

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

HIS MAJESTY'S GOVERNMENT OF NEPAL  
MINISTRY OF WORKS AND TRANSPORT  
DEPARTMENT OF ROADS

AFTERCARE STUDY  
FOR  
SINDHULI ROAD CONSTRUCTION PROJECT

# FINAL REPORT

VOLUME III  
DRAWINGS

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1124296(3)

JULY 1993

NIPPON KOEI CO., LTD. TOKYO

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93-077(3/3)

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

HIS MAJESTY'S GOVERNMENT OF NEPAL  
MINISTRY OF WORKS AND TRANSPORT  
DEPARTMENT OF ROADS

AFTERCARE STUDY  
FOR  
SINDHULI ROAD CONSTRUCTION PROJECT

# FINAL REPORT

VOLUME III  
DRAWINGS

JULY 1993

NIPPON KOEI CO., LTD. TOKYO



1124296 [3]

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- B. PROFILE
- C. STANDARD CROSS SECTION
- D. RIVER CROSSING STRUCTURES
- E. DRAINAGE STRUCTURES
- F. MISCELLANEOUS WORKS

# A. PLAN

## ABBREVIATION & LEGEND

### SECTION I

PLAN INDEX

PLAN

### SECTION II

PLAN INDEX

PLAN II-1

PLAN II-2

PLAN II-3

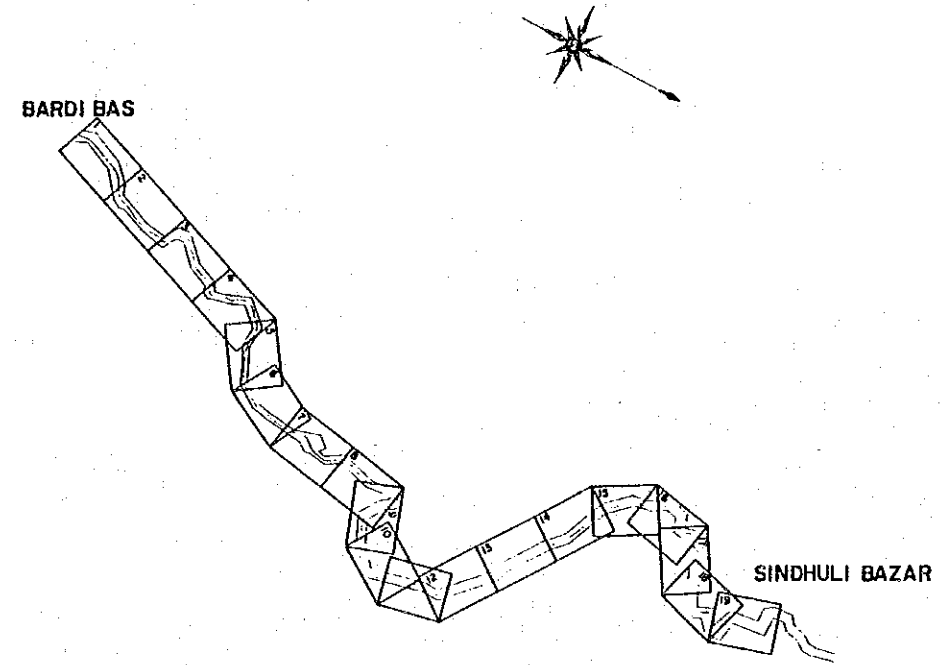
## ABBREVIATIONS

ABBREVIATION	FULL WORDS
I.P	INTERSECTION POINT
STA	STATION
X	X CO-ORDINATE (NORTH)
Y	Y CO-ORDINATE (EAST)
L OR R	LIGHT CURVE OR LEFT CURVE
I. A	INTERSECTION ANGLE
R	RADIUS OF CURVATURE
A	CLOTHOIDE PARAMETER
L	CLOTHOIDE LENGTH
L.C	CIRCULAR CURVE LENGTH
C.L	TOTAL CURVE LENGTH
D	DISTANCE OF IP AND BTC OR ETC
BTC	BEGINNING OF CLOTHOIDE
B.C	BEGINNING OF CIRCULAR CURVE
E.C	END OF CIRCULAR CURVE
E.TC	END OF CLOTHOIDE
T.L	TANGENT LENGTH
S.L	SECANT LENGTH
C-BX-a x B x l	BOX-CULVART a: WIDTH, b: HEIGHT, l: LENGTH
C-A-a x B x l	ARCH-CULVART a: WIDTH, b: HEIGHT, l: LENGTH
C-S-a x B x l	SLAB-CULVART a: WIDTH, b: HEIGHT, l: LENGTH
C-P( )-φ x l	PIPE CULVART (Cor): CORRUGATED METAL PIPE (Rc): REINFORCED CONCRETE PIPE (Pc): PRESTRESSED CONCRETE PIPE φ: DIAMETER l: LENGTH
RW( )-h x l	RETAINING WALL (Gr): GRAVITY (T): REVERSE T. TYPE (Ga): GABION (Gh): HALF GRAVITY (Sm-A) STONE MASONRY TYPE A (Sm-B) STONE MASONRY TYPE B h: HEIGHT, l: LENGTH
CS-a	SPRAY APPLICATION OF CONCRETE a: AREA
CF-a	CONCRETE FRAME a: AREA
BR.	BRIDGE TYPE OF BRIDGE (PCCB): PRESTRESSED CONCRETE COMPOSITE (HBCB): H SHARP BEAM BRIDGE (D.Truss): DECK TYPE STEEL TRUSS (T.Truss): THROUGH TYPE STEEL TRUSS
C/W	CAUSEWAY TYPE OF CAUSEWAY (RBLC): RIVER BED LEVEL CAUSEWAY (VC): VENTED TYPE CAUSEWAY (SB): SUBMERSIBLE BRIDGE

## LEGEND

DETAIL	SYMBOLS
PROPOSED ROADWAY WITH CUT SLOPE, FILL SLOPE, SIDE DITCH & CHANNEL	
GRAVITY, REVERSE T. TYPE, GABION, & STONE MASONRY RETAINING WALL	
BRIDGE	
BOX, ARCH, SLAB-CULVERT & PIPE CULVERT	
TUNNEL & SHED	
CONCRETE FRAME, SPRAY APPLICATION OF CONCRETE & LEVEL FILL OR CUT	

# PLAN INDEX (SECTION I)

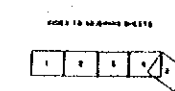
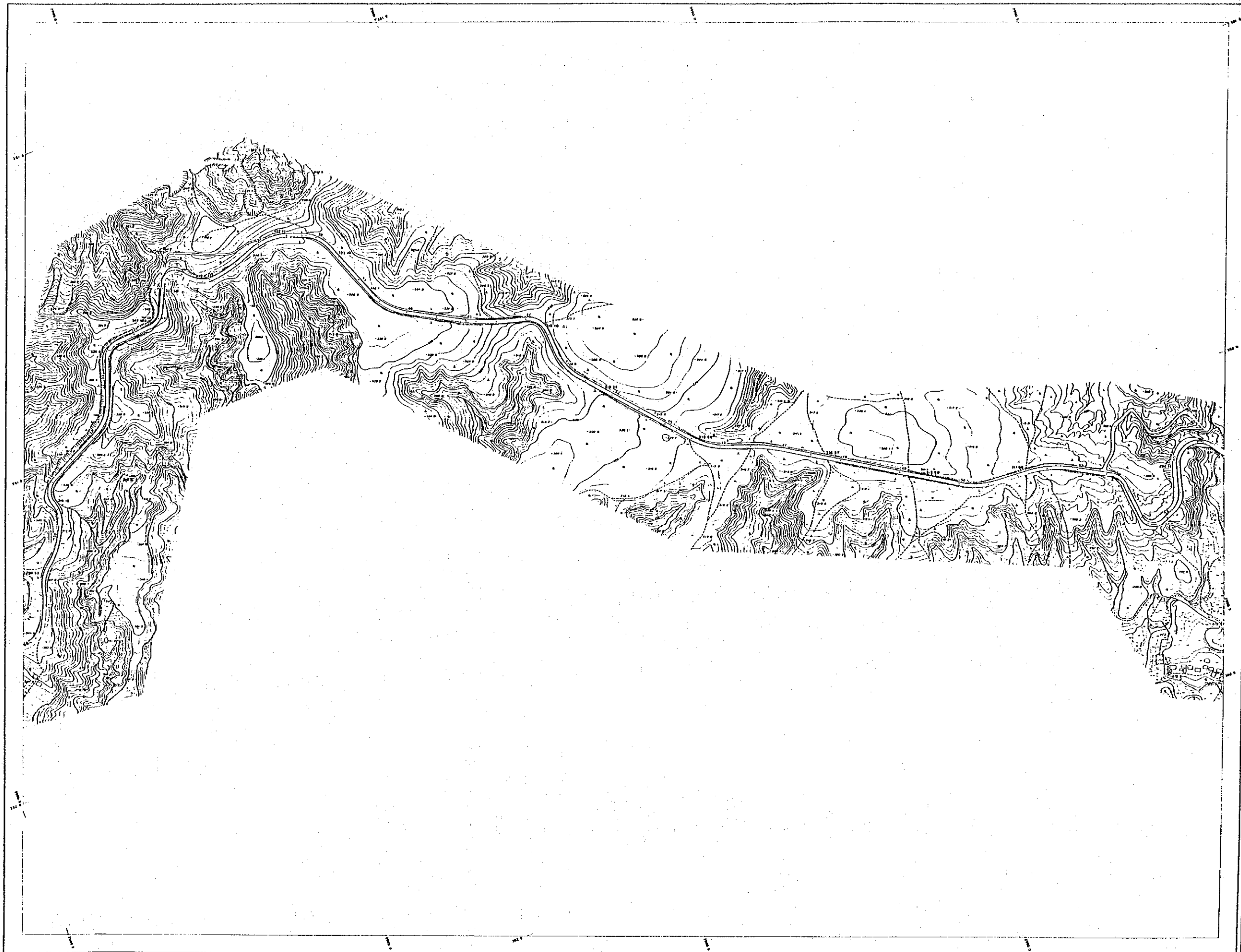


HIS MAJESTY'S GOVERNMENT OF NEPAL MINISTRY OF WORKS AND TRANSPORT DEPARTMENT OF ROADS	
AFTERCARE STUDY FOR SINDHULI ROAD CONSTRUCTION PROJECT	
PLAN INDEX (SECTION I)	Sheet No A - 02
Scale	Date
JAPAN INTERNATIONAL COOPERATION AGENCY	









THE NORTH IS TO BE KEPT CLEAR



LEGEND

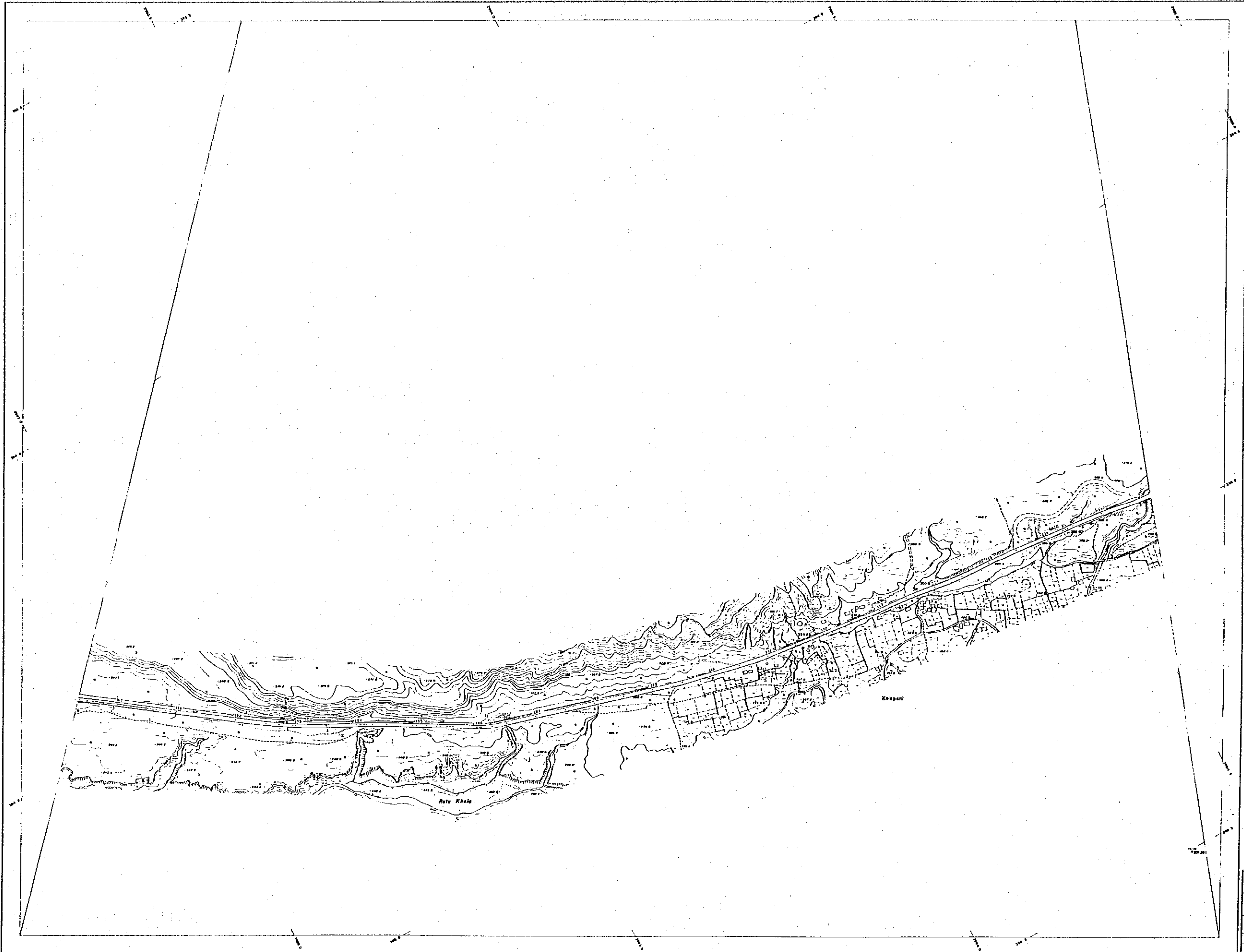
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TRAVELLER POINT	61220
BOUNDARY	61225
SPOT HEIGHT (UNCHECKED HEIGHT)	61230
SPOT HEIGHT (CHECKED HEIGHT)	61235
CONCRETE BUILDING	61240
MUD BUILDING	61245
ROAD WITH SIDE WALLS	61250
ROAD	61255
FOOT PATH	61260
CUTTING	61265
EMBANKMENT	61270
BRIDGE	61275
DRAINED	61280
FOOT BRIDGE	61285
RAILWAY	61290
RAILWAY SIGNAL	61295
LAND CLASSIFICATION (AGRICULTURE)	61300
LAND CLASSIFICATION (FOREST)	61305
FLUKE (HONEY) HOLE	61310
LEVEL	61315
TEMPLE	61320
MONASTERY	61325
BOHOL	61330
MON TOWER	61335
STONE STEEP	61340
CHURCH	61345
POWER TRANSMISSION LINE	61350
PADDY FIELD	61355
CULTIVATION	61360
RAILROAD	61365
BRIDGE	61370
RAILROAD	61375
RAILROAD	61380
RAILROAD	61385
RAILROAD	61390
RAILROAD	61395
RAILROAD	61400
RAILROAD	61405
RAILROAD	61410
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RAILROAD	61800
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RAILROAD	61900
RAILROAD	61905
RAILROAD	61910
RAILROAD	61915
RAILROAD	61920
RAILROAD	61925
RAILROAD	61930
RAILROAD	61935
RAILROAD	61940
RAILROAD	61945
RAILROAD	61950
RAILROAD	61955
RAILROAD	61960
RAILROAD	61965
RAILROAD	61970
RAILROAD	61975
RAILROAD	61980
RAILROAD	61985
RAILROAD	61990
RAILROAD	61995
RAILROAD	62000

HIS MAJESTY'S GOVERNMENT OF NEPAL		
MINISTRY OF WORKS AND TRANSPORT		
DEPARTMENT OF ROADS		
FOR		
APPROACH STUDY		
FOR		
SINDURJI ROAD CONSTRUCTION PROJECT		
PLAN	SHEET NO.	1/3
SCALE	1:6000	DATE
JAPAN INTERNATIONAL COOPERATION AGENCY		

NOTATION  
 SPACING: 1:5000  
 EMBANKMENT: 1:5000  
 SOURCE: 1:5000  
 CONTOUR: 1:5000







GOES TO ADJOINING SHEETS

THE SHEET SHEET NO.

LEGEND

TRANSVERSE SIGNAL	W 22.11
TRAVERSE POINT	W 22.12
BENCH MARK	W 22.13
BENCH POINT (CHECKED HEIGHT)	W 22.14
BENCH POINT (UNCHECKED HEIGHT)	W 22.15
CONCRETE BENCH MARK	W 22.16
QUARRY	W 22.17
GRAVEL PIT	W 22.18
ROAD	W 22.19
FOOT PATH	W 22.20
DIKE	W 22.21
EMBANKMENT	W 22.22
BRIDGE	W 22.23
RAILWAY	W 22.24
LAND EXCHANGE SECTION	W 22.25
SECTION BOUNDARY	W 22.26
FENCE	W 22.27
TEMPLE	W 22.28
HOSPITAL	W 22.29
SCHOOL	W 22.30
WATER TOWER	W 22.31
STAKE	W 22.32
CEMETERY	W 22.33
POWER TRANSMISSION LINE	W 22.34
PLANT FIELD	W 22.35
EXCAVATION	W 22.36
BURIAL	W 22.37
GRAVE	W 22.38
WELL	W 22.39
WATER TOWER	W 22.40
WATER TOWER	W 22.41
WATER TOWER	W 22.42
WATER TOWER	W 22.43
WATER TOWER	W 22.44
WATER TOWER	W 22.45
WATER TOWER	W 22.46
WATER TOWER	W 22.47
WATER TOWER	W 22.48
WATER TOWER	W 22.49
WATER TOWER	W 22.50
WATER TOWER	W 22.51
WATER TOWER	W 22.52
WATER TOWER	W 22.53
WATER TOWER	W 22.54
WATER TOWER	W 22.55
WATER TOWER	W 22.56
WATER TOWER	W 22.57
WATER TOWER	W 22.58
WATER TOWER	W 22.59
WATER TOWER	W 22.60
WATER TOWER	W 22.61
WATER TOWER	W 22.62
WATER TOWER	W 22.63
WATER TOWER	W 22.64
WATER TOWER	W 22.65
WATER TOWER	W 22.66
WATER TOWER	W 22.67
WATER TOWER	W 22.68
WATER TOWER	W 22.69
WATER TOWER	W 22.70
WATER TOWER	W 22.71
WATER TOWER	W 22.72
WATER TOWER	W 22.73
WATER TOWER	W 22.74
WATER TOWER	W 22.75
WATER TOWER	W 22.76
WATER TOWER	W 22.77
WATER TOWER	W 22.78
WATER TOWER	W 22.79
WATER TOWER	W 22.80
WATER TOWER	W 22.81
WATER TOWER	W 22.82
WATER TOWER	W 22.83
WATER TOWER	W 22.84
WATER TOWER	W 22.85
WATER TOWER	W 22.86
WATER TOWER	W 22.87
WATER TOWER	W 22.88
WATER TOWER	W 22.89
WATER TOWER	W 22.90
WATER TOWER	W 22.91
WATER TOWER	W 22.92
WATER TOWER	W 22.93
WATER TOWER	W 22.94
WATER TOWER	W 22.95
WATER TOWER	W 22.96
WATER TOWER	W 22.97
WATER TOWER	W 22.98
WATER TOWER	W 22.99
WATER TOWER	W 23.00

HIS MAJESTY'S GOVERNMENT OF NEPAL  
 MINISTRY OF WORKS AND TRANSPORT  
 DEPARTMENT OF ROADS

FOR  
 AFTERCARE STUDY  
 FOR  
 SINDHURI ROAD CONSTRUCTION PROJECT

PLAN	SECTION 1	SHEET NO. A-6
SCALE	1:6,000	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

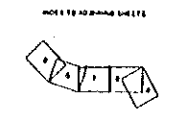
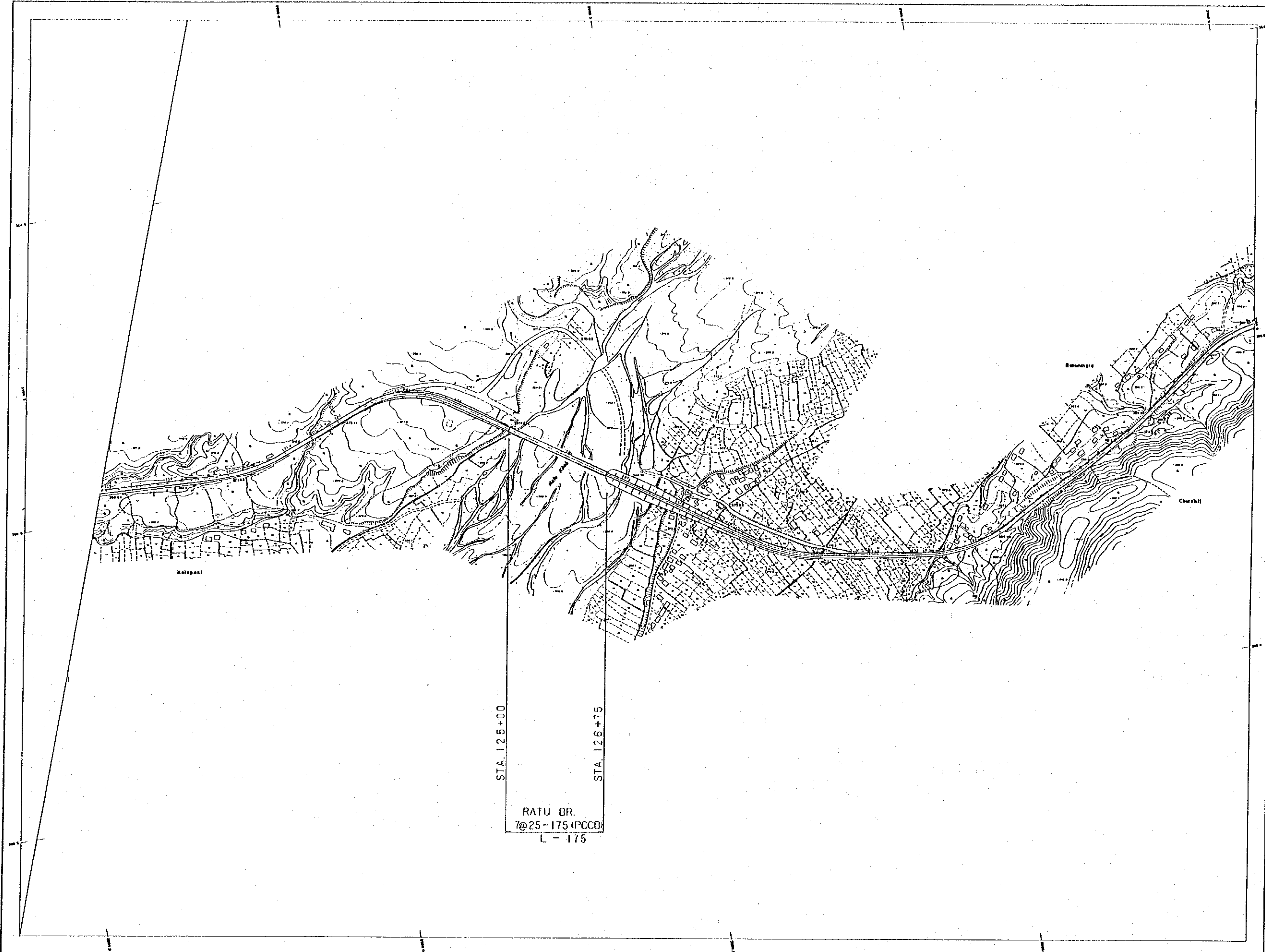
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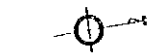
SPACING: 2 METRES

CONTOUR: 5 METRES

CONTOUR INTERVAL: 2 METRES



True North is 30° 45' East



1:60,000

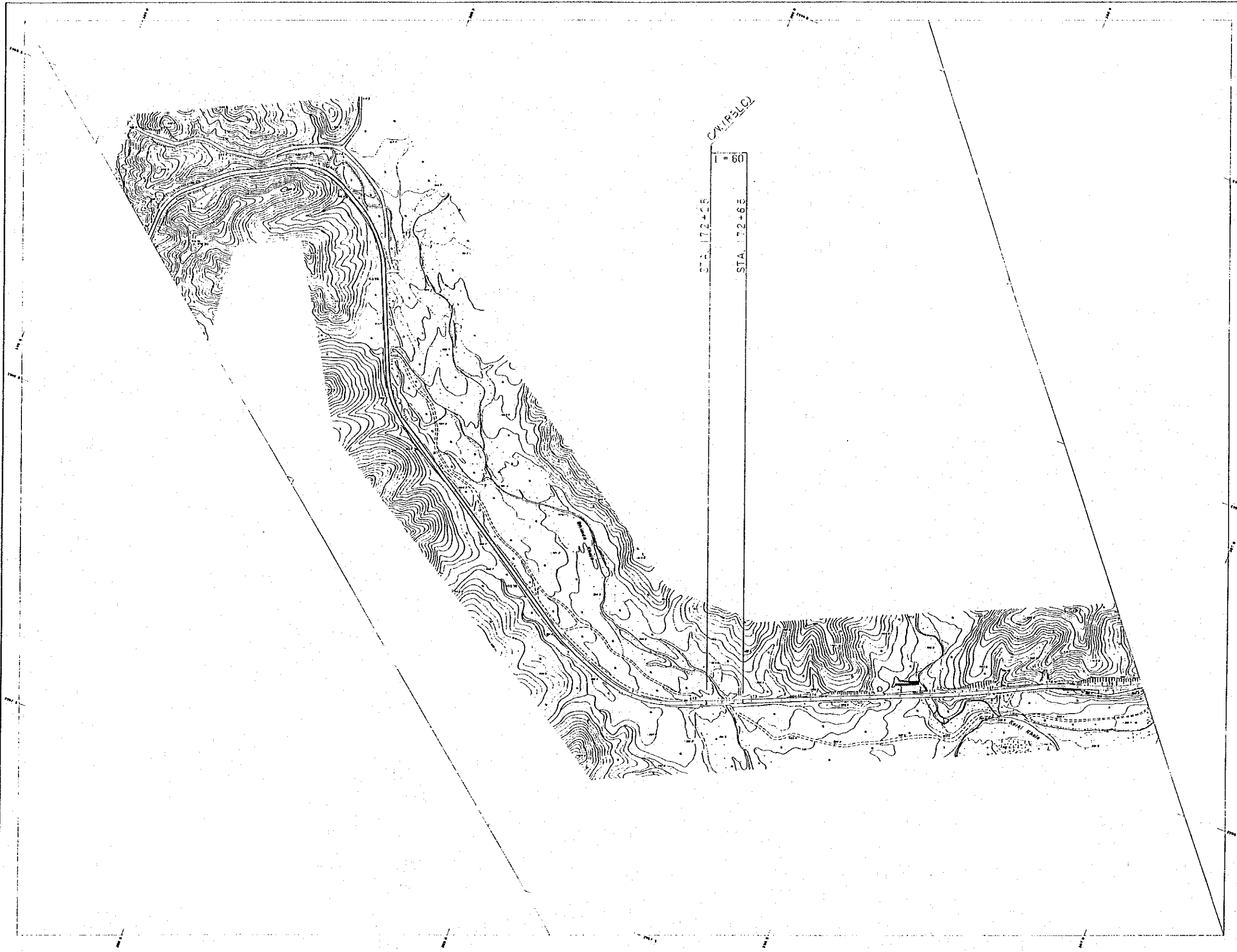
TRAVELER SIGN	1:1000
TRAVELER POLE	1:1000
TRAVEL SIGN	1:1000
TRAVEL SIGN (RECTANGULAR)	1:1000
TRAVEL SIGN (TRIANGULAR)	1:1000
CONCRETE BUILDING	1:1000
BUILDING	1:1000
WALL AND FENCE WALL	1:1000
ROAD	1:1000
FOOT PATH	1:1000
CUTTING	1:1000
EMBANKMENT	1:1000
BRIDGE	1:1000
CULVERT	1:1000
RAILWAY	1:1000
LIGHT RAILWAY	1:1000
LAND CLASSIFICATION SYMBOLS	1:1000
CULTIVATION SYMBOLS	1:1000
FENCE (WOOD WALL)	1:1000
LEVEL	1:1000
TEMPLE	1:1000
HOSPITAL	1:1000
SCHOOL	1:1000
WORK SHED	1:1000
STONE STEP	1:1000
CEMETERY	1:1000
POWER TRANSMISSION LINE	1:1000
PADDY FIELD	1:1000
PLANTATION	1:1000
BULFANDE	1:1000
BARANA	1:1000
SALE AND	1:1000
RAIL	1:1000
BARBER	1:1000
ROAD LEVER TABLE	1:1000
FIELD LEVER TABLE	1:1000
TEMPLE	1:1000
BRIDGE	1:1000
SAND GRAVEL	1:1000
DITCH	1:1000
MOVEMENT PLANT SYMBOLS	1:1000
WATER	1:1000
WATERFALL	1:1000
FIELD JUNCTION	1:1000
ROAD JUNCTION	1:1000
LAKE POND	1:1000
WATER POND	1:1000
WATER CONDUIT	1:1000
STANDARD CONTOUR	1:1000
HALF STANDARD CONTOUR	1:1000
SUPPLEMENTARY CONTOUR	1:1000
DEPRESSION CONTOUR	1:1000
CLIFF	1:1000
ROCKY GROUND	1:1000
WATERFALL	1:1000
WATERFALL	1:1000

STA. 125+00  
 STA. 126+75  
 RATU BR.  
 7@25=175 (PCCD)  
 L = 175

NOTATION  
 SPHEROID: Everest  
 COORDINATES: REPUBLICAN NATIONAL GRID SYSTEM  
 EDGES: AERIAL PHOTOGRAPHS 1:60,000  
 CONTOUR: CONTOUR INTERVAL: 5 METERS

HIS MAJESTY'S GOVERNMENT OF NEPAL MINISTRY OF WORKS AND TRANSPORT DEPARTMENT OF ROADS		
AFTERCARE STUDY FOR SINDHURI ROAD CONSTRUCTION PROJECT		
PLAN	SECTION 1	SHEET NO. A-7
SCALE	1:600	DATE
JAPAN INTERNATIONAL COOPERATION AGENCY		





NO. 1 TO 25 SHEETS

FROM NORTH 27° 26' 30" EAST

LEGEND

- TRADING STORE
- TRADING POINT
- STONE MARK
- SPOT HEIGHT (CHECKED HEIGHT)
- SPOT HEIGHT (UNCHECKED HEIGHT)
- CONCRETE BUILDING
- WOODEN BUILDING
- BUILDING WITHOUT WALL
- ROAD
- FOOT PATH
- CUTTING
- EMBANKMENT
- BRIDGE
- CULVERT
- FIRE BRIDGE
- PRAKARI
- LIGHT SIGNAL
- LAND ELEVATION (BY BAROMETR)
- ELEVATION (BY STAFF)
- FENCE (WITH WALL)
- TERRACE
- TEMPLE
- HOSPITAL
- SCHOOL
- WATER TOWER
- STONE STEP
- CENTRAL
- POWER TRANSMISSION LINE
- RAILWAY
- EVOLUTION
- PUBLIC LINE
- SEWAGE
- STEERING
- BUSH
- BRIDGE
- BRIDGE UNDER PASS
- NEEDLE LINED PILE
- TUM
- EMERALD
- LIND/ DANGER
- DITCH
- NEEDLE LINED PILE
- WELL
- BATH
- WATER TOWER
- FLOOD GATE
- FLOOD GATE
- BANK PROTECTION
- RAIL
- LINE SIGN
- WATER TOWER
- HOLEY CONTOUR
- STEELING CONTOUR
- WATER TOWER CONTOUR
- WATER TOWER CONTOUR
- DEPRESSION CONTOUR
- CLIFF
- ROCKY CLIFF
- OUTSIDE ROCK
- LIMB OF

HIS MAJESTY'S GOVERNMENT OF NEPAL	
MINISTRY OF WORKS AND TRANSPORT	
DEPARTMENT OF ROADS	
ALTERNATIVE STUDY	
FOR	
BINDHURI ROAD CONSTRUCTION PROJECT	
PLAN	SHEET A-9
SCALE 1:600	DATE
JAPAN INTERNATIONAL COOPERATION AGENCY	

DEPARTMENT OF ROADS, MINISTRY OF WORKS AND TRANSPORT  
HIS MAJESTY'S GOVERNMENT OF NEPAL.

NOTATION

SPACING 100 METERS

COORDINATE NEPALI NATIONAL GRID SYSTEM

SCALE 1:600

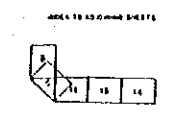
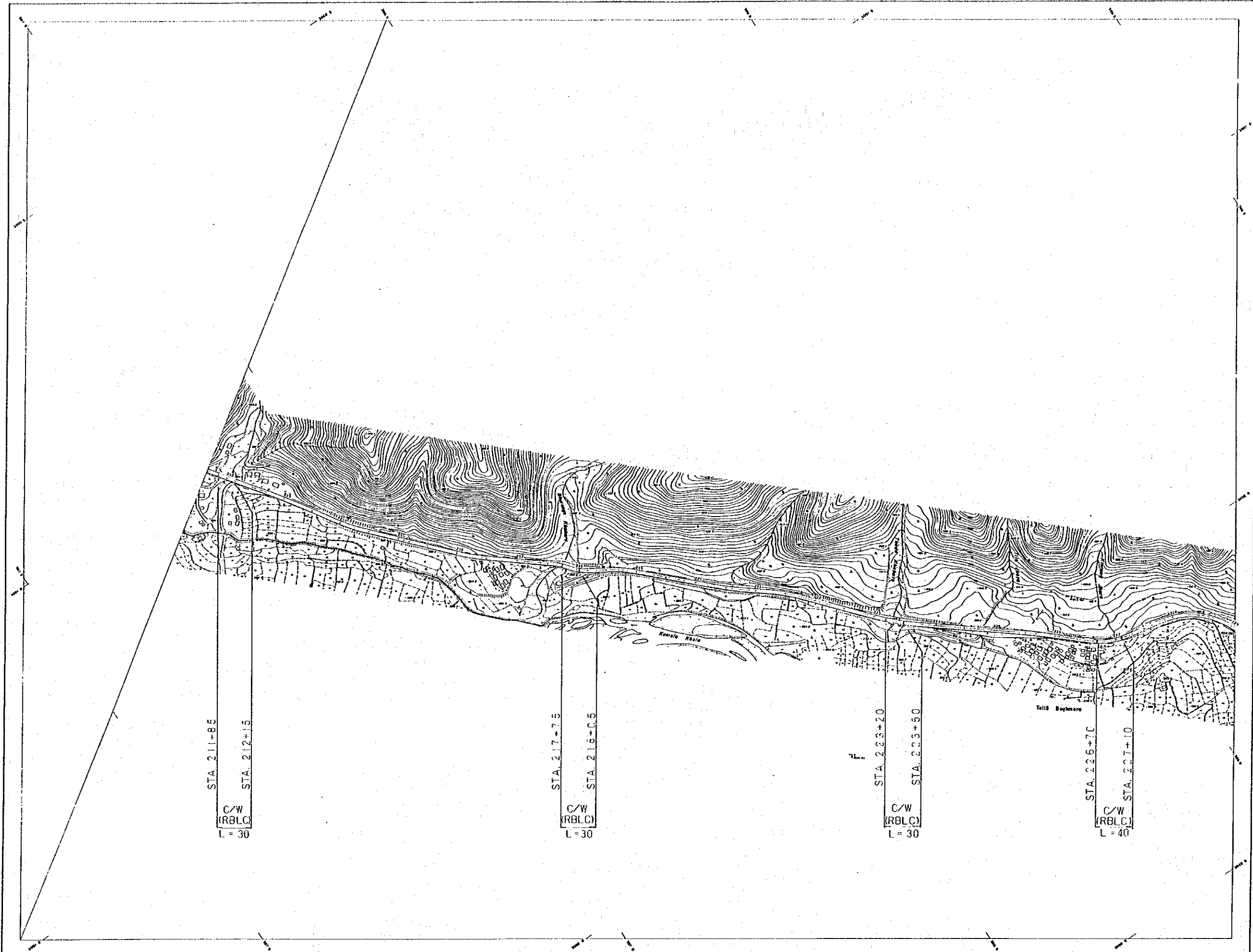
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JAPAN INTERNATIONAL COOPERATION AGENCY

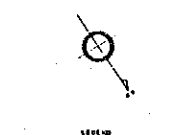






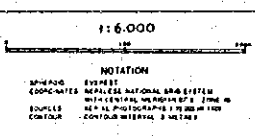


True North is 82° 16' 00\"/>



- LEI
- TRICHOMETRICAL STATION
- TRAVELER POST
- BENCH MARK
- SPOT HEIGHT (UNCHECKED HEIGHT)
- SPOT HEIGHT (CHECKED HEIGHT)
- CONCRETE WALL
- BUILDING
- BUILDING WITHOUT WALLS
- ROAD
- FOOT PATH
- CUTTING
- EMBANKMENT
- GRADE
- QUARRY
- FOOT BRIDGE
- BRIDGE
- LIGHT RAILWAY
- LAND CLASSIFICATION BOUNDARY
- CULTIVATION BOUNDARY
- FENCE WEDGE WALL
- LEVEL
- TEMPLE
- HOSPITAL
- WELL
- WATER TOWER
- STONE STEP
- CENTRE
- POWER STATION TOWER LINE
- PADDY FIELD
- CULTIVATION
- WATER CANAL
- BANANA
- GRASSLAND
- BUSH
- BAMBOO
- SHOULDER EDGE
- WALL LEADER EDGE
- TUNNEL
- SAND GRATE
- WATER
- TEMPERATURE GAUGE
- WATER
- WELL
- WATERMILL
- WATER WEIR
- FLOW ARROW
- ROAD PROTECTION
- RAIL
- RAILROAD
- WIRE BOUNDARY
- STANDARD CONTOUR
- WELL METEOROLOGICAL CONTOUR
- SUPPLEMENTARY CONTOUR
- DEPRESSION CONTOUR
- DUFF
- MOUNTAIN OFF
- OUTCROP ROCK
- LAND SLIDE

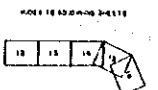
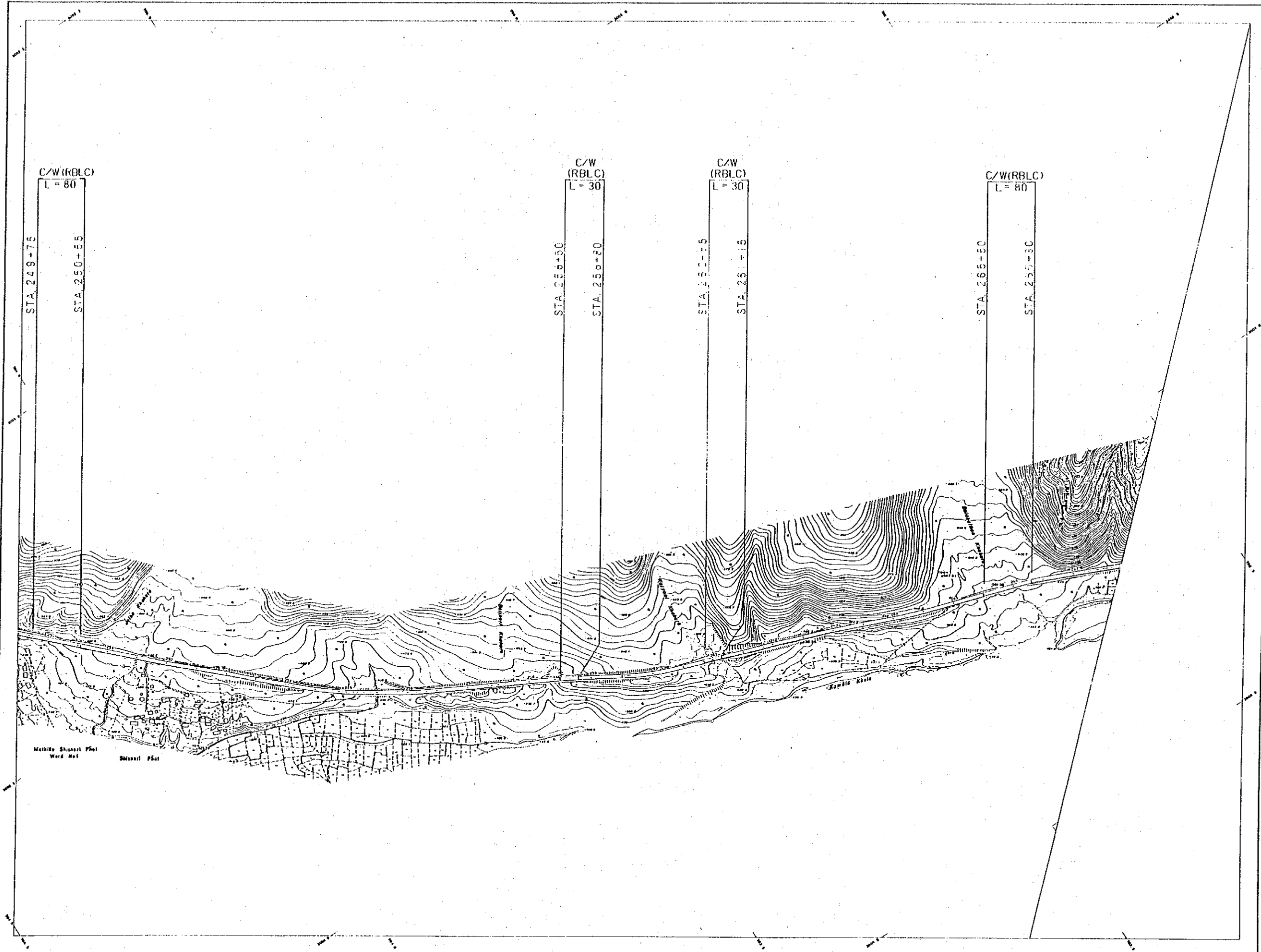
DEPARTMENT OF HIGHWAY, MINISTRY OF WORKS AND TRANSPORT  
HIS MAJESTY'S GOVERNMENT OF NEPAL



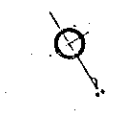
HIS MAJESTY'S GOVERNMENT OF NEPAL MINISTRY OF WORKS AND TRANSPORT DEPARTMENT OF ROADS		
AFTERCARE STUDY FOR		
SINDHURAJ ROAD CONSTRUCTION PROJECT		
PLAN	SECTION 1	SHEET NO A-12
SCALE	1:600	DATE
JAPAN INTERNATIONAL COOPERATION AGENCY		

JAPAN INTERNATIONAL COOPERATION AGENCY





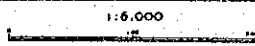
Scale 1:5000



Legend

- ENCLOSURE (TRIAL) STATION
- TRAP POINT
- BENCH MARK
- SPOT HEIGHT (CONCRETE HEAD)
- SPOT HEIGHT (CONCRETE HEAD)
- ENCLOSURE MARK
- BUILDING
- BUILDING WITH ROOF RAILE
- ROAD
- FOOT PATH
- CUTLINE
- EMBANKMENT
- BRIDGE
- CULVERT
- FOOT BRIDGE
- RAILWAY
- LIGHT RAILWAY
- LAND CLASSIFICATION BOUNDARY
- CULTIVATION BOUNDARY
- FENCE HEDGE WALL
- LEVEL
- TEMPLE
- HOSPITAL
- SCHOOL
- MINI STORE
- STONE STEP
- STAIRWAY
- POPLE TRANSMISSION LINE
- PADDY FIELD
- CULTIVATION
- MEADOW
- BARREN
- SPARSALAND
- ALAN
- BAMBOO
- BROAD LEAVED TREE
- NARROW LEAVED TREE
- SWAMP
- SAND BANK
- DITCH
- NEUTRALIZATION CHANNEL
- WELL
- GATE
- WATERFALL
- PILE BRIDGE
- FLOOD APRON
- SLAM PROTECTION
- DAM
- LAKE POND
- ARMY ROAD
- HOPE CONTOUR
- STANDARD CONTOUR
- HALF METRAL CONTOUR
- SUPPLEMENTARY CONTOUR
- DEPRESSION CONTOUR
- CLIFF
- ROCK CLIFF
- OUTCROP ROCK
- LAND BLANK

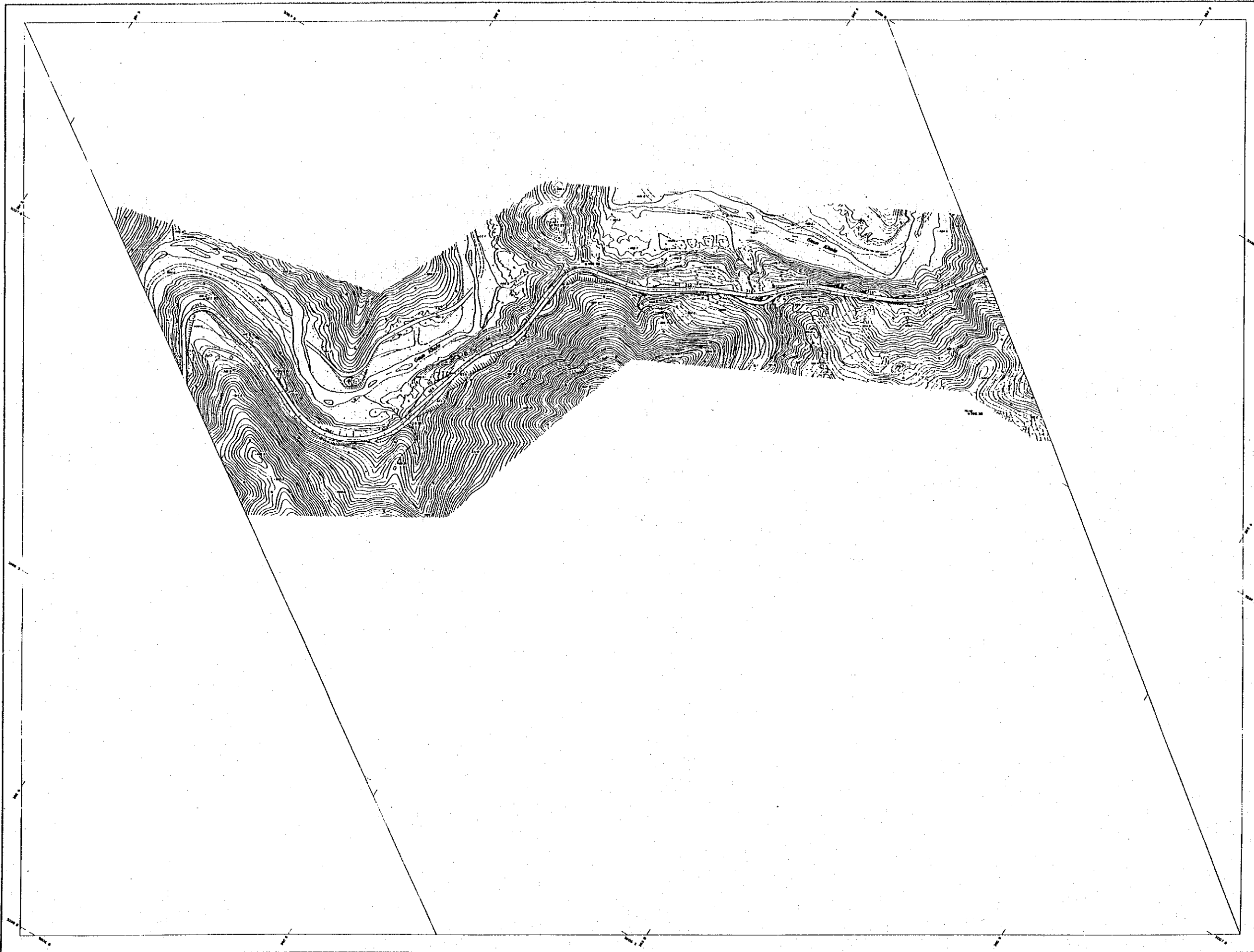
HIS MAJESTY'S GOVERNMENT OF NEPAL		
MINISTRY OF WORKS AND TRANSPORT		
DEPARTMENT OF ROADS		
FOR		
SINDHURA ROAD CONSTRUCTION PROJECT		
PLAN	SECTION I	SHEET NO
		A-14
SCALE	1:5000	DATE
JAPAN INTERNATIONAL COOPERATION AGENCY		



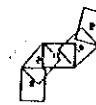
NOTATION  
 SPHERE: CENTER  
 CIRCULAR: NEPALESE NATIONAL GRID SYSTEM  
 SQUARE: NEPALESE NATIONAL GRID SYSTEM  
 TRIANGLE: NEPALESE NATIONAL GRID SYSTEM  
 CONTOUR: CONTOUR INTERVAL: 5 METERS







INDEX TO ADJACENT SHEETS



Scale 1:5,000



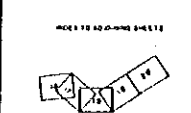
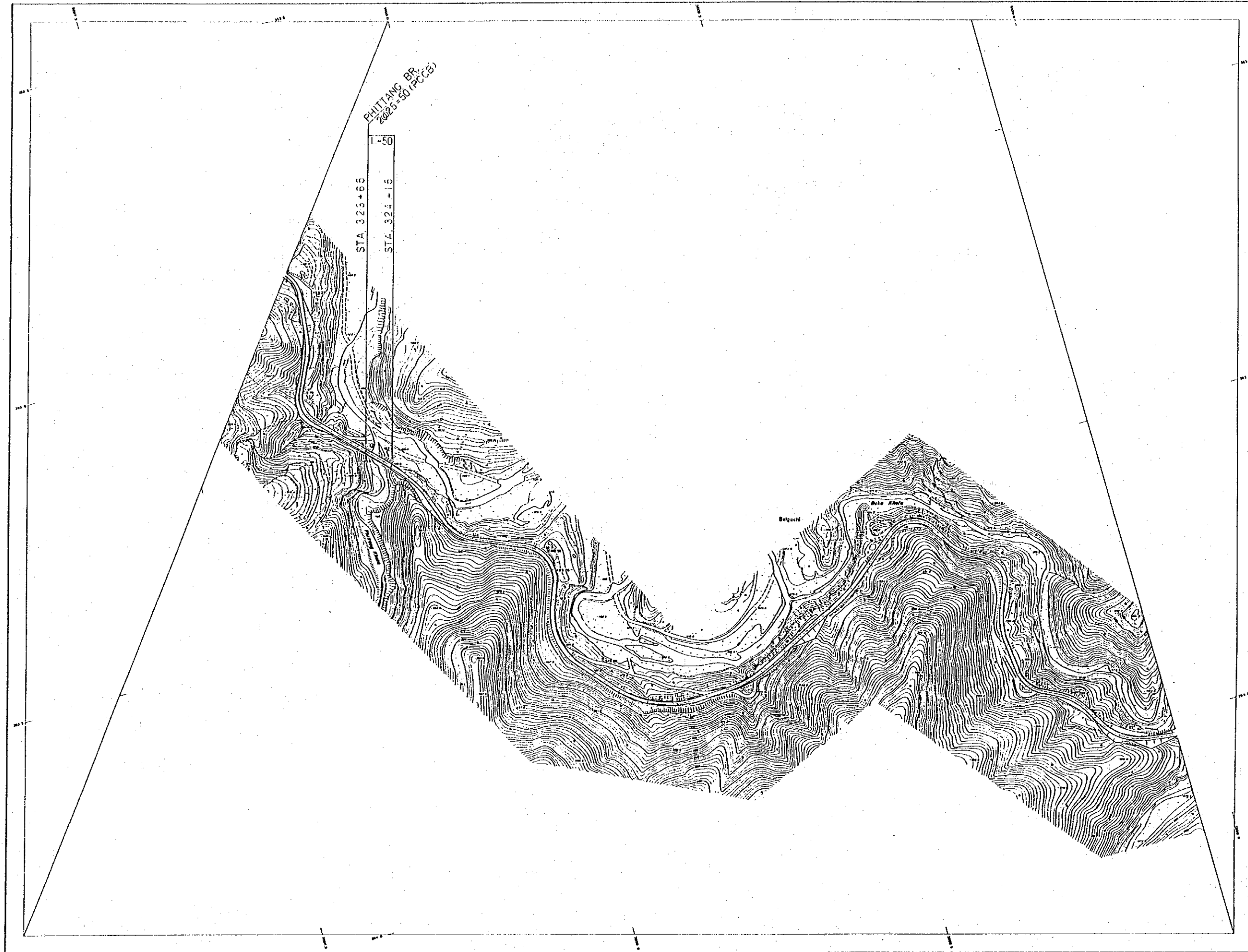
LEGEND

TRAVELING SIGNAL STATION	01222
TRAVELING SIGNAL	01223
BEACH MARK	01224
SPOT HEIGHT (METERS)	01225
SPOT HEIGHT (METERS)	01226
CONCRETE BUILDING	01227
BRICK BUILDING	01228
WALL WITH CORNER WALL	01229
WALL	01230
FOOT PATH	01231
OUTLINE	01232
EMBANKMENT	01233
DITCH	01234
QUARRY	01235
ROAD BRIDGE	01236
RAILWAY	01237
RAILWAY BRIDGE	01238
RAILWAY BRIDGE	01239
RAILWAY BRIDGE	01240
RAILWAY BRIDGE	01241
RAILWAY BRIDGE	01242
RAILWAY BRIDGE	01243
RAILWAY BRIDGE	01244
RAILWAY BRIDGE	01245
RAILWAY BRIDGE	01246
RAILWAY BRIDGE	01247
RAILWAY BRIDGE	01248
RAILWAY BRIDGE	01249
RAILWAY BRIDGE	01250
RAILWAY BRIDGE	01251
RAILWAY BRIDGE	01252
RAILWAY BRIDGE	01253
RAILWAY BRIDGE	01254
RAILWAY BRIDGE	01255
RAILWAY BRIDGE	01256
RAILWAY BRIDGE	01257
RAILWAY BRIDGE	01258
RAILWAY BRIDGE	01259
RAILWAY BRIDGE	01260
RAILWAY BRIDGE	01261
RAILWAY BRIDGE	01262
RAILWAY BRIDGE	01263
RAILWAY BRIDGE	01264
RAILWAY BRIDGE	01265
RAILWAY BRIDGE	01266
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RAILWAY BRIDGE	01276
RAILWAY BRIDGE	01277
RAILWAY BRIDGE	01278
RAILWAY BRIDGE	01279
RAILWAY BRIDGE	01280
RAILWAY BRIDGE	01281
RAILWAY BRIDGE	01282
RAILWAY BRIDGE	01283
RAILWAY BRIDGE	01284
RAILWAY BRIDGE	01285
RAILWAY BRIDGE	01286
RAILWAY BRIDGE	01287
RAILWAY BRIDGE	01288
RAILWAY BRIDGE	01289
RAILWAY BRIDGE	01290
RAILWAY BRIDGE	01291
RAILWAY BRIDGE	01292
RAILWAY BRIDGE	01293
RAILWAY BRIDGE	01294
RAILWAY BRIDGE	01295
RAILWAY BRIDGE	01296
RAILWAY BRIDGE	01297
RAILWAY BRIDGE	01298
RAILWAY BRIDGE	01299
RAILWAY BRIDGE	01300

NOTATION  
 ELEVATION: NEPALESE NATIONAL GRID SYSTEM  
 COORDINATE: BY CENTRAL MERIDIAN OF 85° 30' E  
 SOURCE: AERIAL PHOTOGRAPHY & SURVEY IN 1958  
 CONTOUR: INTERVAL 2 METERS

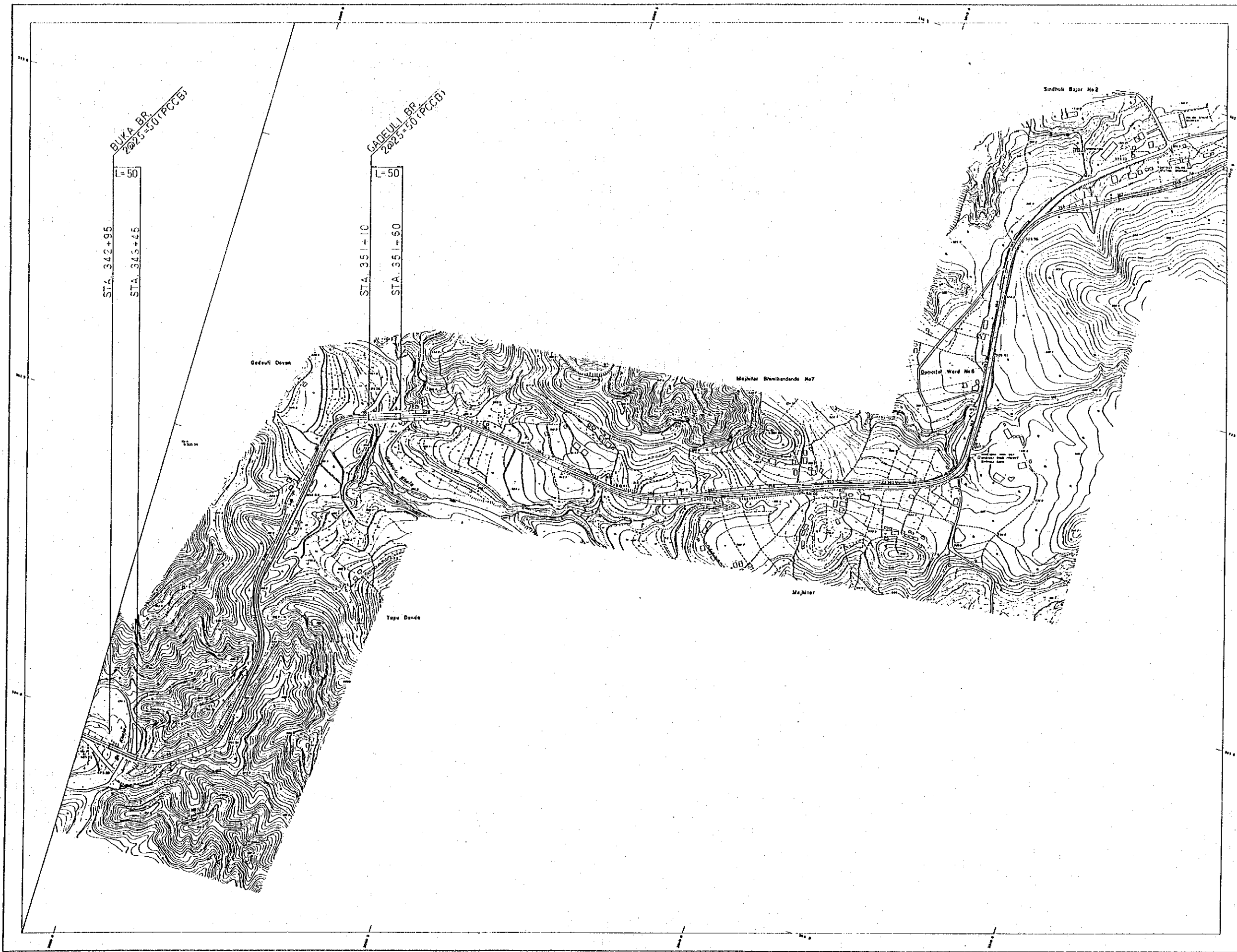
HIS MAJESTY'S GOVERNMENT OF NEPAL MINISTRY OF WORKS AND TRANSPORT DEPARTMENT OF ROAD		
AFTERCARE STUDY FOR SINDHURJ ROAD CONSTRUCTION PROJECT		
PLAN	SECTION 1	SHEET NO. A-17
SCALE: 1:500	DATE:	
JAPAN INTERNATIONAL COOPERATION AGENCY		





LEGEND

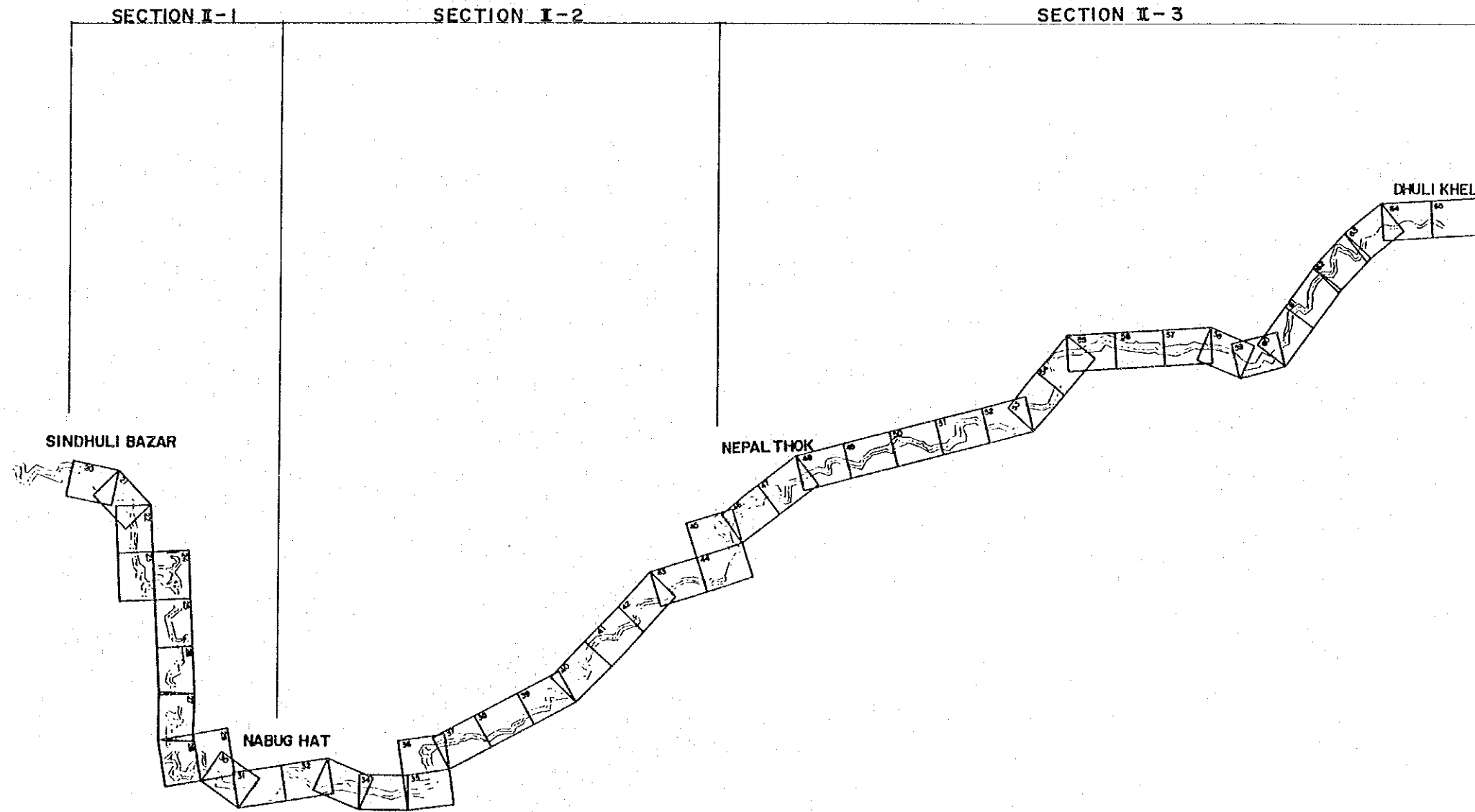
TRICHOMETRICAL STATION	○
TRAVELER POINT	●
BEACH MARK	○
SPOT HEIGHT (CHECKED HEIGHT)	○
SPOT HEIGHT (UNCHECKED HEIGHT)	○
CONCRETE BUILDING	▭
BUILDING	▭
BUILDING WITHOUT WALL	▭
ROAD	—
FOOT PATH	—
CUTTING	—
EMBANKMENT	—
BRIDGE	—
DRAINAGE	—
FOOT BRIDGE	—
TRAIL	—
LINE BOUNDARY	—
LAND CLASSIFICATION BOUNDARY	—
CONTINUATION BOUNDARY	—
FENCE (WOOD WALL)	—
LEVEL	—
TEMPLE	—
WATER TOWER	—
SCHOOL	—
HIGH TOWER	—
STONE STEP	—
CEMETERY	—
POWER TRANSMISSION LINE	—
PADDY FIELD	—
CULTIVATION	—
BURMINGHAM	—
BARREN LAND	—
BARREN	—
BANDED	—
BROAD LEAVED TREE	—
NEEDLE LEAVED TREE	—
TREE	—
EMERALD	—
SAND GRAVEL	—
DITCH	—
RETAINMENT WALL	—
WALL	—
DATE	—
WATERFALL	—
POSSIBLE	—
FLY SAND	—
SAND PROTECTION	—
DAIRY	—
LAKE POND	—
BROWN ROCK	—
WELL	—
STANDARD CONTOUR	—
WELL INTERNAL CONTOUR	—
SUPPLEMENTARY CONTOUR	—
DEPRESSION CONTOUR	—
CLIFF	—
ROCKY CLIFF	—
OUTCROP ROCK	—
LANDSLIDE	—



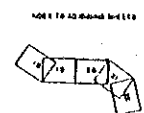
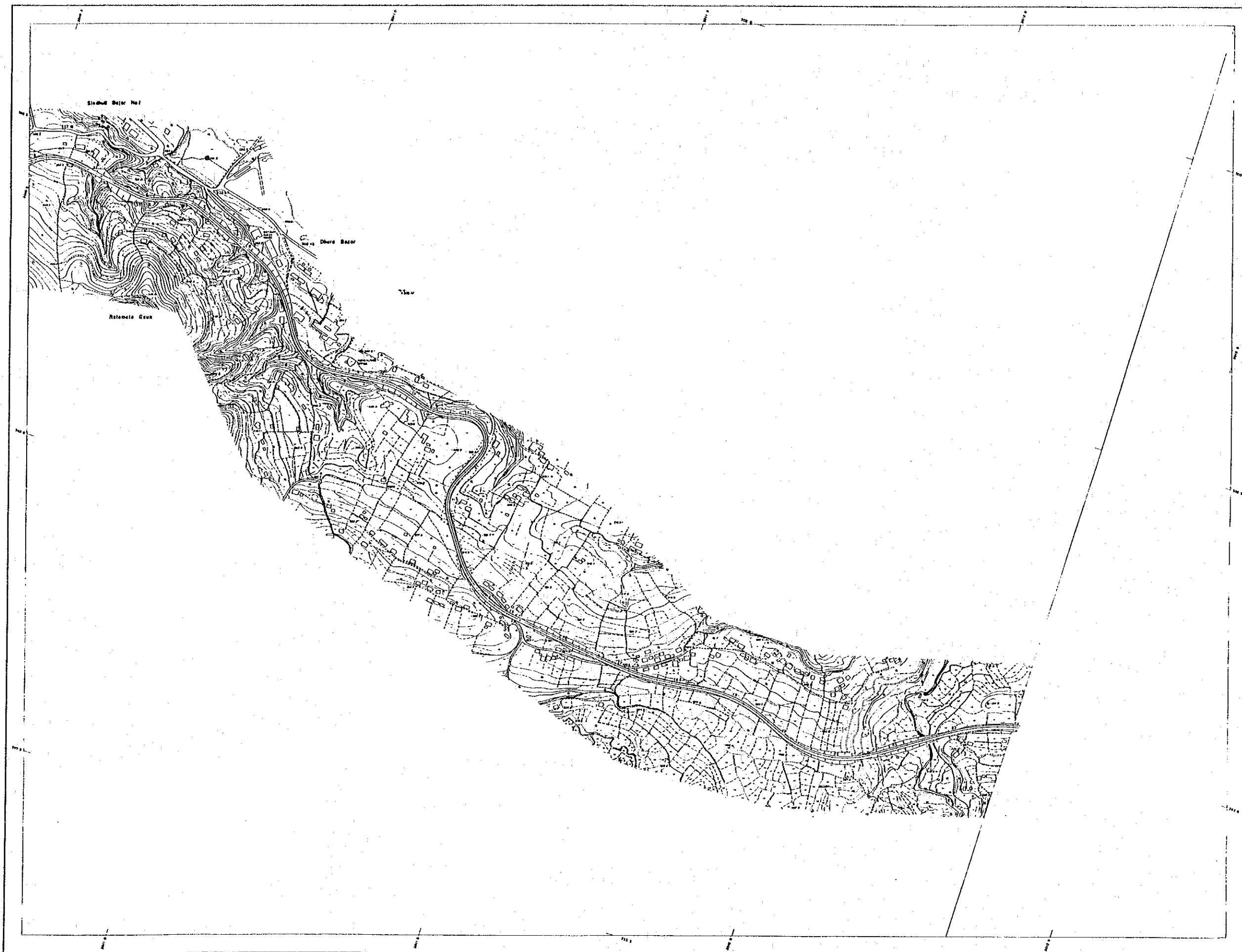
SYMBOL	
	TRIGONOMETRICAL STATION
	BENCH MARK
	SPOT HEIGHT (CHECKED HEIGHT)
	SPOT HEIGHT (UNCHECKED HEIGHT)
	CONCRETE BUILDING
	MUD BUILDING
	BUILDING WITHOUT WALLS
	ROAD
	FOOT PATH
	CULVERT
	FOOT BRIDGE
	RAILWAY
	LIGHT RAILWAY
	LAND CLASSIFICATION BOUNDARY
	CULTIVATION BOUNDARY
	FENCE (WOOL WALL)
	CLIFF
	TEMPLE
	WELL
	SCHOOL
	MONUMENT
	STONE STEP
	CEMETERY
	POWER TRANSMISSION LINE
	FLOOD PLAIN
	PASTURE
	BUSHLAND
	FIELD
	MARSH
	SWAMP
	SAND BAR
	DITCH
	METAL/INLAND WALL
	HUT
	CAVE
	WATERFALL
	PILED-UP ROAD
	FLOW MARGIN
	SAND PROTECTION
	DAM
	LAKE POND
	EMBANKMENT
	HOLE CONTOUR
	STANDARD CONTOUR
	HALF INTERVAL CONTOUR
	SUPPLEMENTAL CONTOUR
	DEPRESSION CONTOUR
	CLIFF
	ROCK CLIFF
	INLAND WALL
	LANDMARK

HIS MAJESTY'S GOVERNMENT OF NEPAL		
MINISTRY OF WORKS AND TRANSPORT		
DEPARTMENT OF ROADS		
AFTERCARE STUDY FOR		
SIDDHARAJ ROAD CONSTRUCTION PROJECT		
PLAN	SECTION I	SHEET NO. A-19
SCALE	1:800	DATE
JAPAN INTERNATIONAL COOPERATION AGENCY		

# PLAN INDEX (SECTION II)



HIS MAJESTY'S GOVERNMENT OF NEPAL	
MINISTRY OF WORKS AND TRANSPORT	
DEPARTMENT OF ROADS	
FORWARD STUDY	
FOR	
SINDHULI ROAD CONSTRUCTION PROJECT	
PLAN INDEX (SECTION II)	SHEET NO. A-03
SCALE	DATE
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From March 1970 to 1971



LEGEND

TRAVELING STATION	ALTS 00
TRAVELING POINT	ALTS 20
TRAVELING MARK	ALTS 40
TRAVELING POINT (CONCRETE MARK)	ALTS 60
TRAVELING POINT (CONCRETE MARK)	ALTS 80
CONCRETE BUILDING	ALTS 100
BUILDING	ALTS 120
BUILDING WITHOUT WALLS	ALTS 140
ROAD	ALTS 160
FOOT PATH	ALTS 180
DITCH	ALTS 200
EMBANKMENT	ALTS 220
BRIDGE	ALTS 240
CULVERT	ALTS 260
FOOT BRIDGE	ALTS 280
RAILWAY	ALTS 300
RAILWAY	ALTS 320
LAND CLASSIFICATION BOUNDARY	ALTS 340
CULTIVATION BOUNDARY	ALTS 360
FIELD BOUNDARY	ALTS 380
LEVEL	ALTS 400
TEMPLE	ALTS 420
HOSPITAL	ALTS 440
MOON	ALTS 460
HILL TOWER	ALTS 480
STONE STEP	ALTS 500
WATER	ALTS 520
POOR FERTILIZATION LINE	ALTS 540
FLOOD FIELD	ALTS 560
CULTIVATION	ALTS 580
ROADWAY	ALTS 600
SIGNAL	ALTS 620
BARRIAGE	ALTS 640
WATER	ALTS 660
ROAD LEAVING THE	ALTS 680
TEMPLE LEAVING THE	ALTS 700
TEMPLE	ALTS 720
TEMPLE	ALTS 740
TEMPLE	ALTS 760
TEMPLE	ALTS 780
TEMPLE	ALTS 800
TEMPLE	ALTS 820
TEMPLE	ALTS 840
TEMPLE	ALTS 860
TEMPLE	ALTS 880
TEMPLE	ALTS 900
TEMPLE	ALTS 920
TEMPLE	ALTS 940
TEMPLE	ALTS 960
TEMPLE	ALTS 980
TEMPLE	ALTS 1000

HIS MAJESTY'S GOVERNMENT OF NEPAL  
 MINISTRY OF WORKS AND TRANSPORT  
 DEPARTMENT OF ROADS  
 AFTERCARE STUDY  
 FOR  
 SINDHULI ROAD CONSTRUCTION PROJECT  
 PLAN SECTION III SHEET NO. A-20  
 SCALE 1:500 DATE  
 JAPAN INTERNATIONAL COOPERATION AGENCY

1:6,000  
 NOTATION  
 SPACING SYSTEM  
 CONTOUR INTERVAL SYSTEM  
 SOURCE  
 CONTOUR INTERVAL SYSTEM



INDEX TO ADJOINING SHEETS

FROM MAP NO. 20/1 OF PRESENT

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TRIANGULAR STATION	412.10
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BOUNDARY	812.15
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SPOT HEIGHT CHECKER (H-02)	112.11
CONCRETE BUILDING	112.10
RAILWAY	112.09
RAILWAY BRIDGE	112.08
RAILWAY TUNNEL	112.07
RAILWAY PLATFORM	112.06
RAILWAY SIGNAL	112.05
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RAILWAY TELEPHONE	112.03
RAILWAY WATER TOWER	112.02
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RAILWAY SIGNAL POST	111.98
RAILWAY TELEPHONE POLE	111.97
RAILWAY TELEGRAPH POLE	111.96
RAILWAY WATER TOWER	111.95
RAILWAY POWER HOUSE	111.94
RAILWAY SIGNAL BOX	111.93
RAILWAY SIGNAL POST	111.92
RAILWAY TELEPHONE POLE	111.91
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RAILWAY WATER TOWER	111.89
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RAILWAY SIGNAL POST	111.86
RAILWAY TELEPHONE POLE	111.85
RAILWAY TELEGRAPH POLE	111.84
RAILWAY WATER TOWER	111.83
RAILWAY POWER HOUSE	111.82
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RAILWAY TELEPHONE POLE	111.79
RAILWAY TELEGRAPH POLE	111.78
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RAILWAY TELEGRAPH POLE	111.48
RAILWAY WATER TOWER	111.47
RAILWAY POWER HOUSE	111.46
RAILWAY SIGNAL BOX	111.45
RAILWAY SIGNAL POST	111.44
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RAILWAY TELEGRAPH POLE	111.42
RAILWAY WATER TOWER	111.41
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RAILWAY SIGNAL POST	111.32
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RAILWAY TELEPHONE POLE	110.04
RAILWAY TELEGRAPH POLE	110.03
RAILWAY WATER TOWER	110.02
RAILWAY POWER HOUSE	110.01

THE MAJESTY'S GOVERNMENT OF NEPAL  
 MINISTRY OF WORKS AND TRANSPORT  
 DEPARTMENT OF ROADS

PRELIMINARY STUDY  
 FOR  
 SINDHUR ROAD CONSTRUCTION PROJECT

PLAN SECTION III

SCALE 1:6,000

DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

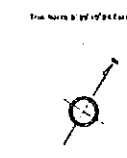
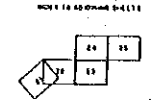
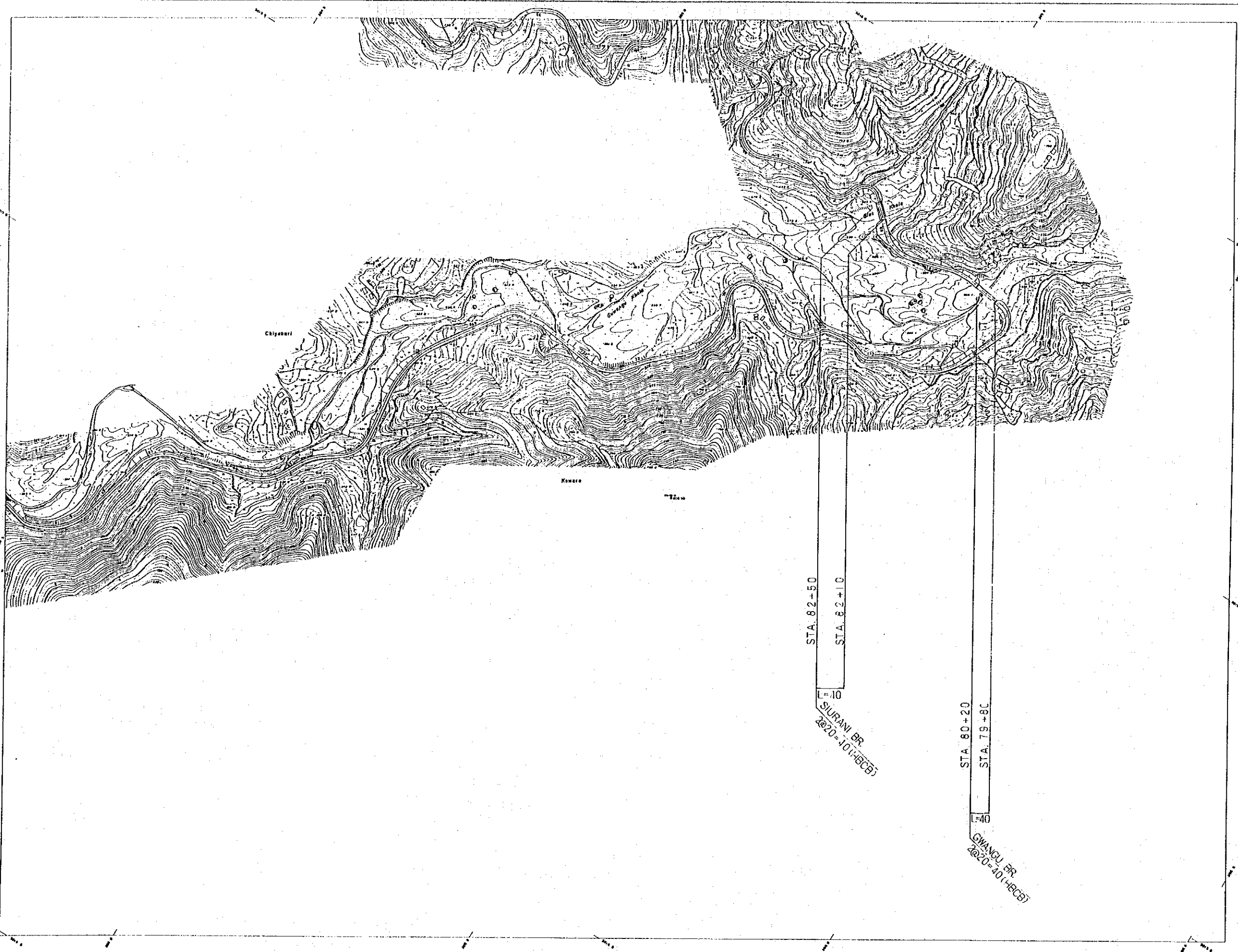
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DEPARTMENT OF ROADS, MINISTRY OF WORKS AND TRANSPORT,  
 HIS MAJESTY'S GOVERNMENT OF NEPAL.

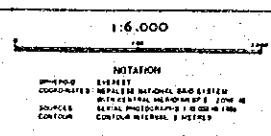
JAPAN INTERNATIONAL COOPERATION AGENCY

NOTATION  
 SPHERE: BENCHMARK  
 TRIANGLE: NATIONAL SPOT SYSTEM  
 SQUARE: NATIONAL SPOT SYSTEM  
 SOURCE: PHOTOGRAMMETRIC DATA  
 CONTROL: 1:25,000 SCALE



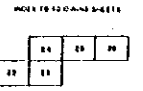


- LEGEND**
- |                                 |          |
|---------------------------------|----------|
| TRIGONOMETRIC STATION           | 4-23 21  |
| TRANGULAR POINT                 | 8-12 21  |
| REINO MARK                      | 8-12 21  |
| SPOT HEIGHT (CONCRETE HEIGHT)   | 1-1 21   |
| SPOT HEIGHT (UNCONCRETE HEIGHT) | 1-1 21   |
| <b>CONCRETE BUILDING</b>        |          |
| BUILDING                        | 2-1 21   |
| BUILDING WITH CUR WALLS         | 3-1 21   |
| ROAD                            | 4-1 21   |
| FOOT PATH                       | 5-1 21   |
| CUTLINE                         | 6-1 21   |
| ELEVATION                       | 7-1 21   |
| BANDS                           | 8-1 21   |
| RAILWAY                         | 9-1 21   |
| RAILWAY                         | 10-1 21  |
| RAILWAY                         | 11-1 21  |
| RAILWAY                         | 12-1 21  |
| RAILWAY                         | 13-1 21  |
| RAILWAY                         | 14-1 21  |
| RAILWAY                         | 15-1 21  |
| RAILWAY                         | 16-1 21  |
| RAILWAY                         | 17-1 21  |
| RAILWAY                         | 18-1 21  |
| RAILWAY                         | 19-1 21  |
| RAILWAY                         | 20-1 21  |
| RAILWAY                         | 21-1 21  |
| RAILWAY                         | 22-1 21  |
| RAILWAY                         | 23-1 21  |
| RAILWAY                         | 24-1 21  |
| RAILWAY                         | 25-1 21  |
| RAILWAY                         | 26-1 21  |
| RAILWAY                         | 27-1 21  |
| RAILWAY                         | 28-1 21  |
| RAILWAY                         | 29-1 21  |
| RAILWAY                         | 30-1 21  |
| RAILWAY                         | 31-1 21  |
| RAILWAY                         | 32-1 21  |
| RAILWAY                         | 33-1 21  |
| RAILWAY                         | 34-1 21  |
| RAILWAY                         | 35-1 21  |
| RAILWAY                         | 36-1 21  |
| RAILWAY                         | 37-1 21  |
| RAILWAY                         | 38-1 21  |
| RAILWAY                         | 39-1 21  |
| RAILWAY                         | 40-1 21  |
| RAILWAY                         | 41-1 21  |
| RAILWAY                         | 42-1 21  |
| RAILWAY                         | 43-1 21  |
| RAILWAY                         | 44-1 21  |
| RAILWAY                         | 45-1 21  |
| RAILWAY                         | 46-1 21  |
| RAILWAY                         | 47-1 21  |
| RAILWAY                         | 48-1 21  |
| RAILWAY                         | 49-1 21  |
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| RAILWAY                         | 100-1 21 |



HIS MAJESTY'S GOVERNMENT OF NEPAL MINISTRY OF WORKS AND TRANSPORT DEPARTMENT OF ROADS		
AFTERCARE STUDY FOR ROAD CONSTRUCTION PROJECT		
PLAN	SECTION 151	SHEET NO. A-23
SCALE 1:800	DATE	
JAPAN INTERNATIONAL COOPERATION AGENCY		

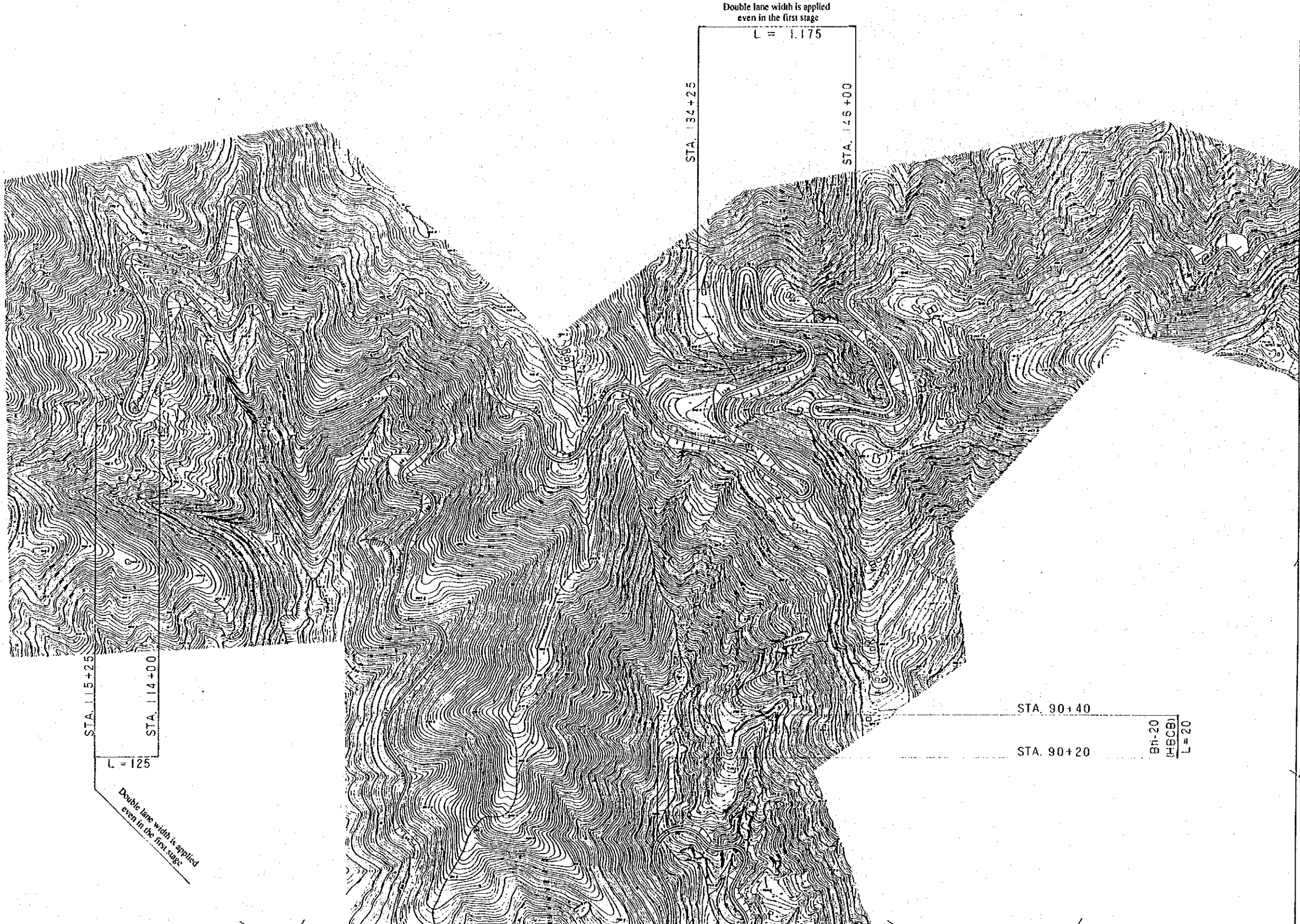




The North is 4° 15' E of True



- 1. PROPOSED ROAD STATION
- 2. EXISTING ROAD STATION
- 3. BENCH MARK
- 4. SPOT HEIGHT (ELEVATION HEIGHT)
- 5. SPOT HEIGHT (UNCORRECTED HEIGHT)
- 6. CONTOUR BOUNDARY
- 7. RAILWAY
- 8. BUILDING WITHOUT WALLS
- 9. WALL
- 10. FORT WALL
- 11. CULVERT
- 12. STAIRWAY
- 13. BRIDGE
- 14. GUY WIRE
- 15. FOOT BRIDGE
- 16. RAILWAY
- 17. TOWER FOOTING
- 18. LAND CLASSIFICATION BOUNDARY
- 19. CULTIVATION BOUNDARY
- 20. FENCE WOODEN WALL
- 21. FENCE
- 22. TEMPLE
- 23. HOSPITAL
- 24. SCHOOL
- 25. HIGH TOWER
- 26. STONE STEP
- 27. DEVIATION
- 28. POWER TRANSMISSION LINE
- 29. FLOOD FELD
- 30. CULTIVATION
- 31. MULTICANE
- 32. BRIDGE
- 33. BRIDGE
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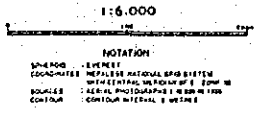


STA. 115+25  
STA. 114+00  
L = 125  
Double lane width is applied even in the first stage

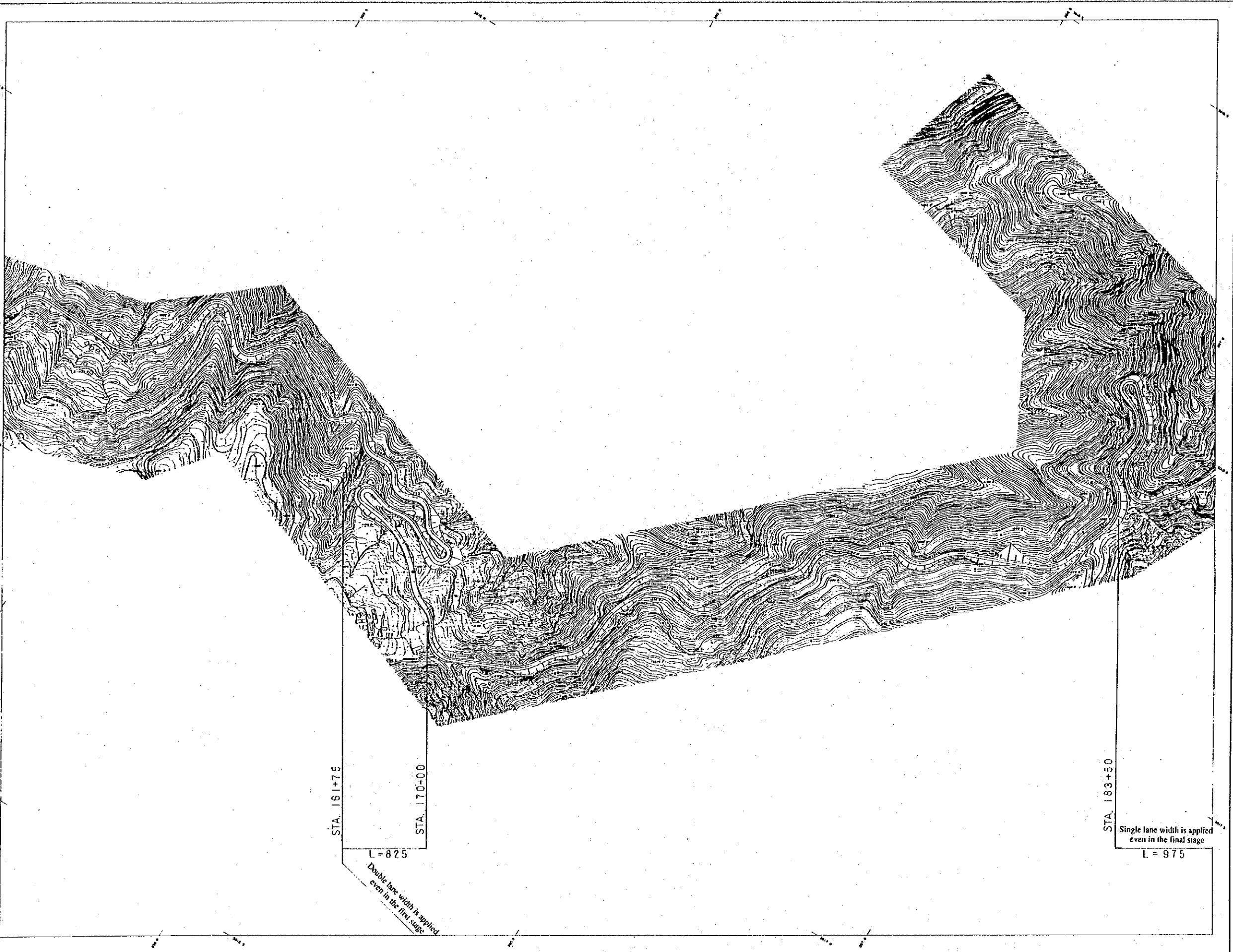
Double lane width is applied even in the first stage  
L = 1175  
STA. 134+25  
STA. 146+00

STA. 90+40  
STA. 90+20  
B=11-20 (HCB)  
L=20

HIS MAJESTY'S GOVERNMENT OF NEPAL		
MINISTRY OF WORKS AND TRANSPORT		
DEPARTMENT OF ROADS		
AFTERCARE STUDY		
FOR		
SINDURJI ROAD CONSTRUCTION PROJECT		
PLAN	SECTION B-1	SHEET NO. A-24
SCALE 1:500	DATE	
JAPAN INTERNATIONAL COOPERATION AGENCY		







AREA TO BE SHOWN SHEET			
26	27	28	29
31			

From North to East of 91 East



LEGEND

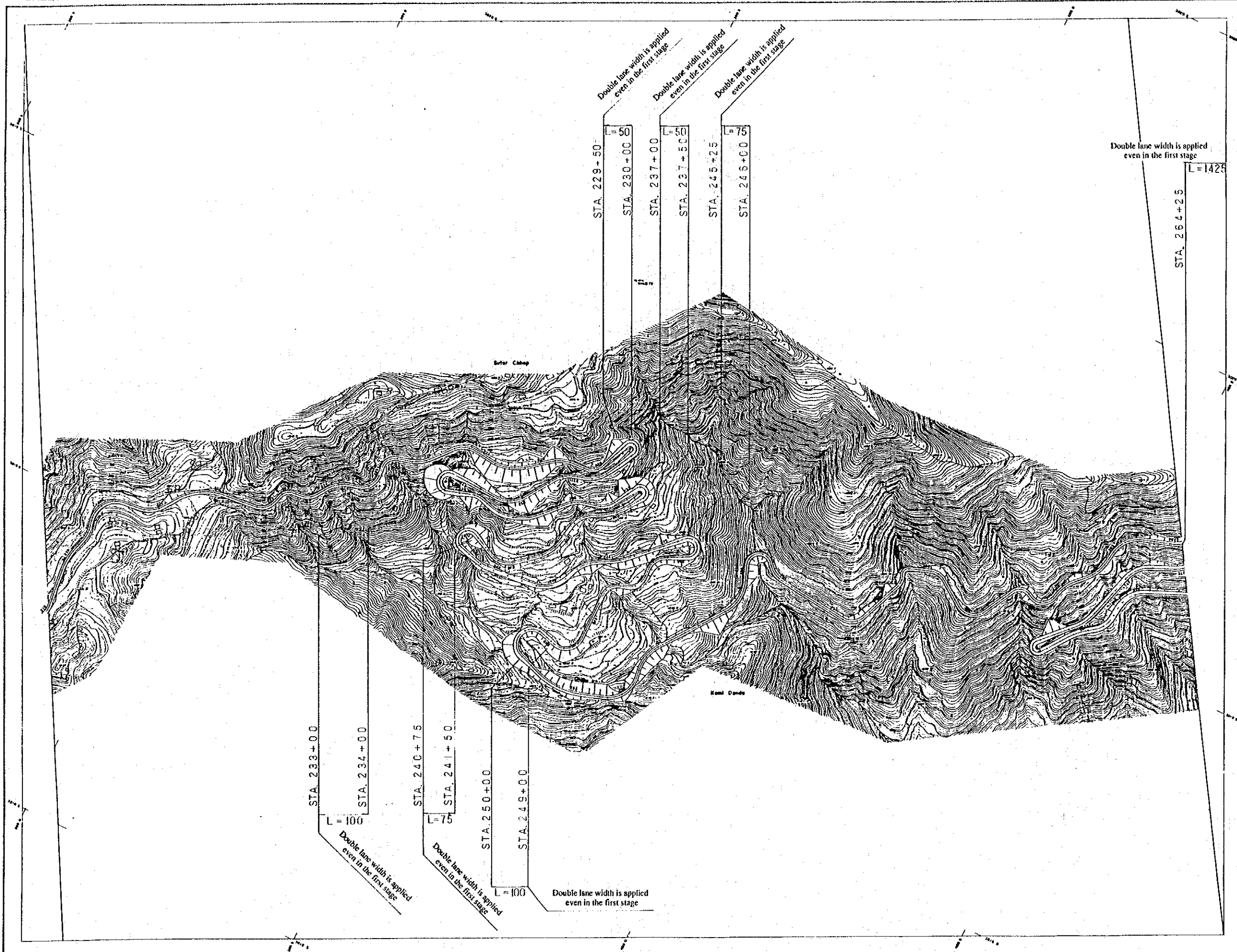
TRICHOMETRIC SYSTEM	40000
TRAVELER POST	41000
ROAD MARK	42000
300 FEET (91.44 METERS) HIGH	43000
300 FEET (91.44 METERS) HIGH	44000
CONCRETE BUILDING	45000
WOODEN BUILDING	46000
ROAD	47000
RAILWAY	48000
TELEPHONE	49000
WATER	50000
TEMPLE	51000
BRICK	52000
STONE	53000
WOOD	54000
GRASS	55000
PLANTATION	56000
BARREN	57000
WATER	58000
WATER COURSE	59000
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WATER	98000
WATER	99000
WATER	100000

JHS MAJESTY'S GOVERNMENT OF NEPAL  
MINISTRY OF WORKS AND TRANSPORT  
DEPARTMENT OF ROADS

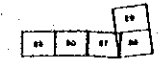
AFTERCARE STUDY  
FOR  
SINDURJI ROAD CONSTRUCTION PROJECT

PLAN	SECTION B-1	SHEET NO. A-25
SCALE 1:6000	DATE	
JAPAN INTERNATIONAL COOPERATION AGENCY		





SCALE TO BE AS SHOWN

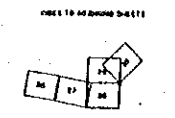
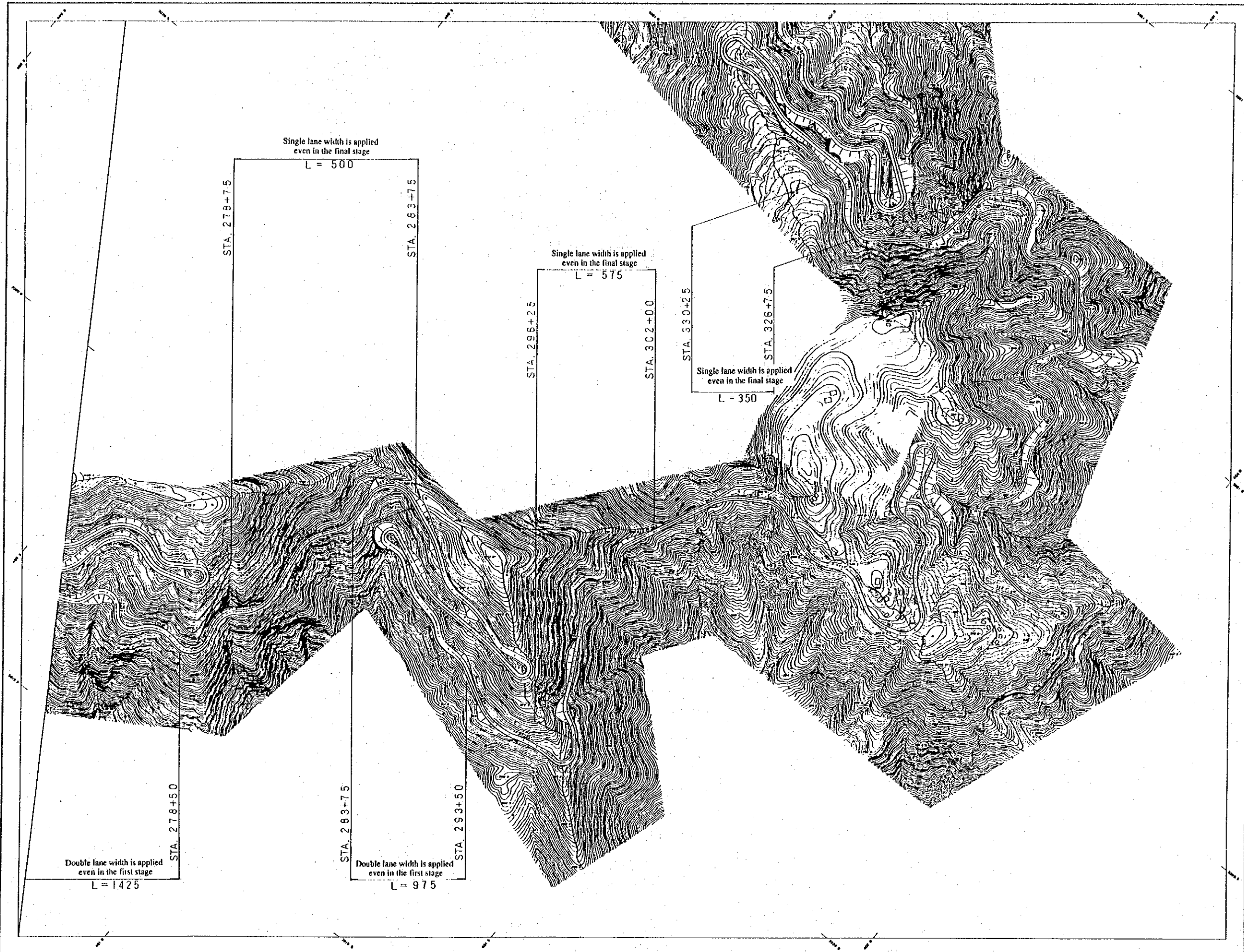


LEGEND

TRANSVERSE STATION	41240
TRANSVERSE POINT	81220
ROAD MARK	81210
SPOT HEIGHT (METERS)	12120
SPOT HEIGHT (METERS) (M-4-11)	12110
CONCRETE DRAINAGE	12100
GRAVEL DRAINAGE	12050
GRAVEL WITH BUTTRESS	12000
ROAD	11950
FOOT PATH	11900
DUTY ROAD	11850
CONCRETE ROAD	11800
DRAINAGE	11750
DRAINAGE	11700
FOOT BRIDGE	11650
RAILWAY	11600
1:1000	11550
ROAD CLASSIFICATION NUMBER	11500
RAILWAY CLASSIFICATION NUMBER	11450
RAILWAY	11400
RAILWAY	11350
RAILWAY	11300
RAILWAY	11250
RAILWAY	11200
RAILWAY	11150
RAILWAY	11100
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RAILWAY	10800
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RAILWAY	0

HIS MAJESTY'S GOVERNMENT OF NEPAL		
MINISTRY OF WORKS AND TRANSPORT		
DEPARTMENT OF ROADS		
APPROPRIATE STUDY		
FOR		
SINDHURJI ROAD CONSTRUCTION PROJECT		
PLAN	SECTION B-1	MARKING NO. A-27
SCALE	1:500	DATE
JAPAN INTERNATIONAL COOPERATION AGENCY		





PROPOSED ROAD	---
EXISTING ROAD	---
RAILROAD	---
...	...

HIS MAJESTY'S GOVERNMENT OF NEPAL	
MINISTRY OF WORKS AND TRANSPORT	
DEPARTMENT OF ROADS	
AFTERCARE STUDY FOR SINDHURJI ROAD CONSTRUCTION PROJECT	
PLAN	SECTION B-1
SCALE 1:800	DATE
JAPAN INTERNATIONAL COOPERATION AGENCY	

NOTATION  
 SPAN AND ELEVATION  
 COORDINATE SYSTEM  
 SOURCE OF DATA  
 CONTOUR INTERVAL