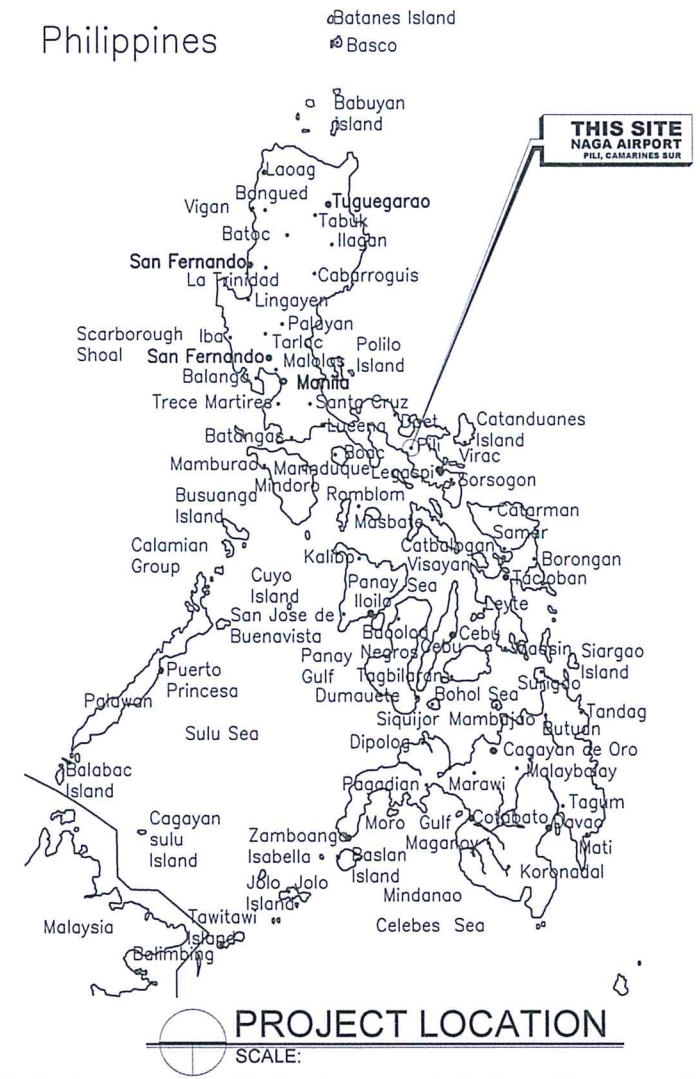
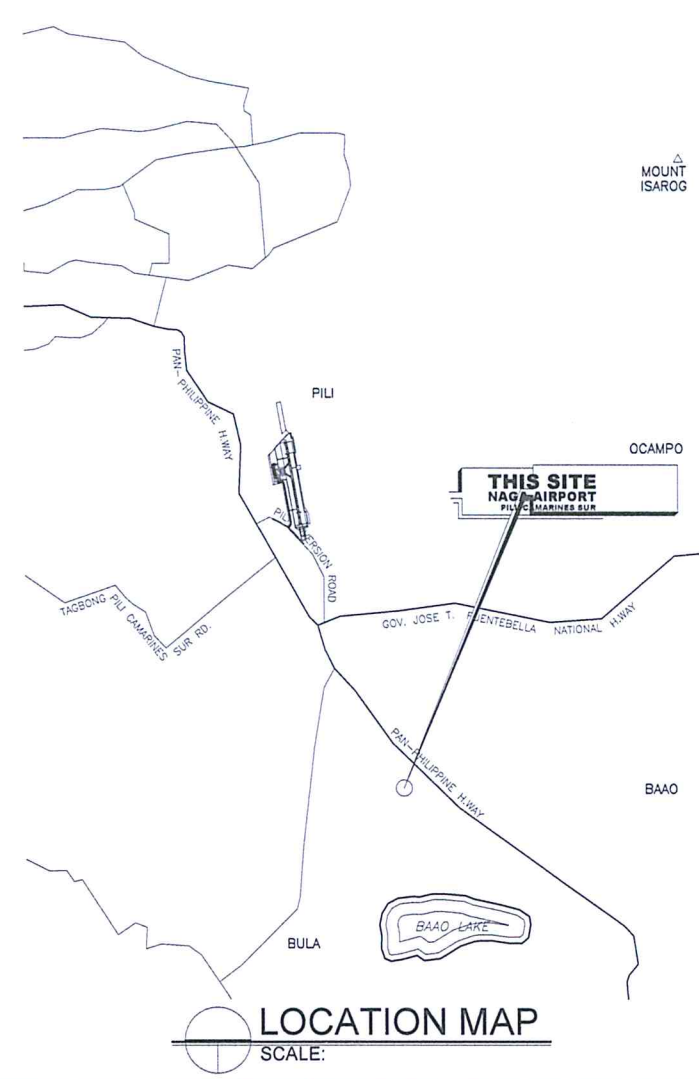


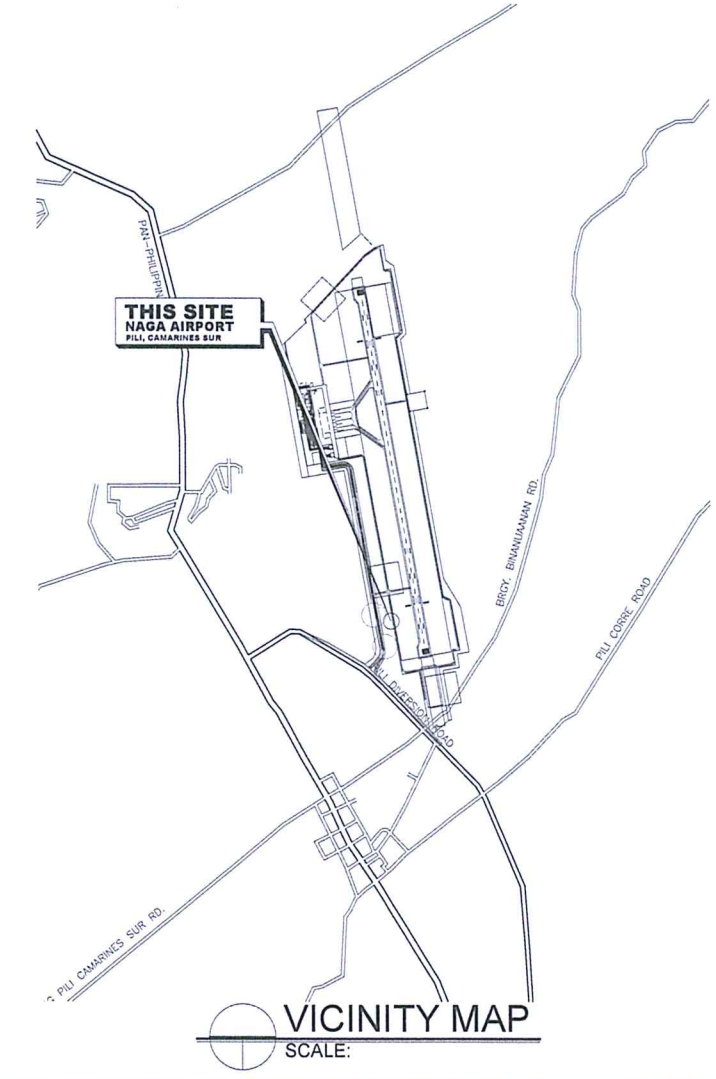
Philippines



PROJECT LOCATION
SCALE:



LOCATION MAP
SCALE:



VICINITY MAP
SCALE:



EXISTING NAGA AIRPORT AERIAL VIEW
SCALE:



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1505 PASAY CITY

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	
REVIEWED BY:	

CHECKED BY:

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Division Chief III, IDDD-AED

SUBMITTED BY:

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Department Manager III, AED-ADMS

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LT COL VALENTINO A. DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:

LT GEN RAUL L. DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:

CAPTAIN JIM C. SYDONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

PROJECT:

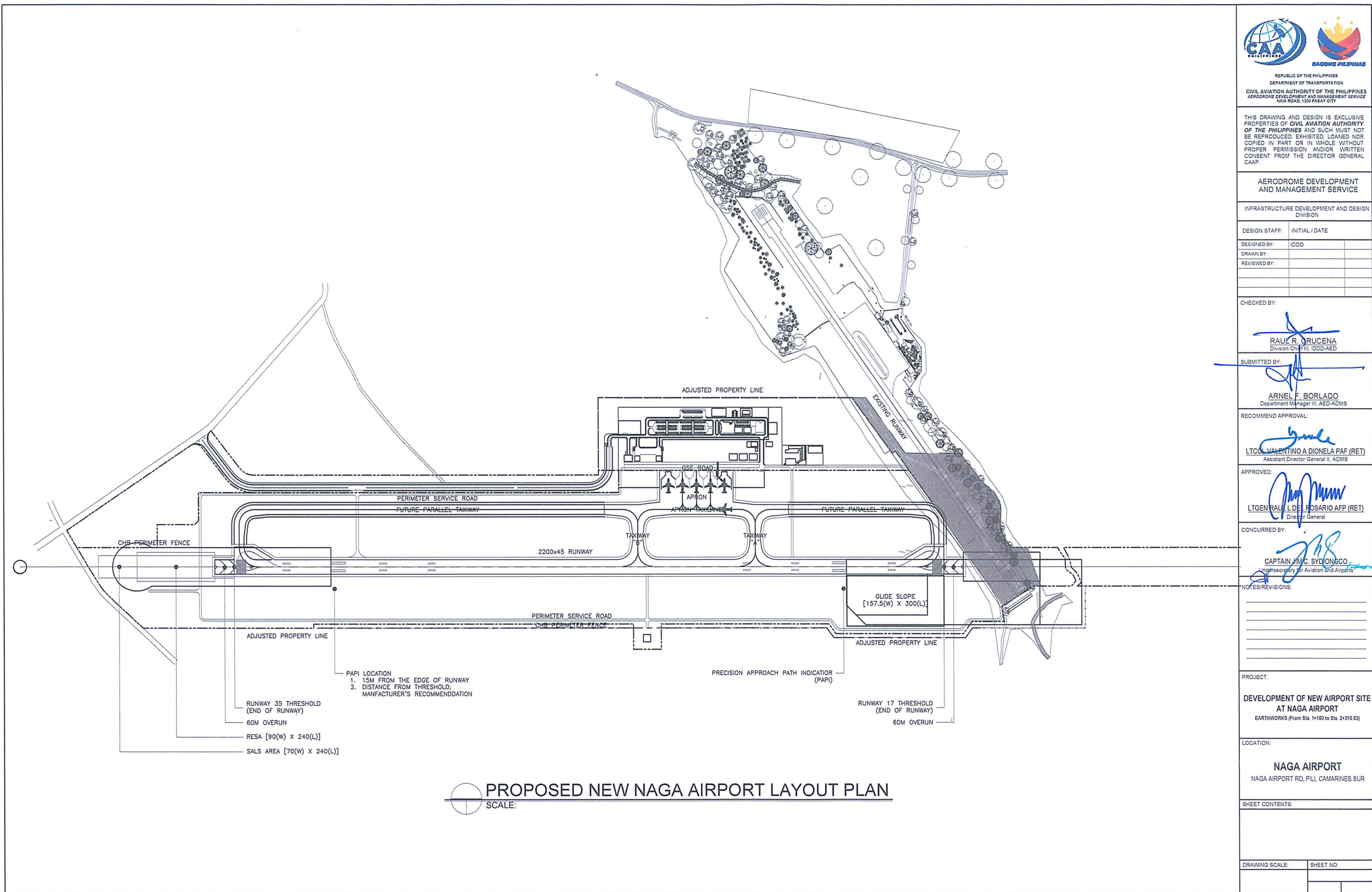
DEVELOPMENT OF NEW AIRPORT SITE AT NAGA AIRPORT
EARTHWORKS (From Sta. 1+100 to Sta. 2+310.83)

LOCATION:

NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE
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DRAWN BY:
REVIEWED BY:

CHECKED BY:

RAUL R. ORCENA
Division Chief, IDDD-AED

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:

LTCOL VALENTINO A. DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:

LTGEN RAUL L. DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:

CAPTAIN JIM C. SYDONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

PROJECT:

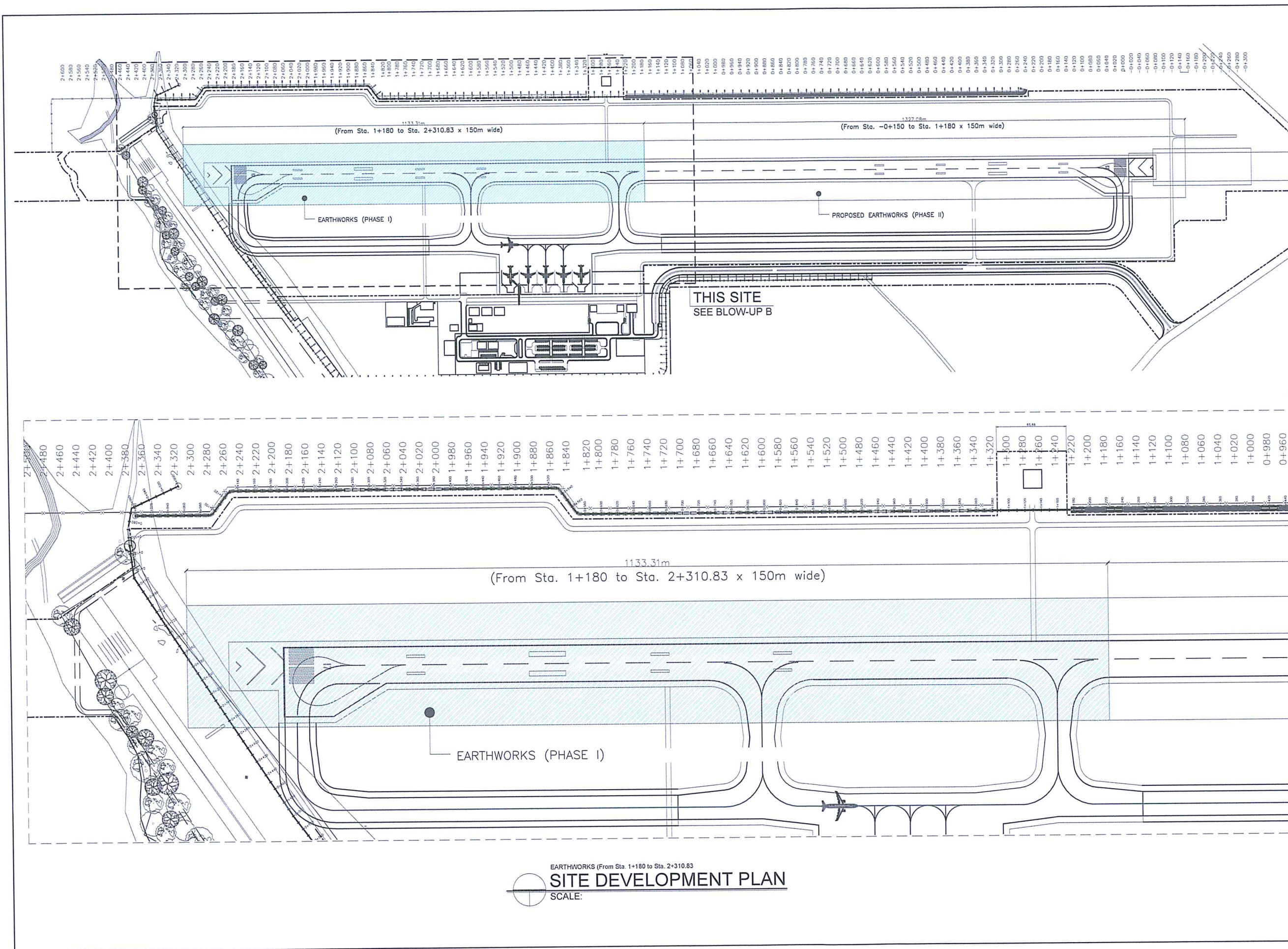
DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (From Sta. 1+160 to Sta. 2+310.83)

LOCATION:

NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:

DRAWING SCALE: SHEET NO:





REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
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NAGA ROAD, 1500 PASAY CITY

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

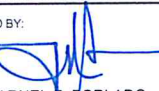
INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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RAUL R. CRUCENA
Division Chief III, IDDD-AED

SUBMITTED BY:


ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:


LT COL VALENTINO A. DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:

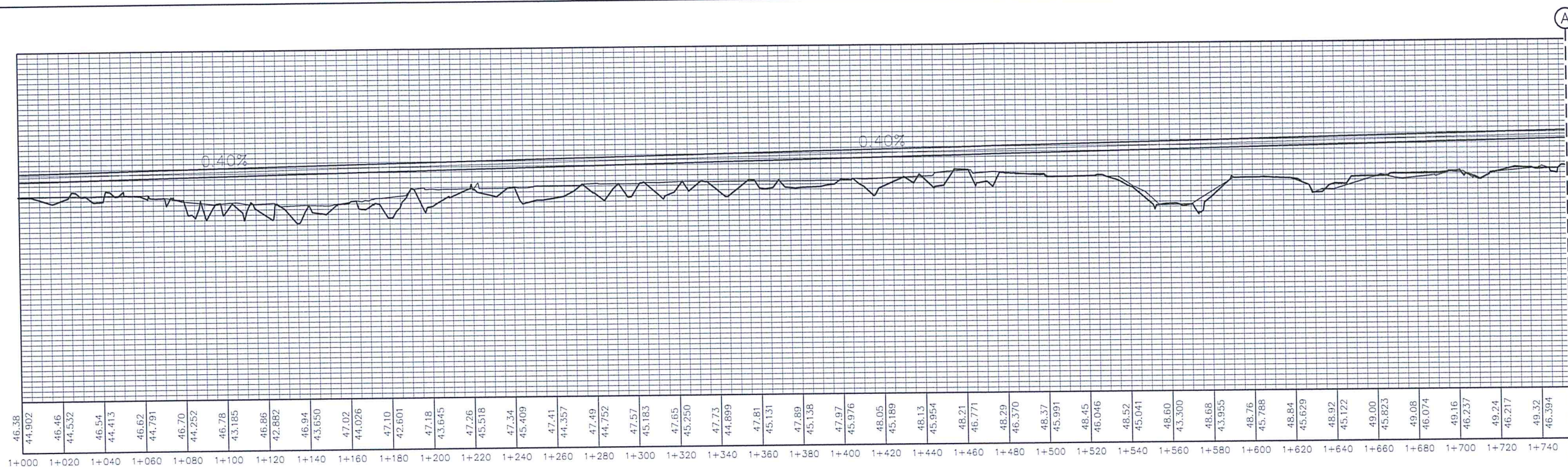

LT GEN RAUL L. DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:


CAPTAIN JIM C. SYDONENCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

PROJECT:
DEVELOPMENT OF NEW AIRPORT SITE AT NAGA AIRPORT EARTHWORKS (From Sta. 1+180 to Sta. 2+310.83)
LOCATION:
NAGA AIRPORT NAGA AIRPORT RD, PILI, CAMARINES SUR
SHEET CONTENTS:
SITE DEVELOPMENT PLAN
DRAWING SCALE:
AS SHOWN
SHEET NO.



REPUBLIC OF THE PHILIPPINES
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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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Department Manager III, AED-ADMS

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LTGEN RAUL L DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:

CAPTAIN JIM O SYDIONCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS

PROJECT:

DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (From Sta. 1+180 to Sta. 2+310.83)

LOCATION:

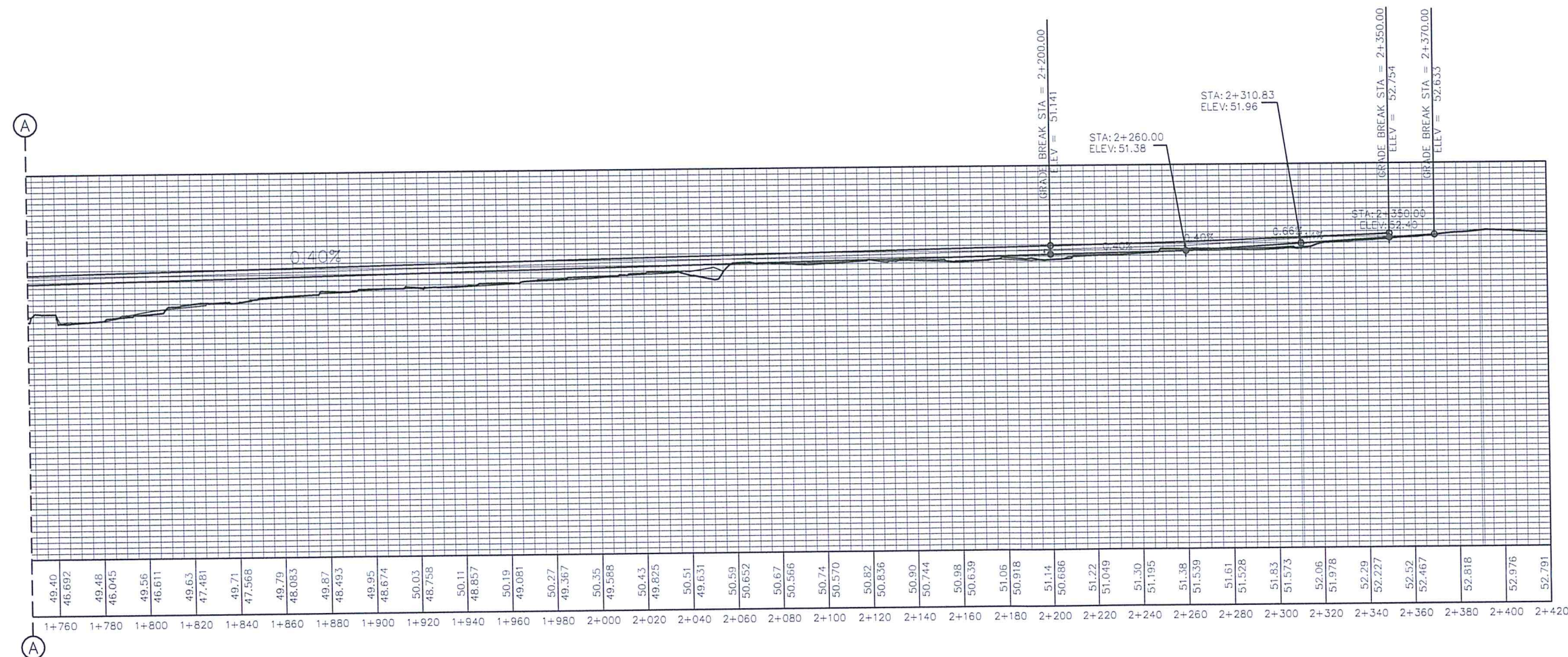
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:

RUNWAY CENTERLINE PROFILE
From Sta. -0+320 to Sta. 1+200

DRAWING SCALE:

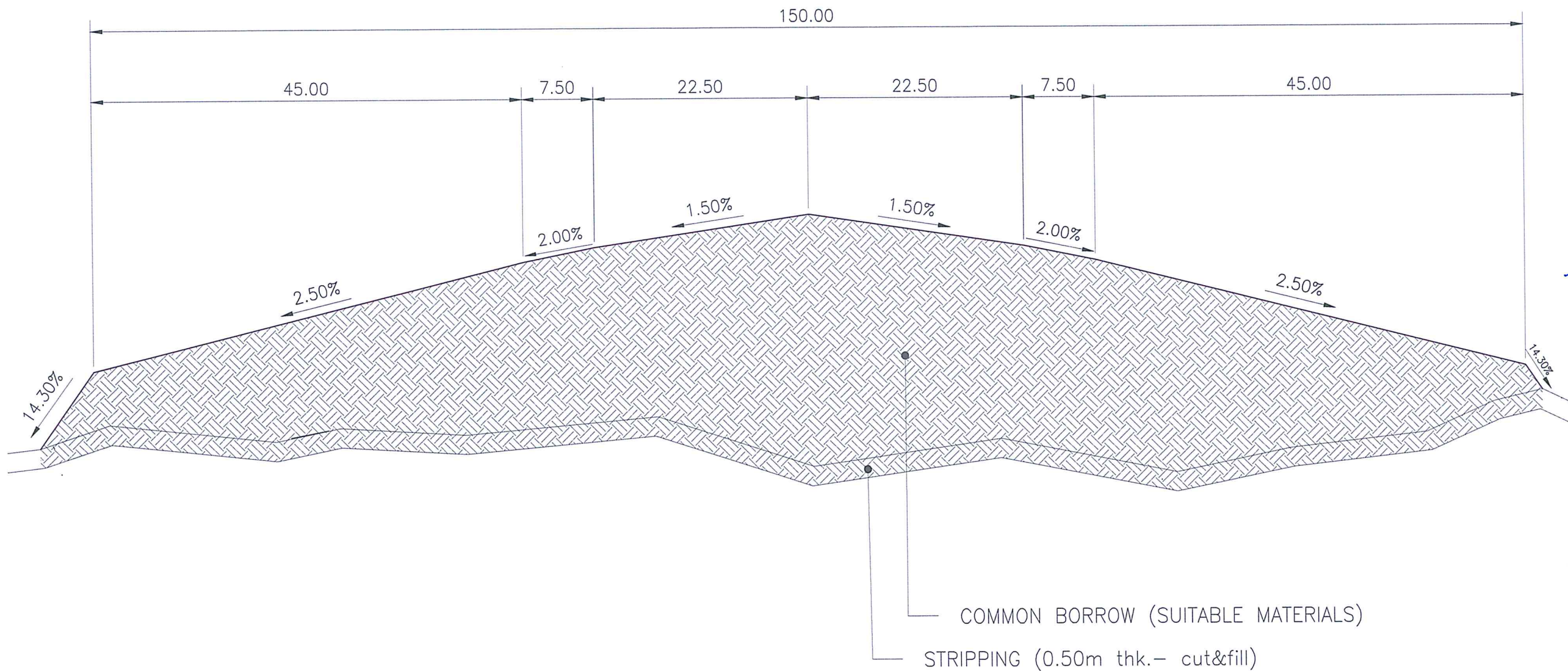
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2 RUNWAY CENTERLINE PROFILE

SCALE:

1:125M



EARTHWORKS (From Sta. 1+180 to Sta. 2+310.83)
RUNWAY STRIP TYPICAL SECTION
 SCALE: _____ NTS

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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LTGEN RAY L. DEL ROSARIO AFP (RET)
 Director General

CONCURRED BY:


CAPTAIN JIM C. SYDIONGCO
 Undersecretary for Aviation and Airports

NOTES/REVISIONS:

PROJECT:

DEVELOPMENT OF NEW AIRPORT SITE AT NAGA AIRPORT
 EARTHWORKS (From Sta. 1+180 to Sta. 2+310.83)

LOCATION:

NAGA AIRPORT
 NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:

RUNWAY STRIP TYPICAL SECTION

DRAWING SCALE:	SHEET NO.:
AS SHOWN	



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AERODROME DEVELOPMENT
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INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

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DRAWN BY:

REVIEWED BY:

CHECKED BY:

RAUL R. CRUCENA
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Assistant Director General II, ADMS

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Director General

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Secretary for Aviation and Airports

NOTES/REVISIONS:

PROJECT

DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION

NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAVARINES SUR

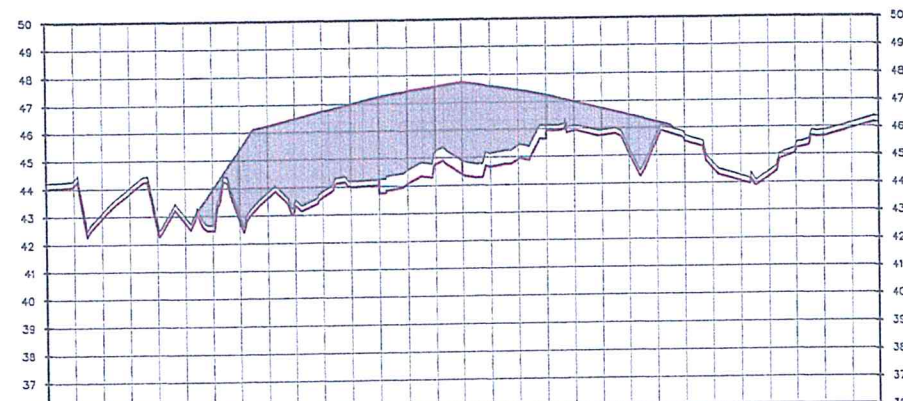
SHEET CONTENTS

RUNWAY CROSS-SECTIONS
From Sta. 1+340 to 1+400

DRAWING SCALE: SHEET NO:

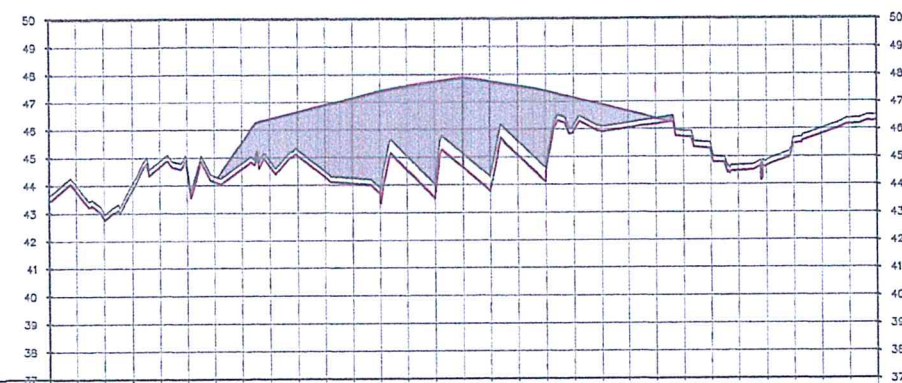
AS SHOWN

1+340.00



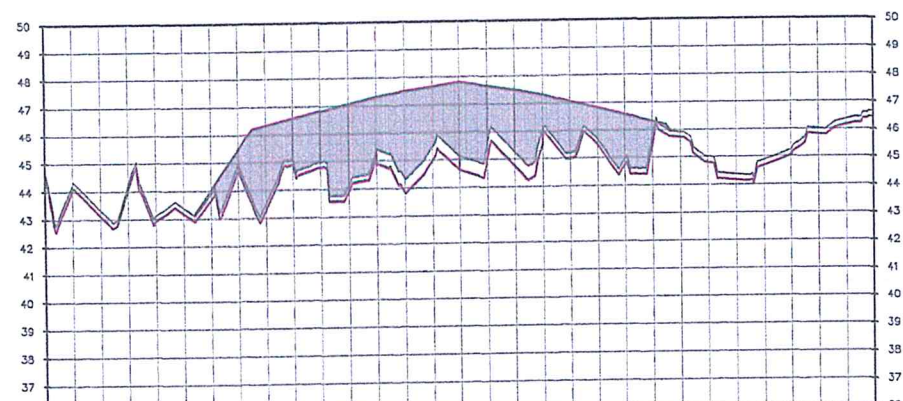
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EXISTING ELEVATIONS	44.65	44.34	43.14	44.05	42.77	42.08	43.05	42.68	45.40	46.24	46.49	46.74	46.99	47.24	47.43	47.59	47.73	47.58	47.43	46.99	46.74	46.49	46.24	45.75	44.73	44.40	44.26	44.00	43.37	45.65
OFFSET	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290

1+380.00



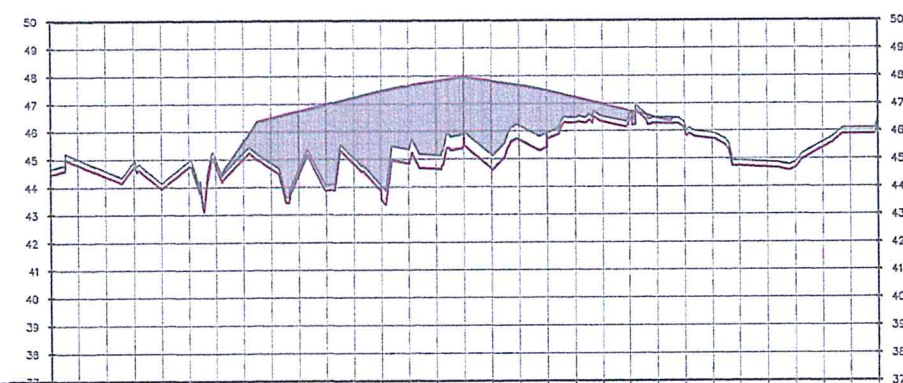
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EXISTING ELEVATIONS	44.65	44.34	43.14	44.05	42.77	42.08	43.05	42.68	45.40	46.24	46.49	46.74	46.99	47.24	47.43	47.59	47.73	47.58	47.43	46.99	46.74	46.49	46.24	45.75	44.73	44.40	44.26	44.00	43.37	45.65
OFFSET	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290

1+360.00



PROPOSED ELEVATIONS	44.65	44.34	43.14	44.05	42.77	42.08	43.05	42.68	45.40	46.24	46.49	46.74	46.99	47.24	47.43	47.59	47.73	47.58	47.43	46.99	46.74	46.49	46.24	45.75	44.73	44.40	44.26	44.00	43.37	45.65
EXISTING ELEVATIONS	44.65	44.34	43.14	44.05	42.77	42.08	43.05	42.68	45.40	46.24	46.49	46.74	46.99	47.24	47.43	47.59	47.73	47.58	47.43	46.99	46.74	46.49	46.24	45.75	44.73	44.40	44.26	44.00	43.37	45.65
OFFSET	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290

1+400.00



PROPOSED ELEVATIONS	44.65	44.34	43.14	44.05	42.77	42.08	43.05	42.68	45.40	46.24	46.49	46.74	46.99	47.24	47.43	47.59	47.73	47.58	47.43	46.99	46.74	46.49	46.24	45.75	44.73	44.40	44.26	44.00	43.37	45.65
EXISTING ELEVATIONS	44.65	44.34	43.14	44.05	42.77	42.08	43.05	42.68	45.40	46.24	46.49	46.74	46.99	47.24	47.43	47.59	47.73	47.58	47.43	46.99	46.74	46.49	46.24	45.75	44.73	44.40	44.26	44.00	43.37	45.65
OFFSET	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290

RUNWAY CROSS-SECTIONS
SCALE: 1:1500



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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE
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REVIEWED BY:

CHECKED BY:

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Assistant Director General II, ADMS

APPROVED:
LT GEN RAUL L. DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:
CAPTAIN JIM C. SYDIONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

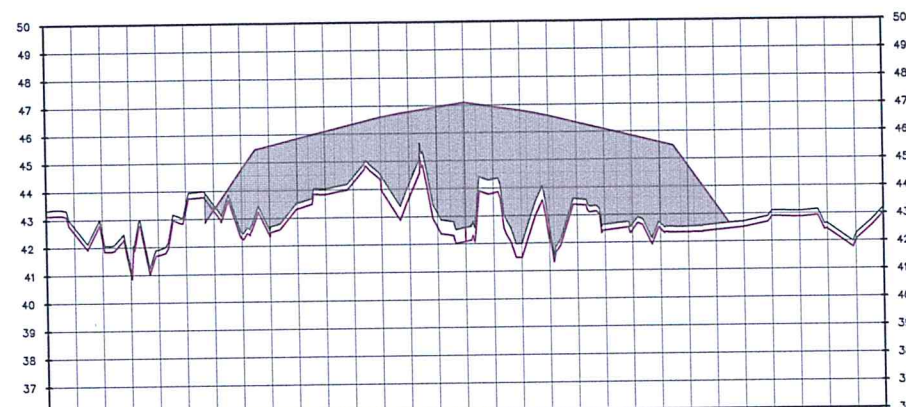
PROJECT:
DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:
RUNWAY CROSS-SECTIONS
From Sta. 1+180 to 1+240

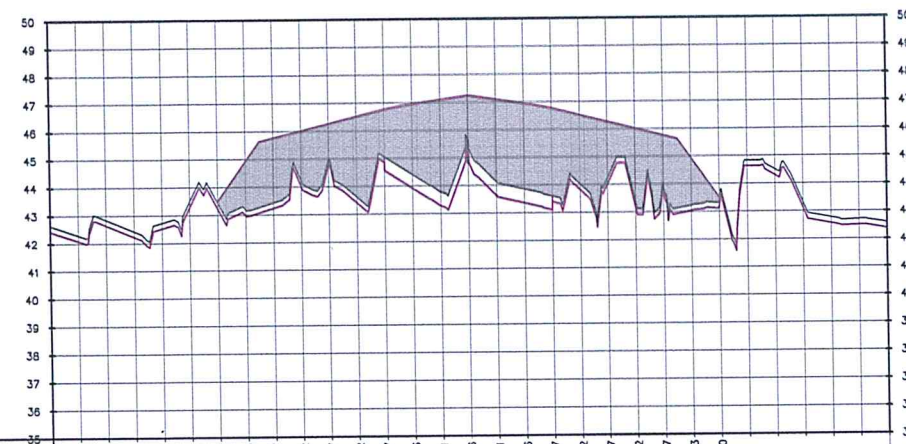
DRAWING SCALE: AS SHOWN
SHEET NO:

1+180.00



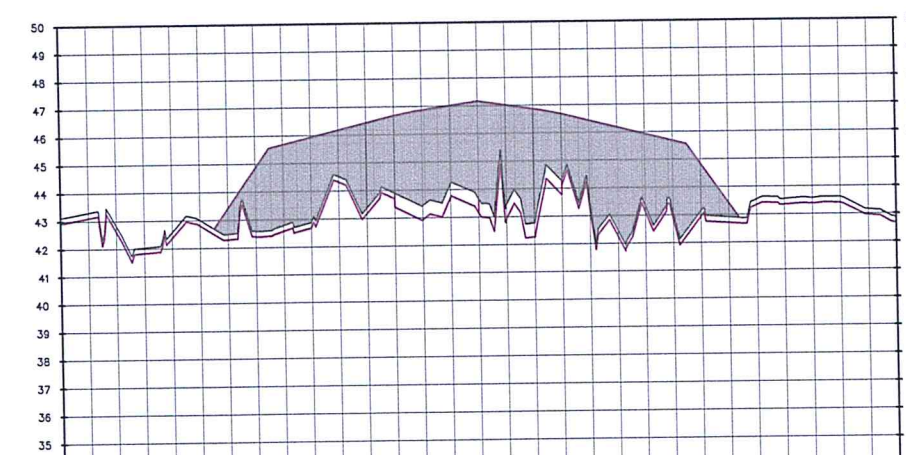
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EXISTING ELEVATIONS	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
OFFSET	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

1+220.00



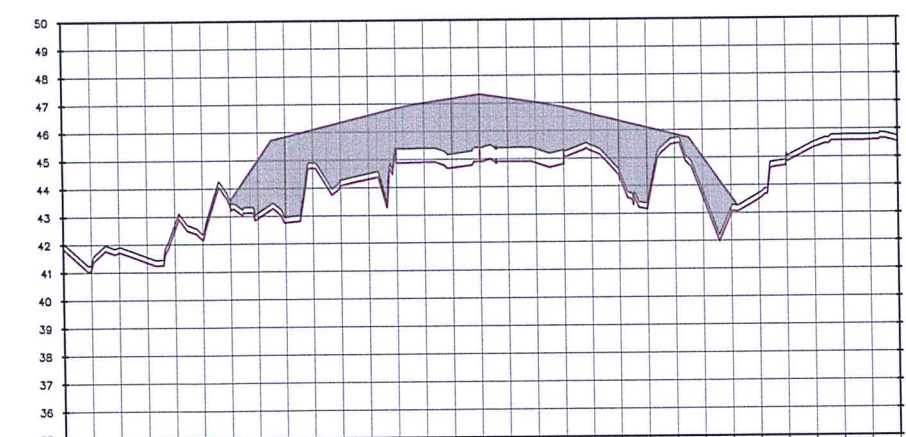
PROPOSED ELEVATIONS	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
OFFSET	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

1+200.00



PROPOSED ELEVATIONS	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
OFFSET	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

1+240.00



PROPOSED ELEVATIONS	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
OFFSET	156.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

 **RUNWAY CROSS-SECTIONS**
SCALE: 1:1500



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NAIA ROAD, 1505 PASAY CITY

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AERODROME DEVELOPMENT
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INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

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CHECKED BY:

RAUL R. ORCENA
Division Chief III, IODD-AED

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:

LT COL VALENTINO A DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:

LT GEN RAUL L DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:

CAPTAIN JIMC SYDONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS

PROJECT:

DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:

NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

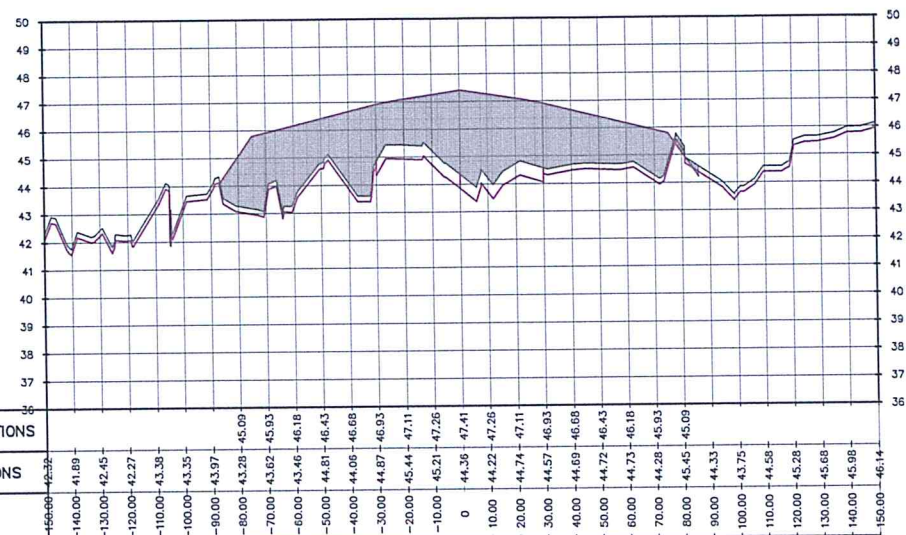
SHEET CONTENTS

RUNWAY CROSS-SECTIONS
From Sta. 1+260 to 1+320

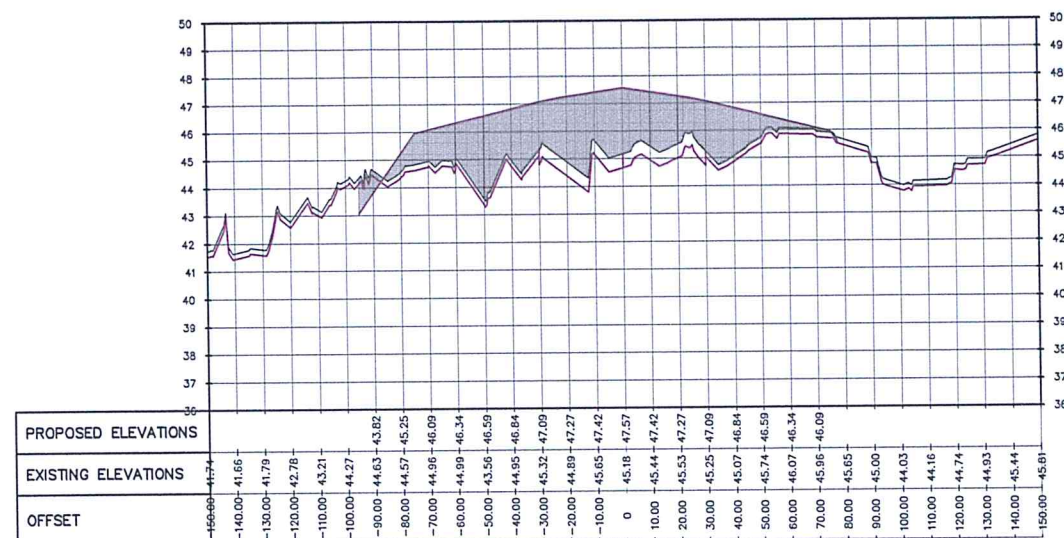
DRAWING SCALE: SHEET NO:

AS SHOWN

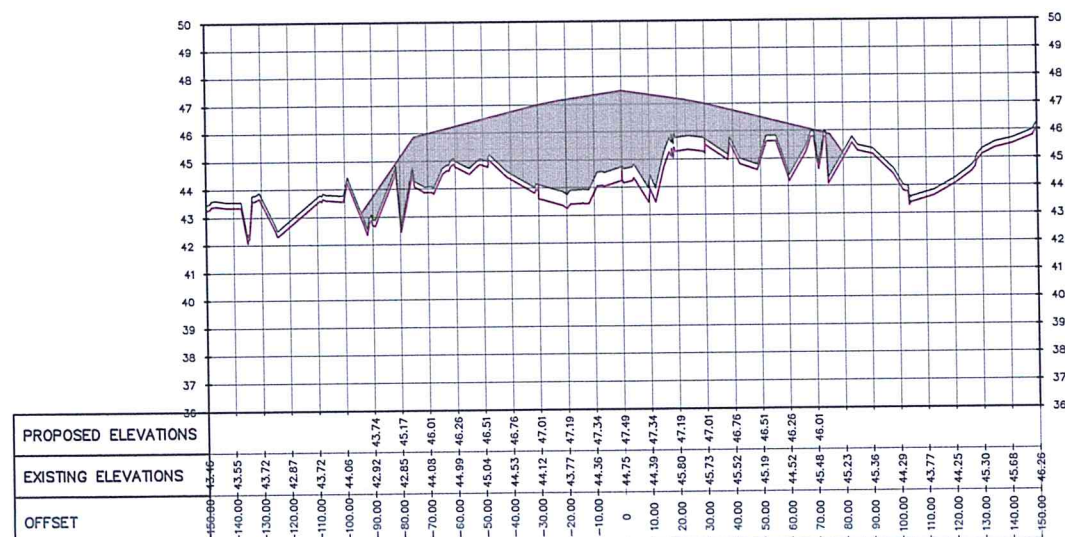
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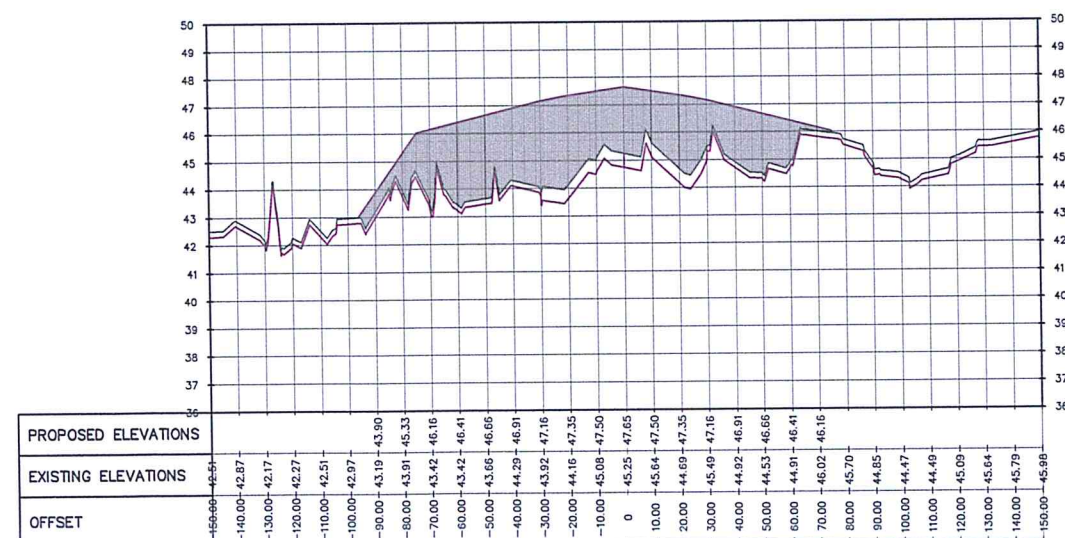
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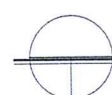


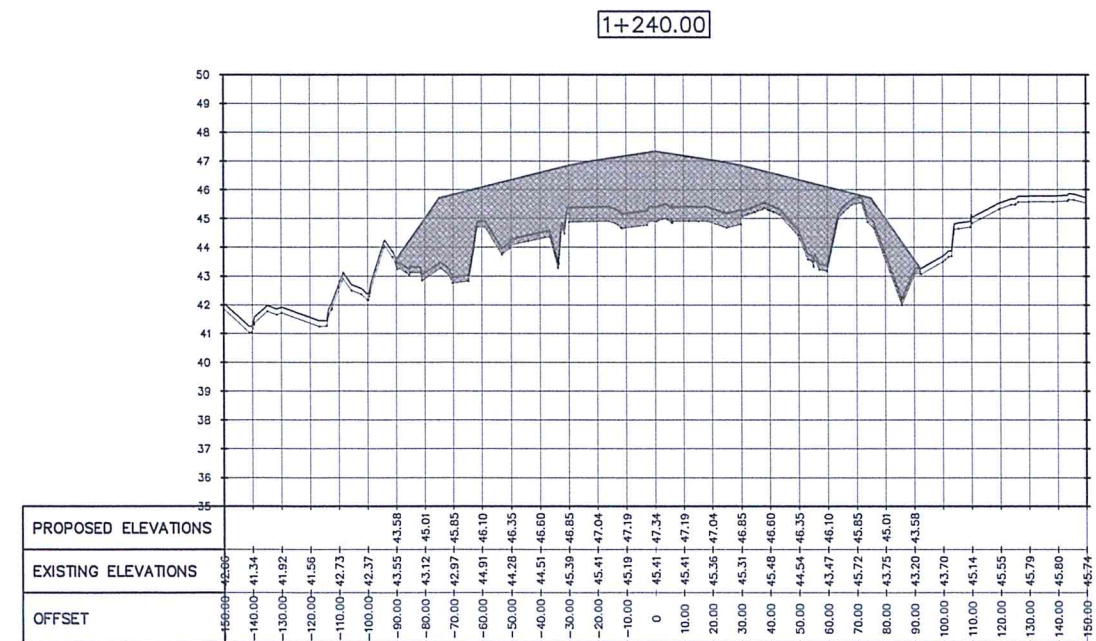
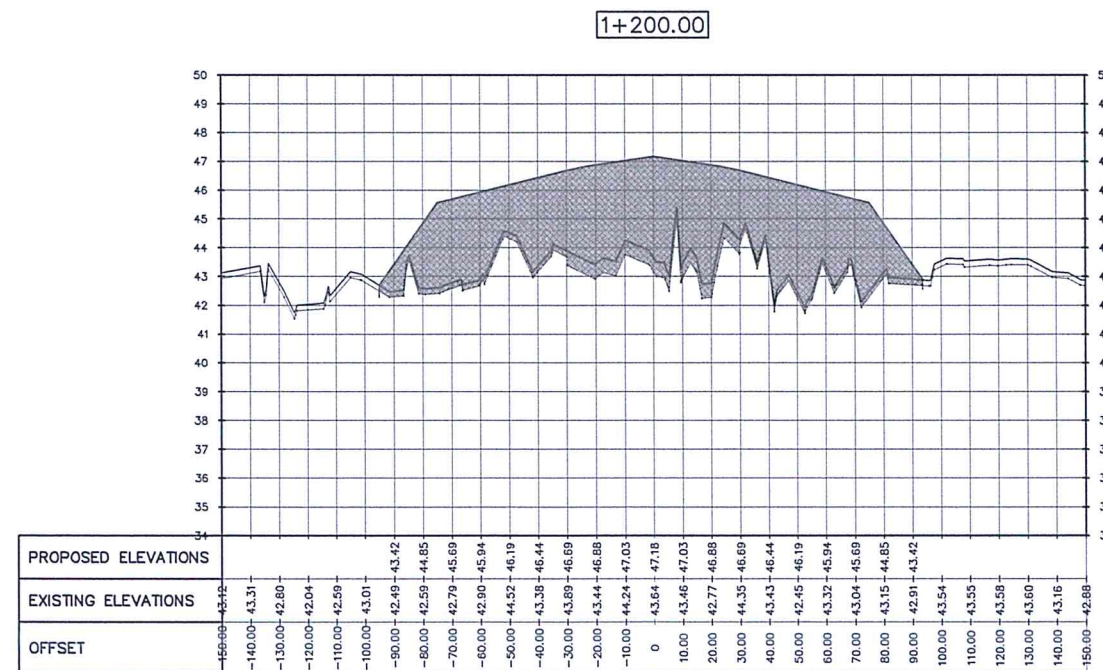
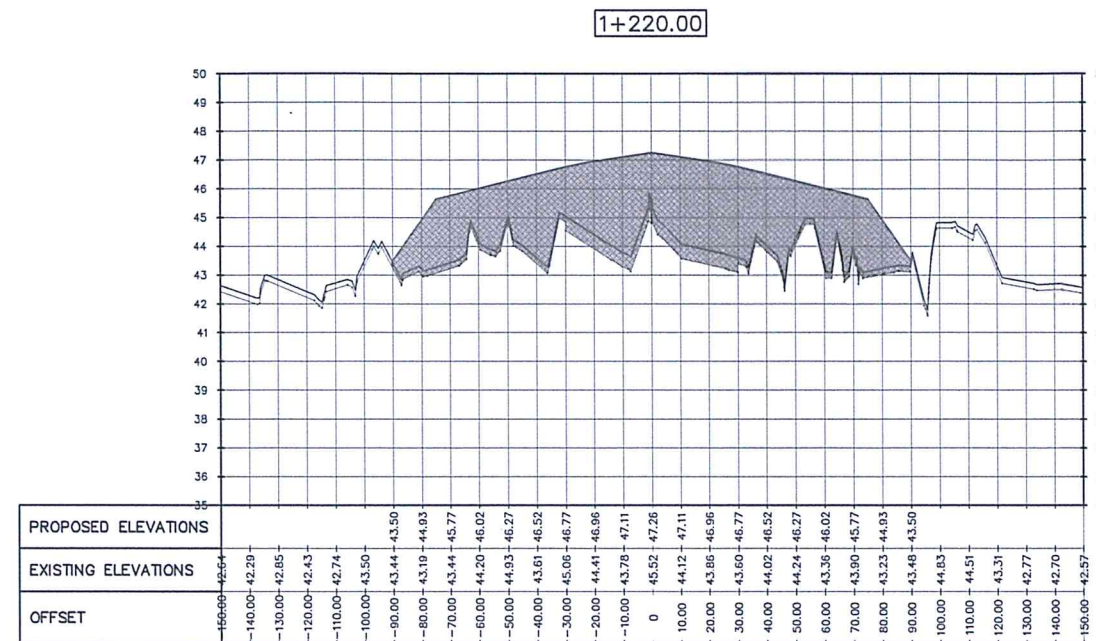
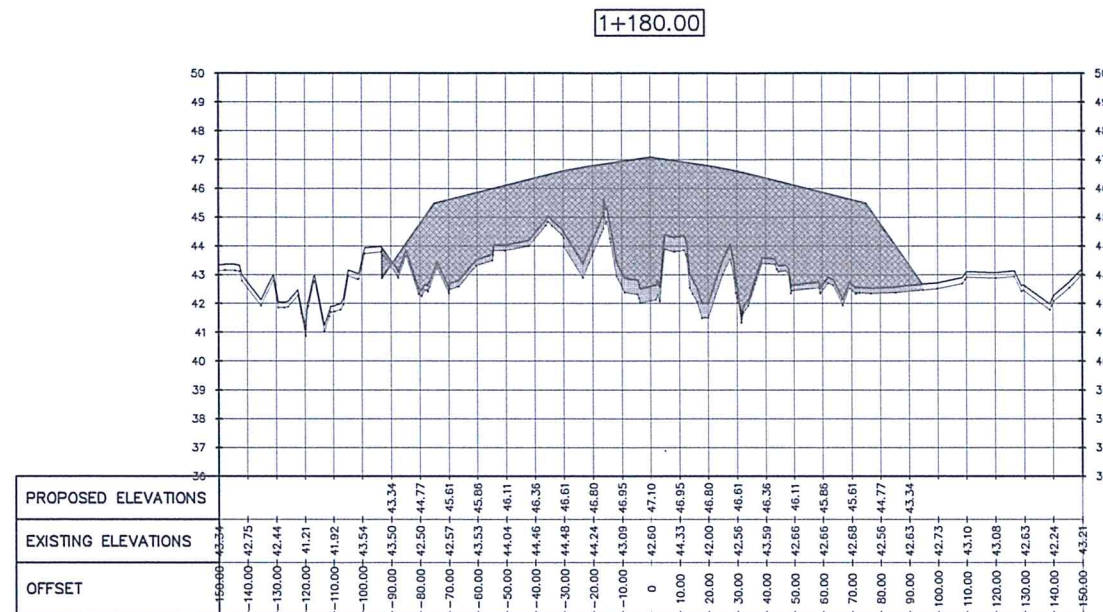
1+280.00



1+320.00



 **RUNWAY CROSS-SECTIONS**
SCALE: 1:1500



From Sta. 1+180 to Sta. 1+240
RUNWAY CROSS-SECTIONS
 SCALE: 1:1400



REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
 AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
 NAIA ROAD, 1305 PASAY CITY

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF: INITIAL / DATE

DESIGNED BY: IDDD

DRAWN BY:

REVIEWED BY:

CHECKED BY:

RAUL R. CRUCENA
 Division Chief III, IDDD-AED

SUBMITTED BY:

ARNEL F. BORLADO
 Department Manager III, AED-ADMS

RECOMMEND APPROVAL:

LTCOL VALENTINO A. DIONELA PAF (RET)
 Assistant Director General II, ADMS

APPROVED:

LTGEN RAUL L. DEL ROSARIO AFP (RET)
 Director General

CONCURRED BY:

CAPTAIN J.M.C. B. DIONGCO
 Undersecretary for Aviation and Airports

NOTES/REVISIONS:

PROJECT:

DEVELOPMENT OF NEW AIRPORT SITE AT NAGA AIRPORT
 EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:

NAGA AIRPORT
 NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:

RUNWAY CROSS-SECTIONS
 From Sta. 1+180 to 1+240

DRAWING SCALE: SHEET NO:

AS SHOWN



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DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAGA ROAD, 1305 PASAY CITY

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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

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Division Chief III, DDD-AED

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Department Manager III, AED-ADMS

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Assistant Director General II, ADMS

APPROVED:

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Director General

CONCURRED BY:

CAPTAIN JMC SYDONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

PROJECT:

DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:

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NAGA AIRPORT RD, PILI, CAMARINES SUR

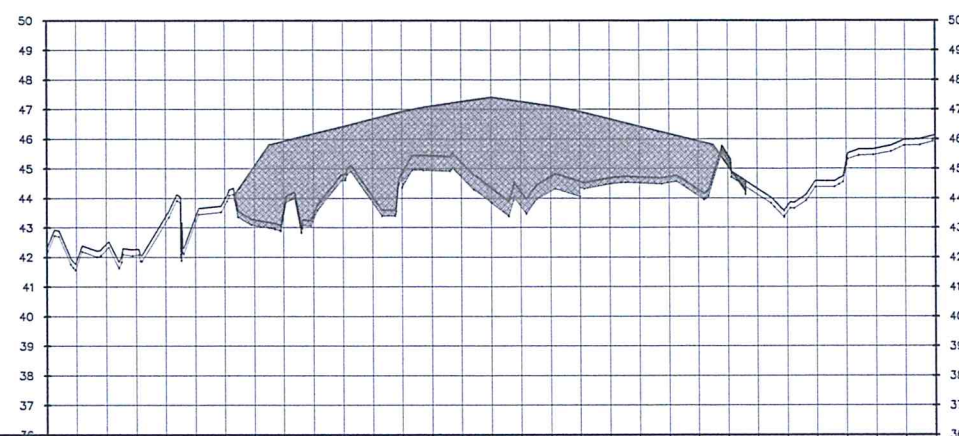
SHEET CONTENTS:

RUNWAY CROSS-SECTIONS
From Sta. 1+260 to 1+320

DRAWING SCALE: SHEET NO.

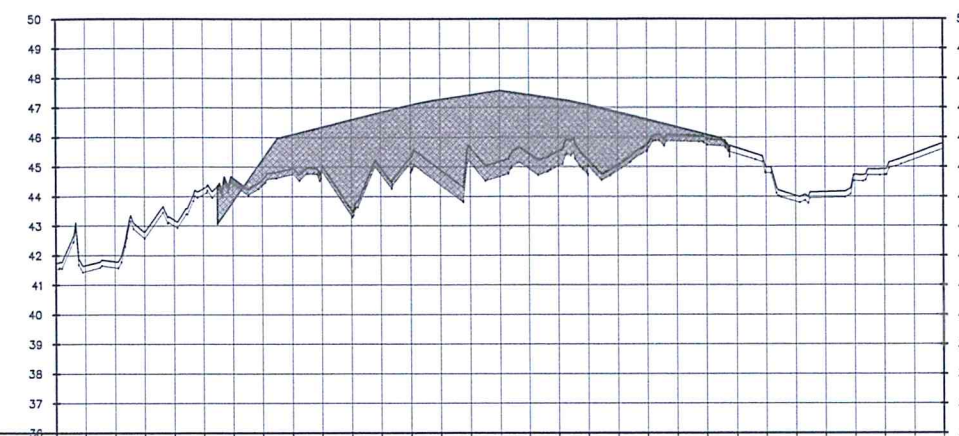
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1+260.00



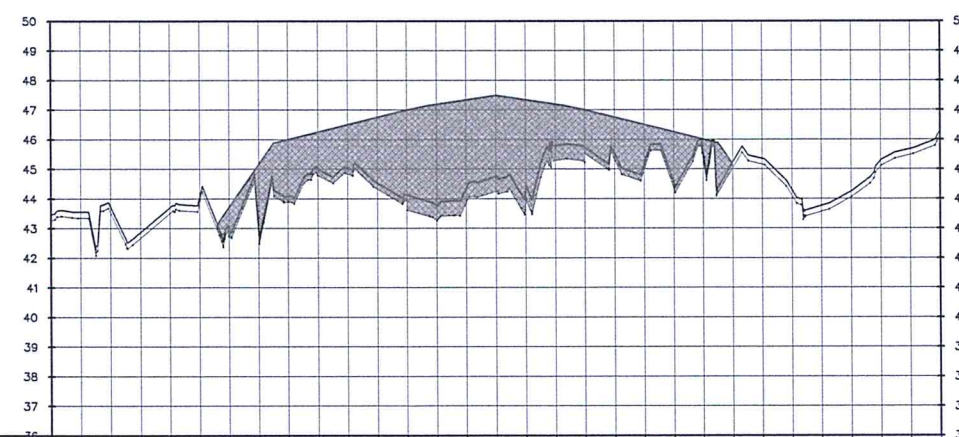
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EXISTING ELEVATIONS	156.00 - 42.39	140.00 - 41.89	130.00 - 42.45	120.00 - 42.27	110.00 - 43.39	100.00 - 43.35	90.00 - 43.97	80.00 - 43.28	70.00 - 43.62	60.00 - 43.46	50.00 - 44.81	40.00 - 44.06	30.00 - 44.87	20.00 - 45.44	10.00 - 45.21	0	44.36	47.41	10.00 - 44.22	20.00 - 44.74	30.00 - 44.57	40.00 - 44.69	50.00 - 44.72	60.00 - 44.73	70.00 - 44.28	80.00 - 45.45	90.00 - 44.33	100.00 - 43.75	110.00 - 44.58	120.00 - 45.26	130.00 - 45.68	140.00 - 45.98	150.00 - 46.14
OFFSET	156.00 - 42.39	140.00 - 41.89	130.00 - 42.45	120.00 - 42.27	110.00 - 43.39	100.00 - 43.35	90.00 - 43.97	80.00 - 43.28	70.00 - 43.62	60.00 - 43.46	50.00 - 44.81	40.00 - 44.06	30.00 - 44.87	20.00 - 45.44	10.00 - 45.21	0	44.36	47.41	10.00 - 44.22	20.00 - 44.74	30.00 - 44.57	40.00 - 44.69	50.00 - 44.72	60.00 - 44.73	70.00 - 44.28	80.00 - 45.45	90.00 - 44.33	100.00 - 43.75	110.00 - 44.58	120.00 - 45.26	130.00 - 45.68	140.00 - 45.98	150.00 - 46.14

1+300.00



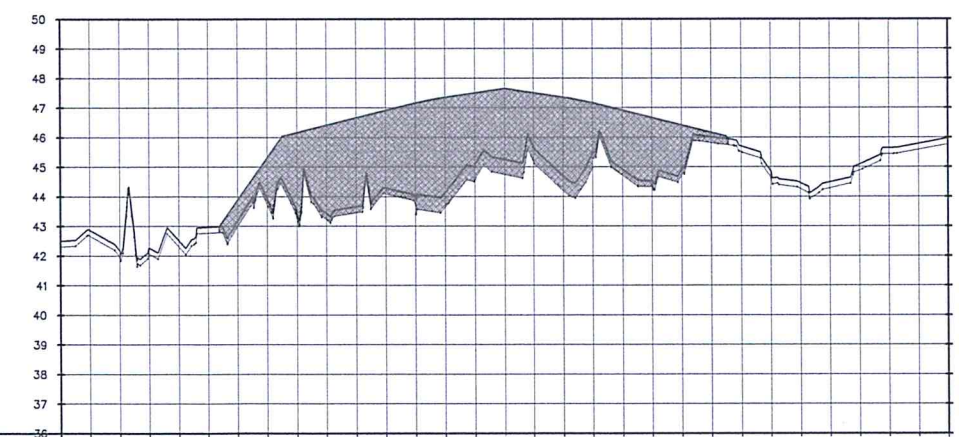
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EXISTING ELEVATIONS	156.00 - 41.74	140.00 - 41.66	130.00 - 41.79	120.00 - 42.76	110.00 - 43.21	100.00 - 44.27	90.00 - 44.63	80.00 - 44.57	70.00 - 44.96	60.00 - 44.99	50.00 - 43.58	40.00 - 44.95	30.00 - 45.32	20.00 - 44.89	10.00 - 45.65	0	45.18	47.57	10.00 - 45.44	20.00 - 45.53	30.00 - 45.25	40.00 - 45.07	50.00 - 45.74	60.00 - 46.07	70.00 - 45.96	80.00 - 45.65	90.00 - 45.00	100.00 - 44.03	110.00 - 44.16	120.00 - 44.74	130.00 - 44.93	140.00 - 45.44	150.00 - 45.91
OFFSET	156.00 - 41.74	140.00 - 41.66	130.00 - 41.79	120.00 - 42.76	110.00 - 43.21	100.00 - 44.27	90.00 - 44.63	80.00 - 44.57	70.00 - 44.96	60.00 - 44.99	50.00 - 43.58	40.00 - 44.95	30.00 - 45.32	20.00 - 44.89	10.00 - 45.65	0	45.18	47.57	10.00 - 45.44	20.00 - 45.53	30.00 - 45.25	40.00 - 45.07	50.00 - 45.74	60.00 - 46.07	70.00 - 45.96	80.00 - 45.65	90.00 - 45.00	100.00 - 44.03	110.00 - 44.16	120.00 - 44.74	130.00 - 44.93	140.00 - 45.44	150.00 - 45.91

1+280.00



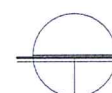
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EXISTING ELEVATIONS	156.00 - 42.46	140.00 - 43.55	130.00 - 43.72	120.00 - 42.87	110.00 - 43.72	100.00 - 44.06	90.00 - 42.92	80.00 - 42.85	70.00 - 44.08	60.00 - 44.99	50.00 - 45.04	40.00 - 44.53	30.00 - 44.12	20.00 - 43.77	10.00 - 44.36	0	44.75	47.49	10.00 - 44.39	20.00 - 45.80	30.00 - 45.73	40.00 - 45.52	50.00 - 45.19	60.00 - 44.52	70.00 - 45.48	80.00 - 45.23	90.00 - 45.36	100.00 - 44.29	110.00 - 43.77	120.00 - 44.25	130.00 - 45.30	140.00 - 45.68	150.00 - 46.26
OFFSET	156.00 - 42.46	140.00 - 43.55	130.00 - 43.72	120.00 - 42.87	110.00 - 43.72	100.00 - 44.06	90.00 - 42.92	80.00 - 42.85	70.00 - 44.08	60.00 - 44.99	50.00 - 45.04	40.00 - 44.53	30.00 - 44.12	20.00 - 43.77	10.00 - 44.36	0	44.75	47.49	10.00 - 44.39	20.00 - 45.80	30.00 - 45.73	40.00 - 45.52	50.00 - 45.19	60.00 - 44.52	70.00 - 45.48	80.00 - 45.23	90.00 - 45.36	100.00 - 44.29	110.00 - 43.77	120.00 - 44.25	130.00 - 45.30	140.00 - 45.68	150.00 - 46.26

1+320.00



PROPOSED ELEVATIONS	156.00 - 42.51	140.00 - 42.87	130.00 - 42.17	120.00 - 42.27	110.00 - 42.51	100.00 - 42.97	90.00 - 43.19	80.00 - 43.91	70.00 - 43.42	60.00 - 43.42	50.00 - 43.66	40.00 - 44.29	30.00 - 43.92	20.00 - 44.16	10.00 - 45.08	0	45.25	47.65	10.00 - 45.64	20.00 - 44.69	30.00 - 45.49	40.00 - 44.92	50.00 - 44.53	60.00 - 44.91	70.00 - 46.02	80.00 - 45.70	90.00 - 44.85	100.00 - 44.47	110.00 - 44.49	120.00 - 45.09	130.00 - 45.64	140.00 - 45.79	150.00 - 45.98
EXISTING ELEVATIONS	156.00 - 42.51	140.00 - 42.87	130.00 - 42.17	120.00 - 42.27	110.00 - 42.51	100.00 - 42.97	90.00 - 43.19	80.00 - 43.91	70.00 - 43.42	60.00 - 43.42	50.00 - 43.66	40.00 - 44.29	30.00 - 43.92	20.00 - 44.16	10.00 - 45.08	0	45.25	47.65	10.00 - 45.64	20.00 - 44.69	30.00 - 45.49	40.00 - 44.92	50.00 - 44.53	60.00 - 44.91	70.00 - 46.02	80.00 - 45.70	90.00 - 44.85	100.00 - 44.47	110.00 - 44.49	120.00 - 45.09	130.00 - 45.64	140.00 - 45.79	150.00 - 45.98
OFFSET	156.00 - 42.51	140.00 - 42.87	130.00 - 42.17	120.00 - 42.27	110.00 - 42.51	100.00 - 42.97	90.00 - 43.19	80.00 - 43.91	70.00 - 43.42	60.00 - 43.42	50.00 - 43.66	40.00 - 44.29	30.00 - 43.92	20.00 - 44.16	10.00 - 45.08	0	45.25	47.65	10.00 - 45.64	20.00 - 44.69	30.00 - 45.49	40.00 - 44.92	50.00 - 44.53	60.00 - 44.91	70.00 - 46.02	80.00 - 45.70	90.00 - 44.85	100.00 - 44.47	110.00 - 44.49	120.00 - 45.09	130.00 - 45.64	140.00 - 45.79	150.00 - 45.98

From Sta. 1+260 to Sta. 1+320

 **RUNWAY CROSS-SECTIONS**
SCALE: 1:1400



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INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE
DESIGNED BY: IDDD
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REVIEWED BY:

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RAUL R. CRUCENA
Division Chief III, AED-ADM

SUBMITTED BY:

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Department Manager III, AED-ADM

RECOMMEND APPROVAL

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Assistant Director General II, ADM

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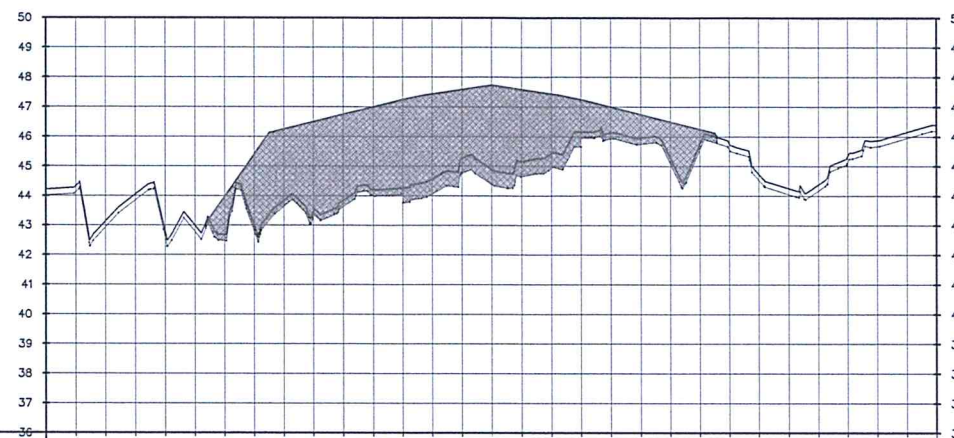
SHEET CONTENTS:

RUNWAY CROSS-SECTIONS
From Sta. 1+340 to 1+400

DRAWING SCALE: SHEET NO:

AS SHOWN

1+340.00



PROPOSED ELEVATIONS	44.22	44.34	44.14	44.05	42.77	42.98	43.98	45.40	46.24	46.49	46.74	46.99	47.24	47.43	47.58	47.73	47.88	48.03	48.18	48.33	48.48	48.63	48.78	48.93	49.08	49.23	49.38	49.53	49.68	49.83	49.98	50.13	50.28	50.43	50.58	50.73	50.88	51.03	51.18	51.33	51.48	51.63	51.78	51.93	52.08	52.23	52.38	52.53	52.68	52.83	52.98	53.13	53.28	53.43	53.58	53.73	53.88	54.03	54.18	54.33	54.48	54.63	54.78	54.93	55.08	55.23	55.38	55.53	55.68	55.83	55.98	56.13	56.28	56.43	56.58	56.73	56.88	57.03	57.18	57.33	57.48	57.63	57.78	57.93	58.08	58.23	58.38	58.53	58.68	58.83	58.98	59.13	59.28	59.43	59.58	59.73	59.88	60.03	60.18	60.33	60.48	60.63	60.78	60.93	61.08	61.23	61.38	61.53	61.68	61.83	61.98	62.13	62.28	62.43	62.58	62.73	62.88	63.03	63.18	63.33	63.48	63.63	63.78	63.93	64.08	64.23	64.38	64.53	64.68	64.83	64.98	65.13	65.28	65.43	65.58	65.73	65.88	66.03	66.18	66.33	66.48	66.63	66.78	66.93	67.08	67.23	67.38	67.53	67.68	67.83	67.98	68.13	68.28	68.43	68.58	68.73	68.88	69.03	69.18	69.33	69.48	69.63	69.78	69.93	70.08	70.23	70.38	70.53	70.68	70.83	70.98	71.13	71.28	71.43	71.58	71.73	71.88	72.03	72.18	72.33	72.48	72.63	72.78	72.93	73.08	73.23	73.38	73.53	73.68	73.83	73.98	74.13	74.28	74.43	74.58	74.73	74.88	75.03	75.18	75.33	75.48	75.63	75.78	75.93	76.08	76.23	76.38	76.53	76.68	76.83	76.98	77.13	77.28	77.43	77.58	77.73	77.88	78.03	78.18	78.33	78.48	78.63	78.78	78.93	79.08	79.23	79.38	79.53	79.68	79.83	79.98	80.13	80.28	80.43	80.58	80.73	80.88	81.03	81.18	81.33	81.48	81.63	81.78	81.93	82.08	82.23	82.38	82.53	82.68	82.83	82.98	83.13	83.28	83.43	83.58	83.73	83.88	84.03	84.18	84.33	84.48	84.63	84.78	84.93	85.08	85.23	85.38	85.53	85.68	85.83	85.98	86.13	86.28	86.43	86.58	86.73	86.88	87.03	87.18	87.33	87.48	87.63	87.78	87.93	88.08	88.23	88.38	88.53	88.68	88.83	88.98	89.13	89.28	89.43	89.58	89.73	89.88	90.03	90.18	90.33	90.48	90.63	90.78	90.93	91.08	91.23	91.38	91.53	91.68	91.83	91.98	92.13	92.28	92.43	92.58	92.73	92.88	93.03	93.18	93.33	93.48	93.63	93.78	93.93	94.08	94.23	94.38	94.53	94.68	94.83	94.98	95.13	95.28	95.43	95.58	95.73	95.88	96.03	96.18	96.33	96.48	96.63	96.78	96.93	97.08	97.23	97.38	97.53	97.68	97.83	97.98	98.13	98.28	98.43	98.58	98.73	98.88	99.03	99.18	99.33	99.48	99.63	99.78	99.93	100.08	100.23	100.38	100.53	100.68	100.83	100.98	101.13	101.28	101.43	101.58	101.73	101.88	102.03	102.18	102.33	102.48	102.63	102.78	102.93	103.08	103.23	103.38	103.53	103.68	103.83	103.98	104.13	104.28	104.43	104.58	104.73	104.88	105.03	105.18	105.33	105.48	105.63	105.78	105.93	106.08	106.23	106.38	106.53	106.68	106.83	106.98	107.13	107.28	107.43	107.58	107.73	107.88	108.03	108.18	108.33	108.48	108.63	108.78	108.93	109.08	109.23	109.38	109.53	109.68	109.83	109.98	110.13	110.28	110.43	110.58	110.73	110.88	111.03	111.18	111.33	111.48	111.63	111.78	111.93	112.08	112.23	112.38	112.53	112.68	112.83	112.98	113.13	113.28	113.43	113.58	113.73	113.88	114.03	114.18	114.33	114.48	114.63	114.78	114.93	115.08	115.23	115.38	115.53	115.68	115.83	115.98	116.13	116.28	116.43	116.58	116.73	116.88	117.03	117.18	117.33	117.48	117.63	117.78	117.93	118.08	118.23	118.38	118.53	118.68	118.83	118.98	119.13	119.28	119.43	119.58	119.73	119.88	120.03	120.18	120.33	120.48	120.63	120.78	120.93	121.08	121.23	121.38	121.53	121.68	121.83	121.98	122.13	122.28	122.43	122.58	122.73	122.88	123.03	123.18	123.33	123.48	123.63	123.78	123.93	124.08	124.23	124.38	124.53	124.68	124.83	124.98	125.13	125.28	125.43	125.58	125.73	125.88	126.03	126.18	126.33	126.48	126.63	126.78	126.93	127.08	127.23	127.38	127.53	127.68	127.83	127.98	128.13	128.28	128.43	128.58	128.73	128.88	129.03	129.18	129.33	129.48	129.63	129.78	129.93	130.08	130.23	130.38	130.53	130.68	130.83	130.98	131.13	131.28	131.43	131.58	131.73	131.88	132.03	132.18	132.33	132.48	132.63	132.78	132.93	133.08	133.23	133.38	133.53	133.68	133.83	133.98	134.13	134.28	134.43	134.58	134.73	134.88	135.03	135.18	135.33	135.48	135.63	135.78	135.93	136.08	136.23	136.38	136.53	136.68	136.83	136.98	137.13	137.28	137.43	137.58	137.73	137.88	138.03	138.18	138.33	138.48	138.63	138.78	138.93	139.08	139.23	139.38	139.53	139.68	139.83	139.98	140.13	140.28	140.43	140.58	140.73	140.88	141.03	141.18	141.33	141.48	141.63	141.78	141.93	142.08	142.23	142.38	142.53	142.68	142.83	142.98	143.13	143.28	143.43	143.58	143.73	143.88	144.03	144.18	144.33	144.48	144.63	144.78	144.93	145.08	145.23	145.38	145.53	145.68	145.83	145.98	146.13	146.28	146.43	146.58	146.73	146.88	147.03	147.18	147.33	147.48	147.63	147.78	147.93	148.08	148.23	148.38	148.53	148.68	148.83	148.98	149.13	149.28	149.43	149.58	149.73	149.88	150.03	150.18	150.33	150.48	150.63	150.78	150.93	151.08	151.23	151.38	151.53	151.68	151.83	151.98	152.13	152.28	152.43	152.58	152.73	152.88	153.03	153.18	153.33	153.48	153.63	153.78	153.93	154.08	154.23	154.38	154.53	154.68	154.83	154.98	155.13	155.28	155.43	155.58	155.73	155.88	156.03	156.18	156.33	156.48	156.63	156.78	156.93	157.08	157.23	157.38	157.53	157.68	157.83	157.98	158.13	158.28	158.43	158.58	158.73	158.88	159.03	159.18	159.33	159.48	159.63	159.78	159.93	160.08	160.23	160.38	160.53	160.68	160.83	160.98	161.13	161.28	161.43	161.58	161.73	161.88	162.03	162.18	162.33	162.48	162.63	162.78	162.93	163.08	163.23	163.38	163.53	163.68	163.83	163.98	164.13	164.28	164.43	164.58	164.73	164.88	165.03	165.18	165.33	165.48	165.63	165.78	165.93	166.08	166.23	166.38	166.53	166.68	166.83	166.98	167.13	167.28	167.43	167.58	167.73	167.88	168.03	168.18	168.33	168.48	168.63	168.78	168.93	169.08	169.23	169.38	169.53	169.68	169.83	169.98	170.13	170.28	170.43	170.58	170.73	170.88	171.03	171.18	171.33	171.48	171.63	171.78	171.93	172.08	172.23	172.38	172.53	172.68	172.83	172.98	173.13	173.28	173.43	173.58	173.73	173.88	174.03	174.18	174.33	174.48	174.63	174.78	174.93	175.08	175.23	175.38	175.53	175.68	175.83	175.98	176.13	176.28	176.43	176.58	176.73	176.88	177.03	177.18	177.33	177.48	177.63	177.78	177.93	178.08	178.23	178.38	178.53	178.68	178.83	178.98	179.13	179.28	179.43	179.58	179.73	179.88	180.03	180.18	180.33	180.48	180.63	180.78	180.93	181.08	181.23	181.38	181.53	181.68	181.83	181.98	182.13	182.28	182.43	182.58	182.73	182.88	183.03	183.18	183.33	183.48	183.63	183.78	183.93	184.08	184.23	184.38	184.53	184.68	184.83	184.98	185.13	185.28	185.43	185.58	185.73	185.88	186.03	186.18	186.33	186.48	186.63	186.78	186.93	187.08	187.23	187.38	187.53	187.68	187.83	187.98	188.13	188.28	188.43	188.58	188.73	188.88	189.03	189.18	189.33	189.48	189.63	189.78	189.93	190.08	190.23	190.38	190.53	190.68	190.83	190.98	191.13	191.28	191.43	191.58	191.73	191.88	192.03	192.18	192.33	192.48	192.63	192.78	192.93	193.08	193.23	193.38	193.53	193.68	193.83	193.98	194.13	194.28	194.43	194.58	194.73	194.88	195.03	195.18	195.33	195.48	195.63	195.78	195.93	196.08	196.23	196.38	196.53	196.68	196.83	196.98	197.13	197.28	197.43	197.58	197.73	197.88	198.03	198.18	198.33	198.48	198.63	198.78	198.93	199.08	199.23	199.38	199.5
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1505 PASAY CITY

THIS DRAWING AND DESIGN IS EXCLUSIVE PROPERTY OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	
REVIEWED BY:	

CHECKED BY:

RAUL R. CAVUCENA
Division Chief III, IDDD-AED

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:

LT COL VALENTINO A. DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:

LT GEN PAUL DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:

CAPTAIN JMC SYDIONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

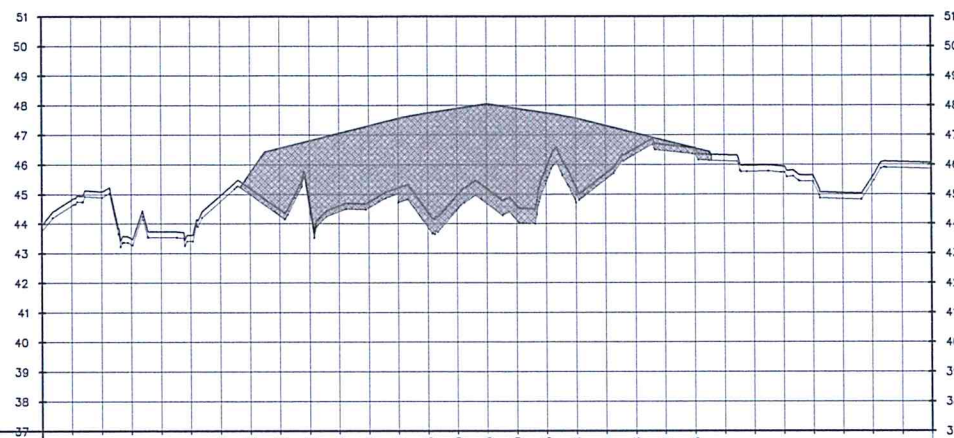
PROJECT:
DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:
RUNWAY CROSS-SECTIONS
From Sta. 1+420 to 1+480

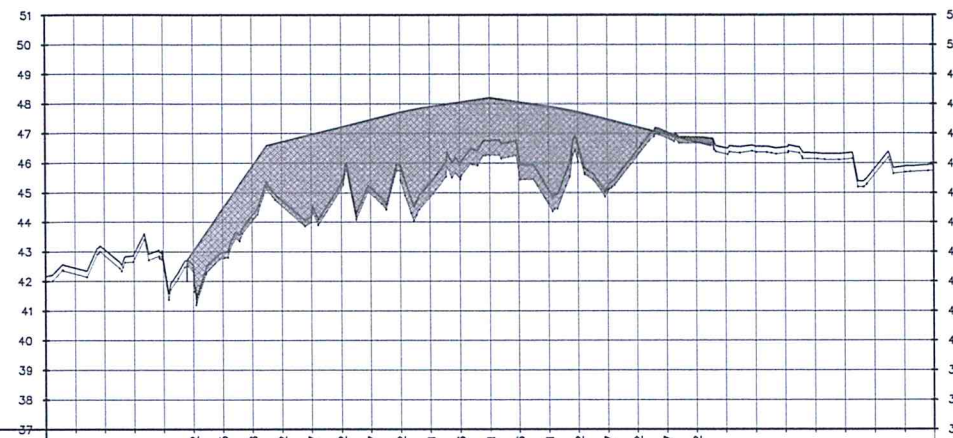
DRAWING SCALE: AS SHOWN
SHEET NO:

1+420.00



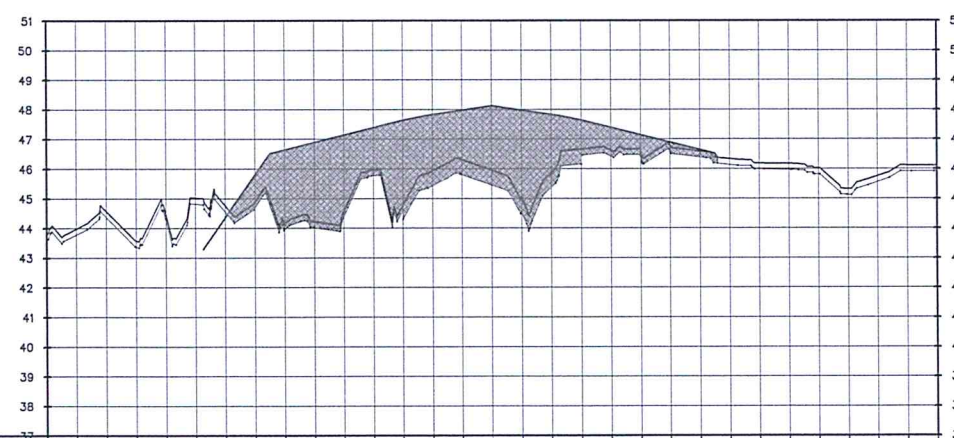
PROPOSED ELEVATIONS	156.66	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	43.95	44.82	45.10	43.50	43.74	43.61	44.06	44.29	45.20	45.72	46.56	46.81	47.06	47.31	47.56	47.75	47.90	48.05	47.90	47.75	47.56	47.06	46.81	46.56	46.33	45.97	45.64	45.05	45.57	46.09	
OFFSET	-156.66	-140.00	-130.00	-120.00	-110.00	-100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

1+460.00



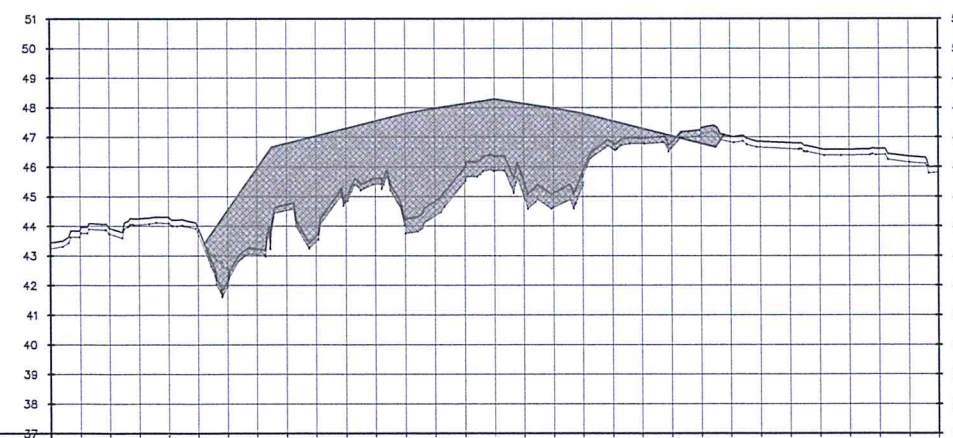
PROPOSED ELEVATIONS	156.66	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	42.97	42.46	43.08	42.93	42.70	42.54	43.02	44.45	45.88	46.72	46.97	47.22	47.47	47.72	47.91	48.06	48.21	48.06	47.91	47.72	47.47	47.22	46.97	46.72	46.51	46.58	46.54	46.34	46.33	45.80	45.89
OFFSET	-156.66	-140.00	-130.00	-120.00	-110.00	-100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

1+440.00



PROPOSED ELEVATIONS	156.66	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	43.78	43.99	44.58	43.58	44.42	45.02	45.80	46.64	46.89	47.14	47.39	47.64	47.83	47.98	48.13	48.28	48.43	48.58	48.73	48.88	49.03	49.18	49.33	49.48	49.63	49.78	49.93	50.08	50.23	50.38	50.53
OFFSET	-156.66	-140.00	-130.00	-120.00	-110.00	-100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

1+480.00



PROPOSED ELEVATIONS	156.66	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	43.44	43.89	43.93	44.26	44.30	44.32	44.53	45.96	46.80	47.05	47.30	47.55	47.80	47.99	48.14	48.29	48.44	48.59	48.74	48.89	49.04	49.19	49.34	49.49	49.64	49.79	49.94	50.09	50.24	50.39	50.54
OFFSET	-156.66	-140.00	-130.00	-120.00	-110.00	-100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

From Sta. 1+420 to Sta. 1+480
RUNWAY CROSS-SECTIONS
SCALE: 1:1400



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1305 PASAY CITY

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CAAP.

AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE
DESIGNED BY: IDDD
DRAWN BY:
REVIEWED BY:

CHECKED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-AED

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:
LTGEN RAUL DE ROSARIO AFP (RET)
Director General

CONCURRED BY:
CAPTAIN JIM C. SYDIONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

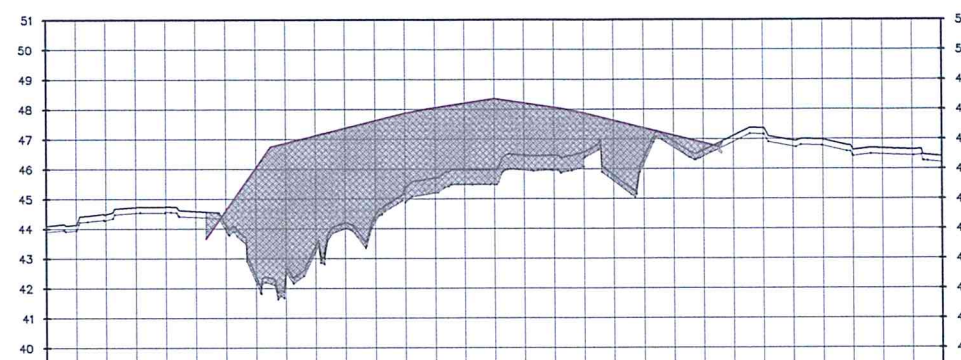
PROJECT:
DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+100 TO STA. 2+310.83)

LOCATION:
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:
RUNWAY CROSS-SECTIONS
From Sta. 1+500 to 1+560

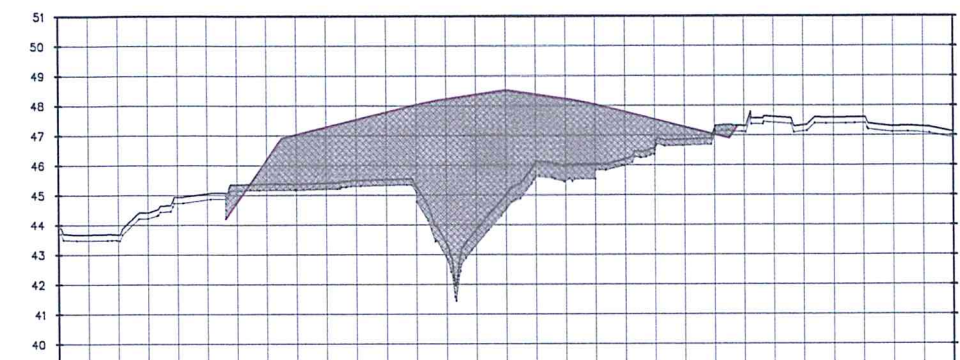
DRAWING SCALE: SHEET NO:
AS SHOWN

1+500.00



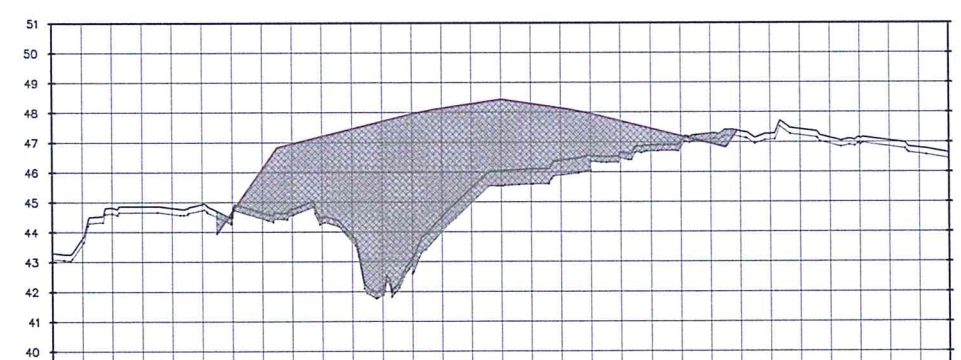
PROPOSED ELEVATIONS
150.00 46.65 140.00 46.65 130.00 46.65 120.00 46.65 110.00 46.65 100.00 46.65 90.00 46.65 80.00 46.65 70.00 46.65 60.00 46.65 50.00 46.65 40.00 46.65 30.00 46.65 20.00 46.65 10.00 46.65 0 46.65 10.00 46.65 20.00 46.65 30.00 46.65 40.00 46.65 50.00 46.65 60.00 46.65 70.00 46.65 80.00 46.65 90.00 46.65 100.00 46.65 110.00 46.65 120.00 46.65 130.00 46.65 140.00 46.65 150.00 46.65
EXISTING ELEVATIONS
150.00 46.65 140.00 46.65 130.00 46.65 120.00 46.65 110.00 46.65 100.00 46.65 90.00 46.65 80.00 46.65 70.00 46.65 60.00 46.65 50.00 46.65 40.00 46.65 30.00 46.65 20.00 46.65 10.00 46.65 0 46.65 10.00 46.65 20.00 46.65 30.00 46.65 40.00 46.65 50.00 46.65 60.00 46.65 70.00 46.65 80.00 46.65 90.00 46.65 100.00 46.65 110.00 46.65 120.00 46.65 130.00 46.65 140.00 46.65 150.00 46.65
OFFSET
150.00 140.00 130.00 120.00 110.00 100.00 90.00 80.00 70.00 60.00 50.00 40.00 30.00 20.00 10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00

1+540.00



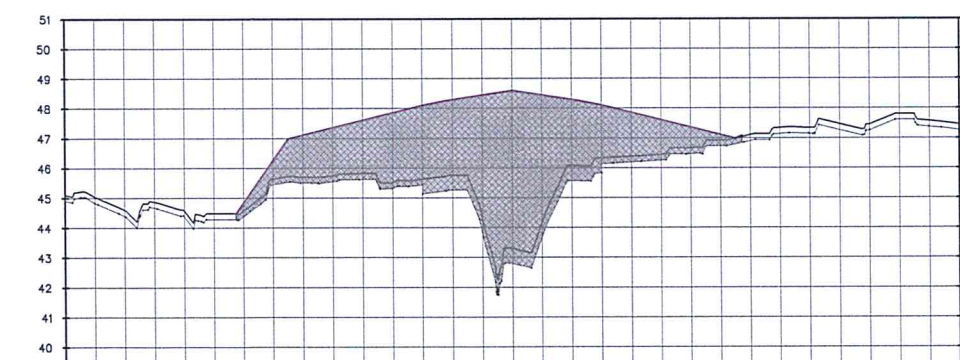
PROPOSED ELEVATIONS
150.00 46.65 140.00 46.65 130.00 46.65 120.00 46.65 110.00 46.65 100.00 46.65 90.00 46.65 80.00 46.65 70.00 46.65 60.00 46.65 50.00 46.65 40.00 46.65 30.00 46.65 20.00 46.65 10.00 46.65 0 46.65 10.00 46.65 20.00 46.65 30.00 46.65 40.00 46.65 50.00 46.65 60.00 46.65 70.00 46.65 80.00 46.65 90.00 46.65 100.00 46.65 110.00 46.65 120.00 46.65 130.00 46.65 140.00 46.65 150.00 46.65
EXISTING ELEVATIONS
150.00 46.65 140.00 46.65 130.00 46.65 120.00 46.65 110.00 46.65 100.00 46.65 90.00 46.65 80.00 46.65 70.00 46.65 60.00 46.65 50.00 46.65 40.00 46.65 30.00 46.65 20.00 46.65 10.00 46.65 0 46.65 10.00 46.65 20.00 46.65 30.00 46.65 40.00 46.65 50.00 46.65 60.00 46.65 70.00 46.65 80.00 46.65 90.00 46.65 100.00 46.65 110.00 46.65 120.00 46.65 130.00 46.65 140.00 46.65 150.00 46.65
OFFSET
150.00 140.00 130.00 120.00 110.00 100.00 90.00 80.00 70.00 60.00 50.00 40.00 30.00 20.00 10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00

1+520.00



PROPOSED ELEVATIONS
150.00 46.65 140.00 46.65 130.00 46.65 120.00 46.65 110.00 46.65 100.00 46.65 90.00 46.65 80.00 46.65 70.00 46.65 60.00 46.65 50.00 46.65 40.00 46.65 30.00 46.65 20.00 46.65 10.00 46.65 0 46.65 10.00 46.65 20.00 46.65 30.00 46.65 40.00 46.65 50.00 46.65 60.00 46.65 70.00 46.65 80.00 46.65 90.00 46.65 100.00 46.65 110.00 46.65 120.00 46.65 130.00 46.65 140.00 46.65 150.00 46.65
EXISTING ELEVATIONS
150.00 46.65 140.00 46.65 130.00 46.65 120.00 46.65 110.00 46.65 100.00 46.65 90.00 46.65 80.00 46.65 70.00 46.65 60.00 46.65 50.00 46.65 40.00 46.65 30.00 46.65 20.00 46.65 10.00 46.65 0 46.65 10.00 46.65 20.00 46.65 30.00 46.65 40.00 46.65 50.00 46.65 60.00 46.65 70.00 46.65 80.00 46.65 90.00 46.65 100.00 46.65 110.00 46.65 120.00 46.65 130.00 46.65 140.00 46.65 150.00 46.65
OFFSET
150.00 140.00 130.00 120.00 110.00 100.00 90.00 80.00 70.00 60.00 50.00 40.00 30.00 20.00 10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00

1+560.00



PROPOSED ELEVATIONS
150.00 46.65 140.00 46.65 130.00 46.65 120.00 46.65 110.00 46.65 100.00 46.65 90.00 46.65 80.00 46.65 70.00 46.65 60.00 46.65 50.00 46.65 40.00 46.65 30.00 46.65 20.00 46.65 10.00 46.65 0 46.65 10.00 46.65 20.00 46.65 30.00 46.65 40.00 46.65 50.00 46.65 60.00 46.65 70.00 46.65 80.00 46.65 90.00 46.65 100.00 46.65 110.00 46.65 120.00 46.65 130.00 46.65 140.00 46.65 150.00 46.65
EXISTING ELEVATIONS
150.00 46.65 140.00 46.65 130.00 46.65 120.00 46.65 110.00 46.65 100.00 46.65 90.00 46.65 80.00 46.65 70.00 46.65 60.00 46.65 50.00 46.65 40.00 46.65 30.00 46.65 20.00 46.65 10.00 46.65 0 46.65 10.00 46.65 20.00 46.65 30.00 46.65 40.00 46.65 50.00 46.65 60.00 46.65 70.00 46.65 80.00 46.65 90.00 46.65 100.00 46.65 110.00 46.65 120.00 46.65 130.00 46.65 140.00 46.65 150.00 46.65
OFFSET
150.00 140.00 130.00 120.00 110.00 100.00 90.00 80.00 70.00 60.00 50.00 40.00 30.00 20.00 10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00

From Sta. 1+500 to Sta. 1+560

 **RUNWAY CROSS-SECTIONS**
SCALE: 1:1400



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1200 PASAY CITY

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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE
DESIGNED BY: IDDD
DRAWN BY:
REVIEWED BY:

CHECKED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-AED

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:
LT COL VALENTINO A. DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:
LT GEN RAUL L. DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:
CAPTAN JIM C. SYDIONGCO
Under Secretary for Aviation and Airports

NOTES/REVISIONS:

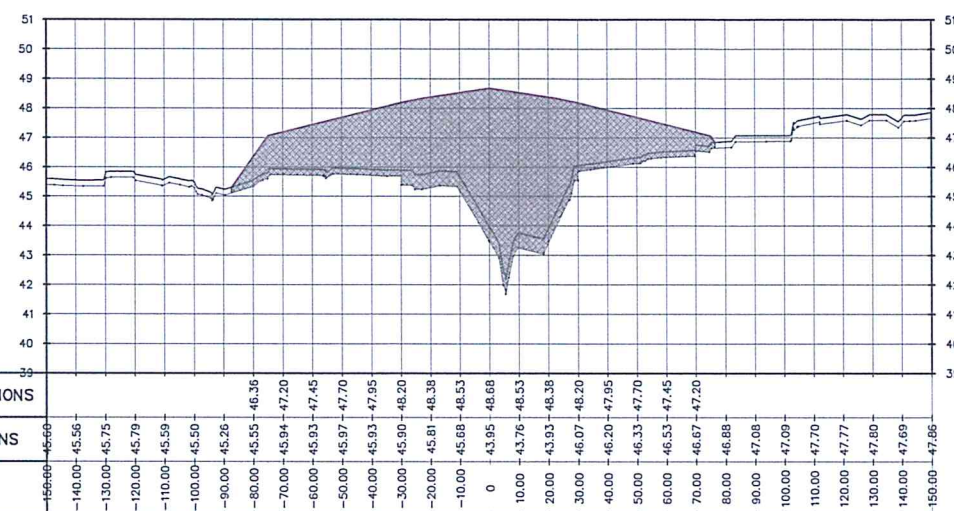
PROJECT:
DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:
RUNWAY CROSS-SECTIONS
From Sta. 1+580 to 1+640

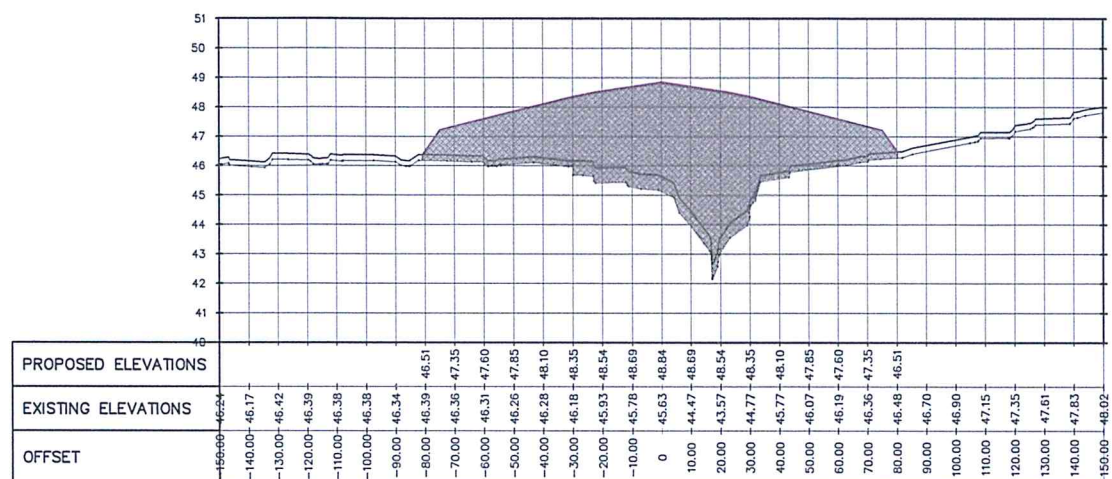
DRAWING SCALE: AS SHOWN
SHEET NO.:

1+580.00



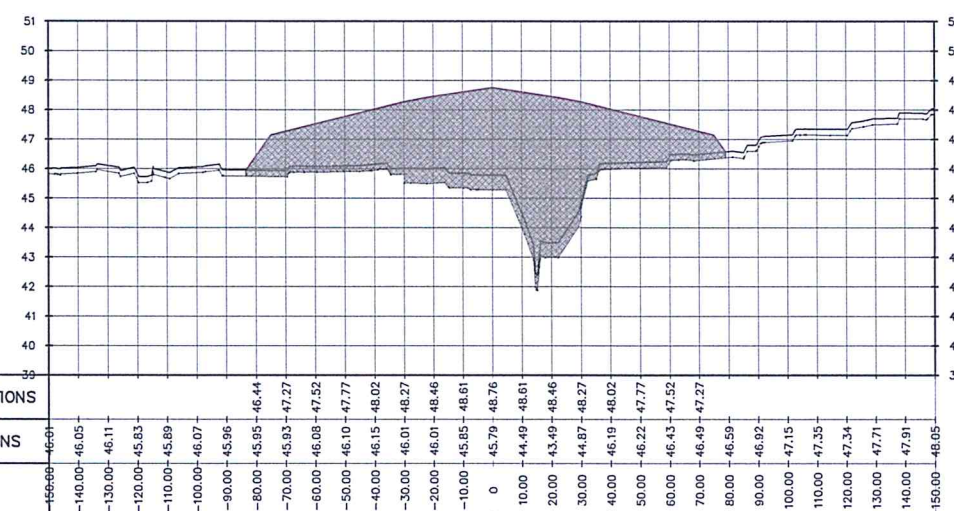
PROPOSED ELEVATIONS	
EXISTING ELEVATIONS	-150.00 -46.60 -140.00 -45.56 -130.00 -45.75 -120.00 -45.79 -110.00 -45.59 -100.00 -45.50 -90.00 -45.26 -80.00 -45.55 -70.00 -45.94 -60.00 -45.93 -50.00 -45.97 -40.00 -45.93 -30.00 -45.90 -20.00 -45.81 -10.00 -45.68 0 43.95 10.00 43.76 20.00 43.93 30.00 46.07 40.00 46.20 50.00 46.33 60.00 46.53 70.00 46.67 80.00 46.88 90.00 47.08 100.00 47.09 110.00 47.70 120.00 47.77 130.00 47.80 140.00 47.69 150.00 47.86
OFFSET	

1+620.00



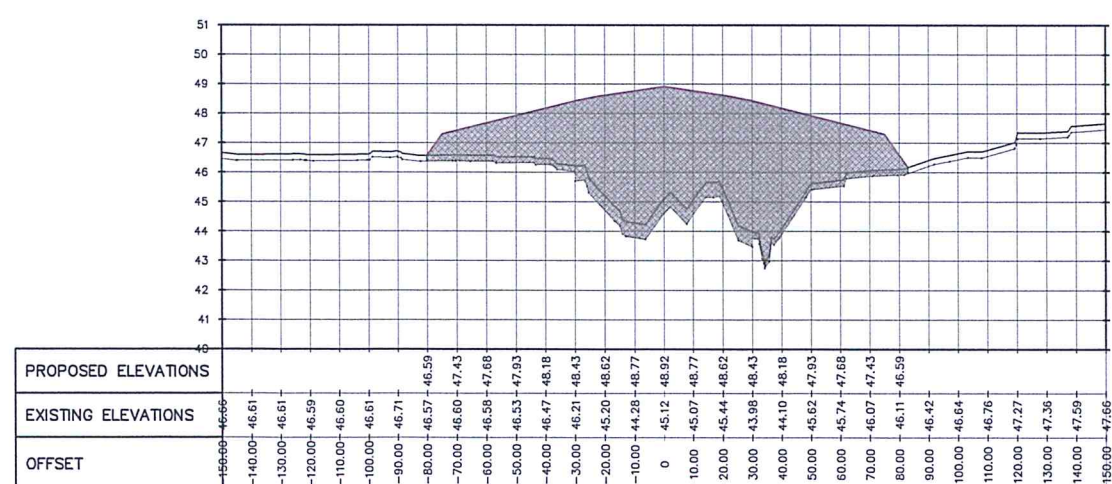
PROPOSED ELEVATIONS	
EXISTING ELEVATIONS	-150.00 -46.24 -140.00 -46.17 -130.00 -46.42 -120.00 -46.39 -110.00 -46.38 -100.00 -46.38 -90.00 -46.34 -80.00 -46.39 -70.00 -46.36 -60.00 -46.31 -50.00 -46.26 -40.00 -46.28 -30.00 -46.18 -20.00 -45.93 -10.00 -45.78 0 45.63 10.00 44.47 20.00 43.57 30.00 44.77 40.00 45.77 50.00 46.07 60.00 46.19 70.00 46.36 80.00 46.48 90.00 46.70 100.00 46.90 110.00 47.15 120.00 47.35 130.00 47.61 140.00 47.83 150.00 48.02
OFFSET	

1+600.00



PROPOSED ELEVATIONS	
EXISTING ELEVATIONS	-150.00 -46.01 -140.00 -46.05 -130.00 -46.11 -120.00 -45.83 -110.00 -45.89 -100.00 -46.07 -90.00 -45.96 -80.00 -45.95 -70.00 -45.93 -60.00 -46.08 -50.00 -46.10 -40.00 -46.15 -30.00 -46.01 -20.00 -46.01 -10.00 -45.85 0 45.79 10.00 44.49 20.00 43.49 30.00 44.87 40.00 46.19 50.00 46.22 60.00 46.43 70.00 46.49 80.00 46.59 90.00 46.92 100.00 47.15 110.00 47.35 120.00 47.34 130.00 47.71 140.00 47.91 150.00 48.05
OFFSET	

1+640.00



PROPOSED ELEVATIONS	
EXISTING ELEVATIONS	-150.00 -46.05 -140.00 -46.01 -130.00 -46.01 -120.00 -46.59 -110.00 -46.60 -100.00 -46.61 -90.00 -46.71 -80.00 -46.57 -70.00 -46.60 -60.00 -46.58 -50.00 -46.53 -40.00 -46.47 -30.00 -46.21 -20.00 -45.20 -10.00 -44.28 0 45.12 10.00 45.07 20.00 45.44 30.00 43.98 40.00 44.10 50.00 45.62 60.00 45.74 70.00 46.07 80.00 46.11 90.00 46.42 100.00 46.64 110.00 46.76 120.00 47.27 130.00 47.36 140.00 47.59 150.00 47.66
OFFSET	

From Sta. 1+580 to Sta. 1+640

 **RUNWAY CROSS-SECTIONS**
SCALE: 1:1400



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAGA ROAD, 1500 PASAY CITY

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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE

DESIGNED BY: IDDD

DRAWN BY:

REVIEWED BY:

CHECKED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-AED

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:

LT COL VALENTINO A DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:

LTGEN RAUL D. ROSARIO AFP (RET)
Director General

CONCURRED BY:

CAPTAIN JIM C. SYDIONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS

PROJECT:

DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:

NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:

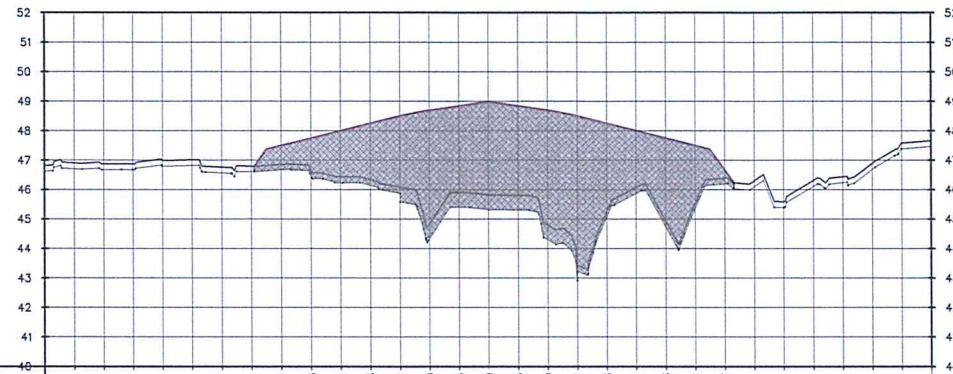
RUNWAY CROSS-SECTIONS
From Sta. 1+660 to 1+720

DRAWING SCALE:

AS SHOWN

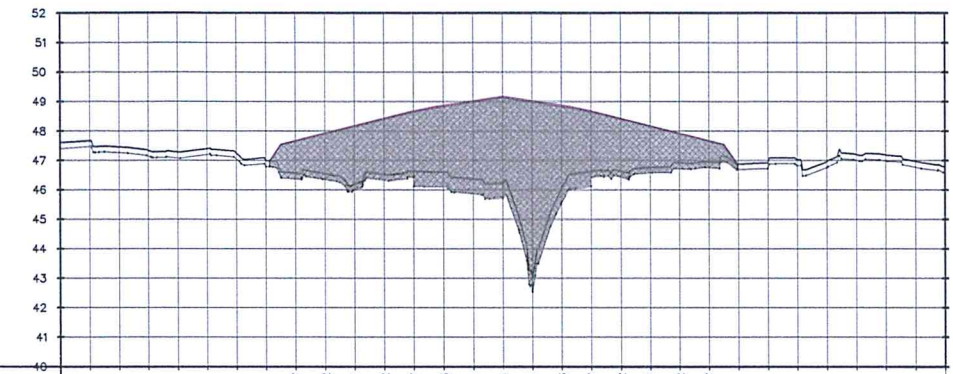
SHEET NO:

1+660.00



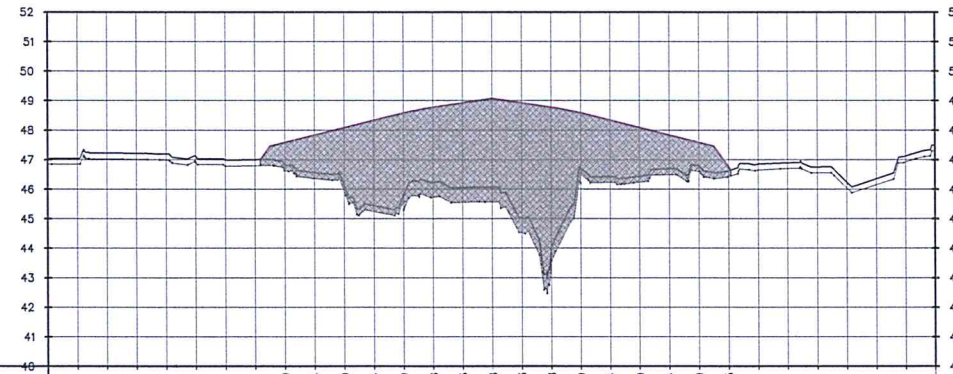
PROPOSED ELEVATIONS	46.62	46.91	46.87	46.87	46.99	47.02	46.77	46.80	47.51	47.76	48.01	48.26	48.51	48.70	48.85	49.00	48.85	48.70	48.51	48.26	48.01	47.76	47.51	46.87
EXISTING ELEVATIONS	46.62	46.91	46.87	46.87	46.99	47.02	46.77	46.80	47.51	47.76	48.01	48.26	48.51	48.70	48.85	49.00	48.85	48.70	48.51	48.26	48.01	47.76	47.51	46.87
OFFSET	150.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00

1+700.00



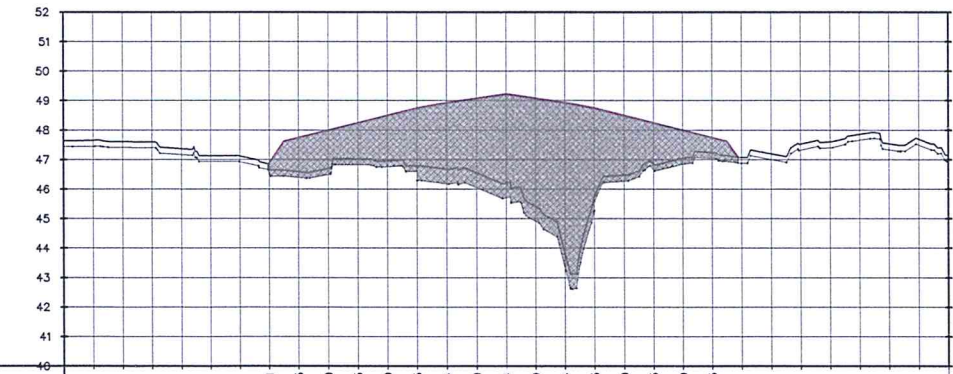
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EXISTING ELEVATIONS	47.61	47.67	47.46	47.35	47.29	47.40	47.25	47.00	47.57	47.92	48.17	48.42	48.67	48.86	49.01	49.16	49.01	48.86	48.67	48.42	48.17	47.92	47.67	47.61
OFFSET	150.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00

1+680.00



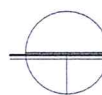
PROPOSED ELEVATIONS	47.65	47.05	47.23	47.22	47.19	47.11	46.99	47.00	47.59	47.84	48.09	48.34	48.59	48.78	48.93	49.08	48.93	48.78	48.59	48.34	48.09	47.84	47.59	47.65
EXISTING ELEVATIONS	47.65	47.05	47.23	47.22	47.19	47.11	46.99	47.00	47.59	47.84	48.09	48.34	48.59	48.78	48.93	49.08	48.93	48.78	48.59	48.34	48.09	47.84	47.59	47.65
OFFSET	150.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00

1+720.00



PROPOSED ELEVATIONS	47.64	47.06	47.61	47.60	47.37	47.14	47.12	46.91	47.75	48.00	48.25	48.50	48.75	48.94	49.09	49.24	49.09	48.94	48.75	48.50	48.25	48.00	47.75	47.64
EXISTING ELEVATIONS	47.64	47.06	47.61	47.60	47.37	47.14	47.12	46.91	47.75	48.00	48.25	48.50	48.75	48.94	49.09	49.24	49.09	48.94	48.75	48.50	48.25	48.00	47.75	47.64
OFFSET	150.00	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00

From Sta. 1+660 to Sta. 1+720



RUNWAY CROSS-SECTIONS

SCALE:

1:1400



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1500 PASAY CITY

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INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

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CHECKED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-AED

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:

LTCOL VALENTINO A. DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:

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Director General

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CAPTAIN JIM C. SYDIONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

PROJECT:

DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:

NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

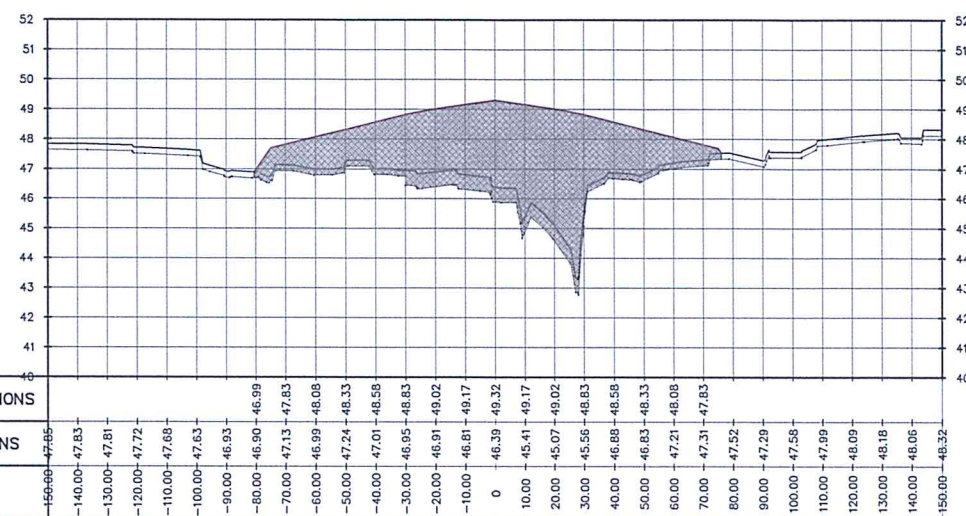
SHEET CONTENTS:

RUNWAY CROSS-SECTIONS
From Sta. 1+740 to 1+800

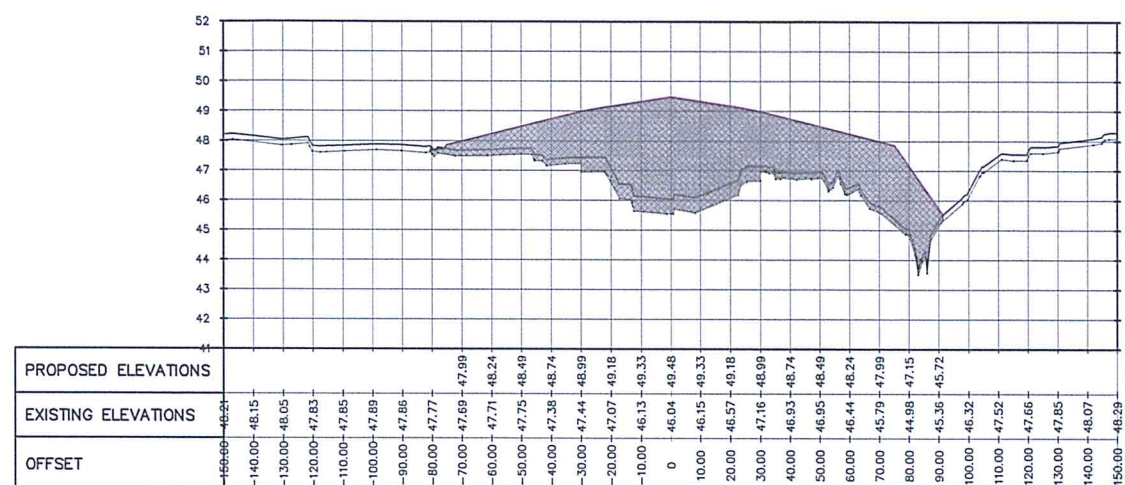
DRAWING SCALE: SHEET NO:

AS SHOWN

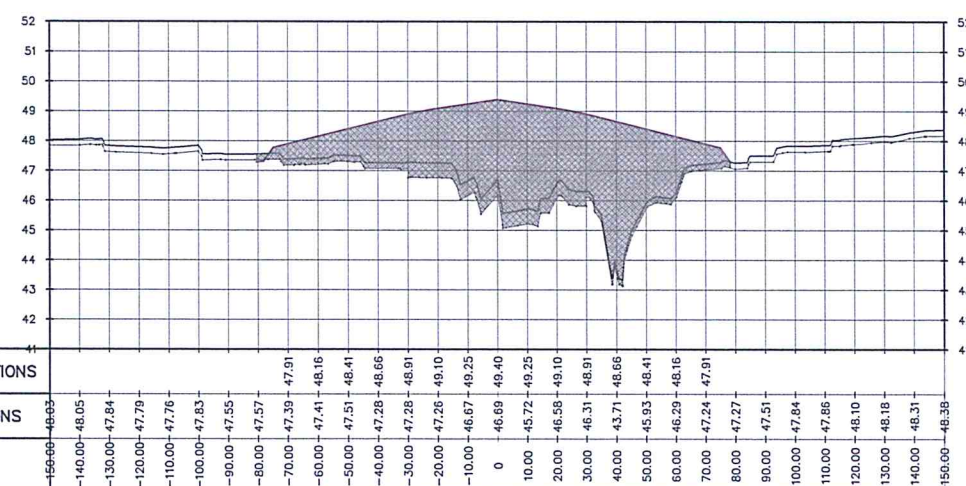
1+740.00



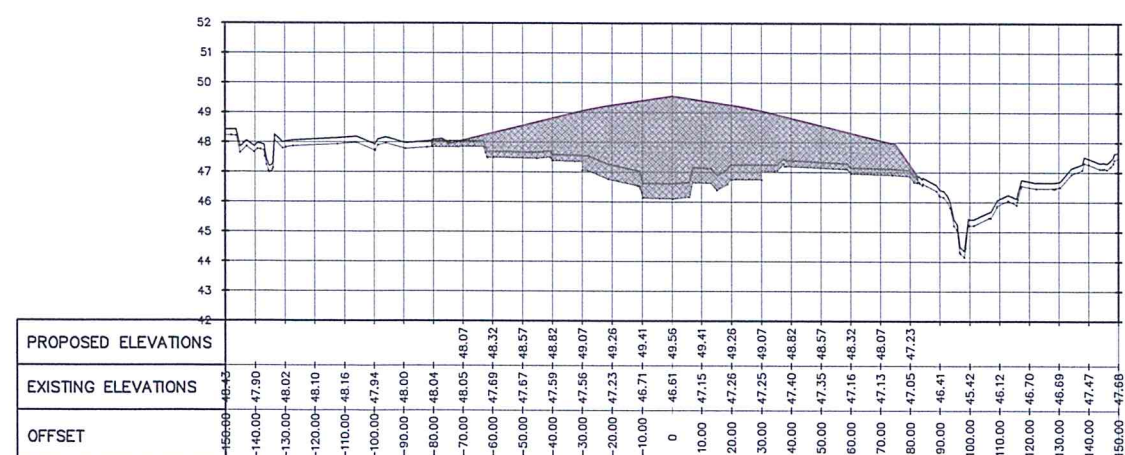
1+780.00



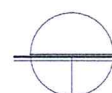
1+760.00



1+800.00



From Sta. 1+740 to Sta. 1+800

 **RUNWAY CROSS-SECTIONS**
SCALE: 1:1400



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1305 PASAY CITY

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CONSENT FROM THE DIRECTOR GENERAL
CAAP

AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE
DESIGNED BY: IDDD
DRAWN BY:
REVIEWED BY:

CHECKED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-AED

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:
LT GEN RAUL L DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:
CAPTAIN JIM C SYDONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

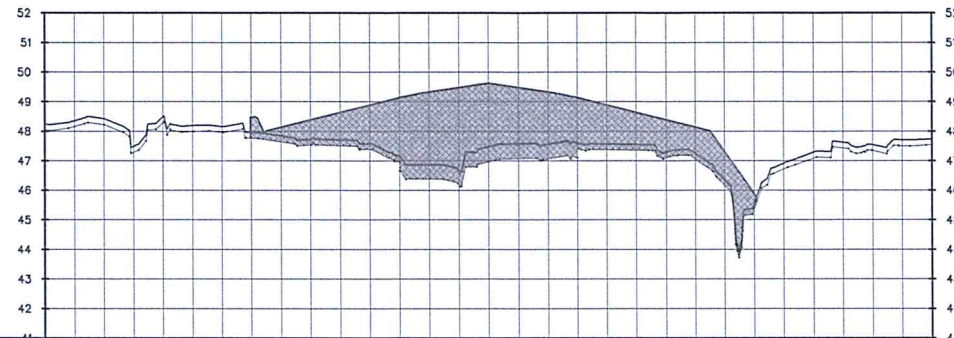
PROJECT:
DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:
RUNWAY CROSS-SECTIONS
From Sta. 1+820 to 1+880

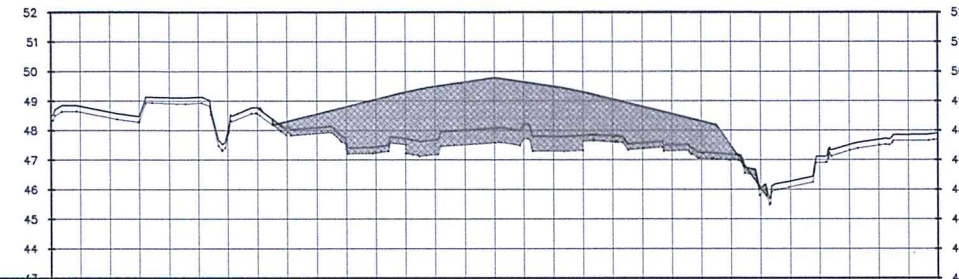
DRAWING SCALE: AS SHOWN
SHEET NO:

1+820.00



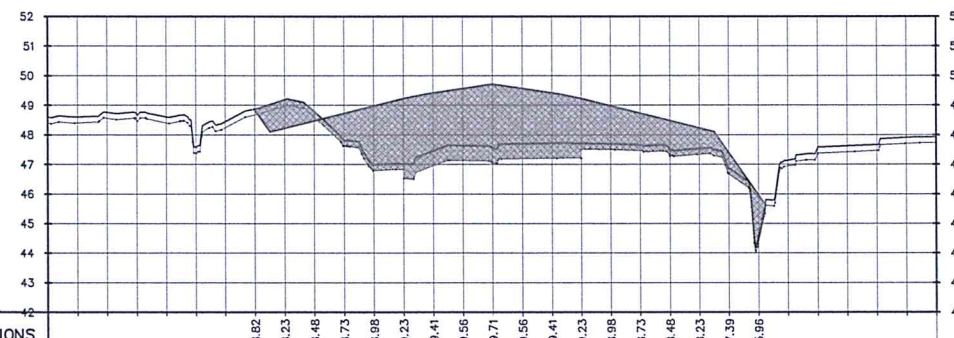
PROPOSED ELEVATIONS	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	46.26	48.36	48.43	47.49	48.50	48.20	48.17	47.97	47.65	48.15	48.40	48.65	48.90	49.15	49.33	49.48	49.63	49.48	49.33	49.15	48.90	48.65	48.40	48.15	47.97	47.65	47.30	47.07	46.82	46.57	46.32
OFFSET	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

1+860.00



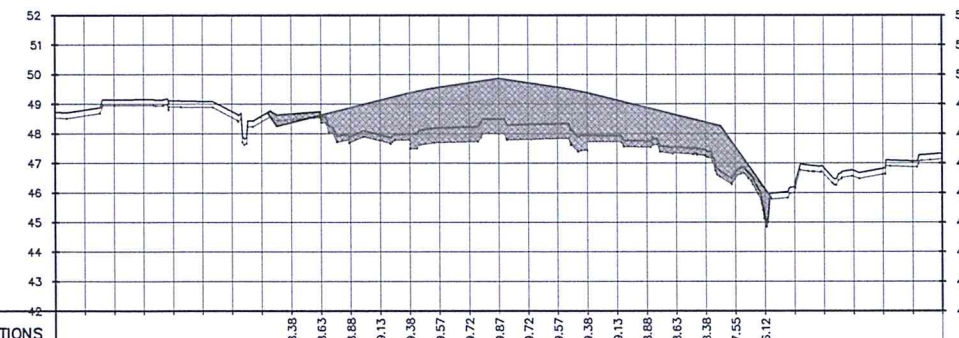
PROPOSED ELEVATIONS	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	46.26	48.36	48.43	47.49	48.50	48.20	48.17	47.97	47.65	48.15	48.40	48.65	48.90	49.15	49.33	49.48	49.63	49.48	49.33	49.15	48.90	48.65	48.40	48.15	47.97	47.65	47.30	47.07	46.82	46.57	46.32
OFFSET	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

1+840.00



PROPOSED ELEVATIONS	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	46.26	48.36	48.43	47.49	48.50	48.20	48.17	47.97	47.65	48.15	48.40	48.65	48.90	49.15	49.33	49.48	49.63	49.48	49.33	49.15	48.90	48.65	48.40	48.15	47.97	47.65	47.30	47.07	46.82	46.57	46.32
OFFSET	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

1+880.00



PROPOSED ELEVATIONS	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
EXISTING ELEVATIONS	46.26	48.36	48.43	47.49	48.50	48.20	48.17	47.97	47.65	48.15	48.40	48.65	48.90	49.15	49.33	49.48	49.63	49.48	49.33	49.15	48.90	48.65	48.40	48.15	47.97	47.65	47.30	47.07	46.82	46.57	46.32
OFFSET	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

From Sta. 1+820 to Sta. 1+880
RUNWAY CROSS-SECTIONS
SCALE: 1:1400



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1305 PASAY CITY

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF: INITIAL / DATE
DESIGNED BY: IDDD
DRAWN BY:
REVIEWED BY:

CHECKED BY:
RAUL R. CHUCENA
Division Chief III, DDD-AED

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:
LT COL VALENTINO A DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:
LTGEN RAUL L DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:
CAPTAIN JIM C. SYDIONGCO
Deputy Secretary for Aviation and Airports

NOTES/REVISIONS:

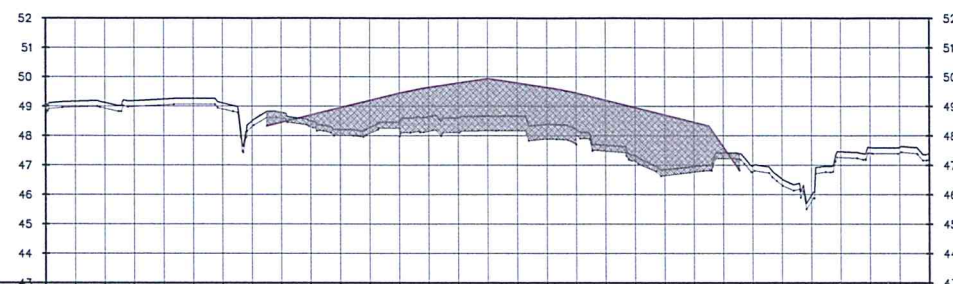
PROJECT:
DEVELOPMENT OF NEW AIRPORT SITE AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:
RUNWAY CROSS-SECTIONS
From Sta. 1+900 to 1+960

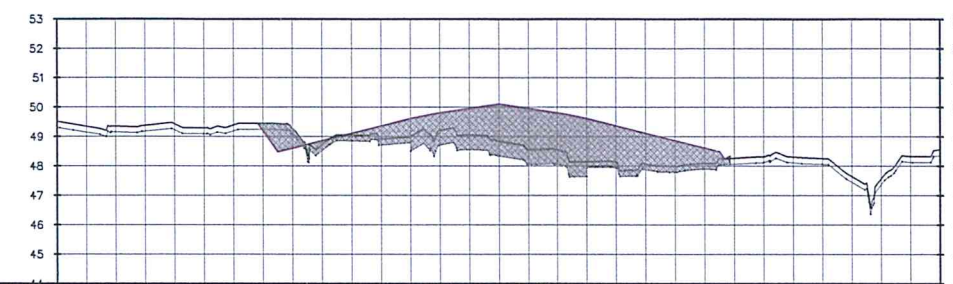
DRAWING SCALE: AS SHOWN
SHEET NO:

1+900.00



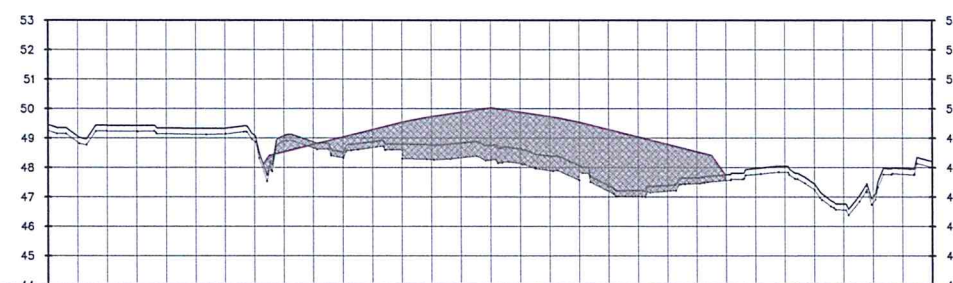
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EXISTING ELEVATIONS	48.94	48.17	49.13	49.19	49.25	49.27	49.11	48.51	48.46	48.71	48.96	49.21	49.46	49.65	49.80	49.85	49.80	49.46	49.21	48.96	48.71	48.46	47.62	47.40
OFFSET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1+940.00



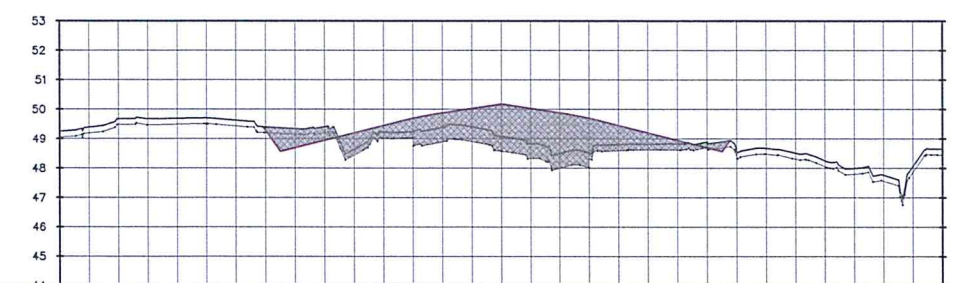
PROPOSED ELEVATIONS	49.52	49.35	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36
EXISTING ELEVATIONS	49.52	49.35	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36	49.36
OFFSET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1+920.00



PROPOSED ELEVATIONS	49.46	49.06	49.44	49.42	49.35	49.33	49.34	49.09	48.54	48.78	49.04	49.29	49.54	49.73	49.88	50.03	49.88	49.73	49.54	49.29	49.04	48.78	48.54	48.21
EXISTING ELEVATIONS	49.46	49.06	49.44	49.42	49.35	49.33	49.34	49.09	48.54	48.78	49.04	49.29	49.54	49.73	49.88	50.03	49.88	49.73	49.54	49.29	49.04	48.78	48.54	48.21
OFFSET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

1+960.00



PROPOSED ELEVATIONS	49.55	49.39	49.88	49.67	49.69	49.69	49.63	49.40	49.29	48.70	48.95	49.20	49.45	49.70	49.89	50.04	50.19	50.04	49.89	49.70	49.45	49.20	48.95	48.70
EXISTING ELEVATIONS	49.55	49.39	49.88	49.67	49.69	49.69	49.63	49.40	49.29	48.70	48.95	49.20	49.45	49.70	49.89	50.04	50.19	50.04	49.89	49.70	49.45	49.20	48.95	48.70
OFFSET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

From Sta. 1+900 to Sta. 1+960

 **RUNWAY CROSS-SECTIONS**
SCALE: 1:1400



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1355 PASAY CITY

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CAAP

AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE
DESIGNED BY: IDDD
DRAWN BY:
REVIEWED BY:

CHECKED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-AED

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:
LT COL VALENTINO A. DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:
LT GEN RAJUL DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:
CAPTAIN JIM SYDONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS

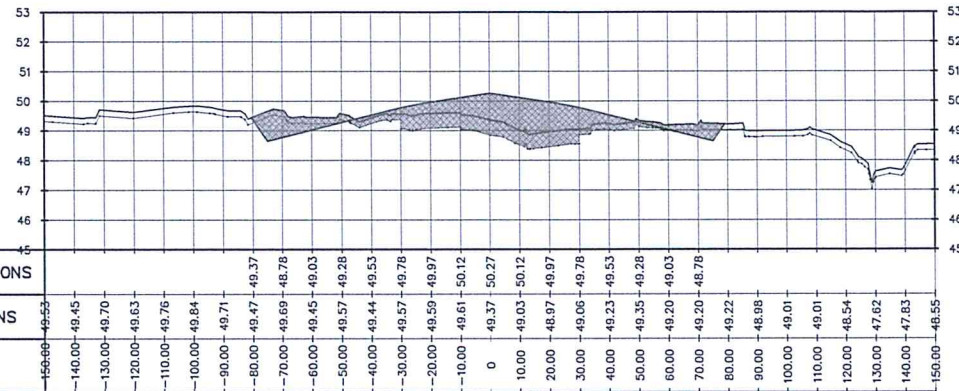
PROJECT:
DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

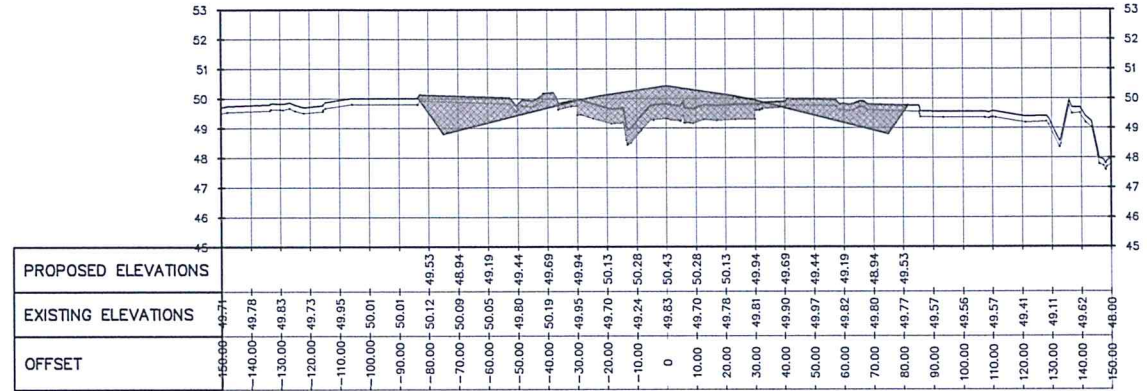
SHEET CONTENTS:
RUNWAY CROSS-SECTIONS
From Sta. 1+980 to 2+040

DRAWING SCALE: SHEET NO:
AS SHOWN

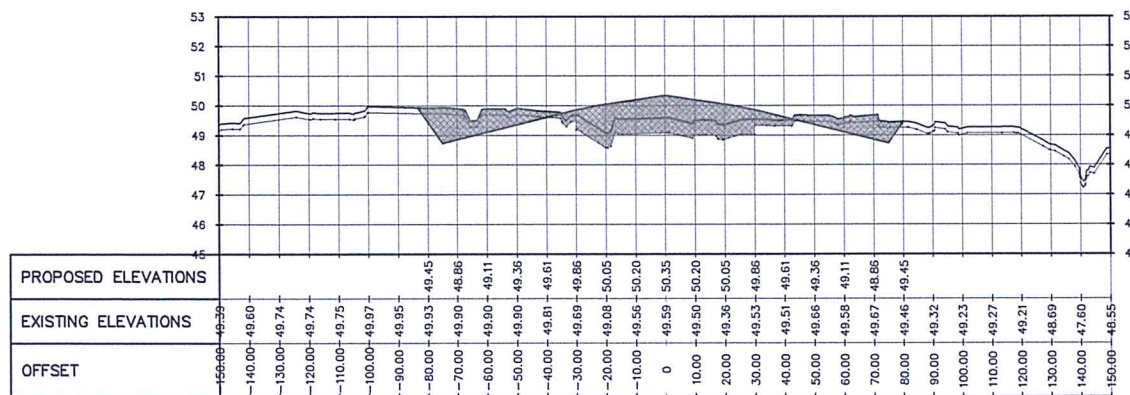
1+980.00



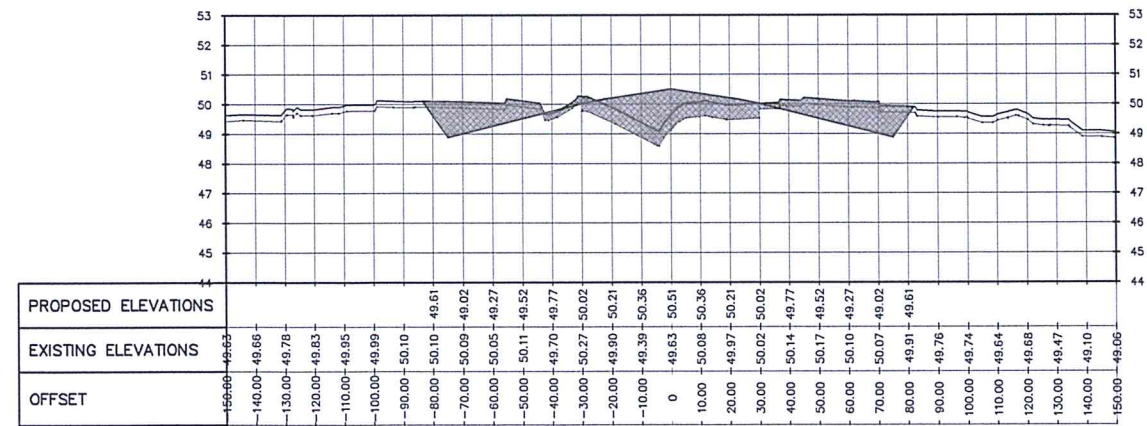
2+020.00



2+000.00



2+040.00



From Sta. 1+980 to Sta. 2+040

RUNWAY CROSS-SECTIONS
SCALE: 1:1400



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1305 PASAY CITY

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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE
DESIGNED BY: IDDD
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Division Chief III, IDDD-AED

SUBMITTED BY:
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Director General

CONCURRED BY:
CAPTAIN JIM C. SYDIONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

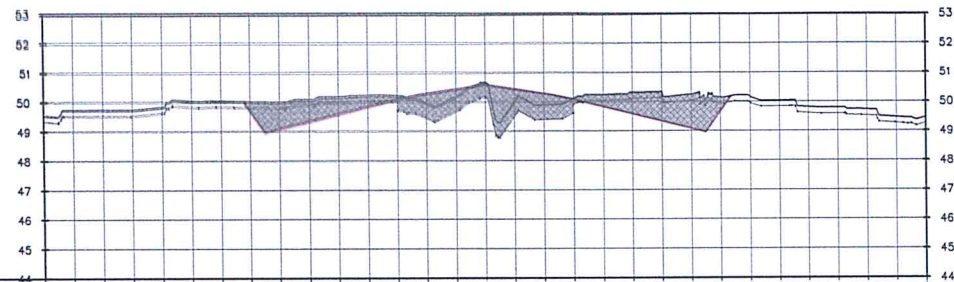
PROJECT:
DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:
RUNWAY CROSS-SECTIONS
From Sta. 2+060 to 2+120

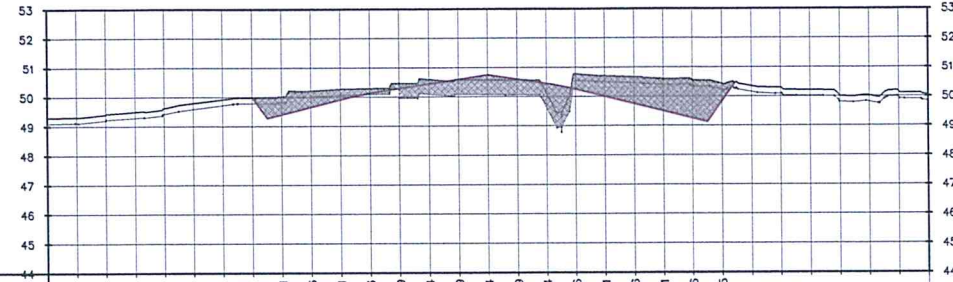
DRAWING SCALE: AS SHOWN
SHEET NO:

2+060.00



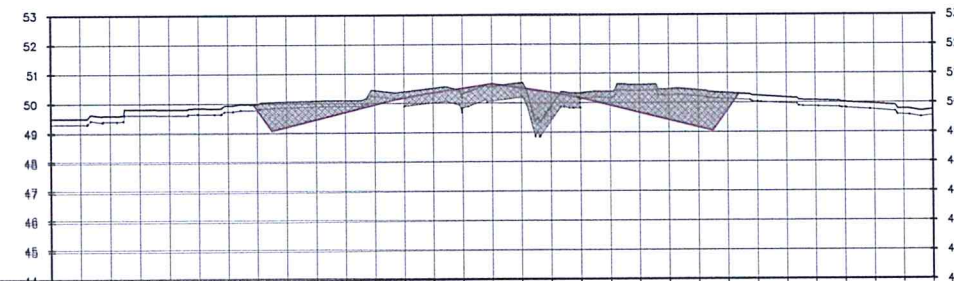
PROPOSED ELEVATIONS	156.68 140.00 130.00 120.00 110.00 100.00 90.00 80.00 70.00 60.00 50.00 40.00 30.00 20.00 10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00
EXISTING ELEVATIONS	49.54 49.73 49.72 49.73 49.83 49.03 50.04 50.01 49.69 49.10 49.35 49.60 49.85 50.10 50.44 50.59 50.44 50.29 50.10 50.24 49.85 49.60 49.35 49.10 49.69 50.14 50.17 50.04 49.81 49.78 49.72 49.47 49.46
OFFSET	-156.68 -140.00 -130.00 -120.00 -110.00 -100.00 -90.00 -80.00 -70.00 -60.00 -50.00 -40.00 -30.00 -20.00 -10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00

2+100.00



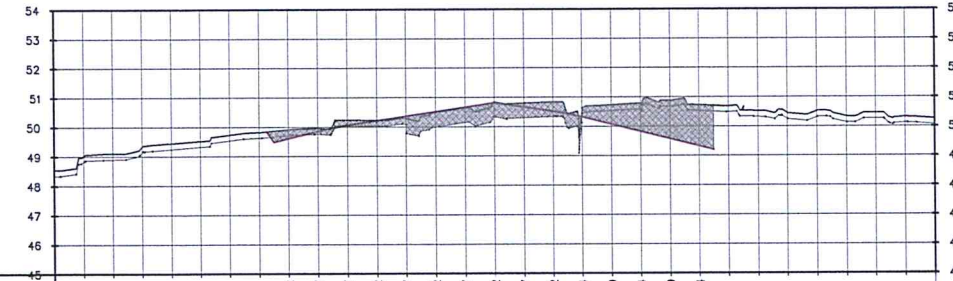
PROPOSED ELEVATIONS	156.68 140.00 130.00 120.00 110.00 100.00 90.00 80.00 70.00 60.00 50.00 40.00 30.00 20.00 10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00
EXISTING ELEVATIONS	49.54 49.73 49.72 49.73 49.83 49.03 50.04 50.01 49.69 49.10 49.35 49.60 49.85 50.10 50.44 50.59 50.44 50.29 50.10 50.24 49.85 49.60 49.35 49.10 49.69 50.14 50.17 50.04 49.81 49.78 49.72 49.47 49.46
OFFSET	-156.68 -140.00 -130.00 -120.00 -110.00 -100.00 -90.00 -80.00 -70.00 -60.00 -50.00 -40.00 -30.00 -20.00 -10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00

2+080.00



PROPOSED ELEVATIONS	156.68 140.00 130.00 120.00 110.00 100.00 90.00 80.00 70.00 60.00 50.00 40.00 30.00 20.00 10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00
EXISTING ELEVATIONS	49.54 49.73 49.72 49.73 49.83 49.03 50.04 50.01 49.69 49.10 49.35 49.60 49.85 50.10 50.44 50.59 50.44 50.29 50.10 50.24 49.85 49.60 49.35 49.10 49.69 50.14 50.17 50.04 49.81 49.78 49.72 49.47 49.46
OFFSET	-156.68 -140.00 -130.00 -120.00 -110.00 -100.00 -90.00 -80.00 -70.00 -60.00 -50.00 -40.00 -30.00 -20.00 -10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00

2+120.00



PROPOSED ELEVATIONS	156.68 140.00 130.00 120.00 110.00 100.00 90.00 80.00 70.00 60.00 50.00 40.00 30.00 20.00 10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00
EXISTING ELEVATIONS	49.54 49.73 49.72 49.73 49.83 49.03 50.04 50.01 49.69 49.10 49.35 49.60 49.85 50.10 50.44 50.59 50.44 50.29 50.10 50.24 49.85 49.60 49.35 49.10 49.69 50.14 50.17 50.04 49.81 49.78 49.72 49.47 49.46
OFFSET	-156.68 -140.00 -130.00 -120.00 -110.00 -100.00 -90.00 -80.00 -70.00 -60.00 -50.00 -40.00 -30.00 -20.00 -10.00 0 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00

From Sta. 2+060 to Sta. 2+120

RUNWAY CROSS-SECTIONS

SCALE: 1:1400



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1500 PASAY CITY

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CAAP.

AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE

DESIGNED BY: IDDD

DRAWN BY:

REVIEWED BY:

CHECKED BY:

RAUL R. ORCENA
Division Chief III, IDDD-AED

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:

LTCOL. VALENTINO A. DIONELA PAF (RET)
Assistant Director General II, ADMS

APPROVED:

LTGEN RAUL L. DEL ROSARIO AFP (RET)
Director General

CONCURRED BY:

CAPTAIN JIM C. SYDIONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS

PROJECT:

DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:

NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

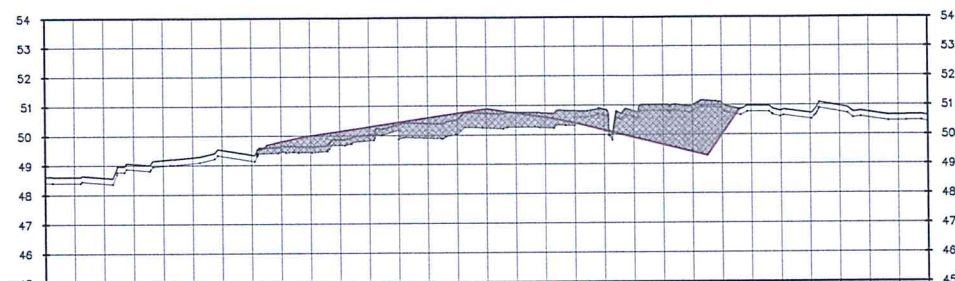
SHEET CONTENTS:

RUNWAY CROSS-SECTIONS
From Sta. 2+140 to 2+200

DRAWING SCALE: SHEET NO:

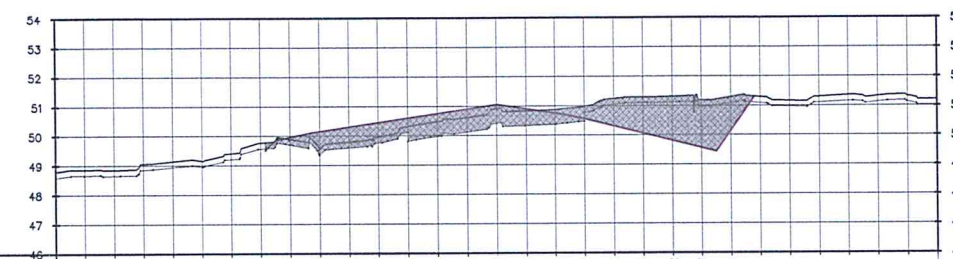
AS SHOWN

2+140.00



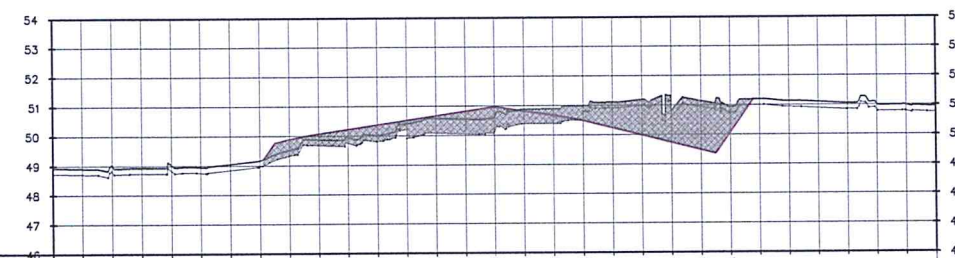
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EXISTING ELEVATIONS	48.63	48.61	48.60	48.06	49.19	49.28	49.52	49.35	49.65	49.81	50.00	50.15	50.30	50.45	50.60	50.75	50.90	50.75	50.60	50.42	50.17	49.92	49.67	49.42	51.06	50.97	50.81	50.72	50.96	50.75	50.61	50.62
OFFSET	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	

2+180.00



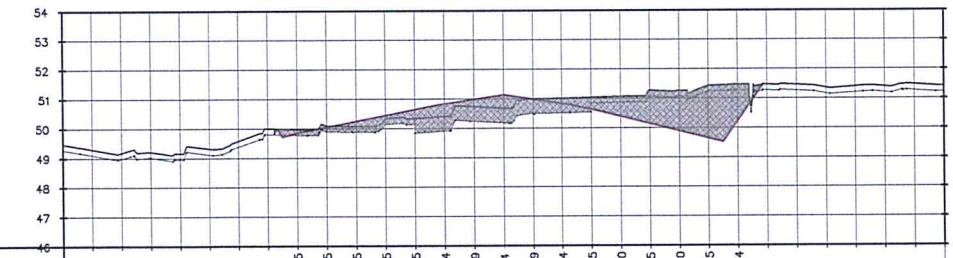
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EXISTING ELEVATIONS	48.79	48.86	48.86	49.06	49.14	49.16	49.42	49.77	49.97	49.56	50.16	50.31	50.46	50.61	50.76	50.91	50.92	51.06	50.91	50.83	50.76	50.68	50.57	50.42	50.32	50.25	50.32	50.07	49.82	49.57	50.16	51.21
OFFSET	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	

2+160.00



PROPOSED ELEVATIONS	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00		
EXISTING ELEVATIONS	48.93	48.91	49.01	48.93	49.04	48.95	49.06	49.18	49.52	49.69	49.88	50.08	50.23	50.38	50.53	50.68	50.83	50.98	50.83	50.68	50.49	50.24	49.99	49.74	49.49	50.08	51.14	51.20	51.14	51.10	51.05	51.01	50.99
OFFSET	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00		

2+200.00



PROPOSED ELEVATIONS	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	
EXISTING ELEVATIONS	48.97	49.30	49.19	49.23	49.16	49.33	49.59	50.01	49.98	49.85	50.10	50.05	50.25	50.45	50.65	50.84	50.99	51.14	50.99	50.99	50.84	50.65	50.40	50.15	49.90	49.65	50.24	51.47	51.47	51.36	51.40	51.47
OFFSET	156.68	140.00	130.00	120.00	110.00	100.00	90.00	80.00	70.00	60.00	50.00	40.00	30.00	20.00	10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	

From Sta. 2+140 to Sta. 2+200

RUNWAY CROSS-SECTIONS

SCALE: 1:1400



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAGA ROAD, 1300 PASAY CITY

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RAUL R. CRUZENA
Division Chief, IDDD-AED

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Department Manager III, AED-ADMS

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Assistant Director General II, ADMS

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Director General

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CAPTAIN JMC SYDIONGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

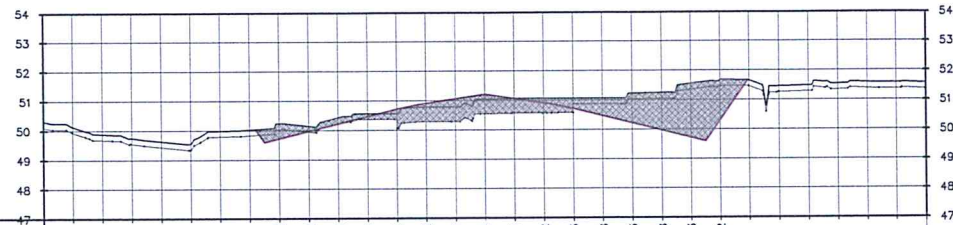
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DEVELOPMENT OF NEW AIRPORT SITE
AT NAGA AIRPORT
EARTHWORKS (FROM STA. 1+180 TO STA. 2+310.83)

LOCATION:
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:
RUNWAY CROSS-SECTIONS
From Sta. 2+220 to 2+280

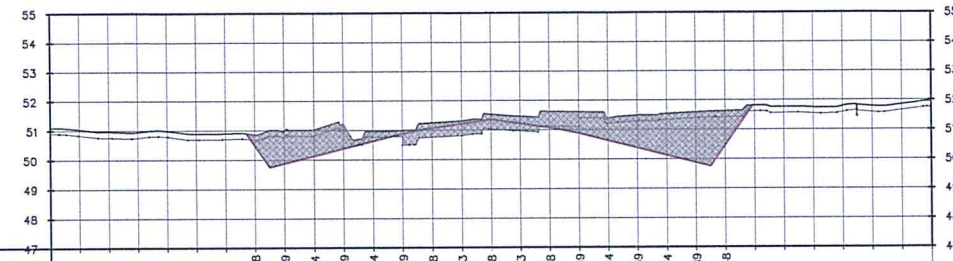
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AS SHOWN

2+220.00



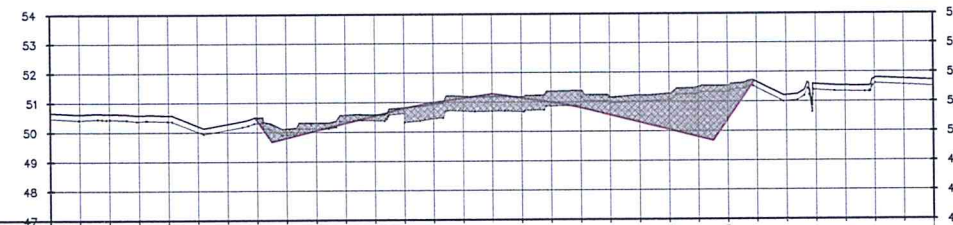
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EXISTING ELEVATIONS	50.00
OFFSET	10.00

2+260.00



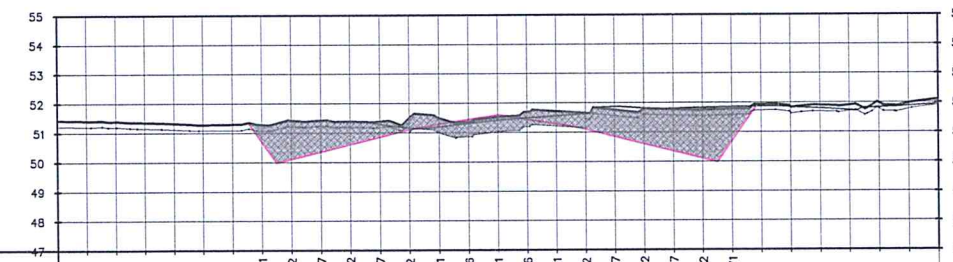
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EXISTING ELEVATIONS	50.00
OFFSET	10.00

2+240.00



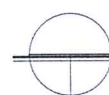
PROPOSED ELEVATIONS	51.00
EXISTING ELEVATIONS	50.00
OFFSET	10.00

2+280.00



PROPOSED ELEVATIONS	51.00
EXISTING ELEVATIONS	50.00
OFFSET	10.00

From Sta. 2+220 to Sta. 2+280



RUNWAY CROSS-SECTIONS

SCALE:

1:1400



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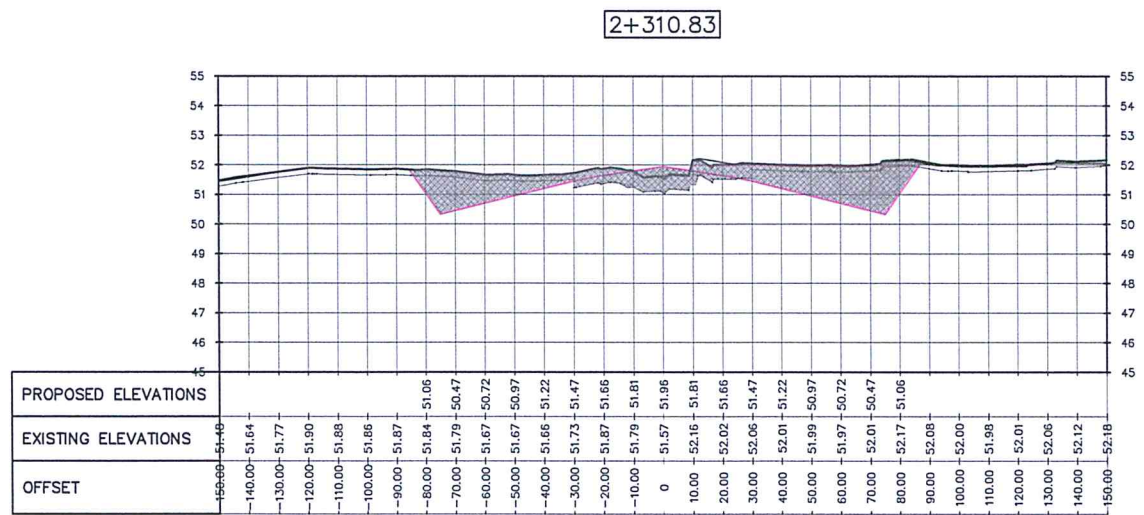
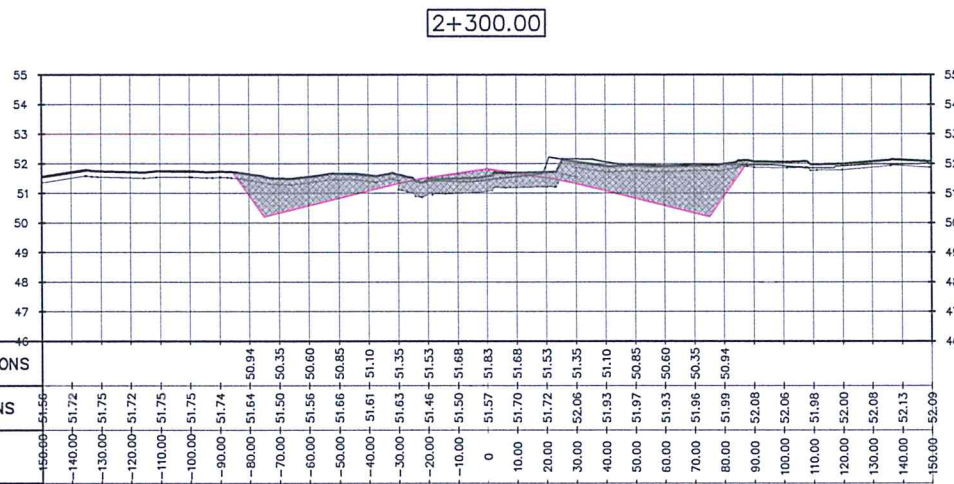
NAGA AIRPORT
NAGA AIRPORT RD, PILI, CAMARINES SUR

SHEET CONTENTS:

RUNWAY CROSS-SECTIONS
From Sta. 2+300 to 2+310.83

DRAWING SCALE: SHEET NO:

AS SHOWN



From Sta. 2+300 to Sta. 2+310.83

RUNWAY CROSS-SECTIONS

SCALE:

1:1400