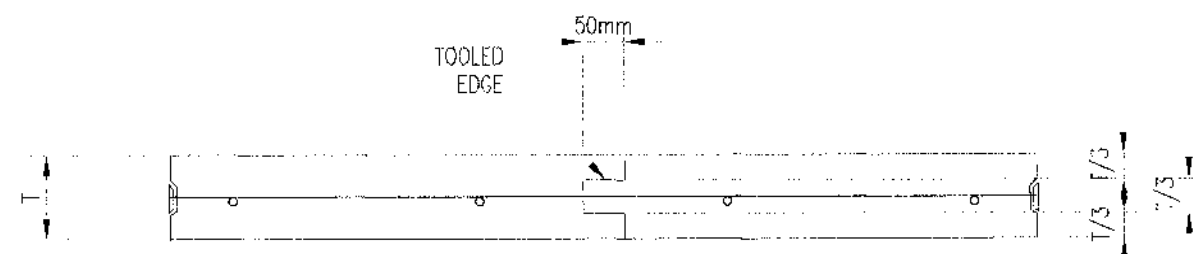


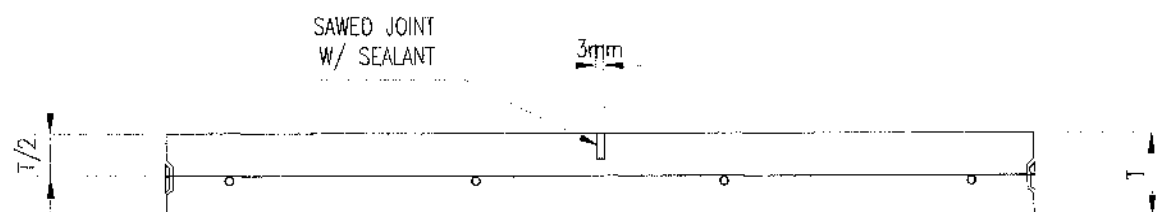
NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



CONSTRUCTION JOINT



WEAKENED PLANE JOINT

NOTE:

CONTROL JOINT CAN BE EITHER CONSTRUCTION JOINT OR WEAKENED PLANE JOINT.

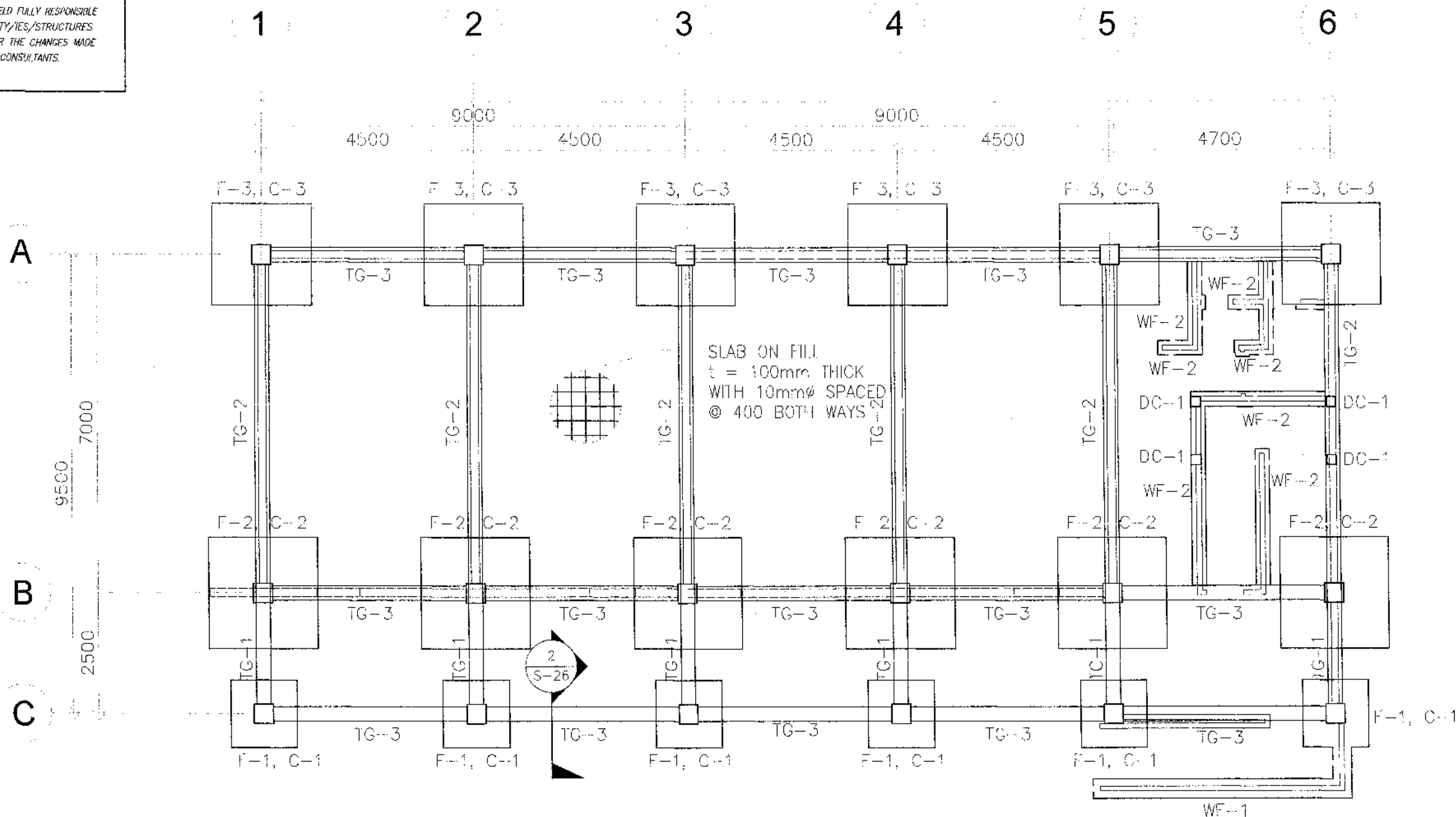


REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PASADIAN CITY	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
	CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	• AS SHOWN	CARMELITO PINALES JR. ENGINEER	GRACEY COMALING ENGINEER	BRIANNE MALLANUEVA ENGINEER	MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA DISTRICT ENGINEER	07	47
			DATE: 07/26/25	DATE: 07/25/25	DATE: 07/26/25	DATE: 07/29/25	DATE: 07/29/25	S37	98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE RE-ENACTED IMPLEMENTING RULES AND REGULATION OF P.D. 9154, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



FOUNDATION PLAN
SCALE 1:100 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADJAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS:
• AS SHOWN

PREPARED:
CARMELITO PENALES JR.
DATE: 07/29/25

REVIEWED:
GRACE Y. COMALING
ASST. CHIEF ENGINEER - DESIGN SECTION
DATE: 07/29/25

APPROVED:
BRIAN R. VILLANUEVA
CHIEF, PLANNING AND DESIGN SECTION
DATE: 07/29/25

RECOMMENDED:
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 07/29/25

APPROVED:
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 07/29/25

SET NO.
08
S37

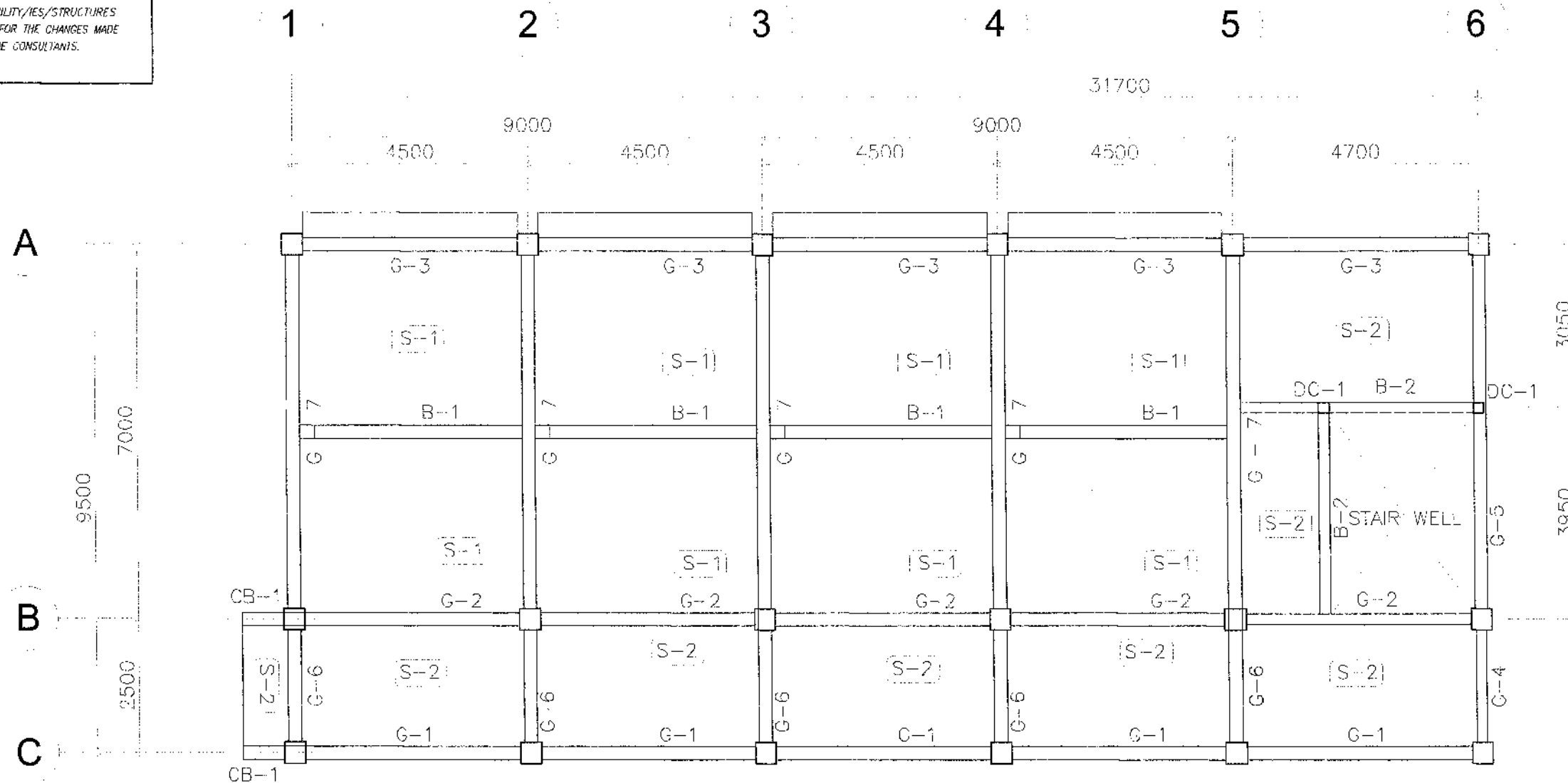
SHEET NO.
48
98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

NOTE: SEE SHEET ¹⁶_{S-37} FOR SLAB DETAIL (S-1 AND S-2)



¹_{S-9} 2ND FLOOR FRAMING PLAN
SCALE 1:100 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED BY:
CARMELITO C. HERALES JR.
ENGINEER
DATE: 07/24/25

REVIEWED BY:
GRACEY C. COWLING
ENGINEER
DATE: 07/24/25

SUBMITTED BY:
BRIANNE V. DELA ROSA
ENGINEER
DATE: 07/24/25

RECOMMENDED BY:
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 07/24/25

APPROVED BY:
PABLO L. ESQUADRO, MPA
DISTRICT ENGINEER
DATE: 07/24/25

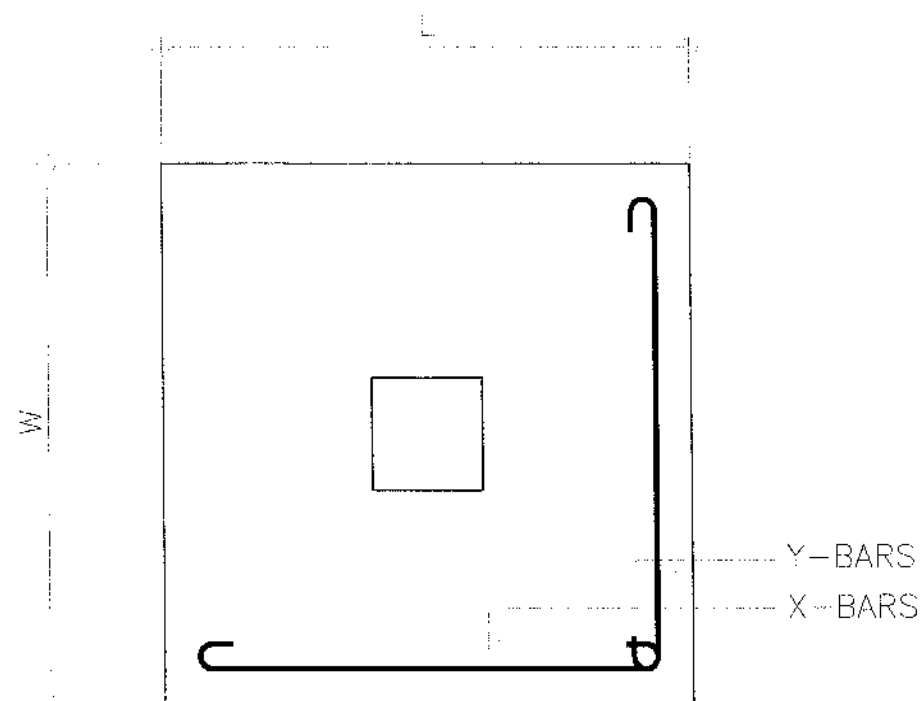
SHEET NO. 09
SHEET NO. 49
S-37
98

NOTE:

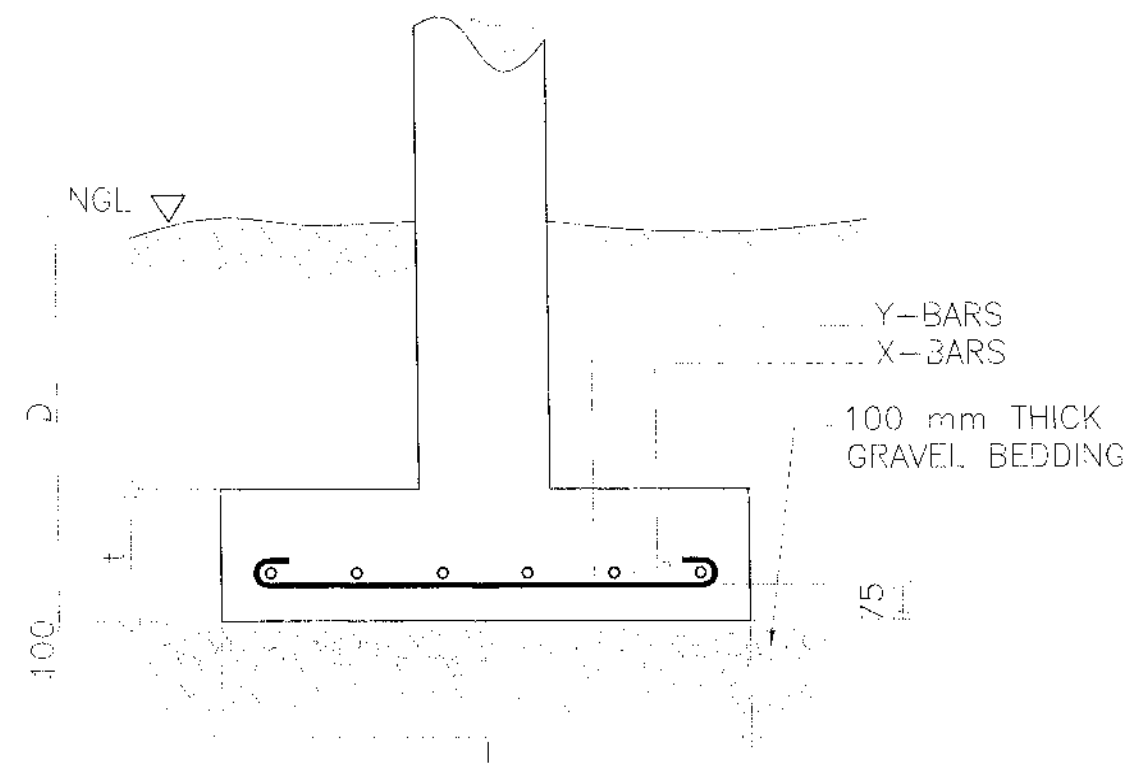
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9164, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

SCHEDULE OFF FOOTING							
FOOTING MARK	FOOTING DIMENSIONS (mm)				REINFORCEMENT		REMARKS
	LENGTH (L)	WIDTH (W)	DEPTH (D)	Thickness (t)	BAR X	BAR Y	
F-1	1400	1400	1500	350	7 - 20mmØ	7 - 20mmØ	SQUARE FOOTING
F-2	2300	2300	1500	350	11 - 20mmØ	11 - 20mmØ	SQUARE FOOTING
F-3	2100	2100	1500	350	10 - 20mmØ	10 - 20mmØ	SQUARE FOOTING



PLAN

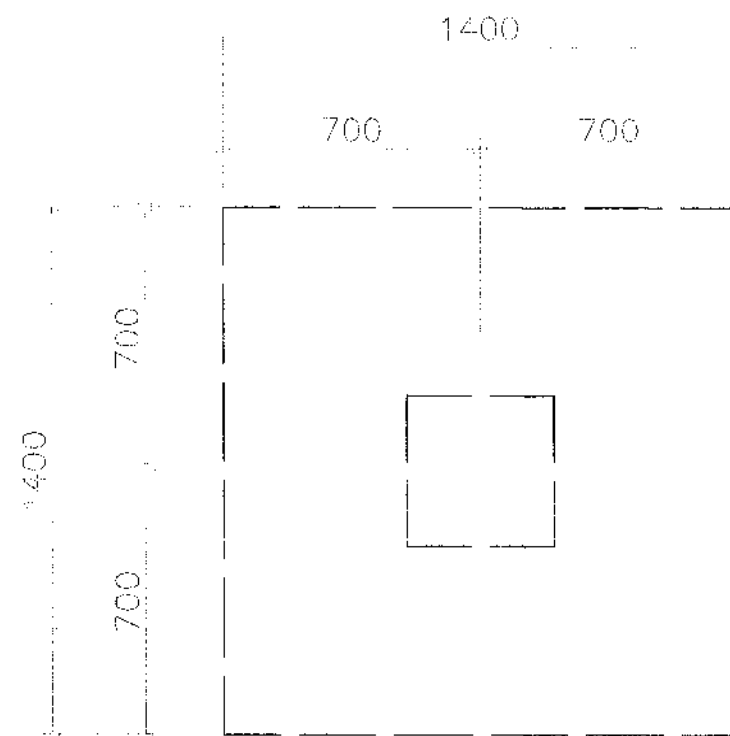


SECTION

1
S10

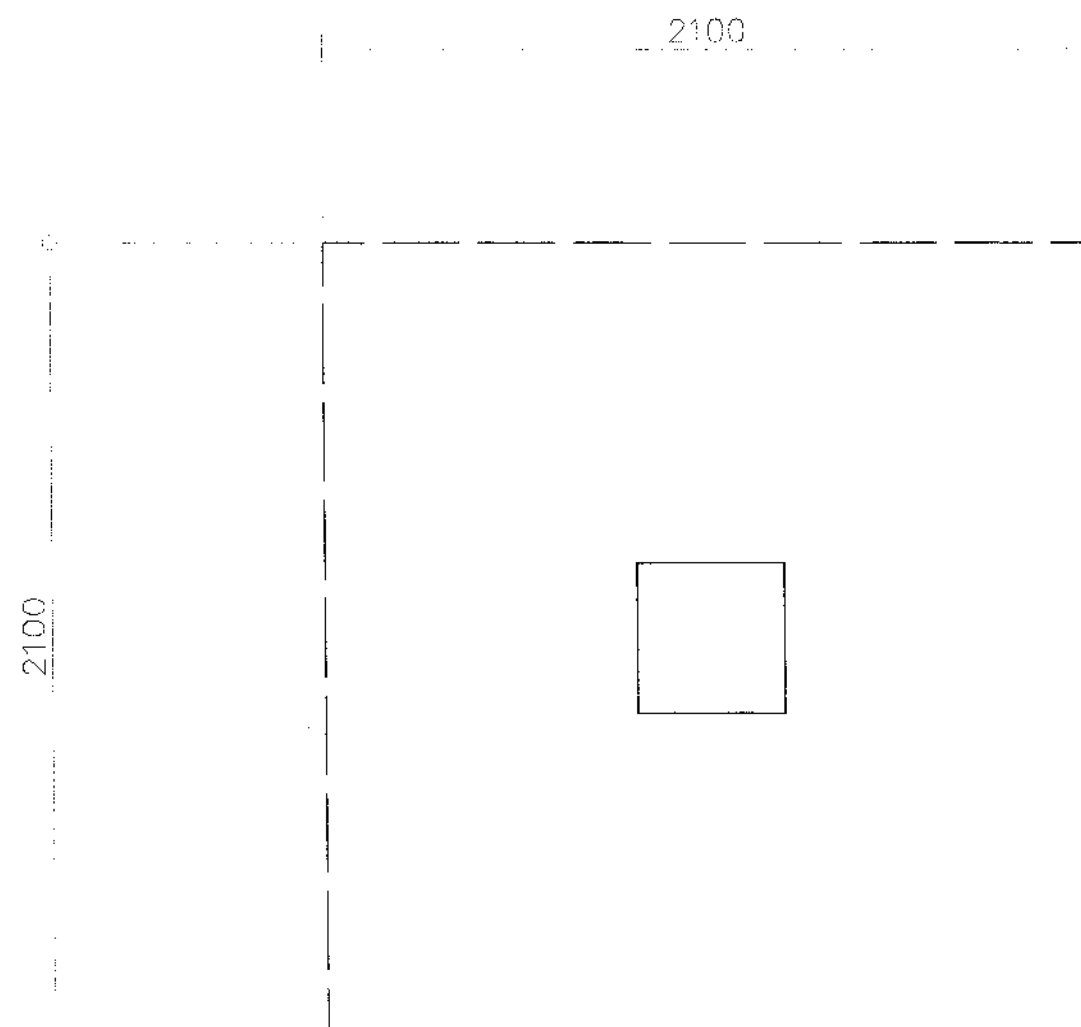
TYPICAL FOOTING DETAIL

SCALE NOT TO SCALE



NOTE:
FOOTING & COLUMN
REBARS NOT SHOWN
FOR CLARITY

1 PLAN FOOTING F-1
S11 SCALE 1:20M



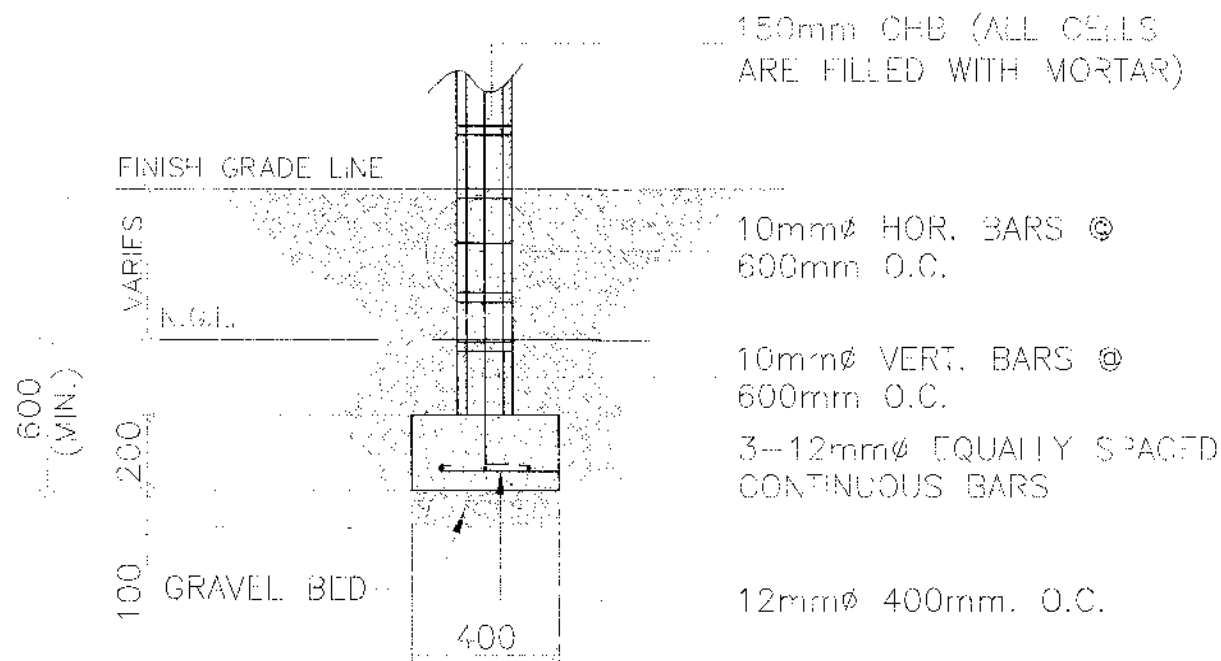
NOTE:
FOOTING & COLUMN
REBARS NOT SHOWN
FOR CLARITY

2 PLAN FOOTING F-2 OR F3
S11 SCALE 1:20 METERS

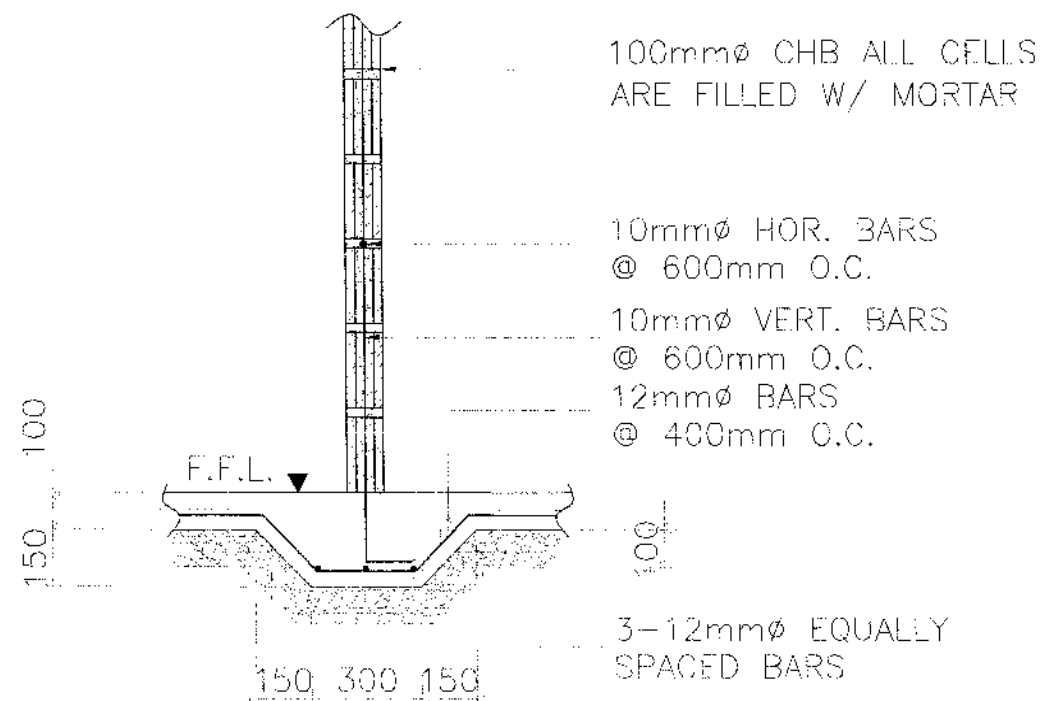
NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE
RE-APPROVED IMPLEMENTING RULES AND REGULATION OF R.A. 9164,
APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED
ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS
NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER
FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN
NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE
APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE
FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES
DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE
WITHOUT THE CONFORMITY OF THE CONSULTANTS.

	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	SHEET CONTENTS AS SHOWN	PREPARED CARMELITO A. REALES JR. ENGINEER DATE: 04/24/25	REVIEWED GRACE Y. COMAUNG ENGINEER ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 04/24/25	SUBMITTED BRIAN R. VILLARDEVA ENGINEER CHIEF, PLANNING AND DESIGN SECTION DATE: 04/24/25	RECOMMENDED MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 04/29/25	APPROVED PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 04/29/25	SET NO. 11 S37	SHEET NO. 51 98

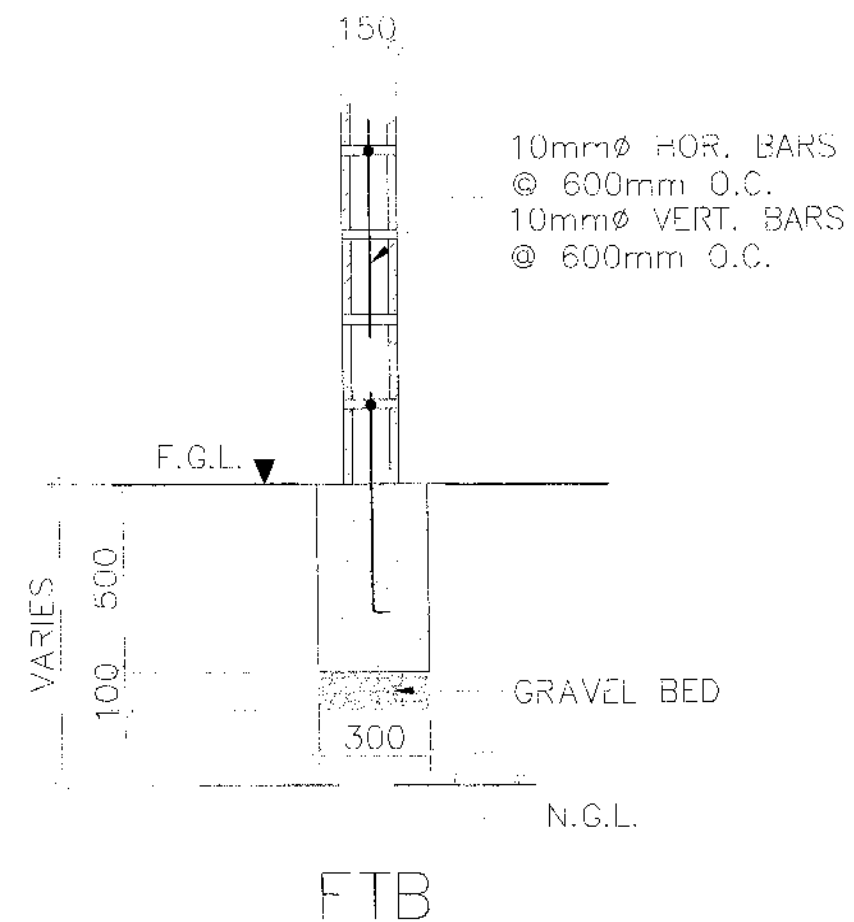


WF-1 SECTION



WF-2 SECTION

1 DETAIL OF WALL FOOTINGS
SCALE 1:20 METERS



FTB

2 DET. OF WALL ON FTB
SCALE 1:20 METERS

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 5464, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

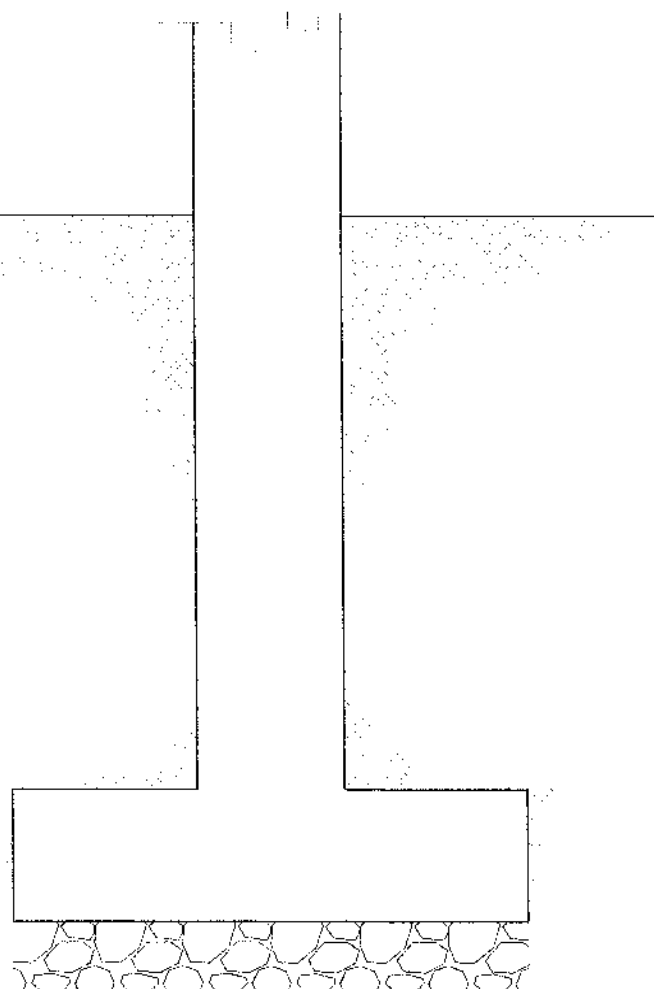
NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

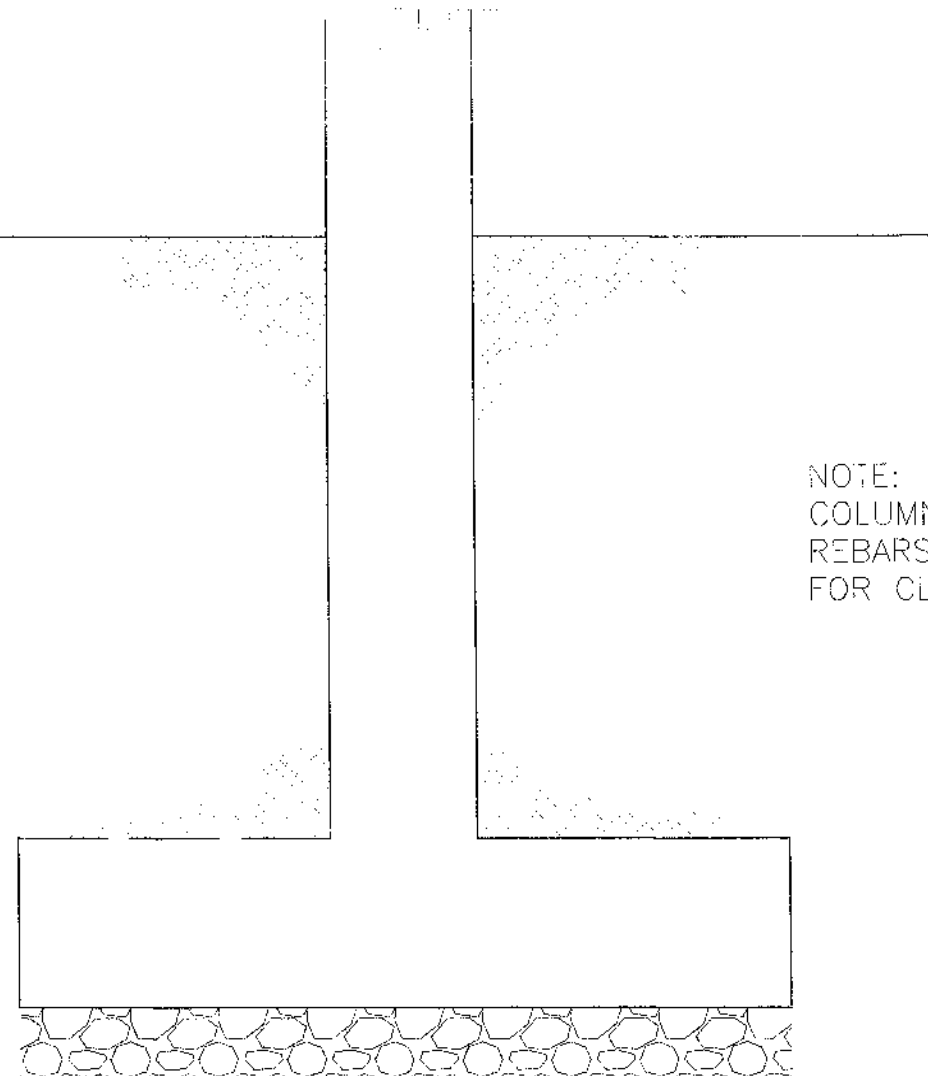
NOTE:

1. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF CONCRETE GROUT, f_c , SHALL BE 20.6 MPa (3,000 PSI)
2. THE MINIMUM YIELD STRENGTH OF REINFORCING BARS OF REINFORCING BARS f_y SHALL BE 275 MPa (40,000 PSI).



1 ELEV. FOOTING F-1
S13 SCALE 1:20 METERS

NOTE:
COLUMN & FOOTING
REBARS NOT SHOWN
FOR CLARITY.



NOTE:
COLUMN & FOOTING
REBARS NOT SHOWN
FOR CLARITY.

2 ELEV. FOOTING F-2 OR F-3
S13 SCALE 1:20 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
DAGADAGAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS:

- AS SHOWN

PREPARED:

CARMELITO M. PENALES JR.

DATE:

REVIEWED:

GRACEY COMALING

ASST. CHIEF, PLANNING & DESIGN SECTION

DATE:

SUBMITTED:

BRUNO B. BALANDE

CHIEF, PLANNING & DESIGN SECTION

DATE:

RECOMMENDED:

MARIA U. FLOREN

ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

PABLO L. ESCUADRO, MPA

DISTRICT ENGINEER

DATE:

SET NO.

13

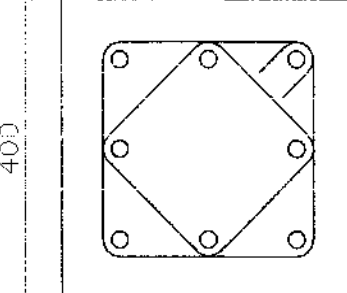
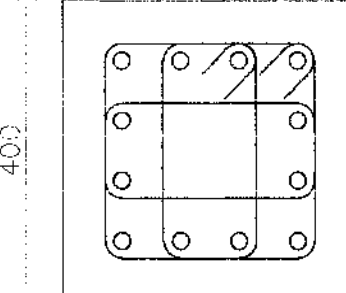
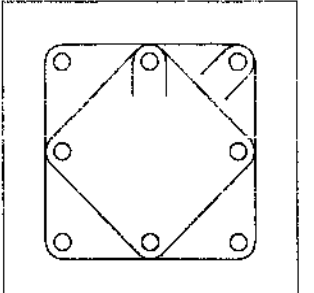
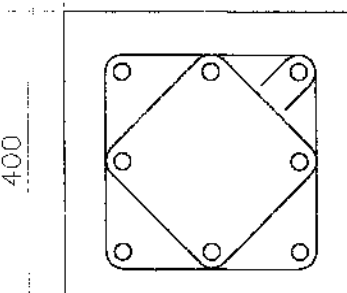
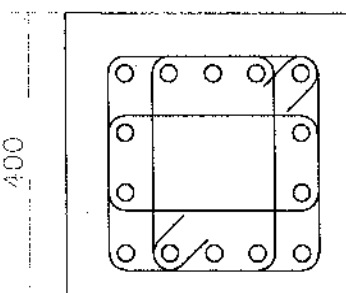
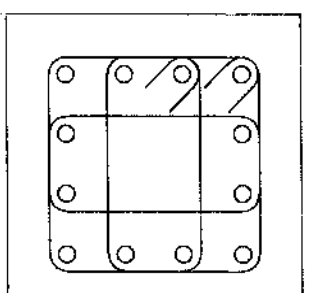
S37

SHEET NO.

53

98

COLUMNSCHEDULE

LEVEL	C-1	C-2	C-3
2ND FLOOR LEVEL TO ROOF LEVEL	 MAIN BAR: 8-20mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 50mm TO CENTER	 MAIN BAR: 12-25mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 8-25mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER
FOUNDATION LEVEL TO 2ND FLOOR LEVEL	 MAIN BAR: 8-20mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 14-25mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 12-25mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS:
AS SHOWN

PREPARED:
CARMELITO ARRENALES JR.
ENGINEER
DATE: 07/29/23

REVIEWED:
GRACEY COMALING
ENGINEER
DATE: 08/23/23

RECOMMENDED:
BRIAN P. VALENZUELA
ENGINEER
DATE: 08/23/23

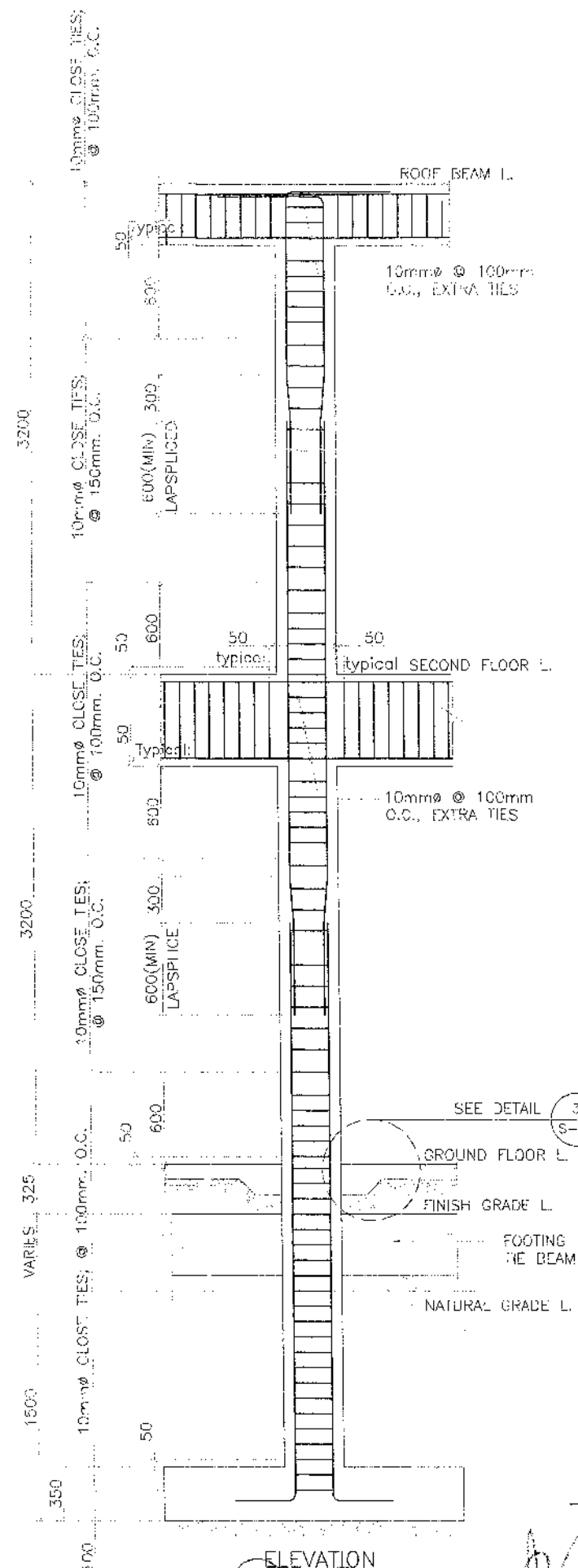
APPROVED:
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 07/29/23

APPROVED:
PABLO L. ESCUADRO/MPA
DISTRICT ENGINEER
DATE: 07/29/23

SET NO. 14
SHEET NO. 54
S37 98

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF RA 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



TYPICAL DETAIL OF R.C. COLUMN

SCALE 1:40 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGALAN CITY

CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

• AS SHOWN

CARMELITO A. PENALES JR.

GRACEY, COMALING

BRANIK, VILKOVSA

MARIA U. FLOREN

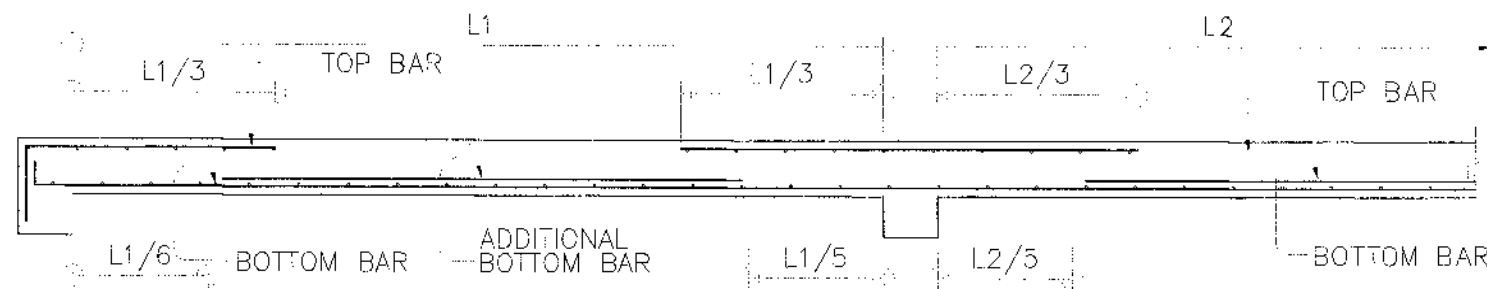
PABLO L. ESCUADRO, MPA

15
S 37

55
98

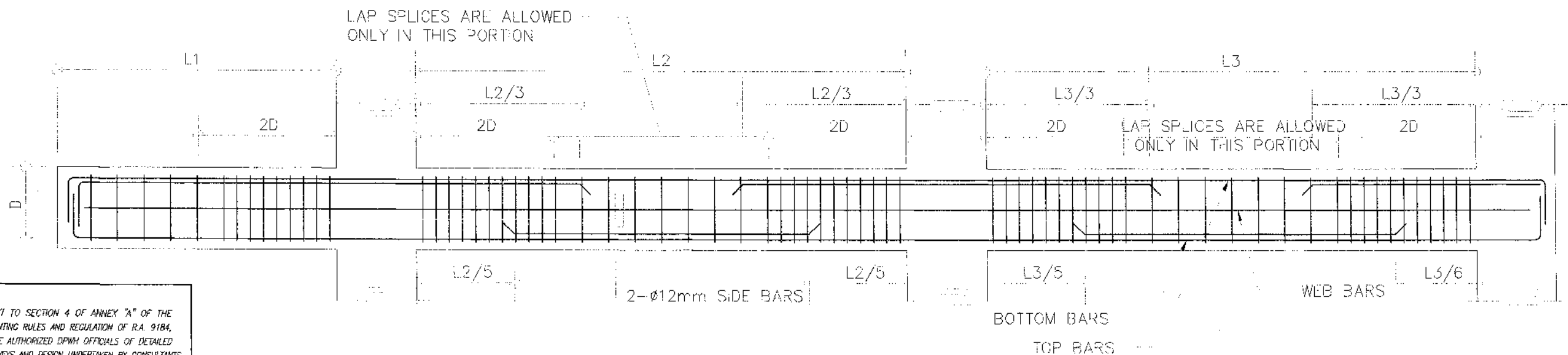
SCHEDULE OF SLABS

FLOOR LEVEL	SLAB MARK	THICK- NESS in mm	REBAR SPACING ALONG SHORT DIRECTION								REBAR SPACING ALONG LONG DIRECTION						REMARKS		
			REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT				
				TOP	BOTT.	TOP	BOTT.	ADD'L BOT. BARS, 100-120(250)	TOP		BOTT.	TOP	BOTT.	TOP	BOTT.	ADD'L BOT. BARS, 100-120(250)			
SECOND LEVEL	S-1	100	Ø10mm	150	300	—	300	300	150	300	Ø10mm	250	300	—	300	300	250	300	TWO WAY. FOR ADD'L BOT. BARS PLACED IN BETWEEN THE BOTTOM CONTINUOUS BARS.
	S-2	100	Ø10mm	200	300	—	300	300	200	300	Ø10mm	300	300	—	300	300	300	300	TWO WAY. FOR ADD'L BOT. BARS PLACED IN BETWEEN THE BOTTOM CONTINUOUS BARS.



1
S16 SCALE NOT TO SCALE

TYPICAL SLAB ELEVATION



2
S16 SCALE NOT TO SCALE

TYPICAL BEAM ELEVATION

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 5464, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

B E A M S C H E D U L E

FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		S T E E L R E I N F O R C E M E N T S						12mm ϕ WEB BAR	S T I R R U P S ϕ 10mm (UNLESS NOTED OTHERWISE)	
		b	h	REBAR (mm ϕ)	LEFT		MID SPAN		RIGHT			
					TOP	BOTTOM	TOP	BOTTOM	TOP			BOTTOM
2ND FLOOR LEVEL	G-1	250	400	ϕ 20mm	3	2	2	3	3	2		1 ϕ 50, 6 ϕ 100, REST ϕ 175
	G-2	250	400	ϕ 20mm	4	2	2	3	4	2		1 ϕ 50, 6 ϕ 100, REST ϕ 175
	G-3	250	400	ϕ 20mm	4	2	2	3	4	2		1 ϕ 50, 6 ϕ 100, REST ϕ 175
	G-4	250	400	ϕ 20mm	2	2	2	2	5	3		1 ϕ 50, 6 ϕ 100, REST ϕ 175
	G-5	250	500	ϕ 20mm	5	3	2	4	5	3	2	1 ϕ 50, 8 ϕ 100, REST ϕ 200
	G-6	250	400	ϕ 20mm	2	2	2	2	5	3		1 ϕ 50, 6 ϕ 100, REST ϕ 175
	G-7	250	500	ϕ 20mm	6	3	2	6	6	3	2	1 ϕ 50, 10 ϕ 100, REST ϕ 200
	B-1	250	400	ϕ 16mm	4	2	2	3	4	2		1 ϕ 50, 6 ϕ 100, REST ϕ 175
	B-2	200	400	ϕ 16mm	2	2	2	4	2	2		1 ϕ 50, 6 ϕ 100, REST ϕ 175
	CB-1	250	400	ϕ 16mm	4	2	4	2	4	2		1 ϕ 50, 10 ϕ 100, REST ϕ 150
ROOF LEVEL	RG-1	200	400	ϕ 20mm	2	2	2	2	2	2		1 ϕ 50, 6 ϕ 100, REST ϕ 200
	RG-2	200	500	ϕ 20mm	5	3	2	3	4	3	2	1 ϕ 50, 10 ϕ 100, REST ϕ 200
FOOTING TIE BEAM	TG-1	300	500	ϕ 20mm	3	3	3	3	4	3	2	1 ϕ 50, 6 ϕ 100, REST ϕ 200
	TG-2	300	500	ϕ 20mm	4	3	3	3	4	3	2	1 ϕ 50, 10 ϕ 100, REST ϕ 200
	TG-3	300	500	ϕ 20mm	3	3	3	3	3	3	2	1 ϕ 50, 6 ϕ 100, REST ϕ 200
STAIR BEAM	STB-1	200	400	ϕ 16mm	3	2	2	4	3	2		1 ϕ 50, 6 ϕ 100, REST ϕ 175
	STB-2	200	400	ϕ 16mm	4	2	2	4	4	2	2	1 ϕ 50, 8 ϕ 100, REST ϕ 200



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:

CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS:

• AS SHOWN

PREPARED:

CARMELITO PERALES JR.
DATE: 07/29/25

REVIEWED:

GRACE L. DOMALING
ASST. CHIEF, DISTRICT ENGINEERING SECTION
DATE: 07/29/25

SUBMITTED:

ESTERITA VILLARMA
CHIEF, DISTRICT ENGINEERING SECTION
DATE: 07/29/25

RECOMMENDED:

MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 07/29/25

APPROVED:

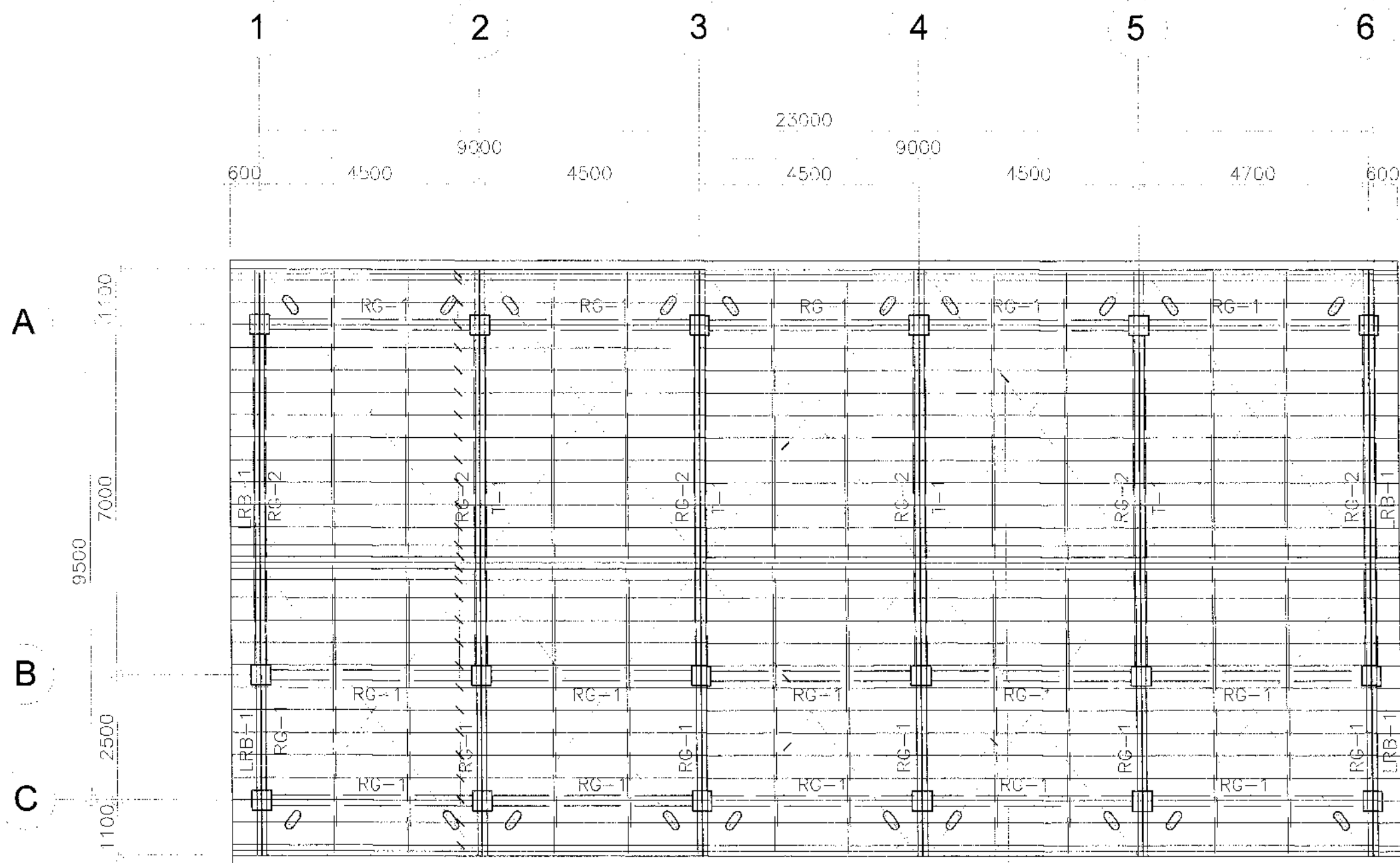
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 07/29/25

SET NO.:

17
S37

SHEET NO.:

57
98



LC-150 x 65 x 20 x 2.0mm
PURLINS @ 500mm O.C.

12mm ϕ SAG RODS @
THIRD-POINT, STAGGERED

16mm ϕ STEEL CROSS-BRACINGS
w/ STD. TURN-BUCKLE AS SHOWN

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

1 ROOF FRAMING PLAN

S18 SCALE 1:100 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
DAGADAG CITY

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED
CARMELITA MENALES JR.
DATE 07/29/25

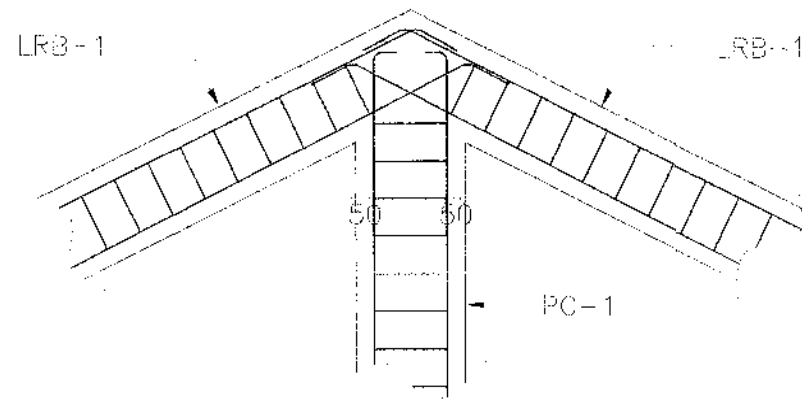
REVIEWED
GRACEY COMALING
ASST. CHIEF ENGINEER
DATE 07/29/25

SUBMITTED
BRIAN S. M. DEVA
CHIEF PLANNING AND DESIGN SECTION
DATE 07/29/25

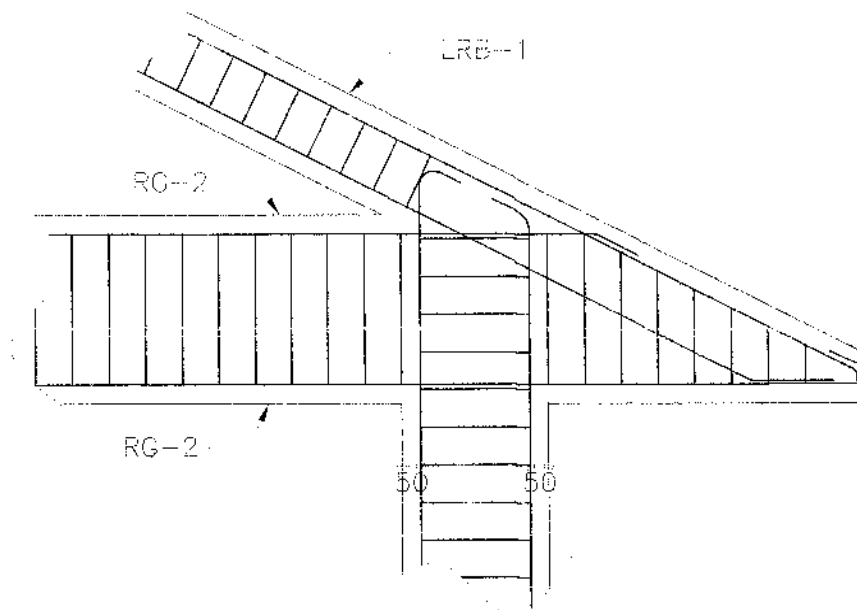
RECOMMENDED
MARIA L. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE 07/29/25

APPROVED
PABLO C. ESCUADRO, MPA
DISTRICT ENGINEER
DATE 07/29/25

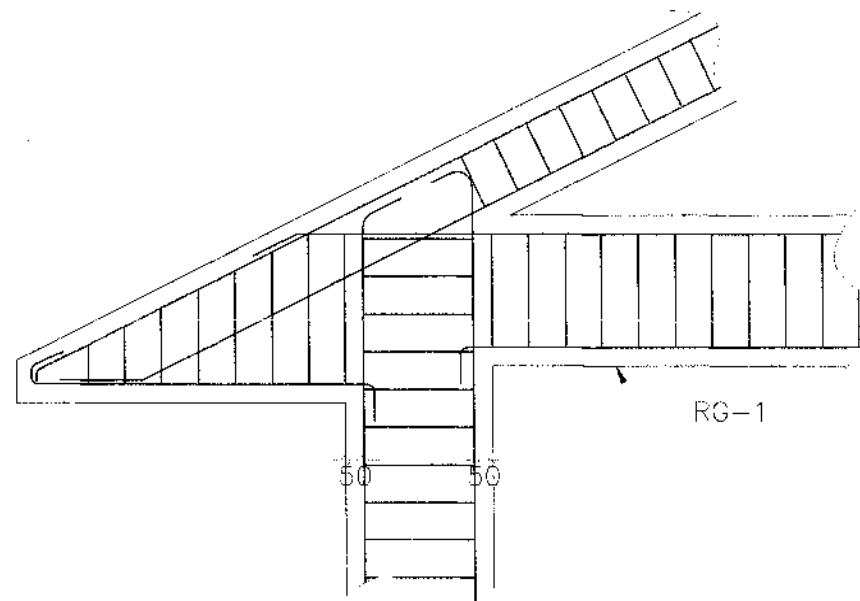
SET NO. 18
SHEET NO. 58
S37 98



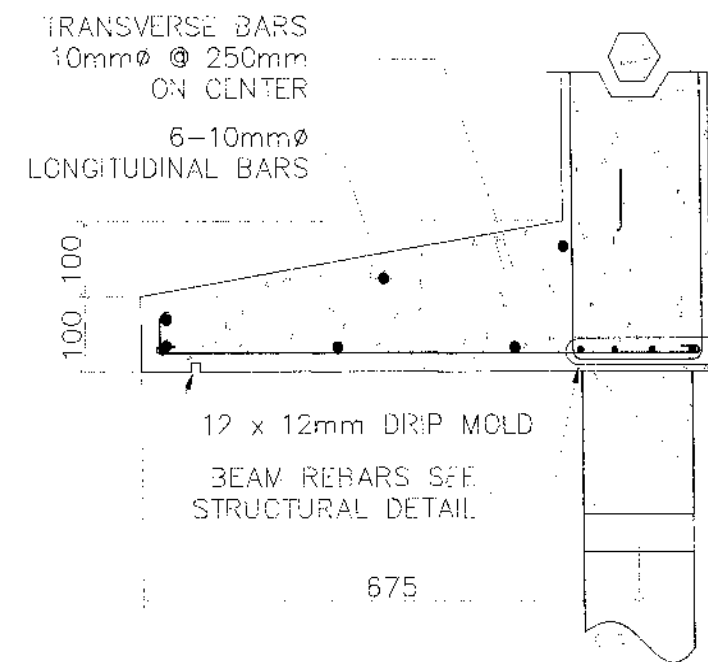
1 DETAIL
S19 SCALE 1:80 METERS



2 DETAIL
S19 SCALE 1:20 METERS



3 DETAIL
S19 SCALE 1:20 METERS

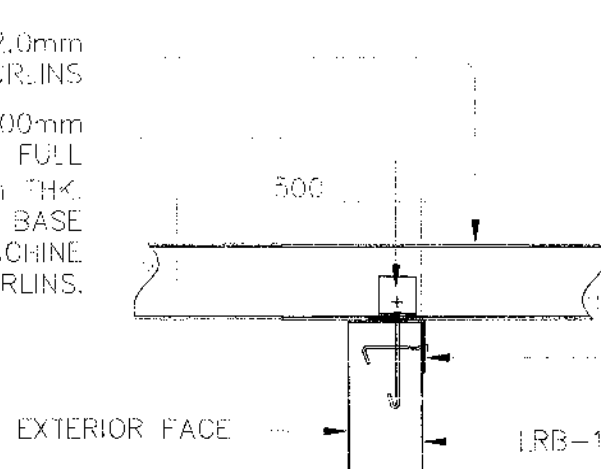


4 CONCRETE SUNBREAKER DETAIL
S19 SCALE 1:10 METERS

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

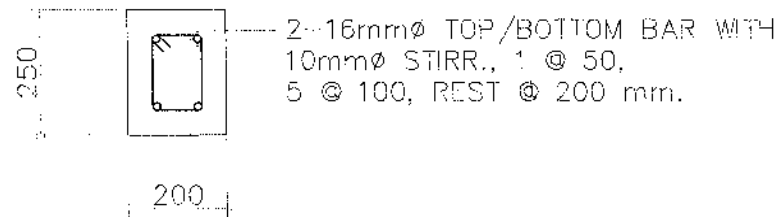
150 x 65 x 20 x 2.0mm
LC PURLINS
75 x 75 x 6mm x 100mm
LONG CLIP ANGLE FULL
WELD W/ 3mm THK.
FILLET WELD @ BASE
PLATE x 6mm Ø MACHINE
BOLT @ PURLINS.



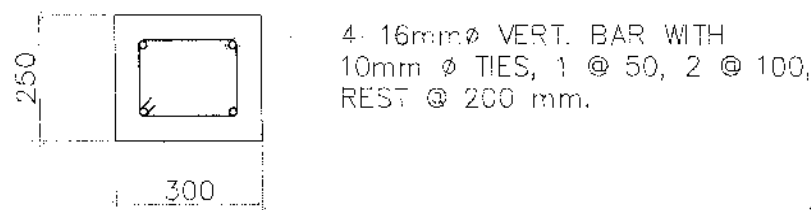
100 x 100 x 6mm THK.
ANGULAR BASE PLATE
WITH 2-12mmØ X 150mm
LONG VERT. & HOR. ANCHOR
BOLTS SPACED @ 500mm
O.C. (SPACED ALTERNATELY)

4-12mmØ & VERT. BARS
W/ 10mmØ TIES, 1 @ 50,
2 @ 100 REST @ 200 mm
O.C.

1 CONNECTION OF PURLINS TO LRB-1 SCALE 1:15 METERS

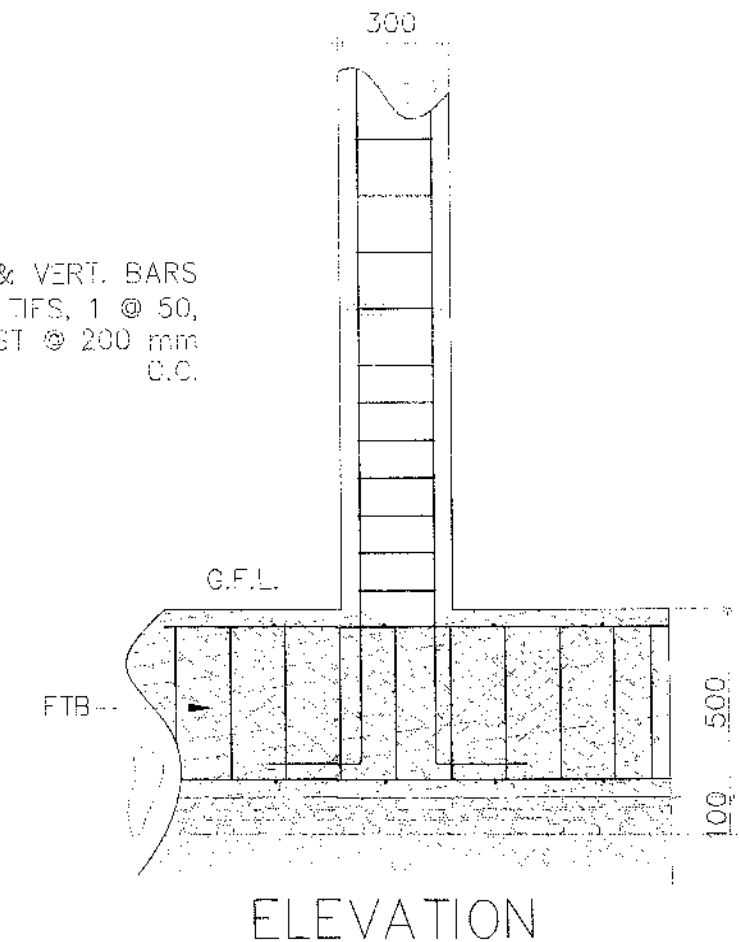


LRB-1



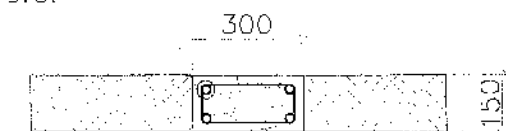
PC - 1

2 DET. SECTION OF LRB-1 AND PC-1 SCALE 1:15 METERS



ELEVATION

4-12mmØ VERT. BARS
W/ 10mmØ TIES; 1 @ 50,
2 @ 100, REST @ 200mm
O.C.



PLAN

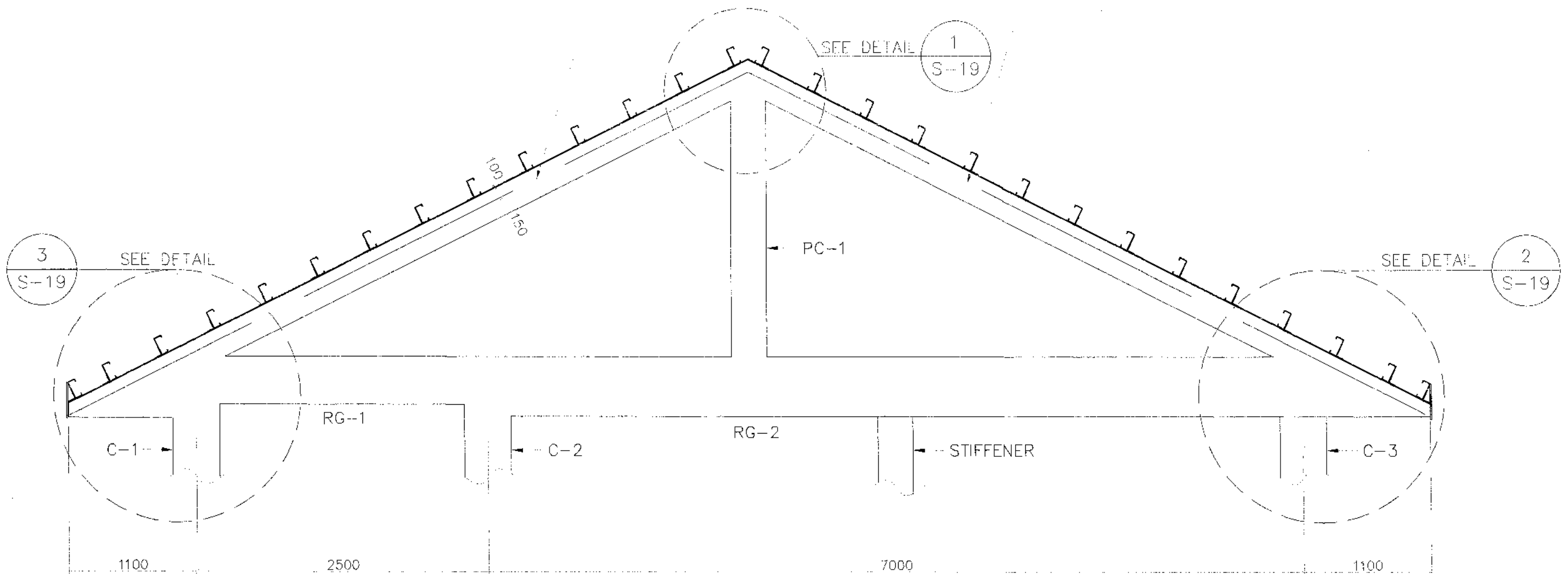
3 STIFFENER DETAIL SCALE 1:20 METERS

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE
REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184,
APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED
ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS
NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER
FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN
NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE
APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE
FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES
DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE
WITHOUT THE CONFORMITY OF THE CONSULTANTS.

REPUBLIC OF THE PHILIPPINES	PROJECT NAME AND LOCATION	SHEET CONTENTS	PREPARED	REVIEWED	SUBMITTED	RECOMMENDED	APPROVED	SET NO.	SHEET NO.
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE DANAGAUAN CITY	CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	AS SHOWN	CARMELITO APENALES JR. DATE: 07-28-25	GRACE Y. COMALING DATE: 07-28-25	BRIAN P. ALARCON DATE: 07-28-25	MARIA U. FLOREN DATE: 07-28-25	PABLO L. ESCUADRO, MPA DATE: 07-28-25	20 S37	60 98

100 x 100 x 5mm THK.
ANGULAR BASE PLATE



1
S21
ELEV. OF END WALL FRAME
SCALE 1:35 METERS

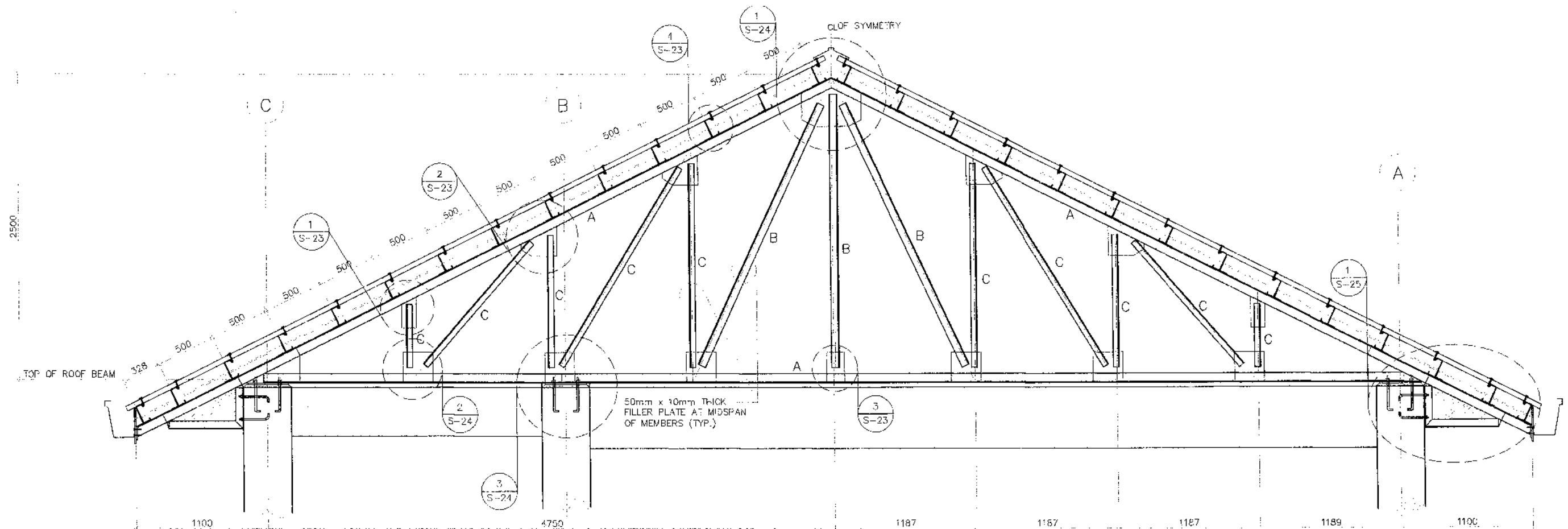
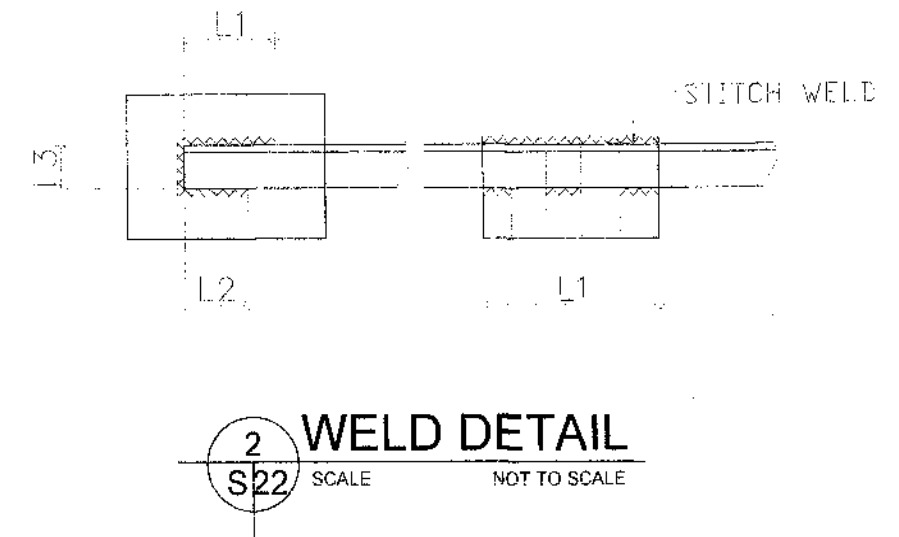
NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADJAN CITY	PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	SHEET CONTENTS: • AS SHOWN	PREPARED BY: CARMELITO A. PENALES JR. DATE: 04/29/25	REVIEWED BY: GRACEY COMALING DATE: 04/29/25	SUBMITTED BY: CHRISTIAN B. OJEDA DATE: 04/29/25	RECOMMENDED BY: MARIA U. FLOREN DATE: 04/29/25	APPROVED BY: PABLO C. LEONARDO, MPA DATE: 04/29/25	SET NO. 21 S37	SHEET NO. 61 98
	DATE: 04/29/25								

SCHEDULE OF TRUSSES MEMBERS AND WELDS

NAME	SIZE TRUSS MEMBERS mm	THICKNESS	WELDS (mm)			REMARKS
			LENGTH L1	L2	L3	
A	2Ls-75 x 75 x 6 (A) (TOP/BOTTOM CHORDS)	6	FULL WELD			
B	2Ls-65 x 65 x 6 (B)	6	125	100	65	
C	2Ls-50 x 50 x 6 (C)	6	100	75	50	



NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

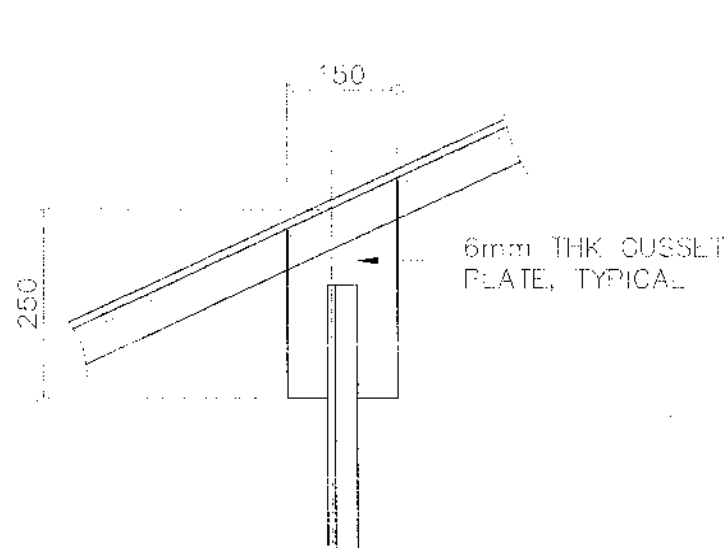
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

1 TRUSS -1 ELEVATION

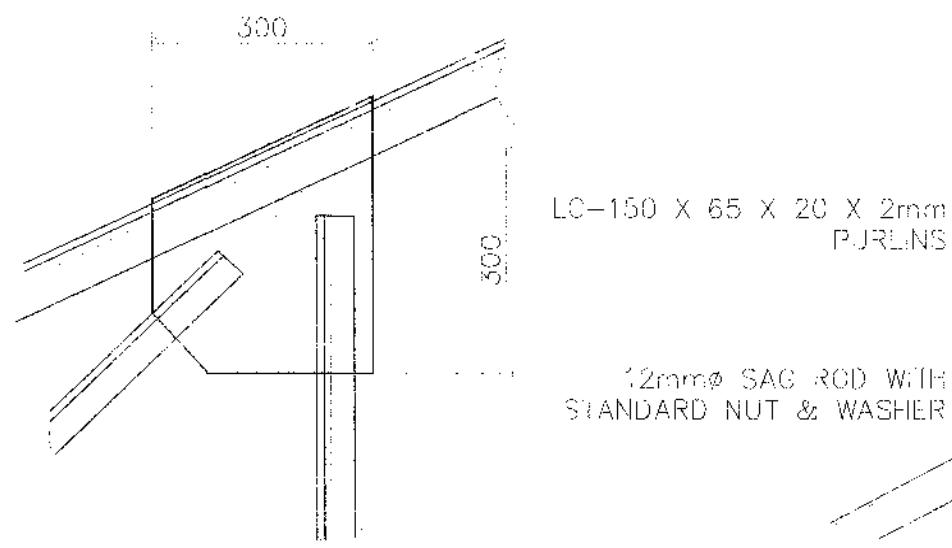
S22

SCALE

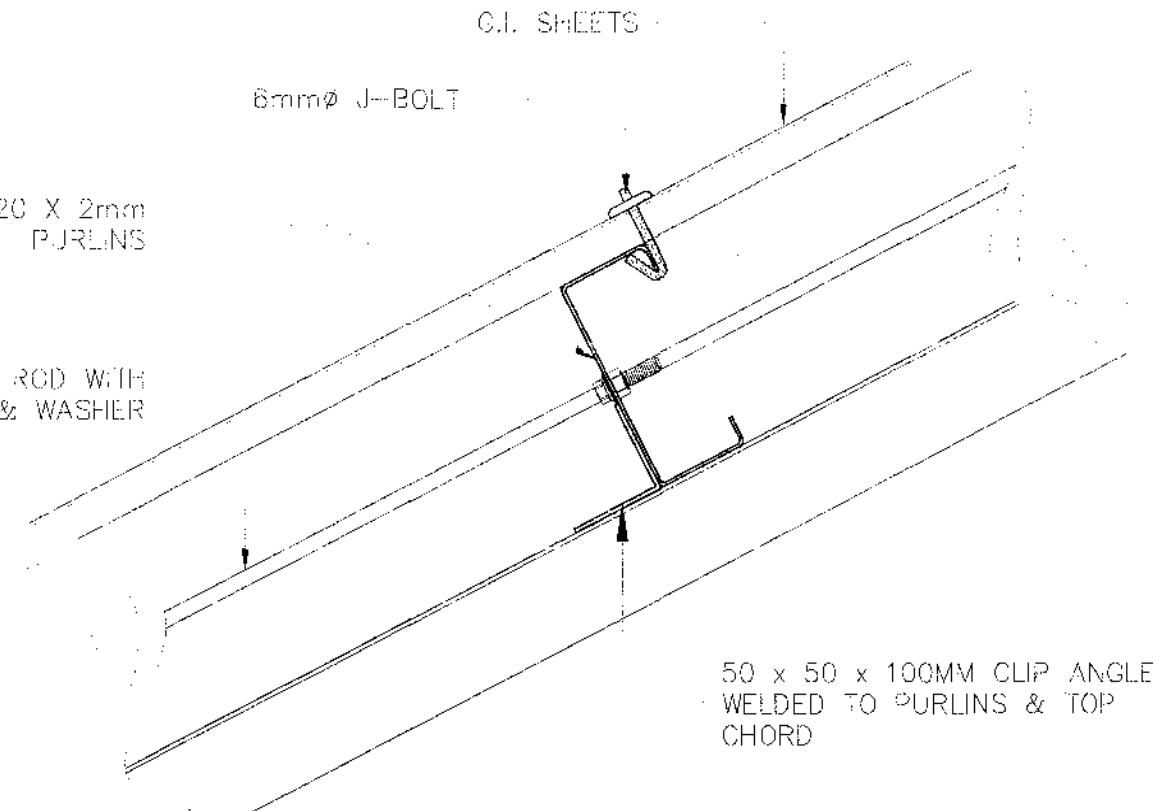
1:35 METERS



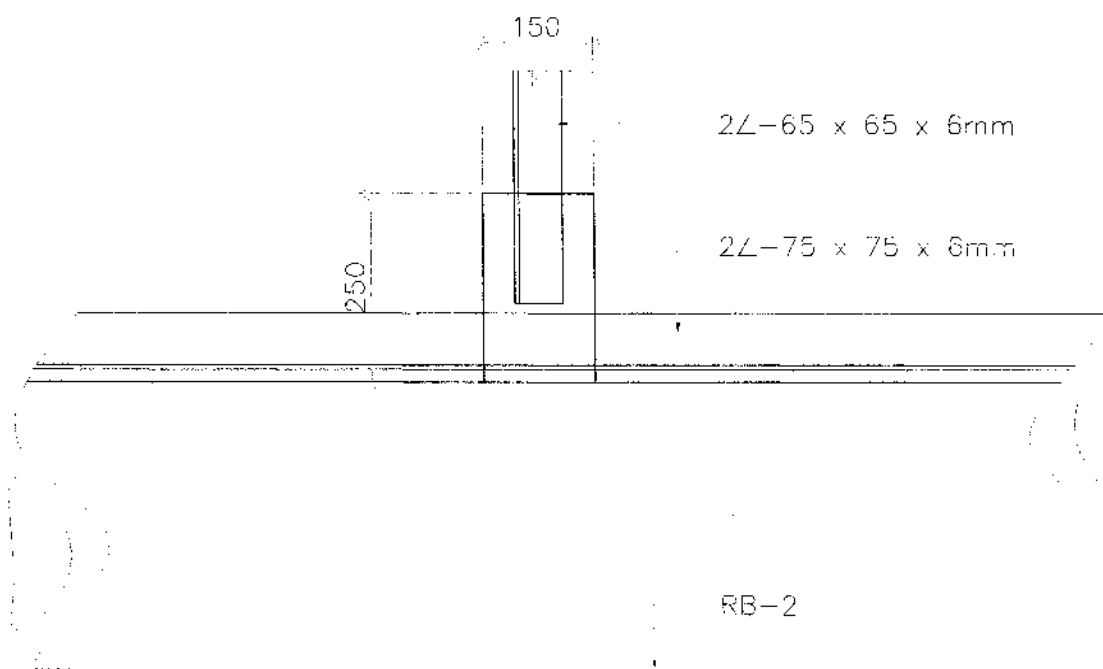
1 DETAIL - 1
S23 SCALE 1:10 METERS



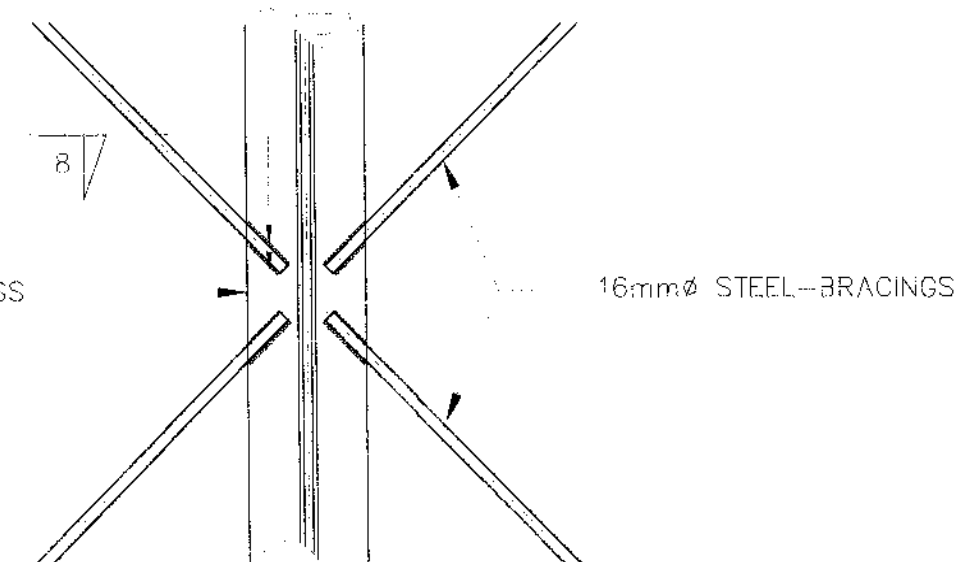
2 DETAIL - 2
S23 SCALE 1:10 METERS



4 CONN. OF G.I. SHEET ROOFING TO PURLIN
S23 SCALE 1:5 METERS



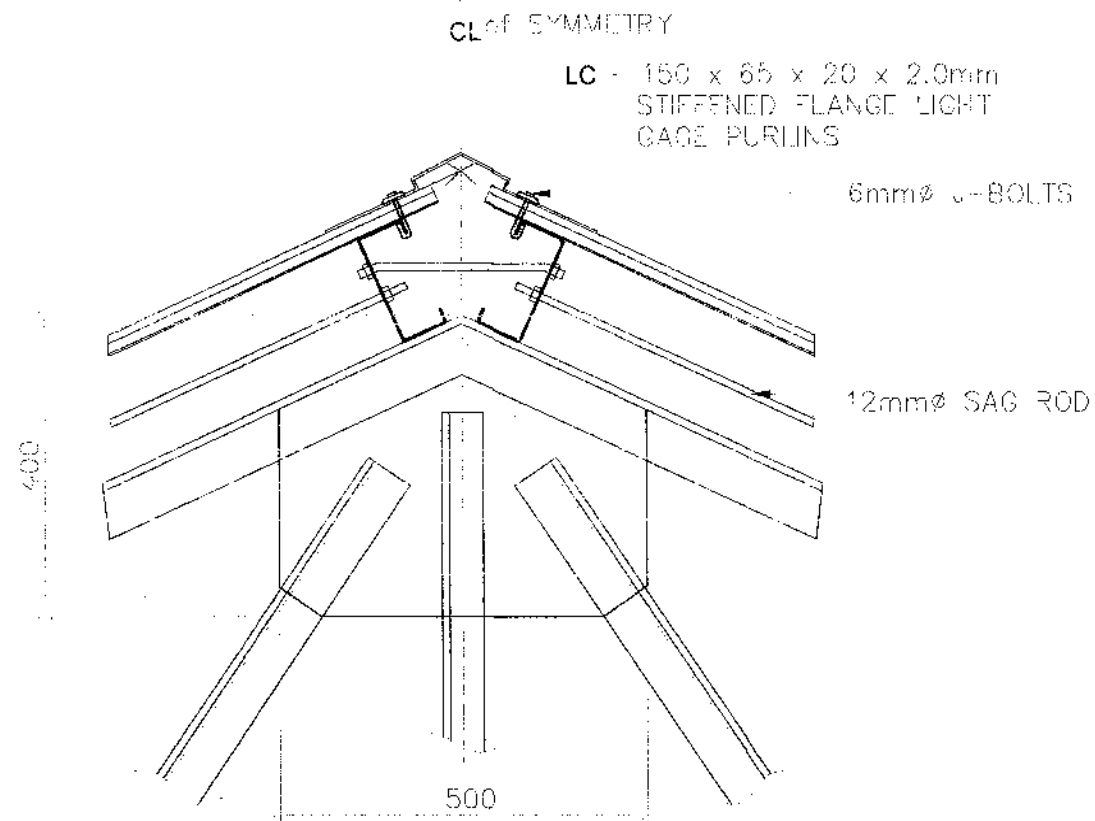
3 DETAIL
S23 SCALE 1:10 METERS



5 DETAIL CONN. OF CROSS-BRACING
S23 SCALE 1:10 METERS

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

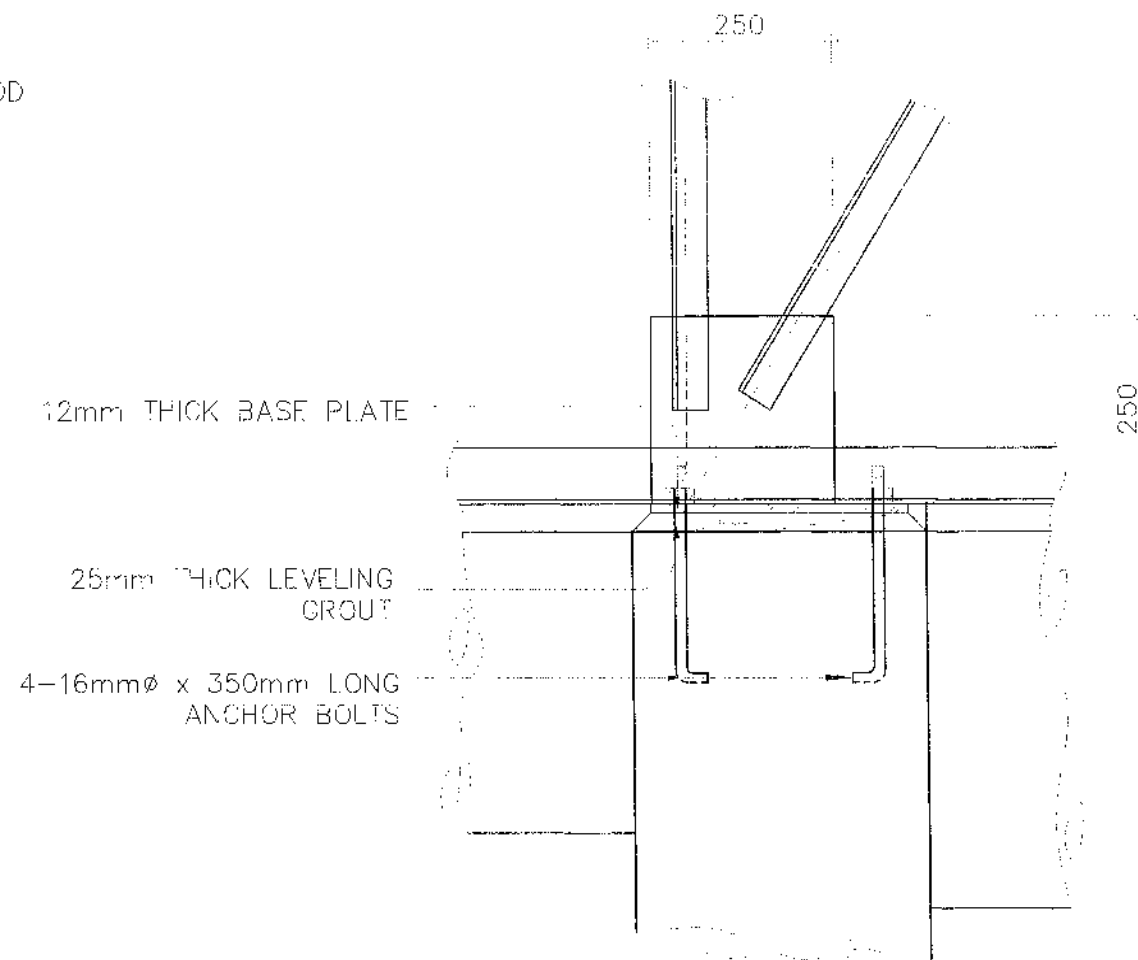
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



1
S24

DETAIL - 3

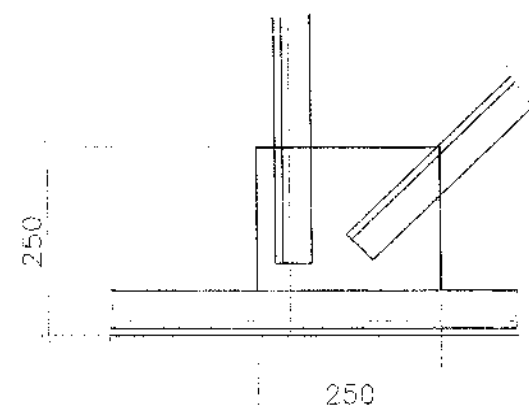
SCALE 1:10 METERS



3
S24

TRUSS - BEAM CONNECTION DETAIL

SCALE 1:10 METERS



2
S24

DETAIL - 4

SCALE 1:10 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADJAN CITY

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED
CARMELITA A. PENALES JR.
DATE 07/29/25

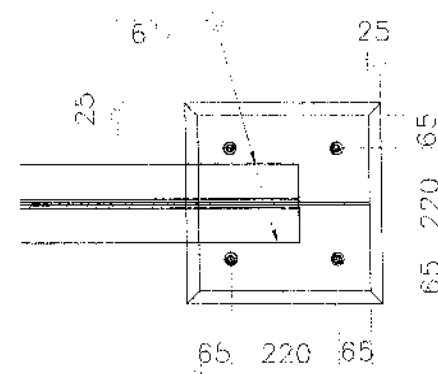
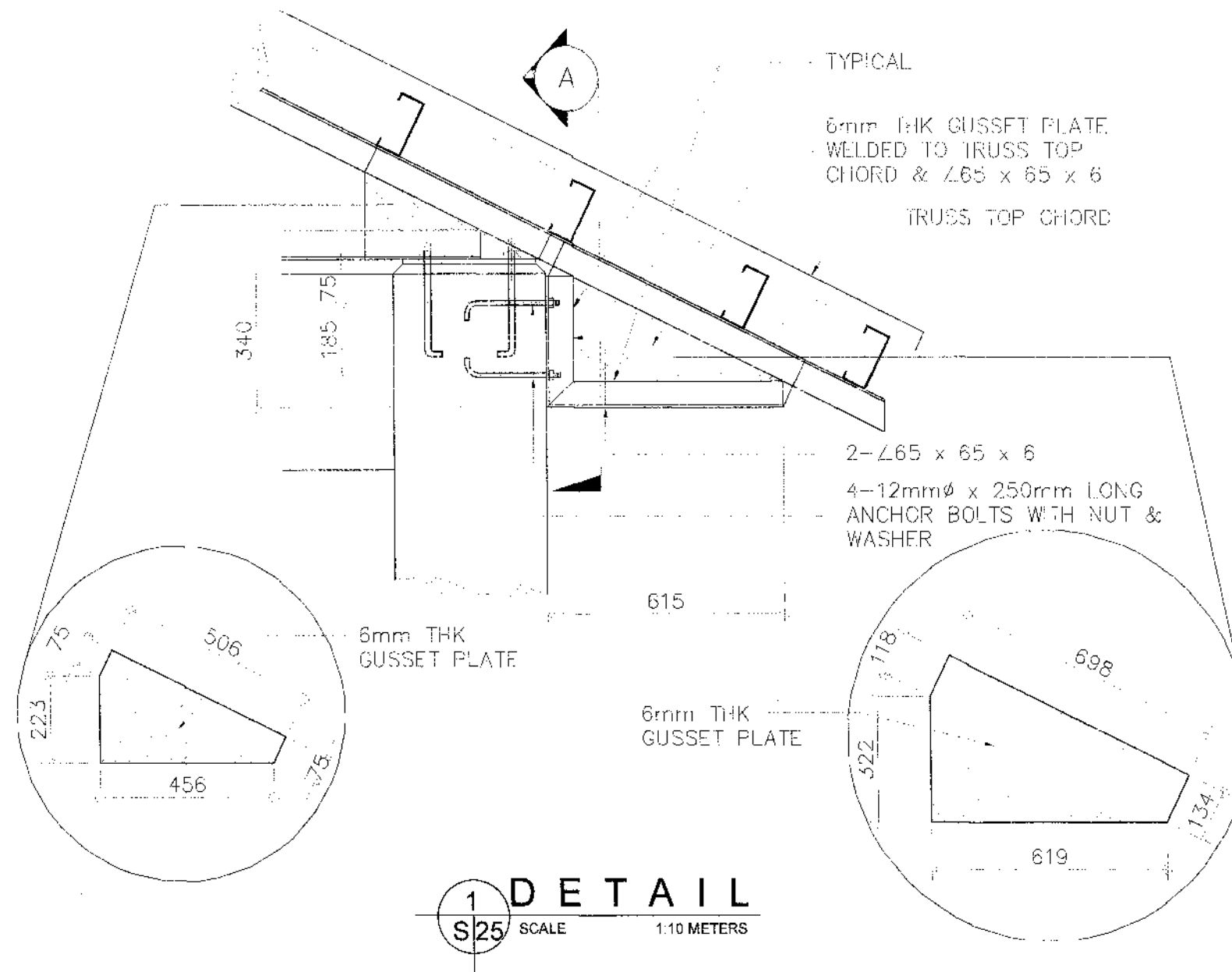
REVIEWED
GRACEY COMANING
ASST. CHIEF ENGINEER
DATE 07/29/25

SUBMITTED
MARIA U. FLOREN
CHIEF PLANNING AND DESIGN SECTION
DATE 07/29/25

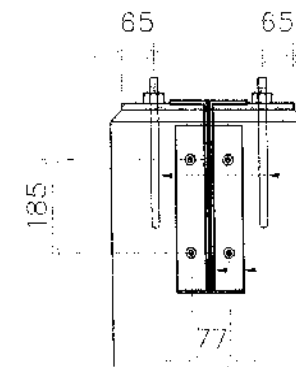
RECOMMENDED
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE 07/29/25

APPROVED
PABLO L. ESCUADRO MPA
DISTRICT ENGINEER
DATE 07/29/25

SET NO. 24
SHEET NO. 64
S37 98



PLAN



SECTION A

4-16mmØ x 350mm LONG
ANCHOR BOLTS

2-∠65 x 65 x 6

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGALIAN CITY

PROJECT NAME AND LOCATION

CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS

• AS SHOWN

DESIGNED BY

CARMELITO A. PENALES JR.
ENGINEER

DATE

07/29/25

REVIEWED

GRACEY GOMALING
ENGINEER

ASST. CHIEF, PLANNING AND DESIGN SECTION

DATE

07/29/25

SUBMITTED

SEBASTIAN A. ANDAYA
ENGINEER

CHIEF, PLANNING AND DESIGN SECTION

DATE

07/29/25

RECOMMENDED

MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER

DATE

07/29/25

APPROVED

PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER

DATE

07/29/25

SHEET NO.

25
S37

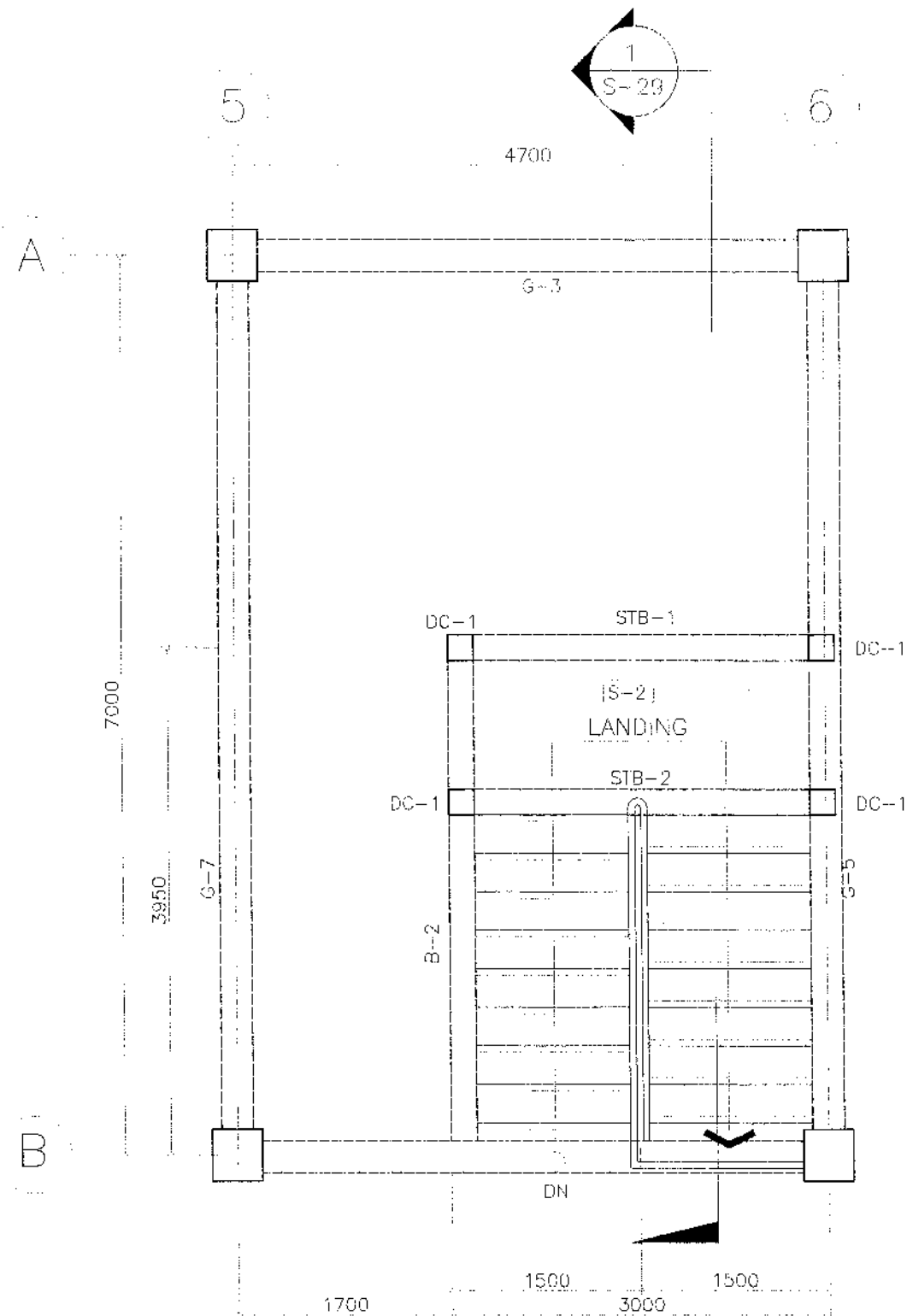
SHEET NO.

65
98

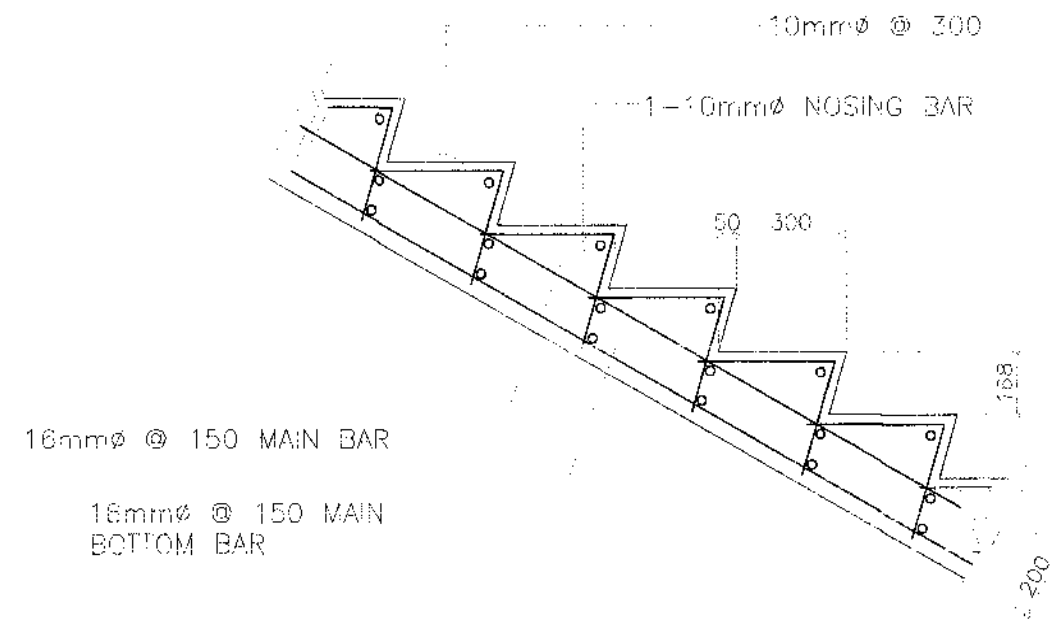


THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

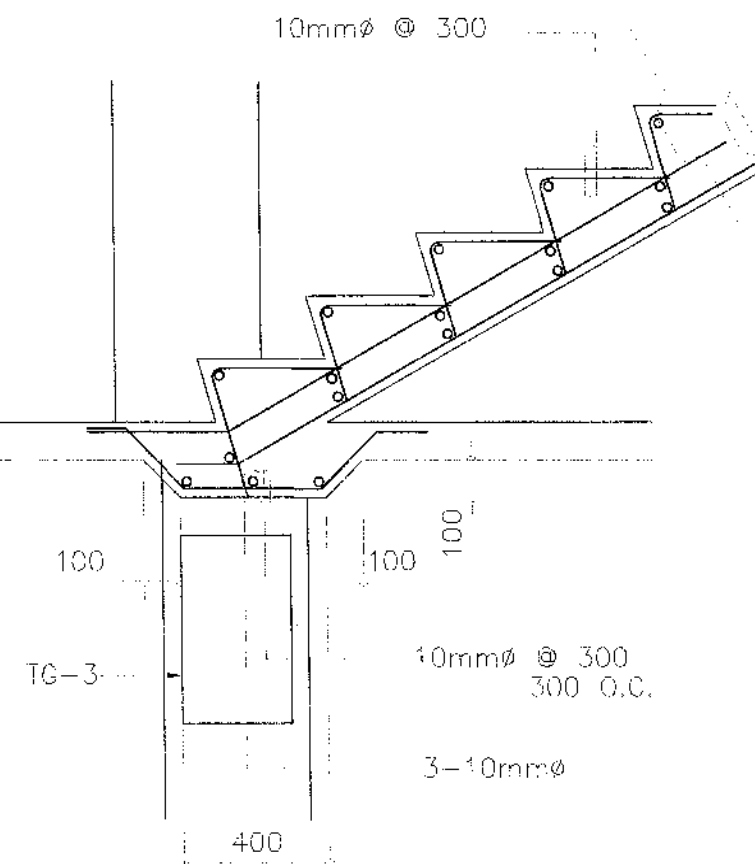




1 STAIR FRAMING PLAN
S27 SCALE 1:50 METERS



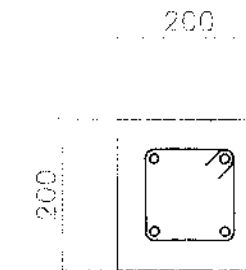
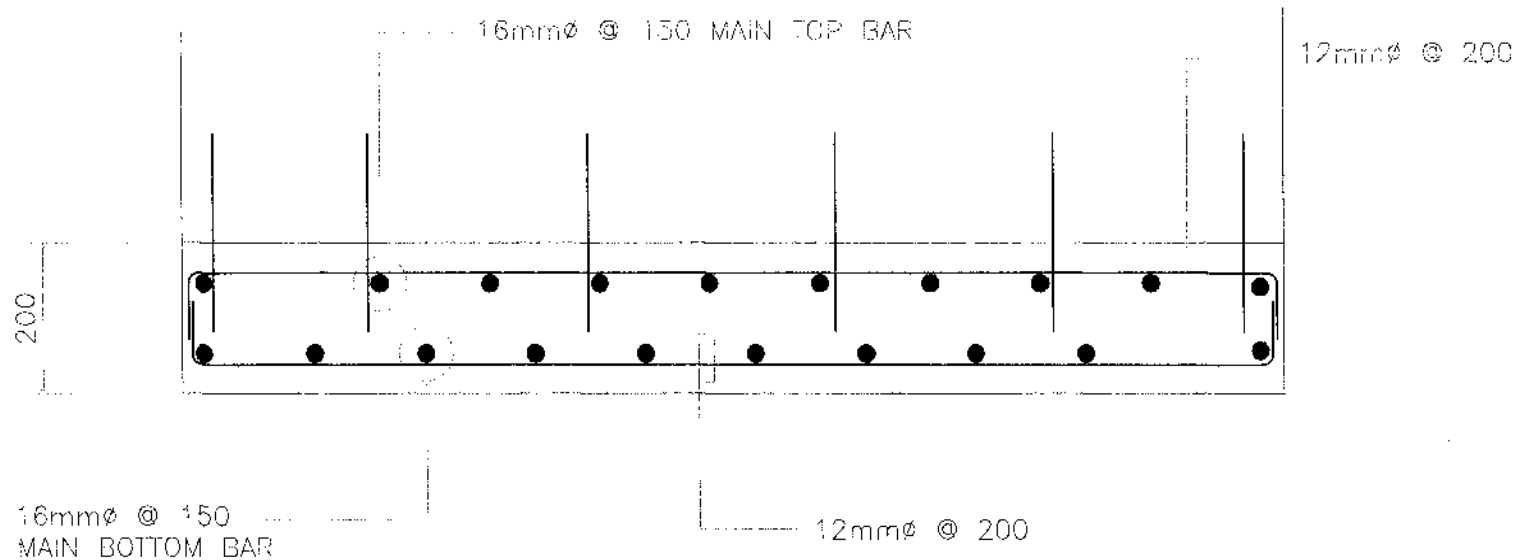
2 SPOT DETAIL
S27 SCALE 1:20 METERS



3 SPOT DETAIL
S27 SCALE 1:20 METERS

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

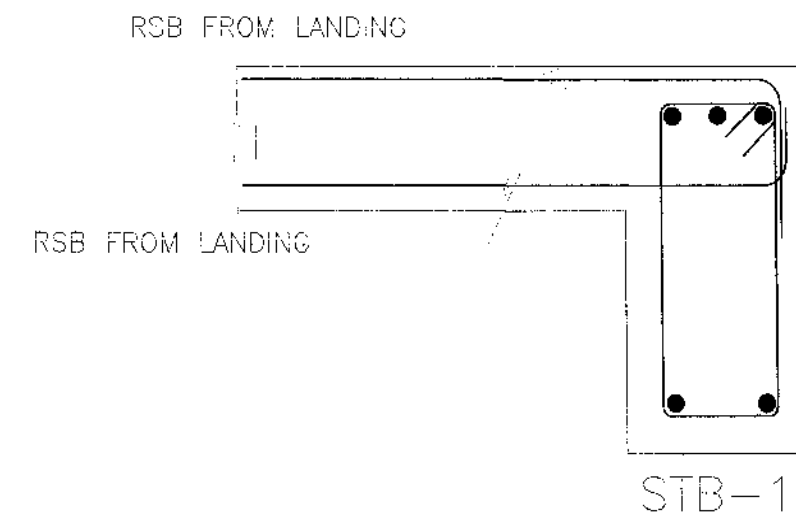


MAIN BAR:
4- ϕ 16mm

TIES : 10mm ϕ 1@50, 8@75,
REST @ 150mm TO
CENTER

(FROM LANDING TO 2ND FLOOR LEVEL)
DETAIL - DC - 1

2
S28 SCALE 1:20 METERS



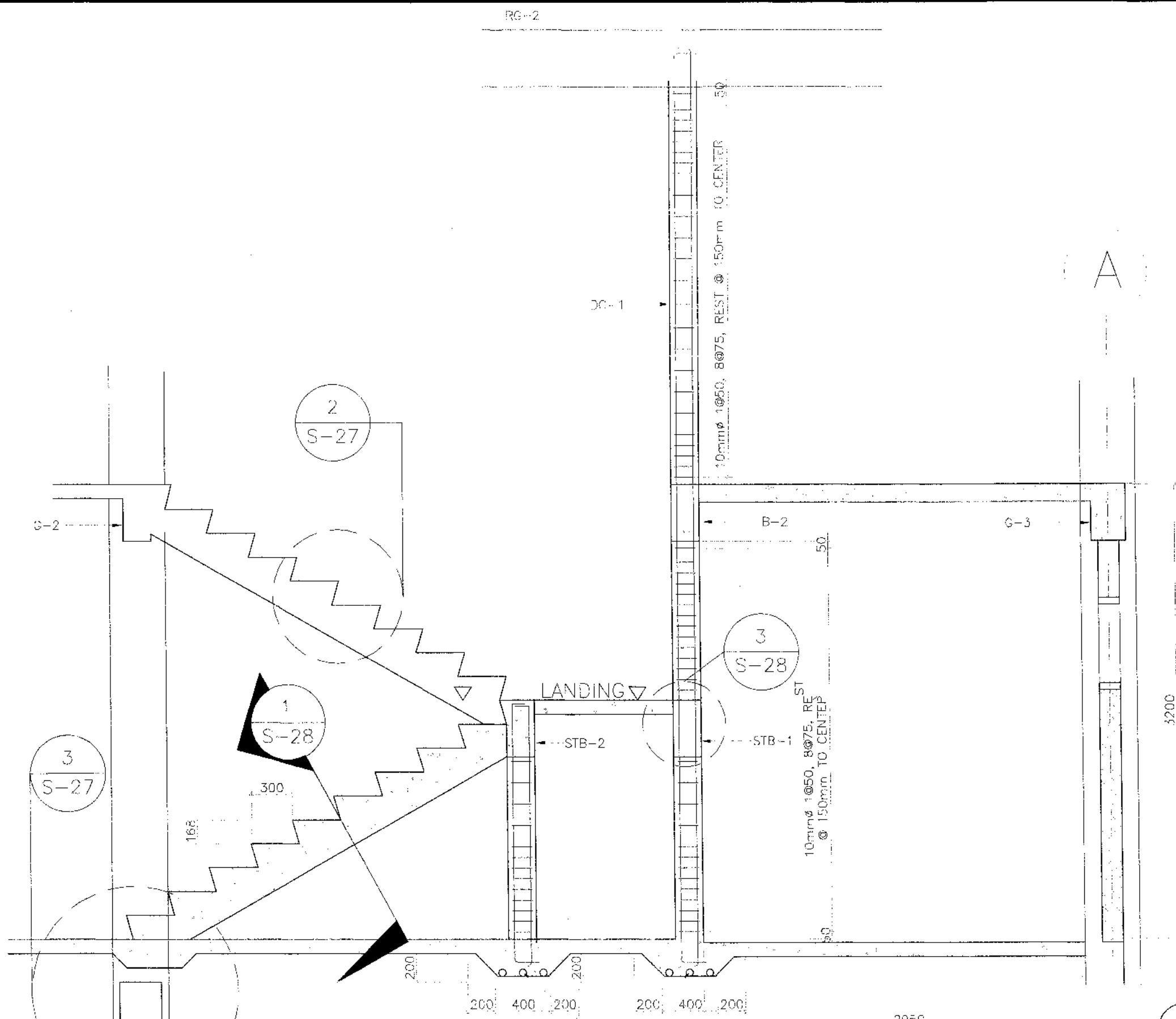
3
S28 SCALE 1:20 METERS

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE
REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184,
APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED
ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS
NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER
FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN
NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE
APPROVING OFFICIALS.

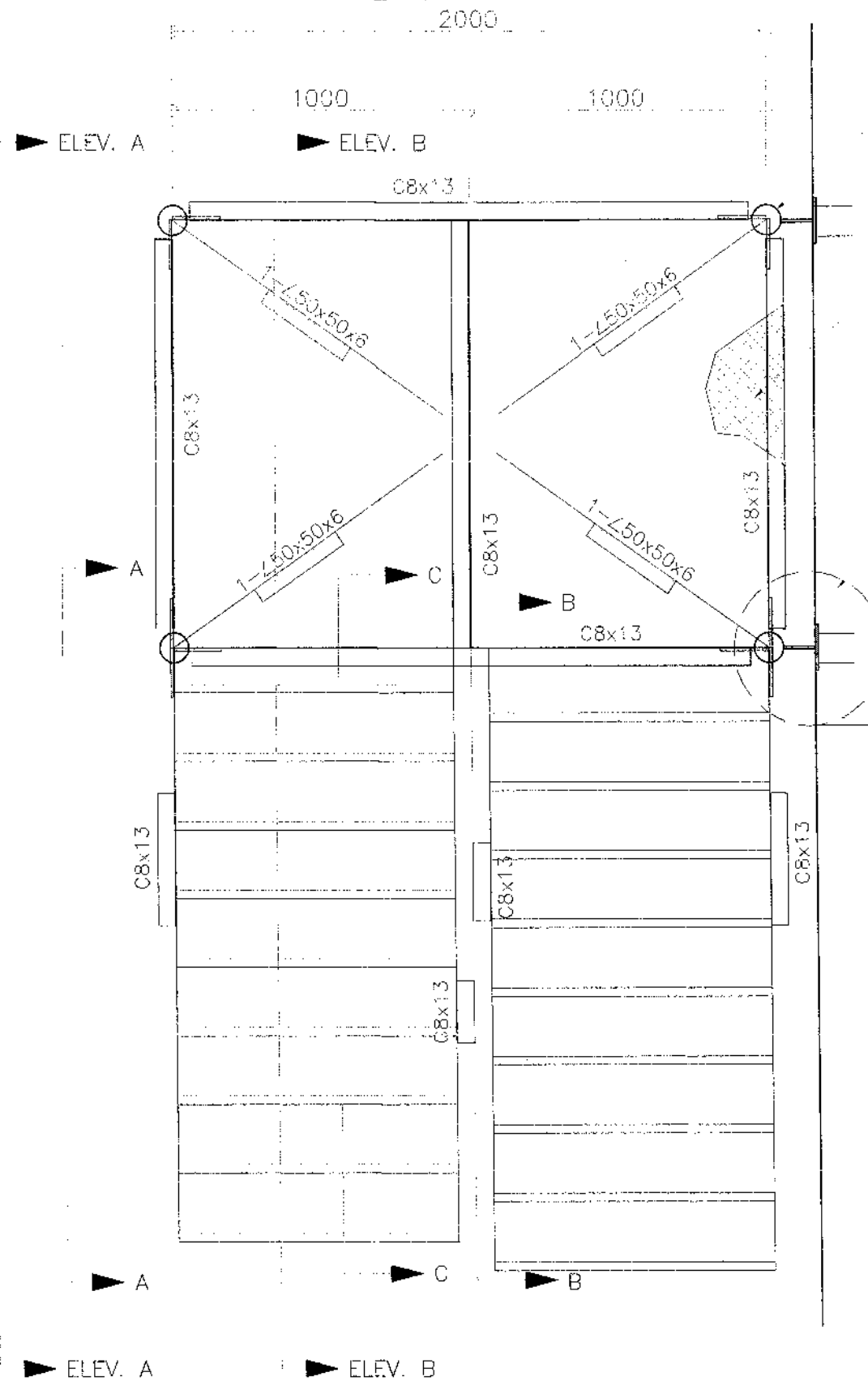
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE
FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES
DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE
WITHOUT THE CONFORMITY OF THE CONSULTANTS.

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 5404, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



1 STAIR SECTION DETAIL
S29 SCALE 1:50 METERS



4" SCHD. 40 PIPE
COLUMN (TYPE. 4 PLACES)

6mm THK. CHECKERED
PLATE FLOORING (TYP.)

BEAM

1
S-37

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE
REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184,
APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED
ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS
NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER
FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN
NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE
APPROVING OFFICIALS.

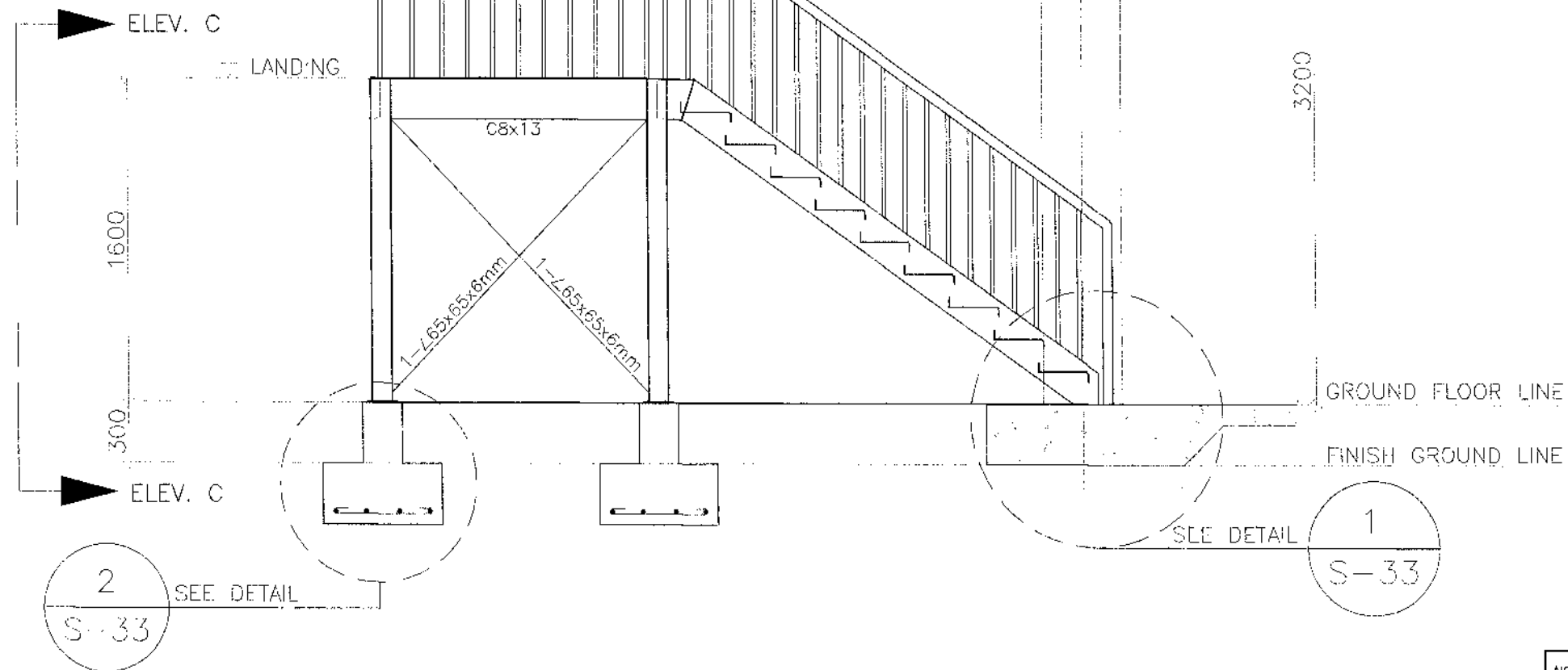
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE
FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES
DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE
WITHOUT THE CONFORMITY OF THE CONSULTANTS.

1 S30 **FIRE ESCAPE FRAMING PLAN** SCALE 1:20 METERS

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

20x20mm SQ. BAR
RAILING @125mm OC



**ELEVATION A - A
FIRE ESCAPE ELEVATION**
SCALE 1:30 METERS

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	PREPARED BY:	REVIEWED BY:	SUBMITTED BY:	RECOMMENDED BY:	APPROVED BY:	SET NO.	SHEET NO.
	CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	AS SHOWN	CARMELITO REYNALDES JR.	GRACEY COMALING	GRAND VICTORIANO	MARIA U. FLOREN	PABLO L. ESCUADRO MPA	31	71
			DATE: 04/28/25	DATE: 04/29/25	DATE: 04/29/25	DATE: 04/29/25	DATE: 04/29/25	S37	98

50mmØ GI PIPE HANDRAIL
(PAINT FINISH)

20x20mm SQ. BAR
RAILING @125mm OC

1600

LANDING

1600

GROUND FLOOR

20x20mm SQ. BAR
RAILING @125mm OC

2ND FLOOR

4" SCHD. 40 PIPE
COLUMN

3200

2000

50mmØ GI PIPE HANDRAIL
(PAINT FINISH)

C8x13

1-L65x65x6mm

1-L65x65x6mm

ELEVATION C - C FIRE ESCAPE ELEVATION

2
S32

SCALE

1:30 METERS

ELEVATION B - B FIRE ESCAPE ELEVATION

1
S32

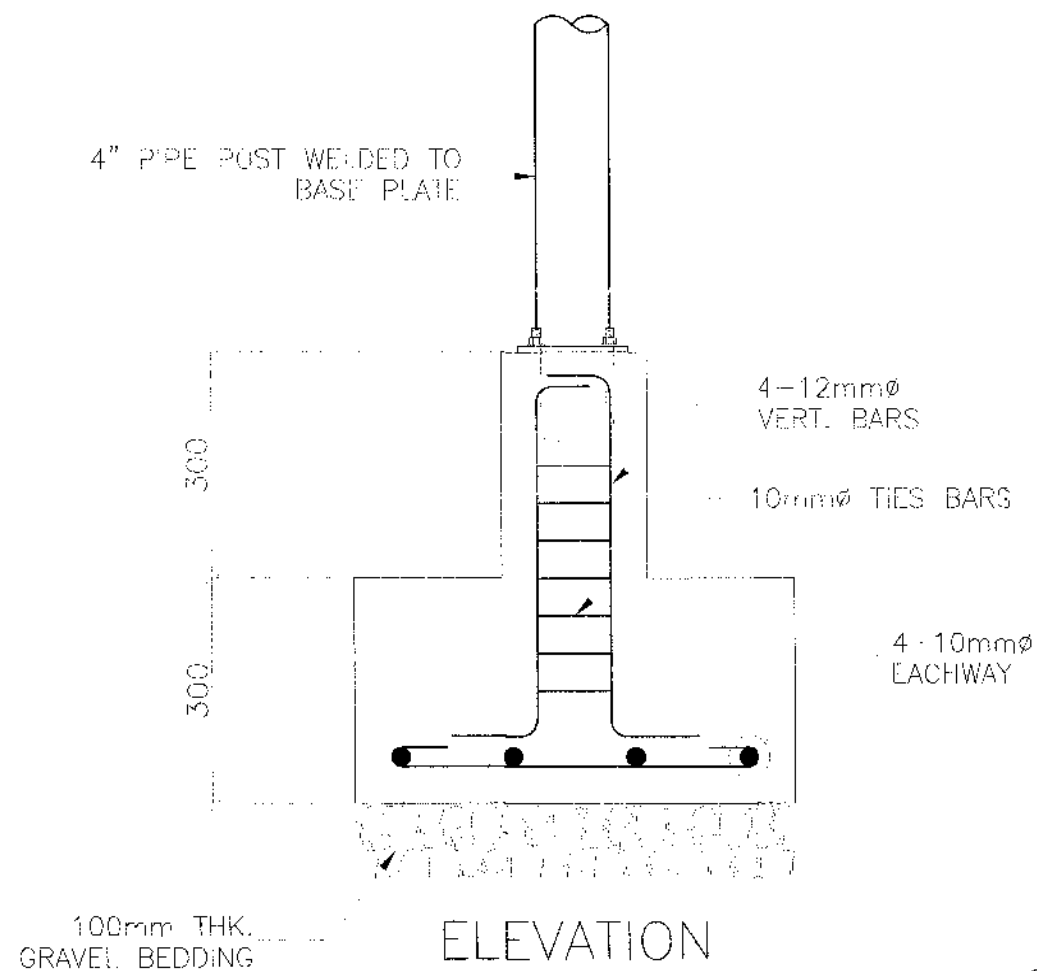
SCALE

1:30 METERS

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE
REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184,
APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED
ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS
NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER
FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN
NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE
APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE
FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES
DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE
WITHOUT THE CONFORMITY OF THE CONSULTANTS.

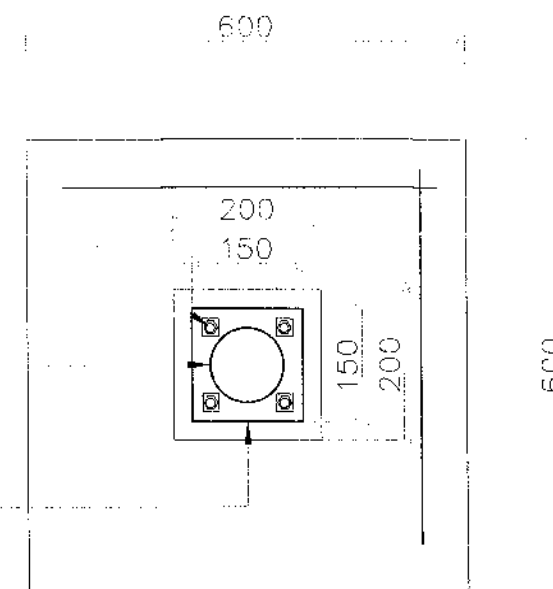
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADJAN CITY	PROJECT NAME AND LOCATION CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	SHEET CONTENTS • AS SHOWN	PREPARED CARMELITO A. PEÑALES JR. DATE: 07/20/25	REVIEWED GRACEY COMALING ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 07/20/25	RECOMMENDED BRIAN E. VILLANUEVA CHIEF, PLANNING AND DESIGN SECTION DATE: 07/20/25	APPROVED MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 07/20/25	APPROVED PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 07/20/25	SET NO. 32 S37 SHEET NO. 72 98
---	---	--------------------------------------	---	---	--	--	---	--



4- $\varnothing$ 12mm ANCHOR BOLTS W/NUTS & WASHERS

4" PIPE POST WELDED TO BASE PLATE

8mm THK BASE PLATE



2
S33
SCALE 1:10 METERS

PLAN

12mm THK. BLIND FLANGE w/ SPIDER LEGS

4" PIPE POST

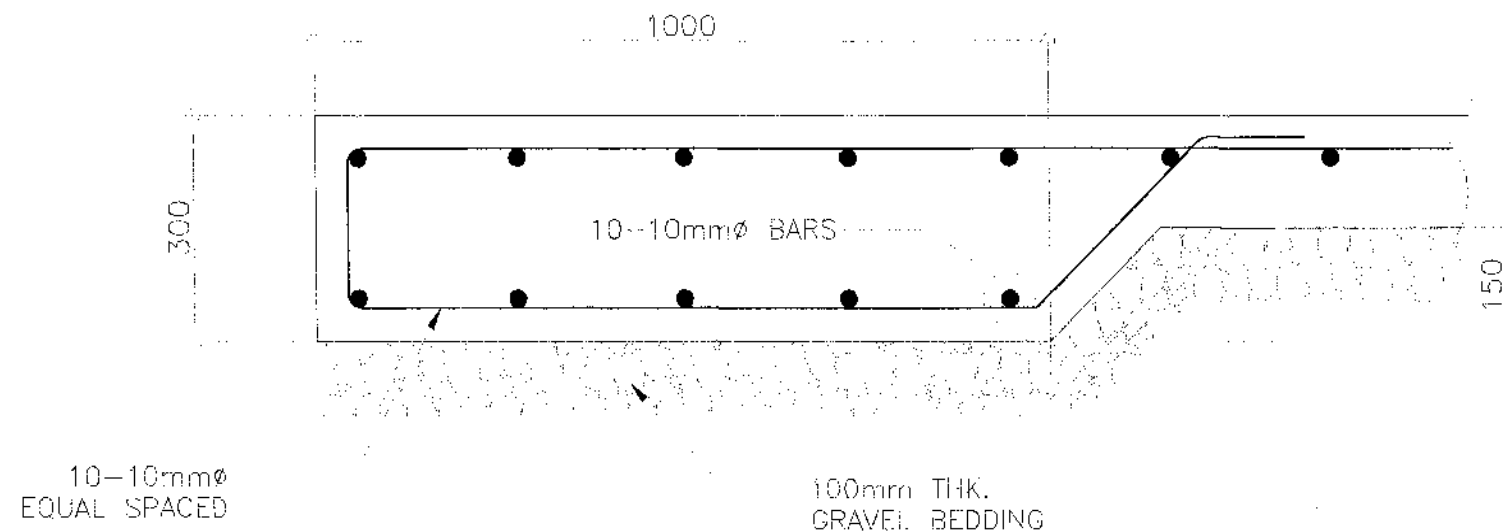
BEAM

10mm THK. GUSSET PLATE

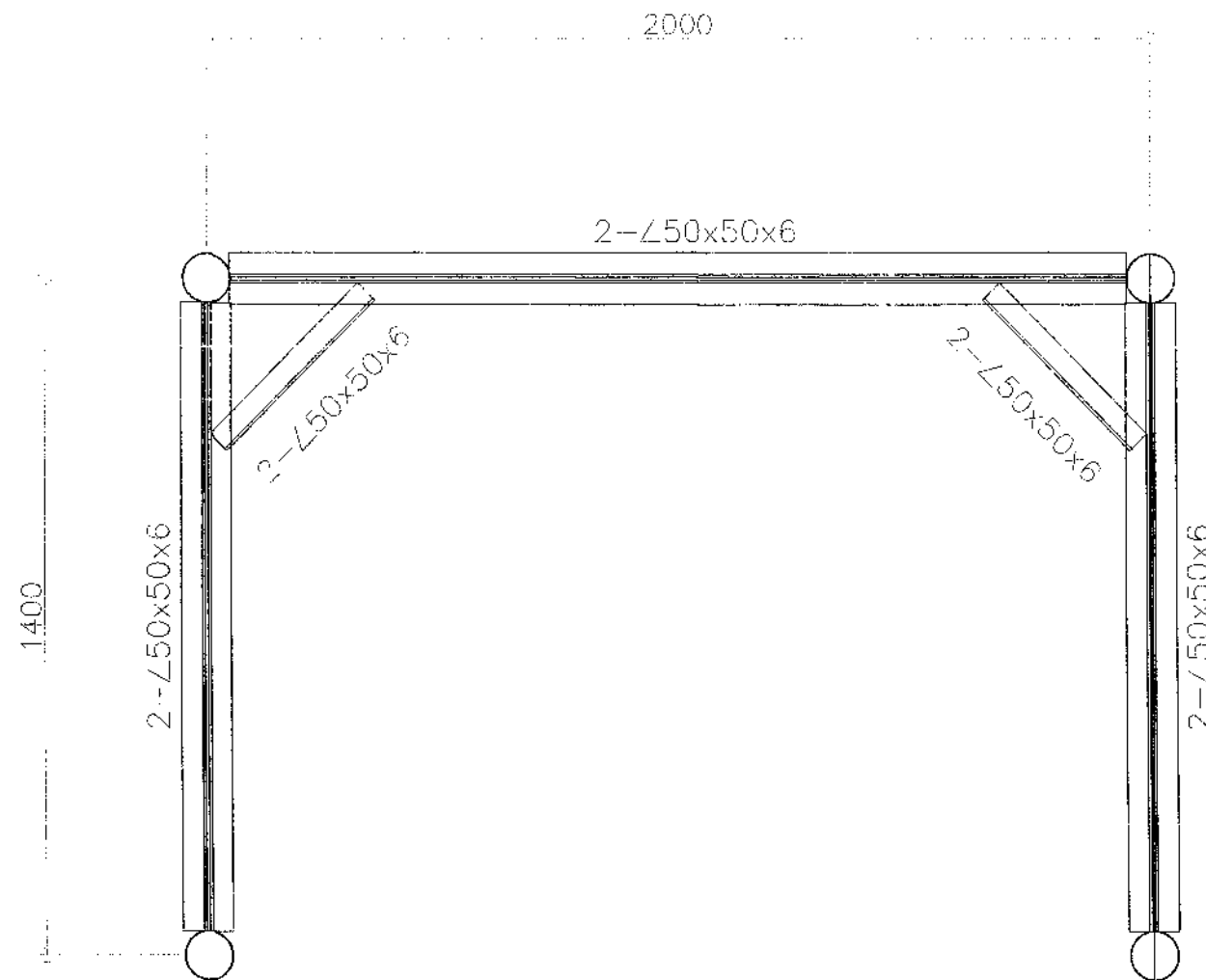
3
S33
SCALE 1:10 METERS

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9104, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



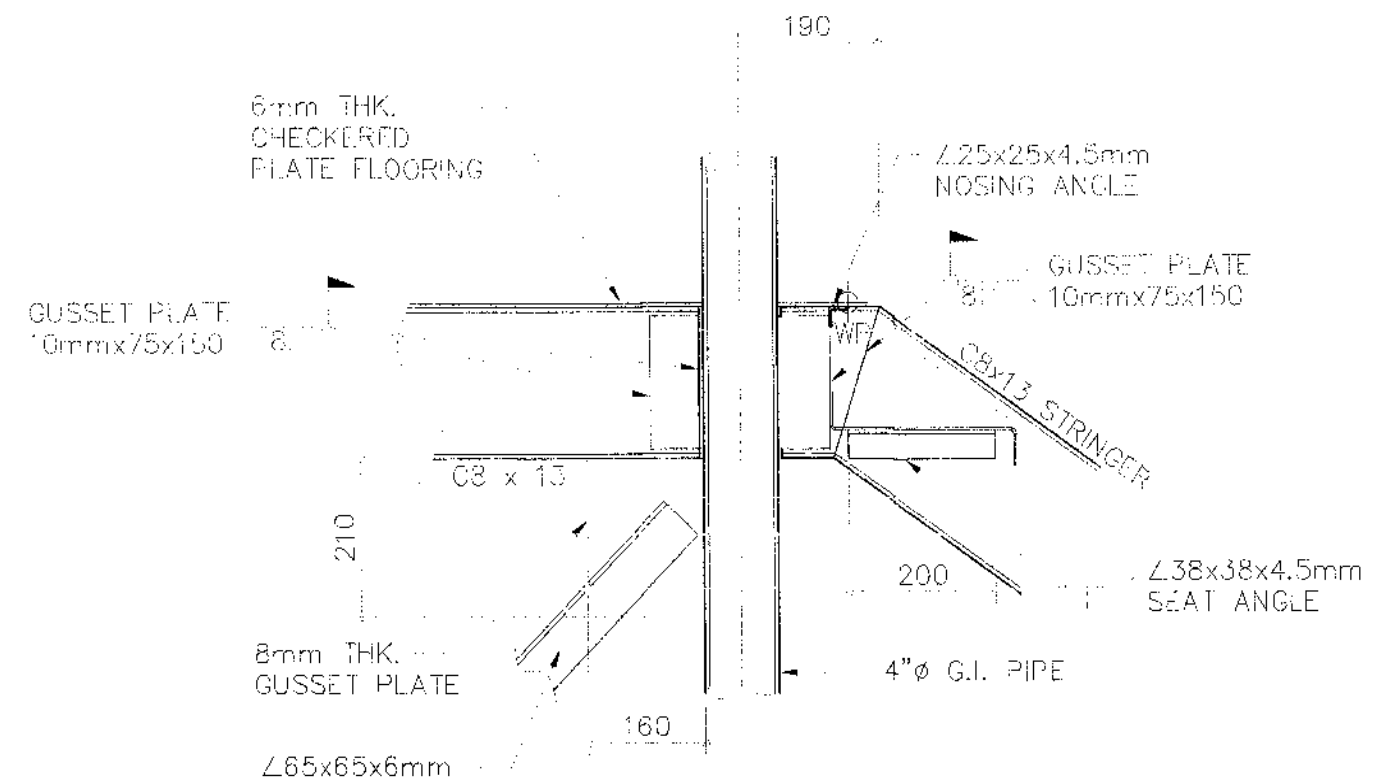
1
S33
SCALE 1:10 METERS



1 PLAN IN-BETWEEN LANDING
S34 SCALE 1:15 METERS

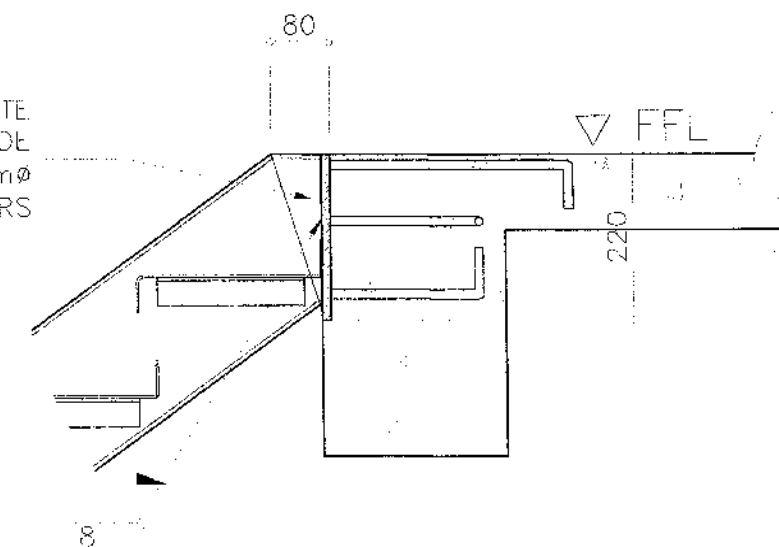
NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



2 DETAIL
S34 SCALE 1:10 METERS

SPIDER PLATE
12mm THK. X 100 WIDE
X 220 LONG W/ 12mm ϕ
ROUND BAR ANCHORS

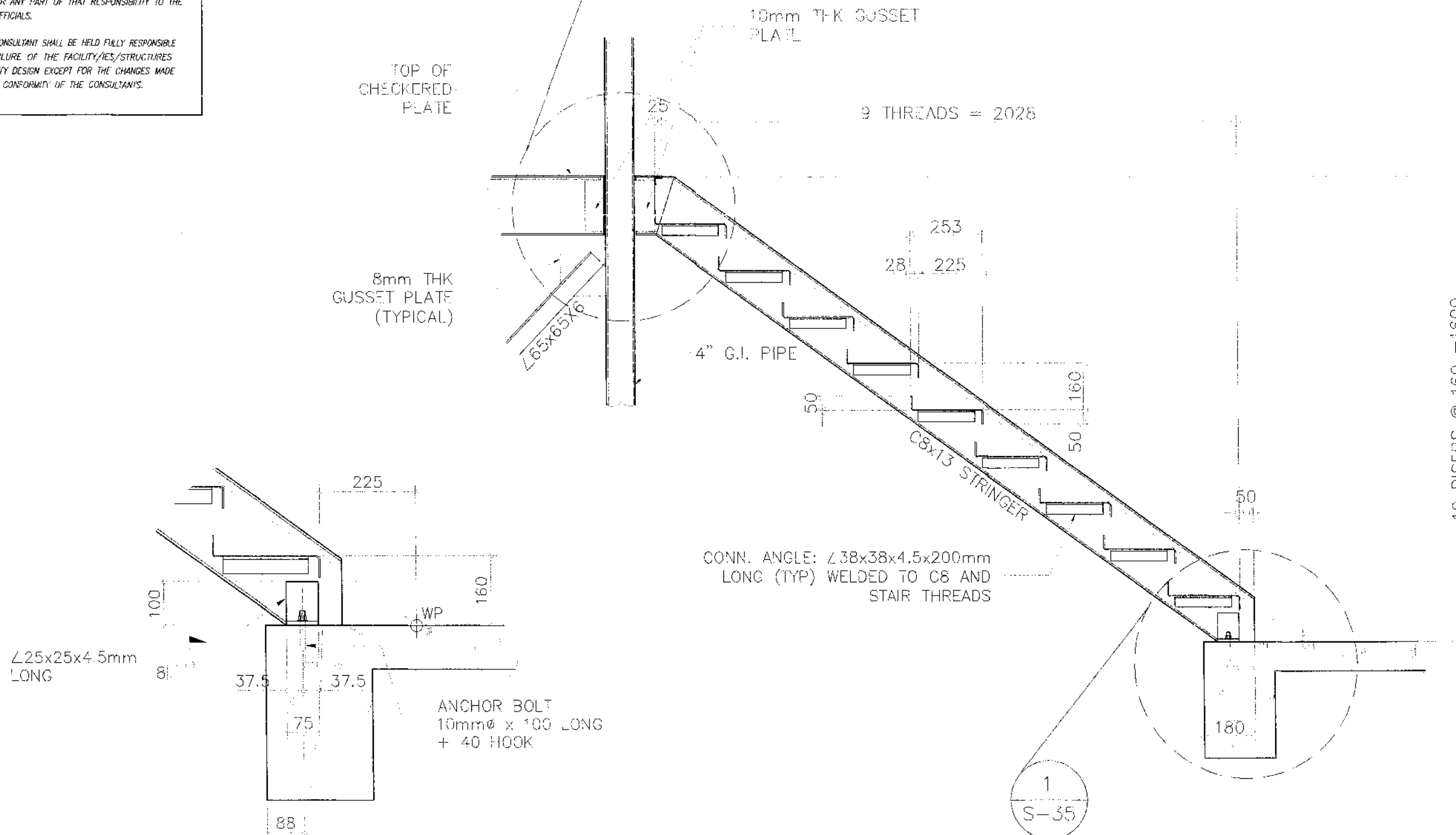


3 DETAIL
S34 SCALE 1:10 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9164, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANT'S.



1
S35
DETAIL
SCALE 1:10 METERS

2
S35
SECTION A - A
SCALE 1:15 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED
CARMELITO PENALES JR.
DATE 03/24/25

REVIEWED
GRACEY COMALING
ASST. CHIEF ENGINEER III
DATE 03/25/25

SUBMITTED
BRIGIDA VILLARDEVA
CHIEF, PLANNING AND DESIGN SECTION
DATE 03/28/25

RECOMMENDED
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE 04/29/25

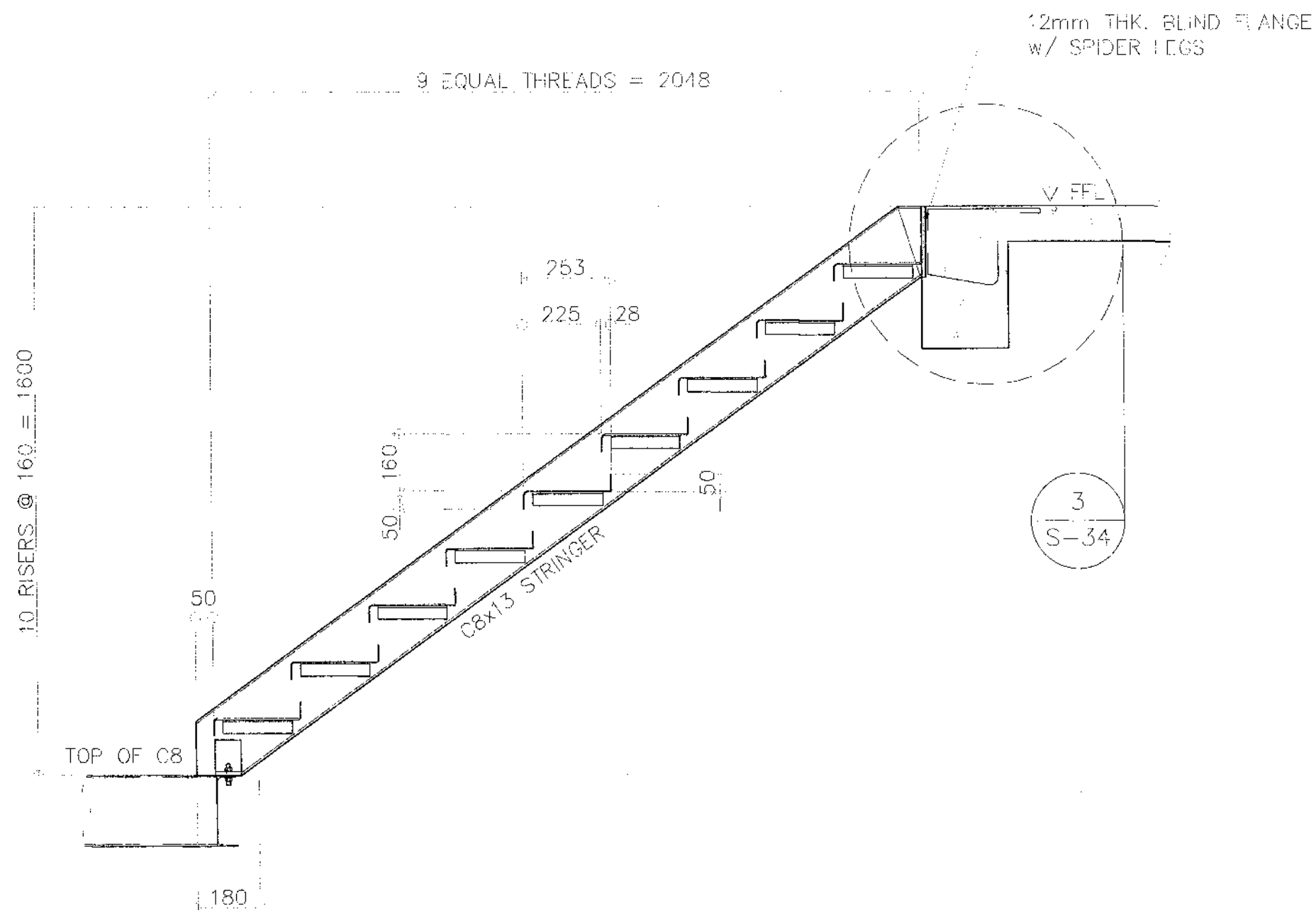
APPROVED
PABLO Z. ESCUADRO, MPA
DISTRICT ENGINEER
DATE 04/29/25

SET NO. 35
SHEET NO. 75
S37 98

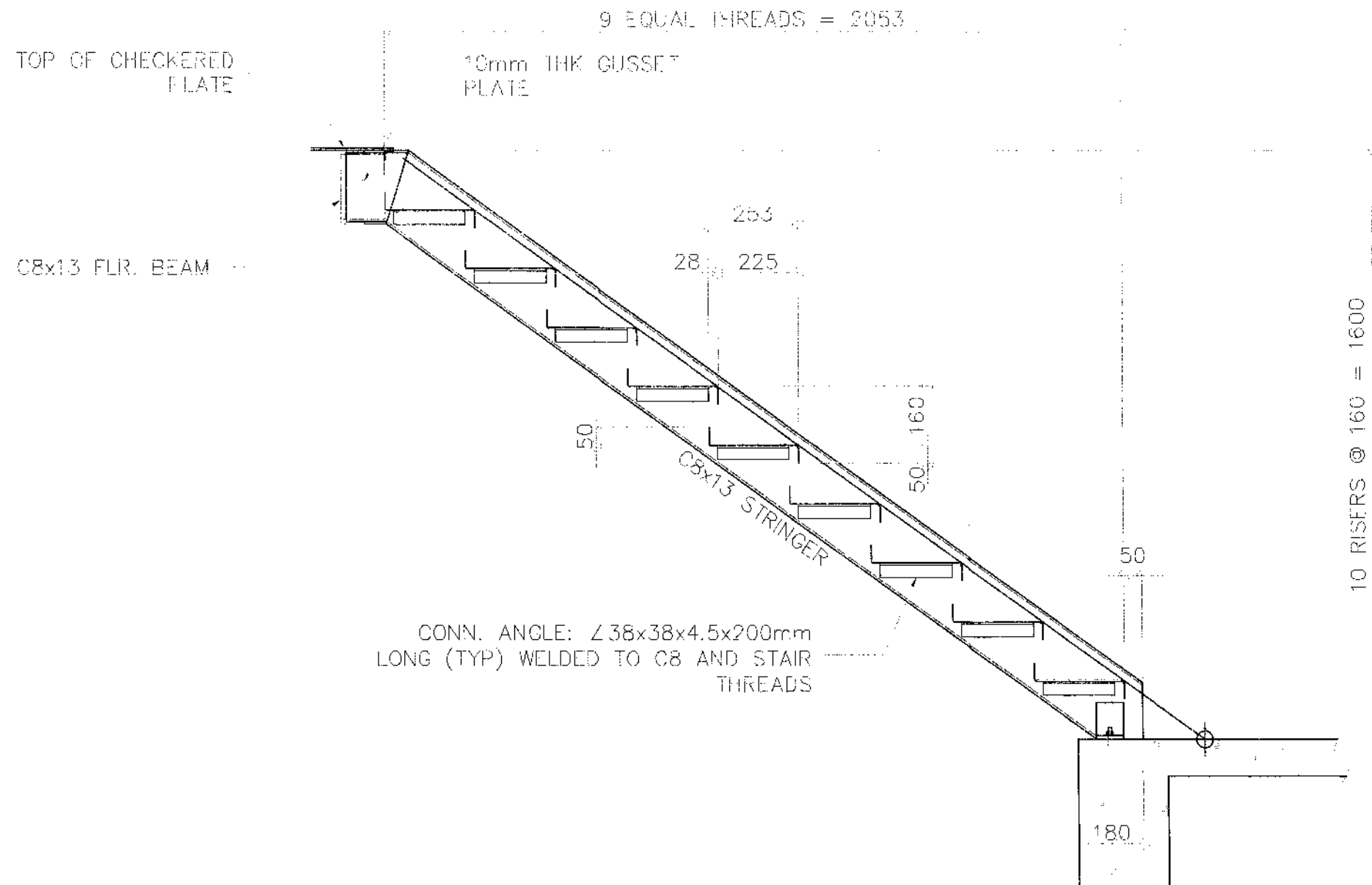
NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 5184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



1 SECTION B - B
S36 SCALE 1:15 METERS



NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

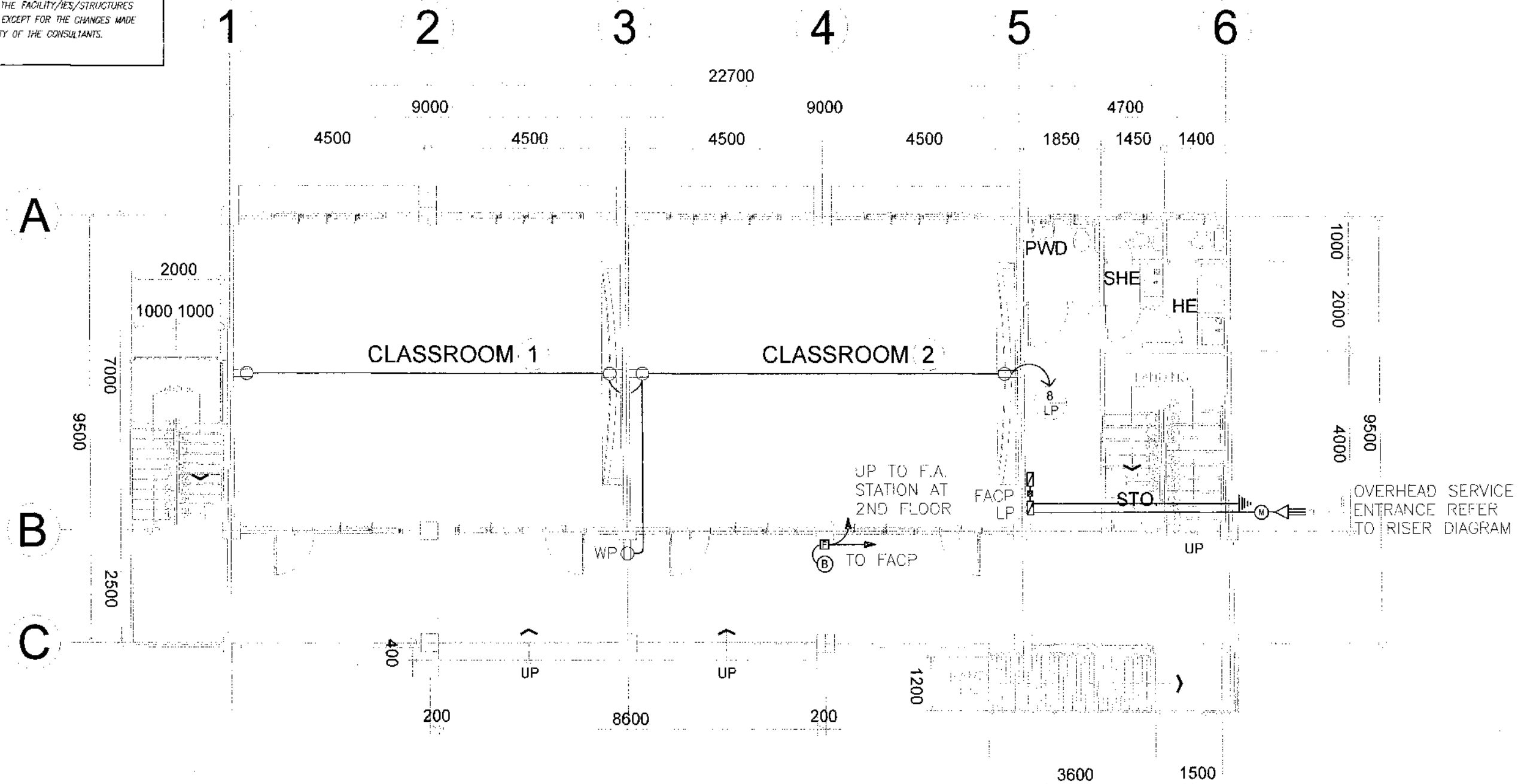
1
S37
SECTION C - C
SCALE 1:15 METERS

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	SHEET CONTENTS: • AS SHOWN	PREPARED: CARMELITO APENALES JR. DATE: 03/24/15	REVIEWED: GRACEY COMALING ASST. CHIEF ENGINEER II DATE: 03/24/15	SUBMITTED: BENARD WILLARDENA CHIEF PLANNING & DESIGN SECTION DATE: 03/24/15	RECOMMENDED: MARIA N. FLOREN ASSISTANT CHIEF ENGINEER DATE: 07/29/15	APPROVED: PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 07/29/15	SET NO. 37 SHEET NO. 77 98
---	--	---------------------------------------	--	---	--	---	--	---

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

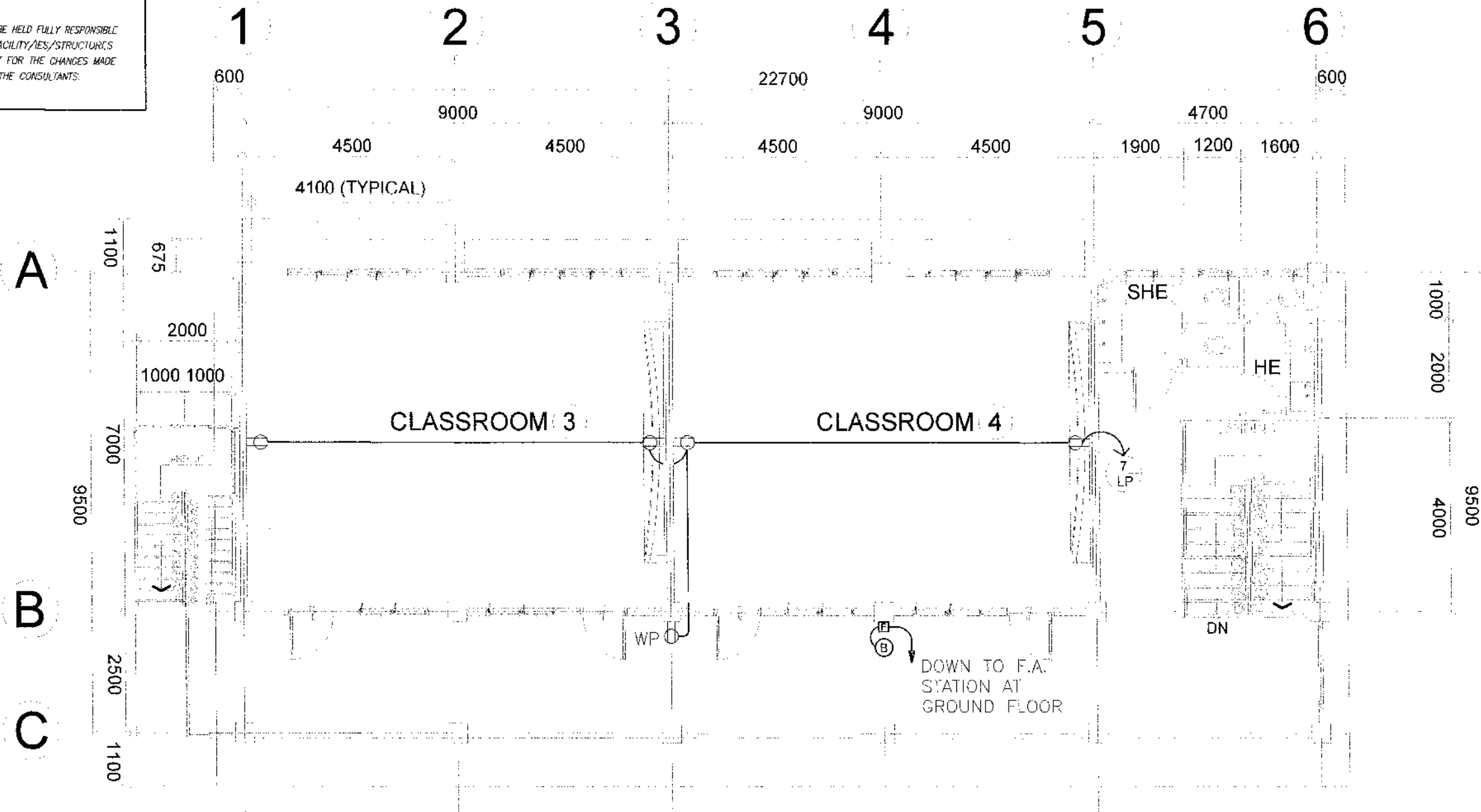


GROUND FLOOR POWER LAYOUT
SCALE 1:100 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF RA 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



1 SECOND FLOOR POWER LAYOUT
E 2 SCALE 1:100 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADJAL CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

DESIGNED BY:
DECILLE MARIDO
ENGINEER
DATE: 12/12/15

REVIEWED BY:
GRACEY COMALING
ENGINEER
DATE: 12/12/15

APPROVED BY:
BRIAN VILLAROSA
ENGINEER
DATE: 12/12/15

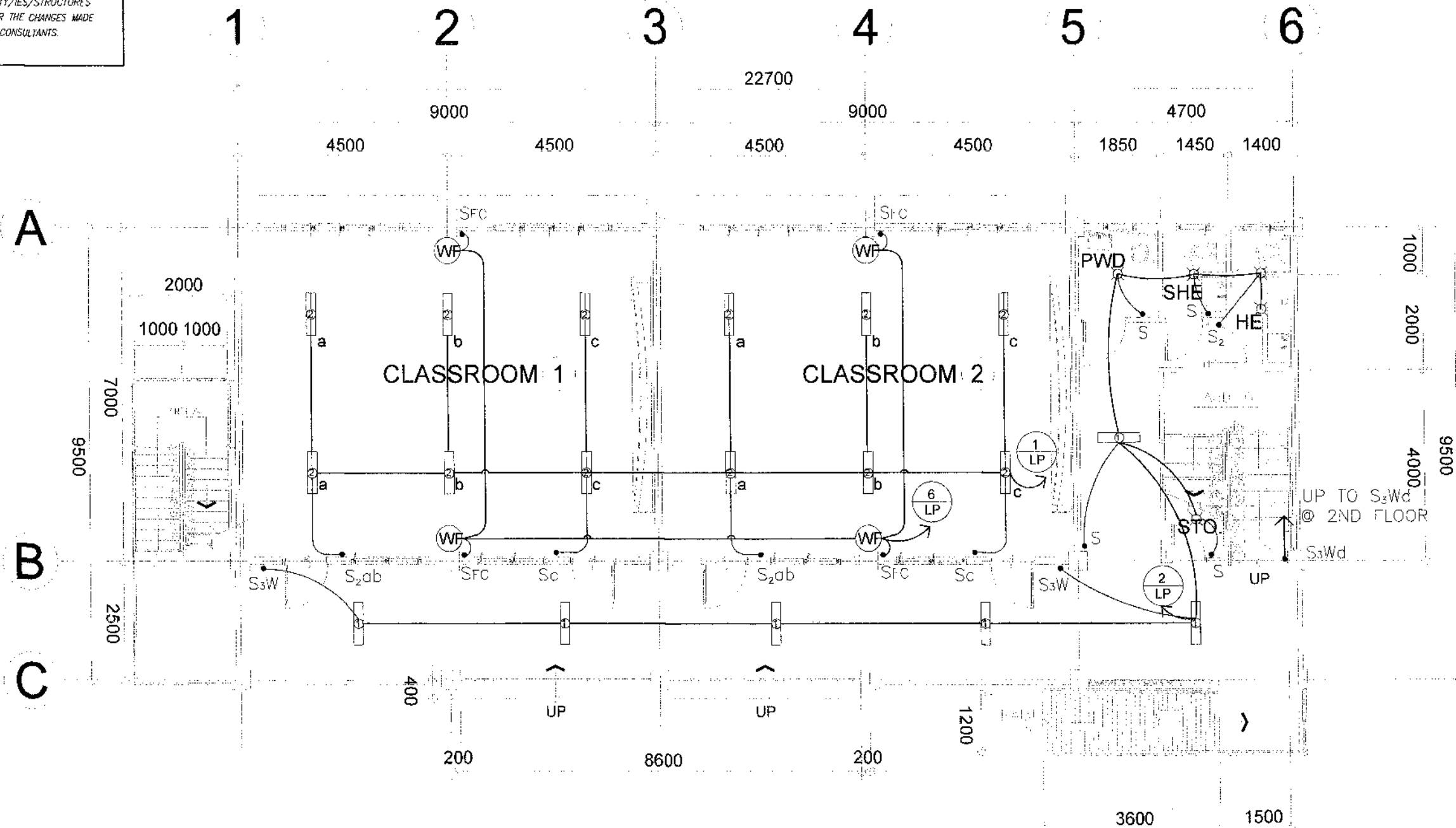
RECOMMENDED BY:
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 12/12/15

APPROVED BY:
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 12/12/15

SET NO. 02
E 06
SHEET NO. 79
98

NOTE:
 PURSUANT TO SECTION 4 OF ANNEX "A" OF THE
 REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 5454,
 APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED
 ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS
 NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER
 FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN
 NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE
 APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE
 FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES
 DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE
 WITHOUT THE CONFORMITY OF THE CONSULTANTS.



GROUND FLOOR LIGHTING LAYOUT
 SCALE 1:100 METERS

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 5184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



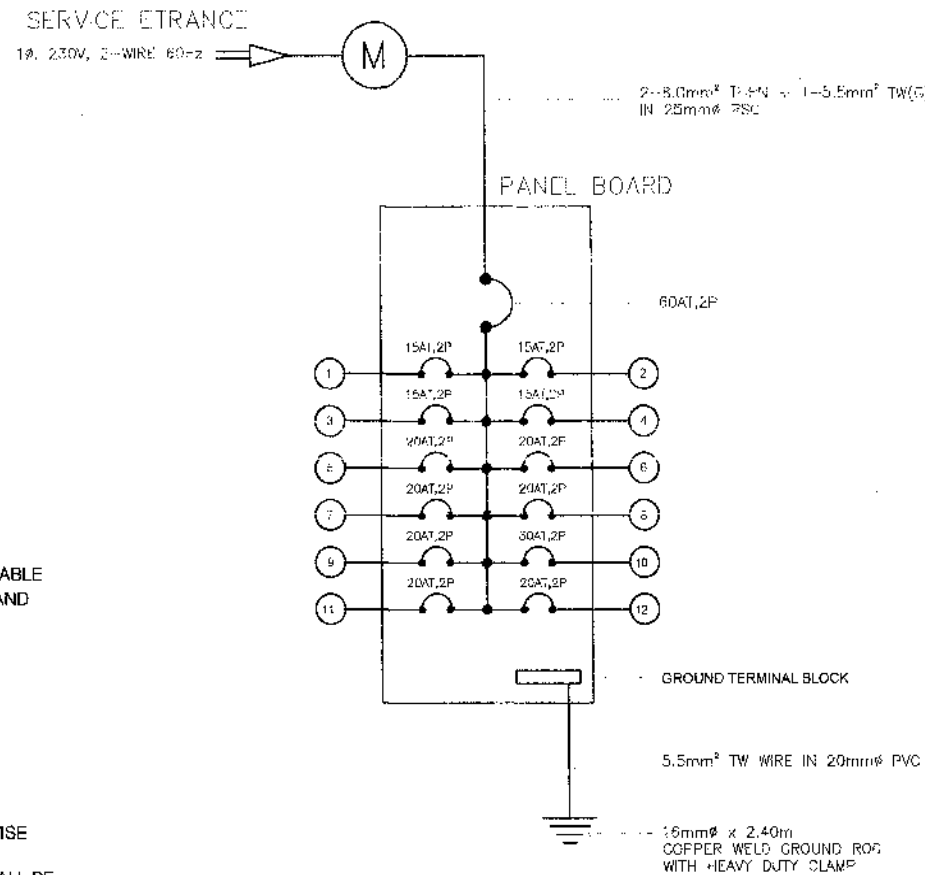
NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9164, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

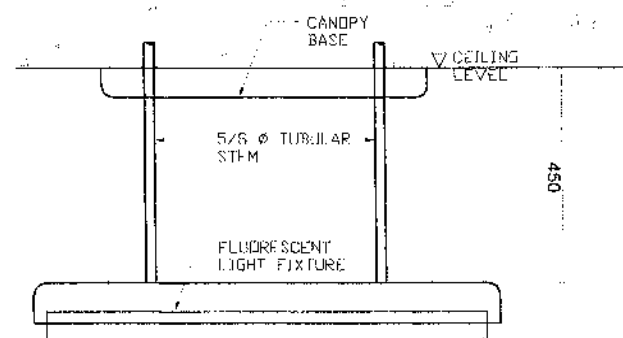
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

GENERAL NOTES :

- ALL ELECTRICAL WORKS SHALL COMPLY WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
- THE ELECTRICAL SERVICE POWER SHALL BE 1-PHASE, 2-WIRE, 230V AC, 60Hz.
- WIRING METHOD SHALL BE AS FOLLOWS:
RIGID STEEL CONDUIT OR POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 SHALL BE USED AS SPECIFIED IN THE PLAN.
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUNS SHALL BE 3.5mm² AND INSULATED FOR 600VOLTS. LIKE WISE, ALL CONDUCTORS SHALL BE COLOR-CODED. SMALLEST RACEWAY SHALL BE 15mmØ. (NOMINAL)
- ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED FOR THE PARTICULAR LOCATION AND USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
a. LIGHT SWITCH - 1.20M ABOVE FINISH FLOOR
b. CONVENIENCE OUTLET - 0.3M ABOVE FINISH FLOOR
- ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.



PANEL BOARD DIAGRAM
SCALE NOT TO SCALE



**FLUORESCENT LIGHT
FIXTURE MOUNTING DETAIL**
SCALE NOT TO SCALE

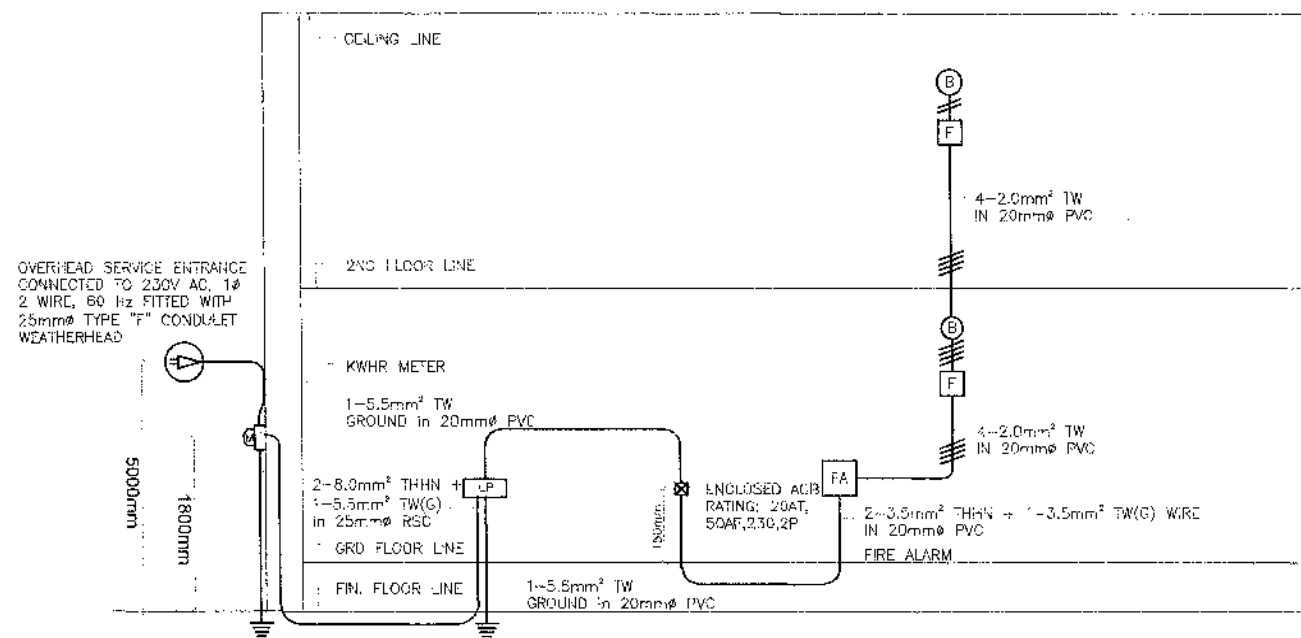
LEGEND

SYMBOL	DESCRIPTION
	- 1-18 WATTS COMPACT FLOURESCENT LAMP WITH MEDIUM BASE, KEYLESS TYPE PORCELAIN RECEPTACLE
	- 1 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE
	- 2 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE
	- 2 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE WITH CANOPY BASE AND STEM 1.5 FT. (450mm) LENGTH SIMILAR TO AMCO AP-1113-1.5 OR APPROVED EQUAL
	- WALL FAN OUTLET
	- SINGLE POLE WALL SWITCH
	- DUPLEX SWITCH, 2 SINGLE POLE SWITCHES ON ONE-GANG SWITCH PLATE
	- THREE WAY WALL SWITCH
	- FAN CONTROL SWITCH
	- RACEWAY CONDUIT CONCEALED IN CEILING
	- RACEWAY CONDUIT CONCEALED UNDER FLOOR
	- PANELBOARD, MARKED AS "LP"
	- CKT. BREAKER, RATING AS INDICATED
	- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 15 AMPS, 240 VOLT
	- WEATHERPROOF DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 15 AMPS, 240 VOLT
	- CIRCUIT HOMERUN
	- ENCLOSED AIR CIRCUIT BREAKER
	- FIRE ALARM CONTROL PANEL
	- FIRE ALARM STATION OUTLET
	- FIRE ALARM BELL
	- SERVICE METER
	- SERVICE ENTRANCE
	- MAIN DISTRIBUTION PANELBOARD

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

PANELBOARD: LP FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

LOAD SCHEDULE

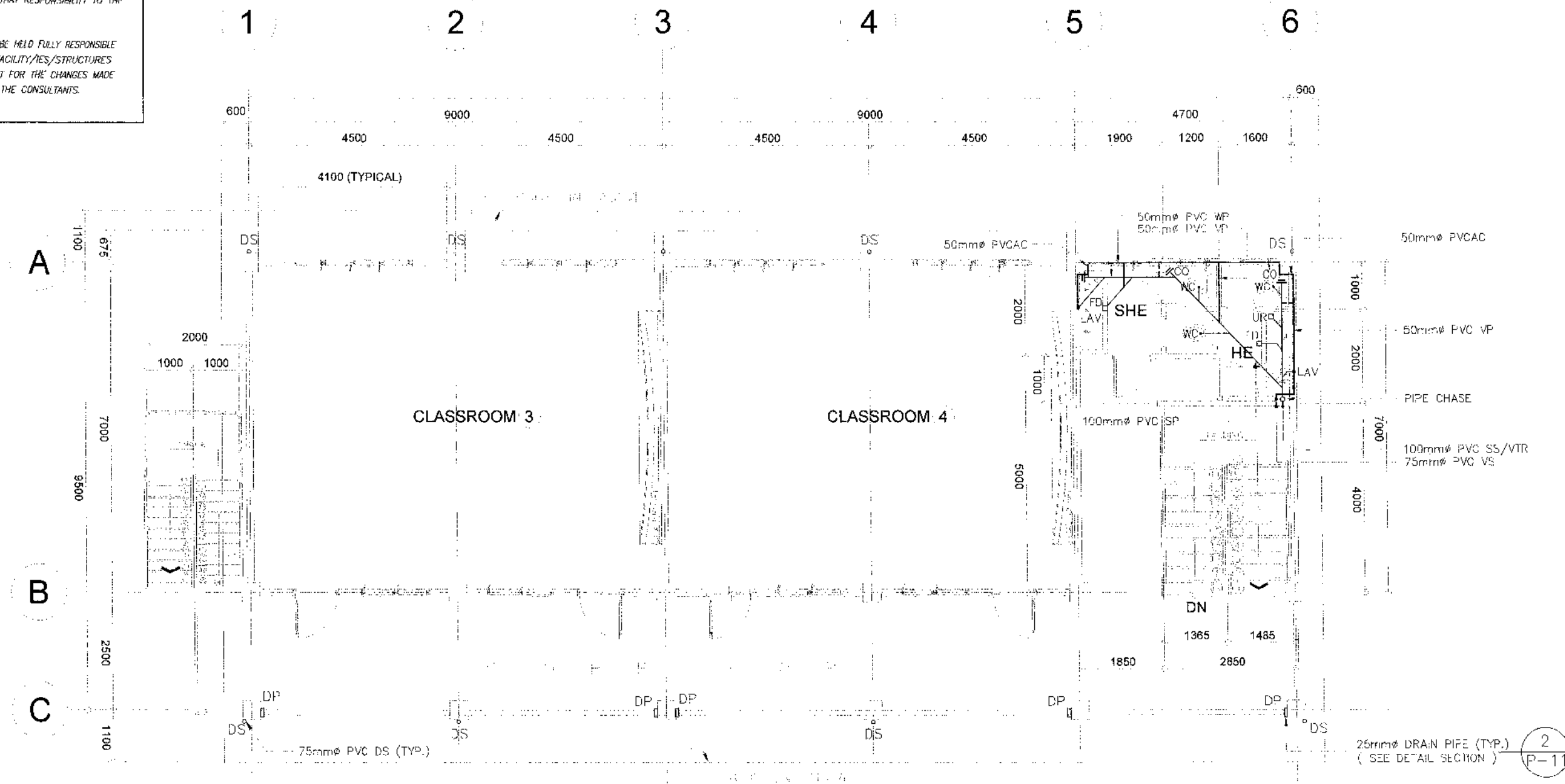


ELECTRICAL RISER DIAGRAM

2
E 6 SCALE NOT TO SCALE

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



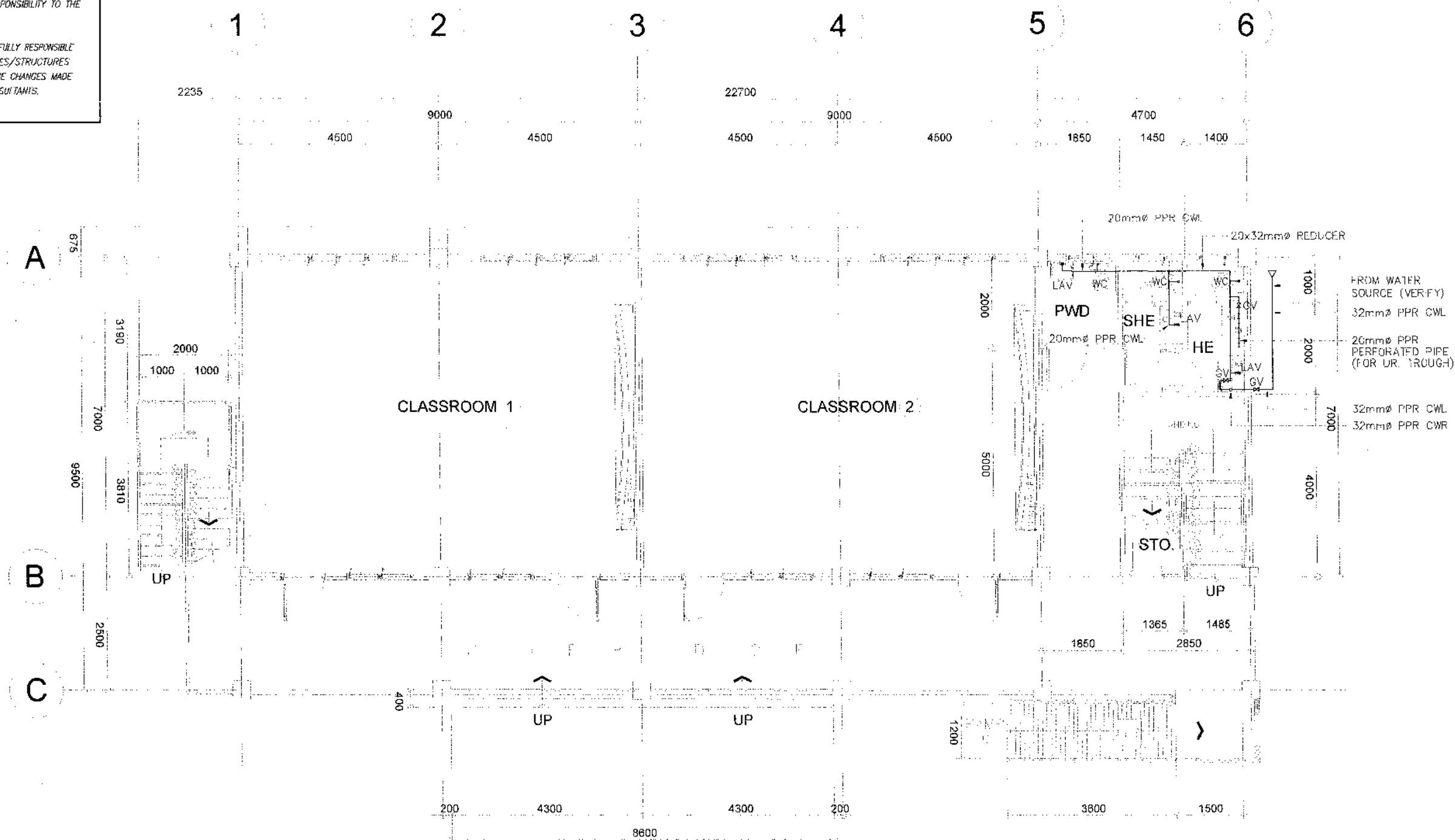
1
P/2

SCALE

1:100 METERS

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9164, APPROVAL BY THE AUTHORIZED DPMW OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

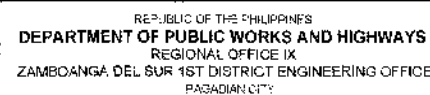
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



1
P 3

GROUND FLOOR WATER LINE LAYOUT

SCALE 1:100 METERS



CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

- AS SHOWN

ROSETUM PABREA
ENGINEERING ASSISTANT, MASTER PLUMBER

GRACE Y. COMALING
ENGINEER II

BRIAN R. VILLANDEY
ENGINEER III

MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER

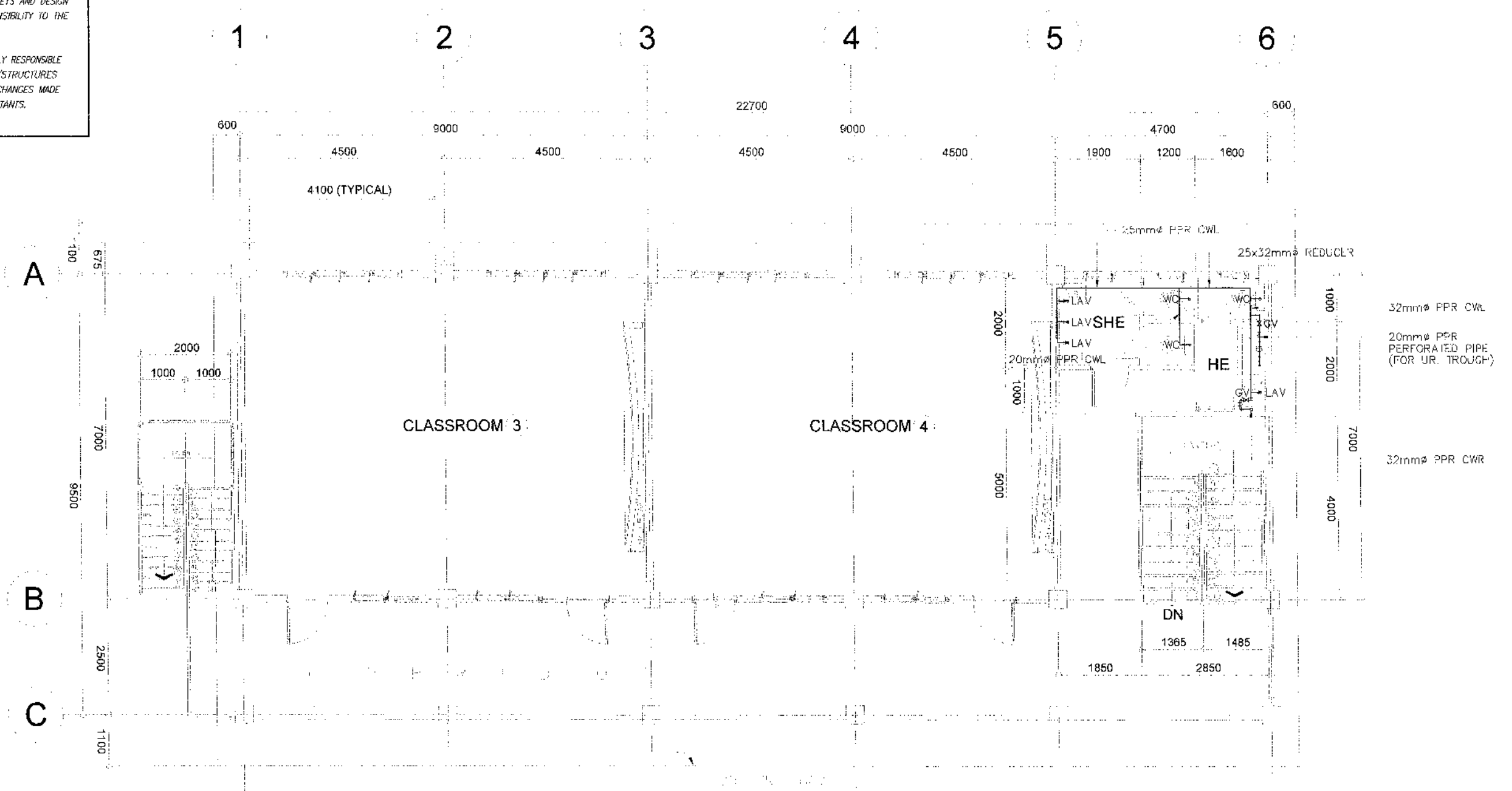
PABLO L. ESCUADRO, MP
DISTRICT ENGINEER

03
P15

86
98

NOTE:
 PURSUANT TO SECTION 4 OF ANNEX "A" OF THE
 REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184,
 APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED
 ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS
 NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER
 FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN
 NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE
 APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE
 FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES
 DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE
 WITHOUT THE CONFORMITY OF THE CONSULTANTS.

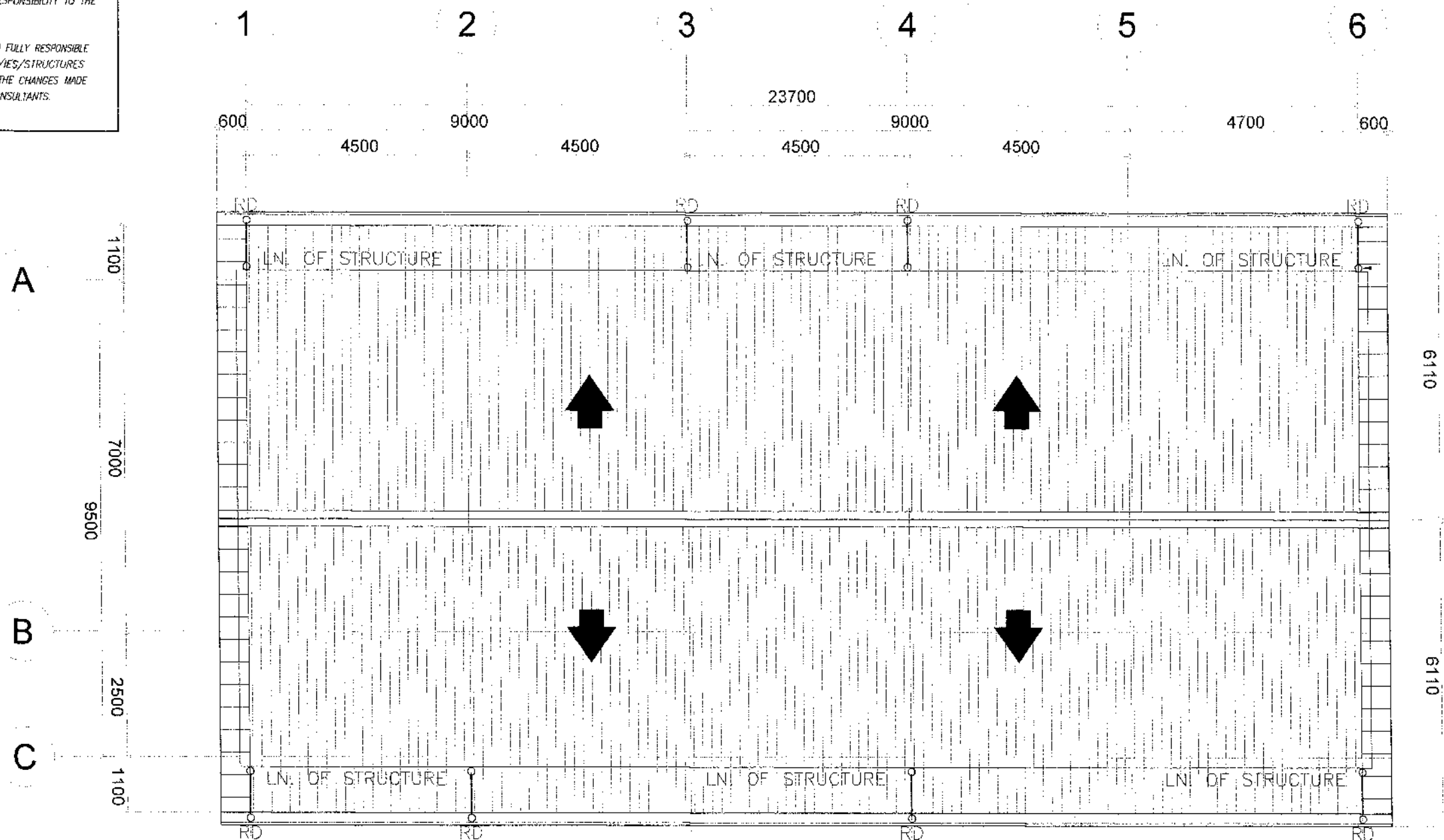


1 SECOND FLOOR WATER LINE LAYOUT
 P 4 SCALE 1:100 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9124, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



75mmø PVC DS
(UNDER THE ROOF)
TYPICAL

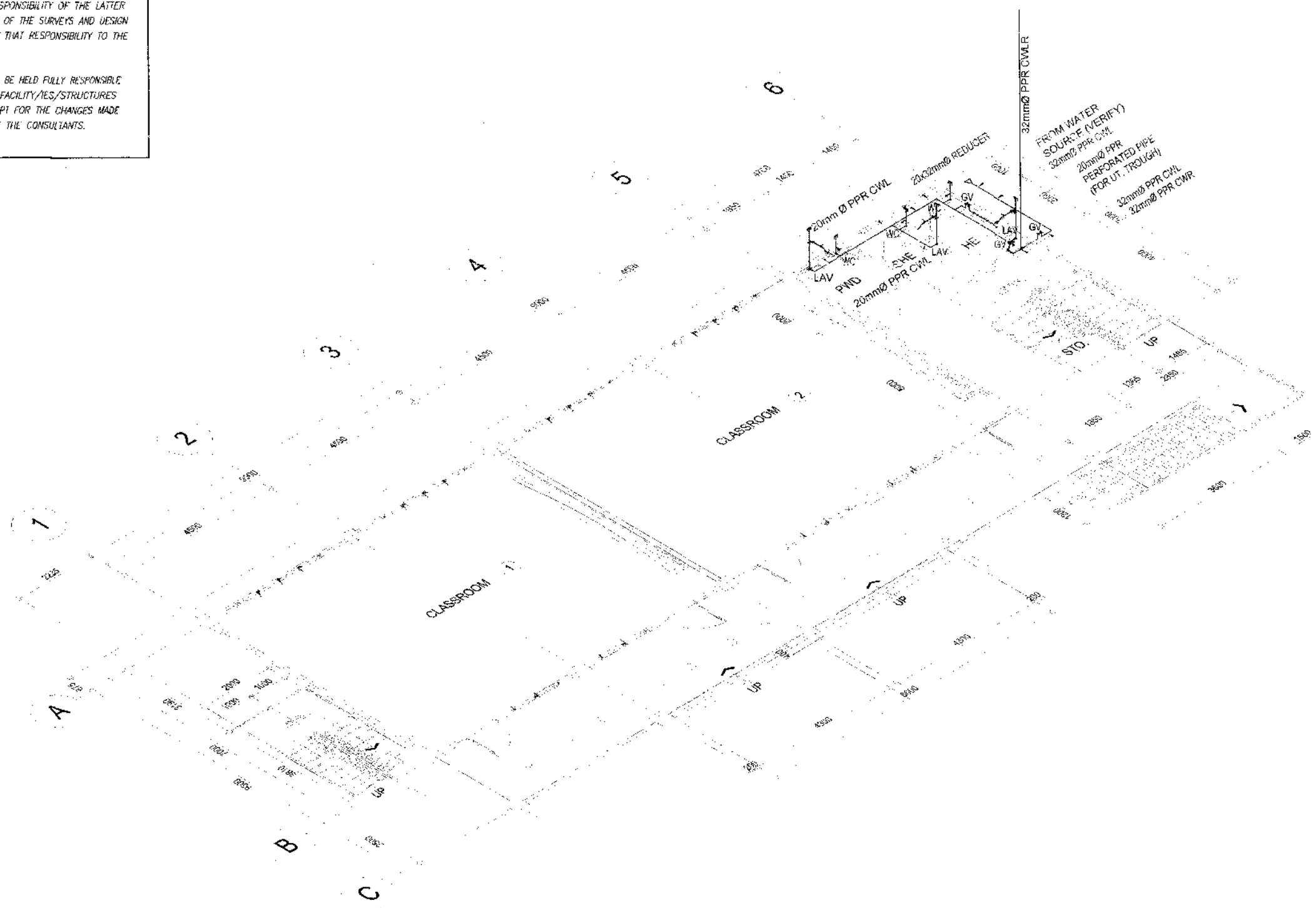
1 ROOF DRAINAGE LAYOUT
P 5 SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PASADIAN CITY	PROJECT NAME AND LOCATION CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	SHEET CONTENTS: • AS SHOWN	PREPARED: ROSEMARY P. ABREA ENGINEERING ASSISTANT - MASTER PLUMBER DATE: 07/20/25	REVIEWED: GRACE Y. COMALING ASST. CHIEF ENGINEER - ROADS SECTION DATE: 07/23/25	SUBMITTED: JOHAN R. VELASQUEZA ENGINEER DATE: 07/25/25	RECOMMENDED: MARIA D. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 07/25/25	APPROVED: PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 07/25/25	SET NO. 05	SHEET NO. 88
	05 P15 88 98								

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

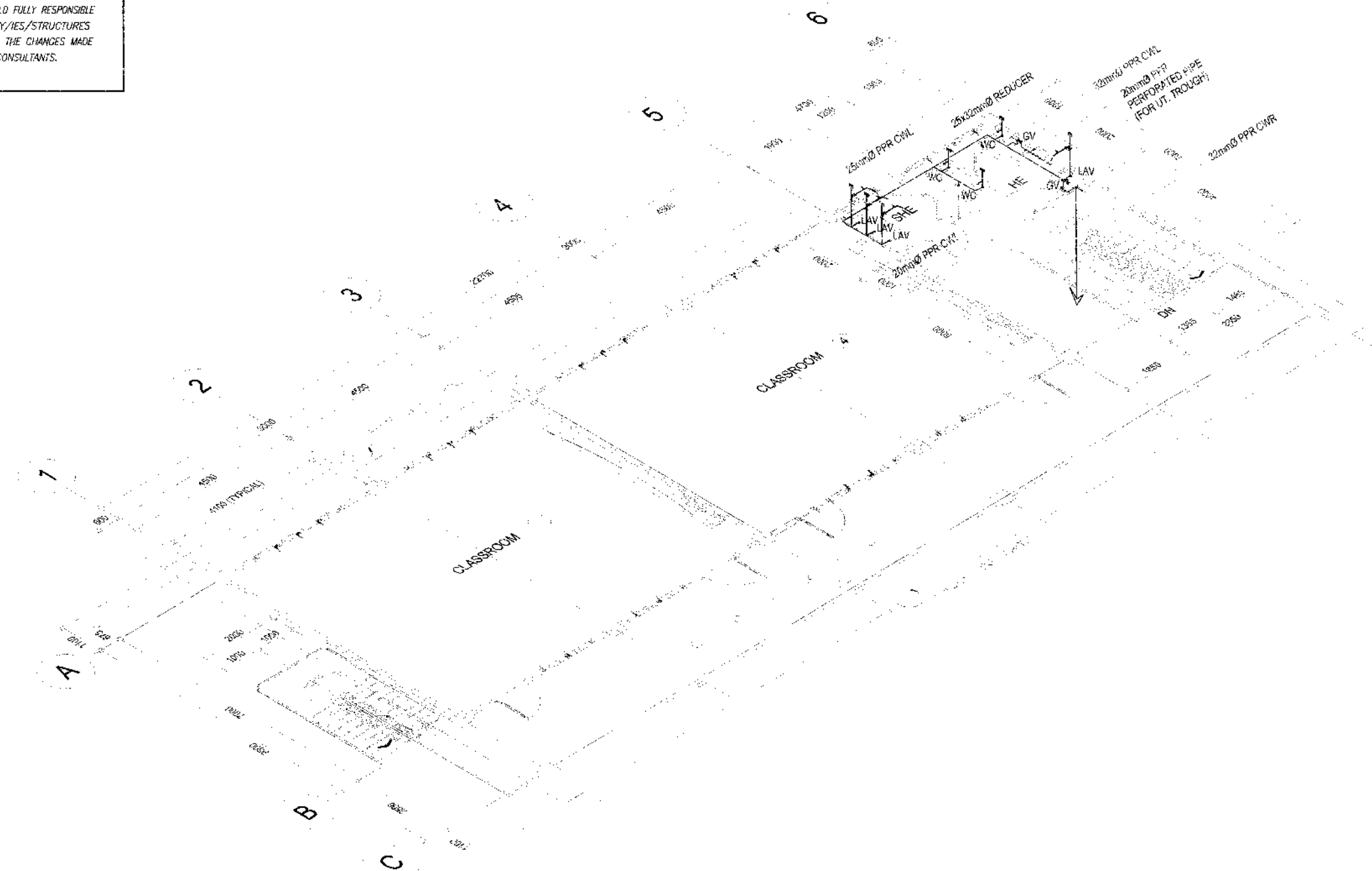


GROUND FLOOR
ISOMETRIC WATER LINE LAYOUT
SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION	SHEET CONTENTS	PREPARED	REVIEWED	SUBMITTED	RECOMMENDED	APPROVED	SET NO.	SHEET NO.
	CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	AS SHOWN	ROBERTO M. BREA ENGINEER IN CHARGE DATE: 08/29/25 GRACEY COMALING ENGINEER DATE: 08/29/25 JOSEPH R. VILLANUEVA ENGINEER DATE: 08/29/25 MARIA U. FLOREN ASSISTANT CHIEF ENGINEER DATE: 08/29/25 PABLO L. ESCUADRON, MPA CONSTRUCTION ENGINEER DATE: 08/29/25	06	89				

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9104, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



SECOND FLOOR
ISOMETRIC WATER LINE LAYOUT

1
P 7

SCALE 1:100 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADJAH CITY

CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

- AS SHOWN

ROSEMARY P. ABREA
ENGINEERING ASSISTANT MASTER P. UMBER

DATE

GRACEY COMALING
ENGINEER

AGST CHIEF, PLANNING AND DESIGN SECTION

ENGINEER III: 22

IN CHIEF PLANNING AND DESIGN SECTION

MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER

DATE 7-29-73

PABLO L. ESCHADRO, MPA
DISTRICT ENGINEER

DATE: 04/29/12

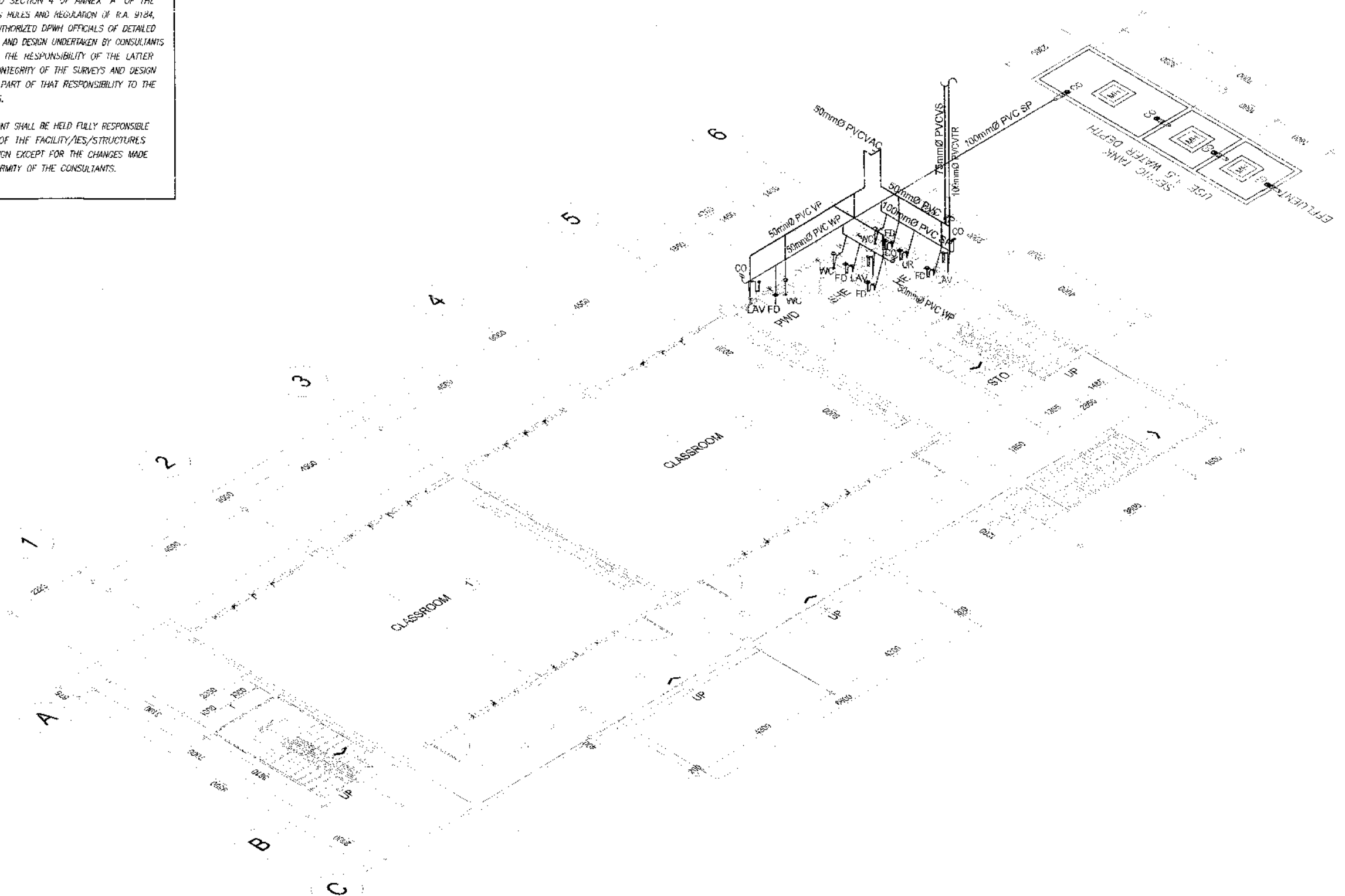
07
P15

90
98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



GROUND FLOOR
ISOMETRIC SEWER LINE LAYOUT
SCALE 1:100 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTAINS
• AS SHOWN

PREPARED
ROSEMARY TABREA
ENGINEERING ASSISTANT MASTER PLUMBER
DATE 04/11/25

REVIEWED
GRACE Y. DOMALING
ASS'T. CHIEF ENGINEER III
DATE 04/28/25

SUBMITTED
BRIAN S. VILLANUEVA
CHIEF ENGINEER III
DATE 04/28/25

RECOMMENDED
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE 07/29/25

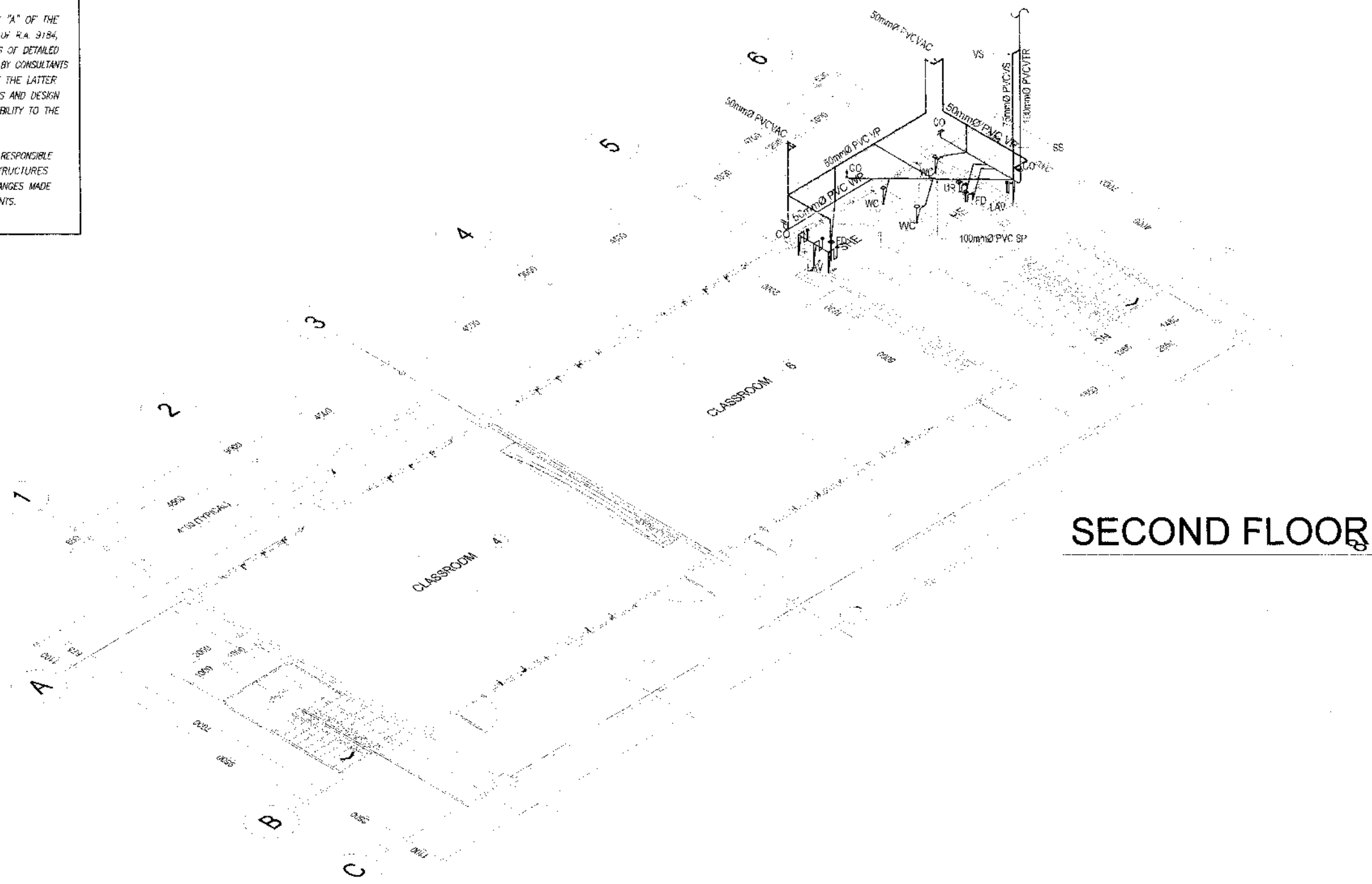
APPROVED
PABLO L. ESCUADRO, CPA
DISTRICT ENGINEER
DATE 07/29/25

SET NO. 08
SHEET NO. 91
P15 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



SECOND FLOOR

SECOND FLOOR
ISOMETRIC SEWER LINE LAYOUT
SCALE 1:100 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADJIAN CITY

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED
ROSETTA P. BREA
ENGINEERING ASSISTANT MASTER PLUMBER
DATE 07/29/25

REVIEWED
GRACE Y. COMALING
ENGINEER
ASST. CHIEF ENGINEER AND DESIGN SECTION
DATE 07/29/25

SUBMITTED
ERIAN D. ALONSO
ENGINEER IN CHARGE
DATE 07/29/25

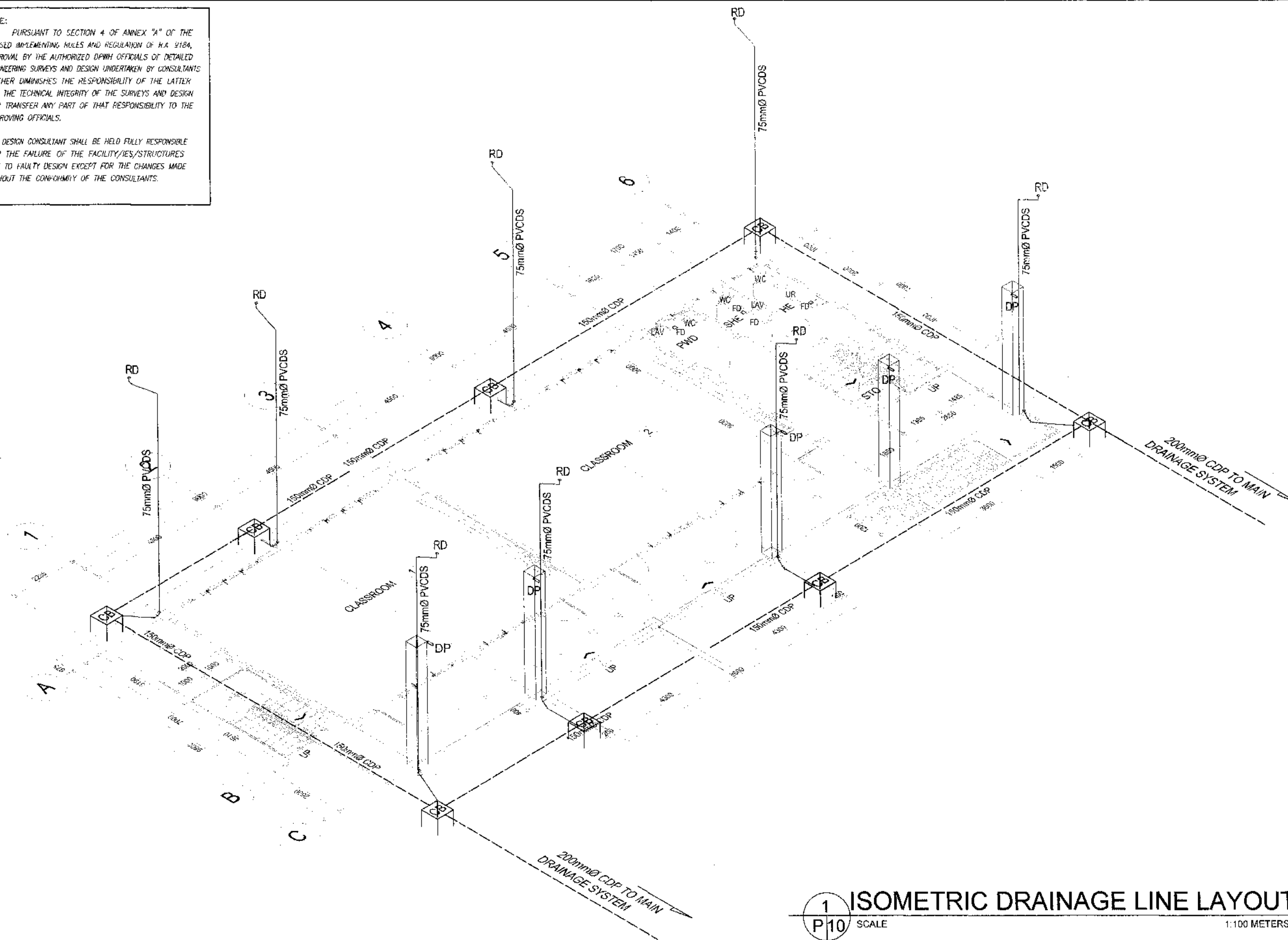
RECOMMENDED
MARIA U. FLOREN
ASSISTANT ENGINEER
DATE 07/29/25

APPROVED
PABLO L. ESCUADRO, MPA
REGISTERED PROFESSIONAL ENGINEER
DATE 07/29/25

SET NO
09
P15
SHEET NO
92
98

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 5184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATEX FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



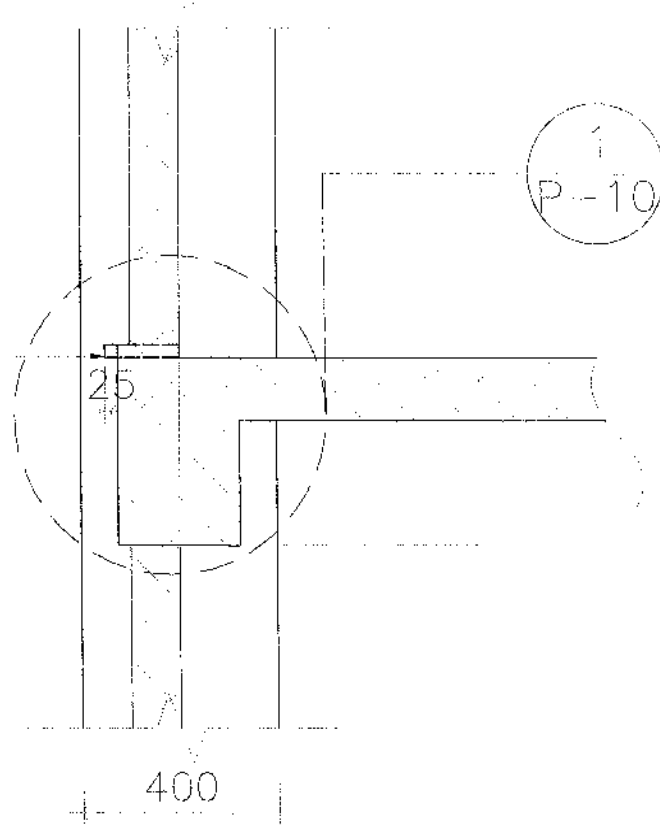
1 ISOMETRIC DRAINAGE LINE LAYOUT
P10 SCALE 1:100 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

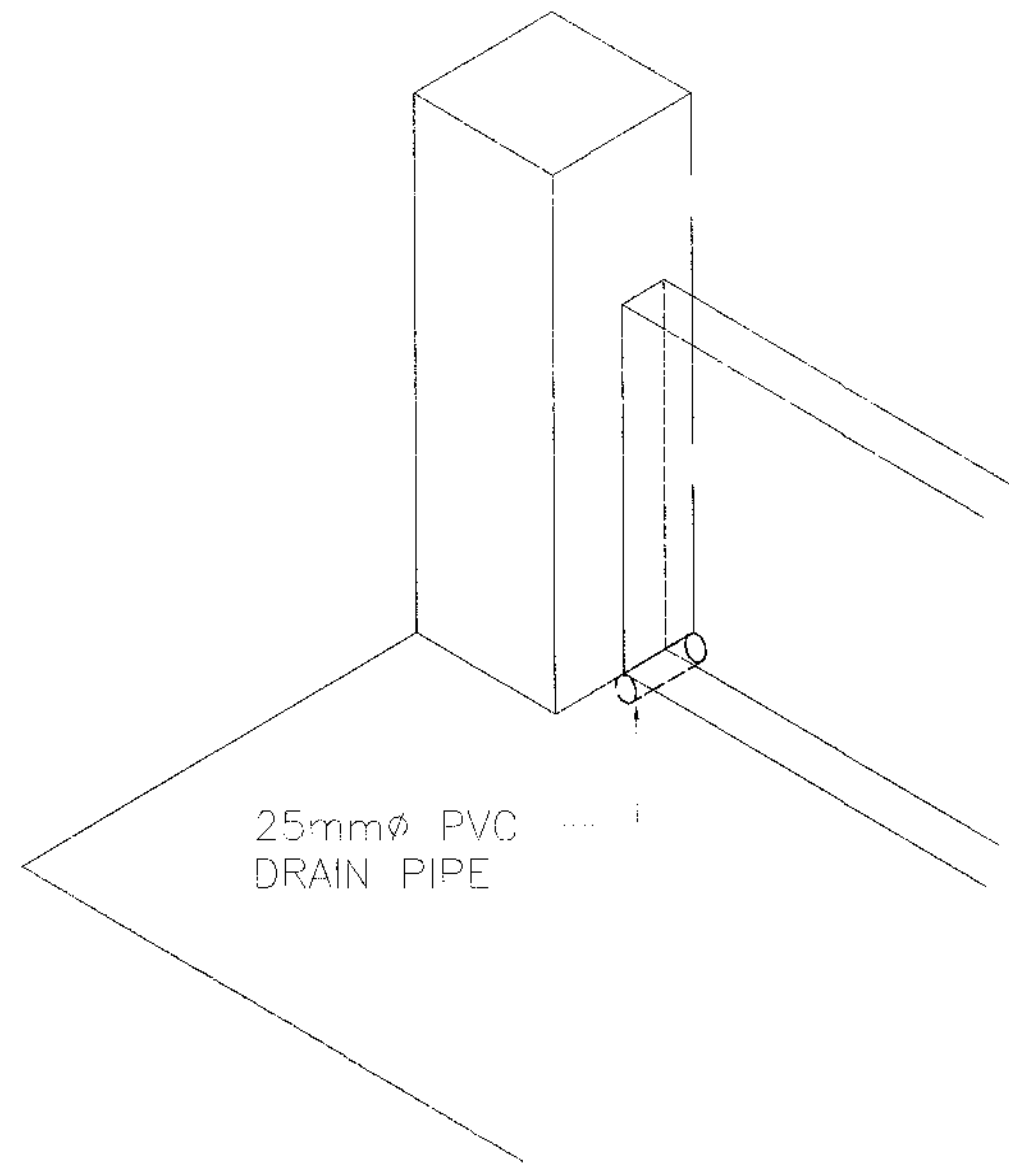
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

25mmø PVC
DRAIN PIPE



1 SPOT DETAIL
SCALE 1:15 METERS

25mmø PVC
DRAIN PIPE



2 DETAIL SECTION OF DRAIN PIPE
SCALE 1:15 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, BOKONG
NATIONAL HIGH SCHOOL, BARANGAY BOKONG,
MUNICIPALITY OF LABANGAN,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED BY
ROSELYN D. AREA
ENGINEERING ASSISTANT - MASTER PLUMBER
DATE 07/29/20

REVIEWED BY
GRACE Y. COMANING
ENGINEER II
ASST. CHIEF PLANNING AND DESIGN SECTION
DATE 08/12/20

SUBMITTED BY
BRIAN R. VILLALBA
ENGINEER II
CHIEF PLANNING AND DESIGN SECTION
DATE 08/28/20

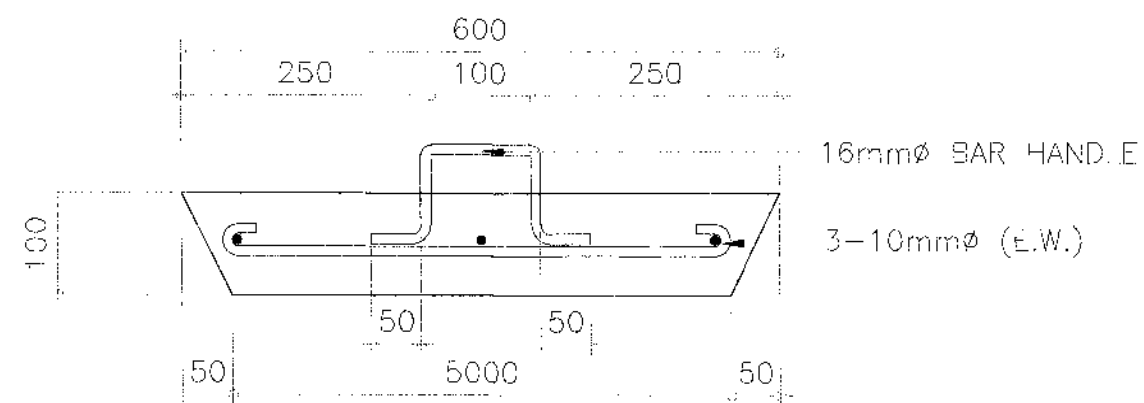
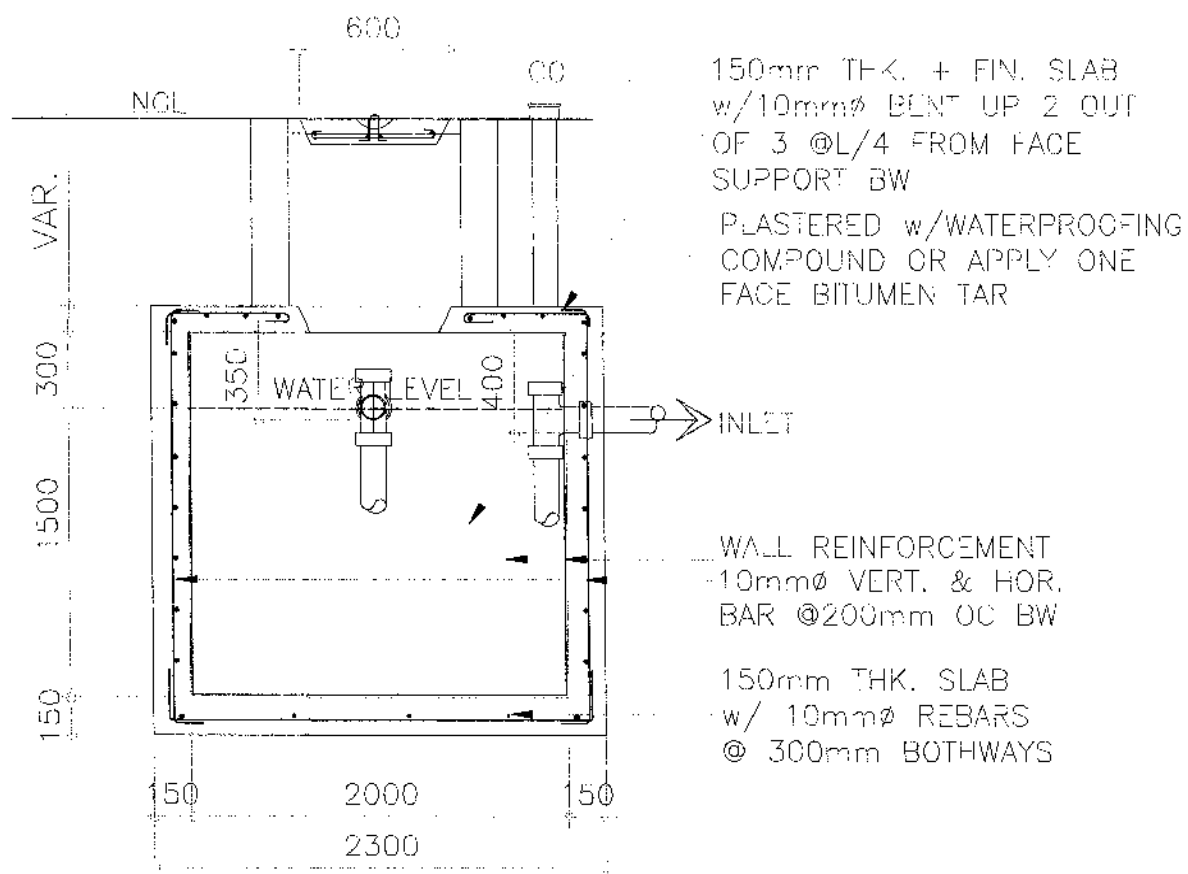
RECOMMENDED BY
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE 07/29/20

APPROVED BY
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE 07/29/20

SHEET NO. 11
SHEET NO. 94
P15 98

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 5184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



2 MANHOLE COVER DETAIL
P12 SCALE 1:10 METERS

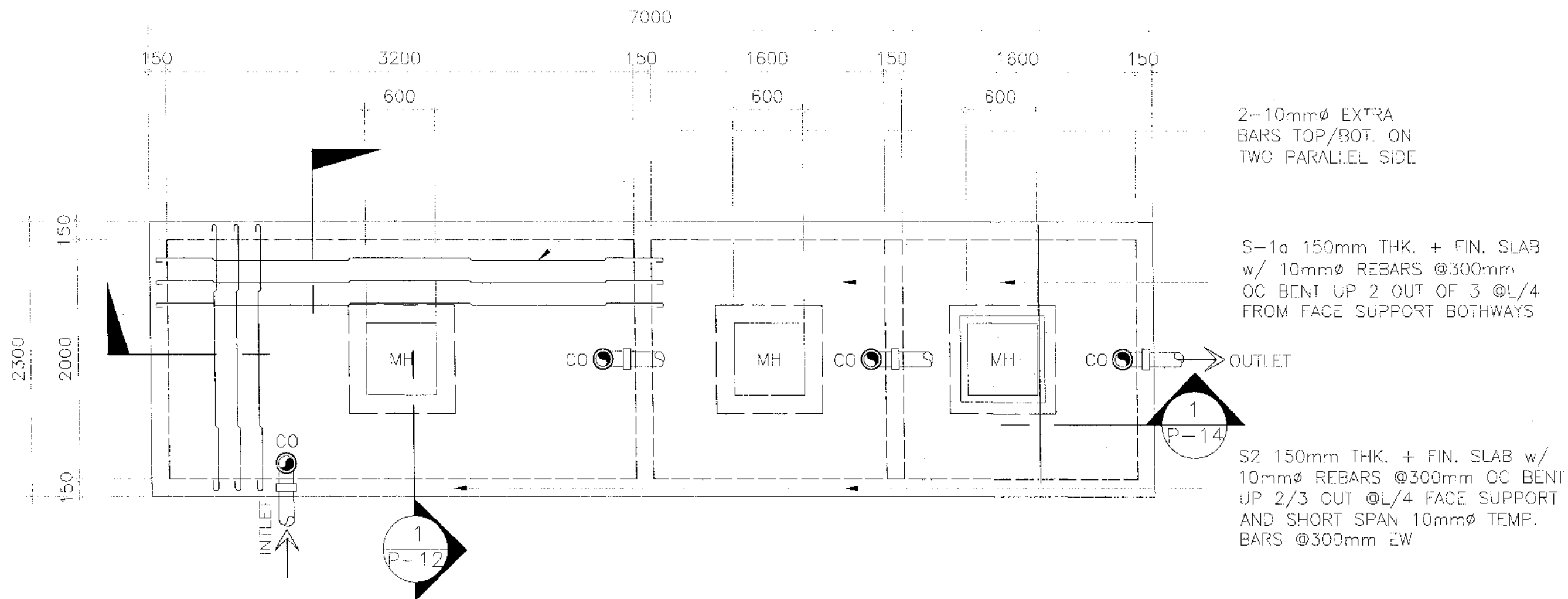
CROSS SECTION DETAIL

1
P12 SCALE 1:30 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF RA 1084, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



1 PLAN DET. OF SEPTIC TANK
SCALE 1:30 METERS

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	SHEET CONTENTS • AS SHOWN	PREPARED ROBERTO B. ABREA ENGINEERING ASSISTANT MASTER PLUMBER DATE: 04/24/26	REVIEWED GRACEY COMALING ASST. CHIEF PLANNING ENGINEER DATE: 04/25/26	RECOMMENDED BRIAN R. VILLANUEVA CHIEF PLANNING ENGINEER DATE: 04/28/26	APPROVED MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 04/29/26	APPROVED PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 04/29/26	SHEET NO. 13 SHEET NO. 96 P15 98
---	---	--------------------------------------	--	--	---	--	---	---

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

150mm THK. FIN. SLAB
w/10mm ϕ REBARS
@200mm OC BENT UP 2
OUT OF 3 AT L/4 FROM
FACE SUPPORT BOTHWAYS

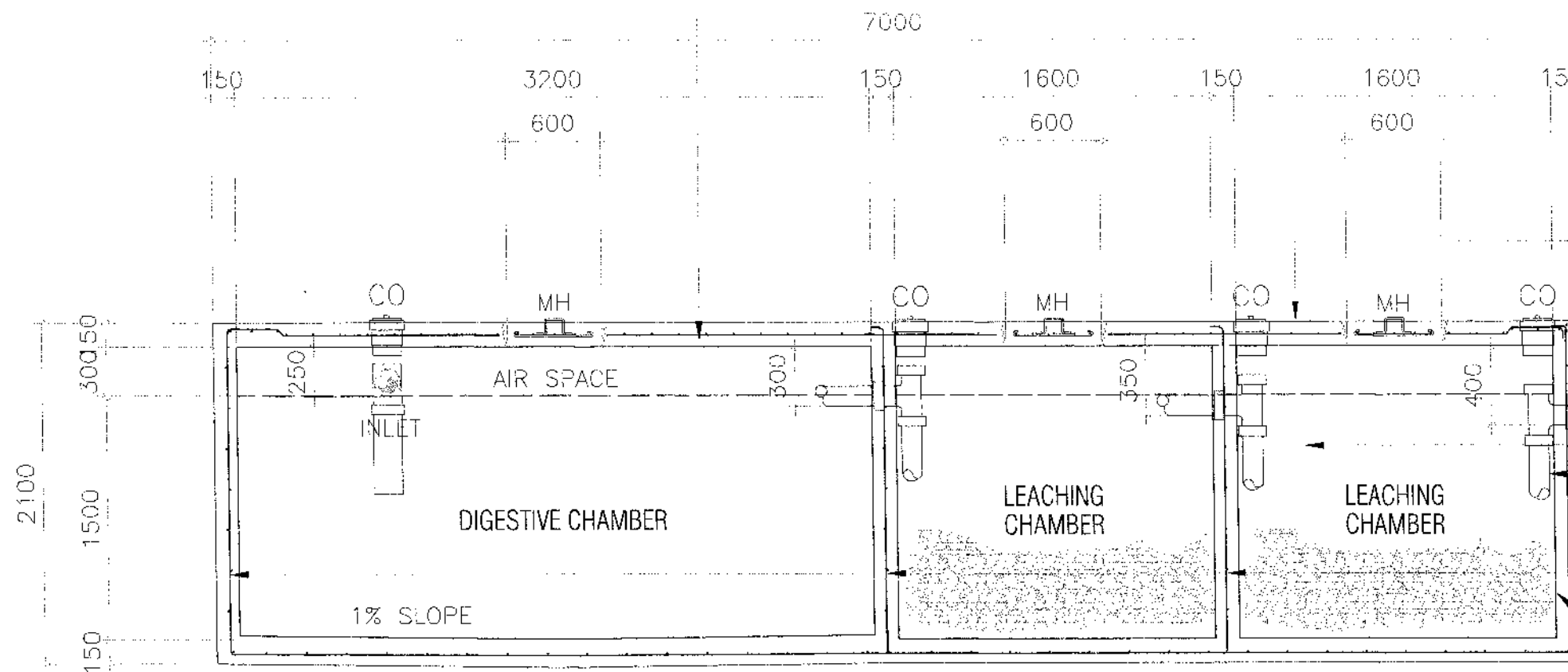
150mm THK. SLAB
w/ 10mm ϕ REBARS
@ 300mm BOTHWAYS

150mm ϕ PVC SP, TYP.

OUTLET
PLASTERED w/WATERPROOFING
COMPOUND OR APPLY ONE
FACE BITUMEN TAR

WALL REINFORCEMENT
10mm ϕ VERT. & HOR.
BAR @200mm OC BW

CONCRETE WALL W/HOT
APPLIED ASPHALT
WATER PROOFING
(INSIDE FACE)



1
P14 SCALE 1:30 METERS
LONGITUDINAL SECTIONAL DETAIL

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 5164, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILING ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/ES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



3-10mm ϕ REBARS

PT	BLADDER/PNEUMATIC TANK
E	ELECTROMOTOR
P	PUMP
U	UNION PATENT
FV	FOOT VALVE
FV	FLOAT VALVE
PP	PRIMING PORT
CB	CATCH BASIN
CDP	CONCRETE DRAIN PIPE
CV	CHECK VALVE
HB	HOSE BIB
FD	FLOOR DRAIN
PPR CWL	POLYPROPYLENE COLD WATER LINE
PPR CWR	POLYPROPYLENE COLD WATER RISER
GV	GATE VALVE
MH	MANHOLE
PVCDS	POLYVINYL CHLORIDE DOWNSPOUT
PVCDP	POLYVINYL CHLORIDE DRAIN PIPE
PVCDS	POLYVINYL CHLORIDE DOWNSPOUT
CO	CLEAN OUT
PVCSP	POLYVINYL CHLORIDE SOIL PIPE

	PVCAC POLYVINYL CHLORIDE VENT. CEILING
	PVCVP POLYVINYL CHLORIDE VENT. PIPE
	PVCVS POLYVINYL CHLORIDE VENT. STACK
	PVCVR/W POLYVINYL CHLORIDE VENT. THROUGH ROOF/WALL
	PVCWP POLYVINYL CHLORIDE WASTE PIPE
	PVCWS POLYVINYL CHLORIDE WASTE STACK
RD	ROOF DRAIN
UD	URINAL DRAIN
WC	WATER CLOSET
LAV	LAVATORY
KS	KITCHEN SINK

1. GRADES OF HORIZONTAL PIPINGS
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AND
AT A FORM GRADE NOT LESS THAN TWO PERCENT (2%)
2. CHANGE IN 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 1/8 BEND COMBINATION MAY BE USED ON VERTICAL
STACKS, AND SHORT QUARTER BENDS MAY BE USED ON
WASTE LINE, TEE AND CROSSES MAYBE USED IN BENT PIPES.
3. PROHIBITED FITTINGS
NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON
HORIZONTAL SOIL AND WASTE LINES, THE DRILLINGS AND
TAPPING OF HOUSE DRAIN, WASTE OR VENT PIPES AND
USE OF SADDLE HUB AND BEND ARE PROHIBITED.
4. PIPE CLEAN-OUTS
CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING
CONDITIONS:
 - a) EVERY CHANGE OF HORIZONTAL DIRECTION EXCEEDING
TWENTY TWO AND ONE-HALF DEGREES (22 1/2°).
 - b) ONE AND ONE-HALF METERS (1.50m.) INSIDE THE
PROPERTY LINES BEFORE THE HOUSE DRAINAGE CONNECTION.
 - c) EVERY FIFTEEN METERS (15.00m) IN HORIZONTAL RUN OF
PIPES.
 - d) AT THE END OF ANY HORIZONTAL PIPE LINES.
5. THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE
WATERPROOFED.
6. NOT LESS THAN 0.30 METER OF AIR SPACE MUST BE LEFT
BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF

7. NO SEPTIC VAULT SHALL BE CONSTRUCTED UNDER THE BUILDING.
8. ALL PLUMBING WORKS SHALL BE UNDER THE SUPERVISION OF A LICENSED MASTER PLUMBER AND A LICENSED PLUMBING CONTRACTOR.

1. CONCRETE
 - a. FOR FOOTING, BEAMS AND SLABS
$$f_c'' = 20 \text{ MPa}$$
2. CONCRETE MASONRY UNITS (LOAD BEARING CHB)
$$f_m' = 6.90 \text{ MPa}, f_m = 2.41 \text{ MPa}$$
3. REINFORCING STEEL BARS
FOR BARS SMALLER THAN 16mm
$$f_y = 230 \text{ MPa}$$
4. ASSUMED ALLOWABLE BEARING CAPACITY $\gamma = 100 \text{ KPa}$

WATER TABLE IS 1500 BELOW GROUND LEVEL.