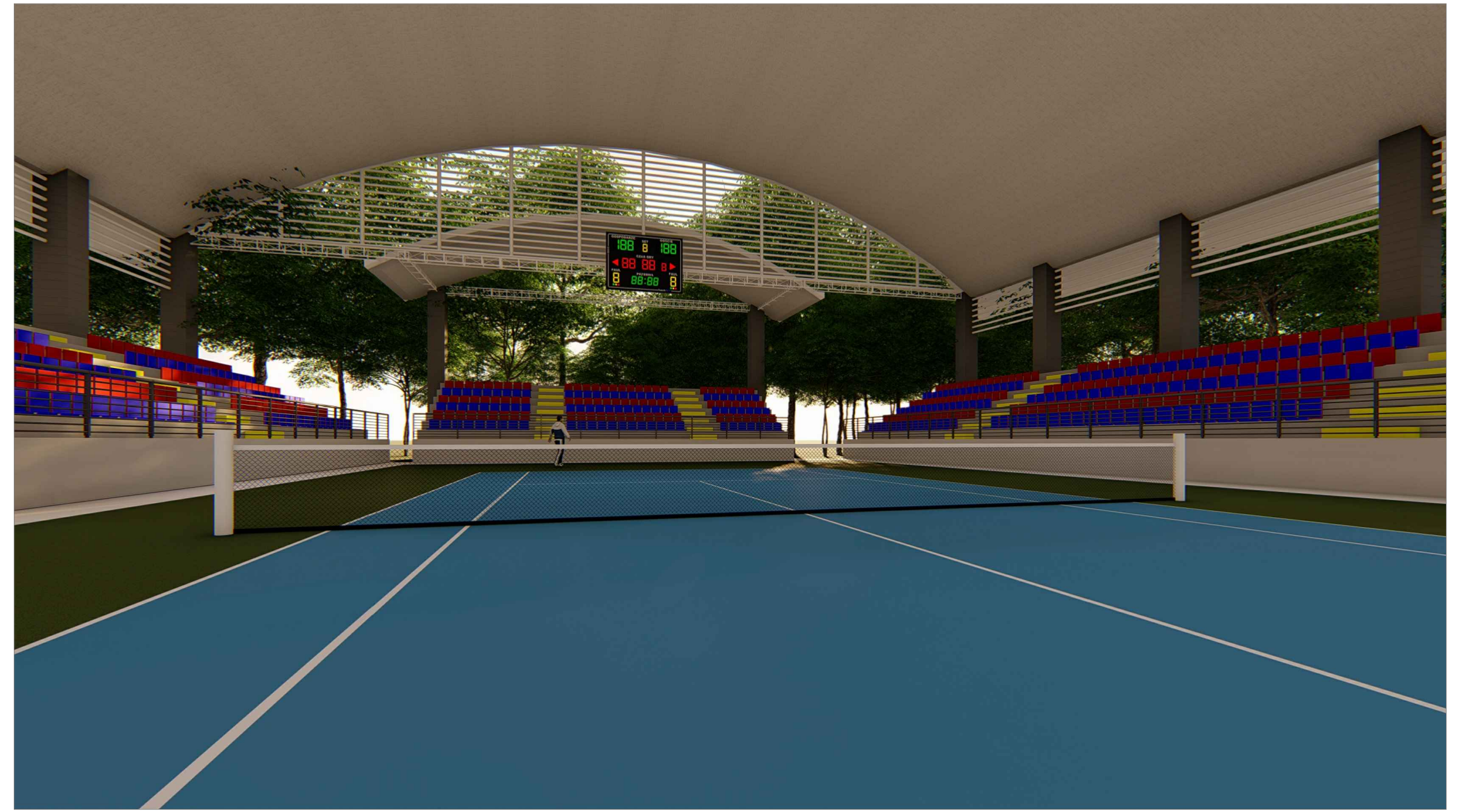
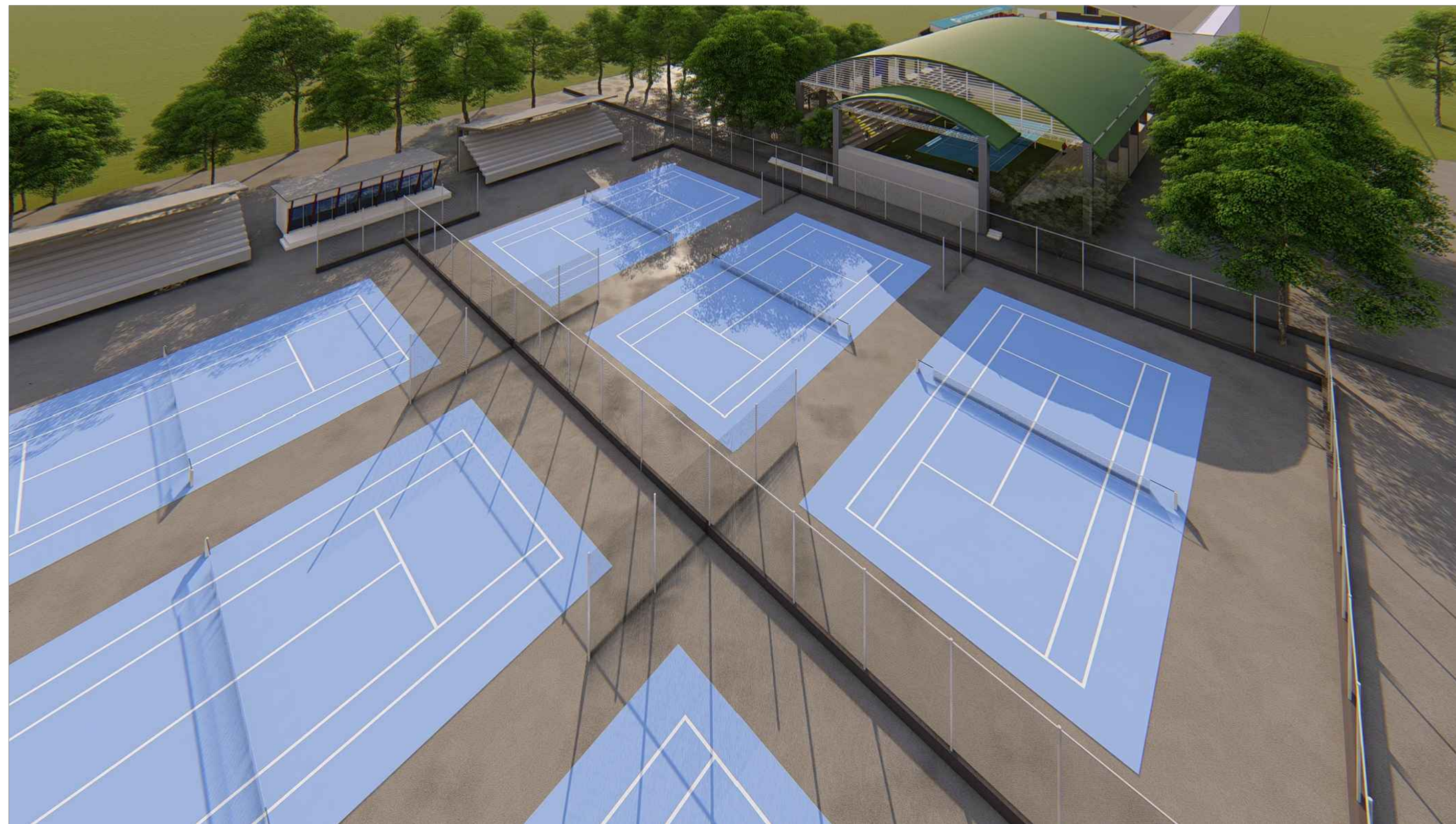




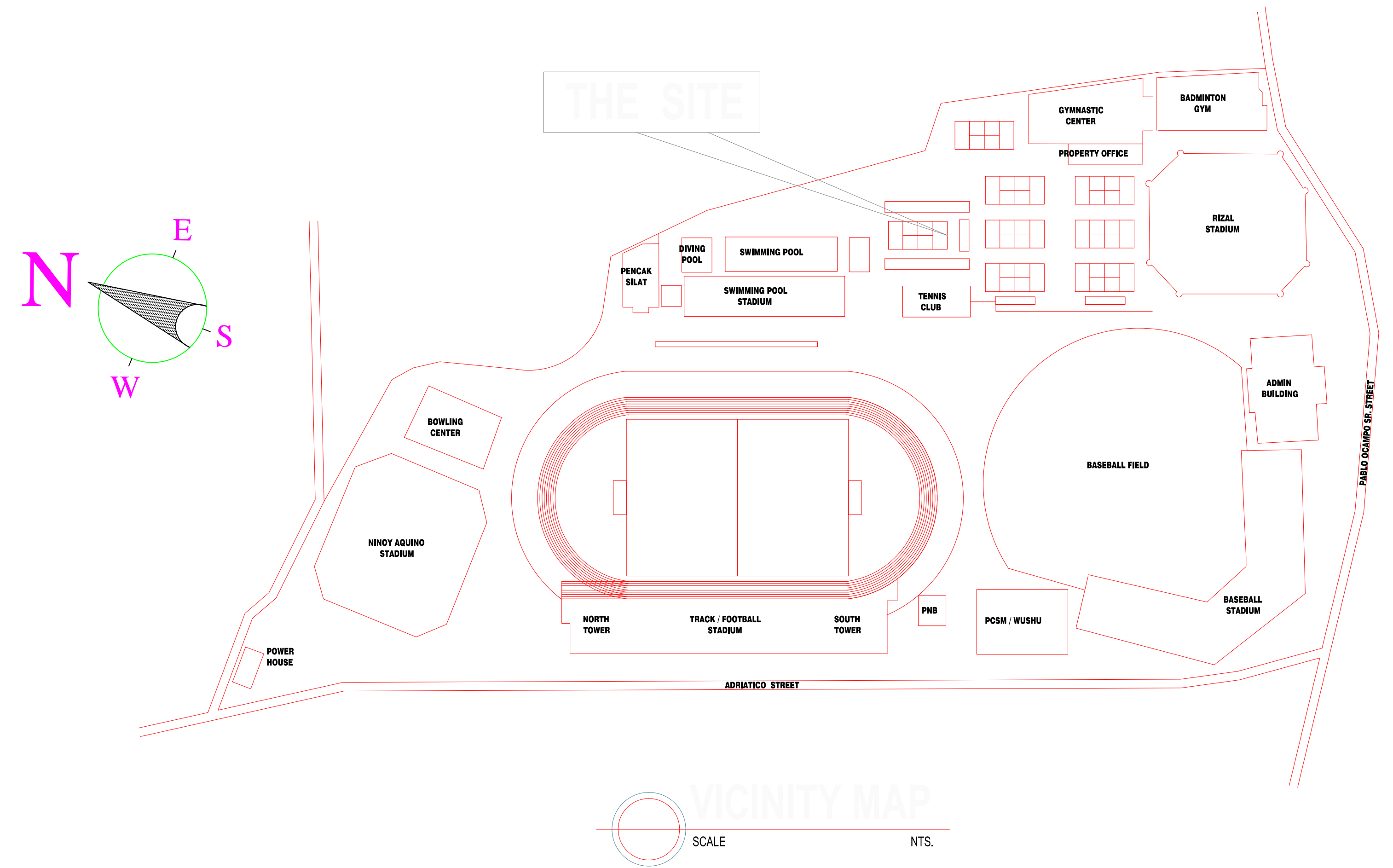
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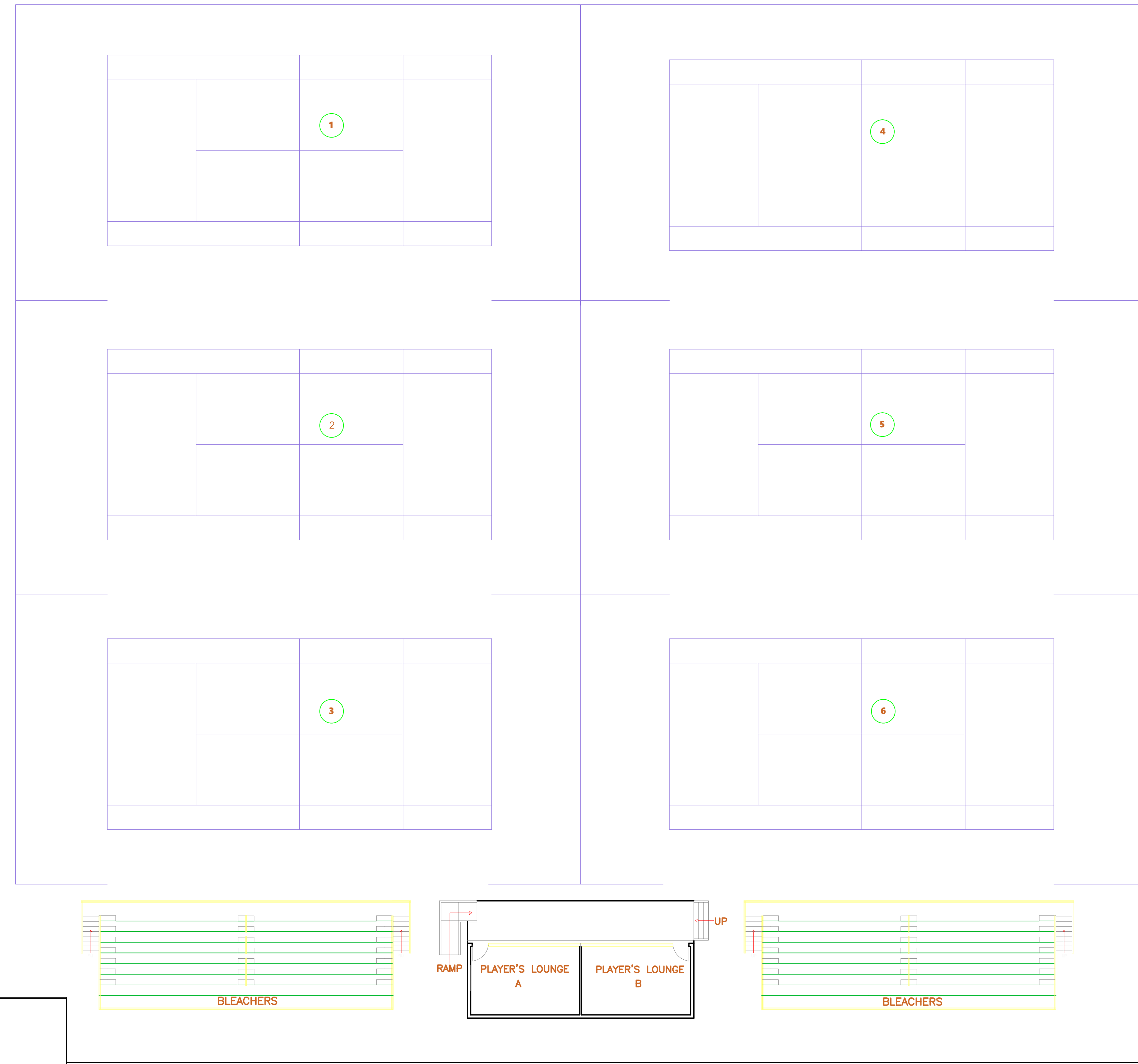
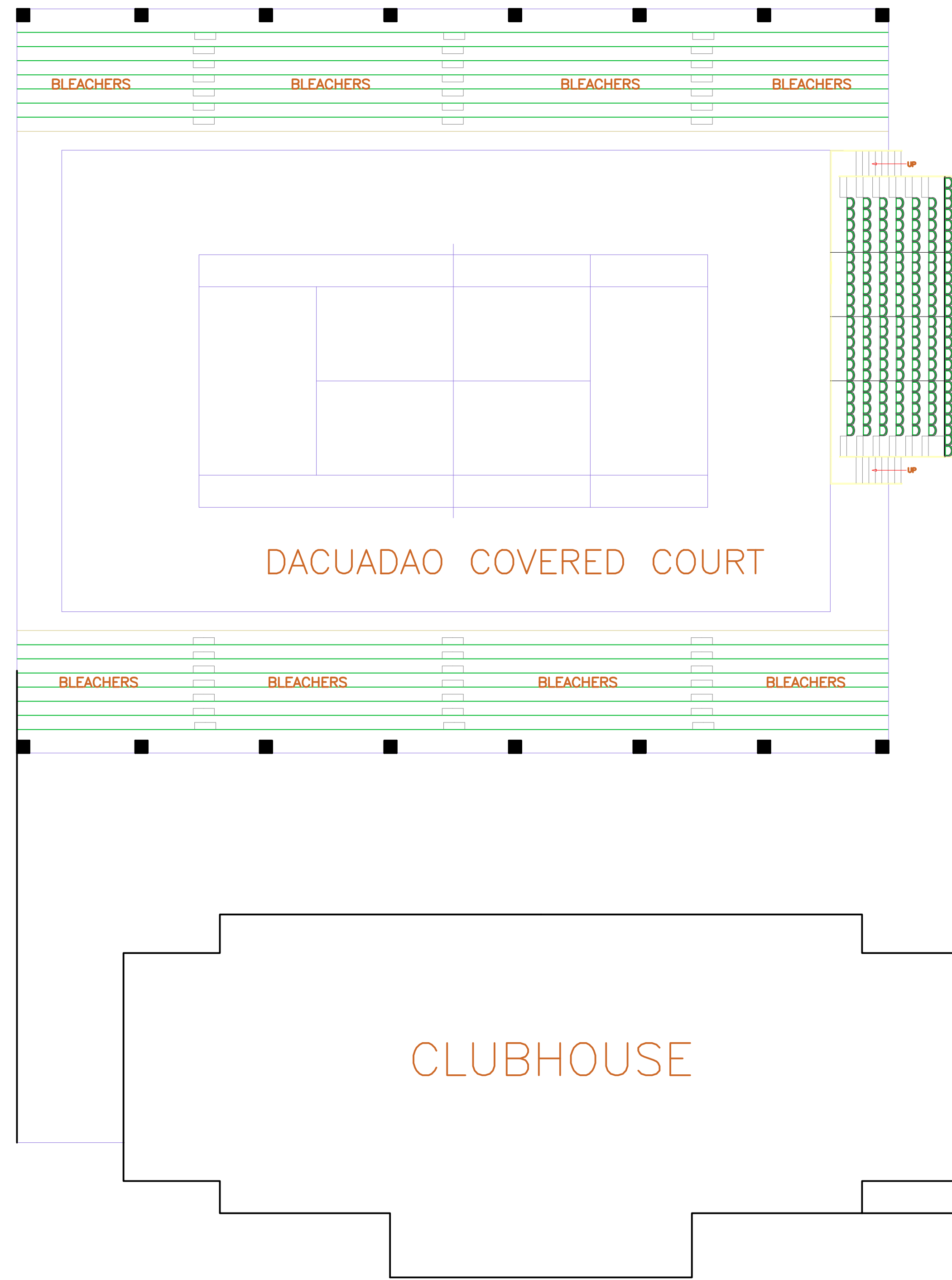
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PERSPECTIVE

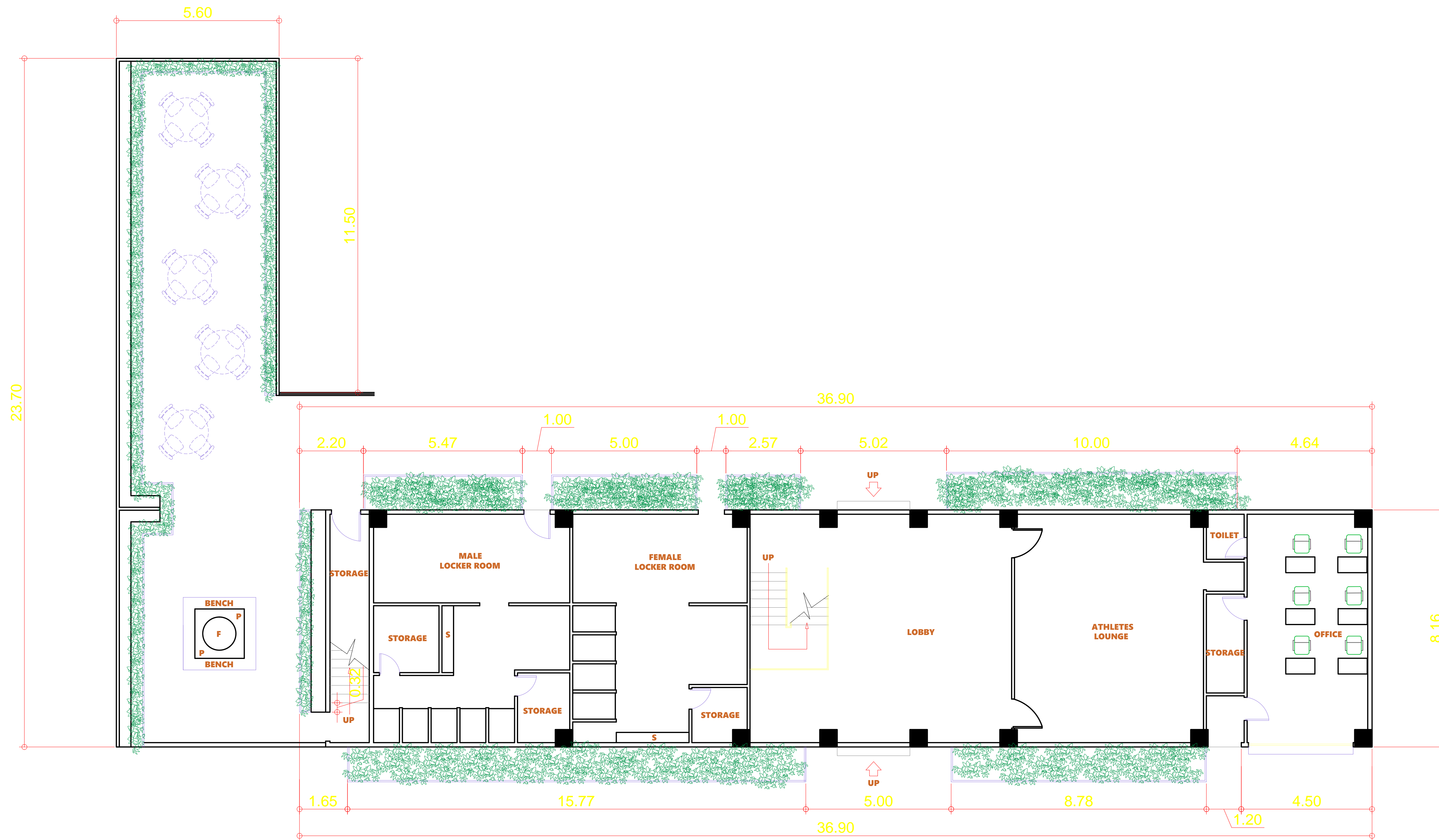


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 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	REHABILITATION OF TENNIS COURT LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	DRAWN BY : CHECKED BY : DATE : APPROVED BY :	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> A <hr style="width: 100%;"/> 1 </div>

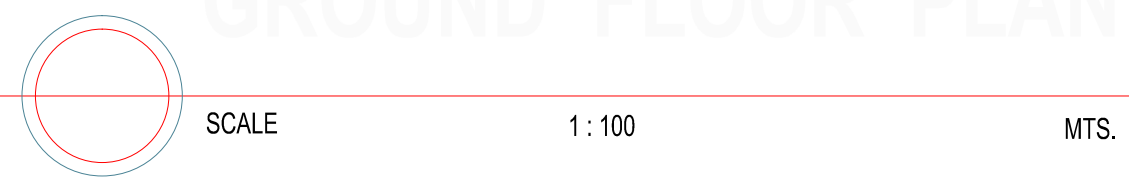



SITE DEVELOPMENT PLAN
SCALE 1 : 200 MTS.

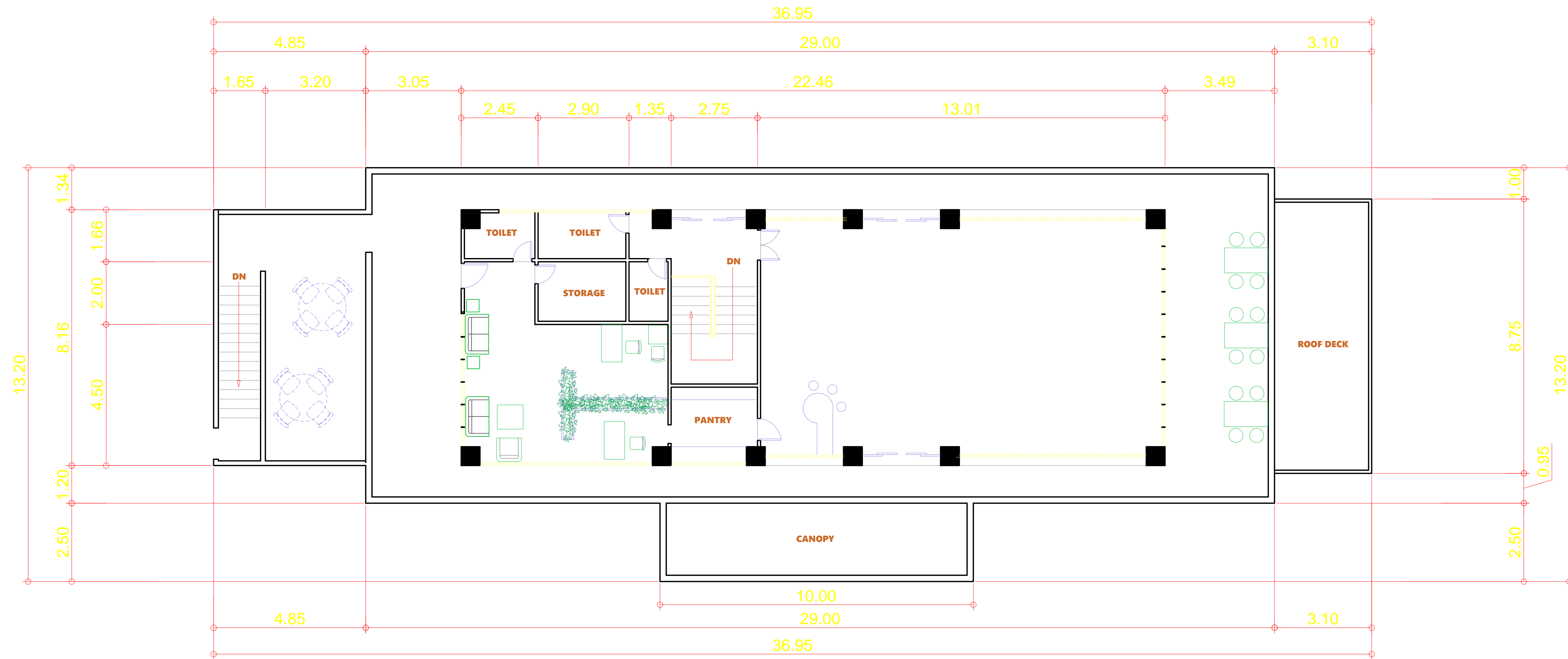
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GROUND FLOOR PLAN

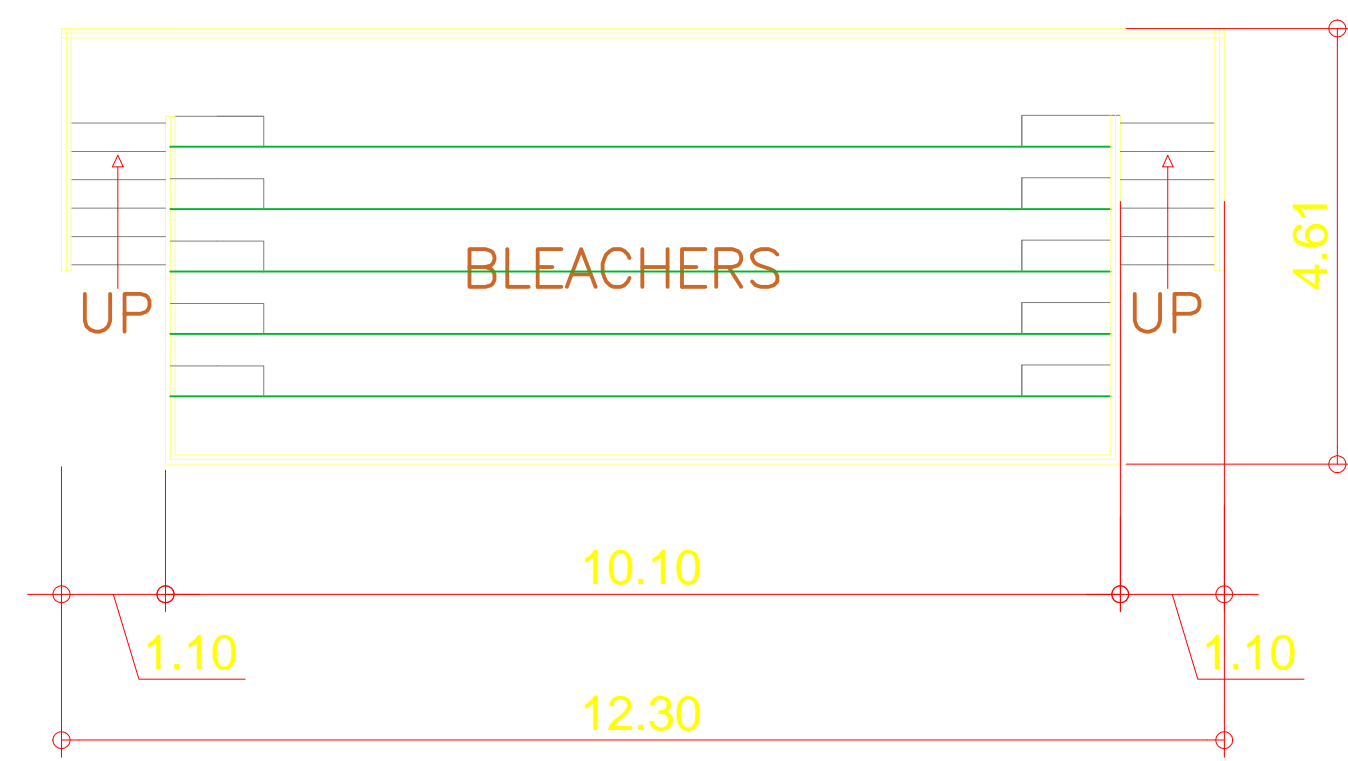


OWNER	PROJECT TITLE :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET CONTENTS :	DESIGN BY :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	REHABILITATION OF TENNIS COURT LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	DRAWN BY : CHECKED BY : DATE : APPROVED BY :	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> <p>A</p> <hr style="width: 100%;"/> <p>3</p> </div> </div>

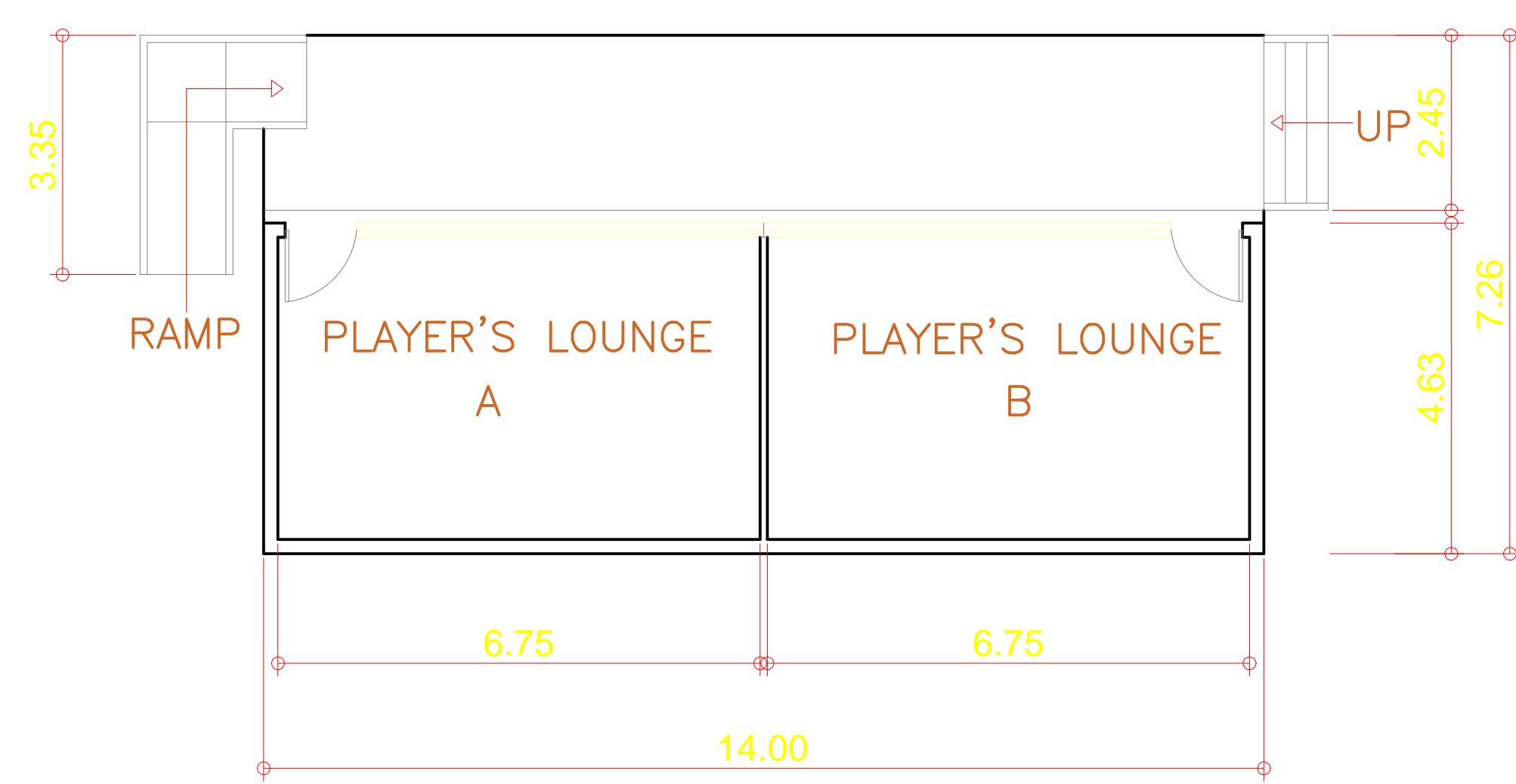



SECOND FLOOR PLAN
 SCALE 1:100 MTS.

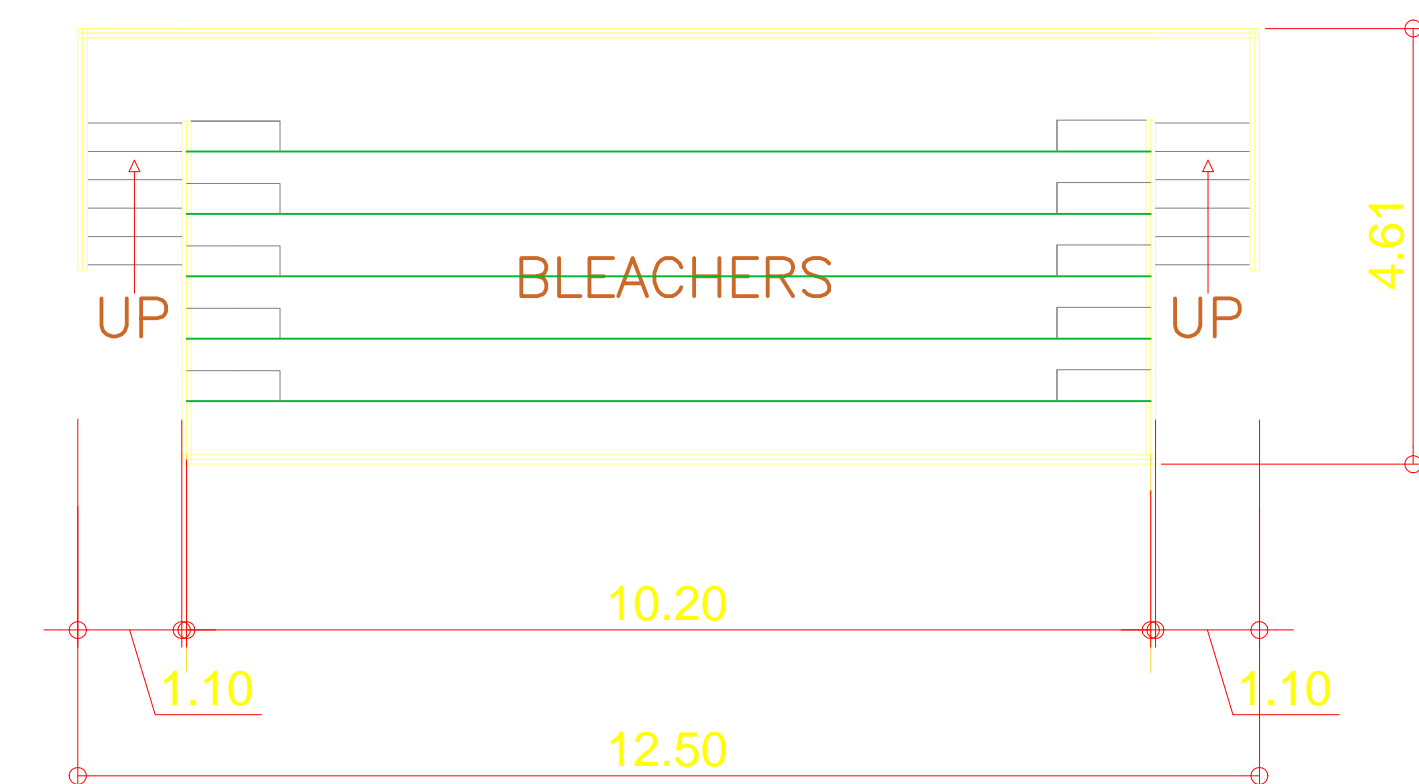
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 PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small>	REHABILITATION OF TENNIS COURT	ENGR. PEDRO I. PINEDA JR.	DIR. MERLITA R. IBAY	HON. WILLIAM I. RAMIREZ	AS SHOWN		A
	<small>LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small>	<small>HEAD - ENGINEERING UNIT</small>	<small>DEPUTY EXECUTIVE DIRECTOR</small>	<small>CHAIRMAN</small>			4



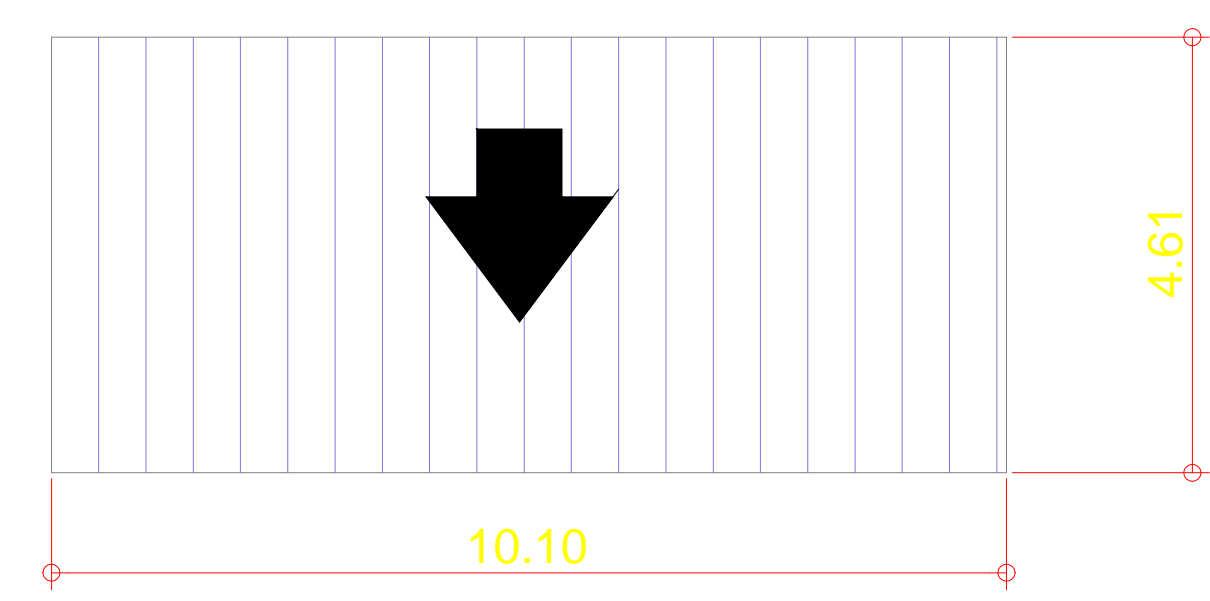
EXISTING BLEACHERS A PLAN
SCALE 1:100 MTS.



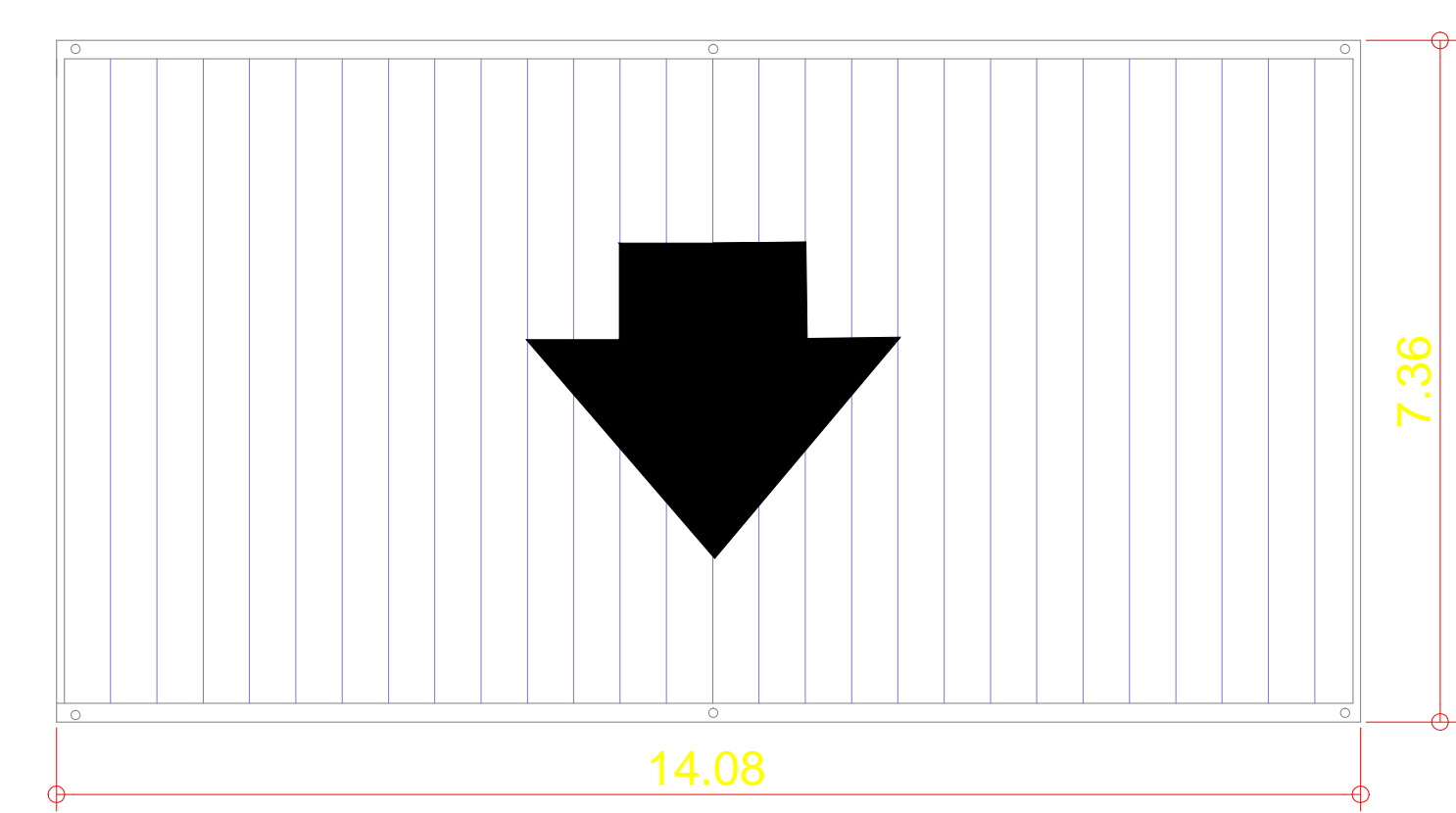
PLAYERS LOUNGE PLAN
SCALE 1:100 MTS.



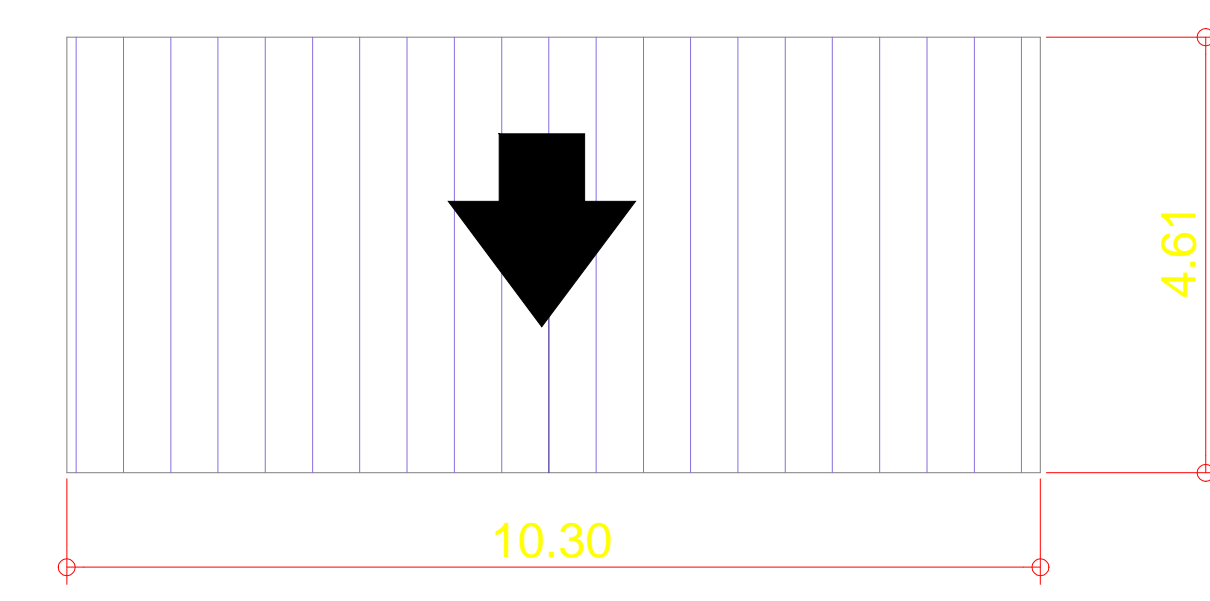
EXISTING BLEACHERS B PLAN
SCALE 1:100 MTS.




EXISTING BLEACHERS A ROOF PLAN
SCALE 1:100 MTS.

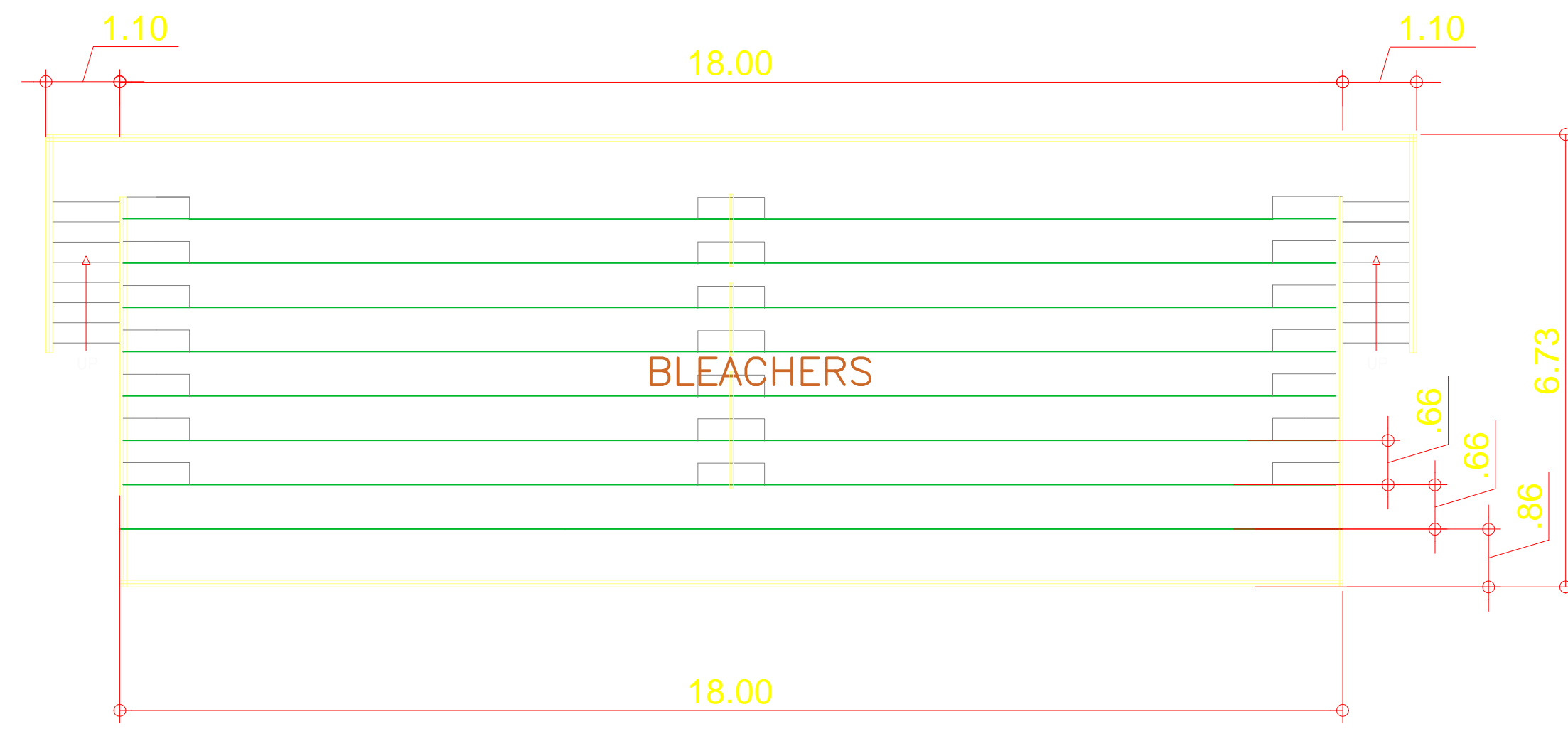


PLAYERS LOUNGE ROOF PLAN
SCALE 1:100 MTS.

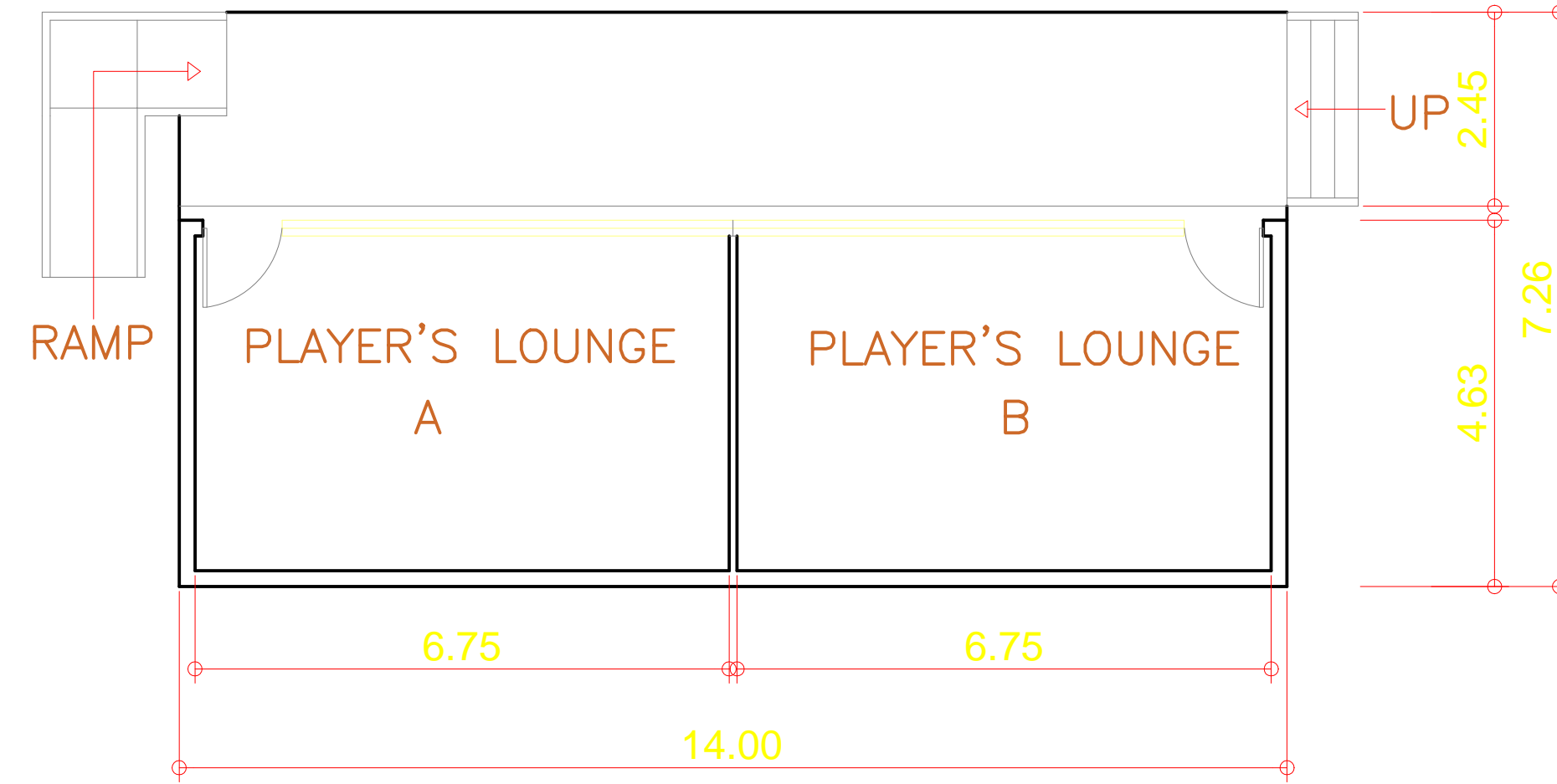


EXISTING BLEACHERS B ROOF PLAN
SCALE 1:100 MTS.

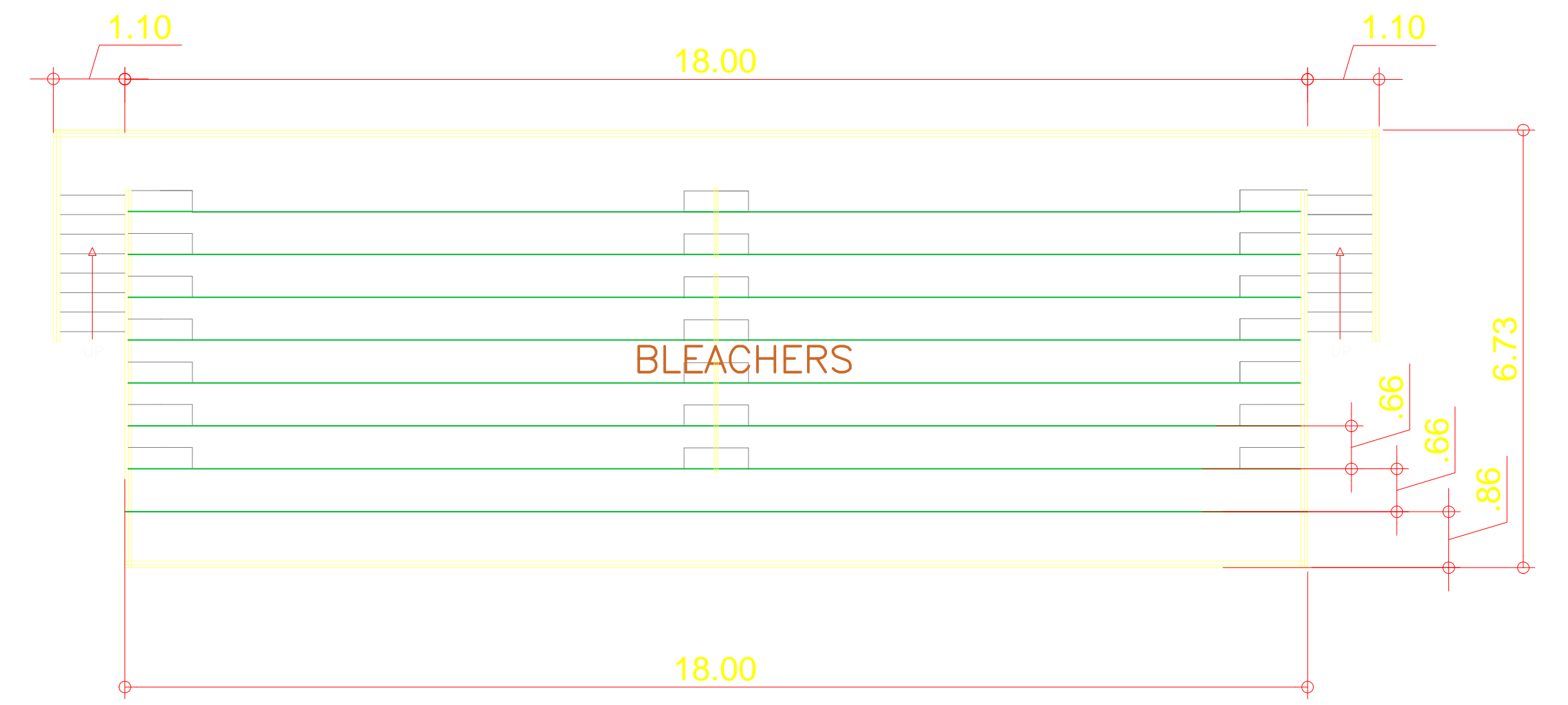
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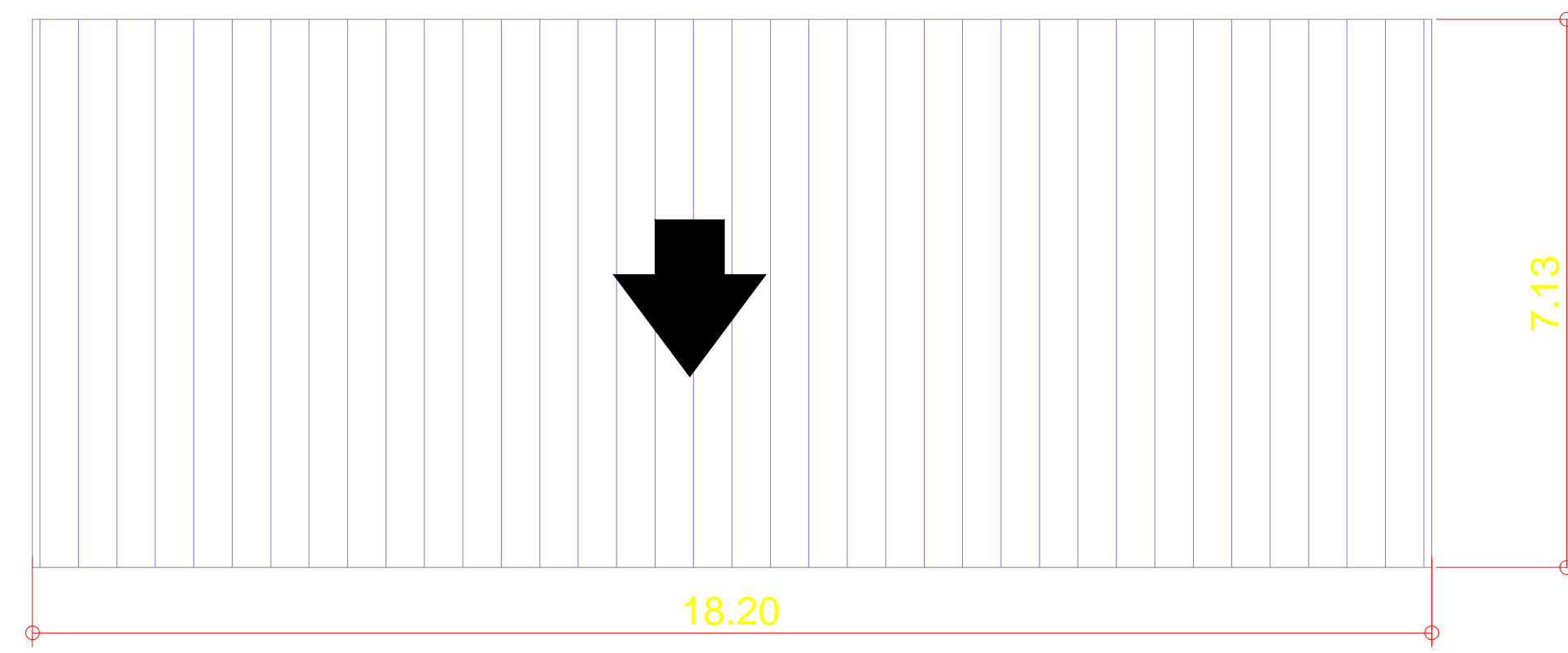
PROPOSED BLEACHERS A PLAN
SCALE 1:100 MTS.



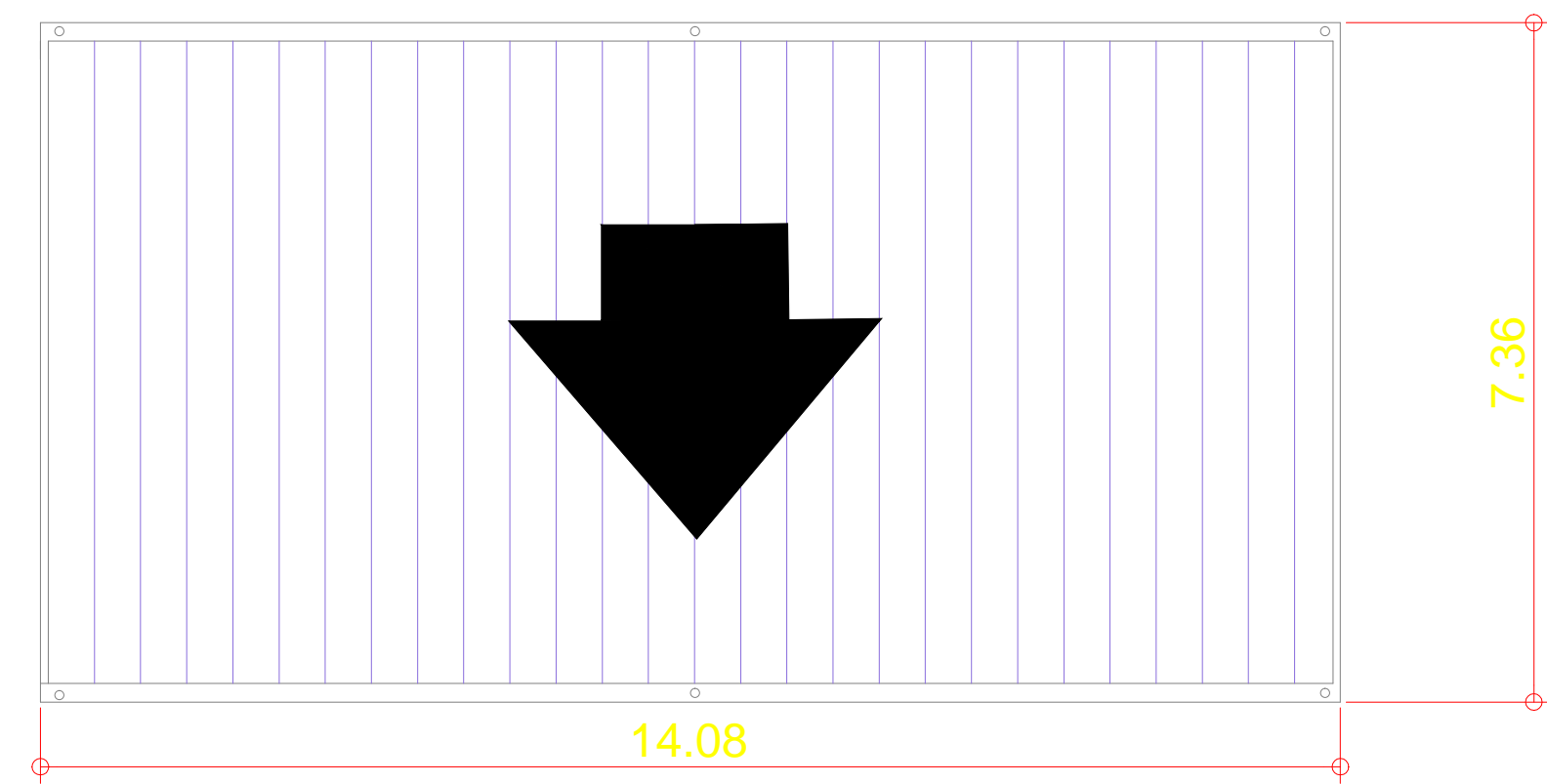
PROPOSED PLAYERS LOUNGE PLAN
SCALE 1:100 MTS.



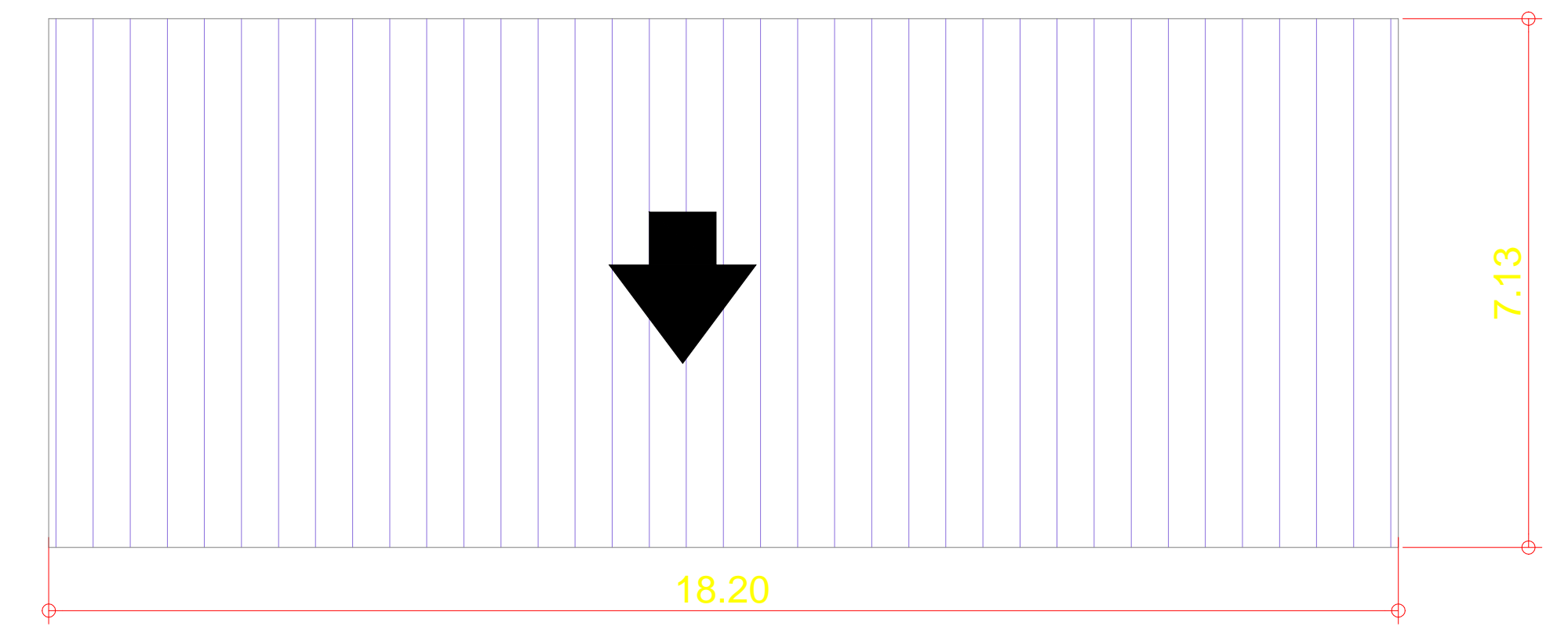
PROPOSED BLEACHERS B PLAN
SCALE 1:100 MTS.




PROPOSED BLEACHERS A ROOF PLAN
SCALE 1:100 MTS.

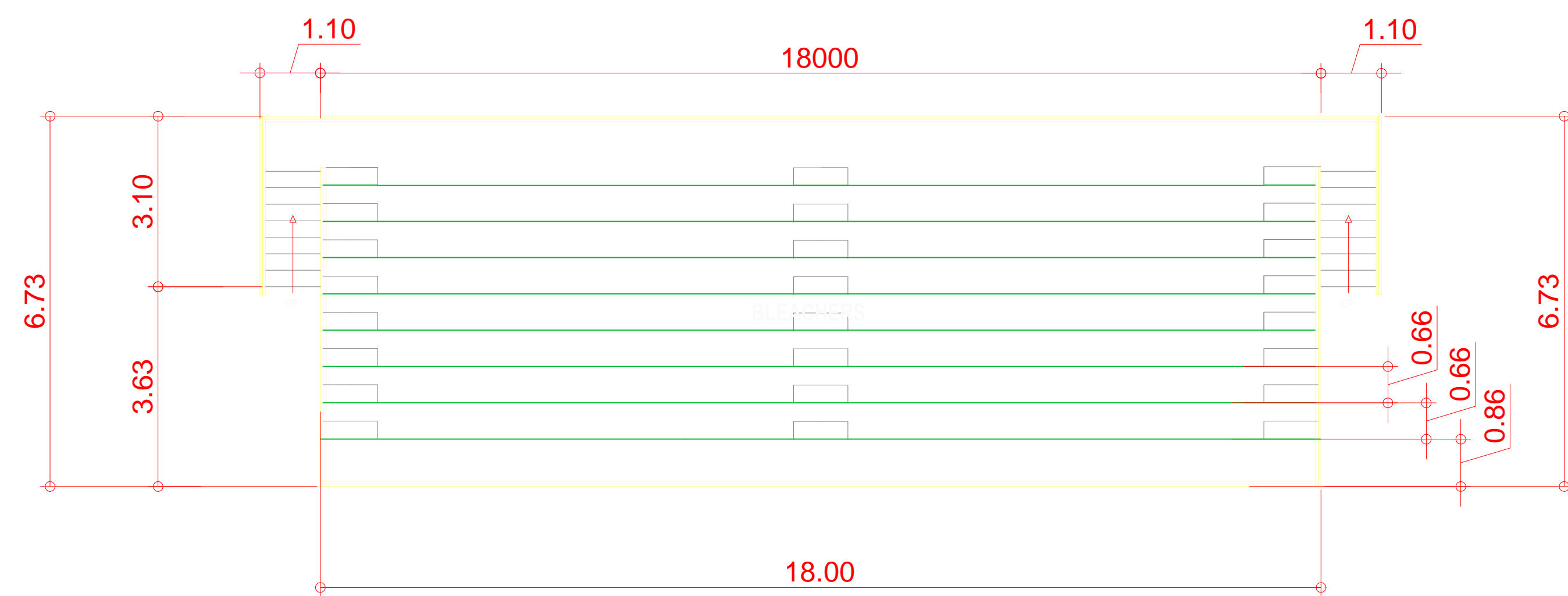


PROPOSED PLAYERS LOUNGE ROOF PLAN
SCALE 1:100 MTS.

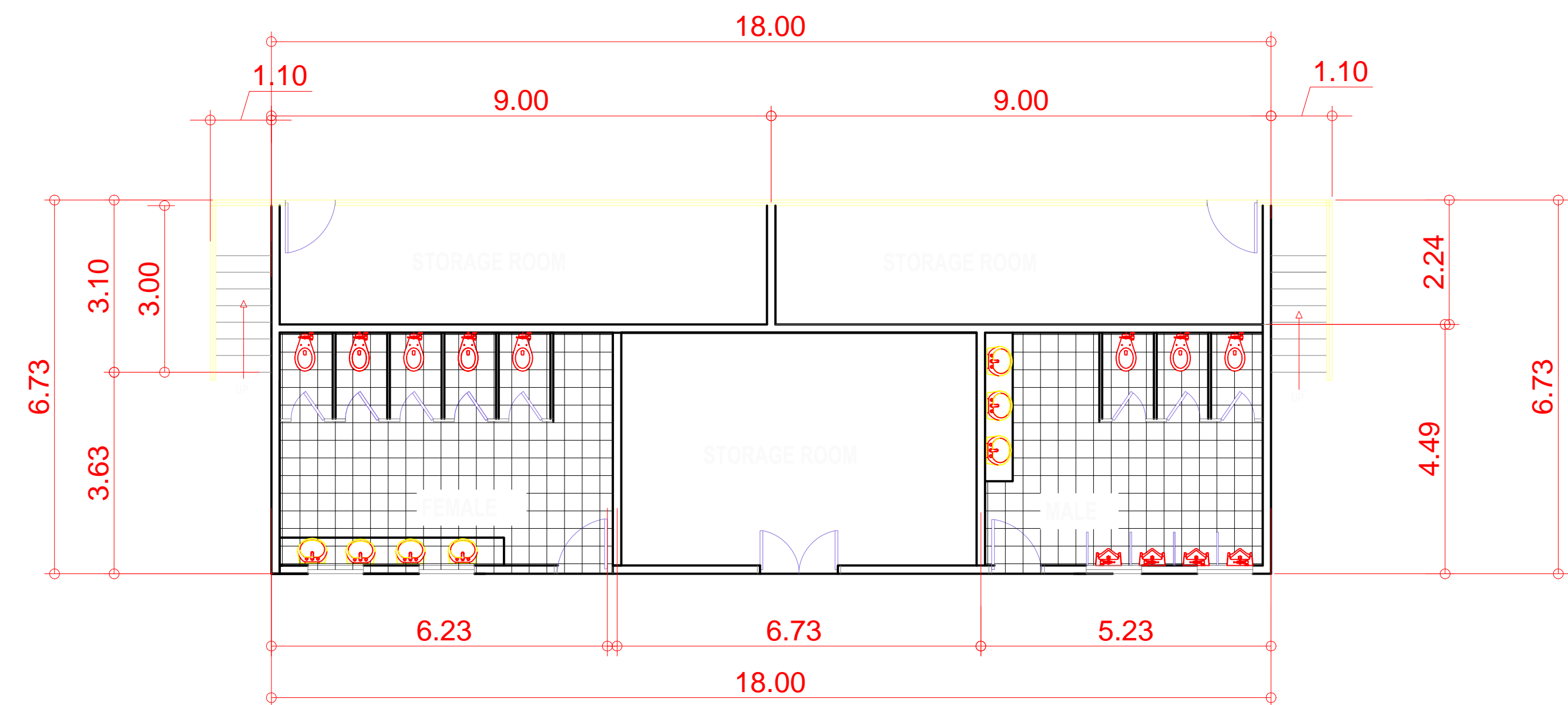


PROPOSED BLEACHERS B ROOF PLAN
SCALE 1:100 MTS.


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 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	REHABILITATION OF TENNIS COURT	ENGR. PEDRO I. PINEDA JR.	DIR. MERLITA R. IBAY	HON. WILLIAM I. RAMIREZ	AS SHOWN		<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> A 6 </div>
	LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	HEAD - ENGINEERING UNIT	DEPUTY EXECUTIVE DIRECTOR	CHAIRMAN			

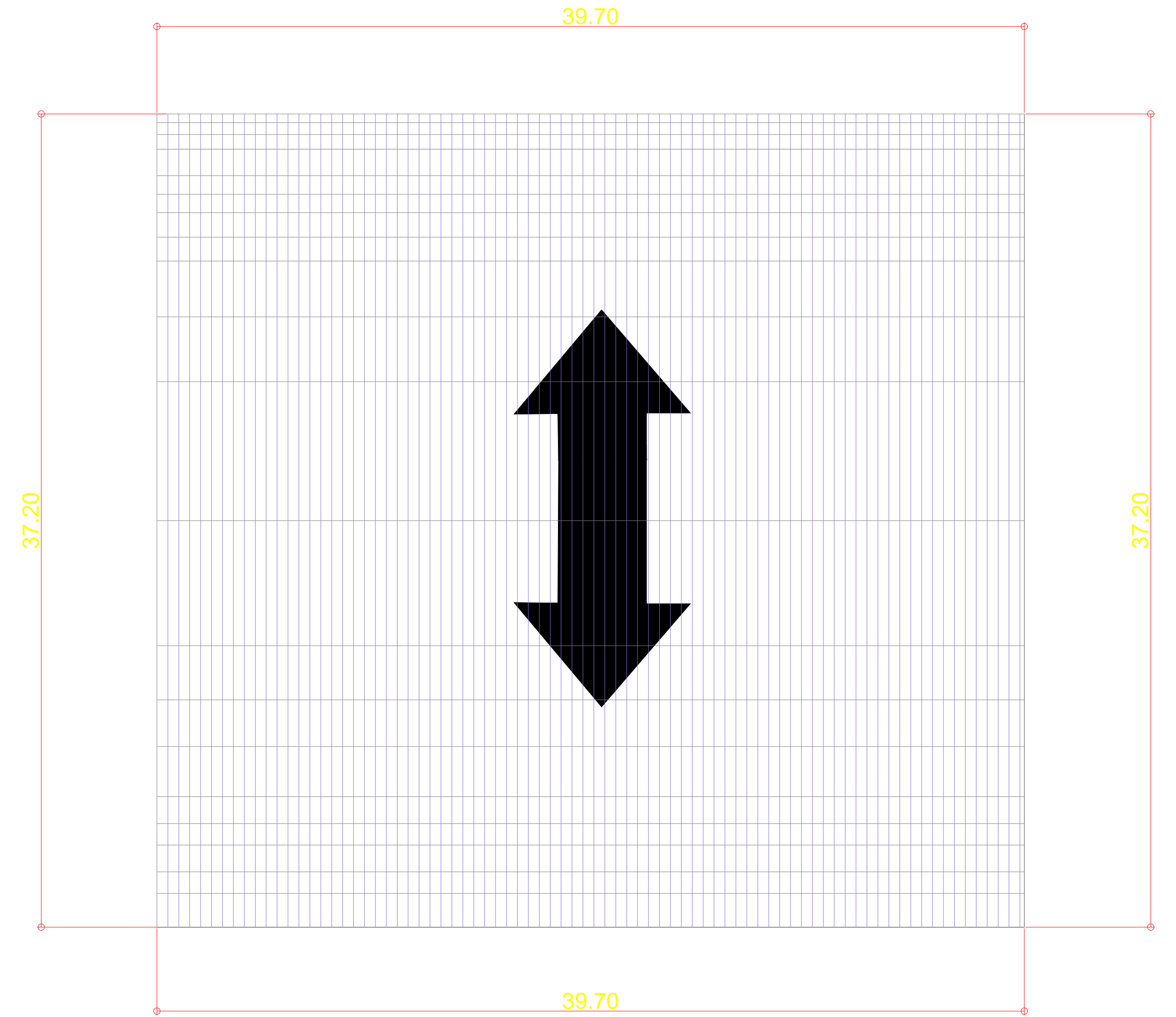
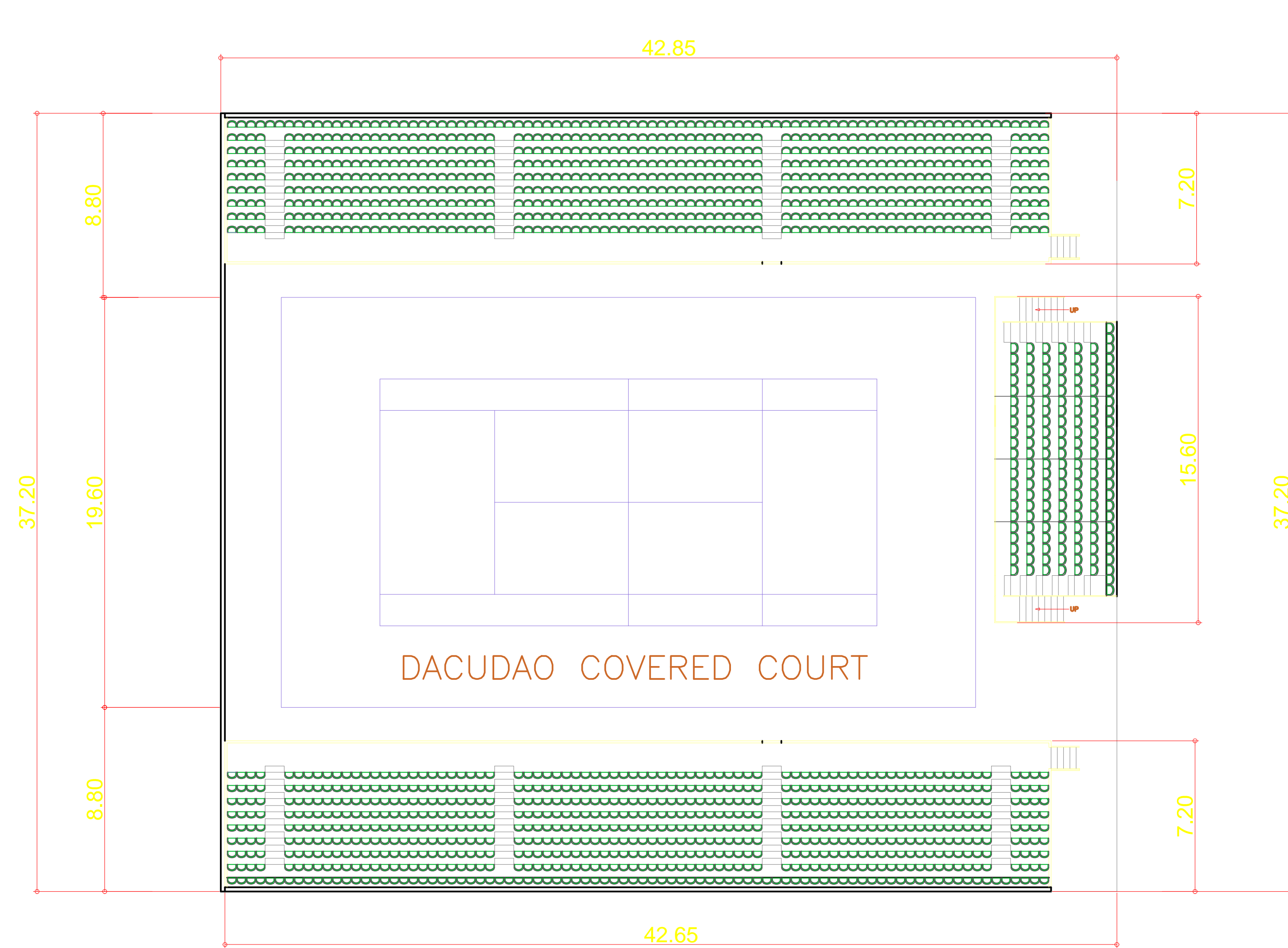



PROPOSED BLEACHERS PLAN
SCALE 1:100 MTS.

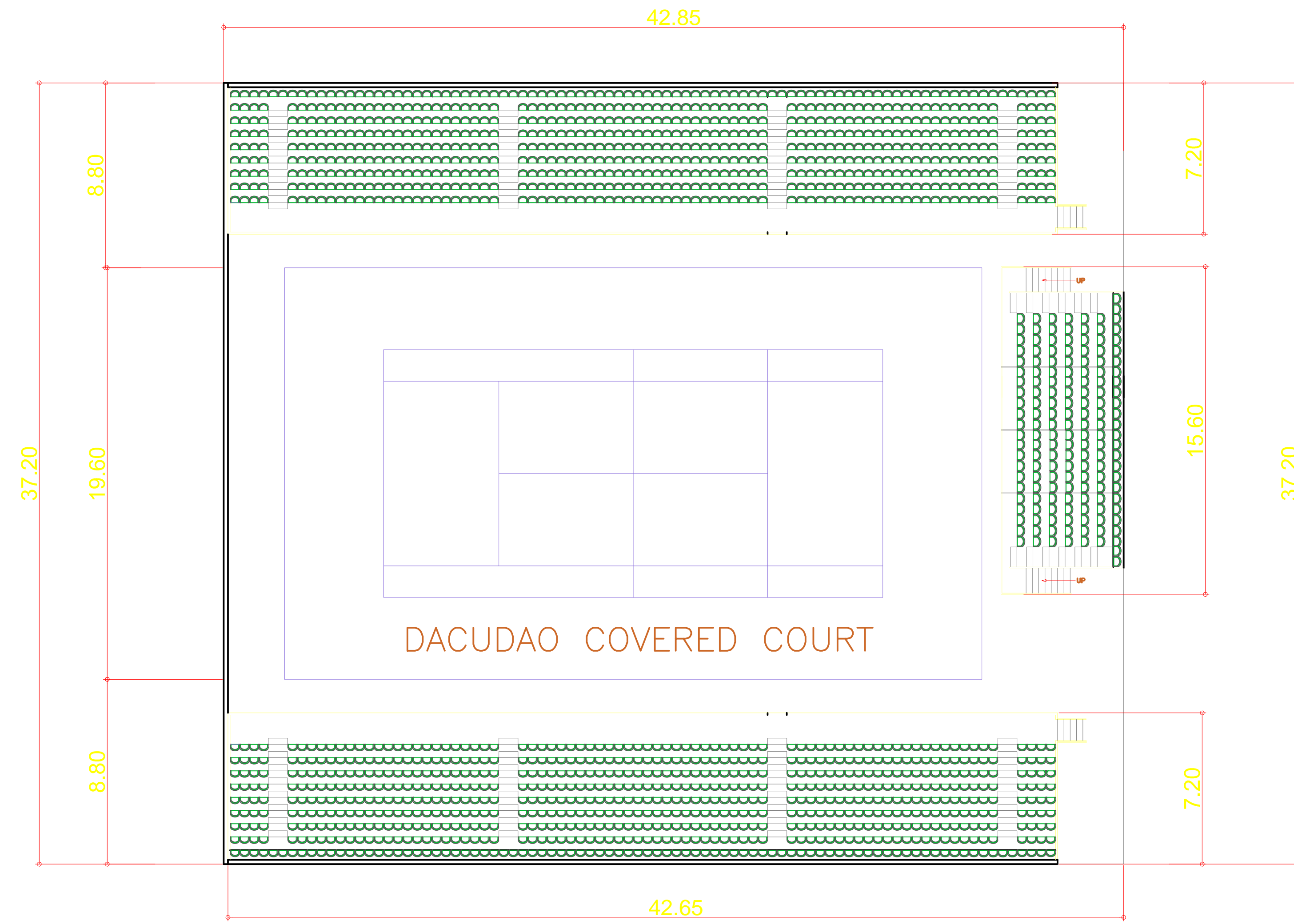


PROPOSED BLEACHERS GROUND FLOOR PLAN
SCALE 1:100 MTS.

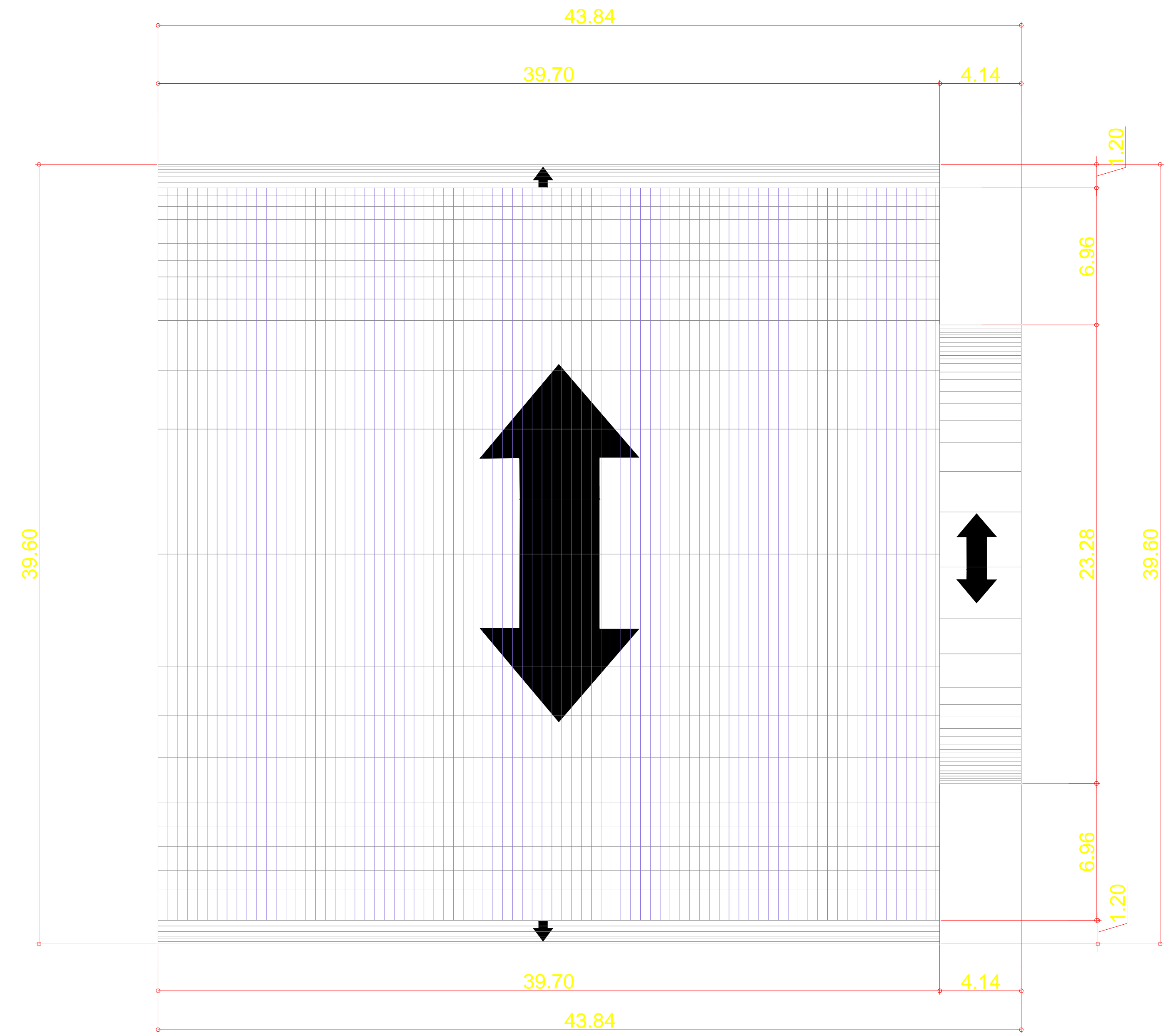
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OWNER	PROJECT TITLE :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET CONTENTS :	DESIGN BY :	SHEET NO :
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	<small>LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small>	<small>HEAD - ENGINEERING UNIT</small>	<small>DEPUTY EXECUTIVE DIRECTOR</small>	<small>CHAIRMAN</small>			8

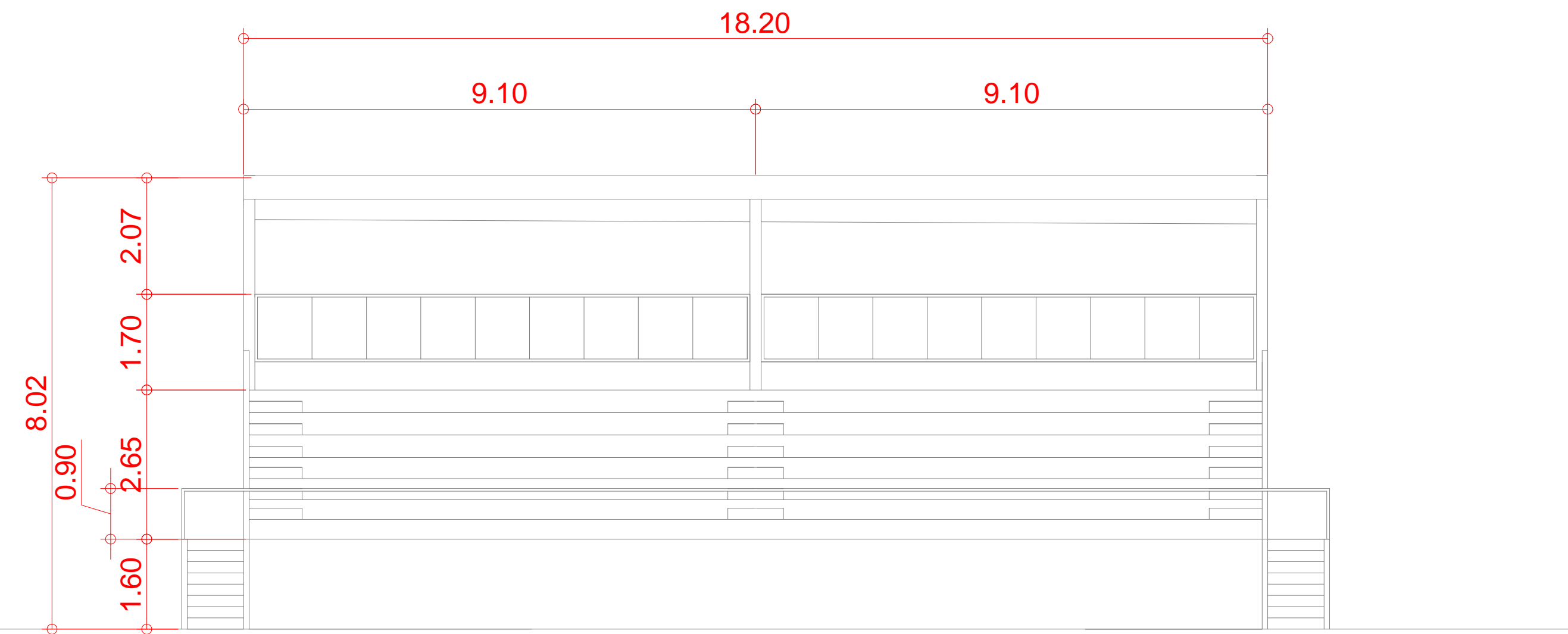


GROUND FLOOR PLAN
SCALE 1:200 MTS.

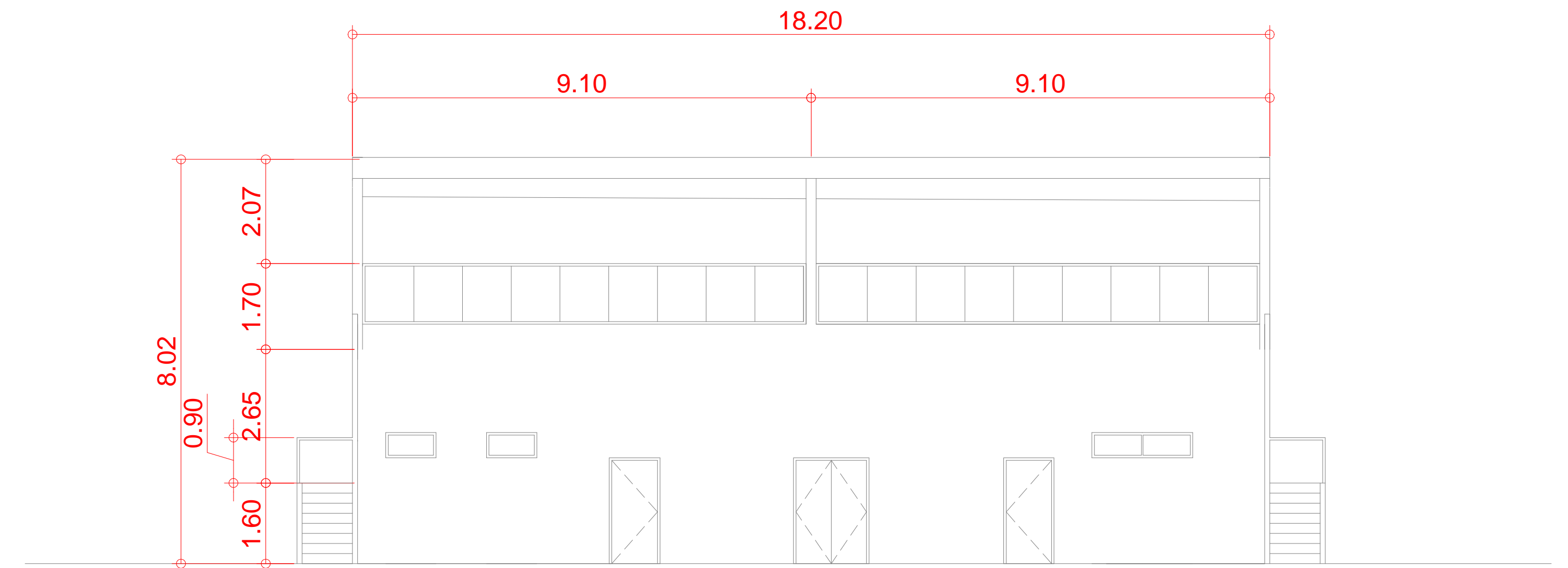


PROPOSED ROOF PLAN
SCALE 1:200 MTS.

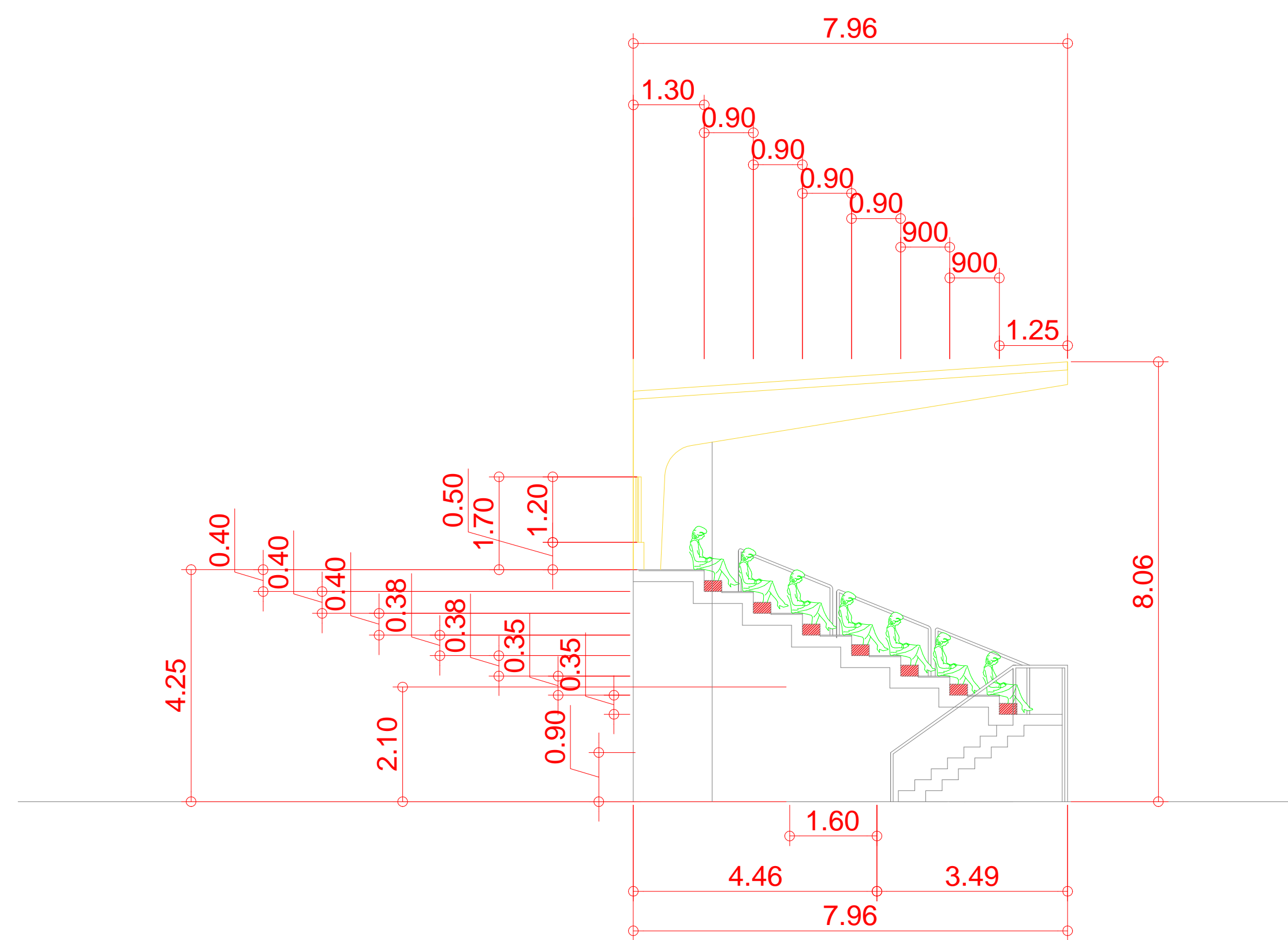
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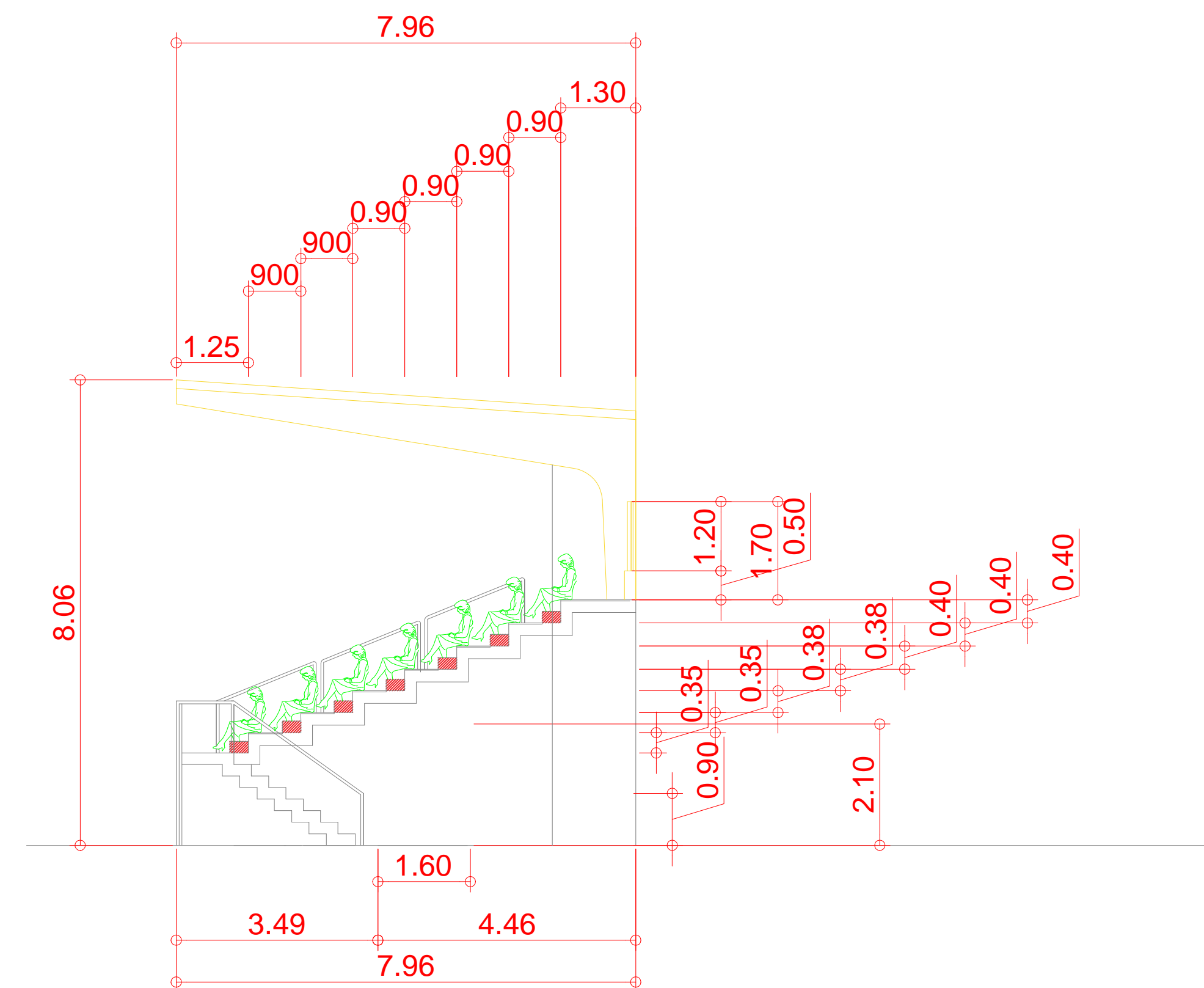
FRONT ELEVATION
SCALE 1:200 MTS.




REAR ELEVATION
SCALE 1:200 MTS.

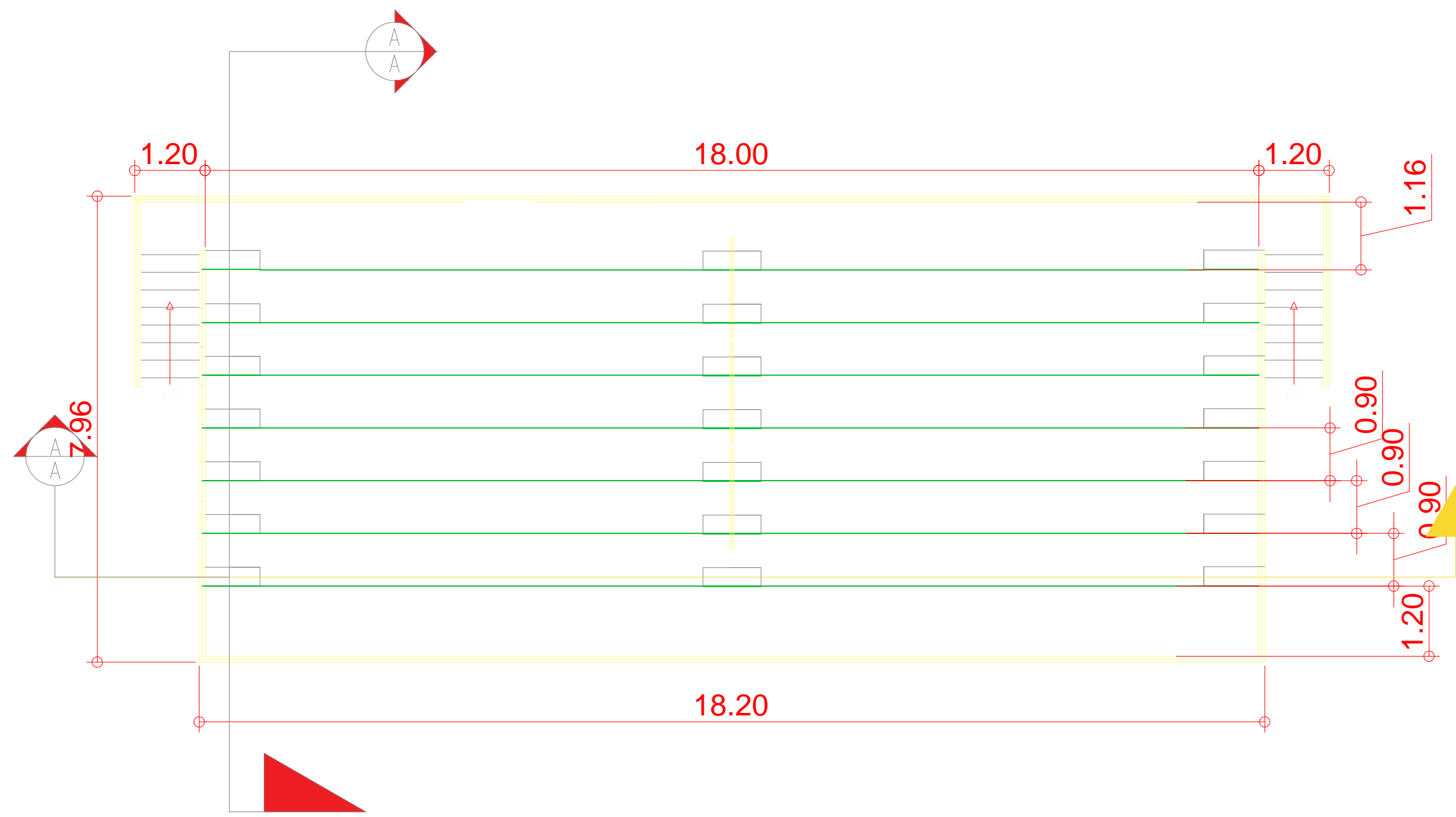


RIGHT SIDE ELEVATION
SCALE 1:200 MTS.

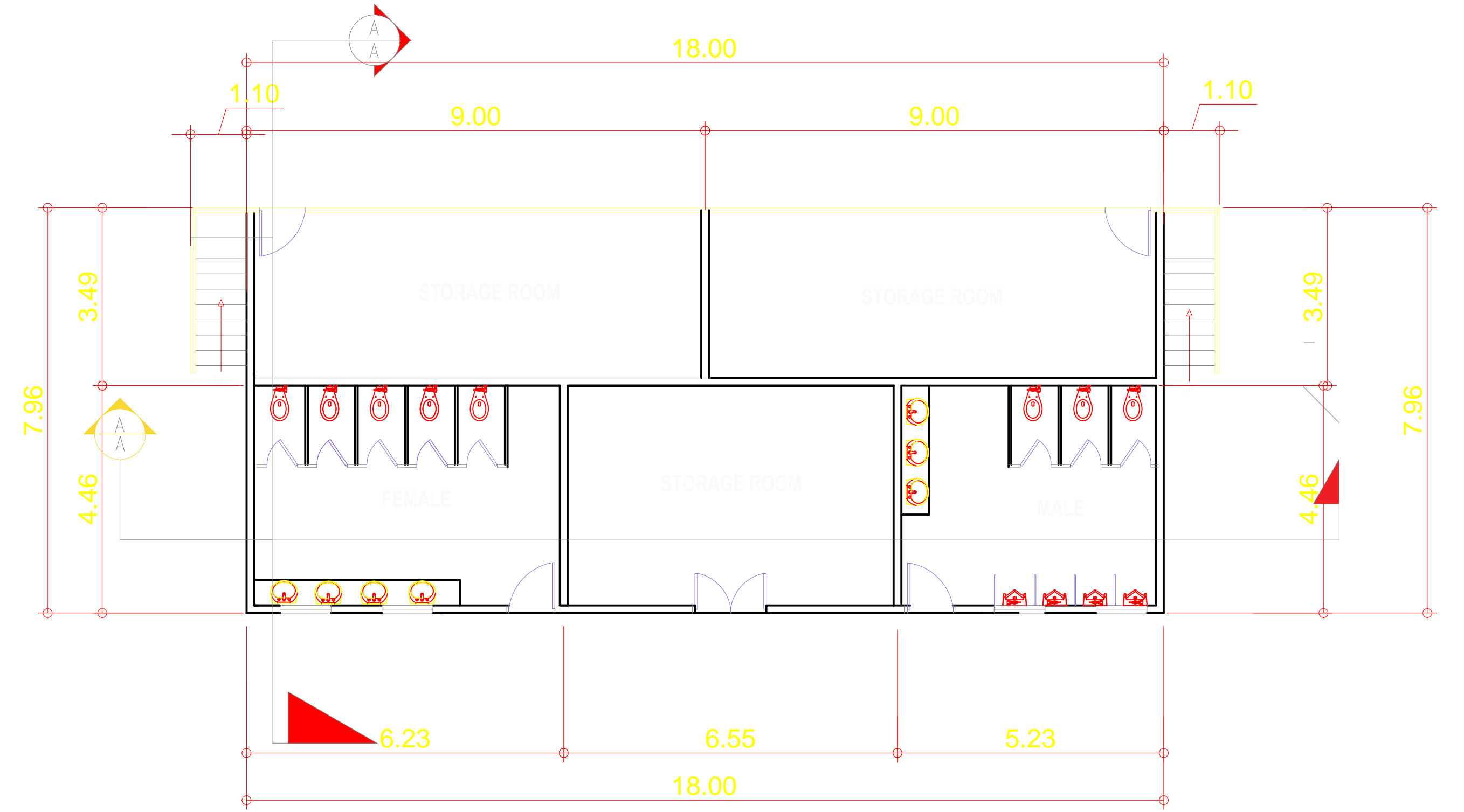


LEFT SIDE ELEVATION
SCALE 1:200 MTS.

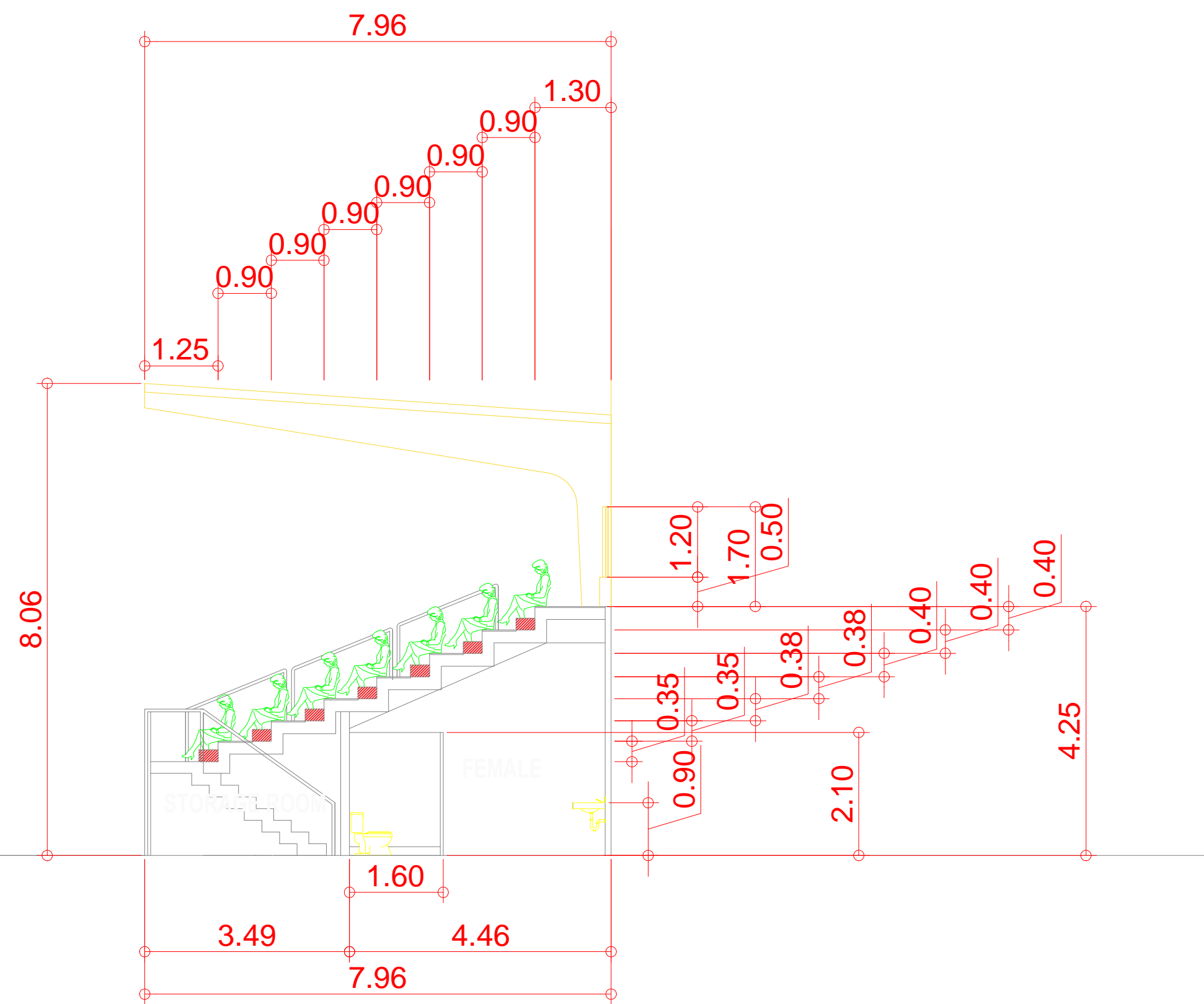
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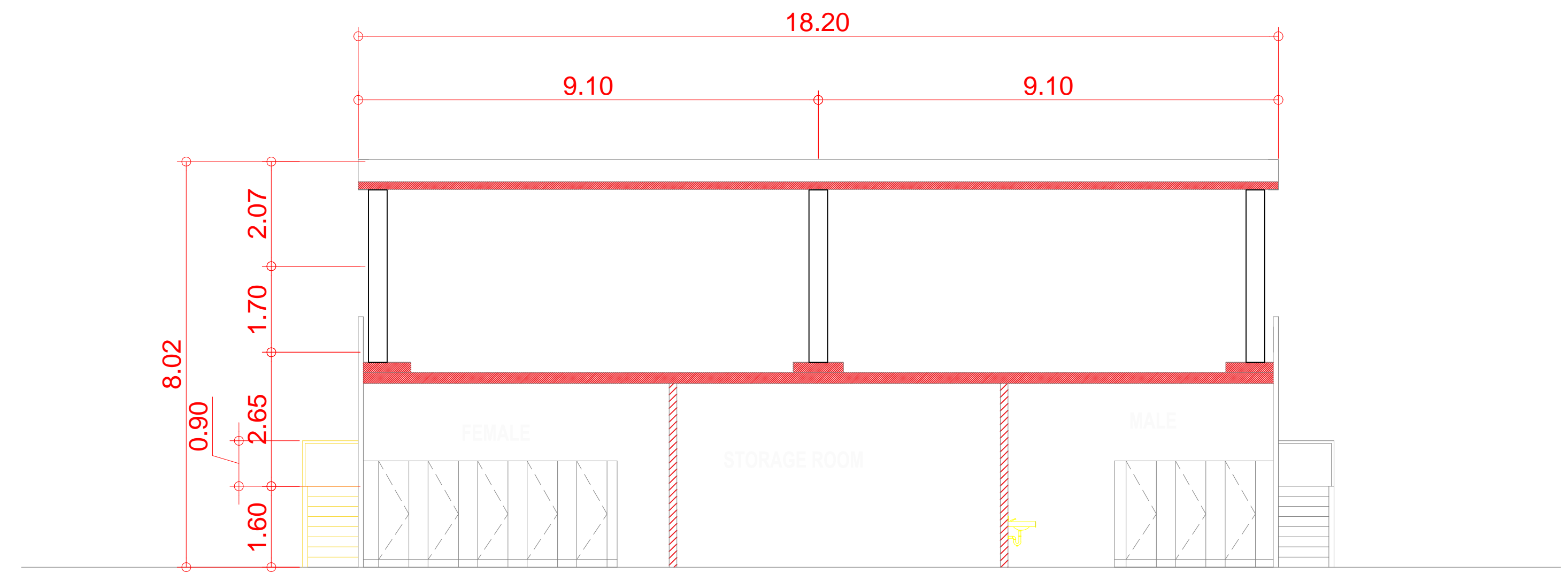
BLEACHER PLAN
SCALE 1:200 MTS.




GROUND FLOOR PLAN
SCALE 1:200 MTS.



CROSS SECTION
SCALE 1:200 MTS.



LONGITUDINAL SECTION
SCALE 1:200 MTS.

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	LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	HEAD - ENGINEERING UNIT	DEPUTY EXECUTIVE DIRECTOR	CHAIRMAN			

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	P1	12.3m	-	12.3m	TLC-LED-600	2	2	0
2	P2, P8	12.3m	-	12.3m	TLC-LED-600	4	2	2
1	P7	12.3m	-	12.3m	TLC-LED-600	4/4*	2	6
4	TOTALS					18	8	10

* This structure utilizes a back-to-back mounting configuration



GRID SUMMARY	
Name:	Tennis #1
Size:	m x m
Spacing:	2.0m x 2.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	EPA	PPA	
Scan Average:	581.82	590.44	
Maximum:	826.87	825.06	
Minimum:	332.85	427.56	
Min / Avg:	0.57	0.72	
Min / Max:	0.40	0.52	
UG (adjacent pts):	1.55	1.16	
CU:	0.73		
No. of Points:	162	60	
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	65,600 lumens		
No. of Luminaires:	8		
Total Load:	4.64 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>81,000	>81,000	>81,000
Reported per TM-21-11. See luminaire datasheet for details.			


Guaranteed Performance: The ILLUMINATION described above is guaranteed
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.

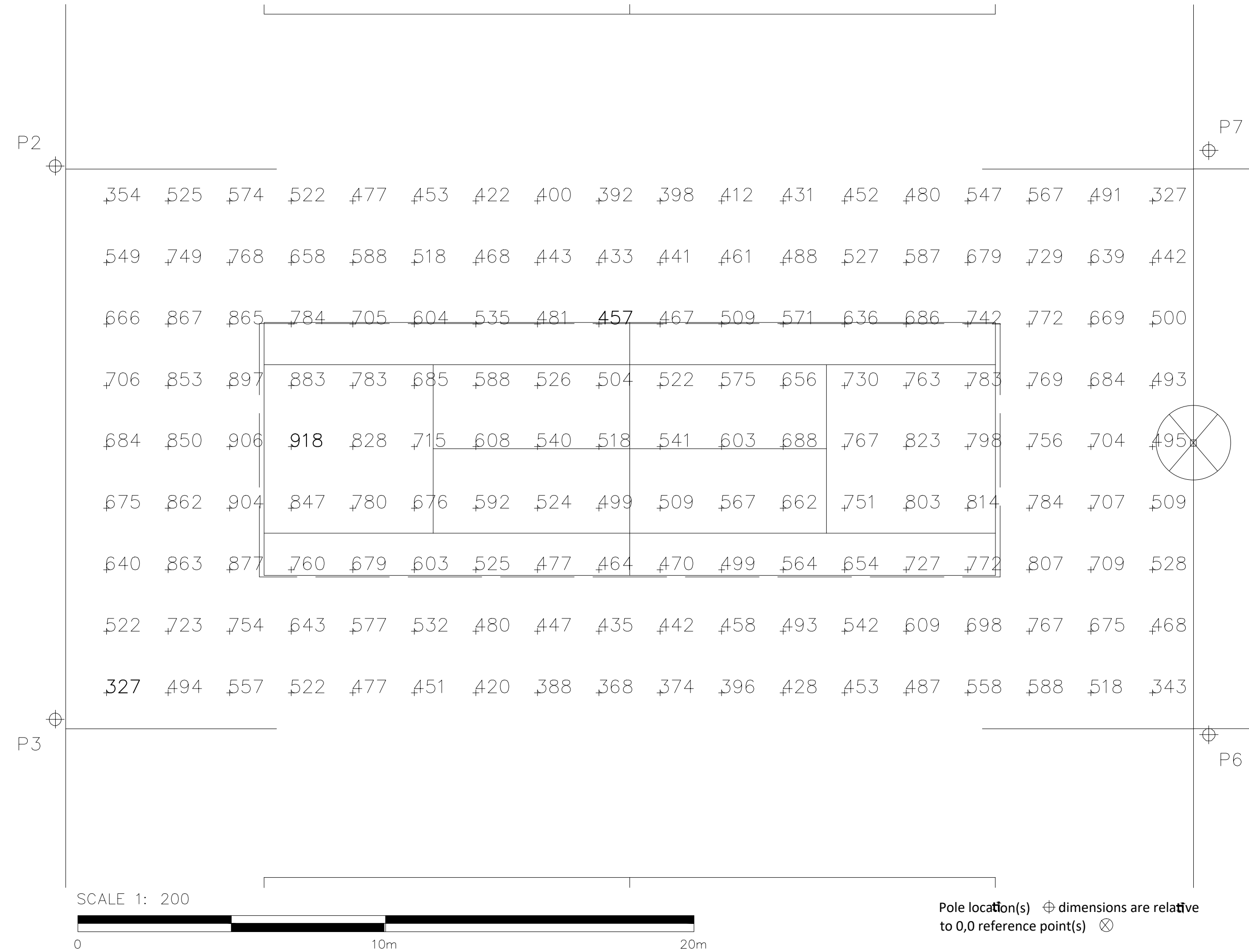
Installation Requirements: Results assume 73% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

ILLUMINATION SUMMARY

OWNER	PROJECT TITLE :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET CONTENTS :	DESIGN BY :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	REHABILITATION OF TENNIS COURT LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	<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	DRAWN BY :	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> E 1 </div>
						CHECKED BY :	
						DATE	
						APPROVED BY :	

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	P2-P3	12.3m	-	12.3m	TLC-LED-600	4	2	2	
2	P6-P7	12.3m	-	12.3m	TLC-LED-600	4/4*	2	6	
4	TOTALS							24	16

* This structure utilizes a back-to-back mounting configuration



GRID SUMMARY

Name: Tennis #2
 Size: m x m
 Spacing: 2.0m x 2.0m
 Height: 1.0m above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL LUX		
	EPA	PPA
Scan Average:	602.13	645.69
Maximum:	918.01	918.01
Minimum:	327.15	457.10
Min / Avg:	0.54	0.71
Min / Max:	0.36	0.50
UG (adjacent pts):	1.60	1.18
CU:	0.76	
No. of Points:	162	60

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
 Luminaire Output: 65,600 lumens
 No. of Luminaires: 8
 Total Load: 4.64 kW

Luminaire Type	Lumen Maintenance		
	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>81,000	>81,000	>81,000

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

Guaranteed Performance: The ILLUMINATION described above is guaranteed


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.

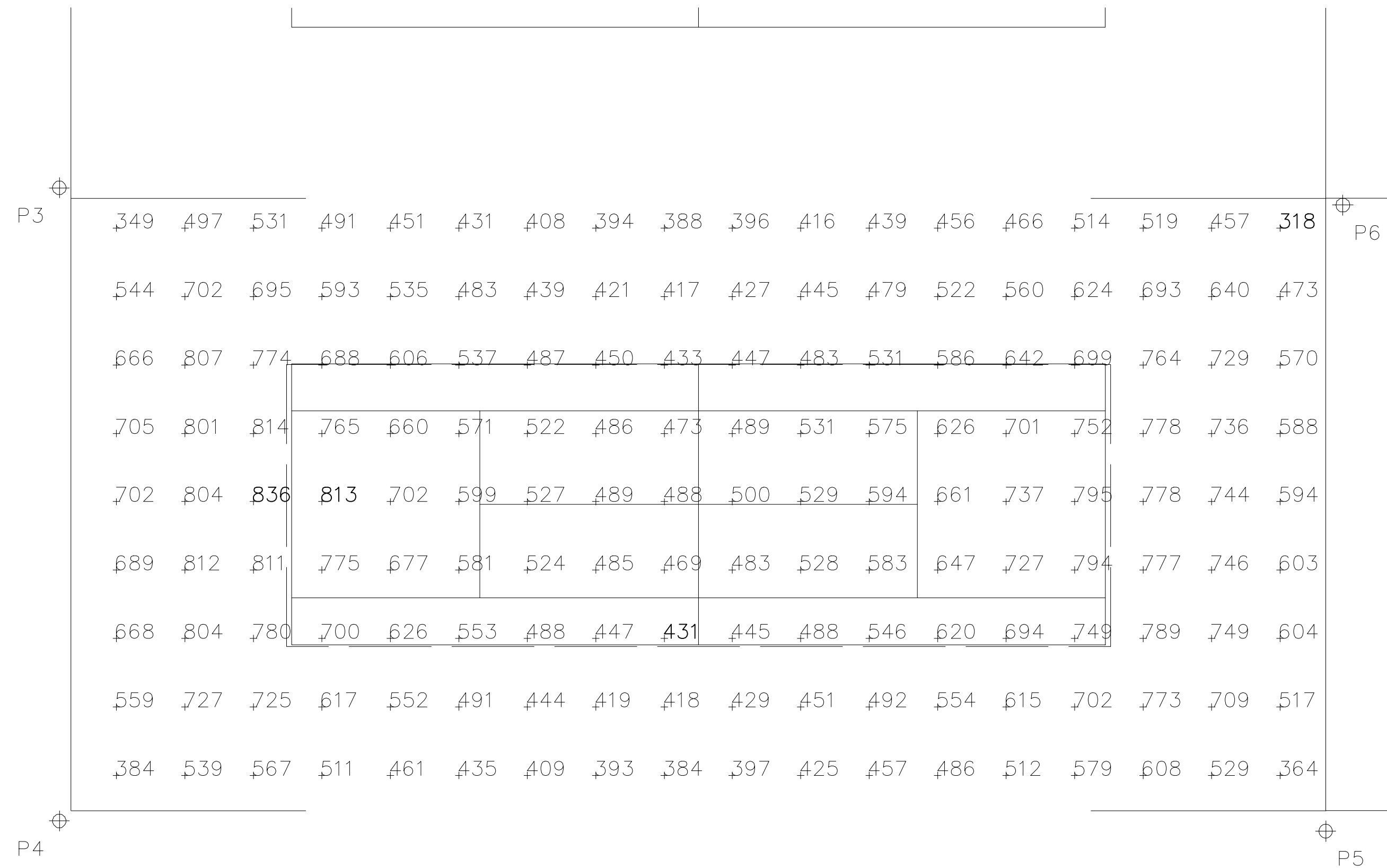
Installation Requirements: Results assume 73% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

ILLUMINATION SUMMARY

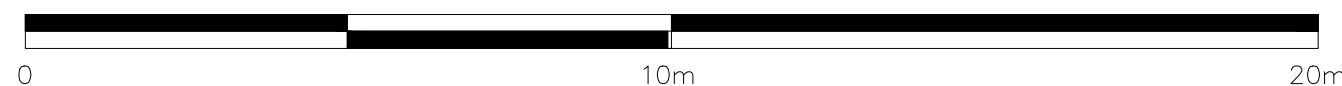
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						CHECKED BY :	
						DATE	
						APPROVED BY :	

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	P3, P5	12.3m	-	12.3m	TLC-LED-600	4	2	2
1	P4	12.3m	-	12.3m	TLC-LED-600	2	2	0
1	P6	12.3m	-	12.3m	TLC-LED-600	4/4*	2	6
4	TOTALS					18	8	10

* This structure utilizes a back-to-back mounting configuration



SCALE 1: 200



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

GRID SUMMARY

Name: Tennis #3
 Size: m x m
 Spacing: 2.0m x 2.0m
 Height: 1.0m above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL LUX		
	EPA	PPA
Scan Average:	577.21	587.26
Maximum:	835.79	813.00
Minimum:	317.65	430.87
Min / Avg:	0.55	0.73
Min / Max:	0.38	0.53
UG (adjacent pts):	1.56	1.17
CU:	0.73	
No. of Points:	162	60

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
 Luminaire Output: 65,600 lumens
No. of Luminaires: 8
 Total Load: 4.64 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>81,000	>81,000	>81,000

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

Guaranteed Performance: The ILLUMINATION described above is guaranteed


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 TITLE :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET CONTENTS :	DESIGN BY :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	REHABILITATION OF TENNIS COURT LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	<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	DRAWN BY :	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> E </div> <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> 3 </div>
						CHECKED BY :	
						DATE	
						APPROVED BY :	

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	P7	12.3m	-	12.3m	TLC-LED-600	4/4*	2	6
2	P8, P10	12.3m	-	12.3m	TLC-LED-600	4	2	2
1	P9	12.3m	-	12.3m	TLC-LED-600	2	2	0
4	TOTALS					18	8	10

* This structure utilizes a back-to-back mounting configuration



GRID SUMMARY	
Name:	Tennis #4
Size:	m x m
Spacing:	2.0m x 2.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	EPA	PPA	
Scan Average:	583.42	587.98	
Maximum:	849.17	836.39	
Minimum:	335.79	418.81	
Min / Avg:	0.58	0.71	
Min / Max:	0.40	0.50	
UG (adjacent pts):	1.58	1.19	
CU:	0.74		
No. of Points:	162	60	
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	65,600 lumens		
No. of Luminaires:	8		
Total Load:	4.64 kW		
	Lumen Maintenance		
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>81,000	>81,000	>81,000
Reported per TM-21-11. See luminaire datasheet for details.			

Guaranteed Performance: The ILLUMINATION described above is guaranteed


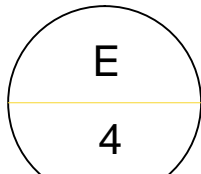
Warranty document and includes a 0.95 dirt depreciation factor.

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.

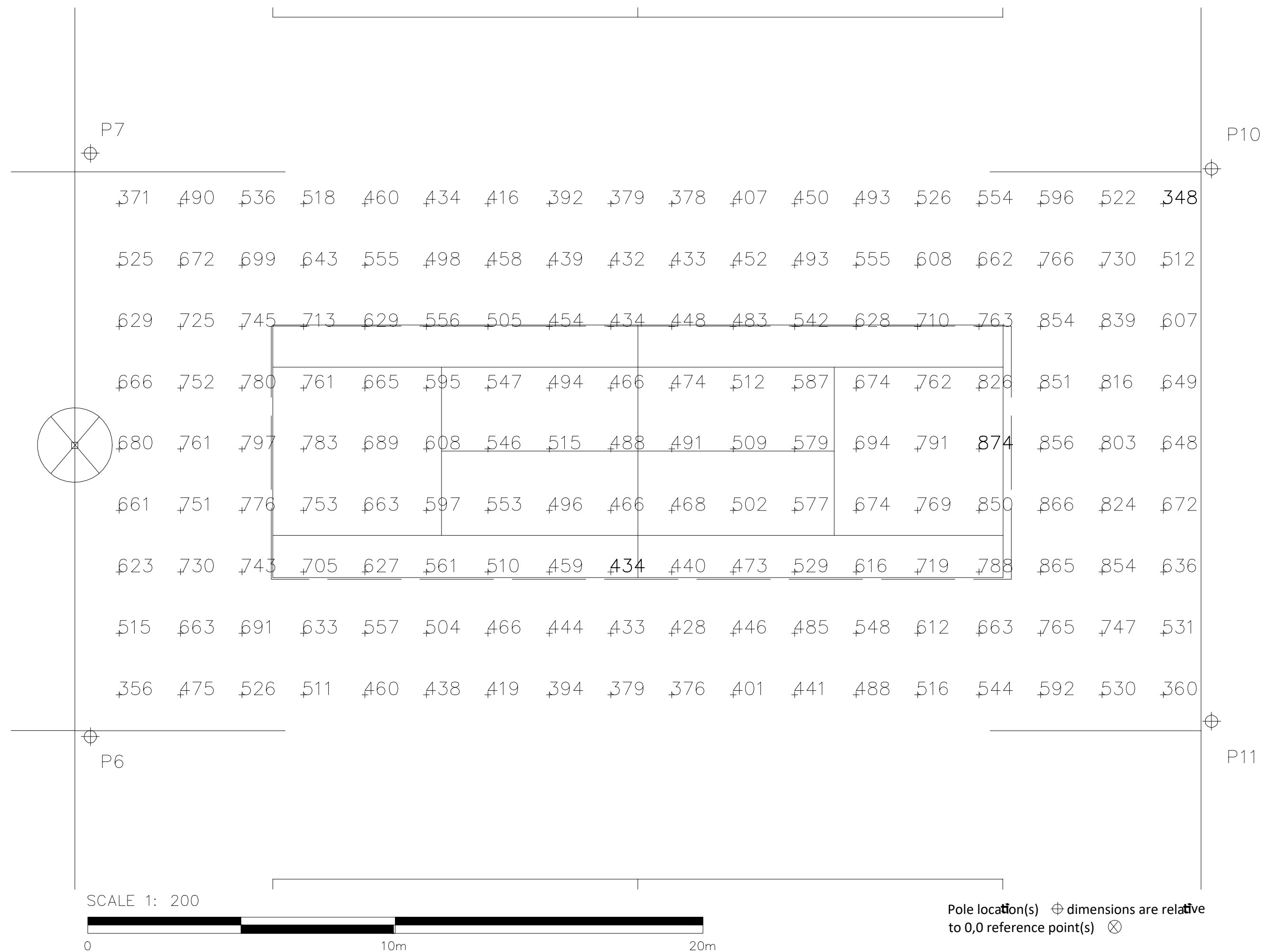
Installation Requirements: Results assume 73% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

ILLUMINATION SUMMARY

OWNER	PROJECT TITLE :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET CONTENTS :	DESIGN BY :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	REHABILITATION OF TENNIS COURT LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	DRAWN BY :	
						CHECKED BY :	
						DATE	
						APPROVED BY :	

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	P6-P7	12.3m	-	12.3m	TLC-LED-600	4/4*	2	6
2	P10-P11	12.3m	-	12.3m	TLC-LED-600	4	2	2
4	TOTALS					24	8	16

* This structure utilizes a back-to-back mounting configuration



GRID SUMMARY	
Name:	Tennis #5
Size:	m x m
Spacing:	2.0m x 2.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL LUX		
	EPA	PPA
Scan Average:	587.78	600.36
Maximum:	873.67	873.67
Minimum:	347.95	433.62
Min / Avg:	0.59	0.72
Min / Max:	0.40	0.50
UG (adjacent pts):	1.50	1.20
CU:	0.74	
No. of Points:	162	60
Color / CRI: 5700K - 75 CRI		
Luminaire Output: 65,600 lumens		
No. of Luminaires: 8		
Total Load: 4.64 kW		
Luminaire Type	L90 hrs	L80 hrs
TLC-LED-600	>81,000	>81,000
L70 hrs		
	>81,000	>81,000
Reported per TM-21-11. See luminaire datasheet for details.		

Guaranteed Performance: The ILLUMINATION described above is guaranteed
 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.

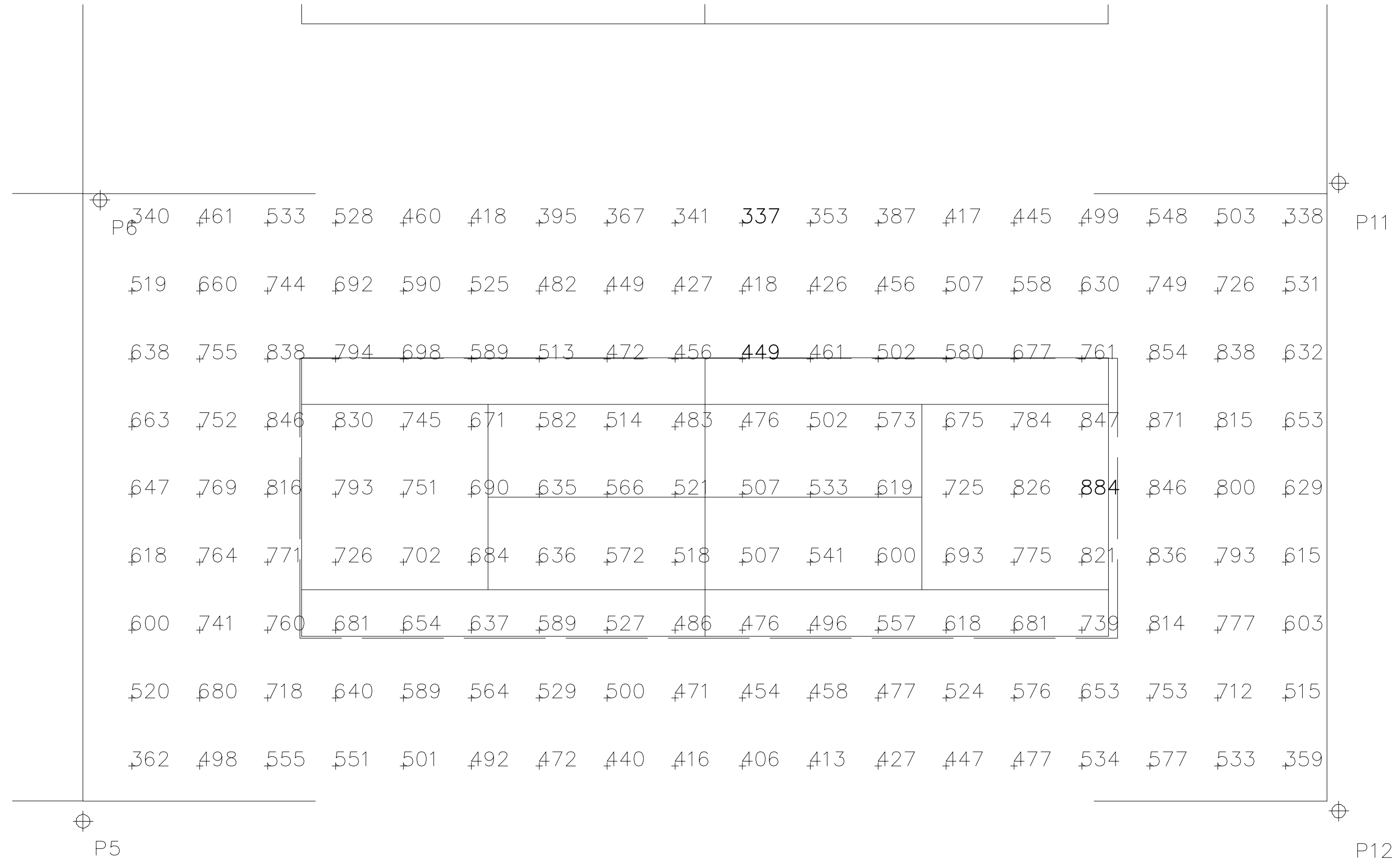
Installation Requirements: Results assume 73% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

ILLUMINATION SUMMARY

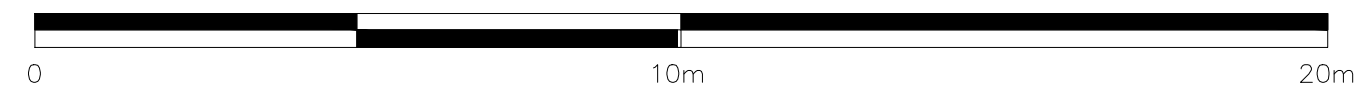
OWNER	PROJECT TITLE :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET CONTENTS :	DESIGN BY :	SHEET NO :
PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	REHABILITATION OF TENNIS COURT LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	DRAWN BY :	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> E 5 </div>
						CHECKED BY :	
						DATE	
						APPROVED BY :	

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	P5, P11	12.3m	-	12.3m	TLC-LED-600	4	2	2
1	P6	12.3m	-	12.3m	TLC-LED-600	4/4*	2	6
1	P12	12.3m	-	12.3m	TLC-LED-600	2	2	0
4	TOTALS					18	8	10

* This structure utilizes a back-to-back mounting configuration



SCALE 1: 200



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

GRID SUMMARY

Name: Tennis #6
 Size: m x m
 Spacing: 2.0m x 2.0m
 Height: 1.0m above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL LUX

	EPA	PPA
Scan Average:	595.77	626.67
Maximum:	884.25	884.25
Minimum:	336.53	449.46
Min / Avg:	0.56	0.72
Min / Max:	0.38	0.51
UG (adjacent pts):	1.57	1.19
CU:	0.75	
No. of Points:	162	60

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
 Luminaire Output: 65,600 lumens
 No. of Luminaires: 8
 Total Load: 4.64 kW

Luminaire Type	Lumen Maintenance		
	L90 hrs	L80 hrs	L70 hrs
TLC-LED-600	>81,000	>81,000	>81,000

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


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

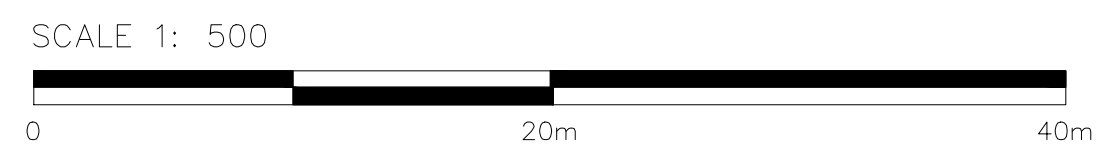
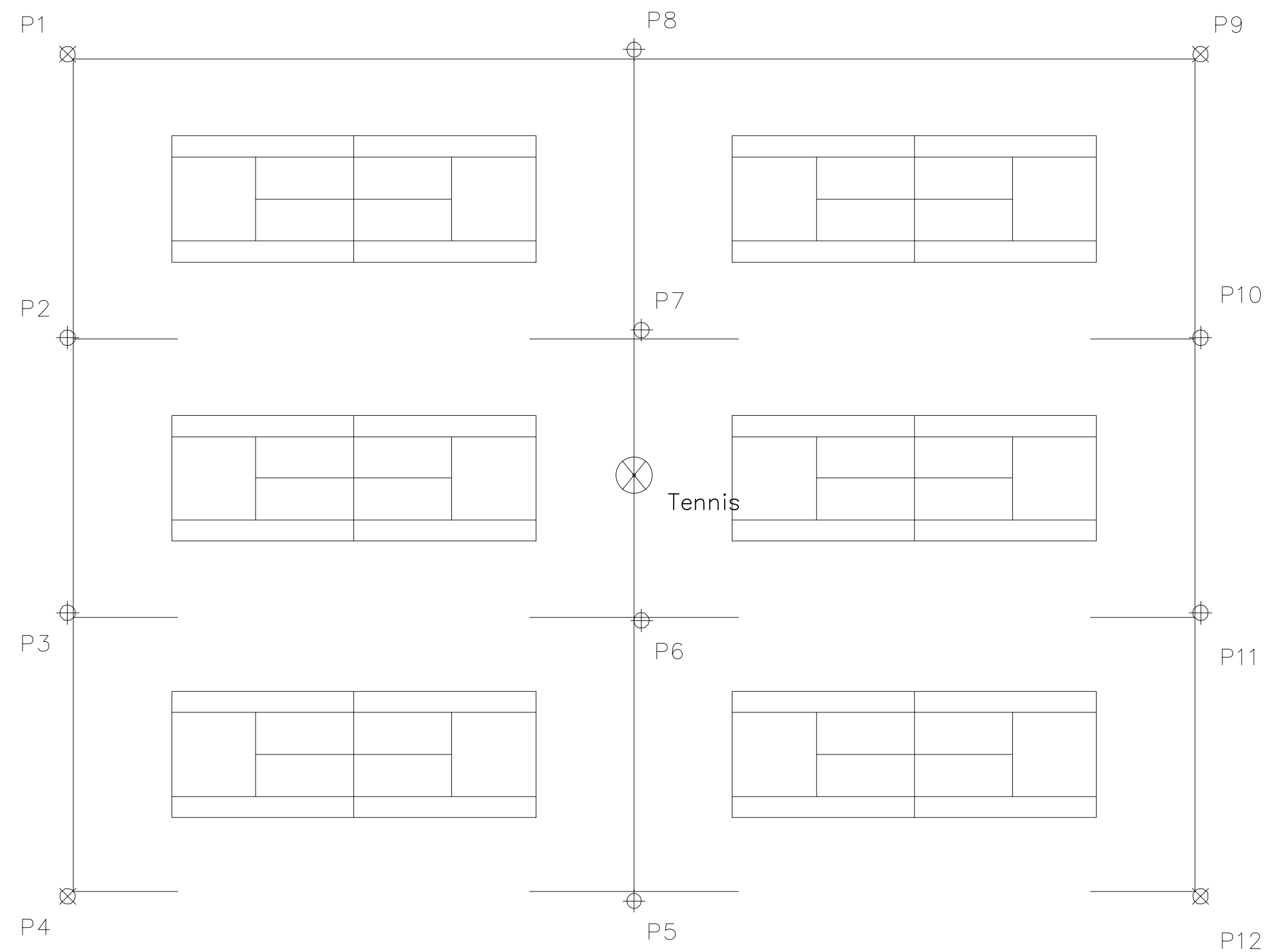
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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 TITLE :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET CONTENTS :	DESIGN BY :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	REHABILITATION OF TENNIS COURT LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	DRAWN BY :	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> E 6 </div>
						CHECKED BY :	
						DATE	
						APPROVED BY :	



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

EQUIPMENT LAYOUT

INCLUDES:

· Tennis

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


QTY	LOCATION	Pole			Luminaires		QTY / POLE
		SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE		
4	P1, P4 P9, P12	12.3m	-	12.3m	TLC-LED-600	2	
2	P6-P7	12.3m	-	12.3m	TLC-LED-600	4/4*	
6	P10-P11 P2-P3, P5 P8	12.3m	-	12.3m	TLC-LED-600	4	
12	TOTALS						48

* This structure utilizes a back-to-back mounting configuration

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-600-A	3.4	3.2	3.0	2.6	2.0	1.9	1.5

EQUIPMENT LAYOUT


OWNER	PROJECT TITLE :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET CONTENTS :	DESIGN BY :	SHEET NO :
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						CHECKED BY :	
						DATE	
						APPROVED BY :	

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1	12.3	12.3	2	TLC-LED-600	1.16 kW	A
P2	12.3	12.3	2	TLC-LED-600	1.16 kW	B
		12.3	2	TLC-LED-600	1.16 kW	A
P3	12.3	12.3	2	TLC-LED-600	1.16 kW	C
		12.3	2	TLC-LED-600	1.16 kW	B
P4	12.3	12.3	2	TLC-LED-600	1.16 kW	C
P5	12.3	12.3	2	TLC-LED-600	1.16 kW	F
		12.3	2	TLC-LED-600	1.16 kW	C
P6	12.3	12.3	2	TLC-LED-600	1.16 kW	E
		12.3	2	TLC-LED-600	1.16 kW	B
		12.3	2	TLC-LED-600	1.16 kW	C
		12.3	2	TLC-LED-600	1.16 kW	F
P7	12.3	12.3	2	TLC-LED-600	1.16 kW	B
		12.3	2	TLC-LED-600	1.16 kW	E
		12.3	2	TLC-LED-600	1.16 kW	D
		12.3	2	TLC-LED-600	1.16 kW	A
P8	12.3	12.3	2	TLC-LED-600	1.16 kW	A
		12.3	2	TLC-LED-600	1.16 kW	D
P9	12.3	12.3	2	TLC-LED-600	1.16 kW	D
P10	12.3	12.3	2	TLC-LED-600	1.16 kW	D
		12.3	2	TLC-LED-600	1.16 kW	E
P11	12.3	12.3	2	TLC-LED-600	1.16 kW	E
		12.3	2	TLC-LED-600	1.16 kW	F
P12	12.3	12.3	2	TLC-LED-600	1.16 kW	F
12			48		27.84 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A		4.64 kW	8
B		4.64 kW	8
C		4.64 kW	8
D		4.64 kW	8
E		4.64 kW	8
F		4.64 kW	8

PROJECT SUMMARY


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						DATE	
						APPROVED BY :	

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>81,000	>81,000	>81,000	48

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty	
		Ave	Min	Max	Min/Max	Min/Ave			
Tennis #1 (EPA)	Horizontal	582	333	827	0.40	0.57	A	8	
Tennis #1 (PPA)	Horizontal	590	428	825	0.52	0.72	A	8	
Tennis #2 (EPA)	Horizontal	602	327	918	0.36	0.54	B	8	
Tennis #2 (PPA)	Horizontal	646	457	918	0.50	0.71	B	8	
Tennis #3 (EPA)	Horizontal	577	318	836	0.38	0.55	C	8	
Tennis #3 (PPA)	Horizontal	587	431	813	0.53	0.73	C	8	
Tennis #4 (EPA)	Horizontal	583	336	849	0.40	0.58	D	8	
Tennis #4 (PPA)	Horizontal	588	419	836	0.50	0.71	D	8	
Tennis #5 (EPA)	Horizontal	588	348	874	0.40	0.59	E	8	
Tennis #5 (PPA)	Horizontal	600	434	874	0.50	0.72	E	8	
Tennis #6 (EPA)	Horizontal	596	337	884	0.38	0.56	F	8	
Tennis #6 (PPA)	Horizontal	627	449	884	0.51	0.72	F	8	

PROJECT SUMMARY

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 PHILIPPINE SPORTS COMMISSION <small>RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small>	REHABILITATION OF TENNIS COURT <small>LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA</small>	<u>ENGR. PEDRO I. PINEDA JR.</u> <small>HEAD - ENGINEERING UNIT</small>	<u>DIR. MERLITA R. IBAY</u> <small>DEPUTY EXECUTIVE DIRECTOR</small>	<u>HON. WILLIAM I. RAMIREZ</u> <small>CHAIRMAN</small>	AS SHOWN	DRAWN BY :	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> E <hr style="width: 50%; margin: 0 auto;"/> 9 </div> </div>
						CHECKED BY :	
						DATE	
						APPROVED BY :	

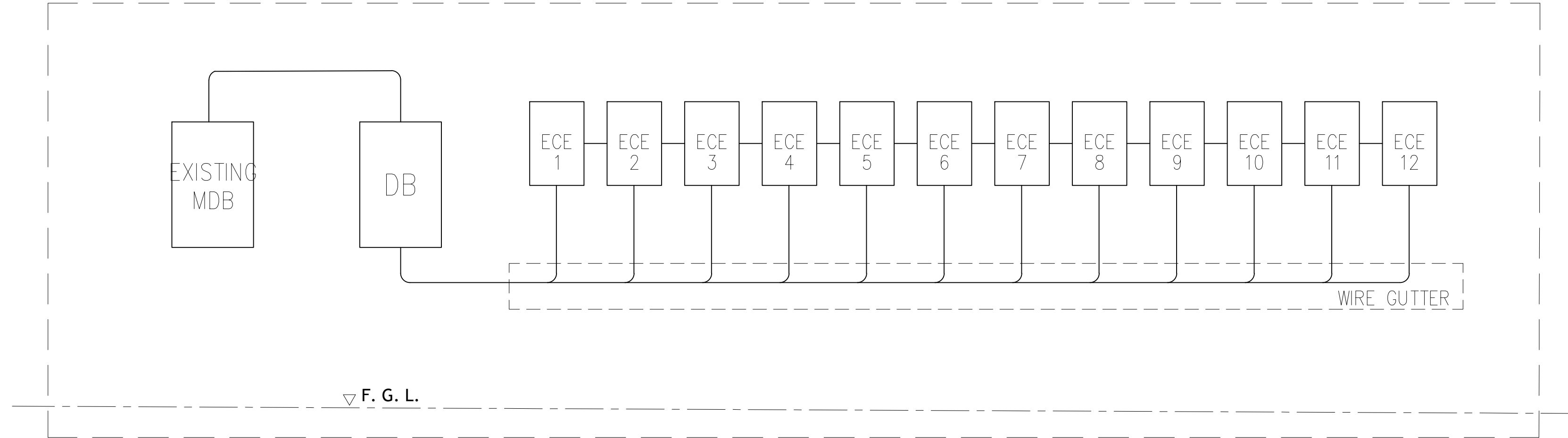
SCHEDULE OF LOADS

DB - Tennis Court					Mounting : Surface Mounted						
Ckt. No.	Load Description	No. of Lights	Watts	FLA	3 Phase			Circuit Breaker		Wire	Conduit
					AB	BC	CA	AT	P	MM ²	MM
1	ECE - 1	4	2,320	3.2	12.80			30	2	3 - 5.5	20
2	ECE - 2	4	2,320	3.2	12.80			30	2	3 - 5.5	20
3	ECE - 3	4	2,320	3.2			12.80	30	2	3 - 5.5	20
4	ECE - 4	4	2,320	3.2			12.80	30	2	3 - 5.5	20
5	ECE - 5	4	2,320	3.2		12.80		30	2	3 - 5.5	20
6	ECE - 6	4	2,320	3.2		12.80		30	2	3 - 5.5	20
7	ECE - 7	4	2,320	3.2	12.80			30	2	3 - 5.5	20
8	ECE - 8	4	2,320	3.2	12.80			30	2	3 - 5.5	20
9	ECE - 9	4	2,320	3.2			12.80	30	2	3 - 5.5	20
10	ECE - 10	4	2,320	3.2			12.80	30	2	3 - 5.5	20
11	ECE - 11	4	2,320	3.2		12.80		30	2	3 - 5.5	20
12	ECE - 12	4	2,320	3.2		12.80		30	2	3 - 5.5	20
13	Spare		2,320	3.2	12.80			30	2		
14	Spare		2,320	3.2	12.80			30	2		
Total Connected Loads			32,480		76.80	57.60	76.80				
Computations : I = 32,480 / 220 x 1.73 x 80% P.F. = 106.55 Amps @100% D.F. I = 106.55 Amperes					Use: 3 - 50 mm ² THHN 1 -14 mm ² Ground Wire			Use : 50 mm Ø		Circuit Breaker : 200 AT, 3P, 220 V MCCB	

SCHEDULE OF LOADS

ECE Panel (Tennis Court) - Typical 1 - 12											
Ckt. No.	Load Description	Volt	Watts	FLA	1 Phase			CB/Fuse		Wire	Ground
								AT	P	MM ²	MM ²
1	1 -TLC - LED 600	220	580	3.2		3.2		10	2	2 - 3.5	1 - 2.0
2	1 - TLC - LED 600	220	580	3.2		3.2		10	2	2 - 3.5	1 - 2.0
3	1 - TLC - LED 600	220	580	3.2		3.2		10	2	2 - 3.5	1 - 2.0
4	1 - TLC - LED 600	220	580	3.2		3.2		10	2	2 - 3.5	1 - 2.0
Total Connected Load			2,320			12.80					
Computations : I = 3,480 / 220 @ 100% Demand Factor = 15.82 Amperes					Use: 2- 5.5 mm ² THHN 1 - 5.5 mm ² Ground Wire			Use: 20 mm Ø		Circuit Breaker : 30AT, 2P, 220 V MCCB	

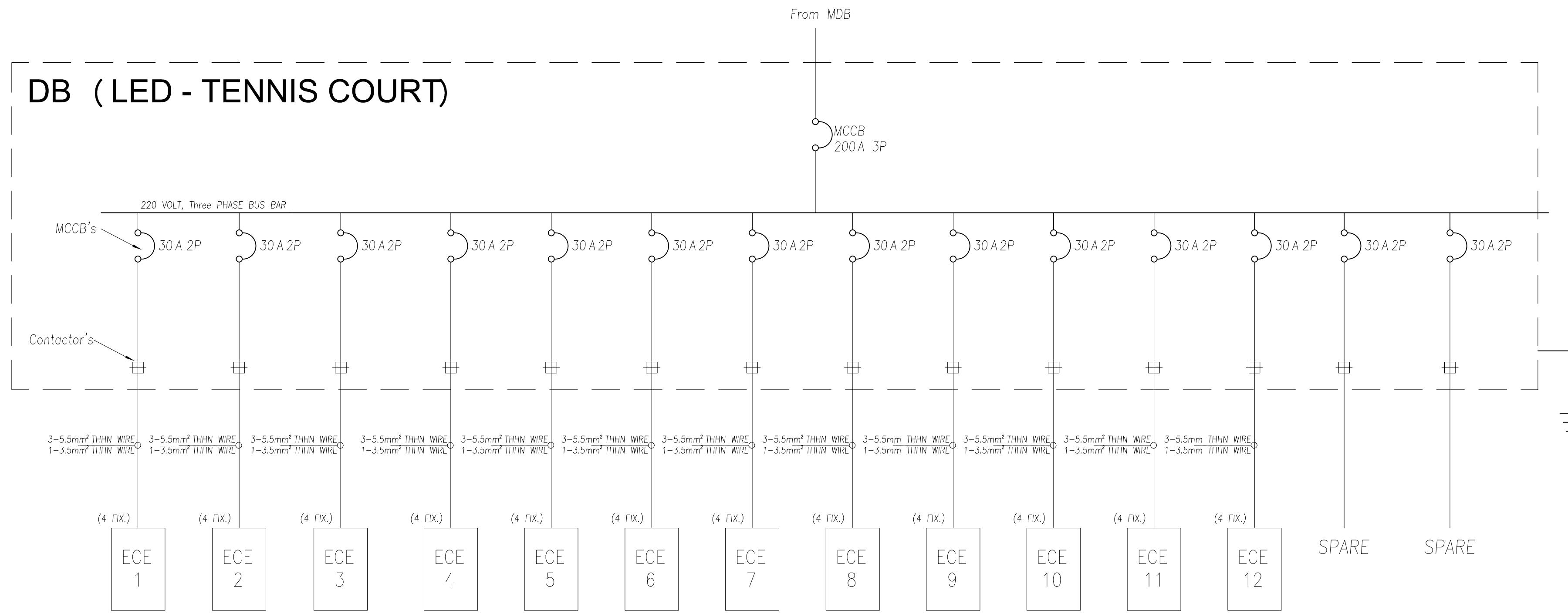
ELECTRICAL ROOM (TENNIS COURT)



NOTE : FOR SIZES OF CABLES, WIRES AND CONDUITS, SEE ELECTRICAL LOAD SCHEDULE AND DETAILS


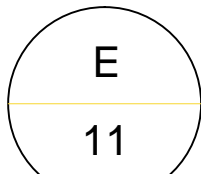
POWER SINGLE LINE DIAGRAM

NOT TO SCALE



DISTRIBUTION BOARD DETAIL (ECE PANEL)

NOT TO SCALE

OWNER	PROJECT TITLE :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET CONTENTS :	DESIGN BY :	SHEET NO :
 PHILIPPINE SPORTS COMMISSION RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	REHABILITATION OF TENNIS COURT LOCATION: RMSC, PABLO OCAMPO SR. ST., MALATE, MANILA	ENGR. PEDRO I. PINEDA JR. HEAD - ENGINEERING UNIT	DIR. MERLITA R. IBAY DEPUTY EXECUTIVE DIRECTOR	HON. WILLIAM I. RAMIREZ CHAIRMAN	AS SHOWN	DRAWN BY :	
						CHECKED BY :	
						DATE	
						APPROVED BY :	