

# EXISTING PUBLIC TOILET

OPS EXTENSION BUILDING
SITE DEVELOPMENT PLAN

PREPARED BY:

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AFMENT OF HEAT	

REPUBLIC OF THE PHILIPPINES
Department Of Health National Center for Mental Health | CONSTRUCTION OF PAVILION 2 OUT-PATIENT

Nueve de Pebrero Street, Baranggay Mauway, Mandaluyong City

SECTION EXTENSION

PROJECT TITLE/LOCATION:

**EVELYN T. PURINO, CE, MMHoA** Engineer III, Chief, Planning & Development Section

REVIEWED:

DIONICIO A. TOLENTINO, MPA NOEL V. REYES, MD, FPPA, MMHoA **Chief Finance Service, HFEP Coordinator** Medical Center Chief II

RECOMMENDING APPROVAL:

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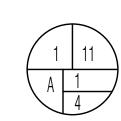
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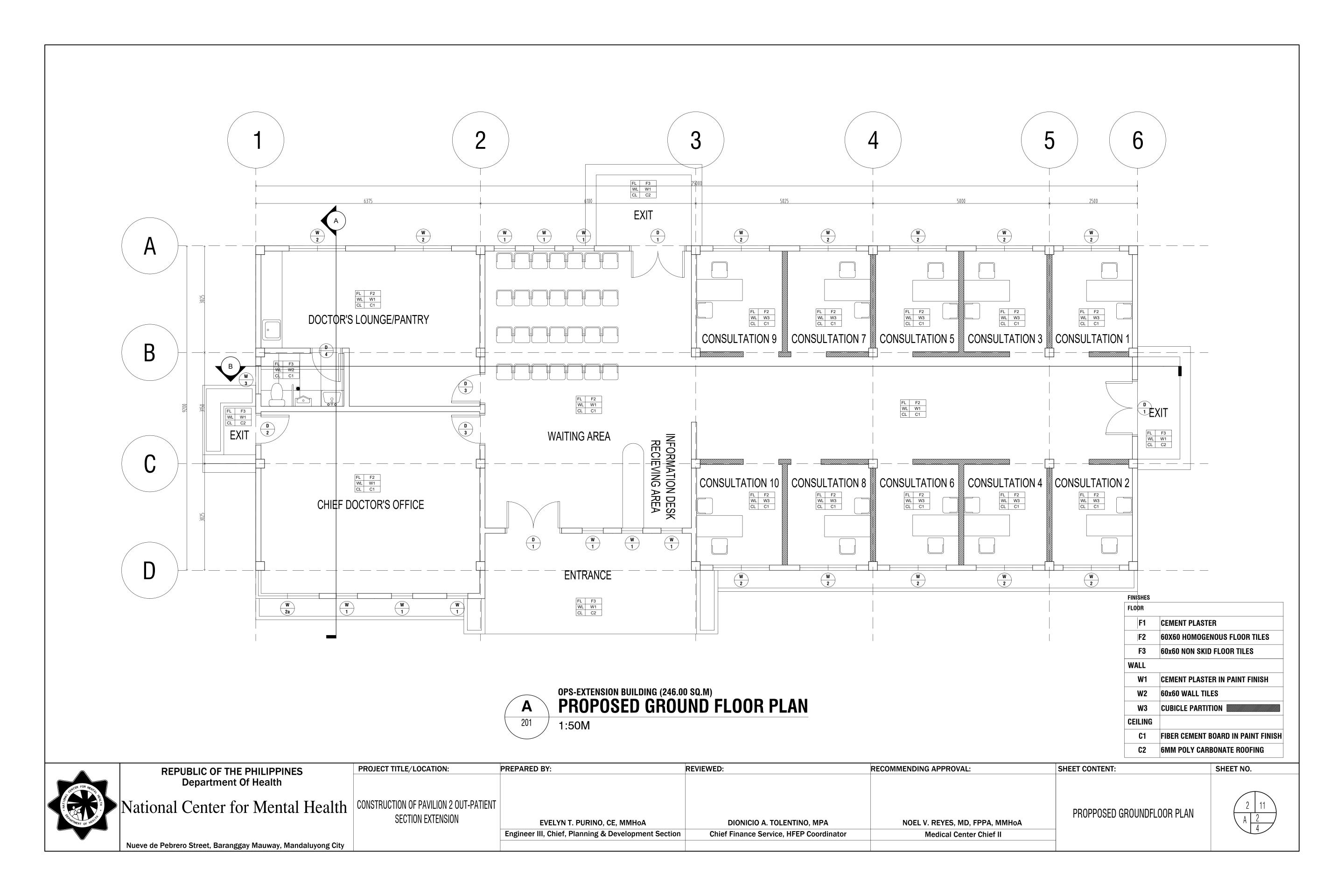
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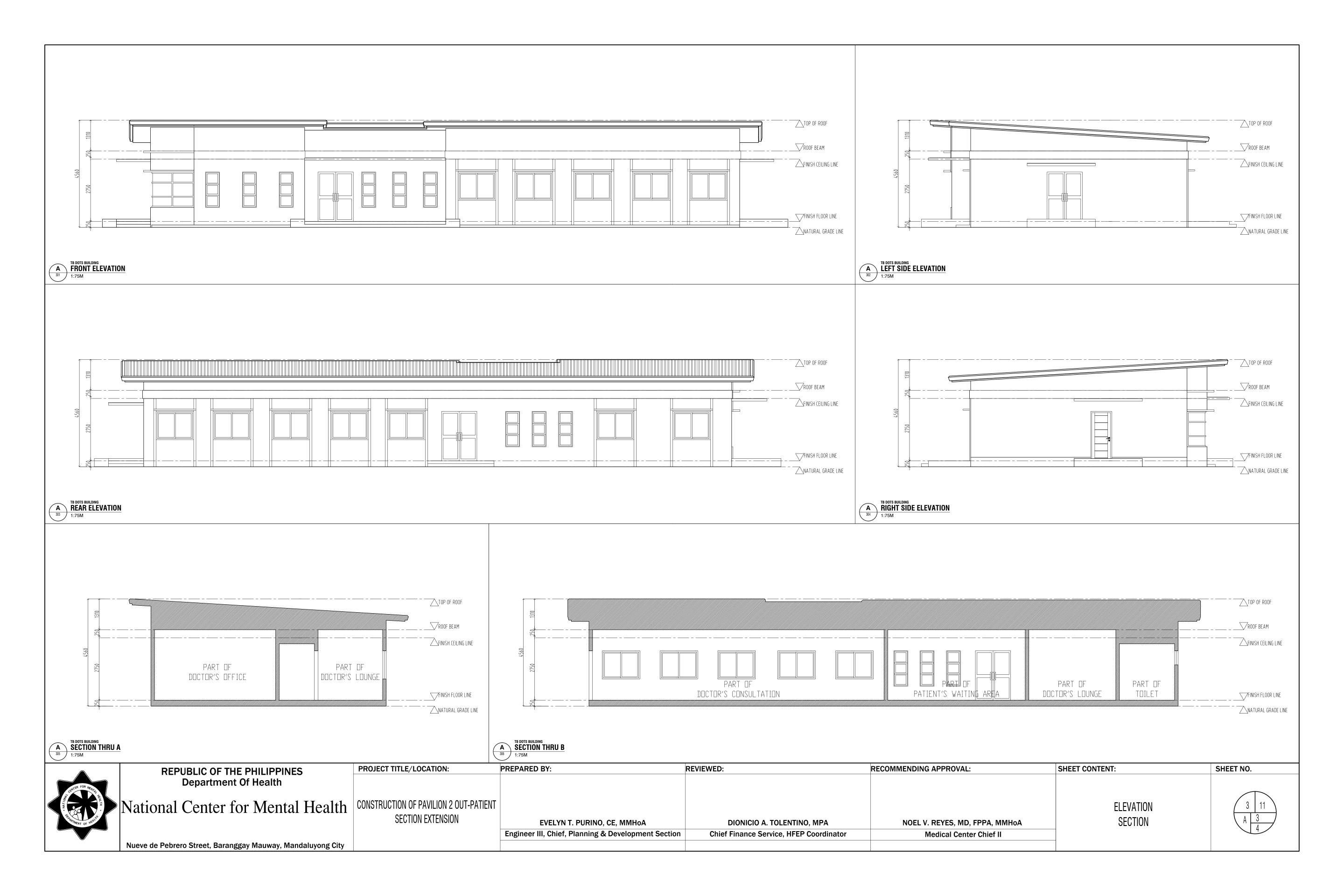
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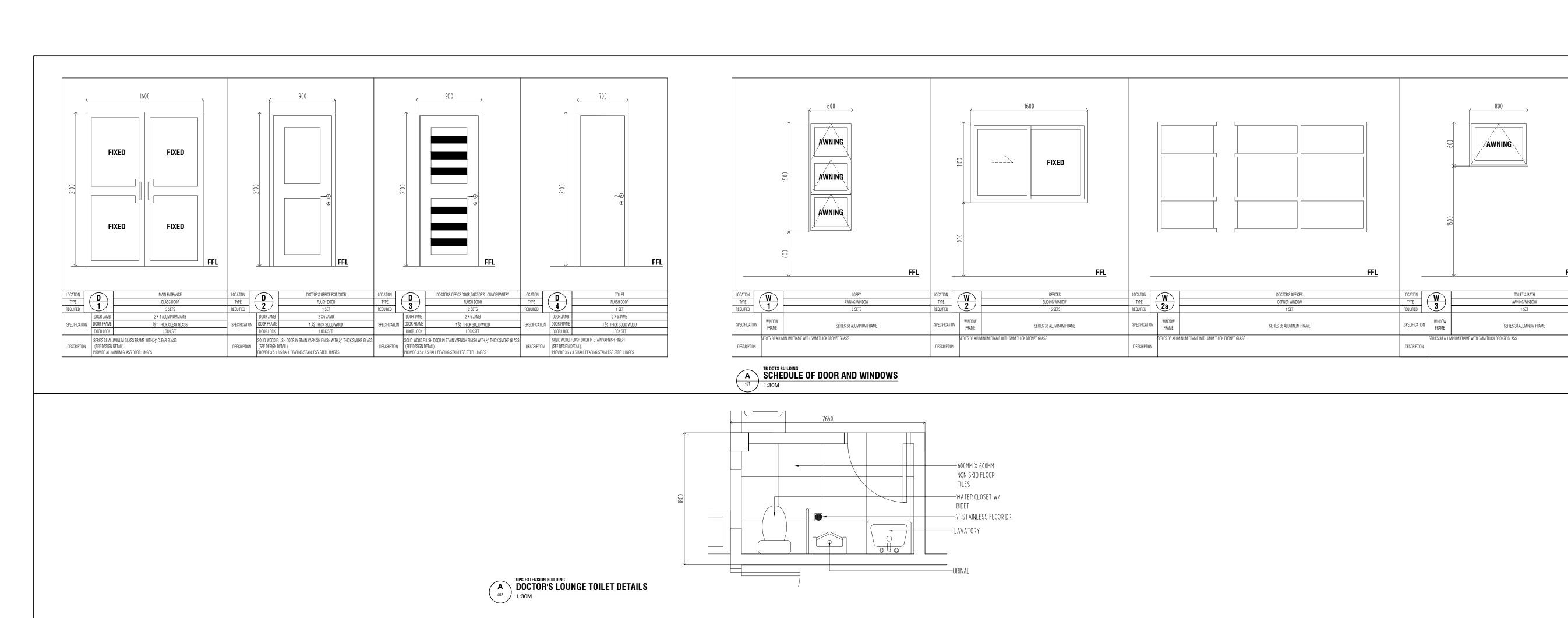
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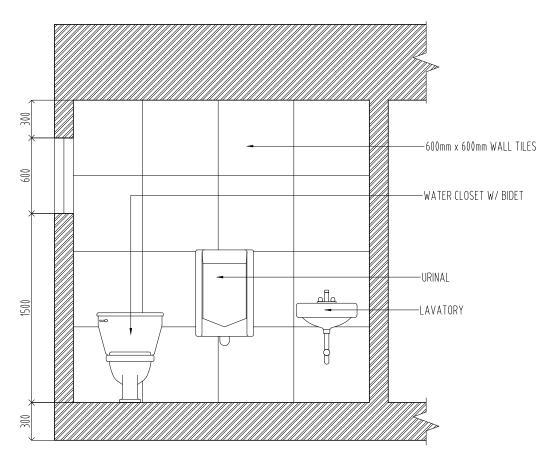


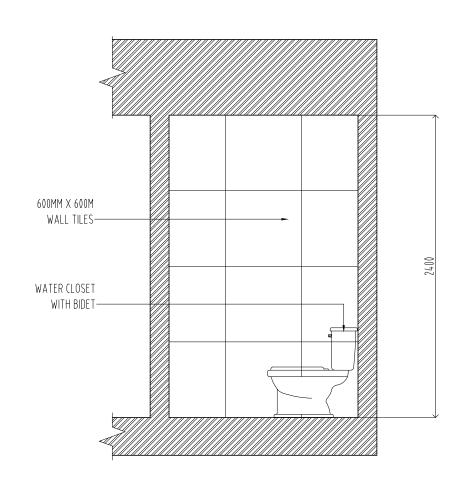
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OPS EXTENSION BUILDING SECTION THRU A

1:30M

OPS EXTENSION BUILDING
SECTION THRU B
1:30M



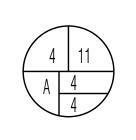
REPUBLIC OF THE PHILIPPINES
Department Of Health PROJECT TITLE/LOCATION: National Center for Mental Health | CONSTRUCTION OF PAVILION 2 OUT-PATIENT

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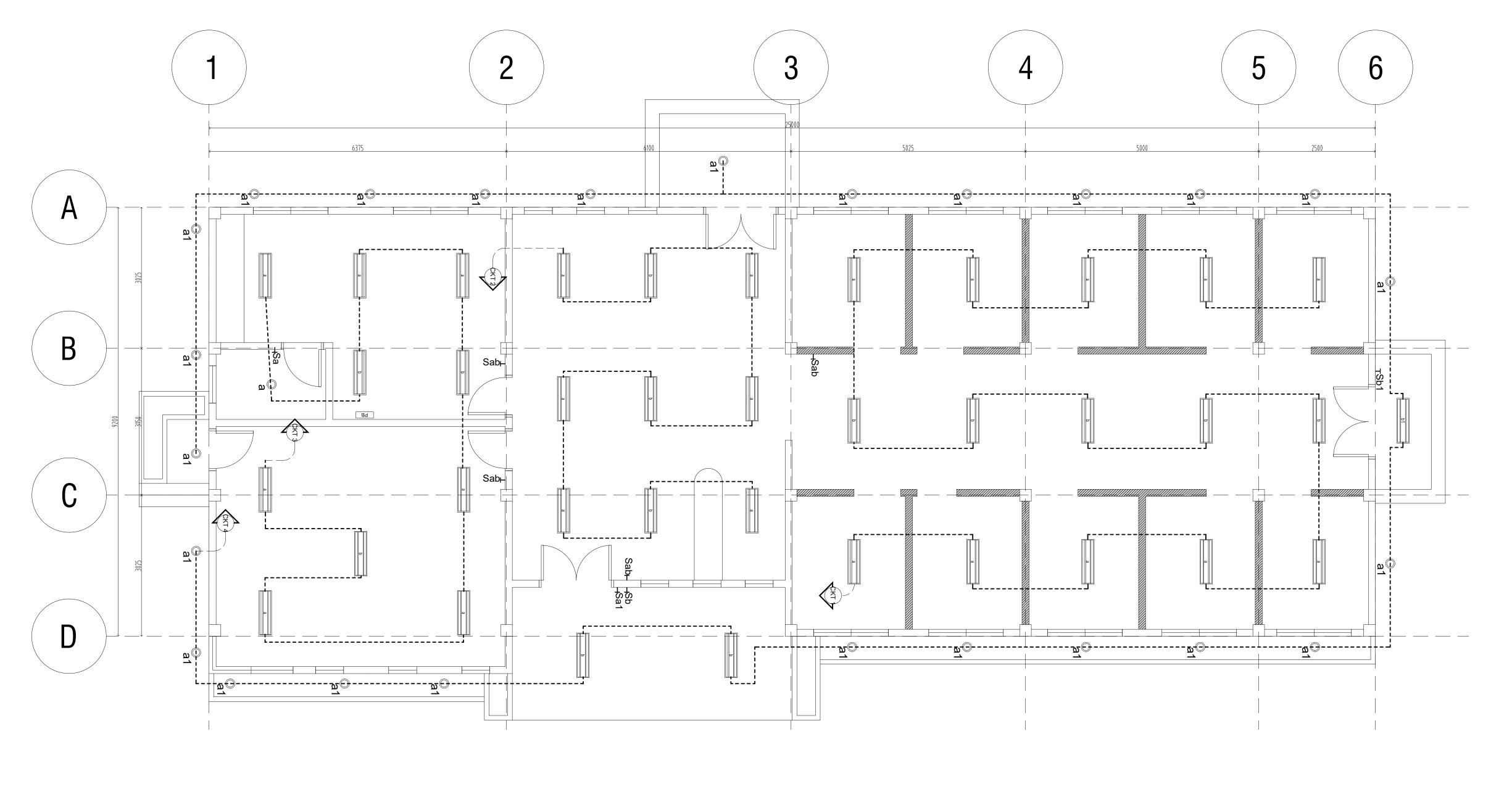
SECTION EXTENSION

	PREPARED BY:	REVIEWED:	RECOMMENDING APPROVAL:	SHEET CONTENT:
T				SCHEDULE OF
				DETAIL
	EVELYN T. PURINO, CE, MMHoA	DIONICIO A. TOLENTINO, MPA	NOEL V. REYES, MD, FPPA, MMHoA	DE17112
	Engineer III, Chief, Planning & Development Section	Chief Finance Service, HFEP Coordinator	Medical Center Chief II	

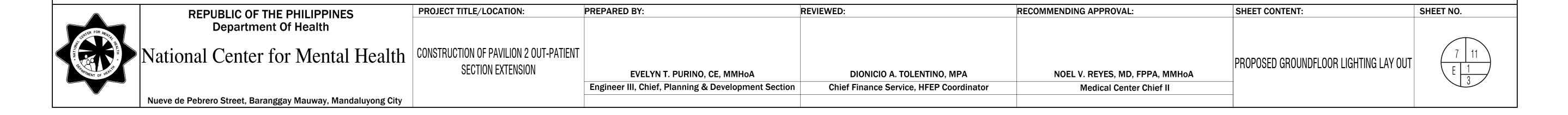
SCHEDULE OF DOOR & WINDOWS DETAILS OF TOILET

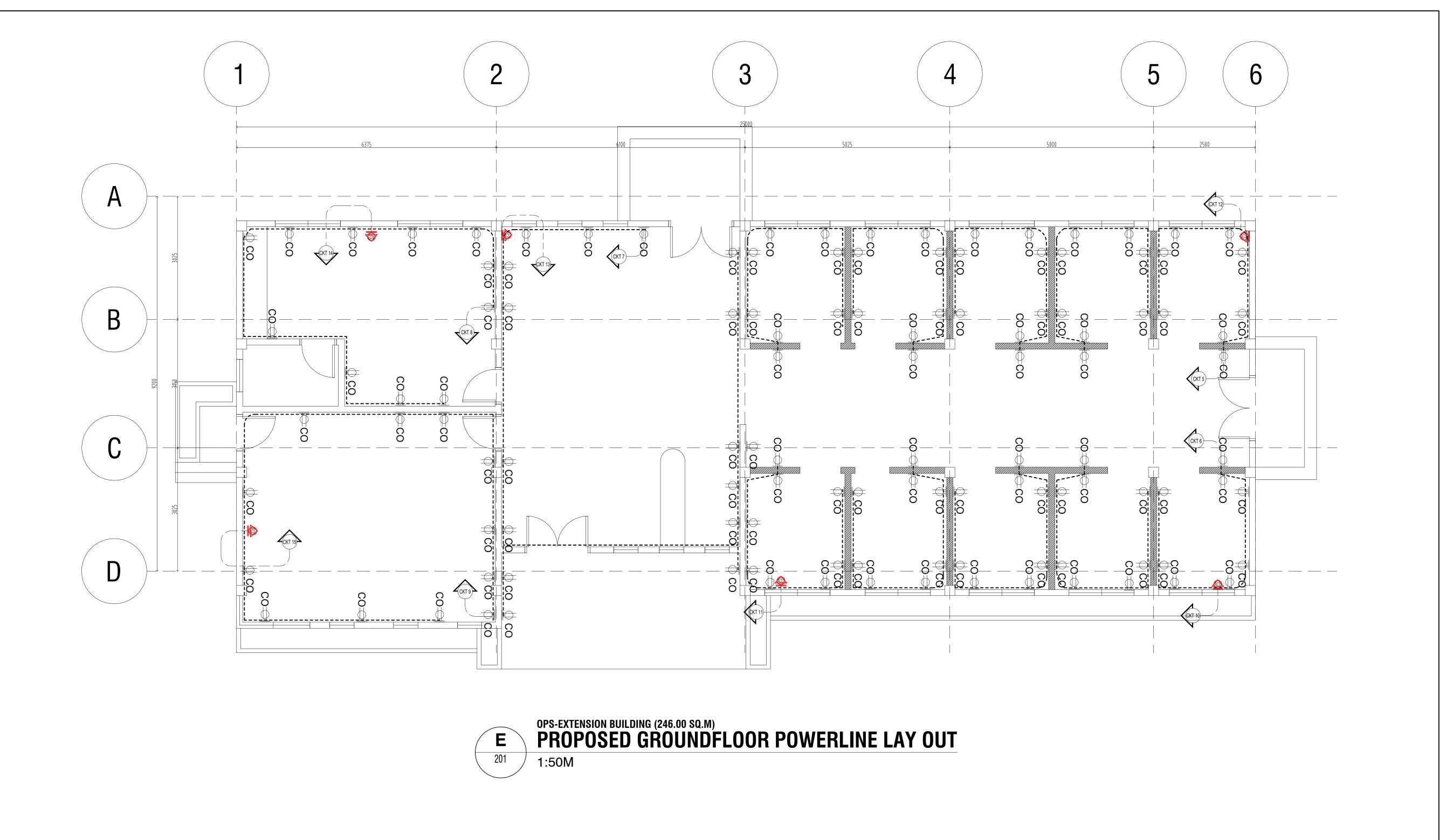


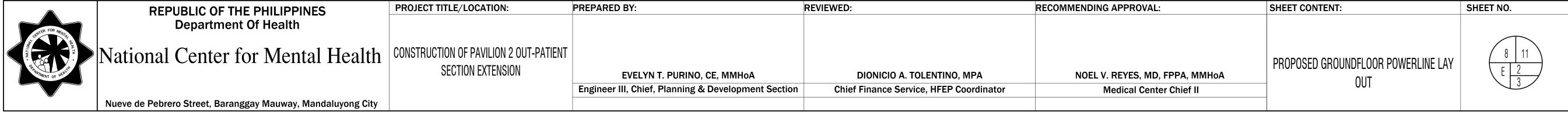
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LIGHTING OUTLET   15   20   230   1.4   15   50   3.5mm² THHN   20 mm² Ø PVC PIPE	LOAD TAB	LOAD TABULATION AND COMPUTATION									
AT AF   AF   AF   AF   AF		LOAD	OTV	W/ATTC	VOLTAGE	ANADEDEC			WIDE CIZE	CONDUIT	
2 LIGHTING OUTLET 9 20 230 0.8 15 50 3.5mm² THHN 20 mm² Ø PVC PIPE 3 LIGHTING OUTLET 12 20 230 1 15 50 3.5mm² THHN 20 mm² Ø PVC PIPE 4 LIGHTING OUTLET 28 20 230 2.4 15 50 3.5mm² THHN 20 mm² Ø PVC PIPE 5 CONVENIENCE OUTLET 38 180 230 29 40 50 3.5mm² THHN 20 mm² Ø PVC PIPE 6 CONVENIENCE OUTLET 40 180 230 31 40 50 3.5mm² THHN 20 mm² Ø PVC PIPE 7 CONVENIENCE OUTLET 21 180 230 16 30 50 3.5mm² THHN 20 mm² Ø PVC PIPE 8 CONVENIENCE OUTLET 12 180 230 9 30 50 3.5mm² THHN 20 mm² Ø PVC PIPE 9 CONVENIENCE OUTLET 11 180 230 9 30 50 3.5mm² THHN 20 mm² Ø PVC PIPE 10 AIRCONDITION UNIT 1 3 TONNER 230 48 80 100 22mm² THHN 38 mm² Ø PVC PIPE 11 AIRCONDITION UNIT 1 3 TONNER 230 48 80 100 22mm² THHN 38 mm² Ø PVC PIPE 12 AIRCONDITION UNIT 1 3 TONNER 230 48 80 100 22mm² THHN 38 mm² Ø PVC PIPE 13 AIRCONDITION UNIT 1 3 TONNER 230 48 80 100 22mm² THHN 38 mm² Ø PVC PIPE 14 AIRCONDITION UNIT 1 3 TONNER 230 48 80 100 22mm² THHN 38 mm² Ø PVC PIPE 14 AIRCONDITION UNIT 1 3 TONNER 230 48 80 100 22mm² THHN 38 mm² Ø PVC PIPE 15 AIRCONDITION UNIT 1 2.5 HP 230 48 80 100 22mm² THHN 38 mm² Ø PVC PIPE 16 SPARE 17 SPARE		LOAD	άi	WATTS	VOLTAGE	AIVIPENES	AT	AF	WINE SIZE	CONDOTT	
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4       LIGHTING OUTLET       28       20       230       2.4       15       50       3.5mm² THHN       20 mm² Ø PVC PIPE         5       CONVENIENCE OUTLET       38       180       230       29       40       50       3.5mm² THHN       20 mm² Ø PVC PIPE         6       CONVENIENCE OUTLET       40       180       230       31       40       50       3.5mm² THHN       20 mm² Ø PVC PIPE         7       CONVENIENCE OUTLET       21       180       230       16       30       50       3.5mm² THHN       20 mm² Ø PVC PIPE         8       CONVENIENCE OUTLET       12       180       230       9       30       50       3.5mm² THHN       20 mm² Ø PVC PIPE         9       CONVENIENCE OUTLET       11       180       230       8.6       30       50       3.5mm² THHN       20 mm² Ø PVC PIPE         10       AIRCONDITION UNIT       1       3 TONNER       230       48       80       100       22mm² THHN       38 mm² Ø PVC PIPE         11       AIRCONDITION UNIT       1       3 TONNER       230       48       80       100       22mm² THHN       38 mm² Ø PVC PIPE         13       AIRCONDITION UNIT       1       3 TONNER <t< td=""><td>2</td><td>LIGHTING OUTLET</td><td>9</td><td>20</td><td>230</td><td>0.8</td><td>15</td><td>50</td><td>3.5mm<sup>2</sup> THHN</td><td>20 mm² Ø PVC PIPE</td></t<>	2	LIGHTING OUTLET	9	20	230	0.8	15	50	3.5mm <sup>2</sup> THHN	20 mm² Ø PVC PIPE	
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16         SPARE           17         SPARE	14	AIRCONDITION UNIT	1	2.5 HP	230	48	80	100	22mm <sup>2</sup> THHN	38 mm² Ø PVC PIPE	
17 SPARE	15	AIRCONDITION UNIT	1	2.5 HP	230	48	80	100	22mm <sup>2</sup> THHN	38 mm² Ø PVC PIPE	
	16	SPARE									
18 SPARE	17	SPARE					·				
	18	SPARE		·					·		

TOTAL: 387.2 AMP

TOTAL LOAD = 89.06 KW

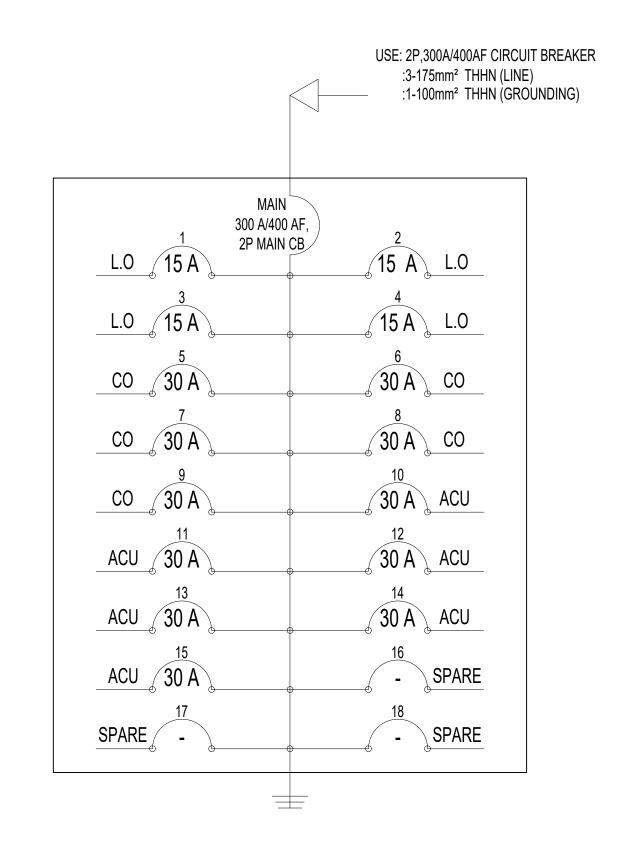
TOTAL LOAD AMPERE = 223.55A

CIRCUIT BREAKER= 300 AT / 400 AF 3 POLE

WIRE SIZE USE: 3-175mm<sup>2</sup> THHN/THWN RED, YELLOW, BLUE PORLINE 1-100mm<sup>2</sup> THHN/THWN

**GREEN FOR GROUND** 









REPUBLIC OF THE PHILIPPINES
Department Of Health

National Center for Mental Health | CONSTRUCTION OF PAVILION 2

SECTION EXTENSION

PROJECT TITLE/LOCATION:

2 OUT-PATIENT	
ON	

Engineer III, Chief, Planning & Development Section

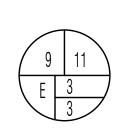
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EVELYN T. PURINO, CE, MMHoA	DIONICIO A. TOLENTINO, MPA	NOEL V. REYES, MD, FPPA, MMHoA

**Chief Finance Service, HFEP Coordinator** 

PANEL BOARD LOAD TABULATION & COMPUTATION PANEL BOARD SINGLE LINE DIAGRAM

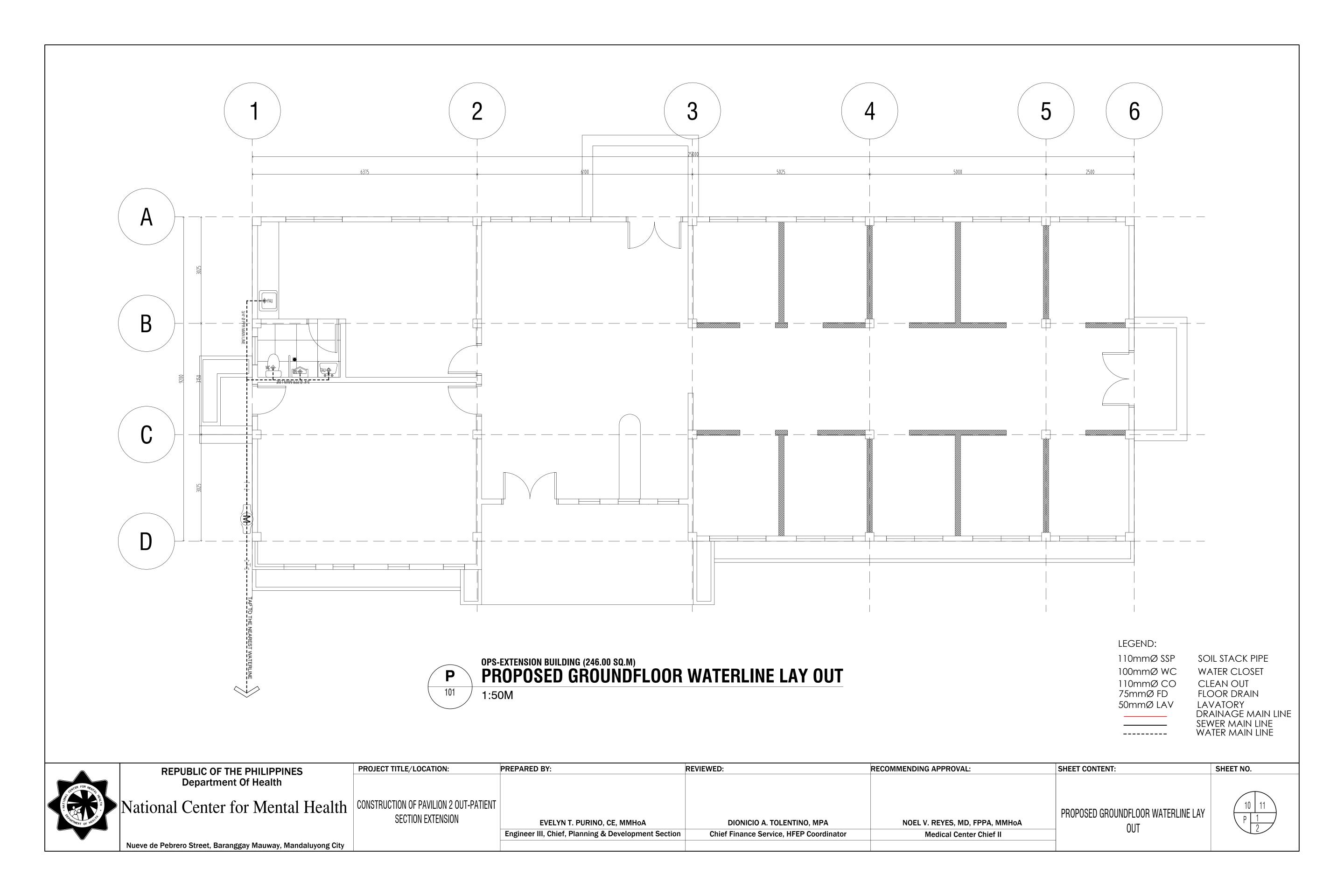
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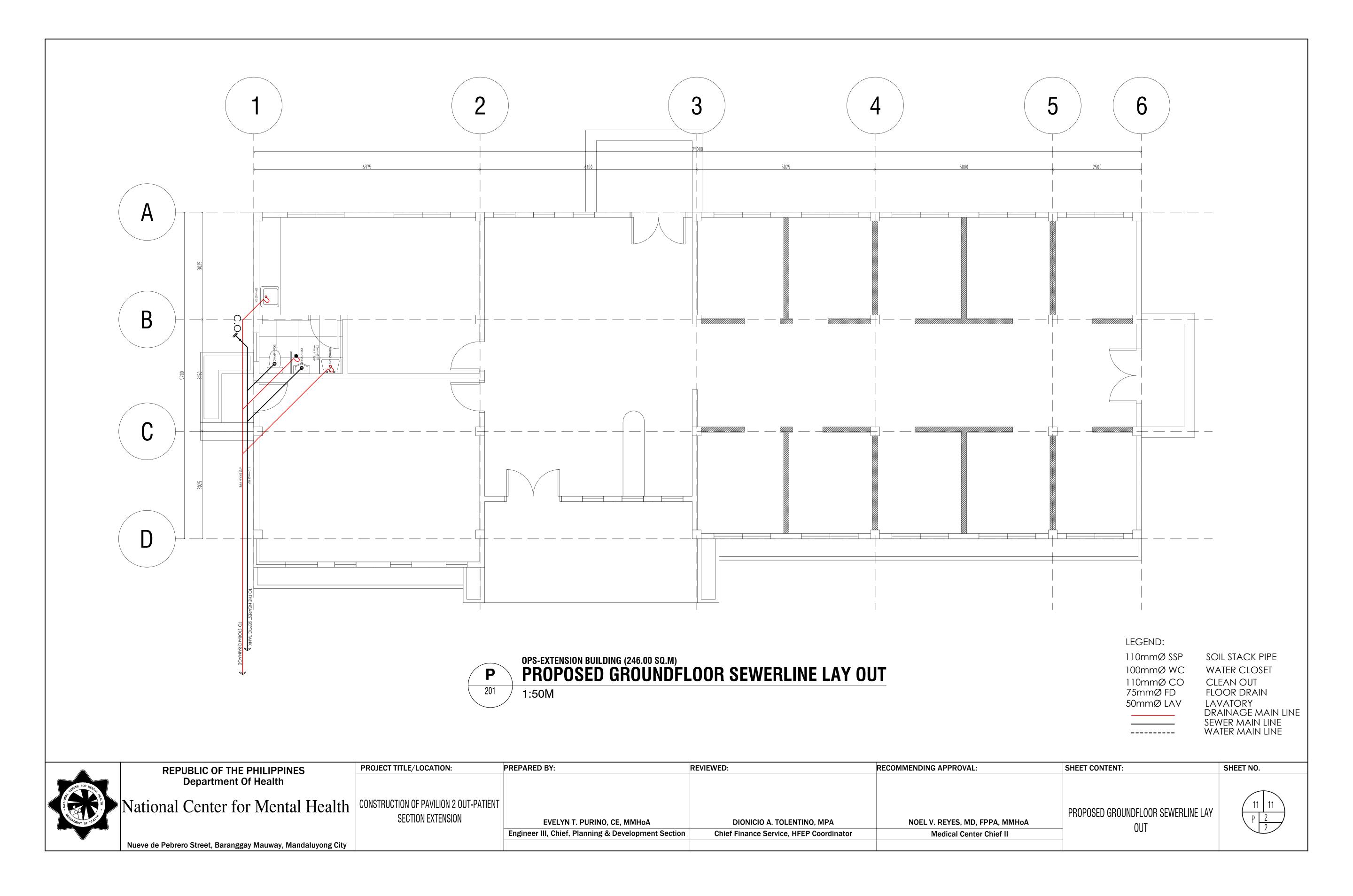
**Medical Center Chief II** 



SHEET NO.

Nueve de Pebrero Street, Baranggay Mauway, Mandaluyong City





# GENERAL STRUCTURAL NOTES

### GENERAL

- 1.1 GENERAL NOTES AND TYPICAL STRUCTURAL DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED
- 1.2 FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGH OUT FOR SIMILAR CONDITIONS. MODIFY TYPICAL DETAILS AS REQUIRED TO MEET SPECIAL CONDITIONS
- 1.3 THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SHALL NOTIFY THE NCMH PLANNING OFFICERS (ENGINEERS/ARCHITECTS) OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING TO THE WORK
- 1.4 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING FOR THE STRUCTURE FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION.
- 1.5 ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST APPLICABLE STANDARD OR SPECIFICATIONS. ALL WORKS SHALL CONFORM WITH THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADE.
- 1.6 ALL CONSTRUCTION AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION, EXAMINATION AND TESTING BY THE ENGINEER/ARCHITECT, THE ENGINEER/ARCHITECT SHALL HAVE THE RIGHT TO REJECT DEFECTIVE MATERIALS.
- 1.7 UNLESS SPECIFICALLY DETAILED ELSEWHERE, THE CONTRACTOR SHALL FOLLOW TYPICAL DETAILS AS SHOWN IN THESE DRAWINGS.
- 1.8 THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF WORK AMONG VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO ENSURE THE INSTALLATION OF ALL WORKS WITHIN AVAILABLE SPACE.
- 1.9 DO NOT SCALE DRAWINGS AND CALLED OUT DIMENSIONS, STANDARD CODE REQUIREMENTS SHALL GOVERN OVER UNSCALED DRAWINGS.
- 1.10 SPECIAL NOTES AND DIMENSIONS INDICATED ON THE STRUCTURAL DRAWING SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, ARCHITECTURAL DRAWINGS SHALL BE USED TO DEFINE DETAIL CONFIGURATION, ELEVATIONS, OPENING JOINTS, SLOPES, ETC.
- 1.11 MODIFICATION OF SECTION AND SIZES OF STRUCTURAL MEMBERS SHALL NOT BE ALLOWED UNLESS OTHERWISE APPROVED BY THE NCMH PLANNING ENGINEERS.
- 1.12 CONTRACTOR TO PROVIDE DYE PENETRANT/ULTRASONIC TESTING RESULT TO CLIENT, THESE TESTINGS SHALL BE CONDUCTED BY ACCREDITED AGENCY.
- 1.13 IN CASE OF STRUCTURAL MEMBERS SPECIFIED ARE NOT AVAILABLE, SUBMIT TO CLIENT ENGINEER AVAILABLE LIST OF MEMBERS FOR APPROVAL BEFORE PURCHASING

### DESIGN CRITERIA 1. LOADS

### 1.1 DEAD LOADS

UNIT WEIGHT OF CONCRETE	
UNIT WEIGHT OF SOIL	18KN/m <sup>2</sup>
ROOFIING (GI SHEET AND PURLINS) — —	
100mm CHB WALL	
150mm CHB WALL	
FI OOR FINISH	
PARTITION LOAD ——	
CEILING ———————————————	
INSULATION ——	
WATERPROOFING	
ELECTRICAL/MECHANICAL/PLUMBING — — —	
1.2 LIVE LOADS	
ROOF	1.00kPa
OFFICE & RESTROOM ——	
EXIT FACILITIES ————————————————————————————————————	
EVACUATION, BASIC FLOOR AREA ———————	
1.3 WIND LOAD	
1.4 SEISMIC LOADS	
SEISMIC ZONE FACTOR, Z	
NUMERICAL COEFFICIENT, Rwx & Rwz	8.50
IMPORTANCE FACTOR, I —	1.50
SITE COEFFICIENT, S(Sd) ———	4.00
Na	

### DESIGN CODE AND REFERENCE

THE FOLLOWING REFERENCES SHALL GOVERN THE DESIGN FABRICATION & CONSTRUCTION OF THE PROJECT

HEIGHT IN METERS, h —-----hn

AMERICAN CONCRETE INSTITUTE ACI 318-95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE

NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP, 2015) ASSOCIATION OF STRUCTURAL ENGINEERS OF THE PHILIPPINES (ASEP) STEEL HANDBOOK FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) P-320/P-361

STRUCTURAL DESIGN DATA AND SPECIFICATIONS A.B. CARILLO, 6th EDITION.

### MATERIALS

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

STRUCTUAL ELEMENTS	CLASS	28-DAY CYLINDER STRENGTH MPa(psi)	MAX SLUMP MM(in)
SLAB, STAIR, CURBS AND SLAB ON GRADE	"A"	20.7 (3000PSI)	75 (3")
CAST-IN-PLACE GIRDERS, BEAMS, FOOTINGS AND COLUMN	"AA"	27.6 (4000PSI)	100 (4")
OTHER STRUCTURAL ELEMENTS	"A"	20.7 (3000PSI)	100 (4")
FOR NON STRUCTURAL MEMBERS		17.2 (2500PSI)	100 (4")
LEAN CONCRETE	-	10.0 (1450 PSI)	75 (3")

ITEMS	AGGREGATE SIZE
FOOTINGS	25MM (1")
SLAB, BEAMS, COLUMNS, OTHERS.	19MM ( <sup>3</sup> / <sub>4</sub> ")
CURBS AND MASS CONCRETE/SLAB ON GRADE	25MM (1")
1.1 INFORM NOME DEADNING OFFICERS OF OTHER MISSELLAND	TOLIC COMODETE CIDILOTUDAL

1.1 INFORM NCMH PLANNING OFFICERS OF OTHER MISCELLANEOUS CONCRETE STRUCTURAL ELEMENTS NOT SHOWN ABOVE TO DETERMINE THEIR RESPECTIVE COMPRESSIVE STRENGTH.

### 2. REINFORCING STEEL

- a. REINFORCING STEEL SHALL CONFORM TO LATEST EDITIONS OF ASTM A615 GRADE 60. DEFORMED, FOR 16MM DIA.BARS AND LARGER WITH MINIMUM YIELD STRENGTH fy = 414MPa (60000PSI) AND ASTM A615 GRADE 40, DEFORMED, FOR 12MM DIA. BARS AND SMALLER WITH MINIMUM YIELD STRENGTH FY = 276MPa (40000 PSI)
- b. ALL REINFORCING BARS SHALL BE DEFORMED BARS UNLESS OTHERWISE SPECIFIED IN THE b.g. DRAWINGS.
- c. ALL REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS LIKELY TO b.h. IMPAIR BOND.
- d. ALL REINFORCING BARS SHALL ACCURATELY AND SECURELY PLACED BEFORE POURING OF CONCRETE OR APPLYING OF MORTAR OR GROUT

### 3. STRUCTURAL STEEL BOLTS/WELDS

MATERIAL	SPECIFICATIONS
STEEL PLATES AND ROLLED SHAPES	ASTM A36
BOLTS	ASTM A325
WELDS	AWS D1.1 - 183, E70XX SERIES

### CONSTRUCTION

### SETTING OUT

THE SETTING OUT AND ELEVATIONS OF THE DIFFERENT COMPONENTS OF THE STRUCTURE SHALL BE APPROVED BY THE NCMH PLANNING OFFICERS PRIOR TO THE START OF ANY CONSTRUCTION WORK.

### 2. REINFORCED CONCRETE

PROJECT TITLE/LOCATION:

### a. CONCRETE MIX AND PLACING

- DESIGN OF CONCRETE MIX SHALL MEET THE DESIGN CONCRETE STRENGTH GIVEN UNDER ITEM 1 OF MATERIALS
- CONCRETE SHALL DEPOSITED, VIBRATED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS
- FOR CONCRETE DEPOSITED AGAINST THE GROUND, LEAN CONCRETE WITH A MINIMUM THICKNESS OF 50mm SHALL BE LAID FIRST BEFORE INSTALLING THE REINFORCEMENT. THE LEAN CONCRETE SHALL NOT BE CONSIDERED IN MEASURING THE STRUCTURAL DEPTH OF CONCRETE SECTION.
- THE CONTRACTOR SHALL SUBMIT TO THE NCMH PLANNING OFFICERS FOR APPROVAL THE POURING SEQUENCES FOR ALL CONCRETING WORKS.
- THE CONTRACTOR SHALL NOTIFY THE NCMH PLANNING OFFICERS 48 HOURS PRIOR TO THE POURING OF ANY STRUCTURAL CONCRETE, SO AN INSPECTION CAN BE MADE ON ALL FORMS AND REINFORCING.
- PREPARE AND SUBMIT CONCRETE MIX DESIGN INCLUDING AGGREGATES GRADATION, WATER AND CEMENT CONTENTS AND CYLINDER STRENGTH TEST RESULT FOR REVIEW. CONCRETE MIX DESIGN SHALL BE TESTED AT 7, 14 AND 28 DAYS CURING PERIOD. THE TEST SHALL FOLLOW THE REQUIREMENTS OF ASTM.
- USE OF ADMIXTURES IS PERMITTED TO PRODUCE PROPER SLUMP AND WORKABILITY BUT SUBJECT TO THE NCMH PLANNING OFFICER'S APPROVAL ADDITION OF WATER TO CONCRETE AT JOB SITE IS NOT ALLOWED

.h	FOR CONCRETE	SLAB,	ALL R	EINF	ORECEMENT	S SHALL	BE (	0.02m	CLEAR	MINIMUM	FROM	TOP .	AND BO	O MOTTO	F SLAB,
	TEMPERATURE (	BARS S	SHALL	BE (	GENERALLY	PLACED	NEAF	R THE	FACE IN	N TENSION	N AND	SHAL	L NOT	BE LESS	THAN
	∩ ∩∩1 9D+														

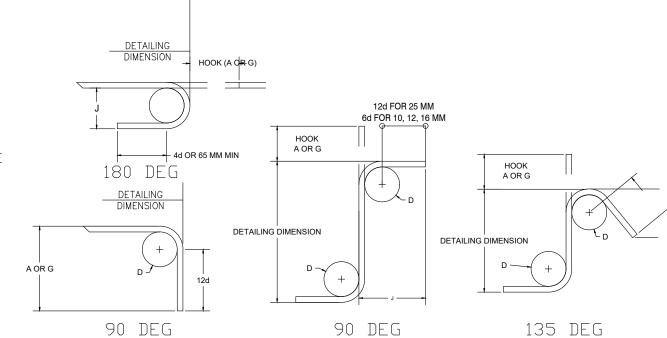
FOR TWO OR MORE LAYERS OF REINFORCING BARS USE SEPARATORS SPACED @ 0.90m O.C. AND IN NO CASE SHALL BE LESS THAN 2 SEPARATORS, CLEAR DISTANCE BETWEEN LAYERS SHOULD NOT BE LESS THAN 25mm OR BAR DIAMETER. FOR CAMBER:

COMPONENT	MINIMUM CAMBER
RC BEAMS	6mm FOR EVERY 4.50m. SPAN
CANTILEVER RC BEAMS	18mm FOR EVERY 3.00m SPAN
RC SLABS	3mm FOR EVERY 3.00M SHORTER SPAN

- COLUMN TIES SHALL BE PROTECTED BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH 0.05m THICK AND NOT LESS THAN ½ TIMES THE MAXIMUM SIZE OF COURSE AGGREGATES.
- LOCATION OF ALL CONSTRUCTION OR COLD JOINTS MUST BE APPROVED BY THE NCMH PLANNING OFFICERS.
- PIPES 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 BE IN ACCORDANCE WITH THE RECOMMENDED ACI PRACTICE.
- ALL INSERTS, ANCHOR BOLTS, ETC. TO BE EMBEDDED IN THE CONCRETE SHALL BE HOT DIP GALVANIZED UNLESS
- IN GENERAL, THE LATEST EDITION OF THE MANUAL OF THE STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES, ACI 315-99 SHALL BE ADHERED TO UNLESS SHOWN OTHERWISE.

### b. BAR BENDING, SPLICING AND PLACING

- THE CONTRACTOR SHALL SUBMIT TO THE NCMH PLANNING OFFICERS FOR APPROVAL ALL SHOP DRAWINGS INDICATING THE BENDING, CUTTING, SPLICING AND INSTALLATION OF ALL REINFORCING BARS.
- BARS SHALL NOT BE BENT COLD, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT UNLESS PERMITTED BY THE NCMH PLANNING OFFICERS.
- BAR SPLICING NOT INDICATED ON DRAWINGS SHALL BE SUBJECTED TO THE APPROVAL OF NCMH PLANNING OFFICERS.
- WELDED SPLICES. IF APPROVED BY THE NCMH PLANNING OFFICERS. SHALL DEVELOPED IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BARS
- LAPPED SPLICES SHALL BE STAGGERED WHERE POSSIBLE
- IN GENERAL, BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS, SPLICES SHALL BE SECURELY WIRED TOGETHER STAGGER SPLICES AT LEAST 600mm WHENEVER POSSIBLE IN BEAMS AND SLAB, SPLICE TOP BARS AT MIDSPAN AND BOTTOM BARS NEAR SUPPORT. SPLICE REINFORCEMENT SHALL BE MADE ONLY AS REQUIRED OR PERMITTED ON DESIGN DRAWINGS OR AS ALLOWED BY THE ACI CODE OR AS AUTHORIZED BY THE NCMH PLANNING OFFICERS.
- BARS NOTED AS CONTINUOUS SHALL HAVE MINIMUM SPLICE LENGTH OF 42 BAR DIAMETER BUT NOT LESS THAN 60mm UNLESS OTHERWISE NOTED.
- REINFORCEMENTS SHALL BE SPLICED ONLY AS INDICATED ON THE DRAWINGS. ANY WELDING TO BE PERFORMED MUST HAVE PRIOR WRITTEN APPROVAL OF THE NCMH PLANNING OFFICERS.
- WELDING AND REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWING. W ELDING OF REINFORCING STEEL SHALL CONFORM TO AWS DI.4-79 \*AWS STRUCTURAL WELDING CODE\* 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 MATERIALPROPERTIES OF THE REINFORCING STEEL CONFORM TO AWS
- D1.4-79. ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
- TYPICAL HOOPS & SUPPLEMENTARY DETAILS



### STANDARD HOOKS STIRRUPS AND TIF-HOOKS

	STANDA	RD HOOK	S	STIRRUP AND TIE-HOOKS					
BAR SIZE	D	180	DEG	90 DEG	90 DEG BAR SIZE		90 DEG	135 I	DEG
DAIT SIZE	(MM)	A OR G	J	A OR G	DAITOIZE	(MM)	A OR G	A OR G	Н
10Ø	60	125	60	150	10Ø	40	105	105	65
12Ø	80	150	105	200	12Ø	50	115	115	80
16Ø	95	175	130	250					
20Ø	125	225	175	350					
25Ø	155	275	205	425					
32Ø	275	425	335	550					

### DEVELOPMENT LENGTH, (Ld), IN TENSION FOR RC BEAMS AND GIRDERS (PRISMATIC OR NON-PRISMATIC) fc'=21MPa (3000psi) fc'=28MPa (4000psi) fc'=34.5MPa(5000psi) TOP BARS | BOT BARS | TOP BARS | BOT BARS | TOP BARS | BOT BARS 730 560 630 480 560 20Ø 1090 840 940 730 840 28Ø 2340 1800 1980 1520 1765 32Ø 2990 2300 2600 1985 2300 36Ø 3770 2900 3280 2520 2930

LENGTH OF LAP COMPRESSION SPLICES (mm)				
BAR SIZE (mm)	fc'=21MPa (3000psi)	fc'=28MPa (4000psi)	fc'=34.5MPa (5000psi)	
16Ø	420	390	360	
20Ø	540	510	450	
25Ø	720	600	540	
28Ø	810	720	690	
32Ø	900	780	720	
36Ø	990	900	810	

### TENSION SPLICE CLASSIFICATION:

### CLASS B = 1.33Ld

### 3. STRUCTURAL STEEL

- A. ALL STRUCTURAL MILL SECTIONS AND BUILT-UP PLATE SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AISC LATEST "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- B. STEEL PLATES, SHAPES, BARS AND METAL FABRICATORS ARE ASTM A-36 UNLESS NOTED OTHERWISE.
- UNFINISHED BOLTS SHALL CONFORM TO ASTM A-307 GRADE A. HIGH STRENGTH BOLL SHALL CONFORM TO ASTM A325 OR ASTM A490 AS NOTED. USE 16mm DIAMTER FOR A325 BOLTS FOR ALL BEAM TO BEAM, BEAM TO GIRDER/COLUMN, GIRDER TO COLUMN BOLTED CONNECTION. USE TWO BOLTS MIN, UNLESS NOTED OTHERWISE.
- D. ALL HIGH STRENGTH BOLTS A325 OR A 490 SHALL BE SLIP CRITICAL (A325—SC OR A490—SC CLASS A) UNLESS NOTED OTHERWISE. THE INSTALLATION OF HIGH STRENGTH BOLTS SHALL CONFORM TO THE LATEST EDITION OF AIS SPECIFICATION FOR STRUCTURAL JOINT USING ASTM A325 OR A490 BOLTS WHERE NON SLIP CRITICAL BOLTS ARE SPECIFIED. THESE BOLTS SHALL ONLY BE TIGHTENED TO A SNUG TIGHT CONDITION
- BOLT HOLE IN STEEL SHALL BE 1.60mm LARGER IN DIAMETER THAT DIAMETER OF BOLT USED FOR SLIP CRITICAL CONNECTIONS CONSTRUCTION OR SHORT SLOTTED HOLES FOR NON SLIP CRITICAL CONNECTION AS NOTED UNLESS
- ELECTRODES FOR WELDING: ASTM 233 E-70XX SERIES; COMPLY WITH AWS D1.1 CODE REQUIREMENTS.
- G. FLAME CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST "STANDARD CODE FOR WELDING IN BUILDING OF THE AMERICAN WELDING SOCIETY".
- H. ALL BUTT WELDS SHALL BE FULL PENETRATION AND SHALL BE PROPERLY BACK-CHIPPED OR GOUGED. BACK UP PLATES SHALL BE PROVIDED AS REQUIRED.
- I. GRIND ALL EXPOSED WELDS SMOOTH, EXCEPT FILLET WELDS.
- J. WELDS LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. FILLET WELD SIZES ARE THE WIDTH OF THE HORIZONTAL OR VERTICAL LEG. WHERE LENGTH OF WELD IS NOT SHOWN IT SHALL BE FULL LENGTH OF JOINT. WELDING ELECTRODES TO BE E70XX UNLESS NOTED OTHERWISE.
- K. ALL LEVEL WELDS ARE FULL PENETRATION, UNLESS NOTED OTHERWISE. SIZE ALL FILLET WELDS PER AWS WHERE NOT SHOWN WITH WELD SIZE, PROVIDE MINIMUM WELD SIZE TO DEVELOP TENSION OR SHEAR CAPACITY OF SMALLER MEMBER OF THE PIECES BEING CONNECTED (4.76mm MIN.)
- L. THE CONTRACTOR SHALL PROVIDE MINIMUM 10mm CONCRETE COVER AROUND ALL STEEL MEMBERS/ COMPONENTS (WF, TS, PLATES, BOLTS, ETC.) ADJACENT TO SOIL.
- WELDED CONNECTIONS BETWEEN MEMBERS OF MOMENT FRAMES SHALL BE TESTED BY NON DESTRUCTIVE METHOD. APPLY TT-P-645 SHOP PAINT FOR ALL FABRICATIONS.
- SHOP PAINTING FOR STRUCTURAL STEEL SHALL BE RUST INHIBITIVE PRIMER WITH MINIMUM D.F.T. 2.0 MILS.
- TOUCH-UP PAINTING: APPLY PAINT TO EXPOSED AREASIN MANNER SATISFACTORY TO THE ENGINEER WITH SAME MATERIAL AS SHOP PAINT.
- Q. COMPLY WITH AISC CODE AND SPECIFICATIONS FOR BEARING, ADEQUACY OF TEMPORARY CONNECTIONS AND ALIGNMENT
- R. CONTRACTOR SHALL FURNISH COMPLETE ERECTION DRAWINGS FOR THE PROPER IDENTIFICATION AND ASSEMBLY OF ALL BUILDING COMPONENTS. THESE DRAWINGS WILL SHOW ANCHOR BOLTS SETTING, PRIMARY SECONDARY AND ROOF FRAMING AND NECESSARY INSTALLATION DETAILS. SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION.
- THE STEEL SUBCONTRACTORS SHALL COMPLY WITH THE LATEST AISC CODE OF STANDARD PRACTICE.
- THE STEEL SUBCONTRACTORS SHALL DETERMINE THE ERECTION SEQUENCE FOR ALL STEELWORKS, THE STEEL SUBCONTRACTORS SHALL ALSO COORDINATE WITH OTHER TRADES AND SITE CONDITIONS IN DETERMINING THE PROPER STEEL ERECTION SEQUENCE SO AS NOT TO DAMAGE WORK PERFORMED BY OTHER TRADES AND/OR PREVIOUSLY ERECTED STEEL MEMBERS.
- U. WORK POINTS.MEMBER LENGTH AND/OR ERECTION SEQUENCE SHALL BE ADJUSTED BY THE STEEL SUBCONTRACTOR TO MINIMIZE THE EFFECT OF THE TEMPERATURE CHANGES AND DIFFERENTIAL TEMPERATURE EFFECTS. TEMPERATURE EFFECTS SUCH AS EXPOSED TO STRONG SUN ON ONE SIDE OF THE BUILDING. MEETING AISC ACCEPTABLE MILL STANDARD AND ERECTION TOLERANCES.
- V. ALL STRUCTURAL STEEL SHALL CONFROM TO ASTM A-36 FY=248MPa (36,000 PSI)
- W. FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER AND THE OWNER PRIOR TO

### 4. FOOTINGS

- A. FOOTING SHALL REST ON 50mm THK. GRAVEL BASE COURSE COMPACTED TO 95% MAXIMUM DENSITY. B. THE ASSUMED SOIL BEARING CAPCITY IS 100KPA 1.5m FROM NATURAL GRADE LINE TO BOTTOM OF FOOTING.
- C. BACKFILL SHALL BE PLACED IN 150mm LAYERS AND EACH LAYER SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY. SHALL BE FREE FROM DETRIMENTAL AMOUNTS OF ORGANIC MATERIAL & NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL W/ A MAXIMUM DIMENSION GREATER THAN 300mm BE BURIED OR PLACED IN FILLS.
- D. ALL EXCAVATIONS AND BACKFILLING AND COMPACTIONS SHALL BE INSPECTED AND APPROVED BY NCMH PLANNING
- E. THE CONTRACTOR SHALL VERIFY THE ACTUAL SOIL CONDITIONS BEFORE CONSTRUCTION OF AFTER FOOTING EXCAVATION IS DONE TO CHECK THE GEOTECHNICAL REPORTS RECOMMENDED BEARING CAPACITY, IF ANY.

**SHEET CONTENT:** 

SENERAL STRUCTURAL NOTES

- F. NO FOOTING SHALL REST ON FILL.
- G. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE WALLS HAVE ATTAINED FULL DESIGN STRENGTH. THE CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTAINING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH
- H. CONTRACTOR SHALL PROVIDE DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR



### REPUBLIC OF THE PHILIPPINES **Department Of Health**

National Center for Mental Health

Nueve de Pebrero Street, Baranggay Mauway,	<b>Mandaluyong Cit</b>

COMPLETION OF PAVILION 2 OUT -PATIENT SECTION EXTENSION

**EVELYN T. PURINO, CE, MMHoA** 

**REVIEWED:** 

/N.T.S.

SAO, Chief, Planning and Development Section

S GENERAL STRUCTURAL NOTES

**RECOMMENDING APPROVAL:** 

DIONICIO A. TOLENTINO, MPA **Chief Finance Service, HFEP Coordinator** 

**APPROVED:** 

NOEL V. REYES, MD, FPPA, MMHoA **Medical Center Chief II** 

SHEET NO.

