COUNTERMEASURES FOR SELECTED DISASTER SPOTS

DALTON PASS SECTION	
LOCATION OF DISASTER SPOTS (1)	20/52
LOCATION OF DISASTER SPOTS (2)	21/52
LOCATION OF DISASTER SPOTS (3)	22/52
COUNTERMEASURES FOR SPOT NO.III-11&12	23/52
COUNTERMEASURES FOR SPOT NO.III-14	24/52
COUNTERMEASURES FOR SPOT NO.III-37&38	25/52
COUNTERMEASURES FOR SPOT NO.III-50	26/52
COUNTERMEASURES FOR SPOT NO.III-66(b)	27/52
COUNTERMEASURES FOR SECTION Km.203+000 To Km.205+300	28/52
COUNTERMEASURES FOR SECTION Km.205+300 To Km.208+000	29/52
COUNTERMEASURES FOR SPOT NO.II-9	30/52
COUNTERMEASURES FOR SPOT NO.II-11(a)	31/52
COUNTERMEASURES FOR SPOT NO.II-14&15	32/52

MAHAPLAG-SOGOD SECTION	
LOCATION OF DISASTER SPOTS (1)	33/52
LOCATION OF DISASTER SPOTS (2)	34/52
COUNTERMEASURES FOR SPOT NO.VIII-71	35/52
COUNTERMEASURES FOR SPOT NO.VIII-80&81(1)	36/52
COUNTERMEASURES FOR SPOT NO.VIII-80&81(2)	37/52
COUNTERMEASURES FOR SPOT NO.VIII-89&90	38/52
COUNTERMEASURES FOR SPOT NO.VIII-93	39/52
COUNTERMEASURES FOR SPOT NO.VIII-100,101&102	40/52
COUNTERMEASURES FOR SPOT NO.VIII-108	41/52

KENNON ROAD	
LOCATION OF DISASTER SPOTS (1)	42/52
LOCATION OF DISASTER SPOTS (2)	43/52
COUNTERMEASURES FOR SPOT NO.IK-10(a)	44/52
COUNTERMEASURES FOR SPOT NO.IK-10(b)	45/52
COUNTERMEASURES FOR SPOT NO.IK-21,22,23&24	46/52
COUNTERMEASURES FOR SPOT NO.IK-24	47/52
COUNTERMEASURES FOR SPOT NO.IK-32,33,34&35-(1)	48/52
COUNTERMEASURES FOR SPOT NO.IK-32,33,34&35-(2)	49/52
COUNTERMEASURES FOR SPOT NO.IK-39,40,41&42-(1)	50/52
COUNTERMEASURES FOR SPOT NO.IK-39,40,41&42-(2)	51/52
COUNTERMEASURES FOR SPOT NO.IK-48	52/52

NOTE:

(1) TYPE OF DISASTER

- C-S.F CUT SLOPE SURFACE FAILURE
- C-D.F CUT SLOPE DEEP FAILURE
- E-D.F EMBANKMENT SLOPE DEEP FAILURE
- C-F ROCK FALL
- L.S LANDSLIDE
- D.F DEBRIS FLOW
- O.F OVERFLOW

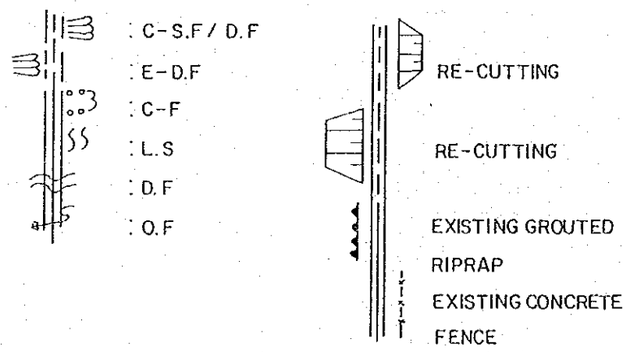
(2) COUNTERMEASURES

FOR DETAILS OF COUNTERMEASURES PLEASE SEE TYPICAL COUNTERMEASURES

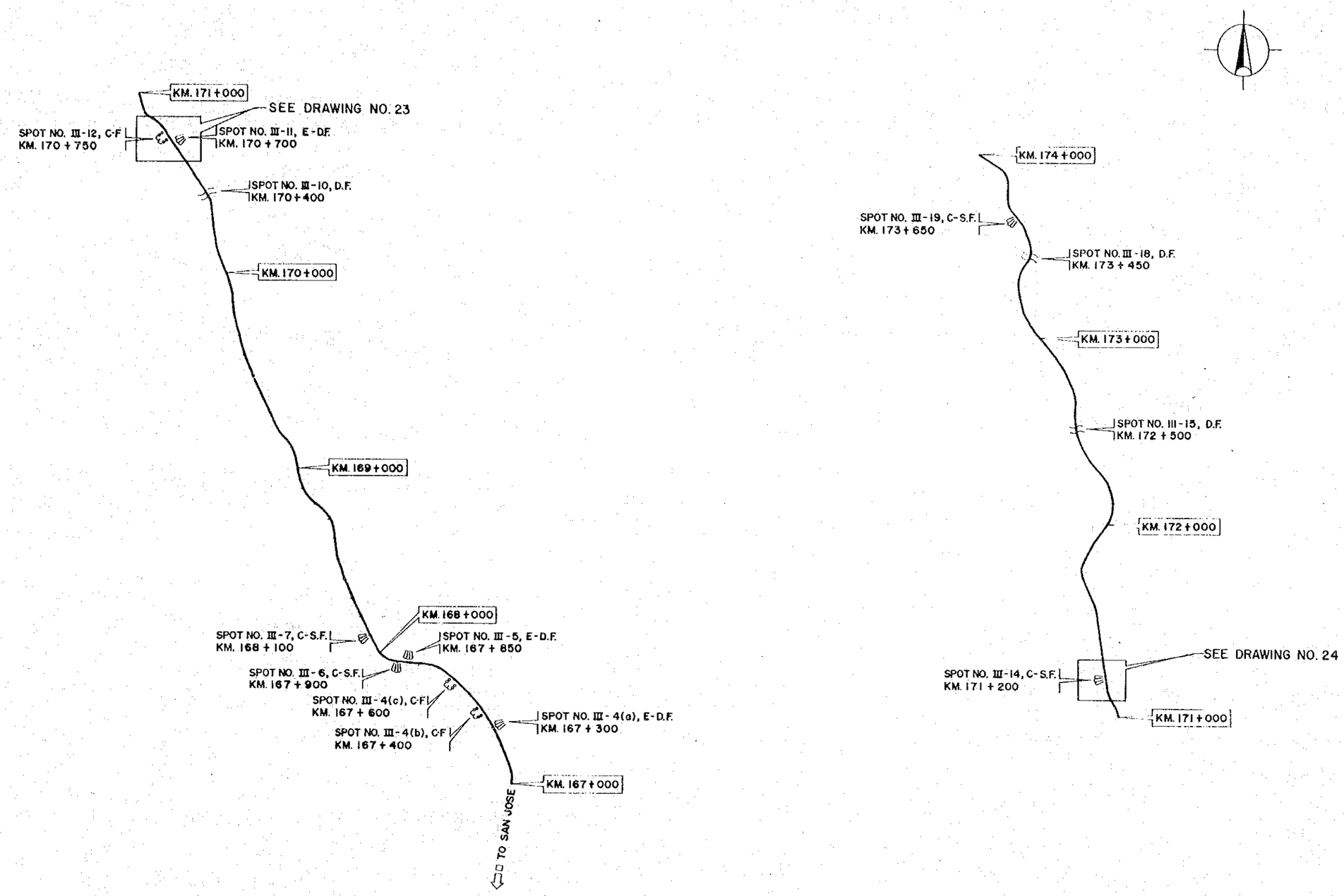
(3) ABBREVIATIONS

- L or ℓ : LENGTH
- H : HEIGHT
- Max.V.H : MAXIMUM VERTICAL HEIGHT
- EL : ELEVATION
- D.L : DATUM LINE

LEGEND:



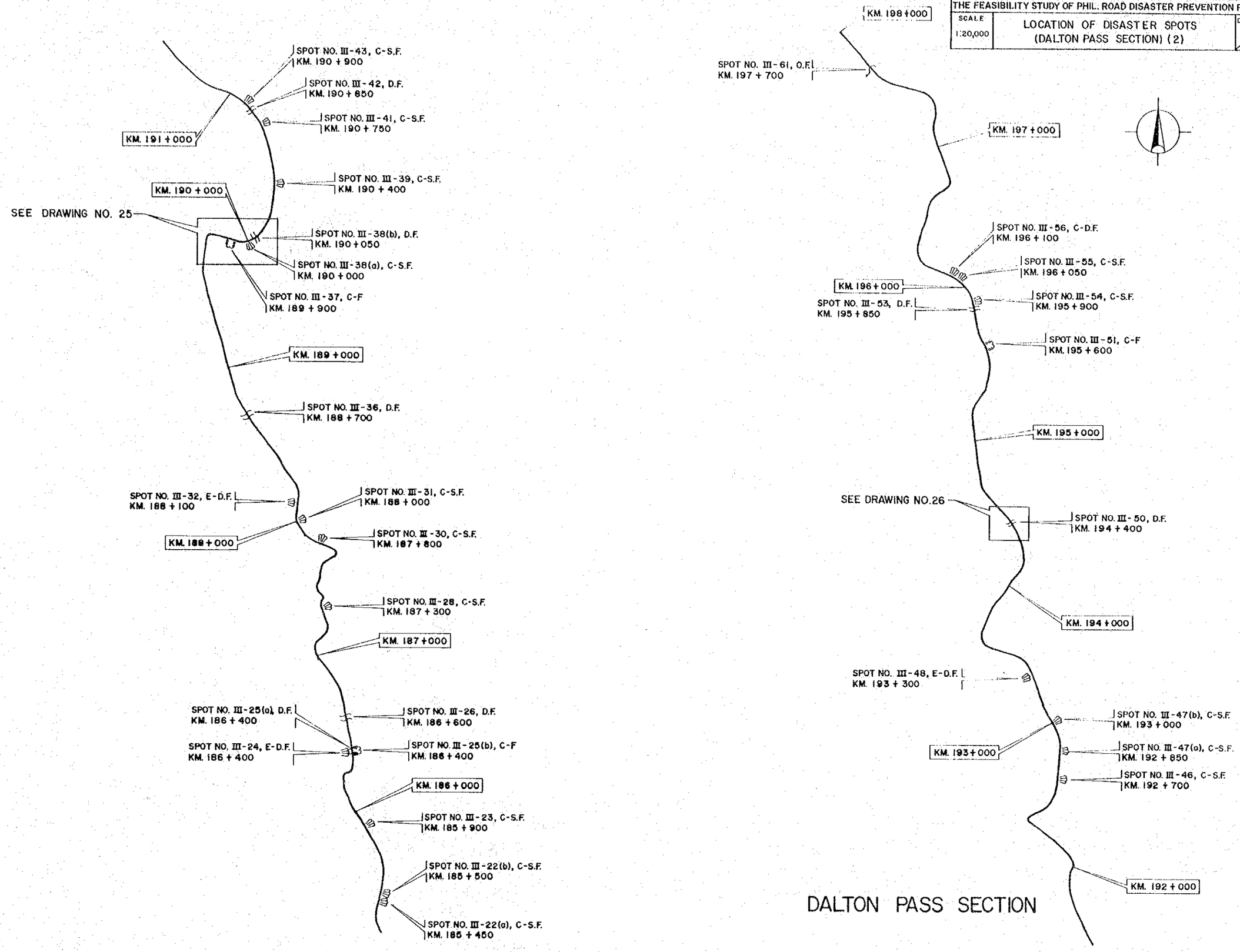
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:20,000	LOCATION OF DISASTER SPOTS (DALTON PASS SECTION) (I)	DRAWING NO. 20/52



DALTON PASS SECTION

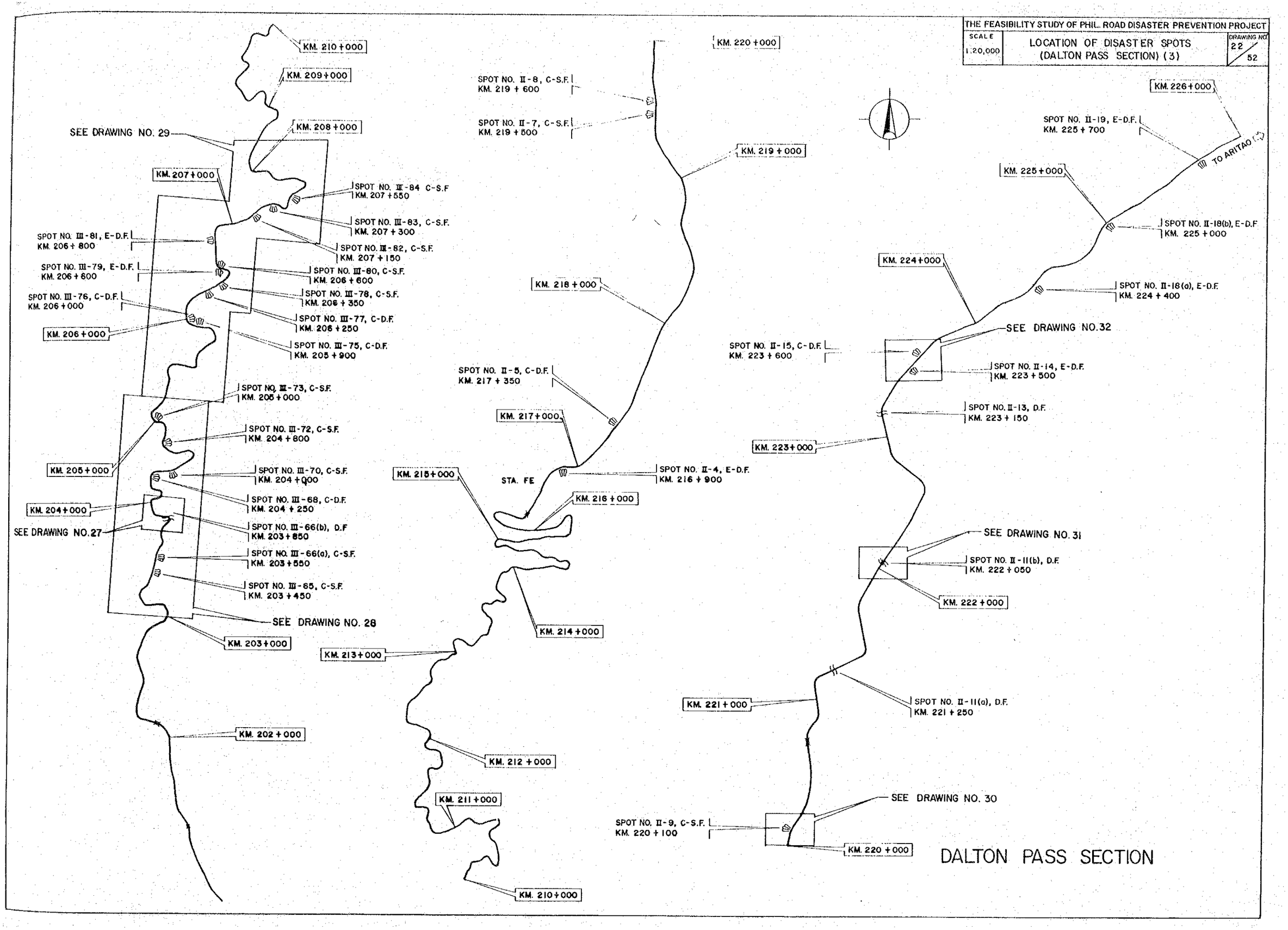
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT

SCALE	LOCATION OF DISASTER SPOTS (DALTON PASS SECTION) (2)	DRAWING NO.
1:20,000		21/52



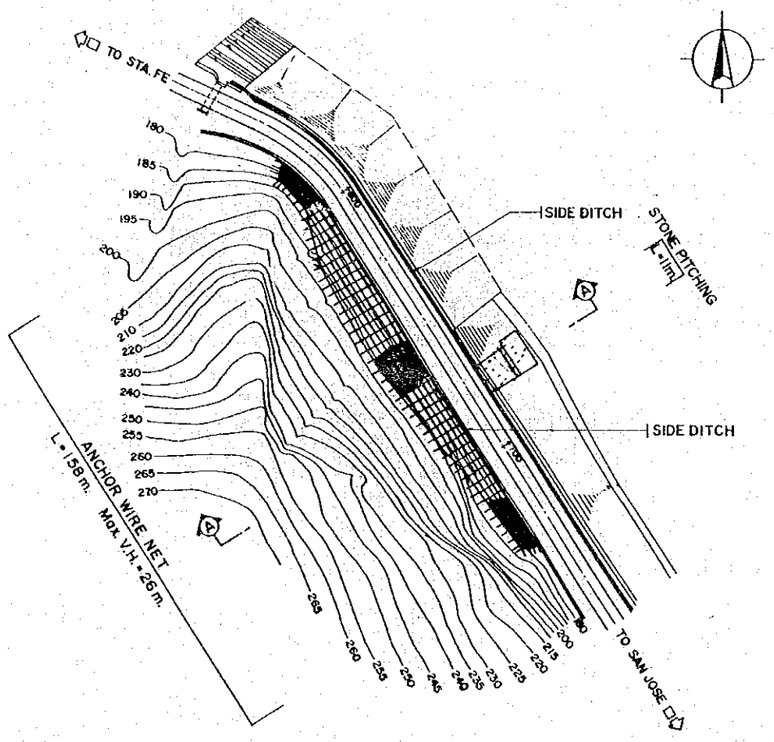
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT

SCALE	LOCATION OF DISASTER SPOTS (DALTON PASS SECTION) (3)	DRAWING NO.
1:20,000		22/52

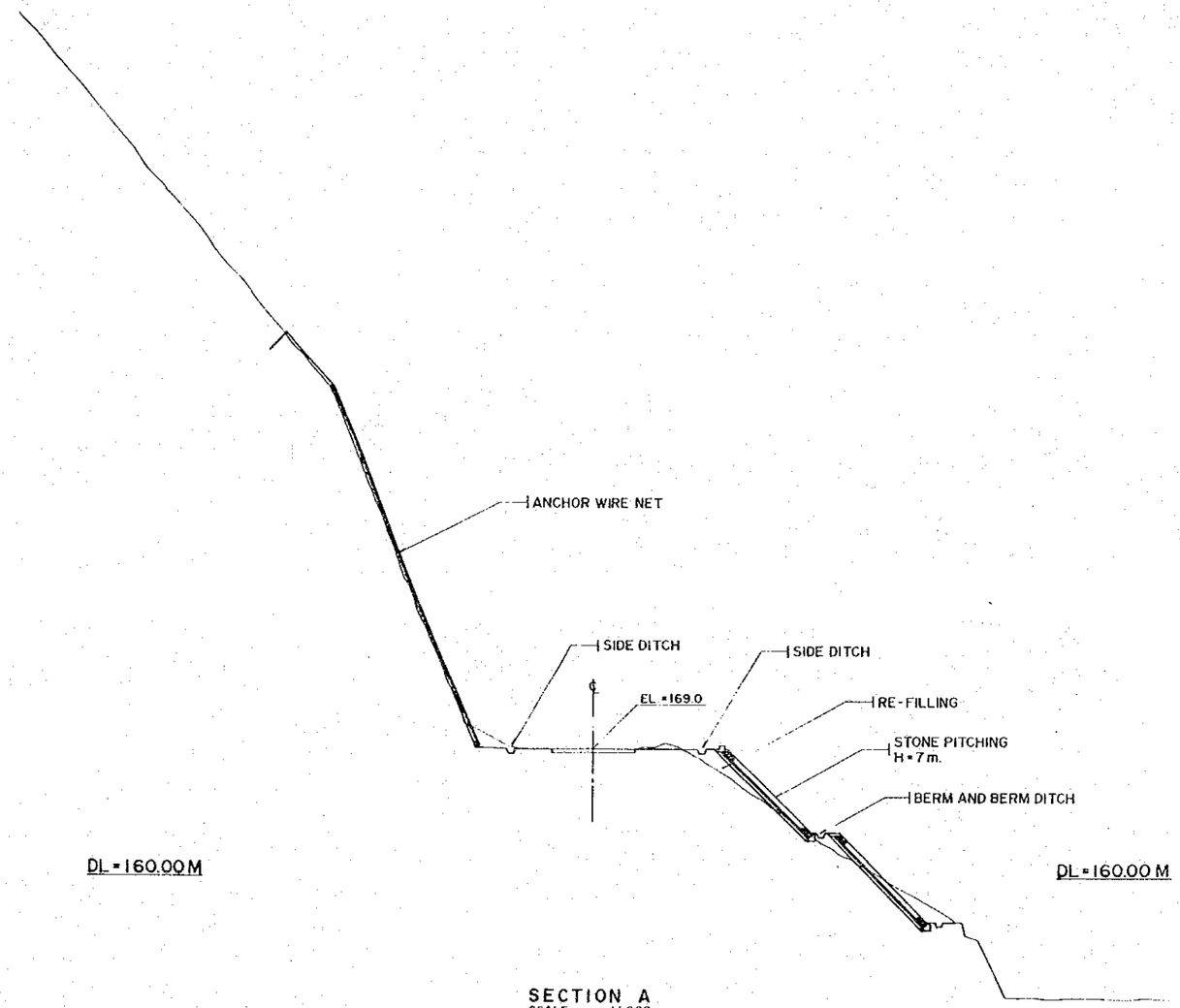


THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. III-11 & 12	DRAWING NO. 23/50

HALF REDUCED COPY



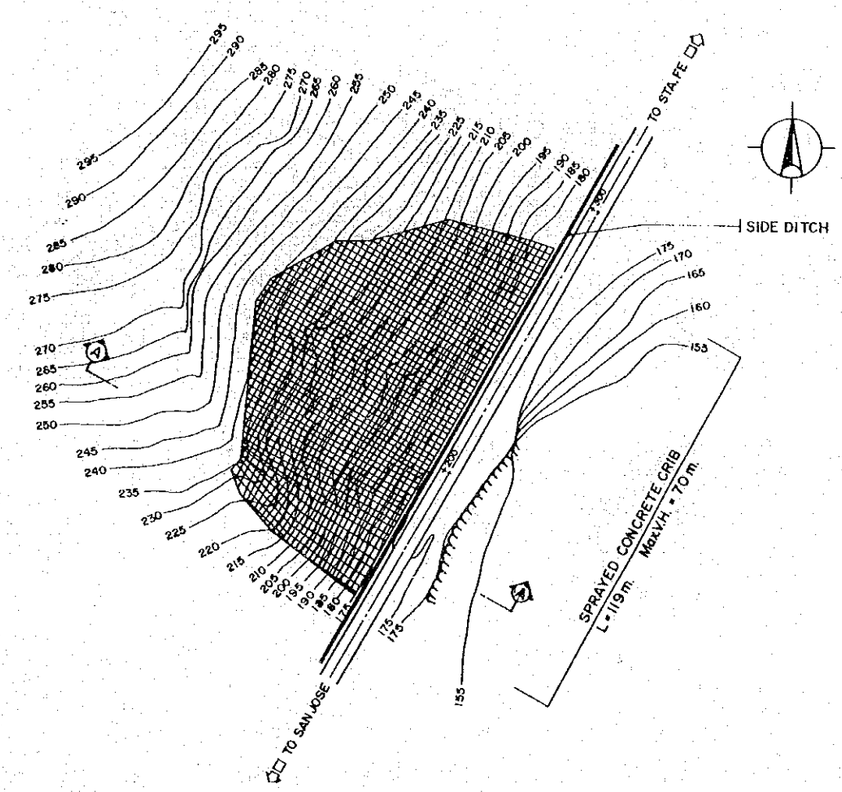
PLAN
SCALE 1:1000



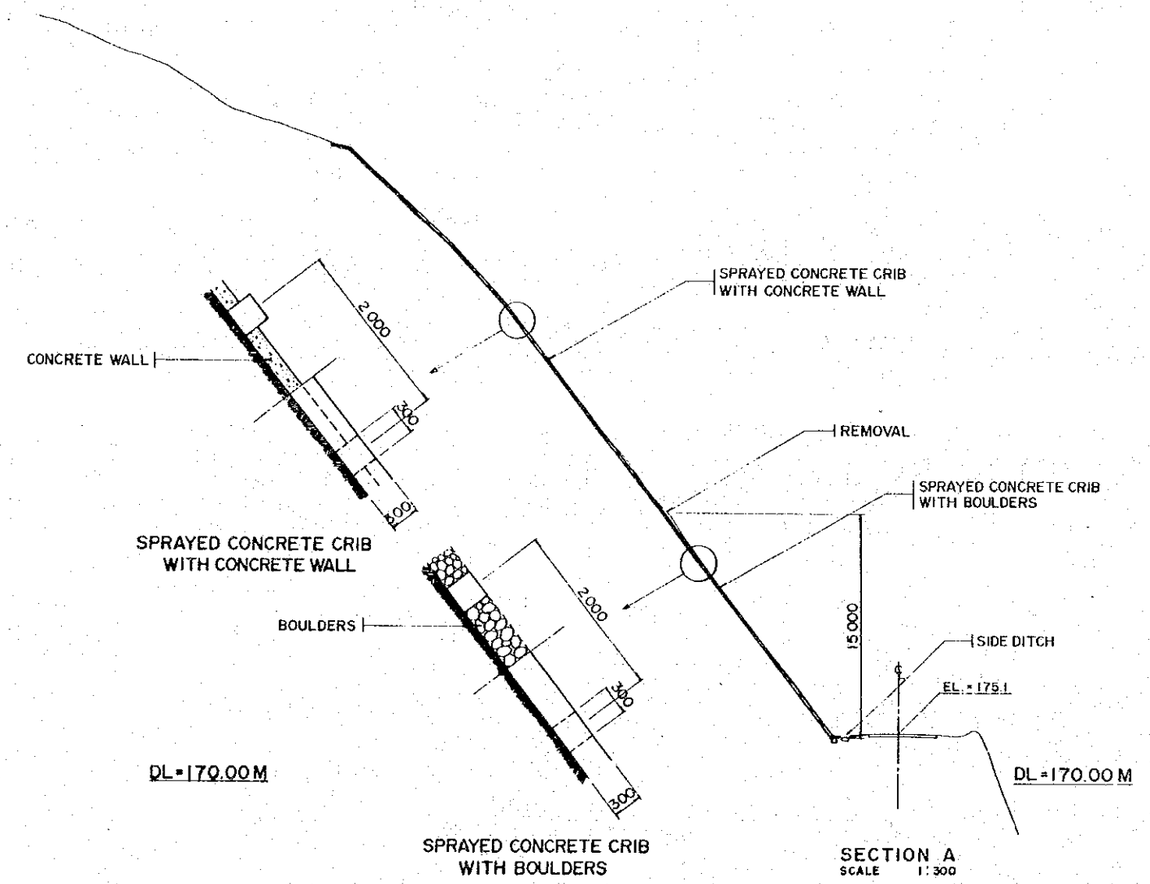
SECTION A
SCALE 1:200

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:300	COUNTERMEASURES FOR SPOT NO. II-14	DRAWING NO 24/52

HALF REDUCED COPY



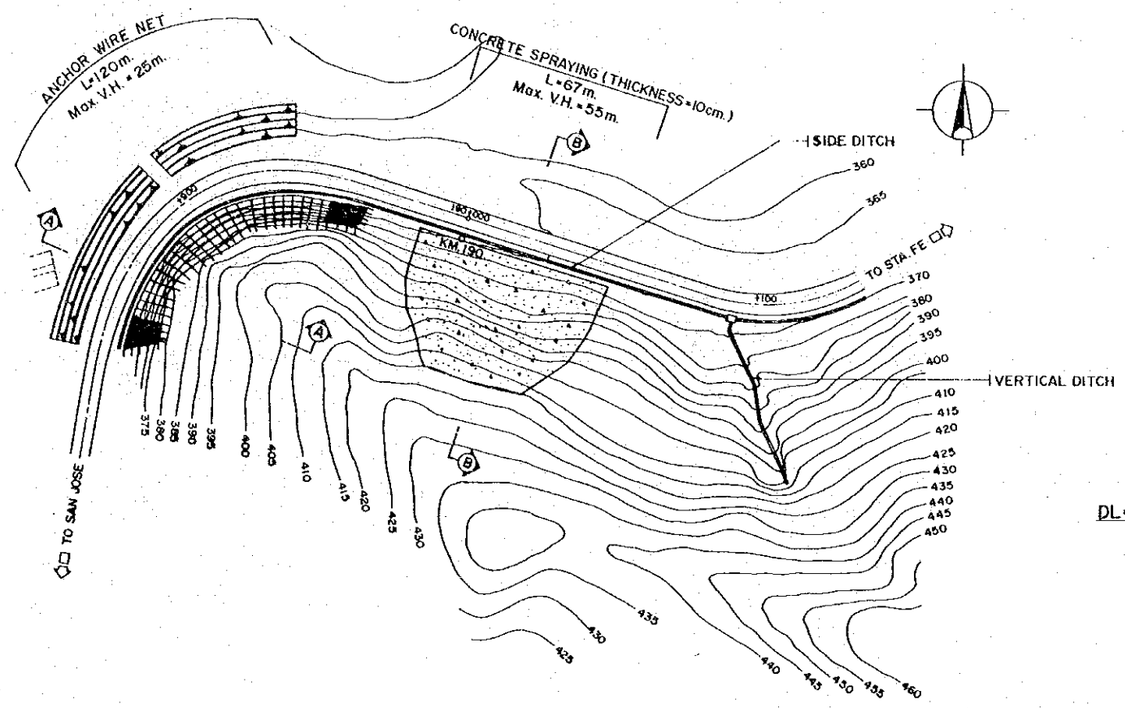
PLAN
SCALE 1:1000



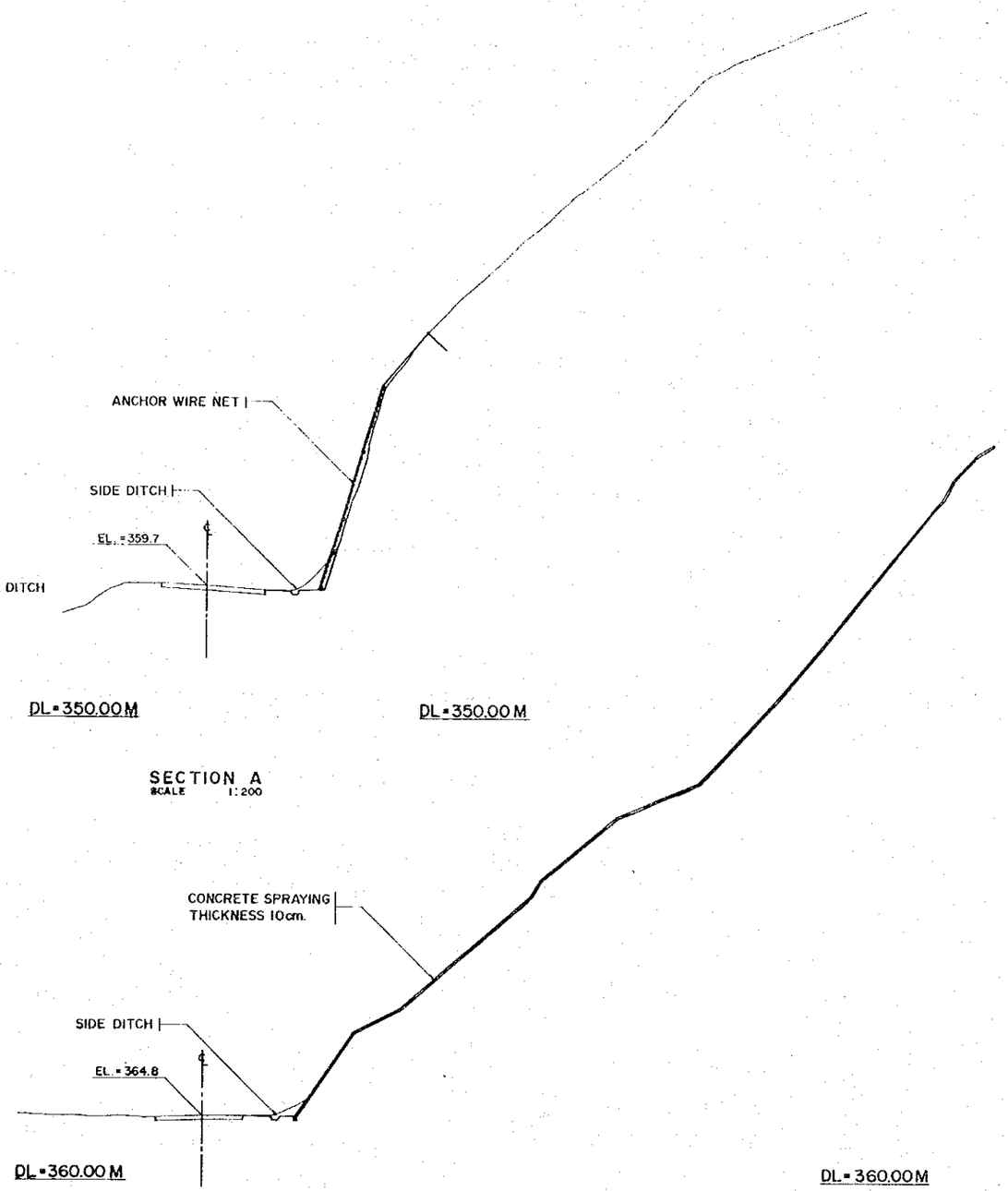
SECTION A
SCALE 1:300

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. III-37 & 38	DRAWING NO. 25/52

HALF REDUCED COPY



PLAN
SCALE 1:1000

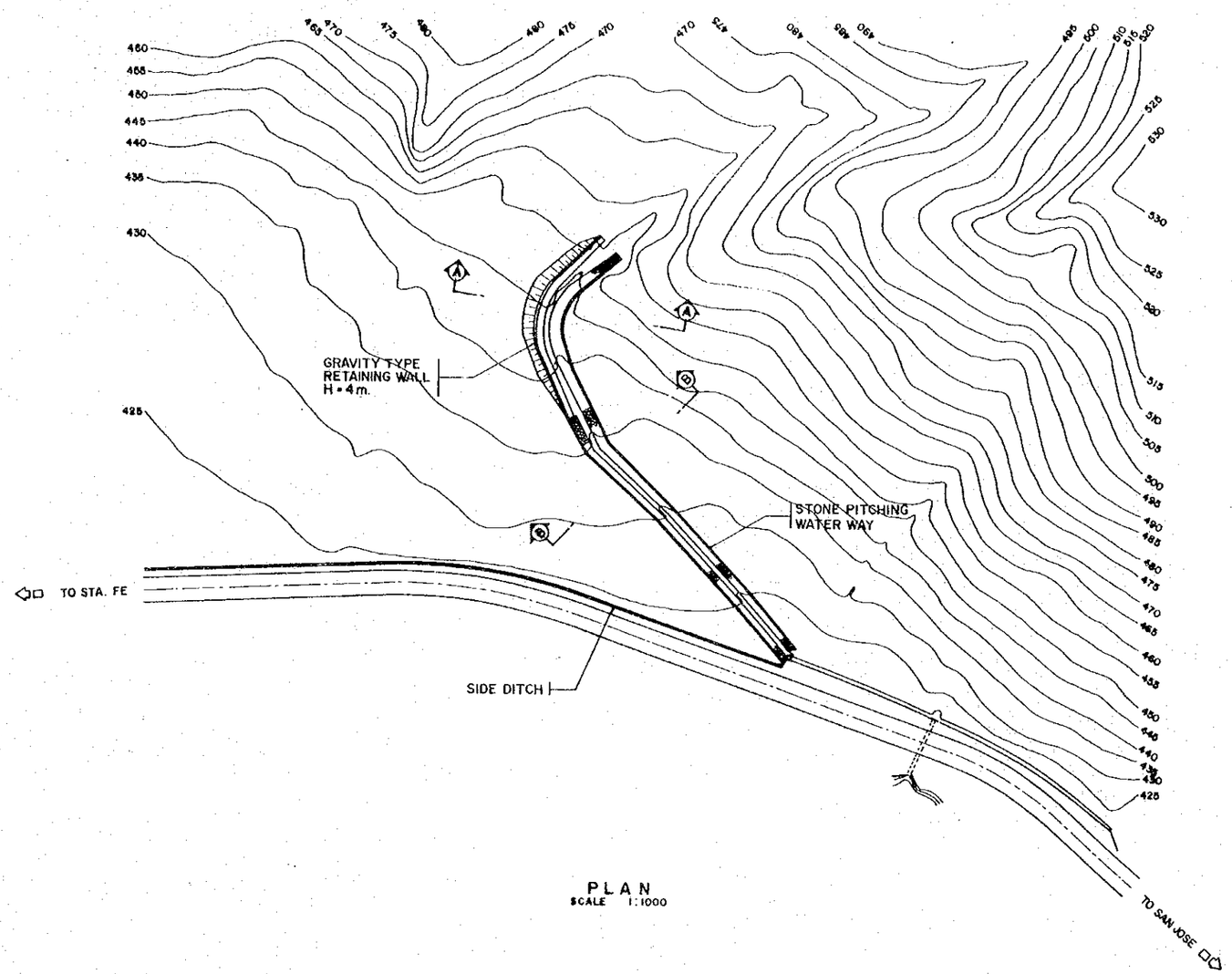


SECTION A
SCALE 1:200

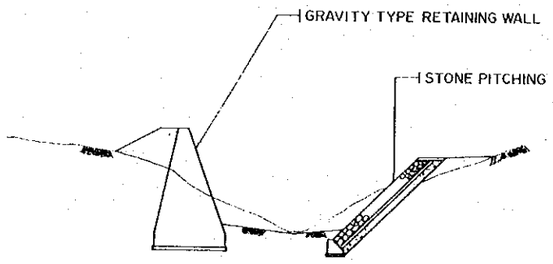
SECTION B
SCALE 1:200

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000	COUNTERMEASURES FOR SPOT NO. III-52	DRAWING NO. 26/52

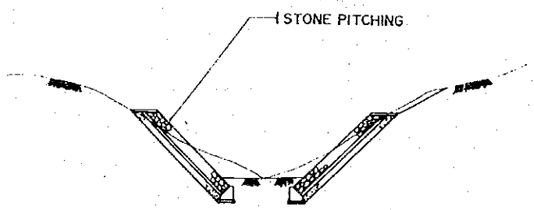
HALF REDUCED COPY



PLAN
SCALE 1:1000



SECTION A
NOT TO SCALE

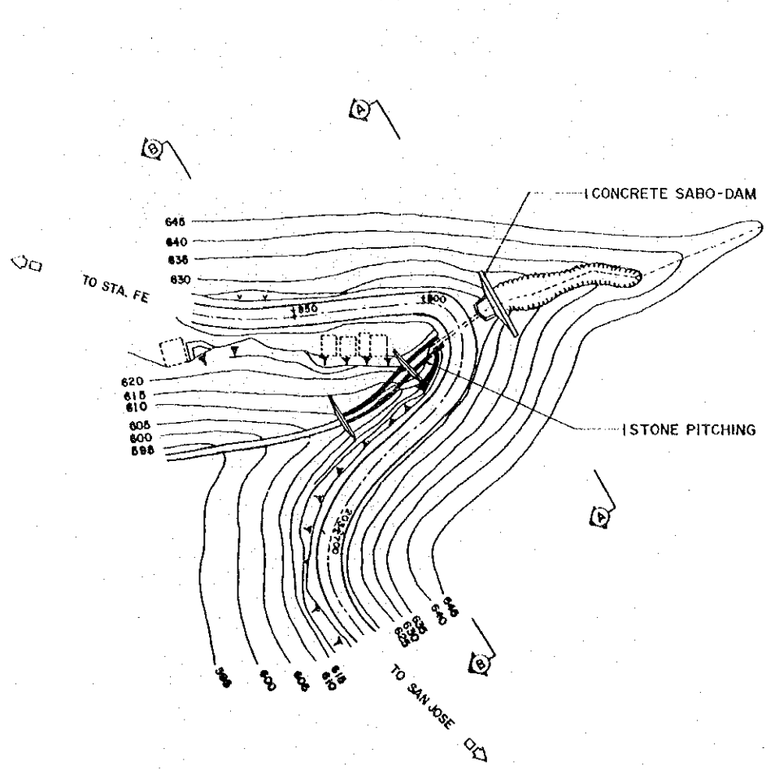


SECTION B
NOT TO SCALE

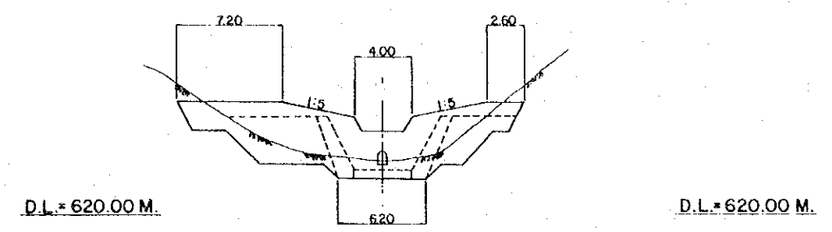
STONE PITCHING WATER WAY

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. III-66 (a)	DRAWING NO. 27/52

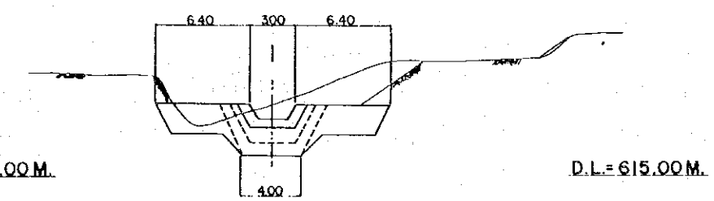
HALF REDUCED COPY



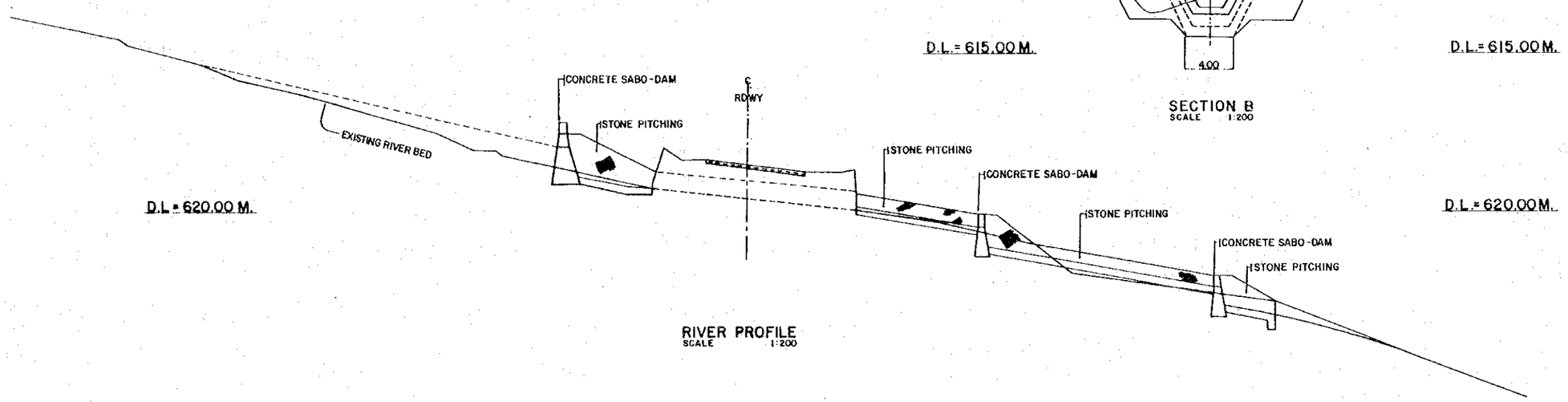
PLAN
SCALE 1:1000



SECTION A
SCALE 1:200



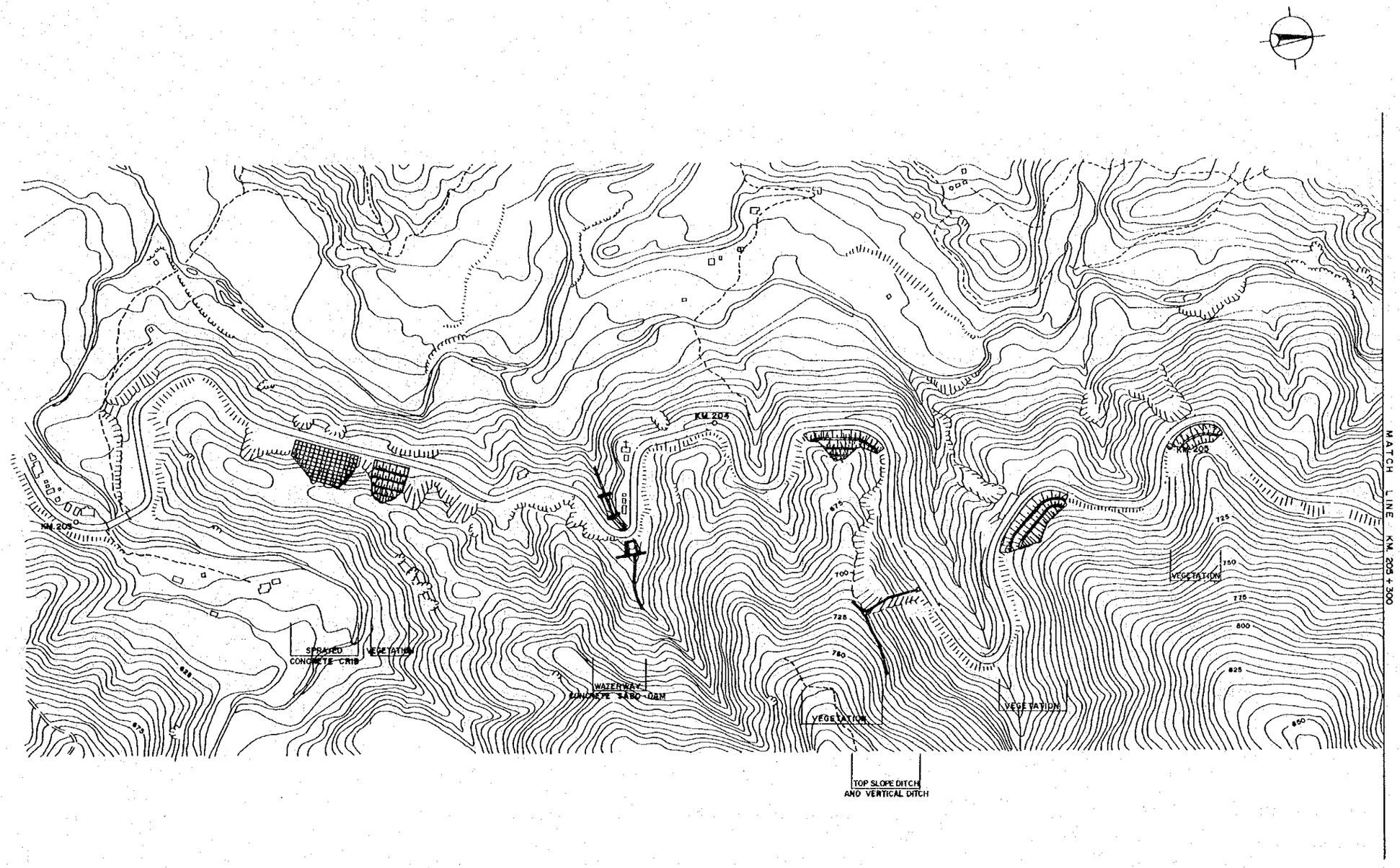
SECTION B
SCALE 1:200



RIVER PROFILE
SCALE 1:200

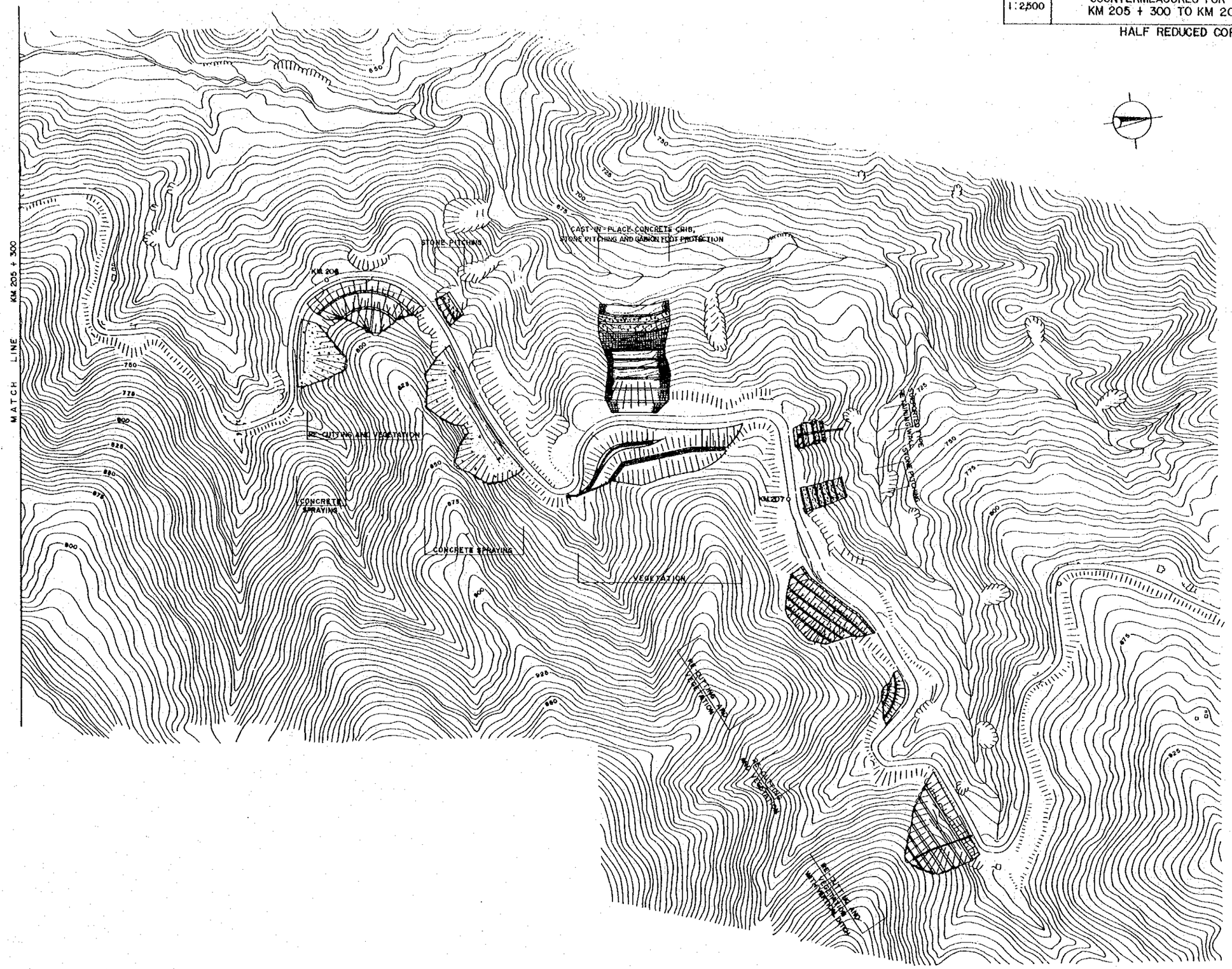
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:2,500	COUNTERMEASURES FOR SECTION KM 203 + 000 TO KM 205 + 300	DRAWING NO. 28/52

HALF REDUCED COPY



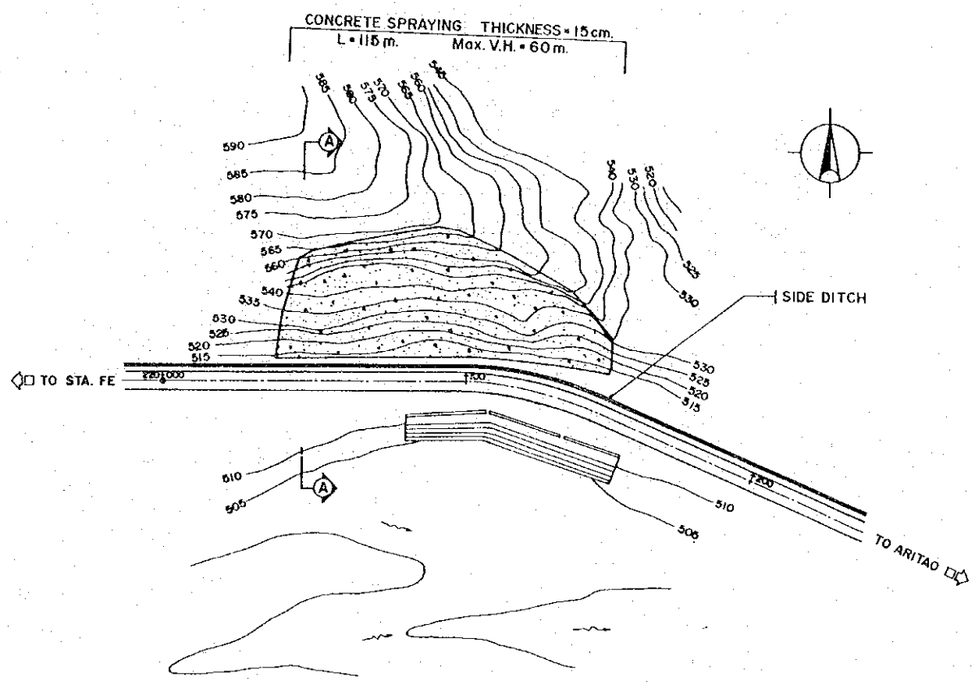
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:2,500	COUNTERMEASURES FOR SECTION KM 205 + 300 TO KM 208 + 000	DRAWING NO 29/52

HALF REDUCED COPY

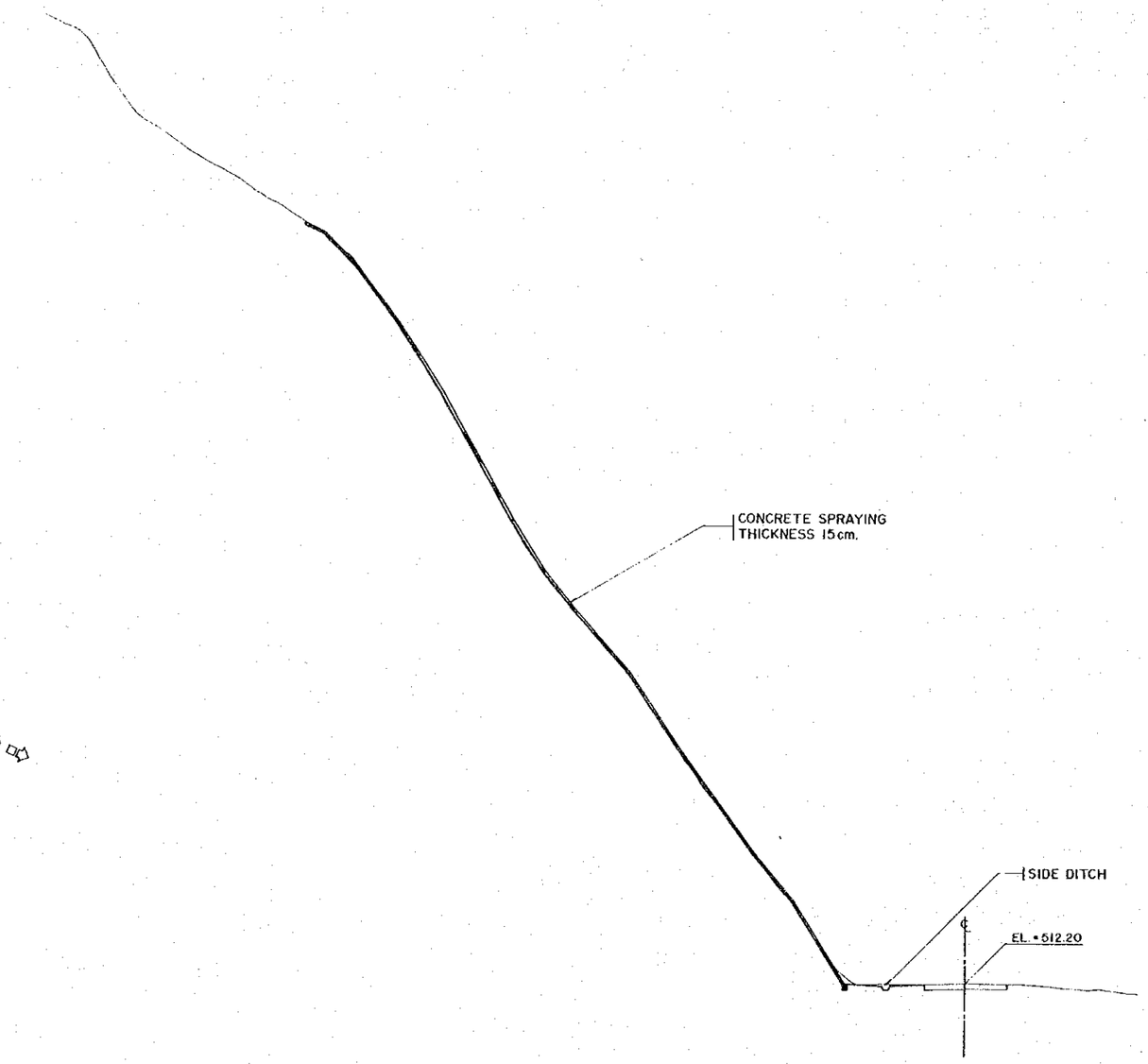


THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. II-9	DRAWING NO. 30/52

HALF REDUCED COPY



PLAN
SCALE 1:1000

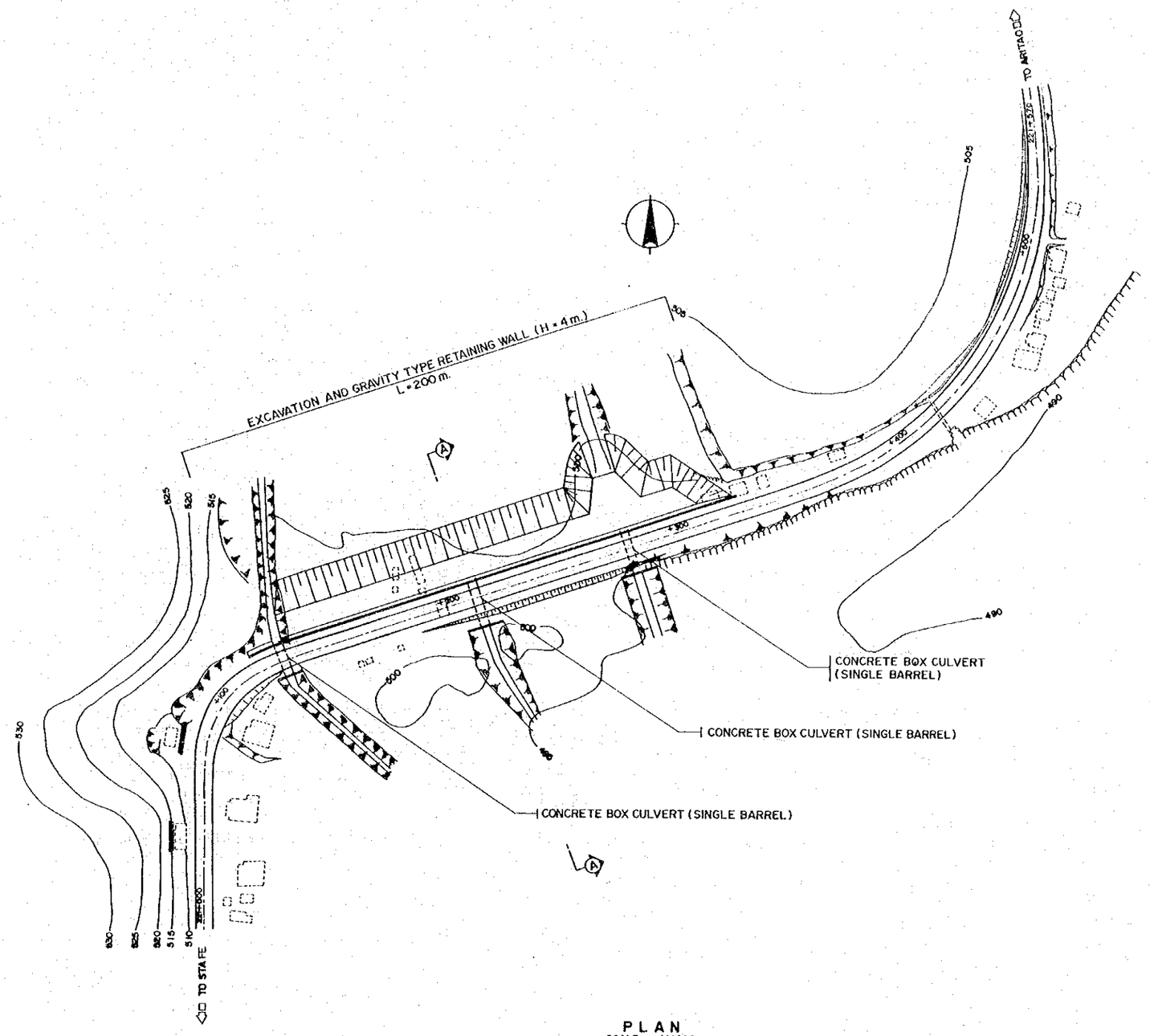


SECTION A
SCALE 1:200

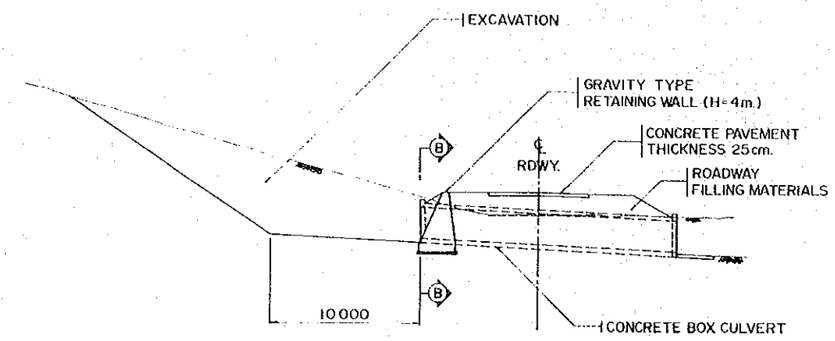
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT

SCALE		DRAWING NO.
1:1000 1:200 1:100	COUNTERMEASURES FOR SPOT NO. II-II (a)	31/62

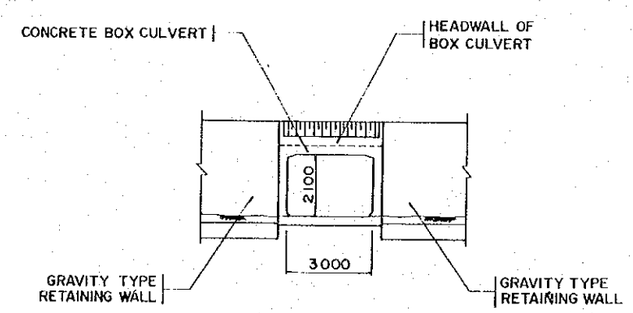
HALF REDUCED COPY



PLAN
SCALE 1:1000



SECTION A
SCALE 1:200

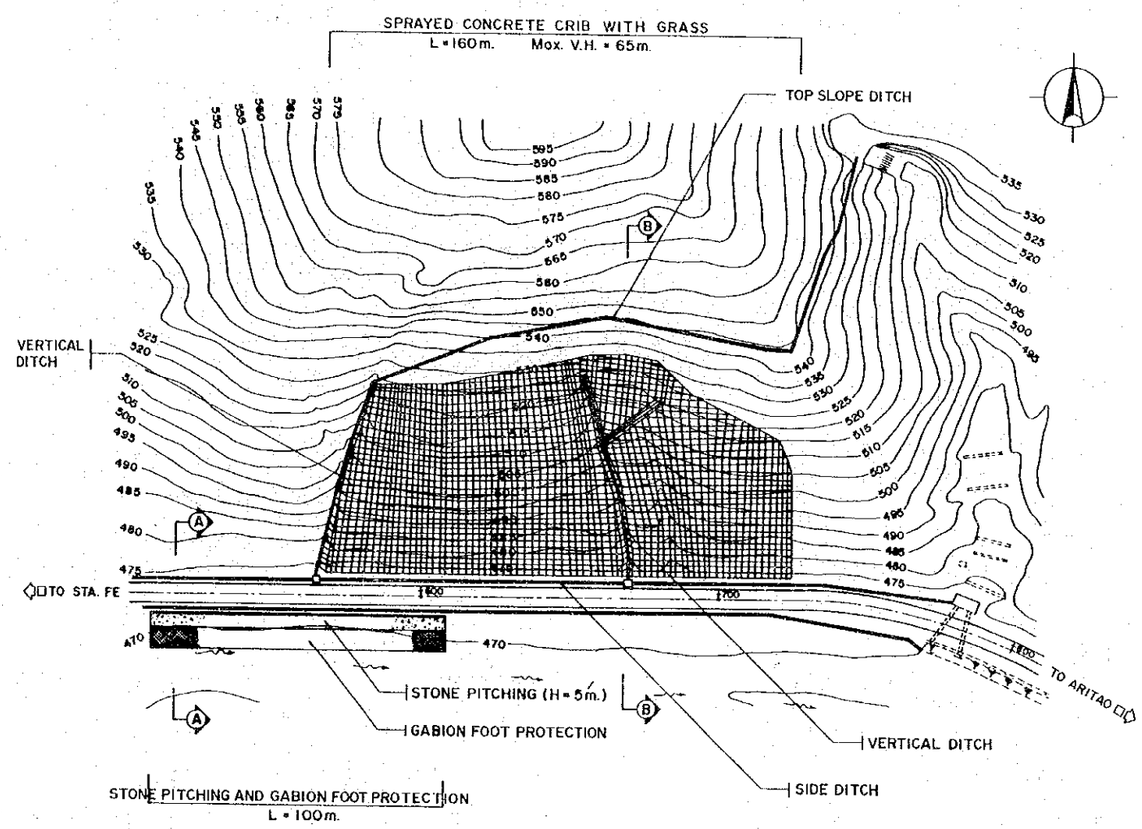


SECTION B
SCALE 1:100

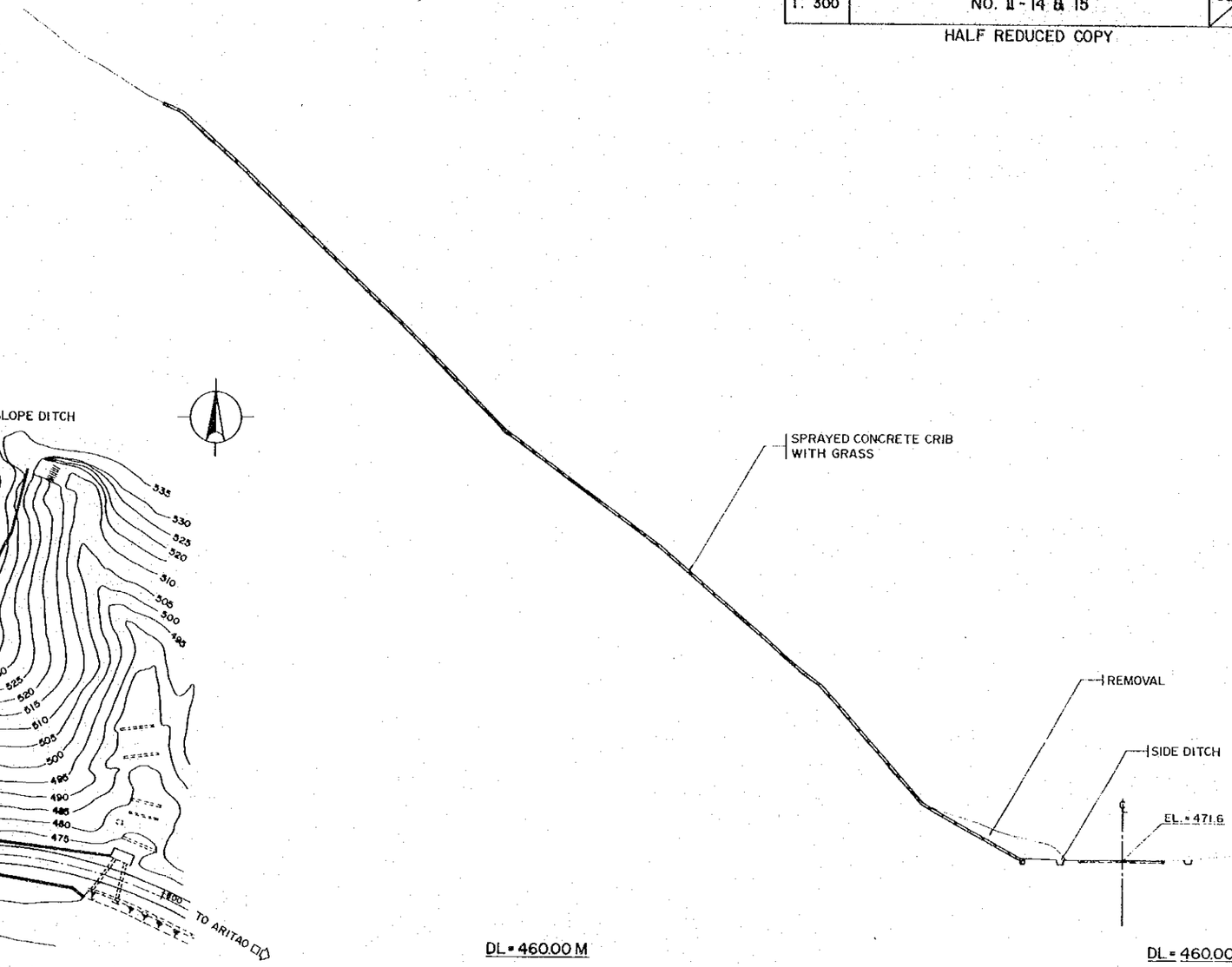
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT

SCALE		DRAWING NO.
1:1000 1:300	COUNTERMEASURES FOR SPOT NO. II - 14 & 15	32/52

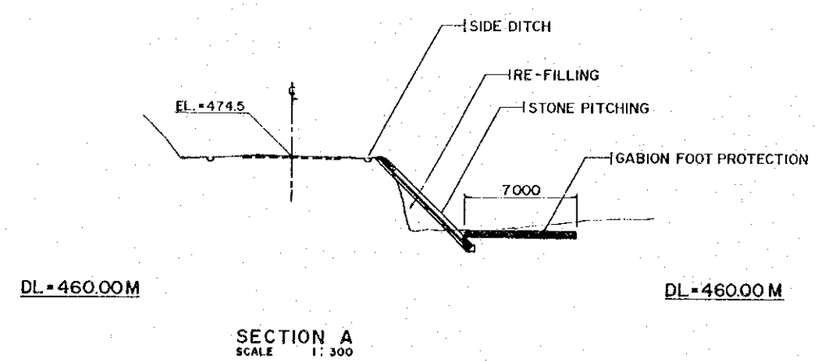
HALF REDUCED COPY



PLAN
SCALE 1:1000



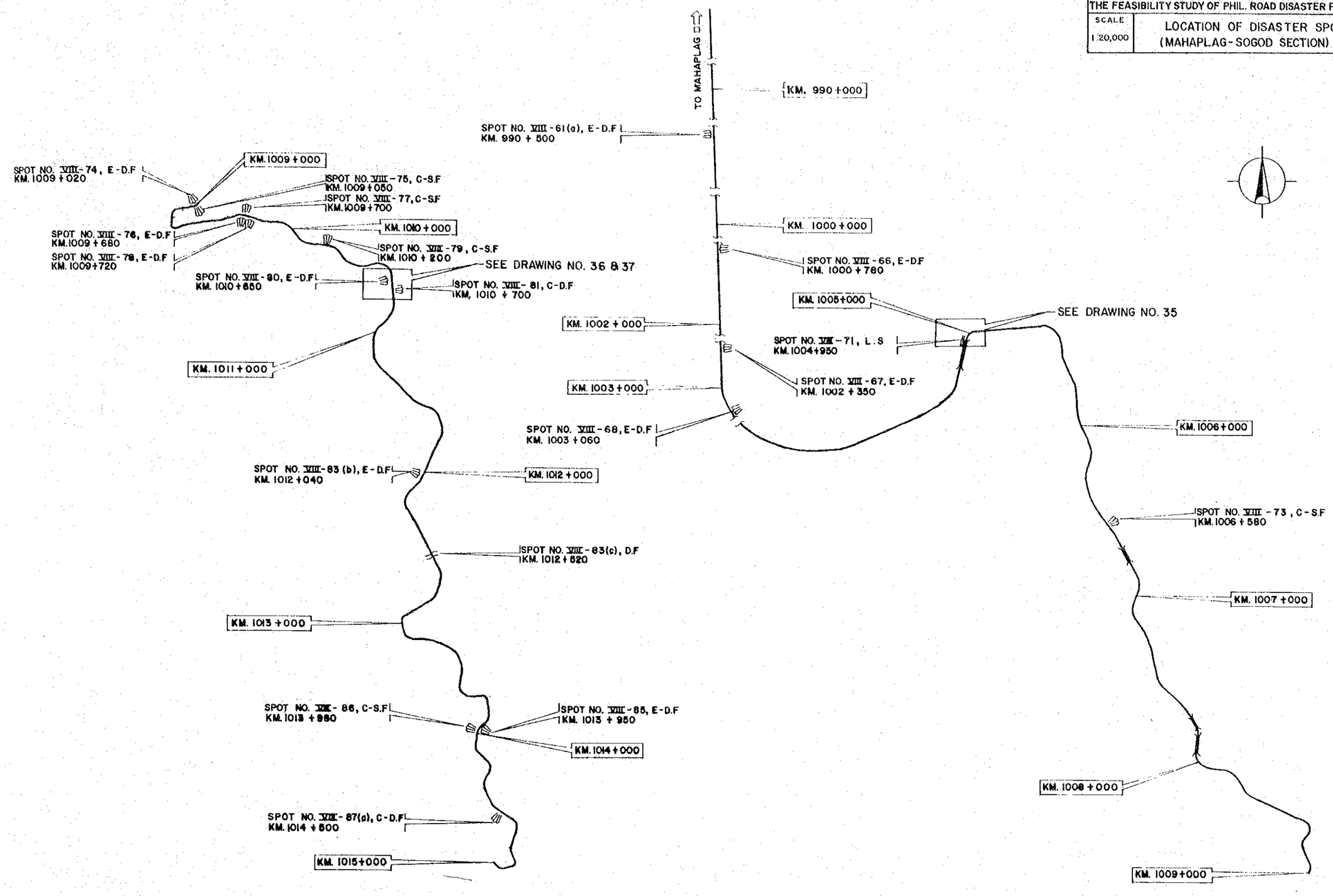
SECTION B
SCALE 1:300



SECTION A
SCALE 1:300

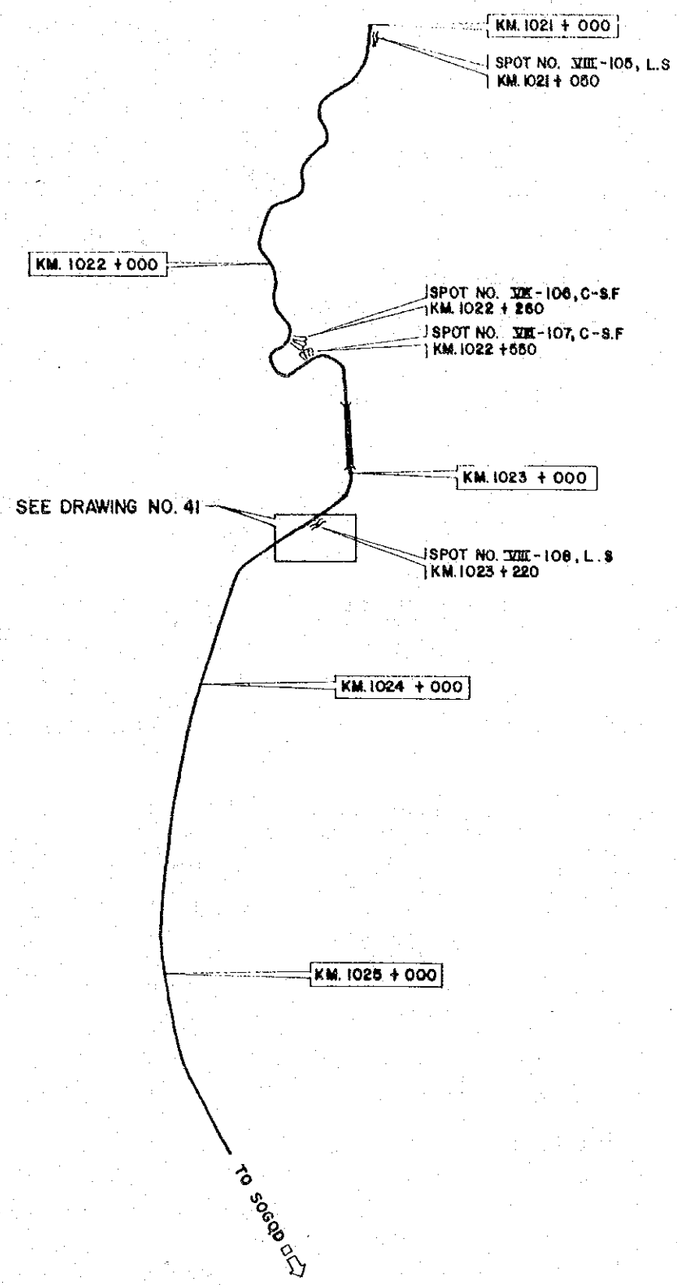
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT

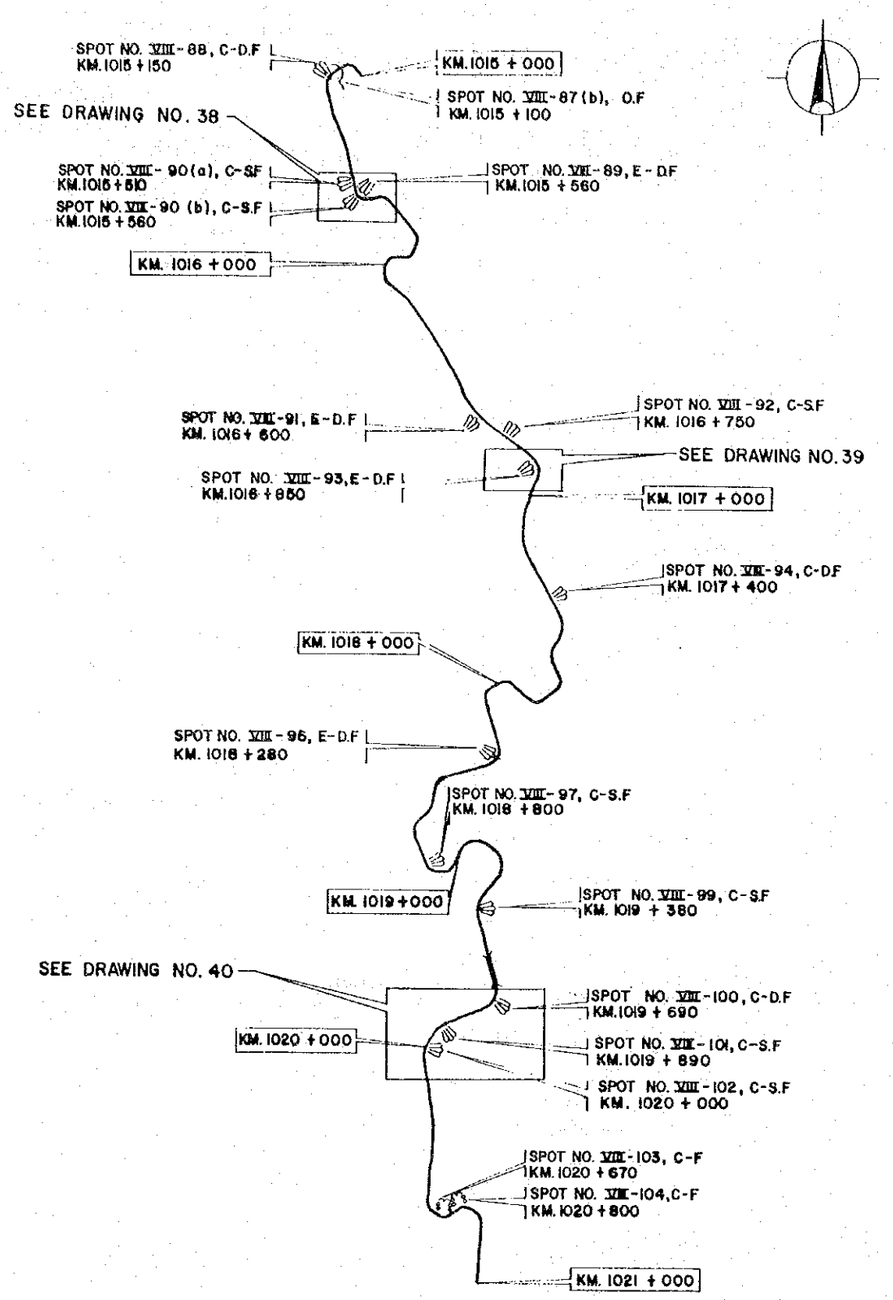
SCALE	LOCATION OF DISASTER SPOTS (MAHAPLAG-SOGOD SECTION) (1)	DRAWING NO
1:20,000		33/52



MAHAPLAG - SOGOD SECTION

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:20,000	LOCATION OF DISASTER SPOTS (MAHAPLAG-SOGOD SECTION) (2)	DRAWING NO. 34/52

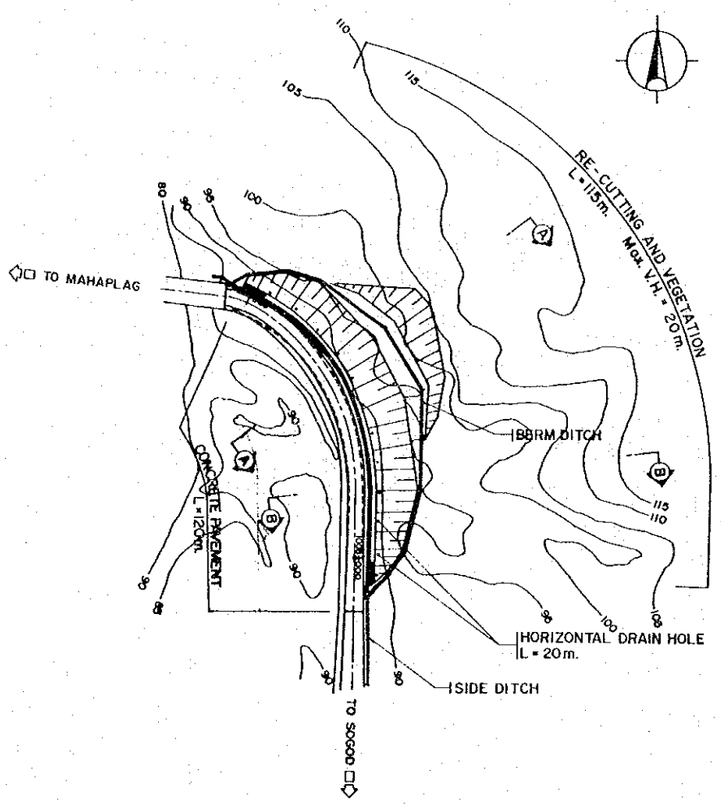




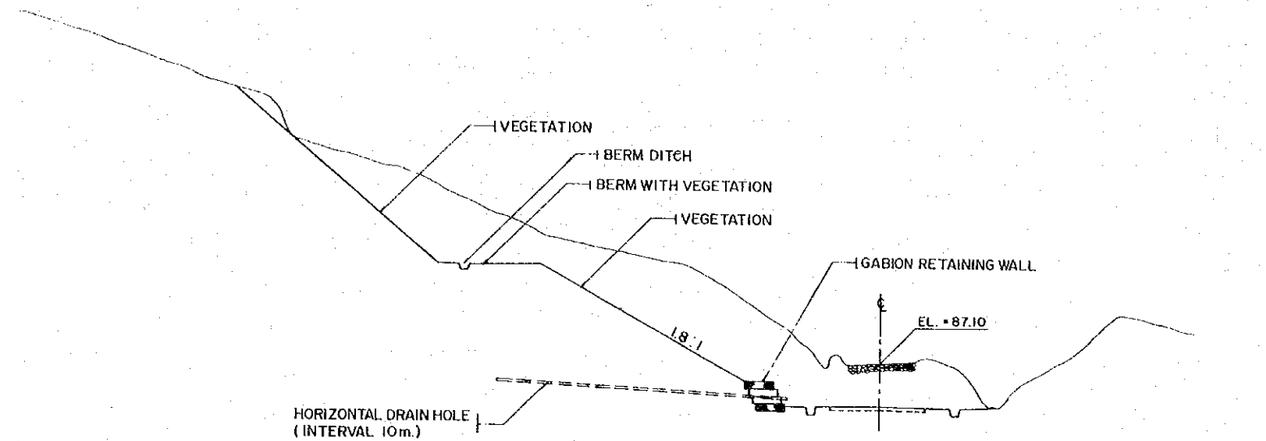
MAHAPLAG - SOGOD SECTION

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. VIII – 71	DRAWING NO. 35/52

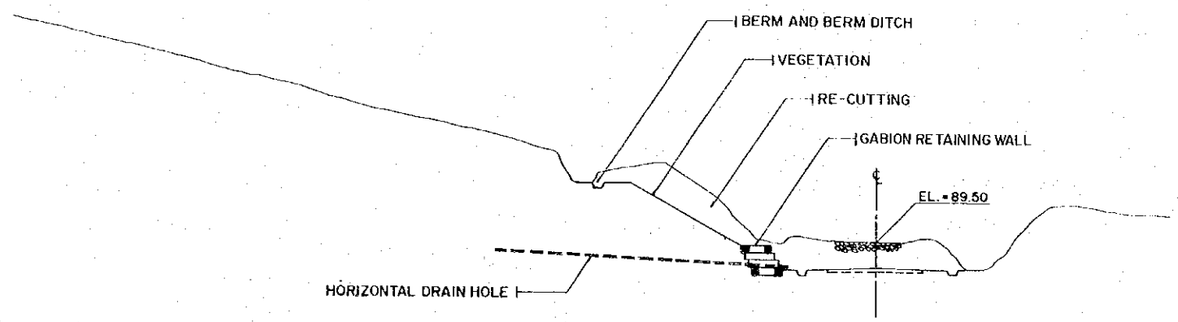
HALF REDUCED COPY



PLAN
SCALE 1:1000



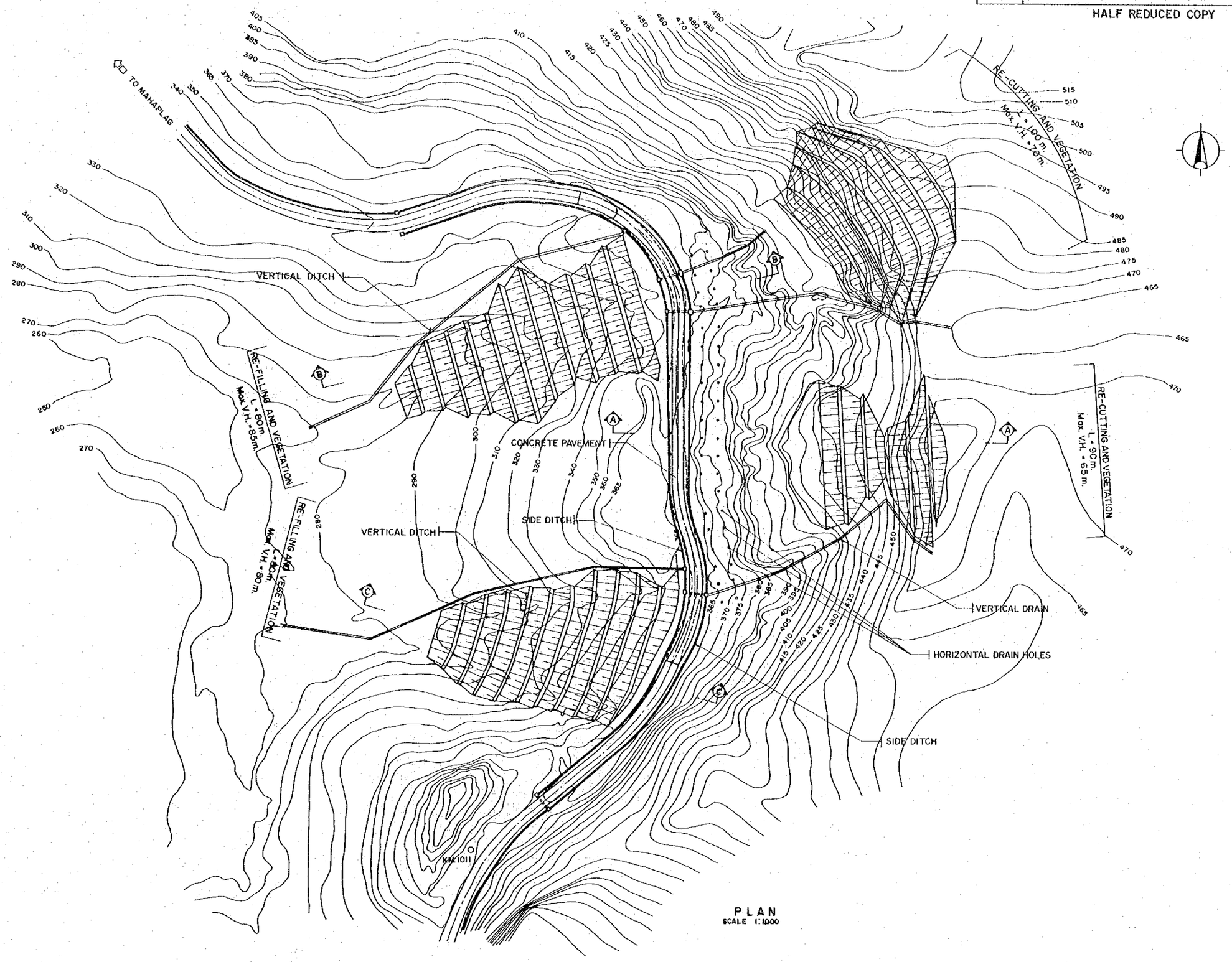
SECTION A
SCALE 1:200



SECTION B
SCALE 1:200

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000	COUNTERMEASURES FOR SPOT NO. VIII-80 & 81 (1)	DRAWING NO. 36/52

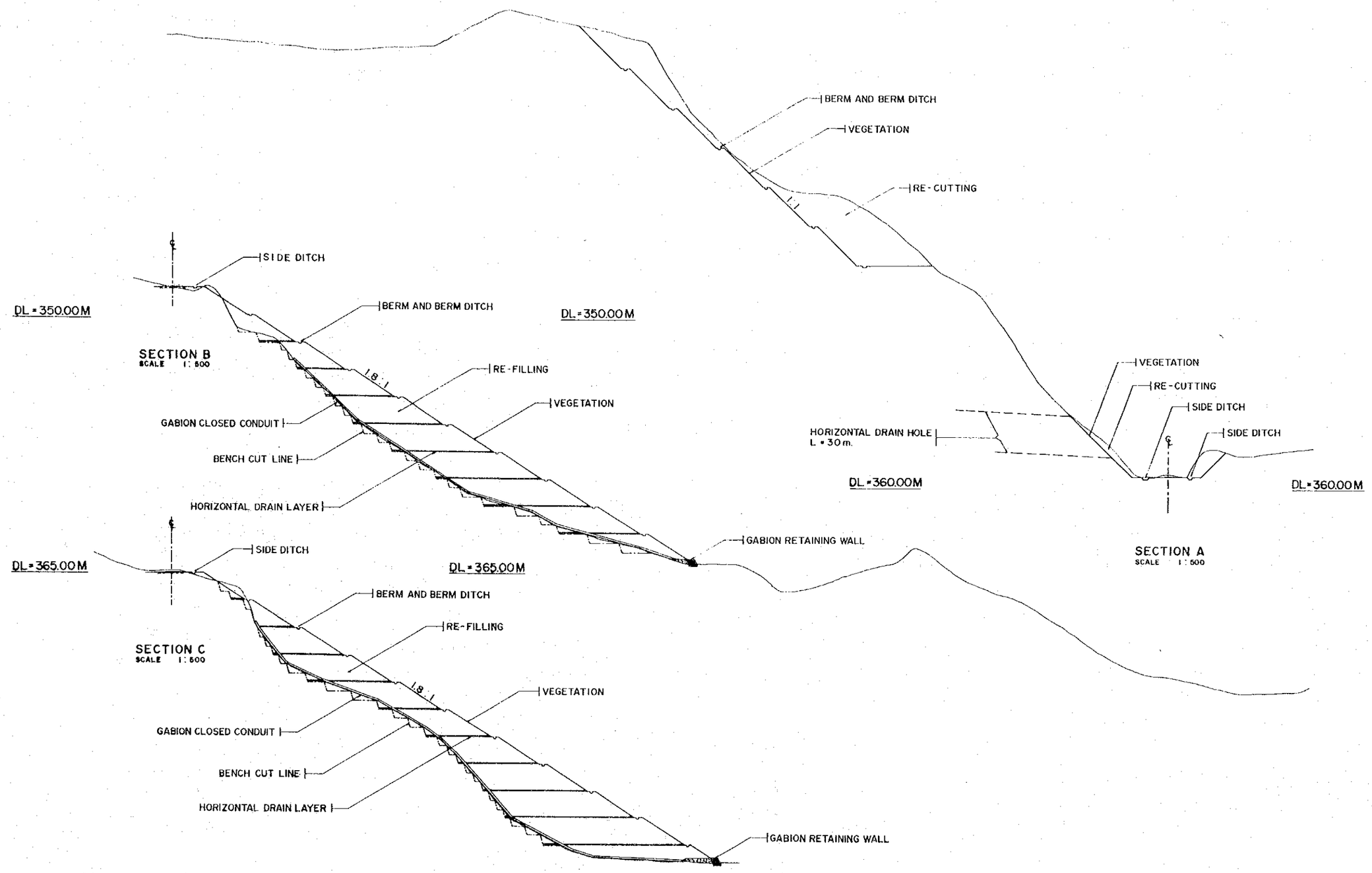
HALF REDUCED COPY



PLAN
SCALE 1:1000

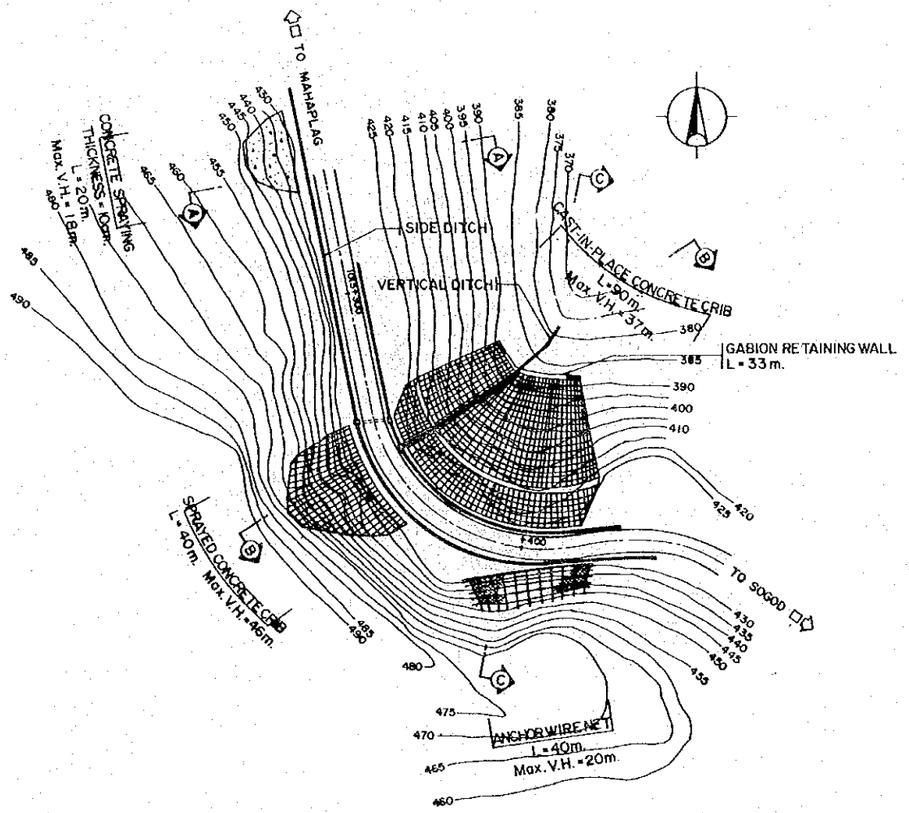
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1: 500	COUNTERMEASURES FOR SPOT NO. III-80 & 81 (2)	DRAWING NO. 37/52

HALF REDUCED COPY

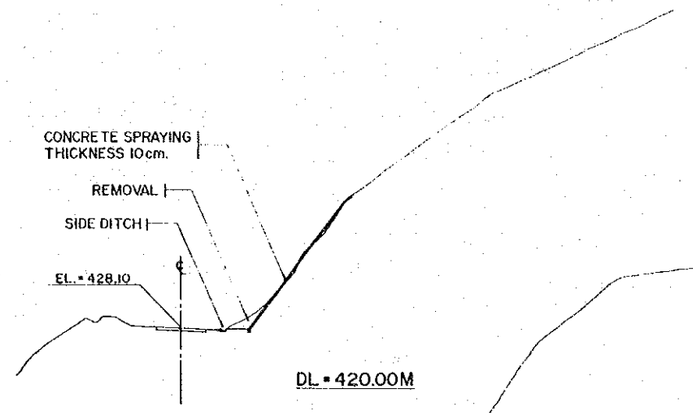


THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:400	COUNTERMEASURES FOR SPOT NO. VIII-89 & 90	DRAWING NO. 38/52

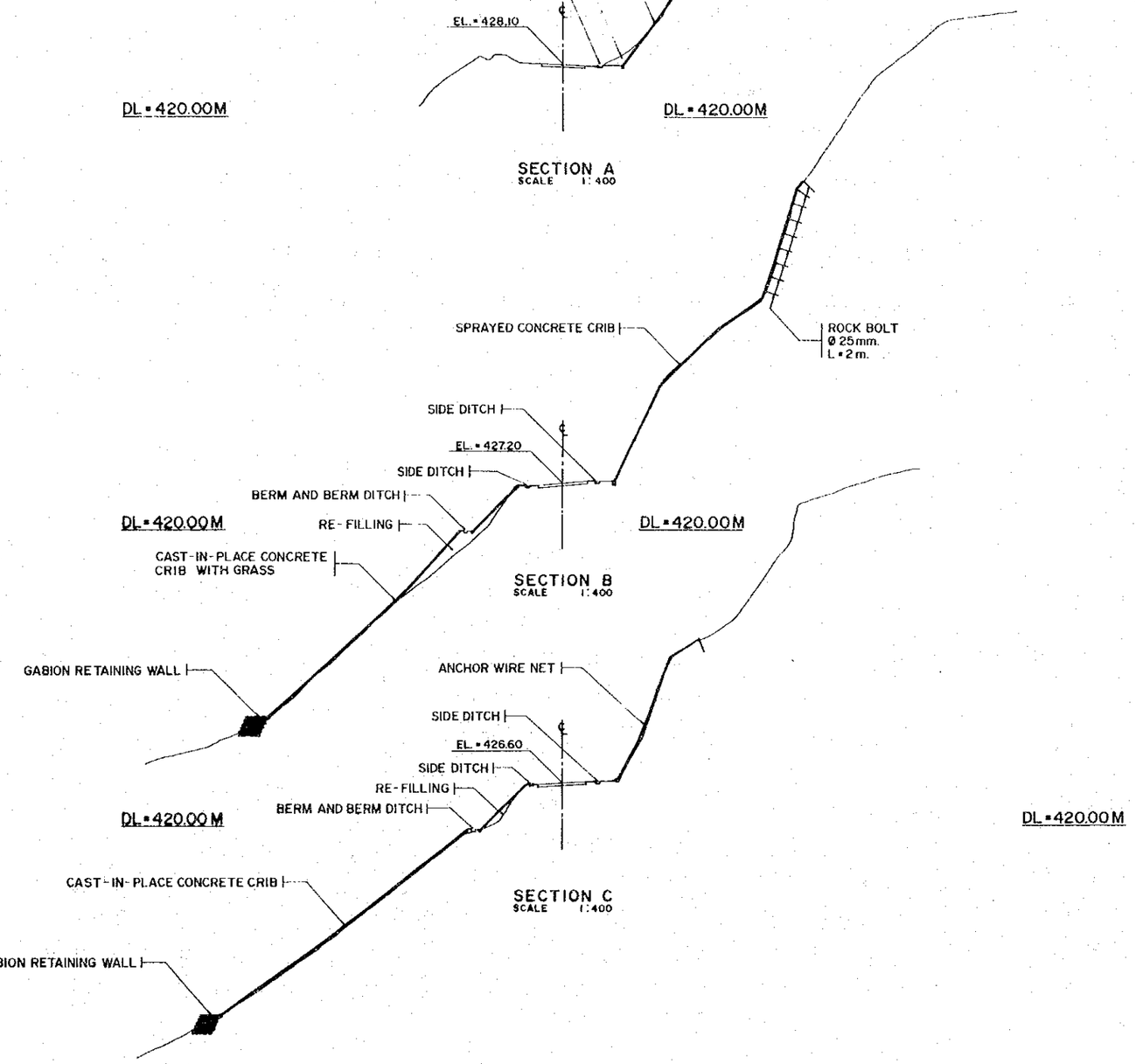
HALF REDUCED COPY



PLAN
SCALE 1:1000



SECTION A
SCALE 1:400

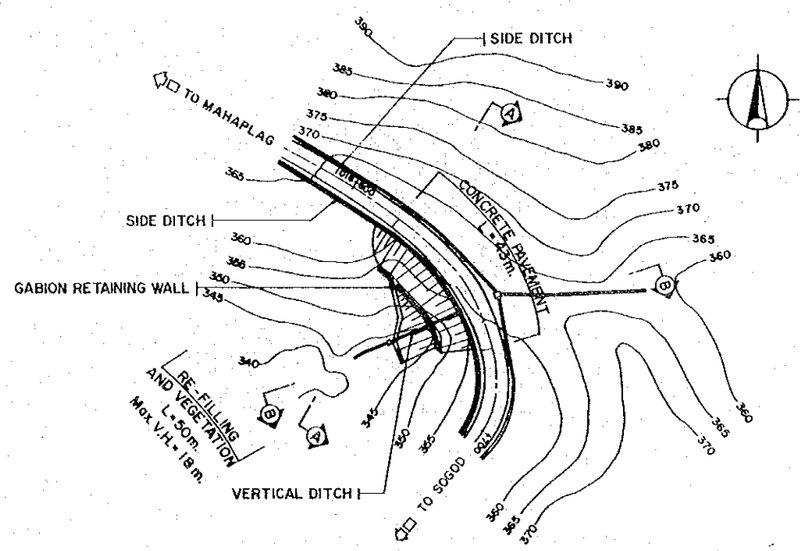


SECTION B
SCALE 1:400

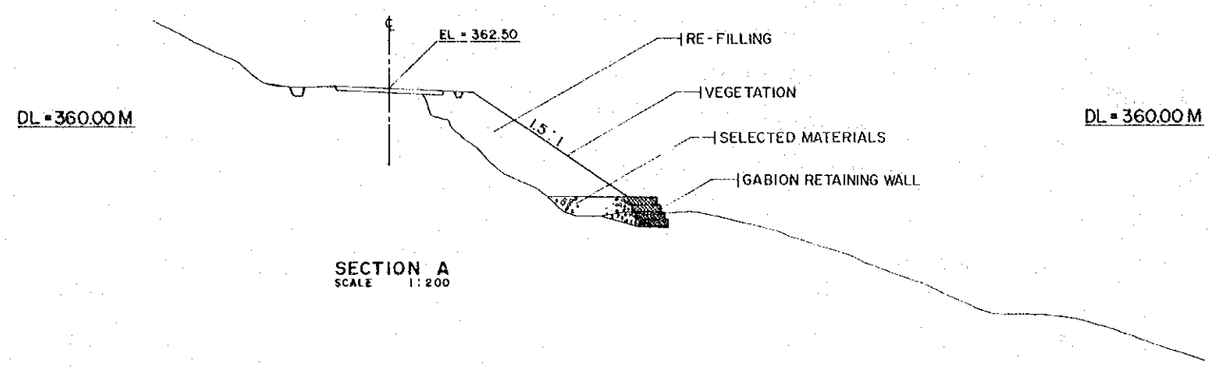
SECTION C
SCALE 1:400

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. VIII - 93	DRAWING NO. 39/52

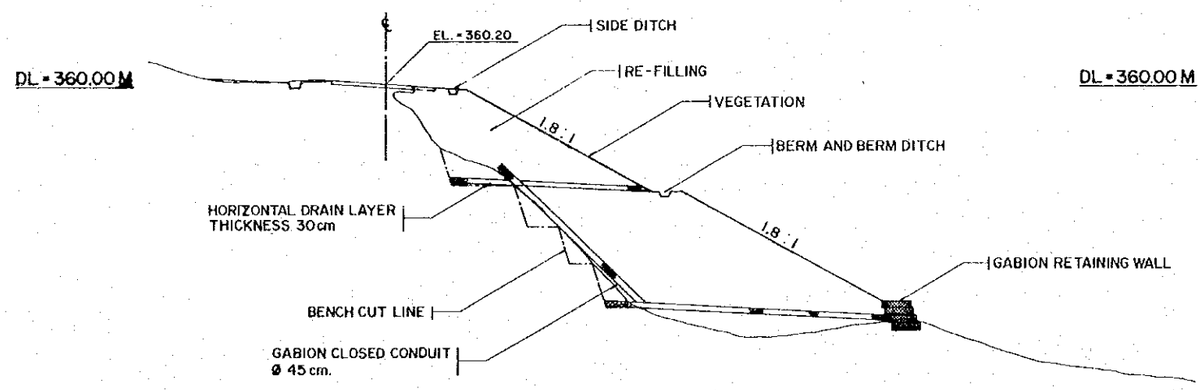
HALF REDUCED COPY



PLAN
SCALE 1:1000



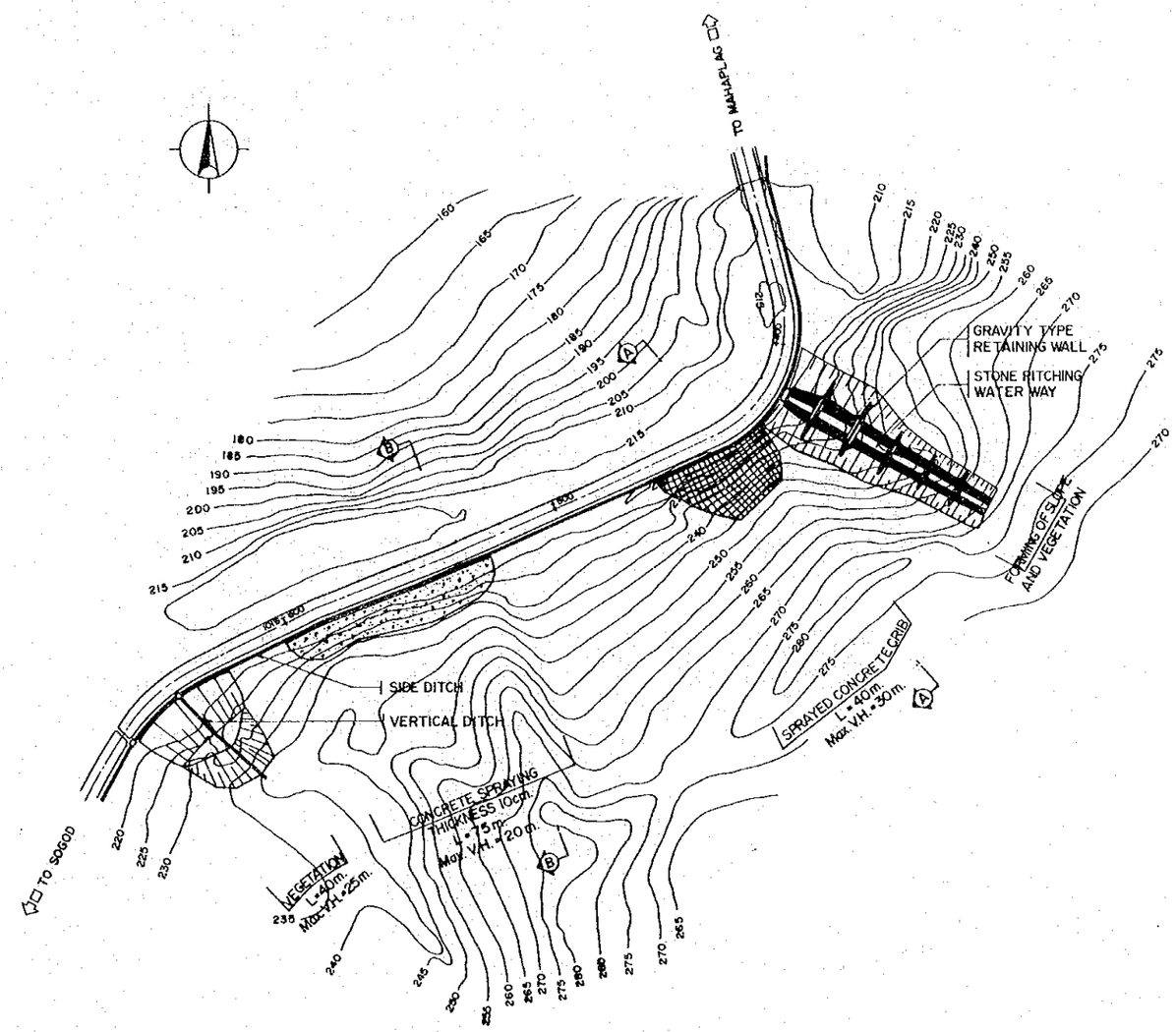
SECTION A
SCALE 1:200



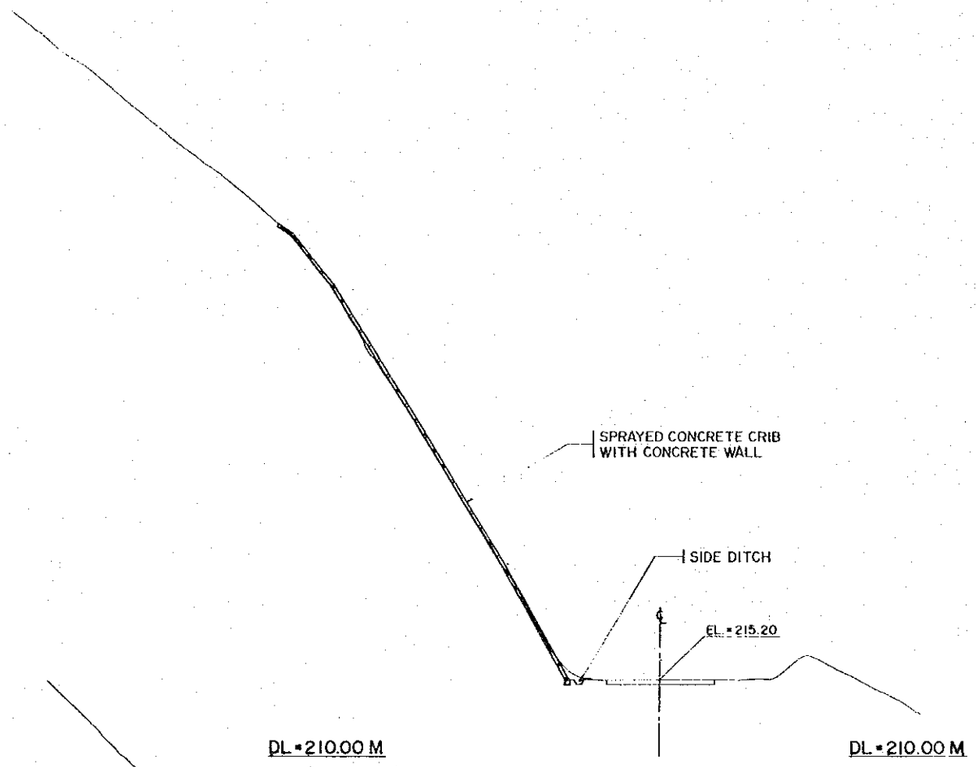
SECTION B
SCALE 1:200

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. VIII - 100, 101 & 102	DRAWING NO 40/52

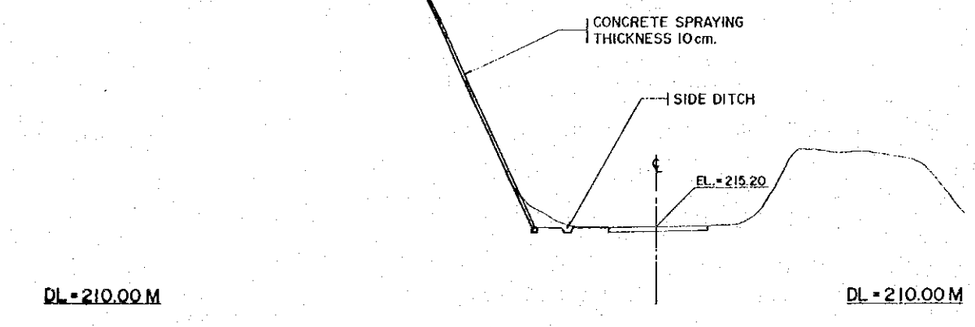
HALF REDUCED COPY



PLAN
SCALE 1:1000



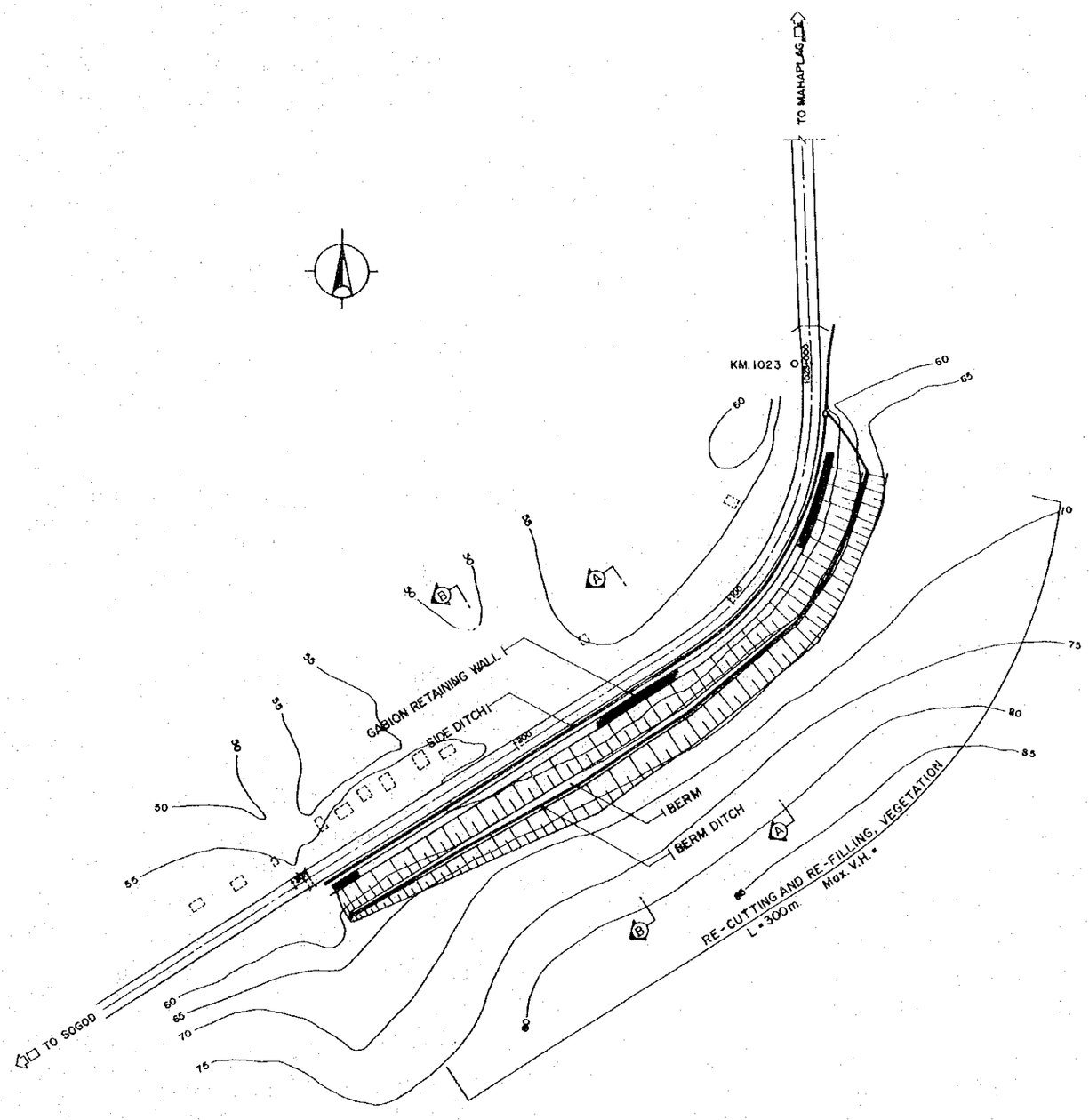
SECTION A
SCALE 1:200



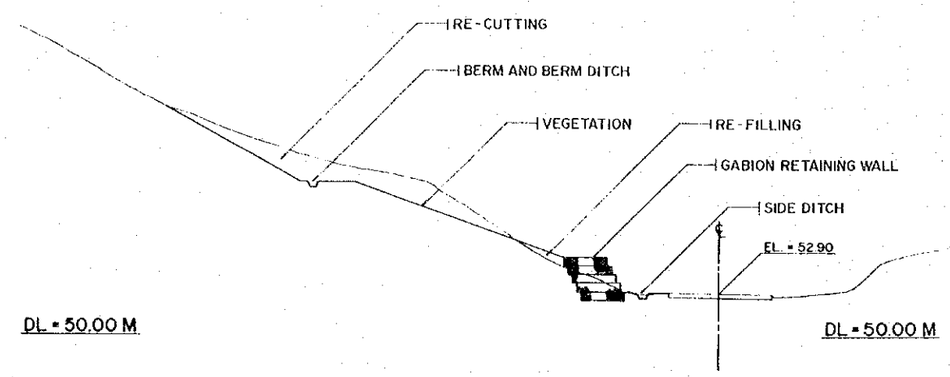
SECTION B
SCALE 1:200

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. VIII - 108	DRAWING NO 41/52

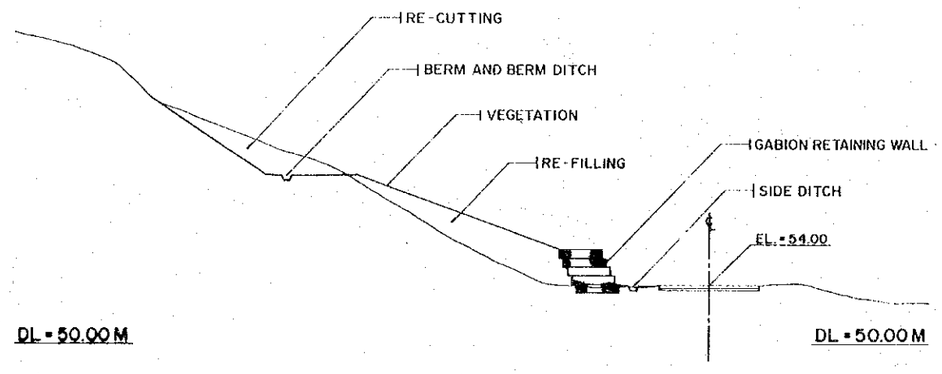
HALF REDUCED COPY



PLAN
SCALE 1:1000

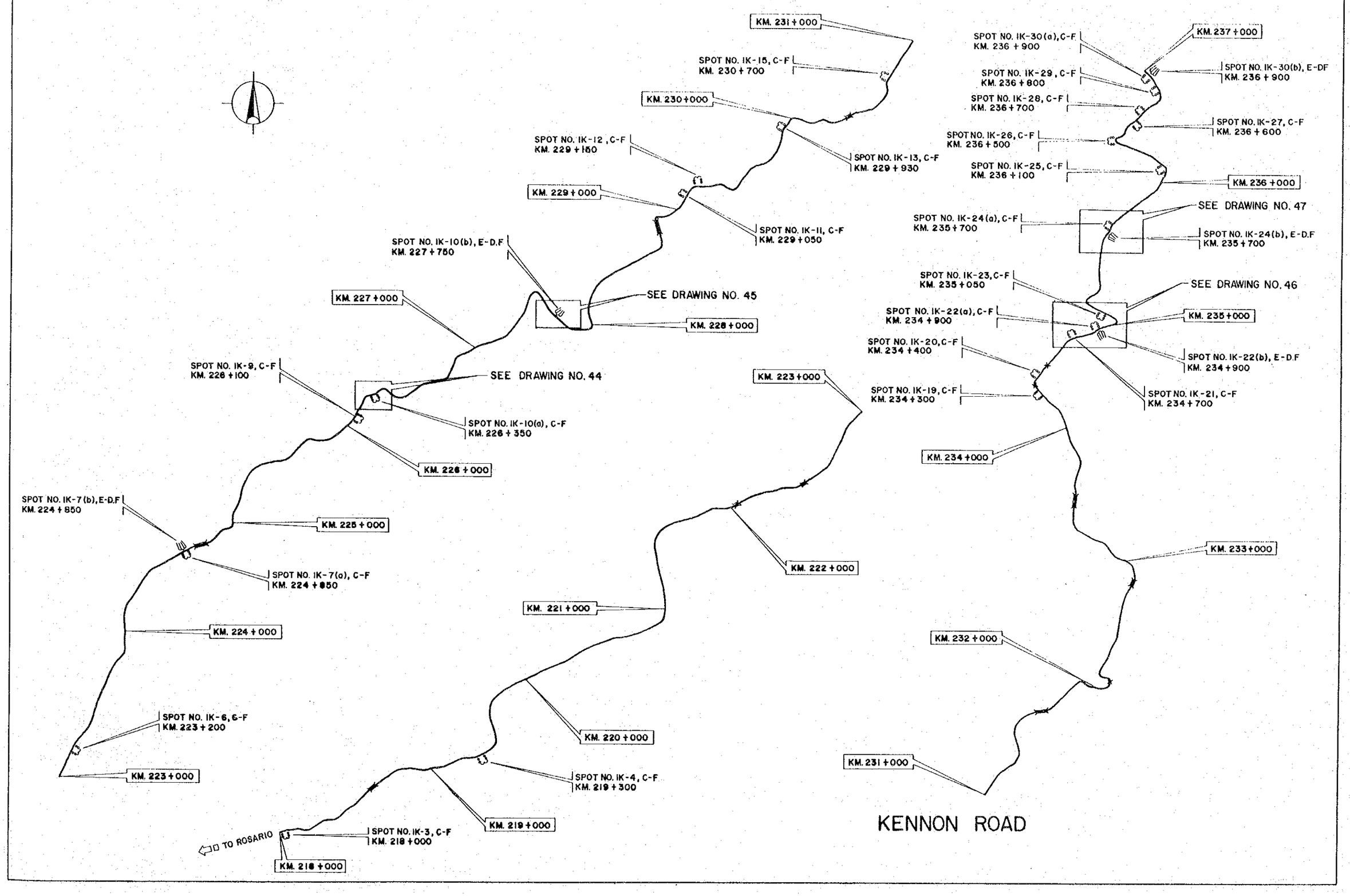


SECTION A
SCALE 1:200



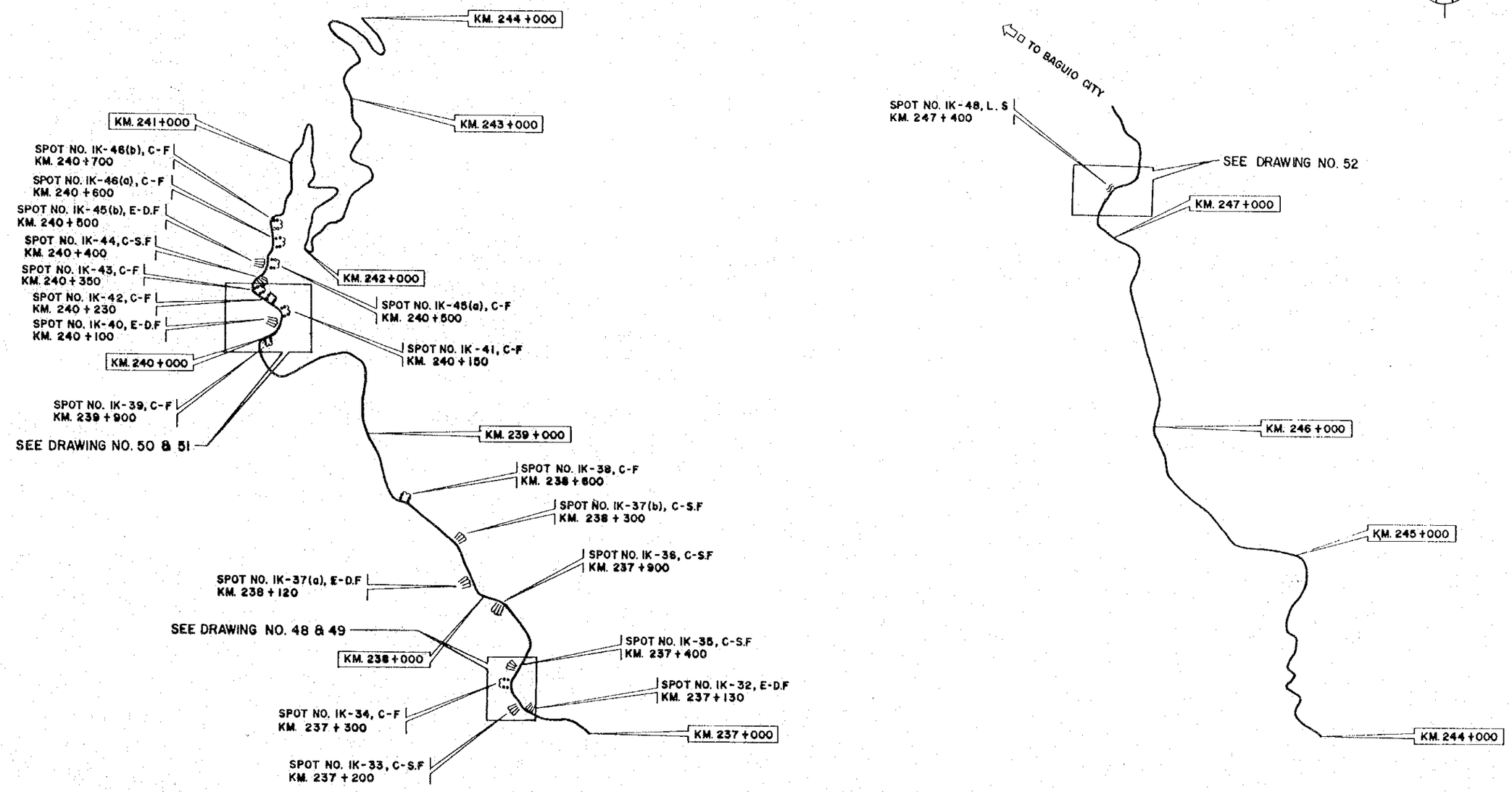
SECTION B
SCALE 1:200

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:20,000	LOCATION OF DISASTER SPOTS (KENNON ROAD) (1)	DRAWING NO. 42/52



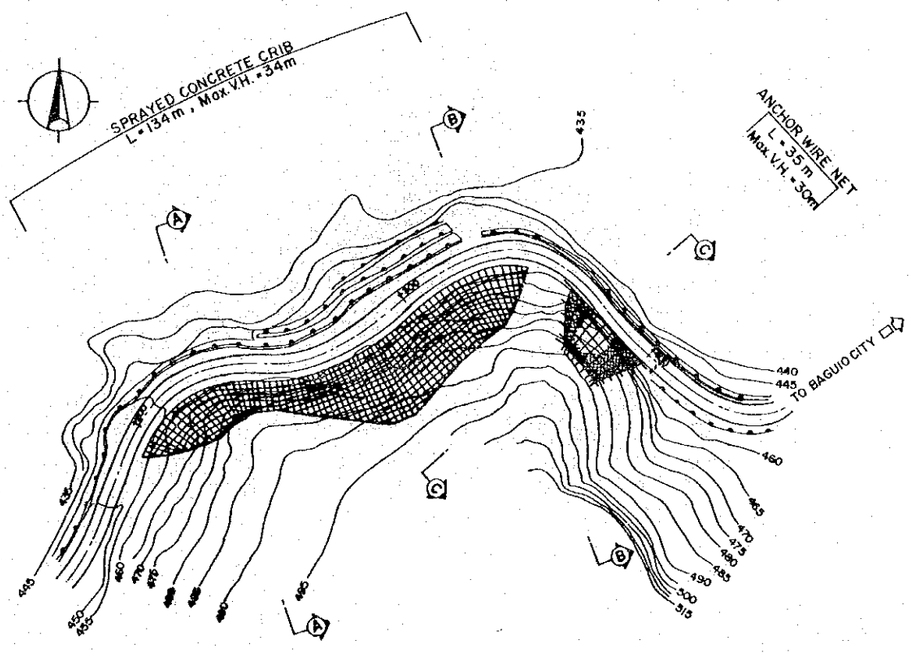
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT

SCALE	LOCATION OF DISASTER SPOTS (KENNON ROAD) (2)	DRAWING NO.
1:20,000		43/52

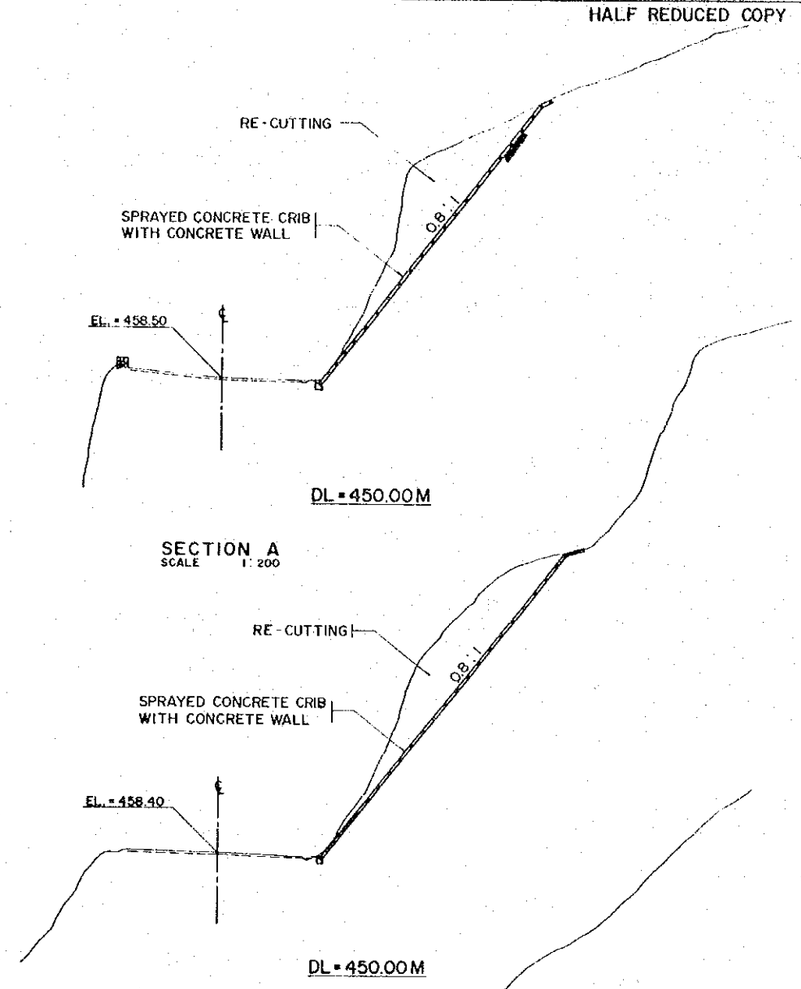


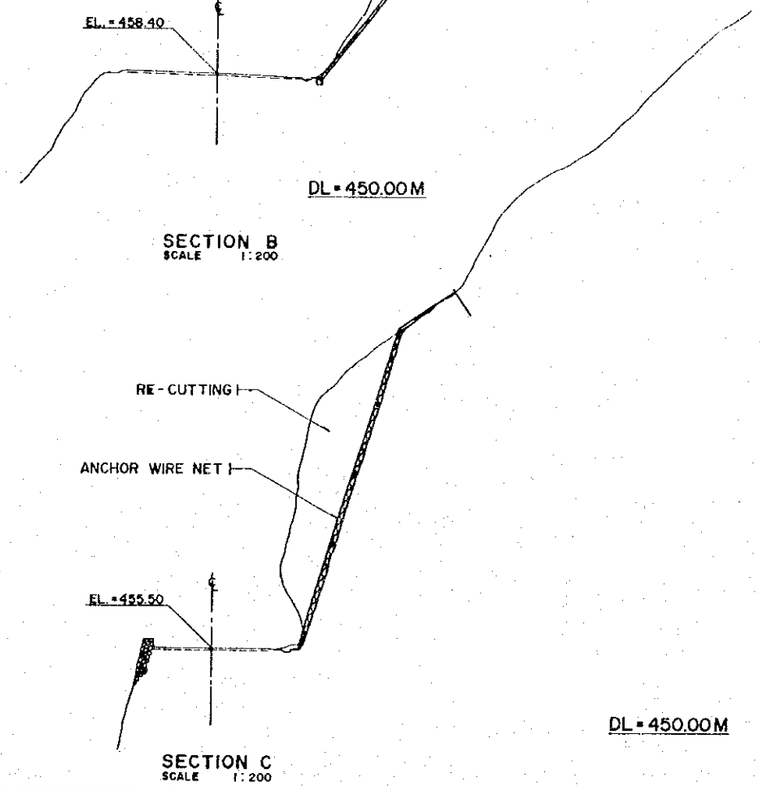
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. IK-10 (a)	DRAWING NO 44/52

HALF REDUCED COPY



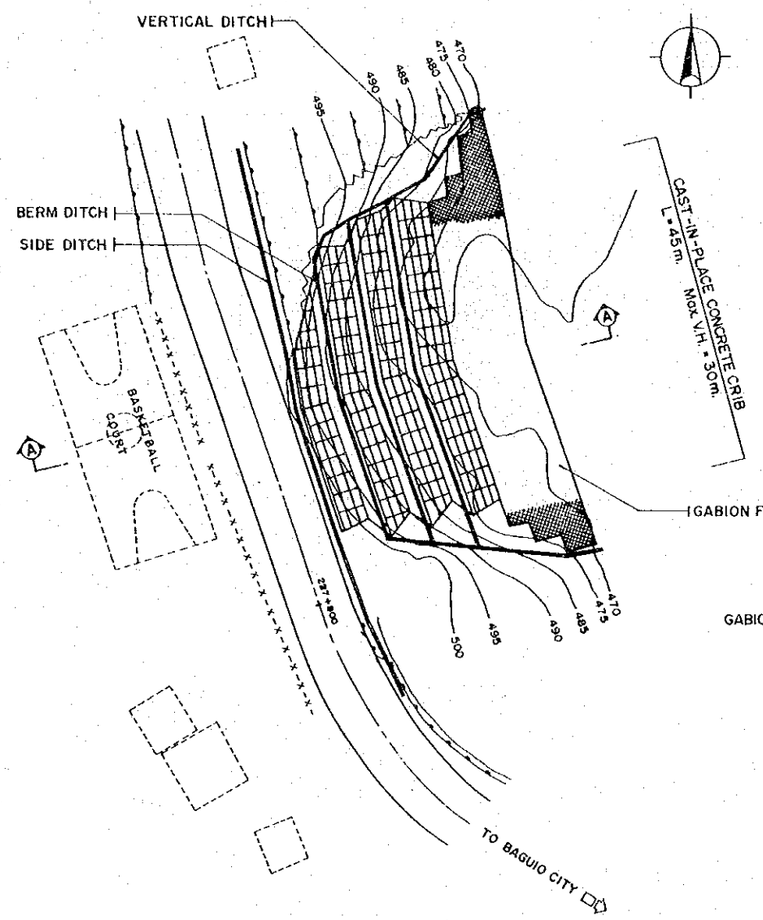
PLAN
SCALE 1:1000



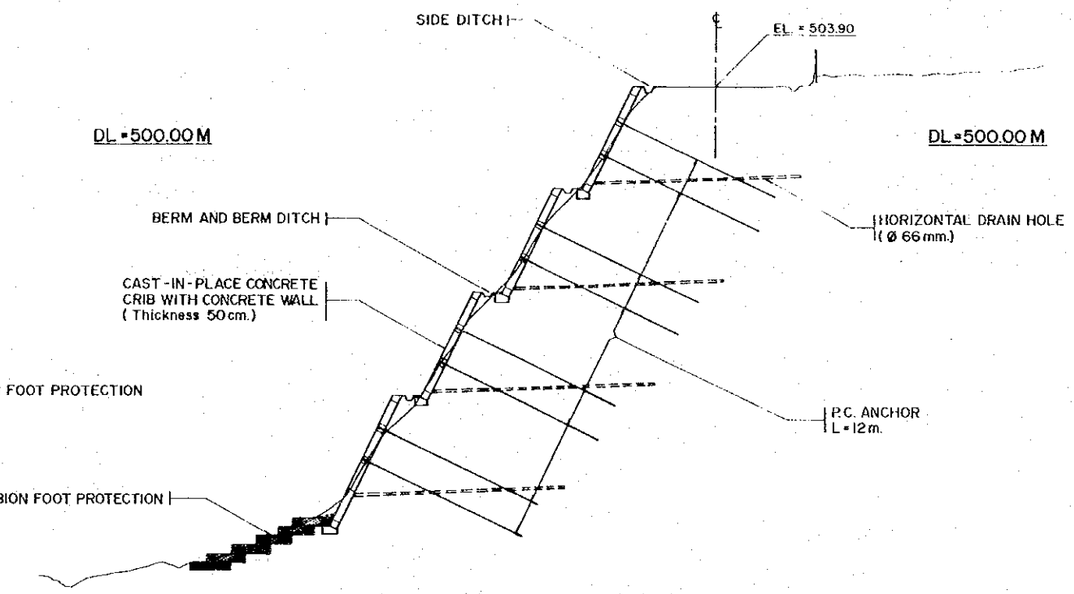


THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1: 400 1: 200	COUNTERMEASURES FOR SPOT NO. IK-10 (b)	DRAWING NO. 45/52

HALF REDUCED COPY



PLAN
SCALE 1:400

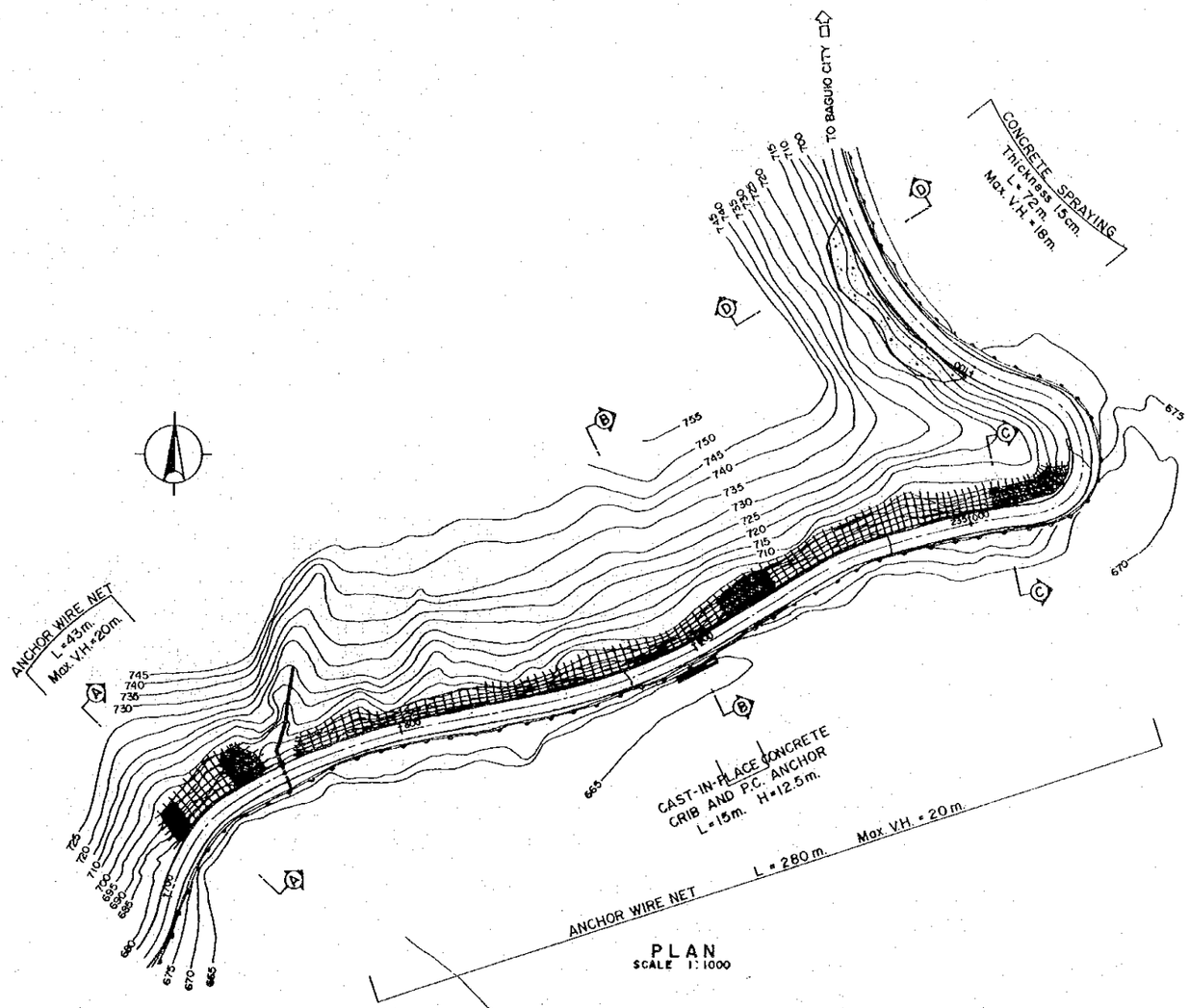


SECTION
SCALE 1:200

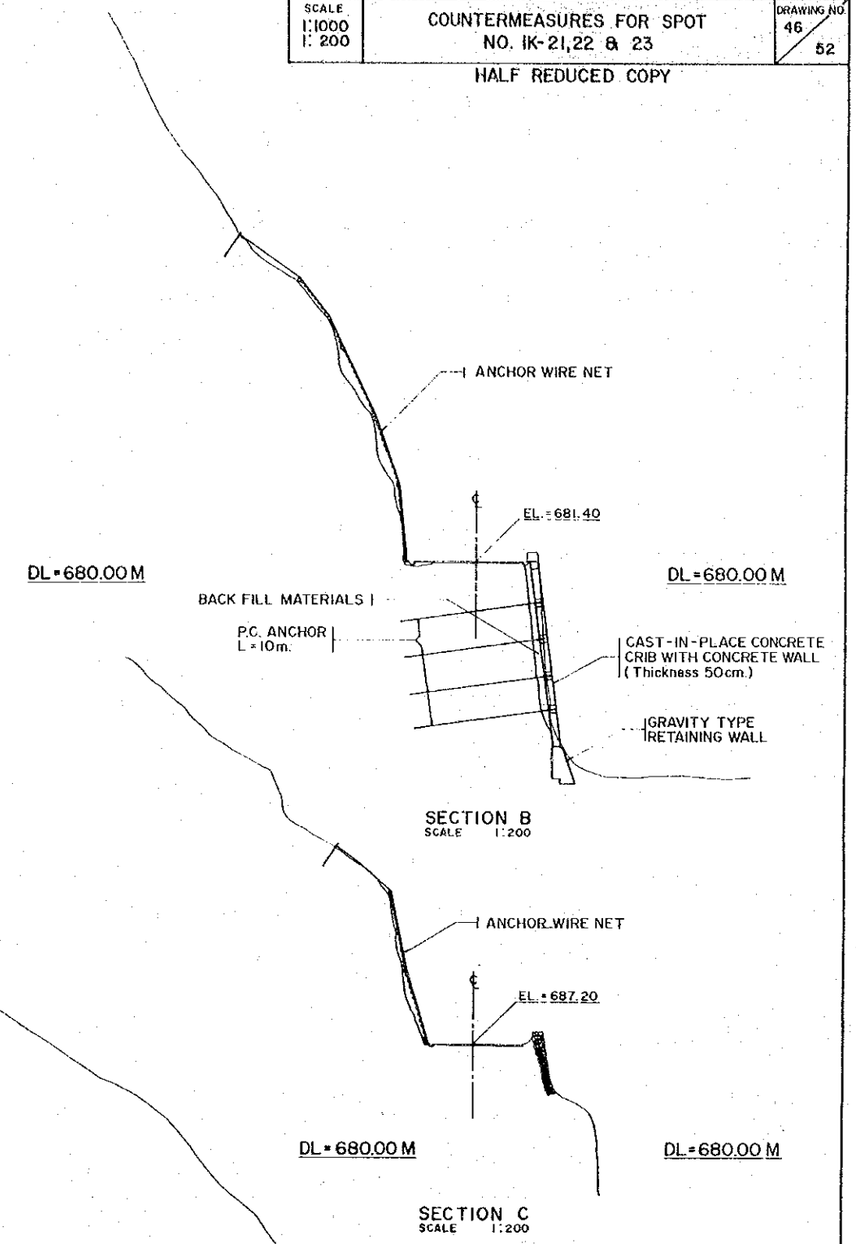
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT

SCALE		DRAWING NO.
1:1000 1: 200	COUNTERMEASURES FOR SPOT NO. IK-21,22 & 23	46/52

HALF REDUCED COPY

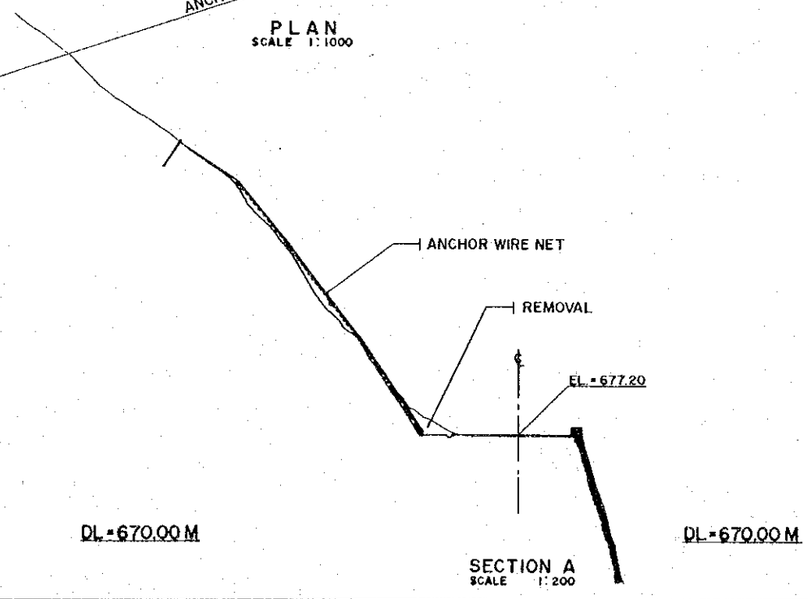


PLAN
SCALE 1:1000

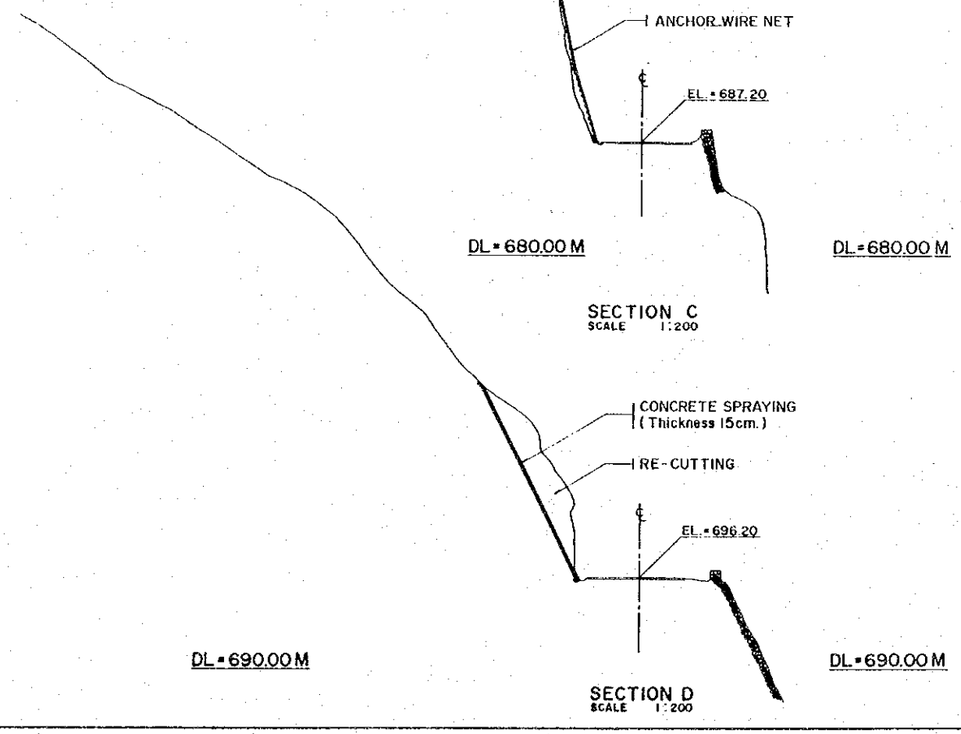


SECTION B
SCALE 1:200

SECTION C
SCALE 1:200



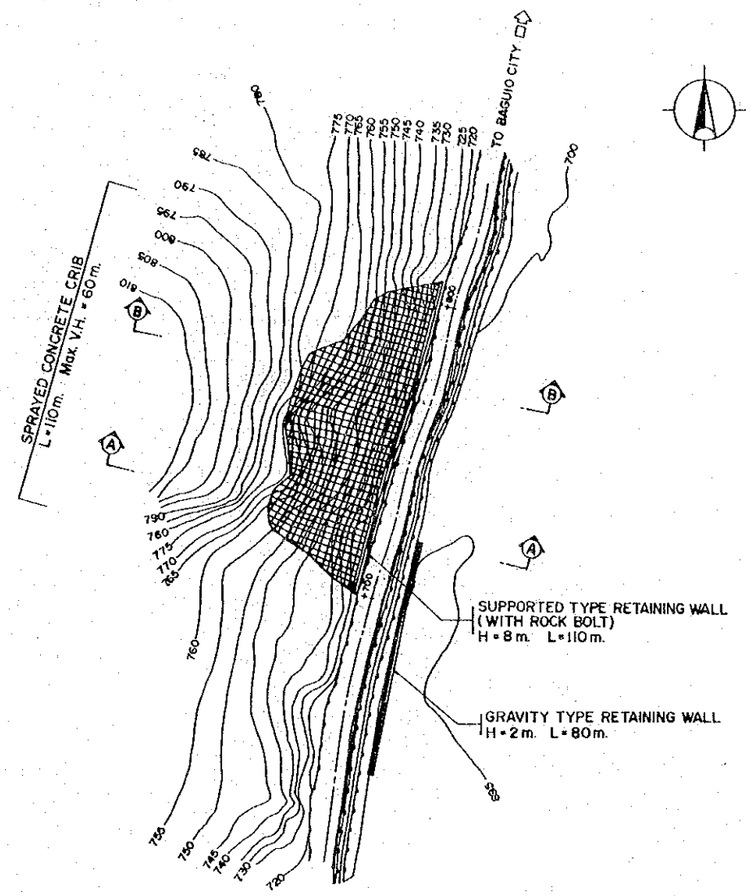
SECTION A
SCALE 1:200



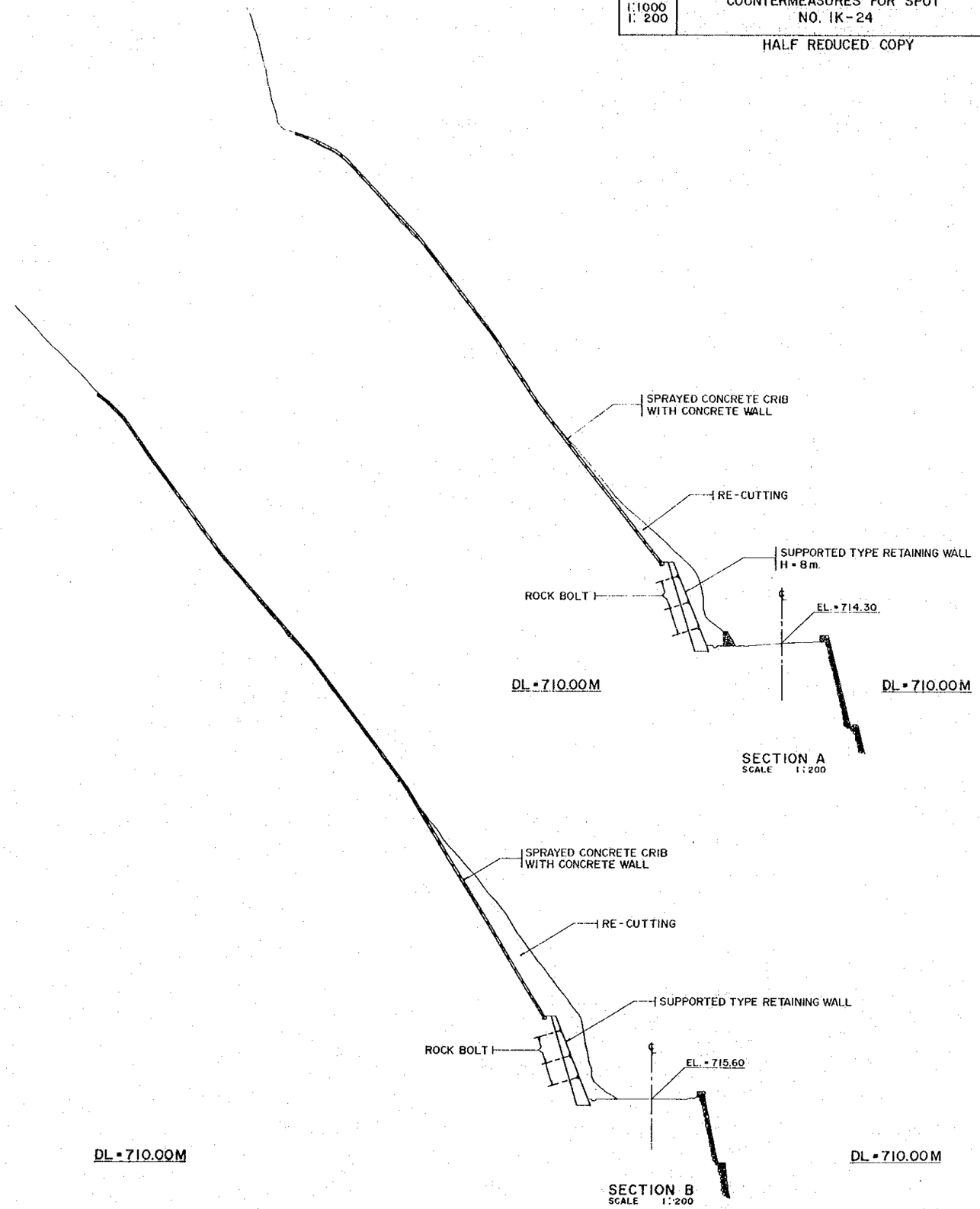
SECTION D
SCALE 1:200

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. IK-24	DRAWING NO. 47/52

HALF REDUCED COPY

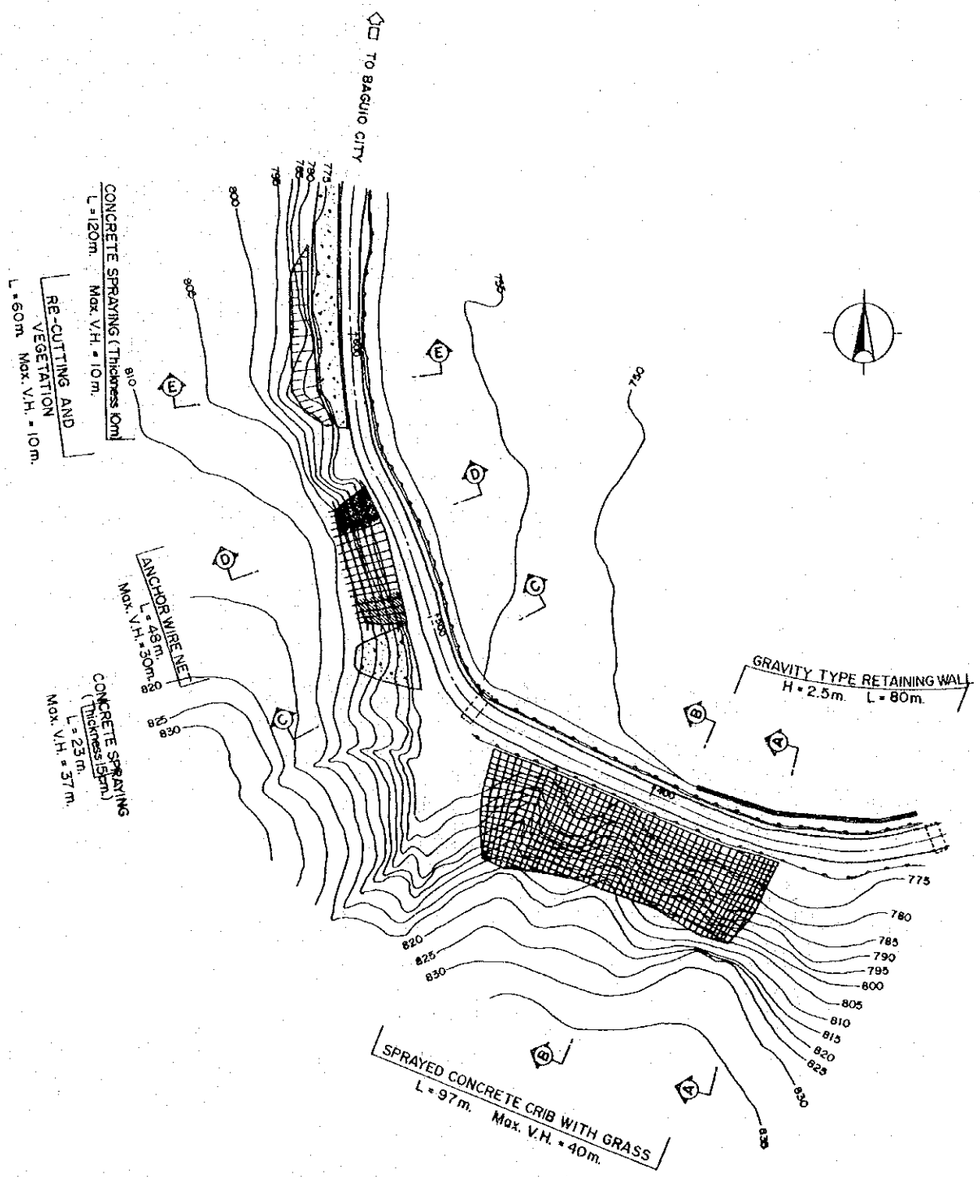


PLAN
SCALE 1:1000

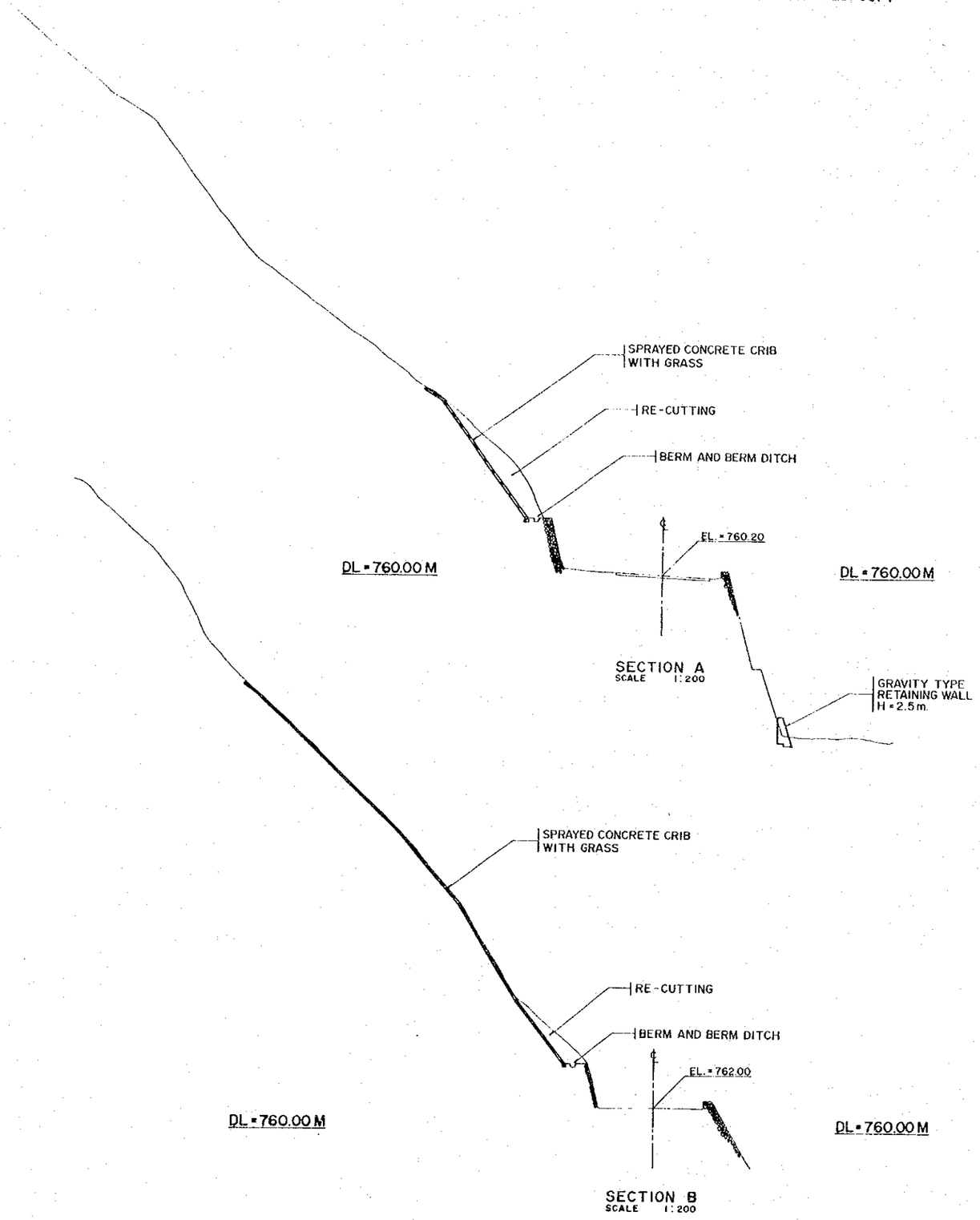


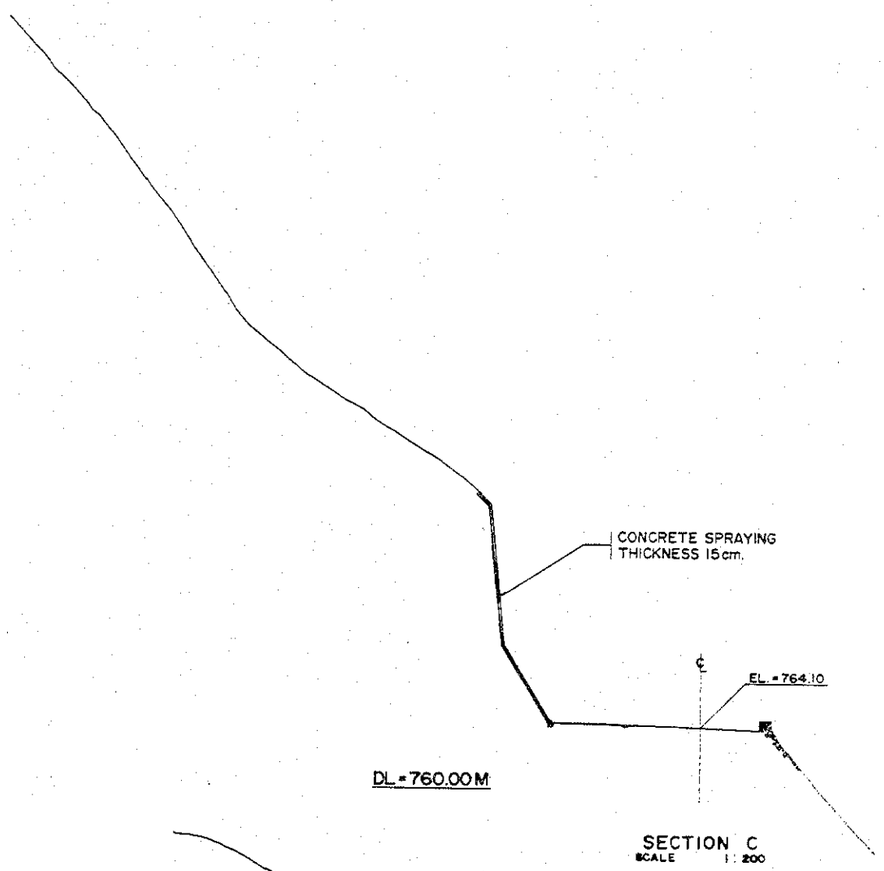
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. IK-32,33,34 & 35-(1)	DRAWING NO. 48/52

HALF REDUCED COPY

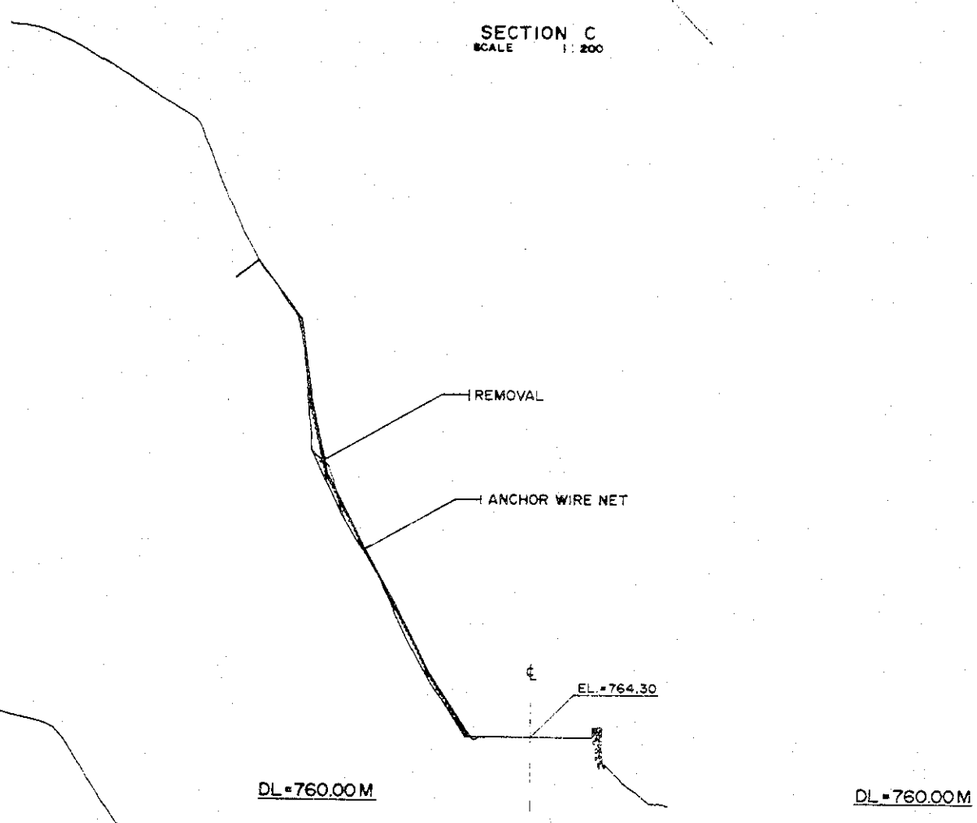


PLAN
SCALE 1:1000

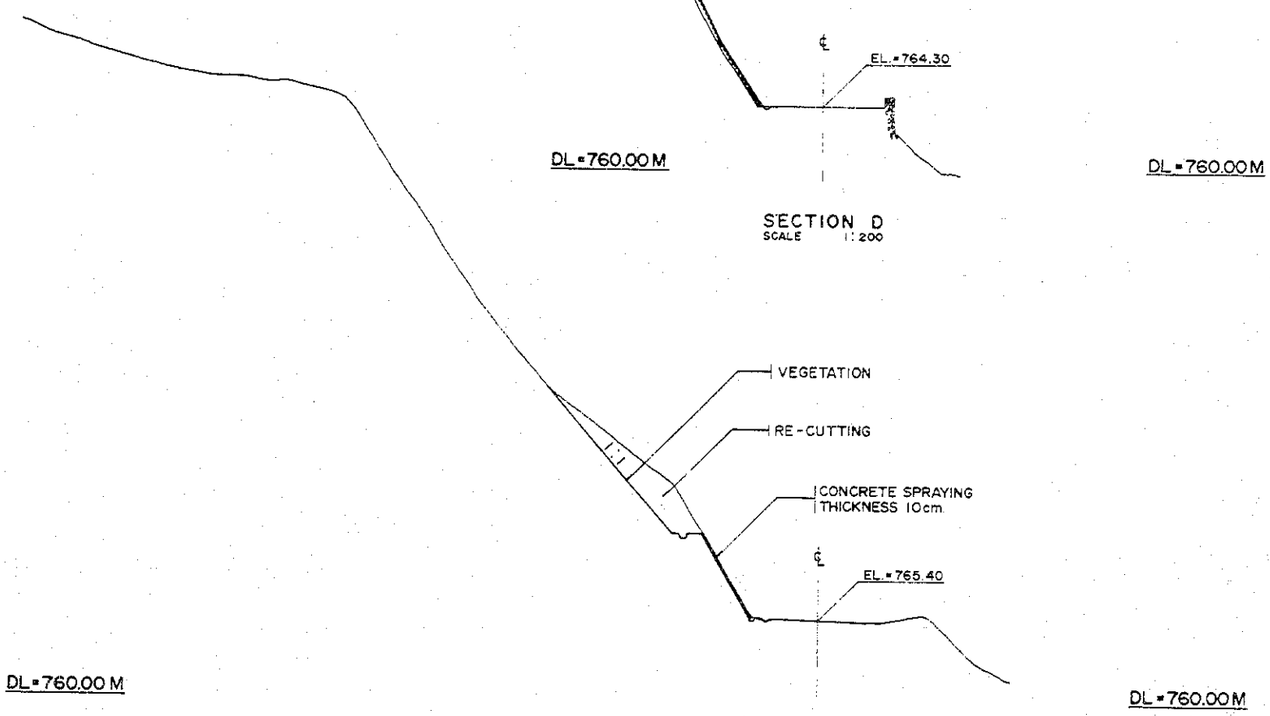




SECTION C
SCALE 1:200



SECTION D
SCALE 1:200



SECTION E
SCALE 1:200

HALF REDUCED COPY

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT

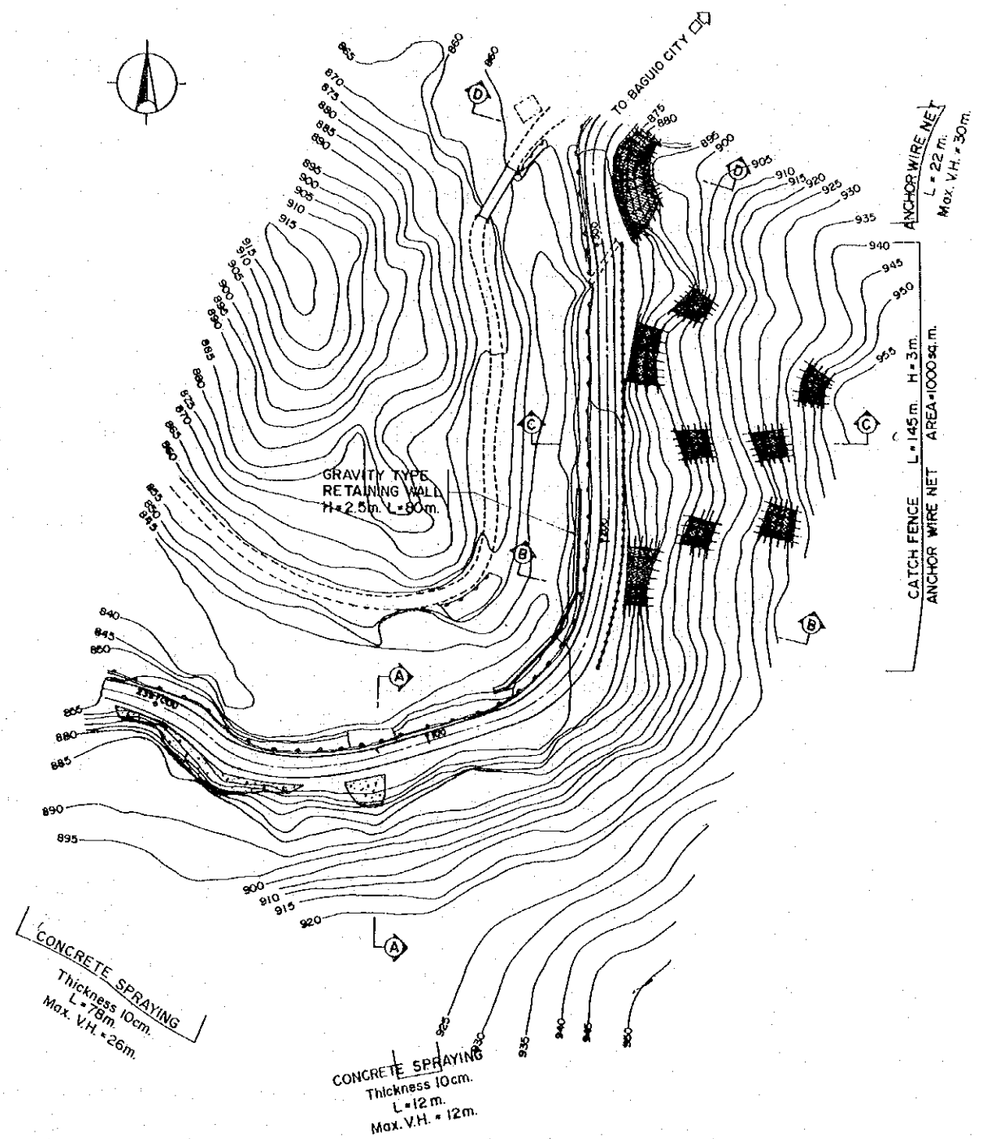
SCALE 1: 200

COUNTERMEASURES FOR SPOT NO. IK-32, 33, 34 & 35-(2)

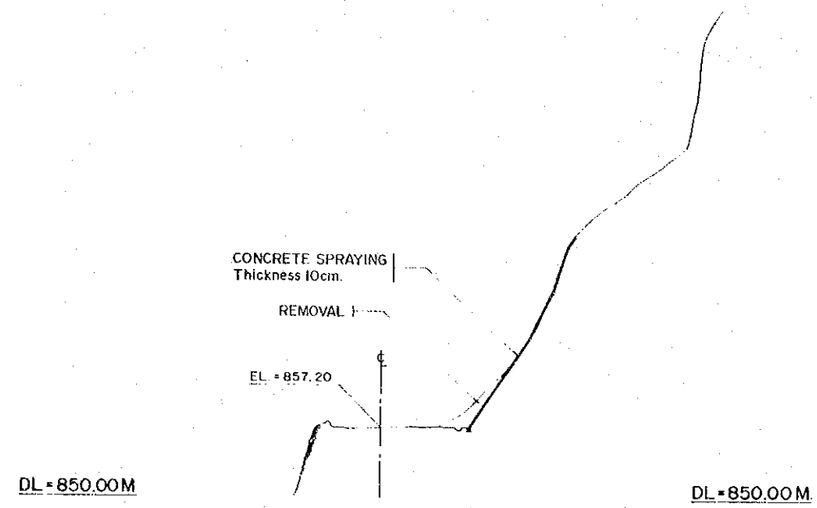
DRAWING NO. 49/62

THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1: 300	COUNTERMEASURES FOR SPOT NO. IK-39,40,41 & 42-(1)	DRAWING NO 50/52

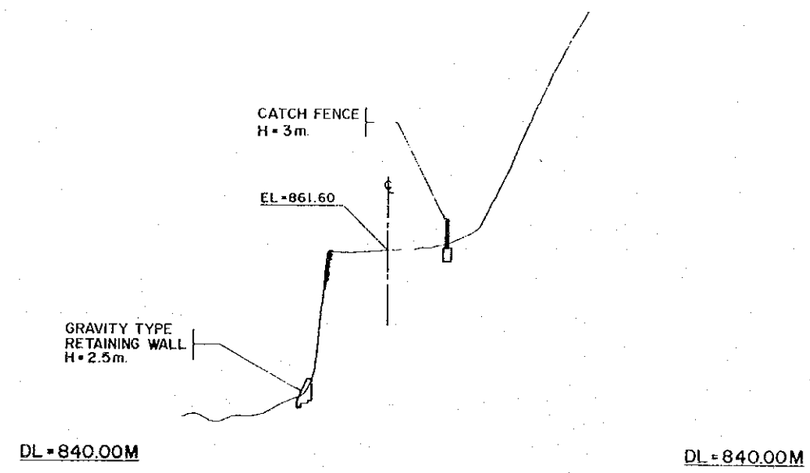
HALF REDUCED COPY



PLAN
SCALE 1:1000



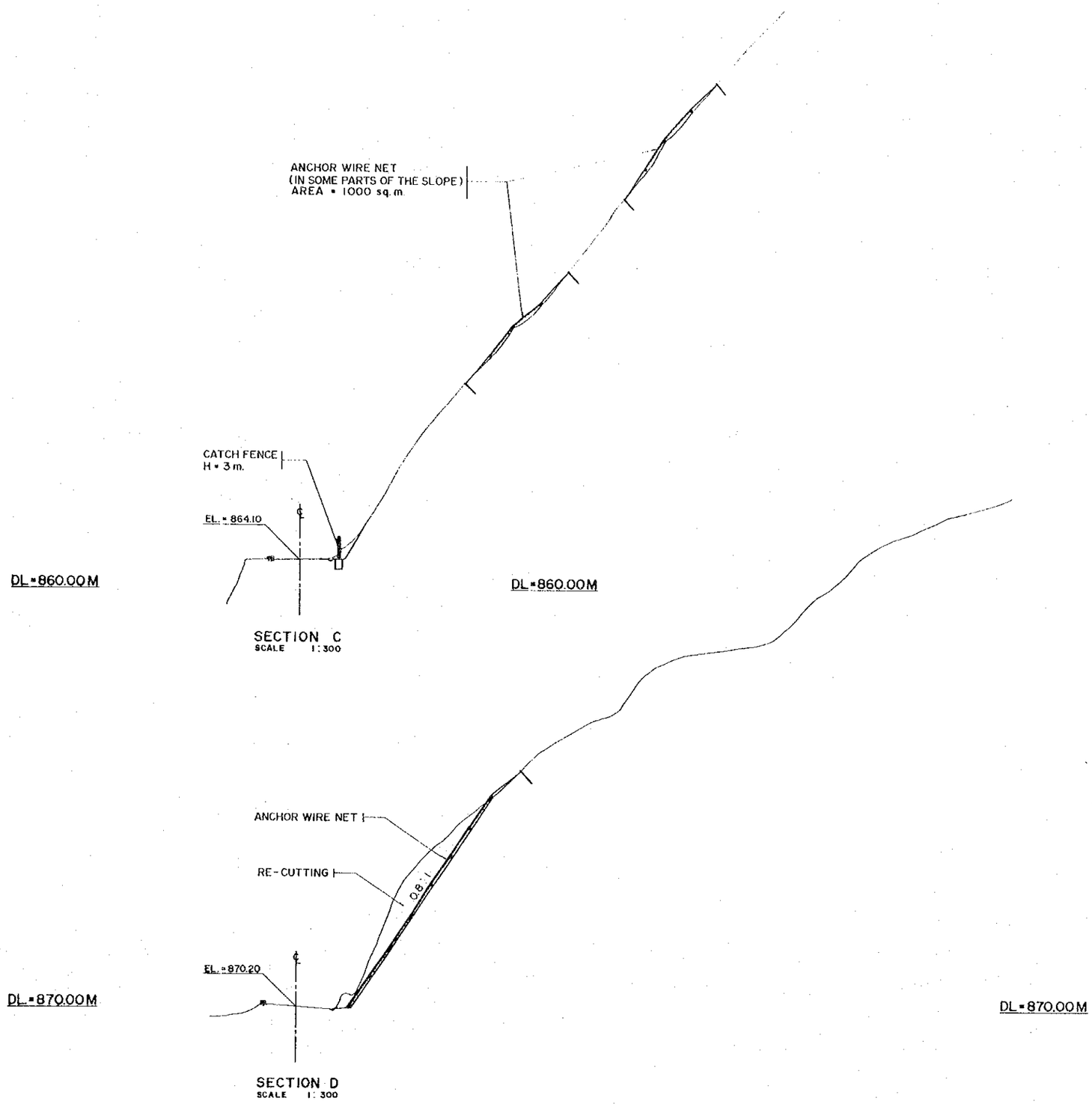
SECTION A
SCALE 1:300



SECTION B
SCALE 1:300

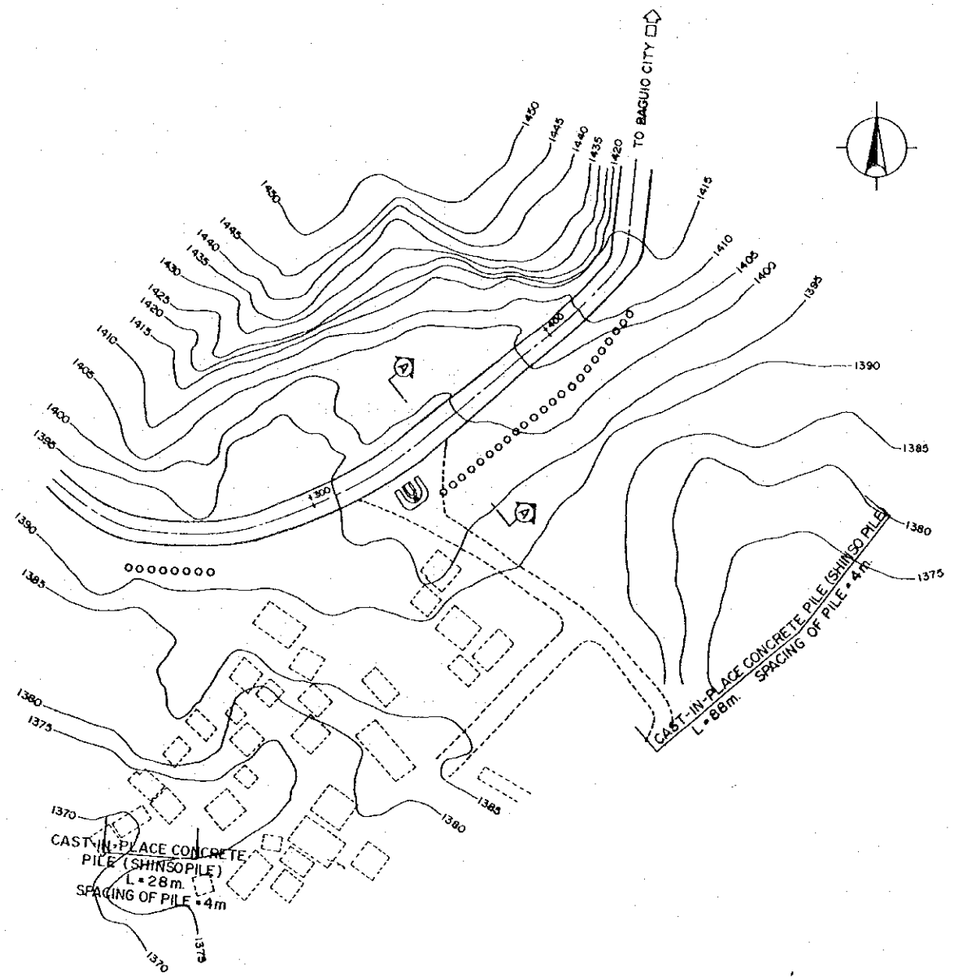
THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1: 300	COUNTERMEASURES FOR SPOT NO. IK-39,40,41 & 42-(2)	DRAWING NO. 51/52

HALF REDUCED COPY

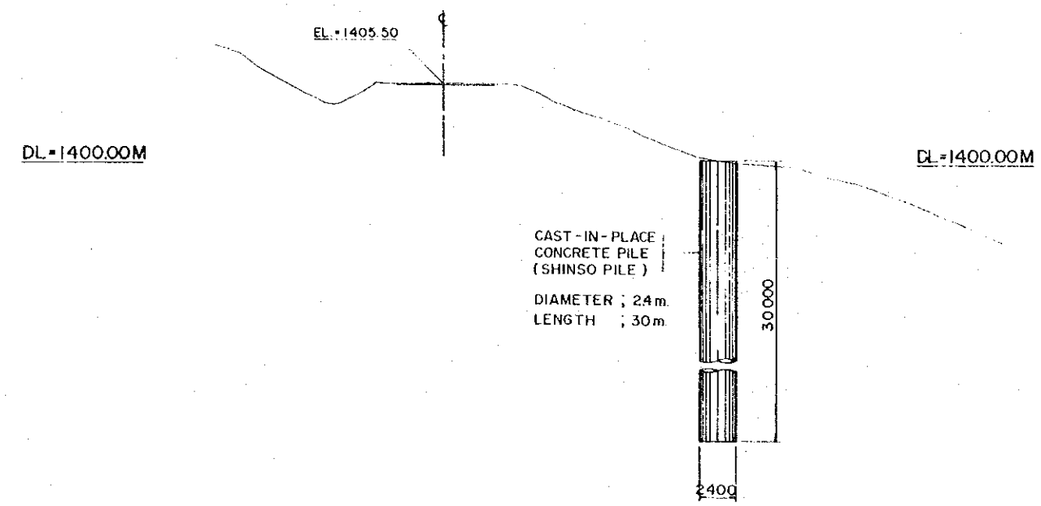


THE FEASIBILITY STUDY OF PHIL. ROAD DISASTER PREVENTION PROJECT		
SCALE 1:1000 1:200	COUNTERMEASURES FOR SPOT NO. IK-48	DRAWING NO 52/52

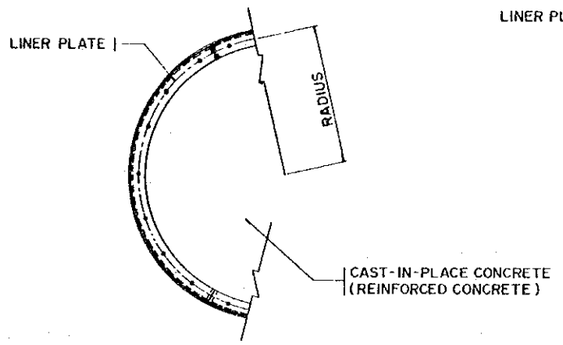
HALF REDUCED COPY



PLAN
SCALE 1:1000

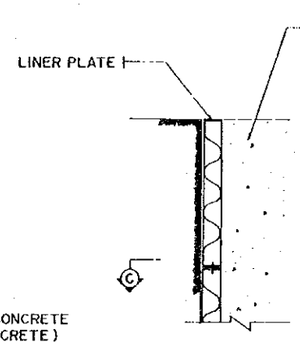


SECTION A
SCALE 1:200

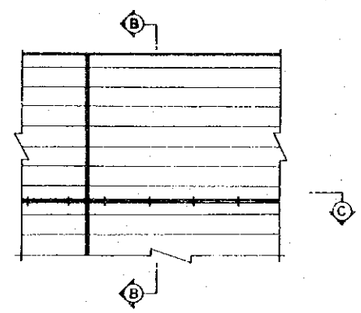


SECTION C

PLAN
NOT TO SCALE



SECTION B
NOT TO SCALE



ELEVATION
NOT TO SCALE

DETAILS OF CAST-IN-PLACE CONCRETE PILE (SHINSO PILE)