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REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

REGIONAL OFFICE IX

ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE

PAGADIAN CITY

C.Y. 2025 PROJECT

DETAILED ENGINEERING DESIGN PLAN FOR

CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL

BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SUBMITTED:

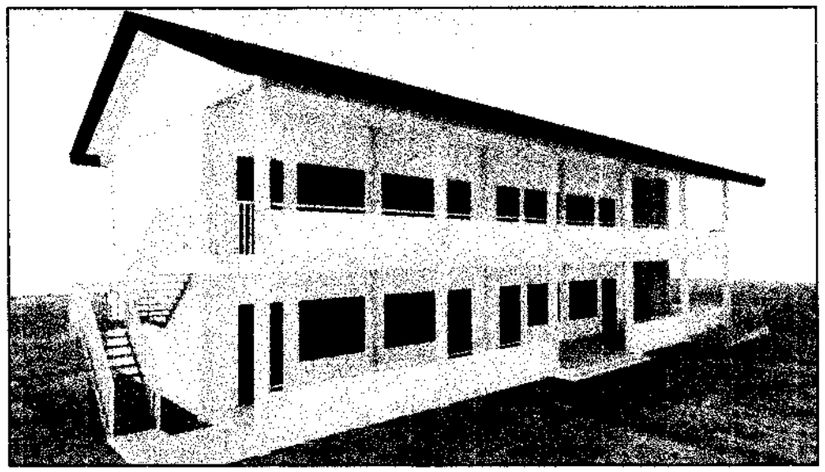
BRIAN R. VILLANUEVA
CHIEF, PLANNING AND DESIGN SECTION
DATE: 7/24/25

RECOMMENDED:

MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 7/29/25

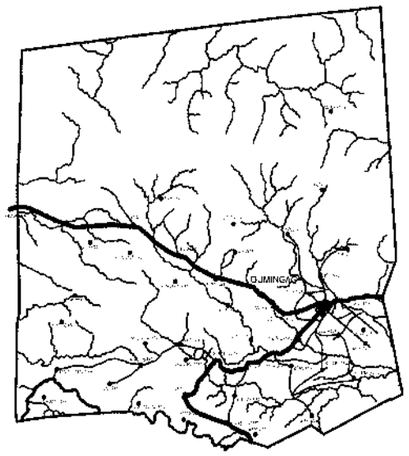
APPROVED:

PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 7/29/25



1 A 2 PERSPECTIVE
SCALE NTS

LINE	BEARING	DISTANCE
LINE 1 - 2	S 72D 19' E	72.42m
LINE 2 - 3	S 77D 48' E	113.56m
LINE 3 - 4	S 20D 57' W	100.66m
LINE 4 - 5	N 75D 44' W	178.51m
LINE 5 - 1	N 16D 48' E	100.28m
TOTAL LOT AREA: 18,623.50m²		



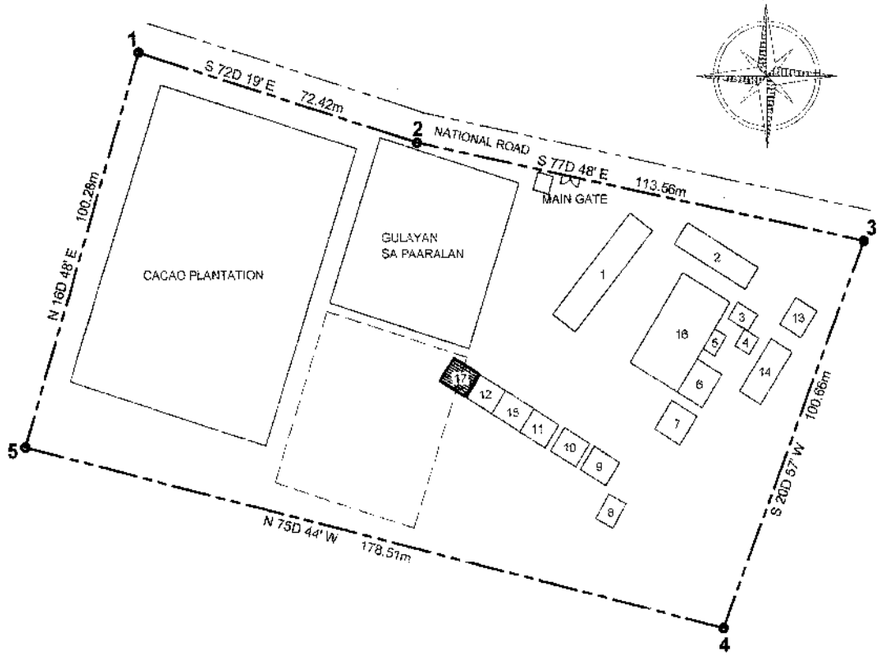
4 A 2 VICINITY MAP
SCALE NTS

3 A 2 LOCATION PLAN
SCALE NTS

THIS SITE
BRGY. DULOP, DUMINGAG, ZAMBOANGA DEL SUR

EXISTING BUILDINGS:

1 - 1 STOREY 3 CLASSROOM
2 - 8 SEATER TOILET
3 - 1 STOREY STAGE
4 - 1 STOREY 1 CLASSROOM
5 - 1 STOREY SCIENCE LAB
6 - 1 STOREY TEACHERS COTTAGE
7 - 1 STOREY LIBRARY
8 - 1 STOREY 1 CLASSROOM
9 - 1 STOREY 1 CLASSROOM
10 - 1 STOREY 4 CLASSROOM
11 - 1 STOREY 2 OFFICE
12 - 1 STOREY GULAYAN
13 - 2 STOREY 2 CLASSROOM
14 - 2 STOREY 4 CLASSROOM
15 - 1 STOREY CANTEEN
16 - 1 STOREY COVERED COURT
17 - PROPOSED 2 STOREY 4 CLASSROOM



2 A 2 SITE DEVELOPMENT PLAN
SCALE 1:1500 METERS

TABLE OF CONTENTS

REPUBLIC OF THE PHILIPPINES

OFFICE OF THE CITY/ MUNICIPAL ENGINEER/ BUILDING OFFICIAL

DISTRICT/CITY/MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL

MECHANICAL

MUNICIPAL MAYOR

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS
- AS SHOWN

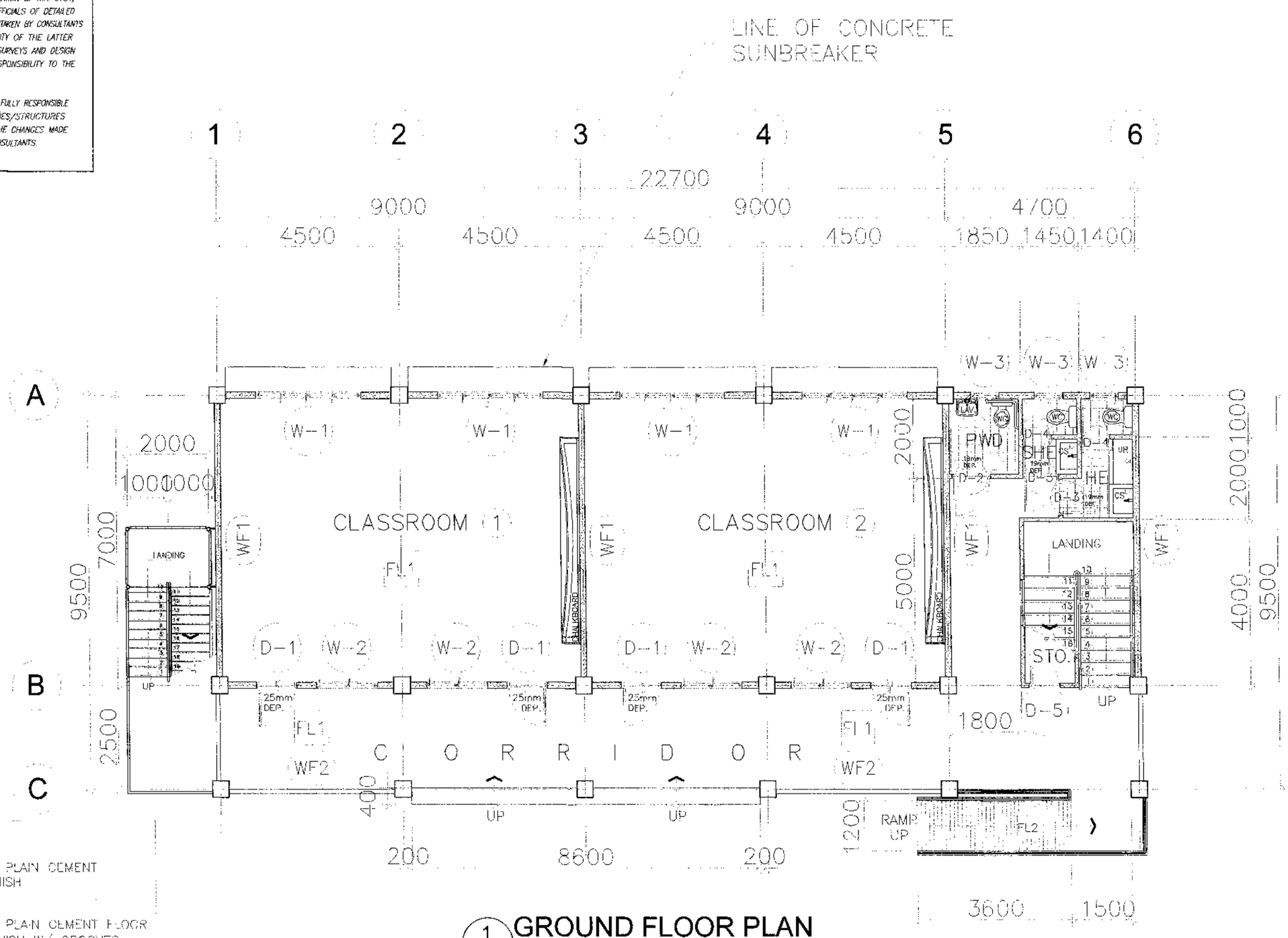
PREPARED: DIXIE HANNAH LOU C. SARMIENTO, ARCH'TECT II, DATE
REVIEWED: GRACE Y. DUMALING, ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION, DATE
SUBMITTED: BRIAN E. VILLANUEVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION, DATE
RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE
APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE

SET NO. 02 A 40
SHEET NO. 02 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.



FLOORS :

- FL1 — NON SKID PLAIN CEMENT FLOOR FINISH
- FL2 — NON SKID PLAIN CEMENT FLOOR ROUGH FINISH W/ GROOVES
- FL3 — 200x200 VITRIFIED FLOOR TILES (UNGLAZED)

1 / A 3 GROUND FLOOR 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT I	GRACE Y. COMALING, ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION	BRIAN E. VILLANUEVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE	DATE	DATE	DATE	DATE

SET NO: 03 A 40 | SHEET NO: 03 98

NOTE:

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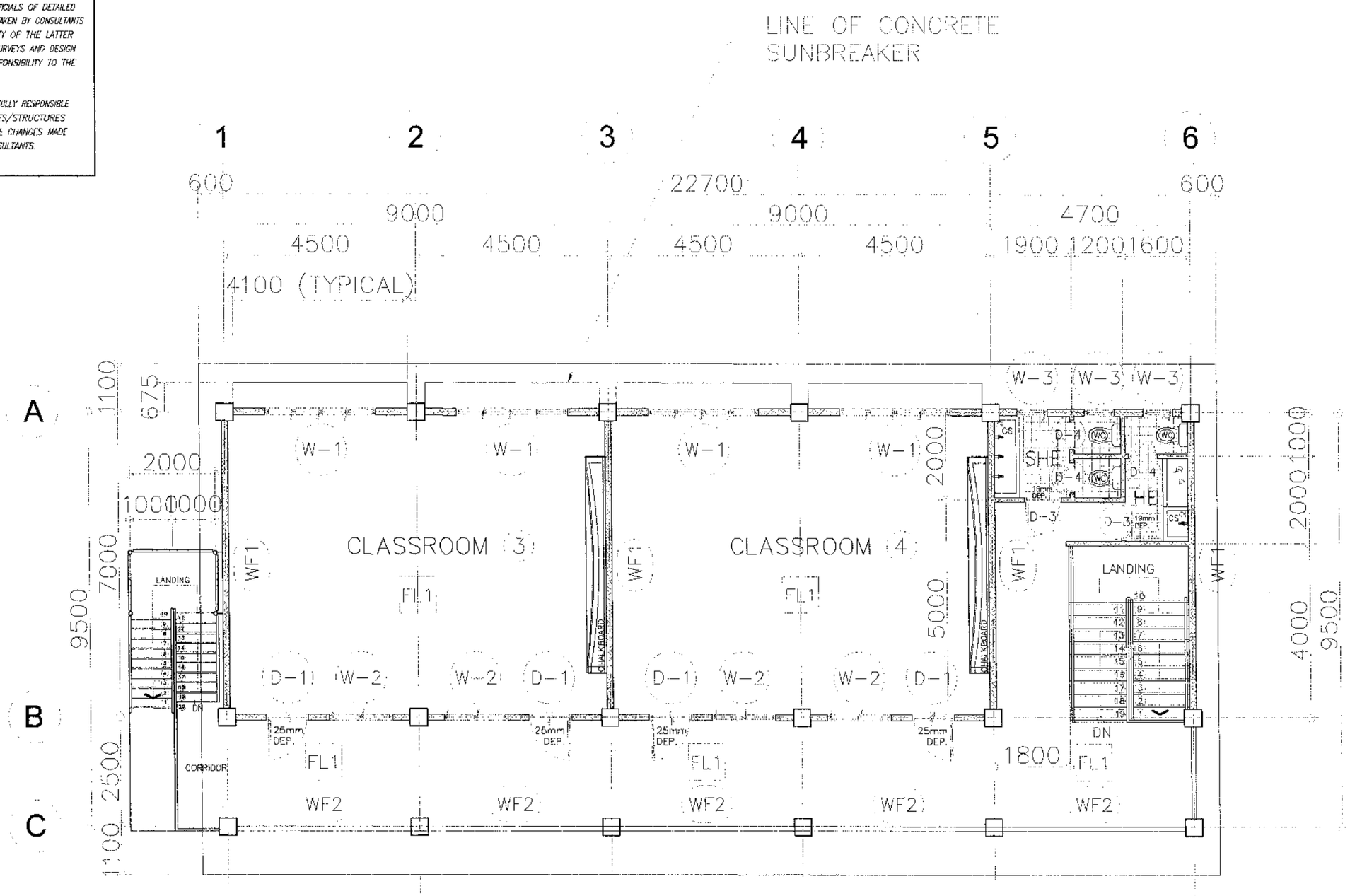

SECOND FLOOR PLAN

1 / A4 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: **DIXIE HANNAH EDU C. SARMIENTO** ARCHITECT II DATE:	REVIEWED: **GRACE M. DOMALING** ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE:	SUBMITTED: **BRIAN B. MILLANES, JR.** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE:	SET NO. 04 A 40	SHEET NO. 04 98

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SCHEDULE OF FINISHES

FLOORS :

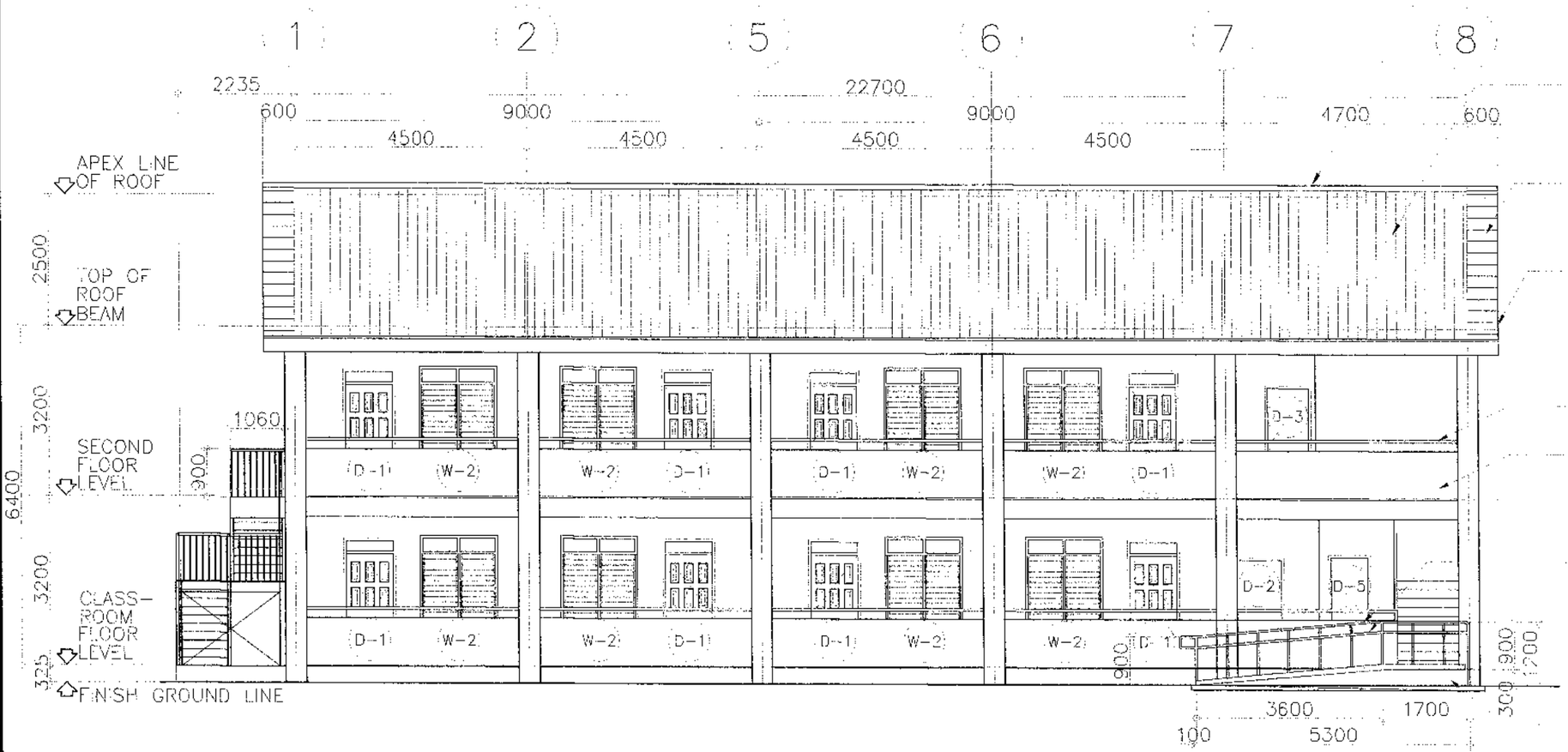
- FL1 — NON SKID PLAIN CEMENT FLOOR FINISH
- FL2 — NON SKID PLAIN CEMENT FLOOR ROUGH FINISH W/ GROOVES
- FL3 — 200x200 VITRIFIED FLOOR TILES (UNGLAZED)

WALLS :

- WF1 — 150mm THK. CHB W/ PLAIN CEMENT PLASTER (PAINT FINISH)
- WF2 — 100mm THK. CHB PLAIN CEMENT PLASTER W/ 50mmø G.I. PIPE HANDRAIL (PAINT FINISH)
- WF3 — 150mm THK. CHB W/ 200x200mm VITRIFIED WALL TILES (GLAZED)
- WF4 — 100mm THK. CHB W/ 200x200 mm VITRIFIED WALL TILES (GLAZED)

CEILING FINISHES :

- CL1 — EXPOSED UNDERSIDE OF CONCRETE SLAB (WITH PAINT FINISH)
- CL2 — 4.5mm THICK FIBER CEMENT BOARD (PAINTED) ON METAL FURRING CHANNELS @ 400mm O.C.



0.60mm THK. (BASE METAL THICKNESS) PRE-PAINTED PRE-FORMED RIDGE ROLL

0.40mm THICK (BASE METAL THICKNESS) LONG SPAN PRE-PAINTED G.I. ROOFING SHEETS WITH TOTAL COATED THICKNESS OF 0.50mm THICK.

ANGULAR BAR 40 x 40 x 5 x 500mm ON EVERY PURLINS

0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. FLASHING SHEET WITH 12 x 300mm FIBER CEMENT FASCIA BOARD (PAINT FINISH)

50mmø G.I. PIPE HANDRAIL (PAINT FINISH), TYPICAL

100mm THK. CHB RAILING, (TYPICAL) W/ PAINTED FINISH

38mmø G.I. PIPE HANDRAIL w/ 32mmø VERT. SUPPORT @ 600mm O.C. (PAINT FINISH)

PWD RAMP (SEE DETAIL)

1/A5 FRONT ELEVATION

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOU C. SARMIENTO	GRACE Y. COMALING	BRIAN R. VILLANUEVA	MARIA U. FLOREN	PABLO L. ESCUADRO, MPA
ENGINEER II	ASST. CHIEF, PLANNING AND DESIGN SECTION	ENGINEER III	ASSISTANT DISTRICT ENGINEER	DISTRICT ENGINEER
DATE	DATE	DATE	DATE	DATE

SET NO: 05 A 40
SHEET NO: 05 98

NOTE:

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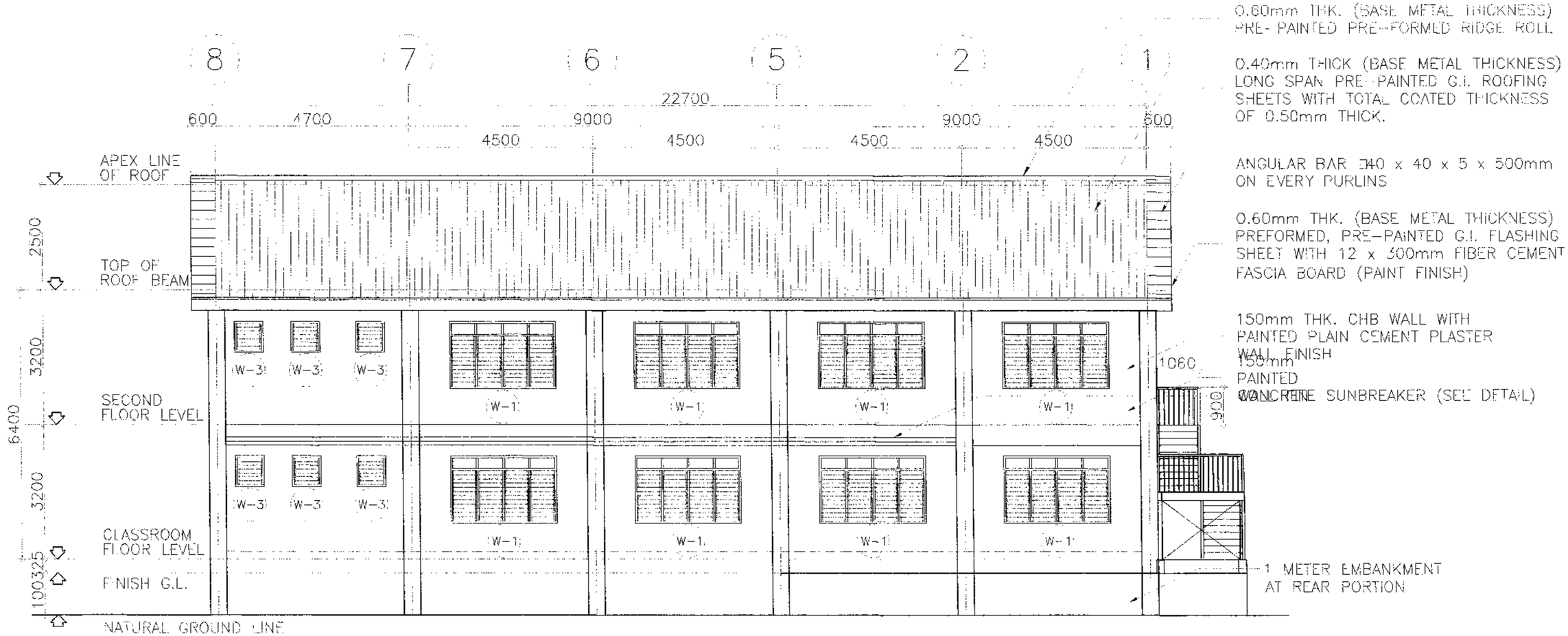

1/A6 **REAR ELEVATION**

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: **DIXIE [illegible] LOU C. SARMIENTO** ARCHITECT II DATE: 04/29/25	REVIEWED: **GRACE Y. COMALING** ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 04/29/25	RECOMMENDING APPROVAL: **[illegible]** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE: 04/29/25	RECOMMENDED: **MARIA N. FLOREN** ASSISTANT DISTRICT ENGINEER DATE: 04/29/25	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 04/29/25	SET NO: 06 A 40	SHEET NO.: 06 98

NOTE:

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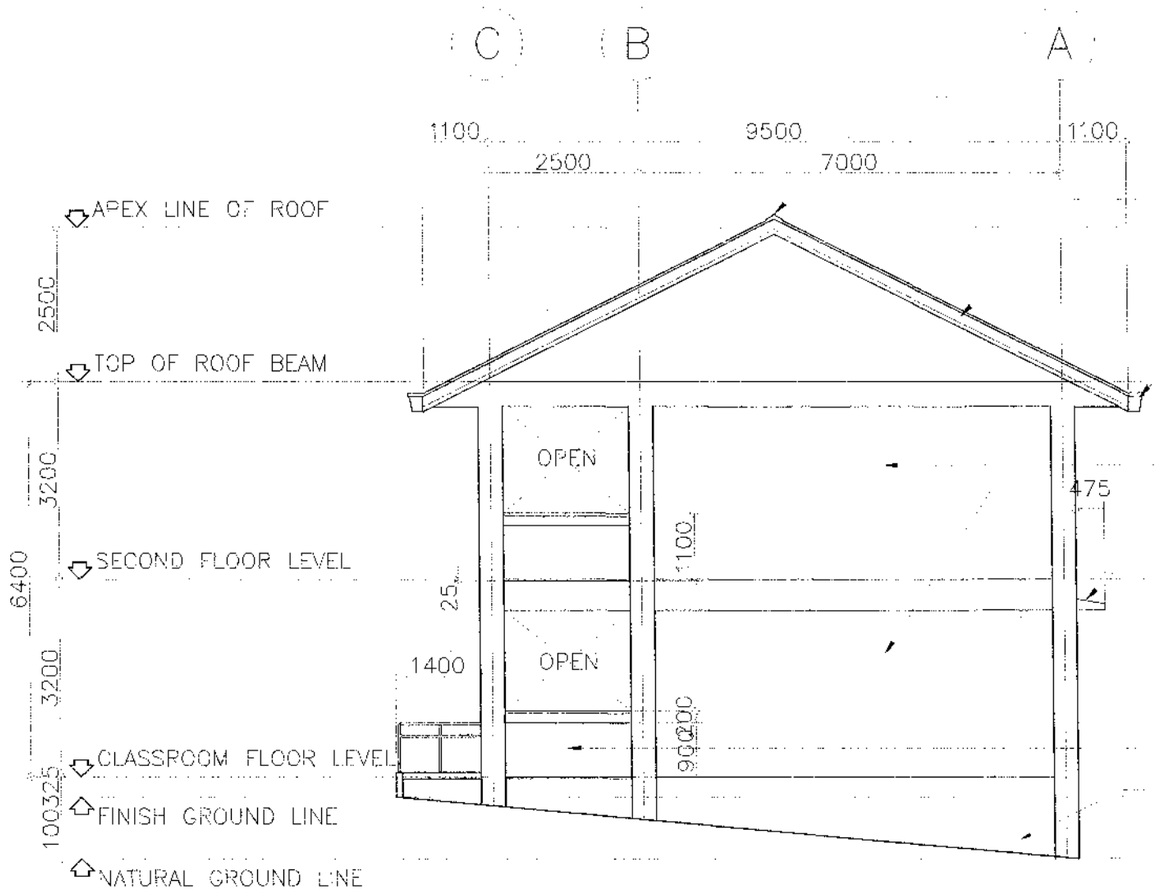

0.60mm THK. (BASE METAL THICKNESS) PRE-PAINTED PRE-FORMED RIDGE ROLL

0.40mm THICK (BASE METAL THICKNESS) LONG SPAN PRE-PAINTED G.I. ROOFING SHEETS WITH TOTAL COATED THICKNESS OF 0.50mm THICK.

0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. GUTTER WITH 12 x 300mm FIBER CEMENT FASCIA BOARD (PAINT FINISH)

150mm THK. CHB WALL WITH PAINTED PLAIN CEMENT PLASTER WALL FINISH

SEE SUNBREAKER DETAILS

100mm THK. CHB RAILING WITH 50mmø G.I. PIPE HANDRAIL (PAINT FINISH)
1 METER EMBANKMENT AT REAR PORTION

1/A7 RIGHT SIDE ELEVATION

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II, DATE: 04/24/15

REVIEWED: GRACE Y. COMALING, ENGINEER II, ASST. CHIEF PLANNING AND DESIGN SECTION, DATE: 04/29/15

SUBMITTED: BRIAN R. VILLANDEVA, ENGINEER III, CHIEF PLANNING AND DESIGN SECTION, DATE: 04/29/15

RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 04/29/15

APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE: 04/29/15

SET NO.: 07 A40

SHEET NO.: 07 98

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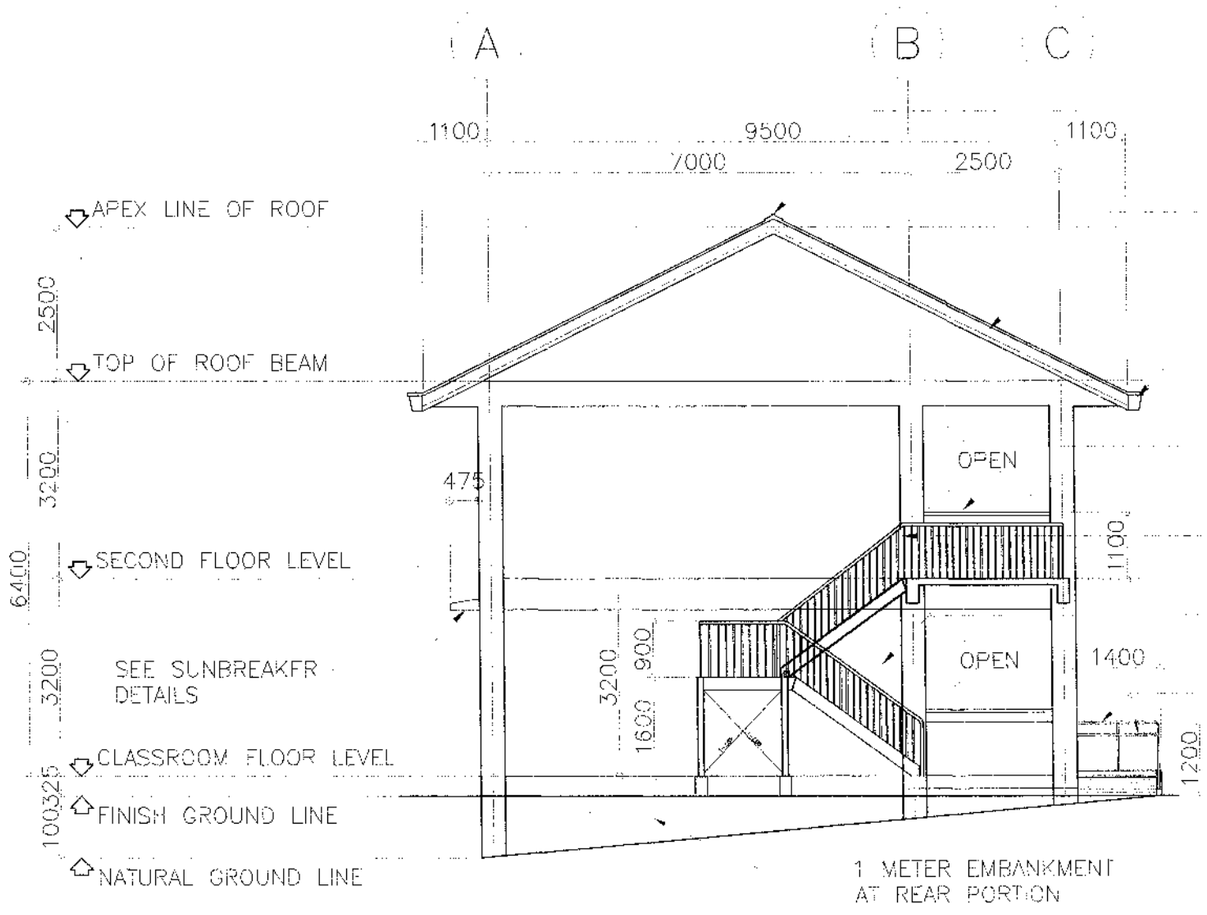

1 A 8 LEFT SIDE ELEVATION

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
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PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED: **DIXIE HANNAH LOU C. SARMIENTO**, ARCHITECT II, DATE 07/24/25

REVIEWED: **GRACE Y. COMALING**, ENGINEER II, ASST. DIST. ENGR. (CONSTRUCTION SECTION), DATE 08/13/25

SUBMITTED: **[illegible] VILLANUEVA**, ENGINEER III, OIC-DISTRICT ENGINEER, DATE 08/28/25

RECOMMENDED: **MARIA U. FLOREN**, ASSISTANT DISTRICT ENGINEER, DATE 08/29/25

APPROVED: **PABLO L. ESCUADRO, MPA**, DISTRICT ENGINEER, DATE 08/29/25

SET NO.: 08 A 40

SHEET NO.: 08 98

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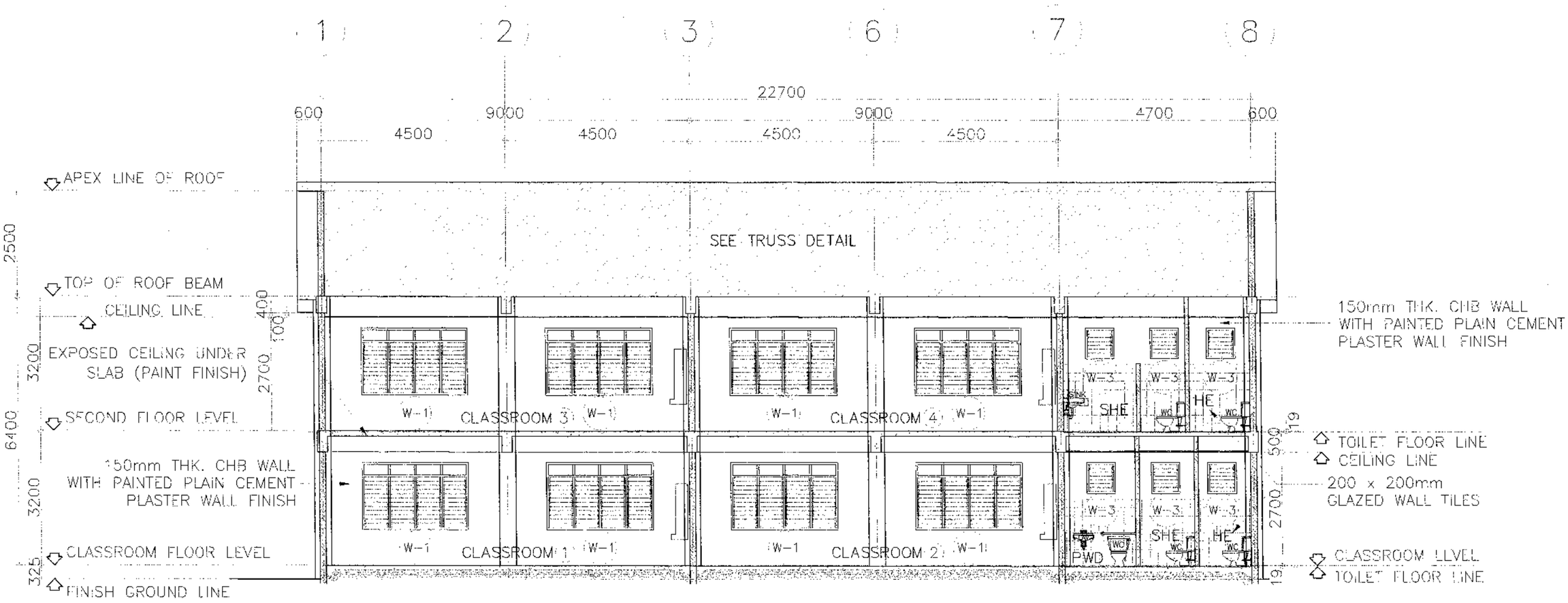

1/A9 LONGITUDINAL SECTION

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
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SHEET CONTENTS:
- AS SHOWN

PREPARED:
DIXIE HANNAH LOU C. SARMIENTO
ARCHITECT II
DATE: 07/24/25

REVIEWED:
GRACE Y. GOMALING
ENGINEER II
ASST. CHIEF PLANNING AND DESIGN SECTION
DATE: 07/24/25

NOTED:
ENGR. BRIAN R. VILLANUEVA
ENGINEER III
CHIEF PLANNING AND DESIGN SECTION
DATE: 07/28/25

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

APPROVED:
PABLO L. ESCUADROMPA
DISTRICT ENGINEER
DATE: 07/29/25

SET NO.: 09 / A 40
SHEET NO.: 09 / 98

NOTE:

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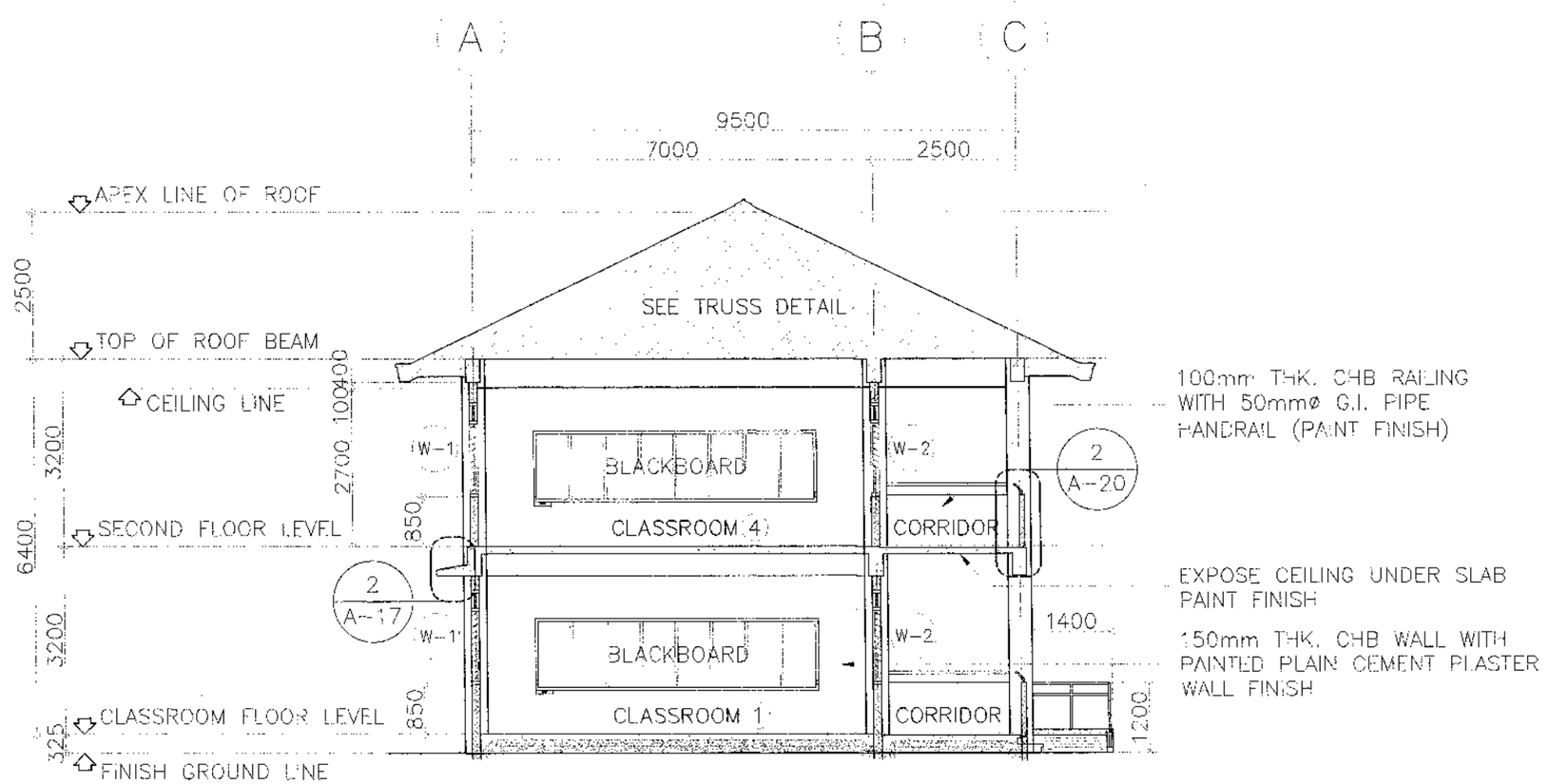

1 / A10 CROSS SECTION

SCALE 1:100 METERS

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REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
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SHEET CONTENTS:
- AS SHOWN

PREPARED:	REVIEWED:	COMMITTED:	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOU Q. SARMIENTO ARCHITECT II DATE: 07/24/25	GRACE Y. COMALING ENGINEER II ASST CHIEF HOUSING AND BUILDING SECTION DATE: 07/25/25	BRIAN B. [illegible] ENGINEER III CHIEF HOUSING AND BUILDING SECTION DATE: 07/28/25	MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 07/29/25	PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 07/29/25

SET NO: 10 / A 40
SHEET NO: 10 / 98

CEILING FINISHES :

CL1	EXPOSED UNDERSIDE OF CONCRETE SLAB (WITH PAINTED FINISH)
CL2	4.5mm THICK FIBER CEMENT BOARD (PAINTED) ON METAL FURRING CHANNELS @ 400mm O.C.

NOTE:

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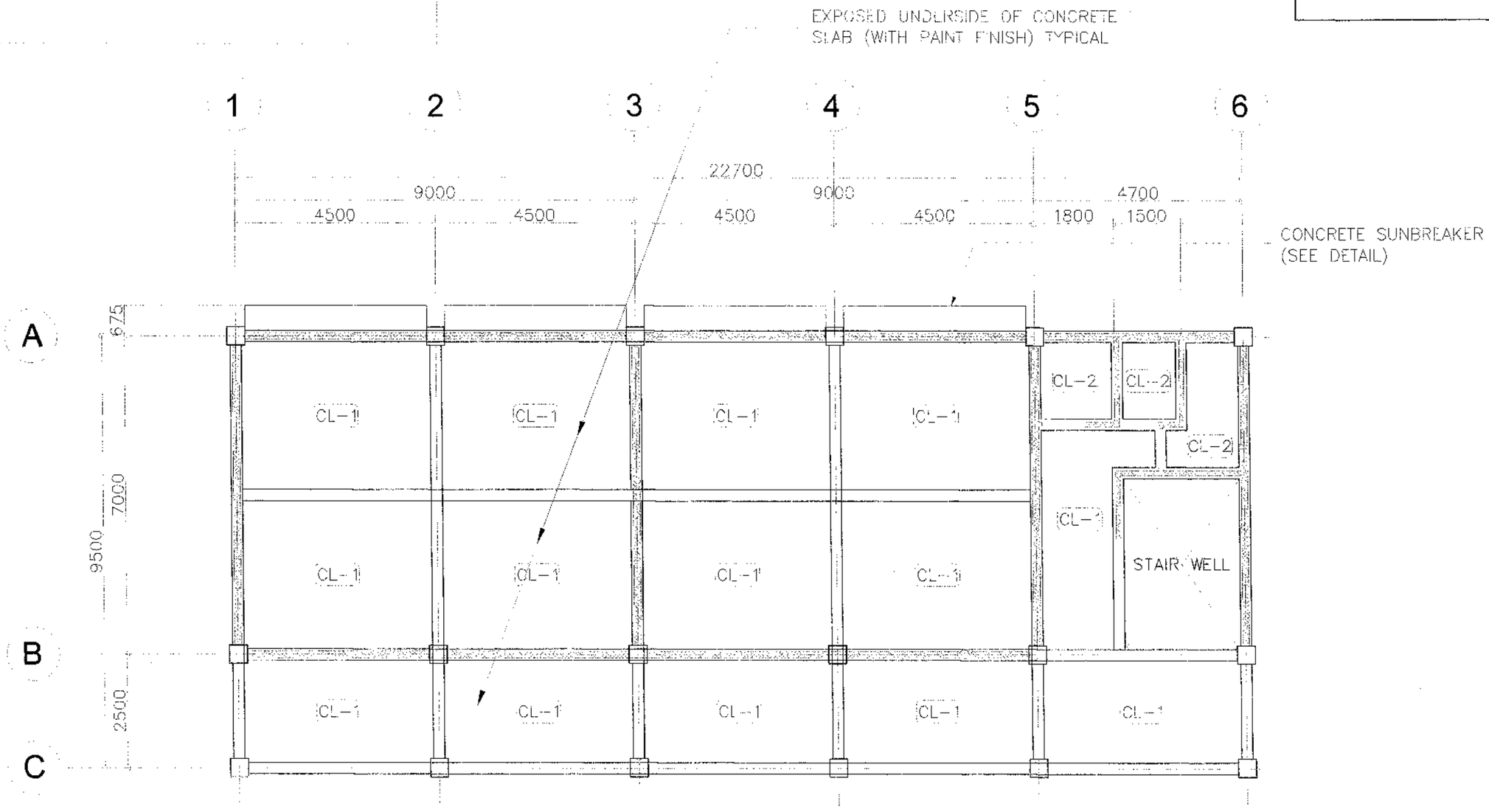

1/A11 GROUND FLOOR REFLECTED CEILING PLAN

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II	GRACE Y. COMALING, ENGINEER III, ASST. CHIEF, PLANNING AND DESIGN SECTION	BRIAN B. VILLANUEVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE: 07/28/15	DATE: 07/28/15	DATE: 07/28/15	DATE: 07/29/15	DATE: 07/29/15

SET NO: 11 A 40 | SHEET NO: 11 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.

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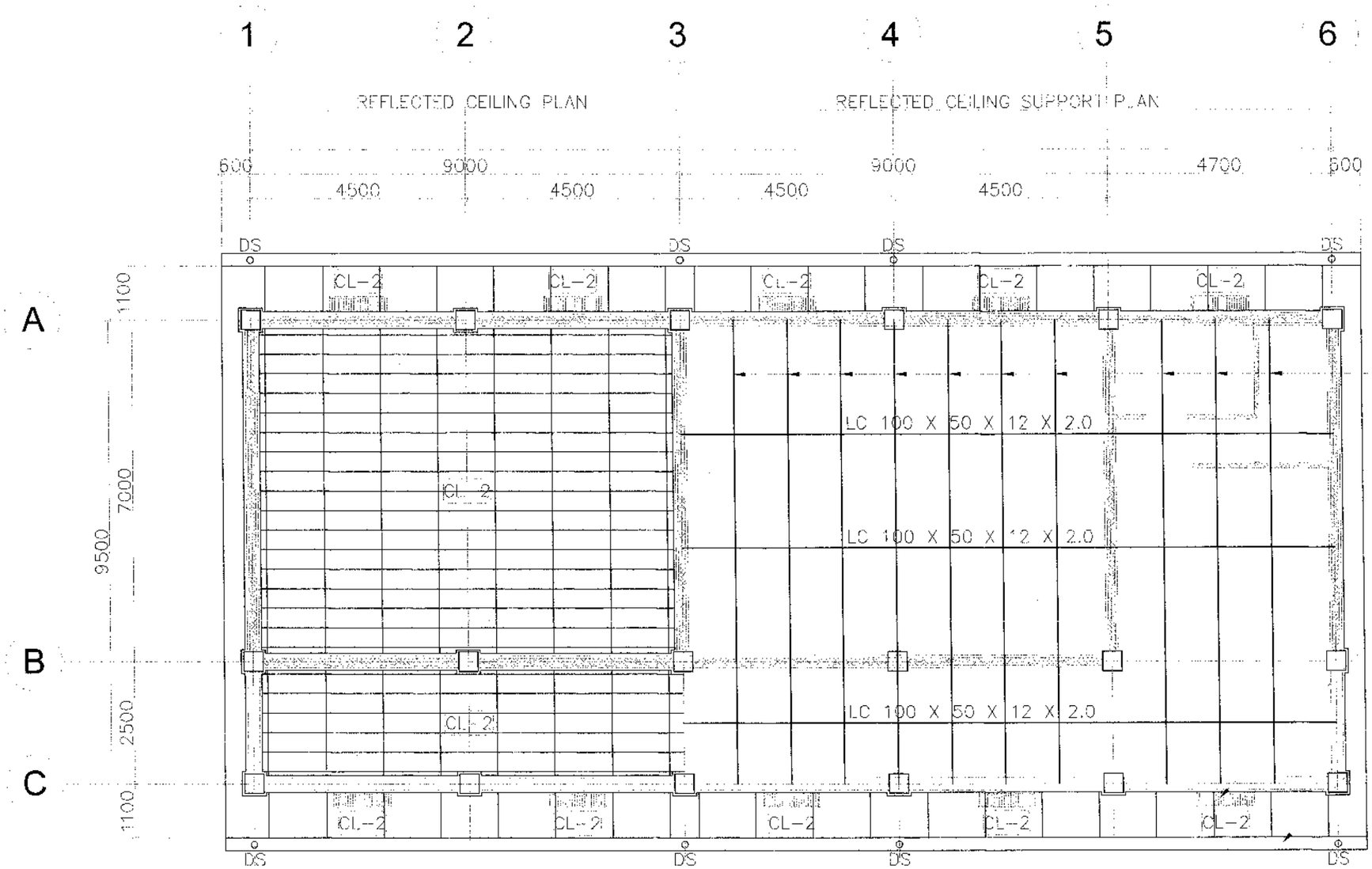

25 x 25 x 300mm WOOD SLATS @ 25mm CLEAR SPACINGS CEILING VENTILATION (PROVIDE WIRE MESH INSIDE), TYPICAL

0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. GUTTER WITH 12 x 300mm FIBER CEMENT FASCIA BOARD (PAINT FINISH)

1/A12 SECOND FLOOR REFLECTED CEILING 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**

SHEET CONTENTS: • AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT	GRACE Y. CONALING, ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION	BRIANA K. VILLANUEVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE: 01/24/25	DATE: 01/28/25	DATE: 01/28/25	DATE: 01/29/25	DATE: 01/29/25

SET NO.	SHEET NO.
12	12
A 40	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.

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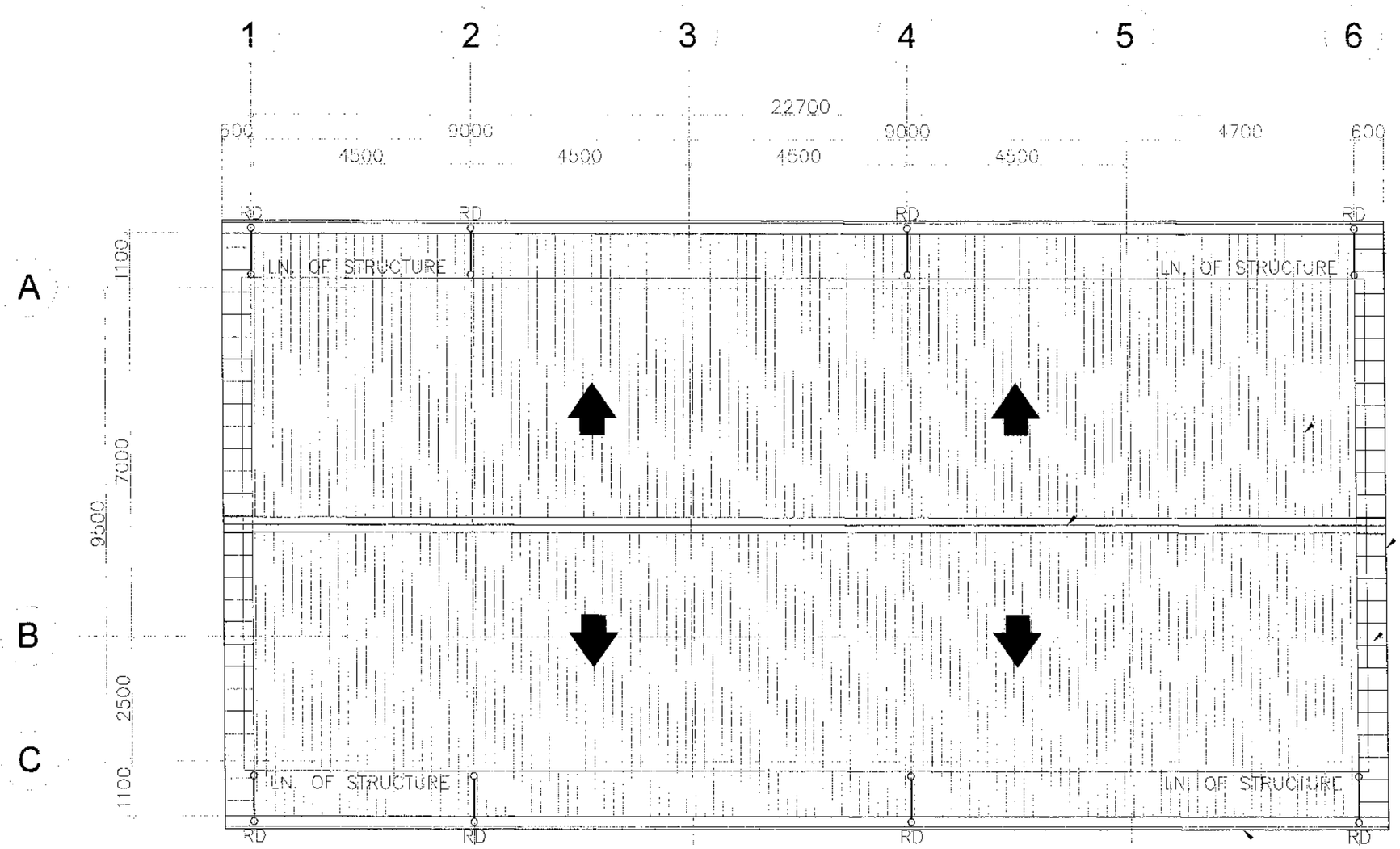

0.60mm THK. (BASE METAL THICKNESS) PRE-PAINTED ORDINARY RIDGE ROLL

0.40mm THICK (BASE METAL THICKNESS) LONG SPAN PRE-PAINTED G.I. ROOFING SHEETS WITH TOTAL COATED THICKNESS OF 0.50mm THICK.

0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. FLASHING SHEET WITH 12 x 300mm FIBER CEMENT FASCIA BOARD (PAINT FINISH)

ANGULAR BAR □40 x 40 x 5 x 500mm ON EVERY PURLINS

0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. GUTTER WITH 12 x 300mm FIBER CEMENT FASCIA BOARD (PAINT FINISH)

1 / A13 **ROOF 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**

SHEET CONTENTS: • AS SHOWN

PREPARED	REVIEWED	SUBMITTED	RECOMMENDED	APPROVED
DIXIE HANNAH LOU C. SARMIENTO, ENGINEER I	GRACE Y. COMALING, ASST. CHIEF PLANNING AND DESIGN SECTION	CHIEF PLANNING AND DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE: 04/29/25	DATE: 04/29/25	DATE: 04/29/25	DATE: 04/29/25	DATE: 04/29/25

SET NO. 13 | SHEET NO. A 40 | 13 / 98

NOTE:

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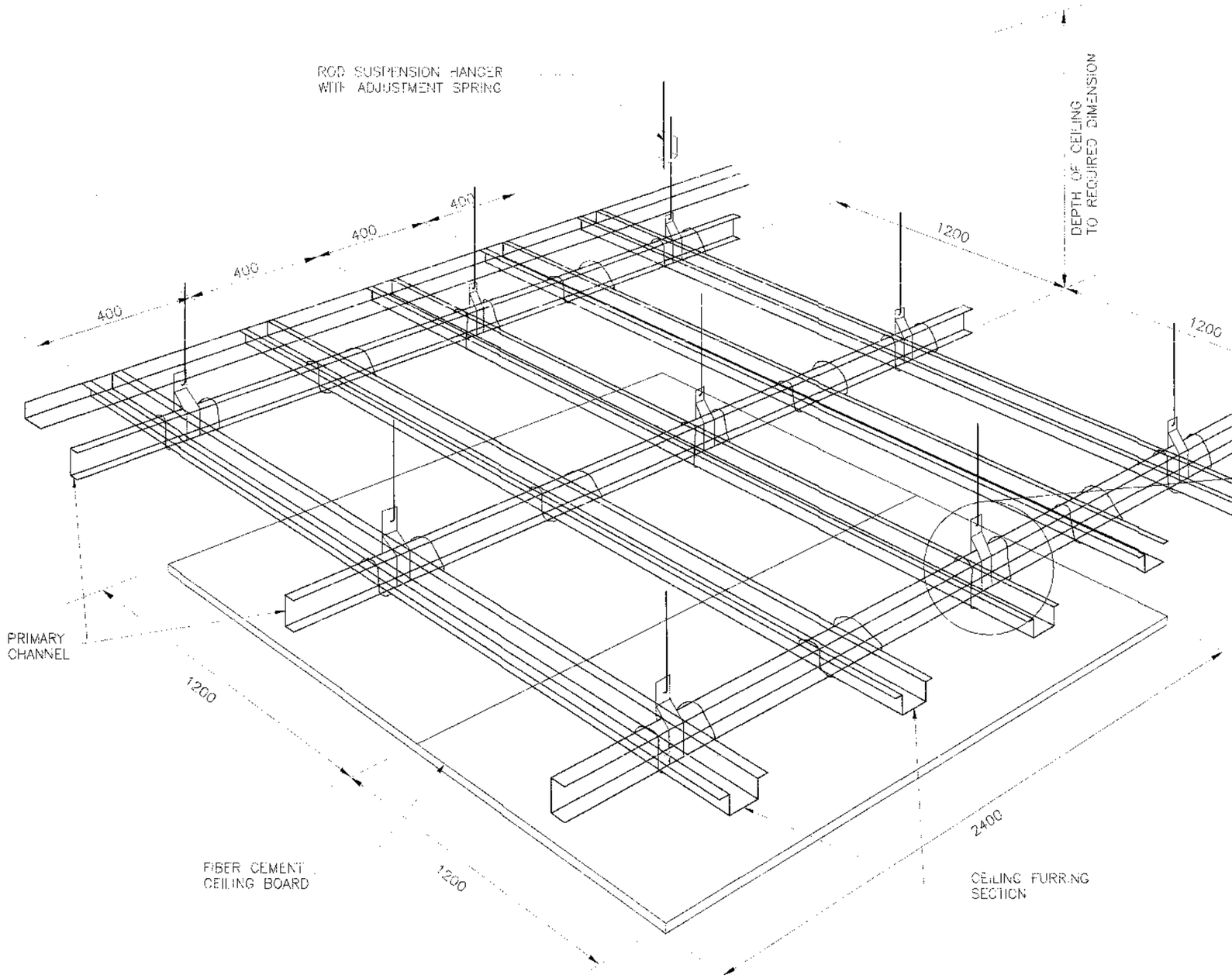
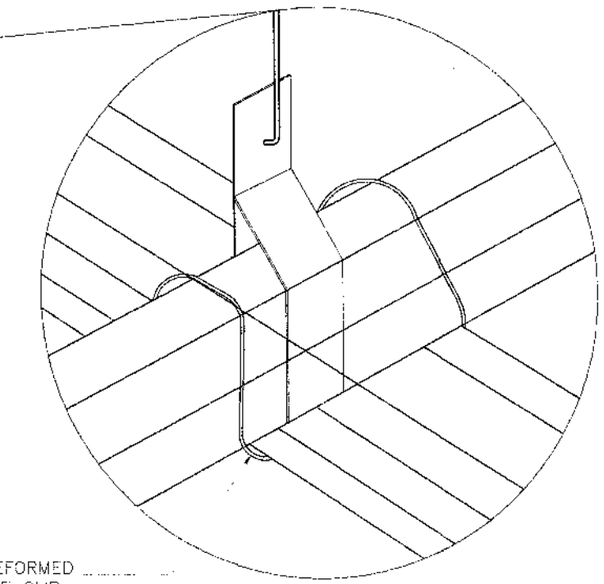




SPOT DETAIL

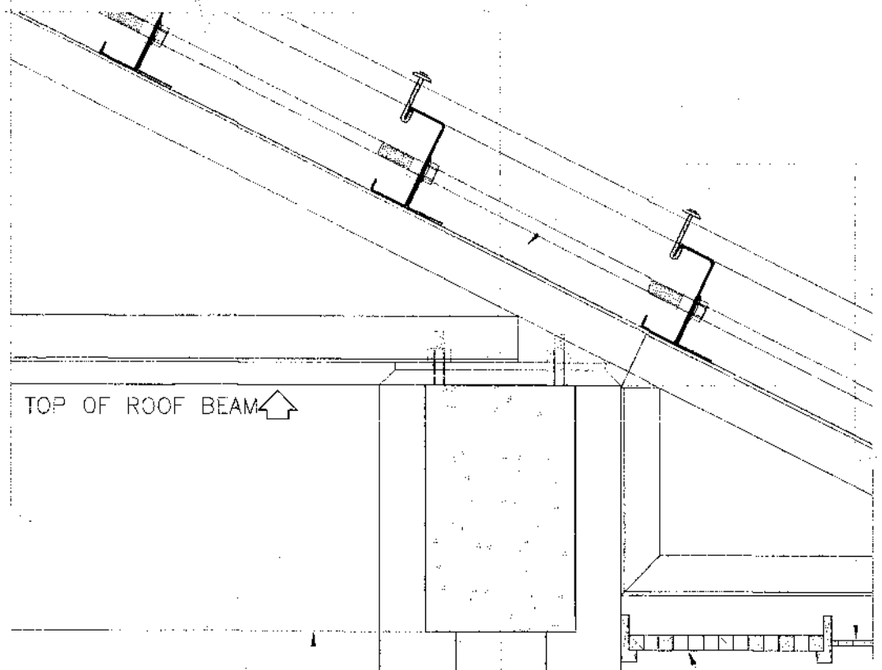
SCALE NOT TO SCALE

1 / A14 PERSPECTIVE (CEILING)

SCALE NOT TO SCALE

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET CONTENTS • AS SHOWN	PREPARED DIXIE HANNAH LOU C. SARMIENTO ARCHITECT II DATE: 04/24/25	REVIEWED GRACE Y. COMALING ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 04/24/25	SUBMITTED BRIAN V. VILLANUEVA ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE: 04/28/25	RECOMMENDED MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 04/29/25	APPROVED PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 04/29/25	SET NO 14 A 40	SHEET NO 14 98

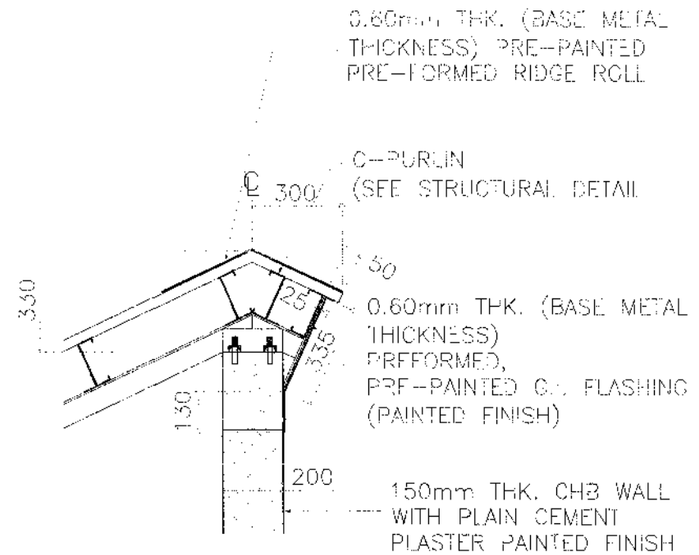
A



SEE TRUSS DETAIL

4.5mm THK. FIBER CEMENT CEILING BOARD (PAINTED) ON METAL FURRING CHANNEL @ 400mm O.C. (SEE DETAIL)

2 / A15 SPOT DETAIL (CORNER CLG.)
SCALE 1:10 METERS



3 / A15 SPOT DETAIL
SCALE 1:20 METERS

NOTE:

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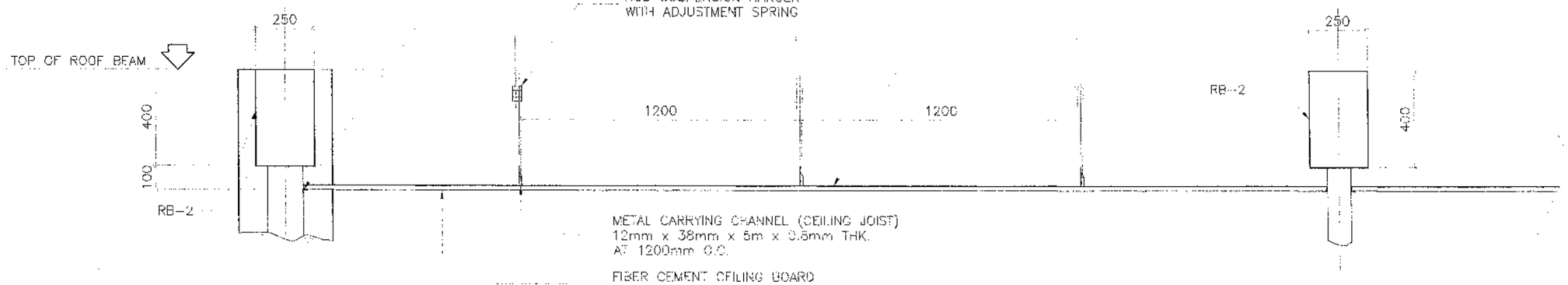
1

ANGLE ∠20 X 20 X 2 ATTACHED TO CHB WALL W/ TOKS SCREWS @ 600 O.C.

ROD SUSPENSION HANGER WITH ADJUSTMENT SPRING

2

METAL DOUBLE FURRING CHANNEL (NAILER) 12mm x 38mm x 5m x 0.8mm THK. AT 400mm O.C.



METAL CARRYING CHANNEL (CEILING JOIST) 12mm x 38mm x 5m x 0.8mm THK. AT 1200mm O.C.

FIBER CEMENT CEILING BOARD 4.5mm THK.

1 / A15 SECTION (CEILING)
SCALE 1:20 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT DATE	REVIEWED: **GRACE Y. CONALING** ENGINEER II ASST. CHIEF, STRUCTURAL DESIGN SECTION DATE	SUBMITTED: **ERNALYN VILLANUEVA** ENGINEER III CHIEF, ARCHITECTURAL DESIGN SECTION DATE	RECOMMENDED: **MARIA U. FLOREN** ASS'T DISTRICT ENGINEER DATE	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE	SET NO 15 A 40	SHEET NO 15 98

NOTE:

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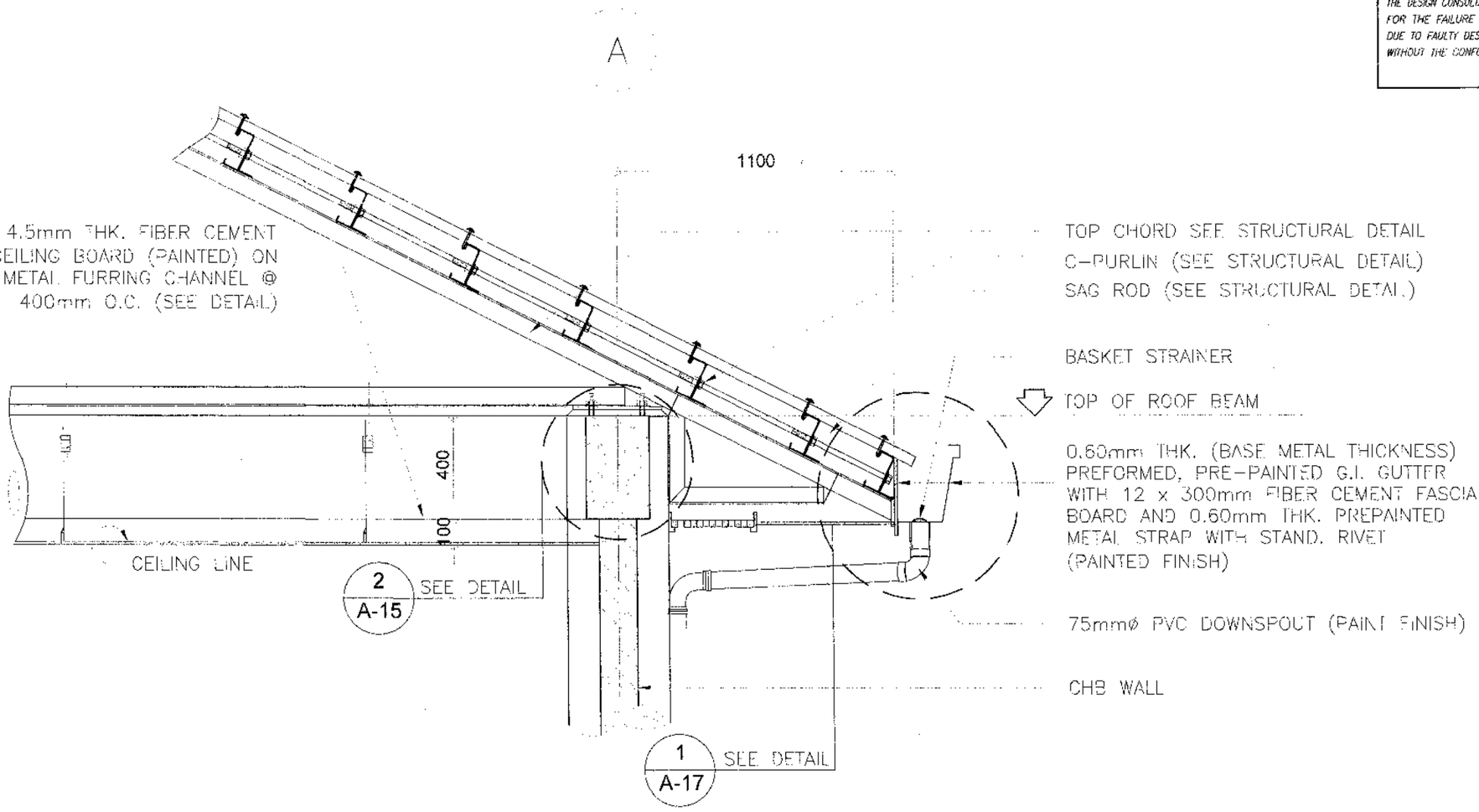
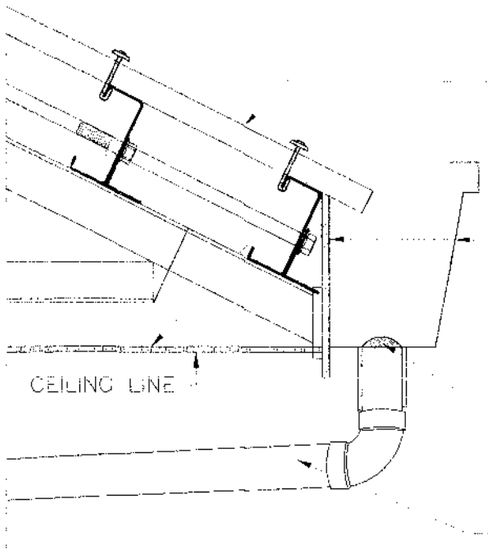


1 / A16 SECTION DETAIL (EAVES)

SCALE 1:20 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS • AS SHOWN	PREPARED **DIXIE MARIAN LOU C. SARMIENTO** ASSISTANT II DATE 04/24/13	REVIEWED **GRACE Y. CONALING** ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE 04/25/13	SUBMITTED **BRIAN B. VILLANUEVA** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE 04/25/13	RECOMMENDED **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE 04/29/13	APPROVED **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE 04/29/13	SET NO. 16 A 40	SHEET NO. 16 98



0.40mm THICK (BASE METAL THICKNESS) LONG SPAN PRE-PAINTED G.I. ROOFING SHEETS WITH TOTAL COATED THICKNESS OF 0.43-0.45mm THICK.

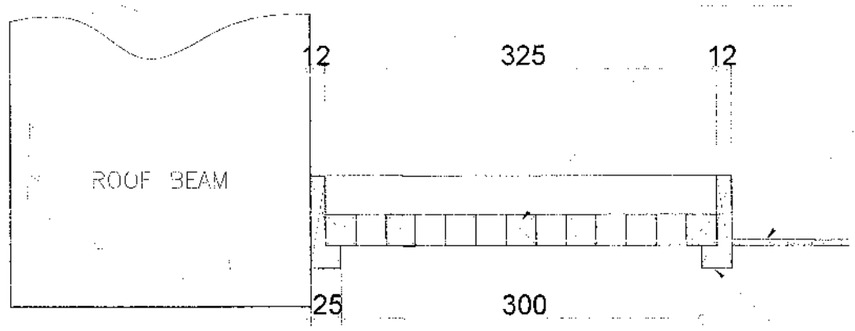
4.5mm THK. FIBER CEMENT CEILING BOARD (PAINTED) ON METAL FURRING CHANNEL @ 400mm O.C. (SEE DETAIL)

0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. GUTTER WITH 12 x 300mm FIBER CEMENT FASCIA BOARD AND 0.60mm THK. PREPAINTED METAL STRAP WITH STAND. RIVE (PAINTED FINISH)

BASKET STRAINER

75mmø PVC DOWNSPOUT (PAINTED FINISH)

1 A17 SPOT DETAIL (EAVES)
SCALE 1:10 METERS

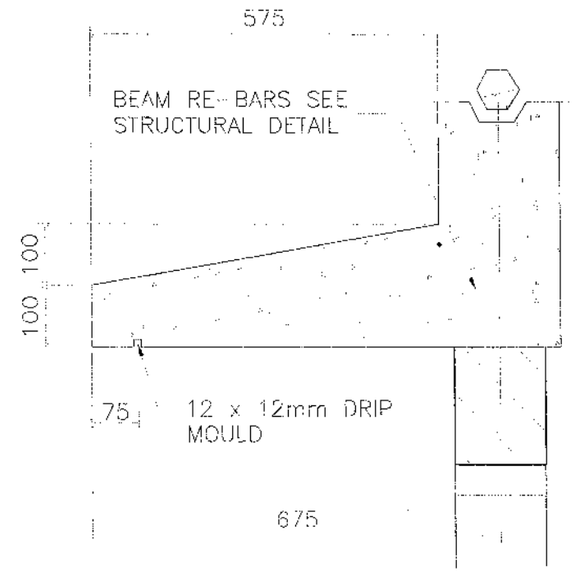


25 x 25mm WOOD SLAT PROVIDE INSECT SCREEN

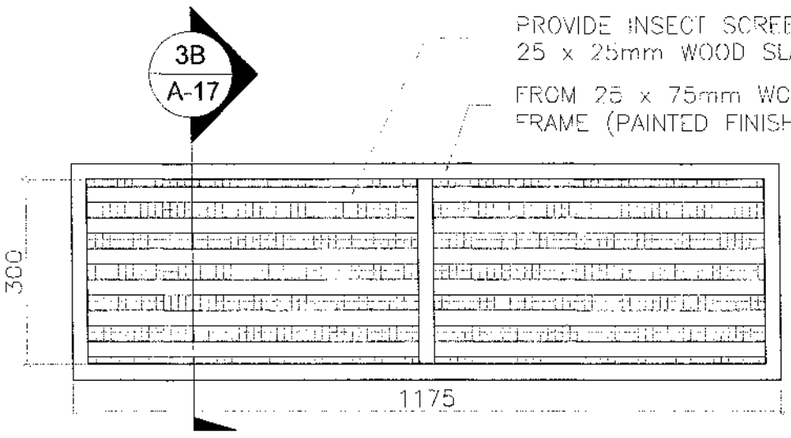
4.5mm THK. FIBER CEMENT CEILING BOARD (PAINTED) ON METAL FURRING CHANNEL @ 400mm O.C. (SEE DETAIL)

FR.25x75mm VENT FRAME (PAINT FINISH)

3B A17 DETAIL SECTION
SCALE 1:5 METERS



2 A17 CONCRETE SUN BREAKER DETAIL
SCALE 1:10 METERS



PROVIDE INSECT SCREEN 25 x 25mm WOOD SLAT

FROM 25 x 75mm WOOD FRAME (PAINTED FINISH)

3A A17 VENT DETAILS
SCALE 1:10METERS

3 A17 VENT DETAILS
SCALE AS SHOWN

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
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PAGADIAN CITY

PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**

SHEET CONTENTS: • AS SHOWN

PREPARED: **DIXIE HANNA LOU C. SARMIENTO** ARCHITECT II — DATE: 07/24/25

REVIEWED: **GRACE Y. COMALING** ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION — DATE: 07/28/25

SUBMITTED: **BRIAN K. DELLANEVA** ENGINEER II, CHIEF, PLANNING AND DESIGN SECTION — DATE: 07/28/25

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 A 40 | SHEET NO. 17 98

NOTE:

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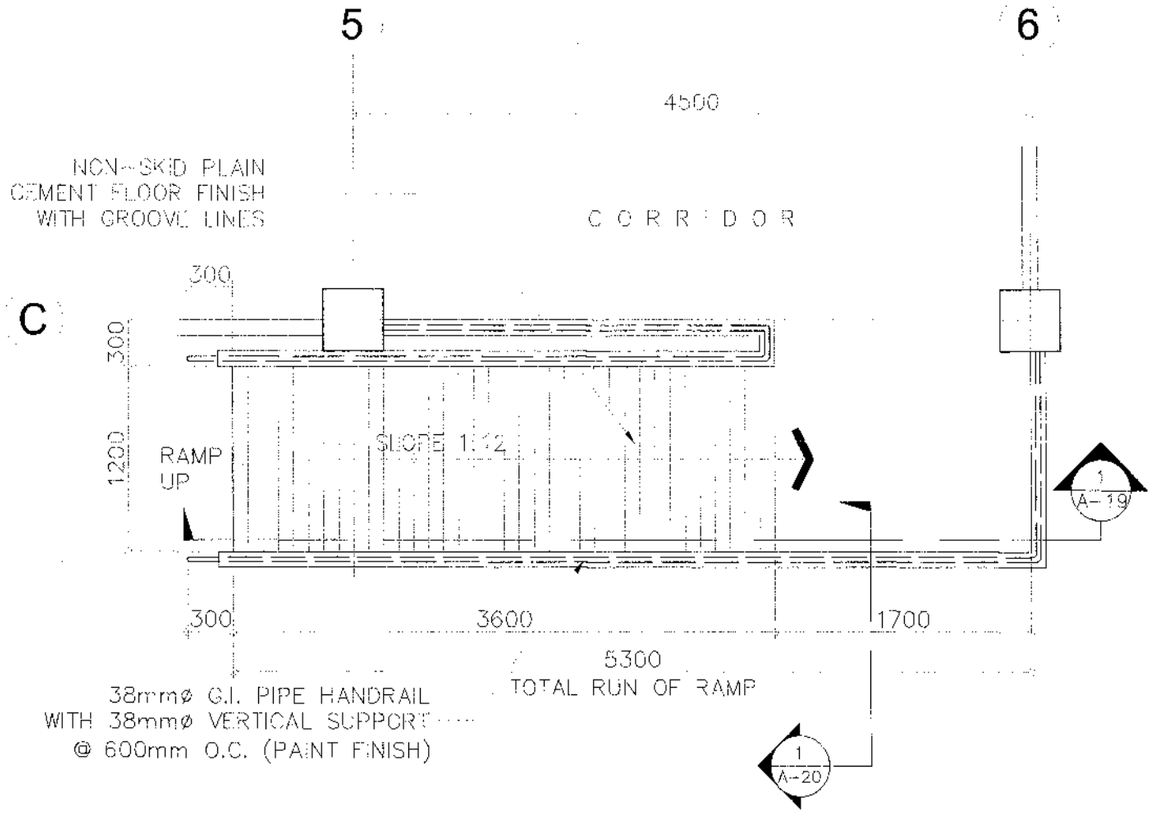
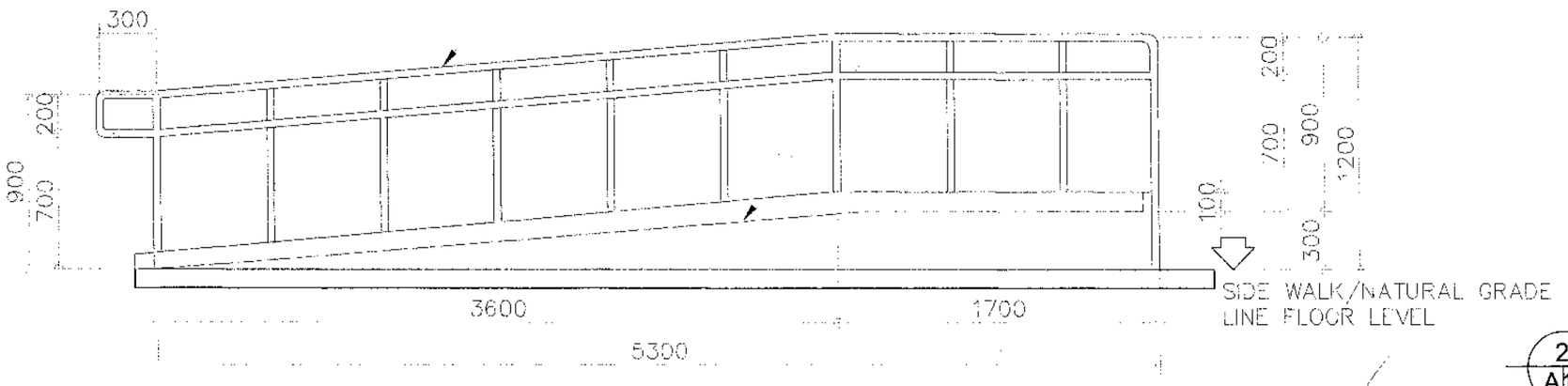


1 A18 **DETAIL PLAN OF RAMP**

SCALE 1:40 METERS

38mmø G.I. PIPE HANDRAIL
WITH 38mmø VERTICAL SUPPORT
@ 600mm O.C. (PAINT FINISH)

NON-SKID PLAIN CEMENT FLOOR FINISH WITH GROOVE LINES



2 A18 **DETAIL ELEVATION OF RAMP**

SCALE 1:30 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
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PREPARED: **DIXIE HANNAH LOU C. SARMIENTO**, ARCHITECT II, DATE 07-29-25

REVIEWED: **GRACIA T. COMALING**, ENGINEER, ASST. CHIEF PLANNING AND DESIGN SECTION, DATE 07-29-25

SUBMITTED: **DARLENE V. VILLANUEVA**, ENGINEER, CHIEF PLANNING AND DESIGN SECTION, DATE 07-28-25

RECOMMENDING: **MARIA U. FLOREN**, ASSISTANT DISTRICT ENGINEER, DATE 07-29-25

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

SET NO. 18 A 40 | SHEET NO. 18 / 98

NOTE:

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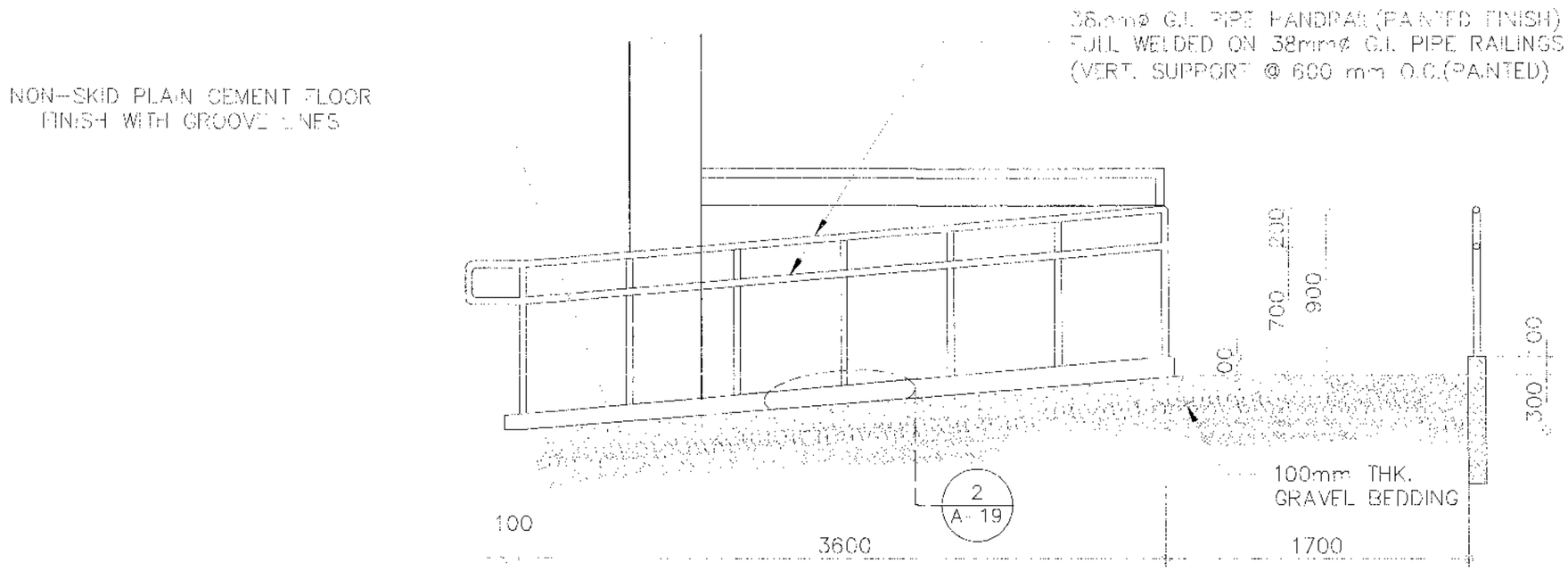
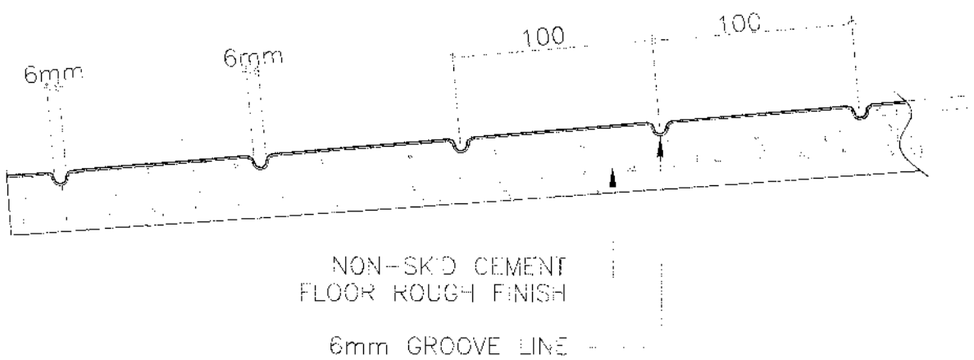


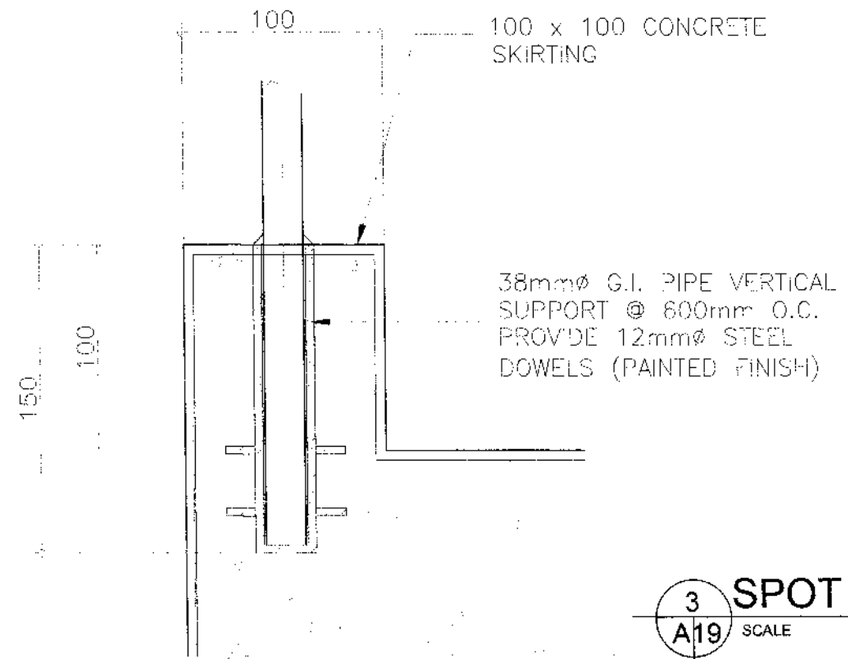
1/A19 DETAIL SECTION OF RAMP

SCALE 1:30 METERS



2/A19 SPOT DETAIL

SCALE 1:3METERS



3/A19 SPOT DETAIL

SCALE 1:3METERS

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT DATE:	REVIEWED: **GRACE V. COMALING** ENGINEER I ASST. CHIEF, PLANNING AND DESIGN SECTION DATE:	SUBMITTED: **BRIAN B. VILLANUEVA** ENGINEER II CHIEF, PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE: 09/29/25
						APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 09/29/25

SET NO: 19 / A 40 — SHEET NO: 19 / 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.

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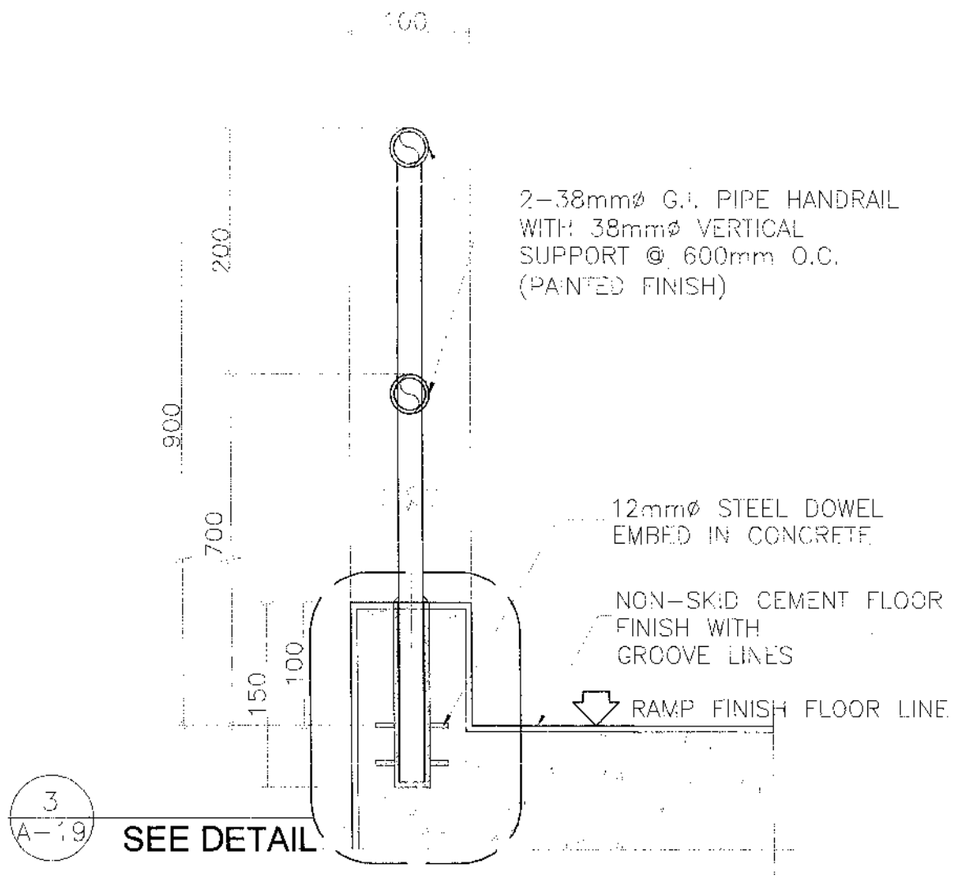
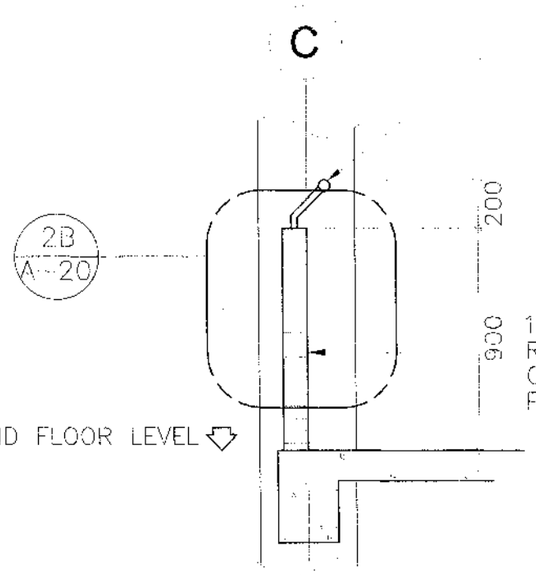


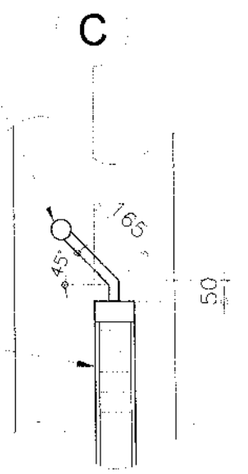
1 A20 DETAIL SECTION
SCALE 1:5METERS



2A A20 DETAIL SECTION
SCALE 1:25METERS

50mm G.I. PIPE SCHEDULE 40 HANDRAIL w/ 19mm SQUARE BAR BRACKET SPACED @ 600mm O.C. (EPOXY PAINTED FINISH)

100mm THK. CHB RAILING WITH PLAIN CEMENT PLASTER PAINTED FINISH



2B A20 DETAIL SECTION
SCALE 1:25METERS

2 A20 BALCONY RAILING DETAIL
SCALE AS SHOWN

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**

SHEET CONTENTS: • AS SHOWN

PREPARED: DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT V, DATE 09/24/25

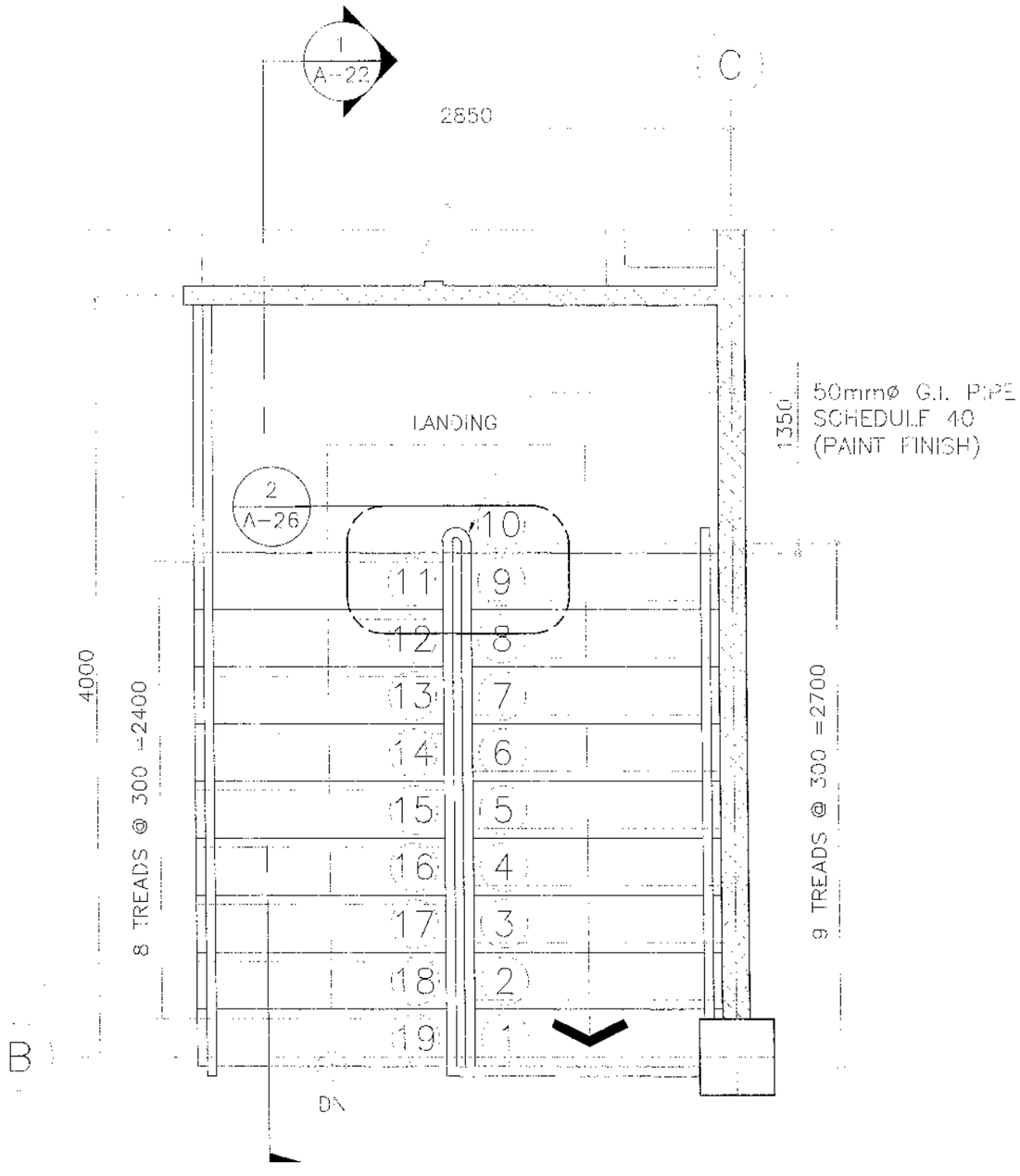
REVIEWED: GRACE Y. COMALING, ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION, DATE 09/26/25

SUBMITTED: BRIAN B. VILLANUEVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION, DATE 09/28/25

RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE 09/29/25

APPROVED: PABLO L. ESCUADRO, MEA, DISTRICT ENGINEER, DATE 09/30/25

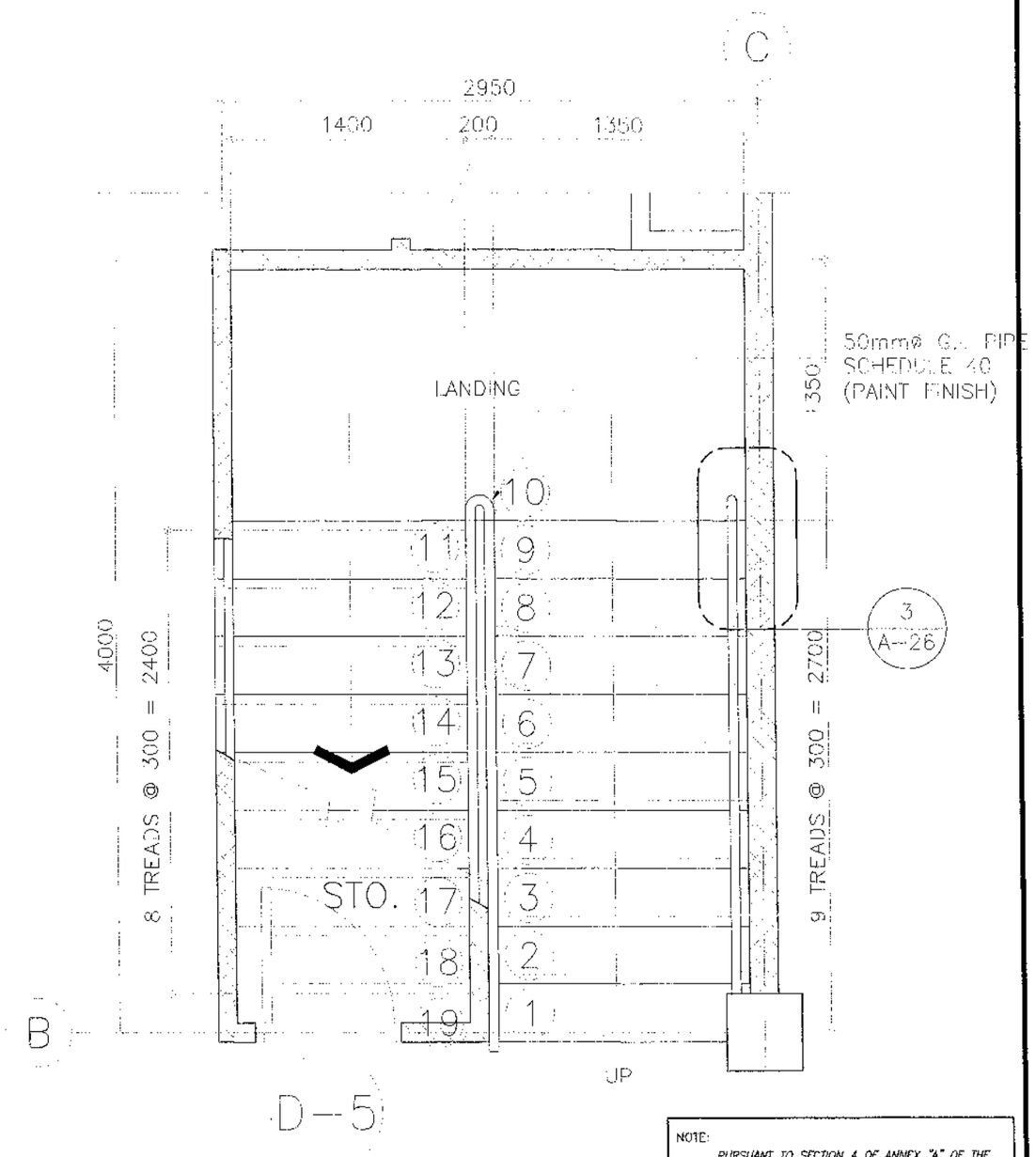
SET NO. 20 A 40 | SHEET NO. 20 98



AT SECOND FLOOR

DETAIL PLAN OF STAIR

1/A21 SCALE 1:30 METERS



AT GROUND FLOOR

DETAIL PLAN OF STAIR

2/A21 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.

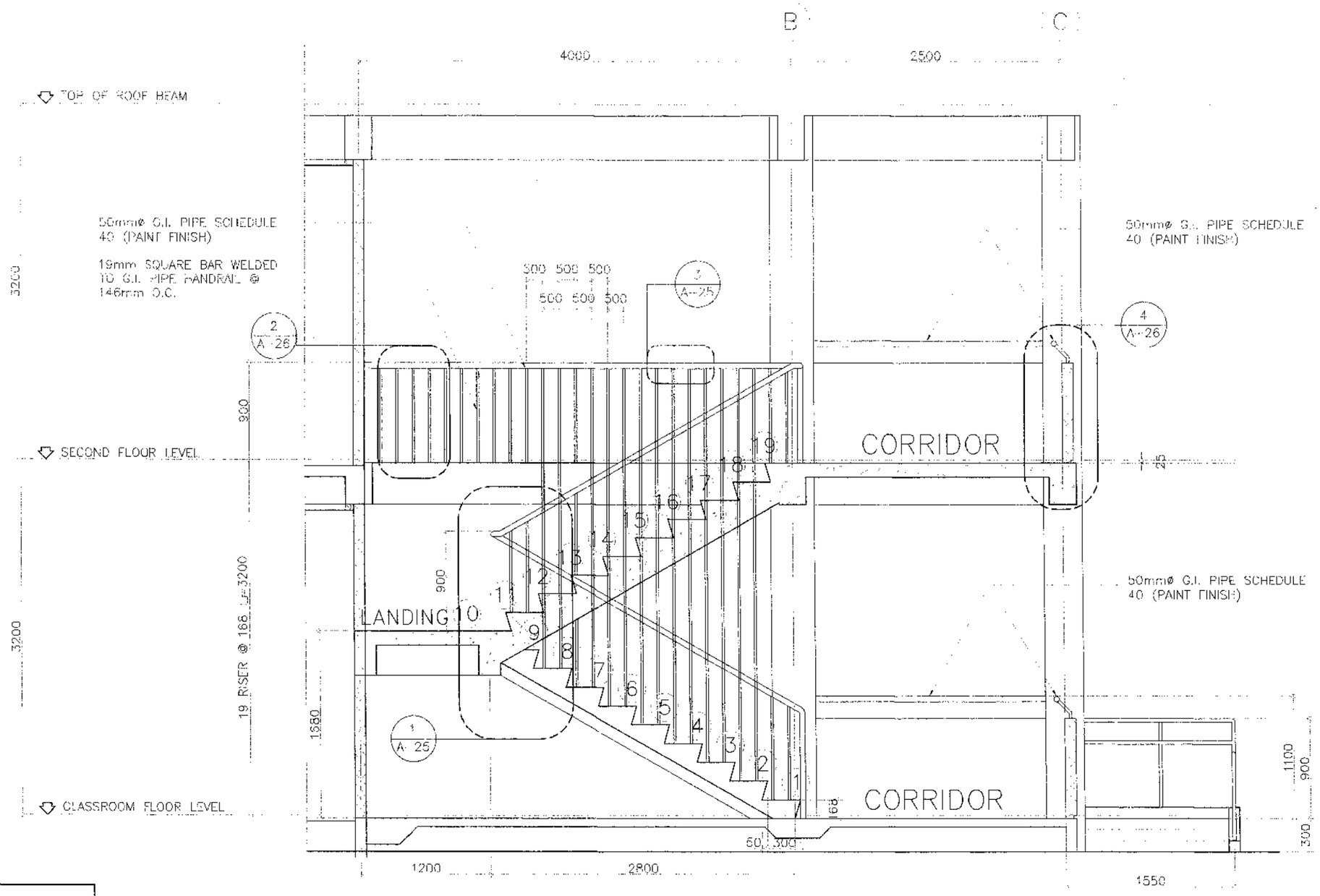
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

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

SHEET CONTENTS: • AS SHOWN

PREPARED	REVIEWED	NOTED	RECOMMENDED	APPROVED
DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II	GRACE Y. COMALING, ENGINEER III, ASST. CHIEF, PLANNING AND DESIGN SECTION	ERVIN E. VILLANUEVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE 01/24/25	DATE 01/24/25	DATE 01/24/25	DATE 01/24/25	DATE 01/24/25

SET NO. 21 | SHEET NO. A 40 | 21 / 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.

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1/A22 DETAIL SECTION OF STAIR

SCALE 1:40 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:	REVIEWED	SUBMITTED	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOU C. SARMIENTO	GRACE Y. COMALING	ENGR. [illegible]	MARIA U. FLOREN	PABLO L. ESCUADRO, MPA
ENGINEER II	ENGINEER II	ENGINEER II	ASSISTANT DISTRICT ENGINEER	DISTRICT ENGINEER
ASST. CHIEF, PLANNING AND DESIGN SECTION		CHIEF, PLANNING AND DESIGN SECTION		
DATE: 07/24/25	DATE: 07/25/25	DATE: 07/28/25	DATE: 07/29/25	DATE: 07/29/25

SET NO. 22 A 40 | SHEET NO. 22 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 7160, 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.

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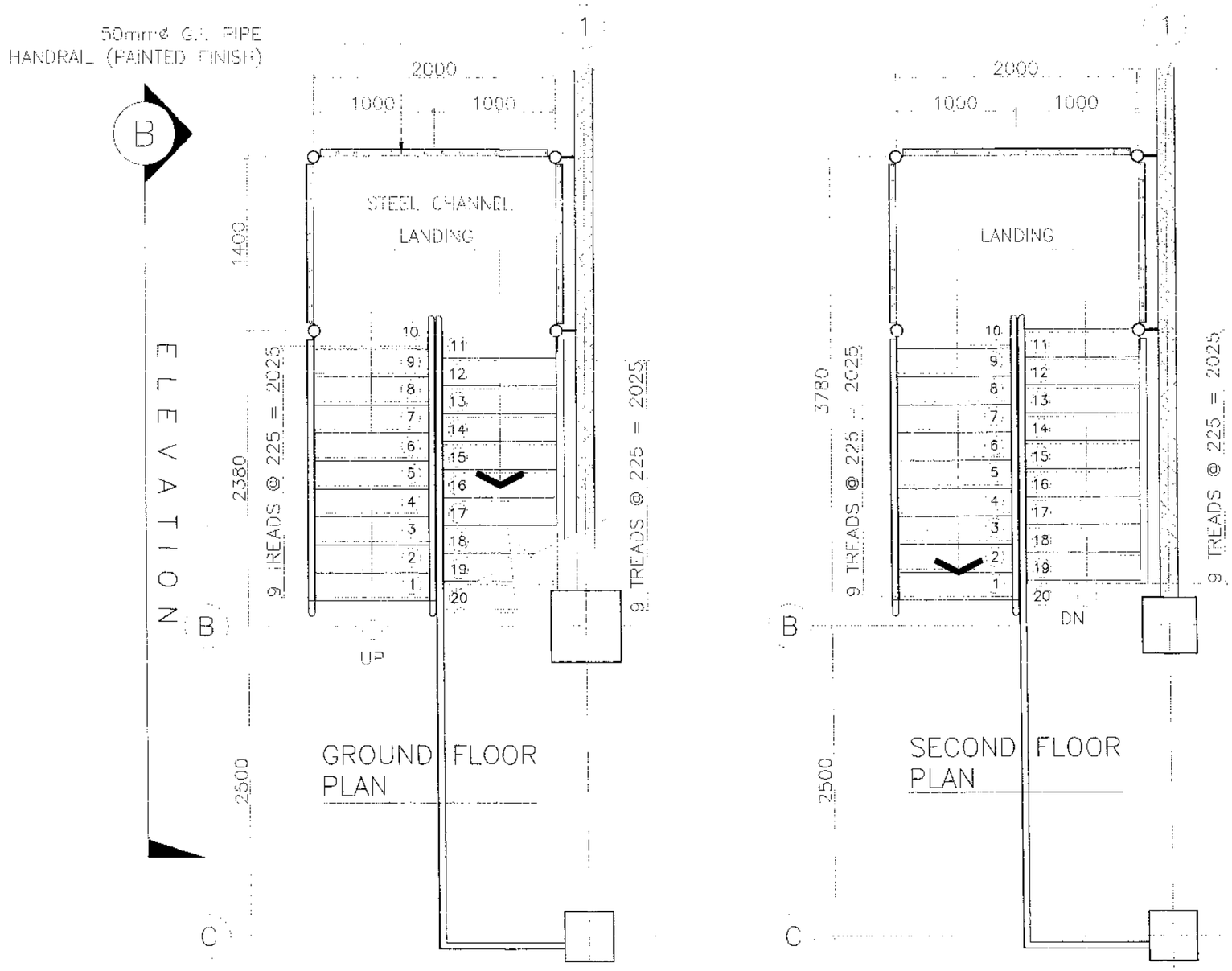

1/A23 DETAIL PLAN OF FIRE ESCAPE STAIR

SCALE 1:40 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS • AS SHOWN	PREPARED **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT II DATE: 07/24/25	REVIEWED **GRACE V. COMALING** ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 07/25/25	SUBMITTED **BRIAN A. VILLARUZ, CE** ENGINEER II CHIEF, PLANNING AND DESIGN SECTION DATE: 07/25/25	RECOMMENDED **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE: 07/28/25	APPROVED **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 07/29/25	SHT NO. 23 A 40 SHEET NO. 23 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.

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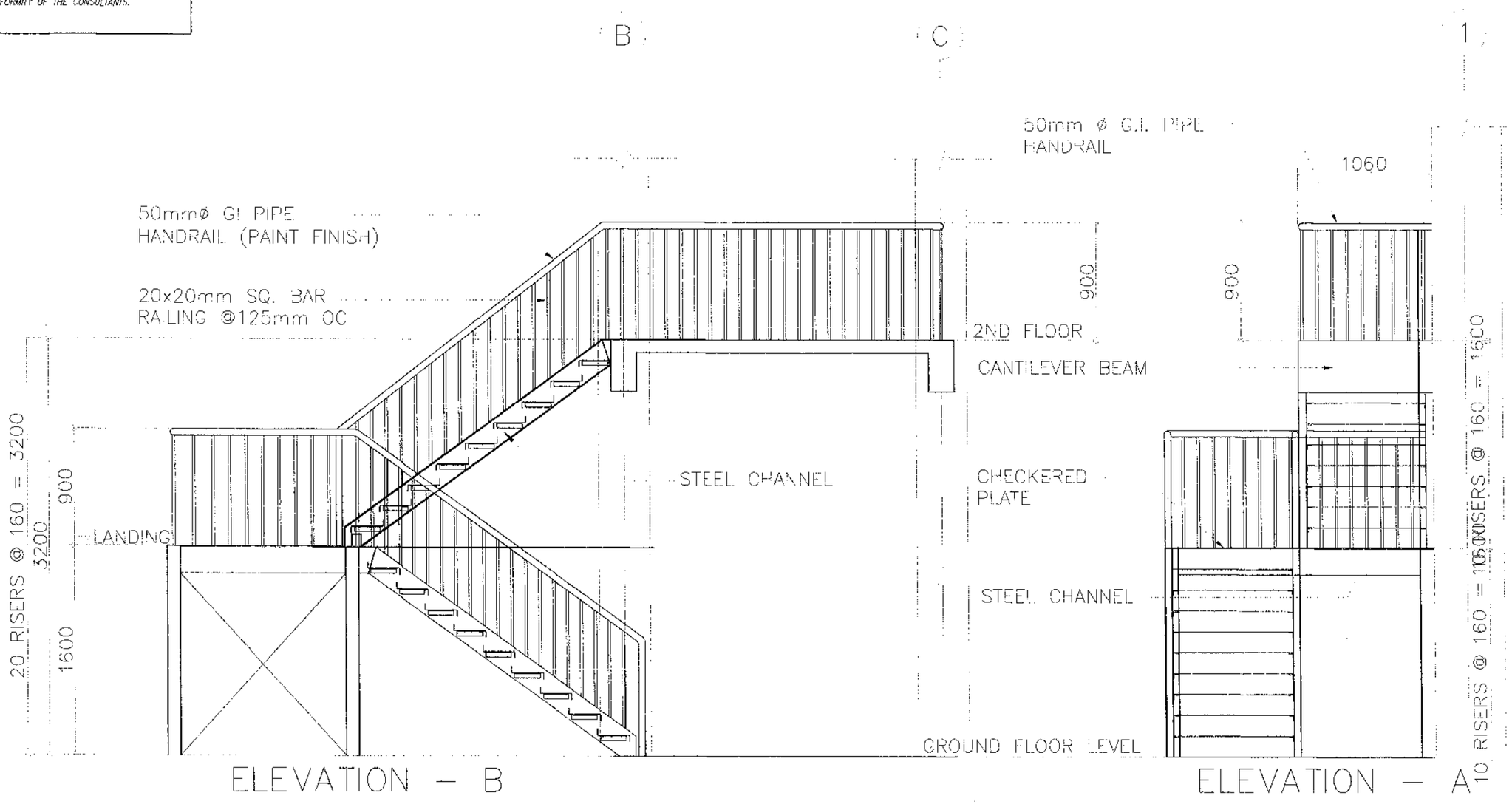
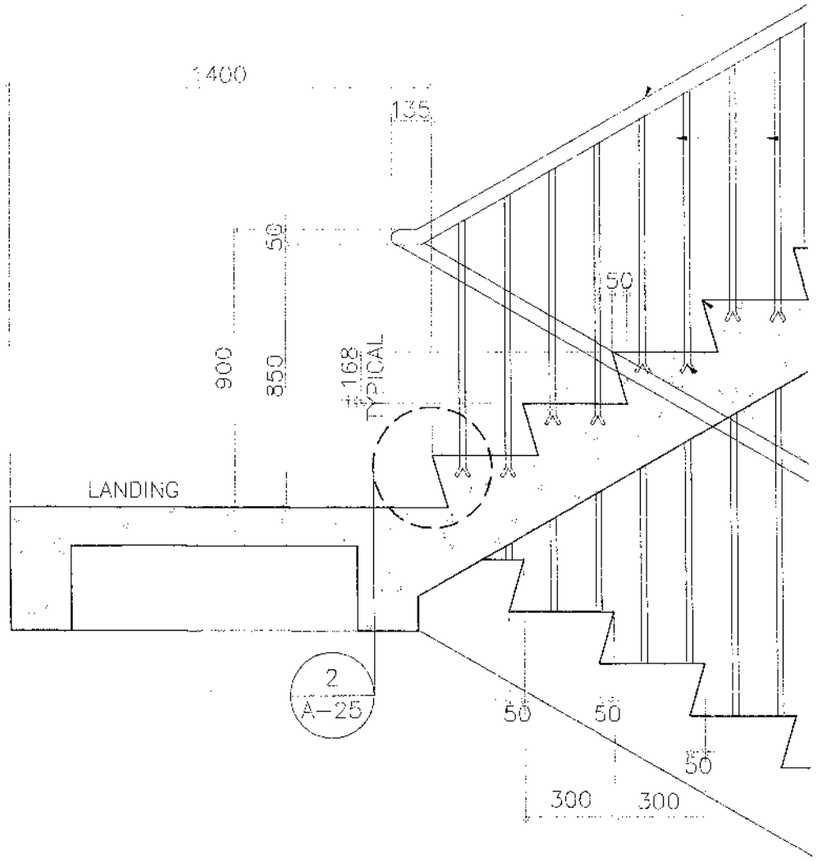


1 / A24 DETAIL ELEVATION OF FIRE ESCAPE STAIR

SCALE 1:35 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT II DATE: 07/24/15	REVIEWED: **GRACE V. COMALING** ENGINEER II ASST. CHIEF E. ENGINEERING DESIGN SECTION DATE: 07/28/15	RECOMMENDED: **REJAN R. VILLANUEVA** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE: 07/28/15	APPROVED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE: 07/29/15	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 07/29/15	SET NO. 24 A 40	SHEET NO. 24 98



59mmø G... PIPE SCHEDULE 40 (PAINT FINISH)

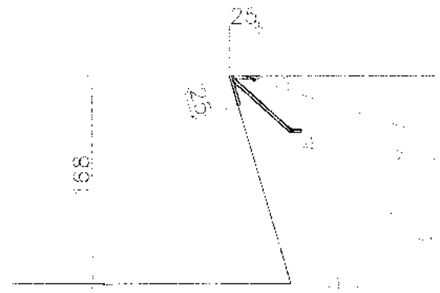
19mm SQUARE BAR WELDED TO G.I. PIPE HANDRAIL @ 146mm O.C.

2x25x25mm ANGULAR BAR NOSING @ STEP

ANCHOR @ R.C. STAIR

1 A25 SECTION DETAIL

SCALE 1:20 METERS

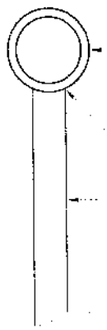


2x25x25mm ANGULAR BAR NOSING @ STEP

12x12x2mm FLAT BAR STRAP @ 600mm O.C.

2 A25 NOSING DETAIL

SCALE 1:5 METERS



50mmø G.I. PIPE SCHEDULE 40 (PAINT FINISH)

FULLY WELDED

19mm SQUARE BAR WELDED TO G.I. PIPE HANDRAIL @ 150mm O.C.

3 A25 HANDRAIL DETAIL

SCALE 1:3METERS

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.

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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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**

SHEET CONTENTS: • AS SHOWN

PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** PROJECT III — DATE: 01/24/25

REVIEWED: **GRACE Y. COMALING** ENGINEER IV, ASST. CHIEF P, PLANNING AND DESIGN SECTION — DATE: 01/25/25

SUBMITTED: **BRIANE VILBANUEVA** ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION — DATE: 01/28/25

RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER — DATE: 01/29/25

APPROVED: **PABLO L. ESQUADRO, MPA** DISTRICT ENGINEER — DATE: 01/29/25

SHEET NO: 25 A 40

SHEET NO.: 25 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.

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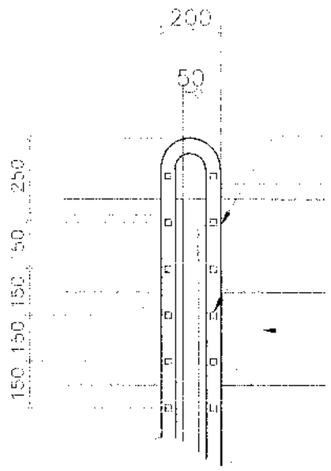


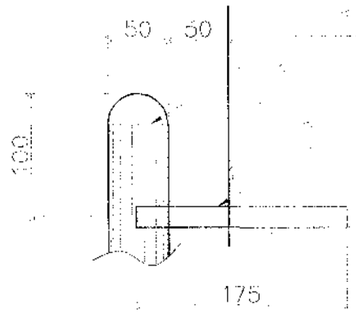
50mmø G.I. PIPE SCHEDULE 40 (PAINT FINISH)

19mm SQUARE BAR WELDED TO G.I. PIPE HANDRAIL @ 50mm O.C.

TREAD

2 A26 **SPOT DETAIL**

SCALE 1:5 METERS

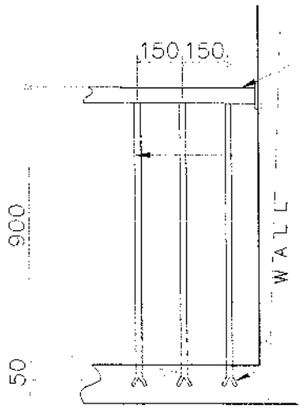


50mmø SCH. 40 G.I. PIPE (PAINT FINISH)

19mm SQ. BAR ANCHORED TO THE WALL (PAINT FINISH)

3 A26 **SPOT DETAIL**

SCALE 1:5 METERS



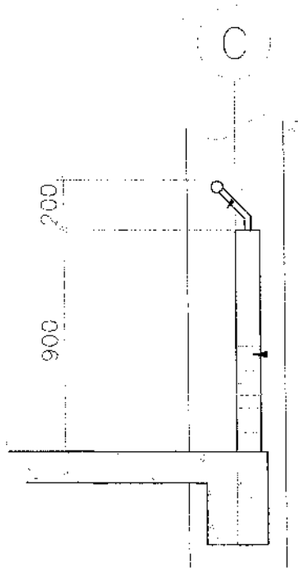
50mmø G.I. PIPE SCH. 40 (PAINT FINISH)

19mm SQUARE BAR WELDED TO G.I. PIPE HANDRAIL @ 146mm O.C.

ANCHOR @ R.C. STAIR

1 A26 **CRASH RAILING**

SCALE 1:20 METERS



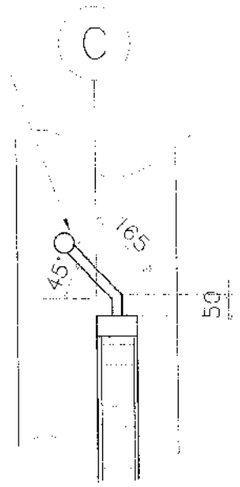
50mm G.I. PIPE SCH. 40 HANDRAIL w/ 19mm SQUARE BAR 600mm O.C. (PAINT FINISH)

100mm THK CHB RAILING PLASTER AND PAINT FINISH

▼ SECOND FLOOR LEVEL

ELEVATION

SCALE 1:25 M.



DETAIL

SCALE 1:15 M.

4 A26 **BALCONY RAILING DETAIL**

SCALE AS SHOWN

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET CONTENTS: • AS SHOWN	PREPARED: DIXIE HAZEL LOU C. SARMIENTO ARCHITECT II DATE: 07/29/25	REVIEWED: GRACE Y. COMALING ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 07/29/25	SUBMITTED: BRIAN B. VILLANUEVA ENGINEER III 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. 26 A 40	SHEET NO. 26 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.

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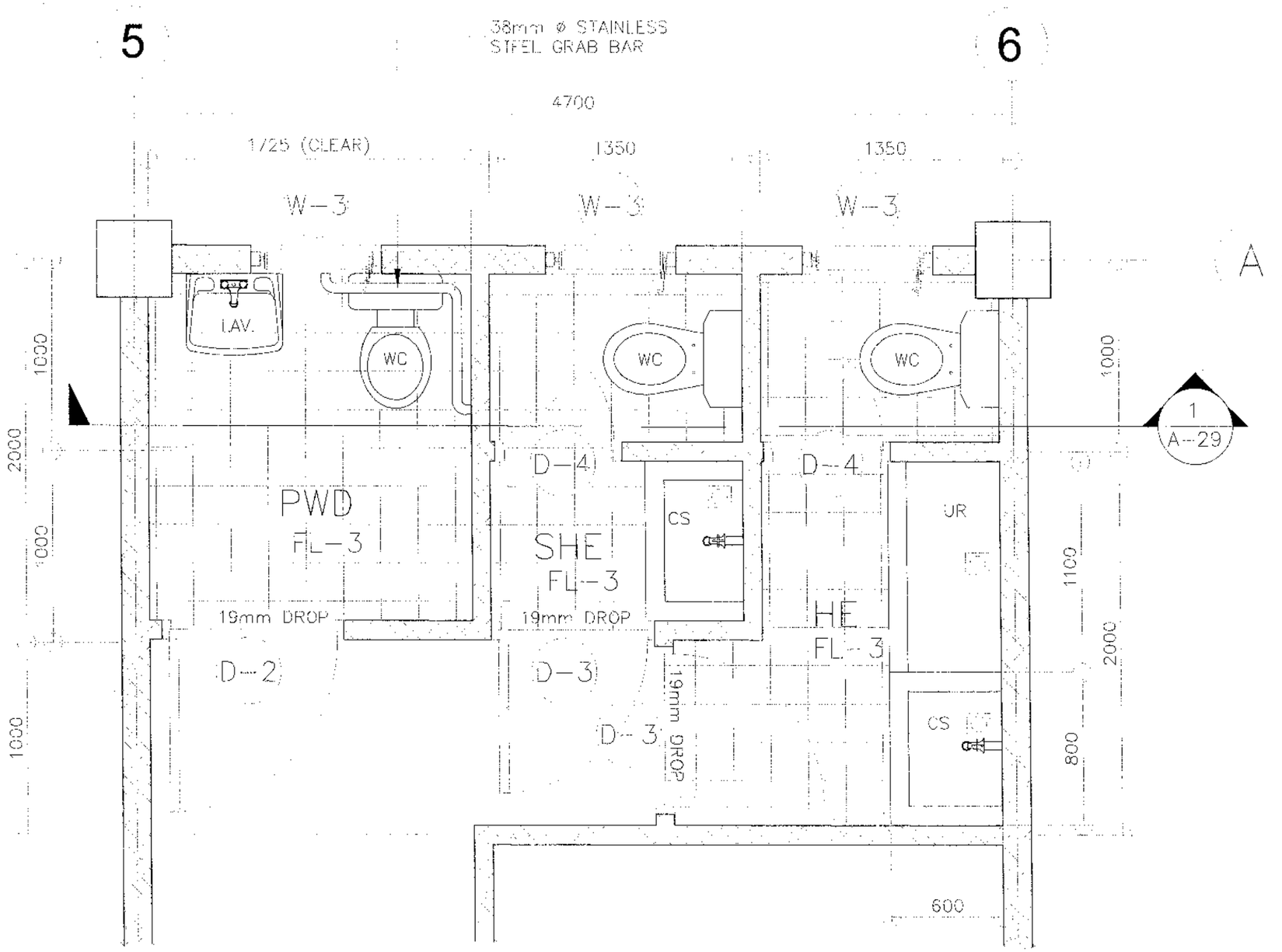

GROUND FLOOR

DETAIL PLAN OF TOILET

1/A27 SCALE 1:25 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT II DATE:	REVIEWED: **GRACE V. COMALING** ENGINEER I ASST. CHIEF, PLANNING AND DESIGN SECTION DATE	SUBMITTED: **RINALYN VILLANUEVA** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE	SET NO. 27 A 40	SHEET NO. 27 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.

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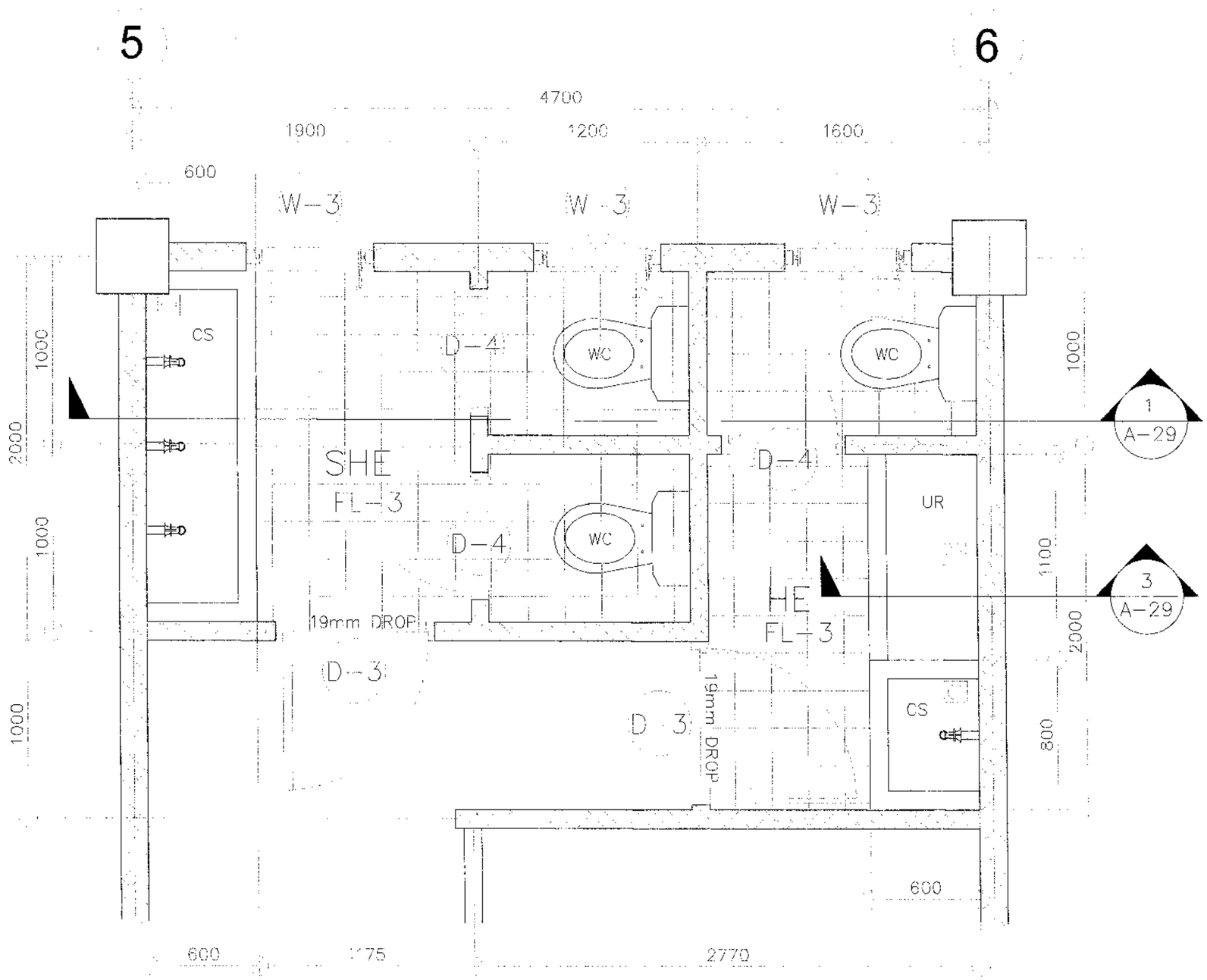

SECOND FLOOR

DETAIL PLAN OF TOILET

1 / A28 SCALE 1:25METERS

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT II DATE: 09/24/25	REVIEWED: **GRACE Y. COMALING** ENGINEER III ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 09/25/25	SUBMITTED: **BRIAN R. VILLANUEVA** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE: 09/28/25	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE: 09/29/25	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 09/29/25	SET NO. 28 A 40	SHEET NO. 28 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.

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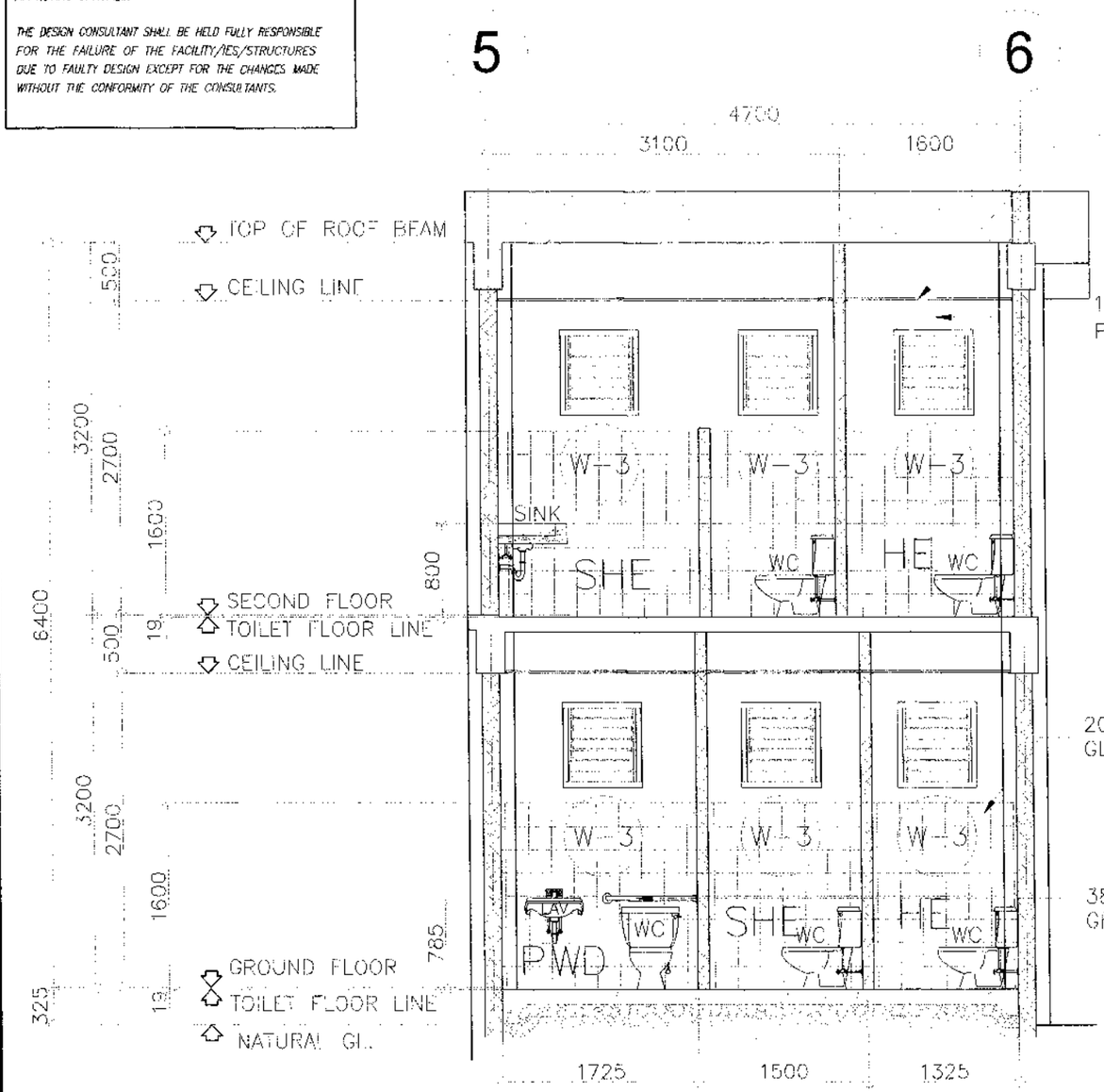


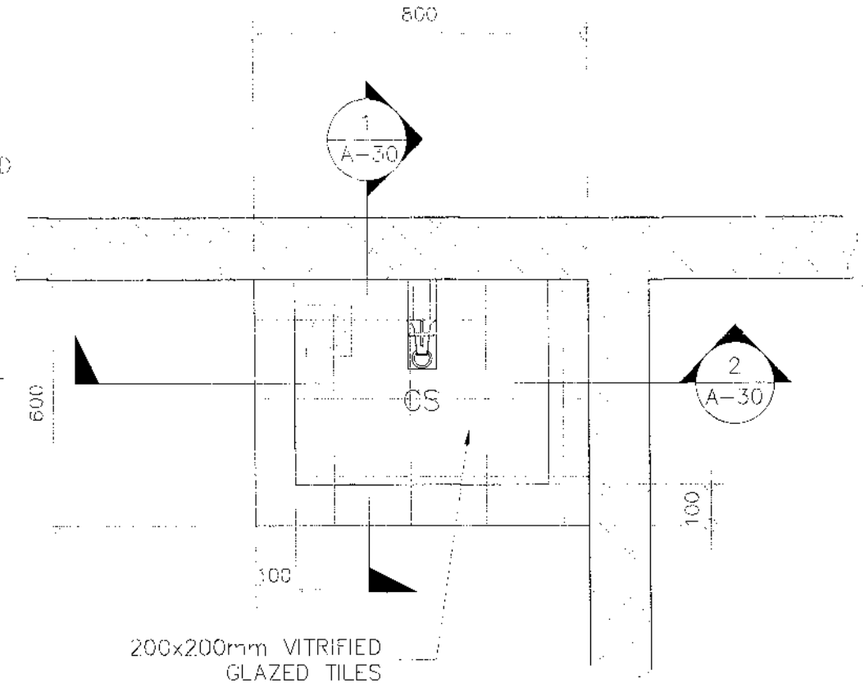
4.5mm THK. FIBER CEMENT CEILING BOARD (PAINTED) ON METAL FURRING CHANNEL @ 400mm C.C.

150mm THK. C-B WALL PLASTER (PAINT FINISH)

200x200mm VITRIFIED GLAZED WALL TILES

38mmø STAINLESS STEEL GRAB BAR

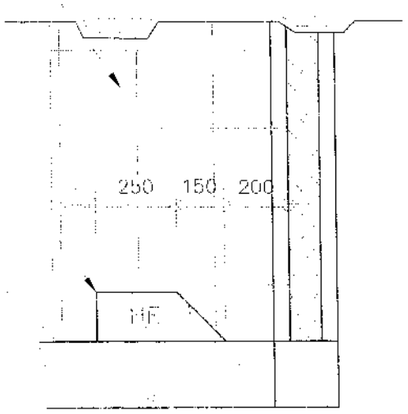
GROUND AND SECOND FLOOR
1 / A29 DETAIL SECTION OF TOILET
SCALE 1:50 METERS



2 / A29 DETAIL OF COUNTER SINK
SCALE 1:15 METERS

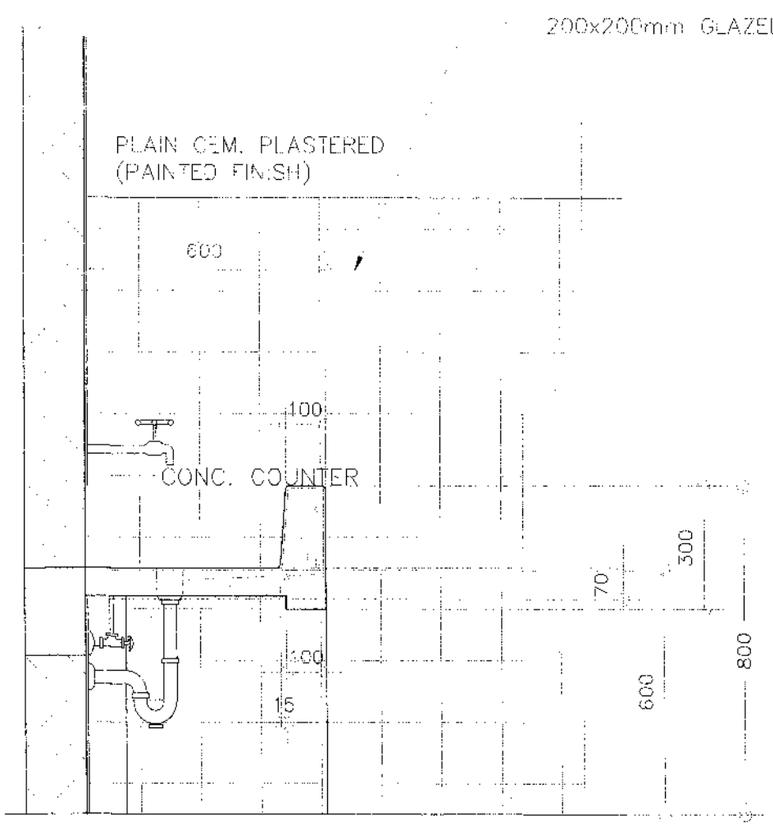
200 x 200mm VITRIFIED GLAZED WALL TILES

R.C. PEDESTAL
R.D. W/200x200mm UNGLAZED WALL TILES
FLOOR FINISH

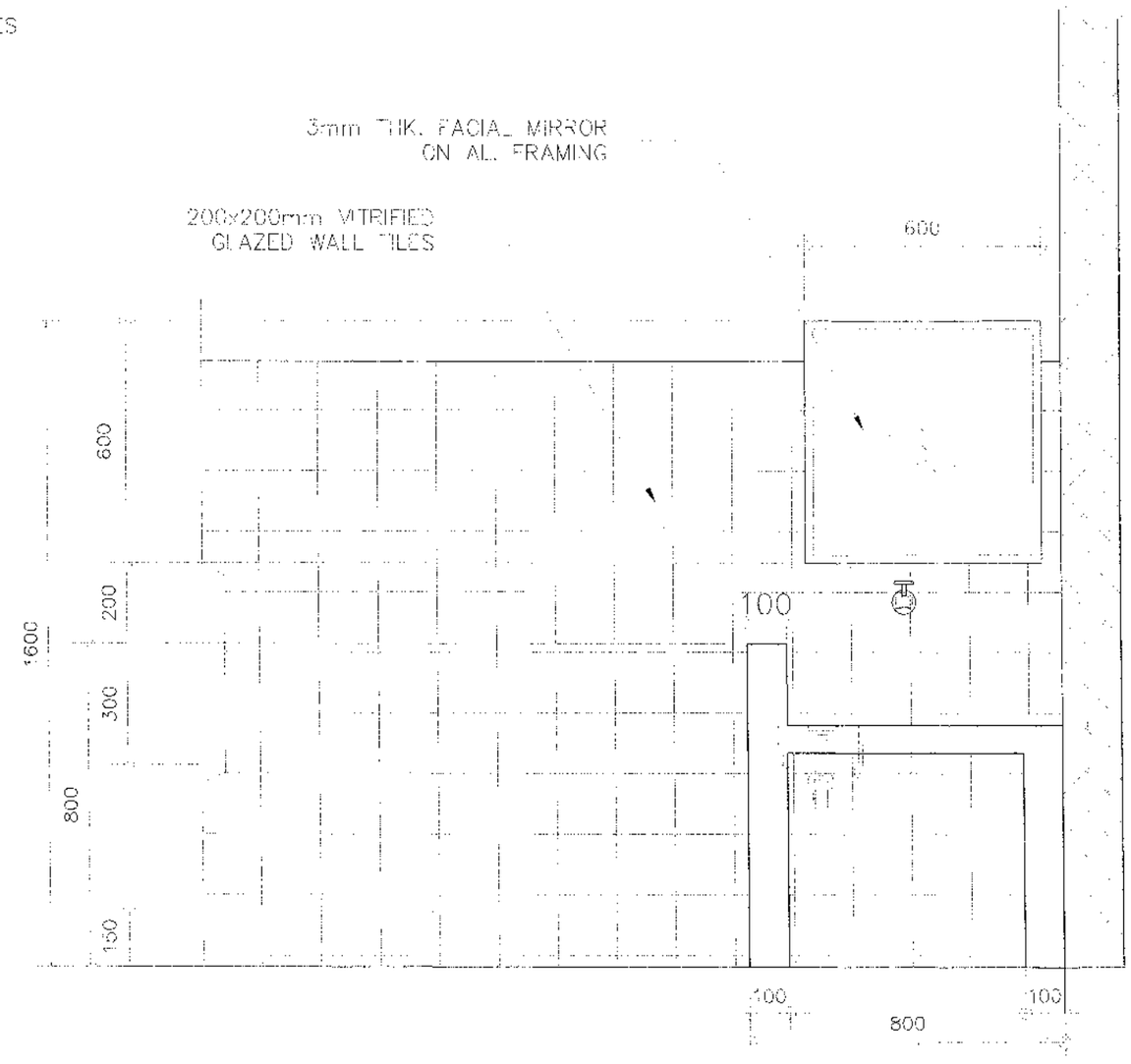


URINAL TROUGH
3 / A29 SECTION AND DETAIL
SCALE 1:15 METERS

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET CONTENTS: • AS SHOWN	PREPARED: DIXIE SARMIENTO-LOU C. SARMIENTO ARCHITECT II DATE: 04/24/25	REVIEWED: GRACE J. COMALING ENGINEER II ASST. CHIEF PLANNING AND DESIGN SECTION DATE: 04/24/25	SUBMITTED: BRIAN B. VILLANUEVA ENGINEER III 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: 04/24/25	SET NO: 29 A 40 SHEET NO: 29 98



COUNTER SINK
1/A30 DETAIL SECTION 2
SCALE 1:15 METERS



2/A30 DETAIL SECTION
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.

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT I — DATE: 3/24/25

REVIEWED: **GRACE N. COMALING** ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION — DATE: 03/28/25

SUBMITTED: **BRIAN DAVID LANUEVA** ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION — DATE: 03/28/25

RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER — DATE: 03/29/25

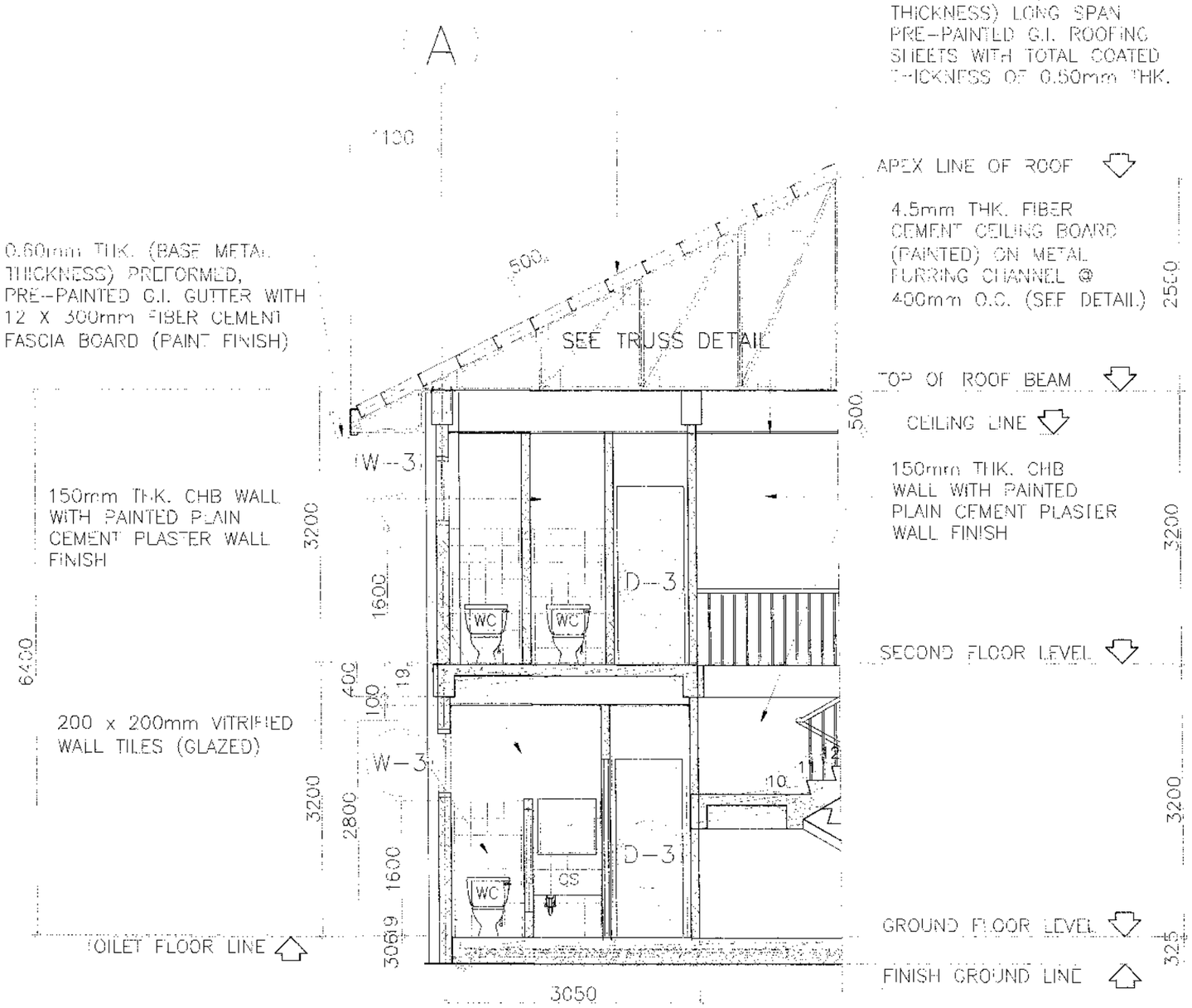
APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER — DATE: 03/29/25

SET NO: 30 A 40
SHEET NO.: 30 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 7160, 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.



ALONG TOILETS
BAY SECTION

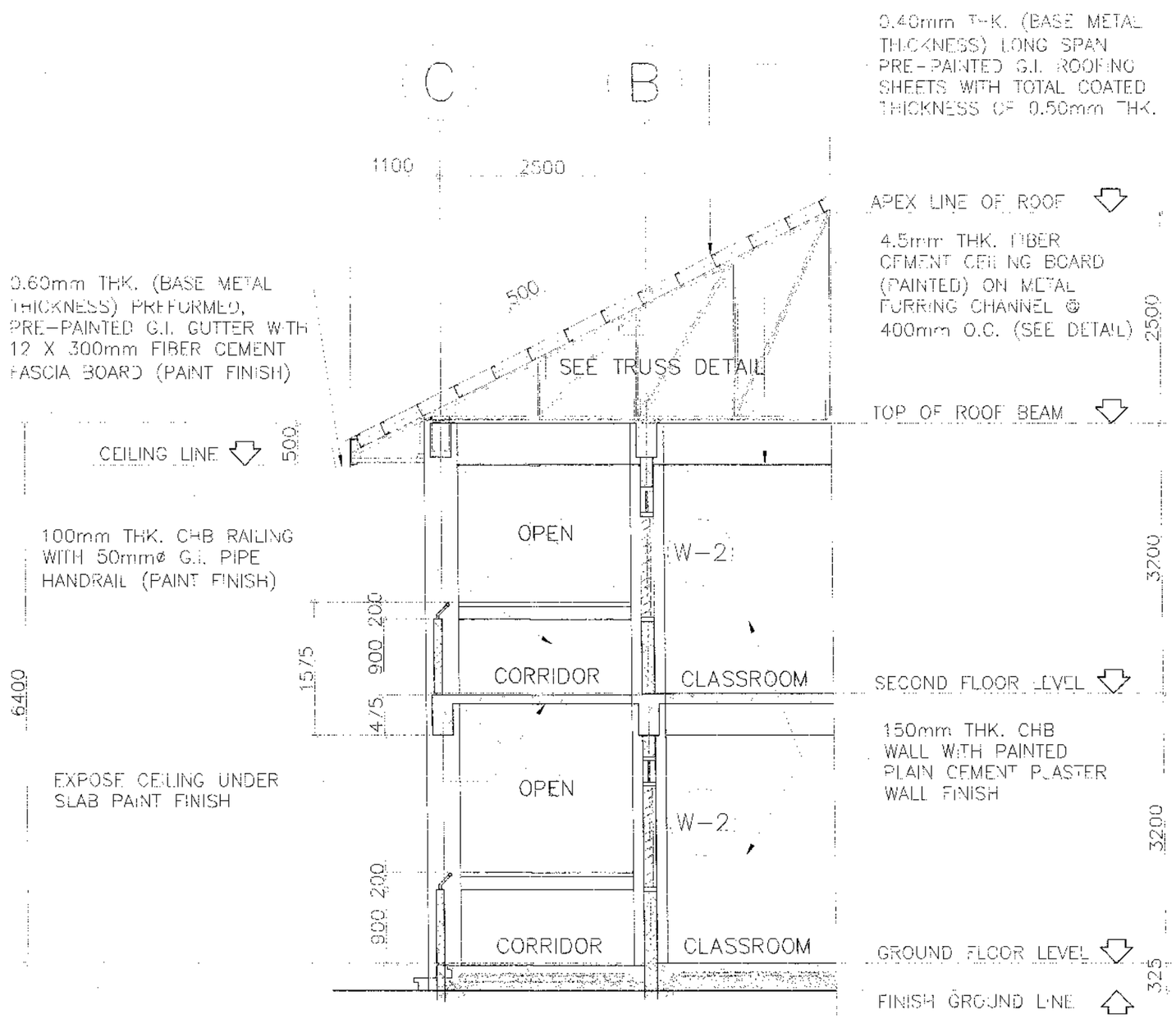
1/A31 SCALE 1:60 METERS

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ENGINEER II DATE: 07/24/25	REVIEWED: **GRACE Y. COMALING** ENGINEER II ASST. CHIEF, PLANNING & DESIGN SECTION DATE: 07/25/25	SUBMITTED: **BRIAN B. VILLANUEVA** ENGINEER III CHIEF, PLANNING & DESIGN SECTION DATE: 07/28/25	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE: 07/29/25	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 07/29/25	SET NO. 31 A 40	SHEET NO. 31 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 / A32 ALONG CORRIDOR
BAY SECTION
SCALE 1:50 METERS

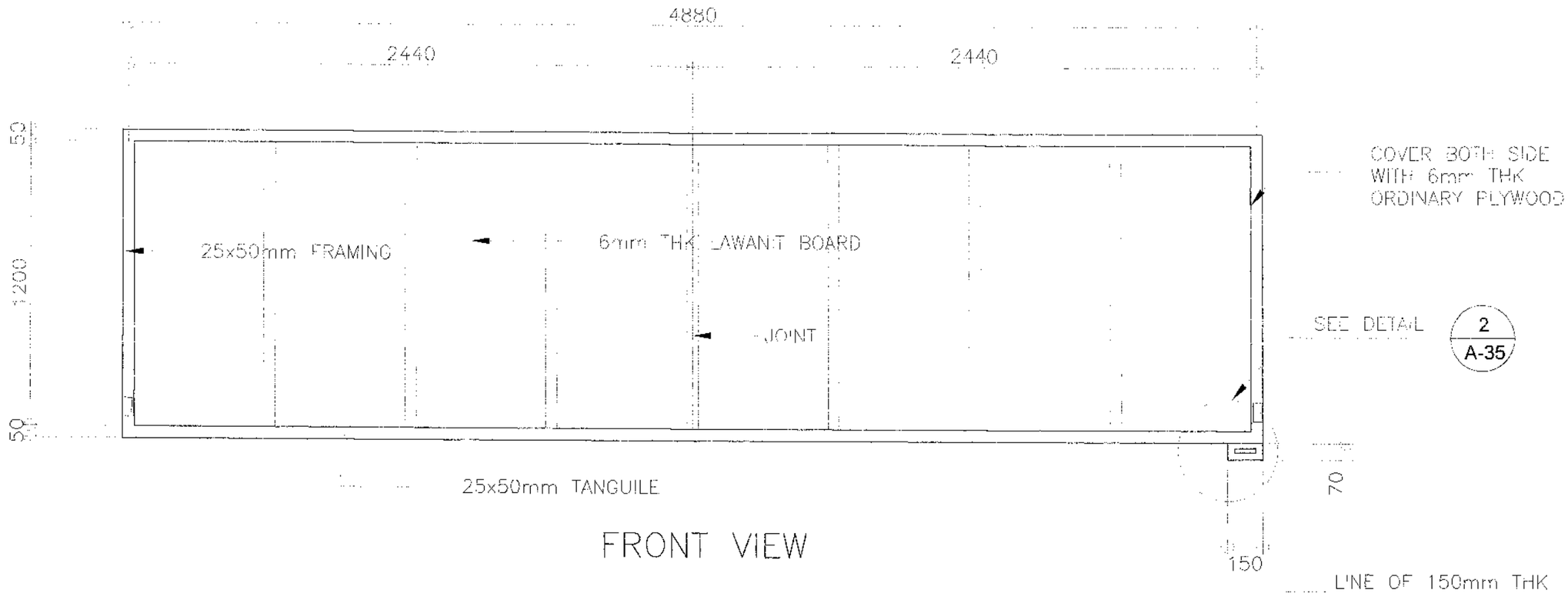
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

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

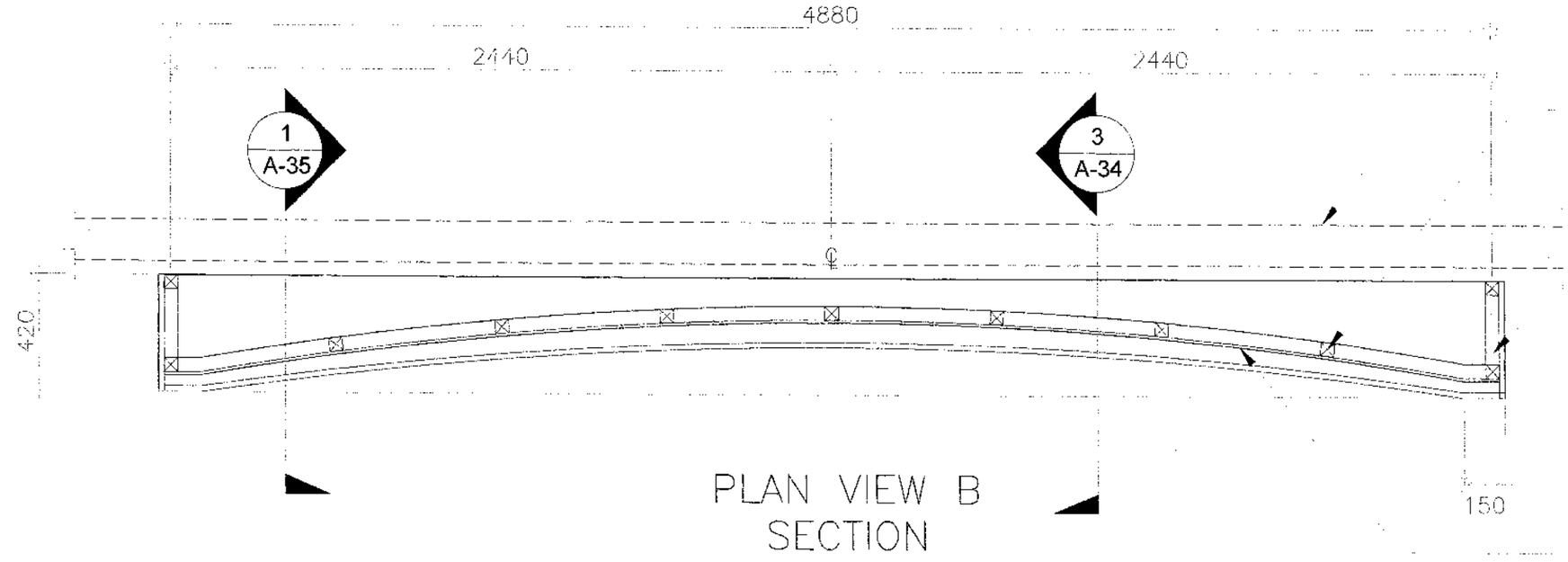
SHEET CONTENTS: • AS SHOWN

PREPARED	REVIEWED	SUBMITTED	RECOMMENDED	APPROVED
DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II	GRACE V. COMALING, ENGINEER I, ASST. CHIEF PLANNING AND DESIGN SECTION	EMMANUEL VILLANUEVA, ENGINEER III, CHIEF PLANNING AND DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE 04.29.15	DATE 04.29.15	DATE 04.29.15	DATE 04.29.15	DATE 04.29.15

SET NO. 32 A 40 | SHEET NO. 32 98



FRONT VIEW



PLAN VIEW B
SECTION

1 A33 BLACKBOARD DETAIL

SCALE 1:20 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: DIXIE HANNAH LOUIE SARMIENTO, ARCHITECT II, DATE: 07/29/15

REVIEWED: GRACE V. SOMALING, ENGINEER III, ASST. CHIEF, ARCHITECTURAL DESIGN SECTION, DATE: 07/29/15

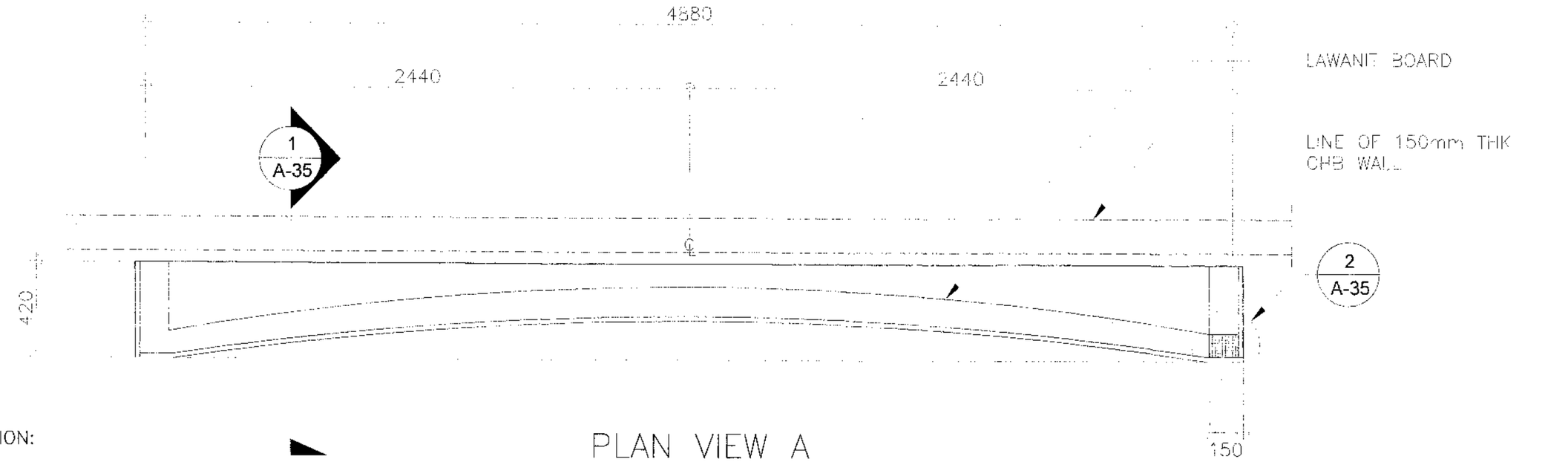
SUBMITTED: BRIAN P. VILLAQUEVA, ENGINEER III, CHIEF, ENGINEERING AND DESIGN SECTION, DATE: 07/29/15

RECOMMENDED: MARIA V. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 07/29/15

APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE: 07/29/15

SET NO: 33 A40

SHEET NO: 33 98



PLAN VIEW A

1 A34 **BLACKBOARD DETAIL**
SCALE 1:20 METERS

SPECIFICATION:

MATERIALS: –25 x 300mm SOLID TANGUILE OR EQUIVALENT WOOD FRAMES.

–6mm THK. PLYWOOD

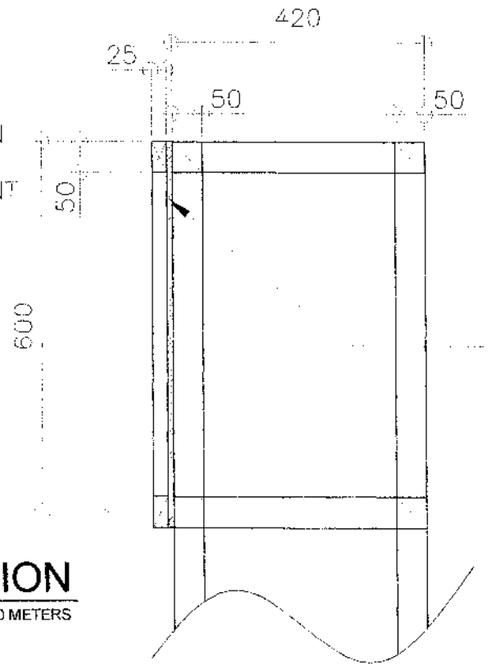
–6mm THK. LAWANIT BOARD

PROVIDE: –70 x 120 x 150mm CHALKDUST BOX

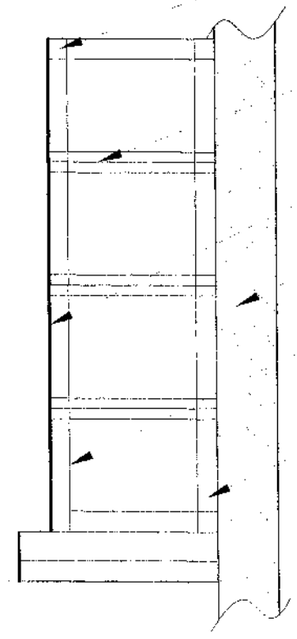
–2ø x 10 x 10mm MESHWIRE

FINISH: –FRAMING AND CHALKBOX PAINT WITH QUICK DRYING ENAMEL PAINT (BROWN

–BOARD PAINT WITH BLACKBOARD PAINT (GREEN) OR BLACKBOARD SLATE

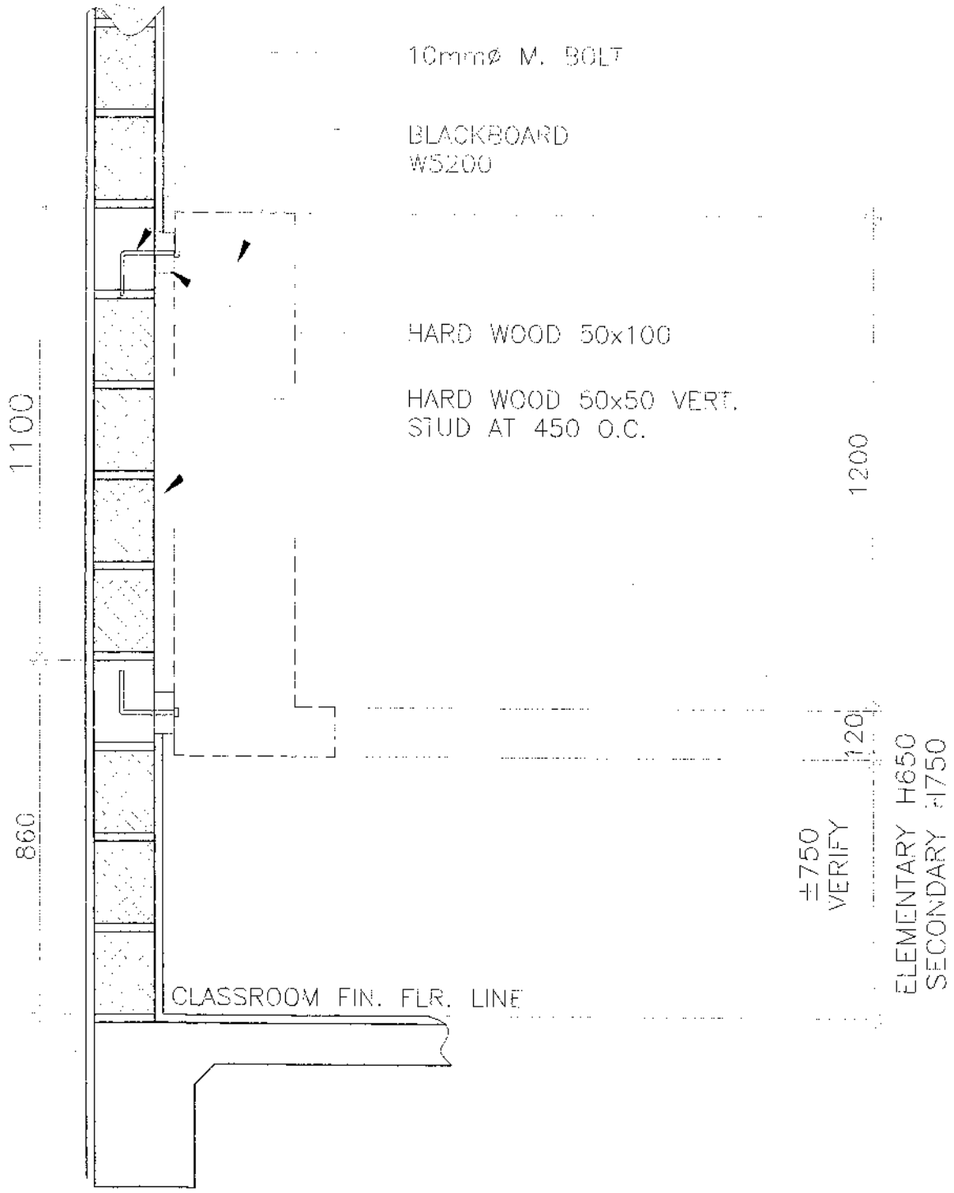


2 A34 (EDGE FRAMING) **SPOT DETAIL SECTION**
SCALE 1:10 METERS



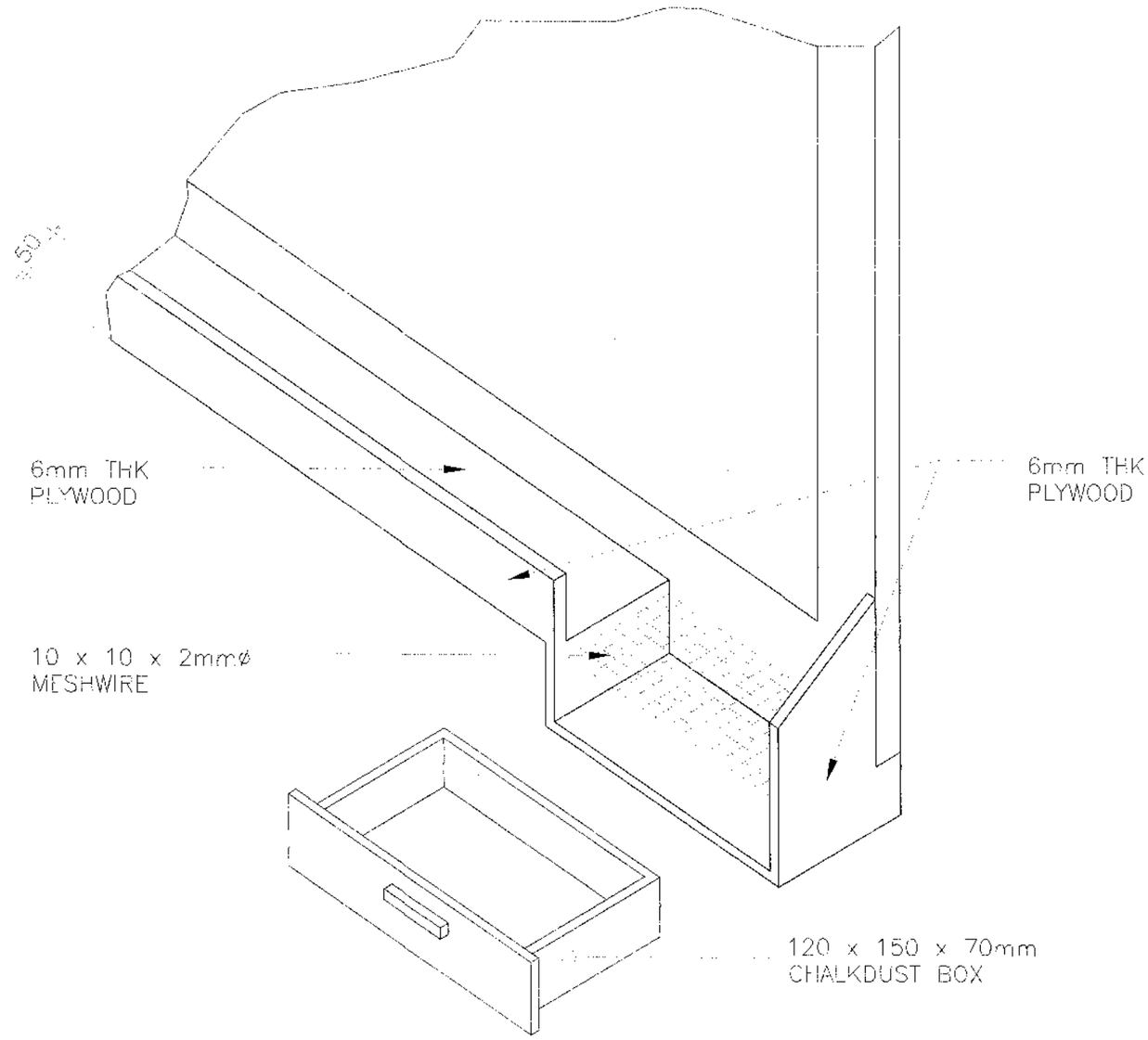
3 A34 **SECTION**
SCALE 1:15 METERS

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET CONTENTS • AS SHOWN	PREPARED: DIXIE HANNAH LOU C. SARMIENTO ARCHITECT II DATE 07/24/25	REVIEWED: GRACE V. COMALING ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE 07/25/25	SUBMITTED: BRIAN D. VILLANUEVA ENGINEER II CHIEF, PLANNING AND DESIGN SECTION DATE 07/25/25	RECOMMENDED: MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE 07/29/25	APPROVED: PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE 07/29/25	SHT NO 34 A40	SHEET NO 34 98



1 A35 CONNECTION SECTION DETAIL

SCALE 1:15 METERS



2 A35 CHALK DUST BOX DETAIL

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: DIXIE HANNAH LOUC. SARMIENTO, ARCHITECT I, DATE: 04-29-25

REVIEWED: GRACE T. COMALING, ENGINEER II, ASST. CHIEF, PLANNING, DESIGN & CONSTRUCTION SECTION, DATE: 04-29-25

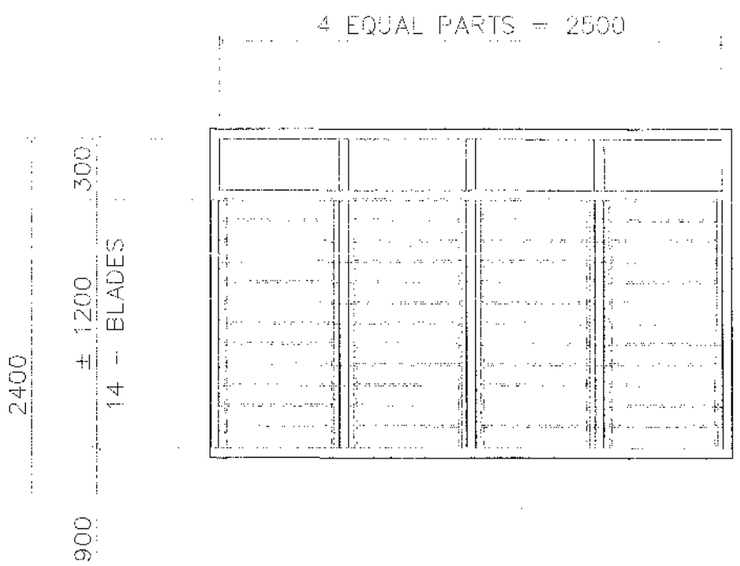
SUBMITTED: BRIAN P. [illegible], ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION, DATE: 04-29-25

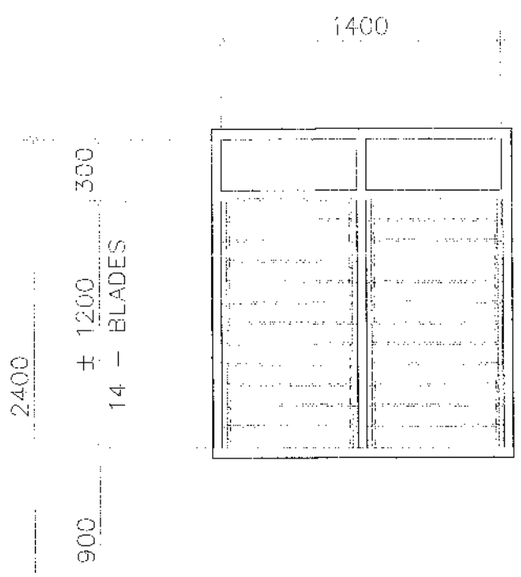
RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 04-29-25

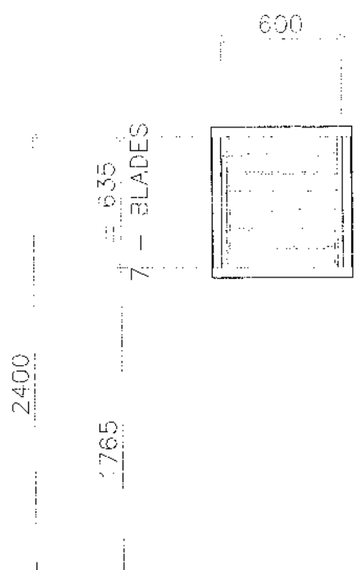
APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE: 04-29-25

SET NO: 35 / A 40

SHEET NO: 35 / 98







W–1 CLASSROOM

5mm. THICK JALOUSIE WINDOWS WITH CLEAR GLASS BLADES ON STANDARD JALOUPLUS CASING AND FIXED CLEAR GLASS TRANSOM ON 50 x 150 MAHOGANY JAMB COMPLETE WITH HARDWARE AND ACCESSORIES

8–SETS

W–2 CLASSROOM

5mm. THICK JALOUSIE WINDOWS WITH CLEAR GLASS BLADES ON STANDARD JALOUPLUS CASING AND FIXED CLEAR GLASS TRANSOM ON 50 x 150 MAHOGANY JAMB COMPLETE WITH HARDWARE AND ACCESSORIES

8–SETS

W–3 TOILET

5mm. THICK JALOUSIE WINDOWS WITH CLEAR GLASS BLADES ON STANDARD JALOUPLUS CASING ON 50 x 150 MAHOGANY JAMB COMPLETE WITH HARDWARE AND ACCESSORIES

6–SETS

1/A36 SCHEDULE OF DOORS AND WINDOWS

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:
DIXIE HANNAH LOU C. SERMIENTO
ARCHITECT II
DATE: 04/24/25

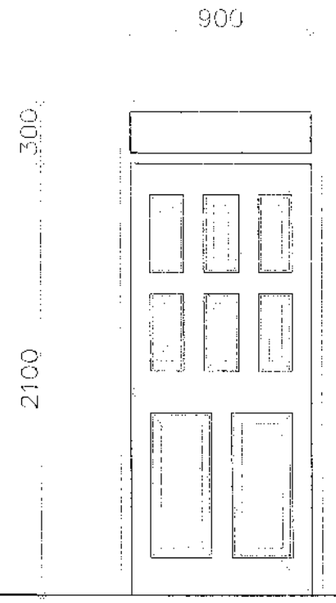
REVIEWED:
GRACE M. COMALING
ENGINEER II
ASST. CHIEF PLANNING AND DESIGN SECTION
DATE: 04/25/25

SUBMITTED:
BRIAN B. DELA CRUZ, CE
ENGINEER II
CHIEF, PLANNING AND DESIGN SECTION
DATE: 04/28/25

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

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

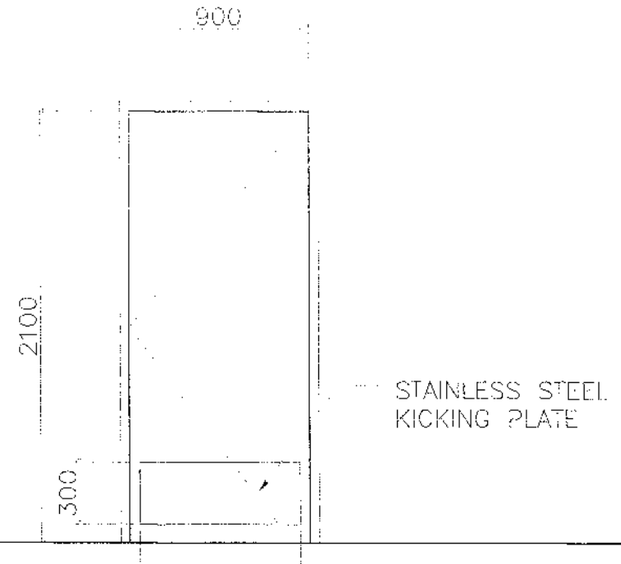
SET NO: 36 / A 40
SHEET NO: 36 / 98



D-1 CLASSROOM

MAHOGANY PANEL DOOR ON 50 x 150mm THK. MAHOGANY JAMB WITH FIXED CLEAR GLASS TRANSOM COMPLETE WITH HARDWARE AND ACCESSORIES CYLINDER TYPE LOCKSET

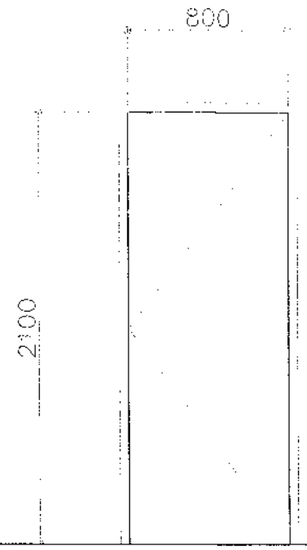
8-SETS



D-2 TOILET (DISABLED)

HOLLOW CORE FLUSH TYPE SWING DOOR ON 50x150mm MAHOGANY JAMB w/MARINE PLYWOOD FACING INSIDE AND ORDINARY OUTSIDE COMPLETE W/ HARDWARE AND ACCESSORIES PROVIDE KICK PLATE

1-SET



D-3 TOILET

HOLLOW CORE FLUSH TYPE SWING DOOR ON 50x50mm MAHOGANY JAMB W/ MARINE PLYWOOD FACNG INSIDE AND ORDINARY OUTSIDE COMPLETE W/ HARDWARE AND ACCESSORIES

6-SETS

1/A37 SCHEDULE OF DOORS AND WINDOWS

SCALE 1:30 METERS

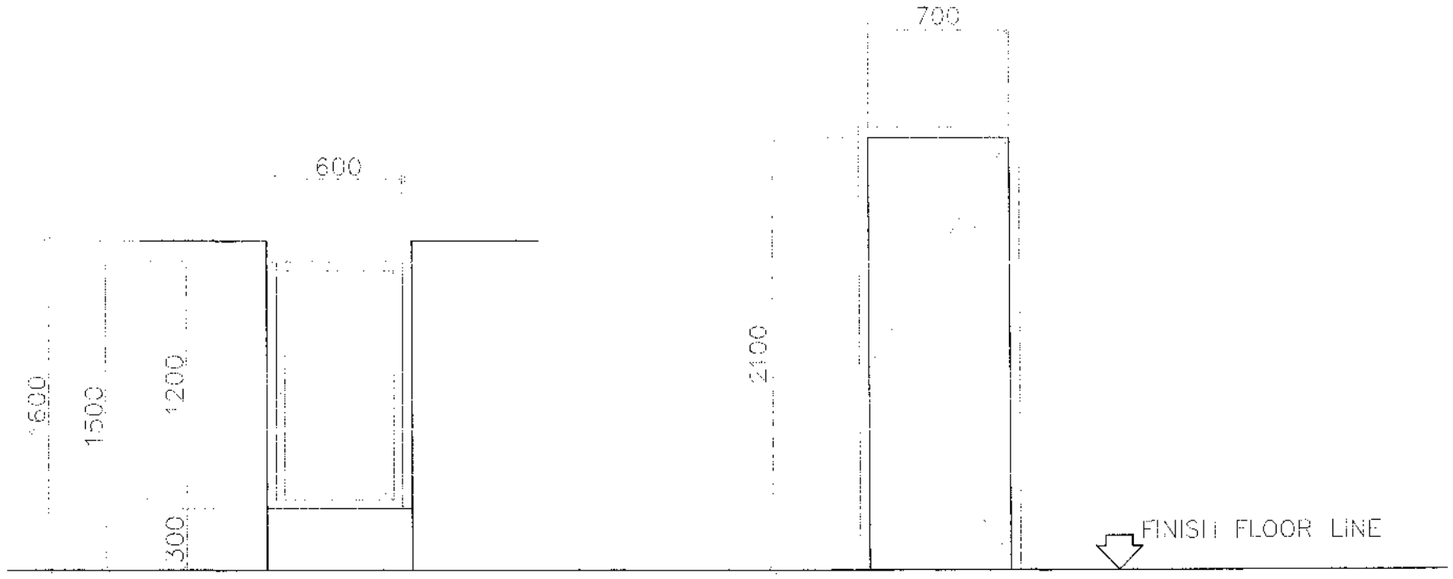
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**

SHEET CONTENTS: • AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOU C. SARMIENTO ARCH. TECH DATE 07/24/25	GRACE Y. LOMALING ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE 07/25/25	BRIAN R. VILLANUEVA ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE 07/28/25	MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE 07/29/25	PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE 07/29/25

SET NO: 37 A 40
SHEET NO: 37 98



D-4 TOILET (CUBICLE)

HOLLOW CORE FLUSH TYPE SWING DOOR ON 50X100 MAHOGANY DOOR JAMB COMPLETE WITH HARDWARE ACCESSORIES

8-SETS

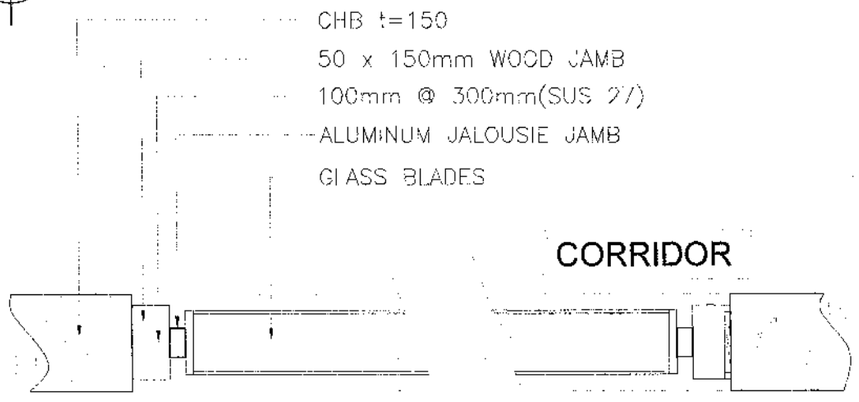
D-5 STORAGE

HOLLOW CORE FLUSH TYPE SWING DOOR WITH MARINE PLYWOOD FACING

5-SETS

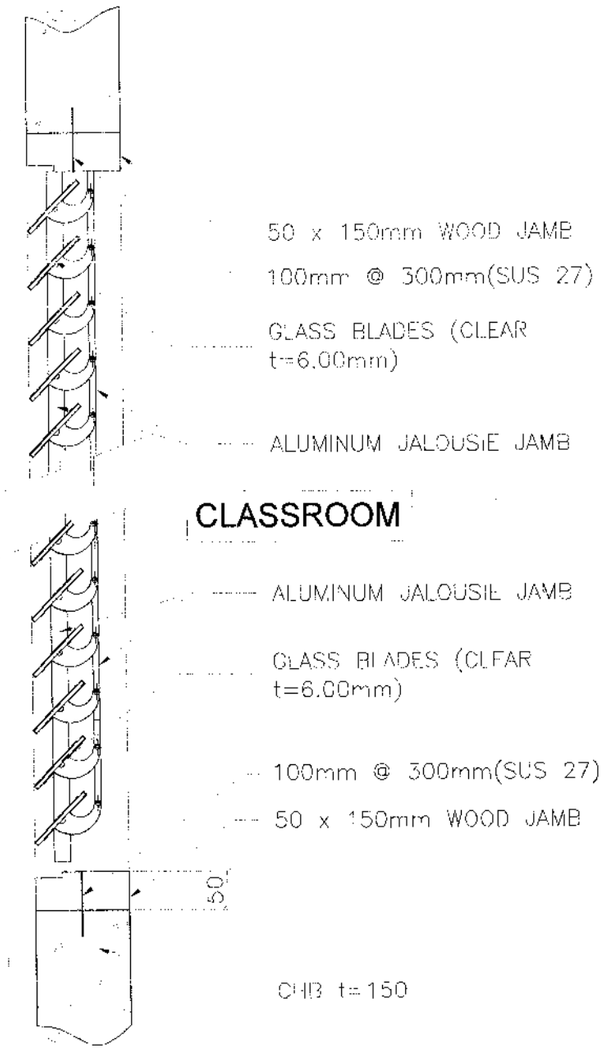
1 A38 SCHEDULE OF DOORS AND WINDOWS

SCALE 1:30 METERS



2 A38 GLASS JALOUSIE TYPICAL DETAIL PLAN

SCALE 1:8 METERS



3 A38 GLASS JALOUSIE TYPICAL DETAIL SECTION

SCALE 1:8 METERS

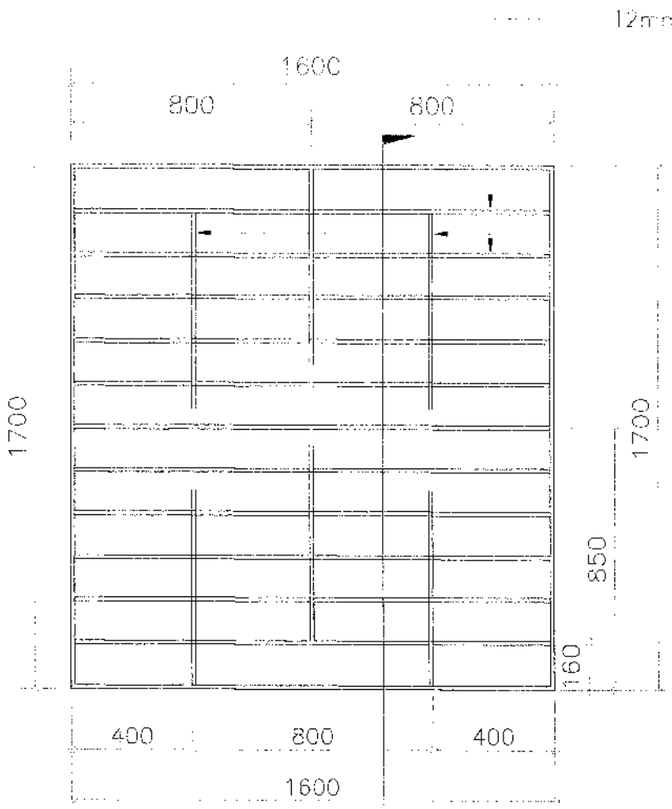
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

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

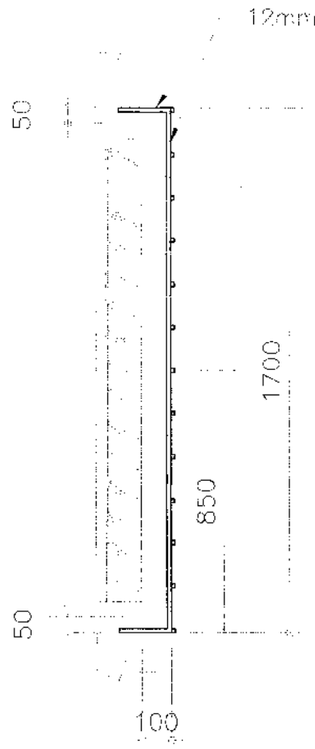
SHEET CONTENTS: • AS SHOWN

PREPARED	REVIEWED	SUBMITTED	RECOMMENDED	APPROVED
DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II	GRACE Y. COMALING, ENGINEER III, ASST. CHIEF, PLANNING AND DESIGN SECTION	BRIAN E. DELA CRUZ, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE: 04/24/15	DATE: 04/25/15	DATE: 04/29/15	DATE: 04/29/15	DATE: 04/29/15

SET NO: A 40 | SHEET NO: 38 / 98



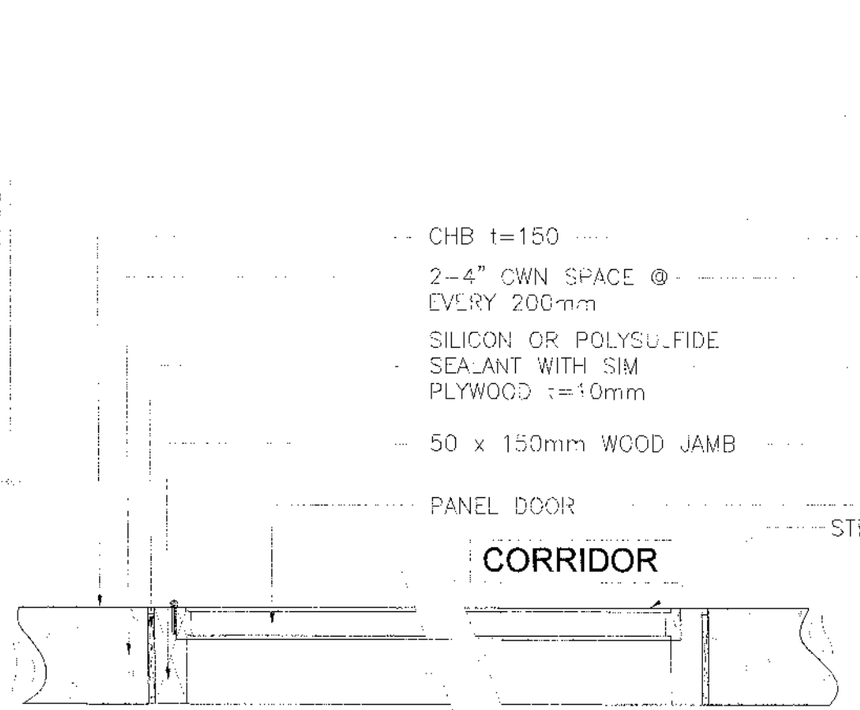
ELEVATION A



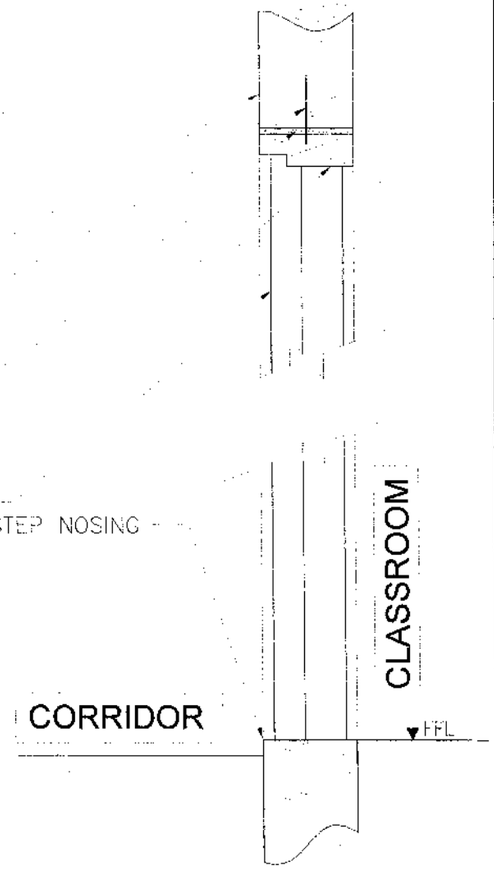
SECTION-A

1 / A39 TYPICAL OF WINDOW GRILL FOR W-2

SCALE 1:20 METERS



DETAIL PLAN



DETAIL SECTION

2 / A39 TYPICAL OF DETAIL OF DOOR FRAME

SCALE 1:8 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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: DIXIE HANNAH LOUIE SARMIENTO, ARCHITECT IV, DATE 01/24/25

REVIEWED: GRACE N. COMALING, ENGINEER I, ASST. CHIEF, PLANNING, DESIGN AND CONSTRUCTION SECTION, DATE 01/25/25

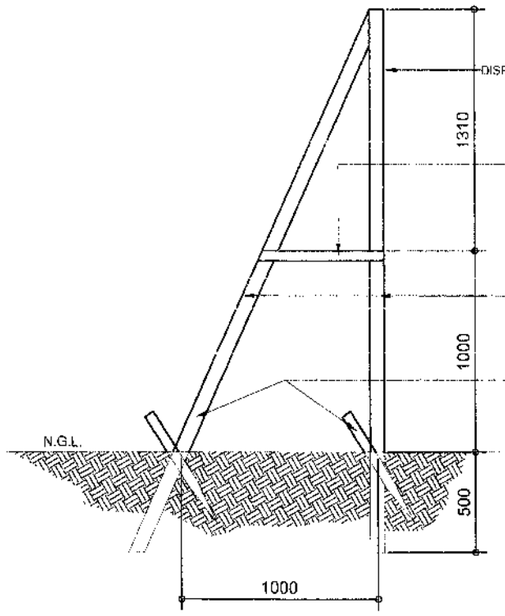
SUBMITTED: [illegible], ENGINEER II, CHIEF PLANNING AND DESIGN SECTION, DATE 01/28/25

RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE 01/29/25

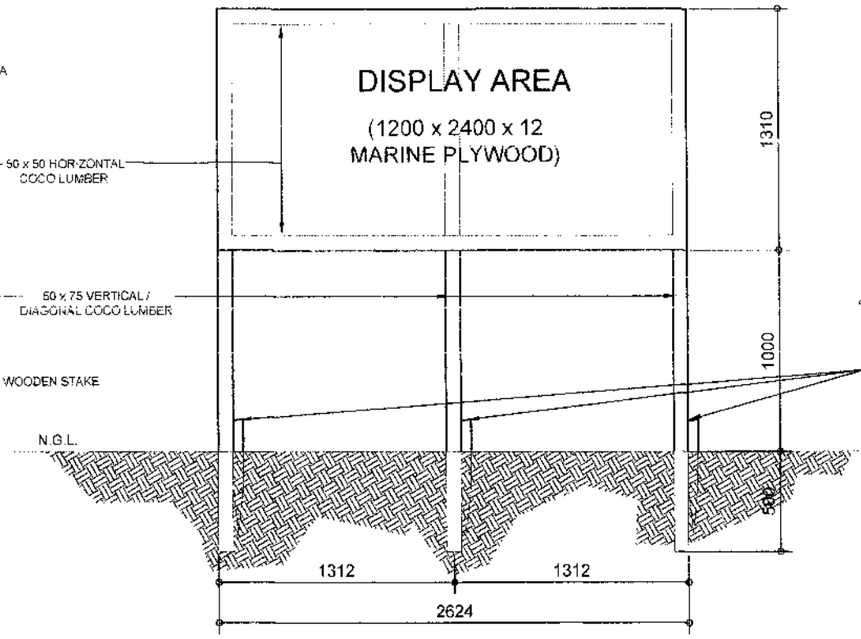
APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE 01/29/25

SET NO. 39 / A 40

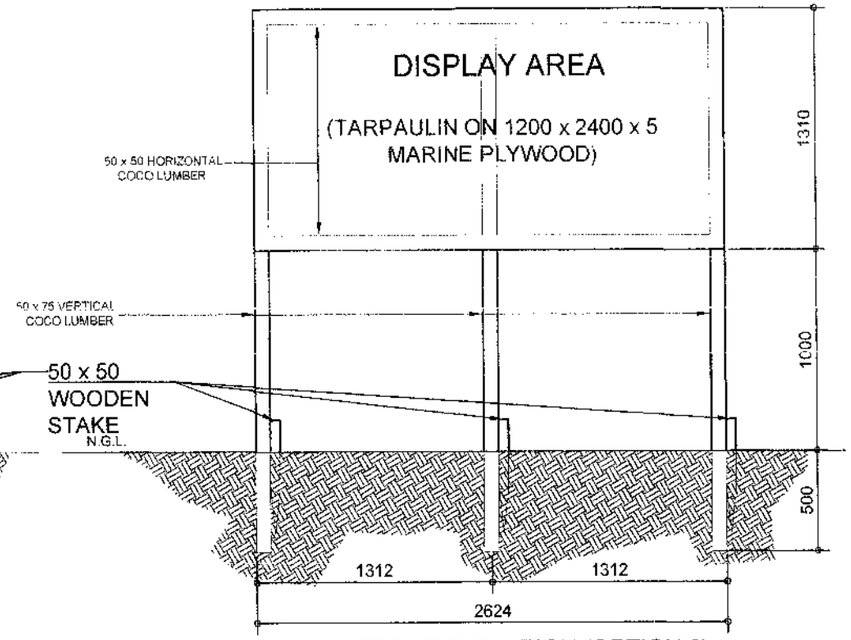
SHEET NO. 39 / 98



TYPICAL FRAME ELEVATION



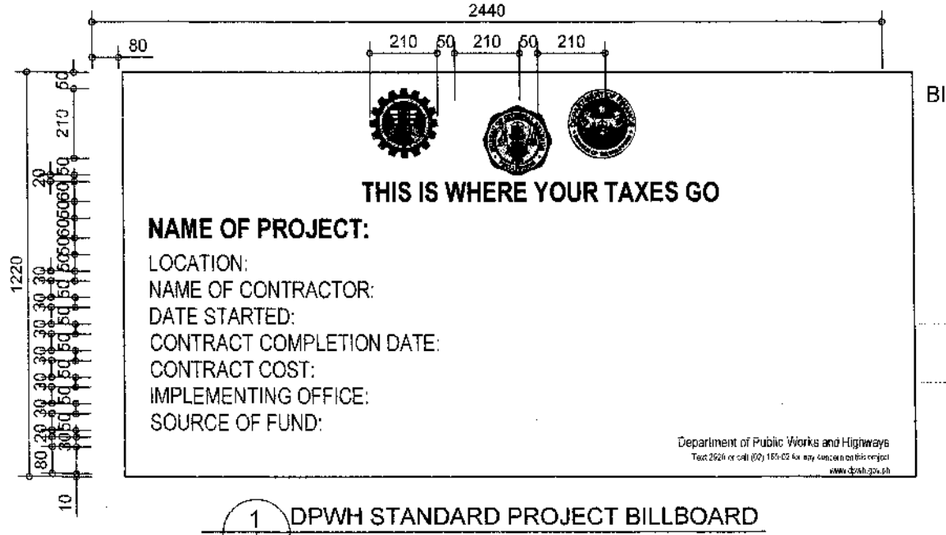
FRONT ELEVATION (OPTION 1)



FRONT ELEVATION (OPTION 2)

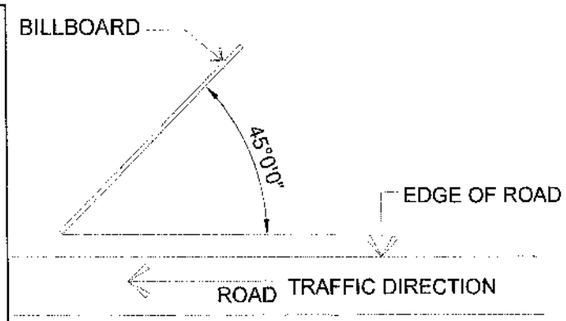
DETAIL OF BILLBOARD FRAME

NOT TO SCALE



1 / A40 DPWH STANDARD PROJECT BILLBOARD

NOT TO SCALE



ORIENTATION

NOT TO SCALE

N O T E : GUIDELINES IN THE PREPARATION AND INSTALLATION OF PROJECT BILLBOARD (*PER D.O. 141 S. 2016*)

1. The new billboard design layout and dimension (see attached drawing) shall be installed on a standard billboard measuring 1200 mm x 2400 mm (4ft. x 8ft) using 12 mm (1/2 inch) thick marine plywood or tarpaulin posted on 5 mm (3/16 inch) marine plywood.

2. For each building project, the billboard shall be installed in front of the project site.

3. Name(s) and/or picture(s) of any personages should not appear in the billboard.

4. No political billboard shall be allowed to be installed 100 meters before and 100 meters after all DPWH projects and in between the project limits or within the road right-of-way.

5. DPWH contractors shall not be allowed to place names of politicians on their equipment or carry political billboard on their equipment.

REPUBLIC OF THE PHILIPPINES
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REGIONAL OFFICE IX
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PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:
DIXIE KARINA LOU C. SARMIENTO
ARCHITECT II
DATE: 04/29/26

REVIEWED:
GRACE N. CONALING
ENGINEER II
ASST. CHIEF, PLANNING AND DESIGN SECTION
DATE: 04/29/26

SUBMITTED:
ERNIE C. CHERUBIN
ENGINEER III
CHIEF, PLANNING AND DESIGN SECTION
DATE: 04/29/26

RECOMMENDED:
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 04/29/26

APPROVED:
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 04/29/26

SET NO: 40 A 40
SHEET NO: 40 98

GENERAL NOTES:

1.0 STANDARDS AND REFERENCES

THE FOLLOWING SHALL GOVERN THE DESIGN, FABRICATION AND CONSTRUCTION OF THE PROJECT.

1.1 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (N.S.C.P.). VOL. 1, 6TH EDITION, 2010.

2.0 DESIGN CRITERIA

2.1 LOADINGS

A. DEAD LOAD

CONCRETE	$-23.56 kN/m^3$
STEEL	$-76.93 kN/m^3$
150mm THK. CHB WALL	−2.73 kPa
100mm THK. CHB WALL	−2.11 kPa

B. LIVE ROAD

ROOF	−1.00 kPa
CLASSROOMS	−1.90 kPa
TOILETS	−2.40 kPa
CORRIDORS ABOVE, STAIRS	−3.80 kPa
CORRIDORS ON GROUND	−4.80 kPa

C. WIND LOAD (NSCP 2010)

BASIC WIND VELOCITY, V = 250 KPH

P = qh [(GCpf)−(GCpi)] (DESIGN WIND PRESSURE)

WHERE: qh = VELOCITY PRESSURE (kPa)
GCpf = EXTERNAL PRESSURE COEFFICIENT
GCpi = INTERNAL PRESSURE COEFFICIENT

D. SEISMIC LOAD (NSCP 2010)

$$V = \frac{Cvl}{RT} W \qquad \text{(DESIGN BASE SHEAR)}$$

$$Vmax = \frac{2.50\ Cal}{R} W \qquad Vmin = 0.11\ Cal\ W$$

$$Vmin = \frac{0.80\ ZNvl}{R} W \text{ (ZONE 4)}$$

WHERE: W = TOTAL DEAD LOAD
T = NATURAL PERIOD = $C_t (h_n)^{2/3}$;
WHERE: C = NUMERICAL COEFFICIENT
h = BUILDING HEIGHT
I = IMPORTANCE FACTOR = 1.50
R = NUMERICAL FACTOR = 8.50
SEISMIC COEFFICIENT Cv = 0.44Nv
Ca = 0.64Na
NEAR SOURCE FACTOR (10km) Nv = 1.2
Na = 1.0
Z = SEISMIC ZONE = 0.40 (ZONE 4)
S = SOIL TYPE = D

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

2.2 DESIGN STRESSES

A. CONCRETE	
COMPRESSIVE STRENGTH @ 28 DAYS	$f'c$ = 20.7 MPa (3,000 psi)
B. REINFORCING BARS	
a. FOR BARS 16mmø AND GREATER	fy = 275 MPa (40,000 psi)
b. FOR BARS LESS THAN 16mmø	fy = 230 MPa (33,000 psi)
C. STRUCTURAL STEEL, ASTM−A36	
FOR TRUSSES, BRACINGS, & STRUTS	fy = 248 MPa (36,000 psi)
D. PURLINS	
COLD FORMED LIGHT GAGE SHAPES	fy = 248 MPa (36,000 psi)
E. MASONRY UNIT (CHB)	
NON−LOAD BEARING CHB WALLS	fm' = 3.45 MPa (500 psi)
F. WELDS−USED E−60xx ELECTRODE	
G. STRUCTURAL BOLTS, ASTM−A307	
a. Ft = 96.60 MPa (14,000 psi)	b. Fv = 69 MPa (10,000 psi)

3.0 FOUNDATION

3.1 ASSUMED SOIL BEARING CAPACITY SHALL BE 96 KPa (2,000 PSF)

3.1.1 IN CASE THE ACTUAL LOCATION OF THE STRUCTURE IS LESS THAN THE ASSUMED DISTANCE FROM THE SEISMIC SOURCE OF 40km; NOTIFY THE DIRECTOR, BUREAU OF DESIGN FOR PROPER REVISION OF THE DESIGN. REFER TO THE SEISMIC SOURCE MAP PROVIDED IN THE NATIONAL STRUCTURAL CODE OF THE PHILIPPINES OR PHIVOLCS SEISMIC SOURCE MAP.

3.1.2 SOIL TEST SHALL BE CONDUCTED PRIOR TO START OF CONSTRUCTION.

3.1.3 IN CASE THE ACTUAL SOIL BEARING CAPACITY IS FOUND LESS THAN THE ASSUMED, 96 KPa, NOTIFY THE DIRECTOR, BUREAU OF DESIGN FOR PROPER REVISION OF FOUNDATION.

3.1.4 NO FOOTING SHALL REST ON FILL.

3.1.5 BOTTOM OF FOOTING SHALL BE AT LEAST 1.00m. BELOW NATURAL GRADE LINE.

3.1.6 SOIL BEARING CAPACITY SHALL BE INCREASED BY 33% WHEN IN COMBINATION WITH SEISMIC OR WIND LOAD.

3.2 ALL COLUMN FOOTINGS & TIE BEAMS SHALL REST ON 100mm THK. WELL COMPACTED GRAVEL BASE COURSE.

3.3 BACK FILL SHALL BE PLACED IN LAYER AND EACH LAYER SHALL BE 200mm THK. AND SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY.

3.4 WHERE LOOSE/SOFT MATERIAL IS ENCOUNTERED AT DEPTH OF EMBEDMENT INDICATED, EXCAVATE TO FIRM LAYER AND REPLACE LOOSE/MATERIALS UNDERNEATH THE FOOTING WITHIN THE FOOTING AREA PLUS 1/2 DEPTH OF SOFT MATERIAL ON ALL SIDES WITH SELECT GRANULAR BACKFILL. COMPACT SELECT GRANULAR BACKFILL TO 95% OF MAXIMUM DRY DENSITY.

4.0 MATERIALS

4.1 CONCRETE

4.1.1 CONCRETE COVER OVER REINFORCING BARS SHALL BE AS FOLLOWS:

A. FOOTINGS, FOOTING−TIE BEAMS (CAST AGAINST EARTH)	75mm
B. BEAMS AND COLUMNS (TO STIRRUPS AND TIES)	40mm
C. WALLS, SIDE OF FOOTING−TIE BEAMS (CAST AGAINST FORMS)	40mm
D. SUSPENDED SLAB	20mm

4.1.2 BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, ETC. RELATING TO THE WORK.

4.2 REINFORCING BARS

4.2.1 ALL REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS THAT WILL IMPAIR BOND.

4.2.2 ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT.

4.2.3 LAPPED SPLICES SHALL BE STAGGERED WHERE POSSIBLE.

4.2.4 UNLESS OTHERWISE INDICATED, SPLICING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI−318M, EXCEPT THAT THE MINIMUM LAP SPLICE SHALL BE 40 BAR DIAMETER BUT NOT LESS THAN 600mm.

4.2.5 UNLESS SHOWN OTHERWISE ON PLANS, SPLICES SHALL BE AS FOLLOWS:

A. INTERMEDIATE BEAMS: TOP BARS SHALL BE SPLICED AT MID−SPAN, AND BOTTOM BARS AT THE SUPPORT.

B. BEAMS FRAMING TO COLUMNS: TOP BARS SHALL BE SPLICED AT MID−SPAN AND BOTTOM BARS SHALL NOT BE SPLICED W/IN THE COLUMN OR W/IN A DISTANCE OF TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. THE SPLICED LENGTH SHALL NOT BE LESS THAN 1.4 TIMES THE DEVELOPMENT LENGTH (Ld) IN 4.2.8 BELOW BUT NOT LESS THAN 600mm.

1 / S1 **GENERAL NOTES AND STANDARD DETAILS**

SCALE NOT TO SCALE

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**

SHEET CONTENTS: • AS SHOWN

PREPARED: **CARMELITO A. PEÑALES JR.** ENGINEER — DATE: 07/28/25

REVIEWED: **GRACE Y. COMALING** ASST. CHIEF PLANNING & DESIGN SECTION — DATE: 07/28/25

COMPUTED: **BRIAN R. VILLANUEVA** ENGINEER III, CHIEF, PLANNING & DESIGN SECTION — DATE: 07/28/25

RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER — DATE: 7/29/25

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

SET NO: 01 S37 | SHEET NO: 41 98

C. COLUMNS: LAP SPLICES SHALL BE MADE WITHIN THE CENTER HALF OF HEIGHT AND THE SPLICE SHALL NOT BE LESS THAN 30 BAR DIAMETER. WELDING OR THE USE OF APPROVED MECHANICAL DEVICES MAY BE PERMITTED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR SPLICED AT ANY LEVEL AND THE MINIMUM VERTICAL DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 600mm.

D. CHB WALLS: VERTICAL BARS SHALL BE SPLICED AT THE TOP OF WALL FOOTINGS OR FOOTING-TIE BEAMS AND AT THE BOTTOM OF REINFORCED CONCRETE LINTEL BEAMS OR BEAMS.

4.2.6 UNLESS OTHERWISE INDICATED: ALL BEAMS TERMINATING AT A COLUMN SHALL HAVE TOP AND BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN, TERMINATING IN A STANDARD 90° HOOK LENGTH OF ANCHORAGE WHICH SHALL NOT BE LESS THAN 600mm.

4.2.7 SHOP DRAWING FOR REINFORCEMENT SHALL BE SUBMITTED FOR APPROVAL OF THE ENGINEER PRIOR TO FABRICATION & INSTALLATION.

4.2.8 DEVELOPMENT LENGTH (Ld) OF REINFORCING BARS SHALL BE AS FOLLOWS:

SIZE OF REBARS	DEVELOPMENT LENGTH
10 mm	170 mm
12 mm	220 mm
16 mm	270 mm
20 mm	380 mm
25 mm	600 mm

4.3 STRUCTURAL STEEL

4.3.1 ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM YIELD STRESS, Fy = 248 MPa (36,000 psi)
4.3.2 ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE AS AMMENDED TO DATE.
4.3.3 ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE INDICATED.
4.3.4 SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 AND PERFORMED BY QUALIFIED WELDERS.
4.3.5 UNLESS OTHERWISE INDICATED, WELDING ELECTRODES SHALL BE E60.
4.3.6 NO STEEL SHALL BE FABRICATED OR ERECTED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER.
4.3.7 WELDS/(CONFORM WITH AMERICAN WELDING STANDARDS) USING E 60xx ELECTODES. fy = 93.77 MPa.
4.3.8 ANCHOR BOLTS (CONFORM WITH ASTM A-307) ft = 96.60 MPa. fv = 69 MPa.

4.4 CONCRETE HOLLOW BLOCKS (CHB):

4.4.1 UNLESS OTHERWISE INDICATED, CHB USED IN THIS WORK SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH f'm = 3.45 MPa (500 psi)

4.4.2 ALL CHB CELLS SHALL BE FILLED SOLIDLY WITH GROUT.

5.0 CONSTRUCTION JOINT

5.1 CONSTRUCTION JOINT NOT INDICATED ON THE PLANS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER EXCEPT SLAB ON GRADE.

5.2 UNLESS SHOWN OTHERWISE, SLAB ON GRADE SHALL HAVE CONTROL JOINTS SPACED AT 6000mm MAXIMUM CENTER TO CENTER.

5.3 BEAMS CONSTRUCTION JOINT SHALL BE LOCATED W/ IN THE MIDDLE THIRD OF THE SPAN. IT SHALL BE PROVIDED WITH 3 EXTRA STIRRUPS @ 75mm O.C. ON EACH SIDE OF THE JOINT.

1 S 2 GENERAL NOTES AND STANDARD DETAILS
SCALE NOT TO SCALE

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.

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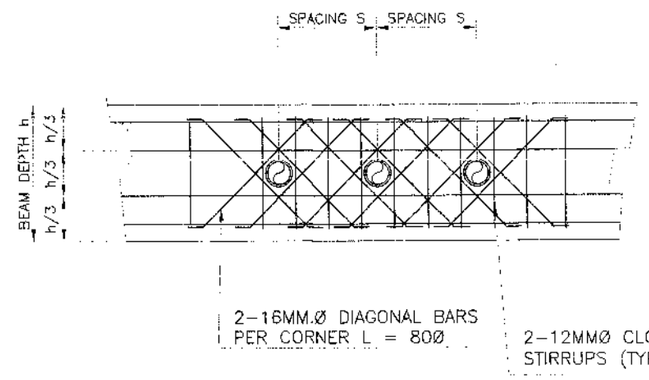
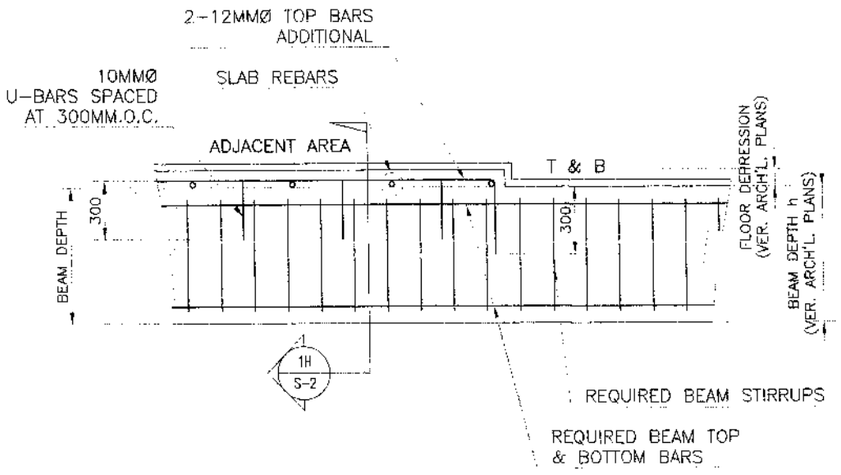


1A S 2 TYP. BEAM PENETRATION DETAIL
SCALE NOT TO SCALE

NOTE :

1. CENTER TO CENTER SPACING OF PIPE SLEEVES SHALL IN NO CASE BE LESS THAN 3 TIMES THE SLEEVE DIAMETER.
2. PIPE SLEEVES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
3. PIPE SLEEVES SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN 1/3 THE OVERALL DEPTH OF THE BEAM.
4. PIPE SLEEVES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE BEAM DEPTH.
5. PIPE SLEEVES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF BEAM CLEAR SPAN.



1B S 2 BEAM DET. FOR T&B DEPRESSION
SCALE NOT TO SCALE

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: CARMELITO C. VENALES JR. ENGINEER DATE: 04/24/25
REVIEWED: GRACE V. COMALING ASST CHIEF, PLANNING & DESIGN SECTION DATE: 04/25/25
SUBMITTED: BRIAN B. VILLANUEVA ENGINEER III CHIEF, PLANNING & DESIGN SECTION DATE: 04/28/25
RECOMMENDED: MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 04/29/25
APPROVED: PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 04/29/25

SET NO: 02 S 37
SHEET NO: 42 98

SPLICING REQUIREMENT OF REINFORCING BARS "Ls" or "Ld"

BEAMS

BAR SIZE	SINGLE & 2 BAR BUNDLE		THREE BAR BUNDLE	
	BOTTOM BARS	TOP BARS	BOTTOM BARS	TOP BARS
16Ø	600MM.	750MM.	800MM.	925MM.
20Ø	750MM.	950MM.	900MM.	1200MM.
25Ø	925MM.	1200MM.	1100MM.	1450MM.

COLUMNS

BAR SIZE	VERTICAL REINFORCEMENT	
	SINGLE & 2 BAR BUNDLE	THREE BAR BUNDLE
20Ø	1000MM.	
25Ø	1500MM.	

FLOOR SLABS

BAR SIZE	SINGLE & 2 BAR BUNDLE
10Ø	400MM.
12Ø	500MM.

NOTE :

Ld = DEVELOPMENT LENGTH OF RE-BARS ABOVE VALUES SHALL BE THE MINIMUM SPLICE OR DEVELOPMENT LENGTH. ADDITIONAL MODIFICATION FACTORS OF ACI (CHAPTER 12) SHALL BE USED WHEREVER APPLICABLE. 36MM.Ø BARS FOR BEAMS SHALL NOT BE BUNDLED.

REMOVAL OF FORMS & SHORINGS

STRUCTURAL ELEMENTS	CLEAR SPAN BETWEEN SUPPORTS	MINIMUM TIME PERIOD (DAYS)
WALLS, COLUMNS, BEAMS, GIRDER SIDES & SLAB ON GRADE	-	1
JOIST, BEAMS & GIRDER SOFFIT	UNDER 3.00 M.	7
	3.00 M. TO 6.00 M.	14
	OVER 6.00 M.	21
ONE-WAY FLOOR SLABS	UNDER 3.00 M.	4
	3.00 M. TO 6.00 M.	7
	OVER 6.00 M.	10

CAMBER REQUIREMENT

ELEMENT	MINIMUM CAMBER
R.C. BEAMS	6MM. FOR EVERY 4.50 M. SPAN
CANTILEVER R.C. BEAMS	18MM. FOR EVERY 3.00 M. SPAN
R.C. SLABS	3MM FOR EVERY 3.00 M. SHORTER SPAN

NOTE:

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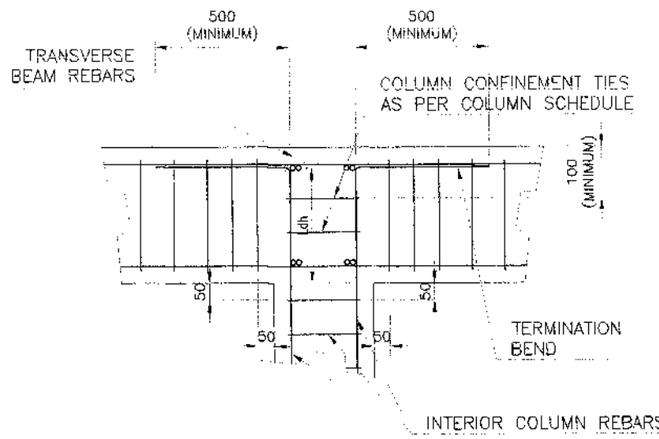
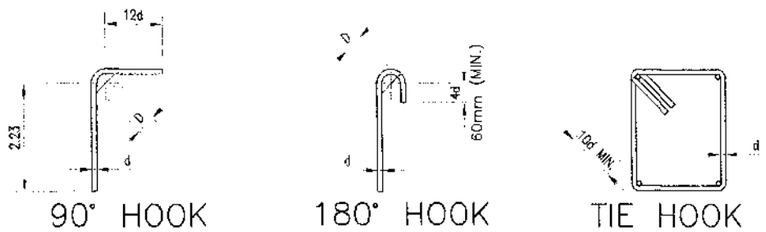


INTERIOR COLUMN TERMINATION BEND

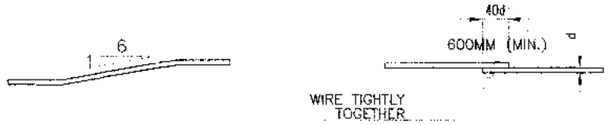
1D / S 3 — SCALE NOT TO SCALE



BAR SIZE	D	
	90° HOOK	180° HOOK
10mmØ THRU 25mmØ	6d	4d
28mmØ THRU 36mmØ	8d	4d

NOTE:

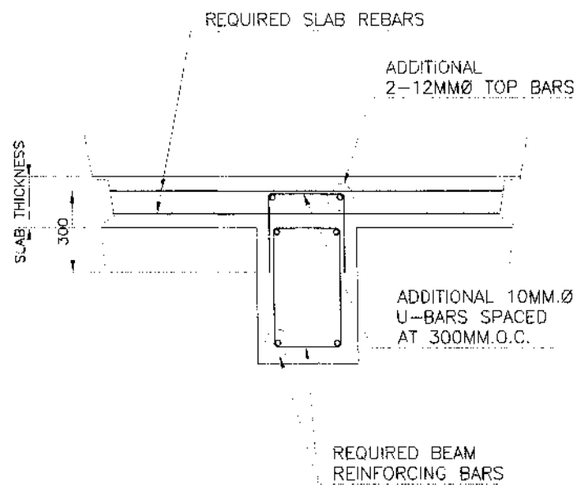
1. ALL BENDS SHOWN IN DETAILS/SCHEDULES SHALL BE STANDARD HOOK UNLESS OTHERWISE NOTED.
2. 180° HOOKS MAY BE SUBSTITUTED FOR 90° HOOKS.



OFFSET LAP SPLICE

TYP. REINFORCEMENT DETAIL

1A / S 3 — SCALE NOT TO SCALE

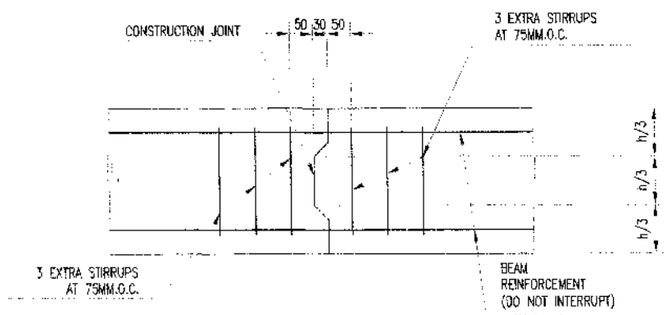


DETAILED SECTION

1B / S 3 — SCALE NOT TO SCALE

STANDARD DETAILS

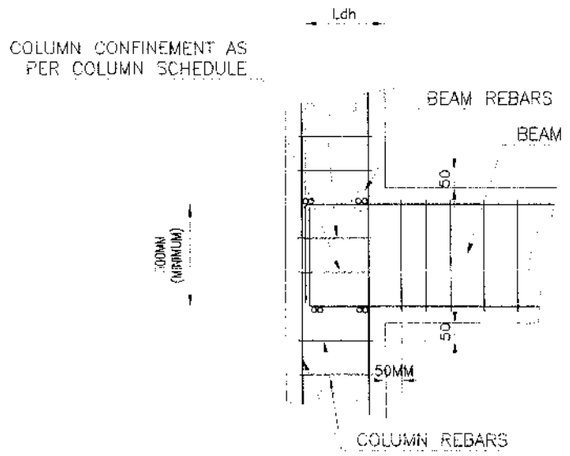
1 / S 3 — SCALE NOT TO SCALE



BEAM CONSTRUCTION JOINT

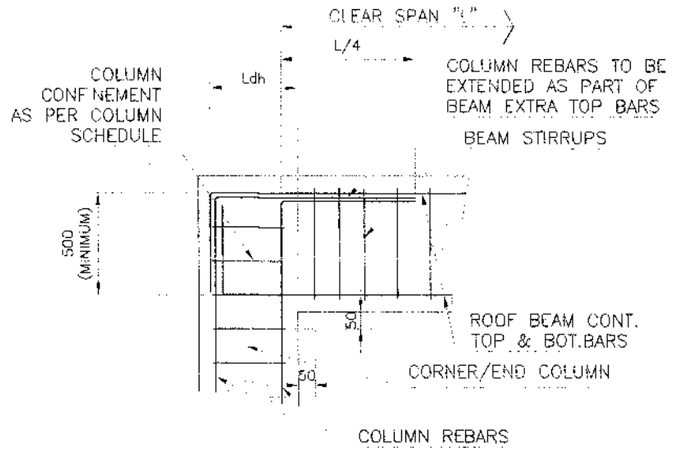
1C / S 3 — SCALE NOT TO SCALE

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR**	SHEET CONTENTS AS SHOWN	PREPARED: **CARMELITO A. RENALES JR.** ENGINEER II DATE:	REVIEWED: **GRACE Y. GOMALING** ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE:	SUBMITTED: **BRIAN [illegible]** ENGINEER II CHIEF, PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE:	SET NO: 03 S37 / SHEET NO: 43 98



BEAM RE-BAR TERMINATION BEND

1A / S 4 SCALE NOT TO SCALE

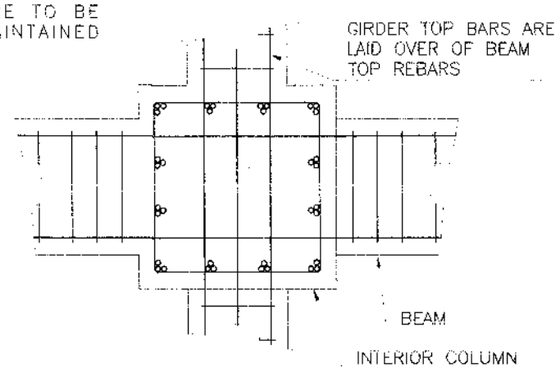


CORNER/ EXTERIOR TERMINATION BEND

1B / S 4 SCALE NOT TO SCALE

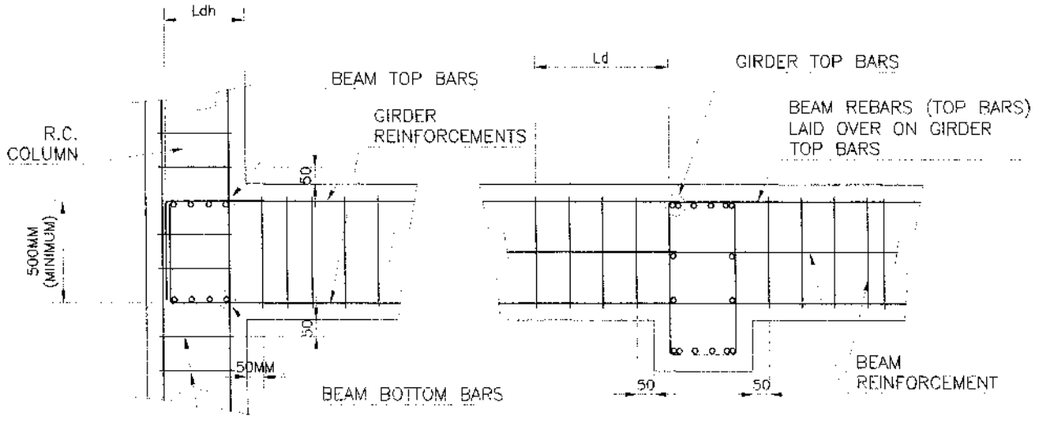
NOTE :

CLEAR DISTANCE BETWEEN RE-BARS ARE TO BE STRICTLY MAINTAINED



TYP. PLAN OF BEAM/ GIRDER COL. JOINT

1C / S 4 SCALE NOT TO SCALE



AT COLUMN INTERSECTION

TYPICAL BEAM AND GIRDER RE-BAR LAYOUT

1D / S 4 SCALE NOT TO SCALE

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.

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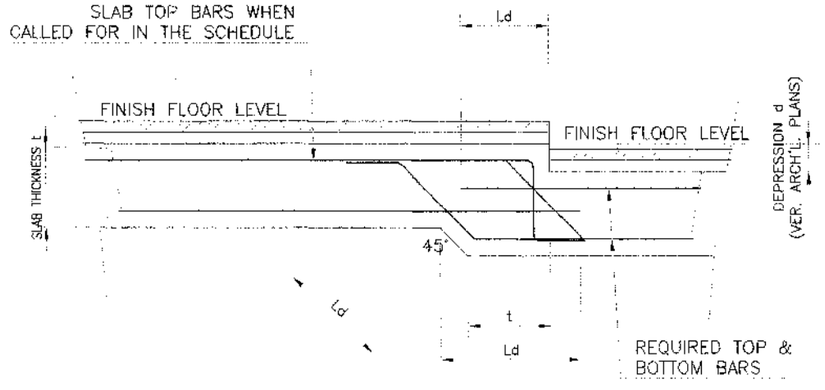
STANDARD DETAILS

1 / S 4 SCALE NOT TO SCALE



TYP. SLAB DEPRESSION DET.

1E / S 4 SCALE NOT TO SCALE

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: CARMELITO A. PENALES, JR. ENGINEER II DATE: 07/24/25

REVIEWED: GRACEY C. MALING ENGINEER II ASST. CHIEF PLANNING AND DESIGN SECTION DATE: 07/25/25

SUBMITTED: BRIAN B. ACEBUCHE ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE: 07/28/25

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

APPROVED: PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 07/30/25

SHEET NO: 04 S37

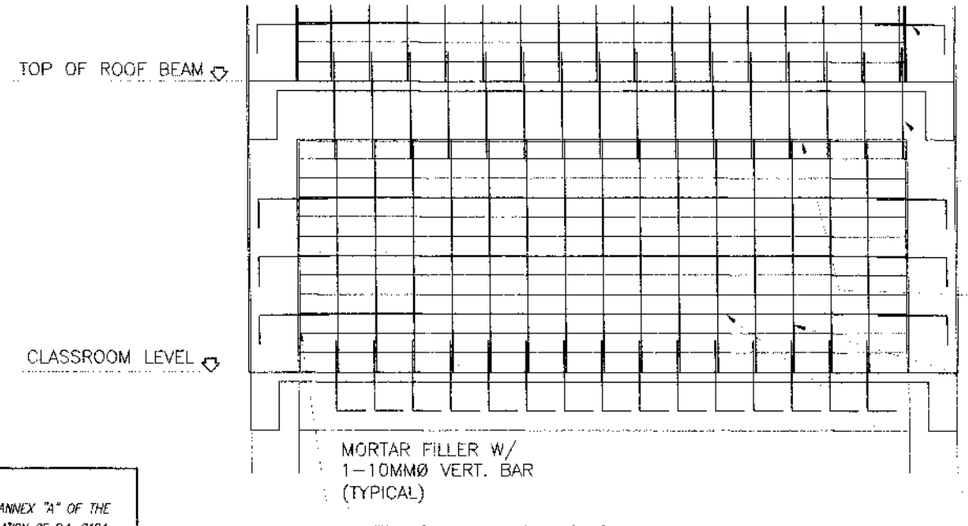
SHEET NO: 44 98

SCHEDULE OF MASONRY WORKS

LINTEL BEAMS					MASONRY	
CHB WALL t (MM.)	B (MM.)	H (MM.)	HORZ. BARS	STIRRUPS	HORIZONTAL BARS	VERTICAL BARS
100	100	200	2-10MMØ	10MMØ @ 300	10MMØ @ 600 MM.O.C.	10MMØ @ 600 MM.O.C.
150	150	200	4-10MMØ	10MMØ @ 300	10MMØ @ 600 MM.O.C.	10MMØ @ 600 MM.O.C.
200	200	200	4-10MMØ	10MMØ @ 300	10MMØ @ 600 MM.O.C.	10MMØ @ 600 MM.O.C.

NOTE :

1. REFER TO ARCHITECTURAL PLANS TO VERIFY LOCATIONS OF ALL CHB WALLS.
2. REFER TO THICKNESS OF FINISHES TO ARCHITECTURAL PLANS.
3. 12MM. THICK GAP SHALL BE PROVIDED IN BETWEEN WALLS & COLUMNS, WALLS & BEAMS, WALLS & SLABS ON TOP.
4. SILICONE SEALANT SHALL BE PROVIDED FOR ALL EXTERNAL WALL (CHB). FOR INTERNAL WALLS SEALANTS NEED NOT BE PROVIDED.
5. STRUCTURAL R.C. WALLS (i.e. WATER TANK, ETC.) SHALL NOT BE PROVIDED W/ 12MM THK. GAPS ALL AROUND.
6. STRUCTURAL GAPS SHALL IN NO CASE BE COVERED W/ PLASTER.



1A / S 5 **TYPICAL MASONRY ELEVATION**
SCALE NOT TO SCALE

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.

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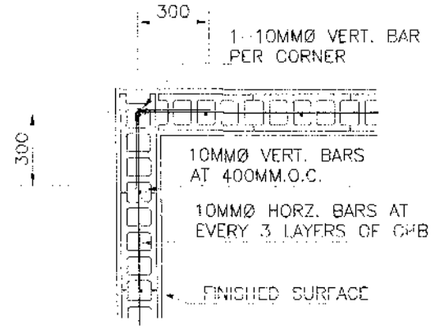
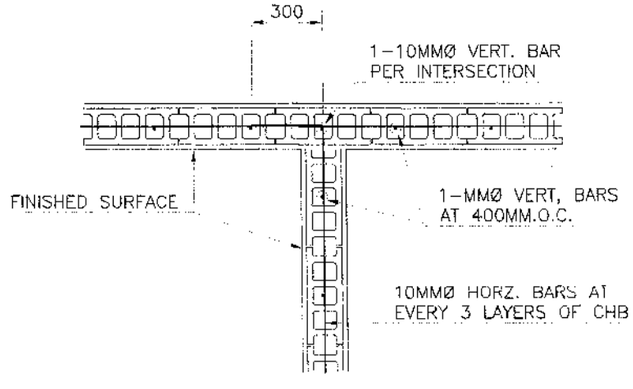


1B / S 5 **CORNER WALL DETAIL**
SCALE NOT TO SCALE



1C / S 5 **WALL INTERSECTION**
SCALE NOT TO SCALE

1 / S 5 **STANDARD DETAILS**
SCALE NOT TO SCALE

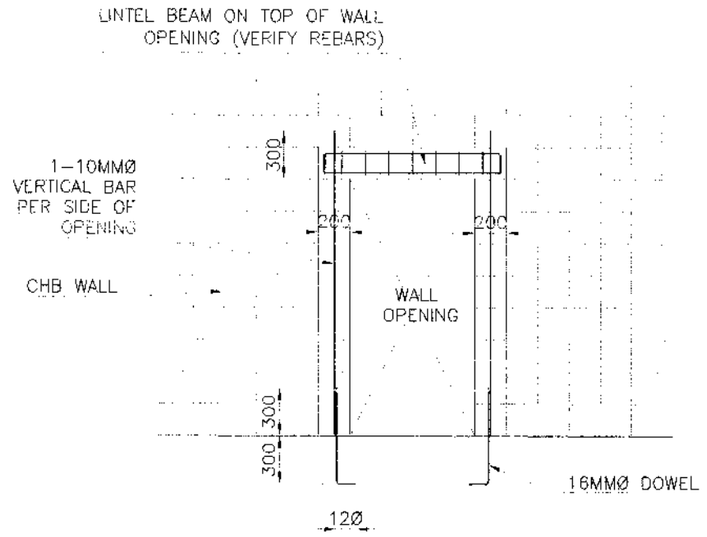
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

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

SHEET CONTENTS:
- AS SHOWN

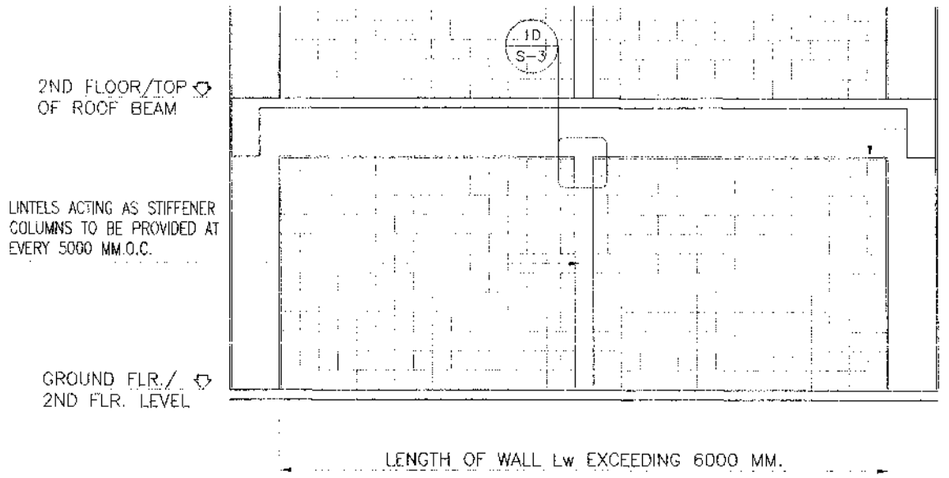
PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
CARMELITO P. VALES JR.	GRACE Y. COMALING	BRIANE VILLANUEVA	MARIA D. FLOREN	PABLO L. ESCUADRO, MPA
ENGINEER III	ASST. CHIEF, PLANNING AND DESIGN SECTION	CHIEF, PLANNING AND DESIGN SECTION	ASSISTANT DISTRICT ENGINEER	DISTRICT ENGINEER
DATE: 04/24/25	DATE: 04/28/25	DATE: 04/28/25	DATE: 04/29/25	DATE: 04/29/25

SET NO.	SHEET NO.
05 S37	45 98



TYP. CHB WALL OPENING ELEV.

1A / S 6 SCALE — NOT TO SCALE



TYP. CHB ELEV. SHOWING LOCATION OF LINTEL BEAMS & STIFFENER COLUMNS

1B / S 6 SCALE — NOT TO SCALE

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.

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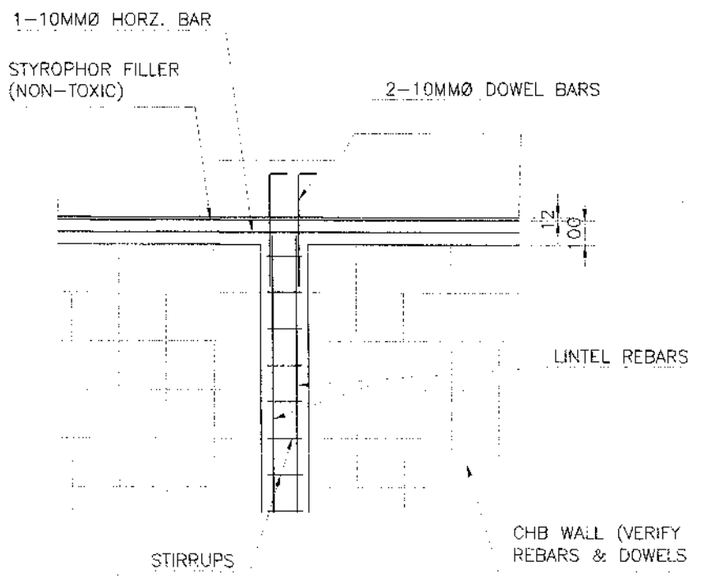
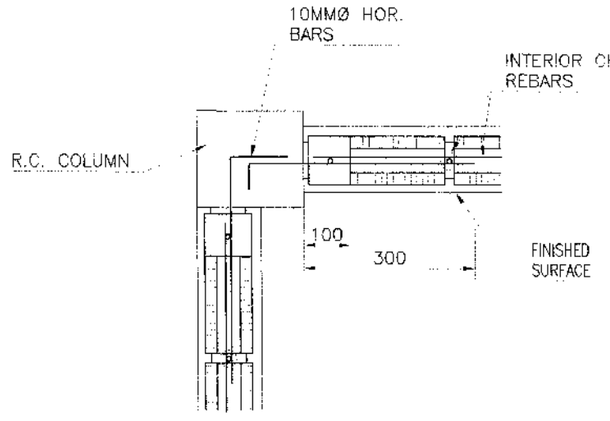


TOP ANCHORAGE OF LINTEL ACTING AS STIFFENER COLUMN

1C / S 6 SCALE — NOT TO SCALE

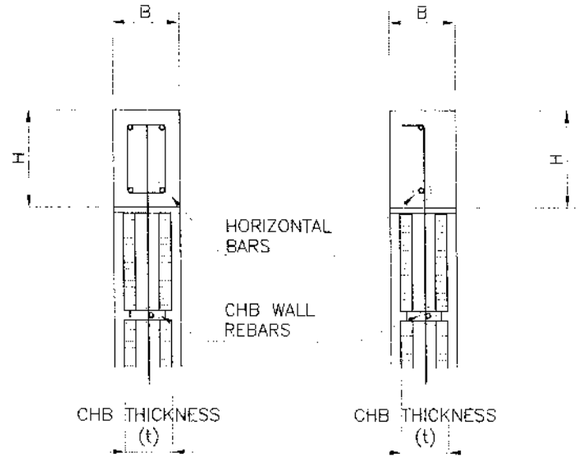


CHB EXTERIOR WALL SIDE ANCHORAGE DET.

1D / S 6 SCALE — NOT TO SCALE

STANDARD DETAILS

1 / S 6 SCALE — NOT TO SCALE



TYPICAL LINTEL BEAM DETAIL

1E / S 6 SCALE — NOT TO SCALE

REPUBLIC OF THE PHILIPPINES
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SHEET CONTENTS:
- AS SHOWN

PREPARED: **CARMELITO A. PEÑALES JR.** ENGINEER II — DATE: 04/29/25

REVIEWED: **GRACE V. COMALING** ASST. CHIEF, PLANS AND DESIGN SECTION — DATE: 04/29/25

SUBMITTED: **GRACE V. COMALING** ENGINEER III, CHIEF, PLANS AND DESIGN SECTION — DATE: 04/29/25

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

APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER — DATE: 04/29/25

SET NO: 06 S37

SHEET NO: 46 98