



Republic of the Philippines  
DEPARTMENT OF TRANSPORTATION  
AND  
COMMUNICATIONS



JAPAN  
INTERNATIONAL  
COOPERATION  
AGENCY

# NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

## DRAWINGS

### COMPONENT-4 Building Works (B)



### Subcomponent-4-4 Fire Station and Airport Maintenance Building (FSM)

August 2013

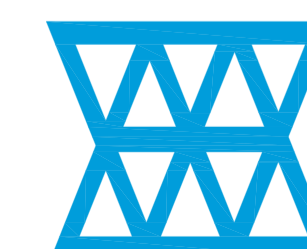
JICA DESIGN CONSULTANT JOINT VENTURE



JAPAN AIRPORT  
CONSULTANTS,  
INC.



NIPPON KOEI  
CO., LTD.








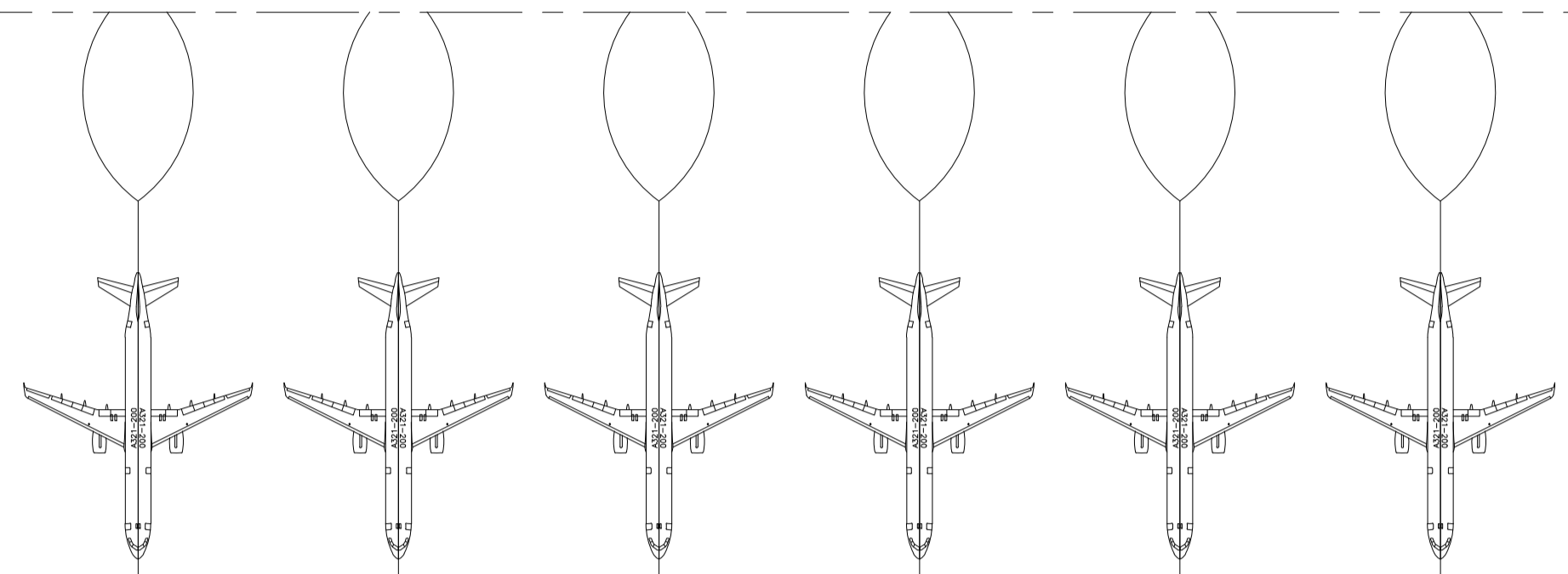
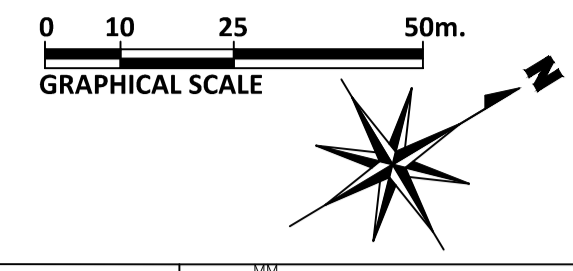
NJS CONSULTANTS  
CO., LTD.

## DRAWING LIST

**DOCUMENT IV: DRAWINGS**  
**COMPONENT-4: BUILDING WORKS (B)**  
**SUBCOMPONENT-4-4: (B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING**

| SHEET No.      | SHEET CONTENTS                                                                         | SHEET No.      | SHEET CONTENTS                 |
|----------------|----------------------------------------------------------------------------------------|----------------|--------------------------------|
| <b>B4-4300</b> | <b>ARCHITECTURAL WORKS</b>                                                             | <b>B4-6000</b> | <b>ELECTRICAL WORKS</b>        |
| B4-4300-01     | LOCATION PLAN                                                                          | B4-6100-01     | ELEC. EQUIP.LAYOUT             |
| B4-4300-02     | LAYOUT PLAN, FLOOR AREA SCHEDULE & EXTERNAL FINISHING SCHEDULE                         | B4-6100-02     | CABLE TRAY LAYOUT              |
| B4-4300-03     | INTERNAL FINISHING SCHEDULE                                                            | B4-6100-03     | PWR FEEDER LAYOUT              |
| B4-4300-04     | FLOOR PLAN                                                                             | B4-6200-01     | RECEPTACLE LAYOUT              |
| B4-4300-05     | ROOF DECK PLAN                                                                         | B4-6200-02     | LIGHTING LAYOUT                |
| B4-4300-06     | ELEVATIONS                                                                             | B4-6200-03     | PANEL SCHEDULE                 |
| B4-4300-07     | SECTIONS                                                                               | B4-6300-01     | TELEPHONE LAYOUT               |
| B4-4300-08     | TOILET 1 DETAIL PLAN                                                                   | B4-6400-01     | CABLE TV LAYOUT                |
| B4-4300-09     | TOILET 2 DETAIL PLAN                                                                   | B4-6600-01     | CLOCK LAYOUT                   |
| B4-4300-10     | TOILET 3 & SHOWER DETAIL PLAN & SECTION                                                | B4-6800-01     | FDAS LAYOUT                    |
| B4-4300-11     | KITCHEN DETAIL PLAN & SECTION                                                          | B4-6900-01     | GROUNDING SYSTEM               |
| B4-4300-12     | INTERNAL ELEVATION 1-5                                                                 | <b>B4-7000</b> | <b>SPECIAL EQUIPMENT WORKS</b> |
| B4-4300-13     | INTERNAL ELEVATION 2-5                                                                 | B4-7500-01     | LOCATION OF LCD GF             |
| B4-4300-14     | INTERNAL ELEVATION 3-5                                                                 |                |                                |
| B4-4300-15     | INTERNAL ELEVATION 4-5                                                                 |                |                                |
| B4-4300-16     | INTERNAL ELEVATION 5-5                                                                 |                |                                |
| B4-4300-17     | REFLECTED CEILING PLAN                                                                 |                |                                |
| B4-4300-18     | SCHEDULE DOORS & WINDOWS                                                               |                |                                |
| B4-4300-19     | SECTION DETAIL 1 & 2                                                                   |                |                                |
| <b>B4-4200</b> | <b>STRUCTURAL WORKS</b>                                                                |                |                                |
| B4-4200-01     | FOUNDATION AND FRAMING PLAN UPPER ROOF DECK & ROOF DECK                                |                |                                |
| B4-4200-02     | FOUNDATION DETAILS, COLUMN DETAILS & BEAM SCHEDULE                                     |                |                                |
| B4-4200-03     | FRAME ELEVATIONS                                                                       |                |                                |
| B4-4200-04     | RC SLAB DETAIL                                                                         |                |                                |
| <b>B4-5100</b> | <b>SANITARY AND PLUMBING WORKS</b>                                                     |                |                                |
| B4-5100-01     | GROUND FLOOR PLUMBING PLAN, SCHEDULE OF PLUMBING EQUIPMENT & SANITARY FIXTURE SCHEDULE |                |                                |
| B4-5100-02     | ROOF DECK PLUMBING PLAN                                                                |                |                                |
| B4-5100-03     | TOILET 1 & 2 BLOW - UP PLANS                                                           |                |                                |
| B4-5100-04     | TOILET 3 BLOW-UP PLANS AND KITCHEN BLOW - UP PLANS                                     |                |                                |
| <b>B4-5200</b> | <b>MECHANICAL WORKS</b>                                                                |                |                                |
| B4-5200-01     | EQUIPMENT SCHEDULE AND AIR TERMINAL DEVICE                                             |                |                                |
| B4-5200-02     | GROUND FLOOR AIR-CONDITIONING VENTILATION LAYOUT                                       |                |                                |
| B4-5200-03     | ROOF DECK VENTILATION LAYOUT                                                           |                |                                |
| B4-5200-04     | GROUND FLOOR REFRIGERANT PIPING LAYOUT                                                 |                |                                |
| <b>B4-5300</b> | <b>FIRE PROTECTION</b>                                                                 |                |                                |
| B4-5300-01     | FIRE PROTECTION LAYOUT                                                                 |                |                                |

|                                                                                                                                                                                                                                                                                                     |                                                                                                                                        |                                                                                                                                                                                            |                                                                                                                                                  |                                                                                                                                  |                                                                                                                                                                                              |                                                                                                                                                |                                                      |
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| <br>Republic of the Philippines<br>DEPARTMENT OF TRANSPORTATION<br>AND<br>COMMUNICATIONS                                                                                                                         | <br>JAPAN<br>INTERNATIONAL<br>COOPERATION<br>AGENCY | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR. 3911137<br/>         REG. NO.: 4623 DATE: MAY 9, 2013<br/>         T.I.N. 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary<br/>         for Project Implementation, DOTC</small> | APPROVED:<br><br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary<br/>         for Project Implementation, DOTC</small> | PROJECT TITLE:<br><br><b>NEW BOHOL AIRPORT CONSTRUCTION AND<br/>         SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b><br>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT<br>MAINTENANCE BUILDING<br>DRAWING LIST | SHEET NO:<br><b>B4-LIST</b><br>DRAWING SCALE:<br>NTS |
| JICA DESIGN CONSULTANT JOINT VENTURE<br>   |                                                                                                                                        | <b>TADASHI AOI</b><br><small>Team Leader</small>                                                                                                                                           | <b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary<br/>         for Project Implementation, DOTC</small>                               | <b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary<br/>         for Project Implementation, DOTC</small>                  | JUNE 2013<br>DATE INDEX AMENDMENTS<br>Prepared by: WIM<br>Checked by: HC<br>Validated by:                                                                                                    |                                                                                                                                                |                                                      |



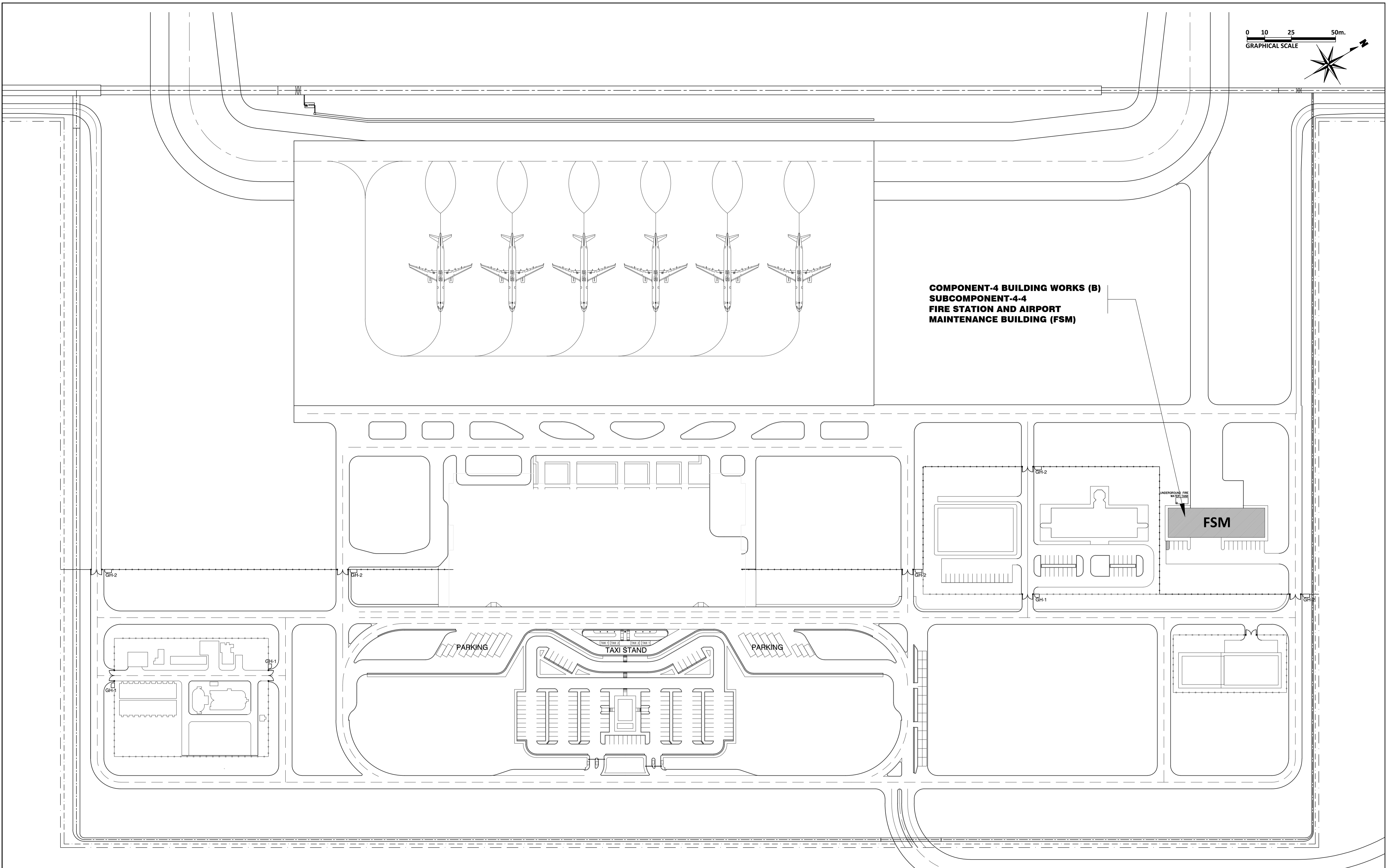
**COMPONENT-4 BUILDING WORKS (B)  
SUBCOMPONENT-4-4  
FIRE STATION AND AIRPORT  
MAINTENANCE BUILDING (FSM)**

**FSM**

PARKING

TAXI STAND

PARKING



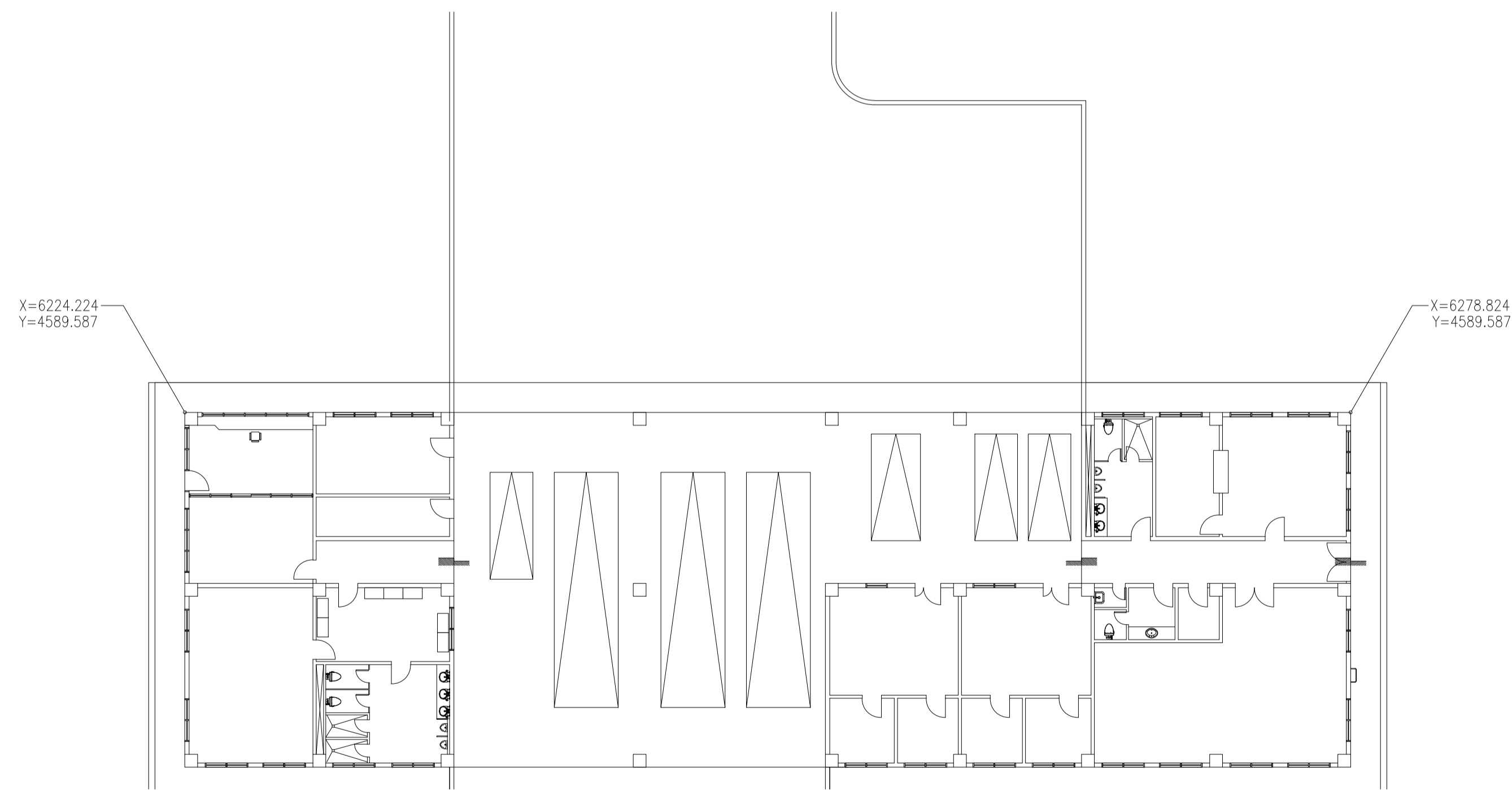
|  |                                                                                                                                                                        |                                                                                                                                     |                                                                                                                     |                                                                                                                                                                                 |                                                                                                                                                                  |                                                               |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
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|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAC JAPAN AIRPORT CONSULTANTS, INC.                                                                                            | TADASHI AOI<br>Team Leader                                                                                                          | ILDEFONSO T. PATDU, JR.<br>Assistant Secretary<br>for Project Implementation, DOTC                                  | JULIANITO G. BUCAYAN, JR.<br>Undersecretary<br>for Project Implementation, DOTC                                                                                                 | DATE: JUNE 2013<br>INDEX<br>AMENDMENTS<br>Prepared by: WIM<br>Checked by: HC<br>Validated by:                                                                    |                                                               |

**FIRE STATION AND AIRPORT MAINTENANCE BUILDING  
OUTLINE OF EXTERNAL FINISHING SCHEDULE**

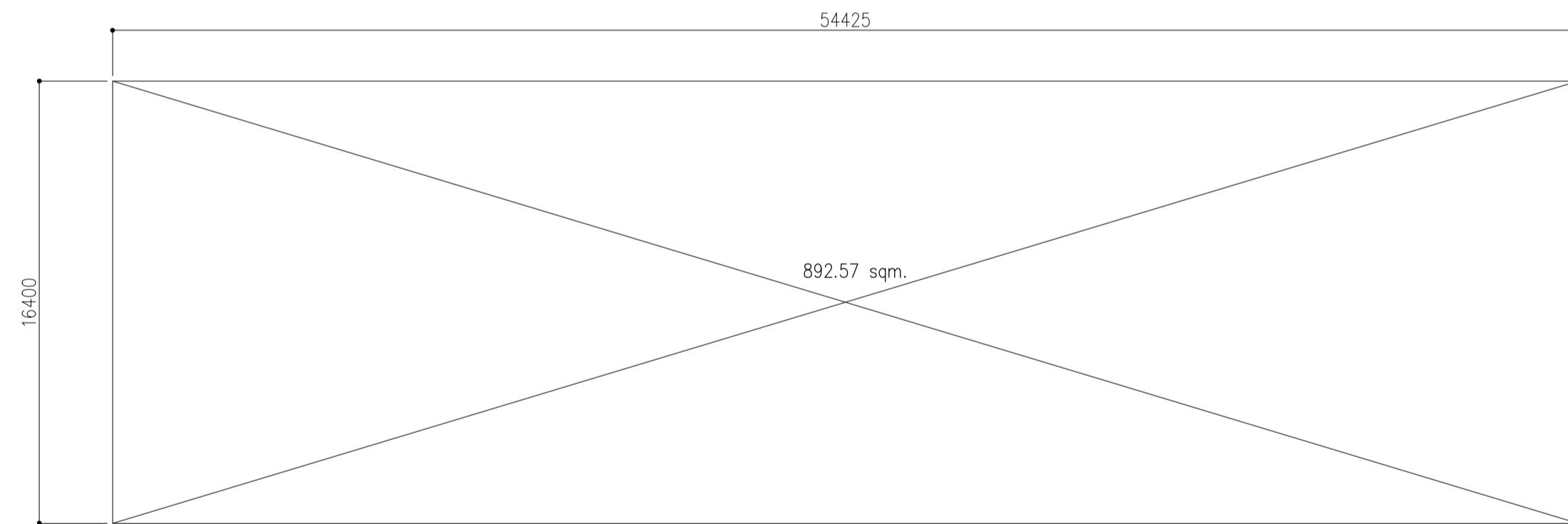
| Portion        | Appl. | Symbol | Finishing Material                                                                                                                                                                     | Portion         | Appl. | Symbol                | Finishing Material                                    |
|----------------|-------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|-----------------------|-------------------------------------------------------|
| Floor          |       | FLG    | t=30 Granite tile with jet burner finish on cement setting bed                                                                                                                         | Walls           |       | WLA                   | Aluminum Back-mullion Curtain wall Framing system     |
|                | X     | FLS    | Cement render finishing with metal troweled (t=30)                                                                                                                                     |                 | X     | WLR                   | Cement render finish w/P-4                            |
|                |       | FLC    | Ceramic tile 300 x 300 slip resistance finishing                                                                                                                                       |                 |       | WLC                   | Fair faced concrete w/P-4                             |
| Roof           |       | ROD    | Single folded steel plate roof with insulation<br>(Folded steel plate : t=0.6, h=41 Fluorin-resin coated aluminized steel, Insulation : t=100 Glass wool wrapped in polyethylene film) | Windows         | X     | AW                    | Anodizing with electro deposition aluminum window     |
|                |       | ROS    | Single folded steel plate (t=0.6, h=41) fluorine-resin coated aluminized steel<br>w/ prefabricated fiber glass sheet t=5mm                                                             |                 |       |                       |                                                       |
|                | X     | ROC    | Protective concrete layer on insulation board and pre-formed waterproofing membrane WP-1                                                                                               |                 |       |                       |                                                       |
|                |       | ROPS   | Vinyl Chloride resin sheet membrane on insulation board t=30                                                                                                                           |                 |       |                       |                                                       |
|                |       | ROPR   | Hot applied rubberized asphalt waterproofing system WP-2                                                                                                                               |                 |       |                       |                                                       |
| Roof Gutter    |       | RGA    | Stainless sheet (t=2) w/ polyethylene foam W=500                                                                                                                                       | Doors           |       | SD                    | Steel door w/P3                                       |
|                |       | RGB    | Stainless sheet (t=2) w/ polyethylene foam W=300                                                                                                                                       |                 | X     | AD                    | Anodizing with electro deposition aluminum door       |
| Fascia         |       | EVA    | t=2.5 Aluminum panel w/P-8                                                                                                                                                             | Column          | X     | CNR                   | Cement render finish w/P-4                            |
|                |       | EVT    | Aluminum decorative louver w/P-8                                                                                                                                                       |                 |       | CNC                   | Fair faced concrete w/P-4                             |
| Parapet        | X     | PAR    | Cement render finish w/P4                                                                                                                                                              |                 |       | CNF                   | Fair faced concrete                                   |
|                |       | PAF    | Fair faced concrete w/ P4                                                                                                                                                              |                 |       | CNB                   | t=8 Calcium silicate board w/P-4                      |
| Downspout      |       | DSA    | d=100 Galvanized SGP w/P-3                                                                                                                                                             |                 |       | CNS                   | Steel structure w/P-8                                 |
|                |       | DSB    | d=150 Galvanized SGP w/P-3                                                                                                                                                             | Beam            | X     | BMR                   | Cement render finish w/P-4                            |
|                | X     | DSC    | d=100 UPVC Pipe w/P-7                                                                                                                                                                  |                 |       | BMC                   | Fair faced concrete w/P-4                             |
|                |       |        |                                                                                                                                                                                        |                 | BMF   | Fair faced concrete   |                                                       |
|                |       |        |                                                                                                                                                                                        |                 | BMS   | Steel structure w/P-4 |                                                       |
| Soffit         |       | SFA    | t=8 Calcium silicate board w/P-7                                                                                                                                                       |                 | Base  | X                     | BSR                                                   |
|                |       | SFB    | t=8 Calcium silicate board w/P-1                                                                                                                                                       |                 |       | BSF                   | Fair faced concrete h=300                             |
|                | X     | SFC    | Formed Face Concrete                                                                                                                                                                   |                 |       | SKG                   | t=25 Granite tile H=100                               |
| Parapet Coping |       | PCA    | Anodizing with electro deposition Aluminum Coping                                                                                                                                      | Roller Doors    |       | RDST                  | Roller steel door w/P-3                               |
|                | X     | PCR    | Cement render finish w/ P4                                                                                                                                                             |                 |       | RDC                   | Roller steel grill w/P-3                              |
| Sky Light      |       | SKL    | Laminated glass with anodizing with electro deposition frame                                                                                                                           | Expansion Joint |       | EXJ                   | Pre-fabricated stainless steel expansion joint covers |
|                |       |        |                                                                                                                                                                                        |                 |       |                       |                                                       |
| Ladder         |       | LDS    | Stainless steel pipe                                                                                                                                                                   |                 |       |                       |                                                       |
|                |       |        |                                                                                                                                                                                        |                 |       |                       |                                                       |

Legend for Paint Type

- P-1 Synthetic Resin Emulsion Paint
- P-2 Synthetic Resin Mixed Paint type I (for wood)
- P-3 Synthetic Resin Mixed Paint type II (for steel)
- P-4 Synthetic Resin Emulsion Multi-Layer Coating
- P-5 Clear Lacquer
- P-6 Epoxy Resin Floor Paint
- P-7 Acrylic Resin Enamel Paint
- P-8 Fluorine-resin Enamel coating
- wp-3: Water Proofing : Urethane Waterproofing Coating
- UE : Urethane Paint



**1 LAYOUT PLAN**  
SCALE 1:200 MTS



**1 GROUND FLOOR**  
SCALE 1:200

FIRE STATION & MAINTENANCE BLDG. FLOOR AREA SCHEDULE

| FSM     | FL | Floor Area            |
|---------|----|-----------------------|
|         | GF | 892.57 m <sup>2</sup> |
| TOTAL = |    | 892.57 m <sup>2</sup> |

|                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                     |                                                                                                                               |                                                                                                               |                                                                                                                                                                                             |                                                                                                                                                                                                                                       |                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
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|                                                                                                                                                                                                                                                                                                                                        | <p>DATE: JUNE 2013</p> <p>INDEX</p> <p>AMENDMENTS</p> <p>Prepared by: WIM</p> <p>Checked by: HC</p> <p>Validated by:</p>                                            |                                                                                                                               |                                                                                                               |                                                                                                                                                                                             |                                                                                                                                                                                                                                       |                                                                                    |

# FIRE STATION AND AIRPORT MAINTENANCE BUILDING OUTLINE OF INTERNAL FINISHING SCHEDULE

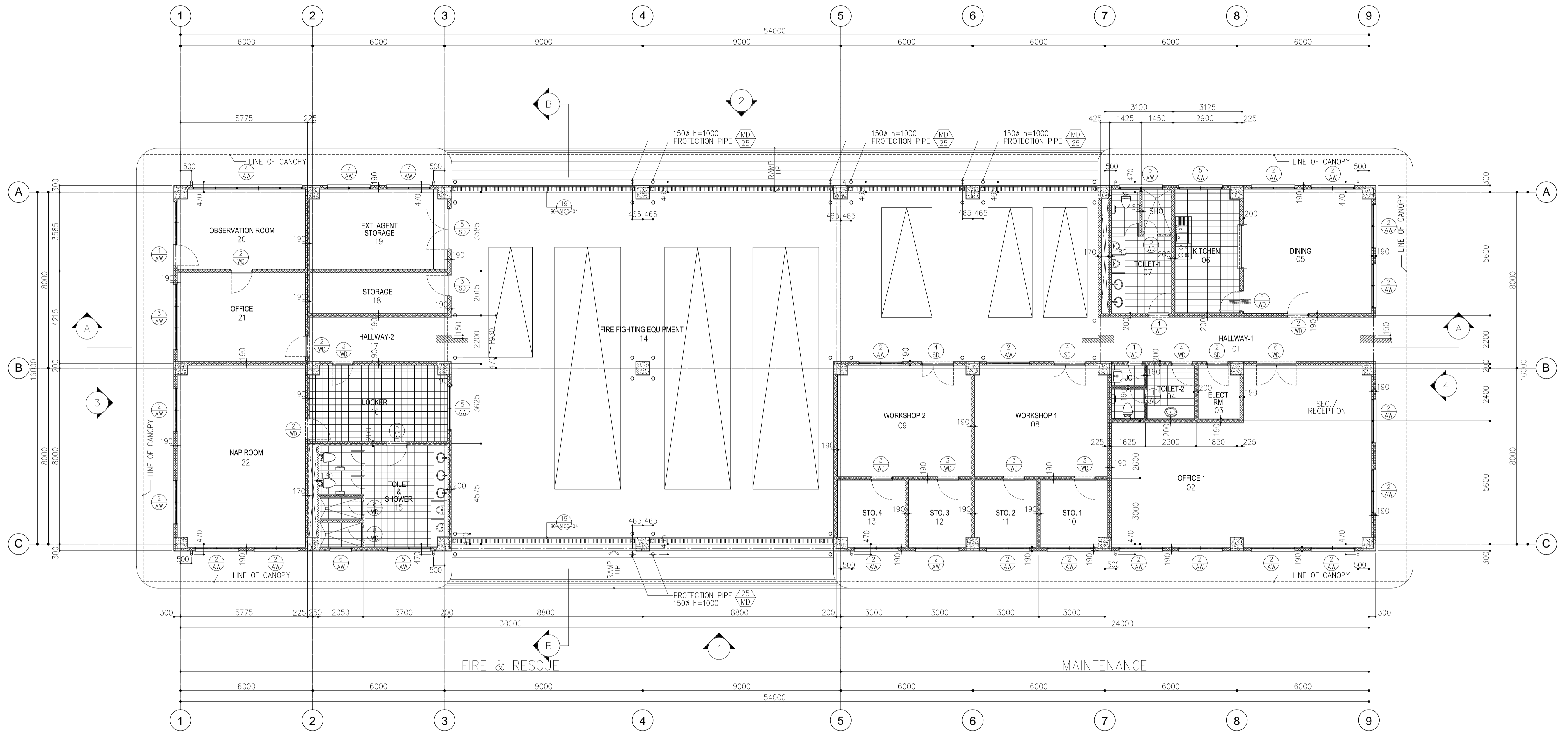
| Room Number | Building Element               | Finishing        |    | Floor |    |    |    |    |    |    |    |    |     |     | Skirting |    |    |    |    |    |    |    |    |    | Wall |    |    |    |     |     |     |     |     |     | Columns |     |     |    |    |    |    |    |    |                                                                | Beam                                                           |           |    |           | Ceilings |  |  |  |  |  |  |  | Remarks |
|-------------|--------------------------------|------------------|----|-------|----|----|----|----|----|----|----|----|-----|-----|----------|----|----|----|----|----|----|----|----|----|------|----|----|----|-----|-----|-----|-----|-----|-----|---------|-----|-----|----|----|----|----|----|----|----------------------------------------------------------------|----------------------------------------------------------------|-----------|----|-----------|----------|--|--|--|--|--|--|--|---------|
|             |                                | Room Designation | CH | F1    | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 | F11 | S1       | S2 | S3 | S4 | S5 | W1 | W2 | W3 | W4 | W5 | W6   | W7 | W8 | W9 | W10 | Co1 | Co2 | Co3 | Co4 | Co5 | Co6     | Co7 | Co8 | B1 | B2 | B3 | B4 | C1 | C2 | C3                                                             | C4                                                             | C5        | C6 | C7        | C8       |  |  |  |  |  |  |  |         |
| 01          | HALLWAY-1                      | 2400             |    |       |    |    |    |    |    |    |    |    |     |     |          | X  |    |    |    |    |    |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 02          | OFFICE-1                       | 2700             |    |       |    |    |    |    |    |    |    |    |     |     |          |    |    |    | X  |    |    |    |    |    |      |    |    |    |     |     |     |     |     | X   |         |     |     |    |    |    |    |    |    |                                                                |                                                                |           |    | Blind BoX |          |  |  |  |  |  |  |  |         |
| 03          | ELECTRICAL ROOM                | 2700             |    |       |    |    |    |    |    |    |    |    |     |     |          |    |    |    |    |    |    |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 04          | TOILET-2 & J.C.                | 2400             |    |       |    |    | X  |    |    |    |    |    |     |     |          |    |    |    |    |    |    |    | X  |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 05          | DINING                         | 2700             |    |       |    |    | X  |    |    |    |    |    |     |     |          |    |    |    |    |    |    |    |    | X  |      |    |    |    |     |     |     |     |     |     |         |     | X   |    |    |    |    |    |    |                                                                |                                                                | Blind BoX |    |           |          |  |  |  |  |  |  |  |         |
| 06          | KITCHEN                        | 2700             |    |       |    |    | X  |    |    |    |    |    |     |     |          |    |    |    |    |    |    |    |    | X  |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 07          | TOILET-1                       | 2700             |    |       |    |    | X  |    |    |    |    |    |     |     |          |    |    |    |    |    |    |    |    | X  |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    | X  |    |    |                                                                | Toilet Accessory, Partition, Mirror, All CHB work up to Soffit |           |    |           |          |  |  |  |  |  |  |  |         |
| 08          | WORKSHOP 1                     | 2700             |    |       |    |    |    |    | X  |    |    |    |     |     |          |    |    |    |    |    |    | X  |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    | Blind BoX                                                      |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 09          | WORKSHOP 2                     | 2700             |    |       |    |    |    |    | X  |    |    |    |     |     |          |    |    |    |    |    | X  |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                | Blind BoX                                                      |           |    |           |          |  |  |  |  |  |  |  |         |
| 10          | STORAGE 1                      | 2700             |    |       |    |    |    |    | X  |    |    |    |     |     |          |    |    |    |    |    | X  |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                | Blind BoX                                                      |           |    |           |          |  |  |  |  |  |  |  |         |
| 11          | STORAGE 2                      | 2700             |    |       |    |    |    |    | X  |    |    |    |     |     |          |    |    |    |    |    | X  |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                | Blind BoX                                                      |           |    |           |          |  |  |  |  |  |  |  |         |
| 12          | STORAGE 3                      | 2700             |    |       |    |    |    |    | X  |    |    |    |     |     |          |    |    |    |    |    | X  |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                | Blind BoX                                                      |           |    |           |          |  |  |  |  |  |  |  |         |
| 13          | STORAGE 4                      | 2700             |    |       |    |    |    |    | X  |    |    |    |     |     |          |    |    |    |    |    | X  |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                | Blind BoX                                                      |           |    |           |          |  |  |  |  |  |  |  |         |
| 14          | FIRE FIGHTING EQUIPMENT GARAGE | -                |    |       |    |    |    |    |    |    |    |    |     | X   |          |    |    |    |    |    |    |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    | Skirting Paint with P-4                                        |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 15          | TOILET & SHOWER                | 2700             |    |       |    |    | X  |    |    |    |    |    |     |     |          |    |    |    |    |    |    |    | X  |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    | Toilet Accessory, Partition, Mirror, All CHB work up to Soffit |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 16          | LOCKER                         | 2700             |    |       |    |    | X  |    |    |    |    |    |     |     |          |    |    |    |    |    |    |    | X  |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    | Blind BoX                                                      |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 17          | HALLWAY-2                      | 2400             |    |       |    |    | X  |    |    |    |    |    |     |     |          |    |    |    | X  |    |    |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 18          | STORAGE                        | 2700             |    |       |    |    |    |    |    |    |    |    |     |     |          |    |    |    |    |    |    |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 19          | EXTINGUISHING AGENT STORAGE    | 2700             |    |       |    |    |    |    |    |    | X  |    |     |     |          |    |    |    |    |    |    |    |    |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    |                                                                |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 20          | OBSERVATION ROOM               | 2700             |    |       |    |    |    |    |    |    | X  |    |     |     |          |    |    |    |    |    |    |    | X  |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    | Blind BoX                                                      |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 21          | OFFICE                         | 2700             |    |       |    |    | X  |    |    |    |    |    |     |     |          |    |    |    |    |    |    |    | X  |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    | Blind BoX                                                      |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |
| 22          | NAP ROOM                       | 2700             |    |       |    |    | X  |    |    |    |    |    |     |     |          |    |    |    |    |    |    |    | X  |    |      |    |    |    |     |     |     |     |     |     |         |     |     |    |    |    |    |    |    | Blind BoX                                                      |                                                                |           |    |           |          |  |  |  |  |  |  |  |         |

**Legend for Paint Type**

P-1 Synthetic Resin Emulsion Paint  
 P-2 Synthetic Resin Mixed Paint type I (for wood)  
 P-3 Synthetic Resin Mixed Paint type II (for steel)  
 P-4 Synthetic Resin Emulsion Multi-Layer Coating  
 P-5 Clear Lacquer  
 P-6 Epoxy Resin Floor Paint  
 P-7 Acrylic Resin Enamel Paint  
 P-8 Fluorine-resin Enamel coating

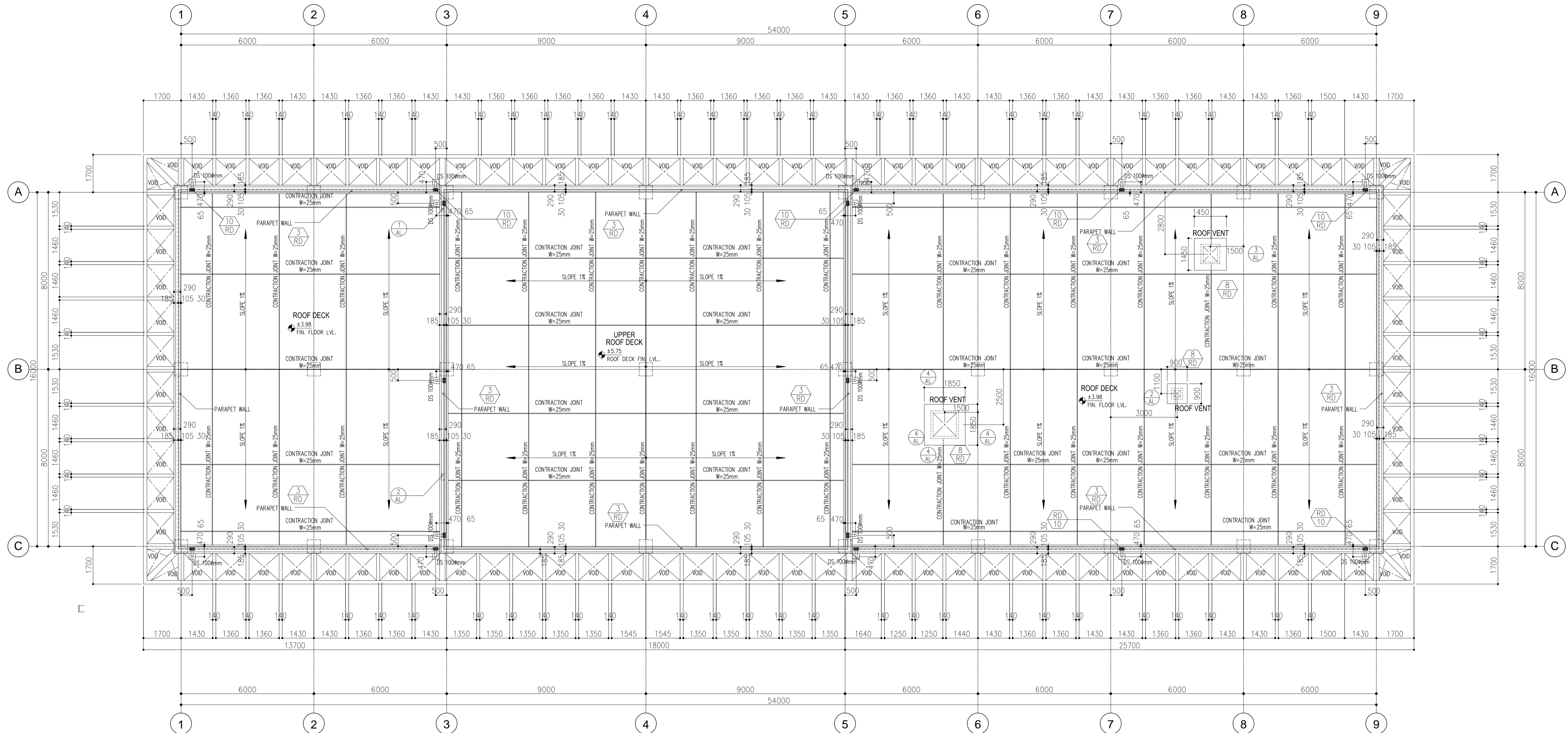
wp-3: Water Proofing : Urethane Waterproofing Coating  
 UE : Urethane Paint

|                                          |                                                                                                                                                                                              |                                                                                                                       |                                                                                                       |                                                                                                                                                                                                            |                                                                                                                                                                                |                                                              |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <br>JICA DESIGN CONSULTANT JOINT VENTURE | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR. 3911137<br/>         REC. NO.: 4623 DATE: MAY 9, 2013<br/>         T.I.N. 156-564-196 PLACE: MARIKINA CITY</small> | RECOMMENDING APPROVAL:<br>_____<br>ILDEFONSO T. PATDU, JR.<br>Assistant Secretary<br>for Project Implementation, DOTC | APPROVED:<br>_____<br>JULIANITO G. BUCAYAN, JR.<br>Undersecretary<br>for Project Implementation, DOTC | PROJECT TITLE:<br><h2 style="text-align: center;">NEW BOHOL AIRPORT CONSTRUCTION AND<br/>SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</h2> LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT<br>MAINTENANCE BUILDING<br>ARCHITECTURAL<br>INTERNAL FINISHING SCHEDULE | SHEET NO:<br><h3 style="text-align: center;">B4-4300-03</h3> |
| <br>JAPAN AIRPORT CONSULTANTS, INC.      | <br>NIPPON KOEI CO., LTD.                                                                                                                                                                    | <br>NIS CONSULTANTS CO., LTD.                                                                                         | <br><b>TADASHI AOI</b><br>Team Leader                                                                 | DATE INDEX AMENDMENTS<br>JUNE 2013<br>Prepared by: WIM<br>Checked by: HC<br>Validated by:                                                                                                                  | DRAWING SCALE:<br>NOT TO SCALE                                                                                                                                                 |                                                              |

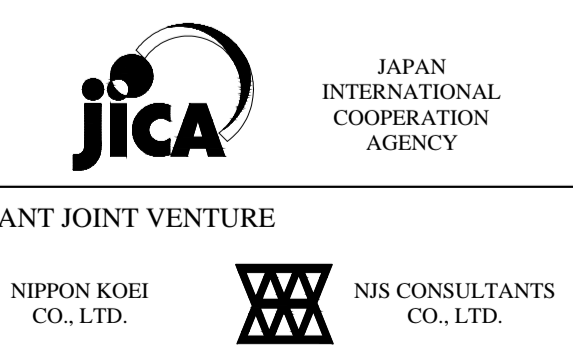
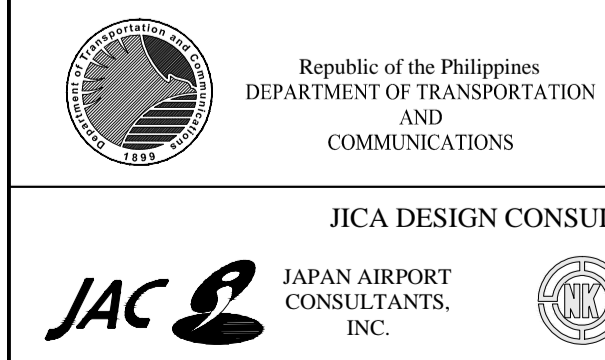


1 FIRE STATION & MAINTENANCE BUILDING  
 B4-4300-04 FLOOR PLAN SCALE : 1:100 MTS.

|  |                                                                                                                                                                                          |                                                                                                                                              |                                                                                                                              |                                                                                                          |                                                                   |                                                                                                                                                      |                                |                                                     |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|
|  | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR. 3911137<br/>         REG. NO.: 4623 DATE: MAY 9, 2013<br/>         T.N. 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary<br/>         for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary<br/>         for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b>   | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL FLOOR PLAN | SHEET NO:<br><b>B4-4300-04</b> |                                                     |
|  | JICA DESIGN CONSULTANT JOINT VENTURE                                                                                                                                                     | TADASHI AOI<br><small>Team Leader</small>                                                                                                    | ILDEFONSO T. PATDU, JR.<br><small>Assistant Secretary<br/>         for Project Implementation, DOTC</small>                  | JULIANITO G. BUCAYAN, JR.<br><small>Undersecretary<br/>         for Project Implementation, DOTC</small> | DATE: JUNE 2013                                                   | INDEX:                                                                                                                                               | AMENDMENTS:                    | Prepared by: WIM<br>Checked by: HC<br>Validated by: |



2 FIRE & RESCUE - MAINTENANCE BUILDING  
 B4-4300-05 ROOF DECK PLAN  
 SCALE : 1:100 MTS.



PREPARED BY:  
**WILLIAM I. MALLONGA**  
 ARCHITECT  
 PIR. 3911137  
 REG. NO. 4623 DATE: MAY 9, 2013  
 TIN. 150-564-196 PLACE: MAKATI CITY

RECOMMENDING APPROVAL:  
**ILDEFONSO T. PATDU, JR.**  
 Assistant Secretary  
 for Project Implementation, DOTC

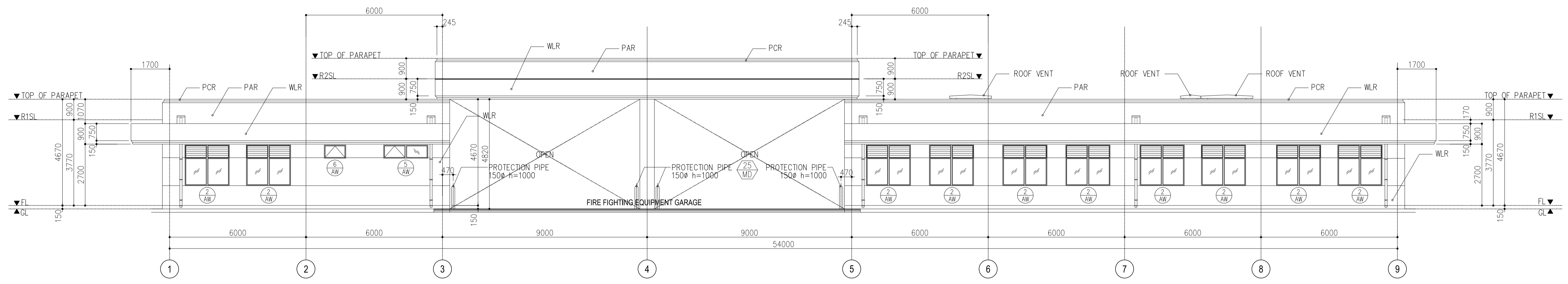
APPROVED:  
**JULIANITO G. BUCAYAN, JR.**  
 Undersecretary  
 for Project Implementation, DOTC

PROJECT TITLE:  
**NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT**  
 LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

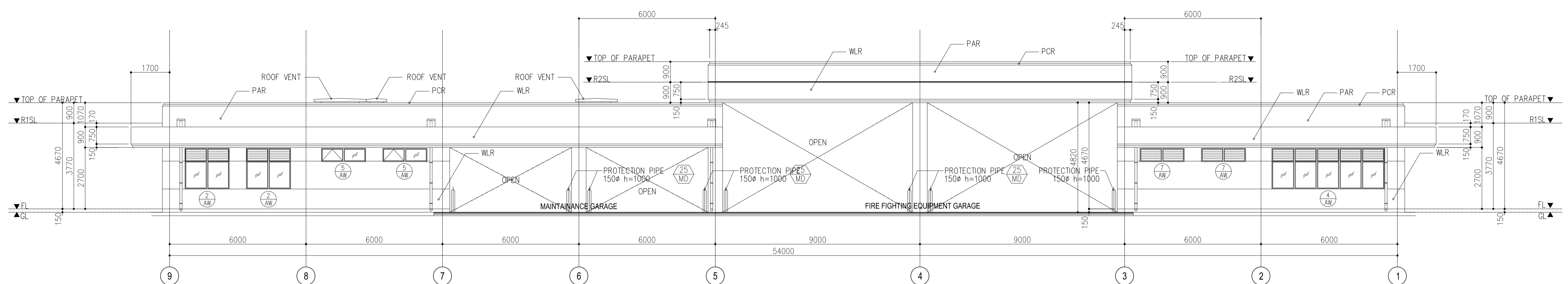
| DATE      | INDEX | AMENDMENTS | Prepared by | Checked by | Validated by |
|-----------|-------|------------|-------------|------------|--------------|
| JUNE 2013 |       |            | WIM         | HC         |              |

SHEET CONTENTS:  
 COMPONENT-4 BUILDING WORKS (B)  
 SUBCOMPONENT-4-4  
 (B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL ROOF DECK PLAN

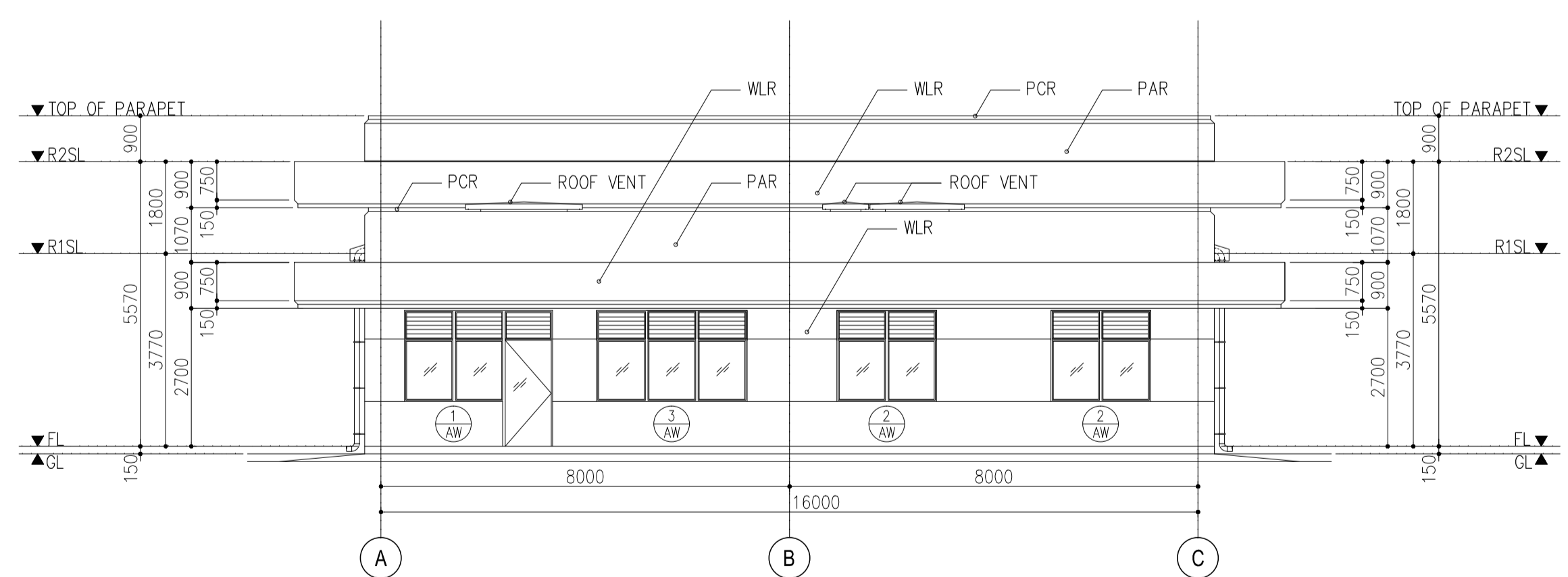
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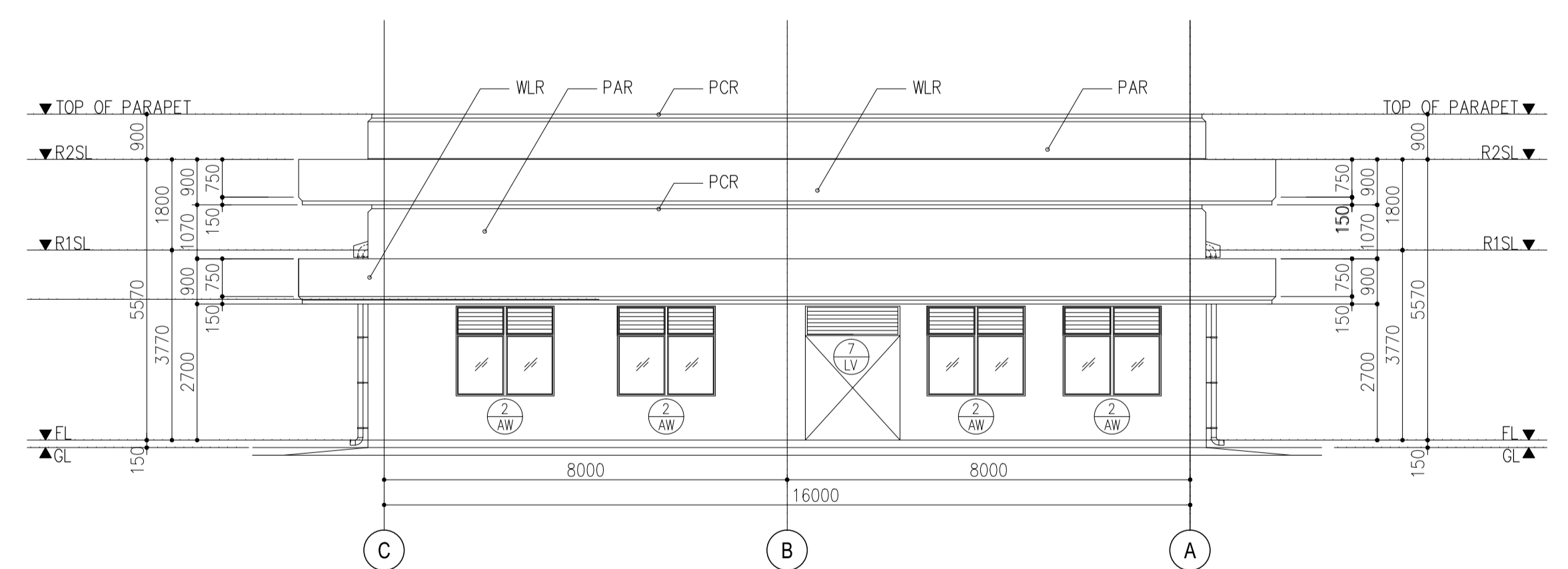
1 ELEVATION 1  
B4-4300-08 SCALE 1: 100 M.



2 ELEVATION 2  
B4-4300-08 SCALE 1: 100 M.



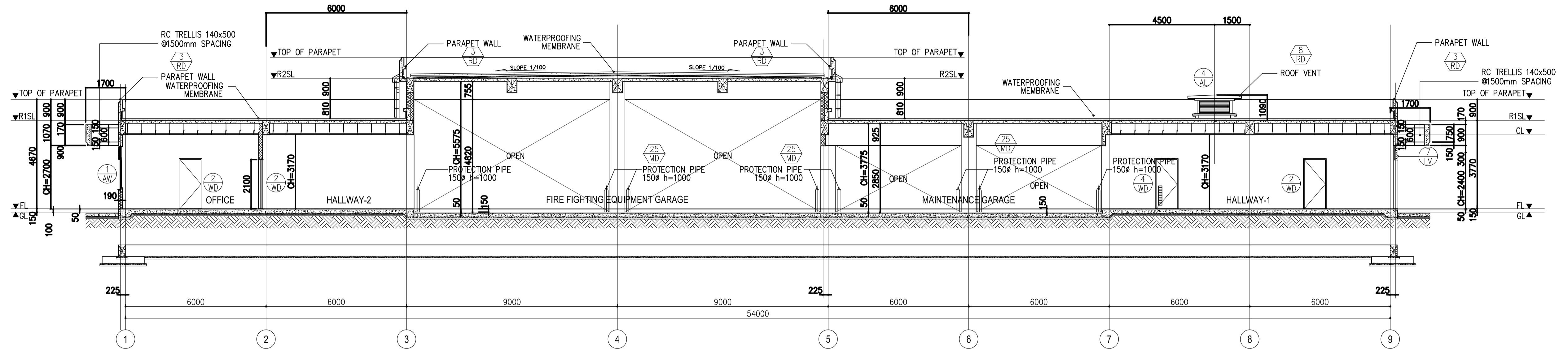
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B4-4300-08 SCALE 1: 100 M.



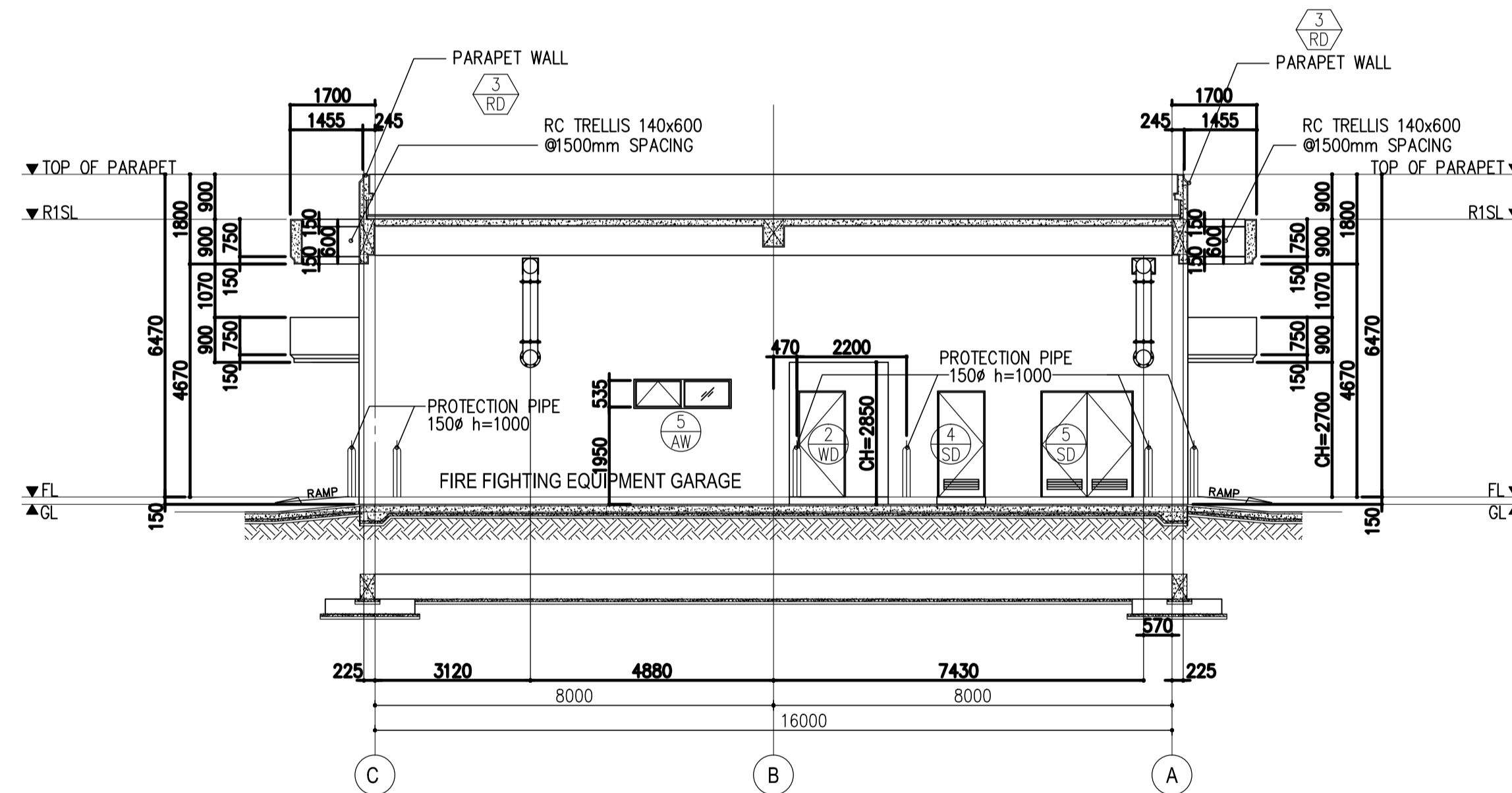
4 ELEVATION 4  
B4-4300-08 SCALE 1: 100 M.

|  |                                                                                                                                                                         |                                                                                                                                     |                                                                                                                     |                                                                                                        |                                                                   |                                                                                                                                                      |                                |                                                     |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|
|  | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR: 391137<br/>REG. NO.: 4623 DATE: MAY 9, 2013<br/>F.I.N. 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary<br/>for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary<br/>for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL ELEVATIONS | SHEET NO:<br><b>B4-4300-06</b> |                                                     |
|  | JICA DESIGN CONSULTANT JOINT VENTURE                                                                                                                                    | TADASHI AOI<br><small>Team Leader</small>                                                                                           | ILDEFONSO T. PATDU, JR.<br><small>Assistant Secretary<br/>for Project Implementation, DOTC</small>                  | JULIANITO G. BUCAYAN, JR.<br><small>Undersecretary<br/>for Project Implementation, DOTC</small>        | DATE: JUNE 2013                                                   | INDEX:                                                                                                                                               | AMENDMENTS:                    | Prepared by: WIM<br>Checked by: HC<br>Validated by: |

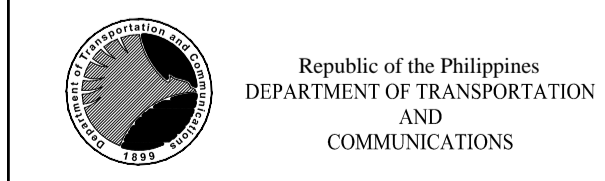
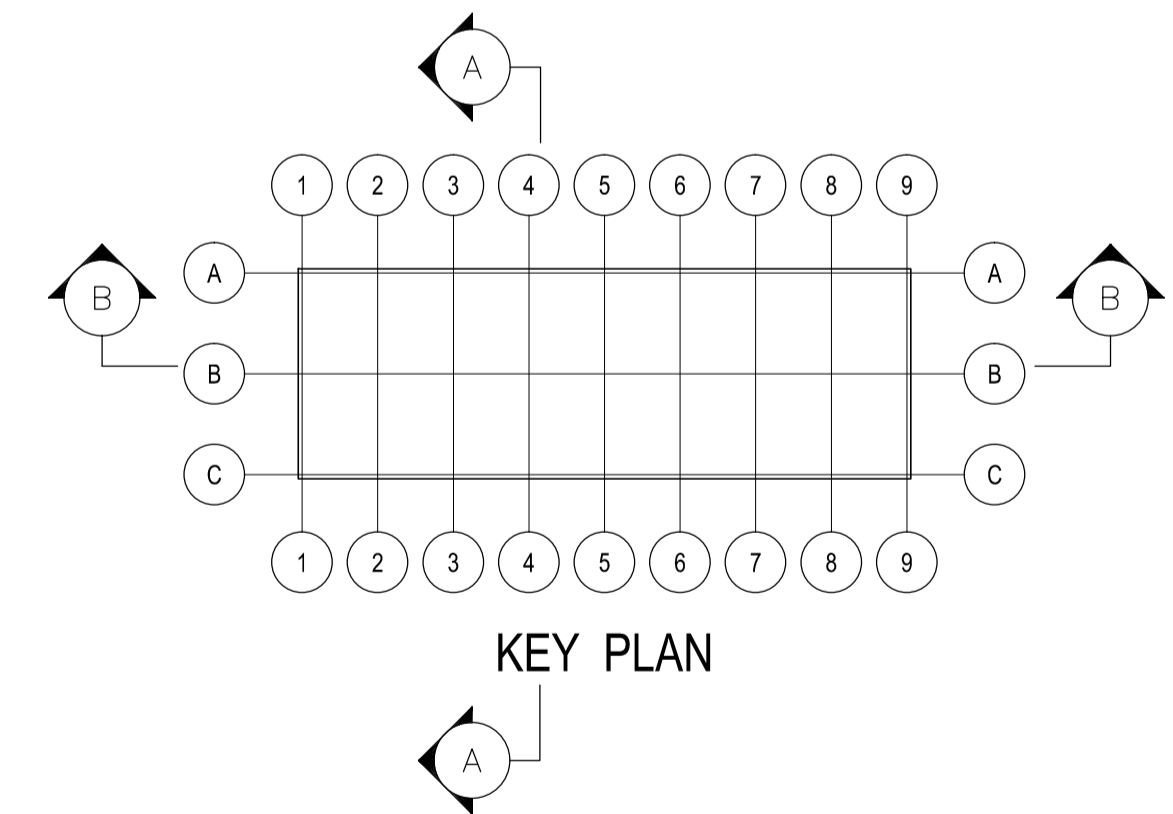




1 SECTION A-A  
B4-4300-07 SCALE 1: 100 M.



2 SECTION B-B  
B4-4300-07 SCALE 1: 100 M.



PREPARED BY:  
**WILLIAM I. MALLONGA**  
PROF: Architect PIR: 3911137  
REG. NO.: 4623 DATE: MAY 9, 2013  
T.I.N: 150-564-196 PLACE: MAKATI CITY

TADASHI AOI  
Team Leader

RECOMMENDING APPROVAL:  
**ILDEFONSO T. PATDU, JR.**  
Assistant Secretary  
for Project Implementation, DOTC

APPROVED:  
**JULIANITO G. BUCAYAN, JR.**  
Undersecretary  
for Project Implementation, DOTC

PROJECT TITLE:  
**NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT**

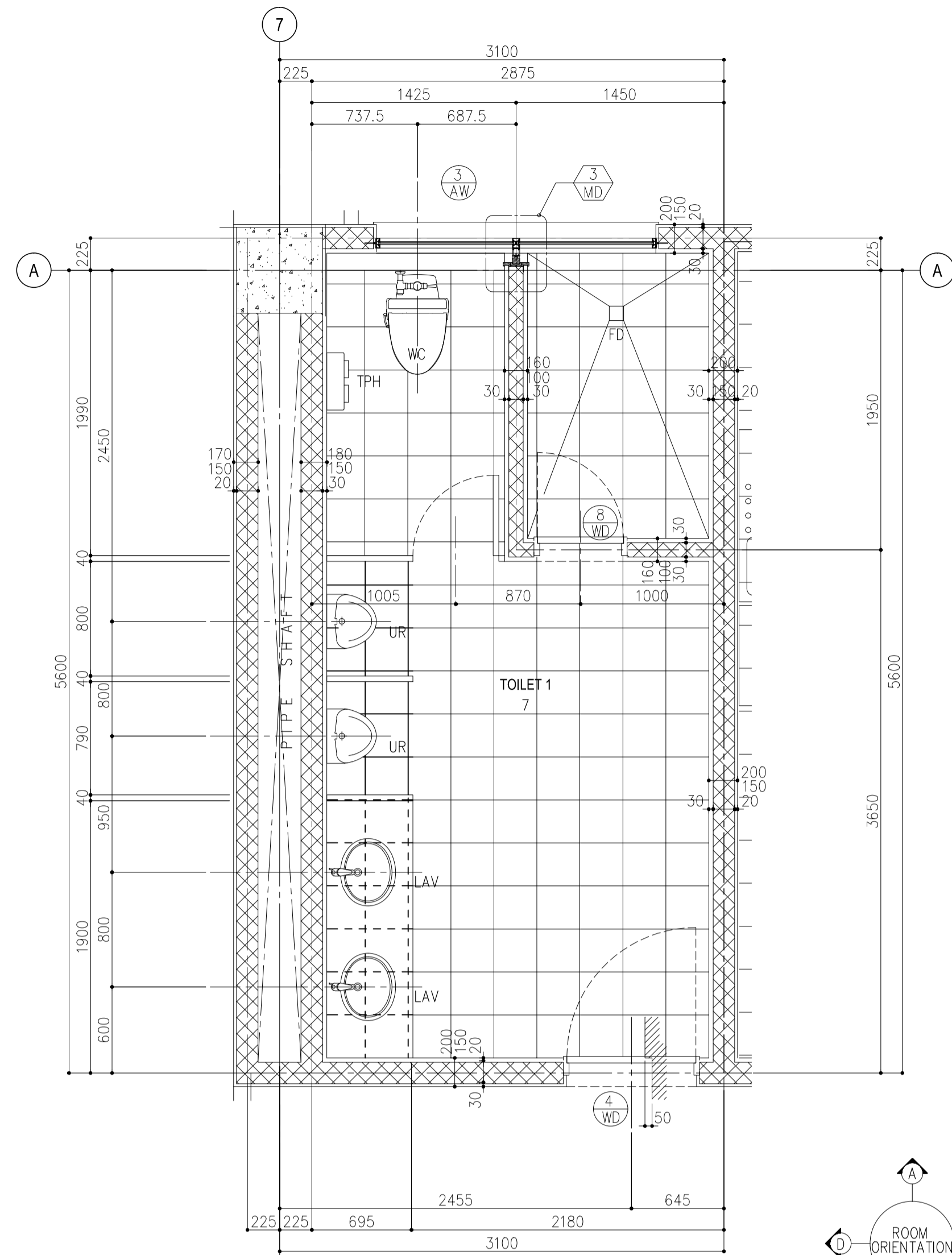
LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

| DATE      | INDEX | AMENDMENTS | Prepared by | Checked by | Validated by |
|-----------|-------|------------|-------------|------------|--------------|
| JUNE 2013 |       |            | WIM         | HC         |              |

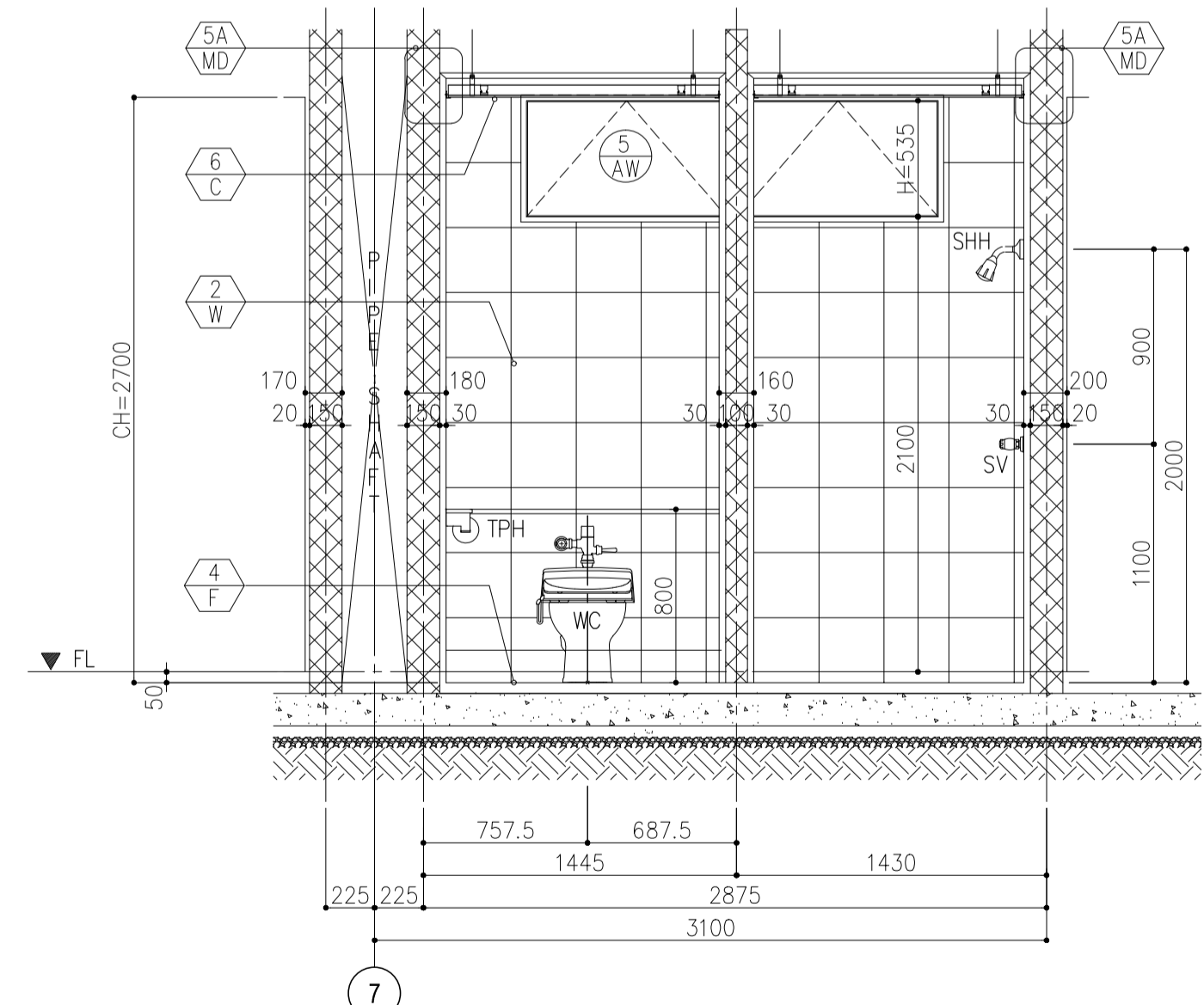
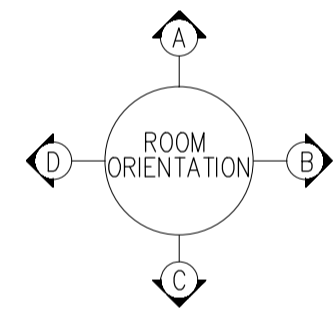
SHEET CONTENTS:  
COMPONENT-4 BUILDING WORKS (B)  
SUBCOMPONENT-4-4  
(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL SECTIONS

SHEET NO:  
**B4-4300-07**

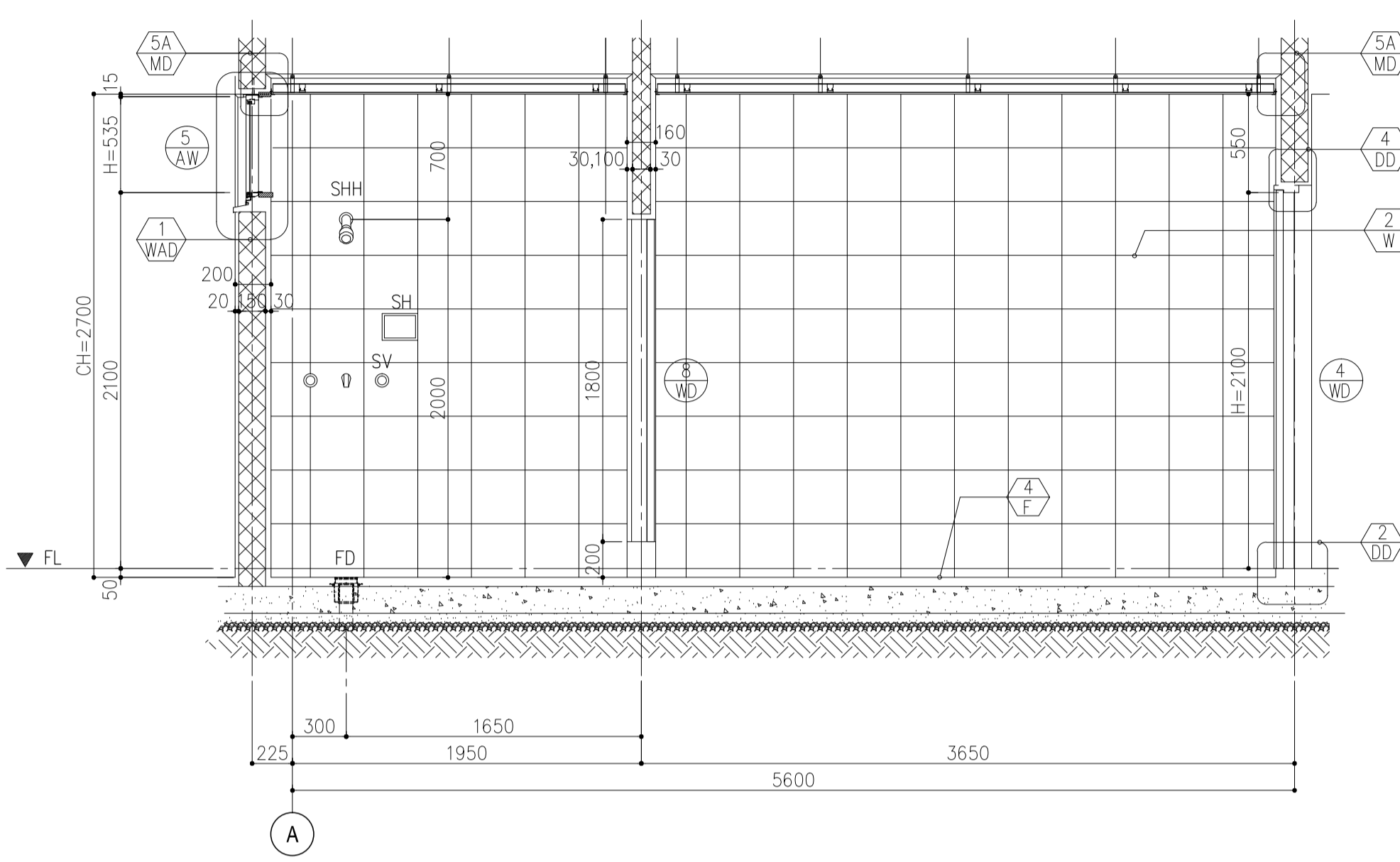
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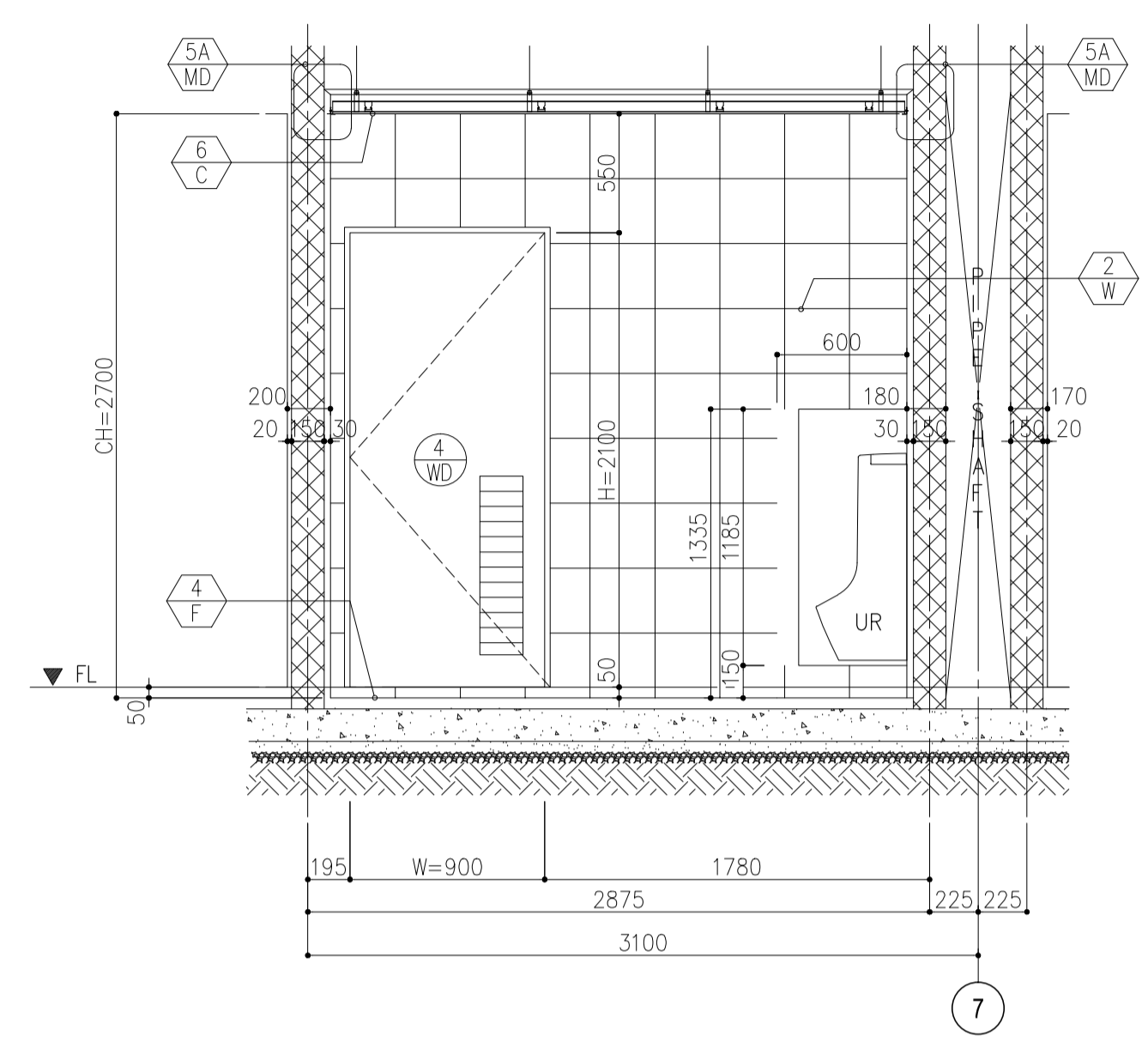
**1 TOILET-1 DETAIL PLAN**  
B4-4300-08 SCALE : 1:30 MTS.



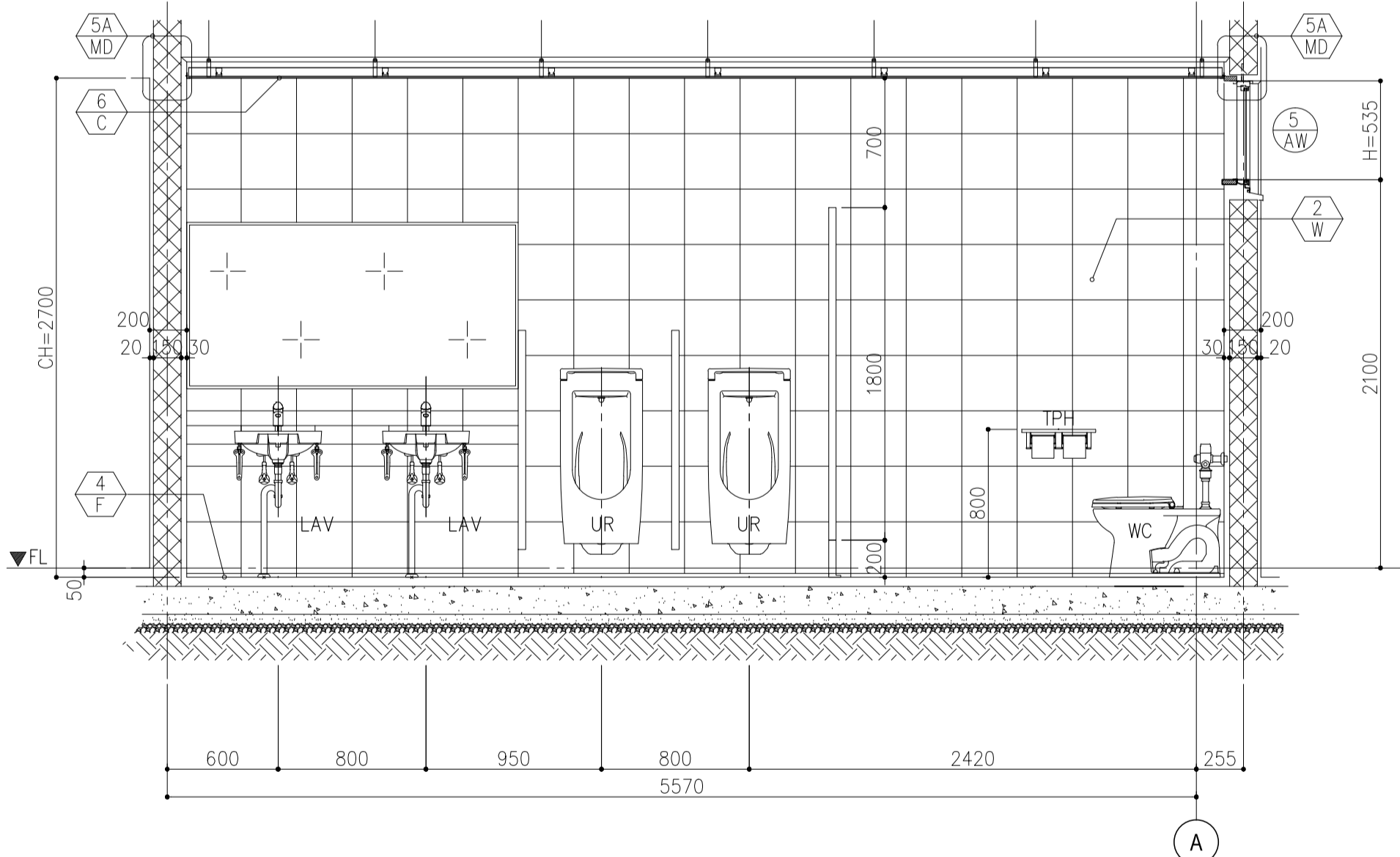
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B4-4300-08 SCALE : 1:30 MTS.



**3 ELEVATION B**  
B4-4300-08 SCALE : 1:30 MTS.



**4 ELEVATION C**  
B4-4300-08 SCALE : 1:30 MTS.

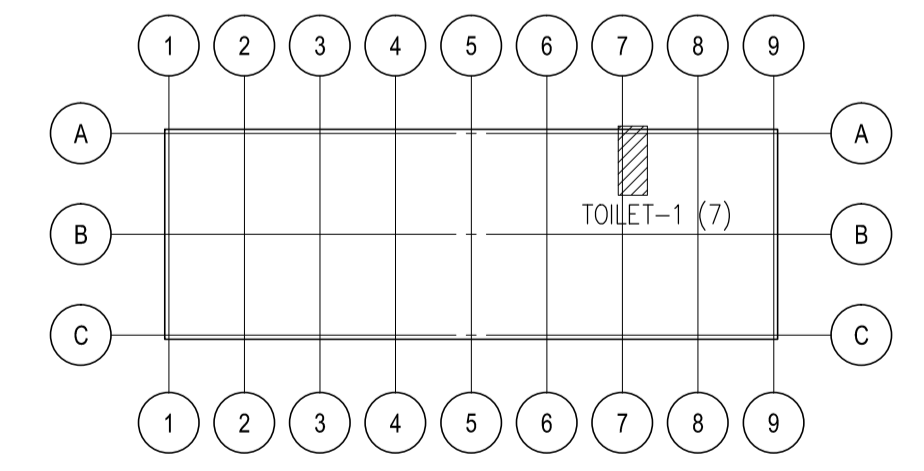


**5 ELEVATION D**  
B4-4300-08 SCALE : 1:30 MTS.

**LEGEND**

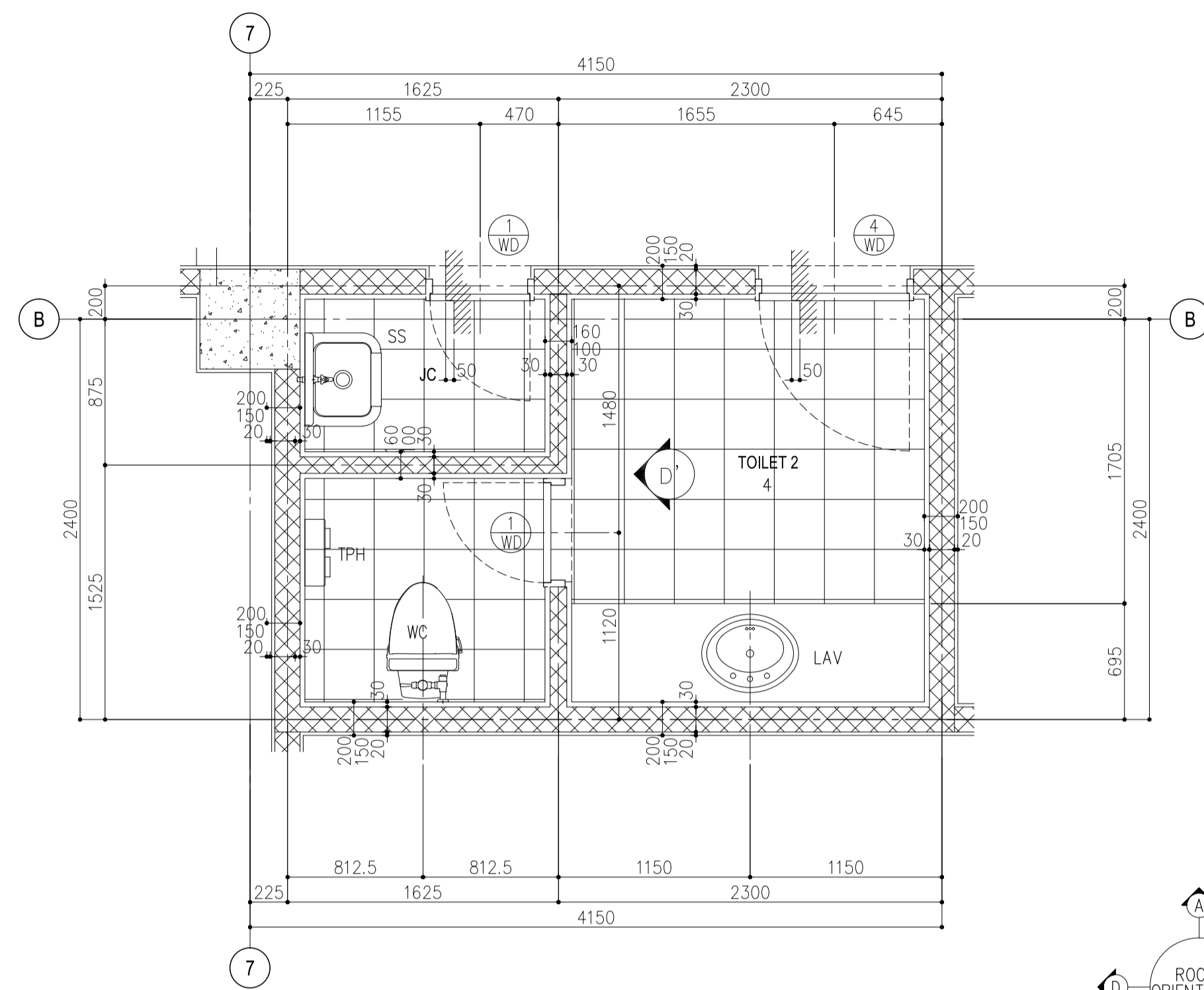
- FD FLOOR DRAIN
- LAV LAVATORY
- SH SOAP HOLDER
- SHH SHOWER HEAD
- SV SHOWER VALVE
- SS SLOPE SINK
- TPH TOILET PAPER HOLDER
- UR URINAL
- WC WATER CLOSET

| TYPICAL TOILET FINISHING SCHEDULE |                                                  |
|-----------------------------------|--------------------------------------------------|
| FLOORING                          | F4 300x300x8 CERAMIC TILE                        |
| WALL                              | W2 300x300x8 CERAMIC TILE                        |
| CEILING                           | C6 t=12 ACOUSTIC ROCKWALL PANEL ON t=9 GYPSUM BD |

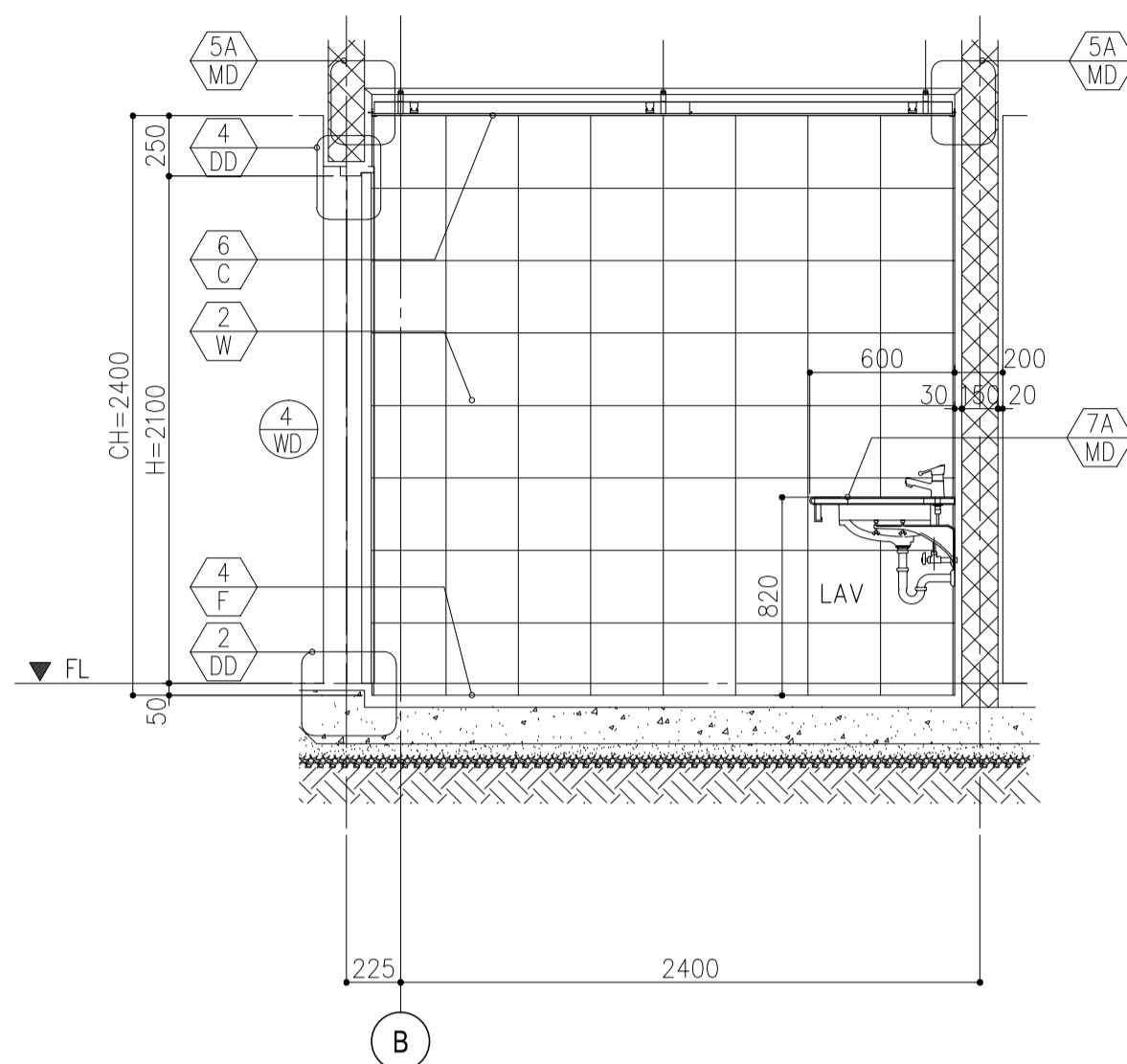
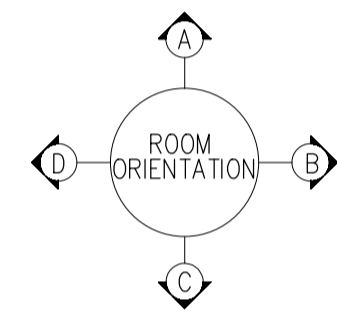


**KEY PLAN**

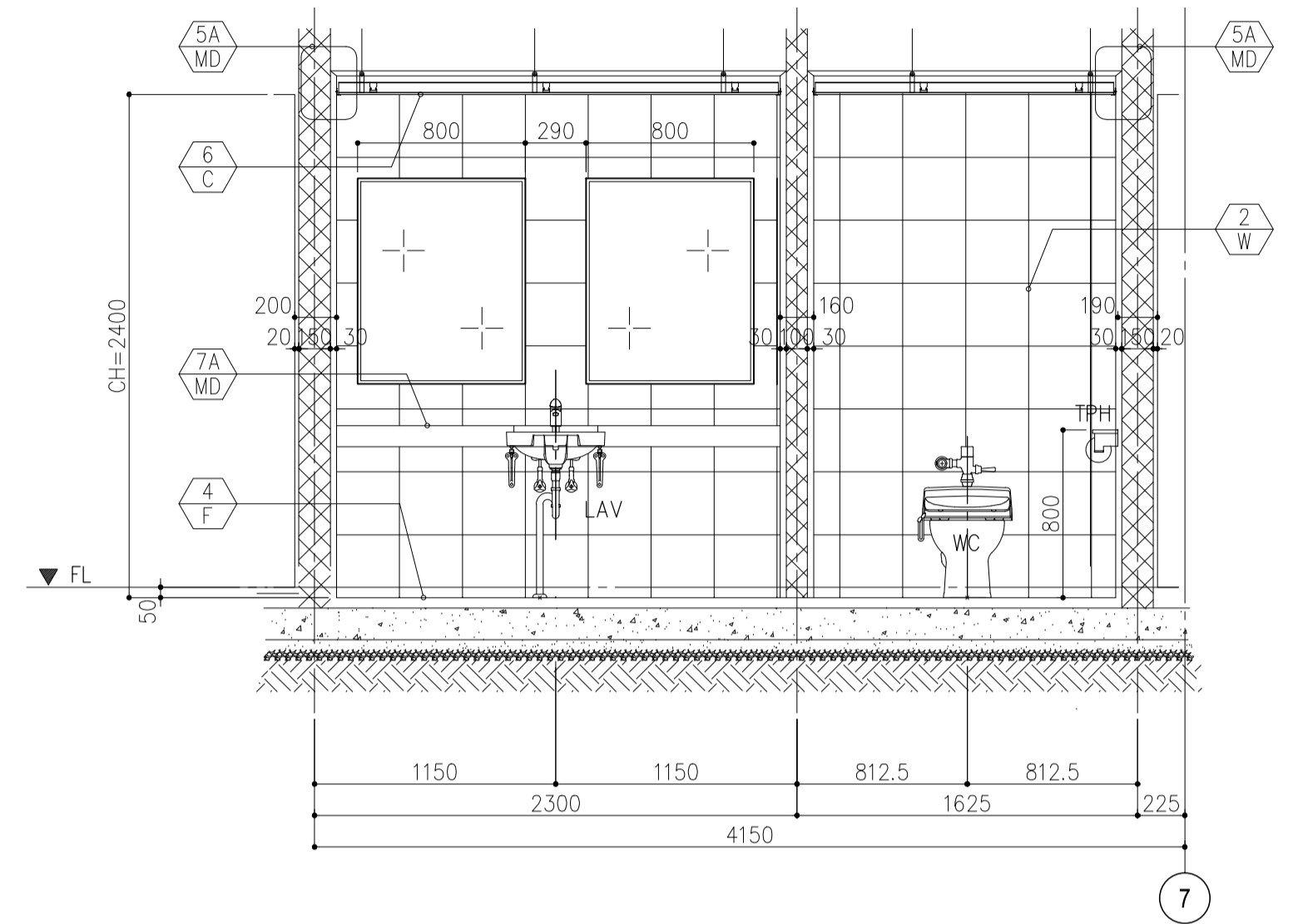
|  |                                                                                                                         |                                        |                                                                                                                                                                                          |                                                                                                                                 |                                                                                                                 |                                                                                                        |                                                                   |                                                                                                                                                                |                                                               |
|--|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
|  | Republic of the Philippines<br>DEPARTMENT OF TRANSPORTATION<br>AND COMMUNICATIONS                                       | JAPAN INTERNATIONAL COOPERATION AGENCY | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR: 3911137<br/>         REG. NO.: 4623 DATE: MAY 9, 2013<br/>         TIN: 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL TOILET 1 DETAIL PLAN | SHEET NO:<br><b>B4-4300-08</b><br>DRAWING SCALE:<br>1:30 MTS. |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD. |                                        | TADASHI AOI<br>Team Leader                                                                                                                                                               |                                                                                                                                 | DATE INDEX AMENDMENTS                                                                                           |                                                                                                        | Prepared by: WIM HC<br>Checked by: Validated by:                  |                                                                                                                                                                |                                                               |



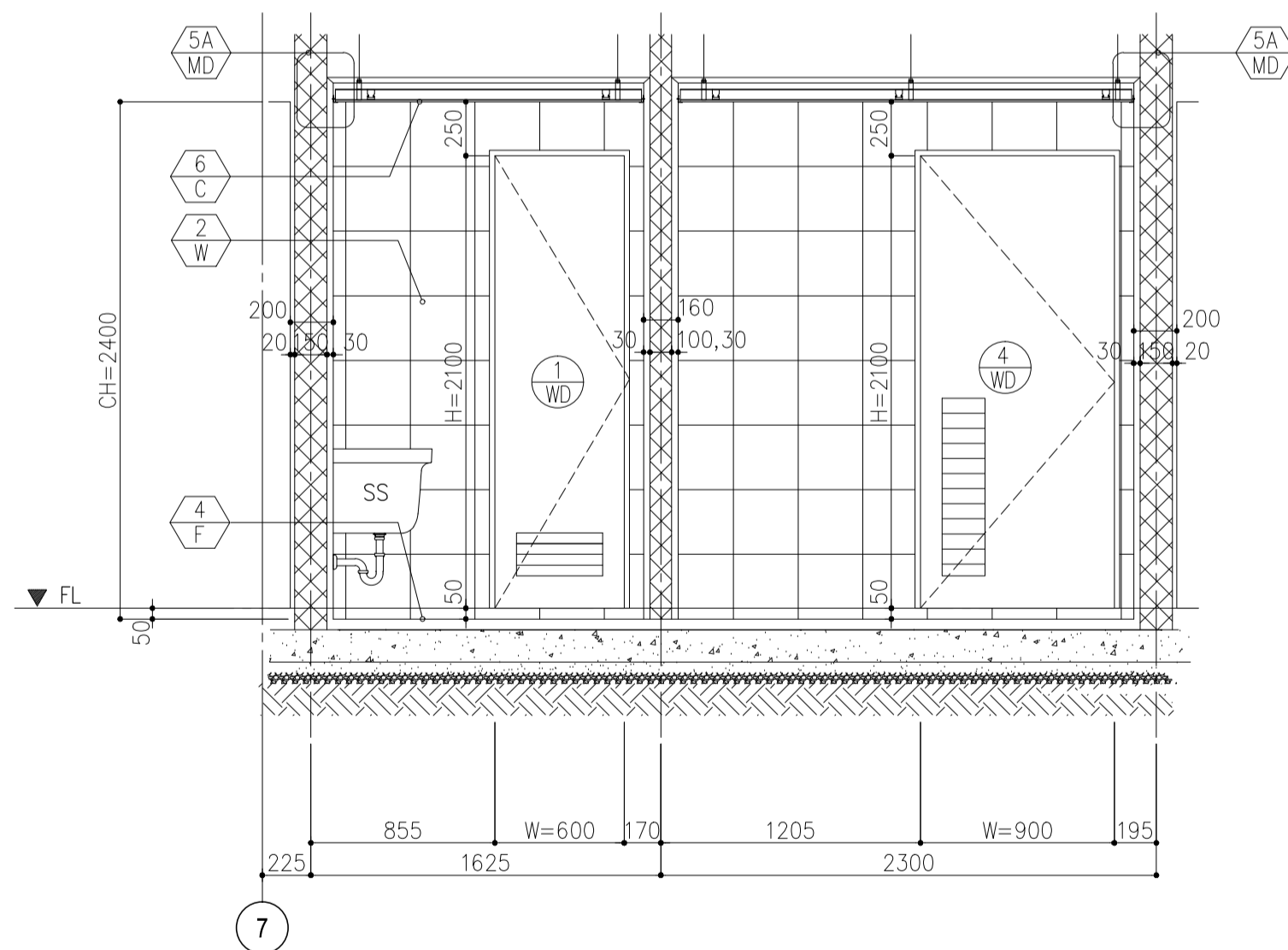
**1 TOILET-2 DETAIL PLAN**  
B4-4300-09 SCALE : 1:30 MTS.



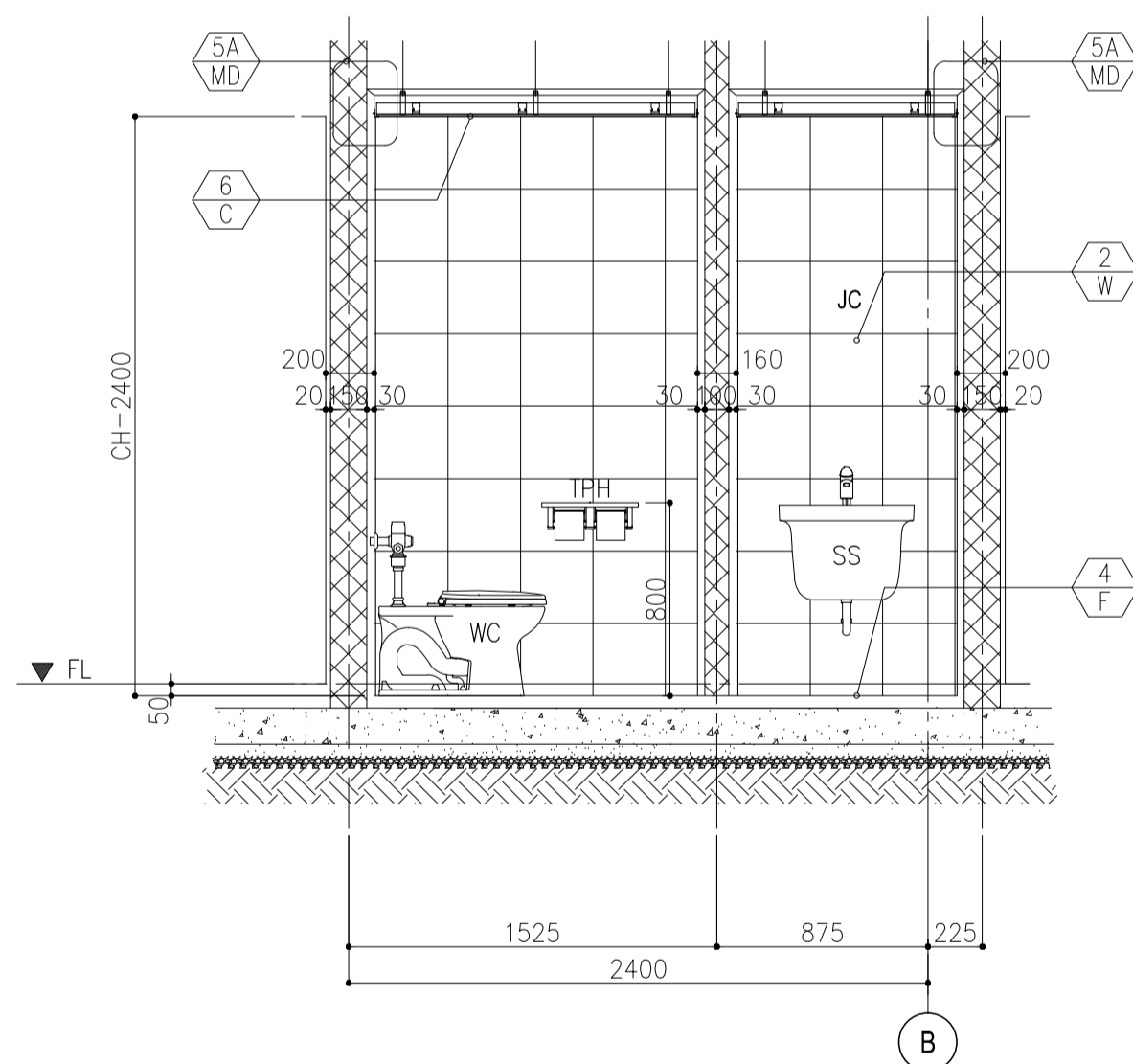
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B4-4300-09 SCALE : 1:30 MTS.



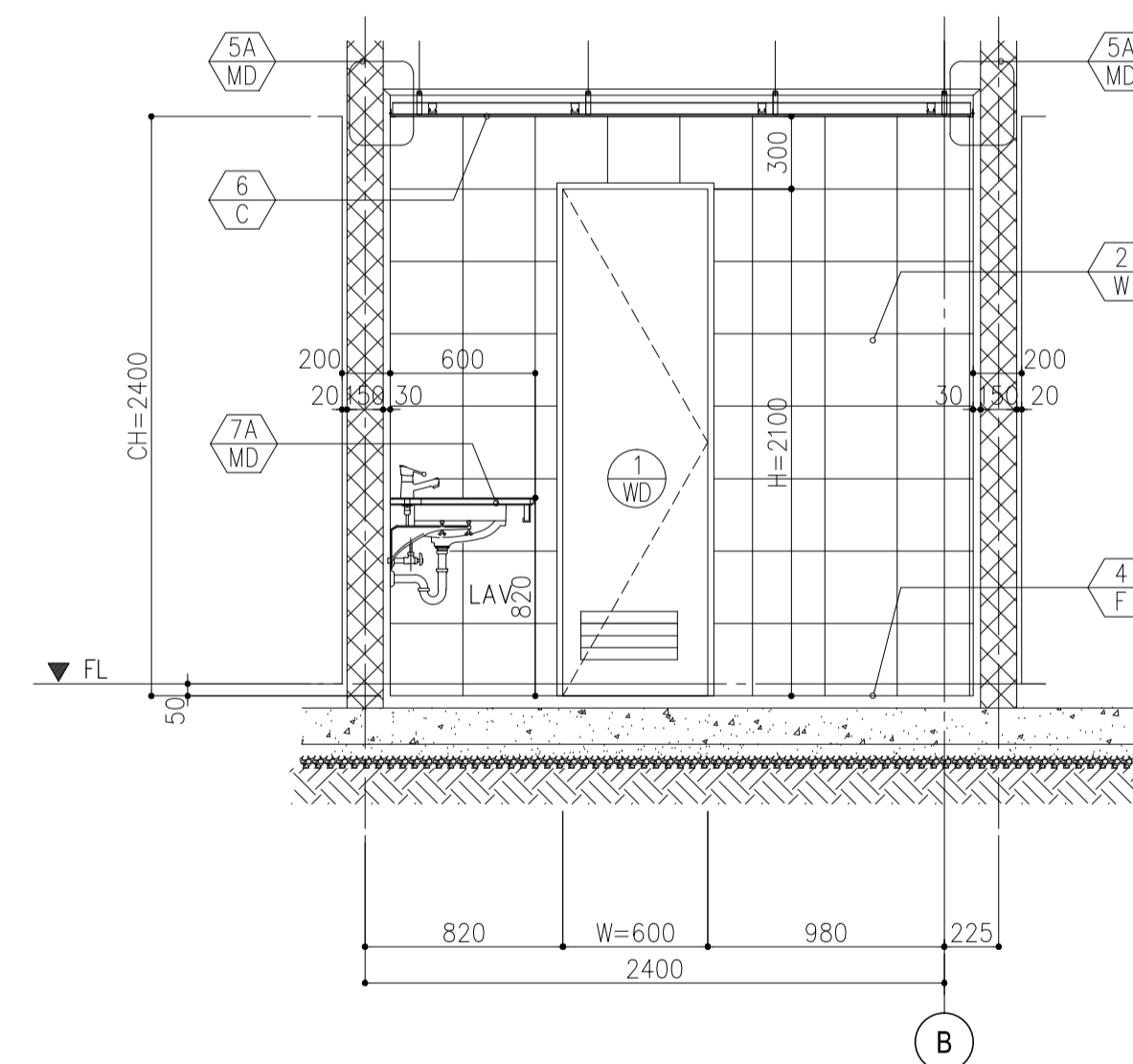
**4 ELEVATION C**  
B4-4300-09 SCALE : 1:30 MTS.



**2 ELEVATION A**  
B4-4300-09 SCALE : 1:30 MTS.



**5 ELEVATION D**  
B4-4300-09 SCALE : 1:30 MTS.

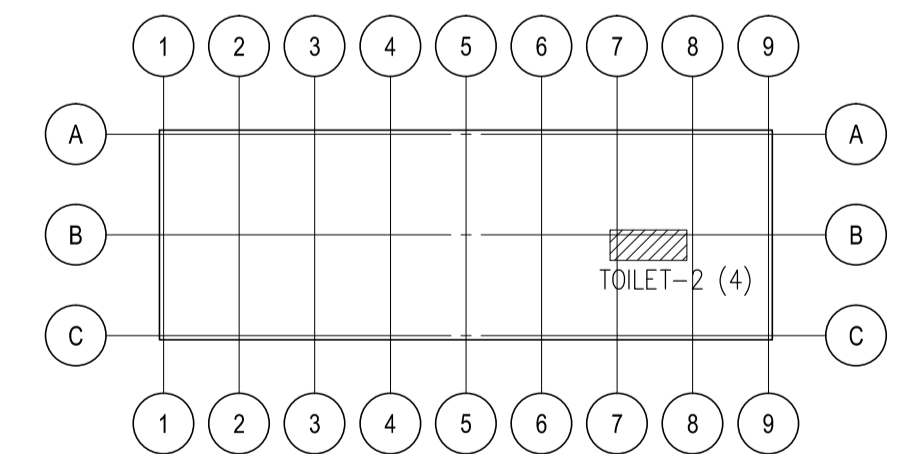


**6 ELEVATION D'**  
B4-4300-09 SCALE : 1:30 MTS.

**LEGEND**

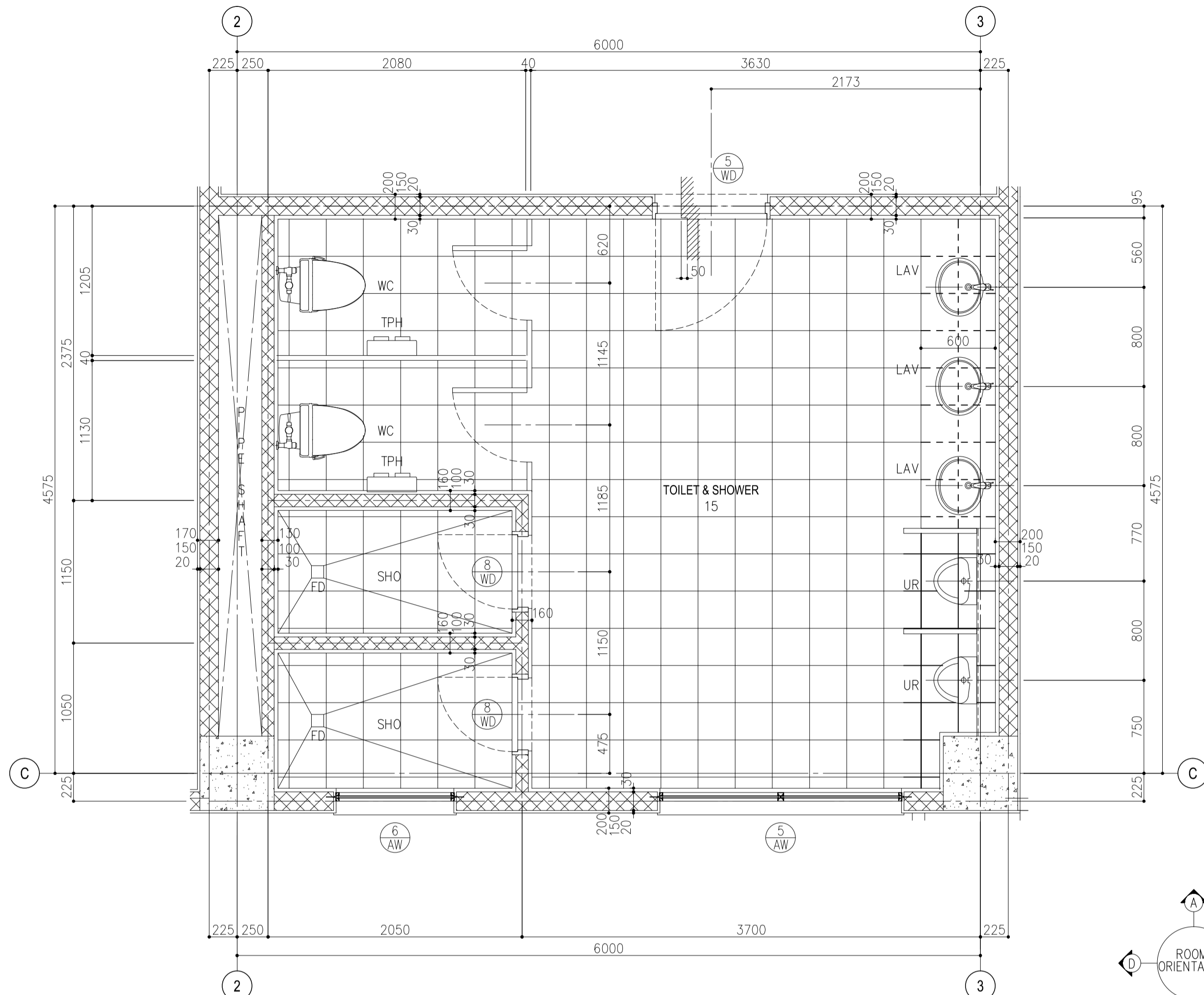
|     |             |     |                     |
|-----|-------------|-----|---------------------|
| FD  | FLOOR DRAIN | TPH | TOILET PAPER HOLDER |
| LAV | LAVATORY    | UR  | URINAL              |
| SS  | SLOPE SINK  | WC  | WATER CLOSET        |

| TYPICAL TOILET FINISHING SCHEDULE |    |           |                                          |
|-----------------------------------|----|-----------|------------------------------------------|
| FLOORING                          | F4 | 300x300x8 | CERAMIC TILE                             |
| WALL                              | W2 | 300x300x8 | CERAMIC TILE                             |
| CEILING                           | C6 | t=12      | ACOUSTIC ROCKWALL PANEL ON t=9 GYPSUM BD |

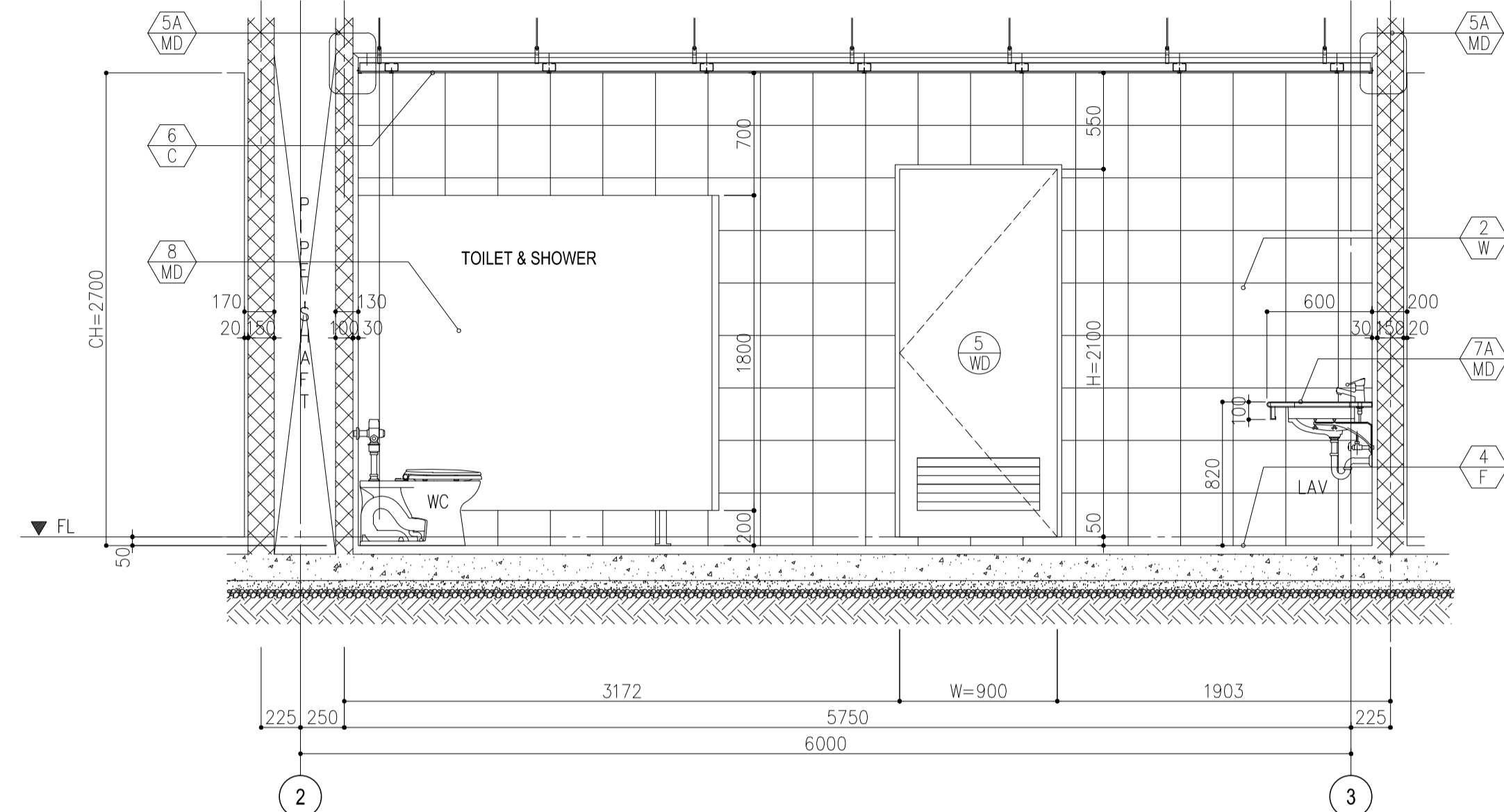
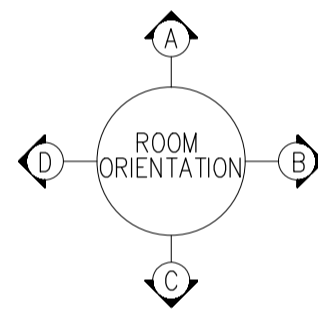


**KEY PLAN**

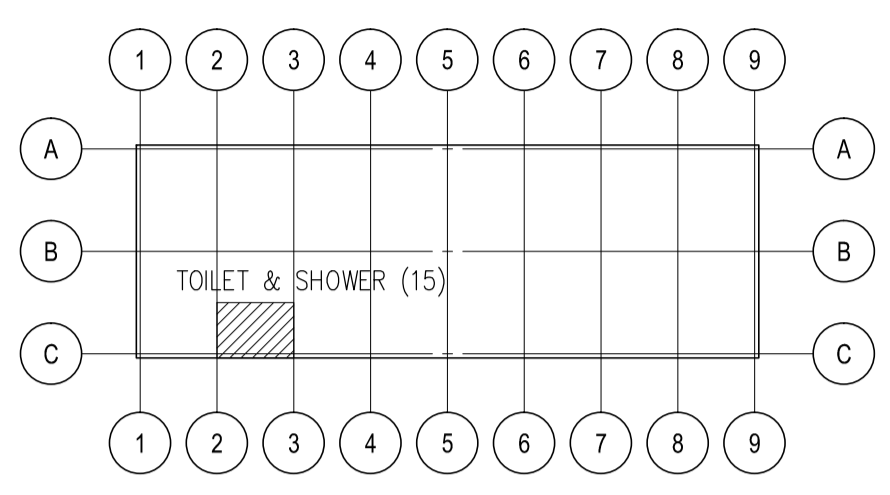
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|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|
|  | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR. 3911137<br/>REG. NO.: 4623 DATE: MAY 9, 2013<br/>TIN. 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL TOILET 2 DETAIL PLAN | SHEET NO:<br><b>B4-4300-09</b> |                                                     |
|  | JICA DESIGN CONSULTANT JOINT VENTURE                                                                                                                                   | TADASHI AOI<br><small>Team Leader</small>                                                                                       | ILDEFONSO T. PATDU, JR.<br><small>Assistant Secretary for Project Implementation, DOTC</small>                  | JULIANITO G. BUCAYAN, JR.<br><small>Undersecretary for Project Implementation, DOTC</small>            | DATE: JUNE 2013                                                   | INDEX:                                                                                                                                                         | AMENDMENTS:                    | Prepared by: WIM<br>Checked by: HC<br>Validated by: |



1 TOILET DETAIL PLAN  
B4-4300-10 SCALE : 1:30 MTS.



2 ELEVATION A  
B4-4300-10 SCALE : 1:30 MTS.

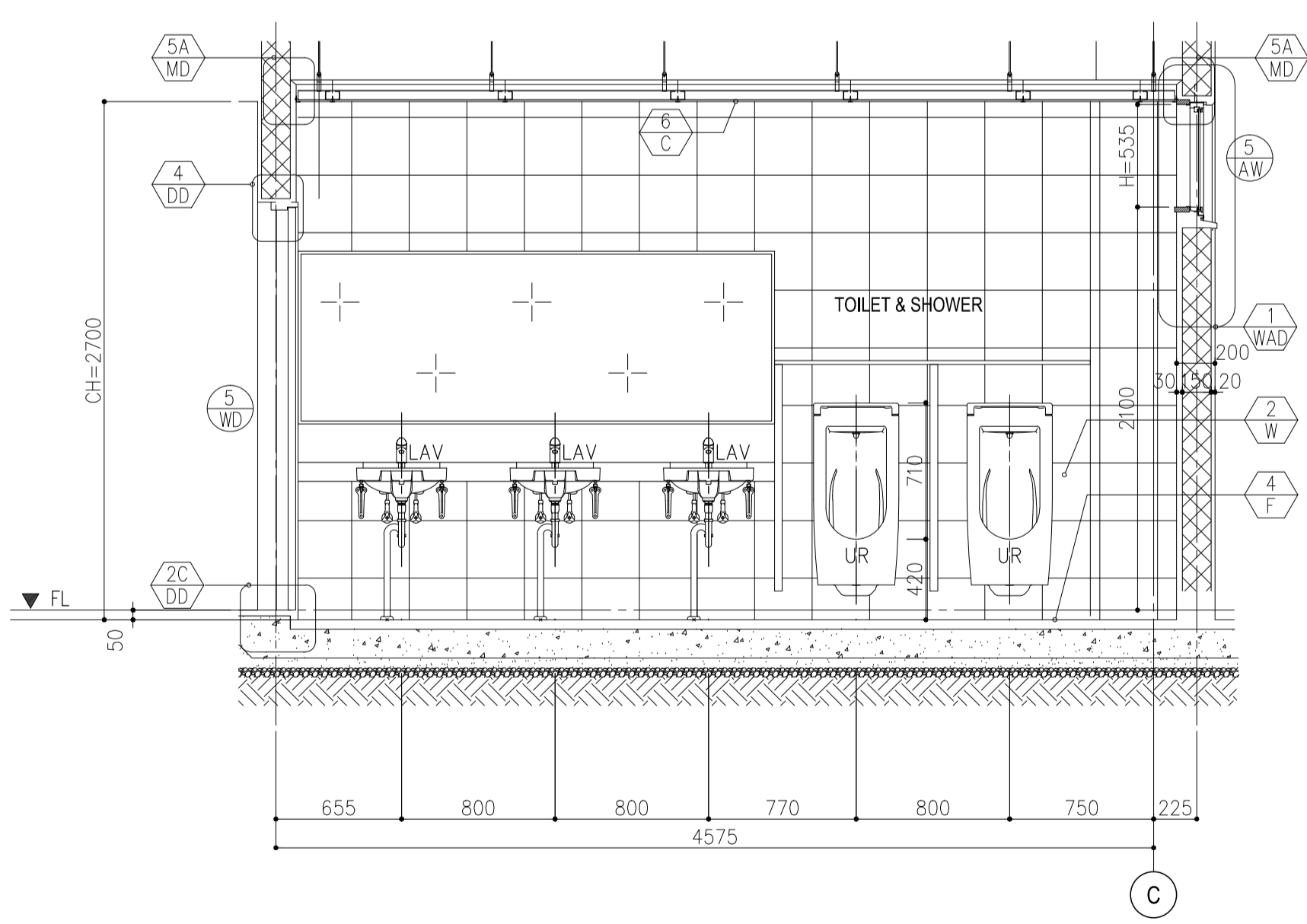


KEY PLAN

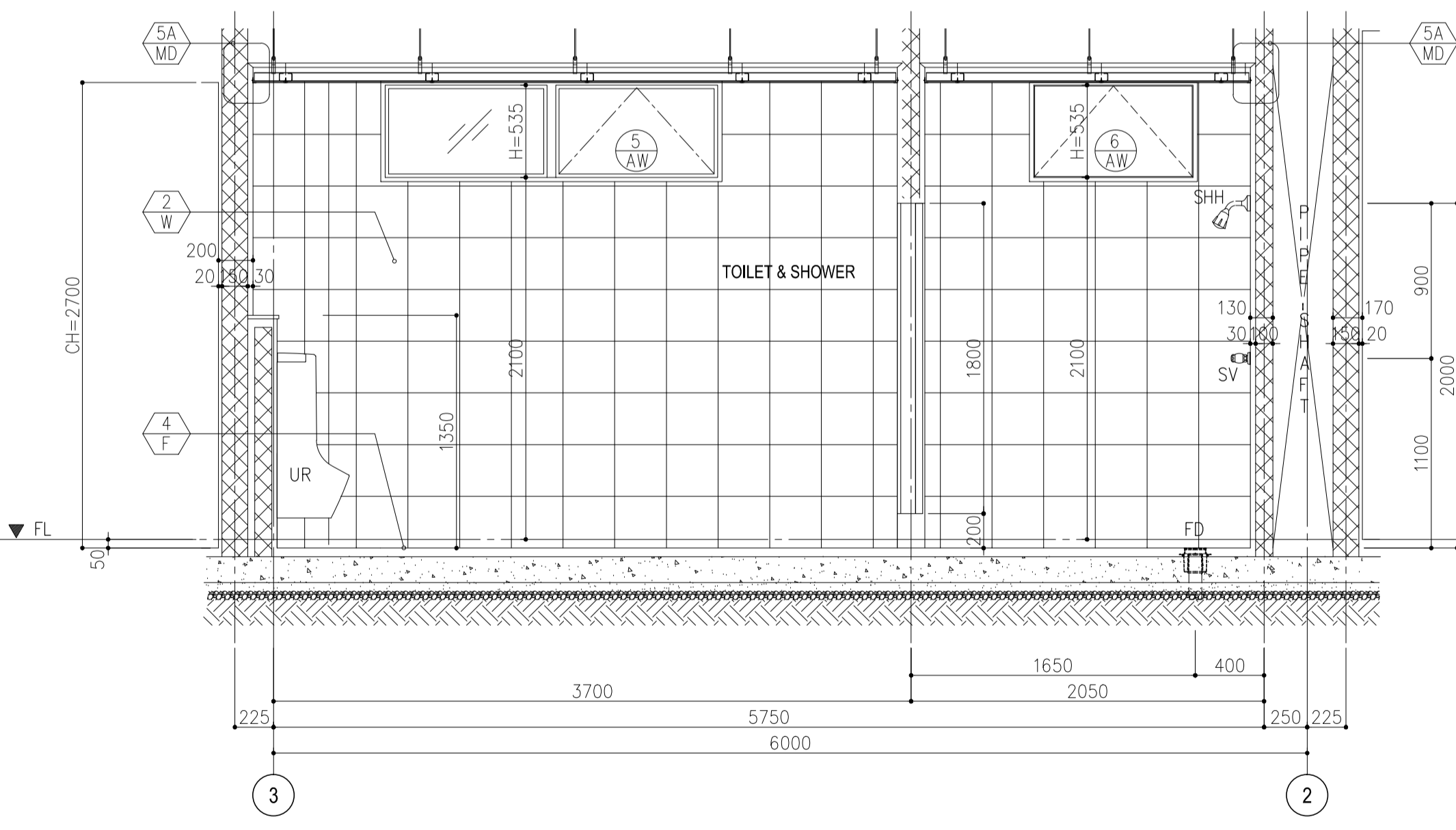
LEGEND

|     |              |     |                     |
|-----|--------------|-----|---------------------|
| FD  | FLOOR DRAIN  | SS  | SLOPE SINK          |
| LAV | LAVATORY     | TPH | TOILET PAPER HOLDER |
| SH  | SOAP HOLDER  | UR  | URINAL              |
| SHH | SHOWER HEAD  | WC  | WATER CLOSET        |
| SV  | SHOWER VALVE |     |                     |

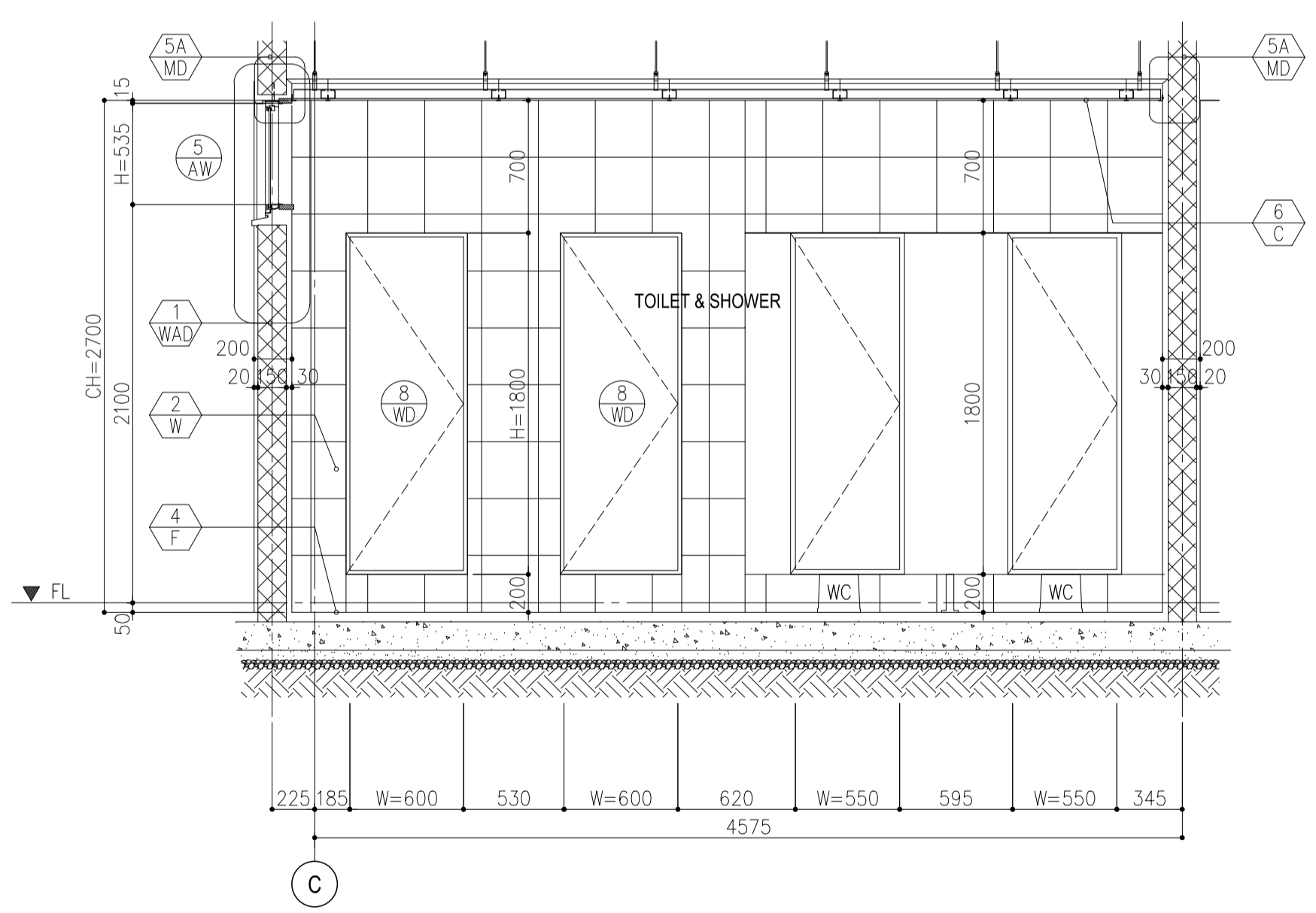
| TYPICAL TOILET FINISHING SCHEDULE |    |                                               |
|-----------------------------------|----|-----------------------------------------------|
| FLOORING                          | F4 | 300x300x8 CERAMIC TILE                        |
| WALL                              | W2 | 300x300x8 CERAMIC TILE                        |
| CEILING                           | C6 | t=12 ACOUSTIC ROCKWALL PANEL ON t=9 GYPSUM BD |



3 ELEVATION B  
B4-4300-10 SCALE : 1:30 MTS.

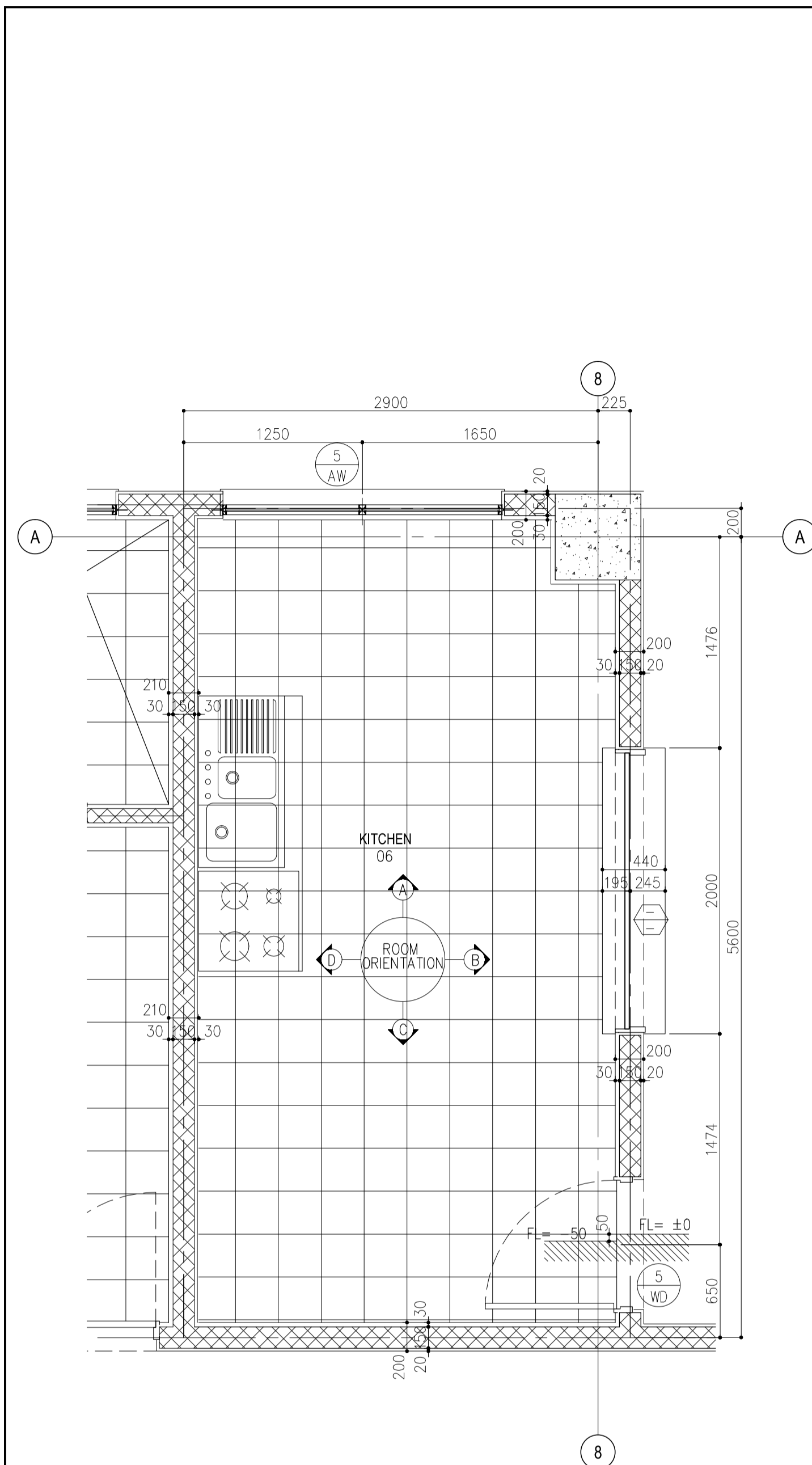


4 ELEVATION C  
B4-4300-10 SCALE : 1:30 MTS.

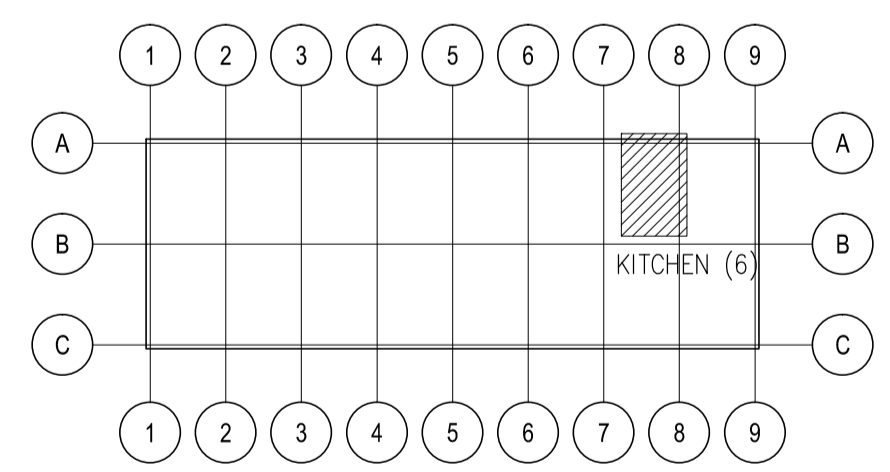


5 ELEVATION D  
B4-4300-10 SCALE : 1:30 MTS.

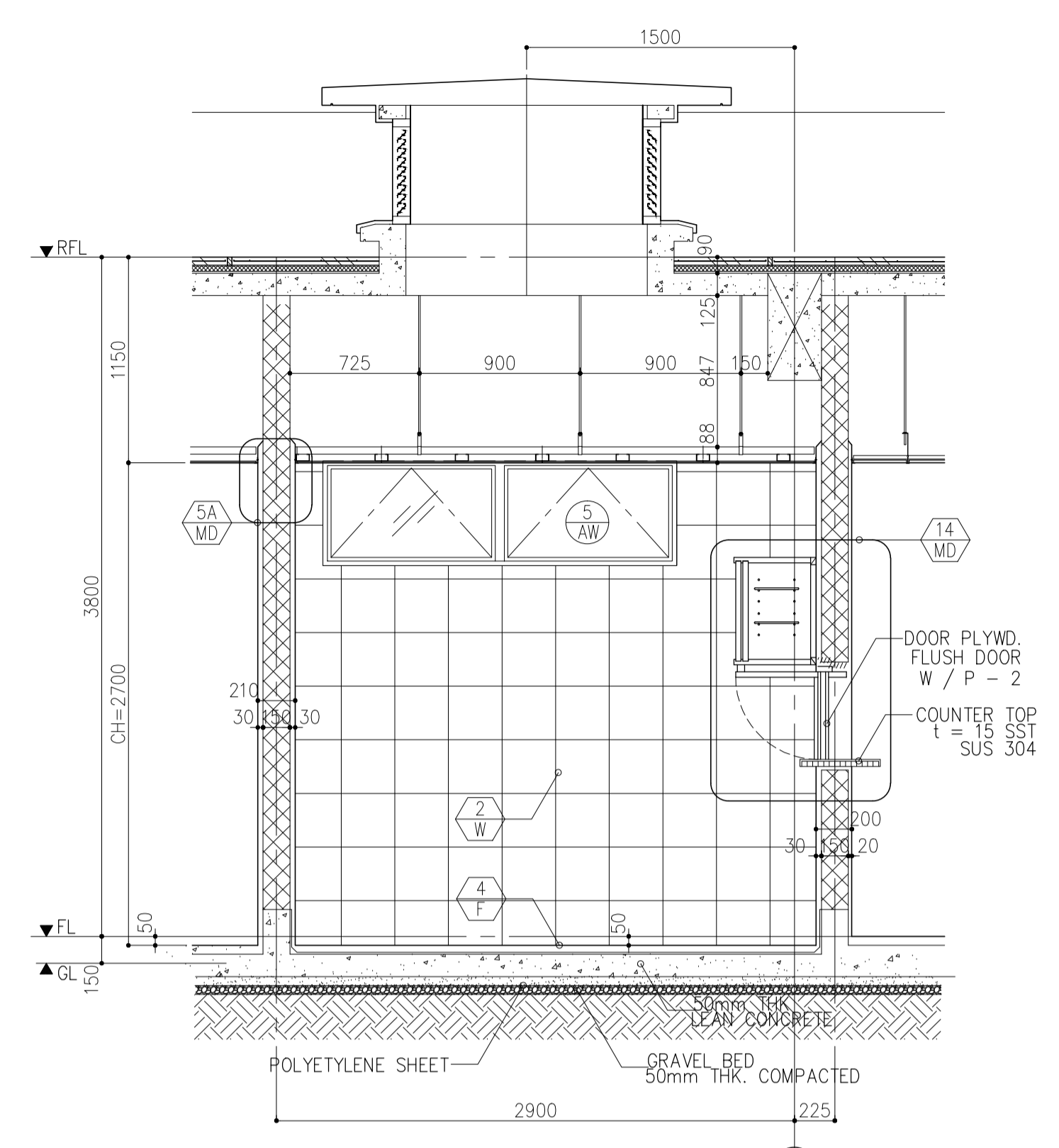
|  |                                                                                                                                                                        |                                                                                                                                 |                                                                                                                 |                                                                                                                                                           |                                                                                                                                                                         |                                                               |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
|  | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR: 3911137<br/>REG. NO.: 4623 DATE: MAY 9, 2013<br/>TIN: 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary for Project Implementation, DOTC</small> | <b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b><br>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL TOILET 3 & SHOWER DETAIL PLAN | SHEET NO:<br><b>B4-4300-10</b><br>DRAWING SCALE:<br>1:30 MTS. |
|  | JICA DESIGN CONSULTANT JOINT VENTURE                                                                                                                                   |                                                                                                                                 |                                                                                                                 |                                                                                                                                                           | DATE INDEX AMENDMENTS Prepared by Checked by Validated by                                                                                                               |                                                               |



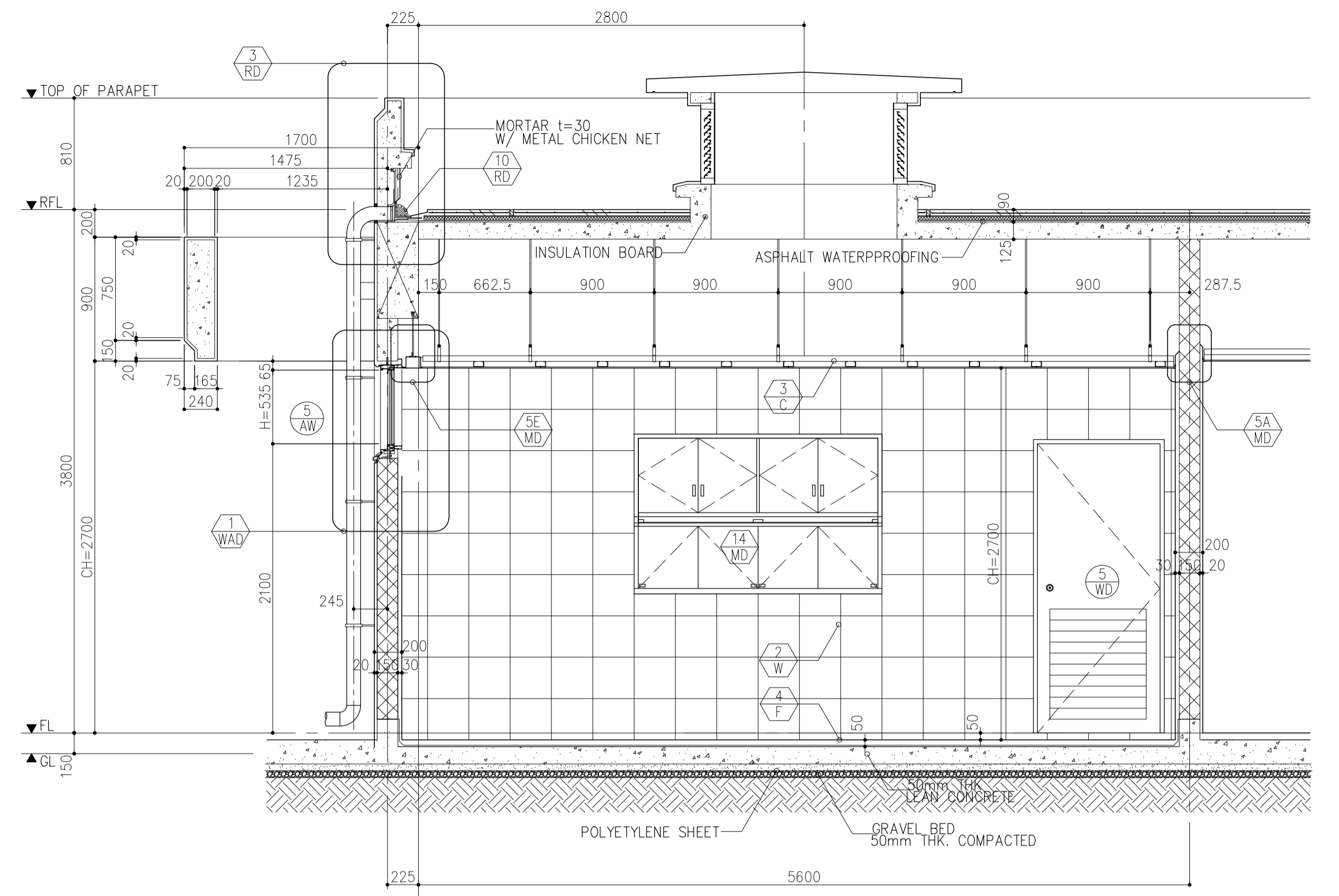
**1 KITCHEN DETAIL PLAN**  
B4-4300-11 SCALE : 1:30 MTS.



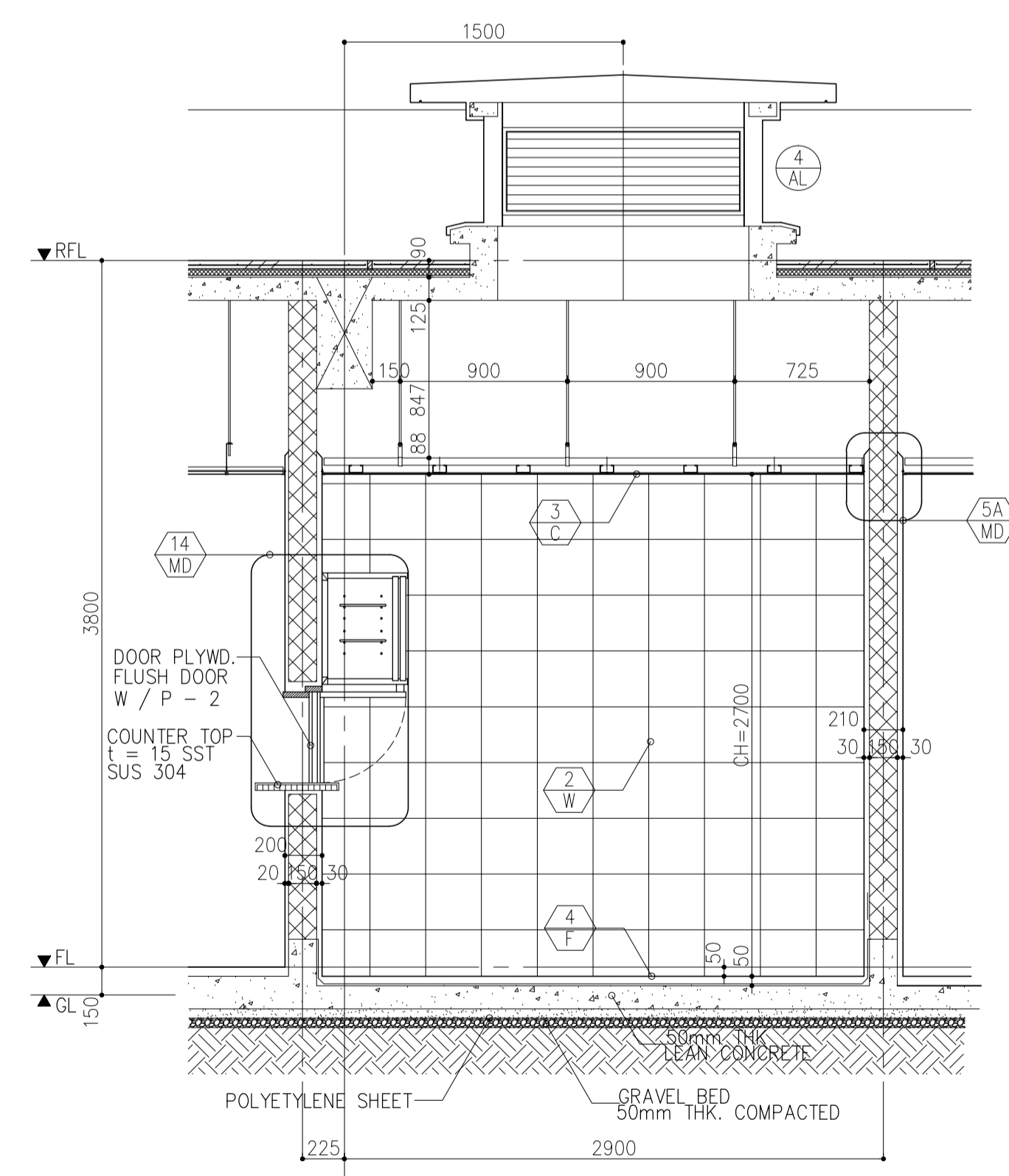
**KEY PLAN**



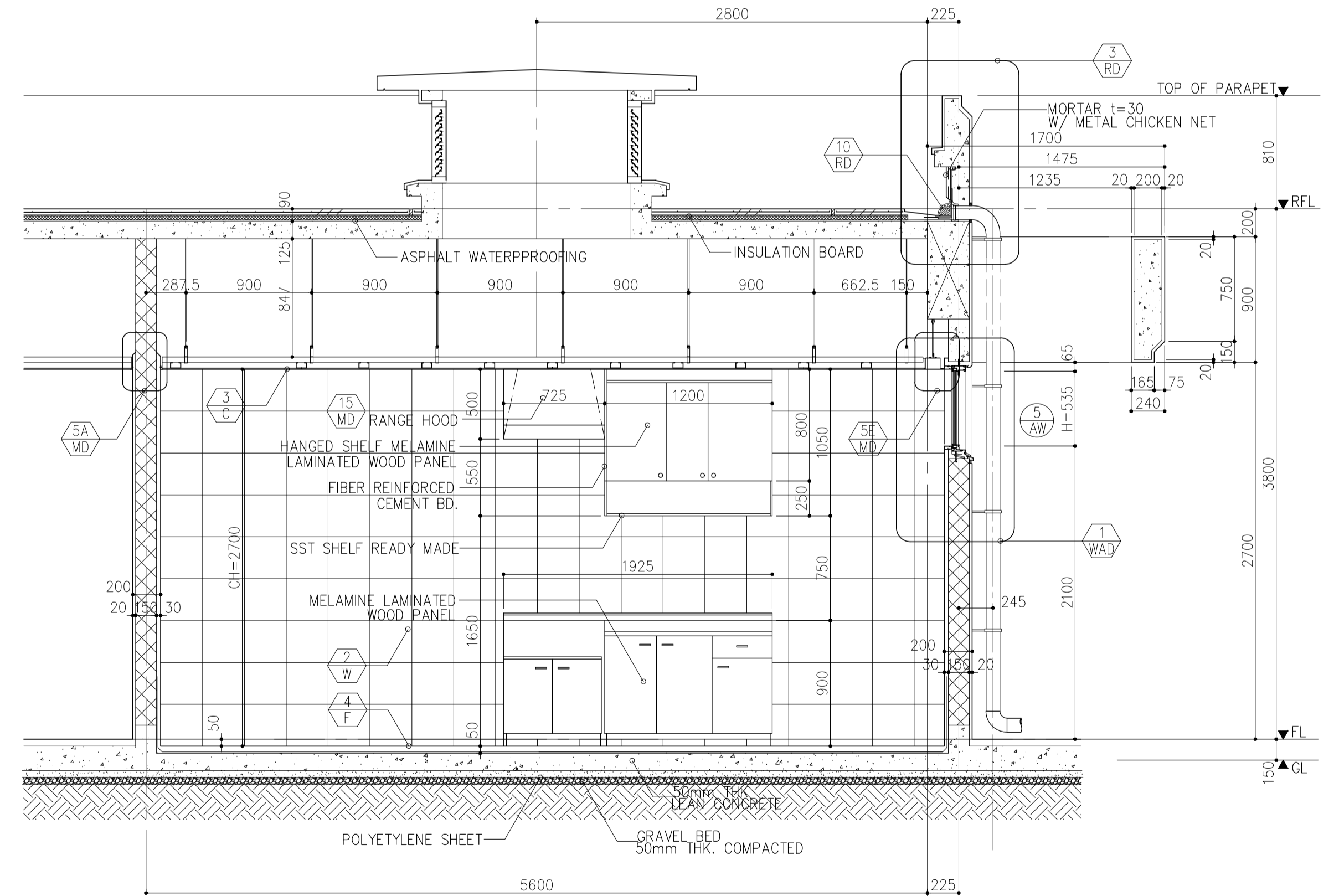
**2 ELEVATION -A**  
B4-4300-11 SCALE : 1:30 MTS.



**3 ELEVATION B**  
B4-4300-11 SCALE : 1:30 MTS.



**4 ELEVATION -C**  
B4-4300-11 SCALE : 1:30 MTS.



**5 ELEVATION -D**  
B4-4300-11 SCALE : 1:30 MTS.

Republic of the Philippines  
DEPARTMENT OF TRANSPORTATION  
AND  
COMMUNICATIONS

**JICA**  
JAPAN  
INTERNATIONAL  
COOPERATION  
AGENCY

JICA DESIGN CONSULTANT JOINT VENTURE

**JAC** JAPAN AIRPORT  
CONSULTANTS,  
INC.

**NIPON KOEI**  
CO., LTD.

**NIS CONSULTANTS**  
CO., LTD.

PREPARED BY:  
**WILLIAM I. MALLONGA**  
Architect  
REG. NO.: 4623  
DATE: MAY 9, 2013  
PLACE: MAKATI CITY

RECOMMENDING APPROVAL:  
**ILDEFONSO T. PATDU, JR.**  
Assistant Secretary  
for Project Implementation, DOTC

APPROVED:  
**JULIANITO G. BUCAYAN, JR.**  
Undersecretary  
for Project Implementation, DOTC

PROJECT TITLE:  
**NEW BOHOL AIRPORT CONSTRUCTION AND  
SUSTAINABLE ENVIRONMENT PROTECTION PROJECT**

LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

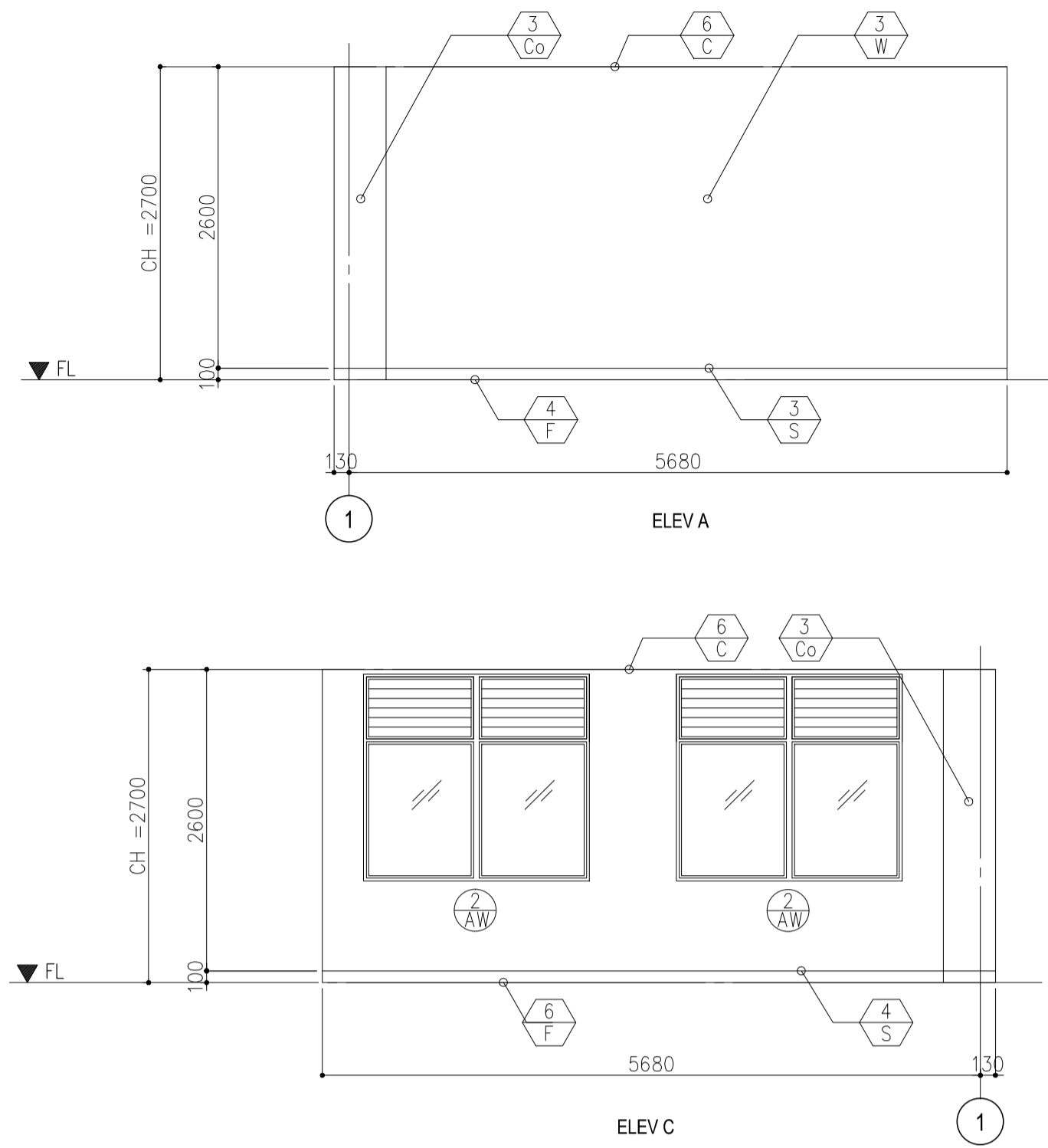
| DATE      | INDEX | AMENDMENTS | Prepared by | Checked by | Validated by |
|-----------|-------|------------|-------------|------------|--------------|
| JUNE 2013 |       |            | WIM         | HC         |              |

SHEET CONTENTS:  
COMPONENT-4 BUILDING WORKS (B)  
SUBCOMPONENT-4-4  
(B4) FIRE STATION AND AIRPORT  
MAINTENANCE BUILDING  
ARCHITECTURAL  
KITCHEN DETAIL PLAN & SECTION

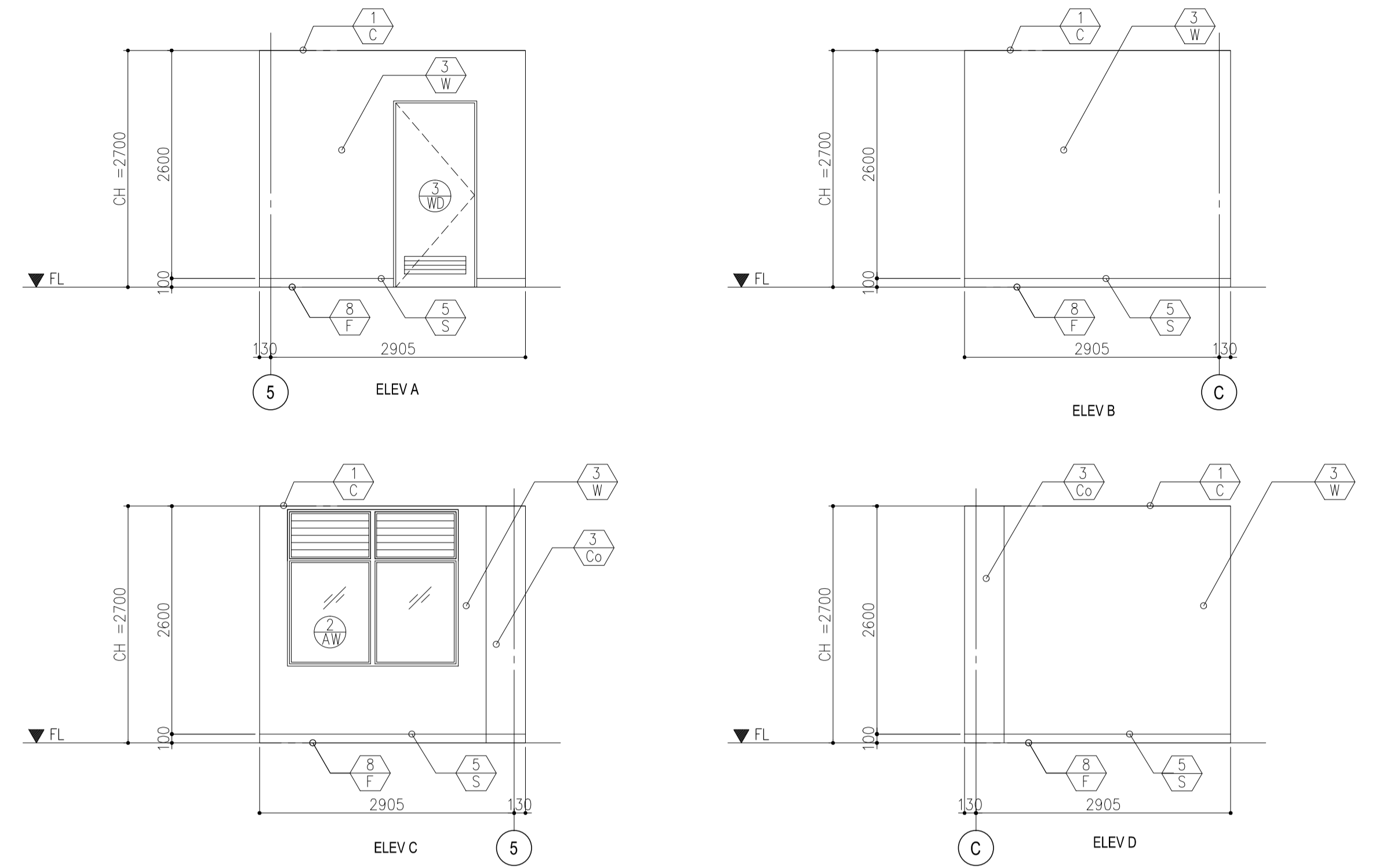
SHEET NO:  
**B4-4300-11**

DRAWING SCALE:  
1:30 MTS.

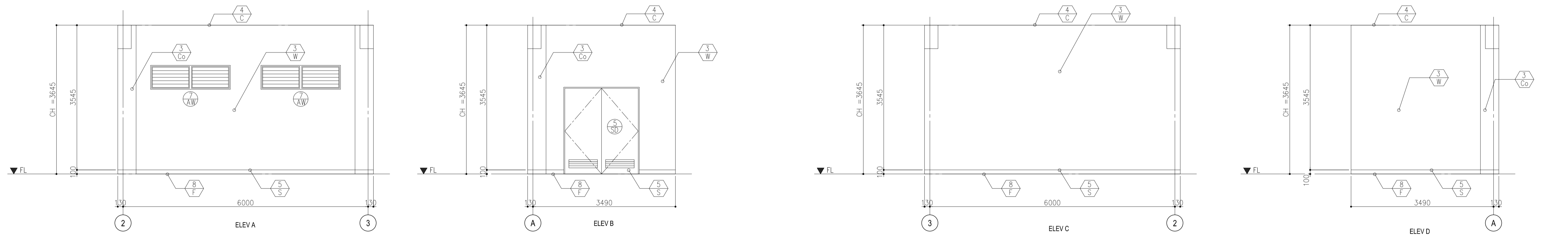
**NAP ROOM (22)**



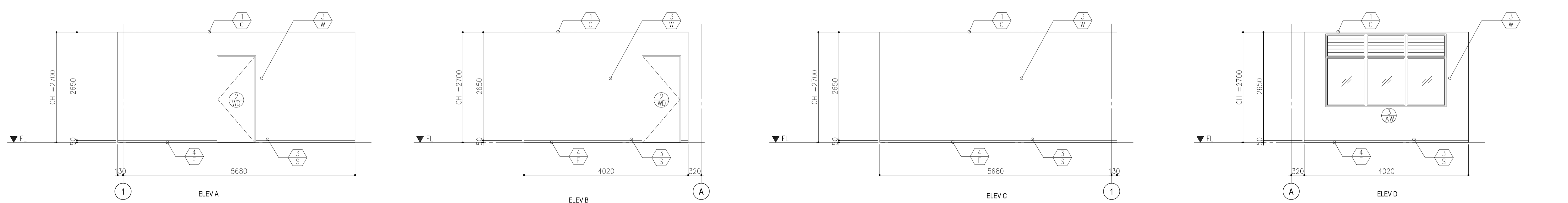
**STORAGE 4 (13)**



**EXT.AGENT STORAGE (19)**

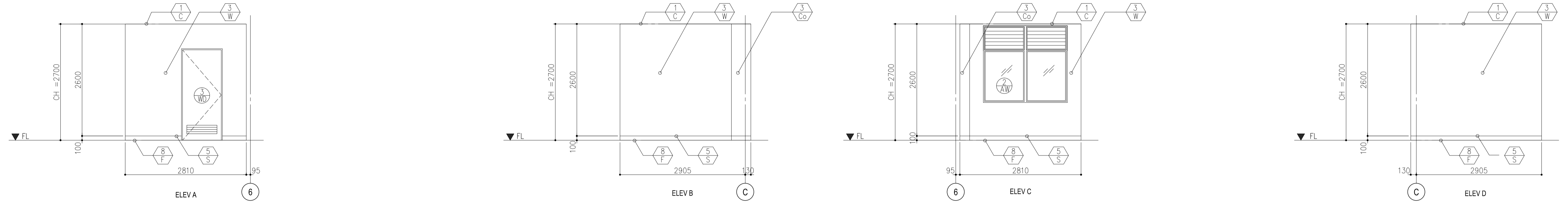


**OFFICE (21)**

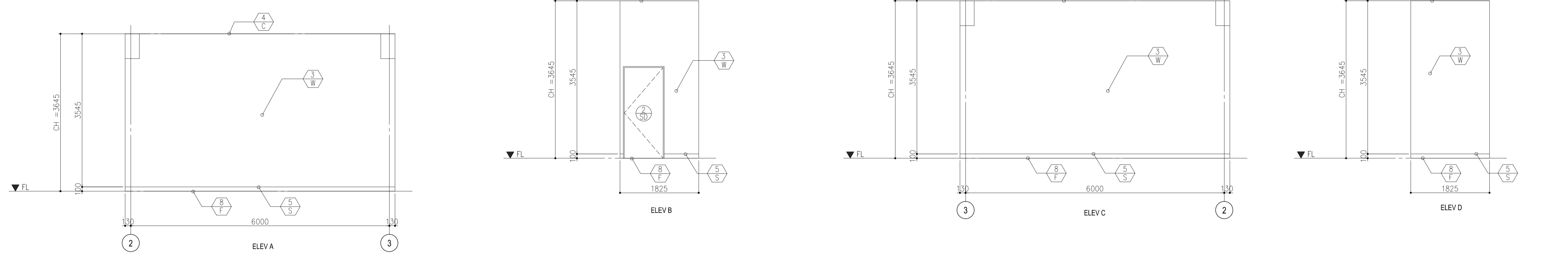


|  |                                                                                                                                                                        |                                                                                                                                 |                                                                                                                 |                                                                                                        |                                                                                                                                                                   |                                |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|  | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR: 3911137<br/>REG. NO.: 4623 DATE: MAY 9, 2013<br/>TIN: 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL INTERNAL ELEVATIONS 1-5 | SHEET NO:<br><b>B4-4300-12</b> |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAPAN AIRPORT CONSULTANTS, INC.                                                                                                | TADASHI AOI<br>Team Leader                                                                                                      | ILDEFONSO T. PATDU, JR.<br>Assistant Secretary for Project Implementation, DOTC                                 | JULIANITO G. BUCAYAN, JR.<br>Undersecretary for Project Implementation, DOTC                           | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES                                                                                                 | DRAWING SCALE:<br>1:50M.       |

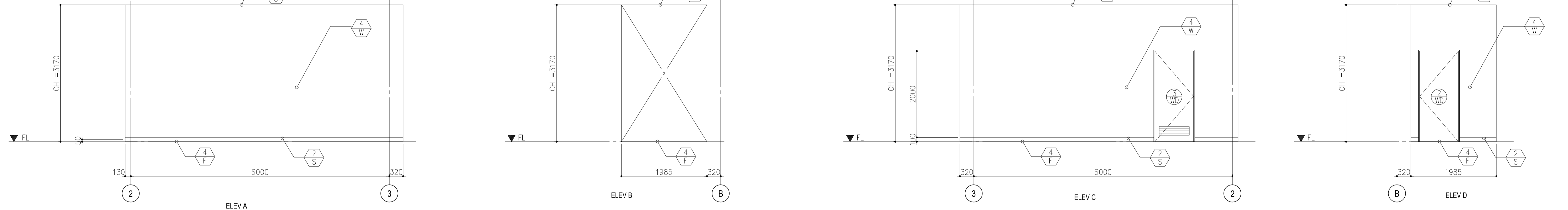
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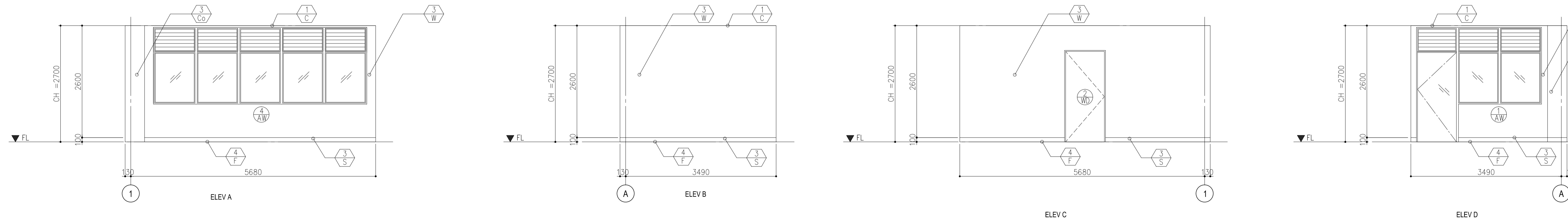
**STORAGE (18)**



**HALLWAY 2 (17)**



**OBSERVATION ROOM (20)**



Republic of the Philippines  
DEPARTMENT OF TRANSPORTATION  
AND COMMUNICATIONS

**JICA**  
JAPAN INTERNATIONAL COOPERATION AGENCY

JICA DESIGN CONSULTANT JOINT VENTURE

**JAC** JAPAN AIRPORT CONSULTANTS, INC.  
**NK** NIPPON KOEI CO., LTD.  
**NIS** NIS CONSULTANTS CO., LTD.

PREPARED BY:  
**WILLIAM I. MALLONGA**  
Architect  
P.I.R. 3911137  
REG. NO.: 4623 DATE: MAY 9, 2013  
P.L.N. 150-564-196 PLACE: MAKATI CITY

TADASHI AOI  
Team Leader

RECOMMENDING APPROVAL:  
**ILDEFONSO T. PATDU, JR.**  
Assistant Secretary  
for Project Implementation, DOTC

APPROVED:  
**JULIANITO G. BUCAYAN, JR.**  
Undersecretary  
for Project Implementation, DOTC

PROJECT TITLE:  
**NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT**

LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

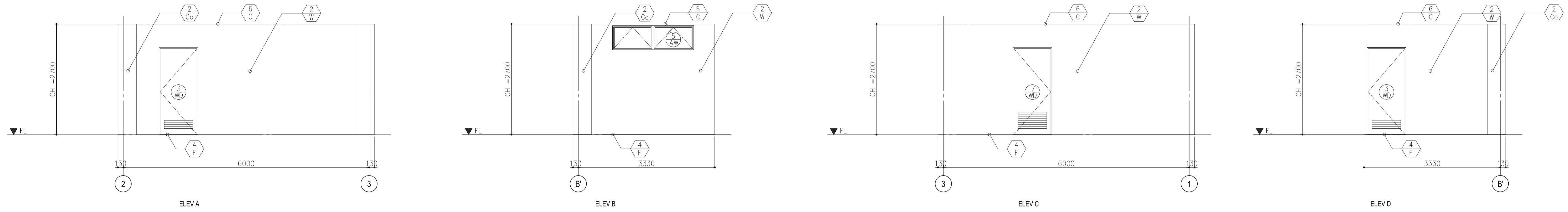
| DATE      | INDEX | AMENDMENTS | Prepared by | Checked by | Validated by |
|-----------|-------|------------|-------------|------------|--------------|
| JUNE 2013 |       |            | WIM         | HC         |              |

SHEET CONTENTS:  
COMPONENT-4 BUILDING WORKS (B)  
SUBCOMPONENT-4-4  
(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL INTERNAL ELEVATIONS 2-5

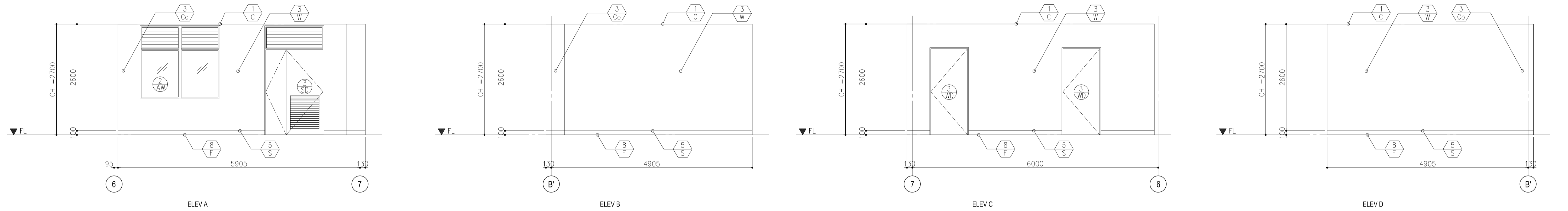
SHEET NO:  
**B4-4300-13**

DRAWING SCALE:  
1:50M.

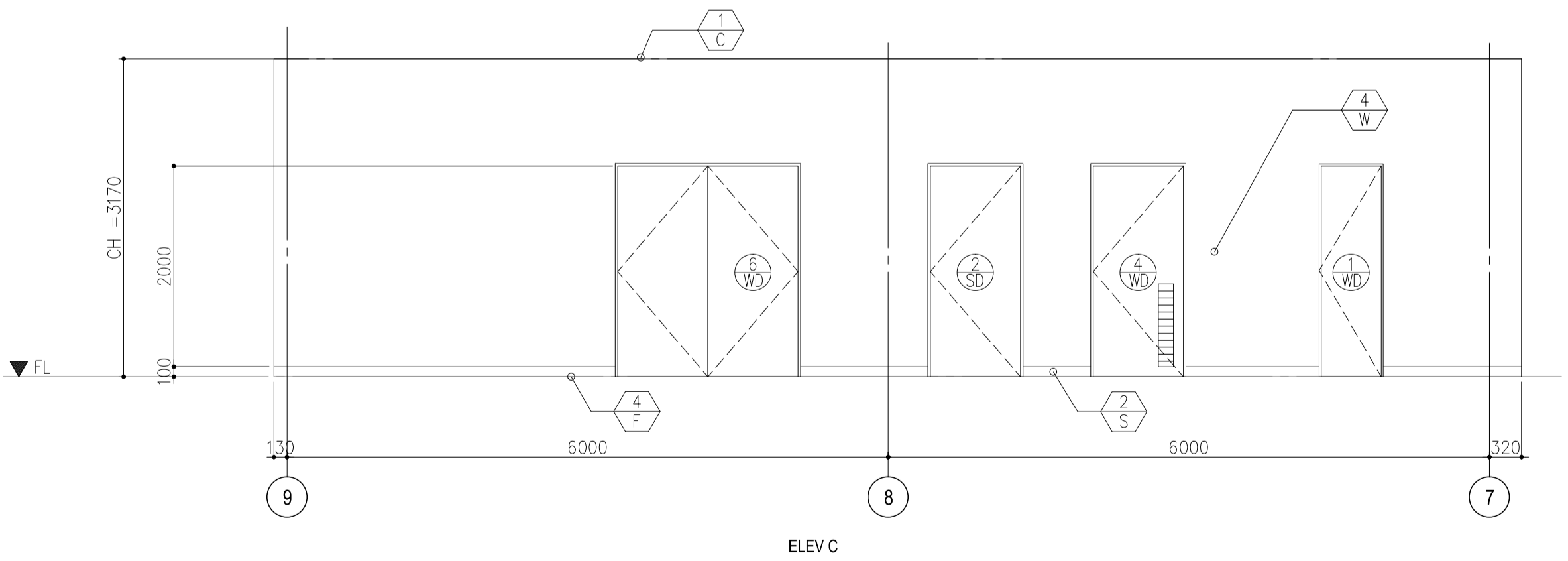
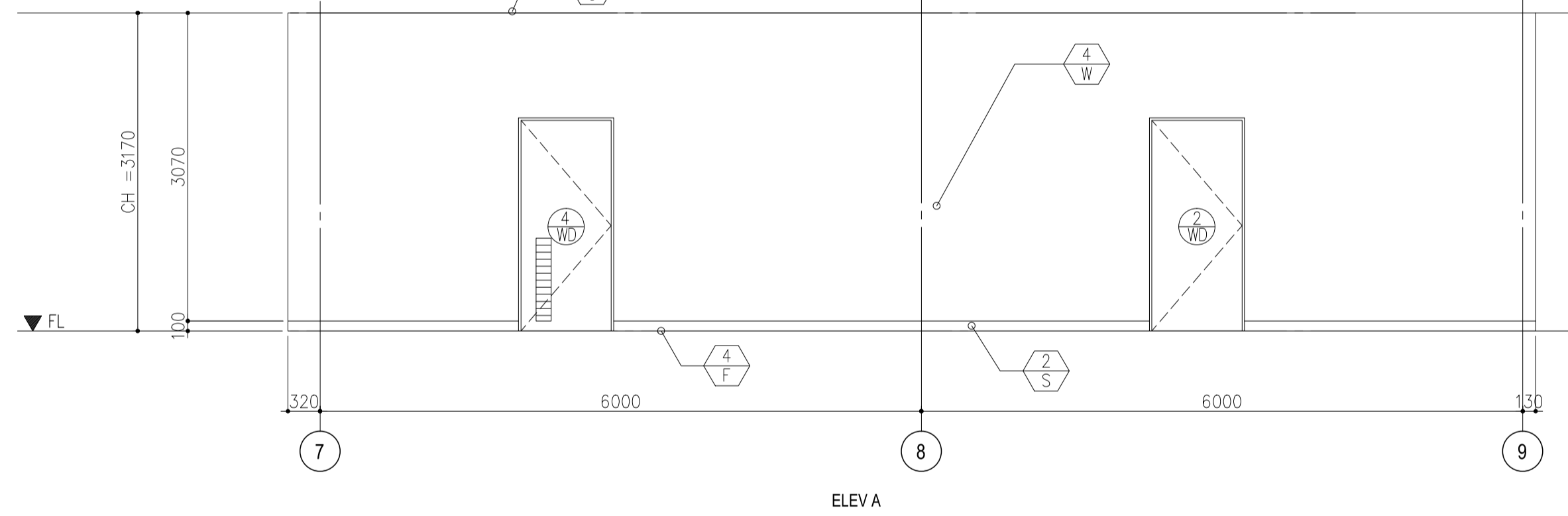
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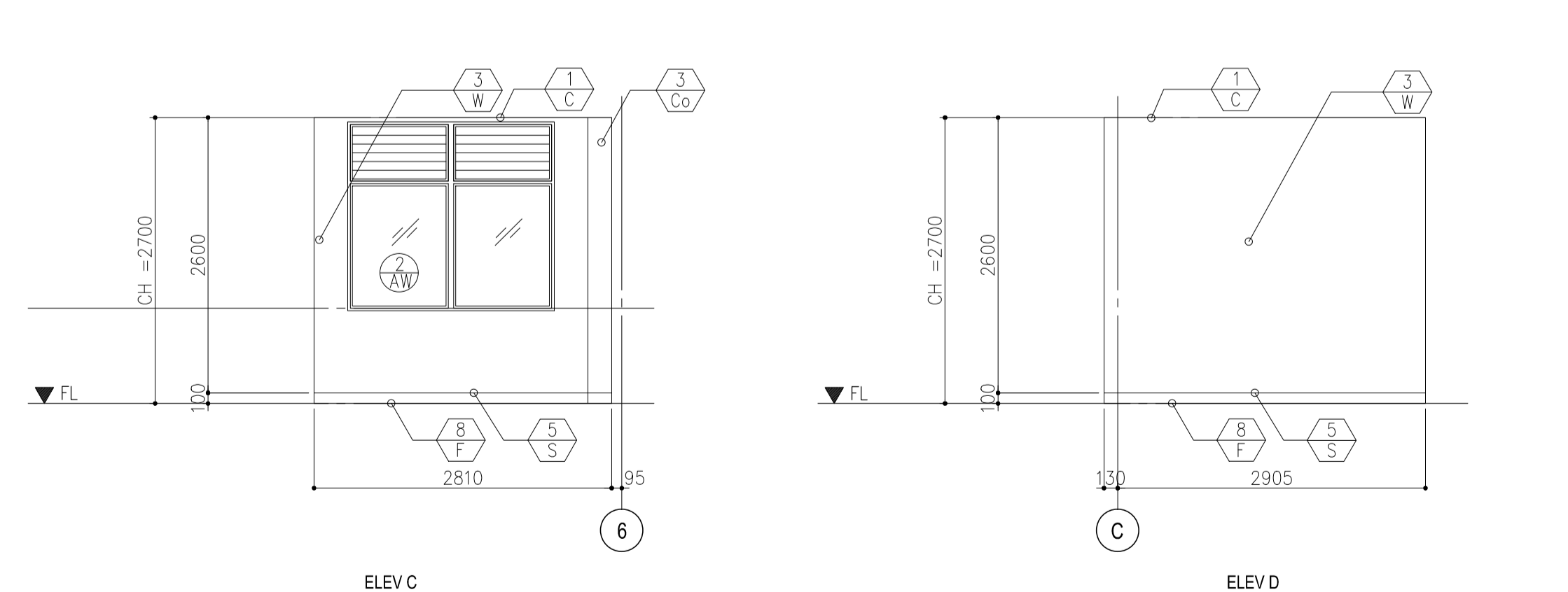
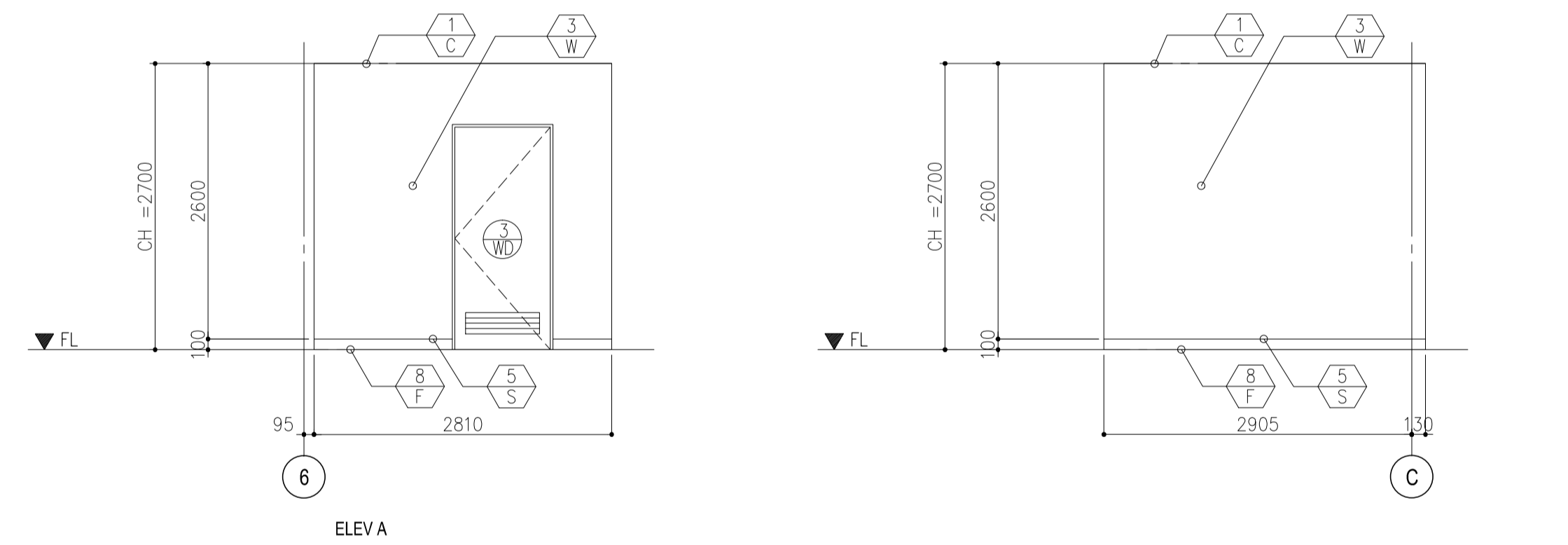
### WORKSHOP 1 (08)



### HALLWAY 1 (01)



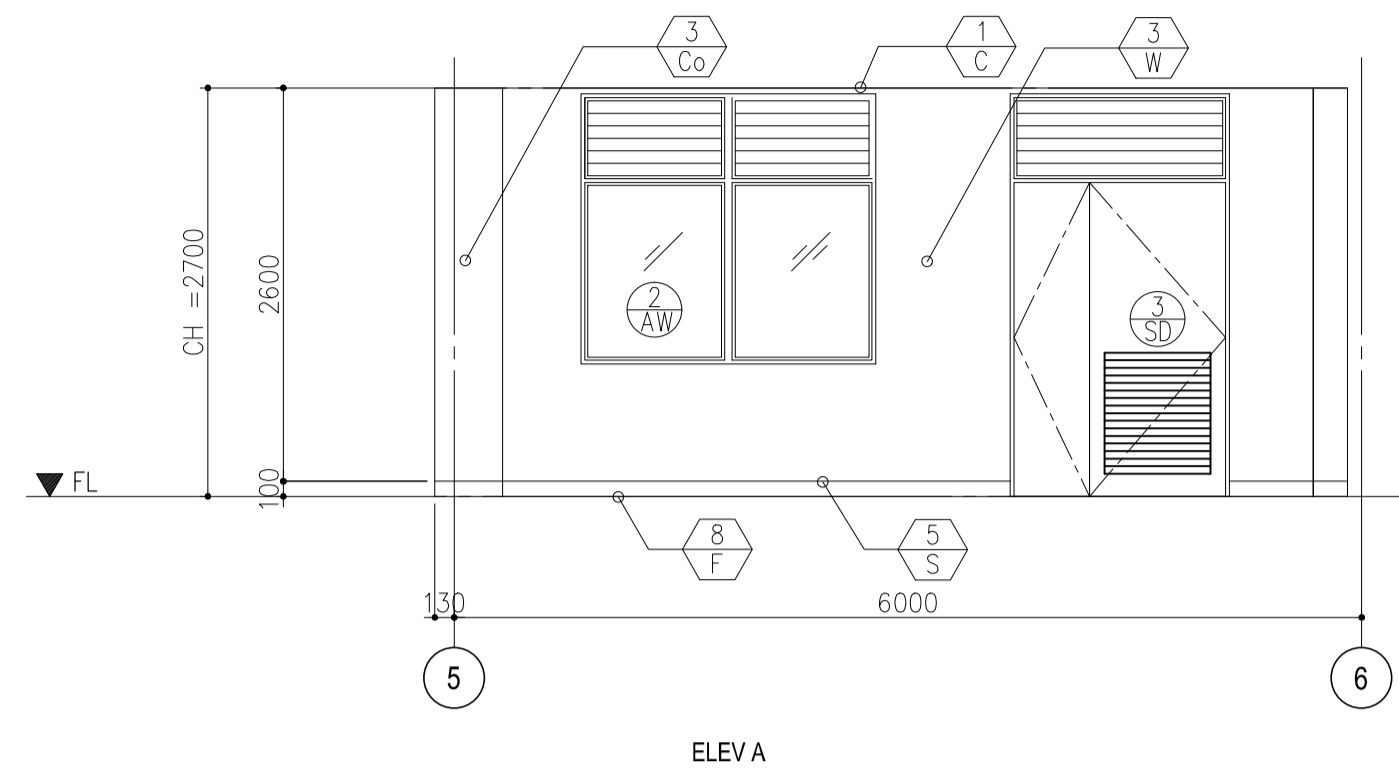
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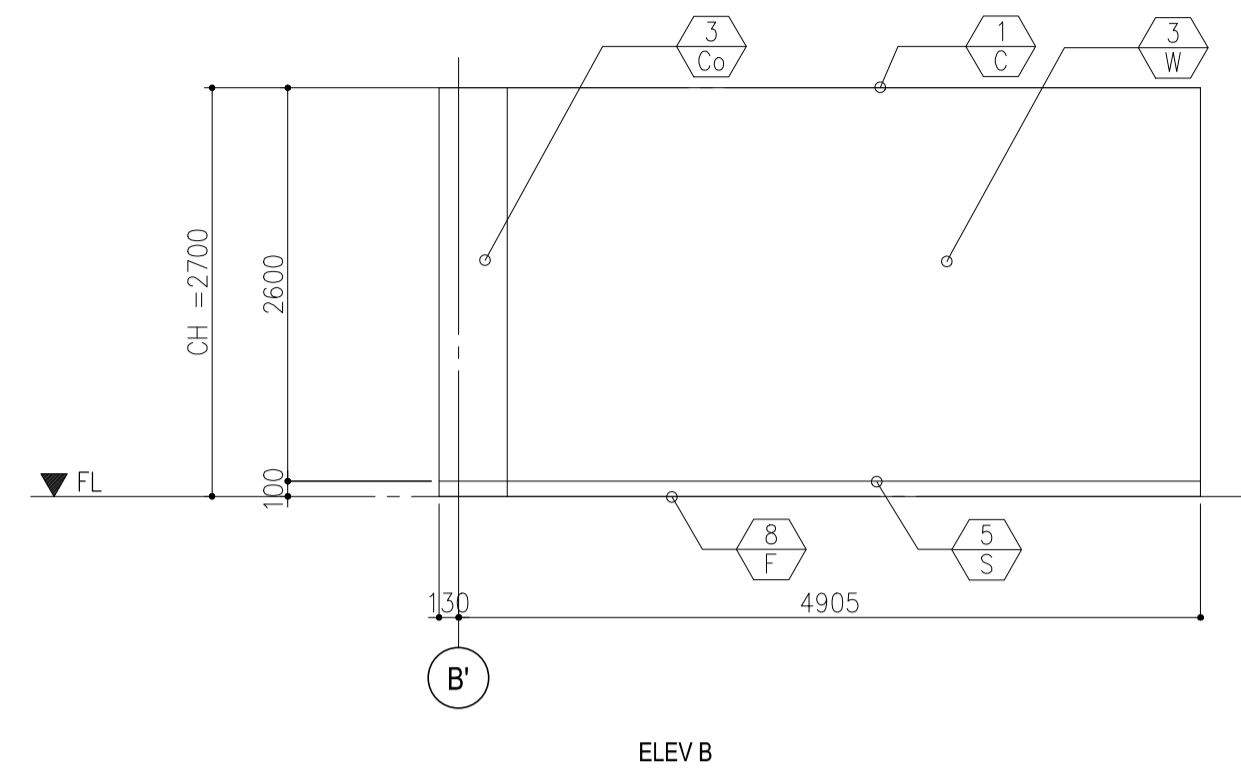
|  |                                                                                                                                                                        |                                                                                                                                 |                                                                                                                    |                                                                                                        |                                                                   |                                                                                                                                                                   |                                |                                                     |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------|
|  | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR. 3911137<br/>REG. NO.: 4623 DATE: MAY 9, 2013<br/>TEL. 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary for Project Implementation, DOTC</small> | APPROVED BY:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL INTERNAL ELEVATIONS 3-5 | SHEET NO:<br><b>B4-4300-14</b> |                                                     |
|  | JICA DESIGN CONSULTANT JOINT VENTURE                                                                                                                                   | TADASHI AOI<br><small>Team Leader</small>                                                                                       | ILDEFONSO T. PATDU, JR.<br><small>Assistant Secretary for Project Implementation, DOTC</small>                     | JULIANITO G. BUCAYAN, JR.<br><small>Undersecretary for Project Implementation, DOTC</small>            | DATE: JUNE 2013                                                   | INDEX:                                                                                                                                                            | AMENDMENTS:                    | Prepared by: WIM<br>Checked by: HC<br>Validated by: |



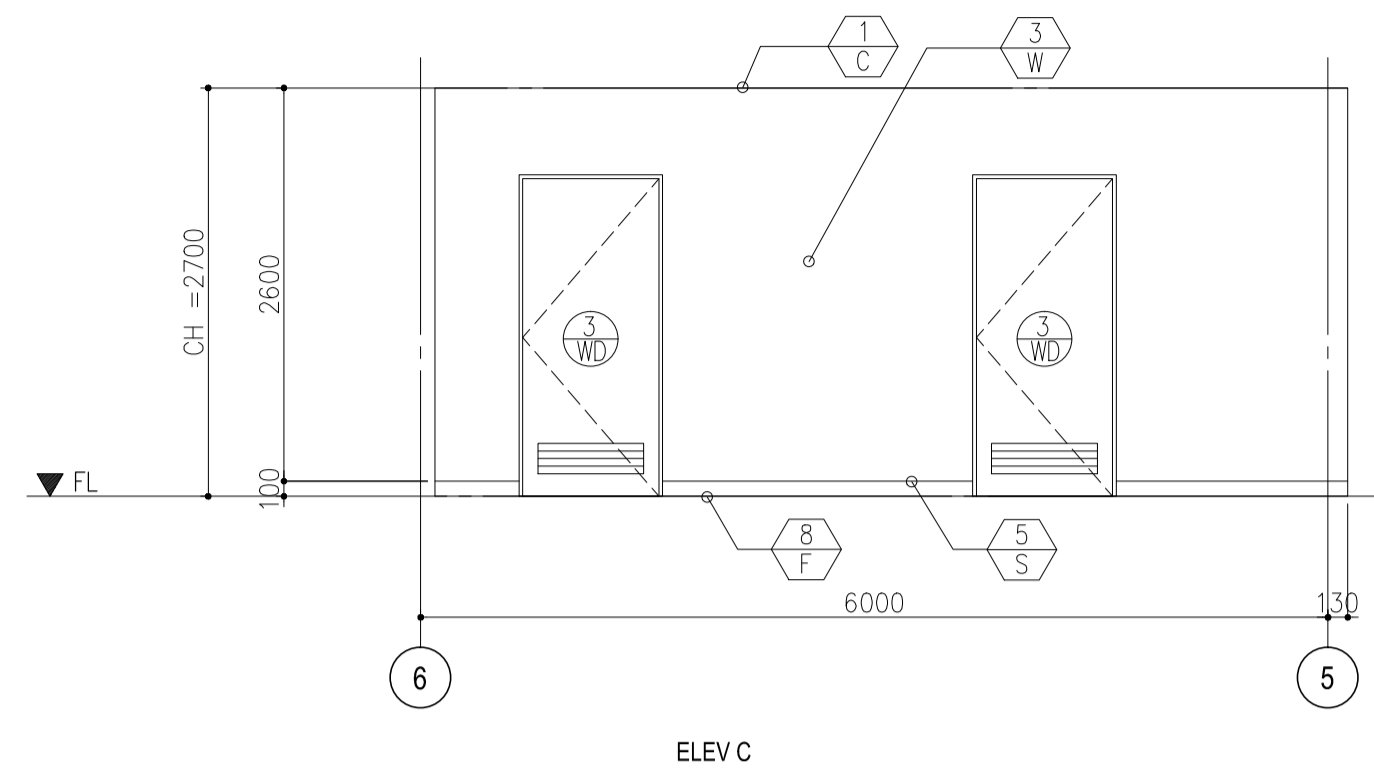
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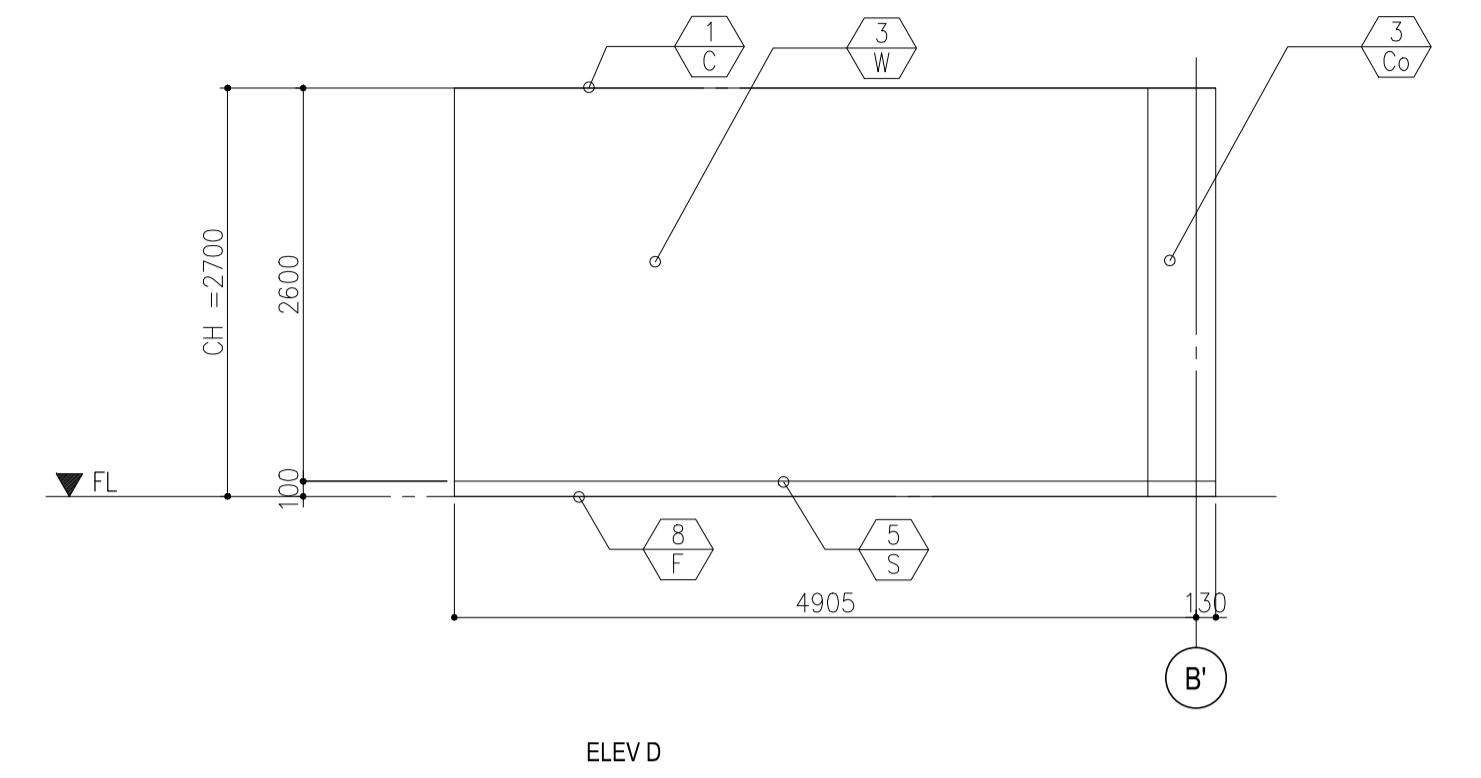
ELEV A



ELEV B

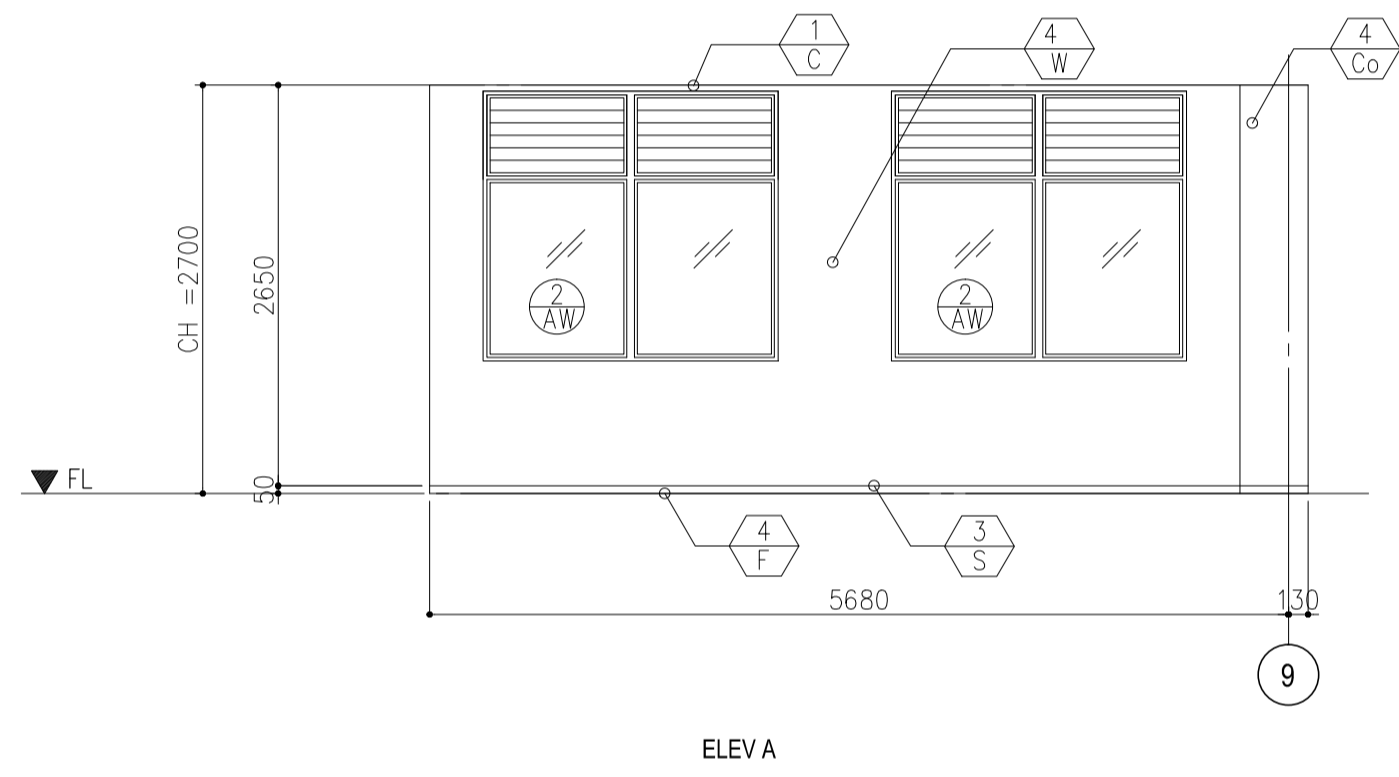


ELEV C

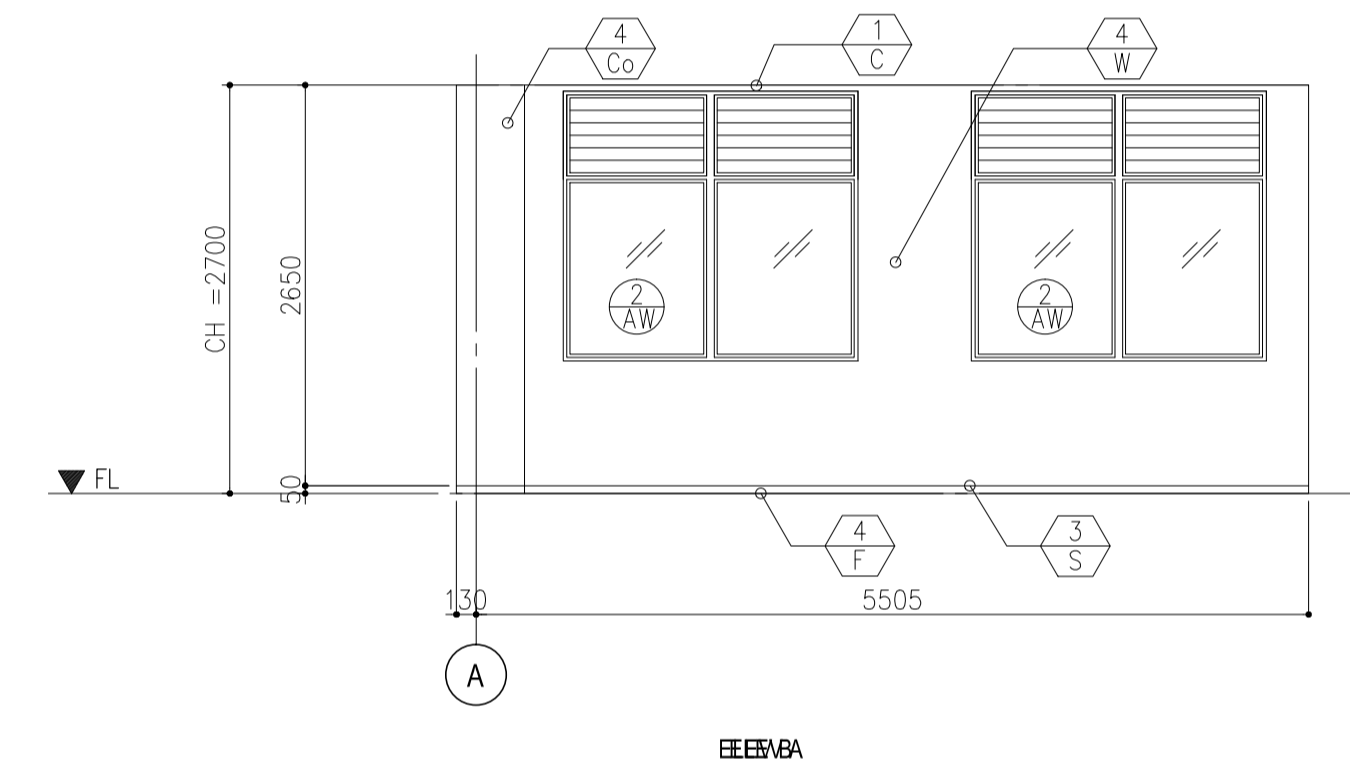


ELEV D

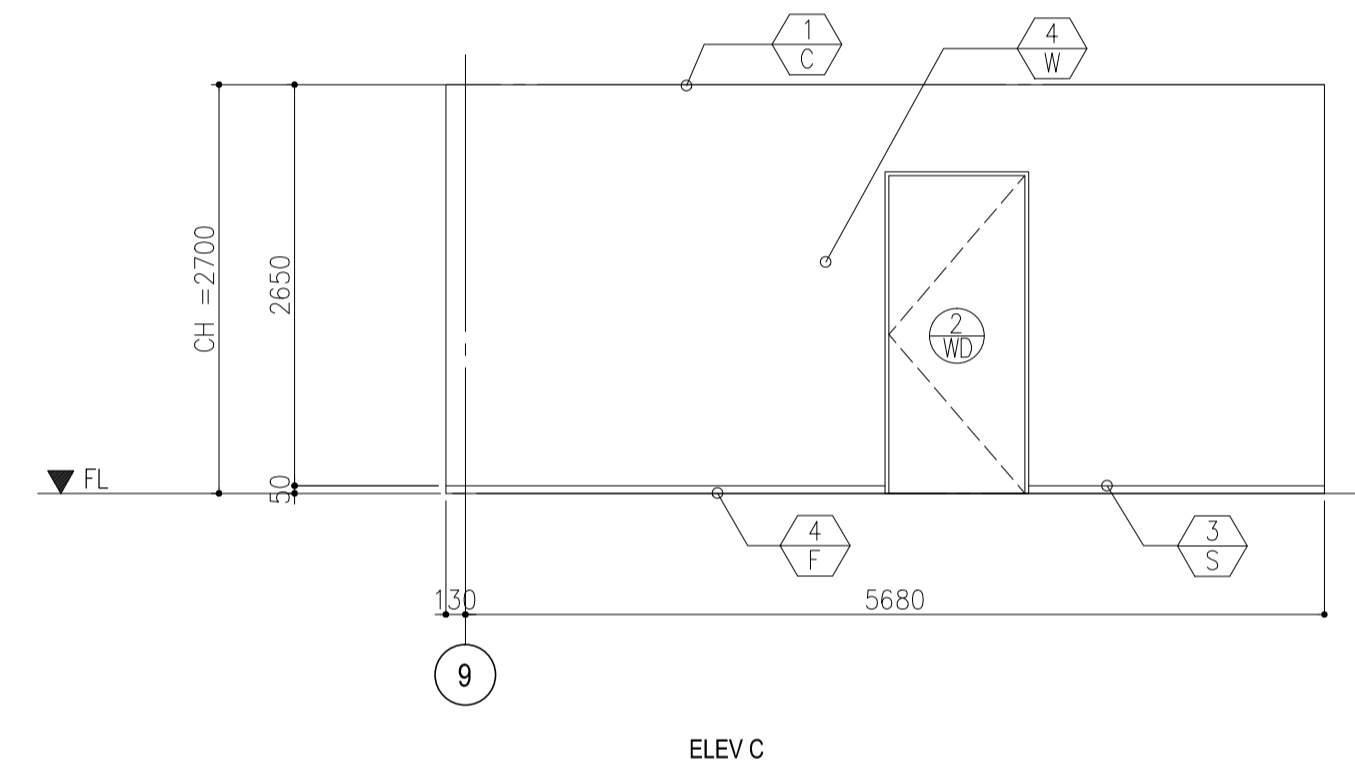
### DINING (05)



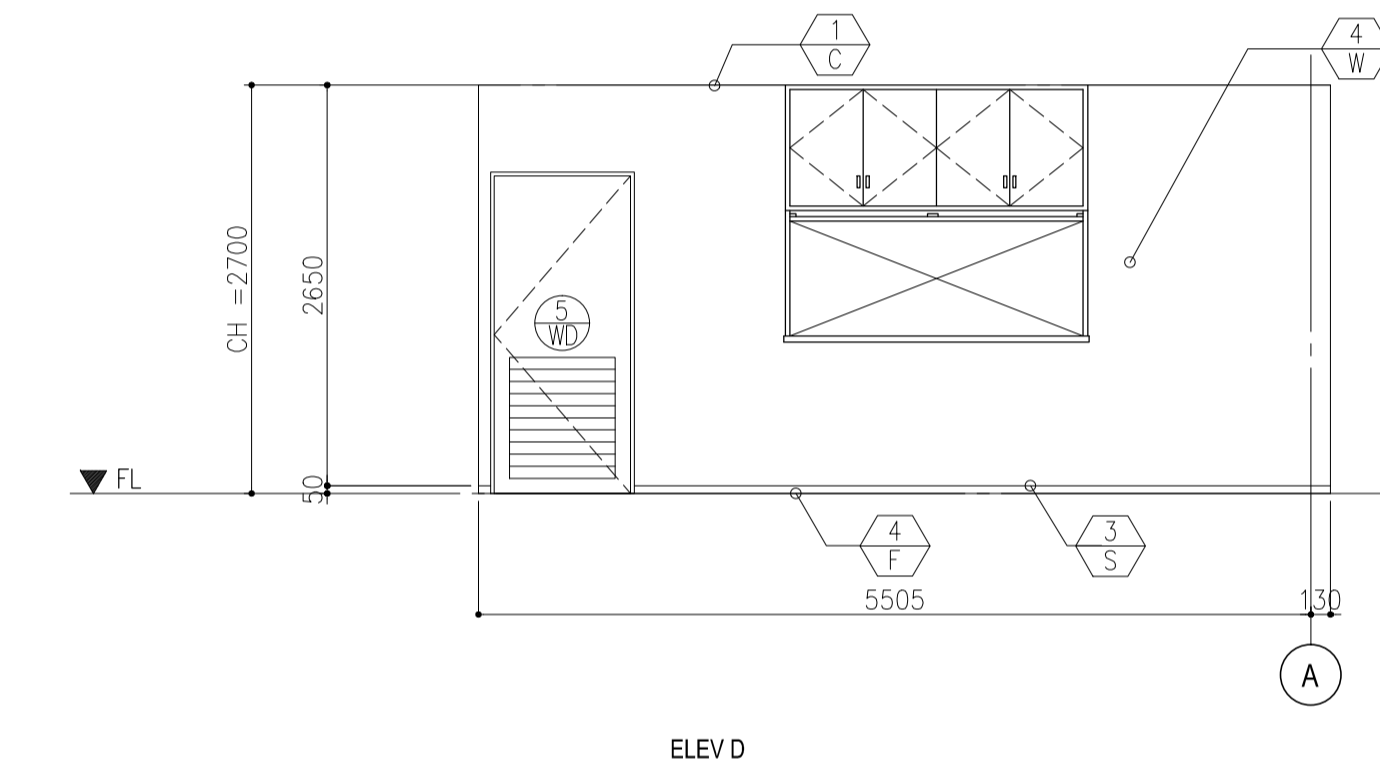
ELEV A



ELEV B

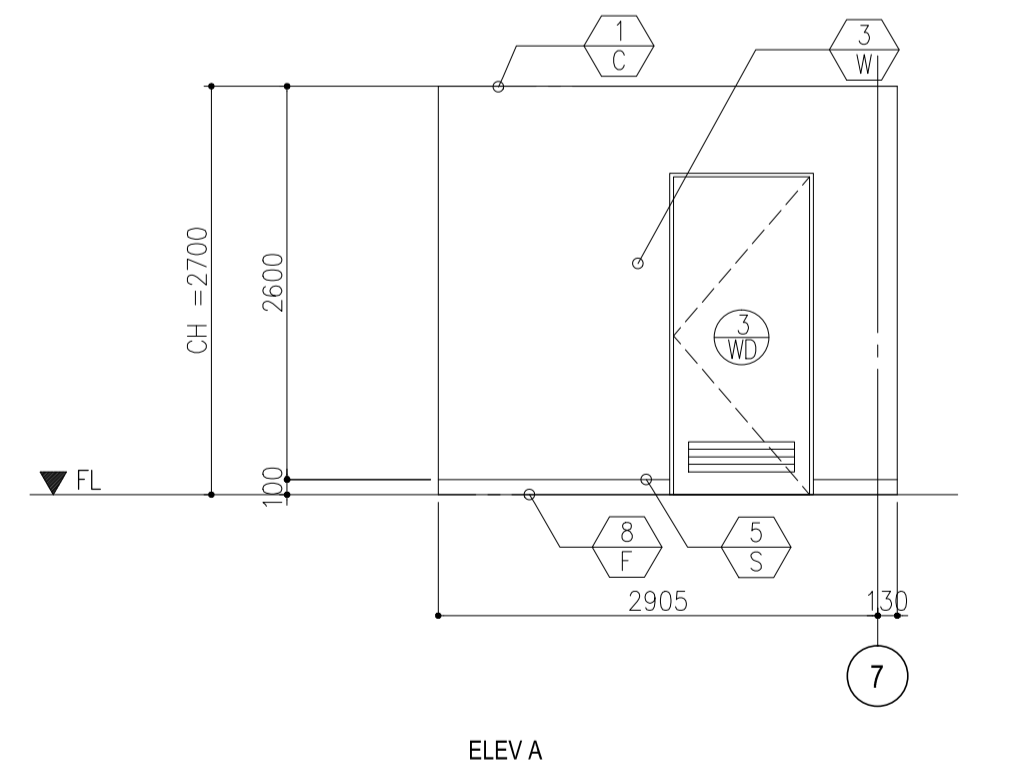


ELEV C

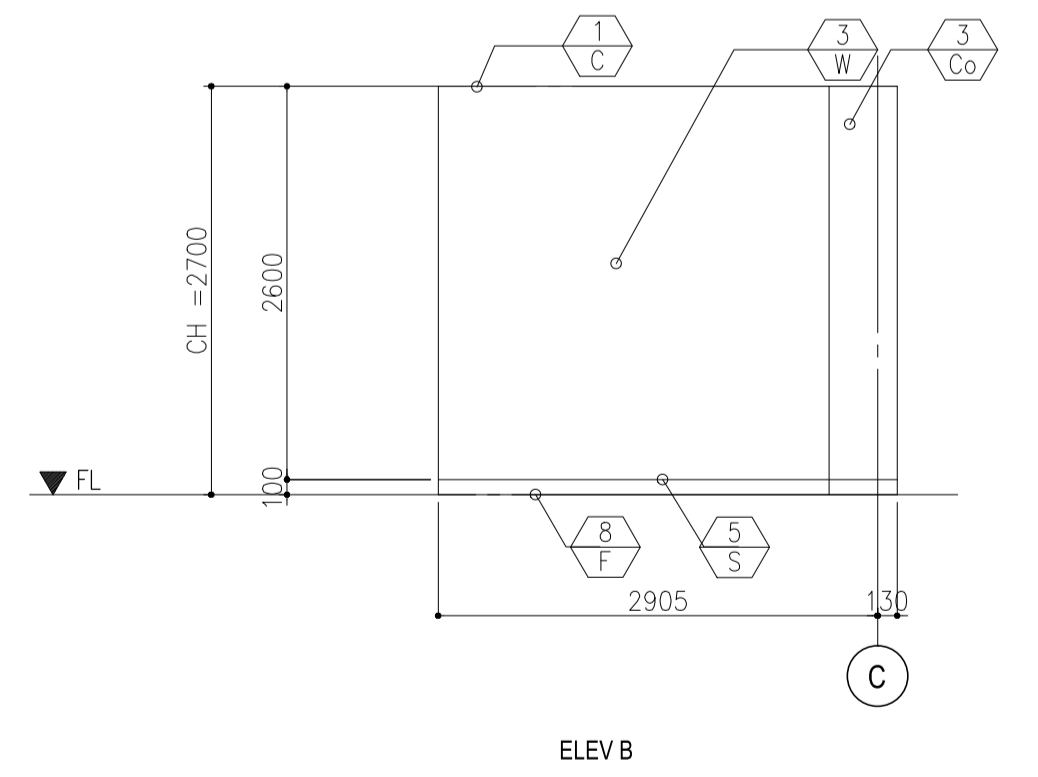


ELEV D

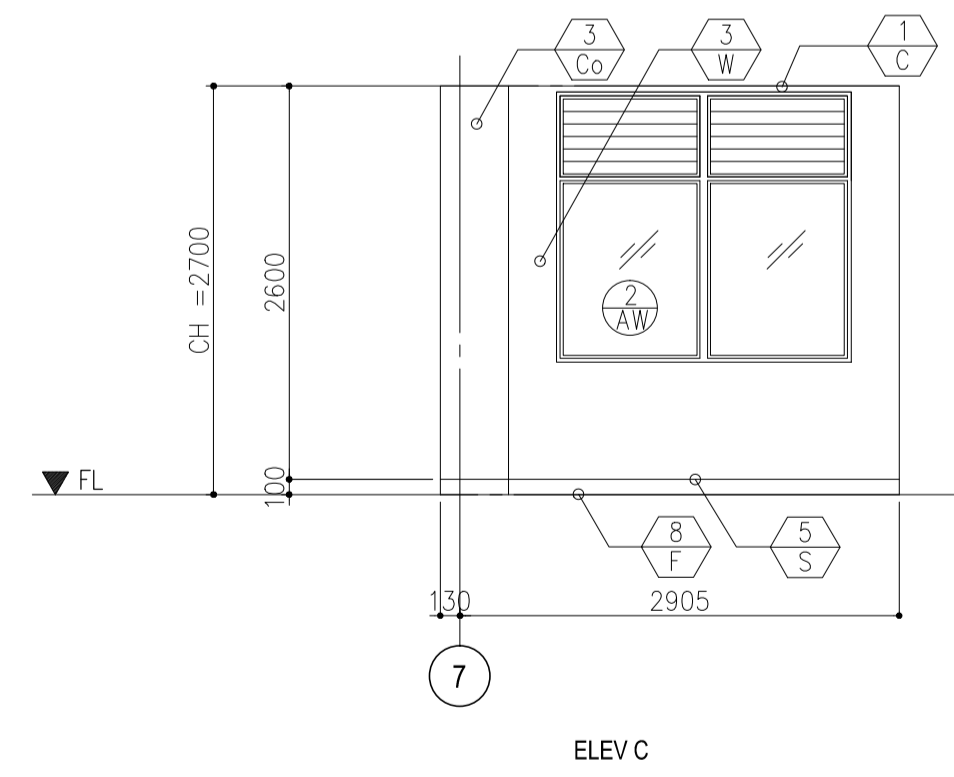
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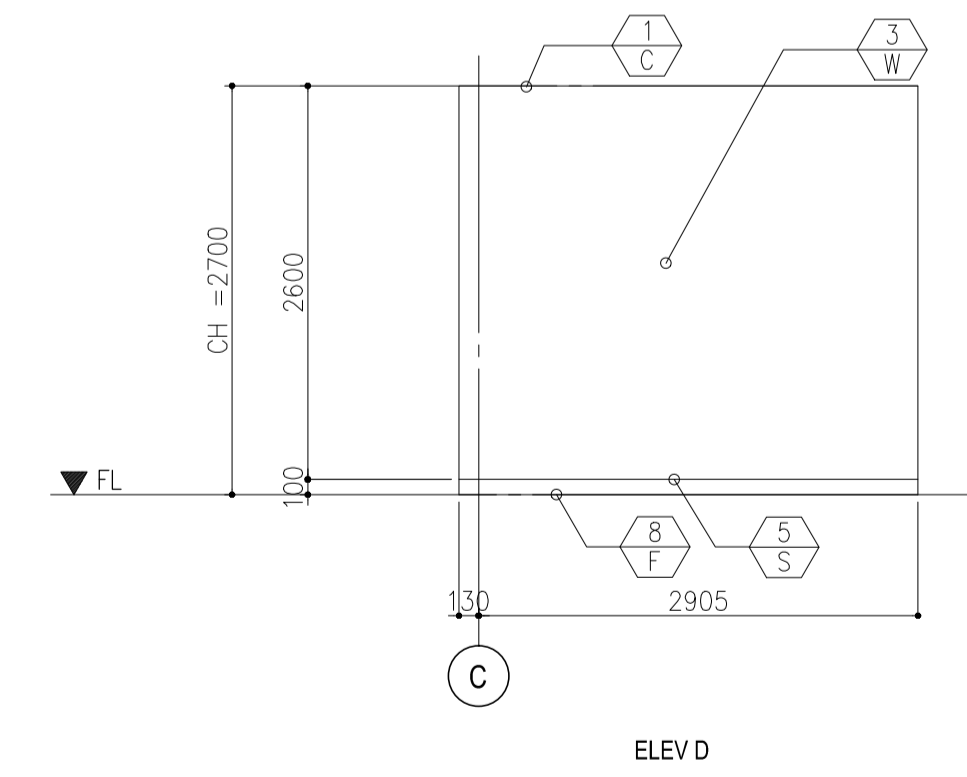
ELEV A



ELEV B



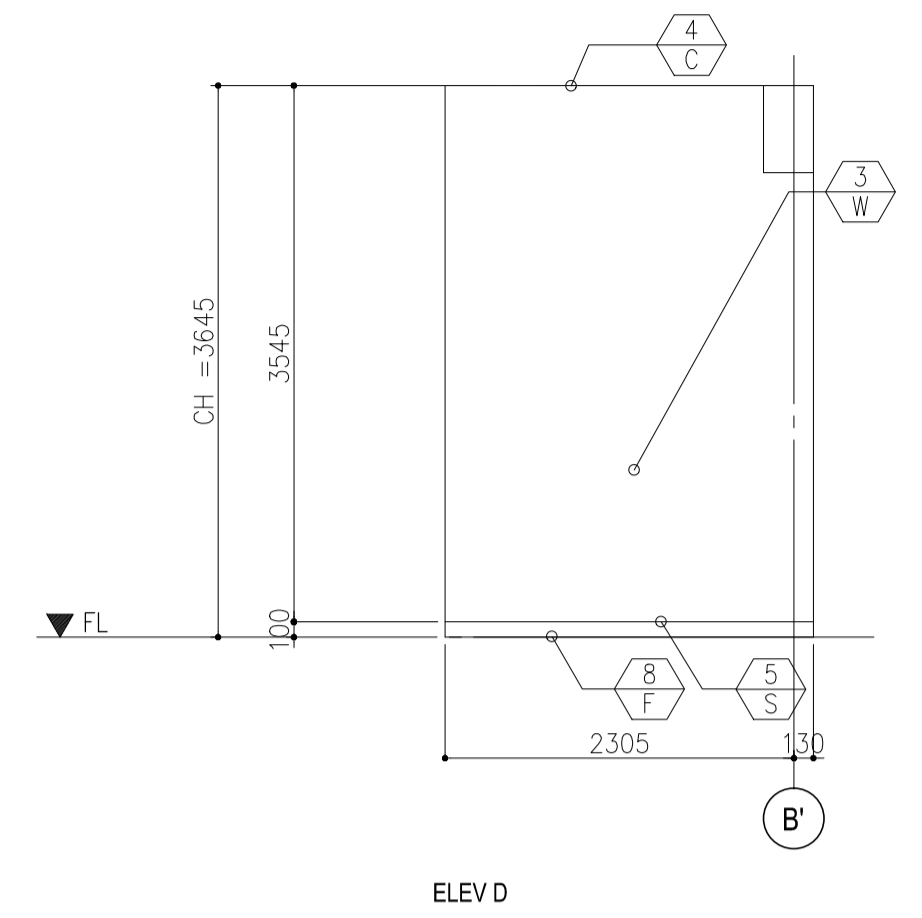
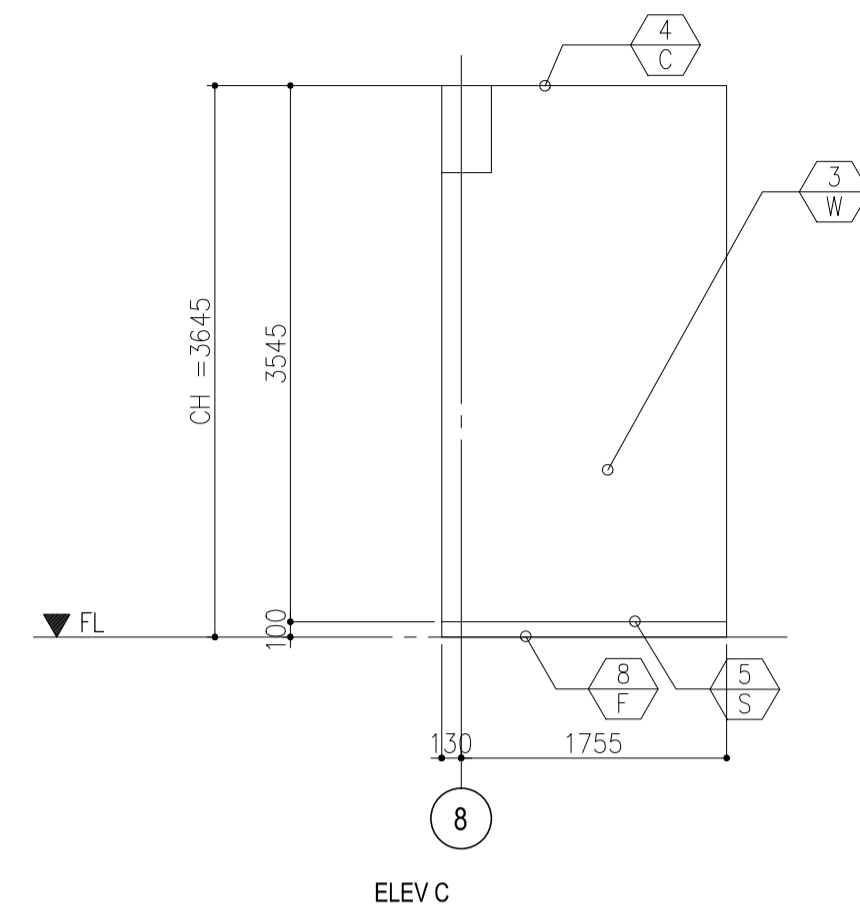
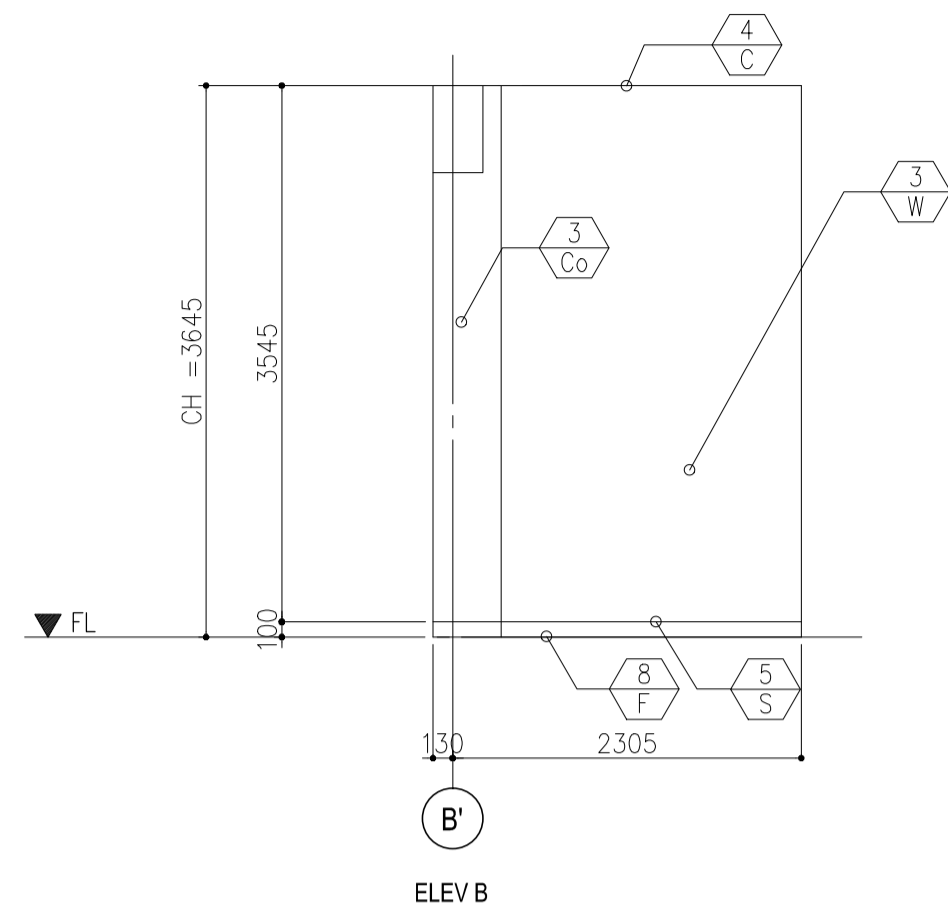
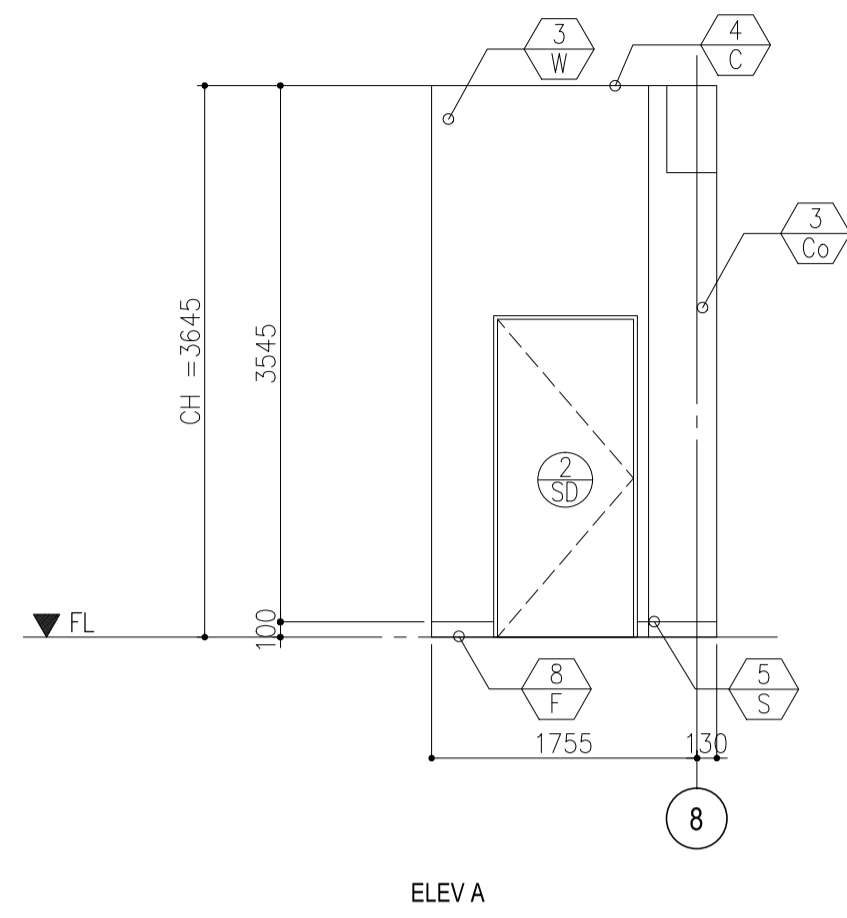
ELEV C



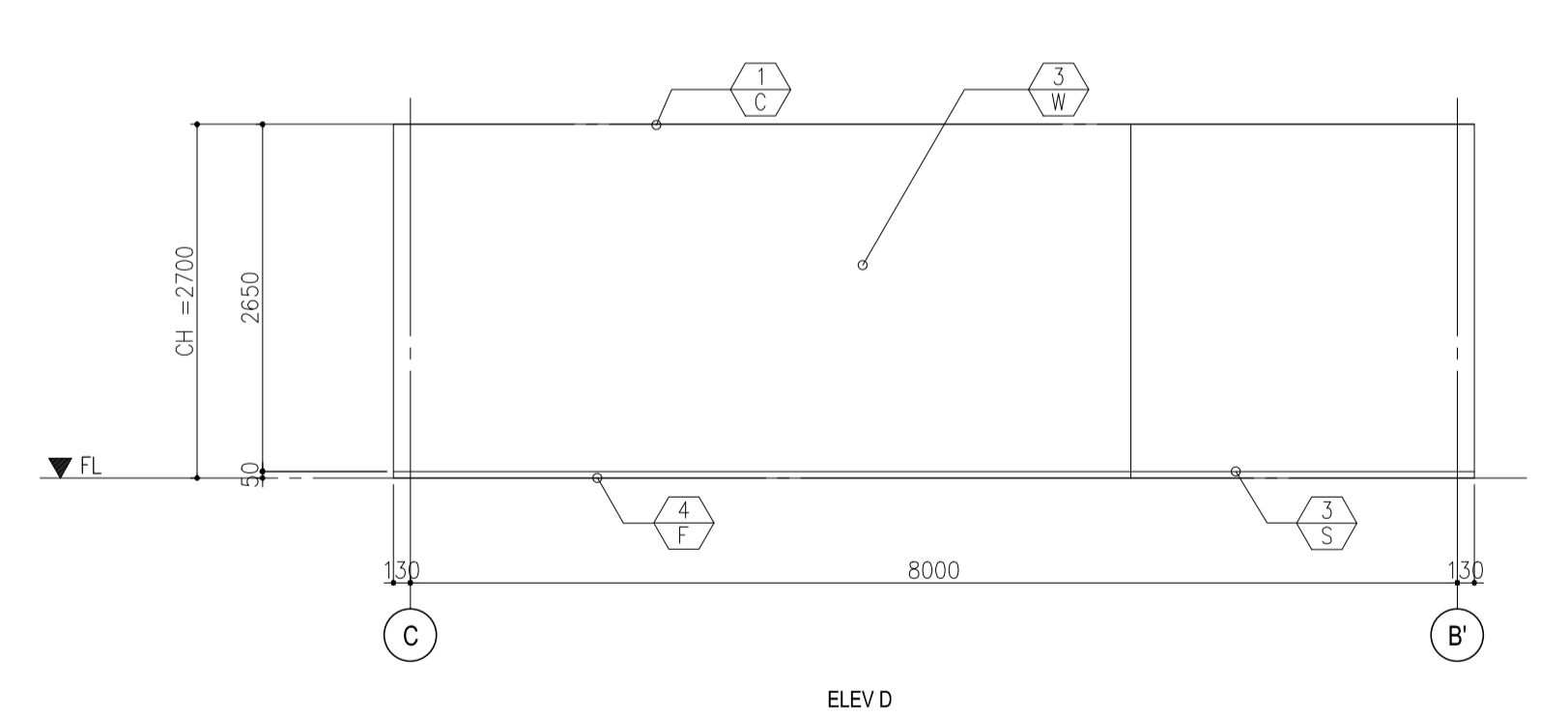
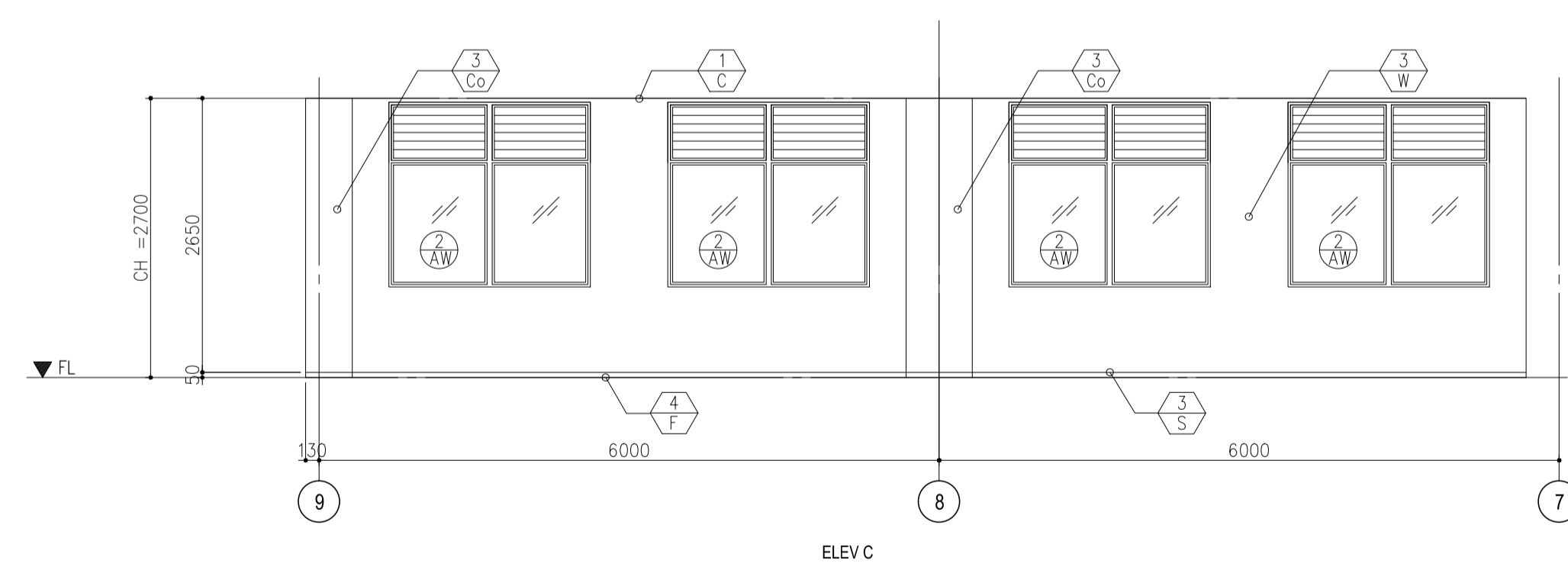
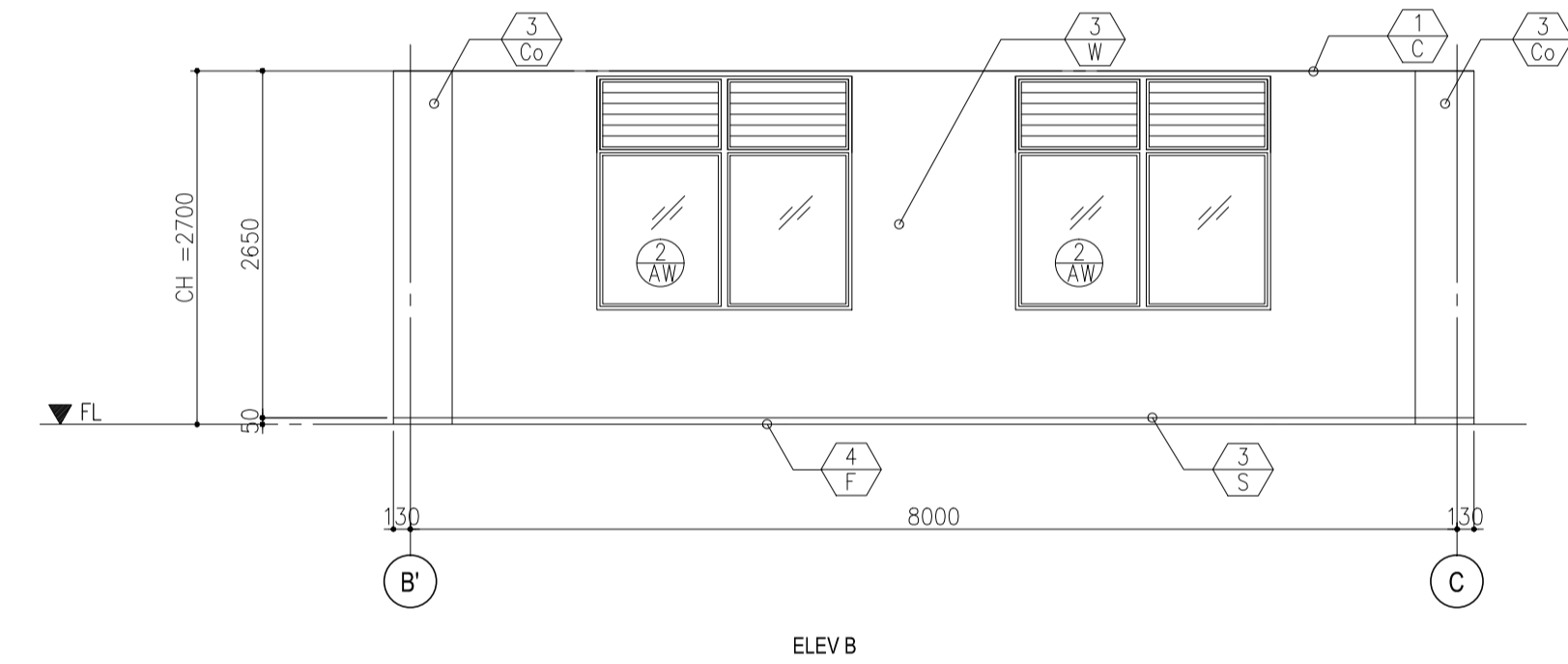
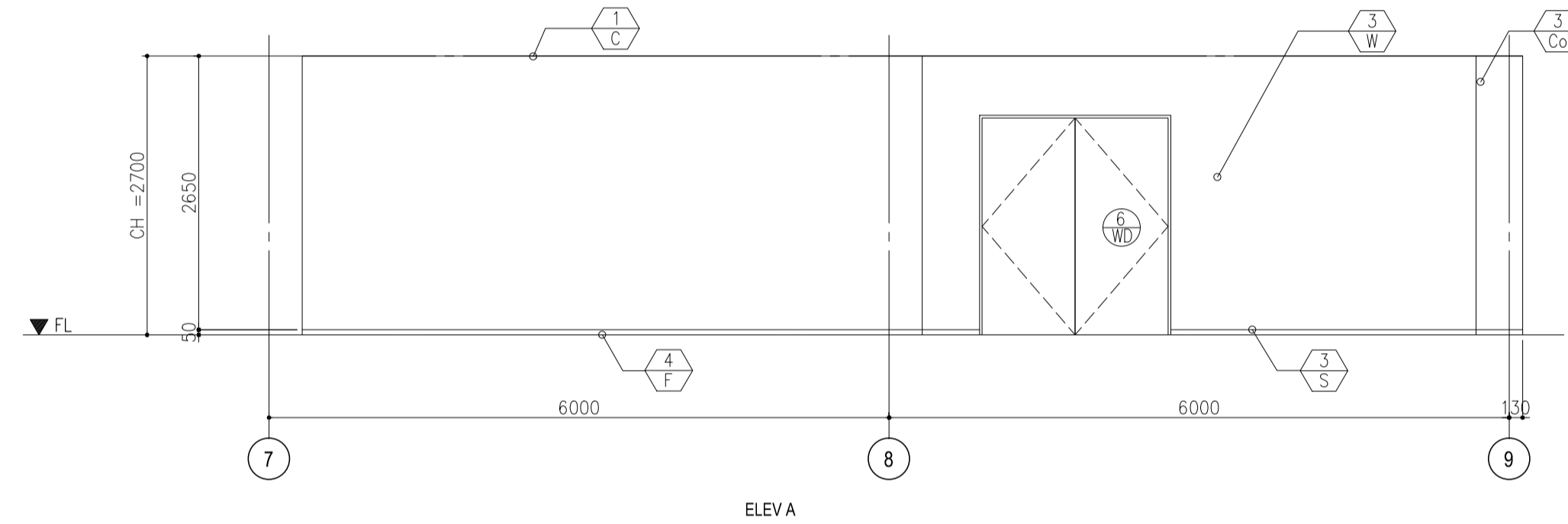
ELEV D

|  |                                                                                                                                                                        |                                                                                                                                     |                                                                                                                     |                                                                                                        |                                                                   |                                                                                                                                                                   |                                                     |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
|  | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR: 3911137<br/>REG. NO.: 4623 DATE: MAY 9, 2013<br/>TIN: 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary<br/>for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary<br/>for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL INTERNAL ELEVATIONS 4-5 | SHEET NO:<br><b>B4-4300-15</b>                      |
|  | JICA DESIGN CONSULTANT JOINT VENTURE                                                                                                                                   | TADASHI AOI<br><small>Team Leader</small>                                                                                           | ILDEFONSO T. PATDU, JR.<br><small>Assistant Secretary<br/>for Project Implementation, DOTC</small>                  | JULIANITO G. BUCAYAN, JR.<br><small>Undersecretary<br/>for Project Implementation, DOTC</small>        | DATE: JUNE 2013<br>INDEX:                                         | AMENDMENTS:                                                                                                                                                       | Prepared by: WIM<br>Checked by: HC<br>Validated by: |

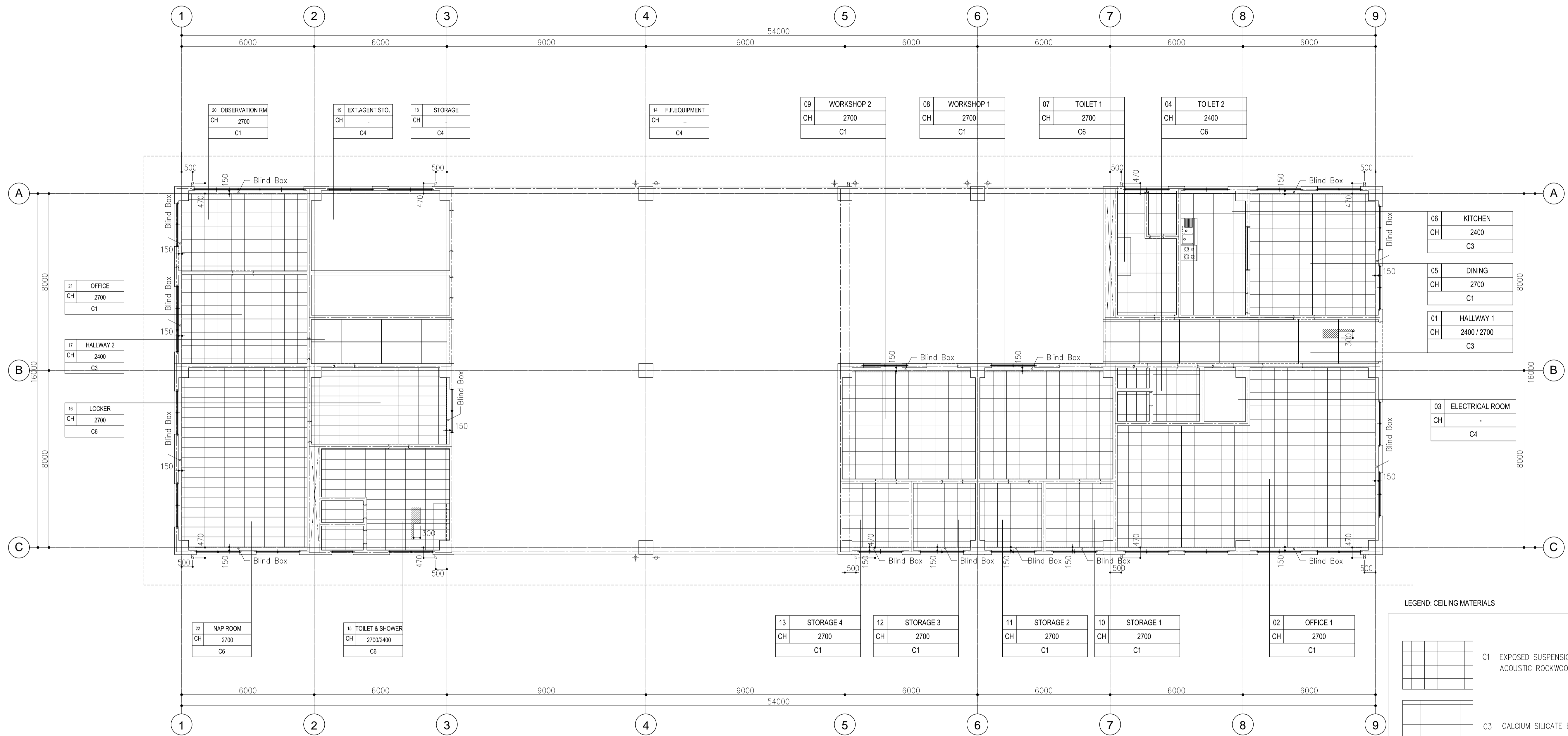
### ELECTRICAL ROOM (03)



### OFFICE 1 (02)



|  |                                                                                                                                                                          |                                                                                                                                 |                                                                                                                 |                                                                                                                                                                             |                                                                                                                                                                   |                                                            |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
|  | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR: 3911137<br/>REG. NO.: 4623 DATE: MAY 9, 2013<br/>T.I.N. 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b><br>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL INTERNAL ELEVATIONS 5-5 | SHEET NO:<br><b>B4-4300-16</b><br>DRAWING SCALE:<br>1:50M. |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAPAN AIRPORT CONSULTANTS, INC.                                                                                                  | JUNE 2013<br>DATE INDEX AMENDMENTS                                                                                              | Prepared by: WIM<br>Checked by: HC<br>Validated by:                                                             |                                                                                                                                                                             |                                                                                                                                                                   |                                                            |



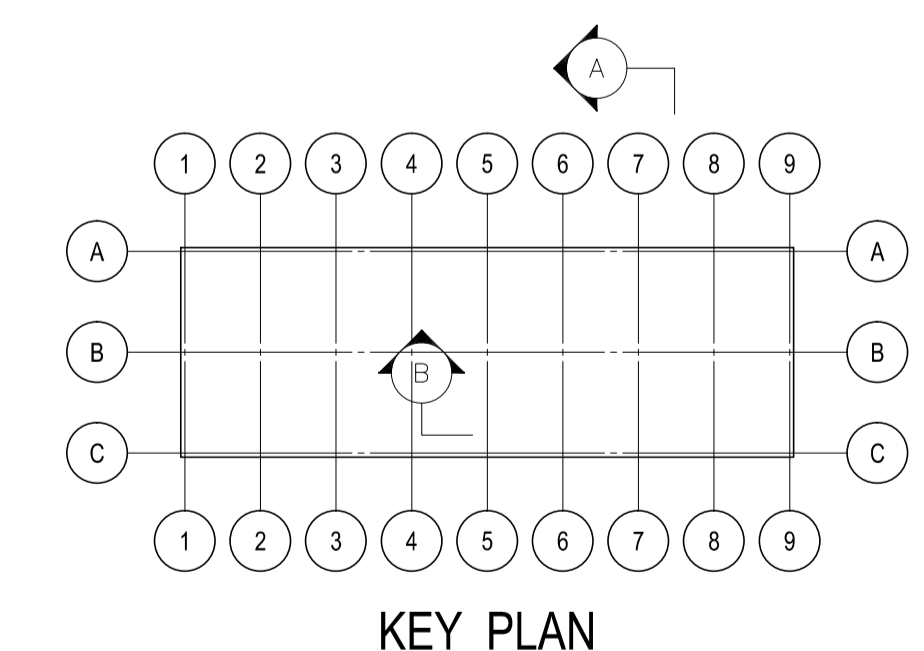
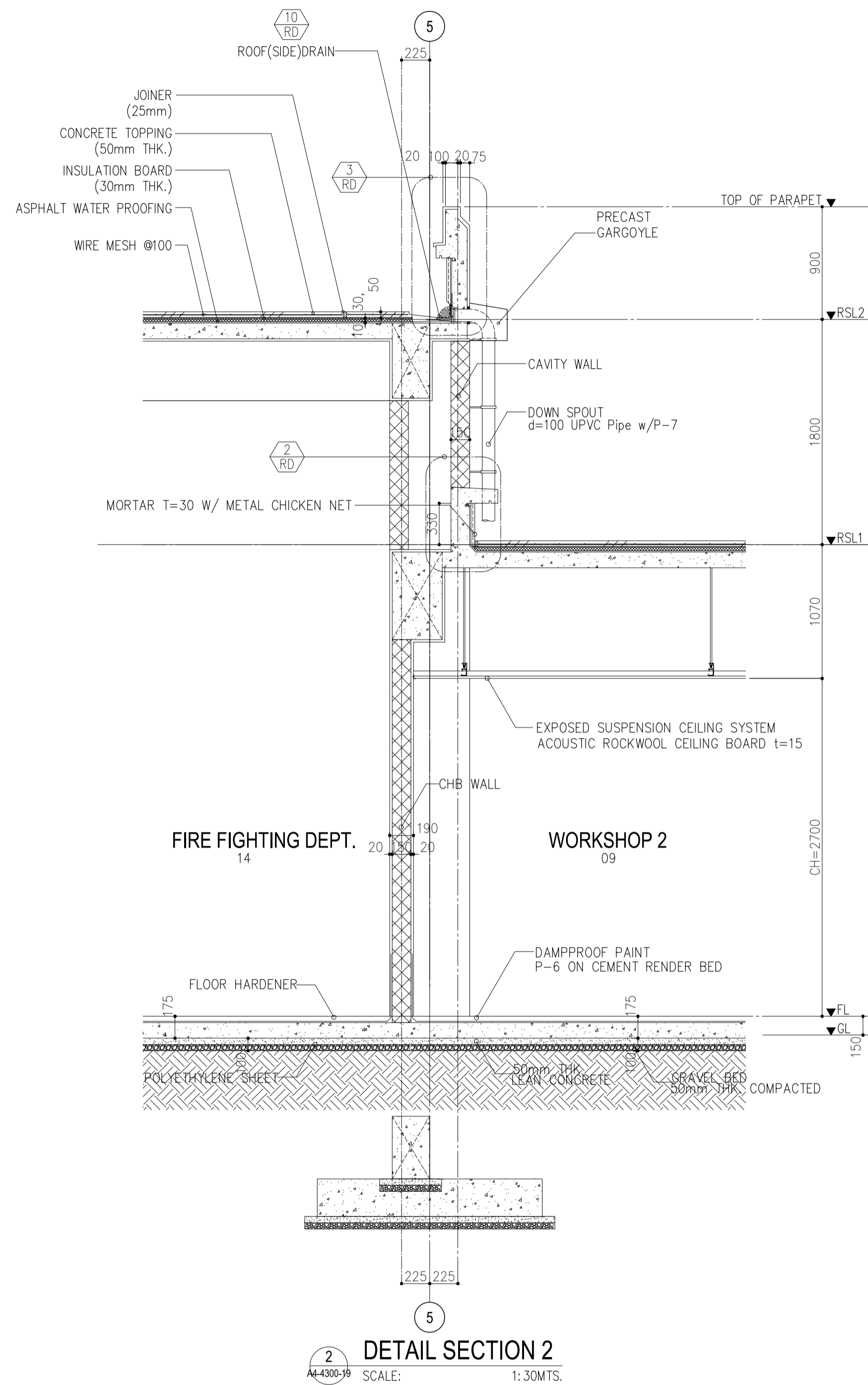
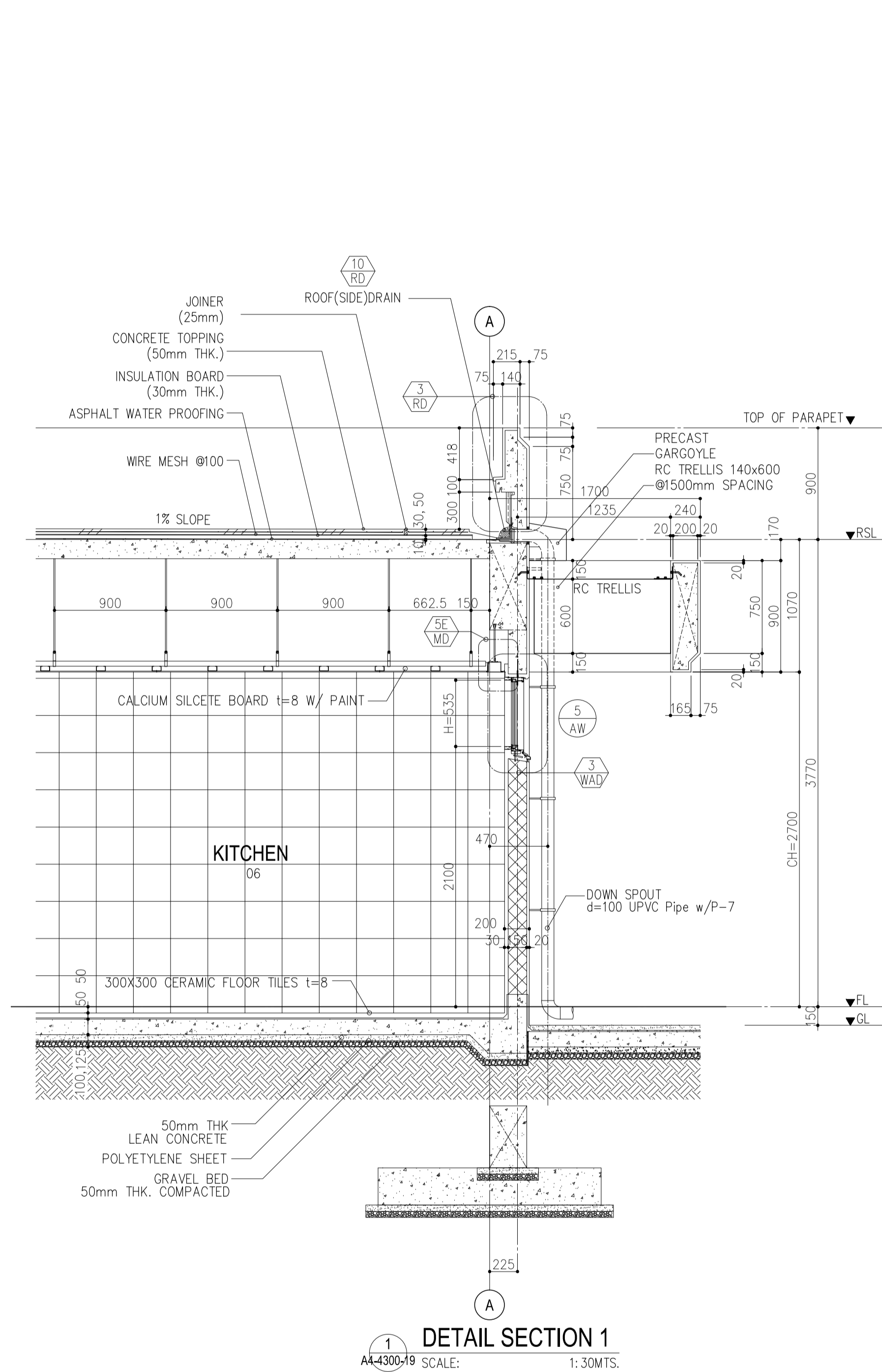
**LEGEND: CEILING MATERIALS**

|  |                                                                              |
|--|------------------------------------------------------------------------------|
|  | C1 EXPOSED SUSPENSION CEILING SYSTEM<br>ACOUSTIC ROCKWOOL CEILING BOARD t=15 |
|  | C3 CALCIUM SILICATE BOARD t=8 W/ P-4                                         |
|  | C4 FORMED FACED CONCRETE                                                     |
|  | C6 GYPSUM BOARD<br>t=12 + t=9 W/ PAINT                                       |

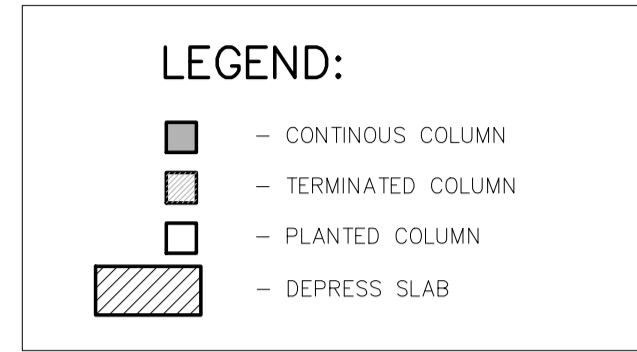
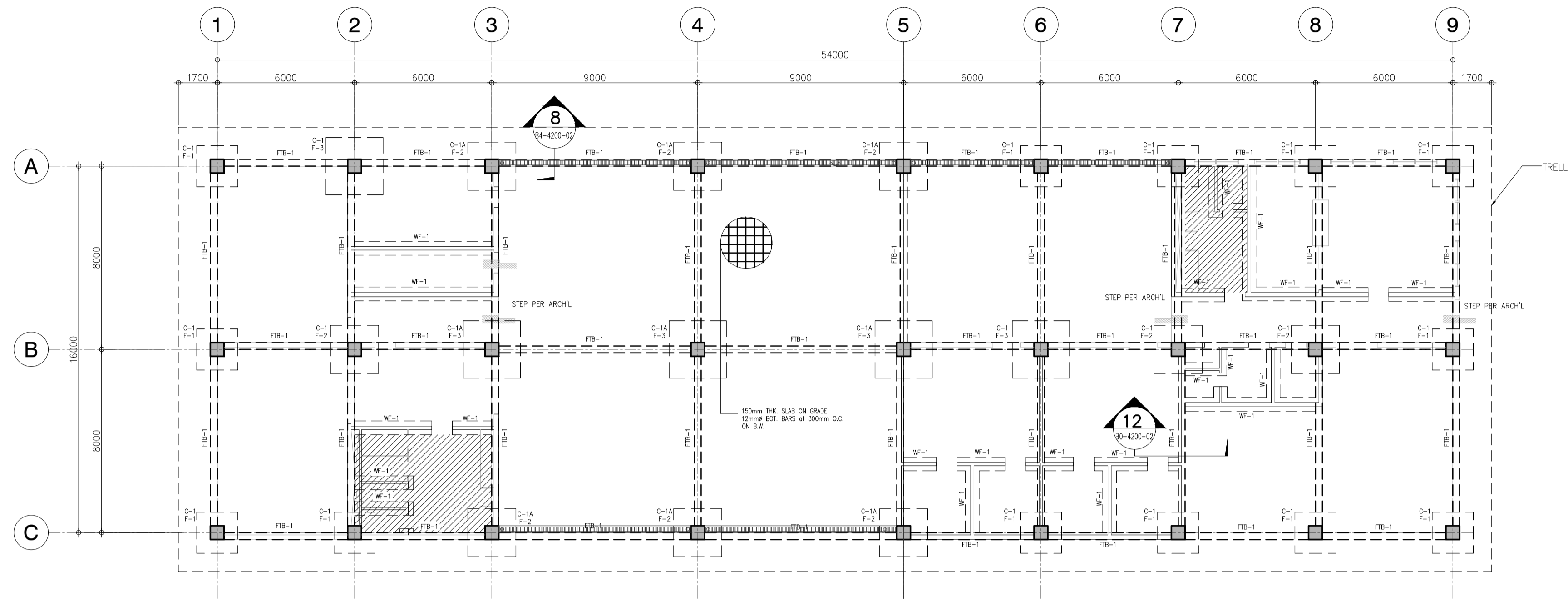
**1 FIRE STATION & MAINTENANCE BUILDING**  
 REFLECTED CEILING PLAN SCALE : 1:100 MTS.

|  |                                                                                                                                                                                          |                                                                                                                                              |                                                                                                                              |                                                                                                                                                                             |                                                                                                                                                                  |                                                                |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR. 3911137<br/>         REG. NO.: 4623 DATE: MAY 9, 2013<br/>         T.N. 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary<br/>         for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary<br/>         for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b><br>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL REFLECTED CEILING PLAN | SHEET NO:<br><b>B4-4300-17</b><br>DRAWING SCALE:<br>1:100 MTS. |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAPAN INTERNATIONAL COOPERATION AGENCY                                                                                                           | JAC JAPAN AIRPORT CONSULTANTS, INC.<br>NIPPON KOEI CO., LTD.<br>NIS CONSULTANTS CO., LTD.                                                    | TADASHI AOI<br>Team Leader                                                                                                   | JULIANITO G. BUCAYAN, JR.<br>Undersecretary for Project Implementation, DOTC                                                                                                | DATE: JUNE 2013<br>INDEX<br>AMENDMENTS<br>Prepared by: WIM<br>Checked by: HC<br>Validated by:                                                                    | SHEET NO:<br><b>B4-4300-17</b><br>DRAWING SCALE:<br>1:100 MTS. |





|  |                                                                                                                                                                          |                                                                                                                                     |                                                                                                                        |                                                                                                        |                                                                   |                                                                                                                                                                |                                                     |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
|  | PREPARED BY:<br><b>WILLIAM I. MALLONGA</b><br><small>PROF: Architect PIR: 3911137<br/>REG. NO.: 4623 DATE: MAY 9, 2013<br/>F.I.N. 150-564-196 PLACE: MAKATI CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary<br/>for Project Implementation, DOTC</small> | APPROVED BY:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary<br/>for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 BUILDING WORKS (B)<br>SUBCOMPONENT-4-4<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING ARCHITECTURAL SECTION DETAIL 1 & 2 | SHEET NO:<br><b>B4-4300-19</b>                      |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br><b>JAC</b> JAPAN AIRPORT CONSULTANTS, INC.                                                                                       | NIPPON KOEI CO., LTD.                                                                                                               | NIS CONSULTANTS CO., LTD.                                                                                              | DATE: JUNE 2013                                                                                        | INDEX:                                                            | AMENDMENTS:                                                                                                                                                    | Prepared by: WIM<br>Checked by: HC<br>Validated by: |



**GENERAL FOUNDATION NOTES:**

A. SEE SHEET B0-4200-01 TO B0-4200-02 FOR GENERAL STRUCTURAL NOTES AND TYPICAL WALL CONSTRUCTION NOTES.

B. ALL COLUMN FOOTINGS ARE CENTERED ON COLUMN AND COLUMNS ARE CENTERED ON GRIDS UNO.

C. DIMENSION ON THIS PLAN ARE CENTER TO CENTER OF COLUMNS

D. THE INDICATED TOP OF FOOTING ELEVATION (DATUM: GROUND FLR LVL = 0.00m)  
 TYP TFE UNO: -1.50m  
 TYP T/O FTB ELEV: -0.60m

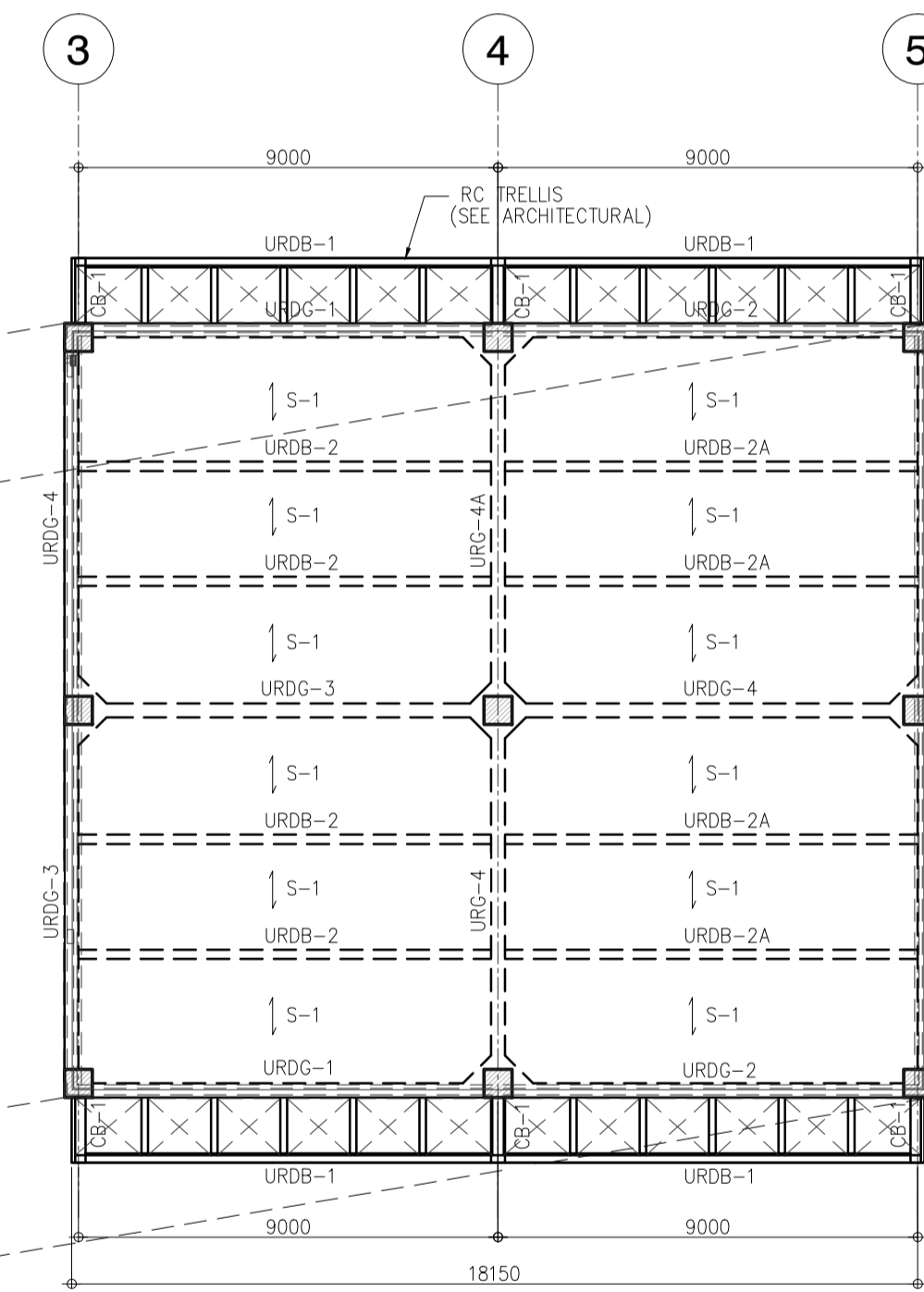
E. VERIFY SIZE, LOCATION AND DEPTH OF UTILITIES AND SLEEVES WITH OTHER TRADES.

F. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF RECESSES, SLABS, SLOPED AREAS IN SLABS ON GRADE, AND CURBS AT EXTERIOR BUILDING FACE.

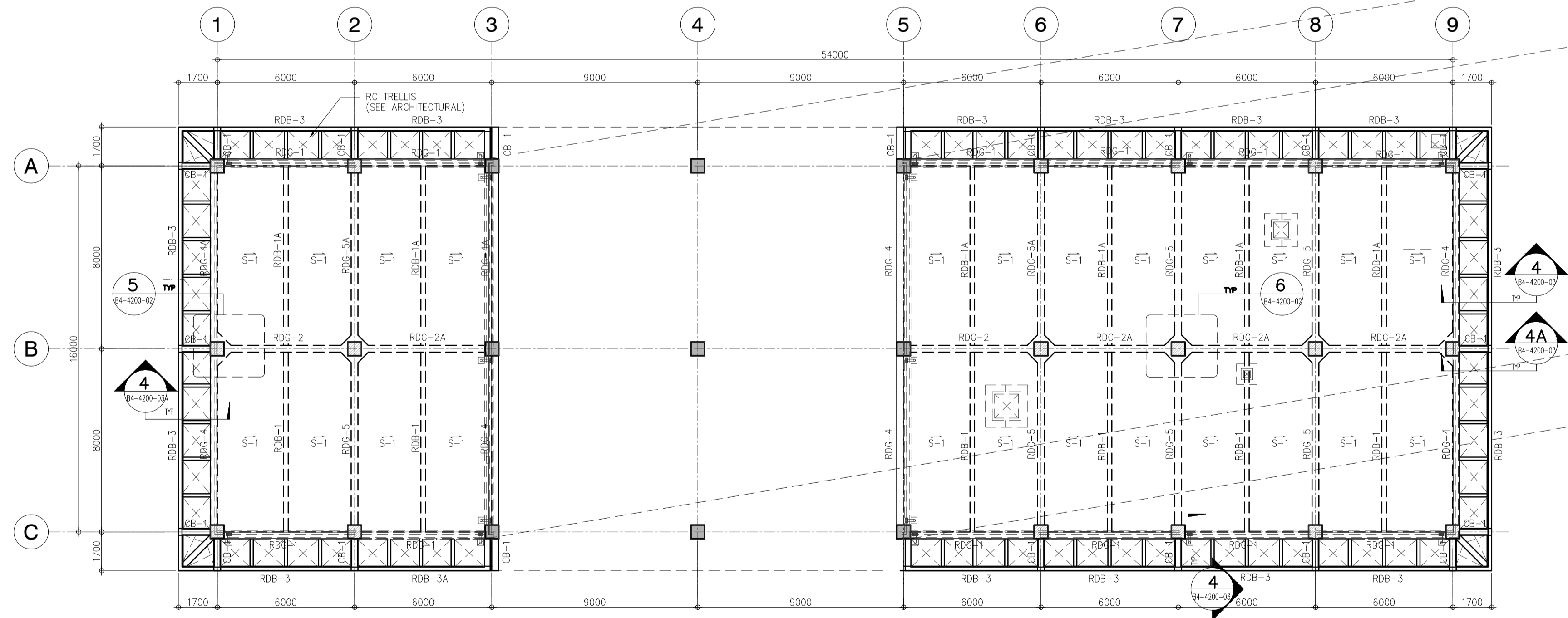
G. F1, F2 ETC ON PLAN DENOTES CONC FOOTING. SEE SHEET B4-4200-04.

H. C1, C2 ETC ON PLAN DENOTES COLUMNS. SEE SHEET B4-4200-04.

**1 FIRE STATION / AIRPORT MAINTENANCE BLDG FOUNDATION PLAN**  
 B4-4200-01 SCALE 1 : 150 M.

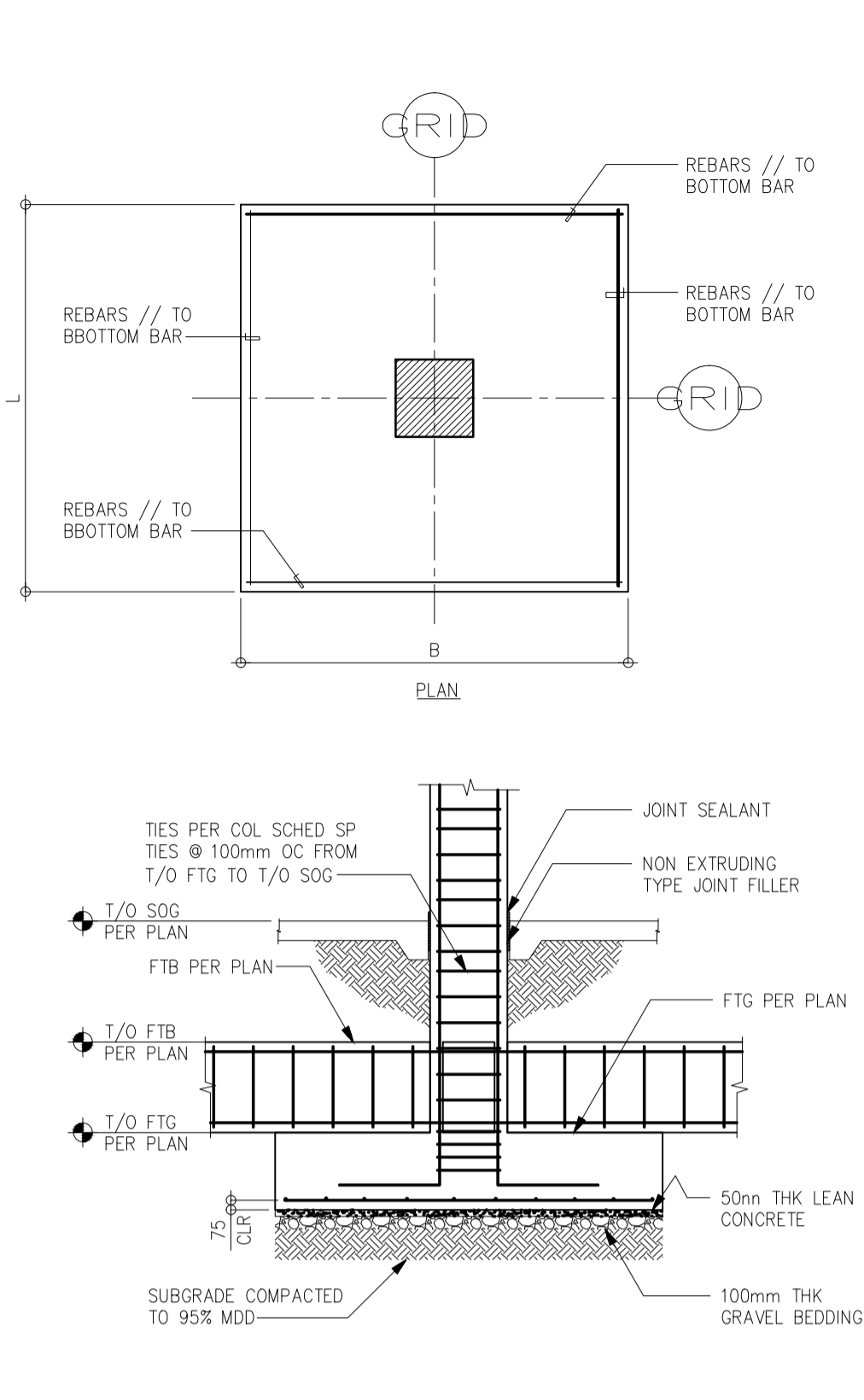


**3 FIRE STATION / AIRPORT MAINTENANCE BLDG UPPER ROOF DECK FRAMING PLAN**  
 B4-4200-03 SCALE 1 : 150 M.

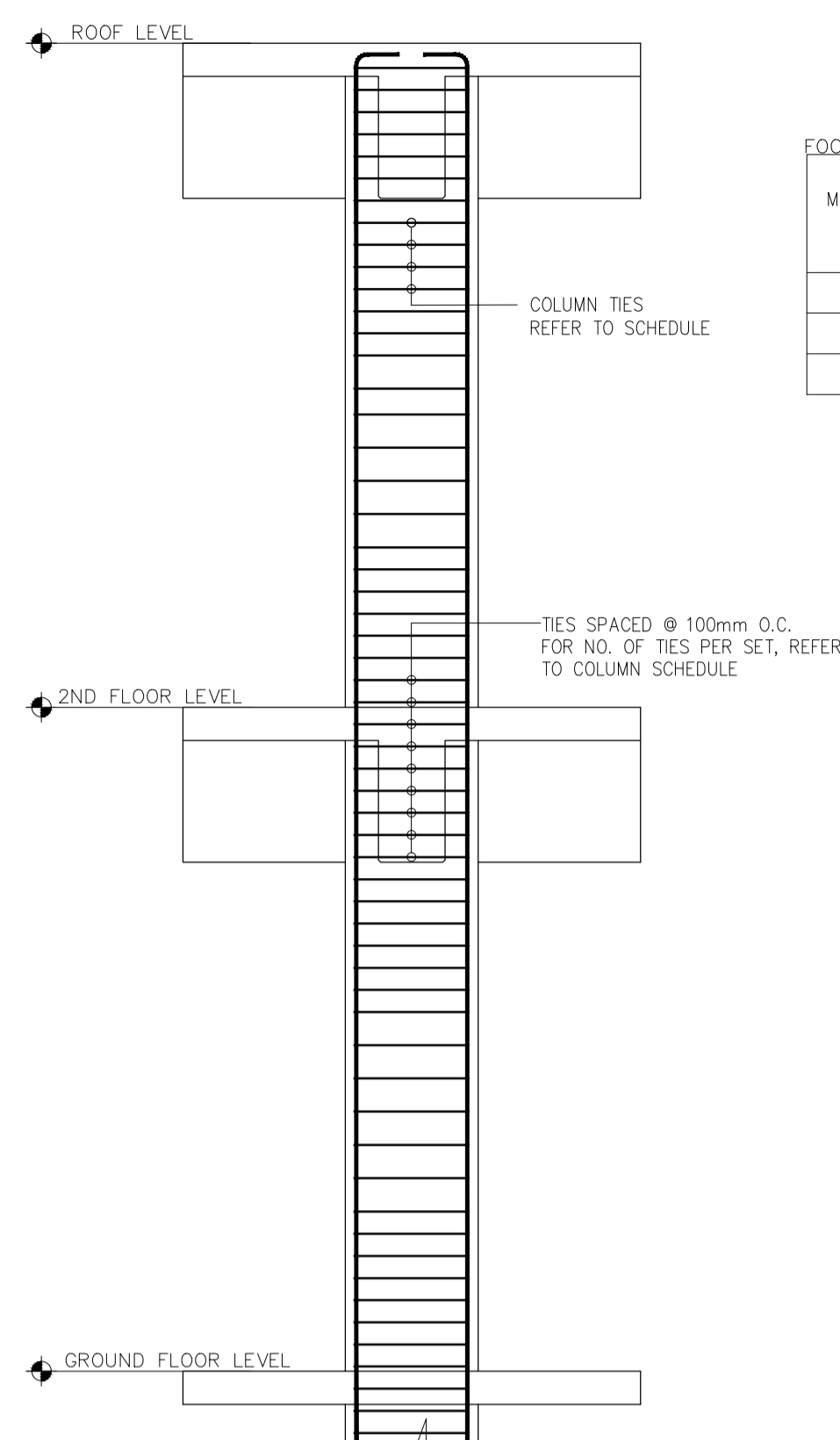


**2 FIRE STATION / AIRPORT MAINTENANCE BLDG ROOF DECK FRAMING PLAN**  
 B4-4200-02 SCALE 1 : 150 M.

|  |                                                                                                                                                                                                  |                                                                                                                                              |                                                                                                                              |                                                                                                                                                                             |                                                                                                                                                                                                                |                                                                 |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|  | PREPARED BY:<br><b>EDGARDO C. CRUZ</b><br><small>PROF. CIVIL ENGINEER PTR. 7589023B<br/>         REG. NO.: 23983 DATE: JANUARY 03, 2013<br/>         TEL. 651-157-021 PLACE: QUEZON CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary<br/>         for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary<br/>         for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b><br>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4 : BUILDING WORKS (B)<br>SUB-COMPONENT 4-4 : FIRE STATION & AIRPORT MAINTENANCE BUILDING<br>STRUCTURAL FOUNDATION PLAN<br>ROOF DECK FRAMING PLAN<br>UPPER ROOF DECK FRAMING PLAN | SHEET NO:<br><b>B4-4200-01</b><br>DRAWING SCALE:<br>1 : 100 MTS |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.                                                                          | TADASHI AOI<br>Team Leader                                                                                                                   | ILDEFONSO T. PATDU, JR.<br>Assistant Secretary<br>for Project Implementation, DOTC                                           | JULIANITO G. BUCAYAN, JR.<br>Undersecretary<br>for Project Implementation, DOTC                                                                                             | DATE: JUNE 2013<br>INDEX: AMENDMENTS: Prepared by: FRS Jr. Checked by: WIM Validated by: IIC                                                                                                                   | SHEET NO: B4-4200-01                                            |

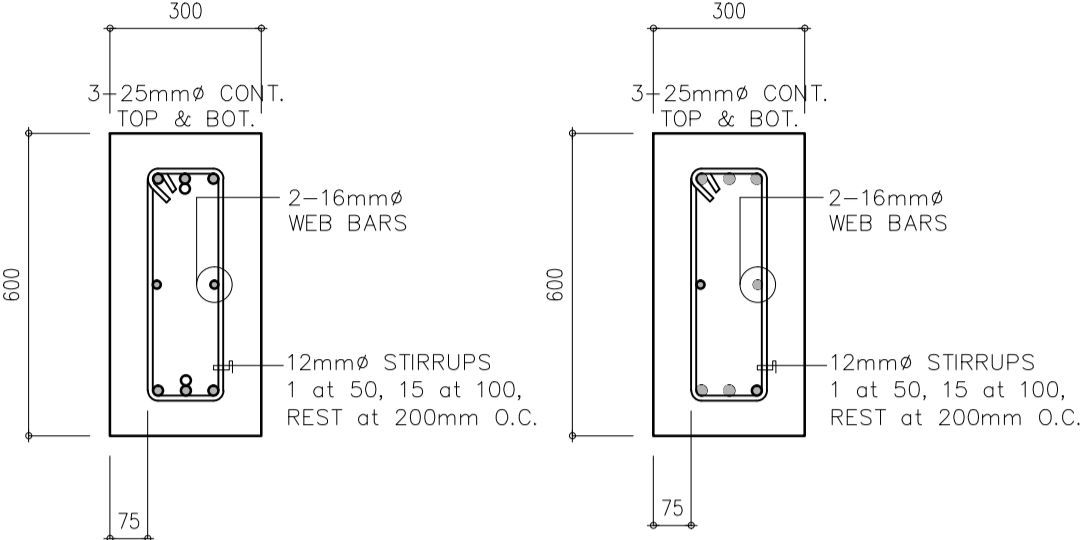


**1** TYP. ISOLATED FOOTING DETAIL WITH CONCRETE COLUMN  
SCALE: 1 : 50 MTS



**2** COLUMN ELEVATION SHOWING TIE SPACING  
SCALE: 1 : 30 MTS

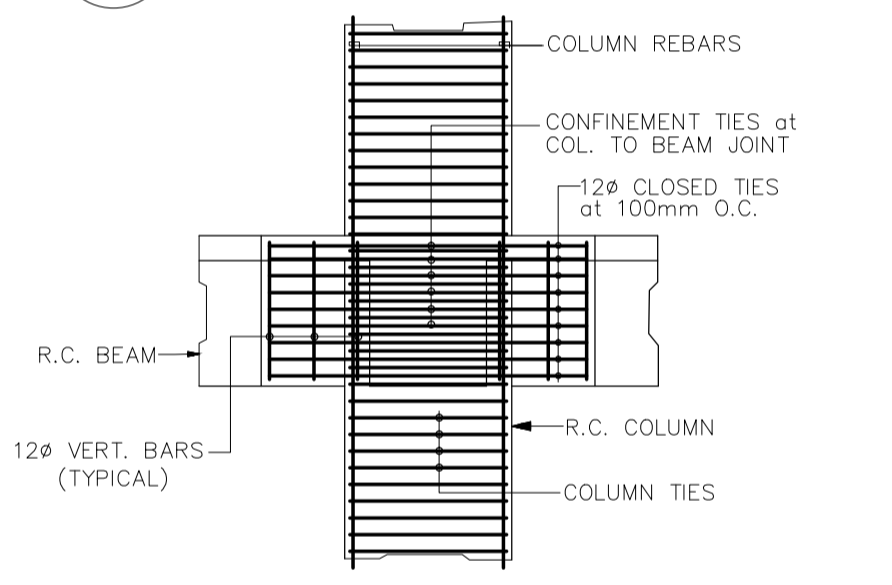
| MARK | DIMENSIONS |           |               | REINFORCEMENTS |                |                |                | REMARKS |
|------|------------|-----------|---------------|----------------|----------------|----------------|----------------|---------|
|      | LENGTH (L) | WIDTH (B) | THICKNESS (T) | TOP            |                | BOTTOM         |                |         |
|      |            |           |               | BARS // TO "L" | BARS // TO "B" | BARS // TO "L" | BARS // TO "B" |         |
| F1   | 2200       | 2200      | 500           | -              | -              | 9-16mm $\phi$  | 9-16mm $\phi$  |         |
| F2   | 2300       | 2300      | 500           | -              | -              | 12-16mm $\phi$ | 12-16mm $\phi$ |         |
| F3   | 2400       | 2400      | 500           | -              | -              | 18-16mm $\phi$ | 18-16mm $\phi$ |         |



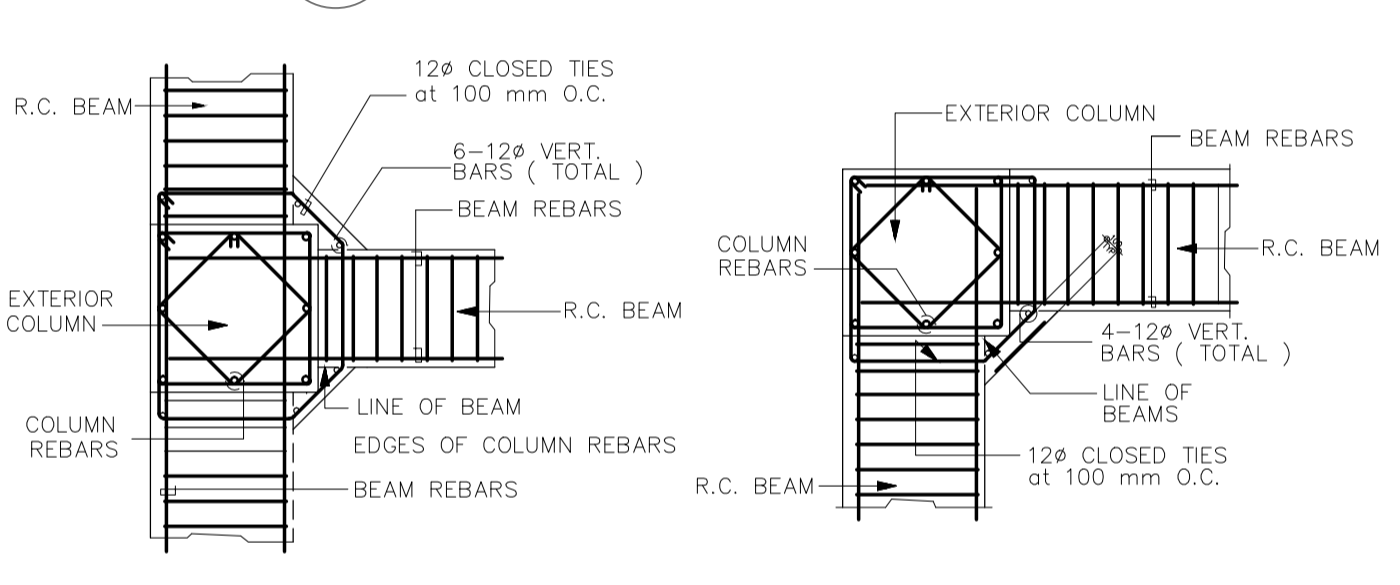
**3** FOOTING TIE BEAM DETAIL  
SCALE: 1 : 15 MTS

**3** FOOTING TIE BEAM DETAIL  
SCALE: 1 : 15 MTS

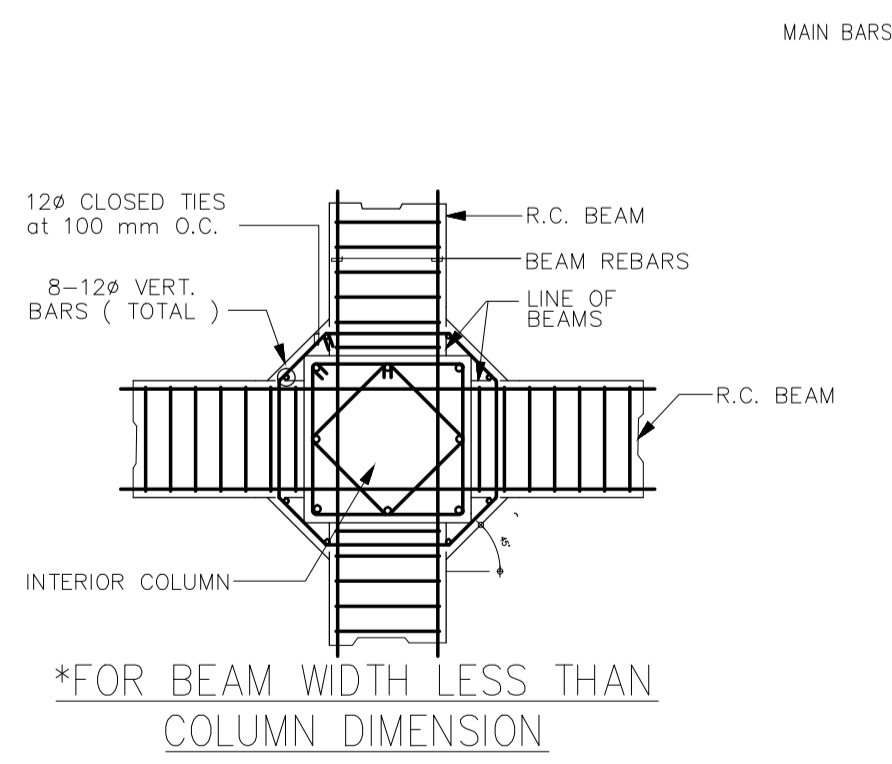
| LEVEL MARK                 | MARK       | REINFORCEMENT                                                                                                           |
|----------------------------|------------|-------------------------------------------------------------------------------------------------------------------------|
| UPPER TO ROOF DECK LEVEL   | C-1 A      | 600x600mm<br>REBARS: 16-25mm $\phi$<br>TIES: 3 SETS 12mm $\phi$ , 1 $\phi$ 50mm, 10 $\phi$ 100, REST @ 150mm OC TO M.H. |
| ROOFDECK TO GROUND LEVEL   | C-1, C-1 A | 600x600mm<br>REBARS: 16-25mm $\phi$<br>TIES: 3 SETS 12mm $\phi$ , 1 $\phi$ 50mm, 10 $\phi$ 100, REST @ 150mm OC TO M.H. |
| GROUND LEVEL TO FOUNDATION | C-1, C-1 A | 670x670mm<br>REBARS: 16-25mm $\phi$<br>TIES: 3 SETS 12mm $\phi$ , 1 $\phi$ 50mm, 10 $\phi$ 100, REST @ 150mm OC TO M.H. |



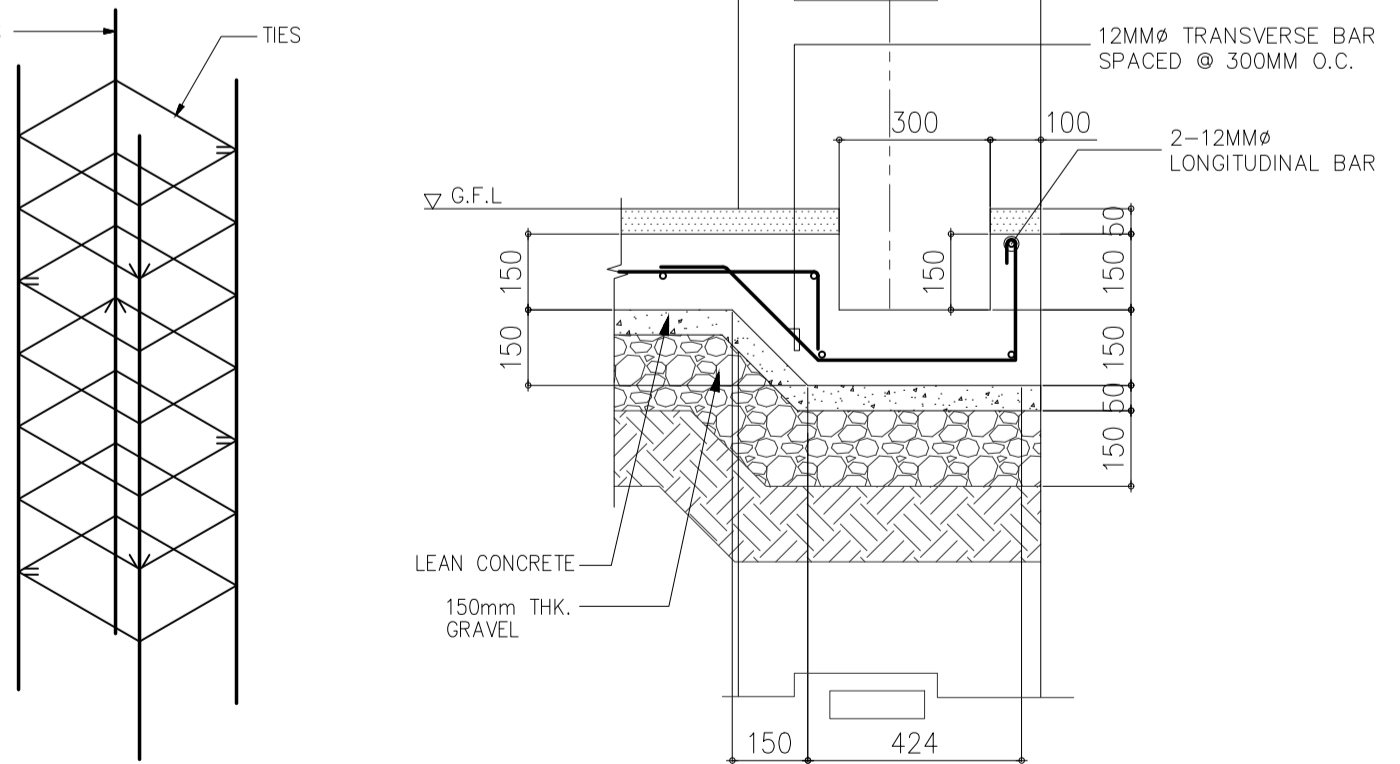
**4** TYP. BEAM TO COLUMN JOINT ELEVATION  
SCALE: 1 : 50 MTS



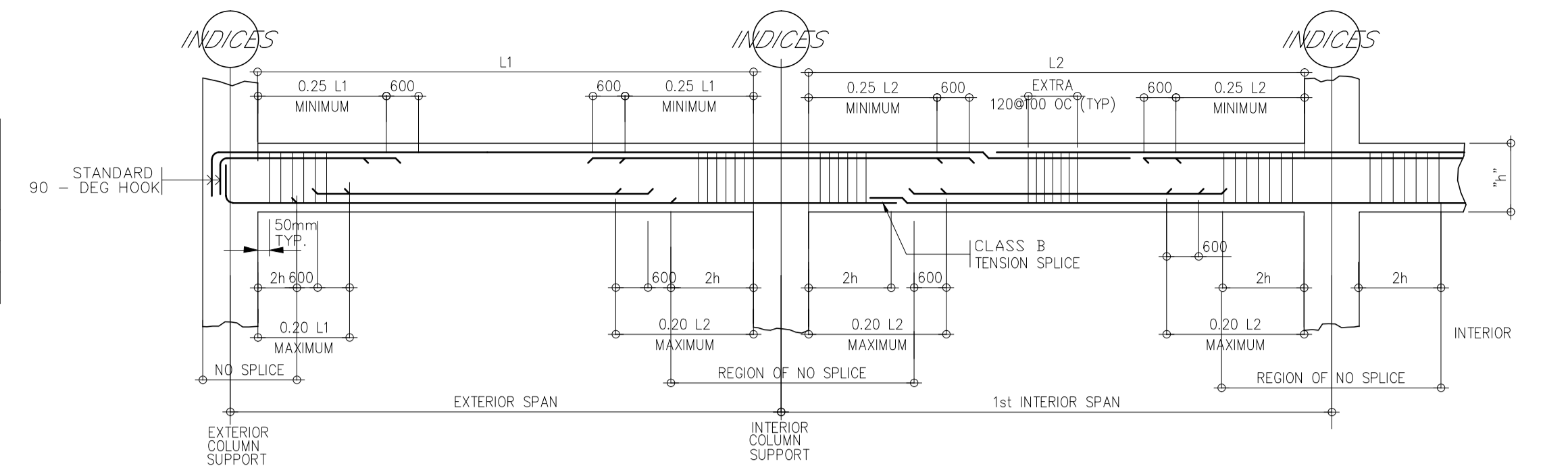
**5** TYP. EXTERIOR BEAM TO COLUMN JOINT ELEVATION  
SCALE: 1 : 50 MTS



**6** TYP. EXTERIOR BEAM TO COLUMN JOINT ELEVATION  
SCALE: 1 : 50 MTS



**8** CABLE TRENCH DETAIL SECTION  
SCALE: 1 : 15 MTS



**7** TYPICAL BAR DETAILS FOR PRISMATIC GIRDERS  
NOTE: FOR ADJACENT BEAMS/GIRDERS W/ DIFFERENT NO. OF BARS, THE GREATER SHALL GOVERN.

| MARK   | SIZE    | REBAR | LOC | LEFT | MIDSPAN | RIGHT | WEB BARS | STIRRUPS                               | REMARKS    |
|--------|---------|-------|-----|------|---------|-------|----------|----------------------------------------|------------|
| RDB-1  | 300X500 | 25    | TOP | 2    | 2       | 7     |          | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |            |
| RDB-1A | 300X500 | 25    | TOP | 7    | 2       | 2     |          | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |            |
| RDB-3  |         | 25    | BOT | 3    | 4       | 3     |          |                                        | SEE DETAIL |

|        |          |    |     |   |   |   |  |                                        |  |
|--------|----------|----|-----|---|---|---|--|----------------------------------------|--|
| RDG-1  | 300X1650 | 25 | TOP | 3 | 2 | 3 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |
| RDG-2  | 400X500  | 25 | TOP | 5 | 2 | 6 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |
| RDG-2A | 400X500  | 25 | TOP | 6 | 2 | 6 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |

|         |         |    |     |   |   |   |  |                                        |            |
|---------|---------|----|-----|---|---|---|--|----------------------------------------|------------|
| URDB-1  |         |    |     |   |   |   |  |                                        | SEE DETAIL |
| URDB-2  | 300X550 | 25 | TOP | 4 | 3 | 5 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |            |
| URDB-2A | 300X550 | 25 | TOP | 5 | 3 | 5 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |            |

|        |          |    |     |   |   |   |  |                                        |  |
|--------|----------|----|-----|---|---|---|--|----------------------------------------|--|
| URDG-1 | 300X1650 | 25 | TOP | 5 | 2 | 5 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |
| URDG-2 | 300X1650 | 25 | TOP | 5 | 2 | 5 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |
| URDG-3 | 350X550  | 25 | TOP | 5 | 3 | 5 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |
| URDG-4 | 350X550  | 25 | TOP | 5 | 3 | 5 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |

|      |         |    |     |   |   |   |  |                                        |  |
|------|---------|----|-----|---|---|---|--|----------------------------------------|--|
| CB-1 | 300X560 | 25 | TOP | 3 | 2 | 3 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |
|------|---------|----|-----|---|---|---|--|----------------------------------------|--|

|        |         |    |     |    |   |    |  |                                        |  |
|--------|---------|----|-----|----|---|----|--|----------------------------------------|--|
| URG-4  | 400X700 | 25 | TOP | 6  | 4 | 11 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |
| URG-4A | 400X700 | 25 | TOP | 11 | 4 | 7  |  | -do-                                   |  |

|        |         |    |     |   |   |   |  |                                        |  |
|--------|---------|----|-----|---|---|---|--|----------------------------------------|--|
| RDG-4  | 300X500 | 25 | TOP | 4 | 3 | 5 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |
| RDG-4A | 300X500 | 25 | TOP | 5 | 3 | 5 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |
| RDG-5  | 300X500 | 25 | TOP | 5 | 3 | 5 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |
| RDG-5A | 300X500 | 25 | TOP | 5 | 2 | 4 |  | 1-10mm, 1 $\phi$ 50, rest @ 100mm O.C. |  |

Republic of the Philippines  
DEPARTMENT OF TRANSPORTATION  
AND  
COMMUNICATIONS

**JICA**  
JAPAN  
INTERNATIONAL  
COOPERATION  
AGENCY

JICA DESIGN CONSULTANT JOINT VENTURE

**JAC** JAPAN AIRPORT  
CONSULTANTS,  
INC.

**NIPPON KOEI**  
CO., LTD.

**NIS CONSULTANTS**  
CO., LTD.

PREPARED BY: EDGARDO C. CRUZ  
PROF. CIVIL ENGINEER PTR. 7589023B  
RES. NO.: 23983 DATE: JANUARY 03, 2013  
TEL. 661-157-021 PLACE: QUEZON CITY

RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR.  
Assistant Secretary  
for Project Implementation, DOTC

APPROVED: JULIANITO G. BUCAYAN, JR.  
Undersecretary  
for Project Implementation, DOTC

TADASHI AOI  
Team Leader

PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

SHEET CONTENTS: COMPONENT-4 : BUILDING WORKS (B) SUB-COMPONENT 4-4 : FIRE STATION & AIRPORT MAINTENANCE BUILDING

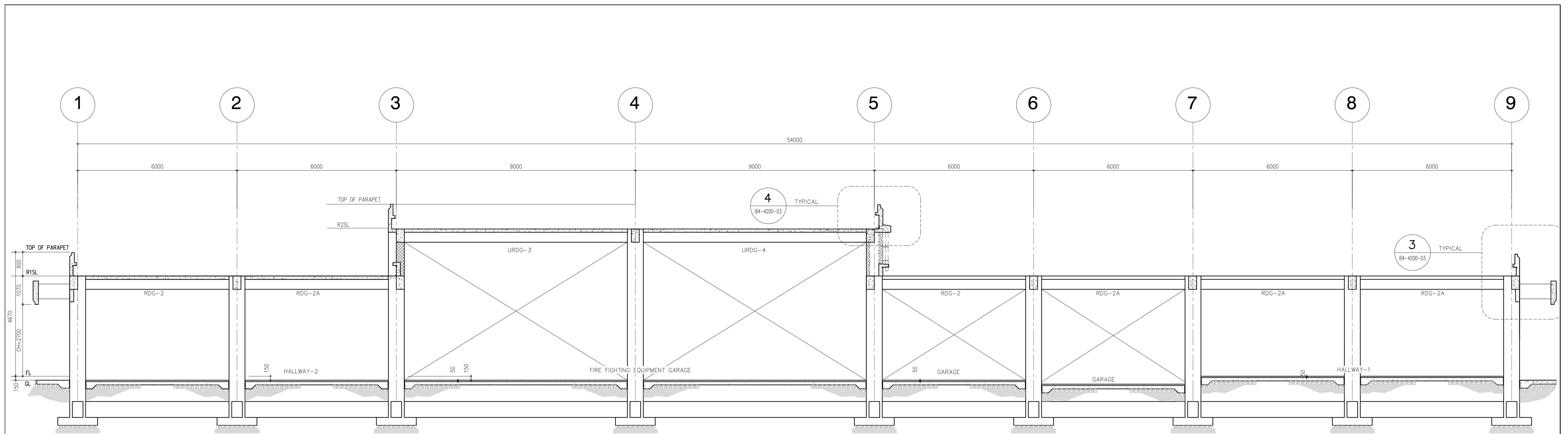
SHEET NO: B4-4200-02

DRAWING SCALE: AS SHOWN

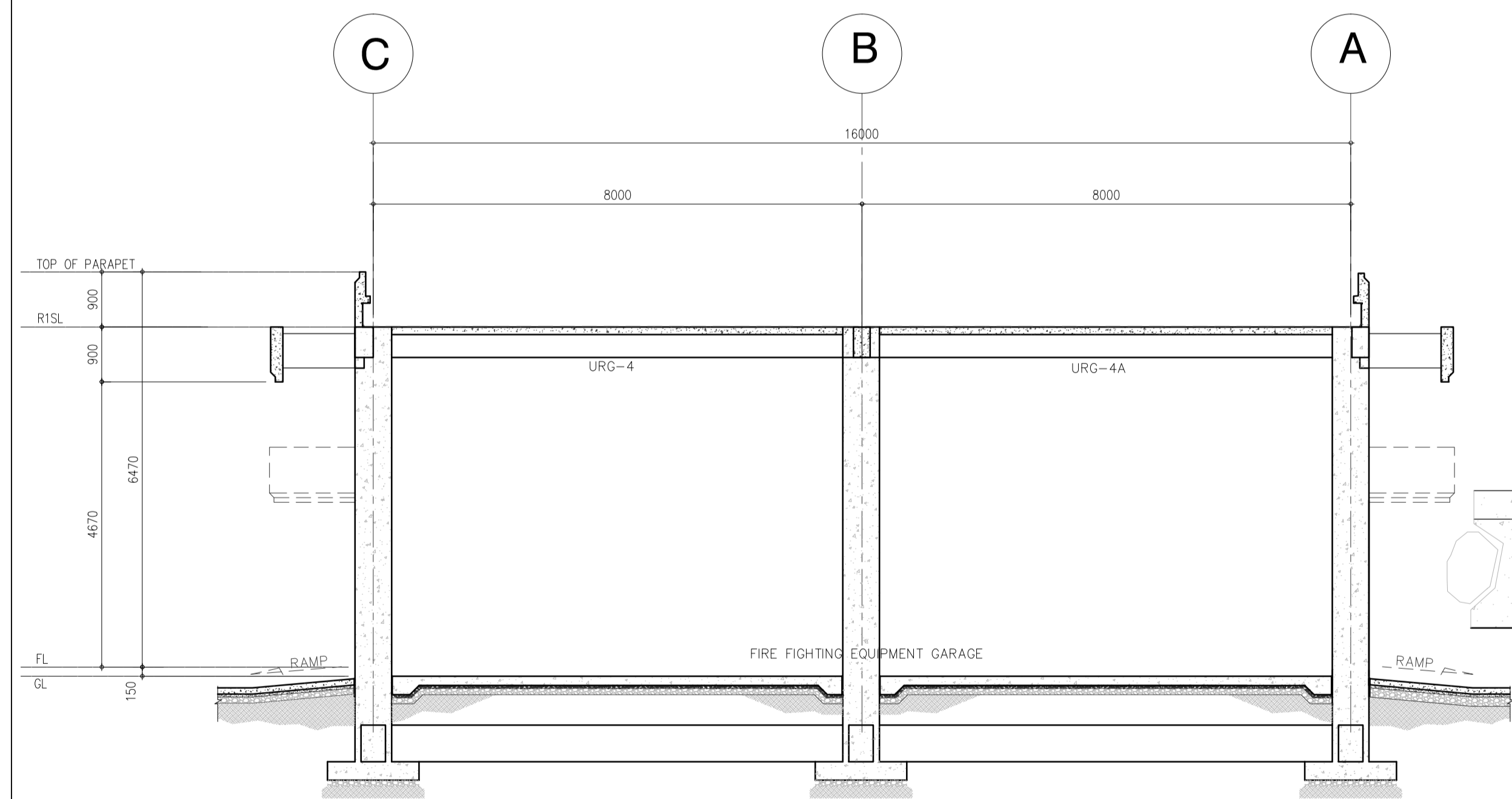
DATE INDEX AMENDMENTS

Prepared by: FRS Jr. WIM IIC  
Checked by: Validated by:

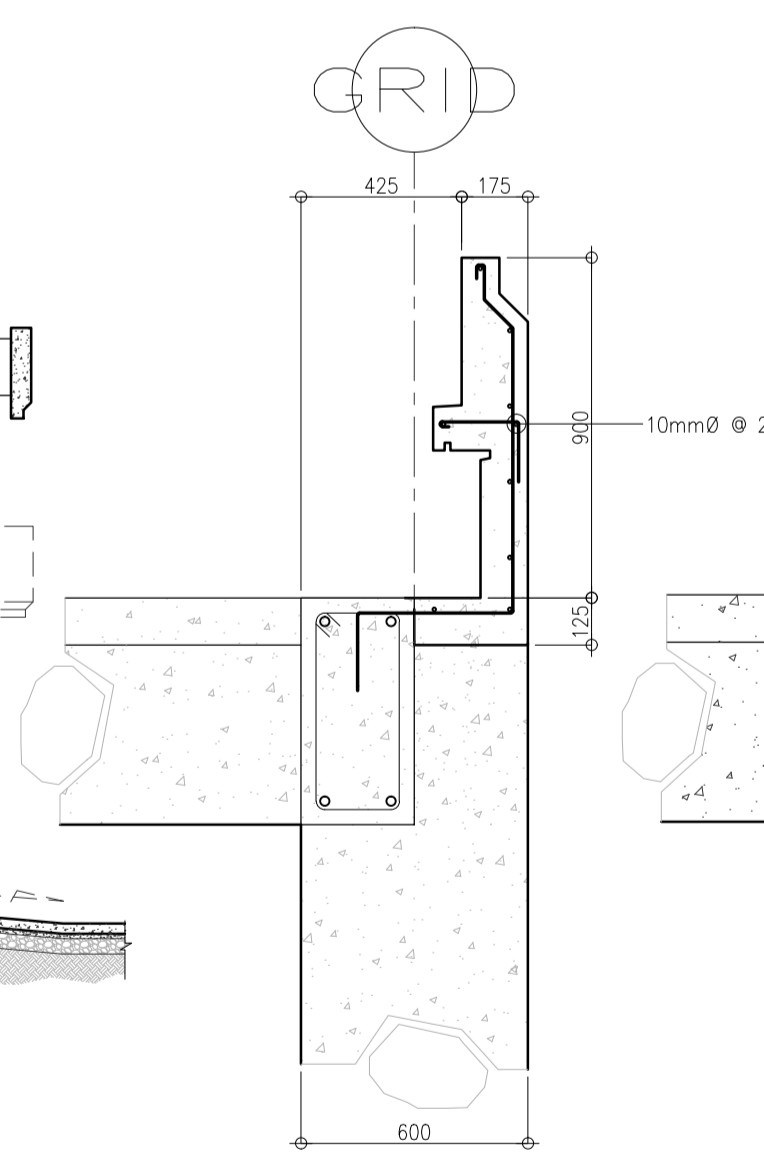
STRUCTURAL TIE BEAM, CHB WALL/RC WALL AND COLUMN DETAILS



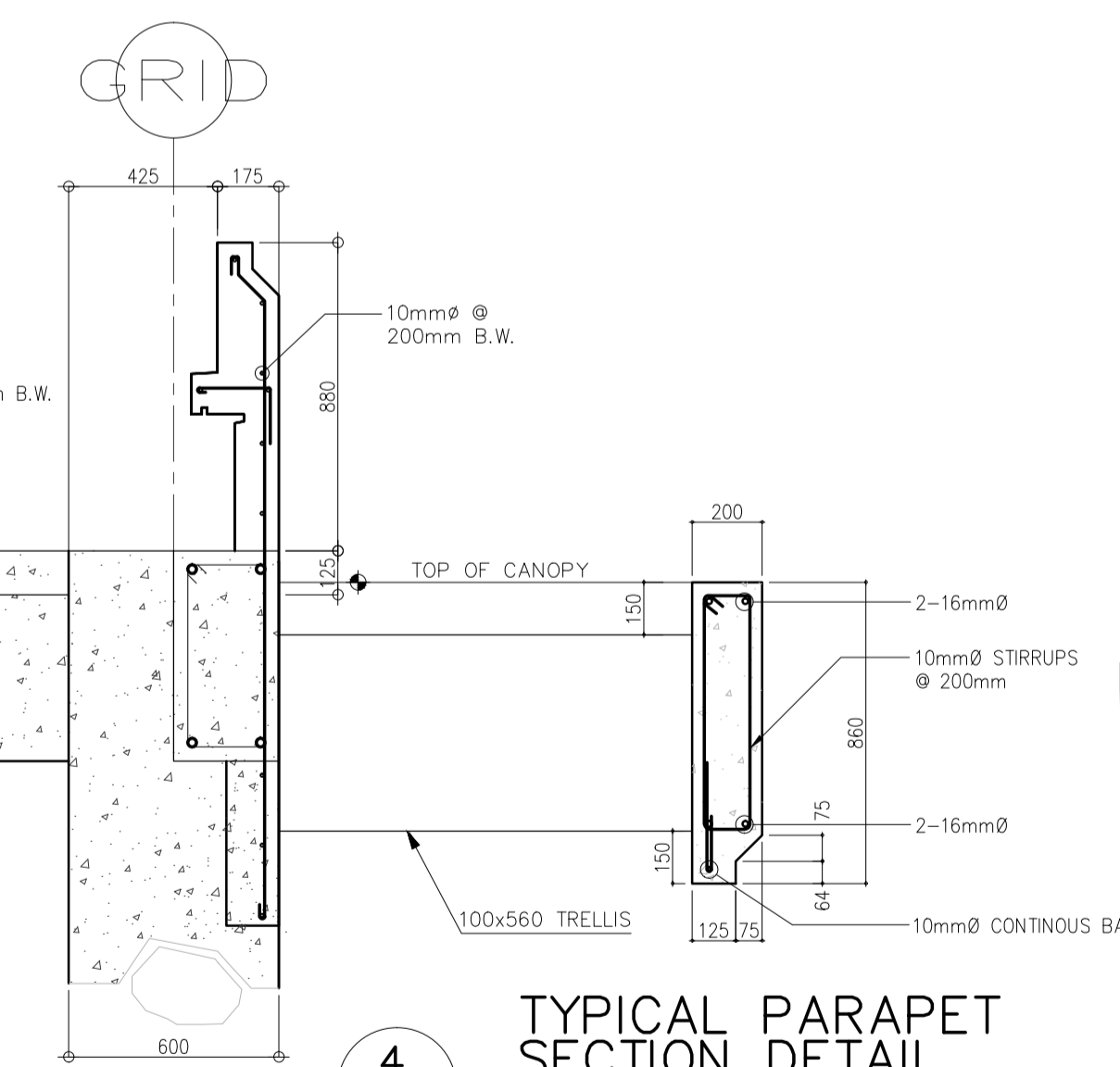
**1 ELEVATION ALONG GRID B**  
 B4-4200-03 SCALE 1 : 75 MTS



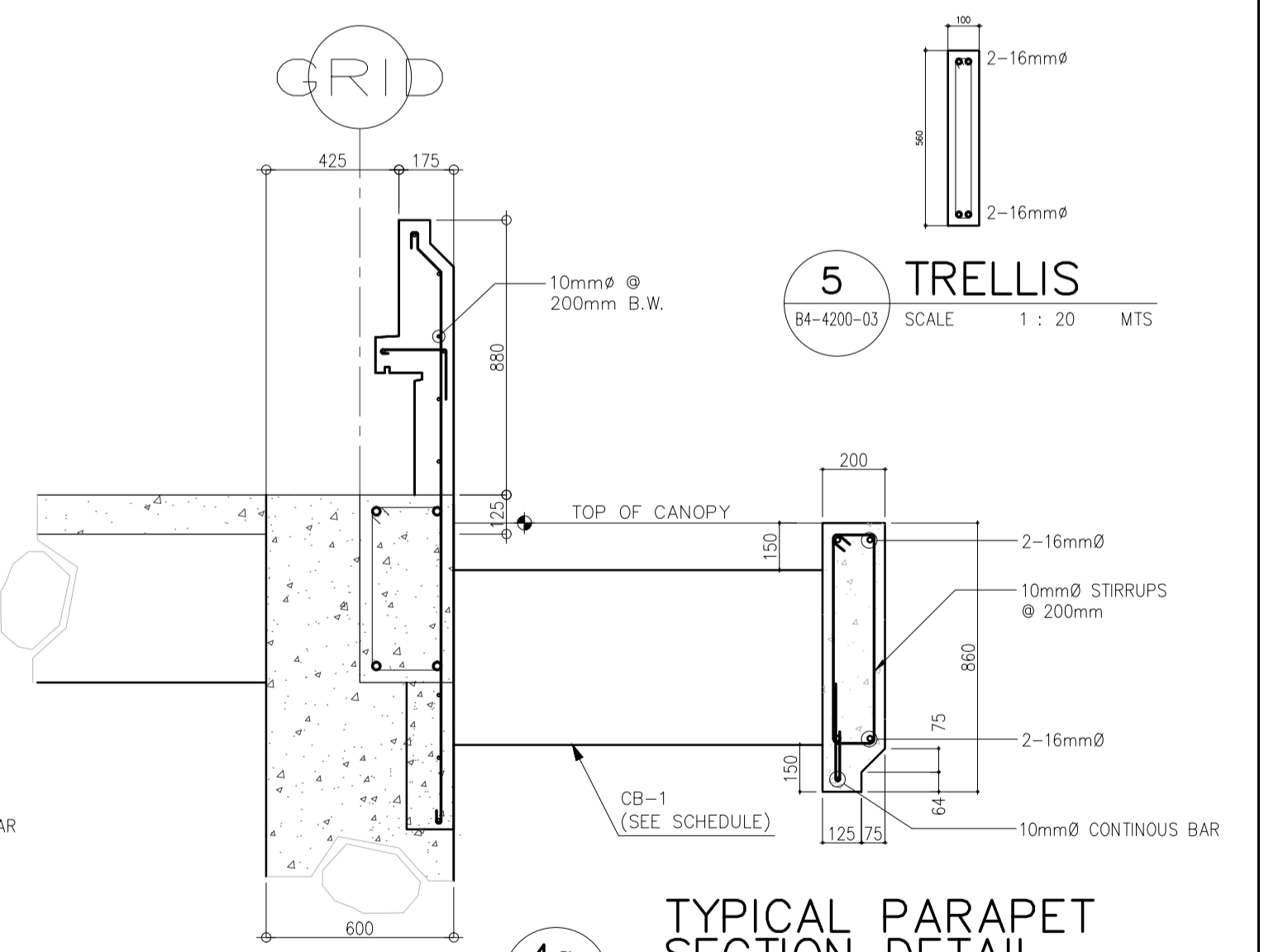
**2 ELEVATION ALONG GRID 4**  
 B4-4200-03 SCALE 1 : 75 MTS



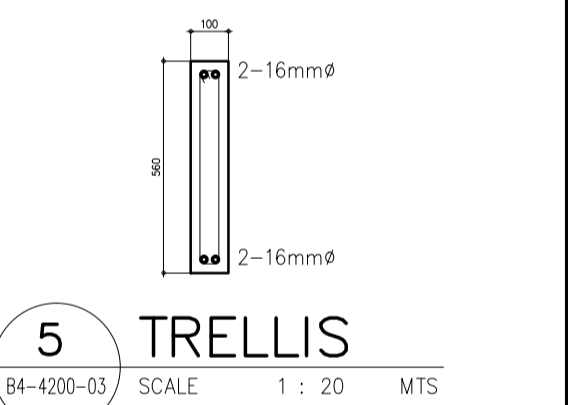
**3 TYPICAL PARAPET SECTION DETAIL**  
 B4-4200-03 SCALE 1 : 20 MTS



**4 TYPICAL PARAPET SECTION DETAIL**  
 B4-4200-03 SCALE 1 : 20 MTS



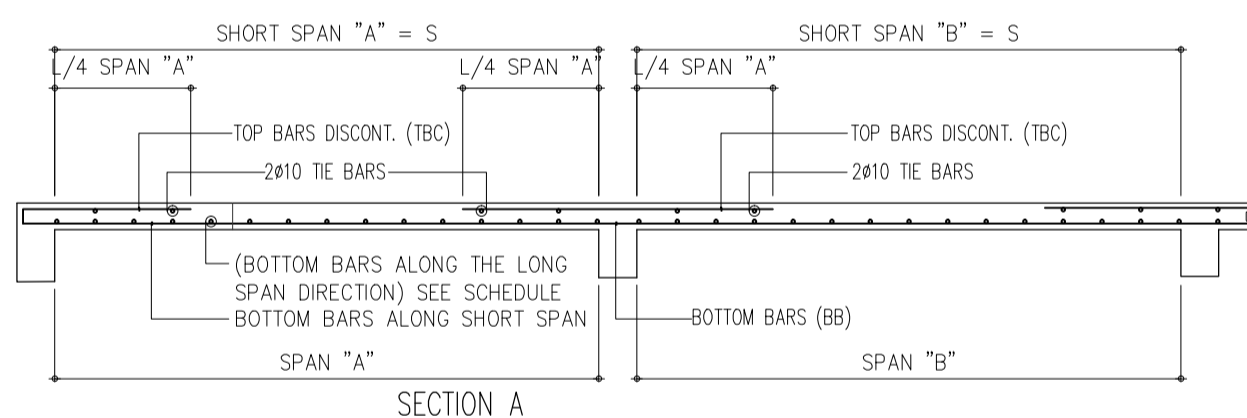
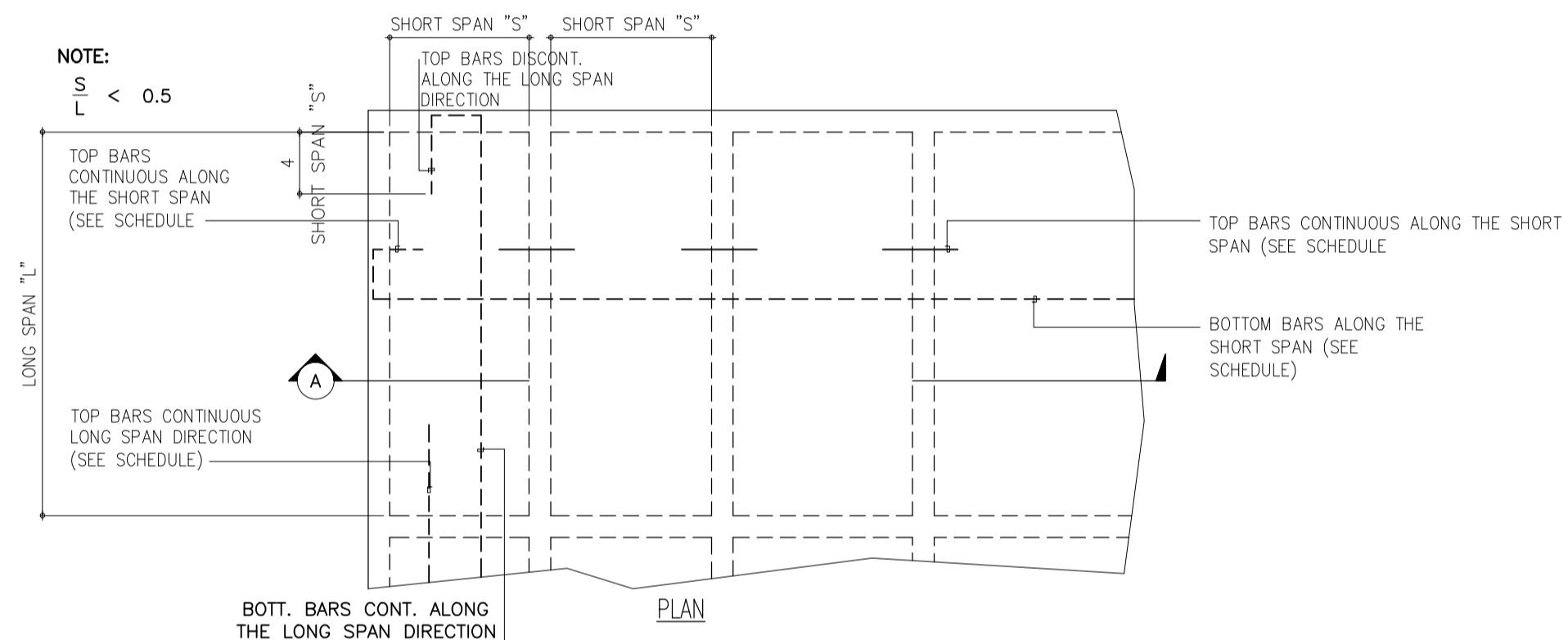
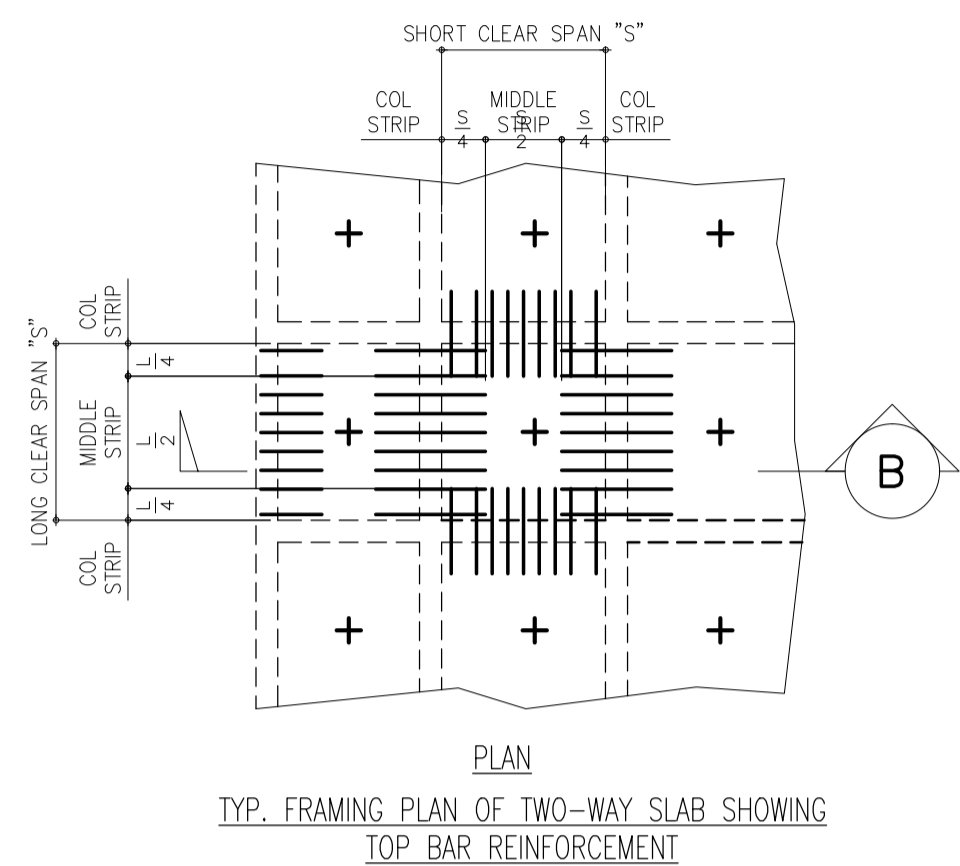
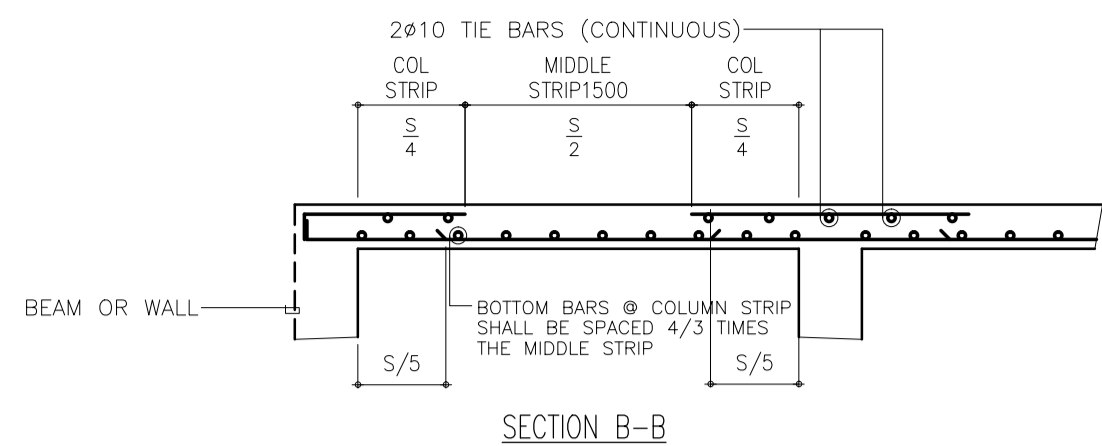
**4a TYPICAL PARAPET SECTION DETAIL**  
 B4-4200-03 SCALE 1 : 20 MTS



**5 TRELLIS**  
 B4-4200-03 SCALE 1 : 20 MTS

|  |                                                                                                                                                                                                    |                                                                                                                                              |                                                                                                                              |                                                                                                          |                                                                                                                       |                                                                      |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|  | PREPARED BY:<br><b>EDGARDO C. CRUZ</b><br><small>PROF. CIVIL ENGINEER PIR. 7589023B<br/>         REG. NO.: 23983 DATE: JANUARY 03, 2013<br/>         T.E.N. 651-157-021 PLACE: QUEZON CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary<br/>         for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary<br/>         for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b>   | SHEET CONTENTS:<br>COMPONENT-4: BUILDING WORKS (B)<br>SUB-COMPONENT 4-4 : FIRE STATION & AIRPORT MAINTENANCE BUILDING | SHEET NO:<br><b>B4-4200-03</b>                                       |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br><b>JAC</b> JAPAN AIRPORT CONSULTANTS, INC.                                                                                                                 | TADASHI AOI<br><small>Team Leader</small>                                                                                                    | ILDEFONSO T. PATDU, JR.<br><small>Assistant Secretary<br/>         for Project Implementation, DOTC</small>                  | JULIANITO G. BUCAYAN, JR.<br><small>Undersecretary<br/>         for Project Implementation, DOTC</small> | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES                                                     | STRUCTURAL SECTION ELEVATION ALONG GRID B & 4<br>CS-1 SECTION DETAIL |





NOTES:  
1. IF TOP BARS OF ADJACENT SLABS DIFFER AT THEIR COMMON SUPPORT THE SMALLER SPACING SHALL GOVERN

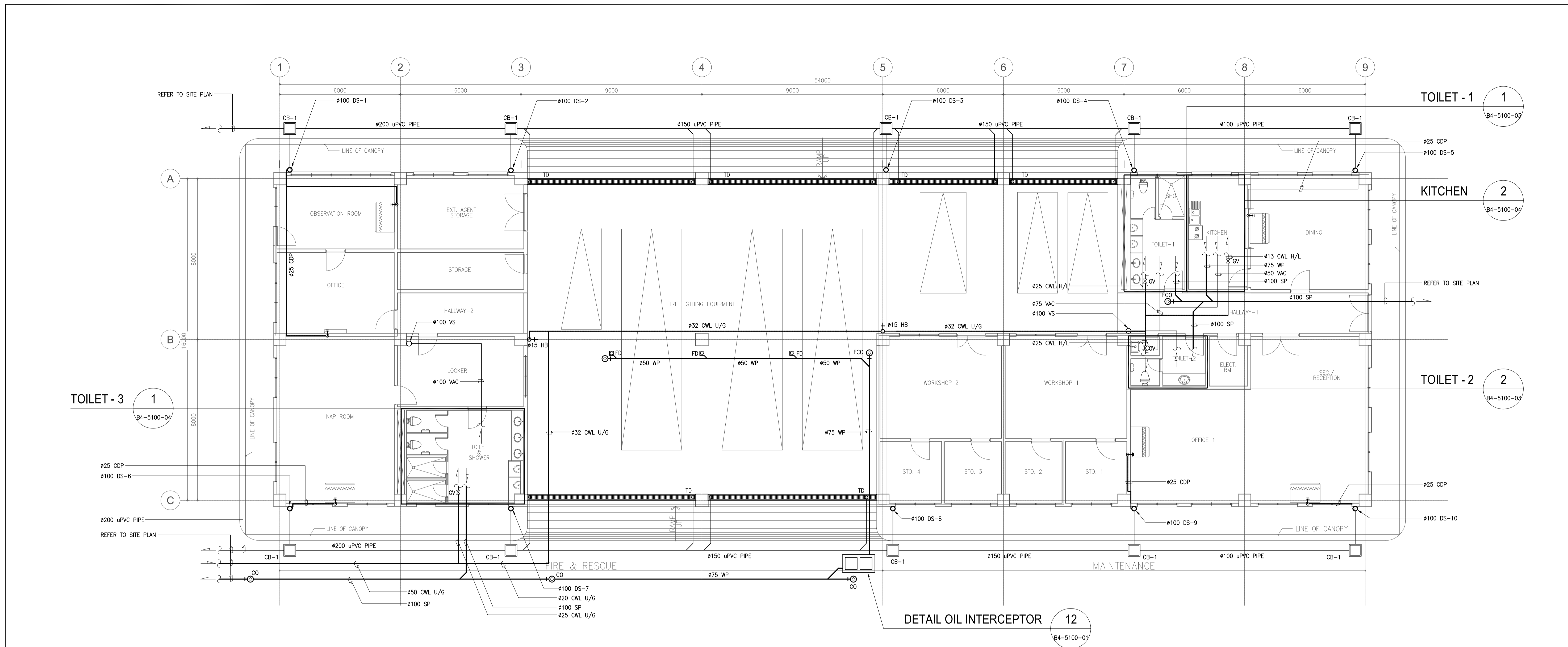
**1** ELEVATION OF RC SLABS  
B4-4200-04 SCALE 1 : 50 MTS

SCHEDULE OF R.C SLABS

| SLAB MARK | THICKNESS (mm) | BAR SIZE    | SHORT DIRECTION |           |           | LONG DIRECTION |           |           | REMARKS |
|-----------|----------------|-------------|-----------------|-----------|-----------|----------------|-----------|-----------|---------|
|           |                |             | BOTTOM MIDSPAN  | TOP BARS  |           | BOTTOM MIDSPAN | TOP BARS  |           |         |
|           |                |             |                 | CONT EDGE | DISC EDGE |                | CONT EDGE | DISC EDGE |         |
| S-1       | 100            | 10mm $\phi$ | 200mm           | 150mm     | 200mm     | 300mm          | 300mm     | 300mm     | ONE-WAY |

NOTE: IF THE TOP BARS OF ADJACENT SLABS DIFFER AT COMMON SUPPORT, THE SMALLER SPACING SHALL GOVERN

|  |                                                                                                                                                                                |                                                                                                                                 |                                                                                                                 |                                                                                                        |                                                                                                                       |                                |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------|
|  | PREPARED BY:<br><b>EDGARDO C. CRUZ</b><br><small>PROF. CIVIL ENGINEER PTR. 7589023B<br/>REG. NO.: 23983 DATE: JANUARY 03, 2013<br/>TEL. 651-157-021 PLACE: QUEZON CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | SHEET CONTENTS:<br>COMPONENT-4: BUILDING WORKS (B)<br>SUB-COMPONENT 4-4 : FIRE STATION & AIRPORT MAINTENANCE BUILDING | SHEET NO:<br><b>B4-4200-04</b> |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br><b>JAC</b> JAPAN AIRPORT CONSULTANTS, INC.                                                                                             | DATE: JUNE 2013<br>INDEX:                                                                                                       | AMENDMENTS:                                                                                                     | Prepared by: FRS Jr.<br>Checked by: WIM<br>Validated by: HC                                            | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES                                                     | STRUCTURAL SCHEDULE OF RC SLAB |



**1**  
**FIRE STATION AND AIRPORT MAINTENANCE BUILDING**  
**GROUND FLOOR PLUMBING PLAN**  
 SCALE 1:100M

**CATCH BASIN SCHEDULE:**

| SYMBOL | PIT NAME | PIT DIM. | PIT DEPTH | MANHOLE SPECS.               | REMARKS |
|--------|----------|----------|-----------|------------------------------|---------|
| □      | CB-1     | 500x500  | 825 (MIN) | R.C. COVER W/ LIFTING HANDLE |         |

**ELECTRIC COOKING HEATER:**

| EQUIPMENT DESIGNATION | HEATING | NUMBER OF COILS | DIAMETER OF COILS (MM) | ELECTRICAL CHARACTERISTICS |       |       | REMARKS                               |
|-----------------------|---------|-----------------|------------------------|----------------------------|-------|-------|---------------------------------------|
|                       |         |                 |                        | VOLTS                      | PHASE | HERTZ |                                       |
| EC-1                  | 2500 W  | 2               | 200                    | 230                        | 1     | 60    | 3D, HANABISHI BRAND OR APPROVED EQUAL |

**PLUMBING EQUIPMENT SCHEDULE:**

| ITEMS | DESIGNATION           | QTY. | TYPE                         | TECHNICAL SPECIFICATIONS / DESCRIPTIONS |        |       |                | CONTROLLERS & ACCESSORIES |                           | LOCATION                 | REMARKS |
|-------|-----------------------|------|------------------------------|-----------------------------------------|--------|-------|----------------|---------------------------|---------------------------|--------------------------|---------|
|       |                       |      |                              | MOTOR                                   | PHASE  | HERTZ | VOLTAGE RATING | MOTOR CONTROLS            | ACCESSORIES               |                          |         |
| EW-1  | ELECTRIC WATER HEATER | 3    | INSTANTANEOUS (SINGLE POINT) | -                                       | SINGLE | 50-60 | 220-240 V      | -                         | COMPLETE WITH ACCESSORIES | EACH SHOWER              | -       |
| EW-2  | ELECTRIC WATER HEATER | 2    | INSTANTANEOUS (MULTI POINT)  | -                                       | SINGLE | 50-60 | 220-240 V      | -                         | COMPLETE WITH ACCESSORIES | UNDER COUNTER LAVATORIES | -       |

**2**  
**SCHEDULE OF PLUMBING EQUIPMENT**  
 NOT TO SCALE

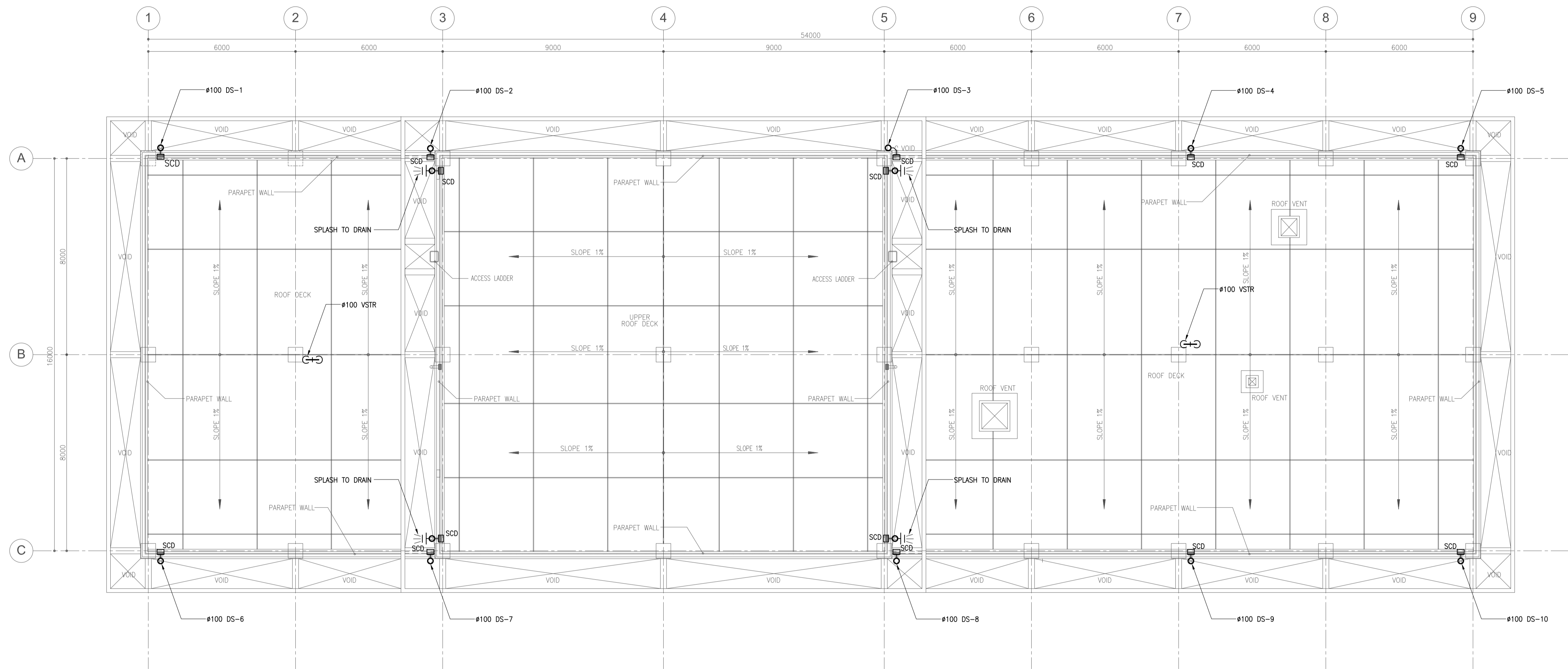
**SANITARY FIXTURE SCHEDULE:**

| SYMBOL | SANITARY FIXTURE NAME | REFERENCED MODEL NO. | Q'TY | REMARKS |
|--------|-----------------------|----------------------|------|---------|
| WC-3   | WATER CLOSET          | -                    | 4    |         |
| UR-3   | URINAL                | -                    | 4    |         |
| LAV-3  | LAVATORY              | -                    | 6    |         |
| SS     | SLOP SINK             | -                    | 1    |         |
| SHO    | SHOWER                | -                    | 3    |         |
| TPH    | TOILET PAPER HOLDER   | -                    | 4    |         |
|        | SOAP HOLDER           | -                    | 3    |         |
|        | PANTRY FAUCET         | -                    | 1    |         |

NOTE : SANITARY FIXTURE SHALL HAVE MANUFACTURER'S STANDARD ACCESSORIES.

**3**  
**SANITARY FIXTURE SCHEDULE**  
 NOT TO SCALE

|  |                                                                                                                                                                                                              |                                                                                                                                 |                                                                                                                 |                                                                                                                                                                             |                                                                                                                                                                                                                                                          |                                                                   |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|  | PREPARED BY:<br><b>LEOVIMEL J. VINELES</b><br><small>Filipino Registered Engineer</small><br>PROF. SANITARY ENGINEER PIR. 2024236<br>REG. NO. 0002435 DATE: 07-09-2013<br>TEL. 237-652-602-000 PLACE: MANILA | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b><br>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4: BUILDING WORKS (B)<br>SUBCOMPONENT-4-4:<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING<br>MECHANICAL SANITARY AND PLUMBING<br>GROUND FLOOR PLUMBING PLAN, SCHED. OF PLUMBING EQUIP'T. & SANITARY FIXTURE SCHEDULE | SHEET NO:<br><b>B4-5100-01</b><br>DRAWING SCALE:<br><b>1:100M</b> |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAPAN AIRPORT CONSULTANTS, INC.                                                                                                                                      | TADASHI AOI<br><small>Team Leader</small>                                                                                       | ILDEFONSO T. PATDU, JR.<br><small>Assistant Secretary for Project Implementation, DOTC</small>                  | JULIANITO G. BUCAYAN, JR.<br><small>Undersecretary for Project Implementation, DOTC</small>                                                                                 | DATE: JUNE 2013<br>INDEX: -<br>AMENDMENTS: -<br>Prepared by: WIM<br>Checked by: IIC<br>Validated by:                                                                                                                                                     |                                                                   |



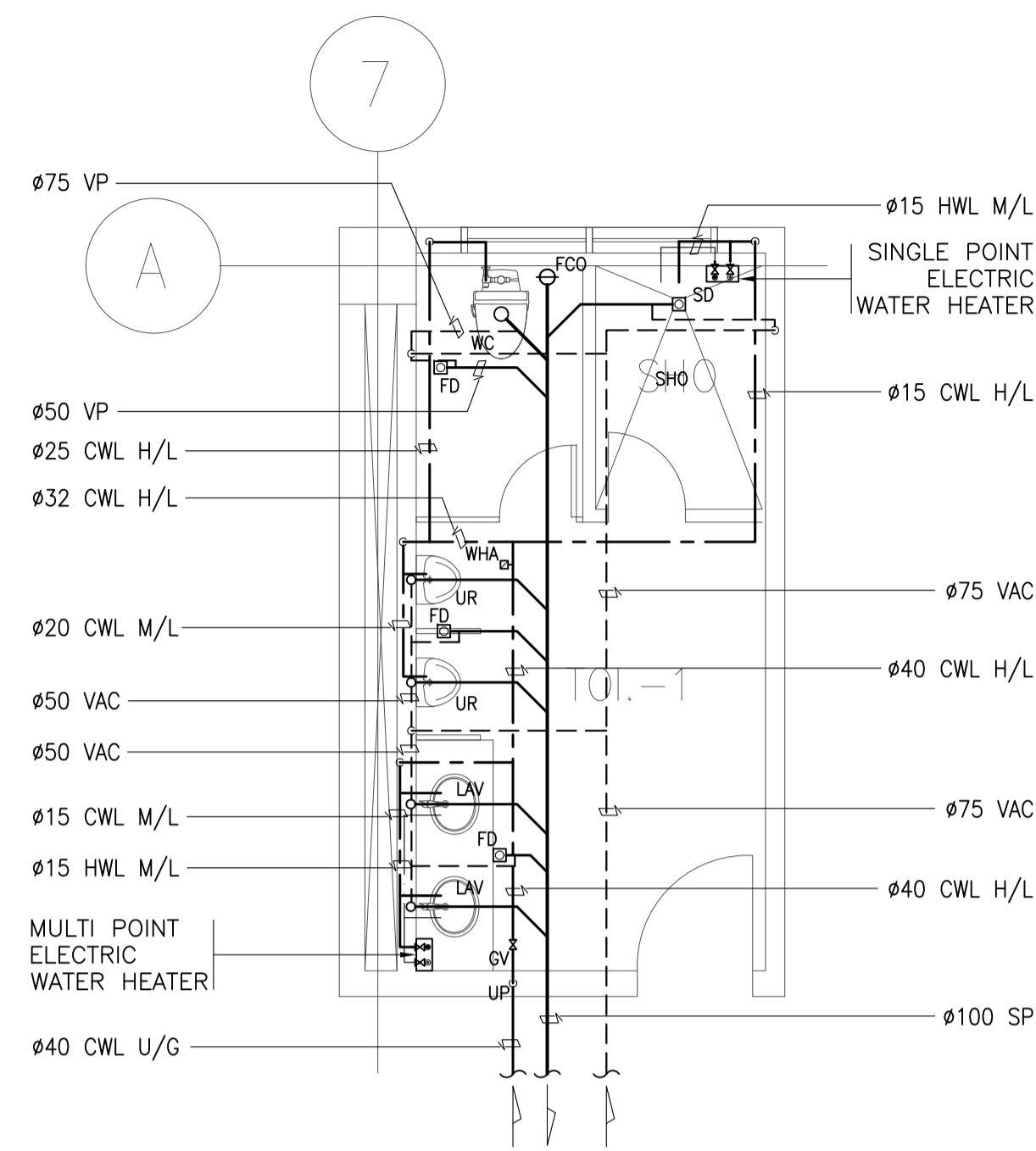
**FIRE STATION AND AIRPORT MAINTENANCE BUILDING  
ROOF DECK PLUMBING PLAN**

1  
B4-5100-02

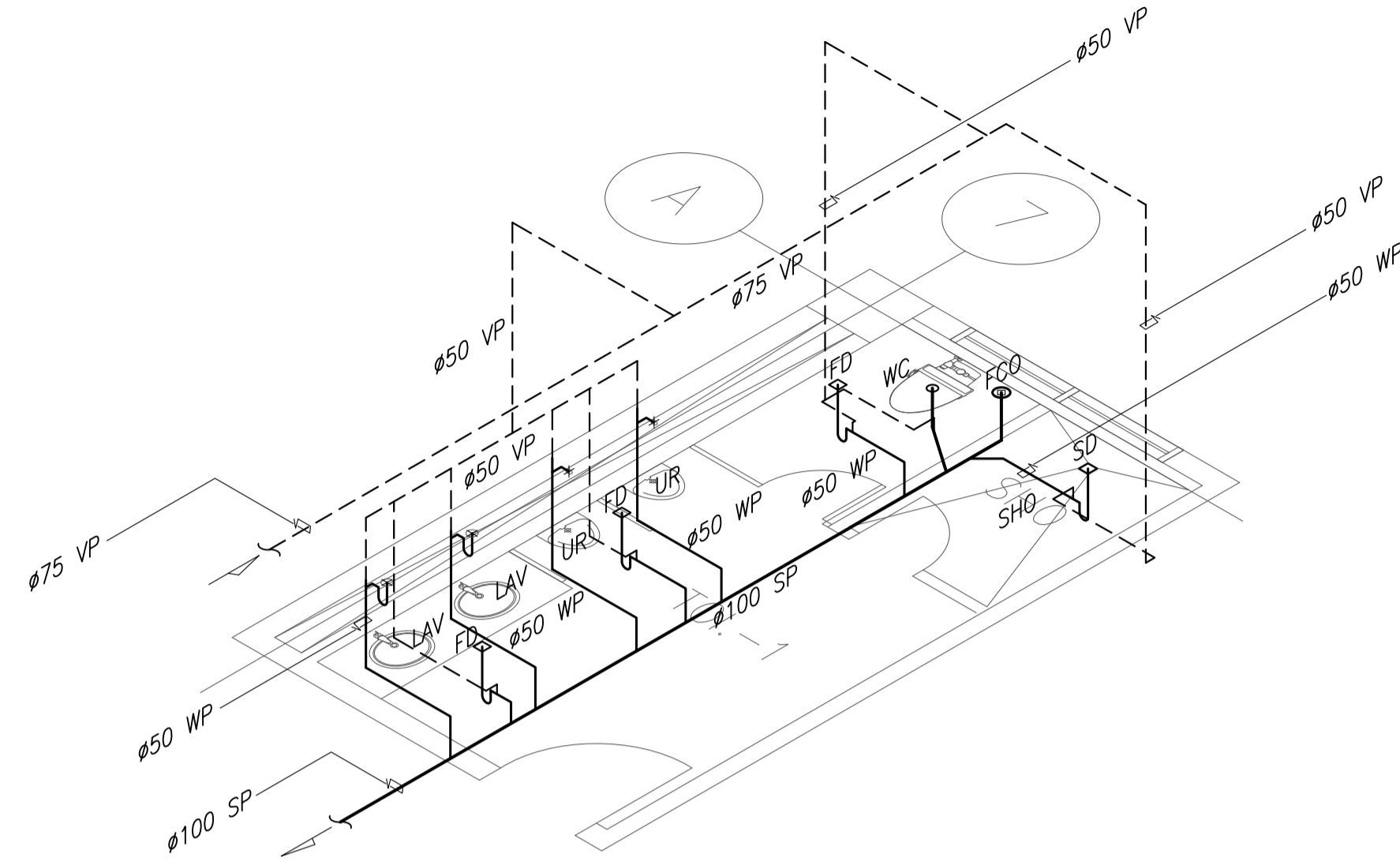
SCALE

1:100M

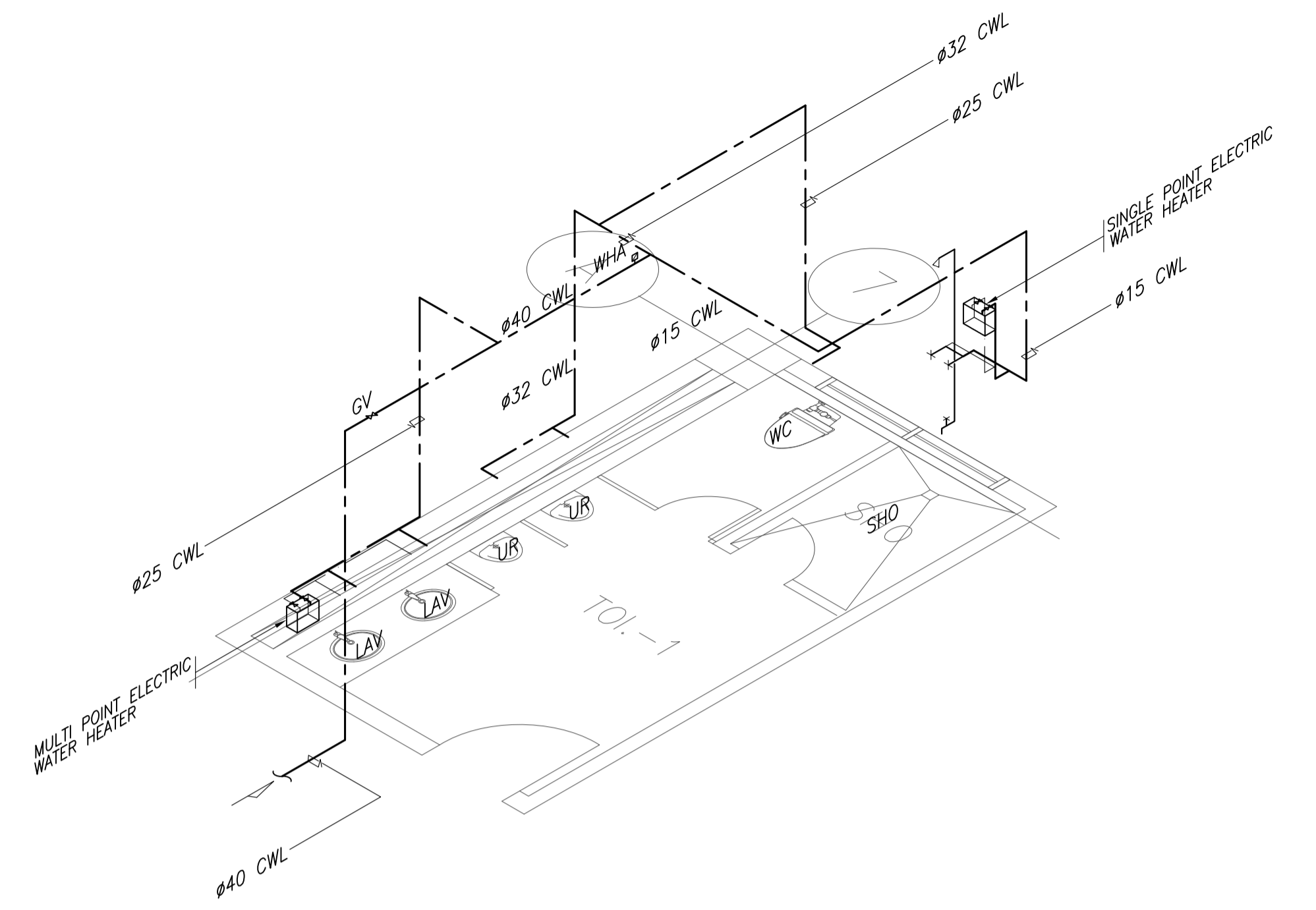
|  |                                                                                                                                                                                                                |                                                                                                                                 |                                                                                                                 |                                                                                                                                                                             |                                                                                                                                                                                              |                                                                   |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|  | PREPARED BY:<br><b>LEOVIMEL J. VINELES</b><br><small>Philippine Registered Engineer</small><br>PROF. SANITARY ENGINEER PIR. 2024236<br>REG. NO. 0002435 DATE: 07-09-2013<br>TEL. 837-652-802-000 PLACE: MANILA | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b><br>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4: BUILDING WORKS (B)<br>SUBCOMPONENT-4-4:<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING<br>MECHANICAL SANITARY AND PLUMBING<br>ROOF DECK PLUMBING PLAN | SHEET NO:<br><b>B4-5100-02</b><br>DRAWING SCALE:<br><b>1:100M</b> |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NJS CONSULTANTS CO., LTD.                                                                                        | JUNE 2013<br>DATE INDEX AMENDMENTS Prepared by WIM Checked by IIC Validated by                                                  |                                                                                                                 |                                                                                                                                                                             |                                                                                                                                                                                              |                                                                   |



PLAN

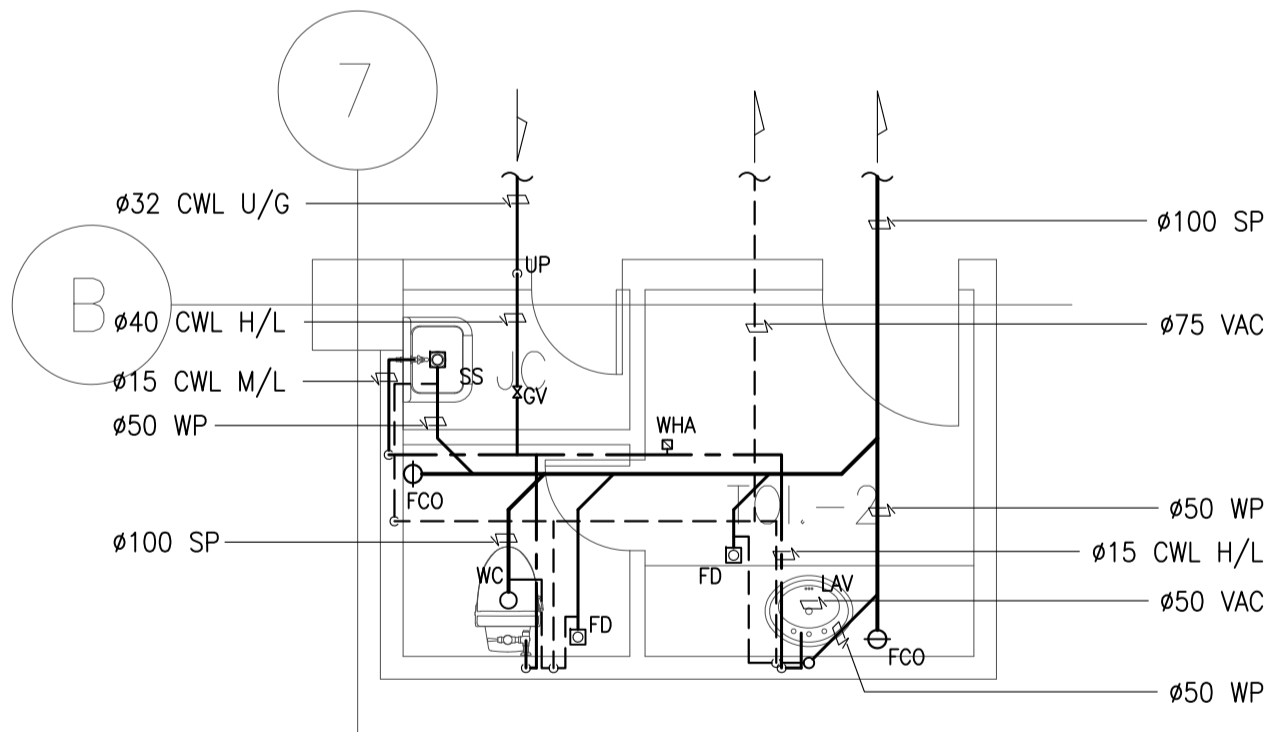


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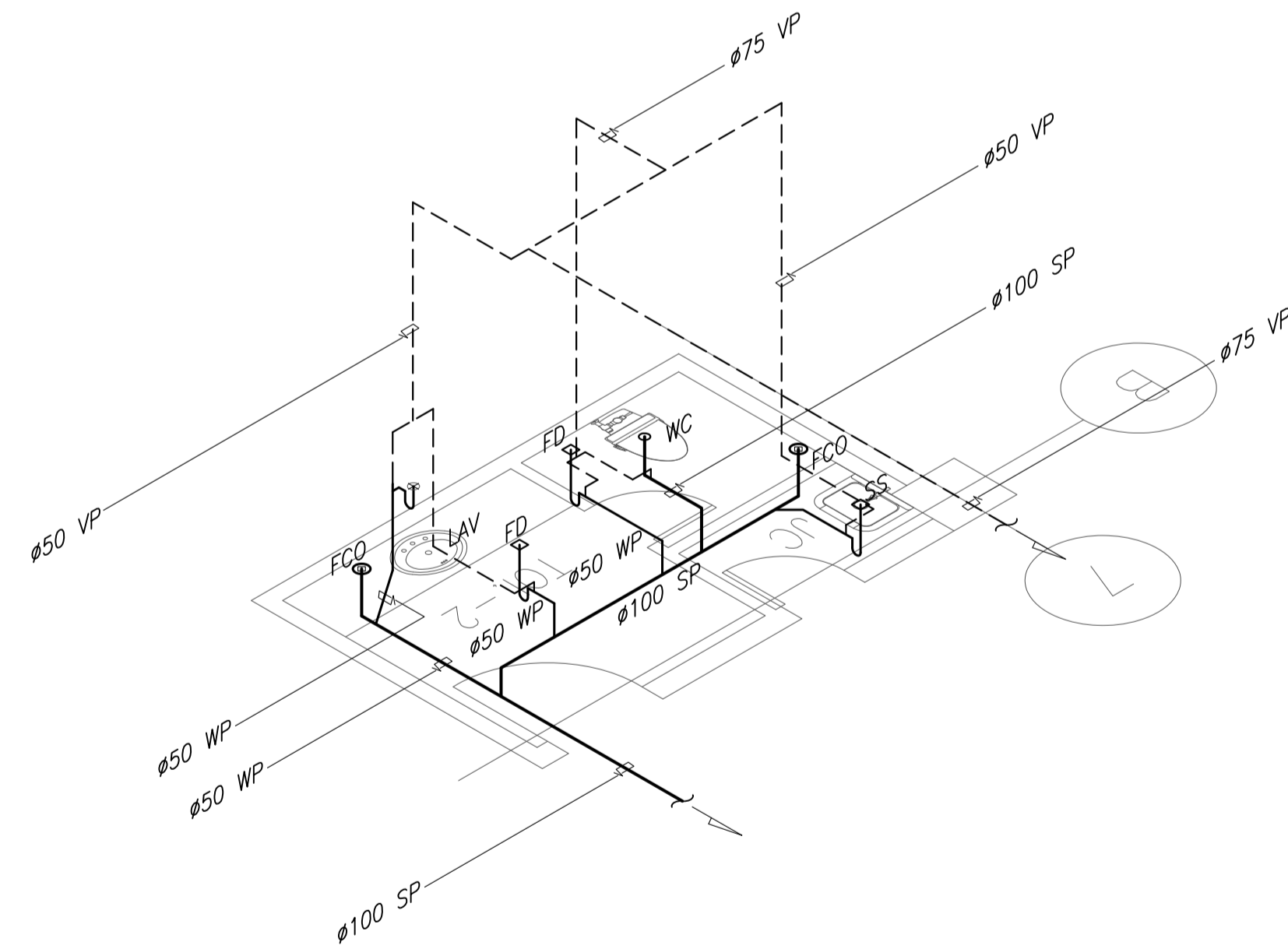


WATER LINE ISOMETRIC

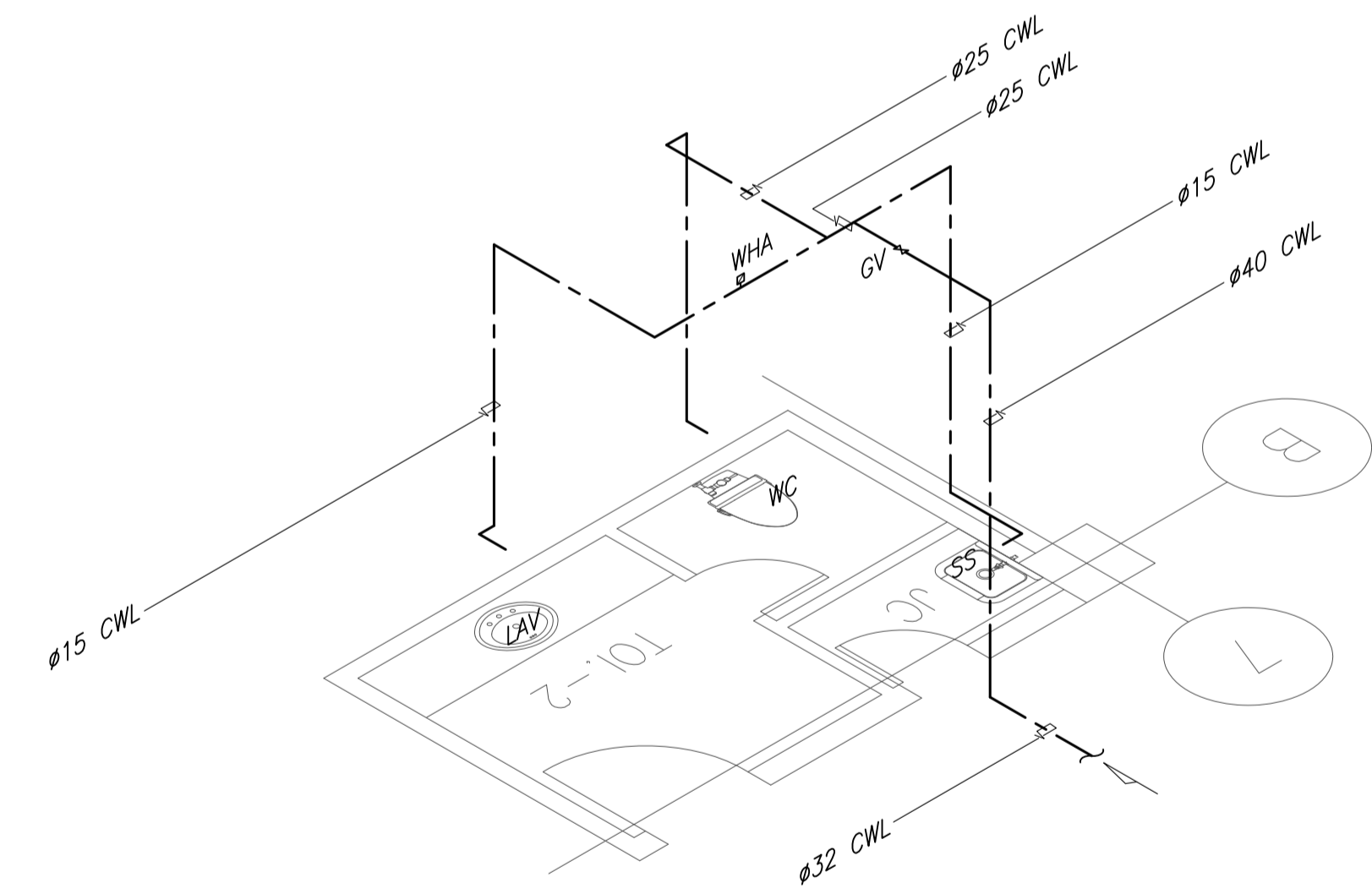
**1 TOILET - 1 BLOW-UP PLANS**  
 B4-5100-03 SCALE 1:50M



PLAN



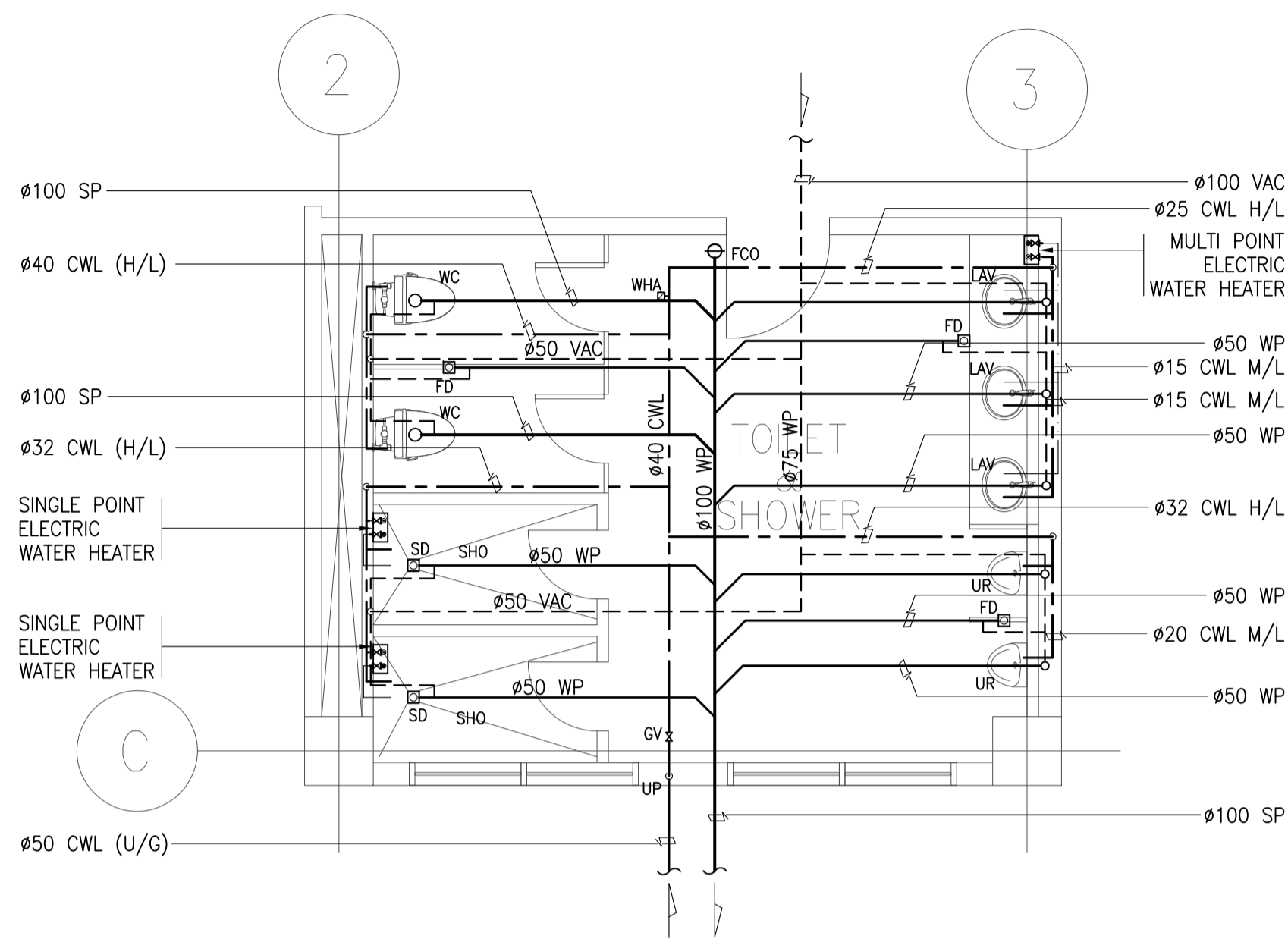
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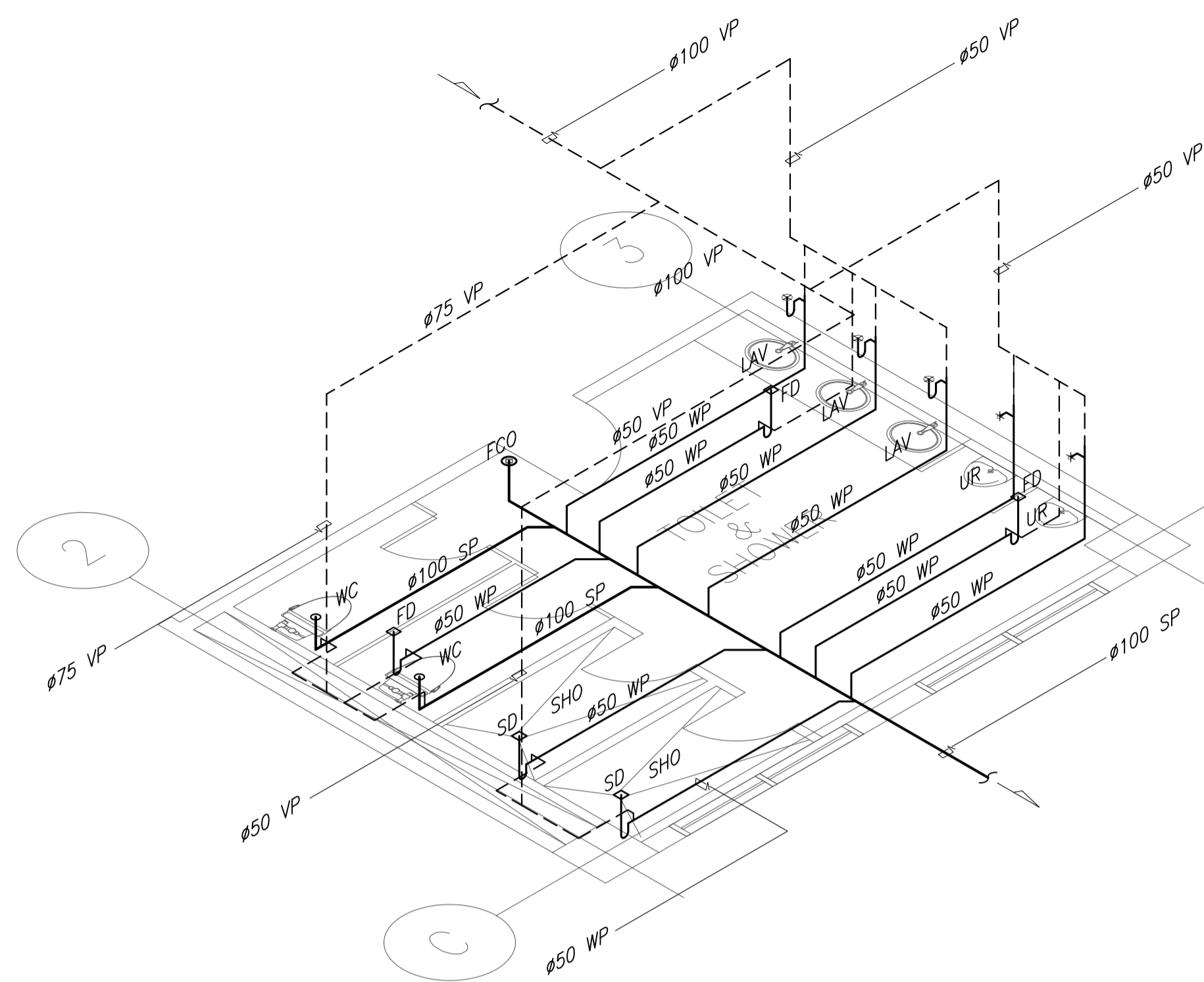
WATER LINE ISOMETRIC

**2 TOILET - 2 BLOW-UP PLANS**  
 B4-5100-03 SCALE 1:50M

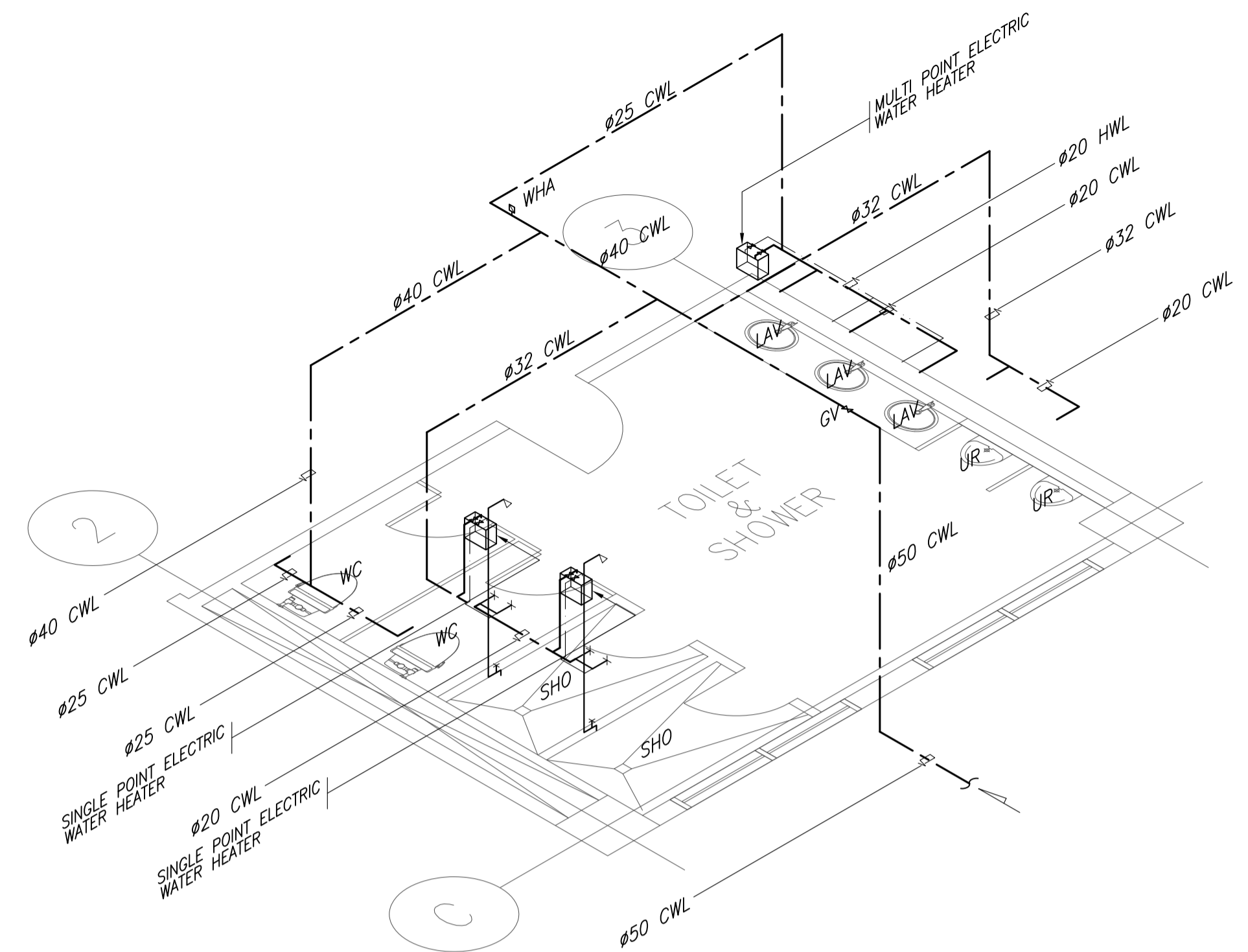
|  |                                                                                                                                                                                                                |                                                                                                                                    |                                                                                                                    |                                                                                                                                                                             |                                                                                                                                                                                               |                                                                  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|  | PREPARED BY:<br><b>LEOVIMEL J. VINELES</b><br><small>Philippine Registered Engineer</small><br>PROF: SANITARY ENGINEER PIR: 2024236<br>REG. NO: 0002435 DATE: 07-09-2013<br>TEL: 837-852-802-000 PLACE: MANILA | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary</small><br>for Project Implementation, DOTC | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary</small><br>for Project Implementation, DOTC | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b><br>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4: BUILDING WORKS (B)<br>SUBCOMPONENT-4-4:<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING<br>MECHANICAL SANITARY AND PLUMBING<br>TOILET 1&2 BLOW-UP PLANS | SHEET NO:<br><b>B4-5100-03</b><br>DRAWING SCALE:<br><b>1:50M</b> |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NJS CONSULTANTS CO., LTD.                                                                                        | DATE: JUNE 2013<br>INDEX: AMENDMENTS<br>Prepared by: WIM<br>Checked by: IIC<br>Validated by:                                       |                                                                                                                    |                                                                                                                                                                             |                                                                                                                                                                                               |                                                                  |



PLAN



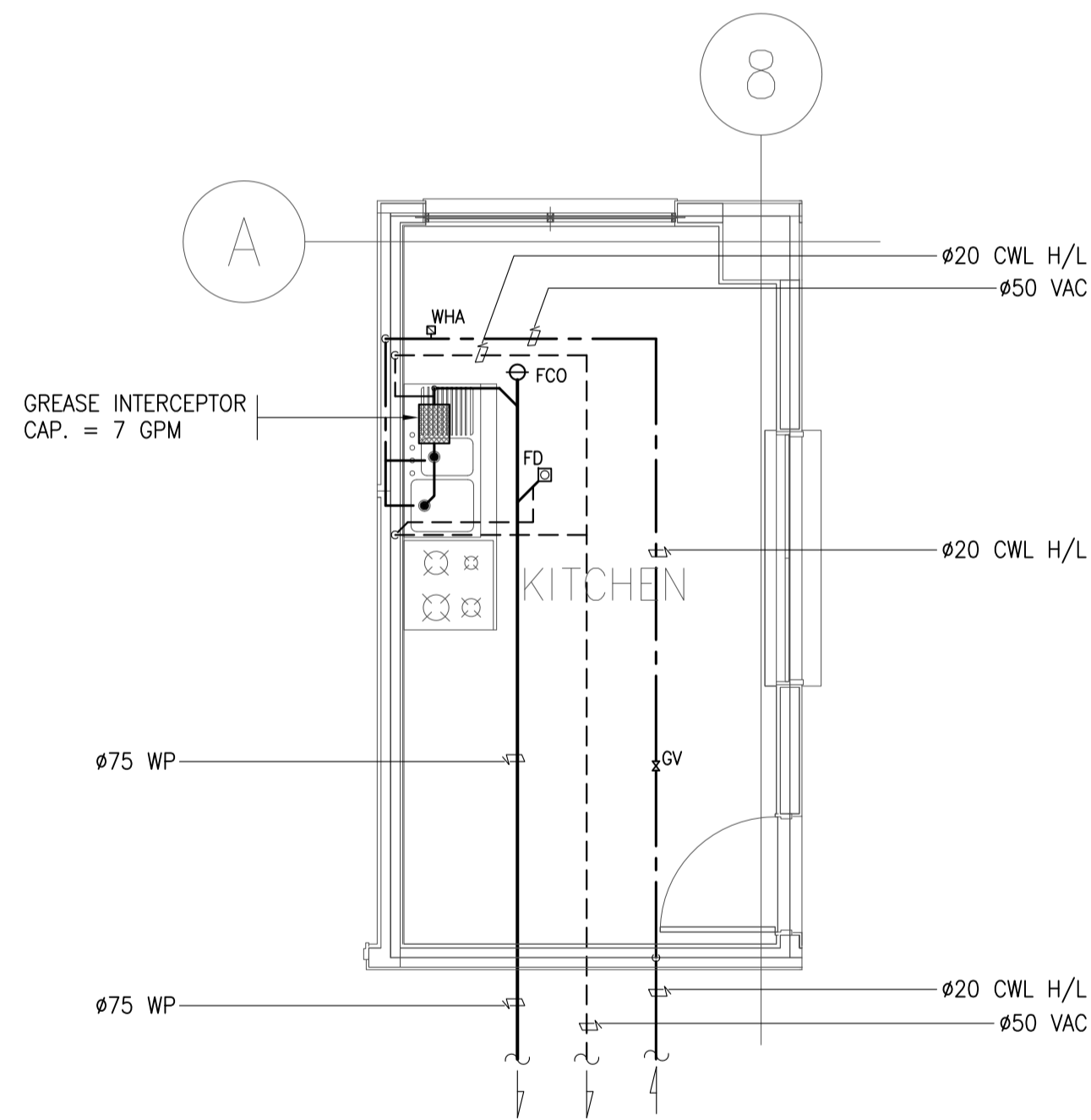
DRAINAGE ISOMETRIC



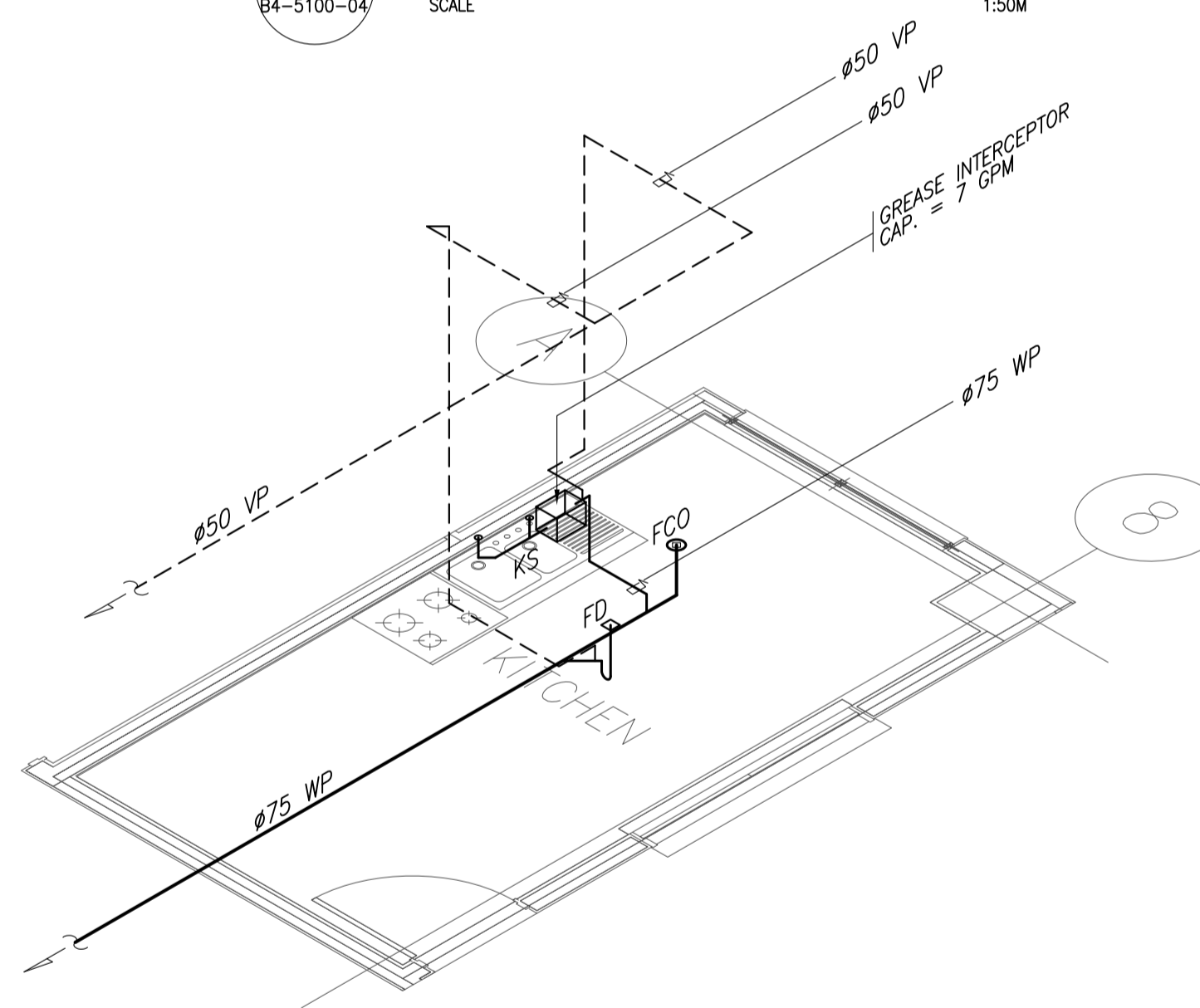
WATER LINE ISOMETRIC

1 TOILET - 3 BLOW-UP PLANS

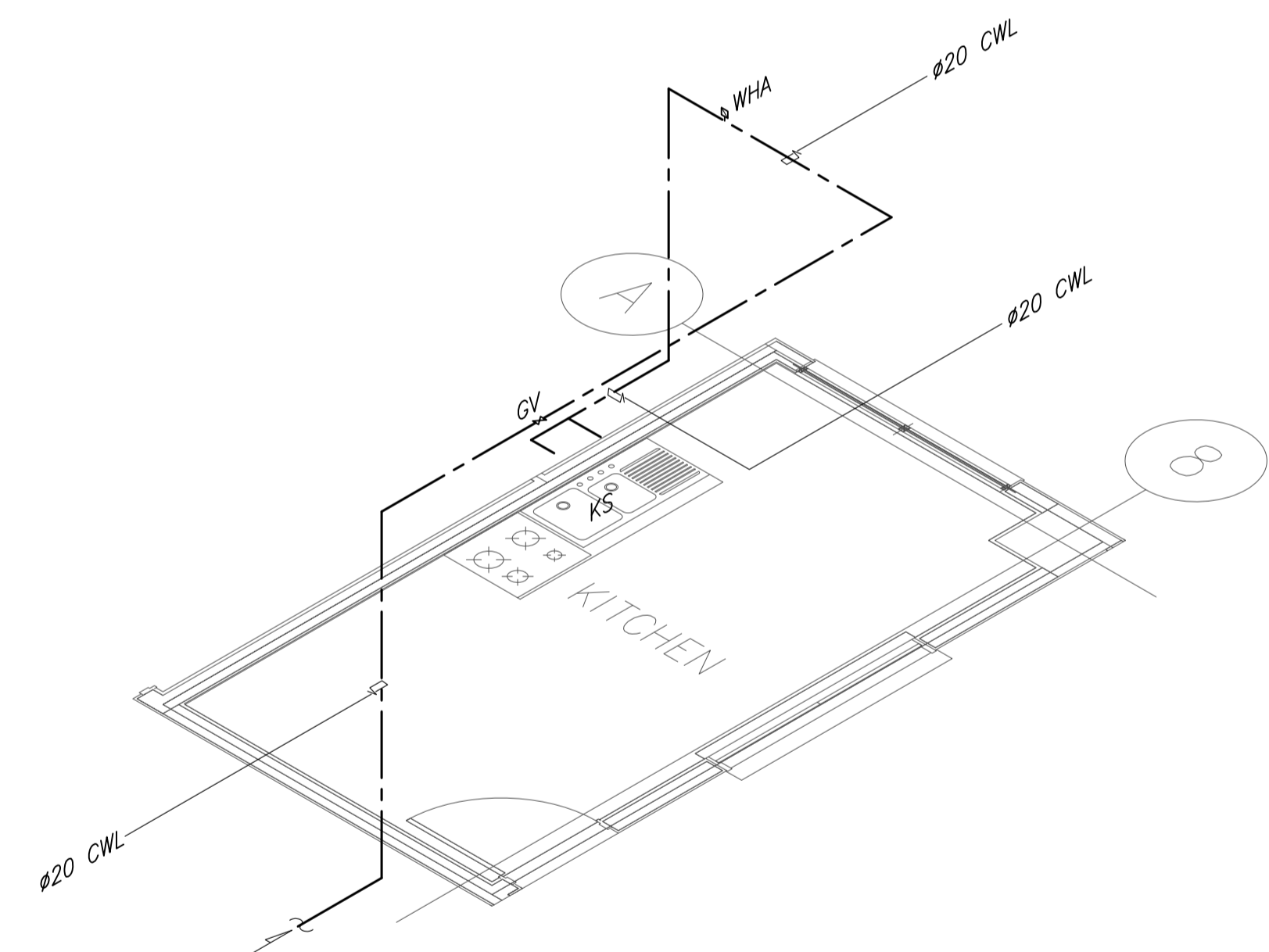
B4-5100-04 SCALE 1:50M



PLAN



DRAINAGE ISOMETRIC

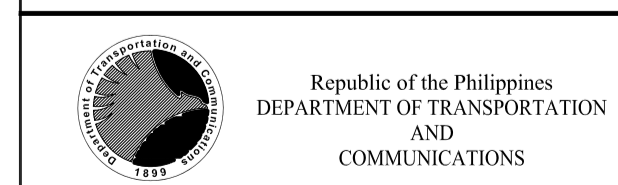


WATER LINE ISOMETRIC

2 KITCHEN BLOW-UP PLANS

B4-5100-04 SCALE 1:50M

| ITEMS | PUMP / DESIGNATION    | QTY.          | TYPE                         | TECHNICAL SPECIFICATIONS / DESCRIPTIONS |       |                | CONTROLLERS & ACCESSORIES |                           |             | REMARKS |
|-------|-----------------------|---------------|------------------------------|-----------------------------------------|-------|----------------|---------------------------|---------------------------|-------------|---------|
|       |                       |               |                              | PHASE                                   | HERTZ | VOLTAGE RATING | MOTOR CONTROLS            | ACCESSORIES               | LOCATION    |         |
| EW1-1 | ELECTRIC WATER HEATER | NINE(9) UNITS | INSTANTANEOUS (SINGLE POINT) | SINGLE                                  | 50-60 | 220-240 V      | -                         | COMPLETE WITH ACCESSORIES | EACH SHOWER | -       |



PREPARED BY:  
**LEOVIMEL J. VINELES**  
 Filipino Registered Engineer  
 PROF. SANITARY ENGINEER PIR. 2024236  
 REG. NO. 0002435 DATE: 07-09-2013  
 T.I.N. 237-652-602-000 PLACE: MANILA  
**TADASHI AOI**  
 Team Leader

RECOMMENDING APPROVAL:  
**ILDEFONSO T. PATDU, JR.**  
 Assistant Secretary  
 for Project Implementation, DOTC

APPROVED:  
**JULIANITO G. BUCAYAN, JR.**  
 Undersecretary  
 for Project Implementation, DOTC

PROJECT TITLE:  
**NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT**  
 LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

| DATE      | INDEX | AMENDMENTS | Prepared by | Checked by | Validated by |
|-----------|-------|------------|-------------|------------|--------------|
| JUNE 2013 |       |            | WIM         | HC         |              |

SHEET CONTENTS:  
 COMPONENT-4: BUILDING WORKS (B)  
 SUBCOMPONENT-4-4:  
 (B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING  
 MECHANICAL SANITARY AND PLUMBING  
 TOILET-3 BLOW-UP PLANS AND KITCHEN BLOW-UP PLANS

SHEET NO:  
**B4-5100-04**  
 DRAWING SCALE:  
**1:50M**

**FIRE STATION AND AIRPORT MAINTENANCE BUILDING**  
**SPLIT TYPE AIR CONDITIONING UNIT:**

| UNIT DESIGNATIONS |               | EQUIPMENT     | AREA SERVED          | LEVEL        | QUANTITY | EQUIPMENT                   |                    | REFRIGERANT TYPE | POWER INPUT (W) | ELECTRICAL CHARACTERISTICS |       |       | TYPE OF FAN                     |
|-------------------|---------------|---------------|----------------------|--------------|----------|-----------------------------|--------------------|------------------|-----------------|----------------------------|-------|-------|---------------------------------|
| INDOOR            | OUTDOOR       |               |                      |              |          | TOTAL COOLING CAPACITY (KW) | AIR FLOWRATE (lps) |                  |                 | VOLTS                      | PHASE | HERTZ |                                 |
| FCU-1<br>GF       | ACCU-1<br>GF  | FAN COIL UNIT | LOCKER               | GROUND FLOOR | 1        | 3.5                         | 200                | R410A            | 1210            | 230                        | 1     | 60    | WALL MOUNTED FAN COIL UNIT      |
| FCU-2<br>GF       | ACCU-2<br>GF  | FAN COIL UNIT | OBSERVATION ROOM     | GROUND FLOOR | 1        | 7                           | 332                | R410A            | 2650            | 230                        | 1     | 60    | WALL MOUNTED FAN COIL UNIT      |
| FCU-3<br>GF       | ACCU-3<br>GF  | FAN COIL UNIT | NAP ROOM             | GROUND FLOOR | 1        | 10.2                        | 415                | R410A            | 4630            | 230                        | 1     | 60    | CEILING SUSPENDED FAN COIL UNIT |
| FCU-4<br>GF       | ACCU-4<br>GF  | FAN COIL UNIT | OFFICE               | GROUND FLOOR | 1        | 5.3                         | 200                | R410A            | 2240            | 230                        | 1     | 60    | WALL MOUNTED FAN COIL UNIT      |
| FCU-5<br>GF       | ACCU-5<br>GF  | FAN COIL UNIT | DINING AND KITCHEN   | GROUND FLOOR | 1        | 12.3                        | 415                | R410A            | 5070            | 230                        | 1     | 60    | CEILING SUSPENDED FAN COIL UNIT |
| FCU-6A<br>GF      | ACCU-6A<br>GF | FAN COIL UNIT | SEC/RECEPTION OFFICE | GROUND FLOOR | 1        | 8.78                        | 300                | R410A            | 4100            | 230                        | 1     | 60    | CEILING SUSPENDED FAN COIL UNIT |
| FCU-6B<br>GF      | ACCU-6B<br>GF | FAN COIL UNIT | SEC/RECEPTION OFFICE | GROUND FLOOR | 1        | 8.78                        | 300                | R410A            | 4100            | 230                        | 1     | 60    | CEILING SUSPENDED FAN COIL UNIT |

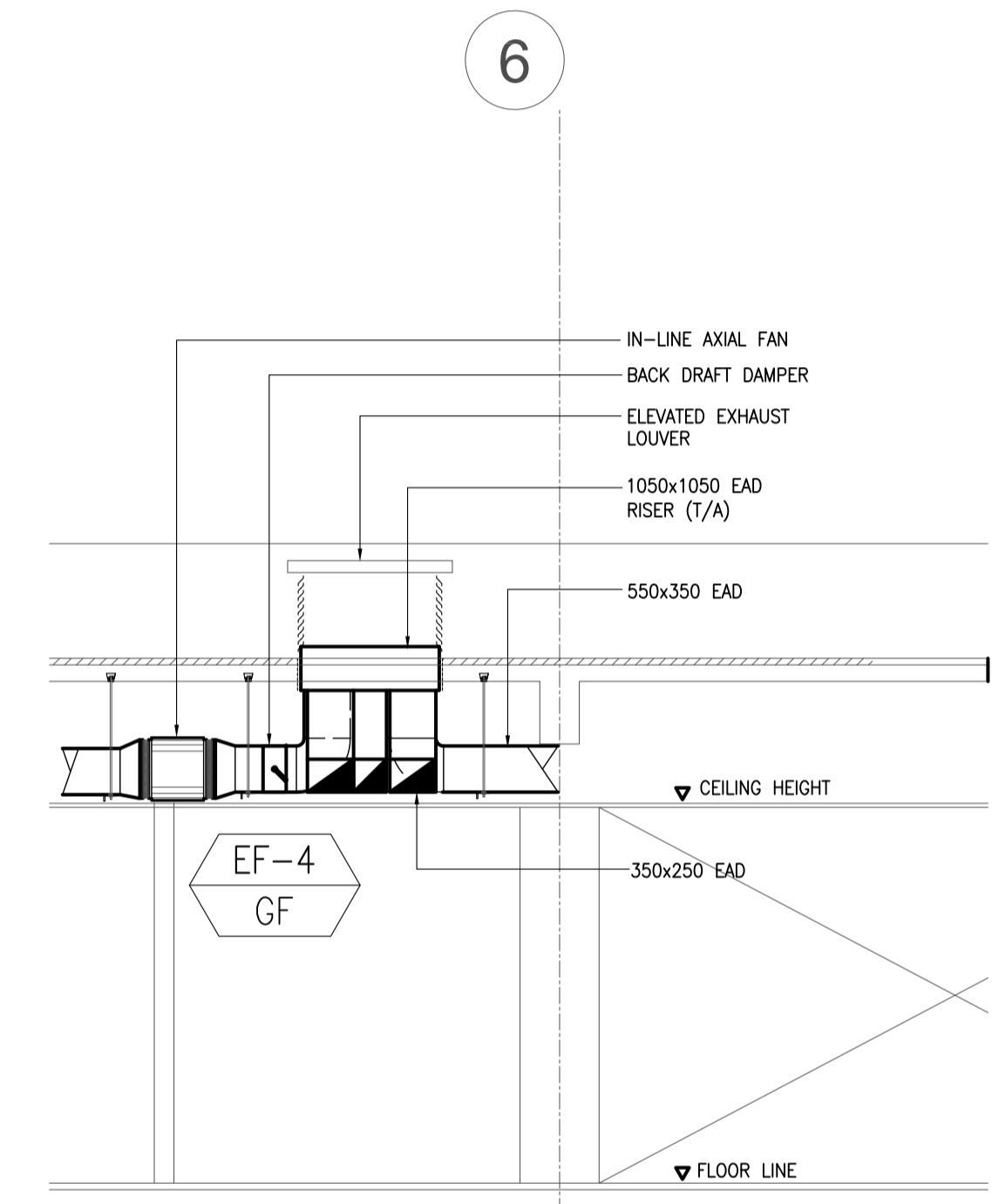
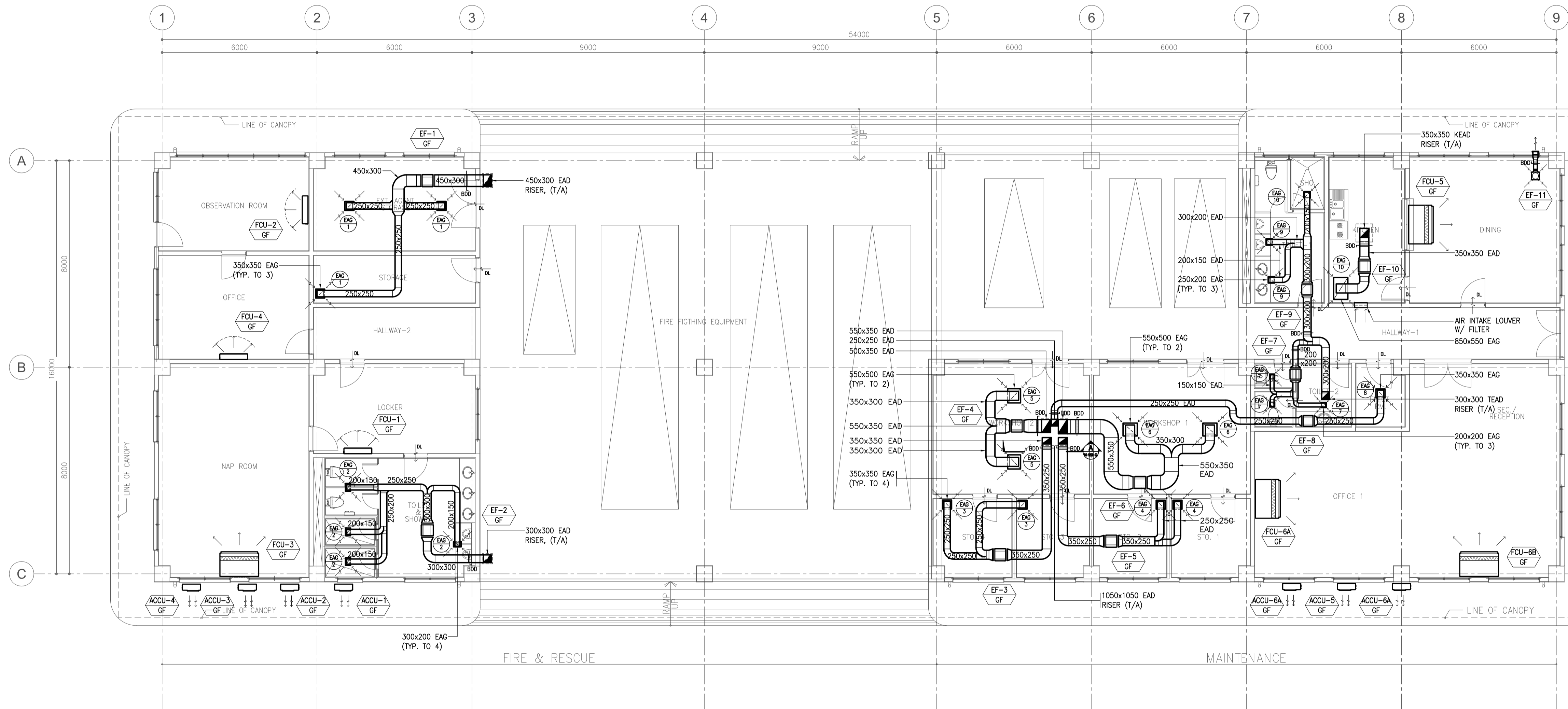
**EXHAUST FAN:**

| UNIT DESIGNATIONS | EQUIPMENT   | AREA SERVED                  | LEVEL        | QUANTITY | EQUIPMENT AIRFLOW (lps) | STATIC PRESSURE (Pa) | POWER INPUT (W) | ELECTRICAL CHARACTERISTICS |       |       | TYPE OF FAN       |
|-------------------|-------------|------------------------------|--------------|----------|-------------------------|----------------------|-----------------|----------------------------|-------|-------|-------------------|
|                   |             |                              |              |          |                         |                      |                 | VOLTS                      | PHASE | HERTZ |                   |
| EF-1<br>GF        | EXHAUST FAN | STORAGE / EXT. AGENT STORAGE | GROUND FLOOR | 1        | 604                     | 110                  | 370             | 230                        | 1     | 60    | IN-LINE AXIAL FAN |
| EF-2<br>GF        | EXHAUST FAN | TOILET & SHOWER              | GROUND FLOOR | 1        | 327                     | 182                  | 180             | 230                        | 1     | 60    | IN-LINE AXIAL FAN |
| EF-3<br>GF        | EXHAUST FAN | STORAGE 3 AND 4              | GROUND FLOOR | 1        | 317                     | 190                  | 180             | 230                        | 1     | 60    | IN-LINE AXIAL FAN |
| EF-4<br>GF        | EXHAUST FAN | WORKSHOP 2                   | GROUND FLOOR | 1        | 852                     | 90                   | 370             | 230                        | 1     | 60    | IN-LINE AXIAL FAN |
| EF-5<br>GF        | EXHAUST FAN | STORAGE 1 AND 2              | GROUND FLOOR | 1        | 317                     | 190                  | 180             | 230                        | 1     | 60    | IN-LINE AXIAL FAN |
| EF-6<br>GF        | EXHAUST FAN | WORKSHOP 1                   | GROUND FLOOR | 1        | 858                     | 90                   | 370             | 230                        | 1     | 60    | IN-LINE AXIAL FAN |
| EF-7<br>GF        | EXHAUST FAN | TOILET 2 / JANITOR'S CLOSET  | GROUND FLOOR | 1        | 108                     | 110                  | 180             | 230                        | 1     | 60    | IN-LINE AXIAL FAN |
| EF-8<br>GF        | EXHAUST FAN | ELECTRICAL ROOM              | GROUND FLOOR | 1        | 174                     | 110                  | 180             | 230                        | 1     | 60    | IN-LINE AXIAL FAN |
| EF-9<br>GF        | EXHAUST FAN | TOILET 1 & SHOWER            | GROUND FLOOR | 1        | 205                     | 90                   | 180             | 230                        | 1     | 60    | IN-LINE AXIAL FAN |
| EF-10<br>GF       | EXHAUST FAN | KITCHEN                      | GROUND FLOOR | 1        | 375                     | 110                  | -               | 230                        | 1     | 60    | IN-LINE AXIAL FAN |
| EF-11<br>GF       | EXHAUST FAN | DINING                       | GROUND FLOOR | 1        | 49                      | 110                  | -               | 230                        | 1     | 60    | CEILING CASSETTE  |

**AIR TERMINAL DEVICE:**

| AIR TERMINAL DEVICE DESIGNATION | LOCATION                        | LEVEL        | SERVICE     | QUANTITY | TOTAL AIR FLOWRATE (lps) | TYPE               | AIR FLOWRATE PER TERMINAL DEVICE (lps) | DIMENSION   |            | REMARK                                          |
|---------------------------------|---------------------------------|--------------|-------------|----------|--------------------------|--------------------|----------------------------------------|-------------|------------|-------------------------------------------------|
|                                 |                                 |              |             |          |                          |                    |                                        | HEIGHT (mm) | WIDTH (mm) |                                                 |
| EAG-1                           | EXTINGUISHER AGENT STORAGE ROOM | GROUND FLOOR | EXHAUST AIR | 3        | 604                      | EXHAUST AIR GRILLE | 201                                    | 350         | 350        | TWO-WAY OPPOSED BLADE W/ INTEGRAL VOLUME DAMPER |
| EAG-2                           | TOILET AND SHOWER               | GROUND FLOOR | EXHAUST AIR | 4        | 327                      | EXHAUST AIR GRILLE | 82                                     | 300         | 200        | TWO-WAY OPPOSED BLADE W/ INTEGRAL VOLUME DAMPER |
| EAG-3                           | STORAGE 3 AND 4                 | GROUND FLOOR | EXHAUST AIR | 2        | 317                      | EXHAUST AIR GRILLE | 159                                    | 350         | 350        | TWO-WAY OPPOSED BLADE W/ INTEGRAL VOLUME DAMPER |
| EAG-4                           | STORAGE 1 AND 2                 | GROUND FLOOR | EXHAUST AIR | 2        | 317                      | EXHAUST AIR GRILLE | 159                                    | 350         | 350        | TWO-WAY OPPOSED BLADE W/ INTEGRAL VOLUME DAMPER |
| EAG-5                           | WORKSHOP 2                      | GROUND FLOOR | EXHAUST AIR | 2        | 852                      | EXHAUST AIR GRILLE | 426                                    | 550         | 500        | TWO-WAY OPPOSED BLADE W/ INTEGRAL VOLUME DAMPER |
| EAG-6                           | WORKSHOP 1                      | GROUND FLOOR | EXHAUST AIR | 2        | 858                      | EXHAUST AIR GRILLE | 429                                    | 550         | 500        | TWO-WAY OPPOSED BLADE W/ INTEGRAL VOLUME DAMPER |
| EAG-7                           | TOILET 2 & JANITOR'S CLOSET     | GROUND FLOOR | EXHAUST AIR | 3        | 108                      | EXHAUST AIR GRILLE | 36                                     | 200         | 200        | TWO-WAY OPPOSED BLADE W/ INTEGRAL VOLUME DAMPER |
| EAG-8                           | ELECTRICAL ROOM                 | GROUND FLOOR | EXHAUST AIR | 1        | 174                      | EXHAUST AIR GRILLE | 174                                    | 350         | 350        | TWO-WAY OPPOSED BLADE W/ INTEGRAL VOLUME DAMPER |
| EAG-9                           | TOILET 1 AND SHOWER             | GROUND FLOOR | EXHAUST AIR | 3        | 205                      | EXHAUST AIR GRILLE | 68                                     | 250         | 200        | TWO-WAY OPPOSED BLADE W/ INTEGRAL VOLUME DAMPER |
| EAG-10                          | KITCHEN                         | GROUND FLOOR | EXHAUST AIR | 1        | 375                      | EXHAUST AIR GRILLE | 760                                    | 450         | 450        | TWO-WAY OPPOSED BLADE W/ INTEGRAL VOLUME DAMPER |
| EAL-1                           | TOILET AND SHOWER               | GROUND FLOOR | EXHAUST AIR | 1        | 327                      | EXHAUST AIR LOUVER | 327                                    | 600         | 350        | LOW NOISE, WEATHER PROOF                        |
| EAL-2                           | EXTINGUISHER AGENT STORAGE ROOM | GROUND FLOOR | EXHAUST AIR | 1        | 604                      | EXHAUST AIR LOUVER | 604                                    | 800         | 450        | LOW NOISE, WEATHER PROOF                        |

|  |                                                                                                                                                                                                                    |                                                                                                                                 |                                                                                                                 |                                                                                                                                                                             |                                                                                                                                                                                                                                  |                                                                |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | PREPARED BY:<br><b>RENATO A. ARRIOLA</b><br><small>Filipino Registered Engineer</small><br>PROF. MECHANICAL ENGINEER PIR. 1725187<br>REG. NO. 2379 DATE: JANUARY 07, 2013<br>T.I.N. 150-563-379 PLACE: TAGUIG CITY | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b><br>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4: BUILDING WORKS (B)<br>SUBCOMPONENT-4-4:<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING<br>MECHANICAL VENTILATION AND AIR-CONDITIONING EQUIPMENT SCHEDULE AND AIR TERMINAL DEVICE SCHEDULE | SHEET NO:<br><b>B4-5200-01</b><br>DRAWING SCALE:<br><b>NTS</b> |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAPAN AIRPORT CONSULTANTS, INC.                                                                                                                                            | TADASHI AOI<br>Team Leader                                                                                                      | JUN 2013<br>DATE INDEX                                                                                          | AMENDMENTS<br>Prepared by: WIM<br>Checked by: IIC<br>Validated by:                                                                                                          |                                                                                                                                                                                                                                  |                                                                |



NOTE:  
HEIGHT OF EXHAUST DUCT TERMINATION IS BASED ON EXHAUST RATE CAPACITY. THE LOWER EXHAUST CAPACITY DUCT WILL BE HIGHER.

**1**  
FIRE STATION AND AIRPORT MAINTENANCE BUILDING  
GROUND FLOOR AIR-CONDITIONING AND VENTILATION LAYOUT

1  
B4-5200-02

SCALE

1:100M

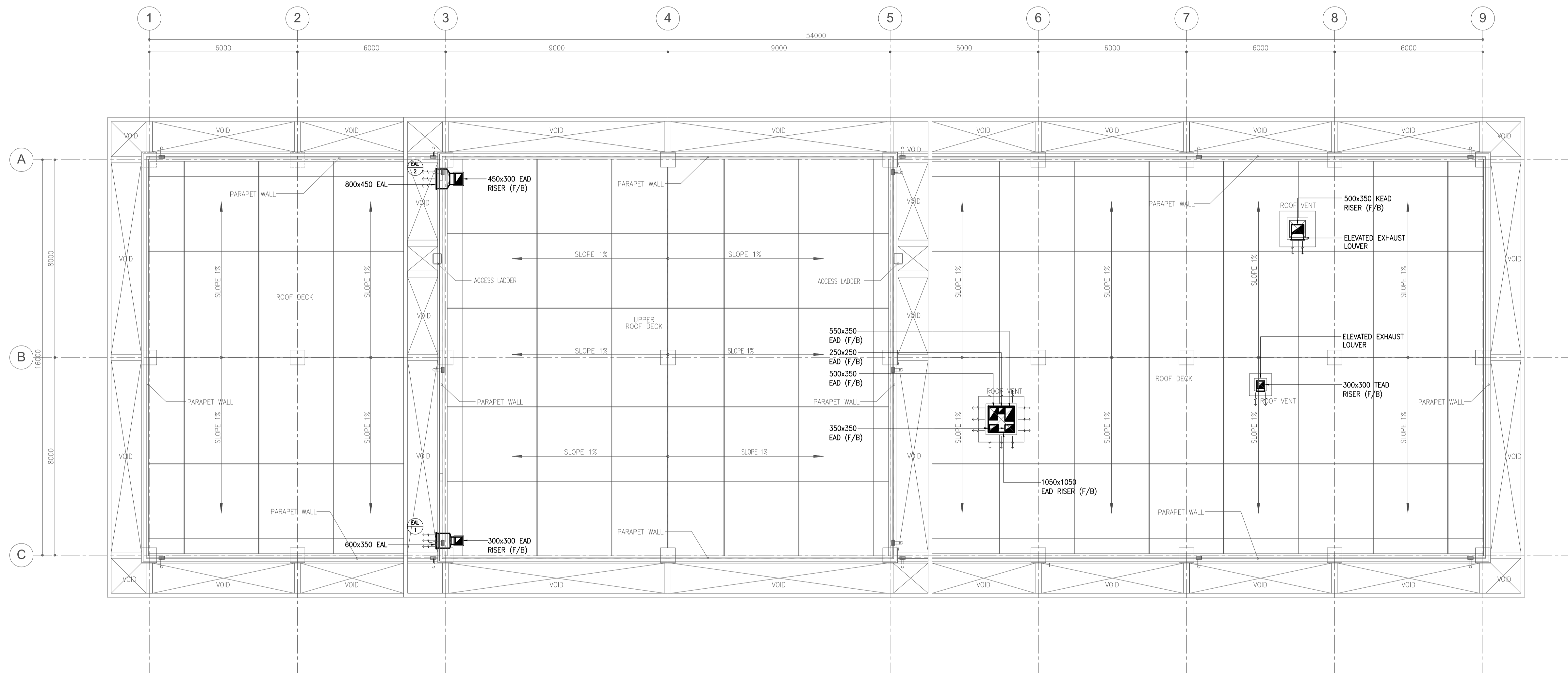
**2**  
SECTION "A"

2  
B4-5200-02

SCALE

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|  |                                                                                                                                                                                                                    |                                                                                                                                    |                                                                                                                    |                                                                                                        |                                                                                                      |                                                                                                                                                                                                                                    |                                                                     |
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|  | PREPARED BY:<br><b>RENATO A. ARRIOLA</b><br><small>Filipino Registered Engineer</small><br>PROF: MECHANICAL ENGINEER PIR. 1725187<br>REC. NO: 2379 DATE: JANUARY 07, 2013<br>TEL. 150-563-379 PLACE: TAGBILIG CITY | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary</small><br>for Project Implementation, DOTC | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary</small><br>for Project Implementation, DOTC | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES                                    | SHEET CONTENTS:<br>COMPONENT-4: BUILDING WORKS (B)<br>SUBCOMPONENT-4-4:<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING<br>MECHANICAL VENTILATION AND AIR-CONDITIONING<br>GROUND FLOOR AIR-CONDITIONING & VENTILATION LAYOUT | SHEET NO:<br><b>B4-5200-02</b><br>DRAWING SCALE:<br><b>AS SHOWN</b> |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br>JAPAN AIRPORT CONSULTANTS, INC.                                                                                                                                            | JAPAN INTERNATIONAL COOPERATION AGENCY                                                                                             | NIPPON KOEI CO., LTD.                                                                                              | NJS CONSULTANTS CO., LTD.                                                                              | DATE: JUNE 2013<br>INDEX: -<br>AMENDMENTS: -<br>Prepared by: WIM<br>Checked by: IIC<br>Validated by: | -<br>-<br>-<br>-<br>-                                                                                                                                                                                                              |                                                                     |



**FIRE STATION AND AIRPORT MAINTENANCE BUILDING  
ROOFDECK VENTILATION LAYOUT**

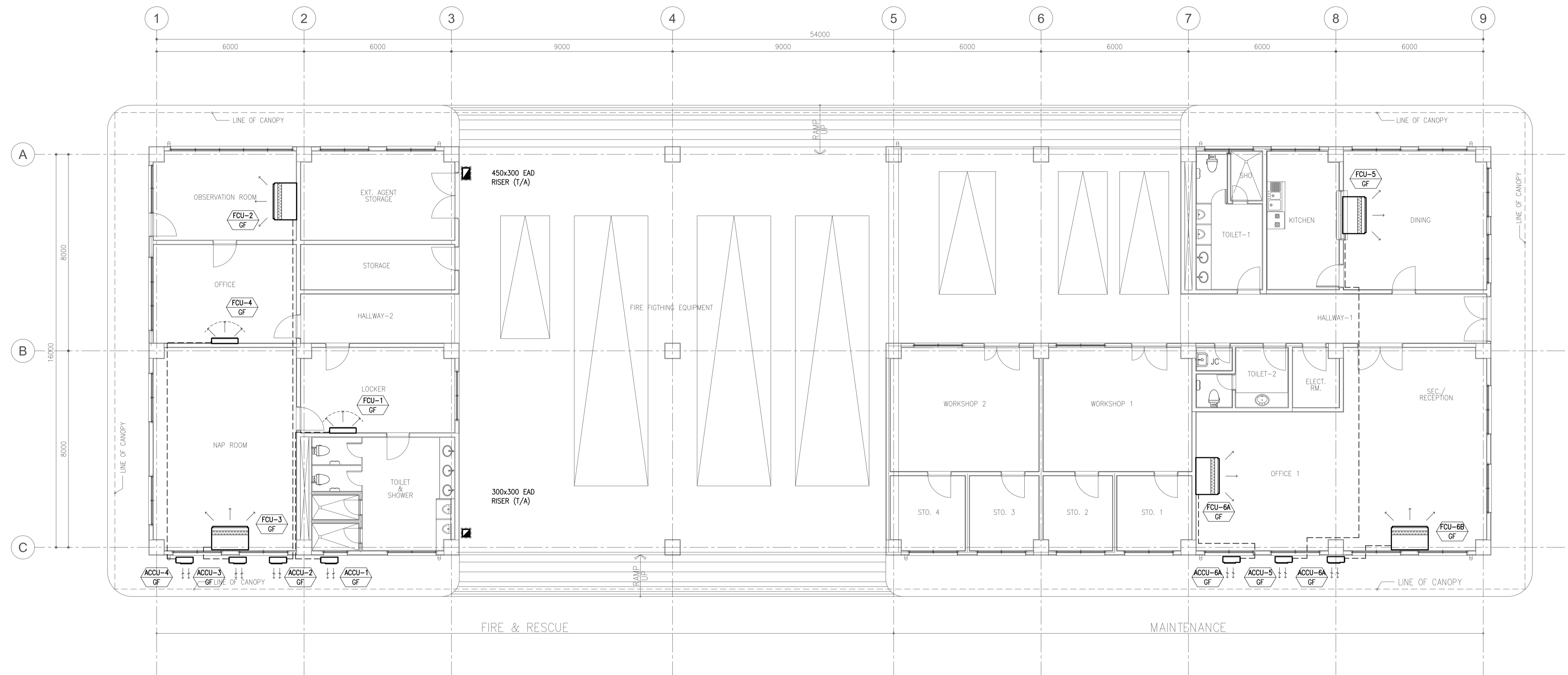
1  
B4-5200-03

SCALE 1:100M

NOTE:  
REFER TO ARCHITECTURAL PLANS  
FOR DETAIL OF ELEVATED EXHAUST LOUVER.

|  |                                                                                                                                                                                                                                                                 |                                                                                                                                                   |                                                                                                                                   |                                                                                                            |                                                                   |                                                                                                                                                                                                              |                                                      |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
|  | PREPARED BY:<br><b>RENATO A. ARRIOLA</b><br><small>Filipino Registered Engineer</small><br><small>PROF. MECHANICAL ENGINEER PIR. 1725187</small><br><small>REC. NO. 2379 DATE: JANUARY 07, 2013</small><br><small>TIN. 150-563-379 PLACE: TAGBILIG CITY</small> | RECOMMENDING APPROVAL:<br><b>ILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary</small><br><small>for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary</small><br><small>for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND<br/>SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4: BUILDING WORKS (B)<br>SUBCOMPONENT-4-4:<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING<br>MECHANICAL VENTILATION AND AIR-CONDITIONING<br>ROOF DECK VENTILATION LAYOUT | SHEET NO:<br><b>B4-5200-03</b>                       |
|  | JICA DESIGN CONSULTANT JOINT VENTURE                                                                                                                                                                                                                            | TADASHI AOI<br><small>Team Leader</small>                                                                                                         | JULIANITO G. BUCAYAN, JR.<br><small>Undersecretary</small><br><small>for Project Implementation, DOTC</small>                     | DATE: JUNE 2013                                                                                            | INDEX:                                                            | AMENDMENTS:                                                                                                                                                                                                  | Prepared by: WIM<br>Checked by: HIC<br>Validated by: |





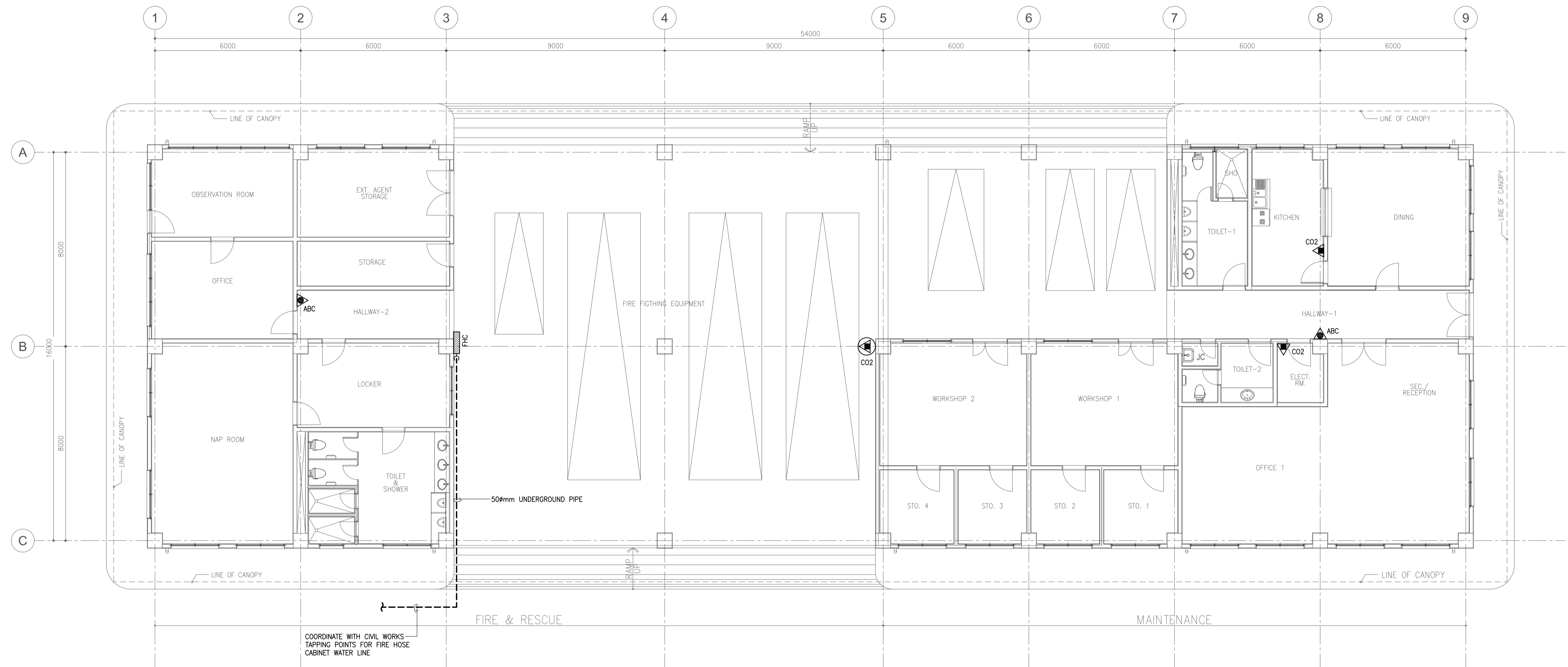
**FIRE STATION AND AIRPORT MAINTENANCE BUILDING  
GROUND FLOOR REFRIGERANT PIPING LAYOUT**

1  
B4-5200-04

SCALE

1:100M

|  |                                                                                                                                                                                                                                                                 |                                                                                                                                                    |                                                                                                                                   |                                                                                                               |                                                                                              |                                                                                                                                                                                                                        |                                |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|  | PREPARED BY:<br><b>RENATO A. ARRIOLA</b><br><small>Filipino Registered Engineer</small><br><small>PROF. MECHANICAL ENGINEER PIR. 1725187</small><br><small>REC. NO. 2379 DATE: JANUARY 07, 2013</small><br><small>TIN. 150-563-379 PLACE: TAGBILAR CITY</small> | RECOMMENDING APPROVAL:<br><b>JILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary</small><br><small>for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary</small><br><small>for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND<br/>SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b>    | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES                            | SHEET CONTENTS:<br>COMPONENT-4: BUILDING WORKS (B)<br>SUBCOMPONENT-4-4:<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING<br>MECHANICAL VENTILATION AND AIR-CONDITIONING<br>GROUND FLOOR REFRIGERANT PIPING LAYOUT | SHEET NO:<br><b>B4-5200-04</b> |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br><b>JAC</b> JAPAN AIRPORT CONSULTANTS, INC. <b>NK</b> NIPPON KOEI CO., LTD. <b>NJS</b> NJS CONSULTANTS CO., LTD.                                                                                                         | TADASHI AOI<br><small>Team Leader</small>                                                                                                          | JILDEFONSO T. PATDU, JR.<br><small>Assistant Secretary</small><br><small>for Project Implementation, DOTC</small>                 | JULIANITO G. BUCAYAN, JR.<br><small>Undersecretary</small><br><small>for Project Implementation, DOTC</small> | DATE: JUNE 2013<br>INDEX: AMENDMENTS<br>Prepared by: WIM<br>Checked by: HIC<br>Validated by: | DRAWING SCALE:<br><b>1:100M</b>                                                                                                                                                                                        |                                |



**FIRE STATION AND AIRPORT MAINTENANCE BUILDING  
FIRE PROTECTION LAYOUT**

1  
B4-5300-01

SCALE 1:100M

| LEGEND: |                                                           |
|---------|-----------------------------------------------------------|
|         | FIRE HOSE CABINET                                         |
|         | 4.5 KG. FIRE EXTINGUISHER<br>DRY CHEMICAL                 |
|         | 9.0 KG. FIRE EXTINGUISHER<br>CARBON DIOXIDE               |
|         | 23.0 KG. FIRE EXTINGUISHER<br>CARBON DIOXIDE (WHEEL TYPE) |
|         | 50mm UNDERGROUND PIPE                                     |

|  |                                                                                                                                                                                                                                                                 |                                                                                                                                                    |                                                                                                                                   |                                                                                                            |                                                                   |                                                                                                                                                                                       |                                                                   |                           |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------|
|  | PREPARED BY:<br><b>RENATO A. ARRIOLA</b><br><small>Filipino Registered Engineer</small><br><small>PROF. MECHANICAL ENGINEER PTR. 1725187</small><br><small>REG. NO. 2379 DATE: JANUARY 01, 2013</small><br><small>TIN. 150-563-379 PLACE: TAGBILAR CITY</small> | RECOMMENDING APPROVAL:<br><b>JILDEFONSO T. PATDU, JR.</b><br><small>Assistant Secretary</small><br><small>for Project Implementation, DOTC</small> | APPROVED:<br><b>JULIANITO G. BUCAYAN, JR.</b><br><small>Undersecretary</small><br><small>for Project Implementation, DOTC</small> | PROJECT TITLE:<br><b>NEW BOHOL AIRPORT CONSTRUCTION AND<br/>SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</b> | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES | SHEET CONTENTS:<br>COMPONENT-4: BUILDING WORKS (B)<br>SUBCOMPONENT-4-4:<br>(B4) FIRE STATION AND AIRPORT MAINTENANCE BUILDING<br>MECHANICAL FIRE PROTECTION<br>FIRE PROTECTION LAYOUT | SHEET NO:<br><b>B4-5300-01</b><br>DRAWING SCALE:<br><b>1:100M</b> |                           |
|  | JICA DESIGN CONSULTANT JOINT VENTURE<br><small>Republic of the Philippines<br/>DEPARTMENT OF TRANSPORTATION<br/>AND COMMUNICATIONS</small>                                                                                                                      | <small>JAPAN<br/>INTERNATIONAL<br/>COOPERATION<br/>AGENCY</small>                                                                                  | <small>JUNE 2013</small>                                                                                                          | <small>DATE</small>                                                                                        | <small>INDEX</small>                                              | <small>AMENDMENTS</small>                                                                                                                                                             | <small>Prepared by</small>                                        | <small>Checked by</small> |