



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION III
OFFICE OF THE REGIONAL DIRECTOR
SINDALAN, CITY OF SAN FERNANDO, PAMPANGA

CONSTRUCTION OF MULTI-PURPOSE BUILDING

PRESIDENT RAMON MAGSAYSAY STATE UNIVERSITY

IBA, ZAMBALES

SUBMITTED:

ARTHUR O. SANTOS
CHIEF, PLANNING AND DESIGN DIVISION
DATE: 19 NOV 2024

RECOMMENDED:

MELOJANDES H. STO. DOMINGO
ASSISTANT REGIONAL DIRECTOR
DATE: 19 NOV 2024

APPROVED:

ROSELLER A. TOLENTINO
REGIONAL DIRECTOR
DATE: 20 NOV 2024

CONCURRED:

DR. ROY N. VILLALOBOS
UNIVERSITY PRESIDENT
PRESIDENT RAMON MAGSAYSAY
STATE UNIVERSITY
DATE: 20 NOV 2024

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE REGIONAL DIRECTOR
SINGAPOH, CITY OF SAN FERNANDO, PAMPANGA

PROJECT NAME AND LOCATION:

CONSTRUCTION OF
MILITARY TRAINING
REGIONAL MANDALAYAN STATE UNIVERSITY

SHEET CONTENTS:

- PERSPECTIVE
- LOCATION PLAN

PREPARED:

MICHAEL L. MARZAN
ARCHITECT I

REVIEWED:

CARINA C. SAZO
SECTION CHIEF, BRIDGES & OTHER
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SUBMITTED:

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APPROVED:

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REGIONAL DIRECTOR

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PRESIDENT MANDALAYAN STATE UNIVERSITY

SHEET NO.

1

SHEET NO.

1

PERSPECTIVES

A 1
SCALE
NOT TO SCALE



VICINITY MAP

A 1
SCALE
NOT TO SCALE



LOCATIONAL MAP

A 1
SCALE
NOT TO SCALE





REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION AND HIGHWAYS
OFFICE OF THE REGIONAL DIRECTOR
BAGUIO, CITY OF SAN FERNANDO, PAMPANGA

PROJECT NAME AND LOCATION:

CONSTRUCTION OF
MULTI-PURPOSE BUILDING
PRESIDENT RAMON MACARAIG STATE UNIVERSITY

SHEET CONTENTS:

SITE DEVELOPMENT PLAN

PREPARED:

MICHAEL L. MARZAN
ARCHITECT

REVIEWED:

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SUBMITTED:

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CHIEF, PLANNING AND DESIGN DIVISION

RECOMMENDED:

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ASSISTANT REGIONAL DIRECTOR

APPROVED:

ROBERTO A. TOLENTINO
REGIONAL DIRECTOR

CONCURRED:

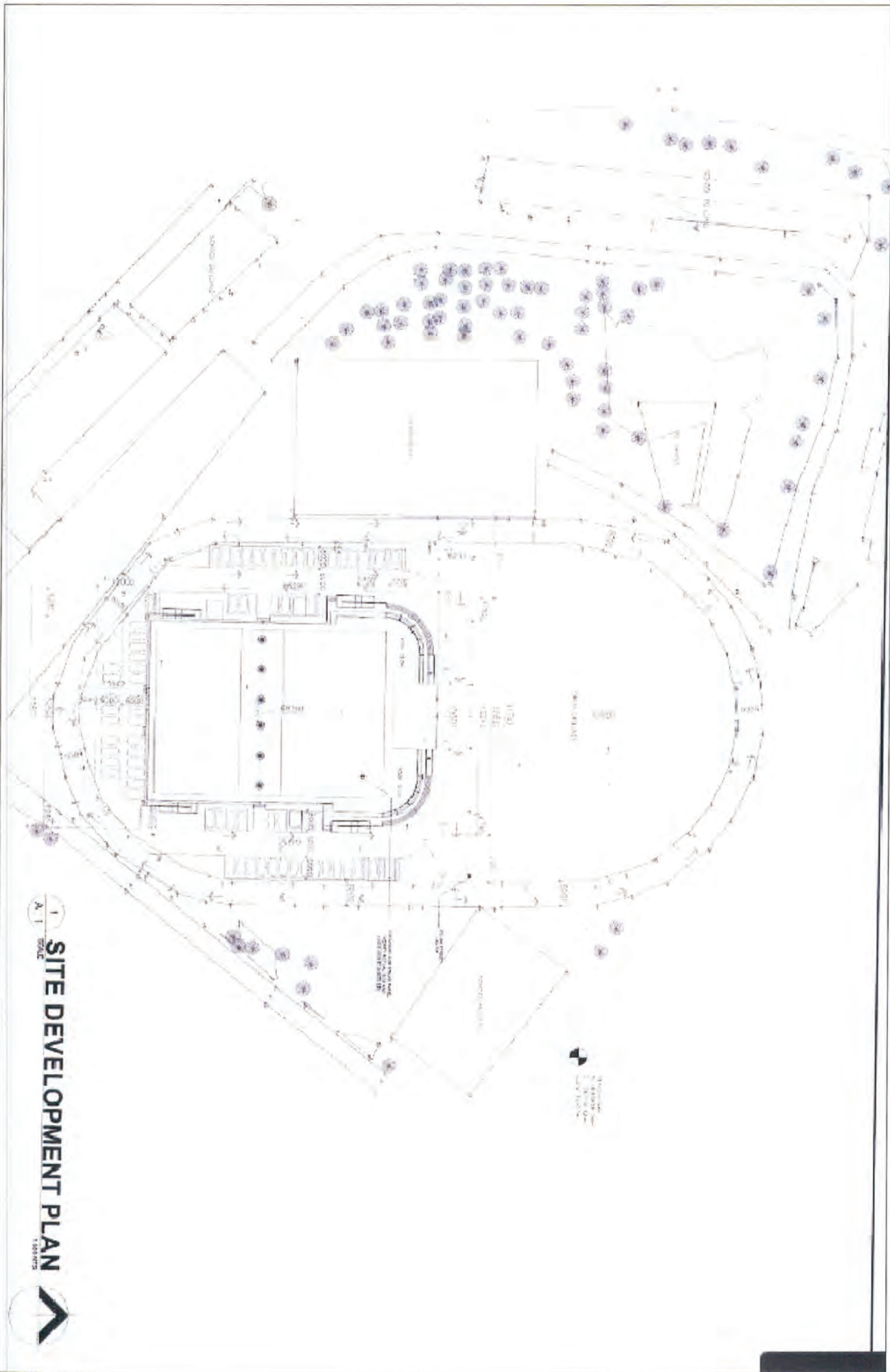
DR. ROY N. VILLALOBOS
PRESIDENT RAMON MACARAIG STATE UNIVERSITY

SHEET NO.

A

SHEET NO.

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION III
OFFICE OF THE REGIONAL DIRECTOR
SINGAPOL CITY OF SAN FERNANDO, PAMPANGA

PROJECT NAME AND LOCATION:

SHEET CONTENTS

PREPARED

REVIEWED

SUBMITTED

RECOMMENDED

APPROVED

CONCURRED

SHEET NO.

SHEET NO.

CONSTRUCTION OF
MALL BUILDING
PRESIDENT RAMON MACARAIG STATE UNIVERSITY

LOWER FLOOR PLAN

MICHAEL L. JAZZAN
ARCHITECT

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SECTION CHIEF, BRIDGES & OTHER
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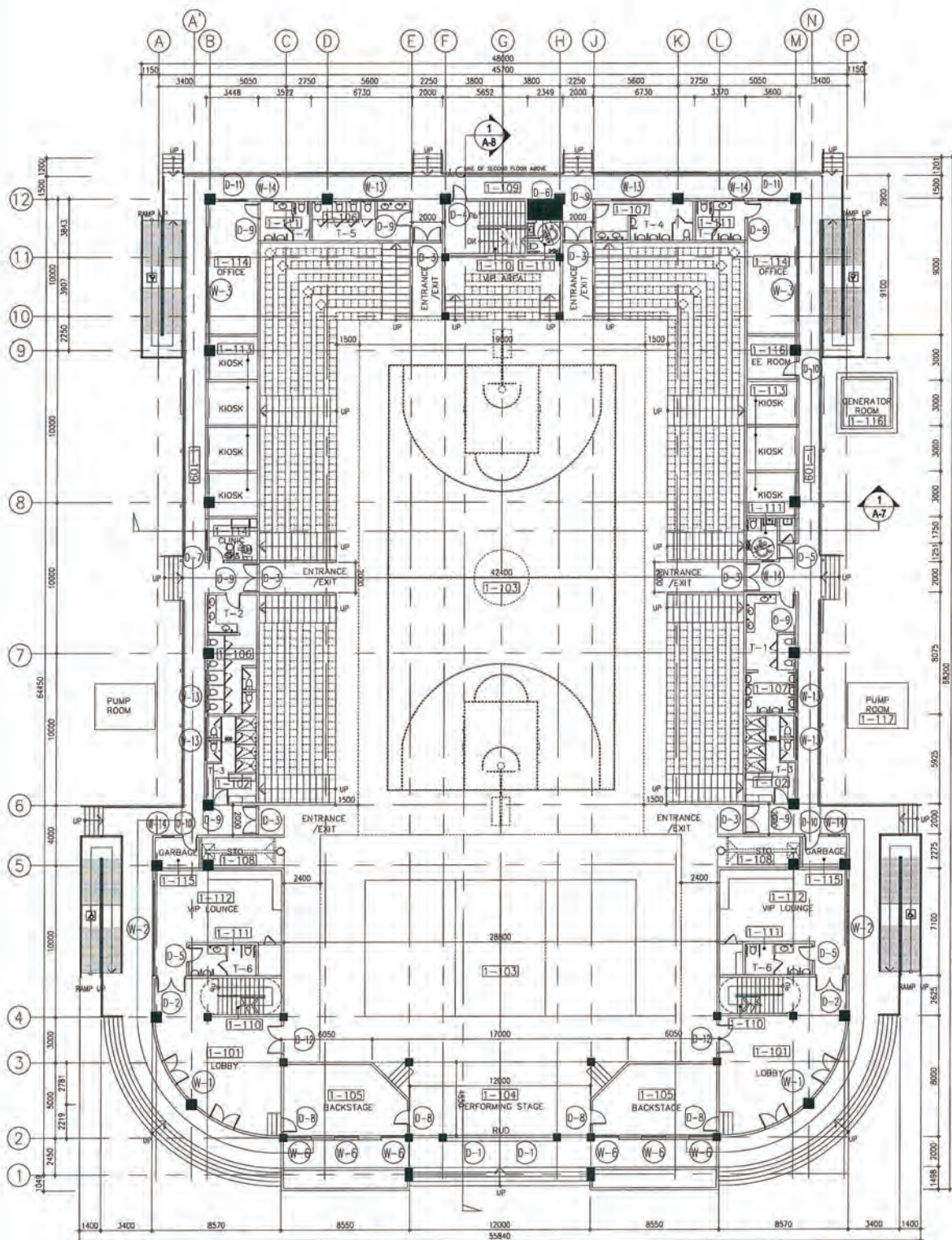
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REGIONAL DIRECTOR

DR. ROY R. VILLALBA
PRESIDENT RAMON MACARAIG STATE UNIVERSITY

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1 LOWER FLOOR PLAN
A-1 SCALE 1" = 100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION III
OFFICE OF THE REGIONAL DIRECTOR
SINGAPOLE CITY OF SAN REMANDO, PAMPANGA

PROJECT NAME AND LOCATION:

SHEET CONTENTS:

PREPARED:

REVIEWED:

SUBMITTED:

RECOMMENDED:

APPROVED:

CONCURRED:

SET NO.

SHEET NO.

CONSTRUCTION OF
MILITARY TRAINING CENTER
PAMPANGA STATE UNIVERSITY

LOWER FLOOR PLAN

MICHAEL L. MARZAN
ARCHITECT II

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PUBLIC WORKS

ARTHUR D. SANTOS
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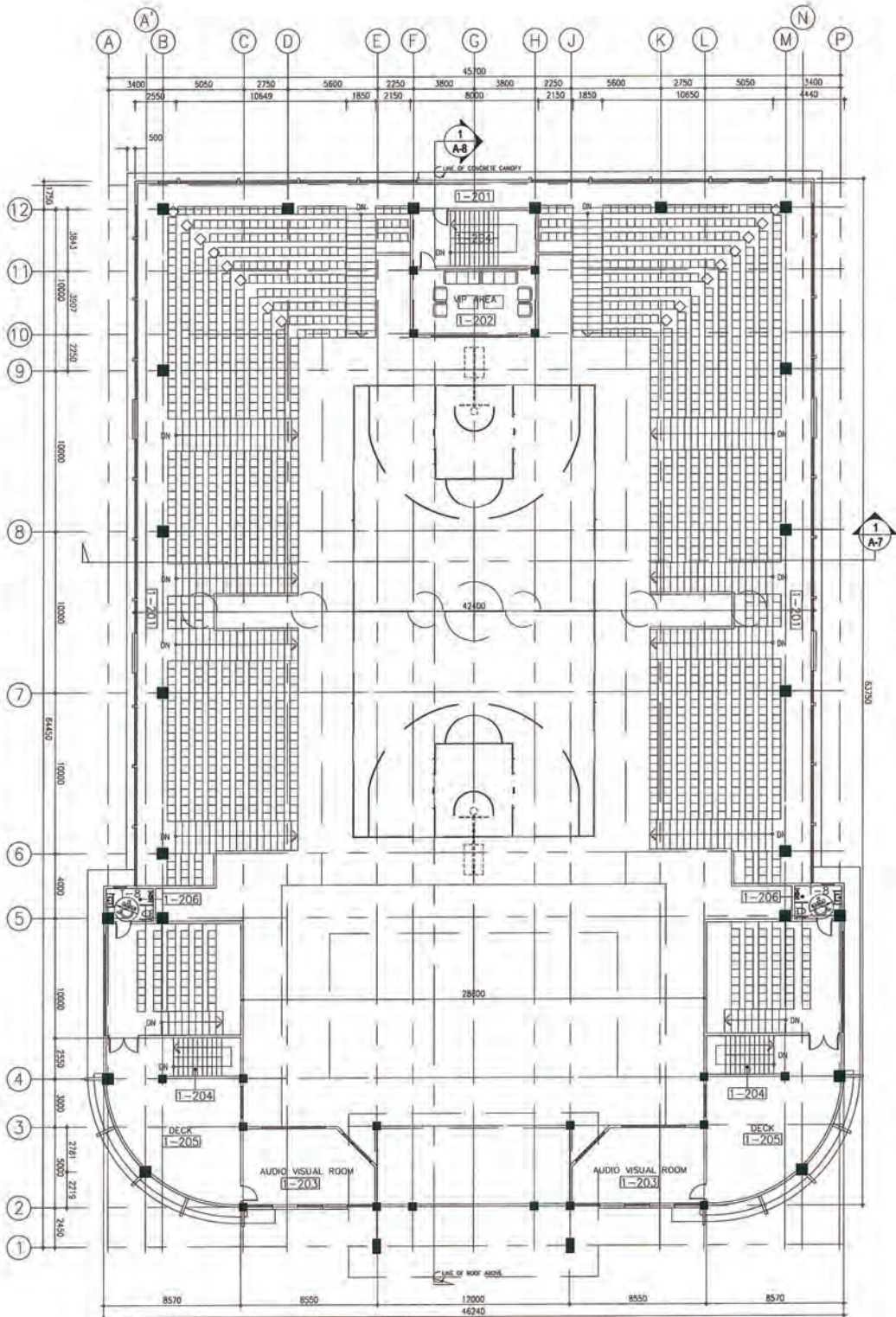
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ROSELLER A. TOLENTINO
REGIONAL DIRECTOR

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PRESIDENT RAMON MAGSAYSAY
STATE UNIVERSITY

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1 UPPER FLOOR PLAN

SCALE: 1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION III
OFFICE OF THE REGIONAL DIRECTOR
SINGAL CITY OF SAN FERNANDO, PAMPANGA

PROJECT NAME AND LOCATION

SHEET CONTENTS

PREPARED

REVIEWED

SUBMITTED

RECOMMENDED

APPROVED

CONCURRED

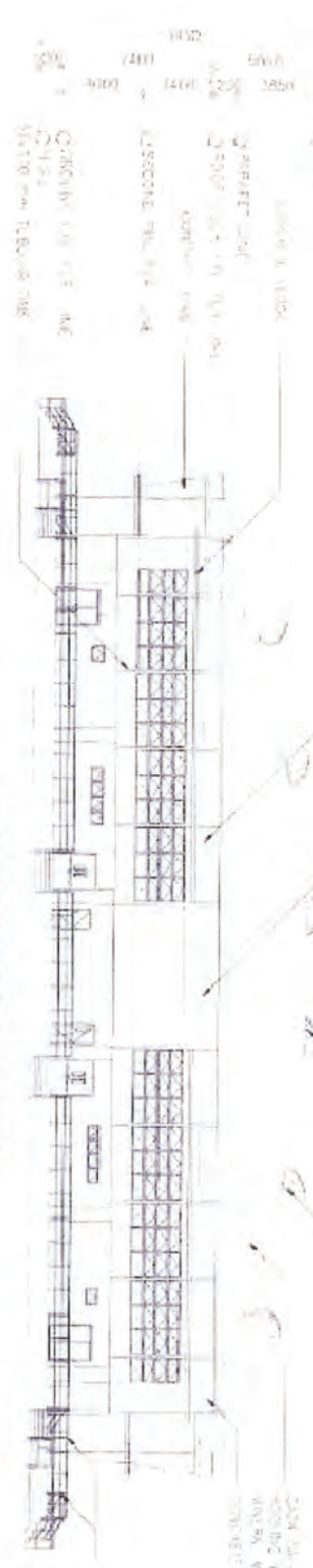
SHEET NO.

SHEET NO.

CROSS SECTION



REAR ELEVATION



FRONT ELEVATION



A 7

A 7

A 7

1:100

1:100

1:100

A

A

A

5

5

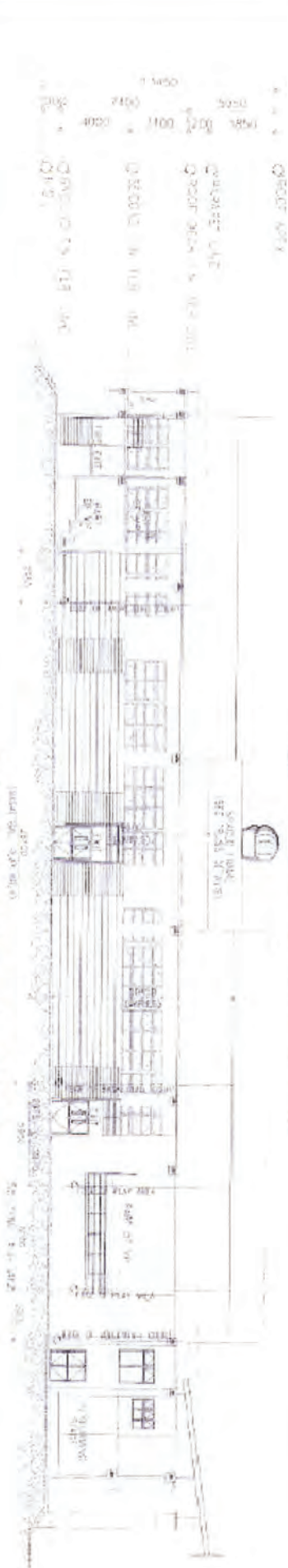
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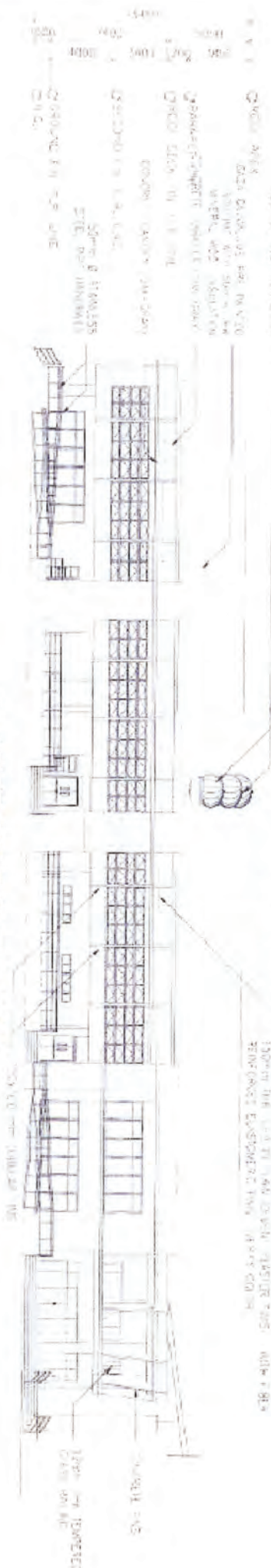
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE REGIONAL DIRECTOR
SIPOLAN CITY OF SAN PEDRANO, PAMPANGA

PROJECT NAME AND LOCATION		SHEET CONTENTS		PREPARED		REVIEWED		SUBMITTED		RECOMMENDED		APPROVED		CONCURRED		SET NO.	SHEET NO.
CONSTRUCTION OF MILITARY CAMP PREFECTURE REGIONAL UNIVERSITY		L-SIDE ELEVATION PREFECTURE REGIONAL UNIVERSITY - LONGITUDINAL SECTION		MICHAEL L. MARZAN ARCHITECT II		CARINA Q. GAZO SECTION CHIEF, BRIDGES & OTHER PUBLIC WORKS		ARTHUR D. SANTOS CHIEF, PLANNING AND DESIGN DIVISION		MELUJADES P. SITO DOMINGO ASSISTANT REGIONAL DIRECTOR		ROSELLER A. TOLENTINO REGIONAL DIRECTOR		DR. RICHARD VILLALBA PRESIDENT, RAMON MAGSAYSAY STATE UNIVERSITY		A 6	

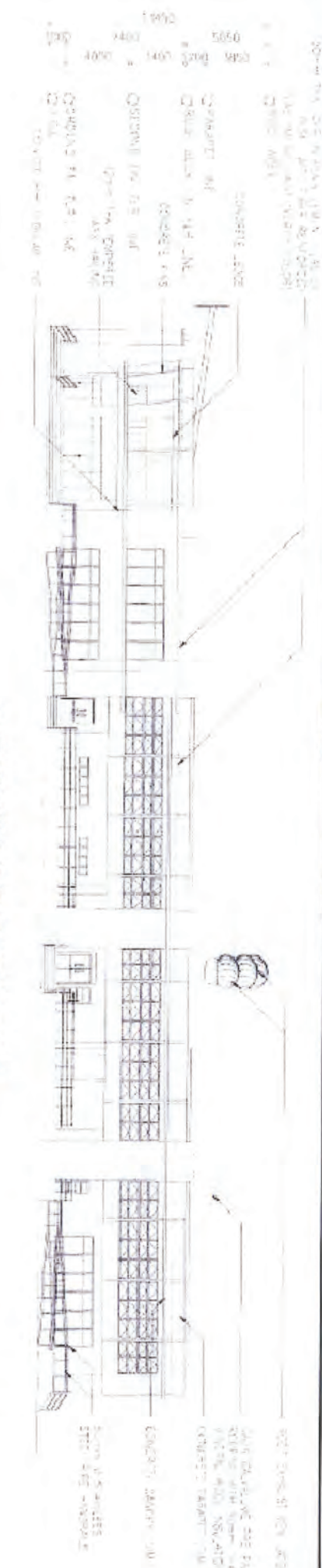
LONGITUDINAL SECTION



LEFT-SIDE ELEVATION



RIGHT-SIDE ELEVATION





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DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE REGIONAL DIRECTOR
SIPOLAN CITY OF SANTEPELLO, PAMPANGA

PROJECT NAME AND LOCATION:

SHEET CONTENTS:

PREPARED:

REVIEWED:

SUBMITTED:

RECOMMENDED:

APPROVED:

CONCURRED:

SHEET NO.

SHEET NO.

CONSTRUCTION OF
MILK
PROCESSING PLANT
PREFECT RAMON MARIANO STATE UNIVERSITY

- ROOF PLAN

MICHAEL L. MARZAN
ARCHITECT

CARINA C. GAZO
SECTION CHIEF, BUILDINGS & OTHER
PUBLIC WORKS

ARTHUR A. SANTOS
CHIEF, PLANNING AND DESIGN DIVISION

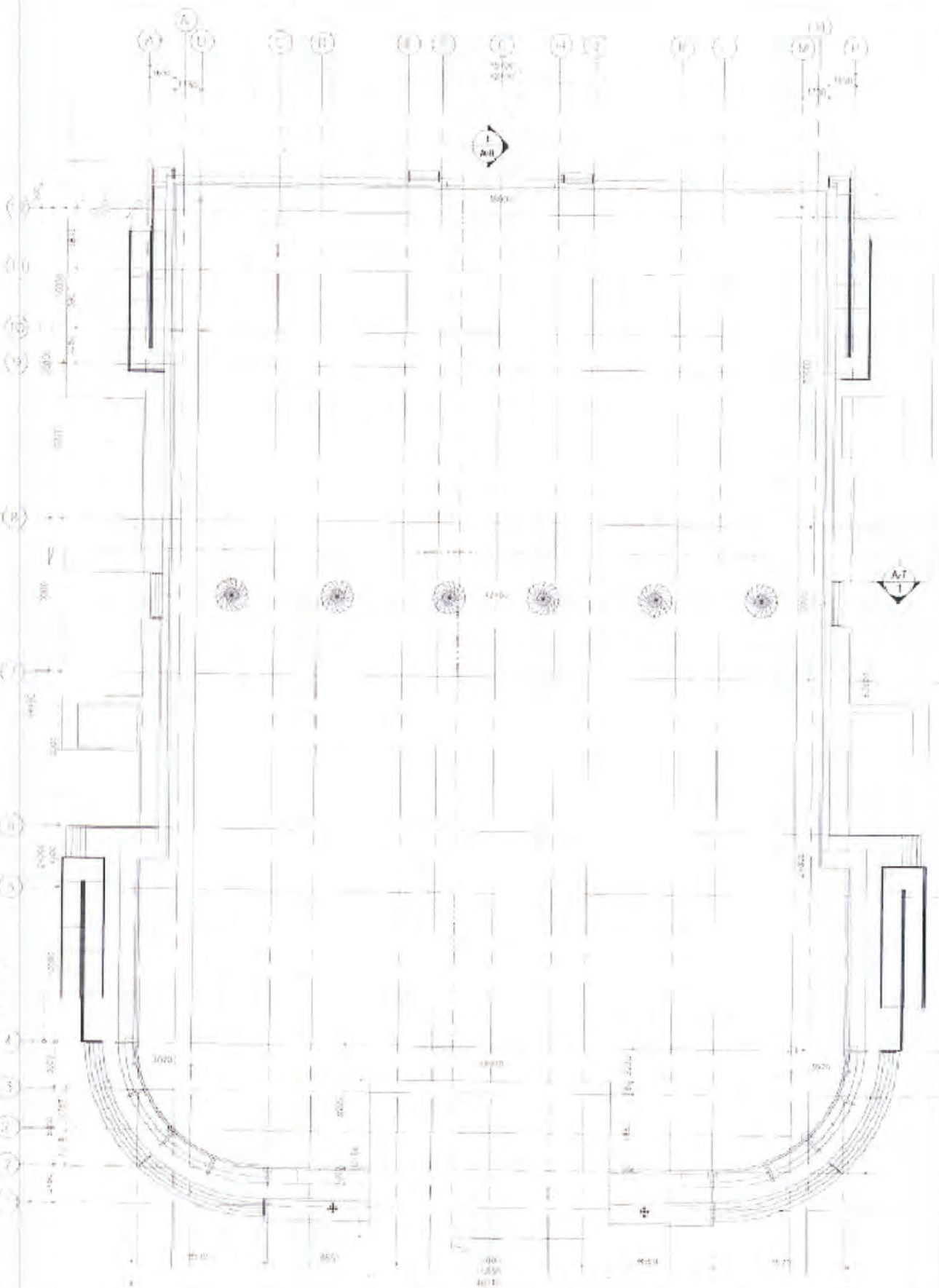
MELUJILADES H. STO. DOMINGO
ASSISTANT REGIONAL DIRECTOR

ROSELLER A. TOLENTINO
REGIONAL DIRECTOR

DR. ROY N. VILLALOBOS
PREFECT RAMON MARIANO STATE UNIVERSITY

7

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1 ROOF PLAN
SCALE 1: 100 MTS.

GENERAL NOTES:

- IN THE INTERPRETATION OF THESE DRAWINGS INDICATED DIMENSIONS SHALL GOVERN ALL DIMENSIONS. DIMENSIONS AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- UNLESS OTHERWISE SPECIFIED ON PLANS, ALL DIMENSIONS ARE IN MILLIMETERS.

DESIGN SPECIFICATION

- STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES VOLUME II

DESIGN CRITERIA

- DPWH DESIGN GUIDELINES, CRITERIA AND STANDARDS, VOLUME 6 - PUBLIC BUILDINGS & OTHER RELATED STRUCTURES 2015 EDITION
- NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP) 2015, 7th EDITION, FOR BUILDINGS, TOWERS & OTHER VERTICAL STRUCTURES.

LOADINGS

A. LIVE LOAD

- (1) BASIC = 1.90 kPa
- (2) EXTERIOR BALCONIES = 2.90 kPa
- (3) LOBBIES = 2.90 kPa
- (4) CEILING = 0.20 kPa

B. DEAD LOAD

- (1) CONCRETE = 24.0 kN/m³
- (2) STEEL = 75.50 kN/m³
- (3) CRB, 150mm = 3.11 kN/m per meter ft.
- (4) CRB, 100mm = 2.29 kN/m per meter ft.
- (5) TILES = 1.10 kPa
- (6) CEILING = 0.20 kPa

C. WIND LOAD

- OCCUPANCY CATEGORY I
- Essential Occupancy Structure
- Exposure Category = B
- Surface Roughness = B
- Basic Wind Speed, V = 250 kph
- Topographic Factor, K_t = 1.0
- Wind Directionality Factor, K_d = 0.85
- Enclosure Classification = Enclosed Building
- Internal Pressure Coefficient, C_{pi} = ± 0.18

D. SEISMIC LOAD

- Seismic Zone = Zone 4
- Seismic Zone Factor = 0.4
- Soil Profile Type = Sp
- Design Base Shear, V = $(C_a \times I \times W) / R$

- where:
 - Near Source Factor, C_a = 0.44N (N = 1.2)
 - Near Source Factor, C_v = 0.64N (N = 1.4)
 - Seismic Importance Factor, I = 1.5 (Occupancy Category I)
 - Structural System Response Factor, R = 8.5 (as per NSCP 2015 Table 208-11A)
 - Structure Period, T = $C_1 (m)^{1/2} (C_2 = 0.073)$

NOTES ON FOUNDATION:

- SOIL BEARING CAPACITY USED IN THE FOUNDATION DESIGN IS 170 kPa AT DEPTH OF 200 METERS BELOW NATURAL GRADE LINE. BASED ON GEOTECHNICAL INVESTIGATION CONDUCTED AT PROJECT PROPOSED LOCATION. IF SOIL BEARING CAPACITY IS FOUND LESS THAN THE DESIGNED VALUE, CONTRACTOR MUST ADVISE THE DESIGN ENGINEER FOR PROPER REVISION OF DESIGN.
- NO FOOTING SHALL REST ON FILL.
- USE OF VIBRATOR IS STRICTLY REQUIRED DURING CONCRETE POURING.

MATERIALS:

- CONCRETE
 - UNLESS INDICATED OTHERWISE ON PLANS, THE CONCRETE CLASS AND STRENGTH SHALL BE AS FOLLOWS:

STRUCTURAL MEMBER	CLASS	COMPRESSIVE STRENGTH
CAST IN PLACE BEAMS, COLUMNS, STAIRS, FOOTING, THE BEAMS SLAB	A	28
FOOTING, WALL, FOOTING	A	28
MASONRY		5.90
		1,000

2. REINFORCING STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A615 (ASTM A615), DEFORMED BARS WITH MIN. YIELD STRENGTH $f_y = 275 \text{ MPa}$ (40,000 PSI) FOR ALL BARS.
- REINFORCING STEEL SHALL BE FREE OF MILL SCALES, OIL OR ANY SUBSTANCES WHICH WILL WEAKEN THE BOND WITH CONCRETE.

3. STRUCTURAL STEEL, BOLTS AND WELDS

MATERIAL	SPECIFICATION
TRUSSES, PURLINS, PLATES, BRACINGS, ETC.	ASTM A - 36 $f_y = 248 \text{ MPa}$
BOLTS	ASTM A - 307 $f_y = 60 \text{ MPa}$, $f_u = 56.80 \text{ MPa}$
WELDS	E = 60K ELECTRODES $f_y = 54 \text{ MPa}$

NOTES ON BEAMS:

- FOR BEAMS REINFORCING THAT END IN WALL, THE CLEAR DISTANCE FROM THE BAR TO THE PARTIAL FACE OF THE WALL SHALL NOT BE LESS THAN 5 BARS DIAMETERS. THE REINFORCING BARS SHALL BE TERMINATED ON A STANDARD 90° HOOK. MINIMUM EMBEDMENT SHALL BE 40 BARS DIAMETERS FOR TENSION AND 30 BARS DIAMETERS FOR COMPRESSION BAR.
- FOR TWO OR MORE LAYERS OF REINFORCING BARS, 25mm SEPARATOR SHALL BE USED SPACED AT 900mm O.C. IN NO CASE SHALL THERE BE LESS THAN TWO SEPARATORS BETWEEN LAYERS OF BARS.
- GENERALLY NO SPLICE SHALL BE PERMITTED ON BEAM AT POINTS WHERE CRITICAL BENDING OCCURS.

CONSTRUCTION:

- CONSTRUCTION SPECIFICATION: 1995 DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS (VOL. II AND VOL. III)

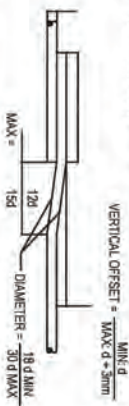
- SETTING OUT AND THE ELEVATIONS OF THE DIFFERENT COMPONENTS OF THE STRUCTURE SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE START OF ANY CONSTRUCTION WORK.
- REINFORCED CONCRETE
 - DESIGN OF CONCRETE MIX SHALL MEET THE DESIGN CONCRETE STRENGTH GIVEN UNDER ITEM 1 OF MATERIALS.
 - CONCRETE SHALL BE DEPOSITED, VIBRATED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS.
 - THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, PLACING SEQUENCES FOR ALL CONCRETING WORK.

B. BAR BENDING, SPLICES AND PLACING

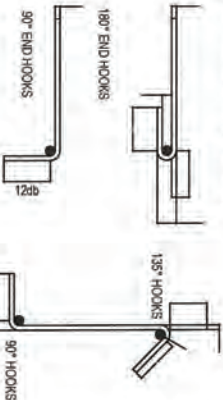
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL OF SHOP DRAWINGS INDICATING THE BENDING, CUTTING, SPLICING AND INSTALLATION OF ALL REINFORCING BARS.
- BARS SHALL BE BENT COLD BARS PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT UNLESS PERMITTED BY THE ENGINEER.
- BAR SPACING NOT INDICATED ON DRAWINGS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- WELDED SPLICES, IF APPROVED BY THE ENGINEER, SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF BARS.
- NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION SHALL BE SPICED.
- UNLESS OTHERWISE SHOWN ON DRAWINGS, THE CLEAR DIST. BET. CAVELER BARS IN A LAYER SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL DIA. OF THE BAR NOR LESS THAN 1.5 TIMES THE MAX. SIZE OF COARSE AGGREGATE. THE CLEAR DIST. BET. LAYERS SHALL NOT BE LESS THAN 25mm NOR ONE BAR DIAMETER. THE BARS IN THE UPPER

GENERAL NOTES & STANDARDS

- CRANKED SPLICES



- HOOKS AND BENTS
 - ALL REINFORCEMENT SHALL BE BENT COLD UNLESS PERMITTED BY THE DESIGN ENGINEER.
 - REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE DESIGN ENGINEER.
 - TIES & CLOSE STIRRUPS MUST BE BENT AT 135°.



MAIN BAR END HOOKS (ALL GRADES)

BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK	90° HOOK
10mmØ	60	75	125
12mmØ	75	100	150
16mmØ	95	125	175
20mmØ	115	150	200
25mmØ	140	200	250
28mmØ	160	240	300
32mmØ	180	280	350
36mmØ	200	320	400

STIRRUPS AND THE HOOKS (ALL GRADES)

BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK	90° HOOK
10mmØ	40	125	85
12mmØ	50	165	115
16mmØ	65	200	140
20mmØ	85	240	165
25mmØ	110	280	190
28mmØ	130	320	220
32mmØ	150	360	250
36mmØ	170	400	280



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE REGIONAL DIRECTOR
MANILA CITY & SAN FERNANDO, PAMPUNGA

PROJECT NAME AND LOCATION
CONTRACTOR OF MULTIPURPOSE BUILDING
GENERAL NOTES AND STANDARDS

ENGINEER
DESIGNED BY
CHECKED BY
DATE

REVIEWED
DATE

SUBMITTED
DATE

RECOMMENDED
DATE

APPROVED
DATE

CONCURRED
DATE

REVISION
DATE

SHEET NO.
28

C. CONCRETE COVER TO REINFORCEMENT
MINIMUM CONCRETE COVER TO REINFORCEMENT SHALL BE 75mm UNLESS SHOWN OTHERWISE ON DRAWINGS.

D. CONSTRUCTION JOINT

- (1) THE POSITION AND FORM OF ANY CONSTRUCTION JOINTS SHALL BE AS SHOWN ON DRAWINGS OR AS AGREED WITH THE ENGINEER.
(2) THE INTERFACE BETWEEN THE FIRST AND SECOND POUR OF CONCRETE SHALL BE ROUGHED WITH AN AMPLITUDE OF 6mm MINIMUM.

E. FALSEWORK

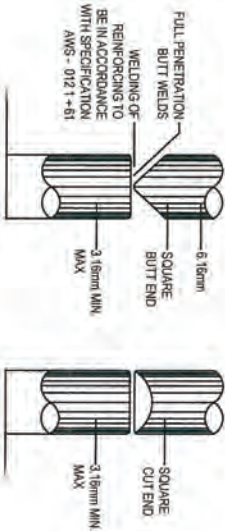
ALL FALSEWORK SHALL BE DESIGNED BY THE CONTRACTOR SUBJECT TO THE APPROVAL BY THE ENGINEER. THE FALSEWORK SHALL BE REMOVED ONLY AS DIRECTED BY THE ENGINEER.
F. FORMWORK
FORMWORK SHALL BE CONSTRUCTED SUCH THAT IT WILL NOT YIELD UNDER THE LOAD AND SHALL BE AS TO AVOID THE FORMATION OF FINE.

(3) STRUCTURAL STEEL

- a. IN ACTUAL FABRICATION OF STEEL TRUSSES, MEMBERS MEETING AT A POINT SHALL HAVE THEIR GRAVITY AXIS INTERSECT AS NEARLY AS PRACTICABLE AT A COMMON POINT.
b. STRUCTURAL STEEL TO BE USED FOR FABRICATION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISIONS OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING 1989, 8TH EDITION.
c. ALL STRUCTURAL STEEL SHAPES SHALL BE ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
d. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
e. ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM 307 BOLTS.
f. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING, AND MAKE ACTUAL MEASUREMENTS IN THE FIELD PRIOR TO FABRICATION/INSTALLATION OF ALL TRUSSES.
g. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL STEEL WORKS. THESE SHOP DRAWINGS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY FABRICATION COMMENCES.

NOTES ON WELDS:

1. USE E70XX ELECTRODES FOR ALL MEMBERS WELDED.
2. WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.



4. CAST-IN-PLACE (COLUMNS, BEAMS & SLAB)

- a. THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS FOR ALL PRE CAST / PRE-STRESSED MEMBERS DULY SIGNED AND SEALED BY A STRUCTURAL ENGINEER BEFORE ANY FABRICATION, ERECTION AND INSTALLATION COMMENCES. THESE SHOP DRAWINGS SHALL BE APPROVED BY THE DESIGN ENGINEER.
5. CONCRETE HOLLOW BLOCK WALLS:

- (1) UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
(2) PROVIDE 15mm x 10mm STRENGTH COLUMN REINFORCED WITH 4x12mm WITH 6mm TIES AT 15mm ON CENTER WHERE CONCRETE COLUMN BLOCKS TERMINATES AND AT EVERY 3.0m OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT

BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
100mm	10mm @ 0.6m O.C.	10mm @ 0.6m O.C.	A. MINIMUM LAPS @ SPICE = 0.2m B. PROVIDE STRENGTH AND ED REINFORCEMENT AT CORNERS 0.3m C. WHERE CHG OR CER. B/LK, R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOK. REINFORCEMENT SHALL BE PROVIDED.
125mm	10mm @ 0.6m O.C.	10mm @ 0.6m O.C.	
150mm	10mm @ 0.6m O.C.	10mm @ 0.6m O.C.	
200mm	10mm @ 0.6m O.C.	10mm @ 0.6m O.C.	

REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

LINTEL IN BLOCK WALLS			
CLEAR SPAN (L)	TOTAL LENGTH (L + 0.40m)	MIN (fe (mm))	REINFORCEMENTS
1.2m	1.60m	14.0	1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m
1.5m	1.90m	14.0	1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m
1.8m	2.20m	14.0	1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m
2.1m	2.50m	17.0	1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m
2.4m	2.80m	17.0	1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m
2.7m	3.10m	17.0	1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m
3.0m	3.40m	20.0	1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m
3.3m	3.70m	20.0	1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m
3.6m	4.00m	20.0	1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m 1 @ 10mm @ 0.2m

LOAD COMBINATIONS

(A) LRFD DESIGN LOAD COMBINATION

1.4DL
1.2DL + 1.6LL + 0.5LLR
1.2DL + 1.6LL + FILL
1.2 + 0.5CANDL + FILL - 1.2SE
(0.9 + 0.5CANDL) - 1.2SE
(0.9 + 0.5CANDL) - 1.2SE
1.2DL + 1.0WL + FILL + 0.5LLR
0.9DL + 1.0WL

(B) SEISMIC DRIFT CHECK LOAD COMBINATION

1.2DL + FILL + 1.2SE
1.2DL + FILL - 1.2SE
0.9DL - 1.2SE

(C) WIND DRIFT CHECK LOAD COMBINATION

1.0DL + 0.5LL + 1.0 WL

(D) SERVICE LOAD COMBINATION

1.0DL + 1.0LL
1.0DL + 0.75LL + 0.5SE
1.0DL + 0.75LL - 0.5SE
0.6DL - 0.7IE
1.0DL + 1.0LL + 0.7IE
1.0DL + 1.0LL - 0.7IE
0.6DL + 0.6WL
1.0DL + 1.0LL + 0.6WL

(E) ULTIMATE LOAD COMBINATION

1.4DL
1.2DL + 1.6LL + 0.5LLR
1.2DL + 1.6LL + FILL
1.2DL + FILL + 1.0E
1.2DL + FILL - 1.0E
0.9DL + 1.0E
0.9DL - 1.0E
1.2DL + 1.0WL + FILL + 0.5LLR
0.9DL + 1.0WL

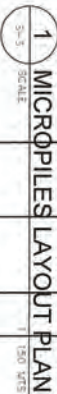
LC	PRIMARY LOAD CASE NAME
1	Dead Load
2	Live Load
3	Road Live Load
4	Earthquake or Seismic Load
5	Wind Load

GENERAL NOTES & STANDARDS

	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE REGIONAL DIRECTOR MANILA CITY OF SAN FRANCISCO, PAVEMENT	PROJECT NAME AND LOCATION	SHEET CONTENTS	ENGINEER JUAN CARLOS S. SANTIAGO SECTION CHIEF, DIVISION OF PAVEMENTS	REVIEWED CARLA E. BAZO SECTION CHIEF, DIVISION OF PAVEMENTS	DESIGNED ARTHUR D. SANTOS CHIEF, PLANNING AND DESIGN DIVISION	RECOMMENDED WILFRED A. SOTO DOMINGO ASSISTANT REGIONAL DIRECTOR	APPROVED ROSALBA A. ORTIZ REGIONAL DIRECTOR	CONCURRED DR. ROY N. VILLALBA PRESIDENT, MANILA UNIVERSITY	SHEET NO. 2	SHEET NO. 20
--	---	---------------------------	----------------	---	---	---	---	---	--	----------------	-----------------

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ALL COLUMNS ARE CENTER TO CENTER UNLESS OTHERWISE SPECIFIED.
3. FOR SCHEDULES OF BEAM, COLUMN, WALL FOOTING AND DETAILS REFER TO SHEET NO. S-11

- 150 CHB WALL





PROJECT NAME AND LOCATION:	SHEET CONTENTS:

ENCODER

REVIEWED

SUBMITTED

RECOMMEN

APPROVED

CONCURS

SET

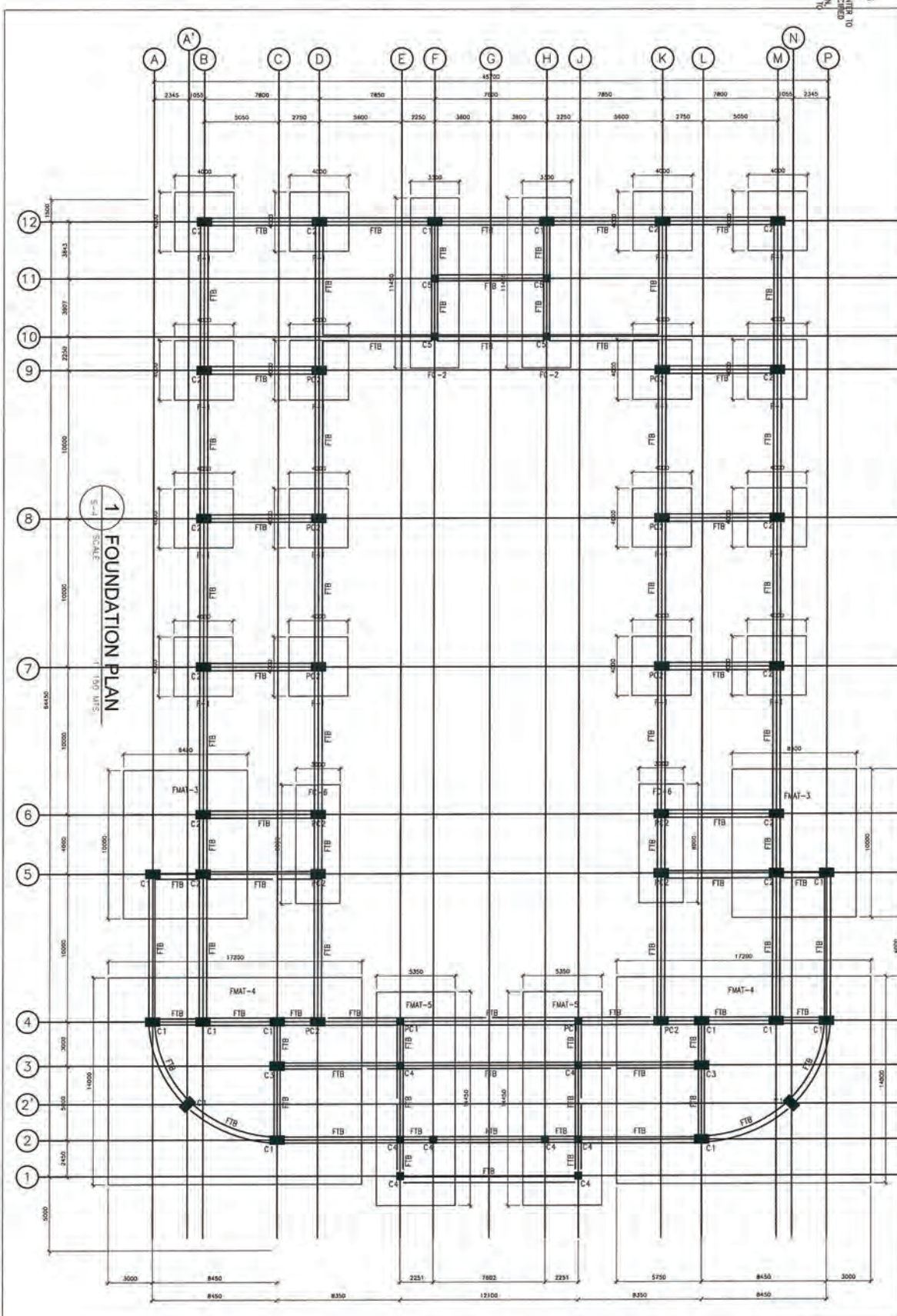
SHEI

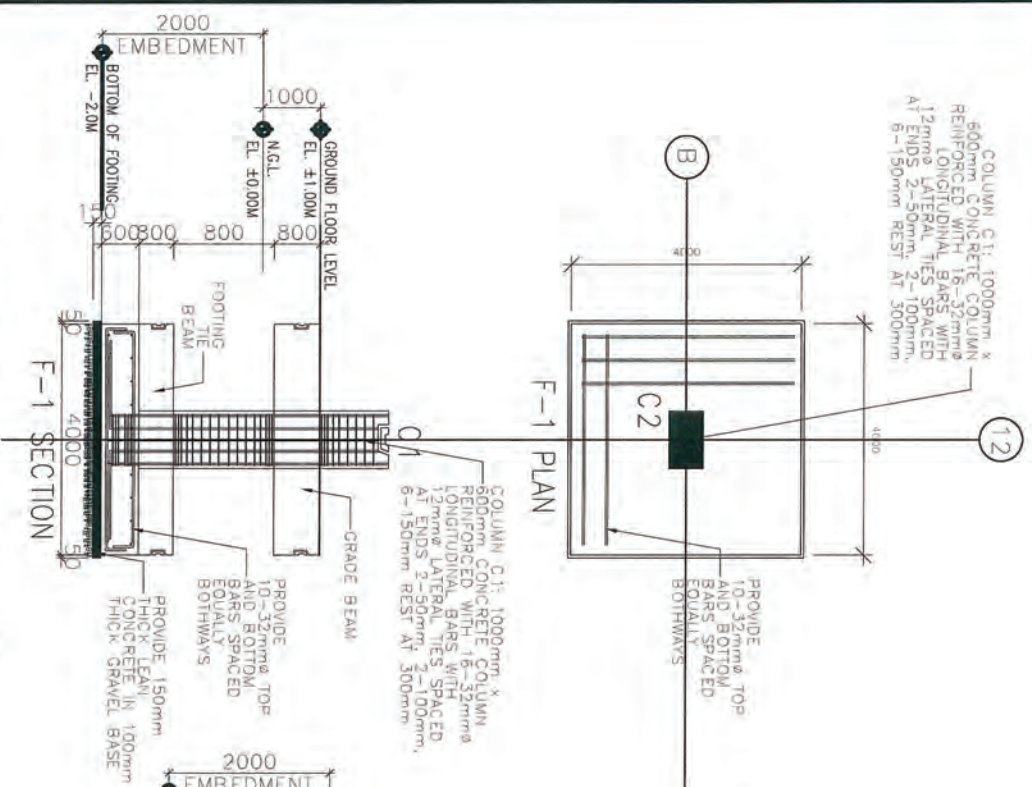
NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ALL COLUMNS ARE CENTER TO CENTER UNLESS OTHERWISE SPECIFIED
3. FOR SCHEMATES OF BEAM, COLUMN, WALL, FOOTING AND DETAILS REFER TO SHEET NO. 5-11

LEGEND:

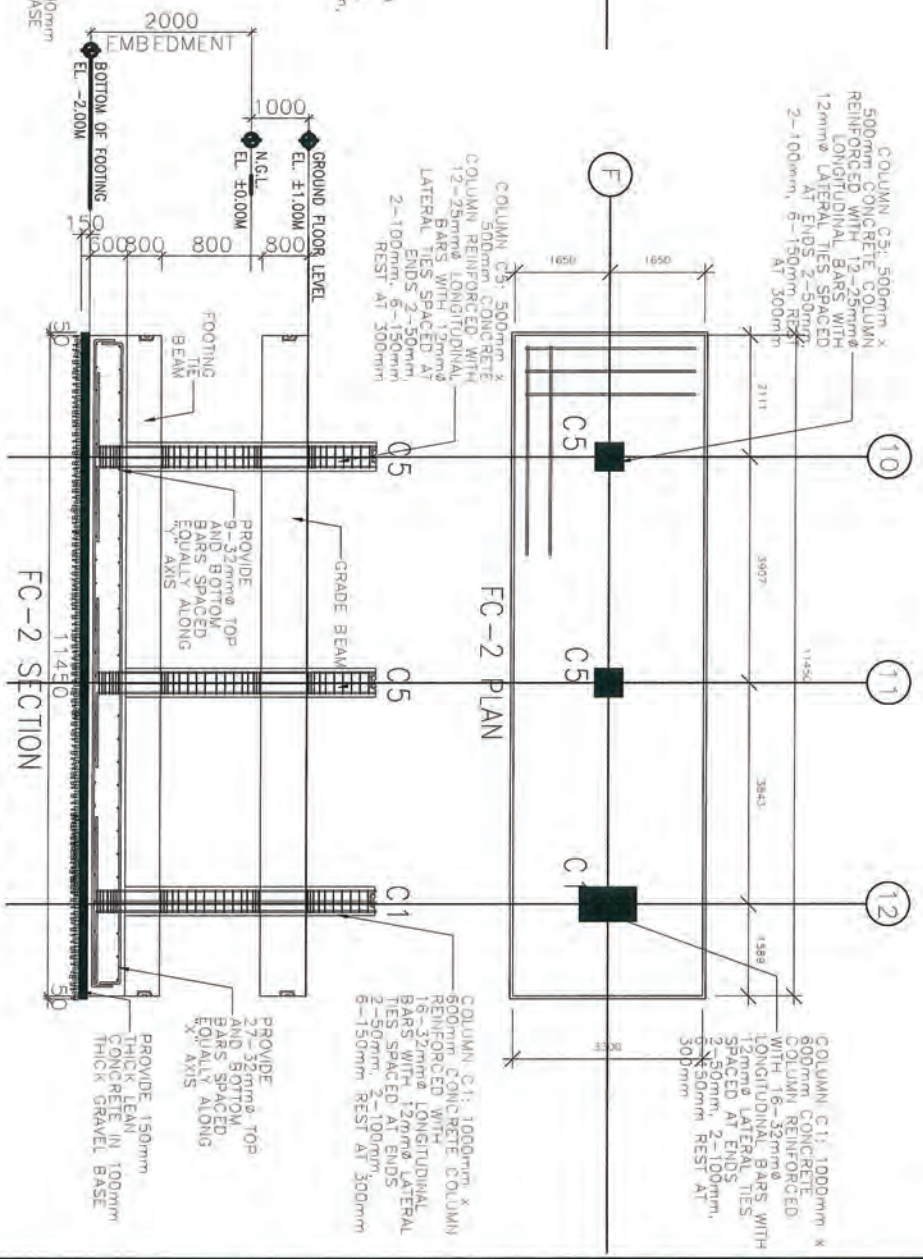
- 150 CMG WALL - XXXX





1 F-1 PLAN AND SECTION DETAILS

5-5 SCALE



2 FC-2 PLAN AND SECTION DETAILS

5-5 SCALE

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE REGIONAL DIRECTOR REGIONAL CITY OF SAN PABLO, PANAMA	PROJECT NAME AND LOCATION: CONSTRUCTION OF MILITARY TRAINING CENTER "MILITARY TRAINING CENTER"	SHEET CONTENTS: F-1 PLAN AND SECTION DETAILS FC-2 PLAN AND SECTION DETAILS	ENCLOSURE ENGINEER'S SEAL PREPARED BY ENGR. CARINA E. SAZCO SECTION CHIEF/DESIGNER	REVIEWED BY CARINA E. SAZCO SECTION CHIEF/DESIGNER	SUBMITTER ARTHUR D. SANTOS CHIEF, PLANNING AND DESIGN DIVISION	RECOMMENDED BY JES. GUAYANES Y. SITO, DOMINGO ASSISTANT REGIONAL DIRECTOR	APPROVED BY ROSEMARY A. TORIENTINO REGIONAL DIRECTOR	CONCURRED BY DR. ROY N. VILLARDO PRESIDENT, SAN PABLO STATE UNIVERSITY	RENO. 5 SHEET NO. 28
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**CONSTRUCTION OF
MULTI-PURPOSE BUILDING**
POSTING OF BIDDING QUALIFICATION REQUIREMENTS

FC-6 PLAN AND SECTION DETAILS
FMA-3 PLAN AND SECTION DETAIL

JOHN EDEL G. DIMARICUT
ENGINEER II

SECT


 MARINA G. G...
 ON CHIEF BRID

D
S. AOTHER

ARTHUR
PLANNING

SANTOS
AND DESIGN DIVISION

MELLOUAD
ASSISTANT

REGIONAL DIRECTOR

WGO	
R	

Jim
SOLLERA, TO

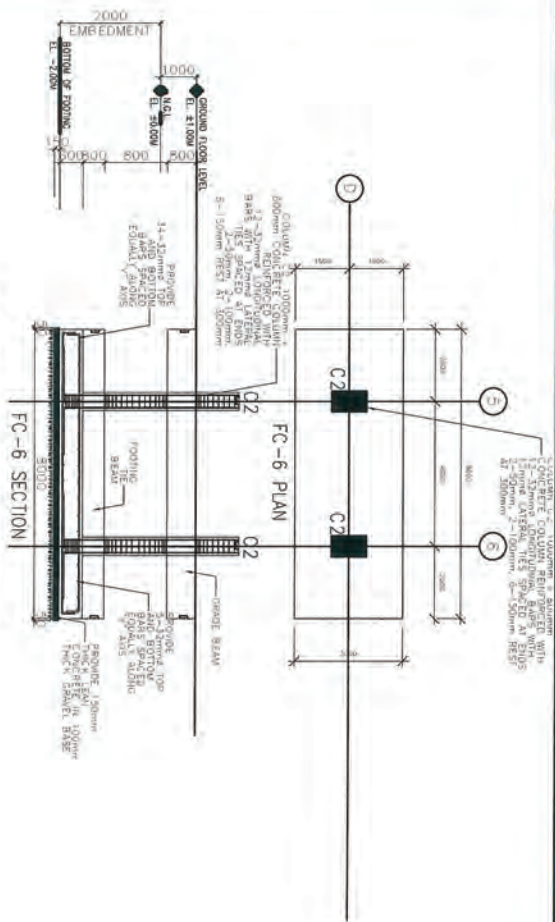
ENTINO
TOR

DR. ROY
UNIVERSITY

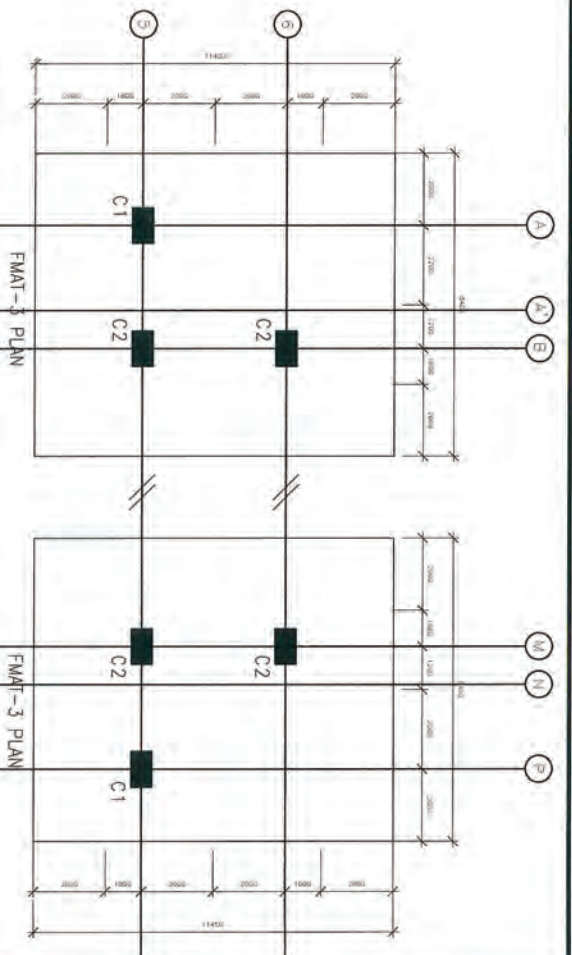
VILLALOBOS
V. PRESIDENT
NATIONAL ASSOCIATION OF
PUBLIC CHILD WELFARE ADMINISTRATORS

100

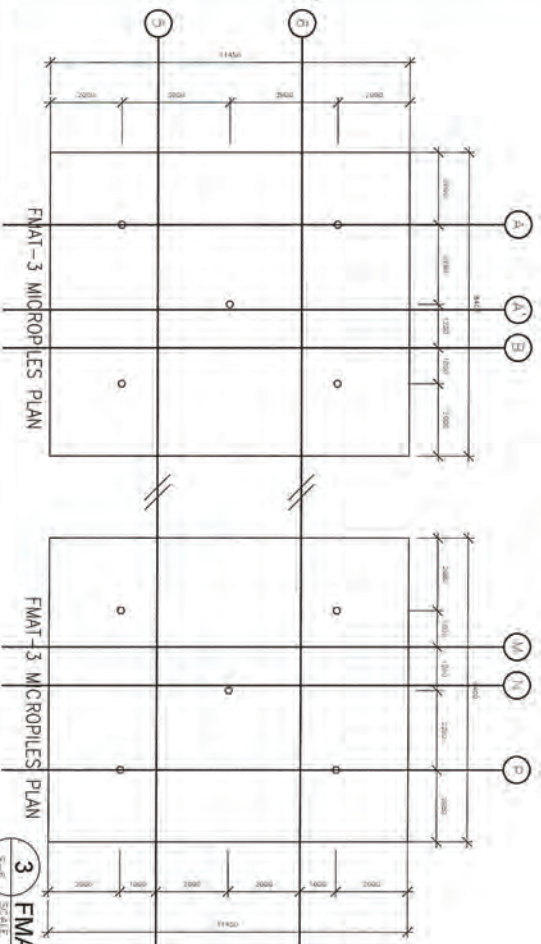
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1 FC-6 PLAN AND DETAILS



2 FMAT-3 PLAN AND DETAILS



3 FMAT-3 MICROPILES LAYOUT



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE REGIONAL DIRECTOR
REGION 8
BUKIDNON, CEBU, ZAMBOANGA, DAVAO, AND SULU

PROJECT NAME AND LOCATION:

SHEET CONTENTS:

ENCLOSURE

REVIEWED:

SUBMITTED:

RECOMMENDED:

APPROVED:

CONCURRED:

RETN.

SHEET NO.

CONSTRUCTION OF
NEW BRIDGE OVER
RIVER

FMAT-4 PLAN AND SECTION DETAILS

PREPARED BY
ENGR. [Signature]

DATE
[Date]

CHIEF, PLANNING AND DESIGN DIVISION

DATE
[Date]

ROSENBERG, A. TORILINO
REGIONAL DIRECTOR

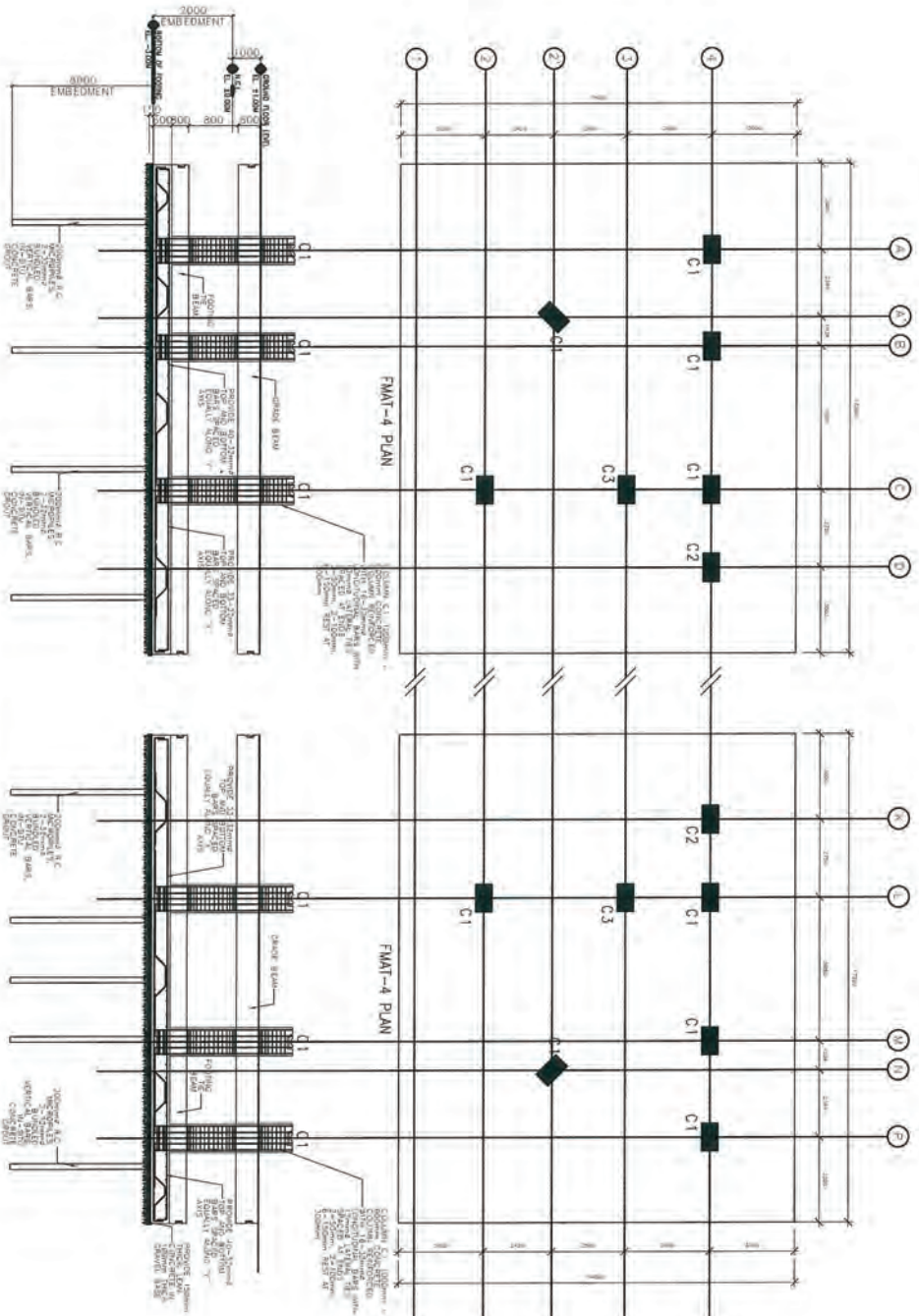
DR. ROY VILLALBA
PRESIDENT, BUKIDNON STATE UNIVERSITY

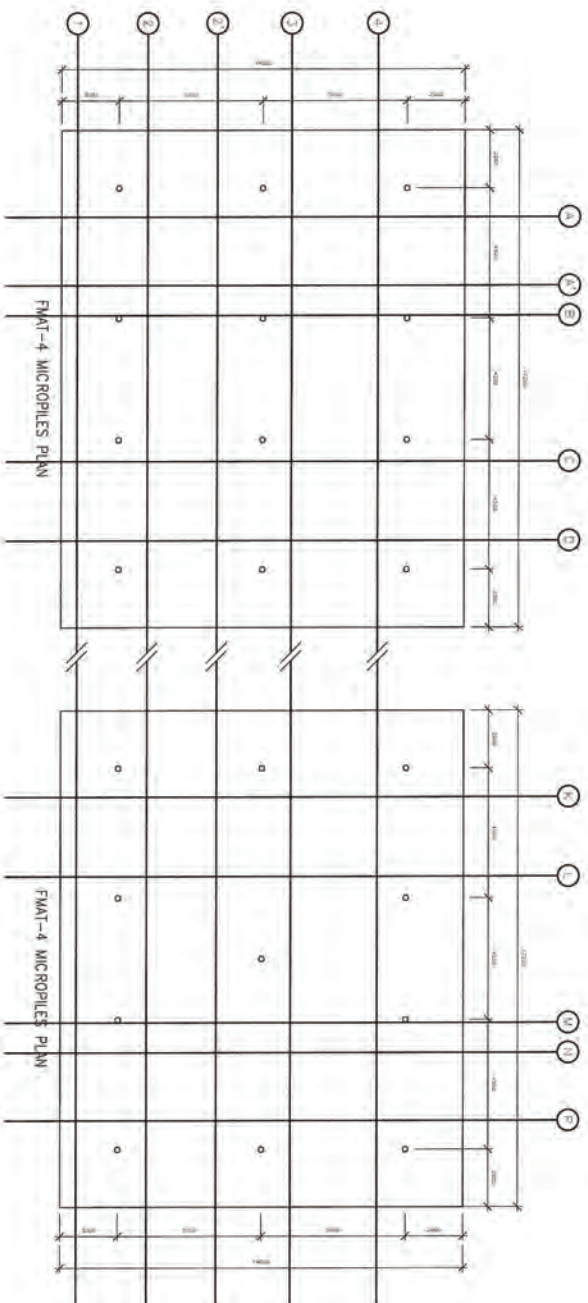
PRMSU

28

1 FMAT-4 PLAN AND DETAILS

SCALE
1" = 100' NTS





1 FMAT-4 MICROPILES LAYOUT
SCALE 1:1000 UNITS

 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION II OFFICE OF THE REGIONAL DIRECTOR MARIKINA CITY, MARIKINA, MARIKINA		PROJECT NAME AND LOCATION: CONSTRUCTION OF MULTI-PURPOSE BUILDING (SCHOOL BUILDING AND SPORTS CENTER)		SHEET CONTENTS: FMAT-4 MICROPILES LAYOUT		ENGINEER'S NAME <i>Engr. R. S. Santos</i> REGISTERED CIVIL ENGINEER		REVIEWED: <i>Engr. R. S. Santos</i> REGIONAL CHIEF ENGINEER & OTHER PUBLIC WORKS		SUBMITTED: <i>Engr. R. S. Santos</i> CHIEF, PLANNING AND DESIGN DIVISION		RECOMMENDED: <i>Engr. R. S. Santos</i> MANAGING ENGINEER, REGIONAL DIRECTOR		APPROVED: <i>Engr. R. S. Santos</i> REGIONAL DIRECTOR		CONCURRED: <i>Engr. R. S. Santos</i> MANAGING ENGINEER, STATE UNIVERSITY		SET NO. 3		SHEET NO. 28	
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL
OFFICE OF THE REGIONAL DIRECTOR
BACOLAN CITY OF SAN PEDRADO, PANAYAN

PROJECT NAME AND LOCATION

SHEET CONTENTS

ENCLOSURE

REVIEWED

SUBMITTED

RECOMMENDED

APPROVED

CONCURRED

SET NO.

SHEET NO.

CONSTRUCTION OF
MICROPILES AND SECTION DETAILS
FMAT-5 MICROPILES LAYOUT

ENGINEER
CARMAN, SAO
SECTION CHIEF/ENGINEER & OTHER
PUBLIC WORKS

CHIEF, PLANNING AND DESIGN DIVISION
DATE

DATE

DATE

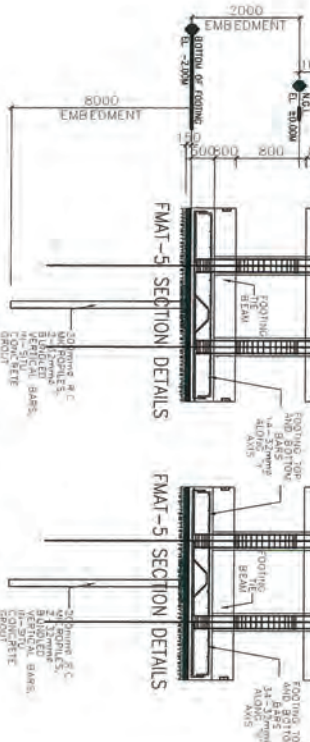
DATE

DATE

DATE

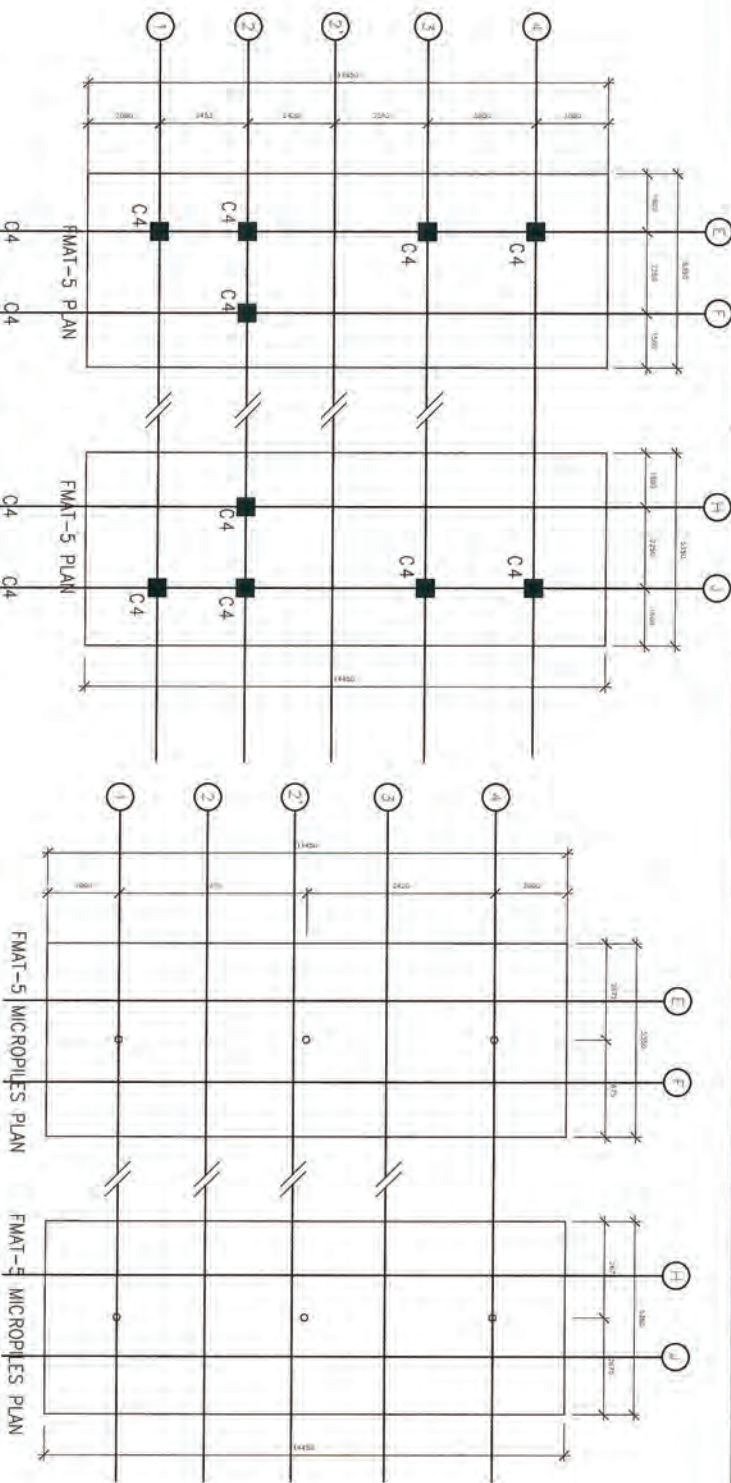
1 FMAT-5 PLAN AND DETAILS

1: 80 MTS



1 FMAT-5 MICROPILES LAYOUT

1: 80 MTS



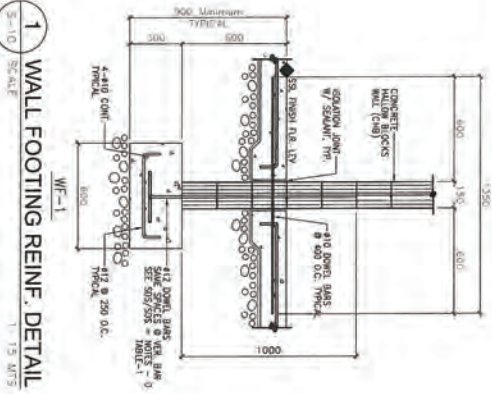
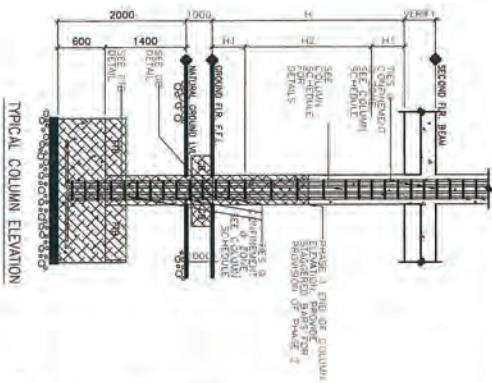
COLUMN SCHEDULE

COLUMN MARK	TYPE	SFT. DIM. (L x H)	VERT. REIN. LEND.	SFT. LEND.	MOORS (#12)		REMARK
					H1	H2	
C1	A	1000x600	16-#12	1280	2 @ 50	REST @ 300	FOUNDATION TO ROOF LEVEL
C2	B	1000x600	12-#12	1280	2 @ 50	REST @ 300	FOUNDATION TO ROOF LEVEL
C3	C	1000x600	20-#12	1280	2 @ 50	REST @ 300	FOUNDATION TO ROOF LEVEL
C4	D	500x500	12-#12	1000	2 @ 50	REST @ 300	FOUNDATION TO ROOF LEVEL
C5	E	500x500	16-#12	1000	2 @ 50	REST @ 300	FOUNDATION TO ROOF LEVEL
PC1	F	1000x600	12-#12	1000	2 @ 50	REST @ 300	FOUNDATION TO GRADE BEAM LEVEL
PC2	G	1000x600	16-#12	1280	2 @ 50	REST @ 300	FOUNDATION TO GRADE BEAM LEVEL

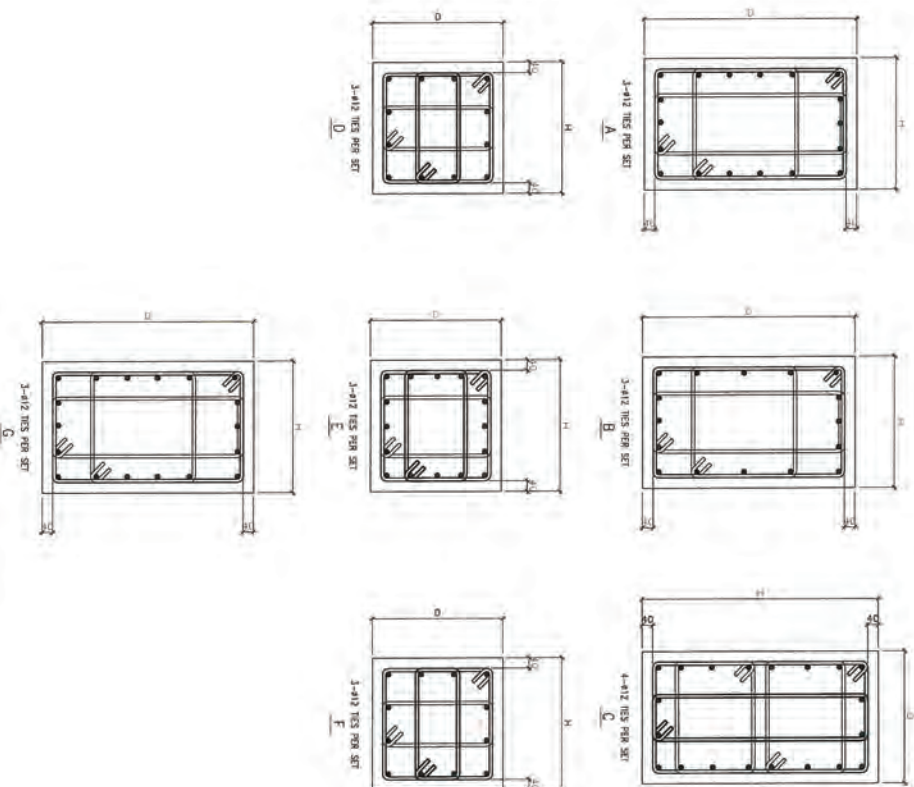
- NOTE:
1. F₁ = 4000 psi (27.58 MPa) @ 28 DAYS.
 2. REINFORCING STEEL: ASTM A615 GRADE 60.
 3. UP VERTICAL BARS IN COLUMNS 40 BAR DIA. OF BAR ABOVE (EXCEPT WHERE BUTT SPICE).
 4. CONCRETE PROTECTION - 40MM.
 5. DETAIL IN ACCORDANCE WITH ACI 308R-02 CODE 2015 OR ACI DETERMINED MINIMUM.

FOUNDATION SCHEDULE

MARK	DIMENSIONS		TOP AND BOTTOM BARS		REMARK
	W (X)	L (Y)	X	Y	
F-1	4000	4000	10-#12	10-#12	
FC-2	3500	11450	27-#12	9-#12	
FM-3	6400	10000	600	24-#12	20-#12
FM-4	14000	17200	600	40-#12	35-#12
FM-5	3500	14450	600	35-#12	11-#12
FC-6	3000	8000	600	19-#12	9-#12



2 COLUMN REINFORCEMENT DETAILS



REGIONAL OFFICE OF THE REGIONAL DIRECTOR
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION III
DIVISION OFFICE - MARIKINA CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF
MULTI-PURPOSE BUILDING
FOR REGIONAL GOVERNMENT OFFICES
MARIKINA CITY

SHEET CONTENTS:
COLUMN SCHEDULE
FOUNDATION SCHEDULE
TYPICAL COLUMN ELEVATION
COLUMN REINFORCEMENT DETAILS

ENGINEER
DESIGNED BY
CHECKED BY
DATE

REVIEWED
DATE

SUBMITTED
DATE

RECOMMENDED
DATE

APPROVED
DATE

CONCURRED
DATE

SET NO.
BHEET NO.



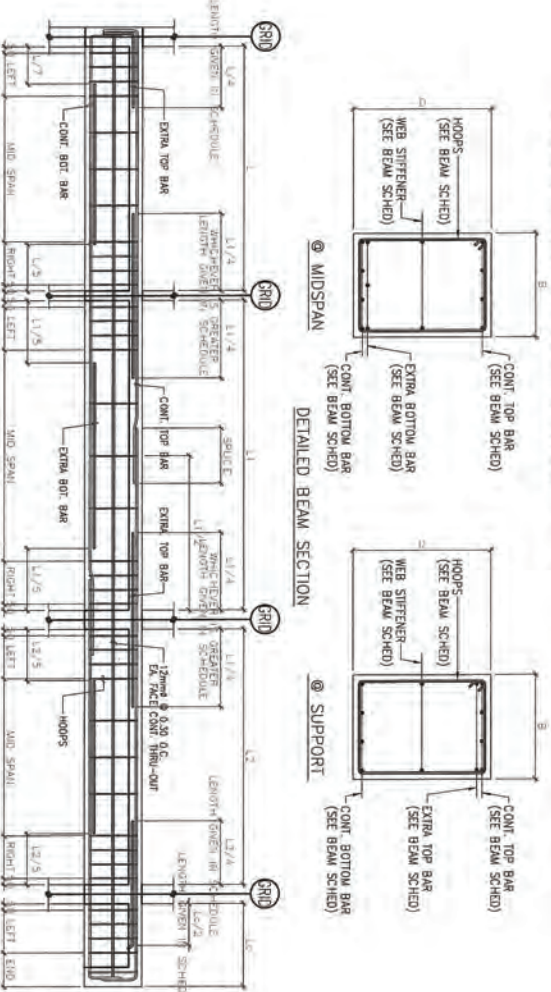
BEAM SCHEDULE

BEAM MARK	SIZE B X D	SECTION	ELEVATION	CONT. TOP BAR	EXTRA TOP BAR		CONT. BOTTOM BAR	WEB SPLITTER	HOOKS (#10)			
					LEFT	RIGHT			LEFT	MID	RIGHT	
FTB	600x800	-	-	5-#25	FOOTING TIE BEAMS			4-#25	2-#25 E.F.	12 @ 130	@ 265	12 @ 130

GRADE BEAMS

GB-1	600x800	-	-	6-#25	4-#25	4-#25	6-#25	4-#25	-	14 @ 150	@ 300	14 @ 150
GB-2	600x800	-	-	6-#25	-	-	5-#25	-	-	14 @ 150	@ 300	14 @ 150
GB-3	600x800	-	-	-	6-#25	-	4-#25	-	-	14 @ 150	@ 300	14 @ 150
GB-4	600x800	-	-	6-#25	-	-	4-#25	-	-	14 @ 150	@ 300	14 @ 150
GB-5	600x800	-	-	-	-	-	4-#25 E.F.	-	-	14 @ 150	@ 300	14 @ 150
GB-6	600x800	-	-	6-#25	-	-	4-#25	-	-	14 @ 150	@ 300	14 @ 150

- NOTE: 1. EXTRA BAR @ CANTILEVER SHALL BE EXTENDED 1/4 L TO ADJACENT SPAN. THE 1/4 L IS ALREADY INCLUDED IN THE SCHEDULE.
2. THE DIRECTION OF LEFT OR RIGHT NOTATION IN THE SCHEDULE SHALL FOLLOW THE MANNER BEAM MARK WAS ORIENTED IN THE FRAMING PLAN.
3. THE EXTRA TOP BAR FOR CANTILEVER SHALL BE ALWAYS AT THE SUPPORT SIDE.
4. LENGTH OF BAR INDICATED IN THE SCHEDULES INCLUDES HOOKS.



1 TYPICAL CONCRETE BEAM ELEVATION & SCHEDULES

SCALE



DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION 8
OFFICE OF THE REGIONAL DIRECTOR
SIOGUAH CITY OF SAN BERNARDO, PAMPANGA

PROJECT NAME AND LOCATION

SHEET CONTENTS

REVIEWED

RECOMMENDED

APPROVED

CONCURRED

DATE

DATE

DATE

DATE

CONSTRUCTION OF
MULTI-PURPOSE BUILDING

BEAM SCHEDULE
TYPICAL CONCRETE BEAM ELEVATION
& SCHEDULE

PREPARED BY: *[Signature]*
ENGINEER

REVIEWED BY: *[Signature]*
SECTION CHIEF, PROGRESS & OTHER
PUBLIC WORKS

RECOMMENDED BY: *[Signature]*
CHIEF PLANNING AND DESIGN DIVISION

APPROVED BY: *[Signature]*
REGIONAL DIRECTOR

CONCURRED BY: *[Signature]*
PRESIDENT, SIOGUAH CITY

DATE

DATE

DATE

5

11

28



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION II
OFFICE OF THE REGIONAL DIRECTOR
MARIKINA CITY, SAN FERNANDO, PAMPANGA

PROJECT NAME AND LOCATION:
CONSTRUCTION OF
MULTI-PURPOSE BUILDING
MARIKINA CITY, SAN FERNANDO, PAMPANGA

SHEET CONTENTS:
GROUND FLOOR FRAMING PLAN

DESIGNED BY:
ENGR. *[Signature]*
CHECKED BY:
ENGR. *[Signature]*

REVIEWED:
CARINA C. BAYO
SECTION CHIEF, BRIDGES & OTHER
PUBLIC WORKS

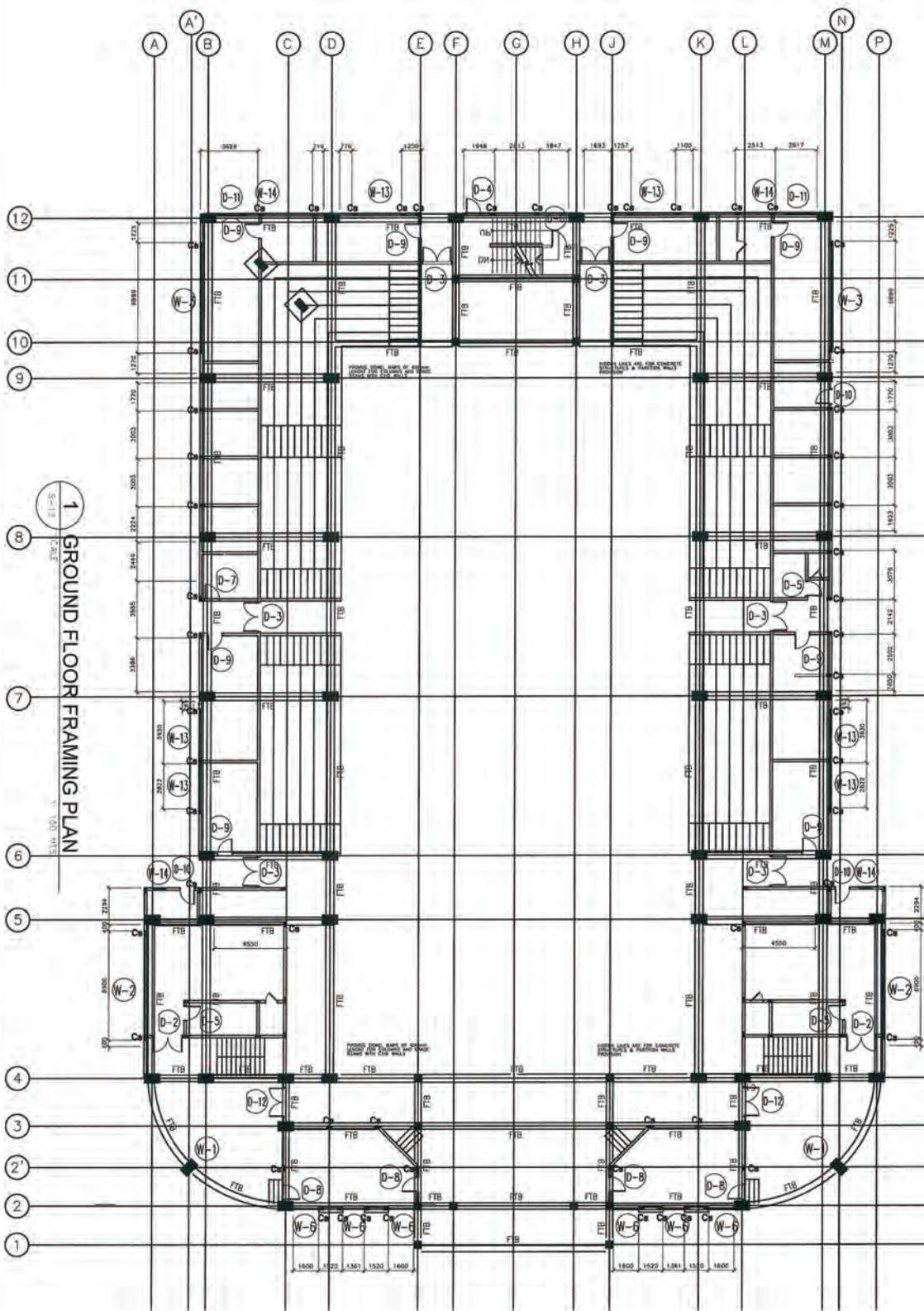
SUBMITTED:
ARTHUR D. SANTOS
CHIEF, PLANNING AND DESIGN DIVISION

RECOMMENDED:
MARIA LUISA H. VITO DOMINGO
ASSISTANT REGIONAL DIRECTOR

APPROVED:
ROSALBA JOYENTINO
REGIONAL DIRECTOR

CONCURRED:
DR. ROY N. VILLALBA
PRESIDENT, REGIONAL BOARD
STATE UNIVERSITY

SET NO.
S
BRNSU
SHEET NO.
12
28





REGIONAL OFFICE OF THE REGIONAL DIRECTOR
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION 8
MARIKINA CITY, ANTIPOL, PHILIPPINES

PROJECT NAME AND LOCATION:
CONSTRUCTION OF
MULTI-PURPOSE BUILDING
FOR THE REGIONAL DIRECTOR
OFFICE

SHEET CONTENTS:
SECOND FLOOR PLAN

ENGINEER:
JOHN E. SANCHEZ
REGISTERED PROFESSIONAL ENGINEER
NO. 10101

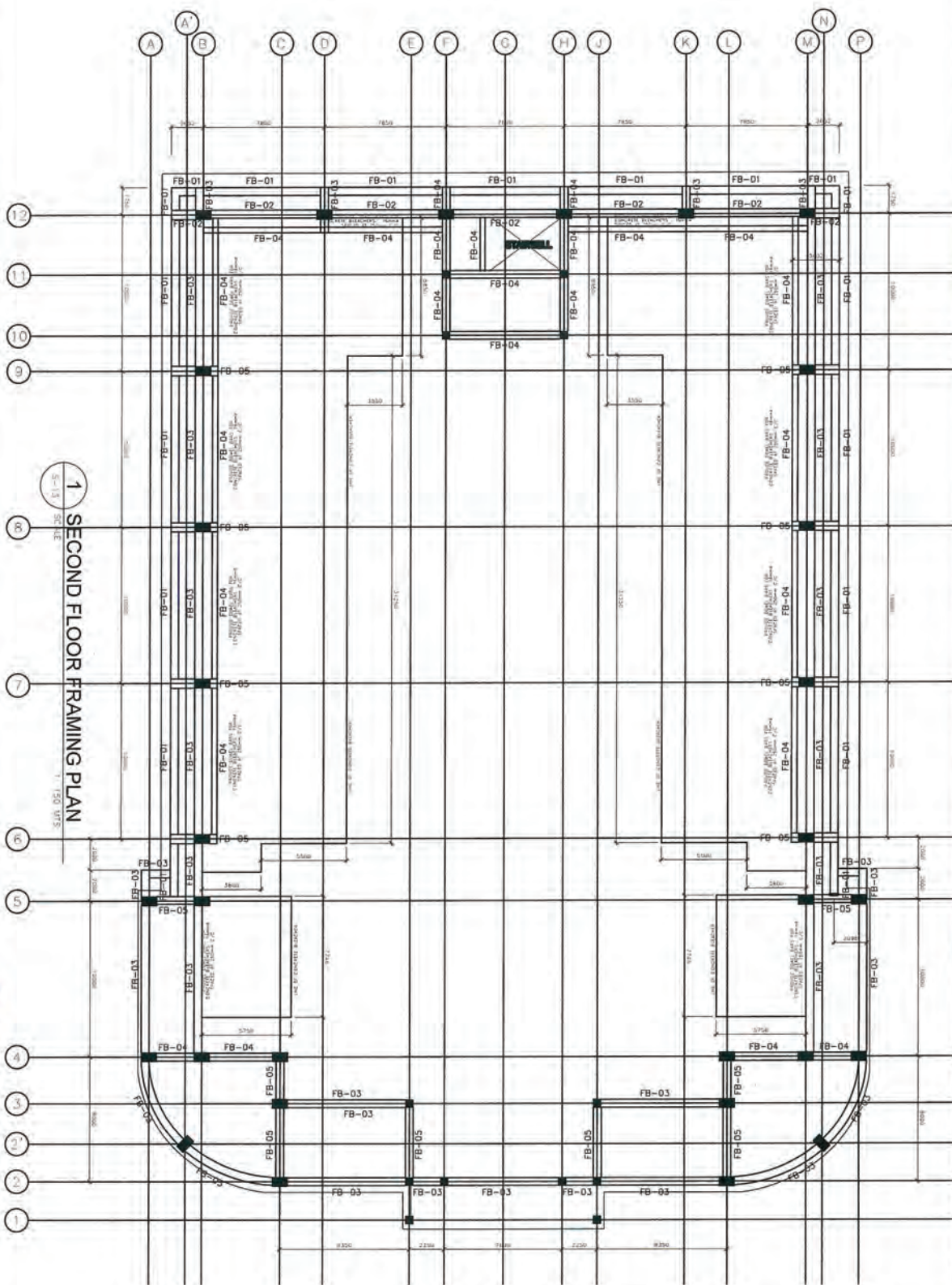
REVIEWED:
CARLOS C. SANCHEZ
SECTION CHIEF, DIVISION OF
PUBLIC WORKS

SUBMITTED:
ARTHUR D. SANTOS
CHIEF, PLANNING AND DESIGN DIVISION

RECOMMENDED:
MARILYN A. SANCHEZ
MANAGING REGIONAL DIRECTOR

APPROVED:
ROBERTO A. SANCHEZ
REGIONAL DIRECTOR

CONCURRED:
DR. ROY N. VILLALBA
PRESIDENT, REGIONAL UNIVERSITY
SYSTEM





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION II
OFFICE OF THE REGIONAL DIRECTOR
MARIKINA CITY, SAN FERNANDO, PAMPANGA

PROJECT NAME AND LOCATION:
CONSTRUCTION OF
MULTI-PURPOSE BUILDING
MARIKINA CITY, SAN FERNANDO, PAMPANGA

SHEET CONTENTS:
BLEACHERS FOUNDATION PLAN

ENGINEER:
JOHN EDEL Z. DOMINILLO
DATE: 10/10/2018

REVIEWED:
CARINA C. SANO
PUBLIC WORKS
DATE: 10/10/2018

SUBMITTED:
ARTHURIO SANTOS
CHIEF, PLANNING AND DESIGN DIVISION
DATE: 10/10/2018

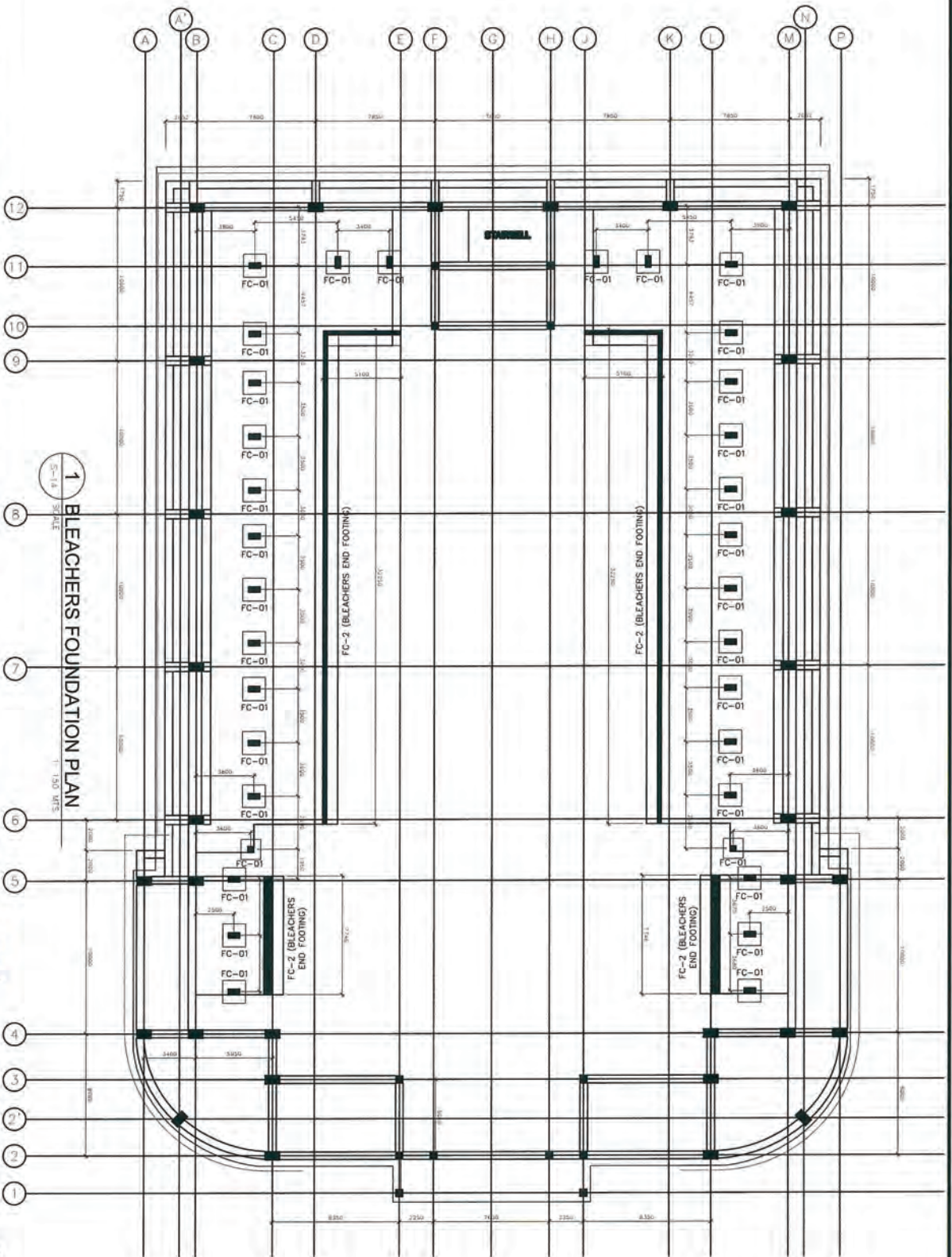
RECOMMENDED:
MARILYN A. SASTO, DOMINILLO
ASSISTANT REGIONAL DIRECTOR
DATE: 10/10/2018

APPROVED:
ROSALBA A. TOLENTINO
REGIONAL DIRECTOR
DATE: 10/10/2018

CONCURRED:
DR. ROY N. VILLALOBOS
PRESIDENT, MARICOPA UNIVERSITY
DATE: 10/10/2018

SET NO.
S

SHEET NO.
14





REGIONAL OFFICE OF THE REGIONAL DIRECTOR
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION III
MARIKINA CITY

PROJECT NAME AND LOCATION
CONSTRUCTION OF
MULTI-PURPOSE BUILDING
MARIKINA CITY

SHEET CONTENTS
BLEACHERS COLUMN LAYOUT

ENGINEER
PREPARED BY
SECTION CHIEF, REGIONAL OFFICE
DATE

REVIEWED
CARINA C. GAZO
SECTION CHIEF, REGIONAL OFFICE
DATE

SUBMITTED
ARTHUR O. SANTOS
CHIEF, PLANNING AND DESIGN DIVISION
DATE

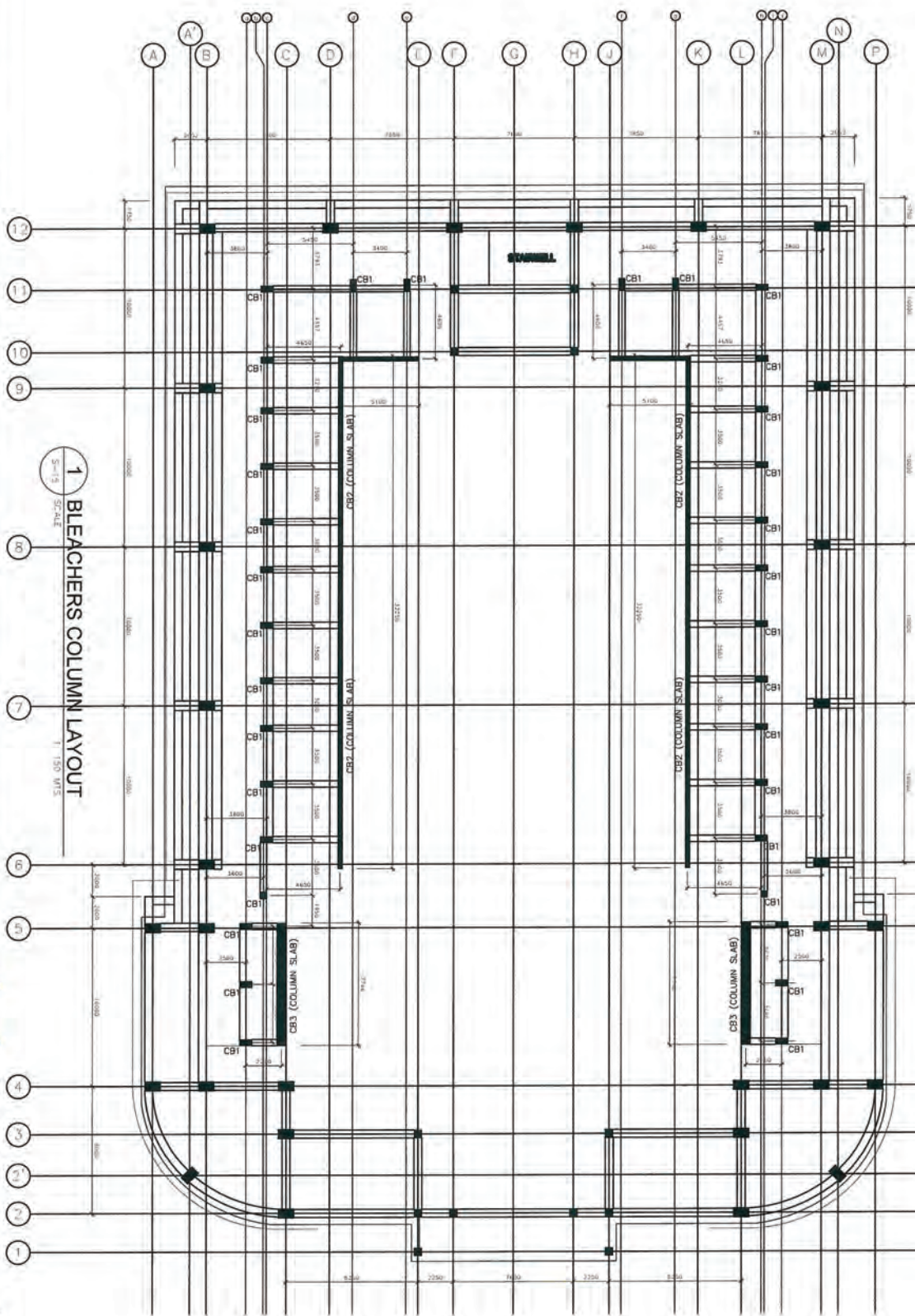
RECOMMENDED
MELQUIESDA LITO DOMINGO
REGIONAL DIRECTOR
DATE

APPROVED
ROBERTA A. TORRES
REGIONAL DIRECTOR
DATE

CONCLUDED
DR. ROY N. VILLALOBOS
PRESIDENT, MARIKINA CITY
DATE

SET NO.
S

SHEET NO.
15





REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE REGIONAL DIRECTOR
BAGUIO, CITY OF BAGUIO, PANGASINAN

PROJECT NAME AND LOCATION:

SHEET CONTENTS:

ENCLOSURE
CHECKED BY
ENGINEER

REVIEWED:

SUBMITTED:

RECOMMENDED:

APPROVED:

CONCURRED:

SET NO.

SHEET NO.

CONSTRUCTION OF
MAINTENANCE ROAD
ALONG THE SIDE OF NATIONAL
HIGHWAY NO. 100

BLOW-UP CROSS SECTION

PREPARED BY
ENGR. CARINA C. SANTIAGO
SECTION CHIEF/DESIGNER & OTHER
PUBLIC WORKS

DATE

ARTURO R. SANTOS
CHIEF, PLANNING AND DESIGN DIVISION

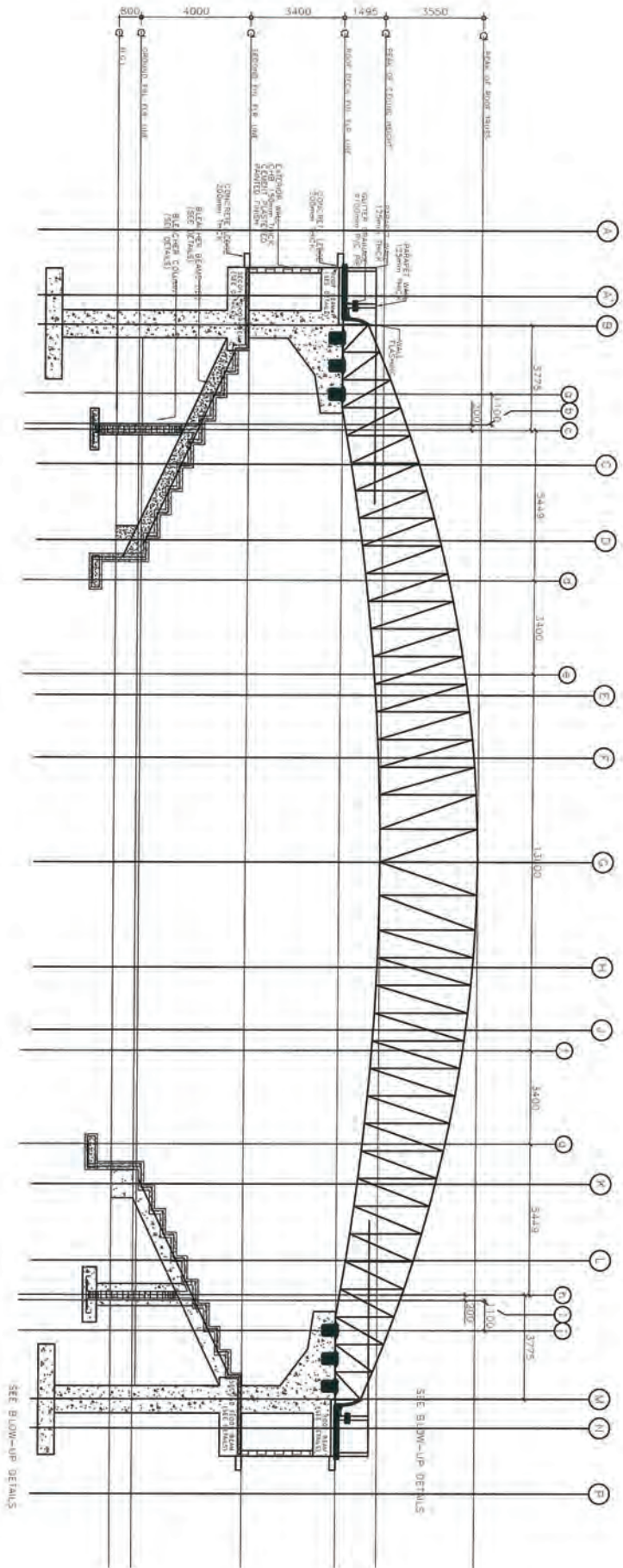
MELODY L. S. DOMINGO
VARIANT NATIONAL DIRECTOR

ROSELYN A. LORENTINO
REGIONAL DIRECTOR

DR. ROY N. VILLALBA
UNIVERSITY PRESIDENT
STATE UNIVERSITY

S

16



1 BLOW-UP CROSS SECTION
1:50 VERT
3:16 HORIZ



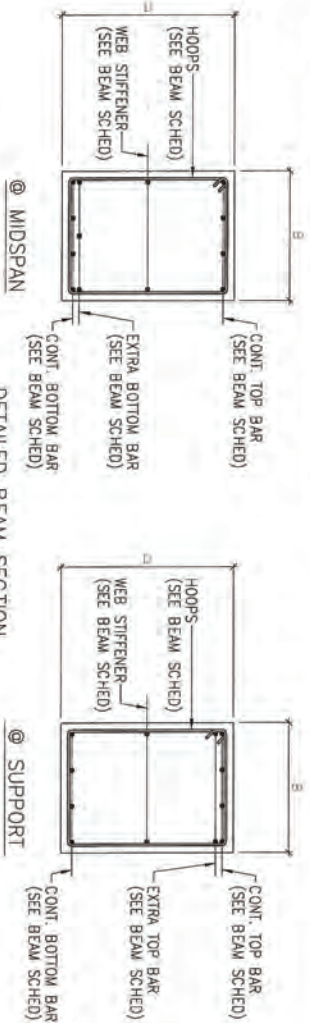
 REGIONAL OFFICE OF THE REGIONAL DIRECTOR DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS MARIKINA CITY, SAN FERNANDO, PANGASINAN		PROJECT NAME AND LOCATION: CONSTRUCTION OF MULTISTORIED BUILDING WITH STAIRCASE AND ELEVATOR FOR THE REGIONAL DIRECTOR		SHEET CONTENTS: TRUSS BEAM CONNECTION BLOWUP DETAILS BLUENOBS DETAIL BLOWUP DETAILS BLUENOBS DETAIL BLOWUP DETAILS BLUENOBS DETAIL BLOWUP DETAILS		ENCLOSED: 1. GENERAL SPECIFICATIONS 2. DRAWINGS 3. BIDDING DOCUMENTS 4. BIDDING FORMS 5. BIDDING ENVELOPES 6. BIDDING ENVELOPES 7. BIDDING ENVELOPES 8. BIDDING ENVELOPES 9. BIDDING ENVELOPES 10. BIDDING ENVELOPES 11. BIDDING ENVELOPES 12. BIDDING ENVELOPES 13. BIDDING ENVELOPES 14. BIDDING ENVELOPES 15. BIDDING ENVELOPES 16. BIDDING ENVELOPES 17. BIDDING ENVELOPES 18. BIDDING ENVELOPES 19. BIDDING ENVELOPES 20. BIDDING ENVELOPES 21. BIDDING ENVELOPES 22. BIDDING ENVELOPES 23. BIDDING ENVELOPES 24. BIDDING ENVELOPES 25. BIDDING ENVELOPES 26. BIDDING ENVELOPES 27. BIDDING ENVELOPES 28. 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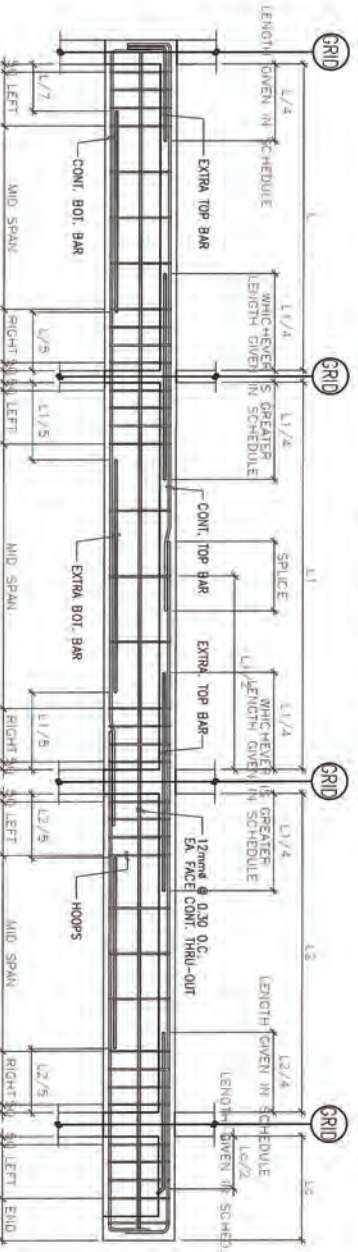
SECOND LEVEL BEAM SCHEDULE

BEAM MARK	SIZE B X D	SECTION	ELEVATION	CONT. TOP BAR	EXTRA TOP BAR		BOTTOM BAR		WEB STIFFENER	HOOPS (#10 OR #12)			
					LEFT	RIGHT	CONT.	EXTRA		LEFT	MID	RIGHT	
SECOND FLOOR BEAMS													
FB-01	400X800	-	-	6-#25	-	-	3-#25	2-#25	4-#20 E.F.	10 @ 95	@ 180	10 @ 95	-
FB-02	500X800	-	-	5-#32	4-#32	4-#32	5-#32	2-#32	6-#25 E.F.	12 @ 95	@ 200	12 @ 95	-
FB-03	500X800	-	-	4-#32	-	-	4-#32	-	4-#25 E.F.	10 @ 95	@ 200	10 @ 95	-
FB-04	300X450	-	-	4-#25	-	-	4-#25	-	2-#25 E.F.	10 @ 95	@ 200	10 @ 95	-
FB-05	600X800	-	-	6-#32	-	-	5-#32	-	4-#25 E.F.	12 @ 95	@ 200	12 @ 95	-

- NOTE: 1. EXTRA BAR @ CANTILEVER SHALL BE EXTENDED $1/4 L$ TO ADJACENT SPAN. THE $1/4 L$ IS ALREADY INCLUDED IN THE SCHEDULE.
2. THE DIRECTION OF LEFT OR RIGHT NOTATION IN THE SCHEDULE SHALL FOLLOW THE MANNER BEAM MARK WAS ORIENTED IN THE FRAMING PLAN.
3. THE EXTRA TOP BAR FOR CANTILEVER SHALL BE ALWAYS AT THE SUPPORT SIDE.
4. LENGTH OF BAR INDICATED IN THE SCHEDULES INCLUDES HOOKS.



DETAILED BEAM SECTION
@ MIDSPAN
@ SUPPORT



1 TYPICAL CONCRETE BEAM ELEVATION & SCHEDULES
S-18 NOT TO SCALE



REGIONAL OFFICE OF THE REGIONAL DIRECTOR
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION II
BIDJALAN CITY OF SAN FERNANDO, PAMPANGA

PROJECT NAME AND LOCATION
CONSTRUCTION OF
MULI-TAPANGS BULIDING
MULI-TAPANGS BULIDING
MULI-TAPANGS BULIDING

SHEET CONTENTS
SECOND FLOOR BEAM SCHEDULE

ENGINEER
PREPARED BY
CHECKED BY
DATE

REVIEWED
CARINA O. GAZO
SECTION CHIEF, ARCHITECT & OTHER
PUBLIC WORKS
DATE

SUBMITTED
ARTHUR D. SANTOS
CHIEF, PLANNING AND DESIGN DIVISION
DATE

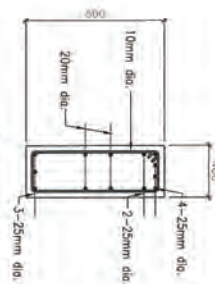
RECOMMENDED
MELODY A. DELA CRUZ
ASSISTANT REGIONAL DIRECTOR
DATE

APPROVED
ROSALBERTA L. ENTINO
REGIONAL DIRECTOR
DATE

CONCLUDED
DR. ROY N. VILLALBA
PRESIDENT, REGIONAL ASSOCIATION
STATE UNIVERSITY
DATE

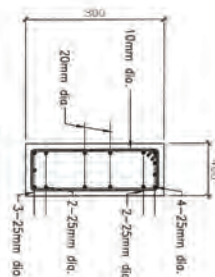
SET NO.
S
SHEET NO.
18
28

NOTE: 1. EXTRA BAR @ CANTILEVER SHALL BE EXTENDED 1/4 L TO ADJACENT SPAN. THE 1/4 L IS ALREADY INCLUDED IN THE SCHEDULE.
 2. THE SECTION OF THE BEAM SHALL BE EXTENDED 1/4 L TO ADJACENT SPAN. THE 1/4 L IS ALREADY INCLUDED IN THE SCHEDULE.
 3. THE EXTRA TOP BAR FOR CANTILEVER SHALL BE ALWAYS 1/4 L TO ADJACENT SPAN.
 4. LENGTH OF BAR INDICATED IN THE SCHEDULES INCLUDES HOOKS.

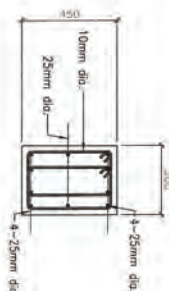


@ SUPPORT

FB-01 DETAILED BEAM SECTION

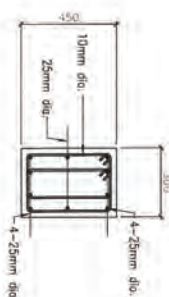


@ MIDSPAN

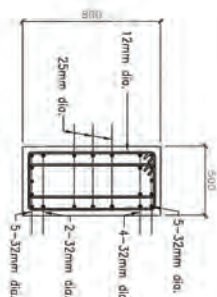


@ SUPPORT

FB-04 DETAILED BEAM SECTION

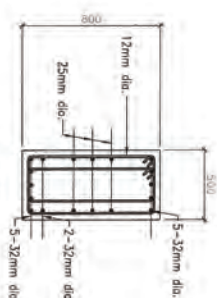


@ MIDSPAN

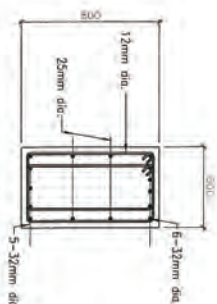


@ SUPPORT

FB-02 DETAILED BEAM SECTION

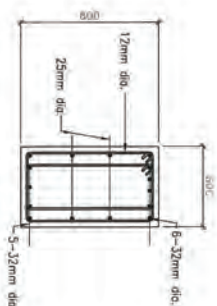


@ MIDSPAN

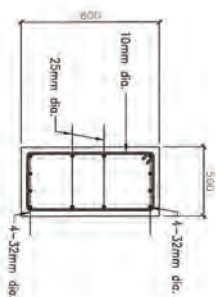


@ SUPPORT

FB-05 DETAILED BEAM SECTION

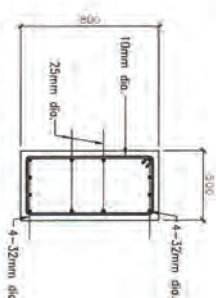


@ MIDSPAN



@ SUPPORT

FB-03 DETAILED BEAM SECTION



@ MIDSPAN

SCHEDULE OF SLAB

MARK	THICKNESS	REBAR DIA.	ALONG SHORT SPAN			ALONG LONG SPAN			REMARKS
			TOP CUT BAR	BOTTOM MAIN CRANKED BAR	TOP DIST. BAR	TOP CUT BAR	BOTTOM MAIN CRANKED BAR	TOP DIST. BAR	
S-1	125mm	10mm	150mm	150mm	150mm	150mm	150mm	150mm	STEEL DECK SLAB
S-2	125mm	10mm	150mm	150mm	150mm	150mm	150mm	150mm	STEEL DECK SLAB
SG	100mm	10mm	150mm	150mm	150mm	150mm	150mm	150mm	CONCRETE GUTTER



REGION II
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 OFFICE OF THE REGIONAL DIRECTOR
 MARIKINA CITY

PROJECT NAME AND LOCATION:
 CONSTRUCTION OF
 MULTIPURPOSE BUILDING
 (Marikina City)

SHEET CONTENTS:
 SECOND FLOOR BEAM DETAILS

ENGINEER:
 PREPARED BY:
 CHECKED BY:
 DATE:

REVIEWED:
 CARINA C. GAZO
 SECTION CHIEF, ENGINEER & OTHER
 PUBLIC WORKS
 DATE:

SUBMITTED:
 ARTURO D. SANTOS
 CHIEF, PLANNING AND DESIGN DIVISION
 DATE:

RECOMMENDED BY:
 MELBOURNE H. SOTO DOMINGO
 ASSISTANT REGIONAL DIRECTOR
 DATE:

APPROVED:
 ROSELENE TORREALBA
 REGIONAL DIRECTOR
 DATE:

CONCURRENCE:
 DR. ROY N. VILLARDO
 PRESIDENT, MARIKINA CITY
 DATE:

SET NO.
 5

SHEET NO.
 19

28



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION II
OFFICE OF THE REGIONAL DIRECTOR
MARIKINA CITY, SAN FERNANDO, PAMPANGA

PROJECT NAME AND LOCATION:
CONSTRUCTION OF
MULTI-PURPOSE BUILDING
FOR THE REGIONAL DIRECTOR'S OFFICE

SHEET CONTENTS:
SECOND FLOOR SUSPENDED SLAB
PLAN

ENGINEER
CARMELITA M. GARCIA
ENGINEER II
PREPARED BY
CARMELITA M. GARCIA
CHECKED BY
CARMELITA M. GARCIA
DATE

REVIEWED
CARINA C. GAZO
SECTION CHIEF, ARCHITECTS & OTHER
PUBLIC WORKS
DATE

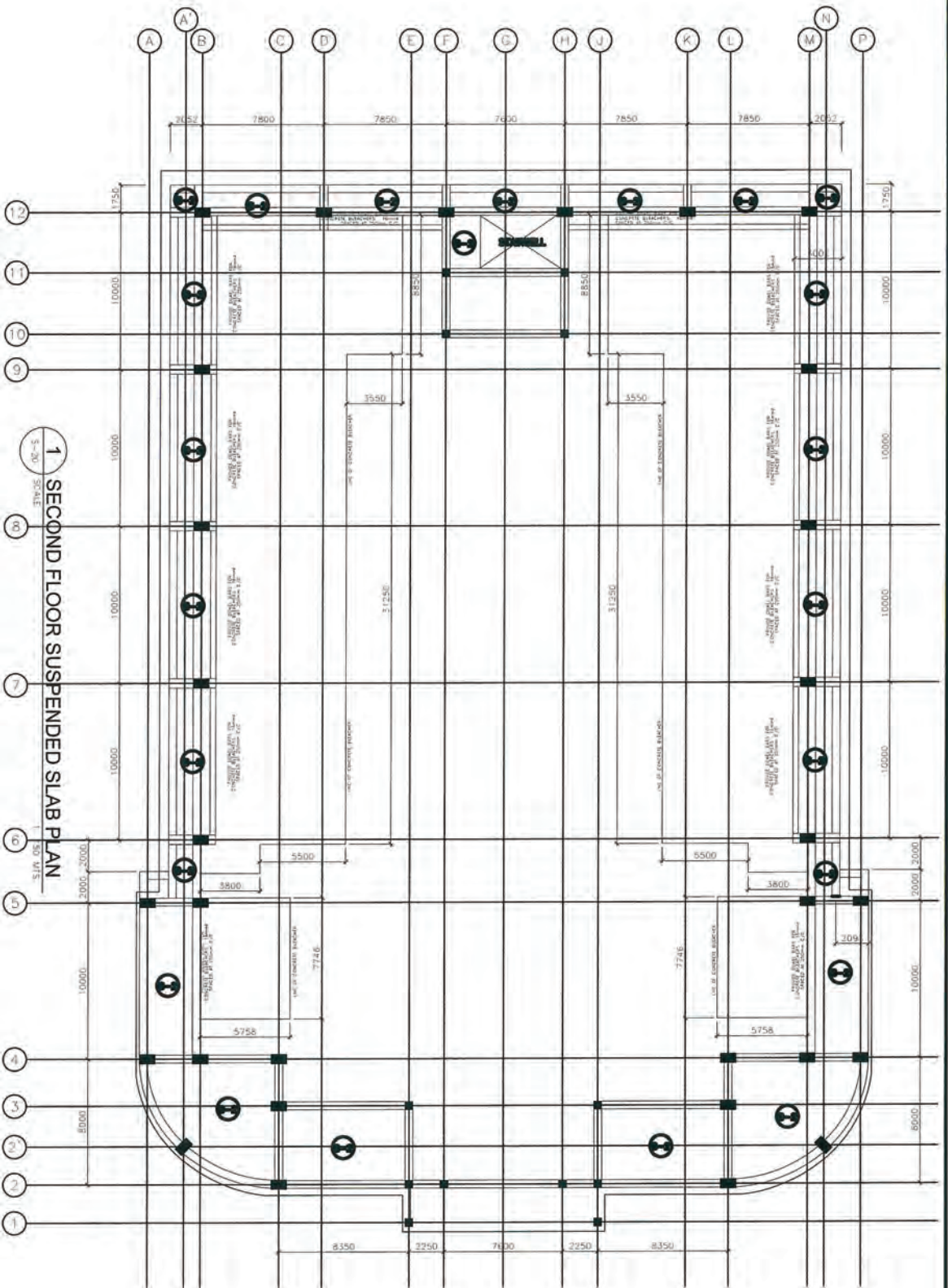
SUBMITTED
ARTHUR L. SANTOS
CHIEF, PLANNING AND DESIGN DIVISION
DATE

RECOMMENDED
MELANIE L. DELA CRUZ
ARCHITECT, REGIONAL DIRECTOR
DATE

APPROVED
ROSEMARIA T. BERNARDINO
REGIONAL DIRECTOR
DATE

CONCURRED
DR. ROY N. VILLALBA
PRESIDENT, MARICOPA UNIVERSITY
DATE

SET NO.
S
PRISMU
SHEET NO.
20
28





MULTI-PURPOSE BUILDING
PROGRESSIVE RESEARCH INSTITUTE AT AND UNIVERSITY

ROOF BEAM FRAMING PLAN

WINTER AT SAGUITE

REVIEWED:

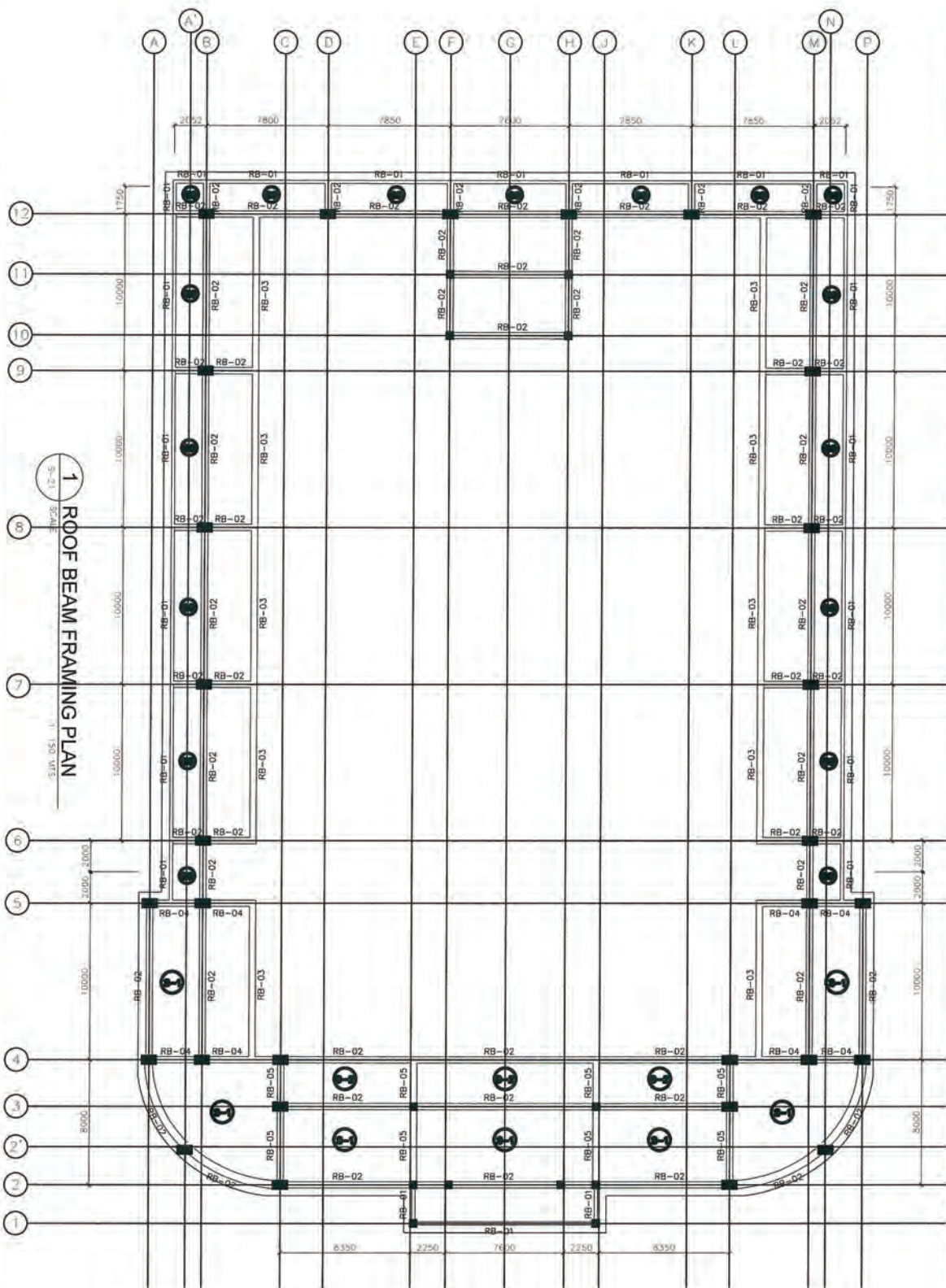
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RECOMMENDED

APPROVED _____

~~CONCURRED~~

SET NO.	SHEET NO.
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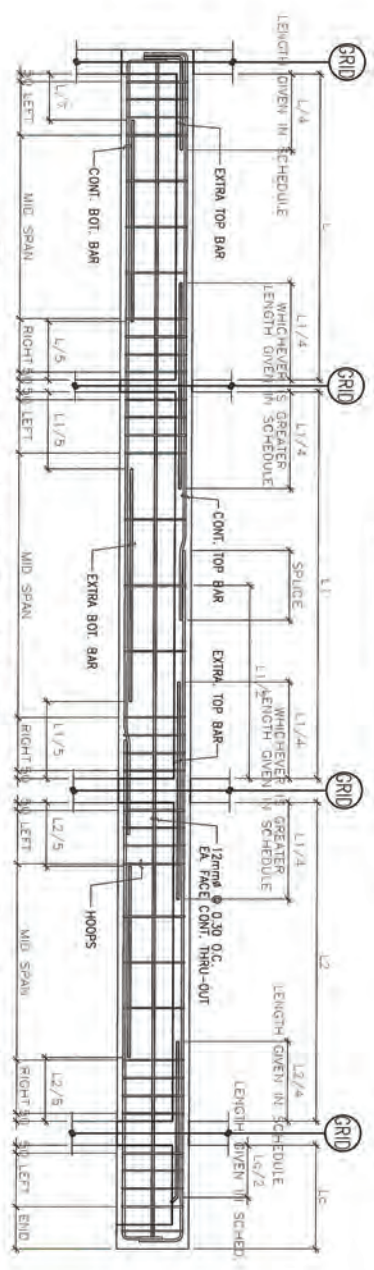
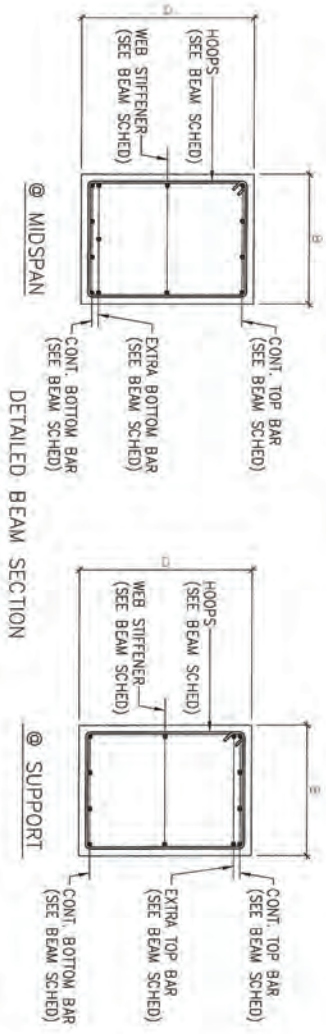




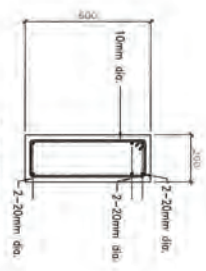
ROOF BEAM SCHEDULE

BEAM MARK	SIZE B X D	SECTION	ELEVATION	CONT. TOP BAR	EXTRA TOP BAR		BOTTOM BAR	WEB STIFFENER	HOOPS (#10 OR #12)		
					LEFT	RIGHT			CONC.	EXTRA	LEFT
SECOND FLOOR BEAMS											
RB-01	200X600	-	-	2-#20	2-#20	2-#20			10 @ 165	165	10 @ 165
RB-02	400X800	-	-	4-#20	2-#20	4-#20	4-#20	E.F.	10 @ 120	265	10 @ 120
RB-03	300X600	-	-	3-#20	2-#20	3-#20	3-#20	E.F.	10 @ 190	190	10 @ 190
RB-04	400X800	-	-	4-#20	4-#20	4-#20	4-#20	E.F.	10 @ 140	160	10 @ 140
RB-05	600X800	-	-	5-#20	2-#20	5-#20	4-#20	E.F.	10 @ 120	265	10 @ 120
CB-01	B1330X1000	-	-	6-#20	2-#20	2-#20	6-#20		10 @ 120	265	10 @ 120

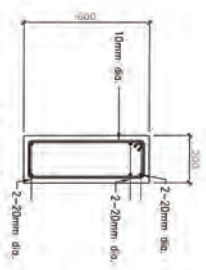
NOTE: 1. EXTRA BAR @ CANTILEVER SHALL BE EXTENDED 1/4 L TO ADJACENT SPAN. THE 1/4 L IS ALREADY INCLUDED IN THE SCHEDULE.
2. THE DIRECTION OF LEFT OR RIGHT NOTATION IN THE SCHEDULE SHALL FOLLOW THE MANNER BEAM MARK WAS ORIENTED IN THE FRAMING PLAN.
3. THE EXTRA TOP BAR FOR CANTILEVER SHALL BE ALWAYS AT THE SUPPORT SIDE.
4. LENGTH OF BAR INDICATED IN THE SCHEDULES INCLUDES HOOKS.



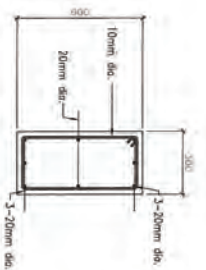
NOTE: 1. EXTRA BAR @ CANTILEVER SHALL BE EXTENDED 1/4 L TO ADJACENT SPAN. THE 1/4 L IS ALREADY INCLUDED IN THE SCHEDULE.
 2. THE DIRECTION OF LEFT OR RIGHT NOTATION IN THE SCHEDULE SHALL FOLLOW THE MAIN BEAM MARK WAS ORIENTED IN THE TRACING PLAN.
 3. THE EXTRA TOP BAR FOR CANTILEVER SHALL BE ALWAYS AT THE SUPPORT SIDE.
 4. LENGTH OF BAR INDICATED IN THE SCHEDULE INCLUDES HOOKS.



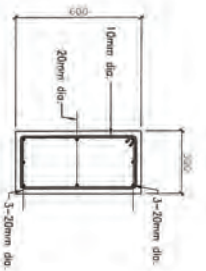
RB-01 SUPPORT



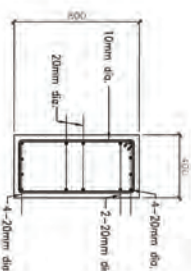
RB-01 MIDSPAN



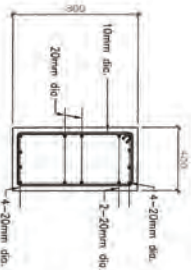
RB-03 SUPPORT



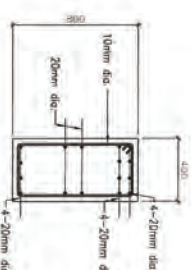
RB-03 MIDSPAN



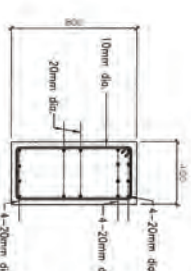
RB-02 SUPPORT



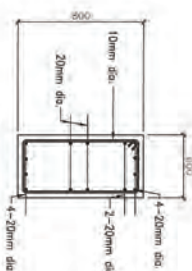
RB-02 MIDSPAN



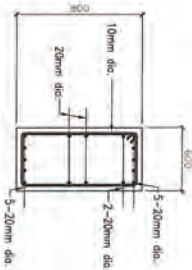
RB-04 SUPPORT



RB-04 MIDSPAN



RB-05 SUPPORT



RB-05 MIDSPAN

SCHEDULE OF SLAB

MARK	THICKNESS	REBAR DIA.	ALONG SHORT SPAN		ALONG LONG SPAN		REMARKS
			TOP CUT BAR	BOTTOM MAIN CRANKED BAR	TOP CUT BAR	BOTTOM MAIN CRANKED BAR	
S-1	120mm	10mm	180mm	180mm	180mm	180mm	STEEL DECK SLAB
S-2	120mm	10mm	180mm	180mm	180mm	180mm	STEEL DECK SLAB
CG	100mm	10mm	180mm	180mm	180mm	180mm	CONCRETE CUTTER



REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 OFFICE OF THE REGIONAL DIRECTOR
 REGIONAL CITY OF SANTERAMO, MARAWA

PROJECT NAME AND LOCATION
 CONSTRUCTION OF
 ROOF BEAM DETAILS
 ROOF BEAM DETAILS
 SLAB SCHEDULE

ENGINEER
 RICHARD M. SANTOS
 CIVIL ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
 NO. 12345
 DATE

REVIEWED
 CARINA C. GAZO
 SECTION CHIEF/ENGINEER & OTHER
 PUBLIC WORKS
 DATE

SUBMITTED
 ARTHUR J. SANTOS
 CHIEF, PLANNING AND DESIGN DIVISION
 DATE

RECOMMENDED
 METALWORKS & ETO DOMINGO
 ASSISTANT REGIONAL DIRECTOR
 DATE

APPROVED
 ROSEL VERA TORRENTINO
 REGIONAL DIRECTOR
 DATE

CONCLUDED
 DR. ROY N. VILLALOBOS
 PRESIDENT RAMON MARIANO VILLALBA
 STATE UNIVERSITY
 DATE



PROJECT NAME AND LOCATION:	CONSTRUCTION OF MULTI-PURPOSE BUILDING INDOCHINA KAMON INDUSTRIAL ZONE UNIT
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	SHEET CONTENTS:
	TRUSS FRAMING PLAN

ENCLOSURE
HARVEY M. BRIDE
ENGINEER II
PREPARED BY: *John Edel*
JOHN EDEL, Q. DIMARQUIT

REVIEWED:	
SECTION CHIEF/ADDRESSEE & OTHER	CARINA C. GAZO

SUBMITTED

ARTHUR O. SANTOS
CHIEF, PLANNING AND DESIGN DIVISION

RECOMMENDED:

MELOLADES H. STO. DOMINGO
ASSISTANT REGIONAL DIRECTOR

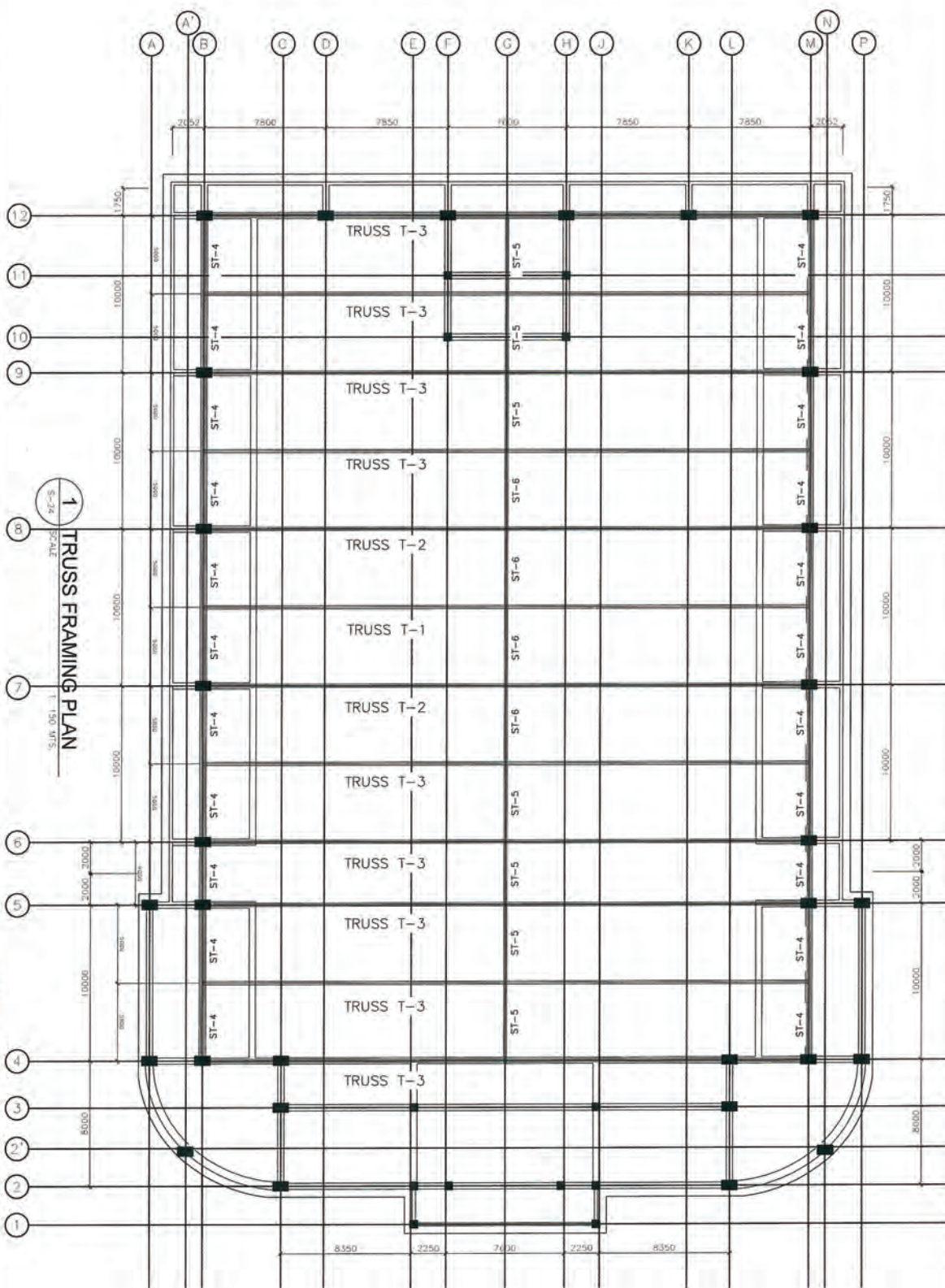
APPROVED: 
ROSELLIER K. TOLENTINO
 REGIONAL DIRECTOR

CONCURRED:



DR. ROY N. VILLALOBOS
UNIVERSITY PRESIDENT
PRESIDENT RAMON MAGSAYSAY

SET NO.	SHEET NO.
S	24
PRMSII	28





REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE REGIONAL DIRECTOR
BIDUAH, CITY OF SAN FERNANDO, PAMPANGA

CONSTRUCTION OF
MULTI-PURPOSE BUILDING
PROJECT THROUGH INVESTMENT PROMOTION

PROJECT NAME AND LOCATION:

SHEET CONTENTS:

ROOF FRAMING PLAN

ENGINEER'S NAME

REVIEWED

SUBMITTED

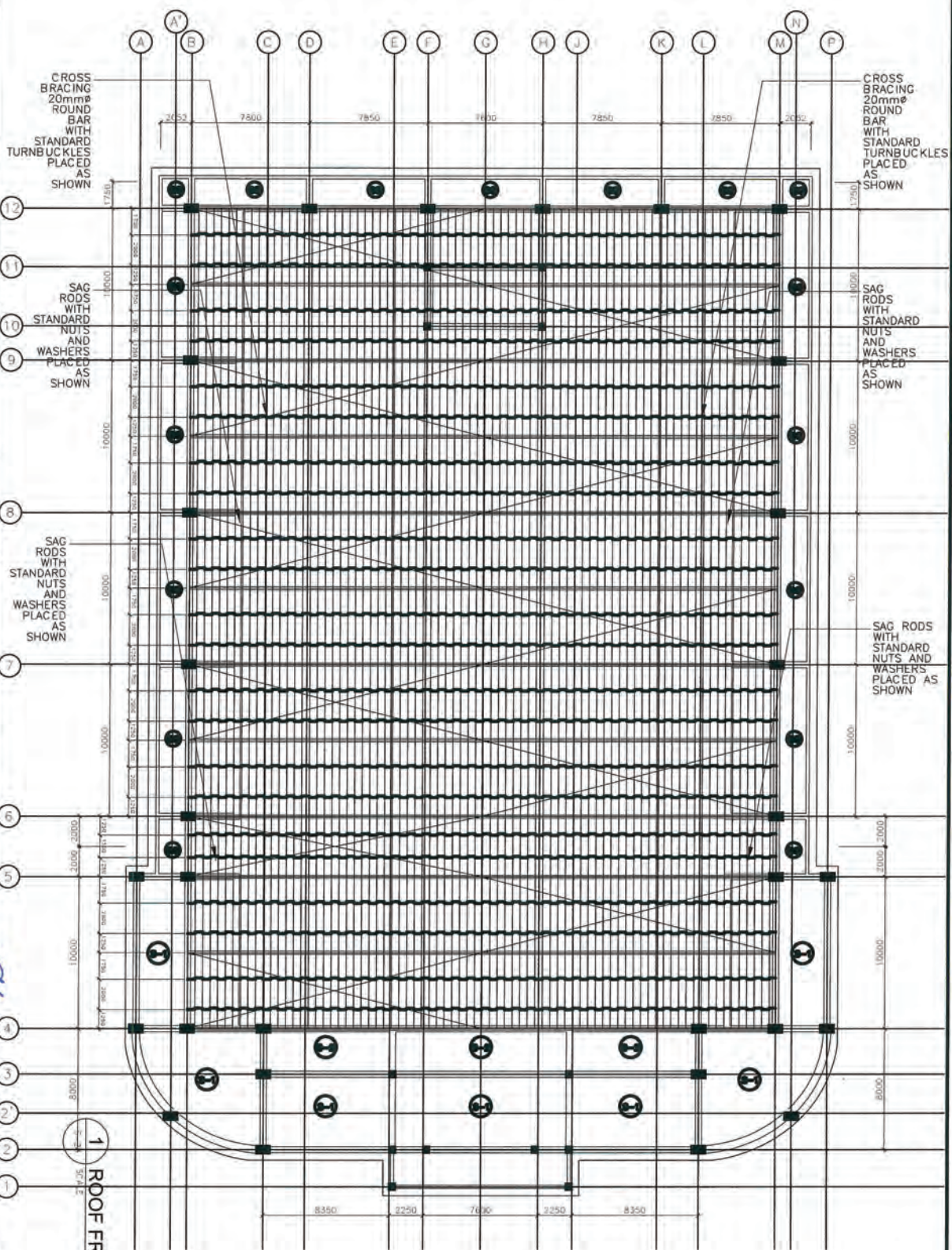
RECOMMENDED

APPROVED

CONCLUDED

SHEET NO.

SHEET NO.



1 ROOF FRAMING PLAN
1-150 MTS

DR. ROY N. VALLAROSA
PRESIDENT RABAN MANABATAY
STATE UNIVERSITY
PRINSU
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