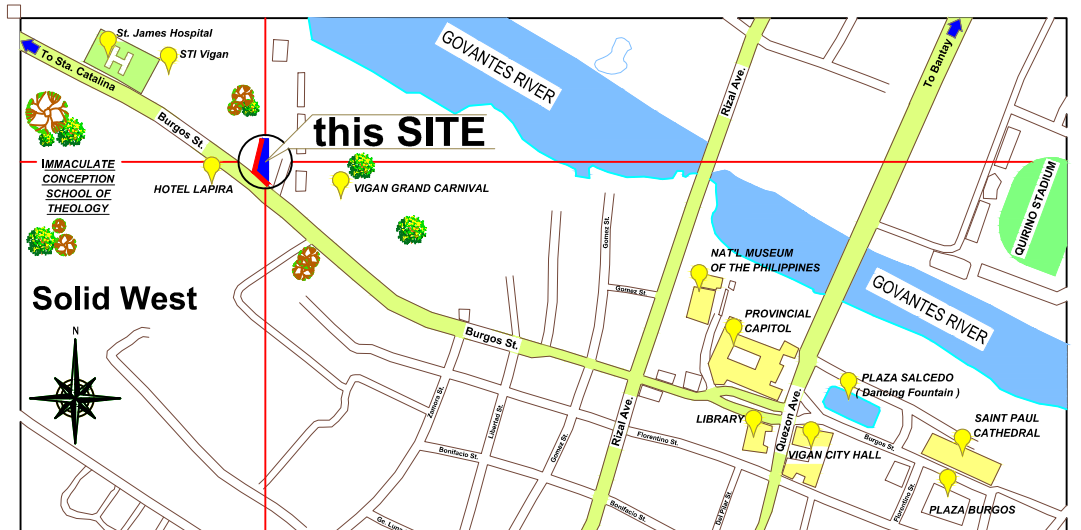
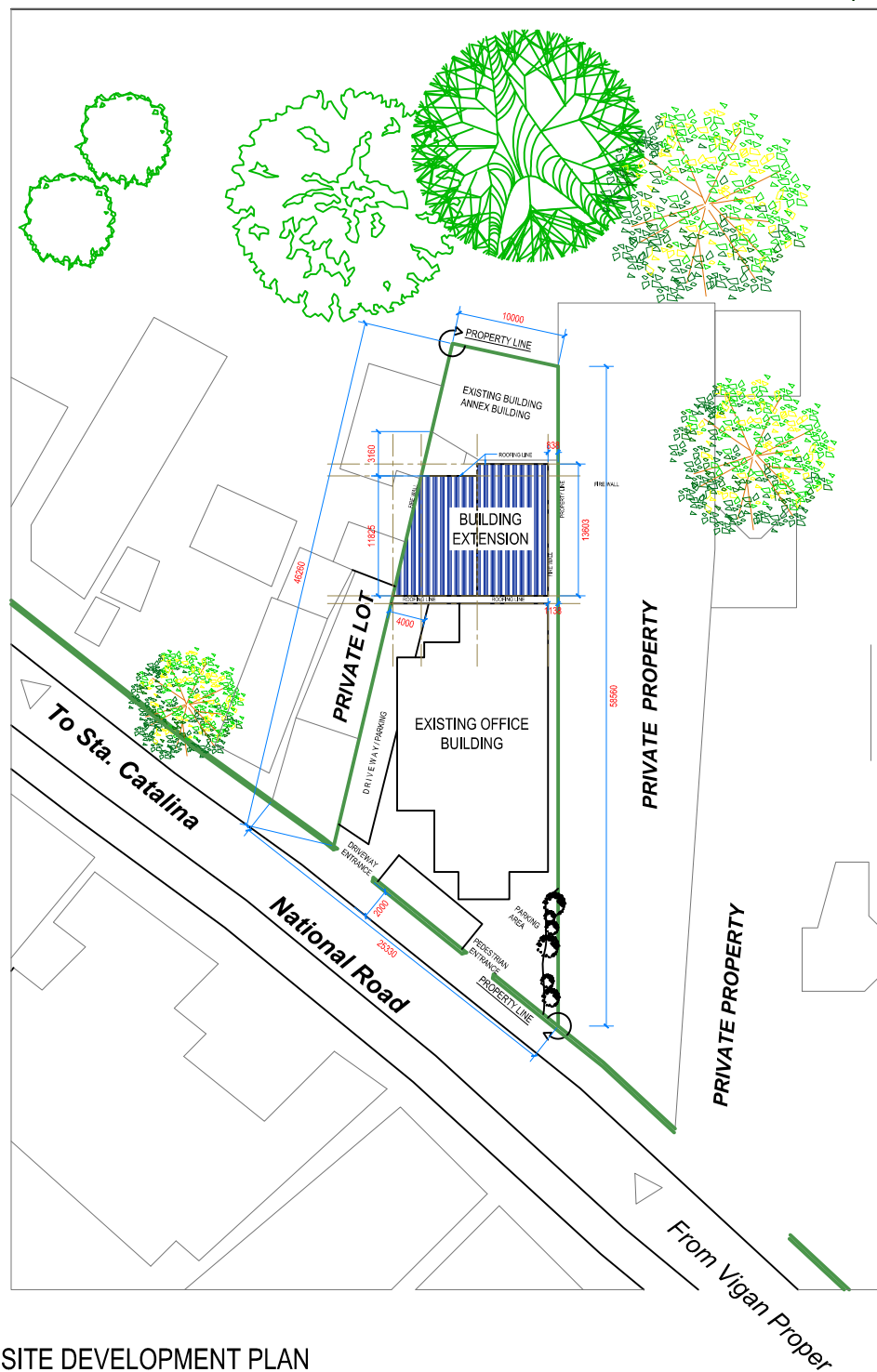




EXTERIOR PERSPECTIVE



VICINITY MAP
NOT TO SCALE



SITE DEVELOPMENT PLAN
NOT TO SCALE

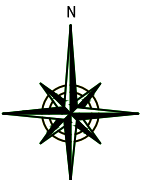


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**BBB JR DESIGN,
BUILD AND SUPPLY**

Arch. Bonifacio B. Barmachea Jr. uap ARCHITECT		
PRC No.: 16885	VALIDITY 07 / 25 / 2021	PTR No.: 7643460 ISSUED ON 01 / 03 / 2019
TIN : 923-578-168	ISSUED AT : Vigan City	
IAPOA NO.: 10907-259071-010170	VALIDITY: 06 / 30 / 2020	

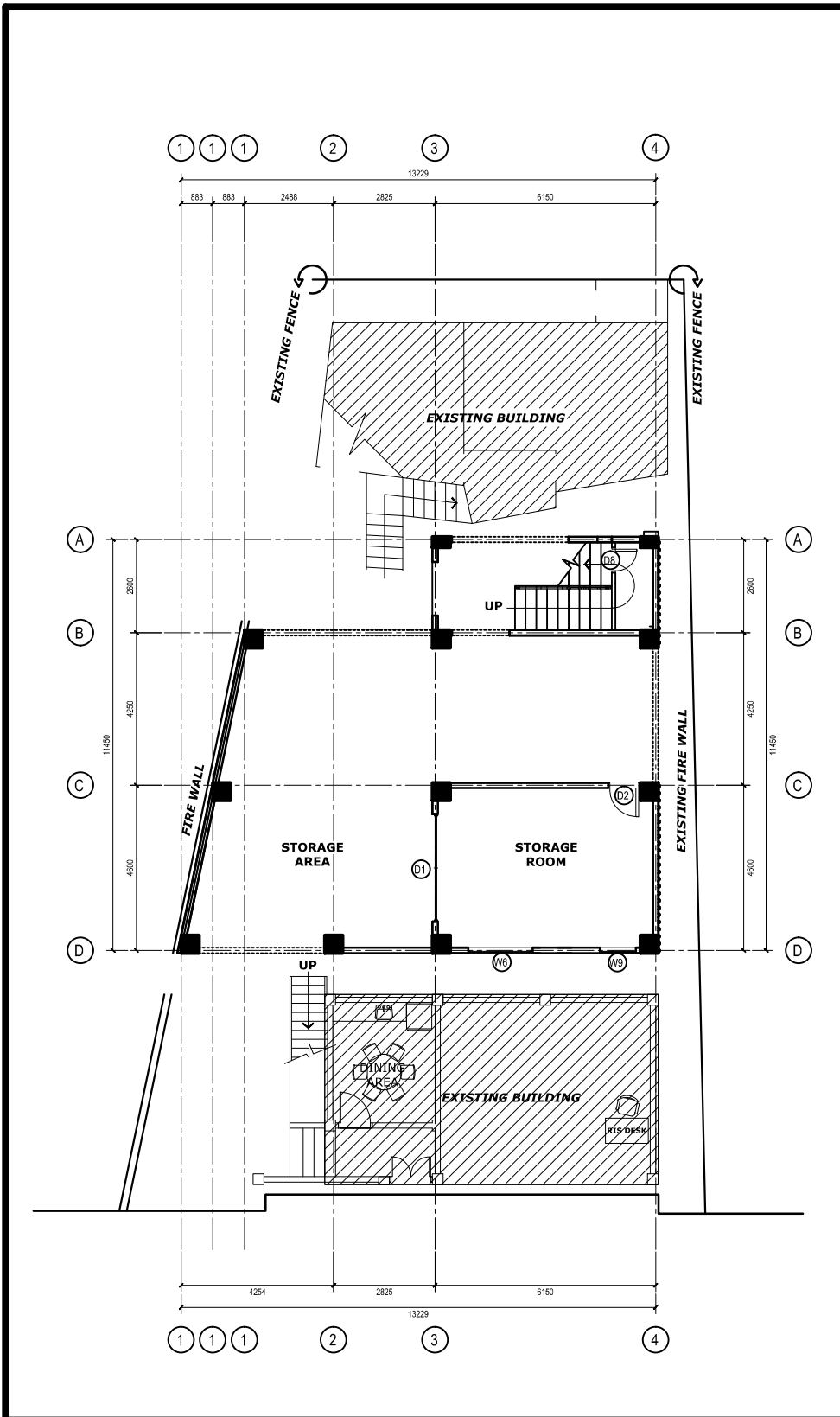
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PROJECT TITLE : METRO VIGAN WATER DISTRICT OFFICE EXTENSION
OWNER : METRO VIGAN WATER DISTRICT
LOCATION : SOLID WEST, VIGAN CITY, ILOCOS SUR

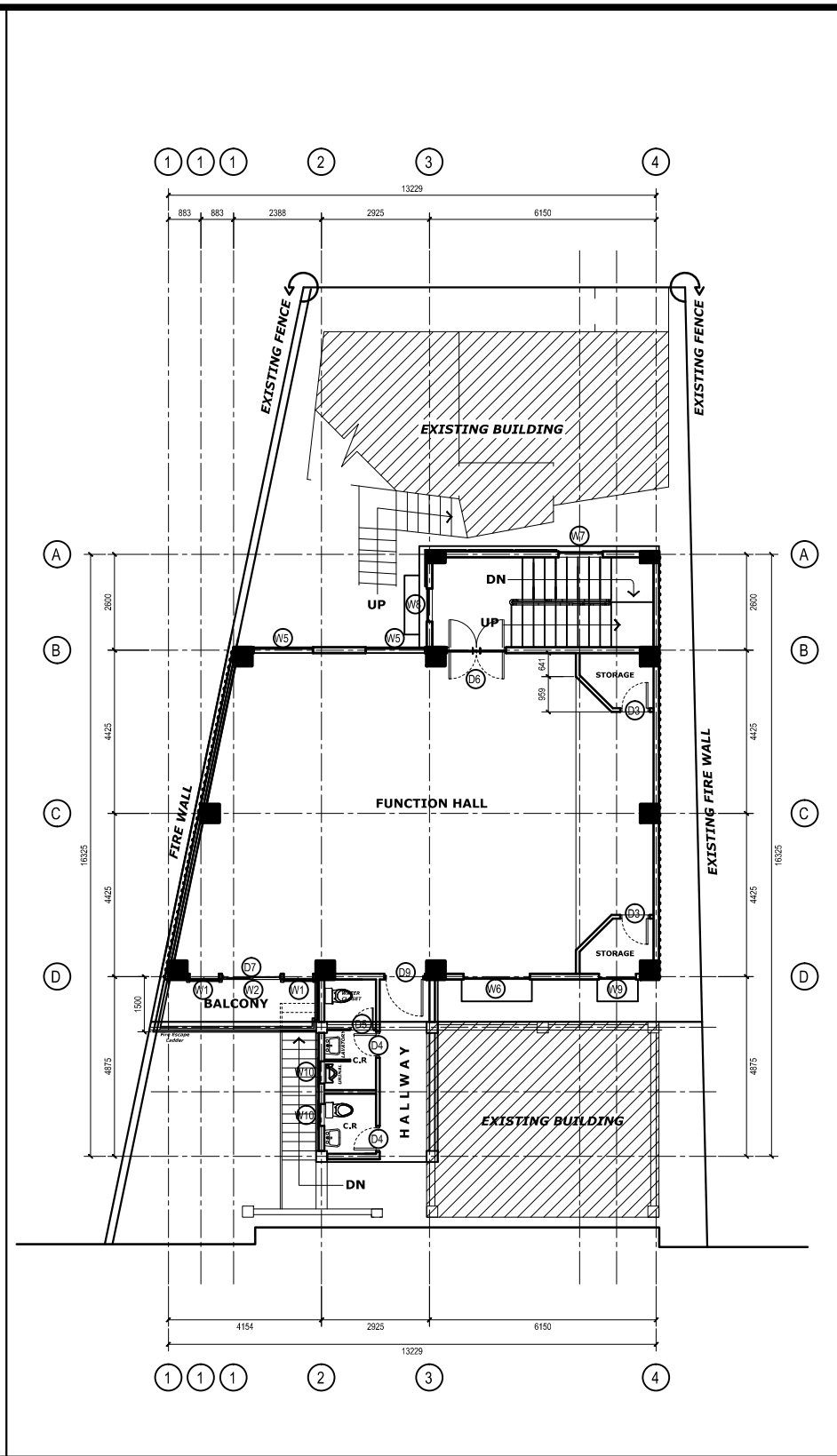
DRAWN/C.A.D BY Arthur C. Uganiza Jr.
CHECKED BY

SHEET CONTENT AS SHOWN

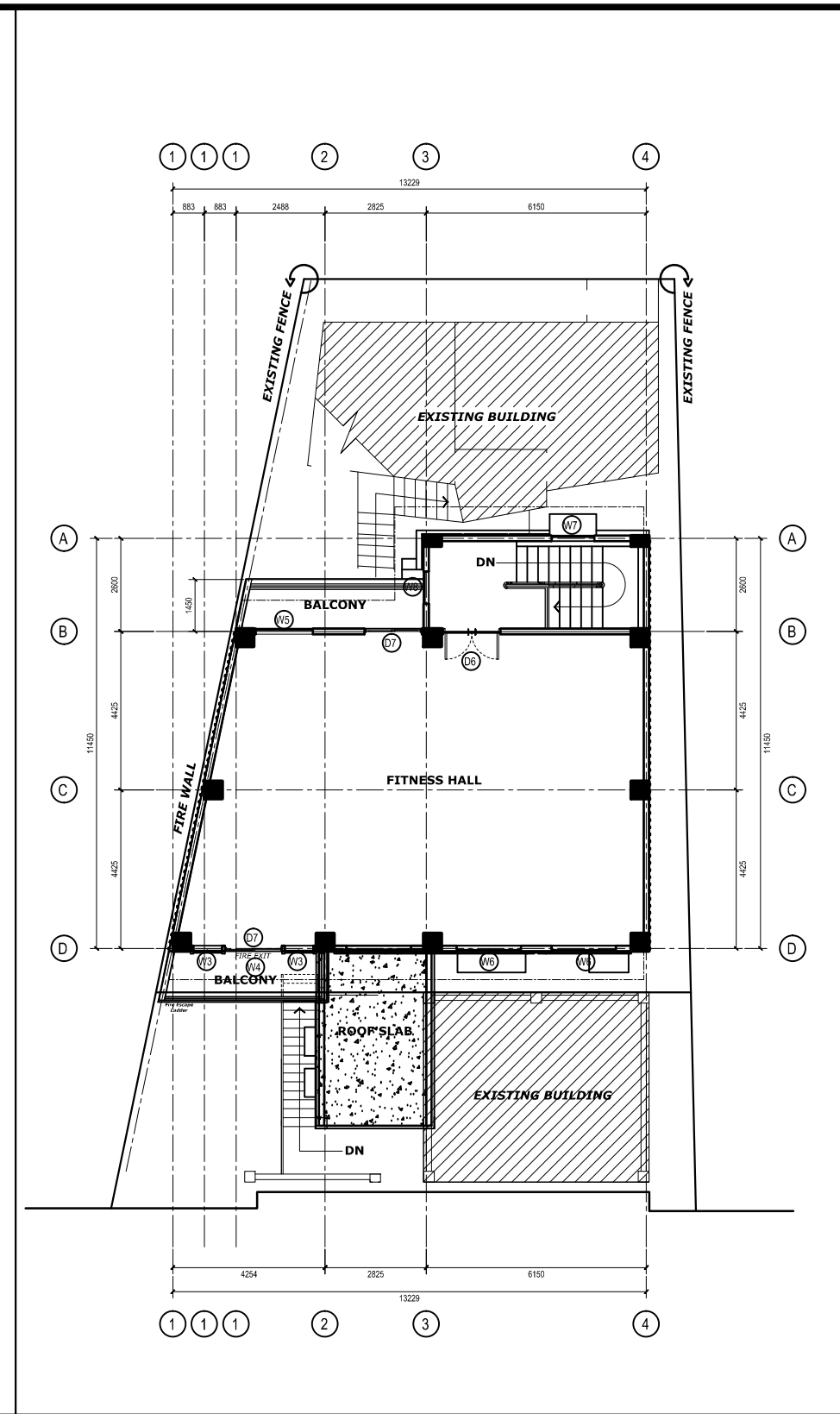
DRAWING NO. A-1
SHEET NO. 01/20



Ground Floor Plan
Scale: 1:1000 mm



Second Floor Plan
Scale: 1:1000 mm



Third Floor Plan
Scale: 1:1000 mm



**BBB JR DESIGN,
BUILD AND SUPPLY**

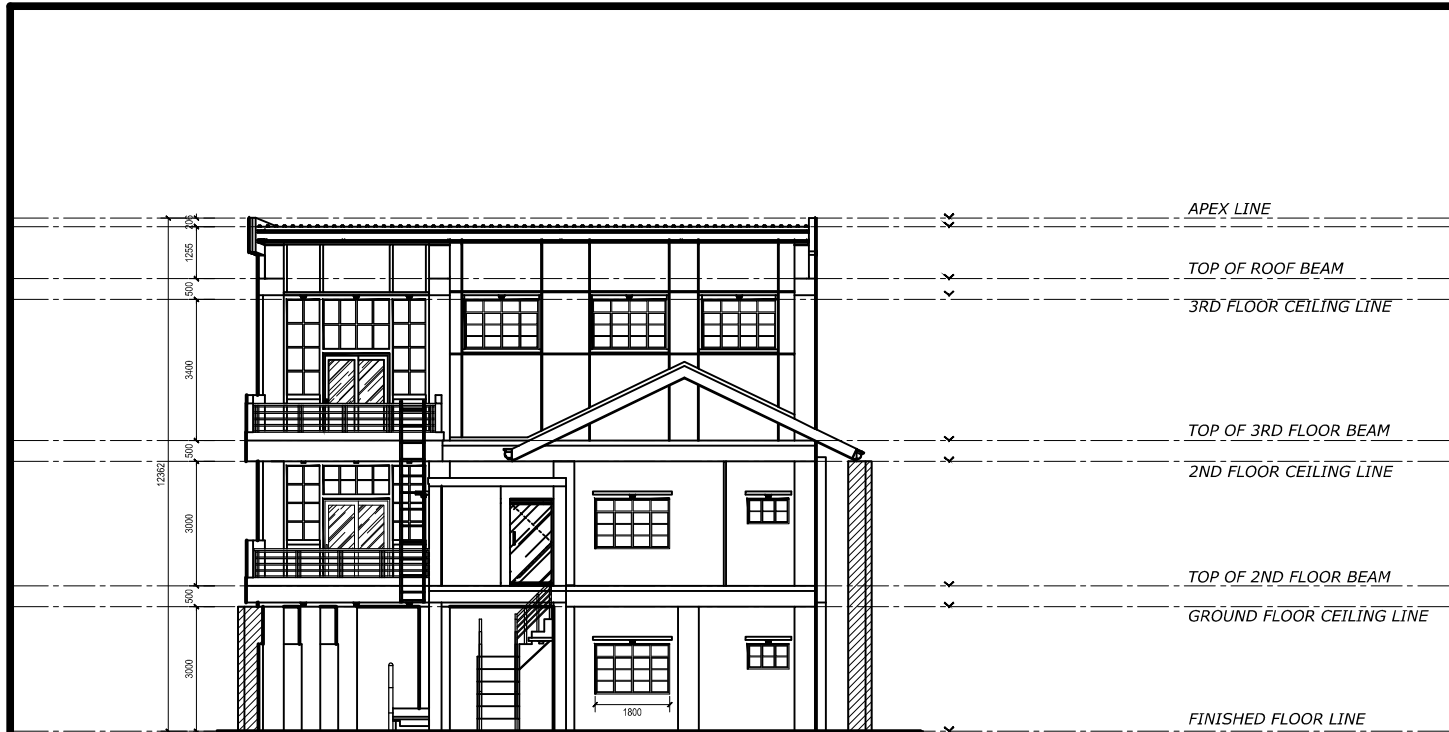
Arch. Bonifacio B. Barmachea Jr. uap ARCHITECT		
PRC No.: 16885	VALIDITY 07 / 25 / 2021	PTR No.: 7643460 ISSUED ON 01 / 03 / 2019
TIN : 923-578-168	ISSUED AT : Vigan City	
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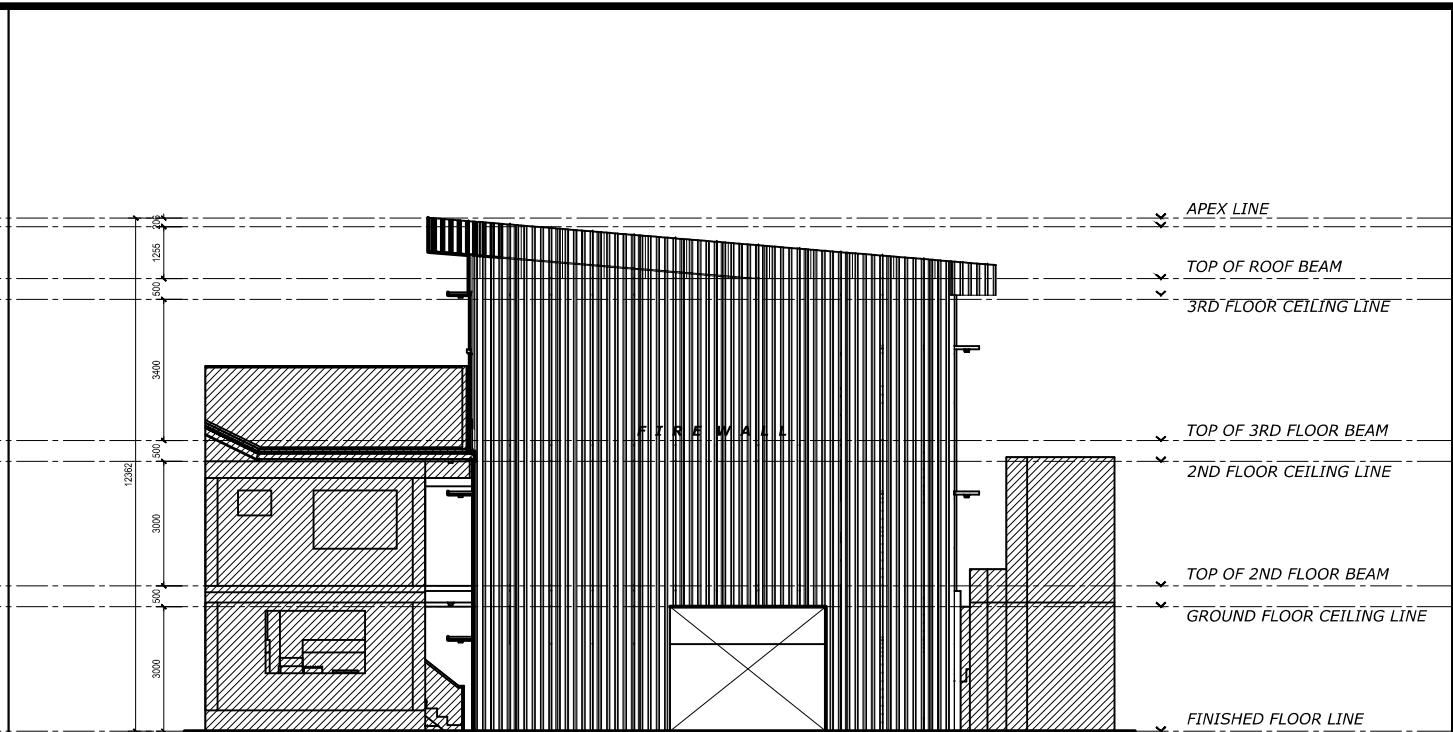
PROJECT TITLE : METRO VIGAN WATER DISTRICT OFFICE EXTENSION
OWNER : METRO VIGAN WATER DISTRICT
LOCATION : SOLID WEST, VIGAN CITY, ILOCOS SUR

DRAWN/C.A.D BY Arthur C. Uganiza Jr.	SHEET CONTENT AS SHOWN
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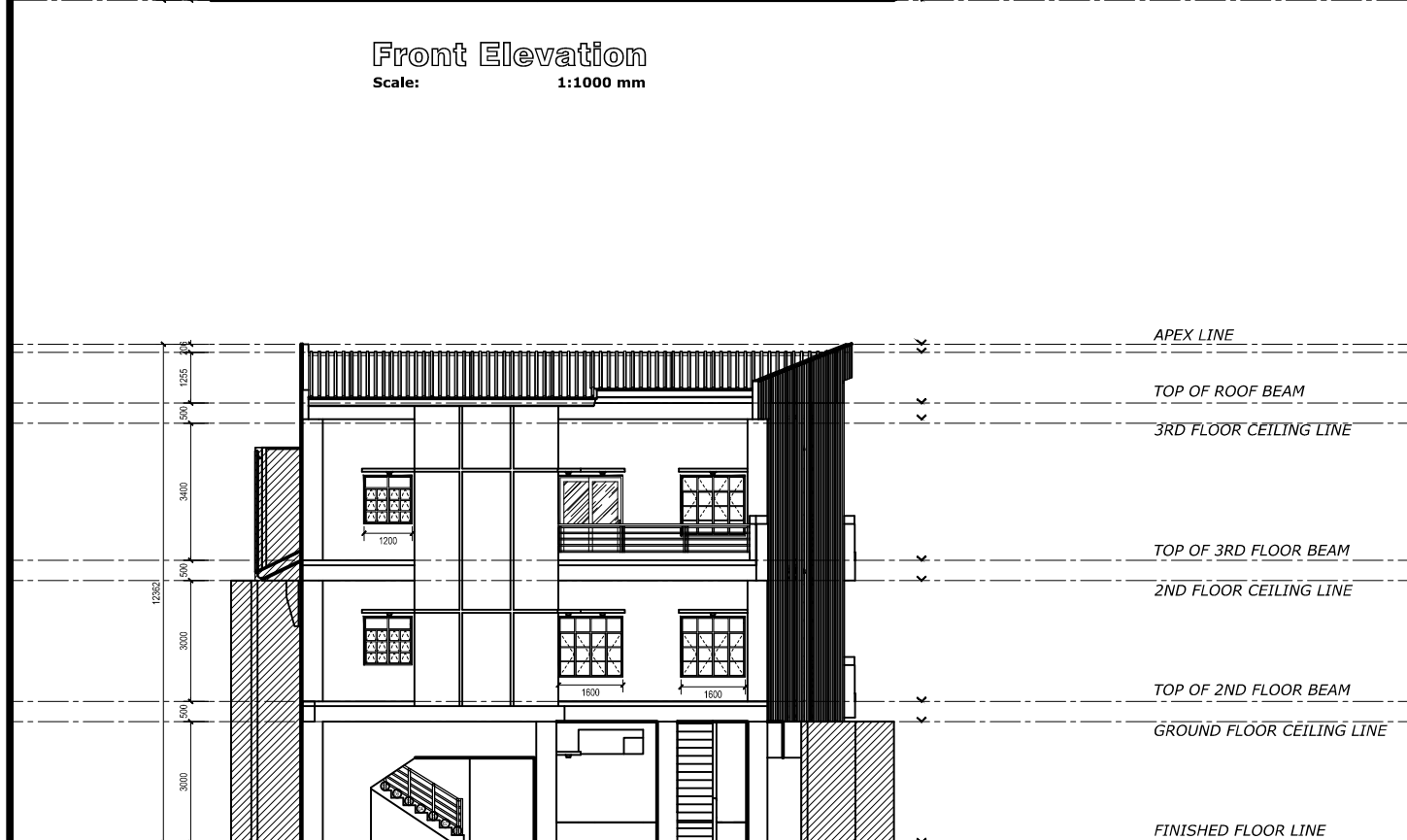
DRAWING NO. A-2
SHEET NO. 02/20



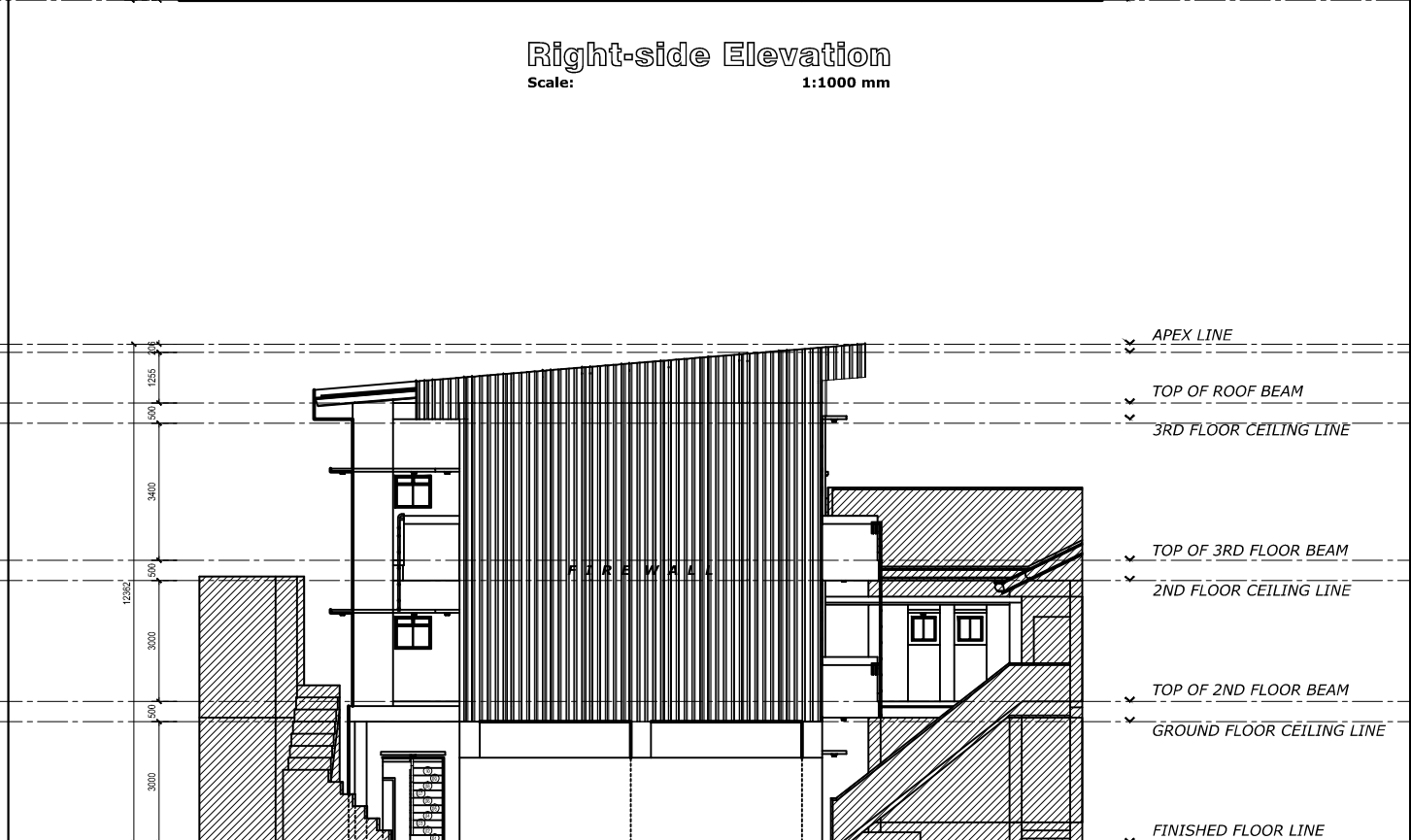
Front Elevation
Scale: 1:1000 mm



Right-side Elevation
Scale: 1:1000 mm



Rear Elevation
Scale: 1:1000 mm



Left-side Elevation
Scale: 1:1000 mm



**BBB JR DESIGN,
BUILD AND SUPPLY**

Arch. Bonifacio B. Barnachea Jr. uap ARCHITECT			
PRC No.: 16885	VALIDITY 07 / 25 / 2021	PTR No.: 7643460	ISSUED ON 01 / 03 / 2019
TIN : 923-578-168	ISSUED AT : Vigan City		
IAPOA NO.: 10907-259071-010170	VALIDITY: 06 / 30 / 2020		

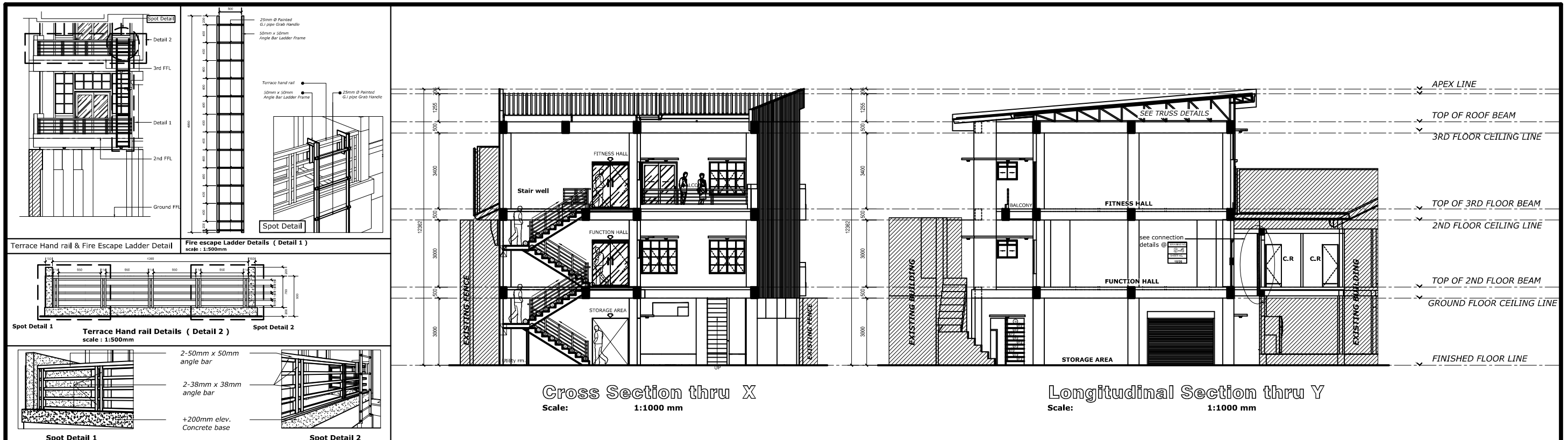
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PROJECT TITLE : METRO VIGAN WATER DISTRICT OFFICE EXTENSION
OWNER : METRO VIGAN WATER DISTRICT
LOCATION : SOLID WEST, VIGAN CITY, ILOCOS SUR

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SHEET CONTENT AS SHOWN

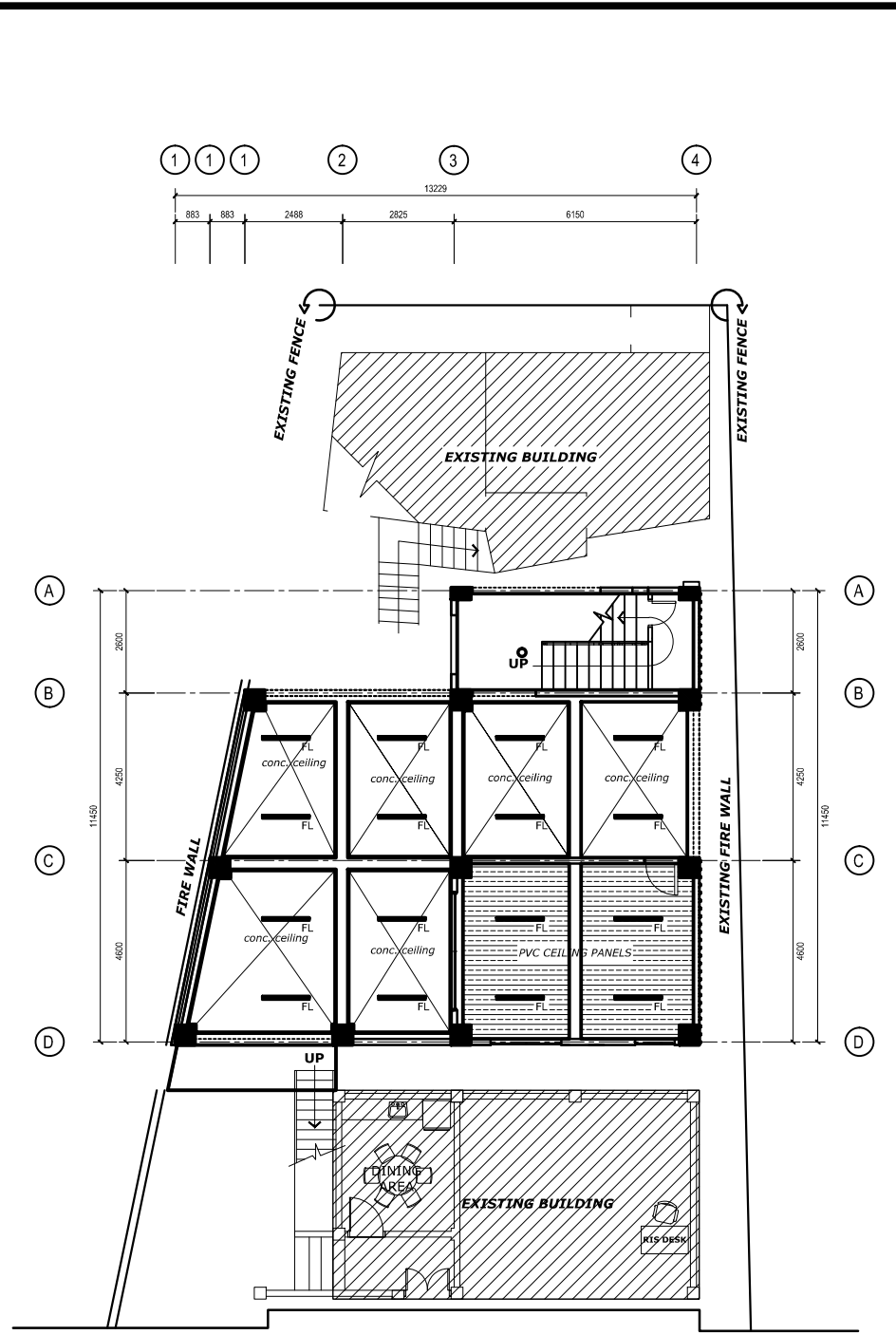
DRAWING NO. A-3
SHEET NO. 03/20



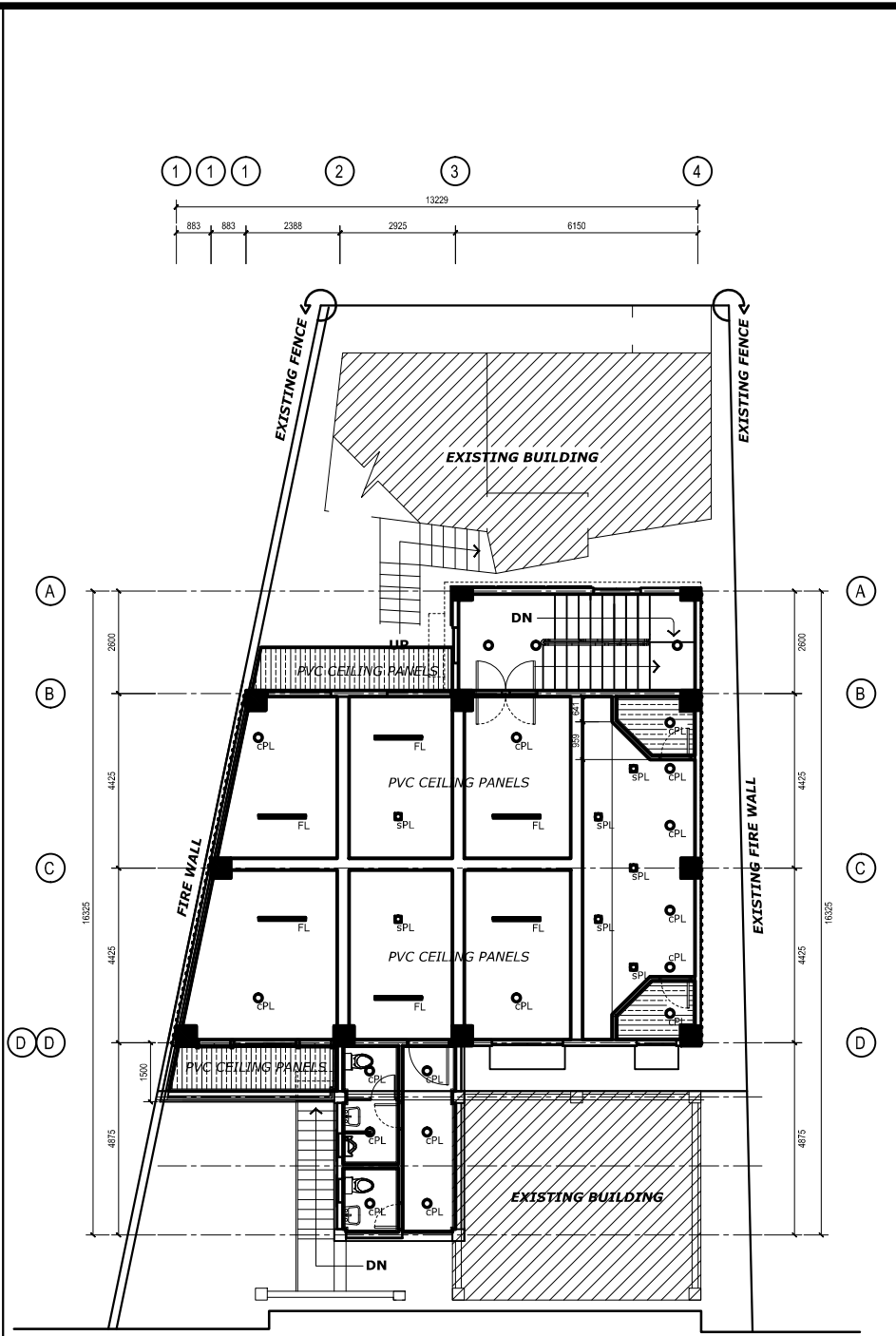
D1	D2	D3	D4	D5	D6	D7	D8	D9	
TYPE: PAINTED STEEL FRAMED ROLL-UP DOOR (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: WOOD PANEL DOOR (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: WOOD PANEL DOOR (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: WOOD PANEL DOOR (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: FENOLIC BOARD DOOR ASSEMBLY (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: DOUBLE SWING DOOR WITH 1/2" THK. TEMPERED FIXED GLASS (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: 1/2" THK. REFLECTIVE GREEN GLASS ON SLIDING DOOR WITH POWDER COATED ALUMINUM FRAME (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: WOOD PANEL DOOR (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: SWING DOOR WITH 1/2" THK. TEMPERED FIXED GLASS (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	
REQUIRED: 1 SET	REQUIRED: 1 SET	REQUIRED: 1 SET	REQUIRED: 3 SETS	REQUIRED: 1 SET	REQUIRED: 2 SETS	REQUIRED: 3 SETS	REQUIRED: 1 SET	REQUIRED: 1 SET	
LOCATION: STORAGE ROOM (GROUND FLOOR)	LOCATION: STORAGE ROOM (GROUND FLOOR)	LOCATION: STORAGE ROOM (2ND FLOOR)	LOCATION: GROUND FLOOR UTILITY ROOM / COMFORT ROOM (2ND FLOOR)	LOCATION: MALE COMFORT ROOM (2ND FLOOR)	LOCATION: FUNCTION HALL (2ND FLOOR) / FITNESS HALL (3RD FLOOR)	LOCATION: FITNESS HALL (3RD FLOOR)	LOCATION: GROUND FLOOR UTILITY ROOM	LOCATION: FUNCTION HALL (2ND FLOOR)	
W1	W2, W3, W4	W5	W6	W7	W8	W9	W10		
TYPE: 1/2" THK. REFLECTIVE GREEN GLASS ON CASEMENT WINDOW WITH POWDER COATED ALUMINUM FRAME (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: 1/2" THK. REFLECTIVE GREEN GLASS ON CASEMENT WINDOW WITH POWDER COATED ALUMINUM FRAME (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: 1/2" THK. REFLECTIVE GREEN GLASS ON CASEMENT WINDOW WITH POWDER COATED ALUMINUM FRAME (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: 1/2" THK. REFLECTIVE GREEN GLASS ON CASEMENT WINDOW WITH POWDER COATED ALUMINUM FRAME (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: 1/2" THK. REFLECTIVE GREEN GLASS ON CASEMENT WINDOW WITH POWDER COATED ALUMINUM FRAME (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: 1/2" THK. REFLECTIVE GREEN GLASS ON CASEMENT WINDOW WITH POWDER COATED ALUMINUM FRAME (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: 1/2" THK. REFLECTIVE GREEN GLASS ON CASEMENT WINDOW WITH POWDER COATED ALUMINUM FRAME (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: 1/2" THK. REFLECTIVE GREEN GLASS ON CASEMENT WINDOW WITH POWDER COATED ALUMINUM FRAME (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	TYPE: 1/2" THK. REFLECTIVE GREEN GLASS ON CASEMENT WINDOW WITH POWDER COATED ALUMINUM FRAME (COMPLETE WITH NECESSARY HARDWARE & ACCESSORIES)	
REQUIRED: 2 SETS & 1 SET	REQUIRED: 2 SETS & 1 SET	REQUIRED: 3 SETS	REQUIRED: 5 SETS	REQUIRED: 2 SETS	REQUIRED: 2 SETS	REQUIRED: 2 SETS	REQUIRED: 2 SETS	REQUIRED: 2 SETS	
LOCATION: FITNESS HALL (3RD FLOOR)	LOCATION: FUNCTION HALL (3RD FLOOR)	LOCATION: FUNCTION HALL (2nd Floor) & FITNESS HALL (3rd Floor)	LOCATION: STORAGE ROOM (Ground Floor) / FUNCTION HALL (2nd Floor) & FITNESS HALL (3rd Floor)	LOCATION: STAIR WELL (2nd Floor & 3rd Floor)	LOCATION: STAIR LANDING (2nd Floor & 3rd Floor)	LOCATION: STORAGE ROOM (Ground Floor) / FUNCTION HALL (2nd Floor)	LOCATION: COMFORT ROOM (2nd Floor)	LOCATION: COMFORT ROOM (2nd Floor)	

Schedule of Doors & Windows
Scale: 1:500 mm

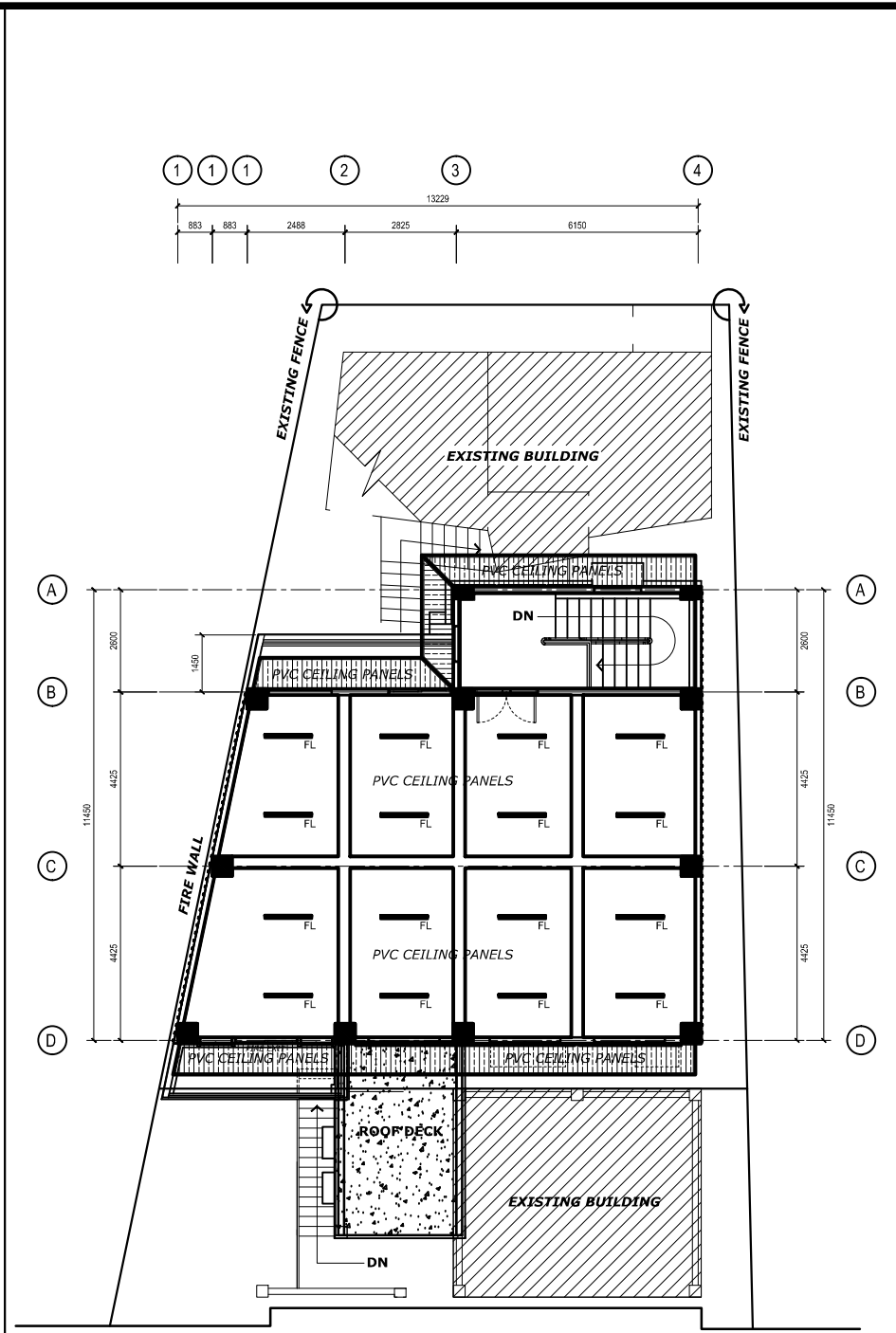
	<p>BBB JR DESIGN, BUILD AND SUPPLY</p>	<p>Arch. Bonifacio B. Barmachea Jr. uap ARCHITECT</p>	<p>NOTE: "These drawings are the properties and documents of ARCHITECT. It is unlawful for any person to copy these documents without the written consent of the ARCHITECT." (R.A. 545 Sec.25 No. 04)</p>	PROJECT TITLE : METRO VIGAN WATER DISTRICT OFFICE EXTENSION	DRAWN/C.A.D BY	SHEET CONTENT	DRAWING NO.
				OWNER : METRO VIGAN WATER DISTRICT	Arthur C. Uganiza Jr.	AS SHOWN	A-4
LOCATION : SOLID WEST, VIGAN CITY, ILOCOS SUR	CHECKED BY		SHEET NO.				
			04/20				



Ground Reflected Ceiling Plan
Scale: 1:1000 mm



Second Floor Reflected Ceiling Plan
Scale: 1:1000 mm



Third Floor Reflected Ceiling Plan
Scale: 1:1000 mm



**BBB JR DESIGN,
BUILD AND SUPPLY**

Arch. Bonifacio B. Barmacha Jr. uap ARCHITECT		
PRC No.: 16885	VALIDITY 07 / 25 / 2021	PTR No.: 7643460 ISSUED ON 01 / 03 / 2019
TIN : 923-578-168	ISSUED AT : Vigan City	
IAPOA NO.: 10907-259071-010170	VALIDITY: 06 / 30 / 2020	

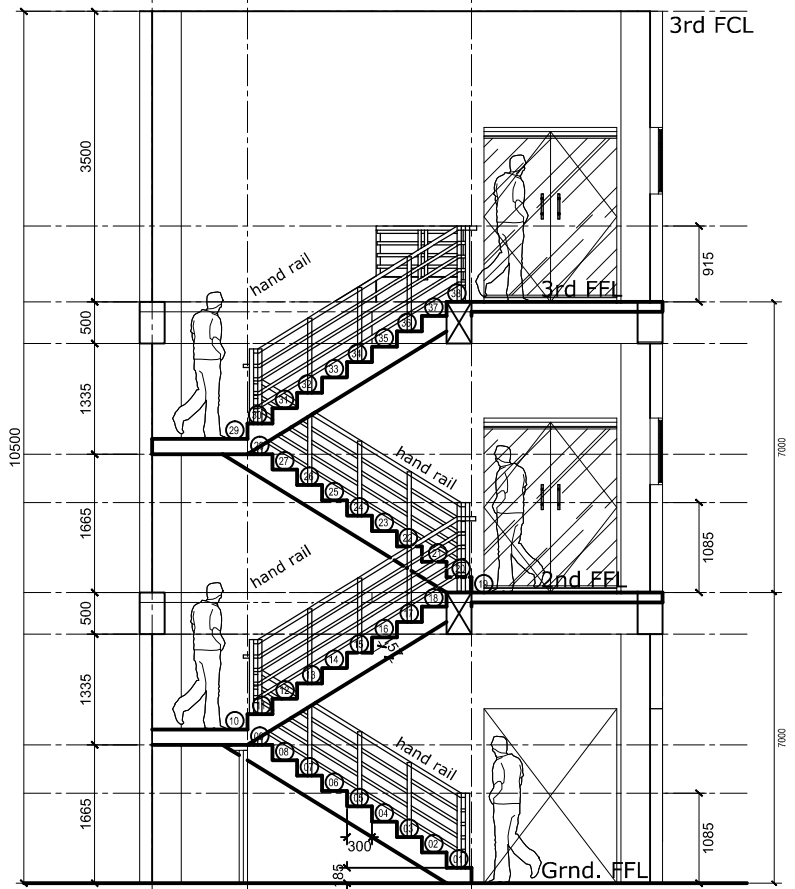
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PROJECT TITLE : METRO VIGAN WATER DISTRICT OFFICE EXTENSION
OWNER : METRO VIGAN WATER DISTRICT
LOCATION : SOLID WEST, VIGAN CITY, ILOCOS SUR

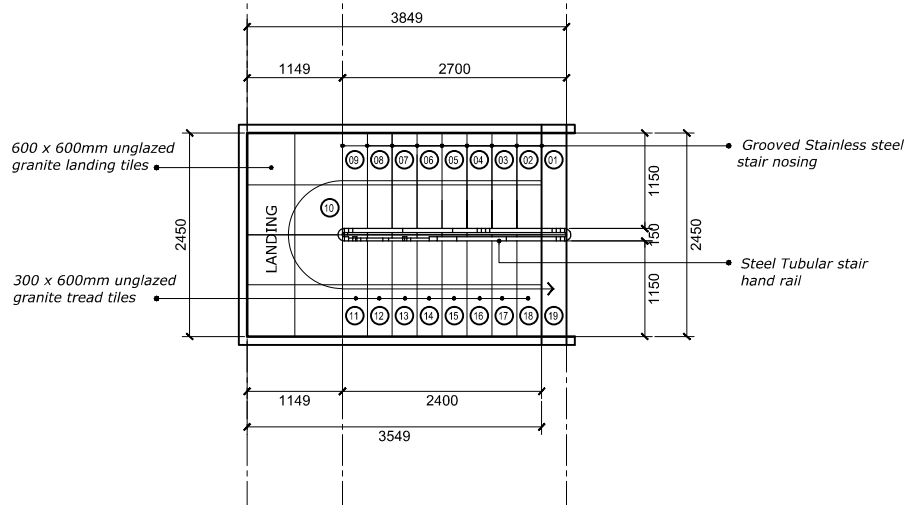
DRAWN/C.A.D BY Arthur C. Uganiza Jr.
CHECKED BY

SHEET CONTENT AS SHOWN

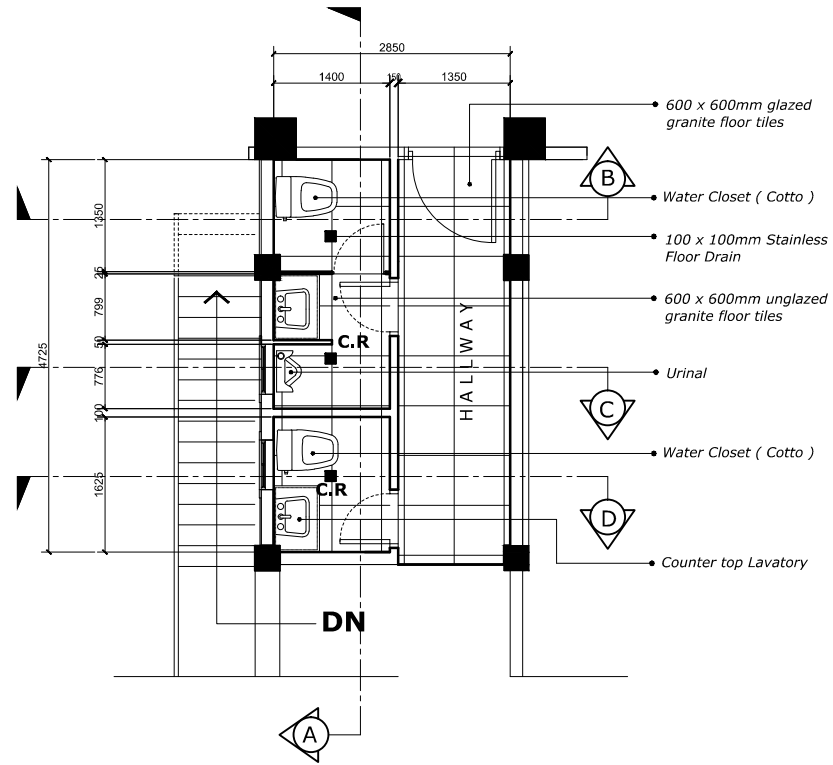
DRAWING NO. A-5
SHEET NO. 05/20



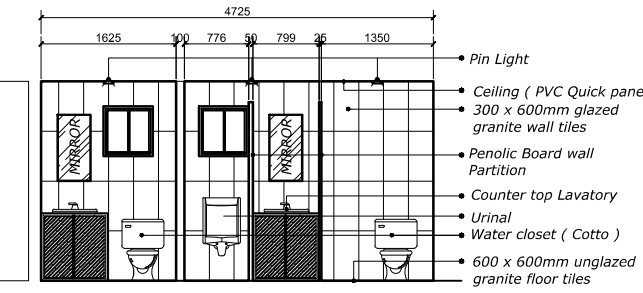
Stair Section Details
Scale: 1:500 mm



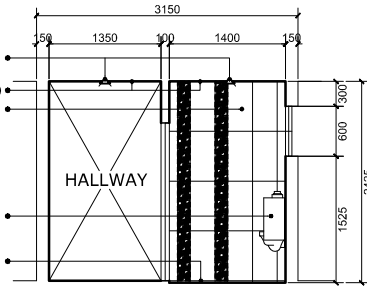
Stair Plan Details
Scale: 1:500 mm



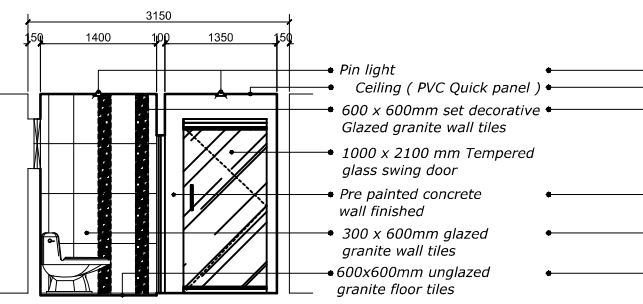
PLAN DETAILS (A)
scale 1:500mm



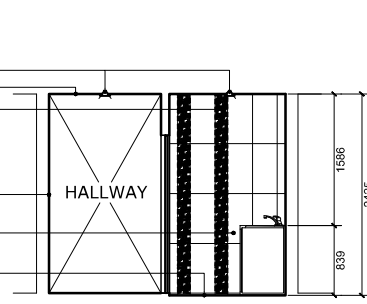
SECTION DETAILS (A)
scale 1:500mm



SECTION DETAILS (C)
scale 1:500mm

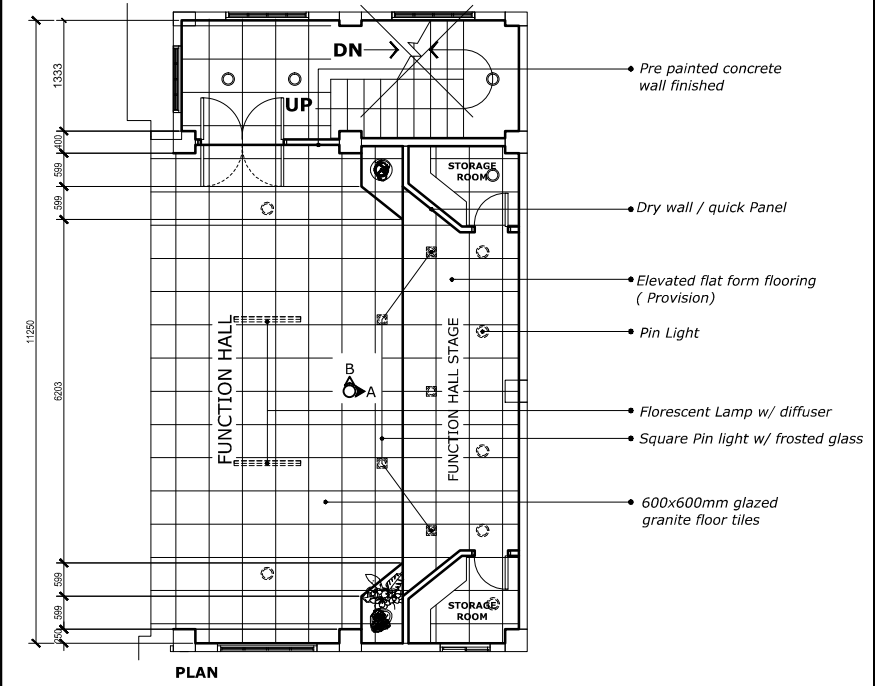


SECTION DETAILS (B)
scale 1:500mm

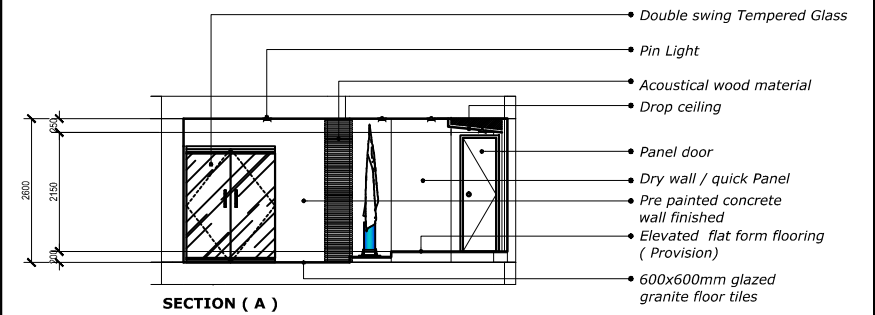


SECTION DETAILS (D)
scale 1:500mm

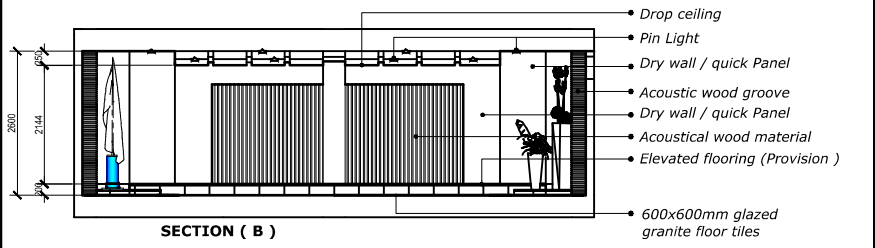
Comfort room Finishing Details
Scale: 1:500 mm



PLAN



SECTION (A)



SECTION (B)

Function Hall Finishing Details
Scale: 1:750 mm



**BBB JR DESIGN,
BUILD AND SUPPLY**

Arch. Bonifacio B. Barmachea Jr. uap ARCHITECT		
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TIN : 923-578-168	ISSUED AT : Vigan City	
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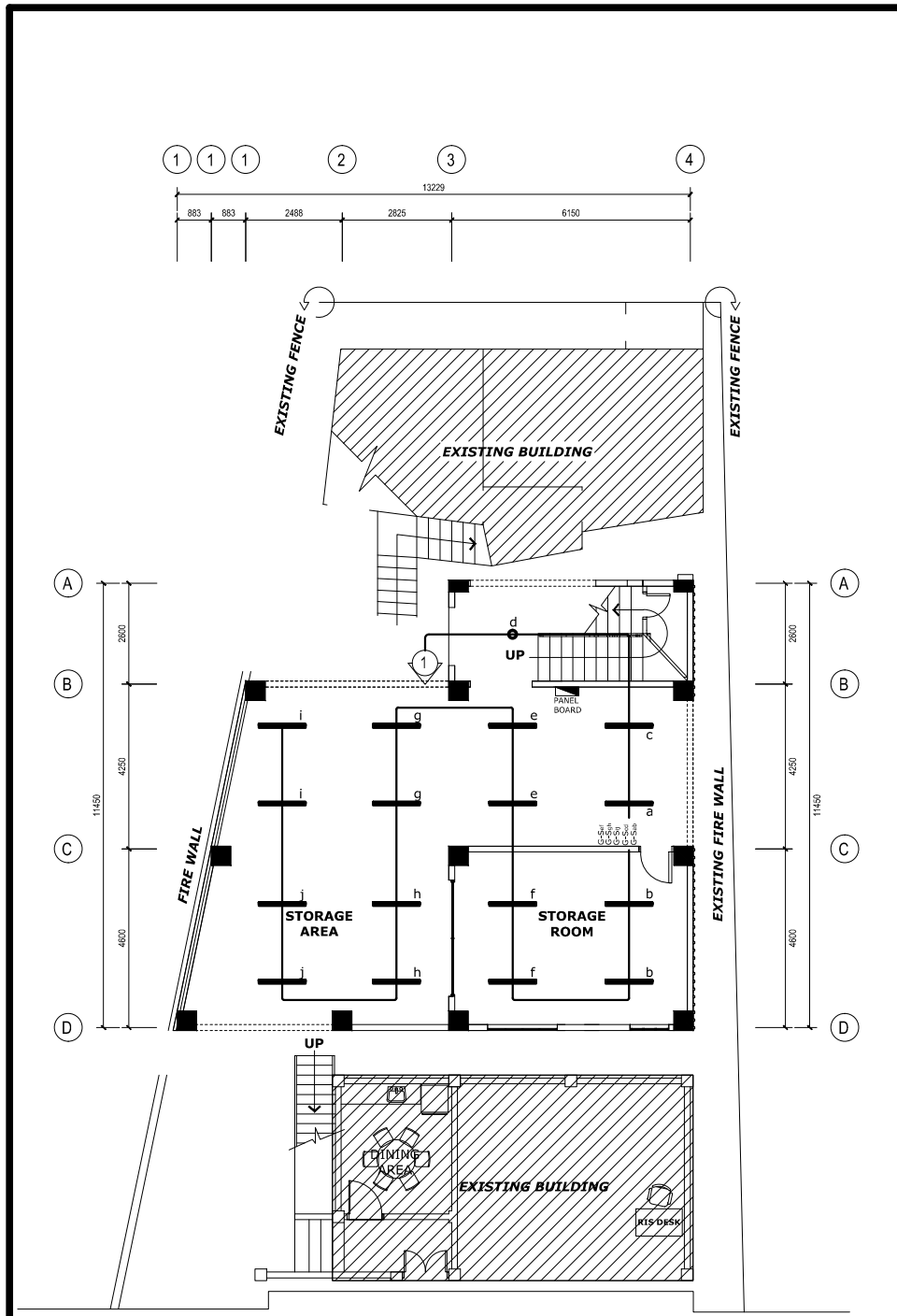
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PROJECT TITLE : METRO VIGAN WATER DISTRICT OFFICE EXTENSION
OWNER : METRO VIGAN WATER DISTRICT
LOCATION : SOLID WEST, VIGAN CITY, ILOCOS SUR

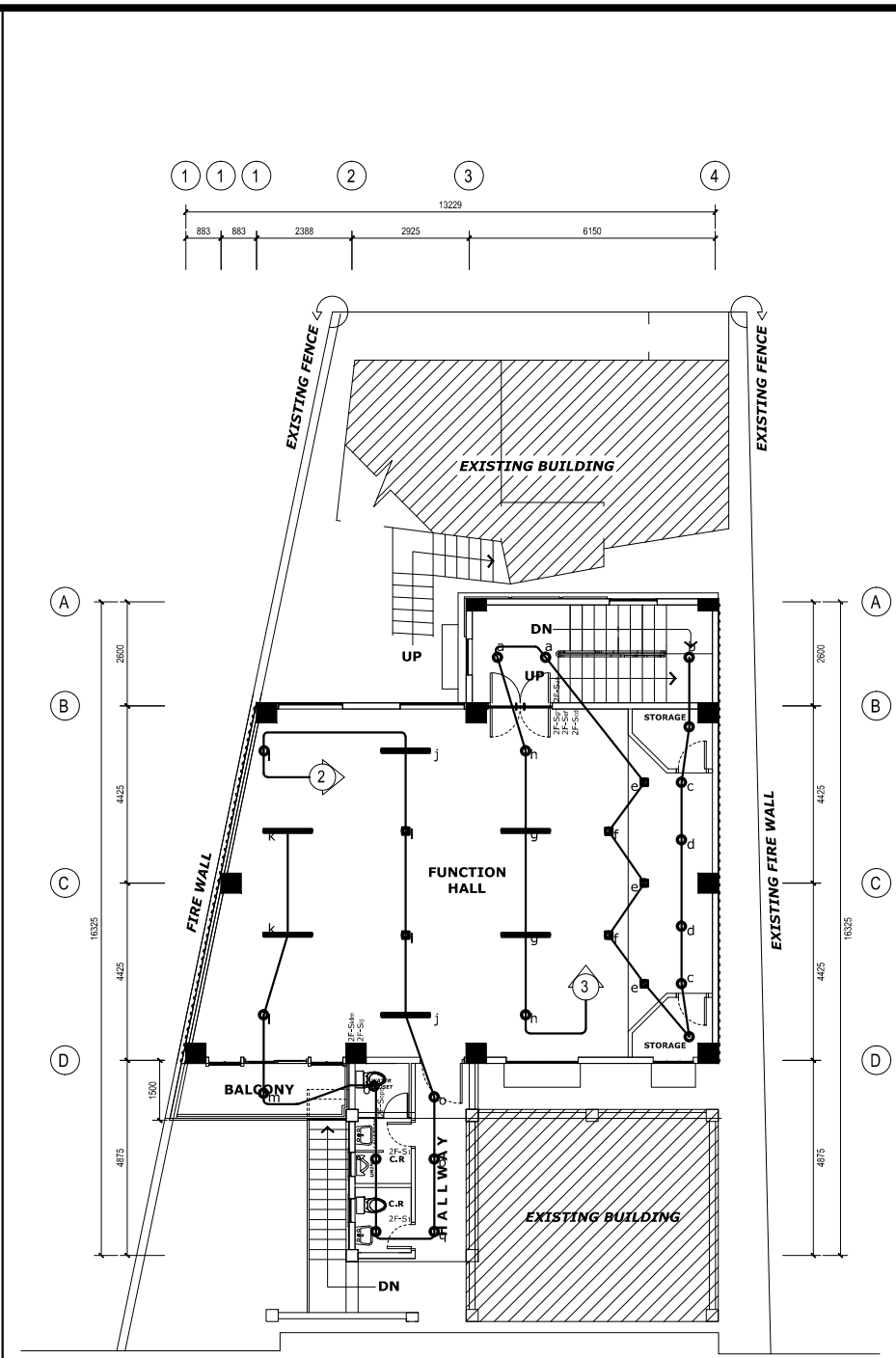
DRAWN/C.A.D BY Arthur C. Uganiza Jr.
CHECKED BY

SHEET CONTENT AS SHOWN

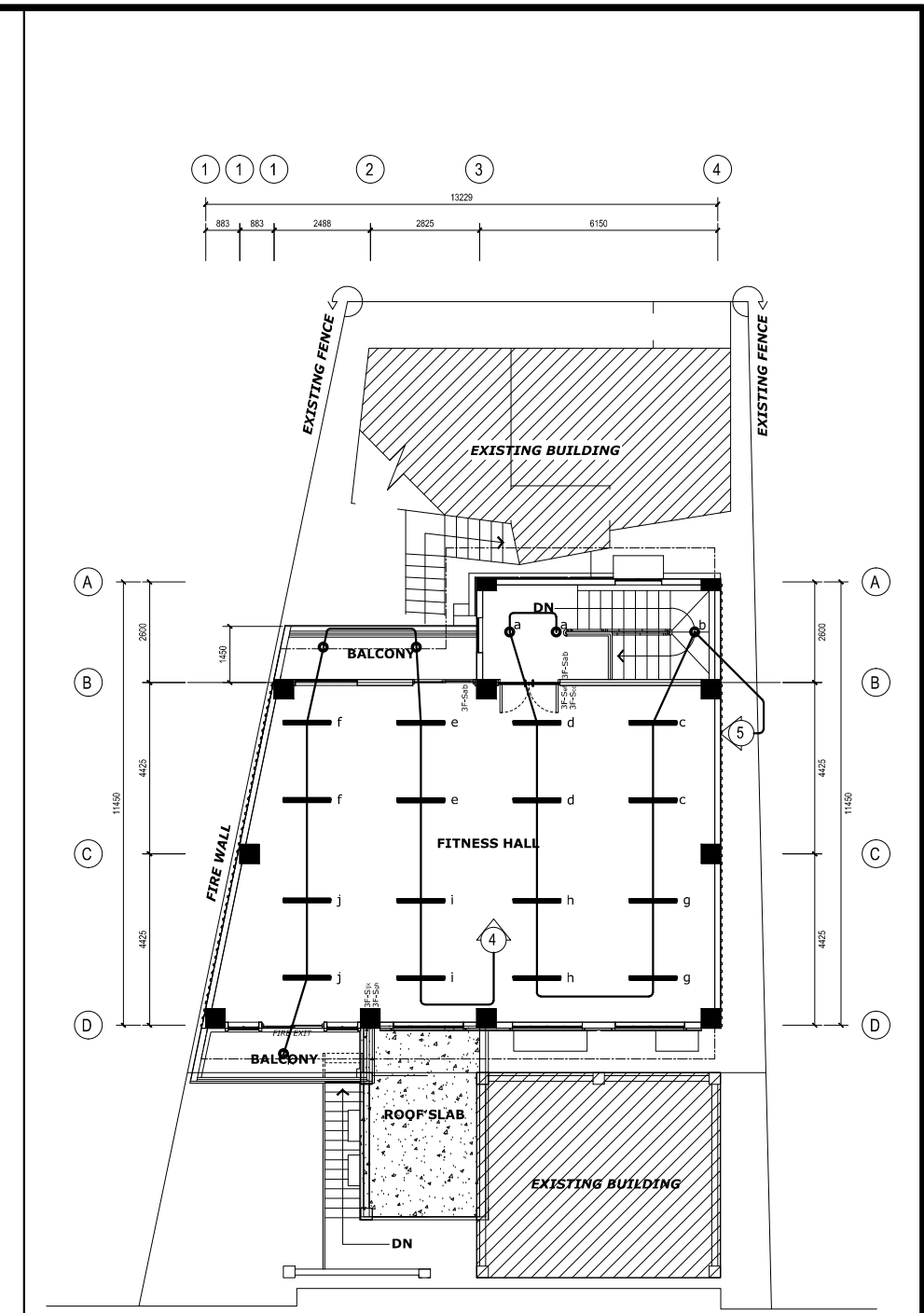
DRAWING NO. A-6
SHEET NO. 06/20



Ground Floor Lighting Layout
Scale: 1:1000 mm



2nd Floor Lighting Layout
Scale: 1:1000 mm



3rd Floor Lighting Layout
Scale: 1:1000 mm



**BBB JR DESIGN,
BUILD AND SUPPLY**

PROFL. ELEC. ENGINEER	
PRC REG. No. :	PTR No. :
TIN :	ISSUED AT :
	ISSUED ON :

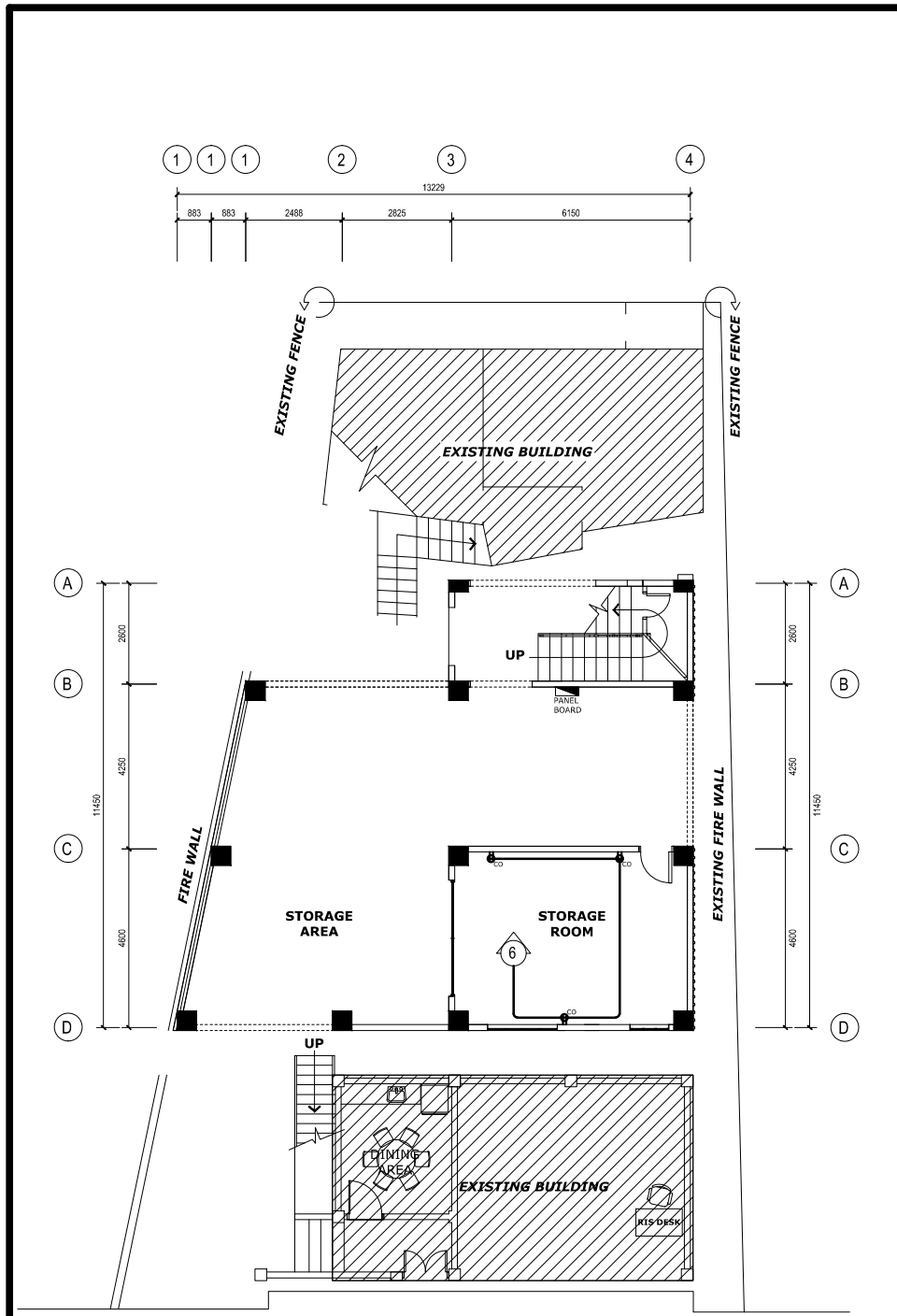
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(R.A. 545 Sec.25 No. 04)

PROJECT TITLE : METRO VIGAN WATER DISTRICT OFFICE EXTENSION
OWNER : METRO VIGAN WATER DISTRICT
LOCATION : SOLID WEST, VIGAN CITY, ILOCOS SUR

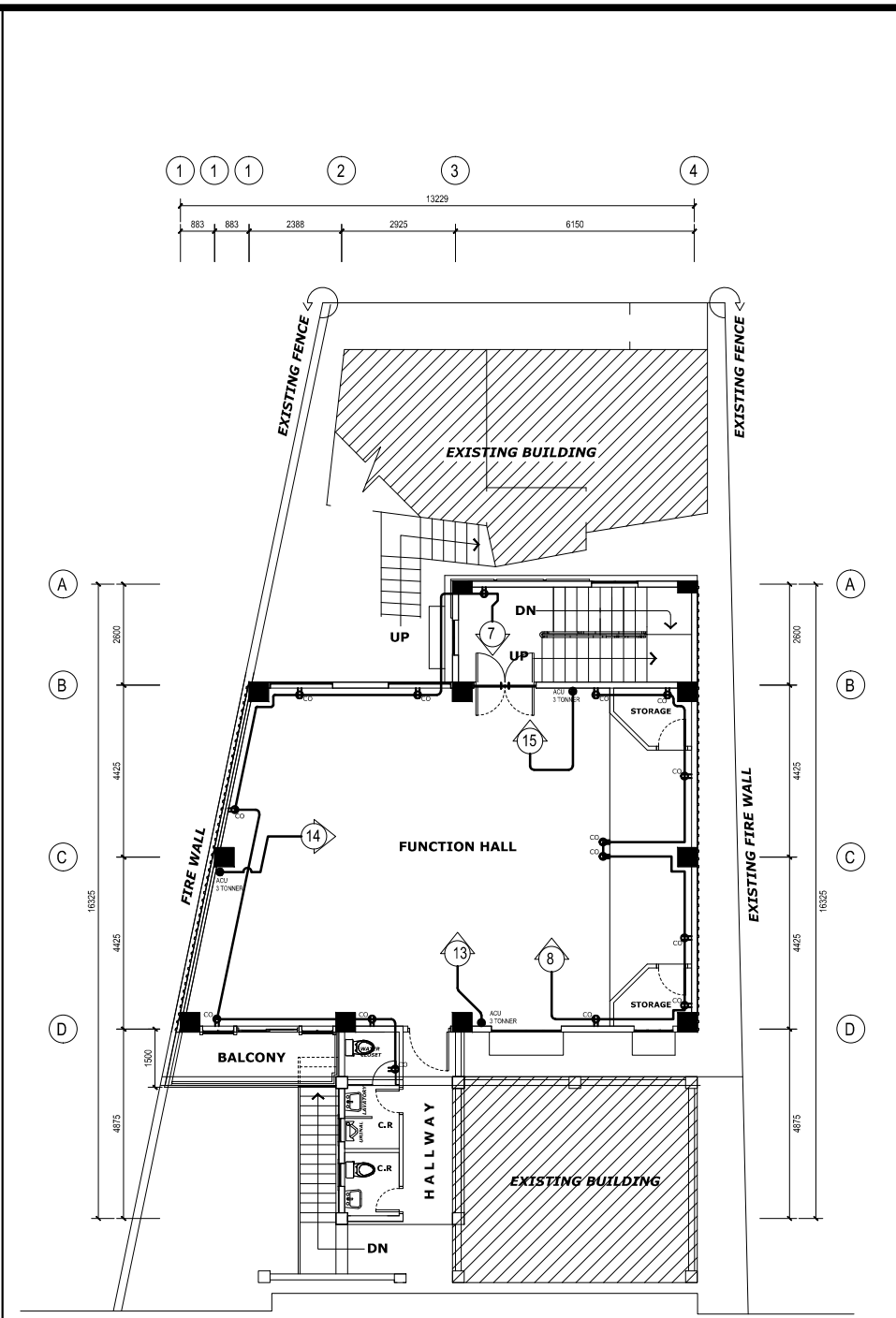
DRAWN/C.A.D BY Arthur C. Uganiza Jr.
CHECKED BY

SHEET CONTENT AS SHOWN

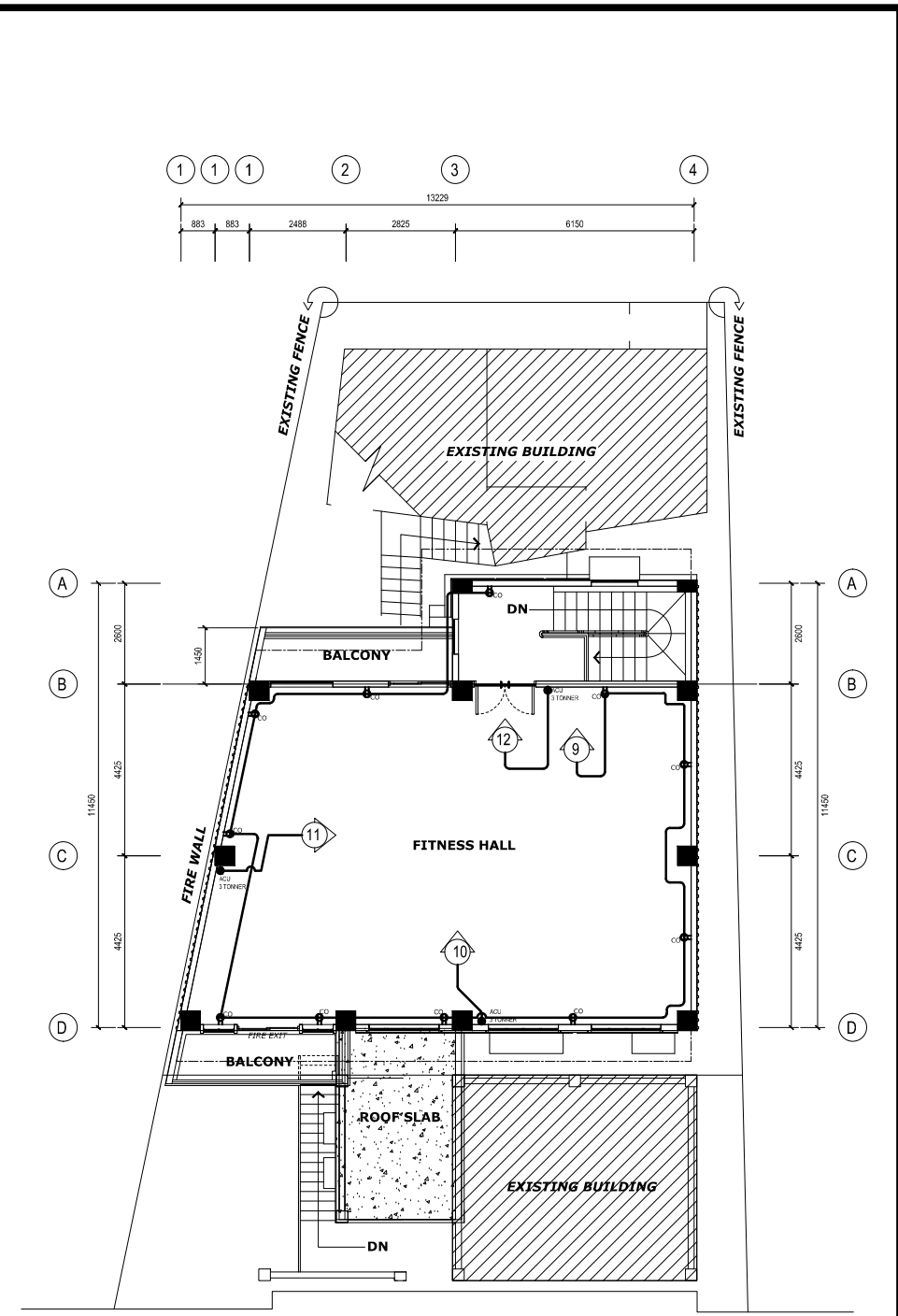
DRAWING NO. E-1
SHEET NO. 16/20



Ground Floor Power Layout
Scale: 1:1000 mm



2nd Floor Power Layout
Scale: 1:1000 mm



3rd Floor Power Layout
Scale: 1:1000 mm



**BBB JR DESIGN,
BUILD AND SUPPLY**

PROFL. ELEC. ENGINEER	
PRC REG. No. :	PTR No. :
TIN :	ISSUED AT :
	ISSUED ON :

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LOCATION : SOLID WEST, VIGAN CITY, ILOCOS SUR

DRAWN/C.A.D BY Arthur C. Uganiza Jr.
CHECKED BY

SHEET CONTENT AS SHOWN

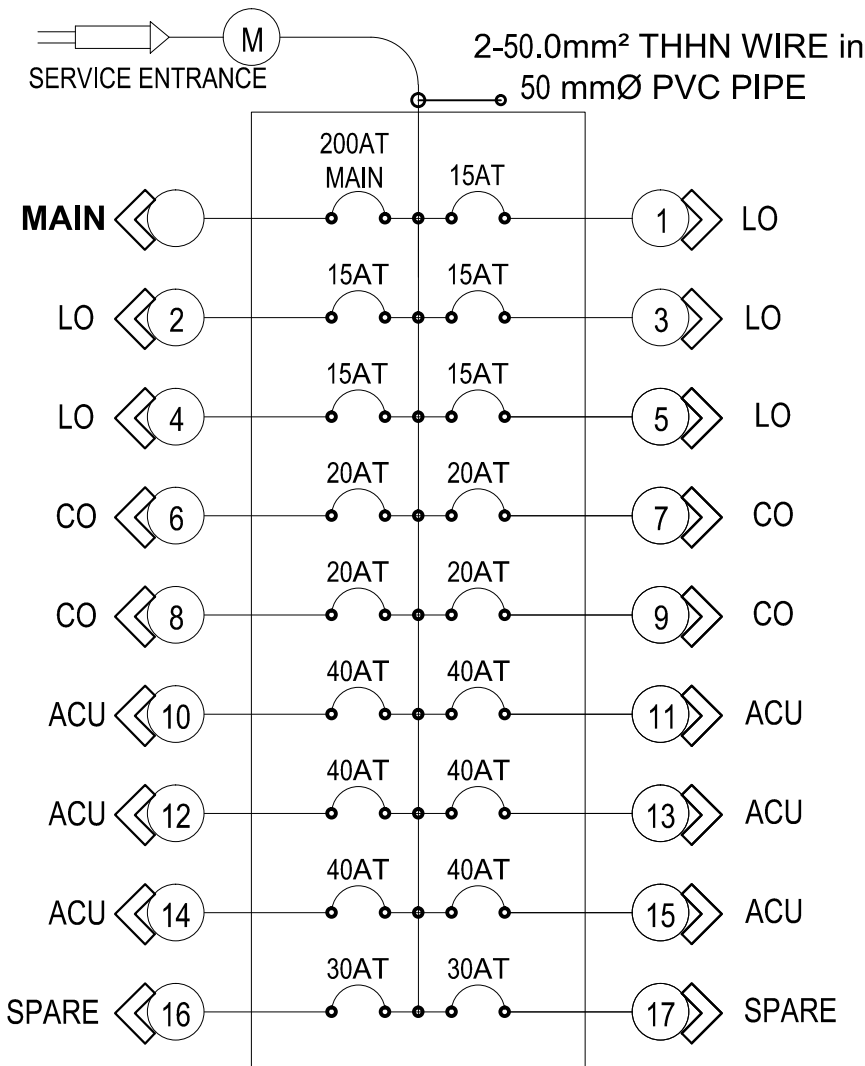
DRAWING NO. E-2
SHEET NO. 17/20

CKT. NO.	DESCRIPTION	NO. OF OUTLETS	CAPACITY		CURRENT (A)	CIRCUIT BREAKER		SIZE OF WIRE AND CONDUIT
			(VA)	(V)		A1	POLE	
1	LIGHTING OUTLET	17	1700	230	7.39	15	2	2-2.0 sq. mm THHN in 20 mmØ PVC
2	LIGHTING OUTLET	15	1500	230	6.52	15	2	2-2.0 sq. mm THHN in 20 mmØ PVC
3	LIGHTING OUTLET	18	1800	230	7.83	15	2	2-2.0 sq. mm THHN in 20 mmØ PVC
4	LIGHTING OUTLET	11	1100	230	4.78	15	2	2-2.0 sq. mm THHN in 20 mmØ PVC
5	LIGHTING OUTLET	11	1100	230	4.78	15	2	2-2.0 sq. mm THHN in 20 mmØ PVC
6	CONVENIENCE OUTLET	3	540	230	2.35	20	2	2-3.5 sq. mm THHN in 25 mmØ PVC
7	CONVENIENCE OUTLET	7	1610	230	7.00	20	2	2-3.5 sq. mm THHN in 25 mmØ PVC
8	CONVENIENCE OUTLET	8	1440	230	6.26	20	2	2-3.5 sq. mm THHN in 25 mmØ PVC
9	CONVENIENCE OUTLET	11	1980	230	8.61	20	2	2-3.5 sq. mm THHN in 25 mmØ PVC
10	AIR CONDITION UNIT (3 ton)	1	10580	230	46.00	40	2	2-5.5 sq. mm THHN in 25 mmØ PVC
11	AIR CONDITION UNIT (3 ton)	1	10580	230	46.00	40	2	2-5.5 sq. mm THHN in 25 mmØ PVC
12	AIR CONDITION UNIT (3 ton)	1	10580	230	46.00	40	2	2-5.5 sq. mm THHN in 25 mmØ PVC
13	AIR CONDITION UNIT (3 ton)	1	10580	230	46.00	40	2	2-5.5 sq. mm THHN in 25 mmØ PVC
14	AIR CONDITION UNIT (3 ton)	1	10580	230	46.00	40	2	2-5.5 sq. mm THHN in 25 mmØ PVC
15	AIR CONDITION UNIT (3 ton)	1	10580	230	46.00	40	2	2-5.5 sq. mm THHN in 25 mmØ PVC
16	SPARE @ 1000 VA	-	-	230	#####	30	2	2-5.5 sq. mm THHN in 25 mmØ PVC
17	SPARE @ 1000 VA	-	-	230	#####	30	2	2-5.5 sq. mm THHN in 25 mmØ PVC
18	TOTAL	105	76250		239.52			

$I_t = (239.52 (70\% DF) + 8 (0.25)) = 169.664 \text{ AMP.}$

Size of SERVICE ENTRANCE: USE: 2 - 50.0 sq.mm THHN cu. wire in 50mm Ø RSC

USE: 200AT, 2 POLE, 230V Molded Case CIRCUIT BREAKER W/ 18 BRANCHES



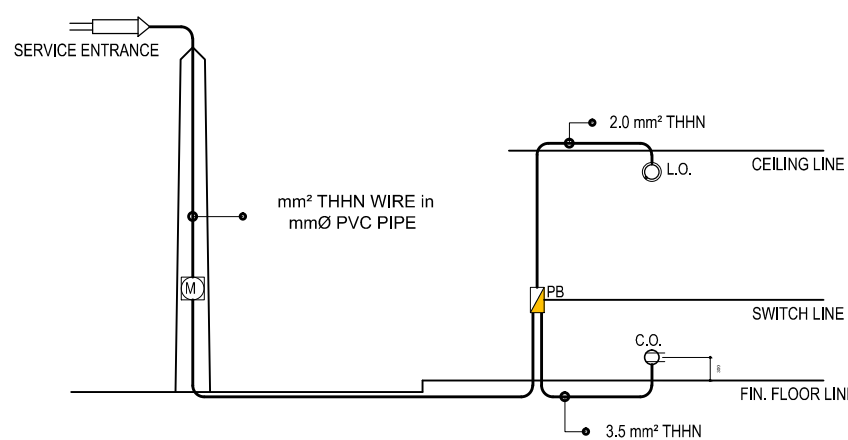
- ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE THE NEW ELECTRICAL ENGINEERING LAW (R.A.7920), LAWS AND ORDINANCES OF THE LOCAL GOVERNMENT UNIT AND LAWS AND REGULATIONS OF THE LOCAL ELECTRICAL POWER UTILITY COMPANY.
- ALL WIRINGS SHALL BE IN RIGID STEEL CONDUIT (R.S.C.) FOR EXPOSE MAIN SERVICE LINES AND UNPLASTICIZED POLYVINYL CHLORIDE, RIGID (uPVC) FOR BURIED UNDERGROUND CONDUIT MAIN SERVICE LINE. FLEXIBLE POLYVINYL CHLORIDE (P.V.C.) WITH ACCEPTABLE DURABILITY FOR LOAD LINES.
- PANEL BOARDS AND OVERCURRENT PROTECTION ENCLOSURES SHALL BE NEMA-1 FOR INDOOR USE AND NEMA-3R FOR OUTDOOR USE UNLESS OTHERWISE SPECIFIED.
- POWER SERVICE SHALL BE 230 V, 60 HZ., 3-WIRE, SINGLE PHASE.
- ALL WIRING INSTALLATION SHALL BE CONCEALED FROM VIEW.
- UNLESS OTHERWISE INDICATED BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN 1.6 mm DIAMETER. SOLID COPPER, MEDIUM DRAWN, TW TYPE, 600 VOLTS INSULATIONS.
- MINIMUM SIZE OF CONDUIT SHALL BE 20mm FOR RIGID CONDUIT (R.S.C.) AND 20mm FOR UNPLASTICIZED POLYVINYL CHLORIDE, FLEXIBLE OR RIGID (uPVC). ALL FLEXIBLE POLYVINYL CHLORIDE CONDUIT INSTALLED IN SLABS OR CHB WALL SHOULD BE
- NO BRANCH CIRCUIT CONDUCTORS SHALL BE LOADED 80% OF ADEQUATELY SUPPORTED, WELL PROTECTED AND FREE OTHER DAMAGE. ITS RATED AMPACITY.
- FOR EVERY SPARE BRANCH CIRCUIT IN PANELBOARD, PROVIDE ONE 20mm uPVC WITH ITS RATED AMPACITY. # 16 G.I. PULLWIRE CONNECTED TO JUNCTION BOX W/COVER AT THE CONCRETE SLAB.
- BOXES SHALL BE PRESSED STEEL WITH REQUIRED THICKNESS IN CONFORMANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
- MOUNTING HEIGHT OF THE PANEL AND DEVICES ARE AS FOLLOWS: (FROM FLOOR FINISH TO CENTER OF THE UNIT)

A. WALL SWITCHES	1400 MM
B. WALL CONVENIENCE OUTLETS	300 MM
C. WALL AIR CONDITIONING UNIT	900 MM
D. COUNTER-TOP OUTLET	1200 MM
E. KWHR. METER	1650 MM
F. PANELBOARD	1350 MM
- CONDUITS/RACEWAYS SHALL BE ADEQUATELY SUPPORT AS REQUIRED IN THE COMFORMANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
- DISTRIBUTION PANEL SHALL BE READILY ACCESSIBLE. THAT NO OBSTACLE SHOULD BLOCK ACCESS TO THE PANEL.
- THE INSTALLATION SHALL BE DIRECTLY SUPERVISED BY DULY LICENSED ELECTRICAL PRACTITIONER IN COMFORMANCE WITH R.A. 7920.

SCHEDULE OF LOADS

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	SERVICE ENTRANCE		PANELBOARD
	CIRCUIT BREAKER		KILOWATT HOUR METER
	SWITCH LINE		CIRCUIT HOMERUN
	LIGHTING LINE		SINGLE POLE SWITCH
	POWER LINE		DOUBLE POLE SWITCH
	AIRCON OUTLET		TRIPLE POLE SWITCH
	CONVENIENCE OUTLET		THREE WAY SWITCH
	COUNTER TOP CONV. OUTLET		CIRCULAR LAMP
	RANGEHOOD CONV. OUTLET		PINLIGHT
	RANGE OUTLET		WALL LAMP
	WATER HEATER		CHANDELIER
	WEATHER PROOF OUTLET		TROPPER
	FLUORESCENT LAMP		TELEPHONE OUTLET
	CABLE TELEVISION		BUZZER

RISER DIAGRAM LP/PP



ELECTRICAL LEGEND & SYMBOLS

SINGLE LINE DIAGRAM

GENERAL ELECTRICAL NOTES



**BBB JR DESIGN,
BUILD AND SUPPLY**

PROFL. ELEC. ENGINEER	
PRC REG. No.:	PTR No.:
TIN:	ISSUED AT:
	ISSUED ON:

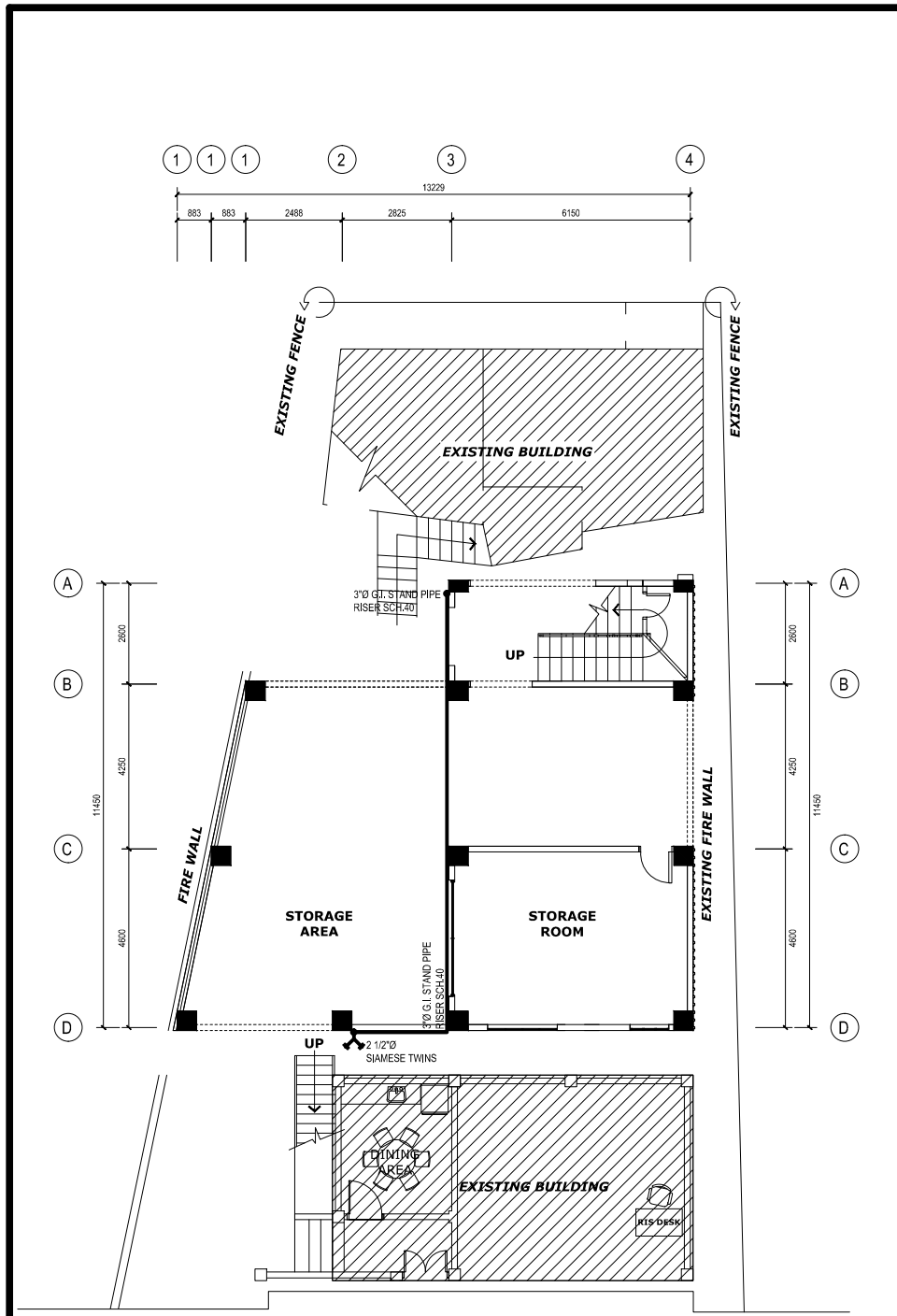
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PROJECT TITLE : METRO VIGAN WATER DISTRICT OFFICE EXTENSION
OWNER : METRO VIGAN WATER DISTRICT
LOCATION : SOLID WEST, VIGAN CITY, ILOCOS SUR

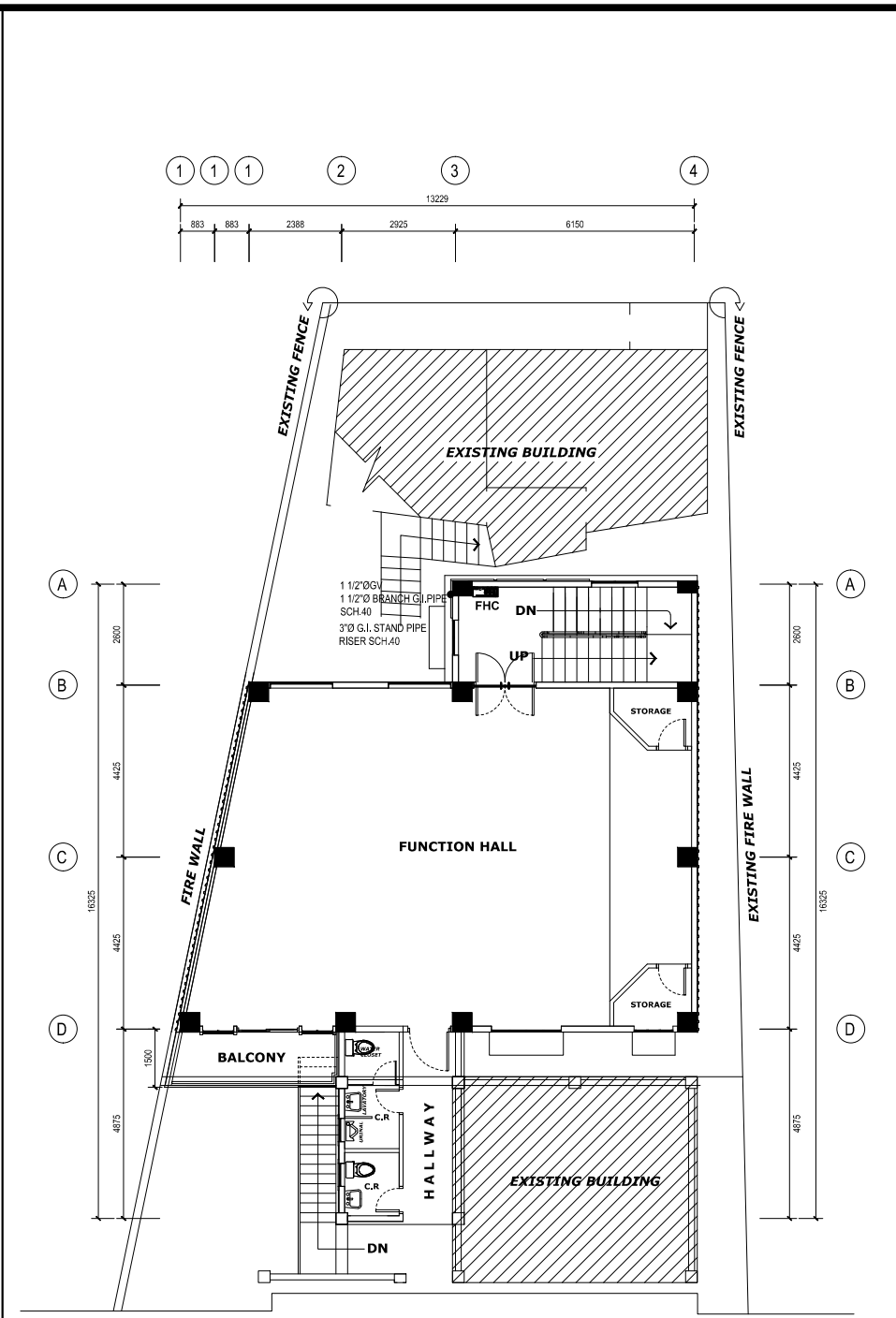
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SHEET CONTENT AS SHOWN

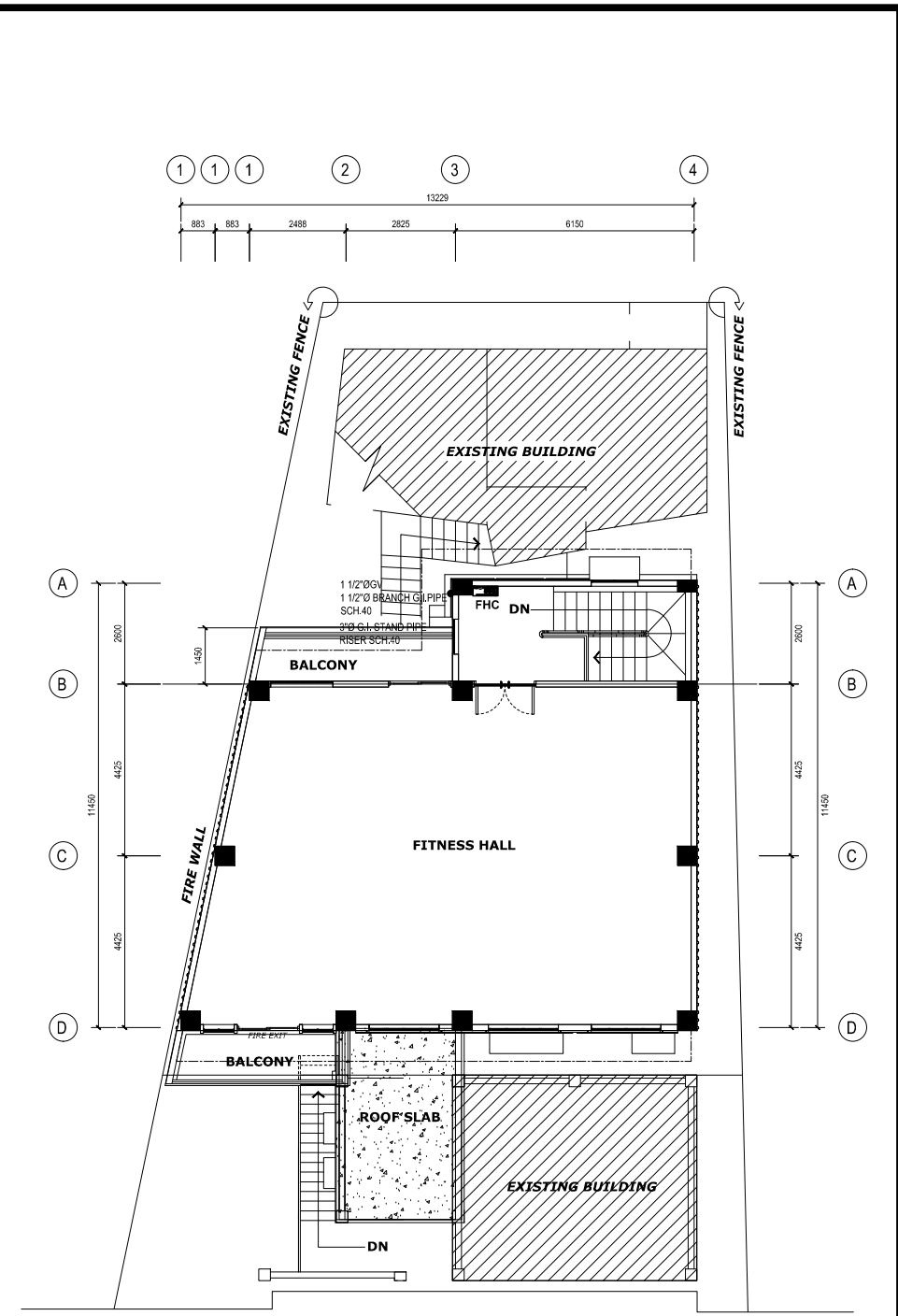
DRAWING NO. E-3
SHEET NO. 18/20



Ground Floor Dry Stand Pipe Layout
Scale: 1:1000 mm



2nd Floor Dry Stand Pipe Layout
Scale: 1:1000 mm



3rd Floor Dry Stand Pipe Layout
Scale: 1:1000 mm



**BBB JR DESIGN,
BUILD AND SUPPLY**

PRC REG. No. :	PTR No. :	PRC REG. No. :	PTR No. :
TIN :	ISSUED AT :	TIN :	ISSUED AT :
	ISSUED ON :		ISSUED ON :

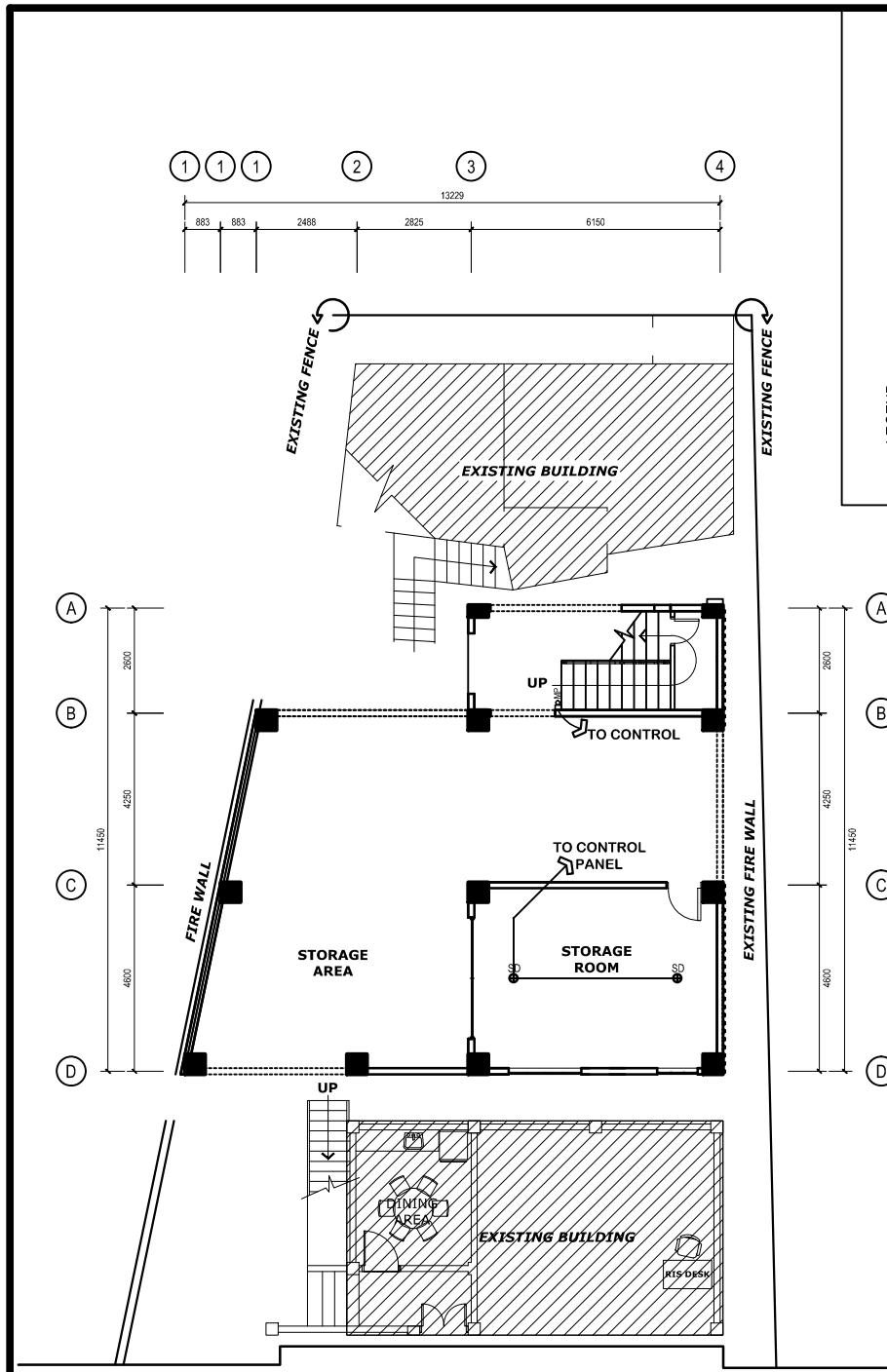
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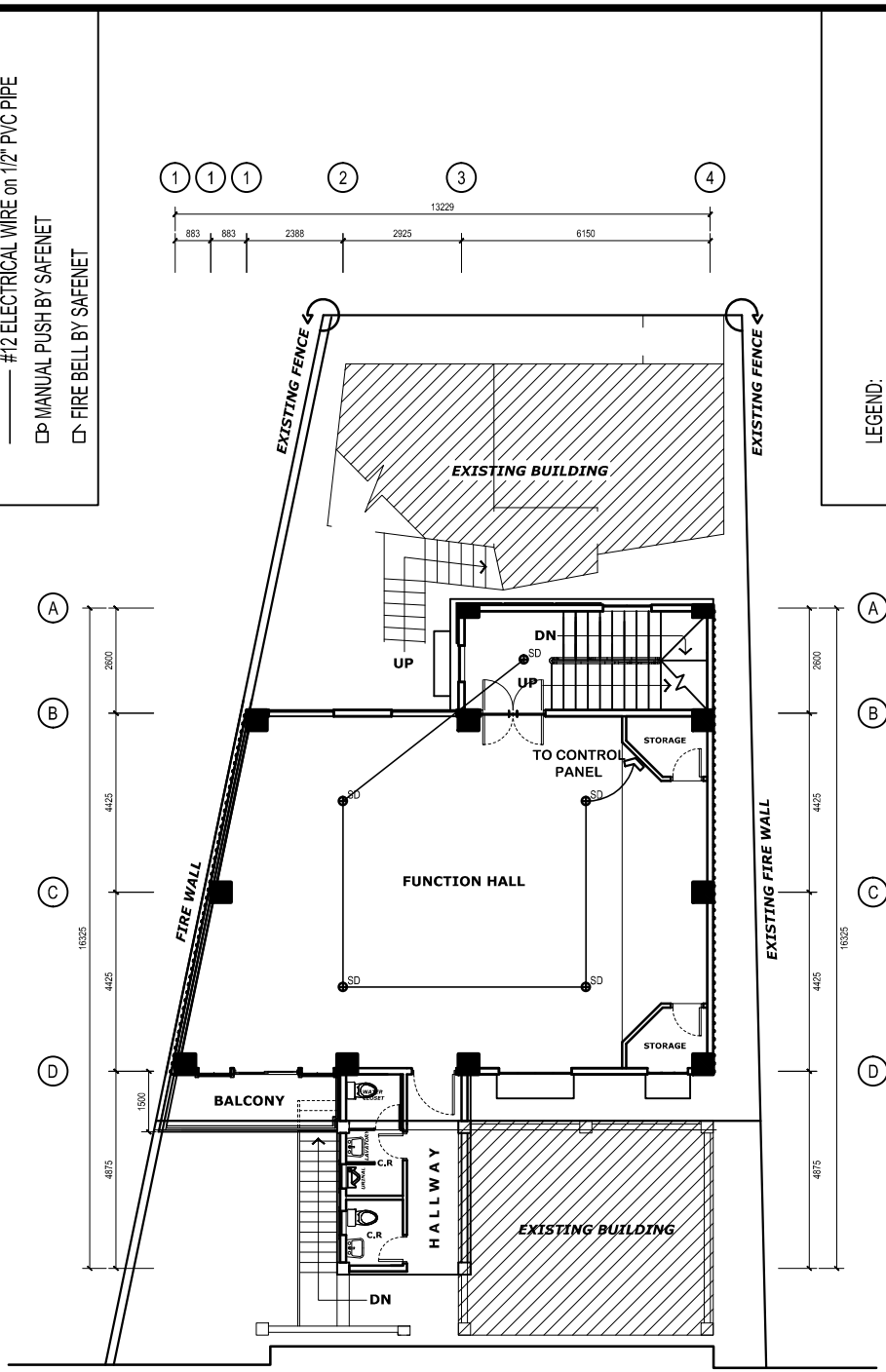
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SHEET CONTENT
AS SHOWN

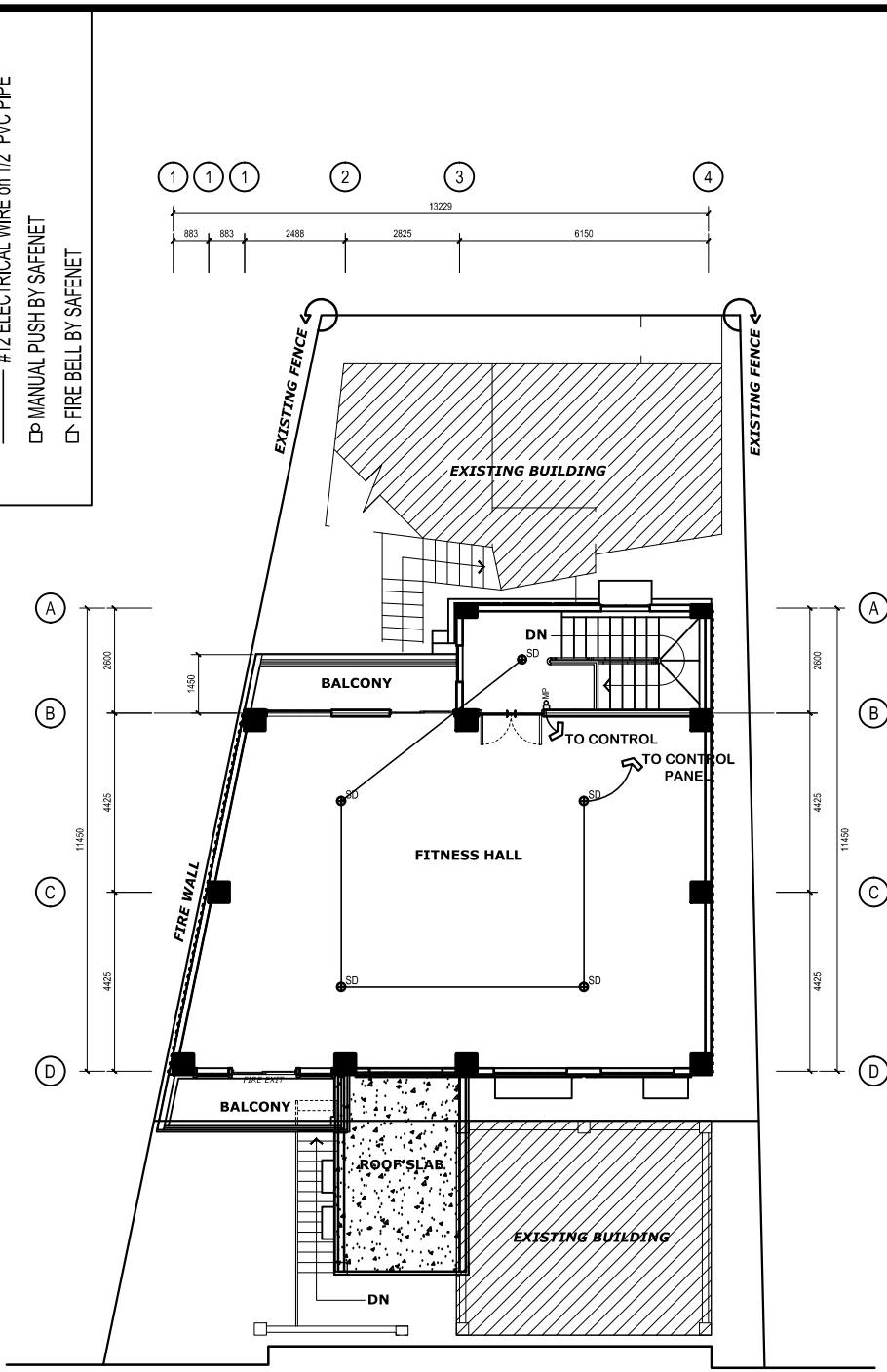
DRAWING NO.
FP-1
SHEET NO.
19/20



LEGEND:
 ⊕ SMOKE DETECTOR BY SAFENET
 — #12 ELECTRICAL WIRE ON 1/2" PVC PIPE
 □ MANUAL PUSH BY SAFENET
 □ FIRE BELL BY SAFENET



LEGEND:
 ⊕ SMOKE DETECTOR BY SAFENET
 — #12 ELECTRICAL WIRE ON 1/2" PVC PIPE
 □ MANUAL PUSH BY SAFENET
 □ FIRE BELL BY SAFENET



Ground Floor Smoke Detector Layout
 Scale: 1:1000 mm

2nd Floor Smoke Detector Layout
 Scale: 1:1000 mm

3rd Floor Smoke Detector Layout
 Scale: 1:1000 mm



**BBB JR DESIGN,
 BUILD AND SUPPLY**

PRC REG. No. :	PTR No. :	PRC REG. No. :	PTR No. :
TIN :	ISSUED AT :	TIN :	ISSUED AT :
	ISSUED ON :		ISSUED ON :

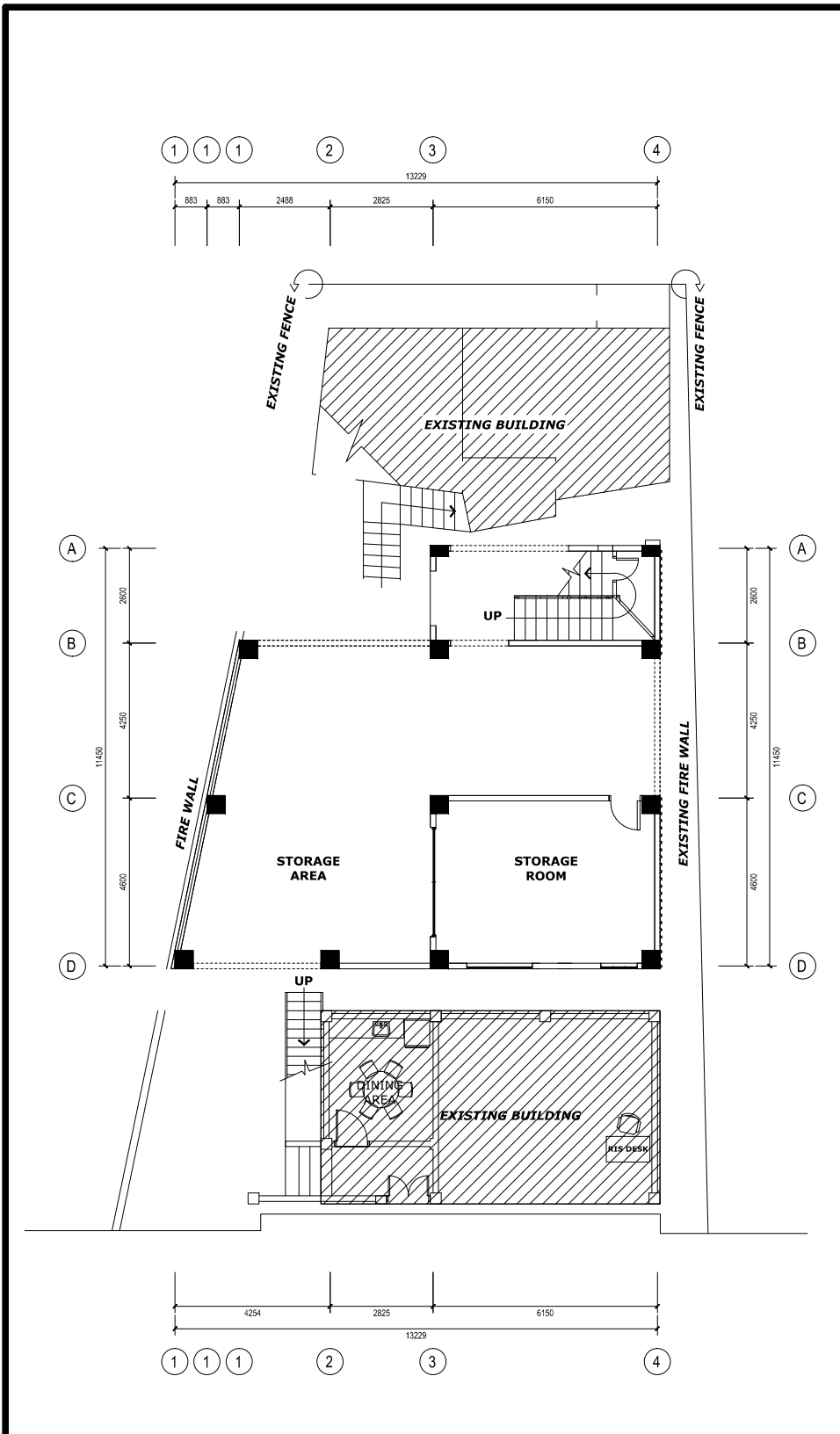
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 OWNER : **METRO VIGAN WATER DISTRICT**
 LOCATION : **SOLID WEST, VIGAN CITY, ILOCOS SUR**

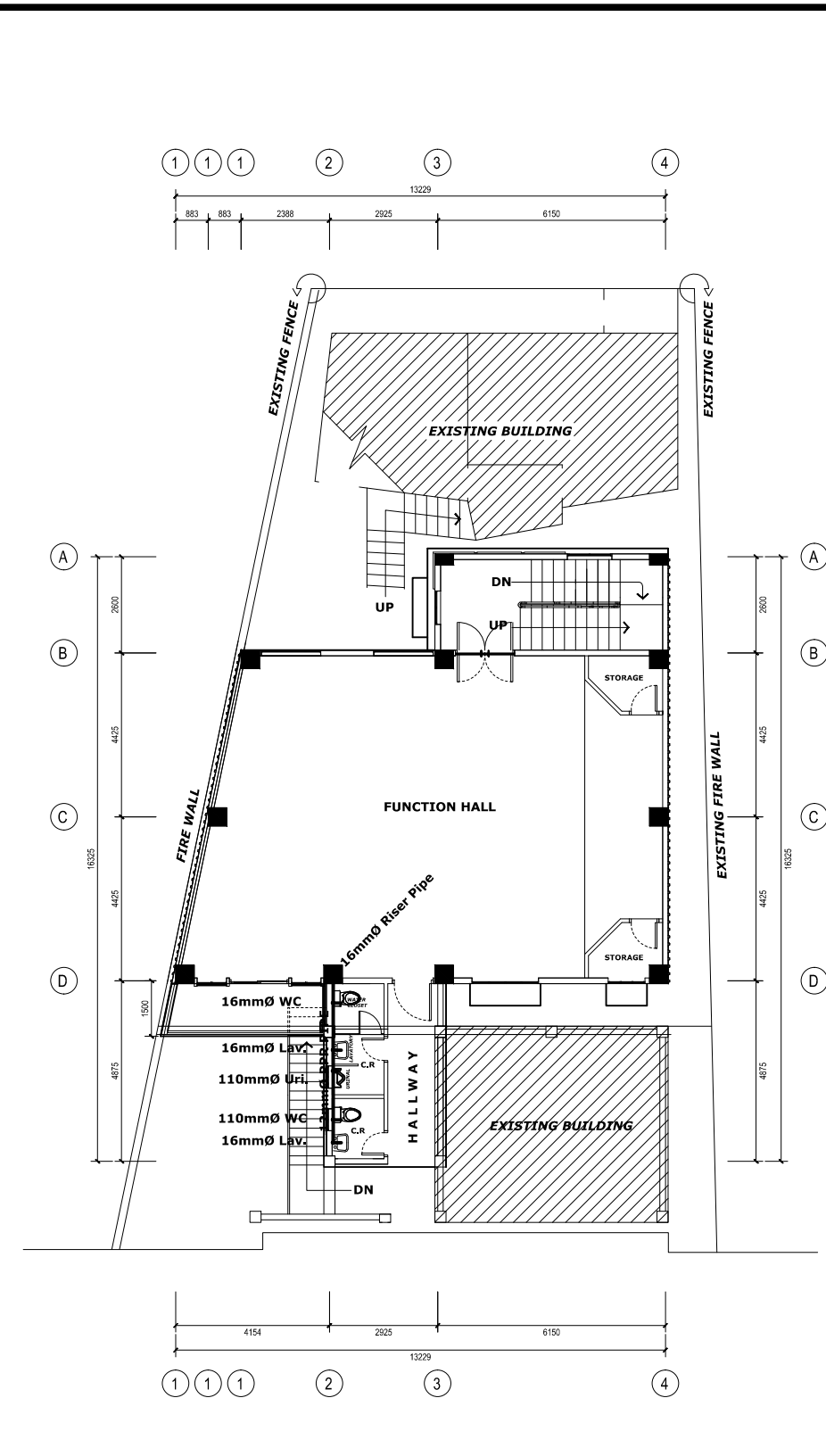
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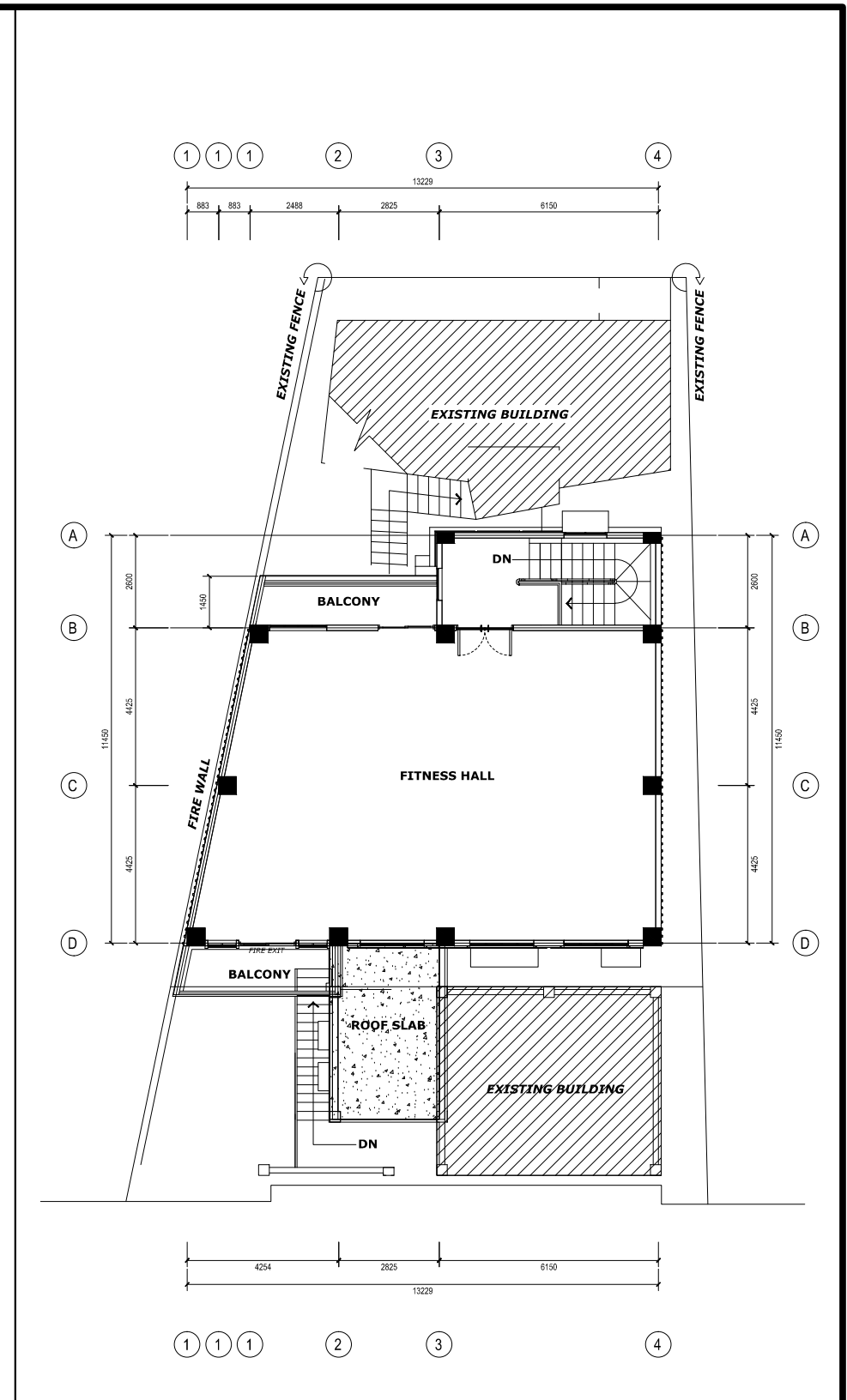
DRAWING NO.
FP-2
 SHEET NO.
20/20



Ground Floor Water Line Layout
Scale: 1:1000 mm



2nd Floor Water Line Layout
Scale: 1:1000 mm



3rd Floor Water Line Layout
Scale: 1:1000 mm



**BBB JR DESIGN,
BUILD AND SUPPLY**

SANITARY ENGINEER	
PRC REG. No.:	PTR No.:
TIN:	ISSUED AT:
	ISSUED ON:

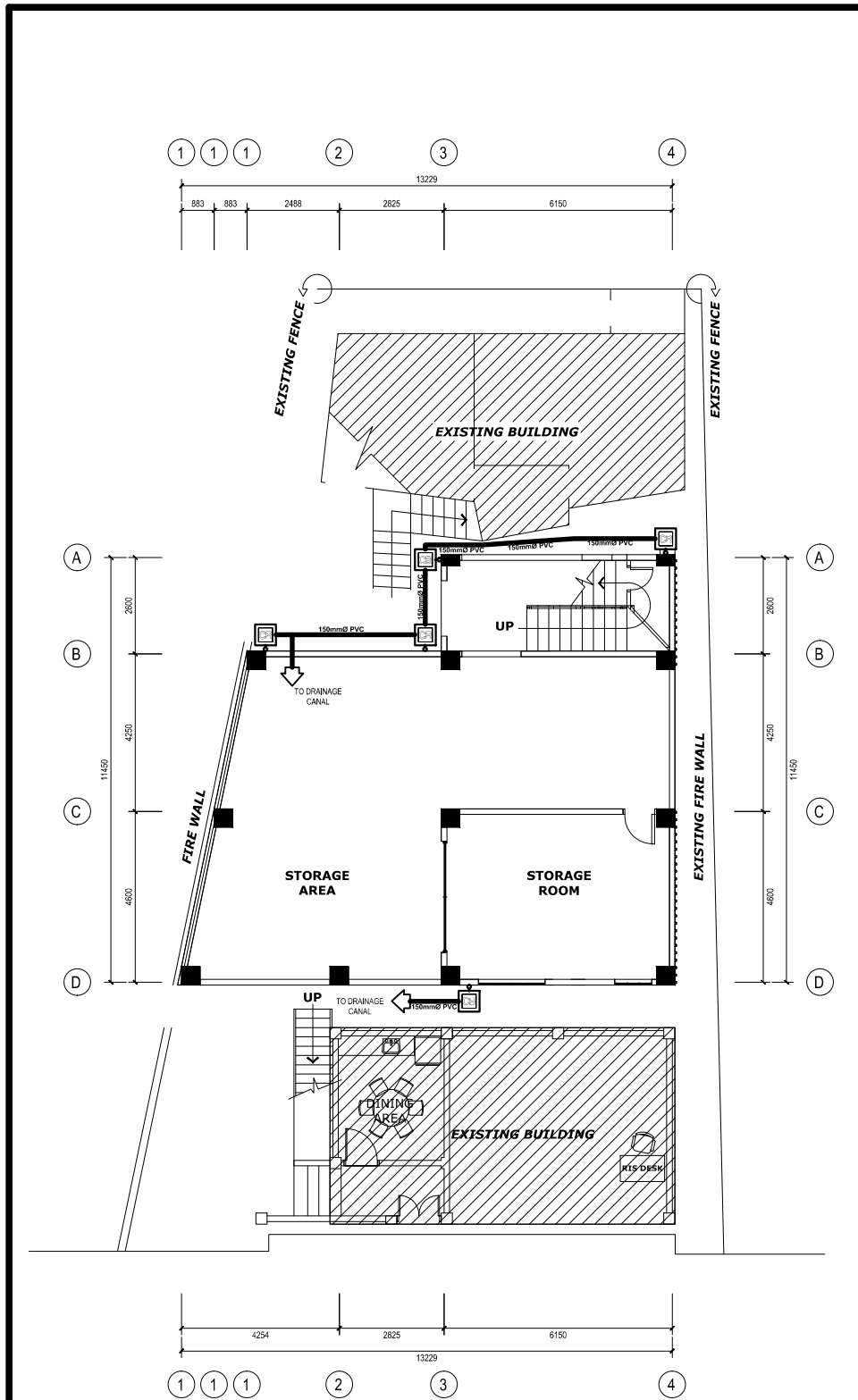
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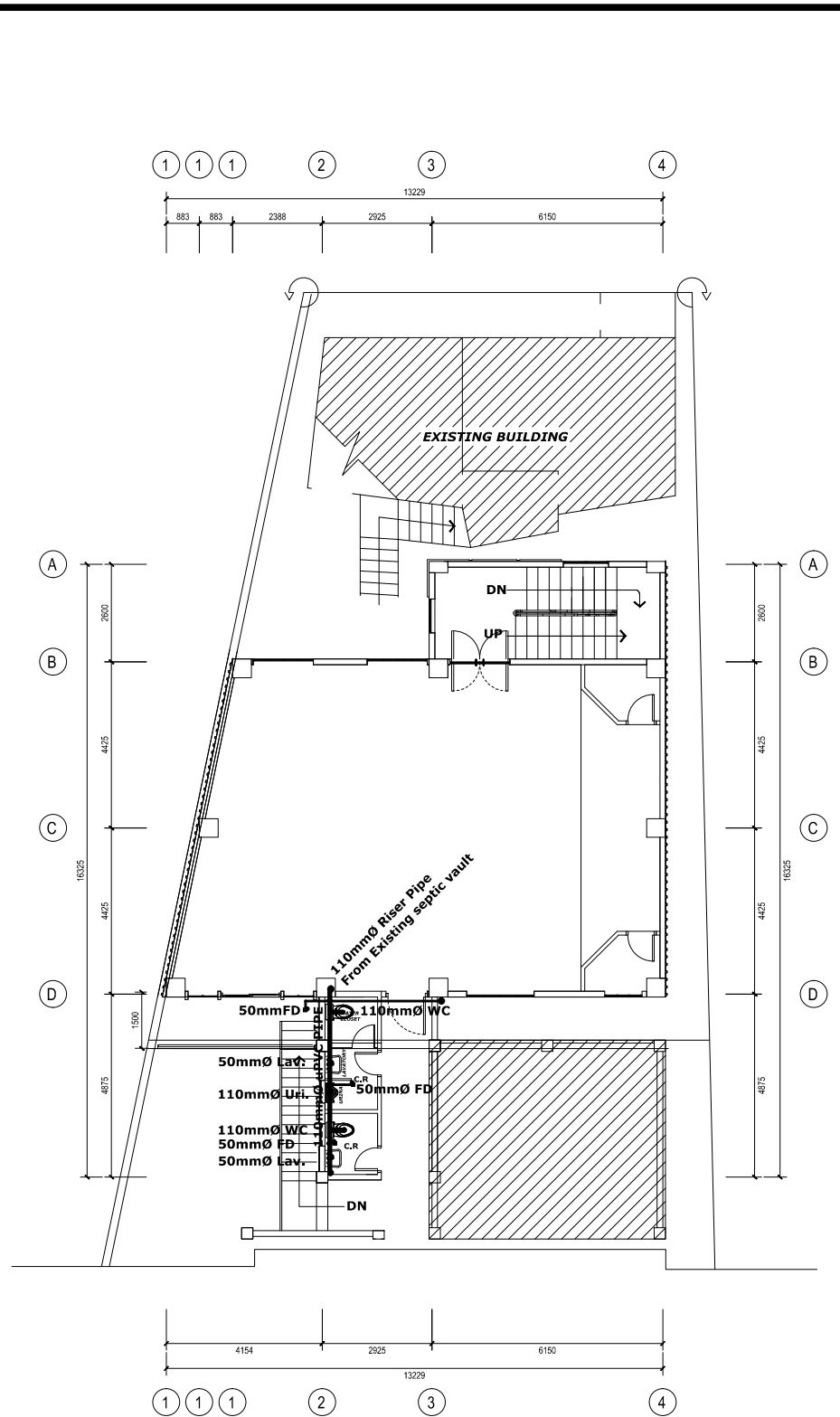
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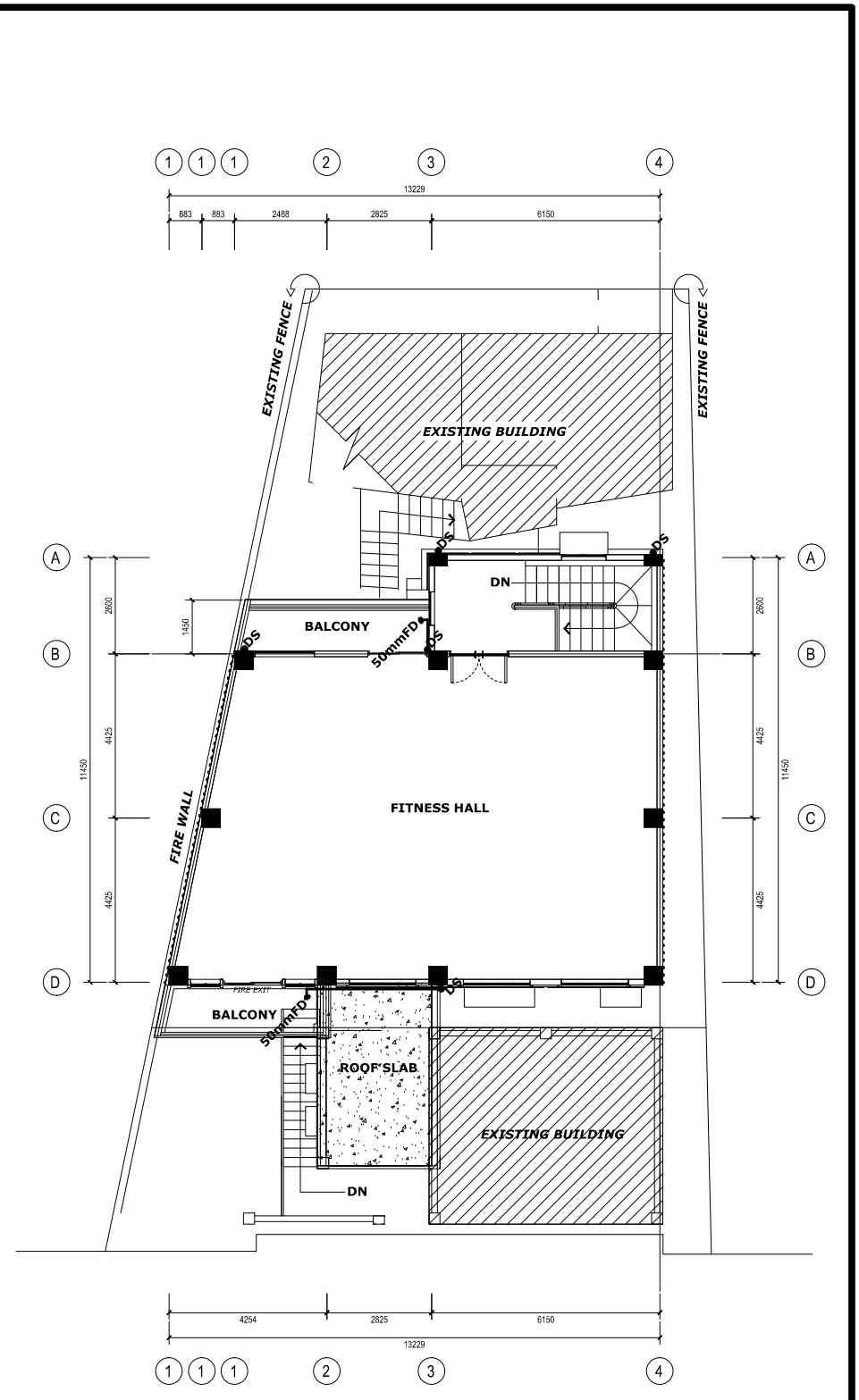
DRAWING NO. P-1
SHEET NO. 13/20



Ground Floor Sewer Line Layout
Scale: 1:1000 mm



2nd Floor Sewer Line Layout
Scale: 1:1000 mm



3rd Sewer Line Layout
Scale: 1:1000 mm



**BBB JR DESIGN,
BUILD AND SUPPLY**

SANITARY ENGINEER	
PRC REG. No.:	PTR No.:
TIN:	ISSUED AT:
	ISSUED ON:

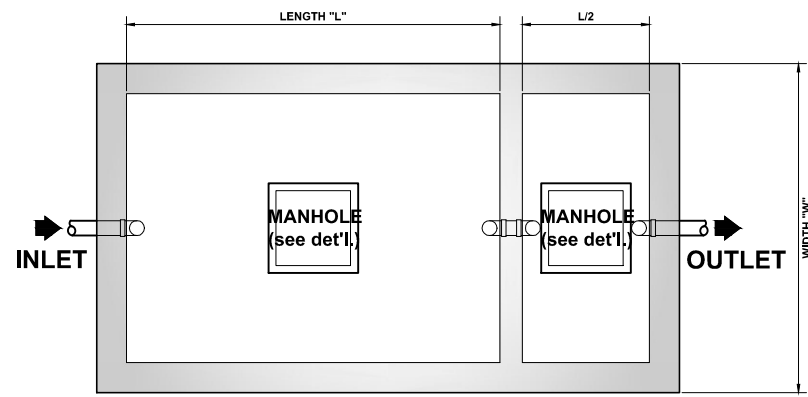
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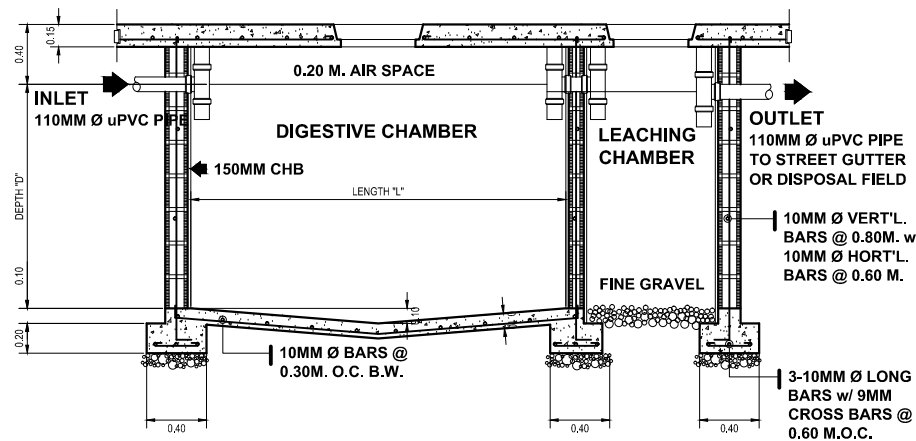
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SHEET CONTENT AS SHOWN

DRAWING NO. P-2
SHEET NO. 14/20



PLAN DETAILS

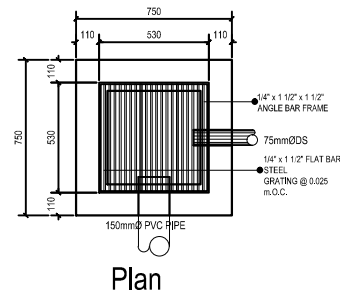


SECTION DETAILS

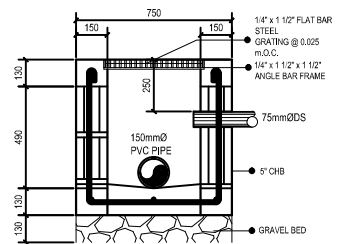
SEPTIC TANK PLAN & SECTION DETAILS

NUMBER OF PERSON	DEPTH "D" METERS	WIDTH "W" METERS	LENGTH "L" METERS
10 PERSONS	1.20	0.90	1.80
15 PERSONS	1.20	1.10	2.20
20 PERSONS	1.20	1.25	2.50
25 PERSONS	1.20	1.40	2.80
▶ 30 PERSONS ◀	▶ 1.30 ◀	▶ 1.50 ◀	▶ 3.00 ◀
35 PERSONS	1.30	1.60	3.20
40 PERSONS	1.40	1.65	3.30
45 PERSONS	1.40	1.75	3.50
50 PERSONS	1.50	1.75	3.50

DATA ON SEPTIC TANK

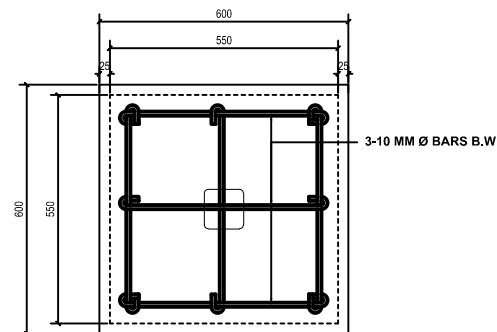


Plan

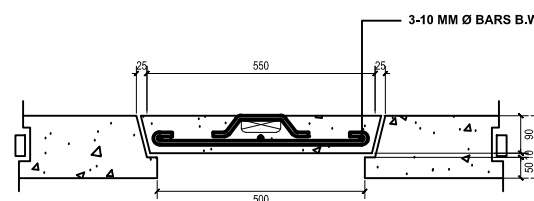


Section

CATCH BASIN DETAILS
SCALE 1:200mm



Plan



Section

MANHOLE COVER DETAILS
SCALE 1:100mm

VSTR VENT STACK PIPE THRU ROOF	CP CONCRETE PIPE
BT BATHTUB	FCO FLOOR CLEAN OUT
HB HOSE BIBB	UPVC UNPLASTICIZED POLYVINYL CHLORIDE
CO CLEAN OUT FERRULE	DS DOWN SPOUT
KS KITCHEN SINK	FD FLOOR DRAIN
GIP GALVANIZED WROUGHT IRON PIPE	WC WATER CLOSET
URI URINAL	VTR VENT PIPE THRU ROOF
SS SLOP SINK	FAU G.I. FAUCET
LAV LAVATORY	PERF PERFORATED
SHO SHOWER HEAD	CB CATCH BASIN
ACC AIR CAP CHAMBER	BD BIDET
SSP SOIL STACK PIPE	RED REDUCER
PVC POLYVINYL CHLORIDE	BV BALL VALVE
WCO WALL CLEAN OUT	LS LAUNDRY SINK

PLUMBING LEGENDS & SYMBOLS

- SEPTIC TANKS ARE NO LONGER ALLOWED IN THE CITY OR TOWN WHERE NEW SANITARY SEWER IS IN USE, HOWEVER THEY MAY STILL HAVE GREAT SERVICE IN SUB-URBAN COMMUNITIES SYSTEM OF SEWAGE DISPOSAL IS IN FUNCTION BUT WHERE SEWER IS NOT AVAILABLE.
- SEPTIC TANK SHOULD NOT BE LOCATED OR ERECTED WITHIN OR UNDER THE HOUSE.
- SEPTIC TANK SHOULD BE BUILT WATERTIGHT OF CONCRETE, STONE OR BRICKS.
- SEPTIC TANK SHOULD BE BUILT WATERTIGHT OF CONCRETE, STONE OR BRICKS.
COVERS USED AS ENTRY IN CLEANING & REPAIR.
- INLET & OUTLET SHALL BE WELL ARRANGED IN SUCH A WAY THAT NEITHER SLUDGE NOR SCUM BE UNDULLY DISTURBED.
- THE VAULT SHOULD BE VENTED THRU THE SANITARY TEES IN THE OUTLET AND INLET HAVING TOP ENDS SCREENED TO MAKE THE TANK MOSQUITO FREE.
- THE BOTTOM OF THE TANK SHOULD SLOPE AT LEAST 100 mm. TOWARDS THE MANHOLE IN THE CENTER TO MAKE CLEANING EASILY.
- A MINIMUM OF 300 mm. SHOULD BE LEFT AS AIR SPACE BETWEEN THE TOP OF THE SEWAGE AND UNDER THE TANK COVER.

GENERAL PLUMBING NOTES



**BBB JR DESIGN,
BUILD AND SUPPLY**

SANITARY ENGINEER	
PRC REG. No.:	PTR No.:
TIN:	ISSUED AT:
	ISSUED ON:

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PROJECT TITLE : METRO VIGAN WATER DISTRICT OFFICE EXTENSION
OWNER : METRO VIGAN WATER DISTRICT
LOCATION : SOLID WEST, VIGAN CITY, ILOCOS SUR

DRAWN/C.A.D BY Arthur C. Uganiza Jr.
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SHEET CONTENT AS SHOWN

DRAWING NO. P-3
SHEET NO. 15/20

CONSTRUCTION NOTES

A. GENERAL NOTES:

- IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- THE CONTRACTOR SHALL COORDINATE WITH THE AR, ME, SE, EE, AND OTHER UTILITIES AND EQUIPMENT PLANS FOR THE EXACT SIZE, NUMBER AND LOCATIONS OF ALL SLEEVES OR OPENINGS THRU FLOOR SLABS, BEAMS AND WALLS AND ALSO BUILDING DIMENSIONS.
- ALL REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI - 318 - 08 BUILDING CODE, AND ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS (LATEST EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENTS.
- ALL SLABS, BEAMS, GIRDERS AND OTHER STRUCTURAL ELEMENTS WHICH ARE NOT INDICATED, DETAILED, DESIGNATED OR INADVERTENTLY OMITTED BUT ARE NECESSARY TO BE COORDINATED WITH ARCHITECTURAL AND OTHER ALLIED ENGINEERING PLANS AS WELL AS TO COMPLETE THE STRUCTURAL WORKS IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT UP DURING PRE-BIDS/MEETINGS/ NEGOTIATIONS, IT IS UNDERSTOOD THAT THE CONTRACTOR HAS PROVIDED AND INCLUDED ALL THESE ITEMS IN THEIR BID.

B. NOTES ON CONCRETE MIXES AND PLACING

- UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE SPECIFICATIONS THE MINIMUM 28-DAYS CYLINDER COMPRESSIVE STRENGTH OF CONCRETE f_c , SHALL BE AS FOLLOWS:

1.1 FOOTINGS	21.0 Mpa. (3000 psi)
1.2 COLUMNS	21.0 Mpa. (3000 psi)
1.3 BEAMS, GIRDERS, SLABS	21.0 Mpa. (3000 psi)
- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, RE-HANDLING OR FLOWING. PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEEL BARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEEL BARROWS OR BUCKETS, IN WHICH CASE, THEY SHALL NOT EXCEED SIX THOUSAND (6000mm) IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

C. NOTES ON REINFORCING STEEL BARS

- ALL REINFORCING STEEL BARS SHALL BE NEW BILLET, HOT ROLLED, WELDABLE, DEFORMED BARS CONFORMING TO THE SPECIFICATIONS OF PNS 49: 1986 (ASTM 615) WHOSE GRADE IS SHOWN ON

TABLE 1.

TABLE-1	
GRADE	BAR DIAMETER
GRADE 415 (fy = 60 ksi)	16, 20, 25, 28, 32 & 36 MM
GRADE 275 (fy = 40 ksi)	10 to 12 mm
GRADE 230 (fy = 33 ksi)	SMALLER THAN 10 mm

- THE SUPPLEMENTARY REQUIREMENTS OF WELDABLE DEFORMED REINFORCING BARS SHALL BE AS FOLLOWS:
 - THE MAXIMUM YIELD STRENGTH OF WELDABLE BARS = 540 MPa.
 - THE TENSILE STRENGTH SHALL NOT BE LESS THAN 1.25 TIMES THE ACTUAL YIELD STRENGTH.
- ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS, SECURED IN THE REQUIRED LOCATION IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE BUILDING CODE AND THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI - 315.
- ALL REINFORCING BARS SHALL BE CLEANED THOROUGHLY OF ALL LOOSE RUST, SOIL OR OTHER MATERIAL IMMEDIATELY PRIOR TO PLACING CONCRETE.
- THE REQUIRED LENGTH OF LAP FOR TENSION SPLICES IS BASED ON THE DEVELOPMENT LENGTH, L_d , SHOWN IN TABLE 2 AND TABLE 3 FOR RC BEAMS AND GIRDERS, RESPECTIVELY AND ON THE FOLLOWING CLASSIFICATIONS:

TENSION SPLICE CLASSIFICATION	SPLICE LENGTH
CLASS A	1.0 L_d
CLASS B	1.3 L_d

TABLE-2 DEVELOPMENT LENGTH, L_d , IN TENSION						
BAR SIZE (mm)	$f_c = 21.0$ MPa (3000psi)		$f_c = 28.0$ MPa (4000psi)		$f_c = 34.5$ MPa	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
16	390	300	390	300	390	300
20	750	600	650	500	580	450
25	1110	880	1010	780	910	700
28	1370	1080	1270	980	1140	870
32	1460	1300	1360	1200	1030	930

6. TOP BARS ARE HORIZONTAL BARS WITH AT LEAST 300 mm OF CONCRETE CAST BELOW IT.

TABLE-3 DEVELOPMENT LENGTH, L_d , IN TENSION FOR R.C. GIRDERS (PRISMATIC & NON-PRISMATIC)						
BAR SIZE (mm)	$f_c = 21$ MPa		$f_c = 28$ MPa		$f_c = 35$ MPa	
	TOP BARS (mm)	BOTTOM BARS (mm)	TOP BARS (mm)	BOTTOM BARS (mm)	TOP BARS (mm)	BOTTOM BARS (mm)
16Ø	390	390	390	390	390	390
20Ø	650	650	580	580	580	580
25Ø	1130	1130	1010	1010	910	910
28Ø	1390	1390	1270	1270	1140	1140
32Ø	1860	1860	1660	1660	1480	1480
36Ø	2770	2770	2570	2570	2300	2300

NOTE: FOR BUNDLE BARS (3 BUNDLE) MULTIPLY ABOVE TABLE BY 1.3

- THE REQUIRED LENGTH OF LAP FOR COMPRESSION SPLICES SHALL BE AS SHOWN IN TABLE 4.

TABLE-4 LENGTH OF LAP COMPRESSION SPLICES (mm)			
BAR SIZE (mm)	$f_c = 21.0$ MPa (3000psi)	$f_c = 28.0$ MPa (4000psi)	$f_c = 34.5$ MPa
16	320	320	320
20	600	600	600
25	750	750	750
28	820	820	820
32	950	950	950
36	1050	1050	1050

- A FULL WELDED SPLICES SHALL HAVE BARS BUTTED AND WELDED TO DEVELOP IN TENSION AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH f_y OF THE BAR. (SEE FIGURE 1)

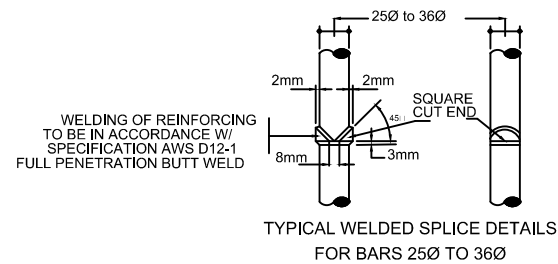


FIGURE 1

- ALL WELDING OF REINFORCEMENT SHALL CONFORM TO THE PROVISIONS OF THE STRUCTURAL WELDING CODE-REINFORCING STEEL, AWS D1.4
- A FULL MECHANICAL CONNECTION (REBAR SPICER) SHALL DEVELOP IN TENSION OR COMPRESSION AS REQUIRED, 125 PERCENT OF THE SPECIFIED YIELD STRENGTH f_y OF THE BAR. IF USED, SUBMITSAMPLE FOR APPROVAL OF THE STRUCTURAL ENGINEER.
- CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS:
 - CONCRETE CAST AGAINST EARTH - 75 mm
 - CONCRETE EXPOSED TO EARTH OR WEATHER- 20 mm TO 36 mm BARS - 50 mm
16 mm BARS AND SMALLER - 40 mm
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER- SLABS, WALLS, JOINTS - 20 mm
BEAMS AND COLUMNS - 40 mm

D. NOTES ON FOUNDATION

- THE FOUNDATION IS DESIGNED FOR ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 144 kPa (3000 psf) AT MINIMUM DEPTH OF 1.50 METERS FROM THE NATURAL GRADE LEVEL.
- NO FOOTING SHALL REST ON FILL. FOOTINGS FOR CHB WALLS AND OTHER MINOR STRUCTURES SHALL BE EMBEDDED AT LEAST 750mm FROM THE NATURAL GRADE LEVEL.
- PROVIDE TEMPORARY REMOVAL OF WATER FROM ANY SOURCE DURING CONSTRUCTION. DEWATERING SHALL BE CAREFULLY AND PROPERLY PERFORMED TO AVOID DISTURBING THE FOUNDATIONS AND SLAB BEARING SURFACES.
- CONTRACTOR SHALL DESIGN, INSTALL AND MONITOR EXCAVATIONS RETENTION SYSTEMS, AS REQUIRED FOR PROTECTION OF ADJACENT PROPERTIES AND PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO MINIMIZE SETTLEMENT AND PREVENT DAMAGE TO ADJACENT EXISTING OR NEW CONSTRUCTION.
- PREPARE CONDITIONS OF CONCRETE SUPPLY AND PLACEMENT OF THE COMPLETE FOUNDATION FOR THE FULL THICKNESS AS A CONTINUOUS MONOLITHIC CASTING.
- DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL GROUND FLOOR SLABS HAVE BEEN PLACED AND THE CONCRETE HAS ATTAINED THE REQUIRED STRENGTH.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELEVATOR DETAILS, REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND OTHER TRADES FOR SUBSOIL DRAINAGE SYSTEM, MACHINERY ANCHORS AND OTHER EMBEDDED ITEMS, DEPRESSIONS, FINISHES, DOWELS FOR MASONRY WALLS, CURBS, ETC
- SEE SEPARATE NOTES ON FOUNDATION FOR TOPICS WHICH WAS NOT INCLUDED HEREIN.

E. NOTES ON SLAB-ON-GRADE

- THE SOIL SUBGRADE AND FILL LAYERS BELOW ALL SLABS ON GRADE, PAVING AND PIT SLABS SHALL BE MECHANICALLY COMPACTED IN LAYERS TO A MINIMUM OF 95 PERCENT OF THE MODIFIED PROCTOR DENSITY PER ASTM D1557.
- ALL SLABS-ON-GRADE SHALL BE PROVIDED WITH A MINIMUM OF 100mm THK. COMPACTED CLEAN GRAVEL BED.
- UNLESS OTHERWISE NOTED, ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm BARS AT 250mm O.C. EACHWAY AT THE CENTER OF SLAB.
- PLACE CONCRETE FOR ALL SLABS-ON-GRADE IN CHECKERBOARD FASHION BETWEEN CONSTRUCTION JOINTS IN AREAS NOT TO EXCEED 300 SQ. METERS WITH A MINIMUM OF 24 HOURS BETWEEN ADJACENT AREAS OF PLACEMENT. CONSTRUCTION JOINTS SHALL NOT BE FARTHER APART THAN 8.00 METERS IN ANY DIRECTION. ALL SLABS ON GRADE SHALL BE SAW CUT ON EACH GRID LINE AND MID BAY LINE (IN BOTH DIRECTIONS) WITHIN 24 HOURS AFTER CASTING.

F. NOTES ON CONCRETE WALLS

- ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS. (REFER TO TABLE-5)

TABLE-5 SCHEDULE OF WALL REINFORCEMENT			
WALL THICKNESS (mm)	REINFORCEMENT		REMARKS
	HORIZONTAL	VERTICAL	
100	10mm at 250 o.c.	10mm at 300 o.c.	HORIZONTAL BAR AT CENTER VERTICAL BAR AT CORNER
125	10mm at 200 o.c.	10mm at 250 o.c.	DITTO
150	12mm at 288 o.c.	12mm at 250 o.c.	DITTO
175	20mm at 250 o.c.e.f.	12mm at 200 o.c.e.f.	DITTO
200	10mm at 288 o.c.e.f.	10mm at 250 o.c.e.f.	BOTH FACE HORIZONTAL SHALL BE 10mm
225	12mm at 200 o.c.e.f.	12mm at 228 o.c.e.f.	DITTO
250	12mm at 250 o.c.e.f.	12mm at 300 o.c.e.f.	DITTO
275	12mm at 228 o.c.e.f.	12mm at 250 o.c.e.f.	DITTO
300	12mm at 200 o.c.e.f.	12mm at 250 o.c.e.f.	DITTO
350	12mm at 180 o.c.e.f.	12mm at 200 o.c.e.f.	DITTO
400	16mm at 330 o.c.e.f.	16mm at 355 o.c.e.f.	DITTO

- REINFORCING BARS SHALL HAVE 25mm MINIMUM CLEAR DISTANCE FROM WALL FACE EXCEPT FOR WALLS DEPOSITED AGAINST THE GROUND WHERE A MINIMUM OF 63mm SHALL BE PROVIDED AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm, CLEAR FOR BARS LARGER THAN 16mm, AND 38mm FOR 16mm BARS OR SMALLER.
- CARRY VERTICAL BARS AT LEAST 600mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY. STOP AT 50mm BELOW TOP OF THE SLAB OR SOLID BAND WHERE THE WALLS END. HORIZONTAL AND VERTICAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 40 DIAMETER AND WIRED SECURELY WITH NO. 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1520mm ON CENTER. (SEE FIGURE 3)

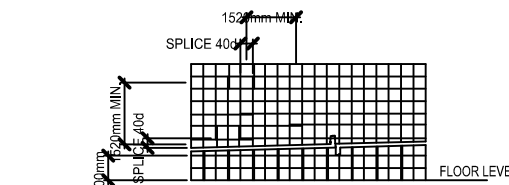
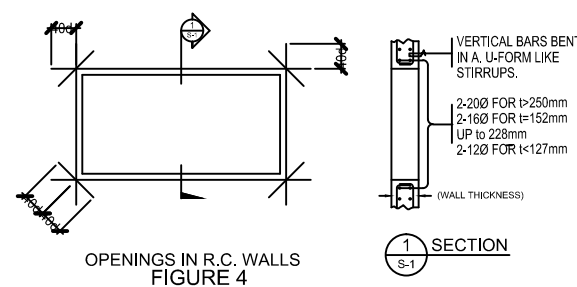


FIGURE 3

- UNLESS OTHERWISE NOTED IN THE PLANS ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mm BARS, FOR 225mm-, 200mm-, 175mm-, 150mm THICK WALLS, USE 2-16mm BARS. FOR 125mm THICK WALLS, USE 2-12mm BARS. (SEE FIGURE 4)
- ALL WALLS OPENING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED. (REFER TO SECTION 1 ON FIGURE 4)
ALL CONCRETE WORKS SHALL BE REINFORCED WITH BARS OF AREA AT LEAST EQUAL TO THAT SPECIFIED IN ACI 318-89 BUILDING CODE.



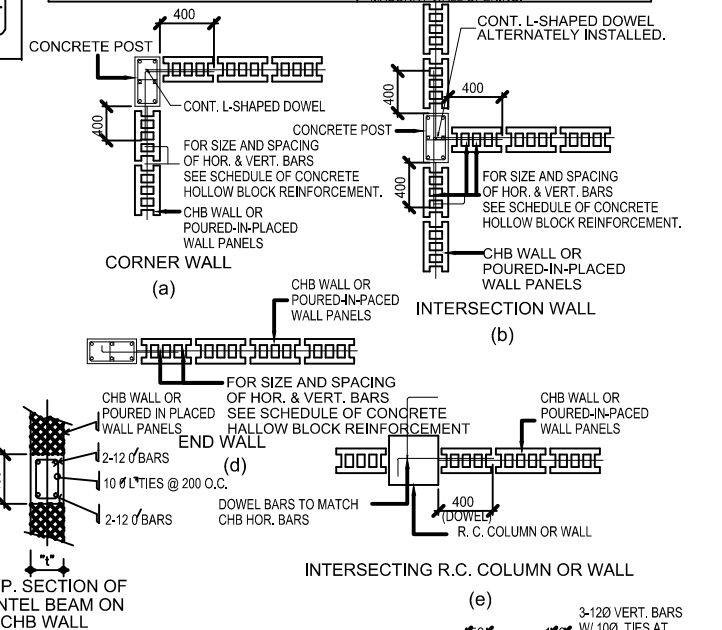
OPENINGS IN R.C. WALLS FIGURE 4

G. NOTES ON MASONRY WALLS

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND UNIFORM BUILDING CODE.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N.
- MORTAR AND GROUT FOR ALL REINFORCED MASONRY SHALL CONFORM TO ASTM 270-TYPE M AND SHALL HAVE A MINIMUM 28-DAYS STANDARD CYLINDER COMPRESSIVE OF 21 MPa
- ALL MASONRY WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF CONCRETE HOLLOW BLOCK REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.
- ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT (3000 PSI)

- FOR TYPICAL CONNECTION DETAILS ON MASONRY UNITS, REFER TO FIGURES 5, 6 & 7 RESPECTIVELY.

TABLE-6 SCHEDULE OF CONCRETE HOLLOW BLOCK REINFORCEMENT			
BLOCK THICKNESS (mm)	REINFORCEMENT		NOTE
	HORIZONTAL	VERTICAL	
100	10Ø @ 600mm o.c.	10mm at 400mm O.C.	A. MINIMUM LAP SPLICES = 3Ø DIA. B. PROVIDE 1-16Ø VERTICAL BAR @ CORNERS, INTERSECTIONS, END OF WALLS, AND EACH SIDE OF OPENING. C. WHERE CHB WALLS ADJOIN COLUMNS & BEAMS & WALLS DOWELS WITH THE SAME SIZE AS VERTICAL OR HORIZONTAL REINFORCEMENT SHALL BE PROVIDED. D. LINTEL BEAMS SHALL BEAR AT LEAST 16 INCHES (400 mm) ON EACH SIDE OF MASONRY WALL OPENING.
150	12Ø @ 600mm o.c.	12mm at 400mm O.C.	
200	12Ø @ 600mm o.c.	12mm at 400mm O.C.	



TYPICAL CONNECTION DETAILS OF CONCRETE MASONRY UNITS AT COLUMN AND/OR WALLS FIGURE 5

TYPICAL DETAIL OF 100 & 150 CHB CONCRETE POSTS FIGURE 6

TYPICAL DETAIL OF 100 & 150 LINTEL BEAMS AND TYPICAL DETAILS AT DOOR OPENING FIGURE 7



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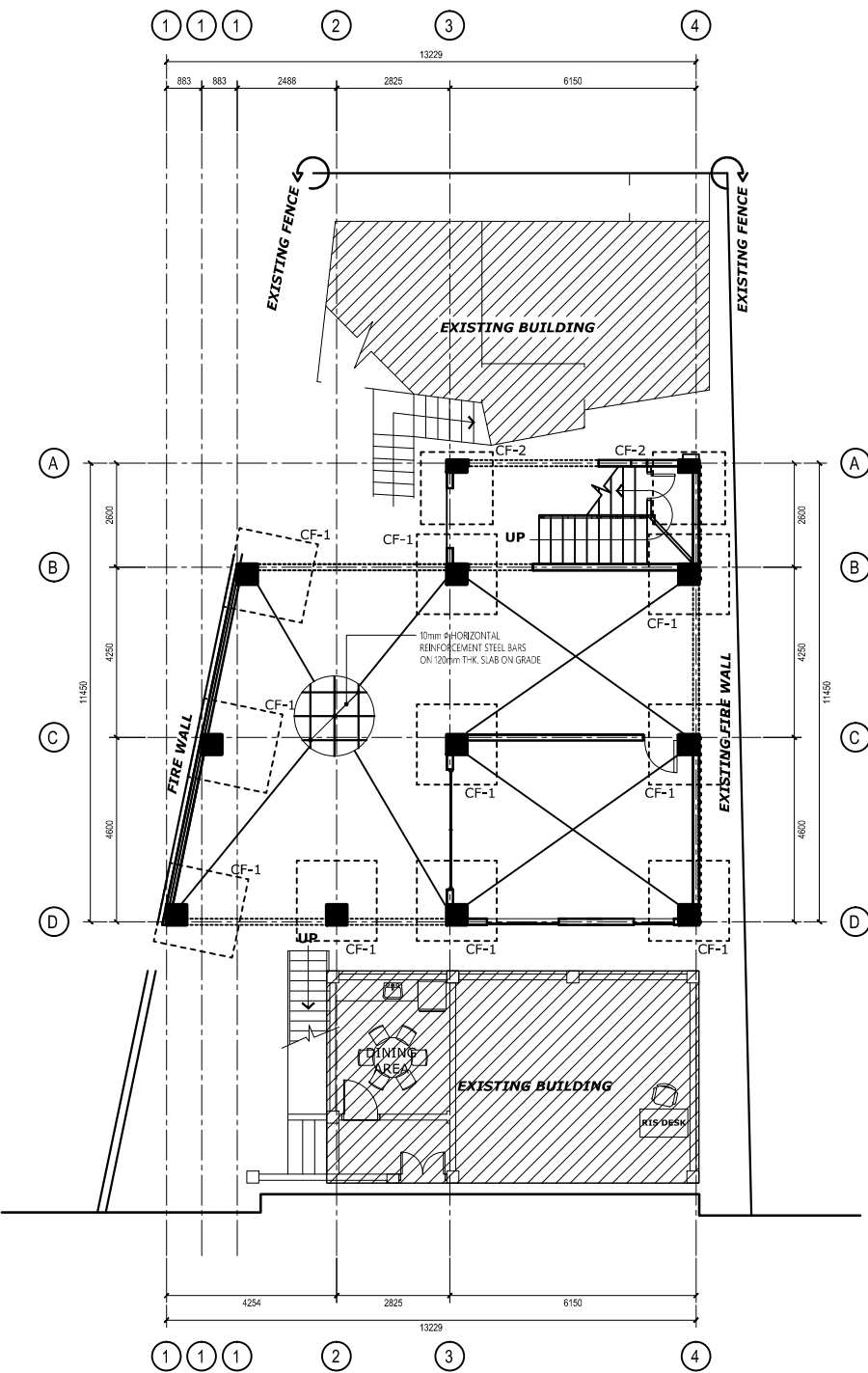
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OWNER : **METRO VIGAN WATER DISTRICT**
LOCATION : **SOLID WEST, VIGAN CITY, ILOCOS SUR**

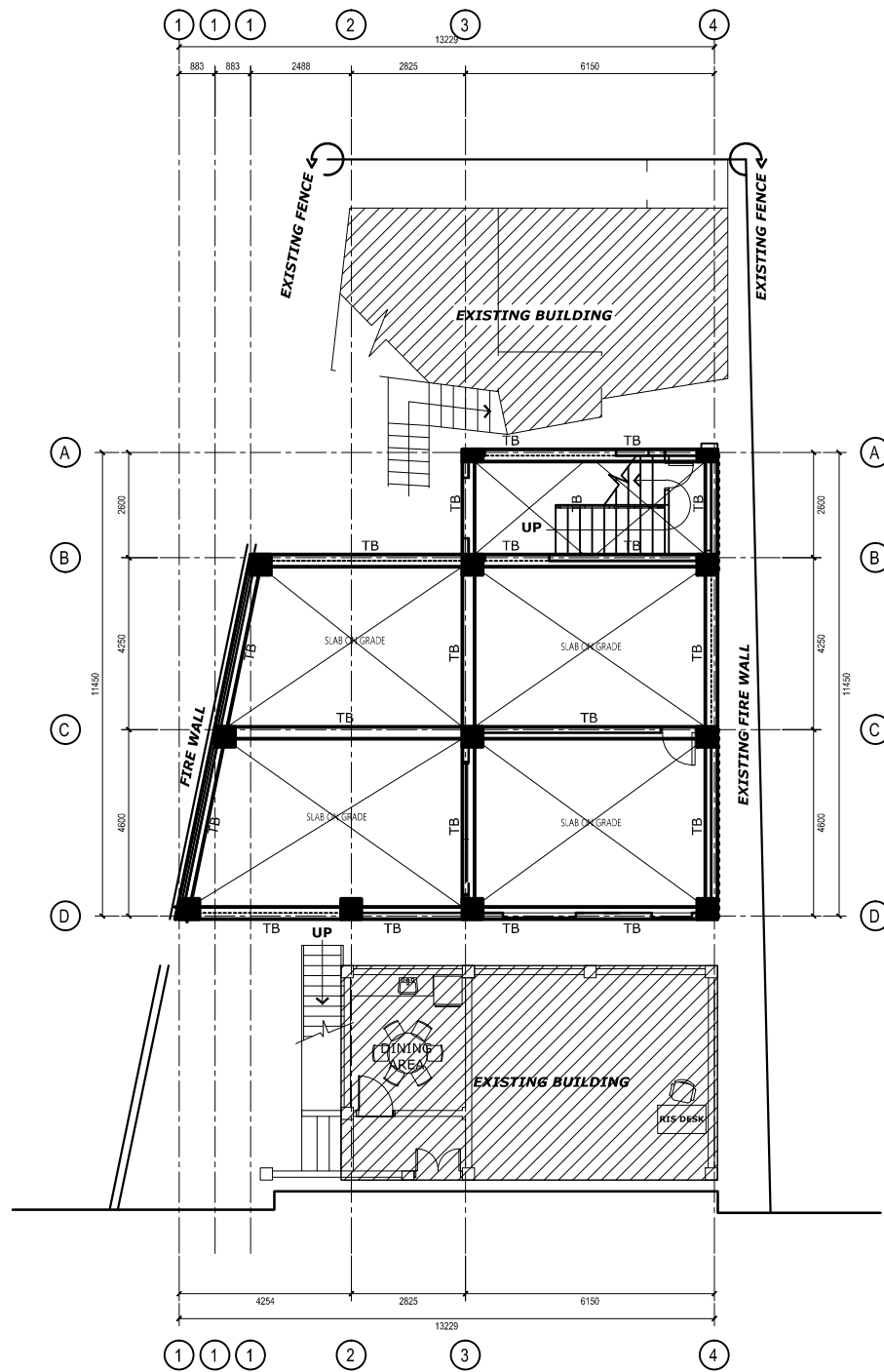
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SHEET NO.
07/20



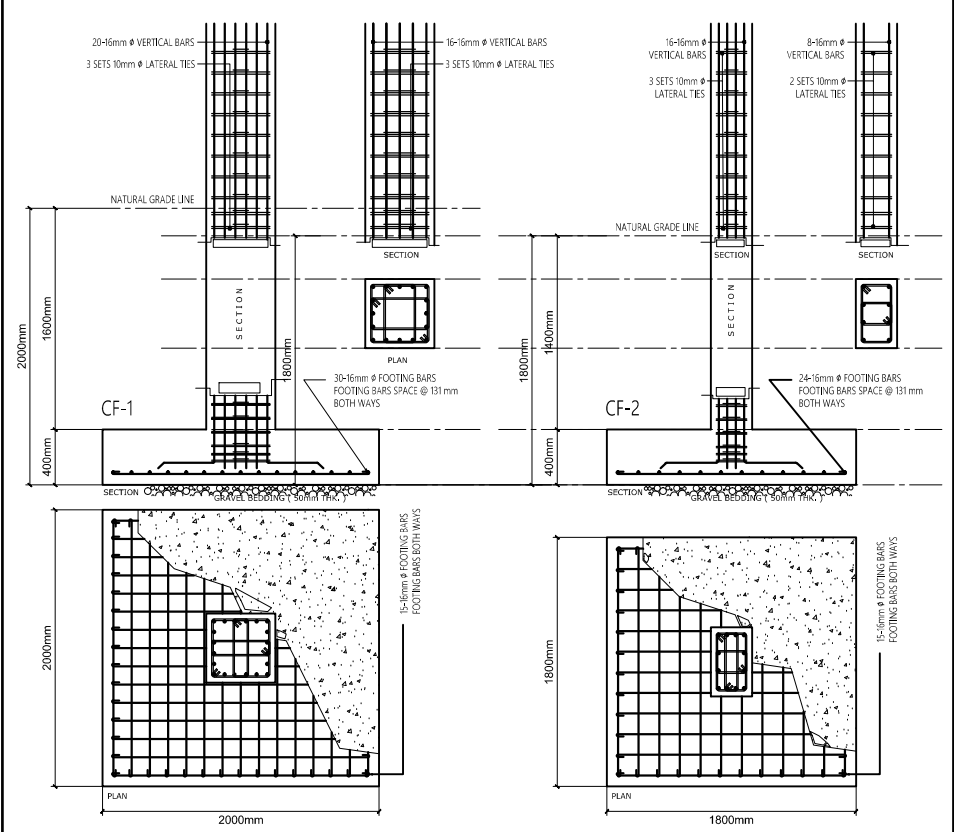
Foundation Plan
Scale: 1:1000 mm



Tie Beam Plan
Scale: 1:1000 mm

Mark	C1	C2	C3	C4	C5
Level / Floor					
GROUND FLOOR	500mm 	500mm 	500mm 		300mm
TO					
FOUNDATION	SIZE 500 x 500 REBARS 20-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm	SIZE 500 x 500 REBARS 20-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm	SIZE 500 x 500 REBARS 16-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm		SIZE 300 x 500 REBARS 12-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm
GROUND FLOOR	500mm 	500mm 	500mm 		300mm
TO					
FOUNDATION	SIZE 500 x 500 REBARS 20-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm	SIZE 500 x 500 REBARS 20-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm	SIZE 500 x 500 REBARS 16-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm		SIZE 300 x 500 REBARS 12-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm
SECOND FLOOR	500mm 	500mm 	500mm 	500mm 	300mm
TO					
FOUNDATION	SIZE 500 x 500 REBARS 20-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm	SIZE 500 x 500 REBARS 20-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm	SIZE 500 x 500 REBARS 16-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm	SIZE 500 x 500 REBARS 20-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm	SIZE 300 x 500 REBARS 12-16mm Ø 1b: 3-set 10mmØ @100mm 1v: 3-set 10mmØ @150mm

Schedule of columns
Scale: 1:300 mm



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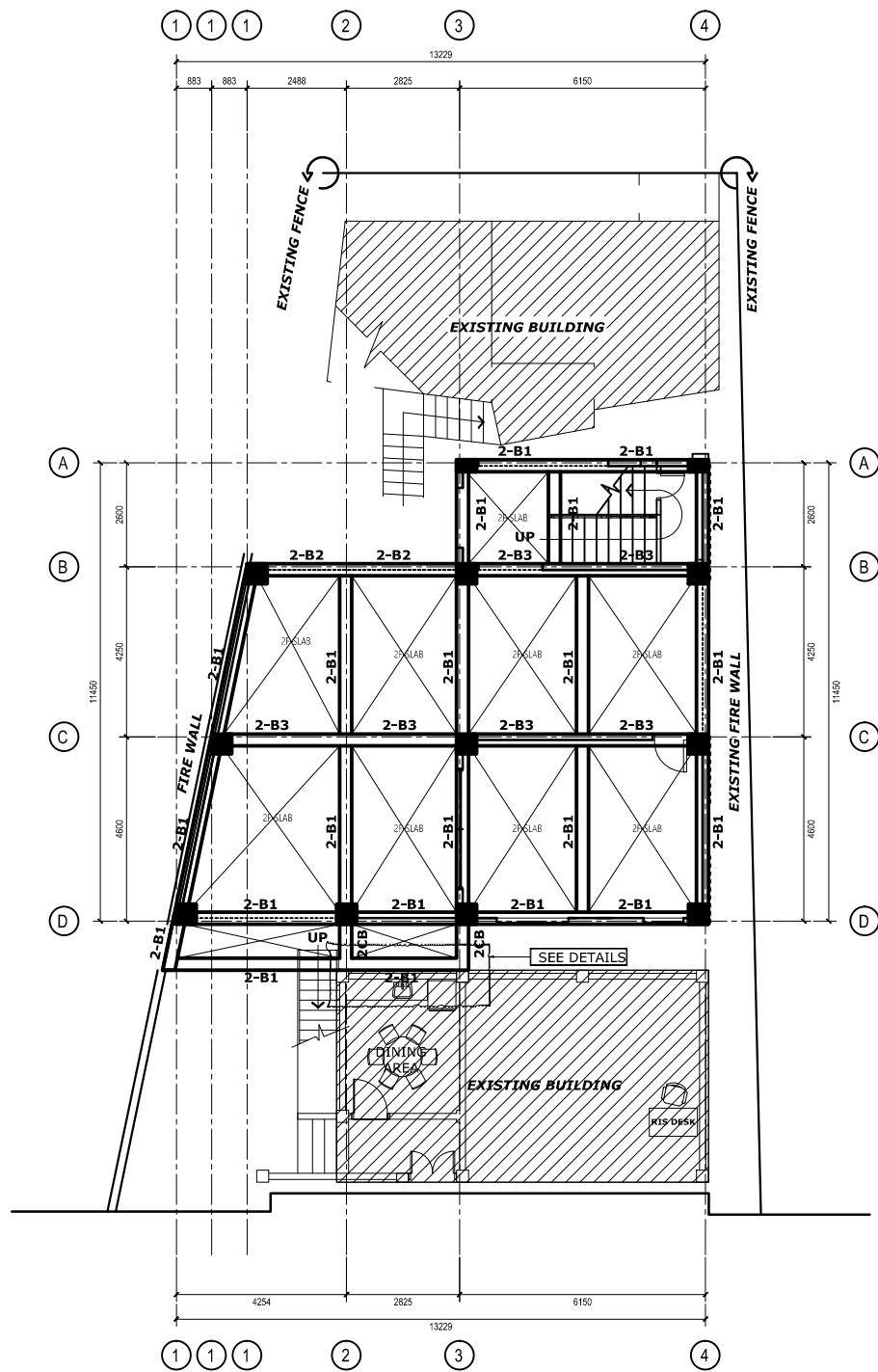
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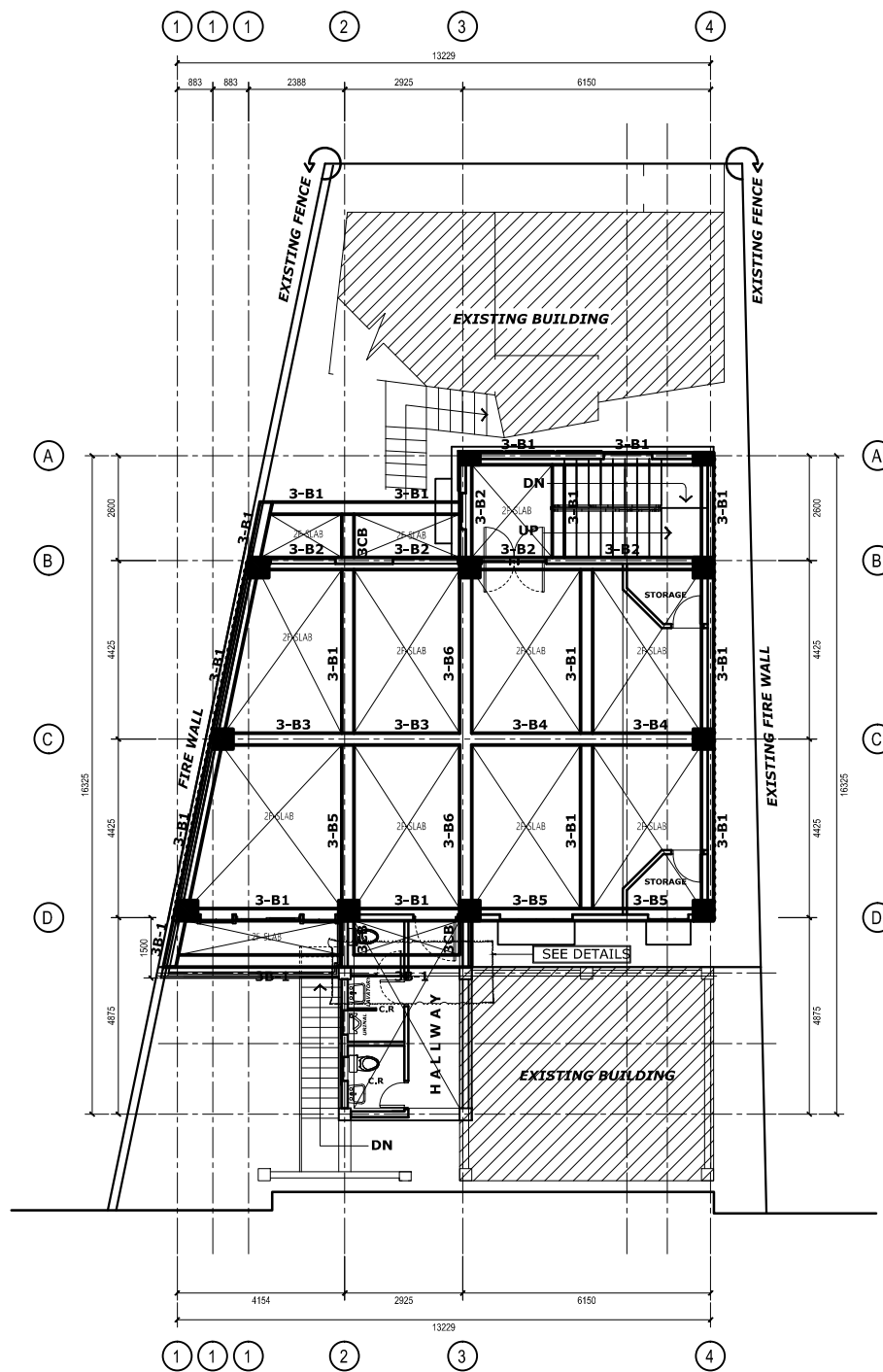
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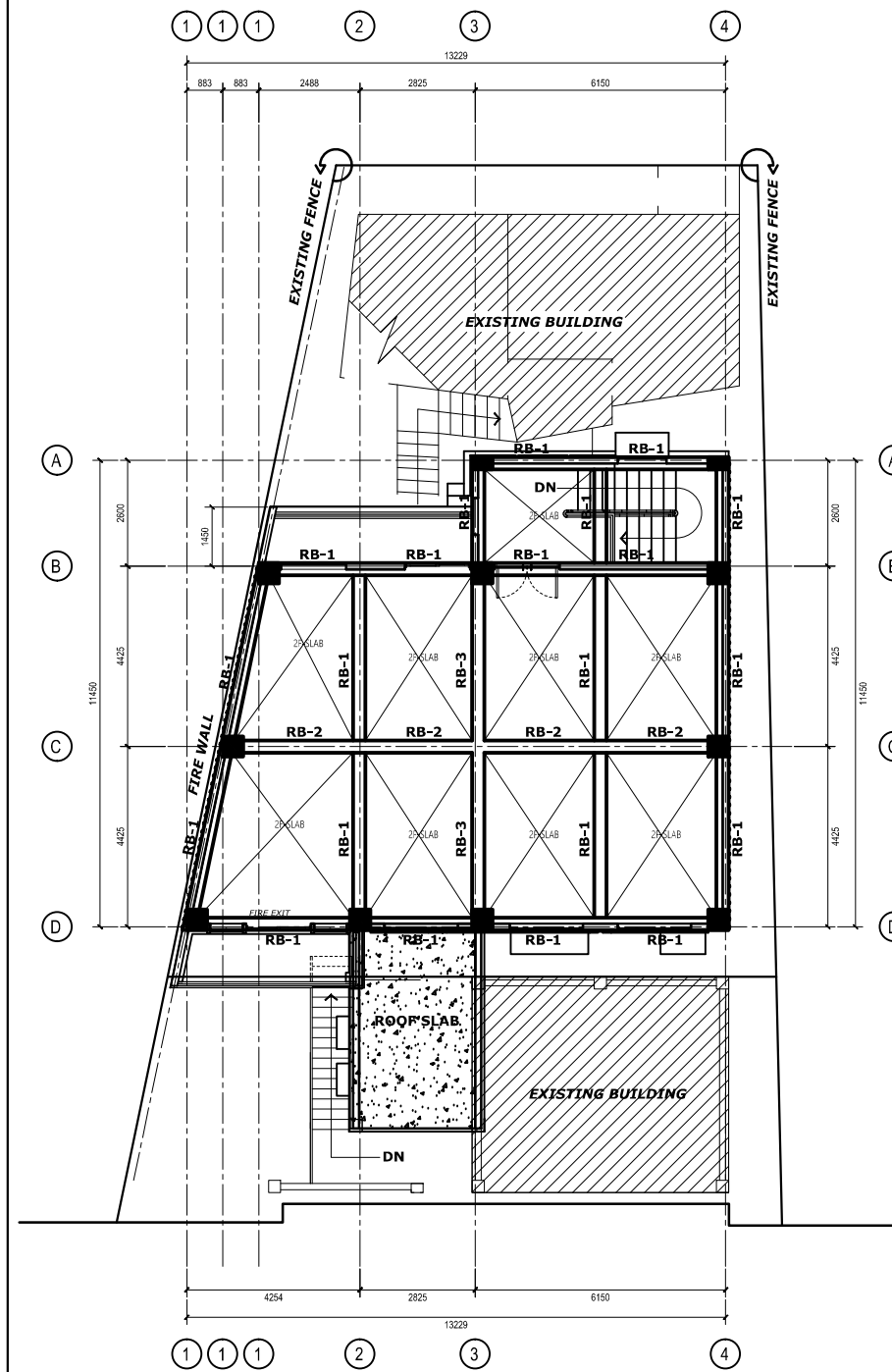
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Second Floor Framing
Scale: 1:1000 mm



Third Floor Framing Plan
Scale: 1:1000 mm



Roof Beam Plan
Scale: 1:1000 mm



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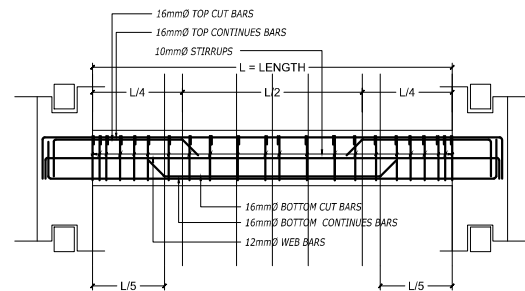
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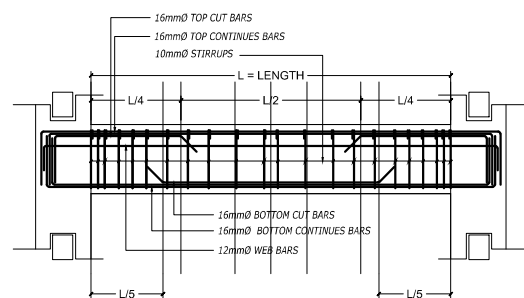
BEAM SCHEDULE	TB1	TB2
BEAM PLAN SECTION		
SIZE	300 x 400	300 x 400
REBARS	6-16mm Ø Main Bars 2-12mm Ø Web Bars	6-16mm Ø Main Bars 2-12mm Ø Web Bars
STIRRUPS SIZE	10mm Ø RSB	10mm Ø RSB
STIRRUP SPACING	3@50mm 3@100mm	3@50mm 3@100mm



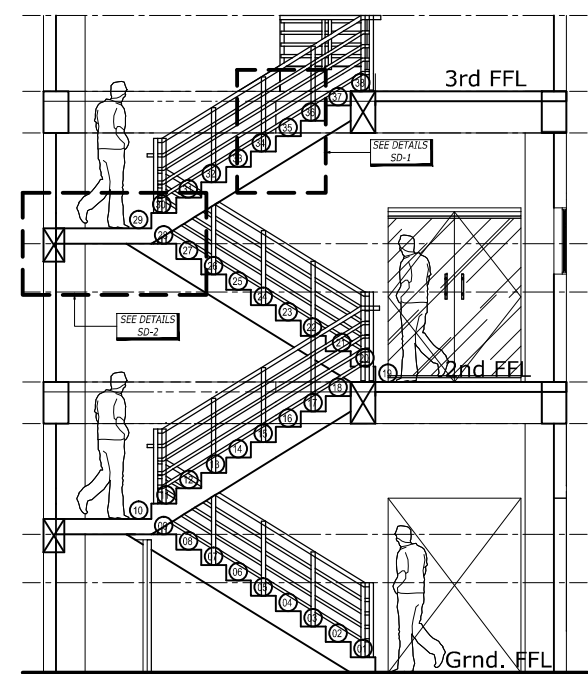
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Schedule of Beams (Ground floor)
Scale: 1:300 mm

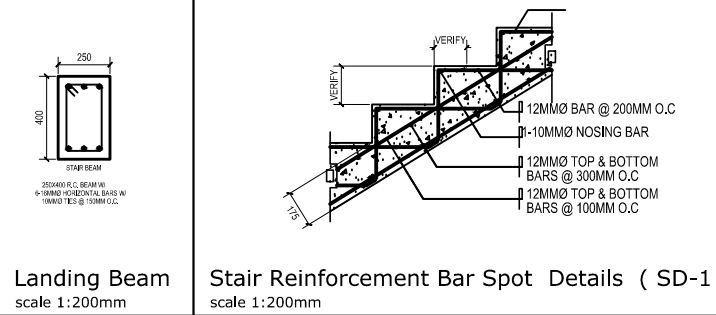
BEAM SCHEDULE	2-B1	2-B2	2-B3	2-CB
BEAM PLAN SECTION				
SIZE	300 x 500	300 x 500	300 x 500	300 x 500
REBARS	6-16mm Ø Main Bars 2-12mm Ø Web Bars	8-16mm Ø Main Bars 2-12mm Ø Web Bars	10-16mm Ø Main Bars 2-12mm Ø Web Bars	6-16mm Ø Main Bars 2-12mm Ø Web Bars
STIRRUPS SIZE	10mm Ø RSB	10mm Ø RSB	10mm Ø RSB	10mm Ø RSB
STIRRUP SPACING	3@50mm 3@100mm	3@150mm rest@200mm	3@50mm 3@100mm	3@150mm rest@200mm



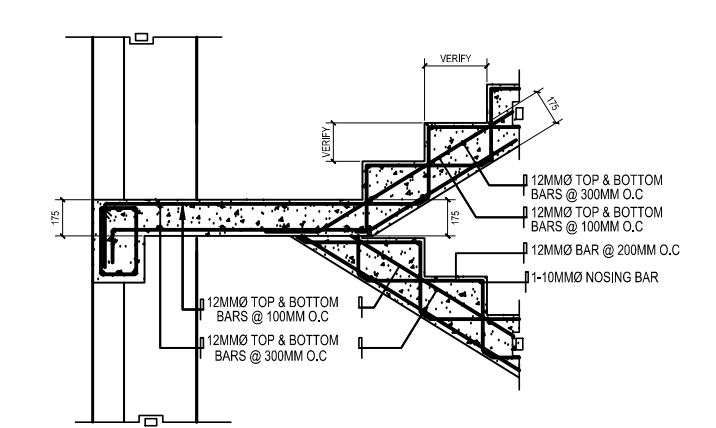
SECTION



Stair Reinforcement Bar Spot Details
scale 1:500mm

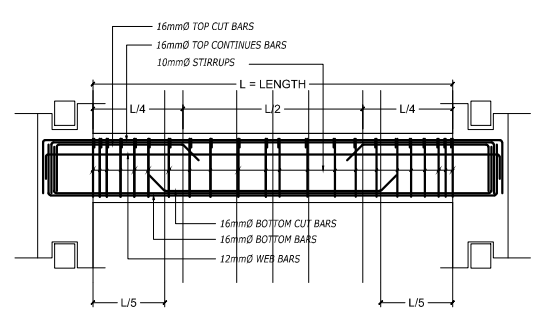


Landing Beam scale 1:200mm
Stair Reinforcement Bar Spot Details (SD-1) scale 1:200mm



Stair Reinforcement Bar Spot Details (SD-2)
scale 1:200mm

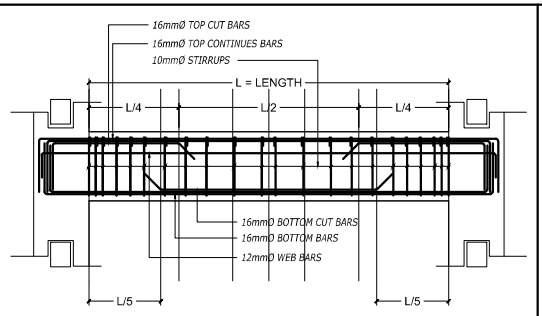
BEAM SCHEDULE	3-B1	3-B2	3-B3	3-B4	3-B5	3-B6	3CB
BEAM PLAN SECTION							
SIZE	300 x 500	300 x 500	300 x 500	300 x 500	300 x 500	300 x 500	300 x 500
REBARS	6-16mm Ø Main Bars 2-12mm Ø Web Bars	9-16mm Ø Main Bars 2-12mm Ø Web Bars	12-16mm Ø Main Bars 2-12mm Ø Web Bars	12-16mm Ø Main Bars 2-12mm Ø Web Bars	8-16mm Ø Main Bars 2-12mm Ø Web Bars	8-16mm Ø Main Bars 2-12mm Ø Web Bars	6-16mm Ø Main Bars 2-12mm Ø Web Bars
STIRRUPS SIZE	10mm Ø RSB	10mm Ø RSB	10mm Ø RSB	10mm Ø RSB	10mm Ø RSB	10mm Ø RSB	10mm Ø RSB
STIRRUP SPACING	3@50mm 3@100mm	3@150mm rest@200mm	3@50mm 3@100mm	3@150mm rest@200mm	3@50mm 3@100mm	3@150mm rest@200mm	3@150mm rest@200mm



SECTION

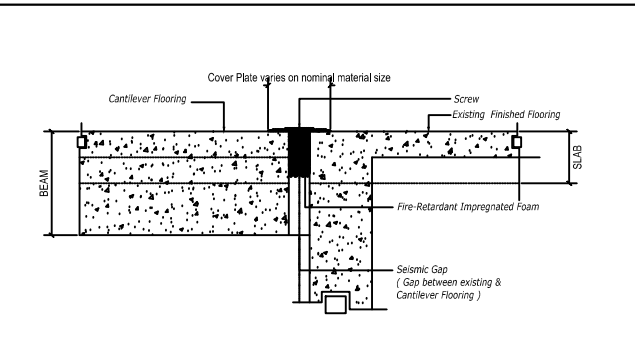
Schedule of Beams (Third floor)
Scale: 1:300 mm

BEAM SCHEDULE	RB1	RB2	RB3
BEAM PLAN SECTION			
SIZE	300 x 500	300 x 500	300 x 500
REBARS	6-16mm Ø Main Bars 2-12mm Ø Web Bars	8-16mm Ø Main Bars 2-12mm Ø Web Bars	10-16mm Ø Main Bars 2-12mm Ø Web Bars
STIRRUPS SIZE	10mm Ø RSB	10mm Ø RSB	10mm Ø RSB
STIRRUP SPACING	3@50mm 3@100mm	3@150mm rest@200mm	3@150mm rest@200mm

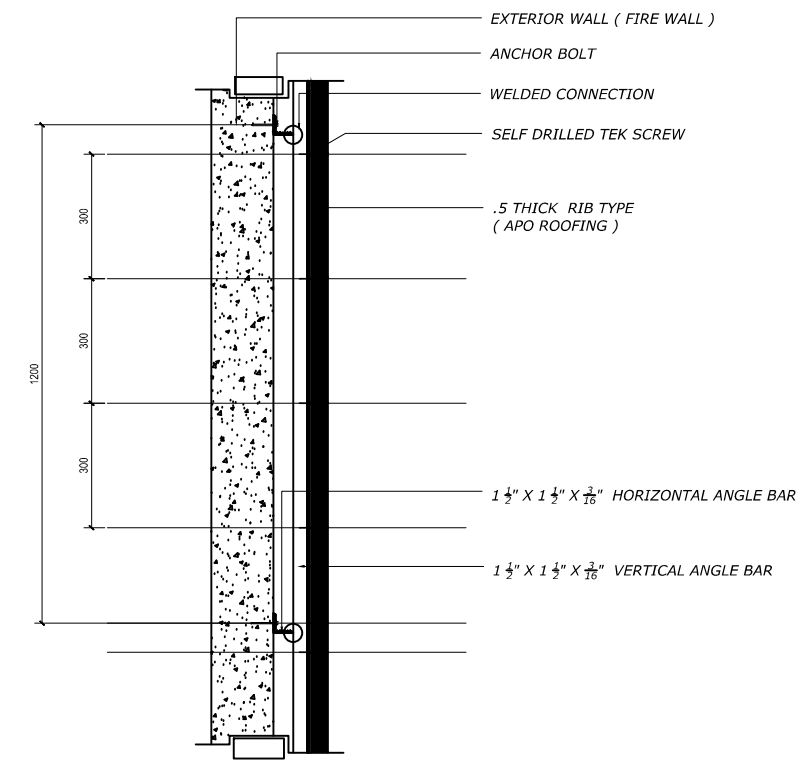


SECTION

Schedule of Beams (Roof Beam)
Scale: 1:300 mm



Seismic Gap Connection Details
Scale: 1:100 mm



Steel Sheet Cladding Connection Details
scale 1:100mm



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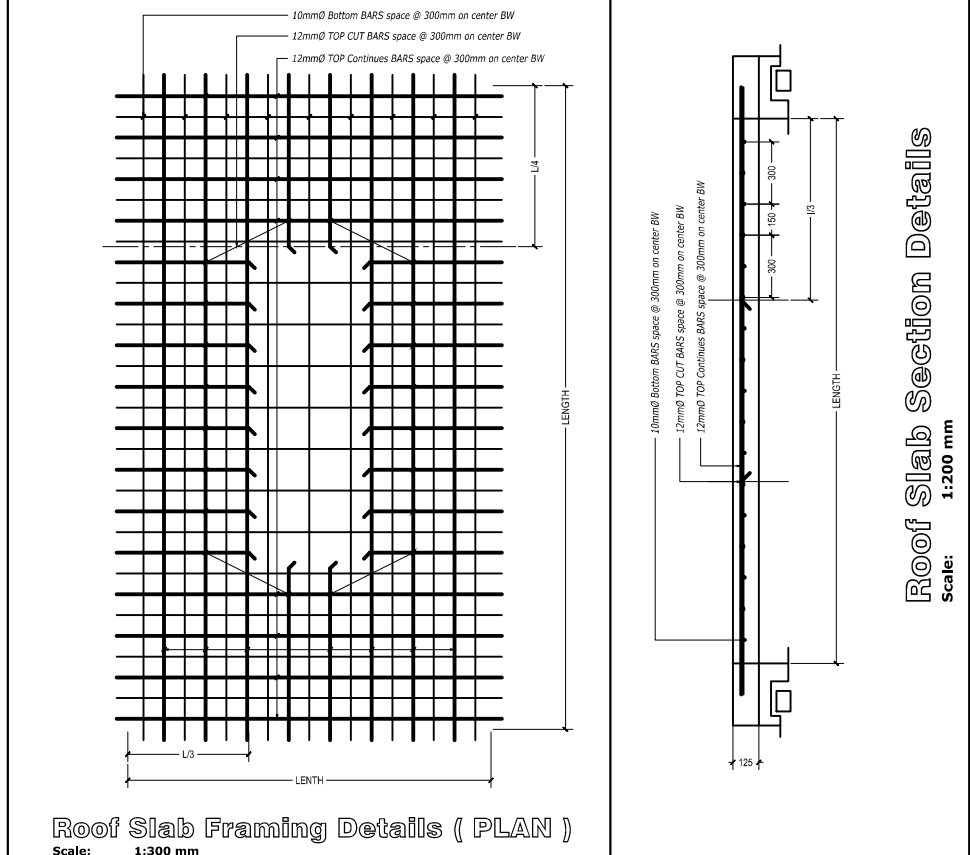
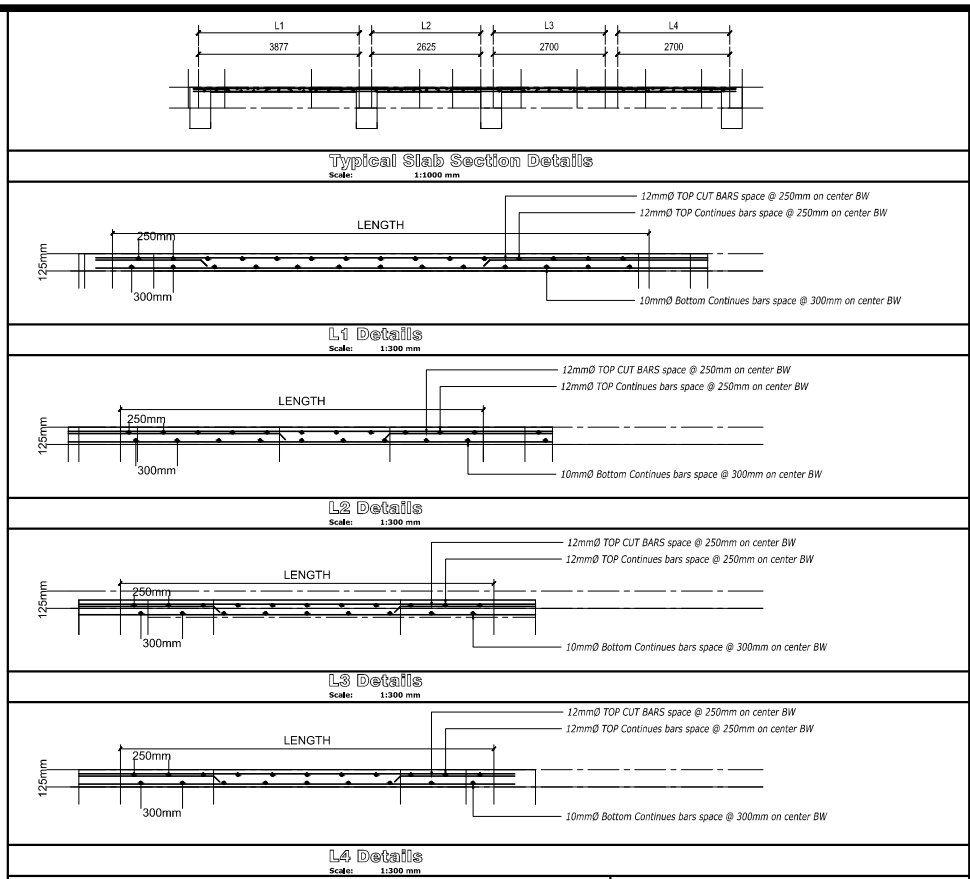
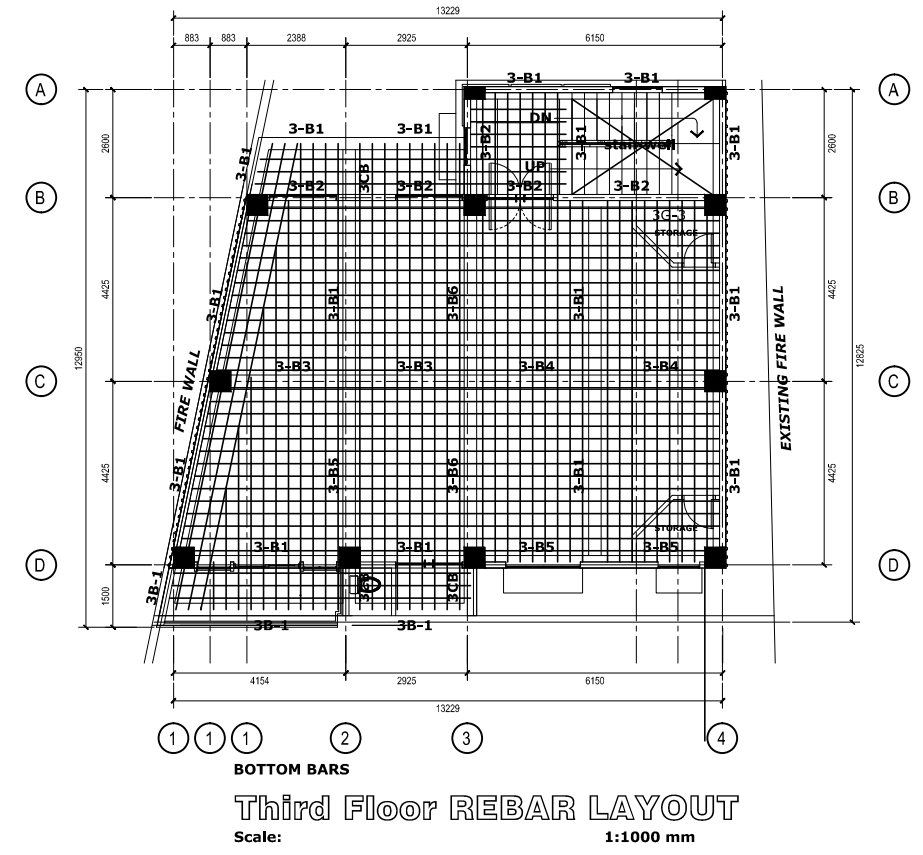
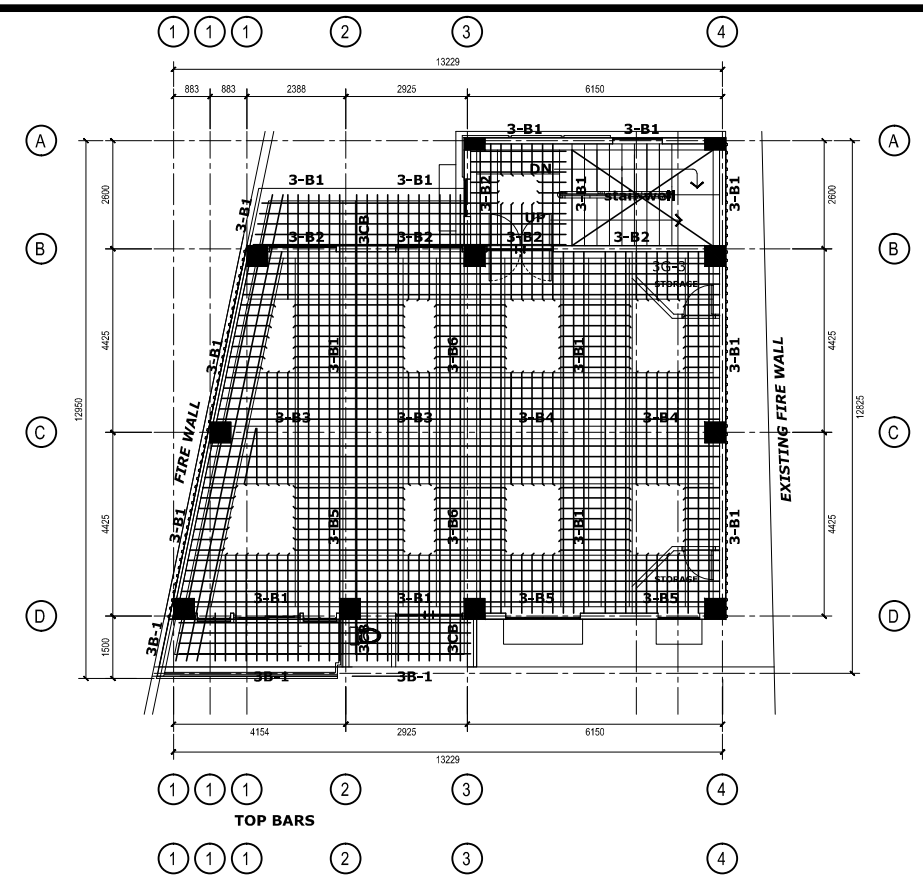
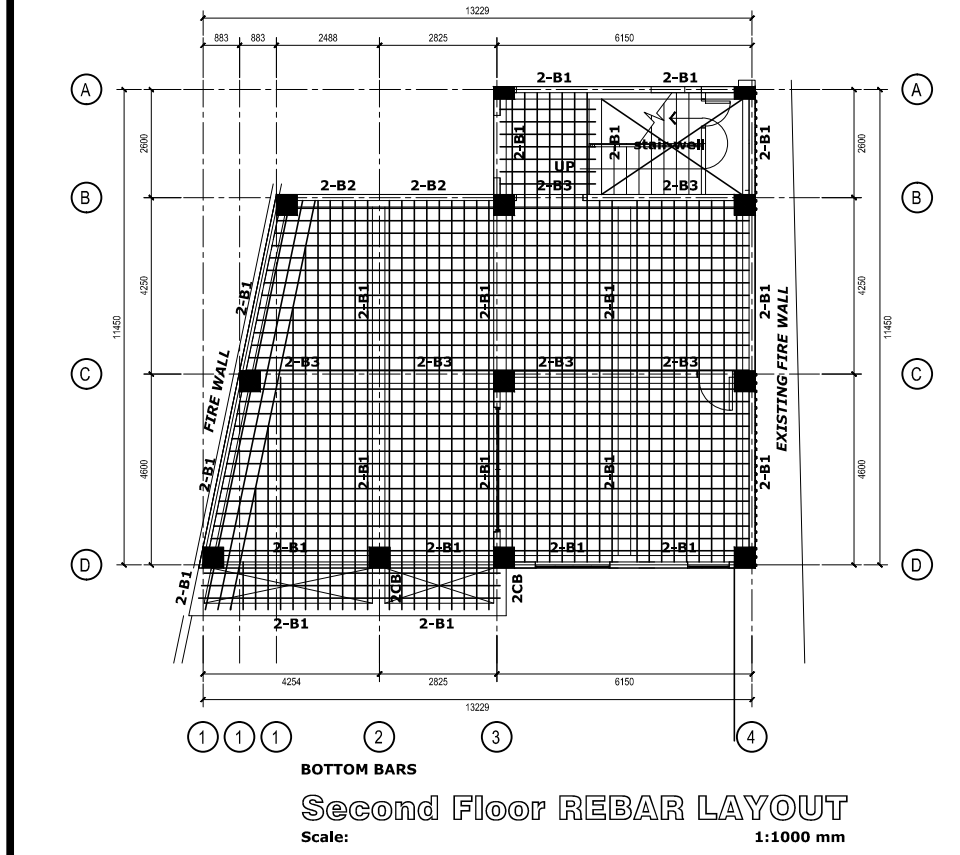
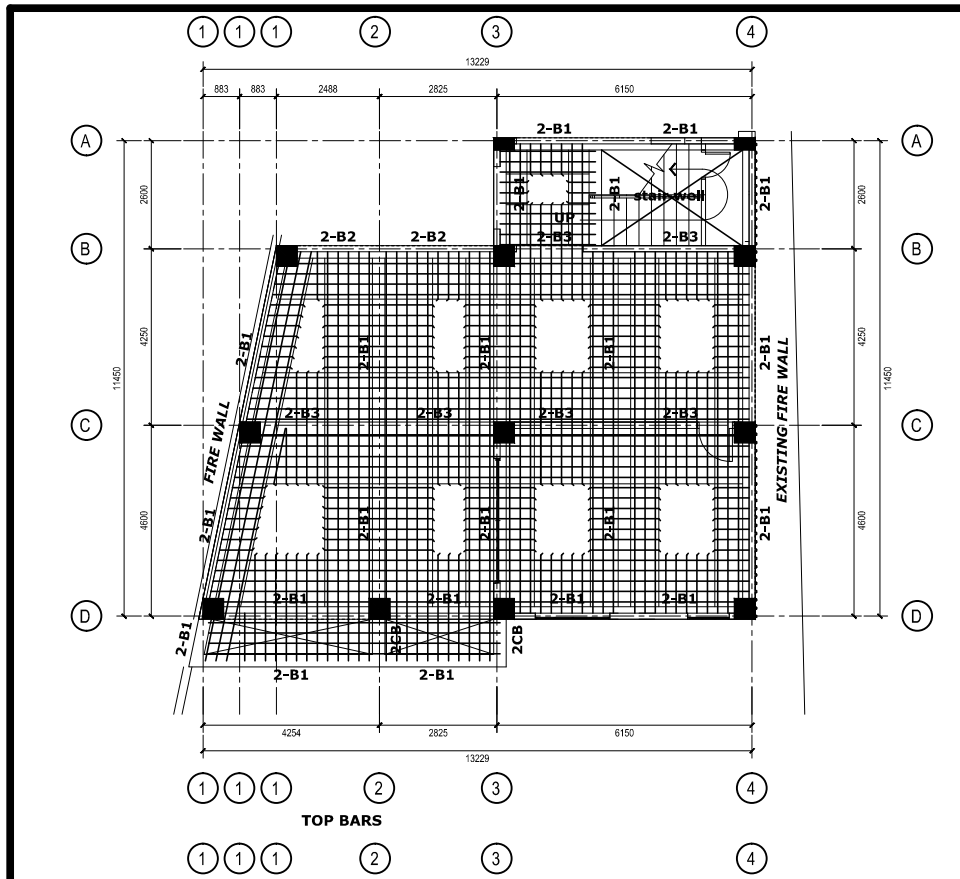
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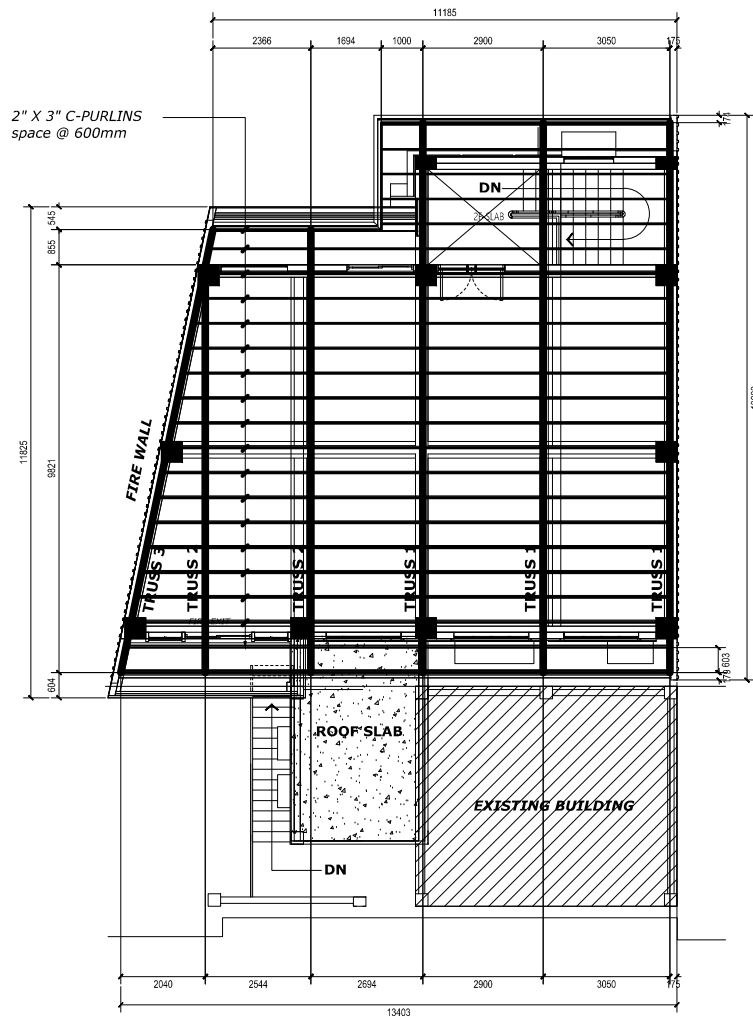
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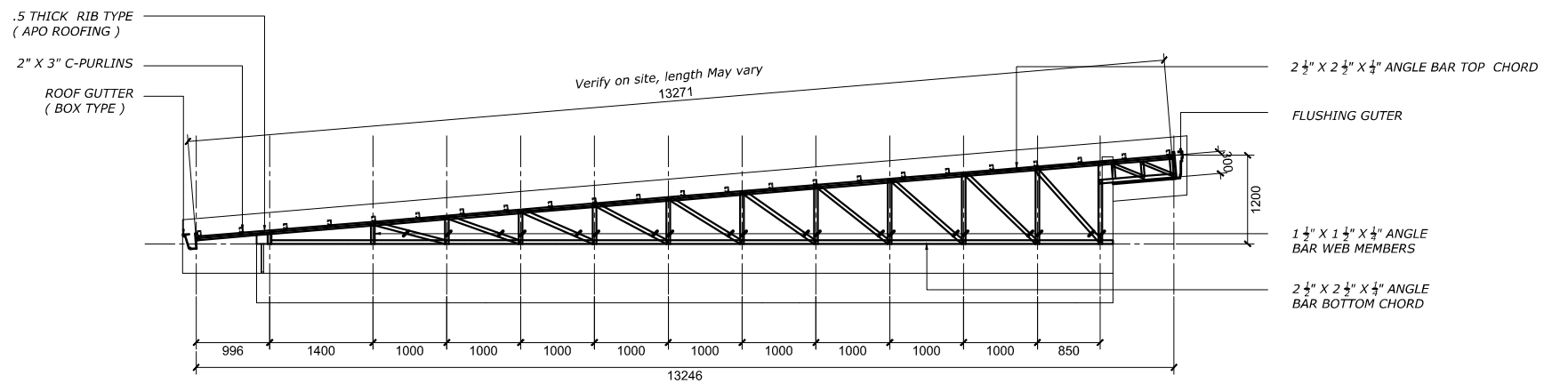
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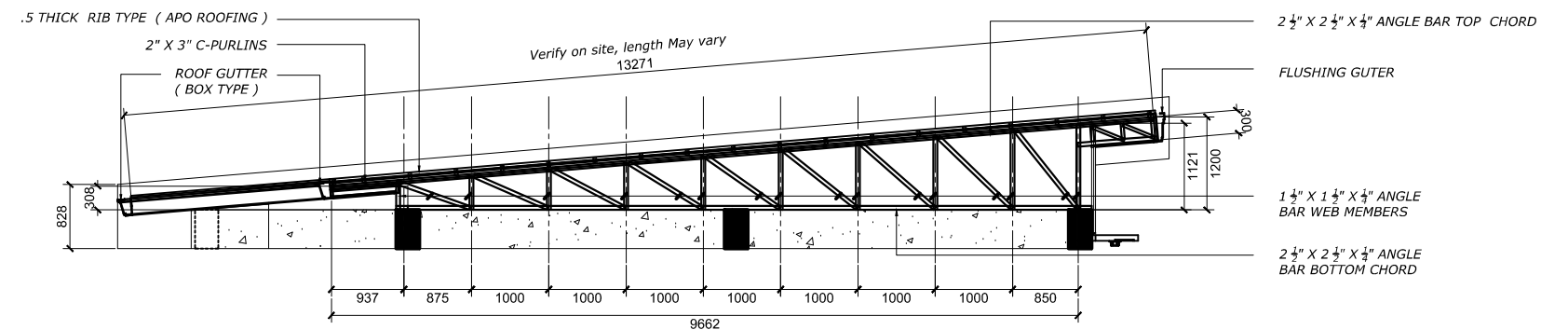
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SHEET NO. 11/20



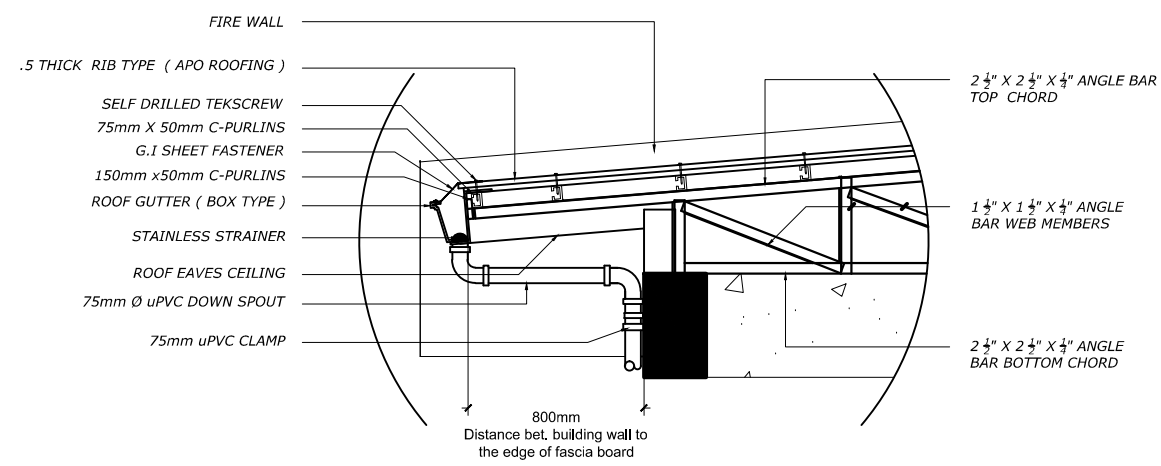
Roof Framing Plan
Scale: 1:1000 mm



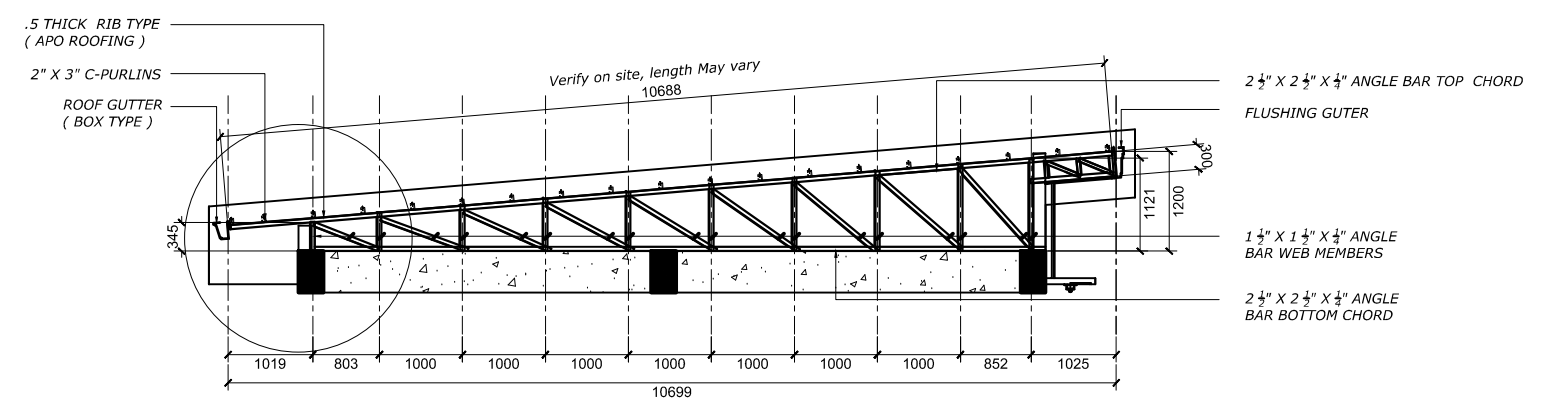
Truss Diagram Details 1
Scale: 1:500 mm



Truss Diagram Details 2
Scale: 1:500 mm



Roof Eaves Spot Details
Scale: 1:200 mm



Truss Diagram Details 3
Scale: 1:500 mm



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