

REPUBLIC OF THE PHILIPPINES
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:	IDD
DRAWN BY:	E.V.B. (Jan 27)
CHECKED BY:	EJDR

REVIEWED BY:

[Signature]
RAUL A. CRUCENA
Division Chief, IDD - ADMS

SUBMITTED BY:

[Signature]
ARNEL F. BORLADO
Department Manager II, AED-ADMS

RECOMMENDED APPROVAL:

[Signature]
LT COL VALENTINO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

[Signature]
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

BORONGAN AIRPORT DEVELOPMENT PROJECT

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:


A"


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AND MANAGEMENT SERVICE**

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION


DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (janz27)
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. CRUCENA
 Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
 Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

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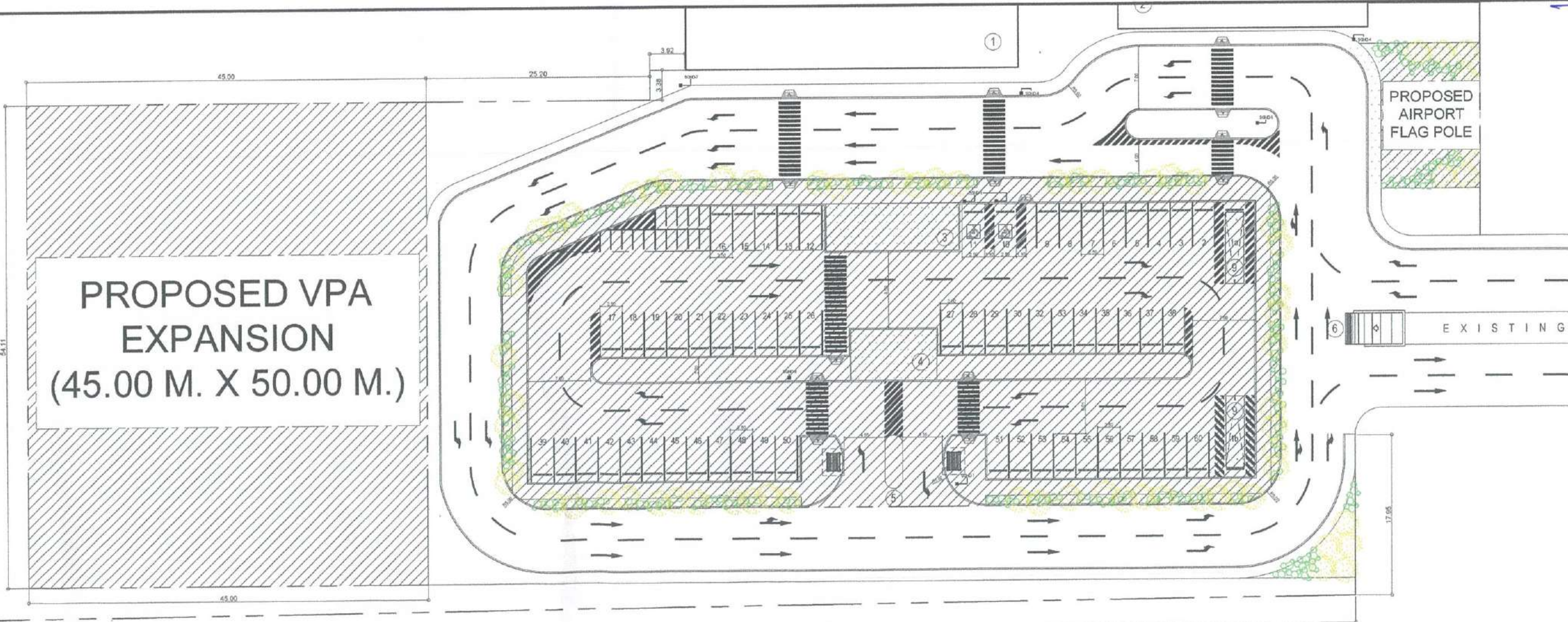
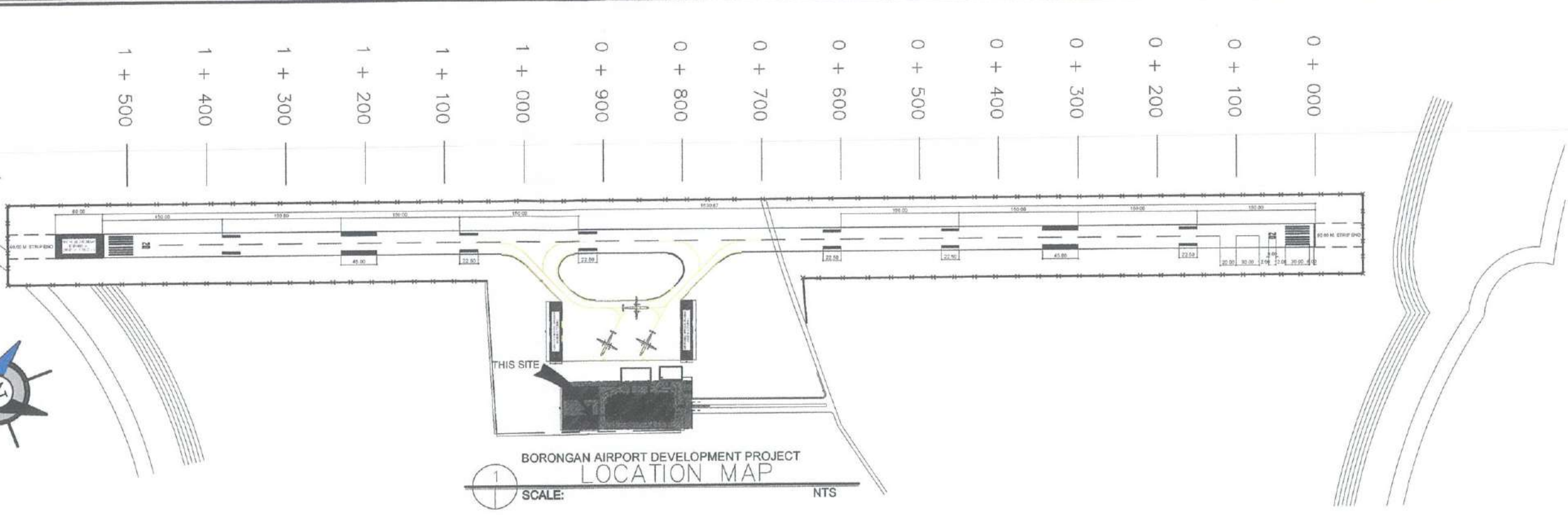
NOTES/REVISIONS:

PROJECT:
**BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR
PARKING AREA**

LOCATION:
**BORONGAN AIRPORT
BORONGAN**

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.:
AS SHOWN	01



COMPLETION OF VEHICULAR PARKING AREA
EXISTING VEHICULAR PARKING AREA
 SCALE: NTS



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DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (langz27)
CHECKED BY:	EJDR

REVIEWED BY:

Raul R. Cruzena
Division Chief III, IDDD - ADMS

SUBMITTED BY:

Arnel F. Borlado
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

LT Col Valentin A. Dionela, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

Captain Manuel Antonio L. Tamayo
Director General

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PROJECT:

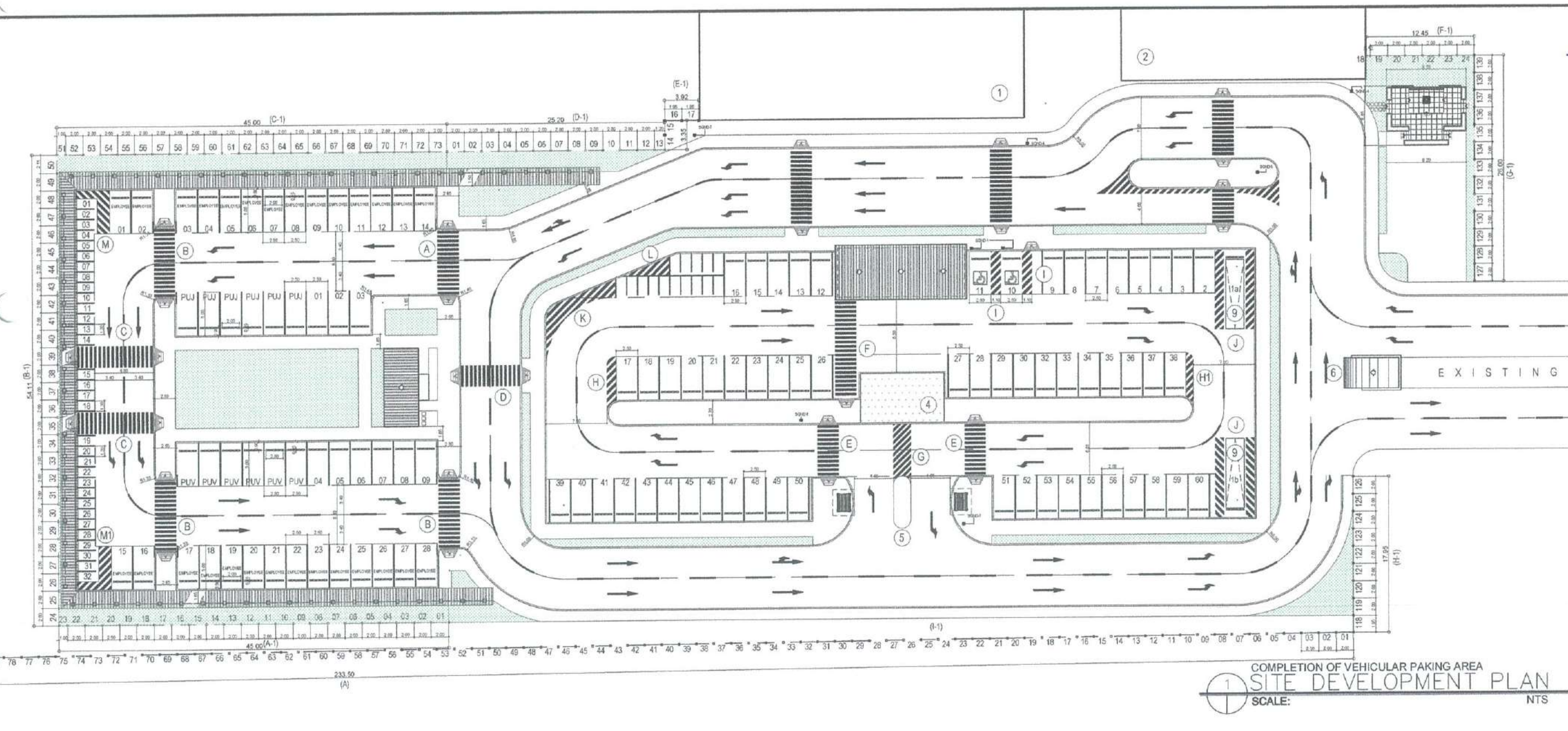
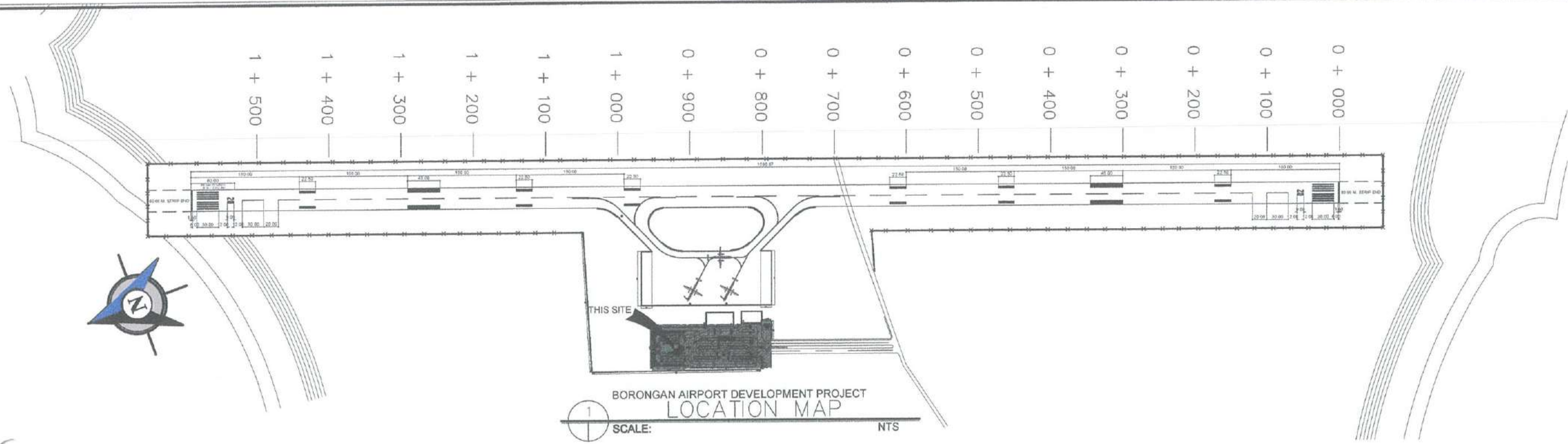
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR
PARKING AREA

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	02





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DRAWN BY:	E.V.B / L.D.
CHECKED BY:	EJDR

REVIEWED BY:

[Signature]

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

[Signature]

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

[Signature]

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

APPROVED:

[Signature]

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BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR
PARKING AREA

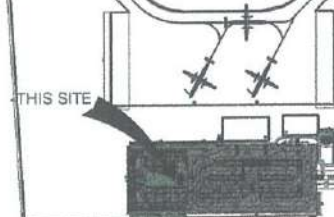
LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
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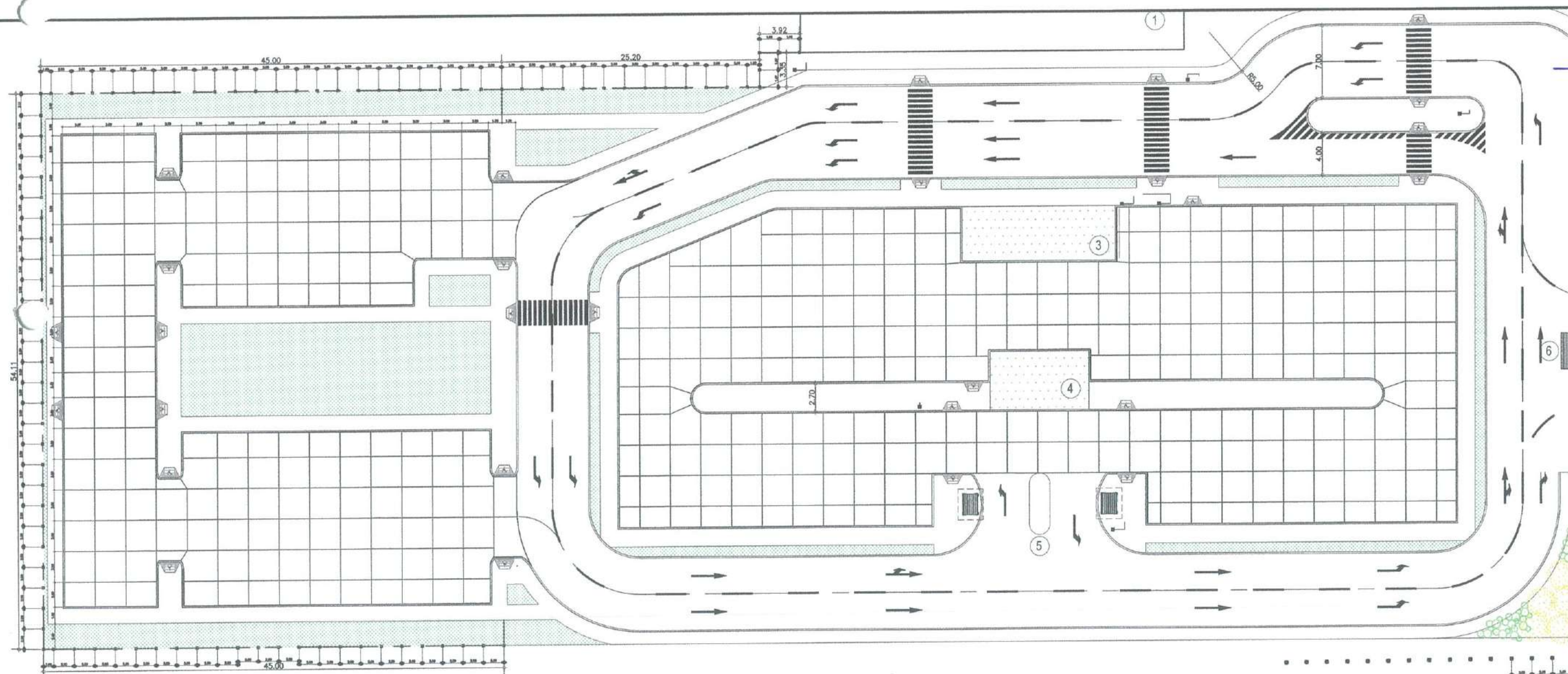
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1 + 300
1 + 400
1 + 500



BORONGAN AIRPORT DEVELOPMENT PROJECT
LOCATION MAP



SCALE: NTS



COMPLETION OF VEHICULAR PARKING AREA

VEHICULAR PARKING AREA BLOCKING PLAN



SCALE: NTS



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DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	1DDD
DRAWN BY:	E.V.B / L.D.
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, DDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

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BORONGAN AIRPORT DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING AREA

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	04

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0 + 600
0 + 500
0 + 400
0 + 300
0 + 200
0 + 100
0 + 000

LEGEND:

- TYPE C (TC)- DOWELED CONTRACTION
- TYPE D (TD)- DUMMY CONTRACTION
- TYPE E (TA)- ISOLATION JOINT

BORONGAN AIRPORT DEVELOPMENT PROJECT
LOCATION MAP

SCALE:

NTS

COMPLETION OF VEHICULAR PARKING AREA
VEHICULAR PARKING AREA PAVING PLAN

SCALE:

NTS

LEGEND:

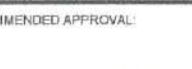
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DRAWN BY:	E.V.B / L.D.
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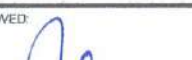
REVIEWED BY:


RAUL R. ORCENA
Division Chief III, IODD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

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Director General

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BORONGAN AIRPORT DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING AREA

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

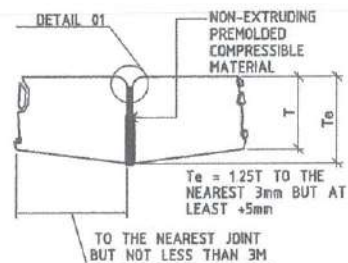
DRAWING SCALE:	SHEET NO:
AS SHOWN	05

DIMENSIONS AND SPACING OF STEEL DOWELS

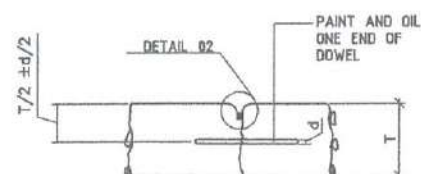
PAVEMENT THICKNESS	DOWELS					
	CONTRACTION JOINTS			CONSTRUCTION JOINTS		
	DIAMETER ϕ	LENGTH	SPACING	DIAMETER ϕ	LENGTH	SPACING
7.5" - 12" (191mm - 305mm)	16 mm DRSB	18 in (460 mm)	12 in (305 mm)	1 in (25 mm)	18 in (460 mm)	12 in (305 mm)

NOTES:

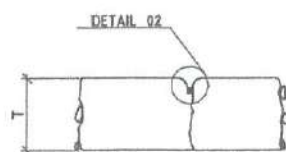
1. ALL STEEL DOWELS SHALL BE SUPPORTED AND HELD IN PLACE IN AN APPROVED ASSEMBLY.
2. ALL STEEL DOWELS SHALL BE OF GRADE 60 (60,000 psi / 414 MPa).
3. ALL FORMED JOINTS SHALL BE FINISHED WITH RADIUS OF 6mm OR 13mm.
4. ALL GROOVES OF CONTRACTION JOINTS SHALL BE SAWED WITHIN 24 HOURS.
5. WHERE PAVING OPERATIONS ARE DELAYED OR STOPPED, PROVIDE DOWELED CONSTRUCTION JOINT.
6. CONCRETE BLOCKING SHALL BE 3.0m BY 3.0m, UNLESS OTHERWISE GOVERNED BY ABUTTING EDGE.
7. ALL PAVING JOINTS SHALL BE FILLED WITH JOINT SEALANT AS SPECIFIED.
8. PROVIDE PIN HOLDERS EVERY 1.5M AT TRANSVERSE JOINTS



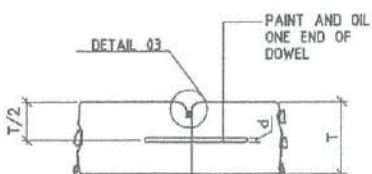
TYPE A (TA) - THICKENED EDGE (ISOLATION JOINT)



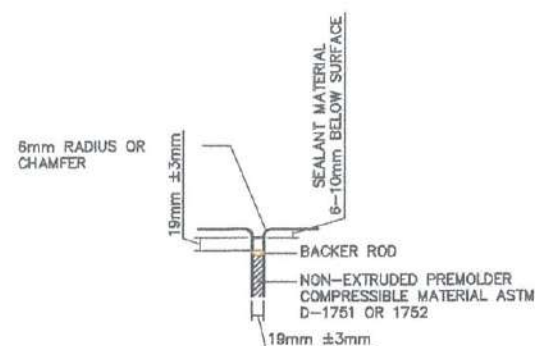
TYPE C (TC) - DOWELED CONTRACTION



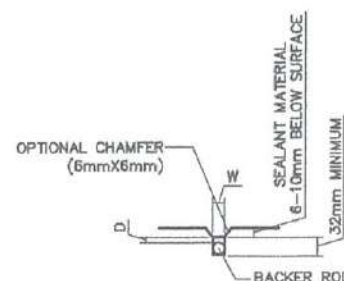
TYPE D (TD) - DUMMY CONTRACTION



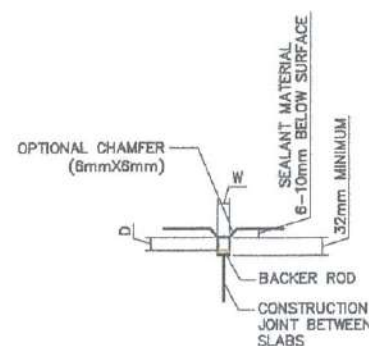
TYPE E (TE) - DOWELED CONSTRUCTION



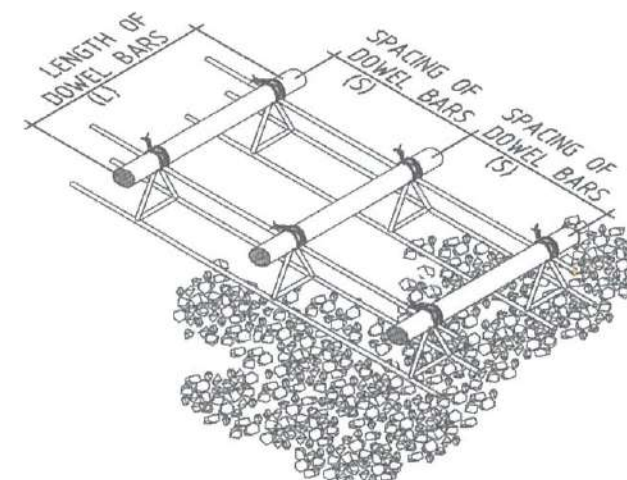
DETAIL 01



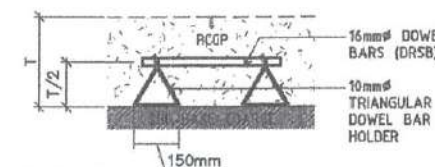
DETAIL 02



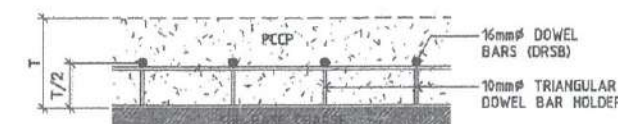
DETAIL 03



ISOMETRIC



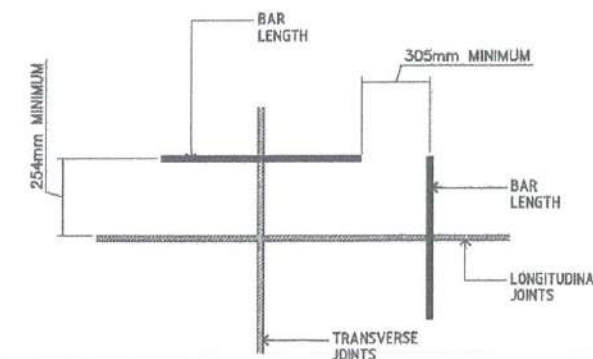
ISOMETRIC



SECTION



DOWEL BAR HOLDER



POSITION OF DOWELS AT EDGE OF JOINT



DETAIL OF PAVING JOINTS



DETAIL OF JOINT SEALANT



POSITION OF DOWELS AT EDGE OF JOINT



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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (janz27)
CHECKED BY:	E/DJR
REVIEWED BY:	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MARCEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR
PARKING AREA

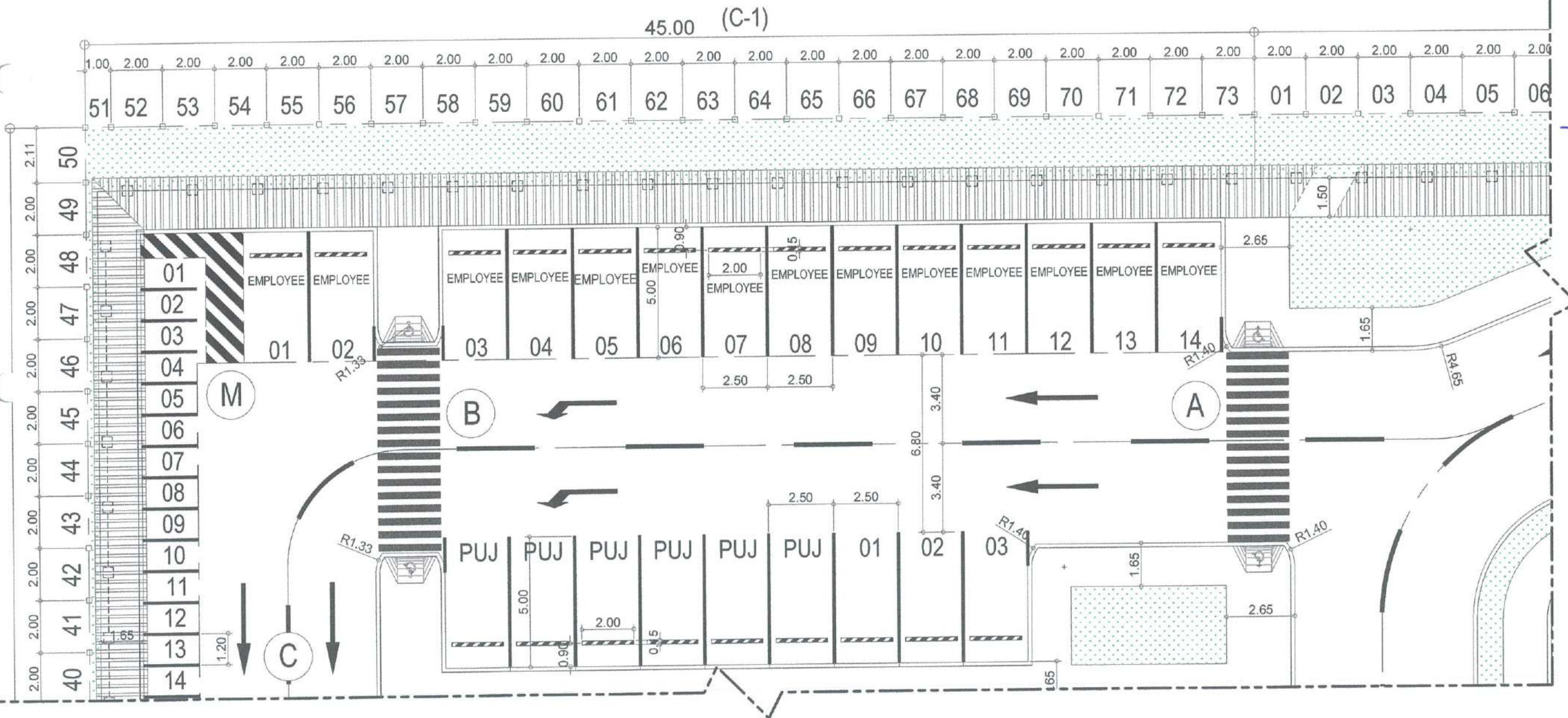
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	06



COMPLETION OF VEHICULAR PAKING AREA
KEY PLAN
SCALE: NTS



COMPLETION OF VEHICULAR PAKING AREA
DETAILED A PLAN
SCALE: 1:100 MTRS



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DESIGNED BY:	IODD
DRAWN BY:	E.V.B. (janz27)
CHECKED BY:	EJQJR

REVIEWED BY:

RAUL R. GRUCENA
Division Chief III, IOD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

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COMPLETION OF VEHICULAR
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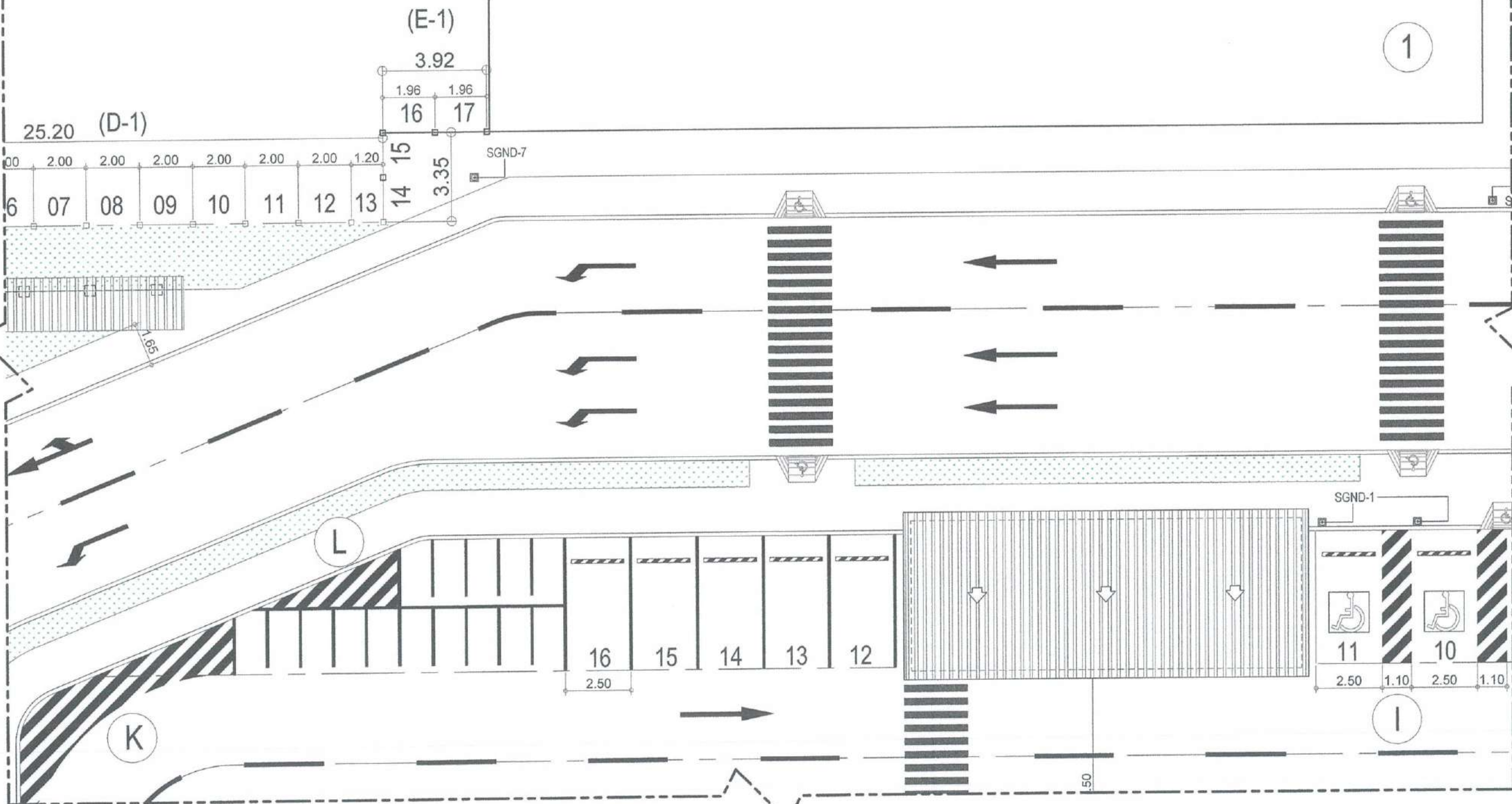
LOCATION:
BORONGAN AIRPORT
BORONGAN

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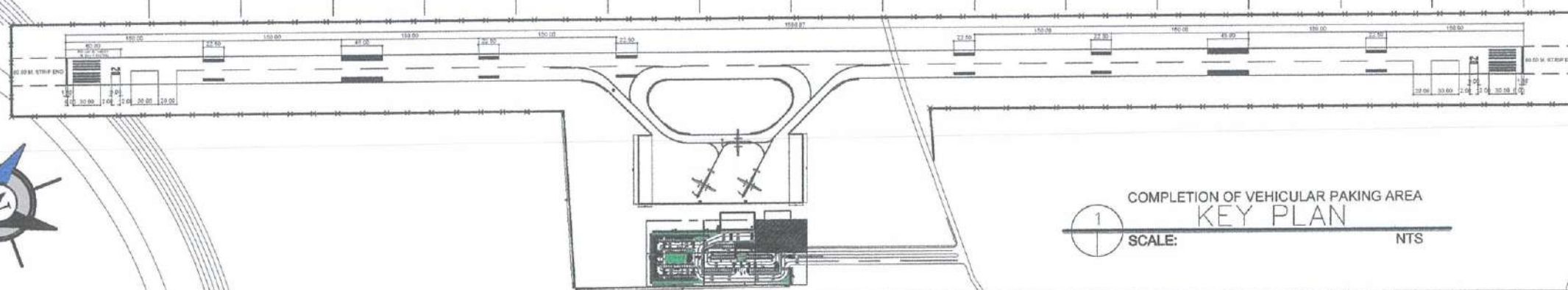
DRAWING SCALE:	SHEET NO:
AS SHOWN	07



COMPLETION OF VEHICULAR PAKING AREA
KEY PLAN
SCALE: NTS



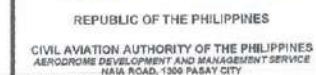
COMPLETION OF VEHICULAR PAKING AREA
DETAILED B PLAN
SCALE: 1:100 MTRS



COMPLETION OF VEHICULAR PARKING AREA
KEY PLAN

1

SCALE: _____ NTS



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DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDD
DRAWN BY:	E.V.B (jangz27)
CHECKED BY:	EJDJR

REVIEWED BY:

~~RAUL R. CRUCENA~~
Division Chief III, IDDD - ADM

SUBMITTED BY

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED

CAPTAIN MANUEL ANTONIO L. TAMAYO
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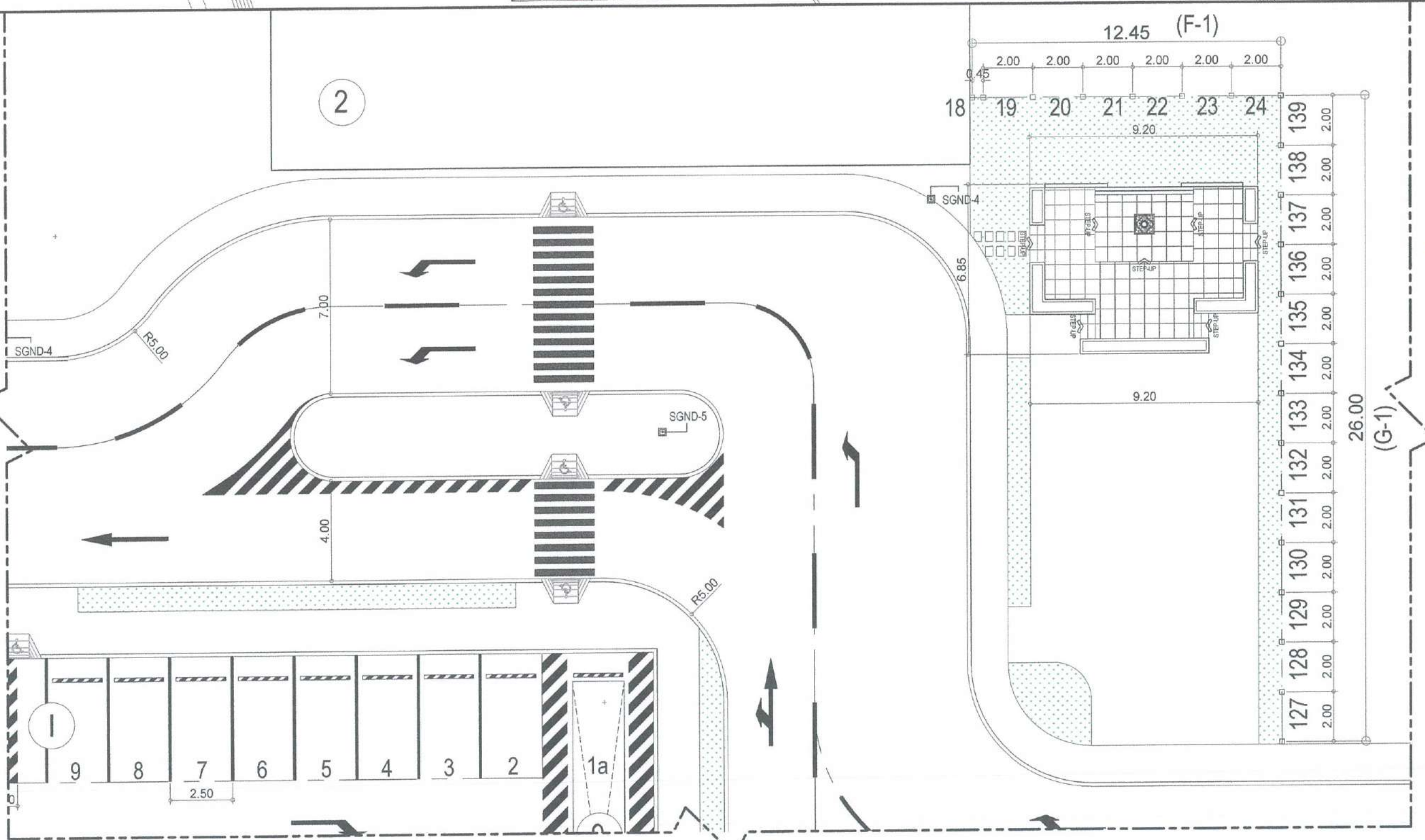
**BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR
PARKING AREA**

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	



COMPLETION OF VEHICULAR PARKING AREA
DETAILED C PLAN

SCALE: 1:100 MTRS



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Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, ADMS

RECOMMENDED APPROVAL:

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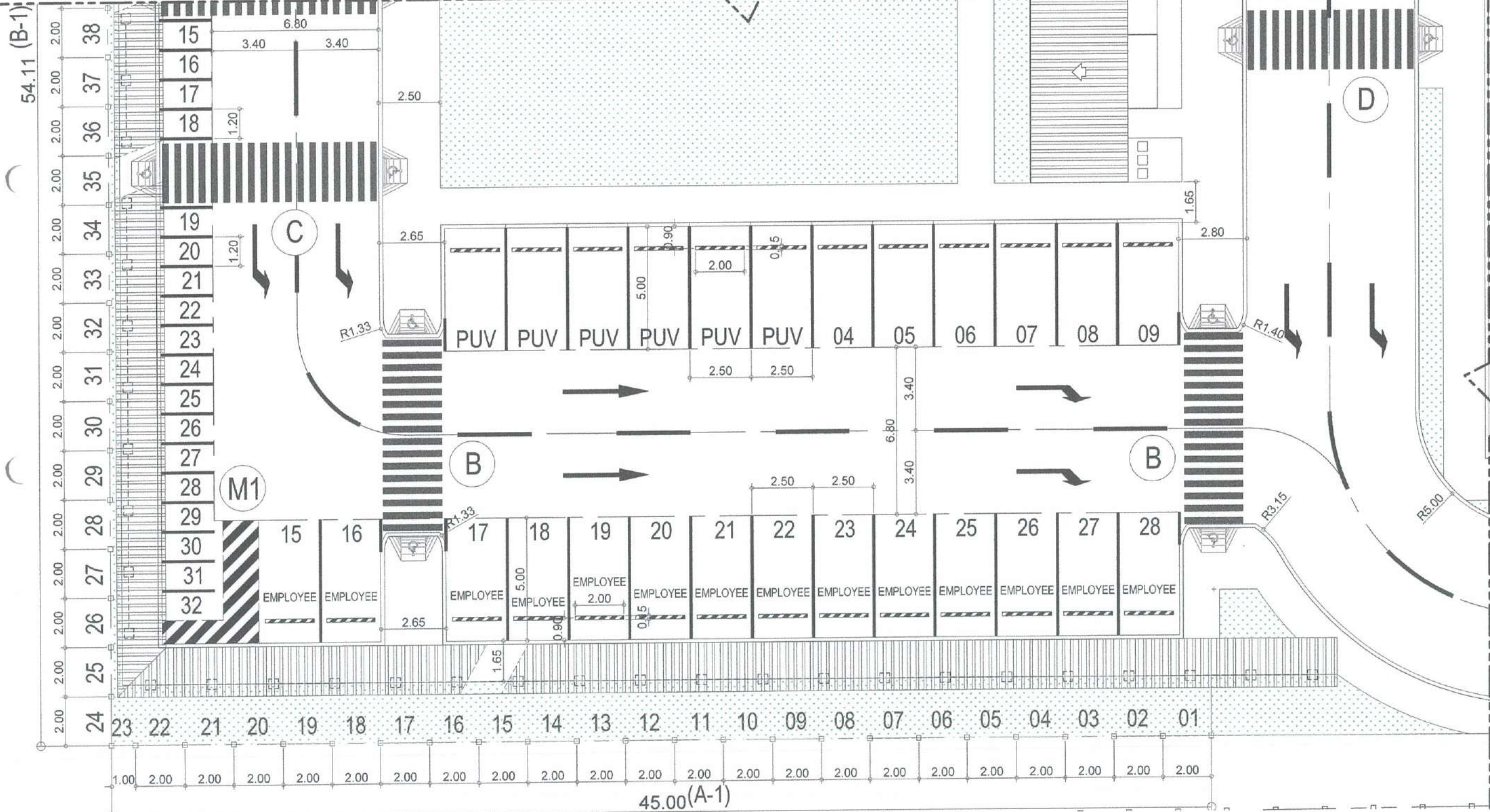
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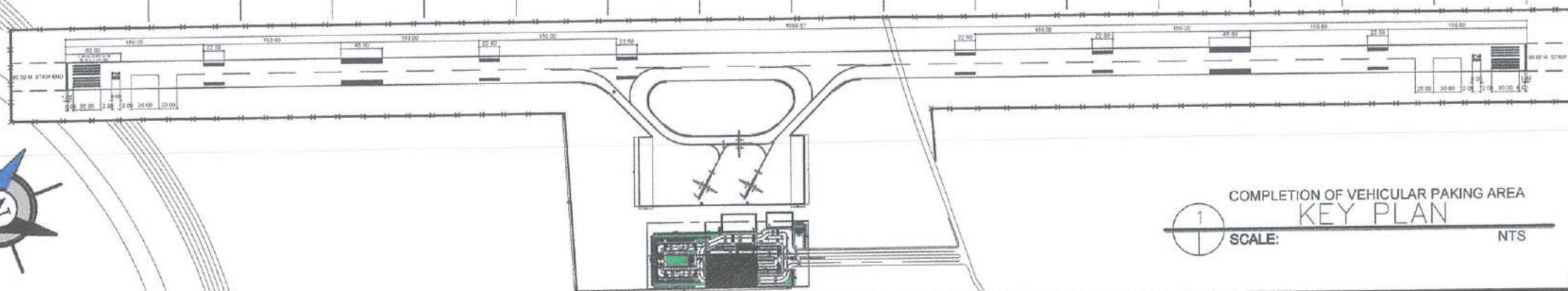
DRAWING SCALE:	SHEET NO:
AS SHOWN	09



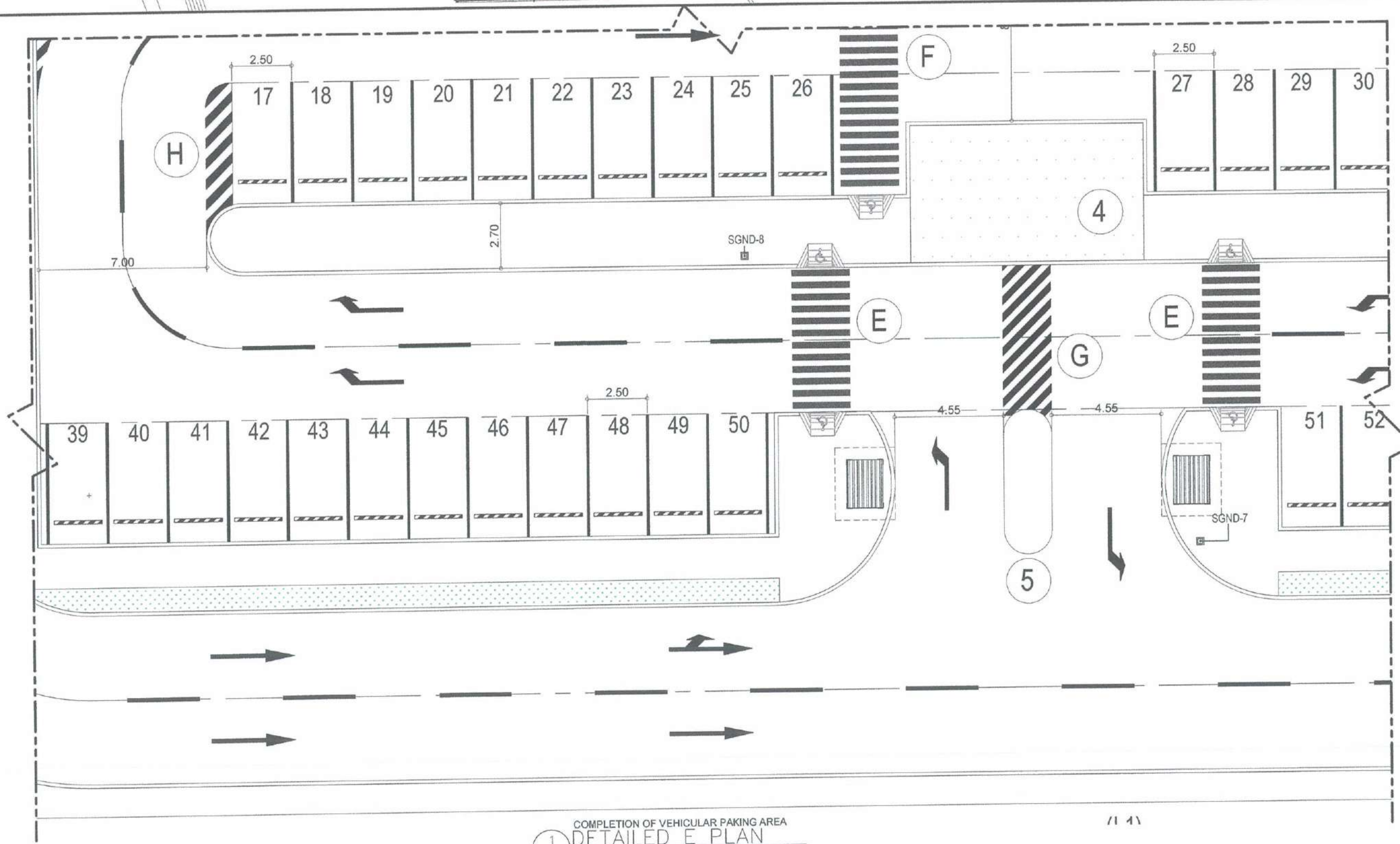
COMPLETION OF VEHICULAR PAKING AREA
KEY PLAN
SCALE: NTS



COMPLETION OF VEHICULAR PAKING AREA
DETAILED D PLAN
SCALE: 1:100 MTRS



COMPLETION OF VEHICULAR PARKING AREA
KEY PLAN
SCALE: NTS



COMPLETION OF VEHICULAR PARKING AREA
DETAILED E PLAN
SCALE: 1:100 MTRS



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DRAWING SCALE:	SHEET NO.
AS SHOWN	10



COMPLETION OF VEHICULAR PARKING AREA
KEY PLAN
SCALE: NTS



REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 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:	E.V.B. (kngz27)
CHECKED BY:	E.DJR

REVIEWED BY:

[Signature]
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

[Signature]
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

[Signature]
LT COL VALENTINO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

[Signature]
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

NO.	DESCRIPTION

PROJECT:

BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR
PARKING AREA

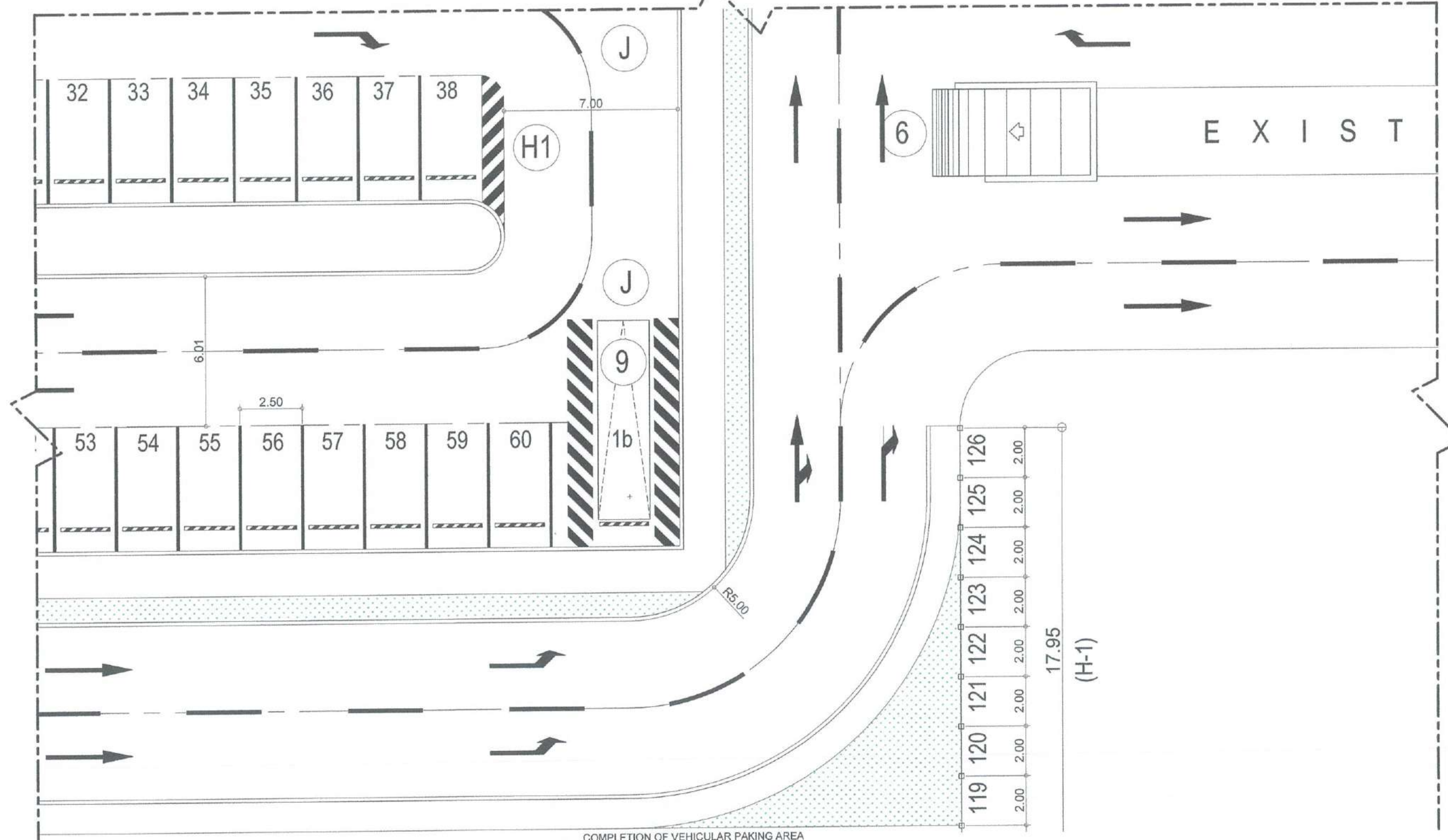
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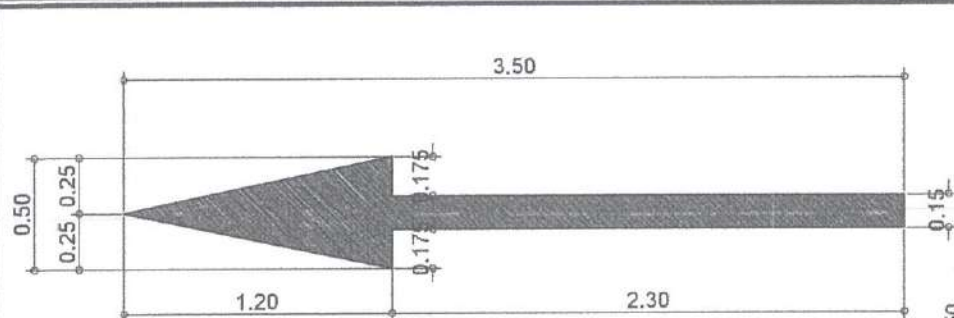
BORONGAN AIRPORT
BORONGAN

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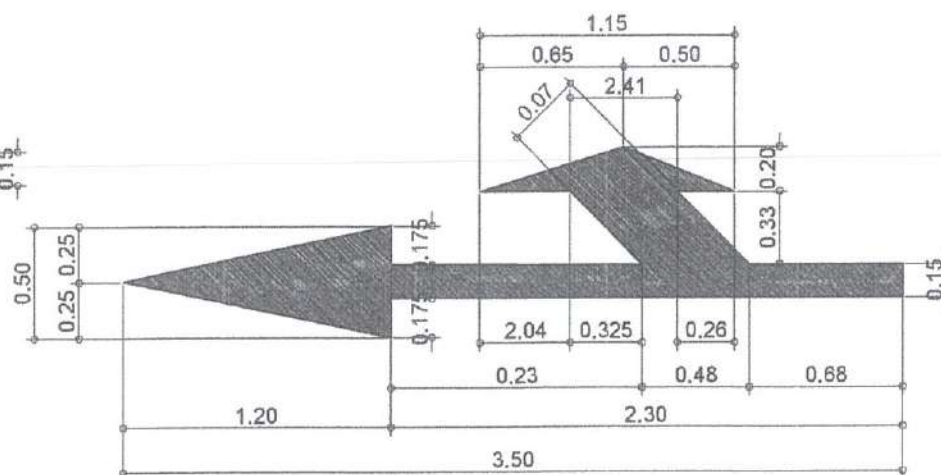
DRAWING SCALE:	SHEET NO:
AS SHOWN	11

COMPLETION OF VEHICULAR PARKING AREA
DETAILED F PLAN
SCALE: 1:100 MTRS

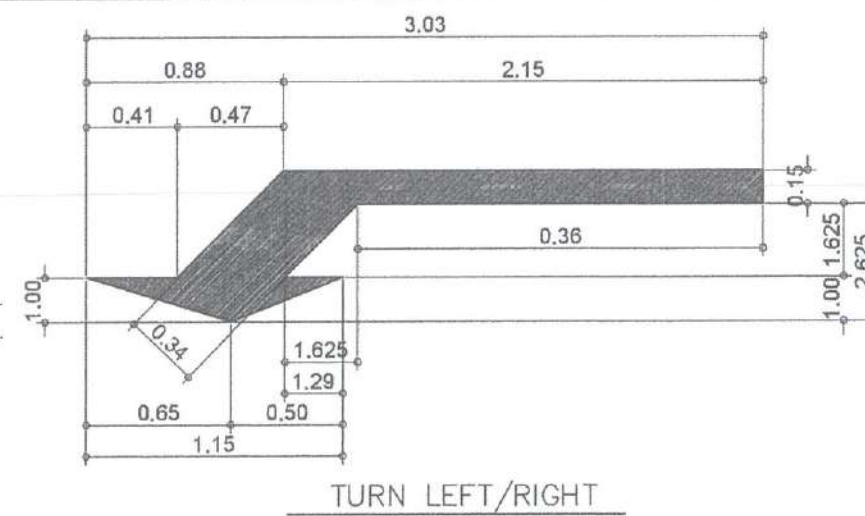




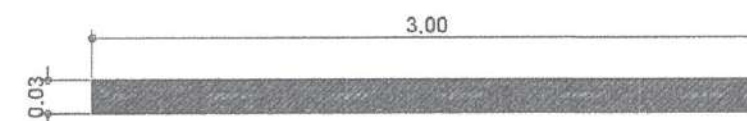
STRAIGHT AHEAD



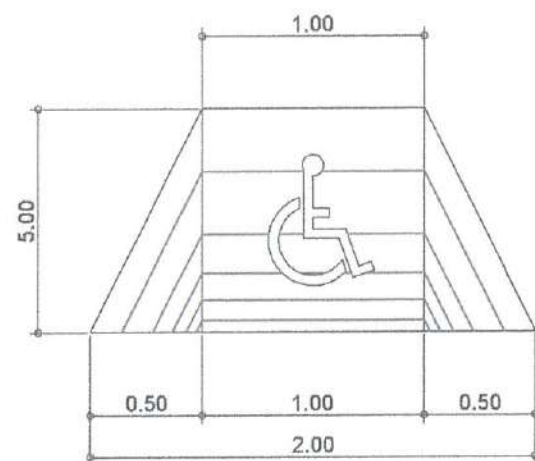
STRAIGHT WITH TURN LEFT/RIGHT



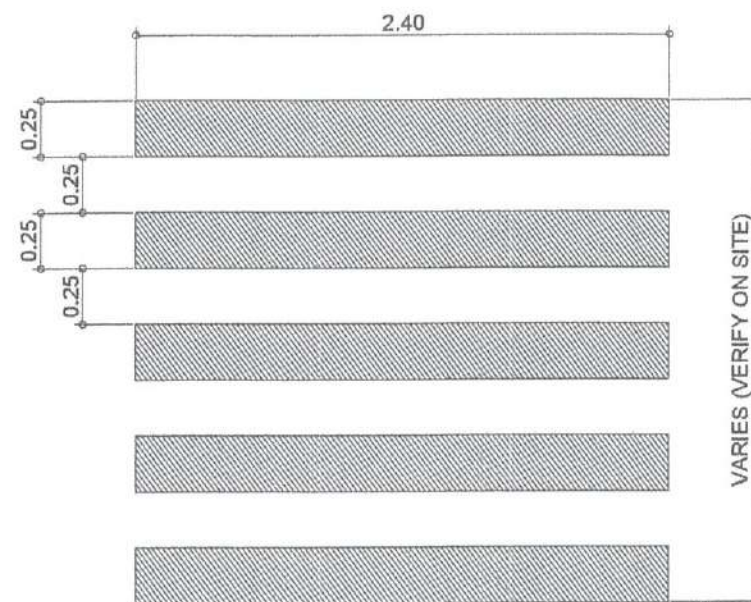
TURN LEFT/RIGHT



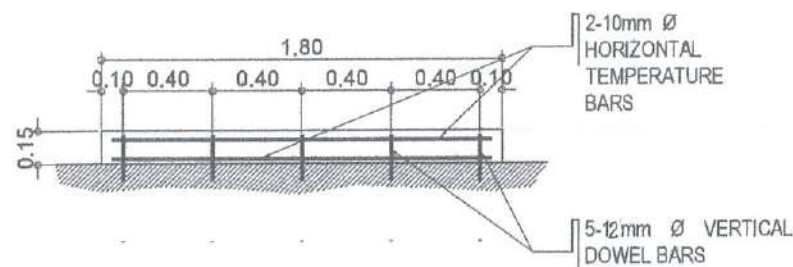
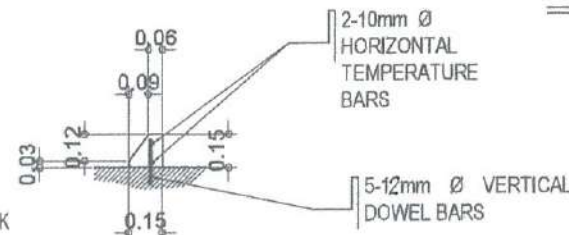
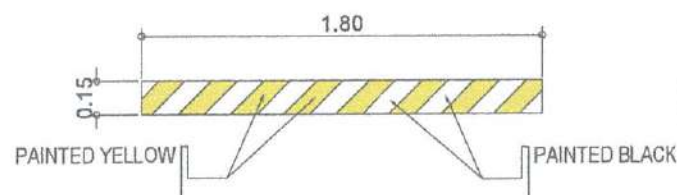
BROKEN CENTER LINE



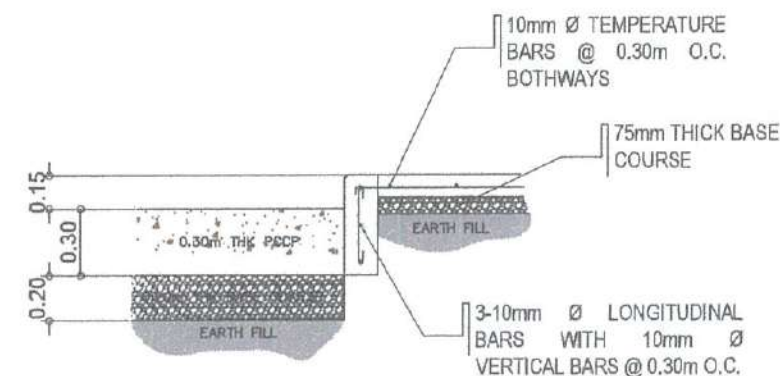
CURB PWD RAMP



PEDESTRIAN LANE





WHEEL STOP DETAIL



CONCRETE CURB DETAIL

COMPLETION OF VEHICULAR PARKING AREA
ROAD SURFACE MARKINGS
SCALE: 1:20 MTRS

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NIA ROAD, 1384 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:	E.V.B. (Jangz27)
CHECKED BY:	E.JD.JR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

BORONGAN AIRPORT DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING AREA

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	12



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AND DESIGN DIVISION

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DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (jngz27)
CHECKED BY:	EJDR

REVIEWED BY:

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Department Manager III AED-ADMS

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Director General

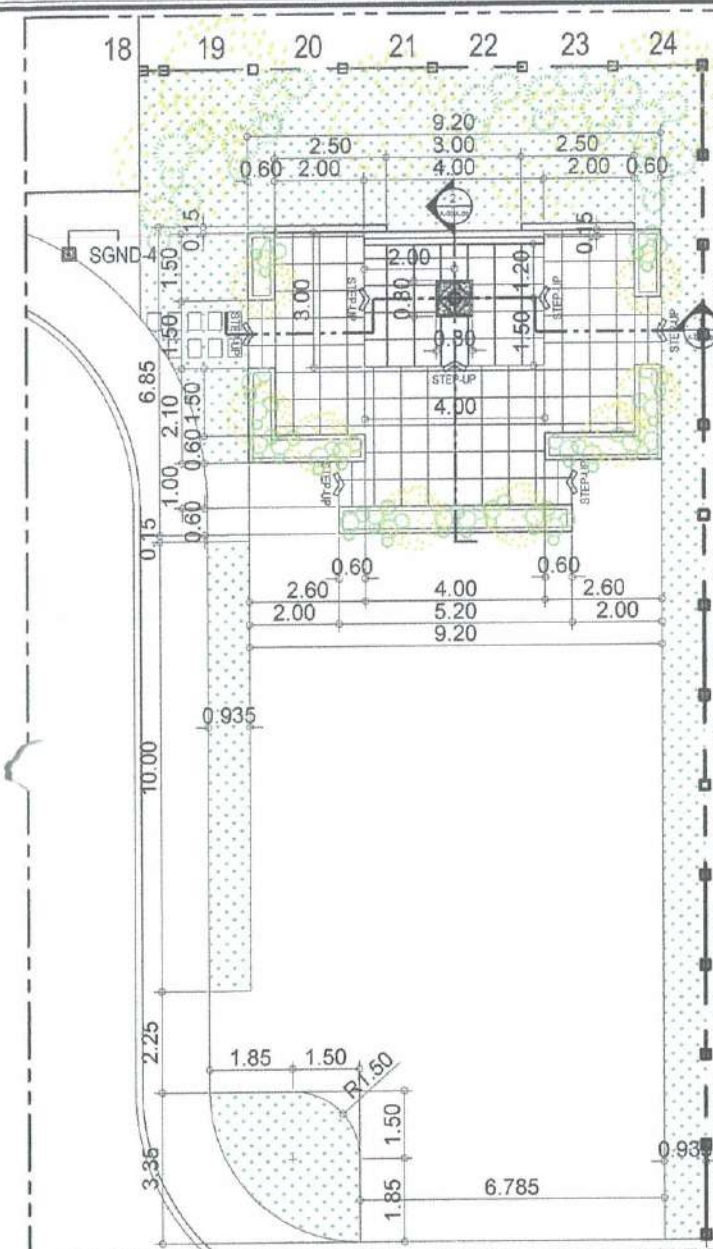
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR
PARKING AREA

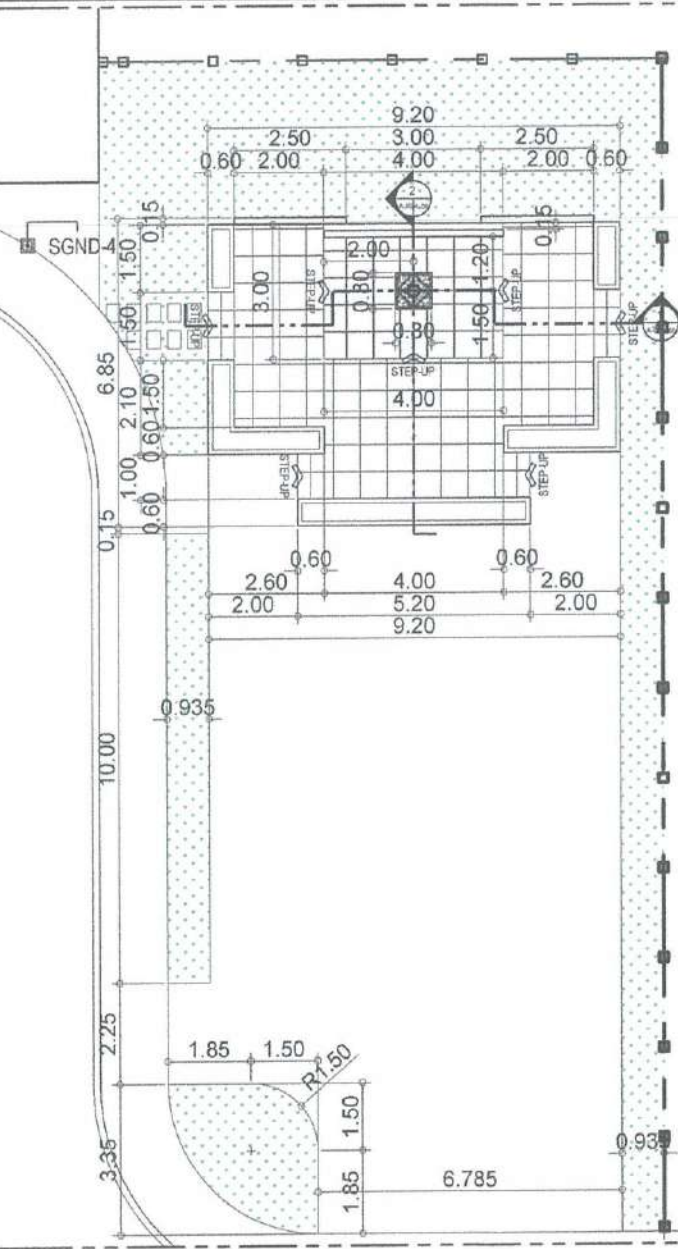
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

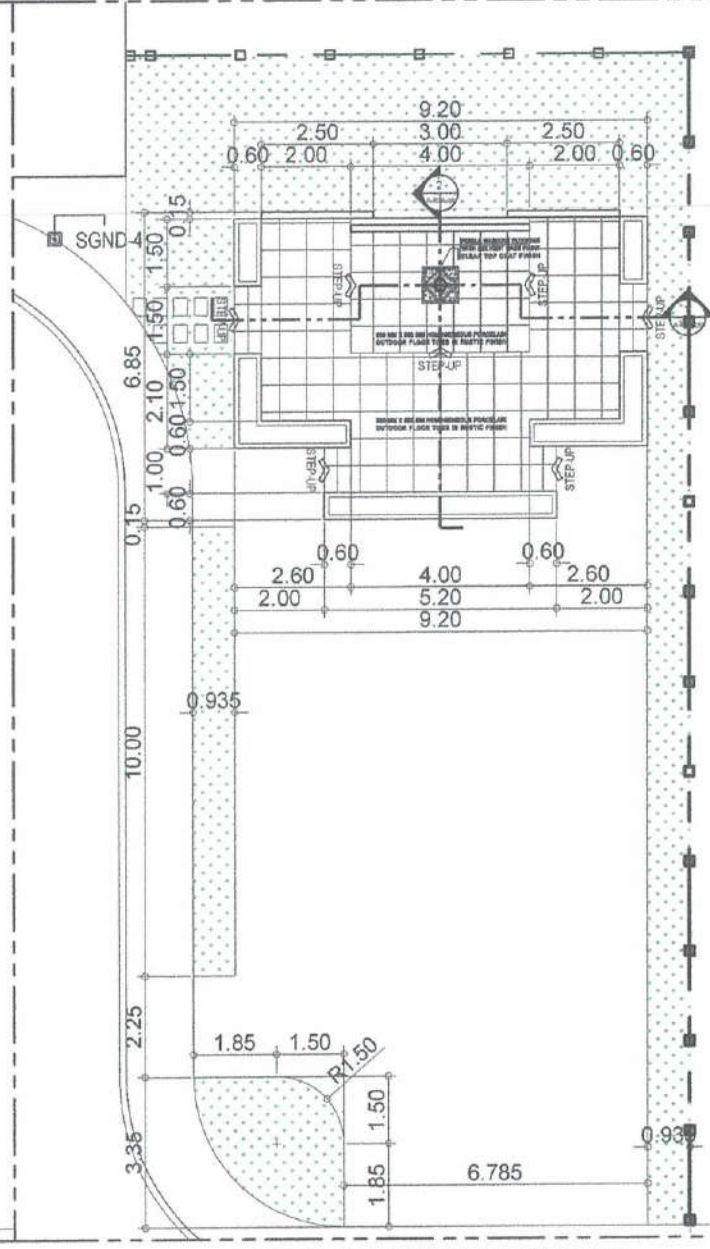
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AS SHOWN	13



COMPLETION OF VEHICULAR PAKING AREA
PROPOSED FLAG POLE
SCALE: 1:100 MTRS



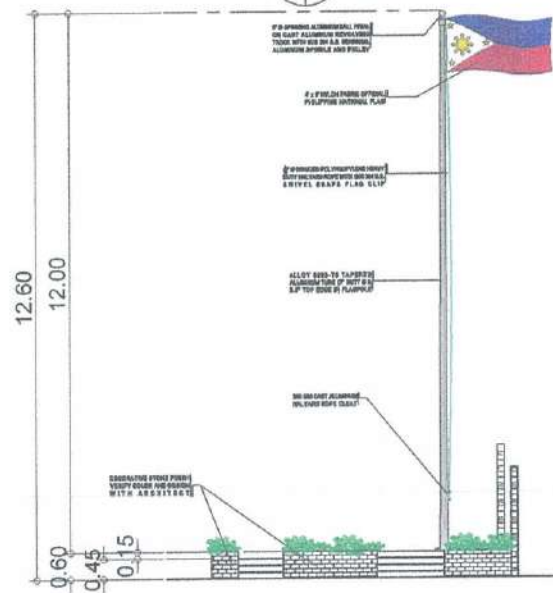
COMPLETION OF VEHICULAR PAKING AREA
FLAG POLE PLAN
SCALE: 1:100 MTRS



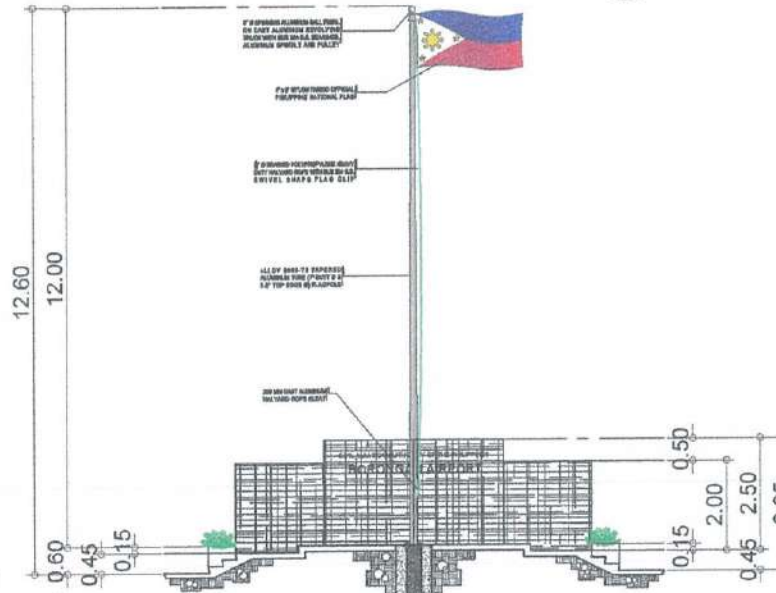
COMPLETION OF VEHICULAR PAKING AREA
FLOOR TILE DETAIL
SCALE: 1:100 MTRS



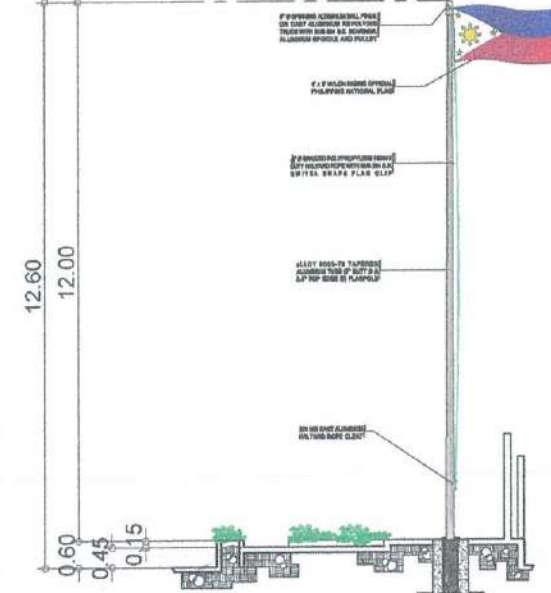
COMPLETION OF VEHICULAR PAKING AREA
FRONT ELEVATION
SCALE: 1:100 MTRS



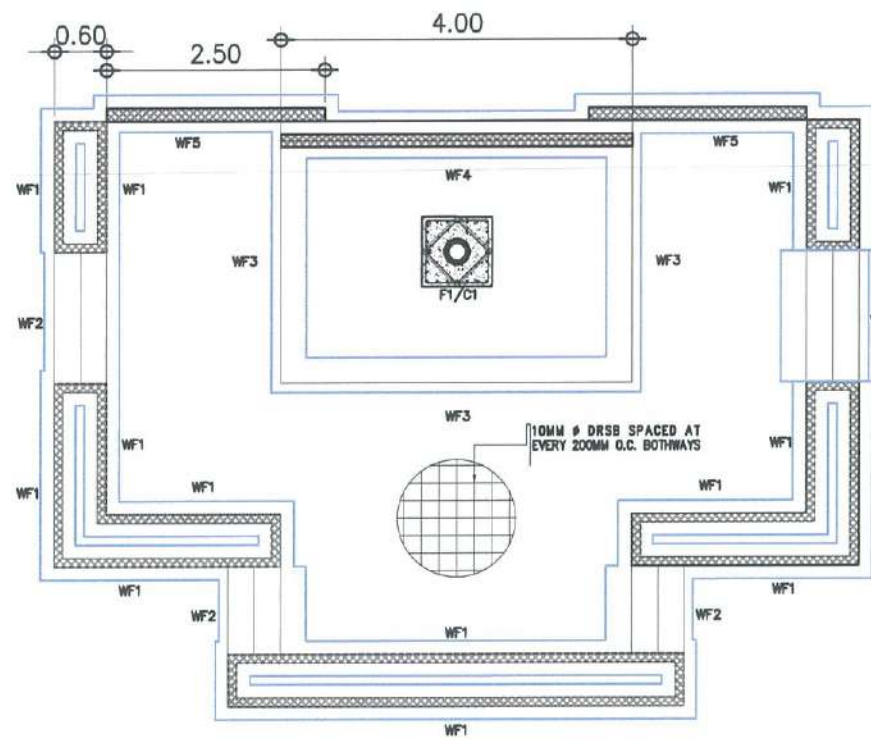
COMPLETION OF VEHICULAR PAKING AREA
SIDE ELEVATION
SCALE: 1:100 MTRS



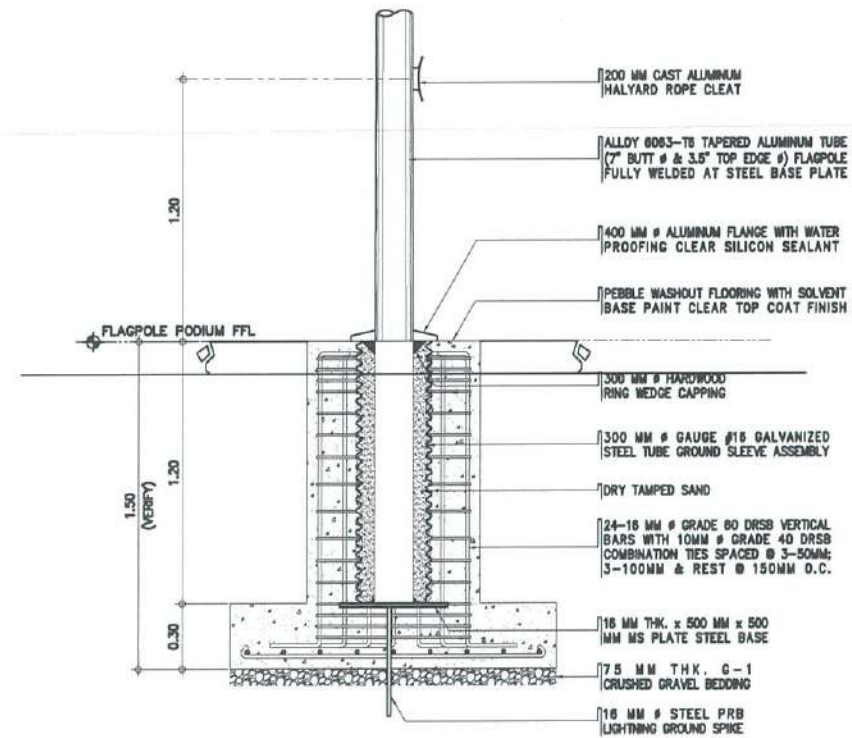
COMPLETION OF VEHICULAR PAKING AREA
SECTION THRU 1
SCALE: 1:100 MTRS



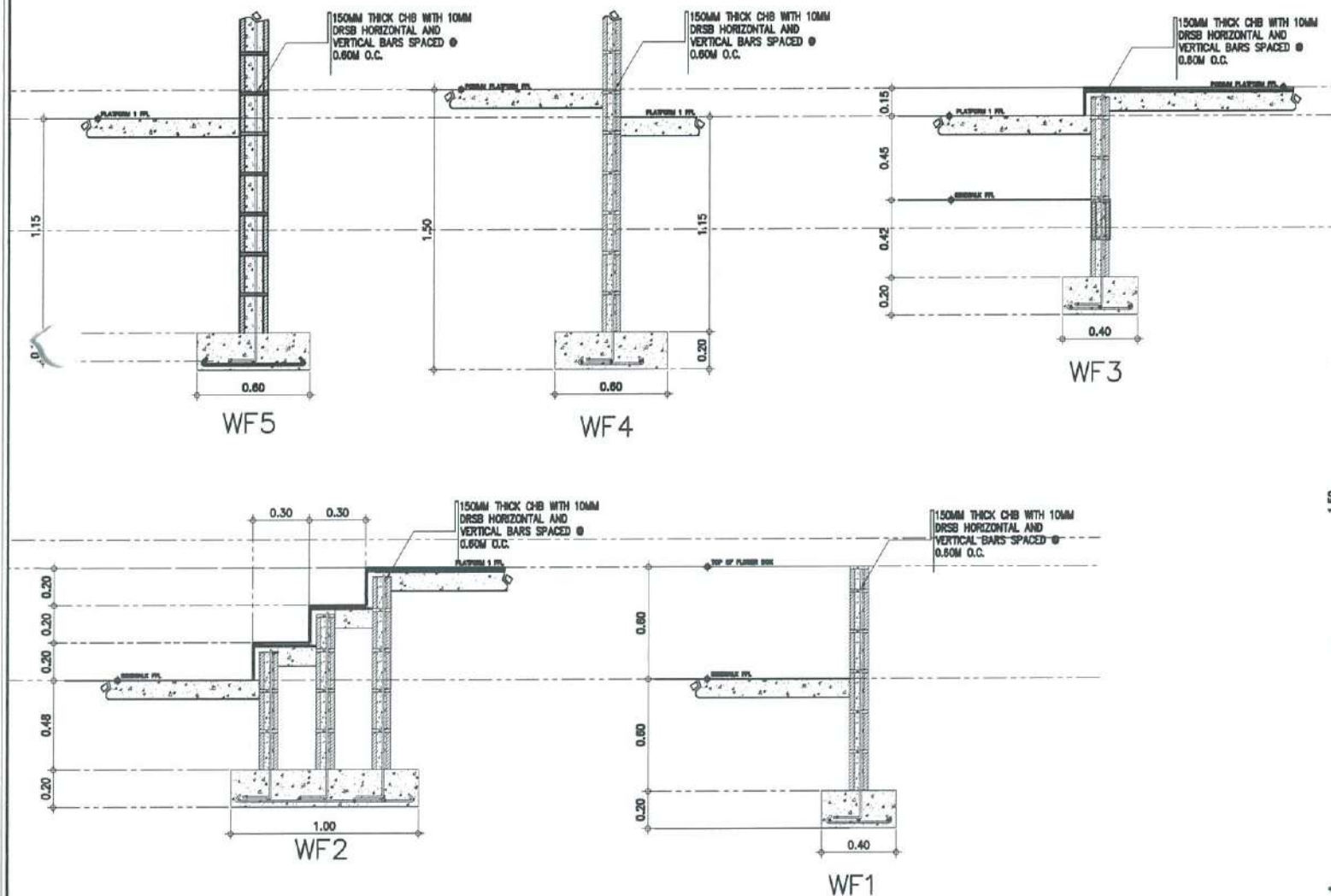
COMPLETION OF VEHICULAR PAKING AREA
SECTION THRU 2
SCALE: 1:100 MTRS



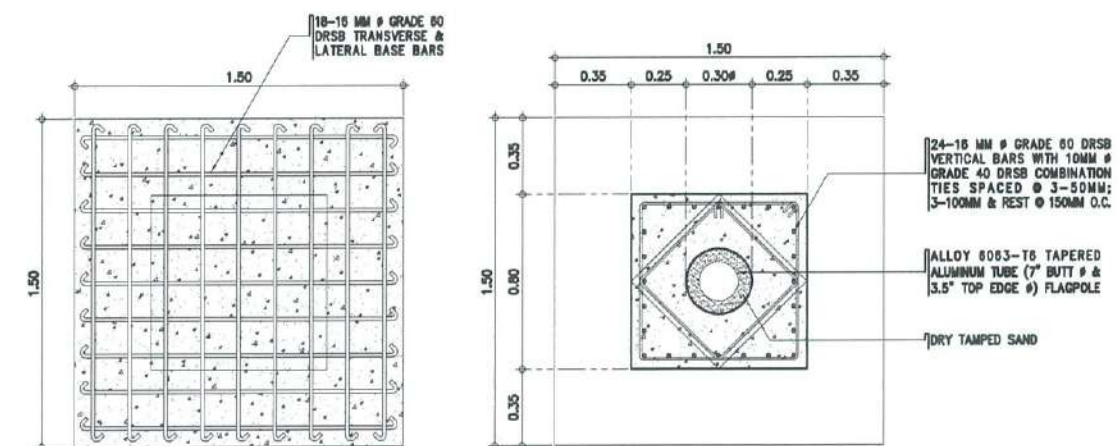
FLAG POLE FOUNDATION PLAN



FLAG POLE SECTION DETAIL



WALL FOOTING DETAIL



FLAG POLE FOOTING DETAIL

1 FLAG POLE STRUCTURAL DETAIL
SCALE: 1:100 MTRS

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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:	E.V.B. (janz27)
CHECKED BY:	EJDR

REVIEWED BY:

[Signature]
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

[Signature]
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

[Signature]
LT COL VALENTINO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

[Signature]
CAPTAIN MARCEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

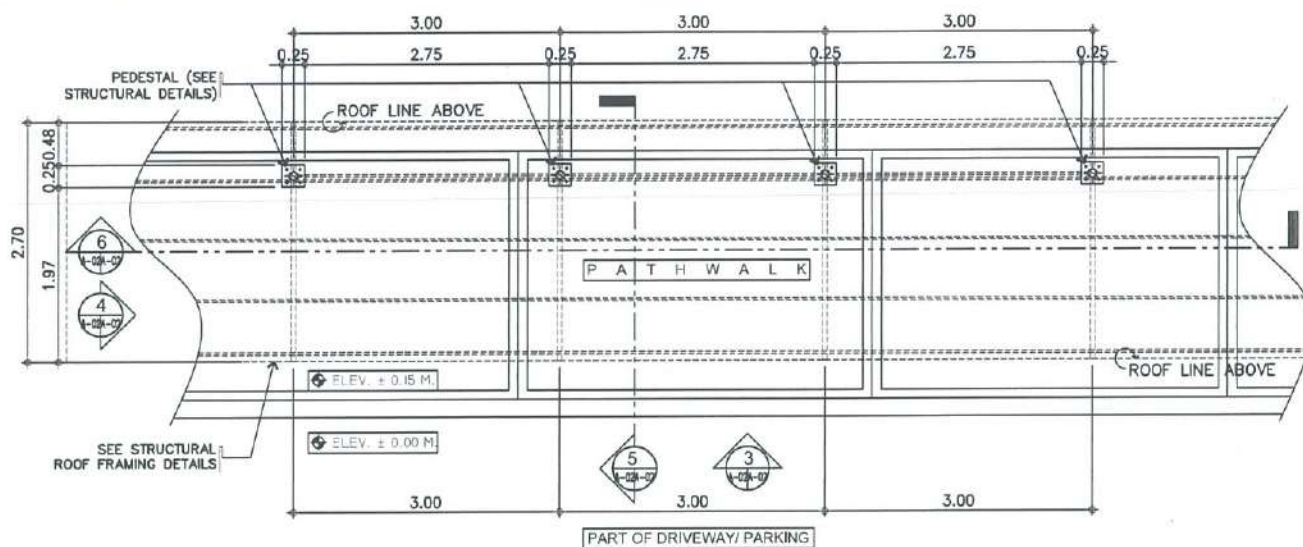
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING AREA

LOCATION:

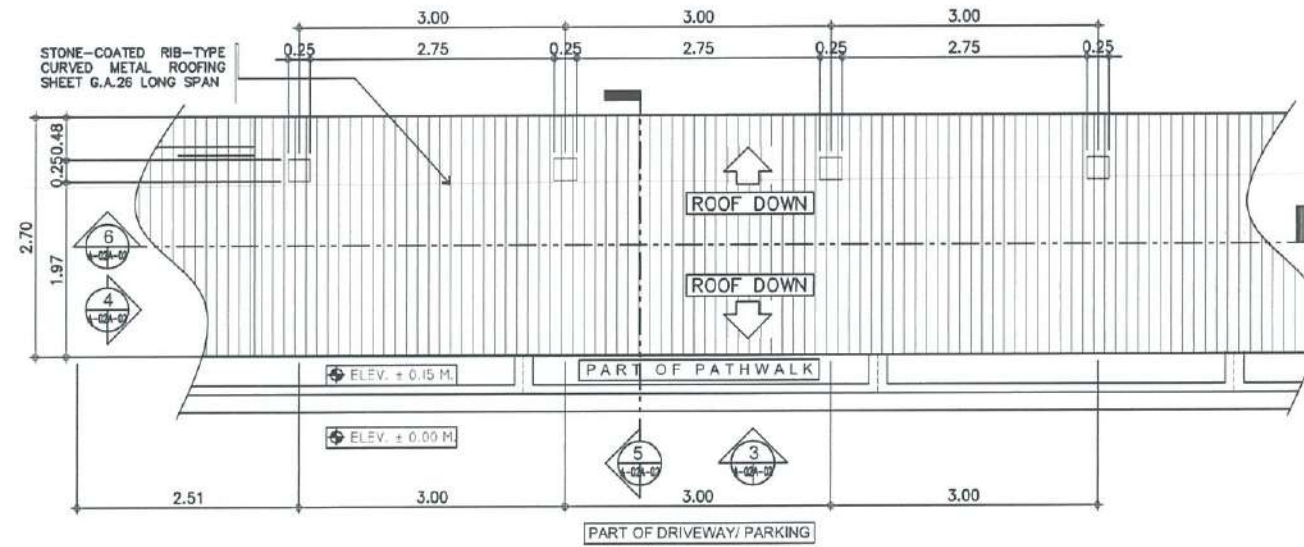
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

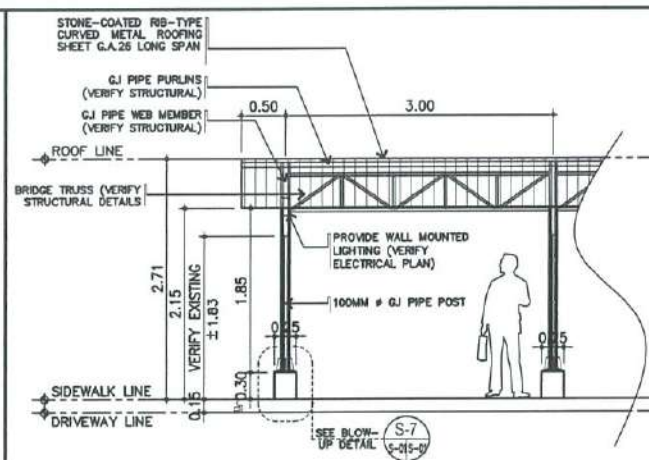
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AS SHOWN	13A



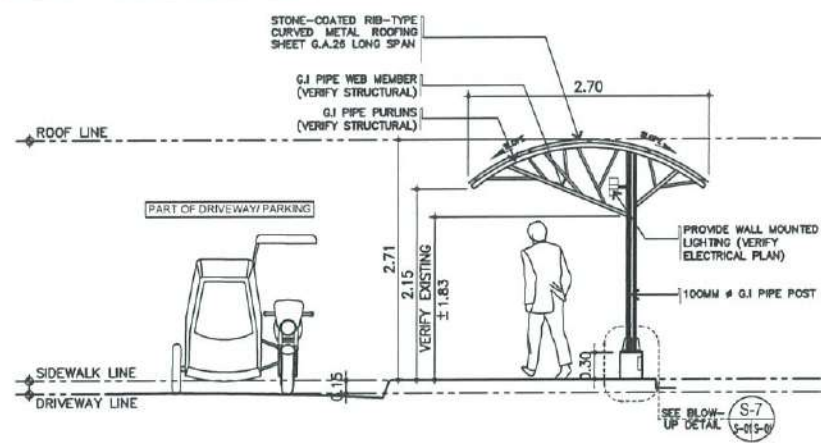
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A-02A-02
**CONSTRUCTION OF COVERED PATHWALK AT THE VPA
COVERED PATHWALK (A) PLAN**
SCALE: 1:50 MTS.



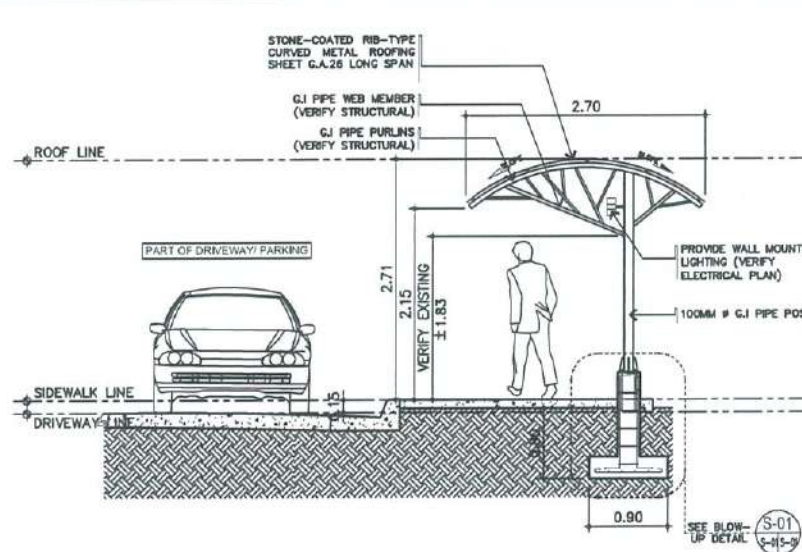
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**CONSTRUCTION OF COVERED PATHWALK AT THE VPA
ROOF PLAN**
SCALE: 1:50 MTS.



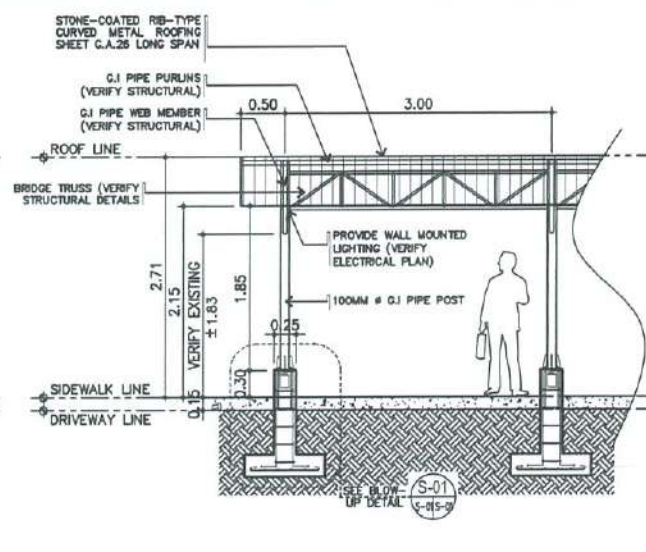
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A-02A-02
**CONSTRUCTION OF COVERED PATHWALK AT THE VPA
ELEVATION - A**
SCALE: 1:50 MTS.



4
A-02A-02
**CONSTRUCTION OF COVERED PATHWALK AT THE VPA
ELEVATION - B**
SCALE: 1:50 MTS.



5
A-02A-02
SECTION THRU - A
SCALE: 1:50 MTS.



6
A-02A-02
SECTION THRU - B
SCALE: 1:50 MTS.



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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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DRAWN BY:	E.V.B (janz27)
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REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IADD - ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager IIIAED-ADMS

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

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

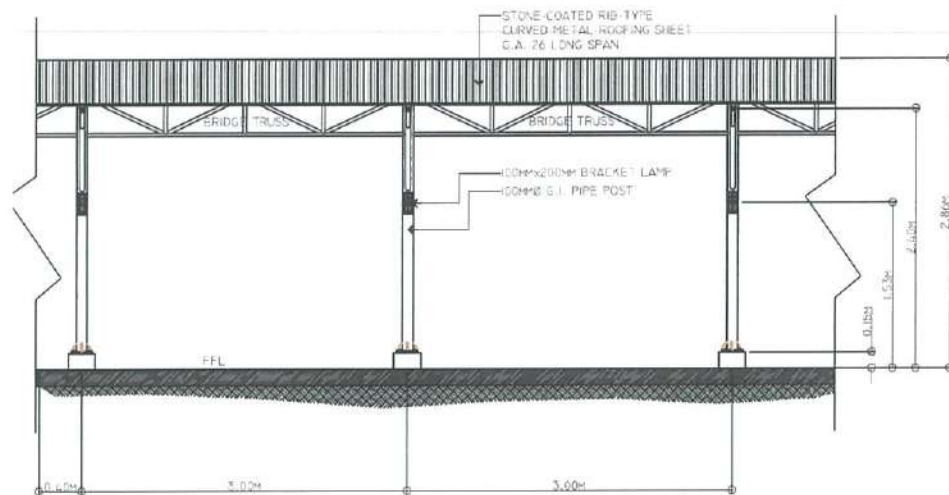
PROJECT:
BORONGAN AIRPORT DEVELOPMENT PROJECT
CONSTRUCTION OF COVERED PATHWALK

LOCATION:
BORONGAN AIRPORT
BORONGAN

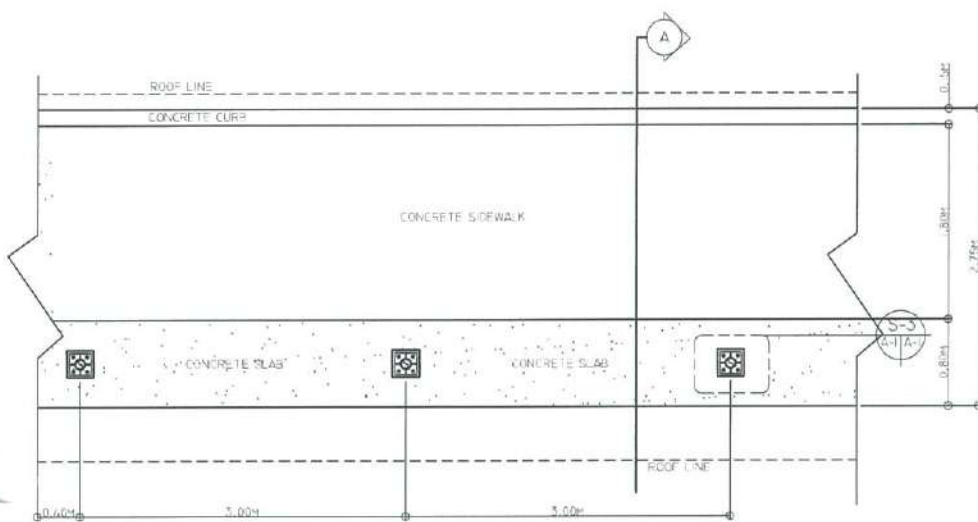
SHEET CONTENTS:

- COVERED PATHWALK (A) PLAN
- ROOF PLAN
- ELEVATION A & B
- SECTION THRU A & B
- KEYPLAN/ LOCATION PLAN

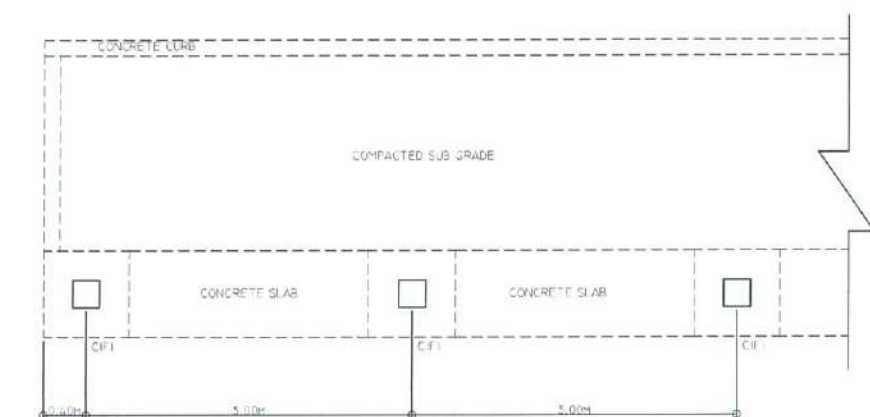
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AS SHOWN	14



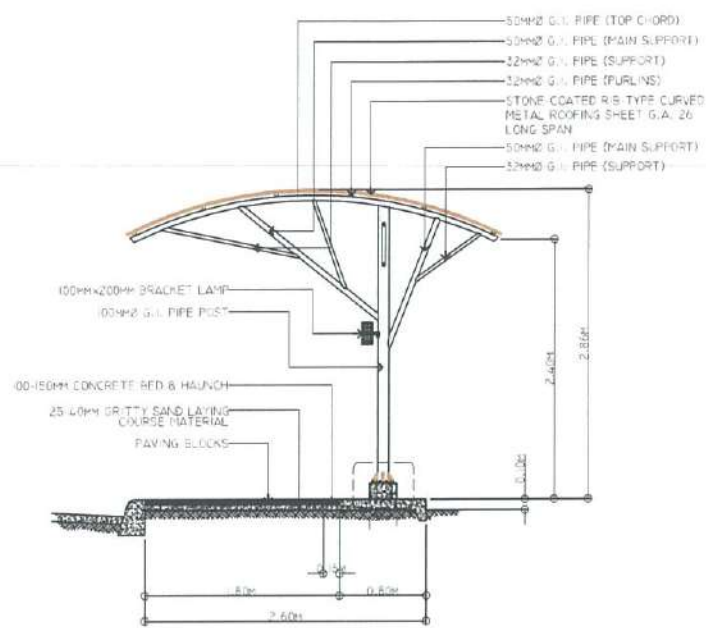
ELEVATION
A-2
1:20 M



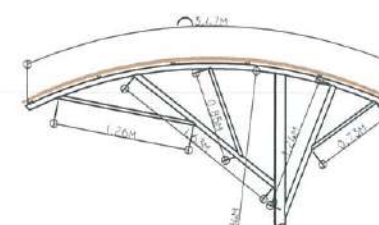
PLAN
A-1
1:20 M



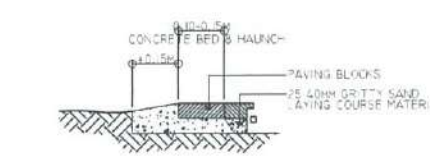
FOUNDATION PLAN
S-1
1:20 M



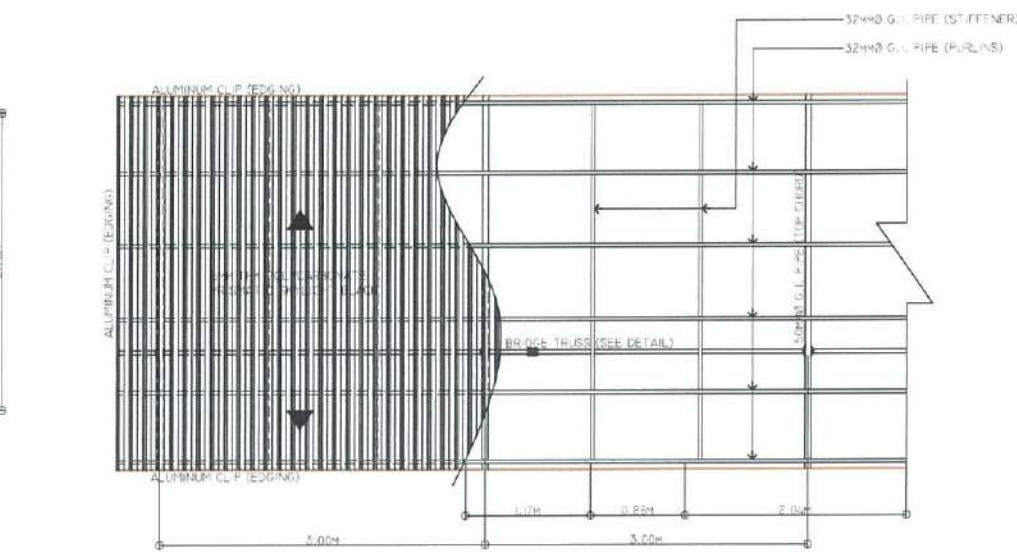
SECTION THRU "A"
A-3
1:20 M



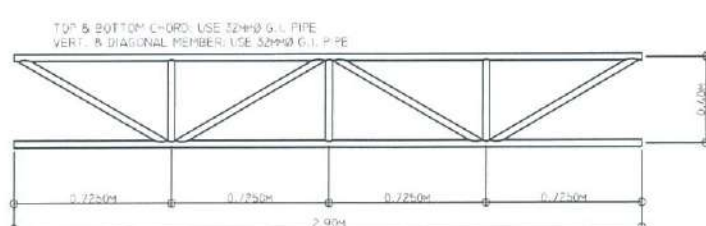
DIMENSION
S-8
1:20 M



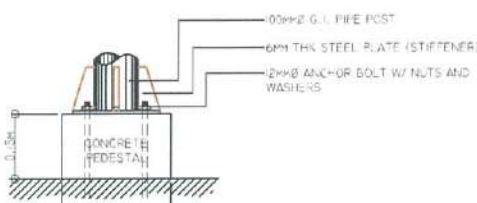
DETAIL OF CONCRETE BED & HAUNCH
S-6
1:20 M



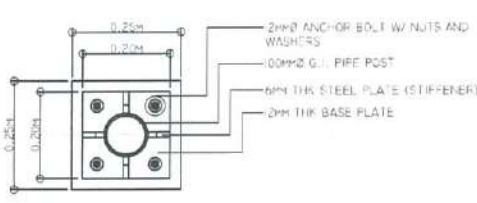
ROOF FRAMING PLAN
S-2
1:20 M



BRIDGE TRUSS
S-3
1:20 M



ELEVATION
S-4
1:20 M



PLAN
S-4
1:20 M

BASE PLATE DETAIL
S-4
1:20 M

CONSTRUCTION NOTES:

BASE PLATE

PROVIDE FULL BEARING UNDER PLATES USING NON-SHRINK GROUT. PLACE NON-SHRINK GROUT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

CONNECTIONS

CONNECTIONS NOT DETAILED SHALL BE DESIGNED IN ACCORDANCE WITH AISC "MANUAL OF STEEL CONSTRUCTION", BUILD CONNECTION INTO EXISTING WORK. DO NOT TIGHTEN ANCHOR BOLTS SET IN CONCRETE WITH IMPACT TORQUE WRENCHES.

G.I. PIPES

ALL G.I. PIPES TO BE USED SHALL BE SCHEDULE 40.

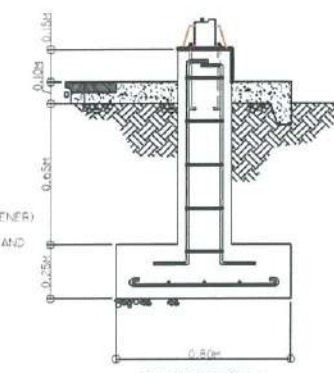
WELDING

WELDING ELECTRODES AND RODS, CONFORMED TO AWS D1.1.

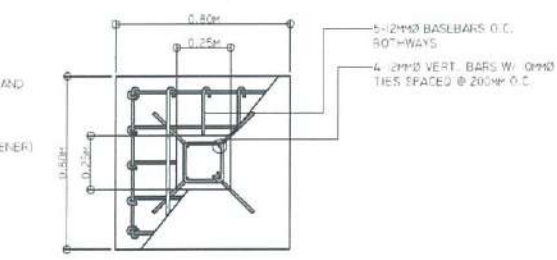
WELDED CONNECTIONS SHALL DEVELOP 100% OF THE STRENGTH OF MEMBERS BEING CONNECTED.

PAINTINGS

ALL G.I. PIPES SHALL BE PAINTED WITH RED LEAD OXIDE, RED LEAD OR EPOXY PRIMER AS SPECIFIED BEFORE FINAL COAT IS APPLIED.



SECTION
S-5
1:20 M



PLAN
S-5
1:20 M

DETAIL OF CFI
S-5
1:20 M



REPUBLIC OF THE PHILIPPINES

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	ICDD
DRAWN BY:	E.V.B (janc27)
CHECKED BY:	EJDR

REVIEWED BY:

RAUL A. CRUCENA
Division Chief III ICDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALERINO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT DEVELOPMENT PROJECT
CONSTRUCTION OF COVERED PATHWALK

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	15



REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

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DESIGNED BY:	1000
DRAWN BY:	E.V.B (Jang27)
CHECKED BY:	EJDR
REVIEWED BY:	

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Division Chief II, IDDD - ADMS

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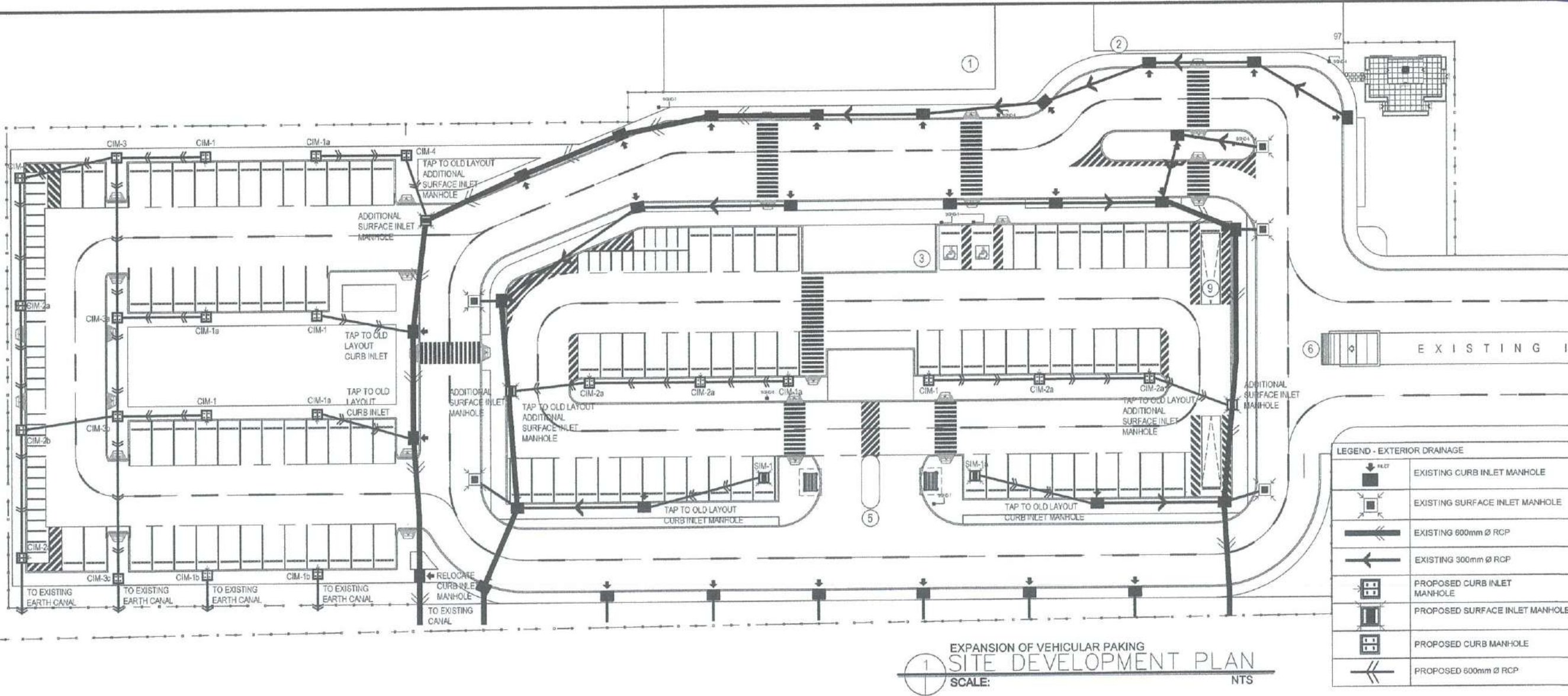
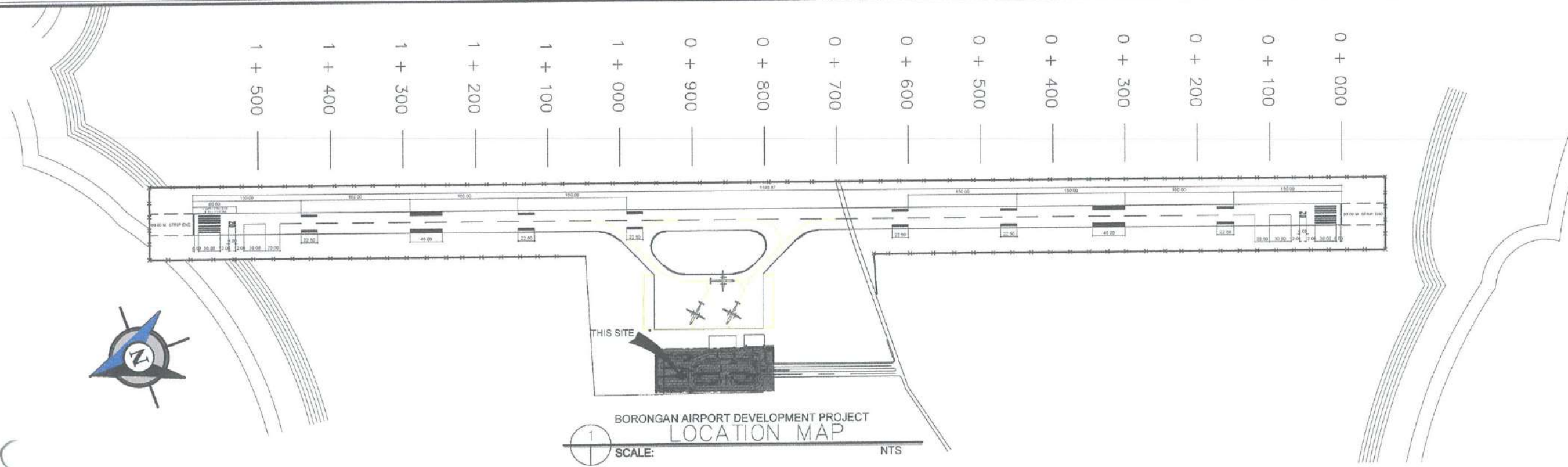
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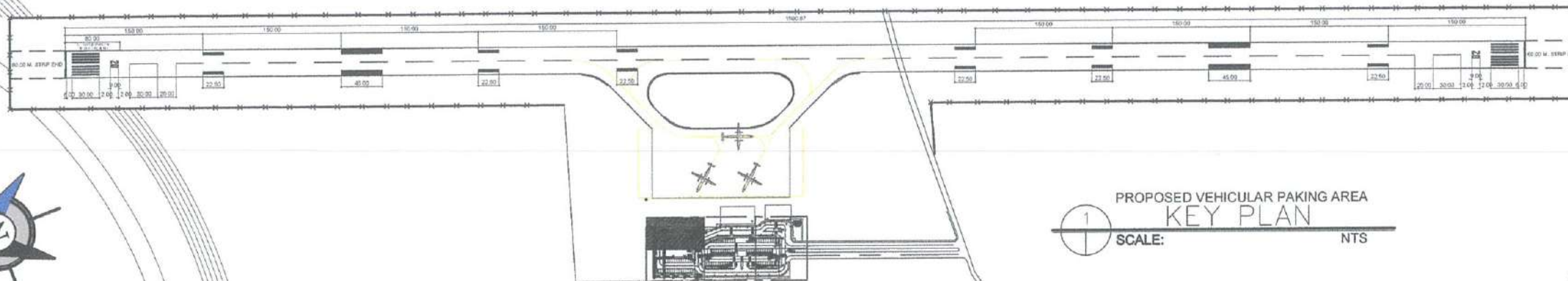
PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING
AREA

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	16





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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
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INFRASTRUCTURE DEVELOPMENT
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DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (jane227)
CHECKED BY:	EJOUR

REVIEWED BY:

RAUL R. ORUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

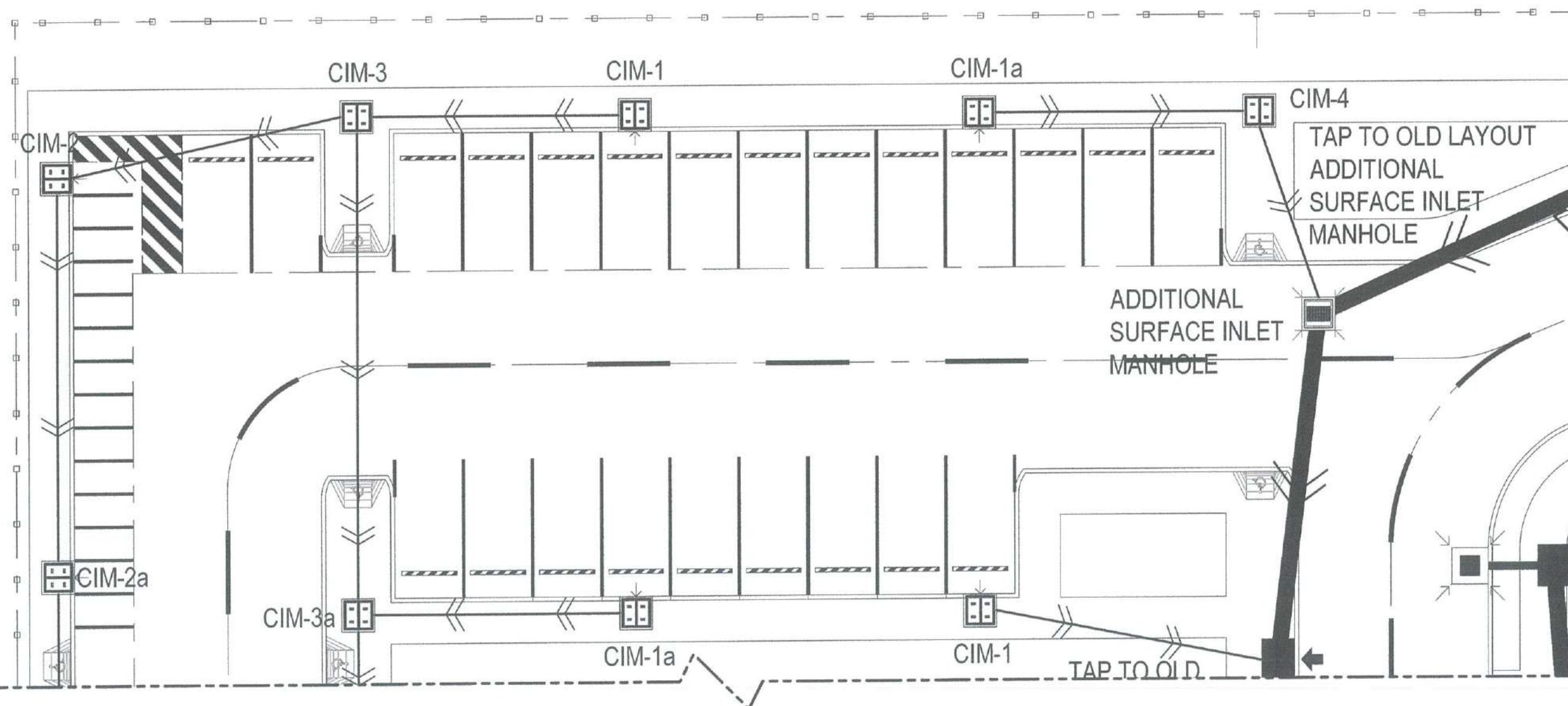
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING
AREA

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	17



PROPOSED VEHICULAR PARKING AREA
DETAILED A PLAN
SCALE: 1:100 MTRS



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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1309 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:	E.V.B. (janz27)
CHECKED BY:	E.J.D.R.

REVIEWED BY:

RAUL R. ORUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL B. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

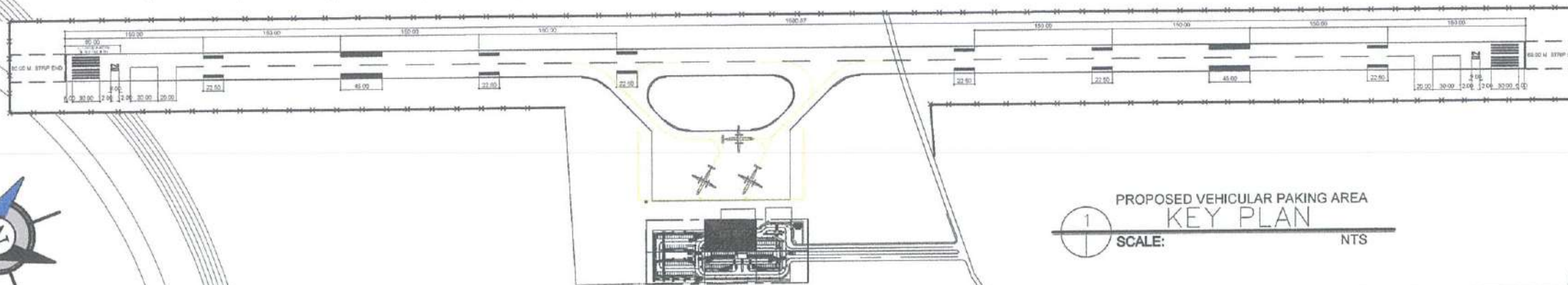
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING
AREA

LOCATION:

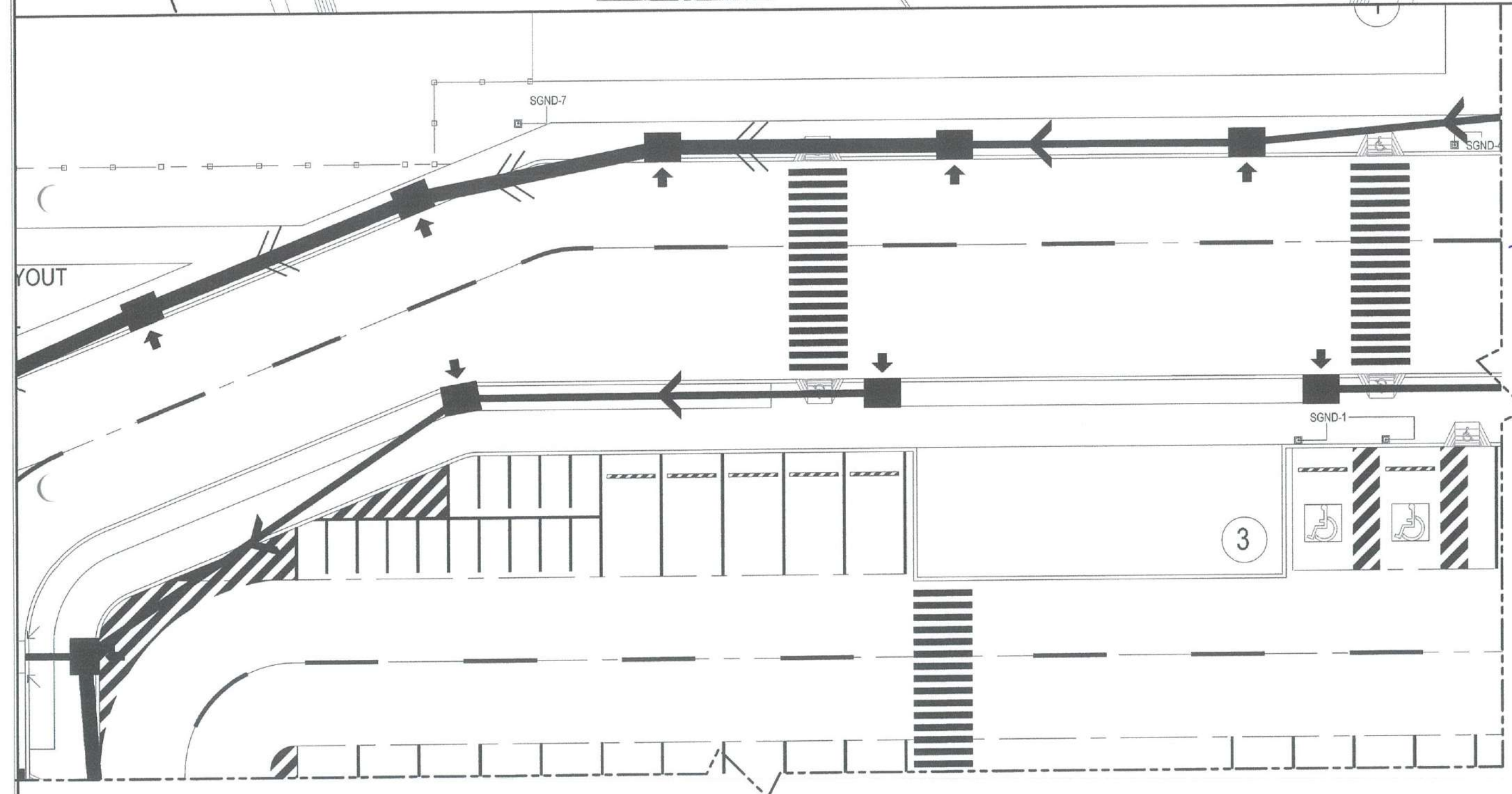
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

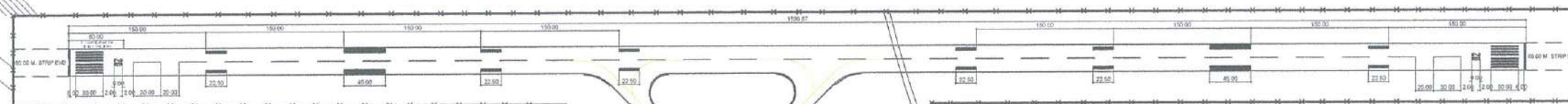
DRAWING SCALE:	SHEET NO:
AS SHOWN	18



PROPOSED VEHICULAR PARKING AREA
KEY PLAN
SCALE: NTS



PROPOSED VEHICULAR PARKING AREA
DETAILED B PLAN
SCALE: 1:100 MTRS



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:	E.V.B (jangz27)
CHECKED BY:	EJDJR

REVIEWED BY:

INITIAL / DATE

DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	
CHECKED BY:	EJDJR	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, NDDO - ADMS

SUBMITTED BY


ARNEL F. BORLADO
Department Manager III, AED-ADM3

RECOMMENDED APPROVAL:

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

APPROVED:


CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

**BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING
AREA**

LOCATION

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

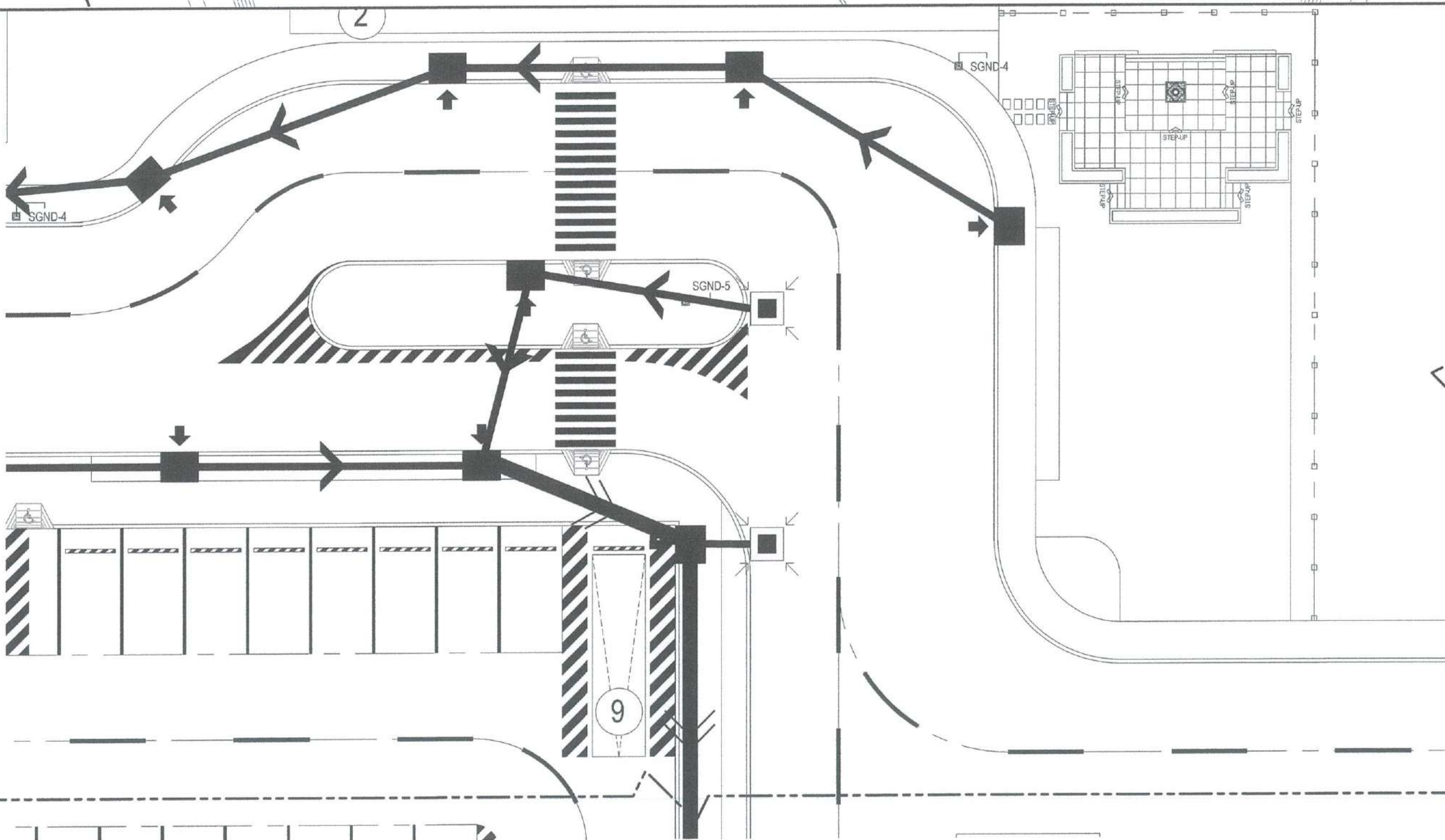
DRAWING SCALE:

AS SHOWN

SHEET NO:

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19

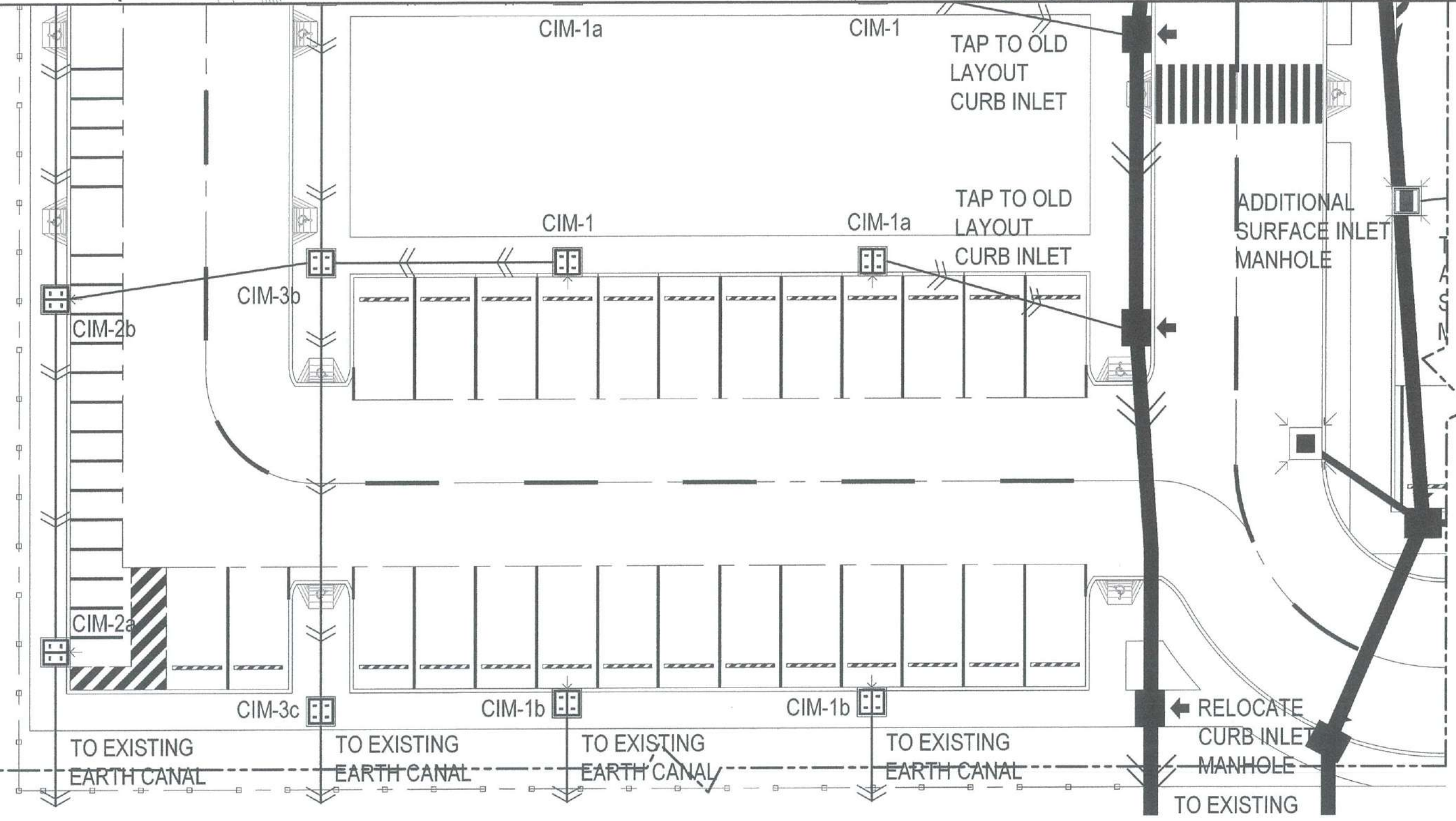


PROPOSED VEHICULAR PARKING AREA
DETAILED C PLAN
SCALE: 1:100 MTRS

SCALE: 1:100 MTRS



PROPOSED VEHICULAR PAKING AREA
KEY PLAN
SCALE: NTS



PROPOSED VEHICULAR PAKING AREA
DETAILED D PLAN
SCALE: 1:100 MTRS



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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
DRAWN BY:	E.V.B (jmgz27)
CHECKED BY:	EJDJR

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

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

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

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING
AREA

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	20



REPUBLIC OF THE PHILIPPINES

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

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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	10DD
DRAWN BY:	E.V.B (Jang27)
CHECKED BY:	EJOUR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

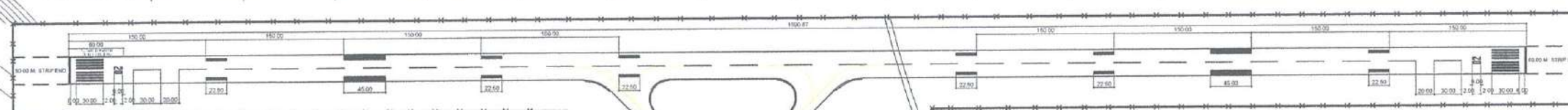
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING
AREA

LOCATION:
BORONGAN AIRPORT
BORONGAN

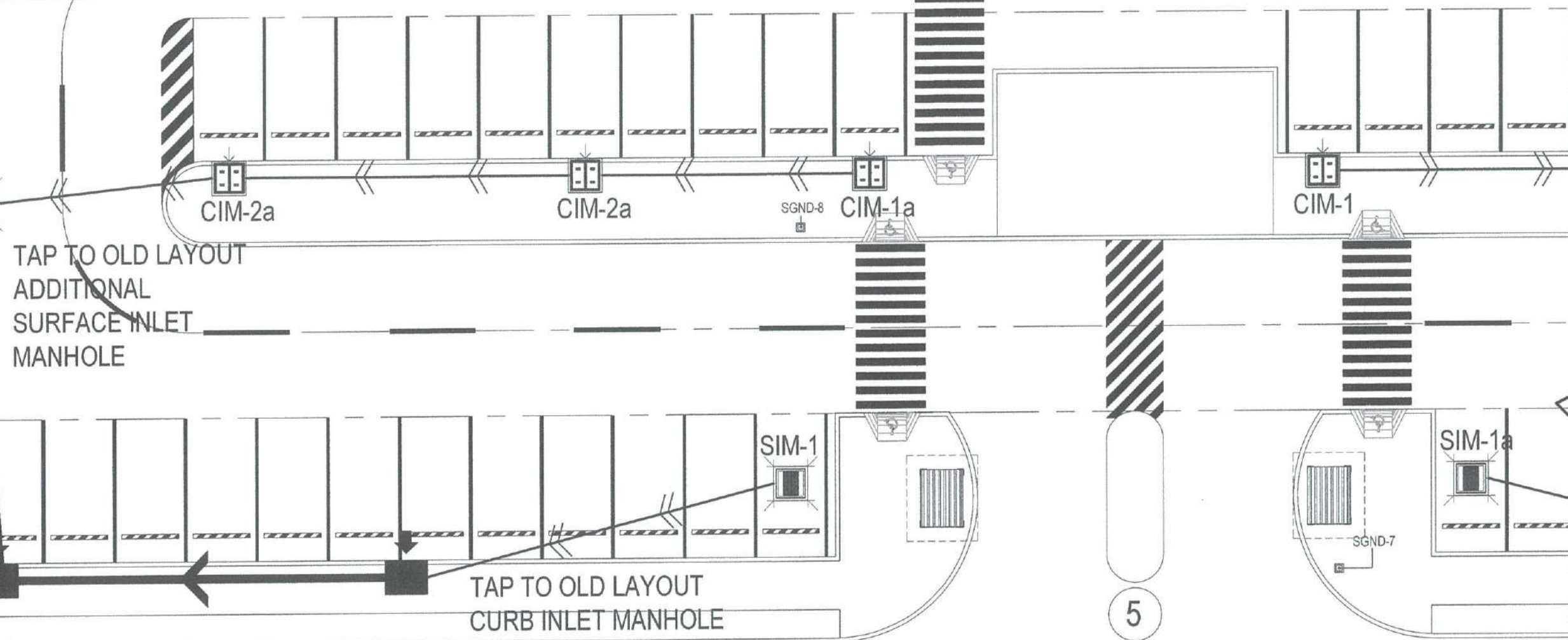
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DRAWING SCALE:	SHEET NO:
AS SHOWN	21



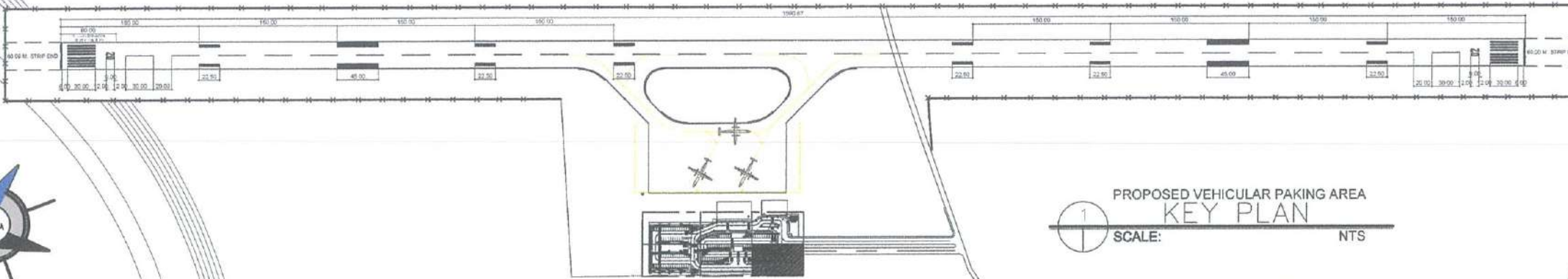
PROPOSED VEHICULAR PAKING AREA
KEY PLAN

SCALE: NTS



PROPOSED VEHICULAR PAKING AREA
DETAILED E PLAN

SCALE: 1:100 MTRS



PROPOSED VEHICULAR PARKING AREA
KEY PLAN
SCALE: NTS



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AERODROME DEVELOPMENT
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INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (janz27)
CHECKED BY:	EJOUR

REVIEWED BY:

RAUL A. GRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MARCEL ANTONIO L. TAMAYO
Director General

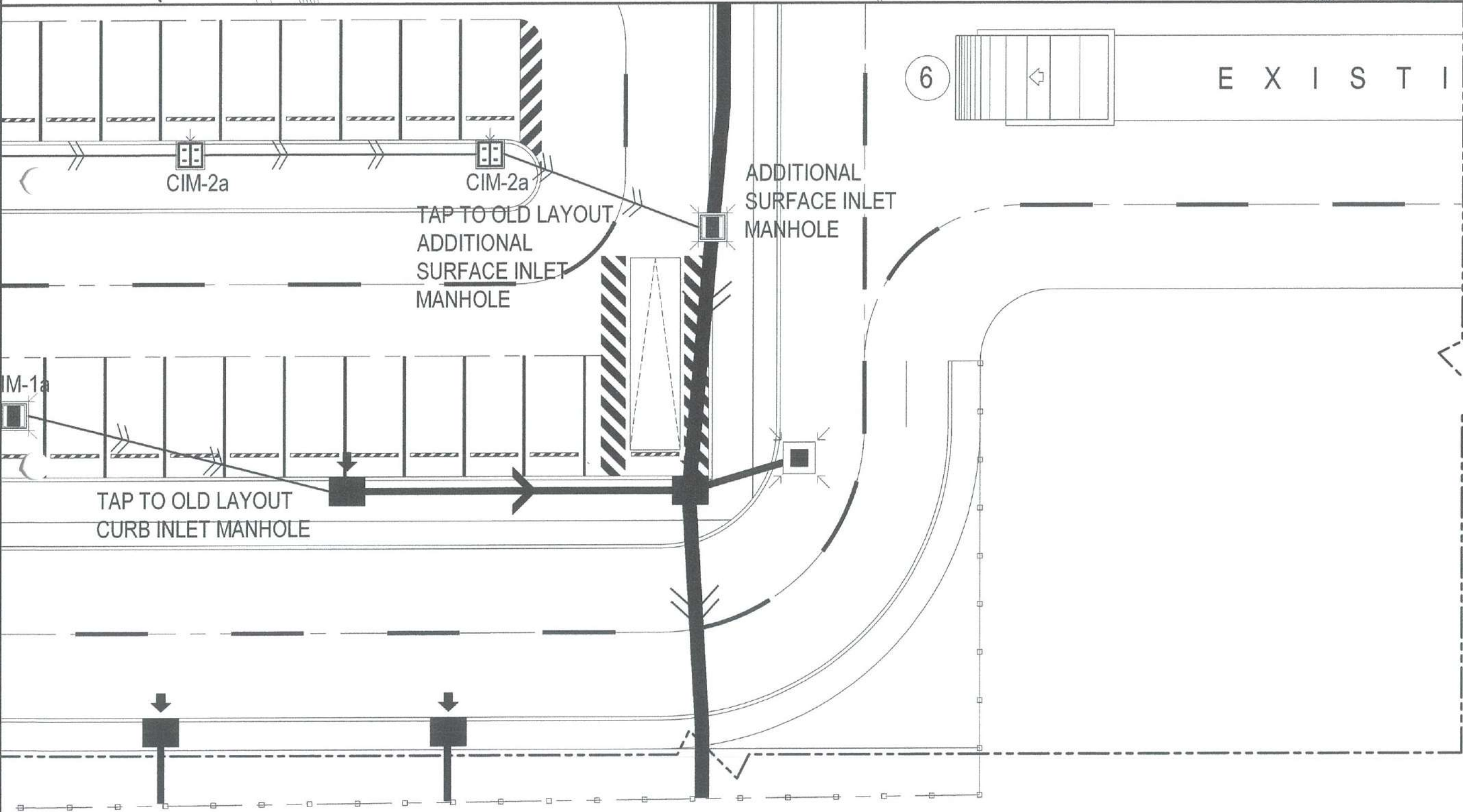
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING
AREA

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	22



PROPOSED VEHICULAR PARKING AREA
DETAILED F PLAN
SCALE: 1:100 MTRS

SEWER INLET MANHOLE DETAIL

	CIM-1	CIM-1a	CIM-1b
SEWER INLET MANHOLE DIAGRAM			
SEWER INLET MANHOLE PLAN DETAIL			
SEWER INLET MANHOLE SECTION DETAIL			
	CURB INLET MANHOLE	CURB INLET MANHOLE	



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AND MANAGEMENT SERVICEINFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (jeng27)
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. ORUCENA
Division Chief III, IDDD - ADMSSUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMSRECOMMENDED APPROVAL:

LT COL VALENTINO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMSAPPROVED:

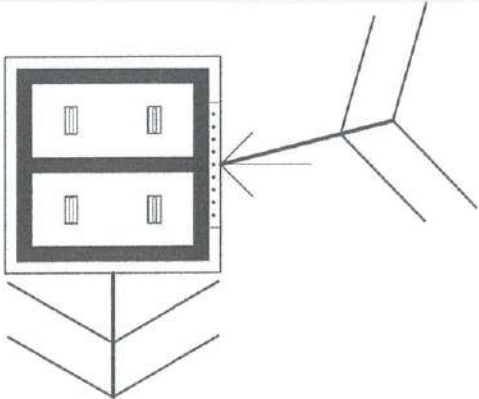
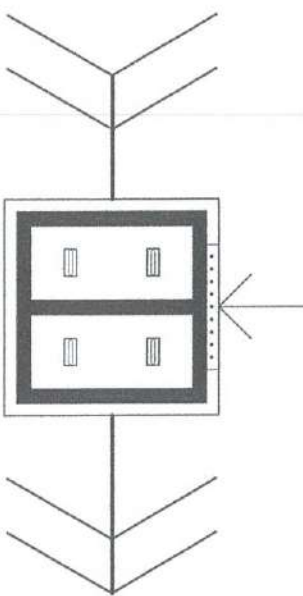
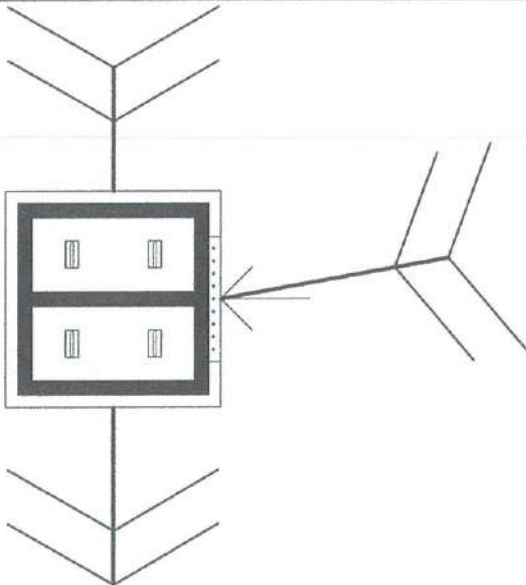
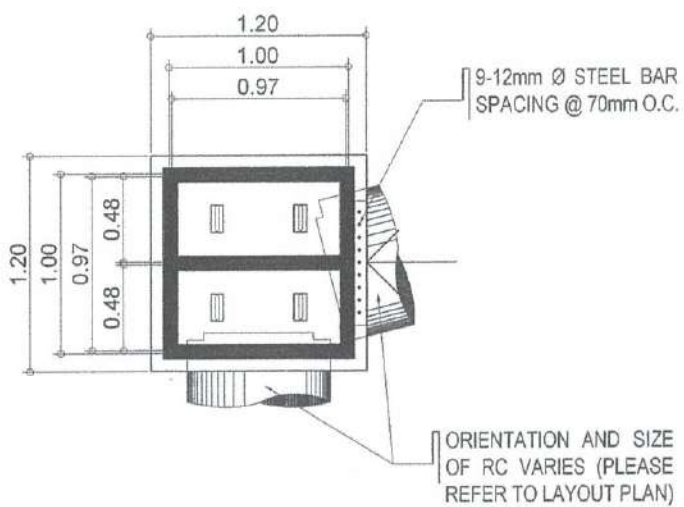
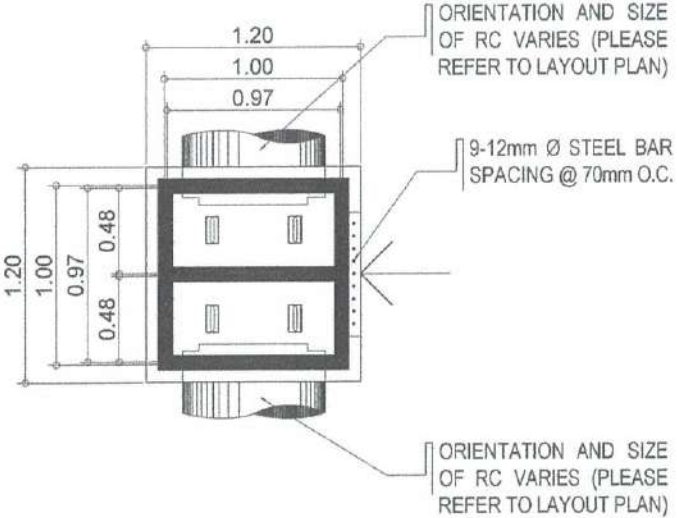
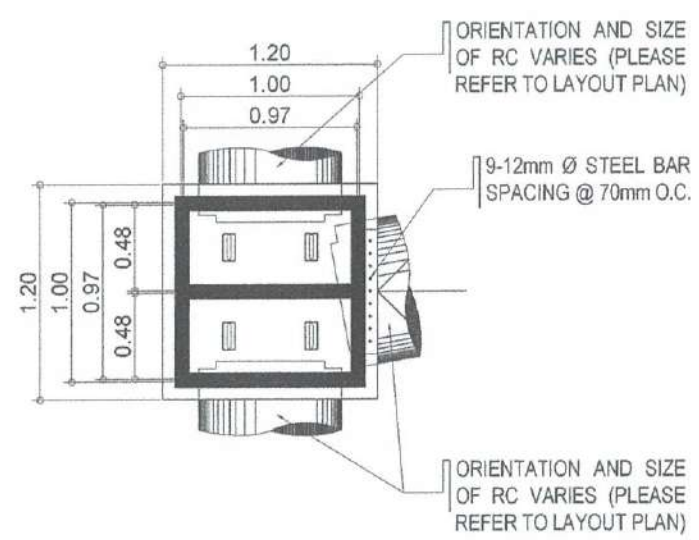
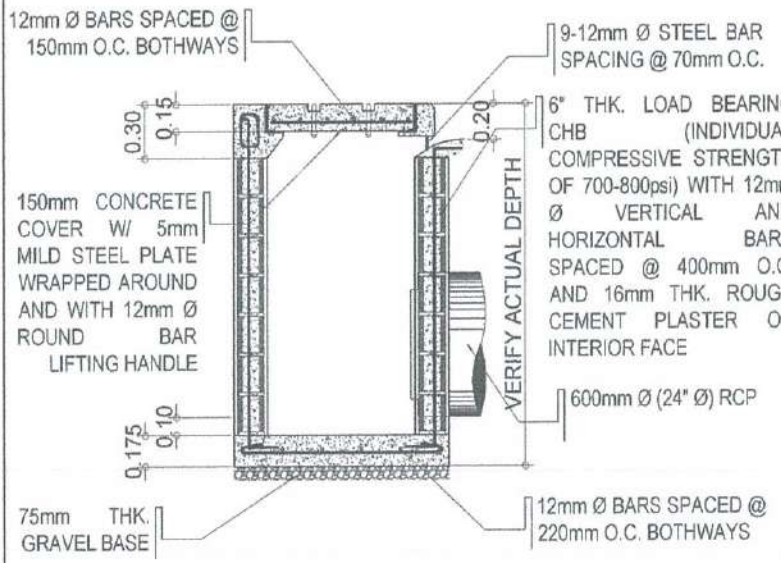
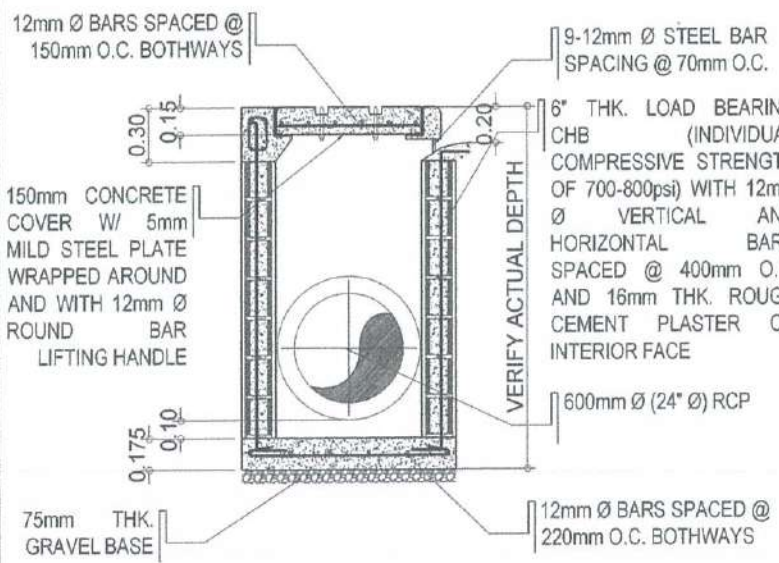
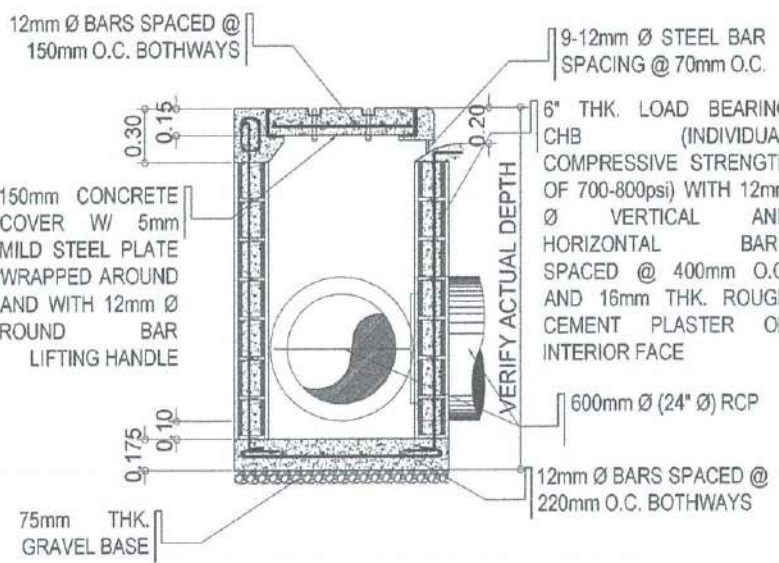
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director GeneralNOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING
AREALOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE: AS SHOWN
SHEET NO: 23

SEWER INLET MANHOLE DETAIL

	CIM-2	CIM-2a	CIM-2b
SEWER INLET MANHOLE DIAGRAM			
SEWER INLET MANHOLE PLAN DETAIL			
SEWER INLET MANHOLE SECTION DETAIL			
	CURB INLET MANHOLE	CURB INLET MANHOLE	CURB INLET MANHOLE



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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:	E.V.B (jngz27)
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REVIEWED BY:

RAUL R. CRUCENA
Division Chief, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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Assistant Director General II, ADMS

APPROVED:

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Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING AREA

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	24

SEWER INLET MANHOLE DETAIL

	CIM-3	CIM-3a	CIM-3b
SEWER INLET MANHOLE DIAGRAM			
SEWER INLET MANHOLE PLAN DETAIL	<p>ORIENTATION AND SIZE OF RC VARIES (PLEASE REFER TO LAYOUT PLAN)</p> <p>ORIENTATION AND SIZE OF RC VARIES (PLEASE REFER TO LAYOUT PLAN)</p>	<p>ORIENTATION AND SIZE OF RC VARIES (PLEASE REFER TO LAYOUT PLAN)</p> <p>ORIENTATION AND SIZE OF RC VARIES (PLEASE REFER TO LAYOUT PLAN)</p>	<p>ORIENTATION AND SIZE OF RC VARIES (PLEASE REFER TO LAYOUT PLAN)</p>
SEWER INLET MANHOLE SECTION DETAIL	<p>12mm Ø BARS SPACED @ 150mm O.C. BOTHWAYS</p> <p>6" THK. LOAD BEARING CHB (INDIVIDUAL COMPRESSIVE STRENGTH OF 700-800psi) WITH 12mm Ø VERTICAL AND HORIZONTAL BARS SPACED @ 400mm O.C. AND 16mm THK. ROUGH CEMENT PLASTER ON INTERIOR FACE</p> <p>150mm CONCRETE COVER W/ 5mm MILD STEEL PLATE WRAPPED AROUND AND WITH 12mm Ø ROUND BAR LIFTING HANDLE</p> <p>600mm Ø (24" Ø) RCP</p> <p>75mm THK. GRAVEL BASE</p> <p>12mm Ø BARS SPACED @ 220mm O.C. BOTHWAYS</p> <p>VERIFY ACTUAL DEPTH</p>	<p>12mm Ø BARS SPACED @ 150mm O.C. BOTHWAYS</p> <p>6" THK. LOAD BEARING CHB (INDIVIDUAL COMPRESSIVE STRENGTH OF 700-800psi) WITH 12mm Ø VERTICAL AND HORIZONTAL BARS SPACED @ 400mm O.C. AND 16mm THK. ROUGH CEMENT PLASTER ON INTERIOR FACE</p> <p>150mm CONCRETE COVER W/ 5mm MILD STEEL PLATE WRAPPED AROUND AND WITH 12mm Ø ROUND BAR LIFTING HANDLE</p> <p>600mm Ø (24" Ø) RCP</p> <p>75mm THK. GRAVEL BASE</p> <p>12mm Ø BARS SPACED @ 220mm O.C. BOTHWAYS</p> <p>VERIFY ACTUAL DEPTH</p>	<p>12mm Ø BARS SPACED @ 150mm O.C. BOTHWAYS</p> <p>6" THK. LOAD BEARING CHB (INDIVIDUAL COMPRESSIVE STRENGTH OF 700-800psi) WITH 12mm Ø VERTICAL AND HORIZONTAL BARS SPACED @ 400mm O.C. AND 16mm THK. ROUGH CEMENT PLASTER ON INTERIOR FACE</p> <p>150mm CONCRETE COVER W/ 5mm MILD STEEL PLATE WRAPPED AROUND AND WITH 12mm Ø ROUND BAR LIFTING HANDLE</p> <p>600mm Ø (24" Ø) RCP</p> <p>75mm THK. GRAVEL BASE</p> <p>12mm Ø BARS SPACED @ 220mm O.C. BOTHWAYS</p> <p>VERIFY ACTUAL DEPTH</p> <p>(SEE BLOW-UP DETAIL)</p>
	CURB INLET MANHOLE	CURB INLET MANHOLE	CURB INLET MANHOLE



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CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
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NAIA ROAD, 1500 PASAY CITY

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	DDO
DRAWN BY:	E.V.B. (jmgz27)
CHECKED BY:	EJOUR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, DDO - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

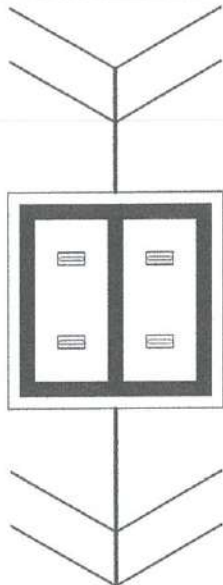
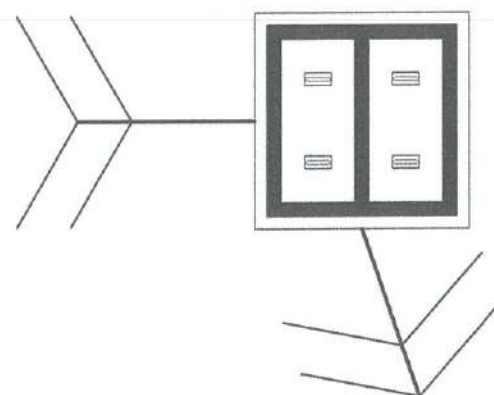
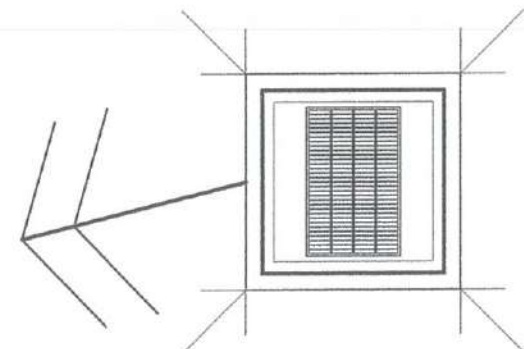
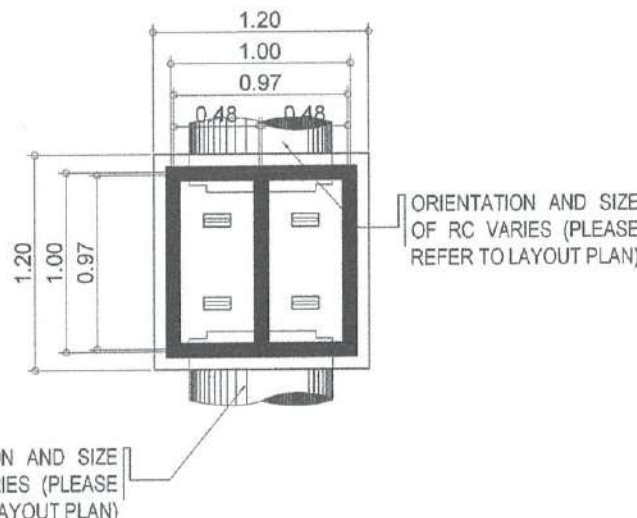
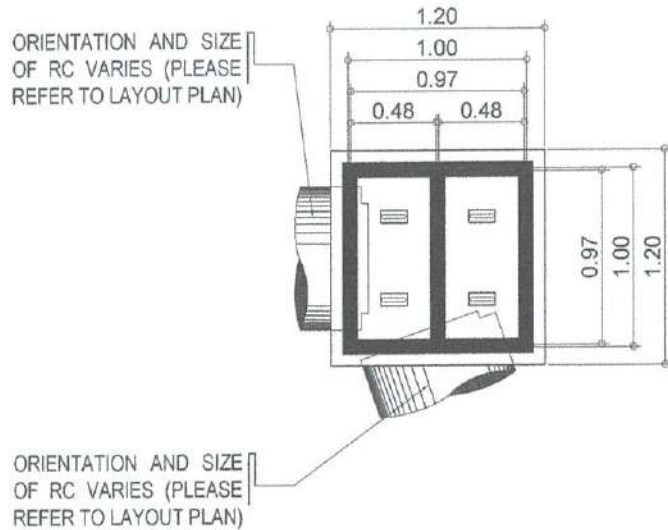
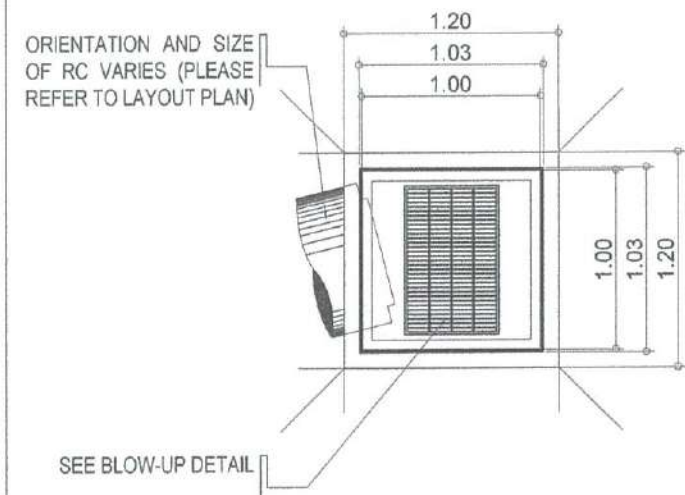
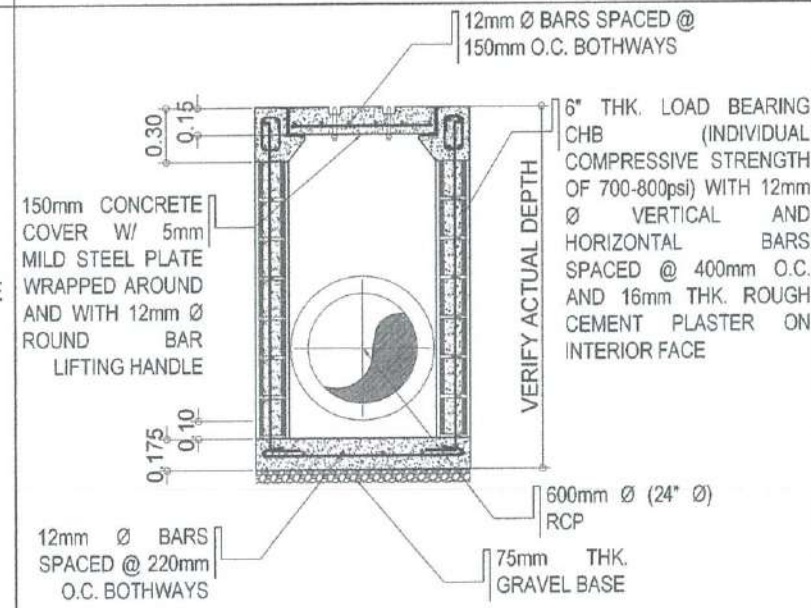
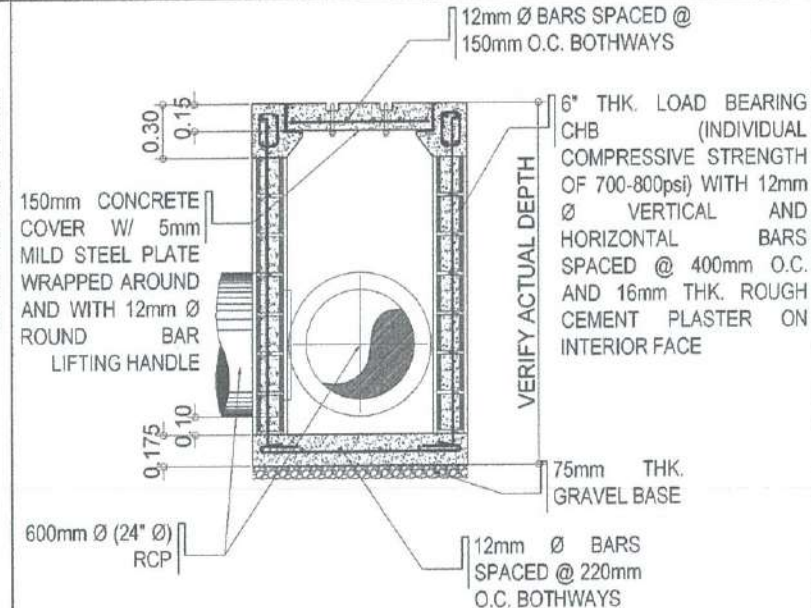
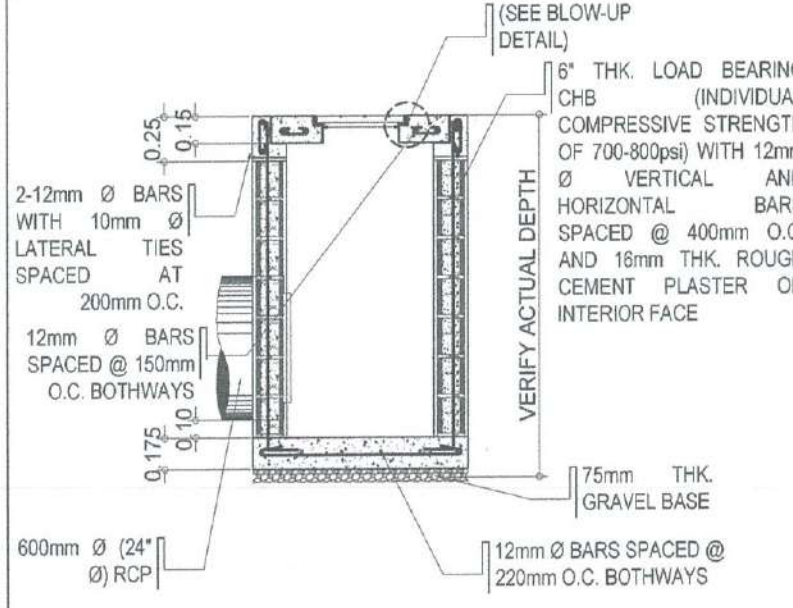
PROJECT:
BORONGAN AIRPORT DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING AREA

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	25

SEWER INLET MANHOLE DETAIL

	CIM-3c	CIM-4	SIM-1
SEWER INLET MANHOLE DIAGRAM			
SEWER INLET MANHOLE PLAN DETAIL			
SEWER INLET MANHOLE SECTION DETAIL			
	CURB INLET MANHOLE	CURB INLET MANHOLE	SURFACE INLET MANHOLE




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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
BATA ROAD, 1500 PASAY CITY

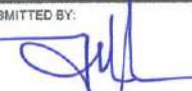
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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (Jang27)
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. ORUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MAURICIO ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING
AREA

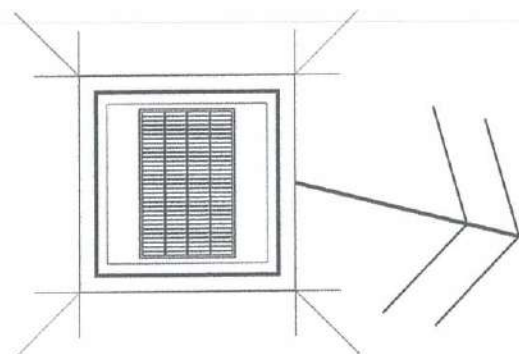
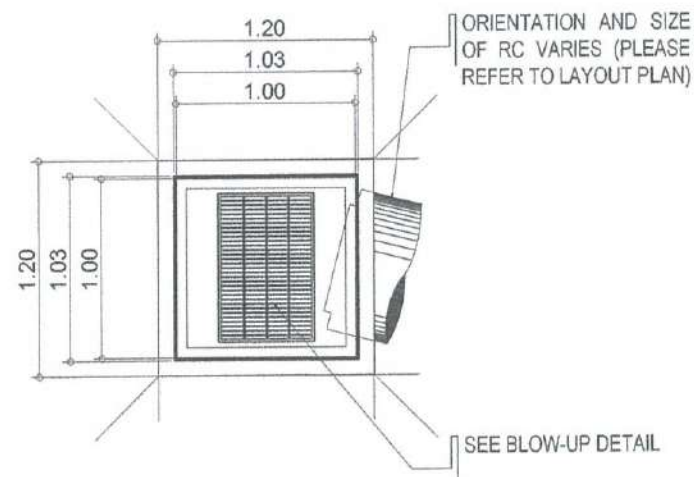
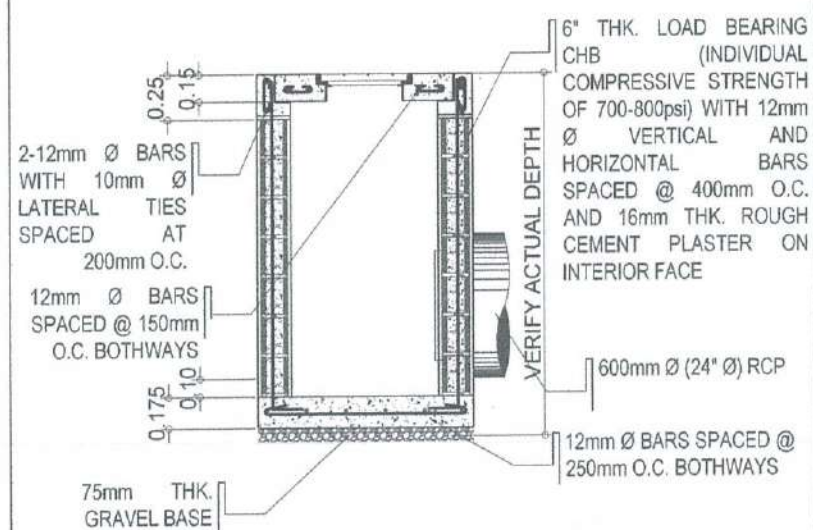
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE: AS SHOWN
SHEET NO: 26

SEWER INLET MANHOLE DETAIL

SIM-1a

SEWER
INLET
MANHOLE
DIAGRAMSEWER
INLET
MANHOLE
PLAN
DETAILSEWER
INLET
MANHOLE
SECTION
DETAIL

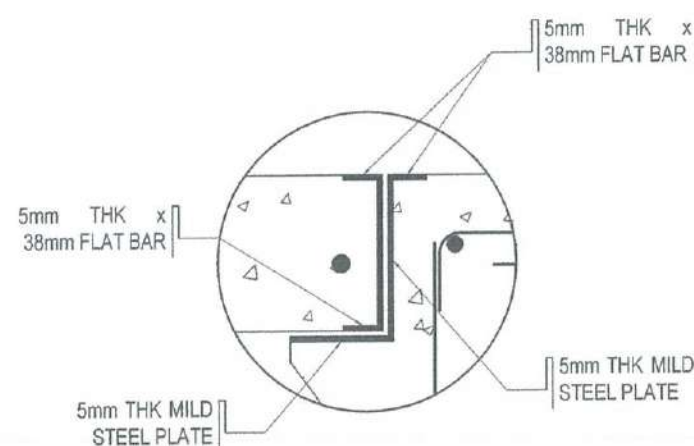
SURFACE INLET MANHOLE

SEWER INLET MANHOLE DETAIL

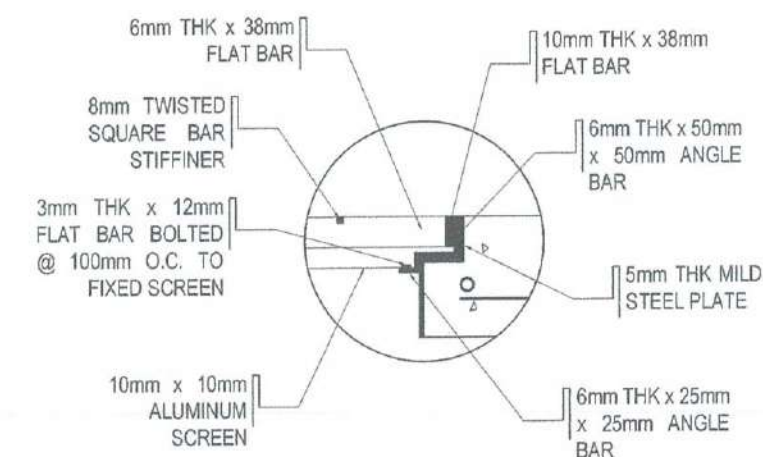
INLET MANHOLE	DIMENSION			QUANTITY
	WIDTH (M)	LENGTH (M)	DEPTH (M)	
CURB INLET MANHOLE (CIM)				
CIM - 1	1.20	1.20	verify on site	4
CIM - 1a	1.20	1.20	verify on site	4
CIM - 1b	1.20	1.20	verify on site	2
CIM - 2	1.20	1.20	verify on site	1
CIM - 2a	1.20	1.20	verify on site	6
CIM - 2b	1.20	1.20	verify on site	1
CIM - 3	1.20	1.20	verify on site	1
CIM - 3a	1.20	1.20	verify on site	1
CIM - 3b	1.20	1.20	verify on site	1
CIM - 3c	1.20	1.20	verify on site	1
CIM - 4	1.20	1.20	verify on site	1
SURFACE INLET MANHOLE (CIM)				
SIM - 1	1.20	1.20	verify on site	1
SIM - 1a	1.20	1.20	verify on site	1

LEGEND - EXTERIOR DRAINAGE

	EXISTING CURB INLET MANHOLE
	EXISTING SURFACE INLET MANHOLE
	EXISTING 600mm Ø RCP
	EXISTING 300mm Ø RCP
	PROPOSED CURB INLET MANHOLE
	PROPOSED SURFACE INLET MANHOLE
	PROPOSED CURB MANHOLE
	PROPOSED 600mm Ø RCP



CURB INLET MANHOLE



SURFACE INLET MANHOLE



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CAAP

AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (janz27)
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. BRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPT. MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR PARKING
AREA

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	27



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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (janz27)
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. ERUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager II, AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALERIANO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

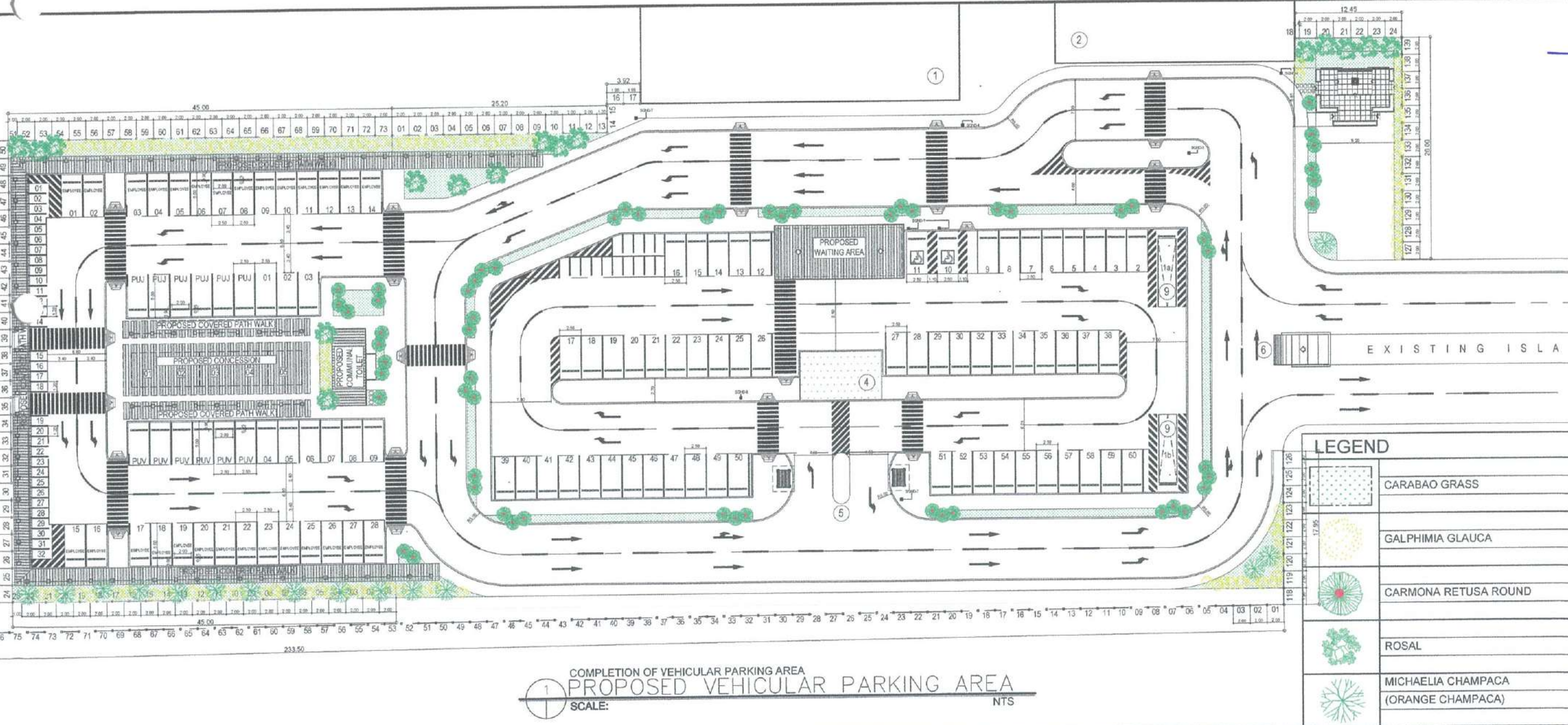
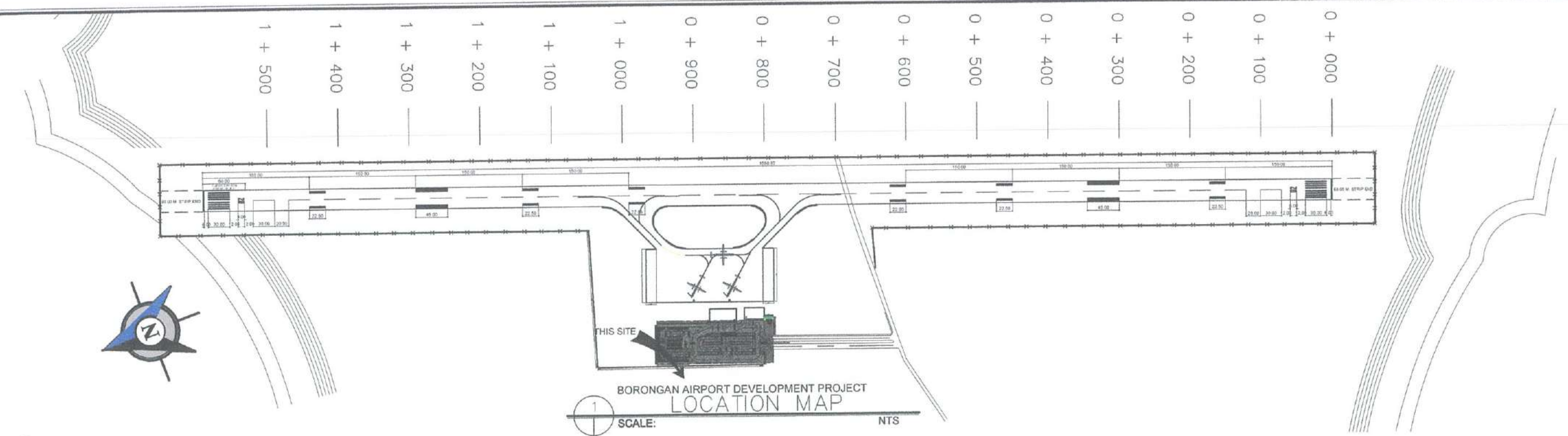
BORONGAN AIRPORT
DEVELOPMENT PROJECT
COMPLETION OF VEHICULAR
PARKING AREA

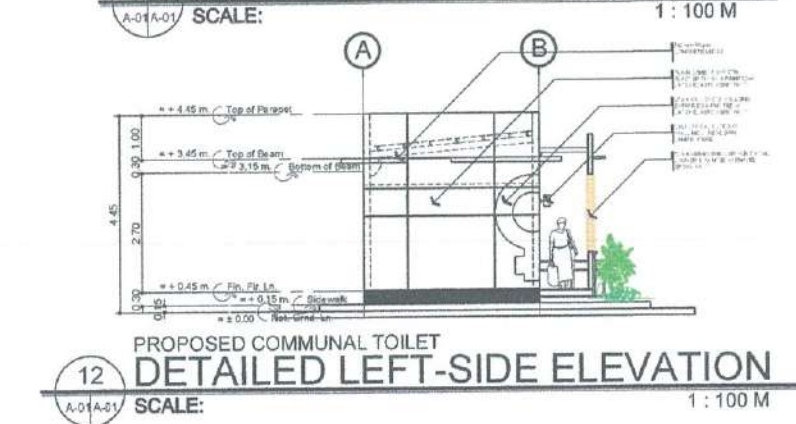
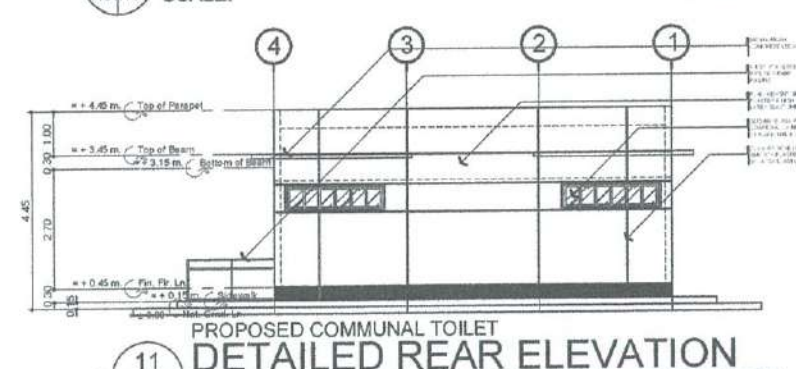
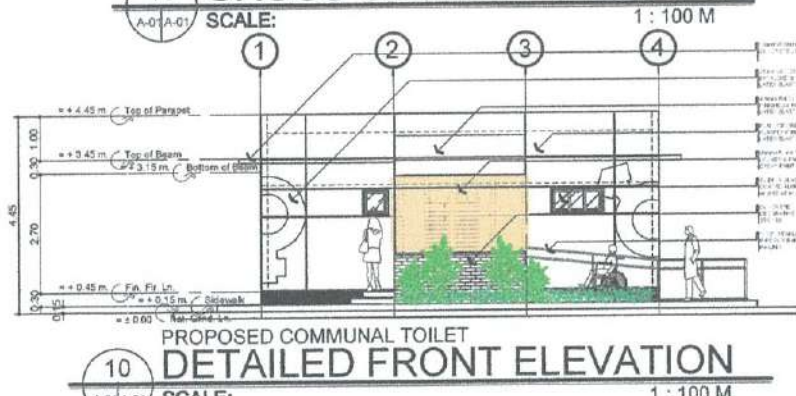
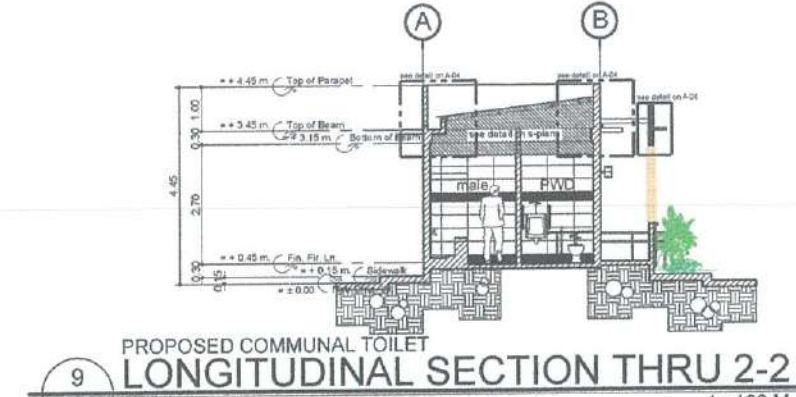
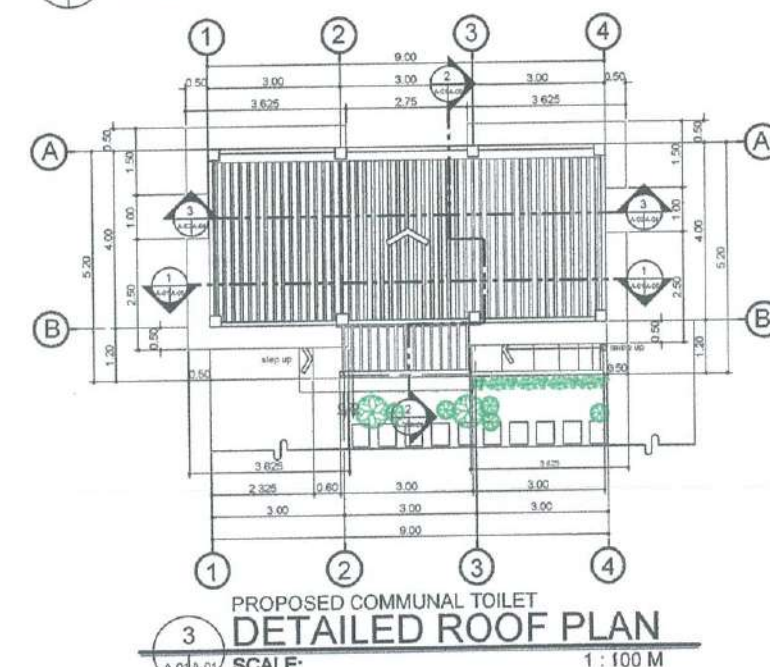
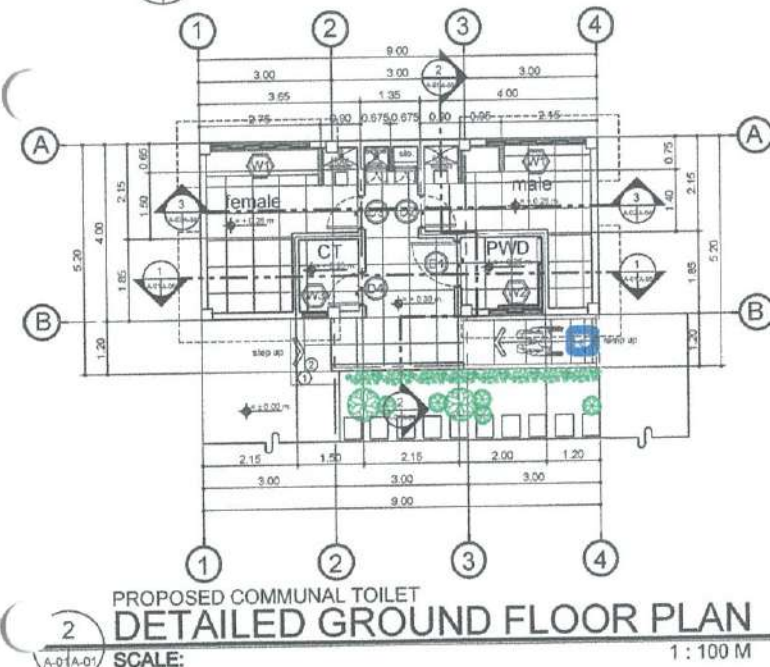
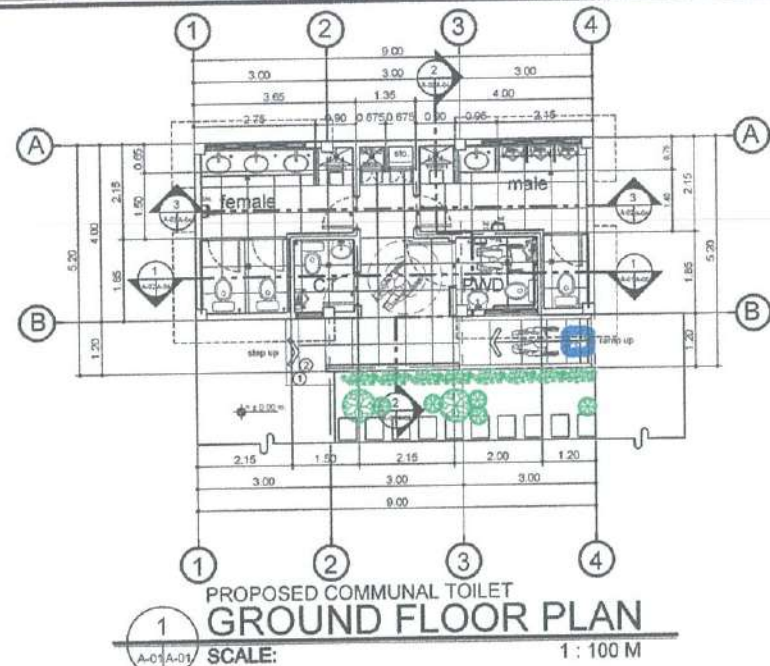
LOCATION:



BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	28





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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (eng27)
CHECKED BY:	EJOUR
REVIEWED BY:	

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

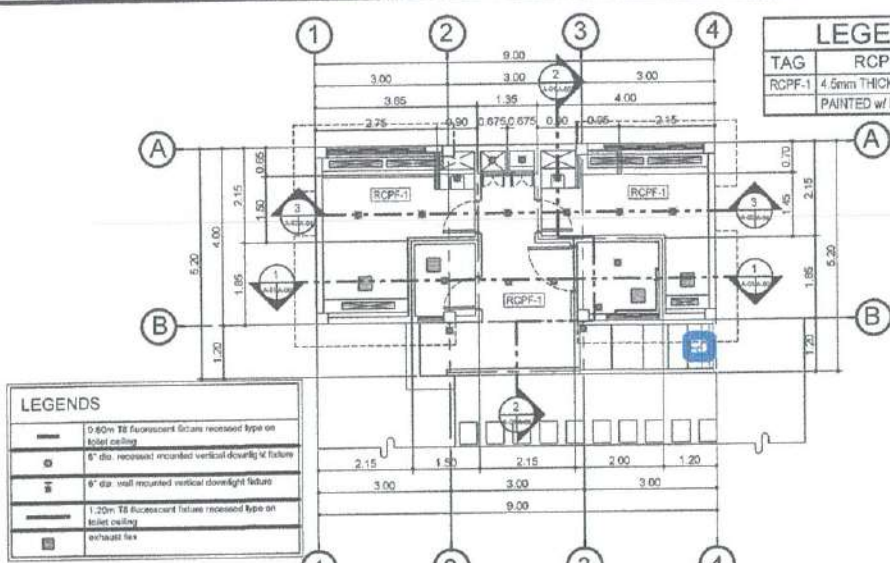
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF COMMUNAL TOILET

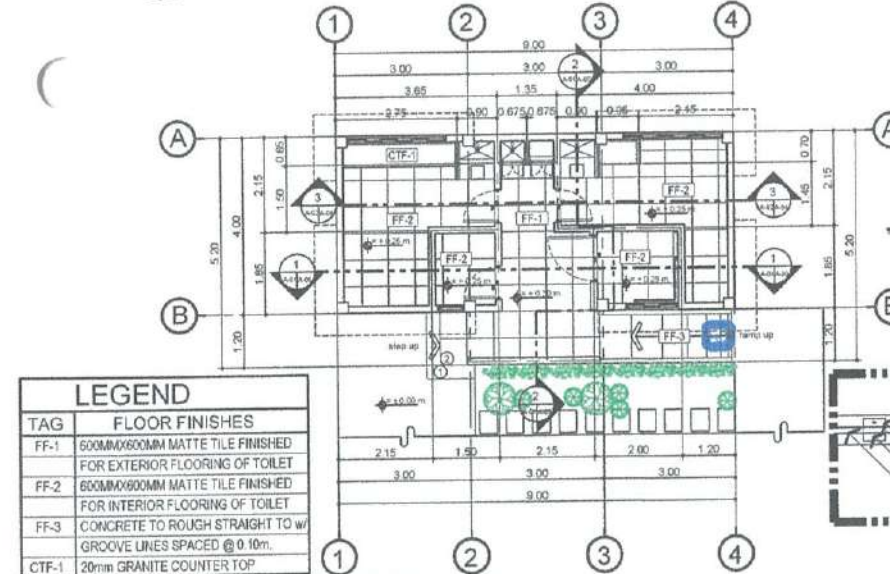
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:
GROUND FLOOR PLAN
DETAILED GROUND FLOOR PLAN
DETAILED ROOF PLAN
FRONT & REAR ELEVATION
LEFT-SIDE & RIGHT-SIDE ELEVATION
CROSS SECTION THRU 1-1, 3-3
LONGITUDINAL SECTION THRU 2-2
DETAILED FRONT & REAR ELEVATION
DETAILED LEFT-SIDE ELEVATION

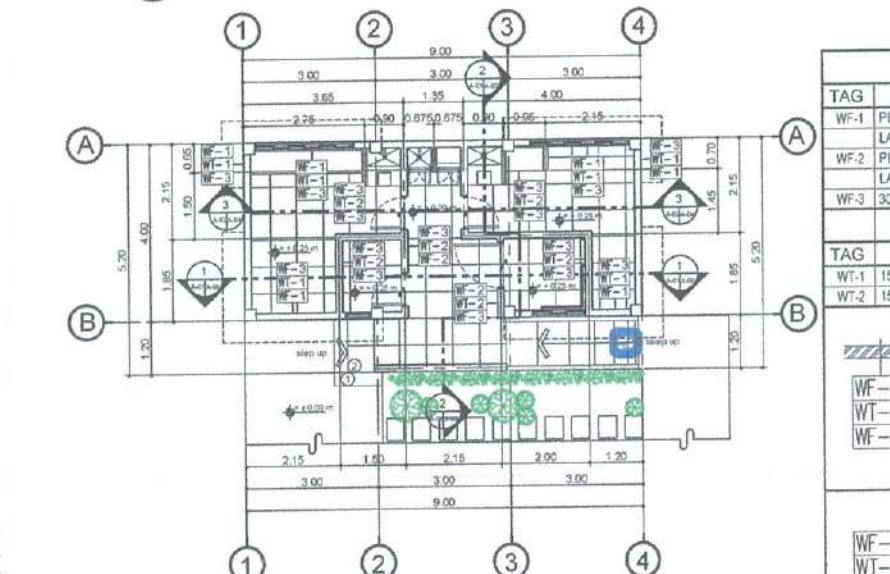
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AS SHOWN	A 01



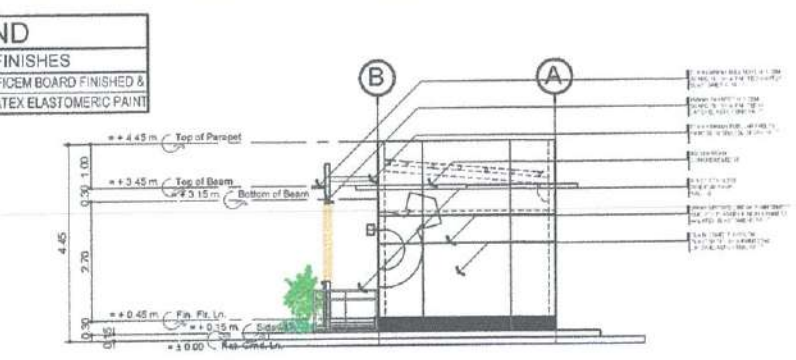
1 PROPOSED COMMUNAL TOILET
REFLECTED CEILING PLAN
SCALE: 1:100 M



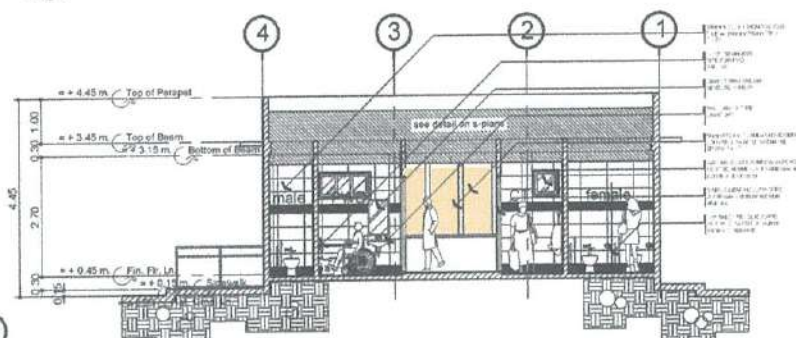
2 PROPOSED COMMUNAL TOILET
DETAIL OF FLOOR FINISHES
SCALE: 1:100 M



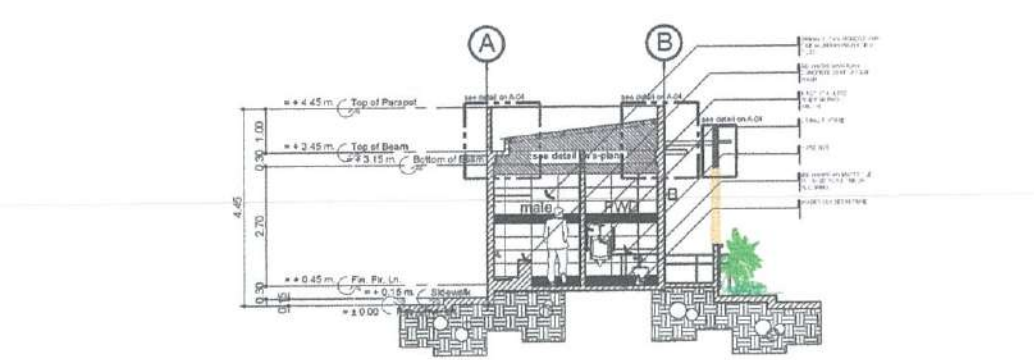
3 PROPOSED COMMUNAL TOILET
DETAIL OF WALL FINISHES
SCALE: 1:100 M



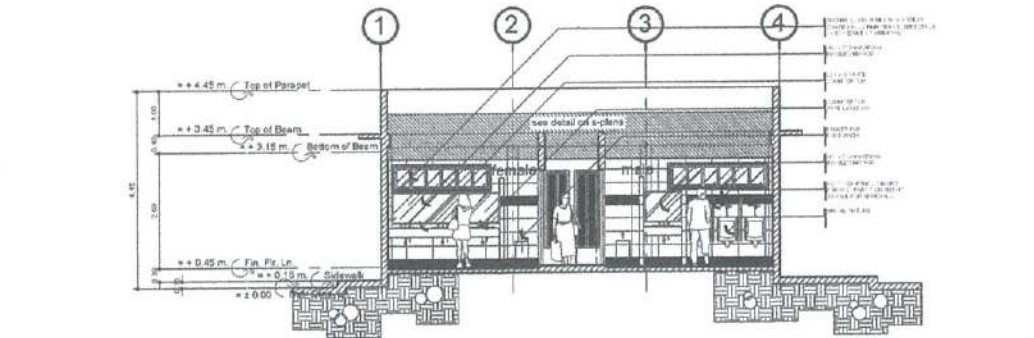
4 PROPOSED COMMUNAL TOILET
DETAILED RIGHT-SIDE ELEVATION
SCALE: 1:100 M



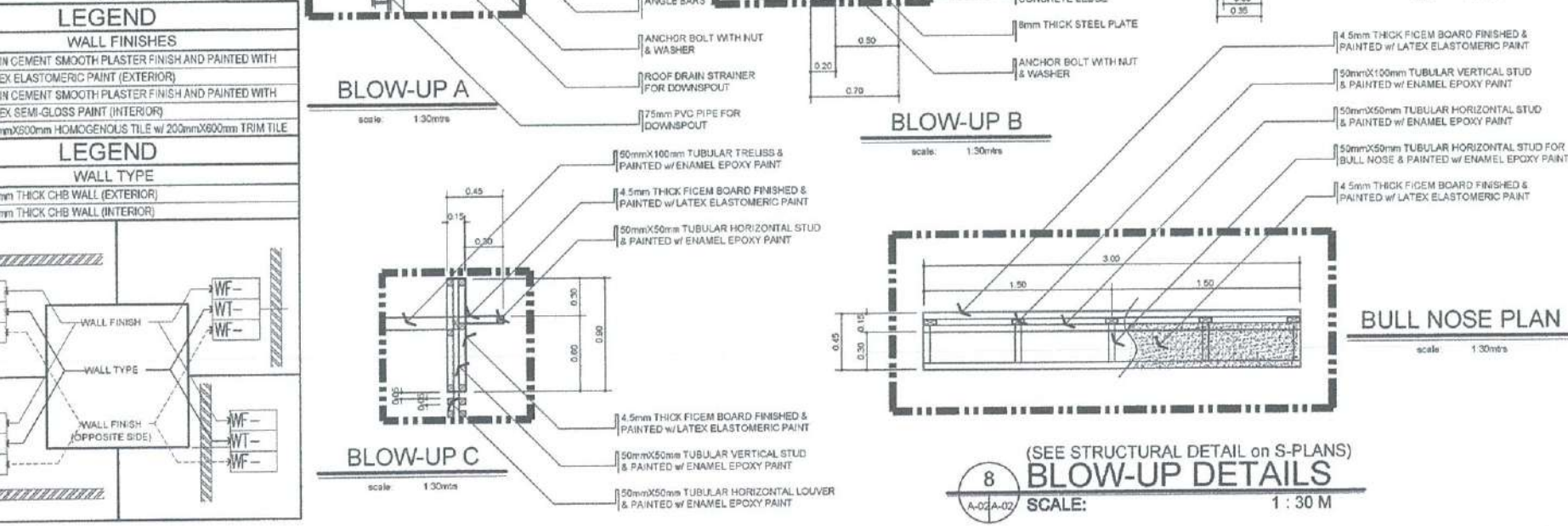
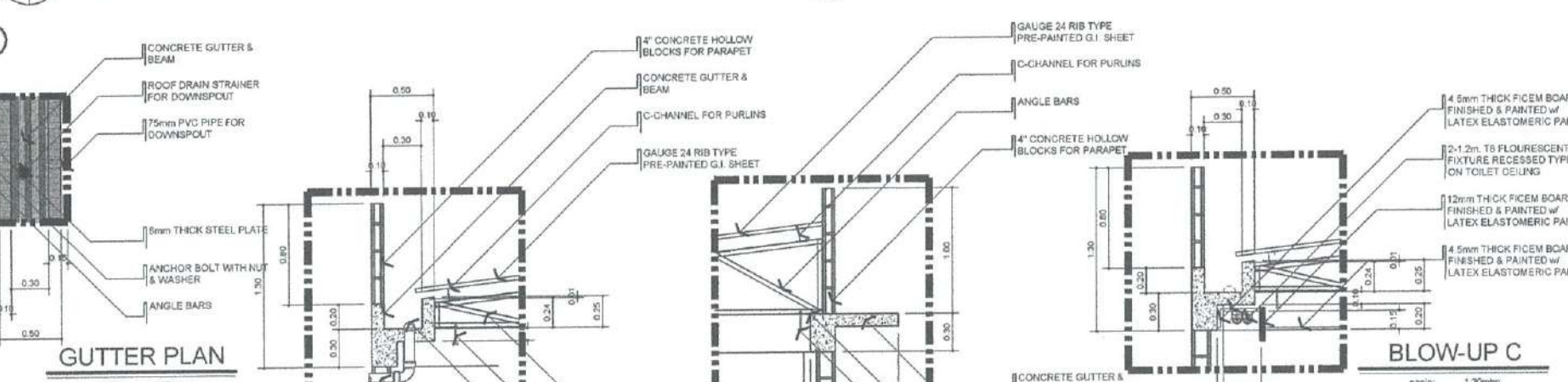
5 PROPOSED COMMUNAL TOILET
DETAILED CROSS SECTION THRU 1-1
SCALE: 1:100 M



6 PROPOSED COMMUNAL TOILET
DETAILED LONGITUDINAL SECTION THRU 2-2
SCALE: 1:100 M



7 PROPOSED COMMUNAL TOILET
DETAILED CROSS SECTION THRU 3-3
SCALE: 1:100 M



8 (SEE STRUCTURAL DETAIL ON S-PLANS)
BLOW-UP DETAILS
SCALE: 1:30 M

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY: IDDD	
DRAWN BY: E.V.B (jngz27)	
CHECKED BY: EJDUR	

REVIEWED BY:


RAUL R. CRUZENA
Division Chief II, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:


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

APPROVED:


CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

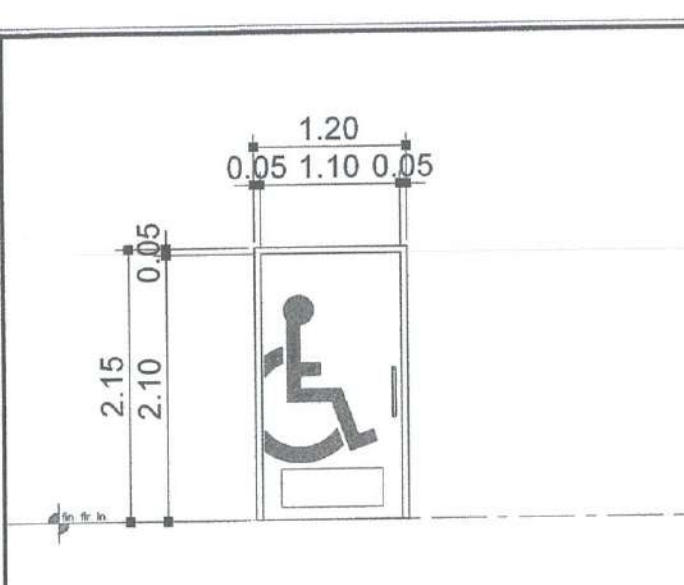
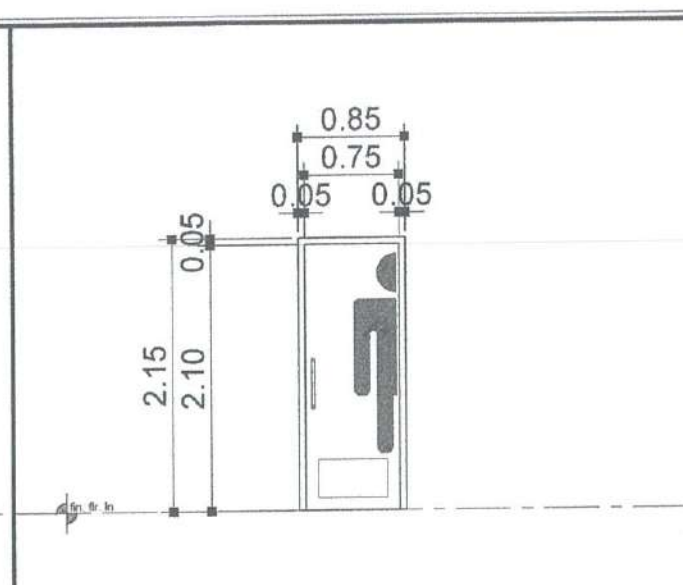
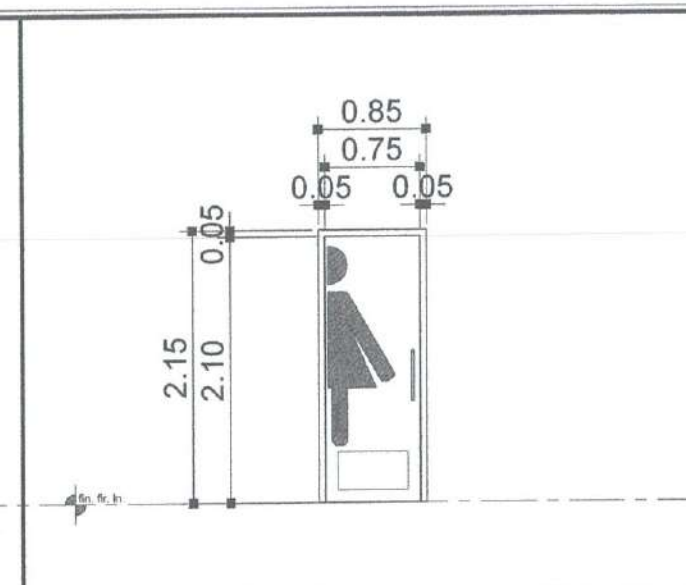
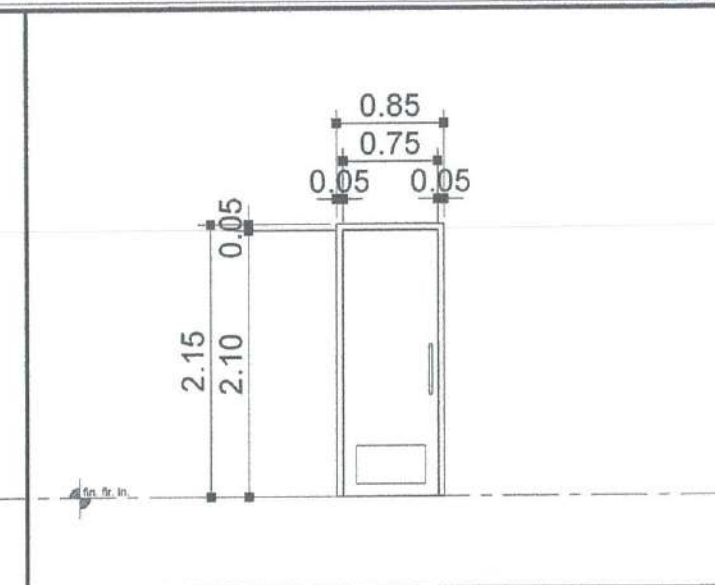
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF COMMUNAL TOILET

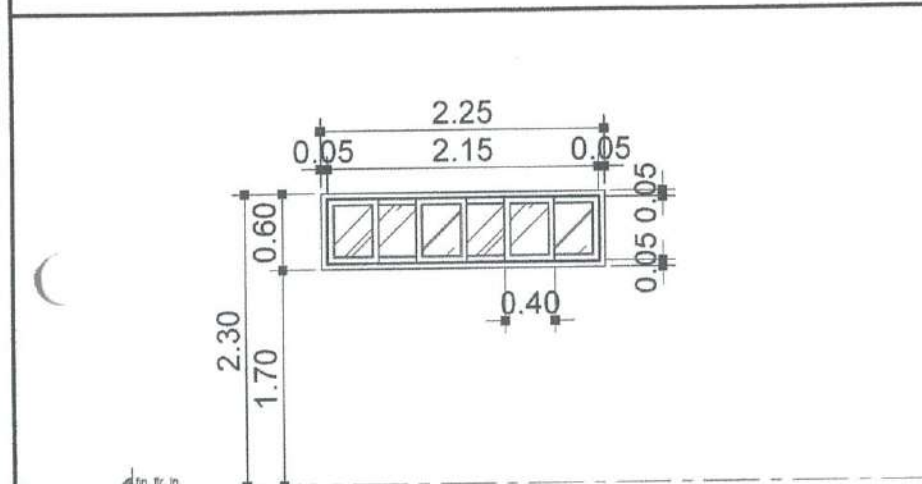
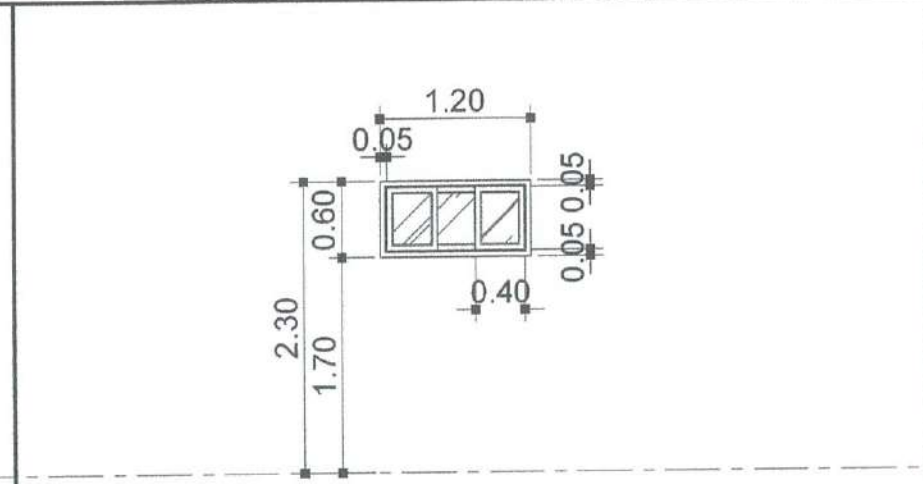
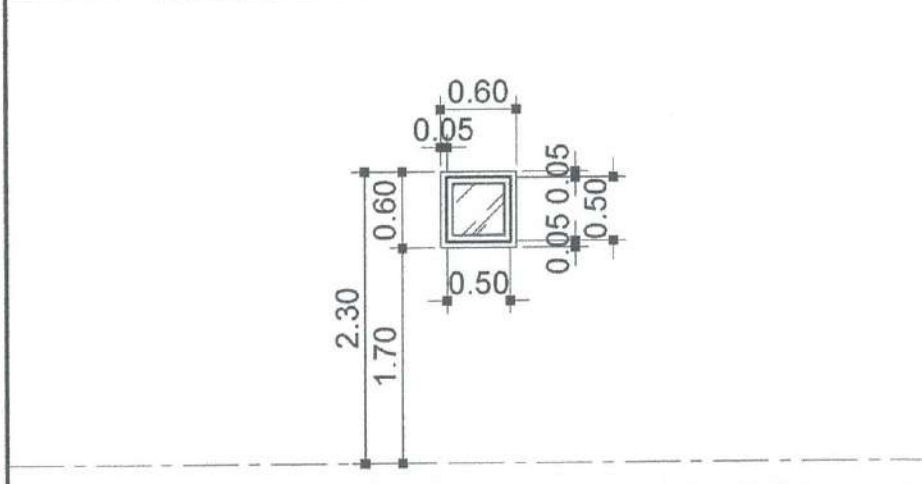
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:
SCHEDULE OF DOORS
SCHEDULE OF WINDOWS

DRAWING SCALE:	SHEET NO.
AS SHOWN	A 03

			
D 1 SINGLE-LEAF SWING OUT HOLLOW CORE DOOR PAINTED w/ ENAMEL QUICK DRY ENAMEL PAINT & KICK PLATE (800mmX300mm) INCLUDING HINGES, LOCKSET, HANDLE BAR and KICK PLATE (COLOR OF DOOR; VERIFY TO ARCHITECT)	D 2 SINGLE-LEAF SWING IN HOLLOW CORE DOOR PAINTED w/ ENAMEL QUICK DRY ENAMEL PAINT & KICK PLATE (550mmX300mm) INCLUDING HINGES, LOCKSET, HANDLE BAR and KICK PLATE (COLOR OF DOOR; VERIFY TO ARCHITECT)	D 3 SINGLE-LEAF SWING IN HOLLOW CORE DOOR PAINTED w/ ENAMEL QUICK DRY ENAMEL PAINT & KICK PLATE (550mmX300mm) INCLUDING HINGES, LOCKSET, HANDLE BAR and KICK PLATE (COLOR OF DOOR; VERIFY TO ARCHITECT)	D 4 SINGLE-LEAF SWING IN HOLLOW CORE DOOR PAINTED w/ ENAMEL QUICK DRY ENAMEL PAINT & KICK PLATE (550mmX300mm) INCLUDING HINGES, LOCKSET, HANDLE BAR and KICK PLATE (COLOR OF DOOR; VERIFY TO ARCHITECT)
DIMENSION 1200mm X 2150mm	DIMENSION 850mm X 2150mm	DIMENSION 850mm X 2150mm	DIMENSION 850mm X 2150mm
HARDWARES HINGES, LOCKSET, HANDLE BAR, DOOR STOPPER AND KICK PLATE	HARDWARES HINGES, LOCKSET, HANDLE BAR, DOOR STOPPER AND KICK PLATE	HARDWARES HINGES, LOCKSET, HANDLE BAR, DOOR STOPPER AND KICK PLATE	HARDWARES HINGES, LOCKSET, HANDLE BAR, DOOR STOPPER AND KICK PLATE
LOCATION PWD TOILET	LOCATION MALE TOILET	LOCATION FEMALE TOILET	LOCATION COMMON TOILET
NO. OF SETS 1 SET	NO. OF SETS 1 SET	NO. OF SETS 1 SET	NO. OF SETS 1 SET
J 50mm X 150mm S4S WOOD FINISH PAINTED w/ ENAMEL QDE PAINT	J 50mm X 150mm S4S WOOD FINISH PAINTED w/ ENAMEL QDE PAINT	J 50mm X 150mm S4S WOOD FINISH PAINTED w/ ENAMEL QDE PAINT	J 50mm X 150mm S4S WOOD FINISH PAINTED w/ ENAMEL QDE PAINT
H 50mm X 150mm S4S WOOD FINISH PAINTED w/ ENAMEL QDE PAINT	H 50mm X 150mm S4S WOOD FINISH PAINTED w/ ENAMEL QDE PAINT	H 50mm X 150mm S4S WOOD FINISH PAINTED w/ ENAMEL QDE PAINT	H 50mm X 150mm S4S WOOD FINISH PAINTED w/ ENAMEL QDE PAINT

PROPOSED COMMUNAL TOILET
SCHEDULE OF DOORS
SCALE: 1 : 30 M

		
W 1 SIX-BAY SLIDING GLASS WINDOW ON POWDER COATED ALUMINUM FRAME (6mm THICK ANNEALED CLEAR GLASS FOR WINDOW) (COLOR OF GLASS & FRAME; VERIFY TO ARCHITECT)	W 2 THREE-BAY SLIDING GLASS WINDOW ON POWDER COATED ALUMINUM FRAME (6mm THICK ANNEALED CLEAR GLASS FOR WINDOW) (COLOR OF GLASS & FRAME; VERIFY TO ARCHITECT)	W 3 ONE-BAY SLIDING GLASS WINDOW ON POWDER COATED ALUMINUM FRAME (6mm THICK ANNEALED CLEAR GLASS FOR WINDOW) (COLOR OF GLASS & FRAME; VERIFY TO ARCHITECT)
DIMENSION 2250mm X 600mm	DIMENSION 1200mm X 600mm	DIMENSION 600mm X 600mm
HARDWARES COMPLETE HARDWARE & ACCESSORIES	HARDWARES COMPLETE HARDWARE & ACCESSORIES	HARDWARES COMPLETE HARDWARE & ACCESSORIES
LOCATION MALE & FEMALE TOILET	LOCATION PWD	LOCATION COMMON TOILET (CT)
NO. OF SETS 2 SET	NO. OF SETS 1 SET	NO. OF SETS 1 SET
J 50mm x 150mm ALUMINUM FRAME	J 50mm x 150mm ALUMINUM FRAME	J 50mm x 150mm ALUMINUM FRAME
H 50mm x 150mm ALUMINUM FRAME	H 50mm x 150mm ALUMINUM FRAME	H 50mm x 150mm ALUMINUM FRAME
M 1700mm CONCRETE WINDOW SILL	M 1700mm CONCRETE WINDOW SILL	M 1700mm CONCRETE WINDOW SILL
S 1700mm CONCRETE WINDOW SILL	S 1700mm CONCRETE WINDOW SILL	S 1700mm CONCRETE WINDOW SILL

PROPOSED COMMUNAL TOILET
SCHEDULE OF WINDOWS
SCALE: 1 : 30 M

CONSTRUCTION NOTES:

STEEL:

- REINFORCING STEEL BAR:
PROVIDE THE FOLLOWING UNLESS INDICATED OTHERWISE:
A. MAIN BARS
ALL MAIN REINFORCING BARS SHALL BE DEFORMED CONFORMING TO ASTM A706.
B. YIELD STRENGTH
THE MINIMUM YIELD STRENGTH OF REINFORCEMENT TO BE USE CORRESPONDING TO THE STRUCTURAL MEMBER SHALL BE ENUMERATED BELOW:
FOOTINGS/ FOOTING TIE BEAMS Fy = 60,000 Psi
COLUMNS/ BEAMS Fy = 60,000 Psi
SLABS (ON GRADE AND SUSPENDED) Fy = 40,000 Psi
- ASTM 36 GRADE 36 (Fy = 248 KPa, 36 Ksi) FOR ROOF RAFTERS.
- STEEL TRUSS:
A. DOUBLE ANGLE SHALL BE PLACED BACK TO BACK WITH 6mm THK GUSSET PLATE AT CONNECTION.
B. SPLICE PLATE SHALL BE 10mm THK STEEL PLATE.
C. WELDED CONNECTION SHALL DEVELOP 125% OF THE STRENGTH OF MEMBERS BEING CONNECTED.
- BOLTS, NUTS, AND WASHERS:
PROVIDE THE FOLLOWING UNLESS INDICATED OTHERWISE:
A. BOLTS: ASTM A 307, GRADE A; ASTM A 325 TYPE 1 OR TYPE II.
B. NUTS: ASTM A 563, GRADE A; HEAVY HEX STYLE, EXCEPT NUTS UNDER 1-½ INCH MAYBE PROVIDED IN HEX STYLE.
C. WASHERS: ANSI B 18.22.1, TYPE B.

CONCRETE:

- X DESIGN SHALL CONFORM TO ACI 211.1 AND ACI 301. THE MINIMUM 28-DAY CYLINDER COMPRESSIVE STRENGTH SHALL BE:
F'c = 28.00 MPa (2500Psi) FOUNDATIONS, COLUMNS, BEAMS, SUSPENDED SLABS.
F'c = 24.00 MPa (3500Psi) SLAB ON FILL, GRADED SLABS.
- CEMENT
CEMENT FOR THE CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR PORTLAND CEMENT" (ASTM C150, LATEST EDITION).
- CONCRETE AGGREGATES
A. FINE AGGREGATE
FINE AGGREGATES SHALL CONSIST OF NATURAL PORAC SAND. FINE AGGREGATES SHALL CONSIST OF HARD, TOUGH, DURABLE, UNCOATED PARTICLES. THE STIPULATED PERCENTAGE OF FINES IN THE SAND SHALL BE OBTAINED EITHER BY THE PROCESSING OF NATURAL SAND OR BY THE PRODUCTION OF A SUITABLY GRADED MANUFACTURED SAND.
B. COARSE AGGREGATE
COARSE AGGREGATES SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL OR ROCK, OR A COMBINATION OF GRAVEL AND CRUSHED GRAVEL OR ROCK, APPROVED BY THE STRUCTURAL ENGINEER. THE COARSE AGGREGATE, AS DELIVERED TO THE SITE, SHALL HAVE UNIFORM AND STABLE MOISTURE CONTENT.
THE SIZES OF COARSE AGGREGATE TO BE USED IN THE VARIOUS PARTS OF THE WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING OR AS DIRECTED BY THE STRUCTURAL ENGINEER.

GENERAL USE	SIZES	
FOOTINGS	1" OR ¾"	25mm OR 19mm
R.C. BEAMS, COLUMNS, SLABS, WALLS, WALL FOOTING, LINTEL BEAMS	¾"	19mm

C. WATER
WATER USED IN MIXING CONCRETE SHALL BE CLEAN AND FREE FROM INJURIOUS AMOUNTS OF OILS, ACIDS, SALTS, ALKALIS, ORGANIC MATERIALS OR OTHER SUBSTANCES DELETERIOUS TO CONCRETE OR STEEL.
D. ADMIXTURE
ADMIXTURES TO BE USED IN CONCRETE SHALL BE SUBJECT TO PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. USE DARACEM RM AND/OR PRIMEPLAST R1 SUPER PLASTICIZERS FOR ALL CONCRETE MIX. SUPER PLASTICIZERS SHALL BE ADDED ONLY AFTER THE MIX HAS COMPLIED WITH THE SLUMP REQUIREMENT OF NOT MORE THAN 50mm.

CONCRETE SLAB ON FILL:

- THE CONCRETE SLAB ON FILL SHALL BE LAID ON A PREPARED FOUNDATION CONSISTING OF A SUB GRADE AND GRANULAR FILL WITH THICKNESS EQUAL TO THE THICKNESS OF OVERLYING SLAB EXCEPT AS INDICATED OTHERWISE.
A. SUBGRADE SHALL BE ROLLED, RAMMED, AND TAMPED TO A THOROUGHLY COMPACTED FOUNDATION.

FOUNDATION:

- A. ALLOWABLE BEARING CAPACITY SHALL BE 130 KPA FOR DL + LL + EQ COMBINATION.
- B. EXCAVATION FOR FOOTINGS SHALL BE CARRIED TO A DEPTH AS SPECIFIED IN THE PLANS.

REINFORCED CONCRETE BEAM:

- A. UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS, CAMBER ALL R.C. BEAMS AT LEAST 6mm FOR EVERY 4.5M OF SPAN EXCEPT CANTILEVERS WHICH SHALL 18mm FOR EVERY 3M OF SPAN.
- B. IF THERE ARE TWO (2) OR MORE LAYERS OF REINFORCING BARS, USE 25mm DIAMETER SEPARATORS SPACED AT 900mm O.C.
- C. TOP BARS SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTH BAR SPLICES AT COLUMN SUPPORTS.
- D. PROVIDE AT LEAST 10mm Ø STIRRUPS SPACED AT 150mm O.C. AT BEAM SUPPORTS, THE FIRST STIRRUP LOCATED 50mm FROM THE FACE OF THE COLUMN UNLESS CLOSER SPACING IS SPECIFIED IN THE STRUCTURAL PLANS.

CHB WALL:

- A. VERTICAL AND HORIZONTAL REINFORCEMENT
UNLESS OTHERWISE SPECIFIED, THE VERTICAL AND HORIZONTAL REINFORCEMENTS FOR CHB SHALL BE 10mm Ø AT 600mm FOR ALL WALL THICKNESS. LAP SLICES SHALL BE 300mm LONG (MINIMUM).
- B. DOWELS
WHERE CHB WALLS ADJOIN R.C. COLUMNS AND BEAMS, PROVIDE DOWELS ON R.C. COLUMN AND BEAMS PRIOR TO POURING TO MATCH CHB WALL REINFORCEMENT. THE DOWELS SHALL BE 12mm BARS AT 400mm O.C., UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- C. ANCHORS
WHERE COLUMNS AND BEAMS HAVE BEEN POURED WITHOUT THE CHB WALL DOWELS, PROVIDE 16mm Ø EXPANSION BOLTS AT 400mm O.C. THESE ANCHORS SHALL BE DRILLED AND HAMMERED IN PLACE. NO CHIPPING-OFF OF CONCRETE COLUMNS AND BEAMS IS ALLOWED UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.

CONCRETE PROTECTION FOR REINFORCEMENT:

- A. CONCRETE COVER
THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING BARS. FOR BUNDLES, THE MINIMUM COVER SHALL EQUAL THE EQUIVALENT DIAMETER OF THE BUNDLE BUT NEED NOT BE MORE THAN 2 INCHES ON THE TABULATED MINIMUM WHICHEVER IS GRATER.

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
EXPOSED TO EARTH, WEATHER OR CORROSIVE SUSTANCE
20mm Ø AND LARGER
18mm Ø AND SMALLER

NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND, SLABS
WALLS, AND JOINTS
25mm Ø AND SMALLER

BEAMS, GIRDERS AND COLUMNS PRINCIPAL REINFORCEMENT,
TIES STIRRUPS OR SPIRALS

STANDARD HOOK:

- A. REBARS
a. A SEMI-CIRCULAR TURN PLUS AN EXTENSION OF AT LEAST 4 DIAMETERS BUT NOT LESS THAN 62mm AT THE FREE END OF THE BAR.
b. A 90 DEGREE TURN PLUS AN EXTENSION OF AT LEAST 12 BARS DIAMETER AT THE FREE END OF THE BAR.
- B. BEND DIAMETER
MINIMUM DIAMETERS OF BEND MEASURED ON THE INSIDE OF THE BAR SHALL BE AS FOLLOWS:
10mmØ TO 25mmØ
28mmØ TO 32mmØ

WELDING:

- WELDING ELECTRODES AND RODS, CONFORMED TO AWS D1.1
A. LAP WELDED SPLICE
WHEN USED, SHALL DEVELOP A RESISTANCE EQUAL TO AT LEAST 125% OF THE TENSILE CAPACITY OF THE BAR BEING SPLICED.
B. BUTT-WELDED SPLICE
WHEN USED, SHALL BE CONSIDERED 75% EFFICIENT. THE REMAINING 50% CAPACITY TO DEVELOP 125% OF THE TENSILE CAPACITY OF THE BAR SHALL BE PROVIDED FOR BY AN ADDITIONAL WELDED LAP SPLICE CONNECTION ON THE SAME JOINT.
C. DETAILS/ REQUIREMENTS
DETAILS OF ALL WELDED SPLICES SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE STRUCTURAL ENGINEER. ONLY CERTIFIED WELDERS SHALL BE ALLOWED TO PERFORM WELDING OPERATIONS. THESE WELDERS SHALL SUBJECT TO THE APPROVAL OF THE PROJECT MANAGER.

PAINTINGS:

- SHOP PAINT STRUCTURAL STEEL, EXCEPT AS MODIFIED HEREIN. DO NOT PAINT STEEL SURFACES EMBEDDED IN CONCRETE, GALVANIZED SURFACES, OR SURFACES WITHIN ½" OF THE TOE OF THE WELDS PRIOR TO WELDING. PRIOR TO ASSEMBLY, PAINT SURFACES WHICH WILL BE CONCEALED OR INACCESSIBLE AFTER ASSEMBLY. DO NOT PAINT IN FOGGY OR RAINY WEATHER; WHEN THE AMBIENT TEMPERATURE IS BELOW 45°F OR OVER 95°F; OR WHEN PAINT MAY BE EXPOSED TO TEMPERATURES BELOW 40°F WITHIN 48 HRS AFTER APPLICATION, UNLESS APPROVED OTHERWISE.
A. CLEANING:
SSPC SP 6, EXCEPT AS MODIFIED HEREIN. SSPC SP 3 OR SP 6 FOR STEEL SURFACES EXPOSED IN SPACES ABOVE CEILINGS, ATTIC SPACES, CRAWL SPACES, FURRED SPACES, AND CHASES. IN ADDITION, MAINTAIN STEEL SURFACES FREE FROM RUST, DIRT, OIL, GREASE, AND OTHER CONTAMINANTS THROUGH FINAL ASSEMBLY.
B. PRETREATMENT:
IMMEDIATELY AFTER CLEANING, PROVIDE THE METAL SURFACES WITH ONE COAT OF MIL. SPEC. DOD-P-15328 PRETREATMENT TO A DRYFILM THICKNESS OF 0.3 TO 0.5 MIL. FED. SPEC. TT-C-490 PRETREATMENT MAY BE APPLIED TO SSPC SP 6 CLEANED SURFACES, IN ACCORDANCE WITH FED. SPEC. TT-C-490.
C. PRIMING:
IMMEDIATELY AFTER THE PRETREATMENT COATING HAS DRIED, APPLY PRIMER TO A MINIMUM DRY FILM THICKNES OF 2.0 MIL. REPAIR DAMAGED PRIMED SURFACES WITH AN ADDITIONAL COAT PRIMER.



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AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	EVB (jngz27)
CHECKED BY:	EJCJR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

BORONGAN AIRPORT
DEVELOPMENT PROJECT

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:
CONSTRUCTION NOTES

DRAWING SCALE:	SHEET NO:
AS SHOWN	S 01



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CAAP.

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AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (JANGZ27)
CHECKED BY:	E.J.D.R.
REVIEWED BY:	

REVIEWED BY:

RAUL R. CRUCENA
DIVISION CHIEF, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
DEPARTMENT MANAGER, IIAED-ADMS

RECOMMENDED APPROVAL:

LT COL. VALERIANO A. DIONELA, PAF (RET.)
ASSISTANT DIRECTOR GENERAL, IIAED-ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
DIRECTOR GENERAL

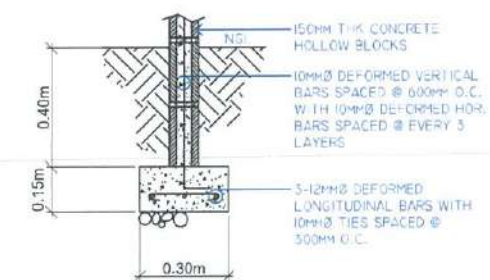
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
(CONSTRUCTION OF TOILET)

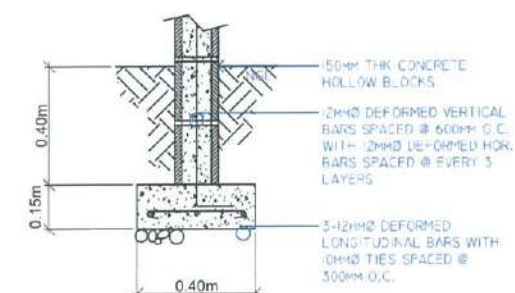
LOCATION:
BORONGAN AIRPORT
BORONGAN

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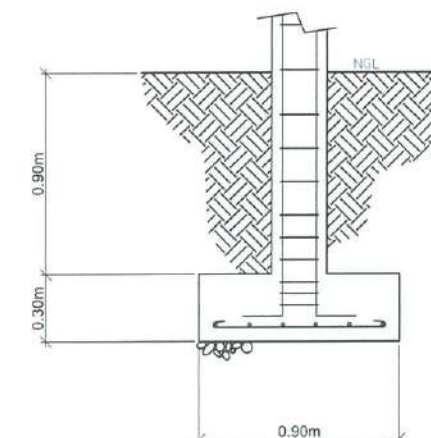
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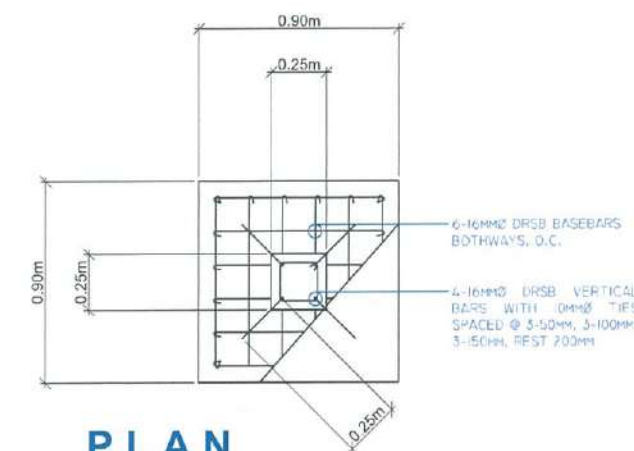
4 DETAIL OF WF2
SCALE 1:20 mts



3 DETAIL OF WF1
SCALE 1:20 mts

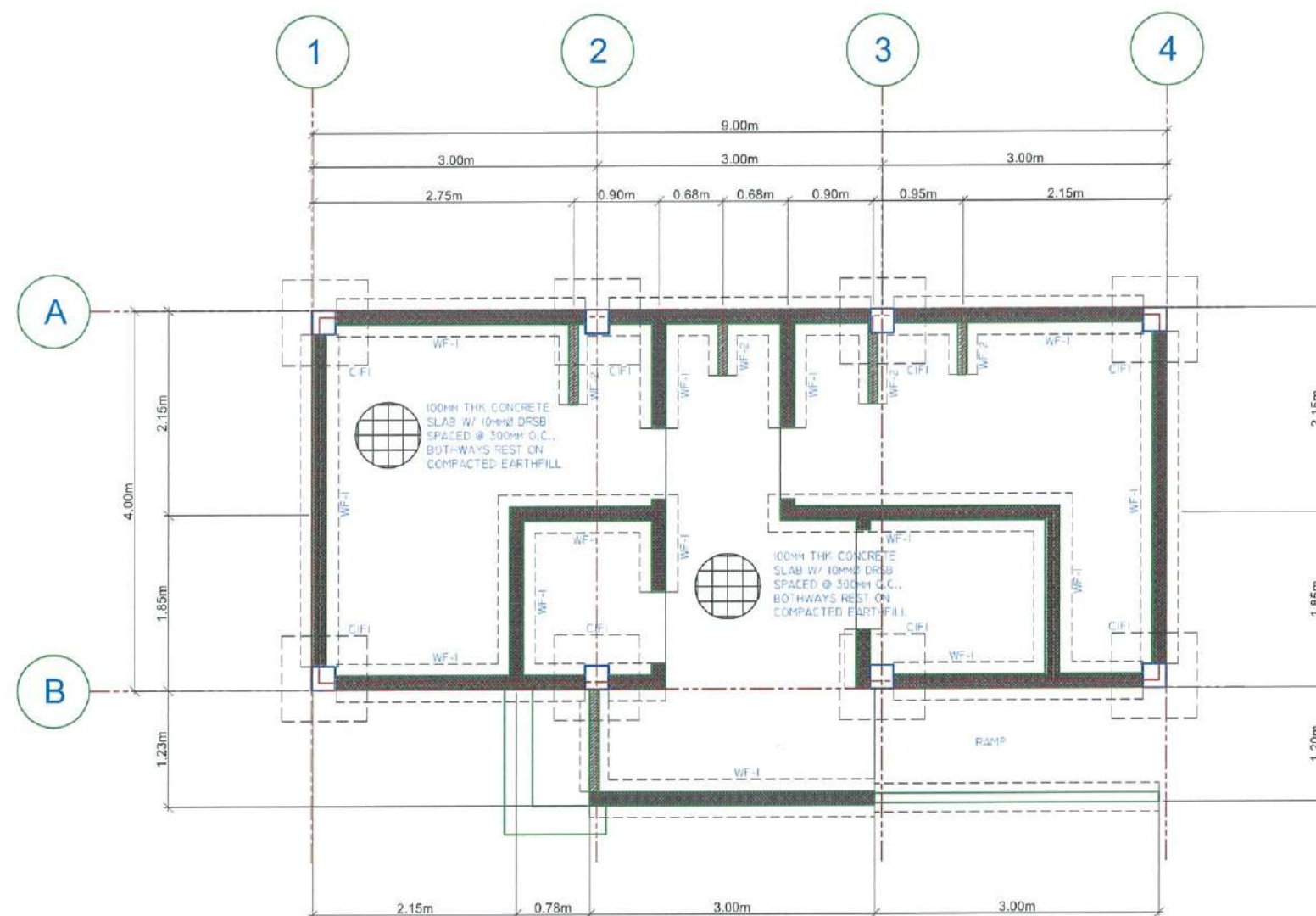


SECTION



PLAN

2 DETAIL OF CIFI
SCALE 1:20 mts



1 FOUNDATION PLAN
SCALE 1:40 mts

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INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	1000
DRAWN BY:	E.V.B. (JAN227)
CHECKED BY:	E.J.D.R.
REVIEWED BY:	

RAUL R. BRUCENA
DIVISION CHIEF II, AED-ADMS

ARNEL F. BORLADO
DEPARTMENT MANAGER II, AED-ADMS

LT COL. VALENTINO A. DIONELA, PAF (RET)
ASSISTANT DIRECTOR GENERAL II, ADMS

CAPTAIN MARCO ANTONIO L. TAMAYO
DIRECTOR GENERAL

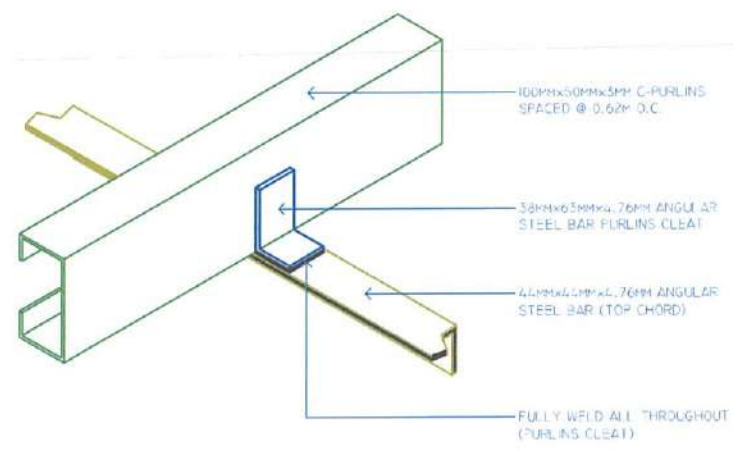
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PROJECT:
BORONGAN AIRPORT DEVELOPMENT PROJECT
(CONSTRUCTION OF TOILET)

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

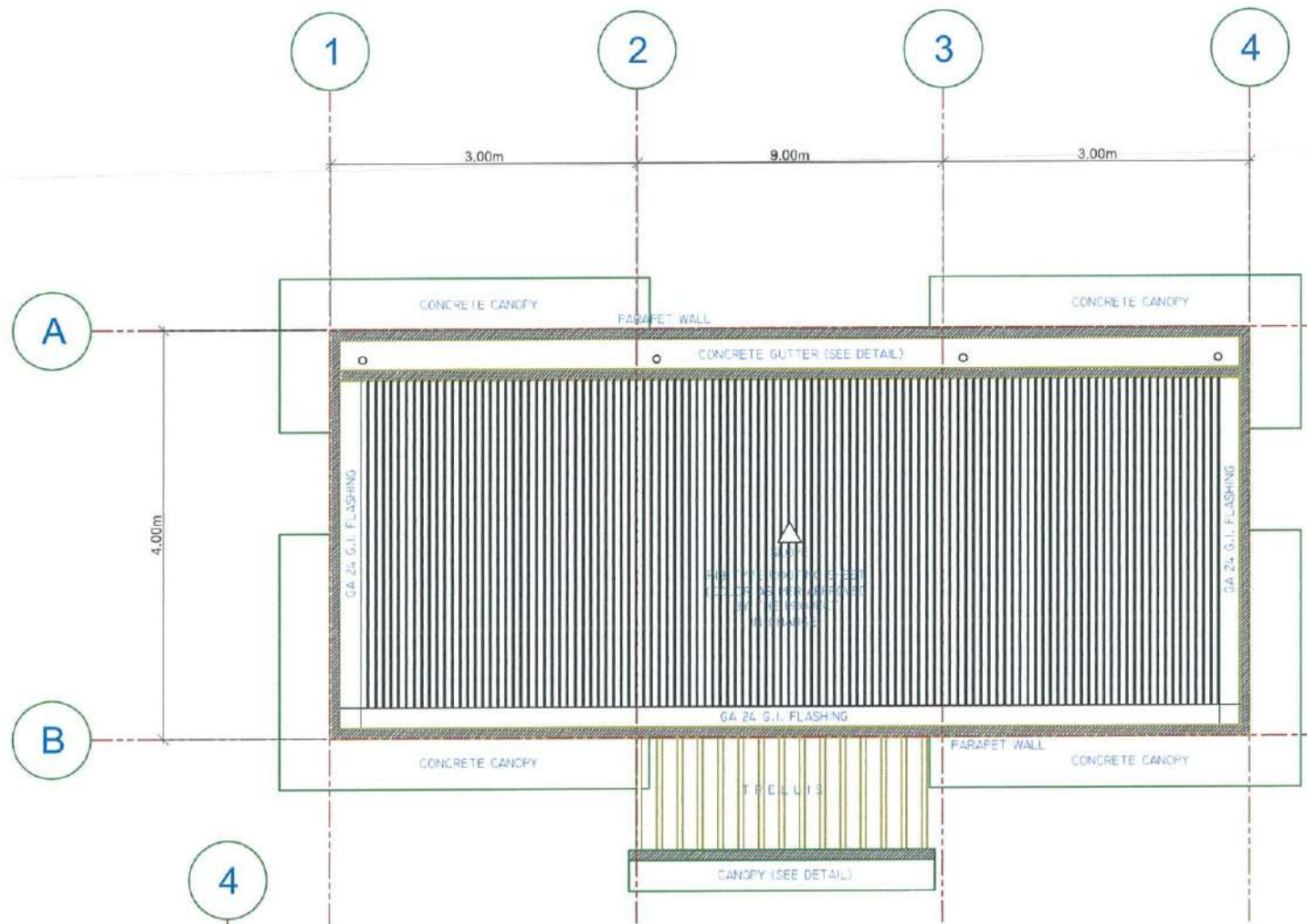
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AS SHOWN	S 004



ISOMETRIC DETAIL OF PURLINS CLEAT

10
S-4 S-4
SCALE

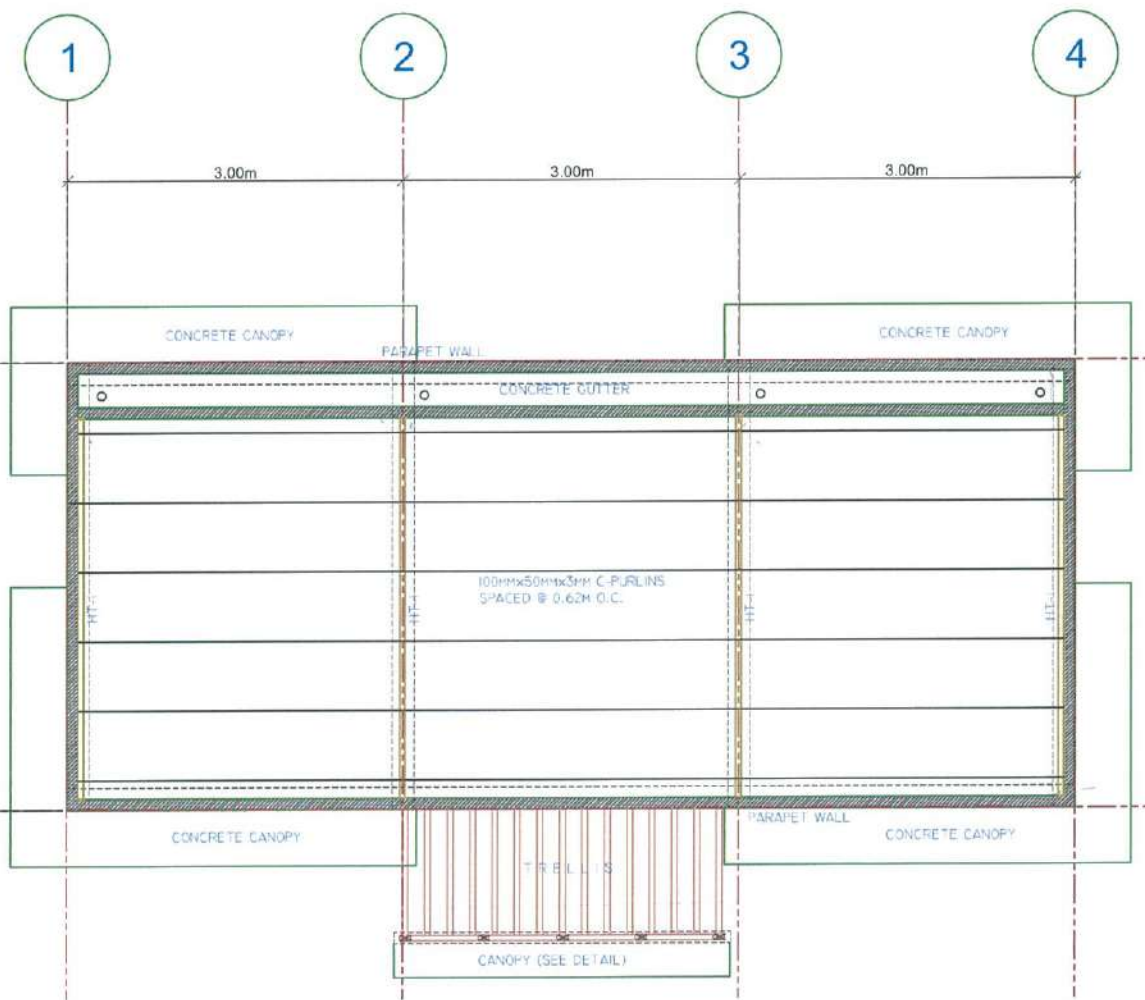
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8 ROOF PLAN

S-4 S-4
SCALE

1:40 mts

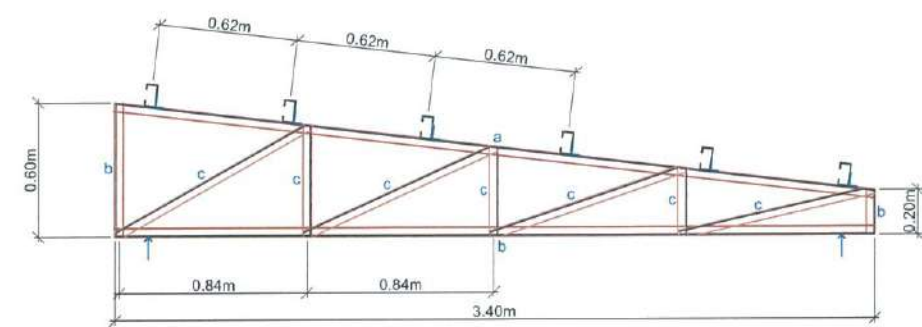


7 ROOF FRAMING PLAN

S-4 S-4
SCALE

1:40 mts

TYPE	MEMBER DESIGNATION	GUSSET	WELD	REMARKS
a	46mmx5mmxL 76mm ANGULAR STEEL BAR			
b	46mmx5mmxL 76mm ANGULAR STEEL BAR			
c	38mmx5mmxL 76mm ANGULAR STEEL BAR			



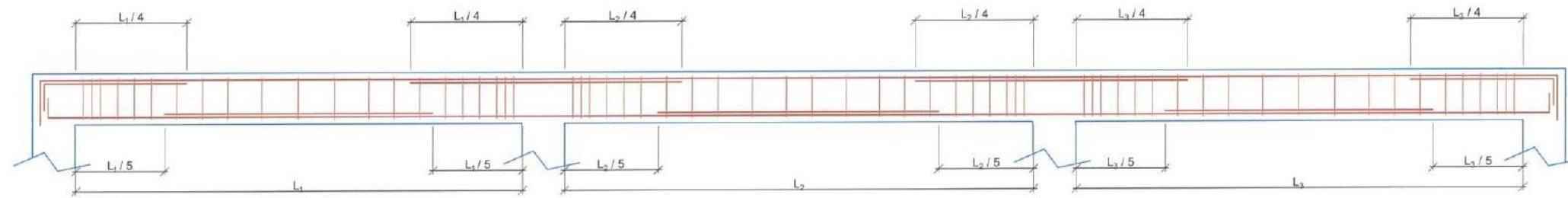
9 DETAIL OF HT-1

S-4 S-4
SCALE

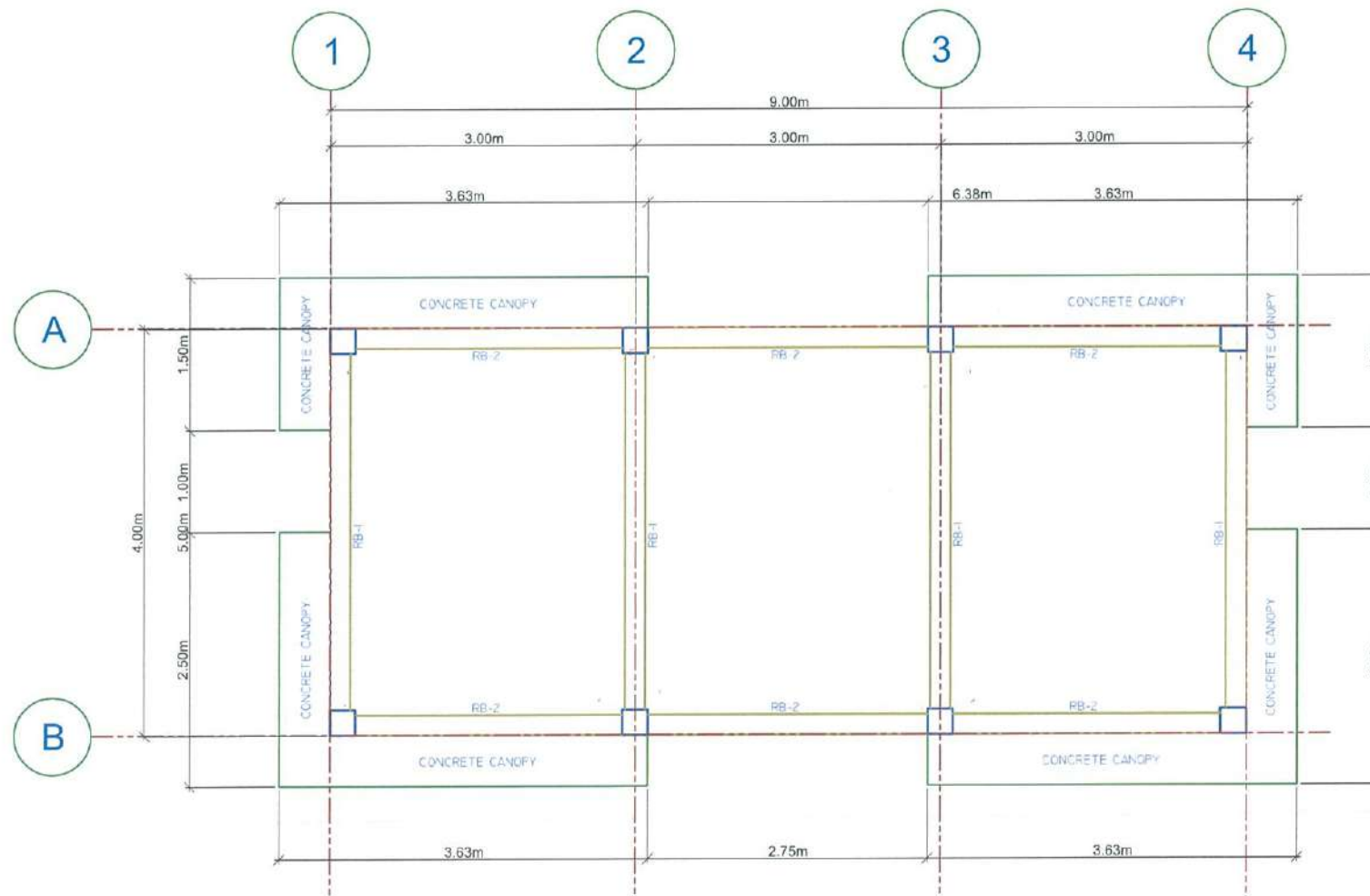
1:20 mts

SCHEDULE OF BEAM/GIRDER

MARK	DIMENSION (MILLIMETERS)	BEAM SECTION						STIRRUPS (10mmØ DRSB)	LENGTH (METERS)	REMARKS
		LEFT	COUNT	MID	COUNT	RIGHT	COUNT			
RB-1	200mm×300mm		4-16mmØ 2-16mmØ		2-16mmØ 4-16mmØ		4-16mmØ 2-16mmØ	3-50mm, 3-100mm, 3-150mm, REST 200mm O.C TO CL. TIES: # 16 G.I. TIE WIRE	4.00 METERS CENTER TO CENTER	4.00 SETS VERIFY
RB-2	200mm×300mm		4-16mmØ 2-16mmØ		2-16mmØ 4-16mmØ		4-16mmØ 2-16mmØ	3-50mm, 3-100mm, 3-150mm, REST 200mm O.C TO CL. TIES: # 16 G.I. TIE WIRE	3.00 METERS CENTER TO CENTER (VERIFY ACTUAL)	6.00 SETS VERIFY



6 TYPICAL DETAIL OF ROOF BEAM
SCALE 1:20 mts



5 ROOF BEAM FRAMING PLAN
SCALE 1:40 mts



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CAAP.

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INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY: IDDD	
DRAWN BY: E.V.B. (LANG227)	
CHECKED BY: E.DJR	

REVIEWED BY:

RAUL R. CRUZENA
DIVISION CHIEF II, AED - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
DEPARTMENT MANAGER II, AED-ADMS

RECOMMENDED APPROVAL:

LT COL. VALENTINO A. DIONELA, PAF (RET)
ASSISTANT DIRECTOR GENERAL II, ADMS

APPROVED:

CAPTAIN M. ANTONIO L. TAMAYO
DIRECTOR GENERAL

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
(CONSTRUCTION OF TOLLET)

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
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INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	1000
DRAWN BY:	E.V.B. (LANG227)
CHECKED BY:	E.J.C.R.
REVIEWED BY:	

RAUL R. CRUCENA
DIVISION CHIEF II, AED-ADMS

ARNEL F. BORLADO
DEPARTMENT MANAGER II, AED-ADMS

LT COL VALENTINO A. DIONELA, PAF (RET)
ASSISTANT DIRECTOR GENERAL II, ADMS

CAPTAIN MANUEL ANTONIO L. TAMAYO
DIRECTOR GENERAL

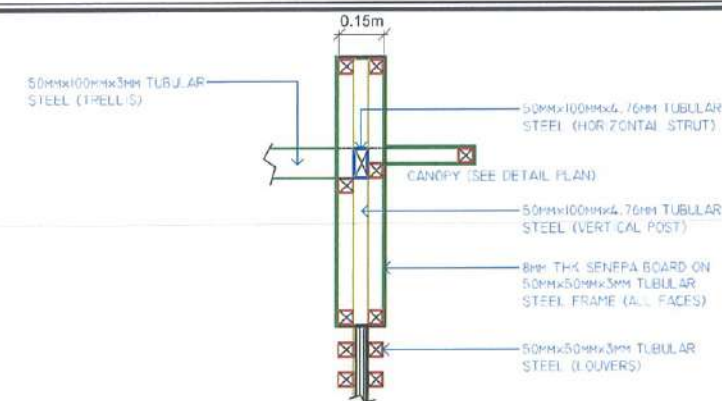
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PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
(CONSTRUCTION OF TOILET)

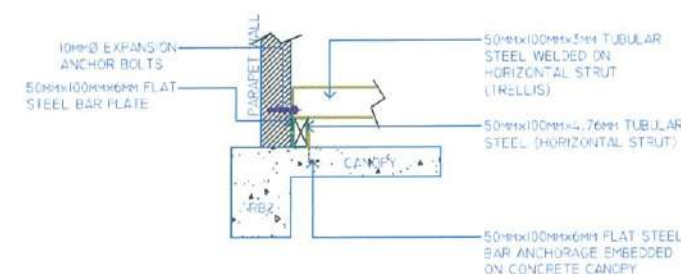
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BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

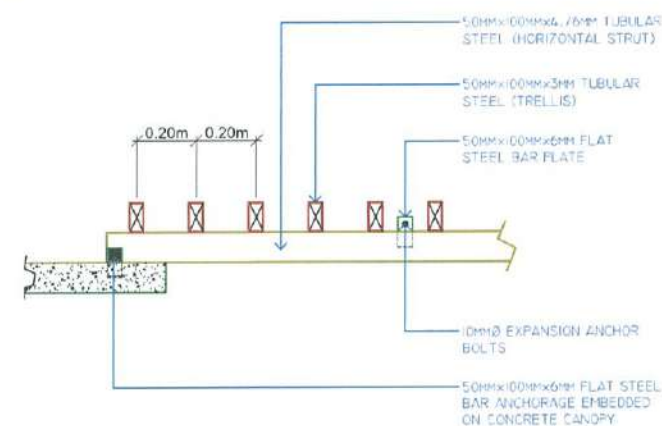
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AS SHOWN	S 006



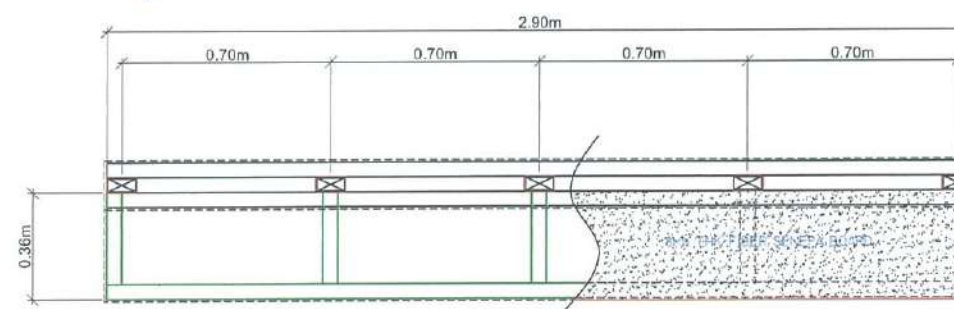
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DETAIL CONNECTION 03



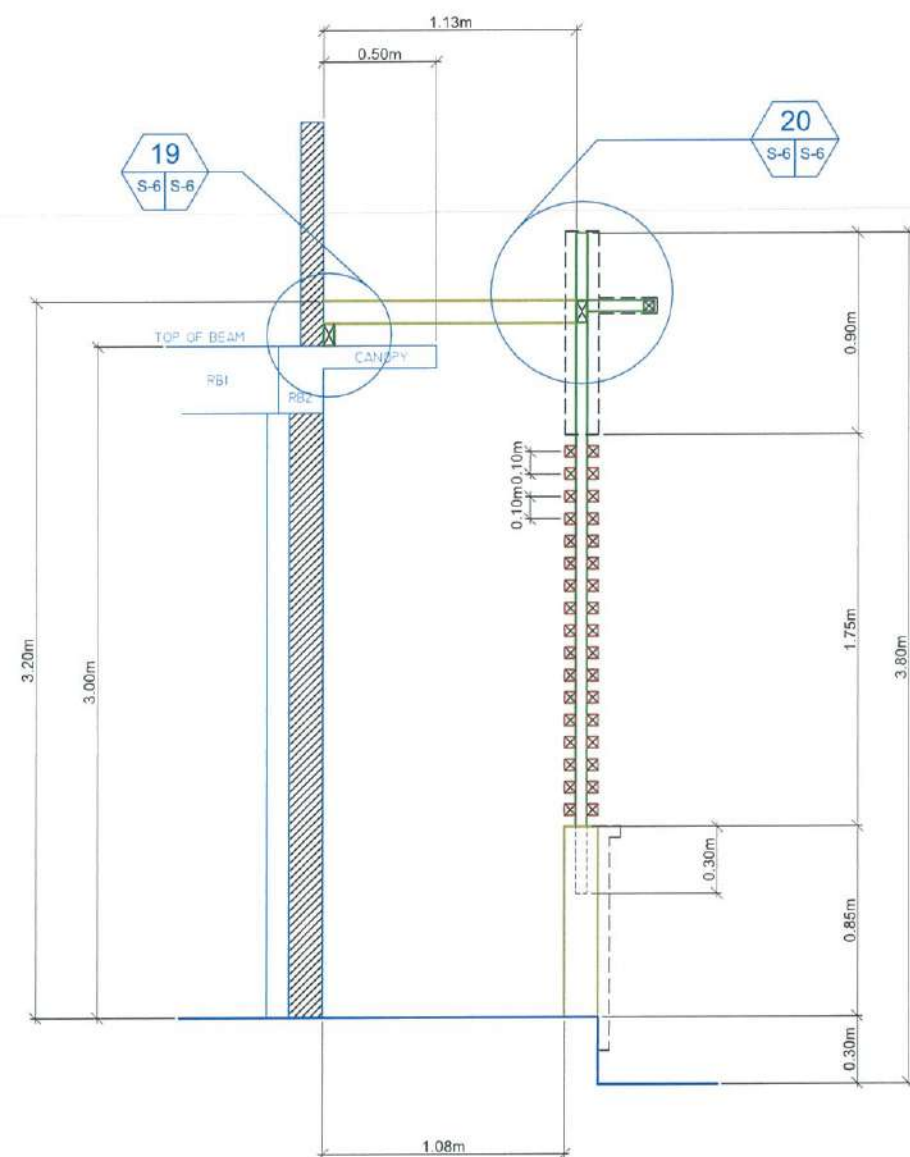
19
S-6 S-6 SCALE 1:15 mts
DETAIL CONNECTION 02



18
S-6 S-6 SCALE 1:15 mts
DETAIL CONNECTION 01



17
S-6 S-6 SCALE 1:20 mts
**FRAMING PLAN OF
STEEL FRAMED CANOPY**



16
S-6 S-6 SCALE 1:20 mts
DETAIL SECTION OF TRELLIS



15
S-6 S-6 SCALE 1:20 mts
DETAIL PLAN OF TRELLIS



REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IGDD
DRAWN BY:	E.V.B. (JAN227)
CHECKED BY:	E.J.D.R

REVIEWED BY:

RAUL R. BRUCENA
DIVISION CHIEF II, AED - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
DEPARTMENT MANAGER II, AED - ADMS

RECOMMENDED APPROVAL:

LT COL VALENTIN A. DIONELA, PAF (RET)
ASSISTANT DIRECTOR GENERAL II, ADMS

APPROVED:

CAPTAIN MANUEL DANILLO L. TAMAYO
DIRECTOR GENERAL

NOTES/REVISIONS:

PROJECT:

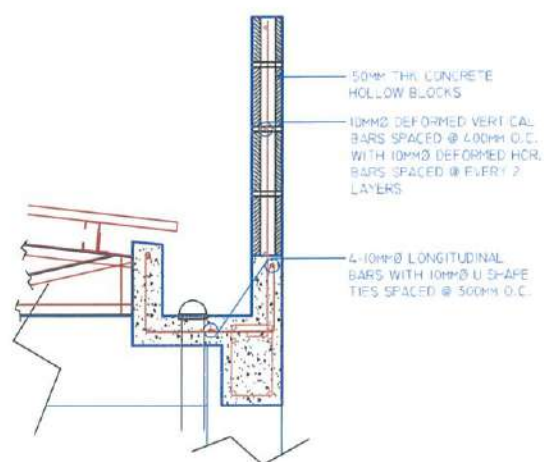
BORONGAN AIRPORT
DEVELOPMENT PROJECT
(CONSTRUCTION OF TOILET)

LOCATION:

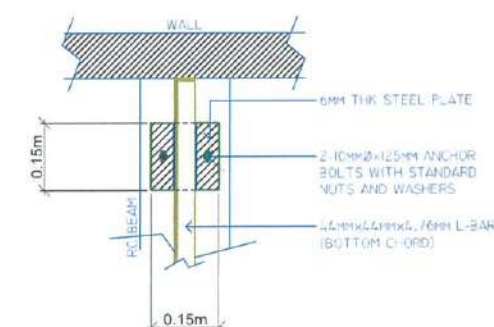
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

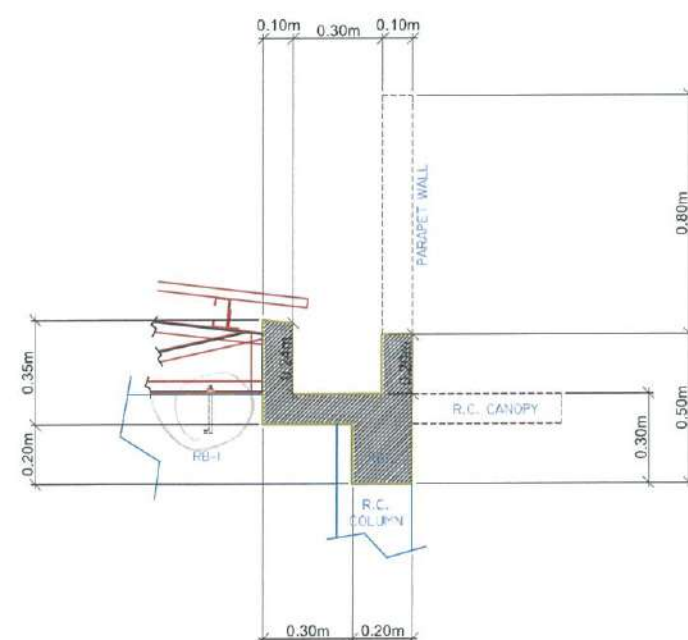
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AS SHOWN	S 005



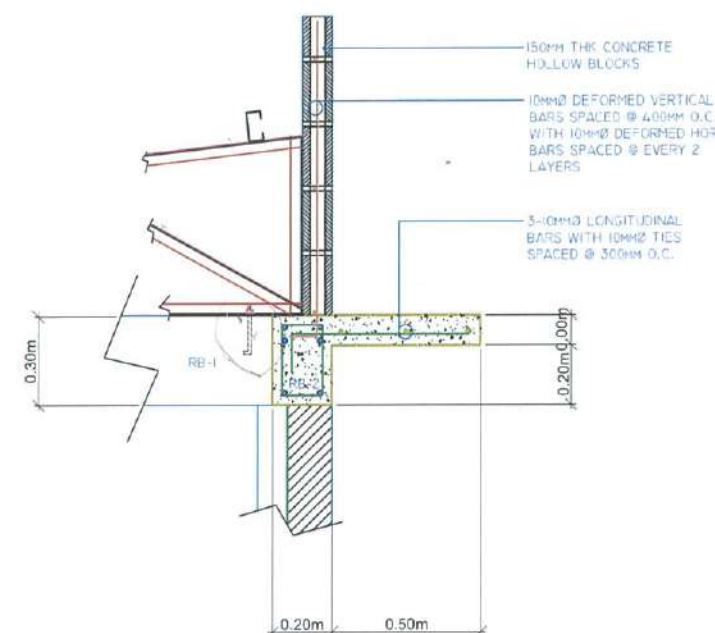
12 DETAIL REINF. OF CONCRETE GUTTER
S-5 S-5 SCALE 1:15 mts



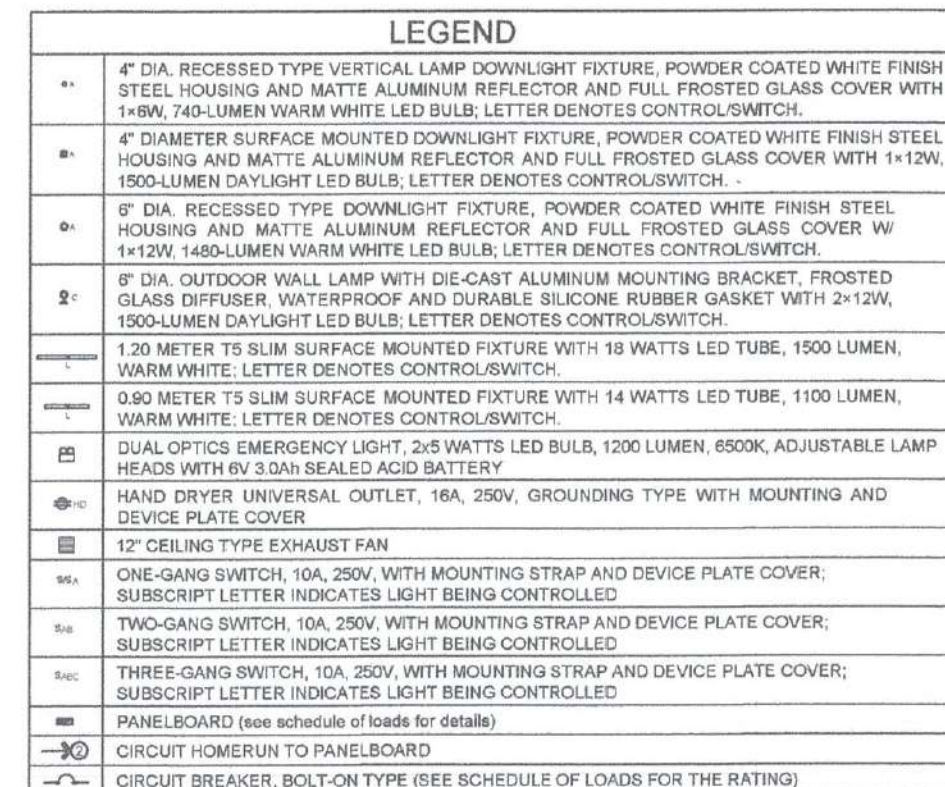
14 PLAN OF STEEL BASE PLATE
S-5 S-5 SCALE 1:20 mts



11 SECTION OF CONCRETE GUTTER
S-5 S-5 SCALE 1:20 mts



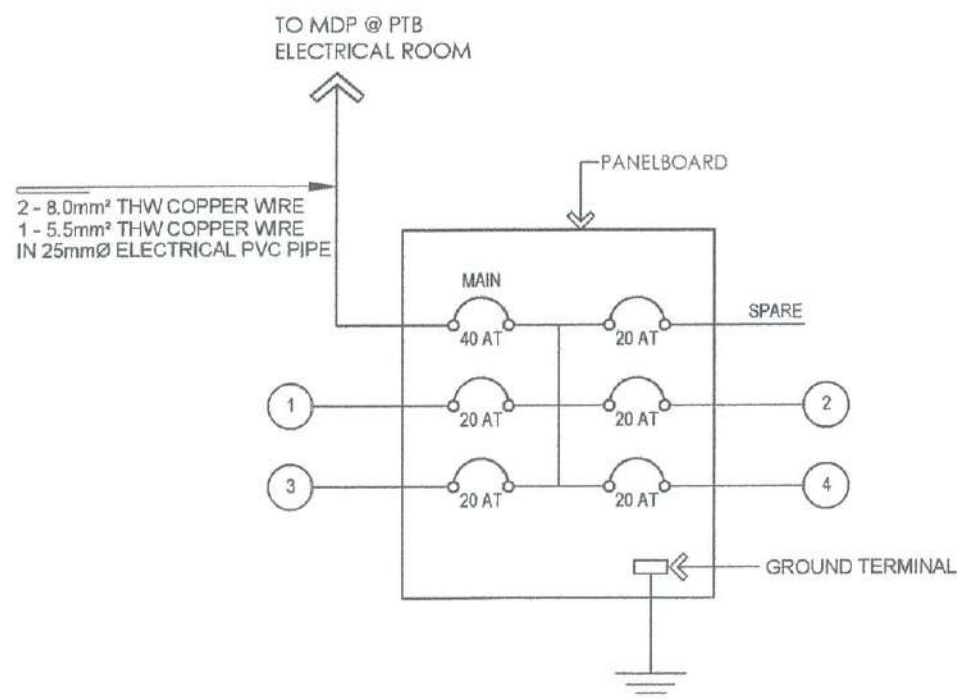
13 DETAIL OF CONCRETE CANOPY
S-5 S-5 SCALE 1:20 mts



 REPUBLIC OF THE PHILIPPINES CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAIA ROAD, 1300 PASAY CITY	 BACOD REGION
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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE	
INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION	
DESIGN STAFF:	INITIAL / DATE
DESIGNED BY: IDDD	
DRAWN BY: RUAJR	
CHECKED BY: EJDJR	
REVIEWED BY:	
 RAUL R. CRUCENA Division Chief III, IDDD - ADMS	
SUBMITTED BY:	
 ARNEL F. BORLADO Department Manager III, AED-ADMS	
RECOMMENDED APPROVAL:	
 LT COL. VALENTINO A. DIONELA, PAF (Ret) Assistant Director General II, ADMS	
APPROVED:	
 CAPTAIN MARCEL ANTONIO L. TAMAYO Director General	
NOTES/REVISIONS:	
_____ _____ _____ _____ _____	
PROJECT:	
BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF COMMUNAL TOILET	
LOCATION:	
BORONGAN AIRPORT BORONGAN	
SHEET CONTENTS:	
LIGHTING AND POWER LAYOUT PLAN LEGEND	
DRAWING SCALE:	SHEET NO:
AS SHOWN	E
	01

1. ALL ELECTRICAL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE REQUIREMENT OF THE PHILIPPINE ELECTRICAL CODE.
2. ALL MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR BOTH LOCATION AND PURPOSE INTENDED.
3. WIRES AND CABLES TO BE USED SHALL BE UNDERWRITERS LABORATORY (UL) LISTED.
4. MATERIALS AND EQUIPMENT TO BE USED (LIGHTING FIXTURES, BALLAST, FLUORESCENT TUBE, WIRING DEVICES, CIRCUIT BREAKERS, CONDUIT AND PIPES, ENCLOSURES, WIRES AND CABLES, ETC) SHALL HAVE IMPORTED COMMODITY CLEARANCE (ICC) LABEL FOR FOREIGN MADE PRODUCTS AND P.S. MARK FOR LOCAL IN NATURE OF THE BUREAU OF PRODUCT STANDARD (BPS).
5. EMERGENCY LIGHTS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT PROVIDED WITH SINGLE OUTLET.
6. JUNCTION BOXES AND PULL BOXES GAUGE NO. 16 (MINIMUM) SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER REQUIRED AND NECESSARY AND SHALL BE INSTALLED AT CONVENIENT SPACE AND LOCATION TO FACILITATE WIRE PULLING EVEN IF THESE ITEMS ARE NOT SHOWN IN THE PLAN.
7. PANEL BOARD SHALL BE FLUSH MOUNTED AND SHALL BE EQUIPPED WITH GROUND KIT TERMINALS WITH NUMBER OF TERMINALS EQUAL TO THE NUMBER OF BRANCH CIRCUITS.
8. ALL BRANCH CIRCUIT BREAKER SHALL BE BOLT-ON TYPE WITH 10 KAIC MINIMUM OR AS INDICATED IN THE LOAD SCHEDULE.
9. ALL WORKS SHALL BE EXECUTED IN A WORKMANSHIP MANNER AND SHALL PRESENT A NEAT AND ORDERLY ACCEPTANCE. ALL WIRING SHALL BE CONCEALED AS MUCH AS POSSIBLE.

PANELBOARD	1.83 M (6' 0")	FROM TOP OF PANEL TO FINISHED FLOOR LEVEL
HAND DRYER OUTLETS	1.30 M (4' 3")	FROM CENTER OF OUTLET TO FINISHED FLOOR LEVEL
WALL SWITCHES	1.37 M (4' 6")	FROM CENTER OF DEVICE TO FINISHED FLOOR LEVEL



PROPOSED COMMUNAL TOILET
SINGLE LINE DIAGRAM
 2
 E-02-E-02 SCALE: NTS

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMP	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING/EXHAUST FAN OUTLET	29	230	1450	1	6.30	20AT, 2P	2-3.5mm ² THHN/THWN-2 CU WIRE 1-3.5mm ² THHN/THWN-2 CU WIRE (G)	15mmØ EMT CONDUIT
2	HAND DRYER OUTLET	1	230	1500	1	6.52	20AT, 2P	2-3.5mm ² THHN/THWN-2 CU WIRE 1-3.5mm ² THHN/THWN-2 CU WIRE (G)	15mmØ EMT CONDUIT
3	HAND DRYER OUTLET	1	230	1500	1	6.52	20AT, 2P	2-3.5mm ² THHN/THWN-2 CU WIRE 1-3.5mm ² THHN/THWN-2 CU WIRE (G)	15mmØ EMT CONDUIT
4	HAND DRYER OUTLET	1	230	1500	1	6.52	20AT, 2P	2-3.5mm ² THHN/THWN-2 CU WIRE 1-3.5mm ² THHN/THWN-2 CU WIRE (G)	15mmØ EMT CONDUIT
5	SPARE		230	1200	1	5.22	20AT, 2P		
T O T A L						31.08			

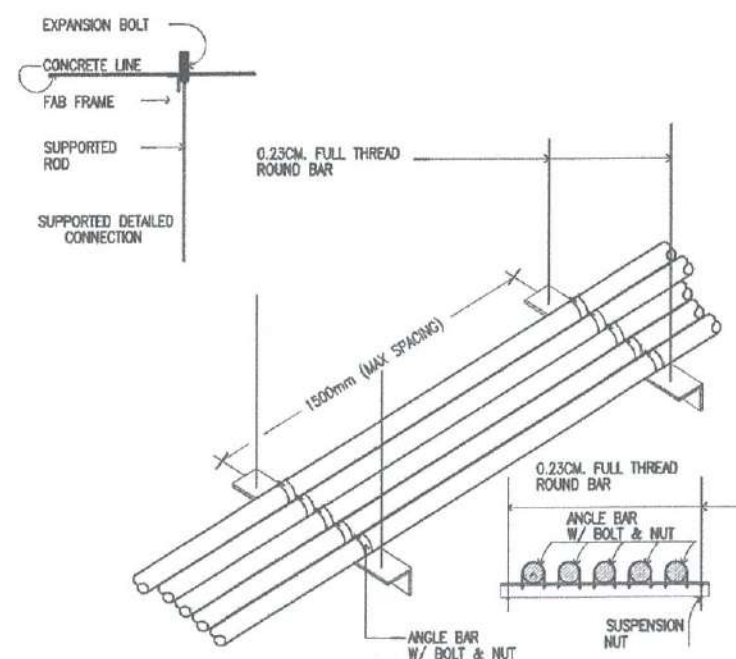
$I_T = 31.08 \times 1.25$
 $I_T = 38.85\text{ A}$

FOR THE FEEDER CONDUCTOR:
 USE: 2 - 8.0mm² THHN/THWN-2 COPPER WIRE
 1 - 5.5mm² THHN/THWN-2 COPPER WIRE
 IN 25mmØ ELECTRICAL PVC PIPE

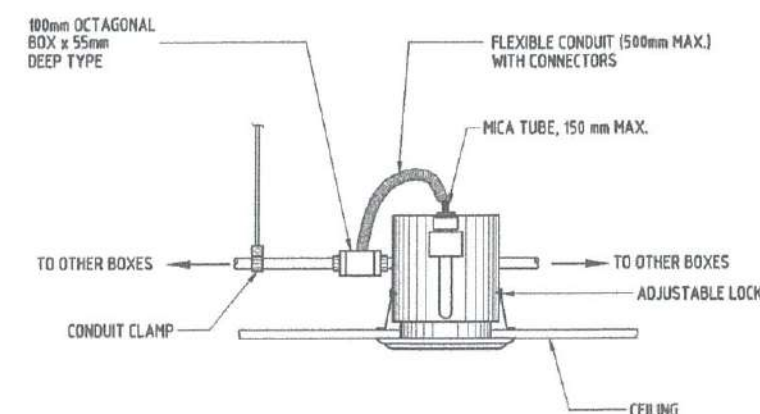
FOR THE FEEDER PROTECTION:
 USE: 40AT, 100AF, 2-POLE, 230V, 10KAIC CB

1
E-02E-02

SCALE:



CONDUIT ARRANGEMENT

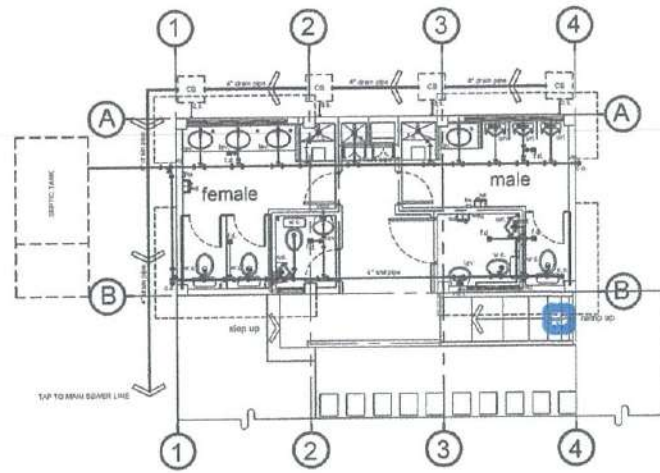


RECESSED DOWNLIGHT

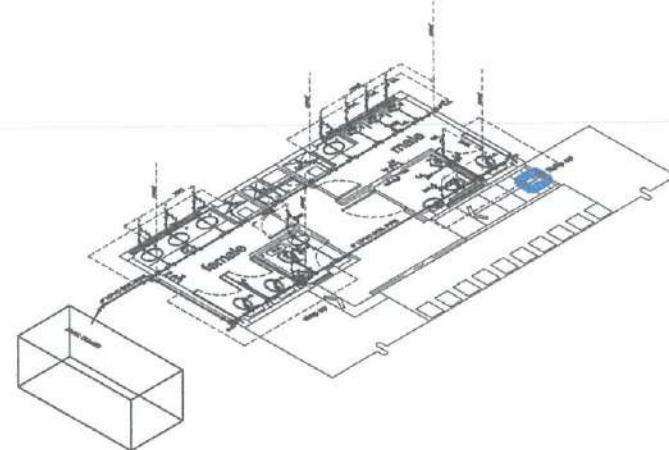
3
E-02E-02

SCALE:

NTS



PROPOSED COMMUNAL TOILET
GROUND PLUMBING LAYOUT PLAN
SCALE: 1:100 M



PROPOSED COMMUNAL TOILET
GROUND PLUMBING ISOMETRIC PLAN
SCALE: 1:100 M

GENERAL NOTES:

- IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND APPURTENANCE; ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE OWNER.
- ALL PLUMBING WORKS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES, THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTION OFFICE, PERTINENT PROVISIONS OF THE UNIFORM BUILDING CODE AND UNIFORM PLUMBING CODE.
- HORIZONTAL SANITARY SEWER PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AT A MINIMUM SLOPE OF 1% FOR PIPES 100mmØ & LARGER & 2% FOR 75mmØ & SMALLER.
- ALL VENT PIPES SHALL BE FREE FROM DROPS OR SAGS AND SHALL BE SLOPED OR GRADED AS TO DRIP BACK BY GRAVITY TO THE DRAINAGE PIPE IT SERVES.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE, THAT IS, THE ACTUAL PIPE SIZES, LOCATIONS, DEPTHS, TOP AND INVERT ELEVATIONS OF ALL EXISTING PIPES AND RELATED STRUCTURES. THE CONTRACTORS SHALL PROVIDE THE NECESSARY EXCAVATIONS, BACKFILLING AND SURFACE RESTORATION OF THE AFFECTED AREAS IN THE LAYING OF SEWER, STORM DRAINAGE AND WATER SUPPLY LINES.
- ALL DIMENSIONS AND PIPE SIZES ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- THE DIGESTIVE CHAMBER OF SEPTIC TANK MUST BE WATERPROOF.
- NO SEPTIC TANK SHALL BE CONSTRUCTED UNDER THE BUILDING.
- ALL PLUMBING INSTALLATIONS SHALL BE COORDINATED w/ LICENSED SANITARY ENGINEER OR REGISTERED MASTER PLUMBER.
- ANY REVISIONS/CHANGES IN THE PLAN SHALL REQUIRE THE PRIOR APPROVAL OF OF THE LICENSED SANITARY ENGINEER OR REGISTERED MASTER PLUMBER.

MATERIAL'S SPECIFICATION:

WATER LINE PIPE

- SHALL BE G.I. PIPE OR UPVC PIPE.

SOIL AND WASTE PIPE

- SHALL BE UPOLYVINYL CHLORIDE (UPVC) PIPE SERIES 1000 II, "EMERALD" BRAND OR APPROVED EQUAL.
- FITTING SHALL BE SOLVENT CEMENT JOINT CONFORMING TO ASTM D2564.

VENT AND VENT STACK

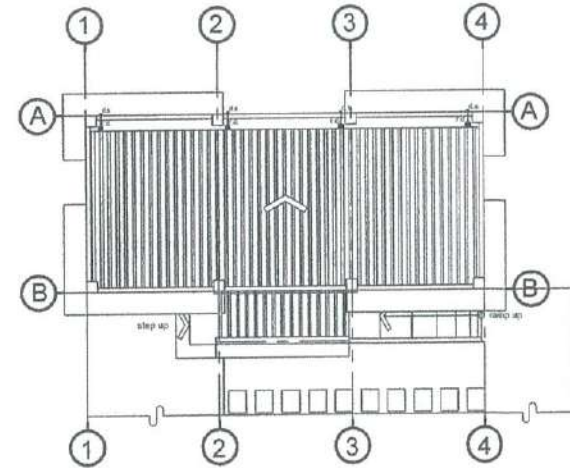
- SHALL BE UPOLYVINYL CHLORIDE (UPVC) PIPE SERIES 1000 II, "EMERALD" BRAND OR APPROVED EQUAL.
- FITTING SHALL BE SOLVENT CEMENT JOINT CONFORMING TO ASTM D2564.

DOWNSPOUT

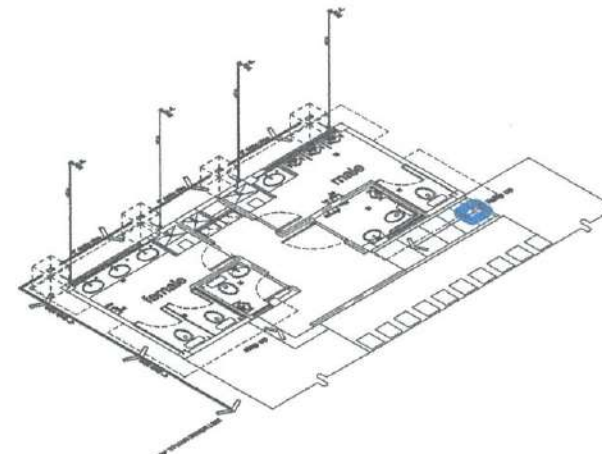
- SHALL BE UPOLYVINYL CHLORIDE (UPVC) PIPE SERIES 1000 II, "EMERALD" BRAND OR APPROVED EQUAL.
- FITTING SHALL BE SOLVENT CEMENT JOINT CONFORMING TO ASTM D2564.

STORM DRAINAGE SYSTEM

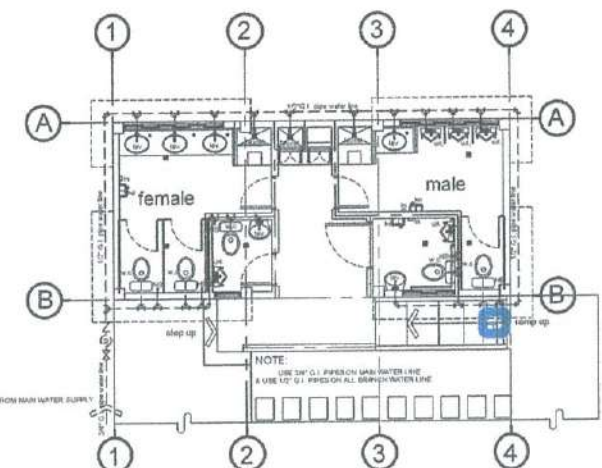
- SHALL BE UPOLYVINYL CHLORIDE (UPVC) PIPE SERIES 1000 II, "EMERALD" BRAND OR APPROVED EQUAL.
- FITTING SHALL BE SOLVENT CEMENT JOINT CONFORMING TO ASTM D2564.
- FOR OUTSIDE BUILDING, CONCRETE DRAIN PIPE (CDP), TONGUE AND GROOVE, MORTAR JOINTS.
- RE-INFORCED FOR 300mmØ AND LARGER.



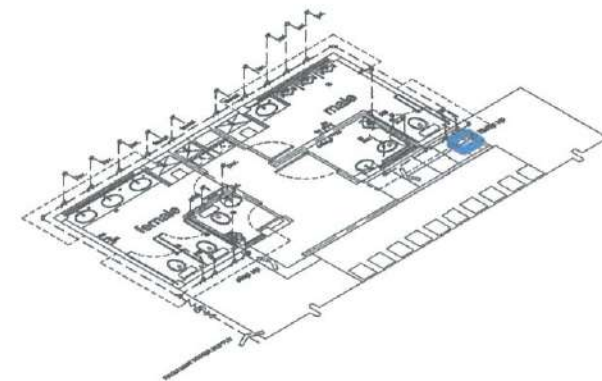
PROPOSED COMMUNAL TOILET
ROOF PLUMBING LAYOUT PLAN
SCALE: 1:100 M



PROPOSED COMMUNAL TOILET
ROOF PLUMBING ISOMETRIC PLAN
SCALE: 1:100 M



PROPOSED COMMUNAL TOILET
WATERLINE LAYOUT PLAN
SCALE: 1:100 M



PROPOSED COMMUNAL TOILET
WATERLINE ISOMETRIC PLAN
SCALE: 1:100 M

PLUMBING LEGENDS

f.d.	FLOOR DRAIN
r.d.	ROOF DRAIN
lav.	LAVATORY
w.c.	WATER CLOSET
vent	FIXTURE VENT
vtc	VENT THRU CEILING
c.o.	CLEAN OUT
d.s.	DOWNSPOUT
uri.	URINAL
←	RAIN WATER DRAIN FLOW
----	BRANCH VENT
[]	SEPTIC TANK

WATER LINE LEGENDS

lav.	LAVATORY
w.c.	WATER CLOSET
HB	HOSE BIBB
HD	HAND DRYER
HS	HAND SANITIZER
uri.	URINAL
faucet	FAUCET
---	WATER LINE
---	WATER METER
---	CHECK VALVE
---	GATE VALVE
---	FROM MAIN WATER LINE



REPUBLIC OF THE PHILIPPINES
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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1209 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:	E.V.B (janz27)
CHECKED BY:	EJDJR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

LT SOL VALENTINO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

BORONGAN AIRPORT DEVELOPMENT PROJECT
CONSTRUCTION OF COMMUNAL TOILET

LOCATION:

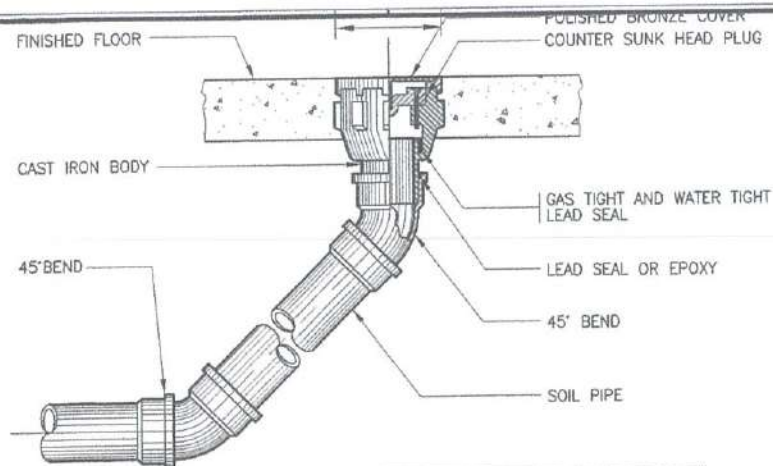
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

GROUND PLUMBING LAYOUT PLAN
ROOF PLUMBING LAYOUT PLAN
WATERLINE LAYOUT PLAN
GROUND PLUMBING ISOMETRIC PLAN
ROOF PLUMBING ISOMETRIC PLAN
WATERLINE ISOMETRIC PLAN
GENERAL NOTES
MATERIALS SPECIFICATION
PLUMBING & WATERLINE LEGENDS

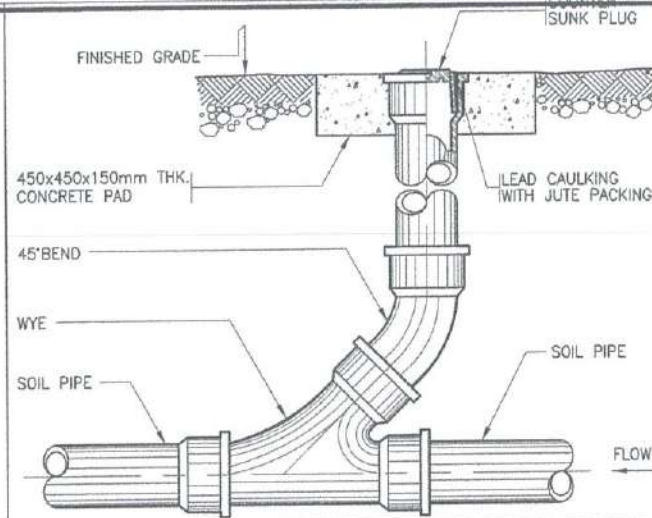
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AS SHOWN	P	01
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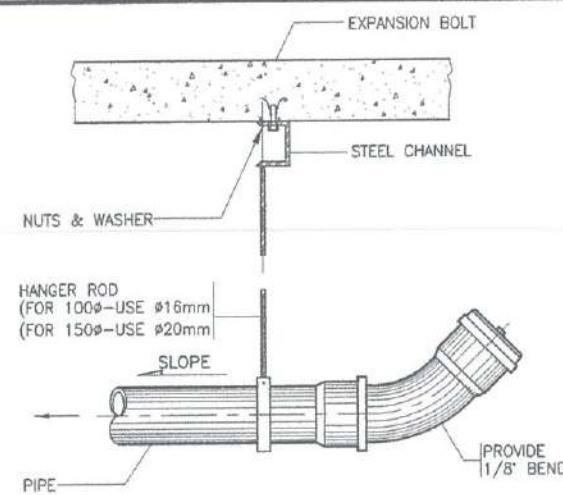


PIPE SIZE (mm)	A	REMARKS
50	73	SIMILAR TO JAMAN MODEL JCO-133-R OR APPROVED EQUAL.
75	108	
100	143	

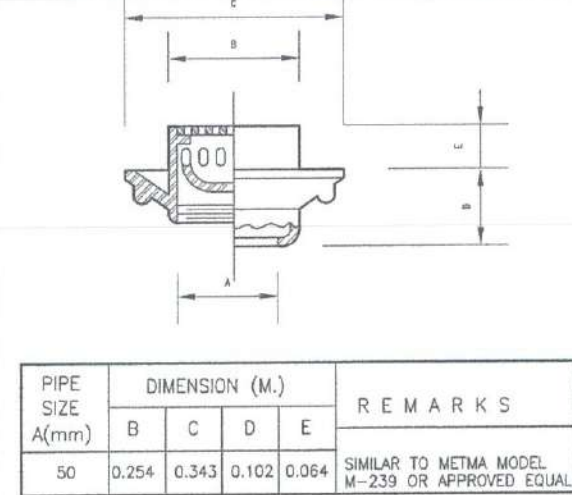
PROPOSED COMMUNAL TOILET
FLOOR CLEAN OUT
SCALE: NTS



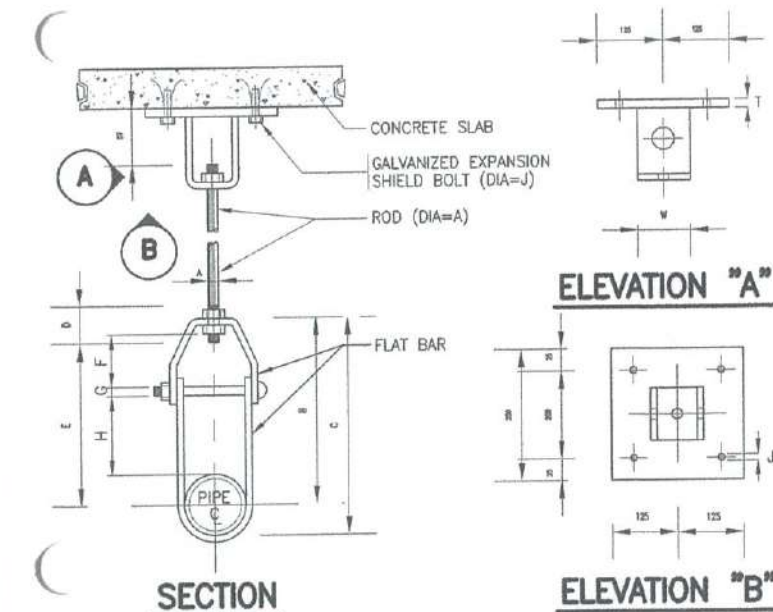
PROPOSED COMMUNAL TOILET
GROUND CLEAN OUT
SCALE: NTS



PROPOSED COMMUNAL TOILET
CEILING CLEAN OUT
SCALE: NTS



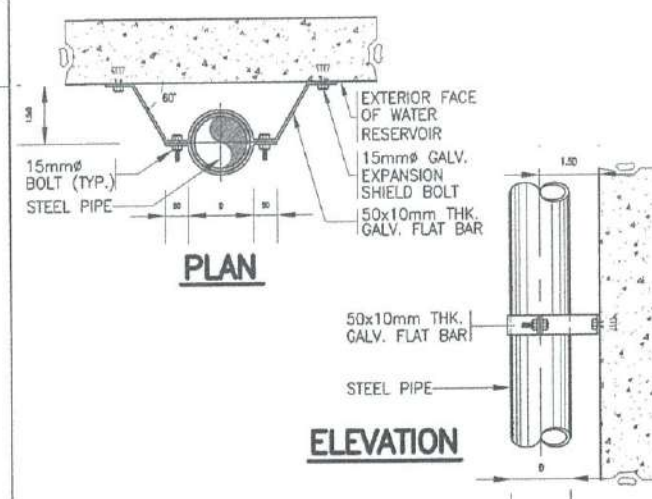
PROPOSED COMMUNAL TOILET
FLOOR DRAIN
SCALE: NTS



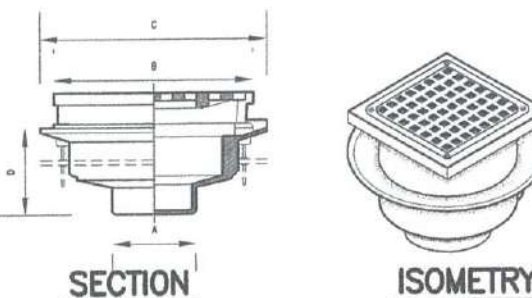
SCHEDULE OF PIPE HANGER

PIPE SIZE (mm)	FLAT BAR SIZE (mm)	DIMENSIONS IN mm										
		A	B	C	D	E	F	G	H	J	T	W
15-25	3x25	10	100	119	65	83	16	6	50	14	10	50
32-40	3x25	10	121	146	65	103	27	6	50	14	10	50
50	3x25	10	189	221	65	165	41	6	100	14	10	50
65-75	5x32	13	219	262	75	192	45	10	100	14	10	50
100	6x32	16	233	295	90	208	48	10	100	14	10	50
150	6x40	19	270	350	100	238	49	13	100	18	13	65

PROPOSED COMMUNAL TOILET
PIPE HANGER
SCALE: NTS



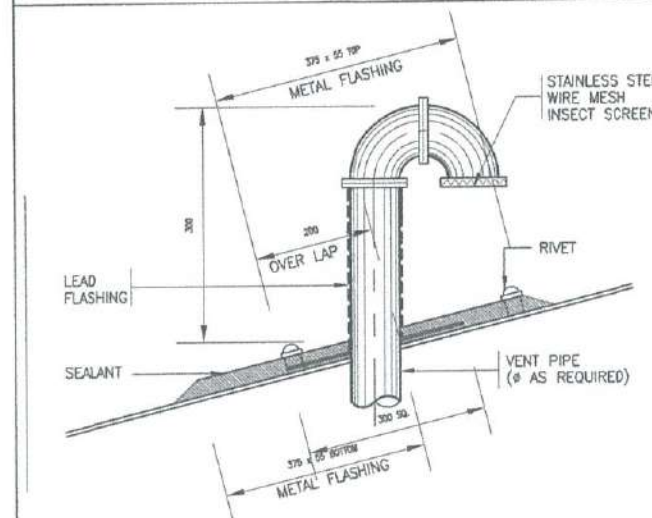
PROPOSED COMMUNAL TOILET
OFFSET PIPE CLAMP
SCALE: NTS



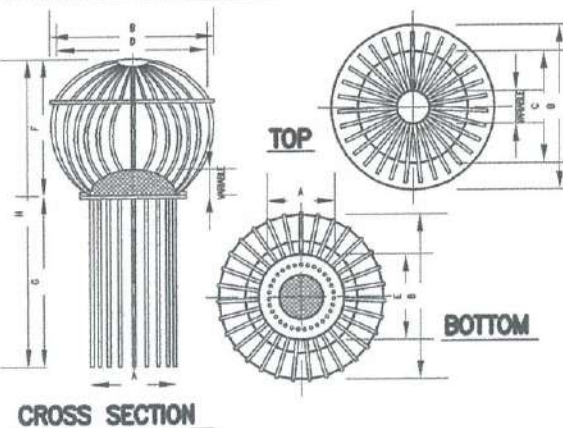
SCHEDULE OF DECK DRAIN

PIPE SIZE A(mm)	DIMENSIONS IN mm			OPEN AREA mm ²	DESCRIPTION
	B	C	D		
75	250 x 250	300	136	22504	SIMILAR TO JAMAN JDD-142

PROPOSED COMMUNAL TOILET
DECK DRAIN
SCALE: NTS

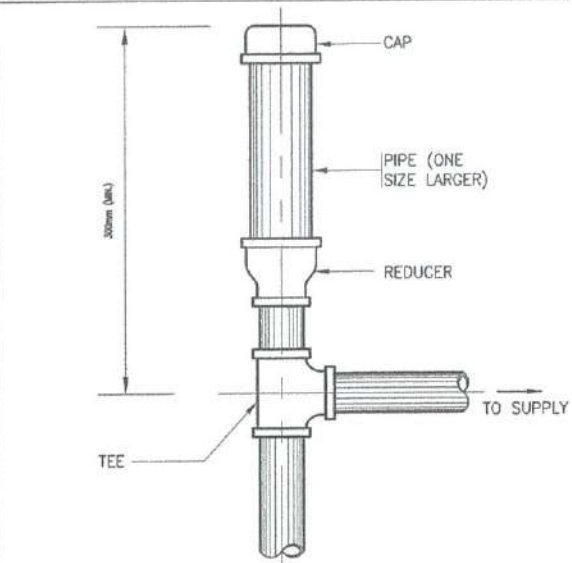


PROPOSED COMMUNAL TOILET
VENT THRU ROOF
SCALE: NTS

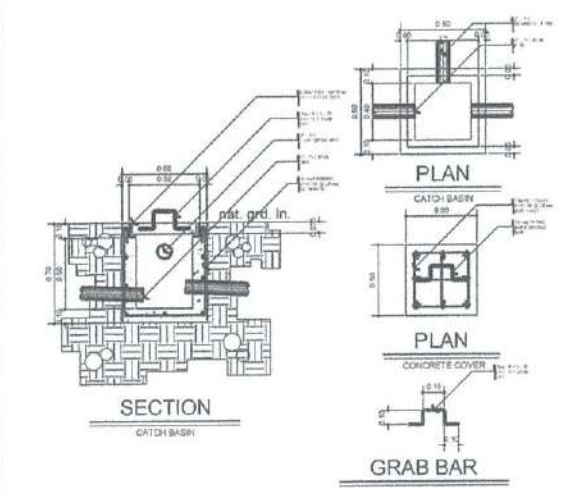


DIMENSION IN (mm)								
MODEL NO.	A	B	C	D	E	F	G	H
M-319-33A	100	125	94	113	103	100	125	228

PROPOSED COMMUNAL TOILET
ROOF DRAIN
SCALE: NTS



PROPOSED COMMUNAL TOILET
AIR CHAMBER
SCALE: NTS



PROPOSED COMMUNAL TOILET
CATCH BASIN
SCALE: NTS

PROPOSED COMMUNAL TOILET
MISCELLANEOUS STANDARD DETAILS
SCALE: NTS



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NAIA ROAD, 1300 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: E.V.B. (ang227)
CHECKED BY: E.DJR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

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

RECOMMENDED APPROVAL:
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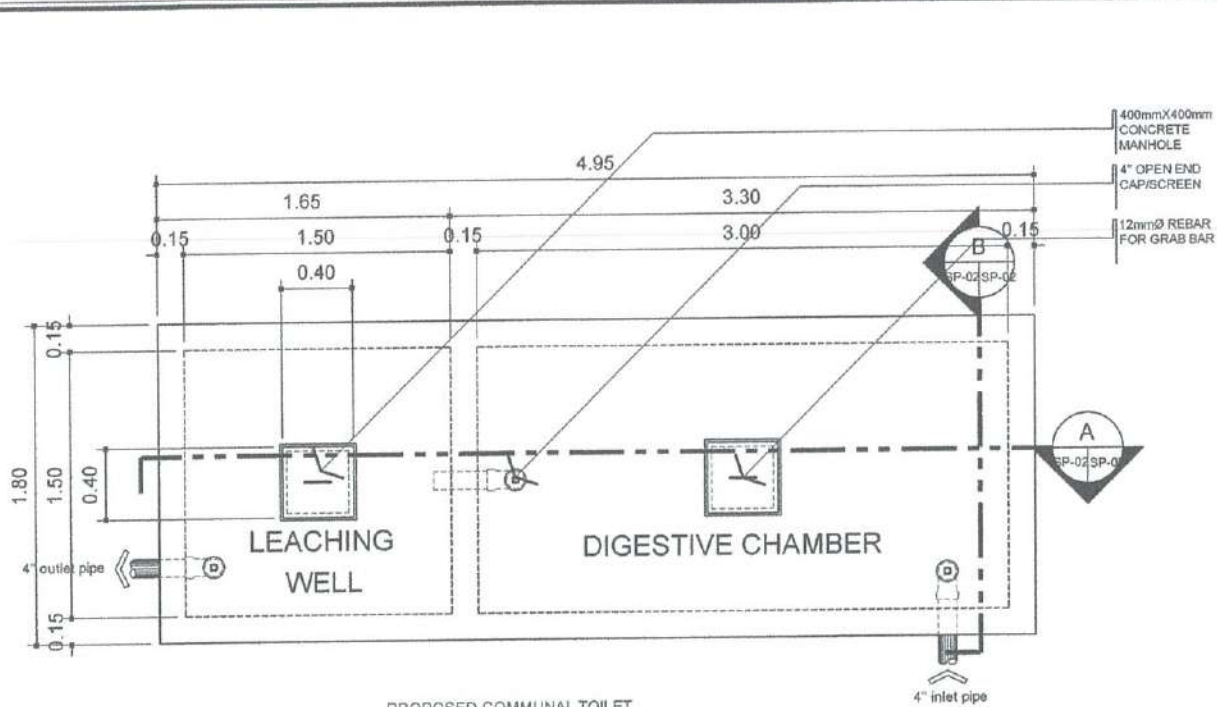
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT DEVELOPMENT PROJECT
CONSTRUCTION OF COMMUNAL TOILET

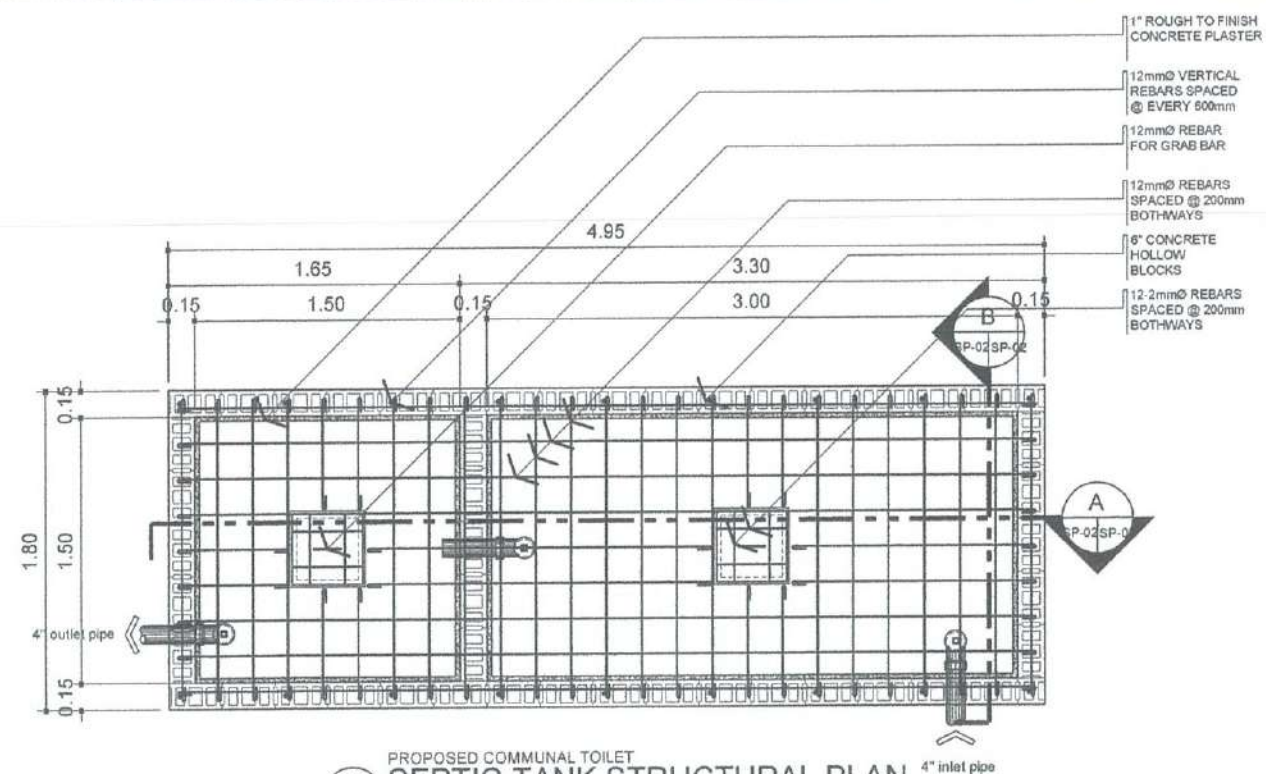
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:
MISCELLANEOUS STANDARD DETAILS
FLOOR, GROUND & CEILING CLEAN OUT
FLOOR, DECK & ROOF DRAIN
OFFSET PIPE CLAMP
AIR CHAMBER
PIPE HANGER
VENT THRU ROOF
CATCH BASIN

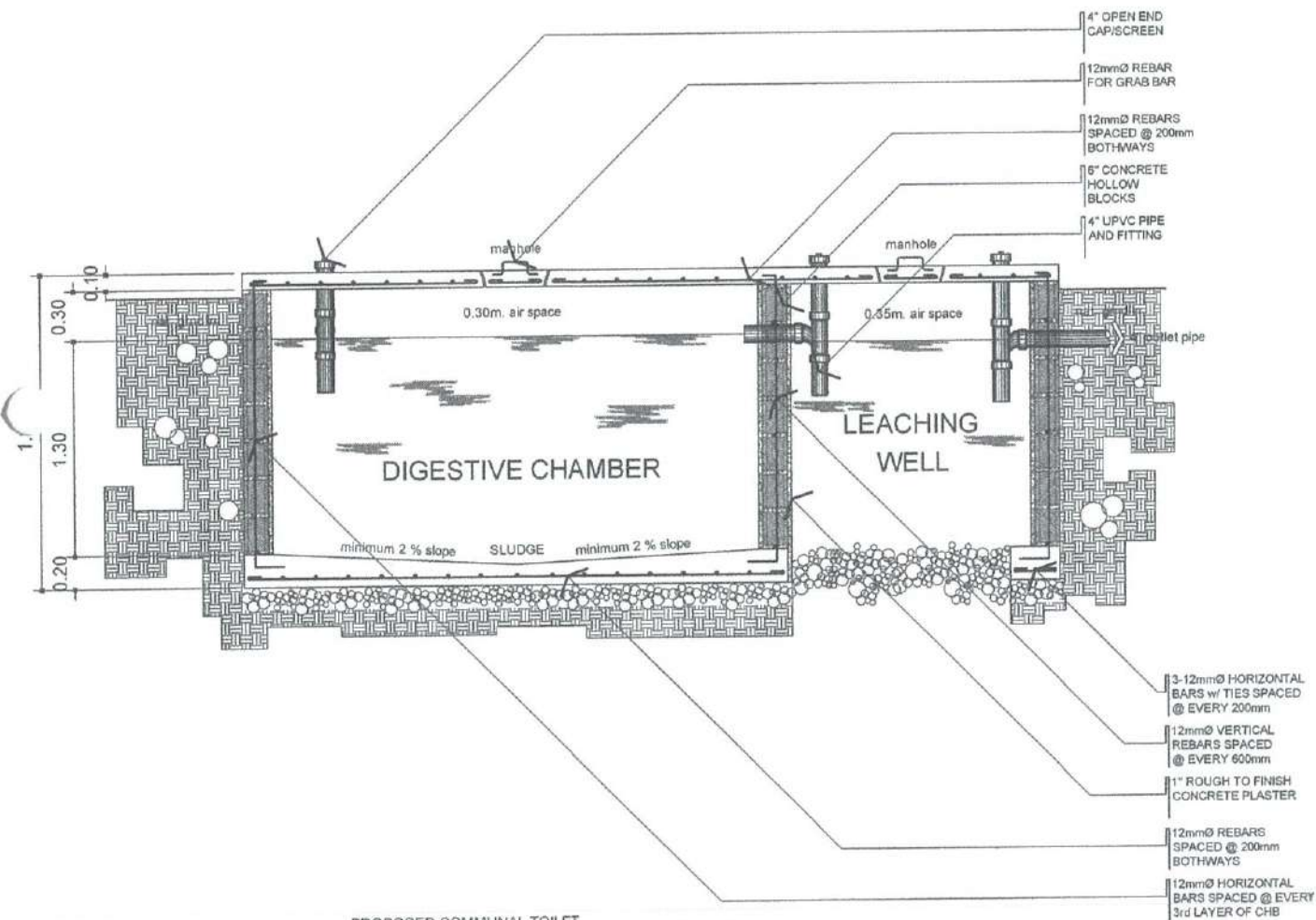
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SHEET NO. P 02



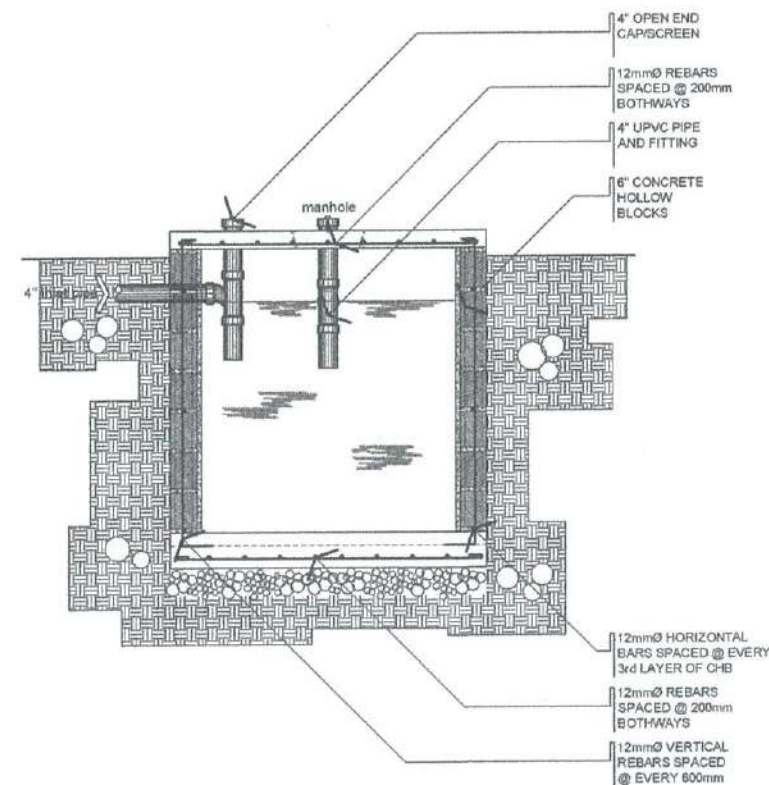
PROPOSED COMMUNAL TOILET
SEPTIC TANK PLAN
SCALE: 1:25 M



PROPOSED COMMUNAL TOILET
SEPTIC TANK STRUCTURAL PLAN
SCALE: 1:25 M



PROPOSED COMMUNAL TOILET
SEPTIC TANK SECTION THRU A
SCALE: 1:25 M



PROPOSED COMMUNAL TOILET
SEPTIC TANK SECTION THRU B
SCALE: 1:25 M

PROPOSED COMMUNAL TOILET
SEPTIC TANK DETAILS
SCALE: 1:25 M



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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY: IDDD	
DRAWN BY: E.V.B. (jengz27)	
CHECKED BY: EJDJR	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF COMMUNAL TOILET

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:
SEPTIC TANK DETAILS
SEPTIC TANK PLAN
SEPTIC TANK STRUCTURAL PLAN
SEPTIC TANK SECTION THRU AA
SEPTIC TANK SECTION THRU BB

DRAWING SCALE:	SHEET NO.
AS SHOWN	P 03



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AND MANAGEMENT SERVICE

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AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (janz27)
CHECKED BY:	EJDR

REVIEWED BY:

[Signature]
RAUL R. CRUCENA
Division Chief III IDDD - ADMS

SUBMITTED BY:

[Signature]
ARNEL F. BORLADO
Department Manager III AED-ADMS

RECOMMENDED APPROVAL:

[Signature]
LT COL VALENTINO A. DIONELA, PAF (Ret.)
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APPROVED:

[Signature]
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

NO.	DESCRIPTION

PROJECT:

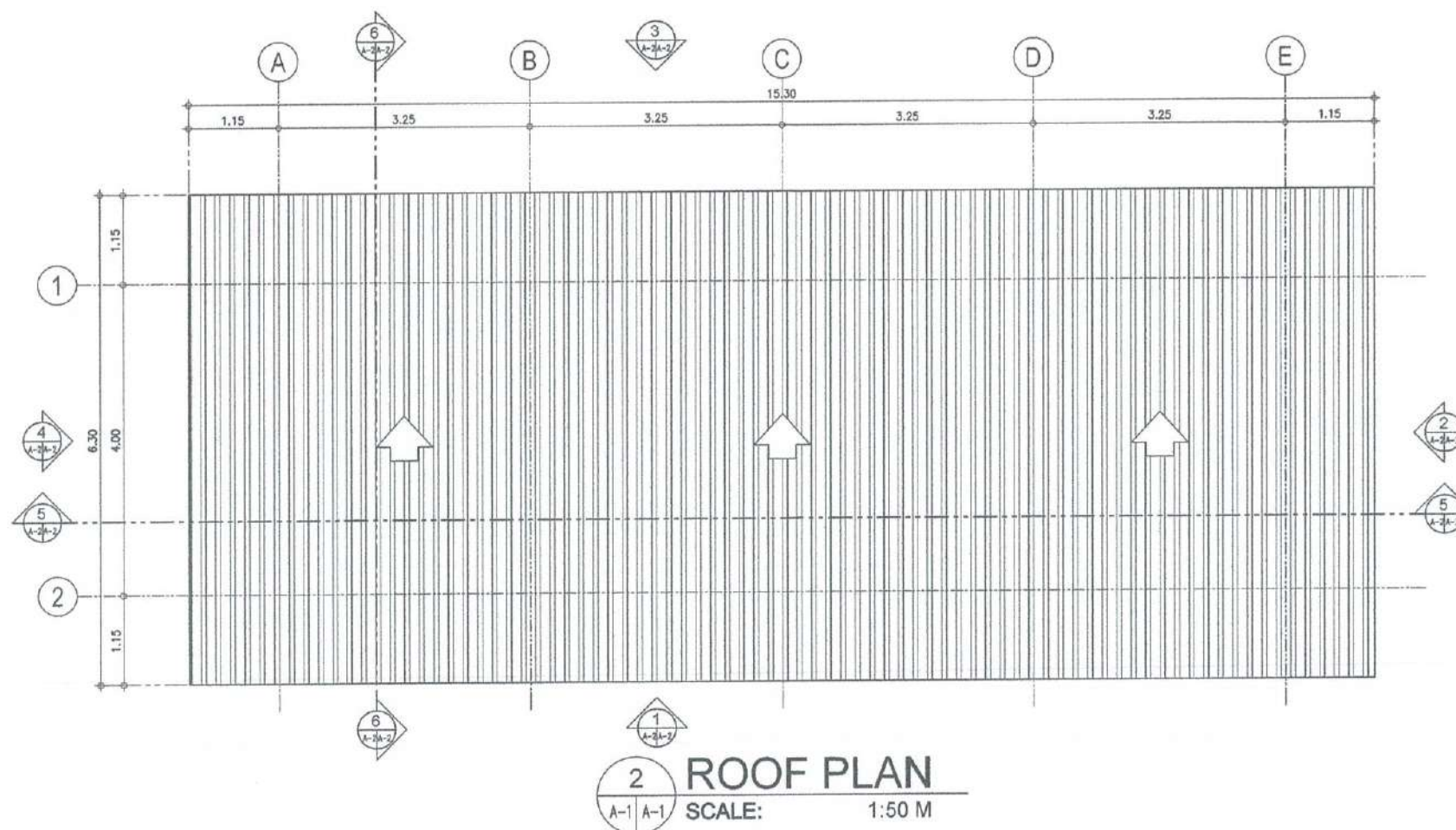
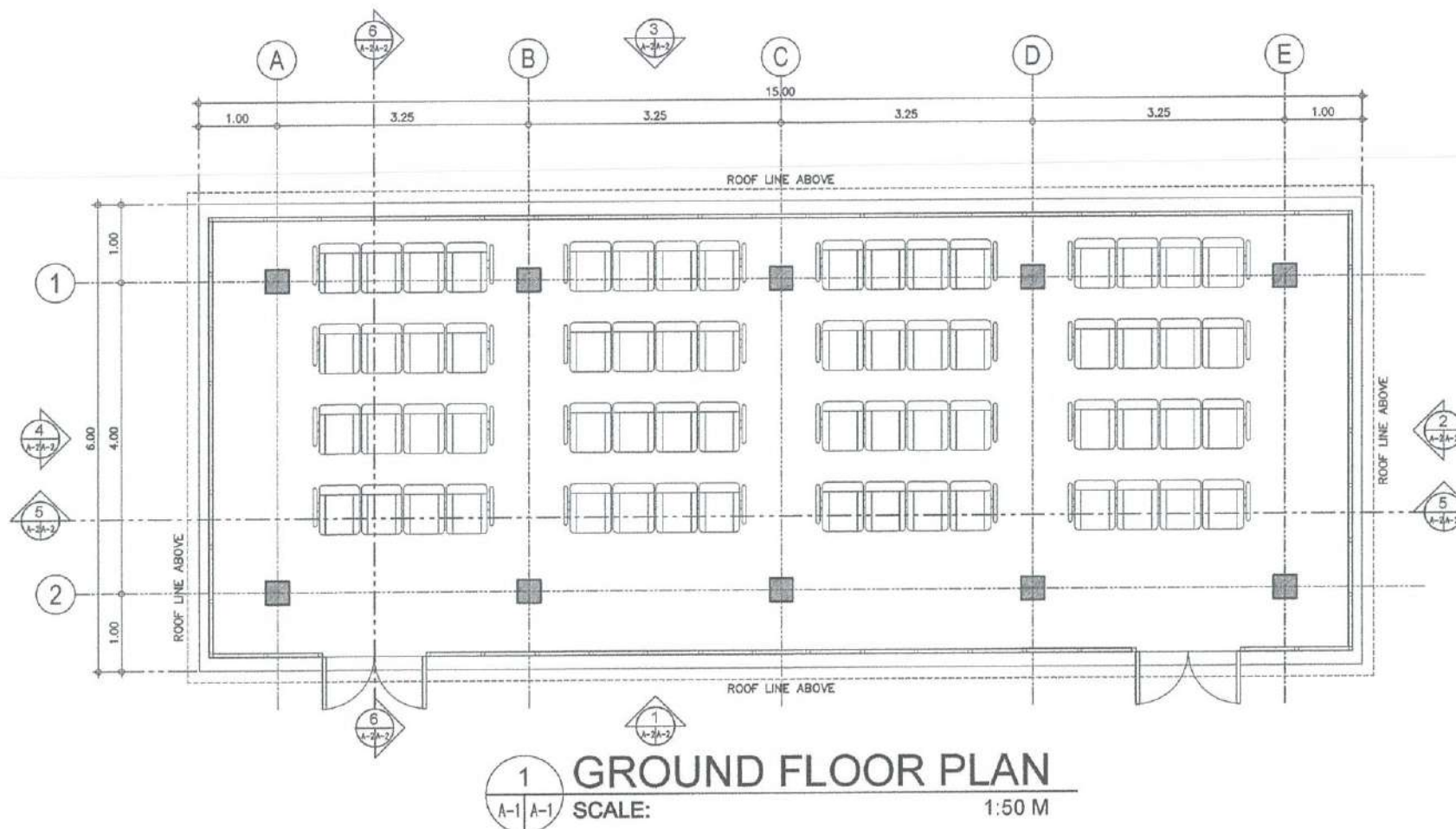
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DEVELOPMENT PROJECT
CONSTRUCTION OF WAITING AREA

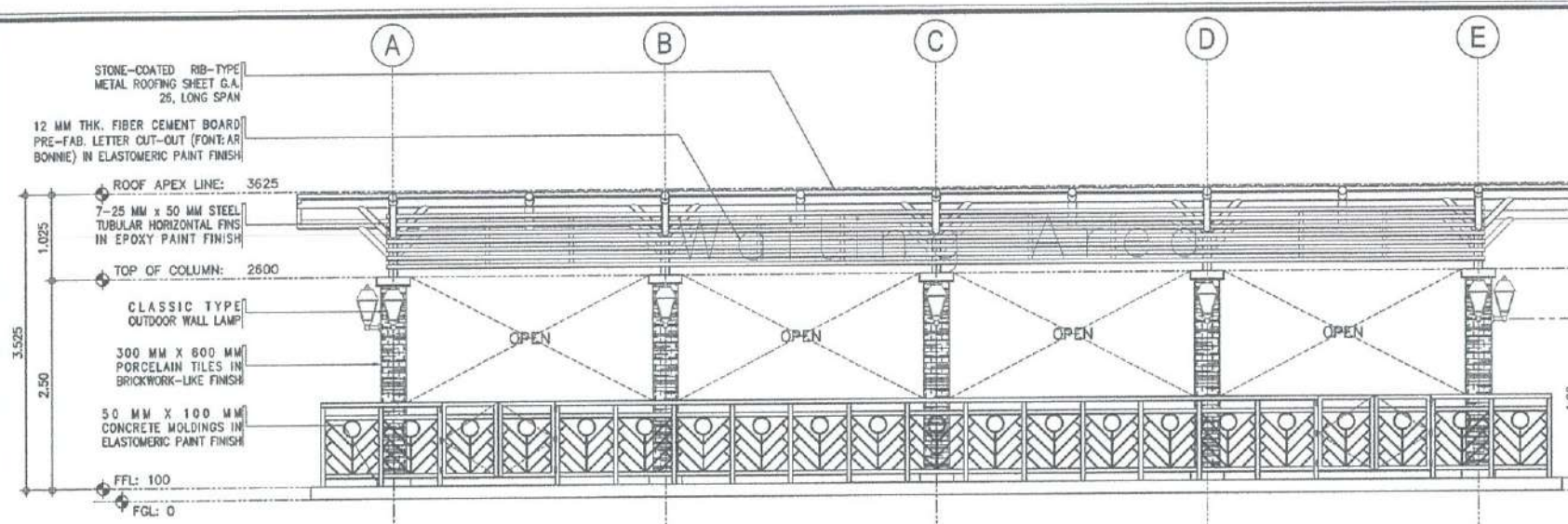
LOCATION:

BORONGAN AIRPORT
BORONGAN

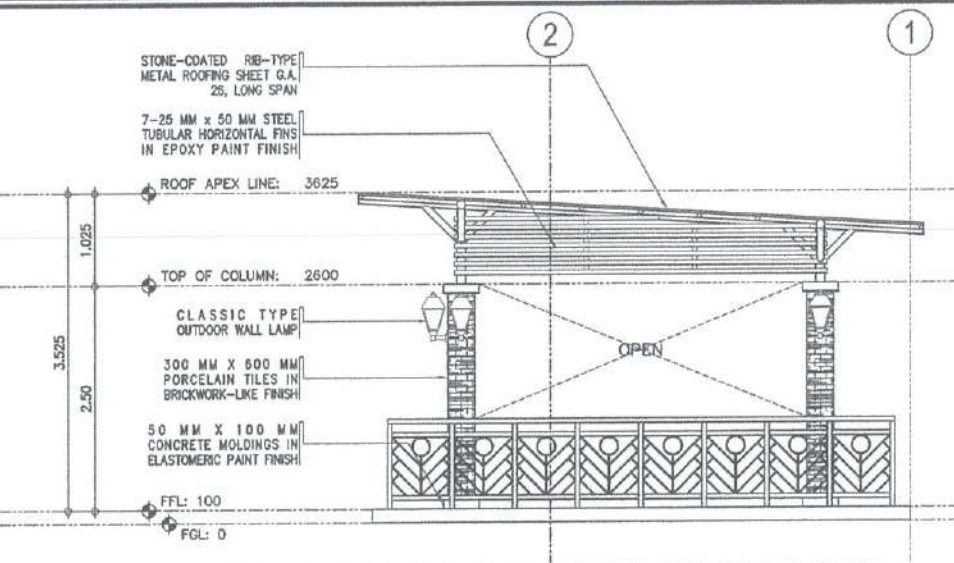
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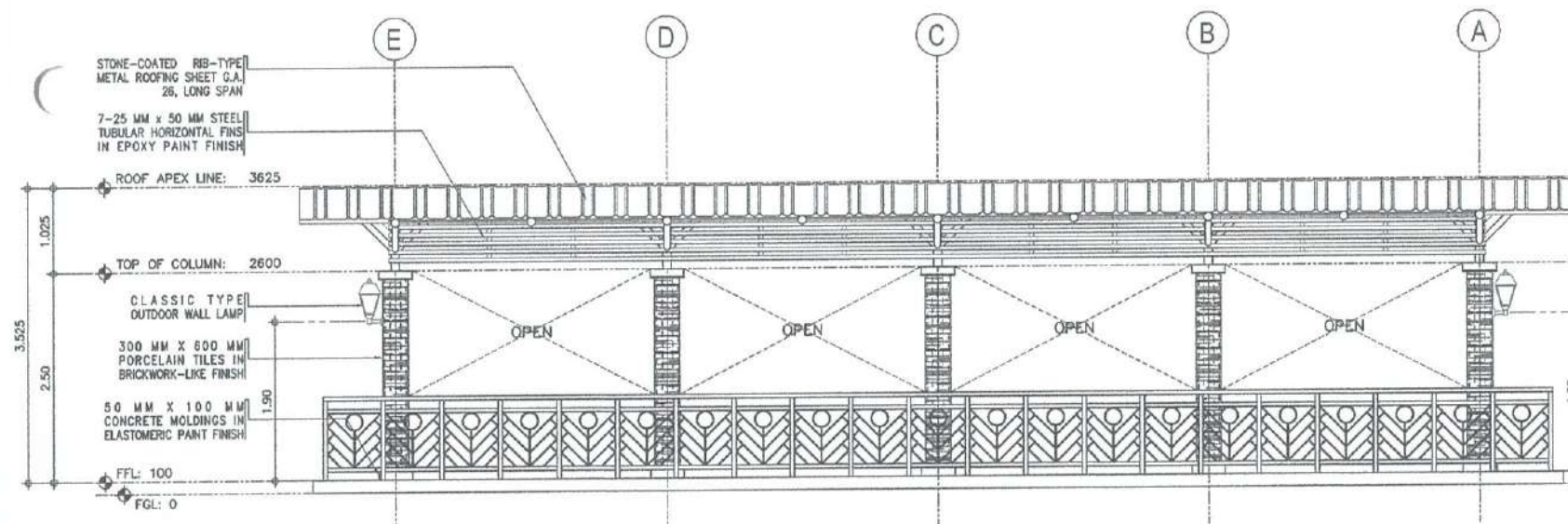




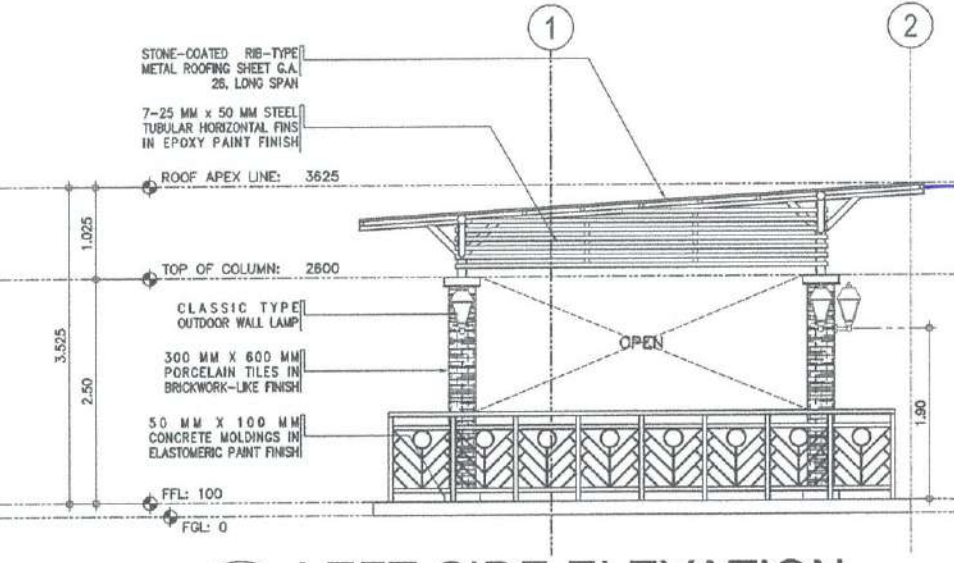
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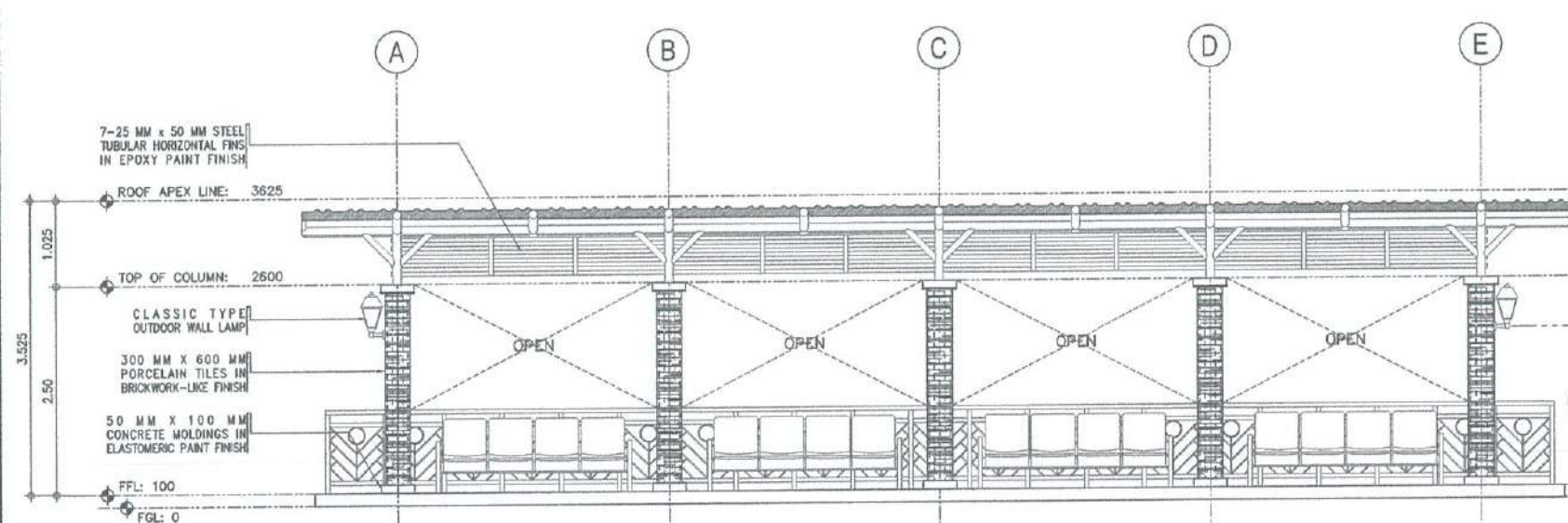
2 RIGHT-SIDE ELEVATION
SCALE: 1 : 50 M



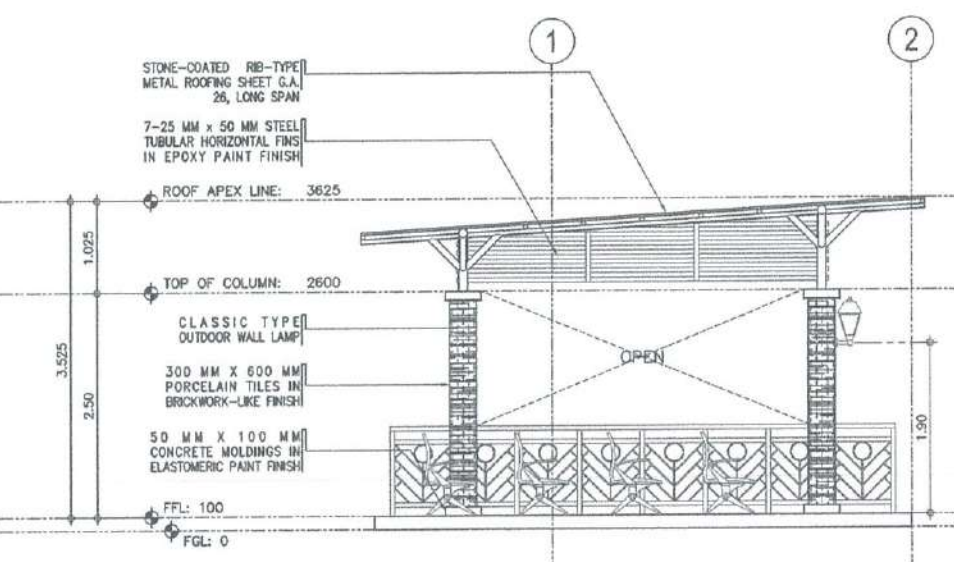
3 REAR ELEVATION
SCALE: 1 : 50 M



4 LEFT-SIDE ELEVATION
SCALE: 1 : 50 M



5 CROSS SECTION
SCALE: 1 : 50 M



6 LONGITUDINAL SECTION
SCALE: 1 : 50 M

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY: IDDD	
DRAWN BY: E.V.B (janz27)	
CHECKED BY: E.J.D.R	
REVIEWED BY:	
 RAUL R. CRUCENA Division Chief III, IDDD - ADMS	
 ARNEL F. BORLADO Department Manager III, AED-ADMS	
 LT COL. VALENTINO A. DIONELA, PAF (Ret) Assistant Director General II, ADMS	
 CAPTAIN MANUEL ANTONIO L. TAMAYO Director General	

NOTES/REVISIONS:

PROJECT:	BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF WAITING AREA
LOCATION:	BORONGAN AIRPORT BORONGAN
SHEET CONTENTS:	

DRAWING SCALE:	SHEET NO:
AS SHOWN	A 02



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INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (janz27)
CHECKED BY:	EJOUR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, DDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager IIIAED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

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Director General

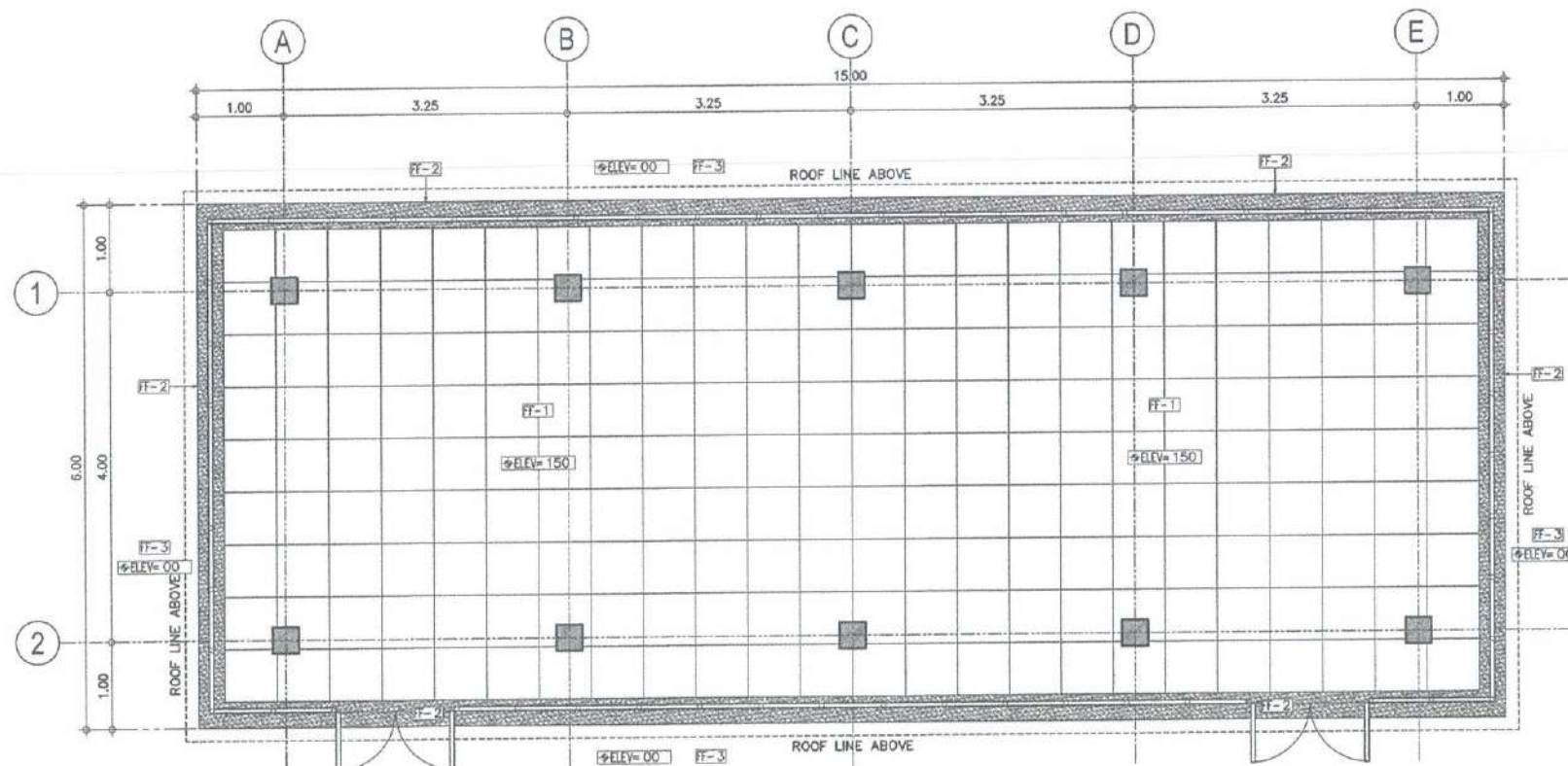
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF WAITING AREA

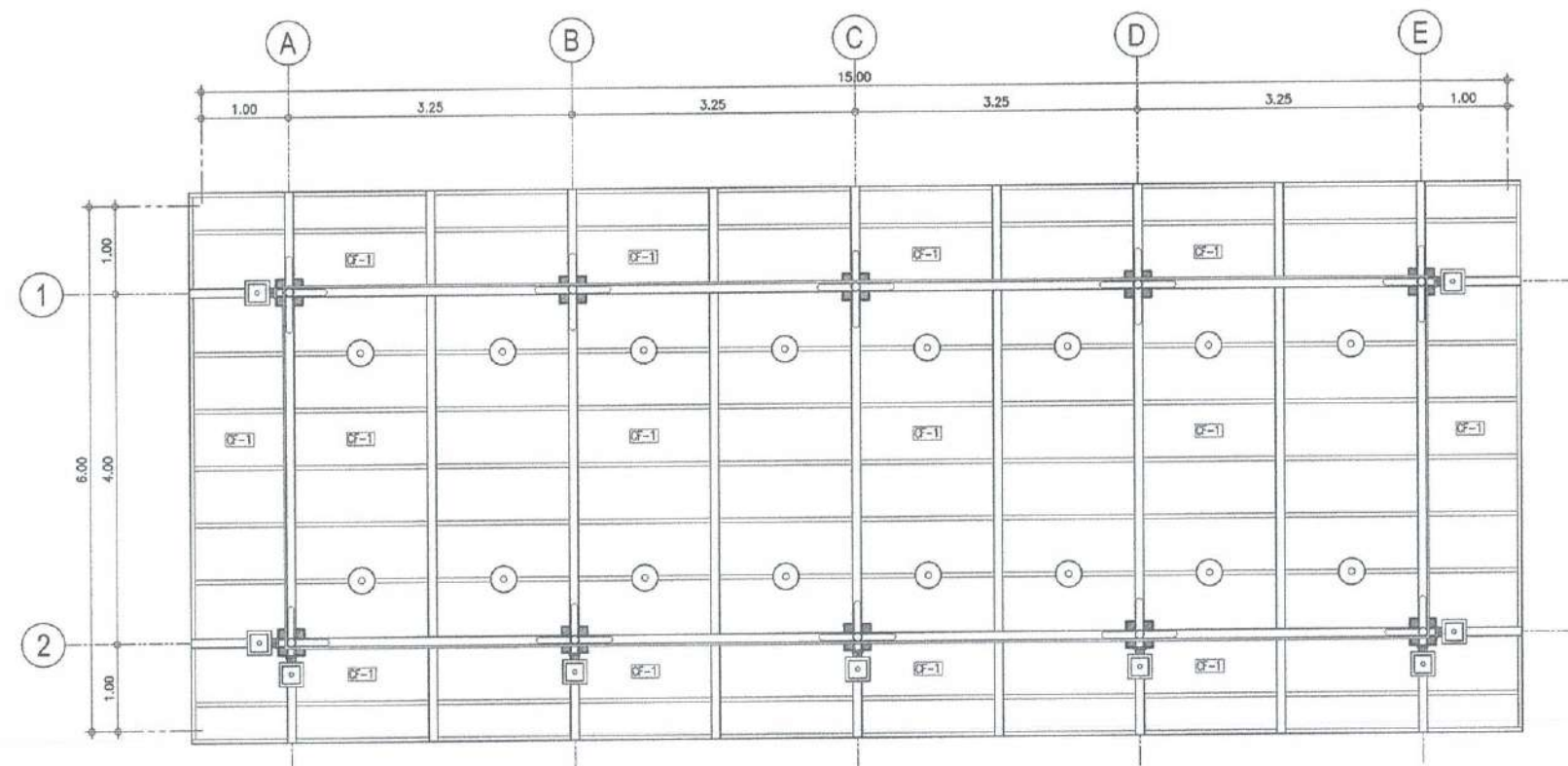
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	A 03



1 DETAILED PLAN
A-3 A-3 SCALE: 1 : 50 M



2 REFLECTED CEILING PLAN
A-3 A-3 SCALE: 1 : 50 M

LEGEND	
	300 MM Ø SUSPENDED LIGHT ON POLYCARBONATE HALF DOME REFLECTOR WITH PARTIAL FROSTED GLASS COVER
	CLASSIC TYPE OUTDOOR WALL LAMP
FLOOR FINISHES	
FF-1	600 MM X 600 MM HOMOGENEOUS PORCELAIN OUTDOOR FLOOR TILES IN RUSTIC FINISH
FF-2	PEBBLE WASHOUT FINISH
FF-3	EXISTING CONCRETE PAVEMENT
CEILING FINISHES	
CF-1	DOUBLE SIDED P.E. ROOF INSULATION ON HEXAGONAL WIRE MESH



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DRAWN BY:	E.V.B (janz27)
CHECKED BY:	EJDJR

REVIEWED BY:

RAUL R. GRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALERIANO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMS

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Director General

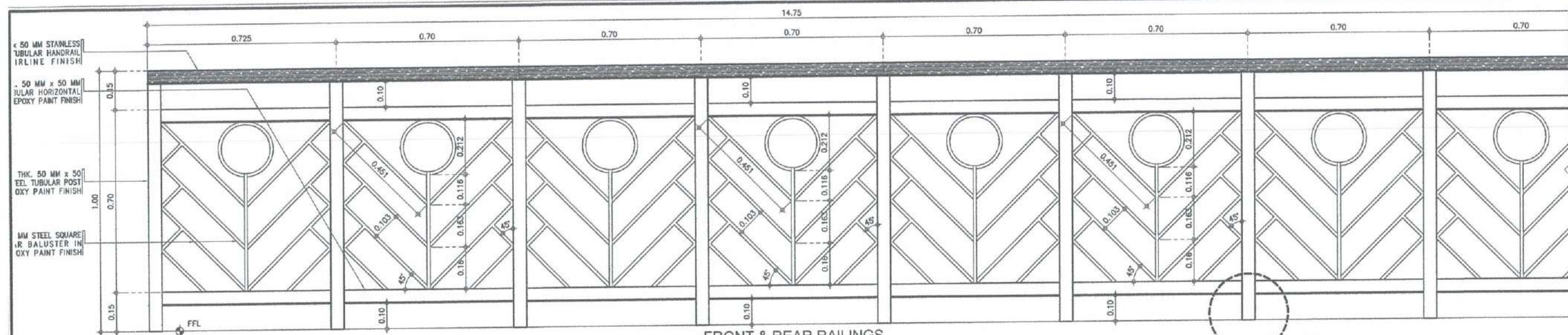
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF WAITING AREA

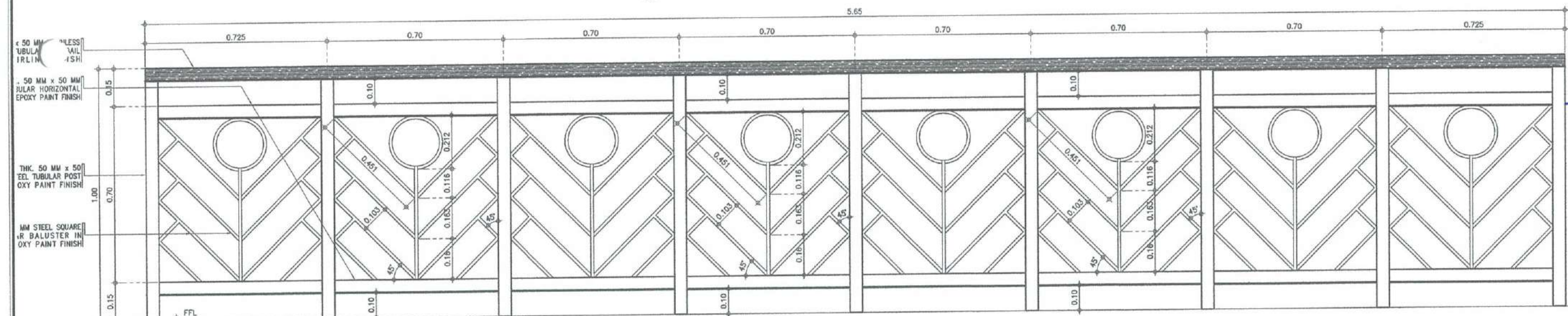
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

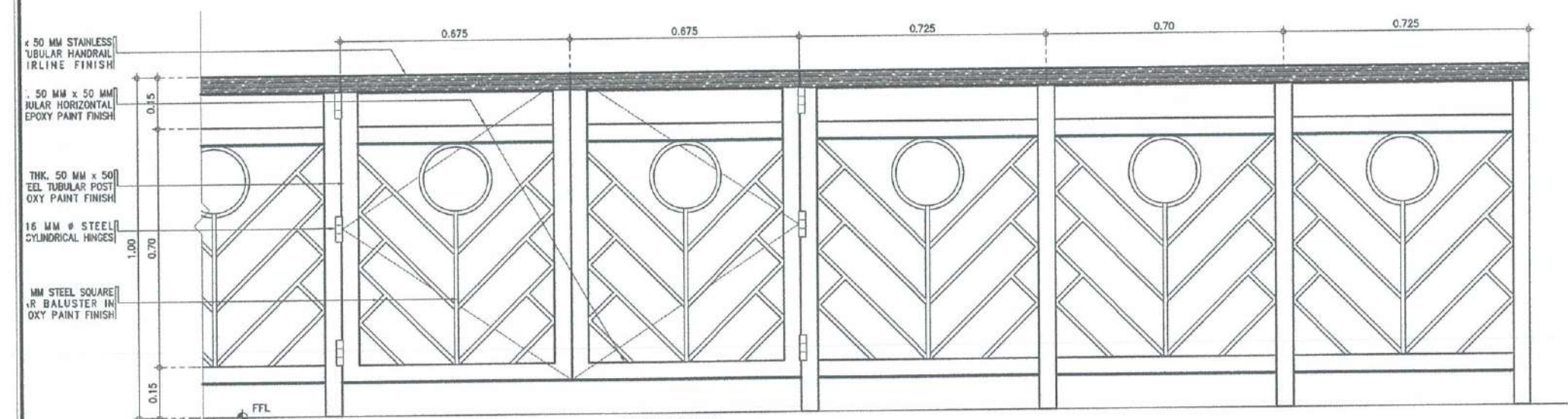
DRAWING SCALE:	SHEET NO:
AS SHOWN	A 04



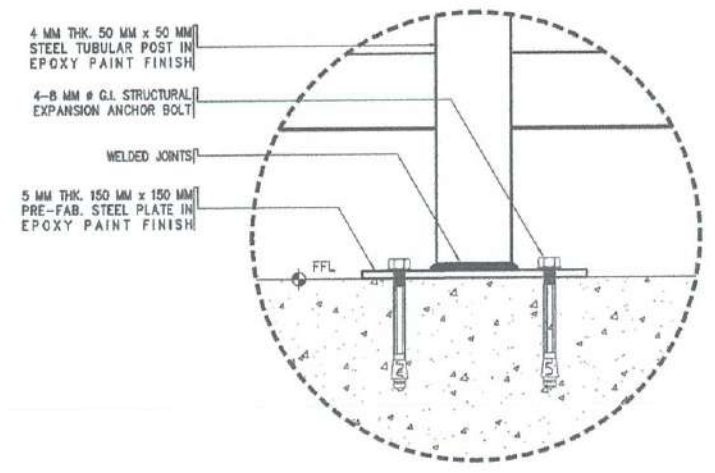
1
A-2 A-4
**FRONT & REAR RAILINGS
DETAILED ELEVATION**
SCALE: 1 : 10 M



2
A-2 A-4
**SIDE RAILINGS
DETAILED ELEVATION**
SCALE: 1 : 10 M



3
A-2 A-4
**MAN GATE
DETAILED ELEVATION**
SCALE: 1 : 10 M



4
A-4 A-4
**POST STEEL PLATE
SPOT DETAIL**
SCALE: 1 : 3 M

CONSTRUCTION NOTES:

1.0 GENERAL NOTES:

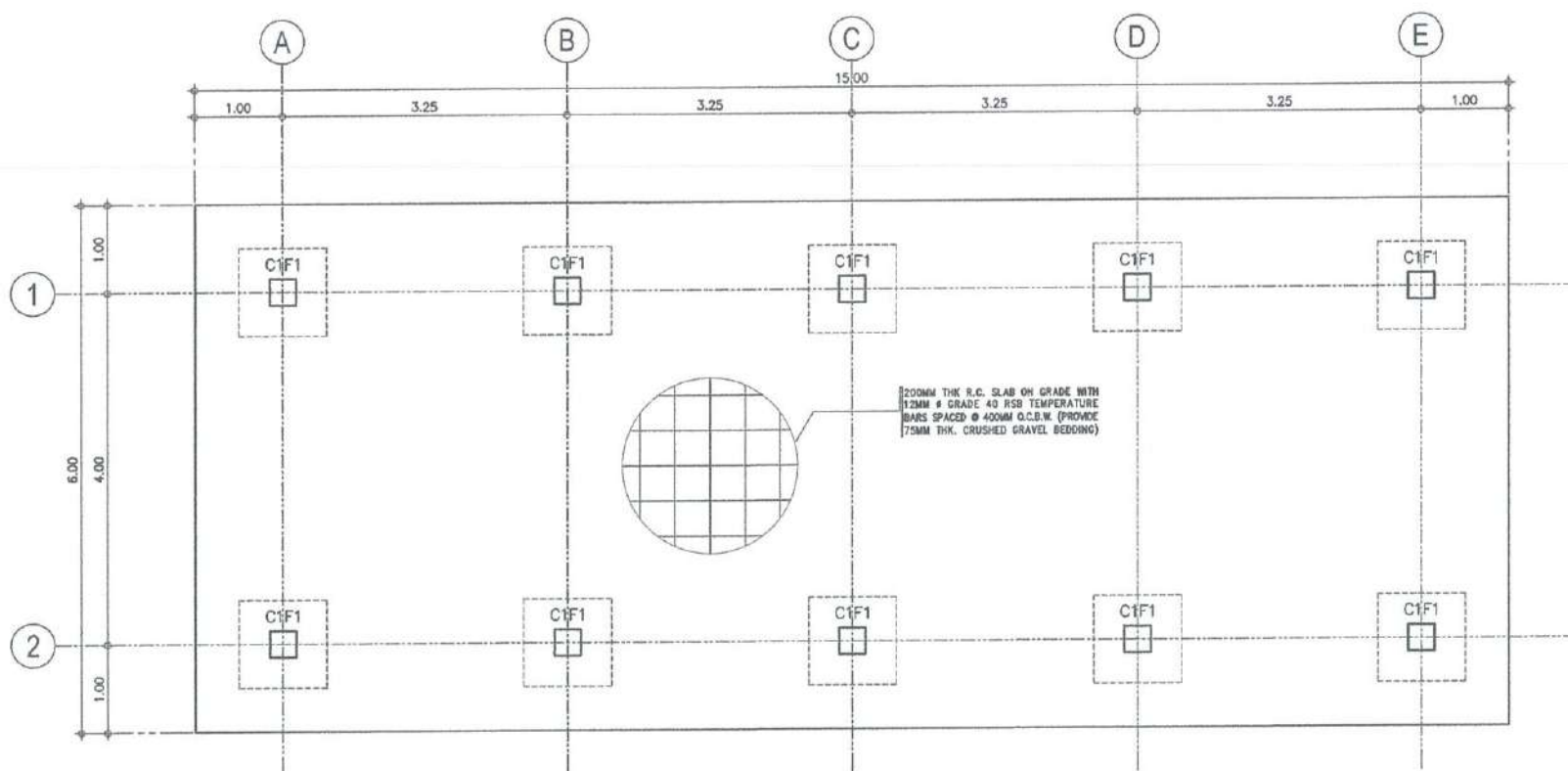
- 1.1 The Contractor shall verify all dimensions and conditions at the site, and shall notify the Engineer of discrepancies between actual conditions and information shown on the drawings before proceeding with the work. This shall include the location and dimensions of grooves, reglets, sleeves, curbs, openings, embedded or attach items, etc. Refer to Architectural, Mechanical, Electrical and Plumbing Drawings.
- 1.2 All dimensions shall take precedence over scale shown on plans, sections or details. Notes and details on drawings shall take precedence over general notes and typical details.
- 1.3 The Contract, Structural Drawings and Specifications represent the finished structures. They do not indicate the method of construction unless so stated. The Contractor shall provide all necessary measures to protect the structures, adjacent properties, workmen and other persons during all phases of construction.
- 1.4 The Contractor shall immediately notify the Owner and/ or the Project In-charge of any condition which in his opinion might endanger the stability of the structures or cause distress in the structures.
- 1.5 Construction materials shall not be stored on poured floors. It is the General Contractor responsibility to ensure that the Sub-Contractor's are informed and do not violate this important requirements.
- 1.6 The Contractor shall provide temporary erection bracing and shoring for all the structural members as required for structural stability during all phases of construction.
- 1.7 The Contractor shall take all steps necessary to ensure the proper alignment of the structures after the installation of all structural and finish materials.

2.0 MATERIAL SPECIFICATION:

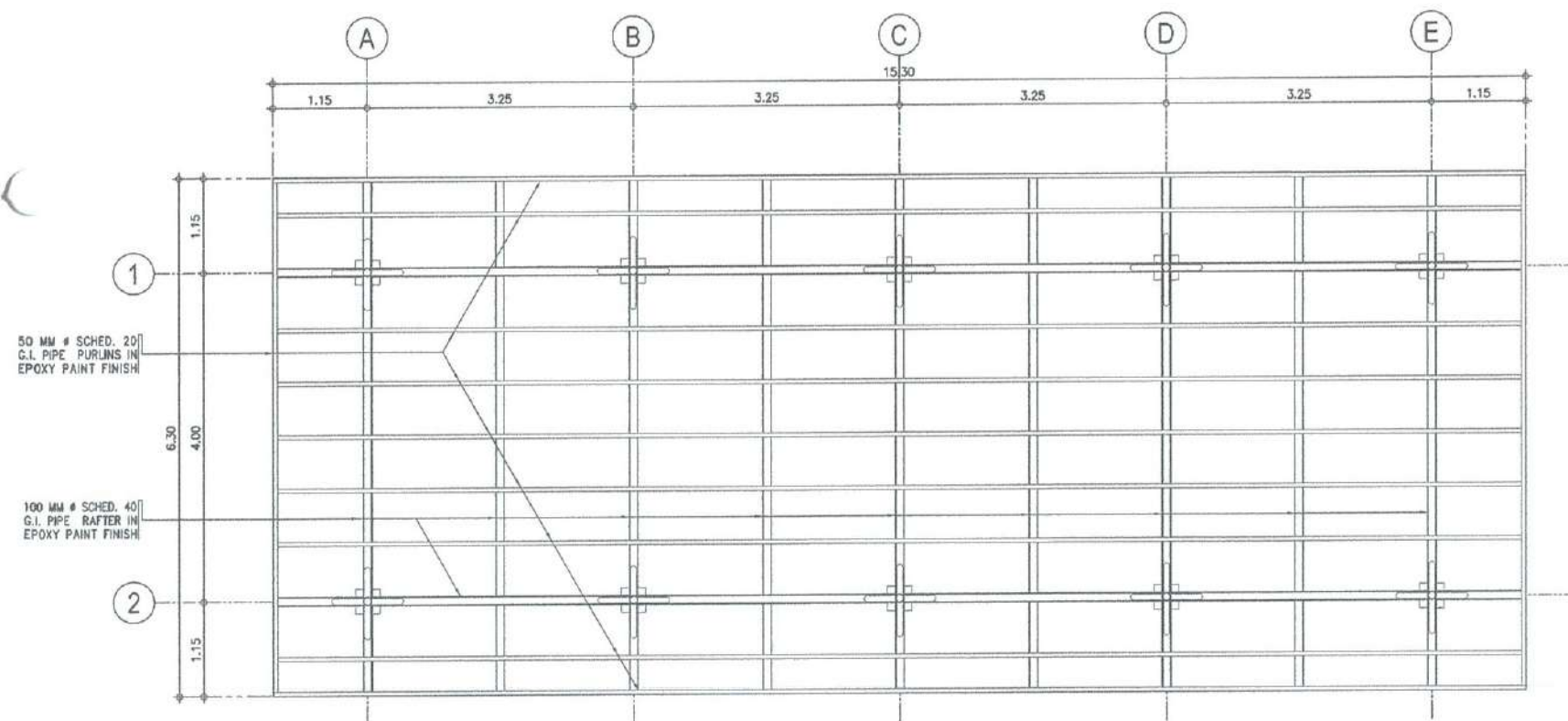
- 2.1 Mix Design shall conform to ACI 211.1 & ACI 301. The minimum compressive strength shall be:
 $F_c' = 24.00 \text{ Mpa (3,500 Psi)}$ Foundations, Columns Beams and Suspended Slabs.
 $F_c' = 24.00 \text{ Mpa (3,500 Psi)}$ Slab on fill, Graded Slabs.
- 2.2 Cement for the concrete shall conform to the requirements of the "Specifications for the Portland Cement" (ASTM C150, Latest Edition).
- Fine Aggregates: Shall consist of natural porac sand. Fine aggregates shall consist of hard, tough, durable, uncoated particles. The stipulated percentage of fines in the sand shall be obtained either by the processing of natural sand or by the production of a suitably graded manufactured sand.
- Coarse Aggregates: Shall consist of gravel, crushed gravel or rock, or a combination of gravel and crushed gravel or rock, as per approved by the Structural Engineer. The coarse aggregate, as delivered to the site shall have a uniform and suitable moisture content.
- Footings ----- 1" or 3/4" (25mm or 19mm)
R.C. Beams, Columns, Slabs, Wall Footings, Lintel Beams ----- 3/4" (19mm)
- 2.3 Water used in mixing concrete shall be clean and free from injurious amounts of oils, acids, salts, alkalis, organic materials or other substances deleterious to concrete or steel.
- 2.4 Admixtures to be used in concrete shall be subjected to prior approval of the Structural Engineer.
- 2.5 The concrete slab on fill shall be laid on a prepared foundation consisting of a sub grade and granular fill with thickness of overlying slab except as indicated otherwise. sub grade shall be rolled, rammed and tamped to a thoroughly compacted foundation.
- 2.6 All concrete shall deposited, vibrated and cured in accordance with ACI Standard 318-95.
- 2.7 Concrete cover over reinforcing bars shall be as follows:
- Footings and bottom of Footing Tie Beams ----- 75mm (cast against earth)
Beams and Columns ----- 40mm (to stirrups and ties)
Walls and Sides of Footing tie Beams ----- 50mm (cast against forms)
Equipment Foundation ----- 70mm

- 2.8 Before concrete is poured, checked with all trades to ensure proper placement of all openings, sleeves, curbs, conduits, etc. relative to the work.
- 2.9 Unless otherwise specified on plans, all reinforcing bars shall be deformed conforming to ASTM A706 with a minimum yield strength of reinforcement shall be enumerated below:
- Footings/ footing Tie Beams ----- $F_y = 60,000 \text{ Psi}$
Columns/ Beams ----- $F_y = 60,000 \text{ Psi}$
Slabs (On grade and suspended) ----- $F_y = 40,000 \text{ Psi}$
- 2.10 All reinforcing bars shall be clean of rust, grease or other materials which tend to impair bond.
- 2.11 Unless otherwise noted in the plans or specifications, Camber all R.C. Beams at least 6mm for every 4.5m of span except cantilevers which shall 18mm for every 3m of span. If there are two (2) or more layers of reinforcing bars, use 25mm diameter separators spaced at 900mm o.c., Top bars splices shall be located at midspan and both bar splices at column supports.
- 2.12 All reinforcing bars shall be accurately and securely placed before pouring concrete or applying mortar or grout.
- 2.13 Unless indicated otherwise, all beams terminating at the column shall have top and bottom bars extending to the far face of the column terminating in a standard 90 degrees hook length of anchorage not less than 600mm.
- 2.14 Lapped splices shall be staggered where possible.
- 2.15 Unless indicated otherwise, splicing of reinforcement shall be in accordance with ACI 318-95, Except that the minimum lap splice shall be 40 bar diameter but less than 600mm.
- 2.16 Vertical and Horizontal reinforcements for CHB shall be 10mm \emptyset at 600mm for all wall thickness. Lap splices shall be 300mm long (minimum).
- 2.17 Where CHB walls adjoin columns and beams, provide dowels on r.c. columns and beams prior to pouring to match CHB wall reinforcement. The dowels shall be 12mm bars at 400mm o.c., unless otherwise shown on the drawings.
- 2.18 Where columns and beams have been poured without the CHB wall dowels, provide 16mm \emptyset expansion bolts at 400mm o.c. These anchors shall be drilled and hammered in place. No chipping off of concrete columns and beams is allowed unless otherwise permitted by the Structural Engineer.
- 2.19 Welding electrodes and rods, conformed to AWS D1.1.
Lap welded splice when used, shall develop a resistance equal to at least 125% of the tensile capacity of the bar being spliced.
Butt welded splice when used, shall be considered 75% efficient. The remaining 50% capacity to develop 125% of the tensile capacity of the bar shall be provided for by an additional welded lap splice connection on the same joint.
- Details of all welded splices shall be submitted by the contractor for approval by the Structural Engineer. Only certified welders shall be allowed to perform welding operations. These welders shall subject to the approval of the Project Manager.
- 2.20 Shop paint structural steel, except as modified herein. Do not Paint steel surfaces embedded in concrete, galvanized surfaces, or surfaces within 1/2" of the toe of the welds prior to welding. Prior to assembly, paint surfaces which will be concealed or inaccessible after assembly. Do not paint in foggy or rainy weather; when the ambient temperature is below 45 deg F or over 95 deg F; or when paint may be exposed to temperatures below 40 deg F within 48 hours after application, unless approved otherwise.
- SSPC SP 6, Except as modified herein. SSPC SP 3 or SP 6 for steel surfaces exposed in spaces above ceilings, attic spaces, crawl spaces, furred spaces and chases. In addition, maintain steel surfaces free from rust, dirt, oil, grease and other contaminants through final assembly.
- Immediately after cleaning, provide the metal surfaces with one coat of MIL SPEC DOD - P - 15328 pretreatment to a dry film thickness of 0.3 to 0.5 MIL FED SPEC TT - C - 490 pretreatment may be applied to SSPC SP 6 cleaned surfaces in accordance with FED SPEC TT - C - 490.
- Immediately after the pretreatment coating has dried, apply primer to a minimum dry film thickness of 2.0 MIL. Repair damaged primed surfaces with an additional coat primer.

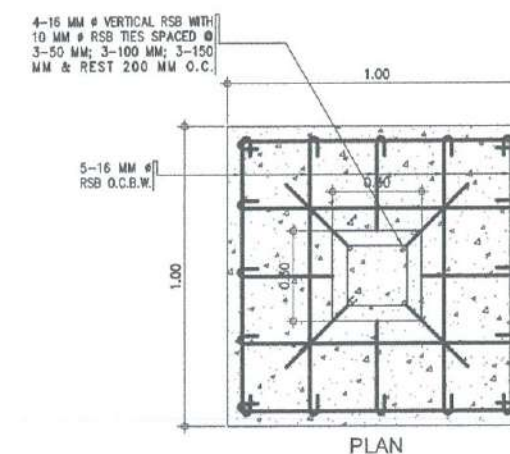
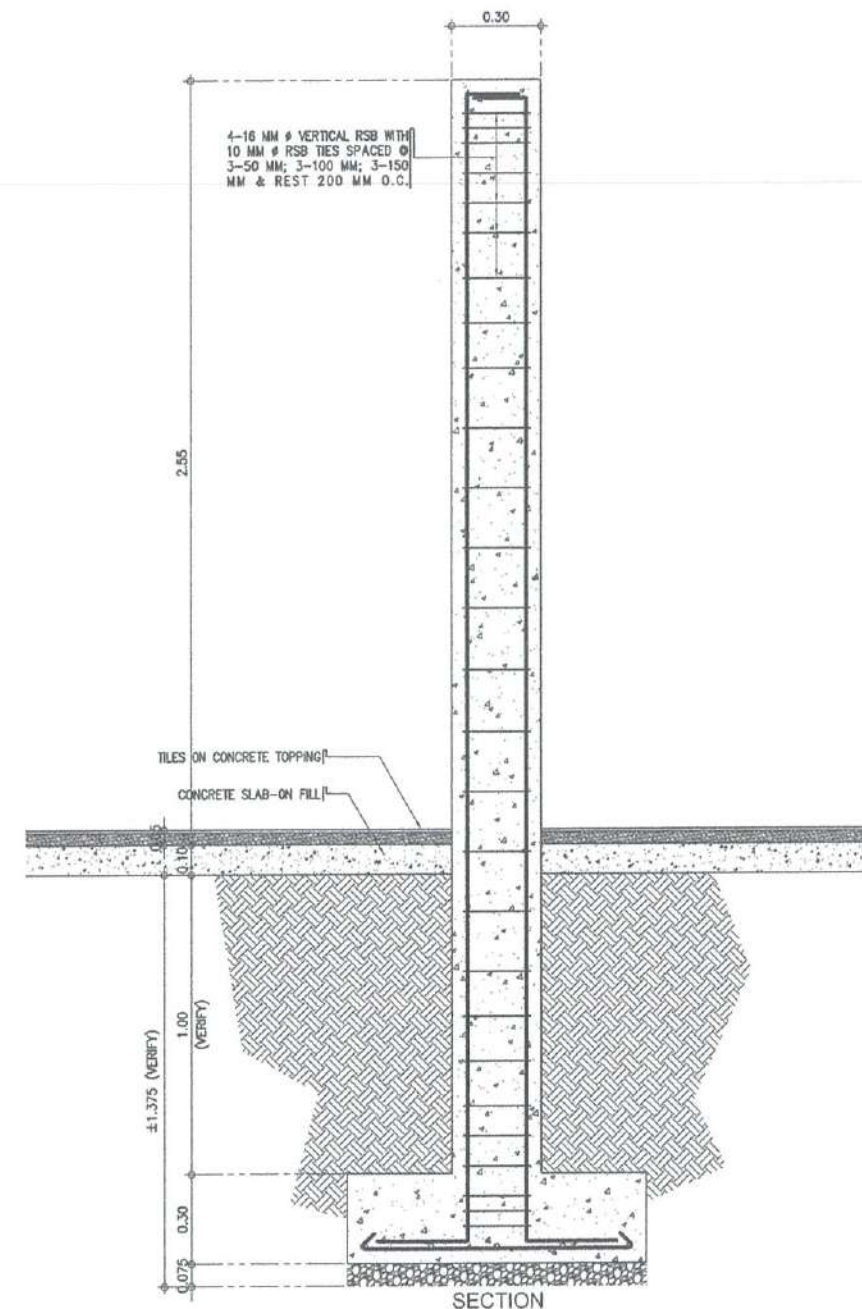
 	
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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE	
INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION	
DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (Jangz27)
CHECKED BY:	EJOUR
REVIEWED BY:	
 RAUL R. CHUCENA Division Chief III, IDDD - ADMS	
SUBMITTED BY:	
 ARNEL F. BORLADO Department Manager IIIAED-ADMS	
RECOMMENDED APPROVAL:	
 LT COL VALENTINO A. DIONELA, PAF (Ret) Assistant Director General II, ADMS	
APPROVED:	
 CAPTAIN MANUEL ANTONIO L. TAMAYO Director General	
NOTES/REVISIONS:	
PROJECT:	
BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF WAITING AREA	
LOCATION:	
BORONGAN AIRPORT BORONGAN	
SHEET CONTENTS:	
DRAWING SCALE: SHEET NO:	
AS SHOWN	S 01









1 FOUNDATION PLAN
SCALE: 1:50 M

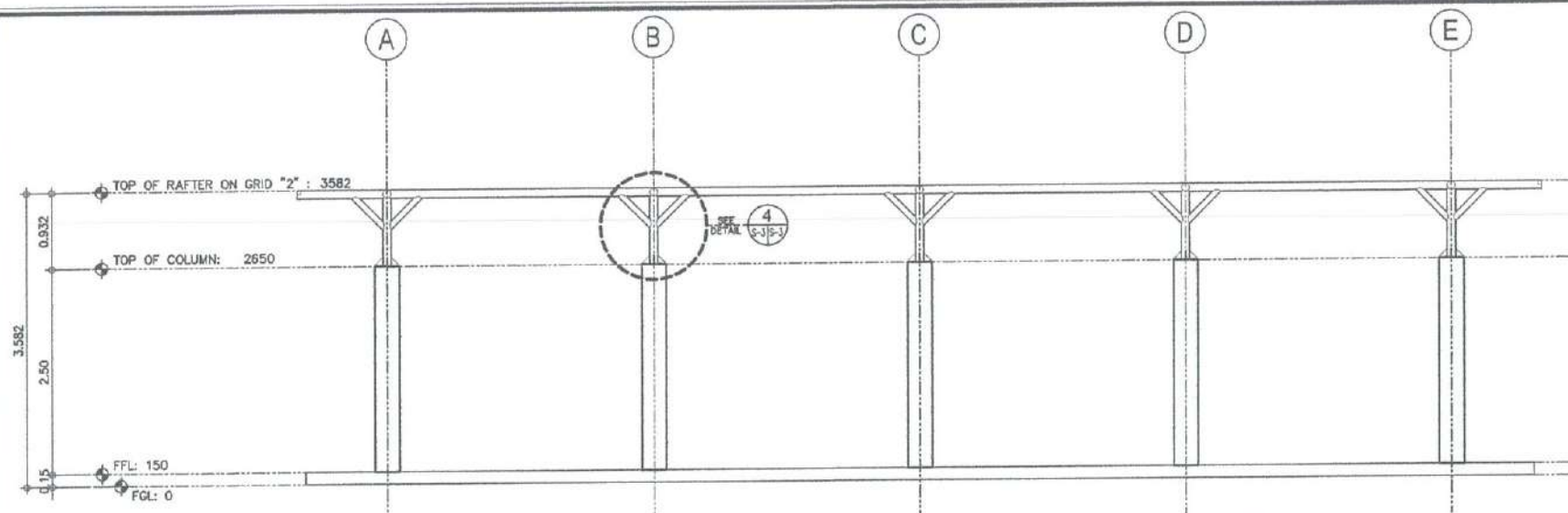


2 ROOF FRAMING PLAN
SCALE: 1:50 M

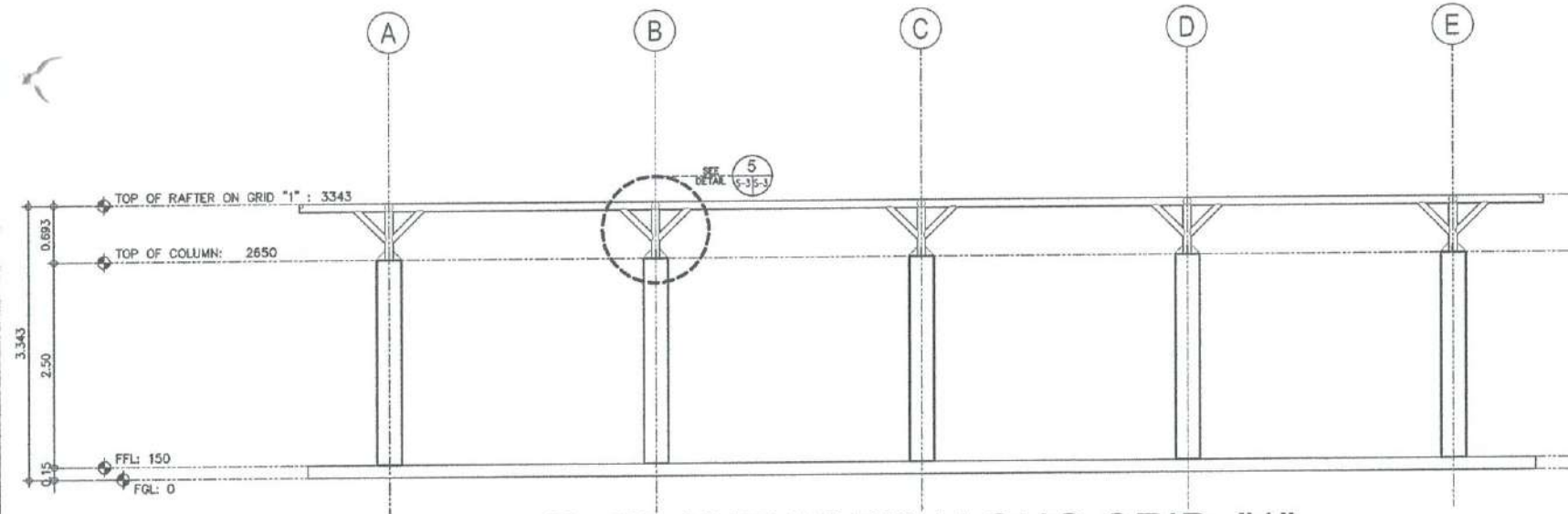


3 DETAIL OF C1F1
SCALE: 1:15 M

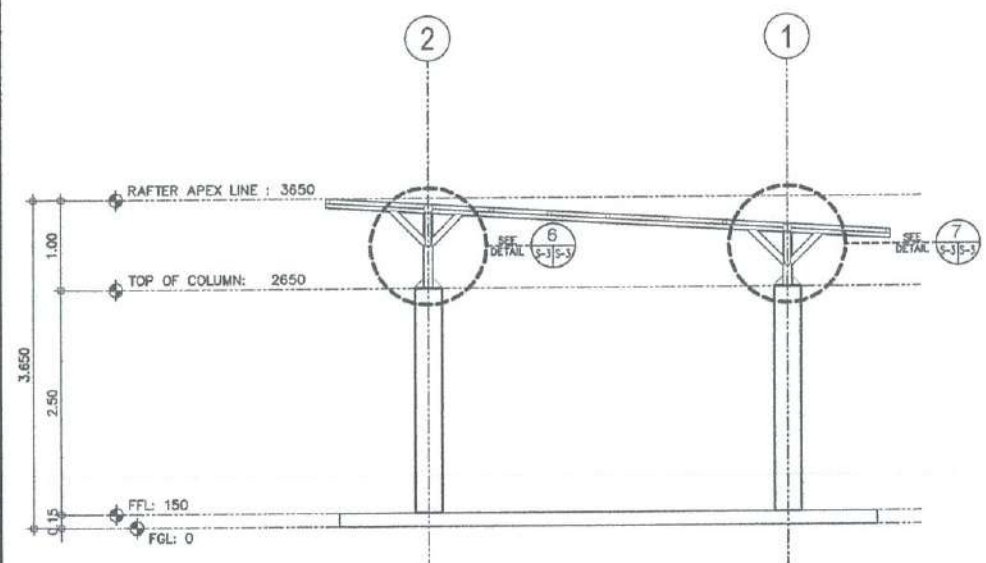
 	
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DESIGNED BY: IDDD	
DRAWN BY: E.V.B. (angz27)	
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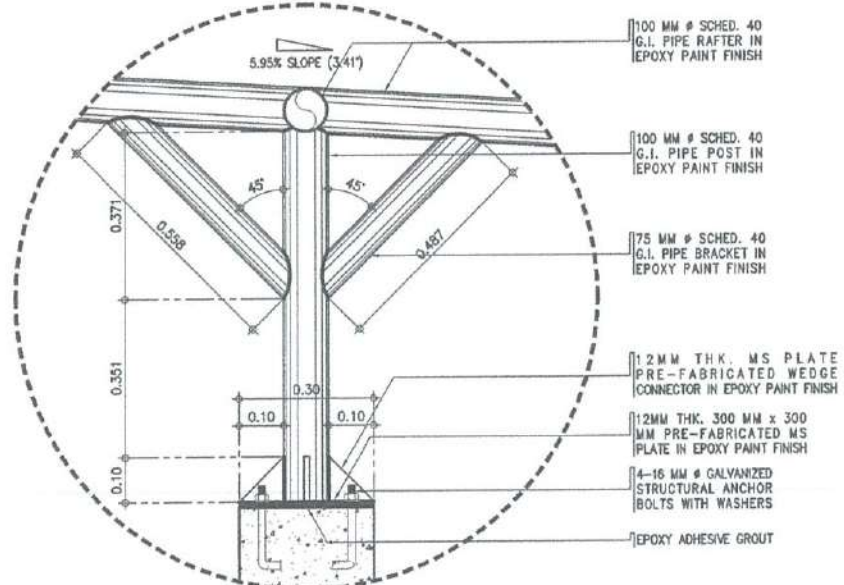
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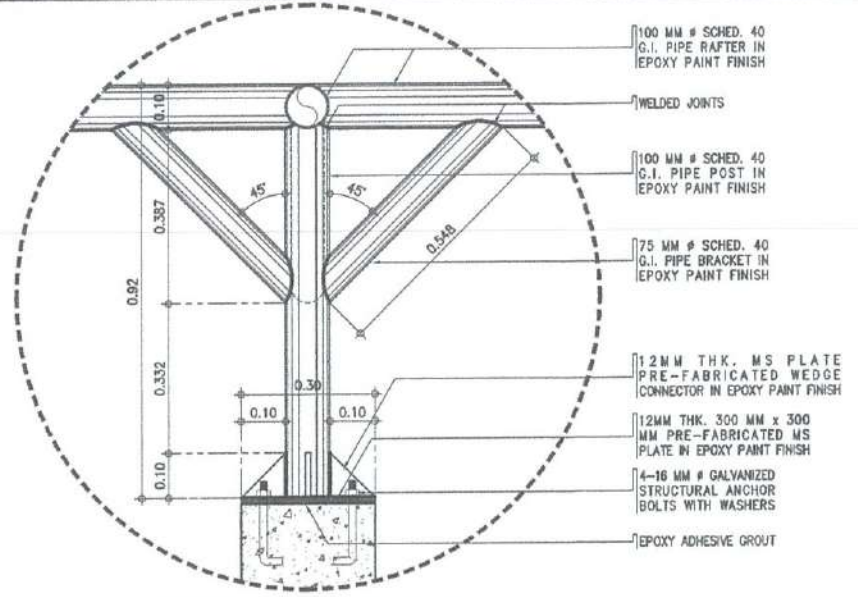
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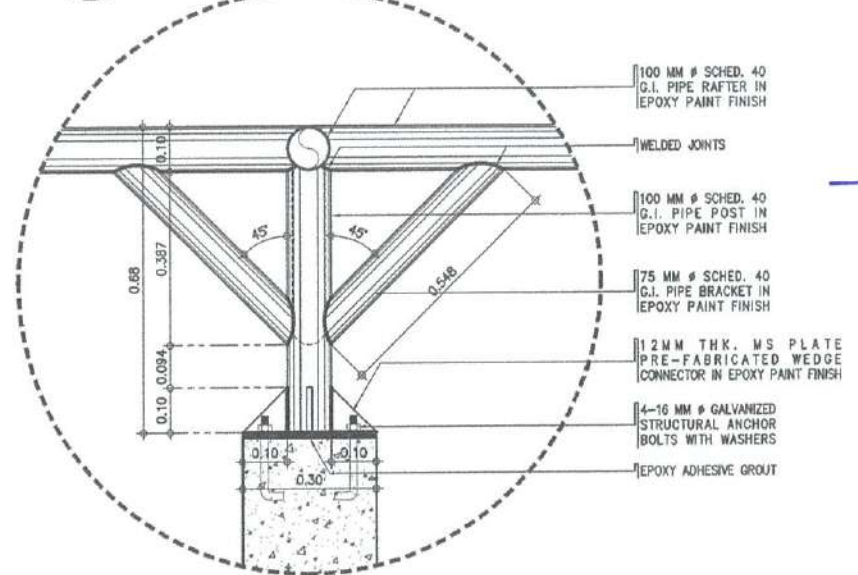
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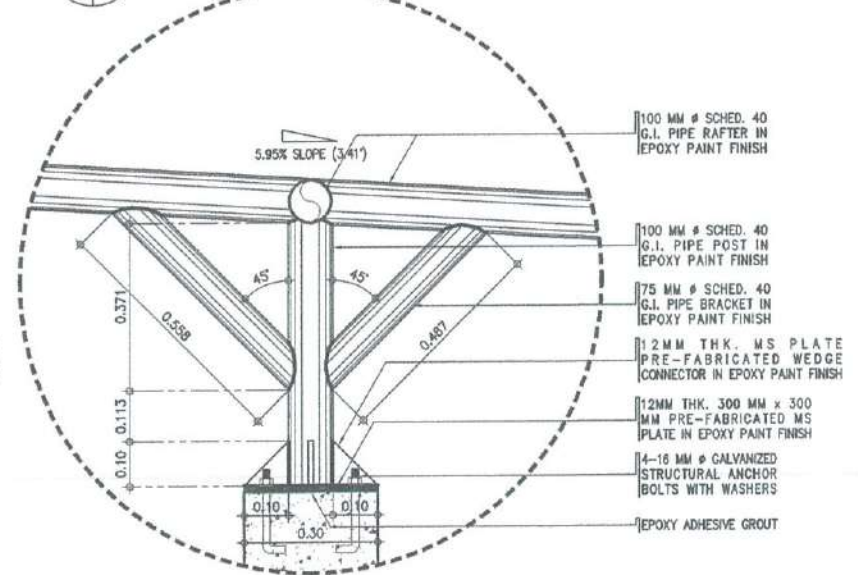
6 SPOT DETAIL 3
 SCALE: 1 : 10 M



4 SPOT DETAIL 1
 SCALE: 1 : 10 M



5 SPOT DETAIL 2
 SCALE: 1 : 10 M



7 SPOT DETAIL 4
 SCALE: 1 : 10 M

REPUBLIC OF THE PHILIPPINES
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
 AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
 NAVA ROAD, 1308 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: E.V.B. (jengz27)	
CHECKED BY: EJOJR	

REVIEWED BY:

Raul R. Cruzena
 Division Chief III, IDDD - ADMS

SUBMITTED BY:

Arnel F. Borlado
 Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

LT Col. Valentino A. Dionela, PAF (Ret)
 Assistant Director General II, ADMS

APPROVED:

Captain Manuel Antonio L. Tamayo
 Director General

NOTES/REVISIONS:

PROJECT:
 BORONGAN AIRPORT DEVELOPMENT PROJECT
 CONSTRUCTION OF WAITING AREA

LOCATION:
 BORONGAN AIRPORT
 BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	S 03



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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
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CAAP.

AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	RUAJR
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. CROCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF WAITING AREA

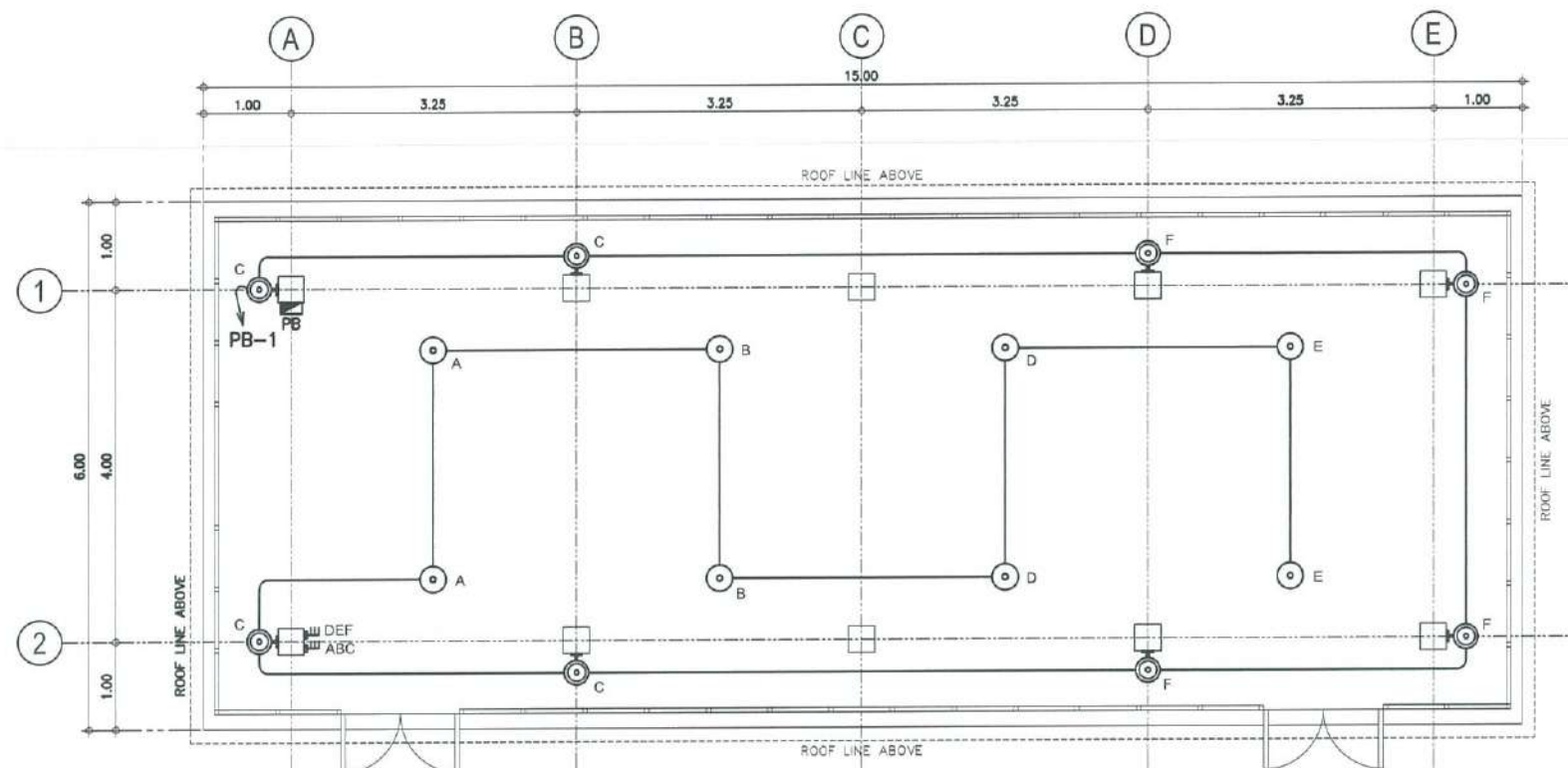
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:
• LEGENDS
• LIGHTING LAYOUT PLAN
• POWER LAYOUT PLAN

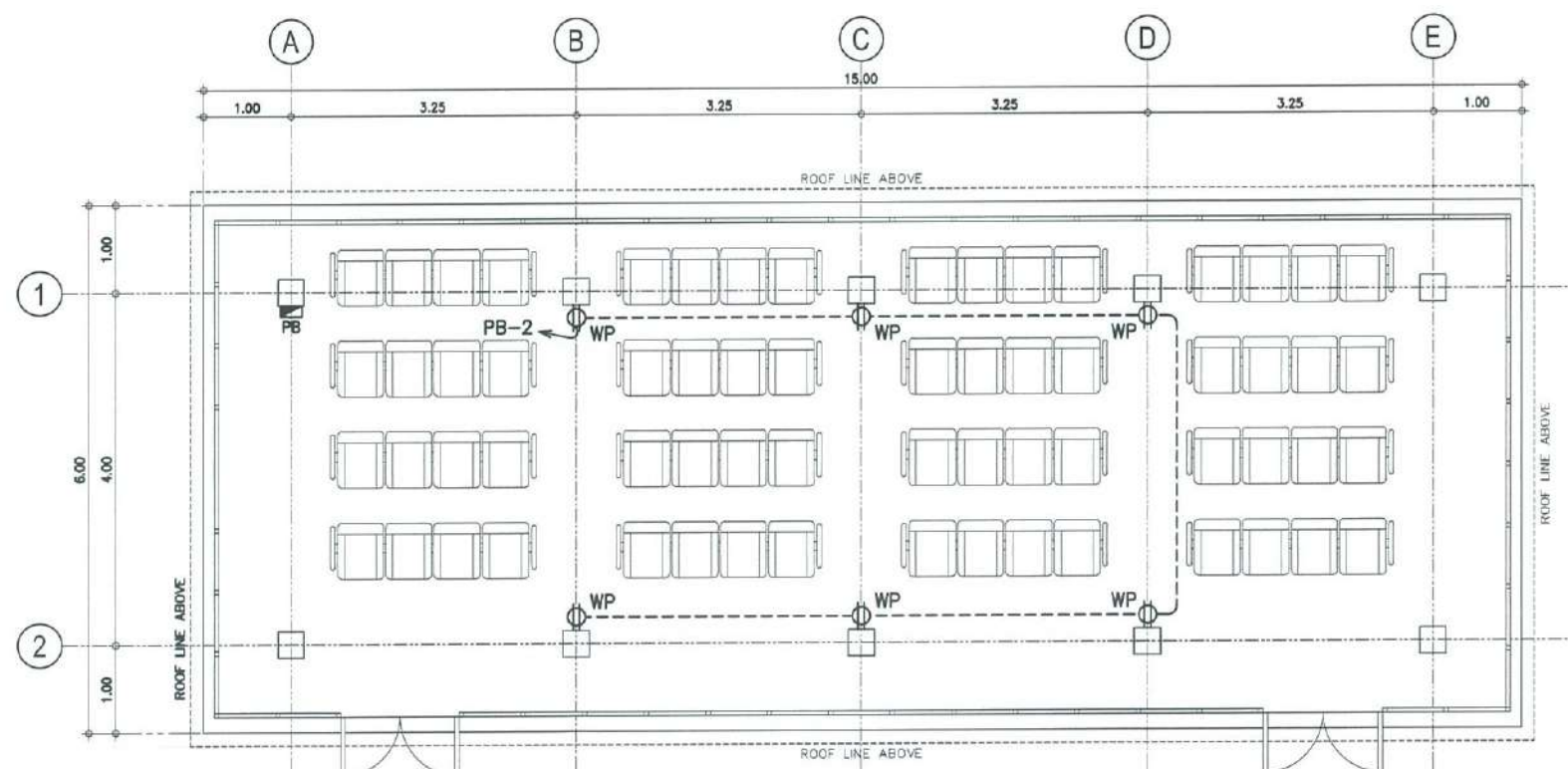
DRAWING SCALE:	SHEET NO.
AS SHOWN	E 01

LEGEND

SYMBOL	DESCRIPTION
	22 WATTS E27 LED FLAT LAMP
	18 WATTS LED WEATHERPROOF WALL LIGHT
	WEATHERPROOF DUPLEX UNIVERSAL OUTLET W/ GROUND, 16AMP
	THREE-GANG SWITCH, 16AMP, WIDE SERIES
	PANEL BOARD



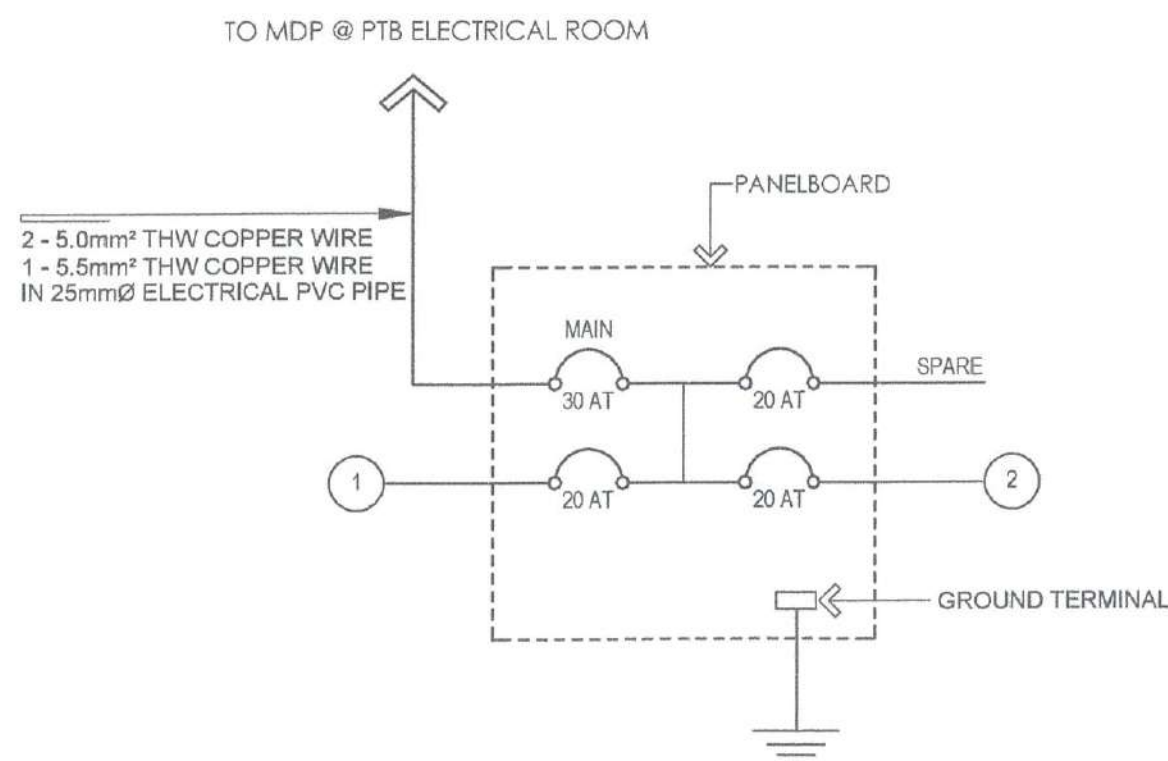
1 LIGHTING LAYOUT PLAN
E-1 E-1 SCALE: 1:50 M



2 POWER LAYOUT PLAN
E-1 E-1 SCALE: 1:50 M

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMP	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING OUTLET	16	230	480	1	2.09	20AT, 2P	2-3.5mm ² THHN/THWN-2 CU WIRE + 1-3.5mm ² THHN/THWN-2 CU WIRE (G)	20mmØ EMT PIPE
2	CONVENIENCE OUTLET	6	230	1080	1	4.70	20AT, 2P	2-3.5mm ² THHN/THWN-2 CU WIRE + 1-3.5mm ² THHN/THWN-2 CU WIRE (G)	20mmØ EMT PIPE
3	SPARE		230	1000	1	4.35	20AT, 2P		
T O T A L						11.14			
I _T = 11.14 × 1.25 I _T = 13.93 A			FOR THE FEEDER CONDUCTOR: USE: 2 - 5.5mm ² THHN/THWN-2 COPPER WIRE 1 - 5.5mm ² THHN/THWN-2 COPPER WIRE (G) IN 25mm ELECTRICAL PVC PIPE				FOR THE FEEDER PROTECTION: USE: 30AT, 100AF, 2-POLE, 230V, 10KAIC CB		

1 SCHEDULE OF LOADS



2 SINGLE LINE DIAGRAM
E-2 E-2 SCALE: NTS



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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDD
DRAWN BY:	E.V.B. (Jan 27)
CHECKED BY:	EJOJR

REVIEWED BY:

[Signature]
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

[Signature]
ARNEL F. BORLADO
Department Manager II, AED-ADMS

RECOMMENDED APPROVAL:

[Signature]
LT COL. VALENTINO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

[Signature]
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

NO.	DESCRIPTION

PROJECT:

BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF GUARD HOUSE

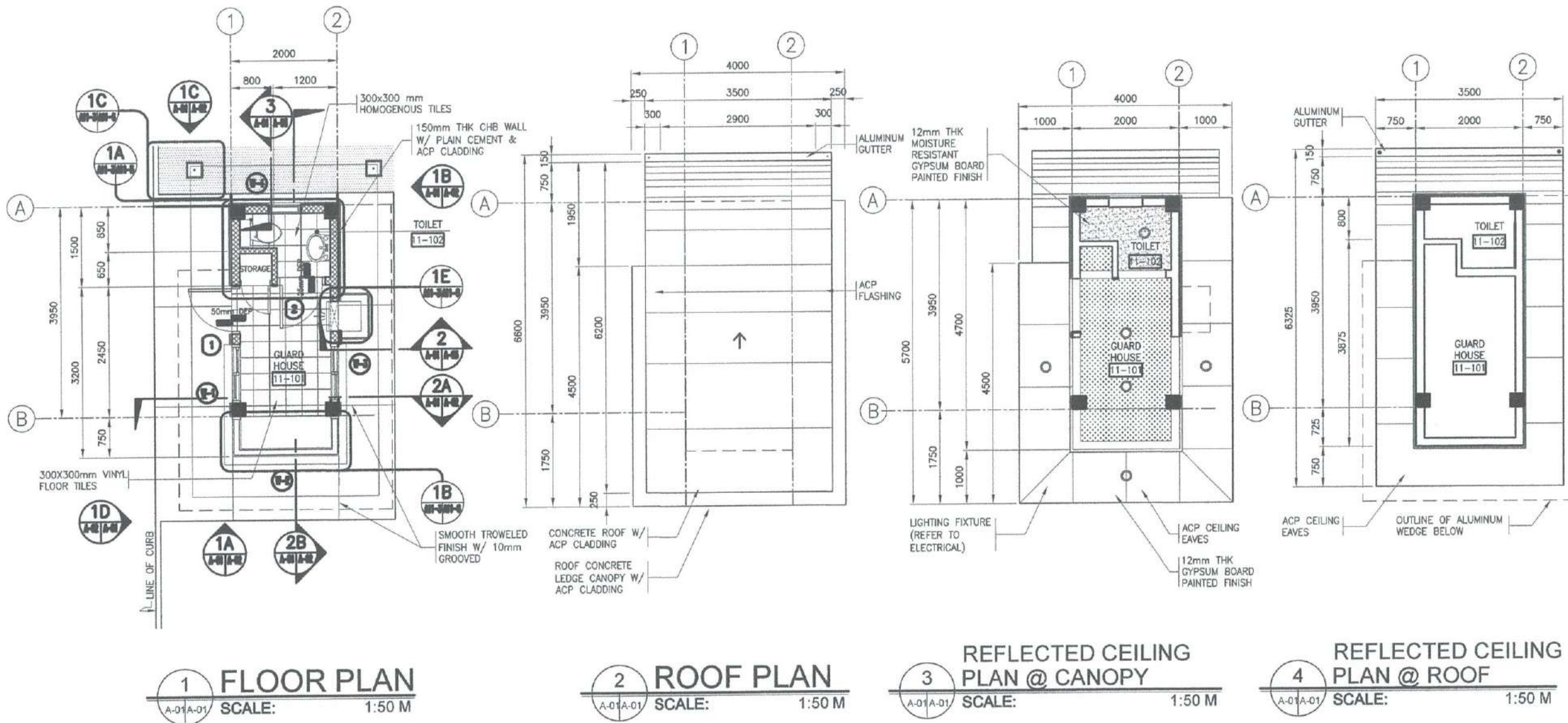
LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

- FLOOR PLAN
- ROOF PLAN
- REFLECTED CEILING PLAN @ CANOPY
- REFLECTED CEILING PLAN @ ROOF

DRAWING SCALE:	SHEET NO:
AS SHOWN	A 01





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AERODROME DEVELOPMENT
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AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (Jang27)
CHECKED BY:	E.JDJR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

NO.	DESCRIPTION

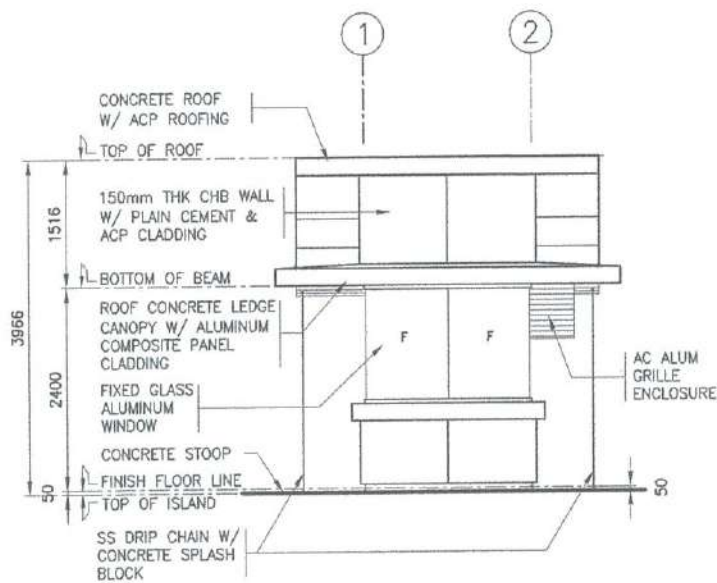
PROJECT:

BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF GUARD HOUSE

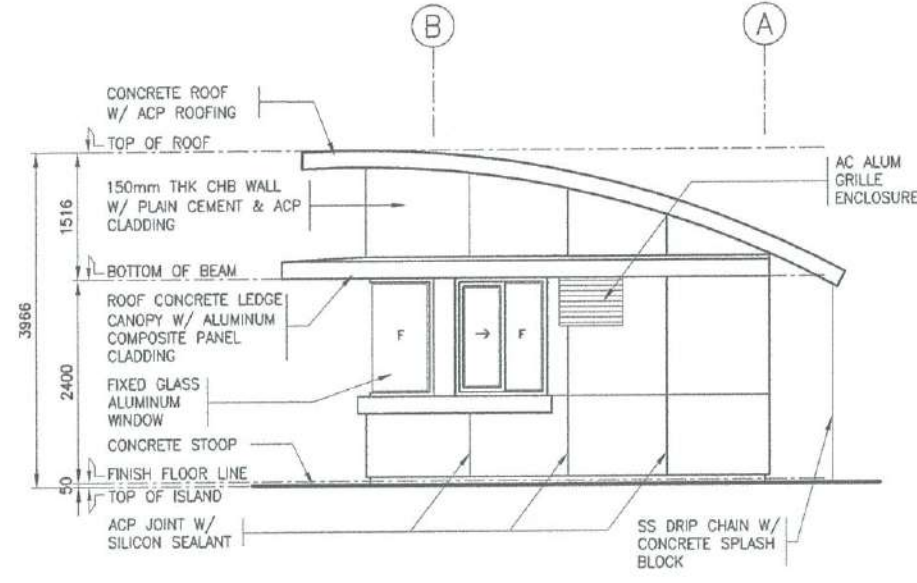
LOCATION:

BORONGAN AIRPORT
BORONGAN

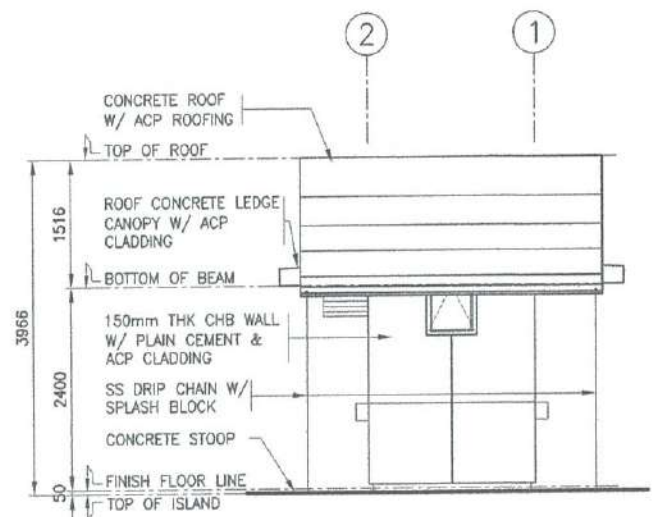
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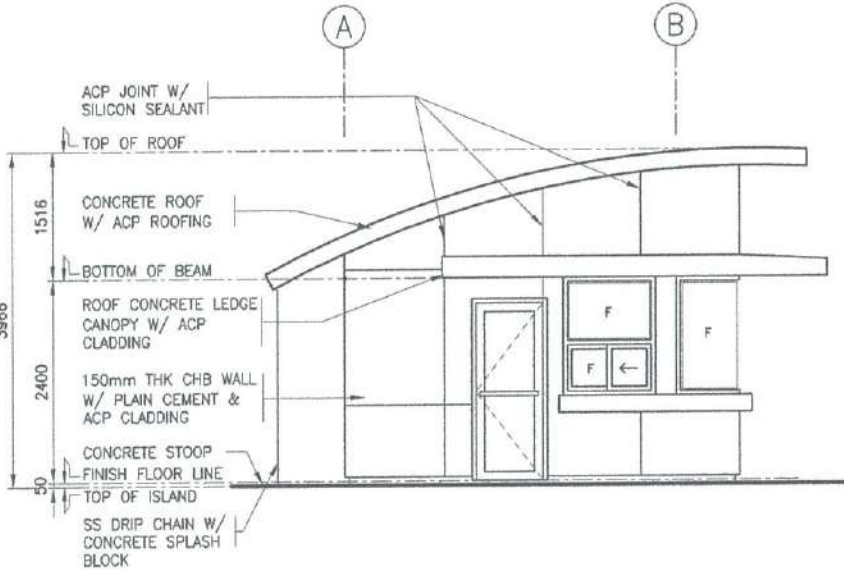
1A ELEVATION
SCALE: 1:50 M



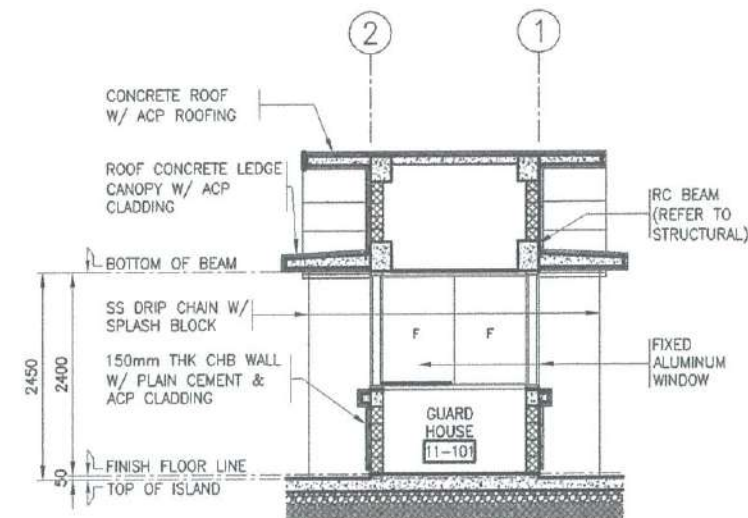
1B ELEVATION
SCALE: 1:50 M



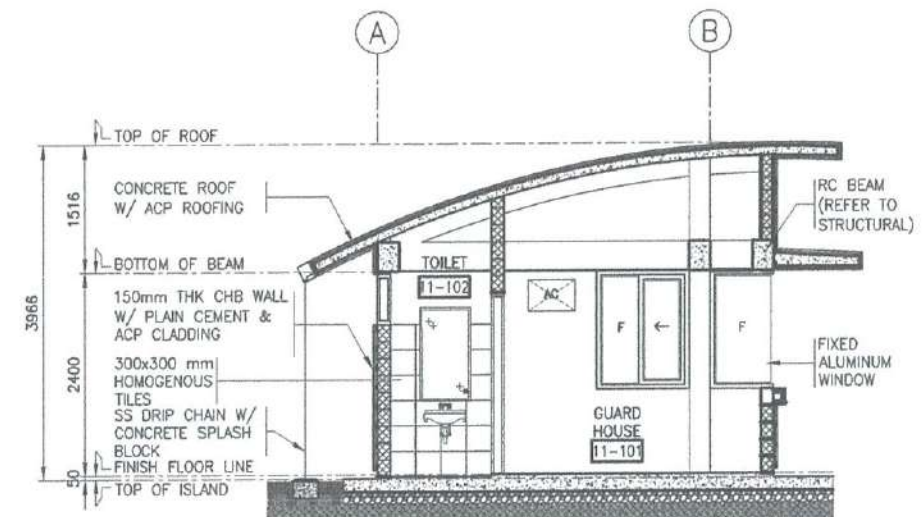
1C ELEVATION
SCALE: 1:50 M



1D ELEVATION
SCALE: 1:50 M



2A SECTION
SCALE: 1:50 M



2B SECTION
SCALE: 1:50 M



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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (Jangz27)
CHECKED BY:	EJDJR

REVIEWED BY:

RAUL R. GRUCENA
Division Chief II, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

NO.	DESCRIPTION

PROJECT:

BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF GUARD HOUSE

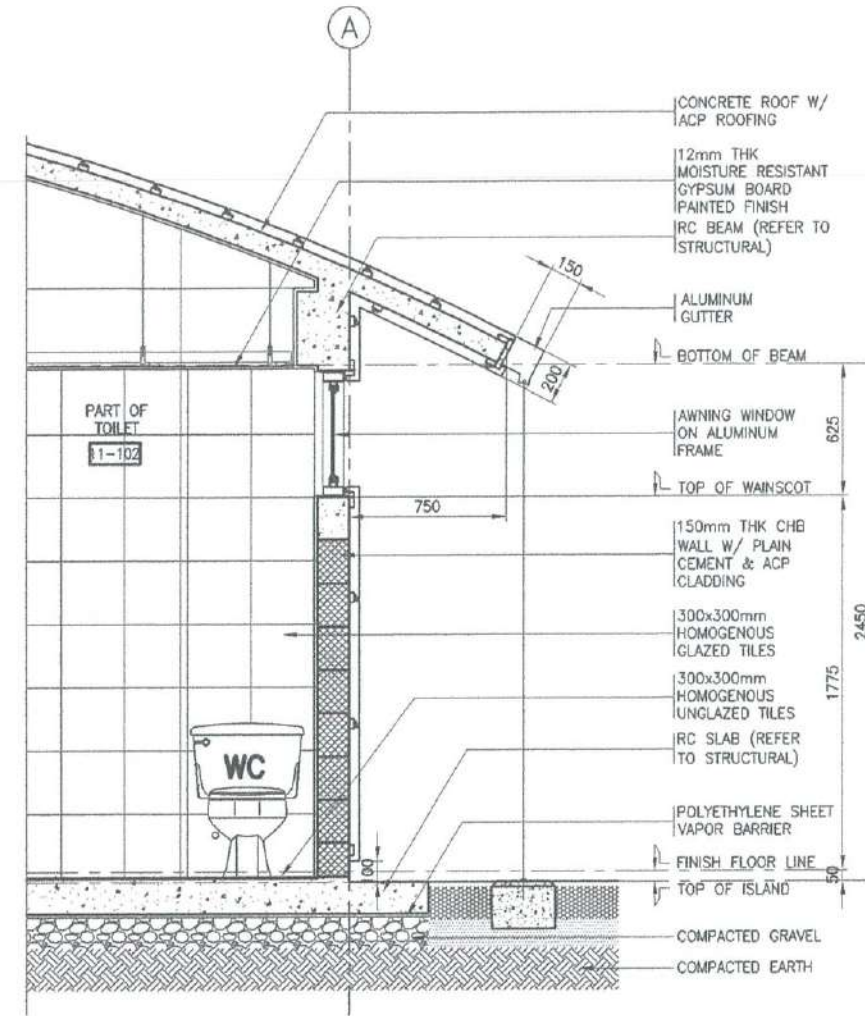
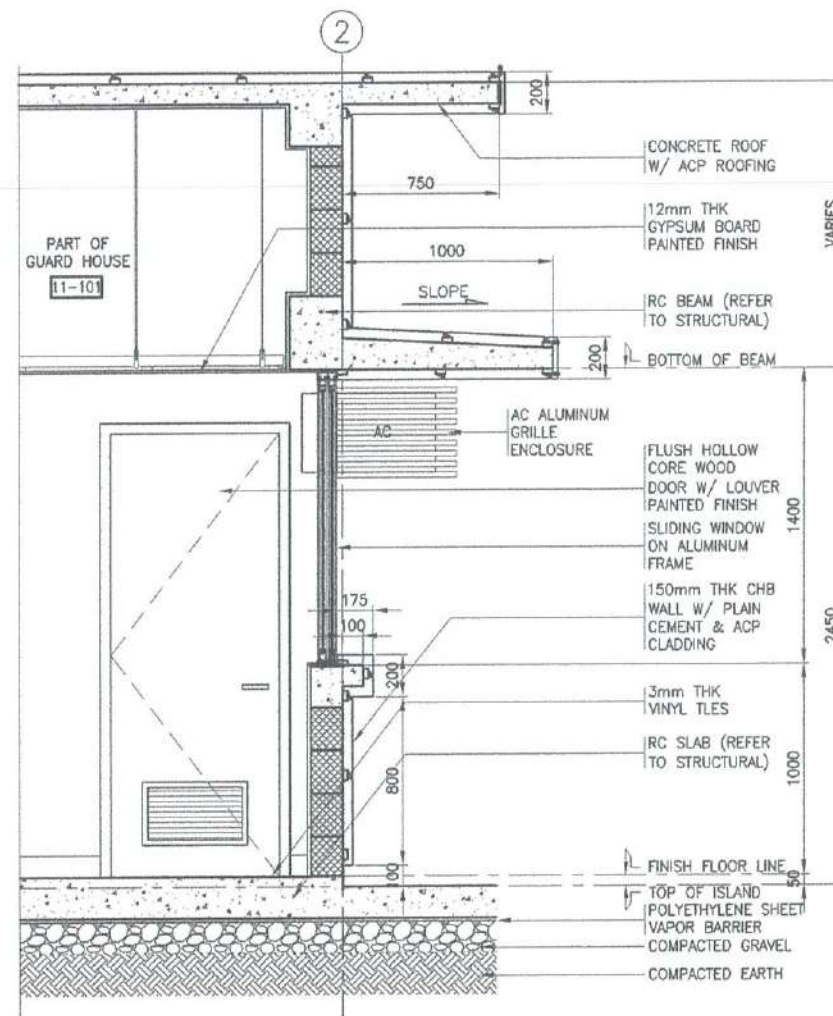
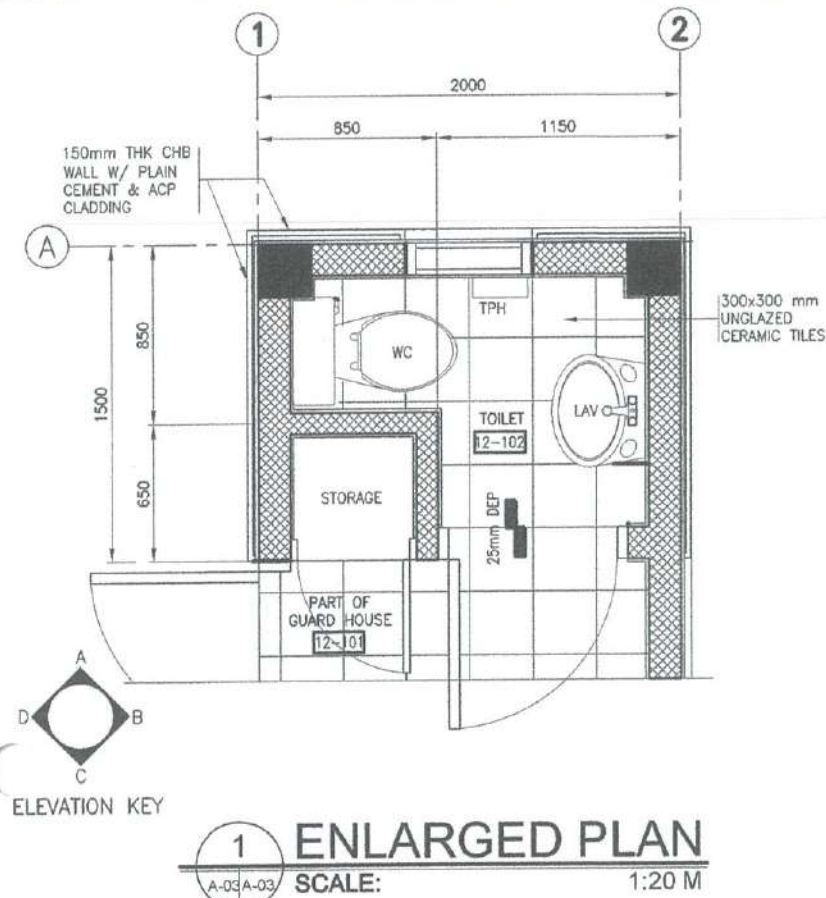
LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

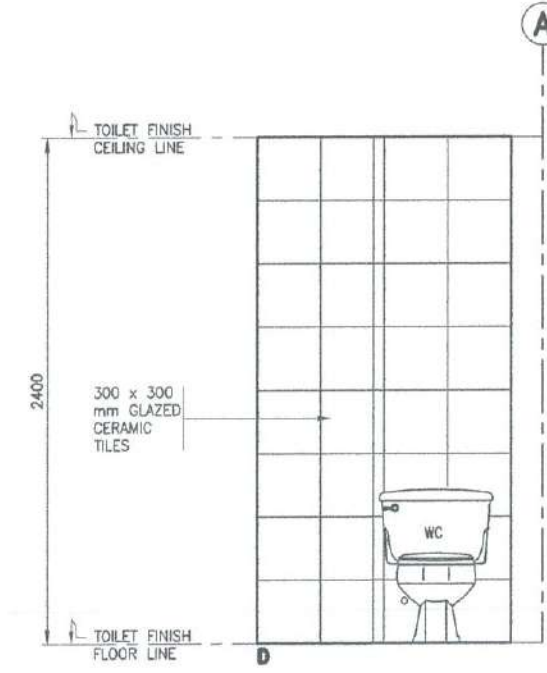
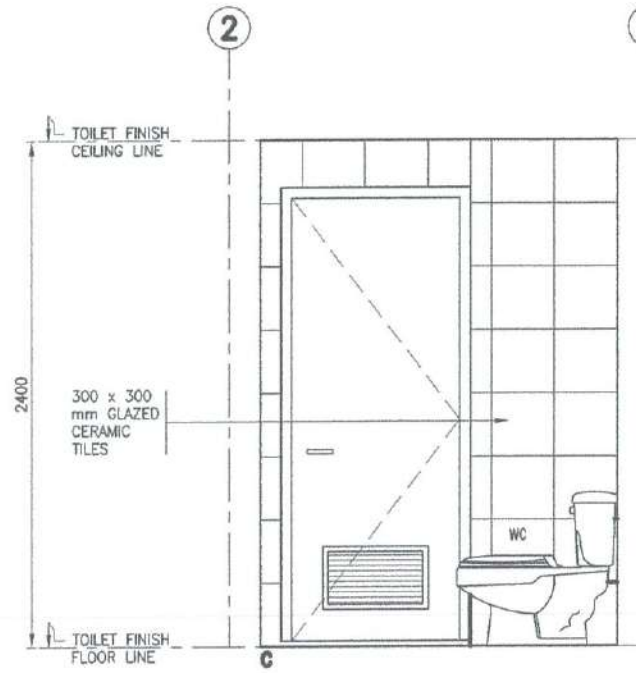
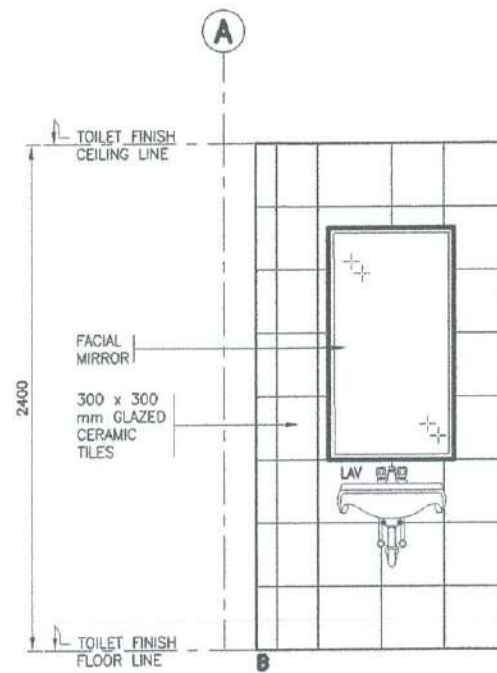
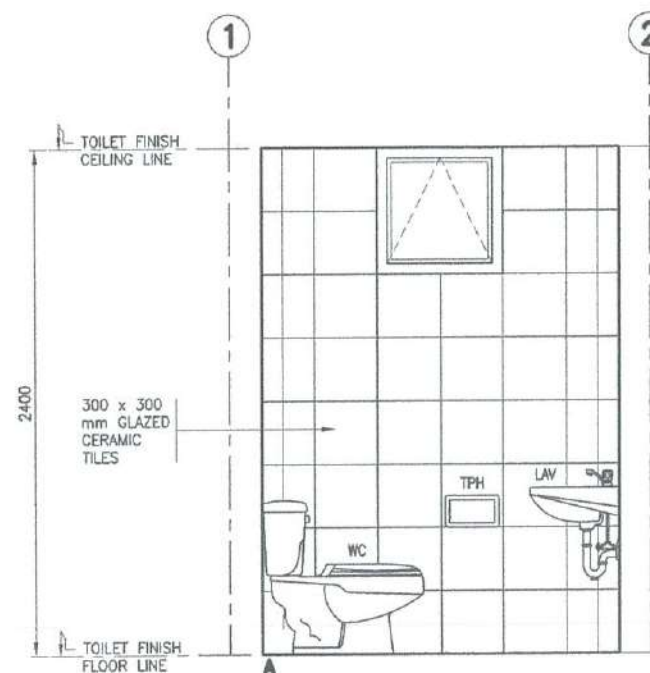
- ENLARGED PLAN
- WALL SECTIONS
- DETAILED ELEVATIONS

DRAWING SCALE:	SHEET NO.
AS SHOWN	A 03

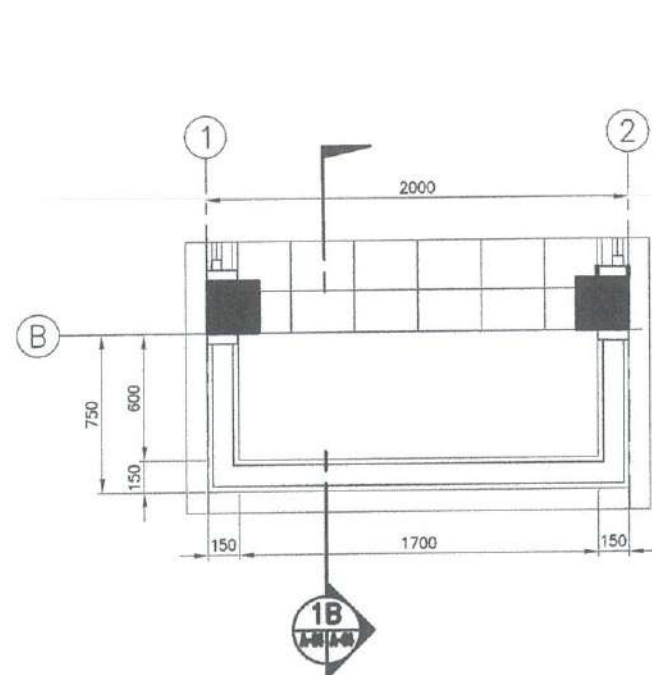


2 WALL SECTION
SCALE: 1:20 M

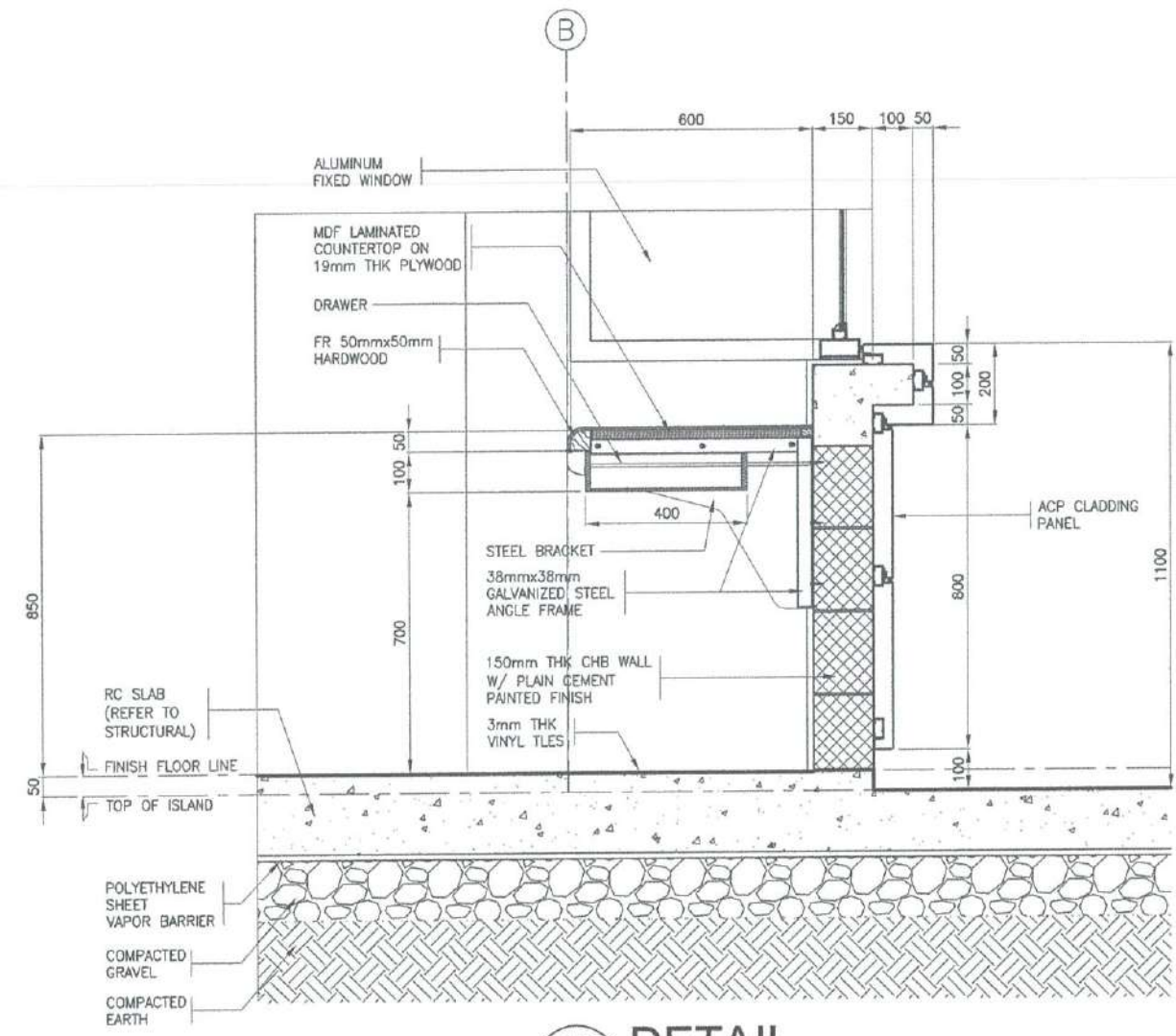
3 WALL SECTION
SCALE: 1:20 M



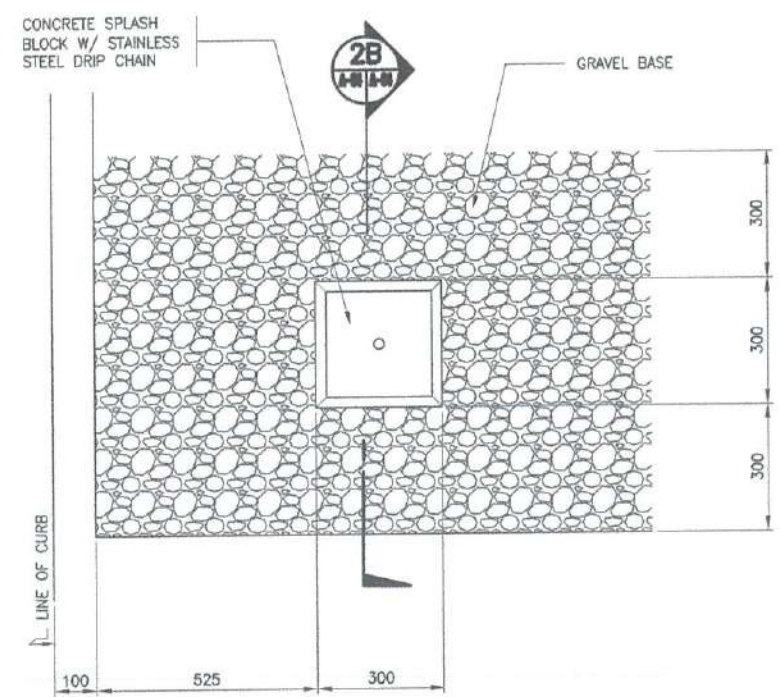
4 DETAILED ELEVATION
SCALE: 1:20 M



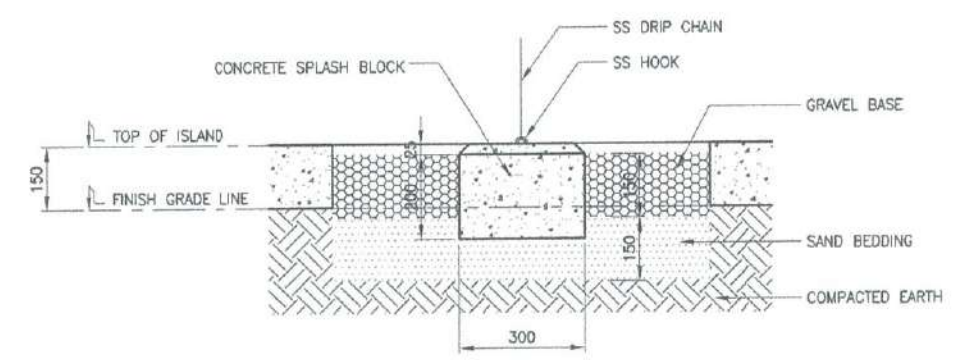
1A ENLARGED PLAN
A-01A-04 SCALE: 1:20 M



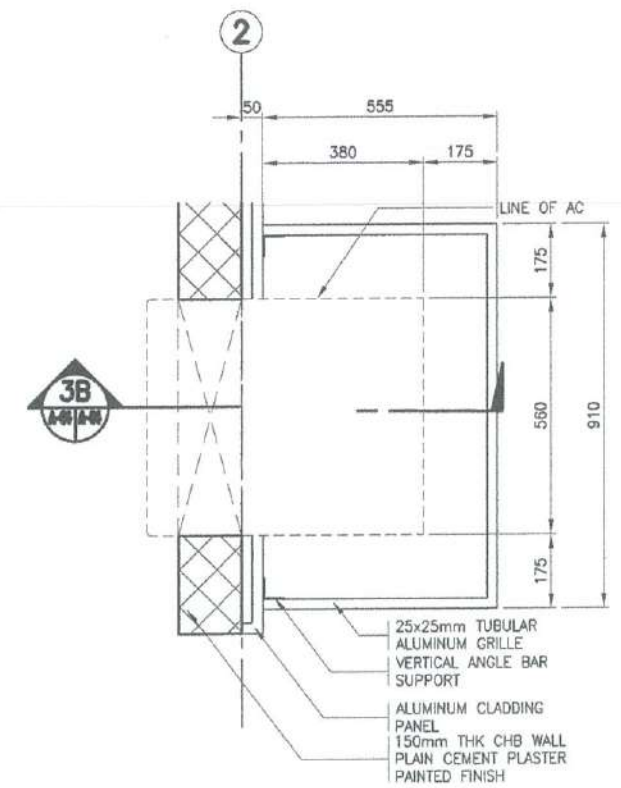
1B DETAIL
A-04A-04 SCALE: 1:10 M



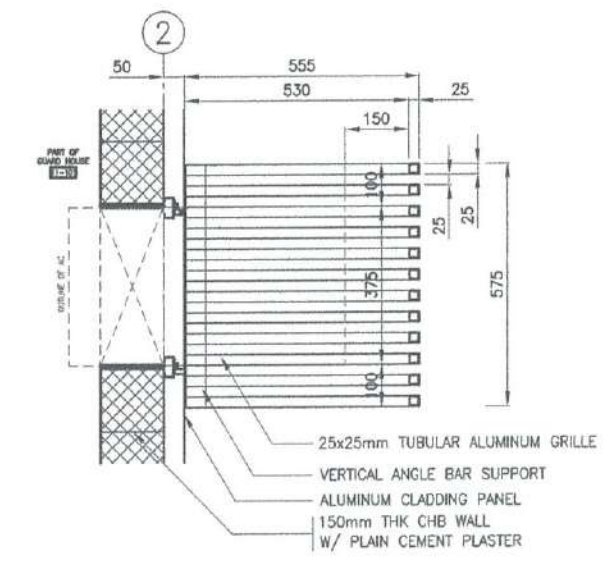
2A ENLARGED PLAN
A-01A-04 SCALE: 1:10 M



2B DETAIL
A-04A-04 SCALE: 1:10 M



3A ENLARGED PLAN
A-01A-04 SCALE: 1:10 M




3B DETAIL
A-04A-04 SCALE: 1:10 M


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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (jeng227)
CHECKED BY:	EJDJR

REVIEWED BY:

RAUL R. BRUCENA
 Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
 Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
 Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT DEVELOPMENT PROJECT
CONSTRUCTION OF GUARD HOUSE

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:
 ENLARGED PLANS
 SPOT DETAILS


DRAWING SCALE:	SHEET NO:
AS SHOWN	A 04

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

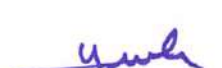
INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	ICDD
DRAWN BY:	RUAJR
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. CRUZENA
Division Chief III, ICDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

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Director General








NOTES/REVISIONS:

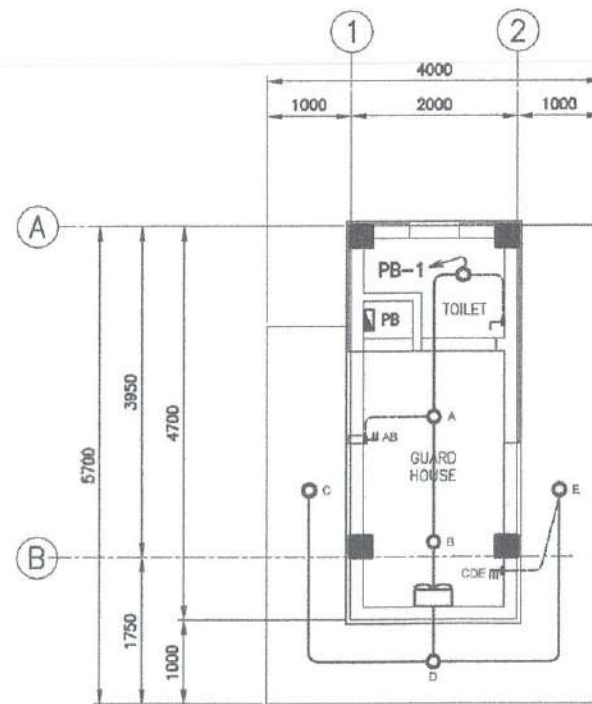
PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF GUARD HOUSE

LOCATION:
BORONGAN AIRPORT
BORONGAN

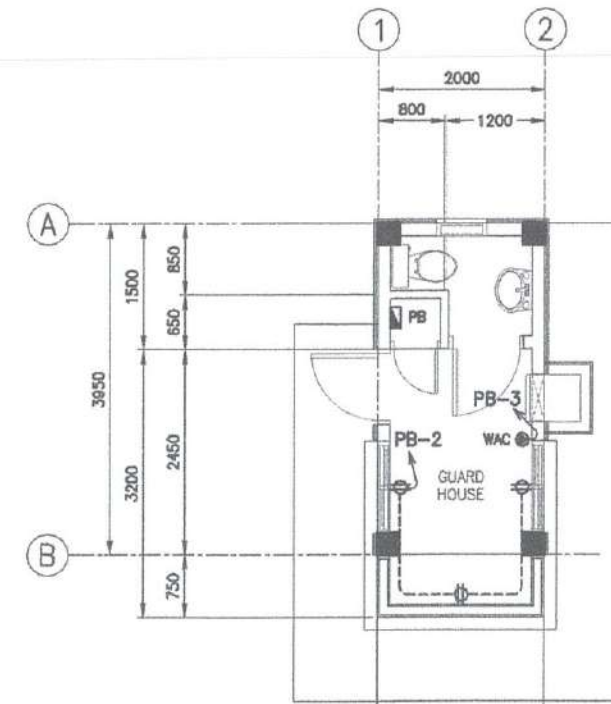
SHEET CONTENTS:
• LEGENDS
• LIGHTING LAYOUT
• POWER LAYOUT
• SCHEDULE OF LOADS
• SINGLE LINE DIAGRAM

DRAWING SCALE:	SHEET NO.:
AS SHOWN	E 01

LEGEND	
SYMBOL	DESCRIPTION
	6" DIA. DOWNLIGHT WITH FULL FROSTED GLASS DIFFUSER, 12W LED
	DUPLEX UNIVERSAL OUTLET WITH GROUND, 16AMP, WIDE SERIES
	AIR CONDITIONING UNIT OUTLET, 20AMP, WIDE SERIES
	ONE-GANG SWITCH, 16AMP, WIDE SERIES
	TWO-GANG SWITCH, 16AMP, WIDE SERIES
	THREE-GANG SWITCH, 16AMP, WIDE SERIES
	PANEL BOARD



1 LIGHTING LAYOUT
E-01/E-01 SCALE: 1:50 M

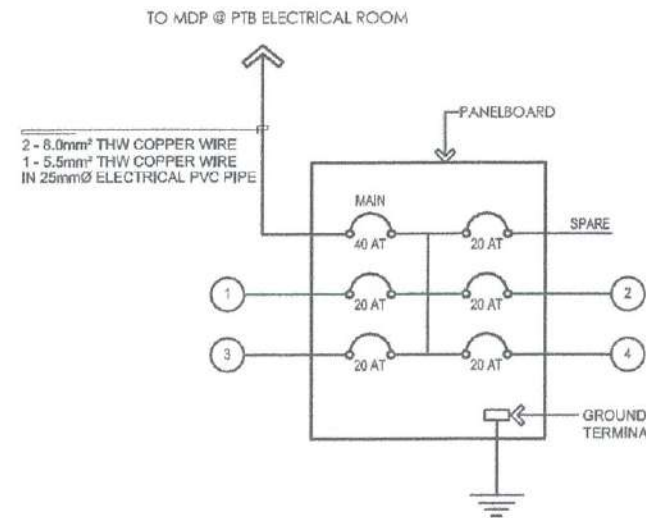


2 POWER LAYOUT
E-01/E-01 SCALE: 1:50 M

SCHEDULE OF LOADS: PB: 230VOLTS, 1-PHASE, 2WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VAPER CIRCUIT	PHASE	AMP	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING OUTLET	7	230	350	1	1.52	20AT, 2P	2-3.5mm ² THHN/THWN-2 CU WIRE + 1-3.5mm ² THHN/THWN-2 CU WIRE (G)	20mmØ uPVC PIPE
2	CONVENIENCE OUTLET	3	230	540	1	2.35	20AT, 2P	2-3.5mm ² THHN/THWN-2 CU WIRE + 1-3.5mm ² THHN/THWN-2 CU WIRE (G)	20mmØ uPVC PIPE
3	AIR CONDITIONING OUTLET	1	230	1500	1	6.52	20AT, 2P	2-3.5mm ² THHN/THWN-2 CU WIRE + 1-3.5mm ² THHN/THWN-2 CU WIRE (G)	20mmØ uPVC PIPE
4	SPARE		230	1000	1	4.35	20AT, 2P		
5	SPARE		230	1000	1	4.35	20AT, 2P		
TOTAL						19.09			
I _T = 19.09 x 1.25		FOR THE FEEDER CONDUCTOR:		FOR THE FEEDER PROTECTION:					
I _T = 23.87 A		USE: 2 - 8.0mm ² THHN/THWN-2 COPPER WIRE		USE: 40AT, 100AF, 2-POLE, 230V, 10KAIC CB					
		1 - 5.5mm ² THHN/THWN-2 COPPER WIRE							
		IN 25mm ELECTRICAL PVC PIPE							

3 SCHEDULE OF LOADS
E-01/E-01 SCALE: NTS



4 SINGLE LINE DIAGRAM
E-01/E-01 SCALE: NTS

GENERAL NOTES :

- IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND APPURTENANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE OWNER.
- ALL DIMENSIONS AND PIPE SIZES ARE IN MILLIMETERS EXCEPT OTHERWISE SHOWN. INDICATED METRIC EQUIVALENT USED ON THESE PLANS FOR PIPE SIZES:

1/2" = 15mm	1 1/2" = 40mm	3" = 75mm
3/4" = 20mm	2" = 50mm	4" = 100mm
1 1/4" = 32mm	2 1/2" = 65mm	
- ALL PLUMBING WORKS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES, THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTION OFFICE, PERTINENT PROVISIONS OF THE UNIFORM BUILDING CODE AND UNIFORM PLUMBING CODE.
- ALL PLUMBING INSTALLATIONS SHALL BE COORDINATED WITH OTHER TRADES. ANY REVISION IN THE PIPING LAYOUT REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER.
- HORIZONTAL SANITARY SEWER PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AT A MINIMUM SLOPE OF 1% FOR PIPES 100mmØ & LARGER & 2% FOR 75mmØ & SMALLER.
 - VENT PIPES SHALL BE FREE FROM DROPS OR SAGS AND SHALL BE SLOPED OR GRADED AS TO DRIP BACK BY GRAVITY TO THE DRAINAGE PIPE IT SERVES.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE, SUCH AS, THE ACTUAL PIPE SIZES, LOCATIONS, DEPTHS, TOP AND INVERT ELEVATIONS OF ALL EXISTING PIPES AND RELATED STRUCTURES. THE CONTRACTORS SHALL PROVIDE THE NECESSARY EXCAVATIONS, BACKFILLING AND SURFACE RESTORATION OF THE AFFECTED AREAS IN THE LAYING OF SEWER, AND WATER SUPPLY LINES.
- CONDENSATE DRAINAGE SYSTEM FOR AIRCONDITIONING EQUIPMENT INCLUDING PIPINGS, FITTINGS, SUPPORTS, ALL REQUIRED ACCESSORIES AND TAPPING POINTS SHALL BE PART OF MECHANICAL CONTRACTOR.
- PROVIDE VALVE BOX FOR EACH EMBEDDED GATE VALVE.
- ALL PIPE SIZES INDICATED ON PLANS WERE SIZED ACCORDING TO THEIR INSIDE DIAMETER.

MATERIALS' SPECIFICATION:

COLD WATER LINE

(INSIDE OF BUILDING) - SHALL BE POLYPROPYLENE RANDOM (TYPE 3) PN 20; HIGH RESISTANCE TO PRESSURE AND TEMPERATURE, CONFORMING TO EN ISO 15874. SIMILAR TO GEORGE FISCHER, NELTEX, UNITEC PP-R PIPE OR APPROVED EQUIVALENT.

(OUTSIDE OF BUILDING & EXPOSED) - SHALL BE HOT-DIPPED GALVANIZED IRON PIPE CONFORMING TO ASTM A53. SIMILAR TO SUPREME, SUPERIOR AND IPI PIPE SCHEDULE 40 OR APPROVED EQUIVALENT.

SOIL, WASTE AND VENT LINES

- SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (uPVC) PIPE CONFORMING TO ASTM D2729. SIMILAR TO NELTEX, MOLDEX OR EMERALD SERIES 1000 uPVC OR APPROVED EQUIVALENT.

LEGEND, SYMBOLS & ABBREVIATIONS:

WATER SUPPLY AND DISTRIBUTION SYSTEMS:

	PCWL/IML	POTABLE COLD WATER LINE
	NPCWL	NON-POTABLE COLD WATER LINE
	GV	GATE VALVE
	CV	CHECK VALVE
	RED/INC	REDUCER/INCREASER
	WM	WATER METER

ABBREVIATIONS:

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
Ø	AT	AIR CHAMBER	DIM.	DIMENSIONS	
AC	APP.	APPROXIMATE	FGL	FINISHED GRADE LINE	
BLDG.	CONC.	CONCRETE	FIN.	FINISHED	
CONC.	CONC.	CONCRETE	FLR.	FLOOR	
CONN.	CONC.	CONCRETE	FR.	FROM	
CONT.	CONC.	CONCRETE	GALV.	GALVANIZED	
CHB	CONC.	CONCRETE	G.I.	GALVANIZED IRON	
Cu.M.	CONC.	CONCRETE	G.I.P.	GALVANIZED IRON PIPE	
DIA./Ø/D	CONC.	CONCRETE	GRND.	GROUND	
	CONC.	CONCRETE	HOR.	HORIZONTAL	
	CONC.	CONCRETE	I.E.	INVERT ELEVATION	
	CONC.	CONCRETE			

SOIL, WASTE AND VENT SYSTEMS:

	SP/WP	SOIL PIPE/WASTE PIPE
	VP/VBS	VENT PIPE/VENT BELOW SLAB
	VTW	VENT THRU WALL
	FD	FLOOR DRAIN
	FCO	FLOOR CLEANOUT

PLUMBING FIXTURE CONNECTION SCHEDULE (MINIMUM PIPE SERVICE CONNECTION)

PLUMBING FIXTURE	SYMBOL	WATER SUPPLY PIPE SIZE(mm)	WASTE/SOIL PIPE SIZE(mm)	TRAP SIZE(mm)
KITCHEN SINK	KS	15	50	38
LAVATORY	LAV	15	50	38
PANTRY SINK	PS	15	50	38
SERVICE SINK	SSK	15	75	50
SHOWER	SH	15	50	50
URINAL	UR	20	50	INTEGRAL
WATER CLOSET (FLUSH TANK)	WC	15	100	INTEGRAL
WATER CLOSET (FLUSH VALVE)	WC	32	100	INTEGRAL

EQUIVALENT PIPE SIZE FOR WATER PIPES

NOMINAL PIPE DIAMETER(mm)	POLYPROPYLENE RANDOM PPR (mm)
15	20
20	25
25	32
32	40
40	50
50	63
63	75
75	100

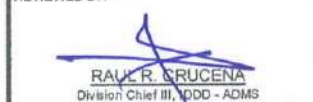
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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY: IODD	
DRAWN BY: E.V.B (eng27)	
CHECKED BY: EJDJR	

REVIEWED BY:


 RAUL R. BRUCENA
 Division Chief III, IODD - ADMS

SUBMITTED BY:


 ARNEL F. BORLADO
 Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:


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

APPROVED:


 CAPTAIN MANUEL ANTONIO L. TAMAYO
 Director General

NOTES/REVISIONS:

PROJECT:

BORONGAN AIRPORT DEVELOPMENT PROJECT
CONSTRUCTION OF GUARD POST

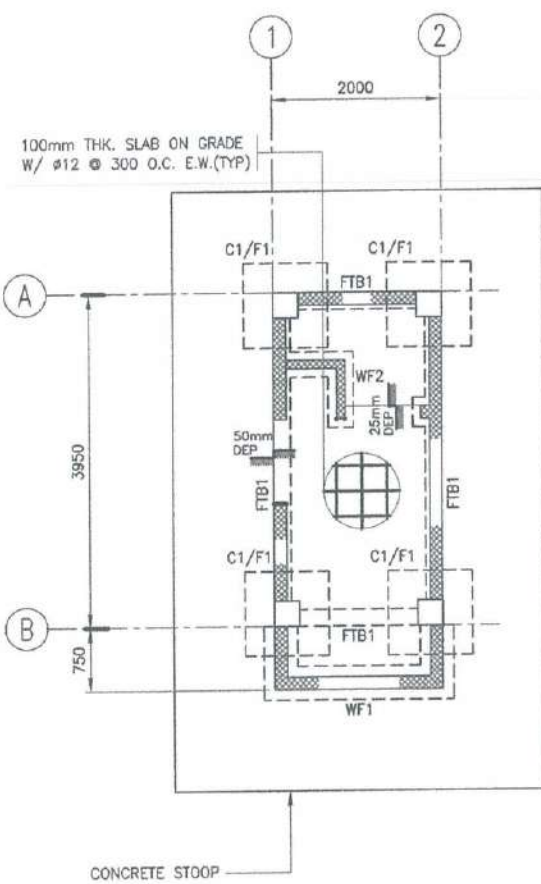
LOCATION:

BORONGAN AIRPORT
BORONGAN

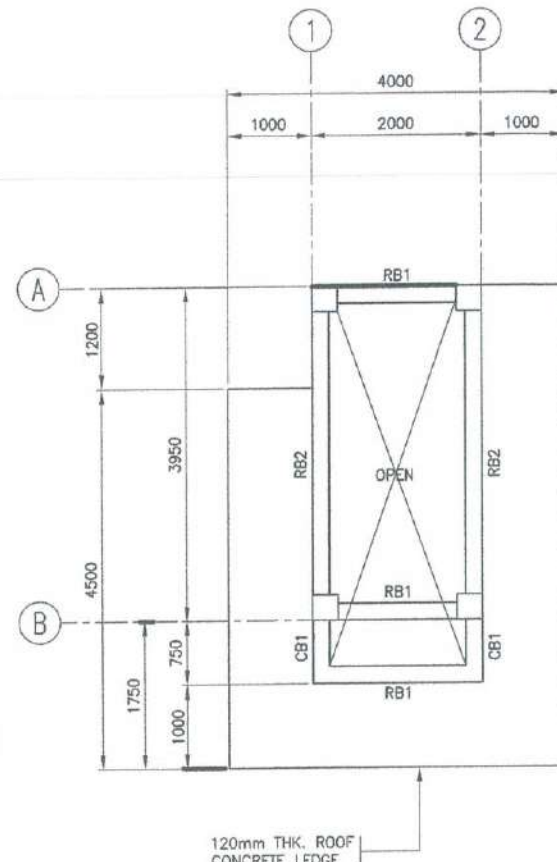
SHEET CONTENTS:

GENERAL NOTES
 LEGEND, SYMBOLS & ABBREVIATIONS
 MATERIALS' SPECIFICATIONS
 PLUMBING FIXTURE CONNECTION SCHEDULE
 EQUIVALENT PIPE SIZE FOR WATER PIPES

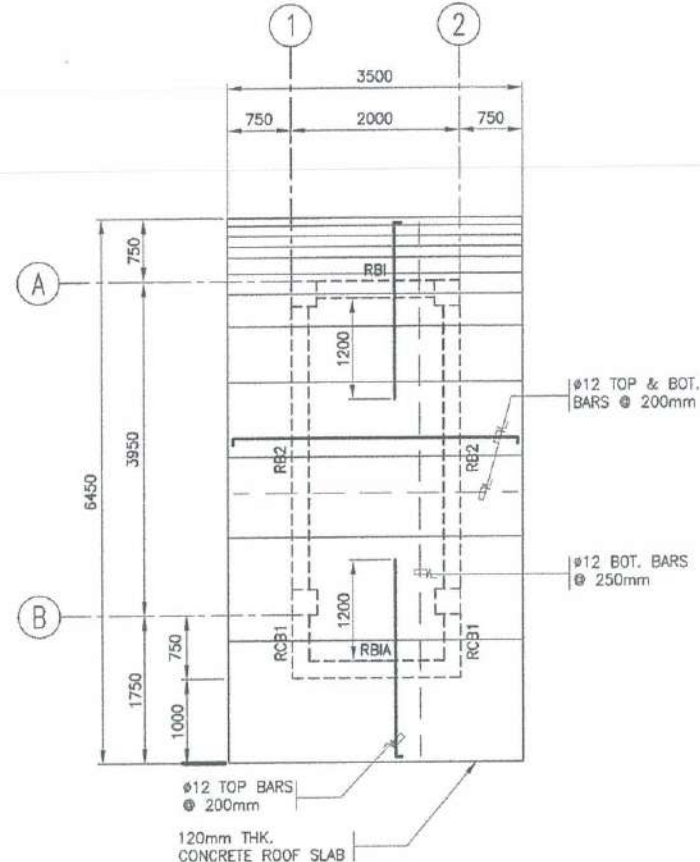
DRAWING SCALE:	SHEET NO:
AS SHOWN	P 01



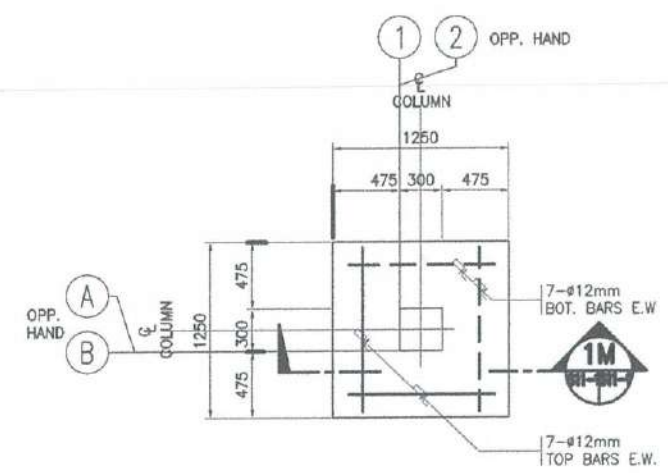
1 FOUNDATION PLAN
SCALE: 1:50 M



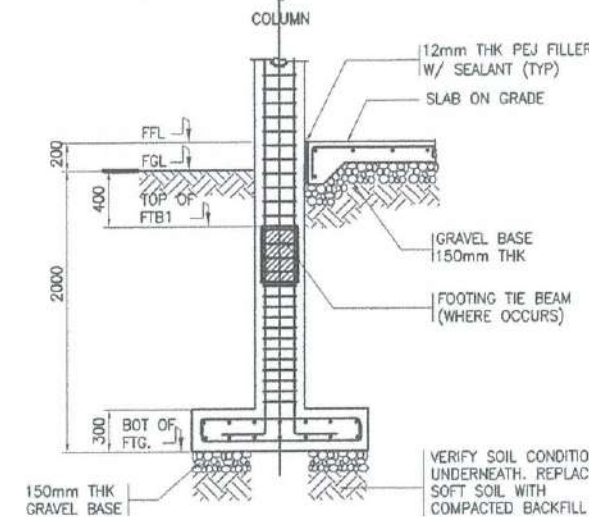
2 PLAN @ LEDGE LEVEL
SCALE: 1:50 M



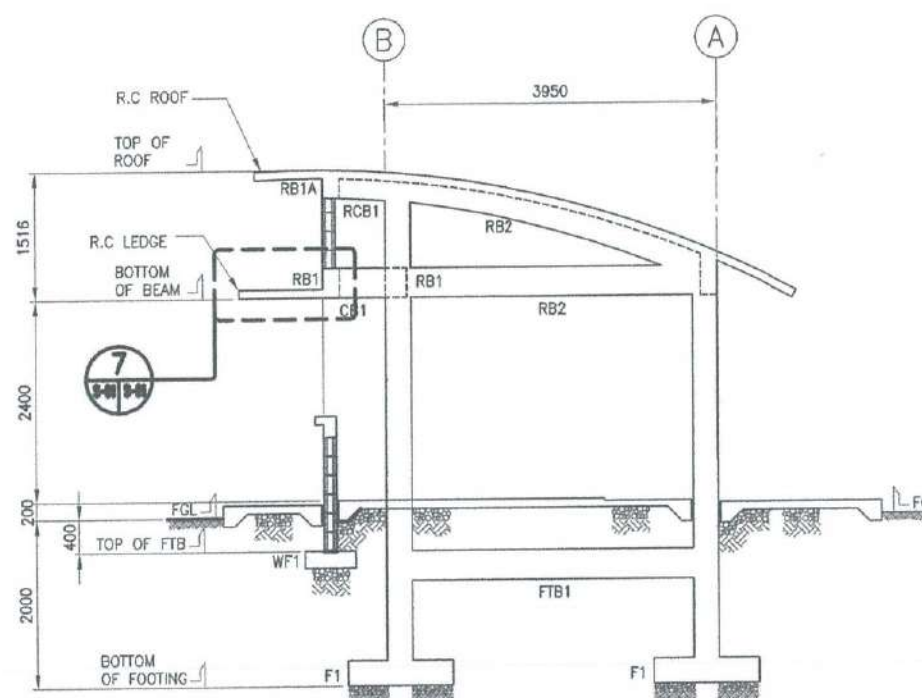
3 ROOF FRAMING PLAN
SCALE: 1:50 M



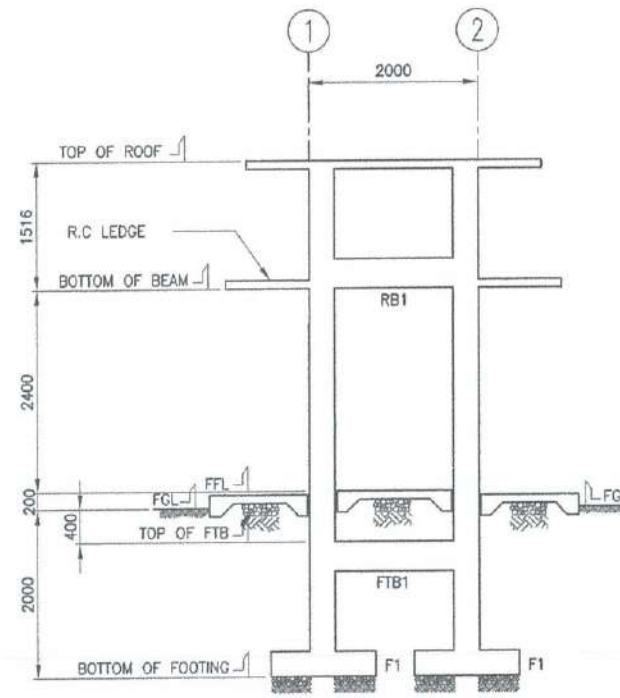
6A F1 DETAIL
SCALE: 1:30 M



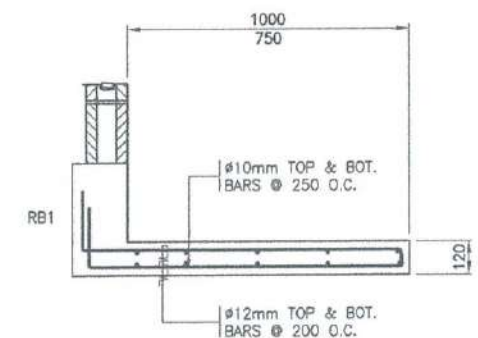
6B SECTION
SCALE: 1:30 M



4 SECTION
SCALE: 1:30 M



5 SECTION
SCALE: 1:30 M




7 LEDGE SECTION
SCALE: 1:15 M


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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (janz27)
CHECKED BY:	EJQJR

REVIEWED BY:

RAUL R. CRUZENA
Division Chief II, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

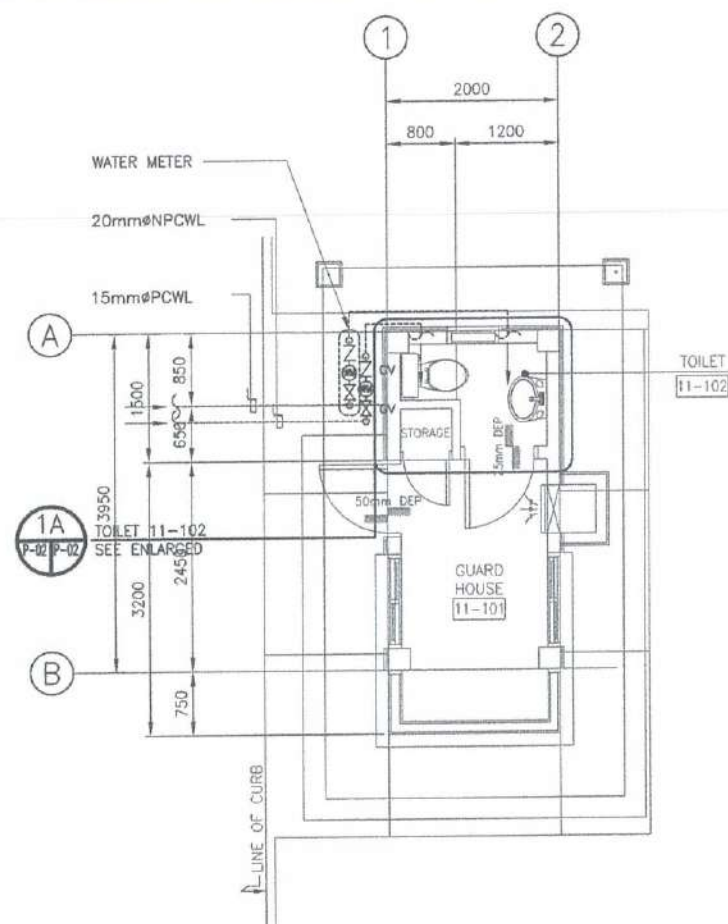
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
CONSTRUCTION OF GUARD POST

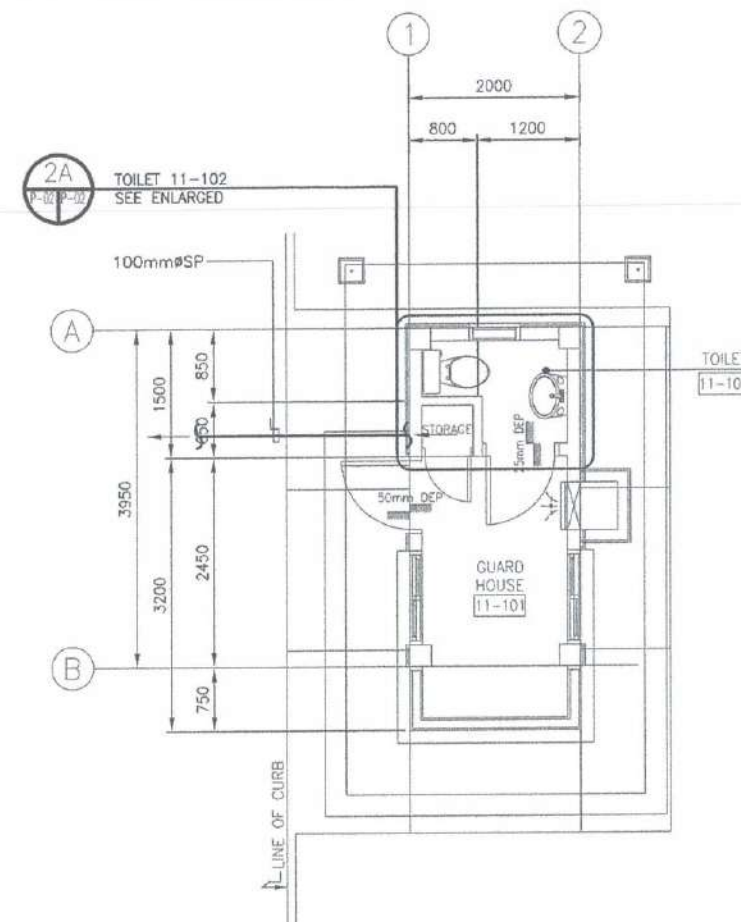
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:
WATER SUPPLY PIPING LAYOUT
SEWER, WASTE, & VENT PIPING LAYOUT
ENLARGED PLANS
ISOMETRIC VIEWS

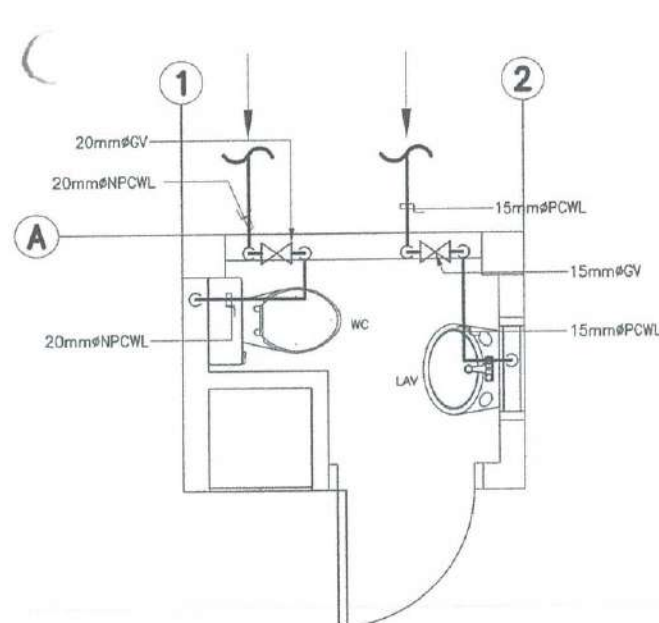
DRAWING SCALE:	SHEET NO:
AS SHOWN	P 02



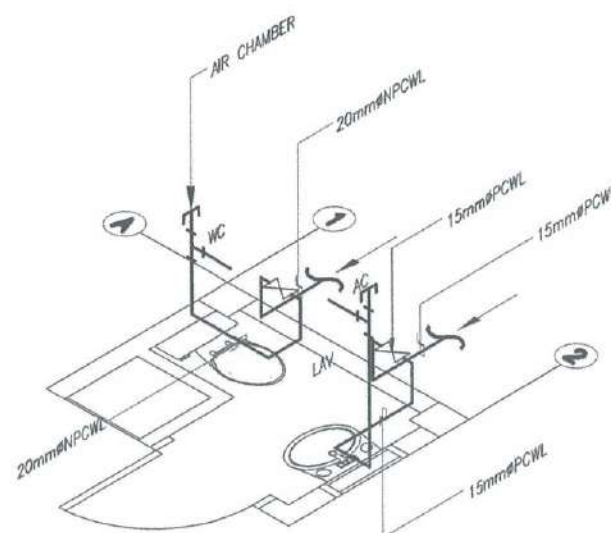
1 WATER SUPPLY PIPING LAYOUT
SCALE: 1:50 M



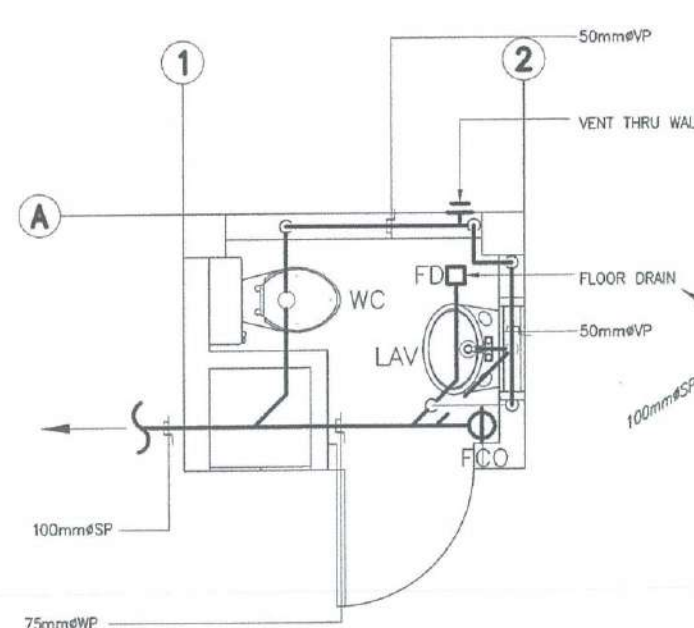
2 SEWER, WASTE & VENT PIPING LAYOUT
SCALE: 1:50 M



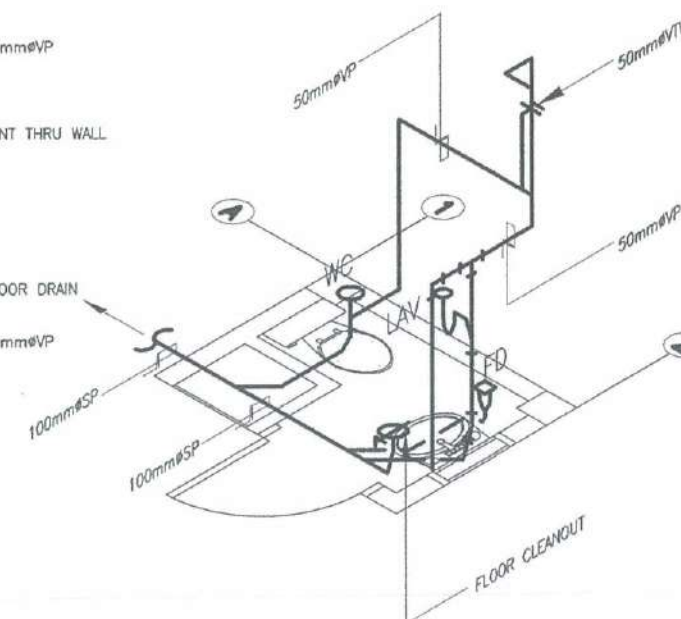
1A ENLARGED PLAN
SCALE: 1:25 M



1B ISOMETRIC VIEW
SCALE: 1:25 M



2A ENLARGED PLAN
SCALE: 1:25 M



2B ISOMETRIC VIEW
SCALE: 1:25 M

GENERAL NOTES:

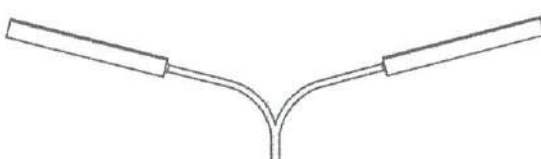
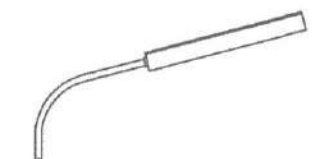
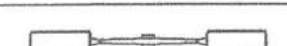
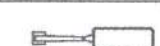
1. ALL ELECTRICAL WORKS AND INSTALLATIONS SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND REGULATIONS OF THE UTILITY COMPANIES CONCERNED.
2. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
3. ALL MATERIALS SHALL BE BRAND NEW AND SUBJECT FOR APPROVAL BY CAAP PROJECT IN-CHARGE.
4. ALL WORKS SHALL BE EXECUTED IN A WORKMANSHIP MANNER AND SHALL PRESENT A NEAT AND ORDERLY ACCEPTANCE.
5. PROVIDE STREETLIGHT PHOTOMETRIC TEST REPORT CERTIFIED BY DEPARTMENT OF ENERGY (DOE) TO VERIFY CLAIMS ON ENERGY RATINGS.

SPECIFICATIONS:

80 WATTS INTEGRATED SOLAR LED STREETLIGHT

WATTAGE	:	80 WATTS
SOLAR PANEL	:	18V/85W MONOCRYSTALLINE SILICON
BATTERY	:	12.8V/48AH BUILT-IN LIFEPO4 LITHIUM IRON BATTERY
LIGHT OUTPUT	:	8,800 LUMEN / 80 WATTS
LIFE TIME	:	50,000 HOURS
COLOR TEMP.	:	6500K
LAMP MATERIAL	:	ALUMINUM ALLOY
BODY COLOR	:	WHITE
WORKING MODEL	:	MOTION SENSOR OR TIME CONTROL
CHARGING TIME	:	6-8 HOURS (BY SUN)
DISCHARGE TIME	:	3-5 RAINY DAYS, 12 HOURS PER NIGHT
IP RATING	:	IP65
CERTIFICATES	:	CE, ROHS, IP65
WARRANTY	:	2 YEARS
PRODUCT SIZE	:	1,340 x 430 x 50mm

LEGENDS

	
SYMBOL: 	SYMBOL: 
DESCRIPTION: TWO (2) INTEGRATED SOLAR LED STREETLIGHT IN DOUBLE ARM LAMP POST	DESCRIPTION: ONE (1) INTEGRATED SOLAR LED STREETLIGHT IN SINGLE ARM LAMP POST




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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE


INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	ICDD
DRAWN BY:	RUAJR
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. CHUCENA
Division Chief III, IDAD - ADMS

SUBMITTED BY:

ARNEL E. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
VPA AND ACCESS ROAD
LIGHTING

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	E 01



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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	DDDD
DRAWN BY:	RUAJR
CHECKED BY:	EJDIR

REVIEWED BY:

RAUL R. CRUZENA
Division Chief III, IADD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL V. ONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

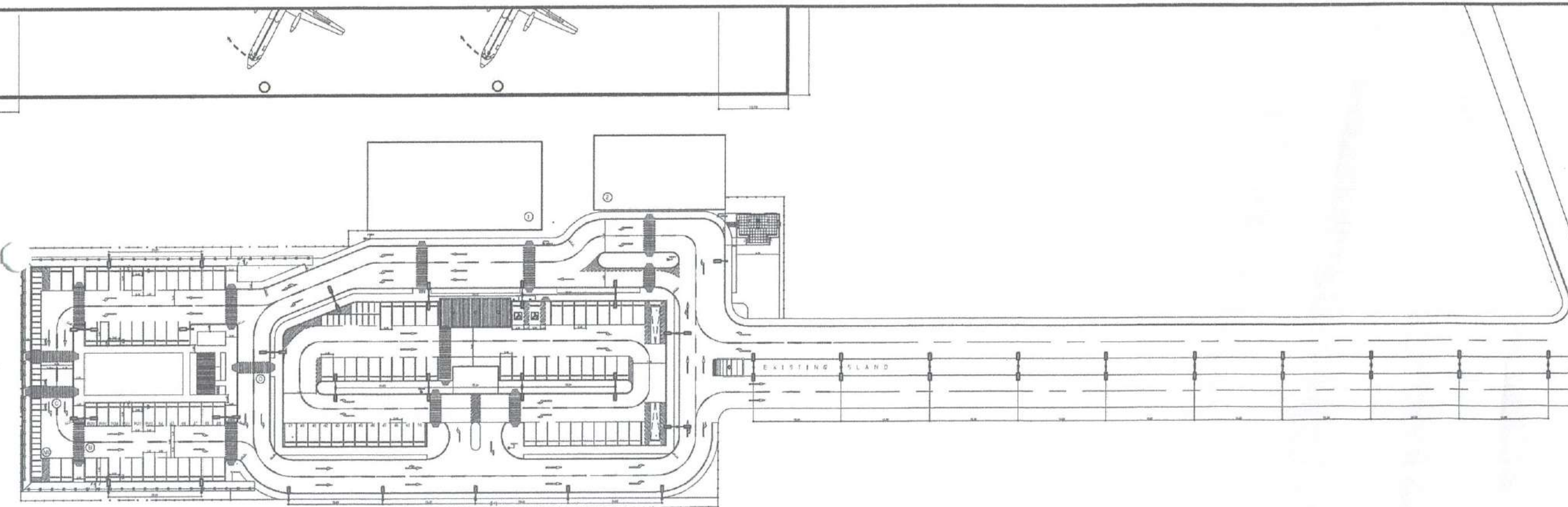
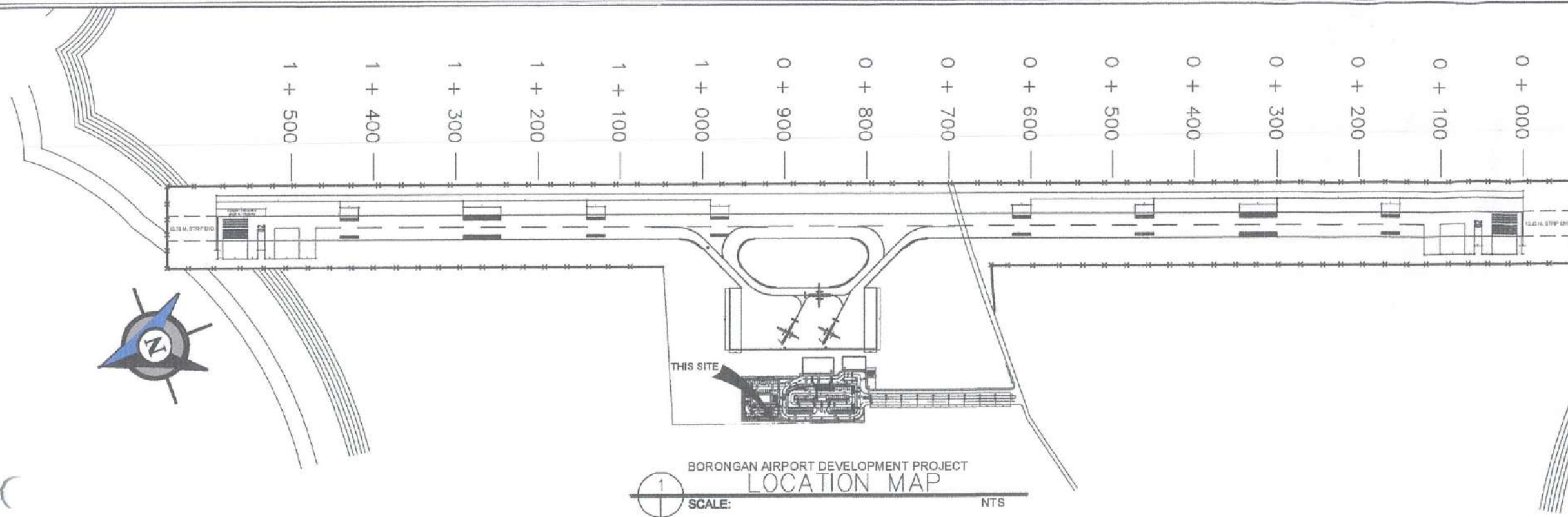
BORONGAN AIRPORT
DEVELOPMENT PROJECT
VPA AND ACCESS ROAD
LIGHTING

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	E 02





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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	10DD
DRAWN BY:	E.V.B. (janz27)
CHECKED BY:	E.J.D.J.R.

REVIEWED BY:

RAUL R. ORUCENA
Division Chief III, UDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANOLO DIONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

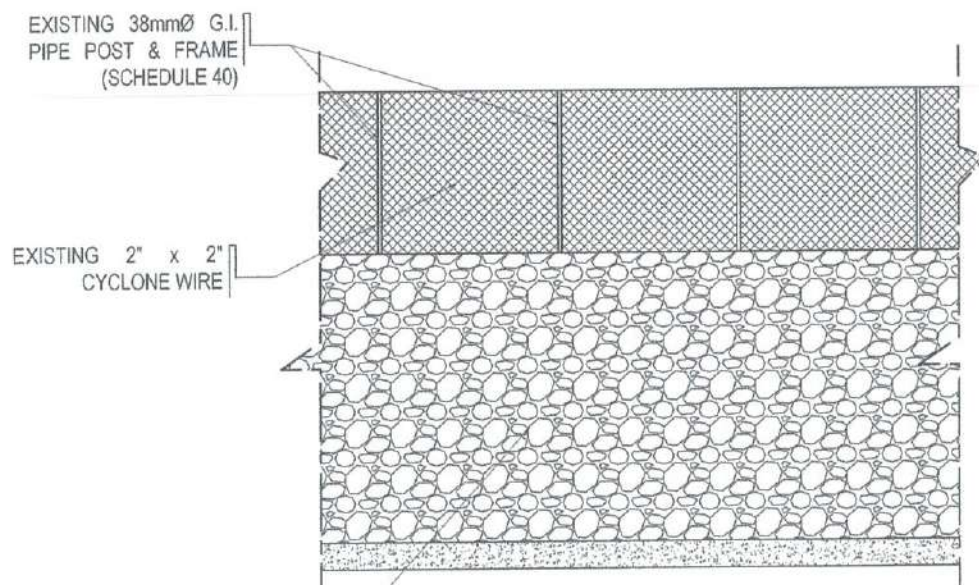
BORONGAN AIRPORT DEVELOPMENT PROJECT
(PERIMETER AND SECURITY FENCE AND SLOPE PROTECTION)

LOCATION:

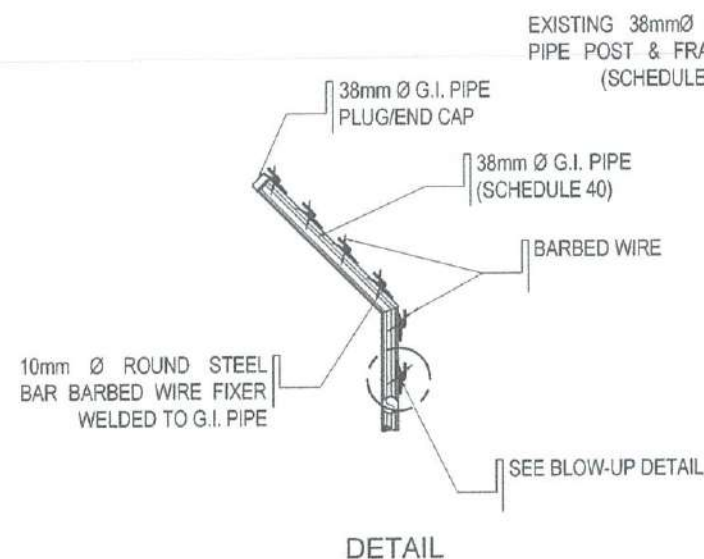
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

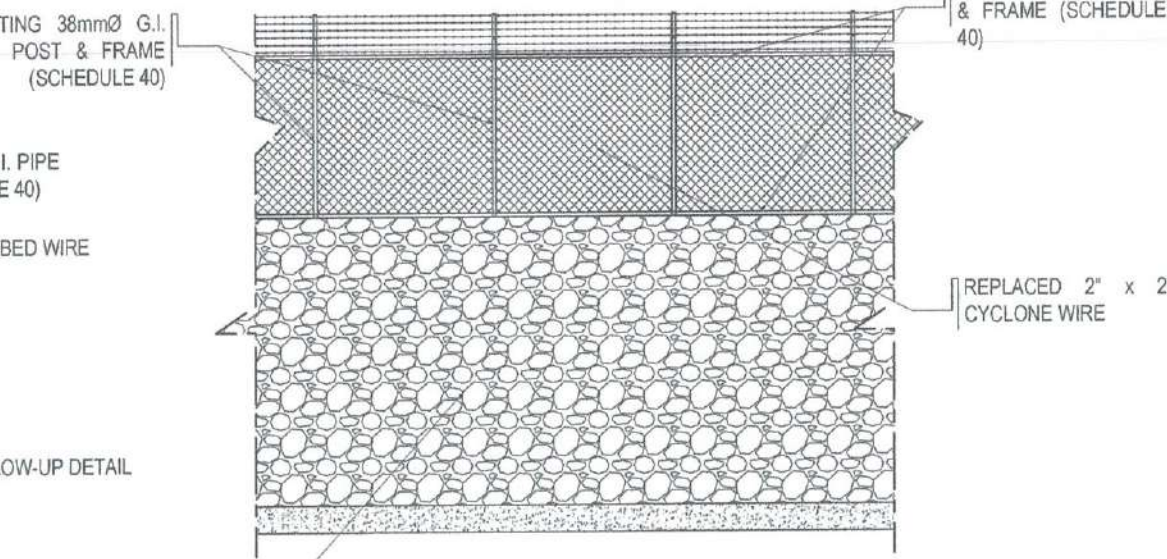
DRAWING SCALE:	SHEET NO:
AS SHOWN	38



EXISTING SECURITY FENCE
VERIFY SITE DEVELOPMENT PLAN (I-1)

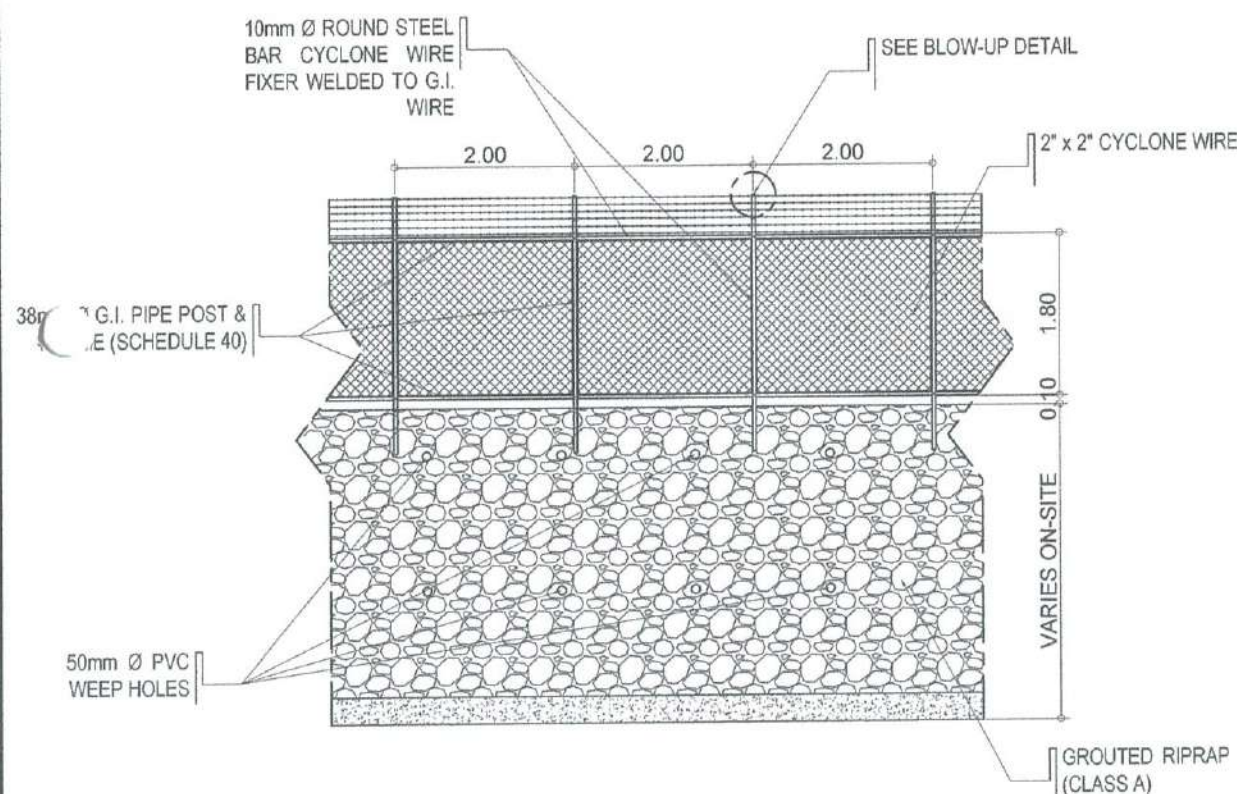


DETAIL

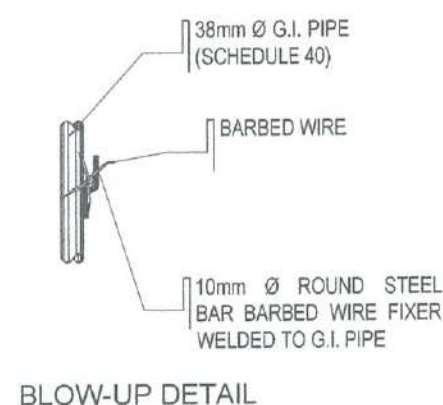


REPAIR OF EXISTING SECURITY FENCE
VERIFY SITE DEVELOPMENT PLAN (I-1)

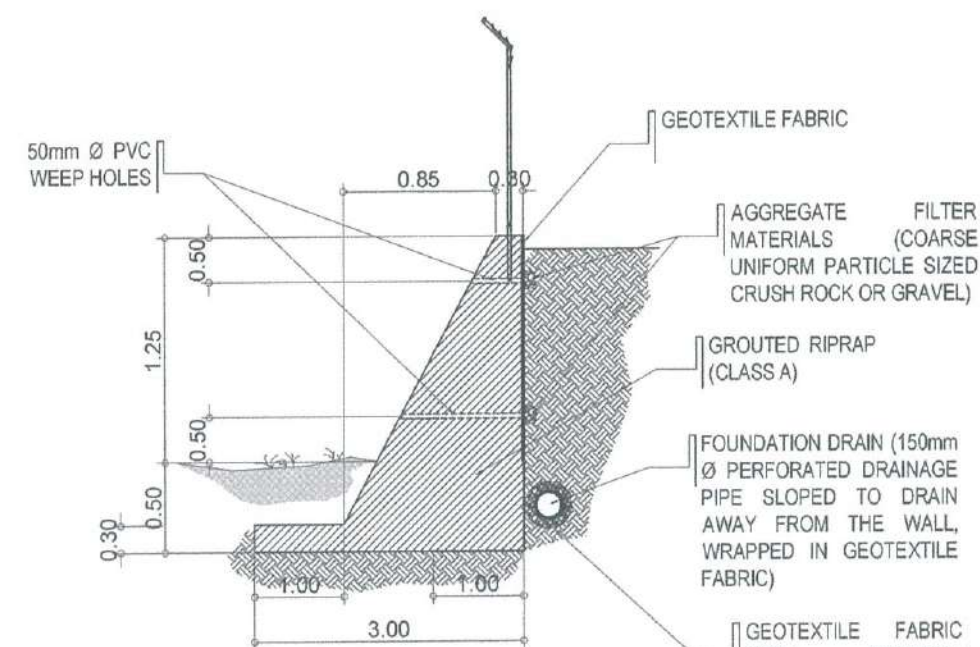
COMPLETION OF VEHICULAR PARKING AREA
EXISTING SECURITY FENCE DETAIL
SCALE: 1:50 MTRS



SECURITY FENCE with SLOPE PROTECTION
(ELEVATION)
VERIFY SITE DEVELOPMENT PLAN (A-1, B-1, C-1)

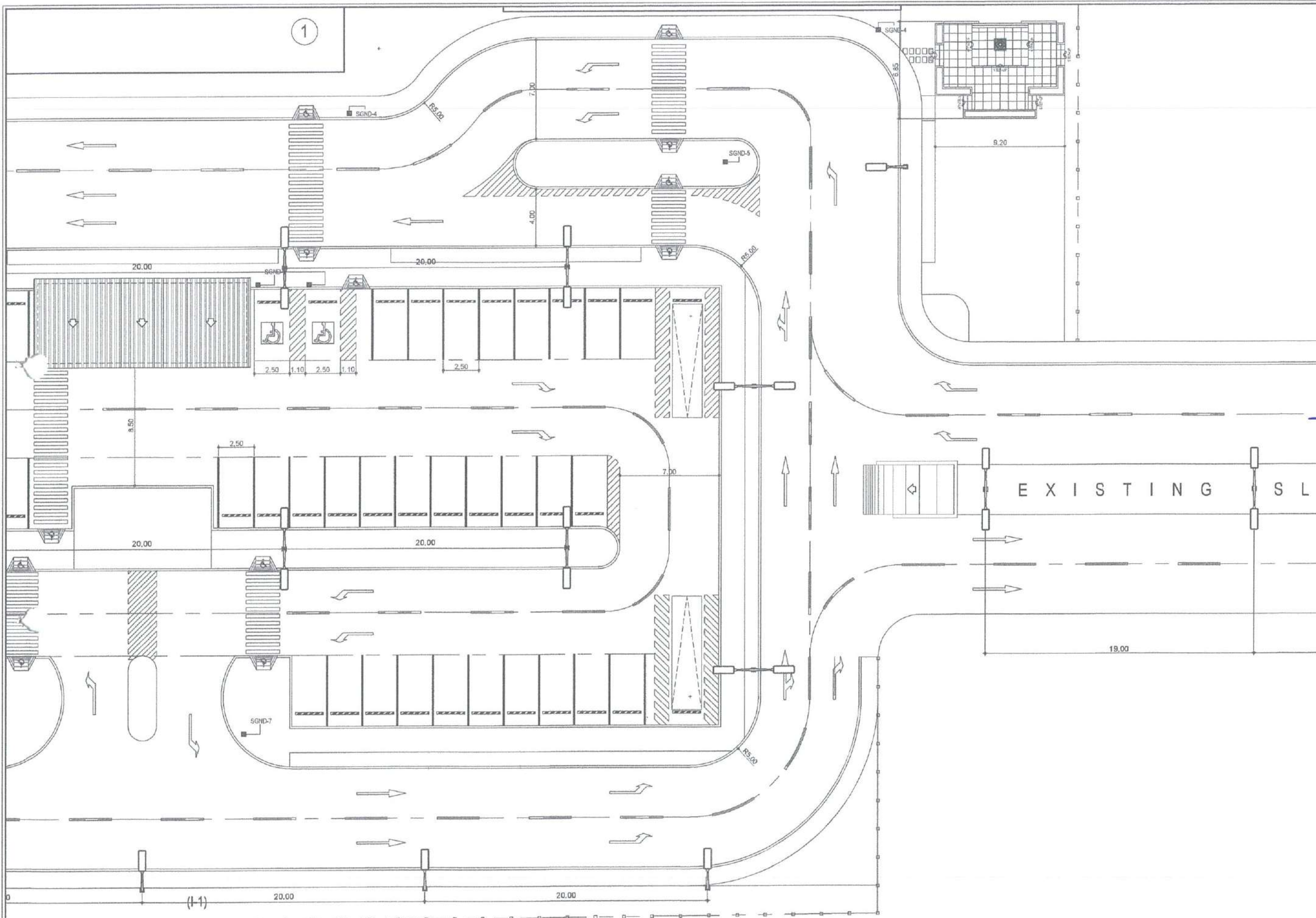



BLOW-UP DETAIL



SECURITY FENCE with SLOPE PROTECTION
(SECTION)
VERIFY SITE DEVELOPMENT PLAN (A-1, B-1, C-1)

COMPLETION OF VEHICULAR PARKING AREA
DETAIL OF SECURITY FENCE 01
SCALE: 1:50 MTRS





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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	RUJAJR
CHECKED BY:	EJDR

REVIEWED BY:


RAUL R. CRUZENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:


ARNEL F. BORLADO
Department Manager IIIAED-ADMS

RECOMMENDED APPROVAL:


LT COL VALENTINO A. DICENA, PAF (Ret)
Assistant Director General II/ADMS

APPROVED:


CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

BORONGAN AIRPORT
DEVELOPMENT PROJECT
VPA AND ACCESS ROAD
LIGHTING

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	E 04

COMPLETION OF VEHICULAR PARKING AREA
STREET LIGHTING LAYOUT (BLOW-UP B)
SCALE: 1:100 MTRS



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AERODROME DEVELOPMENT
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INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	RUAJR
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
VPA AND ACCESS ROAD
LIGHTING

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	E 05

A N D

19.00 19.00 19.00 19.00 19.00

COMPLETION OF VEHICULAR PARKING AREA
STREET LIGHTING LAYOUT (BLOW-UP C)
SCALE: 1:100 MTRS

19.00 19.00 19.00

COMPLETION OF VEHICULAR PARKING AREA
STREET LIGHTING LAYOUT (BLOW-UP D)
SCALE: 1:100 MTRS



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AERODROME DEVELOPMENT
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INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (janz27)
CHECKED BY:	EJOUR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

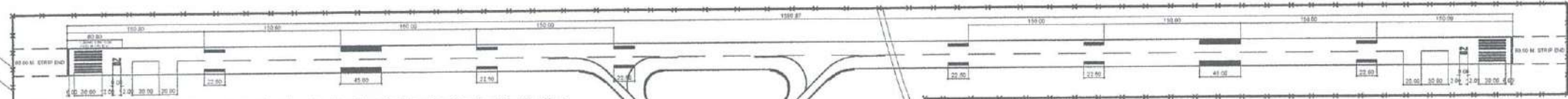
PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
PERIMETER AND SECURITY FENCE
AND SLOPE PROTECTION

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	08

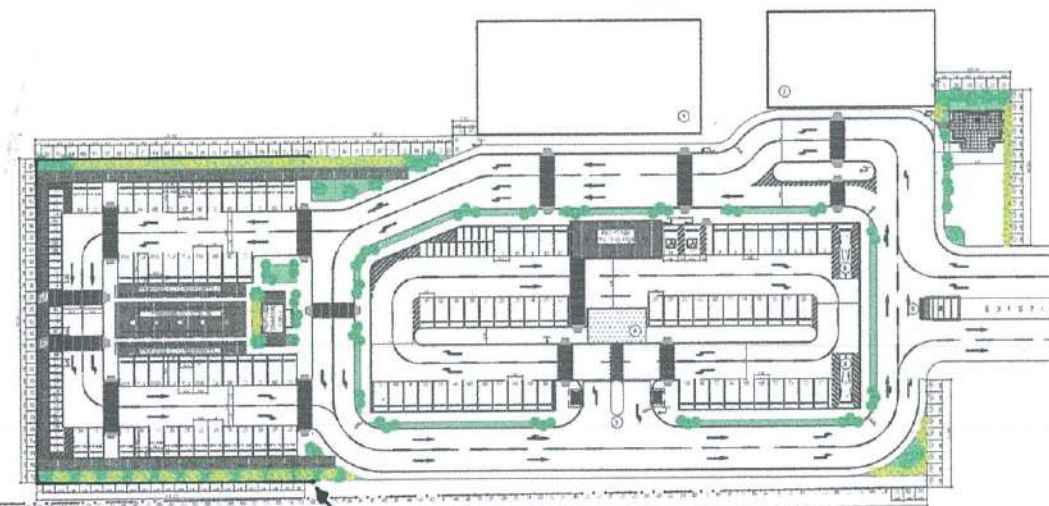
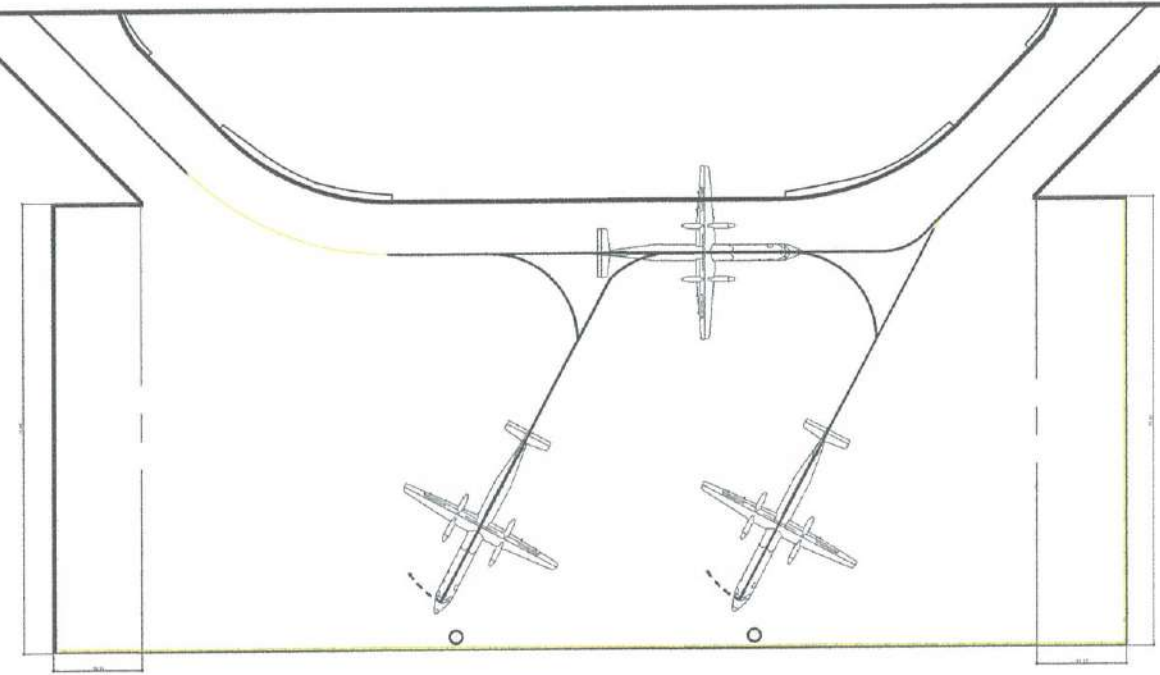
0 + 000
0 + 100
0 + 200
0 + 300
0 + 400
0 + 500
0 + 600
0 + 700
0 + 800
0 + 900
1 + 000
1 + 100
1 + 200
1 + 300
1 + 400
1 + 500



THIS SITE
THIS SITE

BORONGAN AIRPORT DEVELOPMENT PROJECT
LOCATION MAP

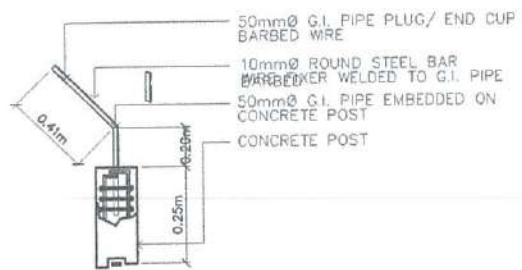
SCALE: 1" = 100' NTS



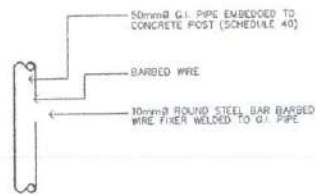
SLOPE PROTECTION

PERIMETER AND SECURITY FENCE
PROPOSED PERIMETER FENCE

SCALE: 1" = 100' NTS



**DETAIL OF G.I. PIPE
EMBEDDED ON
CONCRETE POST**

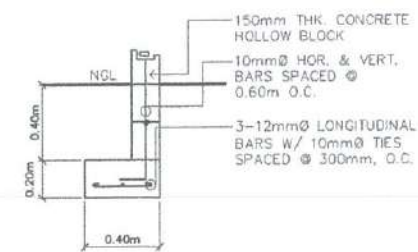


**DETAIL OF G.I. PIPE
EMBEDDED ON
CONCRETE POST**

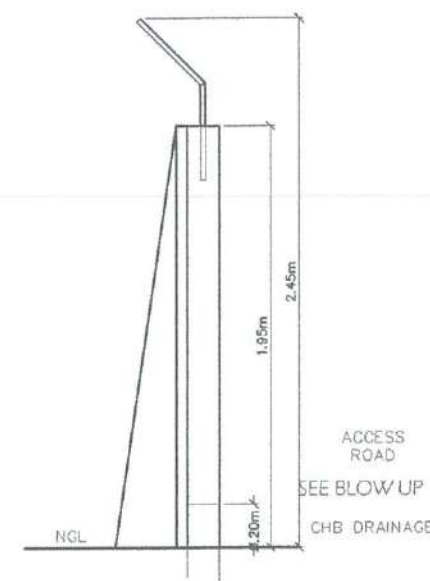


NOTE:

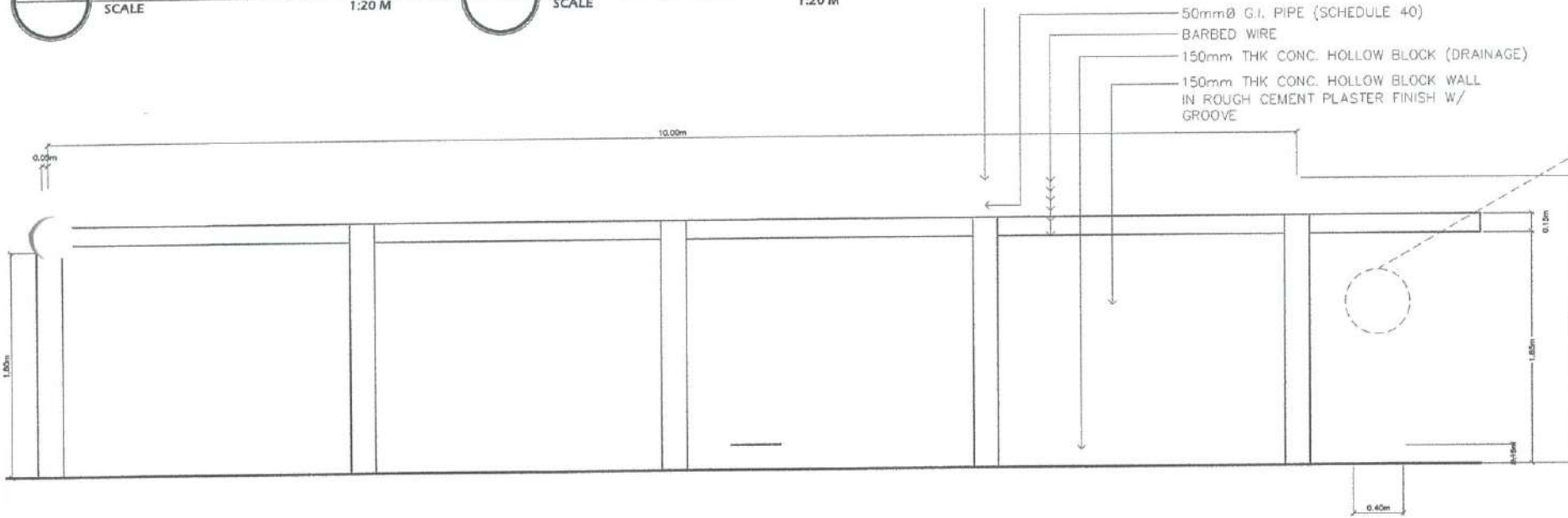
- CHB WALL
SHALL BE ROUGH CEMENT PLASTER FINISH
WITH GROOVE (BOTH FACE).
- CONCRETE COLUMNS
SHALL BE CEMENT PLASTERED FINISH.
- G.I. PIPE
SHALL BE SCHEDULE 40.
- PAINTINGS
ALL G.I. PIPES SHALL BE PAINTED WITH RED
LEAD OXIDE, RED LEAD, OR EPOXY PRIMER AS
SPECIFIED BEFORE FINAL COAT IS APPLIED.



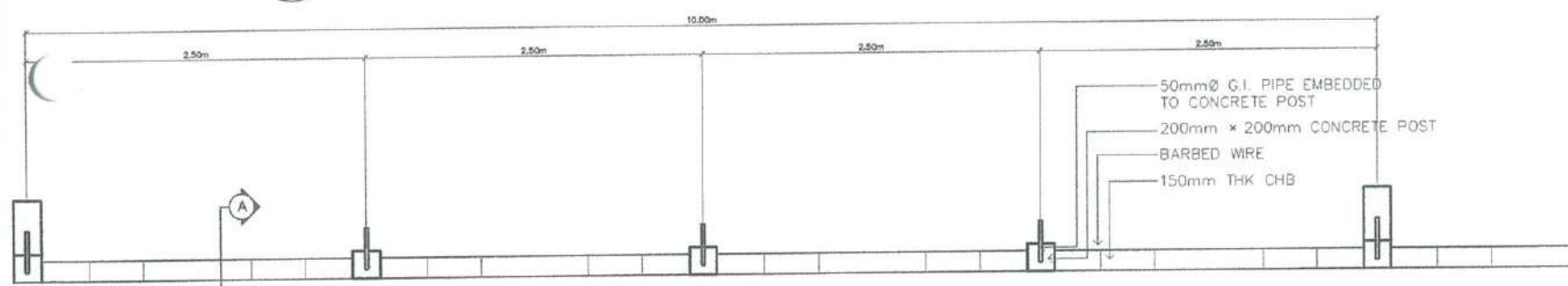
**WALL FOOTING
DETAIL**



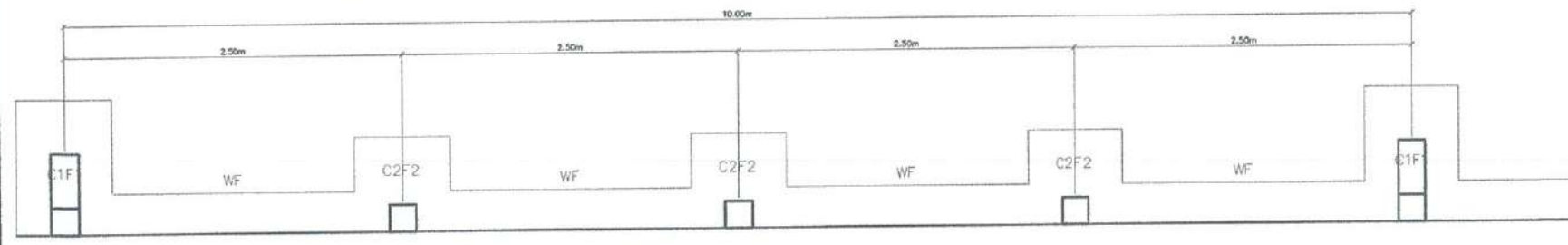
SECTION THRU "A"



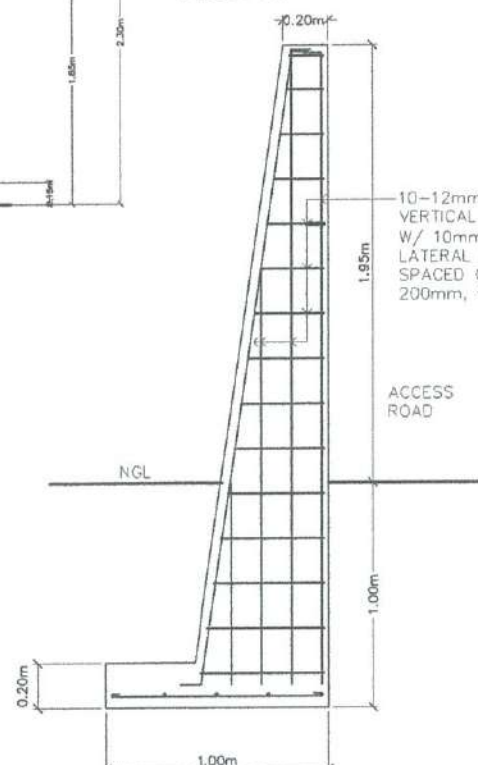
FRONT ELEVATION OF CHB FENCE WITH BARBED WIRE



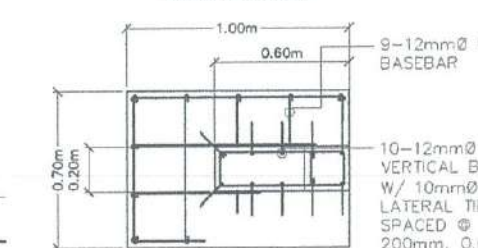
PLAN OF CHB FENCE WITH BARBED WIRE



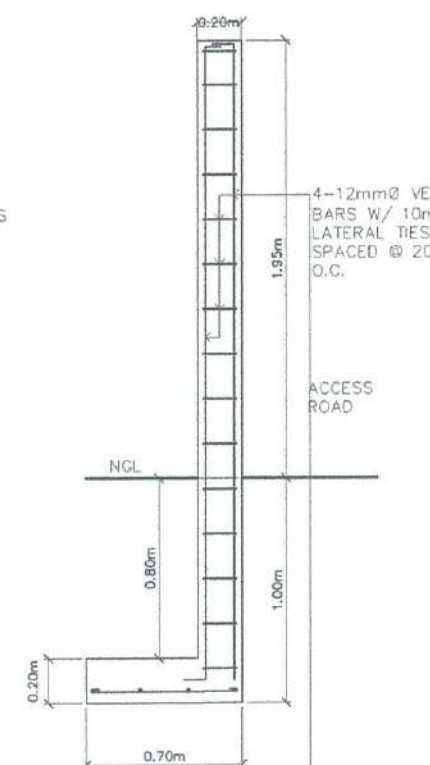
FOUNDATION PLAN



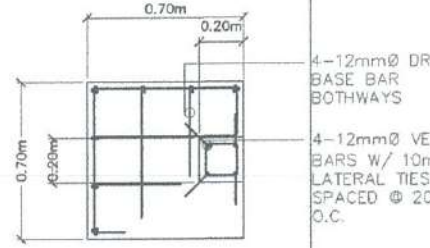
SECTION



DETAIL OF C1F1



SECTION



DETAIL OF C2F2



REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
RAIA ROAD, 1200 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:	E.V.B (jagz27)
CHECKED BY:	EJOUR

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

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

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

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
PERIMETER AND SECURITY
FENCE AND SLOPE PROTECTION

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	40

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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (janz27)
CHECKED BY:	EJOUR
REVIEWED BY:	

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

ARNEL F. BORLADO
Department Manager III, AED-ADMS

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

CAPTAIN MANUEL ANTONIO L. TAMAYO
Brigadier General

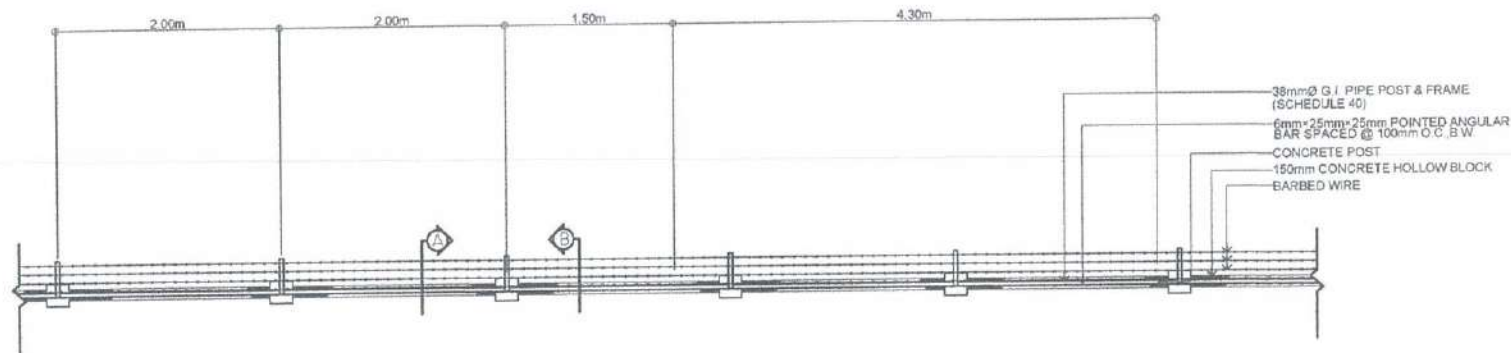
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT DEVELOPMENT PROJECT
PERIMETER AND SECURITY FENCE AND SLOPE PROTECTION

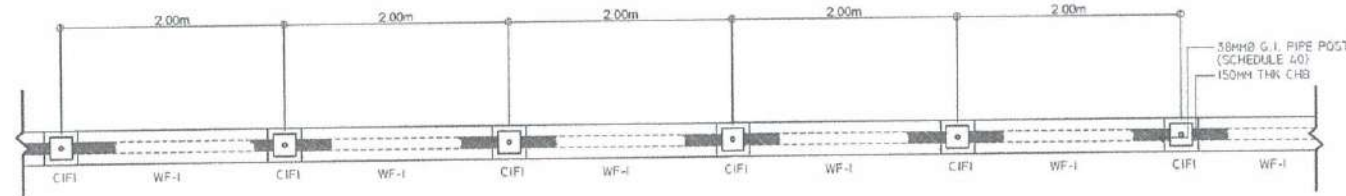
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

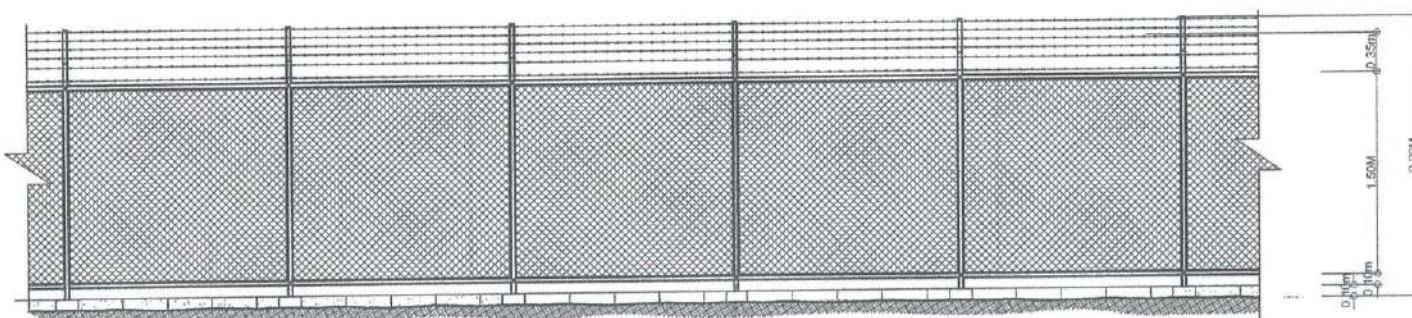
DRAWING SCALE:	SHEET NO:
AS SHOWN	39



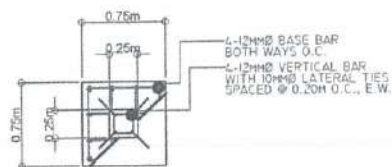
S-2 PLAN OF SECURITY FENCE 02
AS-AS-1 SCALE 1:40 MTS



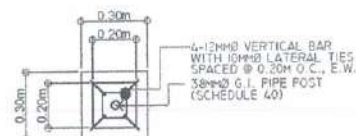
S-3 FOUNDATION PLAN
AS-AS-1 SCALE 1:40 MTS



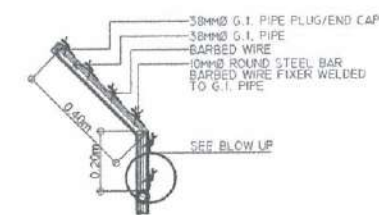
S-4 ELEVATION OF SECURITY FENCE
AS-AS-1 SCALE 1:40 MTS



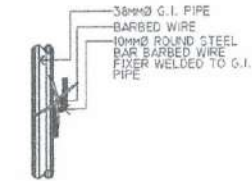
S-5 DET. PLAN OF C2F2
AS-AS-1 SCALE 1:40 MTS



S-6 DET. PLAN OF C1F1
AS-AS-1 SCALE 1:20 MTS

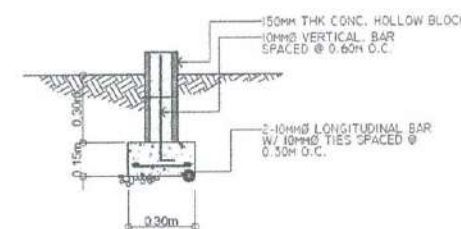


DETAIL

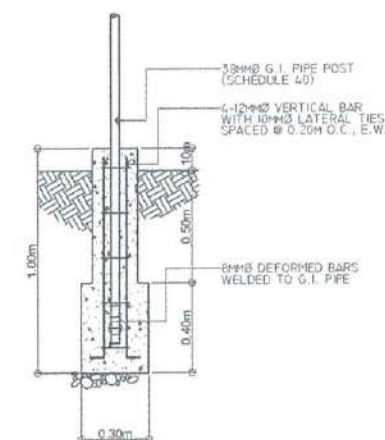


BLOW UP

S-9 DET. ELEV. OF BARBED WIRE FIXER WELDED TO G.I. PIPE
AS-AS-1 SCALE 1:15 MTS



S-7 DET. ELEV. OF WF-1
AS-AS-1 SCALE 1:20 MTS



S-8 DET. SECTION OF C1F1
AS-AS-1 SCALE 1:20 MTS

S-1 DETAIL OF SECURITY FENCE 02
AS-AS-1 SCALE 1:40 MTS


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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	10DD
DRAWN BY:	E.V.B (janz27)
CHECKED BY:	EJDJR

REVIEWED BY:



RAUL R. CRUCENA
Division Chief III, 10DD - ADMS

SUBMITTED BY:




ARNEL F. BORLADO
Department Manager IIIAED-ADMS

RECOMMENDED APPROVAL:



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

APPROVED:



CAPTAIN MANUEL ANTONIO L. TAMAYO
Colonel General

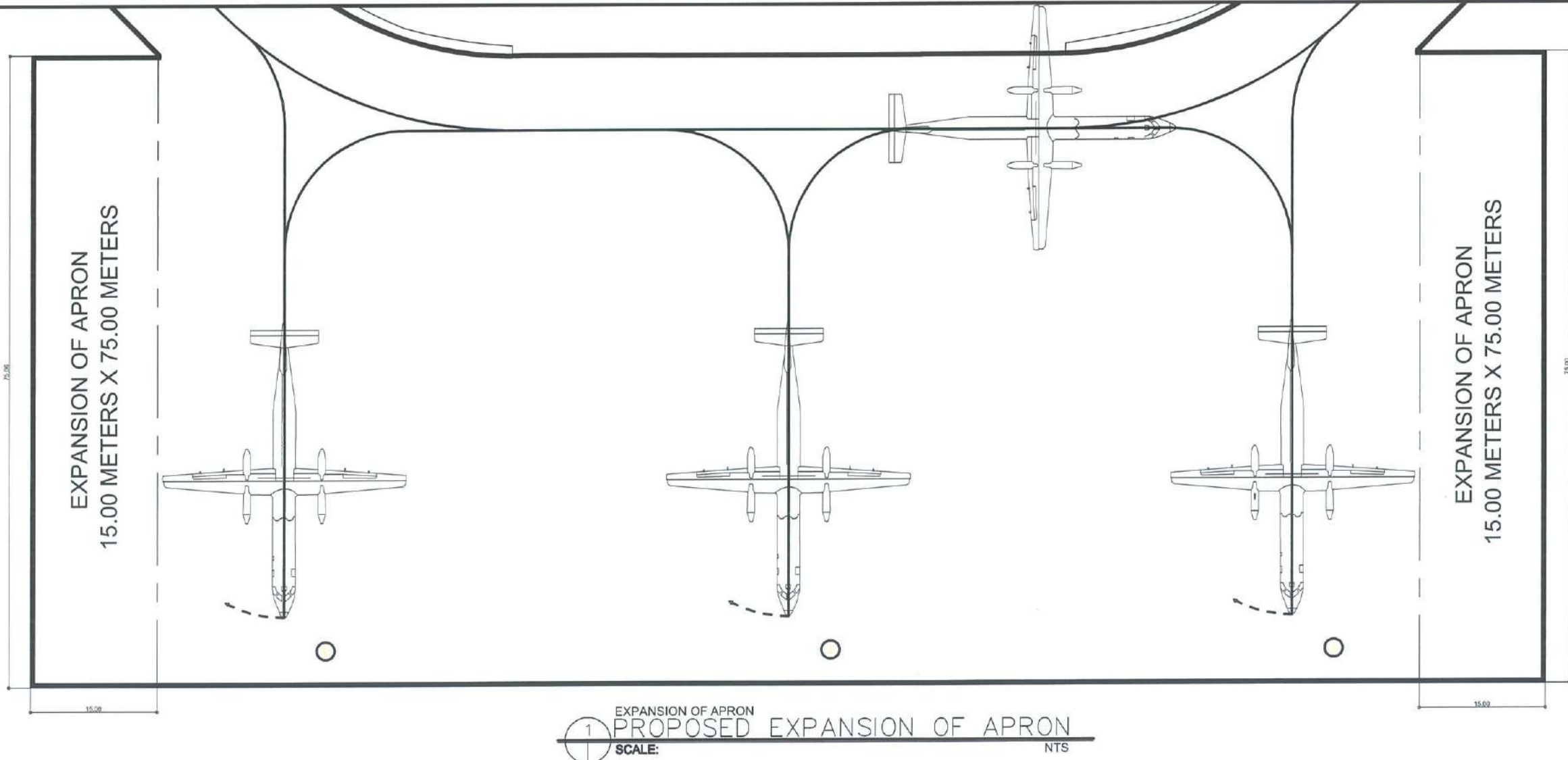
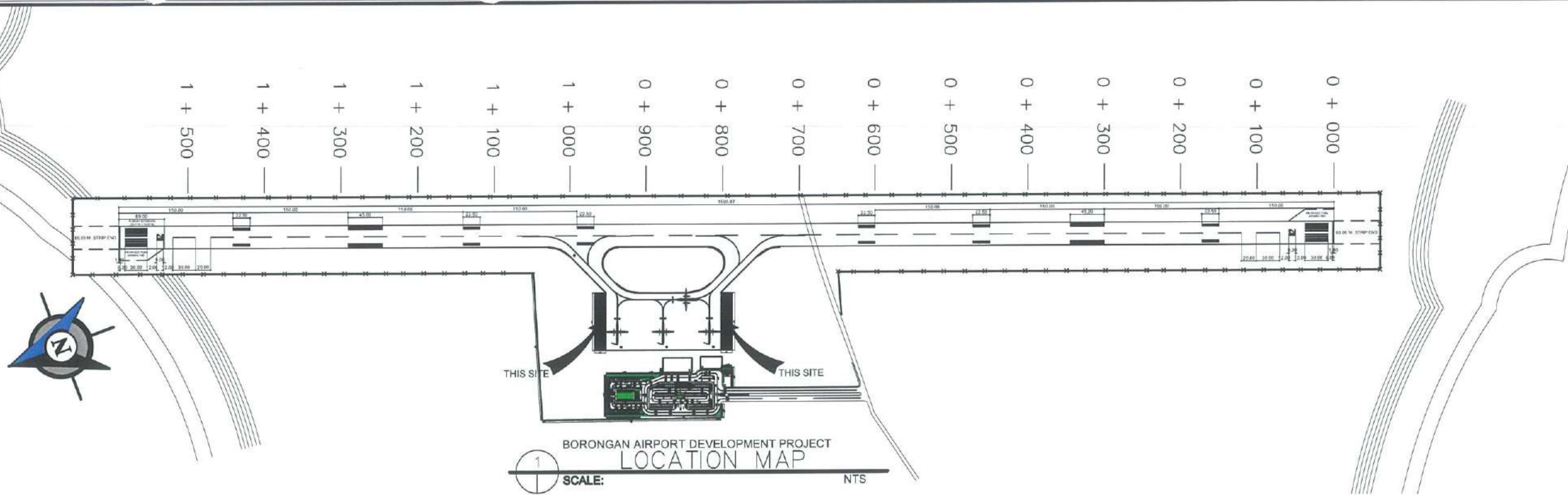
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT DEVELOPMENT PROJECT
EXPANSION OF APRON

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	01





REPUBLIC OF THE PHILIPPINES
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
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B / L.D.
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. CRUZENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

LT COL. VALERIANO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

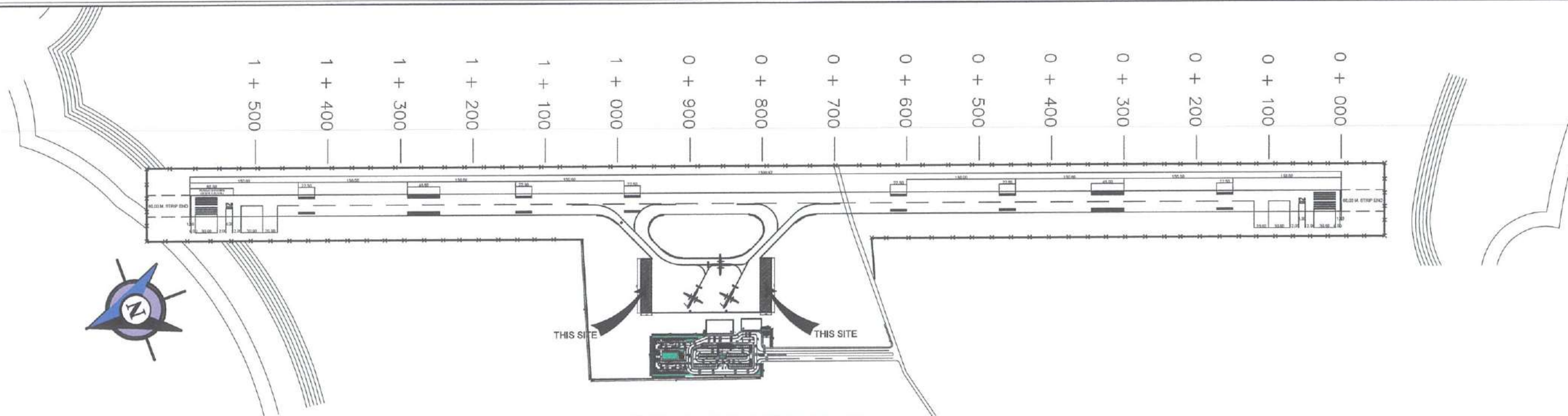
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
EXPANSION OF APRON

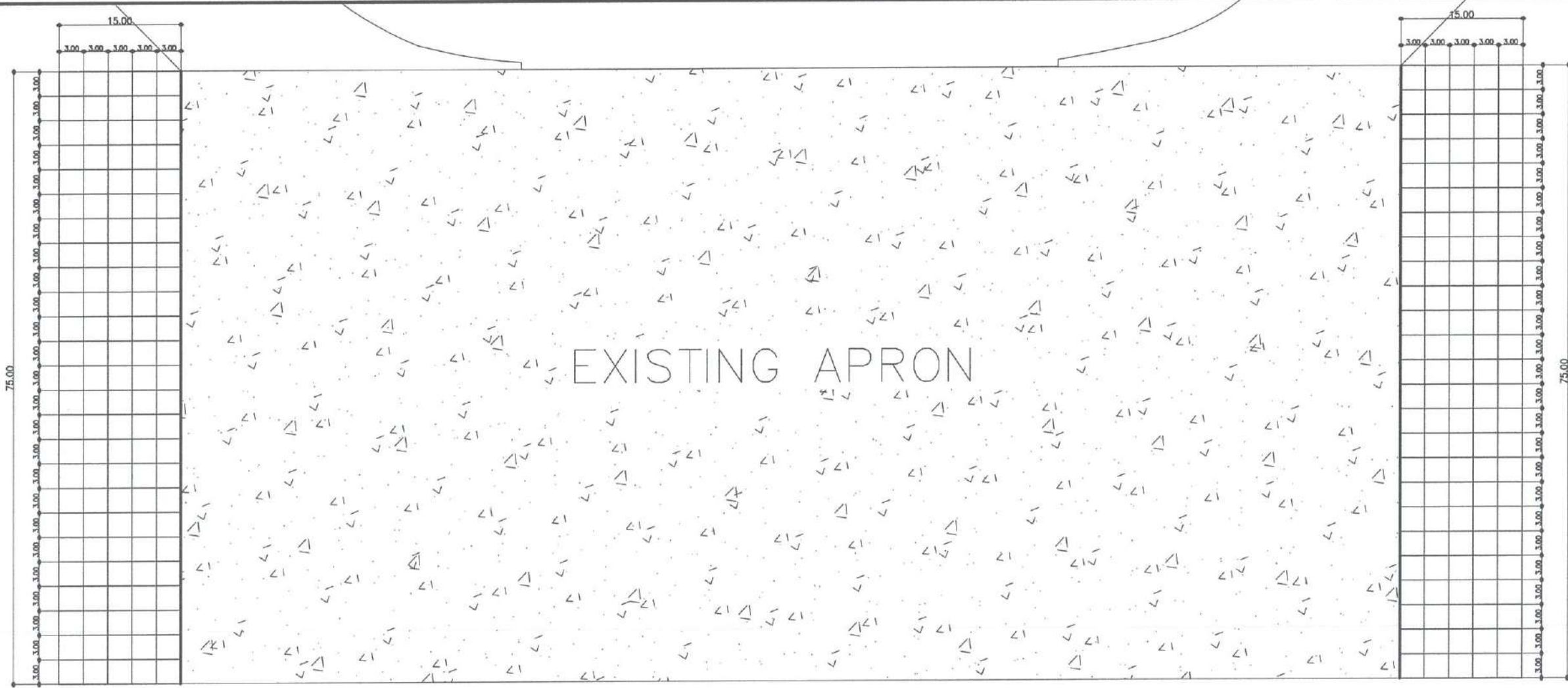
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	02



BORONGAN AIRPORT DEVELOPMENT PROJECT
LOCATION MAP
SCALE: 1" = 100' NTS



EXPANSION OF APRON
APRON AREA BLOCKING PLAN
SCALE: 1" = 100' NTS



REPUBLIC OF THE PHILIPPINES
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NAIA ROAD, 1399 PASAY CITY

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AERODROME DEVELOPMENT
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INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	1000
DRAWN BY:	EVB / L.O.
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. GRUCENA
Division Chief III, ADD-ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN DANIEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

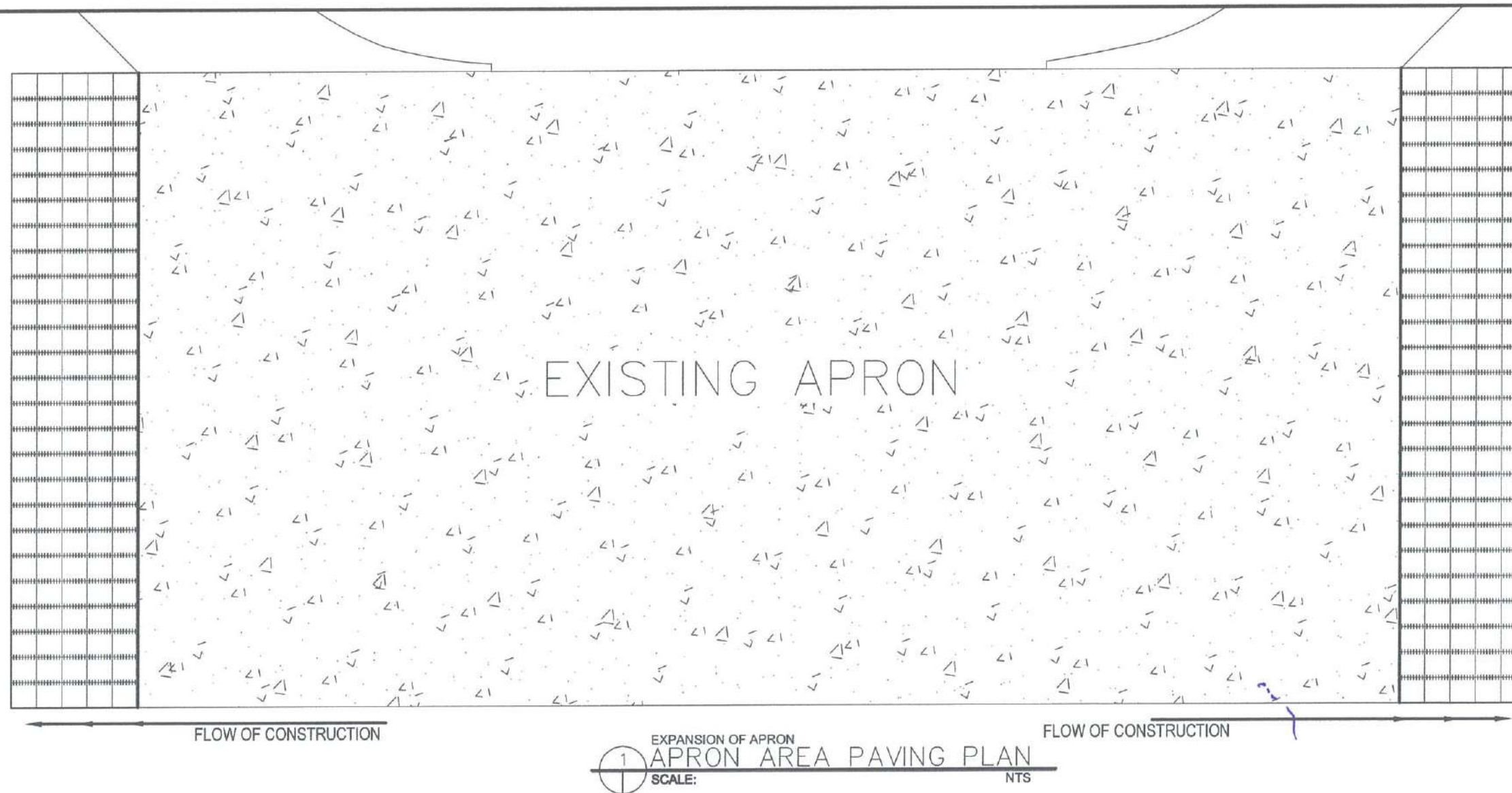
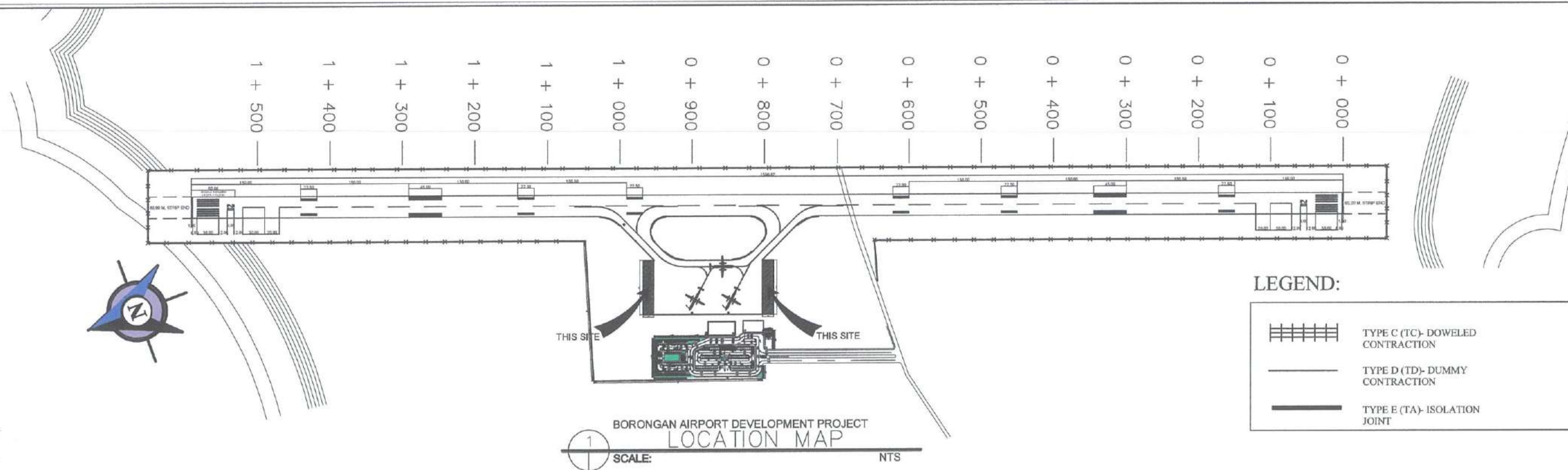
BORONGAN AIRPORT
DEVELOPMENT PROJECT
EXPANSION OF APRON

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO.
AS SHOWN	03





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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
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (jmgz27)
CHECKED BY:	E.J.D.R.

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

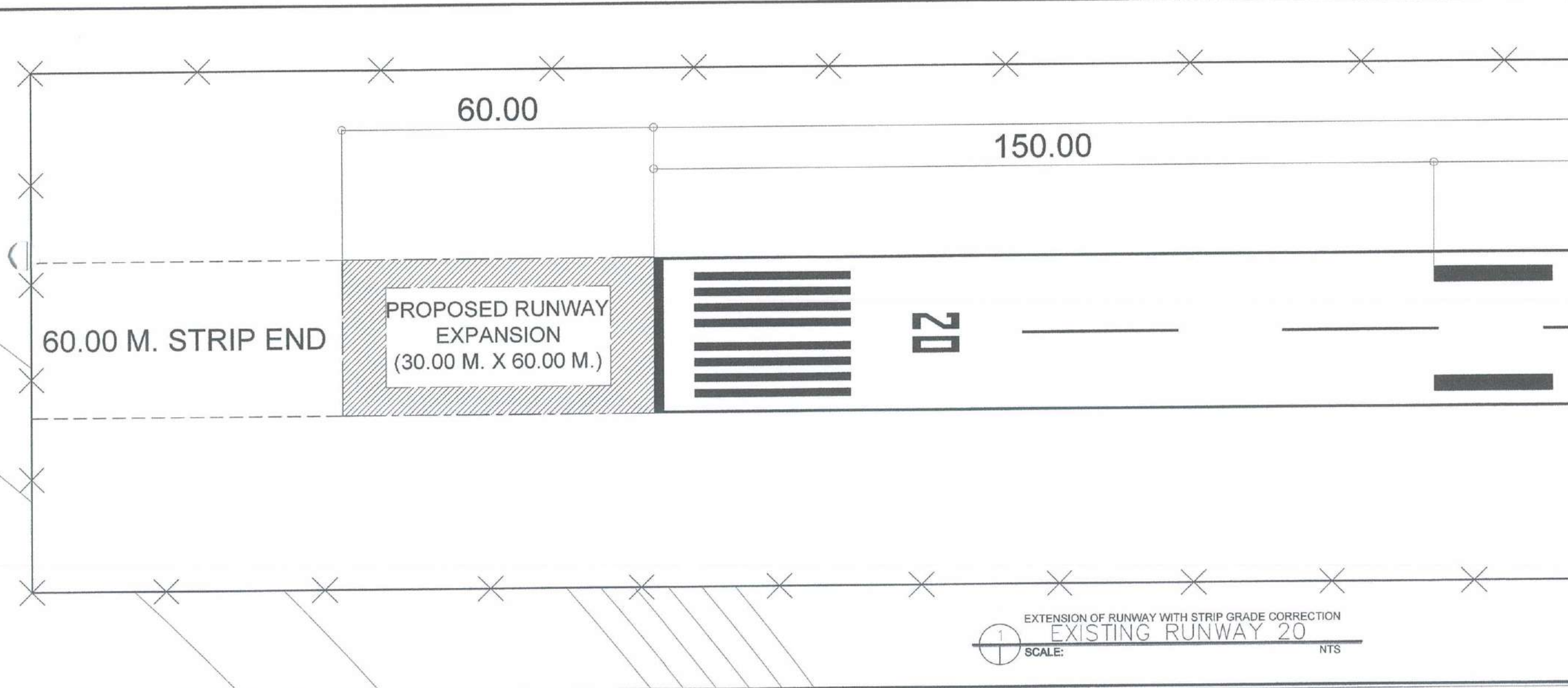
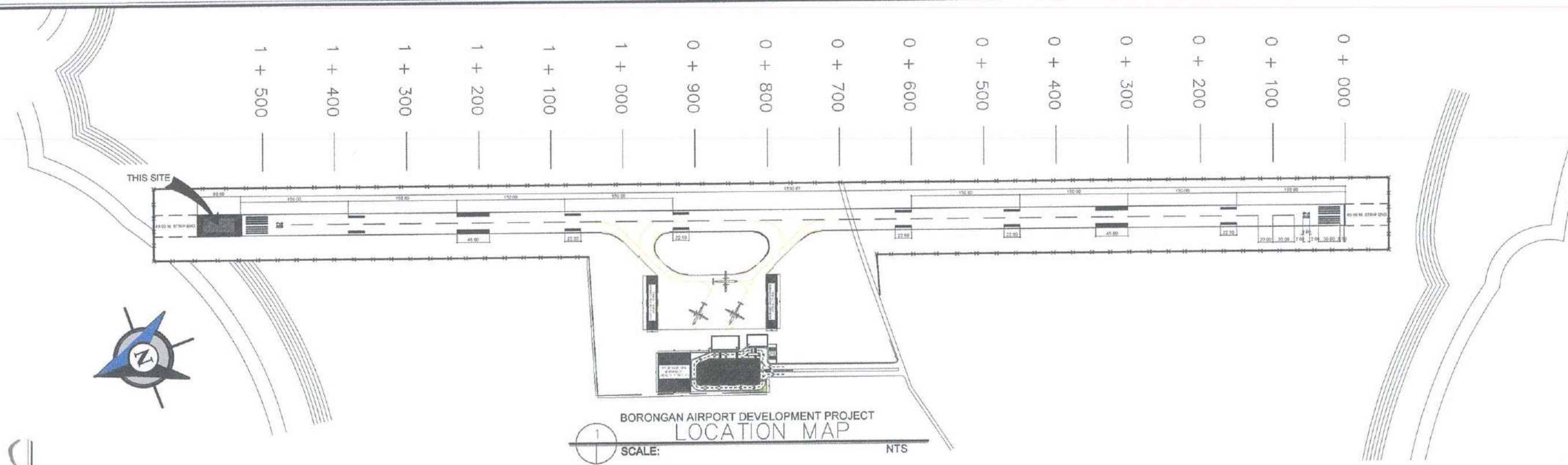
BORONGAN AIRPORT
DEVELOPMENT PROJECT
EXTENSION OF RUNWAY

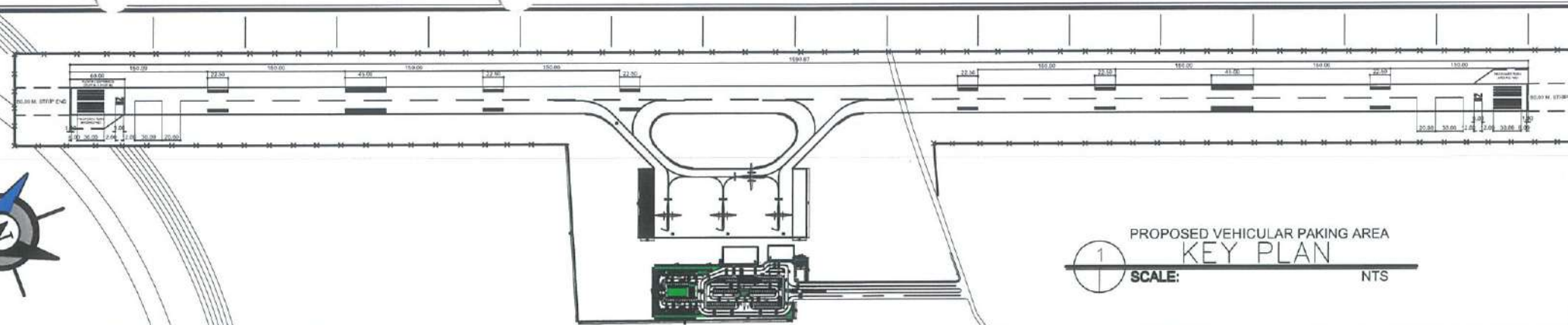
LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	04






PROPOSED VEHICULAR PARKING AREA
KEY PLAN
SCALE: NTS


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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY: IDDD	
DRAWN BY: E.V.B (janz27)	
CHECKED BY: EJDJR	

REVIEWED BY:

RAUL R. CRUZENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MARIBEL ANTONIO L. TAMAYO
Director General

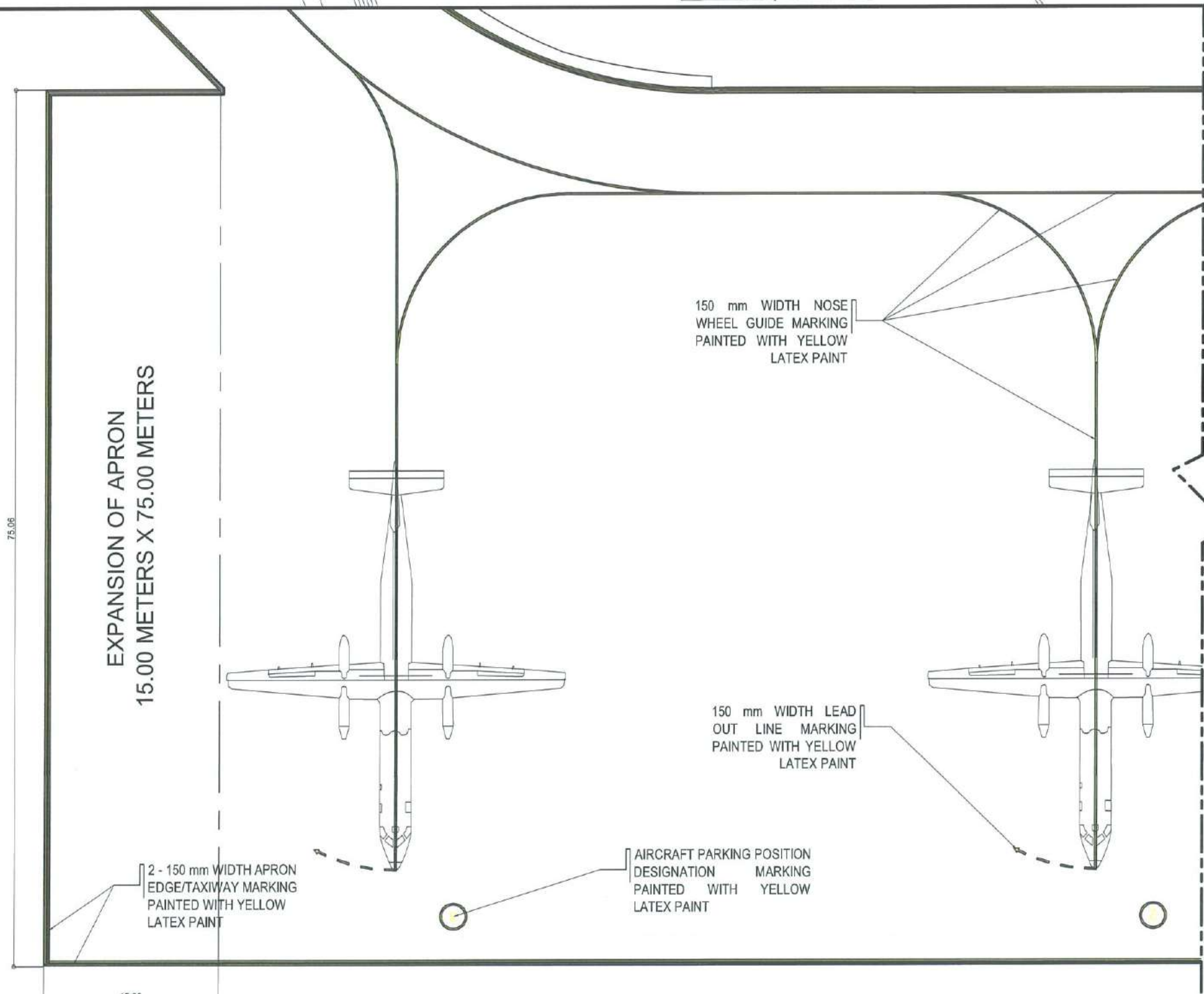
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
EXPANSION OF APRON

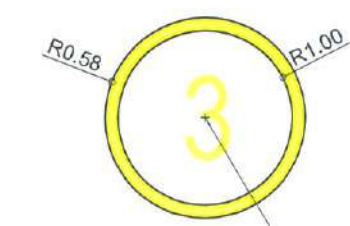
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	07



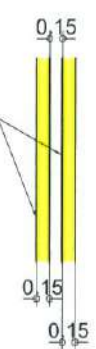
EXPANSION OF APRON
DETAILED A PLAN
SCALE: 1:250 MTRS



AIRCRAFT PARKING POSITION
DESIGNATION MARKING
BLOW-UP DETAIL

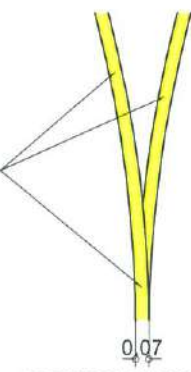
AIRCRAFT PARKING POSITION
DESIGNATION MARKING
PAINTED WITH YELLOW
LATEX PAINT

2 - 150 mm WIDTH APRON
EDGE/TAXIWAY MARKING
PAINTED WITH YELLOW
LATEX PAINT



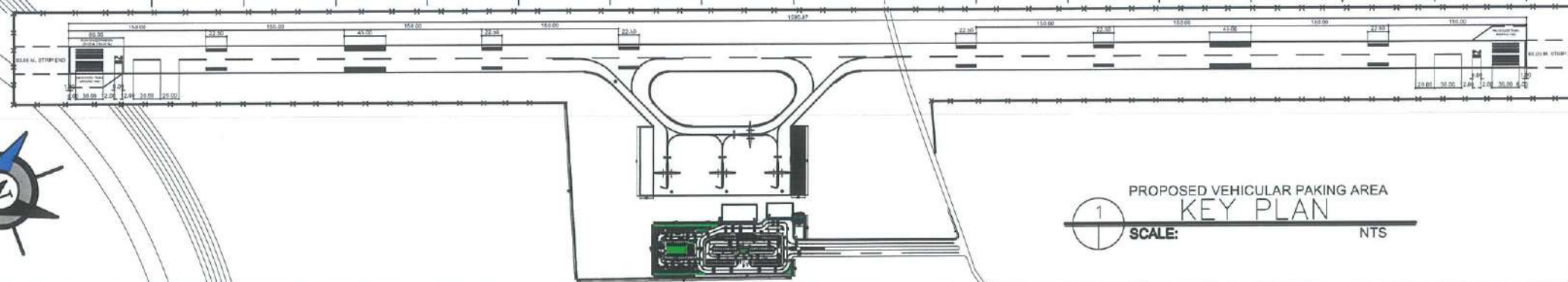
APRON EDGE/TAXIWAY MARKING
BLOW-UP DETAIL

150 mm WIDTH NOSE
WHEEL GUIDE MARKING
PAINTED WITH YELLOW
LATEX PAINT

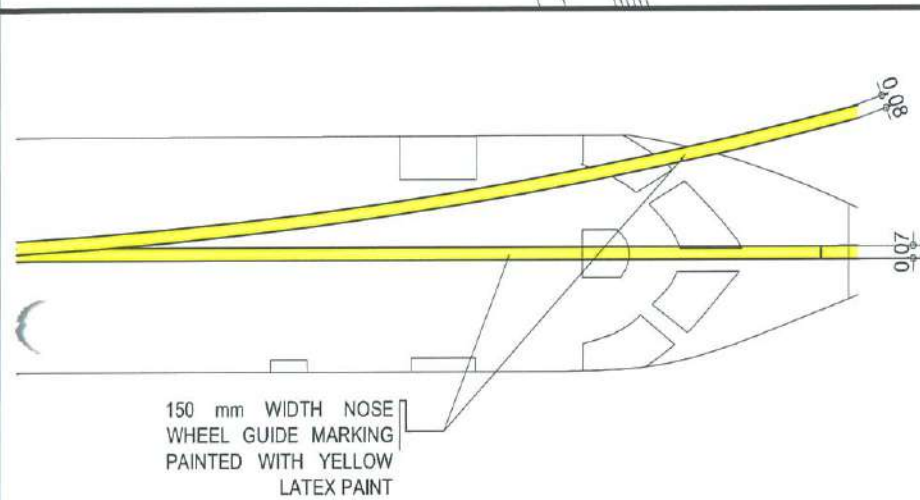


NOSE WHEEL GUIDE MARKING
BLOW-UP DETAIL

EXPANSION OF APRON
BLOW-UP APRON MARKING
SCALE: 1:50 MTRS

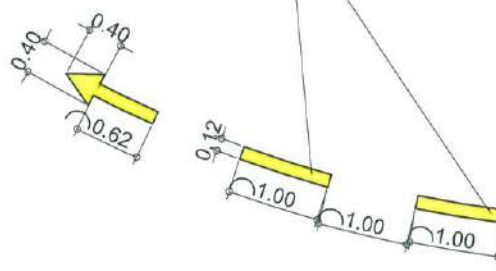


PROPOSED VEHICULAR PARKING AREA
KEY PLAN
SCALE: 1 NTS

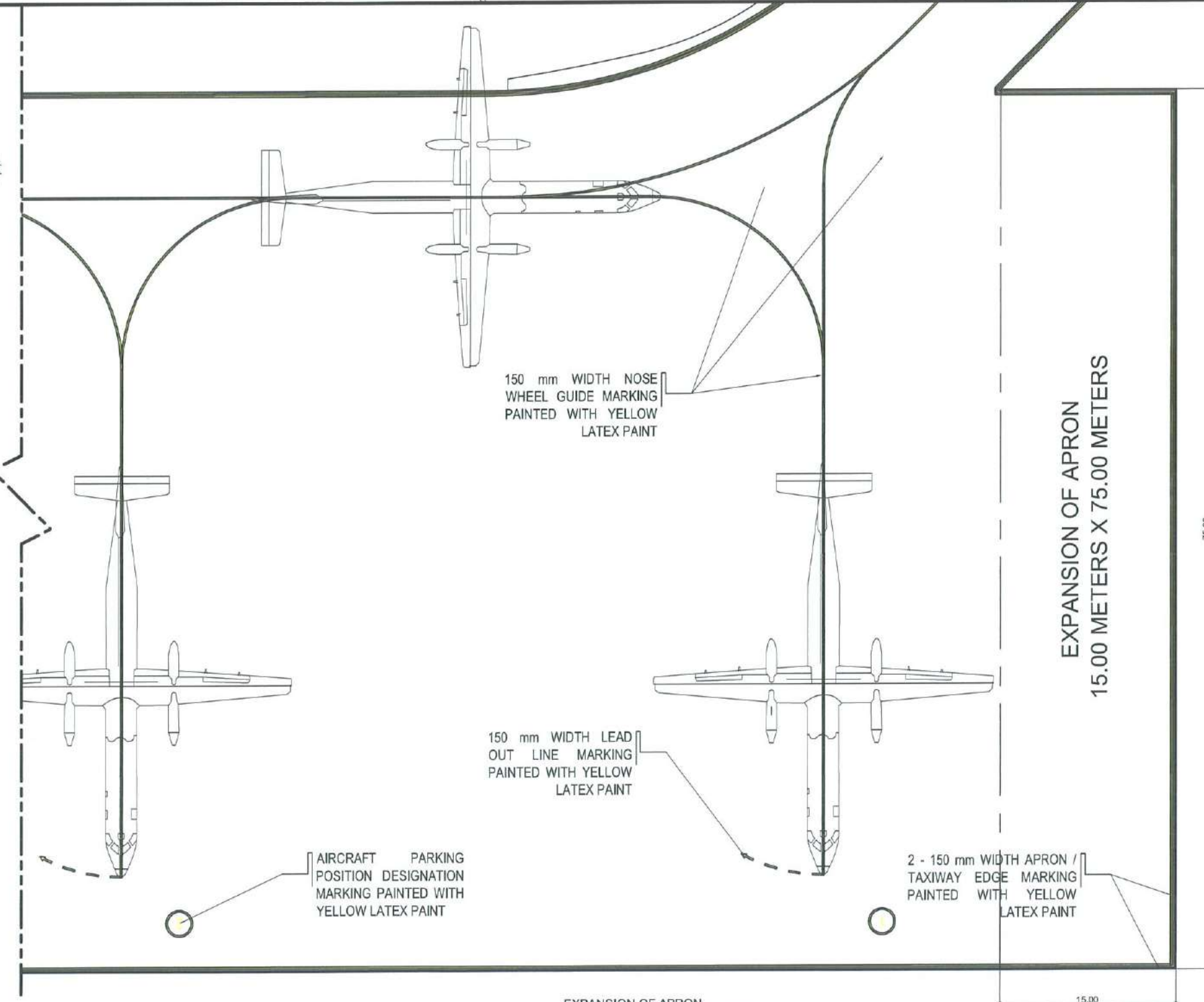


NOSE WHEEL GUIDE MARKING
BLOW-UP DETAIL

150 mm WIDTH LEAD
OUT LINE MARKING
PAINTED WITH YELLOW
LATEX PAINT



LEAD OUT LINE MARKING
BLOW-UP DETAIL



150 mm WIDTH LEAD
OUT LINE MARKING
PAINTED WITH YELLOW
LATEX PAINT

AIRCRAFT PARKING
POSITION DESIGNATION
MARKING PAINTED WITH
YELLOW LATEX PAINT

2 - 150 mm WIDTH APRON /
TAXIWAY EDGE MARKING
PAINTED WITH YELLOW
LATEX PAINT

EXPANSION OF APRON
15.00 METERS X 75.00 METERS

EXPANSION OF APRON
BLOW-UP APRON MARKING
SCALE: 1:150 MTRS

EXPANSION OF APRON
DETAILED B PLAN
SCALE: 1:250 MTRS

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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGNED BY:	INITIAL / DATE
DRAWN BY:	
CHECKED BY:	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD, ADMS

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

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MARCOS ANTONIO L. TAMAYO
Director General

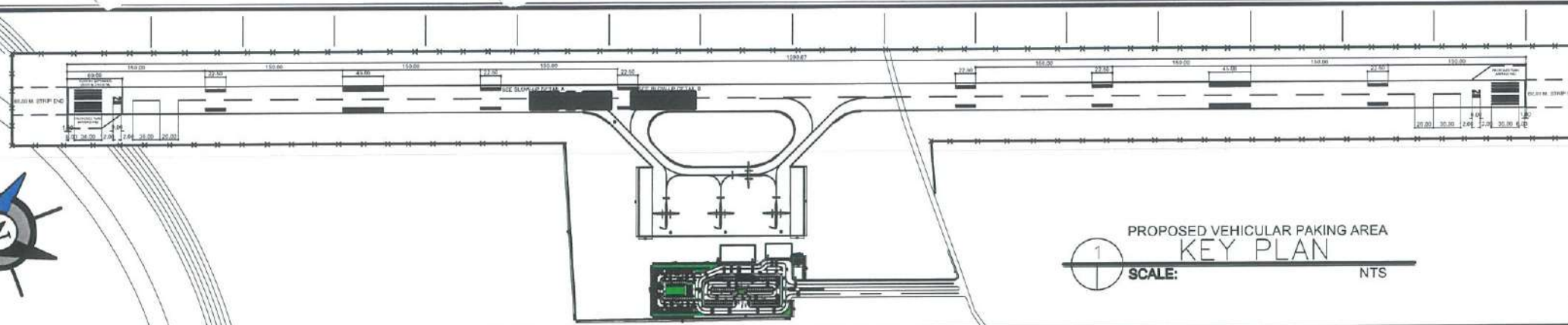
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
EXPANSION OF APRON

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE: SHEET NO.
AS SHOWN 03



PROPOSED VEHICULAR PARKING AREA
KEY PLAN
SCALE: NTS

SIDE STRIP MARKING/
RUNWAY EDGE MARKING
(SEE DETAILS ON
RUNWAY MARKINGS)

450 mm WIDTH x 30,000
mm LENGTH RUNWAY
CENTERLINE MARKING
PAINTED WITH WHITE
LATEX PAINT

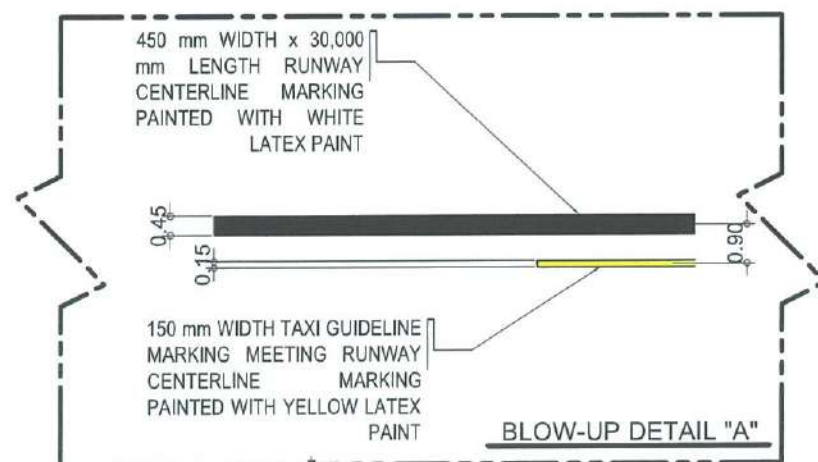
RUNWAY TOUCHDOWN
ZONE (SEE DETAILS ON
RUNWAY MARKINGS)

150 mm WIDTH TAXI GUIDELINE
MARKING MEETING RUNWAY
CENTERLINE MARKING
PAINTED WITH YELLOW LATEX
PAINT

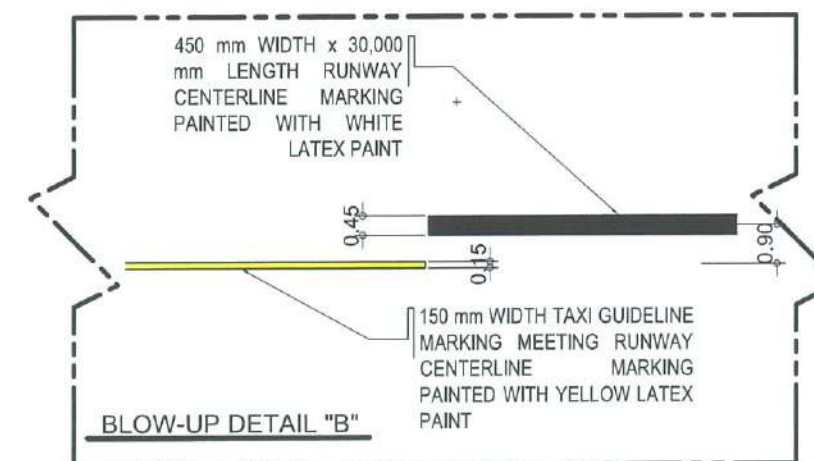
2 - 150 mm WIDTH APRON /
TAXIWAY EDGE MARKING
PAINTED WITH YELLOW
LATEX PAINT

2 - 150 mm WIDTH APRON /
TAXIWAY EDGE MARKING
PAINTED WITH YELLOW
LATEX PAINT

150 mm WIDTH TAXI GUIDELINE
MARKING MEETING RUNWAY
CENTERLINE MARKING
PAINTED WITH YELLOW LATEX
PAINT



TAXI GUIDELINE MARKING
MEETING RUNWAY CENTERLINE MARKING
TO RUNWAY 20



TAXI GUIDELINE MARKING
MEETING RUNWAY CENTERLINE MARKING
TO RUNWAY 02

NORTHEAST TAXI GUIDELINE MARKING MEETING RUNWAY CENTERLINE
APRON MARKING DETAIL
SCALE: 1:100 MTRS



REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NASA ROAD, 1368 PASAY CITY

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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	1000
DRAWN BY:	E.V.B (jmgz27)
CHECKED BY:	E.J.D.R

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:
ARNEL F. BORLADO
Department Manager IIIAED-ADMS

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

APPROVED:
CAPTAIN MARCO ANTONIO L. TAMAYO
Director General

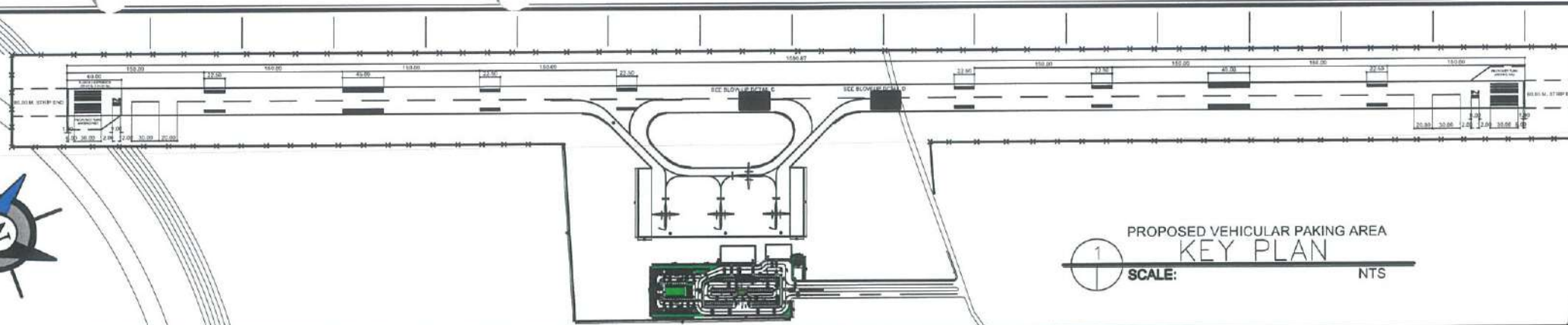
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	09



PROPOSED VEHICULAR PARKING AREA
KEY PLAN
SCALE: 1: NTS

SIDE STRIP MARKING/
RUNWAY EDGE MARKING

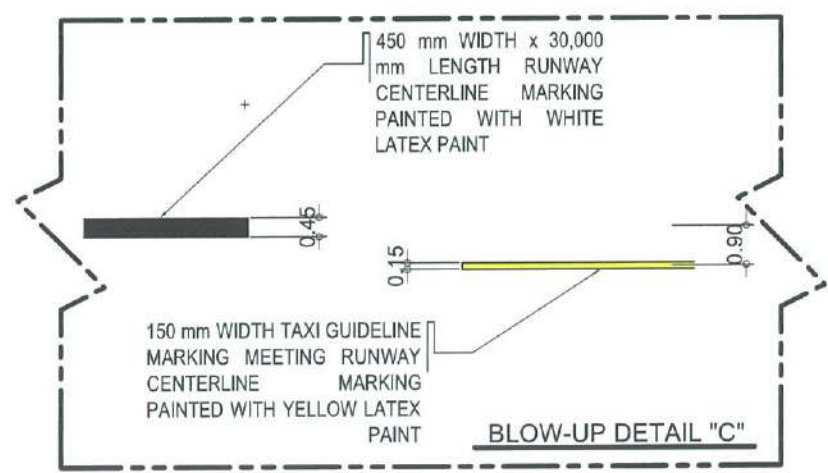
450 mm WIDTH x 30,000
mm LENGTH RUNWAY
CENTERLINE MARKING
PAINTED WITH WHITE
LATEX PAINT

150 mm WIDTH TAXI GUIDELINE
MARKING MEETING RUNWAY
CENTERLINE MARKING
PAINTED WITH YELLOW LATEX
PAINT

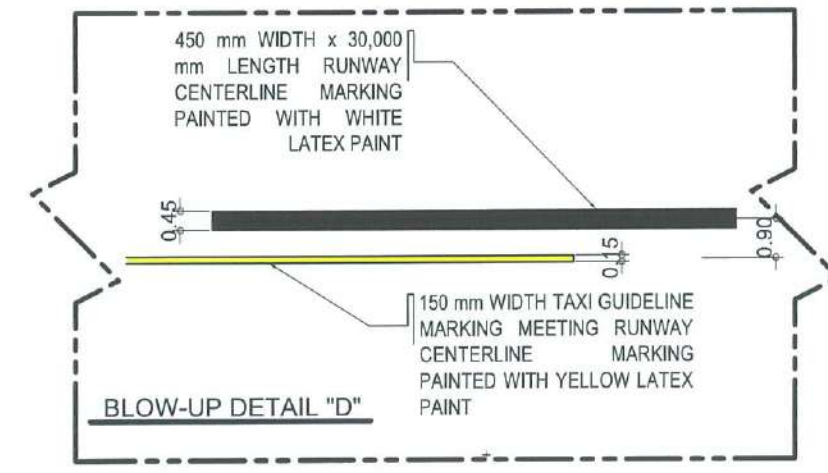
2 - 150 mm WIDTH APRON /
TAXIWAY EDGE MARKING
PAINTED WITH YELLOW
LATEX PAINT

2 - 150 mm WIDTH APRON /
TAXIWAY EDGE MARKING
PAINTED WITH YELLOW
LATEX PAINT

150 mm WIDTH TAXI GUIDELINE
MARKING MEETING RUNWAY
CENTERLINE MARKING
PAINTED WITH YELLOW LATEX
PAINT



TAXI GUIDELINE MARKING
MEETING RUNWAY CENTERLINE MARKING
TO RUNWAY 20



TAXI GUIDELINE MARKING
MEETING RUNWAY CENTERLINE MARKING
TO RUNWAY 02

SOUTHWEST TAXI GUIDELINE MARKING MEETING RUNWAY CENTERLINE
APRON MARKING DETAIL
SCALE: 1: 100 MTRS

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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (jeng227)
CHECKED BY:	EJDR

REVIEWED BY:
RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

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

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

APPROVED:
CAPTAIN MANUEL ANTONIO L. TAMAYO
Chief, General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	10



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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	DDDD
DRAWN BY:	E.V.B. (jmgz27)
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, DDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MABLE E. ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:

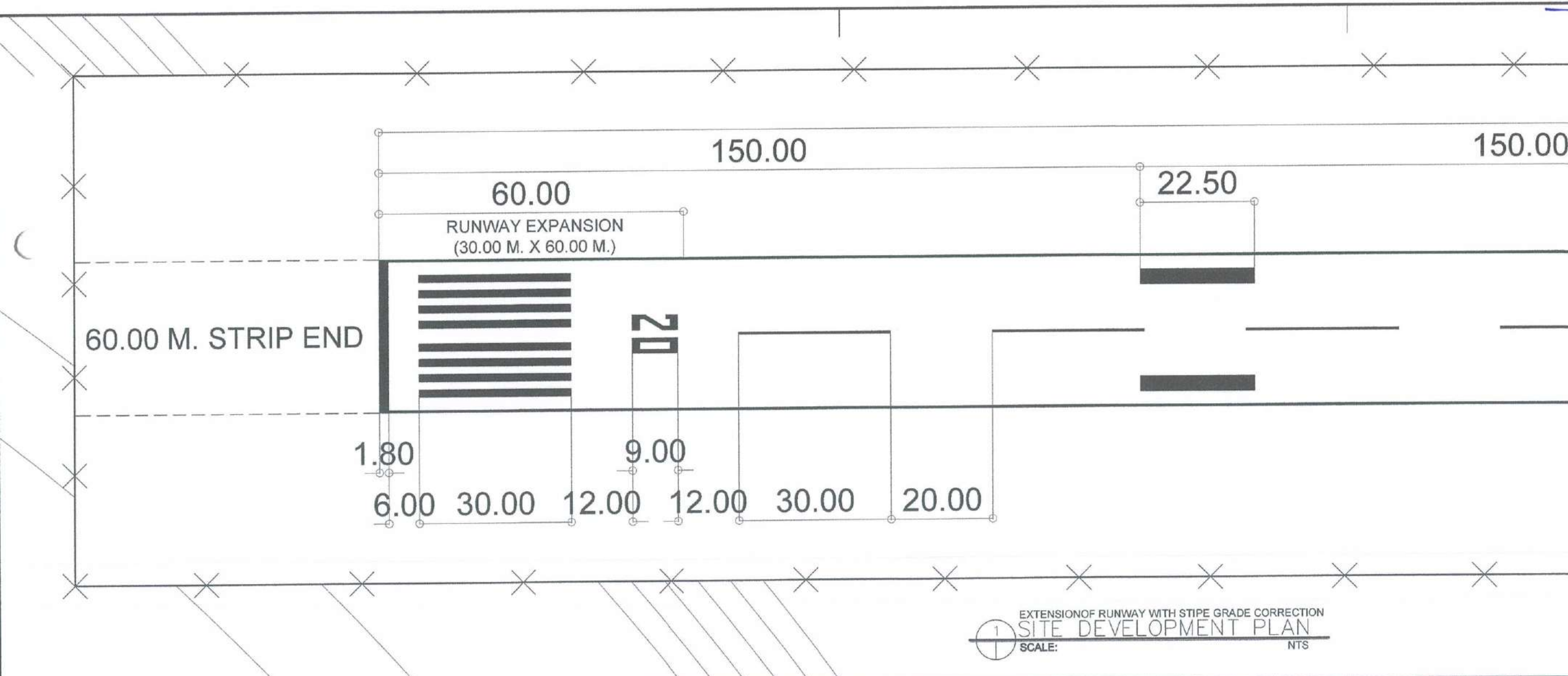
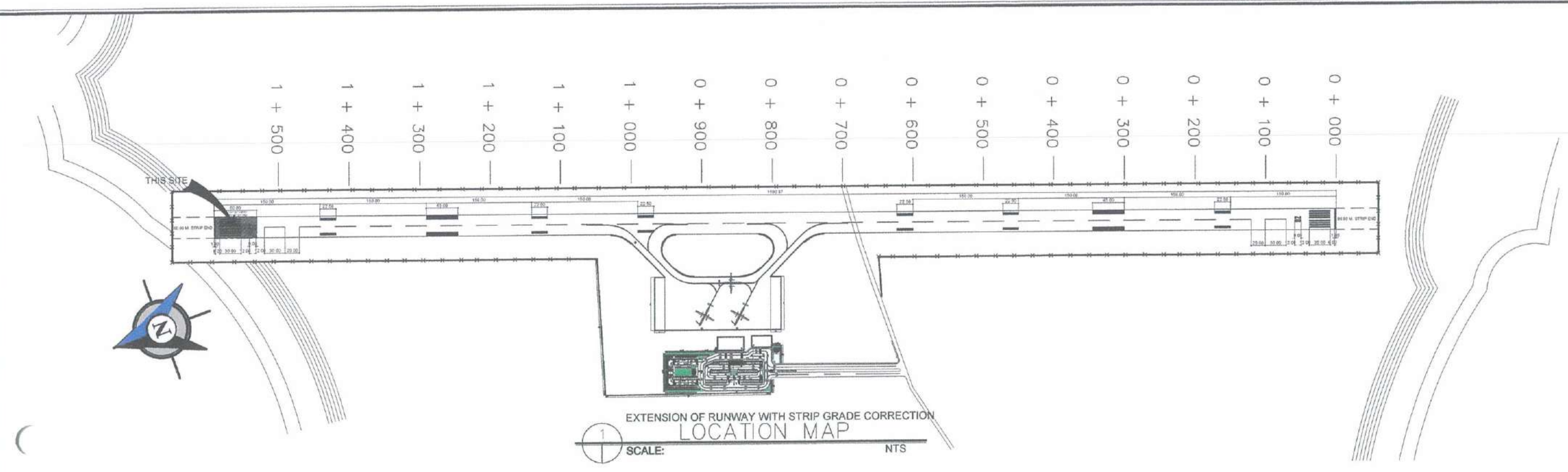
BORONGAN AIRPORT
DEVELOPMENT PROJECT
EXTENSION OF RUNWAY

LOCATION:

BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

DRAWING SCALE:	SHEET NO:
AS SHOWN	12





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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	E.V.B. (janz27)
CHECKED BY:	EJDR

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:

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

APPROVED:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

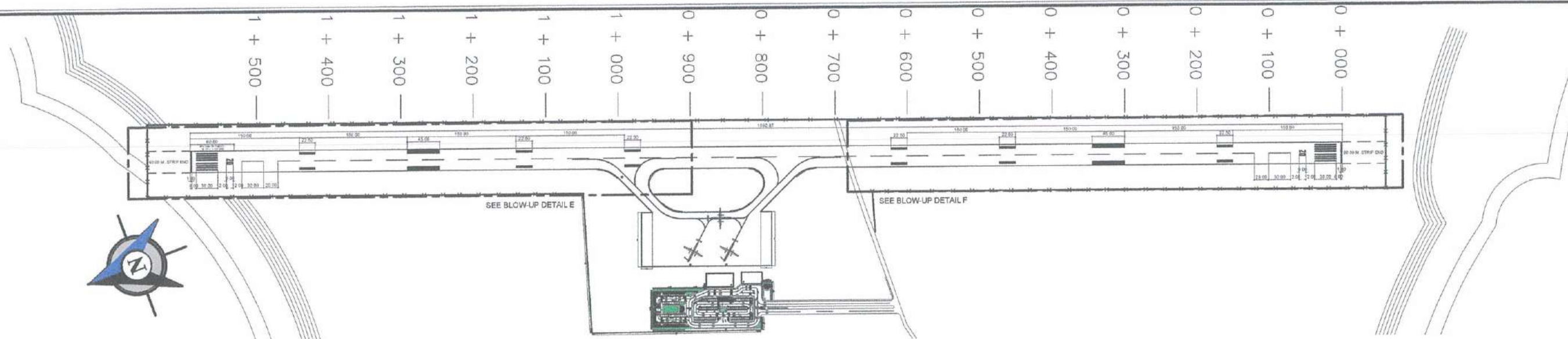
NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT
EXTENSION OF RUNWAY WITH STRIP
GRADE CORRECTION

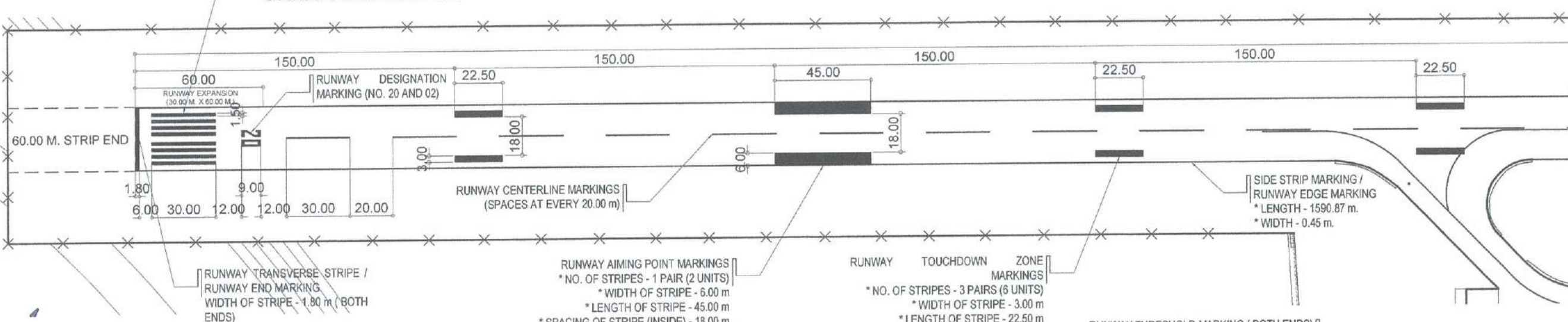
LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:

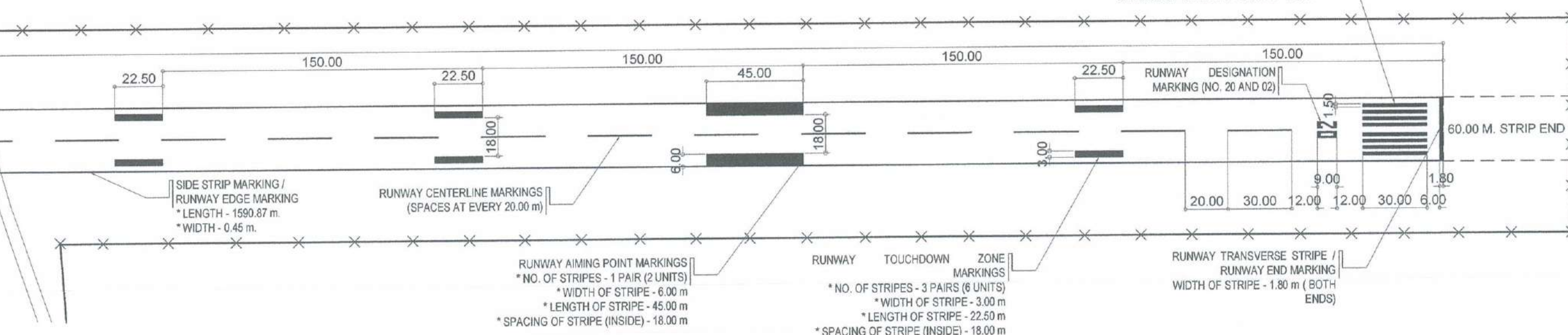
DRAWING SCALE	SHEET NO.
AS SHOWN	13



RUNWAY THRESHOLD MARKING (BOTH ENDS)
* WIDTH OF STRIPE - 1.80 m
* LENGTH OF STRIPE - 1.80 m
* SPACING OF STRIPE - 1.80 m
* SPACING OF STRIPE AT CENTER - 1.80 m

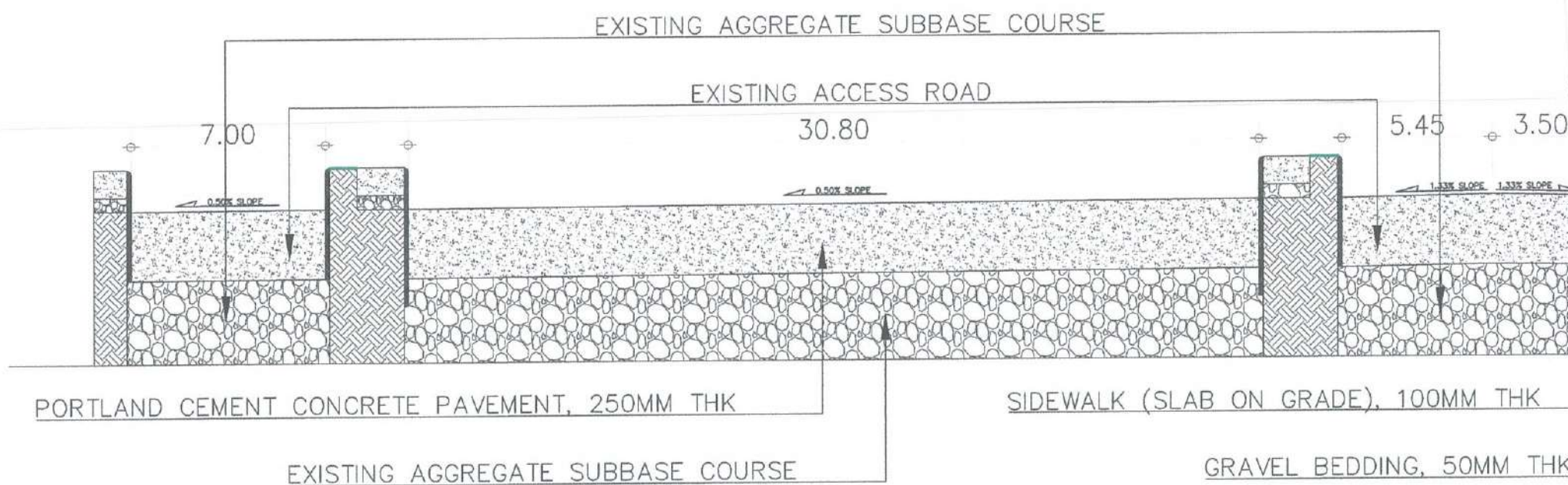


BLOW-UP DETAIL "E"



BLOW-UP DETAIL "F"

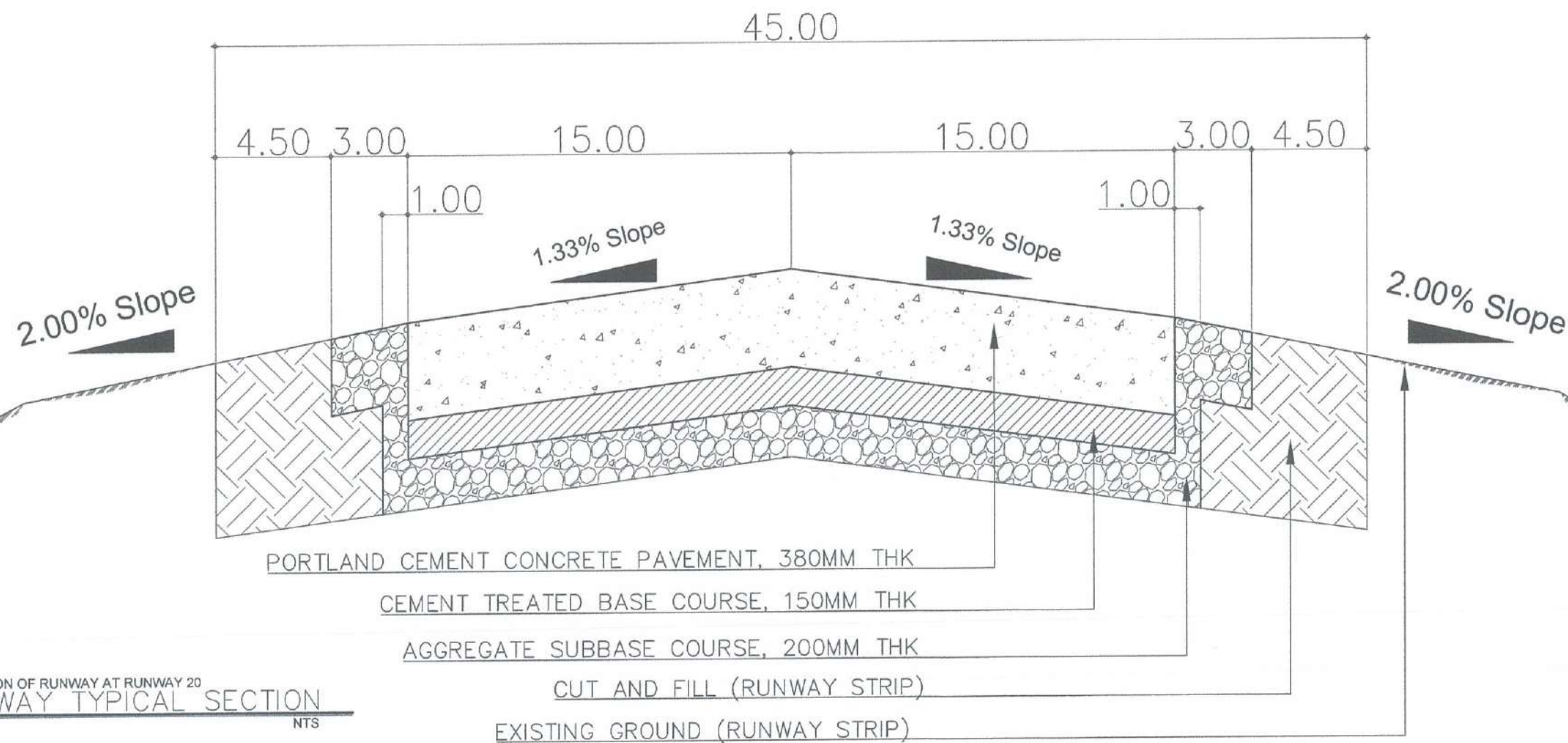
EXPANSION OF APRON
AIRPORT RUNWAY MARKINGS
SCALE: 1:1250 MTRS



COMPLETION OF VEHICULAR PARKING AREA

VEHICULAR PARKING TYPICAL SECTION

SCALE: NTS

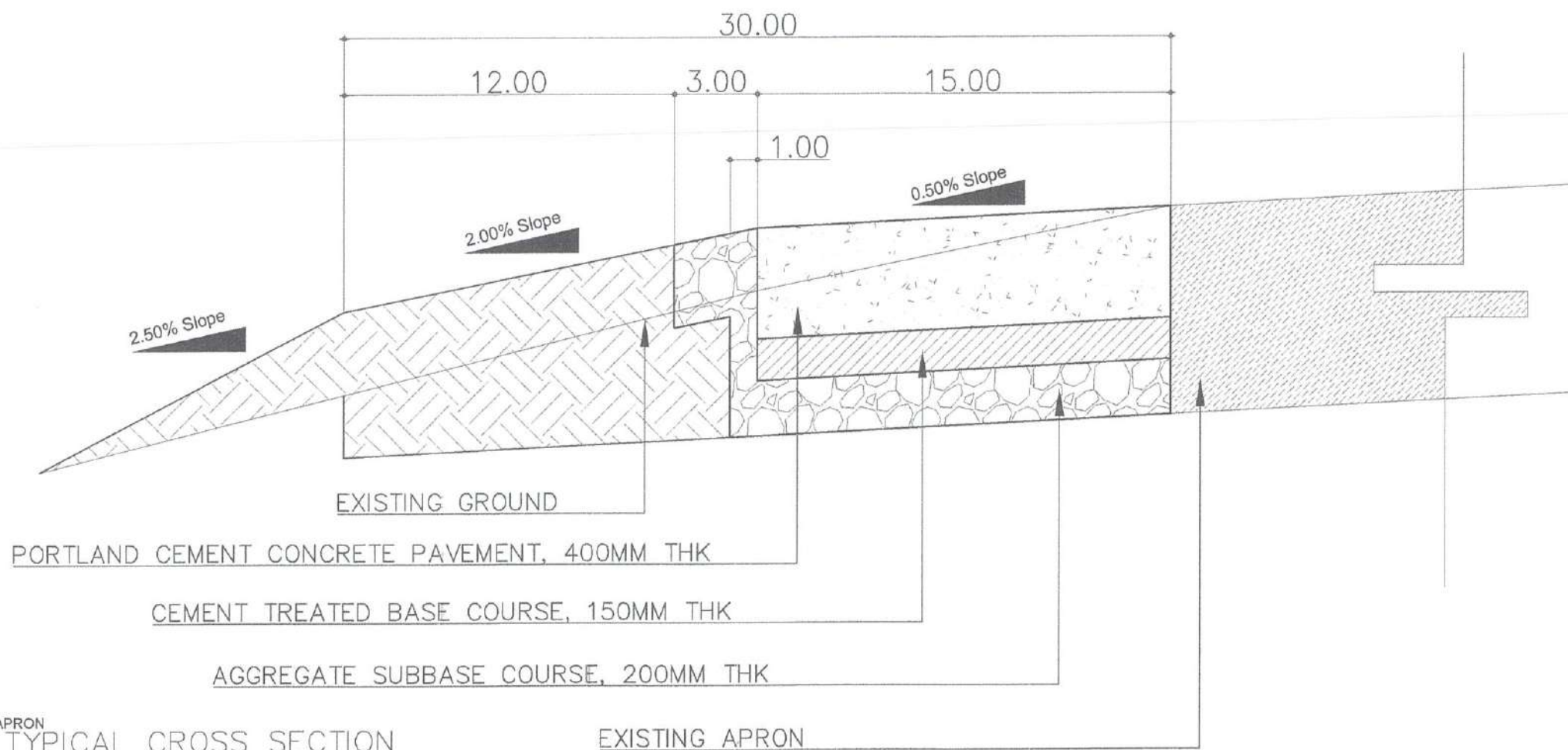


EXTENSION OF RUNWAY AT RUNWAY 20

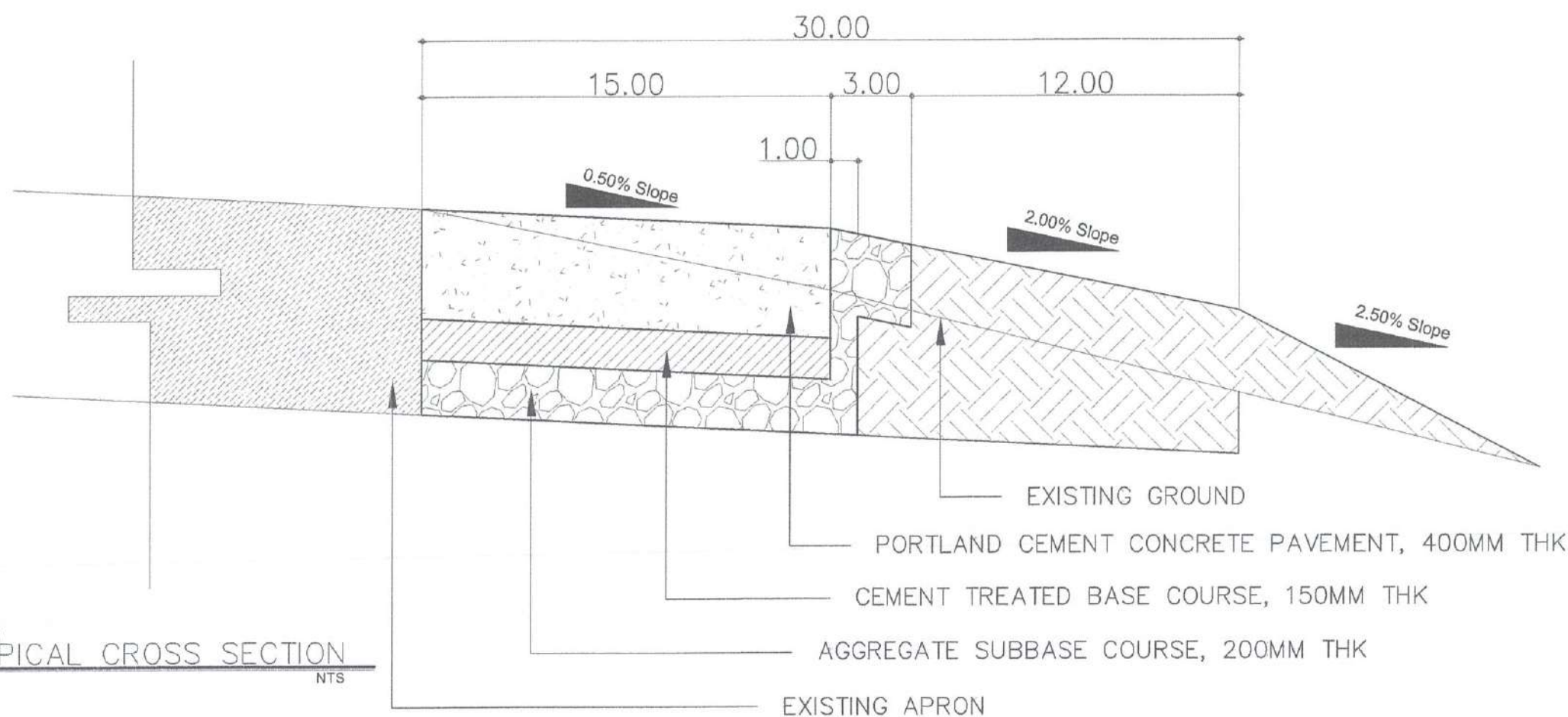
RUNWAY TYPICAL SECTION

SCALE: NTS

RECOMMENDED:	
APPROVED:	LT COL VALERINO A. DI Assistant Director Gen
NOTES/REVISIONS:	CAPTAIN MANUEL Director
PROJECT:	BORONGAN / DEVELOPMENT
LOCATION:	BORONGAN A BORONGAN
SHEET CONTENTS:	VPA TYPICAL S RUNWAY TYPICA
DRAWING SCALE:	SH
AS SHOWN	1



EXPANSION OF APRON
1 APRON TYPICAL CROSS SECTION
SCALE: NTS



EXPANSION OF APRON
2 APRON TYPICAL CROSS SECTION
SCALE: NTS



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AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT
AND DESIGN DIVISION

DESIGN STAFF	INITIAL / DATE
DESIGNED BY: IDDD	
DRAWN BY: E.V.B./L.D.	
CHECKED BY: E.J.D./R	

REVIEWED BY:
RAGEL R. RUCENA
Division Chief III, IDDD - ADMS

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

RECOMMENDED APPROVAL:
LT COL VALERINO A. DIONELA, PAF (Ret)
Assistant Director General II, ADMS

APPROVED:
CAPTAIN M. M. L. ANTONIO L. TAMAYO
Director General

NOTES/REVISIONS:

PROJECT:
BORONGAN AIRPORT
DEVELOPMENT PROJECT

LOCATION:
BORONGAN AIRPORT
BORONGAN

SHEET CONTENTS:
APRON TYPICAL SECTION

DRAWING SCALE	SHEET NO.
AS SHOWN	16

