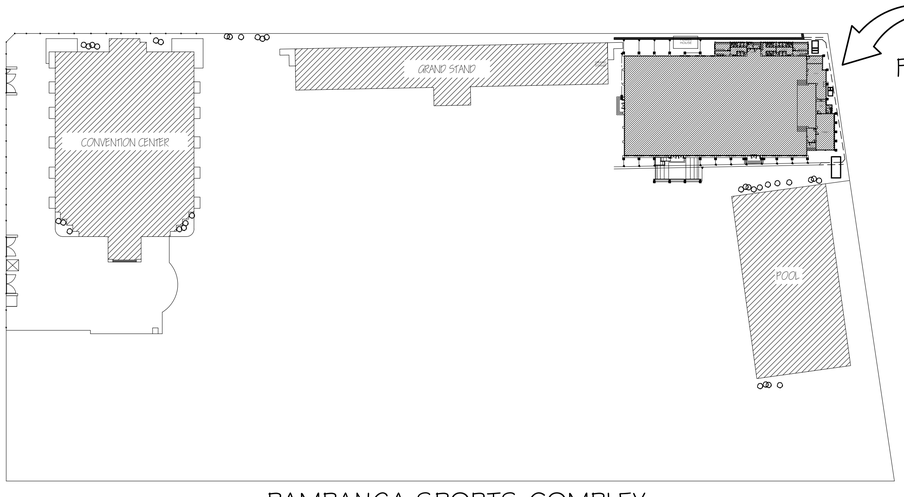
PERSPECTIVE



SITE LOCATION PLAN

SCALE 1 : 1000 MTS.

PAMPANGA SPORTS COMPLEX

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OFFICE OF THE BUILDING OFFICIAL

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MECHANICAL

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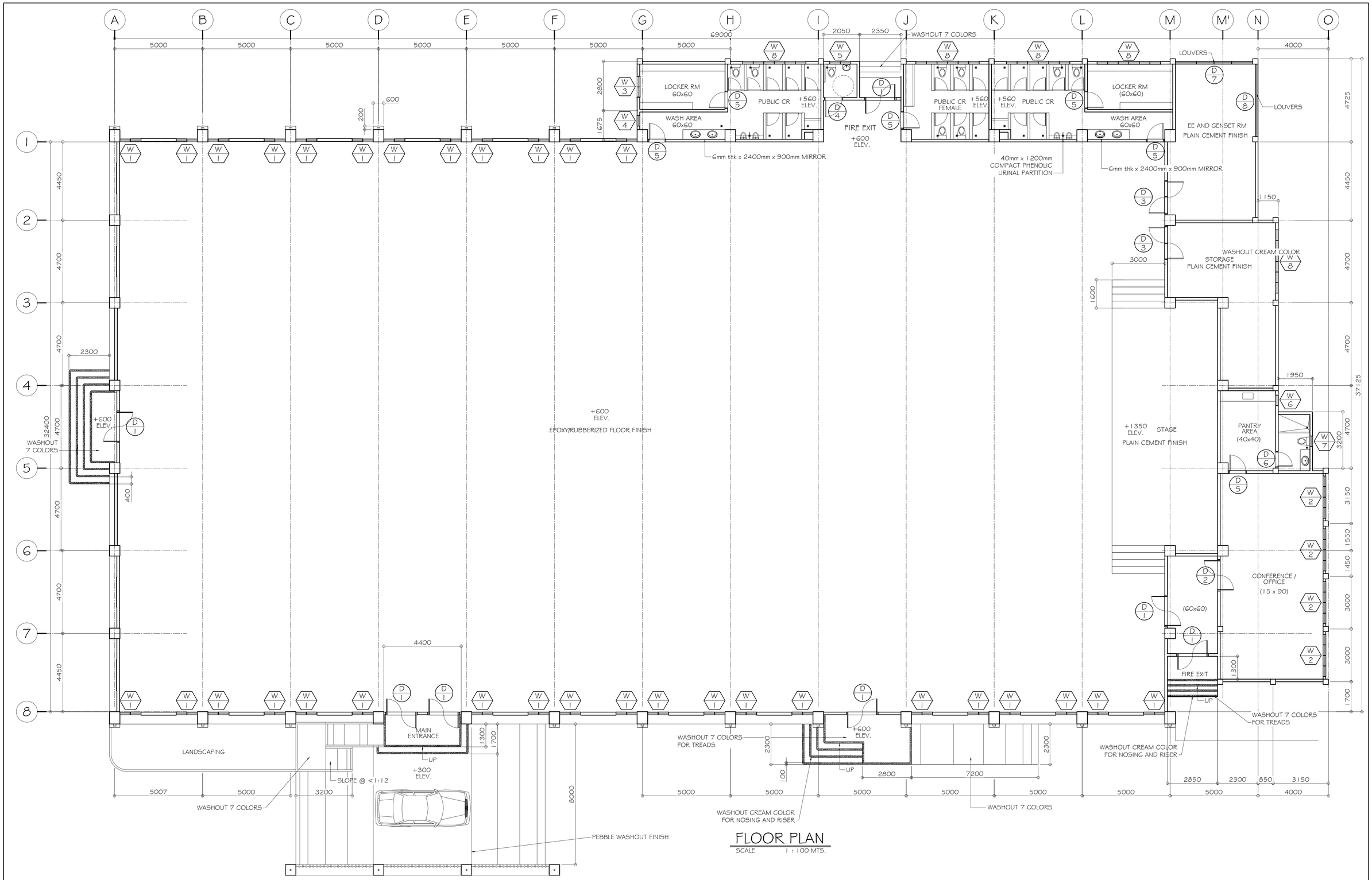

FLOOR PLAN

SCALE 1 : 100 MTS.

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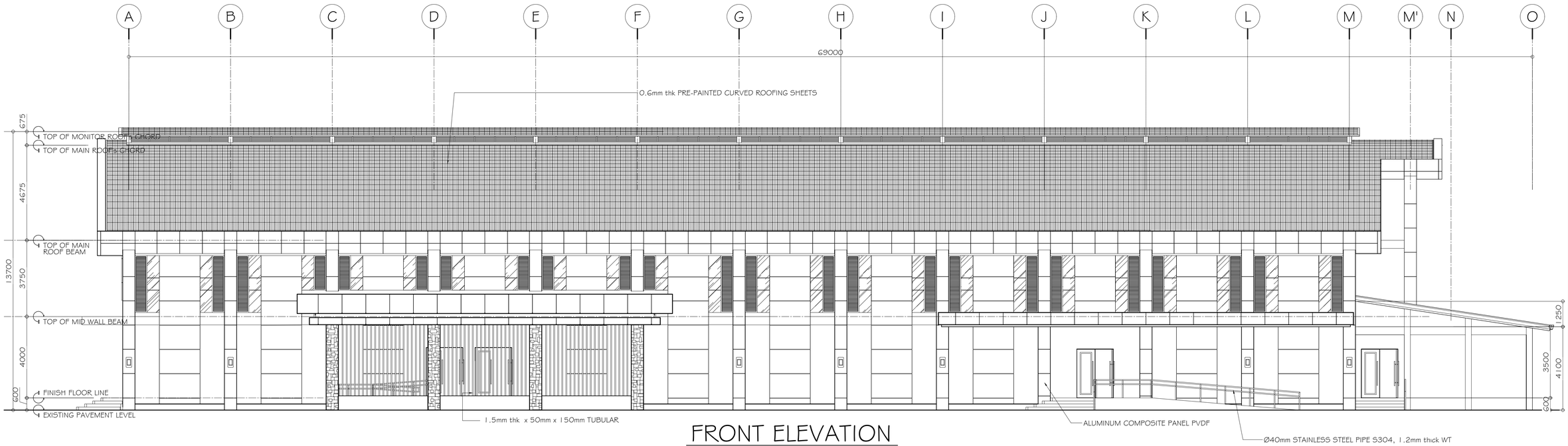

FRONT ELEVATION

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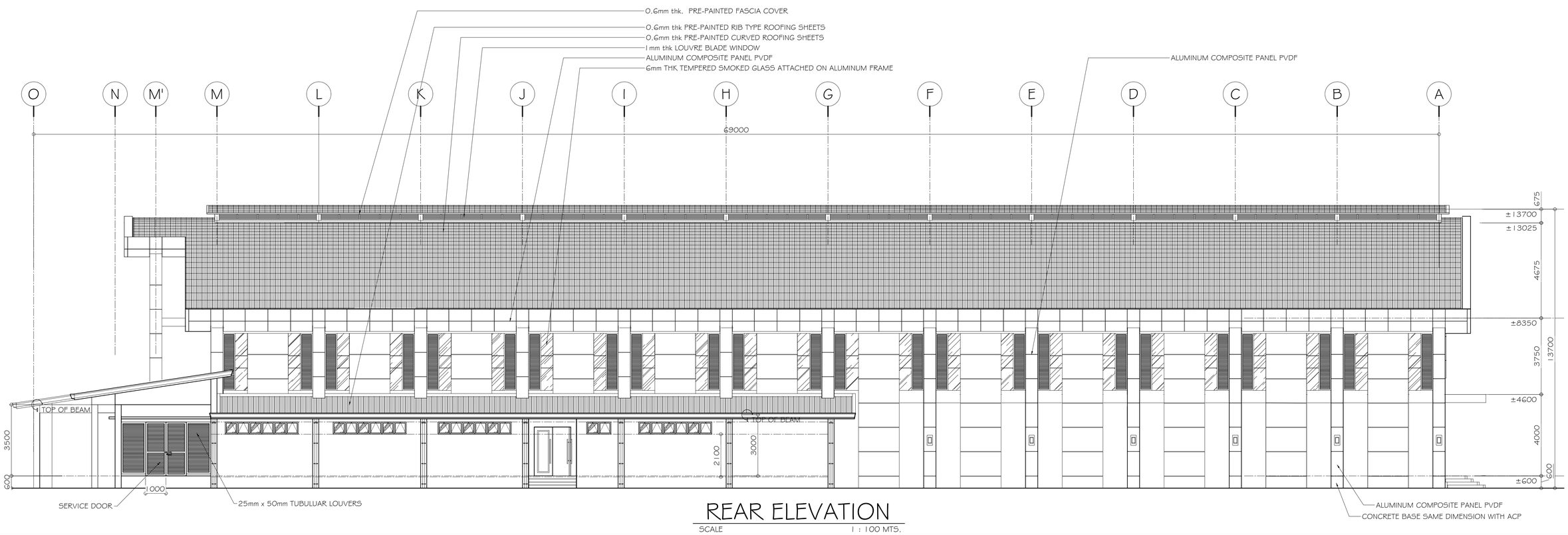

REAR ELEVATION

SCALE 1 : 100 MTS.

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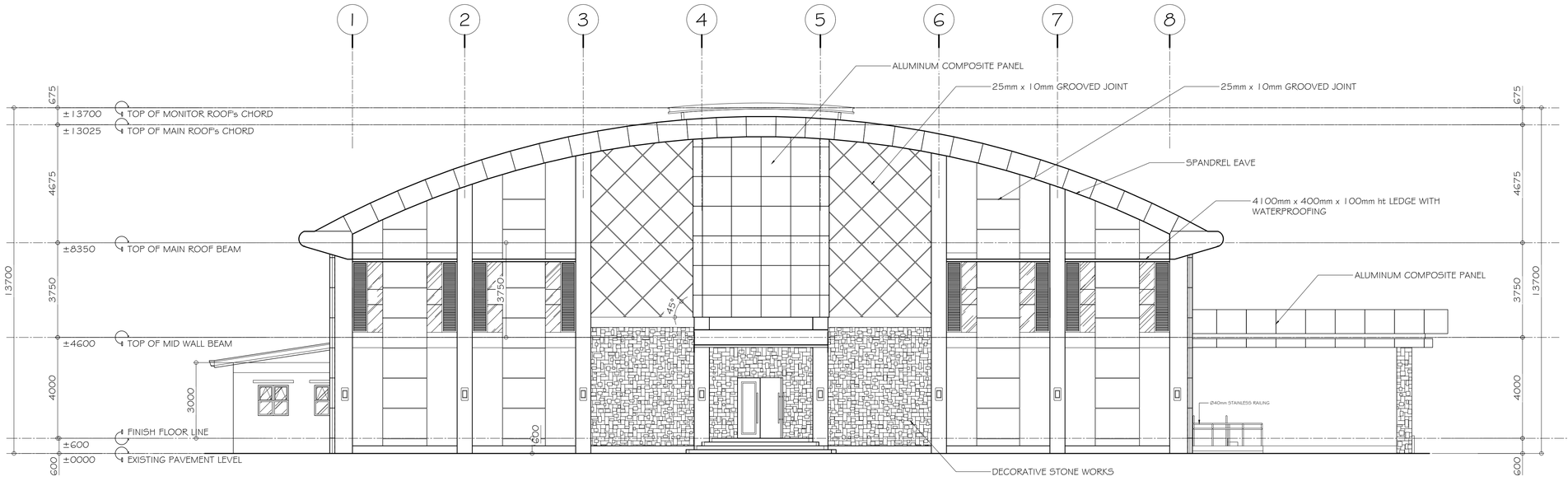

LEFT SIDE ELEVATION

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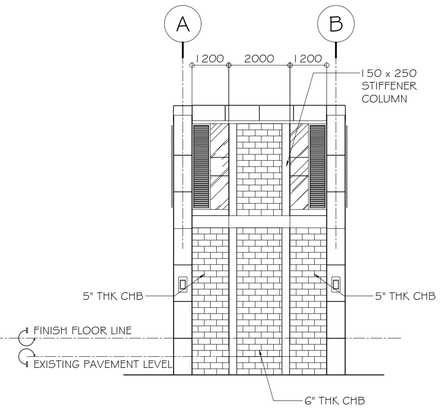
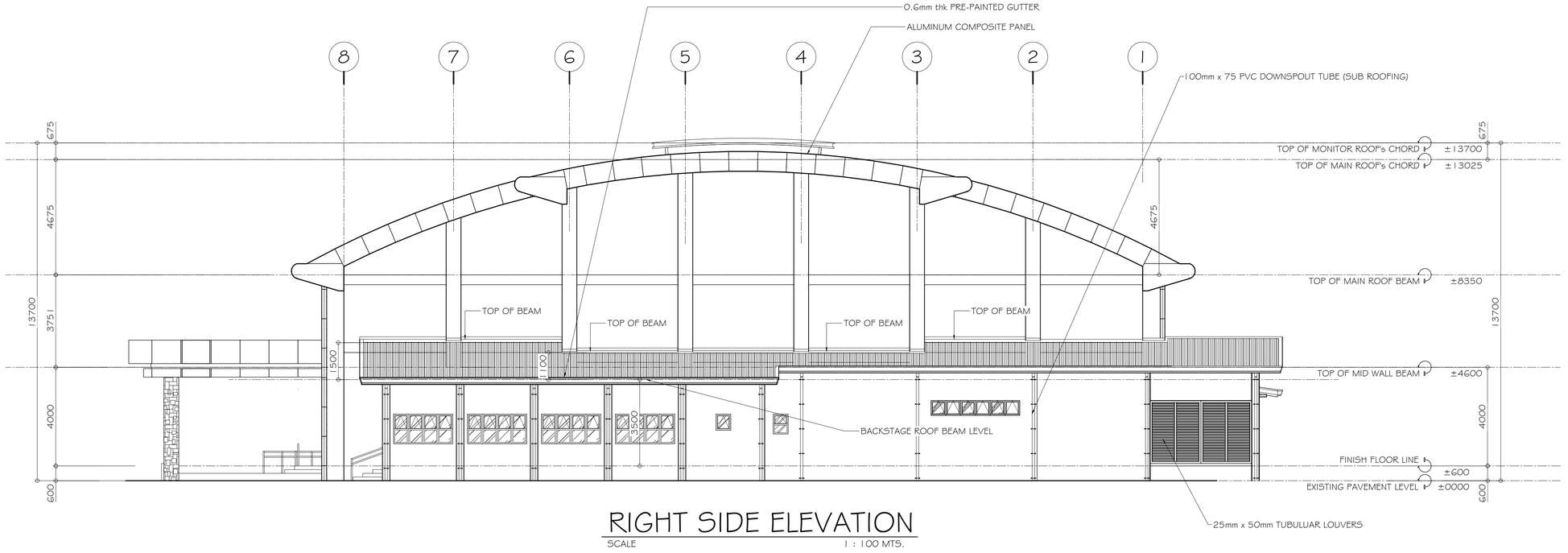


DETAILED ELEVATION OF WALL

SCALE 1 : 100 MTS.



RIGHT SIDE ELEVATION

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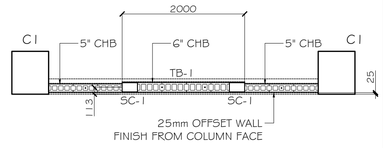

DETAILED WALL PLAN

SCALE 1 : 50 MTS.

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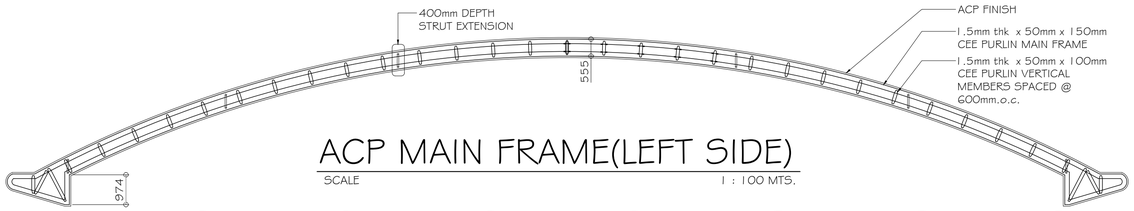
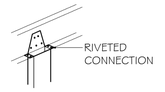
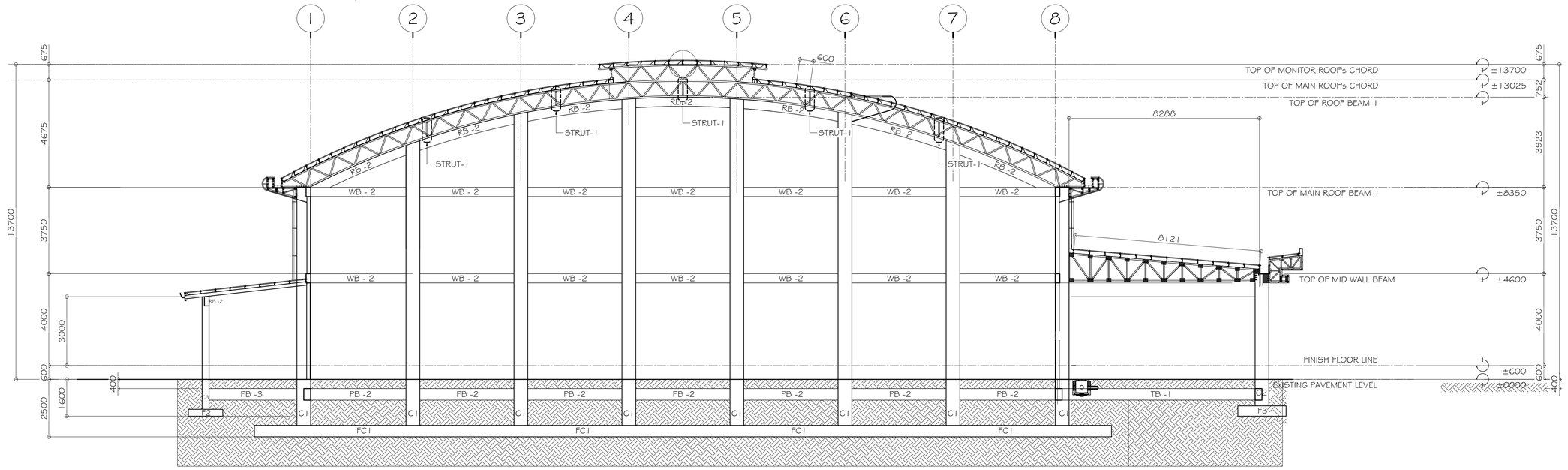




ACP MAIN FRAME(LEFT SIDE)

SCALE 1 : 100 MTS.



CROSS SECTION

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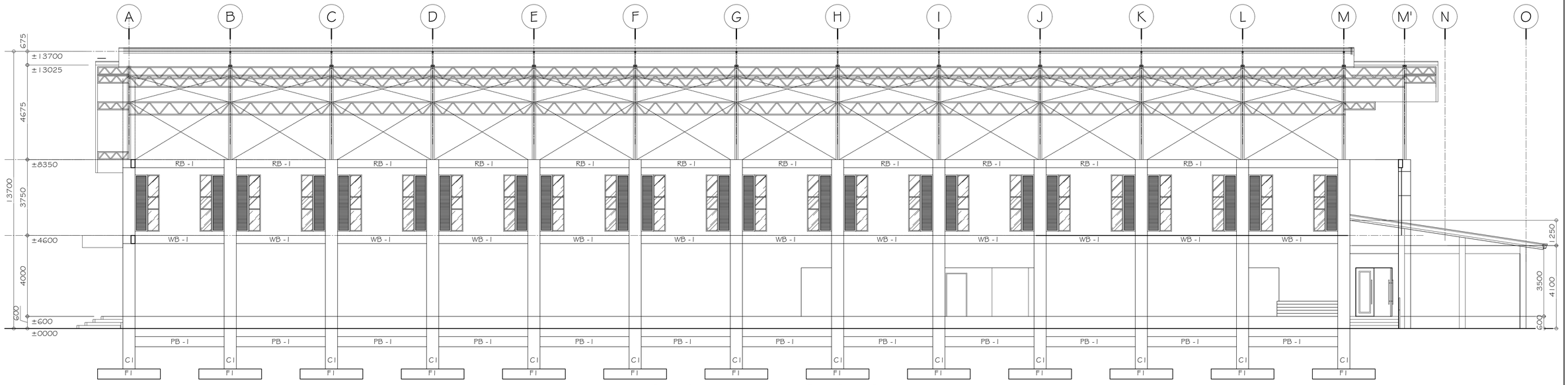

LONGITUDINAL SECTION

SCALE 1 : 100 MTS.

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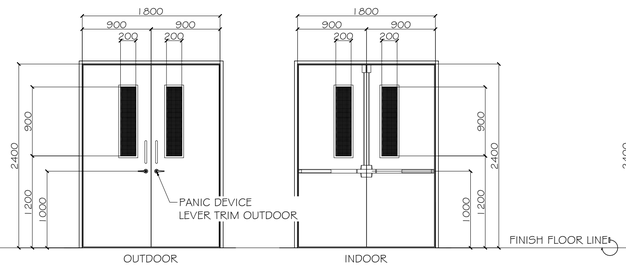
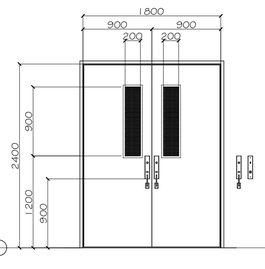


FIRE RATED DOOR
METAL DOOR/ 1.5mm thk METAL JAMB
6mm thk WIRED GLASS
2 - Ø25mm x 300mm PULL HANDLE
PANIC DEVICE W/ ROSE LEVER ON OTHER SIDE
7 - SETS

DETAIL OF D-1

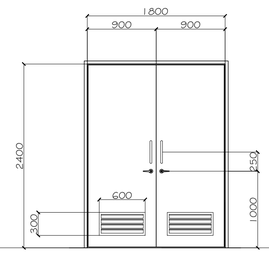
SCALE 1 : 40 MTS.



PANEL DOOR
GALVANIZED DOOR JAMB
1 - SET

DETAIL OF D-2

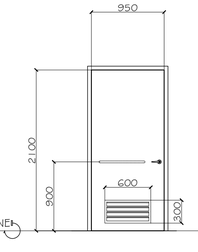
SCALE 1 : 40 MTS.



FIRE RATED DOOR
METAL DOOR/ 1.5mm thk METAL JAMB
LOUVERED VENT
2 - Ø25mm x 300mm PULL HANDLE
COMMERCIAL GRADE STAINLESS LEVER TYPE LOCKSET
2 - SETS

DETAIL OF D-3

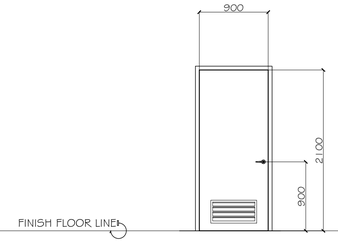
SCALE 1 : 40 MTS.



METAL DOOR / 1.5mm thk METAL JAMB
Ø25mm x 600mm STAINLESS PULL HANDLE
CYLINDRICAL LEVER TYPE LOCKSET
W/ LOUVER VENT
1 - SET

DETAIL OF D-4

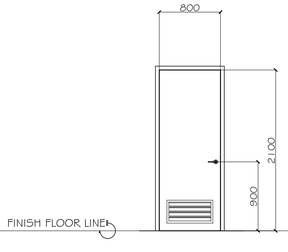
SCALE 1 : 40 MTS.



METAL DOOR / 1.5mm thk METAL JAMB
W/ LOUVER VENT
CYLINDRICAL LEVER TYPE LOCKSET
6 - SETS

DETAIL OF D-5

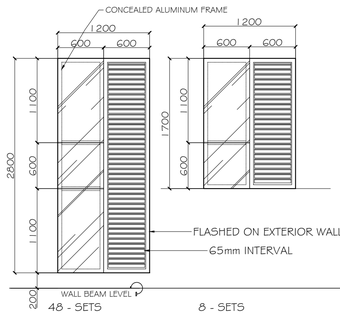
SCALE 1 : 40 MTS.



METAL DOOR / 1.5mm thk METAL JAMB
W/ LOUVER VENT
CYLINDRICAL LEVER TYPE LOCKSET
1 - SET

DETAIL OF D-6

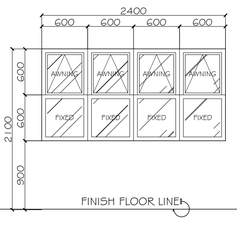
SCALE 1 : 40 MTS.



6mm thk TEMPERED BRONZE GLASS
ON ALUMINUM FIXED FRAME
CURTAIN WALL TYPE (CONCEALED FRAME)
G.I. LOUVRED BLADES ON G.I. FRAME

DETAIL OF W-1

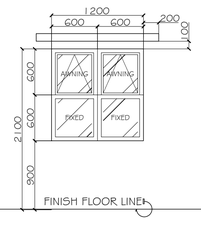
SCALE 1 : 30 MTS.



6mm thk TEMPERED BRONZE GLASS
ON UPVC FRAME
FIXED/AWNING COMBINATION
4 - SETS

DET. OF W-2

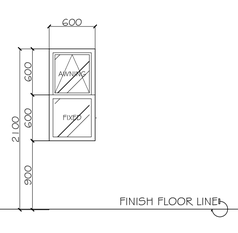
SCALE 1 : 40 MTS.



6mm thk TEMPERED BRONZE GLASS
ON UPVC FRAME
FIXED/AWNING COMBINATION
1 - SET

DET. OF W-3

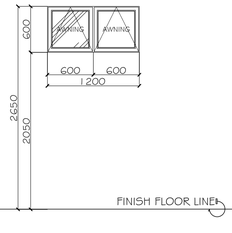
SCALE 1 : 40 MTS.



6mm thk TEMPERED BRONZE GLASS
ON UPVC FRAME
FIXED/AWNING COMBINATION
1 - SET

DET. OF W-4

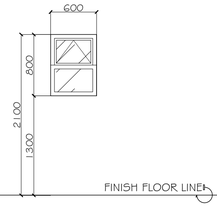
SCALE 1 : 40 MTS.



6mm thk TEMPERED BRONZE GLASS
ON UPVC FRAME
AWNING COMBINATION
1 - SET

DET. OF W-5

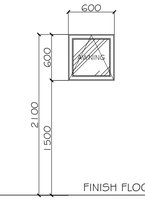
SCALE 1 : 40 MTS.



6mm thk TEMPERED BRONZE GLASS
ON UPVC FRAME
FIXED/AWNING COMBINATION
1 - SET

DET. OF W-6

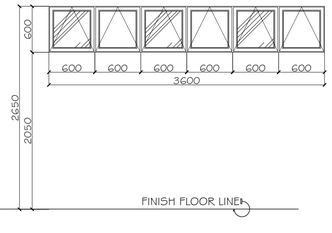
SCALE 1 : 40 MTS.



6mm thk TEMPERED BRONZE GLASS
ON UPVC FRAME
AWNING COMBINATION
1 - SET

DET. OF W-7

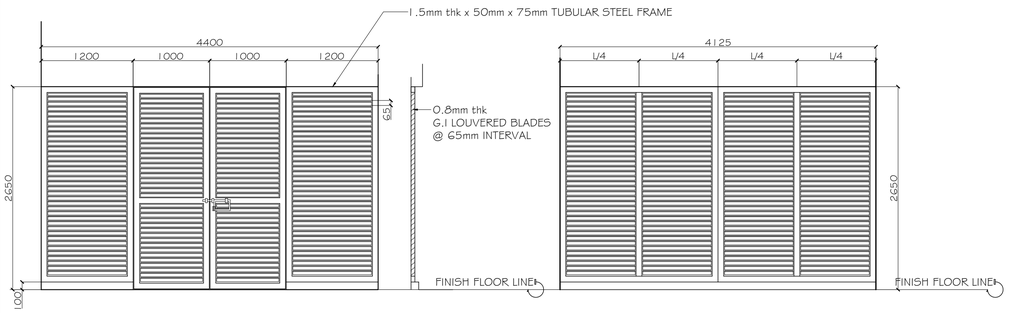
SCALE 1 : 40 MTS.



6mm thk TEMPERED BRONZE GLASS
ON UPVC FRAME
AWNING COMBINATION
5 - SETS

DET. OF W-8

SCALE 1 : 40 MTS.



LOUVERED DOOR ON 1.5mm thk x 50mm x 75mm TUBULAR FRAME
WITH BARREL BOLT
1 - SET

DETAIL OF D-7

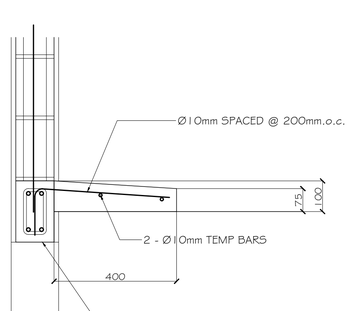
SCALE 1 : 40 MTS.

LOUVERED WALL ON 1.5mm thk x 50mm x 75mm TUBULAR FRAME

1 - SET

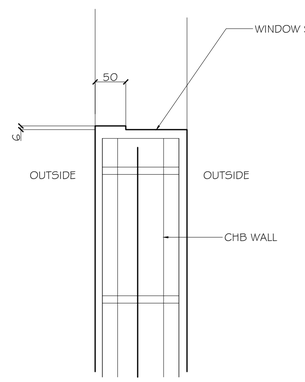
DETAIL OF D-8

SCALE 1 : 40 MTS.



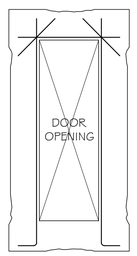
WINDOW CANOPY SECTION

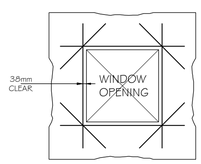
SCALE 1 : 10 MTS.



EDGE RABBET DETAIL (VACIADA)

SCALE 1 : 5 MTS.





NOTE:
PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENING

SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.

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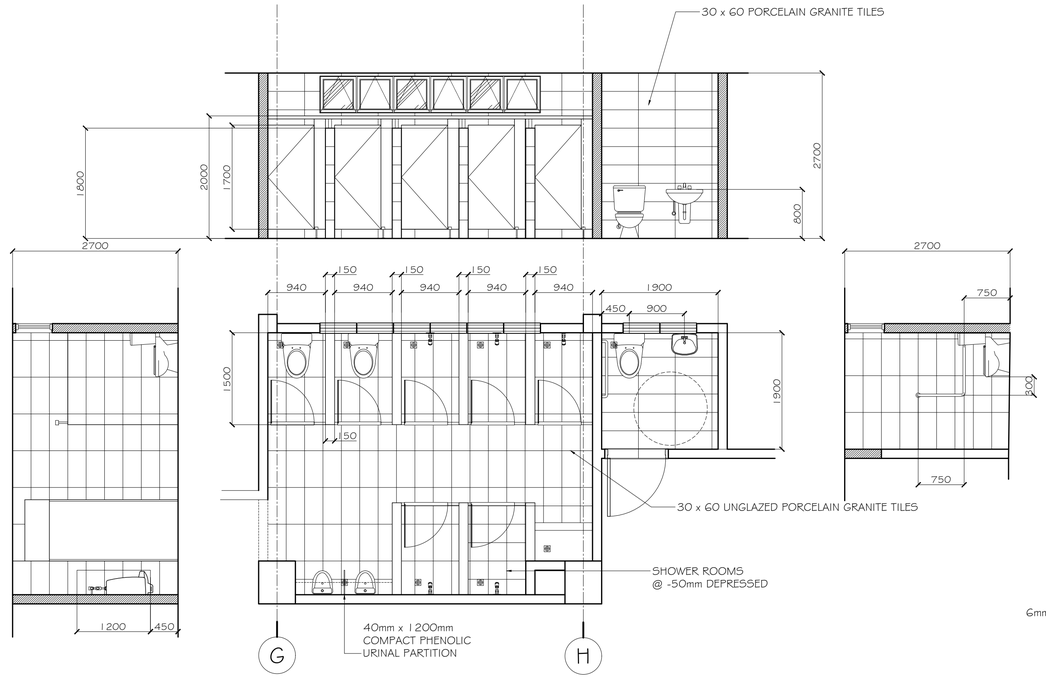

DETAIL OF CR @ G-H

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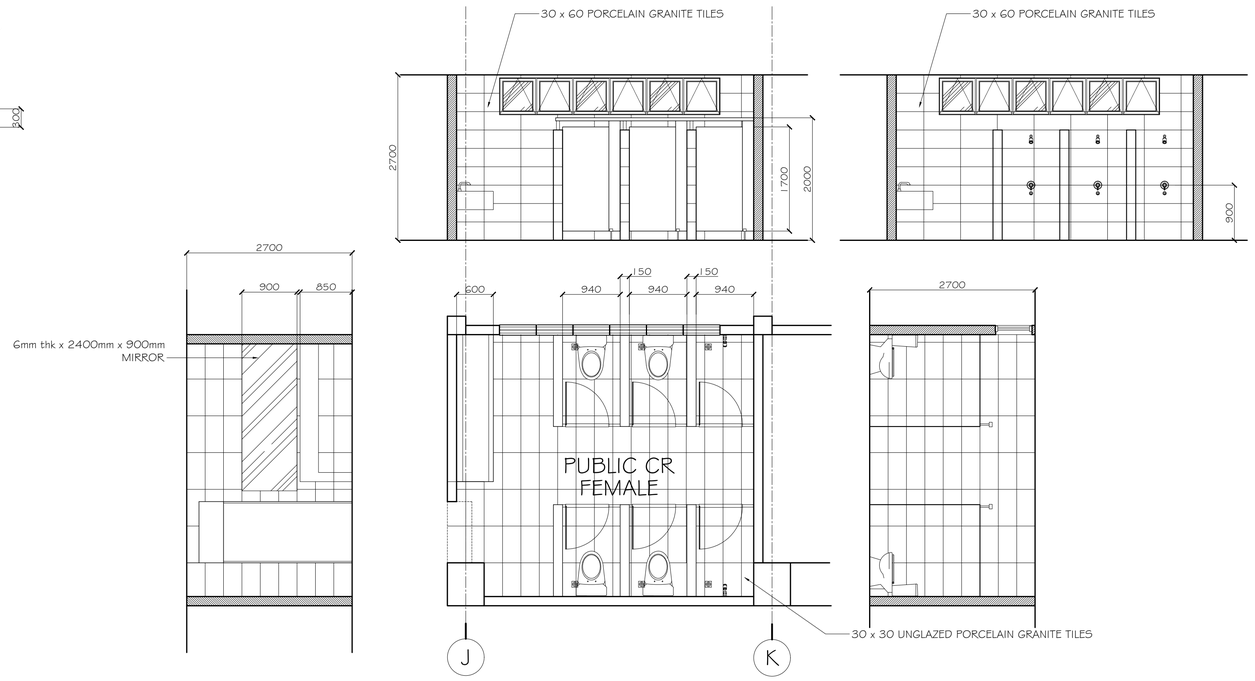

DETAIL OF CR @ J-K

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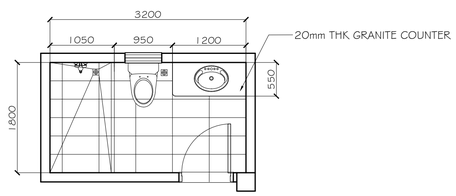

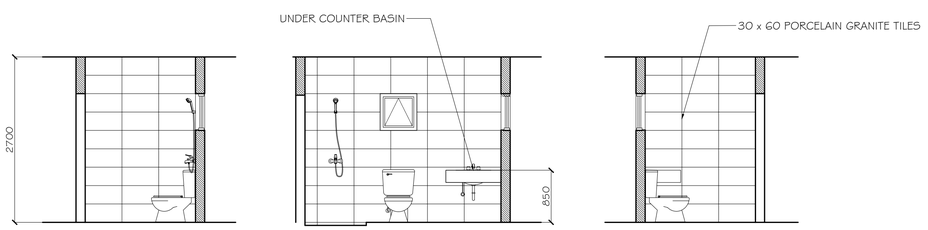

DETAIL OF VIP CR

SCALE 1 : 50 MTS.

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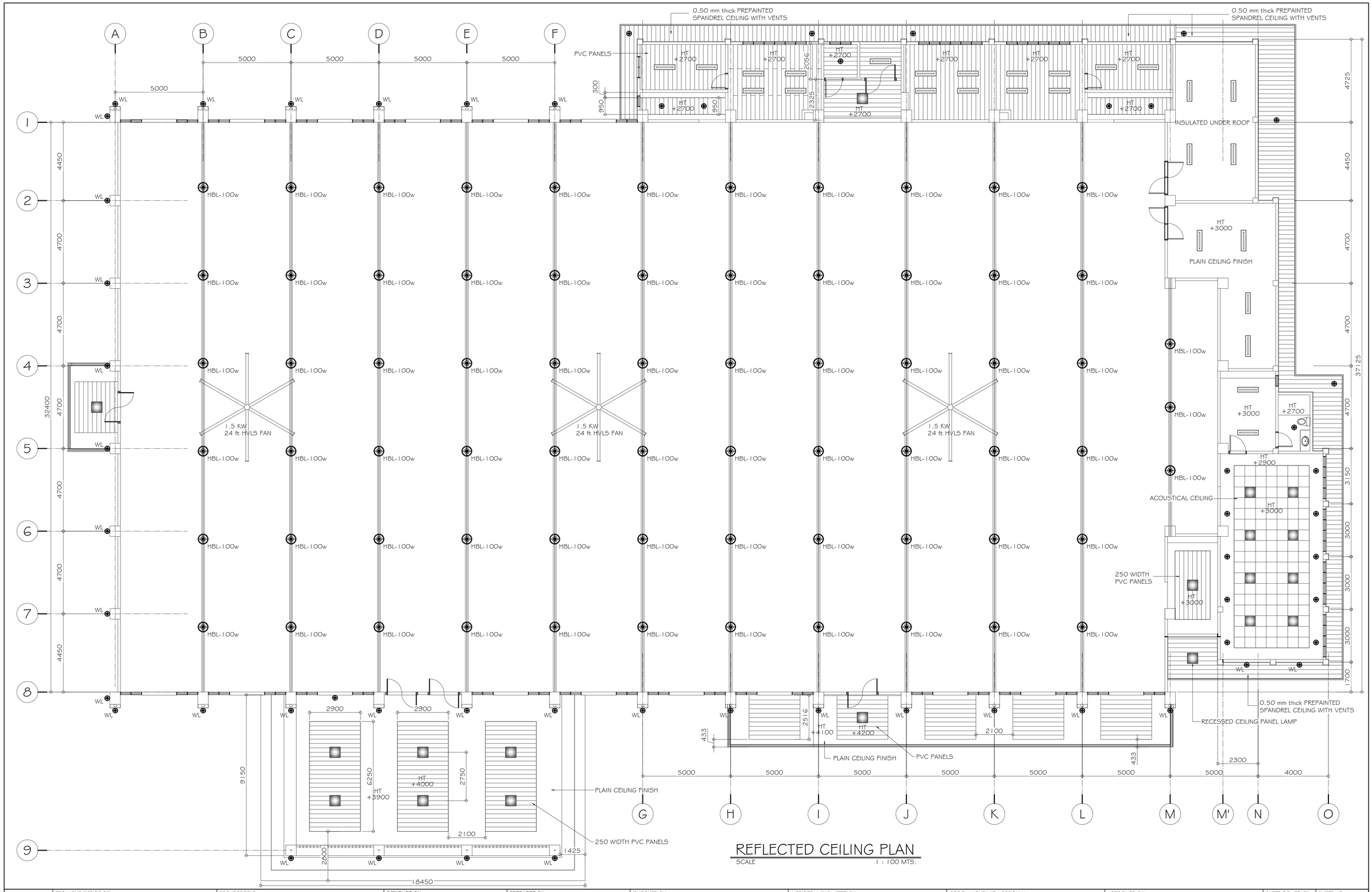

REFLECTED CEILING PLAN

SCALE 1 : 100 MTS.

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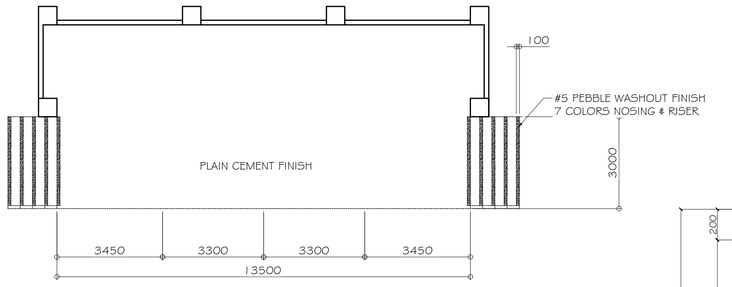
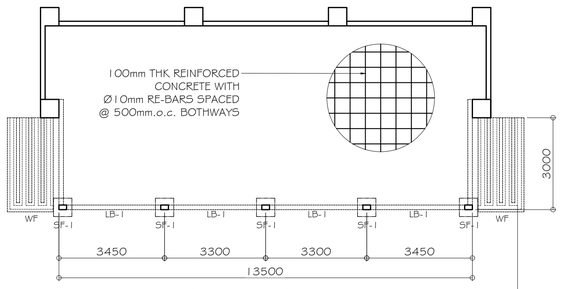


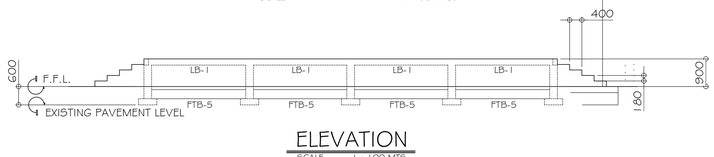
FLOOR PLAN

SCALE 1 : 100 MTS.



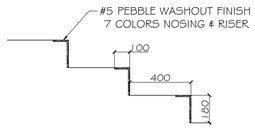
FOUNDATION PLAN

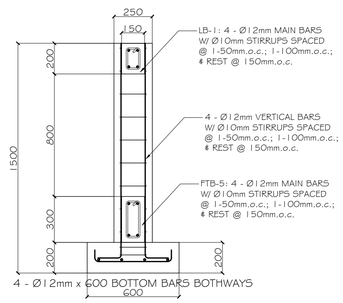
SCALE 1 : 100 MTS.



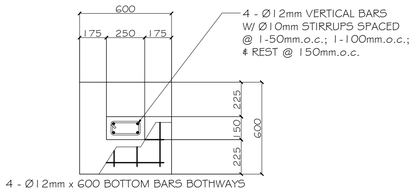
ELEVATION

SCALE 1 : 100 MTS.





SECTION

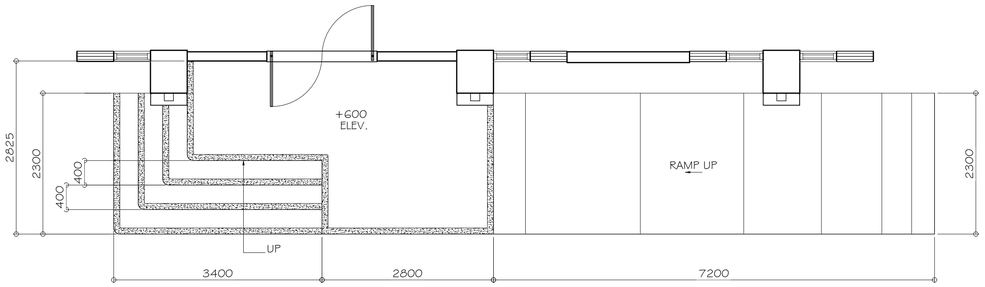


PLAN

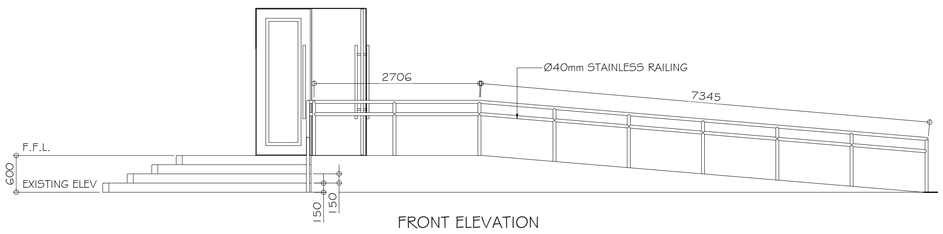
FOOTING DETAIL

SCALE 1 : 20 MTS.

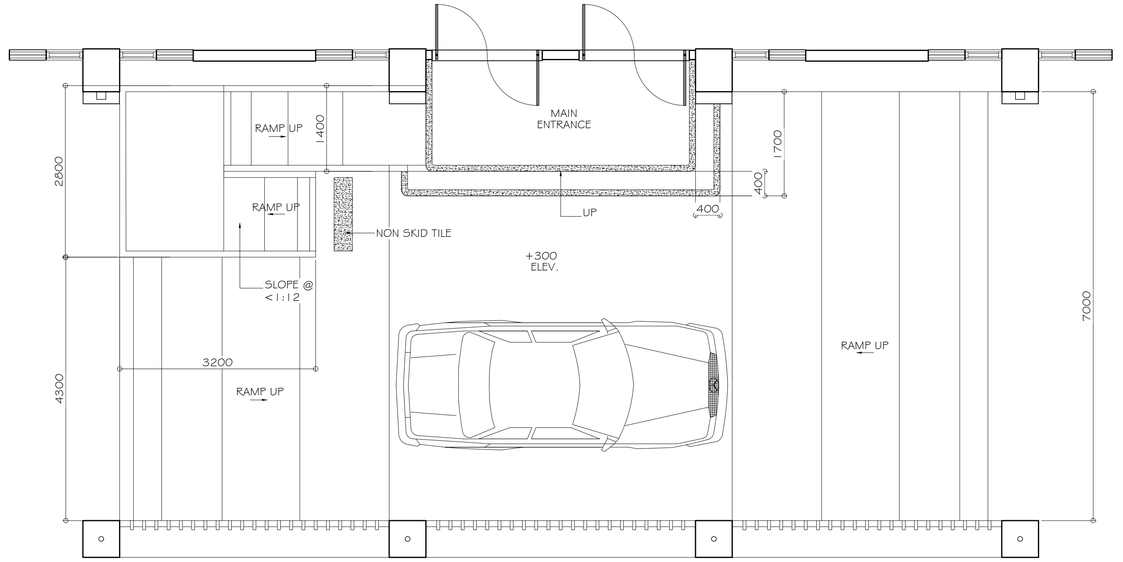
DETAIL OF STAGE



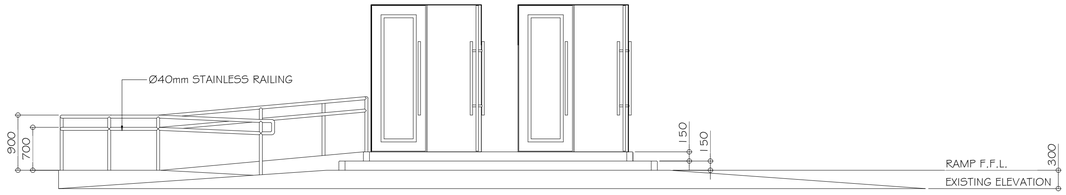
FLOOR PLAN



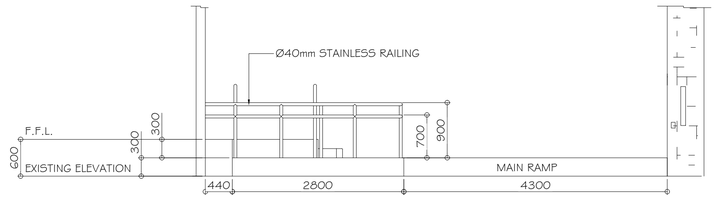
FRONT ELEVATION



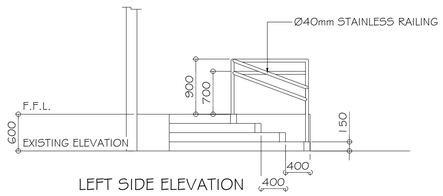
MAIN ENTRANCE FLOOR PLAN



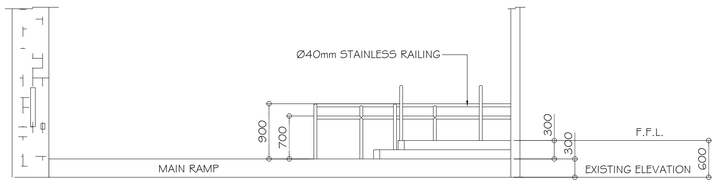
FRONT ELEVATION



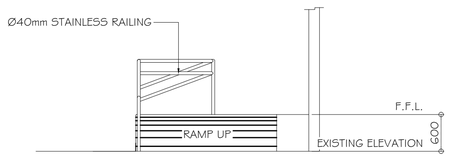
LEFT SIDE ELEVATION



LEFT SIDE ELEVATION



RIGHT SIDE ELEVATION



RIGHT SIDE ELEVATION

RAMP AND STAIR DETAILS

SCALE 1 : 50 MTS.

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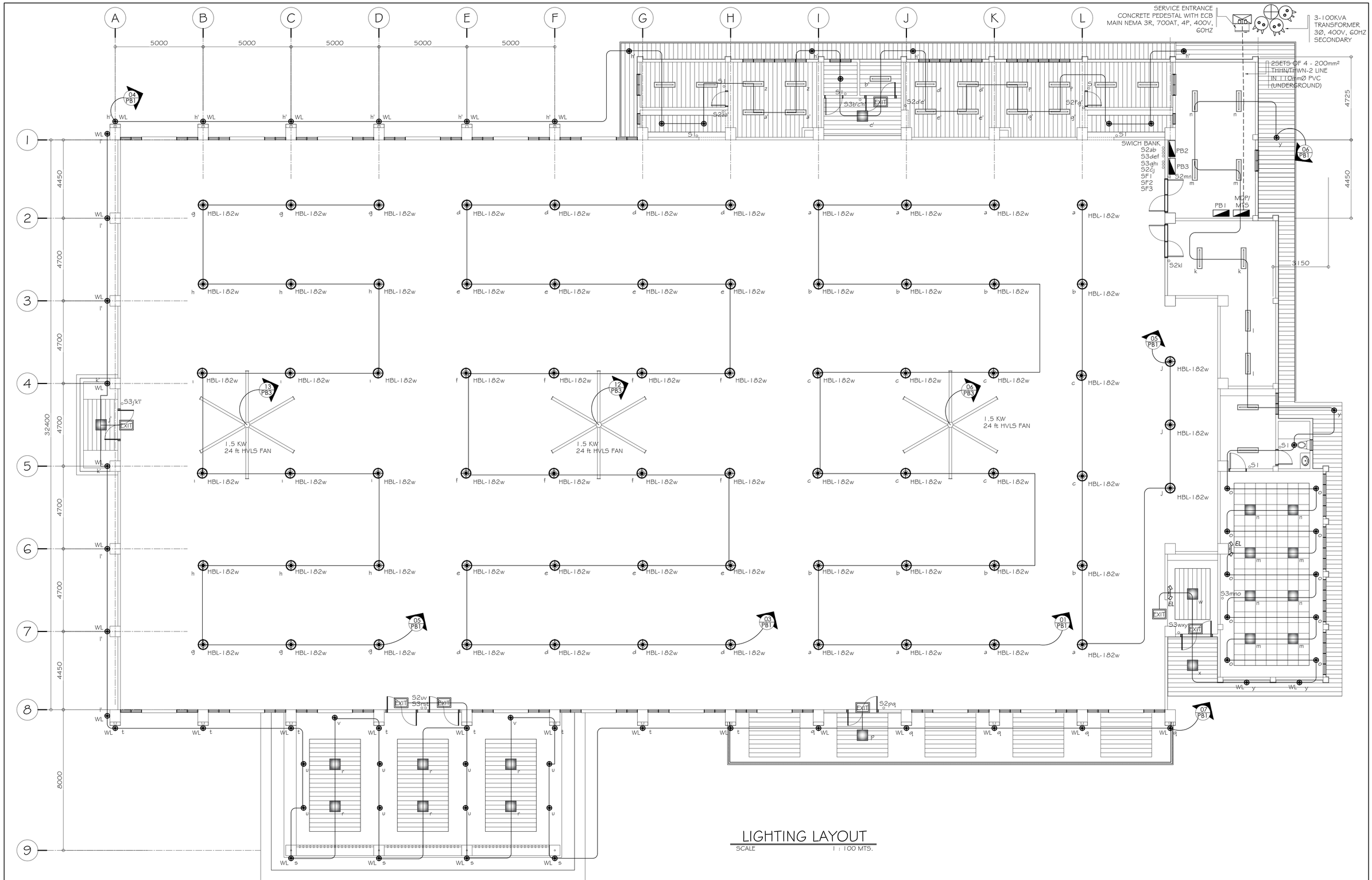

LIGHTING LAYOUT

SCALE 1 : 100 MTS.

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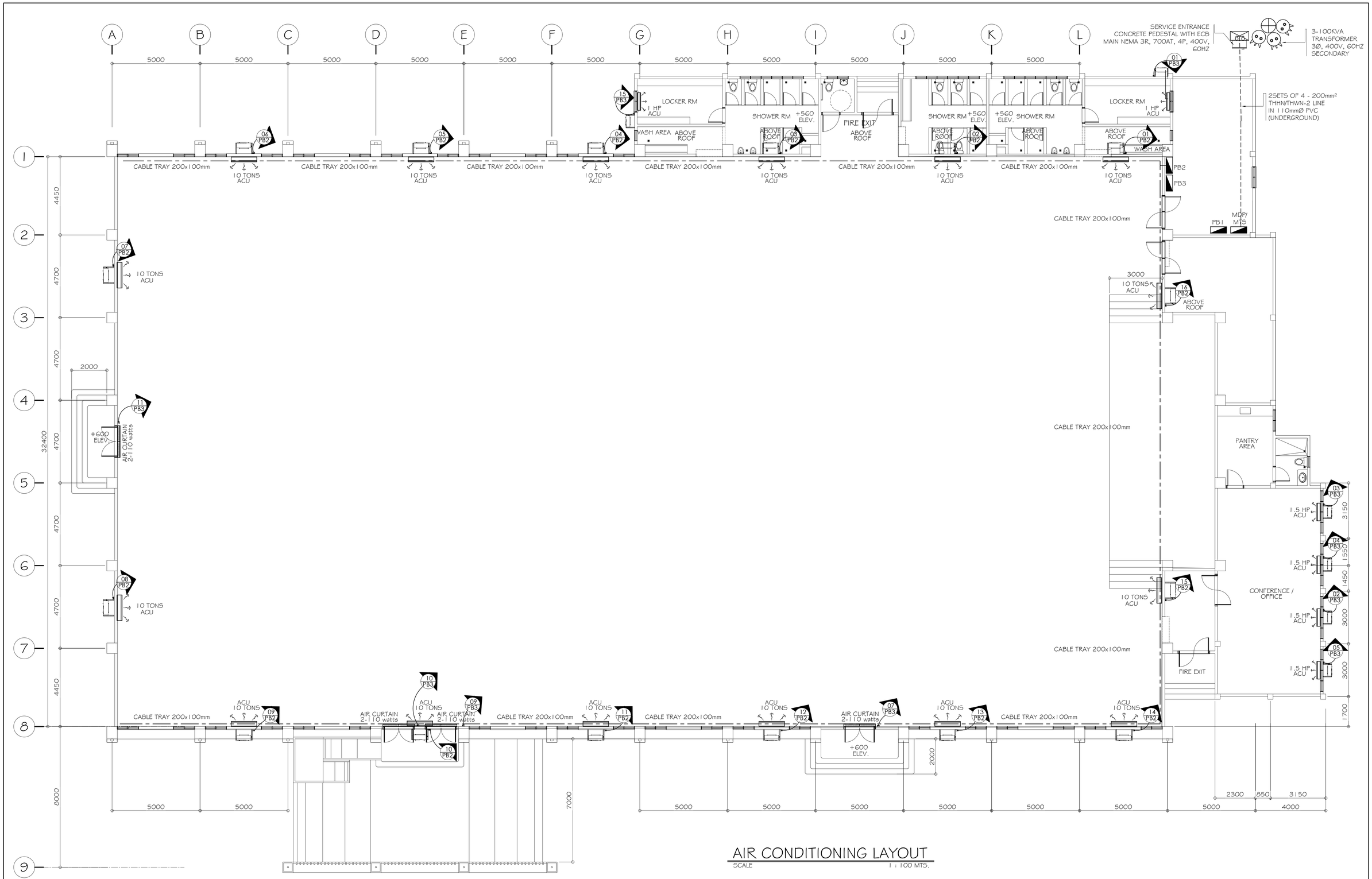

AIR CONDITIONING LAYOUT

SCALE 1 : 100 MTS.

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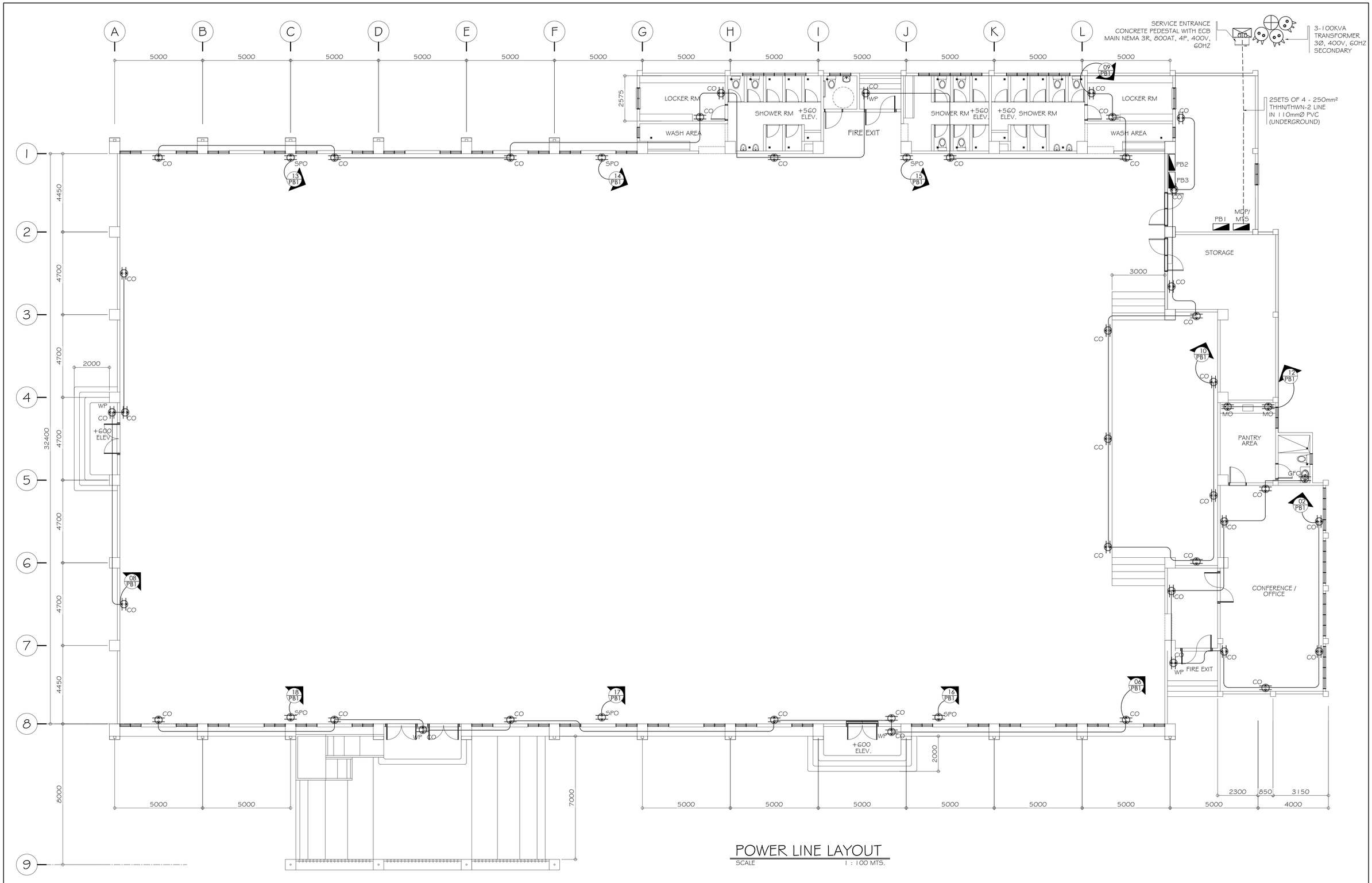

POWER LINE LAYOUT

SCALE 1 : 100 MTS.

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GENERAL ELECTRICAL NOTES:

ALL ELECTRICAL INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY, AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER.

SERVICE FROM THE ELECTRIC POWER COMPANY SHALL BE 400V, 3PHASE, 4WIRE, 60HZ

ALL INSTALLATIONS SHALL BE CONCEALED FROM VIEW BY INSTALLING CONDUCTORS IN PVC CONDUIT. POWER AND LIGHTING DISTRIBUTION EMBEDDED IN CONCRETE SHALL BE IN PVC CONDUITS. EXPOSED POWER AND LIGHTING DISTRIBUTION SHALL BE IN RSC CONDUITS, BY MEANS OF HANGERS

ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED THE MINIMUN SIZE FOR POWER AND LIGHTING SHALL BE 3.5 sqmm WIRE AS APPROVED BY THE ENGINEERS

THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER SUPPLY.

ALL RECEPTACLES SHALL BE OF THE GROUNDING TYPE.

ALL SERVICE ENTRANCE EQUIPMENT, SWITCHES, PANELBOARDS, LIGHTING FIXTURES AND ALL NON-CURRENT CARRYING METAL PARTS BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.

ALL PANELBOARDS SHALL BE PROVIDED WITH GROUNDING BUS. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND OF THE THERMAL-MAGNETIC TYPE, COMMON TRIP WITH THE RATINGS AND NUMBER OF POLES AS INDICATED IN THE DRAWINGS.

THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLLOWS:

A) LIGHT SWITCHES . . . . . 1.3M ABOVE FLOOR FINISH TO BOTTOM SWITCH.
B) CONVENIENCE OUTLETS . . . . . 0.35M ABOVE FLOOR FINISH TO BOTTOM C.O.
C) TELEPHONE OUTLETS . . . . . 0.35M ABOVE FLOOR FINISH TO BOTTOM T.O..
D) PANELBOARDS & CABINETS . . . . 1.8M ABOVE FLOOR FINISH AT TOP OF PANEL

ALL MOUNTING HEIGHTS SHALL BE SUBJECT TO ARCHITECTS APPROVAL PRIOR TO INSTALLATION.

WHENEVER NECESSARY PULL BOXES SHALL BE PROVIDED EVEN IF NOT INDICATED IN THE PLAN

ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY QUALIFIED LICENSED ELECTRICAL ENGINEER.

PROVIDE LIGHTNING ELECTRODE AND ARRESTER TO GROUND.

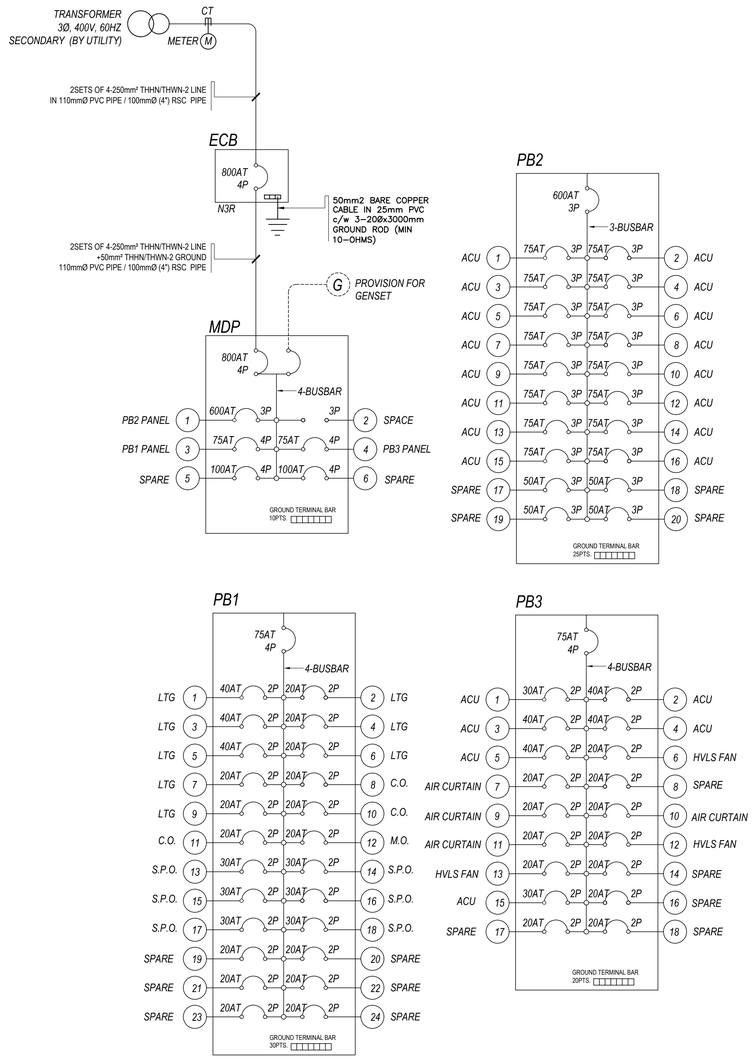
THE 3 PHASE WIRE COLOR CODING SHALL BE AS FOLLOW:

A) LINE 1 - RED
B) LINE 2 - YELLOW
C) LINE 3 - BLUE
D) NEUTRAL - WHITE
E) GROUND - GREEN

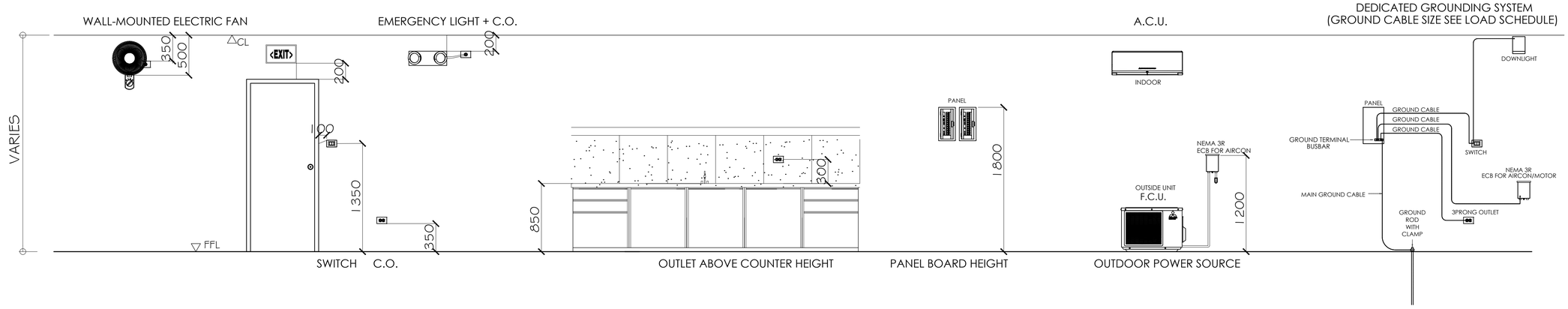
THE FOLLOWING TEST SHALL BE DONE BEFORE ENERGIZATION THE ELECTRICAL SYSTEM

A) CONTINUITY TEST
B) INSULATION RESISTANCE TEST
C) EARTH RESISTANCE TEST
D) PHASE SEQUENCE TEST
E) FUNCTIONALITY TEST

HBL-200w	200W LED HIGH BAY LIGHTS
HBL-100w	100W LED HIGH BAY LIGHTS
	12W LED DOWNLIGHT
WL	12W LED WALL LAMP
	36W LED PANEL
	18W T8 LED LINEAR LIGHTS
EXIT	EXIT LIGHT
	24 ft HVLS FAN
EL	EMERGENCY LIGHT
S1, S2, S3	1 GANG, 2 GANG, 3 GANG SWITCH
CO	CONVENIENCE OUTLET
MO	MULTI PURPOSE OUTLET
	PANELBOARD
XX / XXX	CIRCUIT HOMERUN



TYPICAL MOUNTING HEIGHTS & GROUNDING SCHEMATIC DIAGRAM



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PANEL NAME: MDP
FEED FROM : POWER SERVICE PROVIDER
SYSTEM : 380~400V, 3Ø, 4WIRE + GROUND , 60HZ
ENCLOSURE : NEMA1, SURFACE MOUNTED, BOLT-ON

MULTI-PURPOSE COVERED COURT LIGHTING & POWER LOAD CALCULATION

CKT. NO.	DESCRITION	CONNECTED LOAD						OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS
		V	VA	AN	BN	CN	ABC	AT	AF	P	KA	
1	PB2 PANEL	400	241,760.00	-	-	-	604.40	600	800	3	65	3 SETS OF 3-80mm² THHN/THWN-2 LINE + 38mm² THHN/THWN-2 GROUND IN 75 mm DIA. PVC CONDUIT or 65mm dia. EMT Conduit
2	SPACE									3		with Spare Busbar
3	PB1 PANEL	400	41,430.00	54.45	61.83	63.85	0	75	100	4	65	5-22mm² THHN/THWN-2 LINE + 8.0mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
4	PB3 PANEL	400	25,760.00	38.52	36.43	37.04	0	75	100	4	65	5-22mm² THHN/THWN-2 LINE + 8.0mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
5	SPARE	400	32000				80	100	100	4	65	40mm dia. Stub-up Pipe
6	SPARE	400	32000				80	100	100	4	65	40mm dia. Stub-up Pipe
TOTAL CONNECTED LOAD :			372950	92.97	98.26	100.90	764.40					

FEEDER LINE COMPUTATION:
I = ((100.896) + 764.4+ (34.4 x 0.25))80% DF
I = 699.12 Amps

MAIN CIRCUIT BREAKER COMPUTATION:
I = ((100.896) + 764.4 + (34.4 x 1.5))80% DF
I = 733.52 Amps

USE :

800AT/800AF, 4POLE, 85KAIC, MCCB
2SETS OF 4-250mm² THHN/THWN-2 (L) + 50mm² THHN/THWN-2 (G) IN 110 mmØ PVC CONDUIT OR IN 100mmØ RSC CONDUIT

PANEL NAME: PB1
FEED FROM : MDP
SYSTEM : 380~400V, 3Ø, 3WIRE + 2NEUTRAL WIRE + GROUND , 60HZ
ENCLOSURE : NEMA1, SURFACE MOUNTED, BOLT-ON

MULTI-PURPOSE COVERED COURT LIGHTING & POWER LOAD CALCULATION

CKT. NO.	DESCRITION	CONNECTED LOAD						OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS
		V	VA	AN	BN	CN	ABC	AT	AF	P	KA	
1	18-1 x 182W LED HIGH BAY LIGHTS	230	3276	14.24				40	50	2	10	2-5.5mm² THHN/THWN-2 LINE + 3.5mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
2	9-1 x 180W CONVENIENCE OUTLET	230	1620	7.04				20	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
3	24-1 x 182W LED HIGH BAY LIGHTS	230	4368		18.99			40	50	2	10	2-5.5mm² THHN/THWN-2 LINE + 3.5mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
4	6-1 x 12W WL, 9-1 x 12W DL, 1-1 x 36W LED PANEL LTG, 17-1 x 18W T8 FL, 1-1 x 50W EXIT LTG	230	572		2.49			20	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
5	27-1 x 182W LED HIGH BAY LIGHTS	230	4914			21.37		40	50	2	10	2-5.5mm² THHN/THWN-2 LINE + 3.5mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
6	10-1 x 18W T8 FL, 10-1 x 36W LED PANEL LTG, 13-1 x 12W DL, 2-1 x 12W WL, 2-2 x 3.5W EMERGENCY LIGHT, 2-1 x 50W EXIT LTG	230	832			3.62		20	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
7	8-1 x 36W LED PANEL LTG, 25-1 x 12W WL, 10-1 x 12W DL, 4-1 x 50W EXIT LTG	230	908	3.95				20	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
8	4-1 x 180W CONVENIENCE OUTLET	230	720	3.13				20	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
9	11-1 x 180W CONVENIENCE OUTLET	230	1980		8.61			20	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
10	10-1 x 180W CONVENIENCE OUTLET	230	1800		7.83			20	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
11	8-1 x 180W CONVENIENCE OUTLET	230	1440			6.26		20	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
12	MULTI PURPOSE OUTLET	230	1500			6.52		20	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
13	SPECIAL PURPOSE OUTLET	230	1500	6.52				30	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
14	SPECIAL PURPOSE OUTLET	230	1500	6.52				30	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
15	SPECIAL PURPOSE OUTLET	230	1500		6.52			30	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
16	SPECIAL PURPOSE OUTLET	230	1500		6.52			30	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
17	SPECIAL PURPOSE OUTLET	230	1500			6.52		30	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
18	SPECIAL PURPOSE OUTLET	230	1500			6.52		30	50	2	10	2-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
19	SPARE	230	2000	8.70				20	50	2	10	20mmØ PVC CONDUIT STUB-OUT
20	SPARE	230	1000	4.35				20	50	2	10	20mmØ PVC CONDUIT STUB-OUT
21	SPARE	230	1000		4.35			20	50	2	10	20mmØ PVC CONDUIT STUB-OUT
22	SPARE	230	1500		6.52			20	50	2	10	20mmØ PVC CONDUIT STUB-OUT
23	SPARE	230	1000			4.35		20	50	2	10	20mmØ PVC CONDUIT STUB-OUT
24	SPARE	230	2000			8.70		20	50	2	10	20mmØ PVC CONDUIT STUB-OUT
TOTAL CONNECTED LOAD :			41430	54.45	61.83	63.85	0.00					

FEEDER LINE COMPUTATION:
I = ((63.853) + 0)100% DF
I = 63.86 Amps

MAIN CIRCUIT BREAKER COMPUTATION:
I = ((63.853) + 0)100% DF
I = 63.86 Amps

USE :

75AT/100AF, 4-POLE, 65KAIC, MCCB
3-22mm² THHN/THWN-2 (L) + 8.0mm² THHN/THWN-2 (G)
+ 200% Neutral Cable IN 32 mmØ PVC CONDUIT OR IN 25mmØ RSC CONDUIT

FROM THE OFFICE OF:	PROJECT TITLE:	DESIGNED BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF MULTI-PURPOSE COVERED AREA (EVACUATION CENTER) @ PAMPANGA SPORTS COMPLEX LOCATION: LOURDES, CITY OF SAN FERNANDO, PAMPANGA	KENWAY D. TAYAG ARCHITECT II MICHAEL T. MONTEMAYOR ENGINEER III	SHEELAH MARIE M. MIRANDA ENGINEER II PATRICK LAWRENCE S. SANTOS ENGINEERING ASSISTANT	RUSSEL L. HERNANDEZ CONSTRUCTION DIVISION HEAD	WILFREDO A. MANALILI ASST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS- SHOWN	E-5 29/30

PANEL NAME: PB2
FEED FROM : MDP
SYSTEM : 380~400V, 3Ø, 3WIRE +GROUND , 60HZ
ENCLOSURE : NEMA1, SURFACE MOUNTED, BOLT-ON

MULTI-PURPOSE COVERED COURT LIGHTING & POWER LOAD CALCULATION

CKT. NO.	DESCRITION	CONNECTED LOAD						OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS
		V	VA	AN	BN	CN	ABC	AT	AF	P	KA	
1	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
2	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
3	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
4	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
5	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
6	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
7	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
8	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
9	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
10	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
11	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
12	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
13	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
14	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
15	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
16	10TR SPLIT TYPE AIRCON	400	13760				34.40	75	100	3	10	3-22mm² THHN/THWN-2 LINE + 8mm² THHN/THWN-2 GROUND IN 32 mm DIA. PVC CONDUIT or 25mm dia. EMT Conduit
17	SPARE	400	5400				13.50	50	50	3	10	25mm dia. Stub-up Pipe
18	SPARE	400	5400				13.50	50	50	3	10	25mm dia. Stub-up Pipe
19	SPARE	400	5400				13.50	50	50	3	10	25mm dia. Stub-up Pipe
20	SPARE	400	5400				13.50	50	50	3	10	25mm dia. Stub-up Pipe
TOTAL CONNECTED LOAD :			241,760.00	0.00	0.00	0.00	604.40					

FEEDER LINE COMPUTATION:
I = (0) + 604.4+ (34.4 x 0.25))80% DF
I = 490.4 Amps

MAIN CIRCUIT BREAKER COMPUTATION:
I = (0) + 604.4+ (34.4 x 1.5))80% DF
I = 524.8 Amps

USE :

600AT/800AF, 3P, 65KAIC, MCCB
3SETS OF 3-80mm² THHN/THWN-2 (L) + 38mm² THHN/THWN-2 (G) IN 75 mmØ PVC CONDUIT OR IN 65mmØ RSC CONDUIT

PANEL NAME: PB3
FEED FROM : MDP
SYSTEM : 380~400V, 3Ø, 3WIRE + 2NEUTRAL WIRE + GROUND , 60HZ
ENCLOSURE : NEMA1, SURFACE MOUNTED, BOLT-ON

MULTI-PURPOSE COVERED COURT LIGHTING & POWER LOAD CALCULATION

CKT. NO.	DESCRITION	CONNECTED LOAD						OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS
		V	VA	AN	BN	CN	ABC	AT	AF	P	KA	
1	1HP SPLIT TYPE AIRCON	230	1840	8.00				30	50	3	10	3-5.5mm² THHN/THWN-2 LINE + 3.5mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
2	1.5HP SPLIT TYPE AIRCON	230	2300	10.00				40	50	3	10	3-5.5mm² THHN/THWN-2 LINE + 3.5mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
3	1.5HP SPLIT TYPE AIRCON	230	2300		10.00			40	50	3	10	3-5.5mm² THHN/THWN-2 LINE + 3.5mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
4	1.5HP SPLIT TYPE AIRCON	230	2300		10.00			40	50	3	10	3-5.5mm² THHN/THWN-2 LINE + 3.5mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
5	1.5HP SPLIT TYPE AIRCON	230	2300			10.00		40	50	3	10	3-5.5mm² THHN/THWN-2 LINE + 3.5mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
6	HVLS FAN	230	1500			6.52		20	50	3	10	3-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
7	2 - AIR CUTAIN	230	220	0.96				20	50	3	10	3-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
8	SPARE	230	1500	6.52				20	50	3	10	25mm dia. Stub-up Pipe
9	2 - AIR CUTAIN	230	220		0.96			20	50	3	10	3-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
10	2 - AIR CUTAIN	230	220		0.96			20	50	3	10	3-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
11	2 - AIR CUTAIN	230	220			0.96		20	50	3	10	3-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
12	HVLS FAN	230	1500			6.52		20	50	3	10	3-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
13	HVLS FAN	230	1500	6.52				20	50	3	10	3-3.5mm² THHN/THWN-2 LINE + 2.0mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
14	SPARE	230	1500	6.52				20	50	3	10	25mm dia. Stub-up Pipe
15	1HP SPLIT TYPE AIRCON	230	1840		8.00			30	50	3	10	3-5.5mm² THHN/THWN-2 LINE + 3.5mm² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit
16	SPARE	230	1500		6.52			20	50	3	10	25mm dia. Stub-up Pipe
17	SPARE	230	1500			6.52		20	50	3	10	25mm dia. Stub-up Pipe
18	SPARE	230	1500			6.52		20	50	3	10	25mm dia. Stub-up Pipe
TOTAL CONNECTED LOAD :			25,760.00	38.52	36.43	37.04	0.00					

FEEDER LINE COMPUTATION:
I = (38.522) + 0+ (10 x 1.5))100% DF
I = 53.53 Amps

MAIN CIRCUIT BREAKER COMPUTATION:
I = (38.522) + 0+ (10 x 1.5))100% DF
I = 53.53 Amps

USE :

75AT/100AF, 4POLE, 65KAIC, MCCB
3-22mm² THHN/THWN-2 (L) + 8.0mm² THHN/THWN-2 (G), 200% NEUTRAL CABLE IN 32 mmØ PVC CONDUIT OR IN 25mmØ RSC CONDUIT

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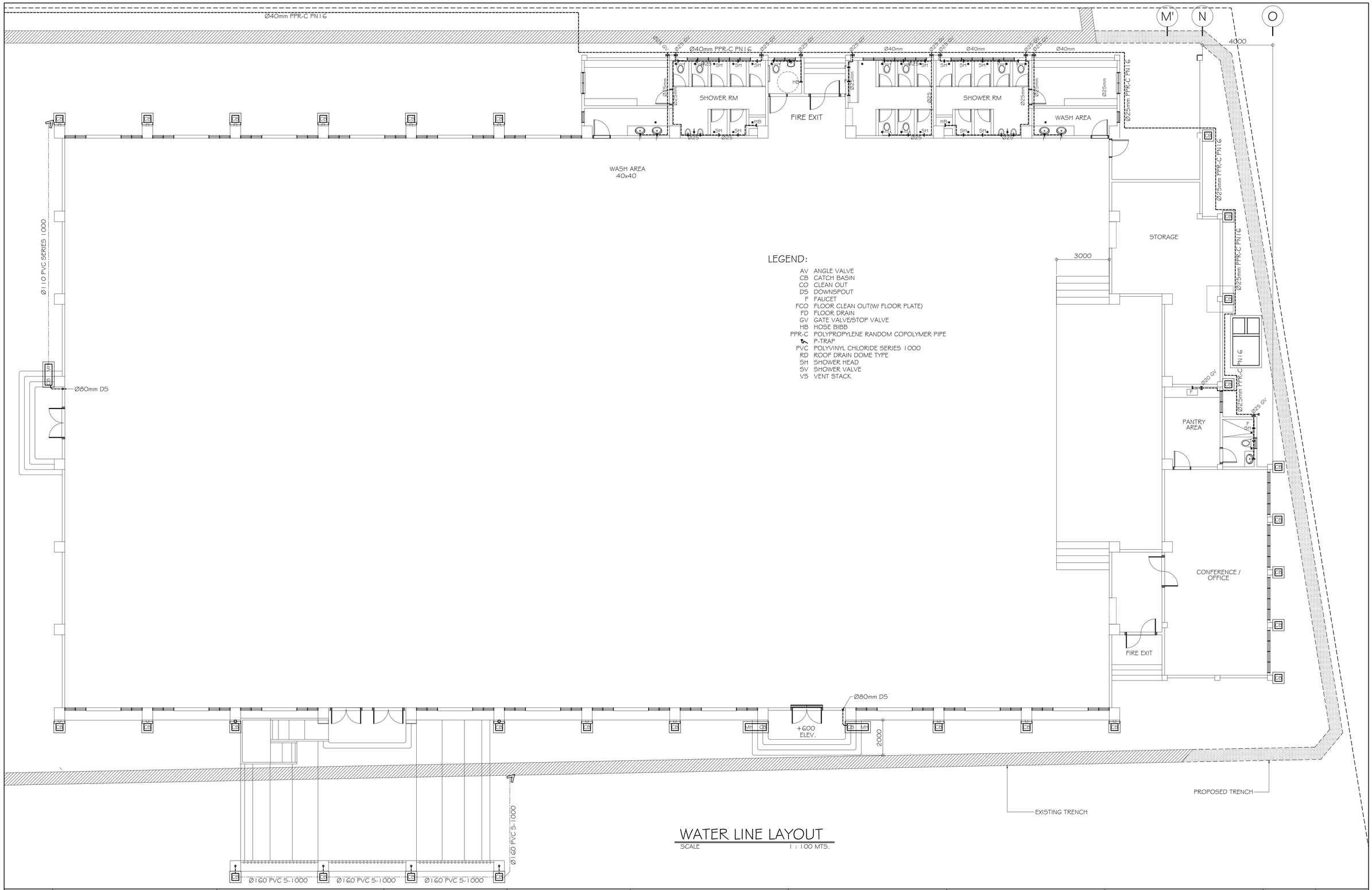
REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF MULTI-PURPOSE COVERED AREA (EVACUATION CENTER) @ PAMPANGA SPORTS COMPLEX LOCATION: LOURDES, CITY OF SAN FERNANDO, PAMPANGA	KENWAY D. TAYAG ARCHITECT II MICHAEL T. MONTEMAYOR ENGINEER III	SHEELAH MARIE M. MIRANDA ENGINEER II PATRICK LAWRENCE S. SANTOS ENGINEERING ASSISTANT	RUSSEL L. HERNANDEZ CONSTRUCTION DIVISION HEAD	WILFREDO A. MANALILI ASST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS- SHOWN	E-6 30/30



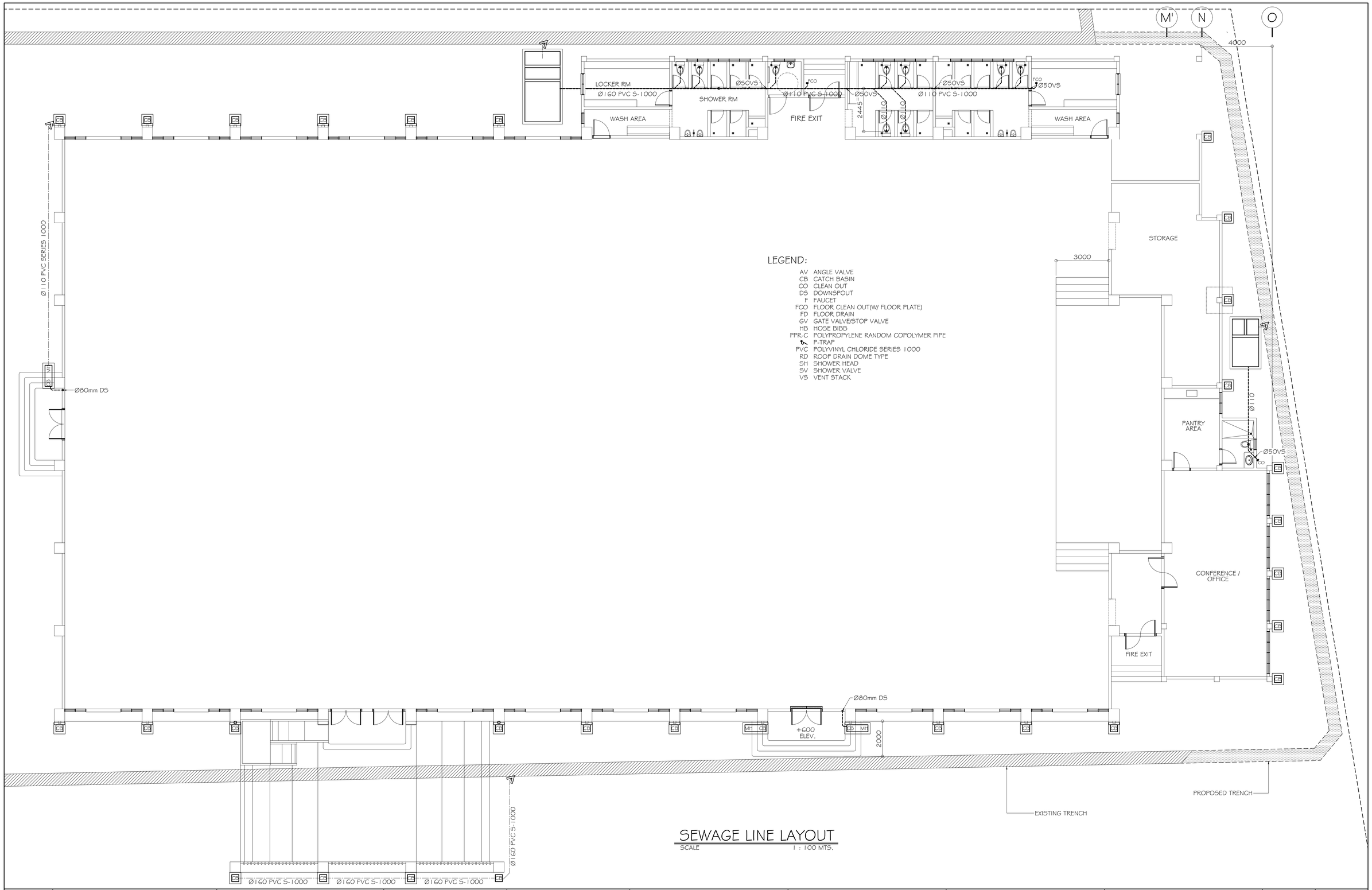
LEGEND:

AV	ANGLE VALVE
CB	CATCH BASIN
CO	CLEAN OUT
DS	DOWNSPOUT
F	FAUCET
FCO	FLOOR CLEAN OUT(W/ FLOOR PLATE)
FD	FLOOR DRAIN
GV	GATE VALVE/STOP VALVE
HB	HOSE BIBB
PPR-C	POLYPROPYLENE RANDOM COPOLYMER PIPE
	P-TRAP
PVC	POLYVINYL CHLORIDE SERIES 1000
RD	ROOF DRAIN DOME TYPE
SH	SHOWER HEAD
SV	SHOWER VALVE
VS	VENT STACK

WATER LINE LAYOUT

SCALE 1 : 100 MTS.

FROM THE OFFICE OF:	PROJECT TITLE:	DESIGNED BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE	CONSTRUCTION OF MULTI-PURPOSE COVERED AREA (EVACUATION CENTER) @ PAMPANGA SPORTS COMPLEX	KENWAY D. TAYAG	SHEELAH MARIE M. MIRANDA ENGINEER II PATRICK LAWRENCE S. SANTOS ENGINEERING ASSISTANT	RUSSEL L. HERNANDEZ	WILFREDO A. MANALILI	OLIMPIO M. PANGAN	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA	AS- SHOWN	P-1 20/30
CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	LOCATION: LOURDES, CITY OF SAN FERNANDO, PAMPANGA	ARCHITECT II		CONSTRUCTION DIVISION HEAD	ASST. PROVINCIAL ENGINEER	PROVINCIAL ENGINEER	PROVINCIAL ADMINISTRATOR		



SEWAGE LINE LAYOUT

SCALE 1 : 100 MTS.

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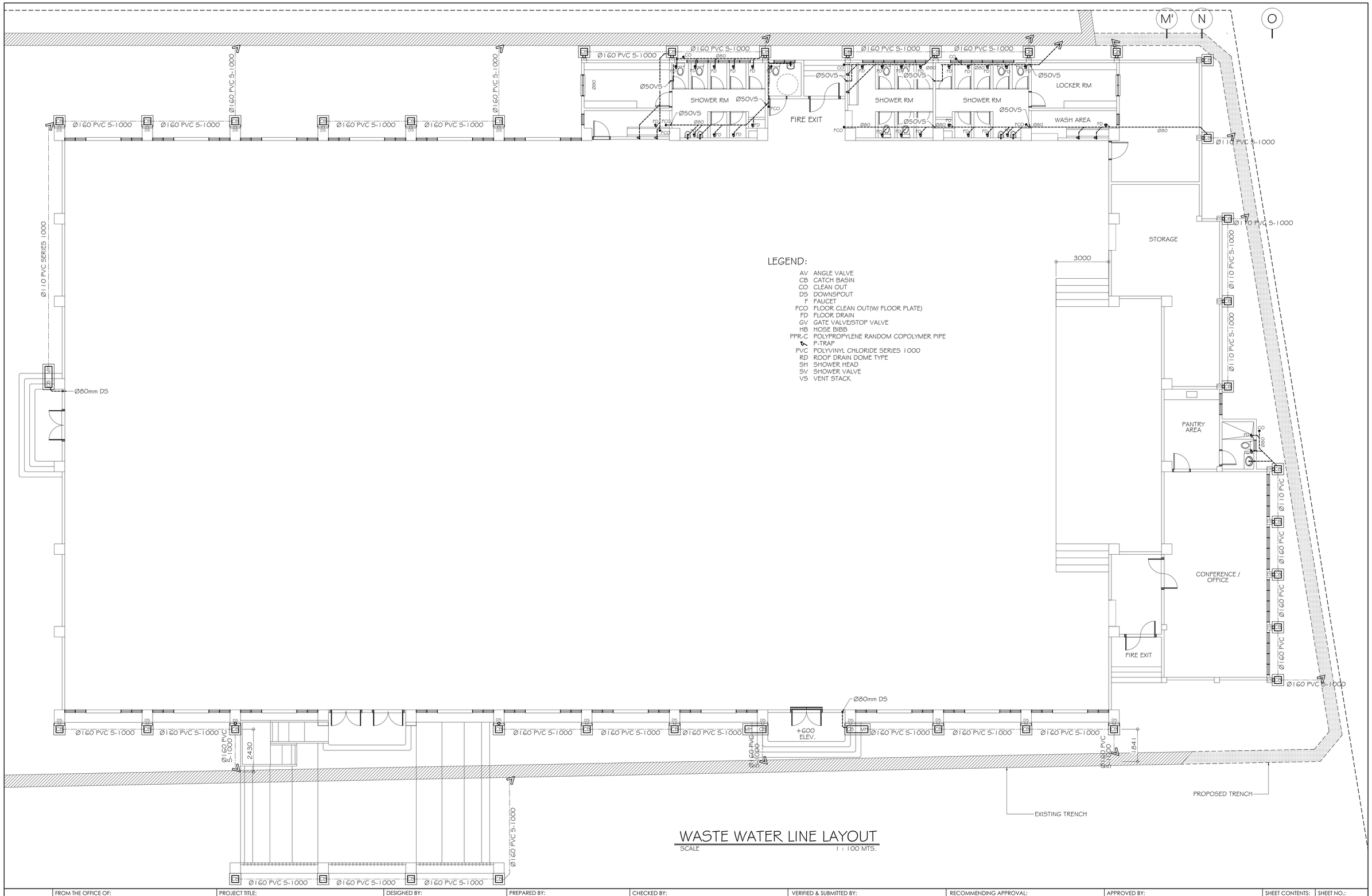

LEGEND:

AV	ANGLE VALVE
CB	CATCH BASIN
CO	CLEAN OUT
DS	DOWNSPOUT
F	FAUCET
FCO	FLOOR CLEAN OUT(W/ FLOOR PLATE)
FD	FLOOR DRAIN
GV	GATE VALVE/STOP VALVE
HB	HOSE BIBB
PPR-C	POLYPROPYLENE RANDOM COPOLYMER PIPE
	P-TRAP
PVC	POLYVINYL CHLORIDE SERIES 1000
RD	ROOF DRAIN DOME TYPE
SH	SHOWER HEAD
SV	SHOWER VALVE
VS	VENT STACK

WASTE WATER LINE LAYOUT

SCALE 1 : 100 MTS.

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REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF MULTI-PURPOSE COVERED AREA (EVACUATION CENTER) @ PAMPANGA SPORTS COMPLEX LOCATION: LOURDES, CITY OF SAN FERNANDO, PAMPANGA	KENWAY D. TAYAG ARCHITECT II	SHEELAH MARIE M. MIRANDA ENGINEER II PATRICK LAWRENCE S. SANTOS ENGINEERING ASSISTANT	RUSSEL L. HERNANDEZ CONSTRUCTION DIVISION HEAD	WILFREDO A. MANALILI ASST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS- SHOWN	P-3 22/30

GENERAL PLUMBING NOTES:

1. ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED IN ACCORDANCE TO THE PROVISIONS OF THE PHILIPPINE PLUMBING CODE, NATIONAL BUILDING CODE & ALL APPLICABLE RULES AND REGULATIONS

2. COORDINATE THE DRAWING PLANS, SPECIFICATIONS & OTHER RELATED MATERIALS TO THE SUPERVISING ENGINEER/ARCHITECT FOR ANY DISCREPANCIES FOUND PRIOR TO THE EXECUTION OF WORK.

3. ALL PIPES, FIXTURES AND OTHER UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH, INVERT ELEVATIONS. ANY CHANGES TO BE MADE SHALL BE COORDINATED WITH THE SUPERVISING ENGINEER/ARCHITECT FOR THE NECESSARY ADJUSTMENT TO ENSURE PROPER EXECUTION OF WORK

4. SEWER/DRAIN/WASTE PIPING REQUIREMENT :

MAIN DRAINAGE	-	160 mm Ø PVC PIPE
DOWNSPOUTS	-	2" x 4" UPVC RECTANGULAR TUBE
MAIN SOIL STACK	-	110 mm Ø PVC PIPE
SOIL BRANCH	-	110 mm Ø PVC PIPE
BRANCH VENT	-	50 mm Ø PVC PIPE
P-TRAP, FD & UR	-	50 mm Ø P-TRAP
WASTE PIPE, WC	-	110 mm Ø PVC PIPE
WASTE PIPE, LAV., FD & KS	-	50 mm Ø PVC PIPE

5. WATER LINE PIPING REQUIREMENT:

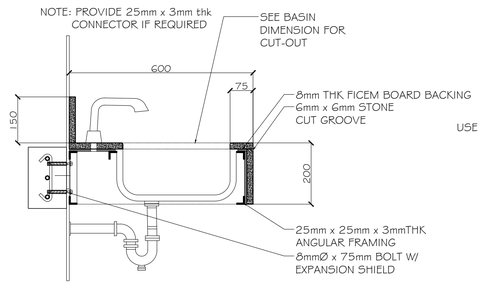
MAIN DISTRIBUTION LINE	-	40 mm Ø PPR-C PIPE
BRANCH WATER LINE	-	25 mm Ø PPR-C PIPE
BRANCH WATER LINE	-	20 mm Ø PPR-C PIPE

6. GRADES OF HORIZONTAL PIPINGS :
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT & AT A FORM GRADE NOT LESS THAN TWO PERCENT (2%)

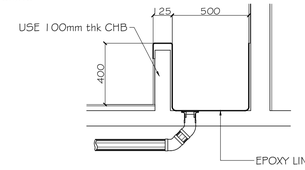
7. CHANGE DIRECTION :
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY FIVE DEGREES (45°) WYES, LONG SWEEP QUARTER BEND, SIXTH-EIGHT OR SIXTEENTH BEND. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL A SINGLE & BEND COMBINATION MAY BE USED ON VERTICAL STACKS AND SHORT QUARTER BENDS MAYBE USED ON WASTE LINE, TEE AND CROSSES MAYBE USED IN BENT PIPES

8. PIPE CLEAN-OUTS :
CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS :
a) EVERY CHANGE OF HORIZONTAL DIRECTION EXCEEDING 22-1/2°
b) 1.50 m INSIDE THE PROPERTY LINE BEFORE THE BUILDING DRAINAGE CONNECTION.
c) EVERY 15.0 m IN HORIZONTAL RUN OF PIPES
d) AT THE END OF HORIZONTAL PIPES

9. PROVIDE GREASE TRAP ON ALL KITCHEN SINKS.
10. THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
11. NOT LESS THAN 0.30 m OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF THE VAULT ROOF SLAB.
12. ALL PLUMBING WORKS SHALL BE UNDER THE DIRECT SUPERVISION OF A LICENSED MASTER PLUMBER AND LICENSE PLUMBING CONTRACTOR.



UNDER MOUNTED BASIN DETAIL
SCALE 1 : 10 MTS.



SLOP SINK SECTION
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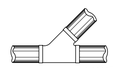
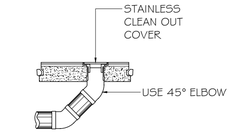
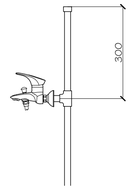
USE SANITARY TEE FOR HORIZONTAL TO STACK CONNECTION



USE SANITARY WYE FOR HORIZONTAL CONNECTION



FOR FLOOR CLEANOUT CONNECTION



AIR CHAMBER DETAIL
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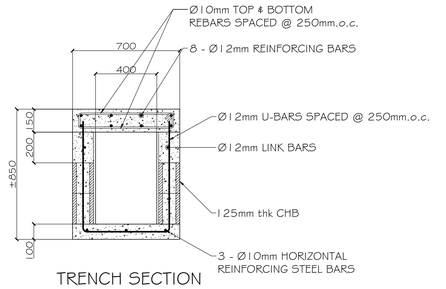
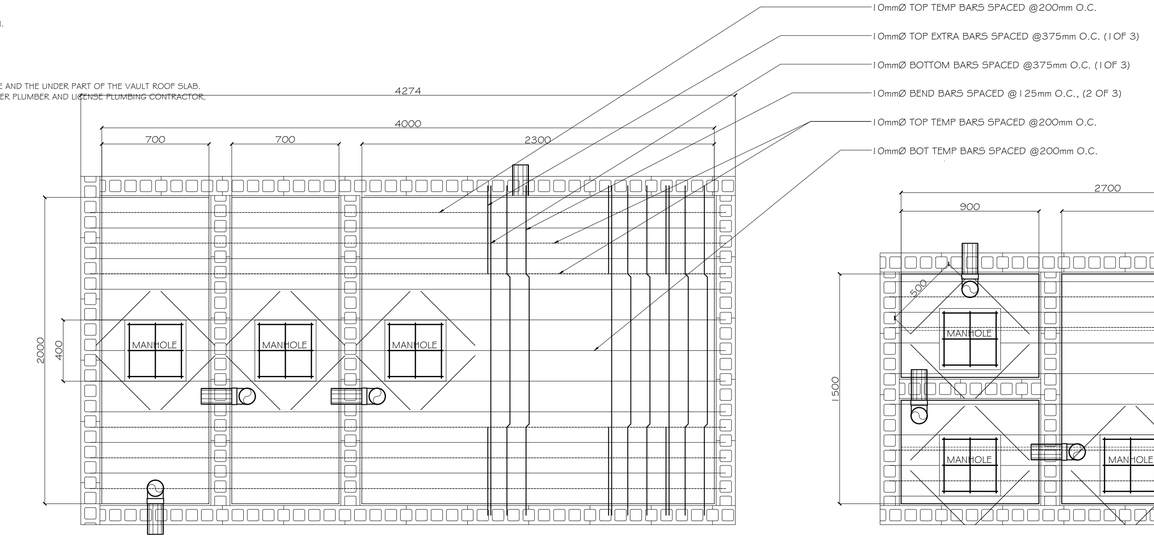
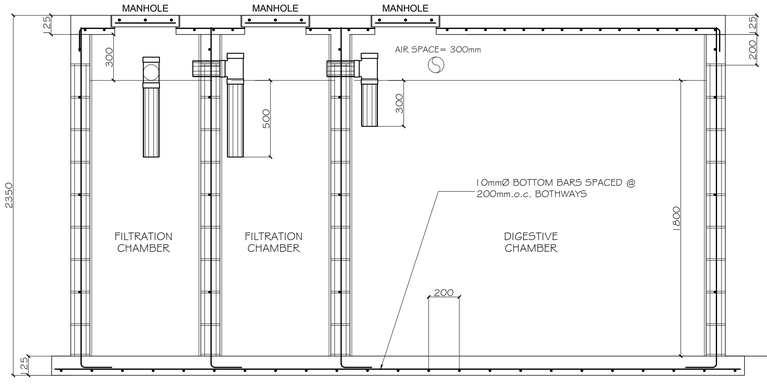


TRENCH SECTION



SEPTIC VAULT - 1 PLAN
SCALE 1 : 20 MTS.

SEPTIC VAULT - 2 PLAN
SCALE 1 : 20 MTS.



SEPTIC VAULT - 1 SECTION
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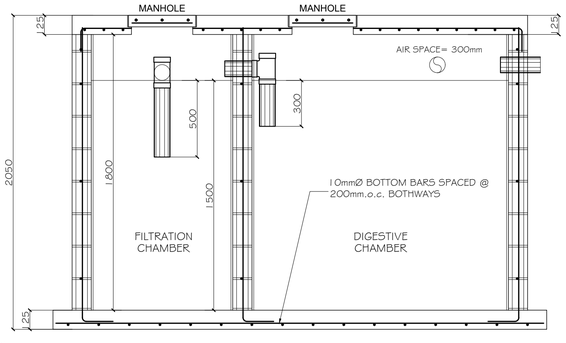

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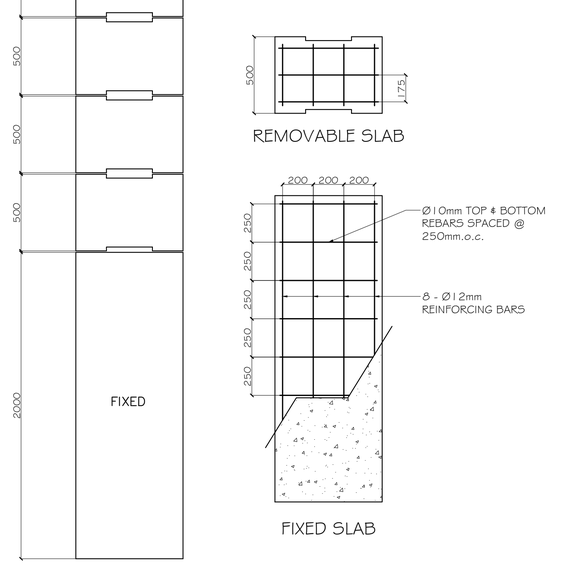
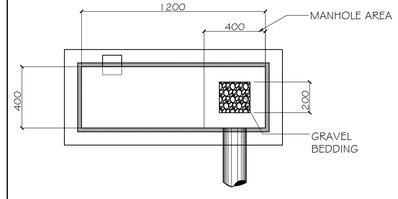
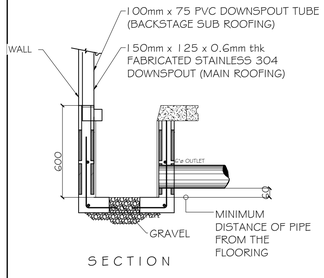


DETAIL OF TRENCH
SCALE 1 : 100 MTS.



PLAN

PLAN (ON STAIRS)



SECTION

FROM THE OFFICE OF:	PROJECT TITLE:	DESIGNED BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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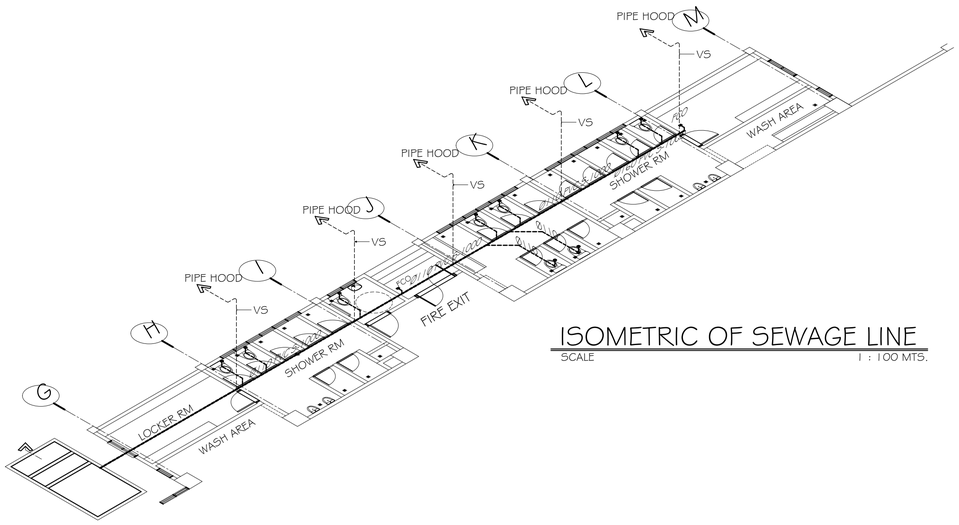
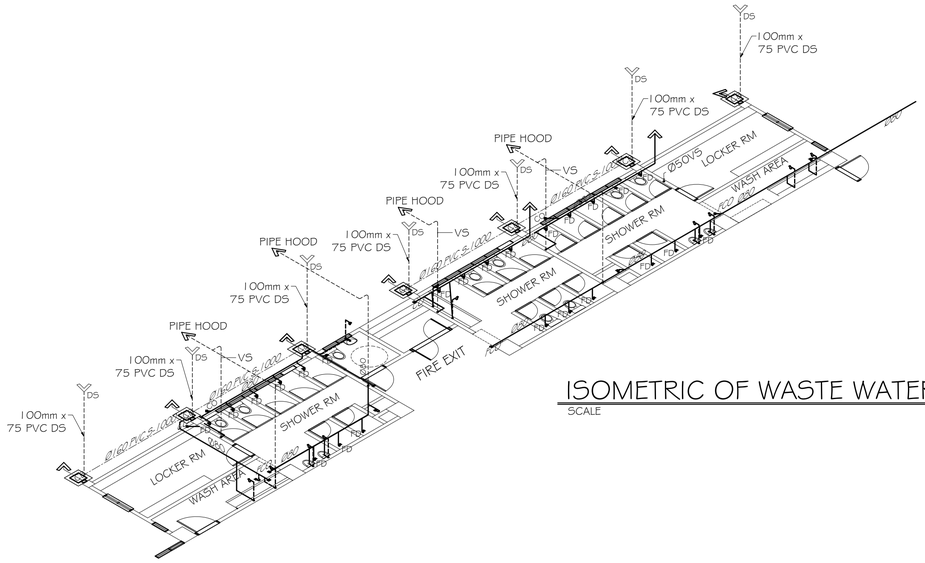


ISOMETRIC OF SEWAGE LINE

SCALE 1 : 100 MTS.



ISOMETRIC OF WASTE WATER LINE

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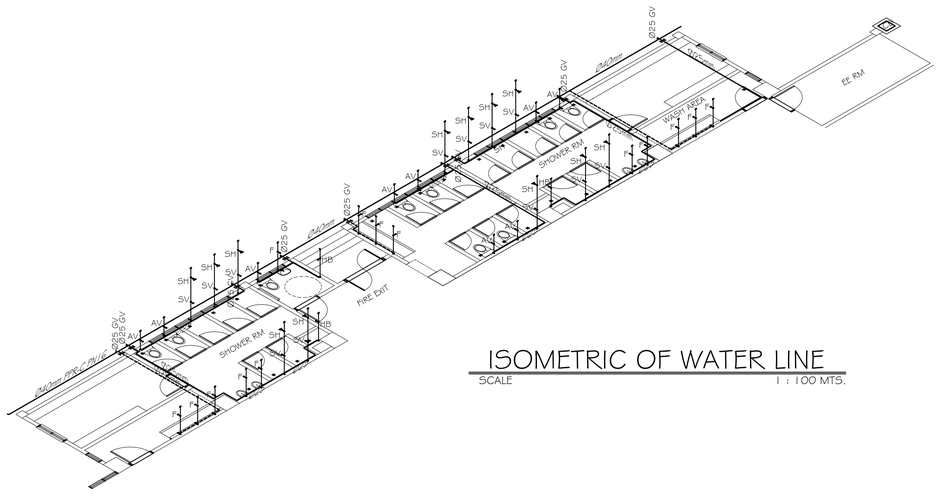

ISOMETRIC OF WATER LINE

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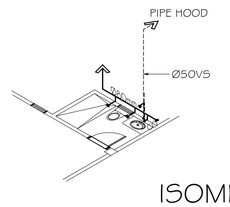
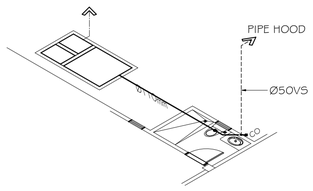
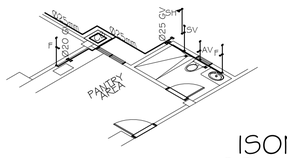




ISOMETRIC OF WASTE WATER LINE

ISOMETRIC OF SEWAGE LINE



ISOMETRIC OF COLD WATER LINE

LEGEND:

AV	ANGLE VALVE
CB	CATCH BASIN
CO	CLEAN OUT
DS	DOWNSPOUT
F	FAUCET
FCO	FLOOR CLEAN OUT(W/ FLOOR PLATE)
FD	FLOOR DRAIN
GV	GATE VALVE/STOP VALVE
HB	HOSE BIBB
PPR-C	POLYPROPYLENE RANDOM COPOLYMER PIPE
	P-TRAP
PVC	POLYVINYL CHLORIDE SERIES 1000
RD	ROOF DRAIN DOME TYPE
SH	SHOWER HEAD
SV	SHOWER VALVE
VS	VENT STACK

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GENERAL CONSTRUCTION NOTES

- ALL STRUCTURAL MILL SECTIONS, BUILT UP PLATE SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC15 LATEST "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- DESIGN LOADS FOR BUILDINGS SHALL MEET THE REQUIRED STRUCTURAL DESIGN CRITERIA.
- STEEL PLATES, SHAPES, BARS, AND METAL FABRICATIONS: ASTM A-36.
- STRUCTURAL BOLTS AND NUTS:
  - ASTM A-325, GALVANIZED. 7/8 Ø AND BELOW.
  - A-490 1" Ø AND ABOVE.
- ELECTRODES FOR WELDING: ASTM A233 E_70XX SERIES; COMPLY WITH AWS D1.1 CODE REQUIREMENTS.
- FLAME CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST "STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
- ALL BUTT WELDS SHALL BE FULL PENETRATION WELDS AND SHALL BE PROPERLY BACK-CHIPPPED OR GOUGED. BACK-UP PLATES SHALL BE PROVIDED AS REQUIRED.
- APPLY TT-P-645 SHOP PAINT FOR ALL FABRICATIONS.
- SHOP PAINTING FOR STRUCTURAL STEEL SHALL BE RUST INHIBITIVE PRIMER WITH MINIMUM D.F.T. OF 2.0 MILS.
- TOUCH-UP PAINTING: APPLY PAINT EXPOSED AREAS IN MANNER SATISFACTORY TO THE ENGINEER W/ SAME MATERIAL AS SHOP PAINT.
- COMPLY WITH AISC CODE AND SPECIFICATIONS FOR BEARING, ADEQUACY OF TEMPORARY CONNECTIONS AND ALIGNMENT.
- CONTRACTOR SHALL FURNISH COMPLETE ERECTION DRAWINGS FOR THE PROPER IDENTIFICATION AND ASSEMBLY OF ALL BUILDING COMPONENTS. THESE DRAWINGS WILL SHOW ANCHOR BOLT SETTING, PRIMARY, SECONDARY, AND ROOF FRAMING, AND NECESSARY INSTALLATION DETAILS. SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION.
- APPLICATION OF FIRE PROOFING SYSTEM IS REQUIRED FOR ALL STRUCTRAL STEEL MEMBERS. PROVIDE 2 HOUR MINIMUM FIRE RATING. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR ADDITIONAL FIRE PROOFING.

1 STRUCTURAL STEEL

SCHEDULE OF REINFORCING BARS

DIAMETER OF BARS	GRADE (fy)	ASTM
Ø16 & SMALLER	40 ksi	AG15/AG15M (DEFORMED)
Ø20 ~ Ø36mm	60 ksi	

- BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL MADE COLD.
- ALL GRADE 60 REINFORCING STEEL SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM GRADE 40 REINFORCING STEEL IF CON-CURRENTLY ON SITE.
- BARS NOTED AS "CONTINUOUS" SHALL HAVE A MINIMUM SPLICE LENGTH OF 42 BAR DIA. BUT BAR DIAMETERS BUT NOT LESS THAN 600mm, UNLESS OTHERWISE NOTED.
- REINFORCING SHALL BE SPLICED ONLY AS INDICATED ON THE DRAWINGS.
- MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE:

ITEM	COVER
CONCRETE CAST AGAINST EARTH	75 mm
EXPOSED TO EXTERIOR WEATHER	38 mm
FORMED SURFACE BELOW GRADE	50 mm
SLAB ON GRADE	50 mm
COLUMN & BEAM	38 mm
STRUCTURAL SLABS TOP & BOTTOM (INTERIOR)	25 mm

- ANY WELDING TO BE PERFORMED MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEERS
- WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-79 "AWS STRUCTURAL WELDING CODE-REINFORCING STEEL" OF THE AMERICAN WELDING SOCIETY REINFORCING STEEL WHICH IS WELDED SHALL CONFORM TO ASTM A-706. REINFORCING STEEL NOT CONFORMING TO ASTM A-706 MAY BE USED IF MATERIAL PROPERTIES OF THE REINFORCING STEEL CONFORM TO AWS D1.4-79.
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185. WELDED WIRE FABRICATION SUSPENDED SLABS SHALL HAVE Fy=60KSI. LAP 152MM, MINIMUM OR ONE FULL MESS, WHICHEVER IS GREATER FOR SLABS ON GRADE.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL PREPARED IN ACCORDANCE WITH ACI 315. INDICATE BENDING DIAGRAM, ASSEMBLY DIAGRAM, SPLICING AND LAPS OF RODS AND SHAPES, DIMENSIONS, AND DETAILS FOR REINFORCING BARS.
- ANCHOR BOLTS, DOWELS, AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.

2 REINFORCING STEEL

- FORMS SHALL BE PROVIDED FOR ALL CONCRETE INDICATED UNLESS SPECIFIED OTHERWISE. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND MAINTAINED SO AS TO INSURE COMPLETED WORK WITHIN THE ALLOWABLE TOLERANCES SPECIFIED AND SHALL BE MORTAR TIGHT.
- FORMS AND THEIR SUPPORTS SHALL BE DESIGNED SO AS NOT TO DAMAGE PREVIOUSLY PLACED STRUCTURE.
- NO CONSTRUCTION LOAD SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM ANY PART OF STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH THE REMAINING FORMING AND SHORING SYSTEM HAS STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND THE ADDITIONAL IMPOSED LOADS.
- FORMS SHALL BE REMOVED IN SUCH MANNER AS NOT TO IMPAIR SAFETY AND SERVICE ABILITY OF THE STRUCTURE.

SCHEDULE OF STRIPPING OF FORMS & SHORES

ITEM	REMOVAL TIME
SIDES OF WALLS,COLUMNS, VERTICAL FACES OF BEAM	24 - 48 hrs
SLABS (PROPS LEFT UNDER)	3 DAYS
BEAMS SOFFITS (PROPS LEFT UNDER)	7 DAYS
REMOVAL OF PROPS OF SLABS	14 DAYS
REMOVAL OF PROPS FOR BEAMS & ARCHES UP TO 6m	14 DAYS
REMOVAL OF PROPS FOR BEAMS & ARCHES MORE THAN 6m	21 DAYS

3 FORMWORKS

SCHEDULE OF STRUCTURAL CONCRETE 28-DAY COMPRESSIVE STRENGTH AND TYPES

LOCATION	STRUCTURAL ELEMENTS	28-DAY COMPRESSIVE STRENGTH	DENSITY kg/m^3	MAX SLUMP
FOUNDATION	FOOTING	3500 psi	2400	4"(100mm)
OTHERS	COLUMNS	3500 psi	2400	4"(100mm)
	SLABS, BEAMS, PT BEAMS, RAMPS	3500 psi	2400	4"(100mm)

- INFORM ARCHITECT/ENGINEERS OF OTHER MISCELLANEOUS CONCRETE STRUCTURAL ELEMENTS NOT SHOWN ABOVE TO DETERMINE THEIR RESPECTIVE COMPRESSIVE STRENGTHS.

SCHEDULE OF CONCRETE AGGREGATES

ITEMS	AGGREGATE SIZE
SLABS, BEAMS, COLUMNS	3/4" (19mm)
CURBS & MASS CONCRETE	1" (25mm)

- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION CODE OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-91).
- LOCATION OF ALL CONSTRUCTION OR COLD JOINTS MUST BE APPROVED BY THE ENGINEER/ARCHITECT.
- PIPE OR DUCTS EXCEEDING ONE THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES BUT SHALL NOT BE EMBEDDED THEREIN.
- REINFORCING BARS, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACED BEFORE POURING CONCRETE. BAR PLACEMENT AND SUPPORTS SHALL BE IN ACCORDANCE WITH THE RECOMMENDED ACI PRACTICE.
- ALL INSERTS, ANCHOR BOLTS, PLATES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.
- IN GENERAL, THE LATEST EDITION OF (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES) ACI-315, SHALL BE ADHERED TO , UNLESS SHOWN OTHERWISE.
- USE OF ADMIXTURES IS PERMITTED TO PRODUCE PROPER SLUMP AND WORKABILITY BUT SUBJECT TO THE ENGINEER'S APPROVAL ADDITION OF WATER TO CONCRETE AT JOBSITE IS NOT ALLOWED.
- GENERAL NOTES AND TYPICAL STRUCTURAL DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED.
- FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT FOR SIMILAR CONDITIONS. MODIFY TYPICAL DETAILS AS REQUIRED TO MEET SPECIAL CONDITIONS.
- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK OR DURING CONSTRUCTION.

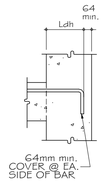
4 REINFORCED CONCRETE

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE STRUCTURE FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTIONS.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST APPLICABLE STANDARDS OF SPECIFICATIONS, ALL WORKS SHALL CONFORM WITH THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES.
- INSPECTION-ALL CONSTRUCTION AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION, EXAMINATION AND TESTING BY THE ENGINEER/ARCHITECT. THE ENHINEER/ARCHITECT SHALL HAVE THE RIGHT TO REJECT DEFECTIVE MATERIALS AND WORKMANSHIP OR REQUIRE ITS CORRECTION.
- UNLESS SPECIFICALLY DETAILED ELSEWHERE CONTRACTOR SHALL FOLLOW TYPICAL DETAILS AS SHOWN IN THESE DRAWINGS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.
- DO NOT SCALE DRAWINGS, CALLED-OUT DIMENSIONS AND STANDARD CODE REQUIREMENTS SHALL GOVERN UNSCALED DRAWINGS.
- SPECIAL NOTE: DIMENSIONS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. ARCHITECTURAL DRAWINGS SHALL BE USED TO DEFINE DETAIL CONFIGURATIONS, ELEVATIONS, OPENINGS, JOINTS, SLOPES, ETC.
- THE CONTRACTOR IS GIVEN THE OPTION TO UTILIZE ALTERNATIVE METHODS OF DESIGN AND CONSTRUCTION AS DEEMED SUITABLE PROVIDE THAT SUCH OPTION IS IN CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND IS COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS.

5 GENERAL NOTES

HOOK BAR DEVELOPMENT LENGTH (Ldh) SCHEDULE (INCHES)

BAR SIZE	ALL MEMBERS U.N.O.			CONCRETE WALLS & DIAPHRAGMS		
	Fc' = 3000psi	Fc' = 4000psi	Fc' = 5000psi	Fc' = 3000psi	Fc' = 4000psi	Fc' = 5000psi
10	6	6	6	7	6	6
12	8	7	6	9	8	7
16	10	9	8	11	10	9
20	12	10	9	13	11	10
22	14	12	11	15	13	12
25	16	14	12	17	15	14
28	18	15	14	20	17	15
32	20	17	16	22	19	17
36	22	19	17	24	21	19



- THESE DEVELOPMENT LENGTHS APPLY TO REGULAR WEIGHT CONCRETE MULTIPLY THE SPECIFIED DEVELOPMENT LENGTH BY 1.3 FOR LIGHTWEIGHT CONCRETE.
- THE DEVELOPMENT LENGTHS SPECIFIED FOR "CONCRETE WALLS & DIAPHRAGMS" ARE APPLICABLE IF THE HOOKED BAR IS WITHIN THE CONFINED CONCRETE CORE OF A BOUNDARY MEMBER.
- REFER TO SECTION FOR ADD'L REQUIREMENTS FOR "ALL OTHER MEMBERS".

6 HOOKED BAR DEVELOPMENT (Ld) SCHEDULE

- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 300mm CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- THESE BAR DEVELOPMENT LENGTHS APPLY TO REGULAR WEIGHT CONCRETE, MULTIPLY THE SPECIFIED DEVT. LENGTH BY 1.3 FOR LIGHTWEIGHT CONCRETE.
- ALL DETAILING OF REINFORCEMENT SHALL COMPLY WITH THIS SCHED. UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
- db INDICATES DIAMETER OF THE BAR.
- LENGTHS SHOWN UNDER CONDITION 1 SHALL BE USED WHERE ANY ONE OF THE FOLLOWING IS SATISFIED:
  - A. BEAM AND COLUMN BARS WHERE "BAR SPACING ≥ db".
  - B. INNER LAYER OF SLAB OR WALL REINFORCEMENT WHERE "BAR SPACING ≥ 4db".
  - C. ANY REINFORCEMENT WHERE "BAR COVER ≥ 2db" AND "BAR SPACING ≥ 4db".
- LENGTHS SHOWN UNDER CONDITION 2 SHALL BE USED WHERE "BAR COVER ≤ db" OR "BAR SPACING ≤ 3db".
- LENGTHS SHOWN UNDER CONDITION 3 SHALL BE USED WHERE CONDITION 1 OR 2 ARE NOT SATISFIED.
- IF "BAR SPACING ≥ 6db" AND "BAR SPACING ≥ 2.5db" USE 80% OF LENGTH SPECIFIED IN SCHEDULE ABOVE.
- A STANDARD HOOK SHALL BE PROVIDED WHERE Ld IS UNATTAINABLE DUE TO SPACE RESTRICTIONS (REFER TO SCHEDULE FOR Ldh).

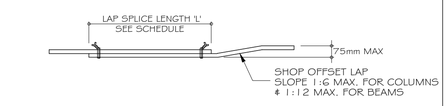
CLASS "A" LAP SPLICE SCHEDULE (L) (INCHES)

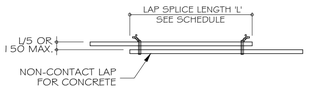
		Fc' = 3000 psi						Fc' = 4000 psi						Fc' = 5000 psi					
		CONDITION 1		CONDITION 2		CONDITION 3		CONDITION 1		CONDITION 2		CONDITION 3		CONDITION 1		CONDITION 2		CONDITION 3	
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
ALL MEMBERS BAR SIZES	10	17	13	17	13	17	13	14	12	14	12	14	12	13	12	13	12	13	12
	12	22	17	23	18	22	17	19	15	20	15	19	15	17	13	18	14	17	13
	16	27	21	35	27	27	21	24	18	31	24	24	18	21	16	28	21	21	16
	20	33	25	51	39	36	28	28	22	44	34	31	24	25	20	39	30	28	21
	22	36	29	61	53	46	37	33	25	60	46	42	32	29	23	54	41	38	29
	25	45	35	90	69	63	49	39	30	78	60	55	42	35	27	70	54	49	38
	28	57	44	114	88	80	62	50	38	99	76	69	54	45	34	89	68	62	48
	32	73	56	145	111	101	78	63	49	125	97	88	68	56	43	112	86	79	61
	36	89	69	176	137	125	96	77	60	154	119	108	83	69	53	138	106	97	75
ALL MEMBERS U.N.O.	10	23	16	23	16	23	16	21	15	21	15	21	15	21	15	21	15	21	15
	12	30	22	30	22	30	22	26	19	26	19	26	19	23	17	23	17	23	17
	16	37	27	37	27	37	27	32	23	32	23	32	23	29	21	29	21	29	21
	20	45	32	45	32	45	32	39	28	39	28	39	28	35	25	35	25	35	25
	22	52	37	52	37	52	37	45	32	45	32	45	32	40	29	40	29	40	29
	25	59	43	59	43	59	43	52	37	52	37	52	37	46	33	46	33	46	33
	28	67	48	67	48	67	48	58	42	58	42	58	42	52	37	52	37	52	37
	32	75	54	75	54	75	54	65	47	65	47	65	47	59	42	59	42	59	42
	36	84	60	84	60	84	60	73	52	73	52	73	52	65	47	65	47	65	47

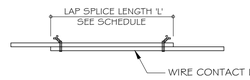
7 BAR DEVELOPMENT LENGTH(Ld) SCHEDULE

CLASS "A" LAP SPLICE SCHEDULE (L) (INCHES)

		Fc' = 3000 psi						Fc' = 4000 psi						Fc' = 5000 psi					
		CONDITION 1		CONDITION 2		CONDITION 3		CONDITION 1		CONDITION 2		CONDITION 3		CONDITION 1		CONDITION 2		CONDITION 3	
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
ALL CONCRETE WALLS & DIAPHRAGM MEMBER TYPE BAR SIZES	10	21	17	21	17	21	17	19	16	19	16	19	16	17	16	17	16	17	16
	12	28	22	30	23	28	22	25	19	26	20	25	19	22	17	23	18	22	17
	16	35	27	46	35	35	27	31	24	40	31	31	24	27	21	36	21	21	16
	20	42	33	66	51	46	36	37	28	57	44	40	31	33	25	51	39	36	28
	22	49	38	90	69	63	37	43	33	76	60	54	42	38	29	69	54	49	38
	25	59	45	117	90	82	63	51	39	101	78	71	55	46	35	91	70	64	49
	28	74	57	148	114	104	80	65	50	129	99	90	69	58	45	115	89	81	62
	32	94	73	188	145	132	101	82	63	163	125	114	88	73	56	146	112	102	79
	36	116	89	232	178	162	125	101	77	201	154	141	108	90	69	180	138	126	97
ALL CONCRETE WALLS & DIAPHRAGM ALL MEMBERS U.N.O.	10	29	21	29	21	29	21	28	20	28	20	28	20	28	20	28	20	28	20
	12	39	28	39	28	39	28	34	24	34	24	34	24	30	22	30	22	30	22
	16	48	35	48	35	48	35	42	30	42	30	42	30	38	27	38	27	38	27
	20	58	42	58	42	58	42	50	36	50	36	50	36	45	32	45	32	45	32
	22	68	48	68	48	68	48	59	42	59	42	59	42	52	38	52	38	52	38
	25	77	55	77	55	77	55	67	48	67	48	67	48	60	43	60	43	60	43
	28	87	62	87	62	87	62	75	54	75	54	75	54	67	48	67	48	67	48
	32	98	70	98	70	98	70	85	61	85	61	85	61	76	54	76	54	76	54
	36	109	78	109	78	109	78	94	67	94	67	94	67	84	60	84	60	84	60



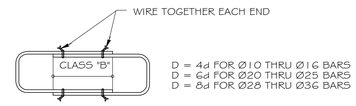




MINIMUM 2 WIRE TIES AT ALL SPLICES PROJECTING FROM FOOTINGS

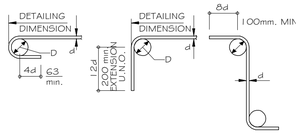
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 300mm CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- THESE BAR DEVELOPMENT LENGTHS APPLY TO REGULAR WEIGHT CONCRETE, MULTIPLY THE SPECIFIED DEVT. LENGTH BY 1.3 FOR LIGHTWEIGHT CONCRETE.
- ALL DETAILING OF REINFORCEMENT SHALL COMPLY WITH THIS SCHED. UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
- db INDICATES DIAMETER OF THE BAR.
- LENGTHS SHOWN UNDER CONDITION 1 SHALL BE USED WHERE ANY ONE OF THE FOLLOWING IS SATISFIED:
  - A. BEAM AND COLUMN BARS WHERE "BAR SPACING ≥ db".
  - B. INNER LAYER OF SLAB OR WALL REINFORCEMENT WHERE "BAR SPACING ≥ 4db".
  - C. ANY REINFORCEMENT WHERE "BAR COVER ≥ 2db" AND "BAR SPACING ≥ 4db".
- LENGTHS SHOWN UNDER CONDITION 2 SHALL BE USED WHERE "BAR COVER ≤ db" OR "BAR SPACING ≤ 3db".
- LENGTHS SHOWN UNDER CONDITION 3 SHALL BE USED WHERE CONDITION 1 OR 2 ARE NOT SATISFIED.
- IF "BAR SPACING ≥ 6db" AND "BAR SPACING ≥ 2.5db" USE 80% OF LENGTH SPECIFIED IN SCHEDULE ABOVE.
- USE CLASS "B" SPLICES U.N.O. AT CLASS "B" SPLICES ONE HALF OR LESS OF THE TOTAL REINFORCEMENT. REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH.
- FOR CLASS "A" SPLICES USE SAME VALUES AS PER Ld.
- SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZES BARS.
- AT CONCRETE WALLS SPLICES IN HORIZONTAL REINFORCEMENT SHALL BE STAGGERED.
- AT CONCRETE WALLS SPLICES IN TWO CURTAINS, WHERE USED, SHALL NOT OCCUR IN THE SAME LOCATION.
- ALL FOOTING DOWELS SHALL HAVE CLASS "B" LAP SPLICE AT VERTICAL WALL/COLUMN BARS (STAGGER DOWEL HEIGHTS).

8 BAR BENDING DETAIL



TIE LAP DETAIL

STANDARD HOOK DETAILS



MAIN BAR END HOOKS (ALL GRADES)

BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm ø	60	75	125	150
12mm ø	75	100	150	200
16mm ø	95	125	175	250
20mm ø	115	150	200	300
25mm ø	150	200	230	450
28mm ø	240	300	350	550
32mm ø	300	335	450	600

9 BAR BENDING DETAIL

FROM THE OFFICE OF:	PROJECT TITLE:	DESIGNED BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF MULTI-PURPOSE COVERED AREA (EVACUATION CENTER) @ PAMPANGA SPORTS COMPLEX LOCATION: LOURDES, CITY OF SAN FERNANDO, PAMPANGA	KENWAY D. TAYAG ARCHITECT II	SHEELAH MARIE M. MIRANDA ENGINEER II PATRICK LAWRENCE S. SANTOS ENGINEERING ASSISTANT	RUSSEL L. HERNANDEZ CONSTRUCTION DIVISION HEAD	WILFREDO A. MANALILI ASST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS- SHOWN	S-1 10/30

NOTES ON BEAMS AND GIRDERS

1. UNLESS , OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIRDER AT LEAST 6mmØ FOR EVERY 4.50M OF SPAN , EXCEPT CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 20mm FOR EVERY 3.0M OF FREE SPAN.

2. TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1 .

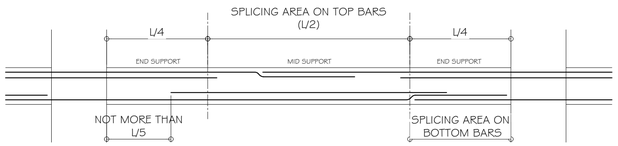
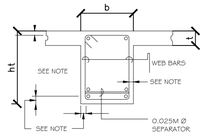


FIGURE B-1

3. IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.

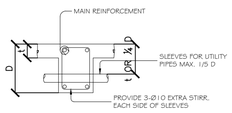
4. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mmØ BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS

5. MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIG. B-2 UNLESS SPECIFIED ELSEWHERE.



NOTE 1
20 mm CLEAR FOR JOIST
40 mm CLEAR FOR BEAMS AND GIRDERS

FIG. B-2



TYP. DET. FOR SLEEVES
THRU CONCRETE BEAM

FIG. B-3

6. WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINFORCING BAR SHALL BE SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.

7. GENERALLY NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR, SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B'. WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125 % OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

NOTES ON CONCRETE HOLLOW BLOCK WALLS

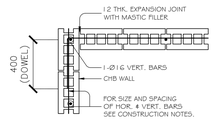
1. UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.

2. PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 6mmØ TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

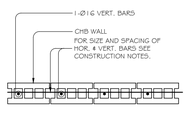
SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT			
BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
75 mm	10mmØ @ EVERY 3RD LEVEL	10mmØ @ 600mm O.C.	A. MINIMUM LAPS AT SPLICE = 0.25M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOR. REINFORCEMENTS SHALL BE PROVIDED
125 mm	10mmØ @ EVERY 3RD LEVEL	10mmØ @ 600mm O.C.	
150 mm	10mmØ @ EVERY 3RD LEVEL	10mmØ @ 600mm O.C.	
200 mm	12mmØ @ EVERY 3RD LEVEL	10mmØ @ 600mm O.C.	

REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

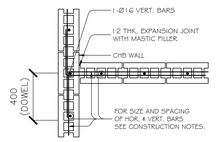
LINTELS IN BLOCK WALLS						
CLEAR SPAN ('L')	TOTAL LENGTH (L+0.40M)	MIN. fc' (MPa)	HEIGHT OF LINTEL (MM)	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20M 1.50M 1.80M	1.60M 1.90M 2.20M	14.0	200 200 200	1-Ø10 1-Ø10 1-Ø12	1-Ø10 1-Ø10 1-Ø10	Ø6mm @ 200mm Ø6mm @ 200mm Ø6mm @ 200mm
2.10M 2.40M 2.70M	2.50M 2.90M 3.10M	17.0	250 250 250	1-Ø12 1-Ø12 1-Ø16	1-Ø10 1-Ø10 1-Ø12	Ø6mm @ 200mm Ø6mm @ 200mm Ø10mm @ 200mm
3.00 3.30 3.80	3.40M 3.70M 4.00M	20.0	300 300 300	1-Ø16 1-Ø16 1-Ø20	1-Ø12 1-Ø12 1-Ø12	Ø10mm @ 200mm Ø10mm @ 200mm Ø10mm @ 200mm



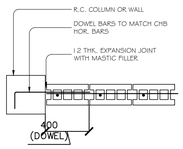
CORNER WALL



OPENING OR END WALL

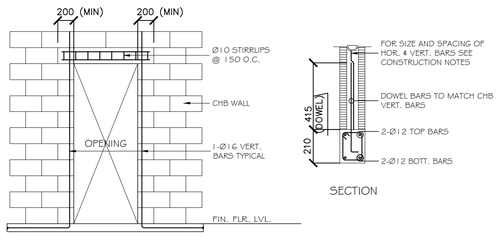


INTERSECTION WALL

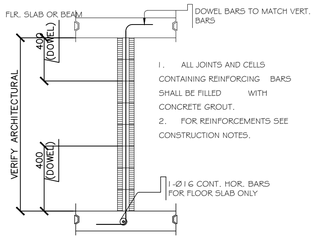


INTERSECTING R.C. COL. OR WALL

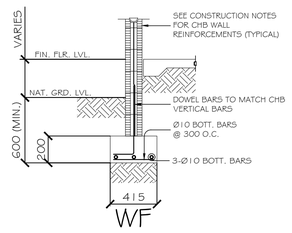
TYPICAL CONNECTION DETAIL OF MASONRY WALL

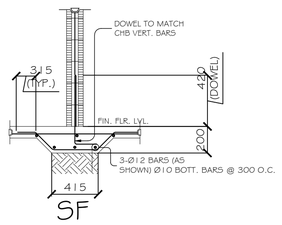


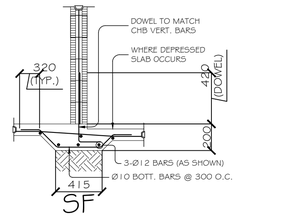
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



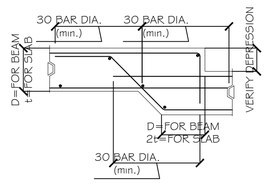
TYP. SECTION OF MASONRY
PARTITION REINFORCEMENTS



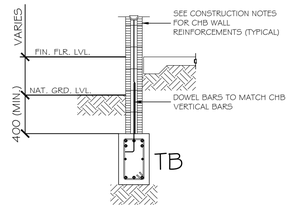




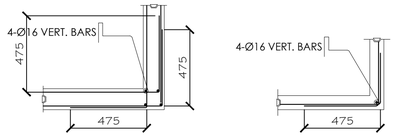
TYPICAL CHB FOOTING DETAILS
(WHERE APPLICABLE)



TYPICAL DETAIL FOR BEAM
OR SLAB CHANGE SOFFIT



TYPICAL CHB FOOTING DETAILS



TYPICAL CONNECTION DETAIL OF R.C.
WALL AT CORNERS

NOTES ON WELDS

1. USE E70xx ELECTRODES FOR ALL MEMBERS WELDED.
2. WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

NOTES ON STRUCTURAL STEEL

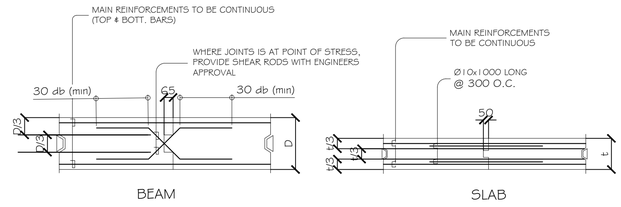
1. STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
2. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
3. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
4. UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM AWS E60 ELECTRODES.
5. ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.

NOTES ON EMBEDED PIPES

A. ALL EMBEDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHCHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
B. NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
C. NO PIPES SHALL BE EMBEDED IN COLUMNS.

NOTES ON CONSTRUCTION JOINTS IN CONCRETE

1. WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED. SHEAR KEY SHALL BE PROVIDED AT THE JOINT.



TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.

NOTES ON CONCRETE WALLS

1. ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

WALL THICKNESS	REINFORCEMENT			VERTICAL SECTION
	HORIZONTAL	VERTICAL	REMARKS	
100mm	Ø10mm @ 250mm O.C.	Ø10mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGERED OUT	VERT. BARS HORIZ. BARS
125mm	Ø10mm @ 200mm O.C.	Ø10mm @ 250mm O.C.		
150mm	Ø12mm @ 250mm O.C.	Ø12mm @ 300mm O.C.		

REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.

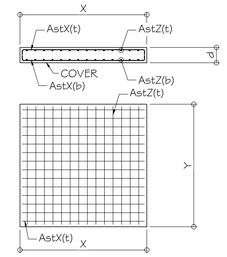
2.1.1.1.CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH #16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M.O.C.

2.1.1. UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mmØ BARS FOR 225mm, 200mm, 175mm, 150mm, USE 2-16mmØ. FOR 125mm AND 100mm WALLS, USE 2-12mmØ BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED (SEE FIG.1)

FROM THE OFFICE OF:	PROJECT TITLE:	DESIGNED BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF MULTI-PURPOSE COVERED AREA (EVACUATION CENTER) @ PAMPANGA SPORTS COMPLEX LOCATION: LOURDES, CITY OF SAN FERNANDO, PAMPANGA	KENWAY D. TAYAG ARCHITECT II	SHEELAH MARIE M. MIRANDA ENGINEER II PATRICK LAWRENCE S. SANTOS ENGINEERING ASSISTANT	RUSSEL L. HERNANDEZ CONSTRUCTION DIVISION HEAD	WILFREDO A. MANALILI ASST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS- SHOWN	S-2 11/30

SCHEDULE OF COLUMN AND FOOTINGS

COLUMN NUMBER	COLUMN PEDESTAL			FOUNDATION MARK	FOUNDATION			Total Ht	COVER	REINFORCEMENT			
	X (mm)	Y (mm)	h (mm)		X (mm)	Y (mm)	d (mm)		(mm)	AstX(t)	AstZ(t)	AstX(b)	AstZ(b)
			Fr. FGL										
C1	600	600	2000	FC1	3700	37300	500	2500	75	373 - Ø20@100mm	14 - Ø20@280mm	139 - Ø20@270mm	14 - Ø20@280mm
C1	600	600	2000	FC2	3350	8800	500	2500	75	32- Ø20@285mm	13 - Ø20@285mm	32 - Ø20@285mm	13 - Ø20@285mm
C1	600	600	2000	FC3	6900	3300	500	2500	75	13 - Ø20@285mm	25 - Ø20@275mm	13 - Ø20@285mm	25 - Ø20@275mm
C1	600	600	2000	FC4	4000	9200	500	2500	75	34 - Ø20@275mm	15 - Ø20@280mm	34 - Ø20@275mm	15 - Ø20@280mm
C1	600	600	2000	F1	3100	3100	500	2500	75	12 - Ø20@280mm	12 - Ø20@280mm	NOT FOUND	NOT FOUND
C2	500	500	1200	F3	2400	2400	400	1600	75	9 - Ø20@280mm	9 - Ø20@280mm	NOT FOUND	NOT FOUND



NOT ON SCALE

FOUNDATION PLAN

SCALE 1 : 100 MTS.

FROM THE OFFICE OF:	PROJECT TITLE:	DESIGNED BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF MULTI-PURPOSE COVERED AREA (EVACUATION CENTER) @ PAMPANGA SPORTS COMPLEX LOCATION: LOURDES, CITY OF SAN FERNANDO, PAMPANGA	KENWAY D. TAYAG ARCHITECT II	SHEELAH MARIE M. MIRANDA ENGINEER II PATRICK LAWRENCE S. SANTOS ENGINEERING ASSISTANT	RUSSEL L. HERNANDEZ CONSTRUCTION DIVISION HEAD	WILFREDO A. MANALILI ASST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS- SHOWN	S-3 12/30

COLUMN NUMBER	COLUMN PEDESTAL A (mm)	B (mm)	h (mm) Fr. FGL	FOUNDATION MARK	FOUNDATION A (mm)	B (mm)	d (mm)	Total Ht	COVER (mm)	REINFORCEMENT AstX(t)	AstZ(t)	AstX(b)	AstZ(b)
C3	300	300	1300	F2	2000	2000	300	1600	75	14 - Ø16@150mm	14 - Ø16@150mm	NOT FOUND	NOT FOUND
C3	300	300	1300	F4	2650	2000	300	1600	75	14 - Ø16@150mm	18 - Ø16@150mm	NOT FOUND	NOT FOUND

PB= PLINTH BEAM
SC= STIFFENER COLUMN

FLOOR FRAMING PLAN
SCALE 1 : 100 MTS.

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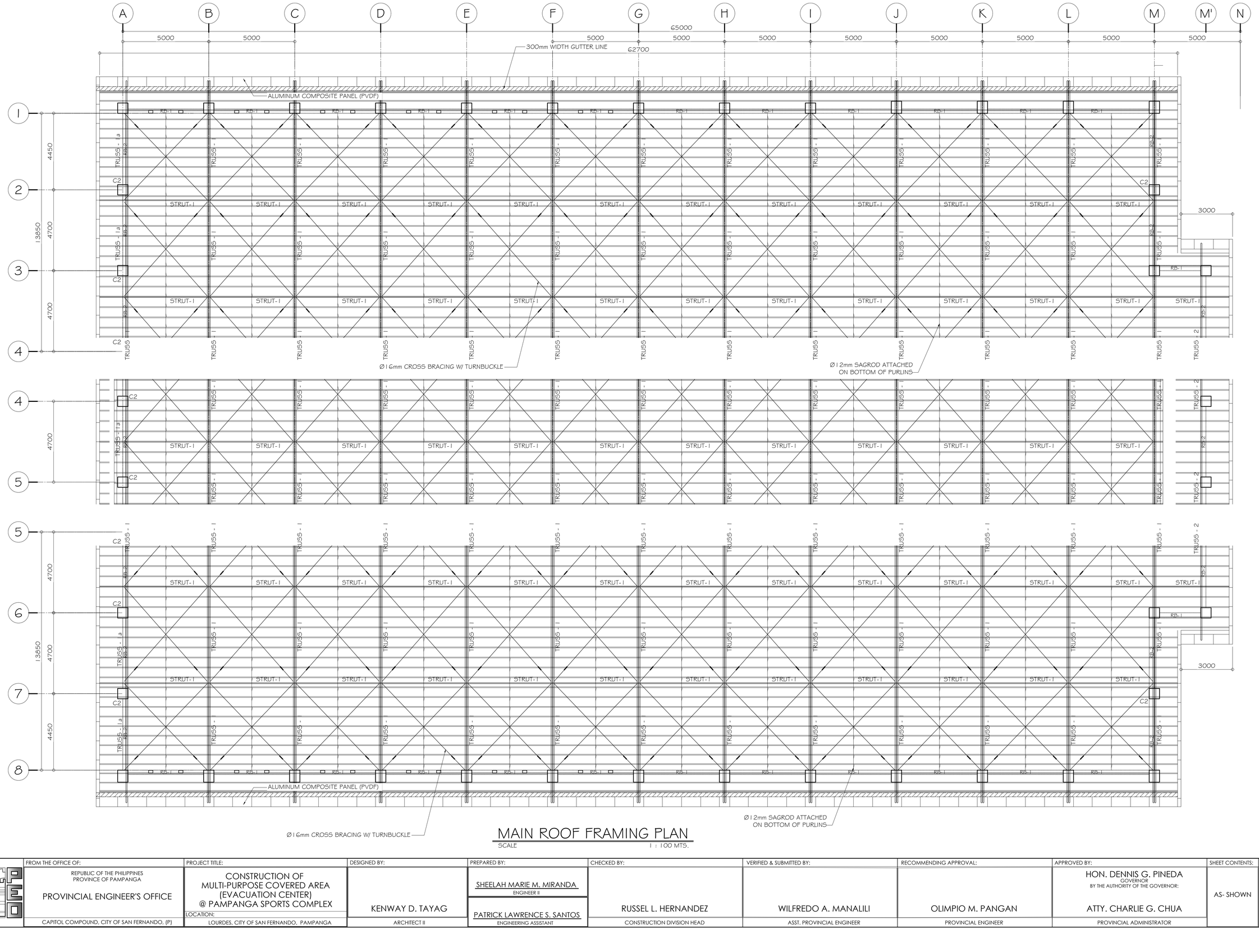

MAIN ROOF FRAMING PLAN

SCALE 1 : 100 MTS.

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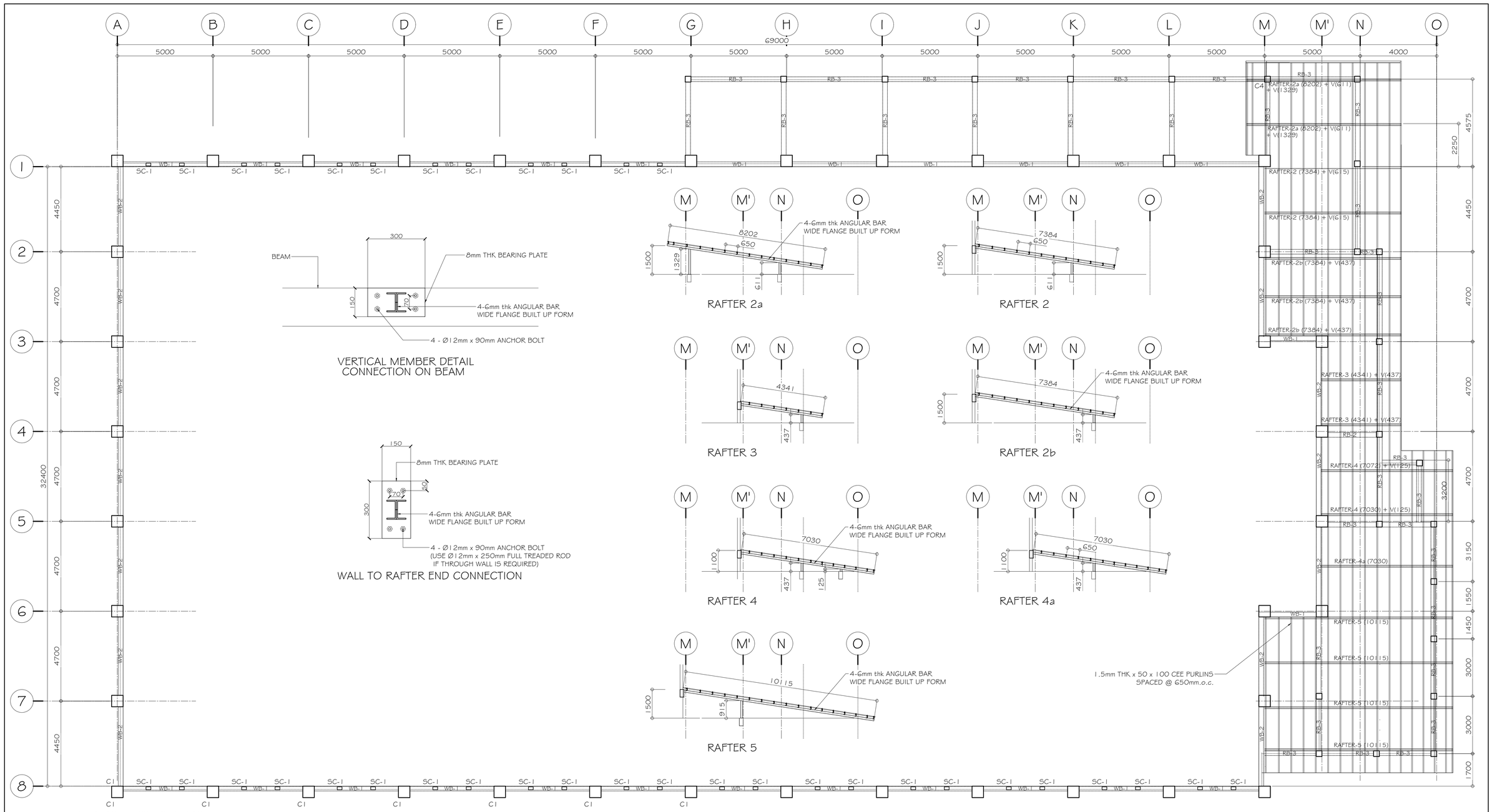


VERTICAL MEMBER DETAIL
CONNECTION ON BEAM

WALL TO RAFTER END CONNECTION

RAFTER 2a

RAFTER 2

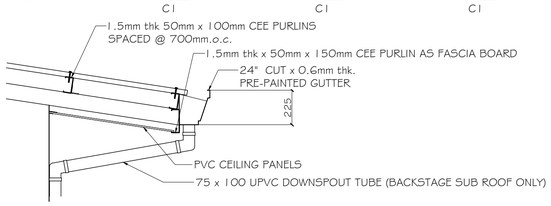
RAFTER 3

RAFTER 2b

RAFTER 4

RAFTER 4a

RAFTER 5



SUB ROOF GUTTER DETAIL
SCALE 1 : 20 MTS.

SUB ROOF FRAMING
SCALE 1 : 100 MTS.

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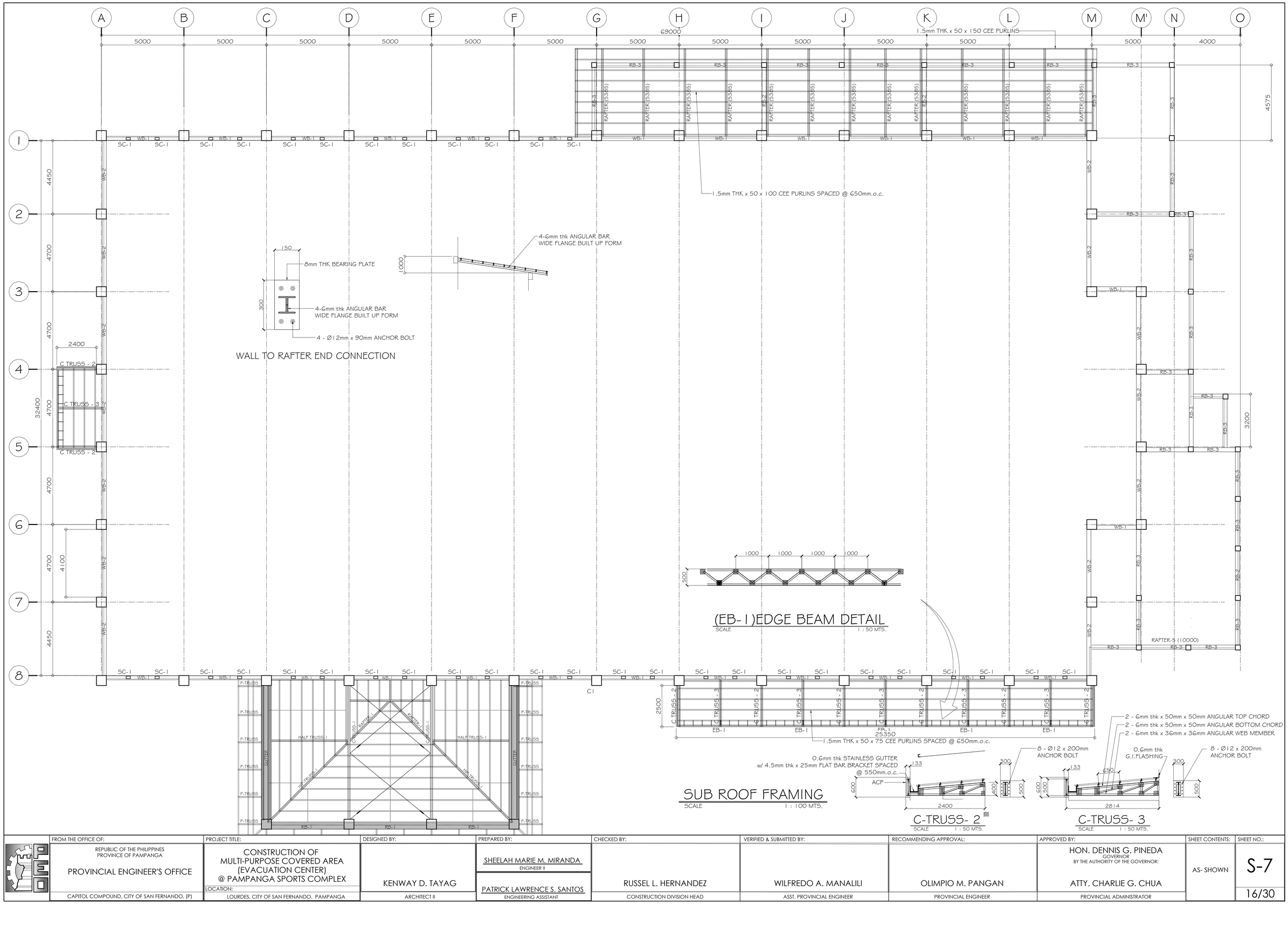

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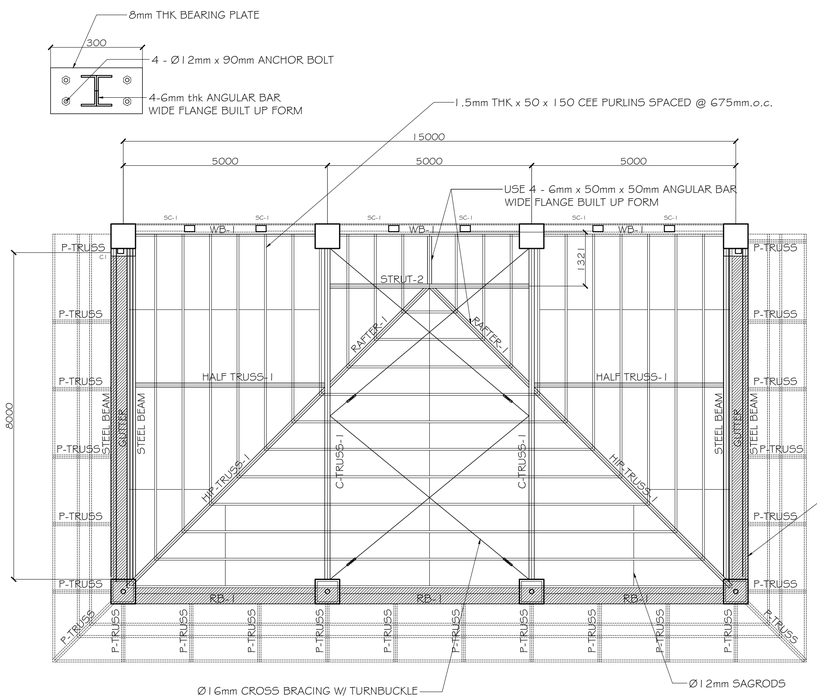
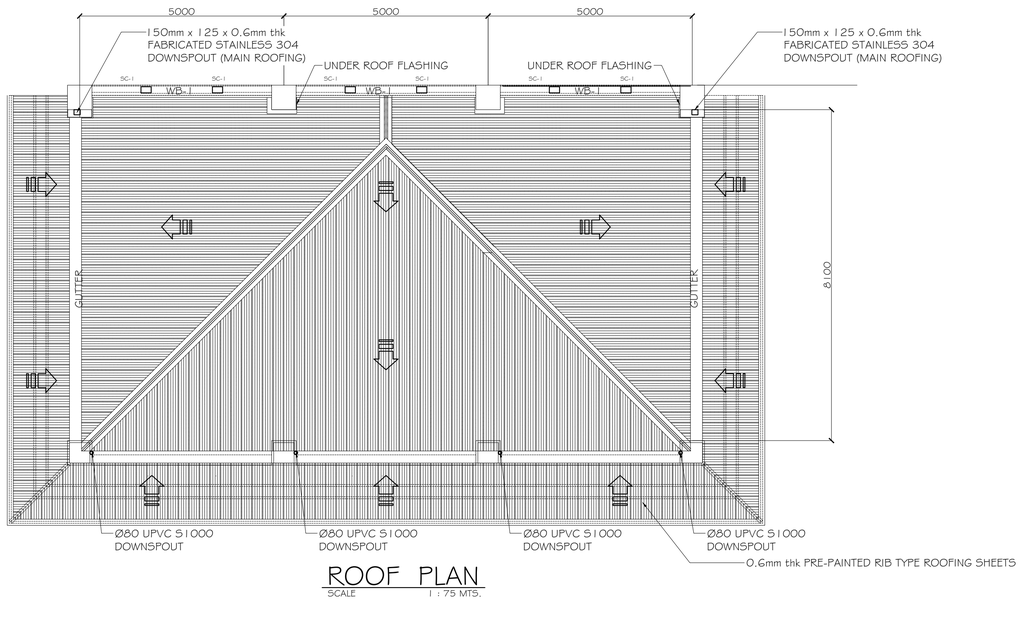
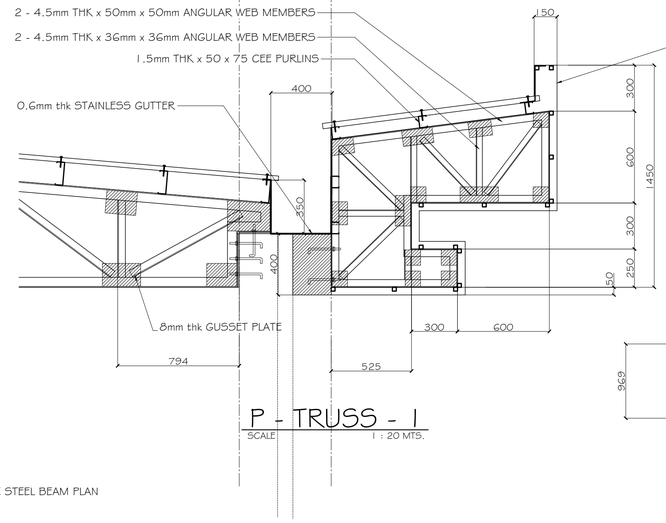


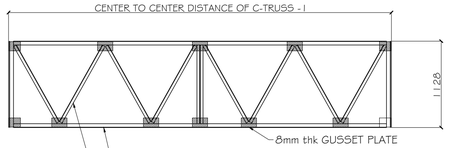
ROOF FRAMING PLAN
SCALE 1 : 75 MTS.



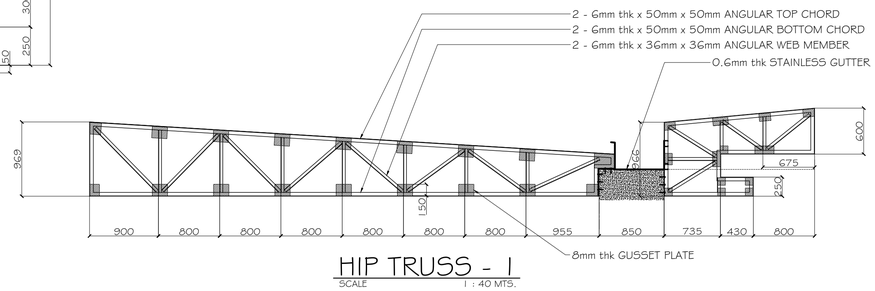
ROOF PLAN
SCALE 1 : 75 MTS.



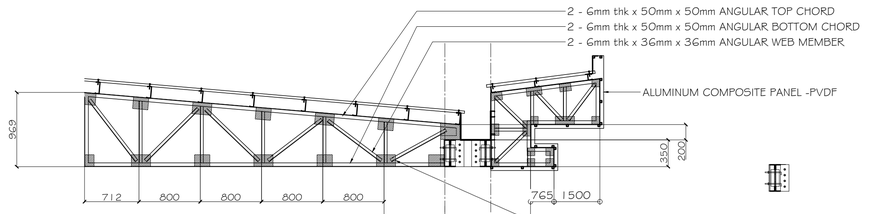
P - TRUSS - 1
SCALE 1 : 20 MTS.



STRUT - 2
SCALE 1 : 40 MTS.



HIP TRUSS - 1
SCALE 1 : 40 MTS.



HALF TRUSS - 1
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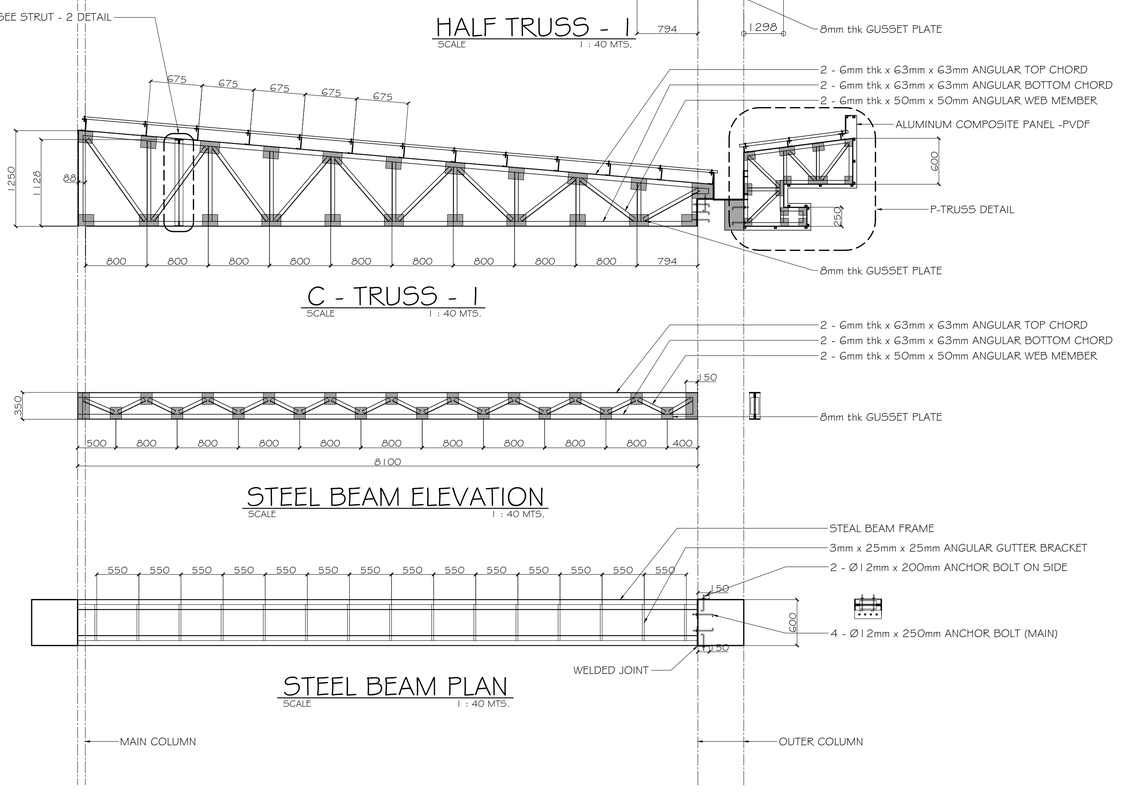

C - TRUSS - 1
SCALE 1 : 40 MTS.

STEEL BEAM ELEVATION
SCALE 1 : 40 MTS.

STEEL BEAM PLAN
SCALE 1 : 40 MTS.

MAIN COLUMN

OUTER COLUMN

MAIN ENTRANCE ROOFING DETAIL

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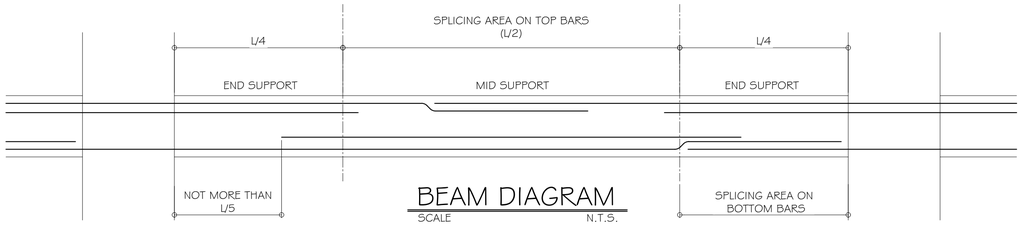
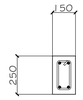
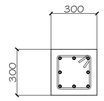


BEAM DIAGRAM
SCALE N.T.S.



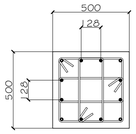
4 - Ø12mm VERTICAL BARS
1 - Ø10mm x 857 LATERAL TIES
SPACING @ 200mm.o.c.

DETAIL OF SC-1
SCALE 1 : 20 MTS.



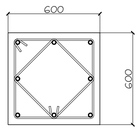
8 - Ø16mm VERTICAL BARS
1 - Ø10mm x 1200 LATERAL TIES
SPACING @ 200mm.o.c.

DET. OF COL. @ FC5&FC6
SCALE 1 : 20 MTS.

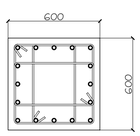


12 - Ø16mm VERTICAL BARS
1 - Ø10mm x 2000 LATERAL TIES
1 - Ø10mm x 1500 LATERAL TIES
1 - Ø10mm x 1500 LATERAL TIES
SPACING @ 200mm.o.c.

DET. OF COL. @ C2
SCALE 1 : 20 MTS.



TOP OF MID WALL BEAM TO RB
8 - Ø25mm VERTICAL BARS
1 - Ø10mm x 2250 LATERAL TIES
1 - Ø10mm x 1875 LATERAL TIES
SPACING @ 150mm.o.c.

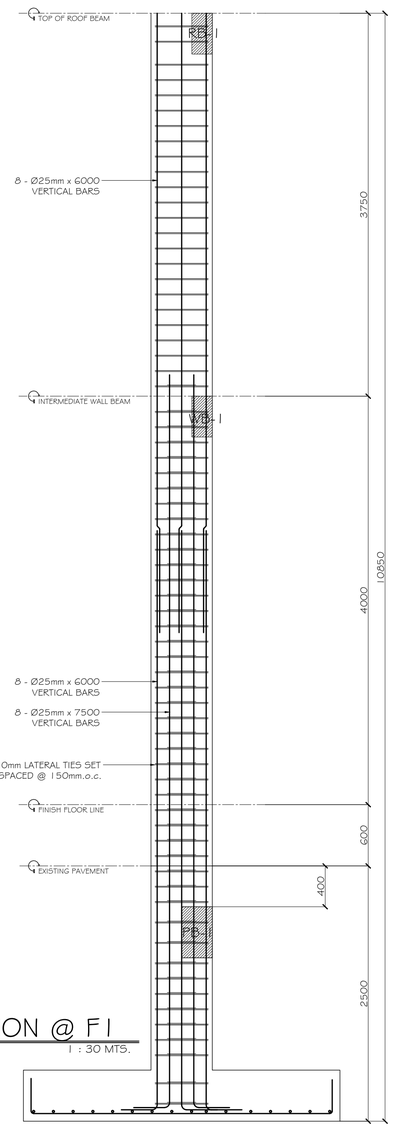


FTG TO TOP MID WALL BEAM
16 - Ø25mm VERTICAL BARS
1 - Ø10mm x 2250 LATERAL TIES
2 - Ø10mm x 1875 LATERAL TIES
SPACING @ 150mm.o.c.

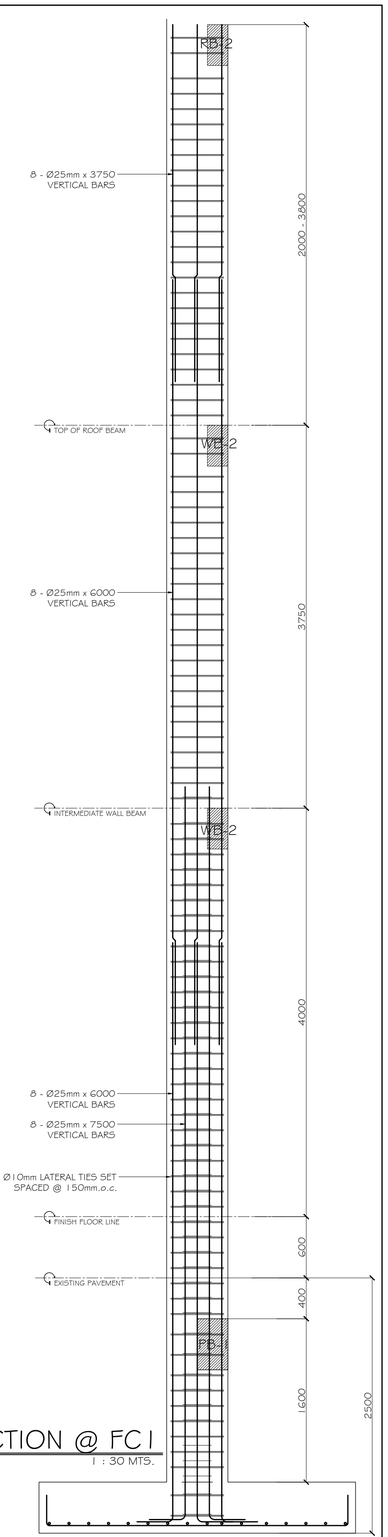
DET. OF COL. @ C1
SCALE 1 : 20 MTS.

SCHEDULE OF BEAMS (C25:Fy415)

BEAM MARK	BEAM DIMENSION (b)mm	(d)mm	MAIN REINFORCEMENT (GR.60) LEFT END SUPPORT	MID SUPPORT	RIGHT END SUPPORT	STIRRUPS SPACING
PB-1 TB-1	250	500	4-Ø20 2-Ø16 3-Ø20	3-Ø20 2-Ø16 3-Ø20	4-Ø20 2-Ø16 3-Ø20	Ø10 STIRRUPS 2-50mm; 4-100mm; & REST @ 200mm.o.c.
PB-2 TB-2	250	600	5-Ø25 2-Ø16 4-Ø25	3-Ø25 2-Ø16 2-Ø25	5-Ø25 2-Ø16 4-Ø25	Ø10 STIRRUPS 2-50mm; 4-100mm; & REST @ 200mm.o.c.
PB-3 TB-3	200	400	2-Ø20 2-Ø20	2-Ø20 2-Ø20	2-Ø20 2-Ø20	Ø10 STIRRUPS 2-50mm; 4-100mm; & REST @ 150mm.o.c.
WB-1	250	500	3-Ø20 2-Ø16 3-Ø20	2-Ø20 2-Ø16 3-Ø20	3-Ø20 2-Ø16 3-Ø20	Ø10 STIRRUPS 2-50mm; 4-100mm; & REST @ 200mm.o.c.
WB-2	250	500	5-Ø25 2-Ø16 4-Ø25	3-Ø25 2-Ø16 3-Ø25	5-Ø25 2-Ø16 4-Ø25	Ø10 STIRRUPS 2-50mm; 4-100mm; & REST @ 150mm.o.c.
RB-1 RB-3	200	400	2-Ø20 2-Ø20	2-Ø20 2-Ø20	2-Ø20 2-Ø20	Ø10 STIRRUPS 2-50mm; 4-100mm; & REST @ 150mm.o.c.
RB-2	250	500	3-Ø20 2-Ø12 2-Ø20	3-Ø20 2-Ø12 2-Ø20	3-Ø20 2-Ø12 2-Ø20	Ø10 STIRRUPS 2-50mm; 4-100mm; & REST @ 200mm.o.c.



SECTION @ F1
SCALE 1 : 30 MTS.



SECTION @ FC1
SCALE 1 : 30 MTS.

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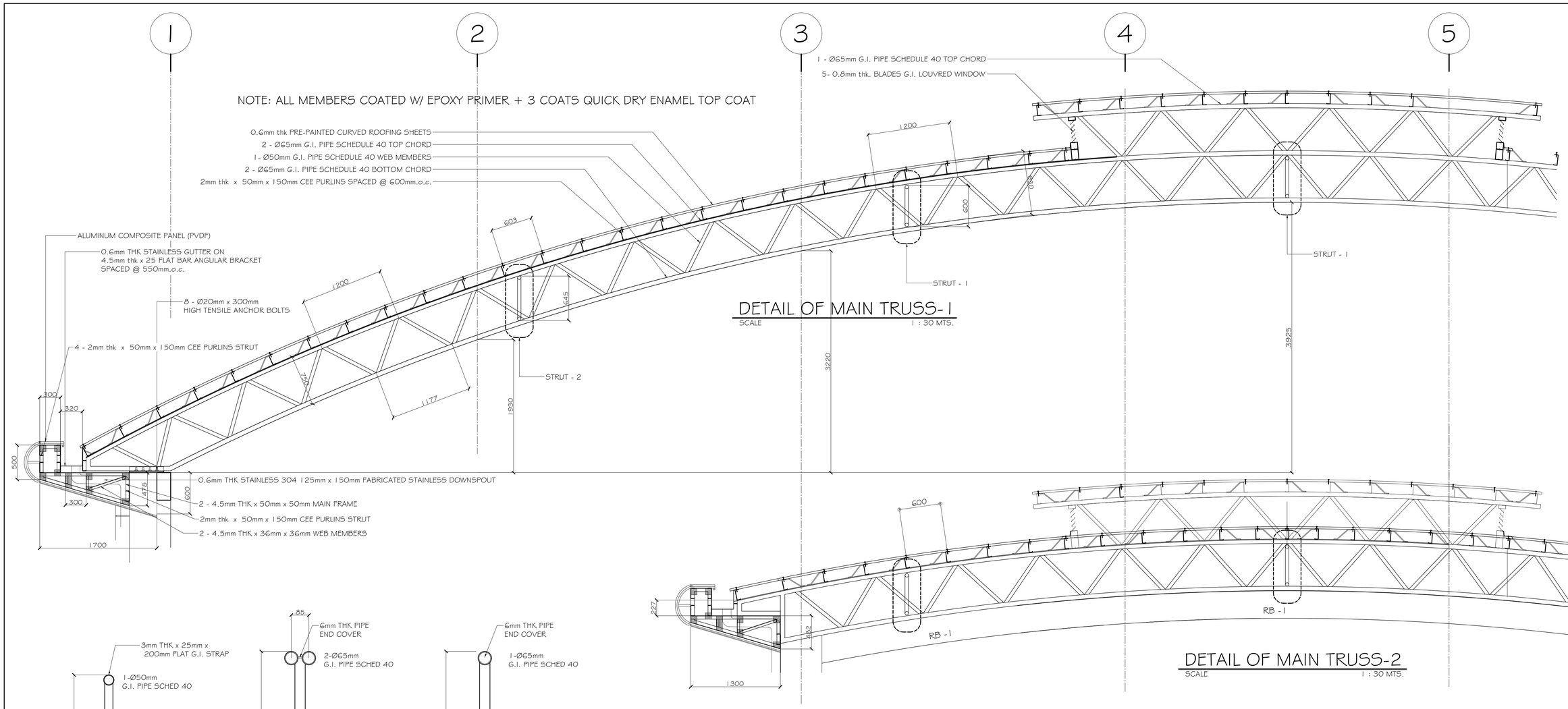
NOTE: ALL MEMBERS COATED W/ EPOXY PRIMER + 3 COATS QUICK DRY ENAMEL TOP COAT

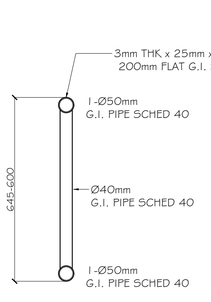


DETAIL OF MAIN TRUSS-1

SCALE 1 : 30 MTS.

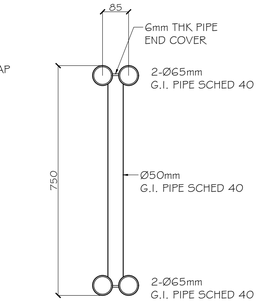
DETAIL OF MAIN TRUSS-2

SCALE 1 : 30 MTS.



STRUT SECTION

SCALE 1 : 10 MTS.



TRUSS SECTION

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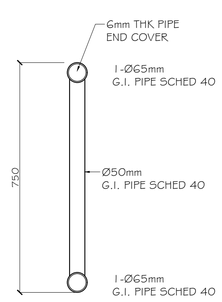
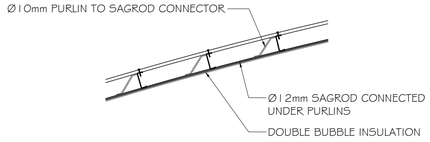


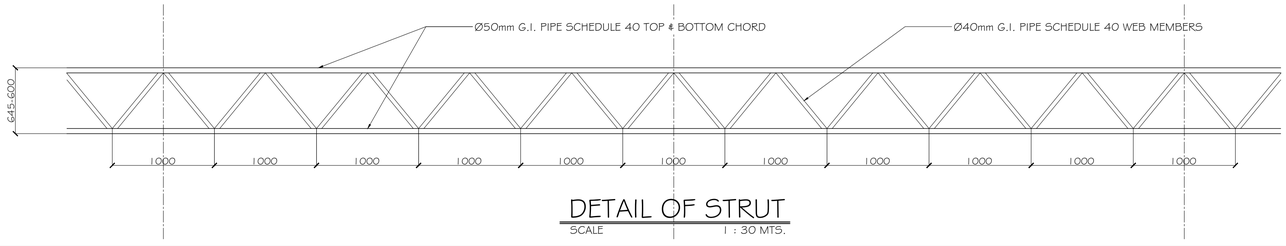
TRUSS 1a

SCALE 1 : 10 MTS.



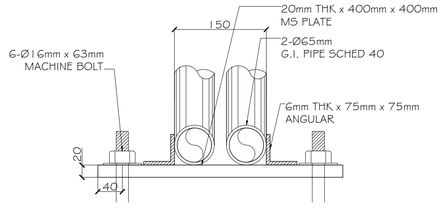
SAGROD CONNECTION

SCALE 1 : 30 MTS.



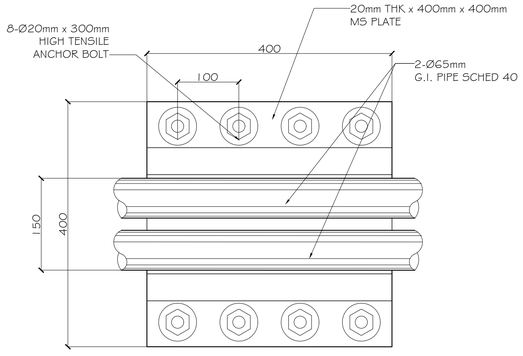
DETAIL OF STRUT

SCALE 1 : 30 MTS.



TRUSS TO BEARING PLATE CONNECTION (SECTION)

SCALE 1 : 5 MTS.



TRUSS TO BEARING PLATE CONNECTION (PLAN)

SCALE 1 : 5 MTS.

FROM THE OFFICE OF:	PROJECT TITLE:	DESIGNED BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF MULTI-PURPOSE COVERED AREA (EVACUATION CENTER) @ PAMPANGA SPORTS COMPLEX LOCATION: LOURDES, CITY OF SAN FERNANDO, PAMPANGA	KENWAY D. TAYAG ARCHITECT II	SHEELAH MARIE M. MIRANDA ENGINEER II PATRICK LAWRENCE S. SANTOS ENGINEERING ASSISTANT	RUSSEL L. HERNANDEZ CONSTRUCTION DIVISION HEAD	WILFREDO A. MANALILI ASST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS- SHOWN	S-10 19/30