



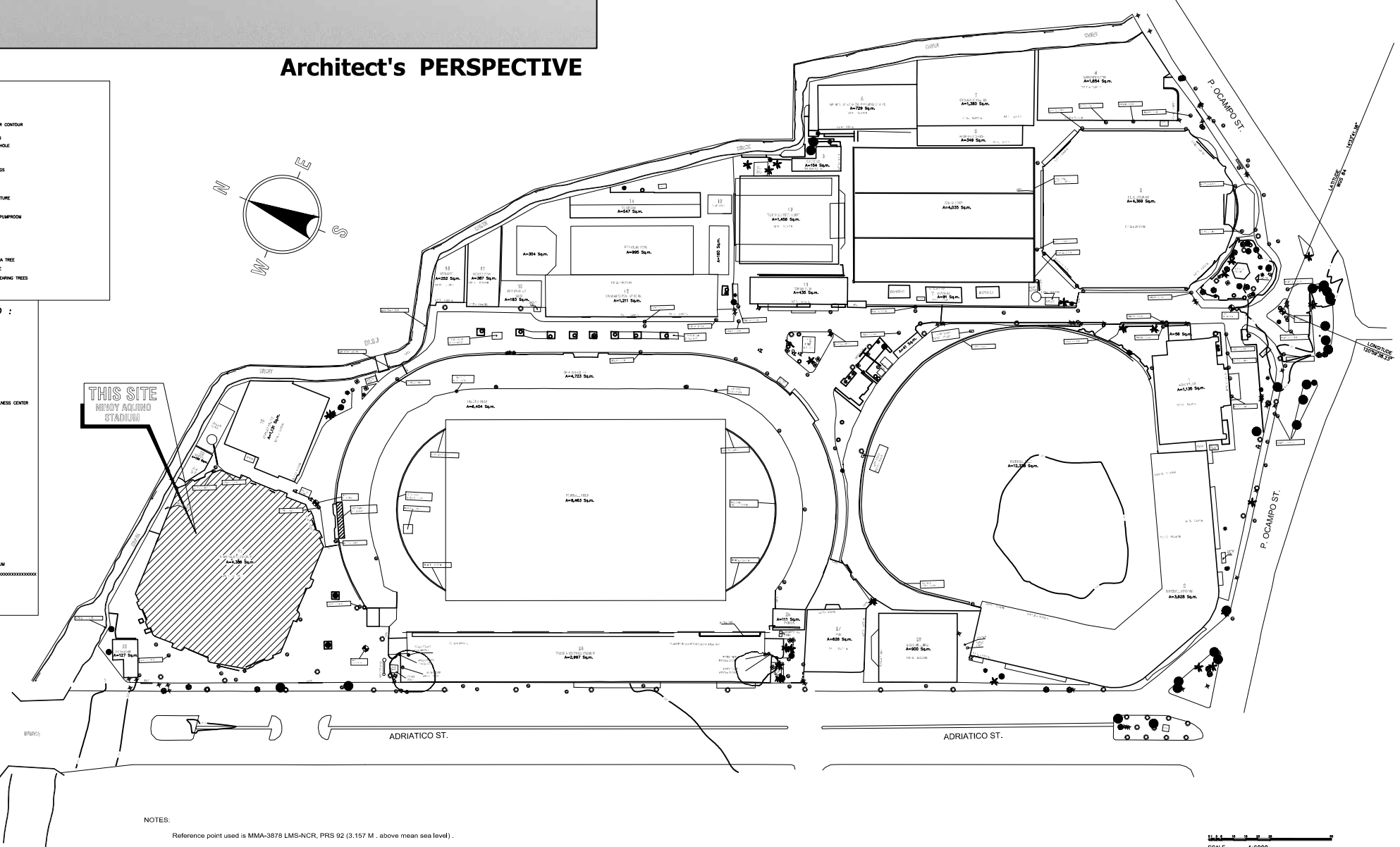
Architect's PERSPECTIVE

LEGEND :

- CHS FENCE
- STEEL ROOF
- MAJOR & MINOR CONTOUR
- SPOT ELEVATION
- ORAINAGE, MANHOLE
- ELECTRIC POST
- LAMP POST
- EXISTING BUILDING
- GATEWAY
- FIRE HYDRANT
- EXISTING STRUCTURE
- PLAYERS
- POWER ROOM, PUMPROOM
- COCONUT TREE
- PALM TREE
- MANGO TREE
- MORNA & ADONA TREE
- BANQUET TREE
- OTHER FRUIT BEARING TREES
- UNKNOWN TREE

BUILDING LEGEND :

- ADMIN BUILDING
- INDOOR STADIUM
- ROOF STADIUM
- INDOOR STADIUM
- GYMNASIUM CENTER
- PROPERTY OFFICE
- CABINETS
- RESTROOMS & PW WELLNESS CENTER
- PW OFFICE
- TENNIS COVERED COURT
- TENNIS CLUB
- PUMP STATION
- PUMP ROOM
- BLEACHER
- INDOOR POOL STADIUM
- DRY TRAINING AREA
- BOILING STN
- OWNERS
- OWNERS CENTER
- LAUNDRY
- INDOOR STADIUM
- POWER ROOM
- POWER ROOM
- TRACK & FOOTBALL STADIUM
- GENERATOR SET
- PWB
- POWER/ WASHU



NOTES:
Reference point used is MMA-3878 LMS-NCR, PRS 92 (3.157 M. above mean sea level) .

DRAWING INDEX

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS

OFFICE OF THE BUILDING OFFICIAL

DISTRICT / CITY / MUNICIPALITY

LAND USE AND ZONING

LINE AND GRADE

ARCHITECTURAL

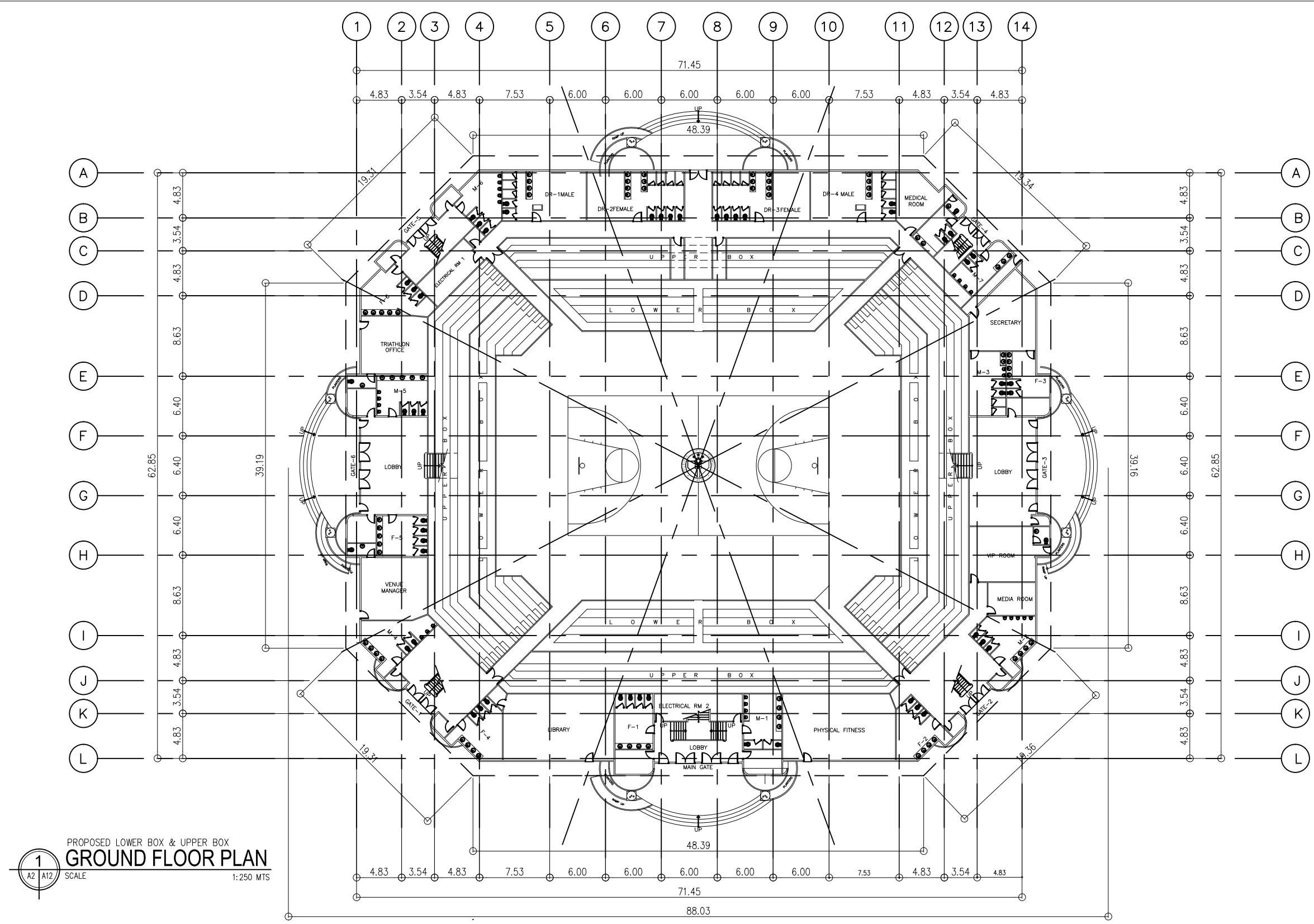
STRUCTURAL

SANITARY

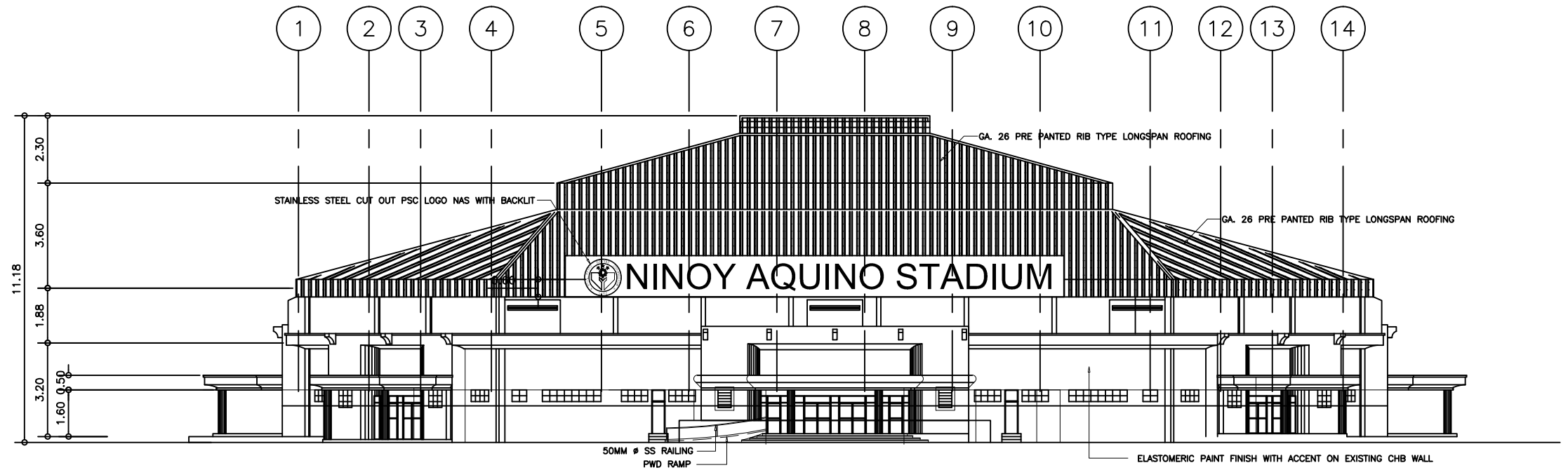
ELECTRICAL

MECHANICAL

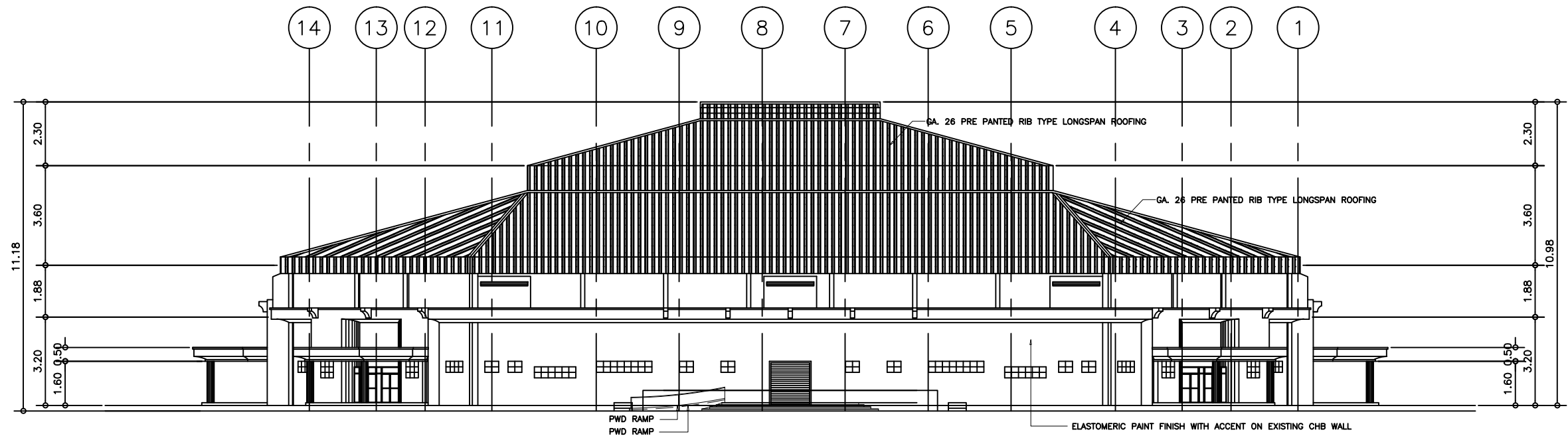
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 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINOY AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	ARCHITECT'S PERSPECTIVE SITE DEVELOPMENT PLAN	A 112
		CHECK BY:					
		DATE:					



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		CHECK BY:					
		DATE:					

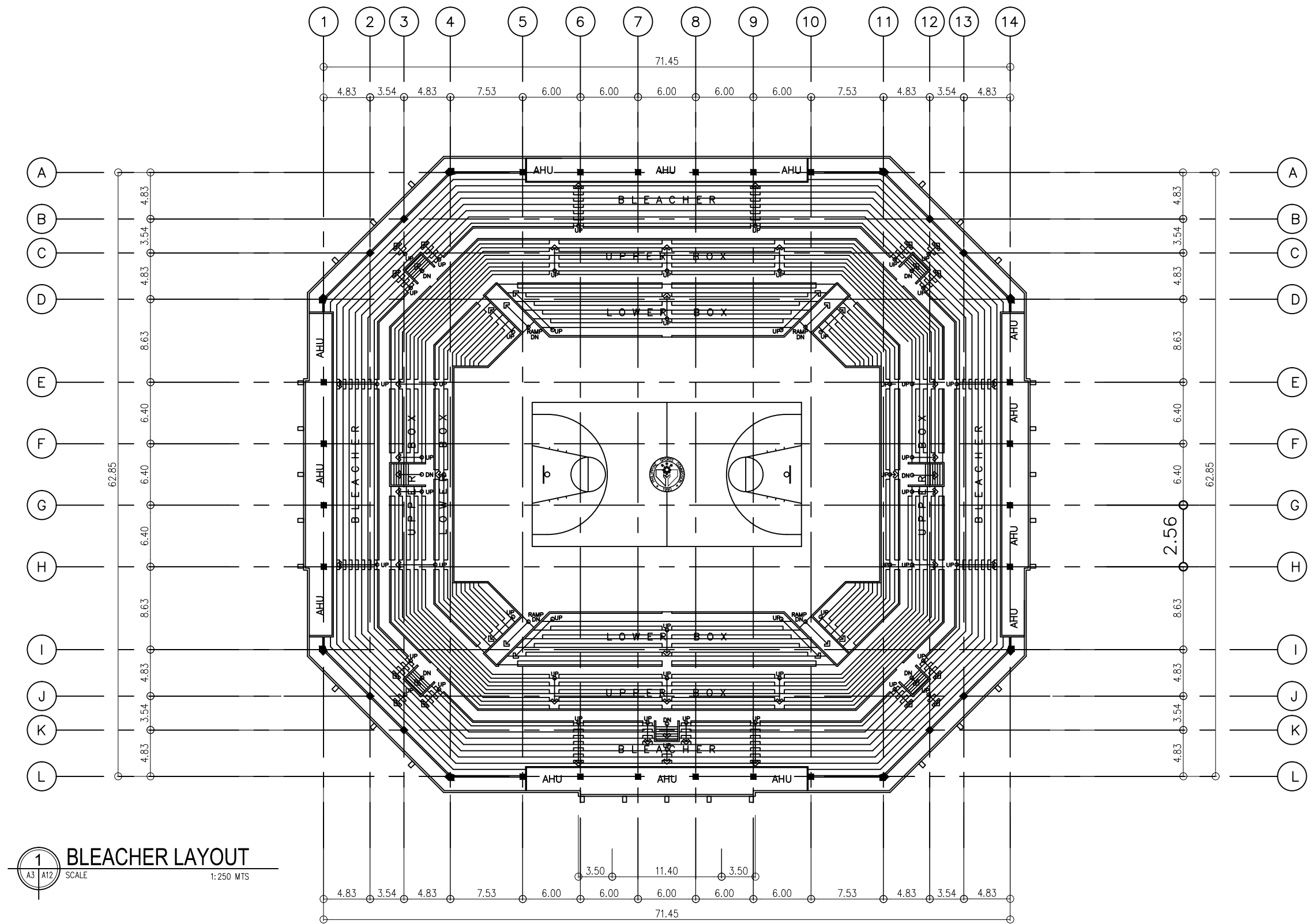


1 FRONT ELEVATION
SCALE 1:200 MTS



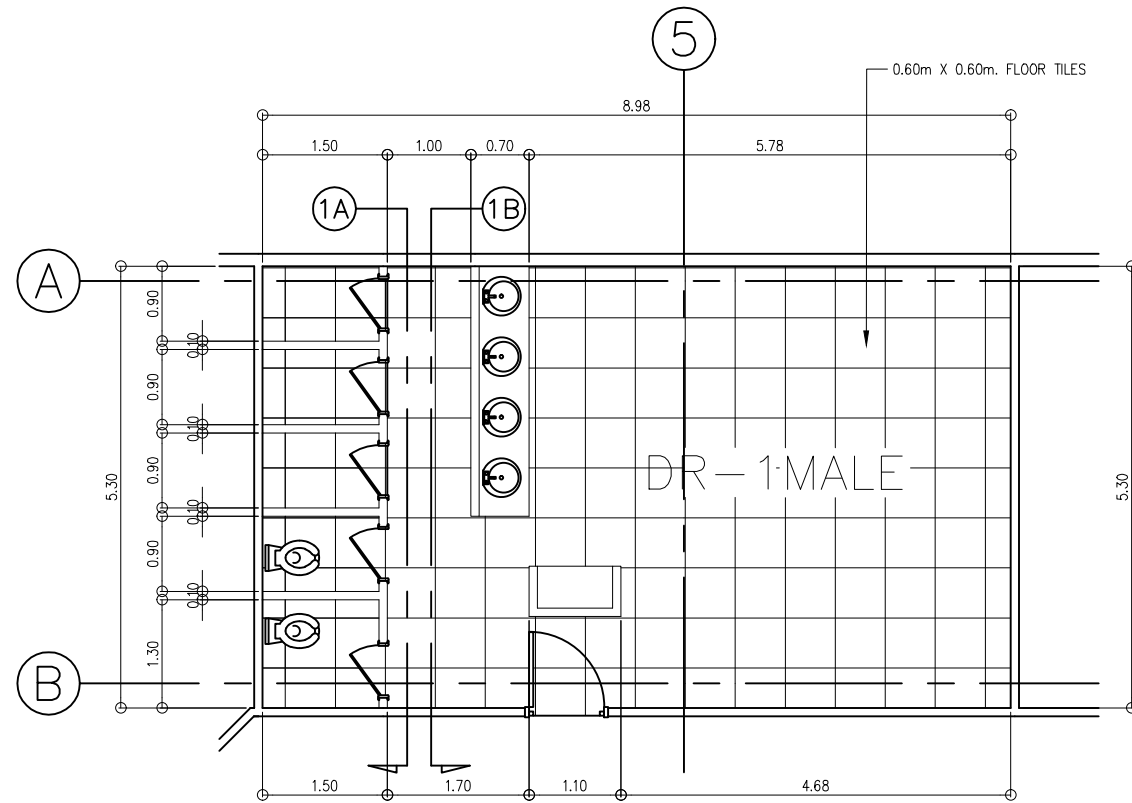
2 REAR ELEVATION
SCALE 1:200 MTS

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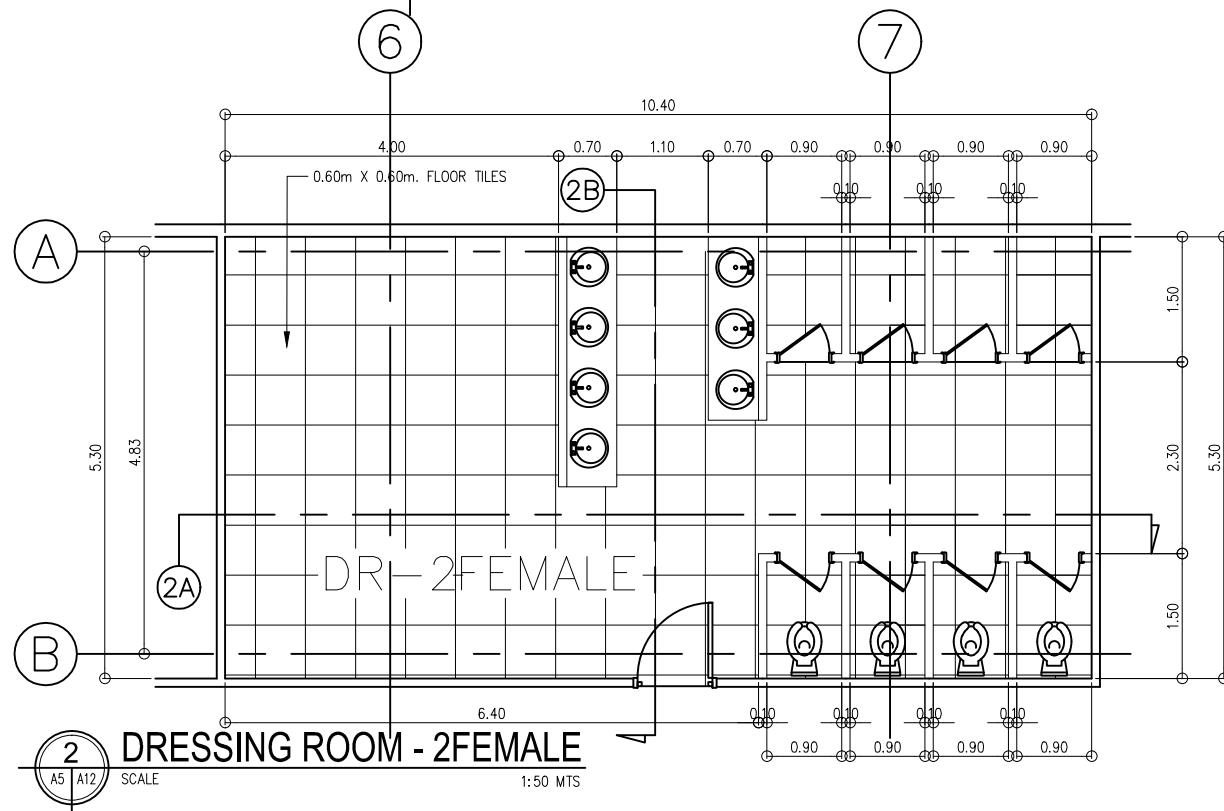


1 BLEACHER LAYOUT
A3 A12 SCALE 1:250 MTS

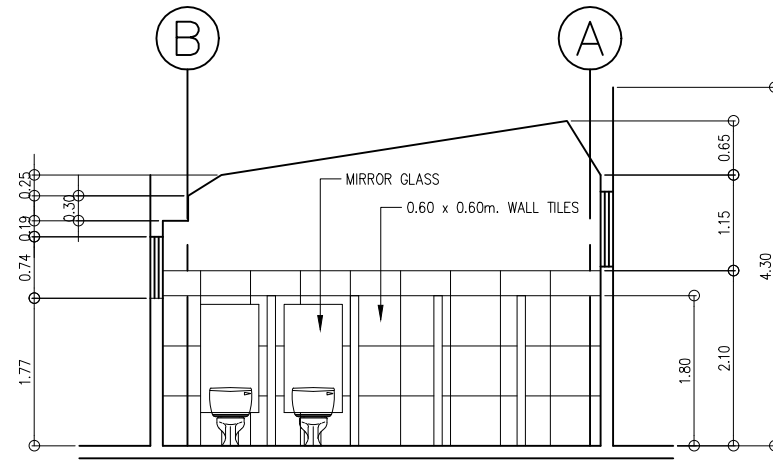
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		CHECK BY:					
		DATE:					



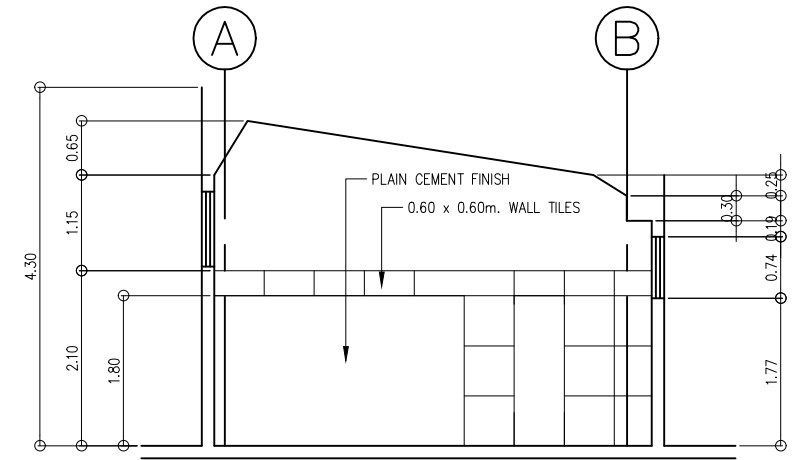
1 DRESSING ROOM - 1MALE
A5 A12 SCALE 1:50 MTS



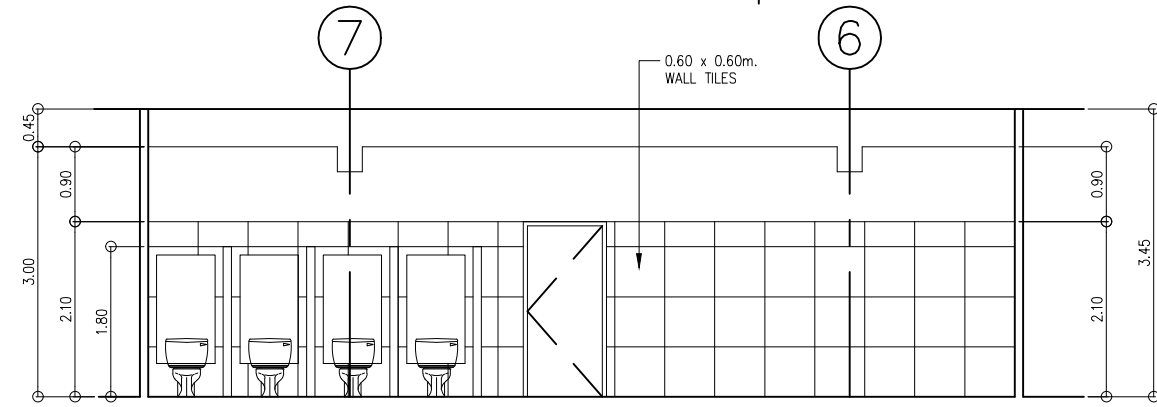
2 DRESSING ROOM - 2FEMALE
A5 A12 SCALE 1:50 MTS



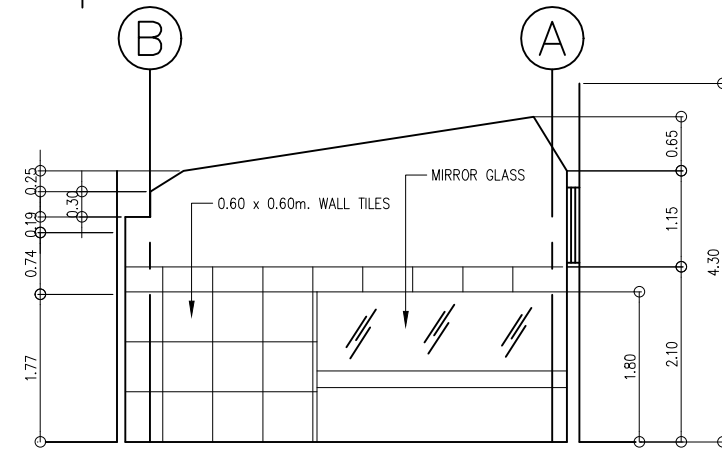
1A DR - 1MALE SECTION THRU-1A
A5 A12 SCALE 1:50 MTS



1B DR - 1MALE SECTION THRU-1B
A5 A12 SCALE 1:50 MTS

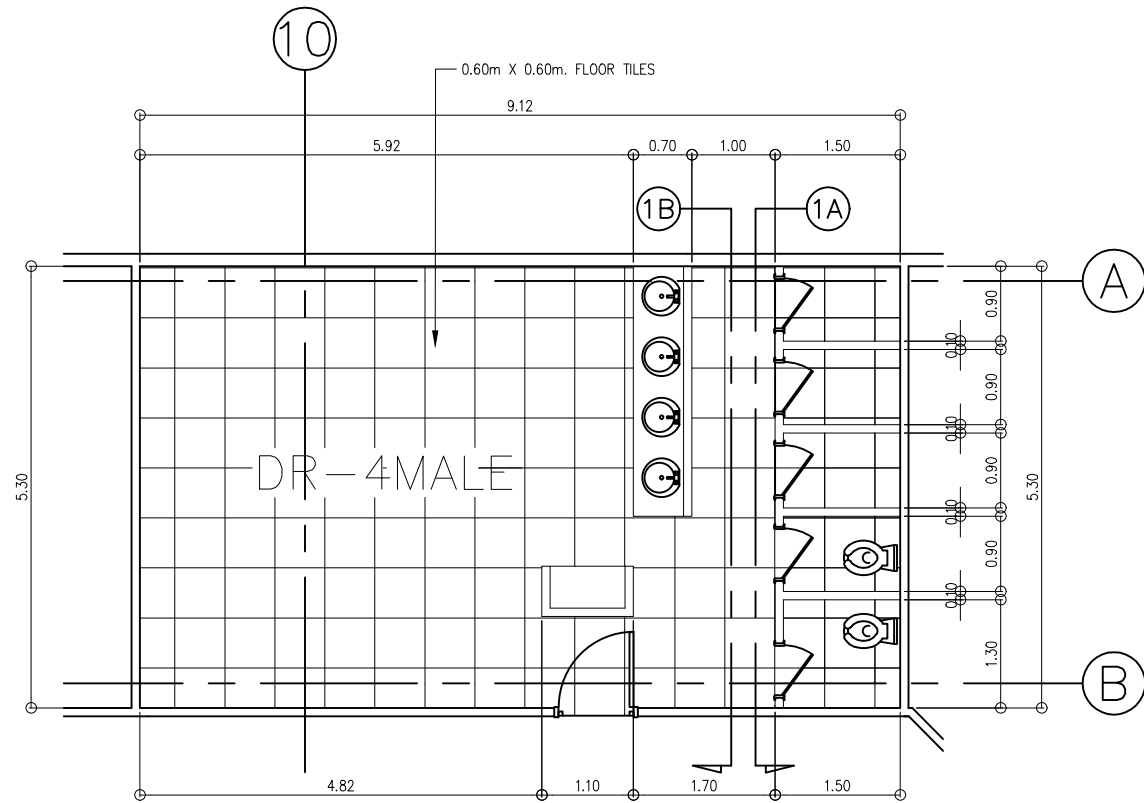


2A DR - 2FEMALE SECTION THRU-2A
A5 A12 SCALE 1:50 MTS

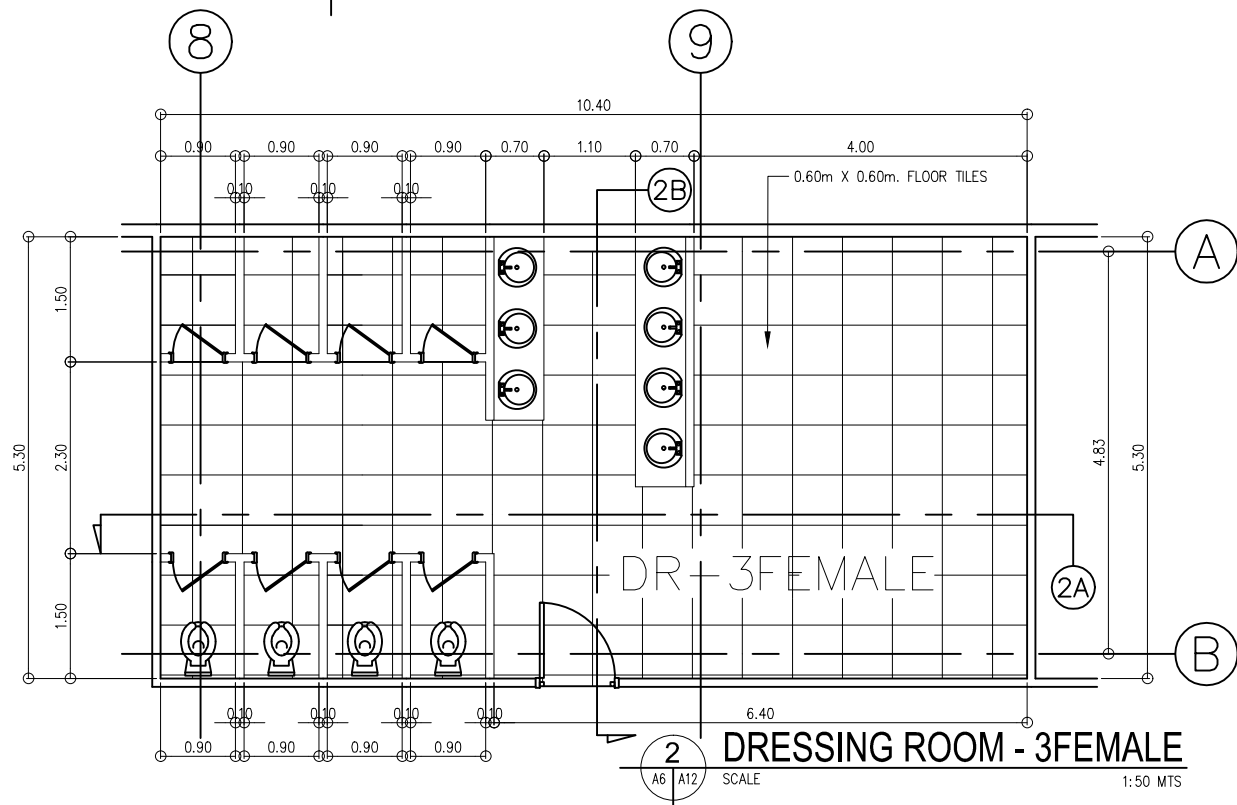


2B DR - 2FEMALE SECTION THRU-2B
A5 A12 SCALE 1:50 MTS

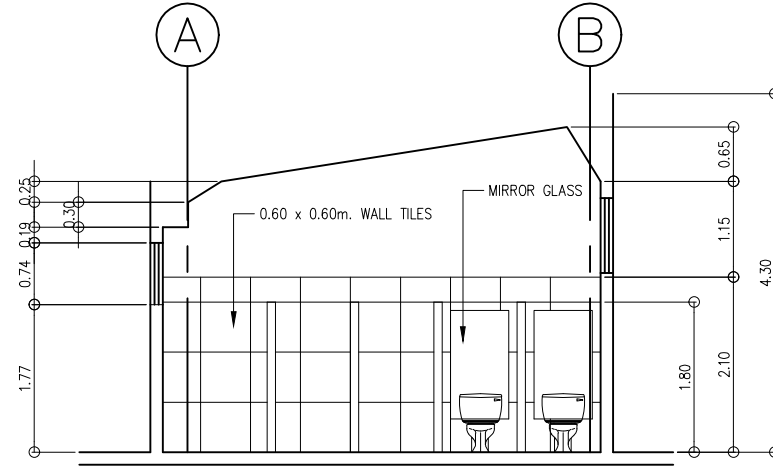
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		CHECK BY:					
		DATE:					



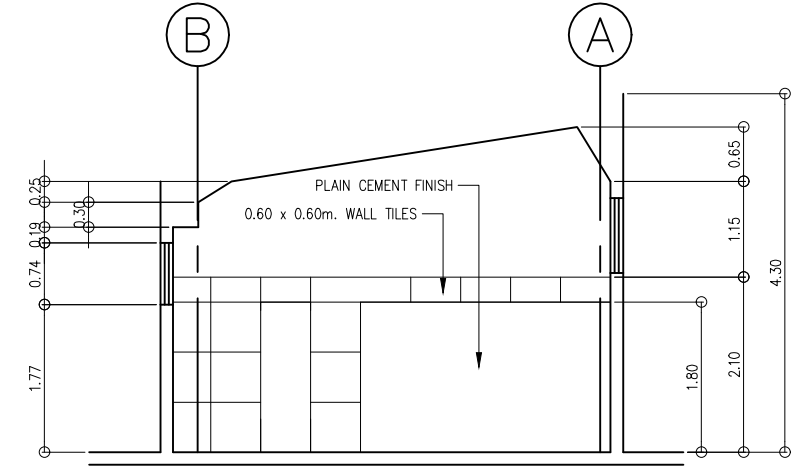
1 DRESSING ROOM - 4MALE
SCALE 1:50 MTS



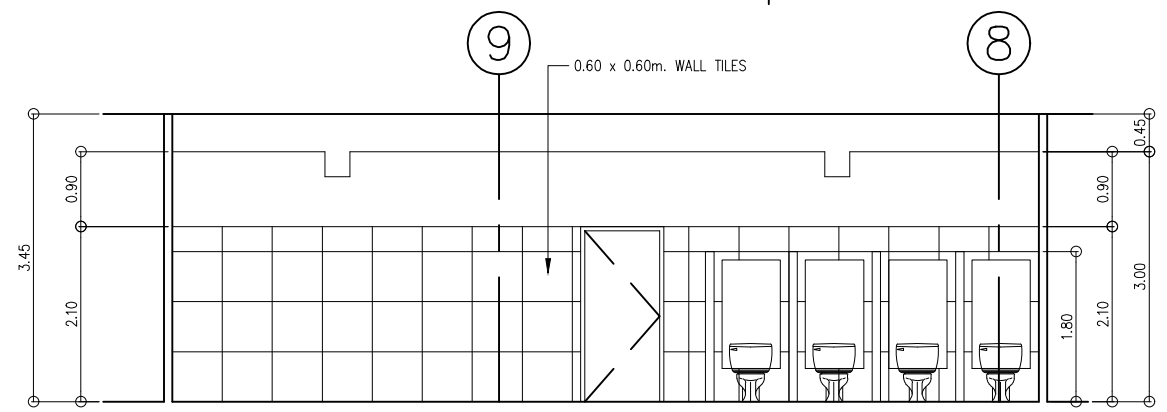
2 DRESSING ROOM - 3FEMALE
SCALE 1:50 MTS



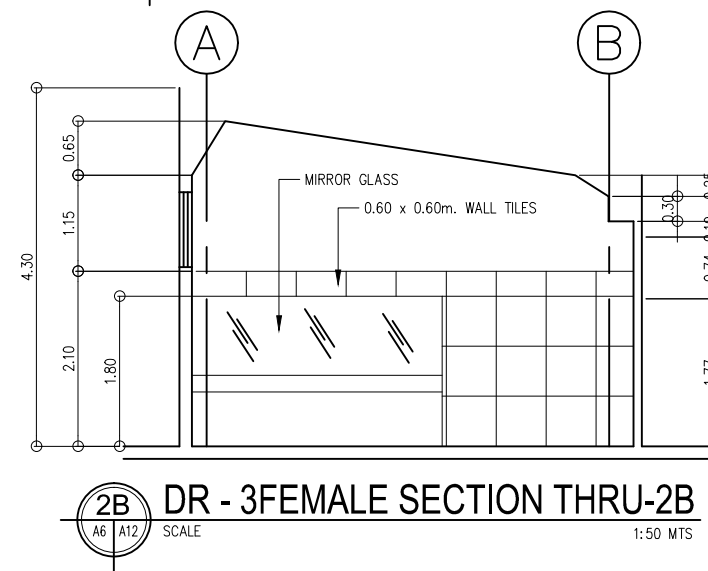
1A DR - 4MALE SECTION THRU-1A
SCALE 1:50 MTS



1B DR - 4MALE SECTION THRU-1B
SCALE 1:50 MTS

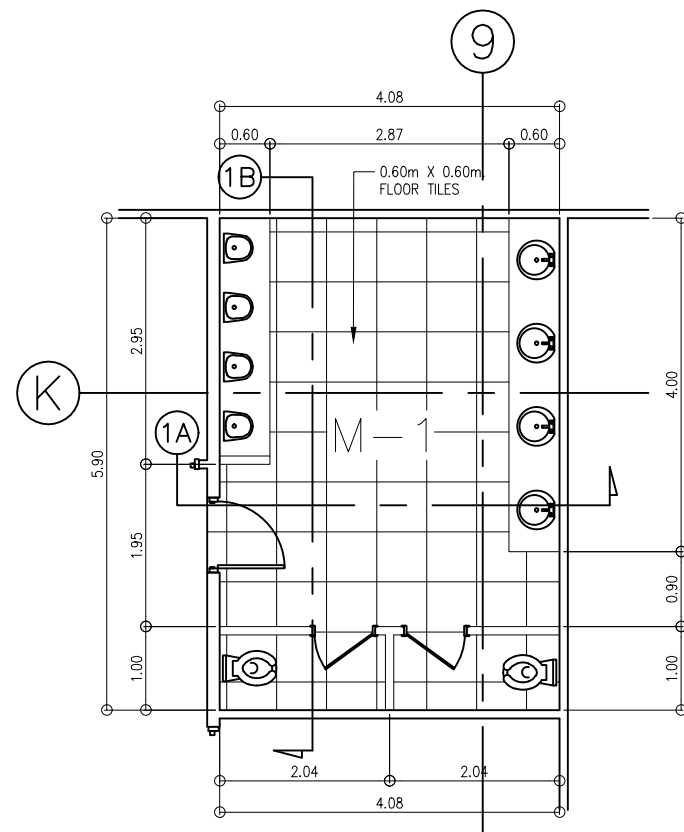


2A DR - 3FEMALE SECTION THRU-2A
SCALE 1:50 MTS

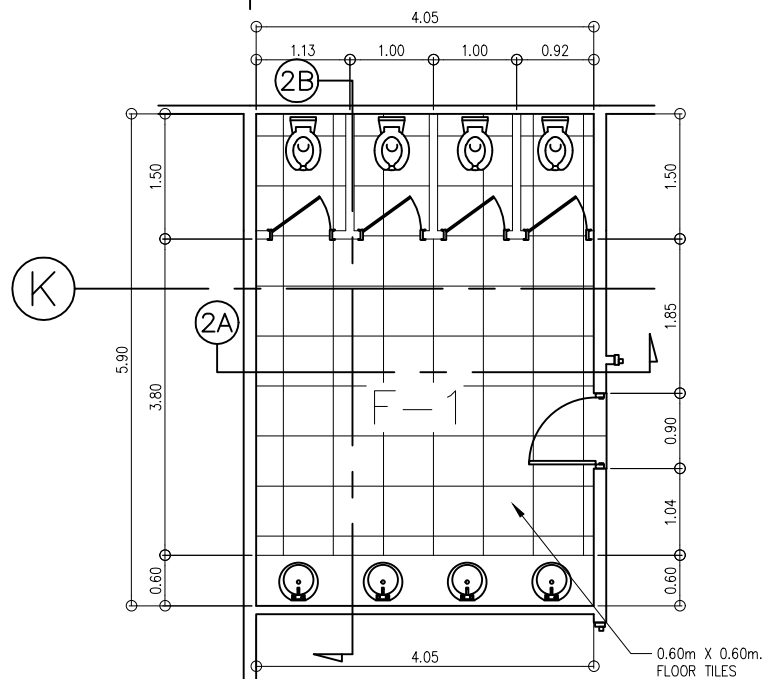


2B DR - 3FEMALE SECTION THRU-2B
SCALE 1:50 MTS

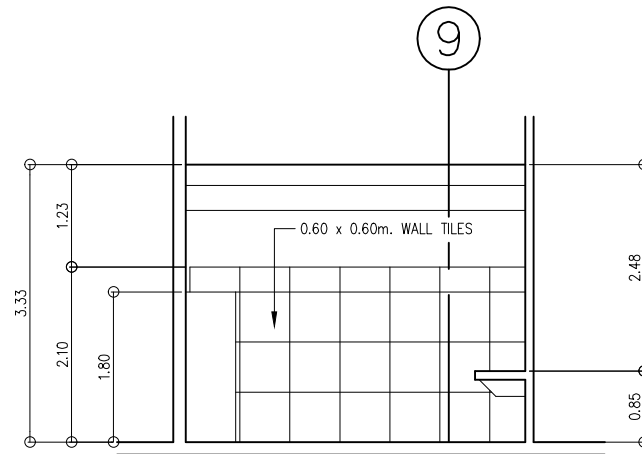
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		CHECK BY:					
		DATE:					



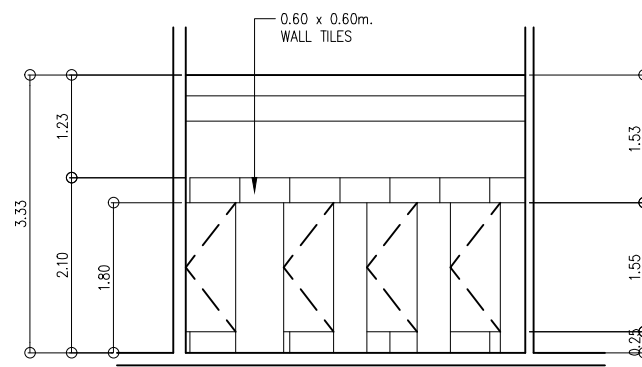
1 FLOOR PLAN OF M-1
SCALE 1:50 MTS



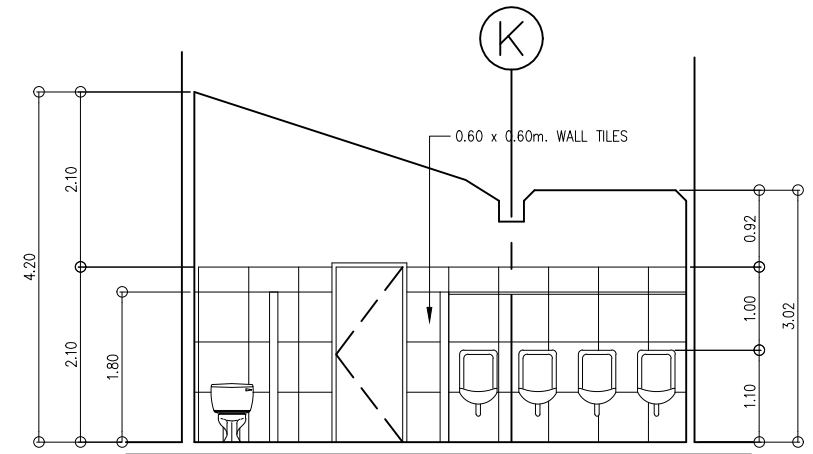
2 FLOOR PLAN OF F-1
SCALE 1:50 MTS



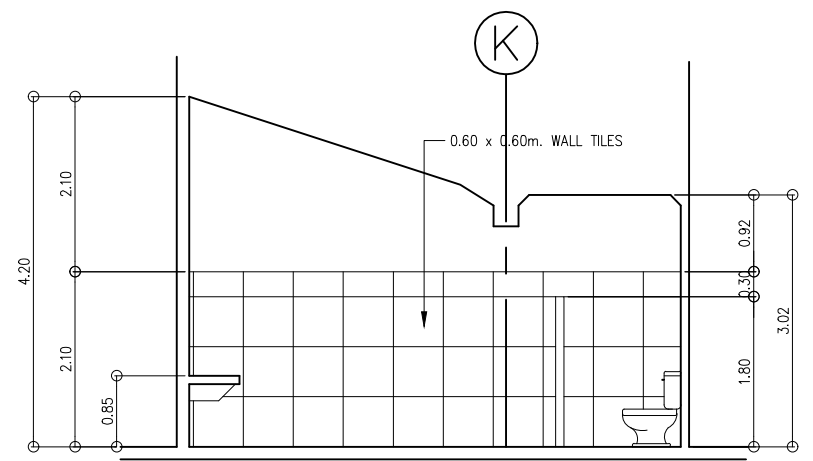
M-1 TOILET SECTION THRU-1A
SCALE 1:50 MTS



F-1 TOILET SECTION THRU-2A
SCALE 1:50 MTS

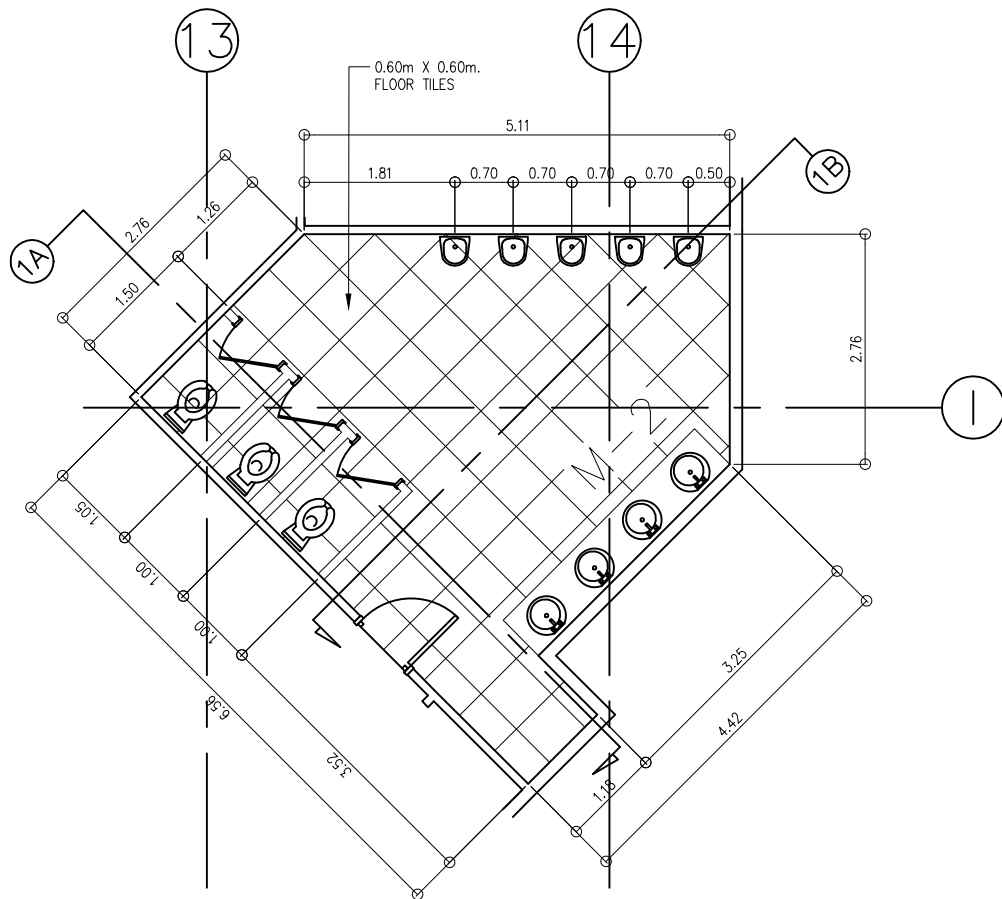


M-1 TOILET SECTION THRU-2A
SCALE 1:50 MTS

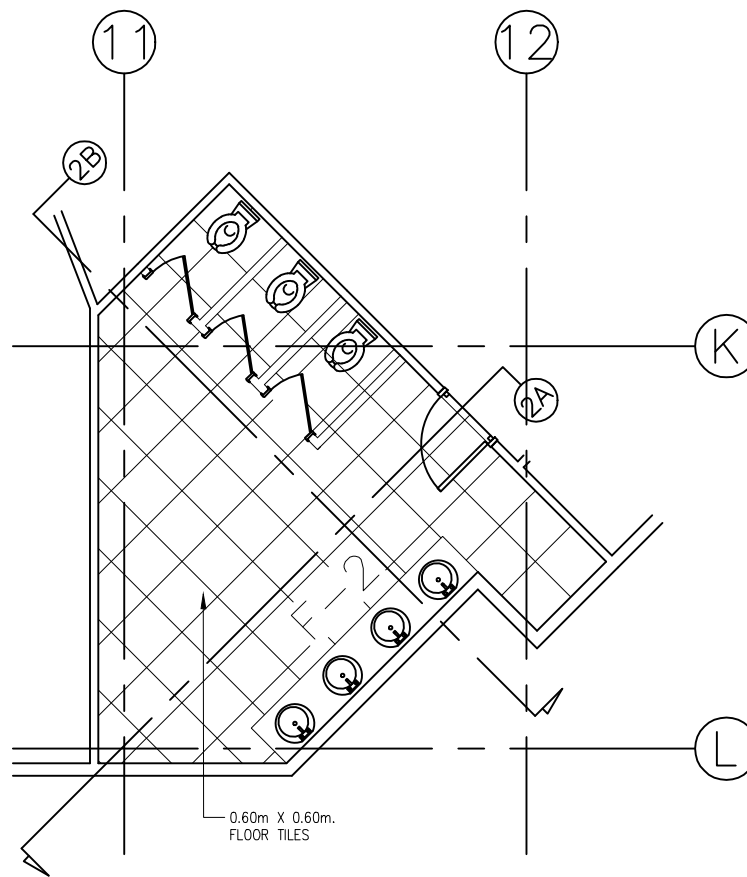


F-1 TOILET SECTION THRU-2B
SCALE 1:50 MTS

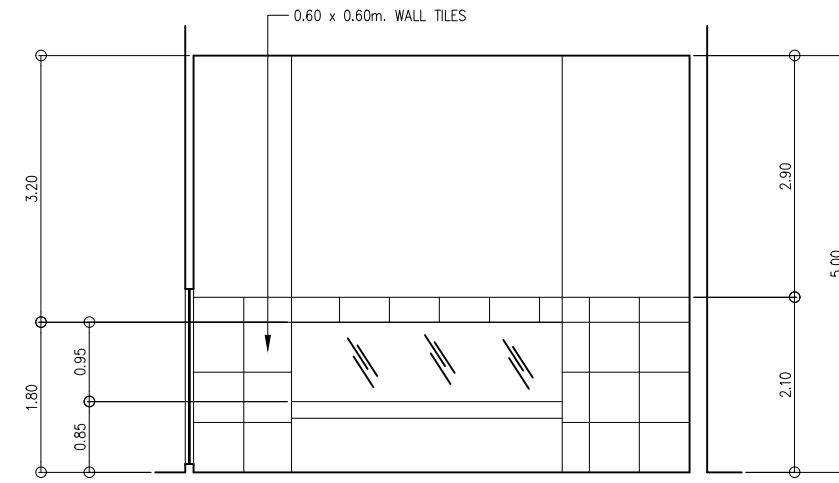
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		CHECK BY:					
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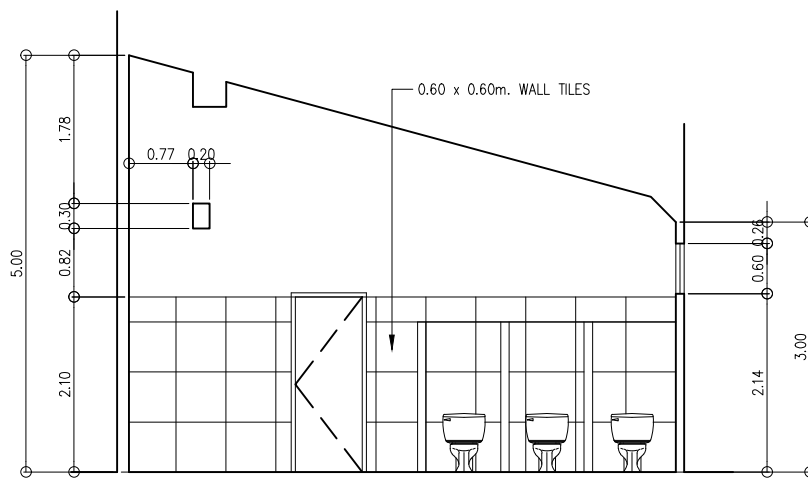
1 FLOOR PLAN OF M-2
SCALE 1:50 MTS



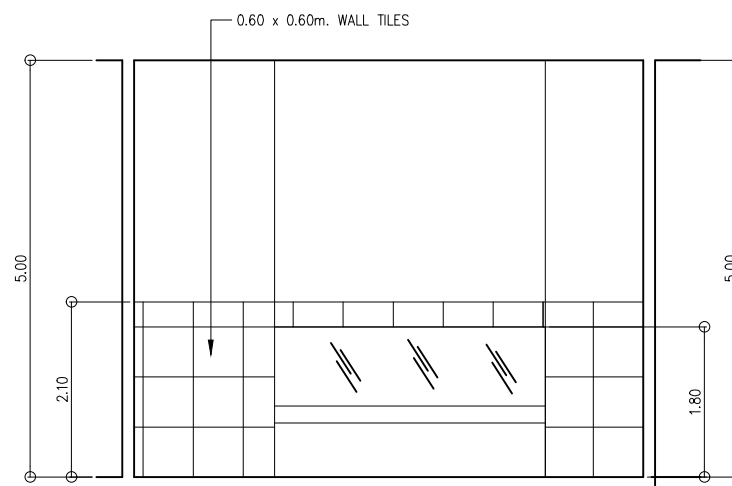
2 FLOOR PLAN OF F-2
SCALE 1:50 MTS



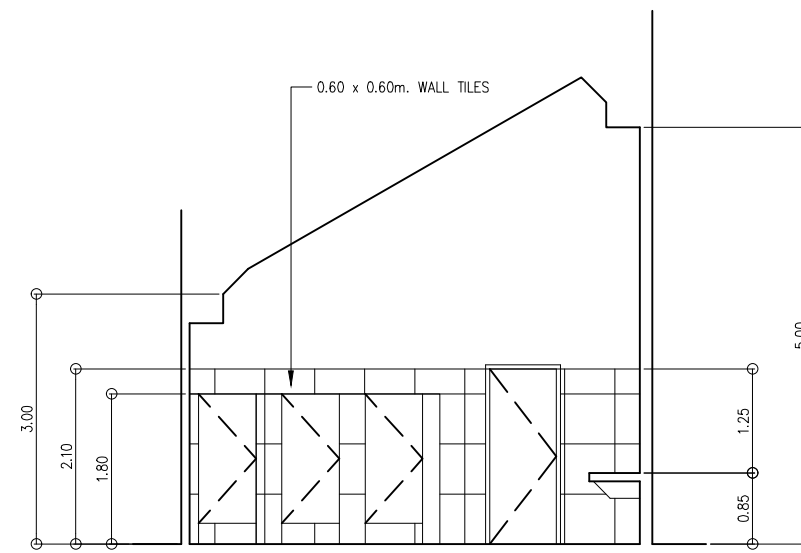
F-2 TOILET SECTION THRU-2A
SCALE 1:50 MTS



M-2 TOILET SECTION THRU-1A
SCALE 1:50 MTS



M-2 TOILET SECTION THRU-1B
SCALE 1:50 MTS

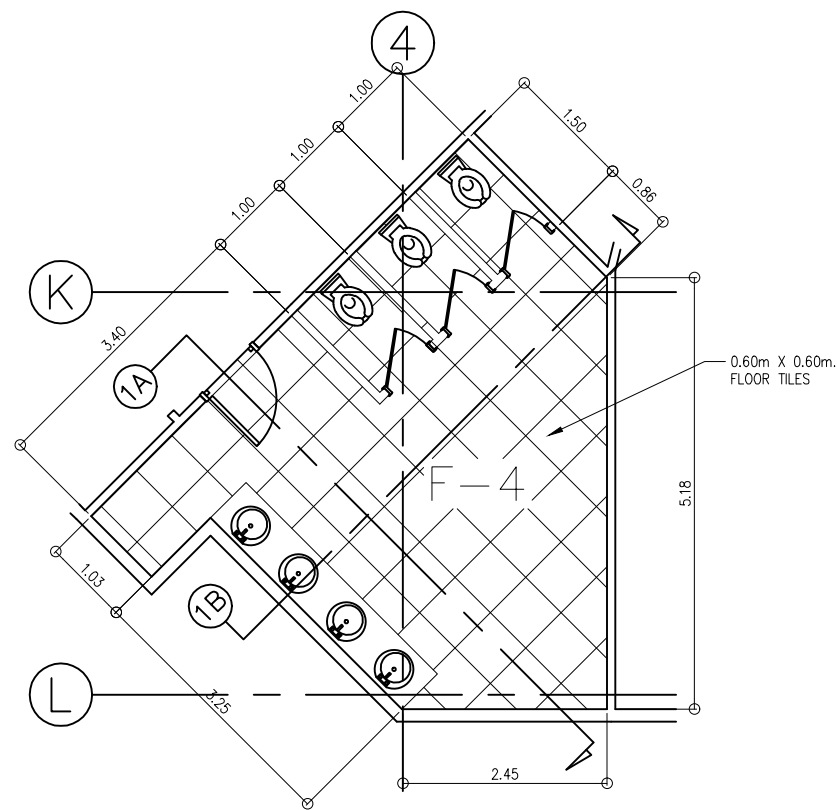


F-2 TOILET SECTION THRU-2A
SCALE 1:50 MTS

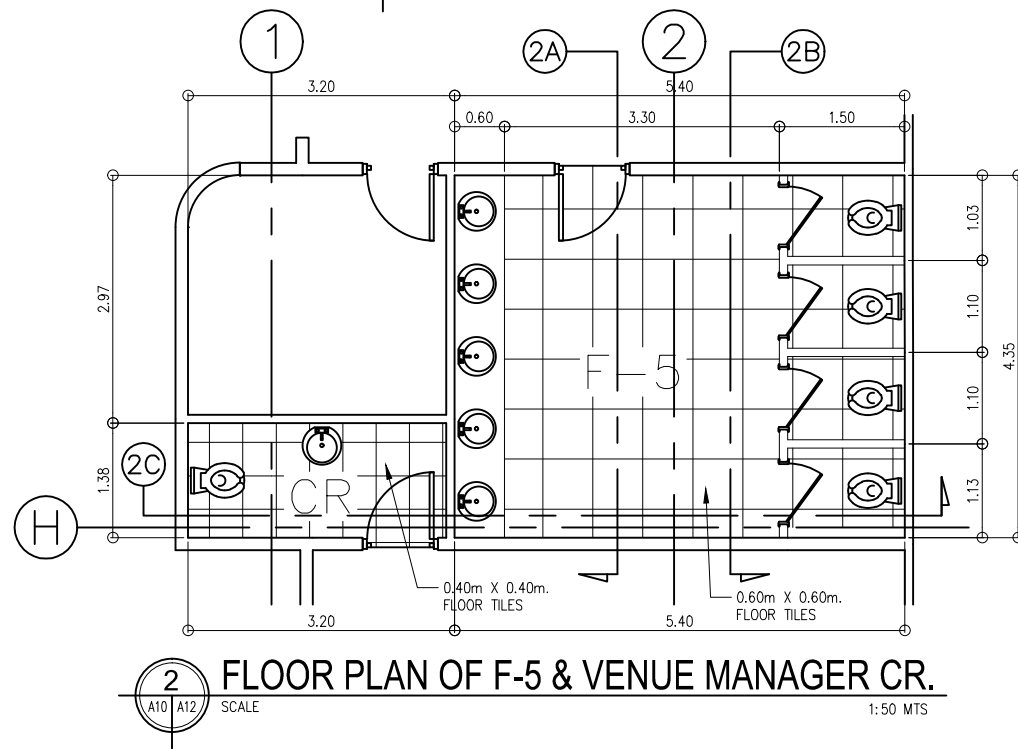
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		CHECK BY:					
		DATE:					



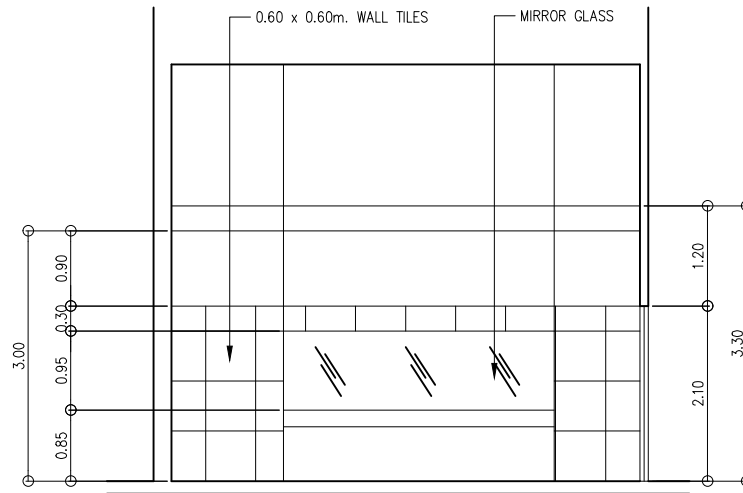
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		CHECK BY:					
		DATE:					



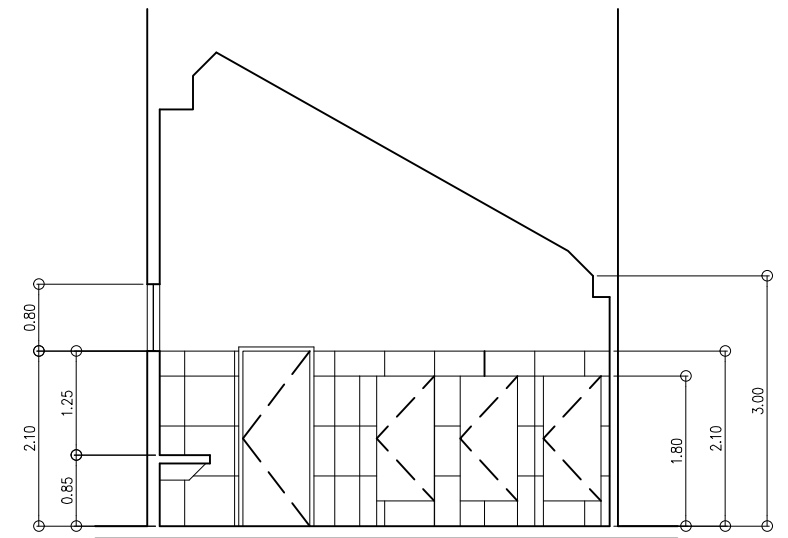
1 FLOOR PLAN OF F-4
SCALE 1:50 MTS



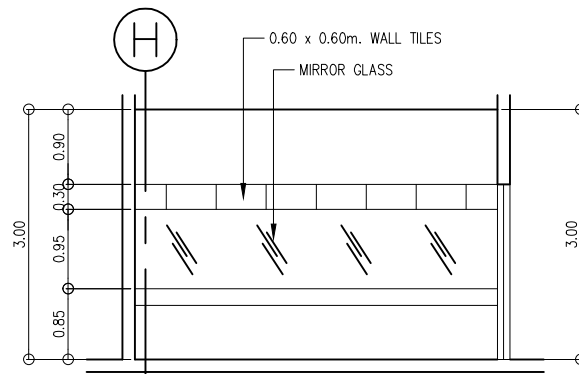
2 FLOOR PLAN OF F-5 & VENUE MANAGER CR.
SCALE 1:50 MTS



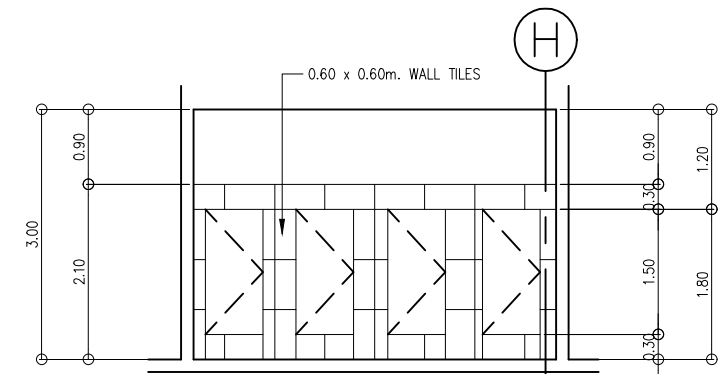
F-4 TOILET SECTION THRU-1A
SCALE 1:50 MTS



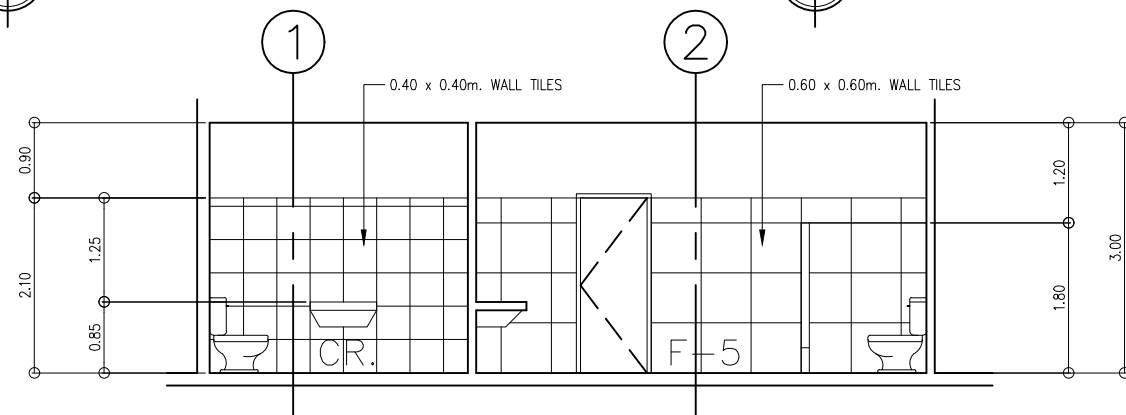
F-4 TOILET SECTION THRU-1B
SCALE 1:50 MTS



F-5 TOILET SECTION THRU-2A
SCALE 1:50 MTS

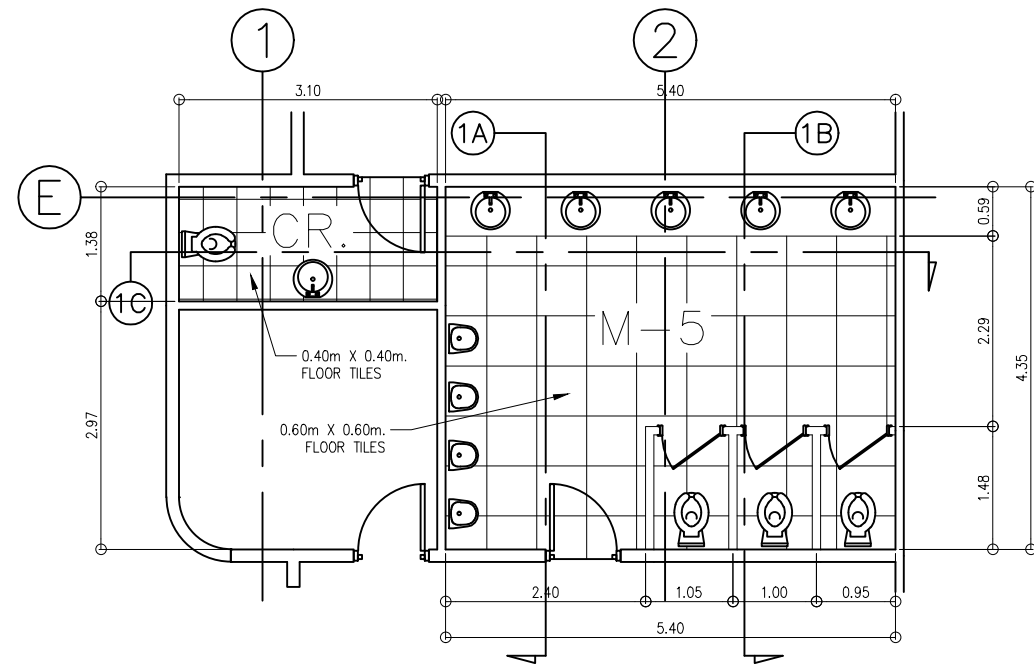


F-5 TOILET SECTION THRU-2B
SCALE 1:50 MTS

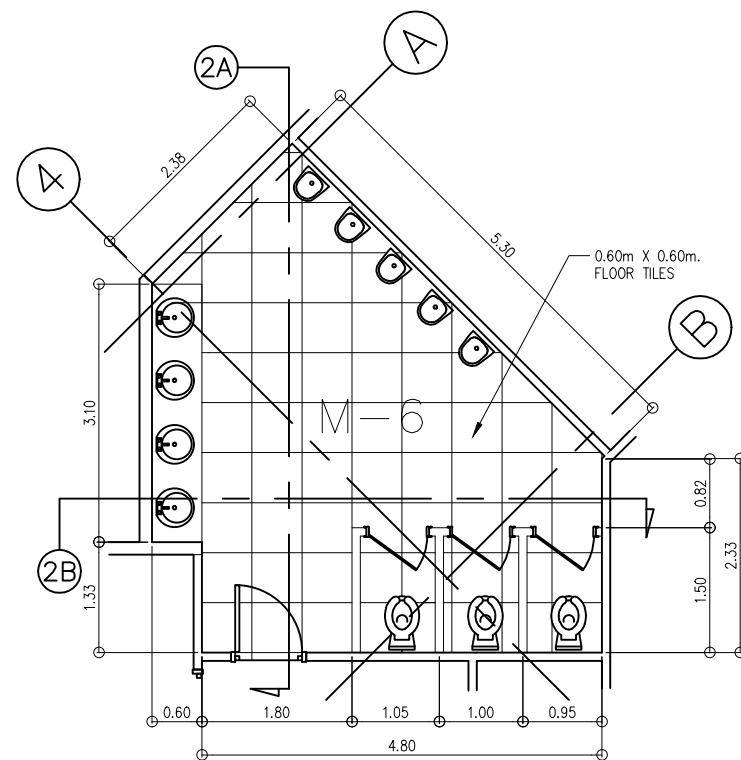


F-5 TOILET & VENUE MGR. CR. SECTION THRU-2C
SCALE 1:50 MTS

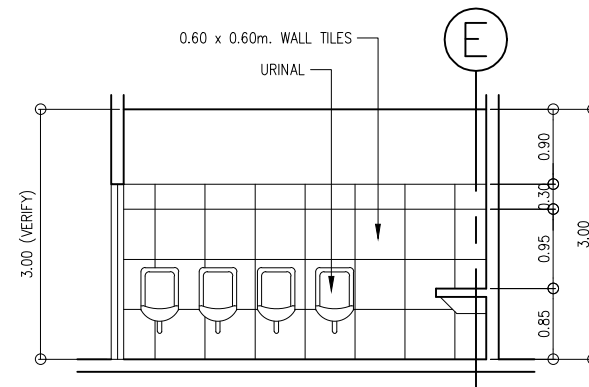
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		DATE:					



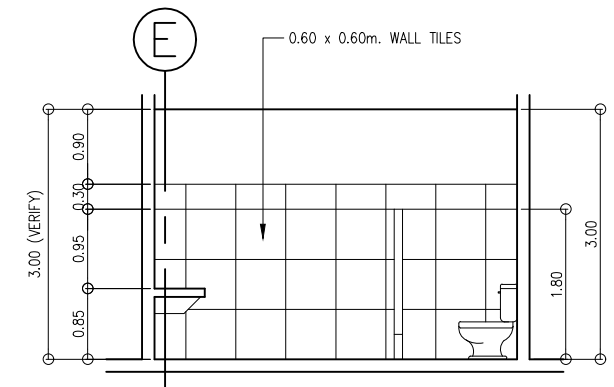
1 FLOOR PLAN OF M-5 & TRIATHLON CR. SCALE 1:50 MTS



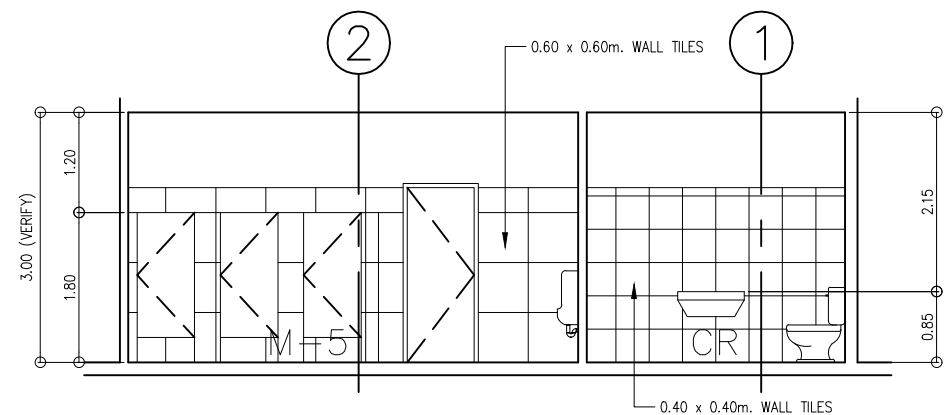
2 FLOOR PLAN OF M-6 SCALE 1:50 MTS



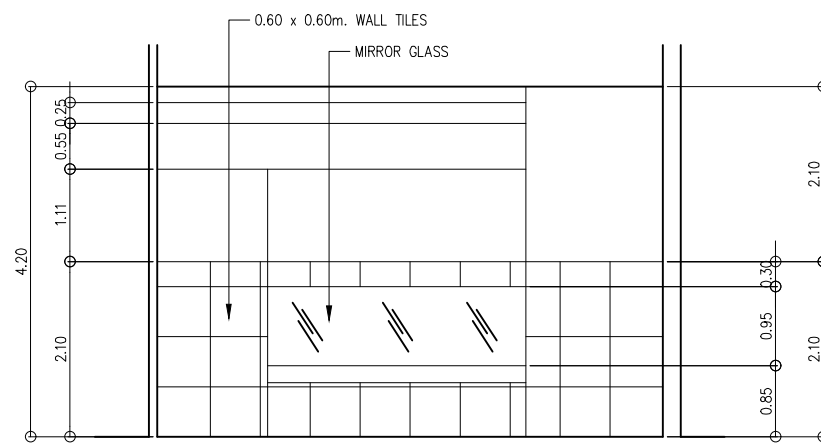
M-5 TOILET SECTION THRU-1A SCALE 1:50 MTS



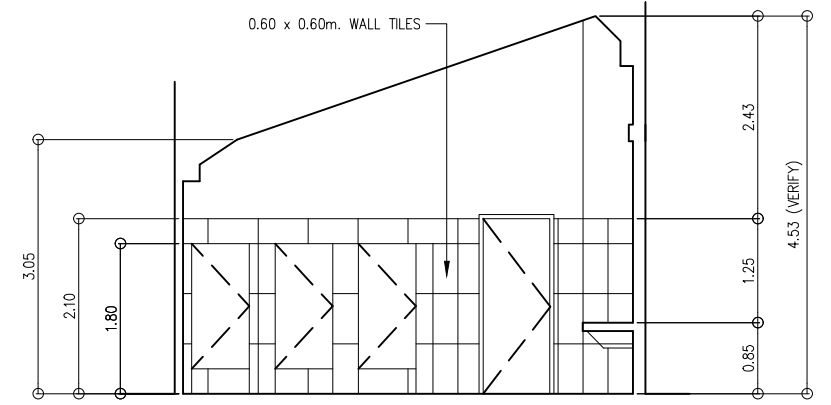
M-5 TOILET SECTION THRU-1B SCALE 1:50 MTS



M-5 TOILET & TRIATHLON CR. SECTION THRU-1C SCALE 1:50 MTS

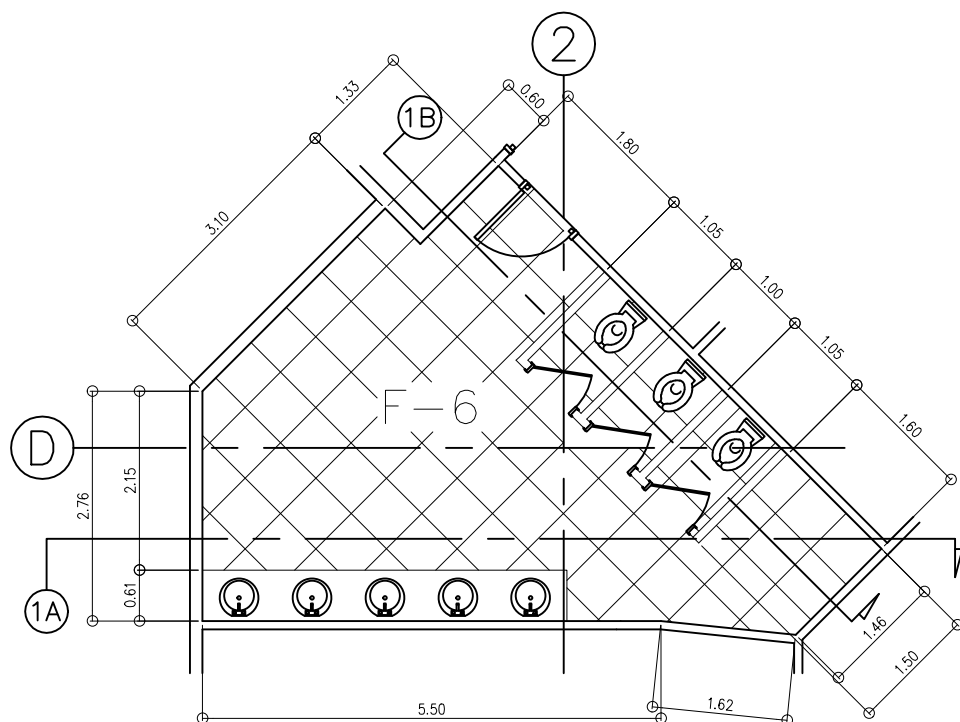


M-6 TOILET SECTION THRU-2A SCALE 1:50 MTS

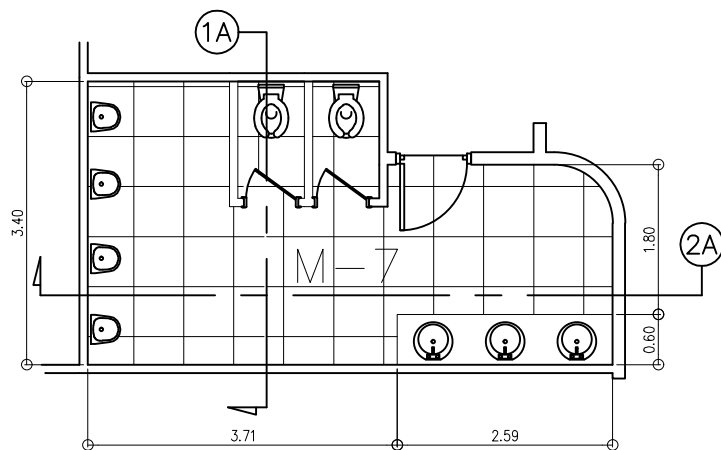


M-6 TOILET SECTION THRU-2B SCALE 1:50 MTS

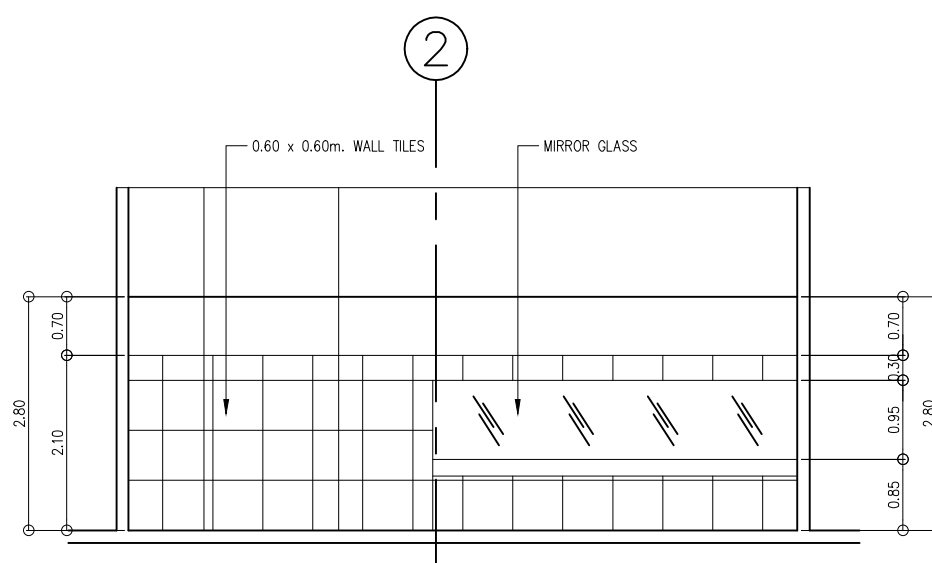
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		CHECK BY:					
		DATE:					



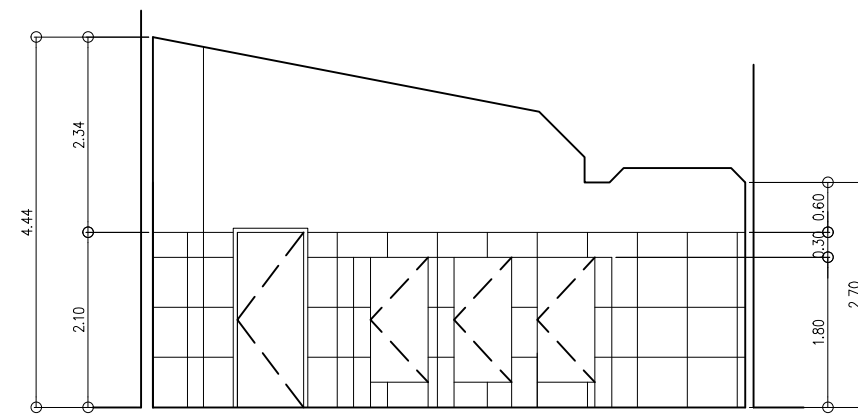
1 FLOOR PLAN OF F-6
SCALE 1:50 MTS



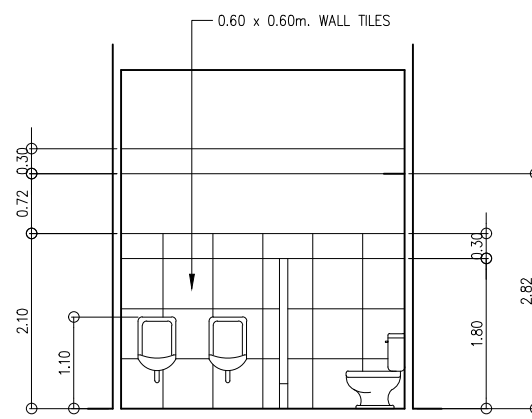
2 FLOOR PLAN OF M-7
SCALE 1:50 MTS



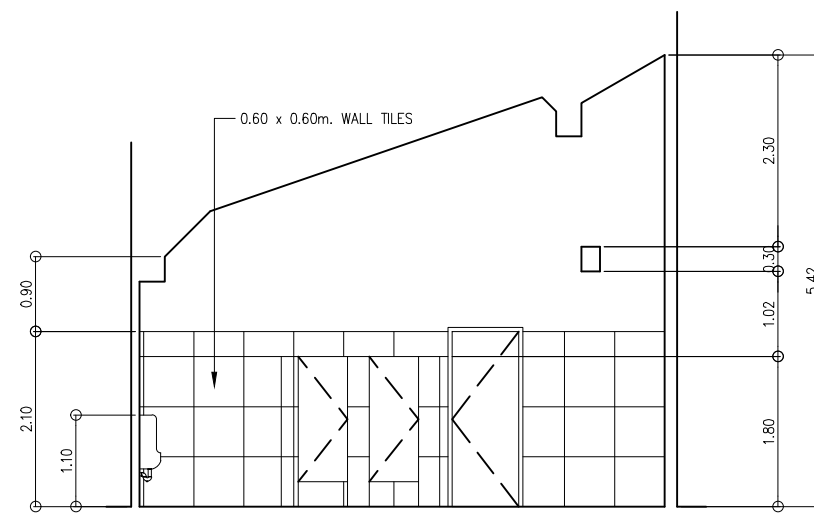
F-6 TOILET SECTION THRU-1A
SCALE 1:50 MTS



F-6 TOILET SECTION THRU-1B
SCALE 1:50 MTS

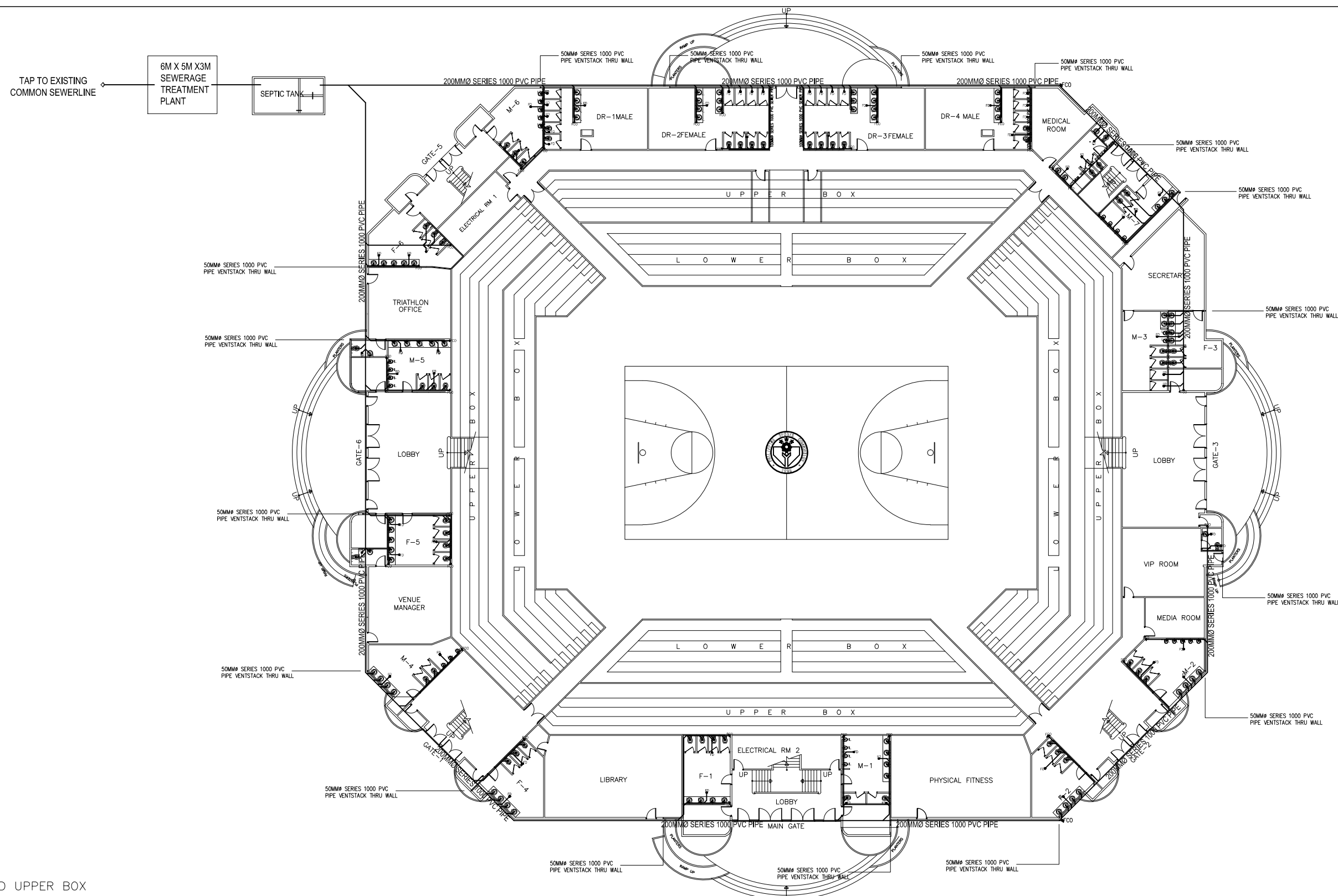


M-7 TOILET SECTION THRU-2A
SCALE 1:50 MTS



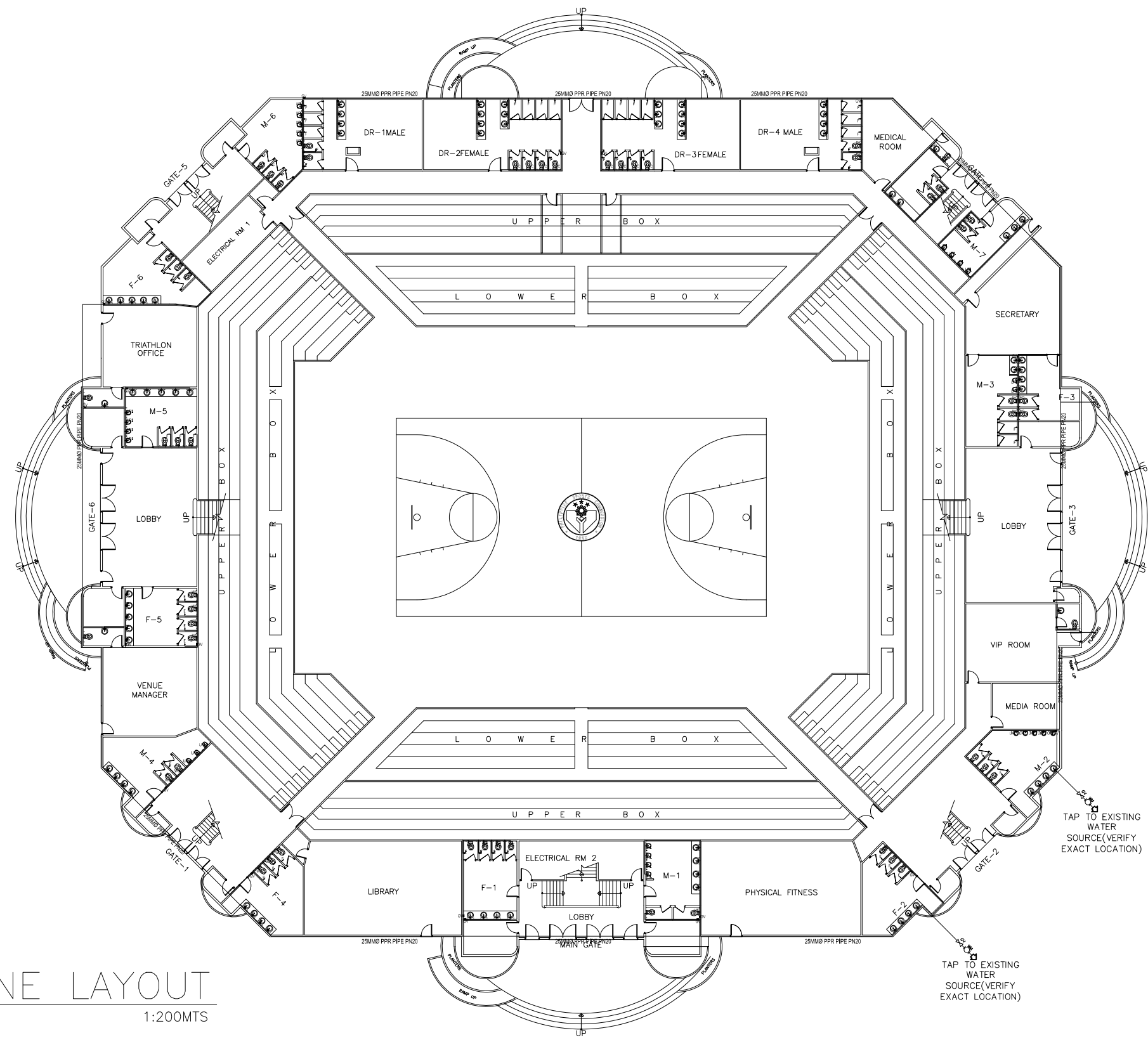
M-7 TOILET SECTION THRU-2B
SCALE 1:50 MTS

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	F-6 TOILET FLOOR PLAN F-6 TOILET ELEV./SEC. M-7 TOILET FLOOR PLAN M-7 TOILET ELEV./SEC.	A 12 12
		CHECK BY:					
		DATE:					



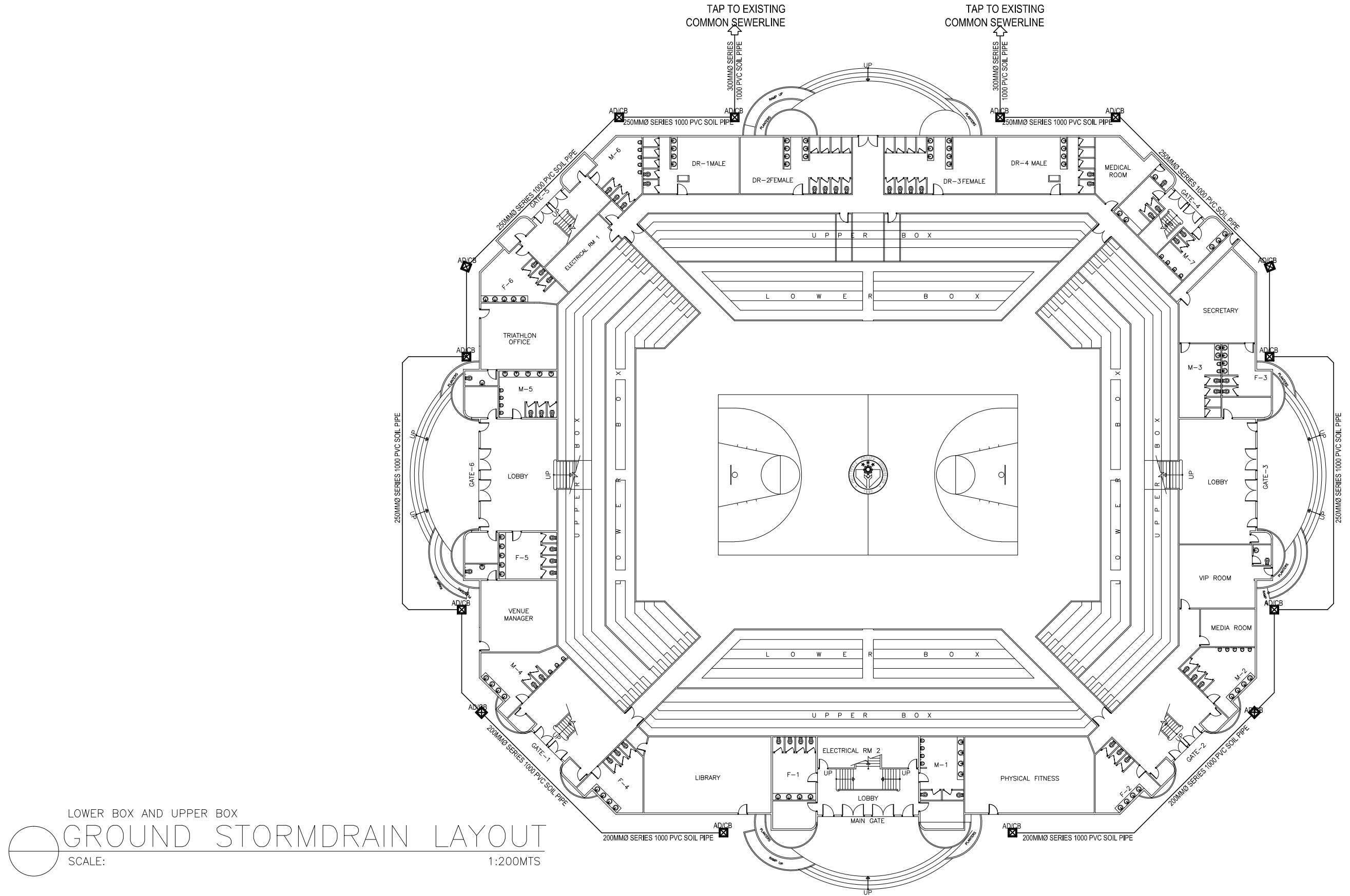
LOWER BOX AND UPPER BOX
GROUND SEWER & VENT LAYOUT
SCALE: 1:200MTS

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINOY AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	SP-1 14
		CHECK BY:					
		DATE:					



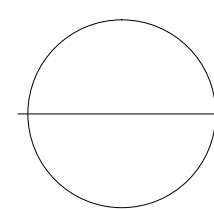
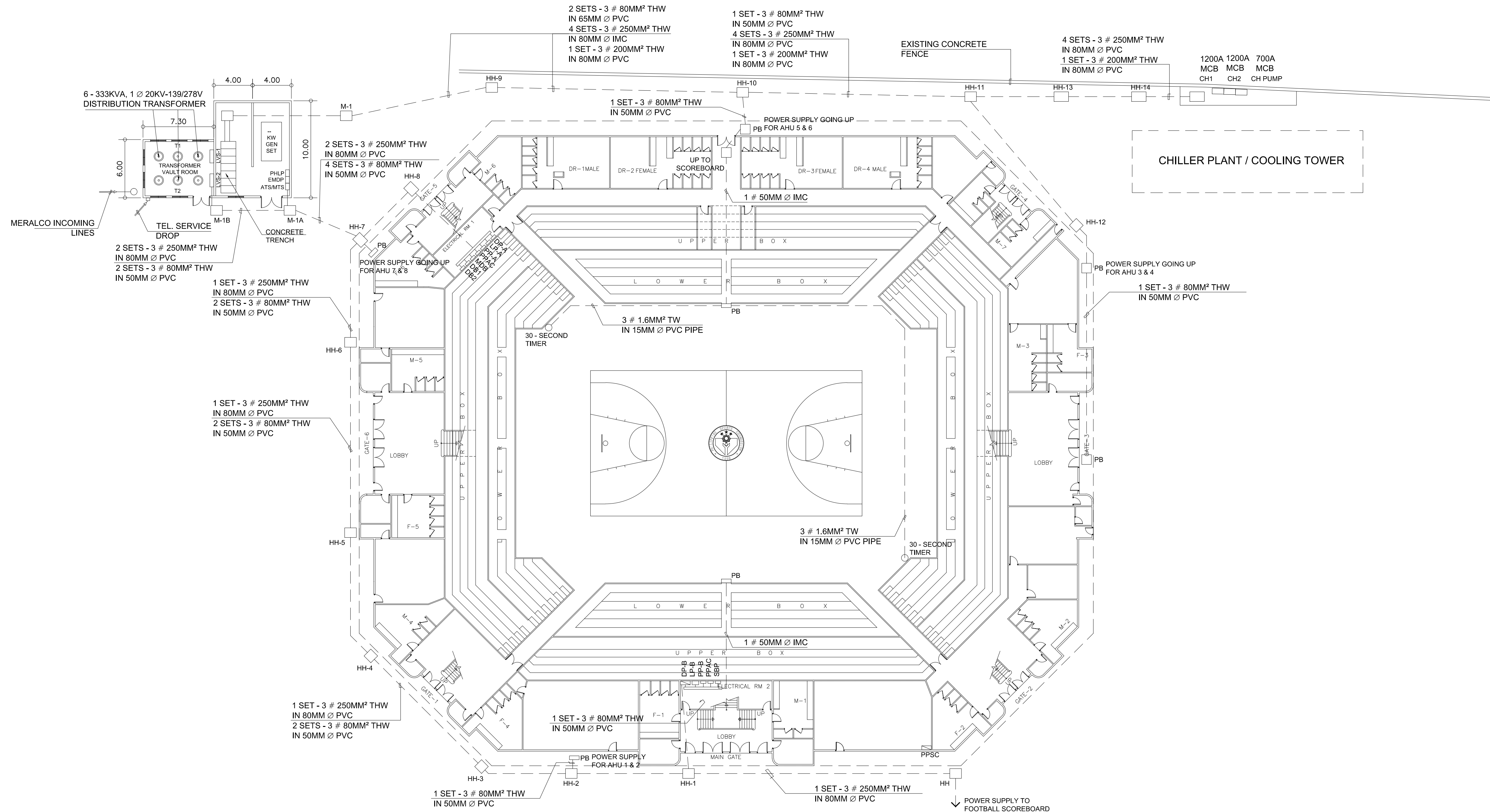
LOWER BOX AND UPPER BOX
GROUND WATERLINE LAYOUT
SCALE: 1:200MTS

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	SP-2 24
		CHECK BY:					
		DATE:					



LOWER BOX AND UPPER BOX
GROUND STORMDRAIN LAYOUT
SCALE: 1:200MTS

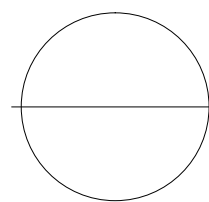
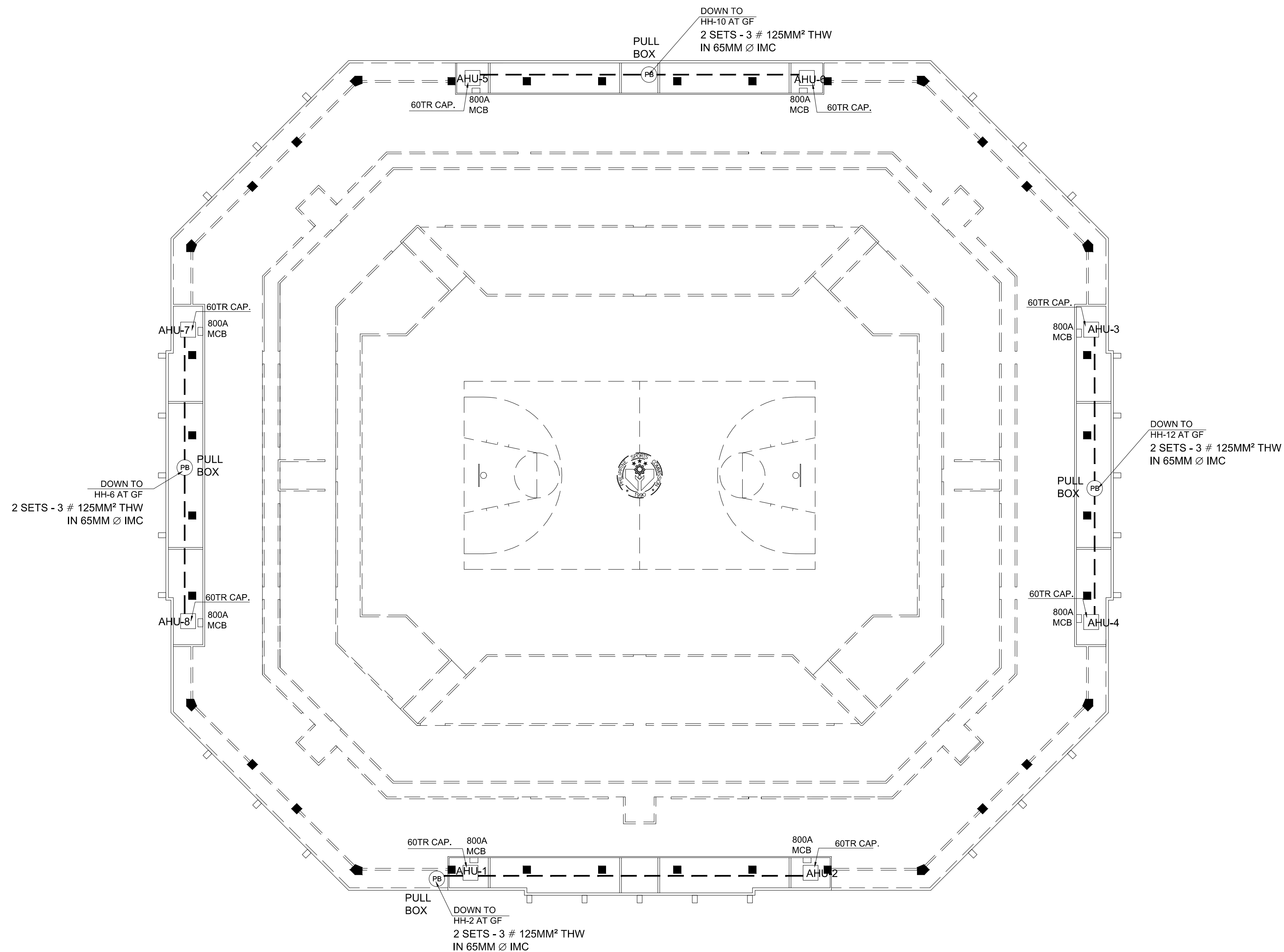
OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINOY AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	SP-3 34
		CHECKED BY:					
		DATE:					



GROUND FLOOR PLAN - FEEDER LINE LAYOUT

1:200

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINOY AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	E 122
		CHECK BY:					
		DATE:					

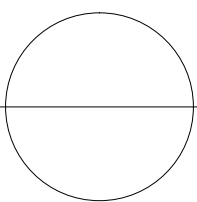


UPPER FLOOR PLAN - A/C AIR HANDLING UNIT (AHU) FEEDER LAYOUT

SCALE

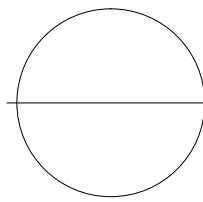
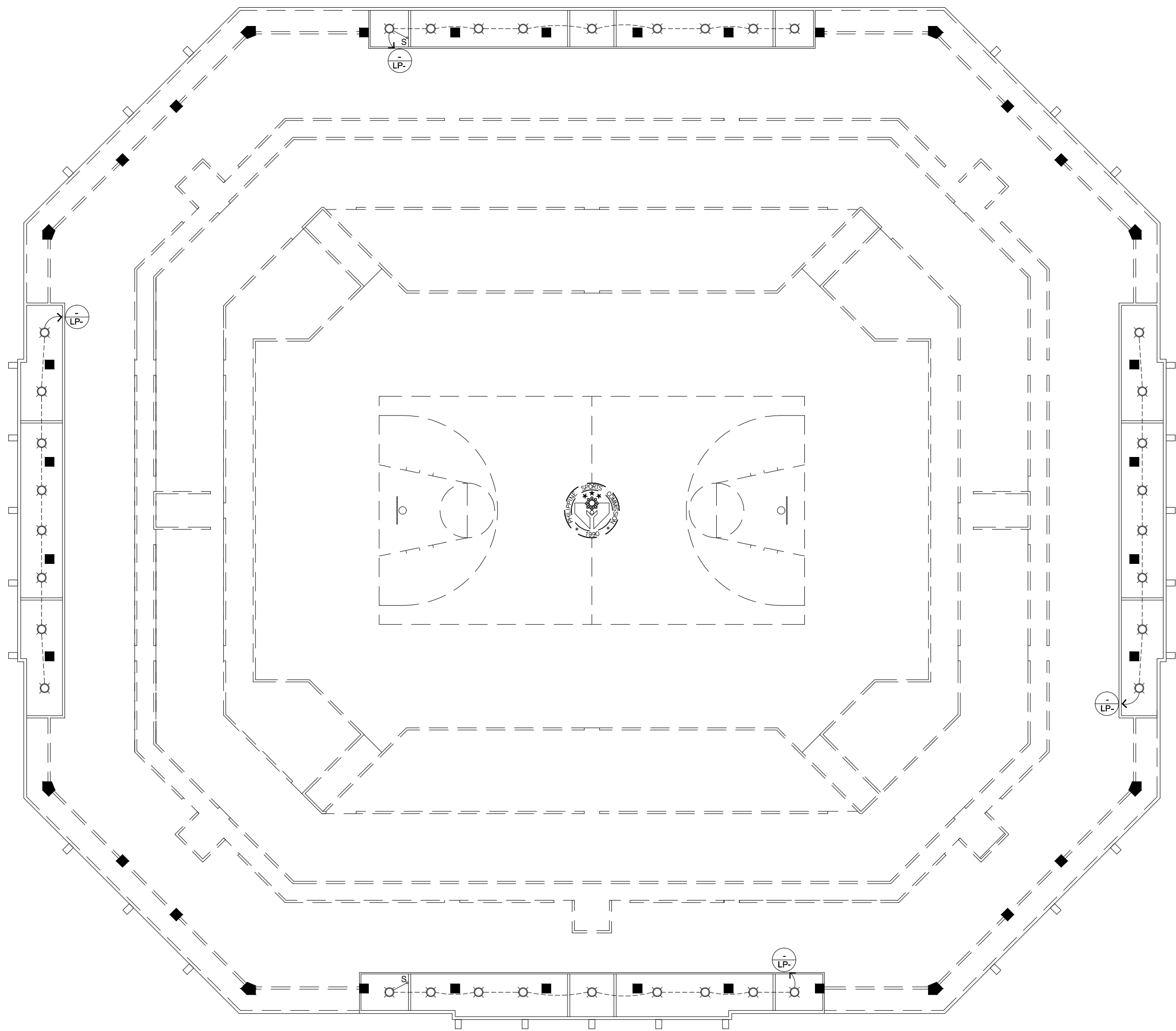
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OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	E 2 22
		CHECK BY:					
		DATE:					



SCALE

A pie chart labeled 'E' is divided into two segments. The left segment is labeled '3' and the right segment is labeled '22'.

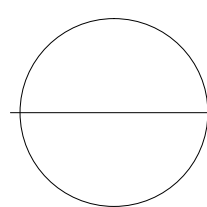
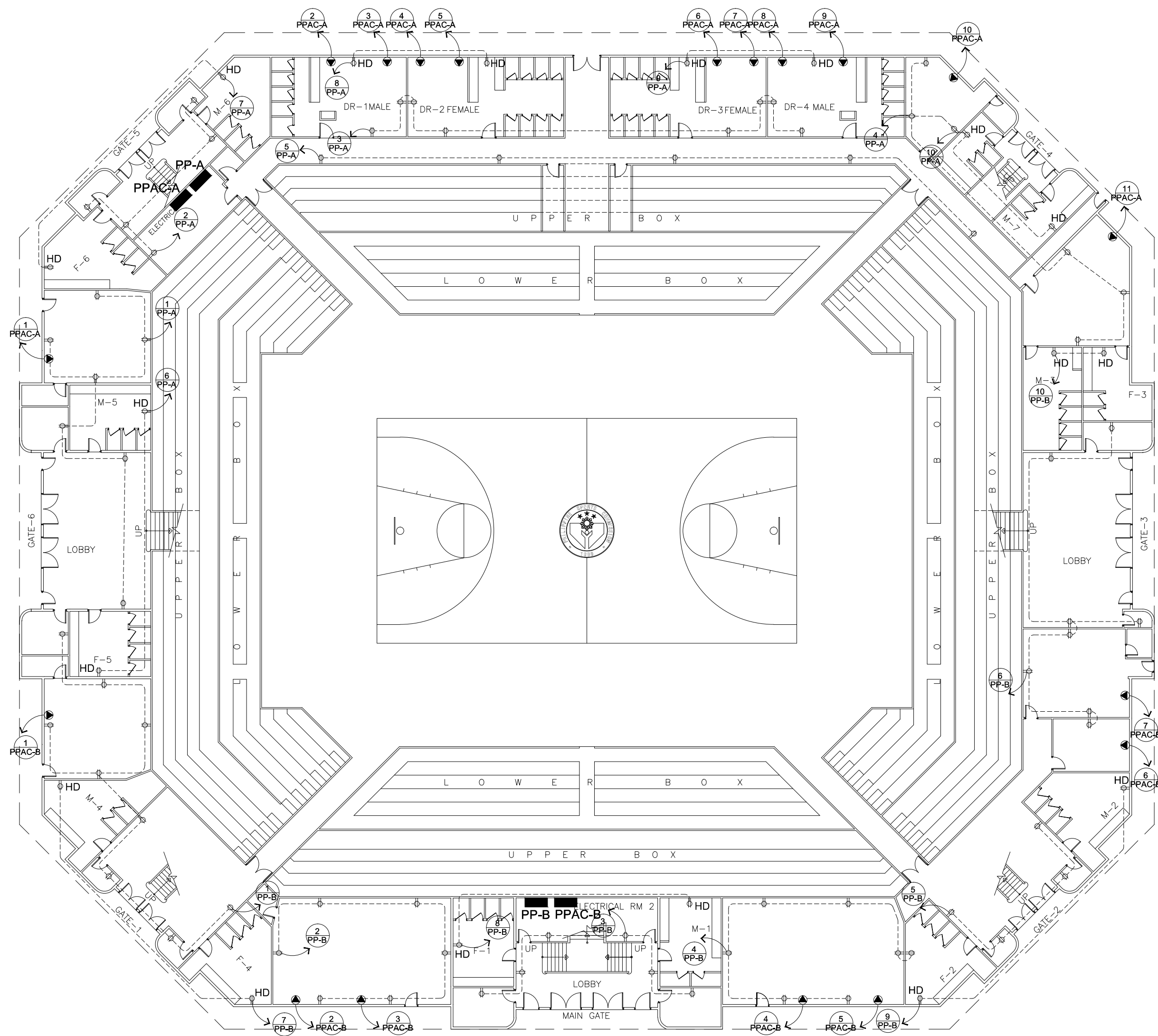


UPPER FLOOR PLAN - CEILING LIGHTING LAYOUT

SCALE

1:200

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 422
		CHECK BY:					
		DATE:					



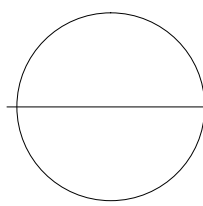
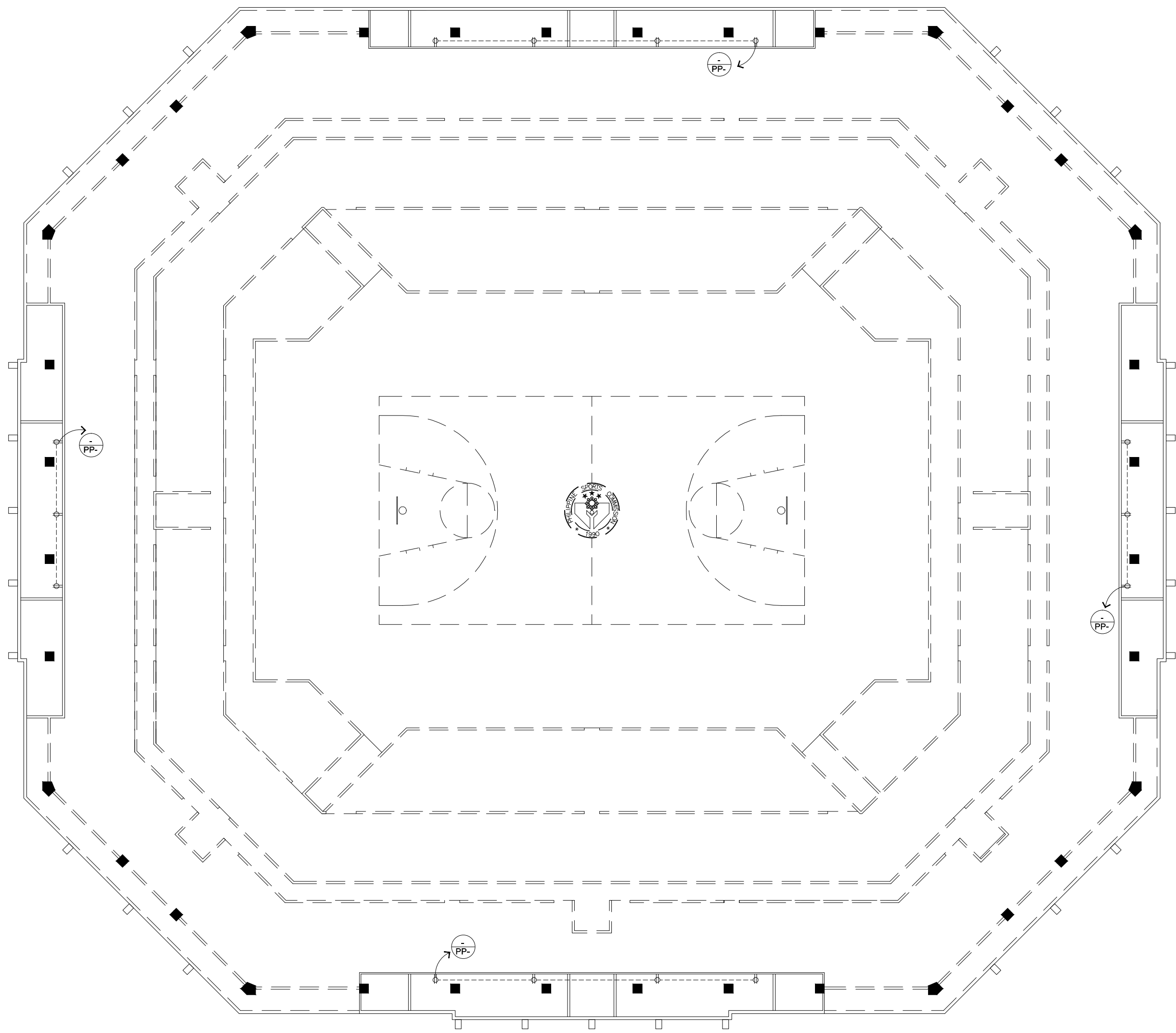
GROUND FLOOR PLAN - POWER LAYOUT

SCALE

1:200



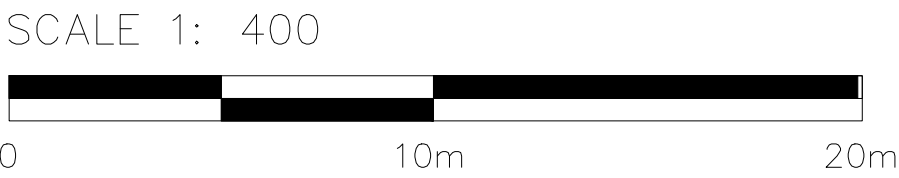
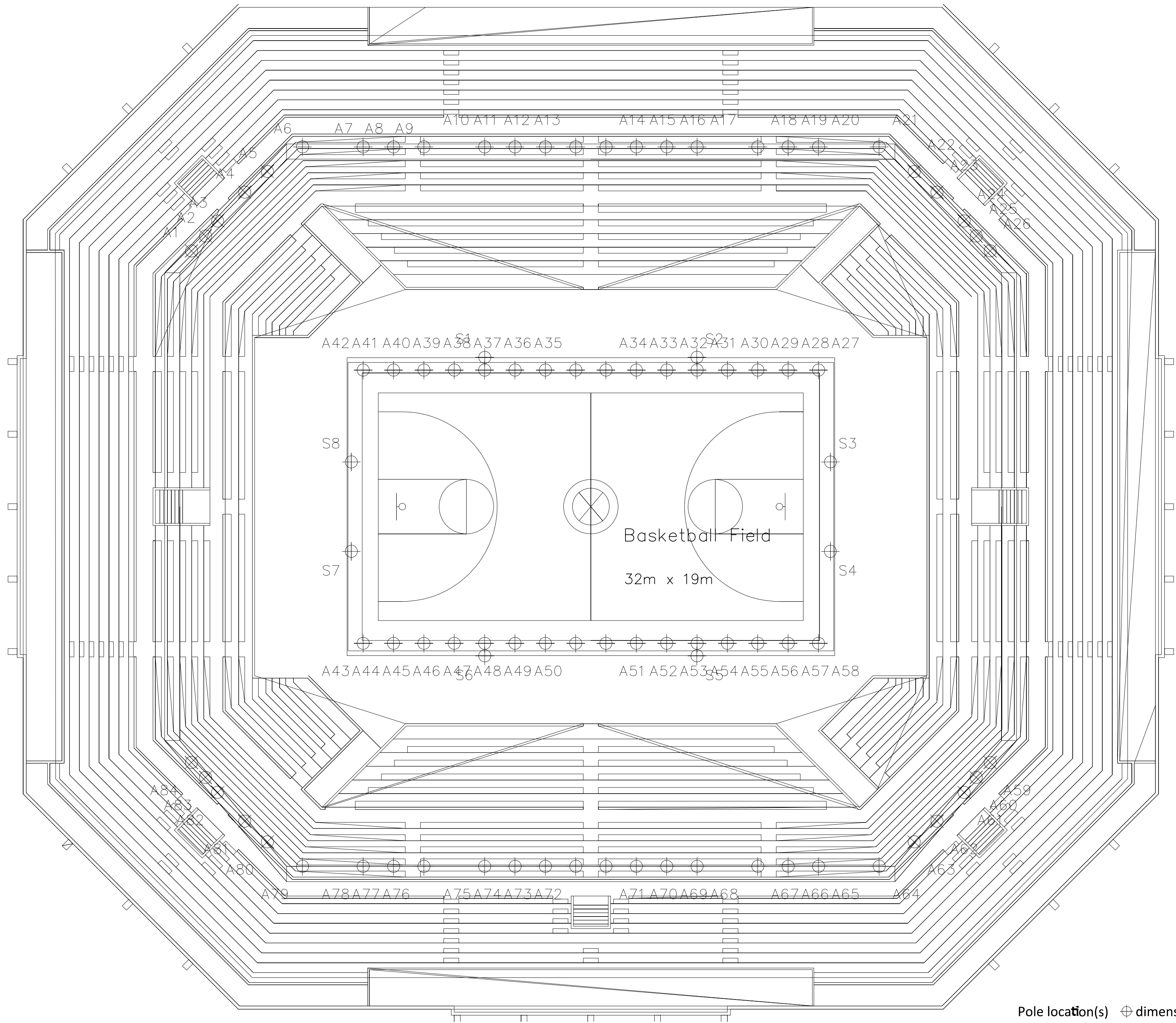
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 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	E 5 22
		CHECK BY:					
		DATE:					



UPPER FLOOR PLAN - POWER LAYOUT

SCALE 1:200

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 622
		CHECK BY:					
		DATE:					



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

EQUIPMENT LAYOUT

INCLUDES:

- Basketball Field

Electrical System Requirements:Refer to Amperage Draw Chart and/or the**"Control System Summary"** for electrical sizing.

Installation Requirements:Results assume 73% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
52	A1-A26 A59-A84		11m	11m	TLC-LED-400	1
32	A27-A30 A33-A36 A39-A46 A49-A52 A55-A58 S1-S8		13.5m	13.5m	TLC-LED-400	1
8	A31-A32 A37-A38 A47-A48 A53-A54		13.5m	13.5m	TLC-LED-400	2
92	TOTALS					100

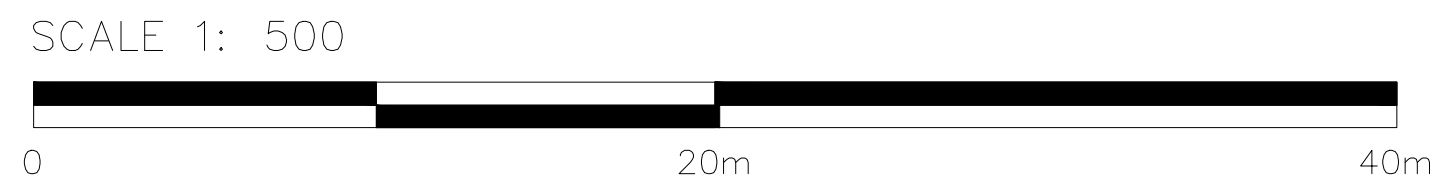
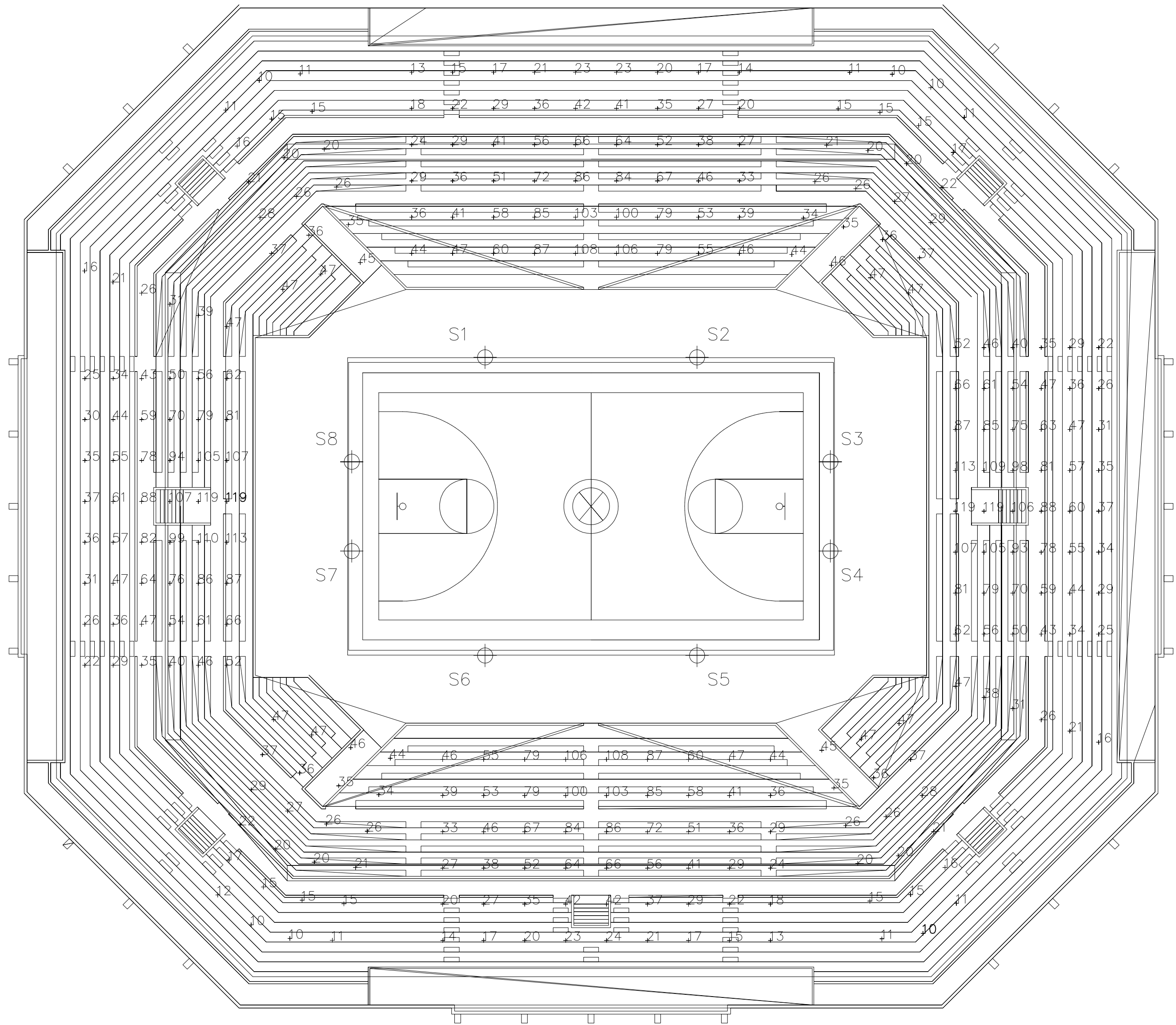
SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)					
Single Phase Voltage		208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
Other		-	-	-	-	-	-

EQUIPMENT LAYOUT

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINOY AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	E722
		CHECK BY:					
		DATE:					

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
8	S1-S8		13.5m	13.5m	TLC-LED-400	1	1	0
8	TOTALS					8	8	0



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

GRID SUMMARY	
Name:	03 Auditorium
Size:	32m x 19m
Spacing:	3.1m x 3.1m
Height:	1.7m above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL LUX

Entire Grid

Scan Average: 45.75

Maximum: 119

Minimum: 10

Min / Avg: 0.22

Min / Max: 0.08

UG (adjacent pts): 0.00

CU: 0.50

No. of Points: 300

LUMINAIRE INFORMATION

Color / CRI: 5700K - 90 CRI

Luminaire Output: 35,340 lumens

No. of Luminaires: 8

Total Load: 3.2 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your --- Warranty document and includes a 0.95 dirt depreciation factor.

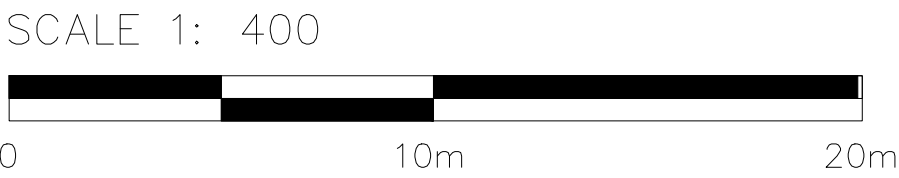
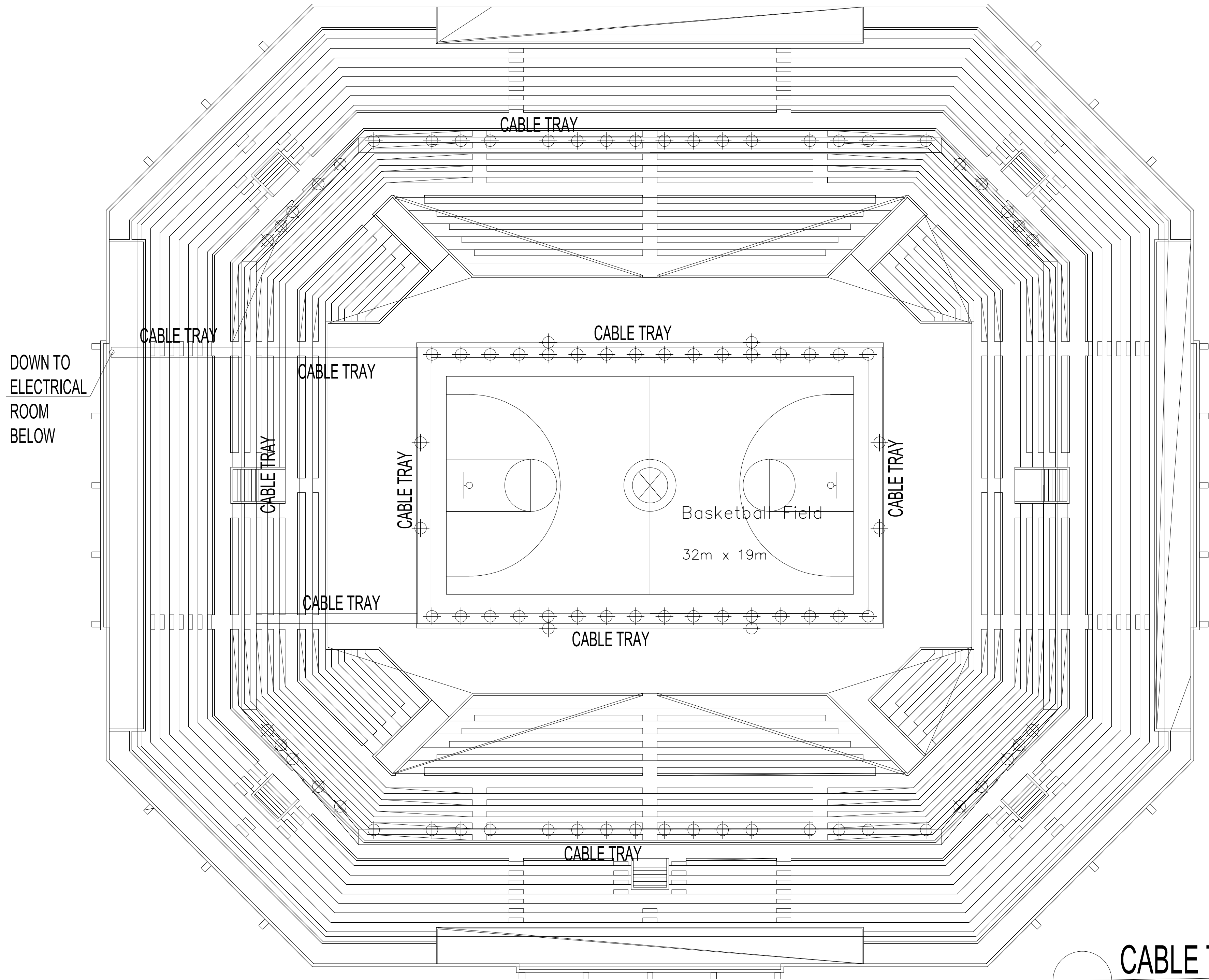
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements:Refer to Amperage Draw Chart and/or the"**Control System Summary**" for electrical sizing.

Installation Requirements:Results assume 73% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

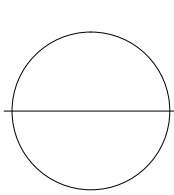
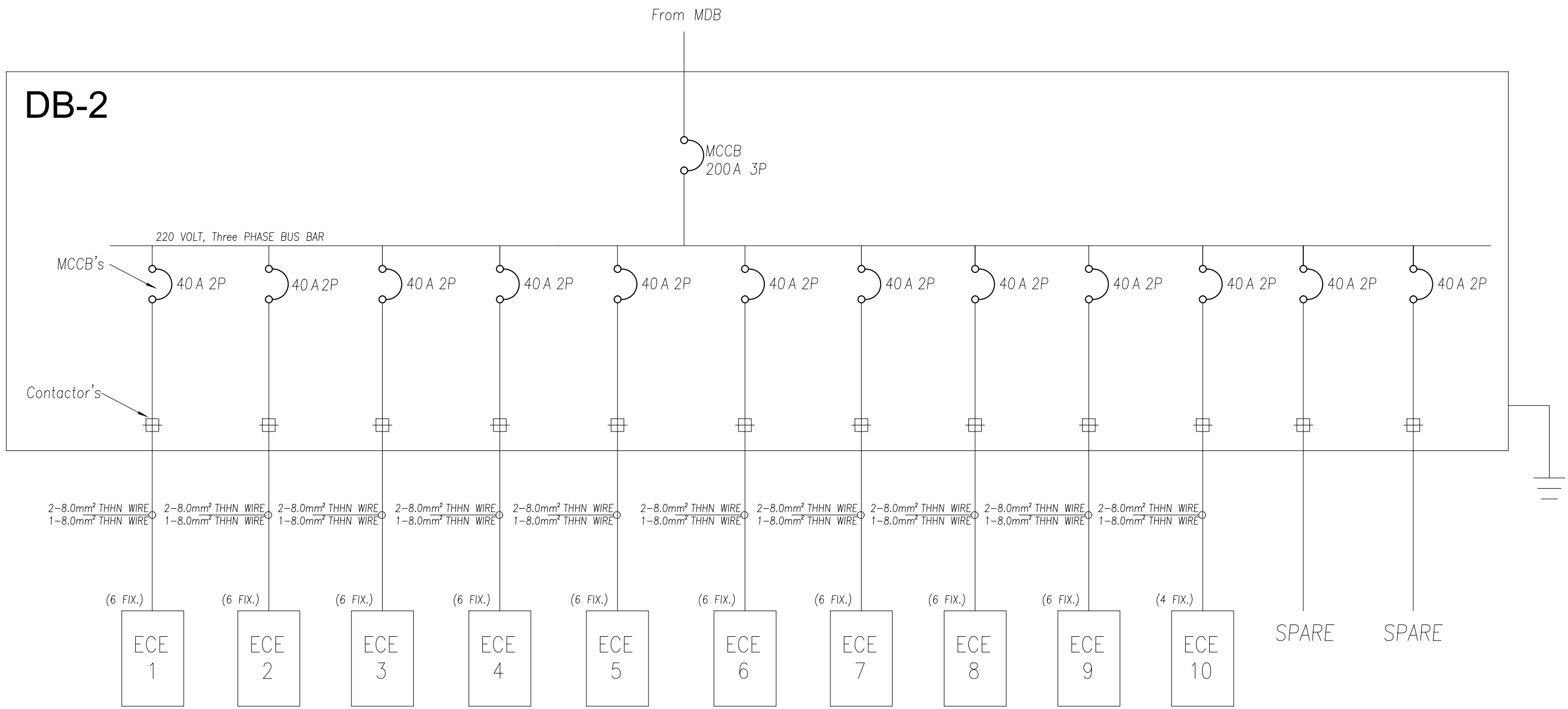
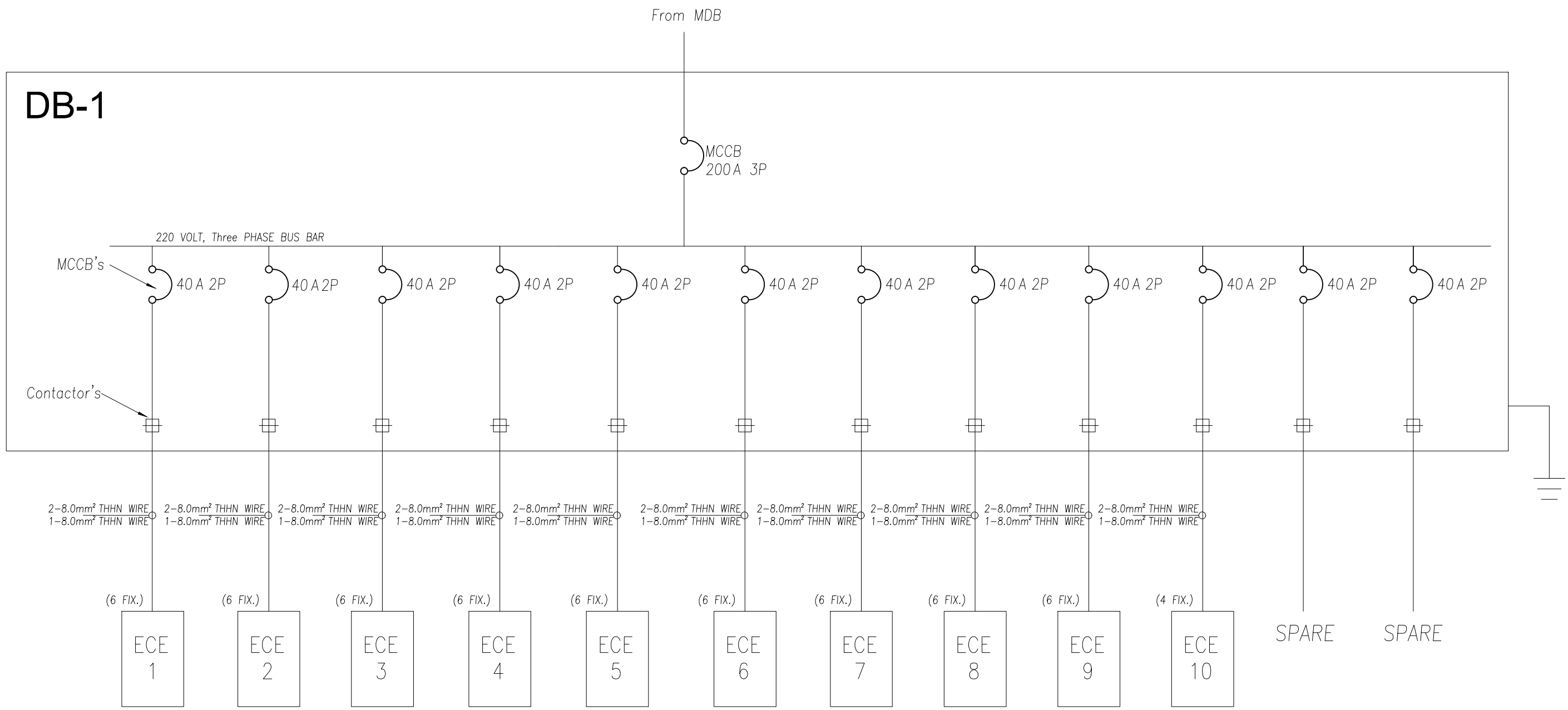
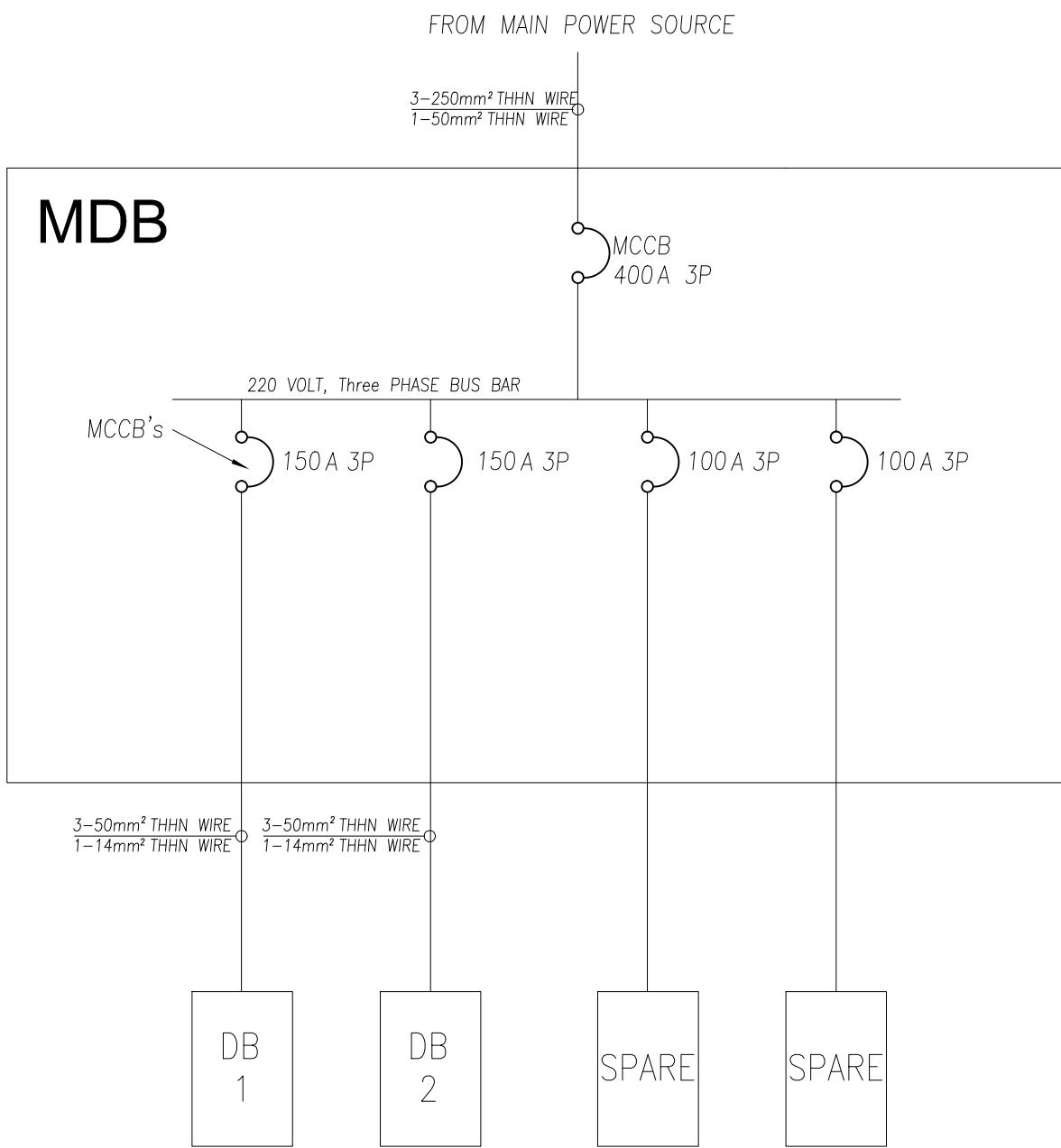
ILLUMINATION SUMMARY

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINOY AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 8 22
		CHECK BY:					
		DATE:					



CABLE TRAY LAYOUT
NOT TO SCALE

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINOY AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 922
		CHECK BY:					
		DATE:					



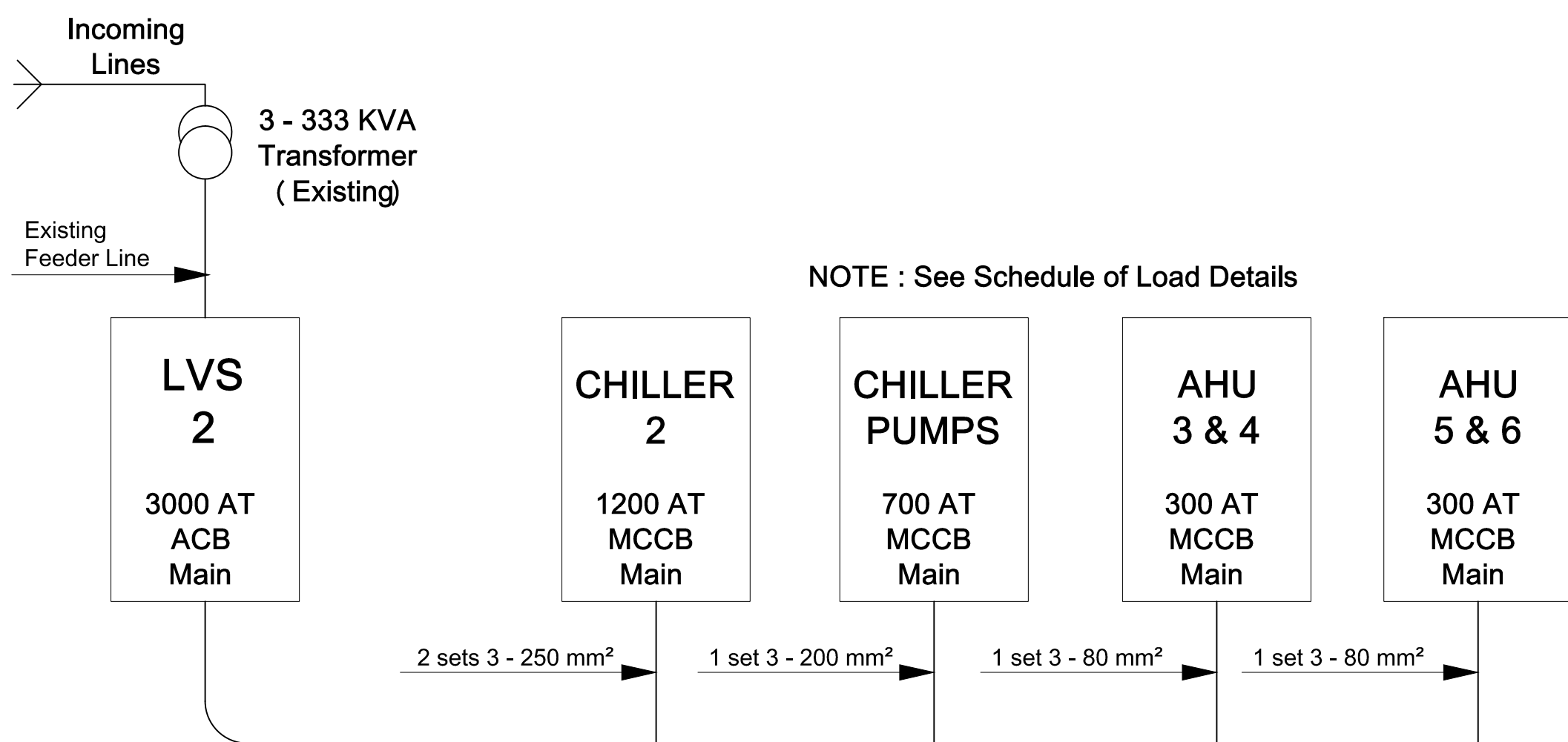
DISTRIBUTION BOARD DETAIL (MDB & DB PANEL)

NOT

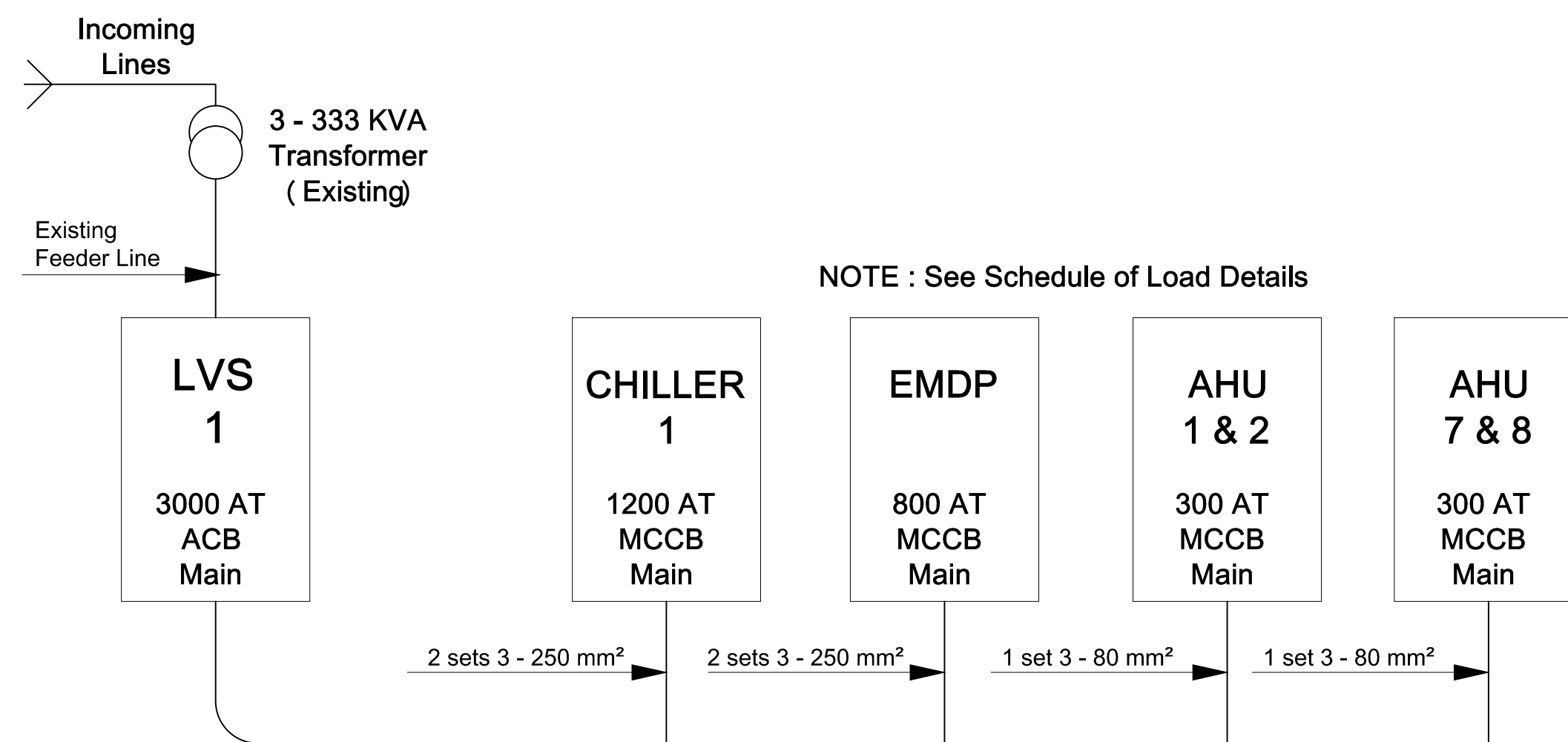
TO

SCALE

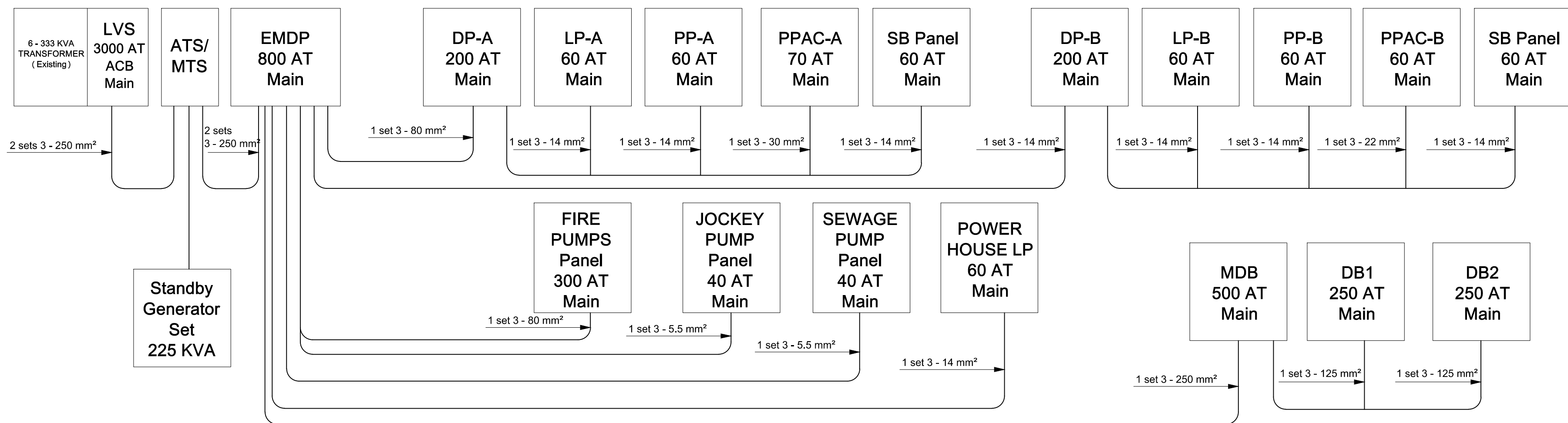
OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 1122
		CHECK BY:					
		DATE:					



LVS 2 - POWER SINGLE LINE DIAGRAM



LVS 1 - POWER SINGLE LINE DIAGRAM



EMDP - EMERGENCY MAIN DISTRIBUTION PANEL - POWER SINGLE LINE DIAGRAM

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 1222
		CHECK BY:					
		DATE:					

SCHEDULE OF LOADS											
MDB											
CKT NO.	LOAD DESCRIPTION	Total Ampere	Voltage	Phase Connection (Amperes)			Circuit Breaker		Wire		Conduit
			V	AB	BC	CA	AT	P	MM²	MM²	INCHES
1	DB-1	2.20	220	48.40	52.80	52.80	150	3	3-8.0	14.0	1 1/2"
2	DB-2	2.20	220	48.40	52.80	52.80	150	3	3-8.0	14.0	1 1/2"
3	SPARE	-	-	25.00	25.00	25.00	100	3	-	-	-
4	SPARE	-	-	25.00	25.00	25.00	100	3	-	-	-
	TOTAL CONNECTED LOADS			146.80	155.60	155.60					
I = 155.60 x 1.732 @ 100% DEMAND FACTOR I = 269.50 Amp				USE: 3 – 250mm² THHN WIRE + 1-50MM² IN 3 1/2” Ø IMC CONDUIT				CIRCUIT BREAKER: 400 AT 3P, 250V WITH GROUND			

SCHEDULE OF LOADS											
DB-1											
CKT NO.	LOAD DESCRIPTION	Total Ampere	Voltage	Phase Connection (Amperes)			Circuit Breaker		Wire		Conduit
			V	AB	BC	CA	AT	P	MM²	MM²	INCHES
1	6 LIGHTS (TLC-LED-400)	2.20	220	13.20			40	2	2-8.0	8.0	3/4"
2	6 LIGHTS (TLC-LED-400)	2.20	220		13.20		40	2	2-8.0	8.0	3/4"
3	6 LIGHTS (TLC-LED-400)	2.20	220			13.20	40	2	2-8.0	8.0	3/4"
4	6 LIGHTS (TLC-LED-400)	2.20	220	13.20			40	2	2-8.0	8.0	3/4"
5	6 LIGHTS (TLC-LED-400)	2.20	220		13.20		40	2	2-8.0	8.0	3/4"
6	6 LIGHTS (TLC-LED-400)	2.20	220			13.20	40	2	2-8.0	8.0	3/4"
7	6 LIGHTS (TLC-LED-400)	2.20	220	13.20			40	2	2-8.0	8.0	3/4"
8	6 LIGHTS (TLC-LED-400)	2.20	220		13.20		40	2	2-8.0	8.0	3/4"
9	6 LIGHTS (TLC-LED-400)	2.20	220			13.20	40	2	2-8.0	8.0	3/4"
10	4 LIGHTS (TLC-LED-400)	2.20	220	8.80			40	2	2-8.0	8.0	3/4"
11	SPARE	-	-		13.20		40	2	-	-	-
12	SPARE	-	-			13.20	40	2	-	-	-
	TOTAL CONNECTED LOADS			48.40	52.80	52.80					
I = 52.80 x 1.732 @ 100% DEMAND FACTOR I = 91.50 Amp				USE: 3 - 50mm² THHN WIRE + 1-14MM² IN 1 1/2" ø IMC CONDUIT				CIRCUIT BREAKER: 150 AT 3P, 250V WITH GROUND			

SCHEDULE OF LOADS											
DB-2											
CKT NO.	LOAD DESCRIPTION	Total Ampere	Voltage	Phase Connection (Amperes)			Circuit Breaker		Wire		Conduit
			V	AB	BC	CA	AT	P	MM²	MM²	INCHES
1	6 LIGHTS (TLC-LED-400)	2.20	220	13.20			40	2	2-8.0	8.0	3/4"
2	6 LIGHTS (TLC-LED-400)	2.20	220		13.20		40	2	2-8.0	8.0	3/4"
3	6 LIGHTS (TLC-LED-400)	2.20	220			13.20	40	2	2-8.0	8.0	3/4"
4	6 LIGHTS (TLC-LED-400)	2.20	220	13.20			40	2	2-8.0	8.0	3/4"
5	6 LIGHTS (TLC-LED-400)	2.20	220		13.20		40	2	2-8.0	8.0	3/4"
6	6 LIGHTS (TLC-LED-400)	2.20	220			13.20	40	2	2-8.0	8.0	3/4"
7	6 LIGHTS (TLC-LED-400)	2.20	220	13.20			40	2	2-8.0	8.0	3/4"
8	6 LIGHTS (TLC-LED-400)	2.20	220		13.20		40	2	2-8.0	8.0	3/4"
9	6 LIGHTS (TLC-LED-400)	2.20	220			13.20	40	2	2-8.0	8.0	3/4"
10	4 LIGHTS (TLC-LED-400)	2.20	220	8.80			40	2	2-8.0	8.0	3/4"
11	SPARE	-	-		13.20		40	2	-	-	-
12	SPARE	-	-			13.20	40	2	-	-	-
	TOTAL CONNECTED LOADS			48.40	52.80	52.80					
I = 52.80 x 1.732 @ 100% DEMAND FACTOR I = 91.50 Amp				USE: 3 – 50mm² THHN WIRE + 1-14MM² IN 1 1/2" ø IMC CONDUIT				CIRCUIT BREAKER: 150 AT 3P, 250V WITH GROUND			

NOT

MDB & DB - DESIGN AND LOAD COMPUTATION

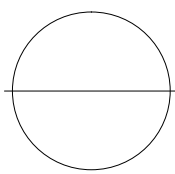
TO

SCALE

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 13 22
		CHECK BY:					
		DATE:					

SCHEDULE OF LOADS								
ECE PANEL: (TYPICAL: DB-1 TO DB-9)								
CKT NO.	LOAD DESCRIPTION (each fixture - LED)	Voltage	Total Ampere	Circuit Breaker		Wire		Conduit
		V		AT	P	MM²	MM²	INCHES
1	1-Light (TLC-LED-400)	220	2.20		2	2-3.5	3.5	CABLE TRAY
2	1-Light (TLC-LED-400)	220	2.20		2	2-3.5	3.5	
3	1-Light (TLC-LED-400)	220	2.20		2	2-3.5	3.5	
4	1-Light (TLC-LED-400)	220	2.20		2	2-3.5	3.5	
5	1-Light (TLC-LED-400)	220	2.20		2	2-3.5	3.5	
6	1-Light (TLC-LED-400)	220	2.20		2	2-3.5	3.5	
TOTAL CONNECTED LOADS			13.20					
I = 13.20 @ 100% DEMAND FACTOR I = 13.20 Amp			USE: 2 - 8.0mm ² THHN 1 - 8.0mm ² GROUND WIRE IN 1” IMC CONDUIT			CIRCUIT BREAKER: 40 AT 2P, 250V WITH GROUND		

SCHEDULE OF LOADS								
ECE PANEL: (TYPICAL: DB-1 TO DB-9)								
CKT NO.	LOAD DESCRIPTION (each fixture - LED)	Voltage	Total Ampere	Circuit Breaker		Wire		Conduit
		V		AT	P	MM²	MM²	INCHES
1	1-Light (TLC-LED-400)	220	2.20		2	2-3.5	3.5	CABLE TRAY
2	1-Light (TLC-LED-400)	220	2.20		2	2-3.5	3.5	
3	1-Light (TLC-LED-400)	220	2.20		2	2-3.5	3.5	
4	1-Light (TLC-LED-400)	220	2.20		2	2-3.5	3.5	
TOTAL CONNECTED LOADS			8.80					
I = 8.80 @ 100% DEMAND FACTOR I = 8.80 Amp			USE: 2 - 8.0mm ² THHN 1 - 8.0mm ² GROUND WIRE IN 1” IMC CONDUIT			CIRCUIT BREAKER: 40 AT 2P, 250V WITH GROUND		



ECE DESIGN AND LOAD COMPUTATION

NOT TO SCALE

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		CHECK BY:					
		DATE:					

SCHEDULE OF LOADS											
LP - A (Lighting Panel)				Mounting : Surface Mounted							
Ckt. No.	Load Description	No. of Lights	Watts	Total Watts	Phase Connection			Circuit Breaker		Wire	Conduit
					AB	BC	CA	AT	P	MM ²	MM
1	Lighting Outlet	15	100	1500	6.52			20	2	2 - 3.5	15
2	Lighting Outlet	8	100	800	3.48			20	2	3.5	15
3	Lighting Outlet	11	100	1100			4.78	20	2	3.5	15
4	Lighting Outlet	10	100	1000			4.35	20	2	3.5	15
5	Lighting Outlet	12	100	1200		5.22		20	2	3.5	15
6	Lighting Outlet	10	100	1000		4.35		20	2	3.5	15
7	Lighting Outlet	12	100	1200	5.22			20	2	3.5	15
8	Lighting Outlet	9	100	900	3.91			20	2	3.5	15
9	Lighting Outlet	13	100	1300			5.65	20	2	3.5	15
10	Spare			1000			4.35	20	2		
11	Spare			1000		4.35		20	2		
12	Spare			1000		4.35		20	2		
Total Connected Load					19.13	18.27	19.13				
Computations : I = 19.13 x 1.73 @ 80% Demand Factor = 26.48 Amperes					Use: 3 - 14.0 mm ² THHN 1 - 8.0 mm ² Ground			Use: 25 mm Ø		Circuit Breaker : 60AT, 3P, 230 V MCCB	

SCHEDULE OF LOADS											
LP - B (Lighting Panel)				Mounting : Surface Mounted							
Ckt. No.	Load Description	No. of Lights	Watts	Total Watts	Phase Connection			Circuit Breaker		Wire	Conduit
					AB	BC	CA	AT	P	MM ²	MM
1	Lighting Outlet	8	100	800	3.48			20	2	2 - 3.5	15
2	Lighting Outlet	8	100	800	3.48			20	2	3.5	15
3	Lighting Outlet	11	100	1100			4.78	20	2	3.5	15
4	Lighting Outlet	13	100	1300			5.65	20	2	3.5	15
5	Lighting Outlet	8	100	800		3.48		20	2	3.5	15
6	Lighting Outlet	9	100	900		3.91		20	2	3.5	15
7	Lighting Outlet	6	100	600	2.61			20	2	3.5	15
8	Lighting Outlet	13	100	1300	5.65			20	2	3.5	15
9	Spare		100	1000			4.35	20	2		
10	Spare		100	1000			4.35	20	2		
11	Spare		100	1000		4.35		20	2		
12	Spare		100	1000		4.35		20	2		
Total Connected Loads					15.22	16.09	19.13				
Computations : I = 19.13 x 1.73 @ 80% Demand Factor = 26.48 Amperes					Use: 3 - 14.0 mm ² THHN 1 - 8.0 mm ² Ground			Use : 25 mm Ø		Circuit Breaker : 60AT, 3P, 230 V MCCB	

SCHEDULE OF LOADS											
PP - A (Power Panel)				Mounting : Surface Mounted							
Ckt. No.	Load Description	No. of Outlets	Watts	Total Watts	Phase Connection			Circuit Breaker		Wire	Conduit
					AB	BC	CA	AT	P	MM ²	MM
1	C.O. - Outlet	8	360	2880	6.26			20	2	2 - 3.5	15
2	C.O. - Outlet	4	360	1440	3.13			20	2	2 - 3.5	15
3	C.O. - Outlet	8	360	2880			6.26	20	2	2 - 3.5	15
4	C.O. - Outlet	6	360	2160			4.70	20	2	2 - 3.5	15
5	C.O. - Outlet	5	360	1800		3.92		20	2	2 - 3.5	15
6	Hand Dryer	2	1000	2000		8.70		20	2	2 - 3.5	15
7	Hand Dryer	2	1000	2000	8.70			20	2	2 - 3.5	15
8	Hand Dryer	2	1000	2000	8.70			20	2	2 - 3.5	15
9	Hand Dryer	2	1000	2000			8.70	20	2	2 - 3.5	15
10	Hand Dryer	2	1000	2000			8.70	20	2	2 - 3.5	15
11	Spare					4.35		20			
12	Spare					4.35		20			
Total Connected Load					26.79	21.32	28.36				
Computations : I = 28.36 x 1.73 @ 80% Demand Factor = 39.25 Amperes					Use: 3 - 14.0 mm ² THHN 1 - 8.0 mm ² Ground			Use : 25 mm Ø		Circuit Breaker : 60AT, 3P, 230 V MCCB	

SCHEDULE OF LOADS											
PP - B (Power Panel)				Mounting : Surface Mounted							
Ckt. No.	Load Description	No. of Outlets	Watts Duplex	Total Watts	Phase Connection			Circuit Breaker		Wire	Conduit
					AB	BC	CA	AT	P	MM ²	MM
1	C.O. - Outlet	8	360	2880	6.26			20	2	2 - 3.5	15
2	C.O. - Outlet	6	360	2160	4.70			20	2	2 - 3.5	15
3	C.O. - Outlet	6	360	2160			4.70	20	2	2 - 3.5	15
4	C.O. - Outlet	6	360	2160			4.70	20	2	2 - 3.5	15
5	C.O. - Outlet	4	360	1440		1.83		20	2	2 - 3.5	15
6	C.O. - Outlet	8	360	2880		6.26		20	2	2 - 3.5	15
7	Hand Dryer	2	1000	2000	8.70			20	2	2 - 3.5	15
8	Hand Dryer	2	1000	2000	8.70			20	2	2 - 3.5	15
9	Hand Dryer	2	1000	2000			8.70	20	2	2 - 3.5	15
10	Hand Dryer	2	1000	2000			8.70	20	2	2 - 3.5	15
11	Hand Dryer	2	1000	2000		8.70		20	2	2 - 3.5	15
12	Spare			1000		4.35		20	2		
Total Connected Loads					28.36	21.14	26.8				
Computations : I = 28.36 x 1.73 @ 80% Demand Factor = 49.06 Amperes					Use: 3 - 14.0 mm ² THHN 1 - 8.0 mm ² Ground			Use : 25 mm Ø		Circuit Breaker : 60AT, 3P, 230 V MCCB	

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		DATE:					

SCHEDULE OF LOADS											
PPAC - A (Power Panel Air Con)											
Mounting : Surface Mounted											
Ckt. No.	Load Description	HP	Watts/H P	Total Watts	Phase Connection			Circuit Breaker		Wire MM²	Conduit MM
					AB	BC	CA	AT	P		
1	Split Type A/C	2.5	746	1865	8.11			30	2	2 - 5.5	20
2	Split Type A/C	2.0	746	1865	6.49			30	2	2 - 5.5	20
3	Split Type A/C	2.0	746	1865			8.11	30	2	2 - 5.5	20
4	Split Type A/C	2.0	746	1492			6.49	30	2	2 - 5.5	20
5	Split Type A/C	2.5	746	1865		8.11		30	2	2 - 5.5	20
6	Split Type A/C	2.0	746	1492		6.49		30	2	2 - 5.5	20
7	Split Type A/C	2.5	746	1865	8.11			30	2	2 - 5.5	20
8	Split Type A/C	2.5	746	1865	8.11			30	2	2 - 5.5	20
9	Split Type A/C	2.5	746	1865			8.11	30	2	2 - 5.5	20
10	Split Type A/C	2.5	746	1865			8.11	30	2	2 - 5.5	20
11	Spare					8.11		30	2		
12	Spare					8.11		30	2		
Total Connected Loads					30.82	22.71	30.82				
Computations :				Use:			Use :		Circuit Breaker :		
I = 30.82 + (8.11 x 0.25) x 1.73 @ 100% Demand Factor				3 - 30 mm² THHN			32 mm Ø		70 AT, 3P, 230 V		
= 56.83 Amperes				1 - 8.0 mm² Ground					MCCB		

SCHEDULE OF LOADS											
PPAC - B (Power Panel Air Con)											
Mounting : Surface Mounted											
Ckt. No.	Load Description	Capacity	Watts/H P	Total Watts	Phase Connection			Circuit Breaker		Wire MM²	Conduit MM
					AB	BC	CA	AT	P		
1	Split Type A/C	2.5Hp	746	1865	8.11			30	2	2 - 5.5	20
2	Split Type A/C	2.5Hp	746	1865	8.11			30	2	2 - 5.5	20
3	Split Type A/C	2.5Hp	746	1865			8.11	30	2	2 - 5.5	20
4	Split Type A/C	2.5Hp	746	1865			8.11	30	2	2 - 5.5	20
5	Split Type A/C	2.5Hp	746	1865		8.11		30	2	2 - 5.5	20
6	Split Type A/C	2.5Hp	746	1865		8.11		30	2	2 - 5.5	20
7	Spare			1865	8.11			30	2		
8	Spare			1865			8.11	30	2		
Total Connected Loads					24.33	16.22	24.33				
Computations :				Use:			Use:		Circuit Breaker :		
I = 24.33 + (8.11 x 0.25)x 1.73 @ 100% Demand Factor				3 - 22mm² THHN			32 mm Ø		60AT, 3P, 230 V		
= 45.60 Amperes				1 - 8.0 mm² Ground					MCCB		

SCHEDULE OF LOADS											
DP - A (Distribution Panel)											
Mounting : Surface Mounted											
CKT. No	Load Description	Watts	Total Watts	Volts	Phase Connection			Circuit Breaker		Wire MM²	Conduit MM
				V	AB	BC	CA	AT	P		
1	LP - A			220	19.13	18.27	19.13	60	3	3 - 14	25
2	PP - A			220	26.79	21.32	28.36	60	3	3 - 14	25
3	PPAC - A			220	30.82	22.71	30.82	60	3	3 - 14	32
4	Score Board Panel			220	6.52	6.52	6.52	60	3	3 - 14	25
5	Space			220				50	3		
6	Space			220				50	3		
Total Connected Loads					83.26	68.82	84.83				
Computations :					Use:			Use:		Circuit Breaker :	
I = 84.83 + (8.11 x 0.25) x 1.73 @ 80% D .Factor					3 - 80 mm² THHN			50 mm Ø		200 AT, 3P, 230 V	
= 120.21 Amperes					1 - 30 mm² Ground Wire					MCCB	

SCHEDULE OF LOADS											
DP - B (Distribution Panel)											
Mounting : Surface Mounted											
CKT. No	Load Description	Watts	Total Watts	Volts	Phase Connection			Circuit Breaker		Wire MM²	Conduit MM
				V	AB	BC	CA	AT	P		
1	LP - B			220	15.22	16.09	19.13	60	3	3 - 14	25
2	PP - B			220	28.36	21.14	26.80	60	3	3 - 14	25
3	PPAC - B			220	24.33	16.22	24.33	60	3	3 - 22	32
4	Score Board Panel			220	6.52	6.52	6.52	60	3	3 - 14	25
5	Space			220				50	3		
6	Space			220				50	3		
Total Connected Loads					74.43	59.97	76.78				
Computations :					Use :			Use:		Circuit Breaker :	
I = 76.78 + (8.11 x 0.25) x 1.73 @ 80% Demand Factor					3 - 80 mm2, THHN			50 mm Ø		200 AT, 3P, 230 V	
= 109.07 Amperes					1 - 30 mm2 Ground					MCCB	

SCHEDULE OF LOADS											
EMDP - Emergency Main Distribution Panel											
Mounting : Floor Standing											
CKT. No	Load Description	HP	FLA	Voltage	Phase Connection			Circuit Breaker		Wire MM²	Conduit MM
				V	AB	BC	CA	AT	P		
1	DP-A			220	83.26	68.82	84.83	200	3	3 - 80	50
2	DP - B			220	74.43	59.97	76.78	200	3	3 - 80	50
3	MDB			220	146.00	155.60	155.60	500	3	3 - 250	80
4	Jockey Pump	5	16	220	16.00	16.00	16.00	40	3	3 - 5.5	20
5	SP - Sewage Pump	5	16	220	16.00	16.00	16.00	40	3	3 - 5.5	20
6	LP - Power House			220	17.39	17.39	17.39	40	3	3 - 8.0	20
7	(Fire Pump)	36 - 50	126	220				300	3	3 - 80	50
Total Connected Loads					353.08	333.78	366.6				
Computations :					Use:			Use:		Circuit Breaker :	
I = 366.6 x 1.73 @ 80% Demand Factor					2 sets 3 250 mm² THHN			2 - 80 mm Ø		800 AT, 3P, 230 V	
= 634.22 Amperes					2 - 50 mm² Ground Wire					MCCB	

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SCHEDULE OF LOADS											
Chiller Pumps Panel :				Mounting : Floor Standing							
CKT. No	Load Description	KW	FLA	Volts	3 Phase			Circuit Breaker		Wire	Conduit
				V		A		AT	P	MM²	MM
1	CHWP - 1	11	39	220	39			70	3	3 - 14	25
2	CHWP - 2	11	39	220	39			70	3	3 - 14	25
3	CHWP - 3	11	39	220	39			70	3	3 - 14	25
4	COWP - 1	11	39	220	39			70	3	3 - 14	25
5	COWP - 2	11	39	220	39			70	3	3 - 14	25
6	CTWP - 1	11	39	220	39			70	3	3 - 14	25
7	CTWP - 2	11	39	220	39			70	3	3 - 14	25
8	Spare			220							
Total Connected Loads						273					
Computations : I = (39 x 1.25) + (39 x 6) @ 100% Demand Factor = 282.75 Amperes					Use: 1 set 3-200 mm² THHN 1 -50 mm² Ground Wire			Use : 1 -80 mm		Circuit Breaker : 700 AT, 3P, 230 V MCCB	

AHU - Panel (Typical : Zone 1 - 4)				Mounting : Surface Mounted							
CKT. No	Load Description	KW	FLA	Volts	3 Phase			Circuit Breaker		Wire	Conduit
				V		A		AT	P	MM²	MM
1	AHU - 1	18.5	63	220	63			150	3	3 - 22	32
2	AHU - 2	18.5	63	220	63			150	3	3 - 22	32
Total Connected Loads						128					
Computations : I = (63 x 1.25)+ 63 x @ 100% Demand Factor = 141.75 Amperes					Use: 1 set 3 - 80 mm² THHN 1 - 30mm² Ground Wire			Use: 1- 50 mm Ø		Circuit Breaker : 300 AT, 3P, 230 V MCCB	

SCHEDULE OF LOADS											
Chiller - 1				Mounting : Floor Standing							
CKT. No	Load Description	KW	FLA	Volts	3 Phase			Circuit Breaker		Wire	Conduit
				V		A		AT	P	MM²	MM
1	Chiller 250 TR	171	426	220	426			1200	3	6 - 250	80
Total Connected Loads						426					
Computations : I = (426 x 1.25) @ 100% Demand Factor = 532.50 Amperes					Use: 2 sets 3 - 250mm² THHN 2 - 50mm² Ground Wire			Use: 2 - 80mm Ø		Circuit Breaker : 1200 AT, 3P, 230 V MCCB	

SCHEDULE OF LOADS											
Chiller - 2				Mounting : Floor Standing							
CKT. No	Load Description	KW	FLA	Volts	3 Phase			Circuit Breaker		Wire	Conduit
				V		A		AT	P	MM²	MM
1	Chiller	171	426	220		426		1200	3	6 - 250	80
Total Connected Loads						426					
Computations : I = (426 x 1.25) @100% Demand Factor = 532.50 Amperes					Use: 2 sets 3 - 250mm² THHN 2 - 50mm² Ground Wire			Use: 2 - 80mm Ø		Circuit Breaker : 1200AT, 3P, 230 V MCCB	

SCHEDULE OF LOADS											
LVSG - 1 (Low Voltage Switchgear)				Mounting : Floor Standing							
CKT. No	Load Description	Nos.	KW	FLA	3 Phase			Circuit Breaker		Wire	Conduit
				A		A		AT	P	MM²	MM
1	Chiller - 1	1	171	426	426.00			1,200	3	6 - 250	80
2	AHU - 1 & 2	2	18.5	63	126.00			300	3	3 - 80	50
3	AHU - 7 & 8	2	18.5	63	126.00			300	3	3 - 80	50
4	EMDP - Panel	1			366.60			800	3	6 - 250	80
5	Spare							300	3		
6	Spare							300	3		
Total Connected Loads						1044.6					
Computations : I = 1044.60 Amps + (426 x 1.25) @ 80% Demand Factor = 1577.10 Amperes					Use: Existing Wires / Cable			Use: Existing Conduit		Circuit Breaker : 3000 AT, 3P, 230 V ACB	

SCHEDULE OF LOADS											
LVSG - 2 (Low Voltage Switchgear)				Mounting : Floor Standing							
CKT. No	Load Description	Nos.	KW	FLA	3 Phase			Circuit Breaker		Wire	Conduit
				A		A		AT	P	MM²	MM
1	Chiller - 2	1	171	426	426.00			1200	3	6 - 250	80
2	AHU - 3 & 4	2	18.5	63	126.00			300	3	3 - 80	50
3	AHU - 5 & 6	2	18.5	63	126.00			300	3	3 - 80	50
4	Chiller Pumps	7	11	39	273.00			700	3	3 - 200	80
5	Spare							300	3		
6	Spare							300	3		
Total Connected Loads						951.00					
Computations : I = 951 Amps + (426 x 1.25) @ 80% Demand Factor = 1483.50 Amperes					Use: Existing Wires / Cables			Use: Existing Conduit		Circuit Breaker : 3000 AT, 3P, 230 V ACB	

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 1722
		CHECK BY:					
		DATE:					

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1–A26, A59–A84	--	11.0	1	TLC–LED–400	0.40 kW	A
A27–A30, A33–A36, A39–A46, A49–A52, A55–A58	--	13.5	1	TLC–LED–400	0.40 kW	A
A31–A32, A37–A38, A47–A48, A53–A54	--	13.5	2	TLC–LED–400	0.80 kW	A
S1–S8	--	13.5	1	TLC–LED–400	0.40 kW	S
92			100		40.00 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A		36.8 kW	92
S		3.2 kW	8

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC–LED–400	LED 5700K – 90 CRI	400W	35,340	>81,000	>81,000	>81,000	100

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Min/Max	Min/Ave		
01 Basketball Field	Horizontal Illuminance	2158	1739	2493	0.70	0.81	A	92
02 Basketball Field	North Illuminance	1519	1061	1697	0.63	0.70	A	92
02 Basketball Field	South Illuminance	1519	1061	1697	0.63	0.70	A	92
03 Auditorium	Horizontal Illuminance	45.8	10	119	0.08	0.22	S	8

PROJECT SUMMARY

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 18 22
		CHECK BY:					
		DATE:					

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
52	A1-A26 A59-A84		11m	11m	TLC-LED-400	1	1	0
24	A27-A30 A33-A36 A39-A46 A49-A52 A55-A58		13.5m	13.5m	TLC-LED-400	1	1	0
8	A31-A32 A37-A38 A47-A48 A53-A54		13.5m	13.5m	TLC-LED-400	2	2	0
84	TOTALS					92	92	0

GRID SUMMARY

Name: 01 Basketball Field
Size: 32m x 19m
Spacing: 1.0m x 1.0m
Height: 0.0m above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL LUX

Entire Grid
Scan Average: 2157.61
Maximum: 2493
Minimum: 1739
Min / Avg: 0.81
Min / Max: 0.70
UG (adjacent pts): 1.07
CU: 0.41
No. of Points: 608

LUMINAIRE INFORMATION

Color / CRI: 5700K - 90 CRI
Luminaire Output: 35,340 lumens
No. of Luminaires: 92
Total Load: 36.8 kW

Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000
Reported per TM-21-11. See luminaire datasheet for details.			

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your ---

Warranty document and includes a 0.95 dirt depreciation factor.

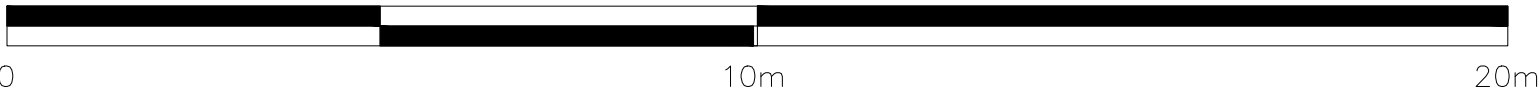
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements:Refer to Amperage Draw Chart and/or the"Control System Summary" for electrical sizing.

Installation Requirements:Results assume 73% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

ILLUMINATION SUMMARY

SCALE 1: 200



OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 1922
		CHECK BY:					
		DATE:					

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
52	A1-A26 A59-A84		11m	11m	TLC-LED-400	1	1	0
24	A27-A30 A33-A36 A39-A46 A49-A52 A55-A58		13.5m	13.5m	TLC-LED-400	1	1	0
8	A31-A32 A37-A38 A47-A48 A53-A54		13.5m	13.5m	TLC-LED-400	2	2	0
84	TOTALS					92	92	0

GRID SUMMARY	
Name:	02 Basketball Field
Size:	32m x 19m
Spacing:	1.0m x 1.0m
Height:	1.5m above grade

ILLUMINATION SUMMARY

MAINTAINED VERTICAL LUX: 15° Tilt

Entire Grid

Scan Average:

1518.54

Maximum:

1697

Minimum:

1061

Min / Avg:

0.70

Min / Max:

0.63

UG (adjacent pts):

1.09

CU:

0.41

No. of Points:

608

LUMINAIRE INFORMATION

Color / CRI:

5700K - 90 CRI

Luminaire Output:

35,340 lumens

No. of Luminaires:

92

Total Load:

36.8 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000

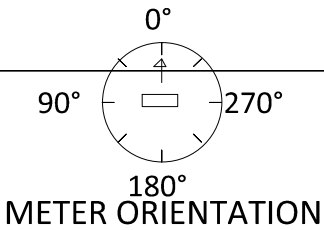
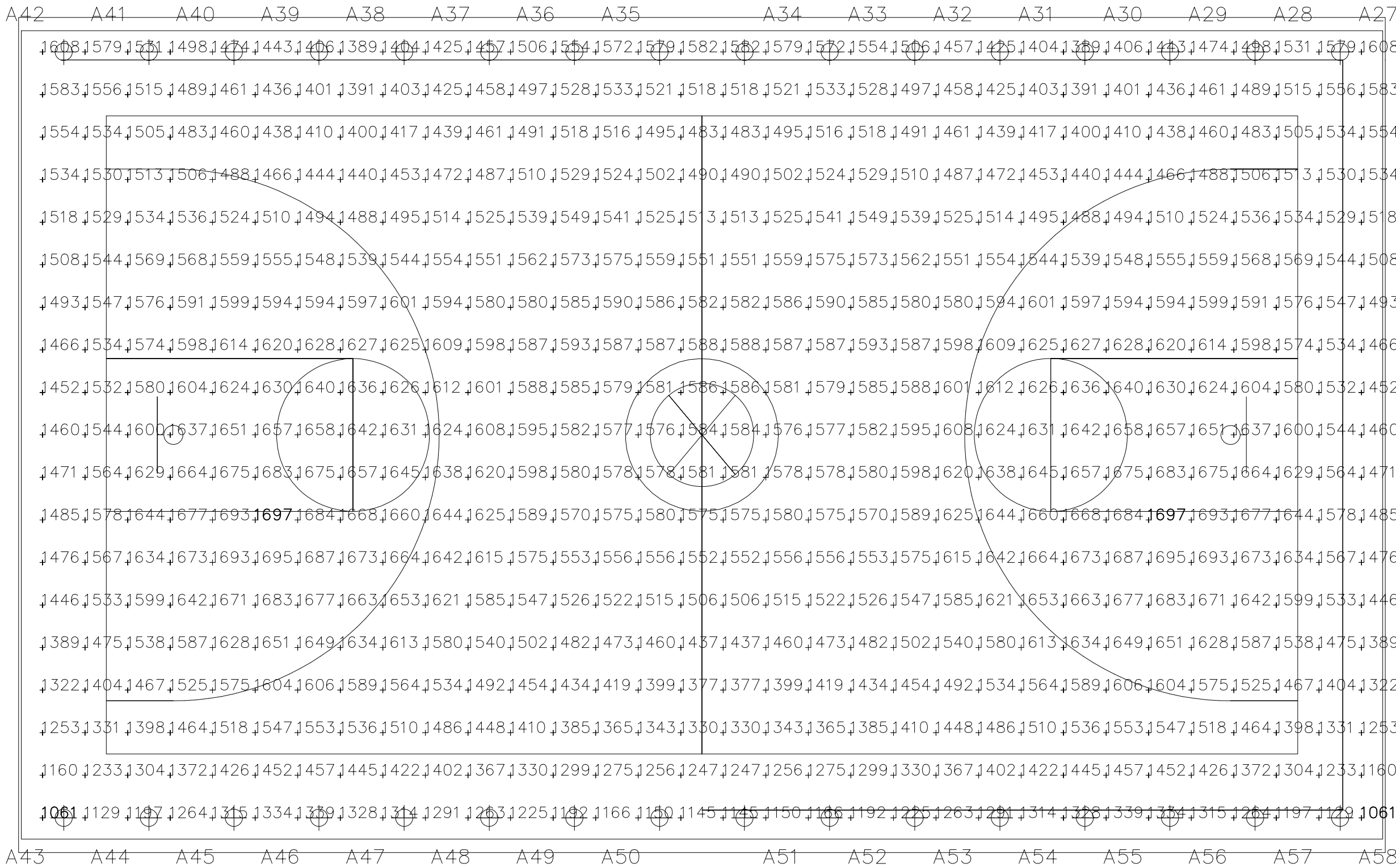
Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your ---
Warranty document and includes a 0.95 dirt depreciation factor.

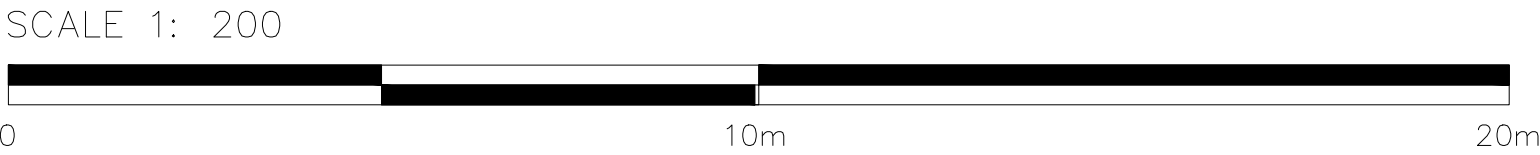
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements:Refer to Amperage Draw Chart and/or the"**Control System Summary**" for electrical sizing.

Installation Requirements:Results assume 73% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



ILLUMINATION SUMMARY

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 20 22
		CHECK BY:					
		DATE:					

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
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24	A27-A30 A33-A36 A39-A46 A49-A52 A55-A58		13.5m	13.5m	TLC-LED-400	1	1	0
8	A31-A32 A37-A38 A47-A48 A53-A54		13.5m	13.5m	TLC-LED-400	2	2	0
84	TOTALS					92	92	0

GRID SUMMARY

Name: 02 Basketball Field
Size: 32m x 19m
Spacing: 1.0m x 1.0m
Height: 1.5m above grade

ILLUMINATION SUMMARY

MAINTAINED VERTICAL LUX: 15° Tilt
Entire Grid

Scan Average: 1518.54
Maximum: 1697
Minimum: 1061
Min / Avg: 0.70
Min / Max: 0.63
UG (adjacent pts): 1.09
CU: 0.41
No. of Points: 608

LUMINAIRE INFORMATION

Color / CRI: 5700K - 90 CRI
Luminaire Output: 35,340 lumens
No. of Luminaires: 92
Total Load: 36.8 kW

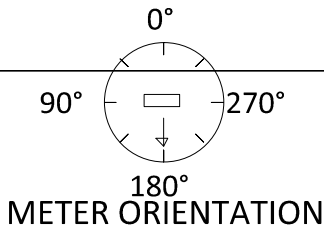
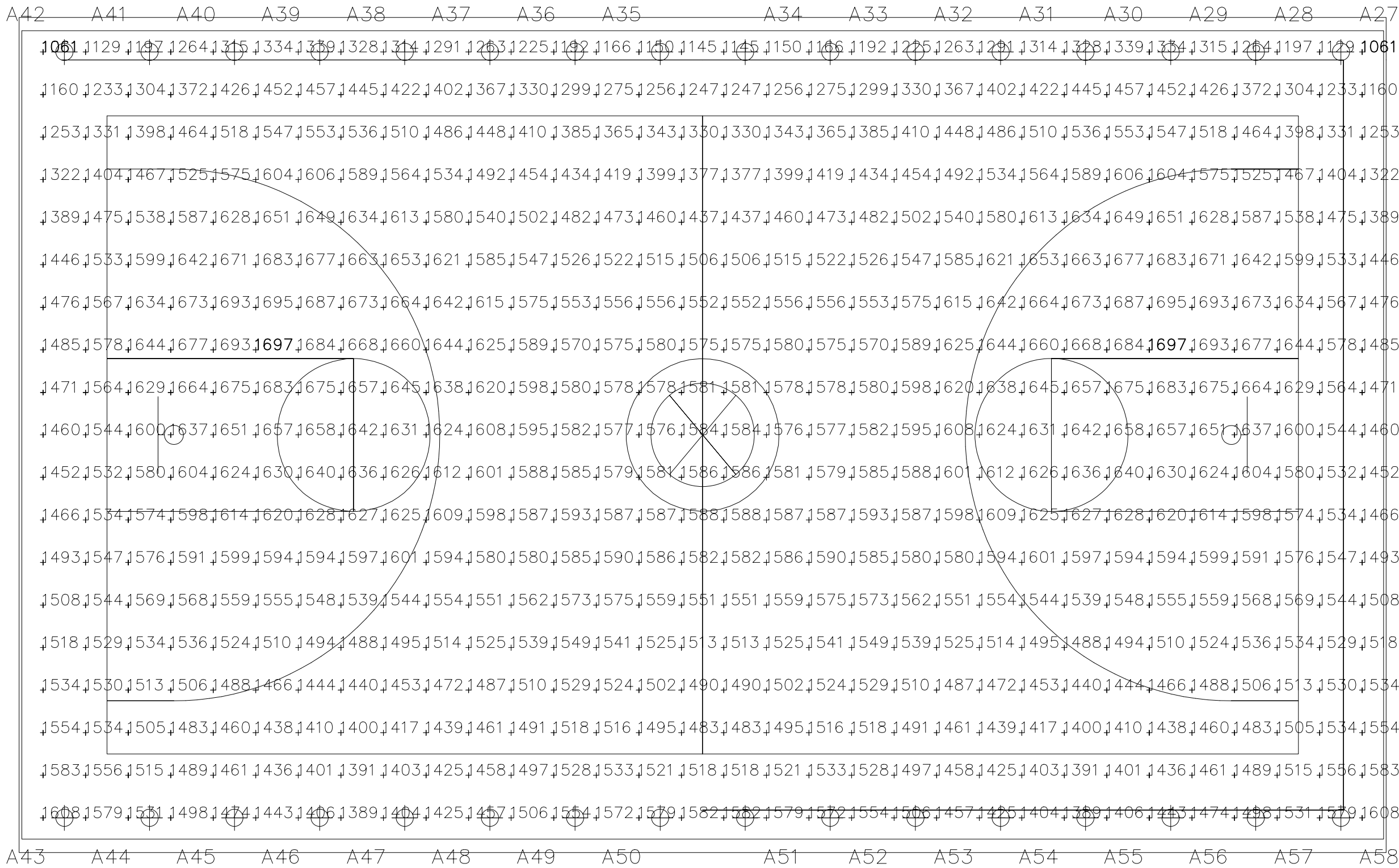
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000
Reported per TM-21-11. See luminaire datasheet for details.			

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your ---
Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements:Refer to Amperage Draw Chart and/or the"Control System Summary" for electrical sizing.

Installation Requirements:Results assume 73% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

SCALE 1: 200



ILLUMINATION SUMMARY

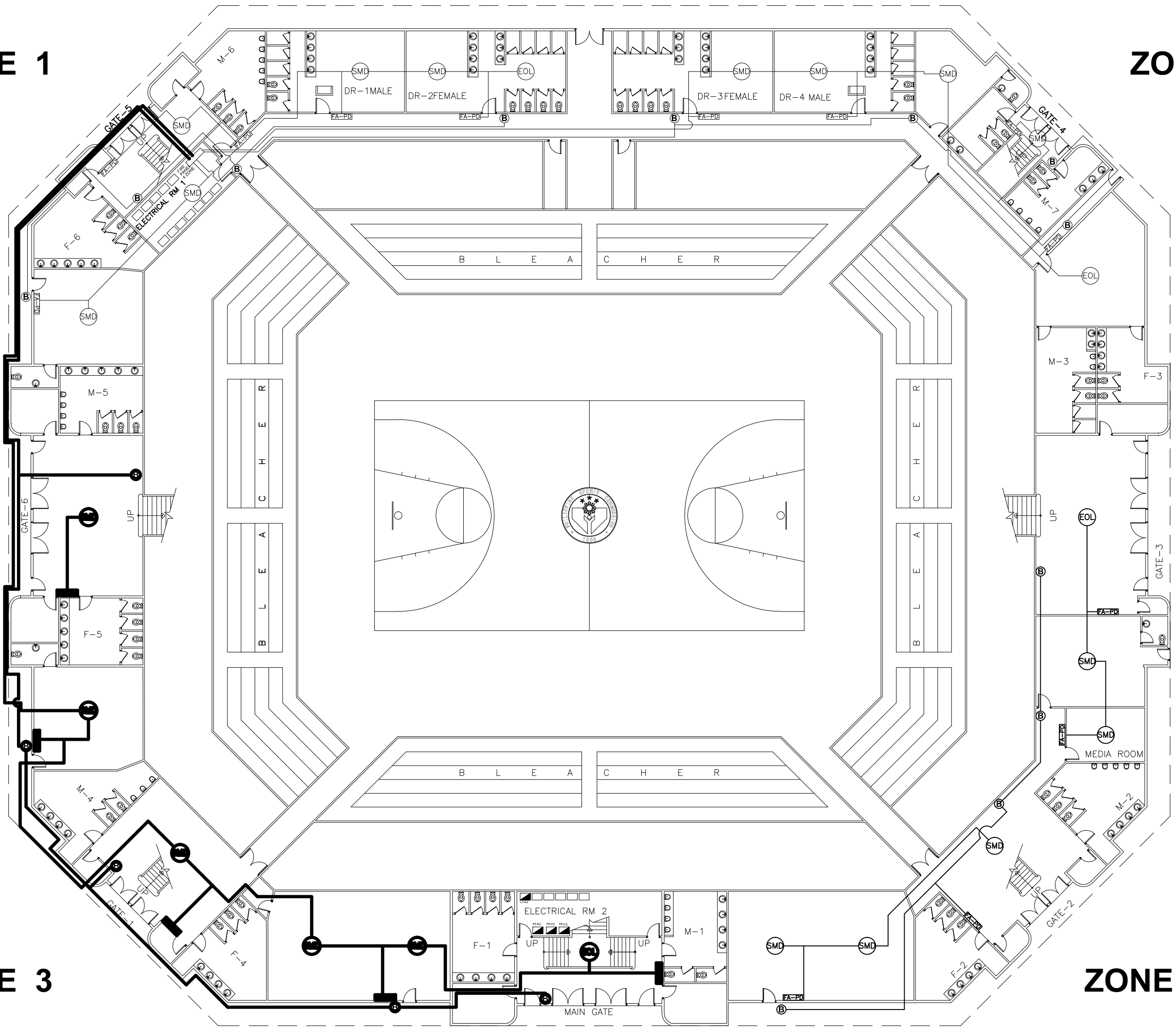
OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	E 2122
		CHECK BY:					
		DATE:					

ZONE 1

ZONE 2

ZONE 3

ZONE 4



GROUND FLOOR PLAN - FIRE ALARM SYSTEM LAYOUT

SCALE

1:200

LEGEND :

- 6



SMOKE DETECTOR ZONE 1
- 5



FIRE ALARM PULL DOWN ZONE 1
- 4



BELL ZONE 1
- 5



SMOKE DETECTOR ZONE 2
- 4



FIRE ALARM PULL DOWN ZONE 2
- 4



BELL ZONE 2
- 6



SMOKE DETECTOR ZONE 1
- 5



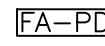
FIRE ALARM PULL DOWN ZONE 1
- 5



BELL ZONE 1
- 6



SMOKE DETECTOR ZONE 2
- 4



FIRE ALARM PULL DOWN ZONE 2
- 4



BELL ZONE 2



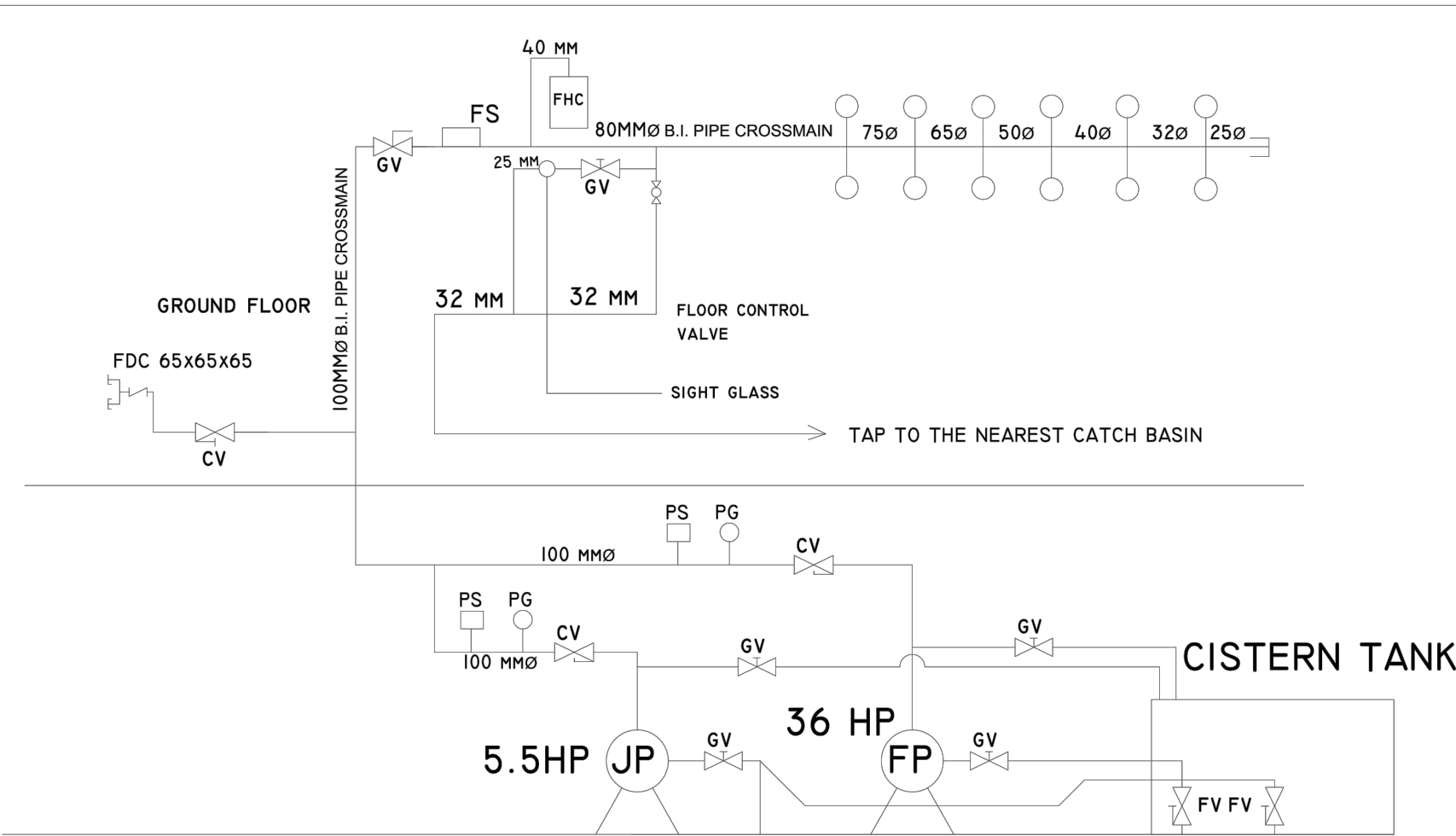
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 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	FA 2222
		CHECK BY:					
		DATE:					

GENERAL NOTES

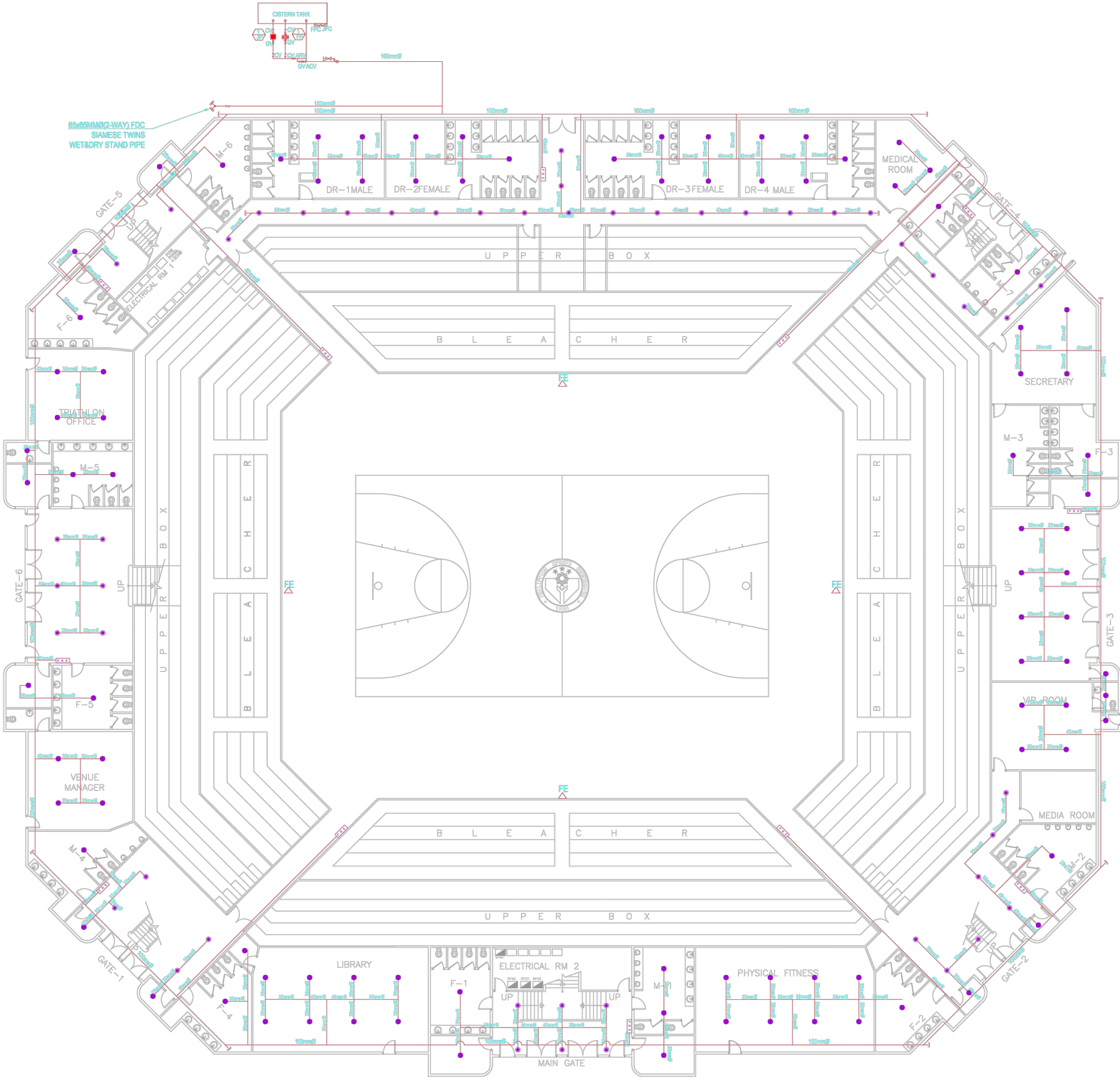
- 1. ALL WORKS HEREIN INCLUDED SHALL BE EXECUTED ACCORDING TO THE PROVISION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (USA) AND LOSS PREVENTION COUNCIL (UK).
- 2. THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL TRADE.
- 3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE EXACT LOCATION AND DIMENSIONS OF ALL REQUIRED FLOOR AND WALL OPENINGS.
- 4. THE EXACT LOCATION OF ALL SPRINKLER HEADS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING LAYOUTS AND SHALL BE SUBJECT TO BOTH THE ARCHITECTS AND FIRE PROTECTION ENGINEERS APPROVAL.
- 5. LOCATION AND MOUNTING OF FIRE HOSE CABINETS SHALL BE COORDINATED WITH ARCHITECTURAL FINISHES AND BE SUBJECT TO BOTH THE ARCHITECTS AND FIRE PROTECTION ENGINEERS APPROVAL.
- 6. SIZE OF RISER NIPPLE SHALL CONFORM TO PIPE SCHEDULE AS DELINEATED IN NFPA 13.
- 7. PIPE SUPPORTS, HANGERS AND BRACING SHALL BE OF THE APPROVED TYPE AND SHALL BE INDEPENDENT FROM CEILING AND DUCT SUPPORT.
- 8. ACCESS FOR CONTROL VALVES SHALL BE LOCATED AT COMMON AREAS.
- 9. ALL PIPES PASSING THRU WALLS AND FLOORS, PROVIDE PIPE SLEEVES. PIPE SLEEVE SHOULD BE PLASTIC, WATERPROOF HEAT RESISTANT CAULKING COMPOUND WITH OAKUM MASTIC PACKING.
- 10. PROVIDE PIPE HANGER @ EVERY 2 METERS , SWAY BRACE AND CLEVIS SUPPORT @ EVERY 12 METERS.
- 11. PROVIDE FLANGE CONNECTION EVERY 12 METERS AND ONE SIDE AT EVERY FITTING CONNECTION.

SCHEDULE OF EQUIPMENT

DESIGNATION	QUANTITY	TYPE	DRIVE	PUMP CHARACTERISTICS			MOTOR DATA		
				CAPACITY (GPM)	HEAD (PSI)	SPEED (RPM)	RATING (HP)	VOLTAGE	PHASE
FP	1	HORIZONTAL SPLIT CASE	MOTOR	400	100	SEE CURVE	36	440	3Ø
JP	1	VERTICAL IN-LINE	MOTOR	50	90	SEE CURVE	5.5	440	3Ø



SCHEMATIC DIAGRAM



OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINOY AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	FP 11
		CHECK BY:					
		DATE:					

EQUIPMENT SCHEDULE

PACKAGED WATER COOLED CHILLERS:

UNIT DESTINATION	QTY.	MODEL	TYPE	COOLING CAPACITY (TR)	EVAPORATOR PERFORMANCE DATA					CONDENSER PERFORMANCE DATA					MAXIMUM POWER INPUT (kW)	kW / TR	ELETRICAL CHARACTERISTICS			CONTROLLER TYPE	REFRIGERANT TYPE	REMARKS
					WATER FLOW (LPM)	ENTERING WATER TEMP. (°C)	LEAVING WATER TEMP. (°C)	MAX PD. (kPa)	PIPE CONN. INLET/OUTLET	WATER FLOW (LPM)	ENTERING WATER TEMP. (°C)	LEAVING WATER TEMP. (°C)	MAX PD. (kPa)	PIPE CONN. INLET/OUTLET			VOLTS	PHASE	HERTZ			
CH 1-2	2	KOPPEL KWS-300T3C	SEMI-HERMETIC SCREW COMPRESSOR	250	2520	12	7	71	168 mm	3150	30	35	61	168 mm	171	0.69	220	3	60	TOUCH SCREEN CONTROL PANEL	R134A	

AIR HANDLING UNITS:

UNIT DESTINATION	QTY	MODEL	LOCATION	TYPE / ARRANGEMENT	MOUNTING	SUPPLY AIR FLOW RATE (m³/h)	COOLING COIL DATA									FAN BLOWER DATA		MOTOR DATA RATING (kW)	ELETRICAL CHARACTERISTICS			AIR FILTER TYPE	REMARKS
							TOTAL COOLING CAP. (TR)	ENT. AIR DB/WB TEMP. (°C/°C)	LVG. AIR DB/WB TEMP. (°C/°C)	CHILLED WATER FLOW (LPM)	MAX. FACE VELOCITY (m/s)	ENTERING CHILLED WATER TEMP. (°C)	LEAVING CHILLED WATER TEMP. (°C)	MAX. WATER PRESSURE DROP (kPa)	CHILLED WATER PIPE CONN. INLET/OUTLET	TYPE	ESP. (Pa)		VOLTS	PHASE	HERTZ	PRE-FILTER	
AHU 1-8	8	KOPPEL KSDV-720T1C		VERTICAL, CABINET, DRAW THRU	FLOOR MOUNTED	45900	60	27/19	15.6/13.86	660	2.58	7	12	59.18	65	FORWARD CURVE	500	18.5	220	3	60	G3	

COOLING TOWERS:

UNIT DESTINATION	QTY.	MODEL	TYPE	COOLING TOWER DATA				NO. OF FANS	TOTAL POWER (kW)	ELETRICAL CHARACTERISTICS			CASING MATERIAL	FAN IMPELLER	REMARKS
				WATER FLOW RATES (LPM)	ENTERING WATER TEMP. (°C)	LEAVING WATER TEMP. (°C)	AMBIENT WB TEMP (°C)			VOLTS	PHASE	HERTZ			
CT 1-2	2	ROSEMEX ROD-842D	OPEN TYPE, CROSS FLOW INDUCED DRAFT	3150	35.0	30.4	27.0	1	11	220	3	60	2700 HOT DIP GALVANIZED STEEL	ALUMINUM ALLOY HOLLOW AIRFOIL BLADES	

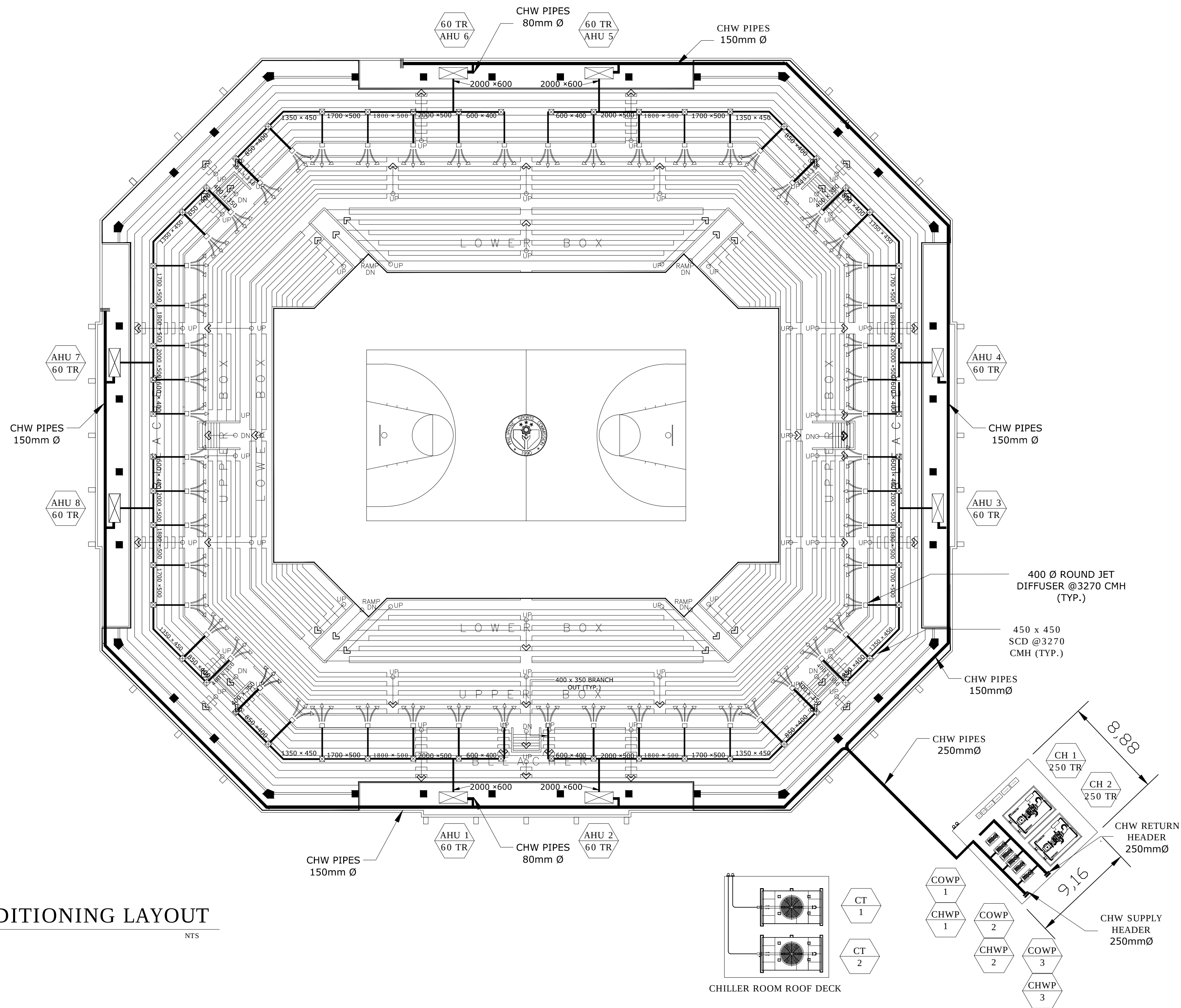
CHILLED WATER PUMPS:

UNIT DESTINATION	QTY	SERVICE	TYPE	WATER FLOW RATES (LPM)	TOTAL DYNAMIC HEAD (m.)	MAX. MOTOR SIZE (kW)	RPM	CONTROLLER TYPE	ELETRICAL CHARACTERISTICS			REMARKS
									VOLTS	PHASE	HERTZ	
CHWP 1-3	3	CHILLED WATER	END SUCTION CENTRIFUGAL PUMP	2520	17.2	11	1800	STANDARD CONTROL PANEL	220	3	60	EBARA BRAND

CONDENSER WATER PUMPS:

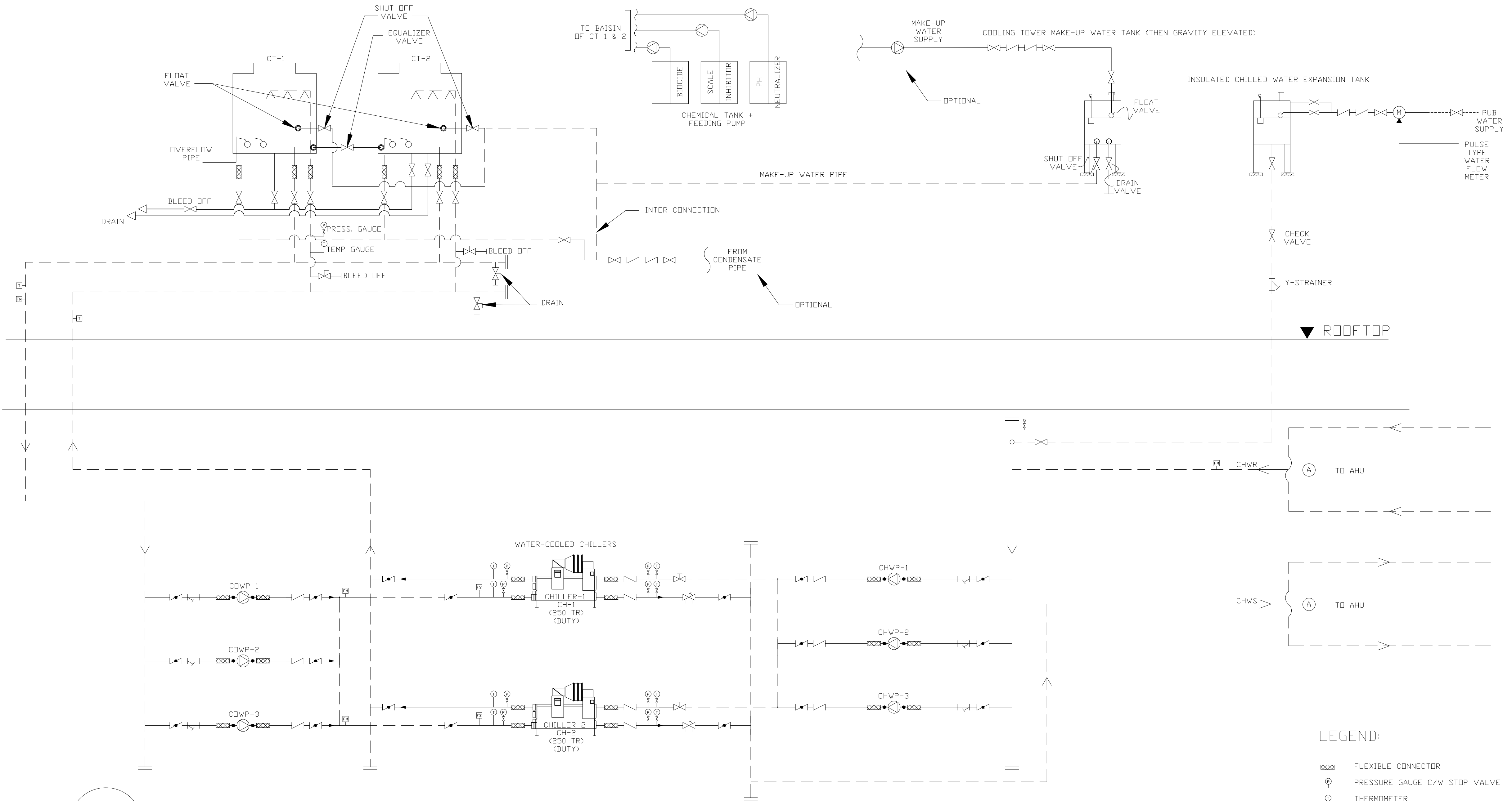
UNIT DESTINATION	QTY	SERVICE	TYPE	WATER FLOW RATES (LPM)	TOTAL DYNAMIC HEAD (m.)	MAX. MOTOR SIZE (kW)	RPM	CONTROLLER TYPE	ELETRICAL CHARACTERISTICS			REMARKS
									VOLTS	PHASE	HERTZ	
COWP 1-3	3	CONDENSER WATER	END SUCTION CENTRIFUGAL PUMP	3150	10	11	1800	STANDARD CONTROL PANEL	220	3	60	EBARA BRAND

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	<u>ENGR. PEDRO I. PINEDA JR.</u> HEAD - ENGINEERING UNIT	<u>DIR. MERLITA R. IBAY</u> DEPUTY EXECUTIVE DIRECTOR	<u>HON. WILLIAM I. RAMIREZ</u> CHAIRMAN	AS SHOWN	M 15
		CHECK BY:					
		DATE:					



A
M-2 AIRCONDITIONING LAYOUT
SCALE: NTS

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINOY AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY: CHECK BY: DATE:	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	M 25



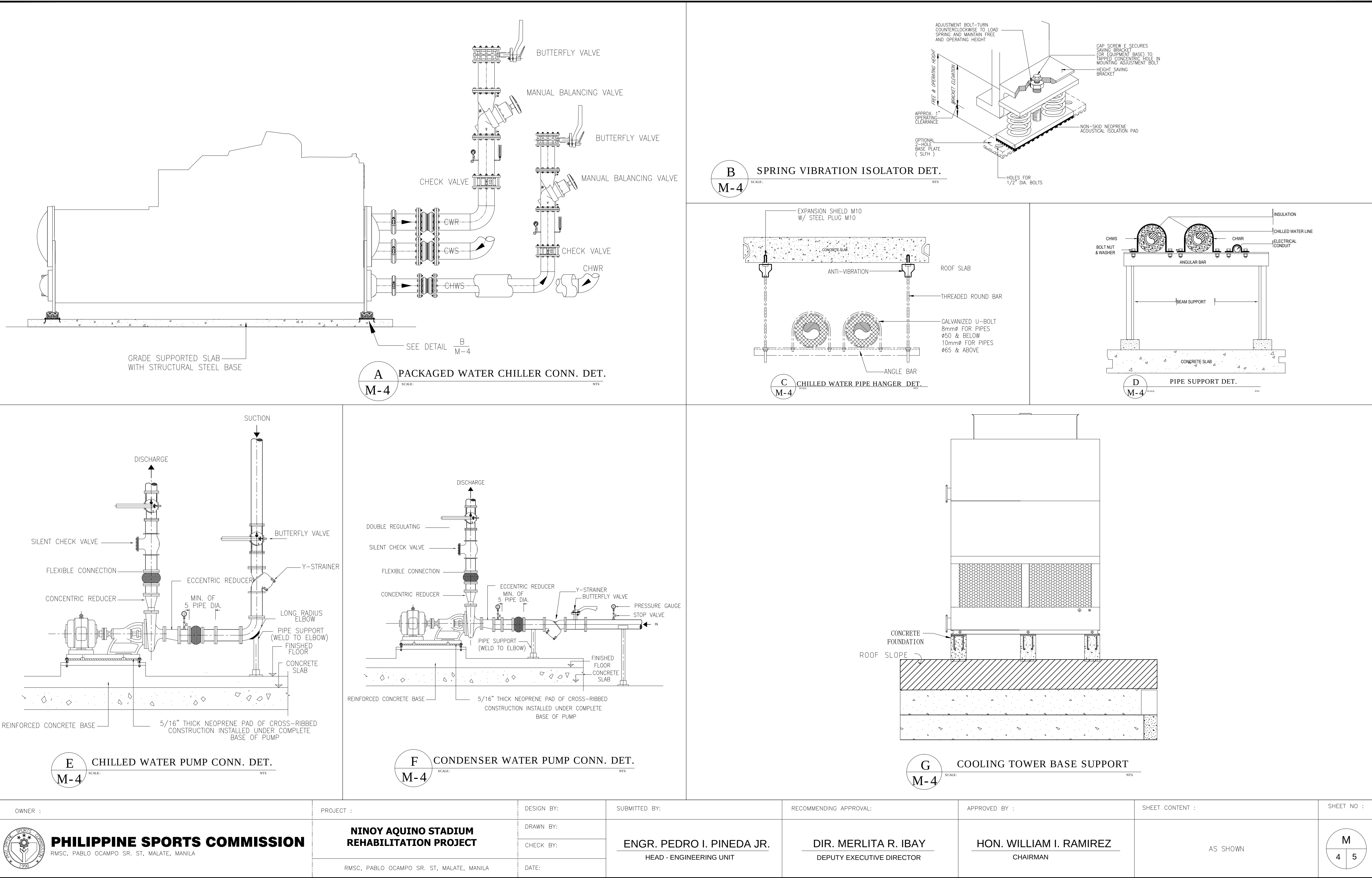
A
M-2 AIRCONDITIONING LAYOUT
SCALE: NTS

A
M-3 CHILLED WATER SYSTEM PIPING SCHEMATIC DIAGRAM
SCALE: NTS

LEGEND:

- FLEXIBLE CONNECTOR
- PRESSURE GAUGE C/W STOP VALVE
- THERMOMETER
- MANUAL BALANCING VALVE
- GATE VALVE
- CHECK VALVE
- FLOW SWITCH
- MANUAL BUTTERFLY VALVE
- WYE STRAINER

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	M 3 5
		CHECK BY:					
		DATE:					





OWNER :

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

PROJECT :

**NINYO AQUINO STADIUM
REHABILITATION PROJECT**

DESIGN BY:

DRAWN BY:

CHECK BY:

DATE:

SUBMITTED BY:

ENGR. PEDRO I. PINEDA JR.
HEAD - ENGINEERING UNIT

RECOMMENDING APPROVAL:

DIR. MERLITA R. IBAY
DEPUTY EXECUTIVE DIRECTOR

APPROVED BY :

HON. WILLIAM I. RAMIREZ
CHAIRMAN

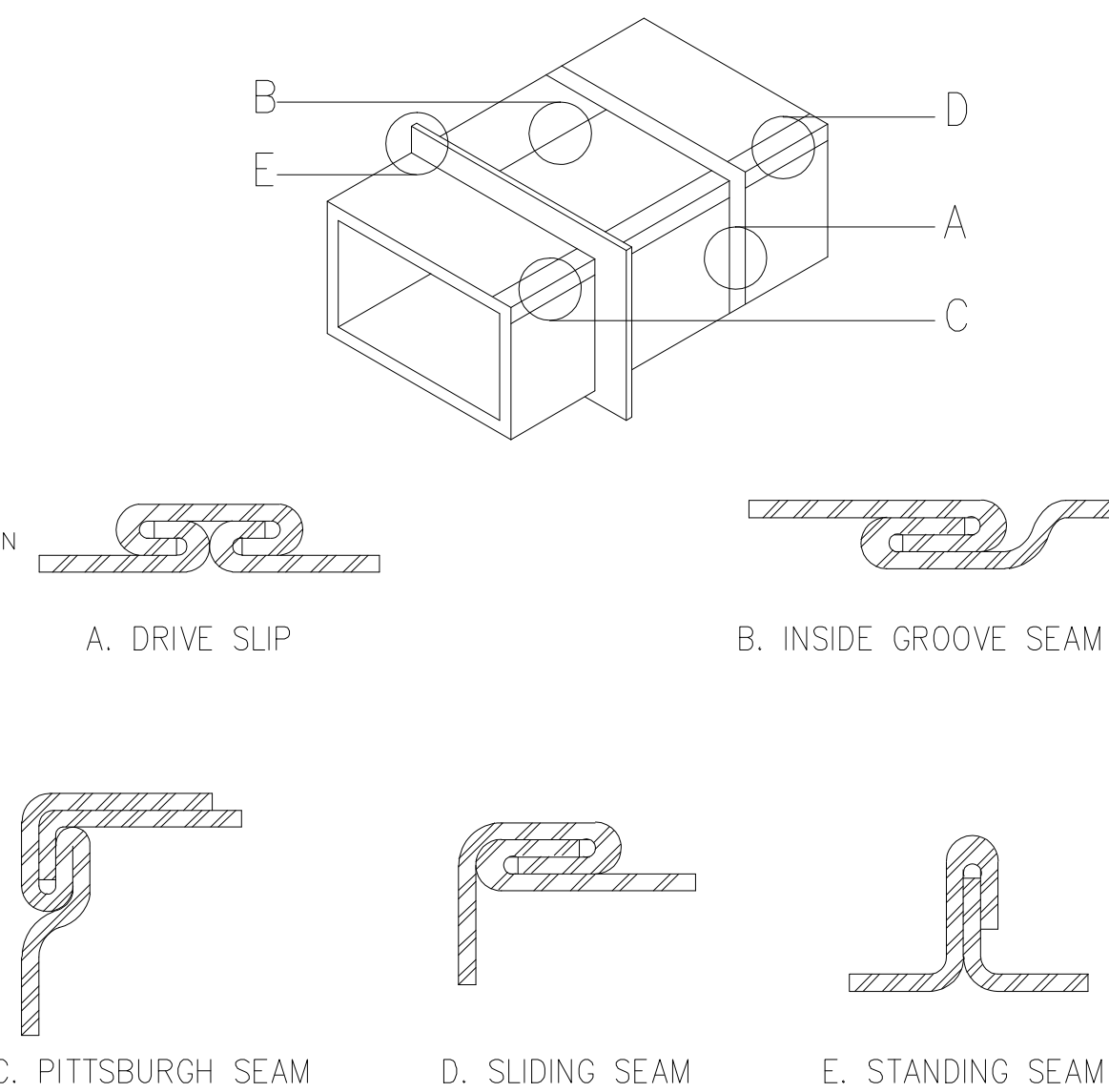
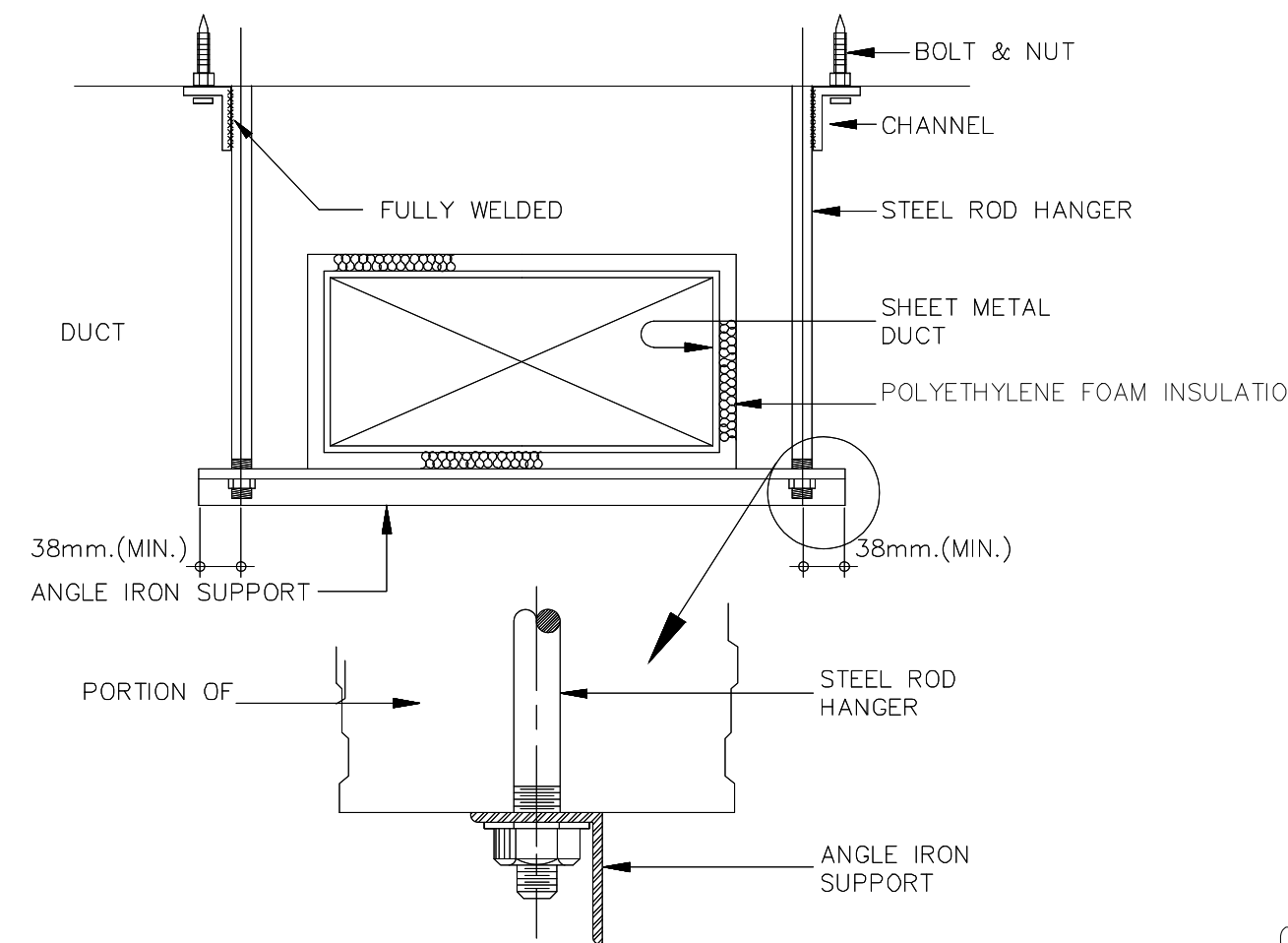
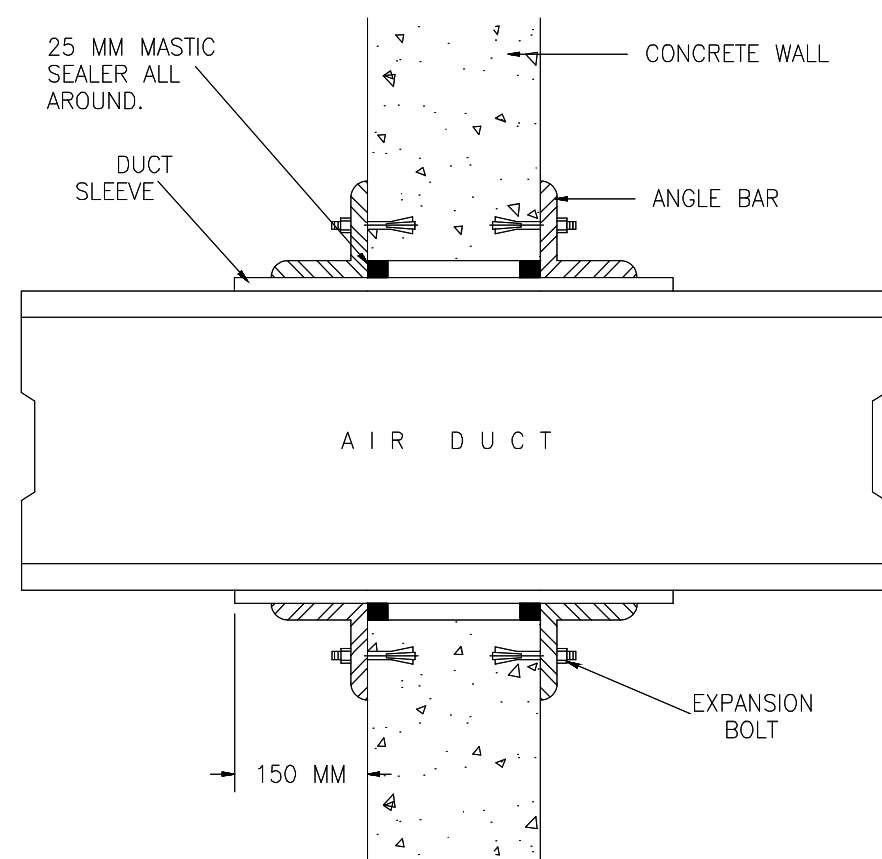
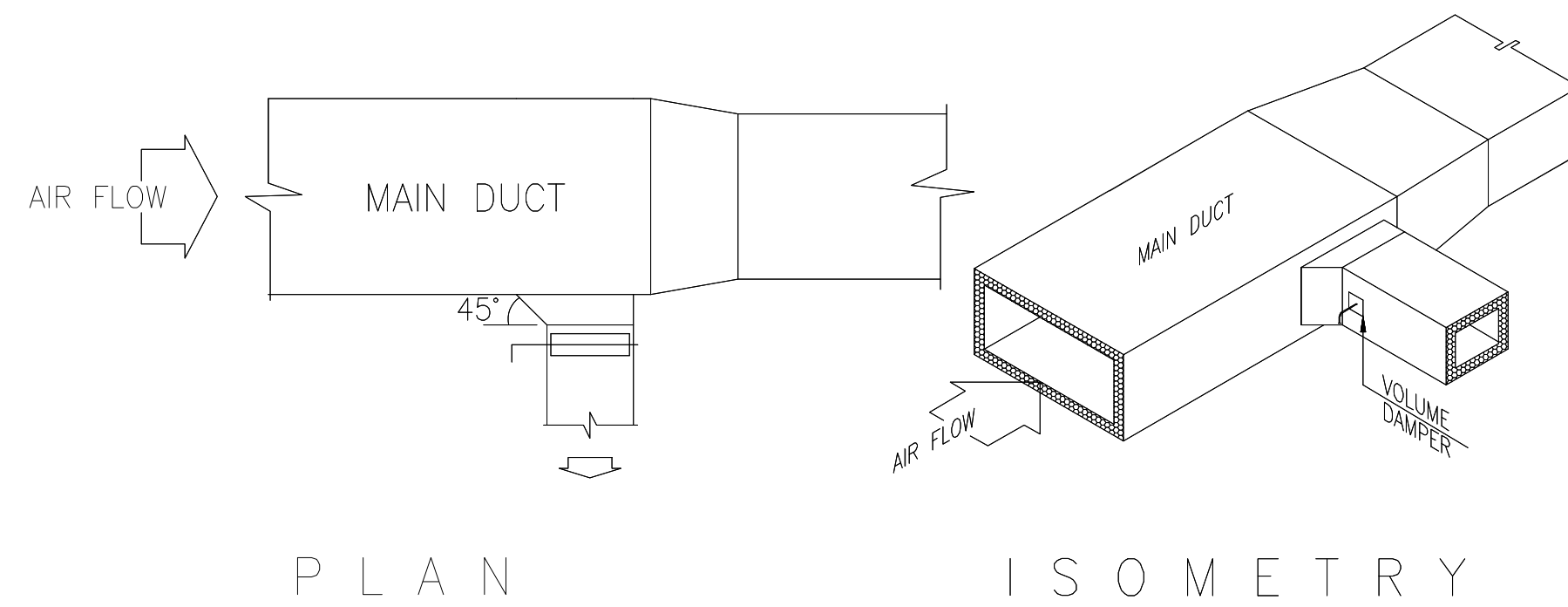
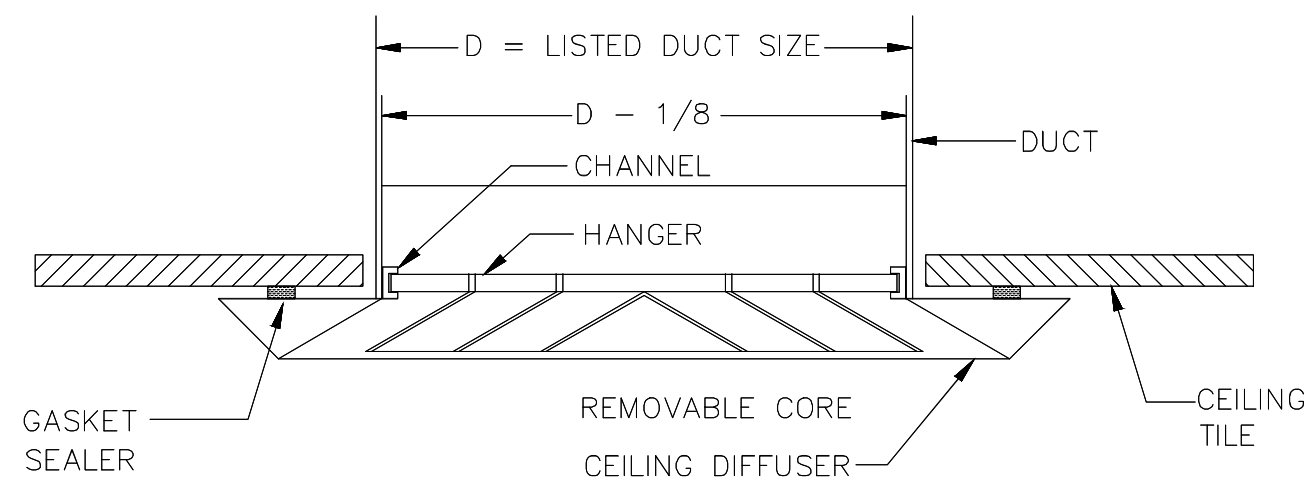
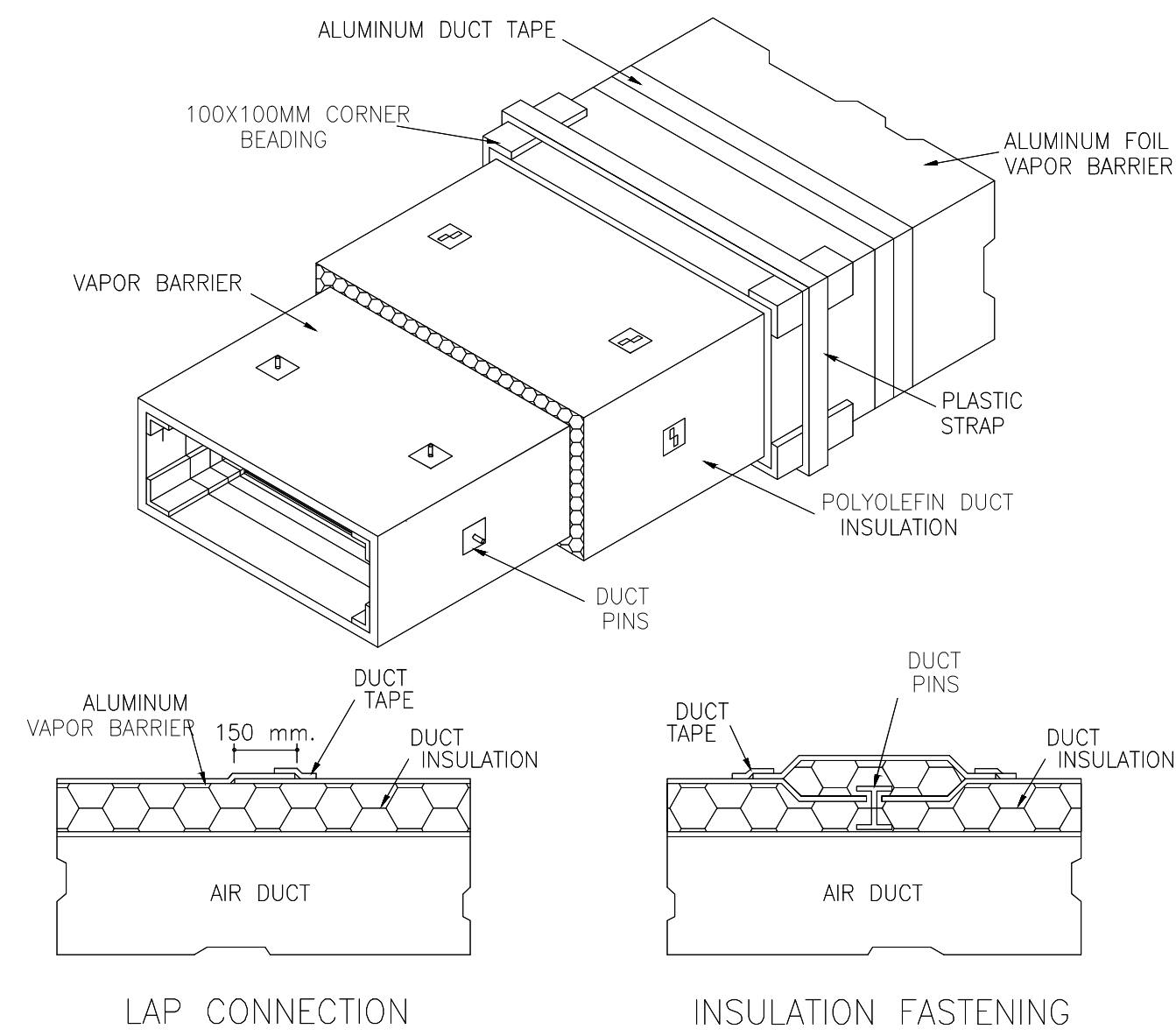
SHEET CONTENT :

AS SHOWN

SHEET NO :

M

45



DIMENSION LONGEST SIDE MM	SHEET METAL GAGE (ALL 4 SIDES)
UP TO 450	GAGE # 24
475 TO 750	GAGE # 24
775 TO 1050	GAGE # 22
1075 TO 1350	GAGE # 22
1375 TO 1500	GAGE # 20
1525 TO 2150	GAGE # 20
2175 TO 2450	GAGE # 18
OVER 2450	GAGE # 18

OWNER :	PROJECT :	DESIGN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY :	SHEET CONTENT :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	NINYO AQUINO STADIUM REHABILITATION PROJECT RMSC, PABLO OCAMPO SR. ST, MALATE, MANILA	DRAWN BY:	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	M 55
		CHECK BY:					
		DATE:					