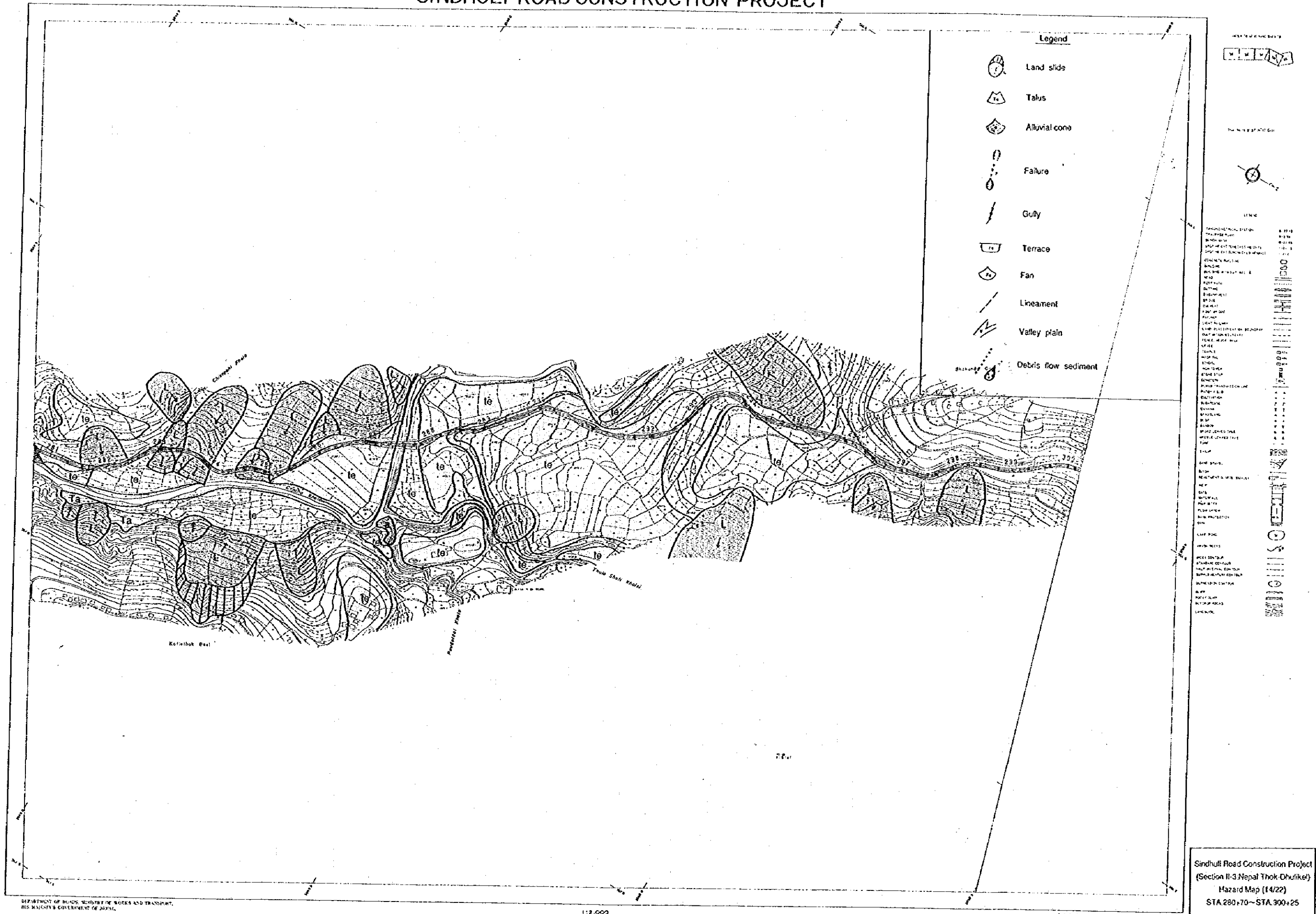


Legend

- Land slide
- Talus
- Alluvial cone
- Failure
- Gully
- Terrace
- Fan
- Lineament
- Valley plain
- Debris flow sediment

Sindhuli Road Construction Project
 (Section II-3 Nepal Thak-Dhulekeli)
 Hazard Map (13/22)
 STA 256+95 ~ STA 280+70

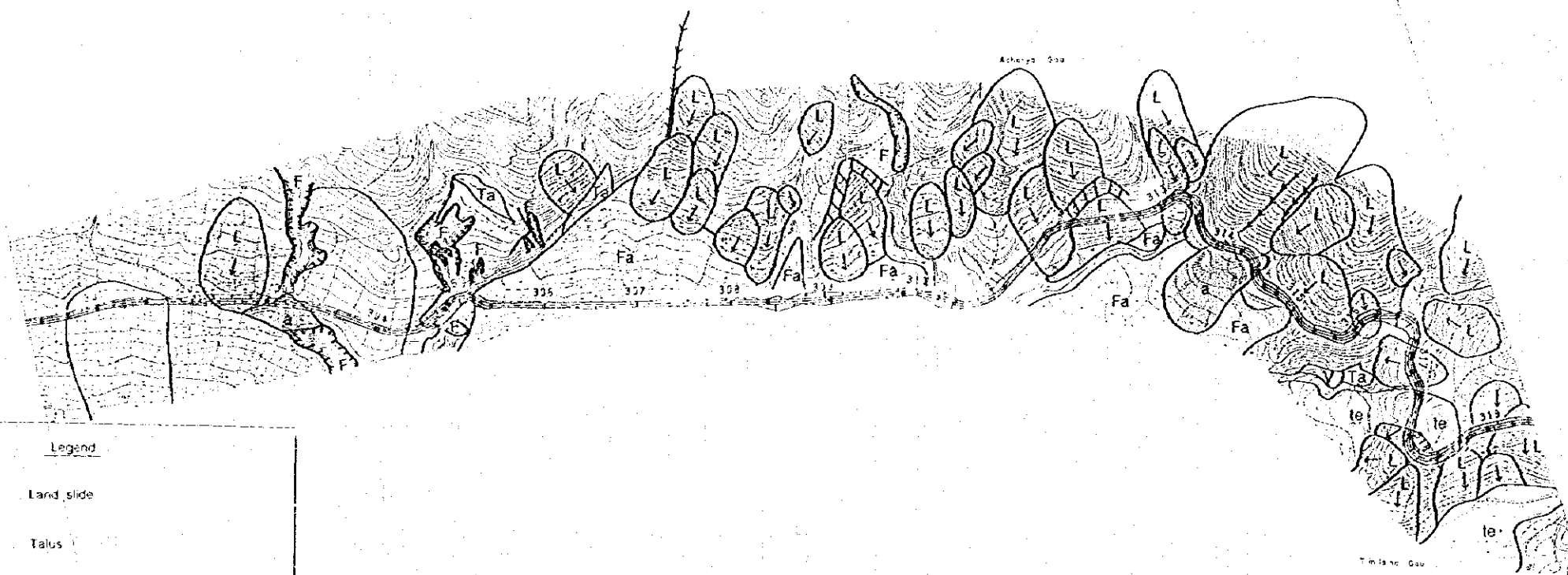
SINDHULI ROAD CONSTRUCTION PROJECT



- Legend**
- Land slide
 - Talus
 - Alluvial cone
 - Failure
 - Gully
 - Terrace
 - Fan
 - Lineament
 - Valley plain
 - Debris flow sediment

Sindhuli Road Construction Project
 (Section II-3 Nepal Thok Dhulikel)
 Hazard Map (14/22)
 STA 280+70~STA 300+25

1:2,000
 NOTATION
 SPANNO - 100 METERS
 DASHED LINE - 50 METERS
 DOTTED LINE - 25 METERS
 SOLID LINE - 10 METERS



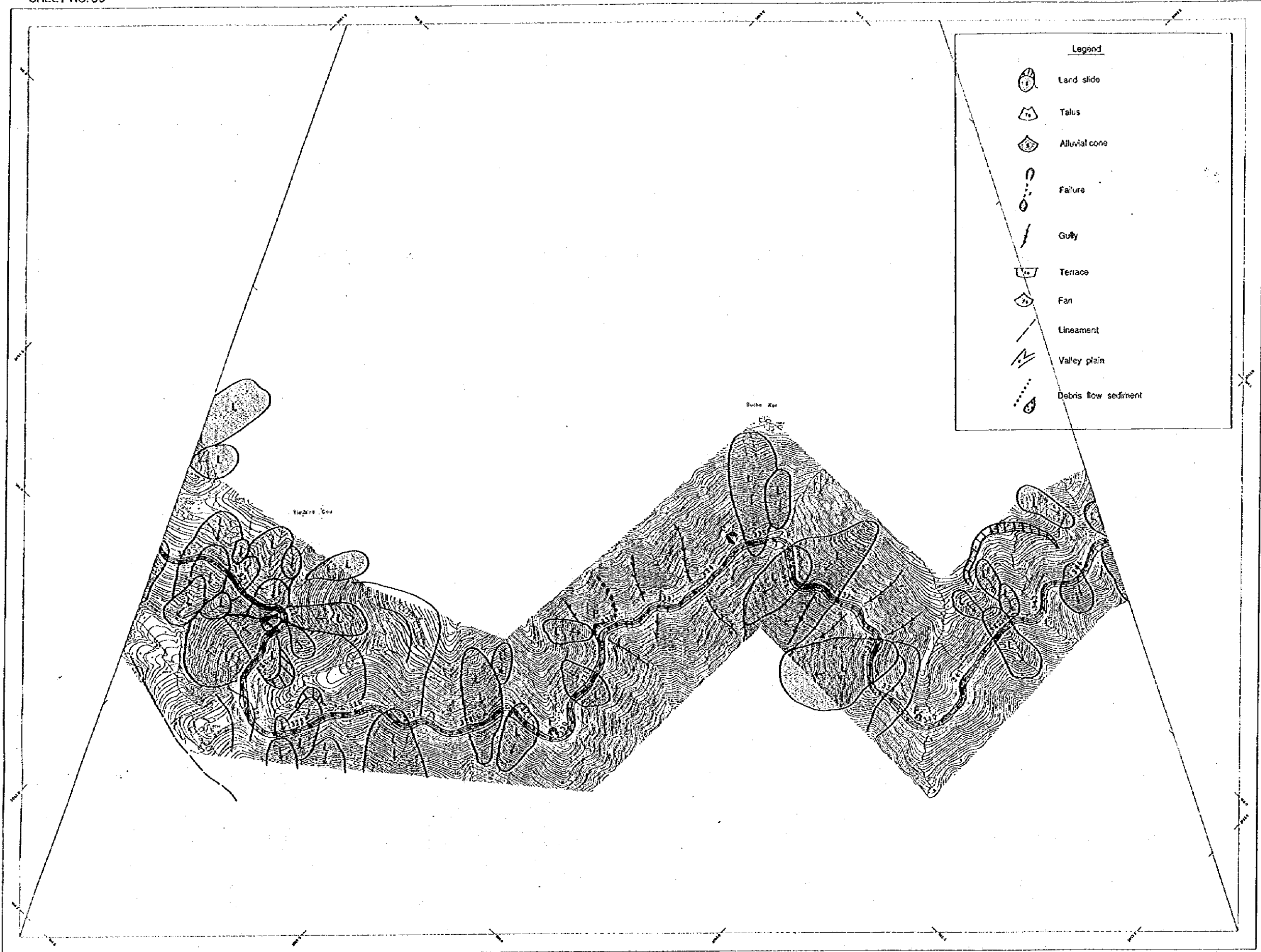
Legend	
	Land slide
	Talus
	Alluvial cone
	Failure
	Gully
	Terrace
	Fan
	Lineament
	Valley plain
	Debris flow sediment

Sindhuli Road Construction Project
 (Section II-3 Nepal Trek-Dhulikel)
 Hazard Map (1:5000)
 STA. 309+25 ~ STA. 319+45

1:2,000
 HORIZONTAL
 1:2,000
 VERTICAL

Legend	
	Road
	River
	Contour
	Gully
	Talus
	Alluvial cone
	Failure
	Gully
	Terrace
	Fan
	Lineament
	Valley plain
	Debris flow sediment

SINDHULI ROAD CONSTRUCTION PROJECT



Legend

- Land slide
- Talus
- Alluvial cone
- Failure
- Gully
- Terrace
- Fan
- Lineament
- Valley plain
- Debris flow sediment

WITH THE NEAREST SHEETS

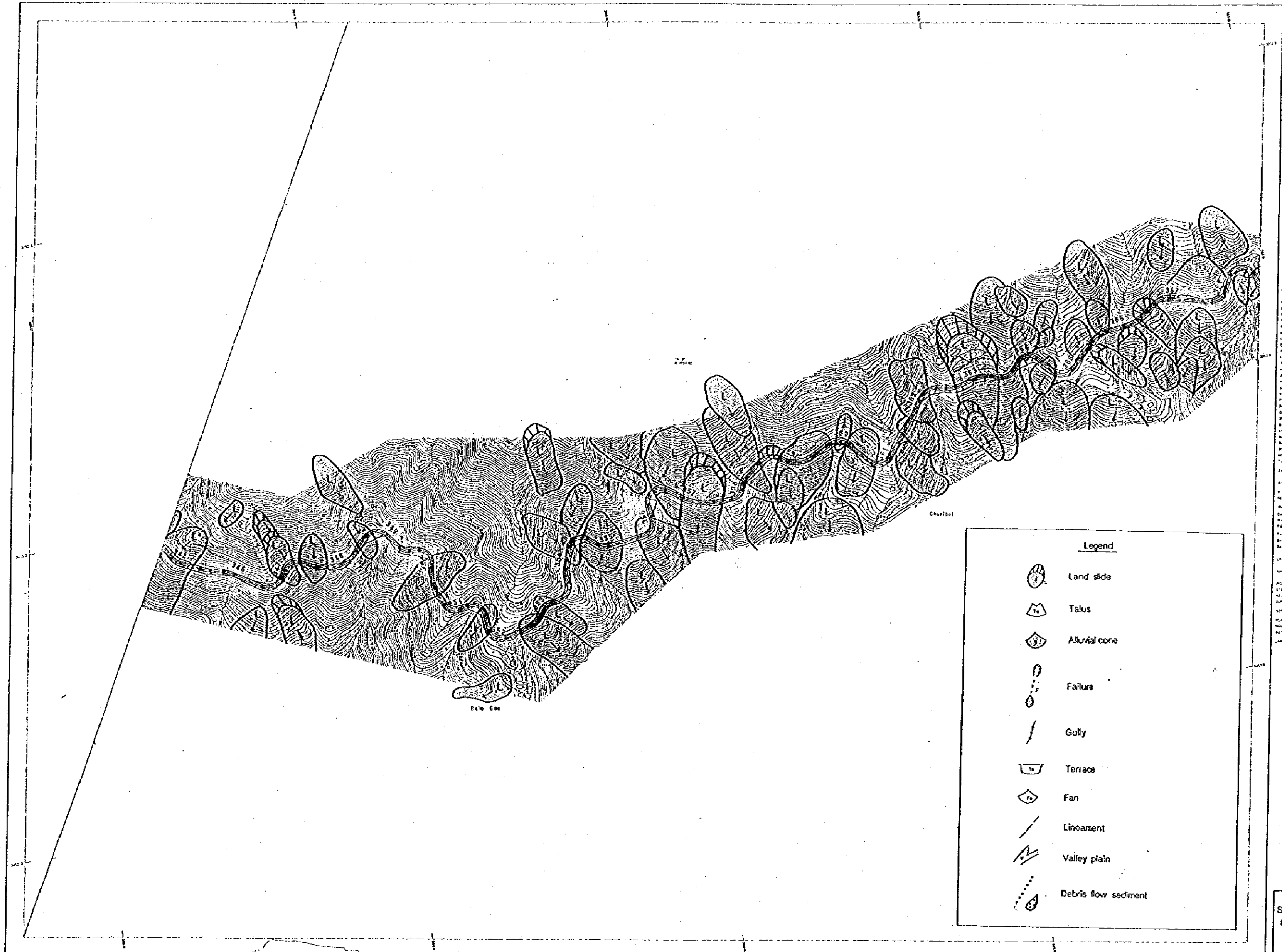
TO THE NEAREST SHEETS

LEGEND

PROPOSED ROAD STATION	8+77.00
TRAVELING ROAD	8+73.00
WATER CANAL	8+72.00
ROAD AND CATCHMENT DRAIN	8+71.00
ROAD AND CATCHMENT DRAIN	8+70.00
ROAD AND CATCHMENT DRAIN	8+69.00
ROAD AND CATCHMENT DRAIN	8+68.00
ROAD AND CATCHMENT DRAIN	8+67.00
ROAD AND CATCHMENT DRAIN	8+66.00
ROAD AND CATCHMENT DRAIN	8+65.00
ROAD AND CATCHMENT DRAIN	8+64.00
ROAD AND CATCHMENT DRAIN	8+63.00
ROAD AND CATCHMENT DRAIN	8+62.00
ROAD AND CATCHMENT DRAIN	8+61.00
ROAD AND CATCHMENT DRAIN	8+60.00
ROAD AND CATCHMENT DRAIN	8+59.00
ROAD AND CATCHMENT DRAIN	8+58.00
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ROAD AND CATCHMENT DRAIN	8+51.00
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ROAD AND CATCHMENT DRAIN	8+49.00
ROAD AND CATCHMENT DRAIN	8+48.00
ROAD AND CATCHMENT DRAIN	8+47.00
ROAD AND CATCHMENT DRAIN	8+46.00
ROAD AND CATCHMENT DRAIN	8+45.00
ROAD AND CATCHMENT DRAIN	8+44.00
ROAD AND CATCHMENT DRAIN	8+43.00
ROAD AND CATCHMENT DRAIN	8+42.00
ROAD AND CATCHMENT DRAIN	8+41.00
ROAD AND CATCHMENT DRAIN	8+40.00
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ROAD AND CATCHMENT DRAIN	8+6.00
ROAD AND CATCHMENT DRAIN	8+5.00
ROAD AND CATCHMENT DRAIN	8+4.00
ROAD AND CATCHMENT DRAIN	8+3.00
ROAD AND CATCHMENT DRAIN	8+2.00
ROAD AND CATCHMENT DRAIN	8+1.00
ROAD AND CATCHMENT DRAIN	8+0.00

Sindhuli Road Construction Project
 (Section II-3, Nepal Thok-Dhulikel)
 Hazard Map (16/22)
 STA.319+45~STA.344+60

SINDHULI ROAD CONSTRUCTION PROJECT



Legend

	Land slide
	Talus
	Alluvial cone
	Failure
	Gully
	Terrace
	Fan
	Lineament
	Valley plain
	Debris flow sediment

N

1:2000

SINDHULI ROAD CONSTRUCTION PROJECT

HAZARD MAP (17/22)

STA 344+60 - STA 358+80

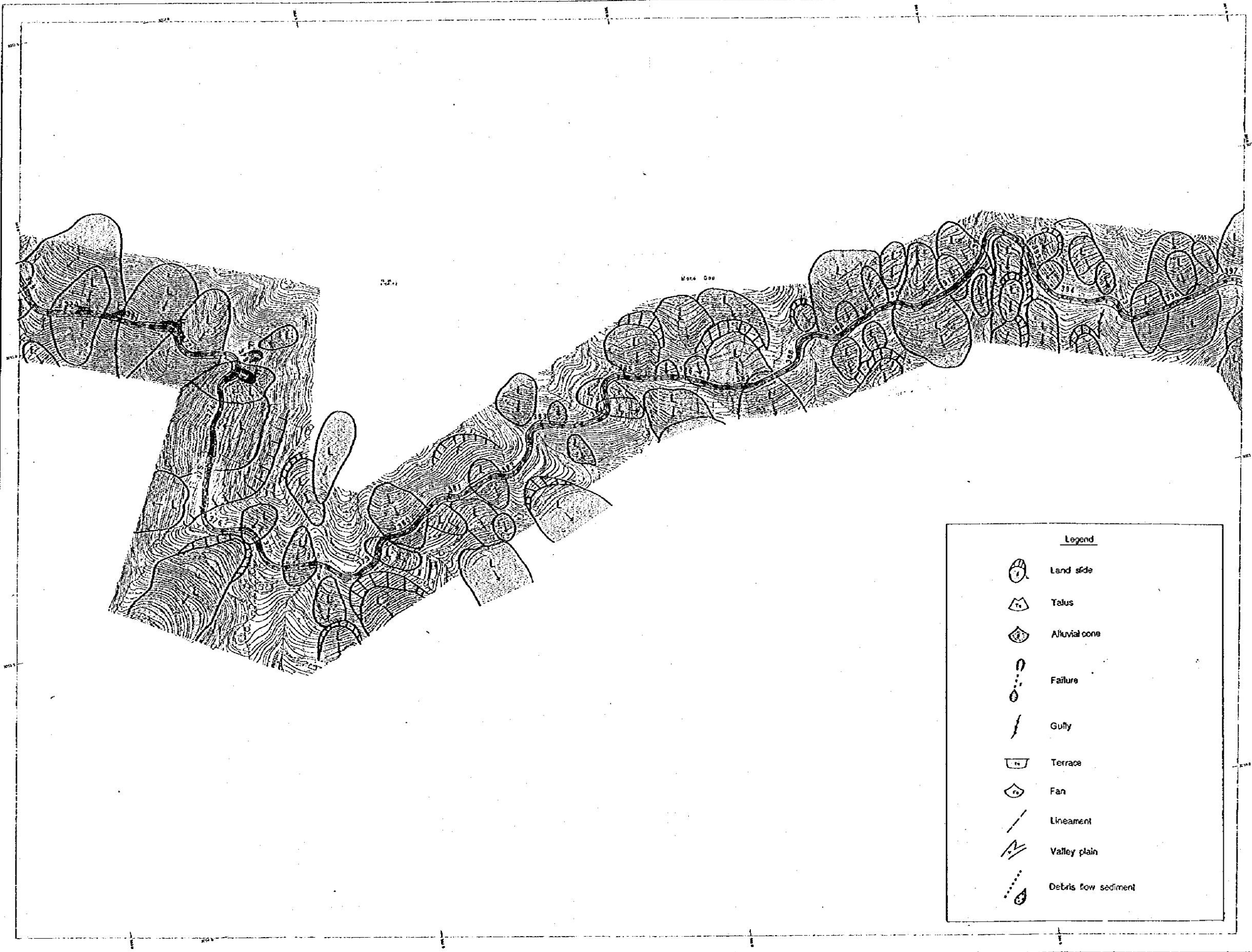
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SINDHULI ROAD CONSTRUCTION PROJECT

HAZARD MAP (17/22)

STA 344+60 - STA 358+80

SINDHULI ROAD CONSTRUCTION PROJECT



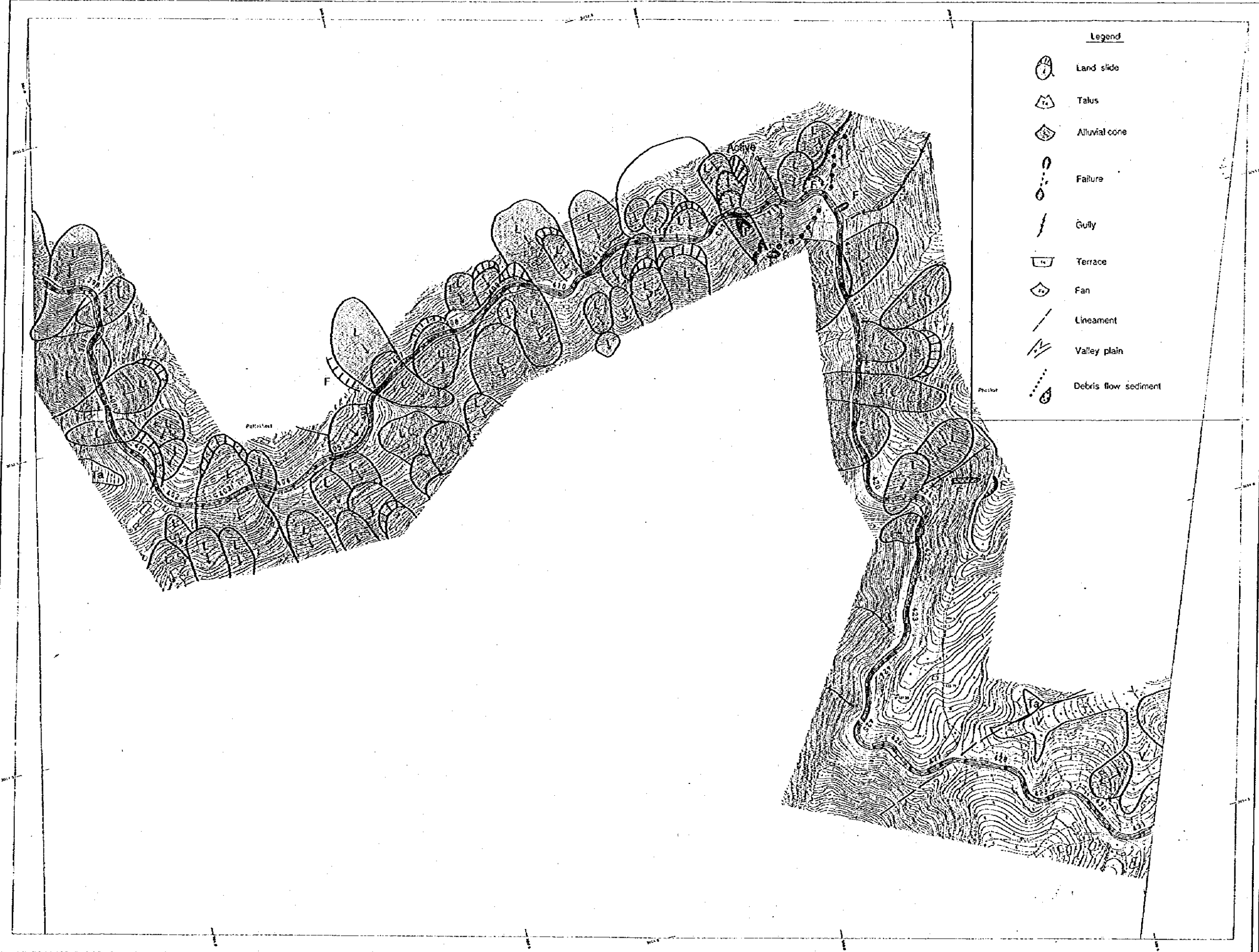
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 North Arrow

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1:2000	1:1000	1:500	1:250	1:100	1:50	1:25	1:10	1:5	1:2	1:1
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1:2000	1:1000	1:500	1:250	1:100	1:50	1:25	1:10	1:5	1:2	1:1

Legend

	Land slide
	Talus
	Alluvial cone
	Failure
	Gully
	Terrace
	Fan
	Lineament
	Valley plain
	Debris flow sediment

SINDHULI ROAD CONSTRUCTION PROJECT



- Legend**
- Land slide
 - Talus
 - Alluvial cone
 - Failure
 - Gully
 - Terrace
 - Fan
 - Lineament
 - Valley plain
 - Debris flow sediment

PHOTO POINT

PROJECTION: UTM

SCALE: 1:2,000

VERTICAL DATUM: B.S. 1985

HORIZONTAL DATUM: Everest

UNIT: METERS

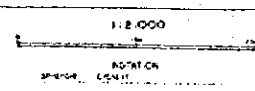
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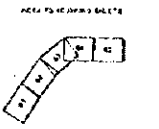
PROJECT: SINDHULI ROAD CONSTRUCTION PROJECT

SECTION: II-3 (Nepal Thok-Dhulike)

HAZARD MAP (19/22)

STA. 397+20 ~ STA. 431+15















THE NEPAL STATE



LEGEND

THEODOLITE STATION	□ 11.12
TRAVELERS REST	□ 11.13
POST HOUSE	□ 11.14
POST OFFICE	□ 11.15
POSTAL TELEGRAPH OFFICE	□ 11.16
POSTAL STATION	□ 11.17
RAILWAY	□ 11.18
RAILWAY BRANCH	□ 11.19
RAILWAY CREST	□ 11.20
RAILWAY JUNCTION	□ 11.21
RAILWAY LOOP	□ 11.22
RAILWAY PLATFORM	□ 11.23
RAILWAY SIGN	□ 11.24
RAILWAY TOWER	□ 11.25
RAILWAY WATER TOWER	□ 11.26
RAILWAY YARD	□ 11.27
RAILWAY ZONE	□ 11.28
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RAILWAY VIADUCT	□ 11.31
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RAILWAY OVERPASS	□ 11.33
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RAILWAY BRIDGE	□ 11.39
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RAILWAY OVERPASS	□ 11.43
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RAILWAY TELEGRAPH	□ 11.75
RAILWAY WATER TOWER	□ 11.76
RAILWAY YARD	□ 11.77
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RAILWAY BRIDGE	□ 11.79
RAILWAY TUNNEL	□ 11.80
RAILWAY VIADUCT	□ 11.81
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RAILWAY OVERPASS	□ 11.83
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RAILWAY VIADUCT	□ 11.91
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RAILWAY OVERPASS	□ 11.93
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RAILWAY VIADUCT	□ 12.21
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RAILWAY OVERPASS	□ 12.23
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RAILWAY TELEGRAPH	□ 12.25
RAILWAY WATER TOWER	□ 12.26
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RAILWAY VIADUCT	□ 12.31
RAILWAY UNDERPASS	□ 12.32
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RAILWAY SIGNAL	□ 12.34
RAILWAY TELEGRAPH	□ 12.35
RAILWAY WATER TOWER	□ 12.36
RAILWAY YARD	□ 12.37
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RAILWAY BRIDGE	□ 12.39
RAILWAY TUNNEL	□ 12.40
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RAILWAY OVERPASS	□ 12.43
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RAILWAY TELEGRAPH	□ 12.45
RAILWAY WATER TOWER	□ 12.46
RAILWAY YARD	□ 12.47
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RAILWAY BRIDGE	□ 12.49
RAILWAY TUNNEL	□ 12.50
RAILWAY VIADUCT	□ 12.51
RAILWAY UNDERPASS	□ 12.52
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RAILWAY TELEGRAPH	□ 12.55
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RAILWAY YARD	□ 12.57
RAILWAY ZONE	□ 12.58
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RAILWAY TUNNEL	□ 12.90
RAILWAY VIADUCT	□ 12.91
RAILWAY UNDERPASS	□ 12.92
RAILWAY OVERPASS	□ 12.93
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RAILWAY WATER TOWER	□ 12.96
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RAILWAY BRIDGE	□ 12.99
RAILWAY TUNNEL	□ 13.00

Legend

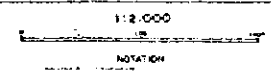
-  Land slide
-  Talus
-  Alluvial cone
-  Failure
-  Gully
-  Terrace
-  Fan
-  Lineament
-  Valley plain
-  Debris flow sediment

Durda Gov

Mahol Gov

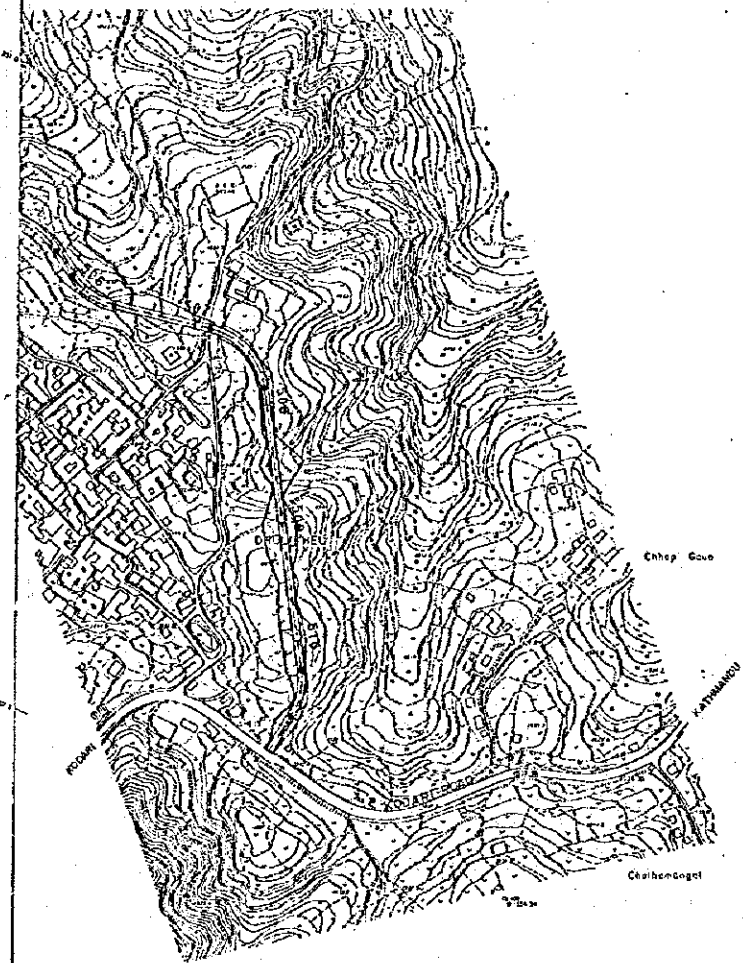
Chap Gov

705

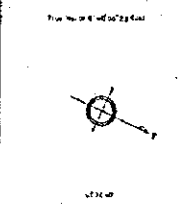
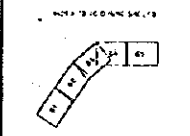


Sindhuli Road Construction Project
 (Section II-3: Nepal Thok-Dhulikeh)
 Hazard Map(21/22)
 STA.458+20-STA.505+20

SINDHULI ROAD CONSTRUCTION PROJECT



Legend	
	Land slide
	Talus
	Alluvial cone
	Failure
	Gully
	Terrace
	Fan
	Lineament
	Valley plain
	Debris flow sediment



PROPOSED ROAD	1:200
EXISTING ROAD	1:200
RAILWAY	1:200
BOUNDARY	1:200
SETBACK	1:200
...	...

資料編 G

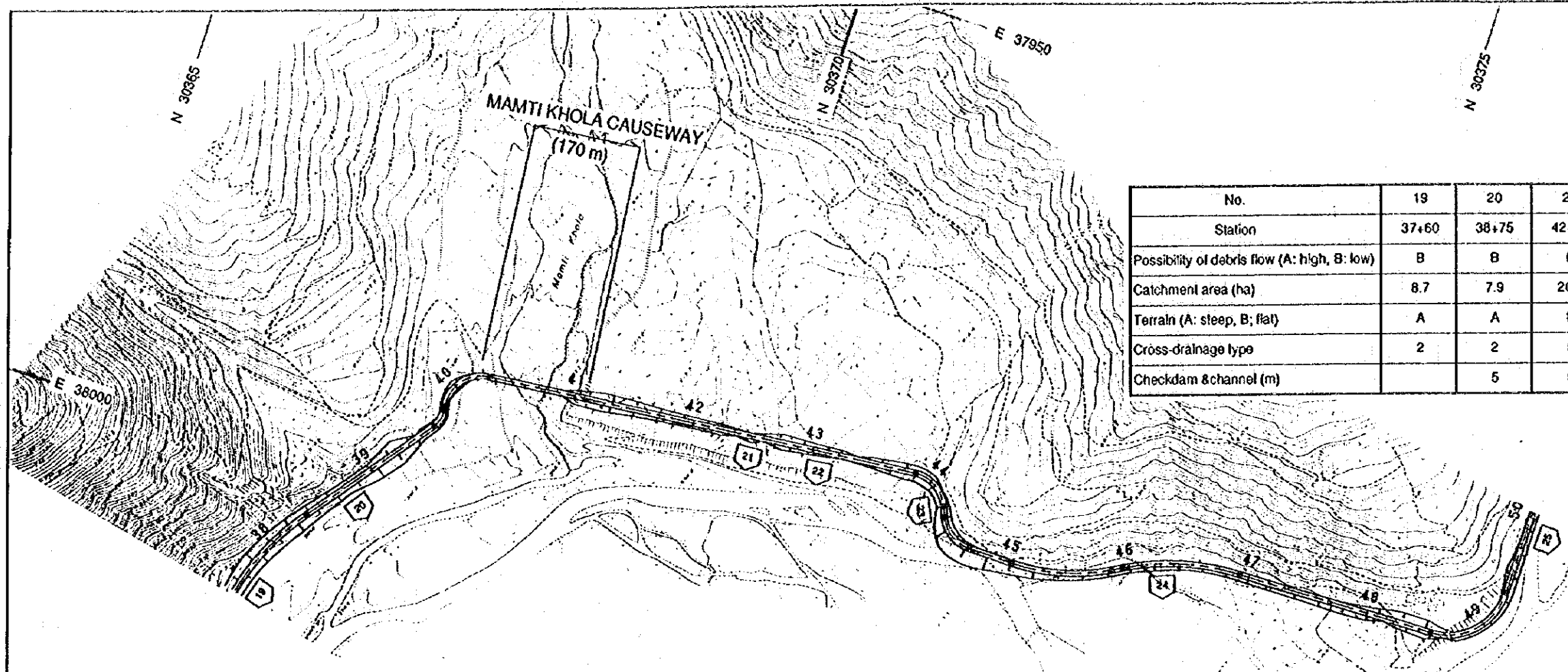
横断水路概略計画図

CONTENTS

Location and Type of Cross Drainage to be applied	G-1-1 ~ G-1-41
Standard Plan of Cross Drainages	G-2-1 ~ G-2-5

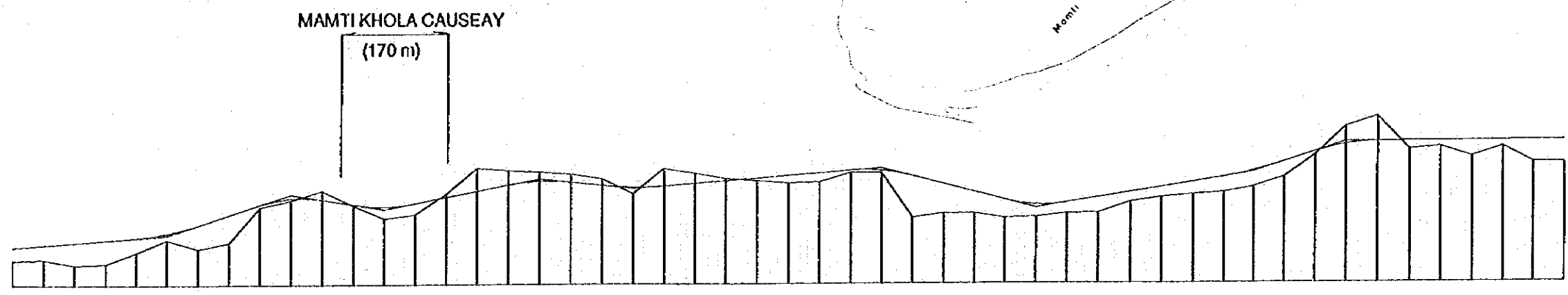
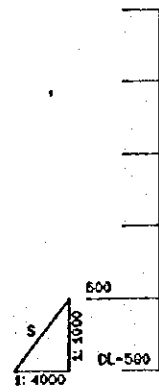
G-1 LOCATION AND TYPE OF CROSS DRAINAGE TO BE APPLIED

G-1-4: Location and Type of Cross Drainage to be applied STA.37+50~STA.50+00



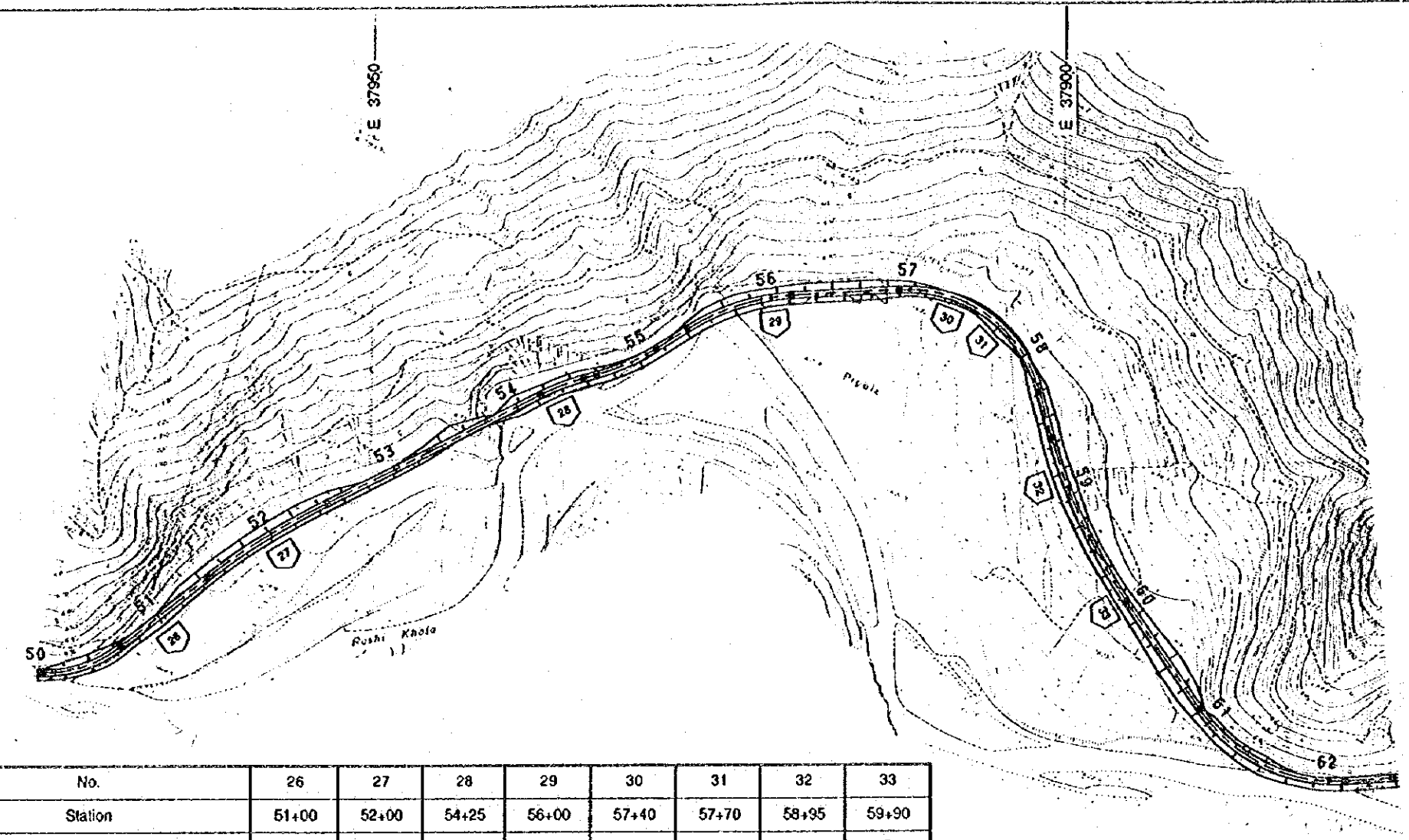
No.	19	20	21	22	23	24	25
Station	37+60	38+75	42+50	43+05	44+20	46+25	49+75
Possibility of debris flow (A: high, B: low)	B	B	B	B	B	B	B
Catchment area (ha)	8.7	7.9	20.3	18.1	19.5	5.6	0.6
Terrain (A: steep, B: flat)	A	A	B	B	B	A	A
Cross-drainage type	2	2	5	5	5	2	2
Checkdam & channel (m)		5	5	5	5		

- Regard: Cross Drainage Type
1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Slab culvert (4m)



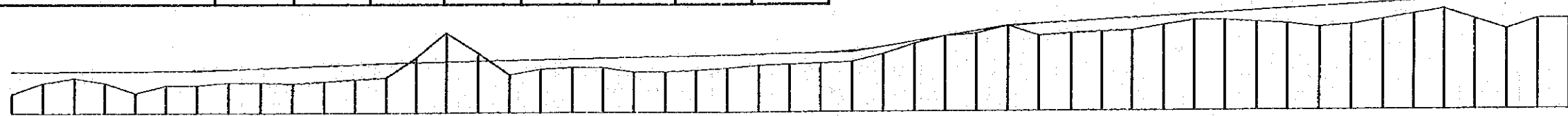
GRADE																																																												
PROPOSED HEIGHT	597.55	598.00	598.50	599.00	599.50	600.38	602.00	604.00	605.50	606.80	607.25	608.00	608.70	609.00	609.25	609.40	609.80	610.35	611.00	610.35	609.87	609.00	609.20	609.50	609.80	610.00	610.50	611.00	611.50	612.00	612.30	612.47	613.00	611.40	609.80	608.20	606.80	605.85	605.00	603.90	608.00	607.00	606.10	606.00	609.00	607.00	610.00	611.00	612.20	614.00	615.00	617.51	616.04	618.06	618.12	618.15	618.15	618.23	618.80	619.27
GROUND HEIGHT	594.90	595.10	594.00	594.20	595.50	599.00	597.20	598.40	605.50	606.80	607.25	608.00	608.70	609.00	609.25	609.40	609.80	610.35	611.00	610.35	609.87	609.00	609.20	609.50	609.80	610.00	610.50	611.00	611.50	612.00	612.30	612.47	613.00	609.80	608.20	606.80	605.85	605.00	603.90	608.00	607.00	606.10	606.00	609.00	607.00	610.00	611.00	612.20	614.00	615.00	617.51	616.04	618.06	618.12	618.15	618.15	618.23	618.80	619.27	
STATION	37+50	37+75	38	38+25	38+50	38+75	39	39+25	39+50	39+75	40	40+25	40+50	40+75	41	41+25	41+50	41+75	42	42+25	42+50	42+75	43	43+25	43+50	43+75	44	44+25	44+50	44+75	45	45+25	45+50	45+75	46	46+25	46+50	46+75	47	47+25	47+50	47+75	48	48+25	48+50	48+75	49	49+25	49+50	49+75	50									
CURVE ELEMENT																																																												

G-1-5: Location and Type of Cross Drainage to be applied STA.50+00~STA.62+50



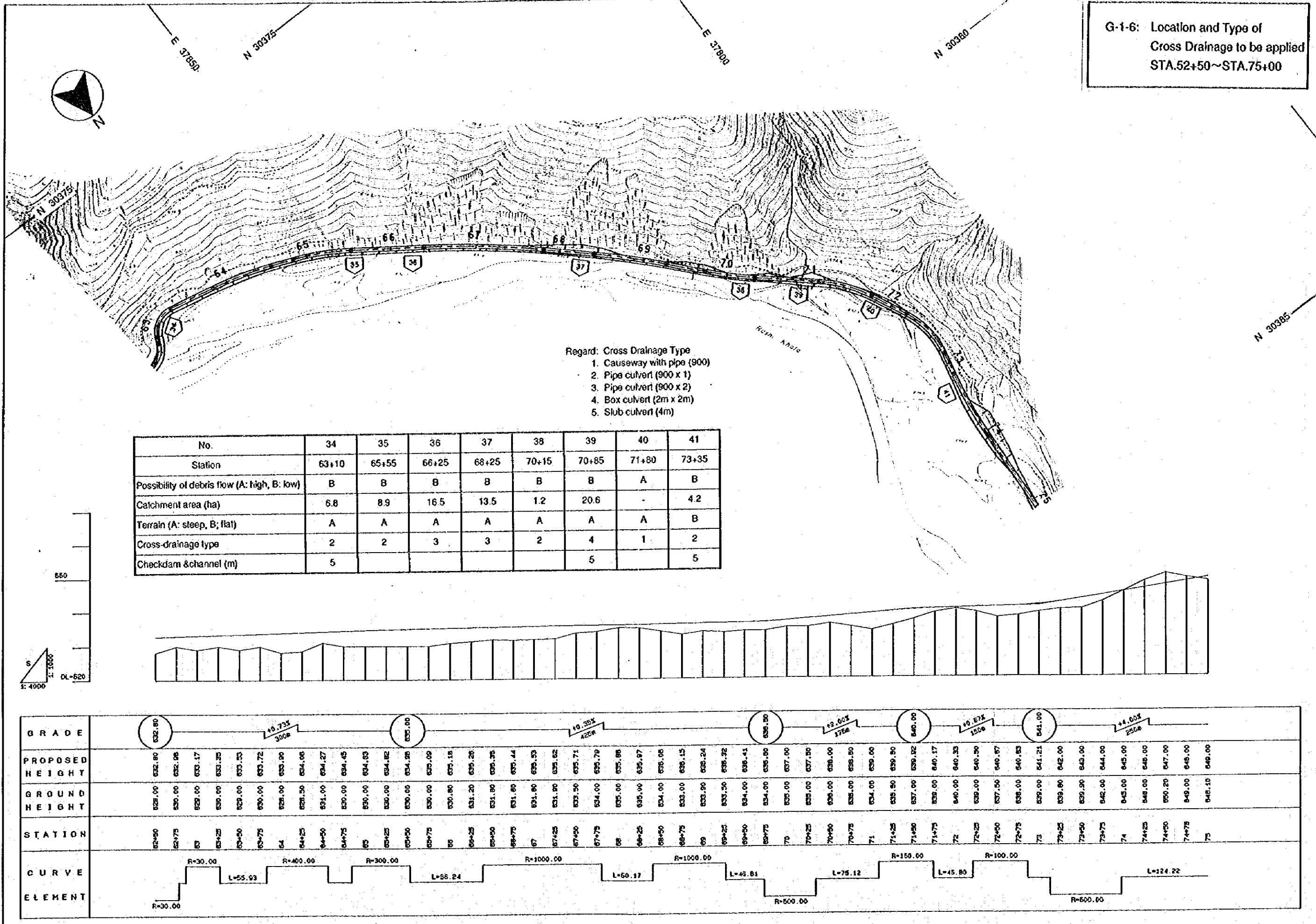
No.	26	27	28	29	30	31	32	33
Station	51+00	52+00	54+25	56+00	57+40	57+70	58+95	59+90
Possibility of debris flow (A: high, B: low)	B	B	B	B	B	B	B	B
Catchment area (ha)	0.6	4.6	4.0	8.8	9.5	10.1	14.8	7.7
Terrain (A: steep, B: flat)	A	A	A	A	B	B	B	B
Cross-drainage type	2	2	2	2	3	3	3	2
Checkdam & channel (m)					6	6		

- Regard: Cross Drainage Type
1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Slub culvert (4m)



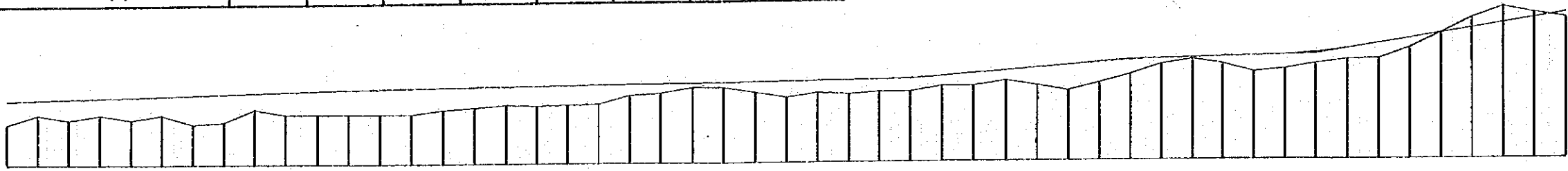
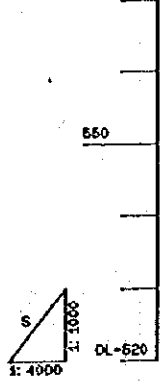
GRADE																																																														
PROPOSED HEIGHT	618.27	618.31	618.35	618.38	618.42	618.45	618.50	618.55	618.75	619.00	619.25	619.50	619.75	619.97	620.15	620.27	620.40	620.53	621.07	621.20	621.33	621.47	621.60	621.73	621.87	622.22	623.00	623.00	624.00	625.00	625.00	625.00	626.04	627.35	627.71	628.07	628.43	628.79	629.14	629.30	629.55	629.85	630.21	630.57	630.93	631.29	631.64	631.95	632.20	632.40	632.60	632.80										
GROUND HEIGHT	613.80	616.00	617.00	618.00	618.40	619.50	619.50	619.50	619.75	620.00	620.25	620.50	620.75	621.00	620.13	620.27	620.40	620.53	617.50	618.70	620.87	620.80	620.80	620.80	620.80	619.00	621.07	621.20	621.33	621.47	621.60	621.73	621.87	619.00	622.22	623.00	623.00	624.00	625.00	625.00	625.00	627.00	628.04	627.35	627.71	628.07	628.43	628.79	629.14	629.30	629.55	629.85	630.21	630.57	630.93	631.29	631.64	631.95	632.20	632.40	632.60	632.80
STATION	50	50+25	50+50	50+75	51	51+25	51+50	51+75	52	52+25	52+50	52+75	53	53+25	53+50	53+75	54	54+25	54+50	54+75	55	55+25	55+50	55+75	56	56+25	56+50	56+75	57+25	57+50	57+75	58	58+25	58+50	58+75	59+25	59+50	59+75	60	60+25	60+50	60+75	61	61+25	61+50	61+75	62	62+25	62+50													
CURVE ELEMENT	R=20.00	L=89.15		R=200.00				L=173.21				R=180.00		R=150.00		L=78.04		R=100.00				L=36.01		L=94.24				R=120.00		L=34.26		R=30.00																														

G-1-6: Location and Type of Cross Drainage to be applied STA.52+50~STA.75+00



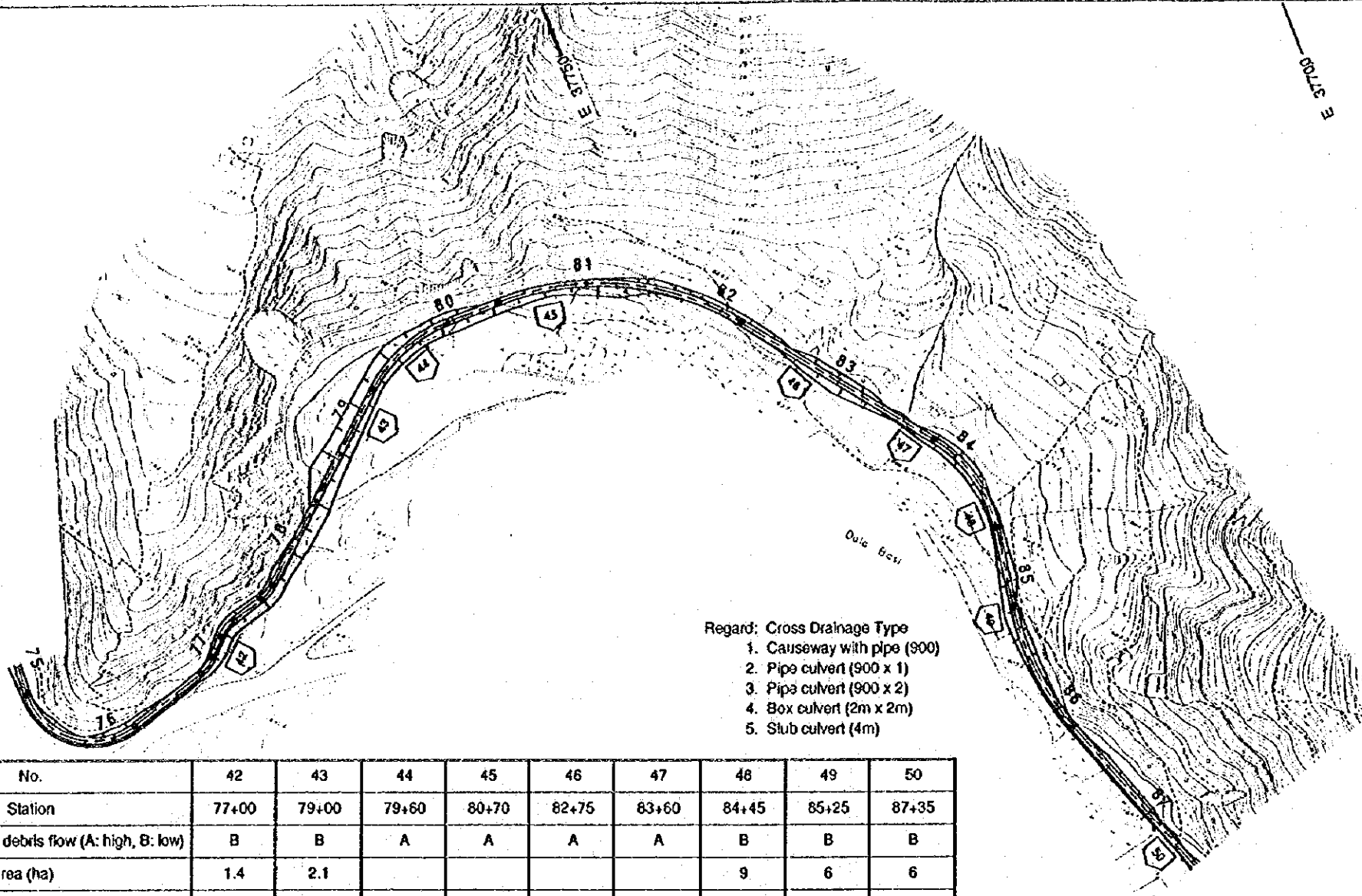
Regard: Cross Drainage Type
 1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Slub culvert (4m)

No.	34	35	36	37	38	39	40	41
Station	63+10	65+55	66+25	68+25	70+15	70+85	71+80	73+35
Possibility of debris flow (A: high, B: low)	B	B	B	B	B	B	A	B
Catchment area (ha)	6.8	8.9	16.5	13.5	1.2	20.6	-	4.2
Terrain (A: steep, B: flat)	A	A	A	A	A	A	A	B
Cross-drainage type	2	2	3	3	2	4	1	2
Checkdam & channel (m)	5					5		5



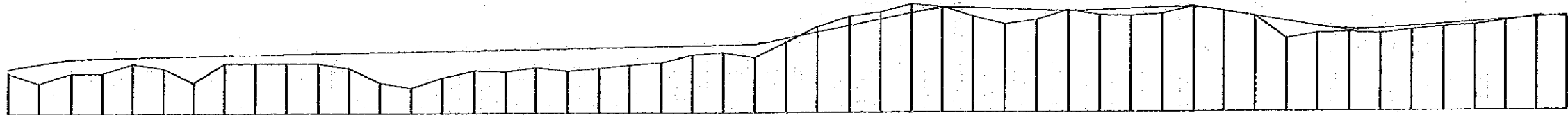
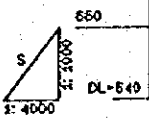
GRADE	10.73% 300m		10.35% 425m		12.00% 175m		10.67% 150m		14.65% 250m	
PROPOSED HEIGHT	632.80	632.80	632.80	632.80	632.80	632.80	632.80	632.80	632.80	632.80
GROUND HEIGHT	629.00	630.00	631.00	632.00	633.00	634.00	635.00	636.00	637.00	638.00
STATION	62+90	63+75	64	64+25	64+50	64+75	65	65+25	66+25	66+50
CURVE ELEMENT	R=30.00	L=55.93	R=400.00	L=86.24	R=300.00	R=1000.00	L=60.17	R=1000.00	L=46.81	L=75.12

G-1-7: Location and Type of Cross Drainage to be applied
STA.75+00~STA.87+50



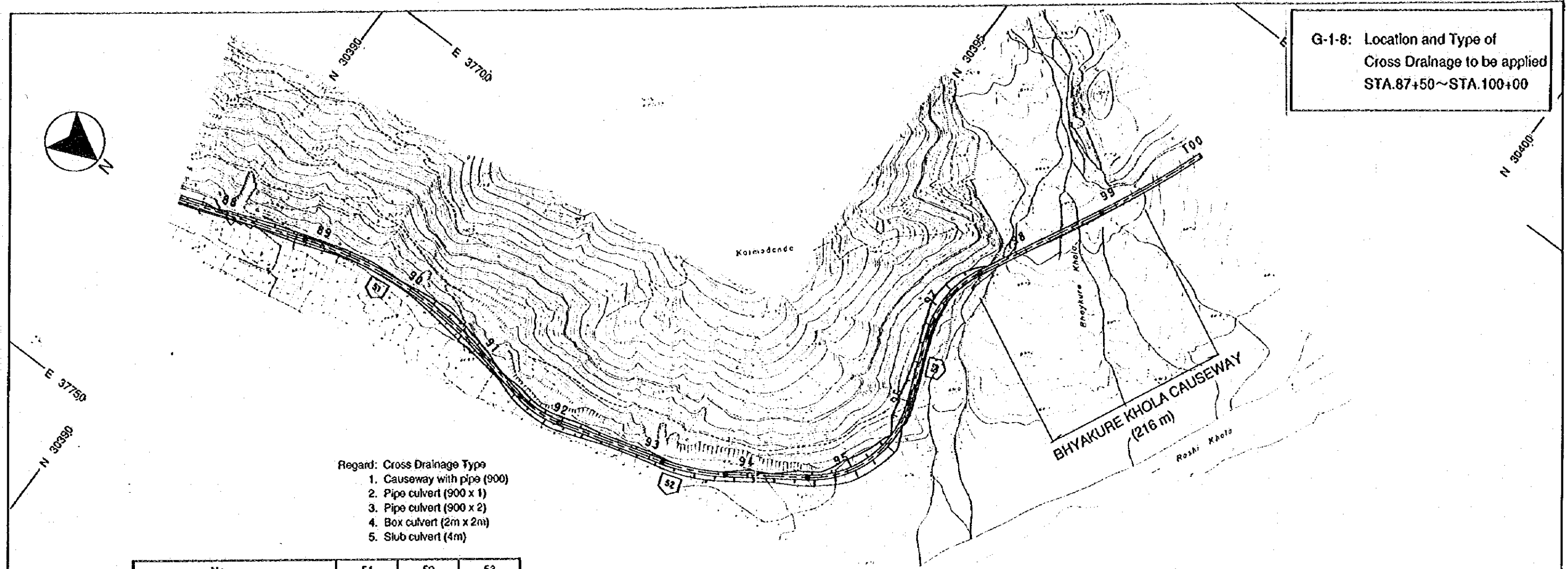
Regard: Cross Drainage Type
 1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Stub culvert (4m)

No.	42	43	44	45	46	47	48	49	50
Station	77+00	79+00	79+60	80+70	82+75	83+60	84+45	85+25	87+35
Possibility of debris flow (A: high, B: low)	B	B	A	A	A	A	B	B	B
Catchment area (ha)	1.4	2.1					9	6	6
Terrain (A: steep, B: flat)	A	B	A	A	A	A	A	B	A
Cross-drainage type	2	2	1	1	1	1	2	2	2
Checkdam & channel (m)							5	5	



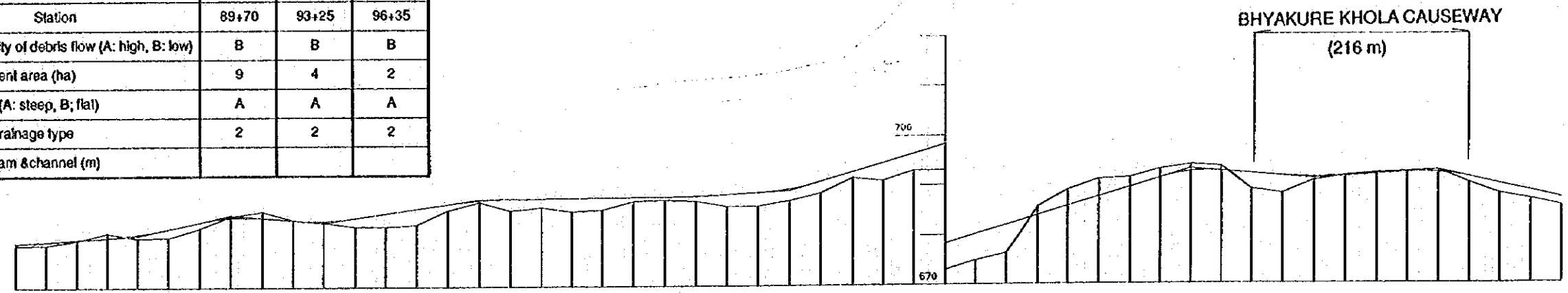
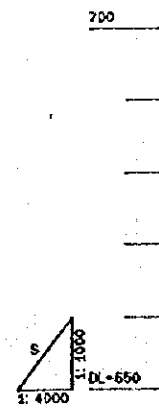
GRADE	$\frac{14.00\%}{250\text{m}}$ $\frac{10.45\%}{550\text{m}}$ $\frac{53.50}{100\text{m}}$ $\frac{45.00\%}{150\text{m}}$ $\frac{681.00}{100\text{m}}$ $\frac{-1.00\%}{100\text{m}}$ $\frac{860.00}{100\text{m}}$ $\frac{11.00\%}{100\text{m}}$ $\frac{881.00}{125\text{m}}$ $\frac{-4.00\%}{125\text{m}}$ $\frac{856.00}{215\text{m}}$ $\frac{11.84\%}{215\text{m}}$																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
PROPOSED HEIGHT	646.00	650.00	650.75	651.11	651.23	651.34	651.45	651.57	651.68	651.80	651.91	652.02	652.14	652.25	652.36	652.48	652.59	652.70	652.82	652.93	653.05	653.16	653.27	653.39	653.50	653.76	654.75	656.00	657.25	658.50	659.75	661.00	662.25	663.50	664.75	666.00	667.25	668.50	669.75	671.00	672.25	673.50	674.75	676.00	677.25	678.50	679.75	681.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
GROUND HEIGHT	648.10	646.00	648.00	648.00	650.00	649.00	648.00	650.00	651.00	650.00	650.00	652.02	648.00	645.00	647.00	648.50	648.30	649.10	648.40	648.80	649.50	648.90	651.50	652.00	651.00	654.00	657.00	659.00	661.00	663.00	665.00	667.00	669.00	671.00	673.00	675.00	677.00	679.00	681.00	683.00	685.00	687.00	689.00	691.00	693.00	695.00	697.00	699.00	701.00	703.00	705.00	707.00	709.00	711.00	713.00	715.00	717.00	719.00	721.00	723.00	725.00	727.00	729.00	731.00	733.00	735.00	737.00	739.00	741.00	743.00	745.00	747.00	749.00	751.00	753.00	755.00	757.00	759.00	761.00	763.00	765.00	767.00	769.00	771.00	773.00	775.00	777.00	779.00	781.00	783.00	785.00	787.00	789.00	791.00	793.00	795.00	797.00	799.00	801.00	803.00	805.00	807.00	809.00	811.00	813.00	815.00	817.00	819.00	821.00	823.00	825.00	827.00	829.00	831.00	833.00	835.00	837.00	839.00	841.00	843.00	845.00	847.00	849.00	851.00	853.00	855.00	857.00	859.00	861.00	863.00	865.00	867.00	869.00	871.00	873.00	875.00	877.00	879.00	881.00	883.00	885.00	887.00	889.00	891.00	893.00	895.00	897.00	899.00	901.00	903.00	905.00	907.00	909.00	911.00	913.00	915.00	917.00	919.00	921.00	923.00	925.00	927.00	929.00	931.00	933.00	935.00	937.00	939.00	941.00	943.00	945.00	947.00	949.00	951.00	953.00	955.00	957.00	959.00	961.00	963.00	965.00	967.00	969.00	971.00	973.00	975.00	977.00	979.00	981.00	983.00	985.00	987.00	989.00	991.00	993.00	995.00	997.00	999.00	1001.00	1003.00	1005.00	1007.00	1009.00	1011.00	1013.00	1015.00	1017.00	1019.00	1021.00	1023.00	1025.00	1027.00	1029.00	1031.00	1033.00	1035.00	1037.00	1039.00	1041.00	1043.00	1045.00	1047.00	1049.00	1051.00	1053.00	1055.00	1057.00	1059.00	1061.00	1063.00	1065.00	1067.00	1069.00	1071.00	1073.00	1075.00	1077.00	1079.00	1081.00	1083.00	1085.00	1087.00	1089.00	1091.00	1093.00	1095.00	1097.00	1099.00	1101.00	1103.00	1105.00	1107.00	1109.00	1111.00	1113.00	1115.00	1117.00	1119.00	1121.00	1123.00	1125.00	1127.00	1129.00	1131.00	1133.00	1135.00	1137.00	1139.00	1141.00	1143.00	1145.00	1147.00	1149.00	1151.00	1153.00	1155.00	1157.00	1159.00	1161.00	1163.00	1165.00	1167.00	1169.00	1171.00	1173.00	1175.00	1177.00	1179.00	1181.00	1183.00	1185.00	1187.00	1189.00	1191.00	1193.00	1195.00	1197.00	1199.00	1201.00	1203.00	1205.00	1207.00	1209.00	1211.00	1213.00	1215.00	1217.00	1219.00	1221.00	1223.00	1225.00	1227.00	1229.00	1231.00	1233.00	1235.00	1237.00	1239.00	1241.00	1243.00	1245.00	1247.00	1249.00	1251.00	1253.00	1255.00	1257.00	1259.00	1261.00	1263.00	1265.00	1267.00	1269.00	1271.00	1273.00	1275.00	1277.00	1279.00	1281.00	1283.00	1285.00	1287.00	1289.00	1291.00	1293.00	1295.00	1297.00	1299.00	1301.00	1303.00	1305.00	1307.00	1309.00	1311.00	1313.00	1315.00	1317.00	1319.00	1321.00	1323.00	1325.00	1327.00	1329.00	1331.00	1333.00	1335.00	1337.00	1339.00	1341.00	1343.00	1345.00	1347.00	1349.00	1351.00	1353.00	1355.00	1357.00	1359.00	1361.00	1363.00	1365.00	1367.00	1369.00	1371.00	1373.00	1375.00	1377.00	1379.00	1381.00	1383.00	1385.00	1387.00	1389.00	1391.00	1393.00	1395.00	1397.00	1399.00	1401.00	1403.00	1405.00	1407.00	1409.00	1411.00	1413.00	1415.00	1417.00	1419.00	1421.00	1423.00	1425.00	1427.00	1429.00	1431.00	1433.00	1435.00	1437.00	1439.00	1441.00	1443.00	1445.00	1447.00	1449.00	1451.00	1453.00	1455.00	1457.00	1459.00	1461.00	1463.00	1465.00	1467.00	1469.00	1471.00	1473.00	1475.00	1477.00	1479.00	1481.00	1483.00	1485.00	1487.00	1489.00	1491.00	1493.00	1495.00	1497.00	1499.00	1501.00	1503.00	1505.00	1507.00	1509.00	1511.00	1513.00	1515.00	1517.00	1519.00	1521.00	1523.00	1525.00	1527.00	1529.00	1531.00	1533.00	1535.00	1537.00	1539.00	1541.00	1543.00	1545.00	1547.00	1549.00	1551.00	1553.00	1555.00	1557.00	1559.00	1561.00	1563.00	1565.00	1567.00	1569.00	1571.00	1573.00	1575.00	1577.00	1579.00	1581.00	1583.00	1585.00	1587.00	1589.00	1591.00	1593.00	1595.00	1597.00	1599.00	1601.00	1603.00	1605.00	1607.00	1609.00	1611.00	1613.00	1615.00	1617.00	1619.00	1621.00	1623.00	1625.00	1627.00	1629.00	1631.00	1633.00	1635.00	1637.00	1639.00	1641.00	1643.00	1645.00	1647.00	1649.00	1651.00	1653.00	1655.00	1657.00	1659.00	1661.00	1663.00	1665.00	1667.00	1669.00	1671.00	1673.00	1675.00	1677.00	1679.00	1681.00	1683.00	1685.00	1687.00	1689.00	1691.00	1693.00	1695.00	1697.00	1699.00	1701.00	1703.00	1705.00	1707.00	1709.00	1711.00	1713.00	1715.00	1717.00	1719.00	1721.00	1723.00	1725.00	1727.00	1729.00	1731.00	1733.00	1735.00	1737.00	1739.00	1741.00	1743.00	1745.00	1747.00	1749.00	1751.00	1753.00	1755.00	1757.00	1759.00	1761.00	1763.00	1765.00	1767.00	1769.00	1771.00	1773.00	1775.00	1777.00	1779.00	1781.00	1783.00	1785.00	1787.00	1789.00	1791.00	1793.00	1795.00	1797.00	1799.00	1801.00	1803.00	1805.00	1807.00	1809.00	1811.00	1813.00	1815.00	1817.00	1819.00	1821.00	1823.00	1825.00	1827.00	1829.00	1831.00	1833.00	1835.00	1837.00	1839.00	1841.00	1843.00	1845.00	1847.00	1849.00	1851.00	1853.00	1855.00	1857.00	1859.00	1861.00	1863.00	1865.00	1867.00	1869.00	1871.00	1873.00	1875.00	1877.00	1879.00	1881.00	1883.00	1885.00	1887.00	1889.00	1891.00	1893.00	1895.00	1897.00	1899.00	1901.00	1903.00	1905.00	1907.00	1909.00	1911.00	1913.00	1915.00	1917.00	1919.00	1921.00	1923.00	1925.00	1927.00	1929.00	1931.00	1933.00	1935.00	1937.00	1939.00	1941.00	1943.00	1945.00	1947.00	1949.00	1951.00	1953.00	1955.00	1957.00	1959.00	1961.00	1963.00	1965.00	1967.00	1969.00	1971.00	1973.00	1975.00	1977.00	1979.00	1981.00	1983.00	1985.00	1987.00	1989.00	1991.00	1993.00	1995.00	1997.00	1999.00	2001.00	2003.00	2005.00	2007.00	2009.00	2011.00	2013.00	2015.00	2017.00	2019.00	2021.00	2023.00	2025.00	2027.00	2029.00	2031.00	2033.00	2035.00	2037.00	2039.00	2041.00	2043.00	2045.00	2047.00	2049.00	2051.00	2053.00	2055.00	2057.00	2059.00	2061.00	2063.00	2065.00	2067.00	2069.00	2071.00	2073.00	2075.00	2077.00	2079.00	2081.00	2083.00	2085.00	2087.00	2089.00	2091.00	2093.00	2095.00	2097.00	2099.00	2101.00	2103.00	2105.00	2107.00	2109.00	2111.00	2113.00	2115.00	2117.00	2119.00	2121.00	2123.00	2125.00	2127.00	2129.00	2131.00	2133.00	2135.00	2137.00	2139.00	2141.00	2143.00	2145.00	2147.00	2149.00	2151.00	2153.00	2155.00	2157.00	2159.00	2161.00	2163.00	2165.00	2167.00	2169.00	2171.00	2173.00	2175.00	2177.00	2179.00	2181.00	2183.00	2185.00	2187.00	2189.00	2191.00	2193.00	2195.00	2197.00	2199.00	2201.00	2203.00	2205.00	2207.00	2209.00	2211.00	2213.00	2215.00	2217.00	2219.00	2221.00	2223.00	2225.00	2227.00	2229.00	2231.00	2233.00	2235.00	2237.00	2239.00	2241.00	2243.00	2245.00	2247.00	2249.00	2251.00	2253.00	2255.00	2257.00	2259.00	2261.00	2263.00	2265.00	2267.00	2269.00	2271.00	2273.00	2275.00	2277.00	2279.00	2281.00	2283.00	2285.00	2287.00	2289.00	2291.00	2293.00	2295.00	2297.00	2299.00	2301.00	2303.00	2305.00	2307.00	2309.00	2311.00	2313.00	2315.00	2317.00	2319.00	2321.00	2323.00	2325.00	2327.00	2329.00	2331.00	2333.00	2335.00	2337.00	2339.00	2341.00	2343.00	2345.00	2347.00	2349.00	2351.00	2353.00	2355.00	2357.00	2359.00	2361.00	2363.00	

G-1-8: Location and Type of Cross Drainage to be applied STA.87+50~STA.100+00



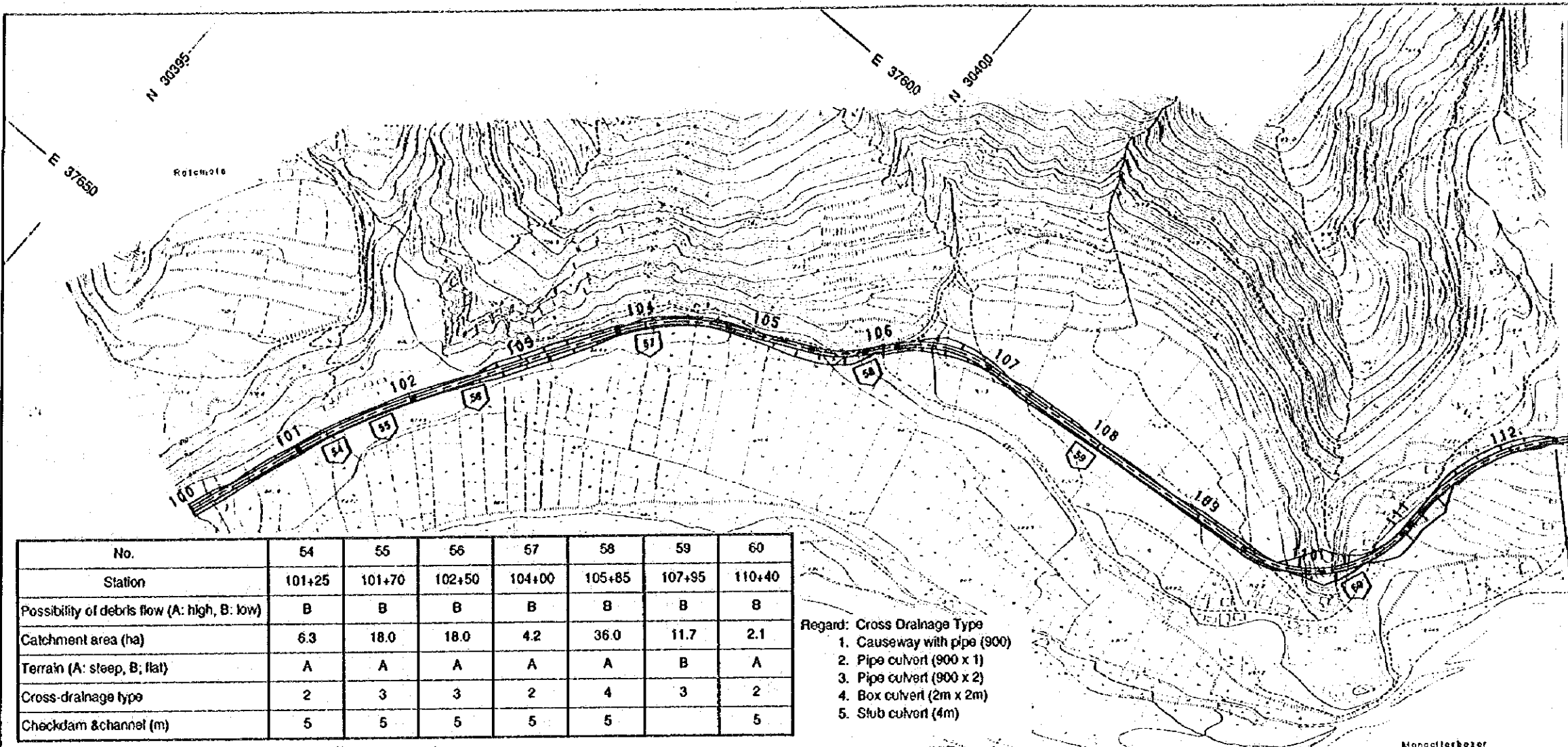
- Regard: Cross Drainage Type
1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Slab culvert (4m)

No.	51	52	53
Station	89+70	93+25	96+35
Possibility of debris flow (A: high, B: low)	B	B	B
Catchment area (ha)	9	4	2
Terrain (A: steep, B: flat)	A	A	A
Cross-drainage type	2	2	2
Chockdam & channel (m)			



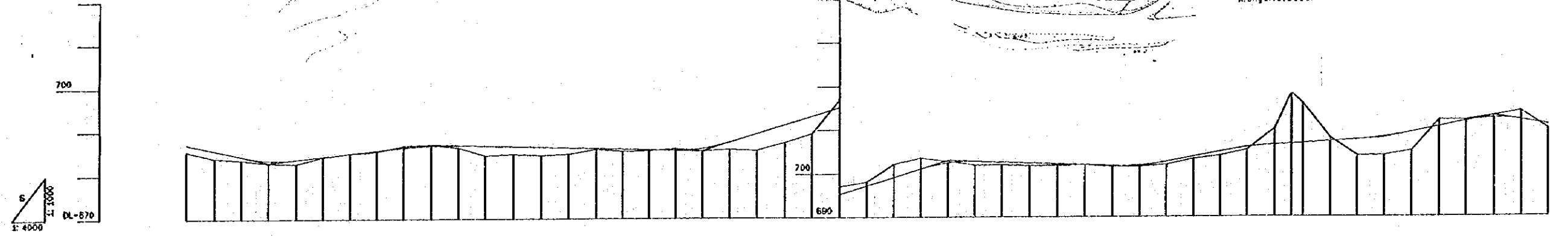
GRADE																																																								
PROPOSED HEIGHT	658.86	659.27	659.68	660.09	660.73	661.83	663.17	664.04	664.00	663.50	663.35	663.30	664.80	665.70	666.80	667.20	667.37	667.64	667.71	667.79	667.86	667.93	668.07	668.33	668.67	669.36	670.65	671.30	672.09	674.54	676.39	678.23	680.08	681.82	683.77	685.02	687.45	689.31	691.15	692.41	692.50	692.00	691.50	691.22	691.38	691.75	692.13	692.07	691.14	689.79	688.43	687.07				
GROUND HEIGHT	658.50	659.60	659.50	661.00	660.00	660.10	662.00	664.30	665.20	663.50	662.00	662.20	662.20	662.20	662.50	665.40	665.30	665.20	665.00	665.00	665.40	667.10	667.20	667.00	666.00	666.00	667.00	668.50	671.30	671.00	674.54	673.00	673.00	674.75	676.10	685.50	688.80	691.00	691.30	693.00	693.80	692.50	688.50	688.00	691.50	692.00	692.00	690.50	691.50	691.75	692.25	692.30	690.00	687.50	686.75	685.50
STATION	87+00	87+75	88	88+25	89+50	89+75	90	90+25	90+50	90+75	91	91+25	91+50	91+75	92	92+25	92+50	92+75	93	93+25	93+50	93+75	94	94+25	94+50	94+75	95	95+25	95+50	95+75	96	96+25	96+50	96+75	97	97+25	97+50	97+75	98	98+25	98+50	98+75	99	99+25	99+50	99+75	100									
CURVE ELEMENT	L=265.33		R=400.00			L=58.00		R=100.00				L=111.72			R=200.00		L=91.42		R=100.00			L=59.50		R=100.00		L=135.21			R=1000.00																											

G-1-9: Location and Type of
Cross Drainage to be applied
STA.100+00~STA.112+50



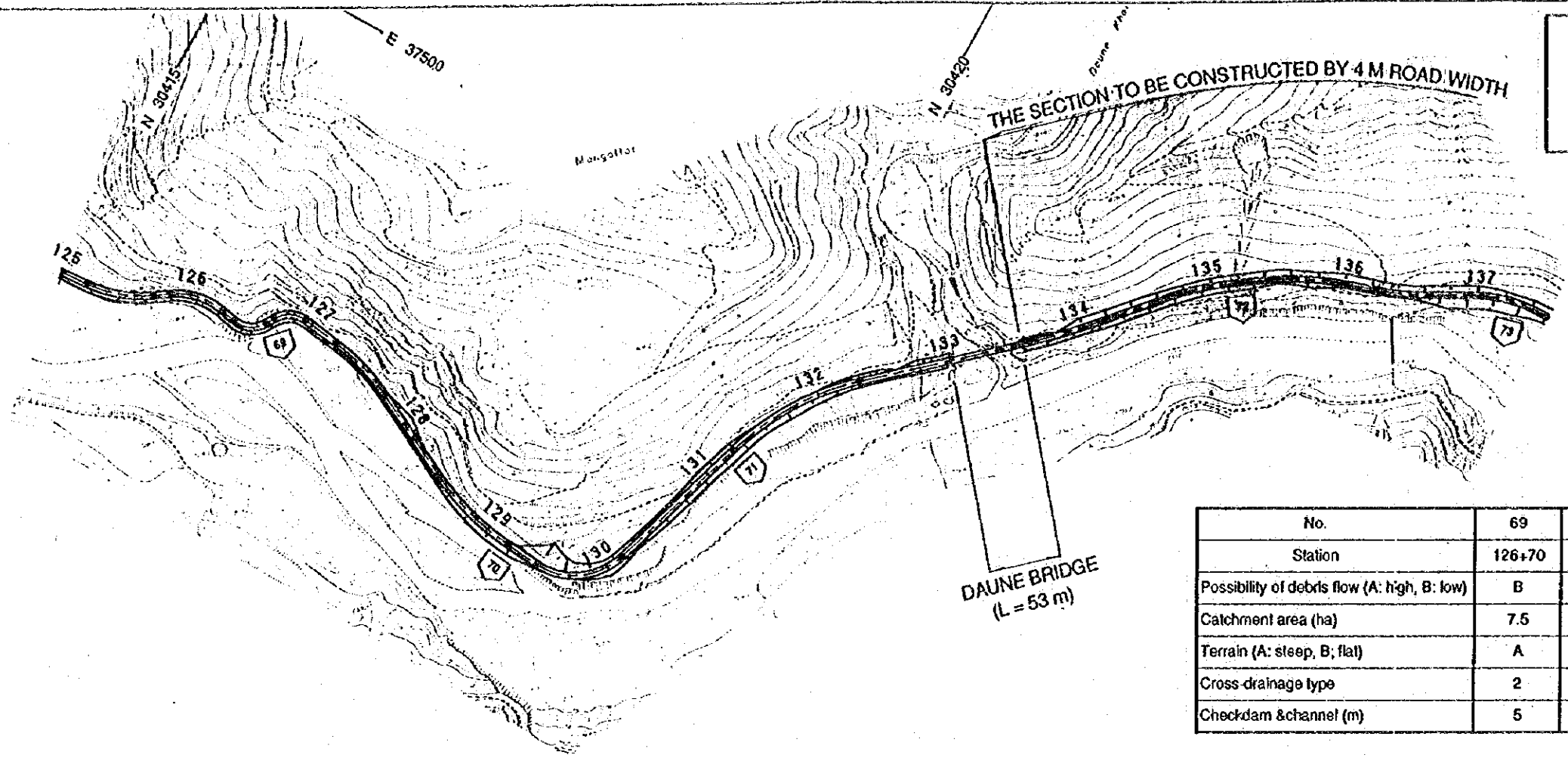
No.	54	55	56	57	58	59	60
Station	101+25	101+70	102+50	104+00	105+85	107+95	110+40
Possibility of debris flow (A: high, B: low)	B	B	B	B	B	B	B
Catchment area (ha)	6.3	18.0	18.0	4.2	36.0	11.7	2.1
Terrain (A: steep, B; flat)	A	A	A	A	A	B	A
Cross-drainage type	2	3	3	2	4	3	2
Checkdam & channel (m)	5	5	5	5	5	5	5

- Regard: Cross Drainage Type
1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Stub culvert (4m)



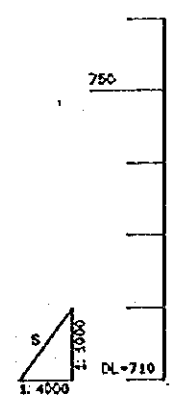
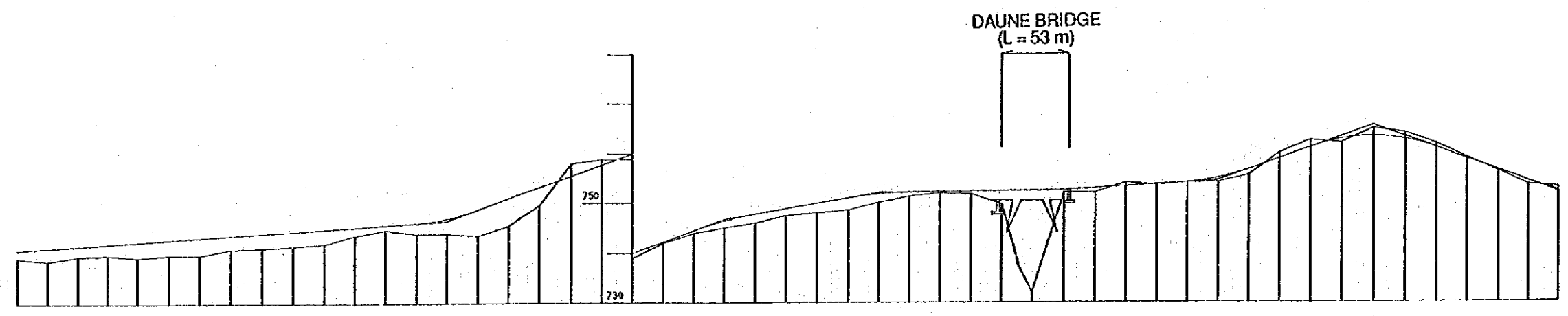
GRADE																																																												
PROPOSED HEIGHT	687.07	685.71	684.36	683.51	683.67	684.33	685.00	685.87	688.25	688.25	688.70	688.33	685.40	686.25	686.10	685.95	685.80	685.65	686.02	687.44	689.39	681.35	689.26	687.00	685.22	687.17	689.11	701.06	702.48	702.79	702.57	702.36	702.14	701.85	701.71	701.63	701.63	702.63	703.75	704.88	705.82	706.40	706.84	706.80	706.80	707.20	707.80	706.21	706.25	710.50	711.75	712.44	712.00	711.00						
GROUND HEIGHT	685.50	684.00	683.50	682.90	682.73	684.25	685.00	685.50	688.75	687.00	685.80	686.25	684.50	684.80	684.50	684.80	685.60	685.80	686.00	685.50	685.80	687.20	689.25	687.00	687.00	688.00	689.00	689.11	703.50	702.80	702.00	702.57	701.75	702.36	701.80	701.80	701.80	701.80	702.00	702.00	702.63	703.25	704.00	704.88	705.20	705.82	706.40	706.84	706.80	706.80	707.20	707.80	706.21	706.25	710.50	711.75	712.00	712.44	712.00	711.00
STATION	100	100+25	100+50	100+75	101	101+25	101+50	101+75	102	102+25	102+50	102+75	103	103+25	103+50	103+75	104	104+25	104+50	104+75	105	105+25	105+50	105+75	106	106+25	106+50	106+75	107	107+25	107+50	107+75	108	108+25	108+50	108+75	109	109+25	109+50	109+75	110	110+25	110+50	110+75	111	111+25	111+50	111+75	112	112+25	112+50									
CURVE ELEMENT	L=146.59		R=500.00										L=174.45		R=160.00		L=71.01		R=100.00						L=256.28										R=100.00						R=150.00																			

G-1-11: Location and Type of Cross Drainage to be applied STA.125+00~STA.137+50



- Regard: Cross Drainage Type
1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Slab culvert (4m)

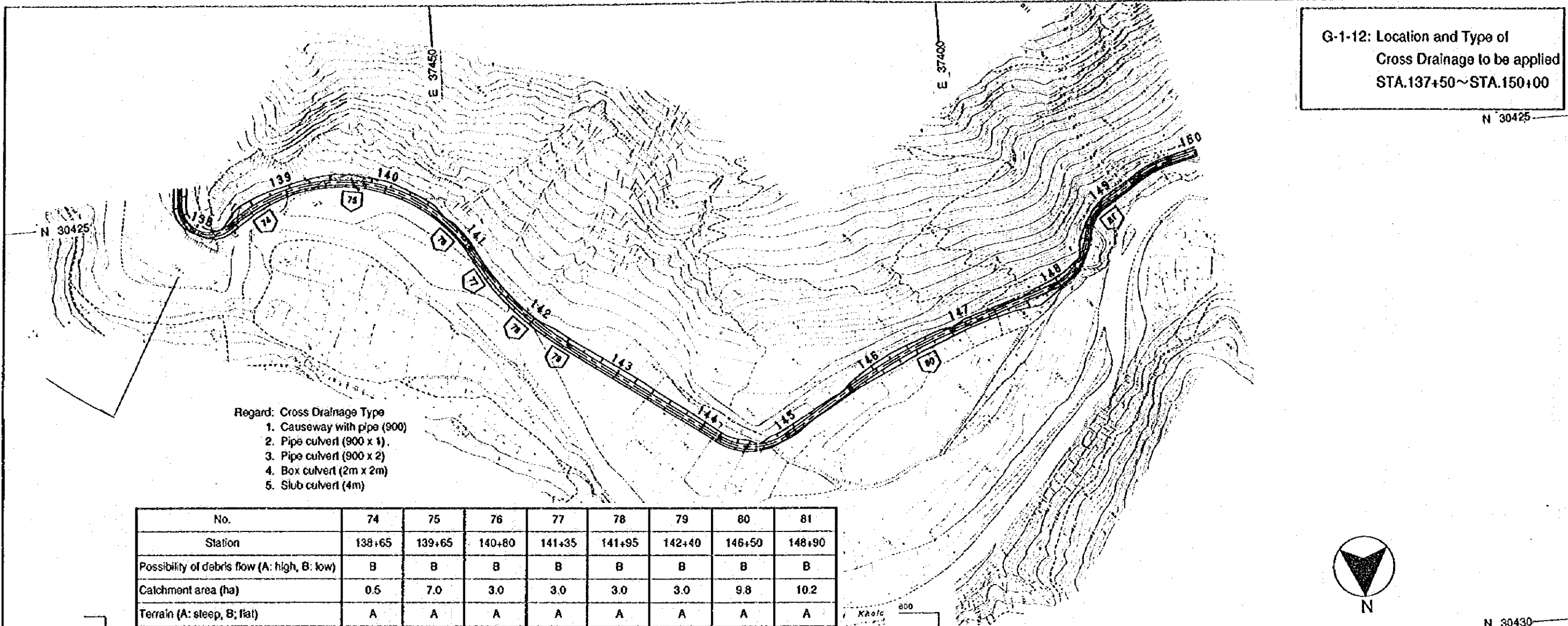
No.	69	70	71	72	73
Station	126+70	129+20	131+25	135+20	137+25
Possibility of debris flow (A: high, B: low)	B	B	B	B	B
Catchment area (ha)	7.5	1.3	2.0	5.2	1.8
Terrain (A: steep, B: flat)	A	A	A	A	A
Cross-drainage type	2	2	2	2	2
Checkdam & channel (m)	5	5			



GRADE																														
PROPOSED HEIGHT	720.81	721.22	721.63	722.03	722.44	722.84	723.25	723.66	724.06	724.47	724.88	725.28	725.69	726.09	726.49	726.89	727.29	727.69	728.09	728.49										
GROUND HEIGHT	719.10	718.60	719.50	719.70	719.50	719.70	719.70	720.90	721.10	721.50	722.00	723.70	724.70	724.00	724.00	724.00	725.80	725.80	725.80	725.80										
STATION	125	125+25	125+50	125+75	126	126+25	126+50	126+75	127	127+25	127+50	127+75	128	128+25	128+50	128+75	129	129+25	129+50	129+75										
CURVE ELEMENT	R=100.00		R=50.00		R=20.00		R=150.00		L=71.65		R=200.00		R=50.00		L=112.28		R=200.00		L=127.65		R=500.00		L=52.51		R=200.00		R=200.00		R=100.00	

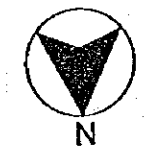
G-1-12: Location and Type of Cross Drainage to be applied STA.137+50~STA.150+00

N 30425

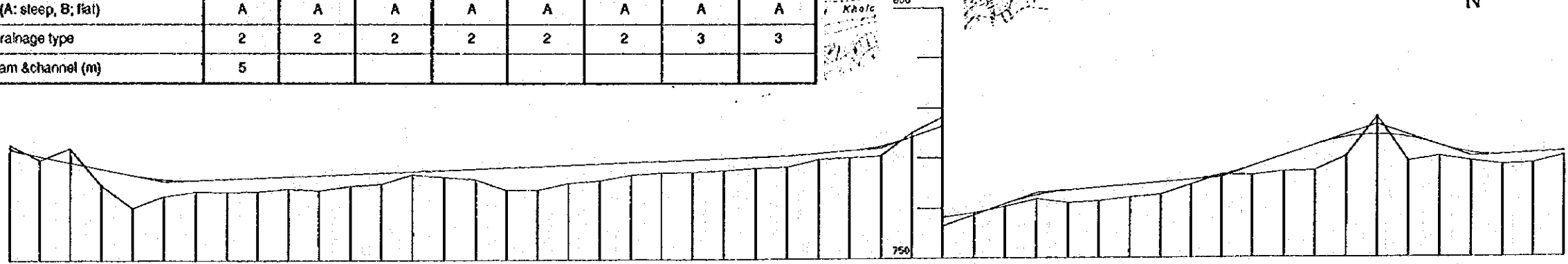
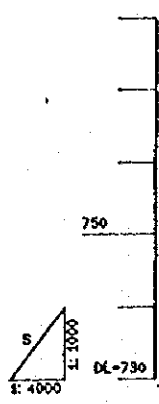


Regard: Cross Drainage Type
 1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Slub culvert (4m)

No.	74	75	76	77	78	79	80	81
Station	138+65	139+65	140+80	141+35	141+95	142+40	146+50	148+90
Possibility of debris flow (A: high, B: low)	B	B	B	B	B	B	B	B
Catchment area (ha)	0.5	7.0	3.0	3.0	3.0	3.0	9.8	10.2
Terrain (A: steep, B: flat)	A	A	A	A	A	A	A	A
Cross-drainage type	2	2	2	2	2	2	3	3
Checkdam & channel (m)	5							

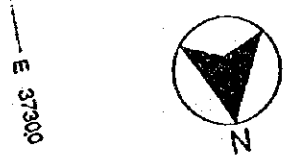


N 30430



GRADE																																																											
PROPOSED HEIGHT	752.25	750.76	749.82	748.28	747.04	745.17	745.04	745.80	746.05	746.27	746.31	746.74	746.98	747.21	747.45	747.69	747.92	748.15	748.39	748.62	748.85	749.09	749.32	749.56	749.80	750.03	750.27	750.50	750.74	751.00	751.50	752.43	754.20	756.40	759.00	760.80	763.00	763.50	764.00	764.50	765.00	765.50	766.40	766.10	770.20	772.30	773.67	774.37	773.60	772.17	770.81	770.29	770.57	770.86					
GROUND HEIGHT	753.00	750.00	749.30	745.00	740.50	742.80	745.80	743.05	749.80	748.31	744.30	744.00	746.08	744.80	745.25	747.00	746.50	746.10	744.00	748.39	744.00	746.52	745.20	745.75	746.80	747.30	747.40	749.60	747.70	748.15	746.30	749.57	749.80	751.00	751.50	752.43	764.20	756.40	759.00	760.80	763.00	763.50	764.00	764.50	765.00	765.50	766.40	766.10	767.10	767.30	772.30	773.67	774.37	773.60	772.17	769.00	768.30	770.57	770.86
STATION	137+50	137+75	138	138+25	139+50	139+75	139	139+25	139+50	139+75	140	140+25	140+50	140+75	141	141+25	141+50	141+75	142	142+25	142+50	142+75	143	143+25	143+50	143+75	144	144+25	144+50	144+75	145	145+25	146+50	146+75	147	147+25	147+50	148	148+25	148+50	148+75	149	149+25	149+50	149+75	150													
CURVE ELEMENT	R=30.00		R=160.00										R=300.00					R=60.00			R=600.00					R=50.00		R=30.00		R=100.00																													
ELEMENT	L=175.76		L=76.79					L=105.95					L=48.65		L=100.00																																												

G-1-15: Location and Type of Cross Drainage to be applied STA.175+00~STA.187+50



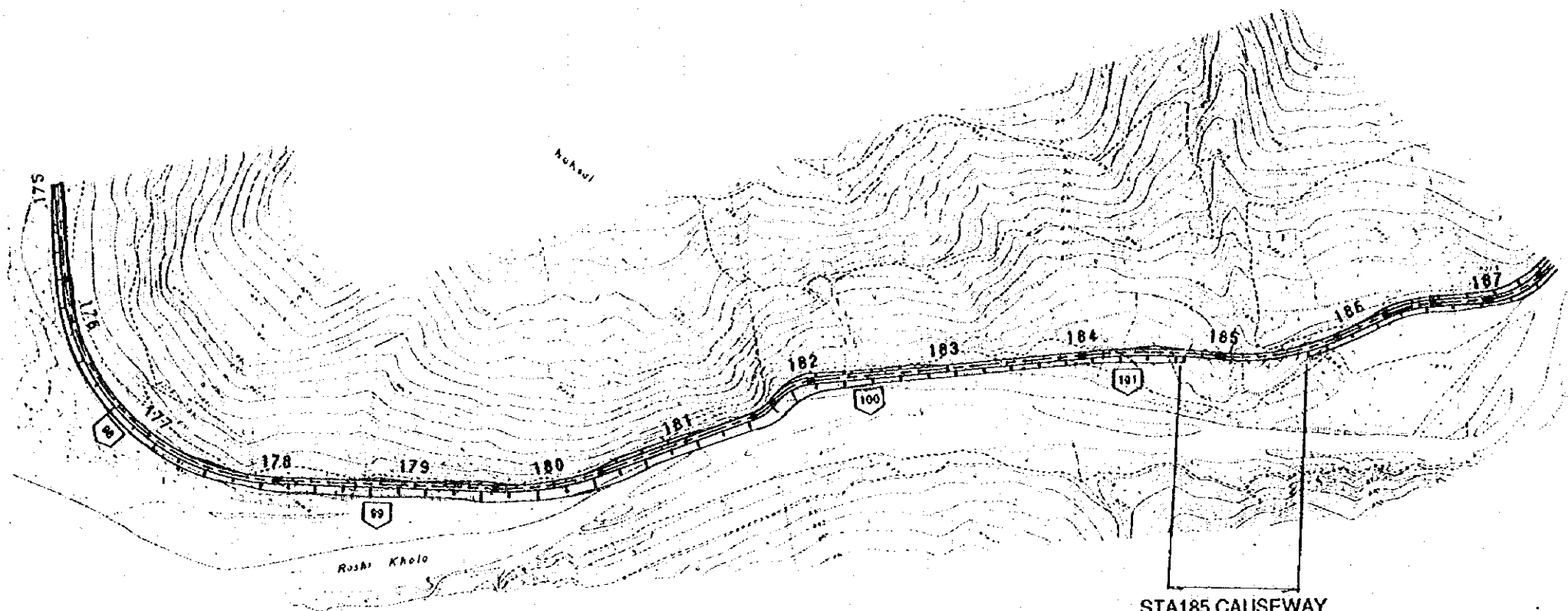
E 37300

E 37250

E 37200

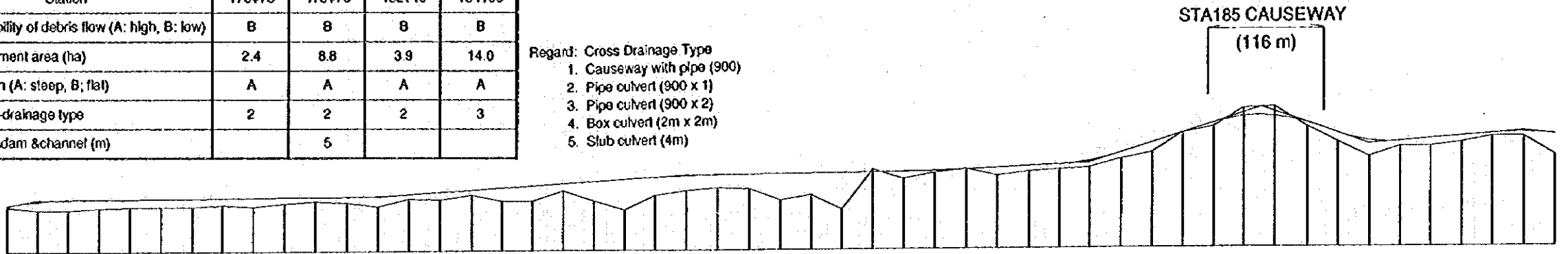
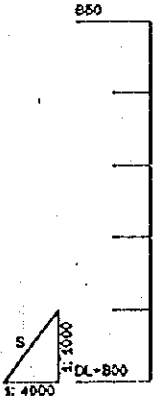
N 30445

N 30450



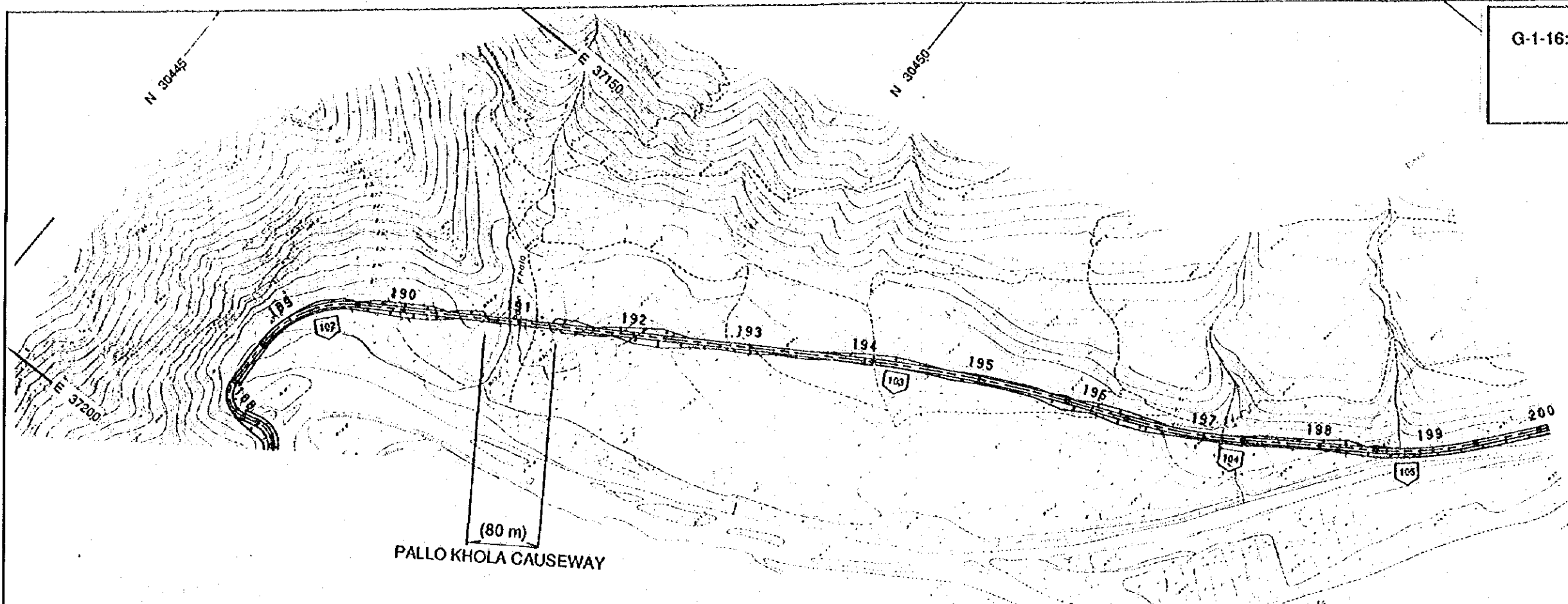
No.	98	99	100	101
Station	176+75	178+70	182+40	184+30
Possibility of debris flow (A: high, B: low)	B	B	B	B
Catchment area (ha)	2.4	8.8	3.9	14.0
Terrain (A: steep, B: flat)	A	A	A	A
Cross-drainage type	2	2	2	3
Checkdam & channel (m)		5		

Regard: Cross Drainage Type
 1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Slab culvert (4m)



GRADE																																																	
PROPOSED HEIGHT	809.34	810.22	810.35	810.59	810.64	810.88	810.73	810.77	810.82	810.86	811.00	811.40	811.80	812.20	812.00	813.40	813.80	814.20	814.80	814.92	815.08	815.15	815.23	815.30	815.38	815.45	815.53	815.60	815.68	816.15	816.44	816.72	817.42	818.06	820.00	820.15	820.88	822.71	821.18	821.00	821.50	822.00	822.00	822.50	822.71	823.00	823.33		
GROUND HEIGHT	809.00	809.40	809.40	809.60	809.00	809.00	809.30	809.00	809.60	810.10	809.80	810.50	810.20	811.20	810.00	812.00	810.00	808.00	811.00	812.00	812.50	812.30	810.00	811.00	808.00	815.00	815.00	814.10	815.20	816.00	815.40	815.80	816.10	817.80	819.00	819.00	823.00	824.10	827.80	825.20	824.00	821.00	818.00	820.00	820.00	820.80	821.90	821.00	818.20
STATION	175	175+25	175+50	175+75	176	176+25	176+50	176+75	177	177+25	177+50	177+75	178	178+25	178+50	178+75	180	180+25	180+50	180+75	181	181+25	181+50	181+75	182	182+25	182+50	182+75	183	183+25	183+50	183+75	184	184+25	184+50	184+75	185	185+25	185+50	185+75	186	186+25	186+50	186+75	187	187+25	187+50		
CURVE ELEMENT																																																	

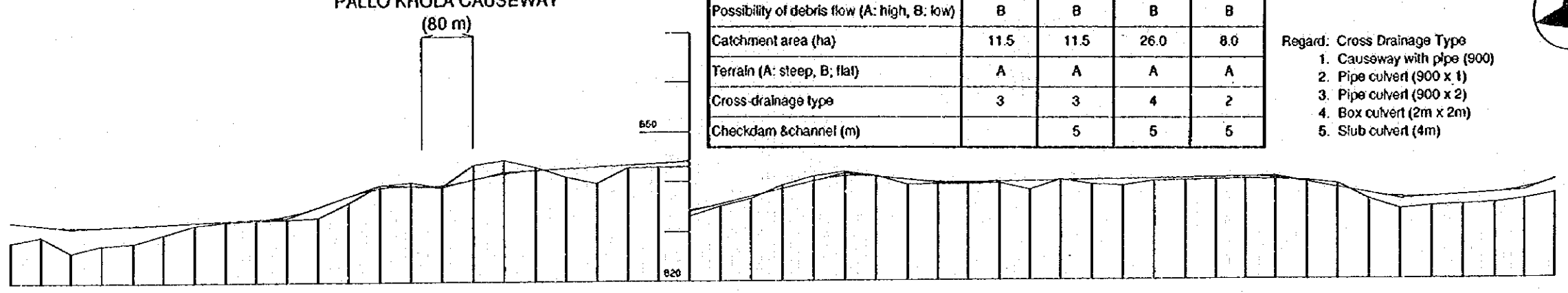
G-1-16: Location and Type of Cross Drainage to be applied STA.187+50~STA.200+00



PALLO KHOLA CAUSEWAY (80 m)

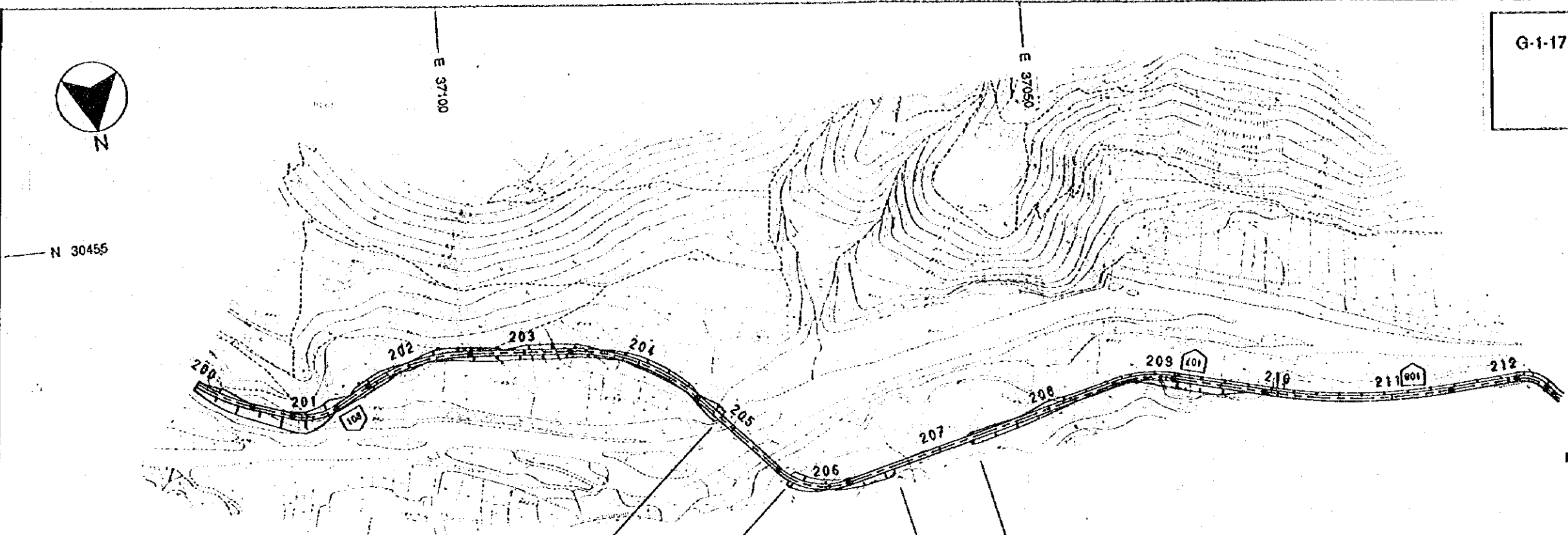
No.	102	103	104	105
Station	189+30	194+30	197+25	198+75
Possibility of debris flow (A: high, B: low)	B	B	B	B
Catchment area (ha)	11.5	11.5	26.0	8.0
Terrain (A: steep, B: flat)	A	A	A	A
Cross-drainage type	3	3	4	2
Checkdam & channel (m)		5	5	5

- Regard: Cross Drainage Type
1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Stub culvert (4m)



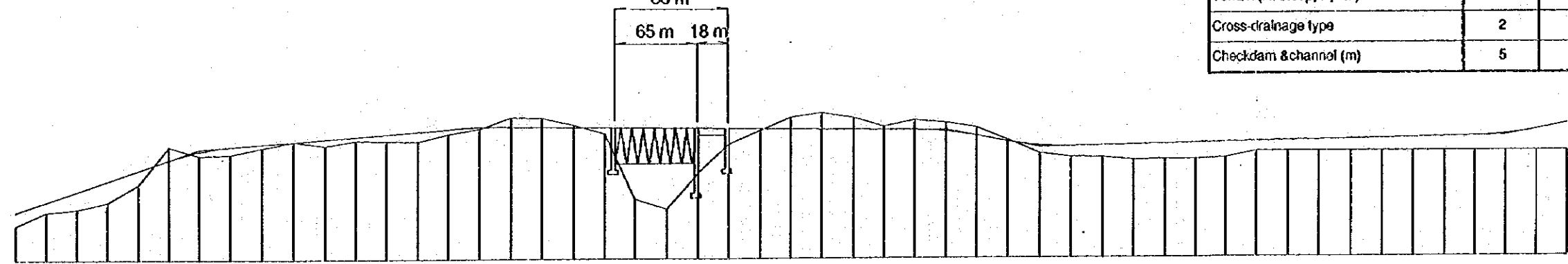
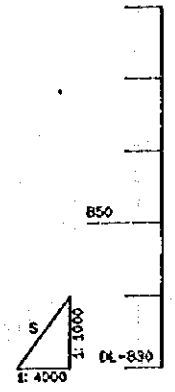
GRADE																																																							
PROPOSED HEIGHT	822.35	821.67	821.24	821.29	821.57	821.65	821.14	822.43	822.71	823.47	823.17	827.33	829.90	829.25	829.44	830.90	831.71	832.33	832.87	834.25	835.30	837.00	838.50	840.00	840.98	841.30	840.83	840.17	839.85	839.39	839.39	839.40	839.85	838.00	839.77	839.85	839.85	839.00	839.85	840.05	840.14	840.23	840.32	840.41	840.20	839.38	838.25	837.13	836.36	836.36	836.75	837.13	837.92	839.17	
GROUND HEIGHT	818.20	819.30	819.00	817.50	817.60	819.70	821.50	822.30	822.60	822.70	823.00	825.17	828.00	829.50	829.00	829.80	831.50	832.80	833.87	835.00	834.25	835.30	836.50	838.00	841.00	841.80	841.30	840.83	839.20	839.30	839.30	839.40	839.85	838.00	840.00	839.85	839.85	839.00	839.85	840.05	840.14	840.23	840.32	840.41	840.00	839.80	839.38	838.25	837.13	836.36	836.36	836.75	837.13	837.92	839.17
STATION	187+50	187+75	188	188+25	188+50	188+75	189	189+25	189+50	189+75	190	190+25	190+50	190+75	191	191+25	191+50	191+75	192	192+25	192+50	192+75	193	193+25	193+50	193+75	194	194+25	194+50	194+75	195	195+25	195+50	195+75	196	196+25	196+50	196+75	197	197+25	197+50	197+75	198	198+25	198+50	198+75	199	199+25	199+50	199+75	200				
CURVE ELEMENT	R=20.00		L=40.24		R=50.00		L=448.04										R=1000.00		L=59.67		R=500.00			L=115.73		R=300.00		L=56.27		R=150.00																									

G-1-17: Location and Type of Cross Drainage to be applied STA.200+00~STA.212+50



- Regard: Cross Drainage Type
1. Causeway with pipe (900)
 2. Pipe culvert (900 x 1)
 3. Pipe culvert (900 x 2)
 4. Box culvert (2m x 2m)
 5. Stub culvert (4m)

No.	106	107	108
Station	201+35	209+25	211+10
Possibility of debris flow (A: high, B: low)	B	B	B
Catchment area (ha)	4.7	11.0	12.0
Terrain (A: steep, B; flat)	B	B	B
Cross-drainage type	2	3	3
Checkdam & channel (m)	5		



GRADE	18.20% 176m		12.00% 222m	-9.27% 376m	-4.67% 76m	10.63% 376m	14.67% 150m																																												
PROPOSED HEIGHT	839.87	841.64	843.71	845.79	847.89	849.93	851.61	852.90	853.00	853.50	854.00	854.50	855.00	855.36	855.43	855.37	855.30	855.23	855.17	855.10	855.03	855.37	855.30	855.63	855.77	855.70	855.63	855.57	855.22	854.35	853.17	852.35	852.13	852.27	852.40	852.33	852.33	852.87	852.90	852.25	853.07	853.20	853.23	853.47	854.26	855.17	855.33				
GROUND HEIGHT	826.80	839.50	840.20	841.50	845.00	849.93	850.80	851.00	852.20	853.50	854.70	854.70	855.00	855.00	855.30	855.30	855.80	855.00	855.23	855.17	855.10	855.03	855.37	855.30	855.63	855.77	855.70	855.63	855.57	855.22	854.35	853.17	852.35	852.13	852.27	852.40	852.33	852.33	852.87	852.90	852.25	853.07	853.20	853.23	853.47	854.26	855.17	855.33			
STATION	200	200+23	200+50	200+73	201	201+25	201+50	201+75	202	202+25	202+50	202+73	203	203+25	203+50	203+75	204	204+25	204+50	204+75	205	205+25	205+50	205+75	206	206+25	206+50	206+75	207	207+25	207+50	207+75	208	208+25	208+50	208+75	209	209+25	209+50	209+75	210	210+25	210+50	210+75	211	211+25	211+50	211+75	212	212+25	212+50
CURVE ELEMENT	R=150.00	L=35.23	R=50.00	R=150.00	L=56.53	R=150.00	L=93.33	R=50.00	L=243.10	R=100.00	L=78.85	R=500.00	L=55.15	R=30.00	R=30.00																																				