ROYAL GOVERNMENT OF LAOS

VIENTIÁNE AIRPORT EXTENSION PROJECTAN

CONTRACT : DRAWINGS

PREPARED FOR; OVERSEAS TECHNICAL COOPERATION ACTION.

GOVERNMENT OF JAPAN

PREPARED BY ; NEPPON KOET CO., LTD.

CONSULTING ENGINEERS, TOKYO, JAPAN MAY 1971

ROYAL GOVERNMENT OF LAOS

VIENTIANE AIRPORT EXTENSION PROJECT-II

CONTRACT DRAWINGS



PREPARED FOR; OVERSEAS TECHNICAL COOPERATION AGENCY GOVERNMENT OF JAPAN

PREPARED BY; NIPPON KOEI CO., LTD.

CONSULTING ENGINEERS, TOKYO, JAPAN MAY 1971

国際協力事業団				
受入 月日 '84. 7. ~4	L112			
容録№ 08057	75.7			
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.

VIENTIANE AIRPORT EXTENSION PROJECT-I

VIENTIANE, ROYAL GOVERNMENT OF LAOS

CONTRACT DRAWINGS

PREPARED FOR ; OVERSEAS TECHNICAL COOPERATION

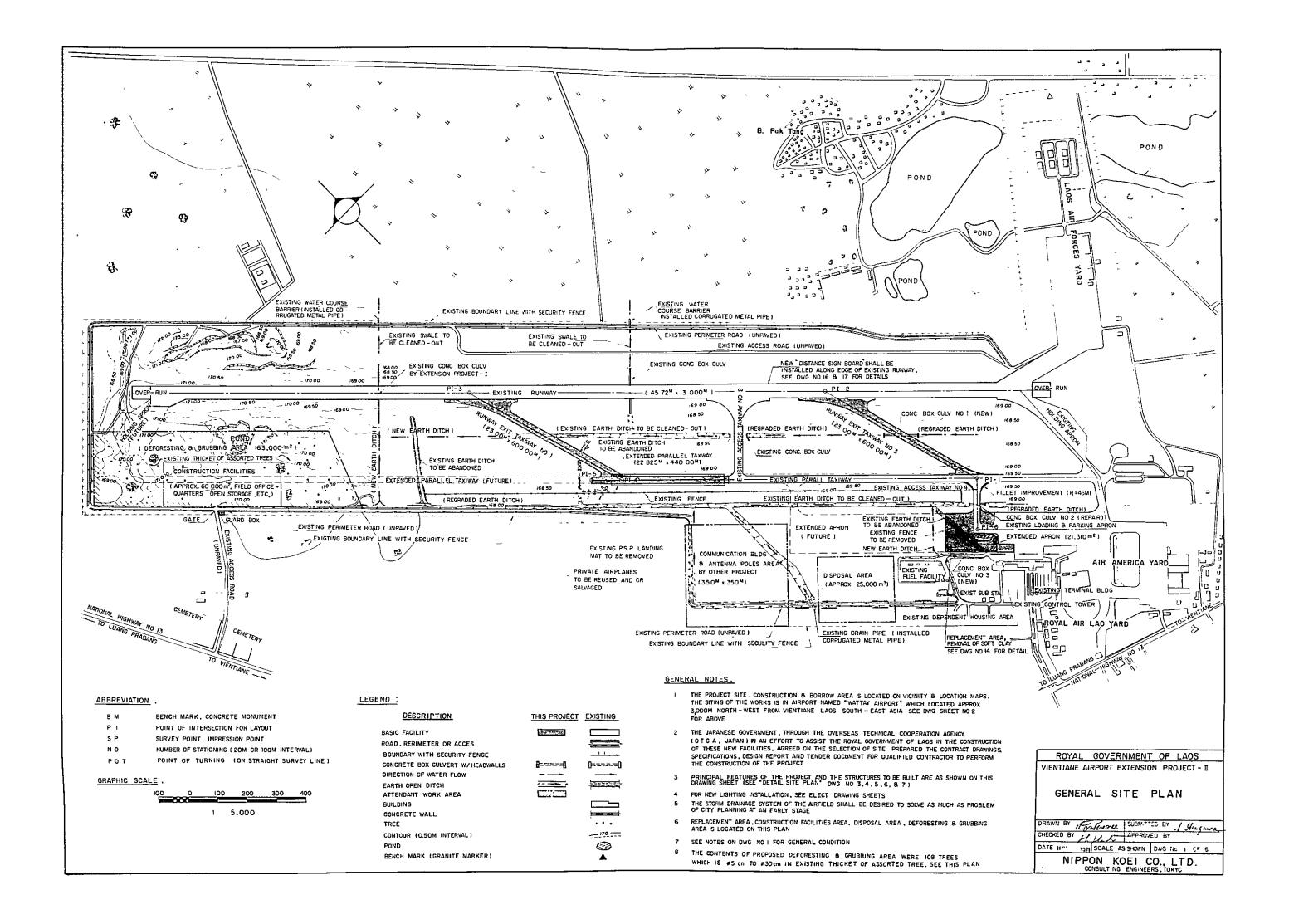
AGENCY, GOVERNMENT OF JAPAN

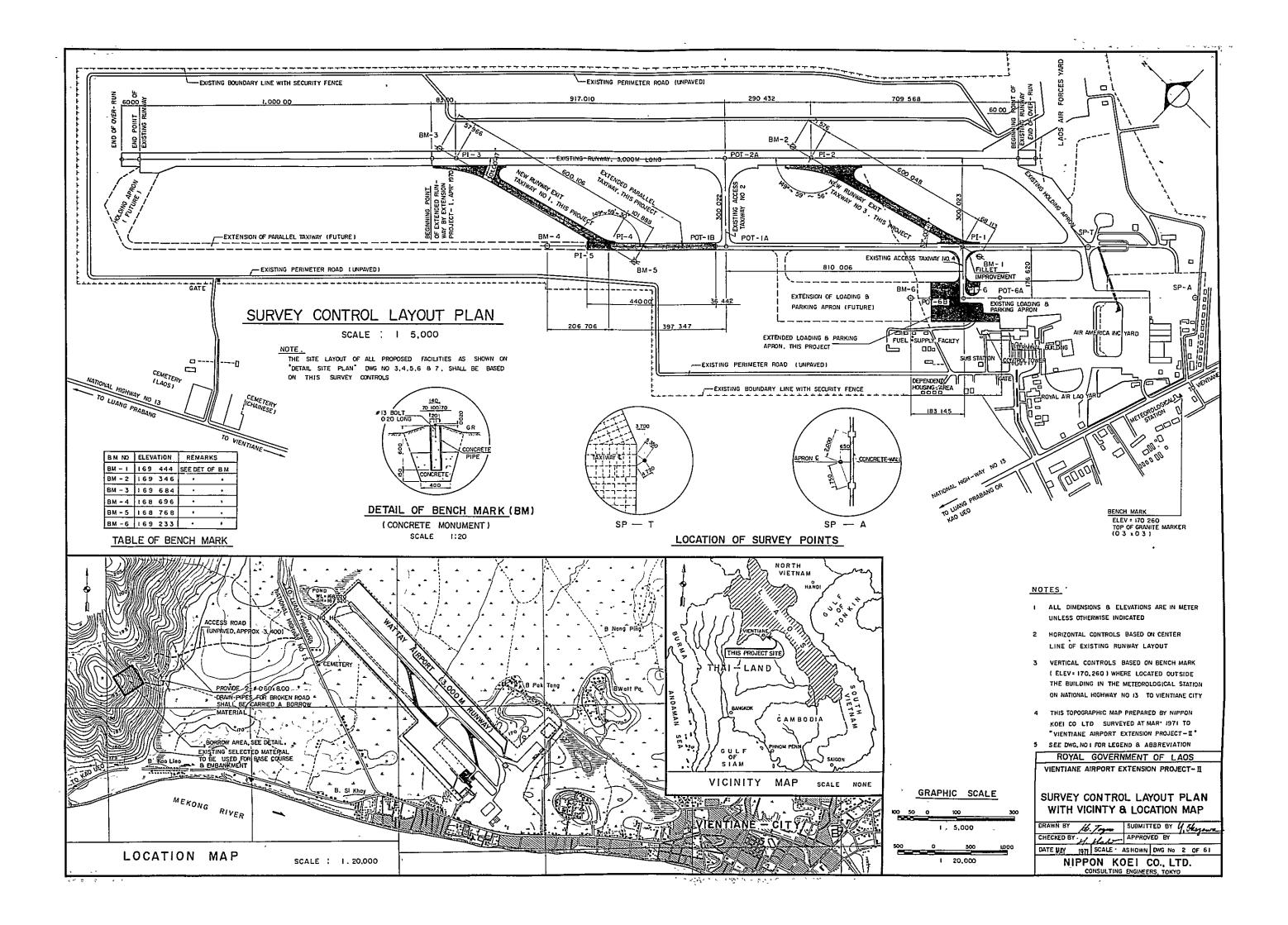
PREPARED BY ; NIPPON KOEI CO., LTD.

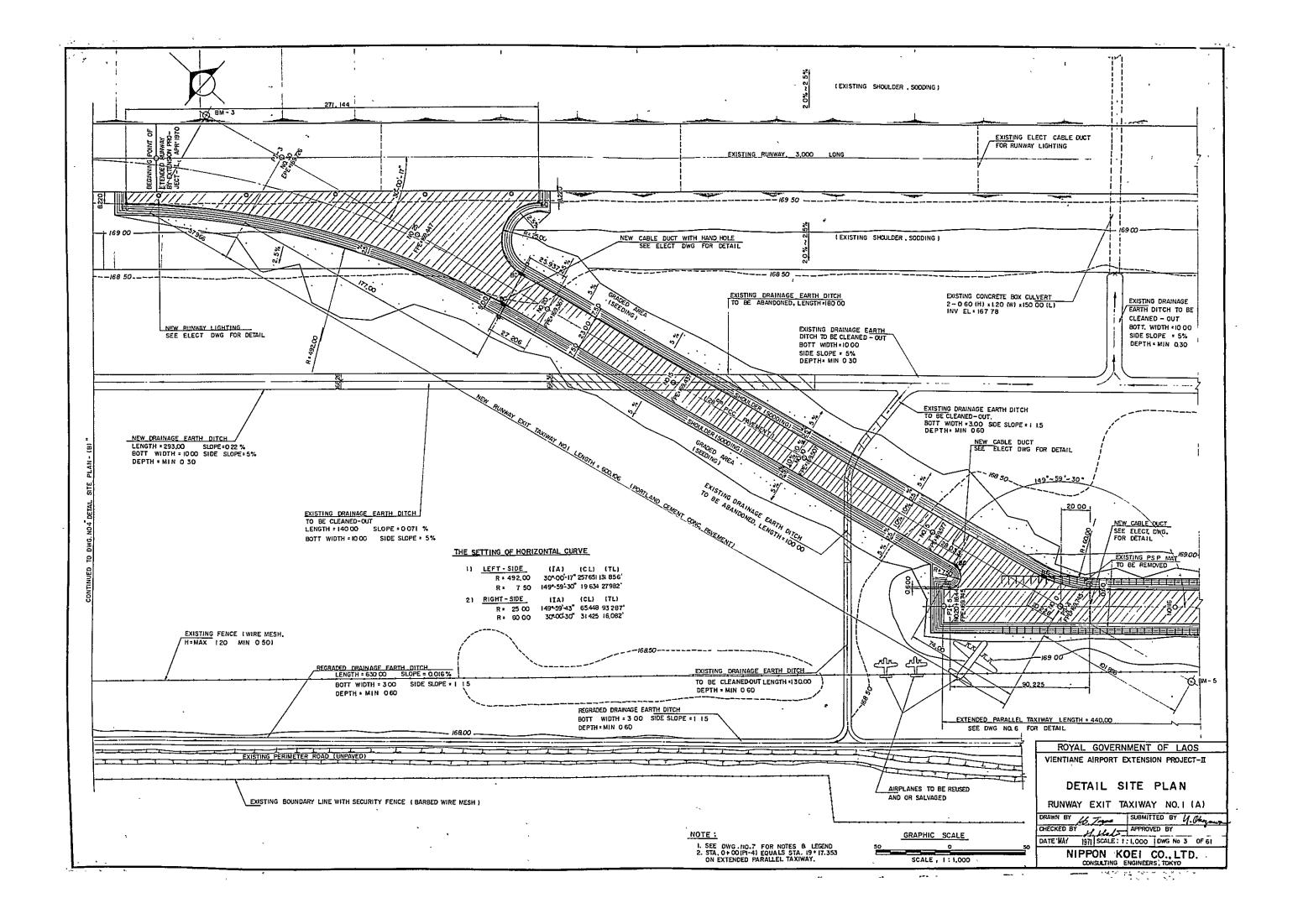
CONSULTING ENGINEERS, TOKYO

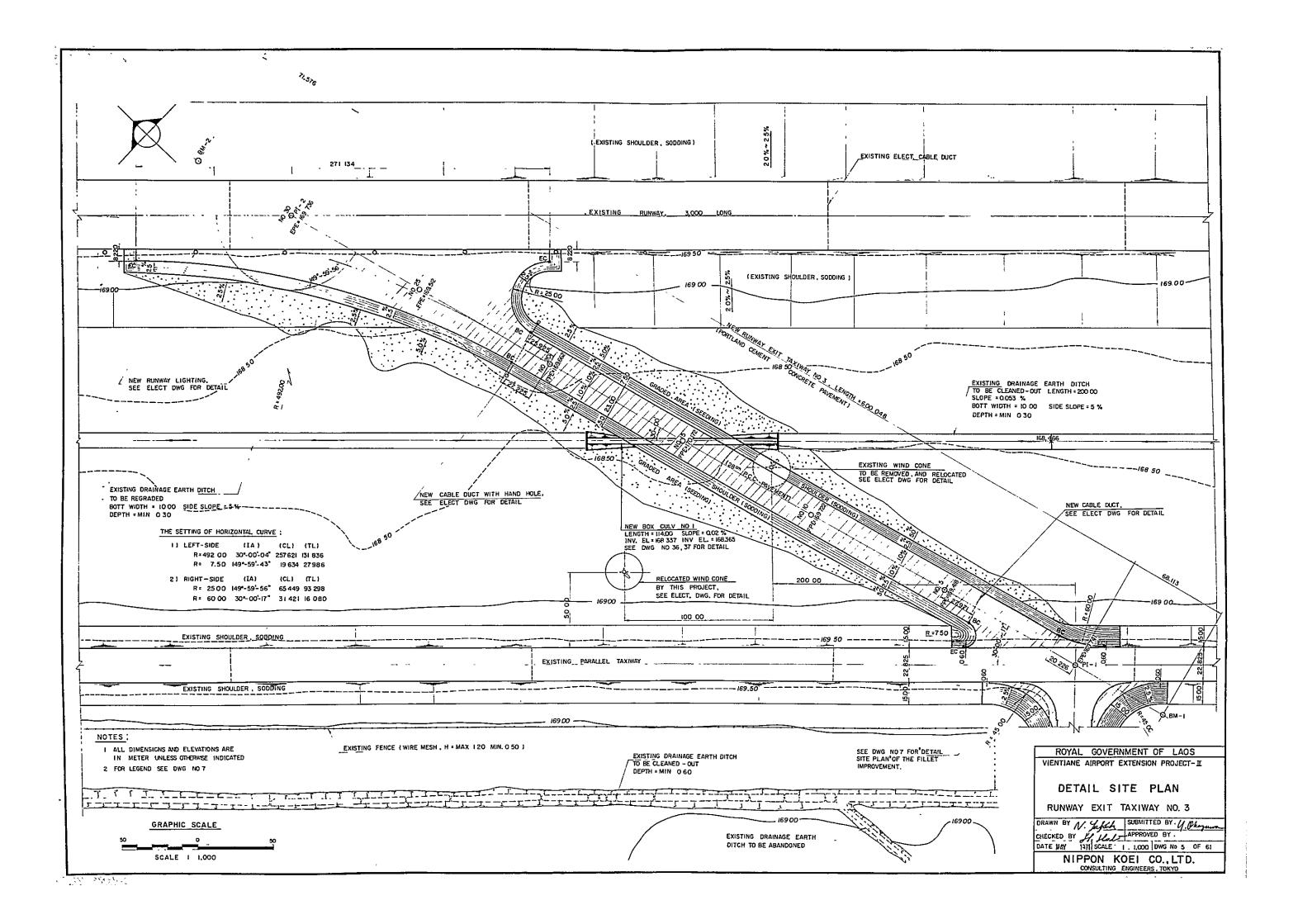
MAY 1971

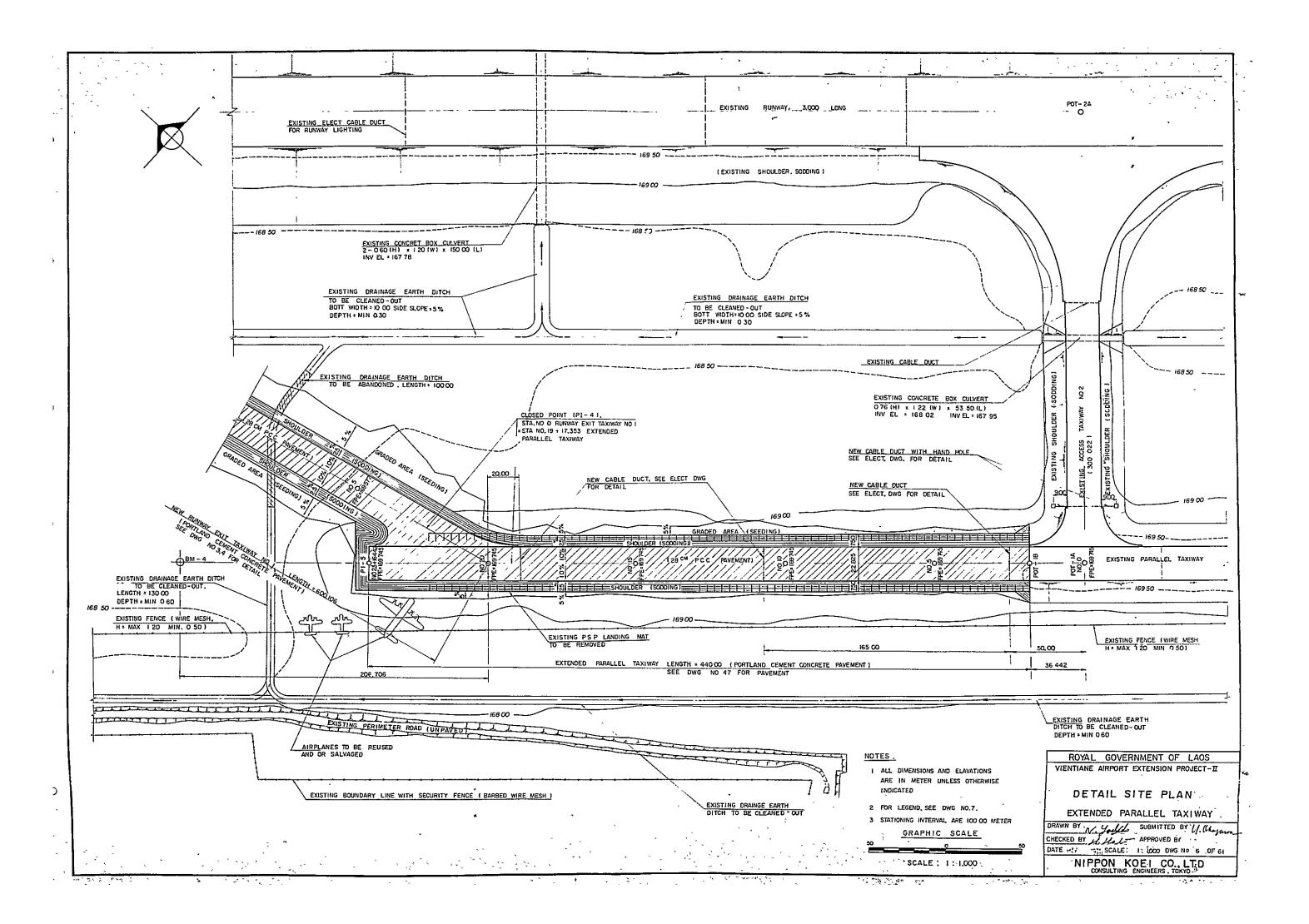
DRAWING SCHEDULE							
DWG,NQ.	TITLE	OMBMC	TITLE		DWG. NO	TITLE	
	CIVIL WORKS;	30	CROSS SECTION, EXTENDED PARALLEL TAXIWAY	(5)	58	DETAIL OF WIND CONE	
	GENERAL SITE PLAN	31	CROSS SECTION, EXTENDED PARALLEL TAXIWAY	(6)	59	DETAIL OF LIGHT BASE	
2	SURVEY CONTROL LAYOUT PLAN WITH VICINITY & LOCATION MAP	32	CROSS SECTION, EXTENDED APRON	(1)	60	DETAIL OF HANDHOLE AND CABLE DUCT	
3	DETAIL SITE PLAN, RUNWAY EXIT TAXIWAY NO I (A)	33	CROSS SECTION, EXTENDED APRON	(2)	61	CONSTRUCTION TIME SCHEDULE	
4	DETAIL SITE PLAN. RUNWAY EXIT TAXIWAY NO I (B)	34	CROSS SECTION, EXTENDED APRON	(3)			
5	DETAIL SITE PLAN, RUNWAY EXIT TAXIWAY NO 3	35	CROSS SECTION, FILLET IMPROVEMENT				
6	DETAIL SITE PLAN, EXTENDED PARALLEL TAXIWAY	36	DRAINAGE STRUCTURE, BOX CULVERT NO	O I (I)			
7	DETAIL SITE PLAN, EXTENDED APRON & FILLET IMPROVEMENT	37		0 (2)			
8	PROFILE, RUNWAY EXIT TAXIWAY NO I	38	DRAINAGE STRUCTURE, BOX CULVERT NO) 2 (1)			
9	PROFILE, RUNWAY EXIT TAXIWAY NO. 3	39	DRAINAGE STRUCTURE, BOX CULVERT NO	2 (2)			
10	PROFILE, EXTENDED PARALLEL TAXIWAY	40	DRAINAGE STRUCTURE, BOX CULVERT NO	2 (3)			
11	PROFILE, EXTENDED APRON	41	DRAINAGE STRUCTURE, BOX CULVERT NO	02 (4)			
12	TYPICAL CROSS SECTION, RUNWAY EXIT TAXIWAY	42		3 (1)			
13	TYPICAL CROSS SECTION, EXTENDED PARALLEL TAXIWAY	43		3 (2)			
14	TYPICAL CROSS SECTION, EXTENDED APRON	44		3 (3)			
15	TYPICAL CROSS SECTION, BORROW & DISPOSAL AREA	45	CONC PAVEMENT, JOINT PLAN, EXTENDED APRON & FILLET	IMPROV'T			
16	DETAIL, DISTANCE SIGN BOARD (1)	46	CONCRETE PAVEMENT, JOINT PLAN, 2-RUNWAY EXIT TAX				
17	DETAIL, DISTANCE SIGN BOARD (2)	47	CONCRETE PAVEMENT, JOINT PLAN, EXTENDED PARALLE	L TAXIWAY			
18	CIVIL MISCELLANEOUS DETAIL	48	CONCRETE PAVEMENT, JOINT DETAILS				
19	MARKING	49	CONCRETE PAVEMENT, PARKING TIE-DOWN & GROUNDII	NG ANCHOR			
20	CROSS SECTION, RUNWAY EXIT TAXIWAY NO I (1)				_		
21	CROSS SECTION, RUNWAY EXIT TAXIWAY NO 1 (2)		ELECTRICAL WORKS ;				
22	CROSS SECTION, RUNWAY EXIT TAXIWAY NO 1 (3)	50	GENERAL ARRANGEMENT OF TAXIWAY LIGHT				
23	CROSS SECTION, RUNWAY EXIT TAXIWAY NO.3 (1)	51	DETAIL ARRANGEMENT OF TAXIWAY LIGHT (1)				
24	CROSS SECTION, RUNWAY EXIT TAXIWAY NO 3 (2)	52	DETAIL ARRANGEMENT OF TAXIWAY LIGHT (2)				
25	CROSS SECTION, RUNWAY EXIT TAXIWAY NO 3 (3)	53	DETAIL ARRANGEMENT OF TAXIWAY LIGHT (3)				
26	CROSS SECTION, EXTENDED PARALLEL TAXIWAY (1)	54	CONNECTION DIAGRAM				
27	CROSS SECTION, EXTENDED PARALLEL TAXIWAY (2)	55	SEQUENCE DIAGRAM FOR ILLUMINATION			4.4	
28	CROSS SECTION, EXTENDED PARALLEL TAXIWAY (3)	56	LAYOUT OF PANEL ARRANGEMENT				
29	CROSS SECTION, EXTENDED PARALLEL TAXIWAY (4)	57	LAYOUT OF POWER RECEIVING EQUIPMENT				

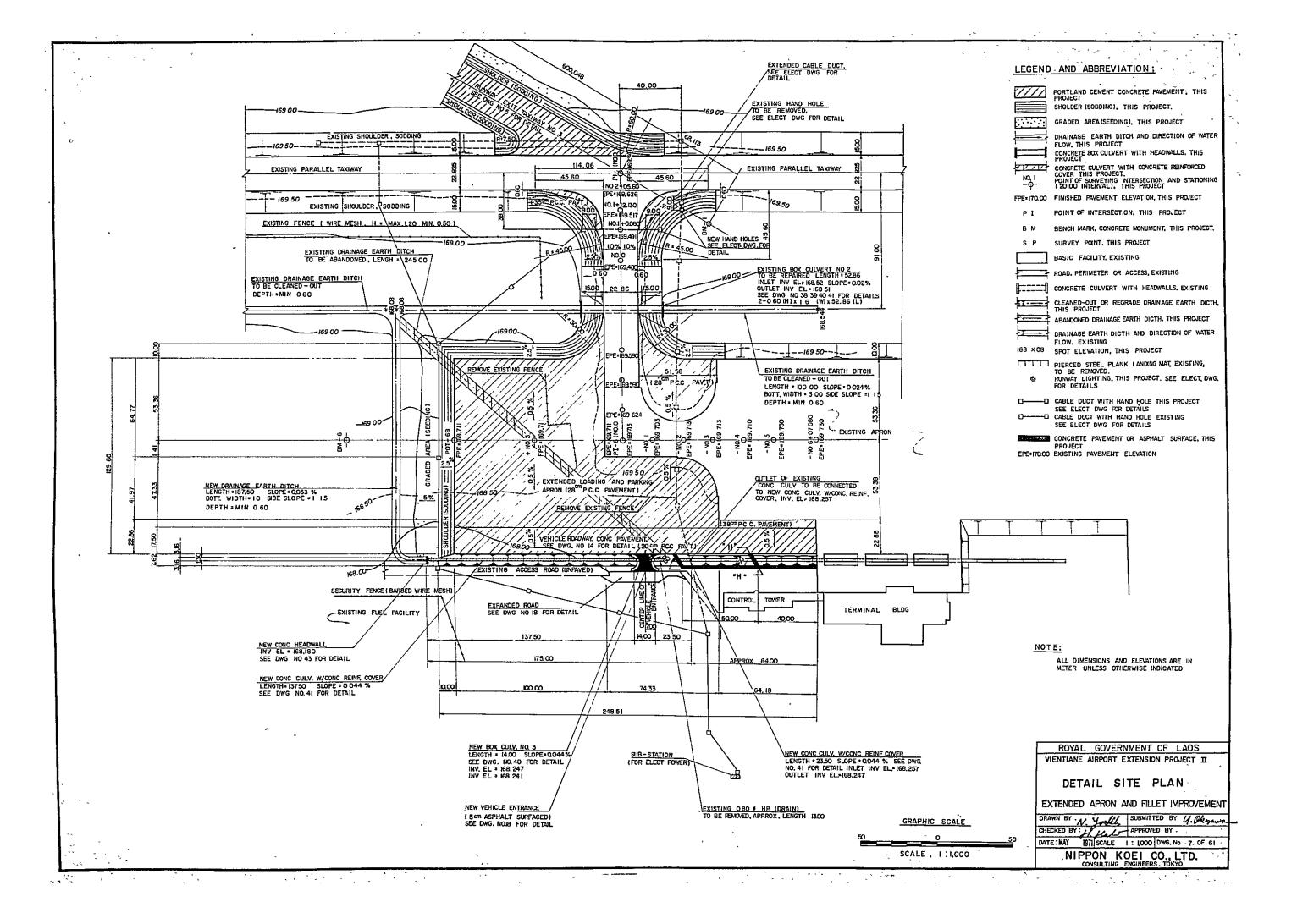


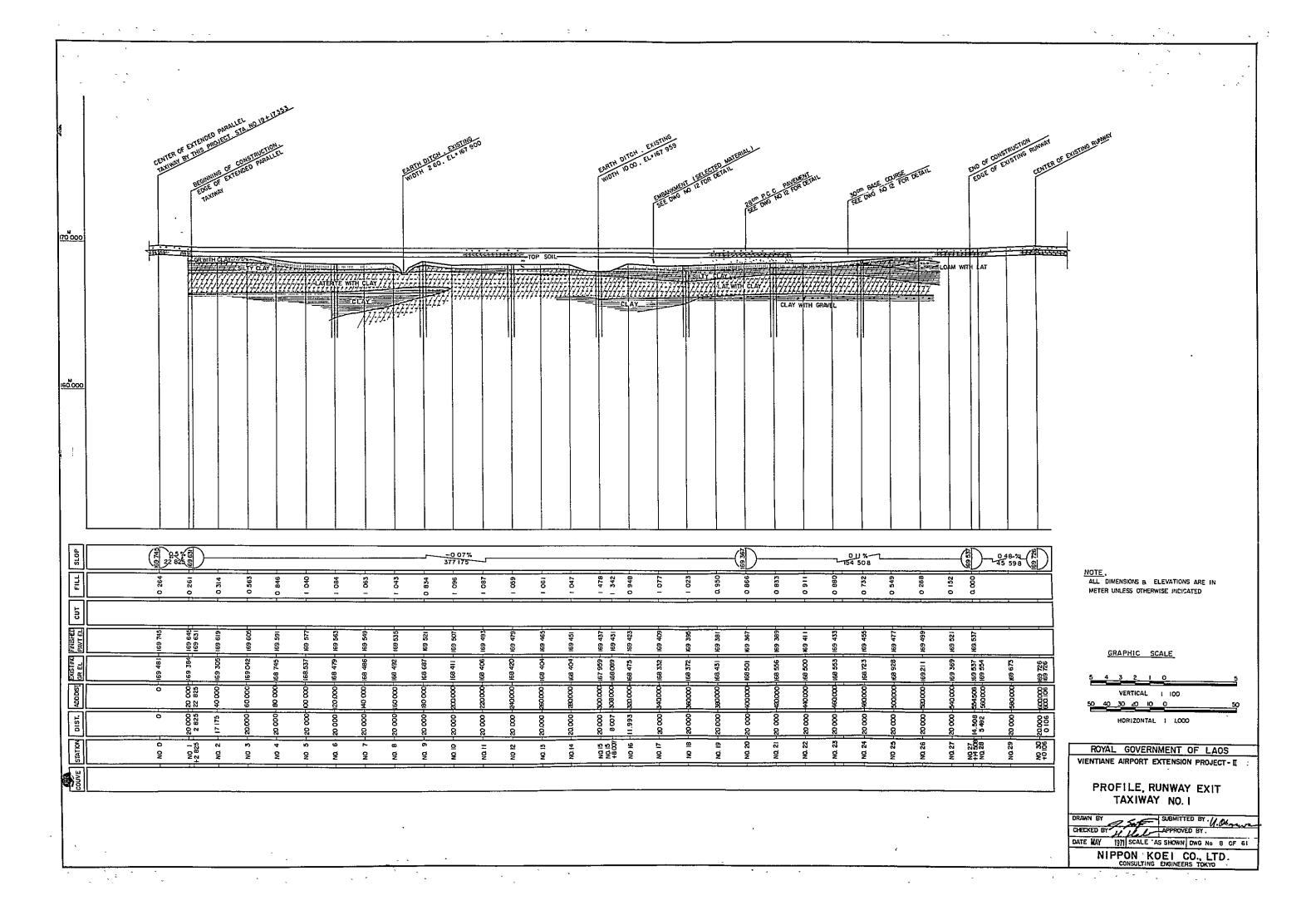


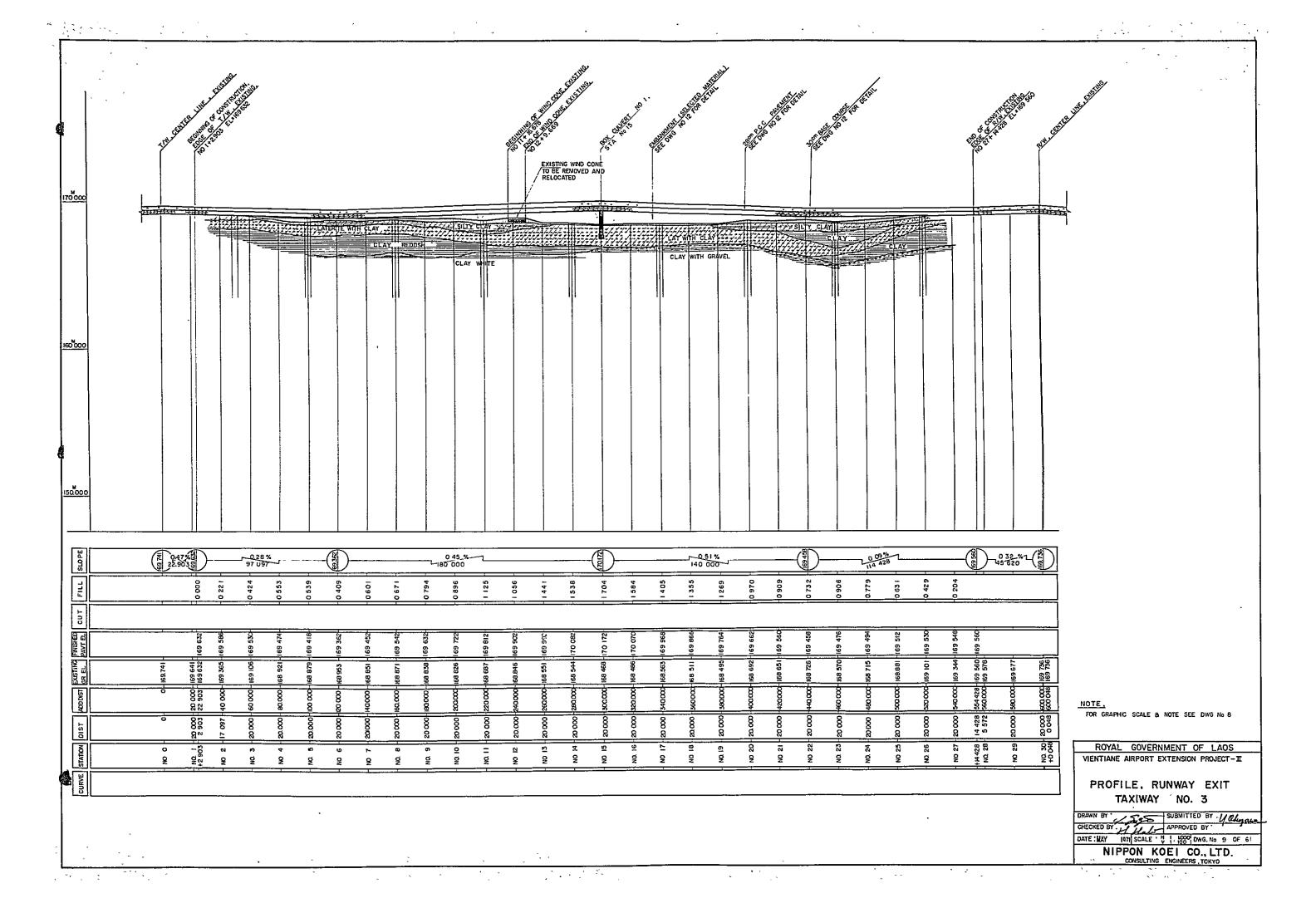


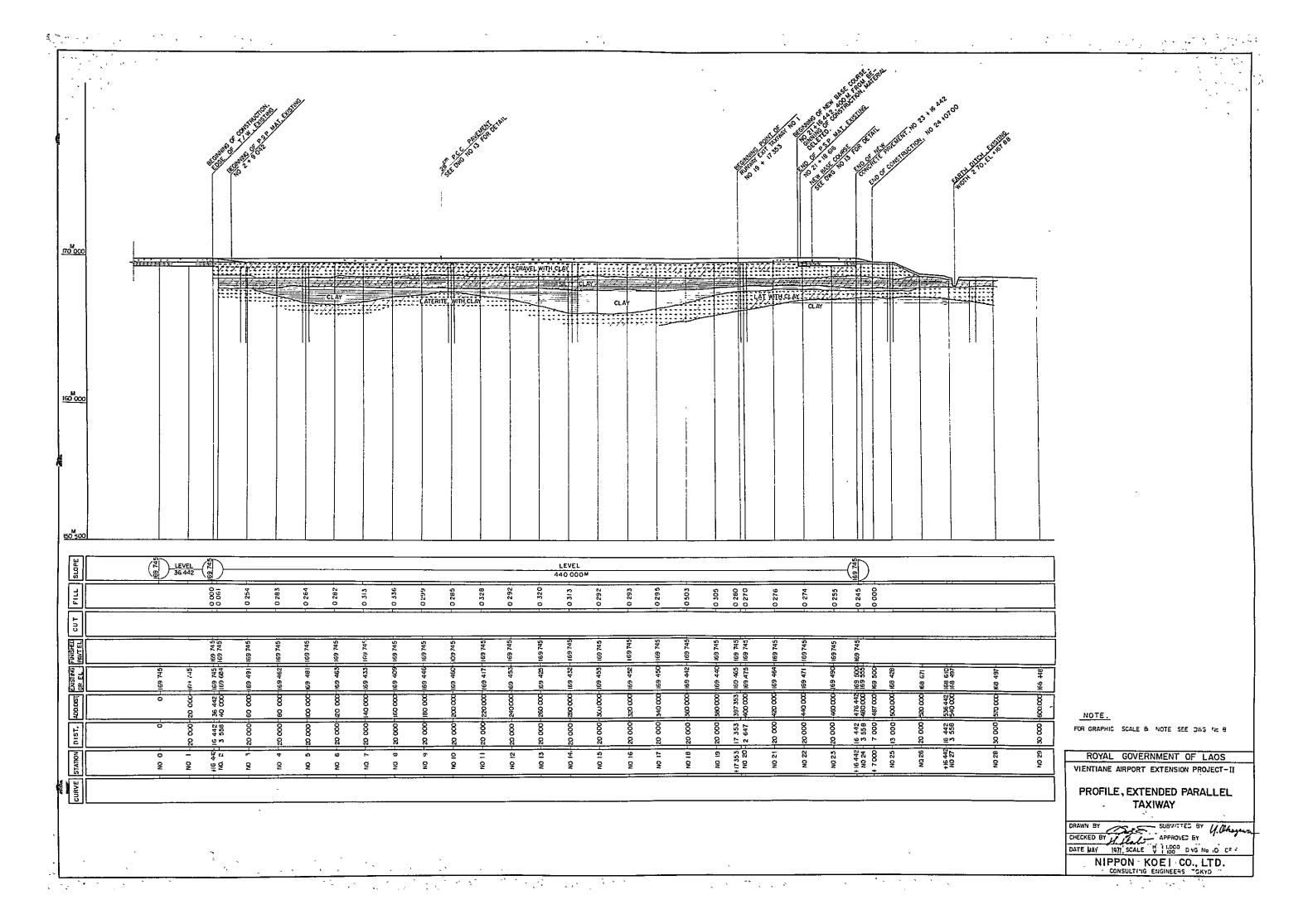


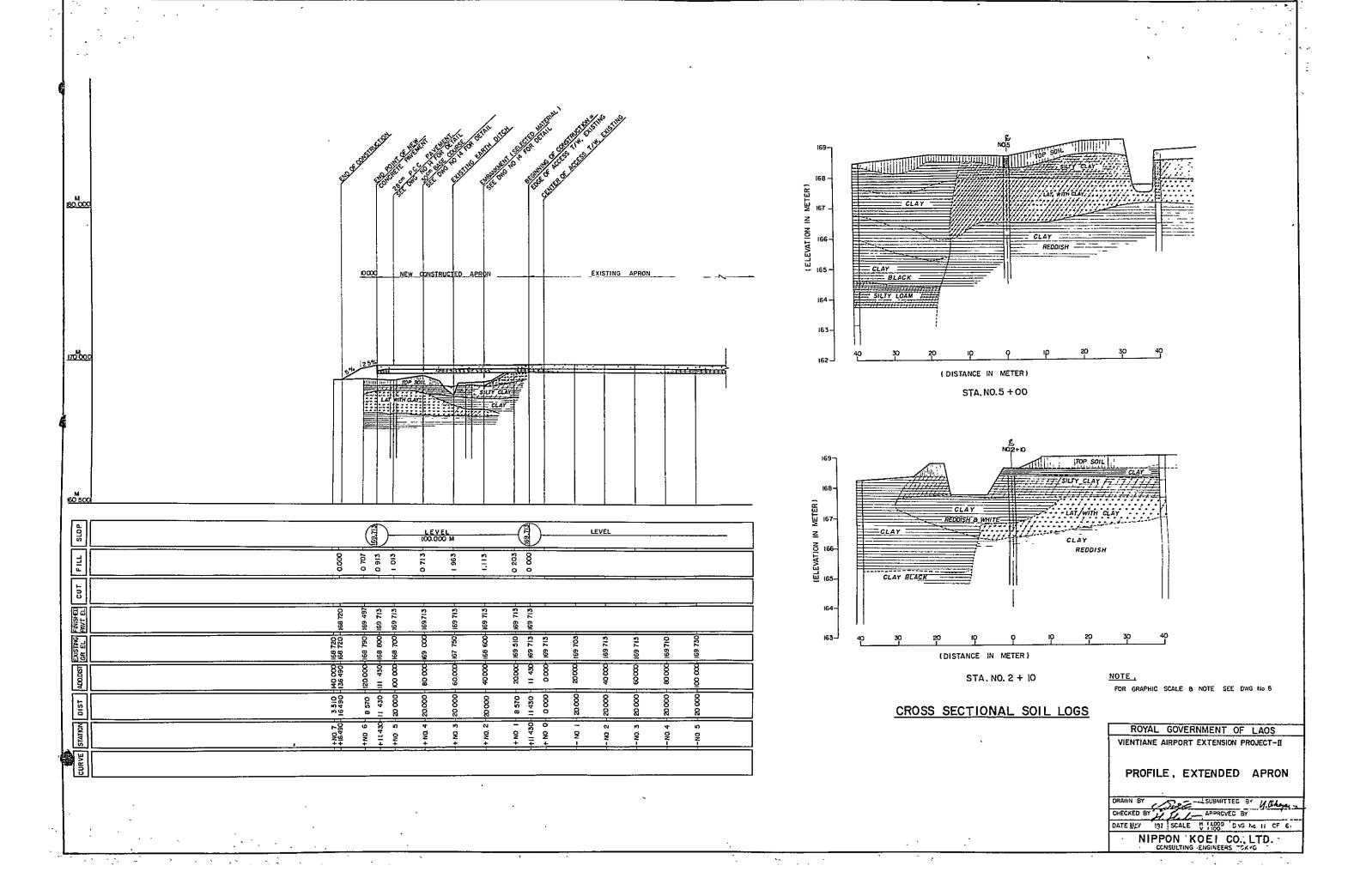


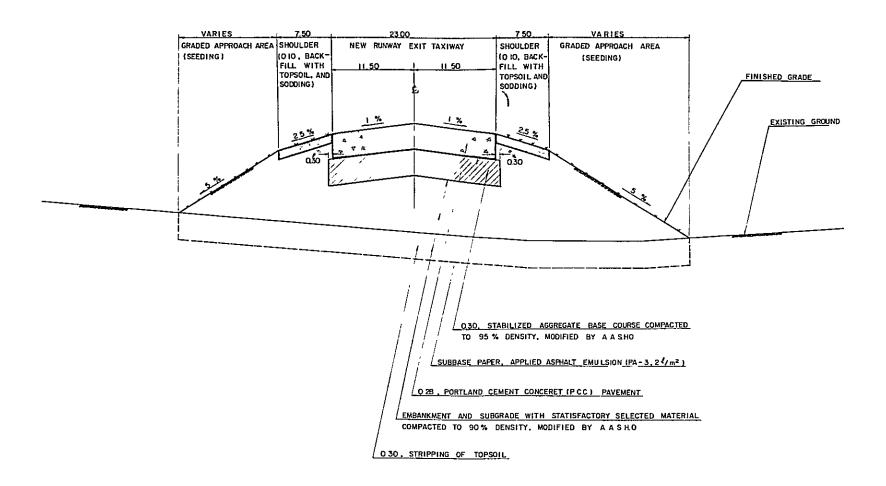






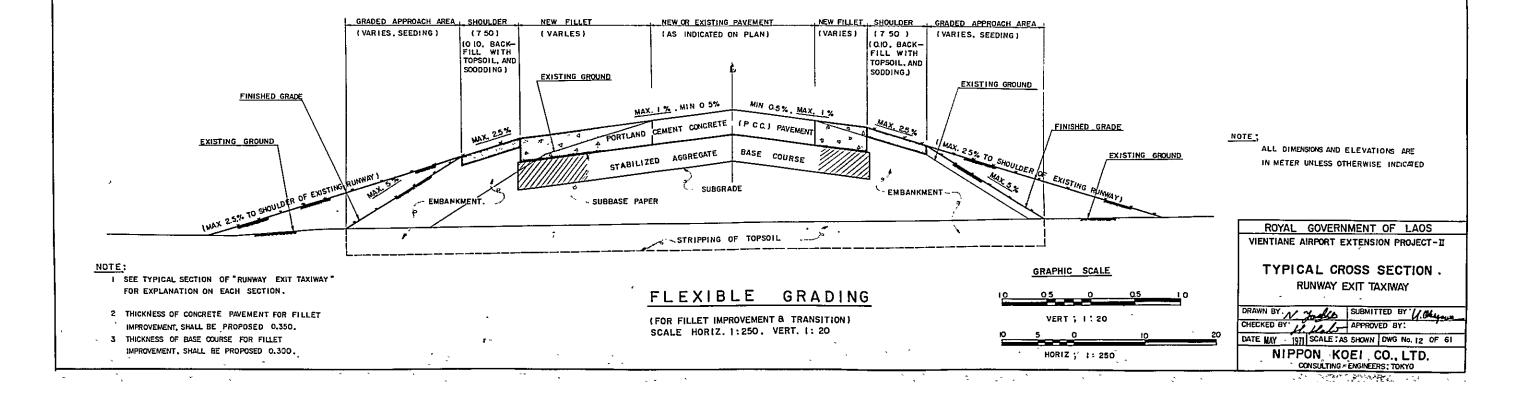


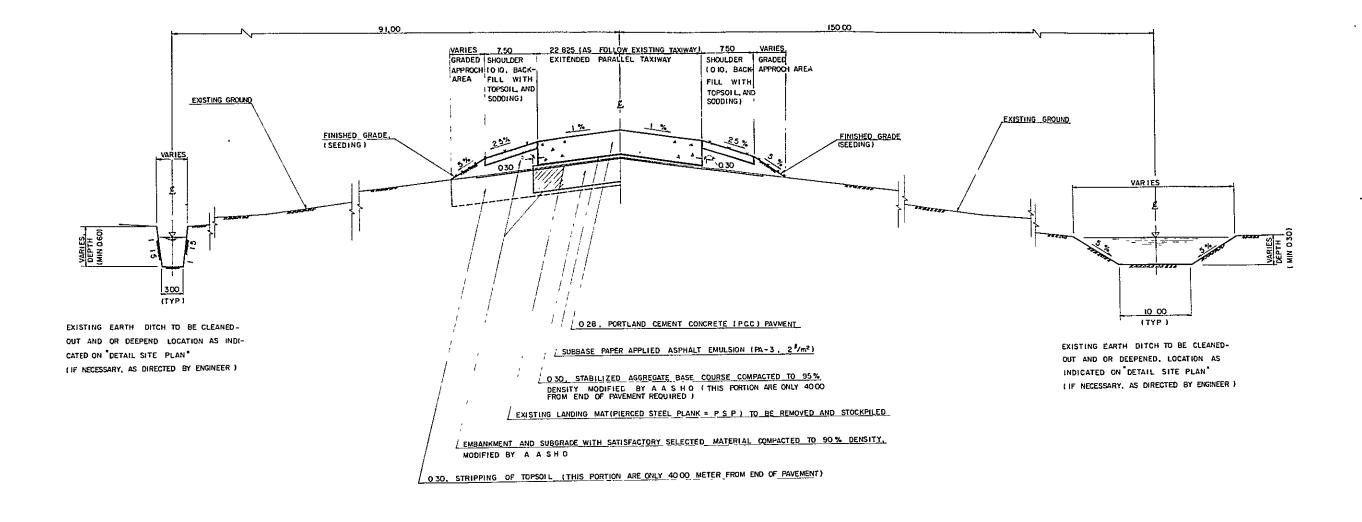




RUNWAY EXIT TAXIWAY NO. 1 & NO. 3

SCALE HORIZ | 250, VERT | 20



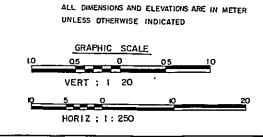


EXTENDED PARALLEL TAXIWAY

SCALE HORIZ | 250 , VERT | 20

NOTE, FOR ECONOMICAL CONSTRUCTION, SEE NOTES AS FOLLOWINGS,

- BASE COURSE . 400 00 METERS FROM BEGINNING POINT OF TXIWAY EXTENSION, ITS WILL BE DELETED BASE COURSE MATERIAL ON ALL REQUIREMENT EXCEPT COMPACTION
- STRIPPING OF TOPSOIL , 400.00 METERS AS SAME LENGTH OF SAVED BASE COURSE, ITS WILL BE DELETED



NOTE;

ROYAL GOVERNMENT OF LAOS
VIENTIANE AIRPORT EXTENSION PROJECT-II

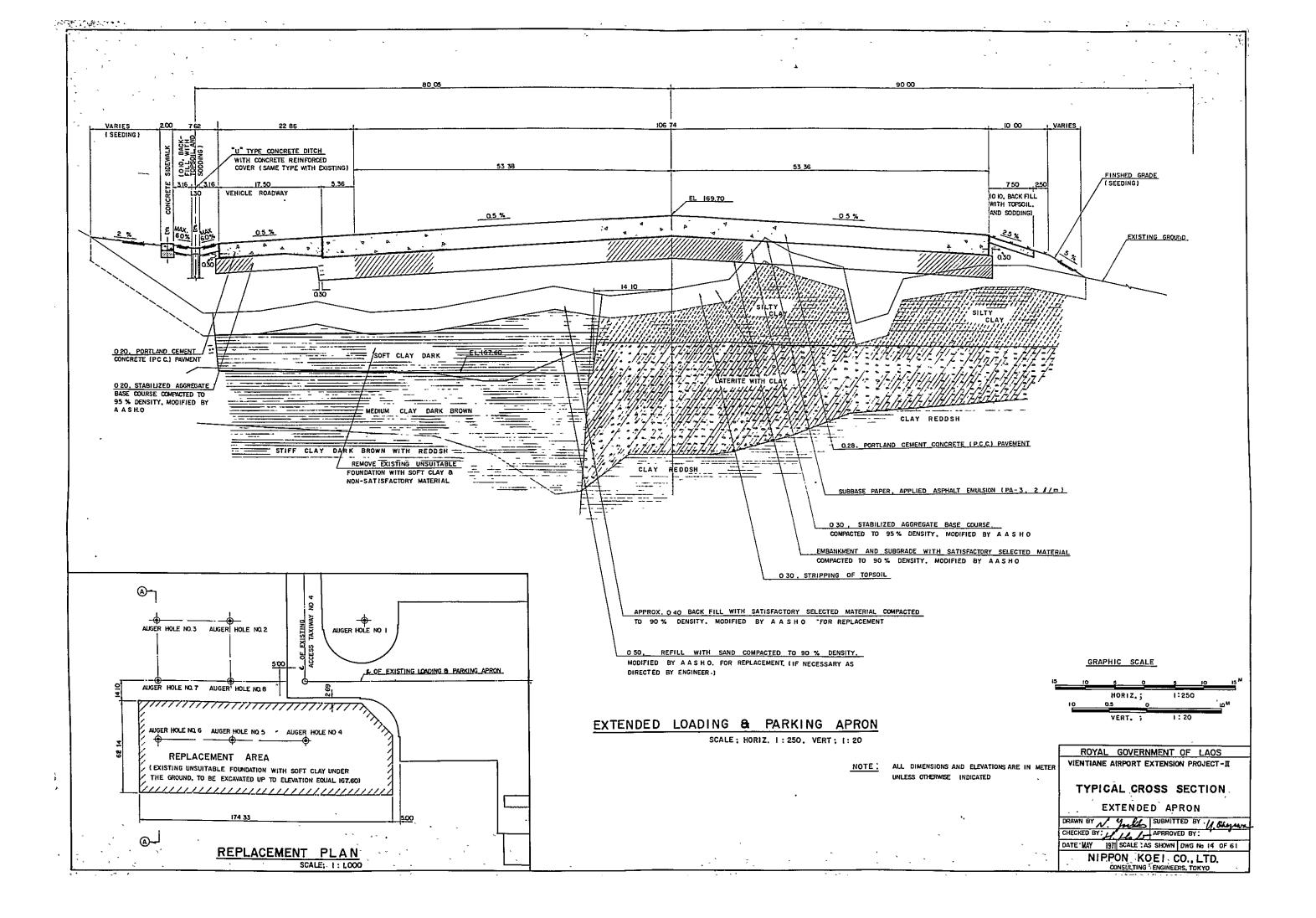
TYPICAL CROSS SECTION
EXTENDED PARALLEL TAXIWAY

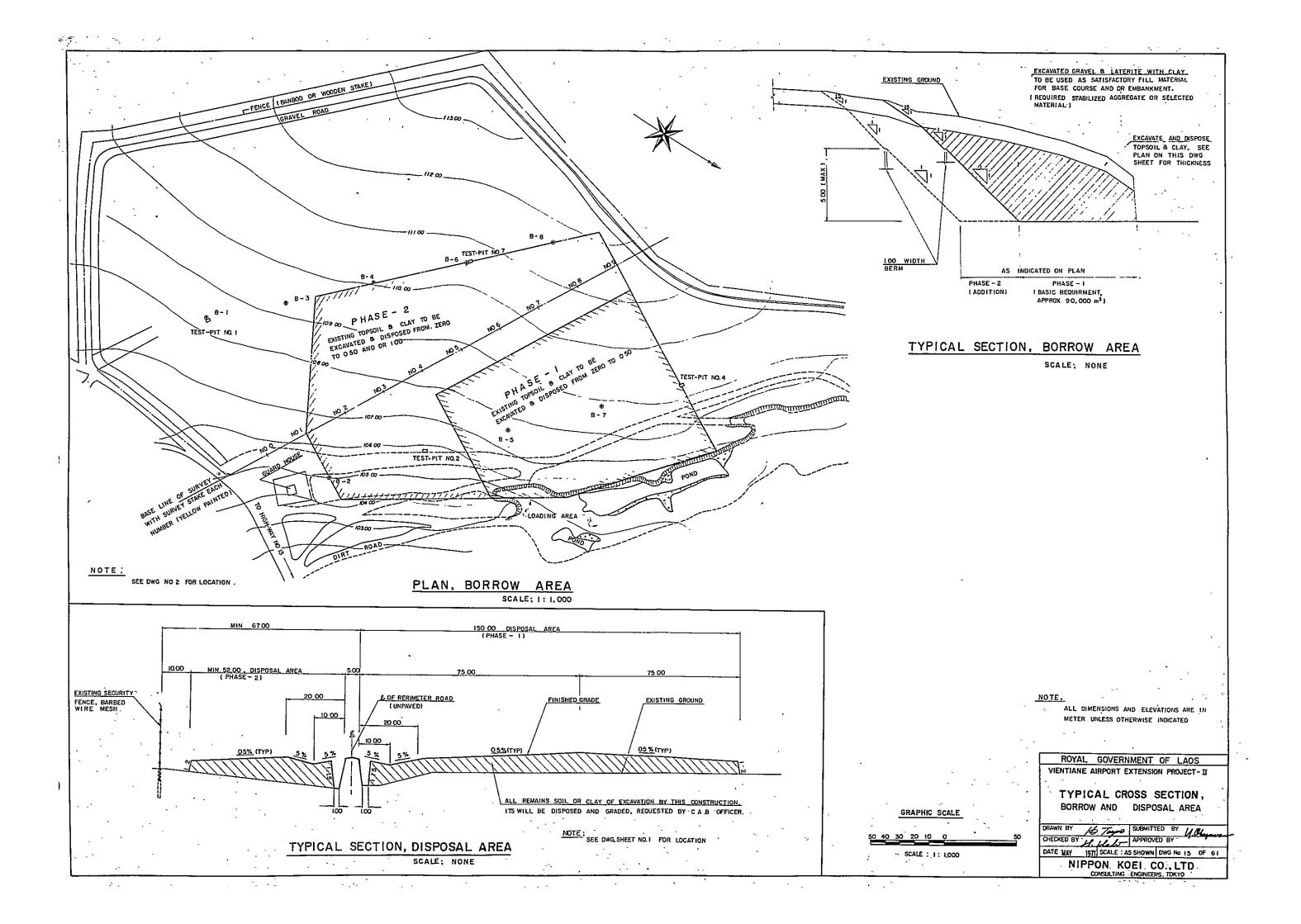
DRAWN BY: N. MALL SUBMITTED BY / Chapter CHECKED BY:

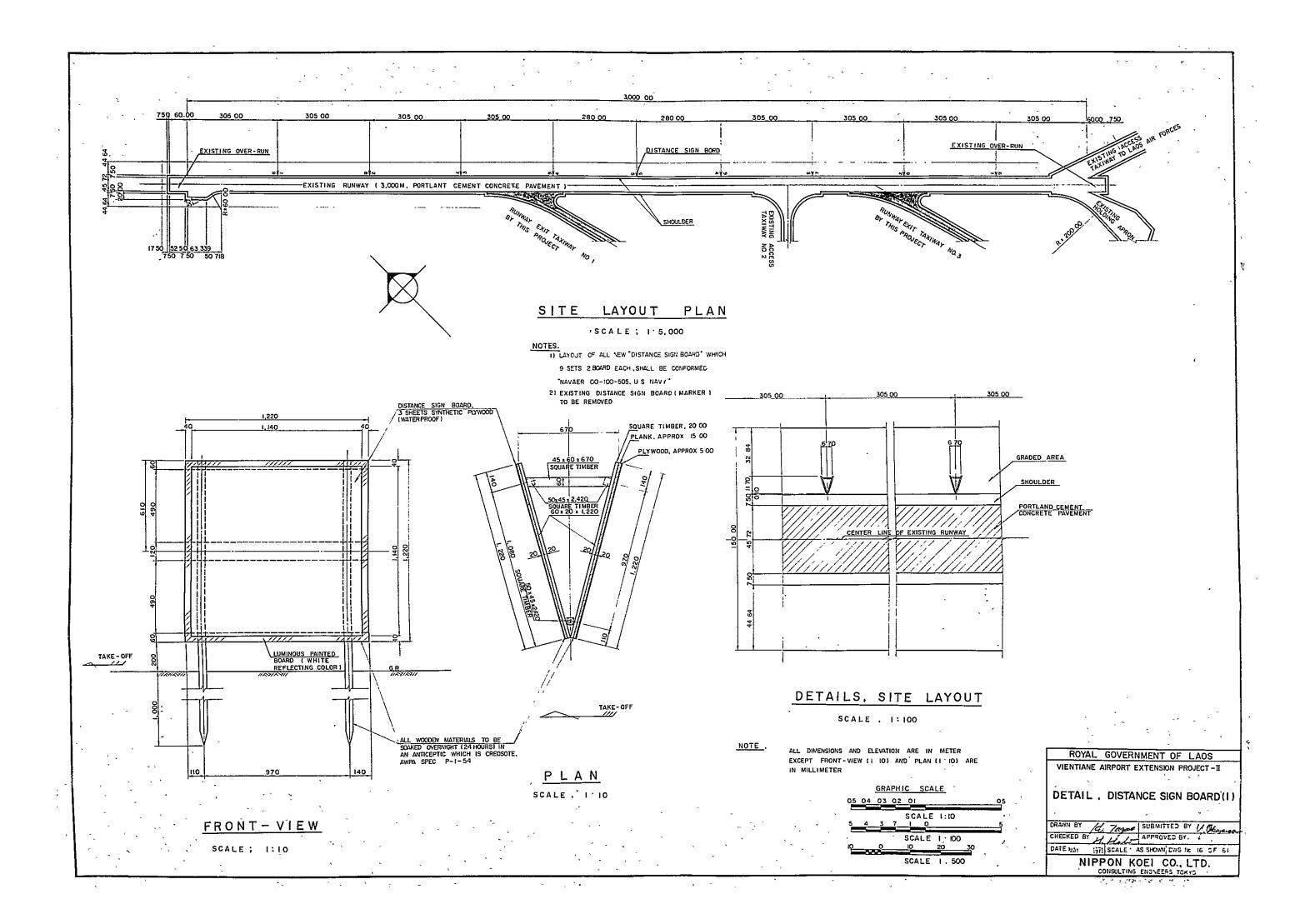
DATE MAY 1971 SCALE AS SHOWN DWG No 13 OF 61

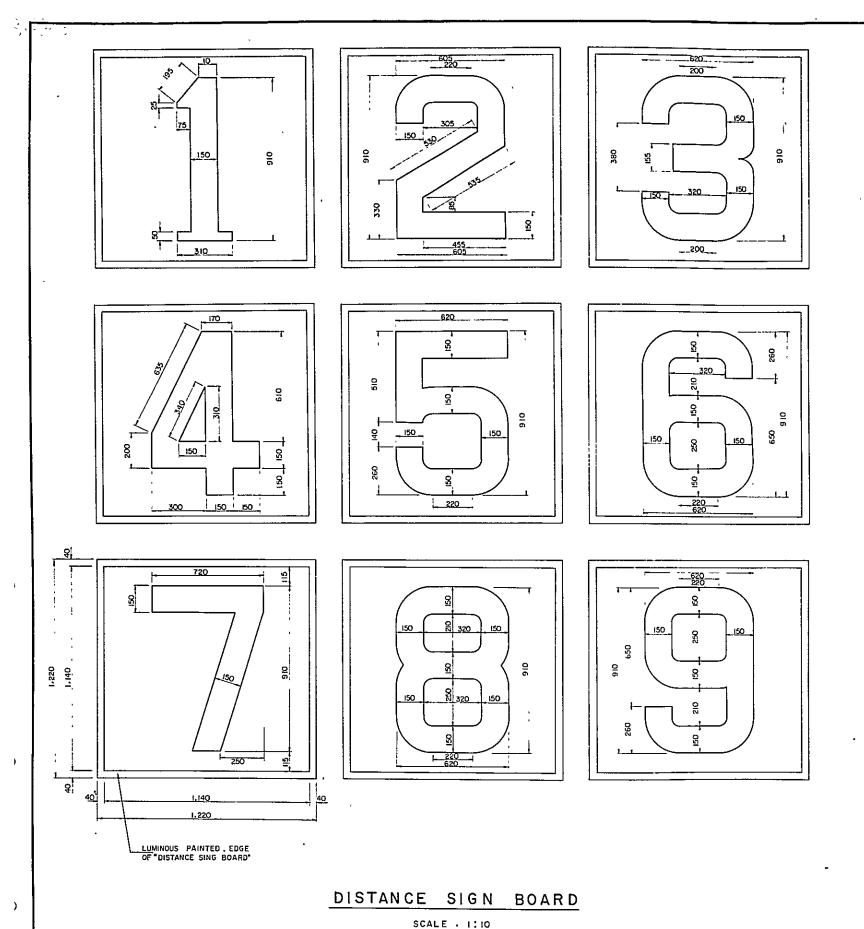
NIPPON KOE! CO., LTD.

CONSULTING ENGINEERS, TOKYO









NOTE : ALL DIMENSIONS ARE IN MILLIMETER

GRAPHIC SCALE 0<u>5 04 03 02 01 0</u>

SCALE 1 · 10

CHECKED BY ... SUBMITTED BY Y. CREATER APPROVED BY

DATE MAY 1971 SCALE. AS SHOWN DWG No 17 OF 61

ROYAL GOVERNMENT OF LAOS VIENTIANE AIRPORT EXTENSION PROJECT-II

DETAIL, DISTANCE SIGN BOARD (2)

NIPPON 'KOE! CO., LTD. a love of the state of the second

NOTE :

ALL COLOR SHALL BE USED WITH REFLECTORIZED PAINT, AND SHALL BE WHITE ON NUMBER . INTERNATIONAL GRANGE (NO 506) ON BOARD

CONCRETE SIDEWALK

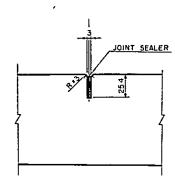
JOINT SEALER

EXPANSION JOINT SCALE 1:2

PROVIDE EXPANSION JOINTS AT INTERVALS OF 30,000 STRAIGHT PORTIONS, AT ALL RETURNS OF WALK AND WHERE WALKS ABUT OTHER CONCRETE STRUCTURES.

7.7°. 3°C +

CONTRACTION JOINT SCALE 1 2



TRANSVERSE CONTRACTION JOINTS SHALL
BE SO SPACED THAT THE RATIO OF SLAB
LENGTH TO WIDTH WILL NOT EXCEED 1 25,
SHALL BE PROVIDED SLAB SIZE ARE
2,000 x 2,500

EXPANSION JOINT

CONTRACTION JOINT

EXPANSION

SECTION "A - A" SCALE VERT 1 100

NEW EDGE OF CONNECTED ACCESS ROAD (UN PAVEO)

EDGE OF EXISTING ACCESS

ACCESS ROAD (UNPAVED)

EXTENDED ROAD, SATISFACTORY

SELECTED MATERIAL COMPACTED
TO 95% DENSITY, MODIFIED BY A A S H O

ROAD (UNPAVED)

EXTENDED APRON

VEHICLE ENTRANCE, PLAN SCALE 1:400

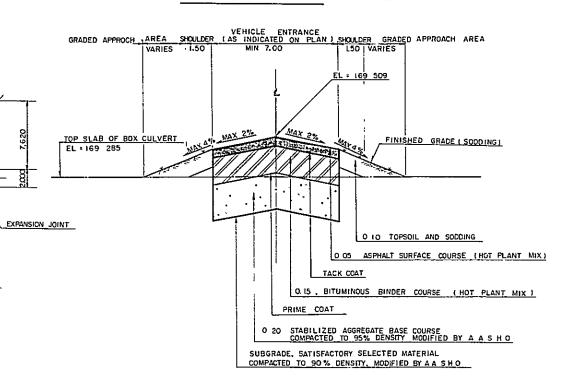
400 700 400

EL =169, 319

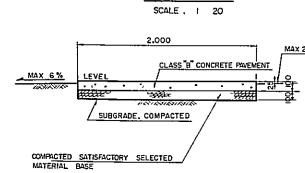
\EL = 169 509 \EL = 169 160

ROAD EDGE

GRADE TO MEET EXTENDED



DETAIL "A"

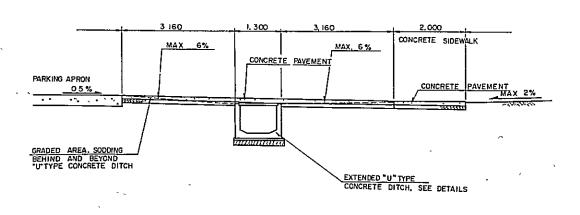


JOINT PLAN SCALE 1:200

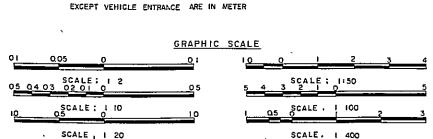
EXTENDED LOADING AND PARKING APRON

,2 500 ,2 500,2,500 t

CROSS SECTION " H-H" SCALE 1.50



NOTE: ALL DIMENSIONS AND ELEVATIONS ARE IN MILLIMETER



ROYAL GOVERNMENT OF LAOS
VIENTIANE AIRPORT EXTENSION PROJECT-II

EXTENDED "U" TYPE CONS DITCH

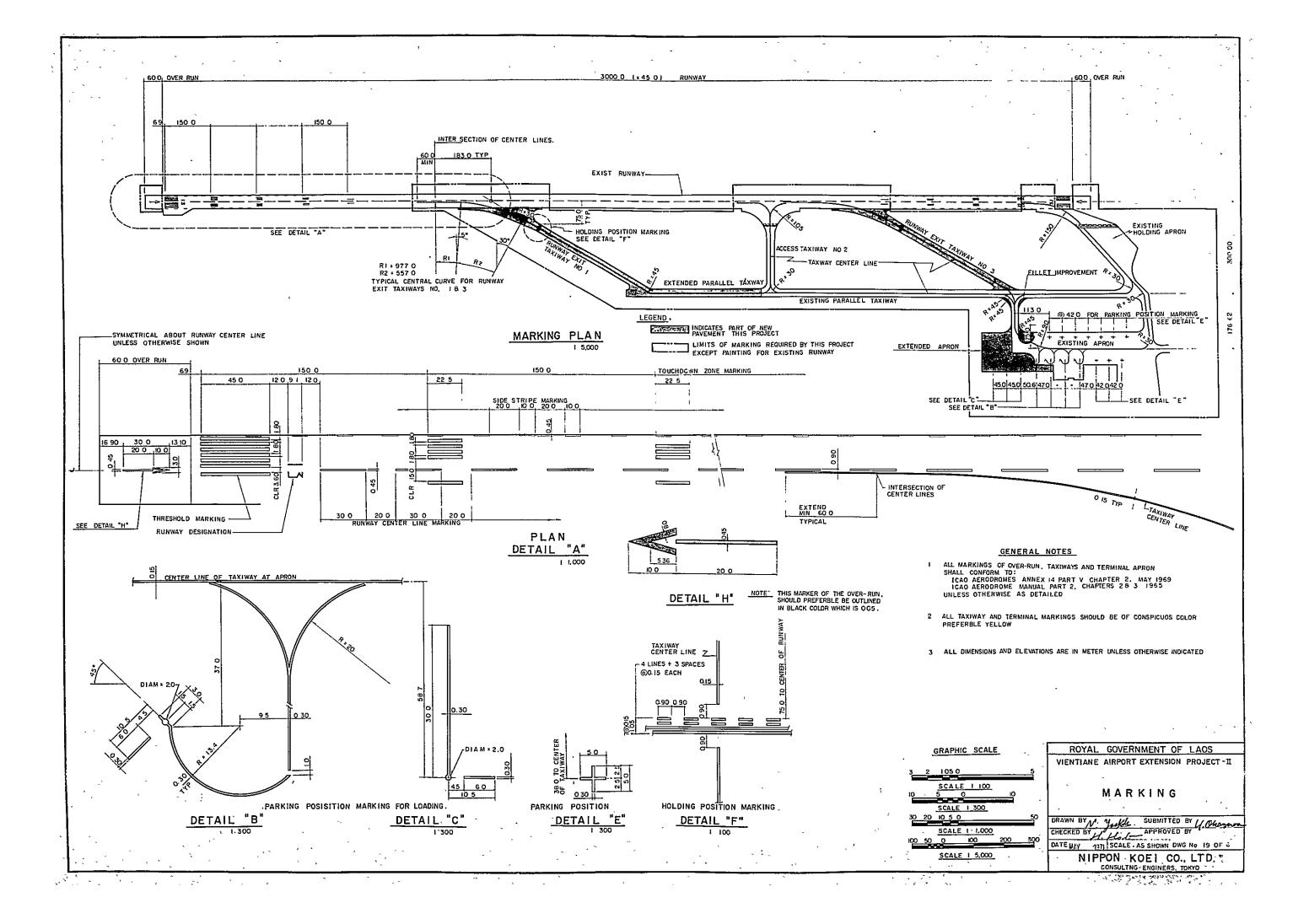
WITH CONG REINFORCED COVER

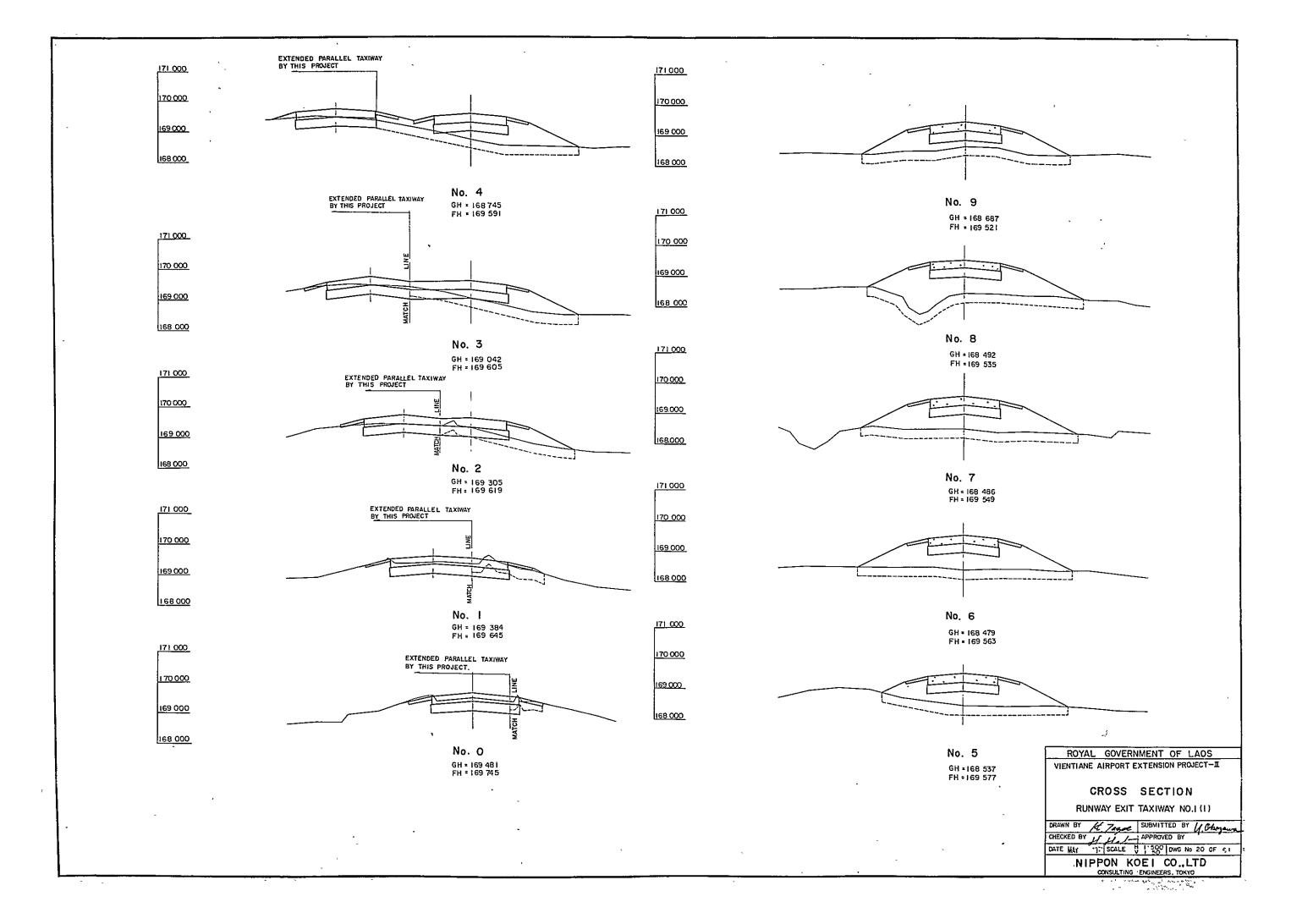
CIVIL MISCELLANEOUS DETAIL

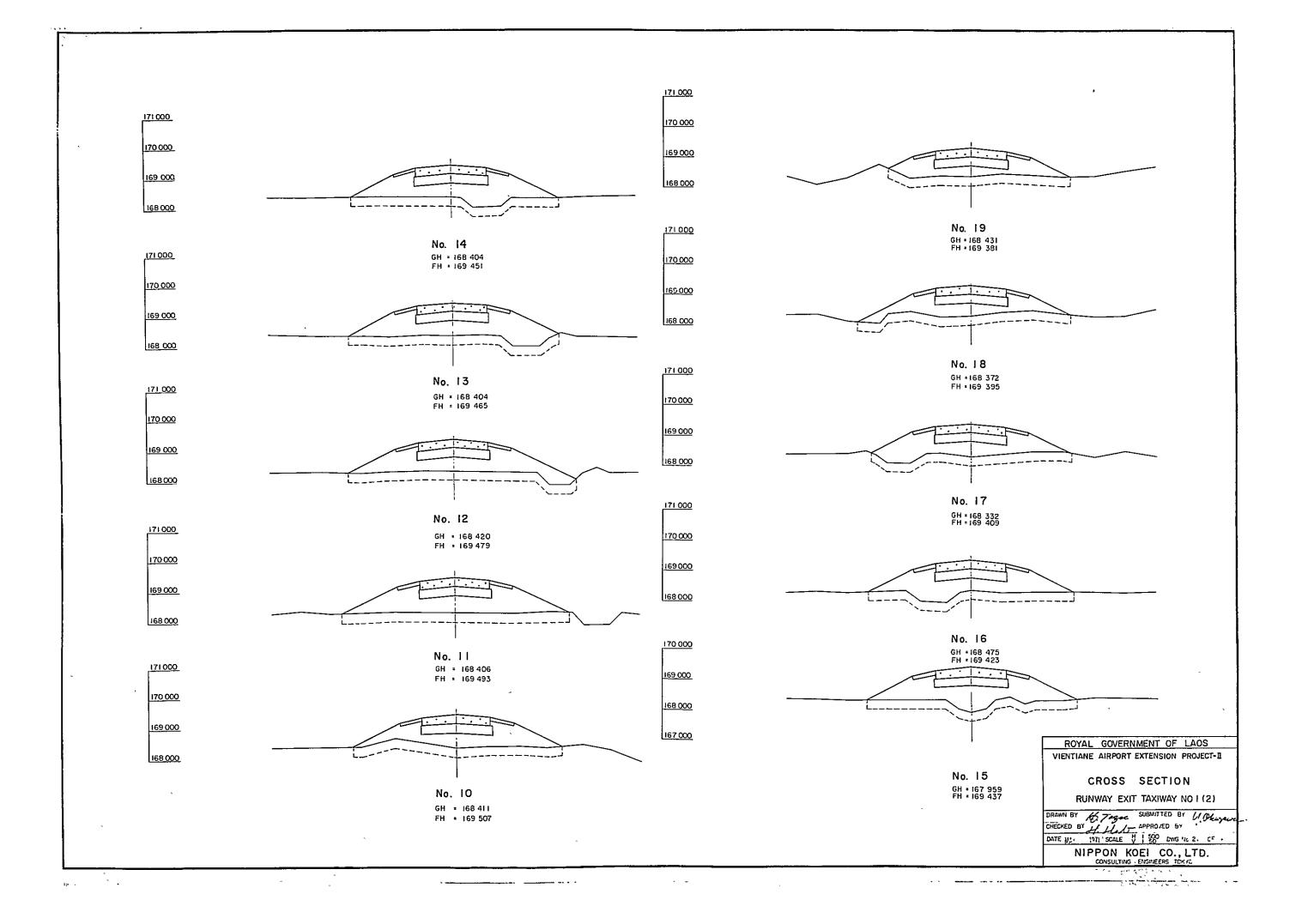
CHECKED BY J. John SUBMITTED BY M. Chagewer CHECKED BY J. Hold APPROVED BY DATE WAY 1571 SCALE AS SHOWN, DWG No 18 OF 5

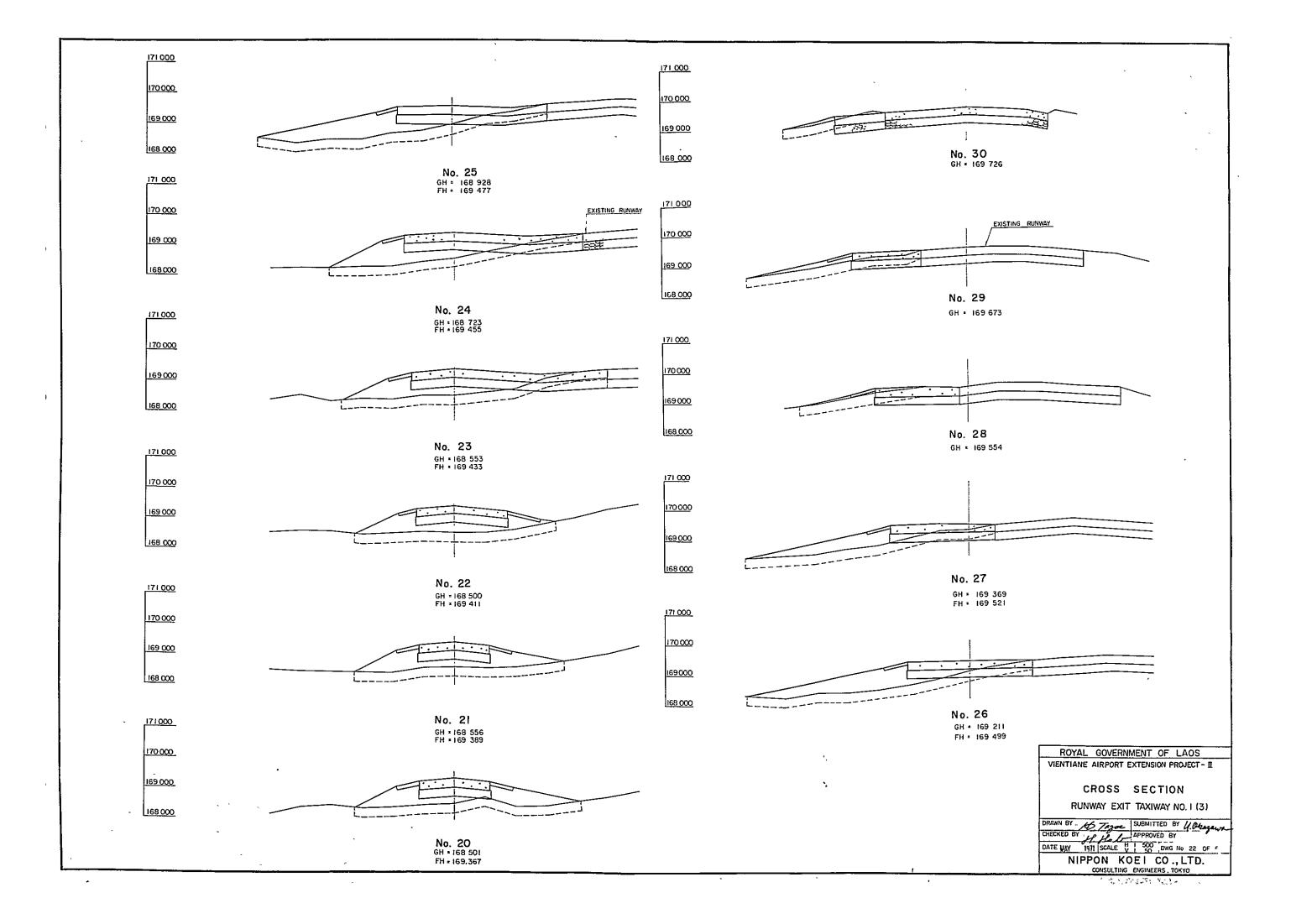
NIPPON KOEL CO., LTD.

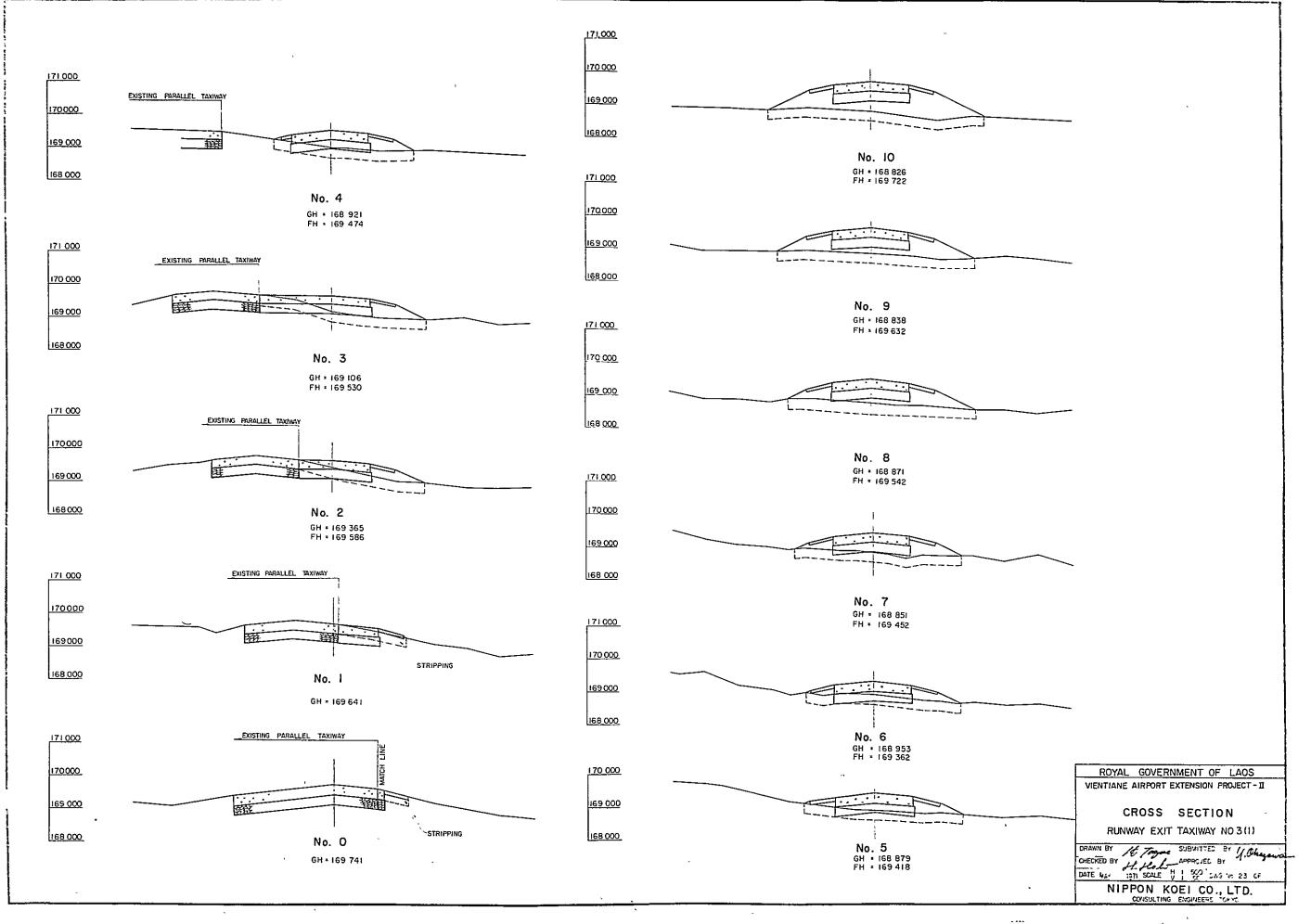
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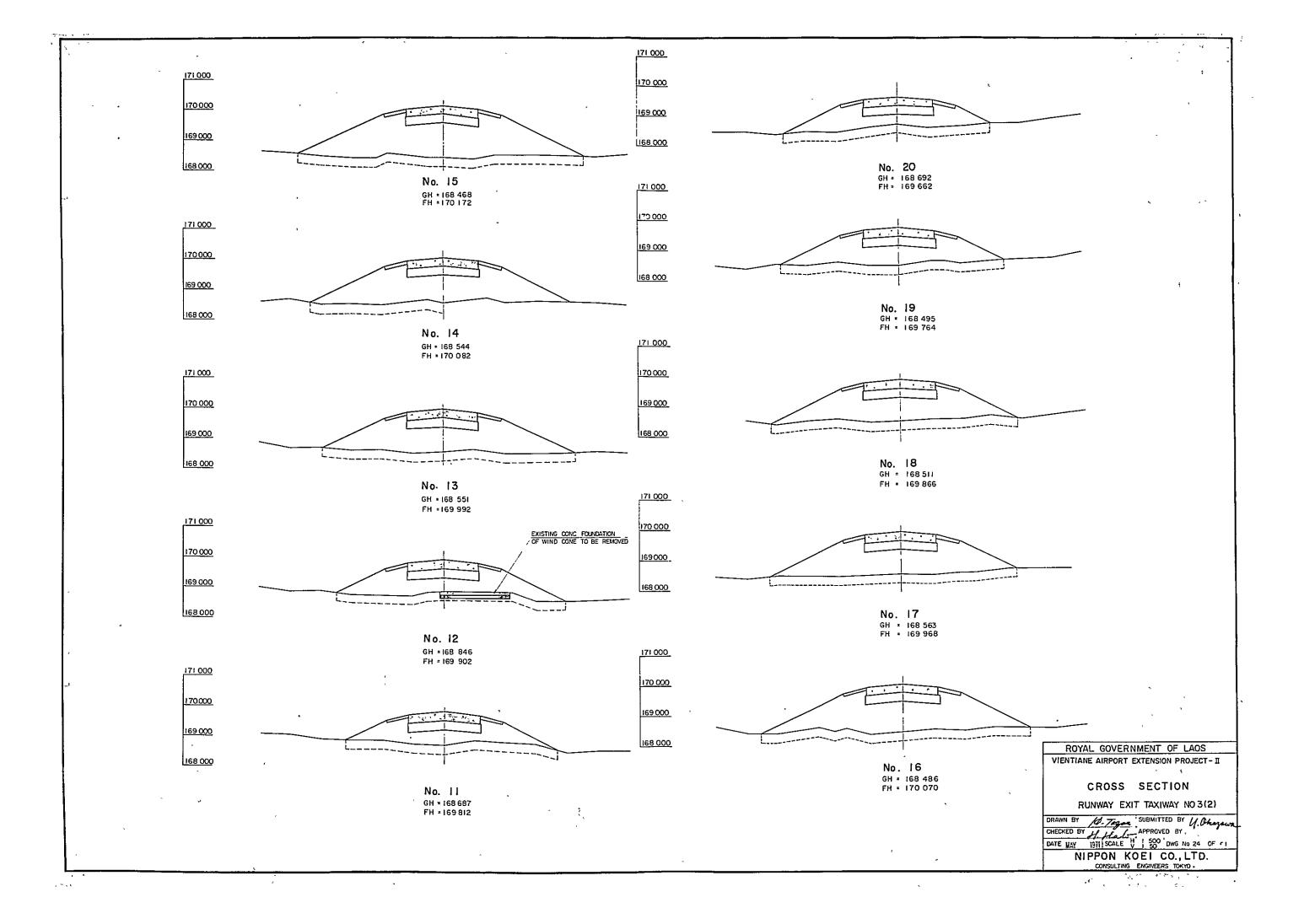


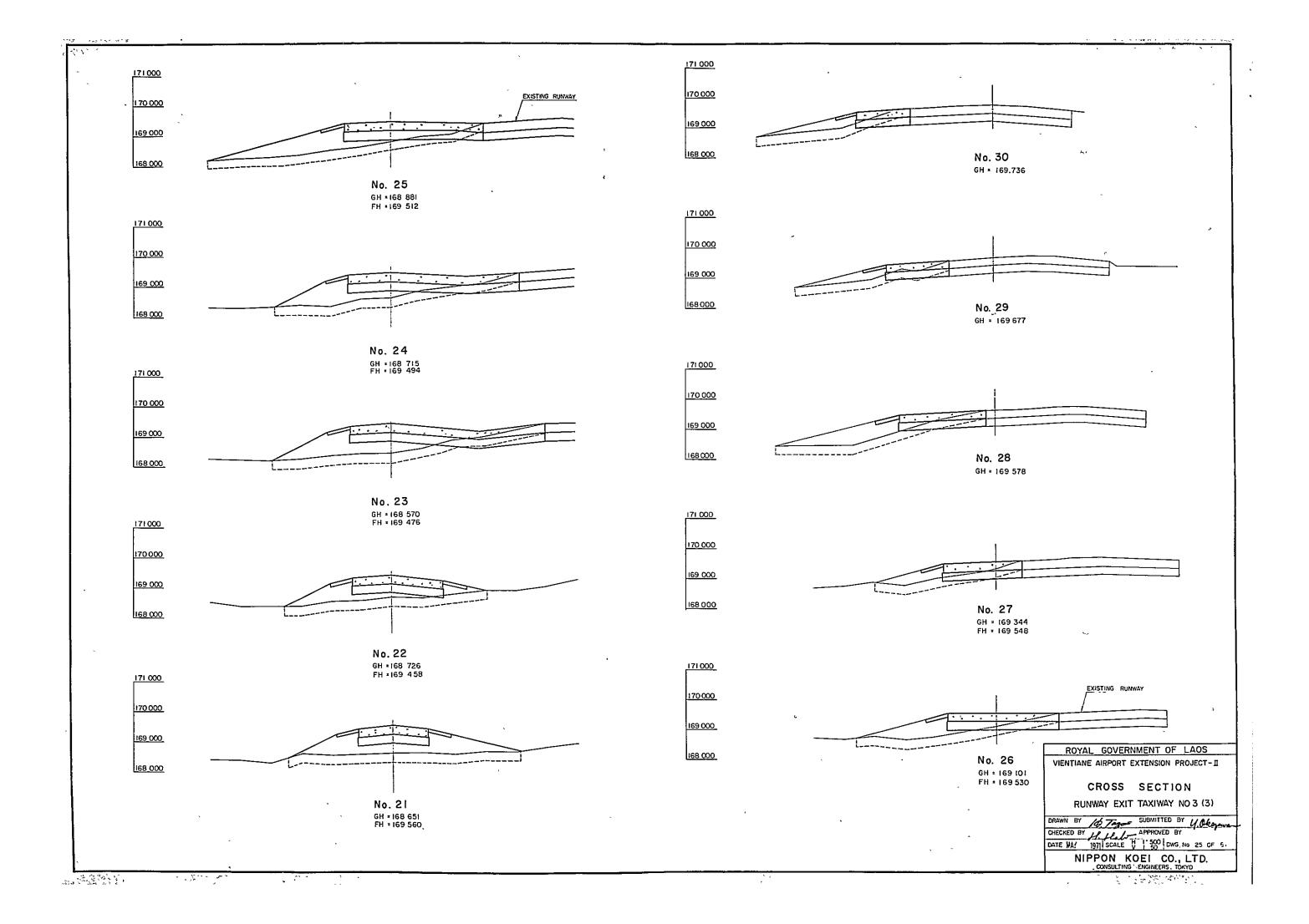


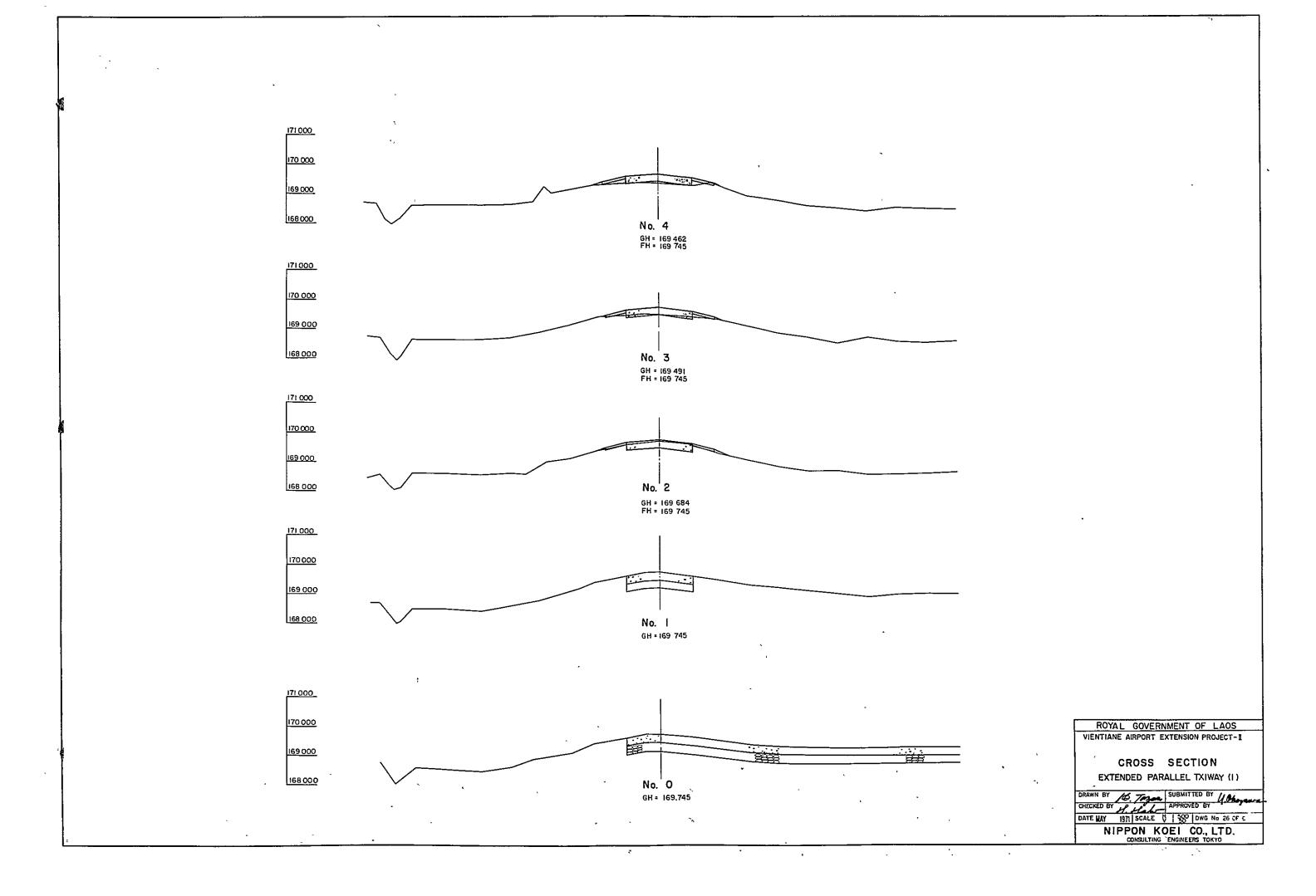


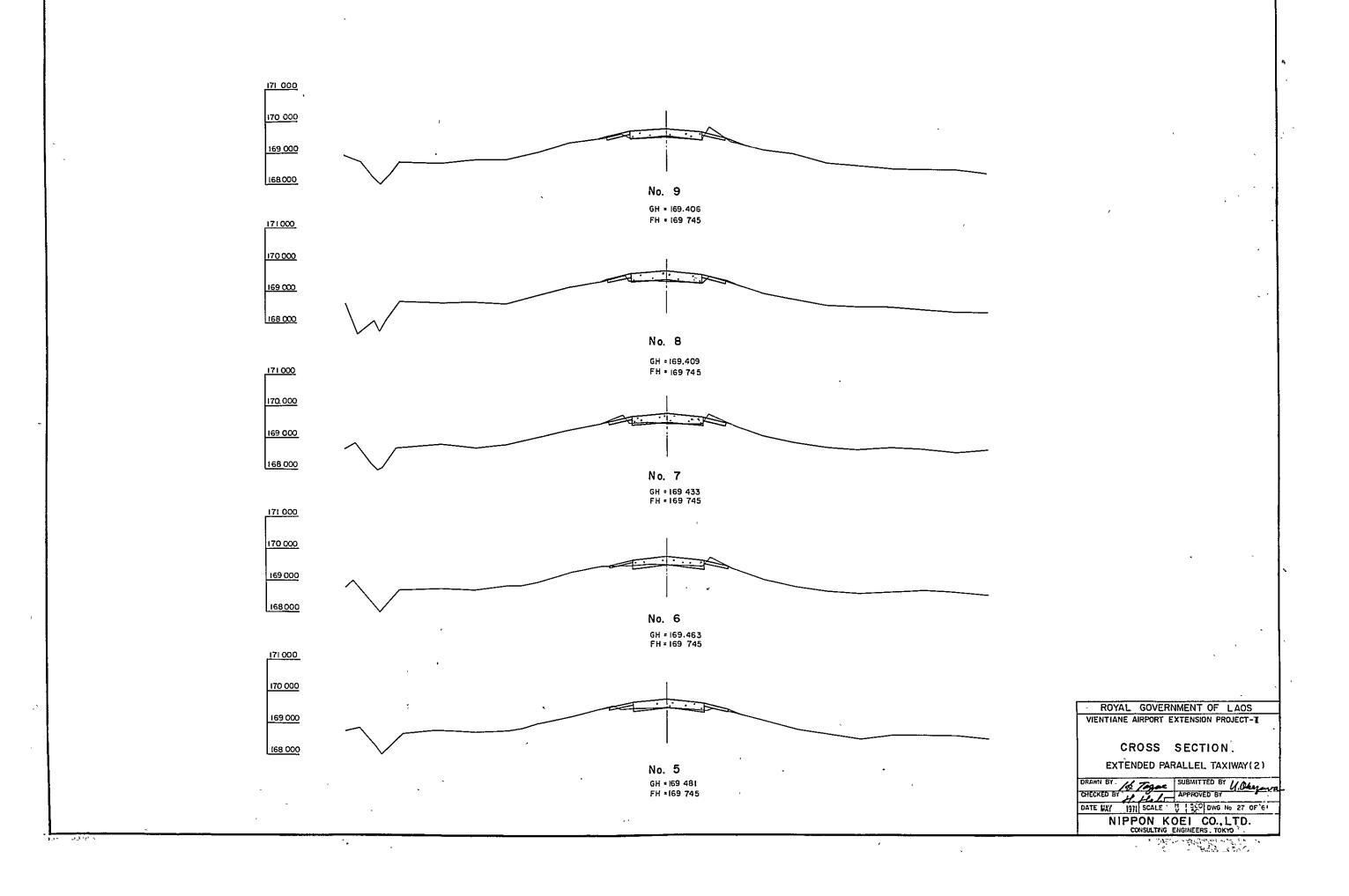


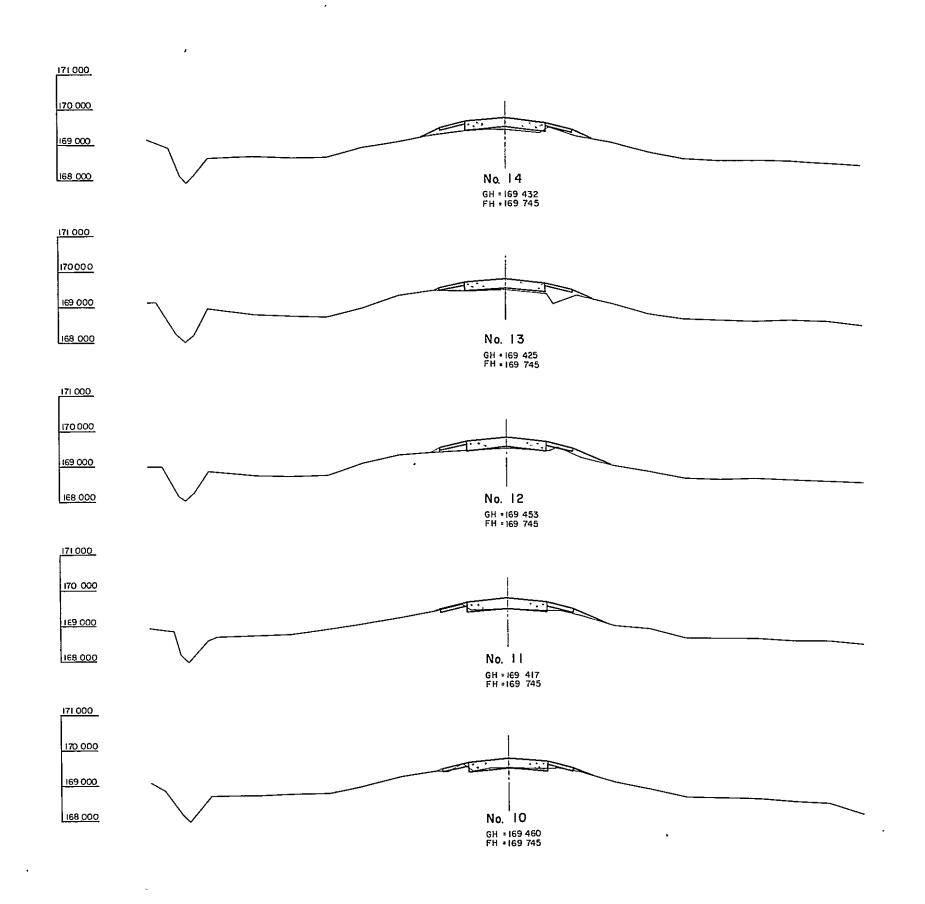
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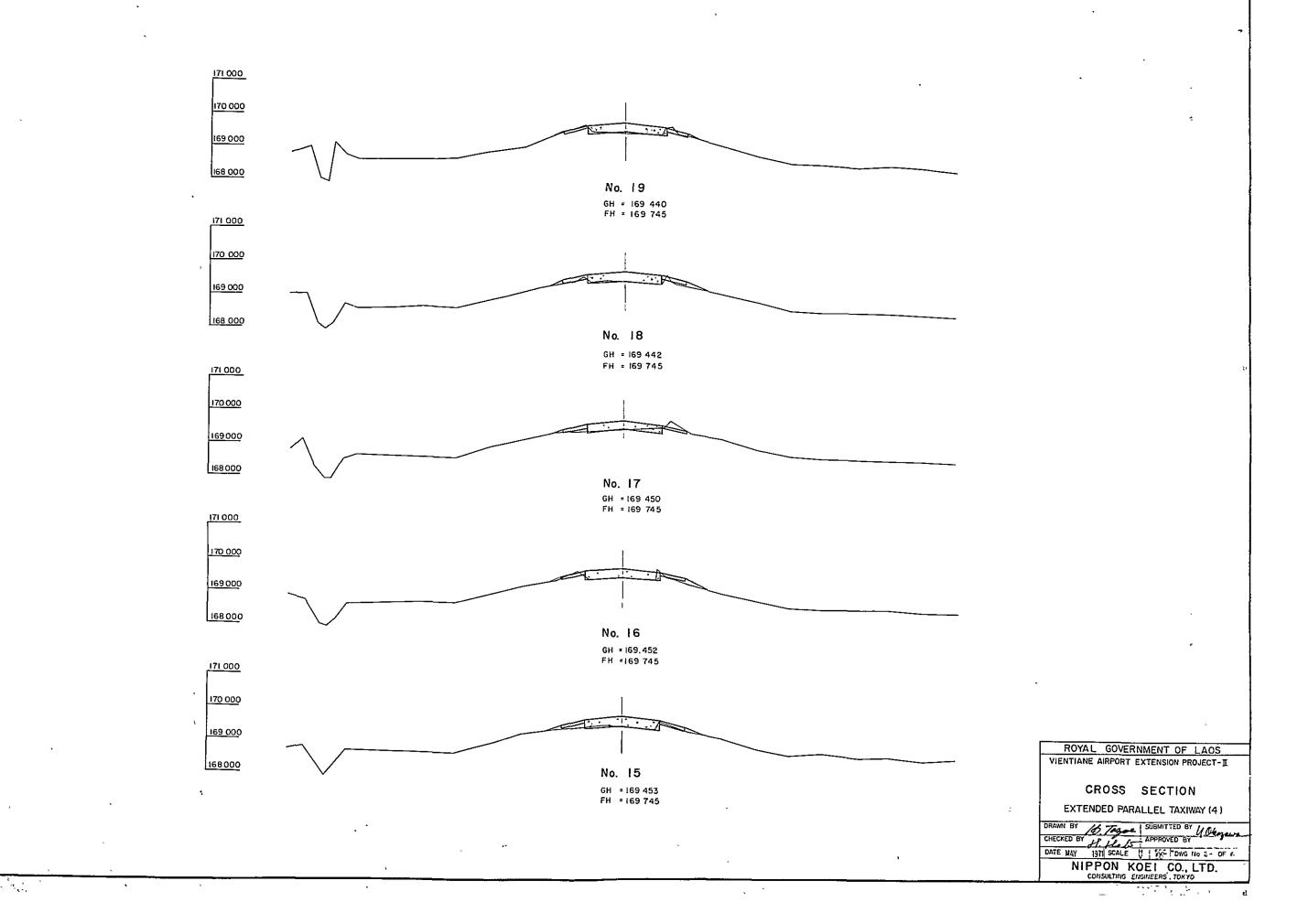


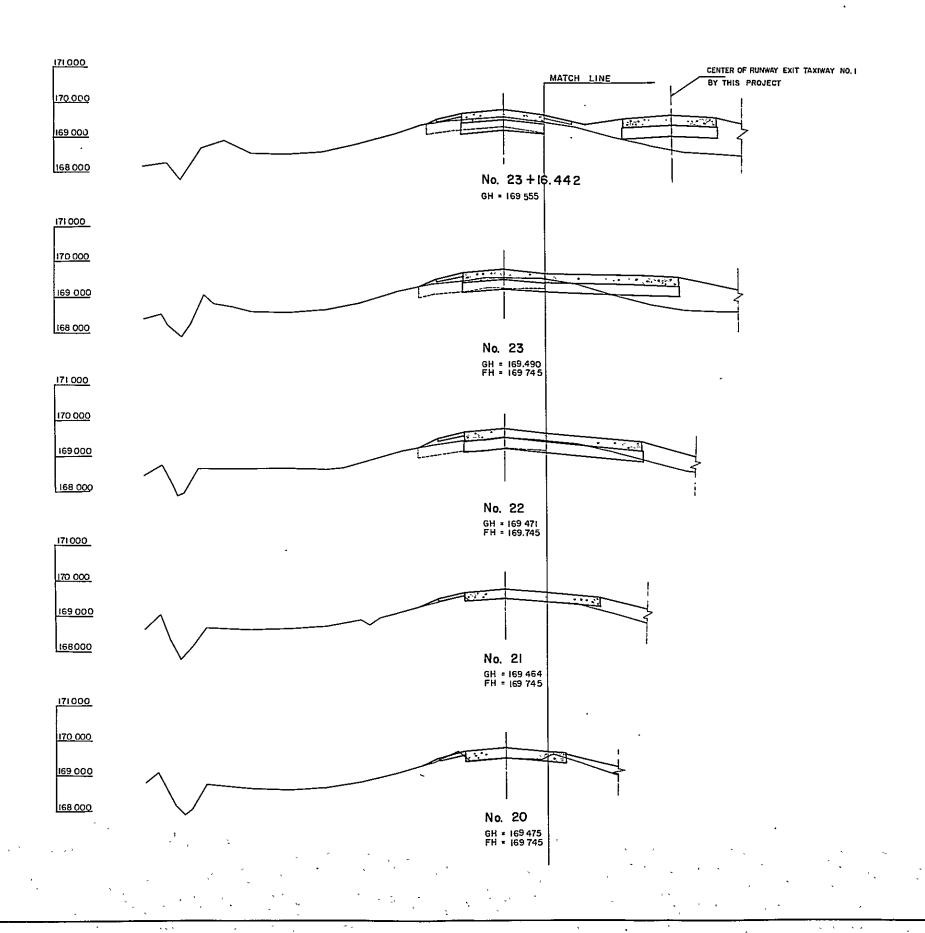


ROYAL GOVERNMENT OF LAGS VIENTIANE AIRPORT EXTENSION PROJECT-I

CROSS SECTION EXTENDED PARALLEL TAXIWAY (3)

DRAWN BY SUBMITTED BY LORAGEN CHECKED BY H. Jajan APPROVED BY DATE MAY 1971 SCALE 1 80 DMG 16 EE OF STREET OF STREET





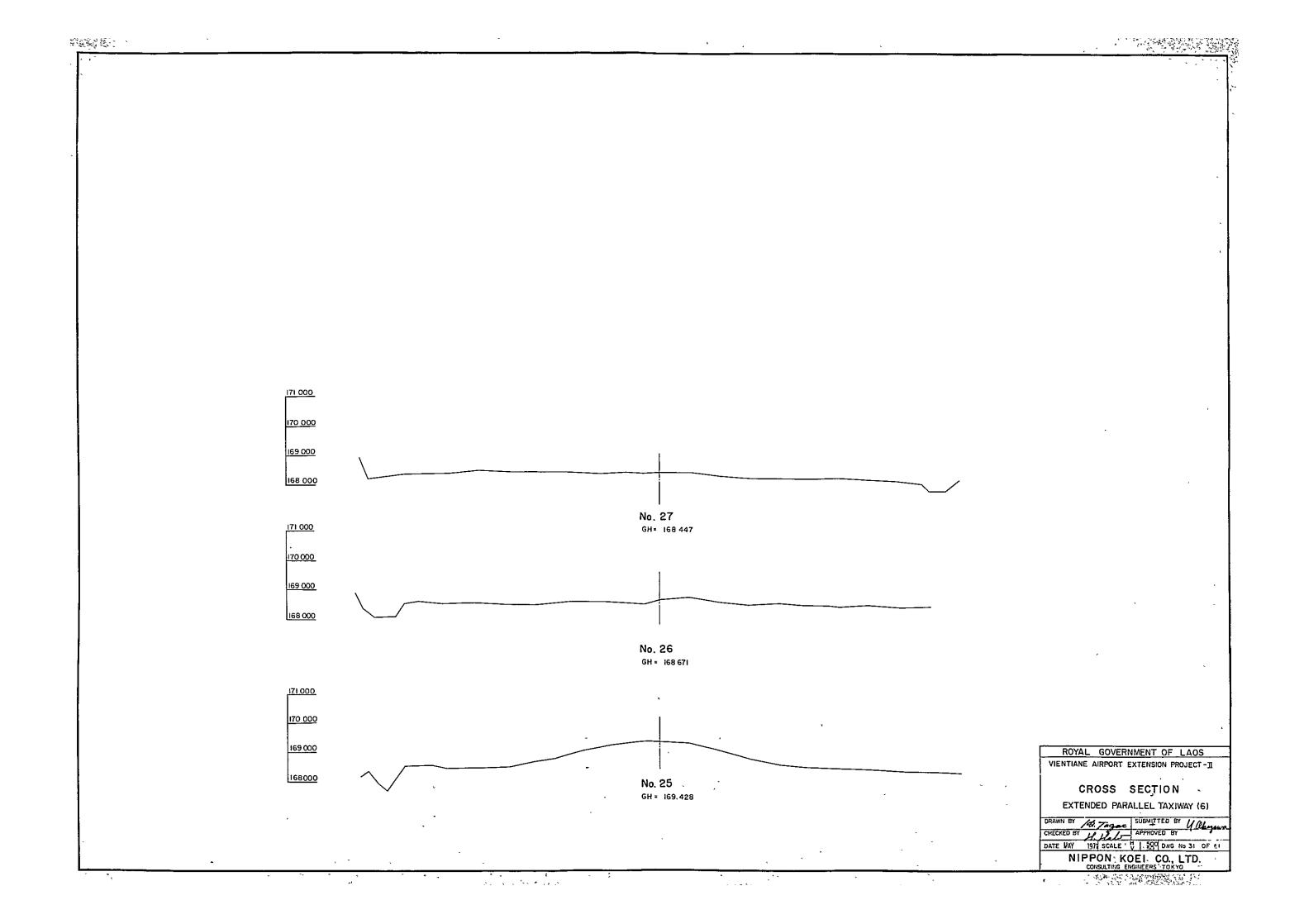
ROYAL GOVERNMENT OF LAGS VIENTIANE AIPPORT EXTENSION PROJECT-I

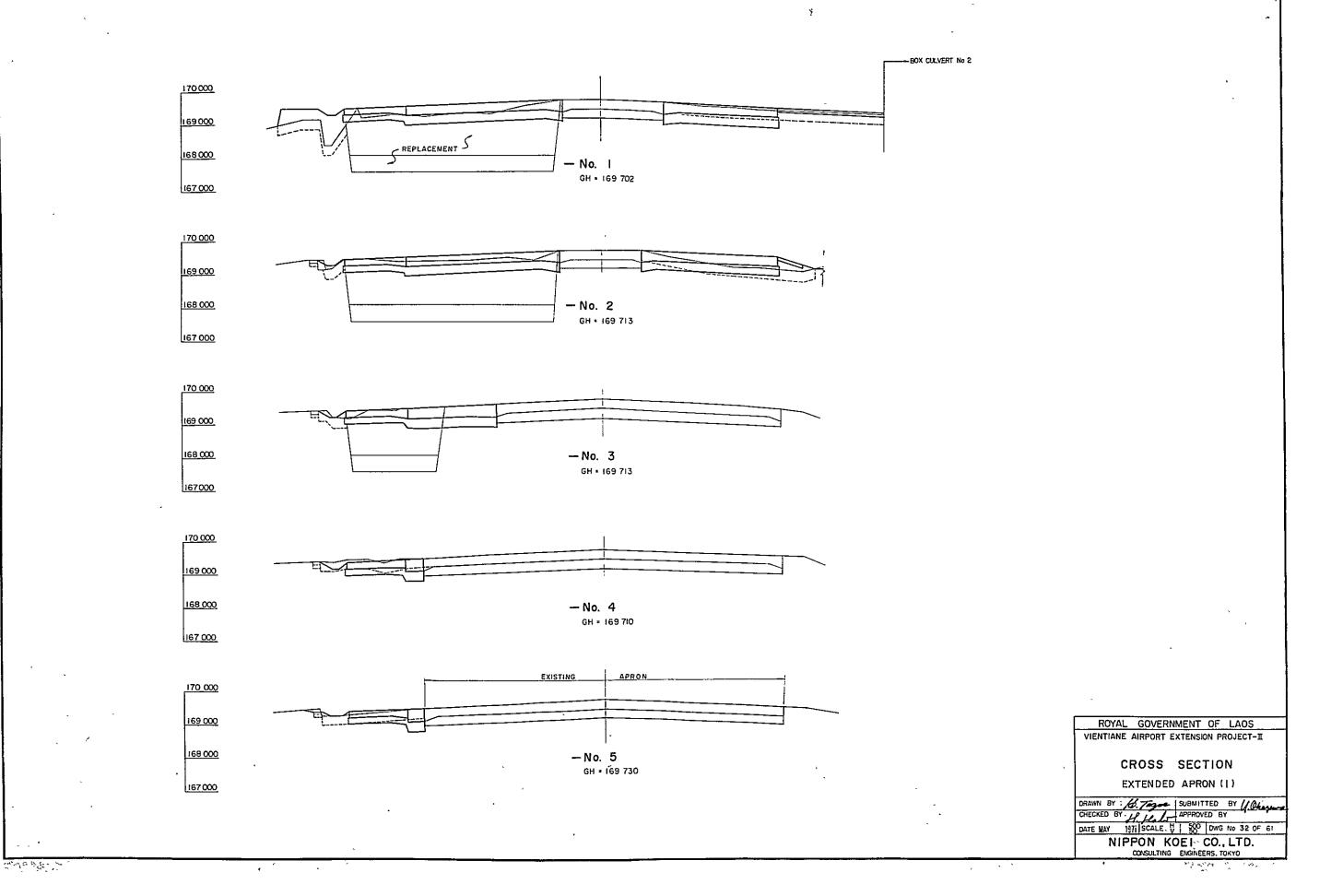
CROSS SECTION,

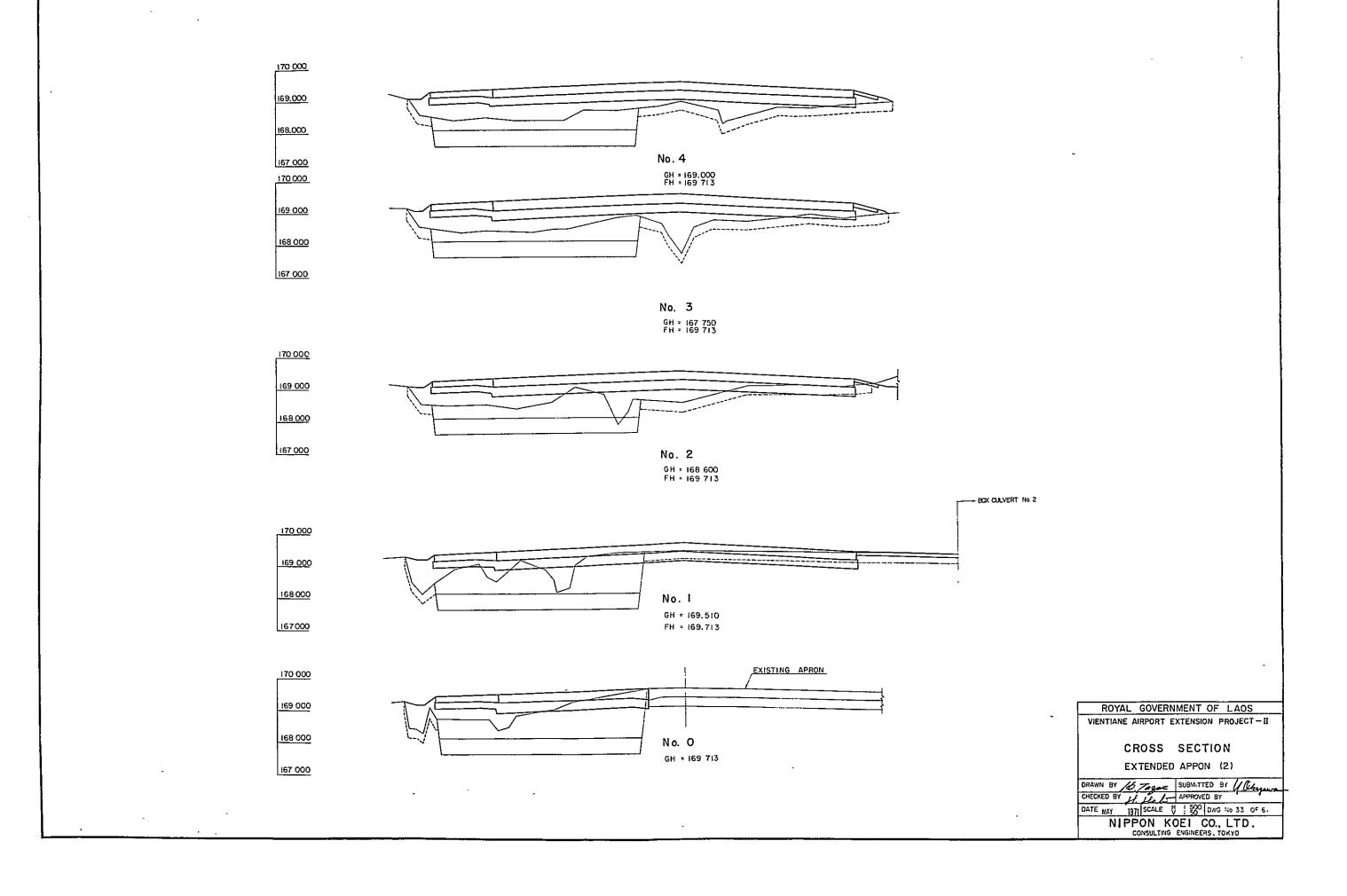
EXTENDED PARALLEL TAXIWAY (5)

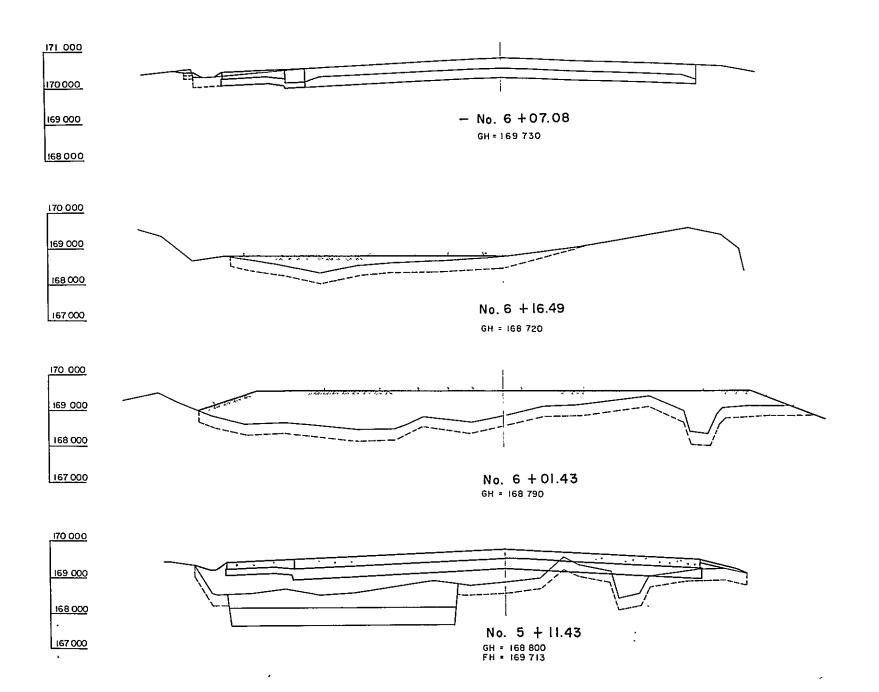
CHECKED BY 1971 SCALE U 1 80 DWG No 30 OF 6

NIPPON KOEL CO., LTD.







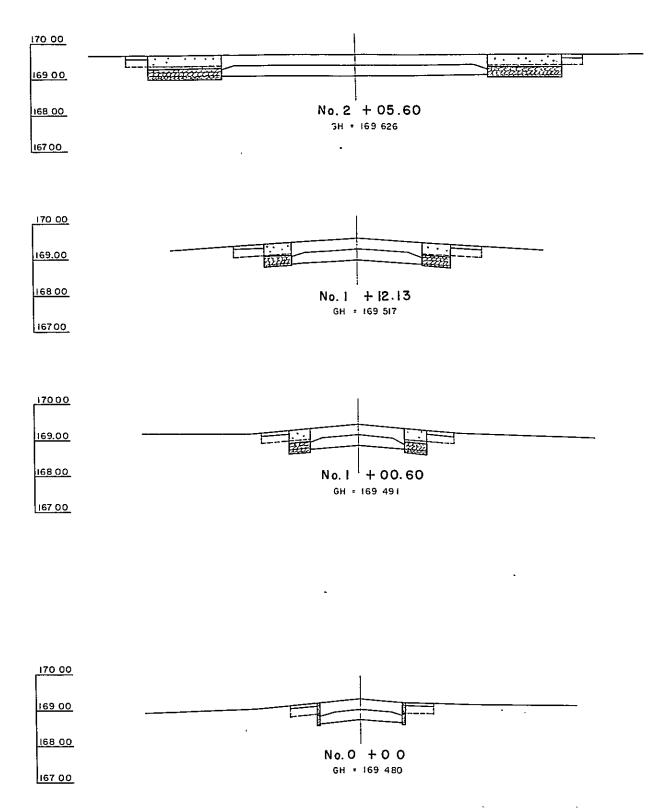


ROYAL GOVERNMENT OF LAGS
VIENTIANE AIRPORT EXTENSION PROJECT-II

CROSS SECTION
EXTENDED APRON (3)

CHECKED BY H. IST SCALE. U SOO , DWG No 34 CF 61

NIPPON KOEI CO., LTD.



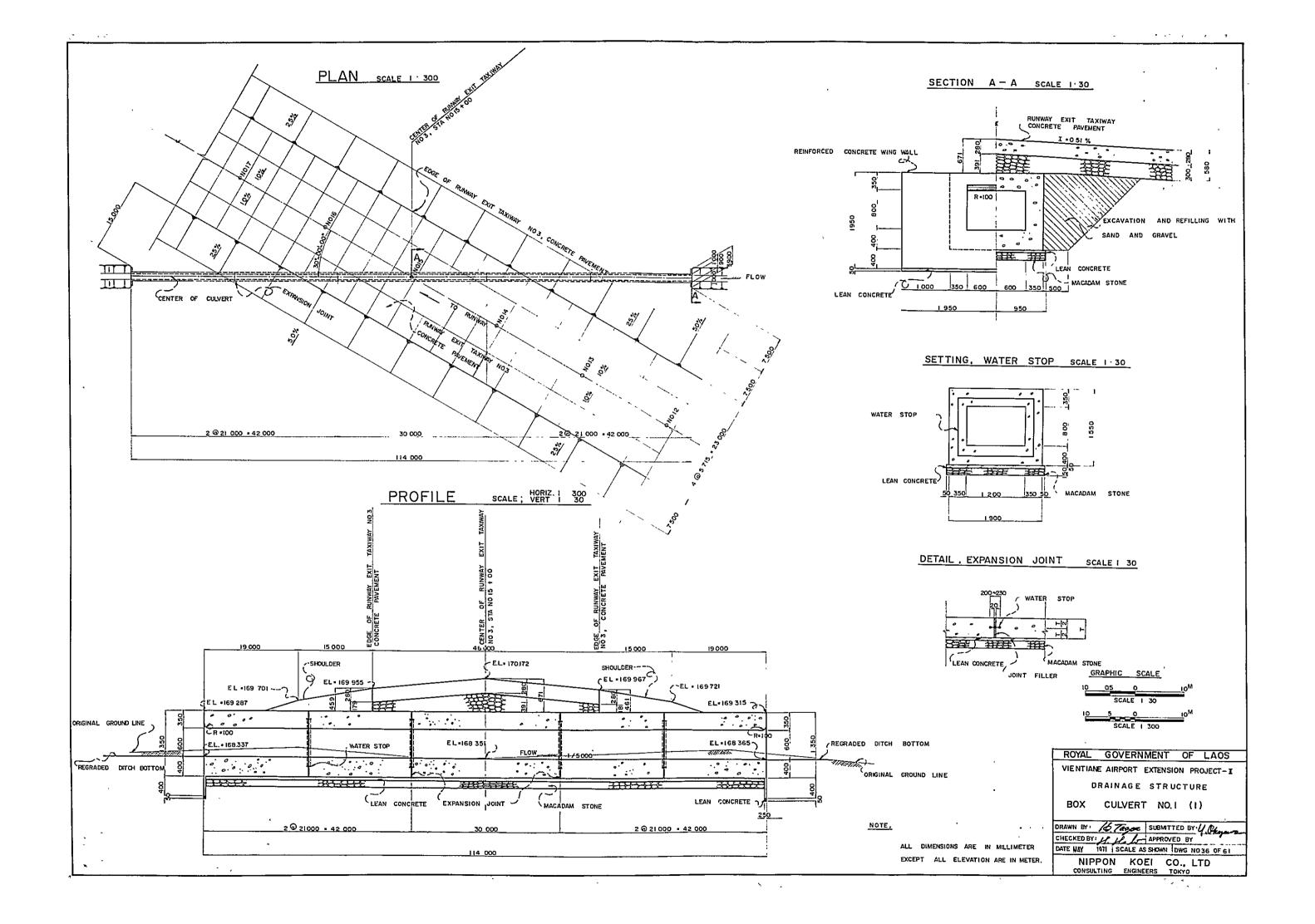
ROYAL GOVERNMENT OF LAOS VIENTIANE AIRPORT EXTENSION PROJECT -II

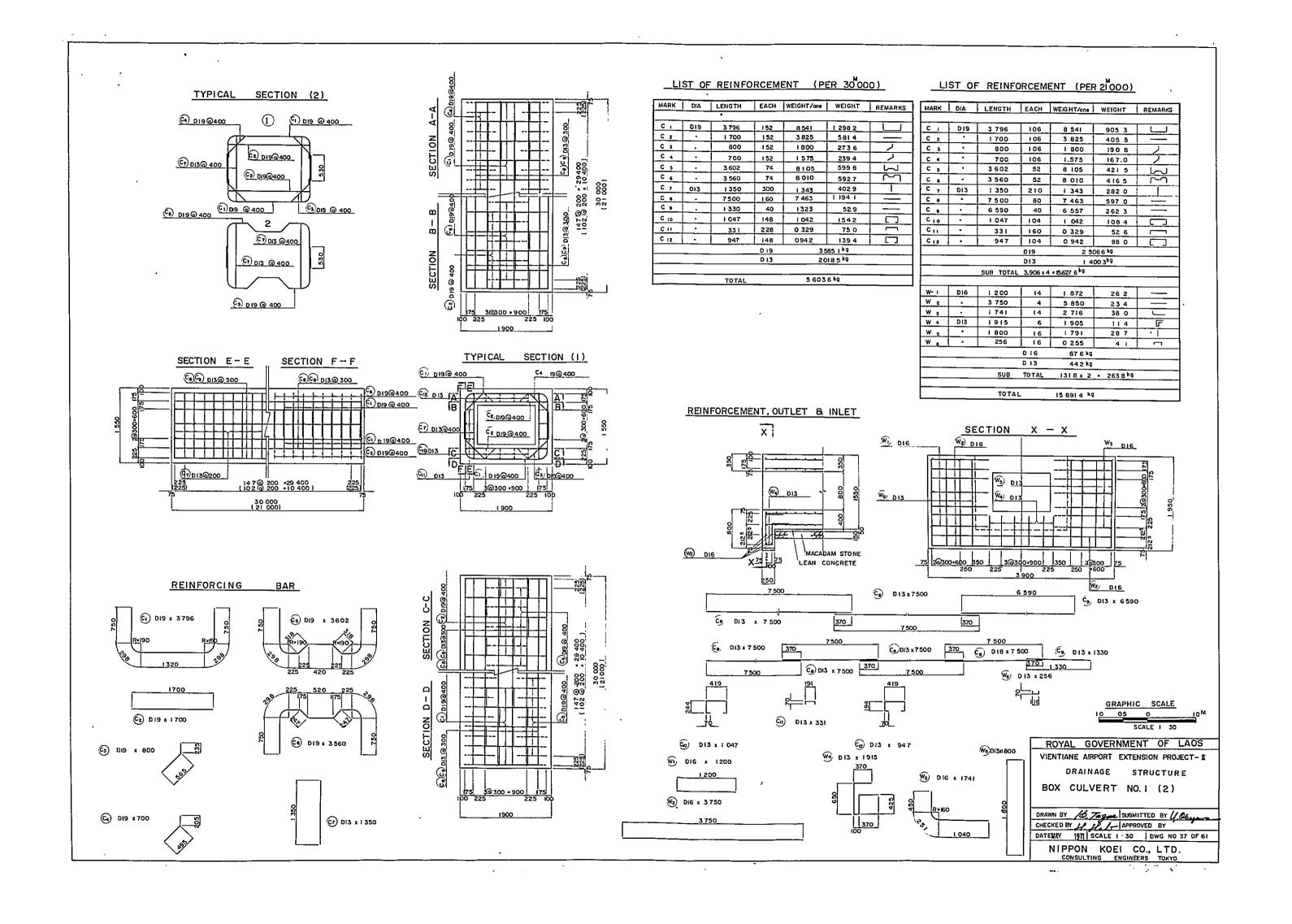
CROSS SECTION

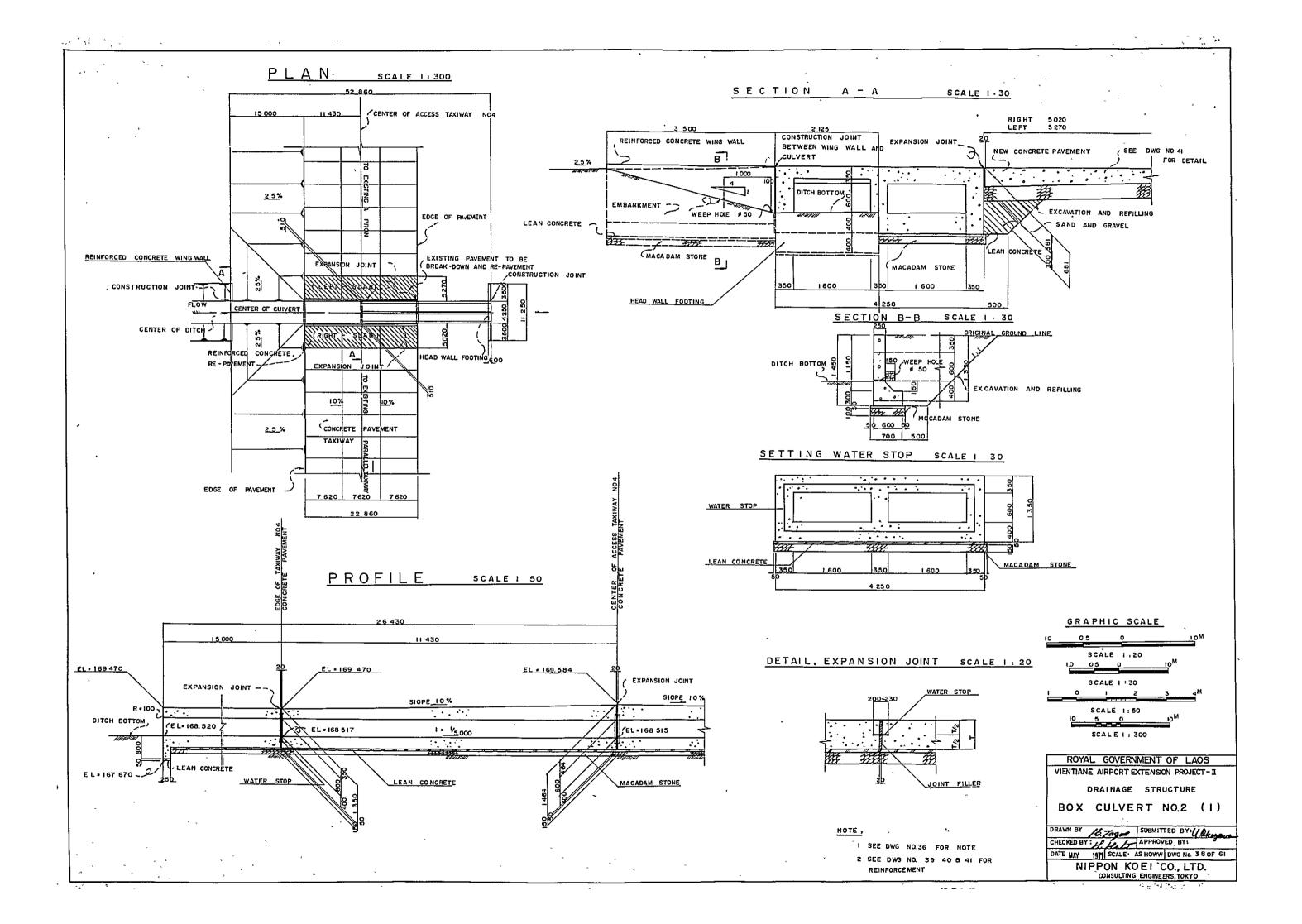
FILLET IMPROVEMENT

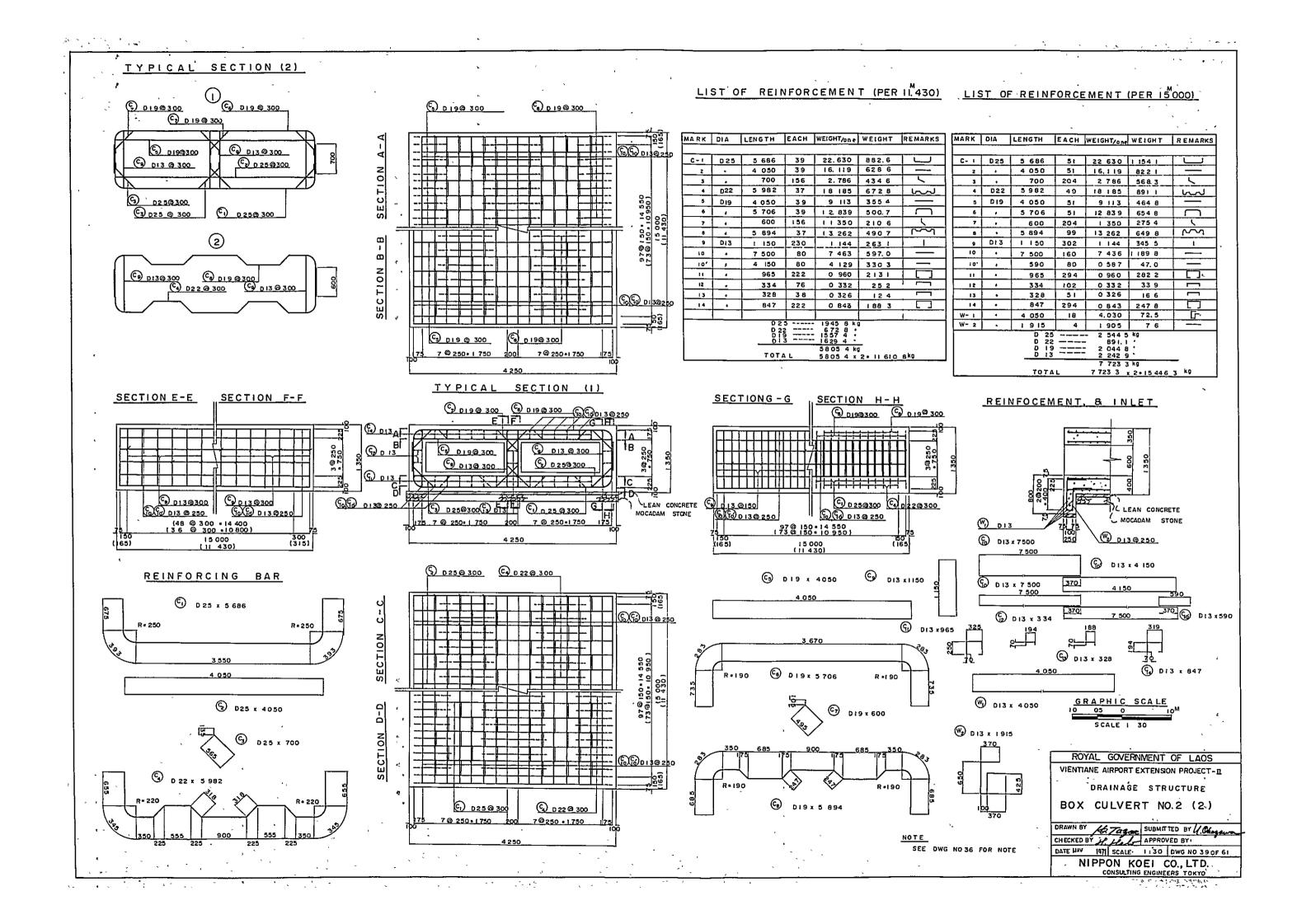
CHECKED BY 16 Tager SUBMITTEL BY Charge SUBMITTEL SUBMITTEL BY CHA NIPPON KOEL CO., LTD.

Carry Carry State Control of

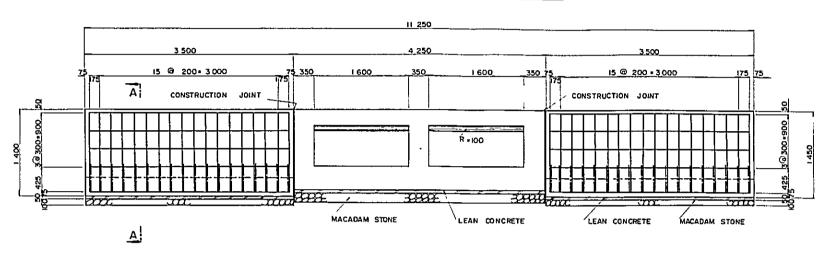








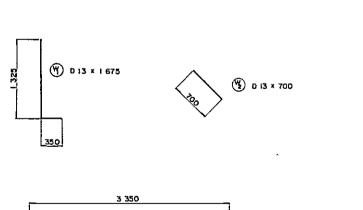
REINFORCEMENT, WINGWALL

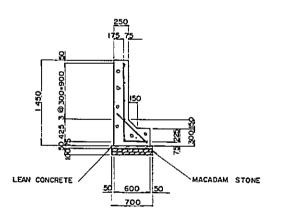


REINFORCING BAR

® DIO × 3 350

SECTION A - A





LIST OF REINFORCEMENT

MARK	DIA	LENGTH	EACH	WEIGHT ONE	WEIGHT	REMARK	S
(W _i)	D 13	1 675	36	1 667	1	, L	_
(W _x)	•	700	36	0 697	25. 1	\	-
(W ₃)	D 10	3 350	12	1 876	22 5		
		!	<u></u>	L-,,	1 _	1	
				D 13	85 1	kg	
				D 10	225		_
		TOTAL	107	6 × 2=214 4	ş kg		

NOTE

SEE DWG NO 36 FOR NOTE

VIENTIANE AIRPORT EXTENSION PROJECT -II DRAINAGE STRUCTURE BOX CULVERT NO.2 (3)

DRAWN BY

CHECKED BY. J. J. APPROVED BY

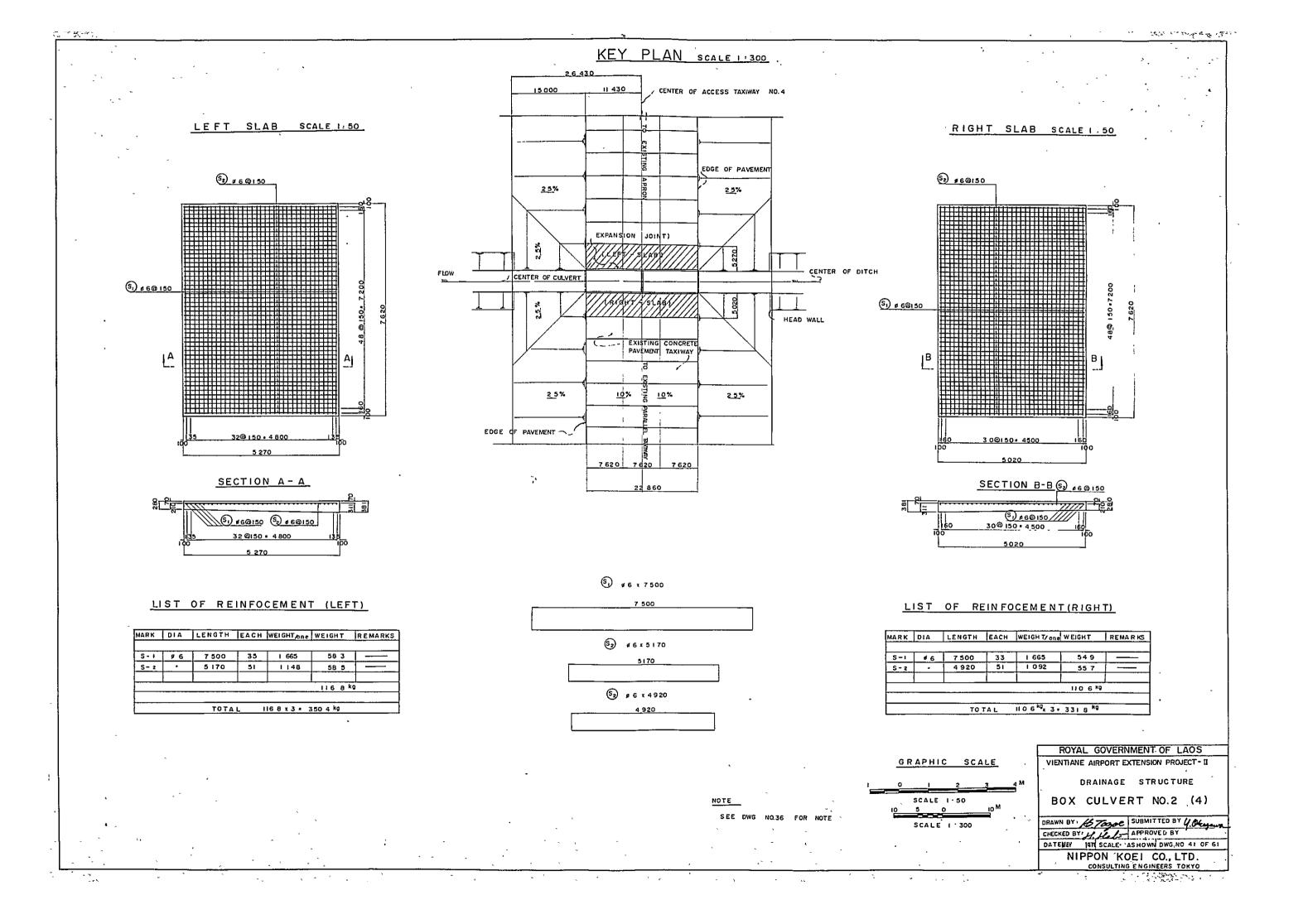
DATE MAY 1971 SCALE: 1: 30 DWG NO 40 OF 61

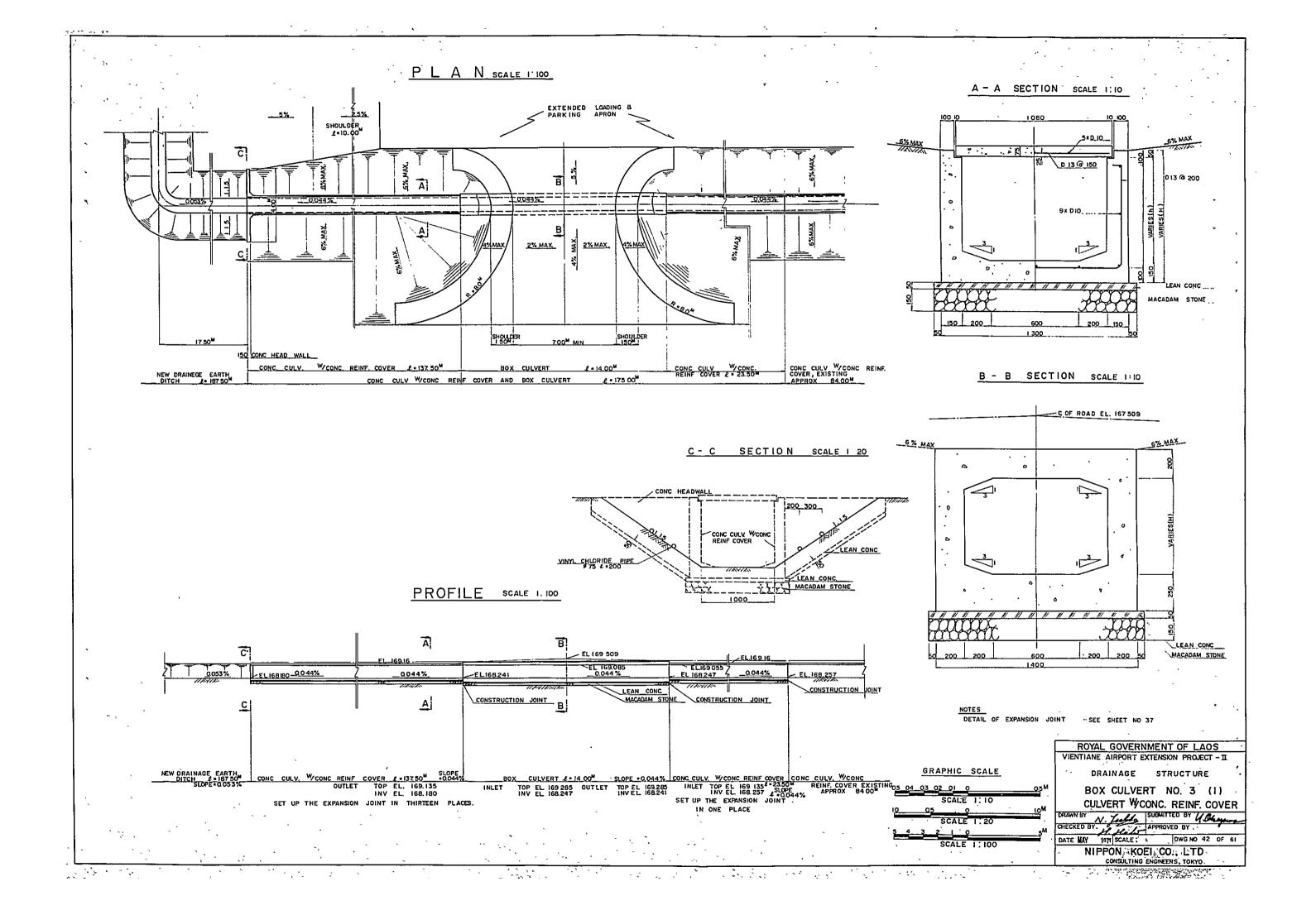
NIPPON KOE! CO., LTD

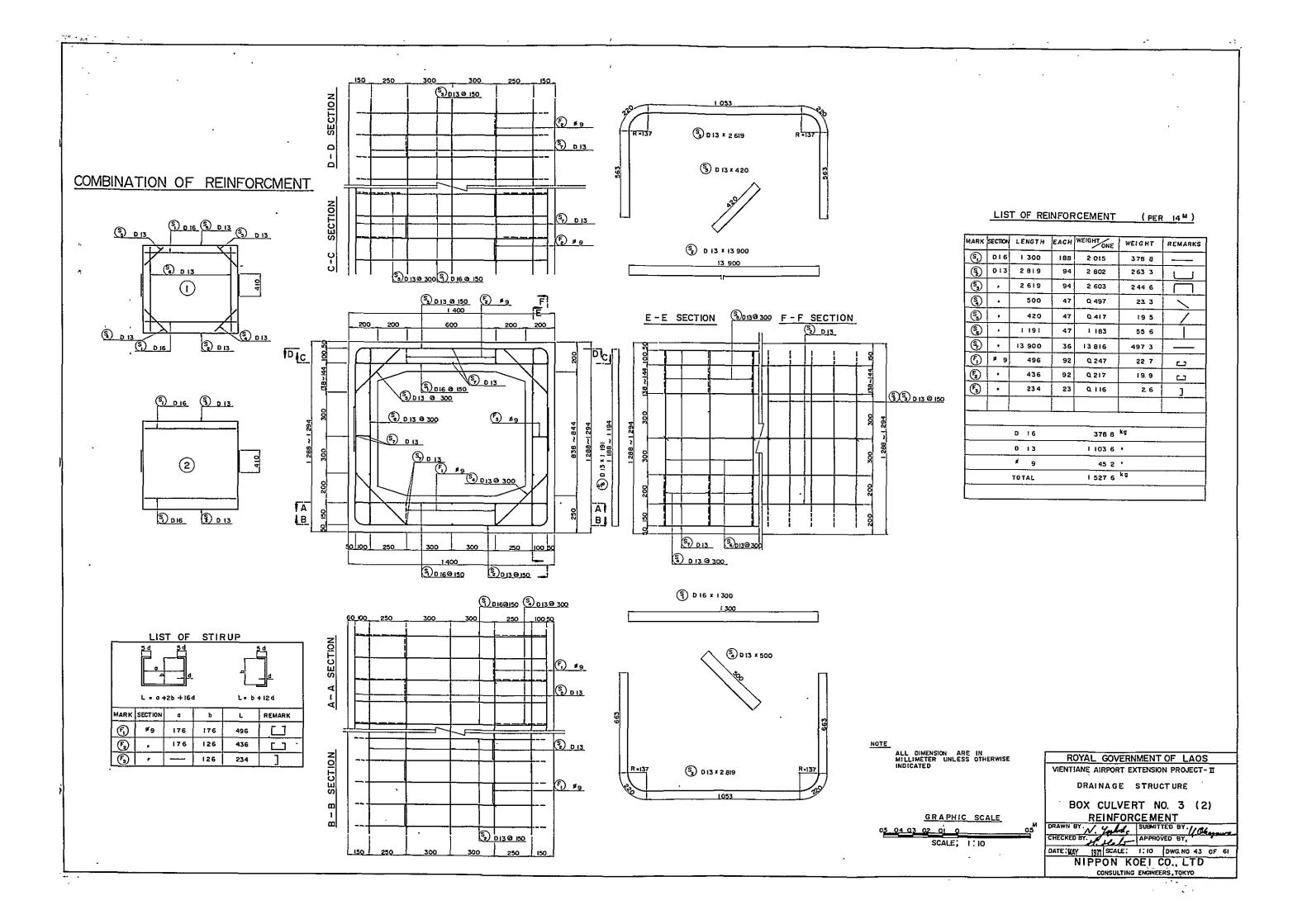
CONSULTING ENGINEERS, TOKYO

ROYAL GOVERNMENT OF LAOS

GRAPHIC SCALE







HEAD WALL SCALE 1:10 A - A SECTION B (0 150 - 1 200 LIST OF REINFORCEMENT \$ D 16 @ 150_ MARK SECTION LENGTH EACH WEIGHT ONE WEIGHT REMARKS S D I6 I 182 7 I 832 I2 8 S2 . 475 9 0.736 66 6 S3 . I 500 I 2 325 2 3 S4 . 400 6 0.620 3.7 25 4 kg D 16 25 4 kg TOTAL 5) 0 16 00 150 (\$) D 16 @ 150 S D 16 × 1500 (S) D 16 x 1 182 B - B SECTION S D 16 x 475 \\$}016 × 400 S 0 16 0 150 A 2 2 2 A NOTE ROYAL GOVERNMENT OF LAOS VIENTIANE AIRPORT EXTENSION PROJECT- II ALL DIMENSION ARE IN MILLIMETER UNLESS OTHERWISE INDICATED DRAINAGE STRUCTURE (NO. 3)

BOX CULVERT NO. 3 (3)

DETAILS, HEAD WALL

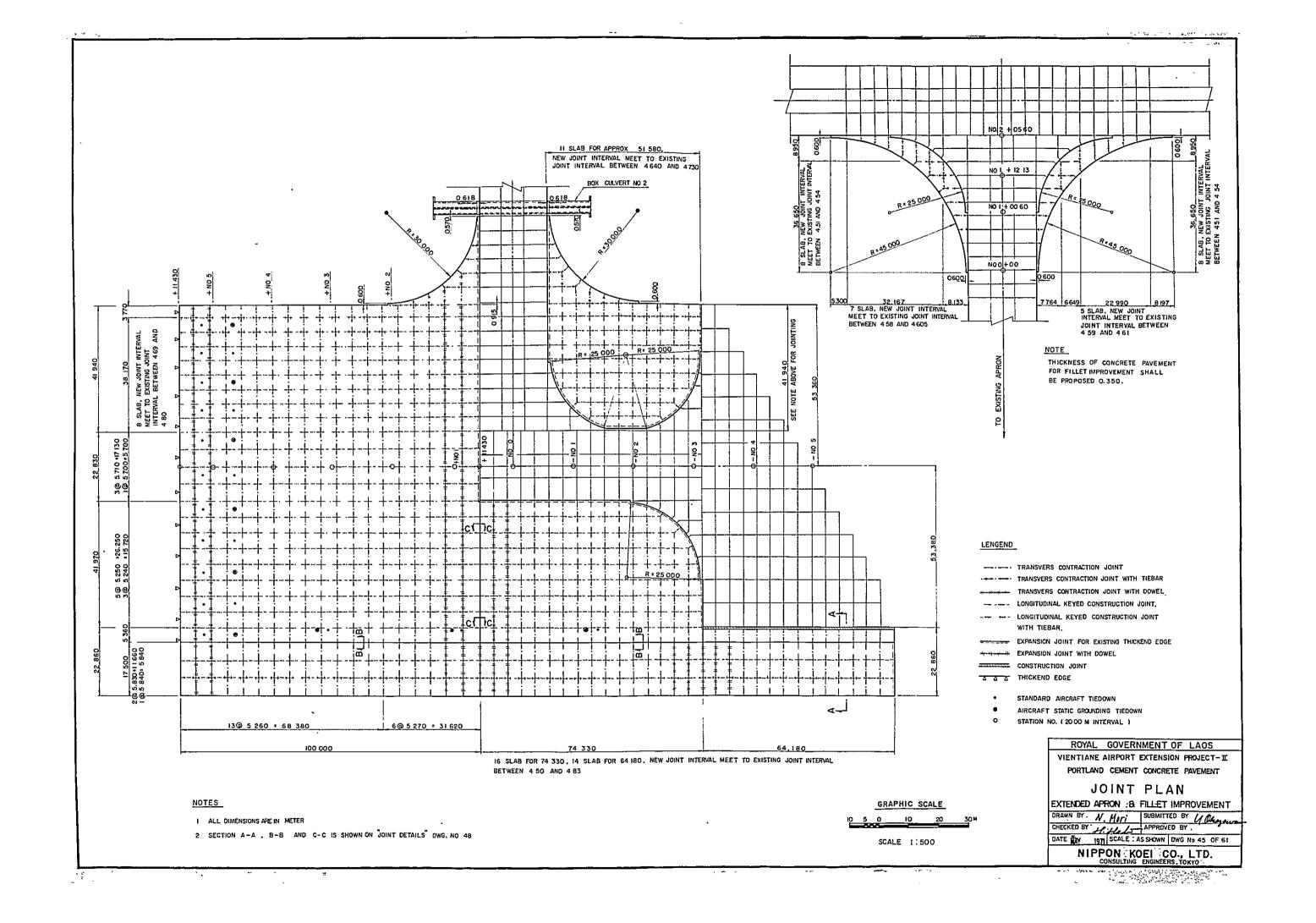
DRAWN BY / Jule SUBMITTED BY / ORGANIA
CHECKED BY APPROVED BY.

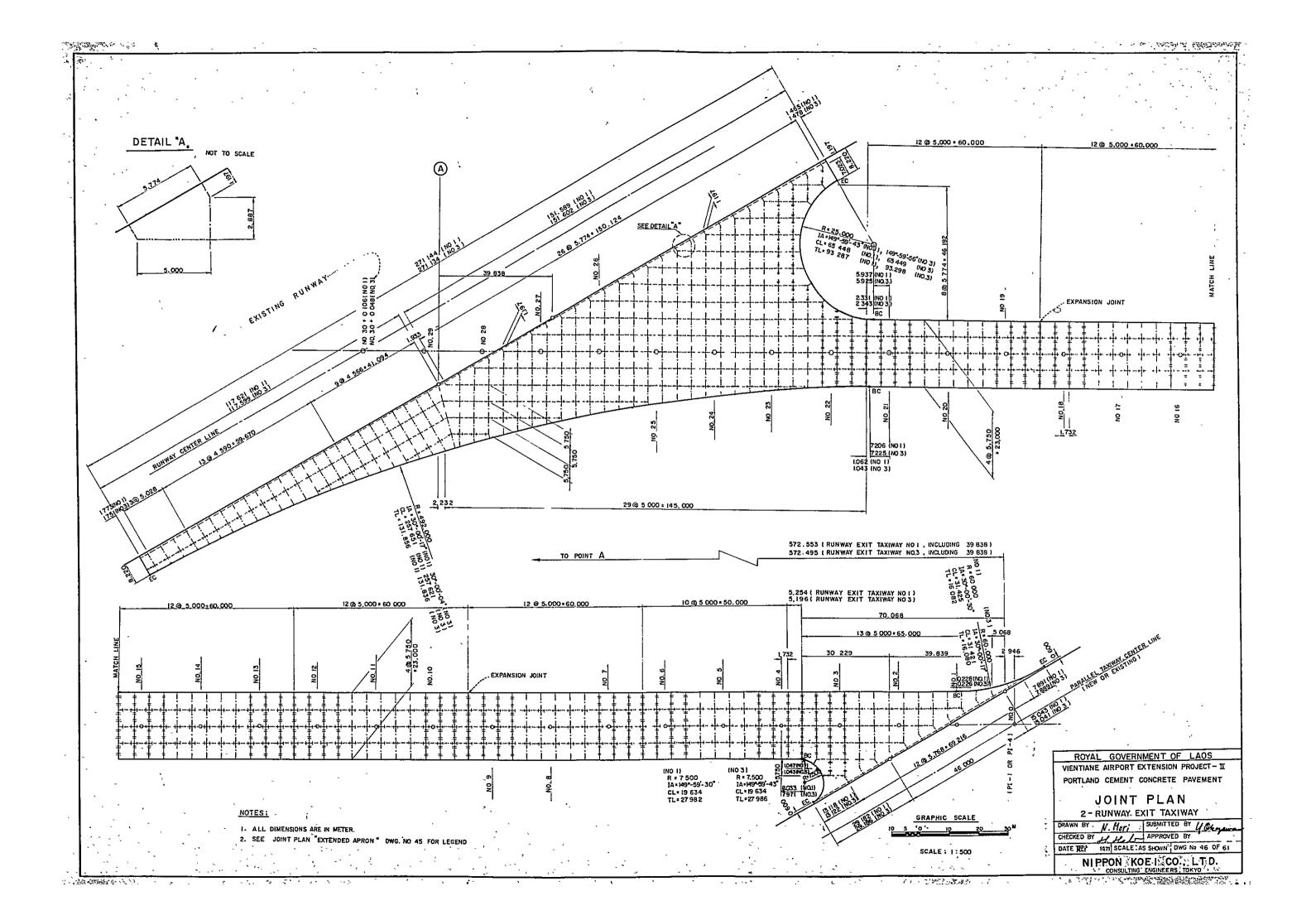
DATE MAY 1971 SCALE: 1: 10 DWG NO. 44 OF 61

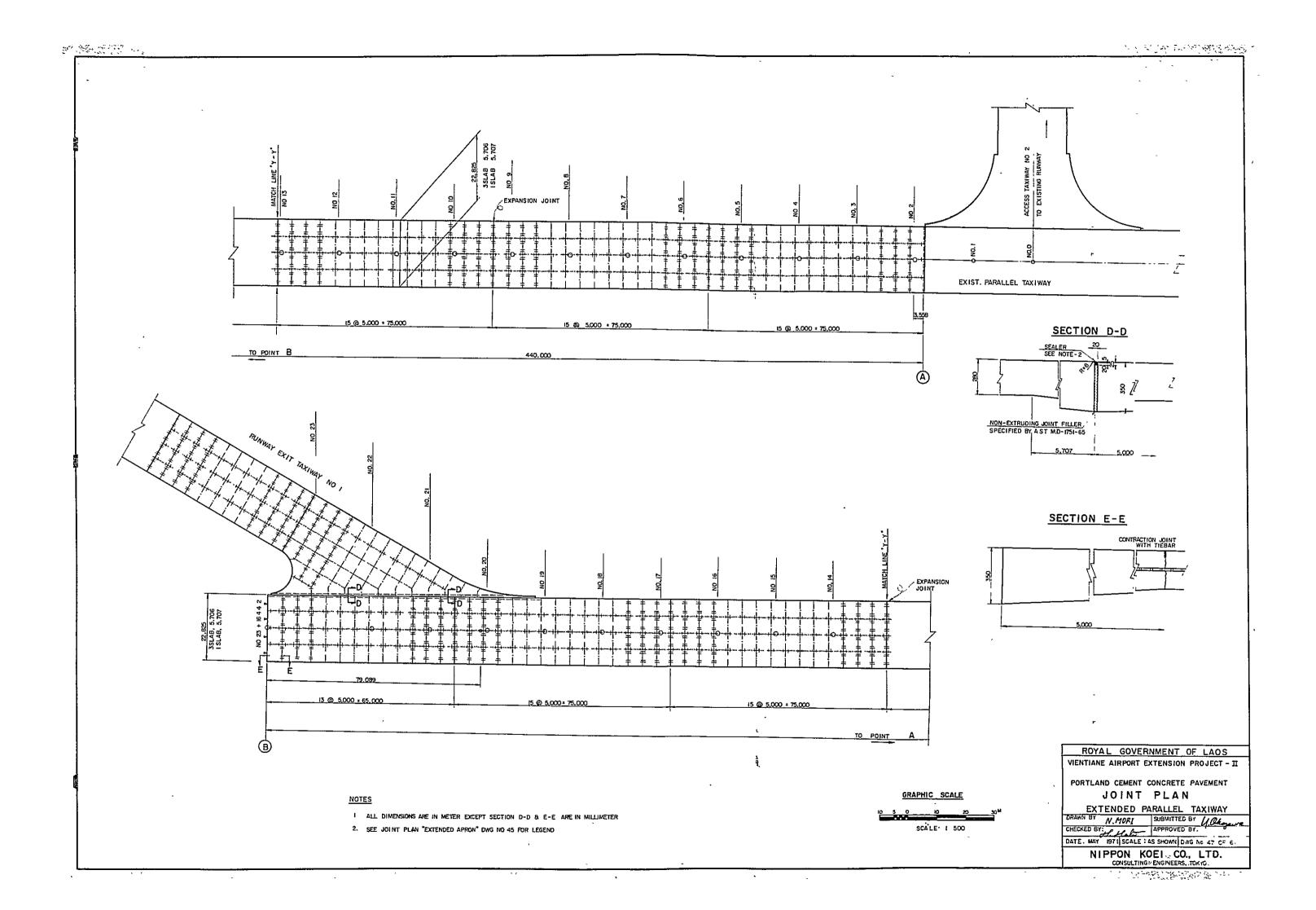
NIPPON KOEL CO., LTD.

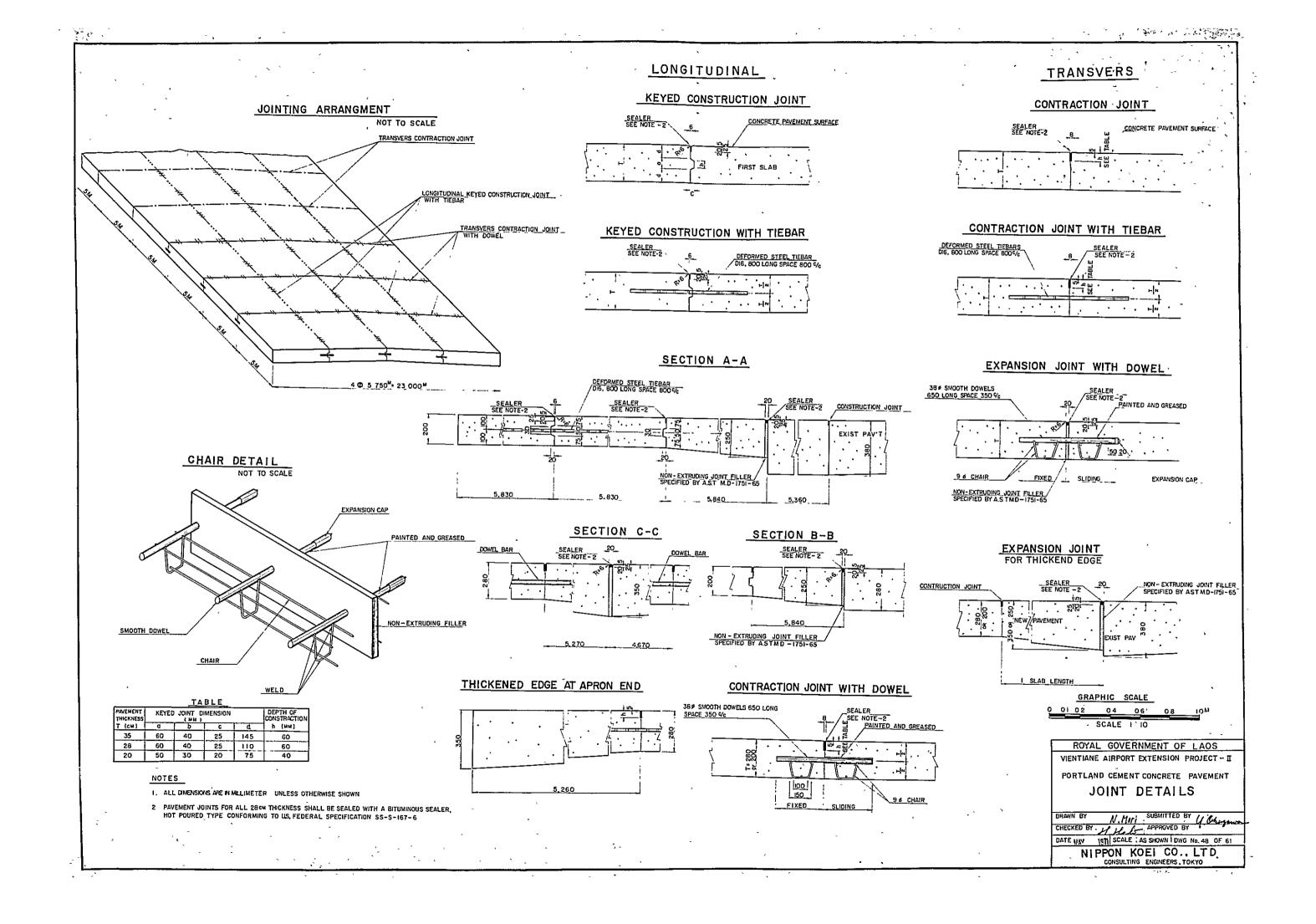
CONSULTING ENGNEERS, TOKYO

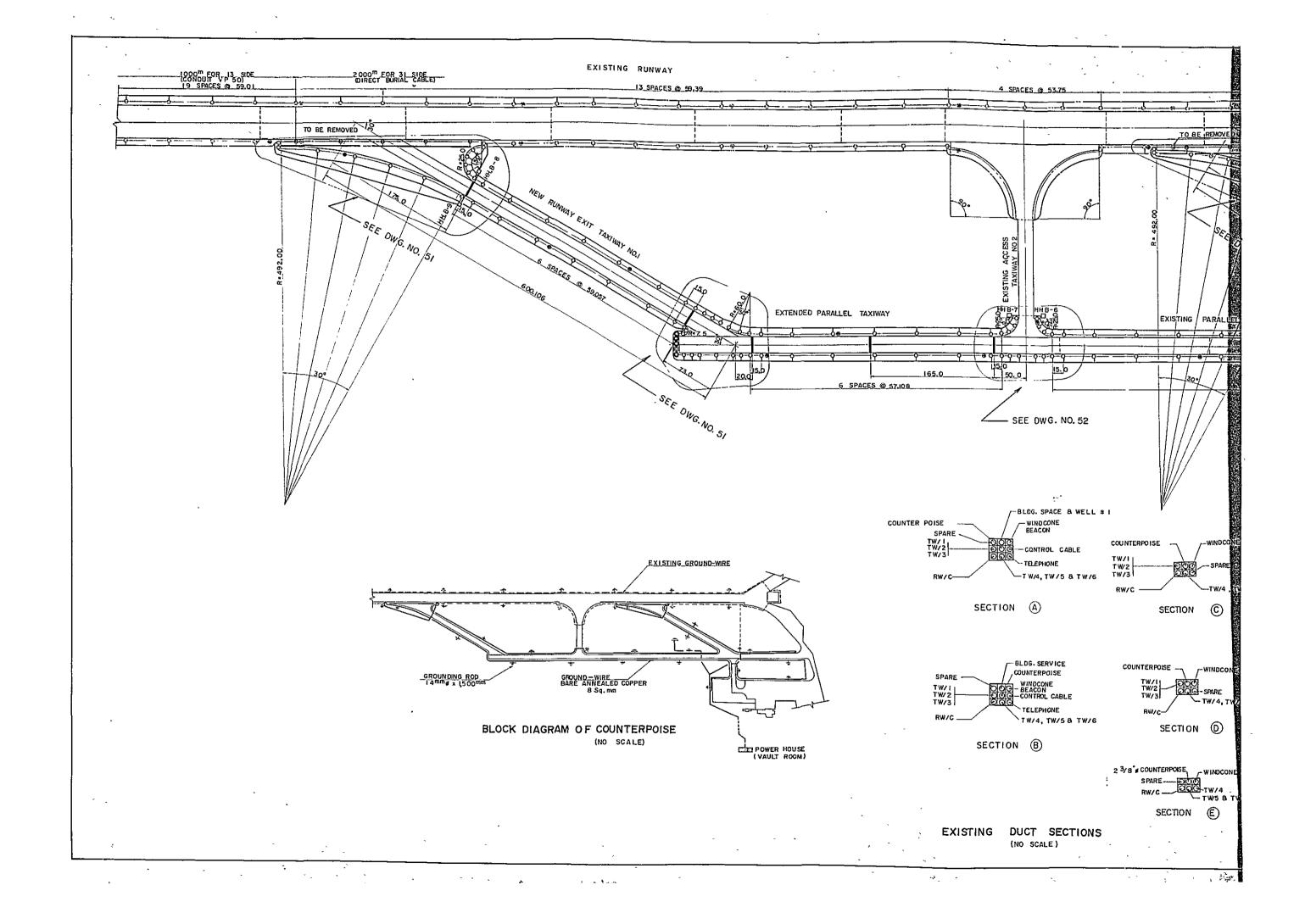
GRAPHIC SCALE

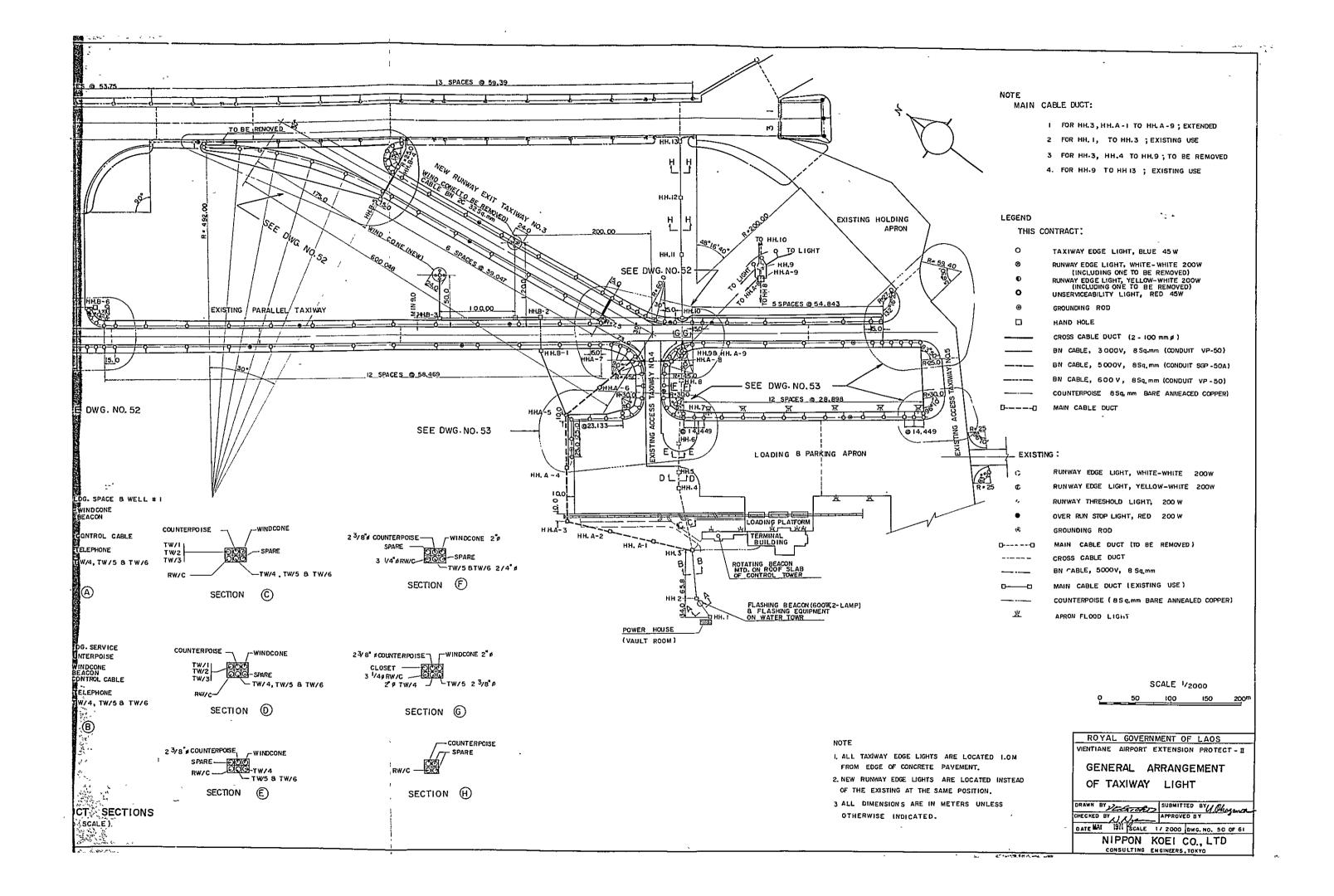


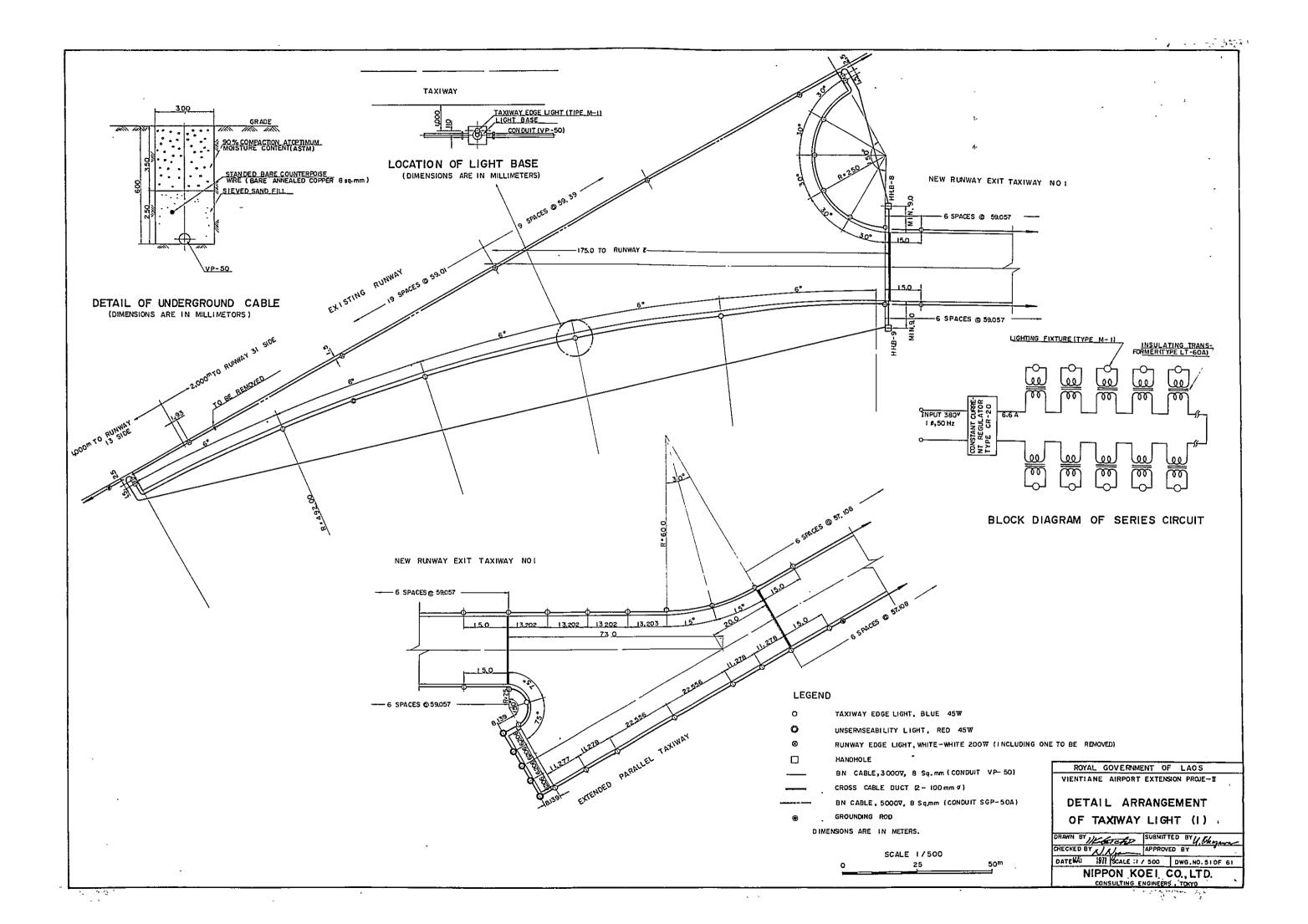


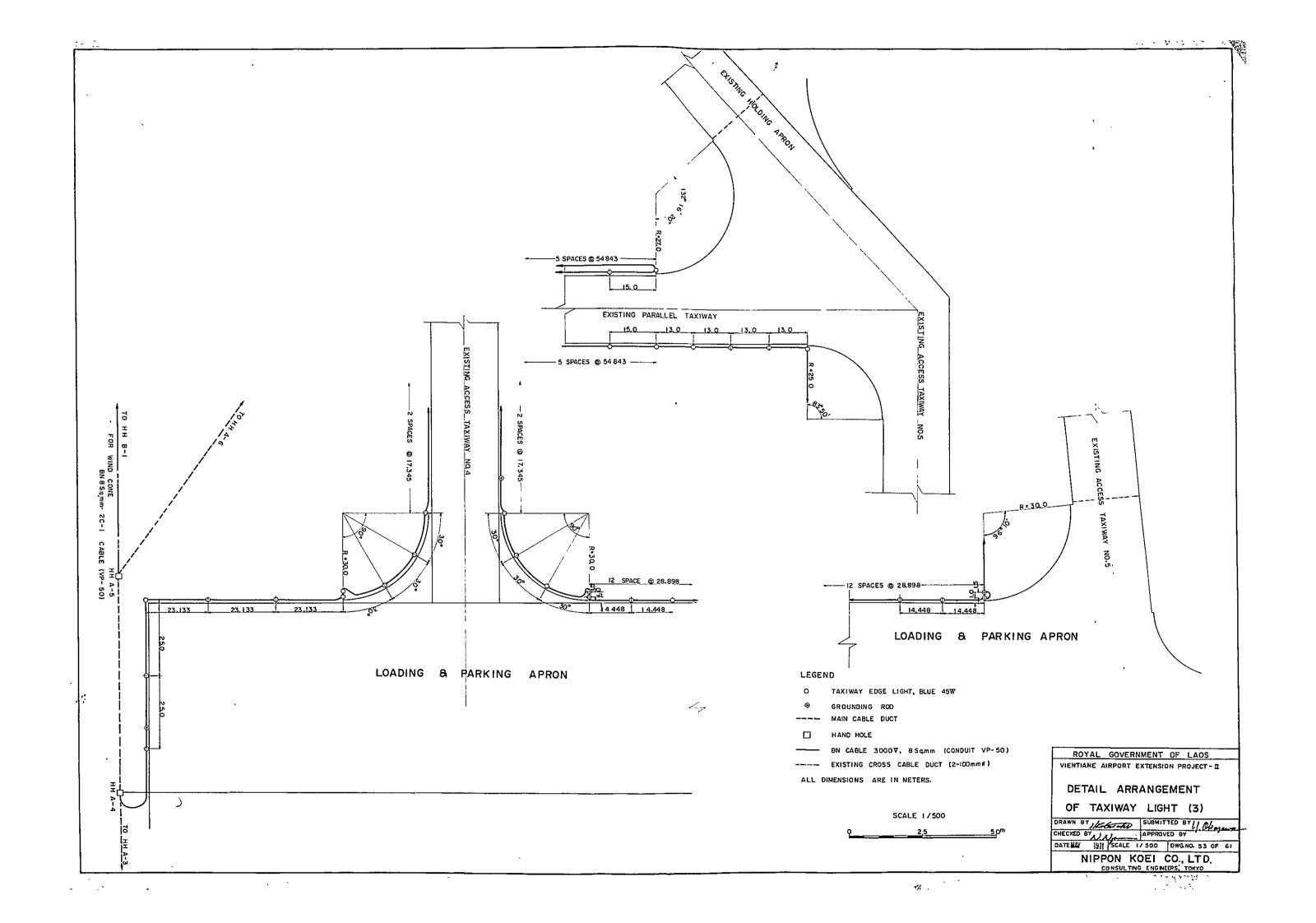


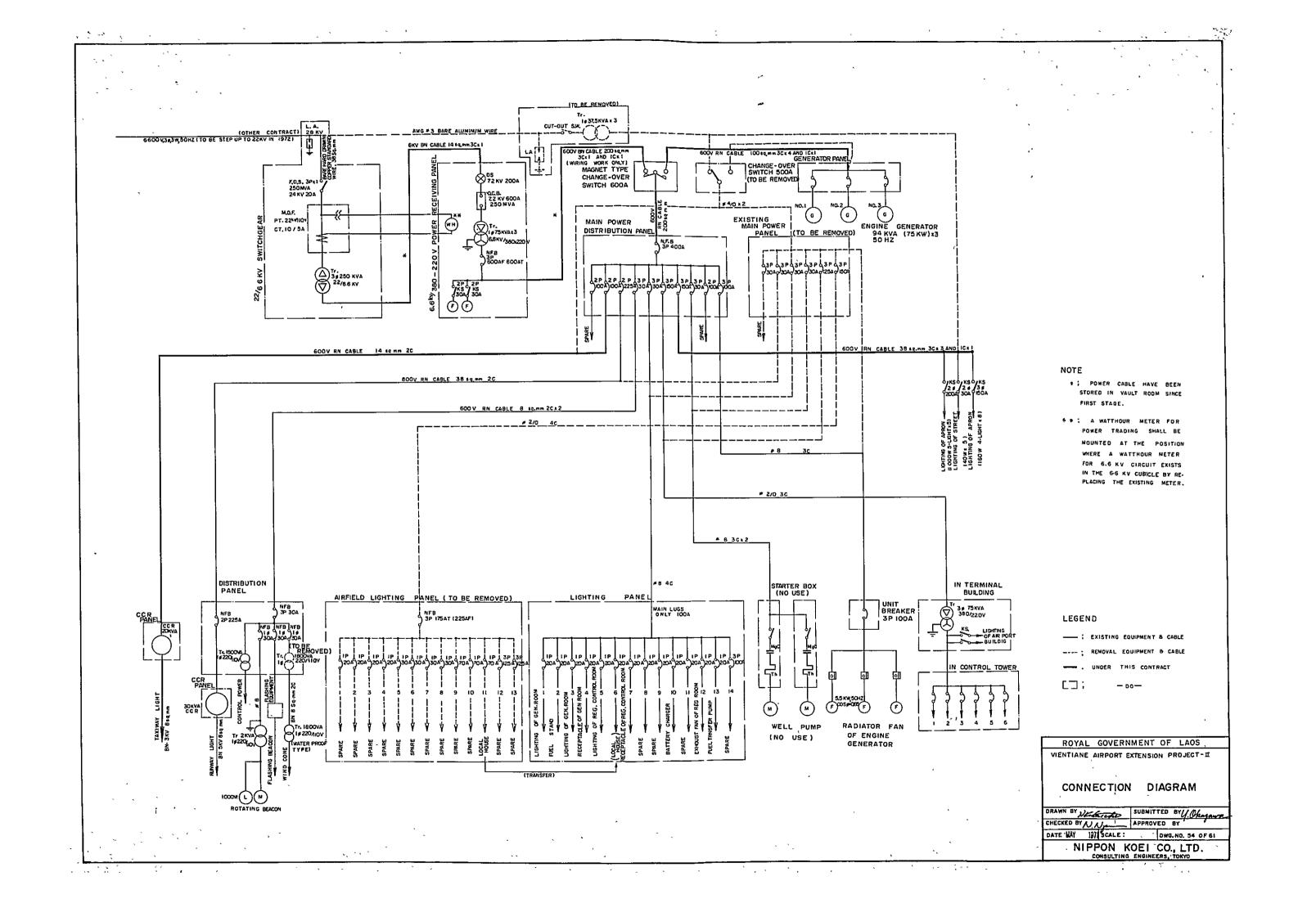


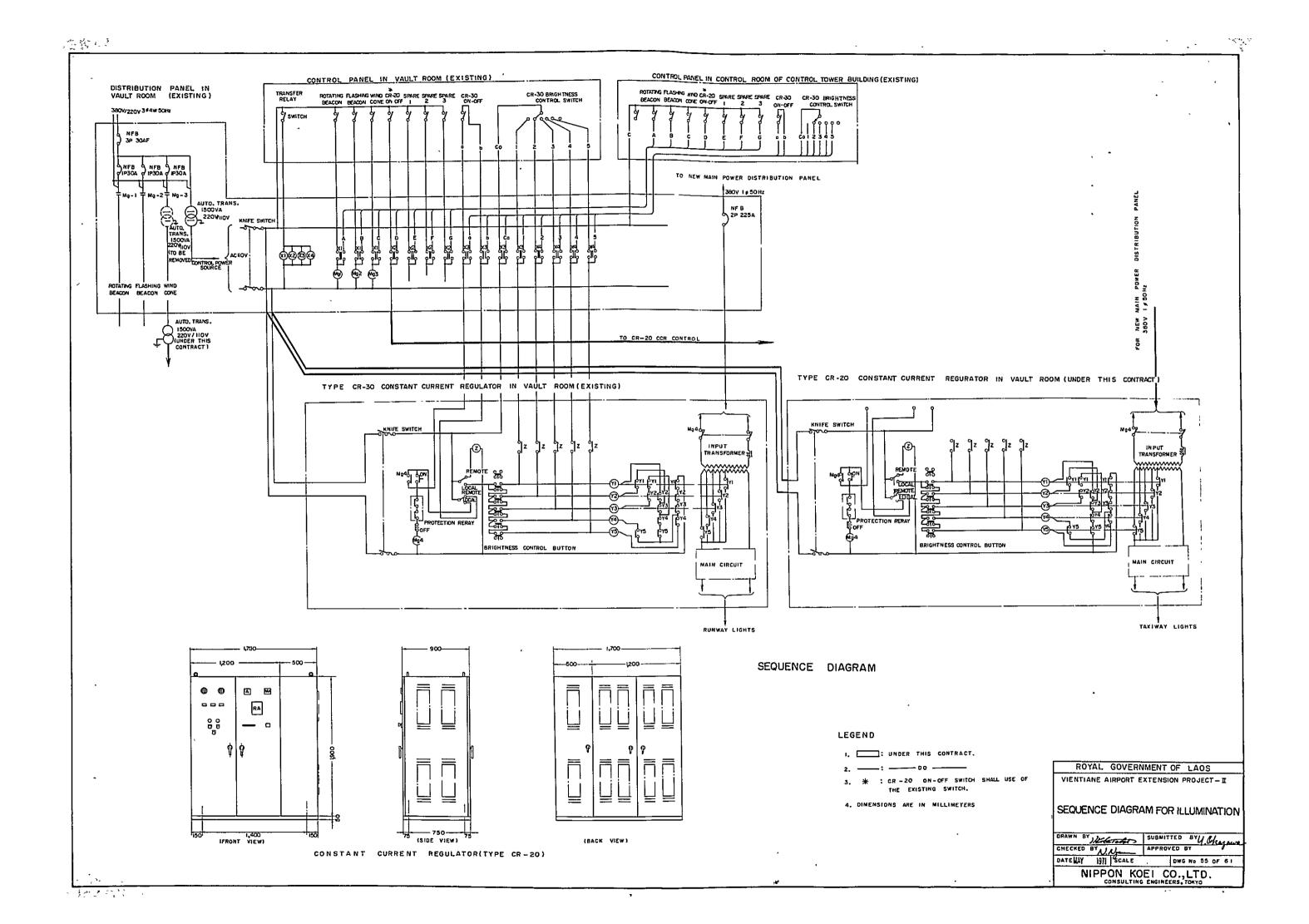


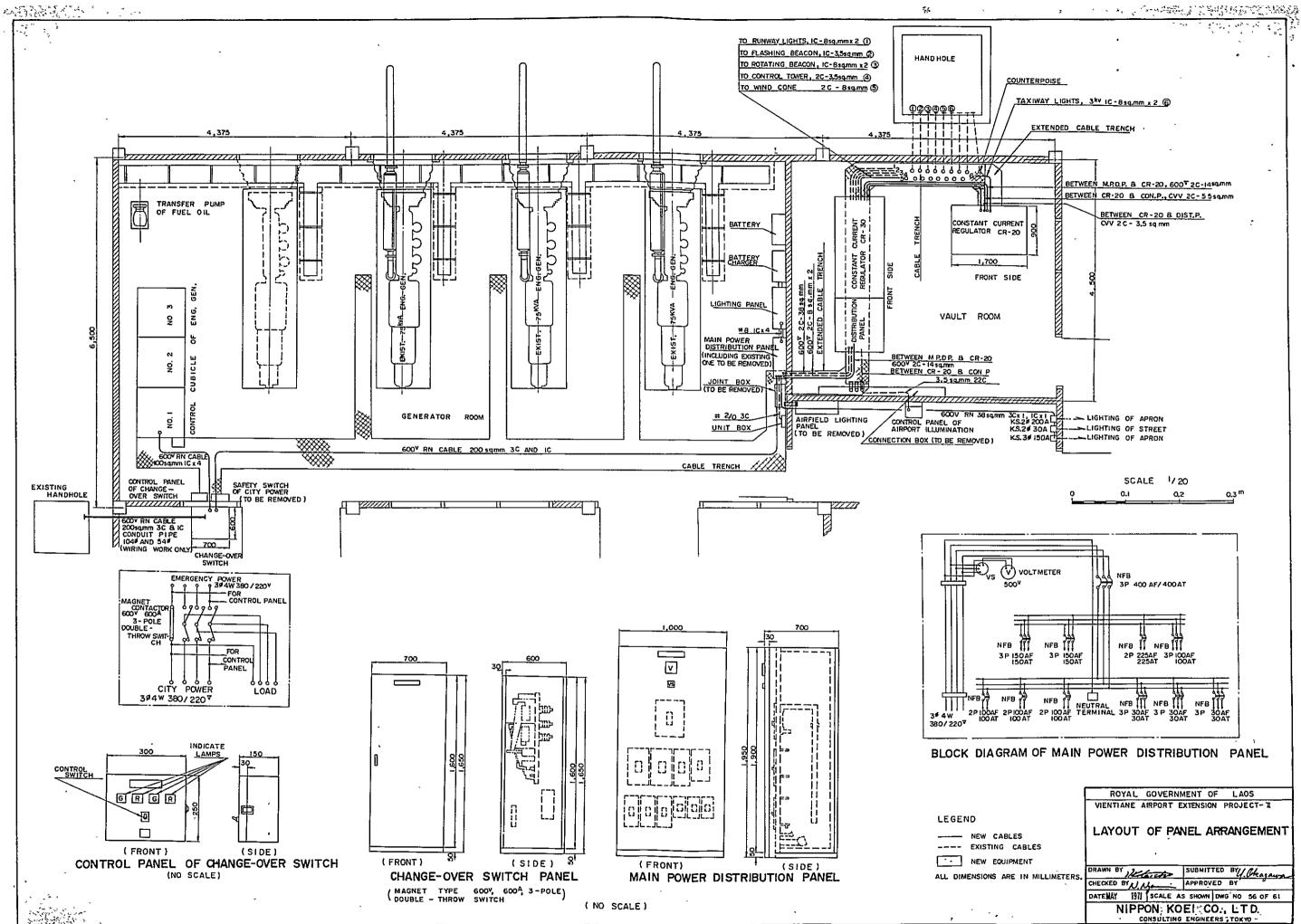




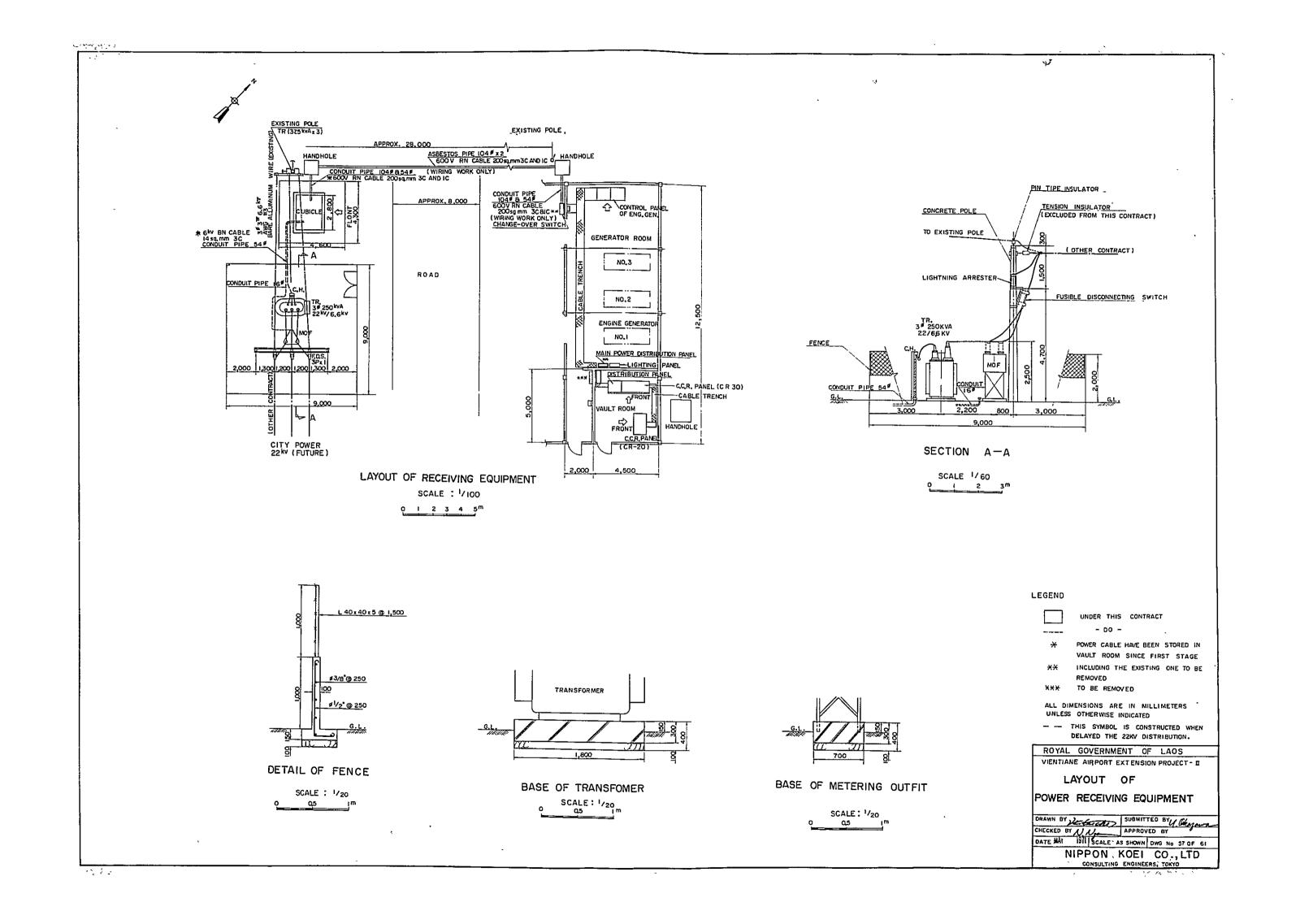


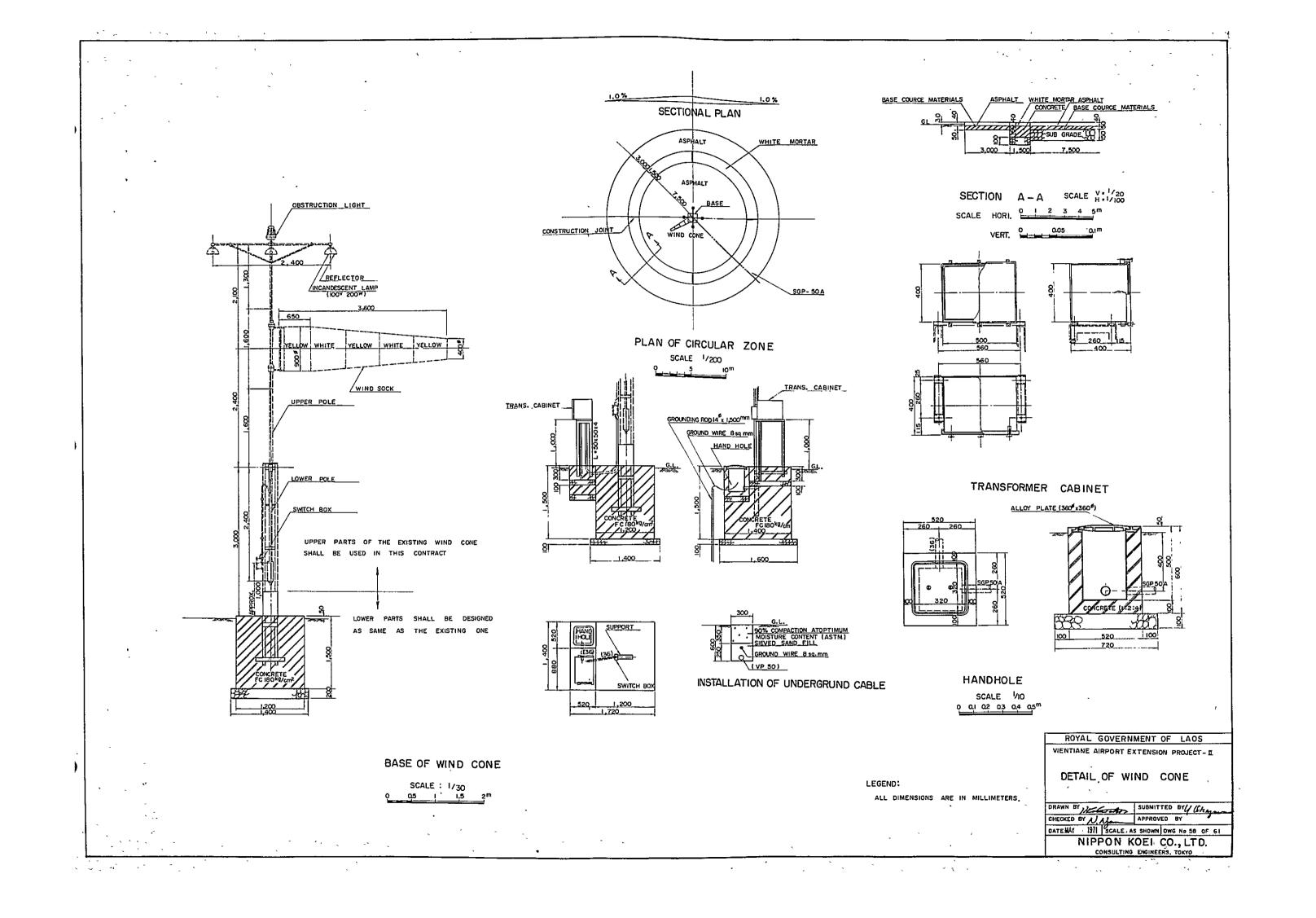


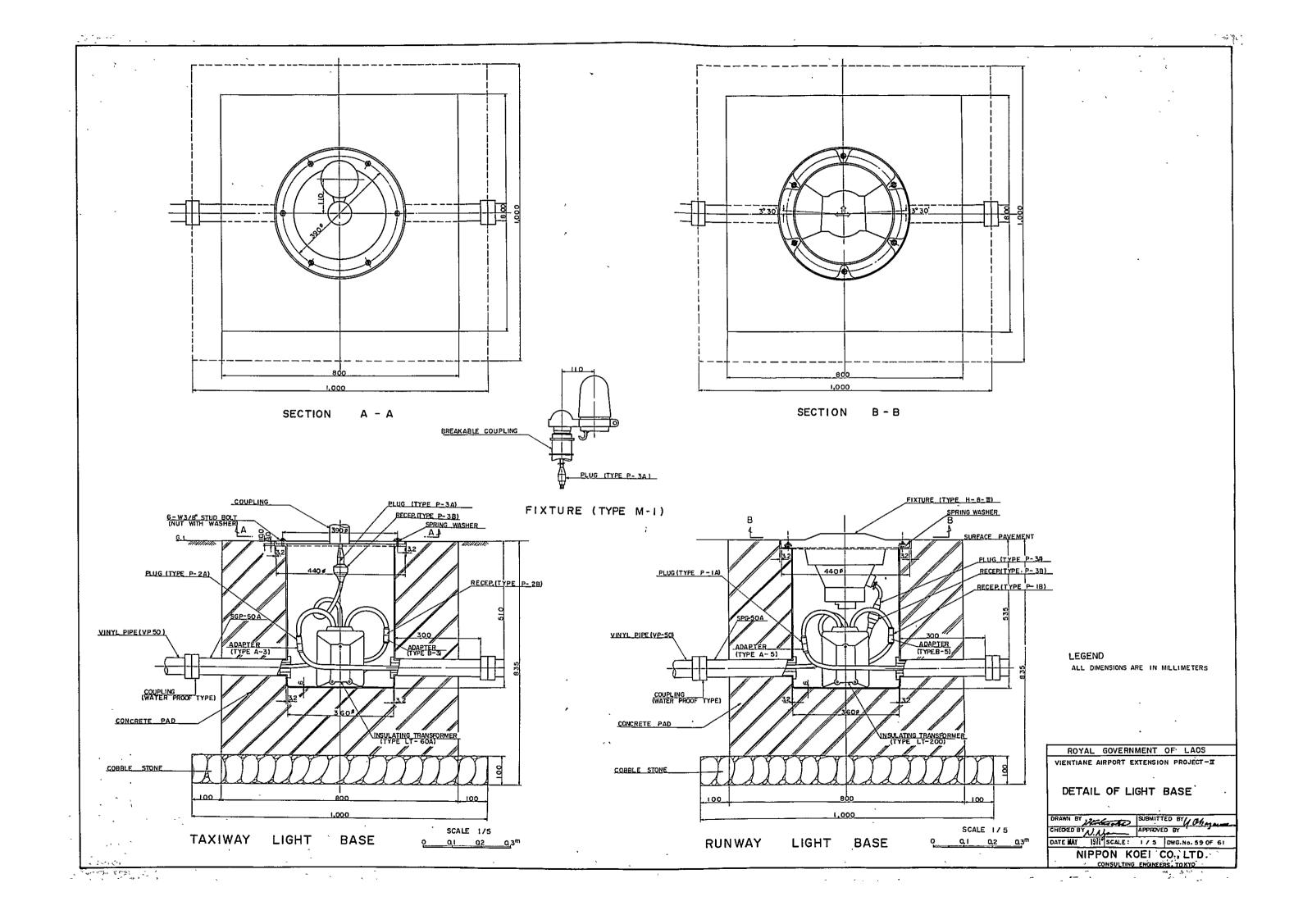


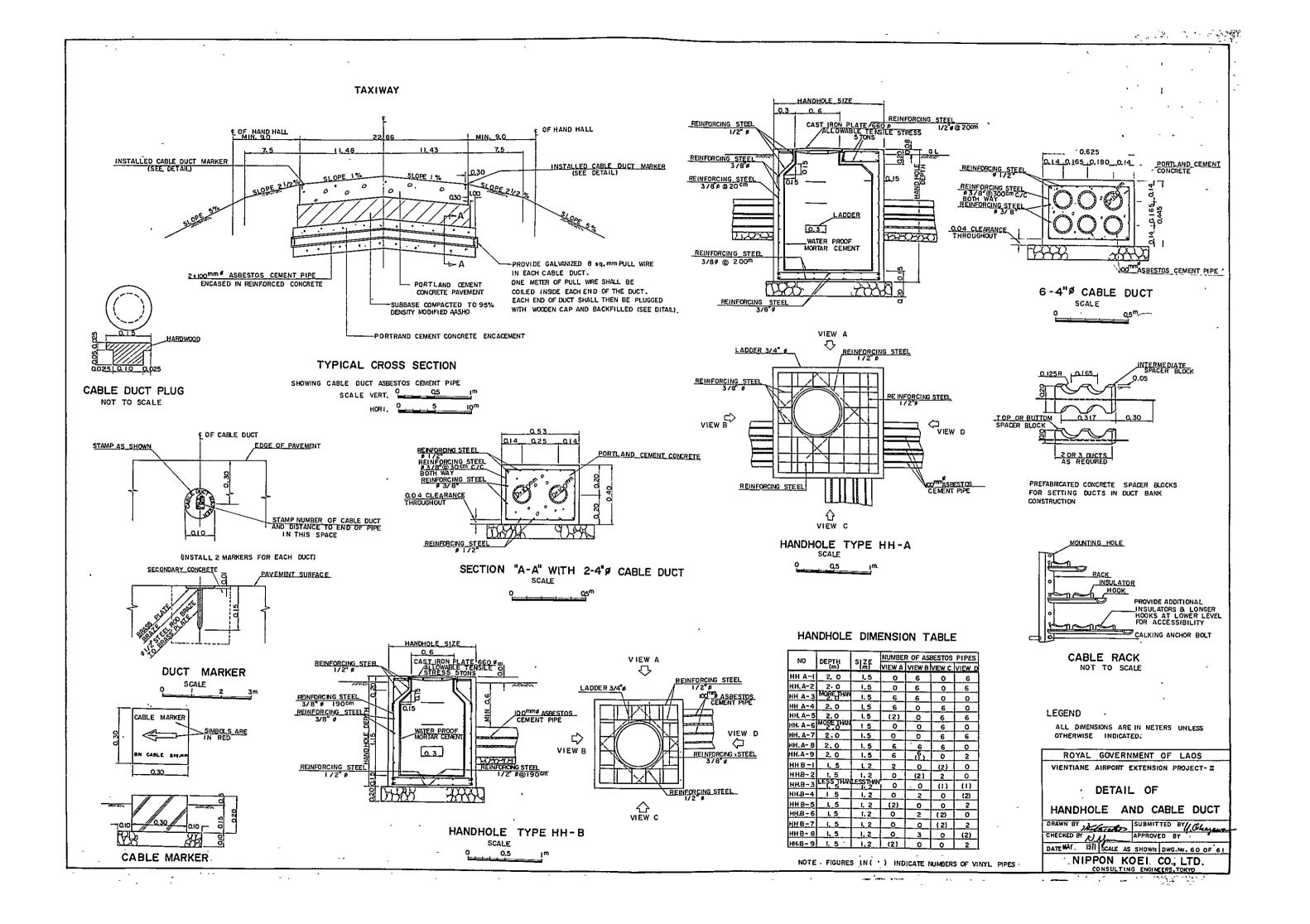


The second secon









NO.	DESCRIPTION	QUANTITY	UNIT	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANHARY	FEBRUARY	MARCH	REMARK
	SITE PREPARATION WORKS	1		consequences and a			DEGEMBER	VARIOART	LEGNOAN	MARCON	NEWAIN
	OTE THE MONTO]									
Α	TAXIWAY							<u> </u>			
A 1	STRIPPING OF TOPSOIL	14,100	M3	~ <u>~</u>	an seed when it weren	most to a state to the	A 12 12 142				BY DUMP TRUCK
A - 2	STRIPPING OF TOPSOIL	12,500	M ³		She at Total of the	September - Company	ANDERSON ENVIRONMENT]]			BY CARRY - ALL SCRAPER
A - 3	CUTTING AND FILLING	1,600	M ³			ł	 				
A - 4	EMBANKMENT	54,600	M3		was (warding; be		·····································	The Season Season of the	₫		BORROWING AND SUBGRADING
A ~ 5	BASE COURSE	11,000	M ³	المناسبة المناسبة	AN 7.30-2.	Contraction of Lines	4 mount of white state water	The half are of the contrastick of	1 2		BORROWING AND GRADING
A - 6	CONCRETE PAVEMENT	12,000	M ³		CAST THE REAL PROPERTY.	 		rate as especially as an	->4(0-2 n ep 4		28 ^{cm} THICKNESS
A - 7	SHOULDER SODDING	23,500	M ²		and on the	Safetteet the track, and consu	The present of the property of	and the second second second	******************		
A - 8	GRADED AREA SEEDING	37,200	M ²		at on a re-	terr XA ha e har es	AND	Secretary and Secretary and a	Come of the second of the second	4,4	
В	APRON AND FILLET IMPROVMENT										
B - I	STRIPPING OF TOPSOIL	6,100	M ³	V-17			MARKET NOTE TOWN	1			BY DUMP TRUCK
B - 2	REMOVAL OF SOFT CLAY	13,800	M ³	VCD NO.	Water water you	474, 80,08 - 8 % , Jesus parent					
B - 3	REPLACEMENT WITH SAND	5,700	M3	:		the second section of the second	I C's the month wife	The proof "Notice, "Notice or go	\$ \$400 Acces		
B - 4	CUTTING AND FILLING	900	M ³			<u> </u>	19.00				
B - 5	EMBANKMENT	16,800	M ³	re-cric	1 				Complete the and the service		BORROWING AND SUBGRADING
B - 6	BASE COURSE	6,900	, M3	Two w	and many designation and				20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	þ	BORROWING AND GRADING
B -7.8 9,10	CONCRETE PAVEMENT	5,800	M3		Viga at things	<u> </u>			246,52 14.44	Not or Widow	20, 28, 35 & 38 cm THICKNESS
B – II	SHOULDER SODDING	5,500	M ²		4 00					3m 71 , Dr.	
B - 12	GRADED AREA SEEDING	2,300	M ²						1	12000000	
C	DRAINAGE								1		
C-1	EXCAVATION AND REFILLING	1,700	M ³	31-20 g 250	Single Color Specific agency (Color	4					
C - 2	MACADAM STONE FOR STRUCTURAL BED	110	M ³		Commence of the Commence of th	Marie Sales					
C - 3	STRUCTURAL CONCRETE	24 1	M ³			econtaco e cisa	1 JAN 15 64-19			1	BOX CULVERT NO I
C - 4	STRUCTURAL CONCRETE	222	W ₃						1,0	MARKET AND AREAS.	BOX CULVERT NO 2
C - 5	STRUCTURAL CONCRETE	116	M ³			PERSONAL SERVICES	1000 TOOL				BOX CULVERT NO. 3
C - e	EXCAVATION EARTH OPEN DITCH	2,600	M ³	Walling will be	Applications of the Property	· Carrier and a constraint	James and the processing	<u> </u>			
D	MISCELLANEOUS WORKS	1	Is					proper address not a 118	Constitution Name of State	92, 73 \$ 3 M ENT \$ 7 P 28]
E	LIGHTING INSTALLATIONS						1	1		1	
	LIGHTING FACILITIES	207	NOS		manual management of a section	to a highwayan warn	1 CC 1 ET (1997Mets/4992	t stand the management to	a trecommend of the	The company of the Property of the San Carlot And S	TAXIWAY
	LIGHTING FACILITIES	9	NOS.				> - > - > - > - + - + - + - + -	Side Control of the Care Con-	E Sachini Mining 2		RUNWAY
	LIGHTING FACILITIES		1805.		y a compression to constitu	 		or the Company of the Company			WIND CONE
	MAIN CABLE DUCTS AND HAND HOLES	500	M		No. of the Con-	. Proposition of the free forces	v (3) years of milestone and more	N Water amount			
	POWER RECEIVING EQUIPMENT	300	ls ls					Manual Control of the	2 128, 157, 12, 15, 150, 150, 150, 150, 150, 150, 150,	E Martin Jacob of The Control	1

ROYAL COVERNMENT OF LAGS
VIENTIANE AIRPORT EXTENSION PROJECT- II

CONSTRUCTION SCHEDULE

CHECKED BY

DATE NAY 1971 SCALE DWG No 61 OF 61

NIPPON KOE IS CO. LTD.

CONSULTING ENGINEERS, TOKYO