

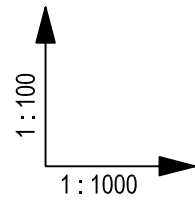
# **ANNEX III-C- DRAWINGS**

**ITB 06-2023**

**REHABILITATION OF RURAL ROAD IN SRAE KHAV COMMUNE, ANGKOR  
CHUM DISTRICT, SIEM REAP PROVINCE**

**Cambodia, November 2023**

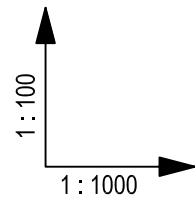
LONGITUDINAL PROFILE



DATUM ELEV.

Existing Ground Level (EL)	10.00	10.02	10.05	10.02	9.95	9.87	9.92	9.97	10.00	10.01	10.02	9.90	9.77	9.97	9.95	9.93
Left Field Elevation (GL)	10.00	10.03	10.06	10.05	9.98	9.91	9.91	9.91	9.91	9.92	9.93	9.87	9.80	10.01	9.96	9.91
Righ Field Elevation (GR)	10.00	9.98	9.97	9.94	9.90	9.86	9.92	9.98	10.00	9.97	9.94	9.86	9.79	10.02	10.01	10.00
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Subgrade Elevation (SL)	10.24	10.25	10.26	10.26	10.27	10.28	10.29	10.30	10.30	10.31	10.32	10.33	10.34	10.34	10.35	10.36
Design Elevation (DL)	10.39	10.40	10.41	10.41	10.42	10.43	10.44	10.45	10.45	10.46	10.47	10.48	10.49	10.49	10.50	10.51
Chainage	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300
Description	BM=10m, Head Wall of Culvert Existing single pipe culvert Ø800 at PK 0+090 Gradient 0.04% DESIGN W=4.00m Existing single pipe culvert Ø800 at PK 0+260															

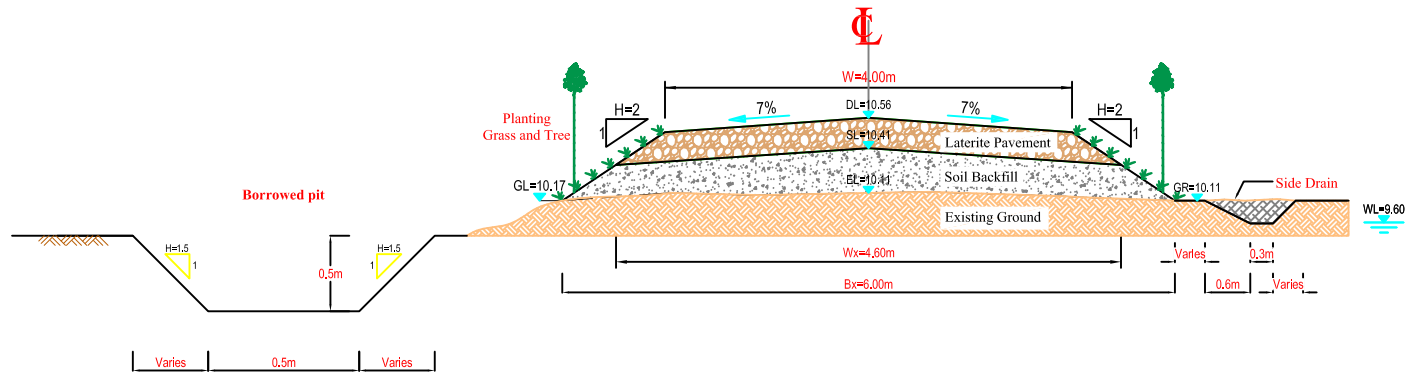
SCALE X, Y



DATUM ELEV.

Existing Ground Level (EL)	9.93	10.01	10.10	10.11	10.05	9.99	10.01	10.03	10.10	10.21	10.32	10.47	10.62	10.70	10.70	10.72
Left Field Elevation (GL)	9.91	10.03	10.16	10.17	10.08	9.99	10.05	10.10	10.18	10.27	10.37	10.42	10.47	10.54	10.63	10.72
Righ Field Elevation (GR)	10.00	10.05	10.10	10.11	10.08	10.05	10.07	10.08	10.15	10.28	10.41	10.44	10.47	10.53	10.63	10.74
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Subgrade Elevation (SL)	10.36	10.37	10.38	10.41	10.46	10.52	10.57	10.63	10.69	10.74	10.80	10.85	10.91	10.94	10.95	10.96
Design Elevation (DL)	10.51	10.52	10.53	10.56	10.61	10.67	10.72	10.78	10.84	10.89	10.95	11.00	11.06	11.09	11.10	11.11
Chainage	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600
Description	Gradient 0.20% DESIGN W=4.00m															

TYPICAL CROSS SECTION 0+360



NOTES:

- 1- All dimensions are in millimetres unless otherwise indicated.  
2- All levels are in metres unless otherwise indicated.

DESCRIPTION	SYMBOLS
Laterite	
Filling embankment	
Existing embankment	
Excavation	
Existing ground	
Grass	



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION: Srae Khvav Commune, Angkor Chum District

Rural Road Rehabilitation

Longitudinal profile and cross section

DRAW BY: Nhep Sophara

POSITION: FIELD ENGINEER

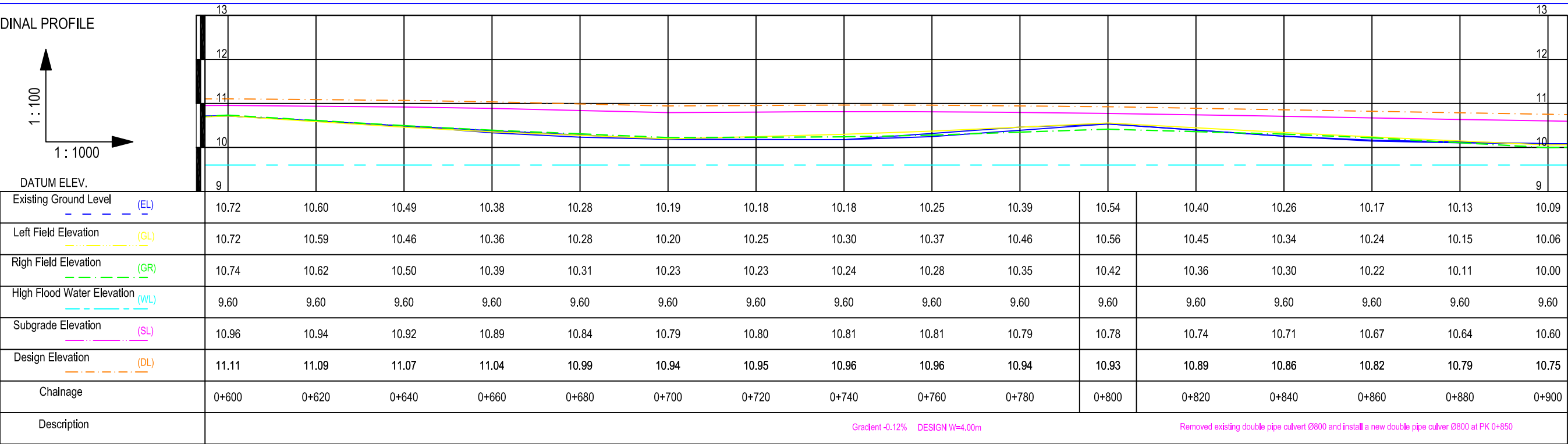
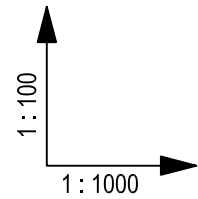
ORIGINAL SIZE: A3

SCALE: 1:100, 1:1000

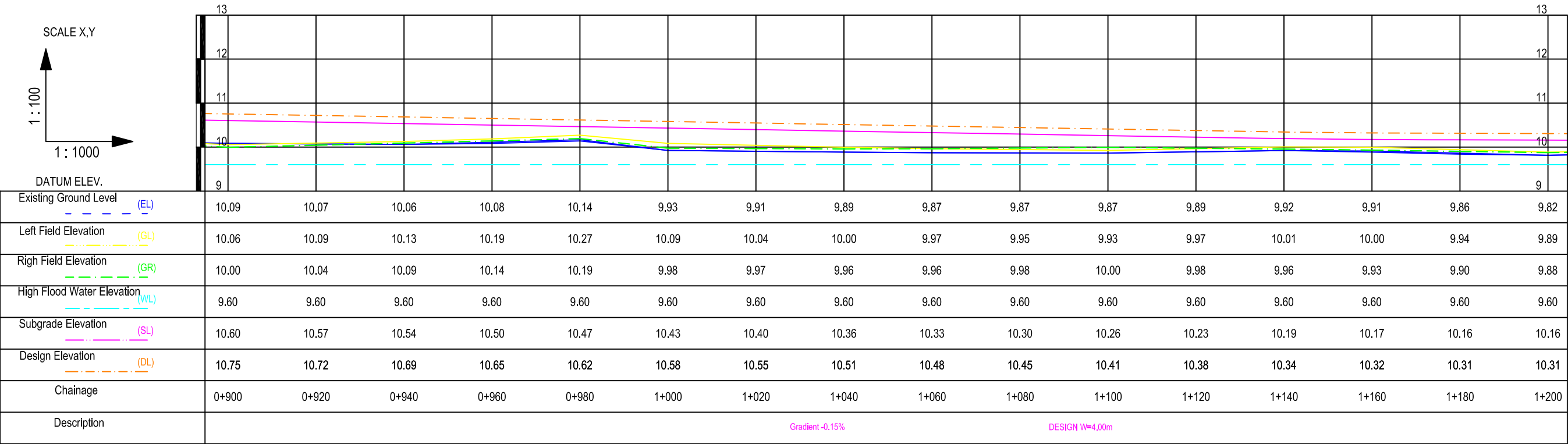
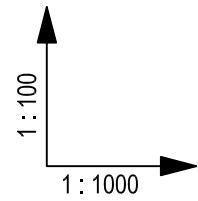
SHEET: 1 OF 9

DATE: 19/09/2023

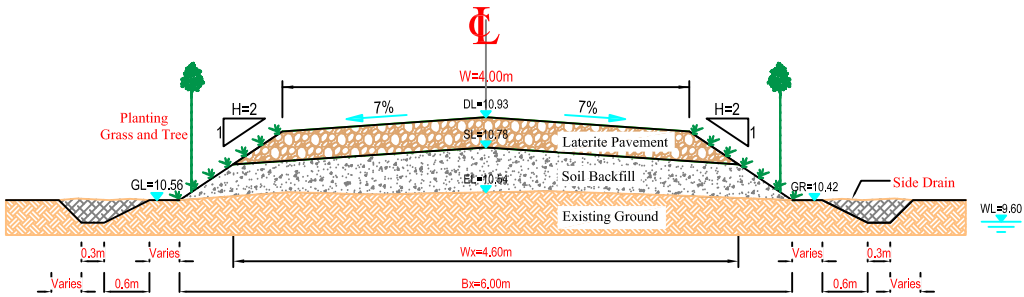
LONGITUDINAL PROFILE



SCALE X,Y



TYPICAL CROSS SECTION 0+800



NOTES:

- 1- All dimensions are in millimetres unless otherwise indicated.  
2- All levels are in metres unless otherwise indicated.

DESCRIPTION	SYMBOLS
Laterite	
Filling embankment	
Existing embankment	
Excavation	
Existing ground	
Grass	



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION: Srae Khvav Commune, Angkor Chum District

Rural Road Rehabilitation

Longitudinal profile and cross section

DRAW BY: Nhep Sophara

POSITION: FIELD ENGINEER

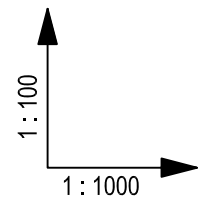
ORIGINAL SIZE: A3

SCALE: 1:100, 1:1000

SHEET: 2 OF 9

DATE: 19/09/2023

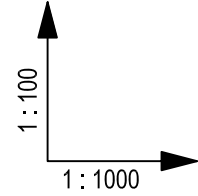
LONGITUDINAL PROFILE



DATUM ELEV.

Existing Ground Level (EL)	9.82	9.85	9.89	9.84	9.70	9.56	9.68	9.80	9.89	9.93	9.97	9.77	9.57	9.93	10.13	10.33
Left Field Elevation (GL)	9.89	9.92	9.96	9.93	9.83	9.73	9.78	9.83	9.82	9.74	9.67	9.61	9.55	9.96	10.14	10.32
Righ Field Elevation (GR)	9.88	9.90	9.93	9.90	9.81	9.72	9.81	9.90	9.89	9.77	9.65	9.58	9.52	9.94	10.14	10.34
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Subgrade Elevation (SL)	10.16	10.15	10.15	10.14	10.13	10.12	10.12	10.11	10.14	10.20	10.26	10.30	10.34	10.40	10.48	10.57
Design Elevation (DL)	10.31	10.30	10.30	10.29	10.28	10.27	10.27	10.26	10.29	10.35	10.41	10.45	10.49	10.55	10.63	10.72
Chainage	1+200	1+220	1+240	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	1+420	1+440	1+460	1+480	1+500
Description	Install a new double pipe culvert Ø800 at PK 1+300 Gradient 0.14% DESIGN W=4.00m															

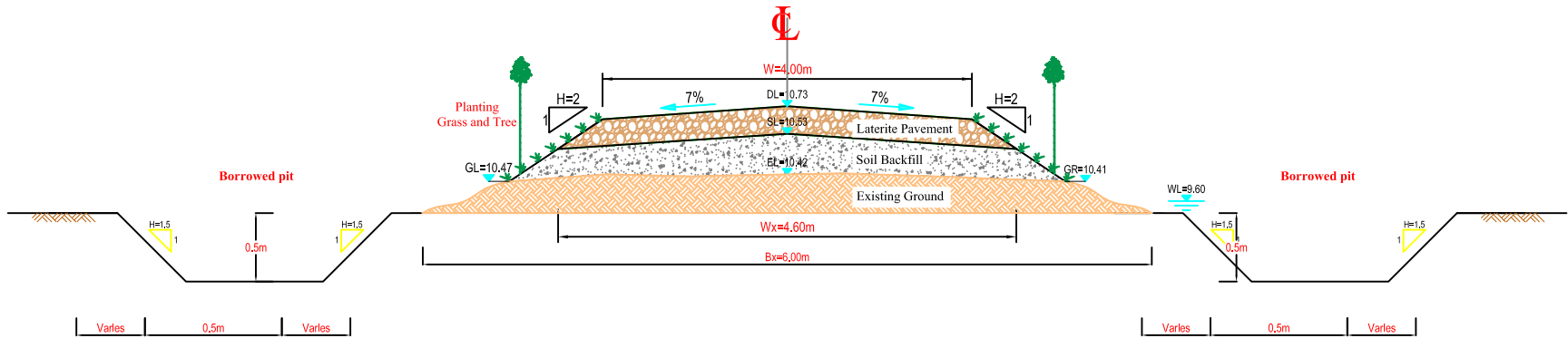
SCALE X,Y



DATUM ELEV.

Existing Ground Level (EL)	10.33	10.31	10.29	10.31	10.36	10.42	10.39	10.37	10.35	10.35	10.35	10.26	10.18	10.11	10.07	10.03
Left Field Elevation (GL)	10.32	10.32	10.32	10.35	10.41	10.47	10.43	10.39	10.38	10.40	10.43	10.34	10.25	10.18	10.12	10.07
Righ Field Elevation (GR)	10.34	10.32	10.30	10.32	10.36	10.41	10.39	10.37	10.37	10.39	10.41	10.30	10.20	10.12	10.08	10.04
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Subgrade Elevation (SL)	10.57	10.57	10.57	10.57	10.57	10.58	10.58	10.58	10.58	10.58	10.59	10.58	10.58	10.57	10.56	10.55
Design Elevation (DL)	10.72	10.72	10.72	10.72	10.72	10.73	10.73	10.73	10.73	10.73	10.74	10.73	10.73	10.72	10.71	10.70
Chainage	1+500	1+520	1+540	1+560	1+580	1+600	1+620	1+640	1+660	1+680	1+700	1+720	1+740	1+760	1+780	1+800
Description	Gradient -0.01% DESIGN W=4.00m															

TYPICAL CROSS SECTION 1+600



NOTES:

- 1- All dimensions are in millimetres unless otherwise indicated.  
2- All levels are in metres unless otherwise indicated.

DESCRIPTION	SYMBOLS
Laterite	
Filling embankment	
Existing embankment	
Excavation	
Existing ground	
Grass	



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION: Srae Khvav Commune, Angkor Chum District

Rural Road Rehabilitation

Longitudinal profile and cross section

DRAW BY: Nhep Sophara

POSITION: FIELD ENGINEER

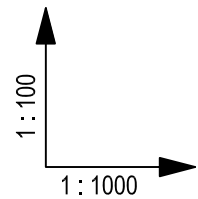
ORIGINAL SIZE: A3

SCALE: 1:100, 1:1000

SHEET: 3 OF 9

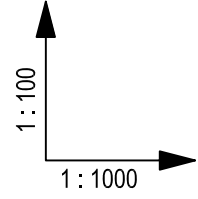
DATE: 19/09/2023

LONGITUDINAL PROFILE



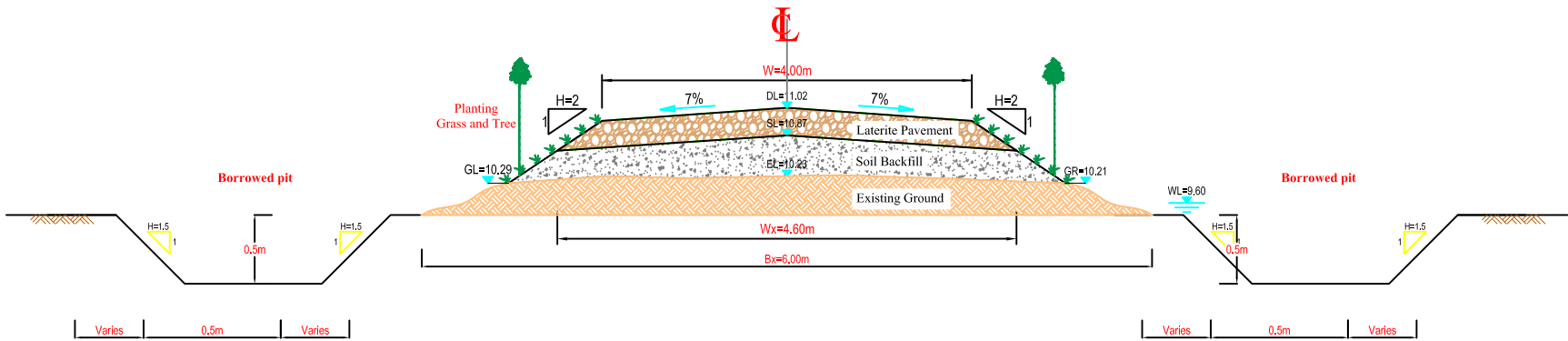
Existing Ground Level (EL)	10.03	10.13	10.24	10.24	10.14	10.34	10.26	10.19	10.23	10.38	10.53	10.62	10.72	10.69	10.54	10.40
Left Field Elevation (GL)	10.07	10.18	10.29	10.30	10.21	10.43	10.35	10.27	10.29	10.40	10.51	10.64	10.77	10.74	10.55	10.36
Righ Field Elevation (GR)	10.04	10.15	10.27	10.27	10.16	10.35	10.27	10.20	10.25	10.41	10.57	10.64	10.72	10.69	10.55	10.41
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Subgrade Elevation (SL)	10.55	10.55	10.54	10.56	10.61	10.65	10.70	10.75	10.79	10.84	10.89	10.93	10.98	11.00	10.98	10.96
Design Elevation (DL)	10.70	10.70	10.69	10.71	10.76	10.80	10.85	10.90	10.94	10.99	11.04	11.08	11.13	11.15	11.13	11.11
Chainage	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100
Description	Gradient 0.14%    DESIGN W=4.00m															

SCALE X, Y



Existing Ground Level (EL)	10.40	10.42	10.44	10.40	10.31	10.23	10.40	10.57	10.43	10.46	10.50	10.06	9.62	9.61	10.03	10.45
Left Field Elevation (GL)	10.36	10.41	10.46	10.45	10.37	10.29	10.43	10.57	10.42	10.48	10.54	10.07	9.61	9.58	9.98	10.38
Righ Field Elevation (GR)	10.41	10.43	10.46	10.42	10.31	10.21	10.37	10.53	10.39	10.41	10.44	10.01	9.58	9.59	10.04	10.50
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Subgrade Elevation (SL)	10.96	10.94	10.92	10.90	10.89	10.87	10.85	10.83	10.81	10.79	10.78	10.76	10.74	10.72	10.70	10.69
Design Elevation (DL)	11.11	11.09	11.07	11.05	11.04	11.02	11.00	10.98	10.96	10.94	10.93	10.91	10.89	10.87	10.85	10.84
Chainage	2+100	2+120	2+140	2+160	2+180	2+200	2+220	2+240	2+260	2+280	2+300	2+320	2+340	2+360	2+380	2+400
Description	DESIGN W=4.00m    Gradient -0.09%    Install a new double pipe culvert Ø800 at PK 2+400															

TYPICAL CROSS SECTION 2+200



NOTES:

- 1- All dimensions are in millimetres unless otherwise indicated.  
2- All levels are in metres unless otherwise indicated.

DESCRIPTION	SYMBOLS
Laterite	
Filling embankment	
Existing embankment	
Excavation	
Existing ground	
Grass	



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION: Srae Khvav Commune, Angkor Chum District

Rural Road Rehabilitation

Longitudinal profile and cross section

DRAW BY: Nhep Sophara

POSITION: FIELD ENGINEER

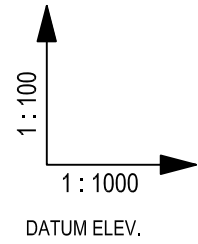
ORIGINAL SIZE: A3

SCALE: 1:100, 1:1000

SHEET: 4 OF 9

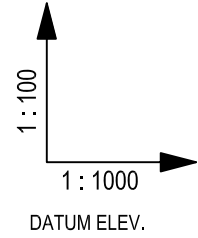
DATE: 19/09/2023

LONGITUDINAL PROFILE



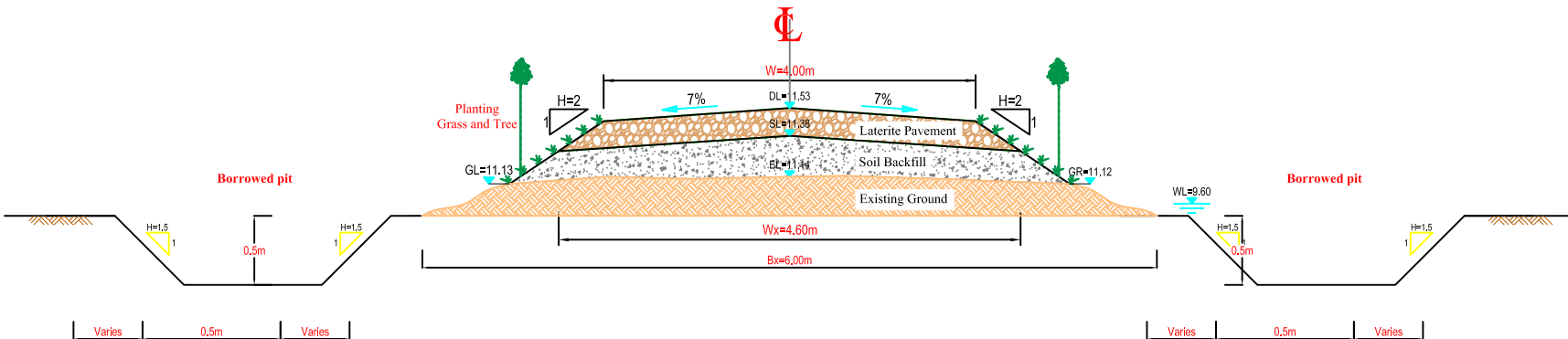
Existing Ground Level (EL)	10.45	10.42	10.40	10.39	10.41	10.43	10.50	10.57	10.61	10.63	10.65	10.58	10.52	10.83	10.84	10.85
Left Field Elevation (GL)	10.38	10.39	10.41	10.40	10.38	10.36	10.45	10.54	10.61	10.67	10.73	10.65	10.57	10.87	10.88	10.89
Right Field Elevation (GR)	10.50	10.50	10.50	10.50	10.48	10.46	10.50	10.55	10.59	10.63	10.67	10.59	10.51	10.82	10.81	10.80
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Subgrade Elevation (SL)	10.69	10.72	10.75	10.78	10.81	10.84	10.87	10.90	10.93	10.96	10.99	11.02	11.05	11.09	11.13	11.17
Design Elevation (DL)	10.84	10.87	10.90	10.93	10.96	10.99	11.02	11.05	11.08	11.11	11.14	11.17	11.20	11.24	11.28	11.32
Chainage	2+400	2+420	2+440	2+460	2+480	2+500	2+520	2+540	2+560	2+580	2+600	2+620	2+640	2+660	2+680	2+700
Description	DESIGN W=4.00m Gradient 0.16%															

SCALE X, Y



Existing Ground Level (EL)	10.85	10.91	10.96	11.02	11.08	11.14	11.02	10.90	10.97	10.86	10.76	10.76	10.76	10.83	10.97	11.11
Left Field Elevation (GL)	10.89	10.92	10.95	11.00	11.07	11.13	11.01	10.90	10.97	10.86	10.75	10.75	10.76	10.83	10.95	11.08
Right Field Elevation (GR)	10.80	10.86	10.93	10.99	11.06	11.12	11.00	10.88	10.97	10.91	10.85	10.80	10.75	10.81	10.97	11.14
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Subgrade Elevation (SL)	11.17	11.21	11.25	11.29	11.33	11.38	11.37	11.37	11.37	11.36	11.36	11.36	11.35	11.35	11.35	11.35
Design Elevation (DL)	11.32	11.36	11.40	11.44	11.48	11.53	11.52	11.52	11.52	11.51	11.51	11.51	11.50	11.50	11.50	11.50
Chainage	2+700	2+720	2+740	2+760	2+780	2+800	2+820	2+840	2+860	2+880	2+900	2+920	2+940	2+960	2+980	3+000
Description	Gradient -0.03% DESIGN W=4.00m															

TYPICAL CROSS SECTION 2+800



NOTES:

- 1- All dimensions are in millimetres unless otherwise indicated.  
2- All levels are in metres unless otherwise indicated.

DESCRIPTION	SYMBOLS
Laterite	
Filling embankment	
Existing embankment	
Excavation	
Existing ground	
Grass	



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION: Srae Khvav Commune, Angkor Chum District

Rural Road Rehabilitation

Longitudinal profile and cross section

DRAW BY: Nhep Sophara

POSITION: FIELD ENGINEER

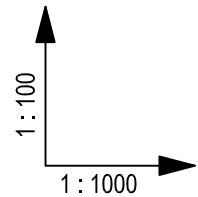
ORIGINAL SIZE: A3

SCALE: 1:100, 1:1000

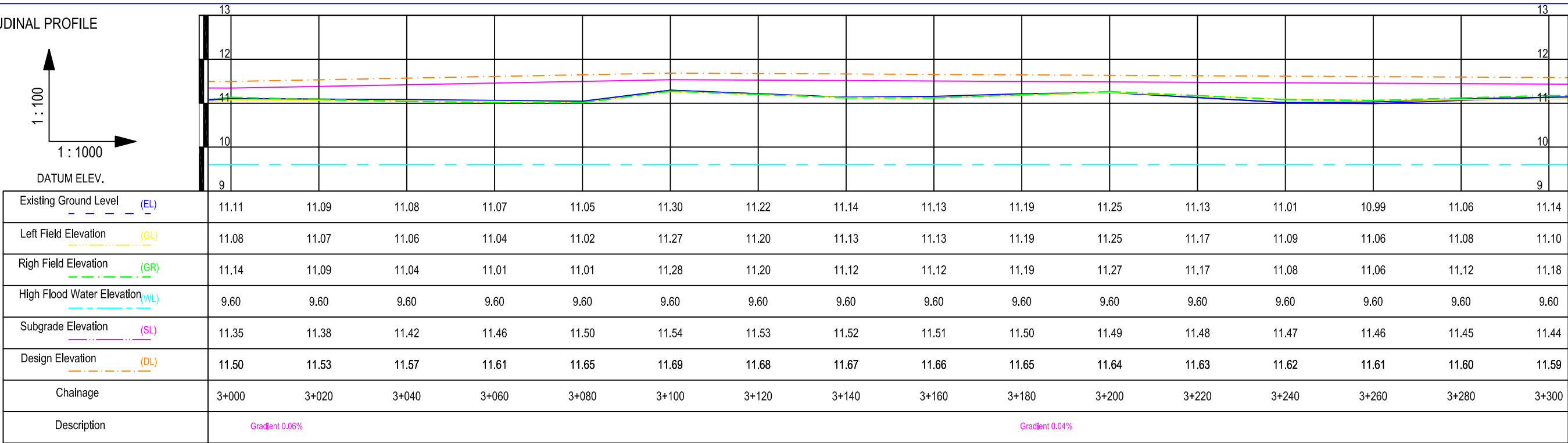
SHEET: 5 OF 9

DATE: 19/09/2023

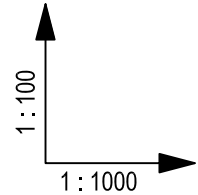
LONGITUDINAL PROFILE



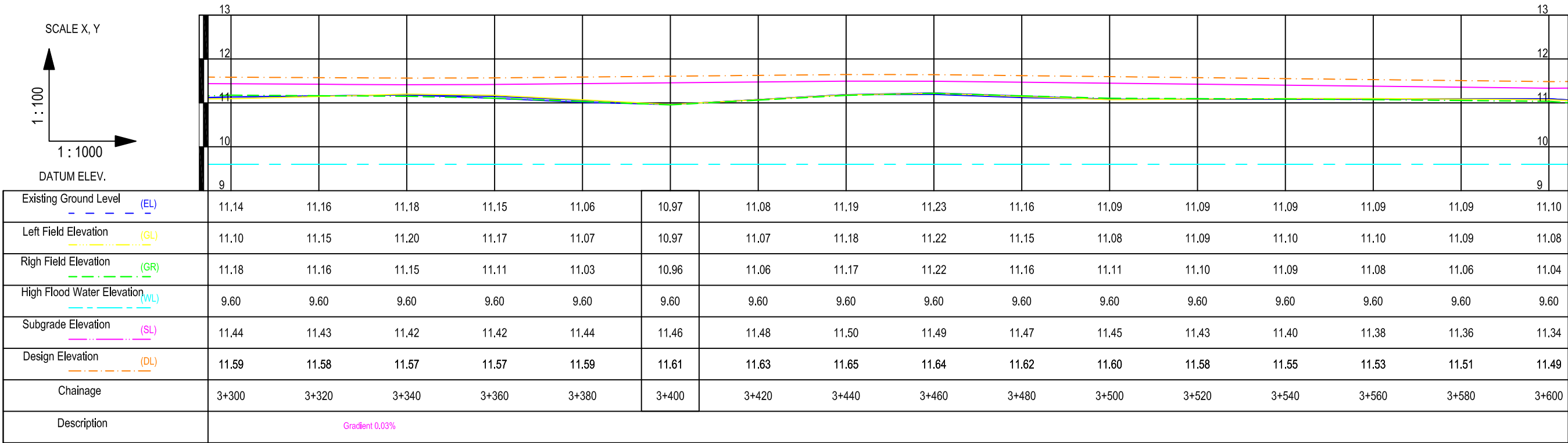
DATUM ELEV.



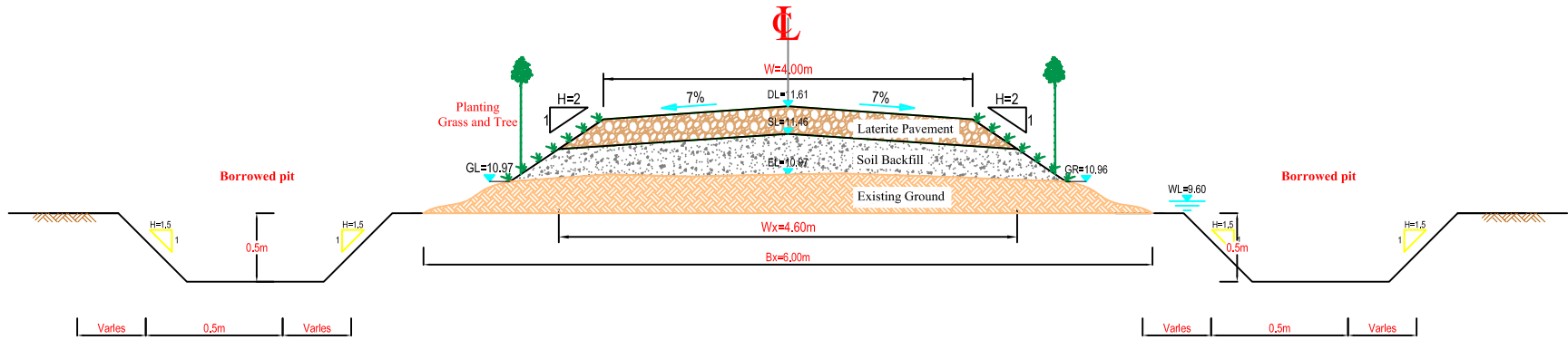
SCALE X, Y



DATUM ELEV.



TYPICAL CROSS SECTION 3+400



NOTES:

- 1- All dimensions are in millimetres unless otherwise indicated.  
2- All levels are in metres unless otherwise indicated.

DESCRIPTION	SYMBOLS
Laterite	
Filling embankment	
Existing embankment	
Excavation	
Existing ground	
Grass	



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION: Srae Khvav Commune, Angkor Chum District

Rural Road Rehabilitation

Longitudinal profile and cross section

DRAW BY: Nhep Sophara

POSITION: FIELD ENGINEER

ORIGINAL SIZE: A3

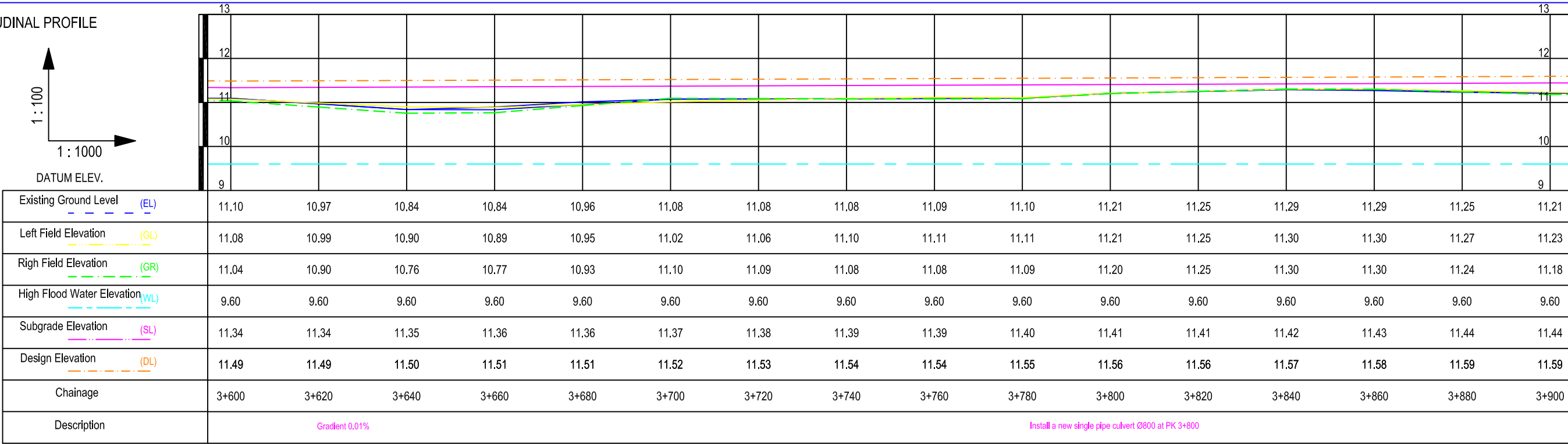
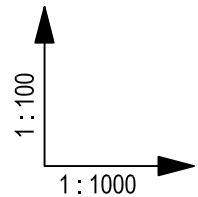
SCALE: 1:100, 1:1000

SHEET: 6 OF 9

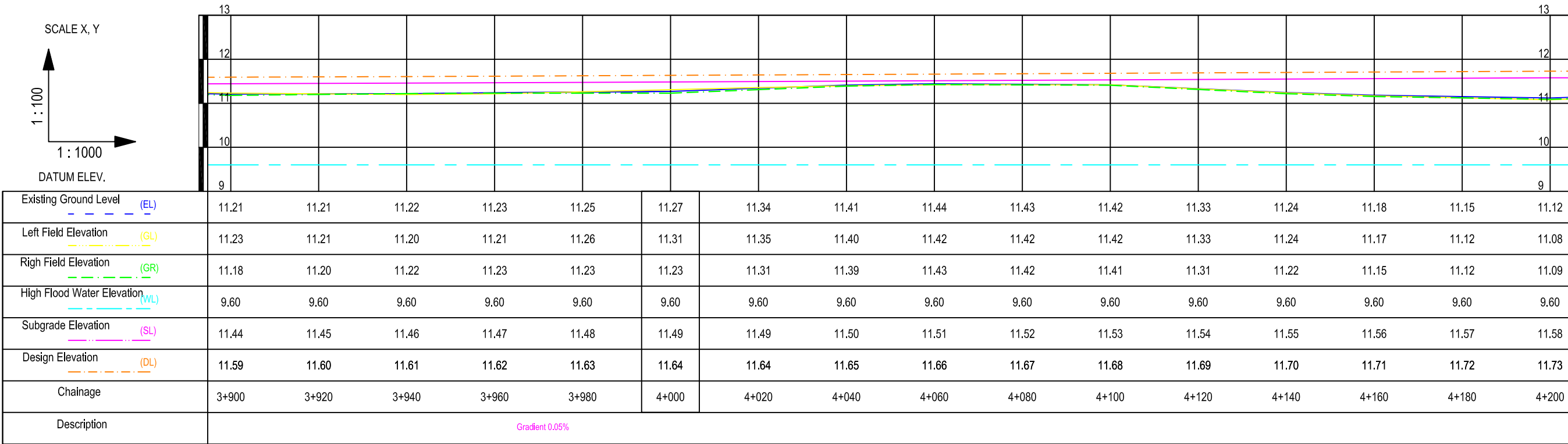
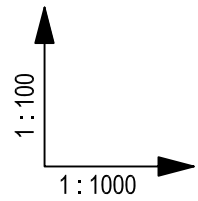
DATE: 19/09/2023



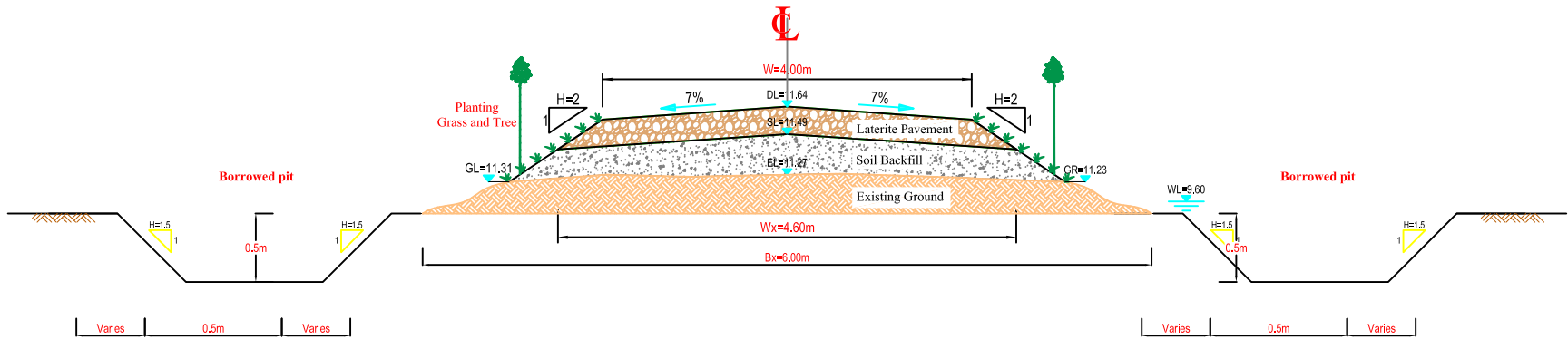
LONGITUDINAL PROFILE



SCALE X, Y



TYPICAL CROSS SECTION 4+000



NOTES:

- 1- All dimensions are in millimetres unless otherwise indicated.  
2- All levels are in metres unless otherwise indicated.

DESCRIPTION	SYMBOLS
Laterite	
Filling embankment	
Existing embankment	
Excavation	
Existing ground	
Grass	



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION: Srae Khvav Commune, Angkor Chum District

Rural Road Rehabilitation

Longitudinal profile and cross section

DRAW BY: Nhep Sophara

POSITION: FIELD ENGINEER

ORIGINAL SIZE: A3

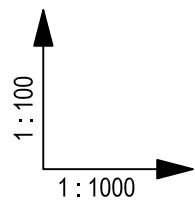
SCALE: 1:100, 1:1000

SHEET: 7 OF 9

DATE: 19/09/2023



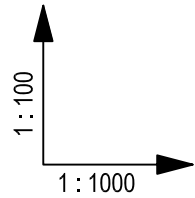
LONGITUDINAL PROFILE



DATUM ELEV.

Existing Ground Level (EL)	11.12	11.18	11.25	11.29	11.32	11.35	11.37	11.40	11.41	11.42	11.43	11.40	11.37	11.29	11.18	11.16
Left Field Elevation (GL)	11.08	11.15	11.22	11.27	11.30	11.32	11.34	11.37	11.38	11.37	11.37	11.35	11.33	11.26	11.14	11.12
Righ Field Elevation (GR)	11.09	11.14	11.19	11.25	11.30	11.35	11.36	11.37	11.38	11.40	11.42	11.40	11.39	11.32	11.19	11.17
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Subgrade Elevation (SL)	11.58	11.58	11.59	11.60	11.61	11.63	11.64	11.65	11.65	11.64	11.63	11.62	11.62	11.61	11.60	11.59
Design Elevation (DL)	11.73	11.73	11.74	11.75	11.76	11.78	11.79	11.80	11.80	11.79	11.78	11.77	11.77	11.76	11.75	11.74
Chainage	4+200	4+220	4+240	4+260	4+280	4+300	4+320	4+340	4+360	4+380	4+400	4+420	4+440	4+460	4+480	4+500
Description	Gradient 0.15%															

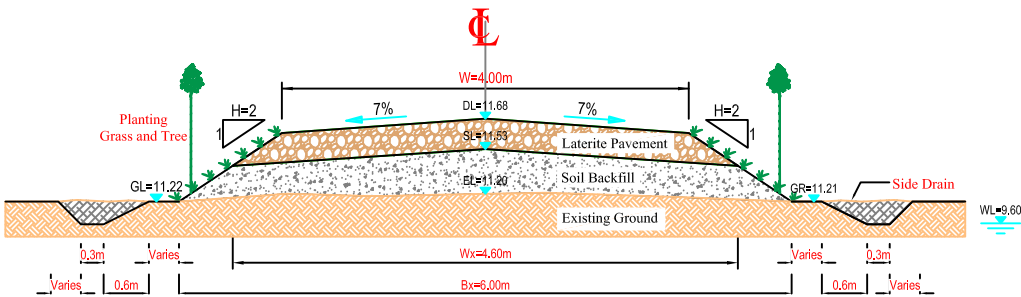
SCALE X, Y



DATUM ELEV.

Existing Ground Level (EL)	11.16	11.14	11.13	11.13	11.14	11.16	11.18	11.20	11.20	11.17	11.15	11.19	11.24	11.36	11.55	11.75
Left Field Elevation (GL)	11.12	11.12	11.13	11.16	11.23	11.29	11.26	11.23	11.22	11.22	11.22	11.25	11.28	11.38	11.55	11.72
Righ Field Elevation (GR)	11.17	11.16	11.15	11.15	11.14	11.14	11.18	11.21	11.21	11.18	11.14	11.20	11.27	11.38	11.53	11.69
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Subgrade Elevation (SL)	11.59	11.59	11.58	11.57	11.56	11.56	11.55	11.54	11.53	11.53	11.52	11.51	11.50	11.61	11.82	12.03
Design Elevation (DL)	11.74	11.74	11.73	11.72	11.71	11.71	11.70	11.69	11.68	11.68	11.67	11.66	11.65	11.76	11.97	12.18
Chainage	4+500	4+520	4+540	4+560	4+580	4+600	4+620	4+640	4+660	4+680	4+700	4+720	4+740	4+760	4+780	4+800
Description	Gradient 0.15%															

TYPICAL CROSS SECTION 4+660



NOTES:

- 1- All dimensions are in millimetres unless otherwise indicated.  
2- All levels are in metres unless otherwise indicated.

DESCRIPTION	SYMBOLS
Laterite	
Filling embankment	
Existing embankment	
Excavation	
Existing ground	
Grass	



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION: Srae Khvav Commune, Angkor Chum District

Rural Road Rehabilitation

Longitudinal profile and cross section

DRAW BY: Nhep Sophara

POSITION: FIELD ENGINEER

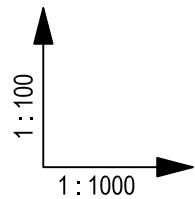
ORIGINAL SIZE: A3

SCALE: 1:100, 1:1000

SHEET: 8 OF 9

DATE: 19/09/2023

LONGITUDINAL PROFILE



DATUM ELEV.

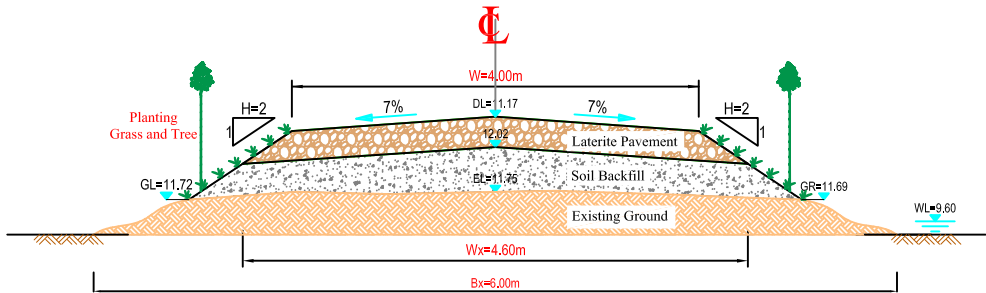
	13				
	12				
	11				
	10				
	9				
Existing Ground Level (EL)	11.75	11.75	11.75	11.75	
Left Field Elevation (GL)	11.72	11.72	11.72	11.72	
Righ Field Elevation (GR)	11.69	11.69	11.69	11.69	
High Flood Water Elevation (WL)	9.60	9.60	9.60	9.60	
Subgrade Elevation (SL)	12.03	12.02	12.00	11.99	
Design Elevation (DL)	12.18	12.17	12.15	12.14	
Chainage	4+800	4+820	4+840	4+850	
Description					

NOTES:

- 1- All dimensions are in millimetres unless otherwise indicated.  
2- All levels are in metres unless otherwise indicated.

DESCRIPTION	SYMBOLS
Laterite	
Filling embankment	
Existing embankment	
Excavation	
Existing ground	
Grass	

TYPICAL CROSS SECTION 4+820



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION: Srae Khvav Commune, Angkor Chum District

Rural Road Rehabilitation

Longitudinal profile and cross section

DRAW BY: Nhep Sophara

POSITION: FIELD ENGINEER

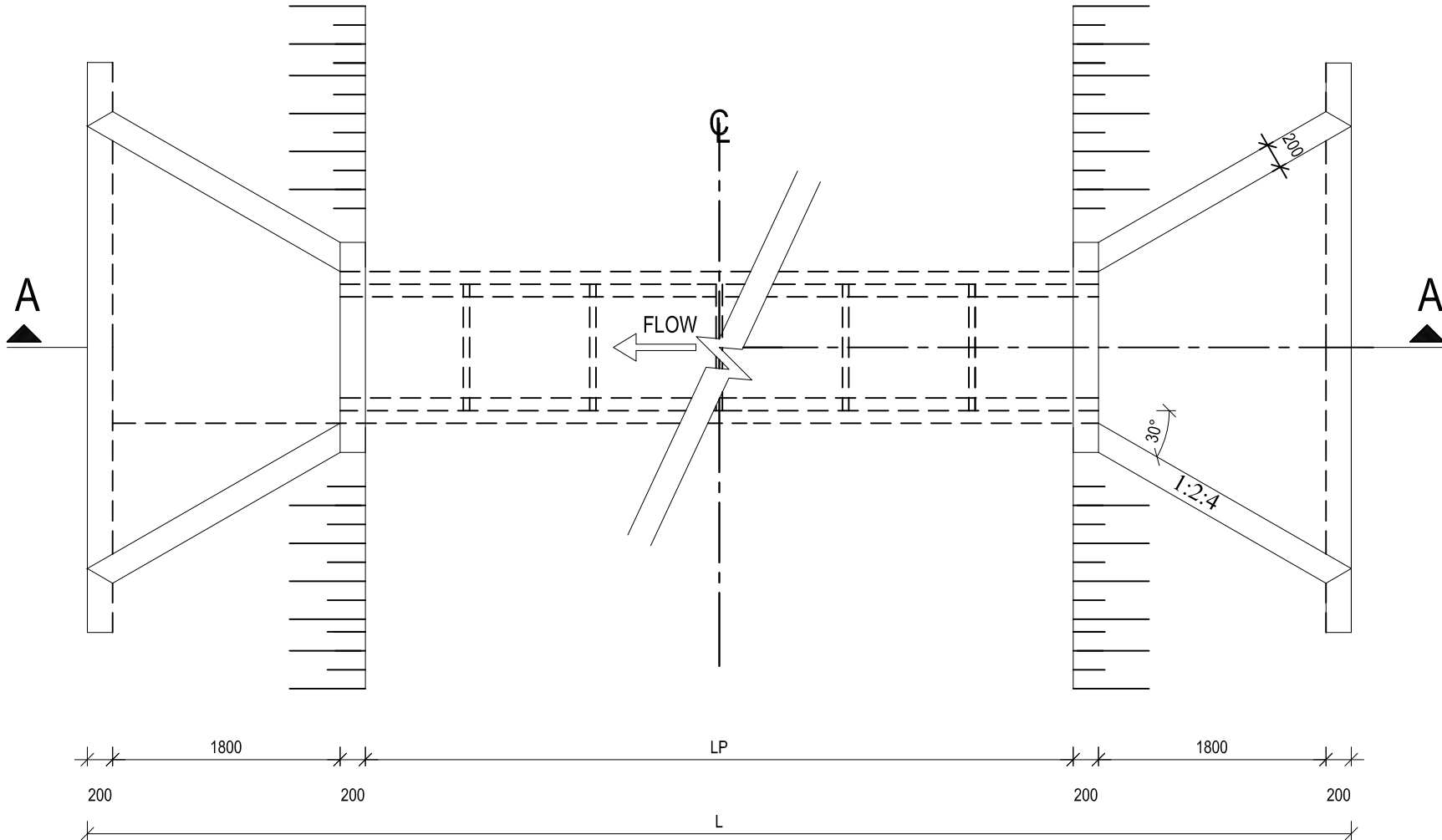
ORIGINAL SIZE: A3

SCALE: 1:100, 1:1000

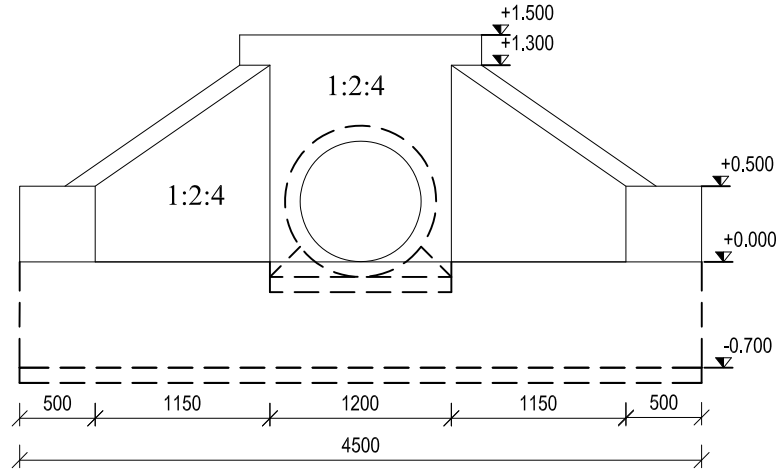
SHEET: 9 OF 9

DATE: 19/09/2023

## PLAN VIEW

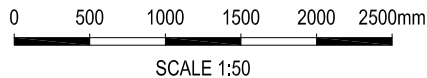


## ELEVATION

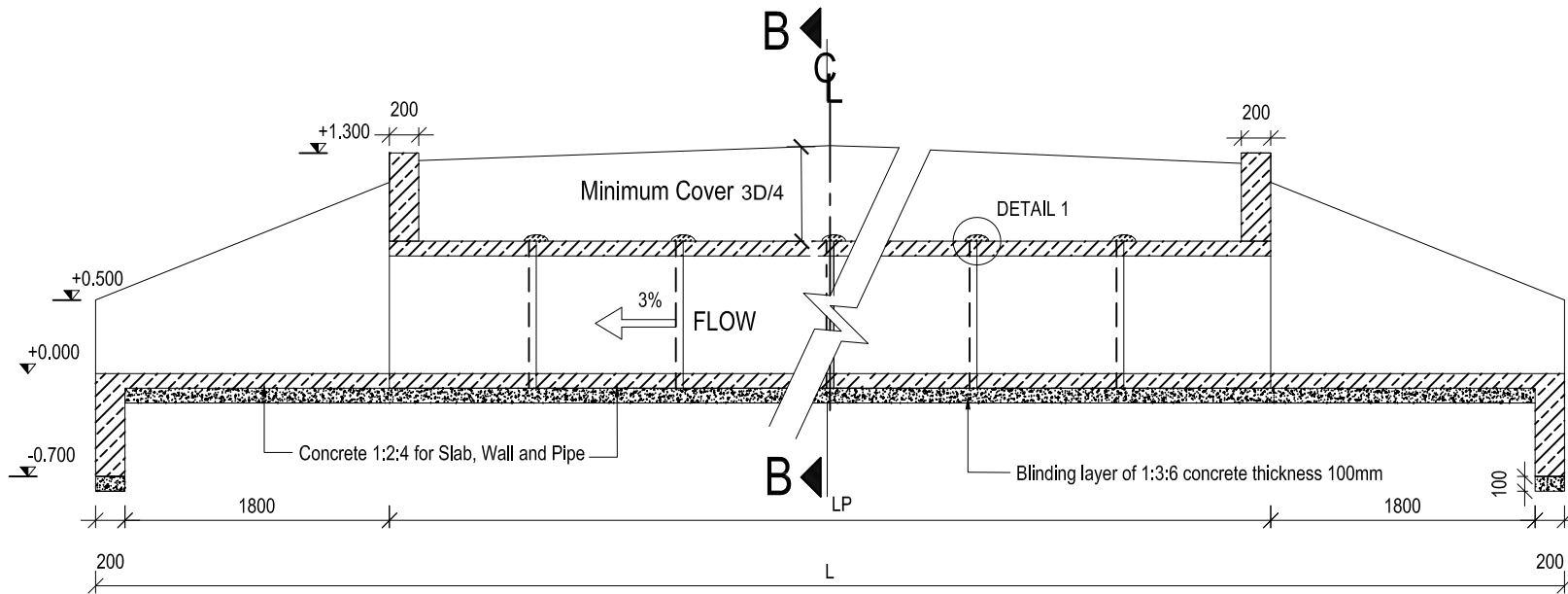


## Notes:

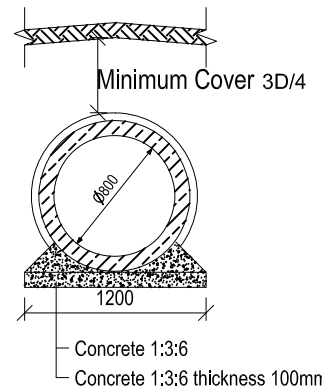
1. All dimensions are in millimeters unless otherwise indicated.
2. All levels are in meters.
3. The drawing shows the embankment for minimum pipe cover  $3D/4$ . For higher embankments the number of pipes and length of culvert shall be increased.
4. SETTING OUT: The culvert invert level 0.000 shall be set at the existing downstream bed level
5. LP is the length of total reinforcement concrete pipes.
6. L is the length of pipe culvert.



# SECTION A-A



## SECTION B-B



## International Labour Organization (ILO)

## COVID-19 Socio-Economic Recovery For Returning Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION:

SINGLE PIPE CULVERT, Ø 0.8m

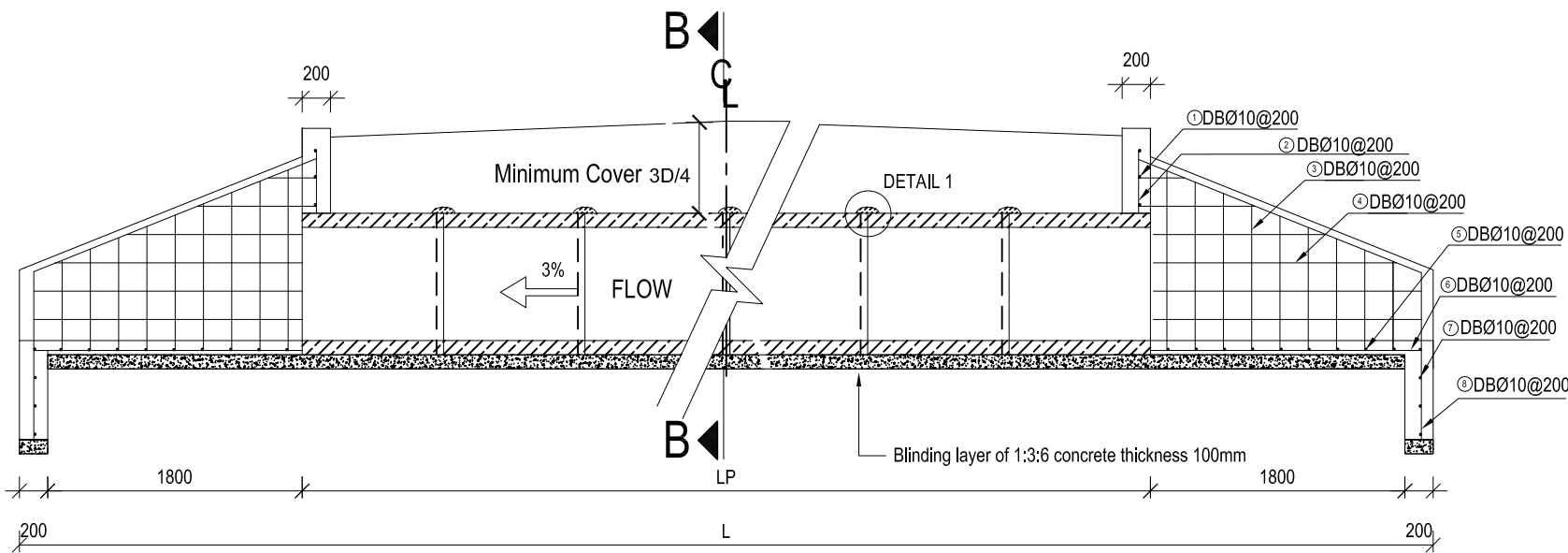
### Plan View, Elevation View and Section View

DRAW BY: NHEP SOPHARA | POSITION: FIELD ENGINEER

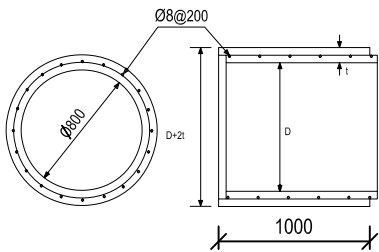
ORIGINAL SIZE: A3	SCALE: 1:50
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SHEET: 1 OF 2 | DATE: 14 MAR 2022

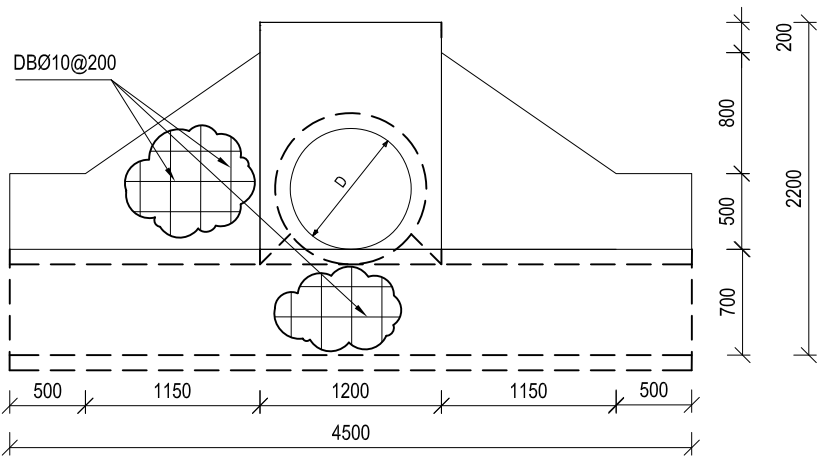
# SIDE VIEW



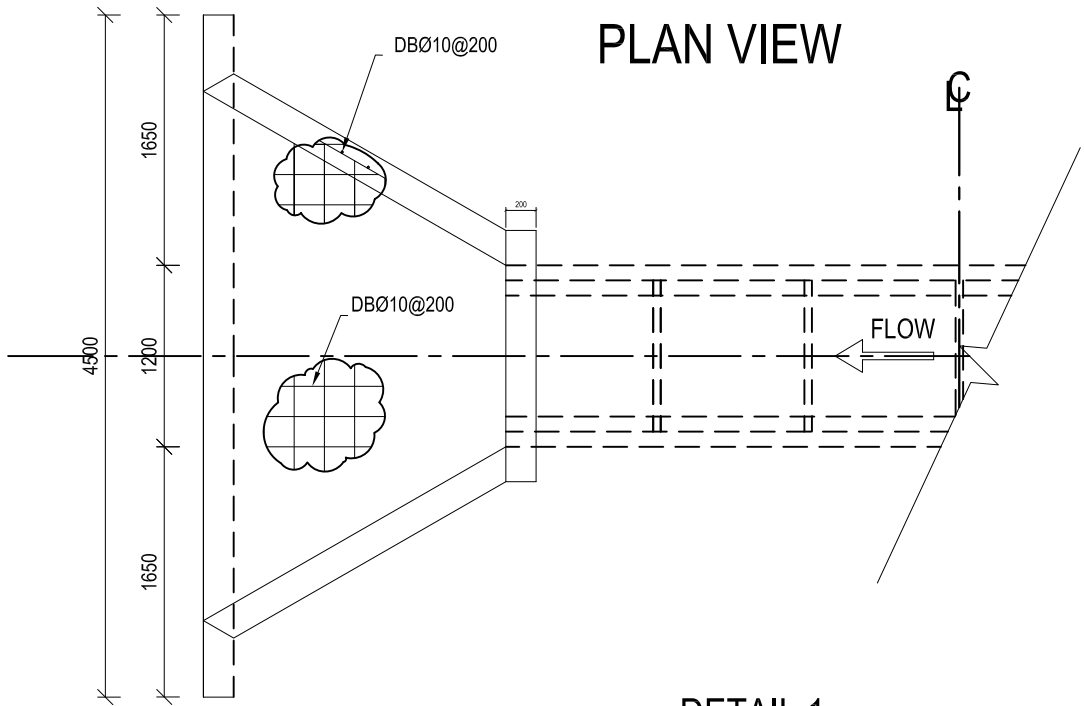
# PIPE REINFORCEMENT



# ELEVATION

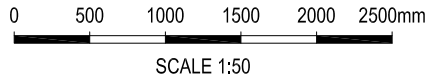


# PLAN VIEW



# Notes:

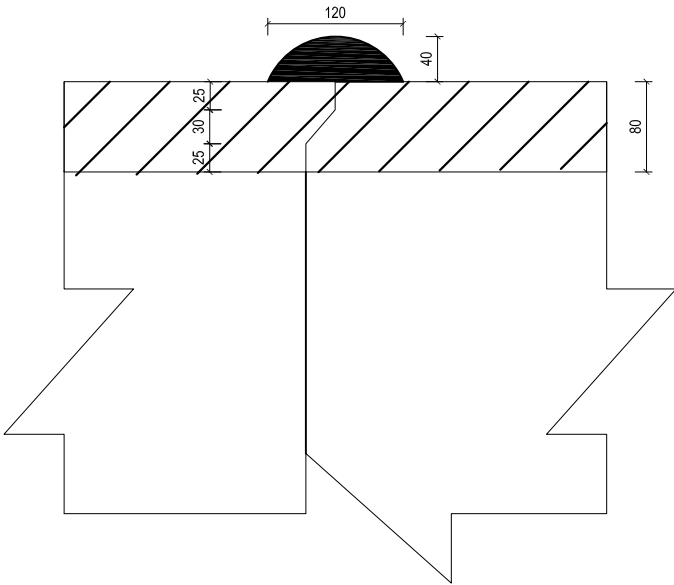
1. All dimensions are in millimeters unless otherwise indicated.
2. All levels are in meters.
3. The drawing shows the embankment for minimum pipe cover 3D/4. For higher embankments the number of pipes and length of culvert shall be increased.
4. SETTING OUT: The culvert invert level 0.000 shall be set at the existing downstream bed level
5. LP is the length of total reinforcement concrete pipes.
6. L is the length of pipe culvert.



# REINFORCEMENT TABLE

ID	TYPE	SHAPE	LENGTH (m)	QUANTITY	TOTAL LENGTH	WEIGHT (kg)
1	DBØ10@200	1200	1.2	8	9.6	5.95
2	DBØ10@200	600	0.6	14	8.4	5.21
3	DBØ10@200	200 550...1270	1.11	40	44.4	27.53
4	DBØ10@200	324...1897	1.314	24	31.53	19.55
5	DBØ10@200	1200...3269	2.246	20	44.92	27.85
6	DBØ10@200	408...1800	1.336	30	40.08	24.85
7	DBØ10@200	4300	4.30	6	25.8	16
8	DBØ10@200	200 600	0.83	46	38.18	23.67
TOTAL WEIGHT (kg)						150.61

# DETAIL 1



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION:

SINGLE PIPE CULVERT, Ø 0.8m

Reinforcement Plan, Section View and Reinforcement Table

DRAW BY: NHEP SOPHARA

POSITION: FIELD ENGINEER

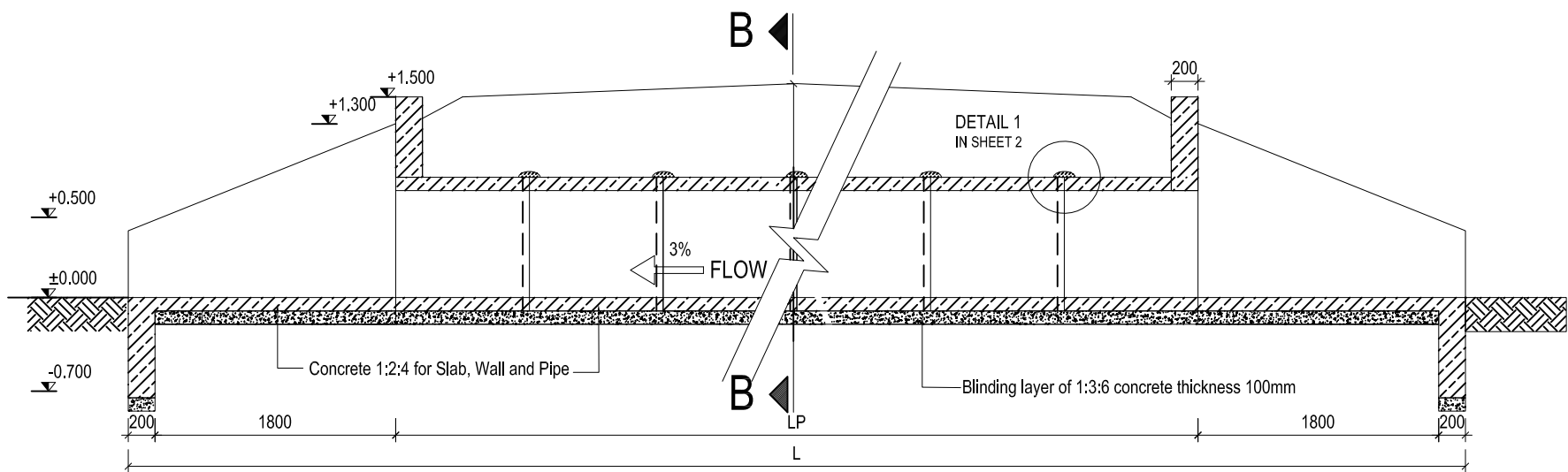
ORIGINAL SIZE: A3

SCALE: 1:50

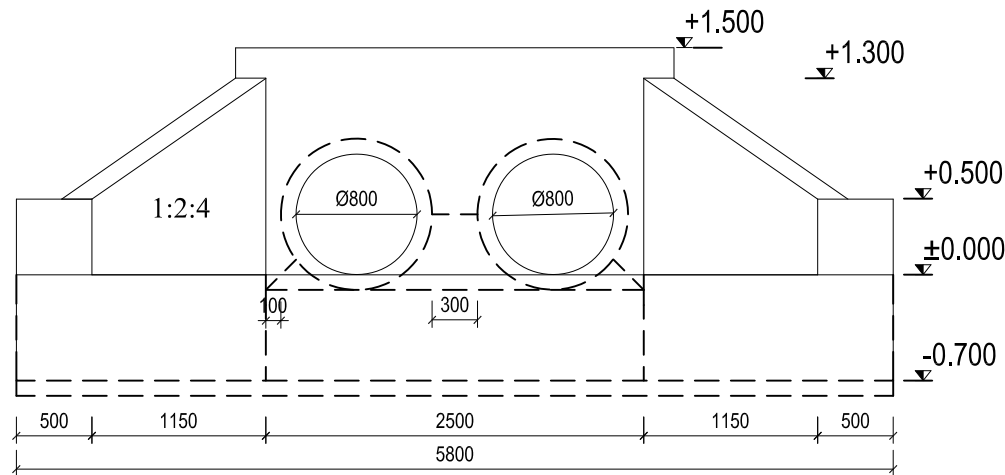
SHEET: 2 OF 2

DATE: 14 MAR 2022

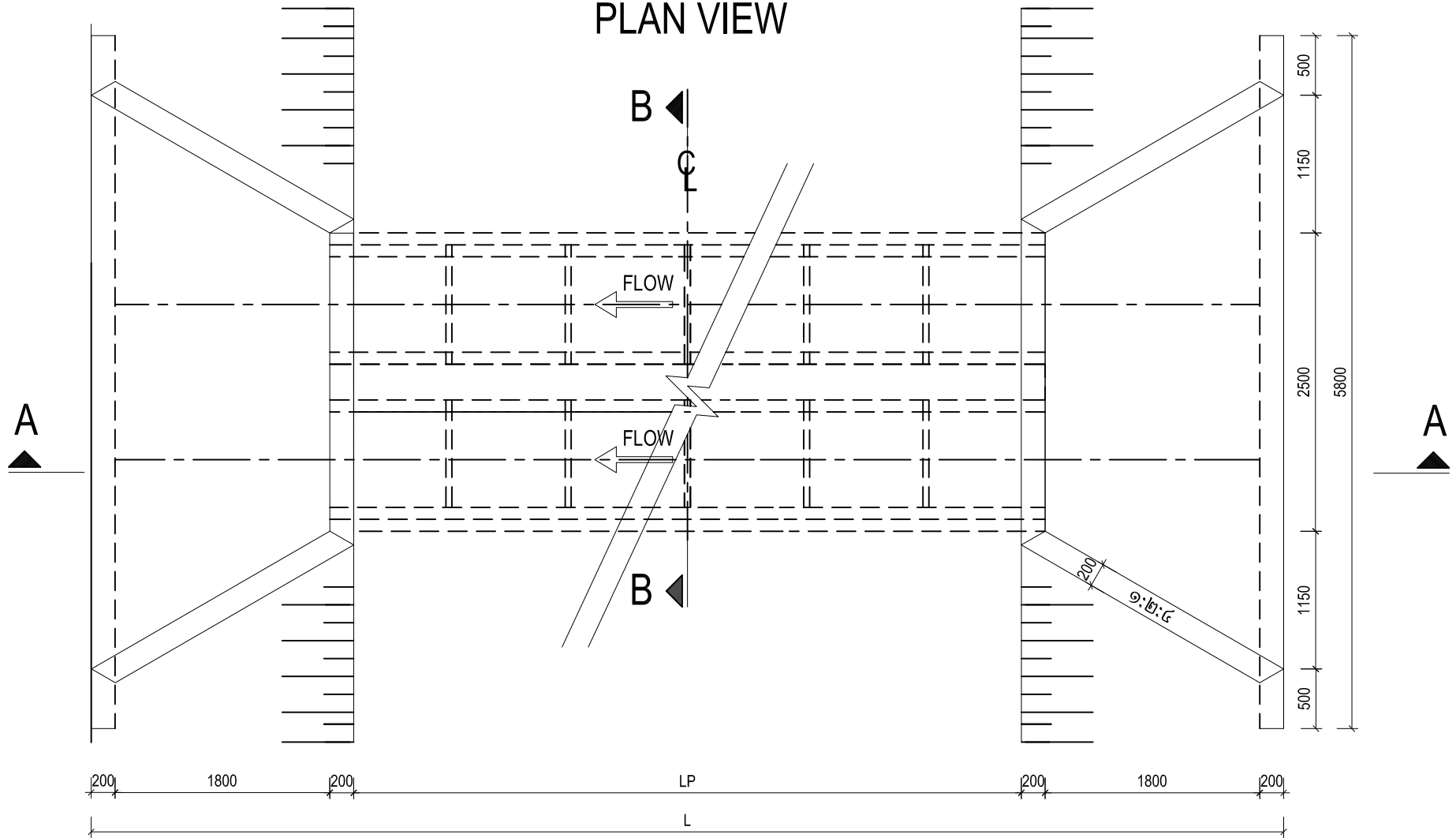
SECTION A-A



ELEVATION

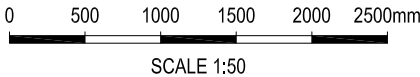


PLAN VIEW



Notes:

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2. All levels are in meters.
3. The drawing shows the embankment for minimum pipe cover 3D/4. For higher embankments the number of pipes and length of culvert shall be increased.
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International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION:

DOUBLE PIPE CULVERT, Ø 0.8m

Plan View, Elevation View and Section View

DRAW BY: NHEP SOPHARA

POSITION: FIELD ENGINEER

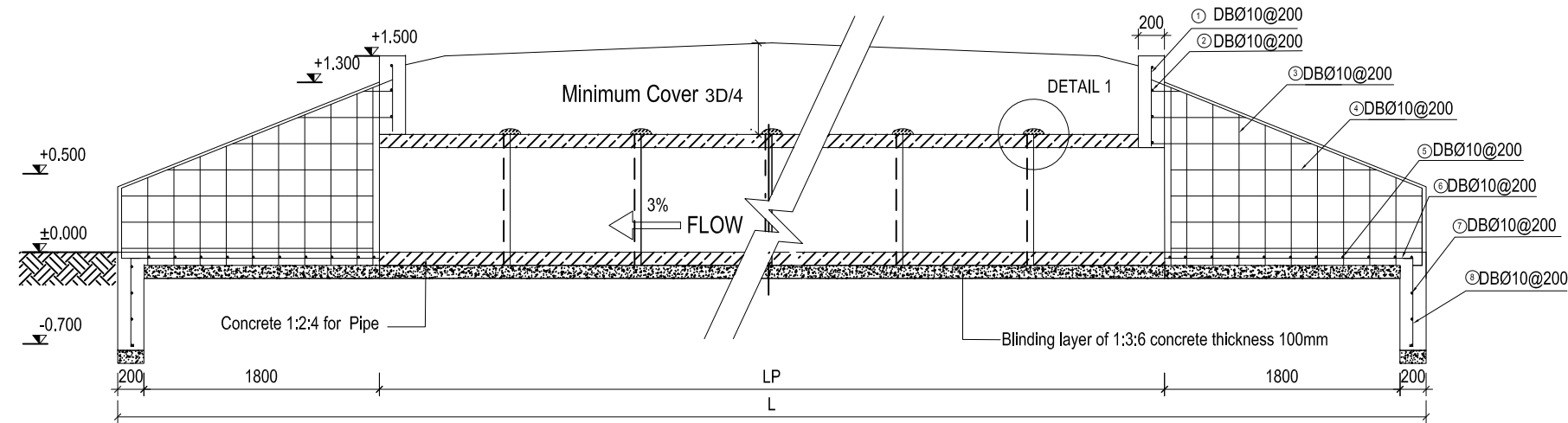
ORIGINAL SIZE: A3

SCALE: 1:50

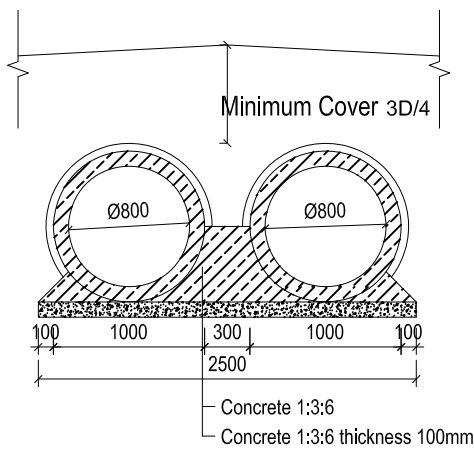
SHEET: 1 OF 2

DATE: 14 MAR 2022

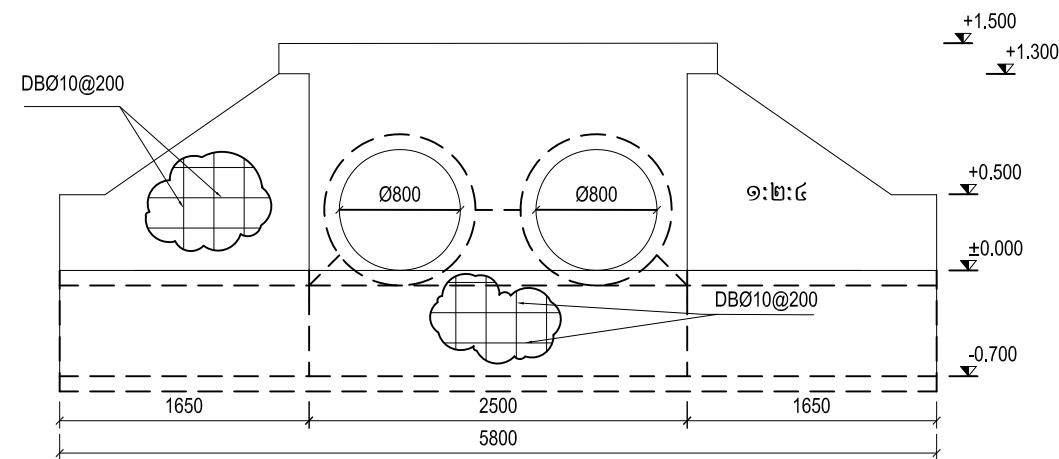
SIDE VIEW



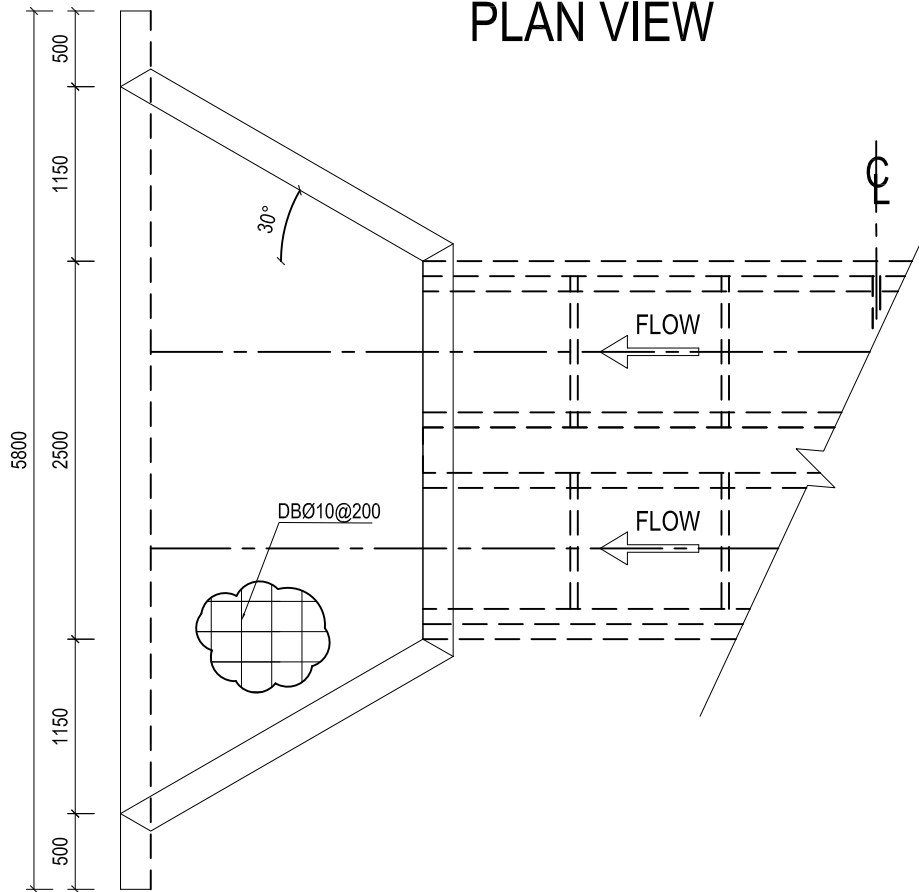
SECTION B-B



ELEVATION

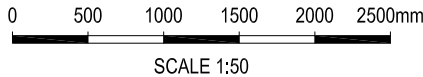


PLAN VIEW



Notes:

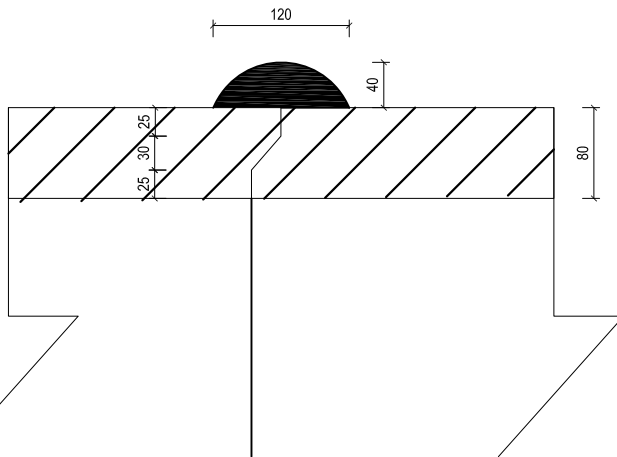
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2. All levels are in meters.
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REINFORCEMENT TABLE

ID	TYPE	SHAPE	LENGTH (m)	QUANTITY	TOTAL LENGTH	WEIGHT (kg)
1	DBØ10@200	620	0.62	26	16.12	10
2	DBØ10@200	2500	2.5	6	15	9.3
3	DBØ10@200	200 550...1270	1.11	40	44.4	27.53
4	DBØ10@200	324...1897	1.314	24	31.53	19.55
5	DBØ10@200	2500...4577	3.538	20	70.76	43.87
6	DBØ10@200	353...2000	1.586	46	72.956	45.23
7	DBØ10@200	5800	5.80	6	34.8	21.58
8	DBØ10@200	200 630	0.83	46	38.18	23.67
TOTAL WEIGHT (kg)						200.73

DETAIL 1



International Labour  
Organization (ILO)

COVID-19 Socio-Economic Recovery For Returning  
Migrants and Host Communities in North West Cambodia

OUTPUT LOCATION:

DOUBLE PIPE CULVERT, Ø 0.8m

Reinforcement Plan, Section View and Reinforcement Table

DRAW BY: NHEP SOPHARA POSITION: FIELD ENGINEER

ORIGINAL SIZE: A3 SCALE: 1:50

SHEET: 2 OF 2 DATE: 14 MAR 2022



In Khmer  
Covid-19 socio-economic recovery for returning migrants and host communities in North West Cambodia



International  
Labour  
Organization



ព្រះរាជាណាចក្រកម្ពុជា  
Ministry of Interior



In Khmer

Project: Construction of concrete culverts in .....Commune, Pouk District

Khmer

Funded by: Ministry of Foreign Affairs and Trades (MFAT), Government of New Zealand

Khmer

Government Partners: Ministry of interior & Ministry of Labour and Vocational Training Labour,

Khmer

Implemented by: International Labour Organization

Contractor:  
Year: 2022

Logo of Contractor

