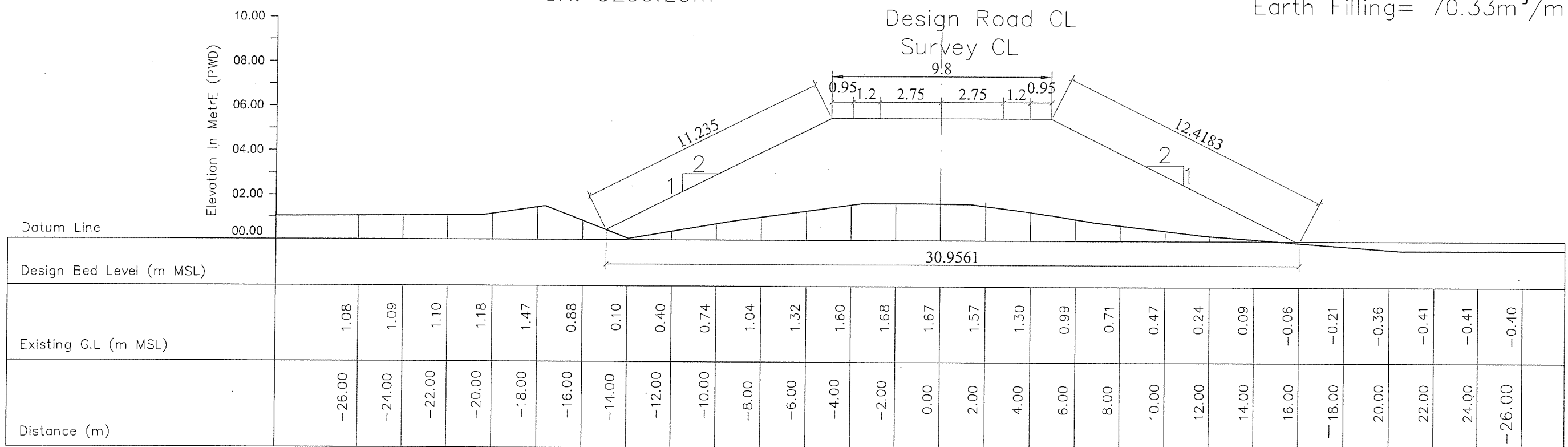
DATE :
AUGUST, 2013

DRAWING NO.
CS/DWG-52 of 54



CH. 6299.29m

Earth Filling= 70.33m³/m

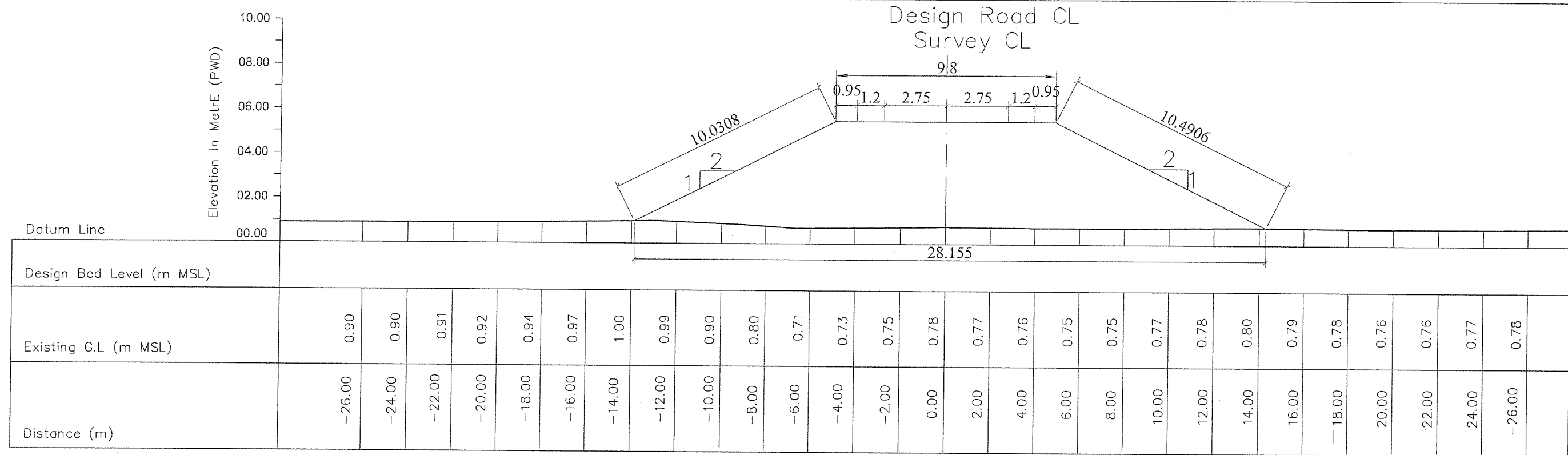


CH. 6231.46m

Earth Filling= 79.22m³/m

REV.	DESCRIPTION	DATE

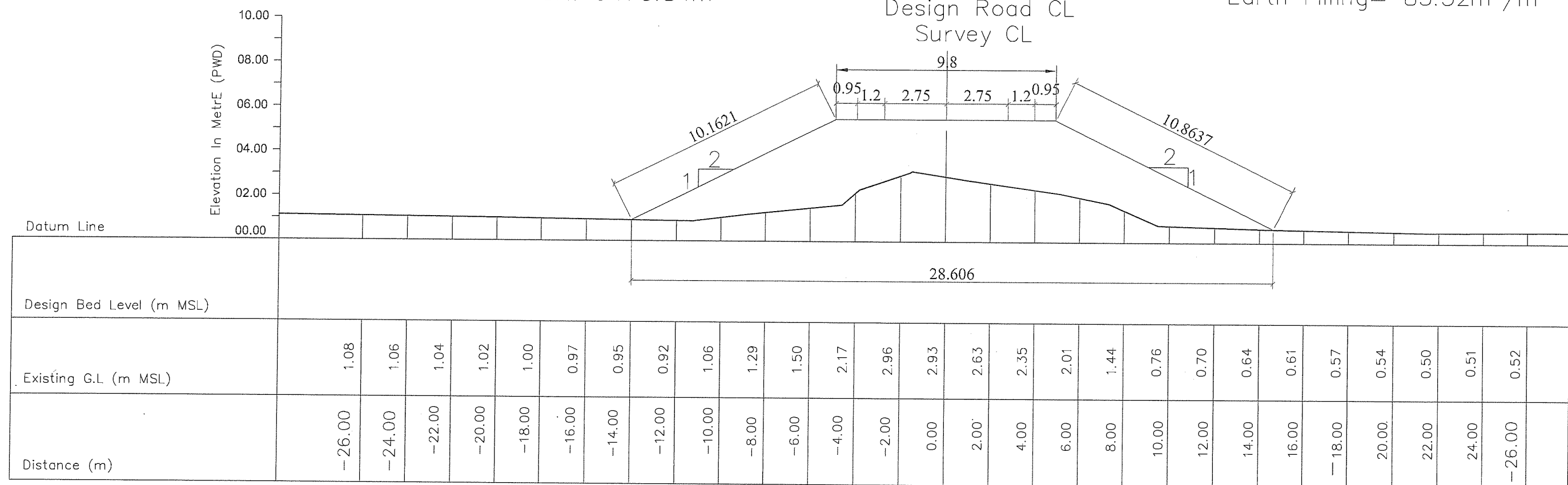
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-53 of 54



CH. 6470.84m

Design Road CL
Survey CL

Earth Filling= 83.32m³/m



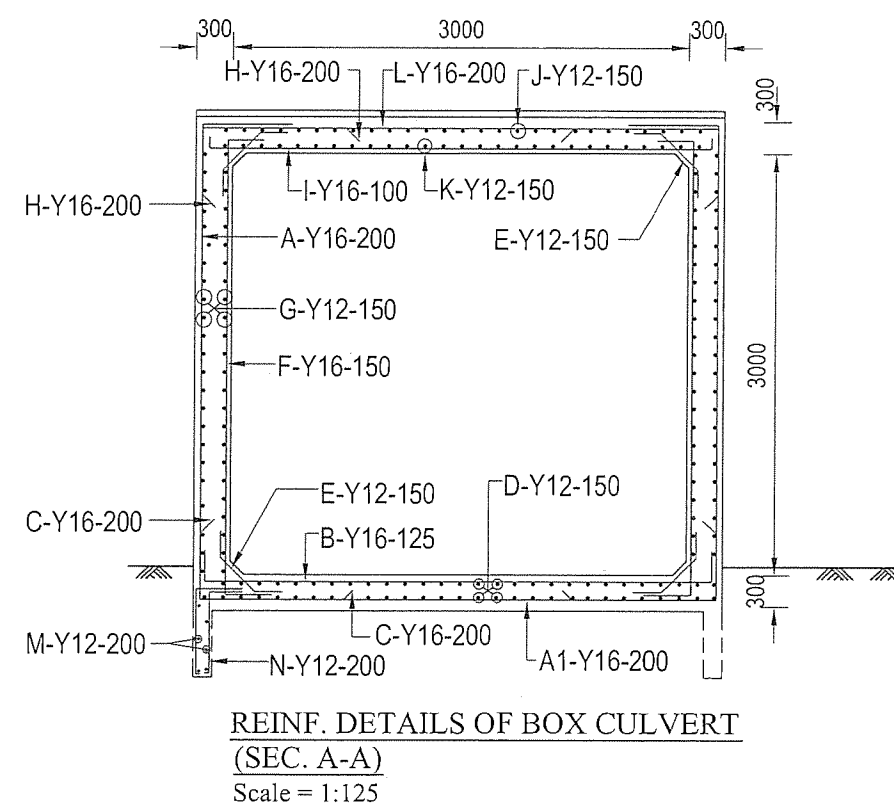
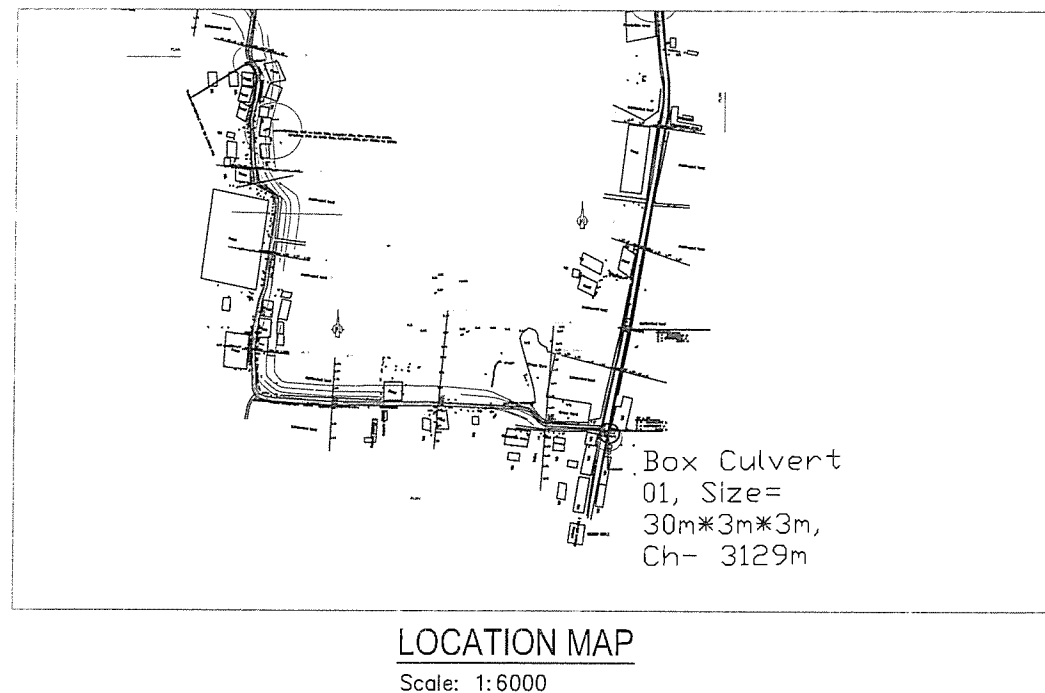
CH. 6374.00m

Earth Filling= 58.77m³/m

REV.	DESCRIPTION	DATE

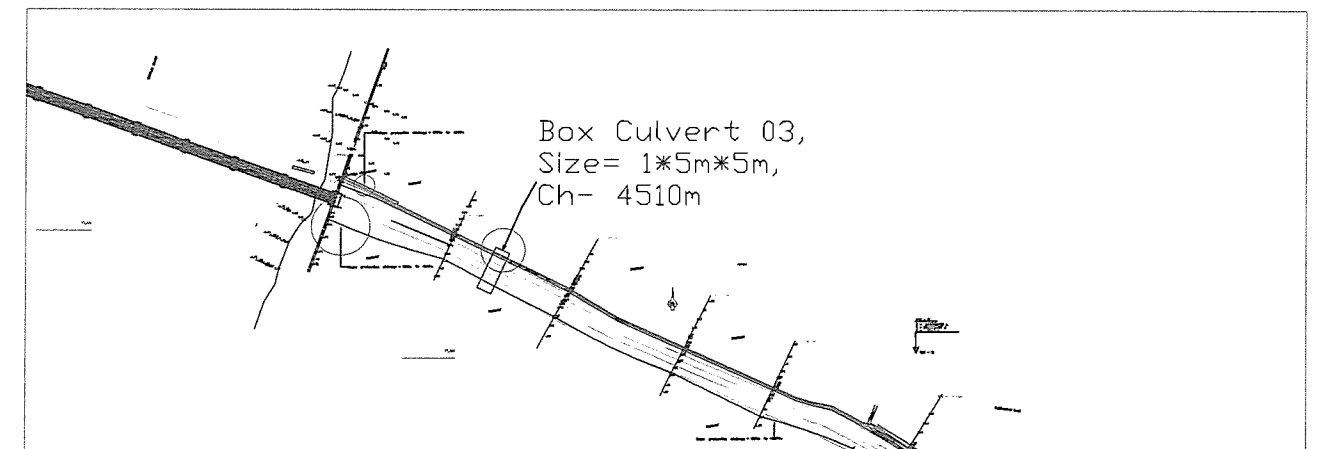
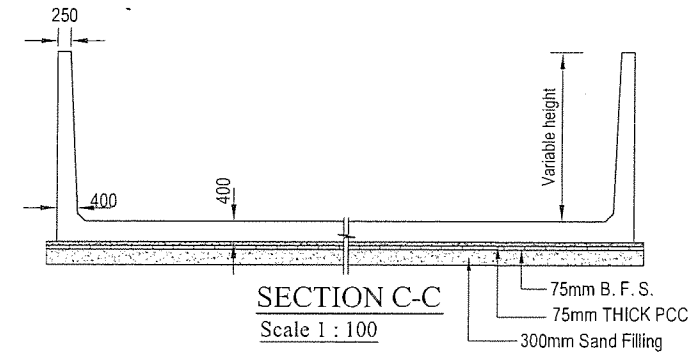
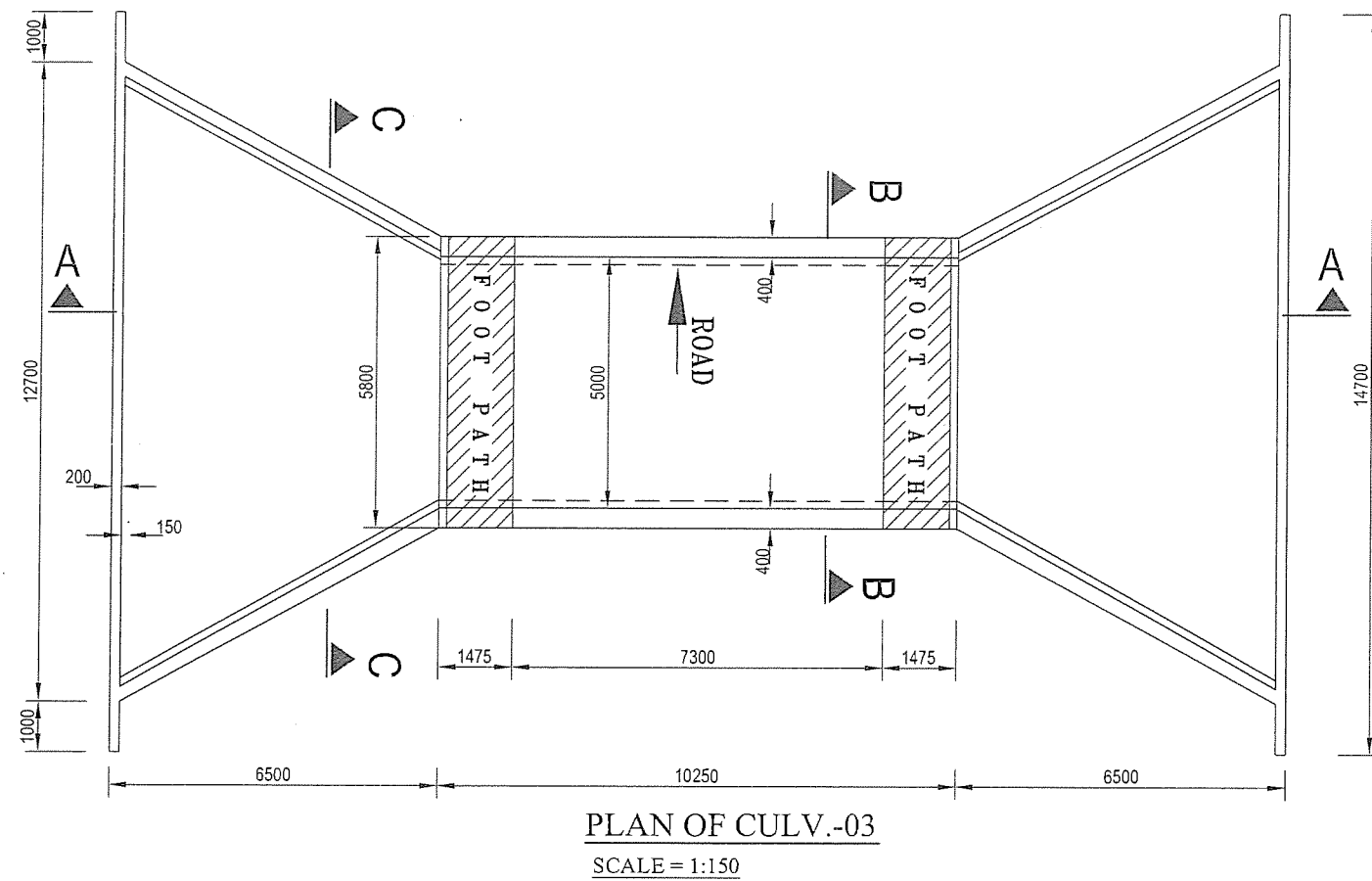
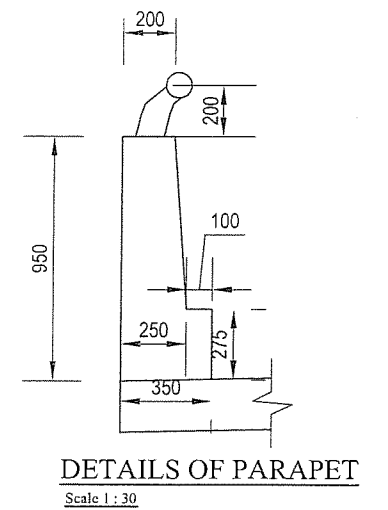
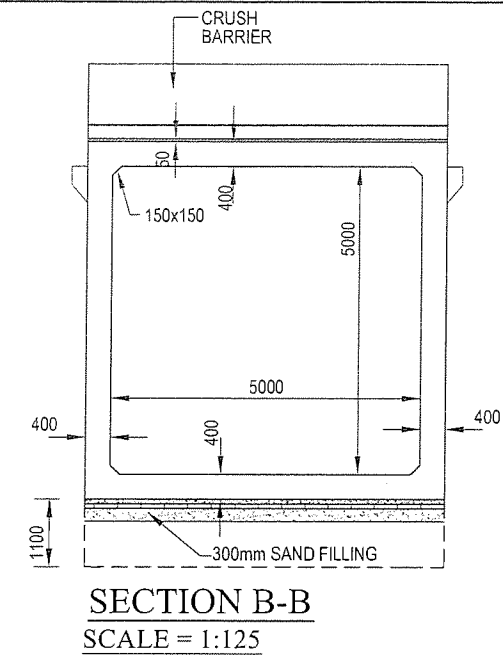
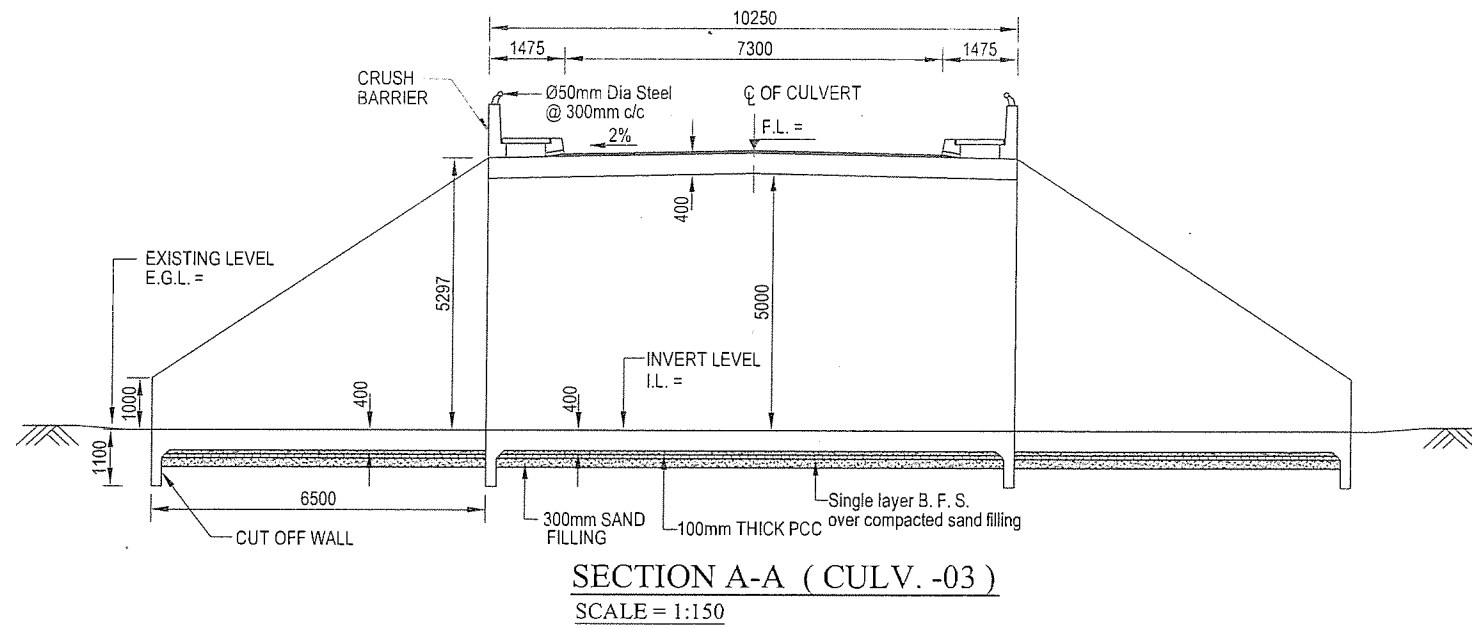
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION BADARKHALI TO PLANT SITE	1:200	AUGUST, 2013	CS/DWG-54 of 54

CULVERT AND ROAD ANCILLARY STRUCTURES



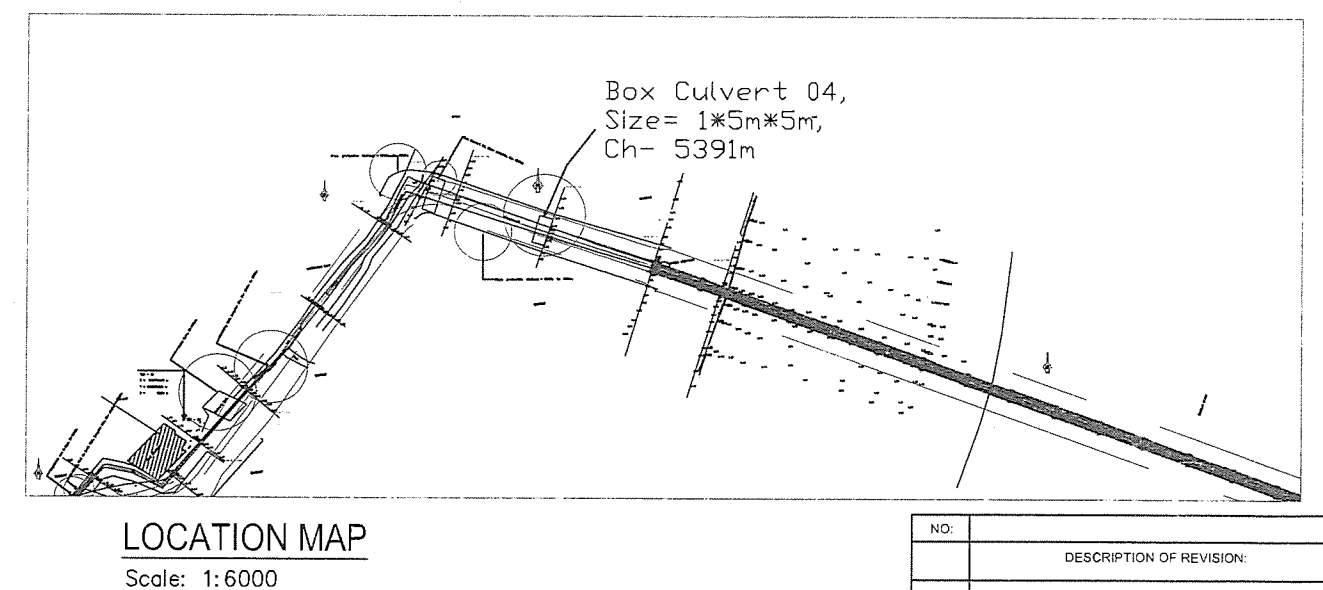
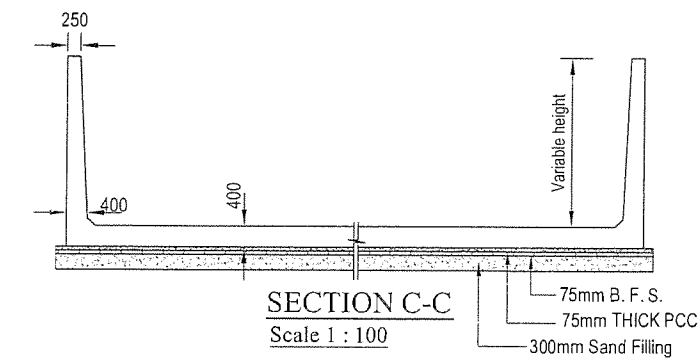
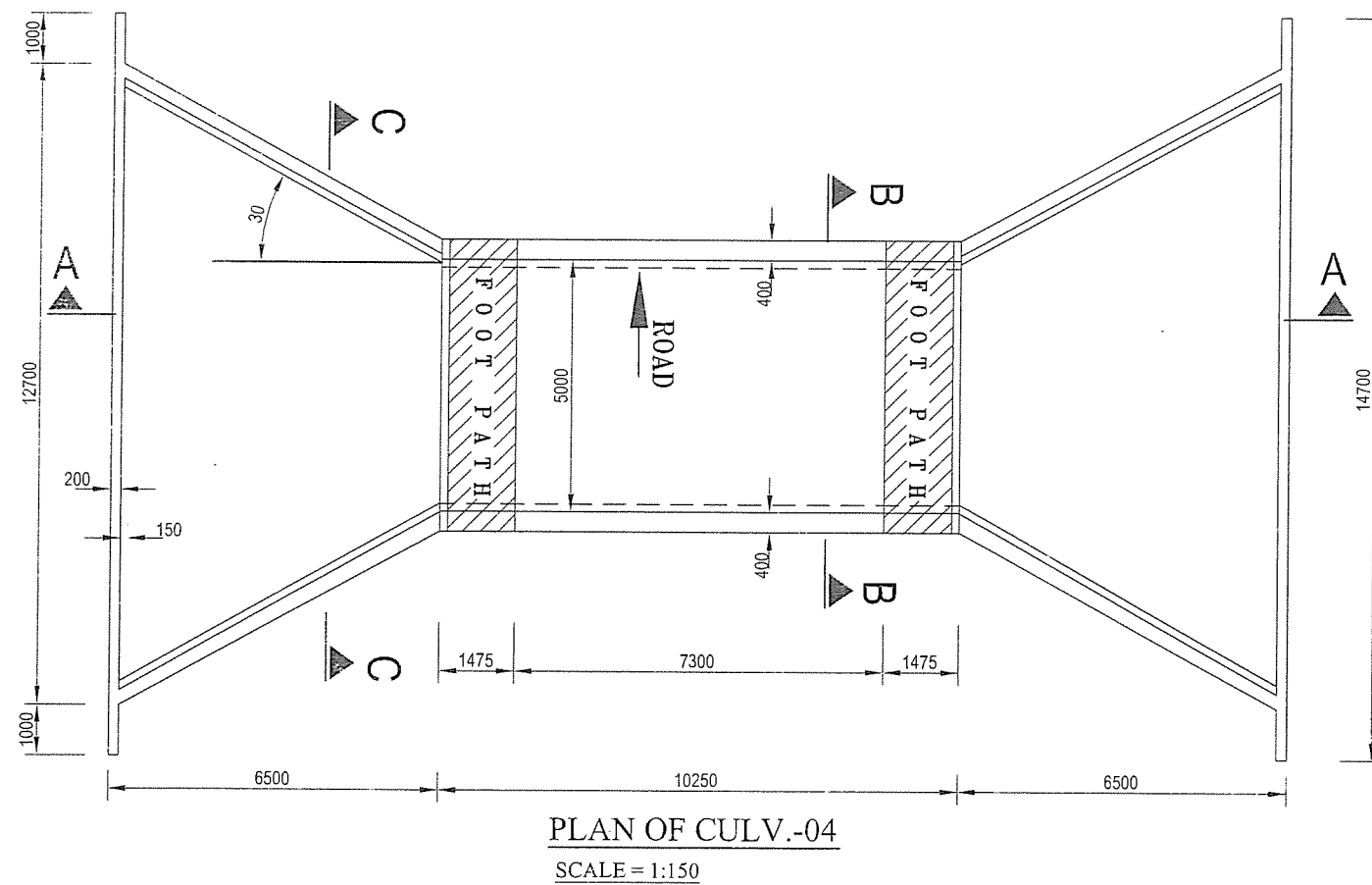
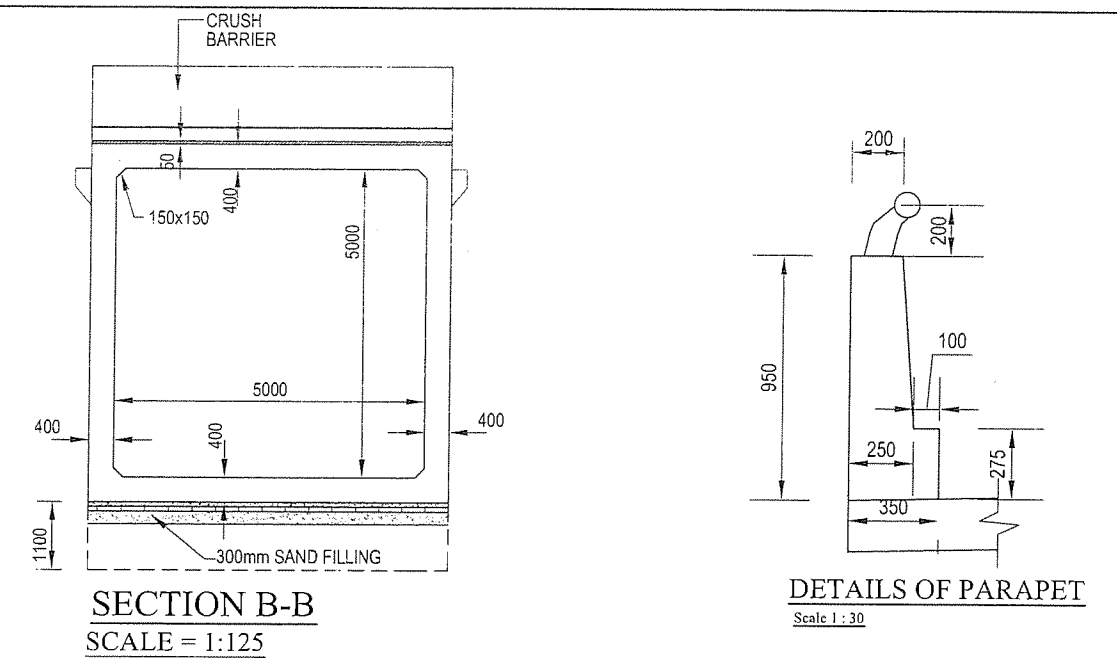
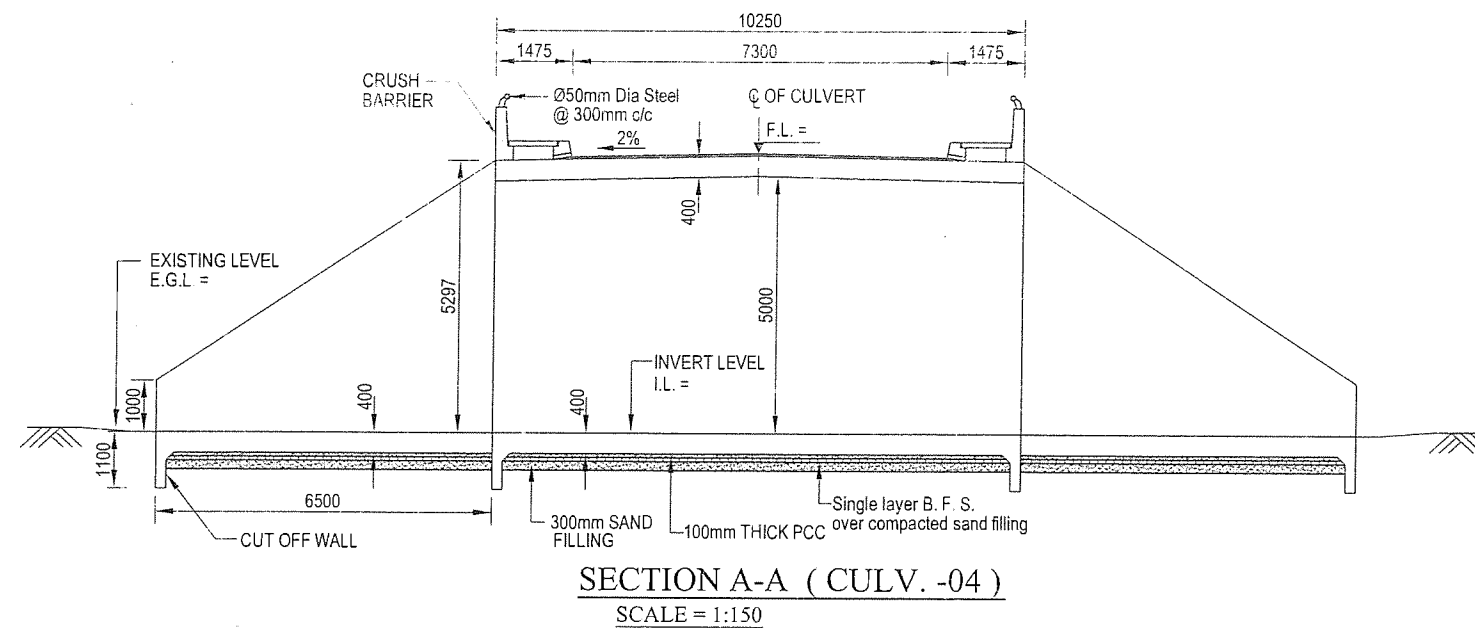
NO.	
	DESCRIPTION OF REVISION:

ROADS AND HIGHWAYS DEPARTMENT (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			PLAN AND SECTIONAL ELEVATION OF 1X3.0X3.0 EXTENSION RCC BOX CULVERT AT CH. 3+129 Km (CULV-01)	Scale : As above	02 July' 2013	CULV-01/DWG-01



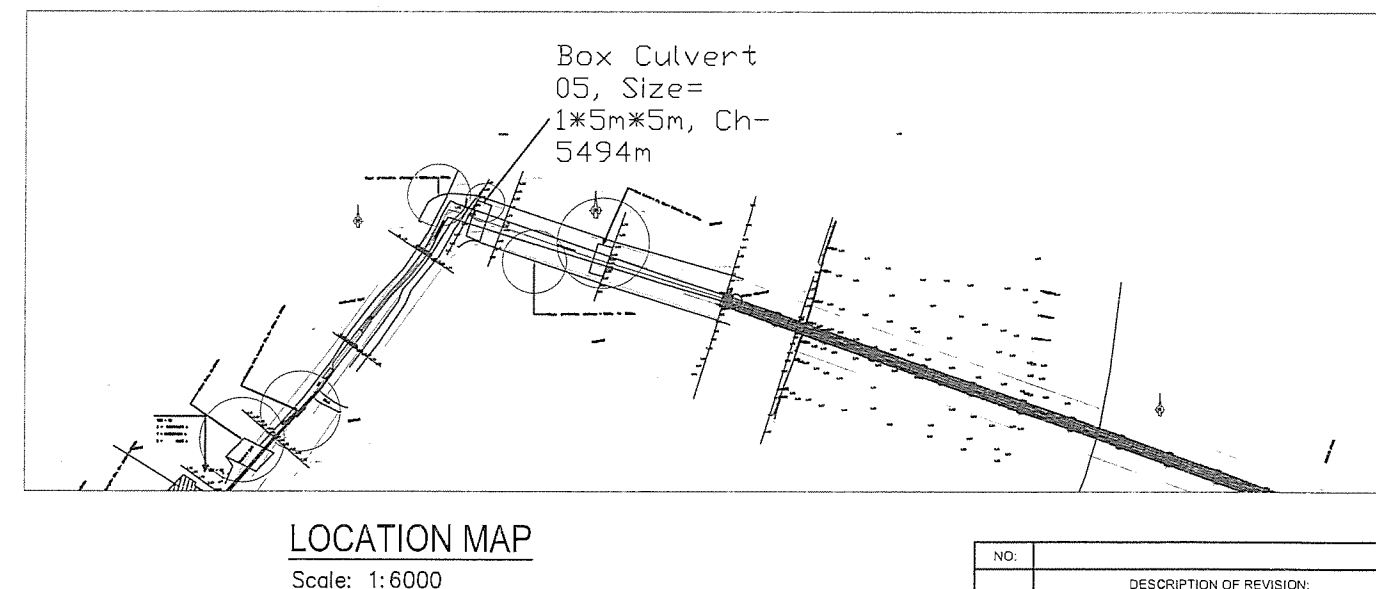
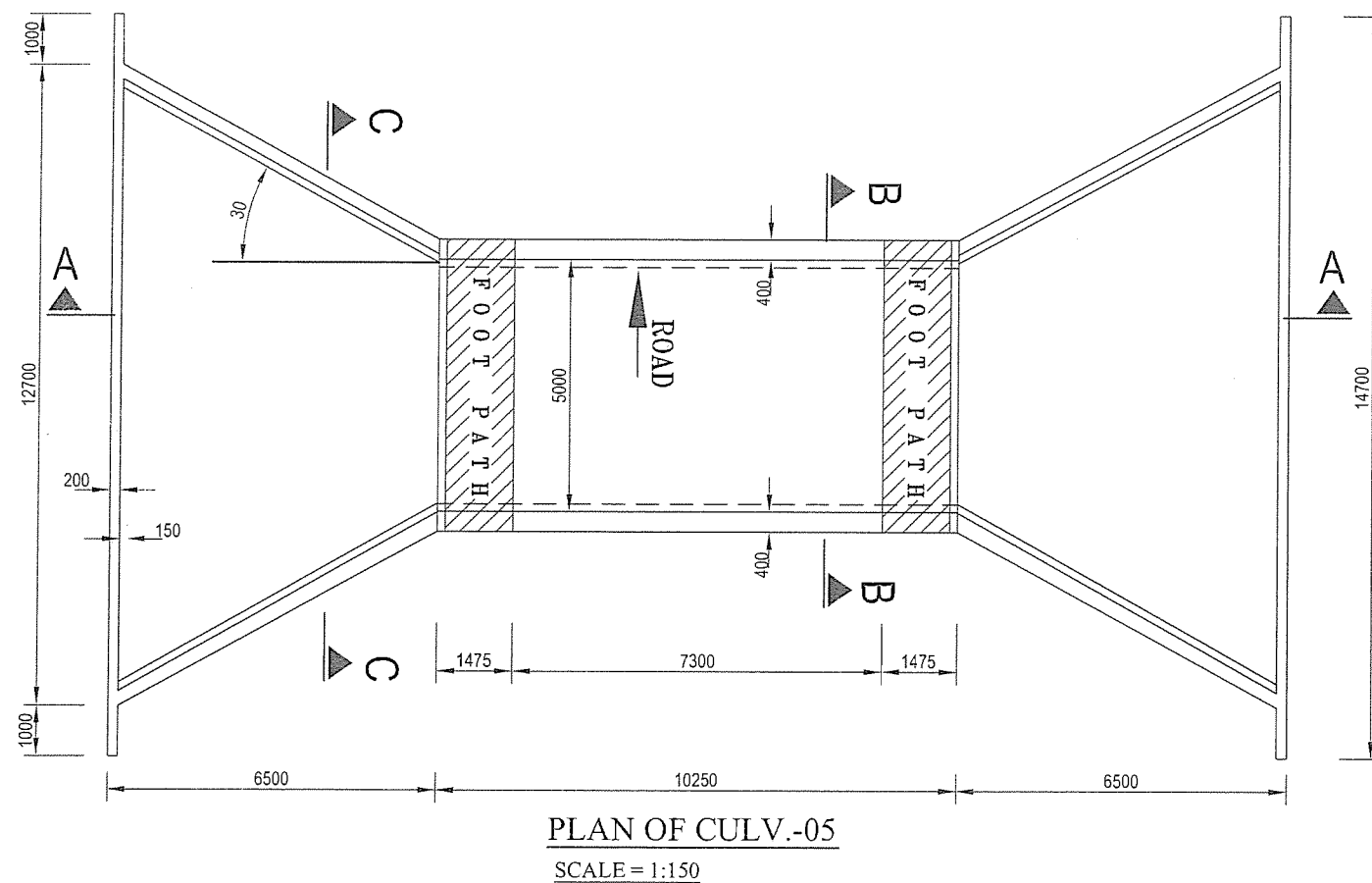
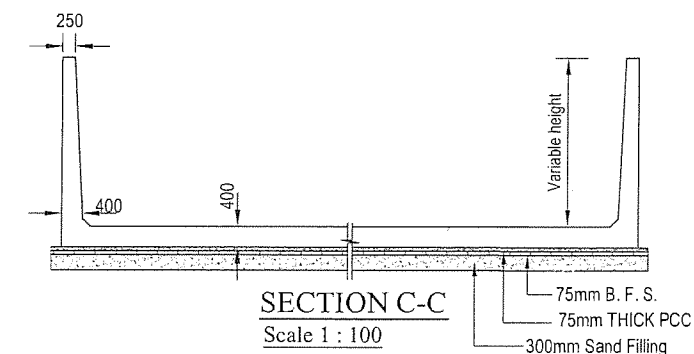
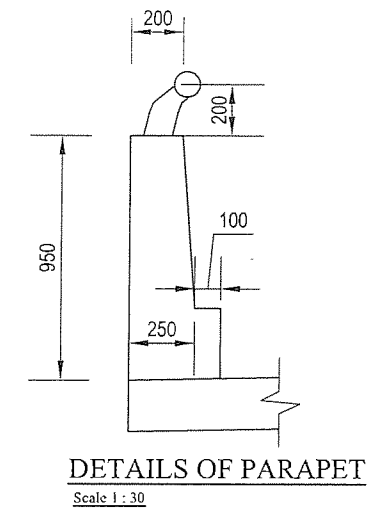
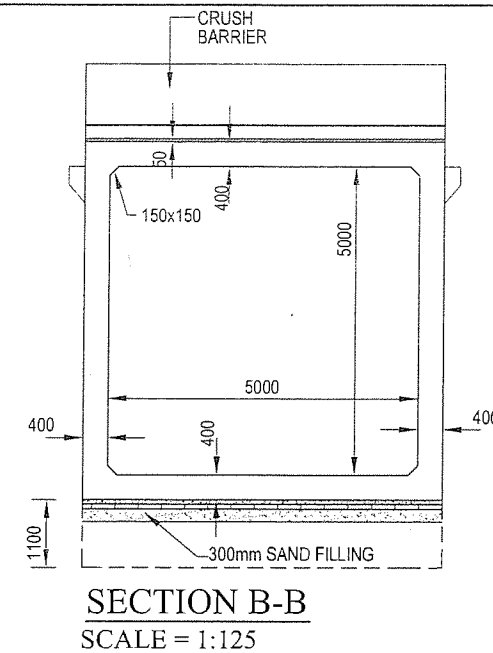
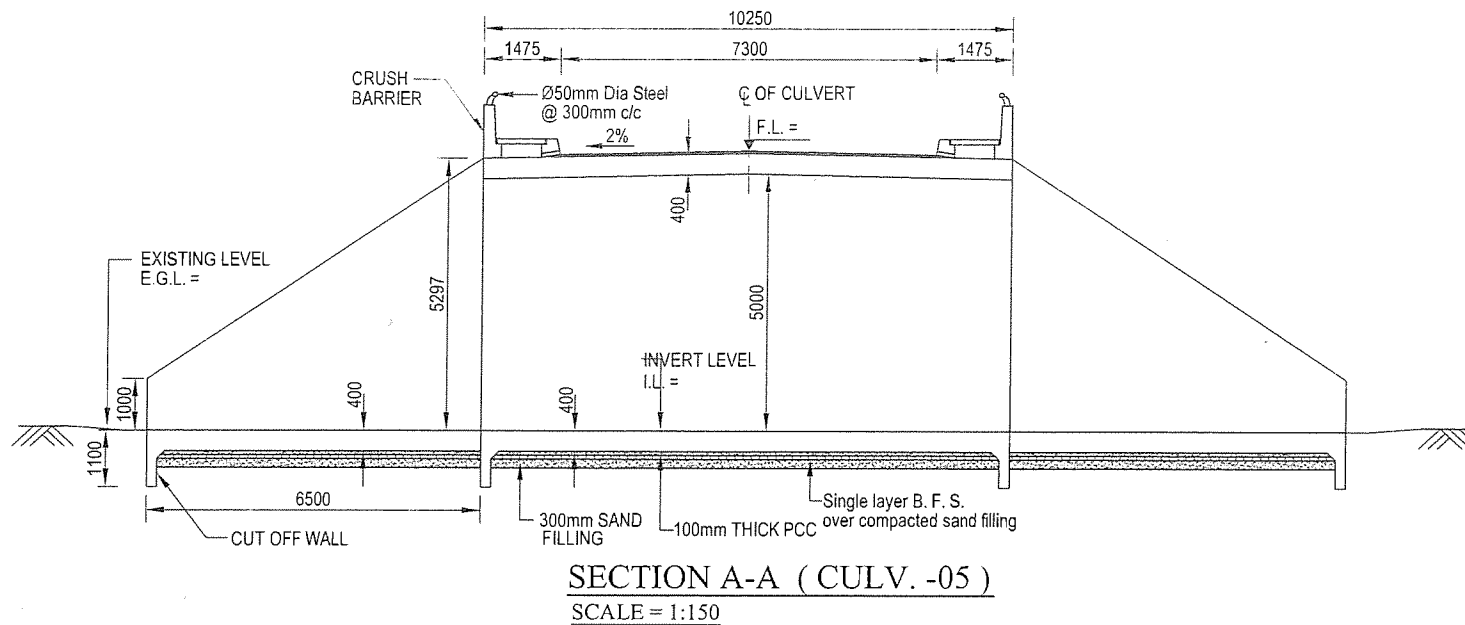
NO.	DESCRIPTION OF REVISION:

ROADS AND HIGHWAYS DEPARTMENT (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			PLAN AND SECTIONAL ELEVATION OF RCC BOX CULVERT (CULV-03) AT CH. 4+510 KM (1x5.0x5.0)	Scale : As above	02 July' 2013	CULV-03/DWG-01



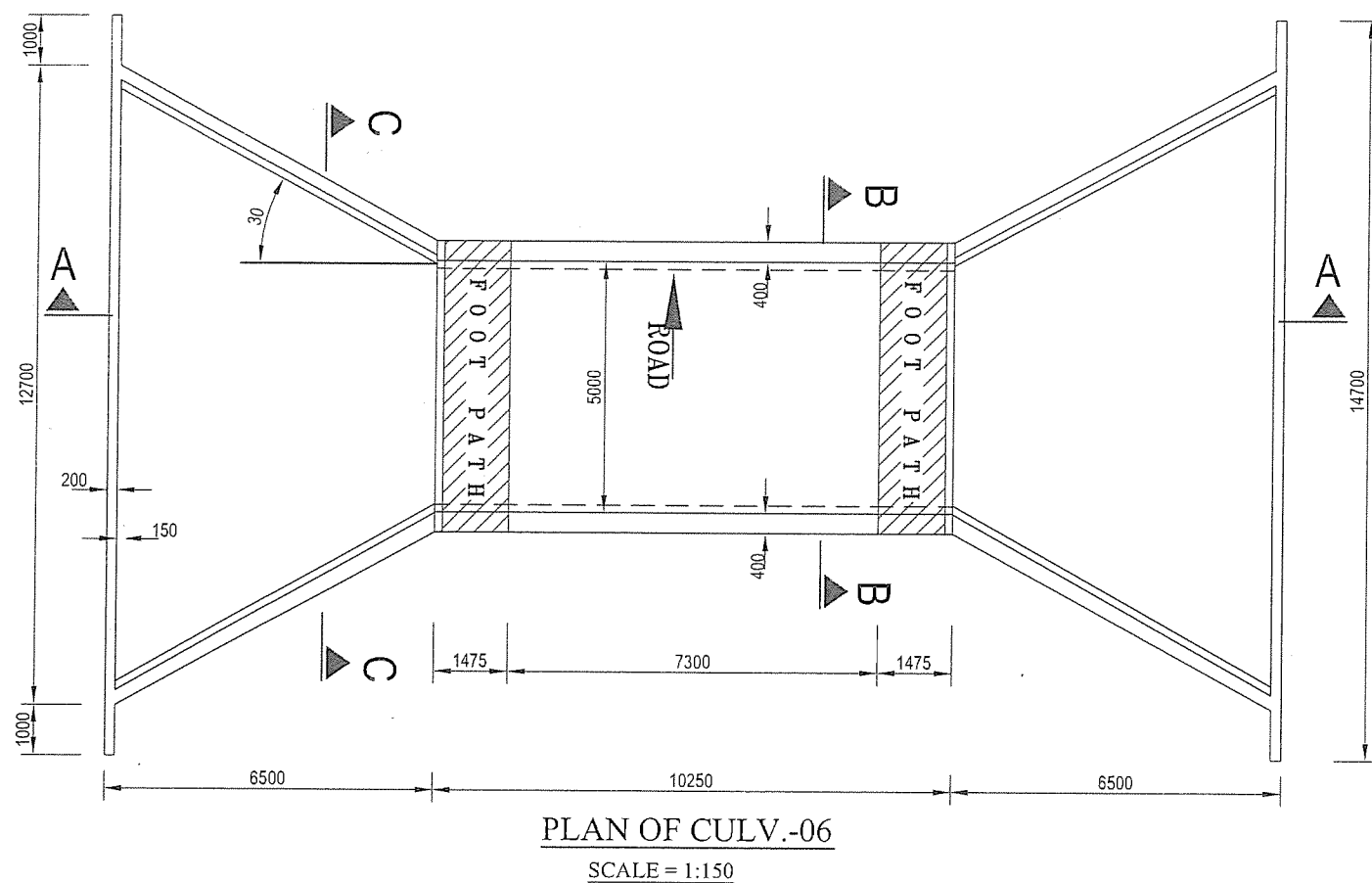
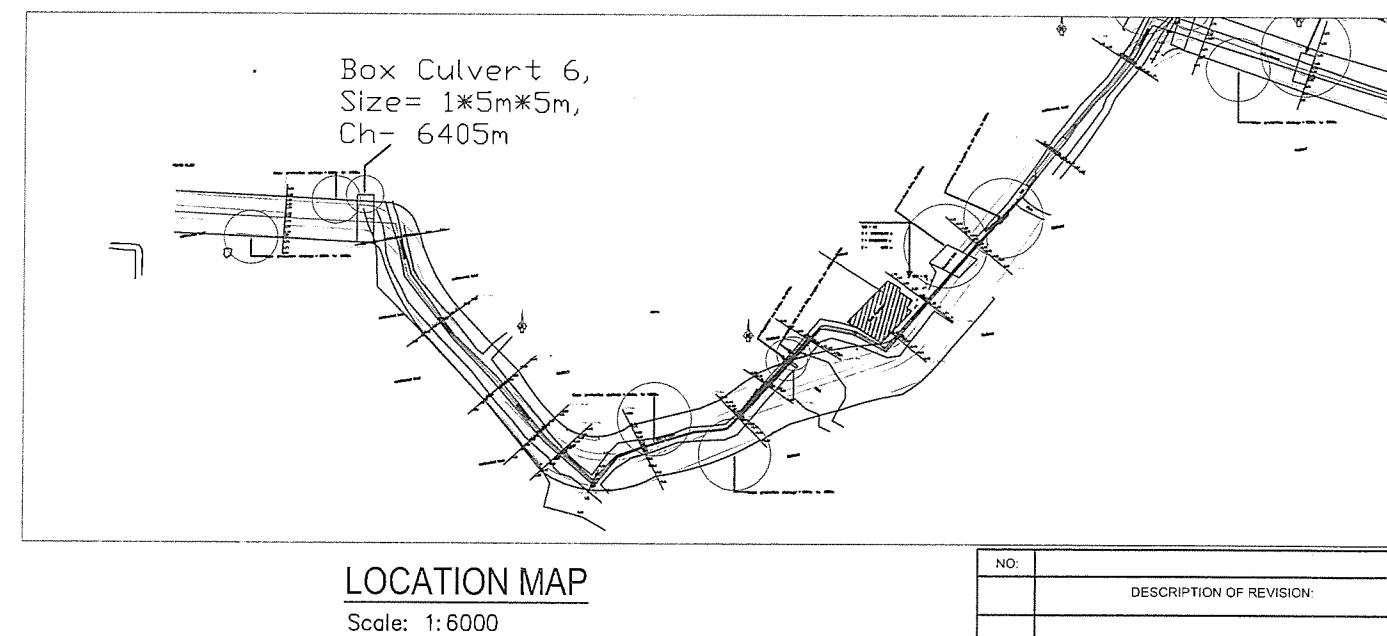
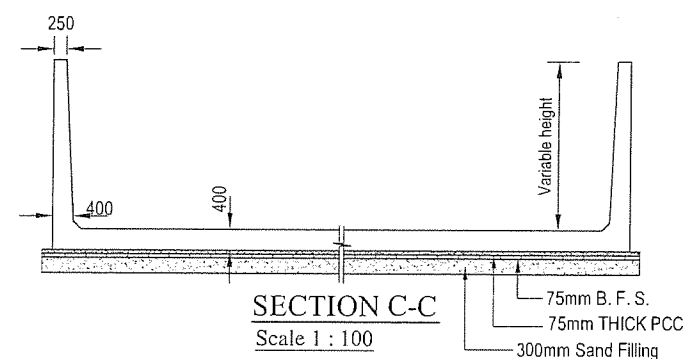
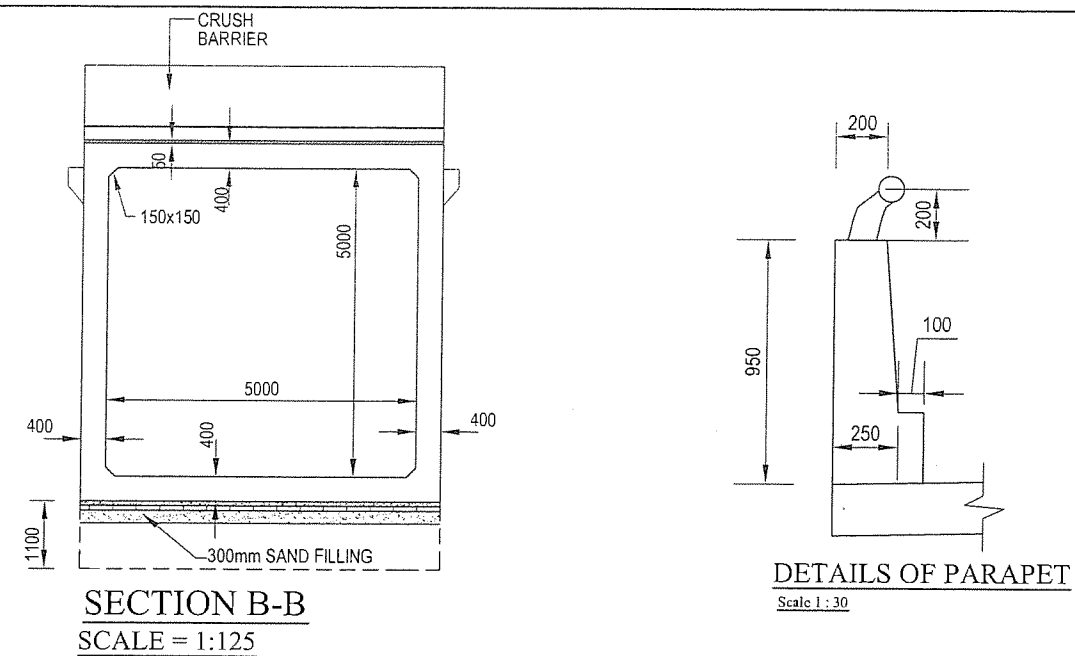
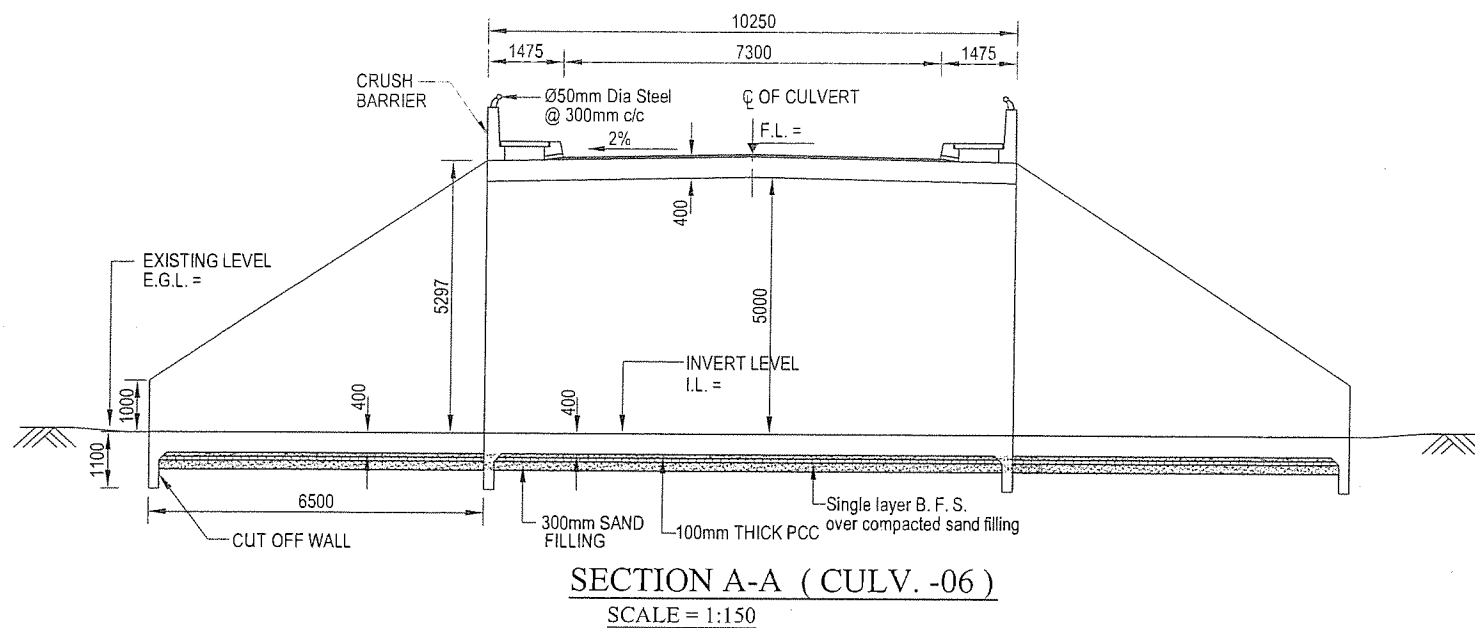
NO.	DESCRIPTION OF REVISION:

ROADS AND HIGHWAYS DEPARTMENT (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :		SCALE :	DATE :	DRAWING NO.
			PLAN AND SECTIONAL ELEVATION OF RCC BOX CULVERT (CULV-04) AT CH. 5+391 KM (1x5.0x5.0)		Scale : As above	02 July' 2013	CULV-04/DWG-01

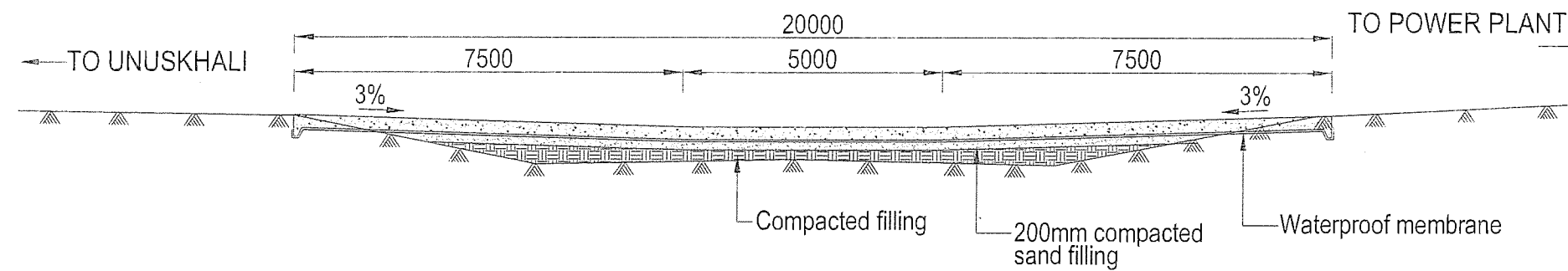


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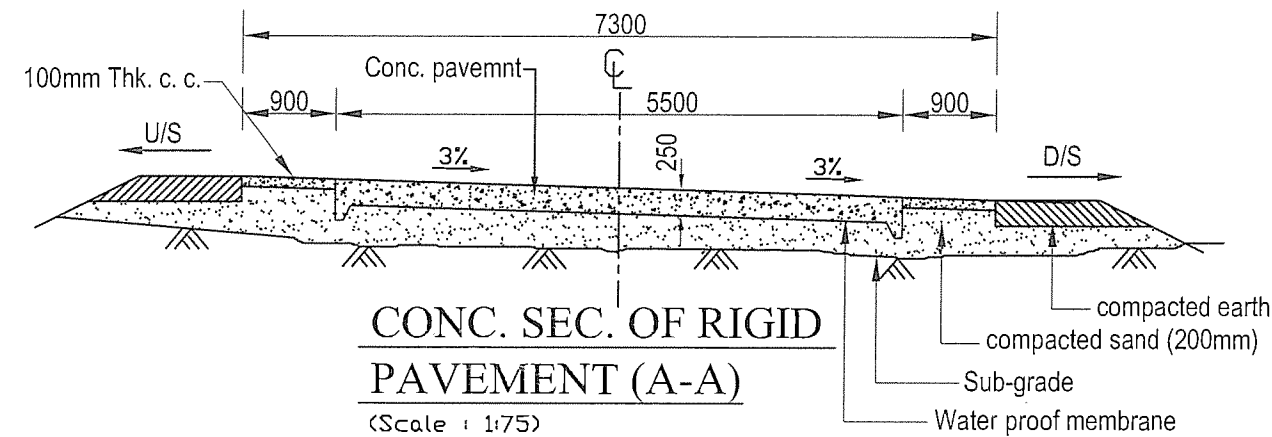
ROADS AND HIGHWAYS DEPARTMENT (RHD)	NAME OF THE PROJECT :	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
Ministry of Communications	Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).		PLAN AND SECTIONAL ELEVATION OF RCC BOX CULVERT (CULV-05) AT CH. 5+503 KM	Scale : As above	02 July' 2013	CULV-05/DWG-01



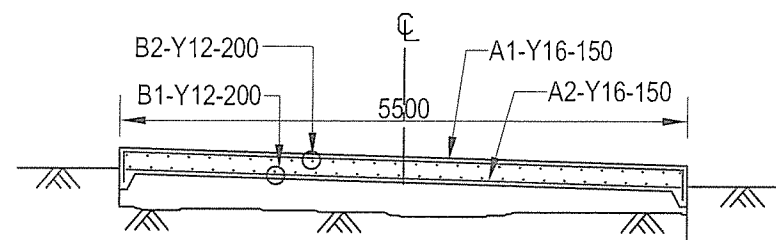
ROADS AND HIGHWAYS DEPARTMENT (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :		SCALE :	DATE :	DRAWING NO.
			PLAN AND SECTIONAL ELEVATION OF RCC BOX CULVERT (CULV-06) AT CH. 6+405 KM (1x5.0x5.0)		Scale : As above	02 July' 2013	CULV-06/DWG-01



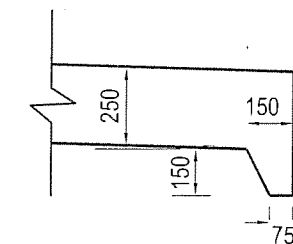
LONG SECTION OF CAUSEWAY (SEC. B-B)
(Scale = 1:125)



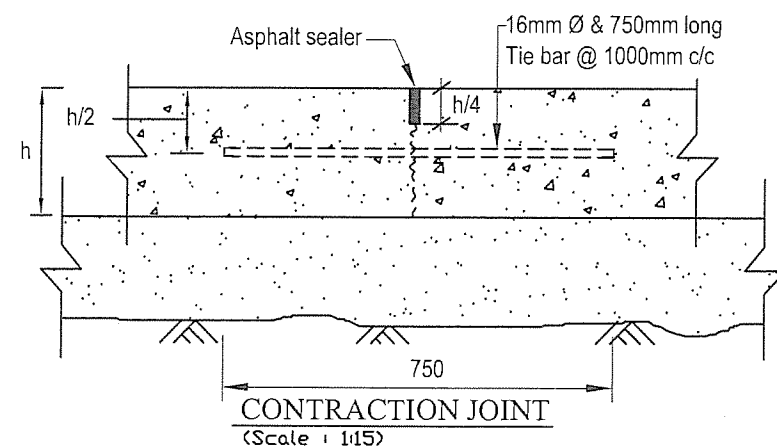
CONC. SEC. OF RIGID PAVEMENT (A-A)
(Scale : 1:75)



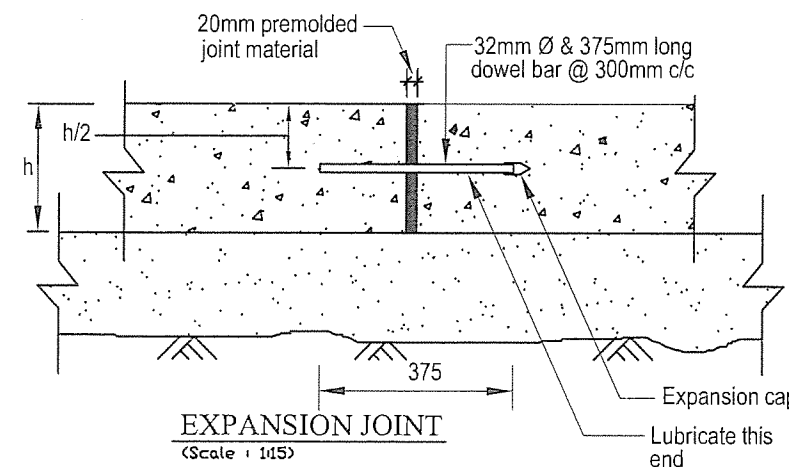
REINF. DETAILS OF RIGID PAVEMENT (A-A)
(Scale : 1:75)



EDGE OF PAVEMENT
(Scale : 1:25)



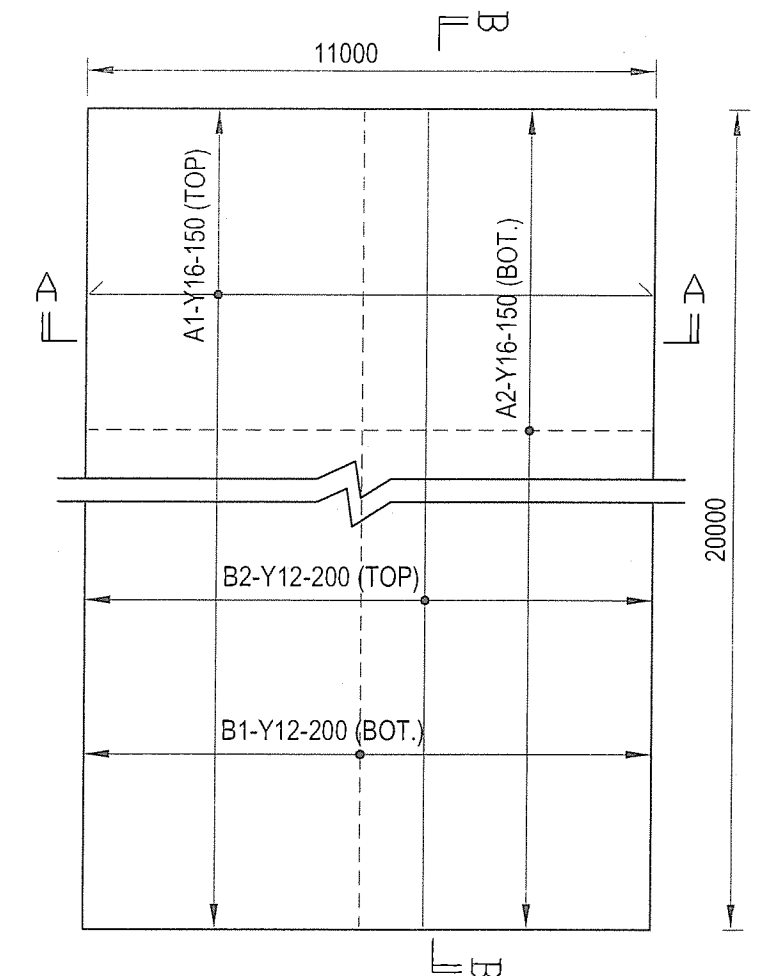
CONTRACTION JOINT
(Scale : 1:15)



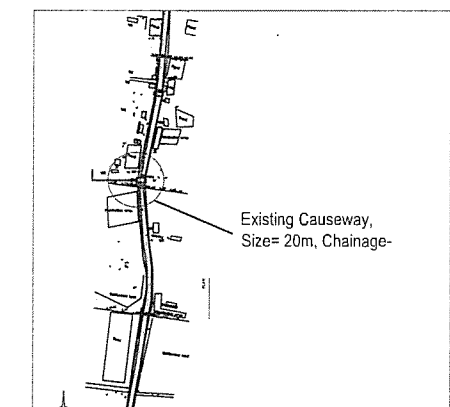
EXPANSION JOINT
(Scale : 1:15)

NOTE :

1. At 30.0m Interval Expansion Joint to be provided.
2. At 15.0m Interval Contraction Joint to be provided.



PLAN OF RIGID PAVEMENT
(Scale : 1:150)



LOCATION MAP
Scale: 1:6000

ROADS AND HIGHWAYS DEPARTMENT (RHD)
Ministry of Communications

NAME OF THE PROJECT :

Preparatory Survey on Chittagong Area Coal Fired
Power Plant Development Project in Bangladesh
(JICA Study).

JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

DRAWING TITLE :

DETAILS OF CAUSEWAY (RECONSTRUCTION) AT
CH. 2+776 KM

SCALE :

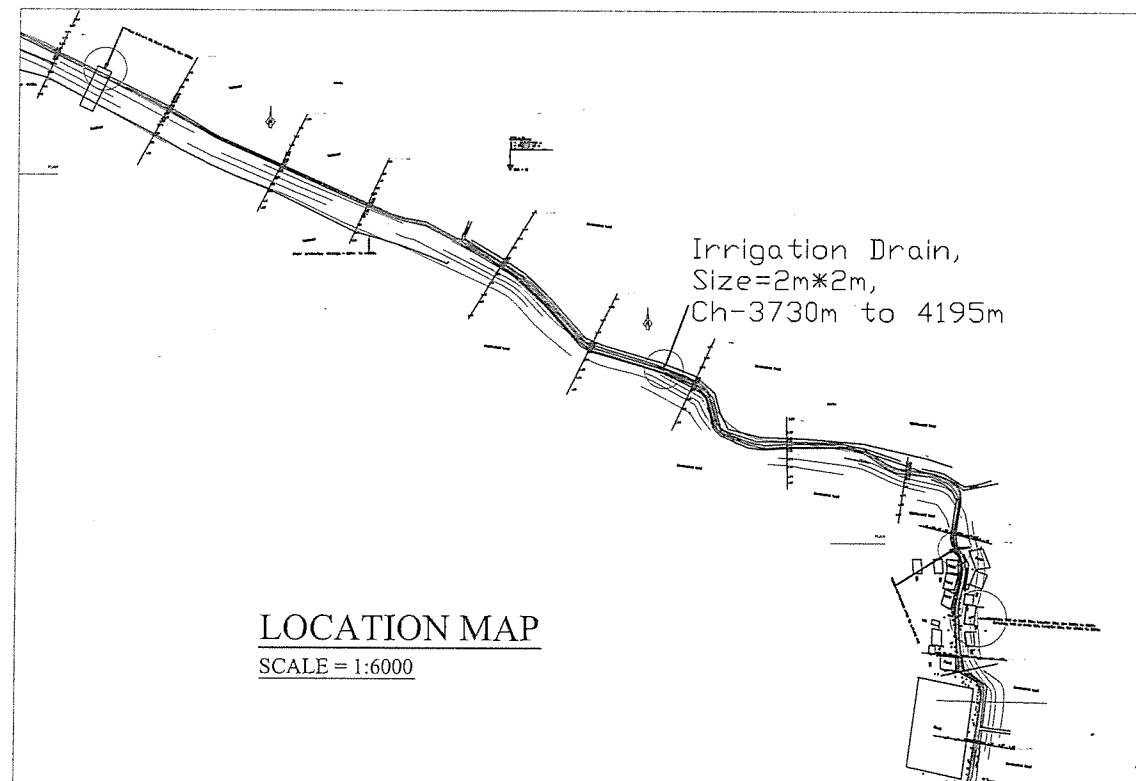
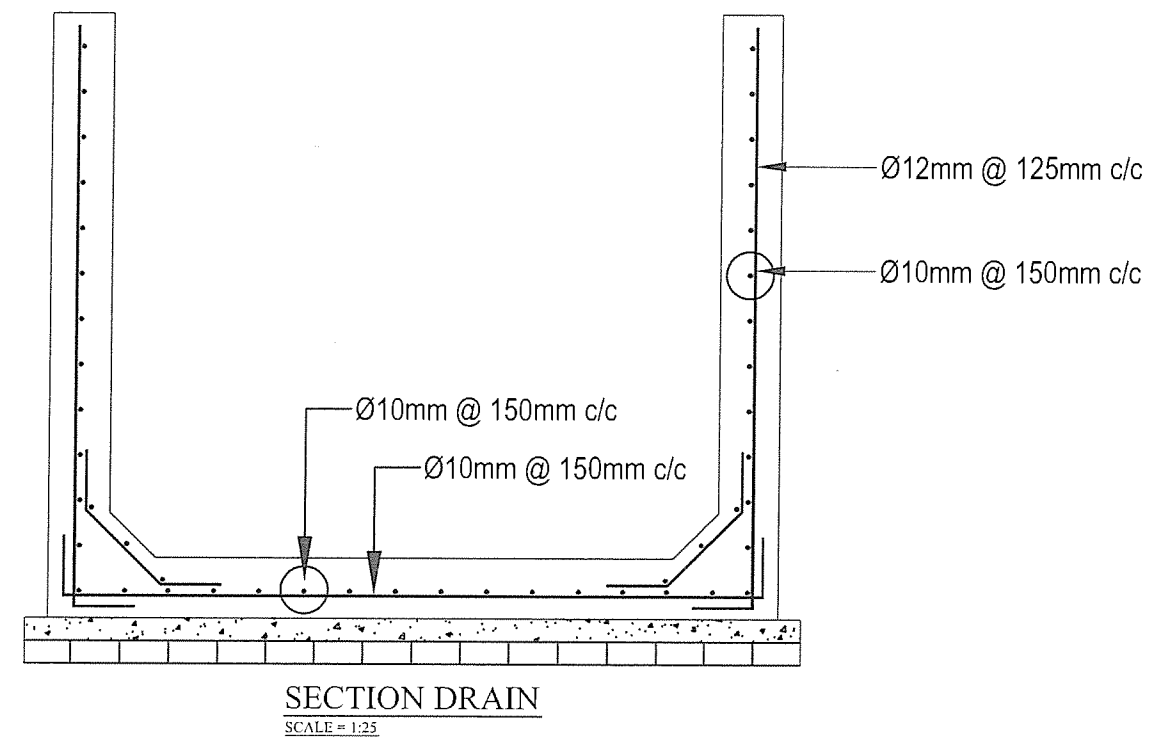
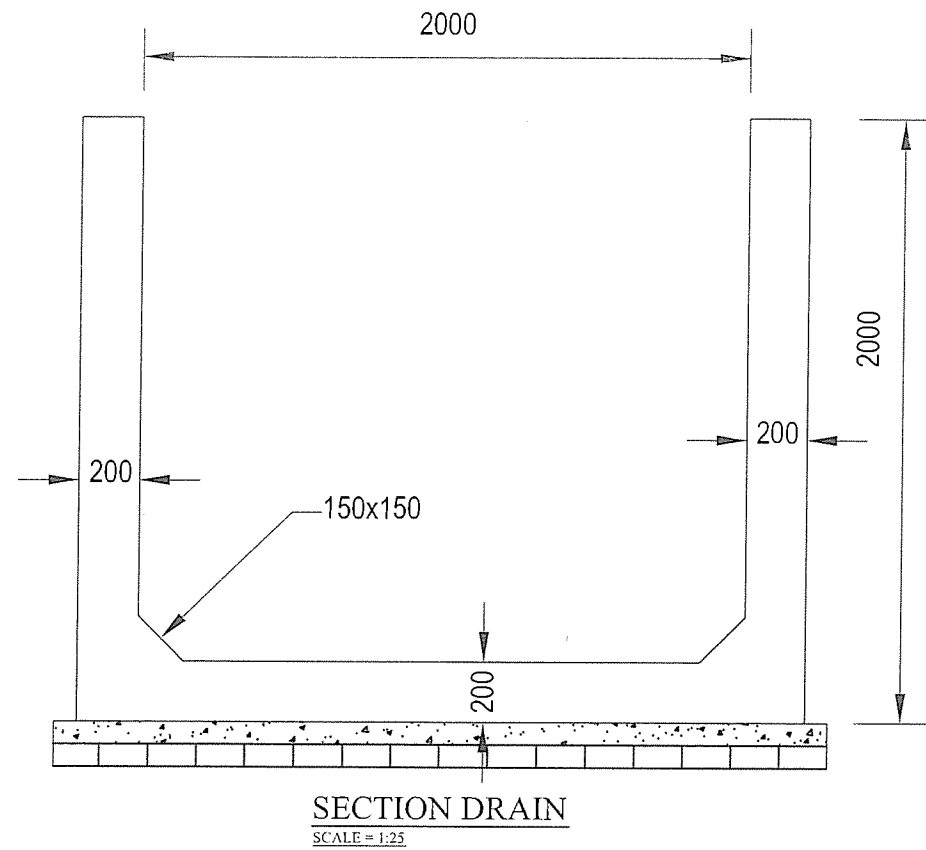
Scale : As above

DATE :

02 July' 2013

DRAWING NO.

C.WAY/DWG-01

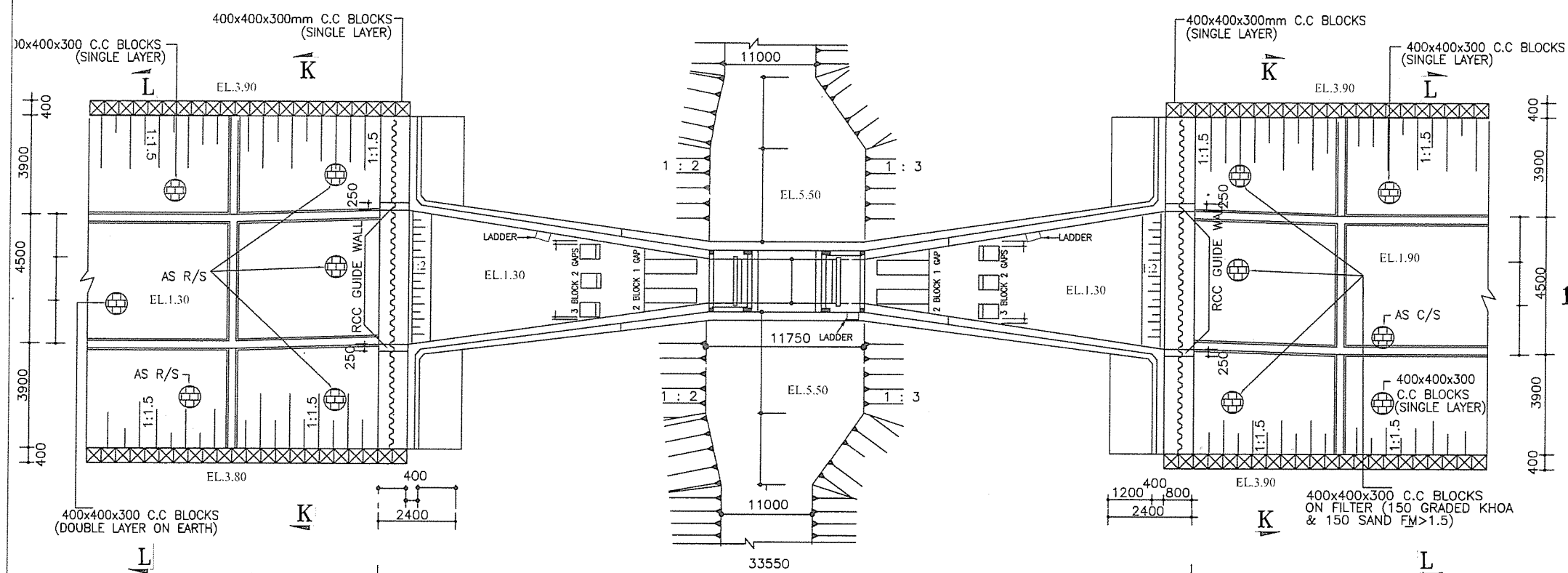
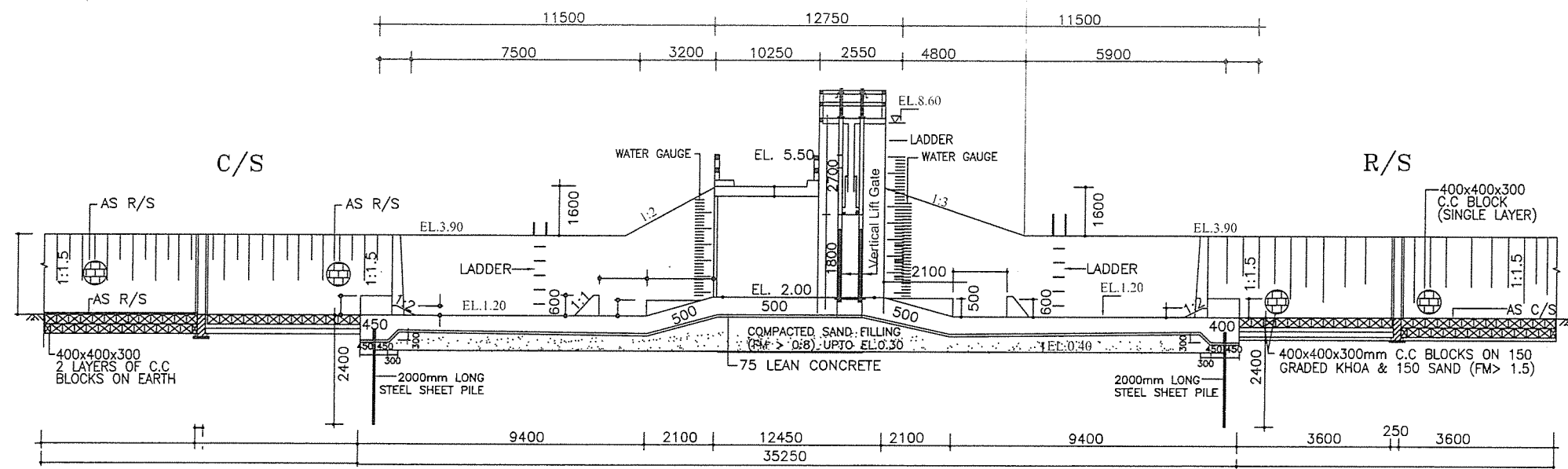


NOTE :

1. Length of Irrigation drain = 465.0m
2. For steel, $f_y = 276$ Mpa
3. For concretel, $f_c = 21$ Mpa

NO.	DESCRIPTION OF REVISION:

ROADS AND HIGHWAYS DEPARTMENT (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			SECTION OF IRRIGATION DRAIN (2.0m x2.0m) FROM CH. 3+730Kkm TO 4+195km	Scale : As above	02 July' 2013	IRRI-DR/DWG-01



SPECIFICATION & NOTES ON MATERIAL & WORK			
1. <u>R.C.C WORKS:</u>	<u>ALL R.C.C WORKS</u>	<u>R.C.C PILES</u>	<u>LEAN CONCRETE</u>
A. Concrete :	28-days standard cylinder crushing strength shall be 17 N/mm ²	28-days standard cylinder crushing strength shall be 20.7 N/mm ²	--
i) Strength:			
ii) Proportion by volume	1:2:4	1:1.5:3	1:3:6
iii) Cement	Portland Type-1	Portland Type-1	Portland Type-1
iv) Coarse aggregate	20mm down graded crushed stone chips (Well graded between 20mm & 8mm size.)	20mm down graded crushed stone chips (Well graded between 20mm & 8mm size.)	Same as in all R.C.C Works
v) Sand	FM 1.80	FM 1.80	FM 1.00
vi) Slump: (at work)	60-75 mm	60-75 mm (Precast) 100-125mm (cast-in situ)	60-75 mm
B. Reinforcement	60 grade deformed M.S. bar	60 grade deformed M.S. bar	--
	Minimum yield strength 414 N/mm ²	Same as in all R.C.C Works	--
	No hook should be used for M.S deformed bars.		
2. Clear concrete cover over reinforcement bars shall be :	Earth faces = 75mm Water faces = 50mm All other faces = 25mm R.C.C Piles = 40mm		
3. Brick bolcks : 1st class bricks in 1:6 cement mortar with sand (FM 1.00)			
4. Back filling : Back filling outside obutments, wing walls and return walls up to FGL shall be done simultaneously on both sides with local sandy soil and should be free from vegetable roots and other organic materials, as soon as wall lifts are constructed.			
5. Foundation Treatment : Foundation treatment to be done by sand filling up to 0.00m PWD (will be reviewed after subsoil investigation results are obtained)			
6. Strength : During pouring samples shall be collected by the contractor in presence of Engineer-in-charge in standard cylinder, one for each wing wall, abutment, return wall, top slab, apron and barrel foundation for testing 7day strengths for quality control.			
7. Protective work : Earthfill in side slopes shall be compacted in horizontal layers to satisfaction of the Engineer in charge before placing filter material and block.			
8. Elevations :	All elevations in this drawing are in meter (PWD).		
9. Dimensions :	All dimensions are in millimeters.		
10. Embedded Parts of gates :	M.S embedded parts such as angles, channels for vertical gates and fram & wall braketers for flap gates welded to anchor bars shall be installed in proper alignment during casting of concrete as shown in working drawing.		

REV.	DESCRIPTION	DATE
SCALE :	DATE :	DRAWING NO.
SCALE : 1:200	AUGUST, 2013	RG/DWG- 01 of 02

Roads and Highways Department (RHD)
Ministry of Communications

NAME OF THE PROJECT :

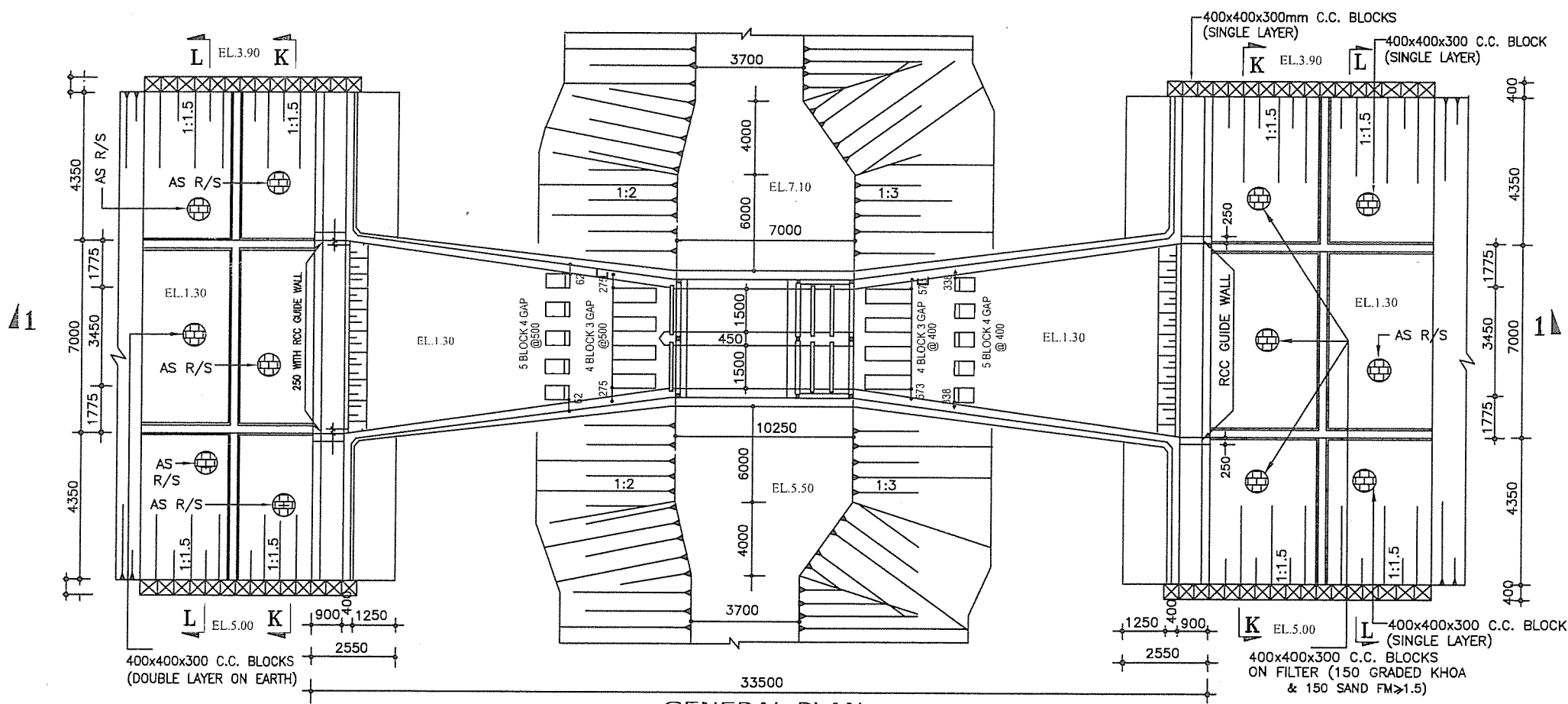
Preparatory Survey on chittagong Area Coal Fired
Power Plant Development Project in Bangladesh
(JICA Study).

JAPAN INTERNATIONAL
COOPERATION AGENCY(JICA)

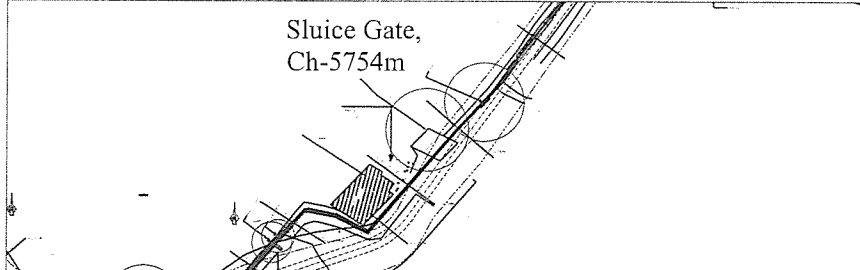
DRAWING TITLE :

Regulator

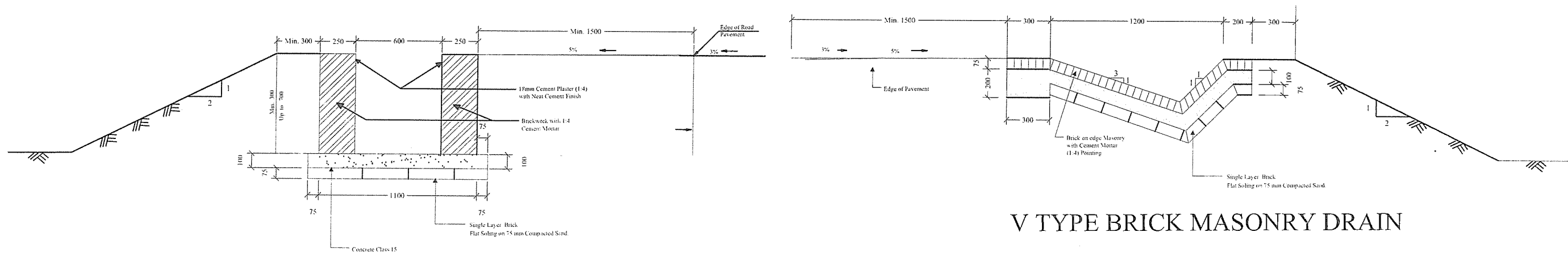
SCALE :	DATE :	DRAWING NO.
SCALE : 1:200	AUGUST, 2013	RG/DWG- 01 of 02



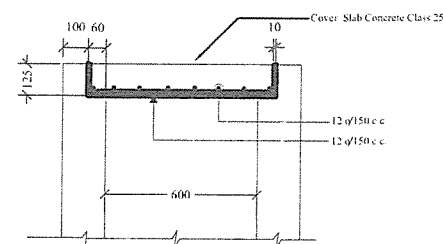
SPECIFICATION & NOTES ON MATERIAL & WORK FOR REGULATORS/SLUICES/WRS/RUBBER DAMS/HEADER TANKS			
WORKS	RCC WORKS		CC WORKS (Lean conc., Blocks, etc)
	IN STRUCTURAL MEMBERS	IN MASS CONCRETE	
1. Concrete			
i) Strength	28-days crushing strength (f'c) shall be 21 N/mm ²	-	-
ii) Mix Proportion by volume	Shall be determined by Trial Mix to achieve specified strength (f'c) 21 N/mm ² However, the minimum mix ratio shall be 1:1.5:3	1:2:4	1:3:6
iii) Cement	Portland Type-1	Portland Type-1	Portland Type-1
iv) Coarse aggregate	20mm down graded crushed stone chips (Well graded between 20mm & 8mm size.)	20mm down graded crushed stone chips (Well graded between 20mm & 8mm size.)	20mm down graded crushed stone chips (Well graded between 20mm & 8mm size.)
v) Sand	FM 1.80	FM 1.80	FM 1.00
vi) Slump (at work)	60-75 mm	60-75 mm	60-75 mm
2. Reinforcement			
i) Grade	60 grade deformed M.S. bar	60 grade deformed M.S. bar	-
ii) Strength	Minimum yield strength (fy) 415 N/mm ²	Minimum yield strength (fy) 415 N/mm ²	-
iii) Clear cover	Earth faces = 75mm Water faces = 50mm All others = 25mm		-
iv) Others			
3. Brick bolcks	1st class bricks in 1:4 cement mortar with sand (FM 1.00)		
4. Back filling	Back filling in abutments, wing walls and return walls up to FGL shall be done simultaneously on both sides of structure with local sand free from vegetable roots and other organic materials.		
5. Foundation Treatment	Foundation treatment to be done as per design & drawing based on subsoil investigation results.		
6. Test Samples	Test samples shall be collected by the contractor from "Flow Line Concrete" during casting in presence of Engineer-in-charge in standard cylinders, one for each wing wall, abutment, return wall, top slab, apron and barrel foundation for testing 7day strengths for quality control.		
7. Protective work	Earthfill in side slopes shall be compacted in horizontal layers to satisfaction of the Engineer in charge before placing filter filter material and blocks.		
8. Embedded Parts of Gates	M.S embedded parts such as angles, channells, anchors plates, wall brackets etc with welded anchor bars (for gates) shall be installed and checked in proper positions and alignments as shown in working drawings before casting of concrete.		
9. Elevations	Eelevations are in meter (PWD) with reference to the TBM kept for the subproject		
10. Dimensions	Dimensions are in millimeters unless otherwise mentioned.		



							REV.	DESCRIPTION	DATE
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE : Sluice Gate				SCALE : SCALE : 1:200	DATE : AUGUST, 2013	DRAWING NO. SG/DWG- 02 of 02



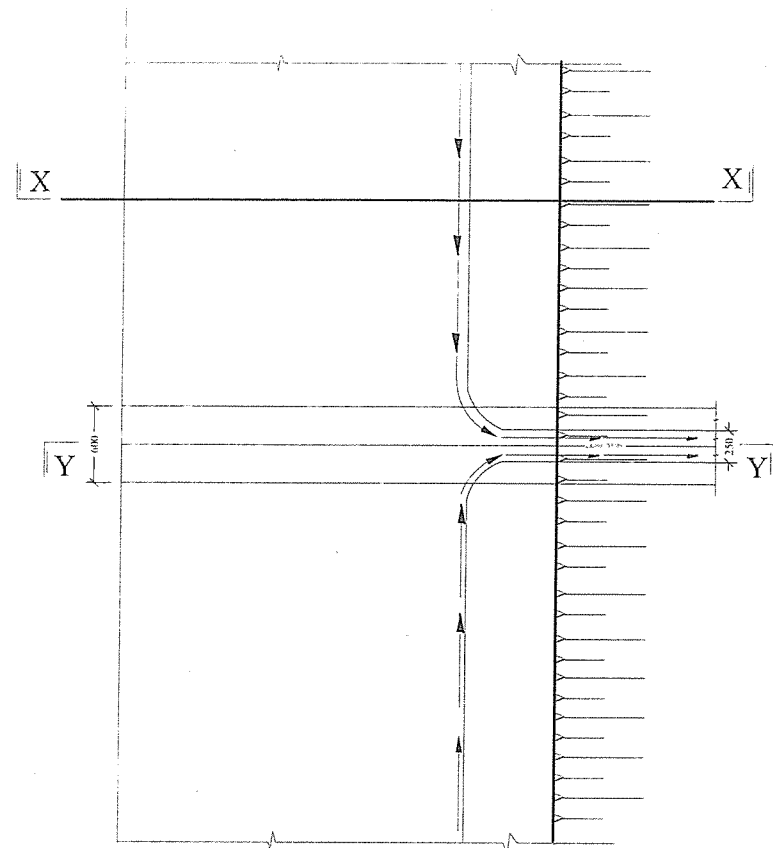
V TYPE BRICK MASONRY DRAIN



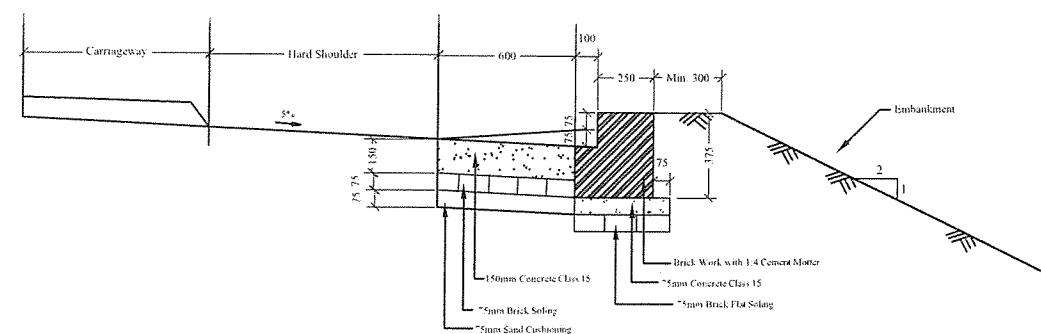
1. All dimensions are in mm unless otherwise specified.

1. Subgrade under drains to be compacted to 98% MDD or as directed by the Engineer.
2. All drains to be laid to a longitudinal fall of not less than 1:300 with a positive outfall to a water course.
3. Open " U " drains to be located as far as possible from road edge.

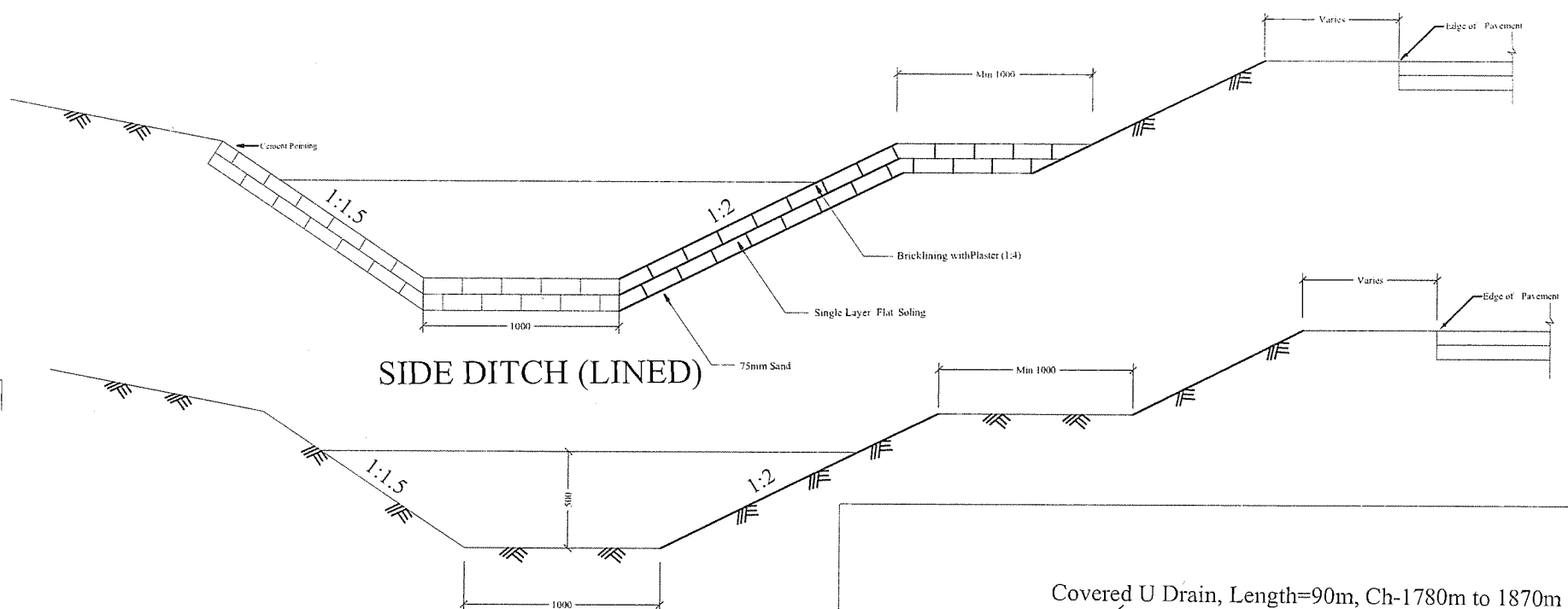
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT :	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	REV.	DESCRIPTION	DATE
	Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).		SCALE :	DATE :	DRAWING NO.	
			Saucer Drain, Side Ditch and Side Ditch (Lined)	SCALE : 1:30	AUGUST, 2013	SDR/DWG- 01 of 04



PLAN

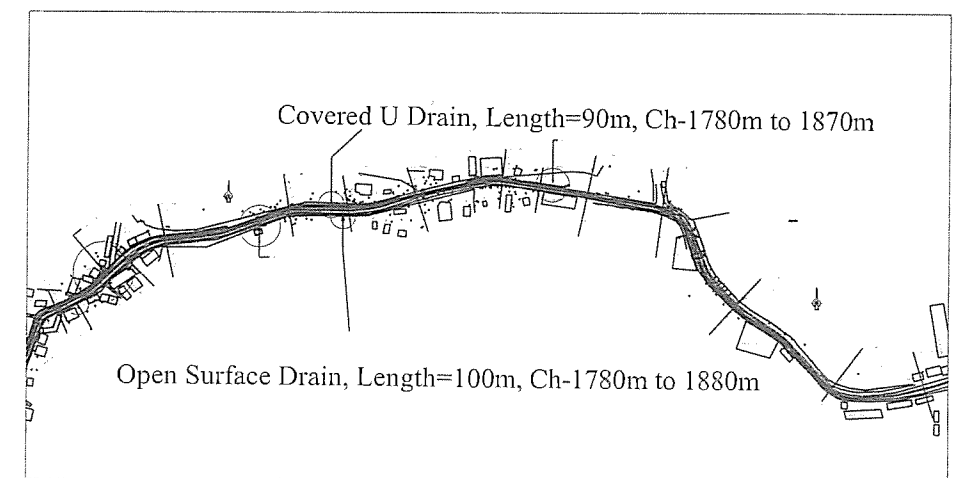


SECTION X-X

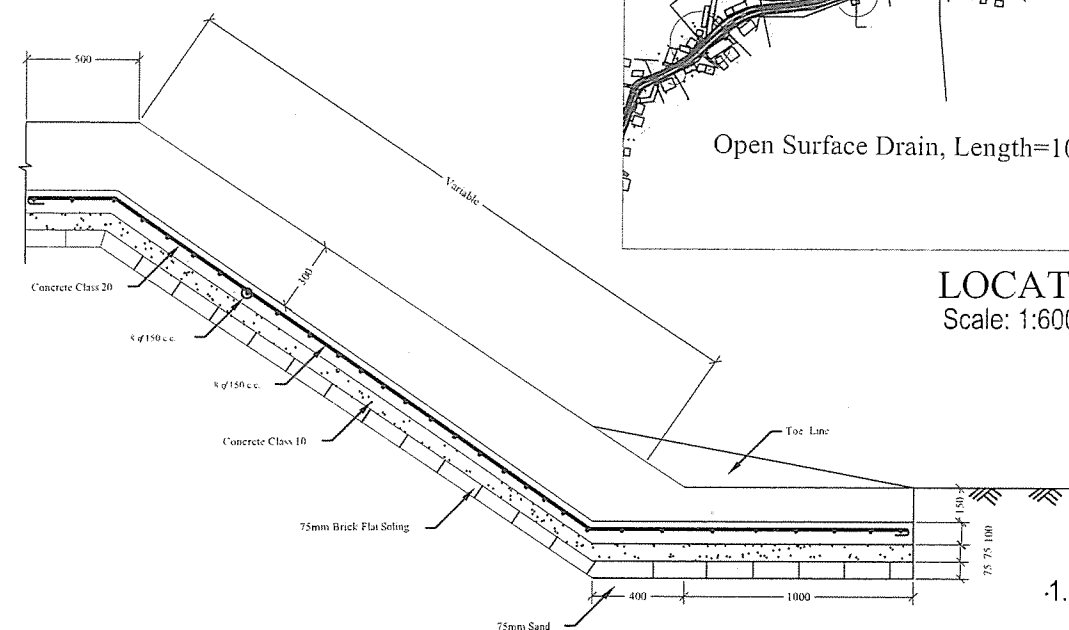


SIDE DITCH (LINED)

SIDE DITCH (OPEN)



LOCATION MAP
Scale: 1:6000

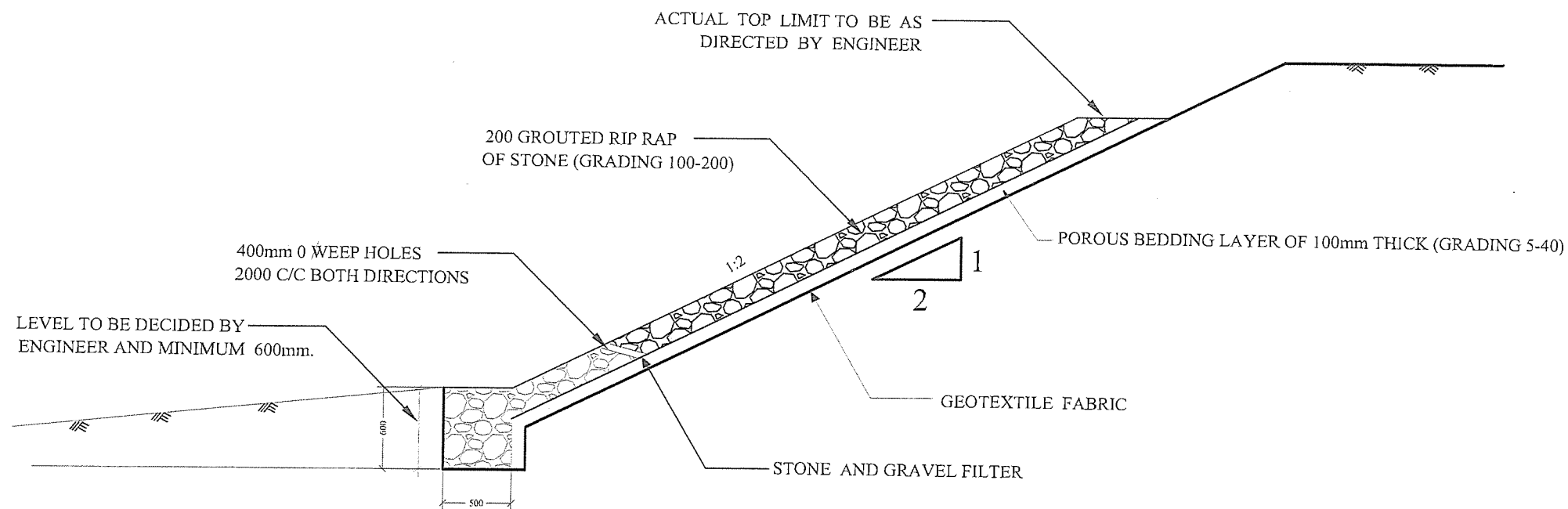


SECTION Y-Y

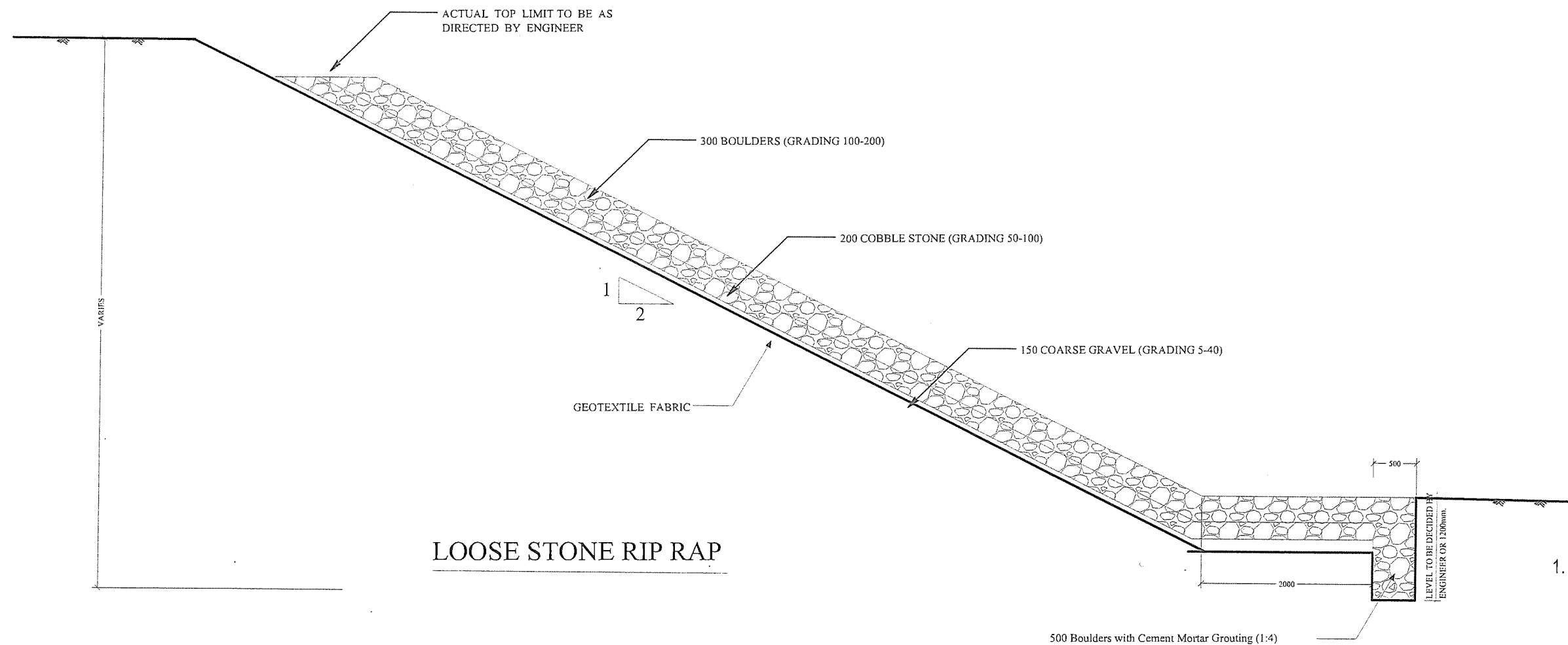
1. All dimensions are in mm unless otherwise specified.

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			Saucer Drain, Side Ditch and Side Ditch (Lined)	SCALE : 1:30	AUGUST, 2013	SDR/DWG- 02 of 04



GRouted RIP RAP



LOOSE STONE RIP RAP

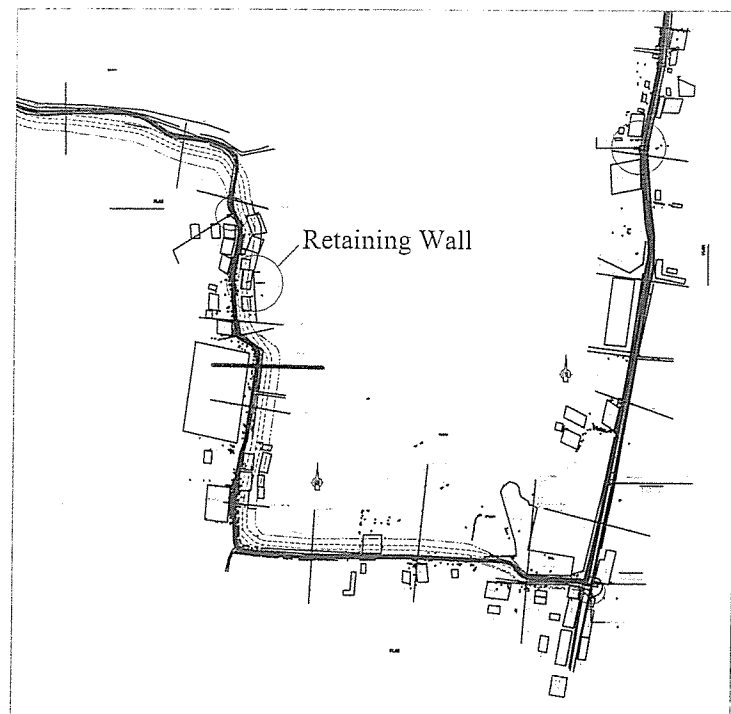
Notes :

1. GEOTEXTILE FABRIC SHOWN ON THE DRAWING OR AS DIRECTED BY ENGINEER SHALL MEET THE FOLLOWING SPECIFICATION

1. All dimensions are in mm unless otherwise specified.

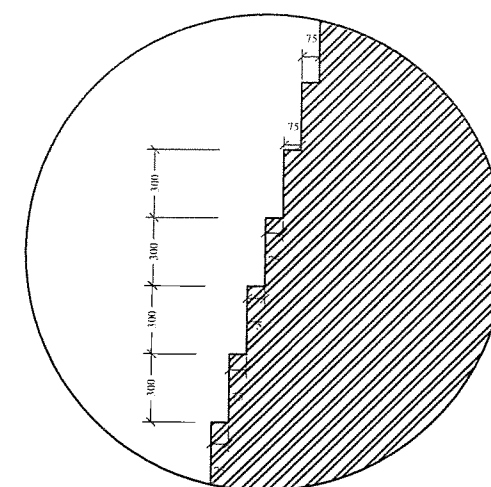
REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			Grouted Rip Rap and Loose Stone Rip Rap	SCALE : 1:1000	AUGUST, 2013	SDR/DWG- 03 of 04

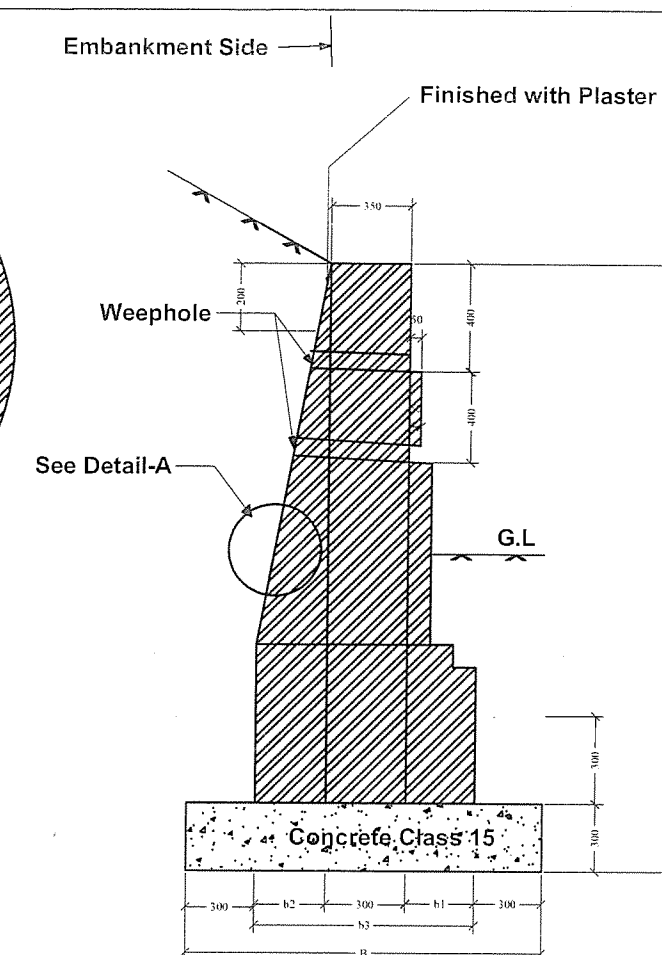


LOCATION MAP
Scale: 1:6000

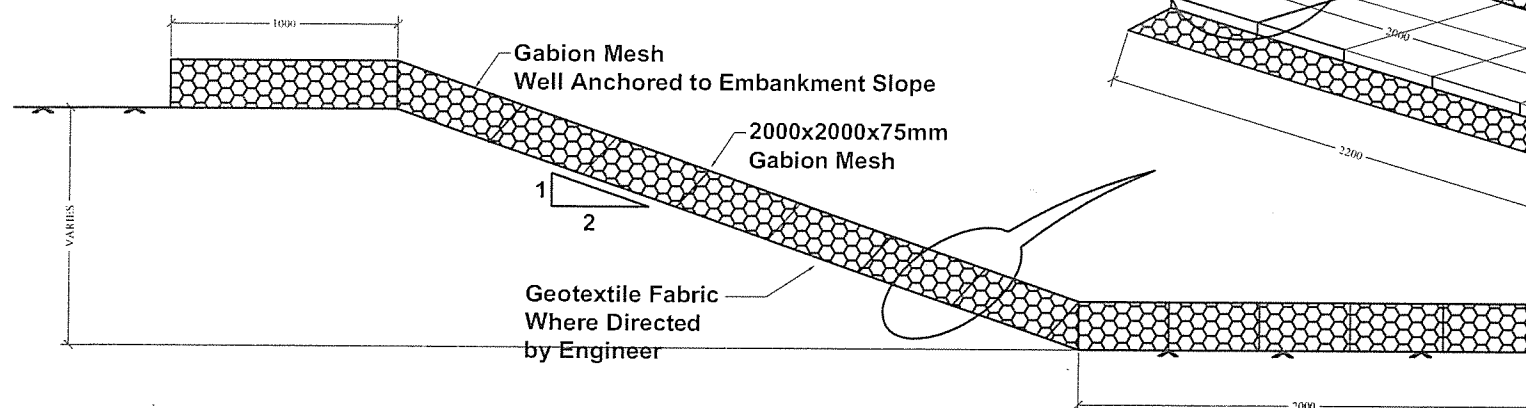
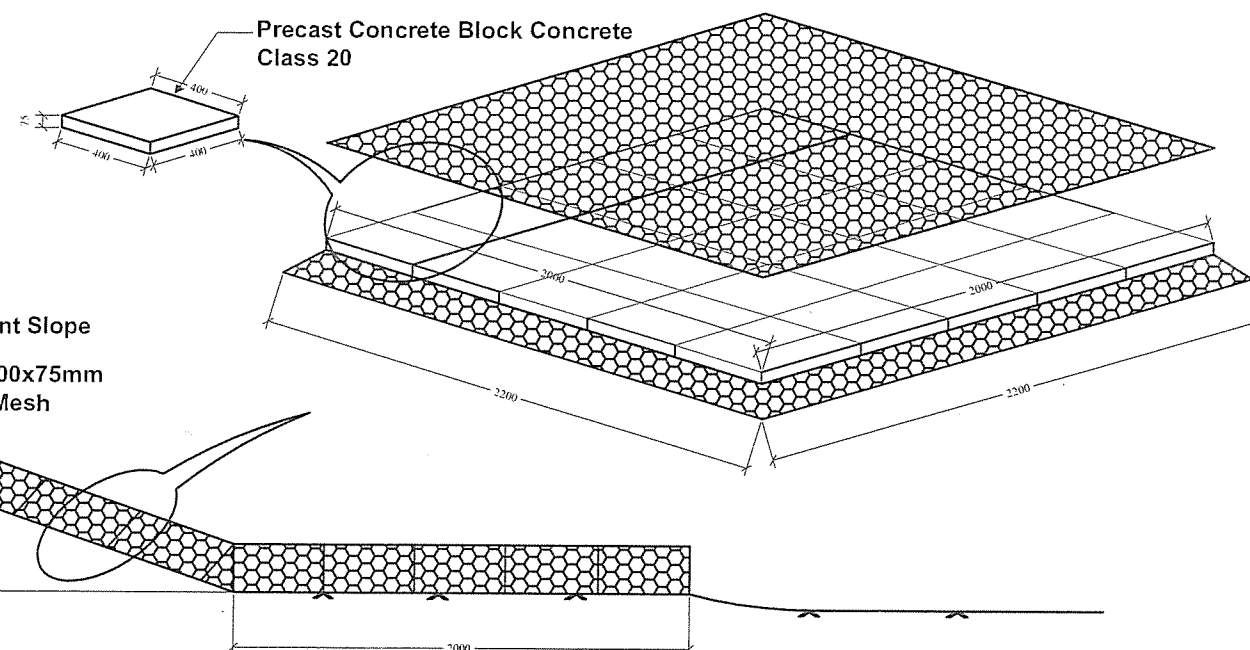
Dimension	H<2500		
	1500	2500	Compute as Follows
b1	100	210	(H-600) x 0.11
b2	200	440	(H-650) x 0.24
b3	600	950	b1+b2+300
B	1300	1650	b3+700



DETAIL OF A



BRICK MASONRY TOE WALL



EMBANKMENT SLOPE PROTECTION (CONCRETE BLOCKS)

Notes :

For Toe Wall

1. All brick masonry work shall be done in 1:3 cementmar mortar.
2. Weep holes shall be provided as per specification and shall be provided one per 1.5m.square of vertical area unless directed by the engineer. Their spacing shall be staggered
3. Applicable only where subgrade > 5% CBR.

1. All dimensions are in mm unless otherwise specified.

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			Roadside Drainage	SCALE : 1:30	AUGUST, 2013	SDR/DWG- 04 of 04

GENERAL NOTES FOR THE CONSTRUCTION OF REINFORCED CONCRETE (RCC) GHAT

1. CEMENT :

ORDINARY PORTLAND CEMENT TYPE-I(ASTM-C150-86)

a) SETTING TIME :

INITIAL SETTING TIME : NOT LESS THAN 45 MINUTES

FINAL SETTING TIME : NOT MORE THAN 8 HOURS

b) STRENGTH :

COMPRESSIVE STRENGTH 50mm CUBE SPECIMEN AS PER ASTM-C150-86

07 DAYS STRENGTH : 19.30 Mpa (2800 psi).
2. REINFORCEMENT :

a) STRENGTH :

YIELD STRENGTH (fy) OF MILD STEEL DEFORMED BAR SHALL NOT BE LESS THAN 410 N/sq.mm (60000 psi)

AND THE STEEL SHOULD CONFORM ASTM-A615-88 & EQUIVALENT.

b) SPLICES IN REINFORCEMENT

-SPLICES IN REINFORCEMENT IF NECESSARY SHALL BE MADE ONLY AS APPROVED BY THE ENGINEER-IN-CHARGE.

-SPLICES IN REINFORCEMENT OF MAXIMUM STRESS IN SLABS, BEAMS AND GIRDERS SHOULD BE AVOIDED.

c) LAP LENGTH :

i) FOR TENSION M.S. DEFORMED BAR

- 40 BAR DIAMETER WITHOUT HOOKS

ii) FOR COMPRESSION M.S. DEFORMED BAR

- 30 BAR DIAMETER WITHOUT HOOKS
3. CONCRETE :

i) FOR PILE CAP, ABUTMENT & WINGWALL, PIER, GIRDER, DIAPHRAGM, DECK SLAB, RAIL POSTS AND HAND RAILS.

28 DAYS STANDARD CYLINDER CRUSHING STRENGTH, fc = 25 N/sq.mm (3600 psi)

ii) FOR RCC PRECAST PILES.

28 DAYS STANDARD CYLINDER CRUSHING STRENGTH, fc = 25 N/sq.mm (3600 psi)

YIELD STRENGTH OF M.S. DEFORMED BAR, fy = 410 N/sq.mm (60,000 psi)

FOR PRECAST PILE MIX RATIO BY VOLUME, CEMENT:SAND:COARSE AGGREGATE : 1:1.5:3

iii) FOR RCC CAST-IN-SITU PILES.

28 DAYS STANDARD CYLINDER CRUSHING STRENGTH, fc = 25 N/sq.mm (3600 psi)

YIELD STRENGTH OF M.S. DEFORMED BAR, fy = 410 N/sq.mm (60,000 psi)
4. MINIMUM CLEAR COVER TO MAIN REINFORCEMENT :

a) FOR ROOF SLAB AND BUILDING : 20mm

b) FOR DECK SLAB

TOP REINF. : 50 mm

BOTTOM REINF. : 25 mm

c) FOR GIRDER, DIAPHRAGM AND PIER CAP :

BOTTOM BAR : 40 mm

SIDE : 40 mm

d) FOR RETAINING WALL :

EARTH FACE : 50 mm when form work is used

WATER FACE : 50 mm when form work is used

e) PILE CAP

BOTTOM : 50 mm above pile cut-off level

OTHER FACES : 50 mm

f) MEMBERS CAST AGAINST AND PERMANENTLY

EXPOSED TO NON-SALINE WATER / SOIL : 75 mm

g) MEMBERS PERMANENTLY EXPOSED TO

SALINE WATER / SOIL : 100 mm
5. MIXER MACHINE AND VIBRATOR MUST BE USED IN ALL RCC CASTING.

6. CONSTRUCTION JOINTS IN ADDITION TO THE PLACES SHOWN IN THE DRAWING SHALL BE PROVIDED AS PER DIRECTION OF THE ENGINEER-IN-CHARGE.

7. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE MENTIONED.

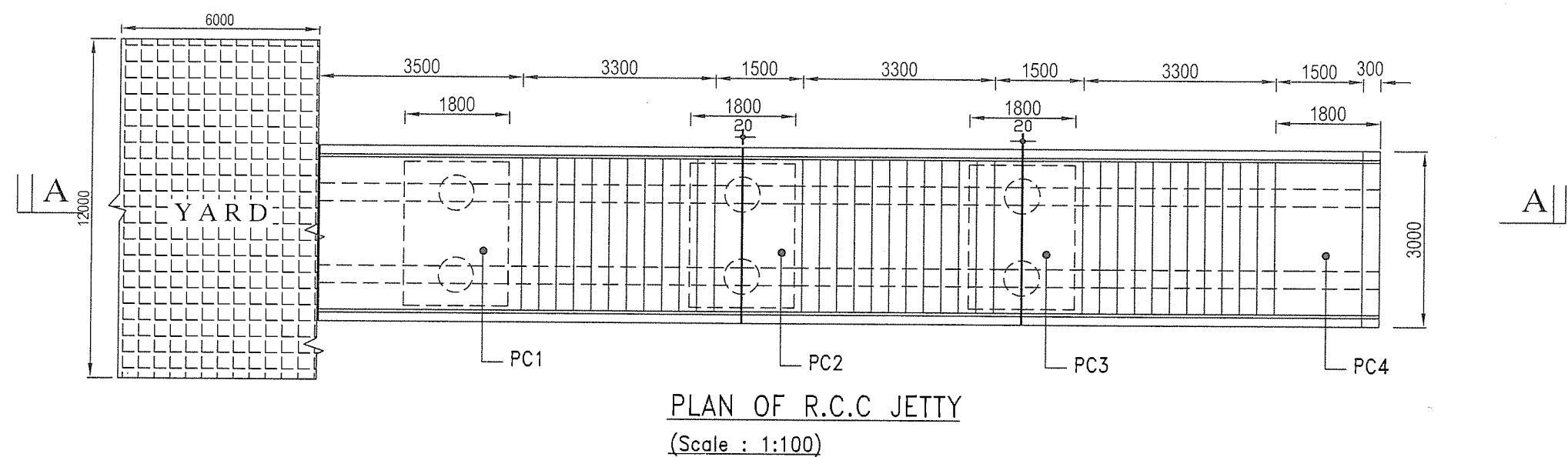
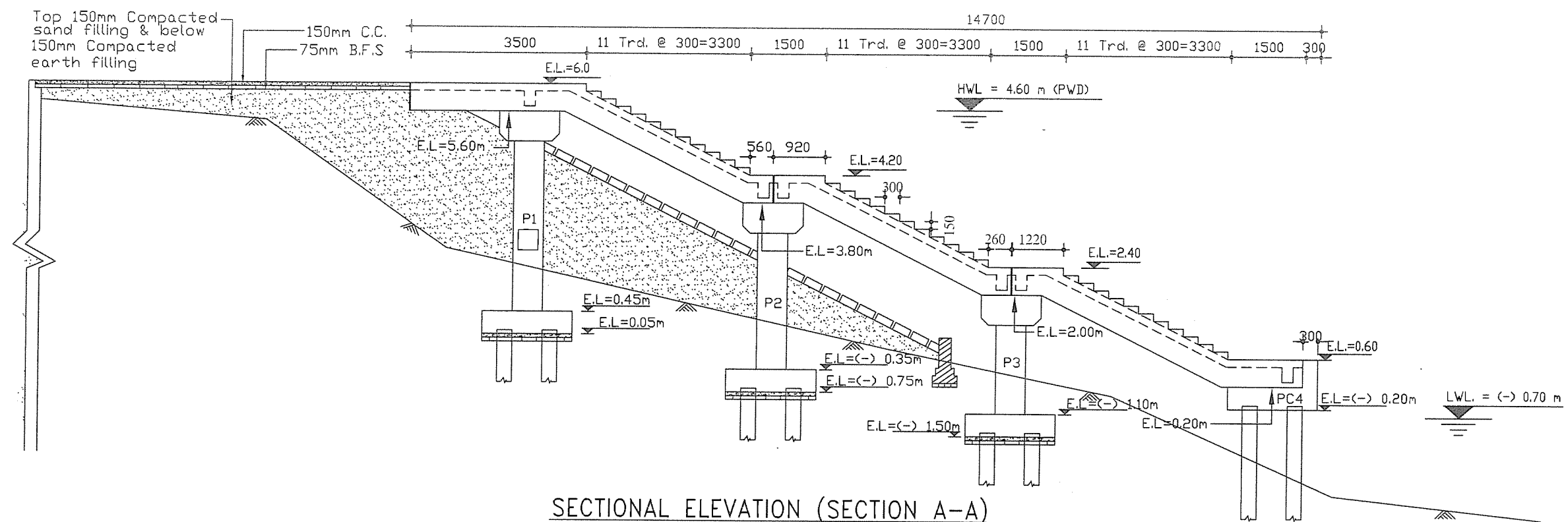
8. COARSE AGGREGATE : 20 mm down graded stone chips in accordance with BS882 or equivalent.

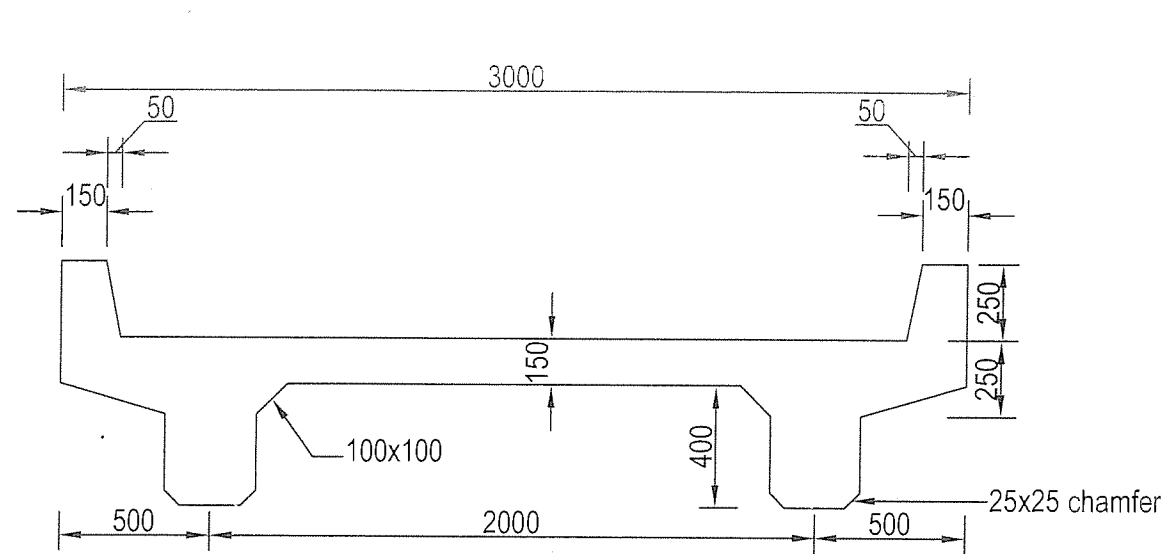
9. SAND FILLING MUST BE MECHANICALLY COMPECTED AND COMPACTION SHALL BE OF 95% MDD (MODIFIED)

10. FOR HANDLING /OR LIFTING OF PRECAST PILE 25mm ~50mm DIAMETER TOGGLE HOLES REQUIRD AND THEIR LOCATION ARE AT 0.206L FROM EITHER END, WERE L=LENGTH OF PILE.

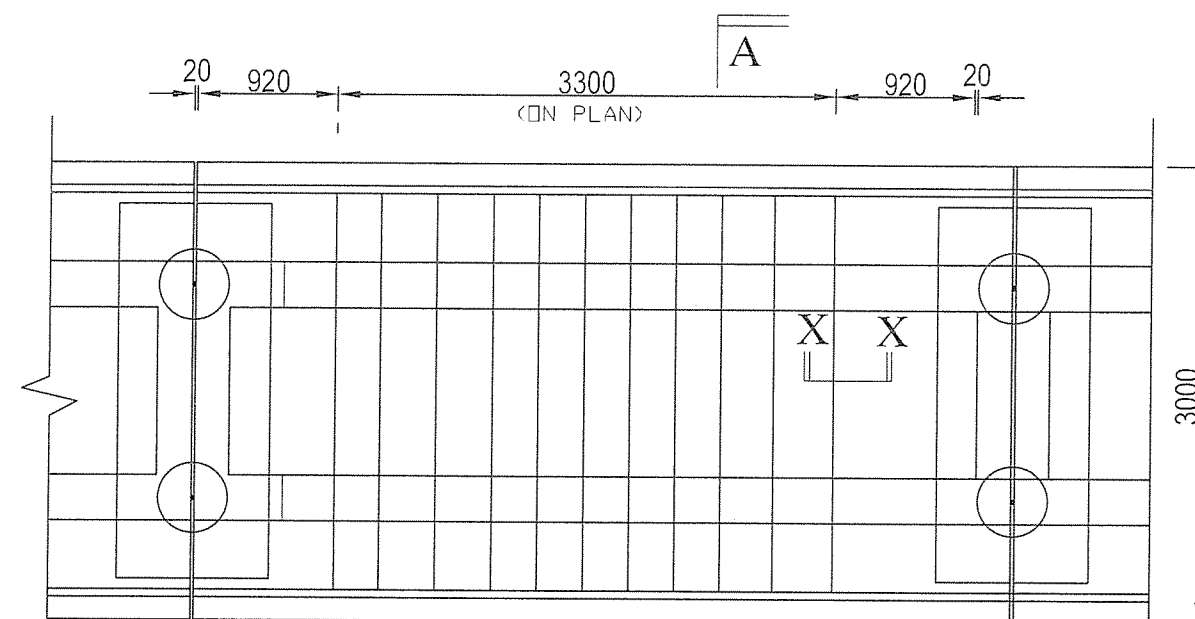
REV.	DESCRIPTION	DATE

ROADS AND HIGHWAYS DEPARTMENT (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			GENERAL NOTES OF RCC WORK	Scale : N.T.S.	Sept' 2013	BRDG/GEN/DWG-01

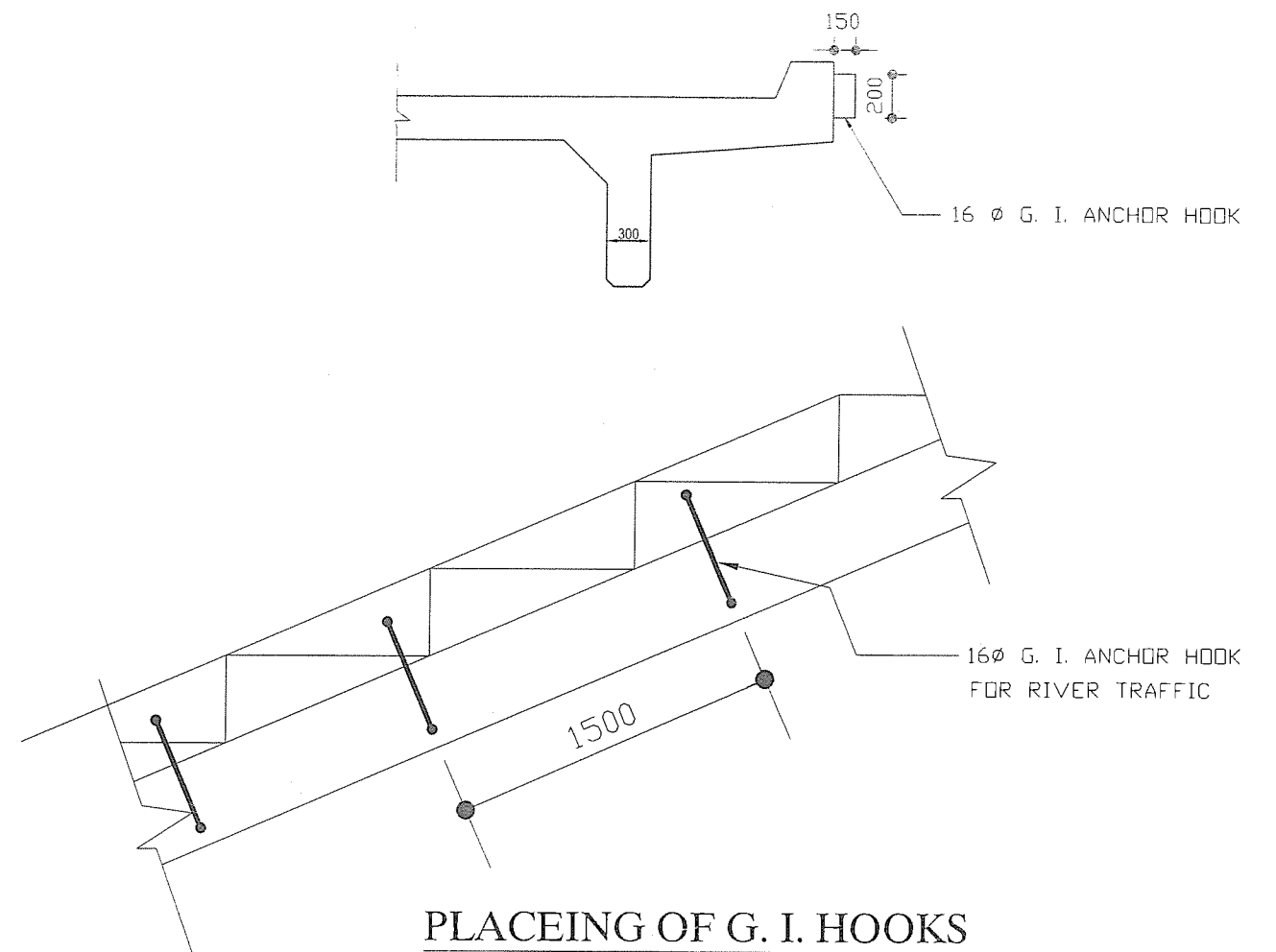
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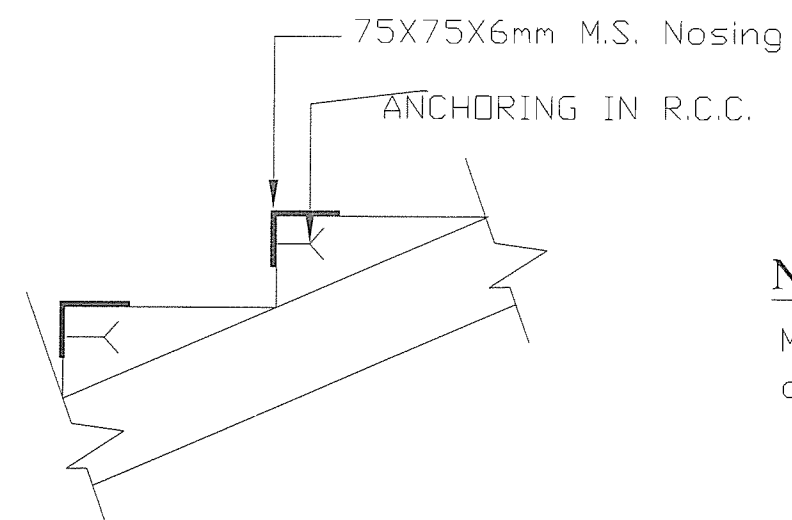
SECTION A-A



PLAN



PLACEING OF G. I. HOOKS



SEC. X-X
PLACING OF M.S. NOSING

NOTE :

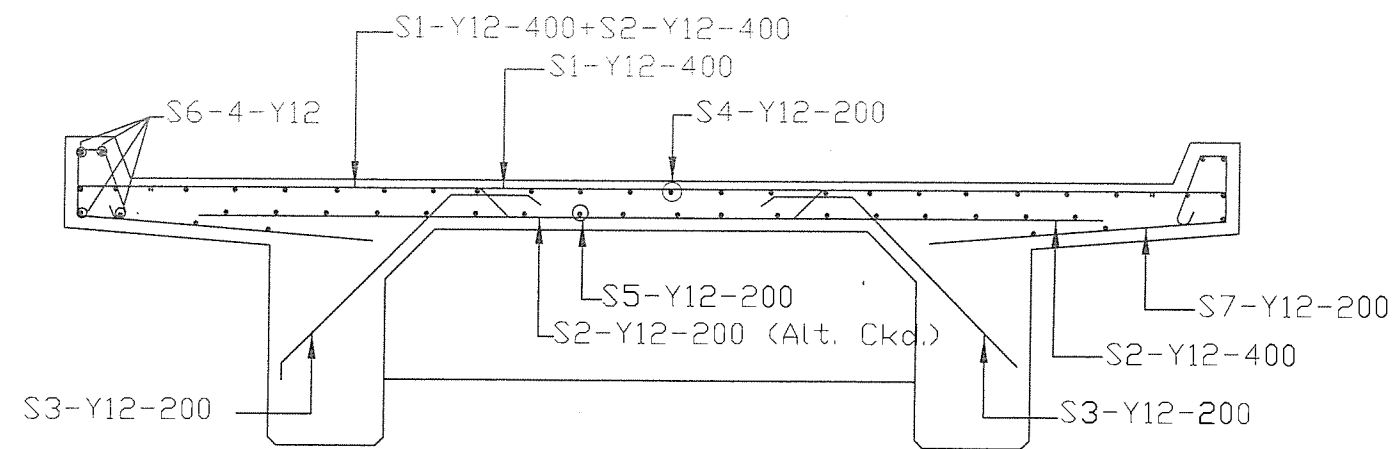
M.S Nosing to be provided on all edges of step

REV.	DESCRIPTION	DATE	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			DETAILS OF DECK SECTION FOR RCC JETTY (REVISED)	Scale : As above	02 July' 2013	BRDG/DECK/DWG-04

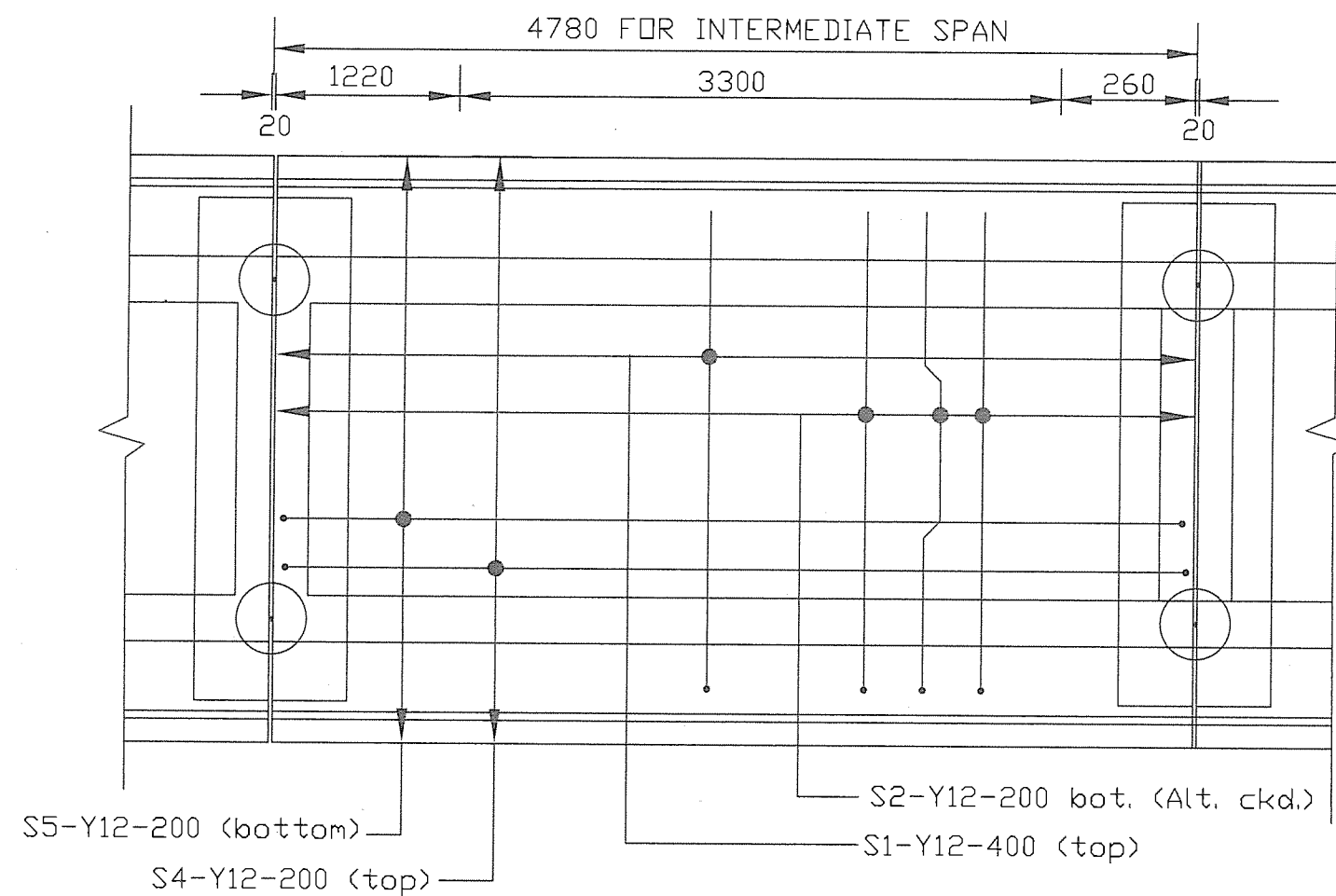
ROADS AND HIGHWAYS DEPARTMENT (RHD)
Ministry of Communications

NAME OF THE PROJECT :
Preparatory Survey on Chittagong Area Coal Fired
Power Plant Development Project in Bangladesh
(JICA Study).

JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)



REINF. DETAIL OF SLAB



**PLAN OF DECK SLAB
(REINF.)**

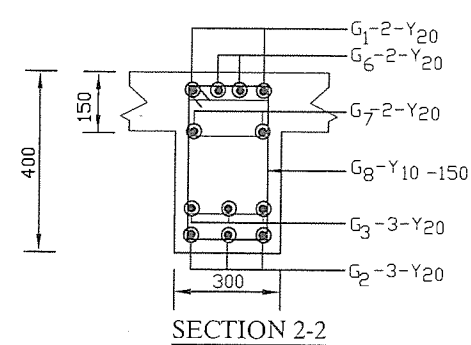
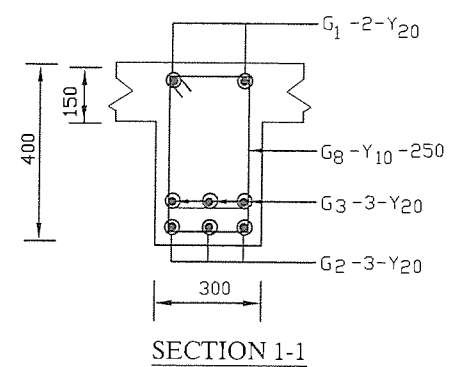
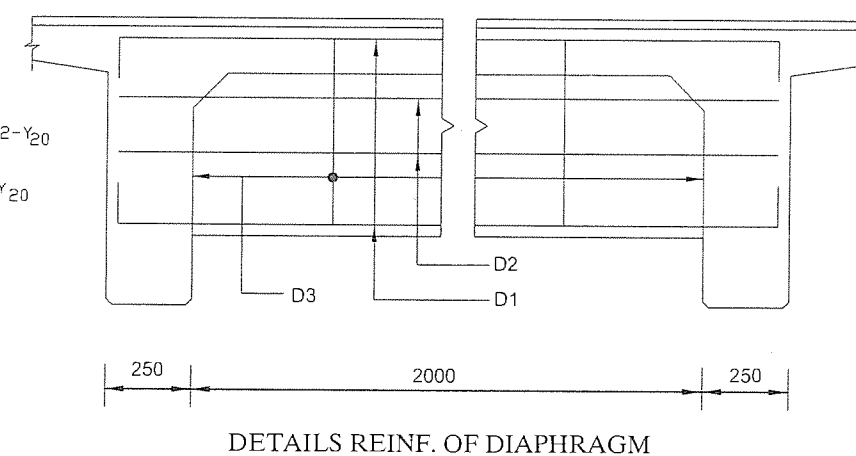
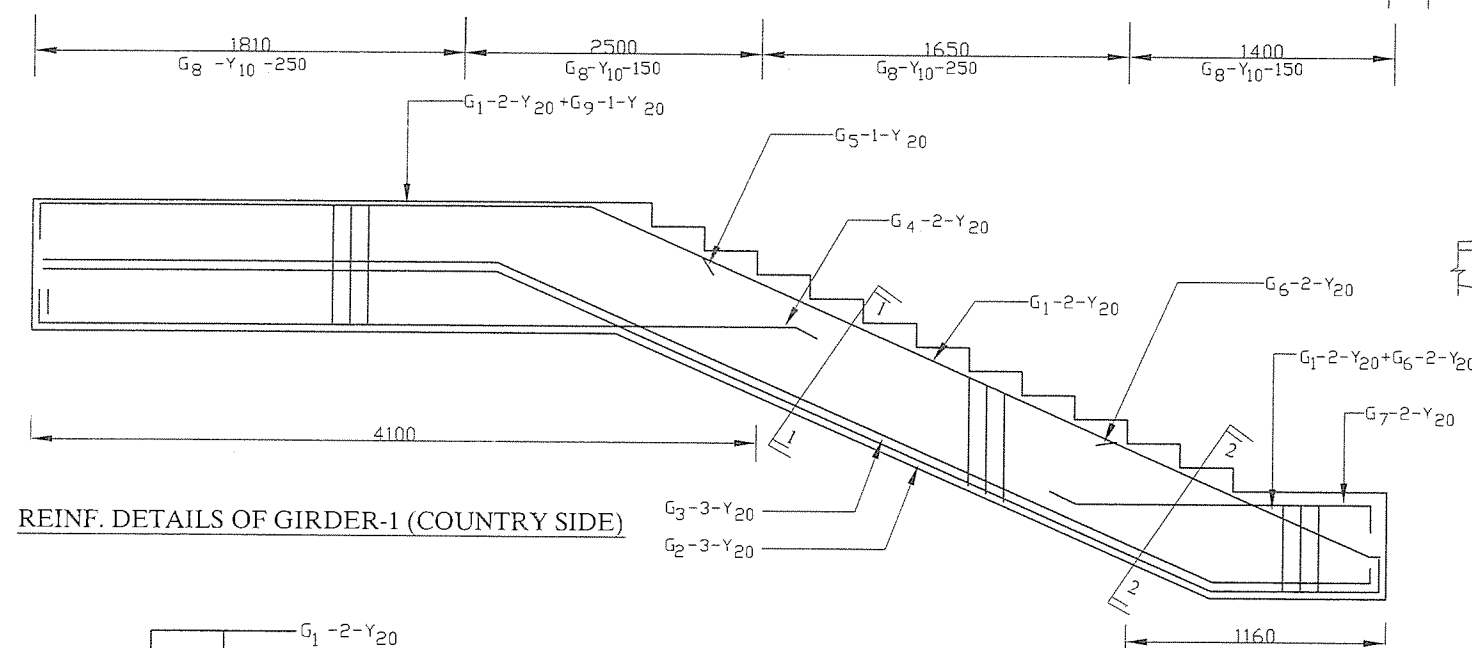
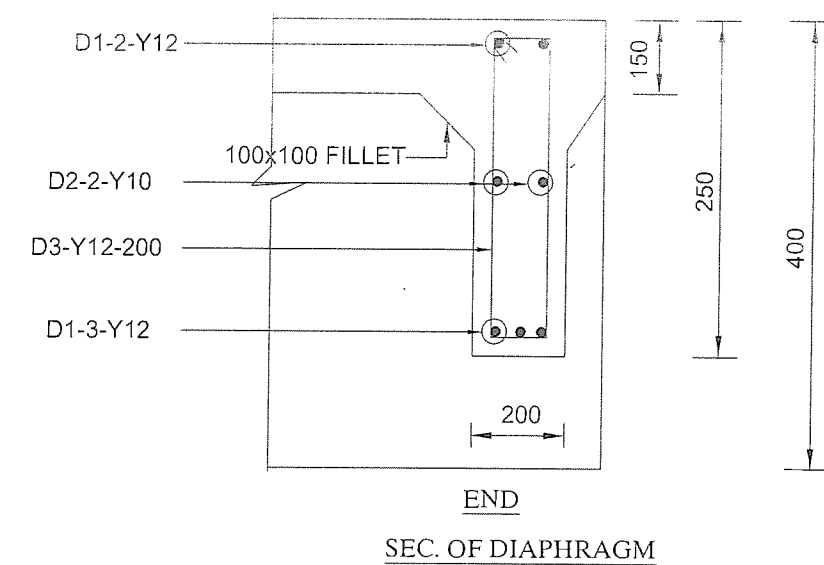
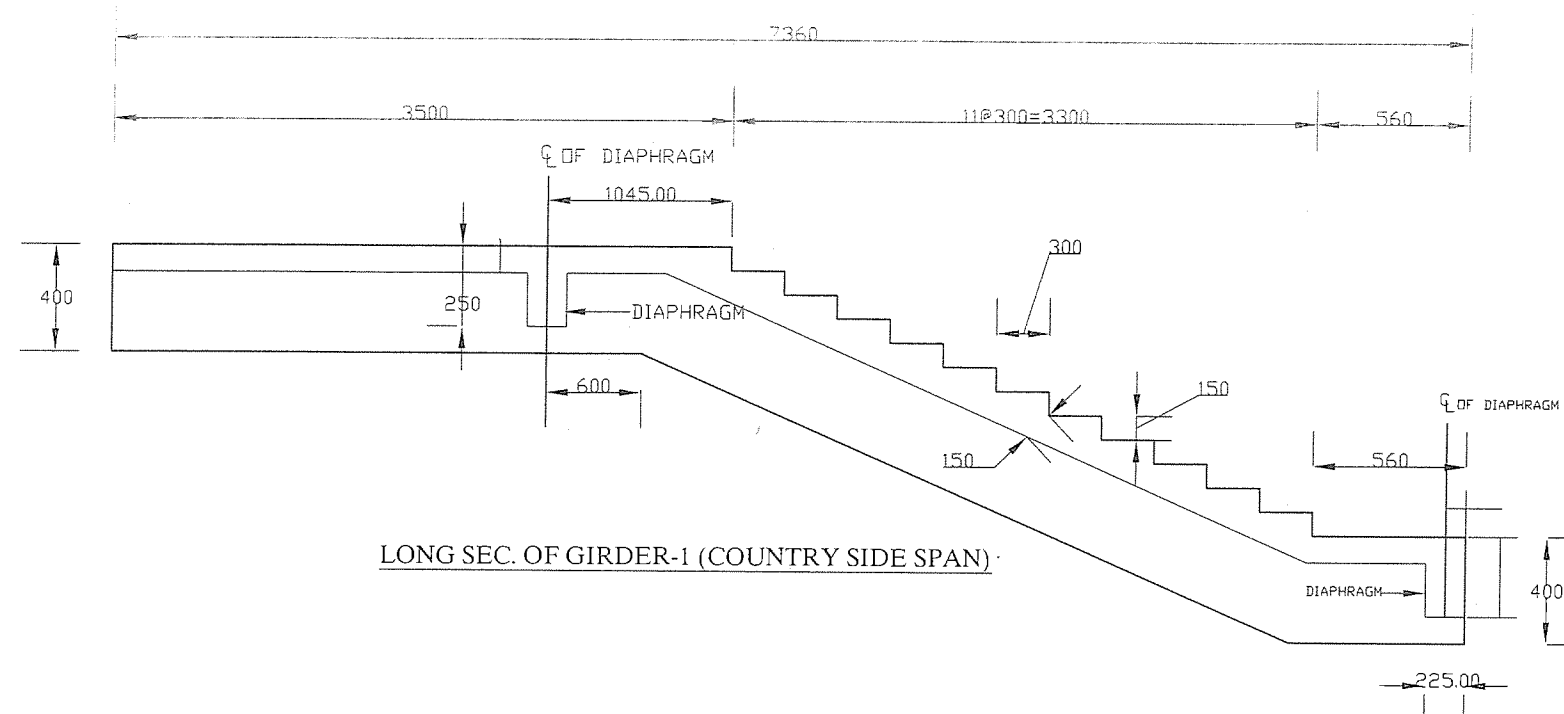
LEGEND :

S3-Y12-200 :
 S3 : BAR MARK
 Y12 : DIA OF DEFORMED BAR
 200 : SPACING OF BAR IN MM

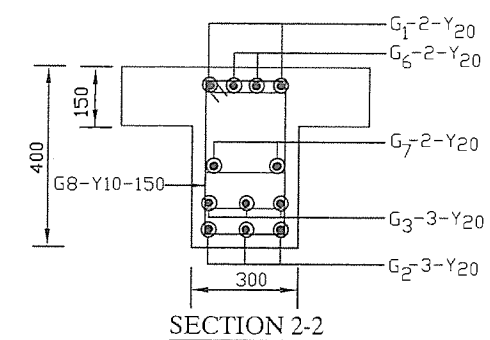
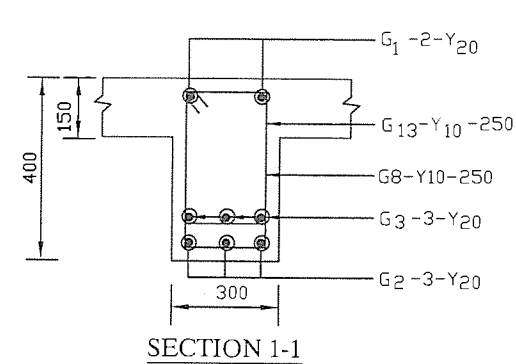
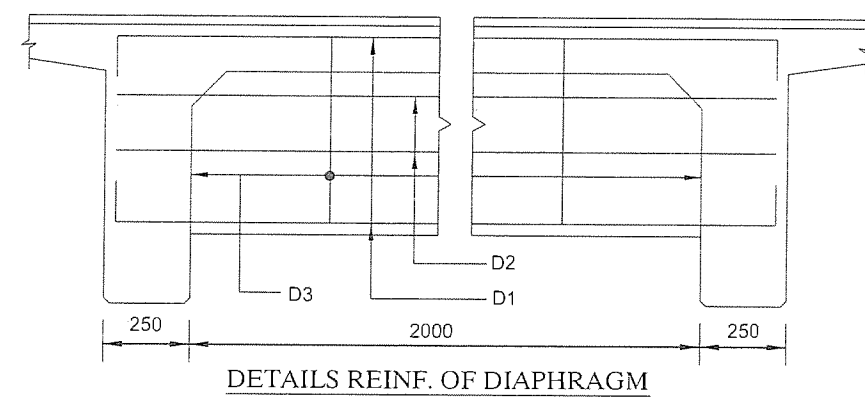
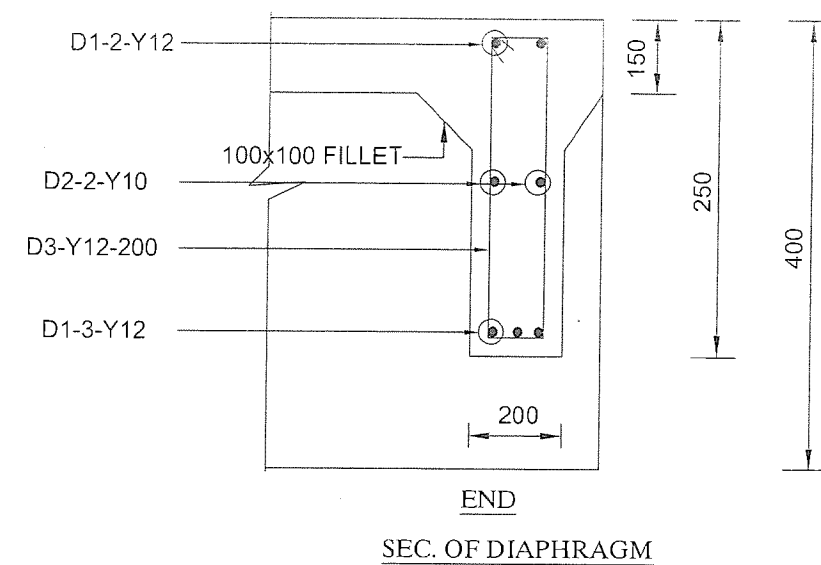
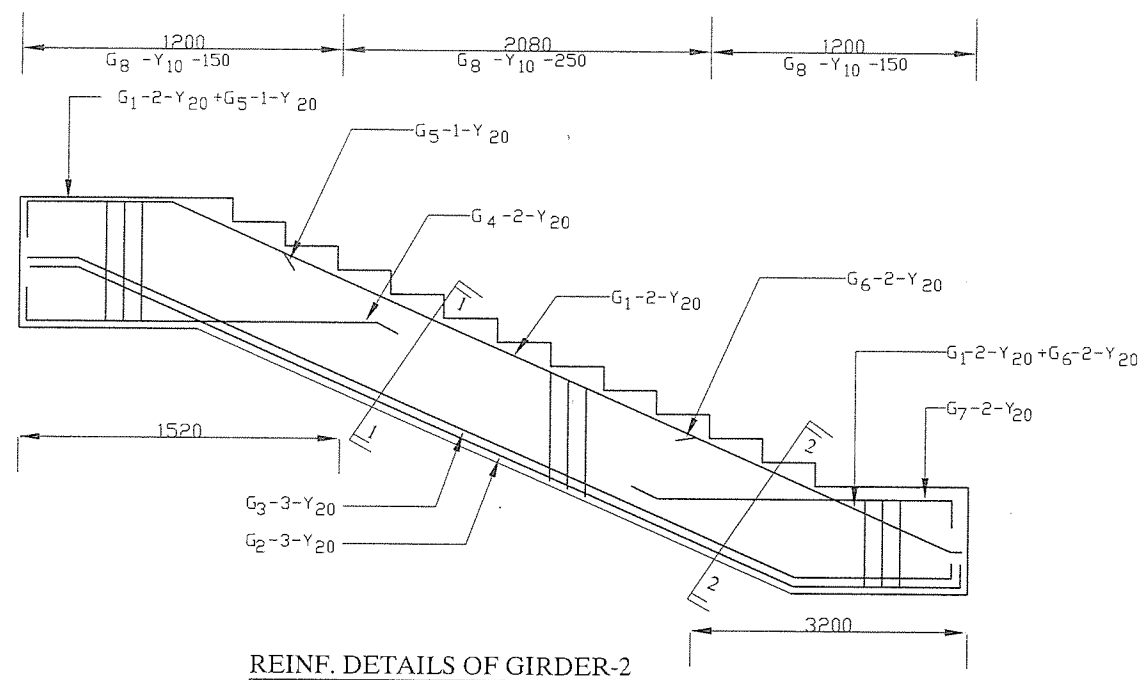
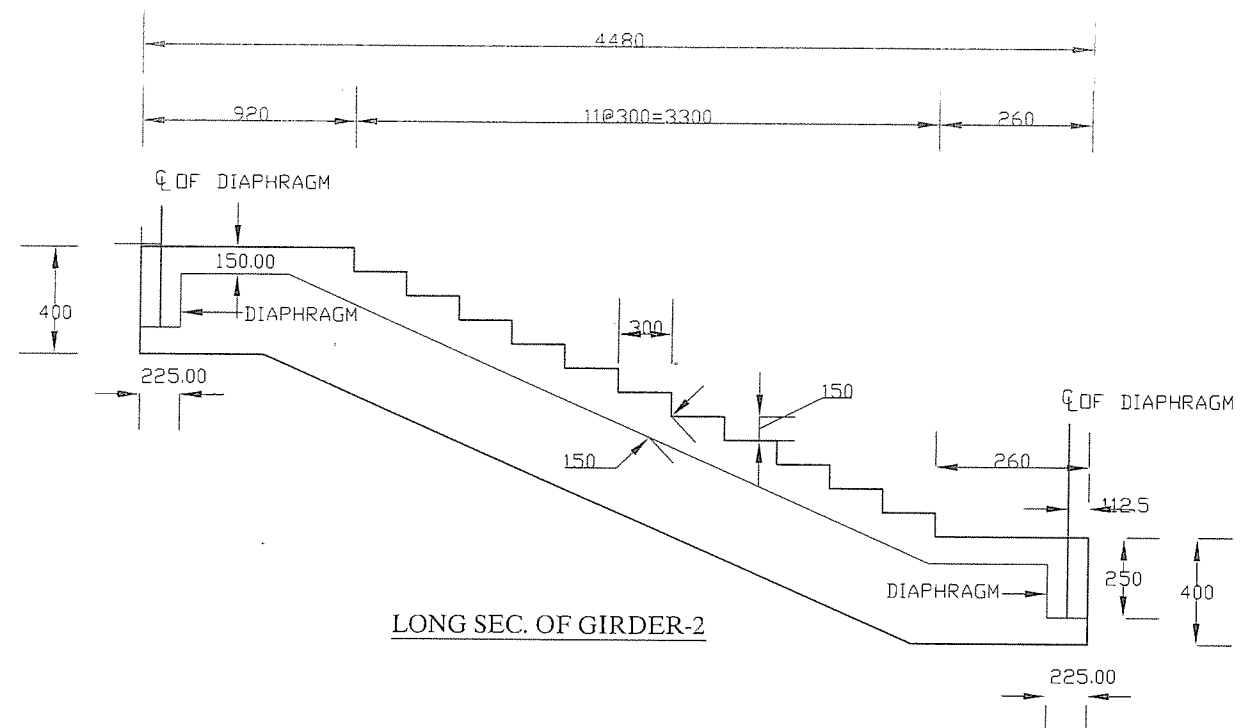
S6-4-Y12 :
 S6 : BAR MARK
 4 : NOS OF BAR
 Y12 : DIA OF DEFORMED BAR

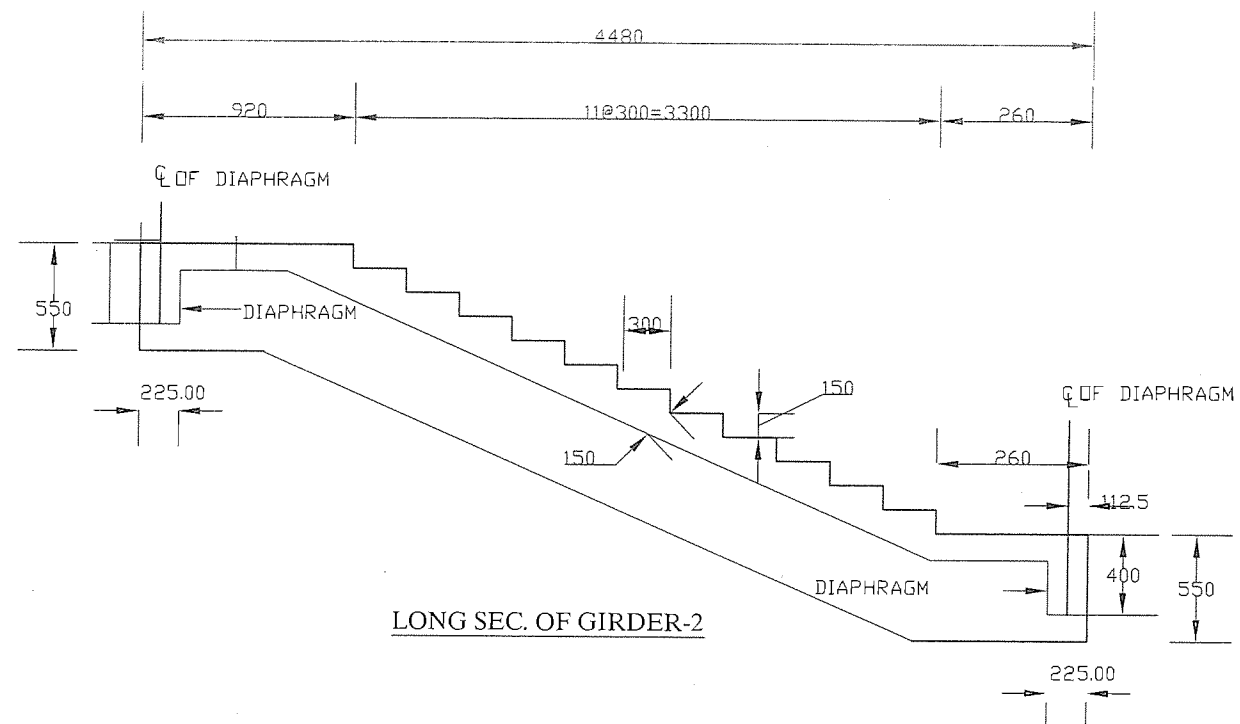
REV.	DESCRIPTION	DATE

ROADS AND HIGHWAYS DEPARTMENT (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			REINF. DETAILS OF DECK SECTION FOR RCC JETTY (REVISED)	Scale : As above	sept' 2013	BRDG/DECK/DWG-05

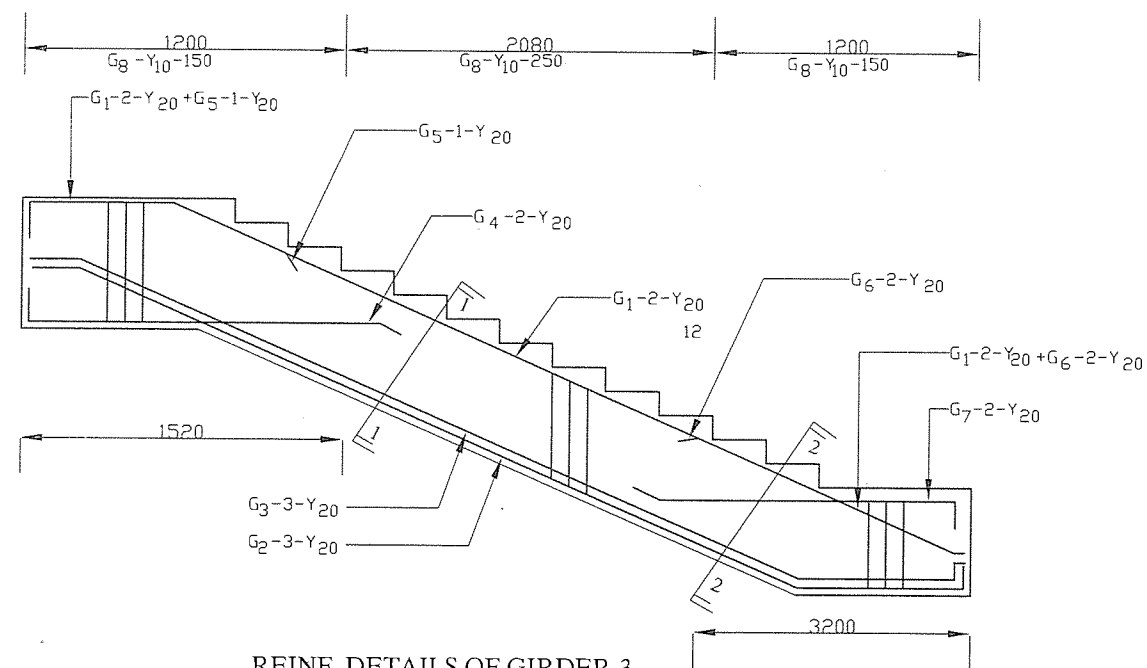


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SCALE :	DATE :	DRAWING NO.
Scale : As above	02 July' 2013	BRDG/G1/DWG-06

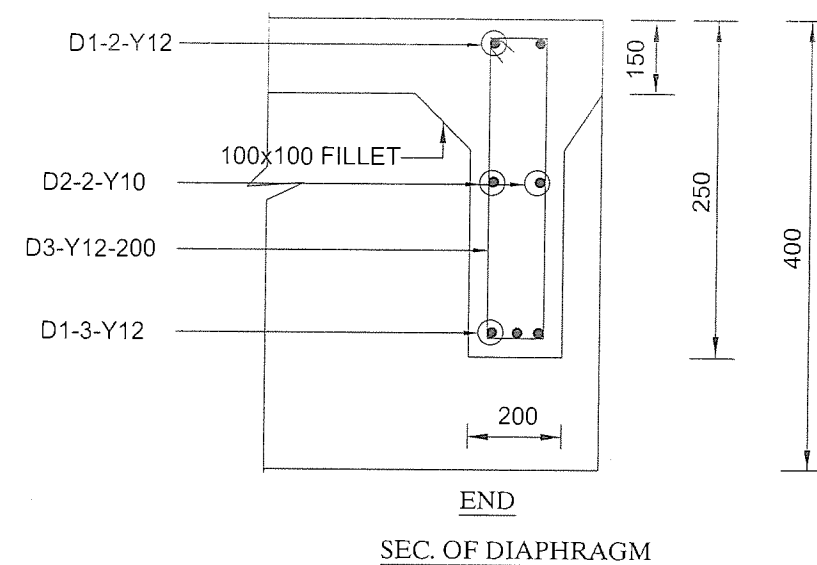
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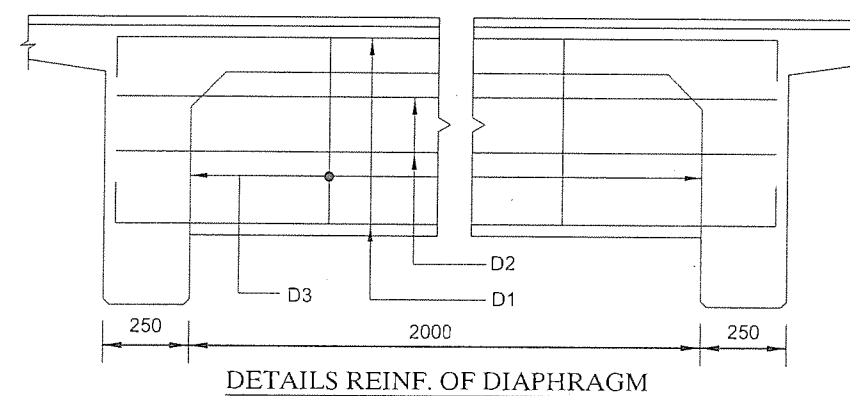
LONG SEC. OF GIRDER-2



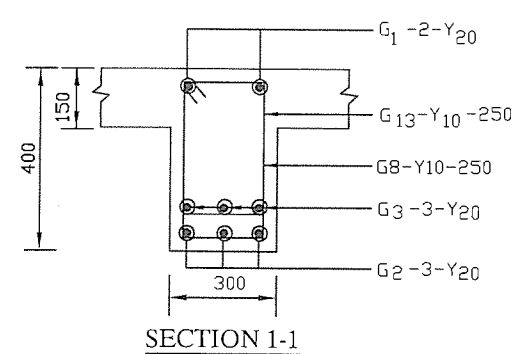
REINF. DETAILS OF GIRDER-3



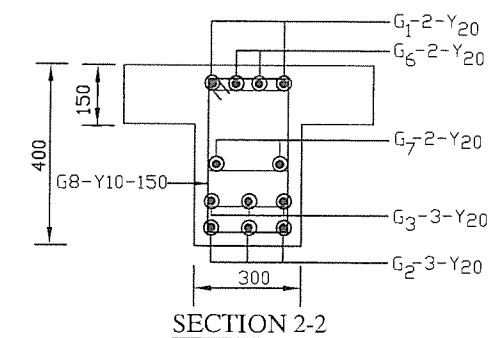
SEC. OF DIAPHRAGM



DETAILS REINF. OF DIAPHRAGM

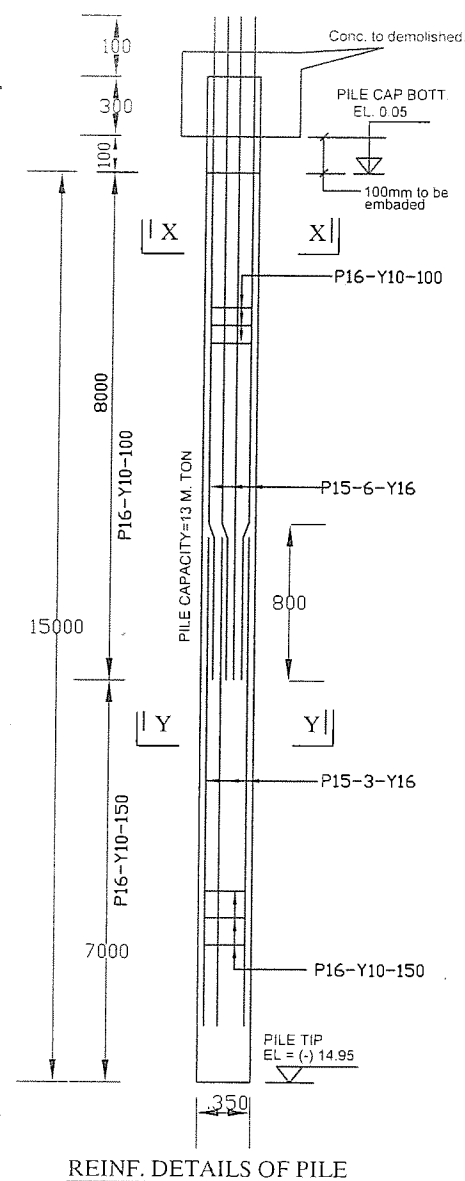
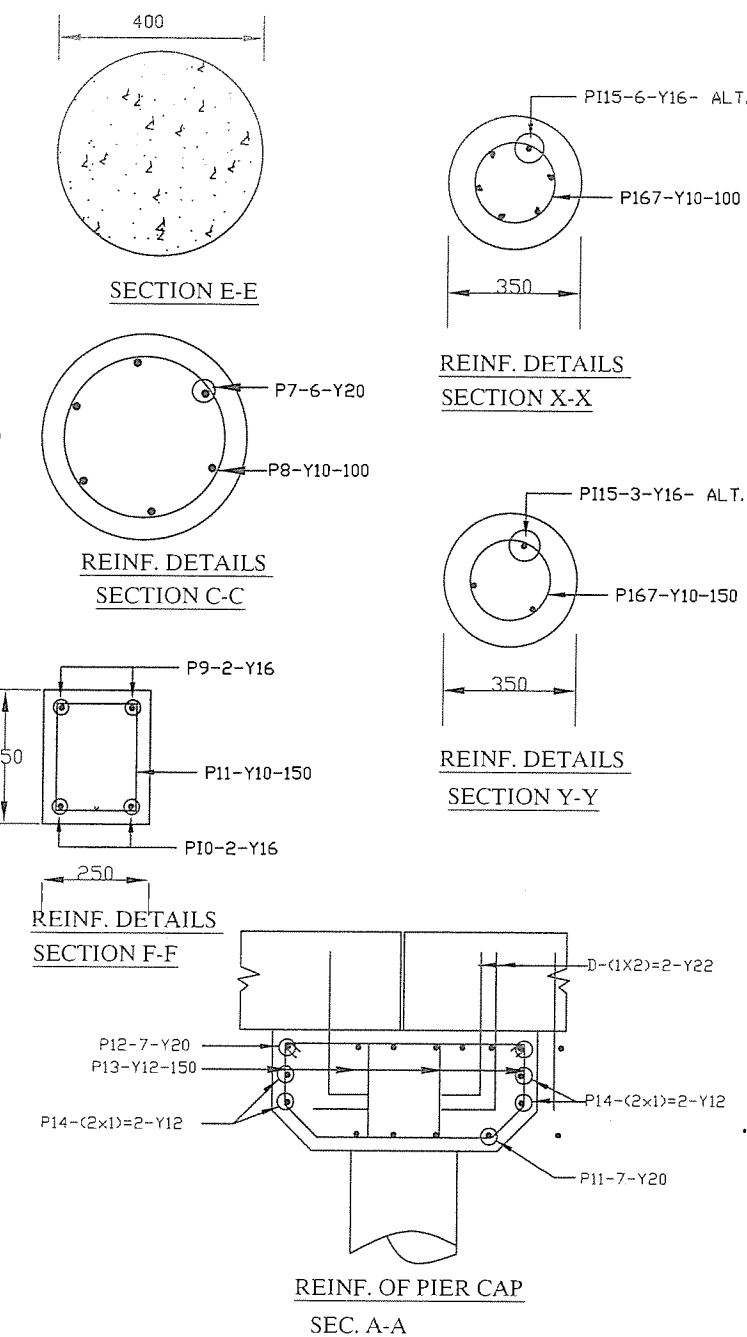
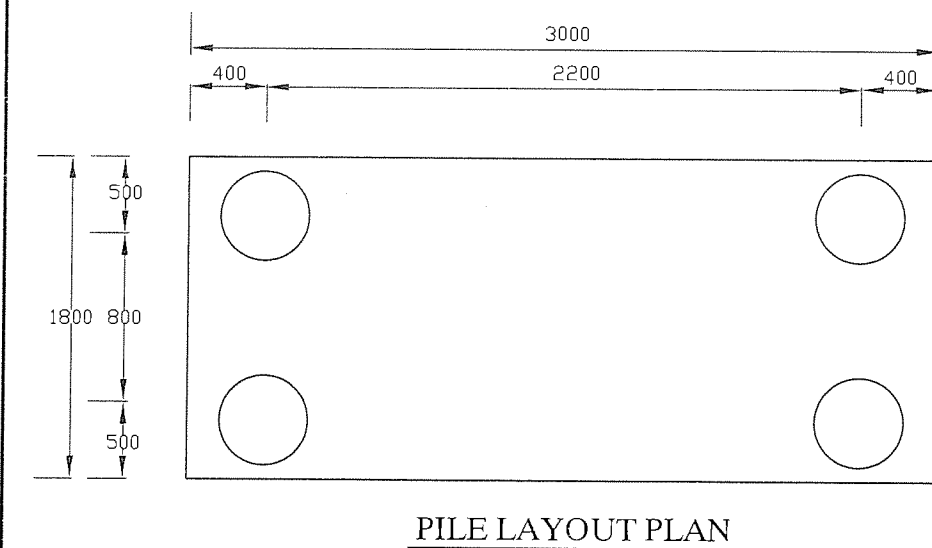


SECTION 1-1



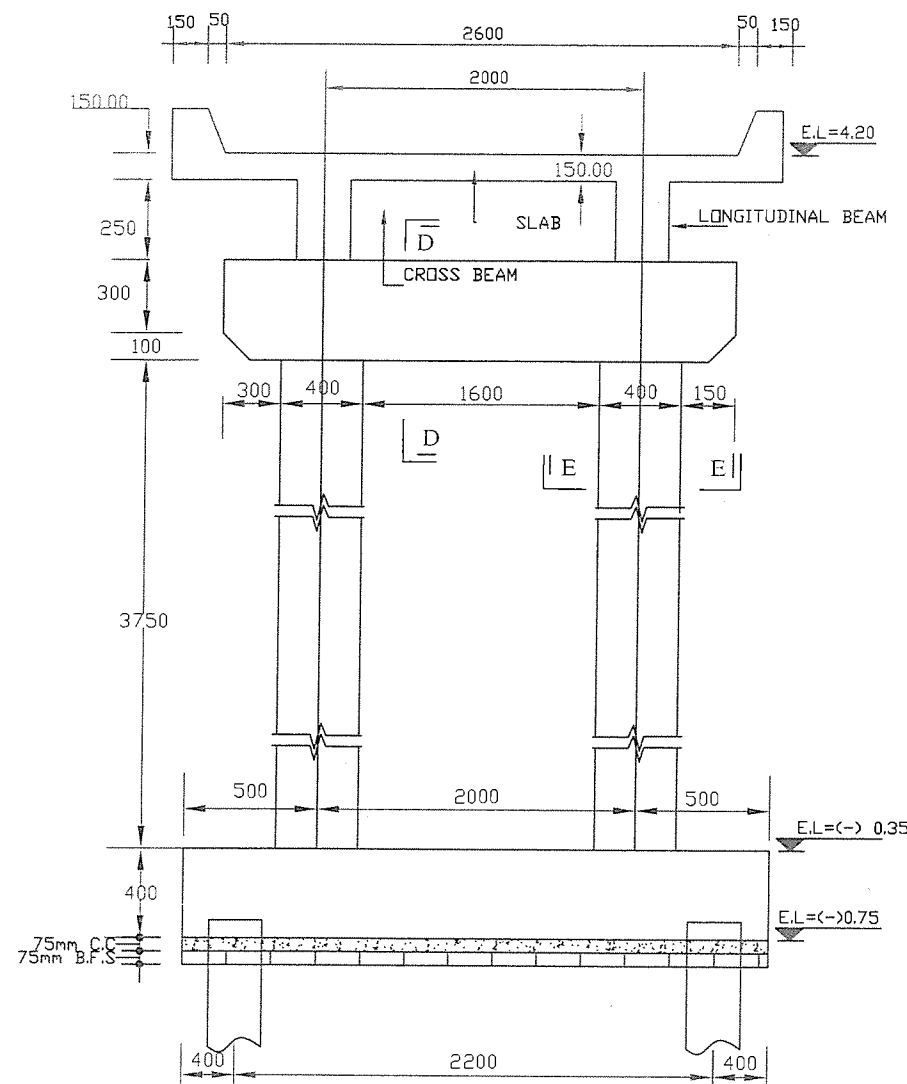
SECTION 2-2

ROADS AND HIGHWAYS DEPARTMENT (RHD)	NAME OF THE PROJECT :	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
Ministry of Communications	Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).		DETAILS OF GIRDER G3 (3RD SPAN) (REVISED)	Scale : As above	02 July' 2013	BRDG/G1/DWG-08

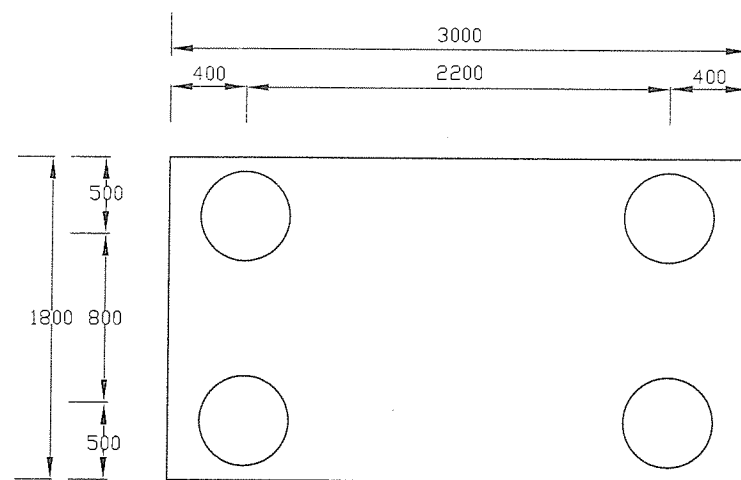


NOTE :
During construction work soil test to be conducted in order to verify the pile load capacity.

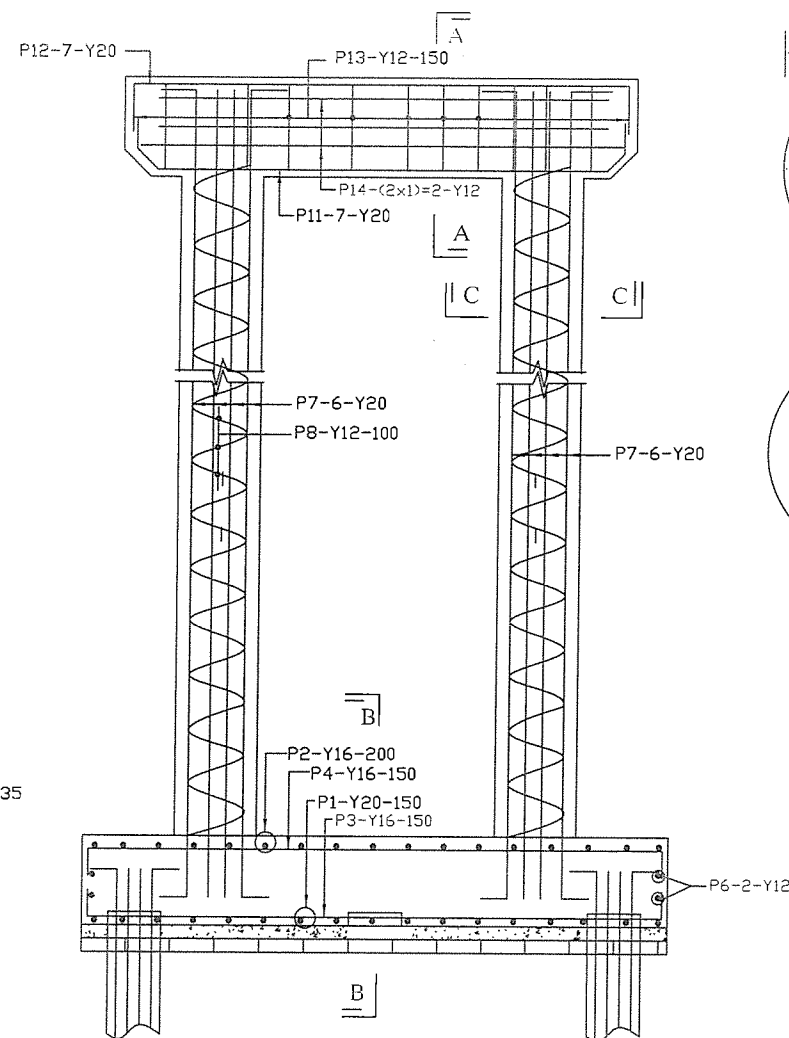
PILE LAYOUT PLAN			SEC. D-D	SEC. -B B			
ROADS AND HIGHWAYS DEPARTMENT (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)					
			REV.	DESCRIPTION	DATE		
			DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.	
			CONCRETE OUTLINE & REINFORCEMENT DETAILS OF PIER - P1	Scale : As above	Sept' 2013	BRDG/P1/DWG-09	



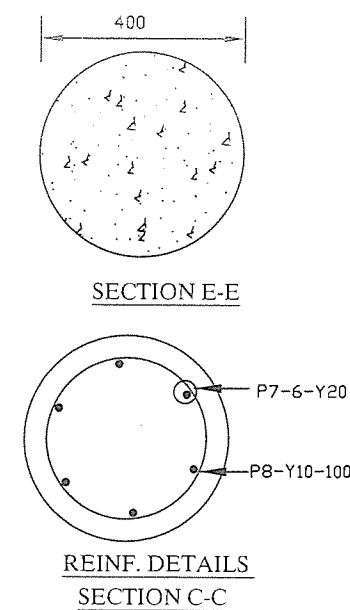
CONCRETE OUTLINE DETAILS OF PIER ELEV.



PILE LAYOUT PLAN

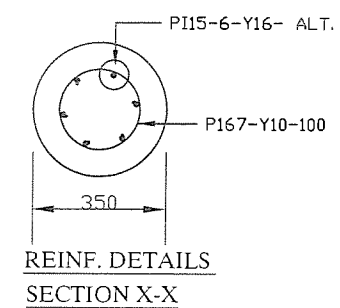


REINF. DETAILS
(LONGITUDINAL ELEVATION)

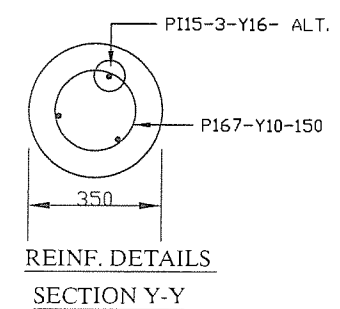


SECTION E-E

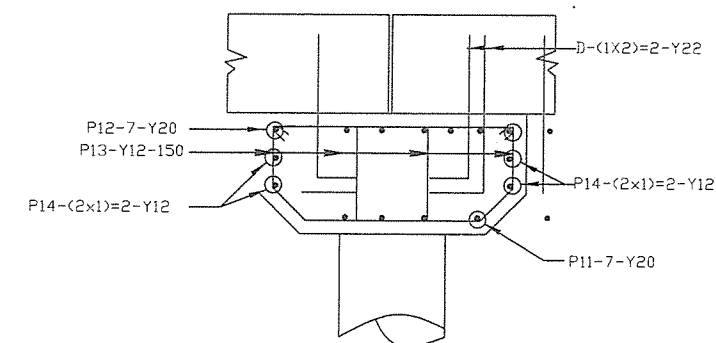
REINF. DETAILS
SECTION C-C



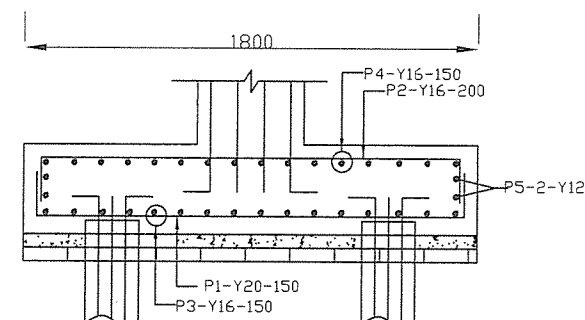
REINF. DETAILS
SECTION X-X



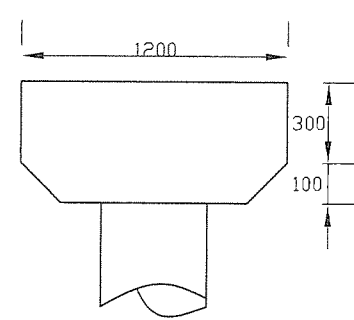
REINF. DETAILS
SECTION Y-Y



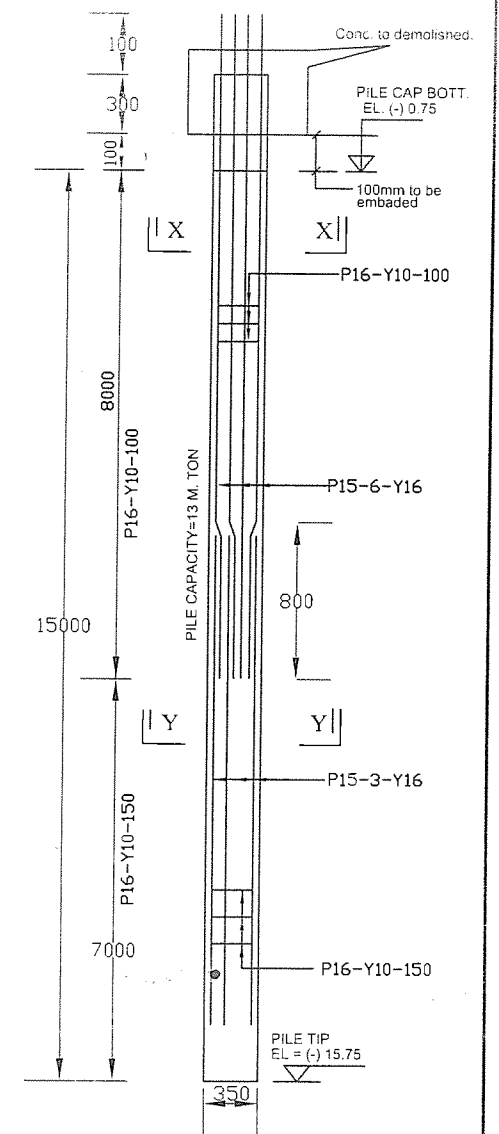
REINF. OF PIER CAP
SEC. A-A



SEC. -B B



SEC. D-D



REINF. DETAILS OF PILE

NOTE:
During construction work soil test to be conducted in order to verify the pile load capacity.

ROADS AND HIGHWAYS DEPARTMENT (RHD)
Ministry of Communications

NAME OF THE PROJECT :
Preparatory Survey on Chittagong Area Coal Fired
Power Plant Development Project in Bangladesh
(JICA Study).

JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

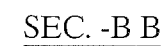
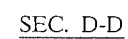
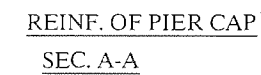
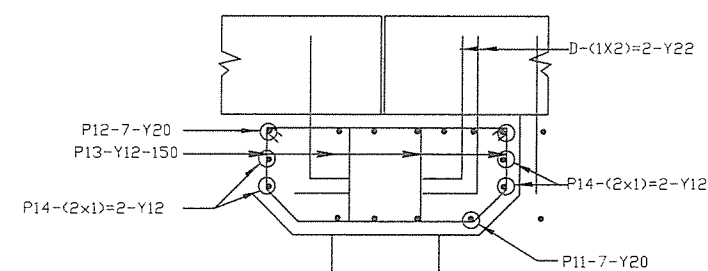
DRAWING TITLE :
CONCRETE OUTLINE & REINFORCEMENT DETAILS
OF PIER - P2 (REVISED)

REV.	DESCRIPTION	DATE

SCALE :
Scale : As above

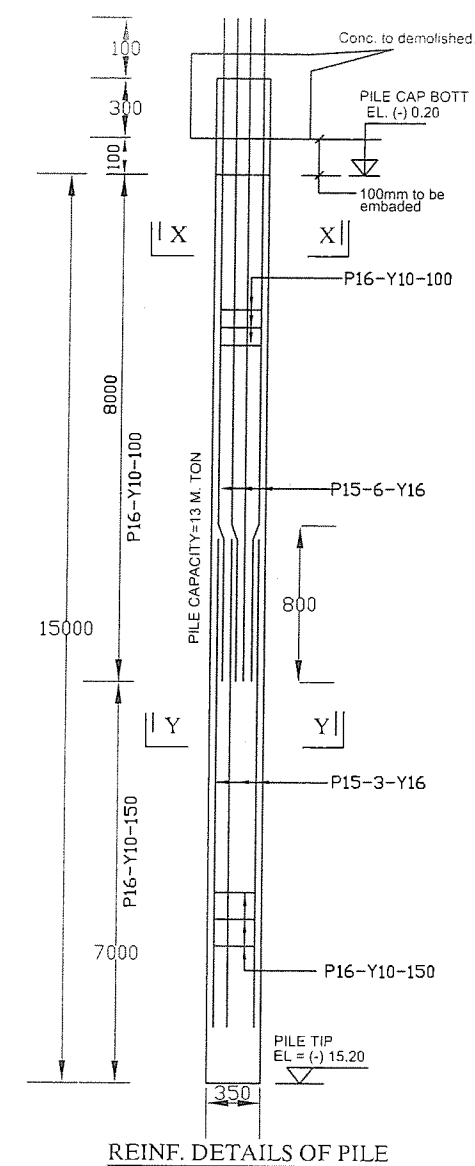
DATE :
Sept' 2013

DRAWING NO.
BRDG/P2/DWG-10

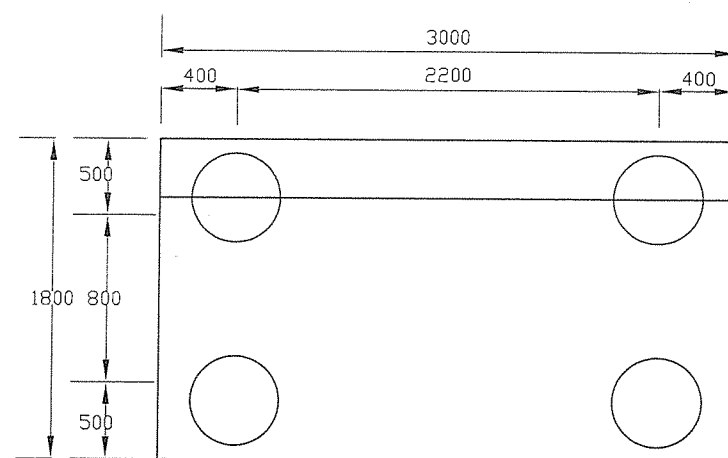


During construction work soil test to be conducted in order to verify the pile load capacity.

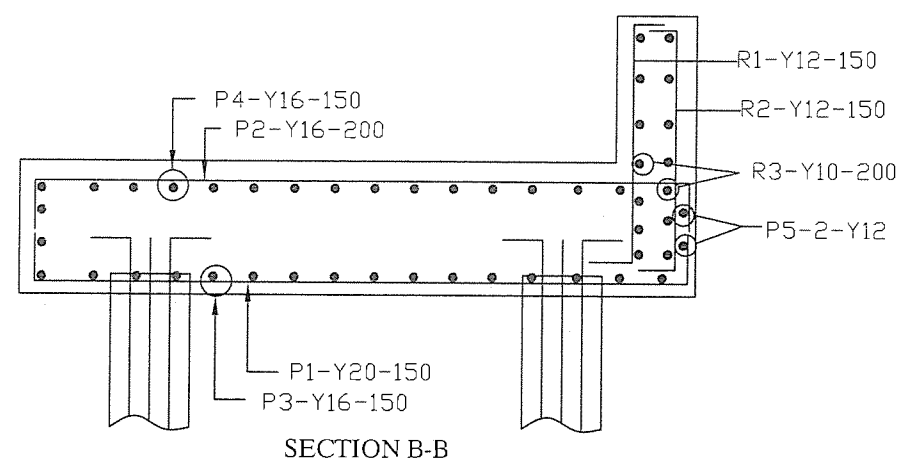
ROADS AND HIGHWAYS DEPARTMENT (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on Chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			CONCRETE OUTLINE & REINFORCEMENT DETAILS OF PIER - P3 (REVISED)	Scale : As above	Sept' 2013	BRDG/P3/DWG-11



NOTE :
During construction work soil test to be conducted in order to verify the pile load capacity.



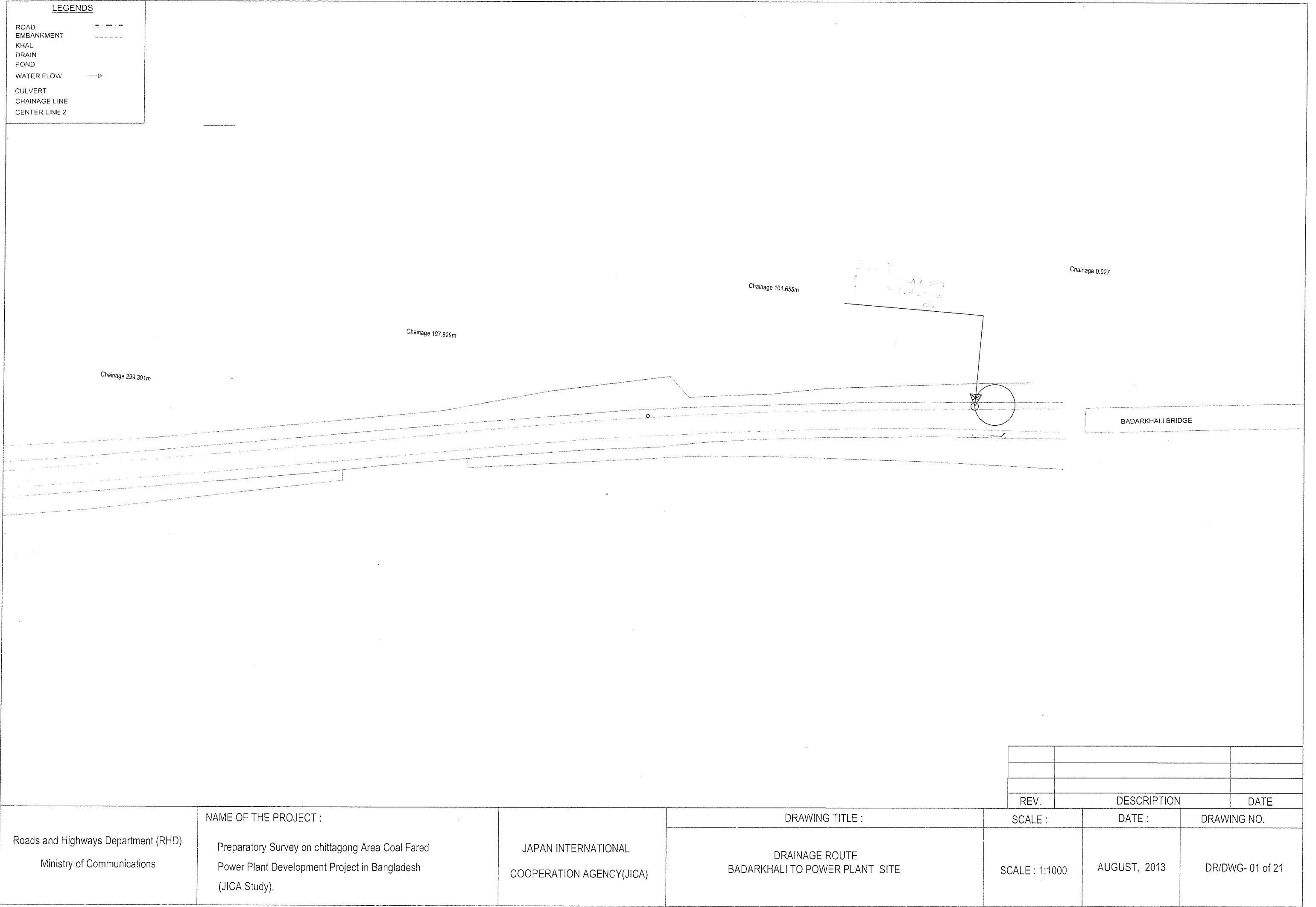
PILE LAYOUT PLAN



SECTION B-B

[illegible]

DRAINAGE ROUTE MAP



LEGENDS

- ROAD
- EMBANKMENT
- KHAL
- DRAIN
- POND
- WATER FLOW
- CULVERT
- CHAINAGE LINE
- CENTER LINE 2

Chainage 0.027

Chainage 101.655m

Chainage 197.929m

Chainage 299.301m

BADARKHALI BRIDGE

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD)
Ministry of Communications

NAME OF THE PROJECT :

Preparatory Survey on chittagong Area Coal Fared
Power Plant Development Project in Bangladesh
(JICA Study).

JAPAN INTERNATIONAL
COOPERATION AGENCY(JICA)

DRAWING TITLE :

DRAINAGE ROUTE
BADARKHALI TO POWER PLANT SITE

SCALE :

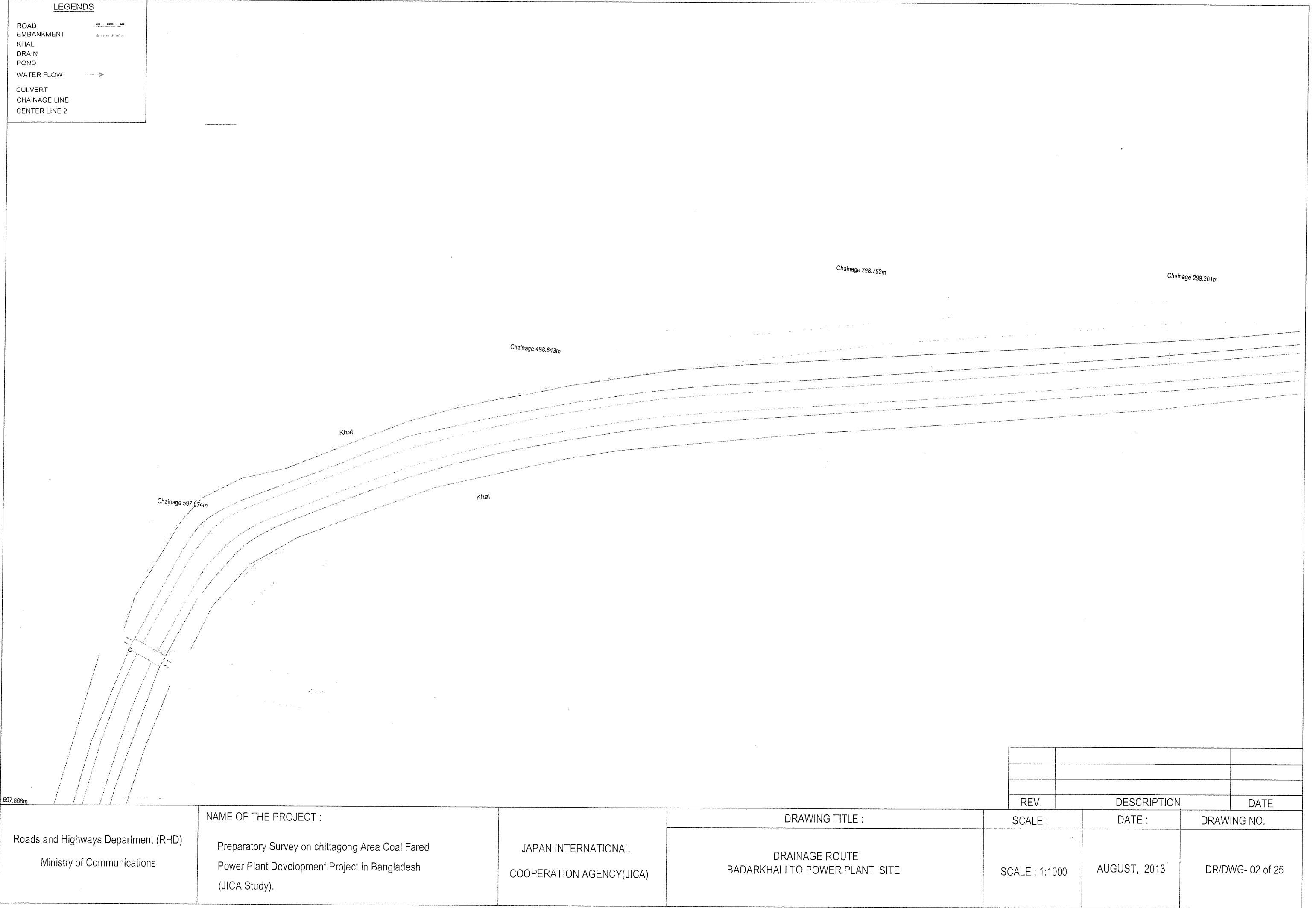
SCALE : 1:1000

DATE :

AUGUST, 2013

DRAWING NO.

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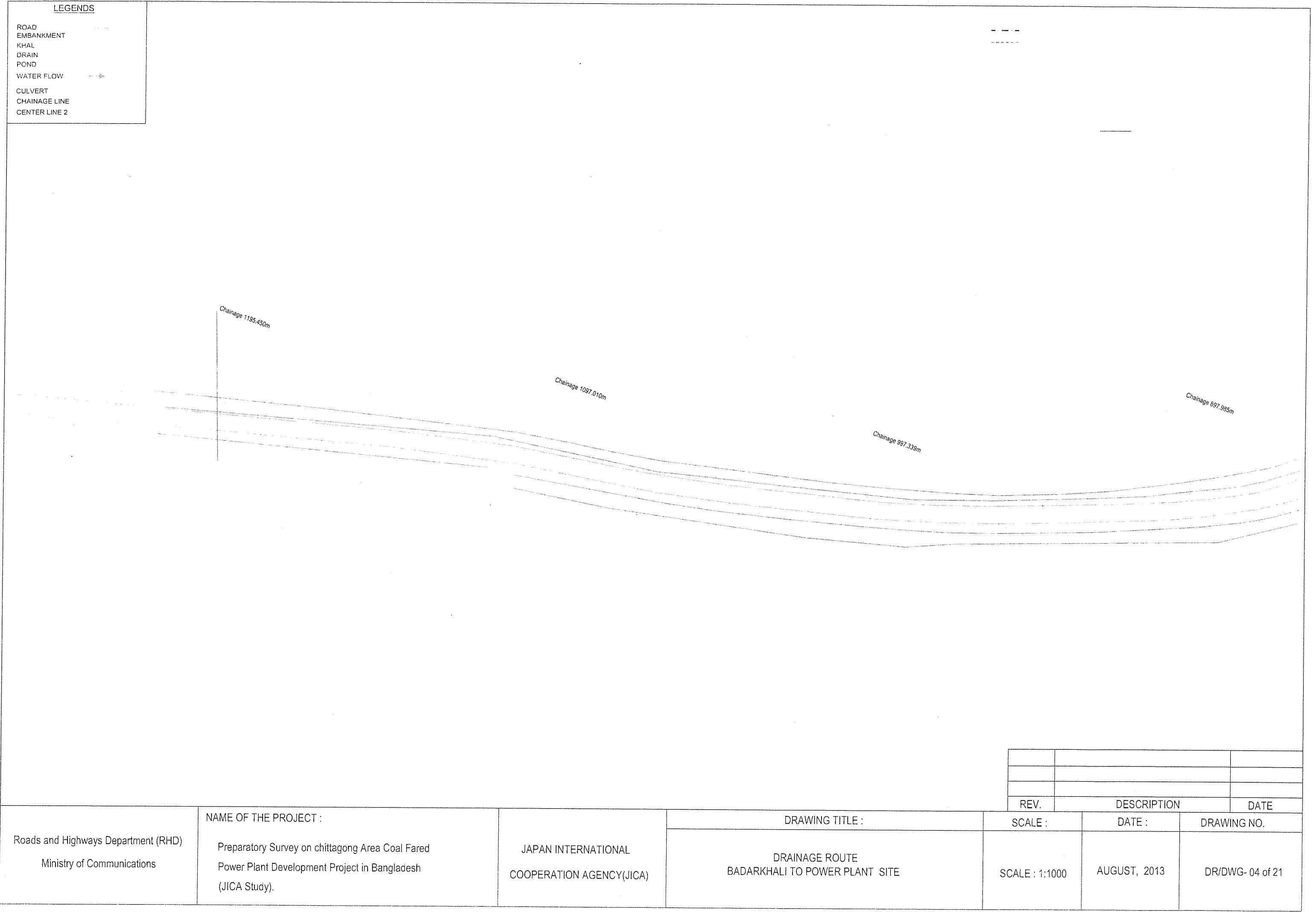
LEGENDS

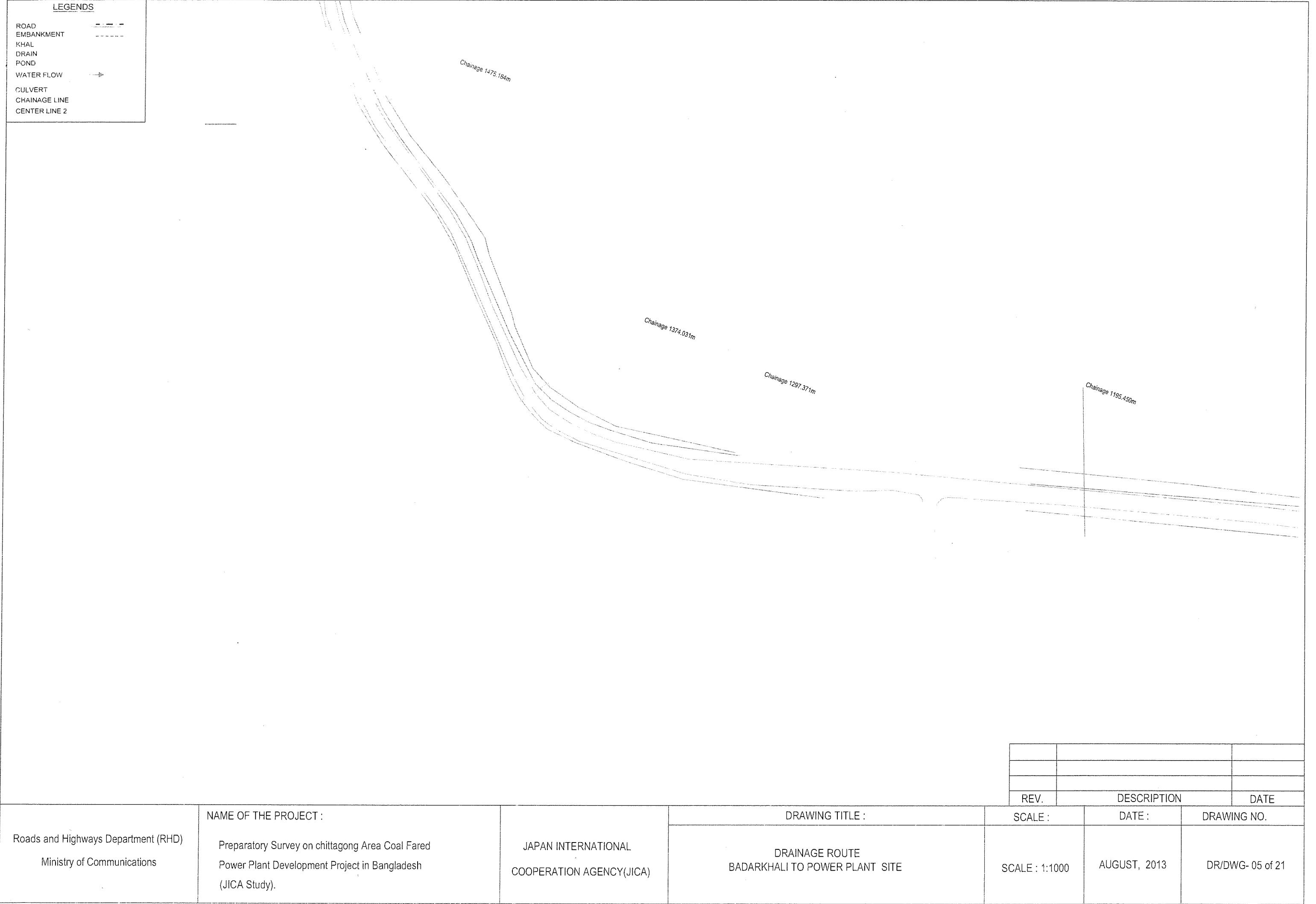
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EMBANKMENT
KHAL
DRAIN
POND
WATER FLOW
CULVERT
CHAINAGE LINE
CENTER LINE 2

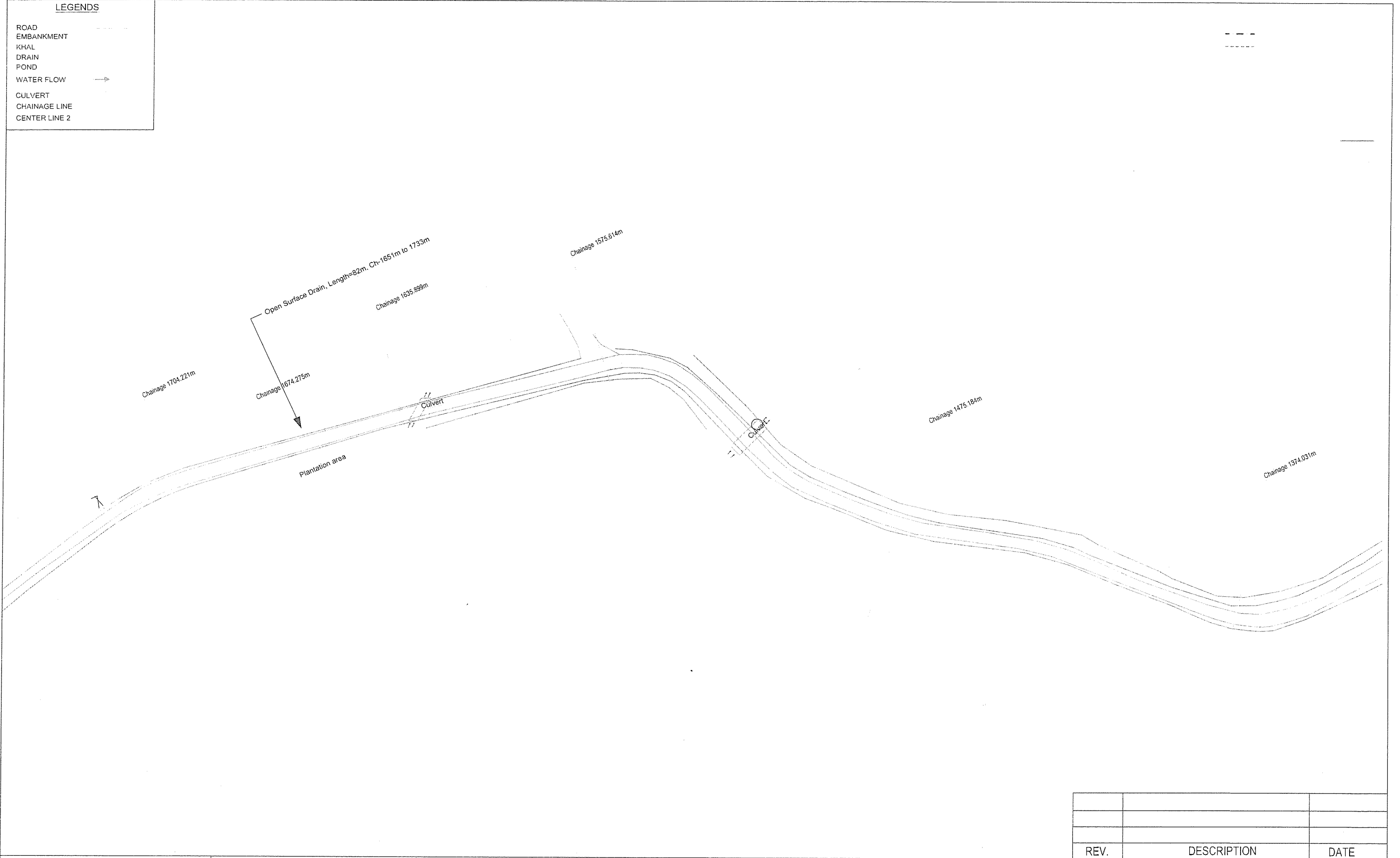
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POND
WATER FLOW
CULVERT
CHAINAGE LINE
CENTER LINE 2

REV.	DESCRIPTION	DATE

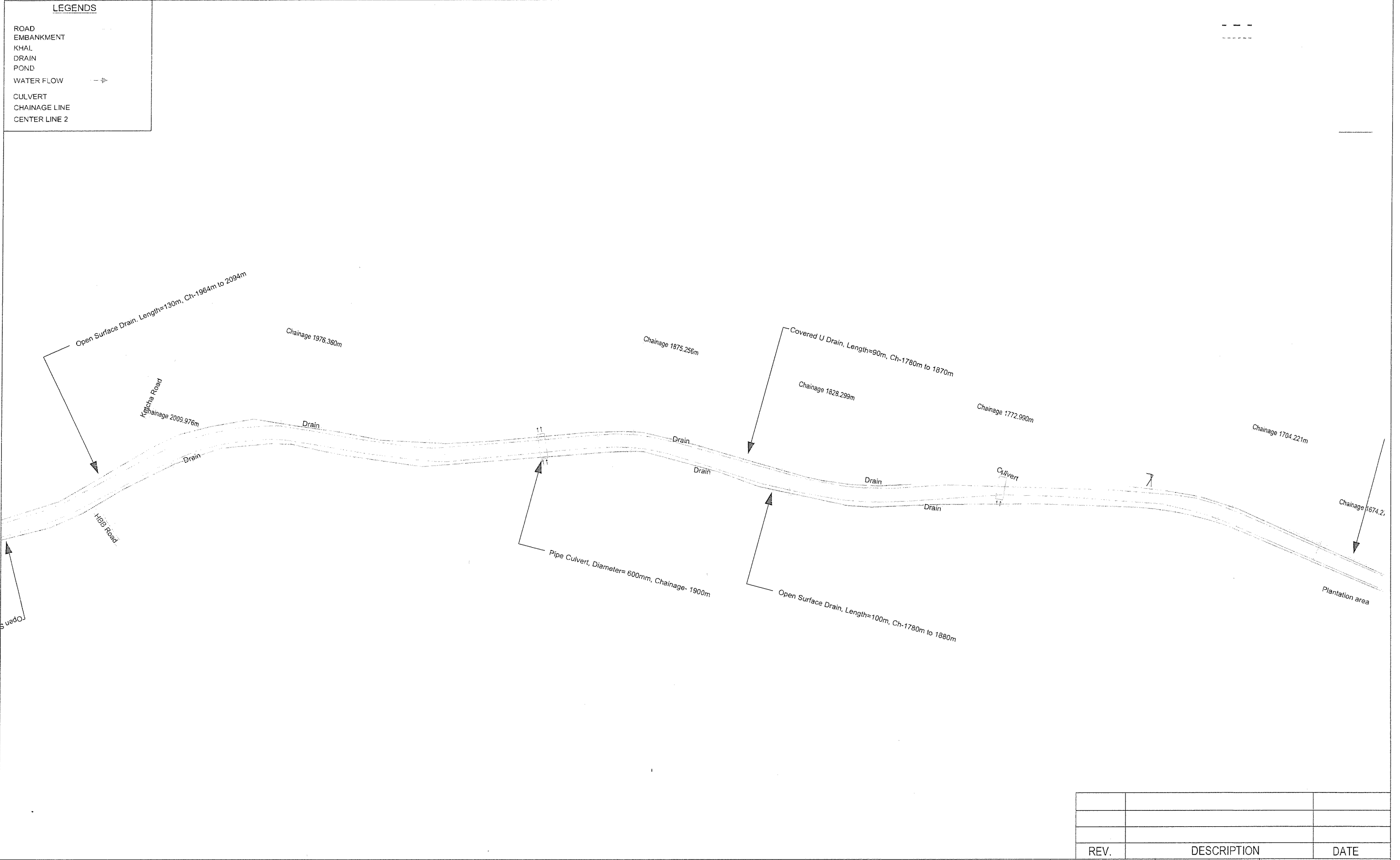
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	REV.	DESCRIPTION	DATE
			DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE	SCALE :	DATE :	DRAWING NO.
				SCALE : 1:1000	AUGUST, 2013	DR/DWG- 03 of 21



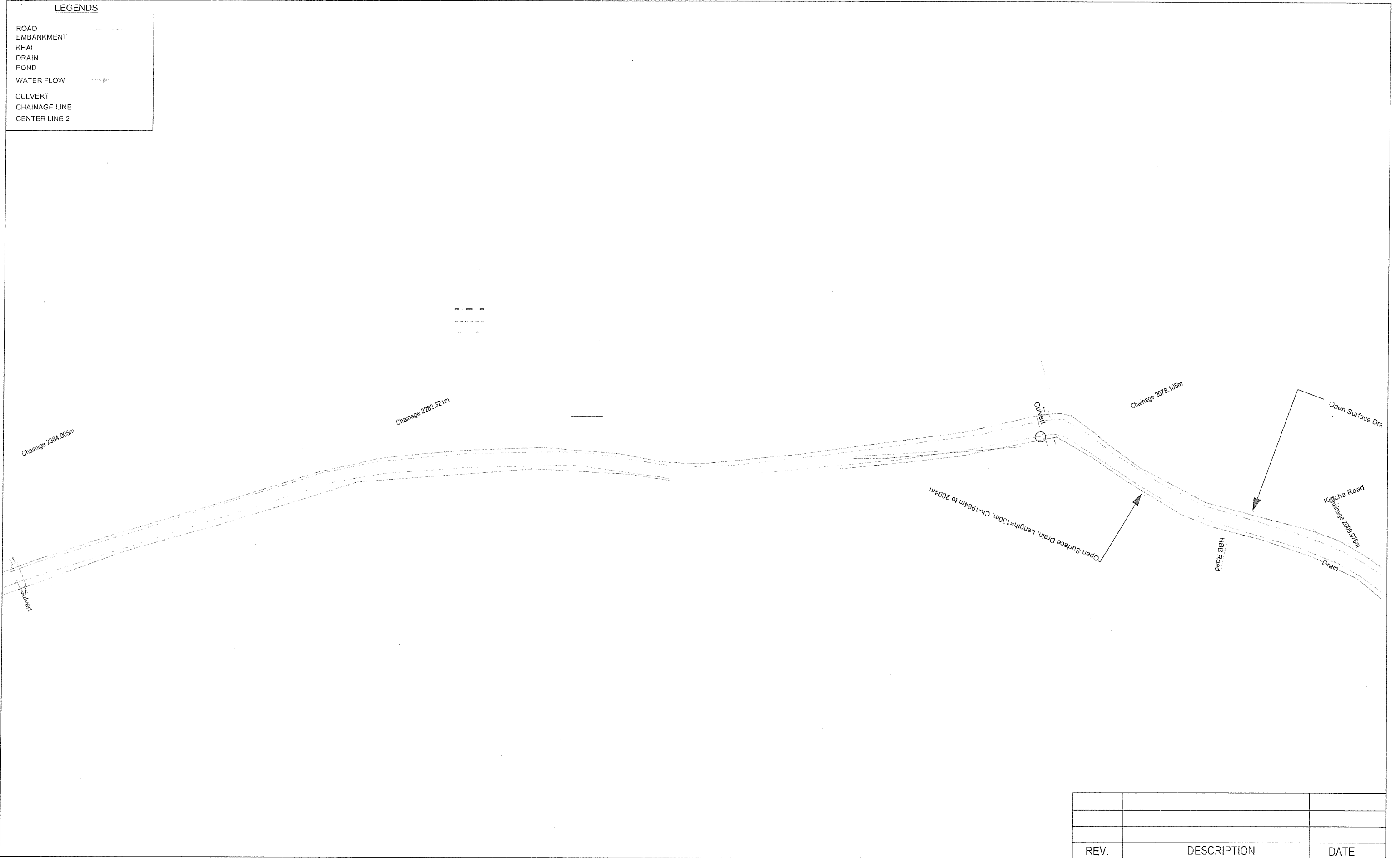




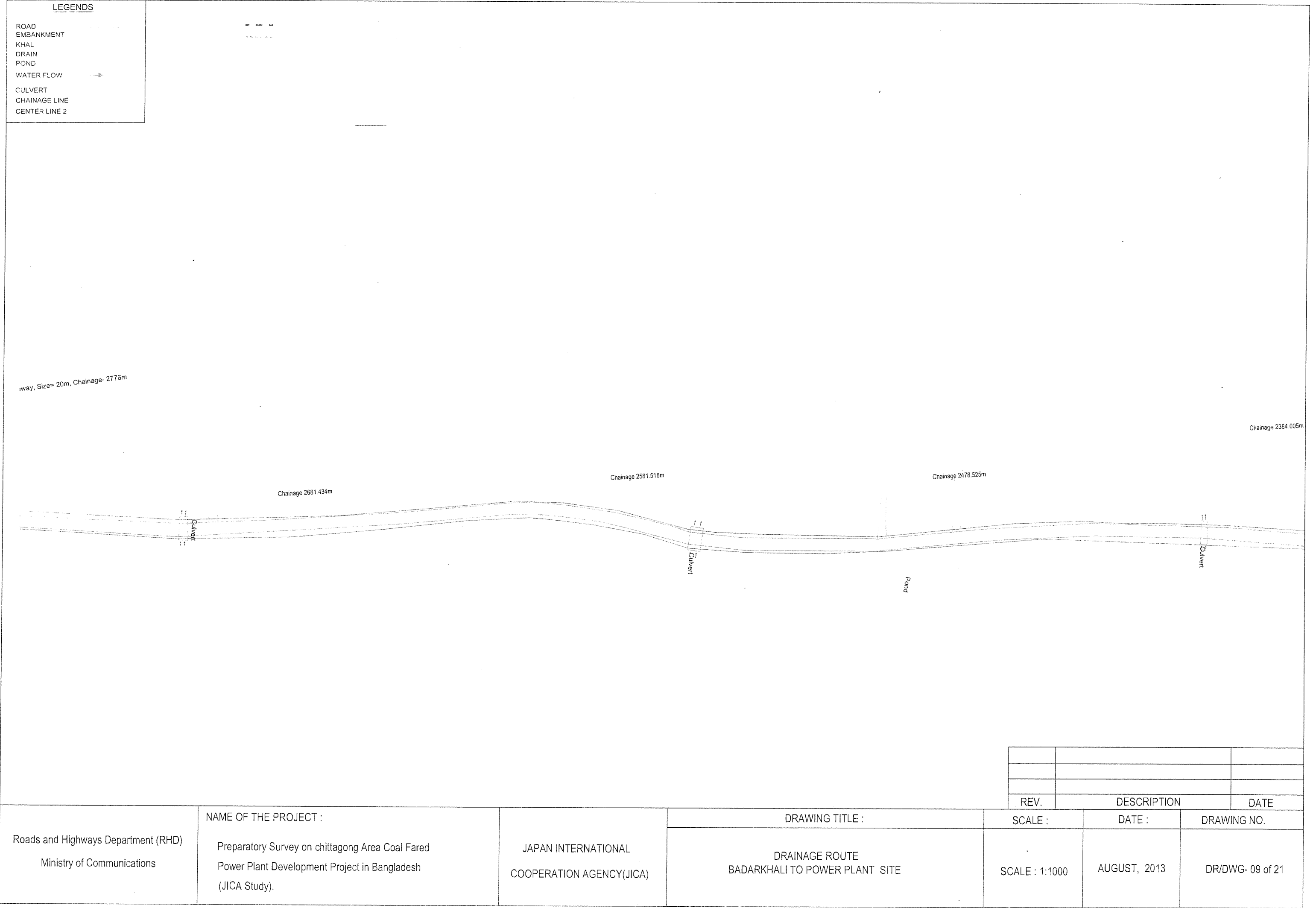
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			DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE	SCALE : 1:1000	AUGUST, 2013	DR/DWG- 06 of 21



Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE	SCALE : 1:1000	AUGUST, 2013	DR/DWG- 07 of 21



Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE	SCALE : 1:1000	AUGUST, 2013	DR/DWG- 08 of 21



LEGENDS

- ROAD
- EMBANKMENT
- KHAL
- DRAIN
- POND
- WATER FLOW
- CULVERT
- CHAINAGE LINE
- CENTER LINE 2

way, Size= 20m, Chainage= 2776m

Chainage 2681.434m

Chainage 2581.518m

Chainage 2478.525m

Chainage 2384.005m

NAME OF THE PROJECT :

Roads and Highways Department (RHD)
Ministry of Communications

Preparatory Survey on chittagong Area Coal Fared
Power Plant Development Project in Bangladesh
(JICA Study).

JAPAN INTERNATIONAL
COOPERATION AGENCY(JICA)

DRAWING TITLE :

DRAINAGE ROUTE
BADARKHALI TO POWER PLANT SITE

REV.

DESCRIPTION

DATE

SCALE :

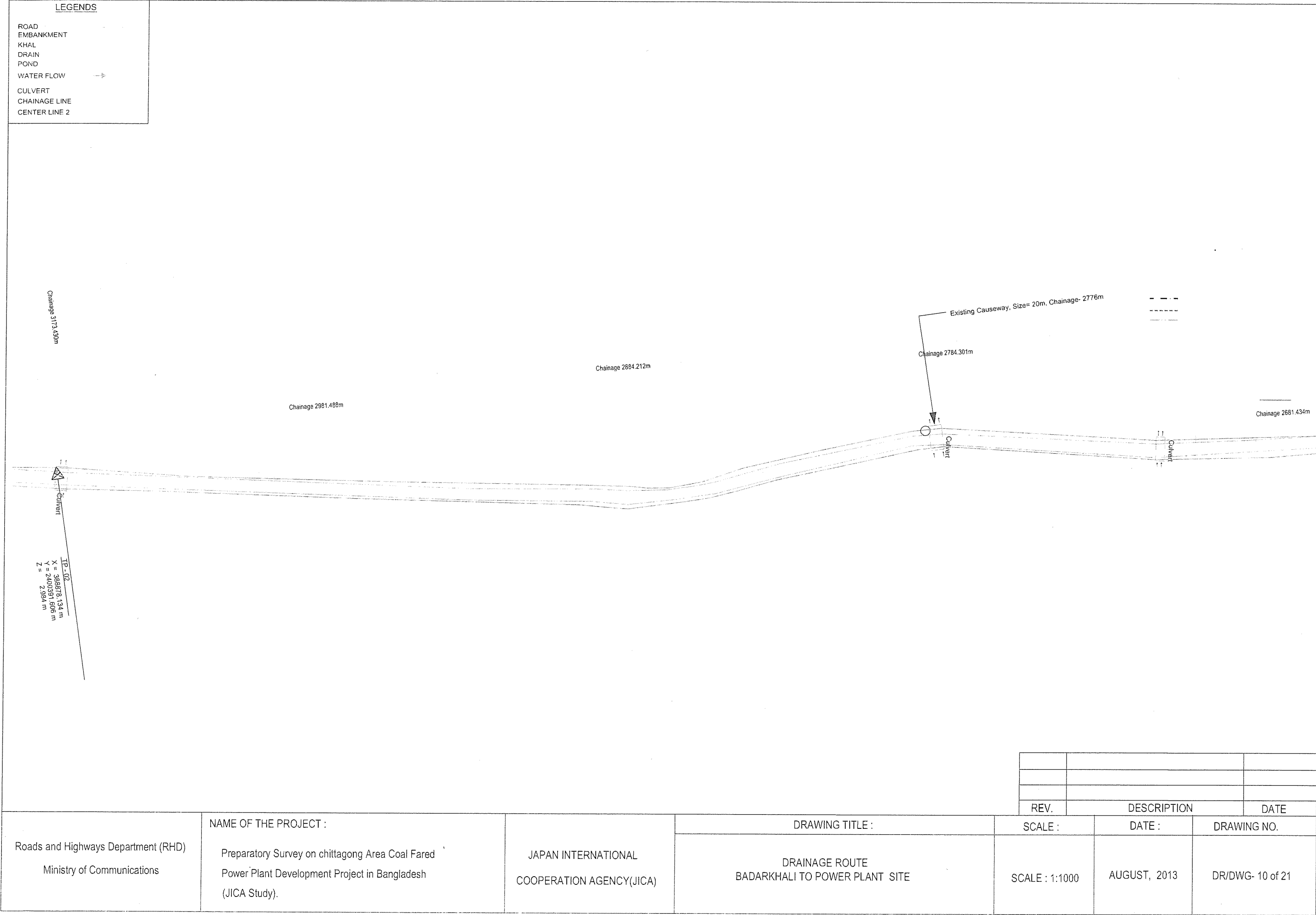
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AUGUST, 2013

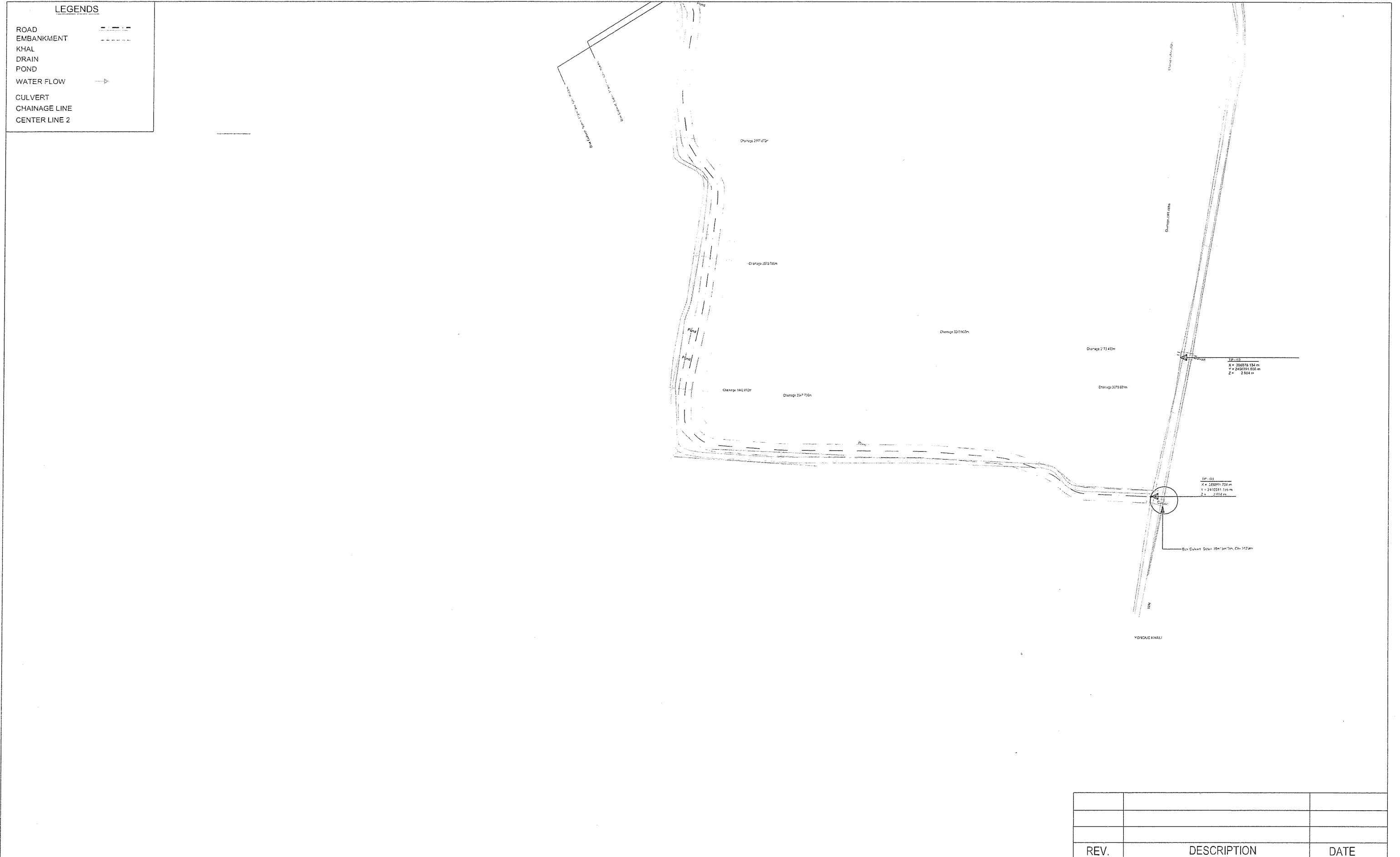
DR/DWG- 09 of 21



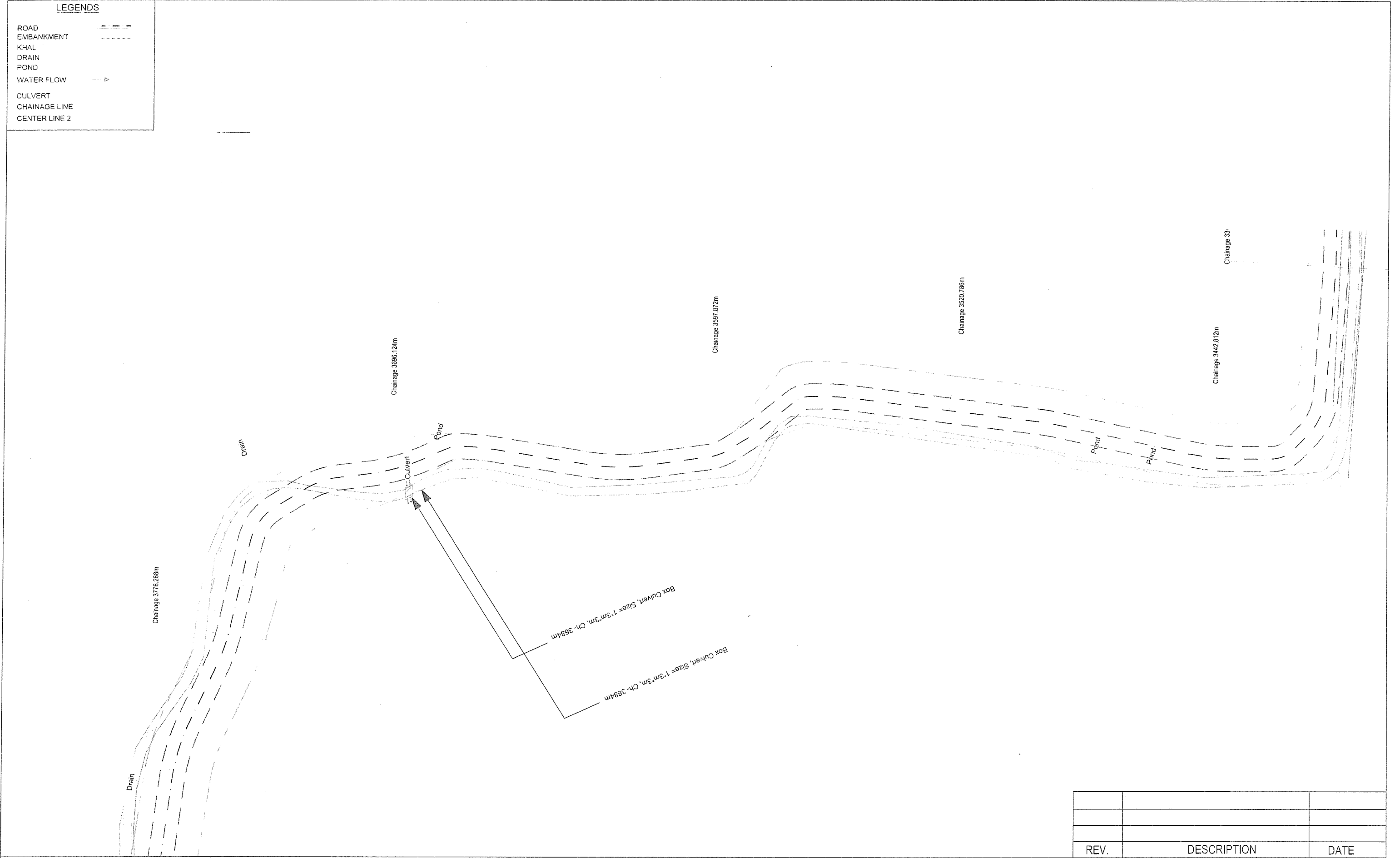


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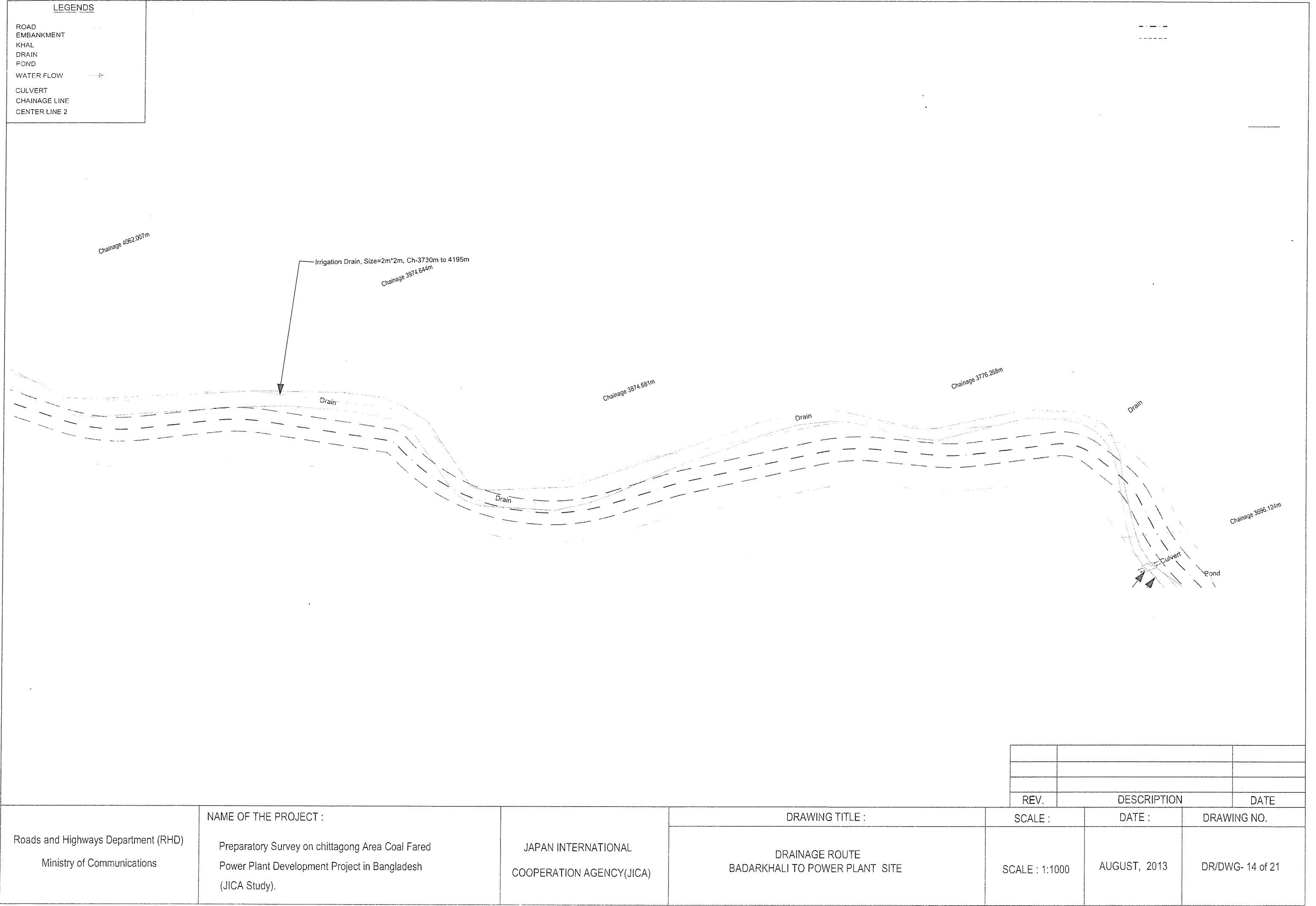
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE	SCALE : 1:1000	AUGUST, 2013	DR/DWG- 11 of 21

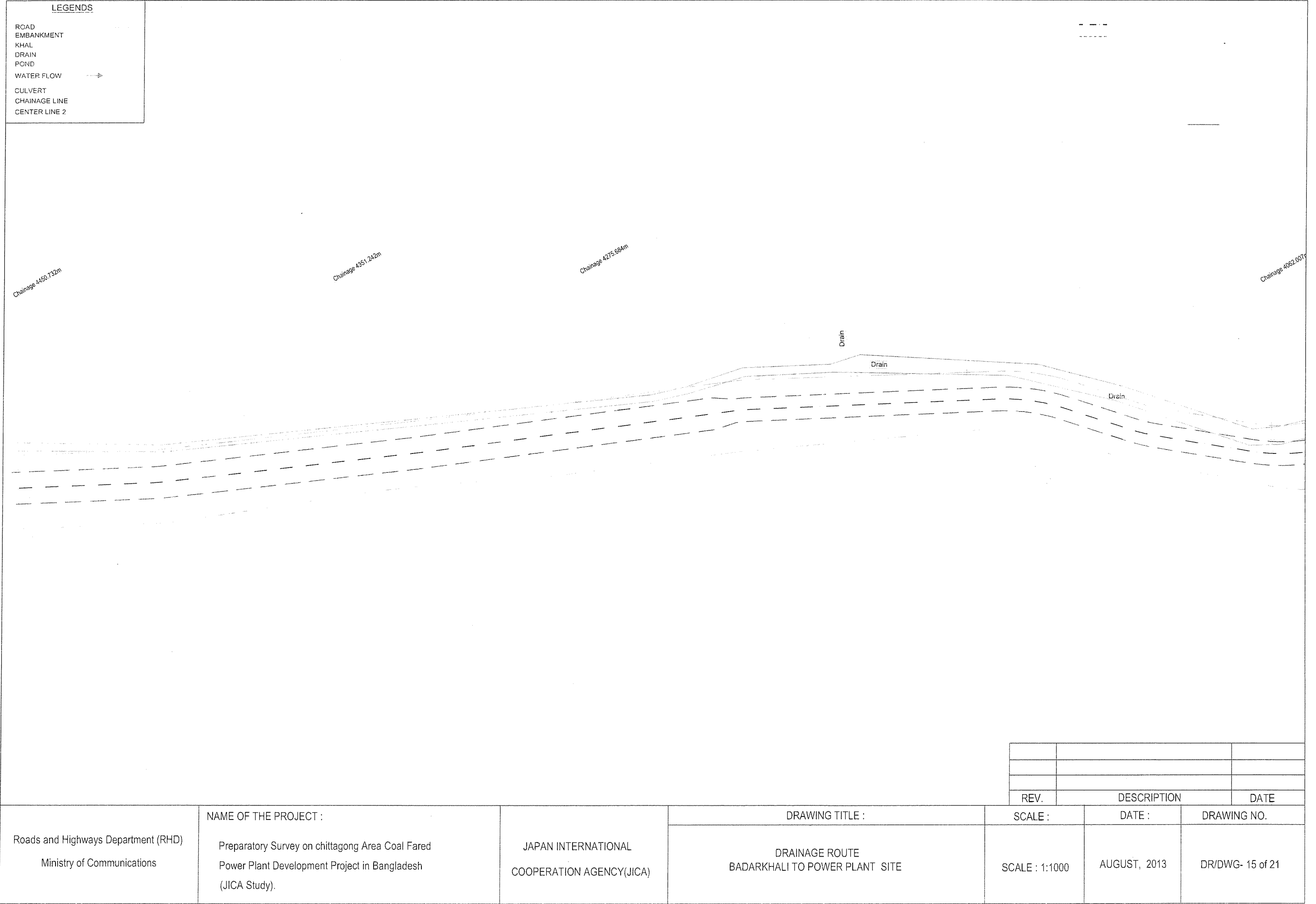


Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE	SCALE : 1:1000	AUGUST, 2013	DR/DWG- 12 of 21



Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE	SCALE : 1:1000	AUGUST, 2013	DR/DWG- 13 of 21





Roads and Highways Department (RHD)
Ministry of Communications

NAME OF THE PROJECT :
Preparatory Survey on chittagong Area Coal Fared
Power Plant Development Project in Bangladesh
(JICA Study).

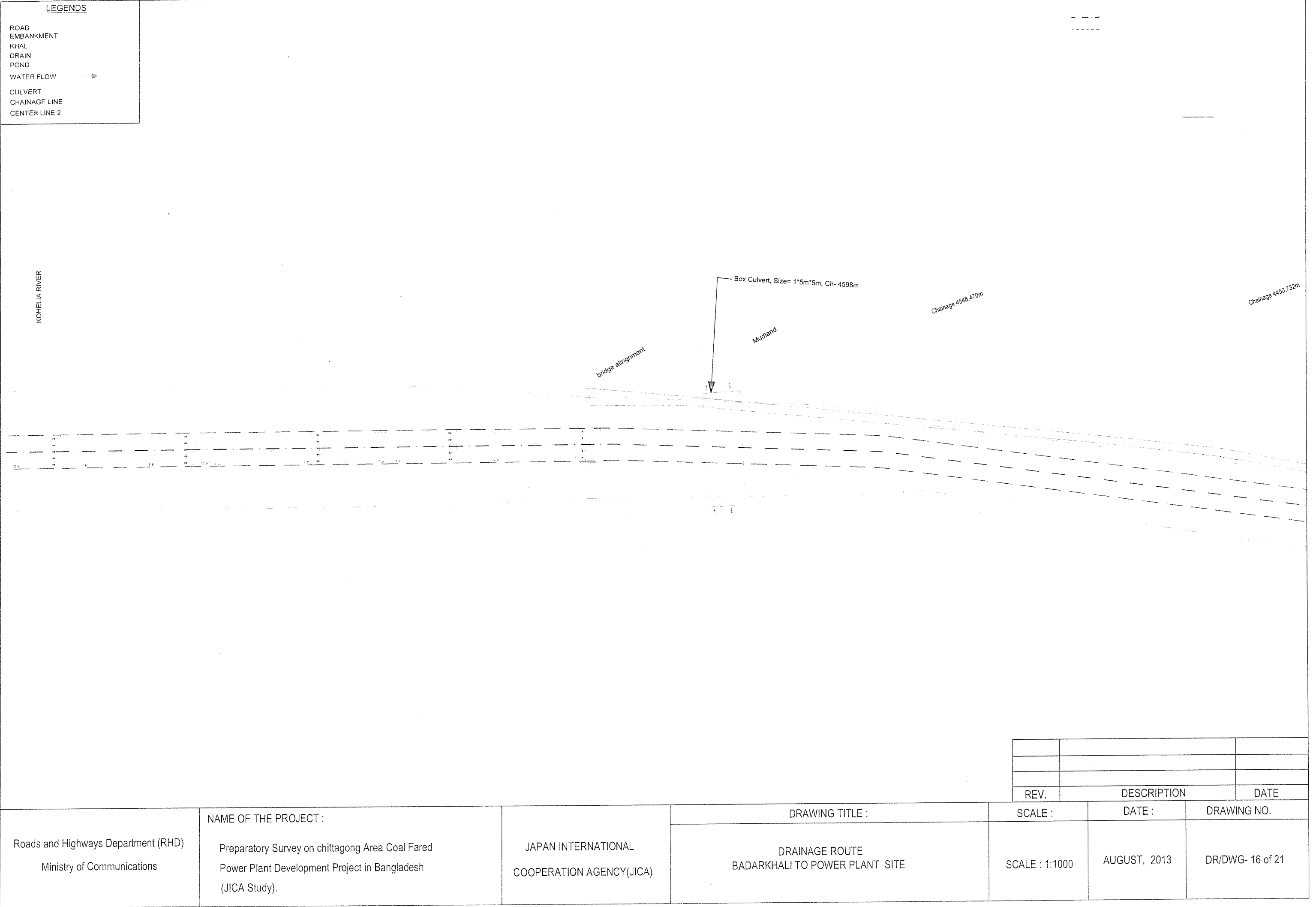
JAPAN INTERNATIONAL
COOPERATION AGENCY(JICA)

DRAINAGE ROUTE
BADARKHALI TO POWER PLANT SITE

SCALE : 1:1000

AUGUST, 2013

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Roads and Highways Department (RHD)
Ministry of Communications

NAME OF THE PROJECT :
Preparatory Survey on chittagong Area Coal Fared
Power Plant Development Project in Bangladesh
(JICA Study).

JAPAN INTERNATIONAL
COOPERATION AGENCY(JICA)

DRAINAGE ROUTE
BADARKHALI TO POWER PLANT SITE

SCALE : 1:1000

AUGUST, 2013

DRAWING NO.
DR/DWG- 16 of 21

LEGENDS

ROAD
EMBANKMENT
KHAL
DRAIN
POND
WATER FLOW
CULVERT
CHAINAGE LINE
CENTER LINE 2

LEGENDS

ROAD
EMBANKMENT
KHAL
DRAIN
POND
WATER FLOW
CULVERT
CHAINAGE LINE
CENTER LINE 2

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT :	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
	Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).		DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE	SCALE : 1:1000	AUGUST, 2013	DR/DWG- 17 of 21

Roads and Highways Department (RHD)
Ministry of Communications

NAME OF THE PROJECT :

Preparatory Survey on chittagong Area Coal Fired
Power Plant Development Project in Bangladesh
(JICA Study).

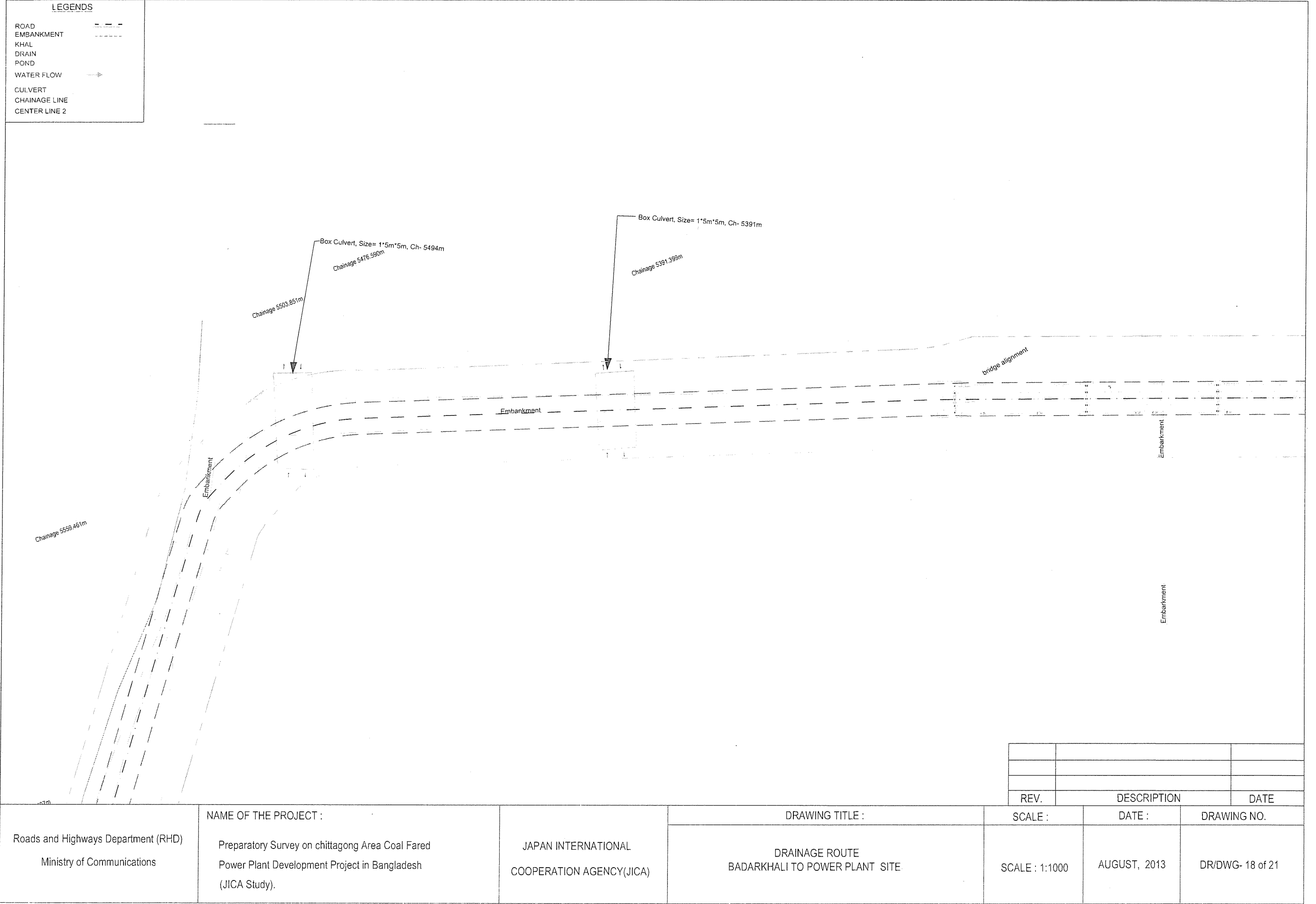
JAPAN INTERNATIONAL
COOPERATION AGENCY(JICA)

DRAWING TITLE :
DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE

SCALE : 1:1000

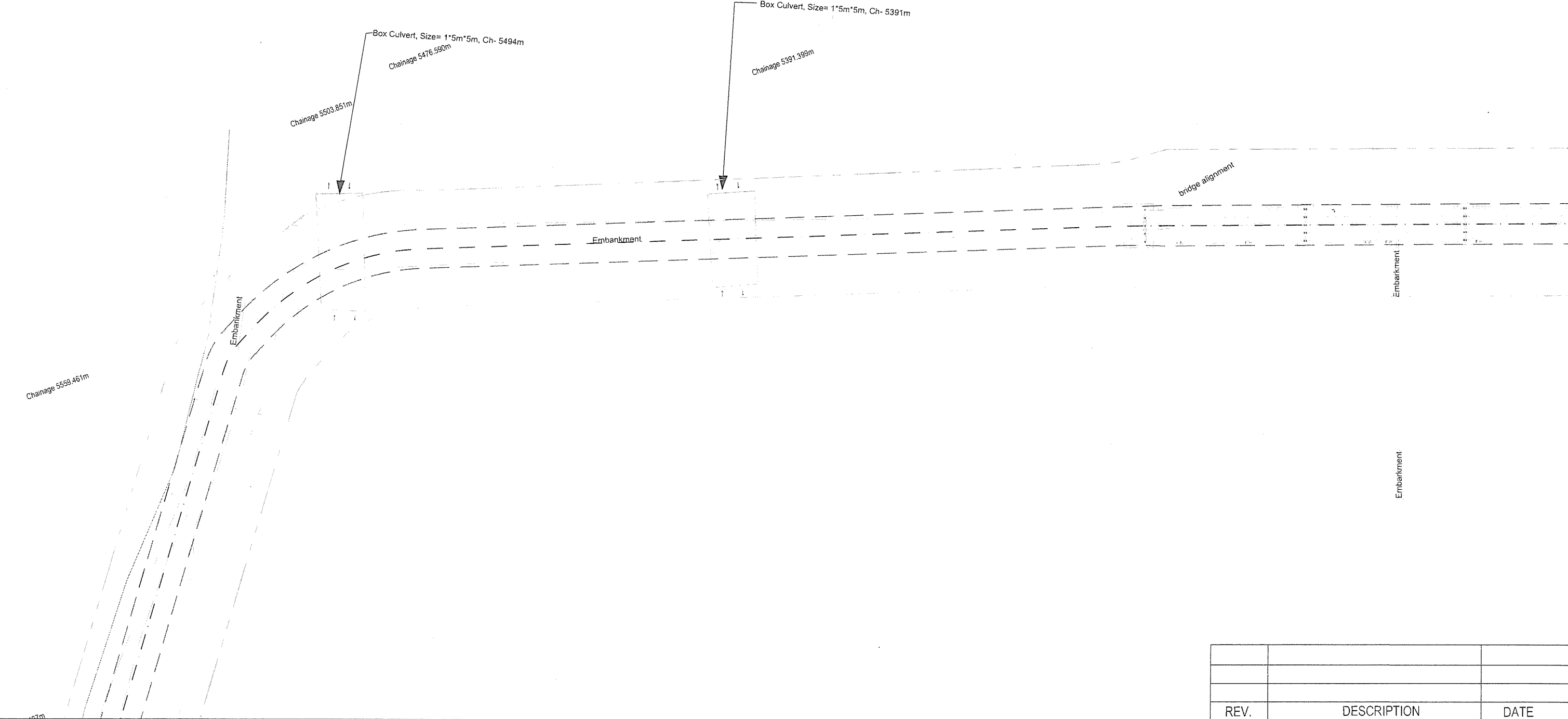
DATE :
AUGUST, 2013

DRAWING NO.
DR/DWG- 17 of 21



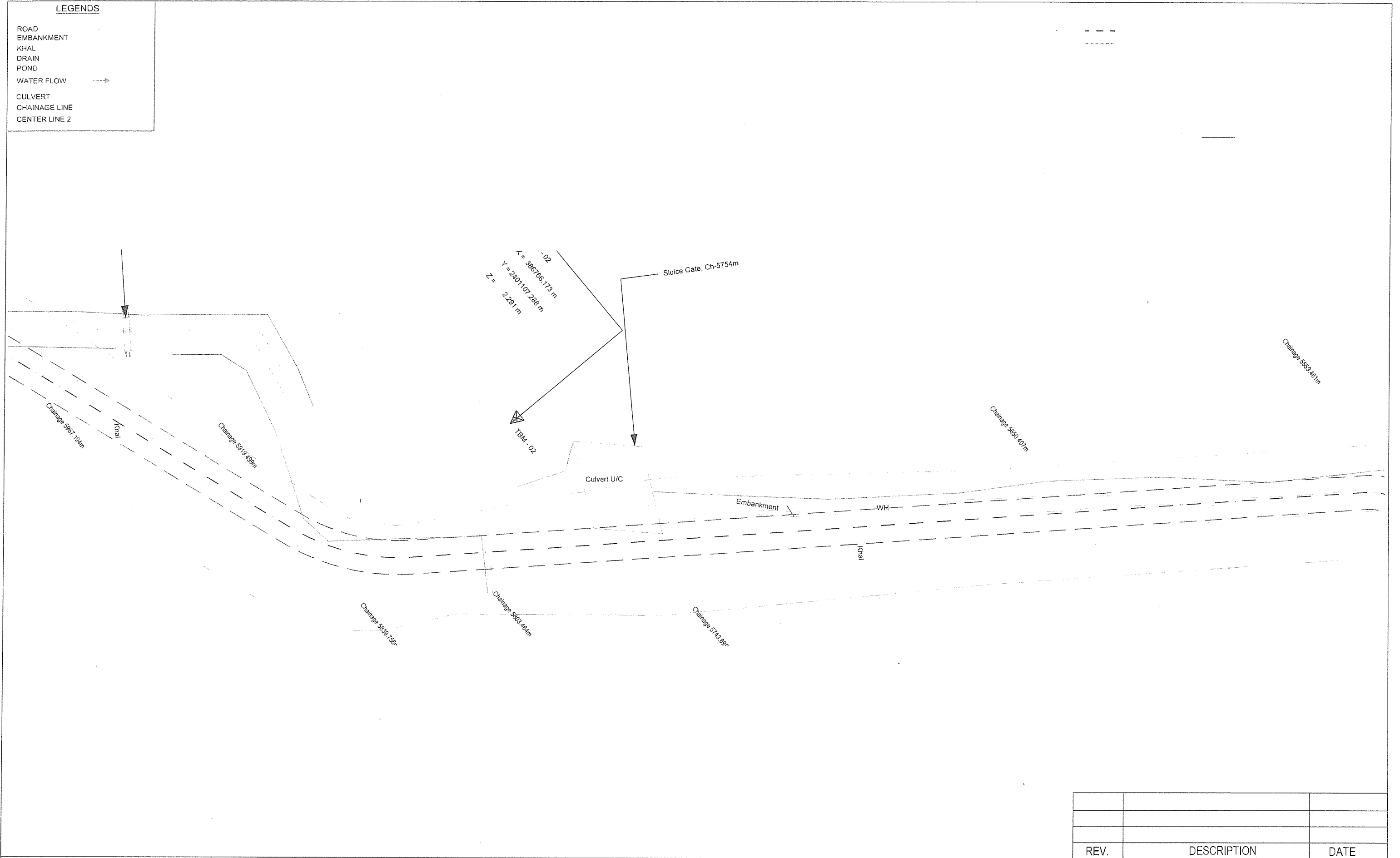
LEGENDS

- ROAD
- EMBANKMENT
- KHAL
- DRAIN
- POND
- WATER FLOW
- CULVERT
- CHAINAGE LINE
- CENTER LINE 2

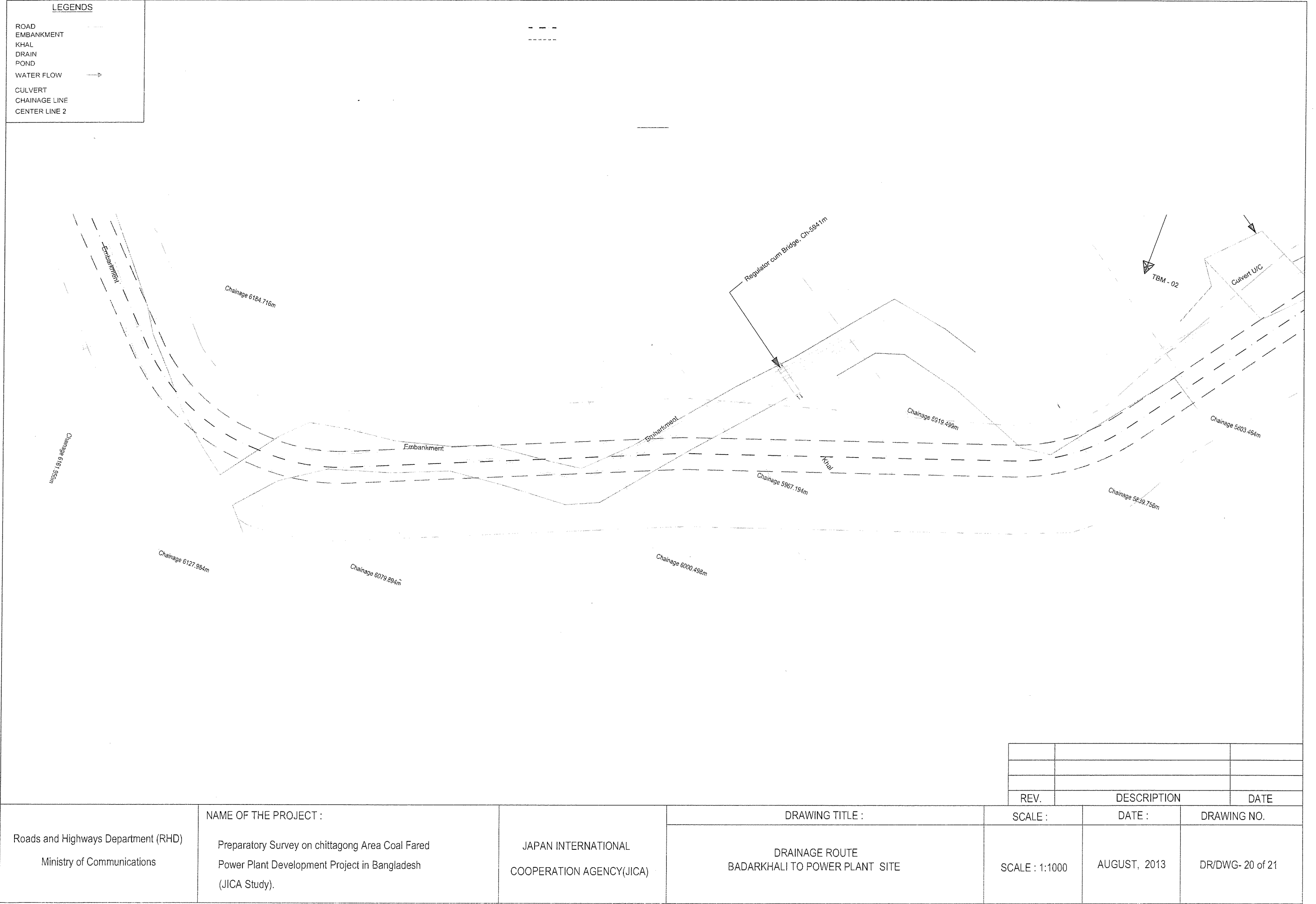


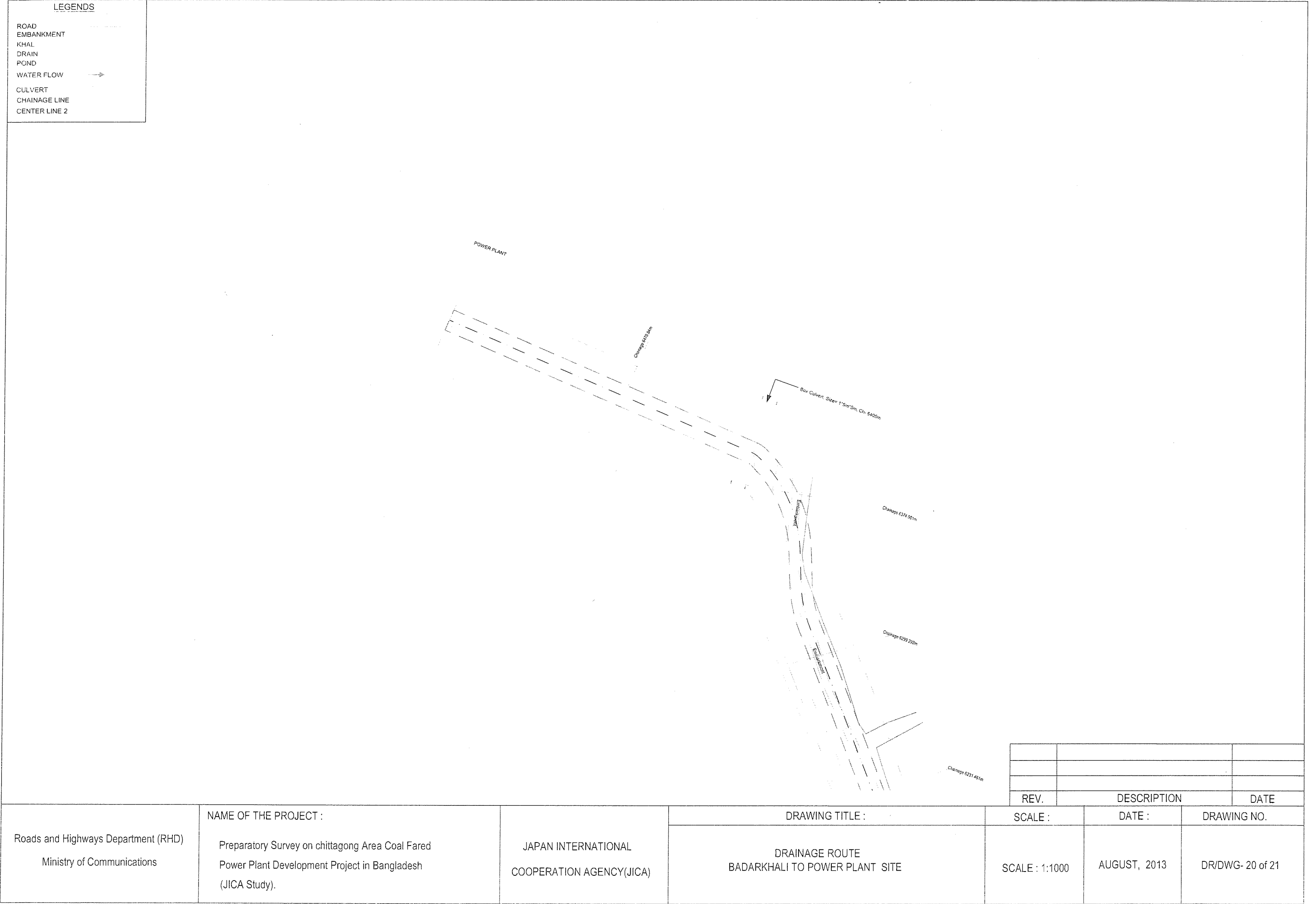
REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT :	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
	Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).		DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE	SCALE : 1:1000	AUGUST, 2013	DR/DWG- 18 of 21



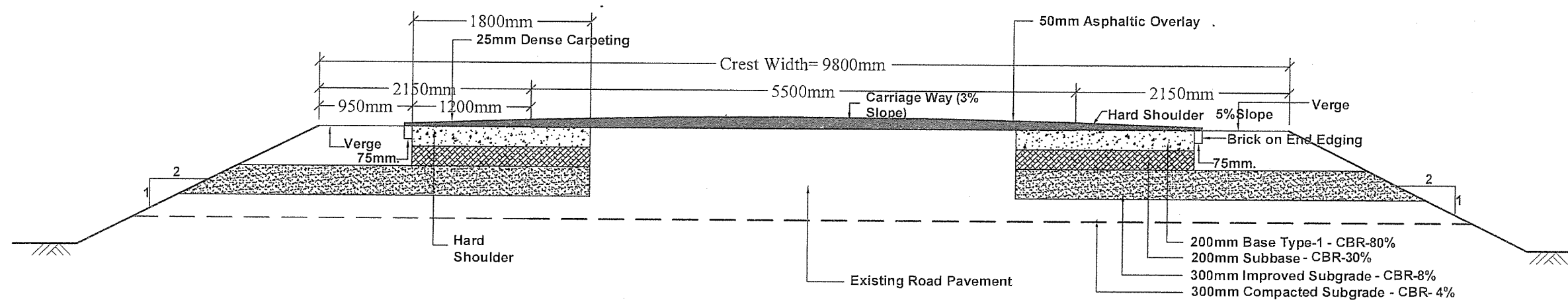
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			DRAINAGE ROUTE BADARKHALI TO POWER PLANT SITE	SCALE : 1:1000	AUGUST, 2013	DR/DWG- 19 of 21





TYPICAL CROSS SECTION

1. (a) Ekota Bazar to Pekua Intersection, 50% Length to be Asphaltic Overlay

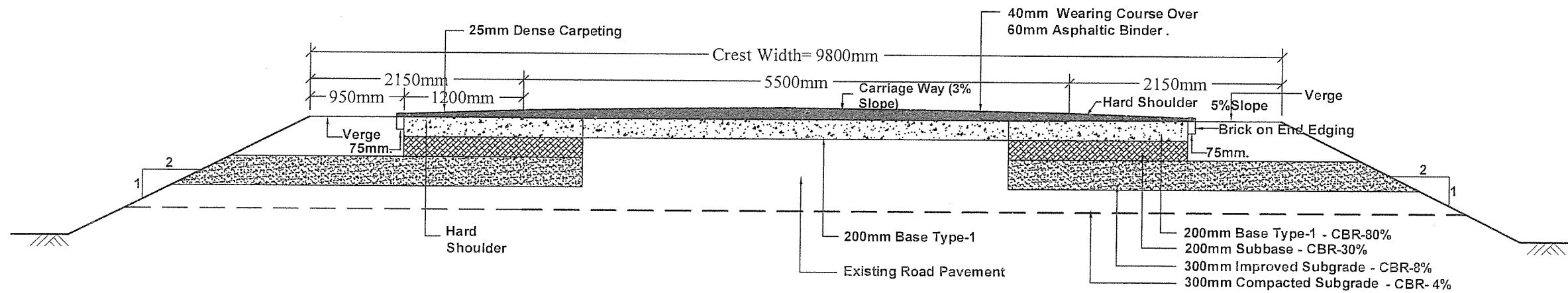


Section: Ekota Bazar to Pekua Intersection (Length Approx. 11.8Km)

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT :	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	REV.	DESCRIPTION	DATE
	Preparatory Survey on chittagong Area Coal Fired Power Plant Development Project in Bangladesh (JICA Study).		ROAD TYPICAL CROSS SECTION AKOTA BAZAR TO PEKUA INTERSECTION	SCALE :	DATE :	DRAWING NO.
				1 : 50	AUGUST, 2013	RDS/DWG-01 of 09

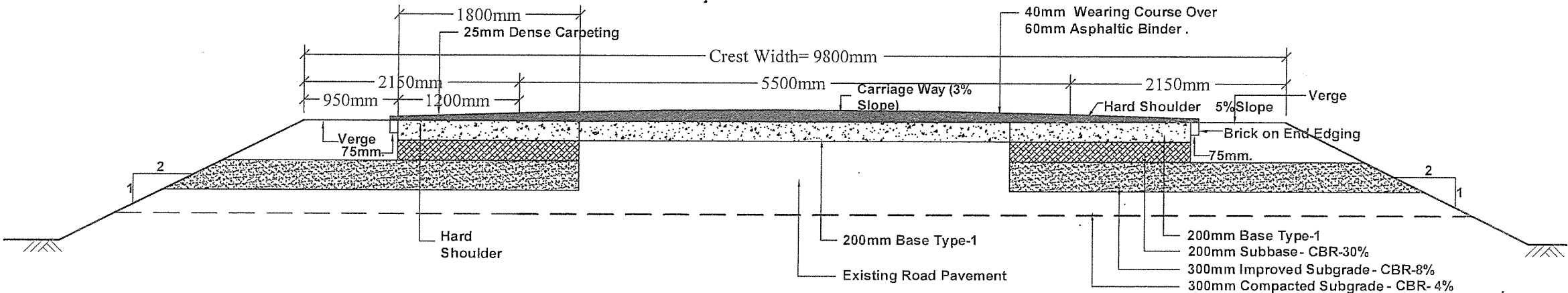
1. (b)Ekota Bazar to Pekua Intersection 50% Partial Reconstruction



Section: Ekota Bazar to Pekua Intersection (Length Approx. 11.8Km)

				REV.	DESCRIPTION	DATE
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE : ROAD TYPICAL CROSS SECTION AKOTA BAZAR TO PEKUA INTERSECTION	SCALE : 1 : 50	DATE : AUGUST, 2013	DRAWING NO. RDS/DWG-02 of 09

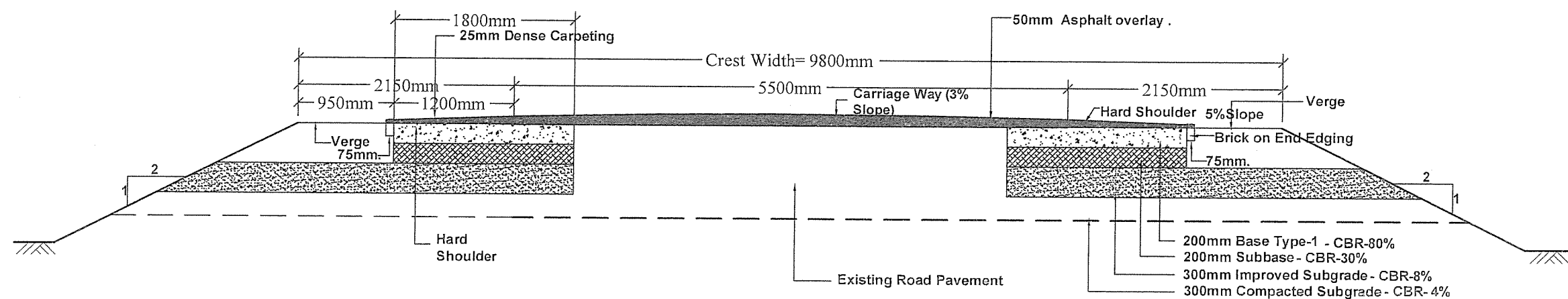
2. Pekua Intersection to Eidmoni Intersection Partial Reconstruction



Section: Pekua Intersection to Eidmoni Intersection (Length Approx. 10.90Km)

							REV.	DESCRIPTION	DATE
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE : ROAD TYPICAL CROSS SECTION PEKUA INTERSECTION EIDMONI				SCALE : 1 : 50	DATE : AUGUST, 2013	DRAWING NO. RDS/DWG-03 of 09

3. Eidmoni Intersection to Janata Bazar Aspahaltic Overlay

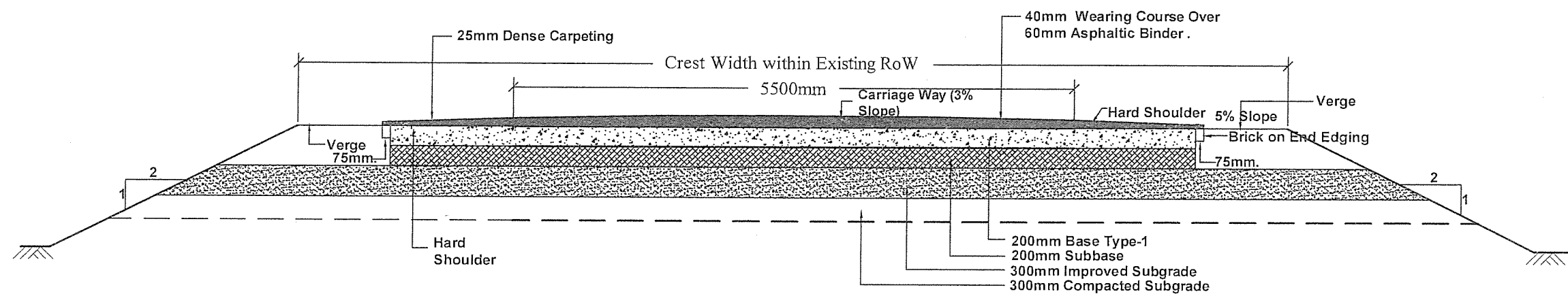


Section: Eidmoni Intersection to Janata Bazar (Length Approx. 8.6Km)

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD TYPICAL CROSS SECTION EIDMONI TO JANATA BAZAR	1 : 50	AUGUST, 2013	RDS/DWG-04 of 09

4. Janata Bazar to Yunuskhali Intersection Full Reconstruction



Section: Janata Bazar to Yunuskhali Intersection (Length Approx. 1.9Km)

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT :	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD TYPICAL CROSS SECTION JANATA BAZAR TO YUNUSKHALI VILLAGE	1 : 50	AUGUST, 2013	RDS/DWG-05 of 09

NAME OF THE PROJECT :

Preparatory Survey on chittagong Area Coal Fared
Power Plant Development Project in Bangladesh
(JICA Study).

JAPAN INTERNATIONAL
COOPERATION AGENCY(JICA)

DRAWING TITLE :

ROAD TYPICAL CROSS SECTION JANATA
BAZAR TO YUNUSKHALI VILLAGE

SCALE :

1 : 50

DESCRIPTION

DATE :

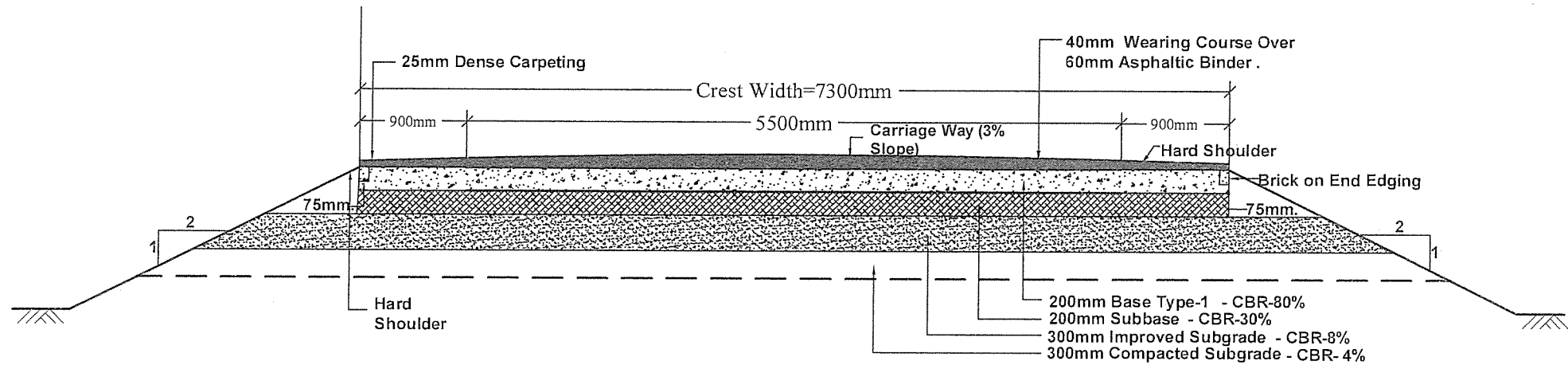
AUGUST, 2013

DATE

DRAWING NO.

RDS/DWG-05 of 09

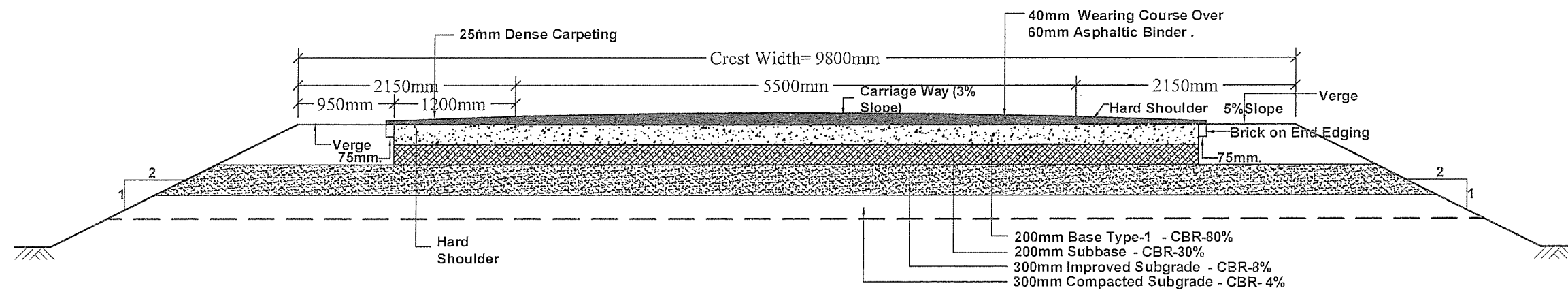
5. a. Yunuskhali End New Construction



Section: Through Yunuskhali village.(Length Approx. 1071.44 m, Ch-3125.56m to 4197m)

			REV.	DESCRIPTION	DATE	
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :		SCALE :	DRAWING NO.
			ROAD TYPICAL CROSS SECTION YUNUSKHALI END		1 : 50	RDS/DWG-06 of 09

5. b. Yunuskhali End New Construction

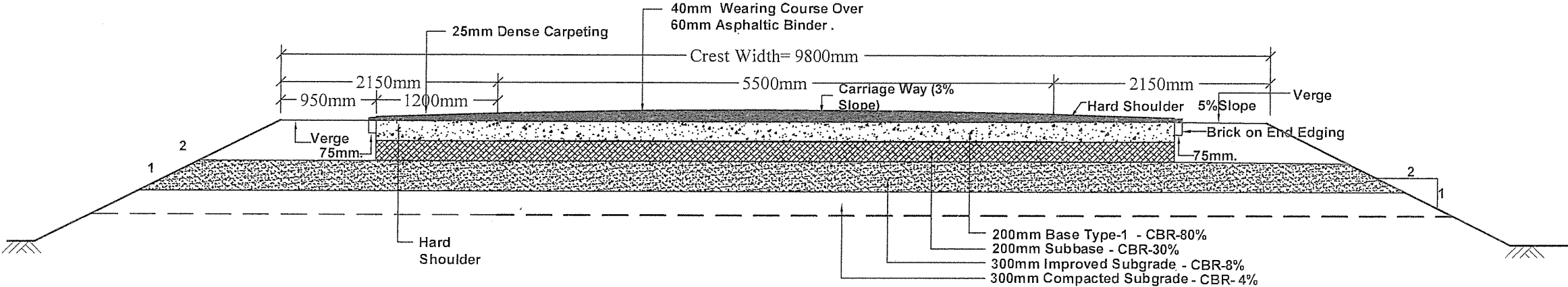


Section: New Construction through Salt Field at Yunuskhali End (Length Approx. 452m, Ch-4194.84 to 4647.84)

REV.	DESCRIPTION	DATE

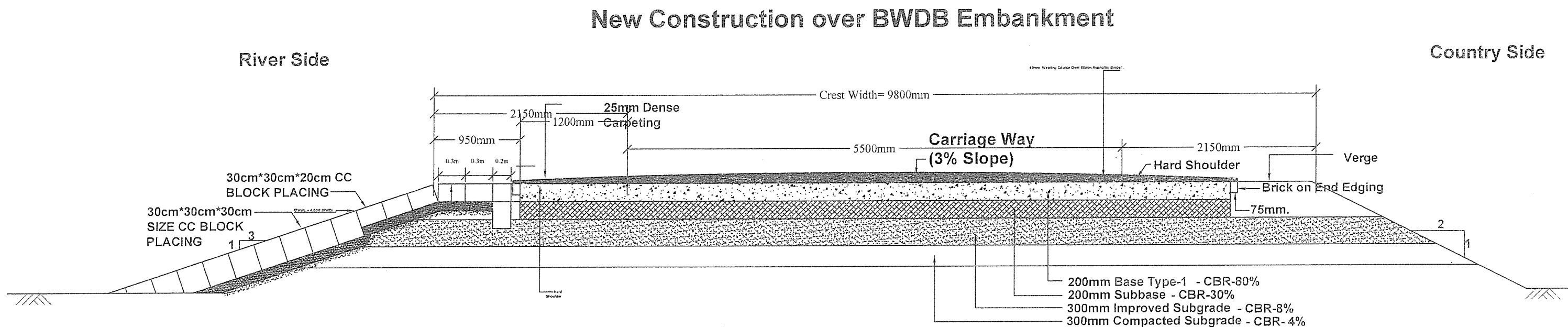
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT :	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
	Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).		ROAD TYPICAL CROSS SECTION YUNUSKHALI VILLAGE	1 : 50	AUGUST, 2013	RDS/DWG-07 of 09

6. (a) New Construction through Salt Field



Section: New Construction through Salt Field (Length approx. 659.86m)

				REV.	DESCRIPTION	DATE
Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT : Preparatory Survey on chittagong Area Coal Fared Power Plant Development Project in Bangladesh (JICA Study).	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD TYPICAL CROSS SECTION NEW CONSTRUCTION THROUGH SALT FIELD	1 : 50	AUGUST, 2013	RDS/DWG-08 of 09



Section: New Construction over BWDB Embankment (Length Approx.605.75m)

REV.	DESCRIPTION	DATE

Roads and Highways Department (RHD) Ministry of Communications	NAME OF THE PROJECT :	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)	DRAWING TITLE :	SCALE :	DATE :	DRAWING NO.
			ROAD CROSS SECTION WITH REVETMENT	1 : 40	AUGUST, 2013	RDS/DWG

