

PROPOSED REHABILITATION OF THE
RIZAL MEMORIAL BADMINTON HALL
RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO ST., VITO CRUZ, MANILA

ENGR. PEDRO I. PINEDA JR.

HEAD, ENGINEERING SECTION

HON. WILLIAM I. RAMIREZ

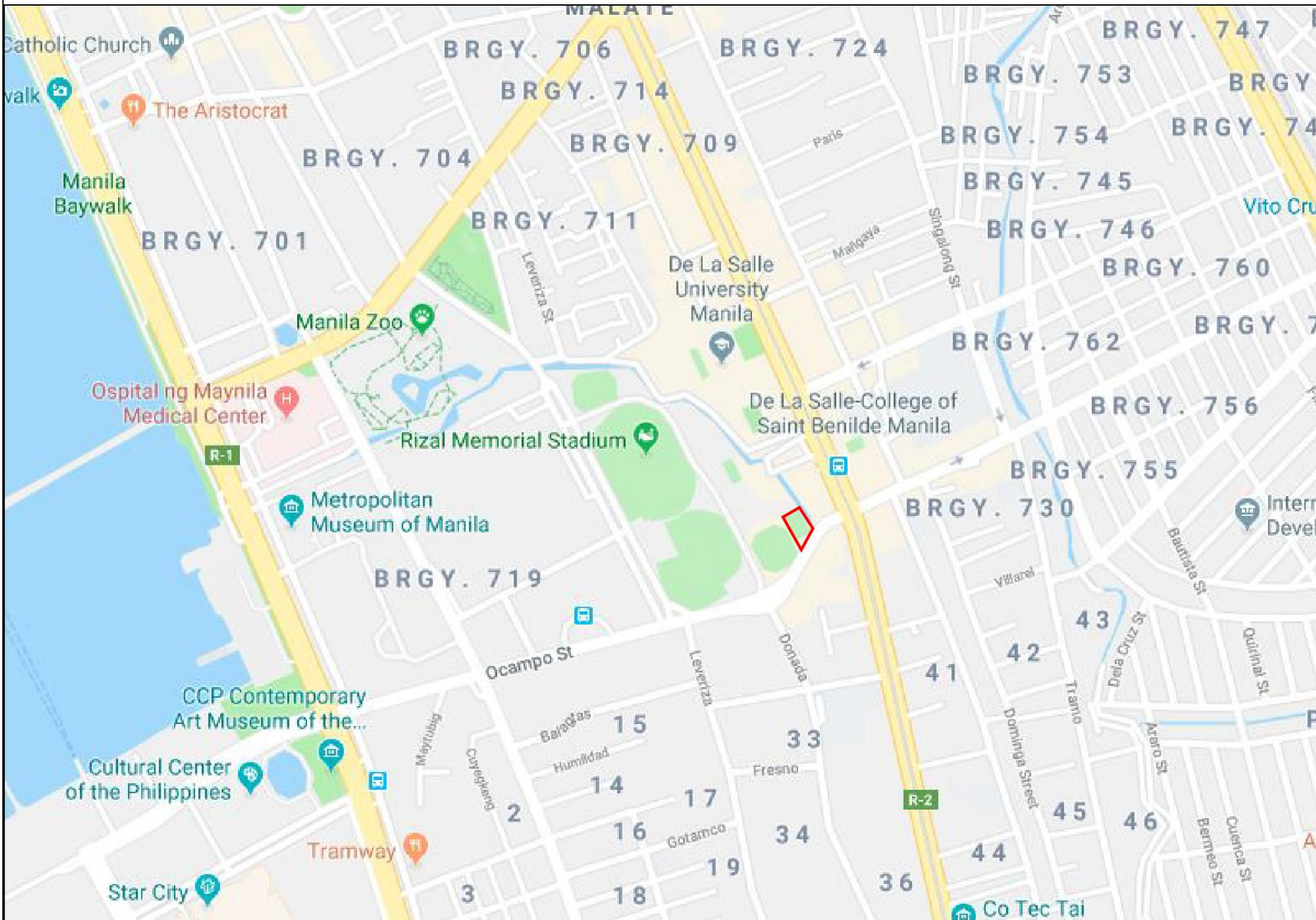
CHAIRMAN

DIR. MERLITA R. IBAY

OIC, EXECUTIVE DIRECTOR



1
A0-02 PERSPECTIVE
SCALE NTS



2
A0-02 LOCATION MAP
SCALE NTS



3
A0-02 VICINITY MAP
SCALE NTS

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- P0-06 CISTERN AND SEPTIC TANK DETAIL AND EQUIPMENT SCHEDULE

OFFICE OF THE BUILDING OFFICIAL

CITY / DISTRICT / MUNICIPALITY

ARCHITECT

STRUCTURAL ENGINEER

ELECTRICAL ENGINEER

MECHANICAL ENGINEER

SANITARY ENGINEER

MASTER PLUMBER



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:

REHABILITATION OF THE
RIZAL MEMORIAL BADMINTON HALL

LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:

ENGR. PEDRO I. PINEDA JR.

HEAD, ENGINEERING SECTION

RECOMMENDING APPROVAL:

DIR. MERLITA R. IBAY

OIC, EXECUTIVE DIRECTOR

APPROVED BY:

HON. WILLIAM I. RAMIREZ

CHAIRMAN

SHEET CONTENTS:

PERSPECTIVE
LOCATION MAP
VICINITY MAP

DESIGN BY:

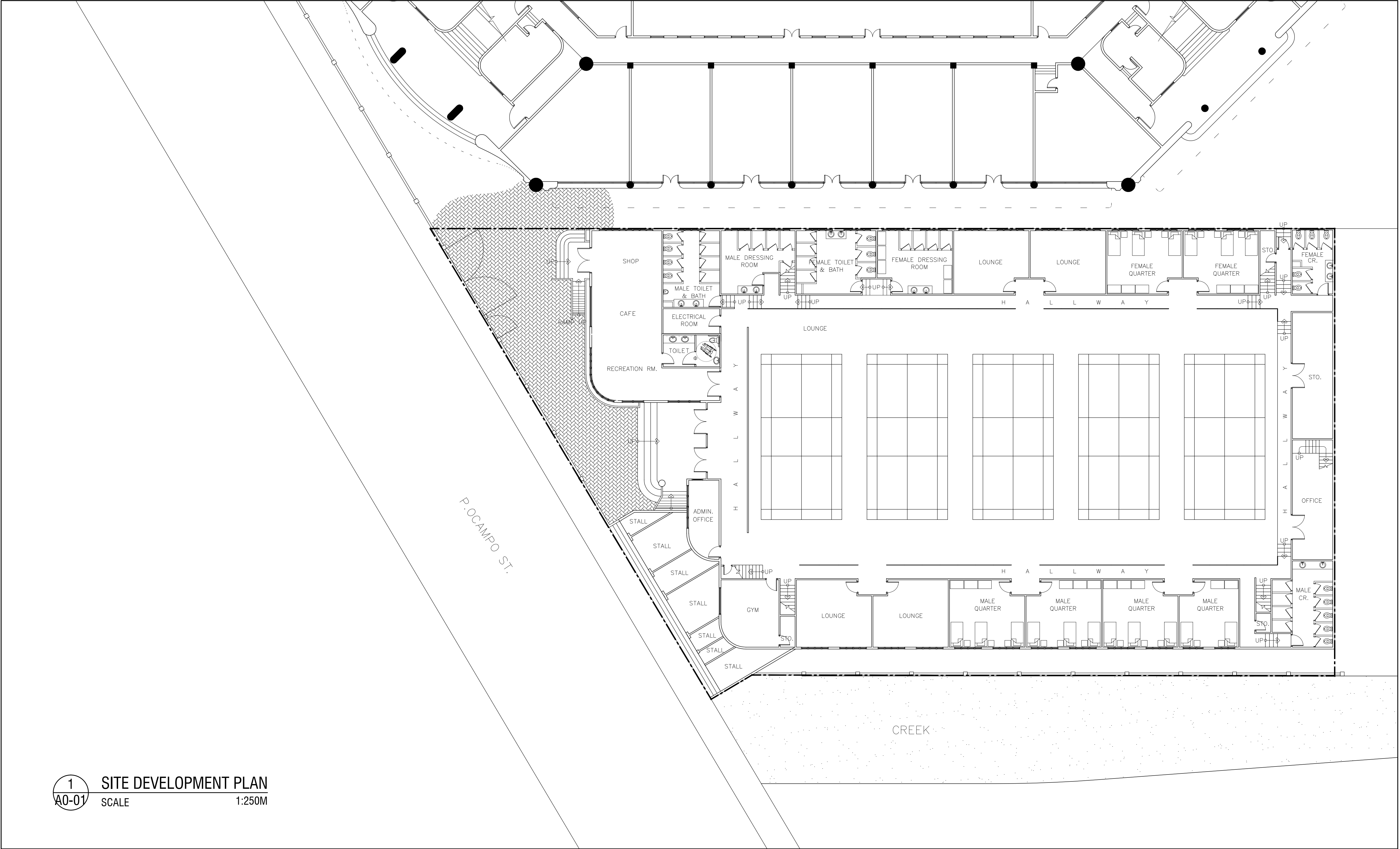
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DATE:

SHEET NUMBER

A0-02



1
A0-01

SITE DEVELOPMENT PLAN
SCALE 1:250M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

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ENGR. PEDRO I. PINEDA JR.
HEAD, ENGINEERING SECTION

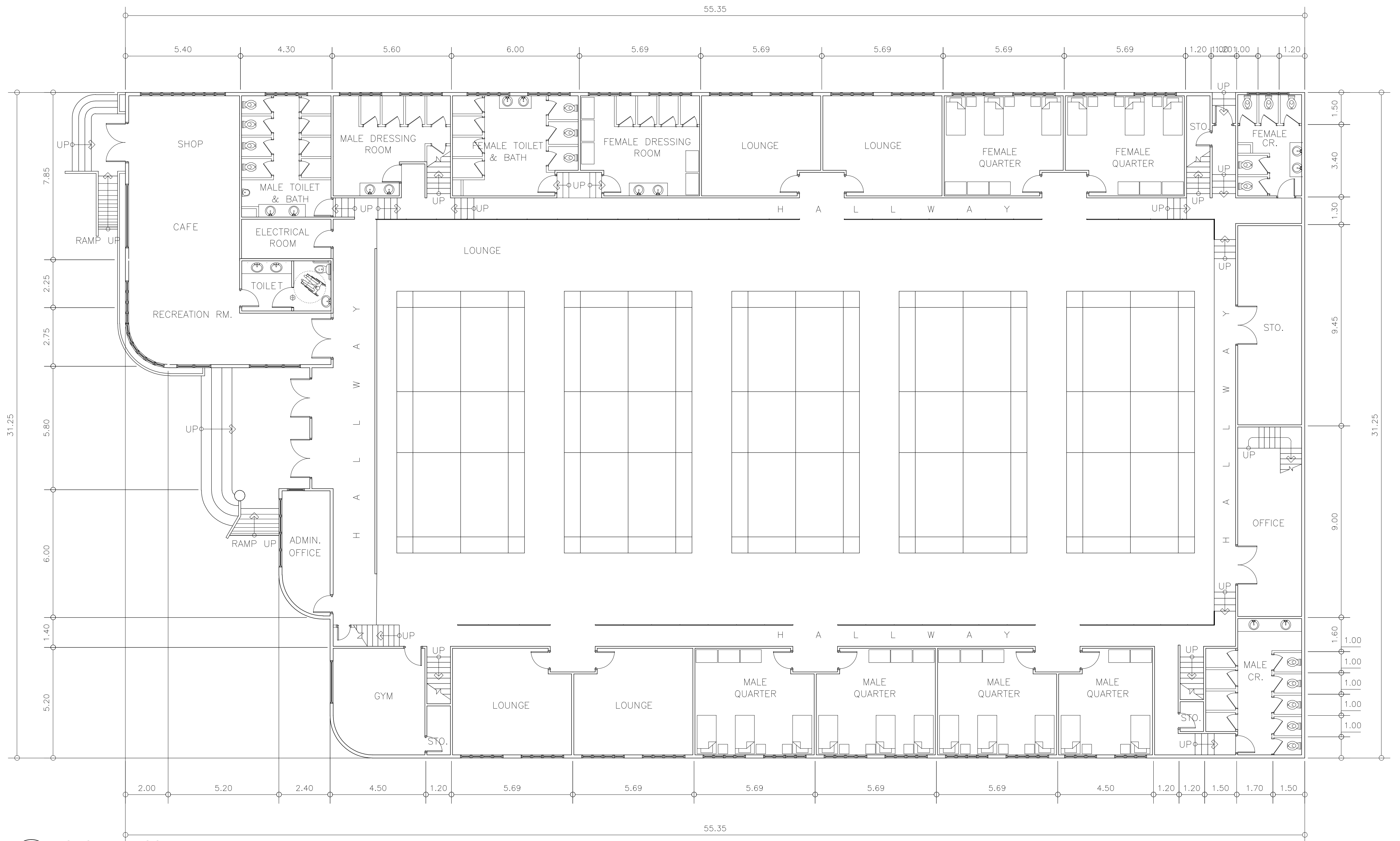
RECOMMENDING APPROVAL:
DIR. MERLITA R. IBAY
OIC, EXECUTIVE DIRECTOR

APPROVED BY:
HON. WILLIAM I. RAMIREZ
CHAIRMAN

SHEET CONTENTS:
SITE DEVELOPMENT PLAN

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

SHEET NUMBER
A1-01



2
A2-01
GROUND FLOOR PLAN
SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:
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RIZAL MEMORIAL BADMINTON HALL**
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:
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HEAD, ENGINEERING SECTION

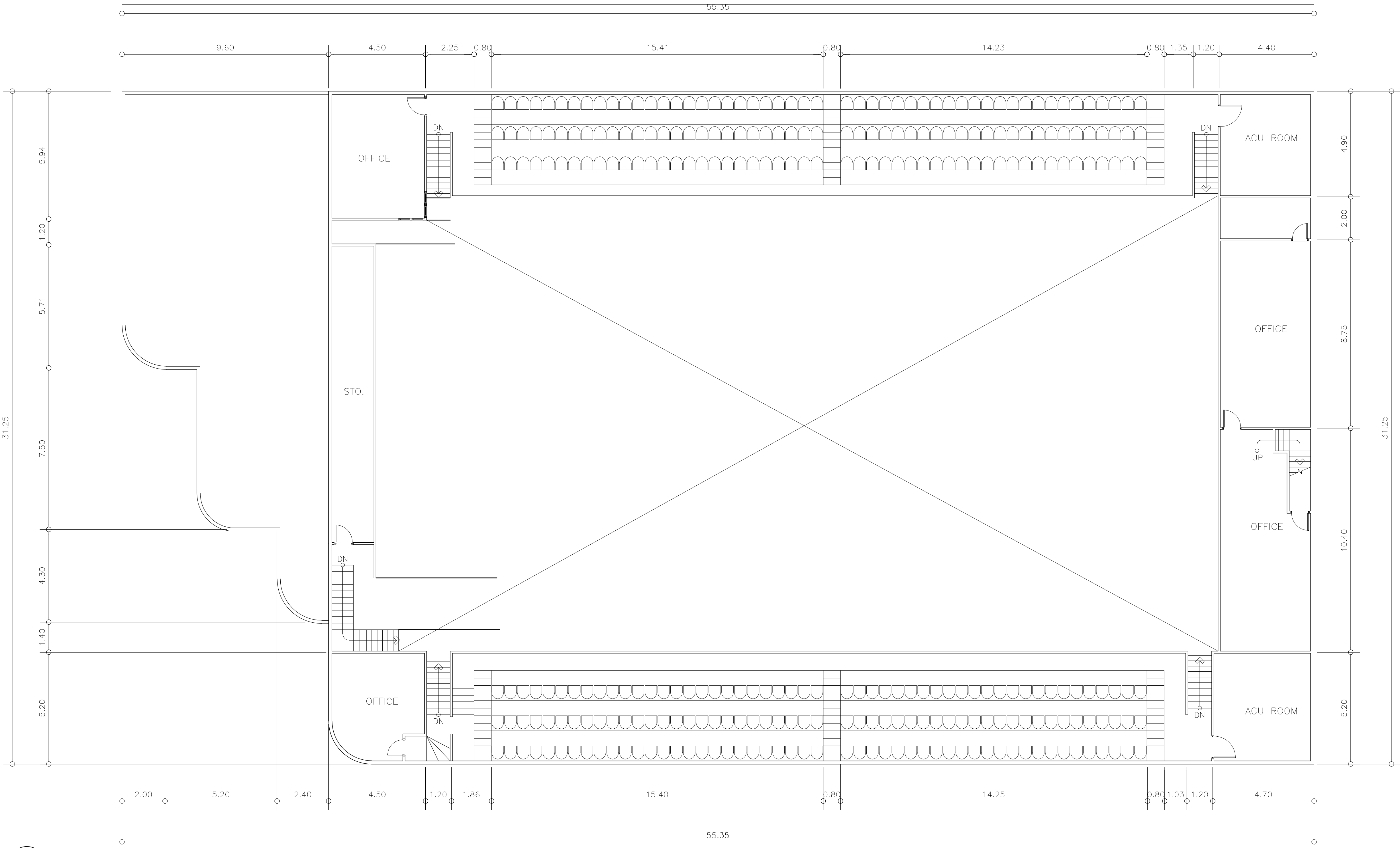
RECOMMENDING APPROVAL:
DIR. MERLITA R. IBAY
OIC, EXECUTIVE DIRECTOR

APPROVED BY:
HON. WILLIAM I. RAMIREZ
CHAIRMAN

SHEET CONTENTS:
GROUND FLOOR PLAN

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

SHEET NUMBER
A2-01



1
A2-02 **SECOND FLOOR PLAN**
SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

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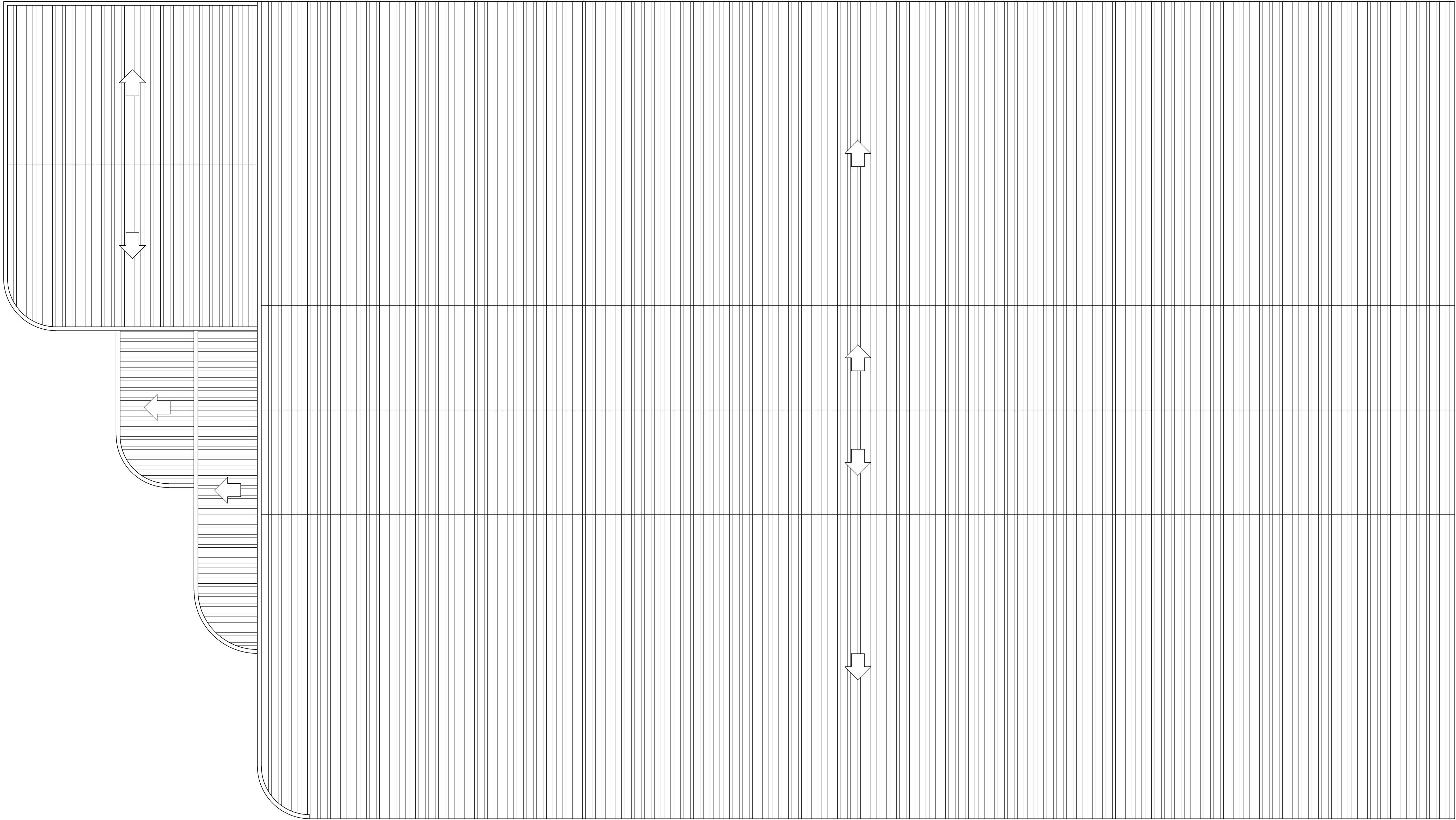
RECOMMENDING APPROVAL:
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OIC, EXECUTIVE DIRECTOR

APPROVED BY:
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CHAIRMAN

SHEET CONTENTS:
SECOND FLOOR PLAN

DESIGN BY:
DRAWN BY:
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DATE:

SHEET NUMBER
A2-02



1
A3-01

ROOF PLAN

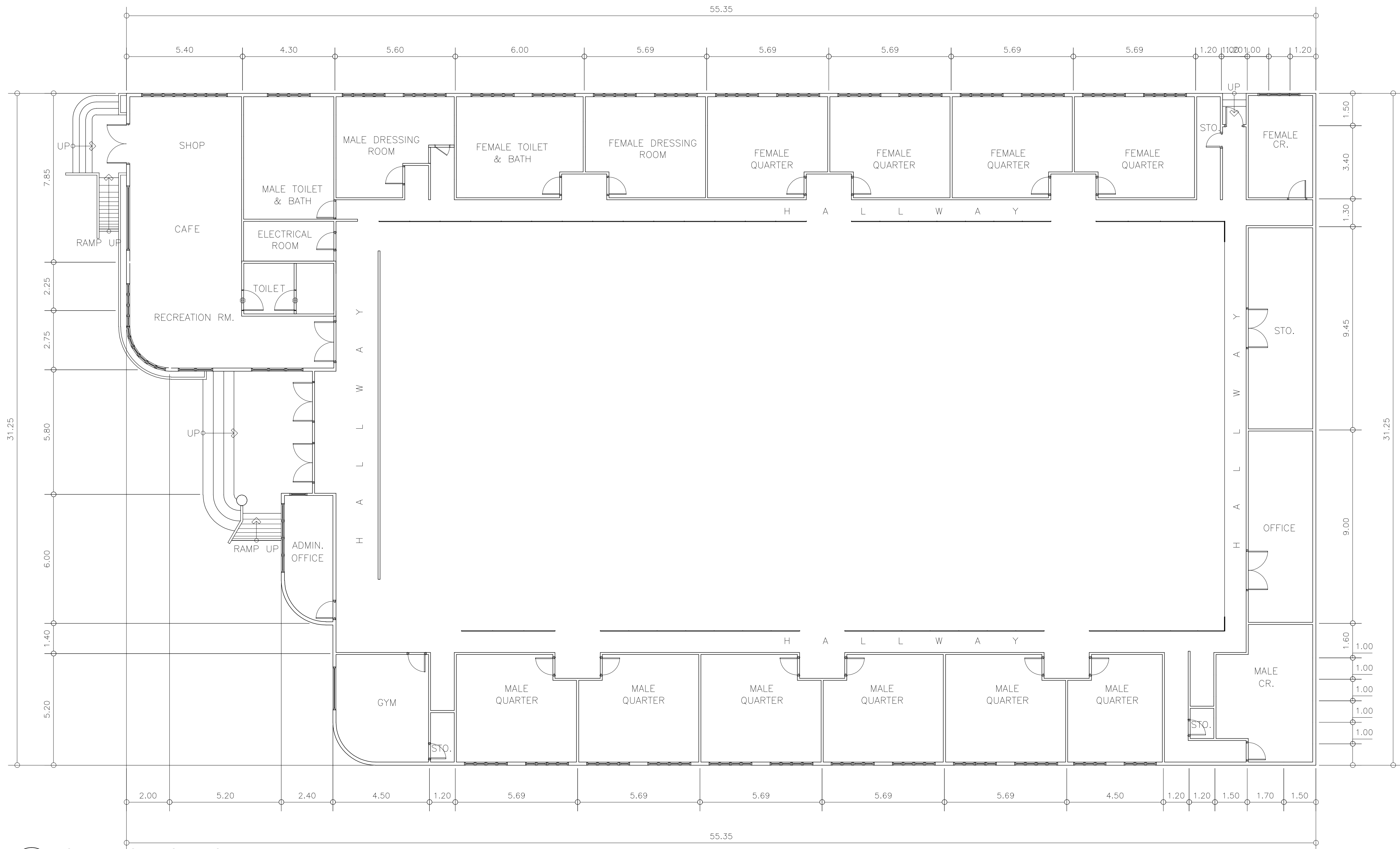
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PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DESIGN BY:	SHEET NUMBER
REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL	ENGR. PEDRO I. PINEDA JR.	DIR. MERLITA R. IBAY	HON. WILLIAM I. RAMIREZ	ROOF PLAN	DRAWN BY:	A3-01
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA	HEAD, ENGINEERING SECTION	OIC, EXECUTIVE DIRECTOR	CHAIRMAN		CHECKED BY:	
					DATE:	



1
A4-01
GF REFLECTED CEILING PLAN
SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

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**REHABILITATION OF THE
RIZAL MEMORIAL BADMINTON HALL**

LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:

ENGR. PEDRO I. PINEDA JR.

HEAD, ENGINEERING SECTION

RECOMMENDING APPROVAL:

DIR. MERLITA R. IBAY

OIC, EXECUTIVE DIRECTOR

APPROVED BY:

HON. WILLIAM I. RAMIREZ

CHAIRMAN

SHEET CONTENTS:

GF REFLECTED CEILING PLAN

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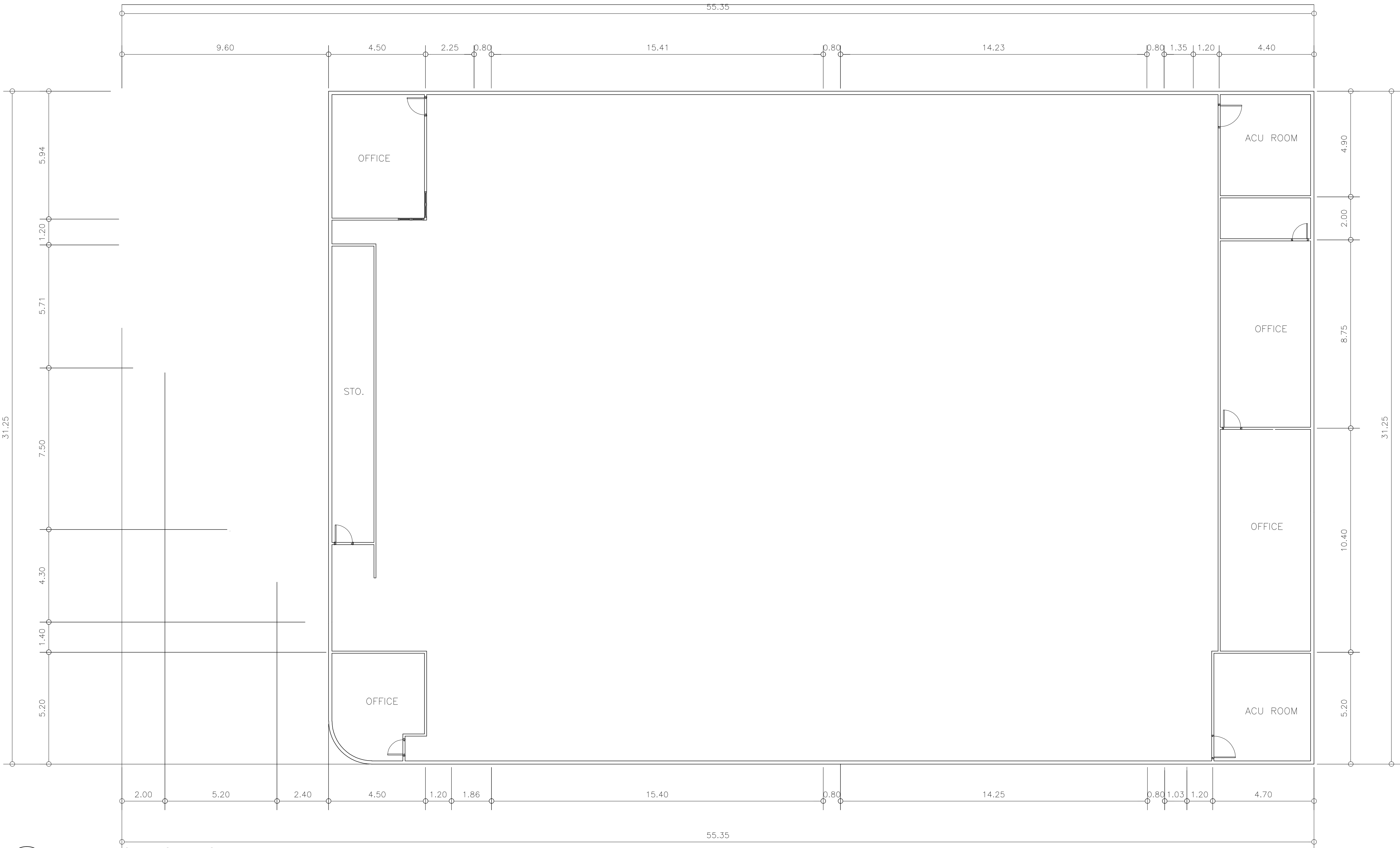
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CHECKED BY:

DATE:

SHEET NUMBER

A4-01



1
A4-02 **2F REFLECTED CEILING PLAN**
SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

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REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:
ENGR. PEDRO I. PINEDA JR.
HEAD, ENGINEERING SECTION

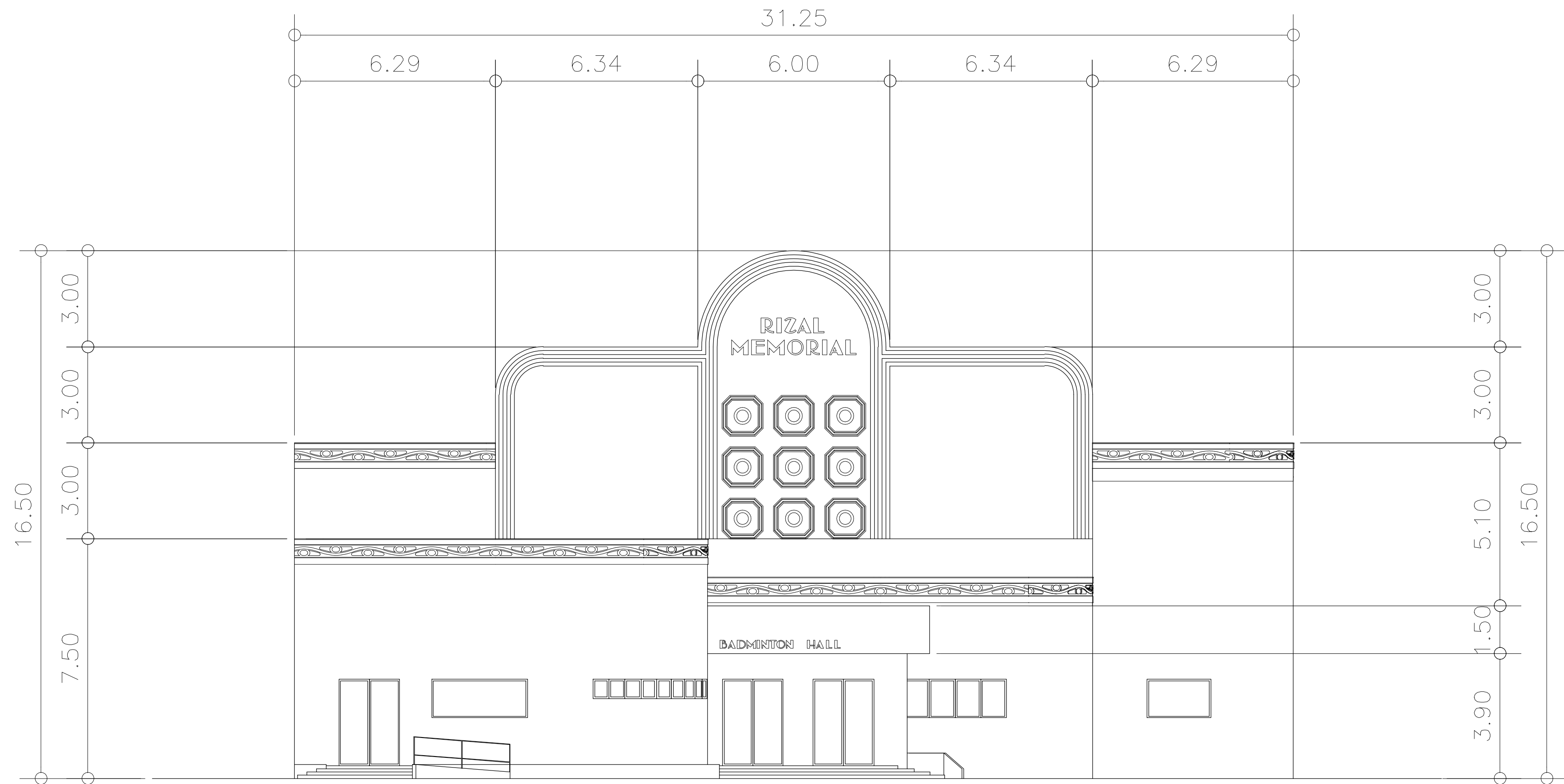
RECOMMENDING APPROVAL:
DIR. MERLITA R. IBAY
OIC, EXECUTIVE DIRECTOR

APPROVED BY:
HON. WILLIAM I. RAMIREZ
CHAIRMAN

SHEET CONTENTS:
2F REFLECTED CEILING PLAN

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

SHEET NUMBER
A4-02

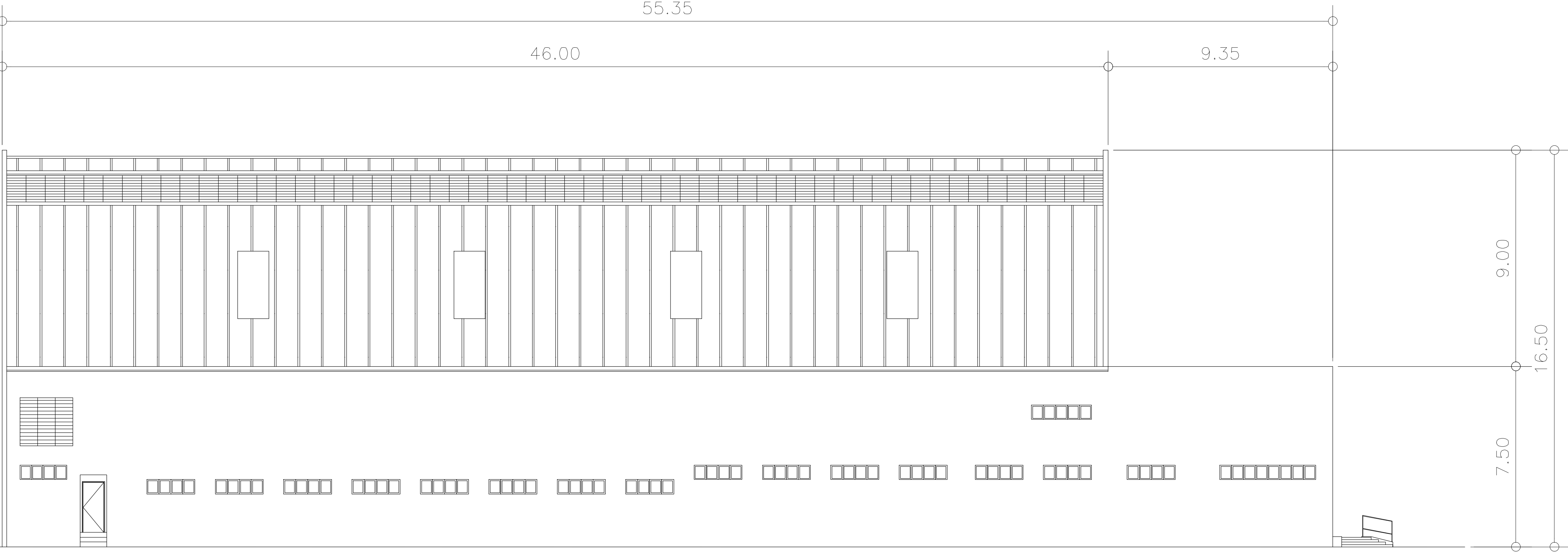


1
A5-01 **FRONT ELEVATION**
SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DESIGN BY:	SHEET NUMBER
REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL	ENGR. PEDRO I. PINEDA JR. <small>HEAD, ENGINEERING SECTION</small>	DIR. MERLITA R. IBAY <small>OIC, EXECUTIVE DIRECTOR</small>	HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small>	FRONT ELEVATION	DRAWN BY:	
					CHECKED BY:	
					DATE:	
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA						A5-01

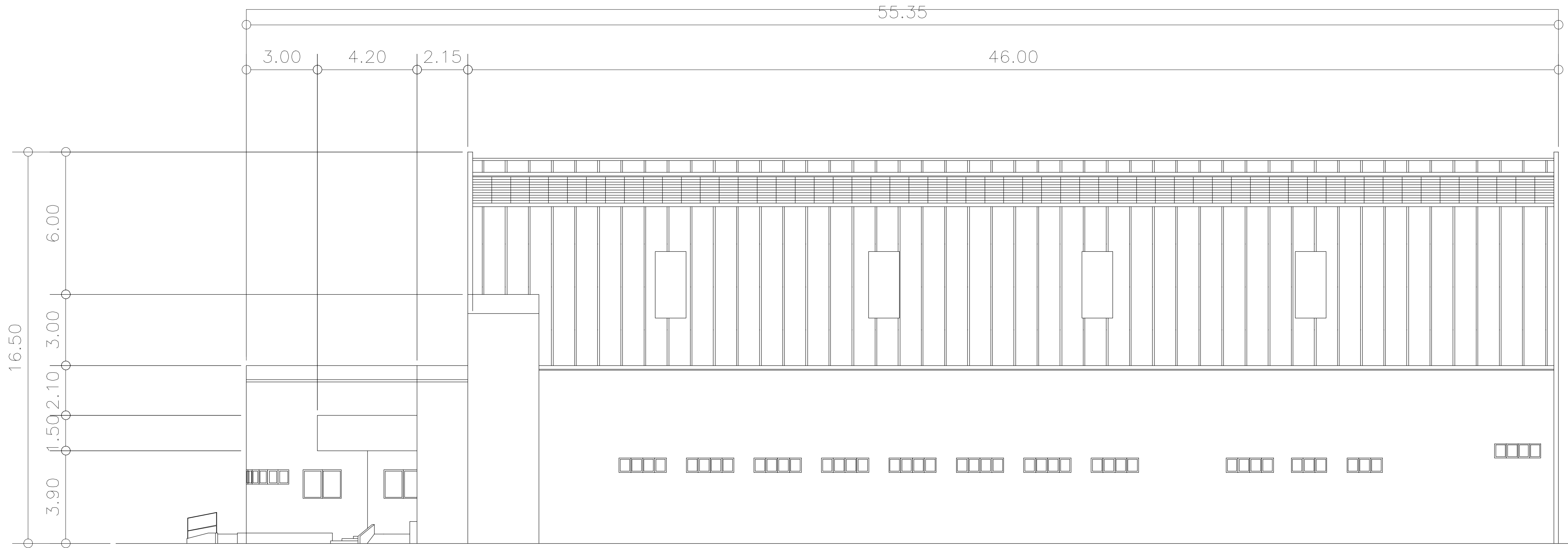


1 LEFT ELEVATION
A5-02 SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DESIGN BY:	SHEET NUMBER
REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL	ENGR. PEDRO I. PINEDA JR. HEAD, ENGINEERING SECTION	DIR. MERLITA R. IBAY OIC, EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	LEFT ELEVATION	DRAWN BY:	
					CHECKED BY:	
					DATE:	
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA						A5-02



1
A5-03

RIGHT ELEVATION
SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:
REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:
ENGR. PEDRO I. PINEDA JR.
HEAD, ENGINEERING SECTION

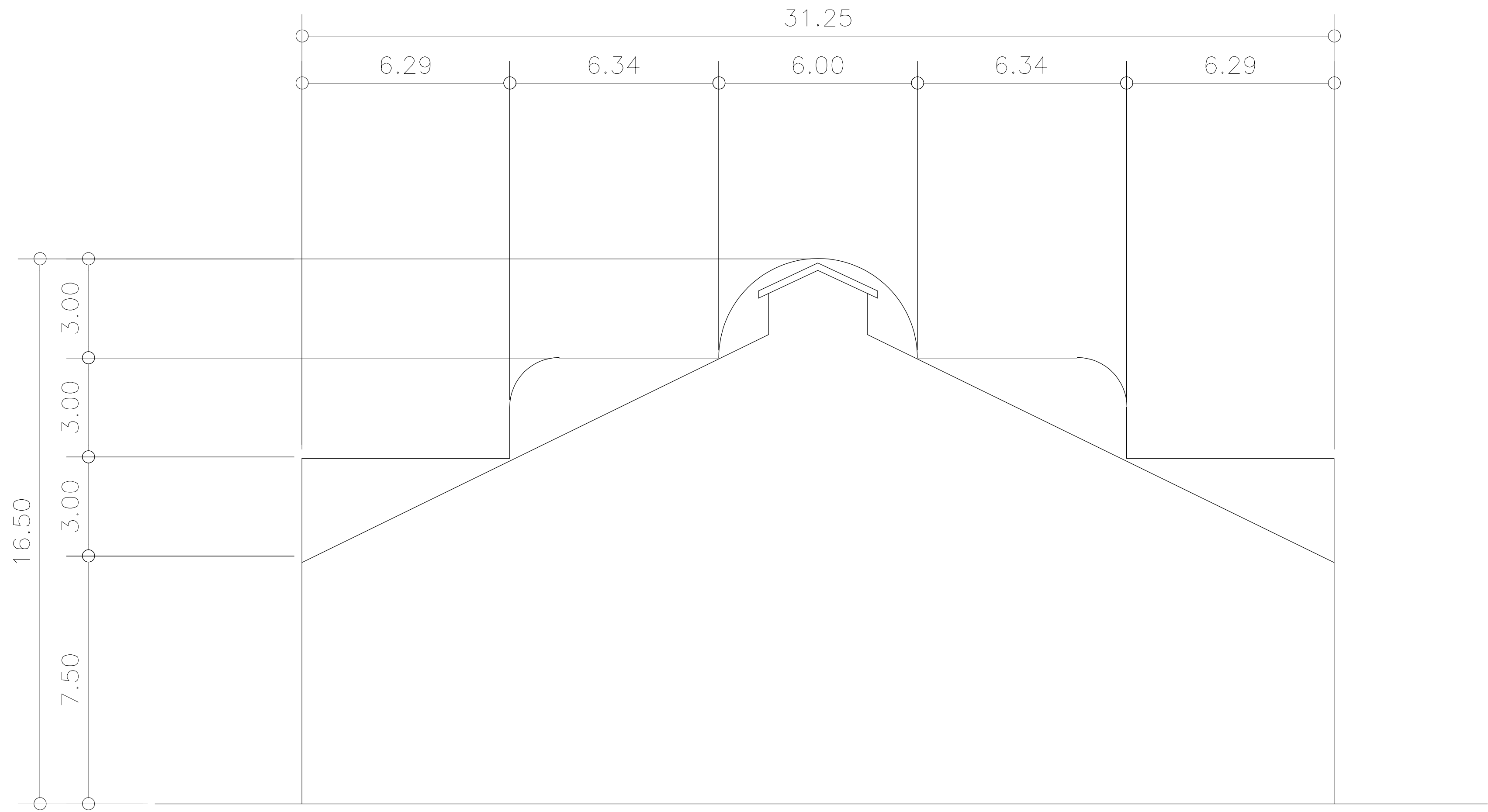
RECOMMENDING APPROVAL:
DIR. MERLITA R. IBAY
OIC, EXECUTIVE DIRECTOR

APPROVED BY:
HON. WILLIAM I. RAMIREZ
CHAIRMAN

SHEET CONTENTS:
RIGHT ELEVATION

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

SHEET NUMBER
A5-03



1
A5-04

REAR ELEVATION

SCALE

1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

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**REHABILITATION OF THE
RIZAL MEMORIAL BADMINTON HALL**

LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:

ENGR. PEDRO I. PINEDA JR.

HEAD, ENGINEERING SECTION

RECOMMENDING APPROVAL:

DIR. MERLITA R. IBAY

OIC, EXECUTIVE DIRECTOR

APPROVED BY:

HON. WILLIAM I. RAMIREZ

CHAIRMAN

SHEET CONTENTS:

REAR ELEVATION

DESIGN BY:

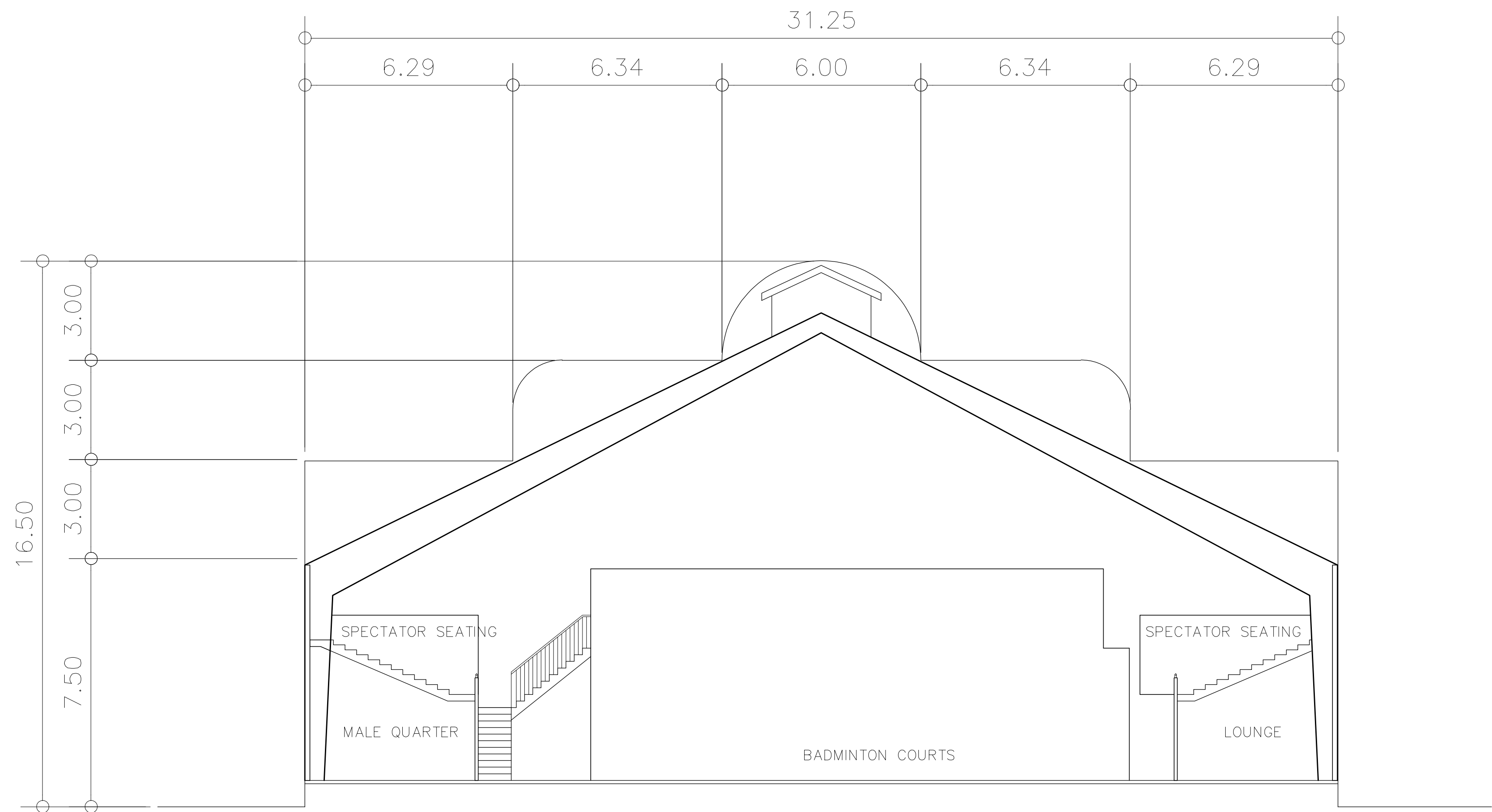
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DATE:

SHEET NUMBER

A5-04

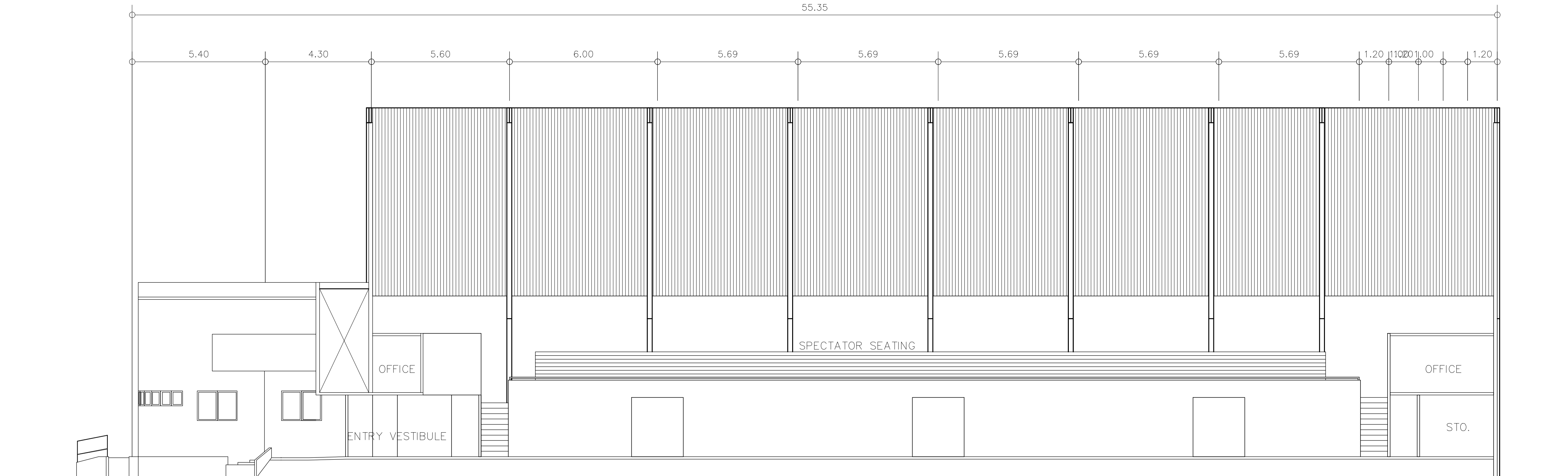


1
A6-01 **CROSS SECTION**
SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DESIGN BY:	SHEET NUMBER
REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL	ENGR. PEDRO I. PINEDA JR. <small>HEAD, ENGINEERING SECTION</small>	DIR. MERLITA R. IBAY <small>OIC, EXECUTIVE DIRECTOR</small>	HON. WILLIAM I. RAMIREZ <small>CHAIRMAN</small>	SECTION	DRAWN BY:	
					CHECKED BY:	
					DATE:	
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA						A6-01



1 LONGITUDINAL SECTION
A6-02 SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

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LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:
ENGR. PEDRO I. PINEDA JR.
HEAD, ENGINEERING SECTION

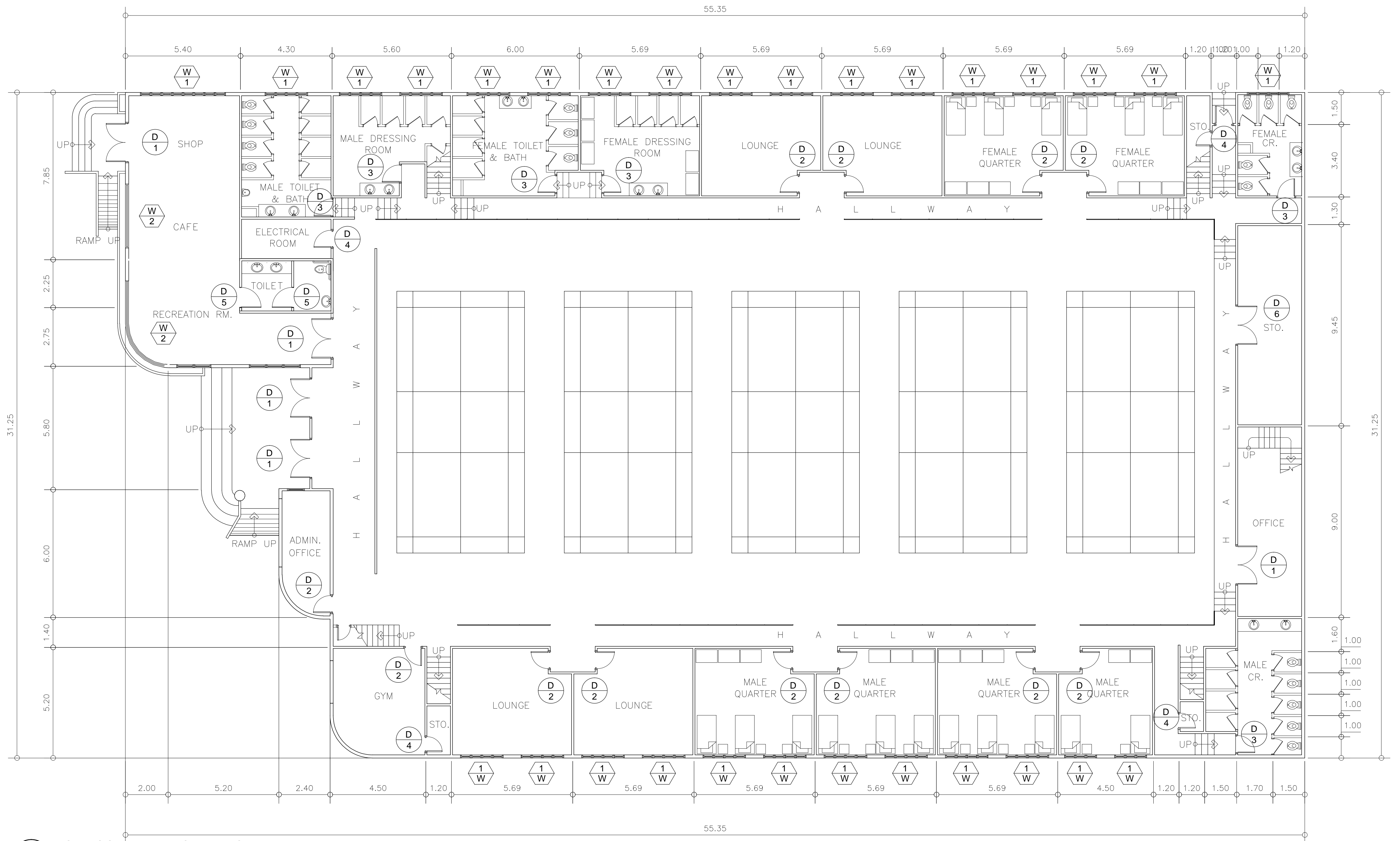
RECOMMENDING APPROVAL:
DIR. MERLITA R. IBAY
OIC, EXECUTIVE DIRECTOR

APPROVED BY:
HON. WILLIAM I. RAMIREZ
CHAIRMAN

SHEET CONTENTS:
SECTION

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

SHEET NUMBER
A6-02



1 GF DOOR & WINDOW LAYOUT
A7-01 SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

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REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:
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HEAD, ENGINEERING SECTION

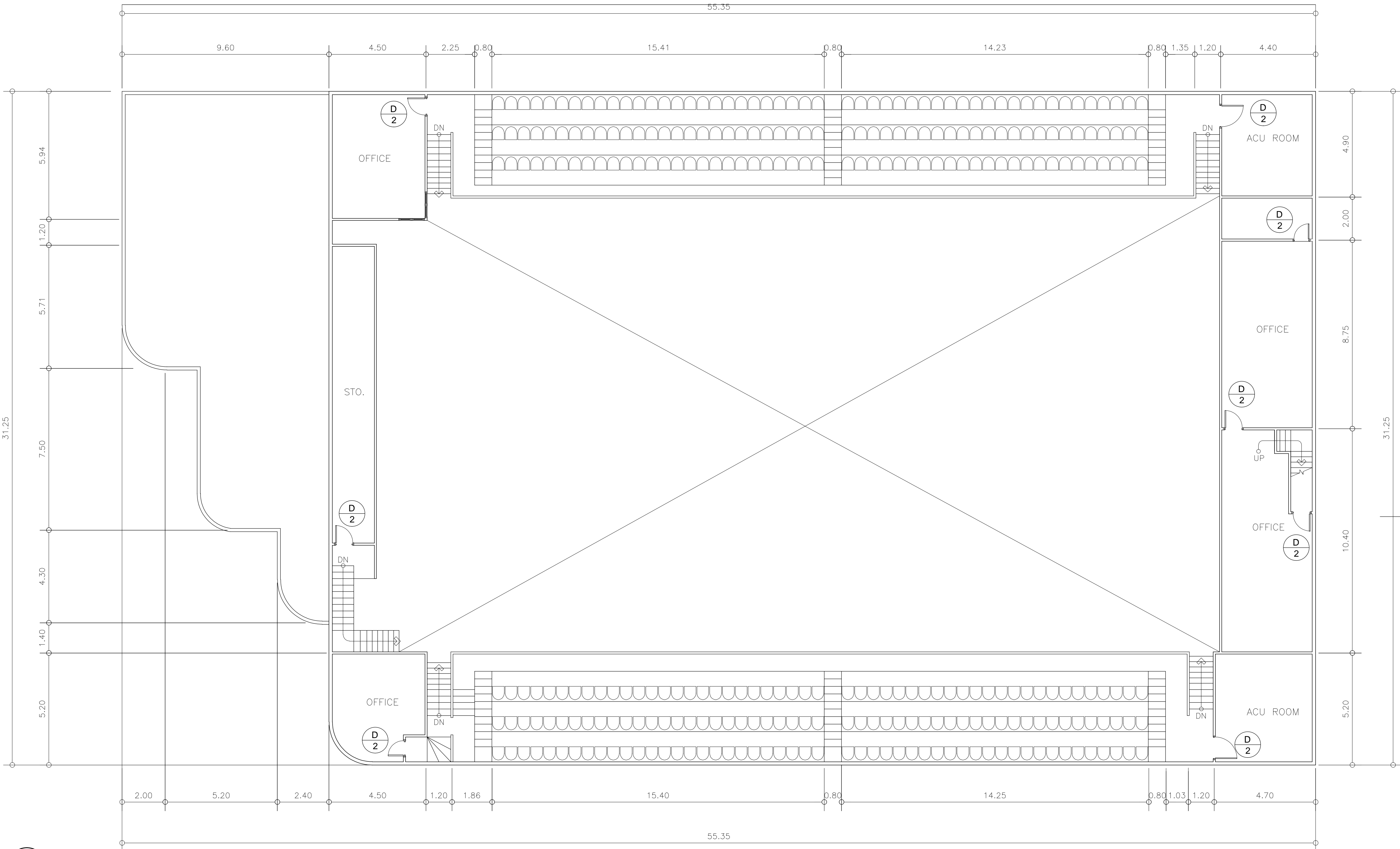
RECOMMENDING APPROVAL:
DIR. MERLITA R. IBAY
OIC, EXECUTIVE DIRECTOR

APPROVED BY:
HON. WILLIAM I. RAMIREZ
CHAIRMAN

SHEET CONTENTS:
GF DOOR AND WINDOW LAYOUT

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

SHEET NUMBER
A7-01



1 2F DOOR & WINDOW LAYOUT
A7-02 SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:
**REHABILITATION OF THE
RIZAL MEMORIAL BADMINTON HALL**
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

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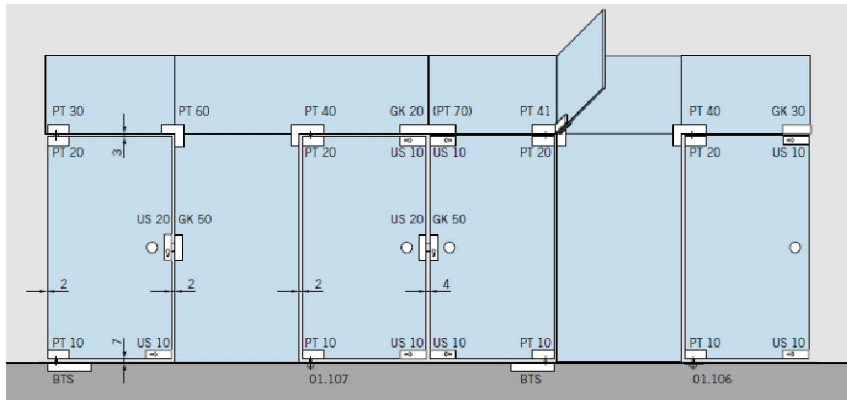










RECOMMENDING APPROVAL:
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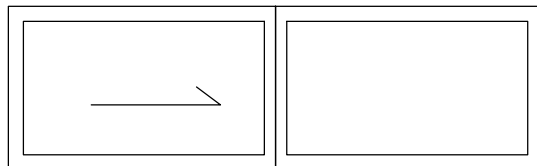
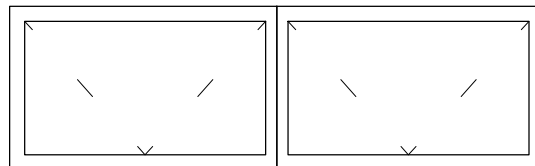
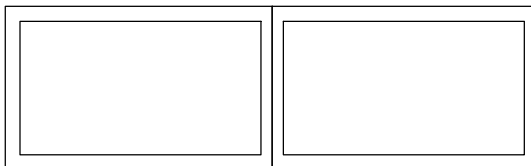
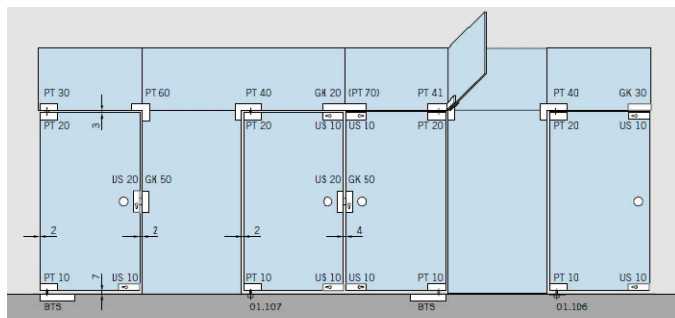
APPROVED BY:
HON. WILLIAM I. RAMIREZ
CHAIRMAN

SHEET CONTENTS:
2F DOOR AND WINDOW LAYOUT

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

SHEET NUMBER
A7-02

PROPOSED			 <div>D 1</div>			EXISTING			 <div>D 02</div>			PROPOSED			 <div>D 02</div>			EXISTING			 <div>D 03</div>			PROPOSED			 <div>D 03</div>								
DESC FRAME LESS GLASS DOOR WITH PATCH FITTINGS, CHROME OR BRASS PLATED POLISHED FINISH						DESC INTERIOR DOOR PAINTED WOODEN FLUSH DOOR						DESC REPLACE WITH POWER COATED COLD ROLLED STEEL DOOR AND FRAME WITH KNOB						DESC INTERIOR DOOR PAINTED WOODEN FLUSH DOOR						DESC REPLACE WITH POWER COATED COLD ROLLED STEEL DOOR AND FRAME WITH KNOB											
L		VERIFY		TEMP. GLASS W/ CHROME BRASS FIT. FIN.		L		VERIFY		PAINTED WOOD		L		AS IS		COLD ROLLED STL		L		VERIFY		PAINTED WOOD		L		AS IS		COLD ROLLED STL							
W		VERIFY				W		VERIFY				W		AS IS				W		VERIFY				W		AS IS									
H		VERIFY		FLR/CNG BOLT LOCK; METAL HANDLE		H		VERIFY		DOOR KNOB		H		AS IS		HEAVY DUTY KNOB		H		VERIFY		DOOR KNOB		H		AS IS		HEAVY DUTY KNOB							
EXISTING			 <div>D 04</div>			PROPOSED			 <div>D 04</div>			EXISTING			 <div>D 05</div>			PROPOSED			 <div>D 05</div>			EXISTING			 <div>D 06</div>			PROPOSED			 <div>D 06</div>		
DESC INTERIOR DOOR PAINTED WOODEN FLUSH DOOR				DESC REPLACE WITH POWER COATED COLD ROLLED STEEL DOOR AND FRAME WITH KNOB				DESC INTERIOR DOOR PAINTED WOODEN FLUSH DOOR				DESC REPLACE WITH POWER COATED COLD ROLLED STEEL DOOR AND FRAME WITH KNOB				DESC INTERIOR DOOR PAINTED WOODEN FLUSH DOOR				DESC REPLACE WITH POWER COATED COLD ROLLED STEEL DOOR AND FRAME WITH KNOB															
L		VERIFY		PAINTED WOOD		L		AS IS		COLD ROLLED STL		L		VERIFY		PAINTED WOOD		L		VERIFY		PAINTED WOOD		L		AS IS		COLD ROLLED STL							
W		VERIFY				W		AS IS				W		AS IS				W		VERIFY				W		AS IS									
H		VERIFY		DOOR KNOB		H		AS IS		HEAVY DUTY KNOB		H		AS IS		HEAVY DUTY KNOB		H		VERIFY		DOOR KNOB		H		AS IS		HEAVY DUTY KNOB							

EXISTING		PROPOSED		EXISTING		PROPOSED		
 <div>W 1</div>		 <div>W 1</div>		 <div>W 2</div>		 <div>W 2</div>		
DESC EXISTING ALUMINUM SLIDING WINDOW		DESC REPLACEMENT WITH POWDER COATED ALUMINUM 2-AWNING WINDOW		DESC EXISTING WINDOW		DESC FD100 FRAMELESS GLASS CURTAINWALL WITH SILICON CAULKING		
L	VERIFY	ALUMINUM	L	AS IS	ALUM; GLASS	L	AS IS	GLASS
W	VERIFY		W	AS IS		W	AS IS	
H	VERIFY	SLIDING	H	AS IS	AWNING	H	AS IS	FIXED


1

A7-03

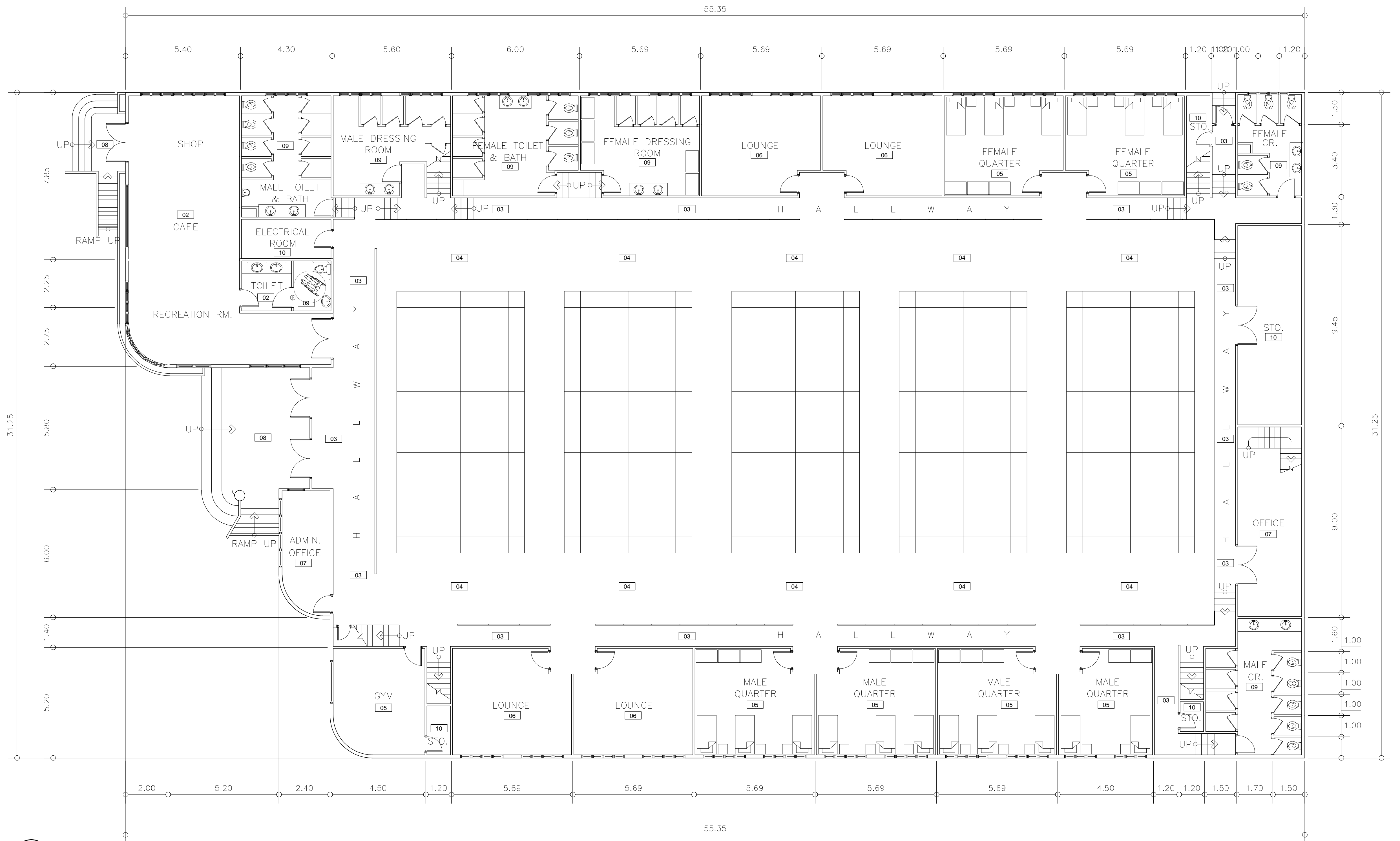
DOOR & WINDOW SCHEDULE

SCALE

NTS

<div></div> <div>PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</div>	PROJECT TITLE:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DESIGN BY:	SHEET NUMBER
	REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL	ENGR. PEDRO I. PINEDA JR.	DIR. MERLITA R. IBAY	HON. WILLIAM I. RAMIREZ	DOOR AND WINDOW SCHEDULE	DRAWN BY:	
	LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA	HEAD, ENGINEERING SECTION	OIC, EXECUTIVE DIRECTOR	CHAIRMAN		CHECKED BY:	
					DATE:		

A7-03



1
A8-01
GF FINISHES LAYOUT
SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

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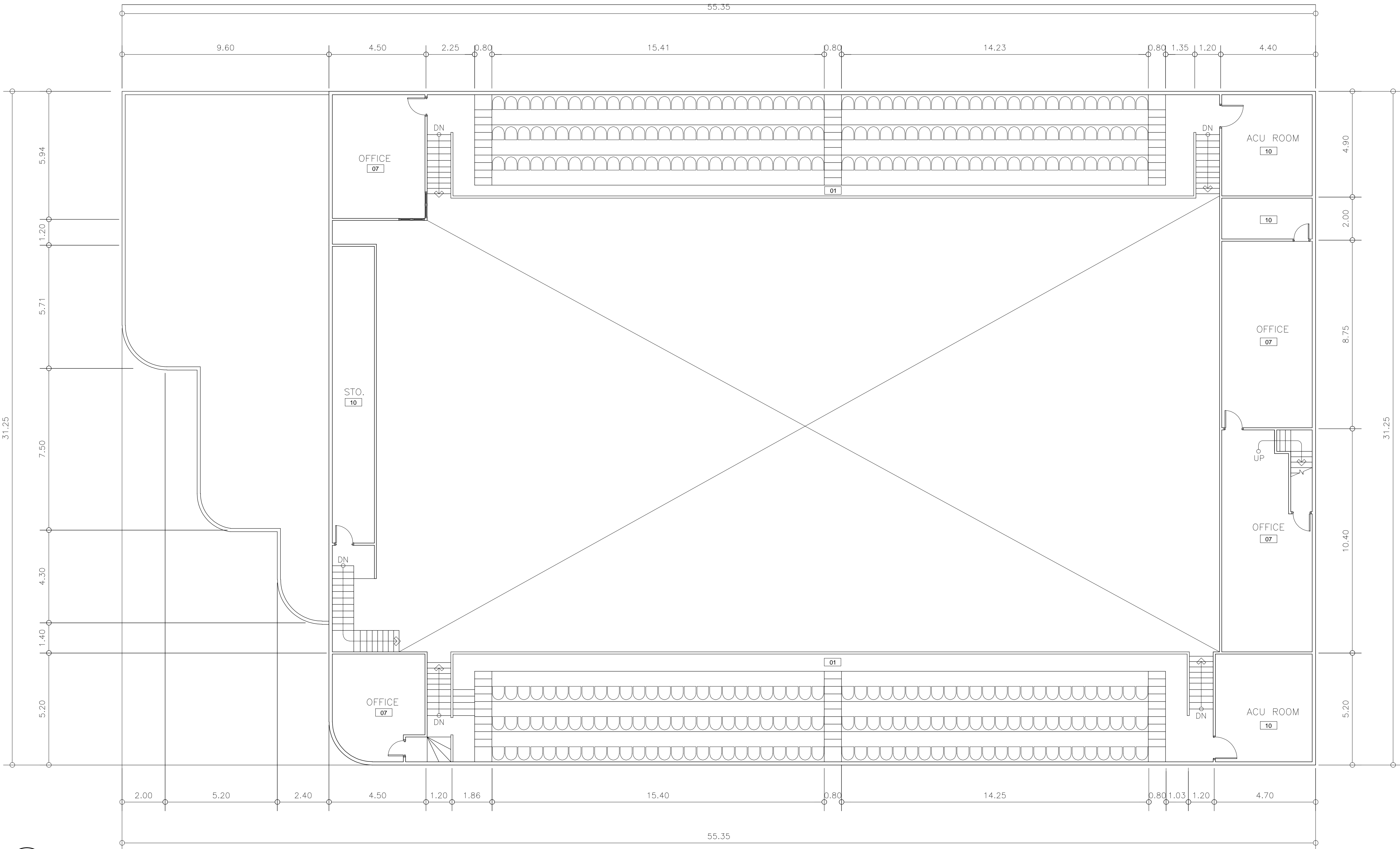
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CHAIRMAN

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GF FINISHES LAYOUT

DESIGN BY:
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SHEET NUMBER
A8-01



1
A8-02

2F FINISHES LAYOUT

SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:
**REHABILITATION OF THE
RIZAL MEMORIAL BADMINTON HALL**

LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:
ENGR. PEDRO I. PINEDA JR.
HEAD, ENGINEERING SECTION

RECOMMENDING APPROVAL:
DIR. MERLITA R. IBAY
OIC, EXECUTIVE DIRECTOR

APPROVED BY:
HON. WILLIAM I. RAMIREZ
CHAIRMAN

SHEET CONTENTS:
2F FINISHES LAYOUT

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

SHEET NUMBER
A8-02

ROOM #	ROOM	FLOOR	WALL	CEILING
1	SEATING AREA	2MM THICK PVC RESILIENT HOMOGENOUS FLOORING, MATT FINISH	PLAIN CONCRETE WALL, LATEX PAINT FINISH	STEEL TRUSS FRAMING (EXISTING), PAINTED FINISH
2	CAFÉ	600MM X 600 MM VITRIFIED HOMOGENOUS TILE, NON-SLIP FINISH	PLAIN CONCRETE WALL, LATEX PAINT FINISH	GYPSUM BOARD, PAINTED FINISH
3	CORRIDOR	450MM X 450 MM VITRIFIED HOMOGENOUS TILE, NON-SLIP FINISH	PLAIN CONCRETE WALL, LATEX PAINT FINISH	PLAIN CONCRETE CEILING, LATEX PAINT FINISH
4	BADMINTON COURT	FLOORING SYSTEM (VERIFY SPECIFICATIONS) WITH CHLORINATED RUBBED BASED PAINT	PLAIN CONCRETE WALL, LATEX PAINT FINISH	STEEL TRUSS FRAMING (EXISTING), PAINTED FINISH
5	GENERAL SPACES	450MM X 450 MM VITRIFIED HOMOGENOUS TILE, NON-SLIP FINISH	PLAIN CONCRETE WALL, LATEX PAINT FINISH	PLAIN CONCRETE CEILING, LATEX PAINT FINISH
6	LOUNGES	450MM X 450 MM VITRIFIED HOMOGENOUS TILE, NON-SLIP FINISH	PLAIN CONCRETE WALL, LATEX PAINT FINISH	GYPSUM BOARD, PAINTED FINISH
7	OFFICES	450MM X 450 MM VITRIFIED HOMOGENOUS TILE, NON-SLIP FINISH	PLAIN CONCRETE WALL, LATEX PAINT FINISH	GYPSUM BOARD, PAINTED FINISH
8	OUTDOOR VESTIBULES	450MM X 450 MM VITRIFIED HOMOGENOUS TILE, NON-SLIP FINISH	PLAIN CONCRETE WALL, LATEX PAINT FINISH	MOISTURE-RESISTANT GYPSUM BOARD, PAINTED FINISH
9	TOILETS / LOCKERS	450MM X 450 MM VITRIFIED HOMOGENOUS TILE, NON-SLIP FINISH	HEADER: 450MM X 450MM CERAMIC TILE; TOP OF DOOR HEADER TO CFL: PLAIN	MOISTURE-RESISTANT GYPSUM BOARD, PAINTED FINISH
10	UTILITY AREAS	SMOOTH CONCRETE FLOORING, NON- SLIP EPOXY PAINTED FINISH	PLAIN CONCRETE WALL, LATEX PAINT FINISH	PLAIN CONCRETE CEILING, LATEX PAINT FINISH

1

A8-03

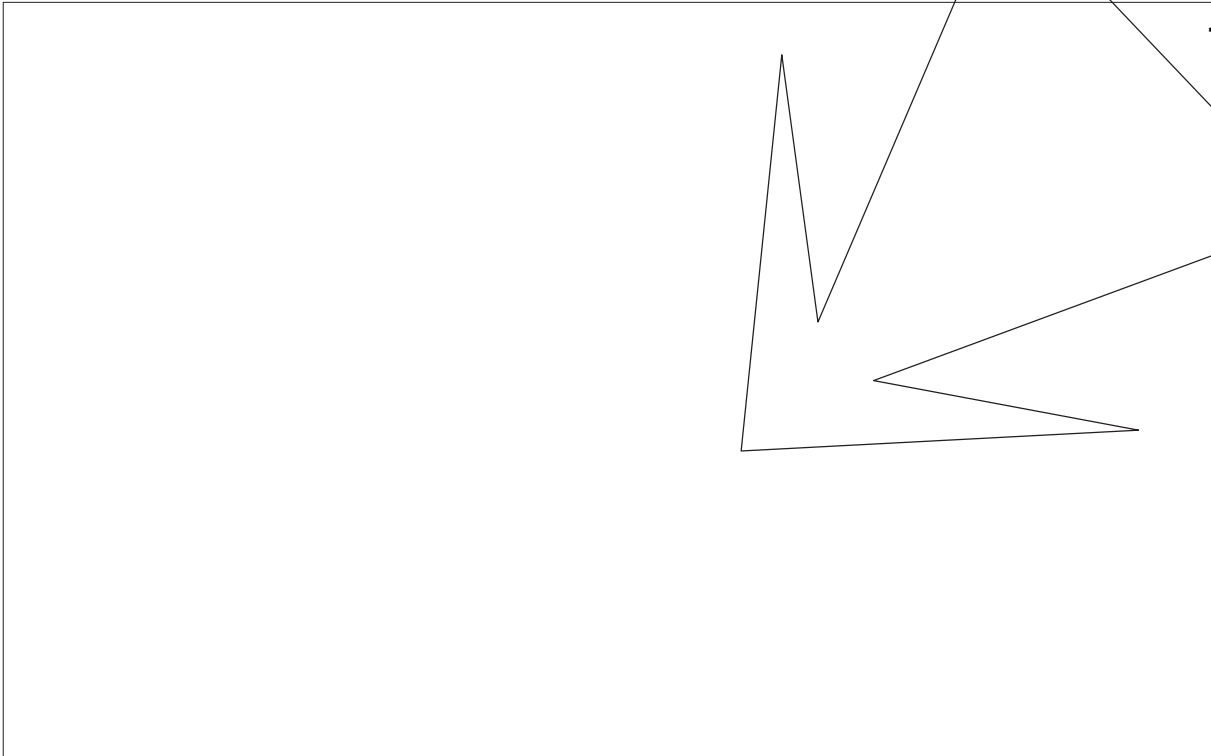
SCHEDULE OF FINISHES

SCALE 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DESIGN BY:	SHEET NUMBER
REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL	ENGR. PEDRO I. PINEDA JR.	DIR. MERLITA R. IBAY	HON. WILLIAM I. RAMIREZ	SCHEDULE OF FINISHES	DRAWN BY:	A8-03
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA	HEAD, ENGINEERING SECTION	OIC, EXECUTIVE DIRECTOR	CHAIRMAN		CHECKED BY:	
					DATE:	



LOCATION MAP

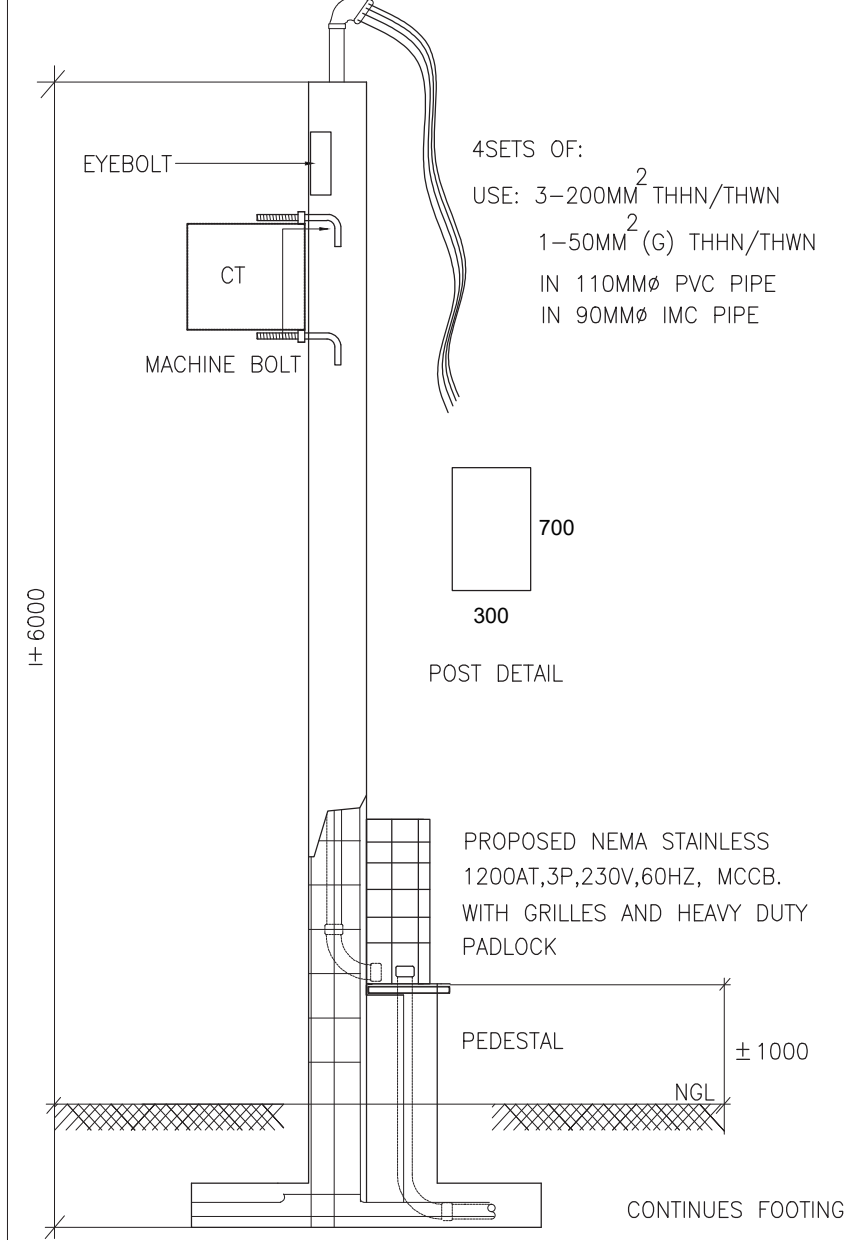
SHORT CIRCUIT CALCULATION

PANEL MDP LENGHT OF WIRE: 30MTS (98.43FT) SIZE OF WIRE: 4-SET OF 3-200mm ² THWN + 1-50mm ² THN (G) SC = 12844	(FROM PANEL TO TAPPING POINT/SERVICE ENTRANCE) TOTAL VA : 203,752.4 PHASE : THREE-PHASE VOLTS : 230V (LINE TO LINE) SIZE OF WIRE WIRE: 4SETS OF: 2-200mm ² THHN/THWN + 1-50mm ² THWN (G) WIRE DISTANCE : APPROXIMATELY 30METERS X (3.28FT/M) = 98.43 FT VD = (2 X I X L X R) /1000 WHERE: VD = VOLTAGE DROP L = LENGTH OF CONDUCTOR IN FT. R = RESISTANCE OF CONDUCTOR (Ω/kFT) I = LOAD CURRENT IN AMPERES VD = (2 X 885.88A X 98.42FT X 0.022481Ω/kFT) / 1000FT/kFT VD = 3.92 VOLTS %VD = (3.92 VOLTS /230) X 100% = 1.70% VOLTAGE AT THE END : 226.06 VOLTS
STEP 1. $I_L = (225KVA \times 1000) / 380 = 592.11$ STEP 2. MULTIPLIER = 100/1.20 = 83.33 STEP 3. $I = 592.11 \times 83.33 = 4,934.0$ STEP 4. $F = (2 \times 98.42 \times 4,934.0) / (12844 \times 1 \times 230) = 3.29$ STEP 5. $M = 1 / (1 + 3.29) = 0.233$ STEP 6. $I = 4,934.0 \times 0.233 = 11496.22 A$ CIRCUIT BREAKER SHOULD BE RATED NOT LESS THAN 15000 AIC SYMMETRICAL VOLTAGE DROP	

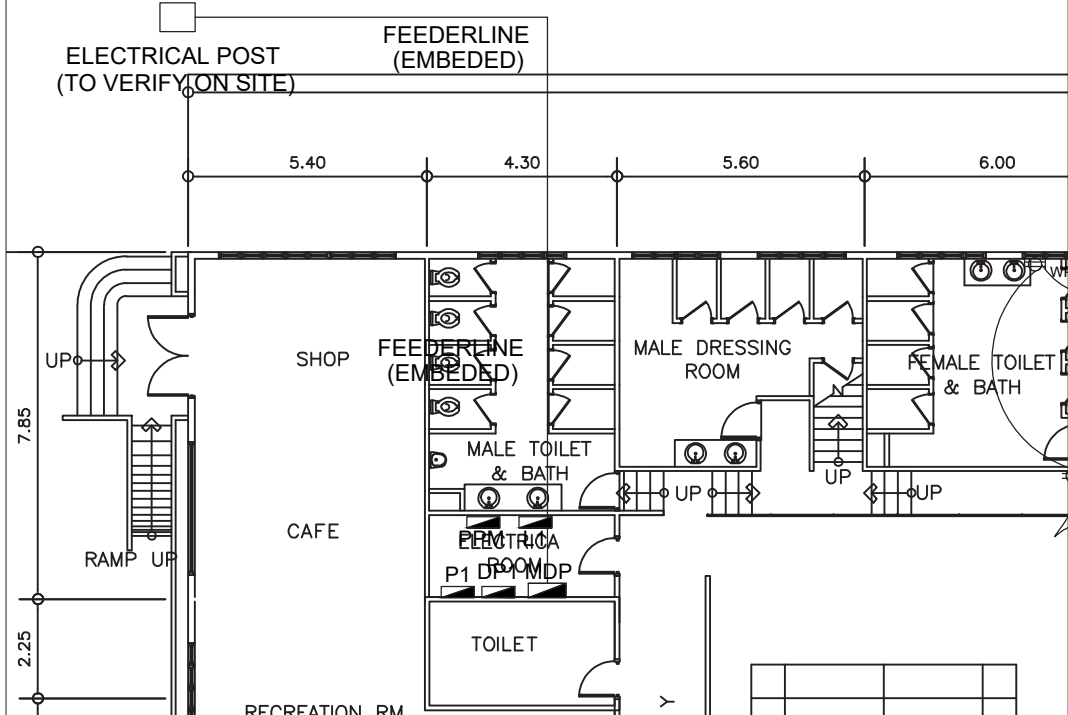
LEGEND

	MAIN DISTRIBUTION PANELBOARD
	DUPLEX CONVENIENCE OUTLET
	CEILING MOUNTED DUPLEX CONVENIENCE OUTLET
	FLOOR MOUNTED DUPLEX CONVENIENCE OUTLET
	WP-WEATHERPROOF DUPLEX C.O. WITH GFCI
	ACU-AIRCON OUTLET
	2-T8 LED SURFACE MOUNTED TROFFER WITH DIFFUSER (4000K/DAYLIGHT/28W)
	8-E27 LED ART DECO TYPE SURFACE MOUNTED CHANDELIER (3000K/WW/50W)
	1-T9 CIRCLINE LED ART DECO TYPE SURFACE MOUNTED DOWNLIGHT WITH DIFFUSER (3000K/WW/20W)
	1-T5 LED LIGHTING FOR BACKLIT MIRRORS (SEE TOILET DETAIL) (3000K/WW/7W EACH)
	1-LED ROPE LIGHT (WW)
	2 PIN TRACK BAR W/ MR16/GU10 LED MOVEABLE TRACK LIGHTS (3000K/WW/5W EACH)
	1-MR16/GU10 LED SURFACE MOUNTED SPOTLIGHT (3000K/WW/5W)
	2-E27 LED ART DECO WALL SCONCE (3000K/WW/20W)
	1-E27 LED ART DECO WALL SCONCE UPLIGHT (3000K/WW/18W)
	1-T5 LED ART DECO WALL SCONCE DOWNLIGHT (3000K/WW/8W)
	1-MR16 LED CANISTER TYPE WALL SCONCE UPLIGHT (3000K/WW/7W)
	1-E27 LED SURFACE MOUNTED PINLIGHT WITH GLOBULAR DIFFUSER (4000K/DAYLIGHT/9W)
	1-E27 LED PENDANT DOWNLIGHT (3000K/WW/9W)
	1-E27 LED RECESSED MOUNTED PINLIGHT WITH DIFFUSER (4000K/DAYLIGHT/9W)
	1-E27 LED SURFACE MOUNTED PINLIGHT WITH DIFFUSER (4000K/DAYLIGHT/9W)
	1-HIGH BAY LED PENDANT LIGHT WITH DIFFUSER (VERIFY LUMENS)
	1-LED EXIT SIGNAGE WITH 90 MIN BATTERY LIFE
	1-LED AUTOMATIC EMERGENCY LIGHTING
	1-LOW BAY LED PENDANT LIGHT WITH DIFFUSER (VERIFY LUMENS)
	LEGEND

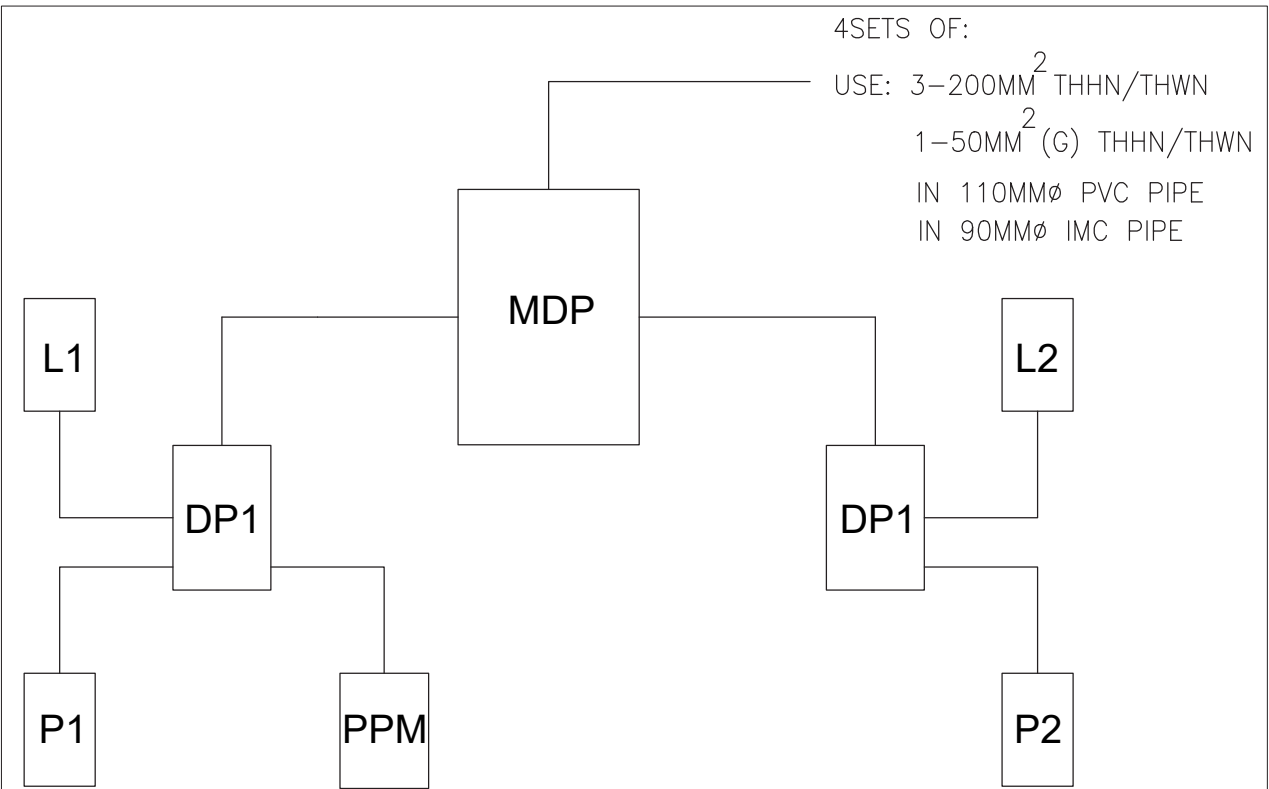
PEDESTAL DETAIL



FEEDERLINE LAYOUT



ONELINE DIAGRAM



SCOPE OF WORK

- SUPPLY AND INSTALLATION OF THE FOLLOWING:
 - WIRES AND WIRING DEVICES
 - COMPLETE WIRING
 - LIGHTING FIXTURES
 - LIGHTING SWITCHES
 - NEMA 4X STAINLESS FOR AIRCON
 - CONVENIENCE OUTLETS GROUNDING TYPE
 - CONDUITS-PVC PIPES
 - CONDUIT SUPPORTS
 - PULLBOXES, JUNCTION BOXES, UTILITY BOX
 - CONSUMABLE MATERIALS
 - SUPPLY AND INSTALLATION OF PANEL BOARD
 - GROUNDING & BONDING SYSTEM
 - CONSTRUCTION SAFETY & HEALTH PROGRAM
 - CHIPPING, BORING, & RESTORATION
 - COMPLETE WITH FITTINGS & SUPPORT.

GENERAL NOTES

- THE ELECTRICAL INSTALLATION HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF THE EXISTING LOCAL ORDINANCES, RULES AND REGULATIONS OF THE MANILA CITY HALL, AND WITH REQUIREMENTS OF THE LOCAL POWER UTILITY COMPANY.
- POWER SERVICE TO BE SUPPLIED SHALL BE 230V, SINGLE PHASE, 2P, 3-WIRES, 60 Hz, A.C.
- WIRE COLOR CODING SHALL BE STRICTLY IMPLEMENTED, REFER TO WIRE COLOR SCHEDULE
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR LOCATION AND PURPOSE
- THE ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN
- WHENEVER REQUIRED AND NECESSARY, PULL BOXES AND JUNCTION BOXES OF APPROPRIATE SIZES SHALL BE INSTALLED AT CONVENIENT AND INCONSPICUOUS LOCATIONS ALTHOUGH SUCH BOXES ARE NOT SHOWN ON THE PLANS
- THE CONTRACTOR IS NOT ALLOWED TO SUBSTITUTE SPECIFIED MATERIALS WITHOUT THE APPROVAL OF INSPECTOR AND THE END USER
- UNLESS OTHERWISE SPECIFIED, THE MINIMUM SIZE OF WIRE & CONDUIT SHALL BE 3.5mm² THHN/THWN AND 20mmØ (FOR PVC PIPES).
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATIONS, AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED
- MOUNTING HEIGHTS OF WIRING DEVICES AND PANEL BOARDS, ACCORDING TO PEC.
- ALL METALLIC CABINETS/FRAMES SHALL BE BONDED & GROUNDED AS PER LATEST EDITION OF PEC.
- LABEL ALL PANELBOARD AND BRANCH CIRCUIT APPROPRIATELY.

MDP

CIRCUIT NUMBER	VOLTS	LOAD DESCRIPTION NO. & VA OF OTHERS	P H A S E L O A D I N G				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØBC	ØCA	3Ø	POLE	FRAME	TRIP	WIRE	CONDUIT
1	230	DP1	61.57	55.61	68.18	36.00	3	225	225	15ETS- 3-125MM ² THHN/THWN & 1-30MM ² (G) THHN/THWN	90MMØ PVC PIPE
2	230	PD2	66.30	69.82	74.52	36.00	3	225	225	15ETS- 3-125MM ² THHN/THWN & 1-30MM ² (G) THHN/THWN	90MMØ PVC PIPE
3	230	PPM	72.00	72.00	72.00	416.00	3	800	700	25ETS- 3-200MM ² THHN/THWN & 1-50MM ² (G) THHN/THWN	110MMØ PVC PIPE
4	230	SPACE									
COMPUTATION:			199.87	197.43	214.7	488.00	PROTECTION: MAIN: 1200AF/1200AT, 65KAIC, 3POLES, 240V, 60HZ, MCCB BRANCHES: 2x225AT, 3P, BOLT-ON TYPE, MCCB : 1x700AT, 3P, BOLT-ON TYPE, MCCB : 1x SPACE ALL BOLT ON TYPE WITH GROUNDING TERMINAL IN NEMA-1 ENCLOSURE				
			MAIN FEEDER: 4-SETS OF: 3-200MM ² THHN/THWN & 1-50MM ² (G) THHN/THWN IN 90MMØ IMC PIPE / 110MMØ PVC PIPE								
$I_T = \sqrt[3]{3 \times (214.7) + 25\% (104.00) + 488.00 = 885.88 \text{AMP}}$											

DP1

CIRCUIT NUMBER	VOLTS	LOAD DESCRIPTION NO. & VA OF OTHERS	P H A S E L O A D I N G				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØBC	ØCA	3Ø	POLE	FRAME	TRIP	WIRE	CONDUIT
1	230	L1	29.23	23.36	35.84		3	100	100	3-30MM ² THHN/THWN & 1-8.0MM ² (G)THHN/THWN	50MMØ PVC PIPE
2	230	P1	32.34	32.25	32.34		3	100	100	3-30MM ² THHN/THWN & 1-8.0MM ² (G)THHN/THWN	50MMØ PVC PIPE
3	230	SPARE				18.00	3	50	50		
4	230	SPARE				18.00	3	50	50		
			61.57	55.61	68.18	36.00	PROTECTION: MAIN: 225AF/225AT, 65KAIC, 3POLES, 230V, 60HZ, MCCB. BRANCHES: 2x100AT, 3P, BOLT-ON TYPE, MCCB. : 2x50AT, 3P, BOLT-ON TYPE, MCCB ALL BOLT-ON TYPE IN NEMA-1 ENCLOSURE WITH GROUNDING TERMINAL				
COMPUTATION:			MAIN FEEDER: 1-SETS OF: 3-125MM ² THHN/THWN & 1-30MM ² (G)THHN/THWN IN 80MMØ IMC PIPE / 90MMØ PVC PIPE								
$I_T = \sqrt[3]{3 \times (68.18) + 25\% (8.00) + 36.00 = 156.09 \text{ AMP}}$											

DP2

CIRCUIT NUMBER	VOLTS	LOAD DESCRIPTION NO. & VA OF OTHERS	P H A S E L O A D I N G				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØBC	ØCA	3Ø	POLE	FRAME	TRIP	WIRE	CONDUIT
1	230	L2	34.73	37.48	36.95		3	100	100	3-30MM ² THHN/THWN & 1-8.0MM ² (G)THHN/THWN	50MMØ PVC PIPE
2	230	P2	31.57	32.34	37.57		3	100	100	3-30MM ² THHN/THWN & 1-8.0MM ² (G)THHN/THWN	50MMØ PVC PIPE
3	230	SPARE				18.00	3	50	50		
4	230	SPARE				18.00	3	50	50		
			66.30	69.82	74.52	36.00	PROTECTION:				
COMPUTATION:			MAIN FEEDER:				MAIN: 225AF/225AT, 65KAIC, 3POLES, 230V, 60HZ, MCCB. BRANCHES: 2x100AT, 3P, BOLT-ON TYPE, MCCB. : 2x50AT, 3P, BOLT-ON TYPE, MCCB ALL BOLT-ON TYPE IN NEMA-1 ENCLOSURE WITH GROUNDING TERMINAL				
			1-SETS OF: 3-125MM ² THHN/THWN & 1-30MM ² (G)THHN/THWN IN 80MMØ IMC PIPE / 90MMØ PVC PIPE								
$I_T = \sqrt[3]{3 \times (74.52) + 25\% (8.00) + 36.00 = 163.61 \text{ AMP}}$											

PPM

CIRCUIT NUMBER	VOLTS	LOAD DESCRIPTION	P H A S E L O A D I N G				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØBC	ØCA	3Ø	POLE	FRAME	TRIP	WIRE	CONDUIT
1	230	1-40TR ACQU (VERIFY ON SITE LOCATION)				104	3	225	175	3-80MM ² THHN/THWN & 1-22MM ² (G) THHN/THWN	75MMØ PVC PIPE
2	230	1-40TR ACQU (VERIFY ON SITE LOCATION)				104	3	225	175	3-80MM ² THHN/THWN & 1-22MM ² (G) THHN/THWN	75MMØ PVC PIPE
3	230	1-40TR ACQU (VERIFY ON SITE LOCATION)				104	3	225	175	3-80MM ² THHN/THWN & 1-22MM ² (G) THHN/THWN	75MMØ PVC PIPE
4	230	1-40TR ACQU (VERIFY ON SITE LOCATION)				104	3	225	175	3-80MM ² THHN/THWN & 1-22MM ² (G) THHN/THWN	75MMØ PVC PIPE
5	230	FCU-1 (VERIFY ON SITE LOCATION)	18.00				2	50	50	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
6	230	FCU-2 (VERIFY ON SITE LOCATION)		18.00			2	50	50	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
7	230	FCU-3 (VERIFY ON SITE LOCATION)			18.00		2	50	50	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
8	230	FCU-4 (VERIFY ON SITE LOCATION)	18.00				2	50	50	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
9	230	FCU-5 (VERIFY ON SITE LOCATION)		18.00			2	50	50	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
10	230	FCU-6 (VERIFY ON SITE LOCATION)			18.00		2	50	50	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
11	230	FCU-7 (VERIFY ON SITE LOCATION)	18.00				2	50	50	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
12	230	WATER PUMP 1		18.00			2	50	30	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
13	230	WATER PUMP 2			18.00		2	50	30	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
14	230	WATER PUMP 3	18.00				2	50	30	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
15	230	SPARE		18.00			2	50	30	2-8.0MM ² THHN/THWN & 1-5.5MM ² (G) THHN/THWN	25MMØ PVC PIPE
16	230	SPARE			18.00		2	50	30		
			72.00	72.00	72.00	416.00					
COMPUTATION:			MAIN FEEDER: 2-SETS OF: USE: 3-200MM ² THHN/THWN & 1-50MM ² (G) THHN/THWN IN 90MMØ IMC PIPE / 110MMØ PVC PIPE				PROTECTION: MAIN: 800AF/700AT, 85KAIC, 3POLES, 240V, 60HZ. BRANCHES: 4x175AT, 3P, BOLT-ON TYPE, MCCB : 7x50AT, 2P, BOLT-ON TYPE : 5x30AT, 2P, BOLT-ON TYPE ALL BOLT ON TYPE WITH GROUNDING TERMINAL IN NEMA-1 ENCLOSURE				
$I_T = \sqrt[3]{3 \times (72.00) + 25\% (104.00) + 416.00} = 566.707 \text{ AMP}$ 566.707 X.80% DF=453.37AMP											



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:
REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL

LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:
ENGR. PEDRO I. PINEDA JR.
HEAD, ENGINEERING SECTION

RECOMMENDING APPROVAL:
DIR. MERLITA R. IBAY
OIC, EXECUTIVE DIRECTOR

APPROVED BY:
HON. WILLIAM I. RAMIREZ
CHAIRMAN

SHEET CONTENTS:
GENERAL NOTES

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

SHEET NUMBER
E1-01

		GROUND FLOOR										100AF/100AT,3P			
CIRCUIT NUMBER	VOLTS	LOAD DESCRIPTION	PHASE LOADING				CIRCUIT BREAKER			HOMERUN					
		NO. & VA OF OTHERS	ØAB	ØBC	ØCA	3Ø	POLE	FRAME	TRIP	WIRE		CONDUIT			
1	230	37-LIGHTING (GF)	4.03				2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
2	230	26-LIGHTING (GF)		5.65			2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
3	230	30-LIGHTING (GF)			3.26		2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
4	230	26-LIGHTING (GF)	2.83				2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
5	230	16-LIGHTING (GF)		3.48			2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
6	230	44-LIGHTING (GF)			4.79		2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
7	230	21-LIGHTING (GF)	2.83				2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
8	230	21-LIGHTING (GF)		4.57			2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
9	230	20-LIGHTING (GF)			2.18		2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
10	230	22-LIGHTING (GF)	2.40				2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
11	230	8-LIGHTING (2F)		1.74			2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
12	230	9-LIGHTING (2F)			9.78		2	50	30	$2 \cdot 5.5MM^2 THHN / THWN \# 1 - 5.5MM^2 G / ITHN / THWN$		25MMØ PVC PIPE			
13	230	6-LIGHTING (2F)	1.31				2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
14	230	8-LIGHTING (2F)		1.74			2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
15	230	6-LIGHTING (2F)			7.83		2	50	30	$2 \cdot 5.5MM^2 THHN / THWN \# 1 - 5.5MM^2 G / ITHN / THWN$		25MMØ PVC PIPE			
16	230	6-LIGHTING (2F)	7.83				2	50	30	$2 \cdot 5.5MM^2 THHN / THWN \# 1 - 5.5MM^2 G / ITHN / THWN$		25MMØ PVC PIPE			
17	230	10-LIGHTING (2F)		2.18			2	50	20	$2 \cdot 3.5MM^2 THHN / THWN \# 1 - 3.5MM^2 G / ITHN / THWN$		20MMØ PVC PIPE			
18	230	20-LIGHTING (PERIMETER)			4.00		2	50	30	$2 \cdot 5.5MM^2 THHN / THWN \# 1 - 5.5MM^2 G / ITHN / THWN$		25MMØ PVC PIPE			
19	230	SPARE	4.00				2	50	20						
20	230	SPARE		4.00			2	50	20						
21	230	SPARE			4.00		2	50	20						
22	230	SPARE	4.00				2	50	20						
COMPUTATION:			29.23	23.36	35.84										
			MAIN FEEDER:												
			3-30MM ² THHN / THWN # 1-8.0MM ² G / ITHN / THWN												
			IN 40MMØ IMC PIPE / 50MMØ PVC PIPE												

L2		GROUND FLOOR										100AF/100AT,3P					
CIRCUIT NUMBER	VOLTS	LOAD DESCRIPTION	P H A S E L O A D I N G				CIRCUIT BREAKER				HOMERUN						
		NO. & VA OF OTHERS	ØAB	ØBC	ØCA	3Ø	POLE	FRAME	TRIP	WIRE	CONDUIT						
1	230	22-LIGHTING (GF)	4.78				2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
2	230	13-LIGHTING (GF)		2.83			2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
3	230	12-LIGHTING (GF)			5.21		2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
4	230	21-LIGHTING (GF)	4.56				2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
5	230	21-LIGHTING (GF)		4.56			2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
6	230	21-LIGHTING (GF)			9.31		2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
7	230	17-LIGHTING (GF)	7.39				2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
8	230	22-LIGHTING (GF)		4.78			2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
9	230	9-LIGHTING (GF)			3.92		2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
10	230	6-LIGHTING (2F)	7.83				2	50	30	2-5.5MM ² THHN/THWN# 1-5.5MM ² GITHN/THWN	25MMØ PVC PIPE						
11	230	6-LIGHTING (2F)		7.83			2	50	30	2-5.5MM ² THHN/THWN# 1-5.5MM ² GITHN/THWN	25MMØ PVC PIPE						
12	230	6-LIGHTING (2F)			7.83		2	50	30	2-5.5MM ² THHN/THWN# 1-5.5MM ² GITHN/THWN	25MMØ PVC PIPE						
13	230	4-LIGHTING (2F)	0.87				2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
14	230	9-LIGHTING (2F)			11.74		2	50	30	2-5.5MM ² THHN/THWN# 1-5.5MM ² GITHN/THWN	25MMØ PVC PIPE						
15	230	5-LIGHTING (2F)			2.16		2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
16	230	6-LIGHTING (2F)	1.30				2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
17	230	8-LIGHTING (2F)		1.74			2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
18	230	9-LIGHTING (PERIMETER)			4.00		2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
19	230	3-LIGHTING (PERIMETER)	4.00				2	50	20	2-3.5MM ² THHN/THWN# 1-3.5MM ² GITHN/THWN	20MMØ PVC PIPE						
20	230	SPARE		4.00			2	50	20	<div> <div></div> <div></div> <div></div> </div>							
21	230	SPARE			4.00		2	50	20								
22	230	SPARE	4.00				2	50	20								
COMPUTATION:			34.73	37.46	36.95	PROTECTION: MAIN: 100AF/100AT, 35KAIC, 3POLES, 230V, 60HZ, MCCB. BRANCHES: 1&2&20F, 2P, BOLT-ON TYPE BRANCHES: 4&30AT, 2P, BOLT-ON TYPE ALL BOLT-ON TYPE IN NEMA-1 ENCLOSURE WITH GROUNDING TERMINAL											
			MAIN FEEDER:			3-30MM ² THHN/THWN# 1-8.0MM ² GITHN/THWN IN 40MMØ IMC PIPE / 50MMØ PVC PIPE											
I _T = $\sqrt[3]{3 \text{ (37.46)}} = 64.91 \text{ AMP}$																	

[illegible][illegible]

SCHEDULE OF LOADS



SUBMITTED BY:

ENGR. PEDRO I. PINEDA JR.

HEAD, ENGINEERING SECTION

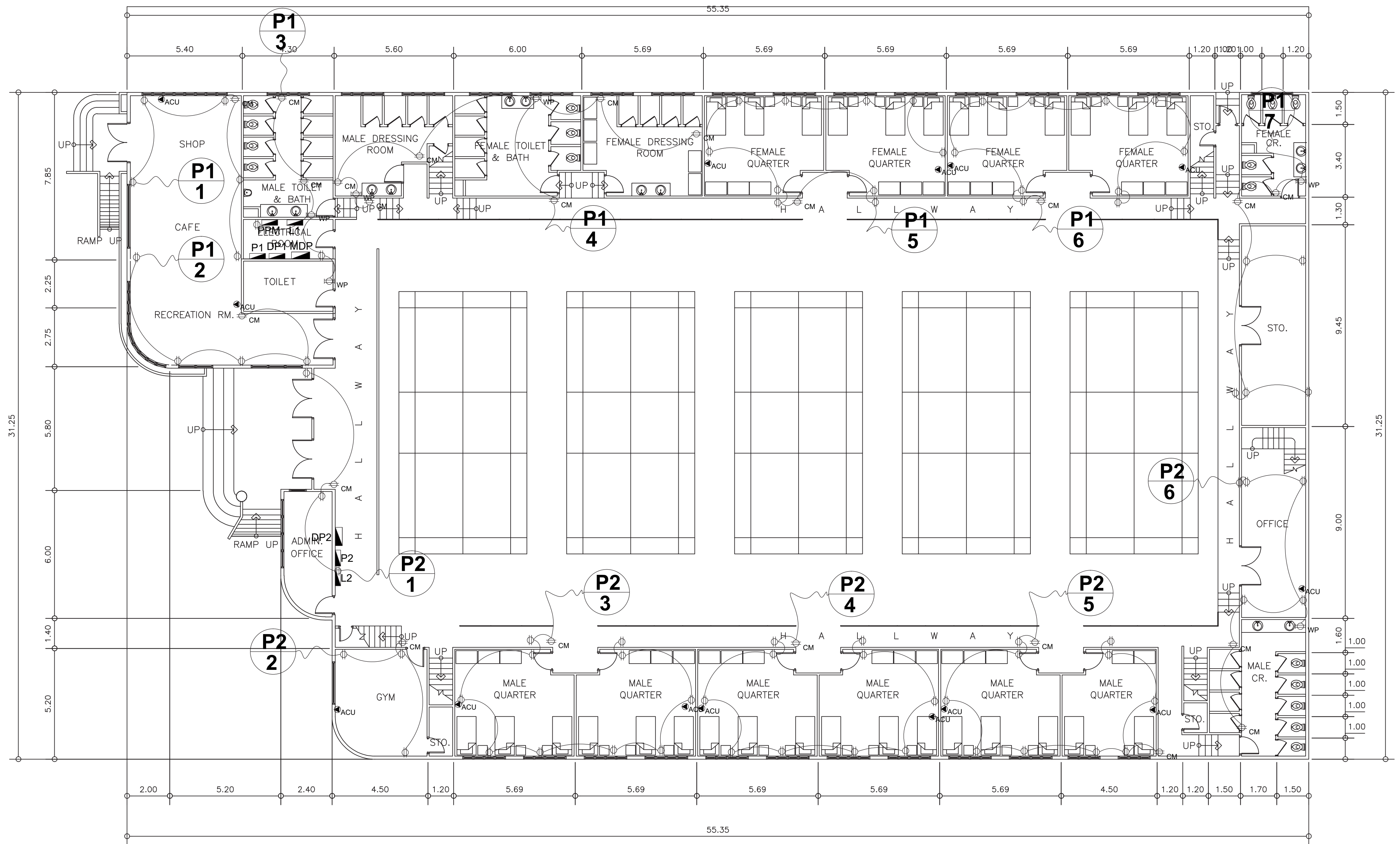
PROVED BY:

HON. WILLIAM I. RAMIREZ

CHAIRMAN

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

E2-01



GROUND FLOOR POWER AND FEEDERLINE LAYOUT
SCALE: 1:100MTS



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:

**REHABILITATION OF THE
RIZAL MEMORIAL BADMINTON HALL**

LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST., MALATE, MANILA

SUBMITTED BY:

ENGR. PEDRO I. PINEDA JR.

HEAD, ENGINEERING SECTION

RECOMMENDING APPROVAL:

DIR. MERLITA R. IBAY

OIC, EXECUTIVE DIRECTOR

APPROVED BY:

HON. WILLIAM I. RAMIREZ

CHAIRMAN

SHEET CONTENTS:

GROUND FLOOR POWER
AND FEEDERLINE LAYOUT

DESIGN BY:

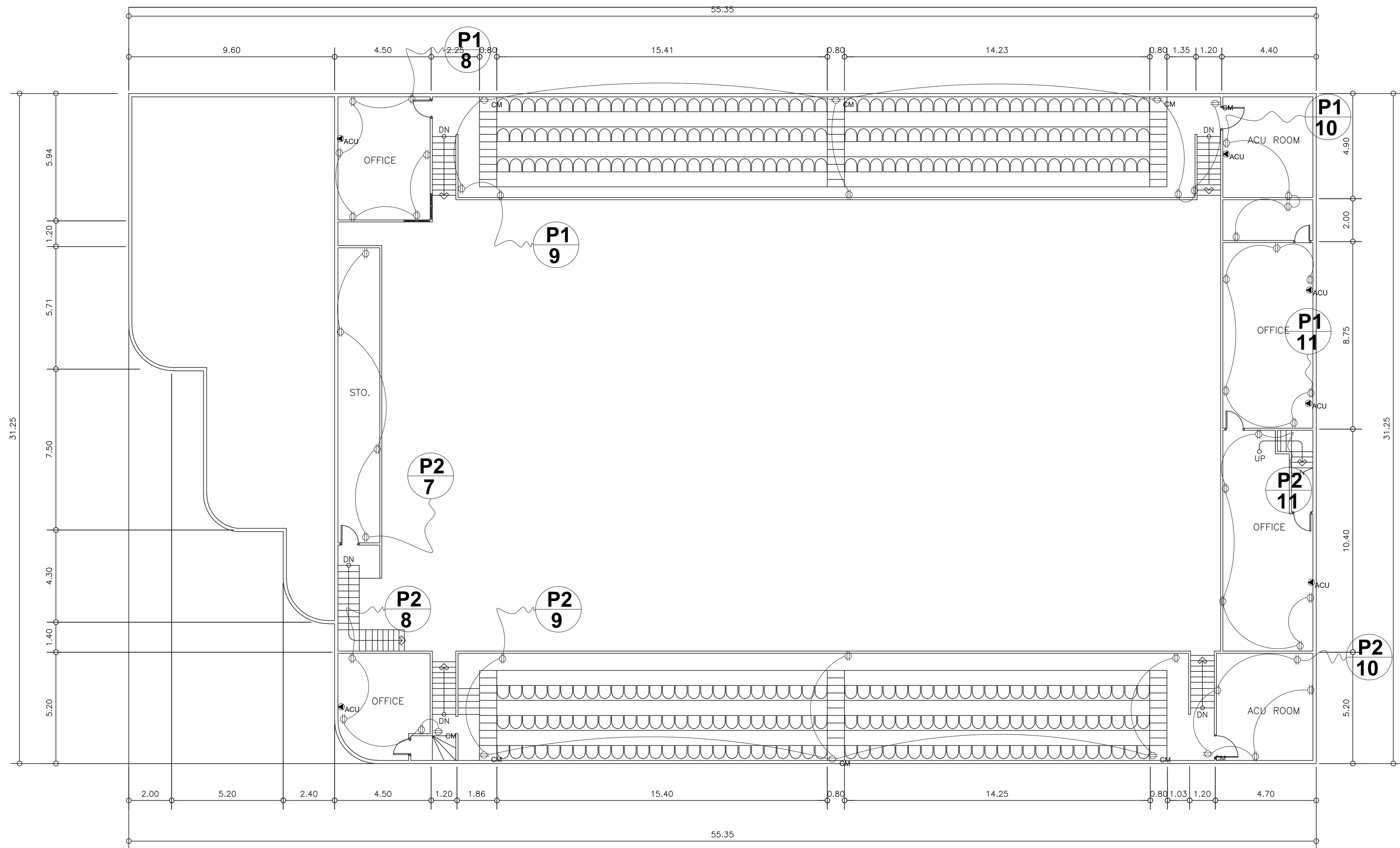
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SHEET NUMBER

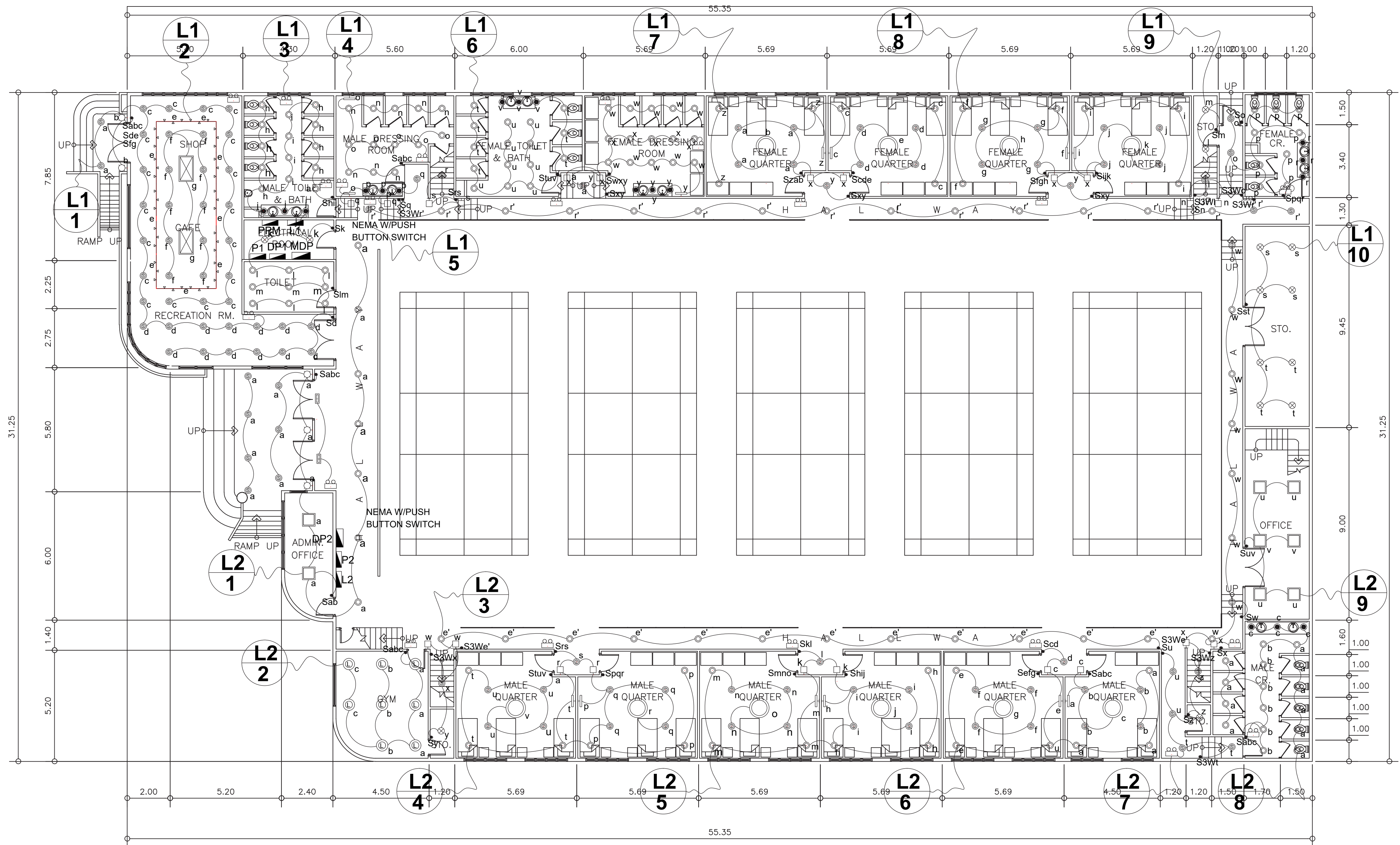
E3-01



SECOND FLOOR POWER LAYOUT
SCALE: 1:100MTS

 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	PROJECT TITLE:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DESIGN BY:	SHEET NUMBER
	REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL				SECOND FLOOR POWER LAYOUT	DRAWN BY:	
		ENGR. PEDRO I. PINEDA JR.	DIR. MERLITA R. IBAY	HON. WILLIAM I. RAMIREZ		CHECKED BY:	
	LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST., MALATE, MANILA	HEAD, ENGINEERING SECTION	OIC, EXECUTIVE DIRECTOR	CHAIRMAN		DATE:	

E3-02



GROUND FLOOR LIGHTING LAYOUT
SCALE: 1:100M



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:

**REHABILITATION OF THE
RIZAL MEMORIAL BADMINTON HALL**

LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST., MALATE, MANILA

SUBMITTED BY:

ENGR. PEDRO I. PINEDA JR.

HEAD, ENGINEERING SECTION

RECOMMENDING APPROVAL:

DIR. MERLITA R. IBAY

OIC, EXECUTIVE DIRECTOR

APPROVED BY:

HON. WILLIAM I. RAMIREZ

CHAIRMAN

SHEET CONTENTS:

GROUND FLOOR LIGHTING LAYOUT

DESIGN BY:

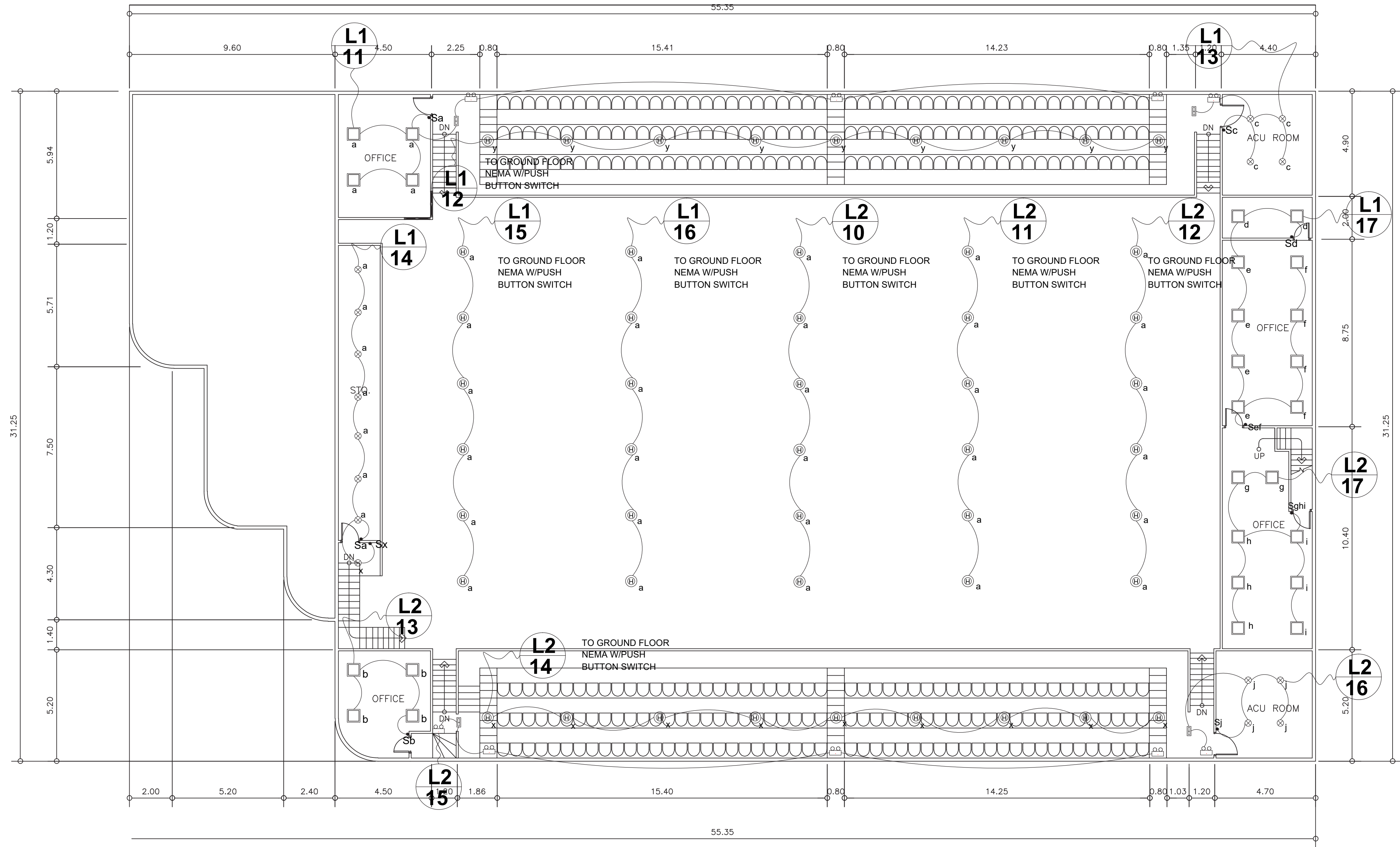
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DATE:

SHEET NUMBER

E4-01



SECOND FLOOR LIGHTING LAYOUT
SCALE: 1:100MTS



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:

**REHABILITATION OF THE
RIZAL MEMORIAL BADMINTON HALL**

LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST., MALATE, MANILA

SUBMITTED BY:

ENGR. PEDRO I. PINEDA JR.

HEAD, ENGINEERING SECTION

RECOMMENDING APPROVAL:

DIR. MERLITA R. IBAY

OIC, EXECUTIVE DIRECTOR

APPROVED BY:

HON. WILLIAM I. RAMIREZ

CHAIRMAN

SHEET CONTENTS:

SECOND FLOOR LIGHTING LAYOUT

DESIGN BY:

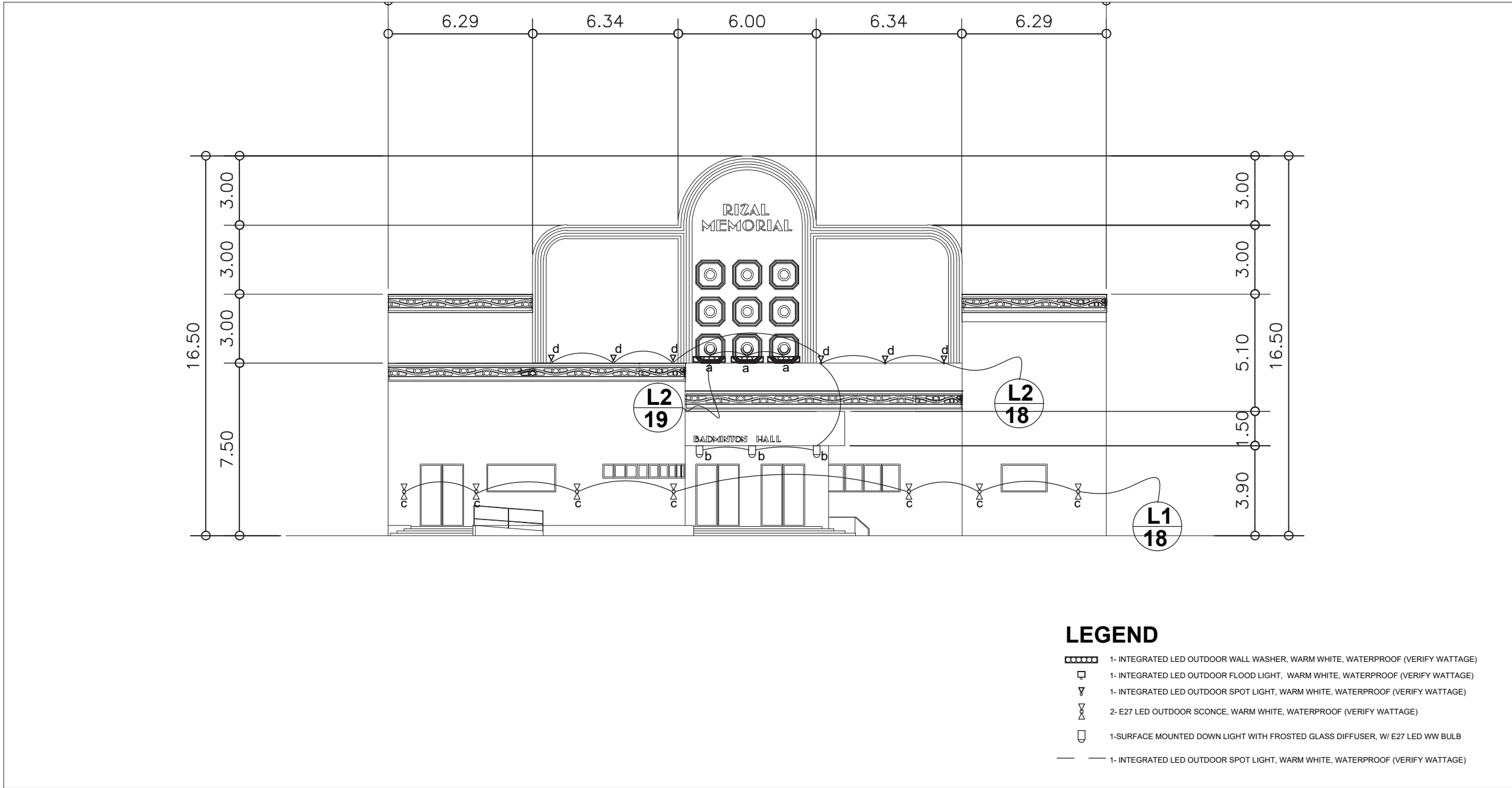
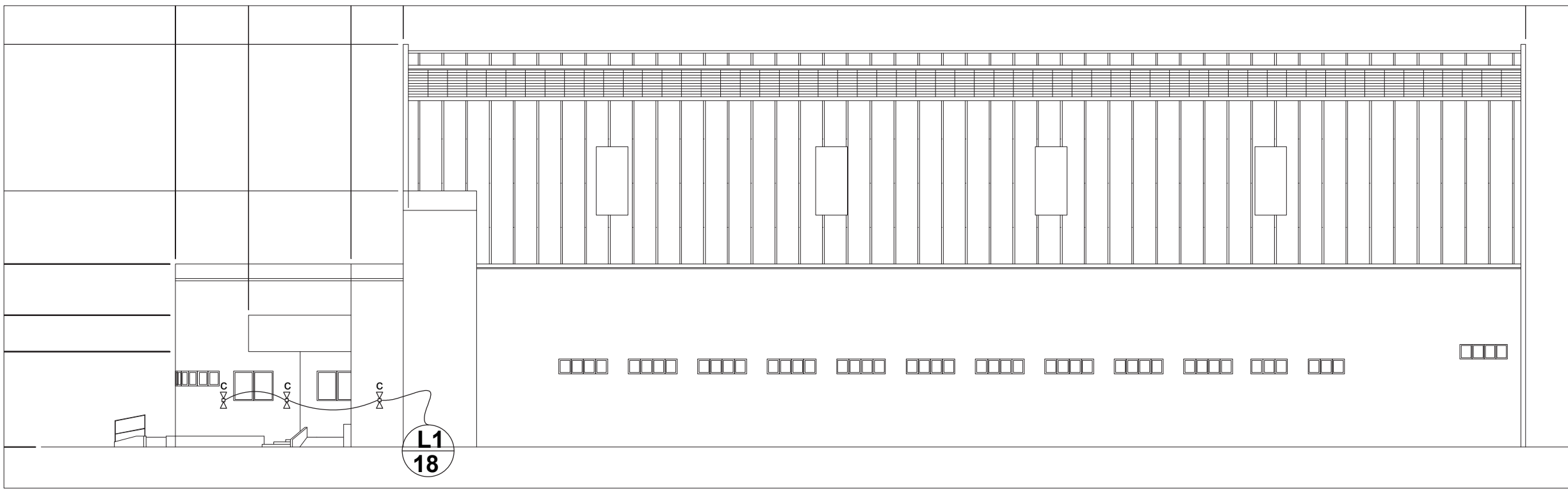
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SHEET NUMBER

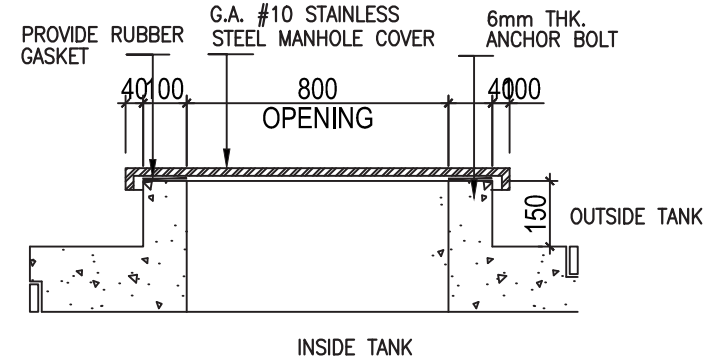
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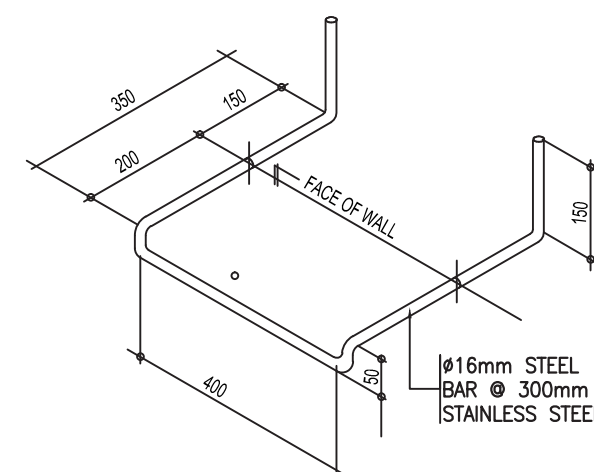
SIGNAGE AND PERIMETER LIGHTING LAYOUT
SCALE: 1:100M/TS

 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	PROJECT TITLE:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DESIGN BY:	SHEET NUMBER
	REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL				SIGNAGE AND PERIMETER LIGHTING LAYOUT	DRAWN BY:	
						CHECKED BY:	
						DATE:	
	LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA	ENGR. PEDRO I. PINEDA JR. HEAD, ENGINEERING SECTION	DIR. MERLITA R. IBAY OIC, EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN			E4-03

1. ALL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
2. ALL INSTALLATION THEREIN SHALL BE DONE TO THE BEST PRACTICE OF THE PROFESSION SUPERVISED DURING CONSTRUCTION BY A MASTER PLUMBER.
3. COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATION. THE EMPLOYER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
4. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATIONS REQD FOR PROPER EXECUTION OF OTHER TRADE SHALL BE W/ PRIOR APPROVAL OF THE EMPLOYER'S REPRESENTATIVE.
5. IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE, FITTING, VALVE AND AFFLUENCE. AS SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED. IF NECESSARY, TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE PLUMBING TRADE AND TO THE SATISFACTION OF THE EMPLOYER'S REPRESENTATIVE.
6. PIPING SHALL BE PROPERLY GRADED OR PITCHED TO ENSURE EASY DRAINAGE. THE MINIMUM SLOPES SHALL BE AS FOLLOWS:
 - a. SANITARY PIPES: FOR 80mm AND BELOW - 1:50
FOR 100mm AND LARGER - 1:100
7. EXACT LOCATION OF EXISTING UTILITIES (WATERLINES, SEWER LINES, MANHOLES, SEPTIC TANK AND STORM DRAINAGE LINES) SHALL BE VERIFIED BY THE CONTRACTOR AT JOBSITE.
8. CONTRACTOR TO CONDUCT WATER SAMPLING ANALYSIS PRIOR TO TURN-OVER FOR APPROVAL BY OWNER OR HIS AUTHORIZED REPRESENTATIVE.
9. THE PROPOSED UTILITIES SHALL BE MADE TO CONFORM TO THE ACTUAL LOCATION, TAPPING POINT, DEPTH AND INVERT LEVELS OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GOVERNMENT / LOCAL CONSTRUCTION OPERATION PERMITS. OTHER PERMITS REQUIRED BY ANY REGULATORY AGENCY.
11. EXTERIOR UNDERGROUND RAMP DISCHARGE PIPES SHALL BE CENTRIFUGALLY CAST IRON PIPE & FITTINGS.
12. ALL WORKS SHALL BE DONE WITH UTMOST CARE AND HIGHEST LEVEL OF QUALITY AND SAFETY; WITH NO ADVERSE DISRUPTION TO EXISTING UTILITIES AND / OR OPERATION.
13. ANY EXISTING UTILITIES EQUIPMENT, PIPING OR PAVED AREAS AFFECTED SHALL BE RESTORED TO ORIGINAL CONDITION AND BE PROPERLY SCHEDULED PRIOR TO ACTUAL WORK WITH THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.
14. ALL PIPES PENETRATING THRU WALLS, CEILING, FLOORS SHALL BE ACOUSTICALLY SEALED WITH STC FIRE RATED MATERIALS.
15. ALL PIPE SIZES INDICATED IN THE DRAWINGS ARE NOMINAL AND IN REFERENCE TO ITS INTERNAL DIAMETER. IT SHALL NOT BE CONSIDERED AS COMMERCIAL SIZE.
16. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL MATERIALS SAMPLE OF PIPES TO BE INSTALLED PRIOR TO INSTALLATION.
17. ALL PIPE SLEEVES SHALL CONFORM TO STRUCTURAL SLEEVING DETAIL.
18. POLYPROPYLENE AND OTHER PLASTIC PIPES AND FITTINGS SHALL CONFORM TO THE DIMENSIONAL REQUIREMENT OF SCHEDULE 40 IRON PIPE SIZE AS INDICATED BELOW:



Technical cross-section diagram of a roof penetration detail. The diagram shows a vertical pipe passing through a roof structure. From top to bottom, the layers are: G.I. SHEET, FINE SCREED, ELASTOMER ROOFING MEMBRANE, BASE FELT, and ELASTOMER FLASHING. A vertical dimension line on the left indicates a height of 150 units. A horizontal centerline is labeled 'C'. At the bottom, a section of the pipe is labeled 'C.A. ROOF ROOF'.



NTS

SCALE

U-TYPE HANGER FOR CROSS MAIN AND FEED MAIN

ADJUSTABLE SWIVEL RING HANGER WITH EXPANSION SHIELD

CENTER I-BEAM CLAMP FOR BRANCH LINE

ADJUSTABLE FLAT IRON HANGER

V-TYPE HANGER FOR BRANCH LINE

SIDE BEAM ADJUSTABLE

C-TYPE CLAMP WITH RETAINING STRAP

ADJUSTABLE CLIP FOR BRANCH LINE

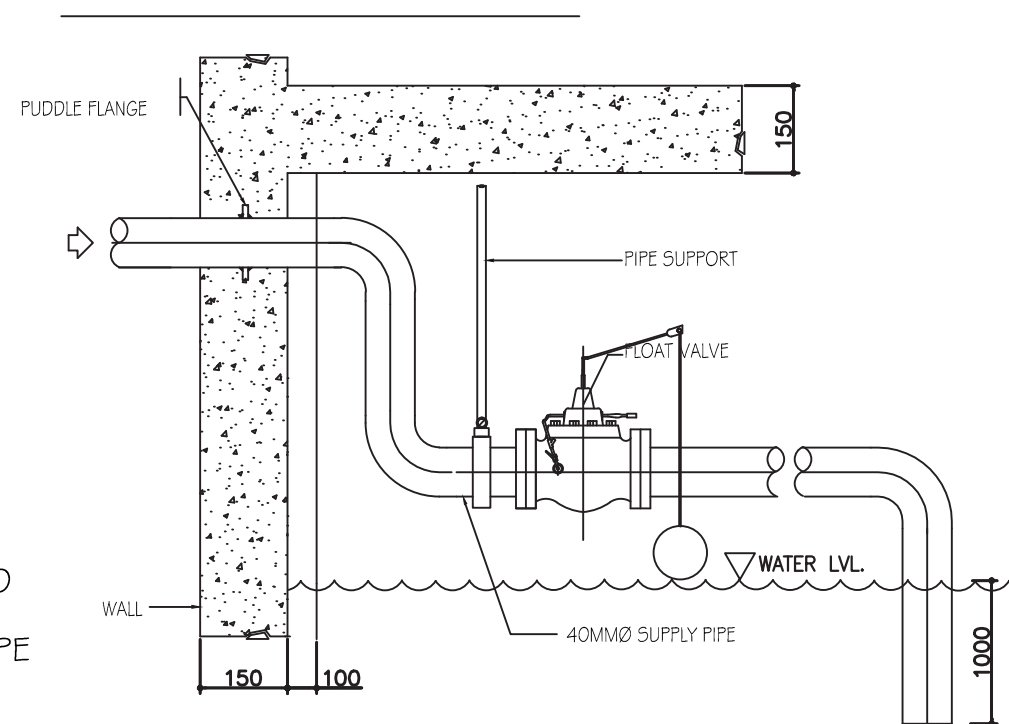
The technical drawings illustrate the dimensions and components of the 2-12mm Anchor Straps. The **PLAN** view shows a cross-section of the strap with a diameter of 2-12mm, a trench width of 2A, and a trench depth of 0.30. The **SECTION** view shows the strap embedded in a vertical thrust block, with a diameter of 2-12mm and a trench width of 2A. The trench depth is also indicated as 0.30.

Diagram illustrating a bent pipe with a horizontal thrust block. The pipe is shown in a bent configuration, supported by a horizontal thrust block. The block is labeled "BEND HOR. THRUST BLOCK". The diagram includes dimensions for the pipe and the block:

- PIPE # SMALLER: 0.45 (MIN.) 250mm
- PIPE # LARGER: 0.60 (MIN.) 300mm
- Block dimensions: 2A, A, A

VENT THRU ROOF DETAIL

SCALE _____ NTS _____

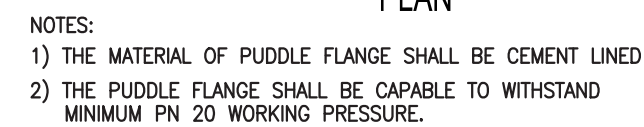


10
P-1

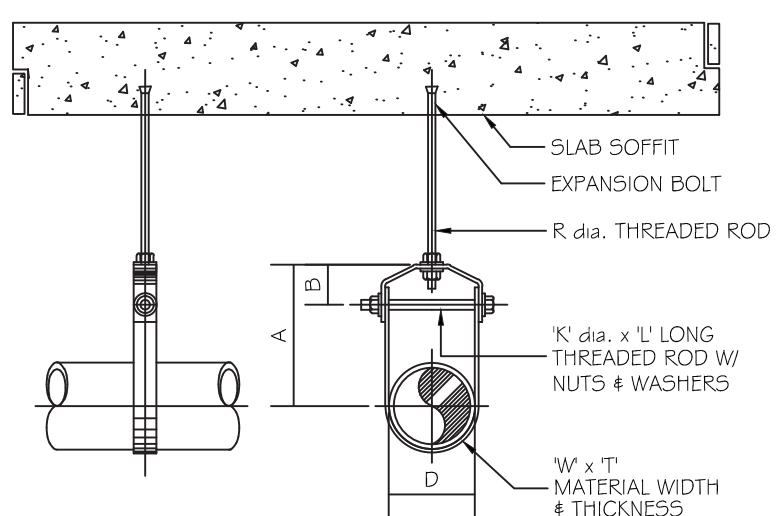
FLOAT VALVE DETAIL

SCALE

NTS



6 PUDDLE FLANGE DETAIL
P-1 SCALE NTS



STANDARD CLEVIS HANGERS TABLE OF DIMENSIONS

D	A	B	R	W x T	K x L
34	80	45	12	25 x 3	M10 x 70
43	90	50	12	25 x 3	M10 x 80
48	95	50	12	25 x 3	M10 x 85
60	105	55	12	25 x 3	M10 x 100
76	115	60	14	40 x 6	M12 x 115
89	125	60	14	40 x 6	M12 x 130
114	145	65	18	40 x 6	M16 x 160
140	165	75	18	40 x 6	M16 x 190
165	185	80	18	40 x 6	M16 x 210

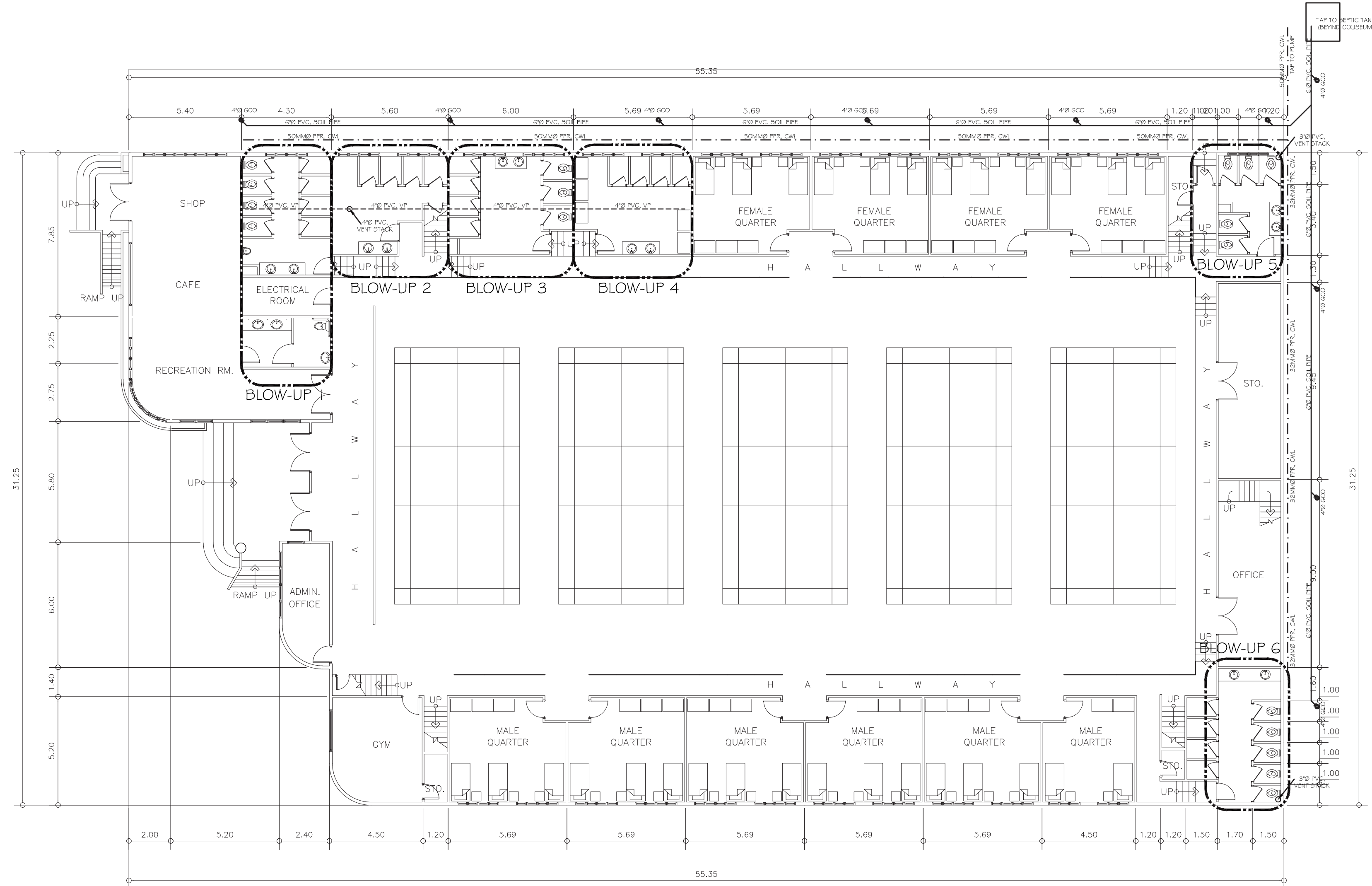
9 PIPE HANGER DETAIL P-1 SCALE NTS

	THRUST BLOCK DIMENSIONS (M)											
PIPE DIA. (MM.)	90° BEND		45° BEND		22½° BEND		11¼° BEND		TEES		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
50-75	0.30	0.20	0.15	0.20	0.10	0.15	0.10	0.15	0.20	0.25	0.20	0.35
100-150	0.40	0.25	0.20	0.25	0.15	0.20	0.15	0.20	0.25	0.30	0.25	0.50
200	0.55	0.32	0.30	0.32	0.20	0.25	0.20	0.25	0.32	0.40	0.30	0.72
250	0.65	0.42	0.35	0.32	0.25	0.32	0.25	0.32	0.40	0.50	0.30	0.90
300	0.72	0.52	0.40	0.52	0.27	0.40	0.27	0.40	0.45	0.60	0.40	1.02

HOT AND COLD WATER LINE EQUIVALENT REQUIREMENT DIAMETER		
NOMINAL PIPE DIAMETER (mm) INSIDE DIAMETER	POLYPROPYLENE, RANDOM (PPR) PIPE PN20 (mm) OUTSIDE DIAMETER	GATE VALVE AND BALL VALVE (mm)
15	20	20
20	25	25
25	32	32
32	40	40
40	50	50
50	63	63
63	75	75
75	90	90
101.60	110	110
150	-	-
200	-	-

----- VENT PIPE (VP) PVC SERIES 1000
 - - - - - COLD WATERLINE (CWL) PPR PN20
 _____ BLACK WATER PIPE/SOIL PIPE (SP) PVC SERIES 1000
 _____ STORM DRAIN LINE (SD) REINFORCED CONCRETE PIPE
 _____ DOWNSPOUT (DS) PVC SERIES 1000
 _____ ROOF DRAIN TRENCH (RDT)

**NOTE: ALL PIPES AND VALVES SHOWN ARE IN NOMINAL PIPE DIAMETER/INTERNAL DIAMETER



**NOTE: ALL PIPES SHOWN ARE IN NOMINAL PIPE DIAMETER/INTERNAL DIAMETER

1
P-02

MAIN WATERLINE AND SOIL PIPE LAYOUT

SCALE

1:150 MTR

- — — — — VENT PIPE (VP) PVC SERIES 1000
- - - - - COLD WATERLINE (CWL) PPR PN20
- BLACK WATER PIPE/SOIL PIPE (SP) PVC SERIES 1000
- - - - - STORM DRAIN LINE (SD) REINFORCED CONCRETE PIPE
- DOWNSPOUT (DS) PVC SERIES 1000
- ROOF DRAIN TRENCH (RDT)



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

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SUBMITTED BY:
ENGR. PEDRO I. PINEDA JR.

HEAD, ENGINEERING SECTION

RECOMMENDING APPROVAL:
DIR. MERLITA R. IBAY

OIC, EXECUTIVE DIRECTOR

APPROVED BY:
HON. WILLIAM I. RAMIREZ

CHAIRMAN

SHEET CONTENTS:
MAIN WATERLINE AND
SOIL PIPE LAYOUT

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

P-02



1
P-03

ROOF DRAIN LAYOUT

SCALE

1:200 MTR

2

P-03

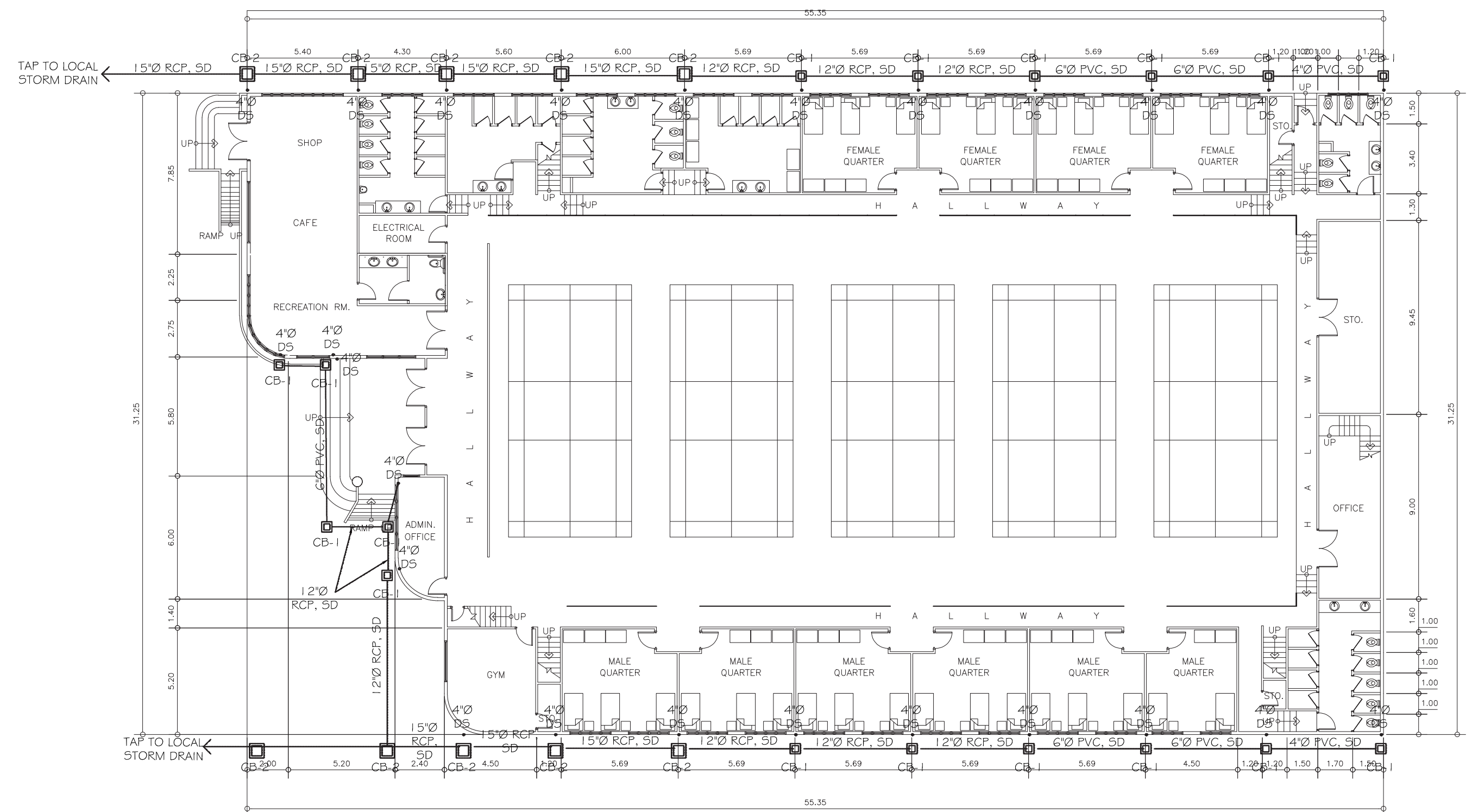
STORM DRAIN LAYOUT

SCALE

1:200 MTR

- VENT PIPE (VP) PVC SERIES 1000
- COLD WATERLINE (CWL) PPR PN20
- BLACK WATER PIPE/SOIL PIPE (SP) PVC SERIES 1000
- STORM DRAIN LINE (SD) REINFORCED CONCRETE PIPE
- DOWNSPOUT (DS) PVC SERIES 1000
- ROOF DRAIN TRENCH (RDT)

**NOTE: ALL PIPES SHOWN ARE IN NOMINAL PIPE DIAMETER/INTERNAL DIAMETER



PHILIPPINE SPORTS COMMISSION
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HON. WILLIAM I. RAMIREZ

CHAIRMAN

SHEET CONTENTS:

ROOF DRAIN LAYOUT
STORM DRAIN LAYOUT

DESIGN BY:

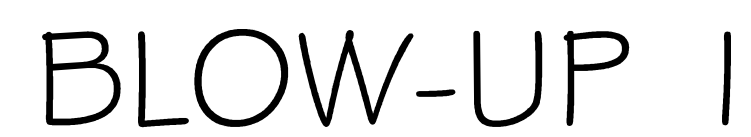
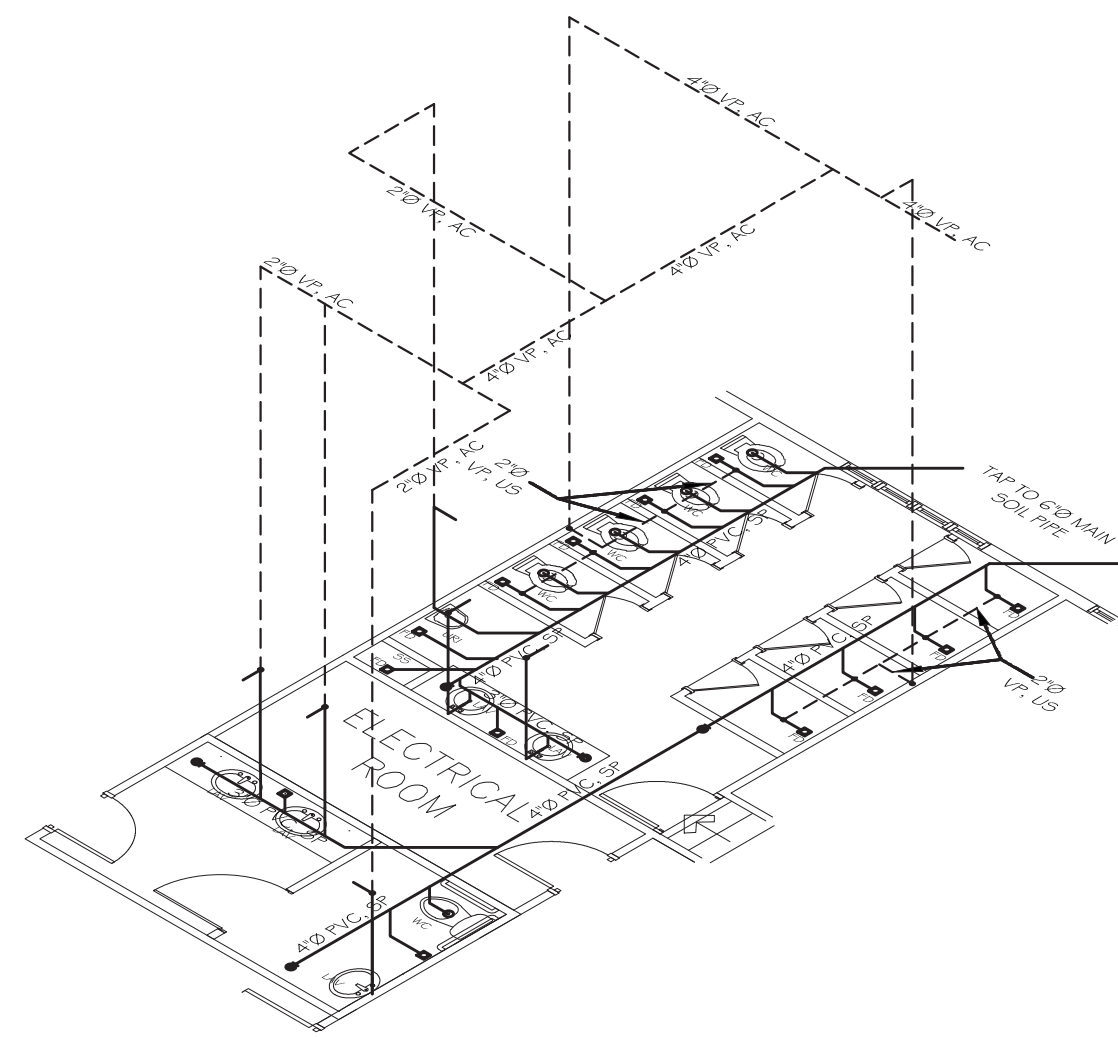
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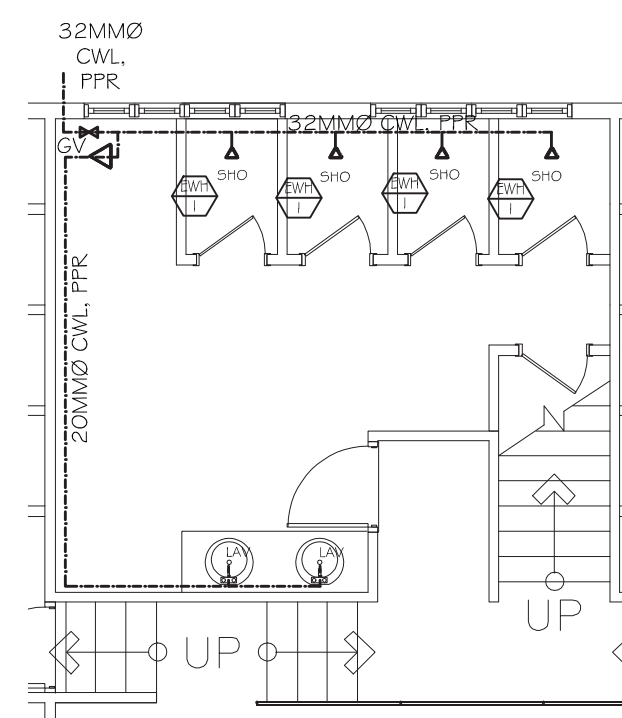
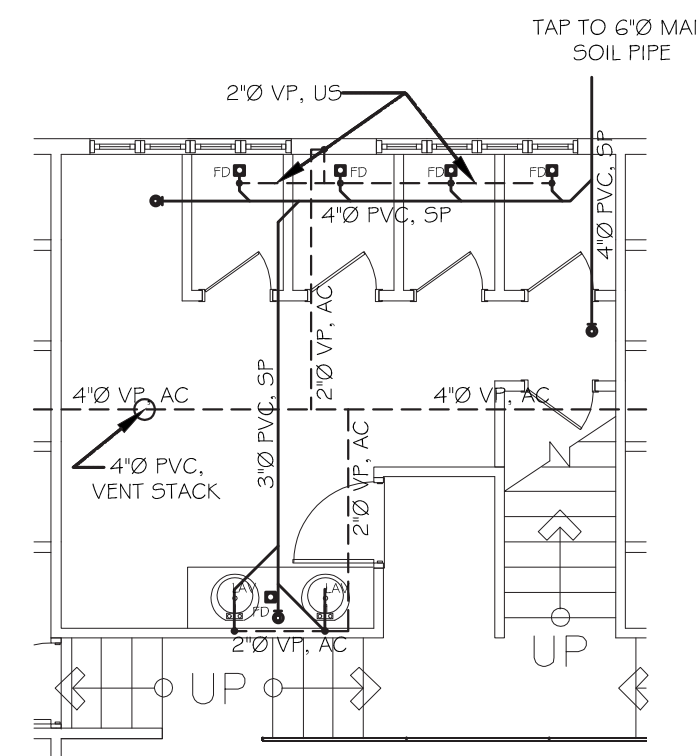
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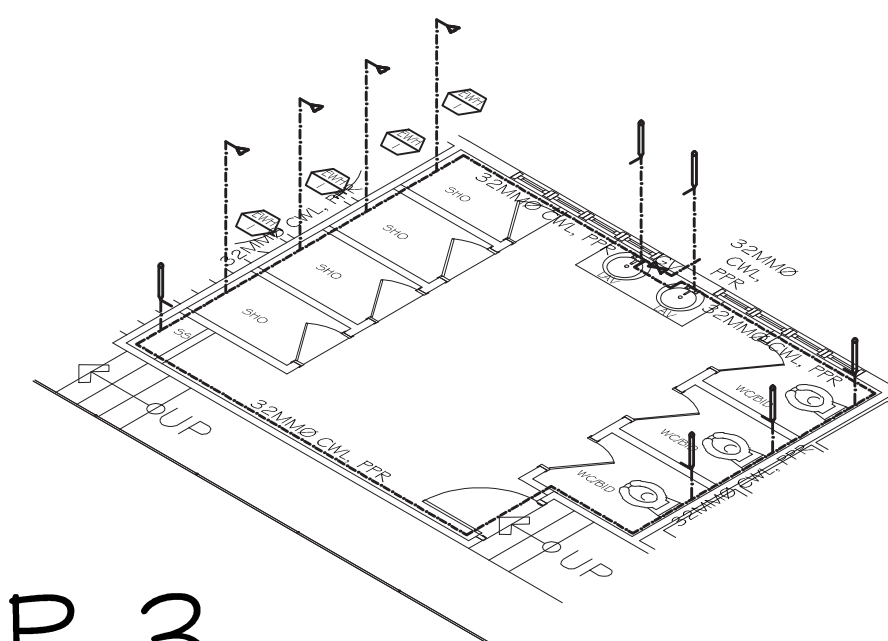


SCALE 1:75MTRS



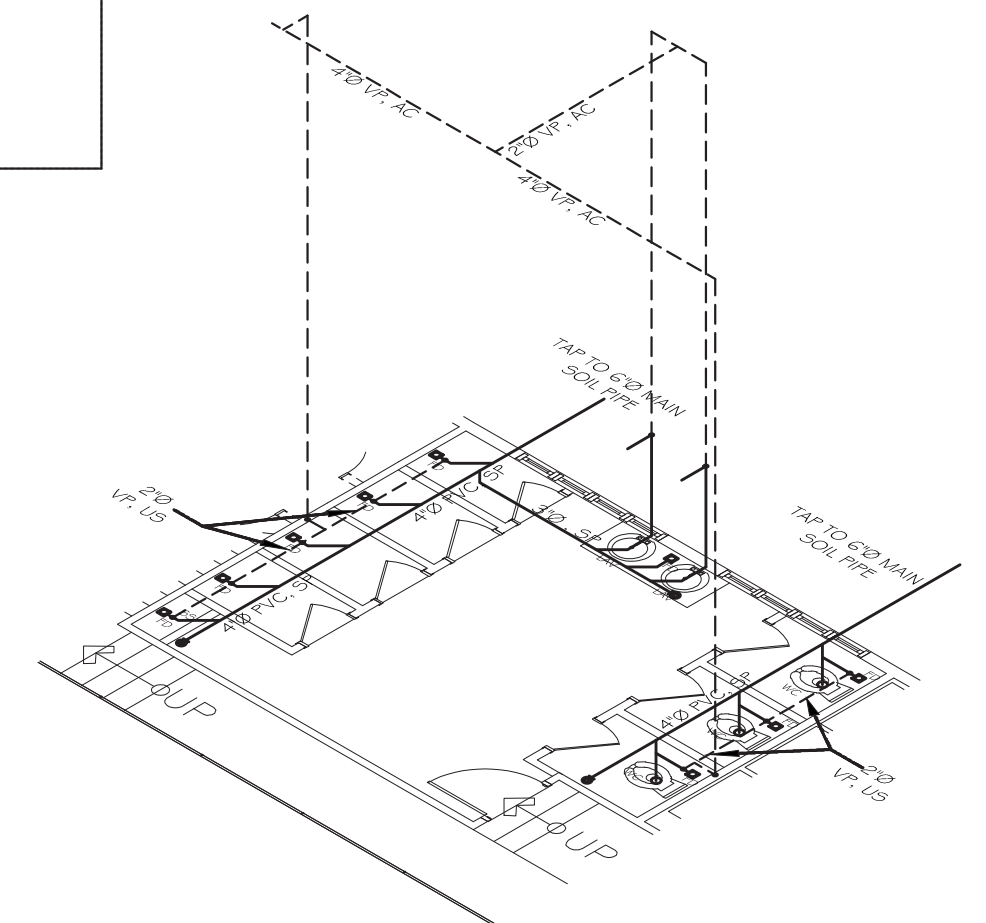
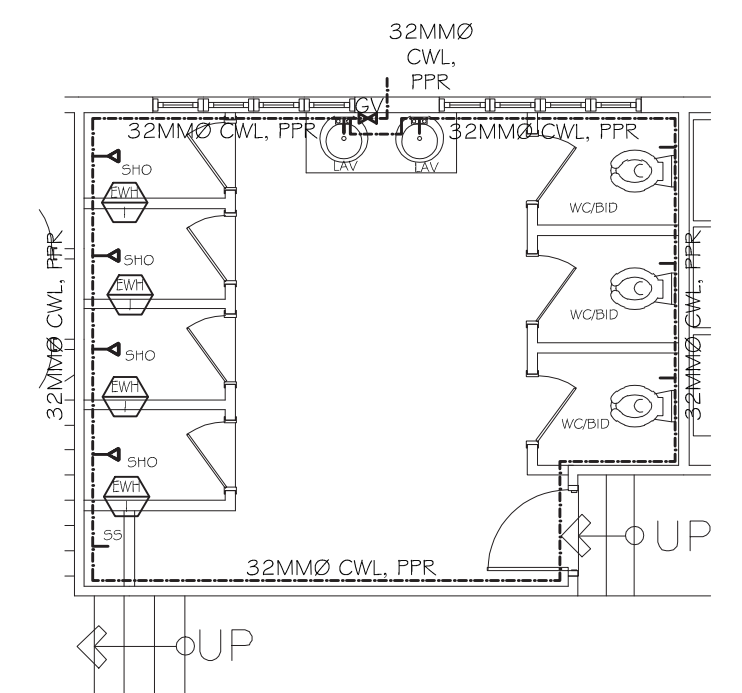
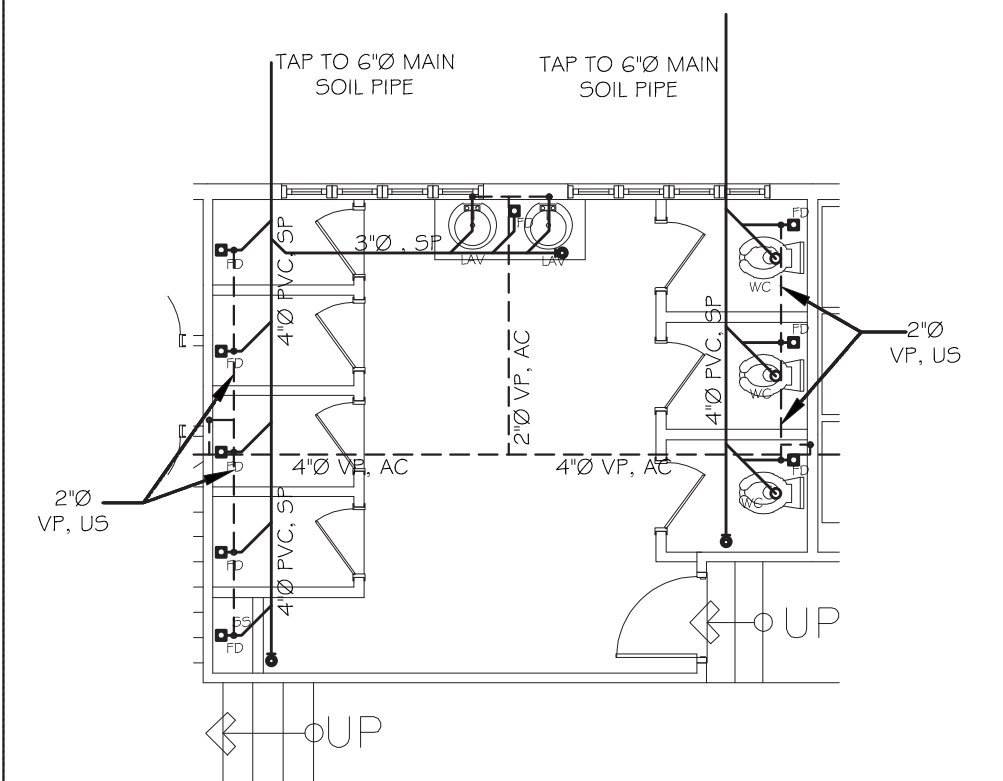
BLOW-UP 2

SCALE 1:75MTRS



BLOW-UP 3

SCALE 1:75MTRS



REHABILITATION OF THE RIZAL MEMORIAL BADMINTON HALL

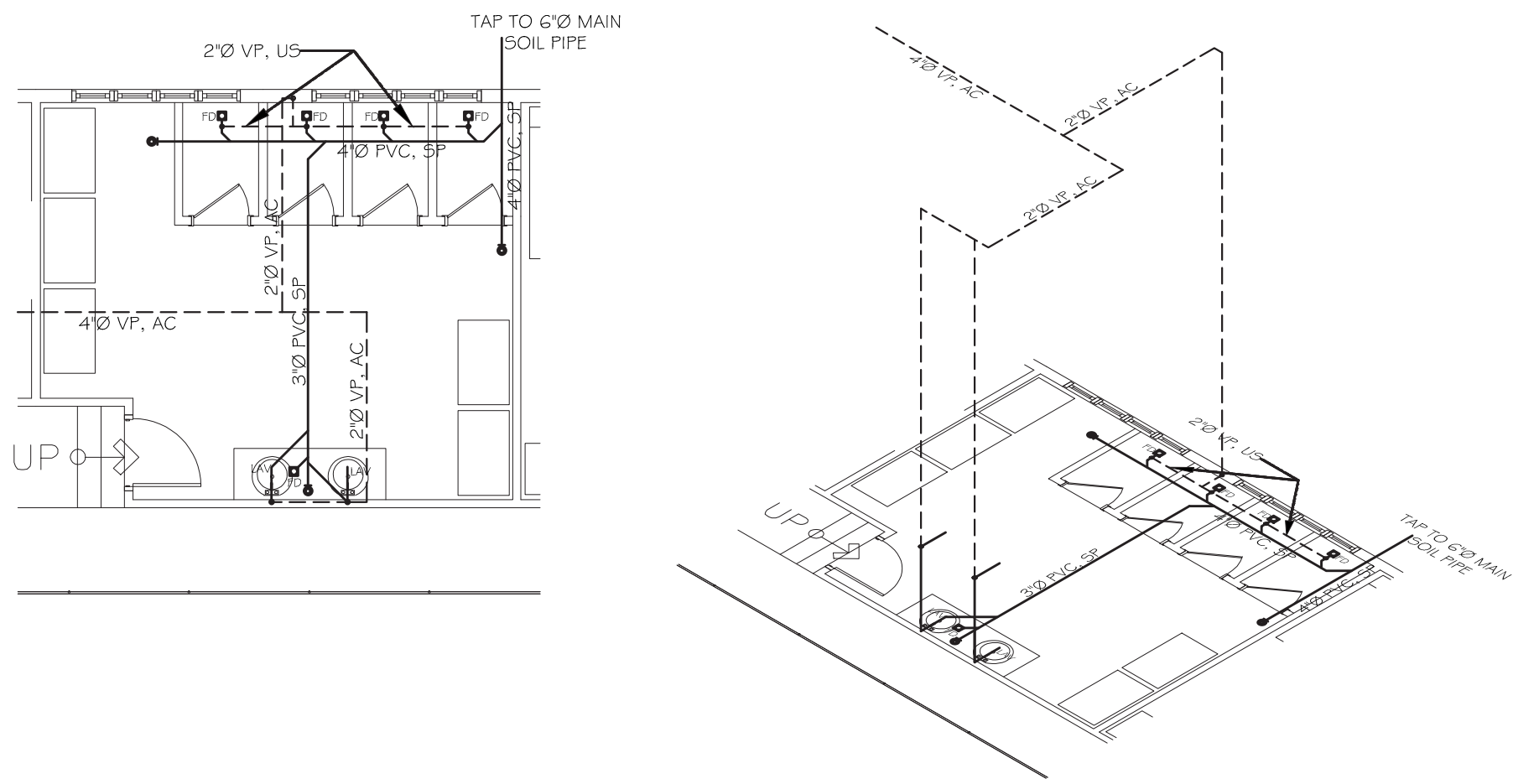
ENGR. PEDRO I. PINEDA JR.

DIR. MERLITA R. IBAY

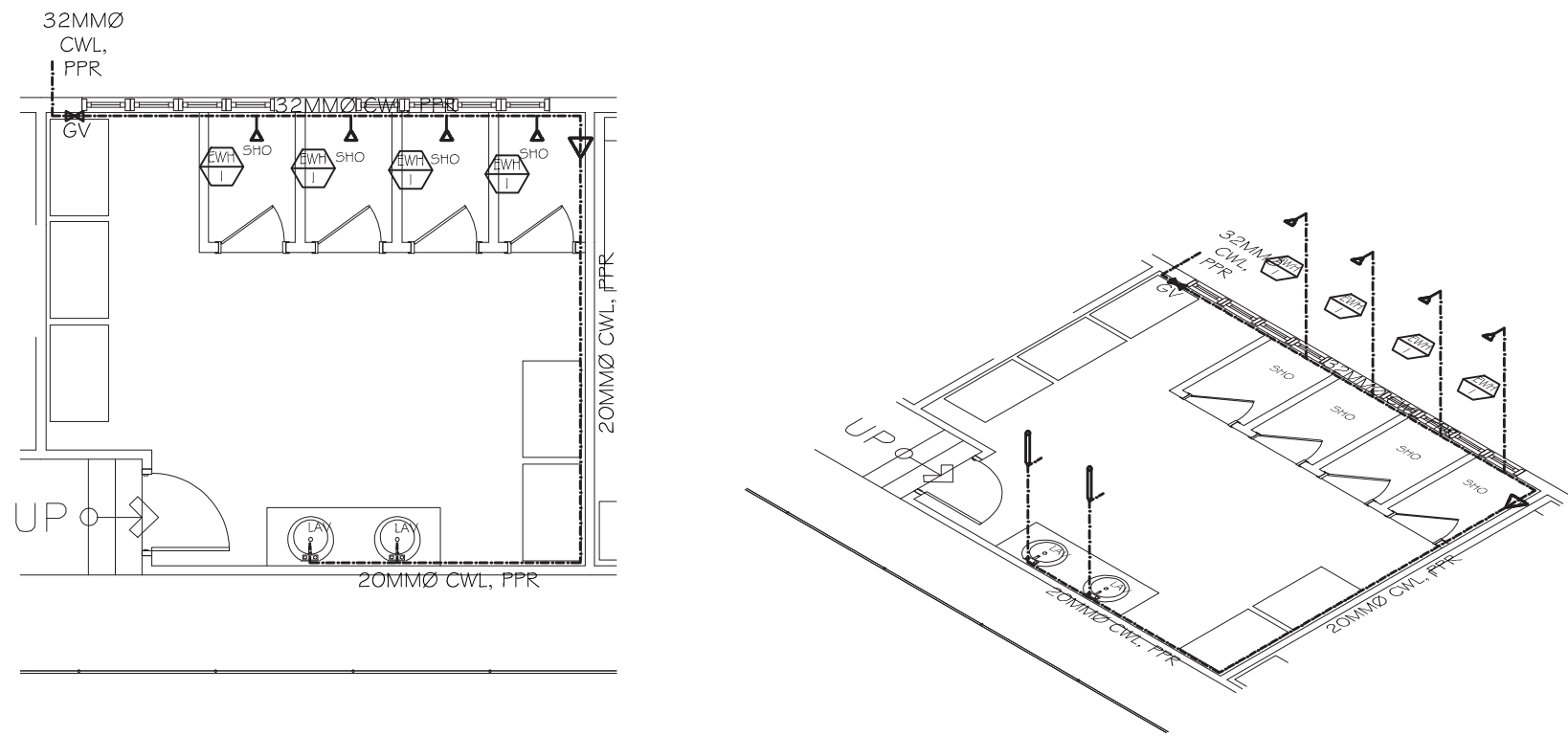
HON. WILLIAM I. RAMIREZ

DATE:

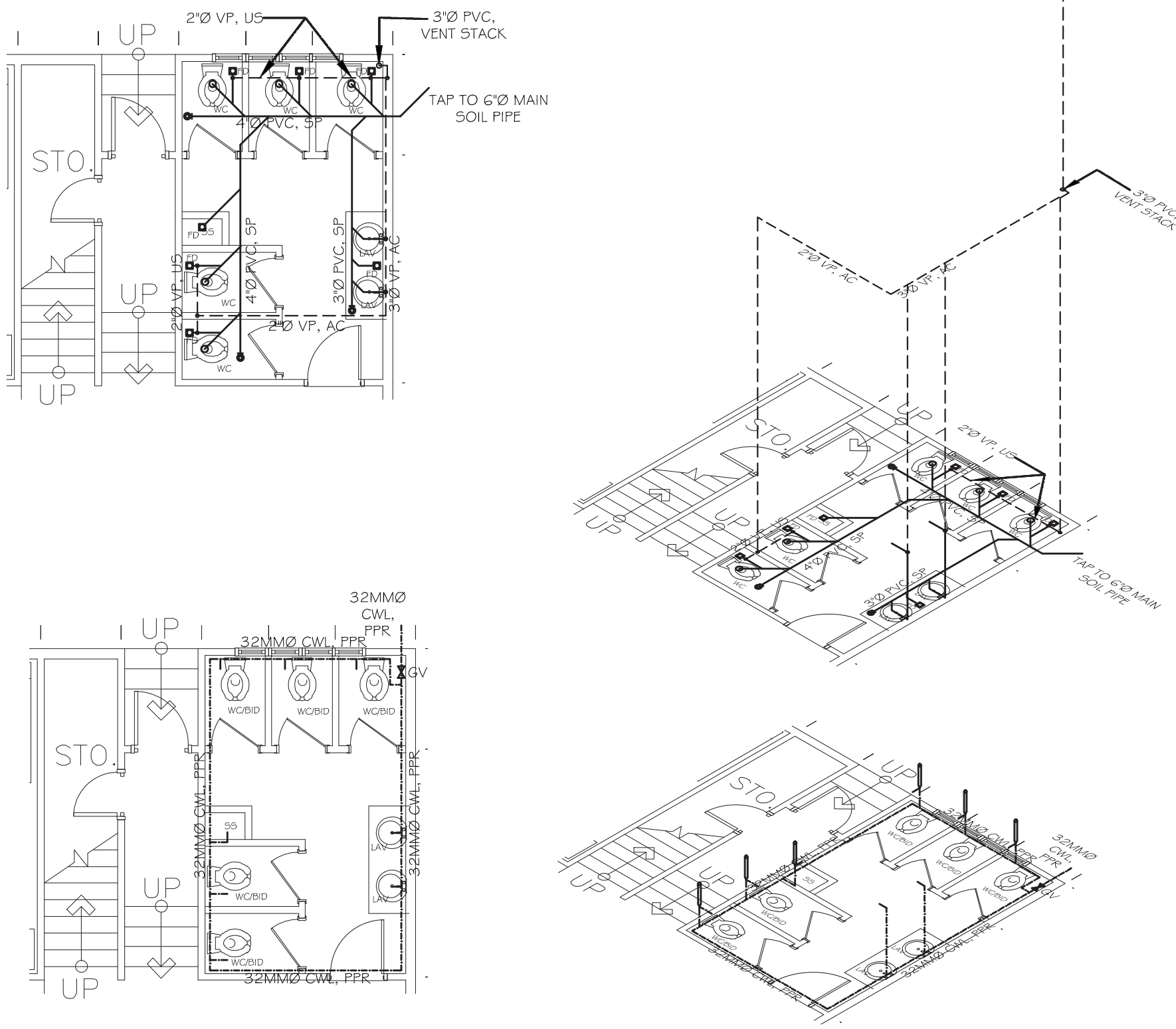
P-04



**NOTE: ALL PIPES SHOWN ARE IN NOMINAL PIPE DIAMETER/INTERNAL DIAMETER

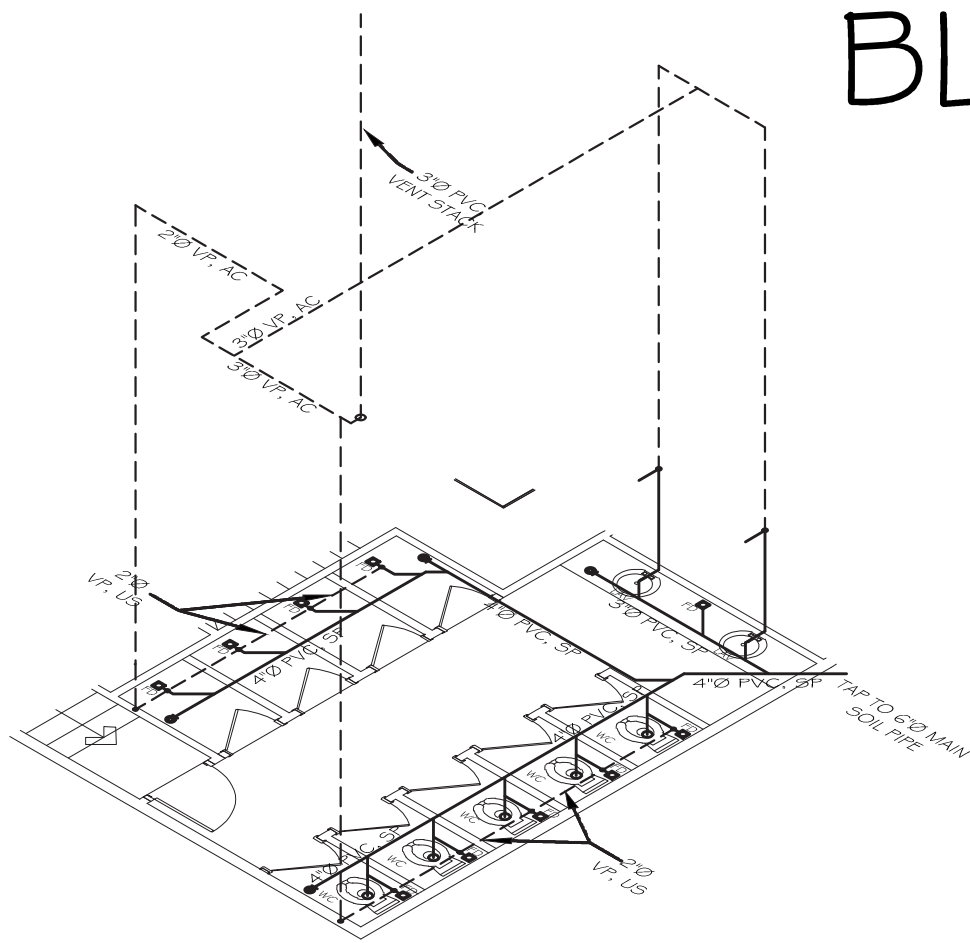
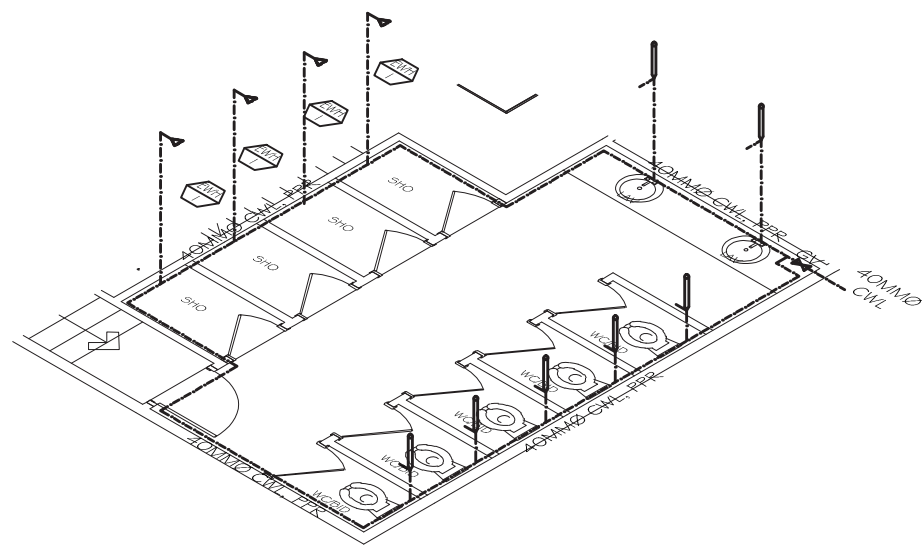


BLOW-UP 4
SCALE 1:75MTRS



BLOW-UP 5
SCALE 1:75MTRS

**NOTE: ALL PIPES SHOWN ARE IN NOMINAL PIPE DIAMETER/INTERNAL DIAMETER



BLOW-UP 6
SCALE 1:75MTRS



PHILIPPINE SPORTS COMMISSION
RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA

PROJECT TITLE:
**REHABILITATION OF THE
RIZAL MEMORIAL BADMINTON HALL**
LOCATION: RIZAL MEMORIAL SPORTS COMPLEX, P. OCAMPO SR. ST, MALATE, MANILA

SUBMITTED BY:
ENGR. PEDRO I. PINEDA JR.
HEAD, ENGINEERING SECTION

RECOMMENDING APPROVAL:
DIR. MERLITA R. IBAY
OIC, EXECUTIVE DIRECTOR

APPROVED BY:
HON. WILLIAM I. RAMIREZ
CHAIRMAN

SHEET CONTENTS:
BLOW UP PLANS

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

SHEET NUMBER
P-05

