

RECOMMENDED ISSUANCE:

HEAD ARCHITECTURAL SECTION DATE

ISSUED BY:

BUILDING OFFICIAL DATE

SCHEDULE OF FINISHES

FLOOR & CEILING FINISHES

CODE	SPECIFICATIONS
FF-01	60x60cm UNGLAZED TILES COLOR: GRAY
FF-02	60x60cm UNGLAZED TILES COLOR: WHITE
FF-03	60x60cm UNGLAZED OUTDOOR FLOOR TILES, COLOR: GRAY
FF-04	20x20cm PAVERS NON-SKID RAMP WAFFLE, FINISH: CONCRETE
CF-01	FLAT WHITE LATEX PAINT FINISH ON 4.5mm. THK. FICEM BOARD ON 1"x2" THK. METAL FURRING
CF-02	FLAT WHITE LATEX PAINT FINISH ON 9mm. THK. GYPSUM BOARD ON 1"x2" THK. METAL FURRING
CF-03	EPOXY GRAY PAINT FINISH ON STEEL DECK FINISH

NOTES (CEILING LEVEL REFERENCE)

ALL LEVELS SHOWN IN RCP IS REFERRED TO THE FINISH FLOOR LINE OF THE PLAN SHOWN

NOTES (CEILING FINISHES)

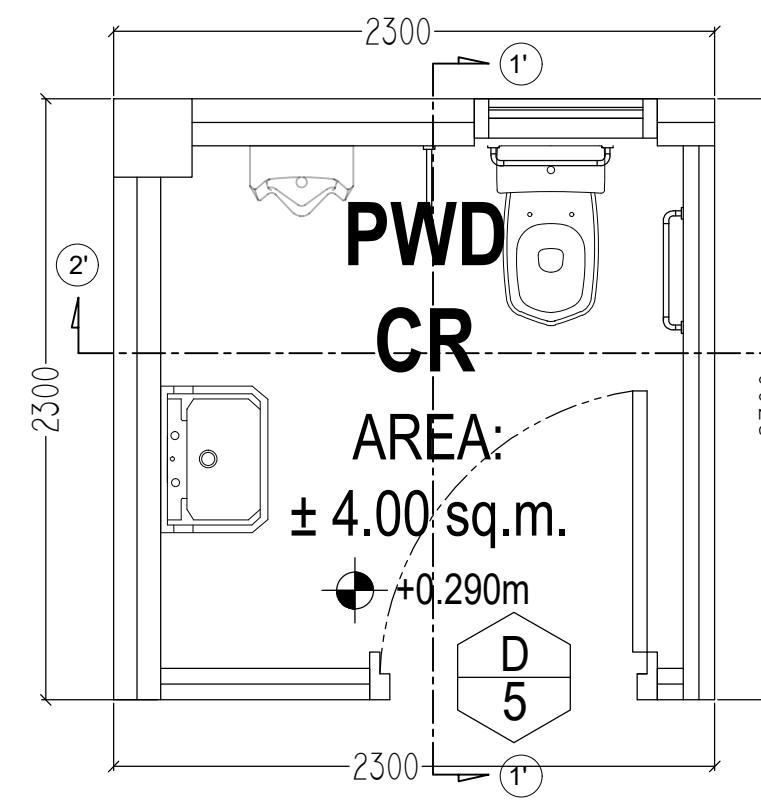
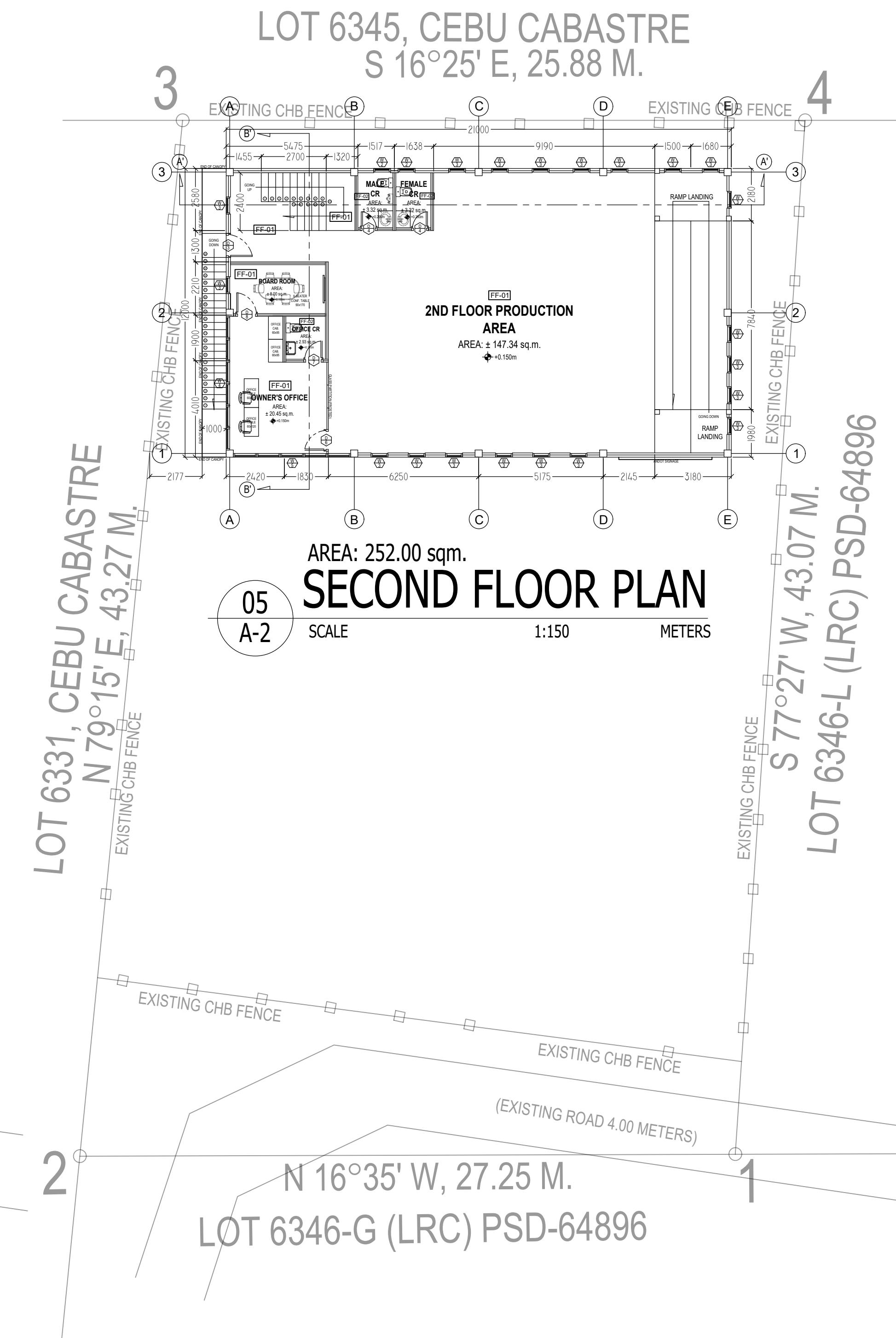
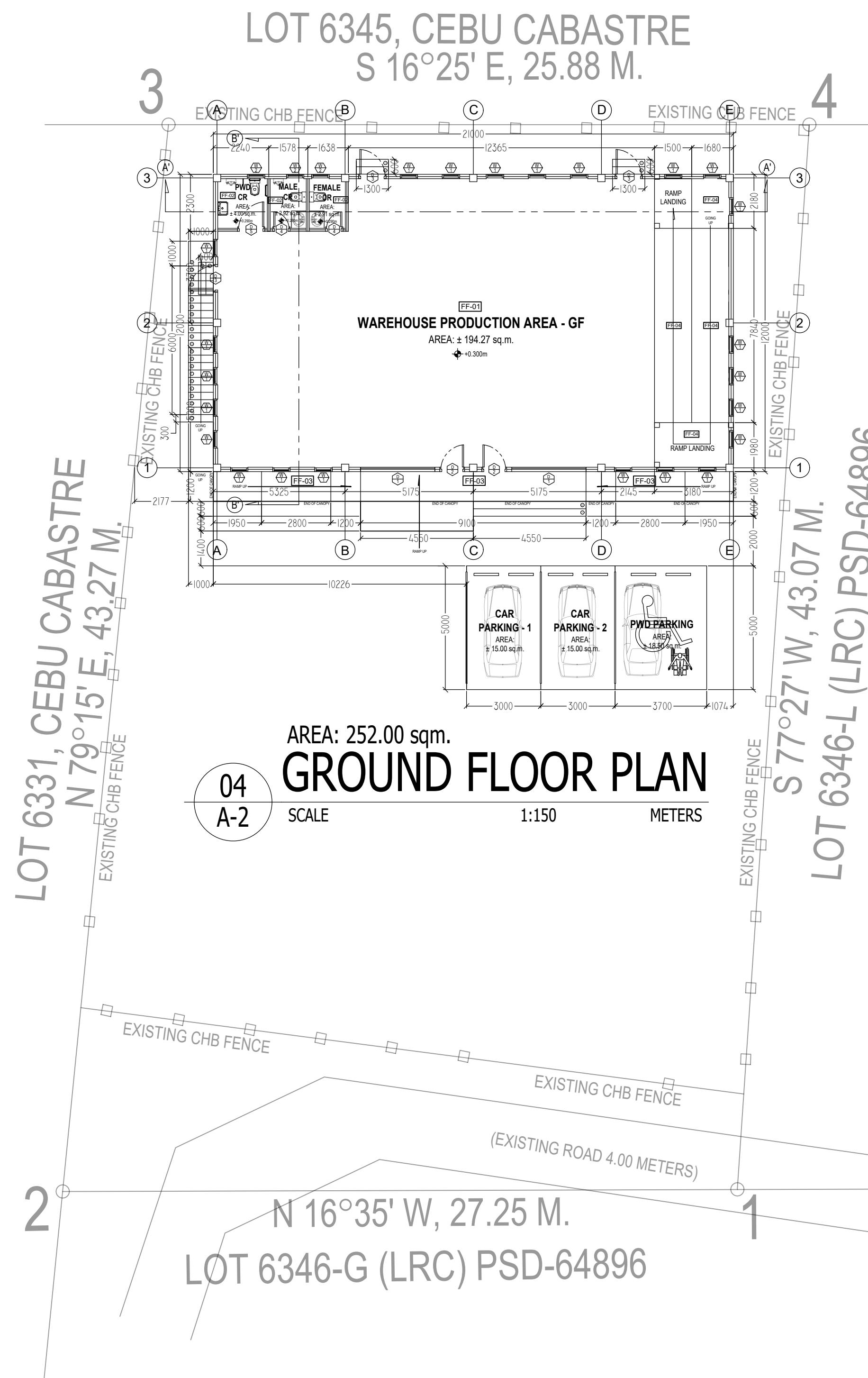
REFERENCE = @ (FINISH FLOOR LINE)
ALL CEILINGS OFFSET FROM THE COLUMNS AND WALL = 10MM OR (REFER TO PLAN)

ALL T&B CEILING EXCEPT T&B, USE FLAT LATEX PAINT FINISH (WHITE) ON 9MM THK. ORDINARY GYPSUM BOARD OR (REFER TO PLAN)

ALL T&B CEILING USE FLAT LATEX PAINT FINISH (WHITE) ON 9MM THK. HIGH-MOISTURE RESISTANT GYPSUM BOARD OR (REFER TO PLAN)

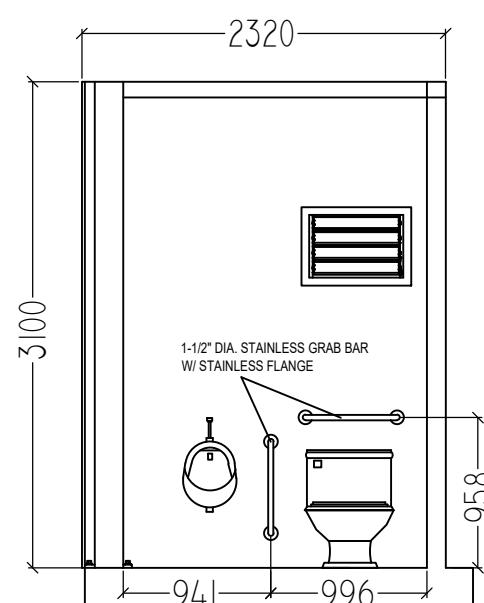
WALL FINISHES

CODE	SPECIFICATIONS
WF-01	WHITE SEMI-GLOSS LATEX FINISH
WF-02	MULTI-RIB8 RIB-TYPE WALL CLADDING MATERIAL, COLOR: WHITE
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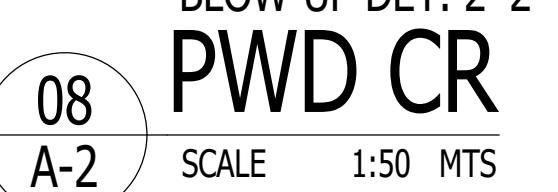
06 A-2 SCALE 1:30 MTS

BLOW-UP PWD CR



07 A-2 SCALE 1:50 MTS

BLOW-UP DET. 1'-1'
PWD CR



08 A-2 SCALE 1:50 MTS

BLOW-UP DET. 2'-2'
PWD CR

FROM THE OFFICE OF:	SEAL:
ARCH. JONATHAN G. PEREZ A R C H I T E C T REG. NO.: 0018858 DATE: 03-11-2004 EXP. DATE: 01-03-2027	REG. NO.: 0891805 PTR. NO.: 0891805 DATE: 01-02-2025 TIN NO.: 259-157-677
ADDRESS: LAPU-LAPU CITY, CEBU	REPUBLIC ACT 545

PROJECT TITLE:	APPROVED BY:	REVISION:	THIS DRAWING IS ISSUED FOR:
PROPOSED TWO-STORY COMMERCIAL WAREHOUSE BUILDING WITH ROOF DECK	COLOR LAB APPAREL C/O LOUIE ROCA & HANNAH ROCA O W N E R	DATE: REF. DWG.: DRAWN BY: LRR	<input checked="" type="checkbox"/> BUILDING PERMIT <input type="checkbox"/> OCCUPANCY PERMIT <input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> AS-BUILT PLANS
LOCATION: GUADALUPE, CEBU CITY	ADDRESS: GUADALUPE, CEBU CITY	CHECKED BY:	ISSUED BY: DATE:

A
2

RECOMMENDED ISSUANCE

HEAD ARCHITECTURAL SECTION **DATE**
ISSUED BY:

BUILDING OFFICIAL _____ DATE _____

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ALL LEVELS SHOWN IN RCP IS REFERRED TO
THE FINISH FLOOR LINE OF THE PLAN SHOWN

NOTES (CEILING FINISHES)

REFERENCE = @ (FINISH FLOOR LINE)
ALL CEILINGS OFFSET FROM THE COLUMNS AND WALL =
100MM OR (REFER TO PLAN)

ALL INTERIOR CEILING EXCEPT T&B, USE FLAT LATEX PAINT FINISH (WHITE) ON 9MM THK. ORDINARY GYPSUM BOARD OR (PREFER TO PLAN).

ALL T&B CEILING USE FLAT LATEX PAINT FINISH (WHITE OR 9MM THK HIGH MOISTURE RESISTANT GYPSUM)

ON 5MM THK. HIGH-
BOARD OR (REFER T

WALL FINISHES	
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LOT 6345, CEBU CABASTRE
S 16°25' E, 25.88 M.

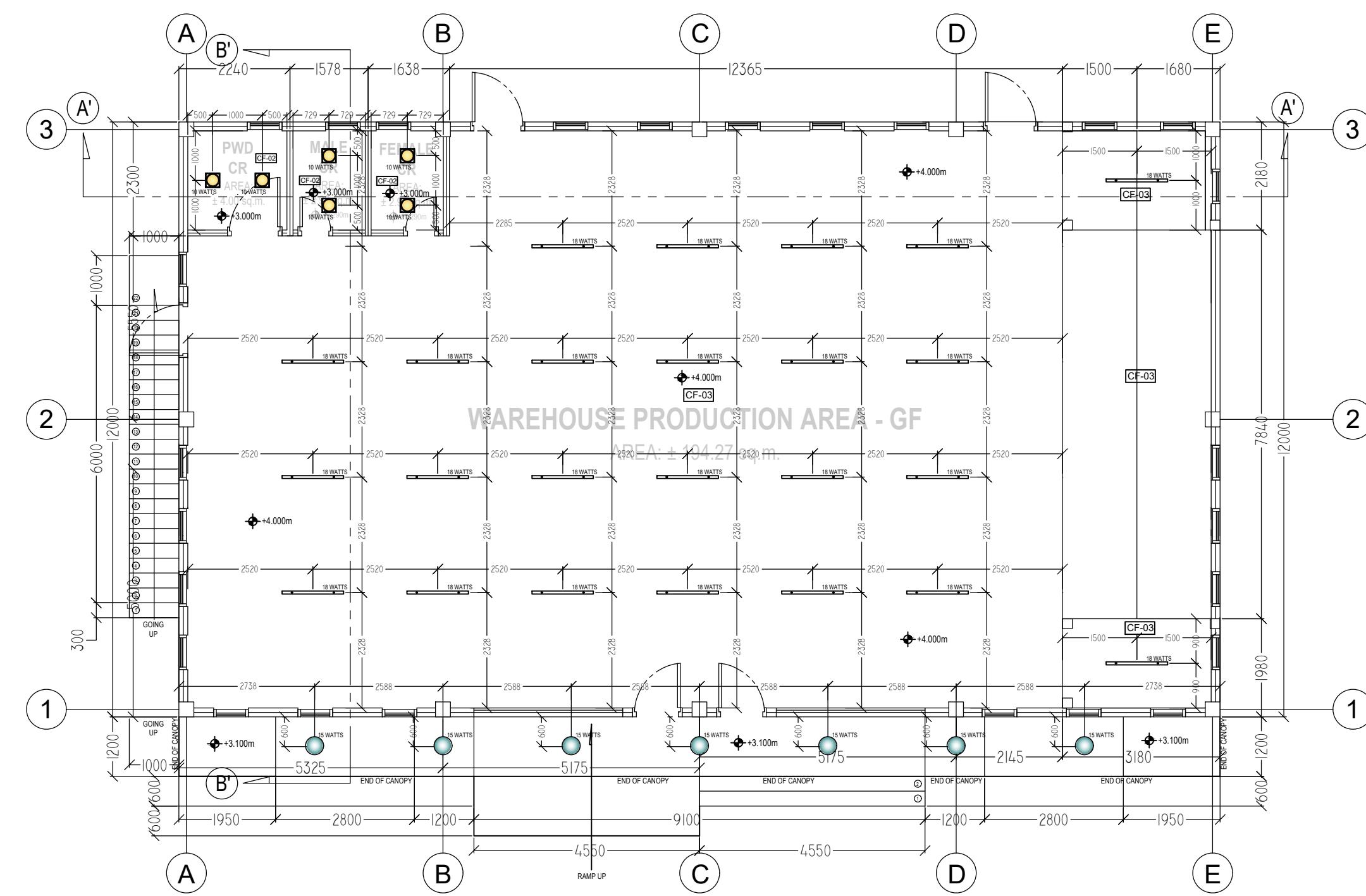
ROOF DECK FLOOR PLAN

AREA: 252.00 sqm.

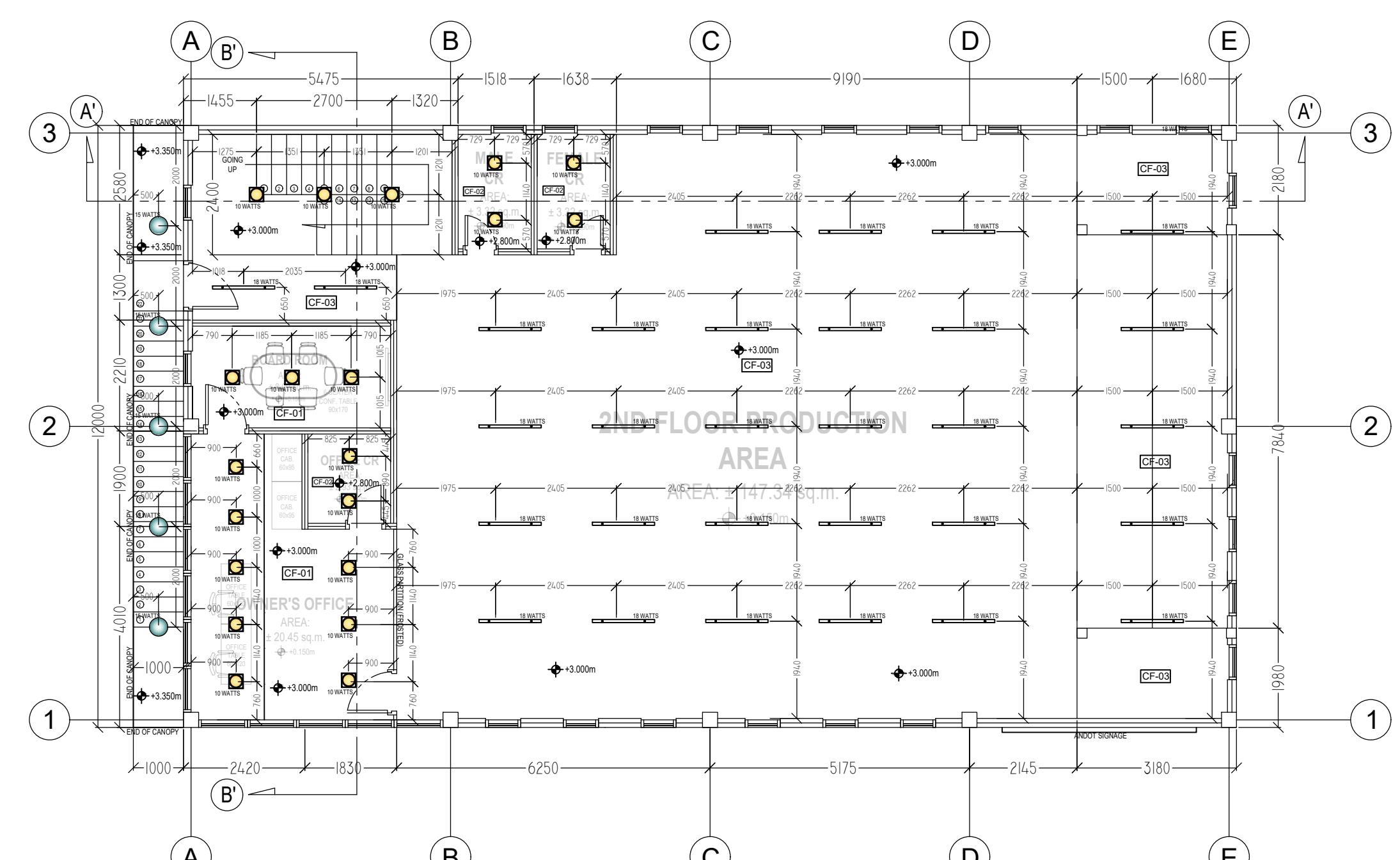
1:150 METERS

09 A-3 SCALE

W, 43.07 M.
(RC) PSD-64896



GROUND FLOOR REFLECTED CEILING PLAN



SECOND FLOOR REFLECTED CEILING PLAN

FROM THE OFFICE OF

SEA

IT SHALL BE UNLAWFUL OF PERSON, WITHOUT WRITTEN CONSENT OF THE ARCHITECT OR AUTHOR OF THE DOCUMENTS TO DUPLICATE THEM TO MAKE COPIES FOR THE USE IN THE REPITITION OF AND OTHER PROJECT OR BUILDING WHETHER EXECUTED PARTLY IN A WHOLE

PROJECT TITLE:

PROPOSED TWO-STORY COMMERCIAL WAREHOUSE BUILDING WITH ROOF DECK

LOCATION: GUADALUPE, CEBU CITY

APPROVED BY:

COLOR LAB APPAREL C/O LOUIE ROCA & HANNAH ROCA

ADDRESS: GUADALUPE, CEBU CITY

REVISION:

BUILDING PERMIT OCCUPANCY PERMIT
 CONSTRUCTION AS-BUILT PLANS

CHECKED BY: ISSUED BY: DATE:

SHEET NO.

A

3

RECOMMENDED ISSUANCE:

HEAD ARCHITECTURAL SECTION DATE
ISSUED BY:

BUILDING OFFICIAL DATE

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NOTES (CEILING FINISHES)

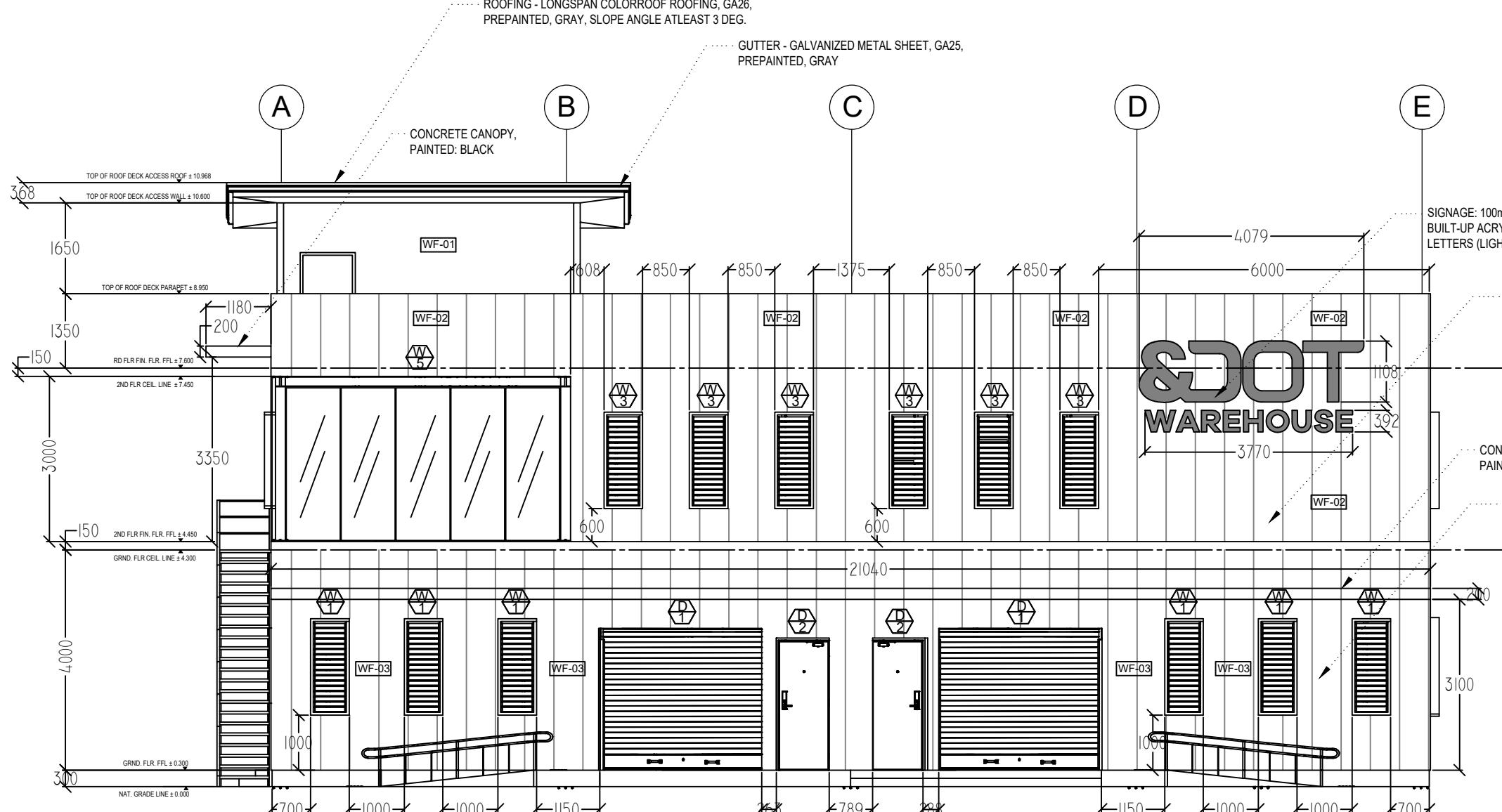
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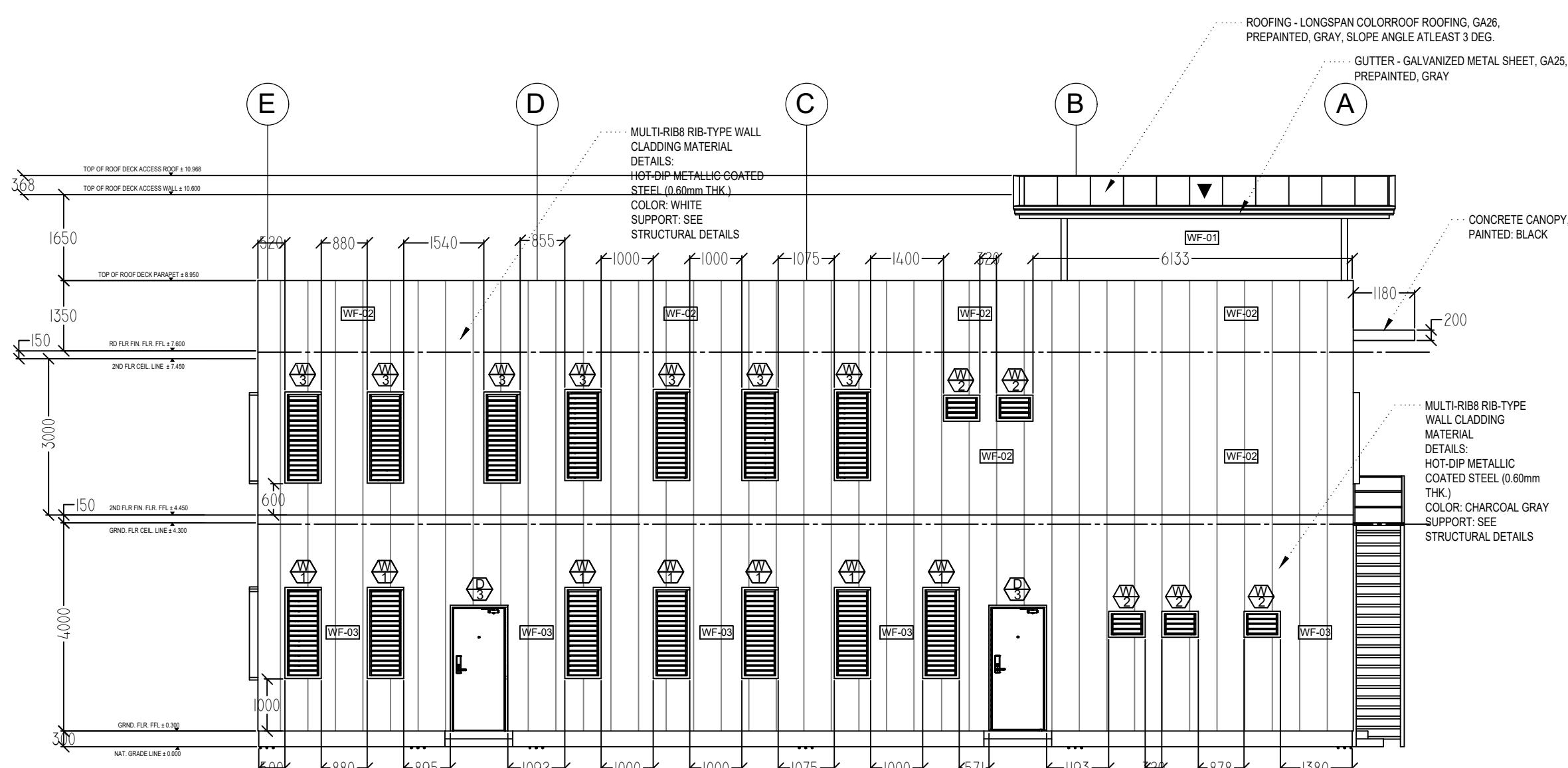
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WALL FINISHES

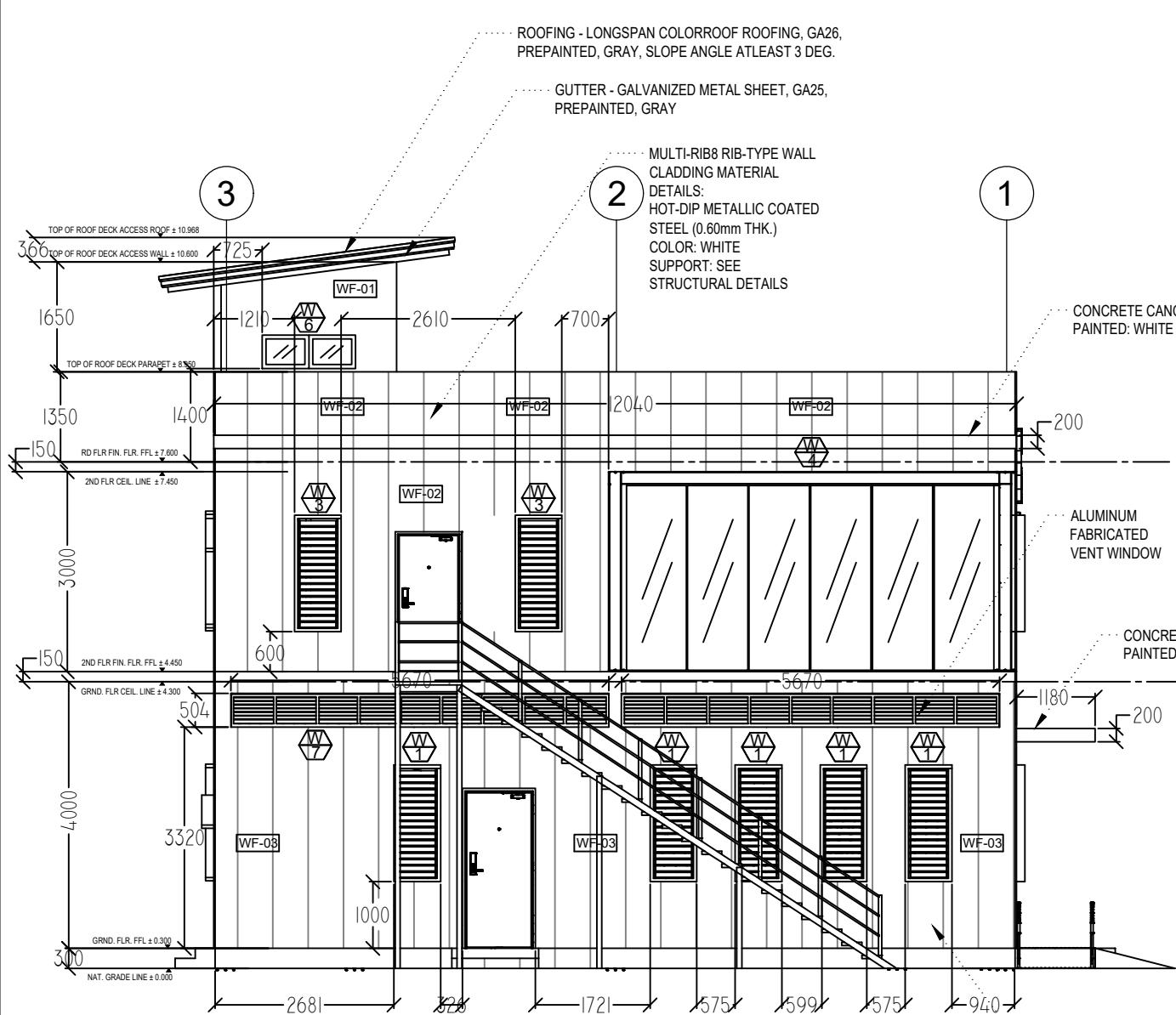
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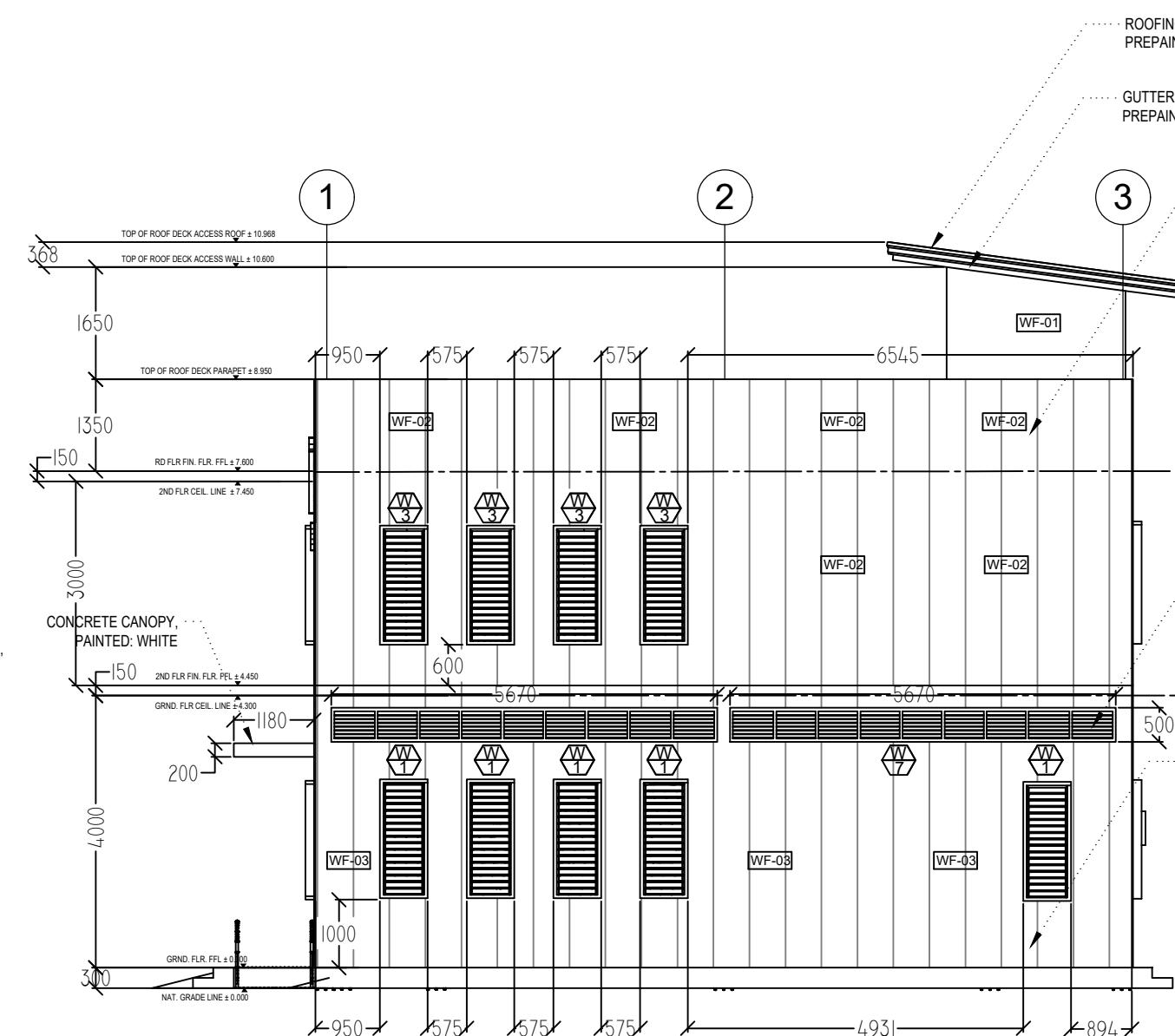
ELEVATION
FRONT VIEW
12
A-4 SCALE 1:100 METERS



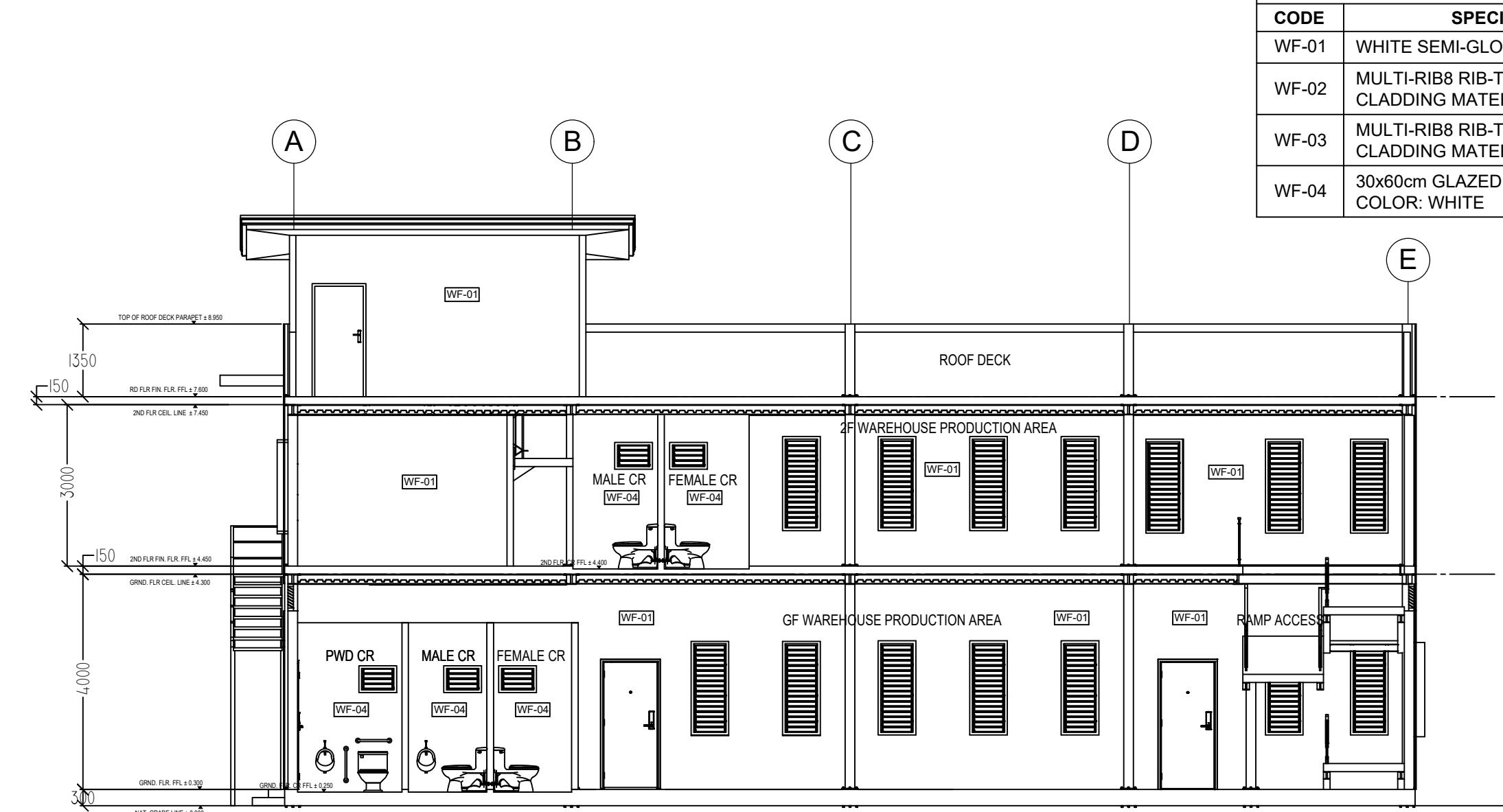
ELEVATION
REAR VIEW
13
A-4 SCALE 1:100 METERS



ELEVATION
LEFT SIDE VIEW
14
A-4 SCALE 1:100 METERS



ELEVATION
RIGHT SIDE VIEW
15
A-4 SCALE 1:100 METERS



SECTION ELEVATION
SECTION THRU A'-A'
16
A-4 SCALE 1:100 METERS

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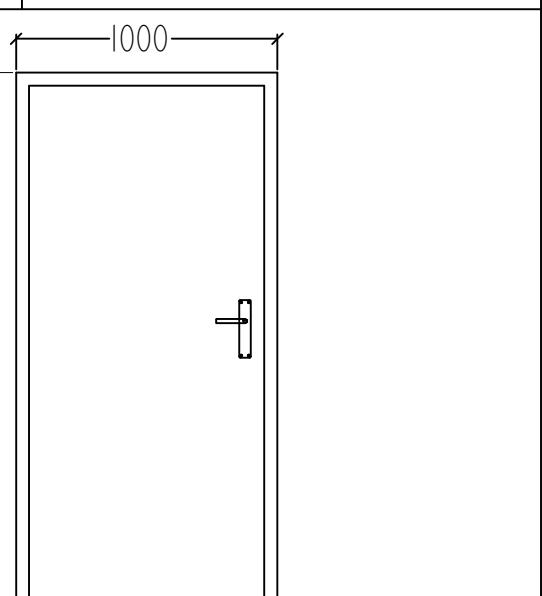
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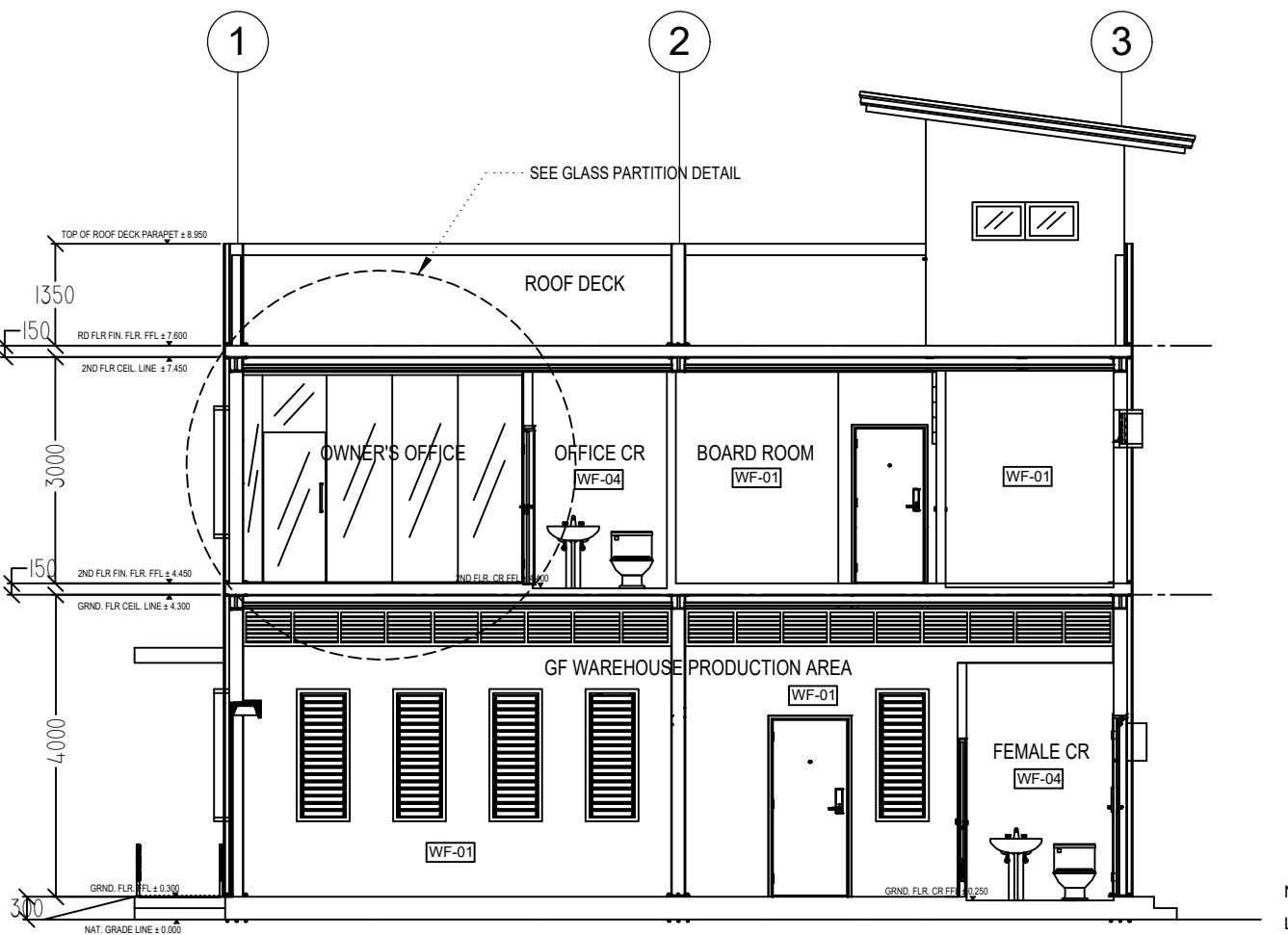
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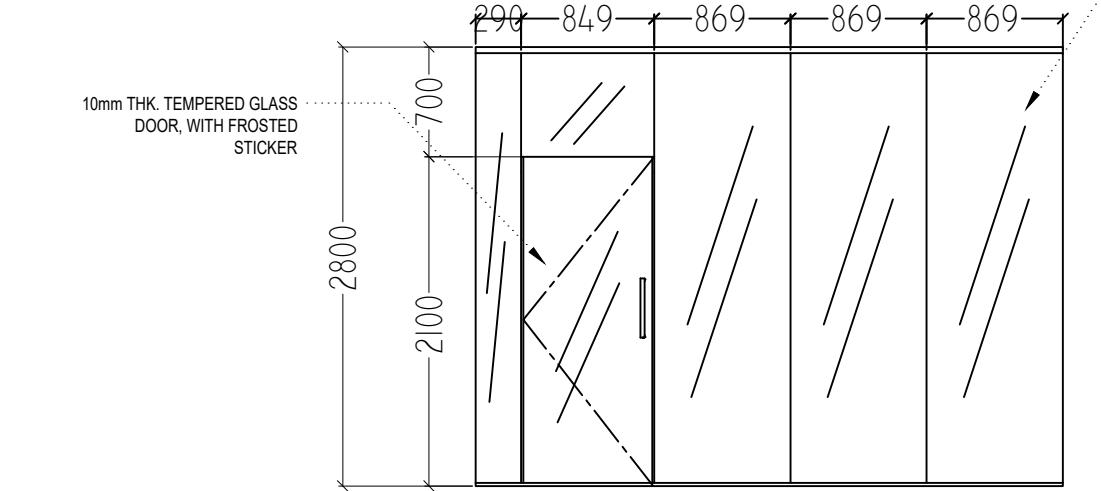


D 9



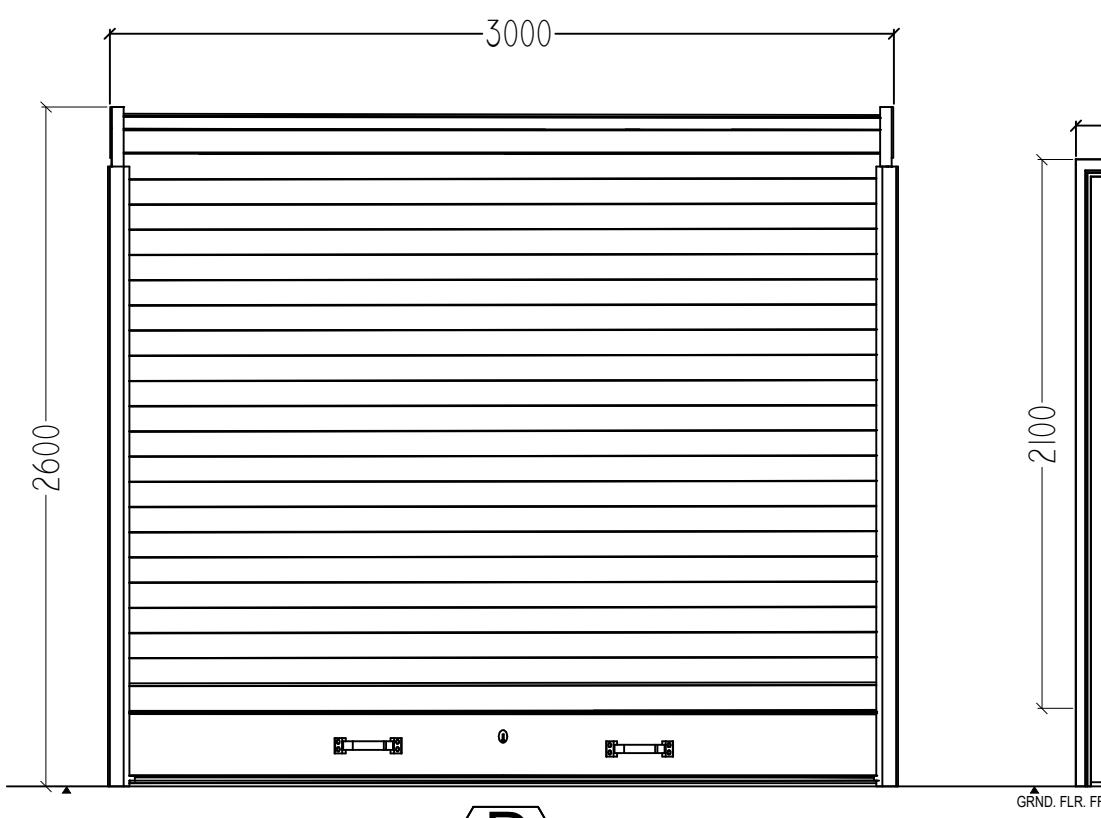
**SECTION ELEVATION
SECTION THRU B'-B'**

SCALE 1:100 METERS



**ARCHITECTURAL
GLASS PARTITION DETAIL**

SCALE 1:50 METERS

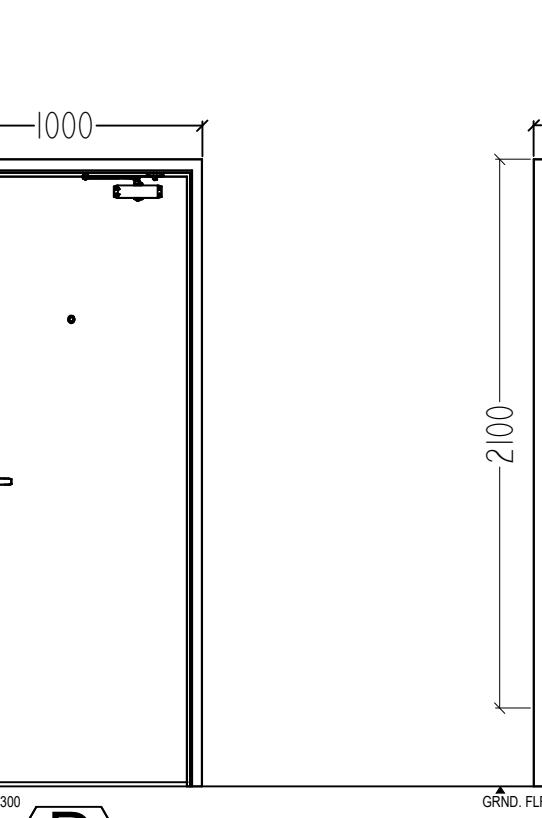


D 1

NO. OF SET(S) : 2
LOCATION : GROUND FLOOR
(WAREHOUSE PRODUCTION AREA)
SPEC. : 3.00m x 2.60 ROLL-UP DOOR
FINISH : MATTE FINISH
COLOR : BLACK

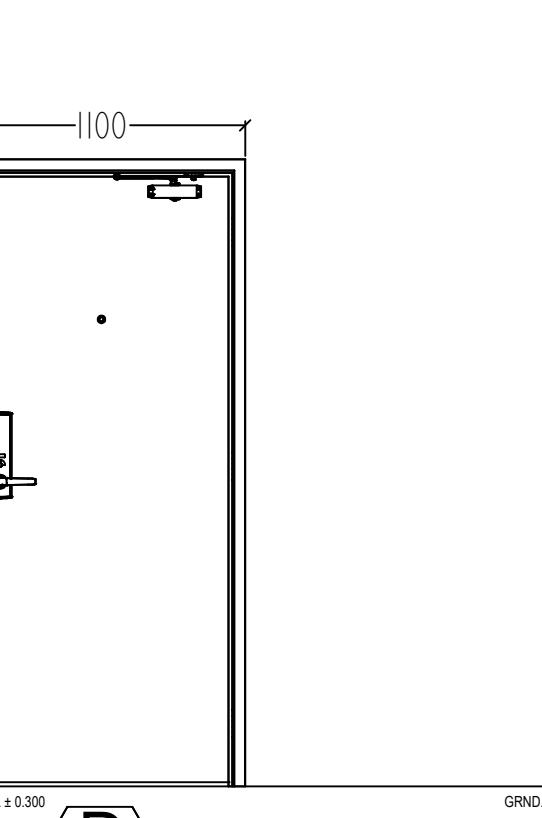
D 2

NO. OF SET(S) : 2
LOCATION : GROUND FLOOR
(WAREHOUSE PRODUCTION AREA)
SPEC. : 1000 mm EXTERIOR
STEEL DOOR
FINISH : MATTE FINISH
COLOR : BLACK



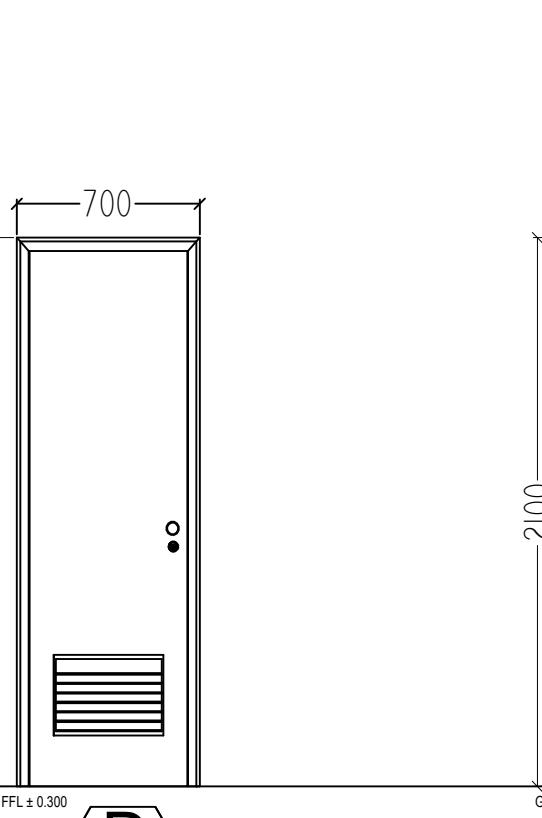
D 3

NO. OF SET(S) : 2
LOCATION : GROUND FLOOR
(WAREHOUSE PRODUCTION AREA EXITS)
SPEC. : 1100 mm EXTERIOR
STEEL DOOR
FINISH : MATTE FINISH
COLOR : BLACK



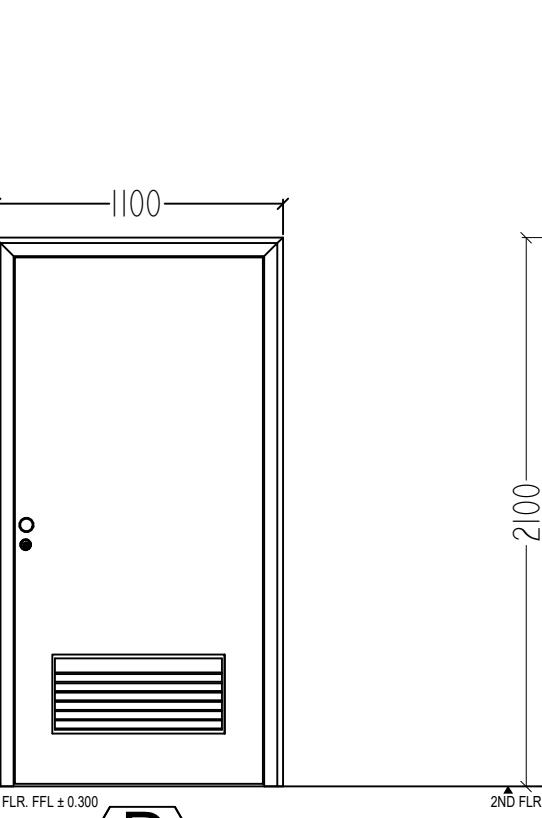
D 4

NO. OF SET(S) : 4
LOCATION : GF & 2F
(MALE & FEMALE CR)
SPEC. : 700 mm INTERIOR
PVC DOOR
FINISH : PVC DOOR
COLOR : WHITE



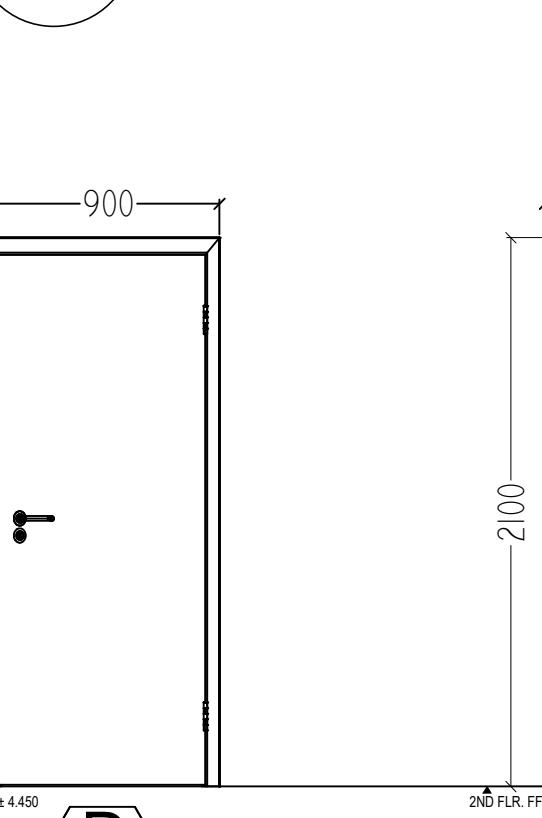
D 5

NO. OF SET(S) : 1
LOCATION : GROUND FLOOR
(PWD CR)
SPEC. : 1100 mm INTERIOR
PVC DOOR
FINISH : PVC DOOR
COLOR : WHITE



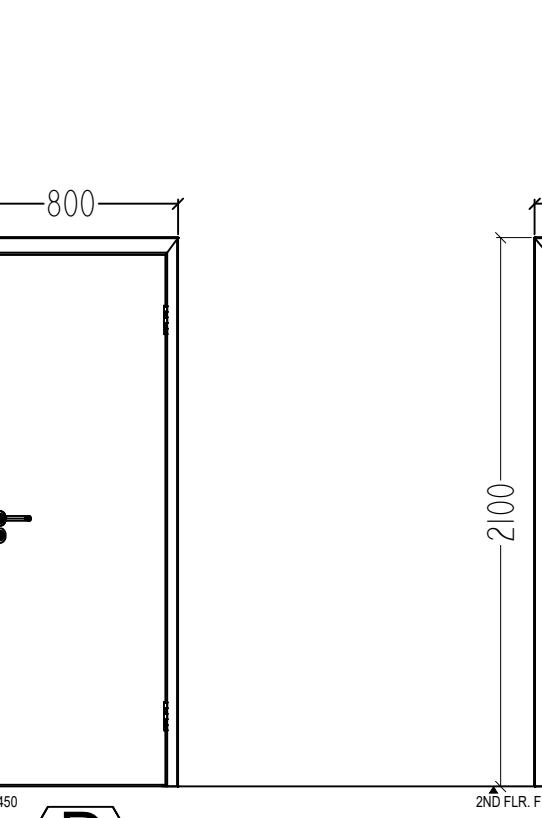
D 6

NO. OF SET(S) : 1
LOCATION : 2ND FLOOR
(OWNER'S OFFICE)
SPEC. : 900 mm INTERIOR
SOLID DOOR
FINISH : WOOD FINISH
LAMINATED
COLOR : WOOD LOOK



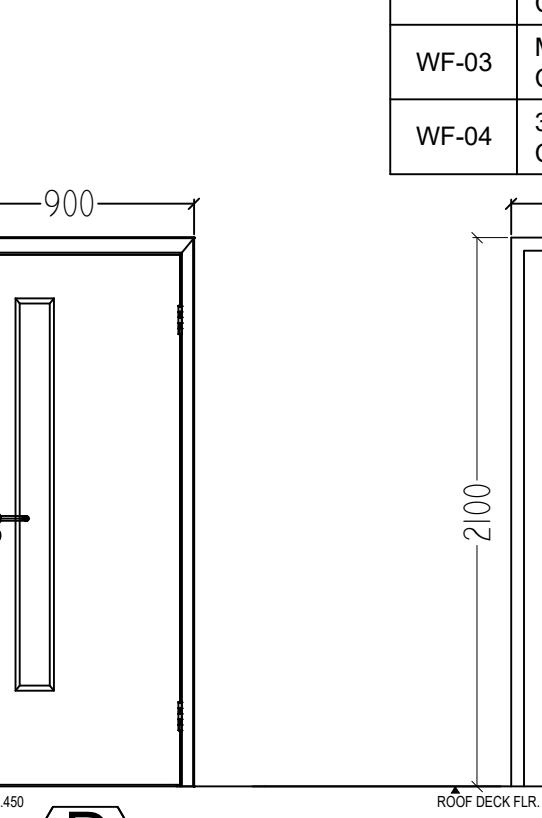
D 7

NO. OF SET(S) : 1
LOCATION : 2ND FLOOR
(OWNER'S OFFICE CR)
SPEC. : 800 mm INTERIOR
SOLID DOOR
FINISH : WOOD FINISH
LAMINATED
COLOR : WOOD LOOK



D 8

NO. OF SET(S) : 1
LOCATION : 2ND FLOOR
(OWNER'S OFFICE)
SPEC. : 900 mm INTERIOR
SOLID DOOR WITH
GLASS PEAK
FINISH : WOOD FINISH
LAMINATED
COLOR : WOOD LOOK



D 9

NO. OF SET(S) : 1
LOCATION : ROOF DECK
(RD OPEN AREA)
SPEC. : 1000 mm EXTERIOR
STEEL DOOR
FINISH : MATTE FINISH
COLOR : BLACK

SCHEDULE OF DOORS

1:30 METERS

20 A-5 SCALE

LOCATION: GUADALUPE, CEBU CITY

APPROVED BY:

COLOR LAB APPAREL C/O LOUIE ROCA & HANNAH ROCA

OWNER

REVISION:

DATE:

REF. DWG.:

DRAWN BY: LRR

THIS DRAWING IS ISSUED FOR:

BUILDING PERMIT OCCUPANCY PERMIT

CONSTRUCTION AS-BUILT PLANS

SHEET NO.

**A
5**

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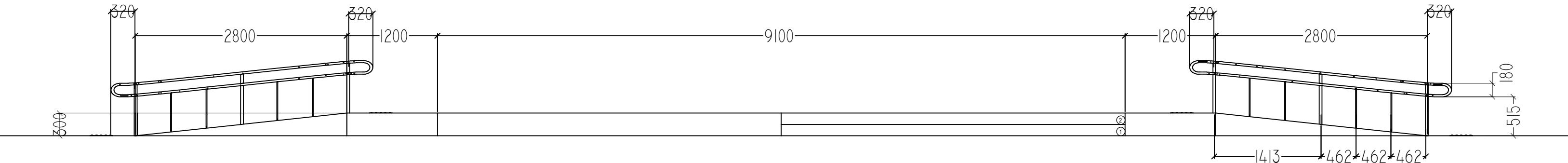
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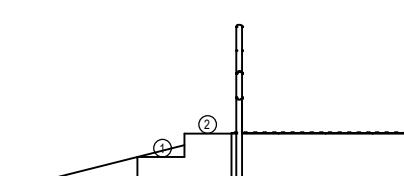
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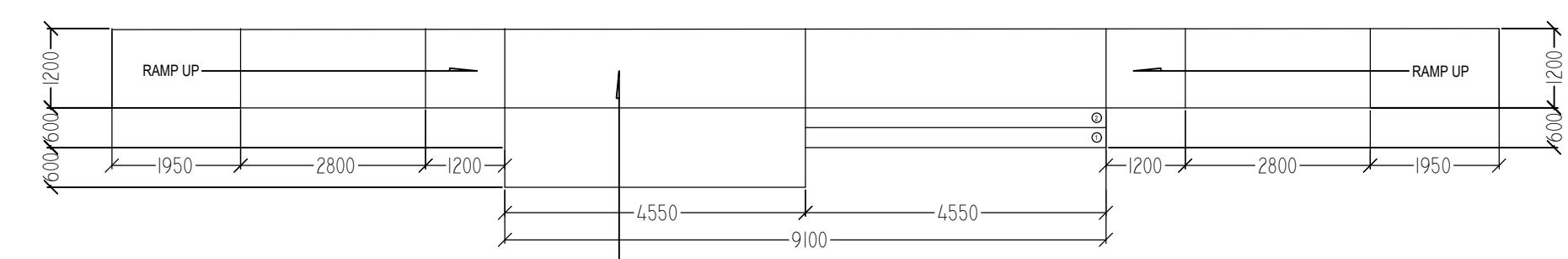
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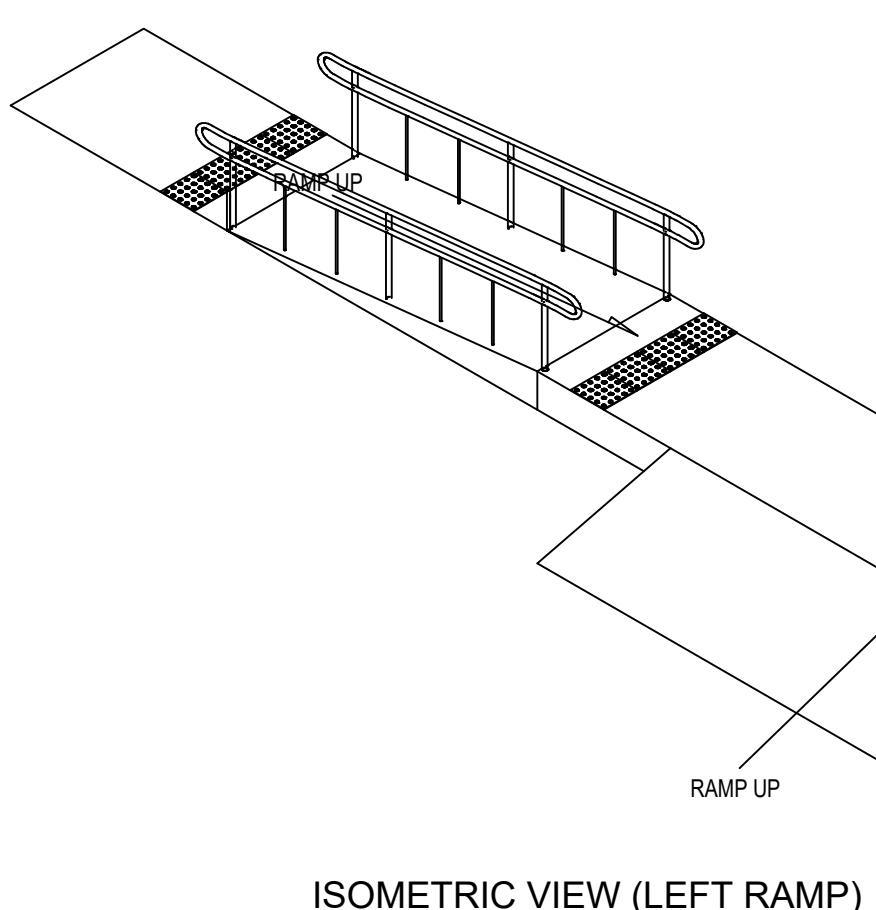
FRONT VIEW



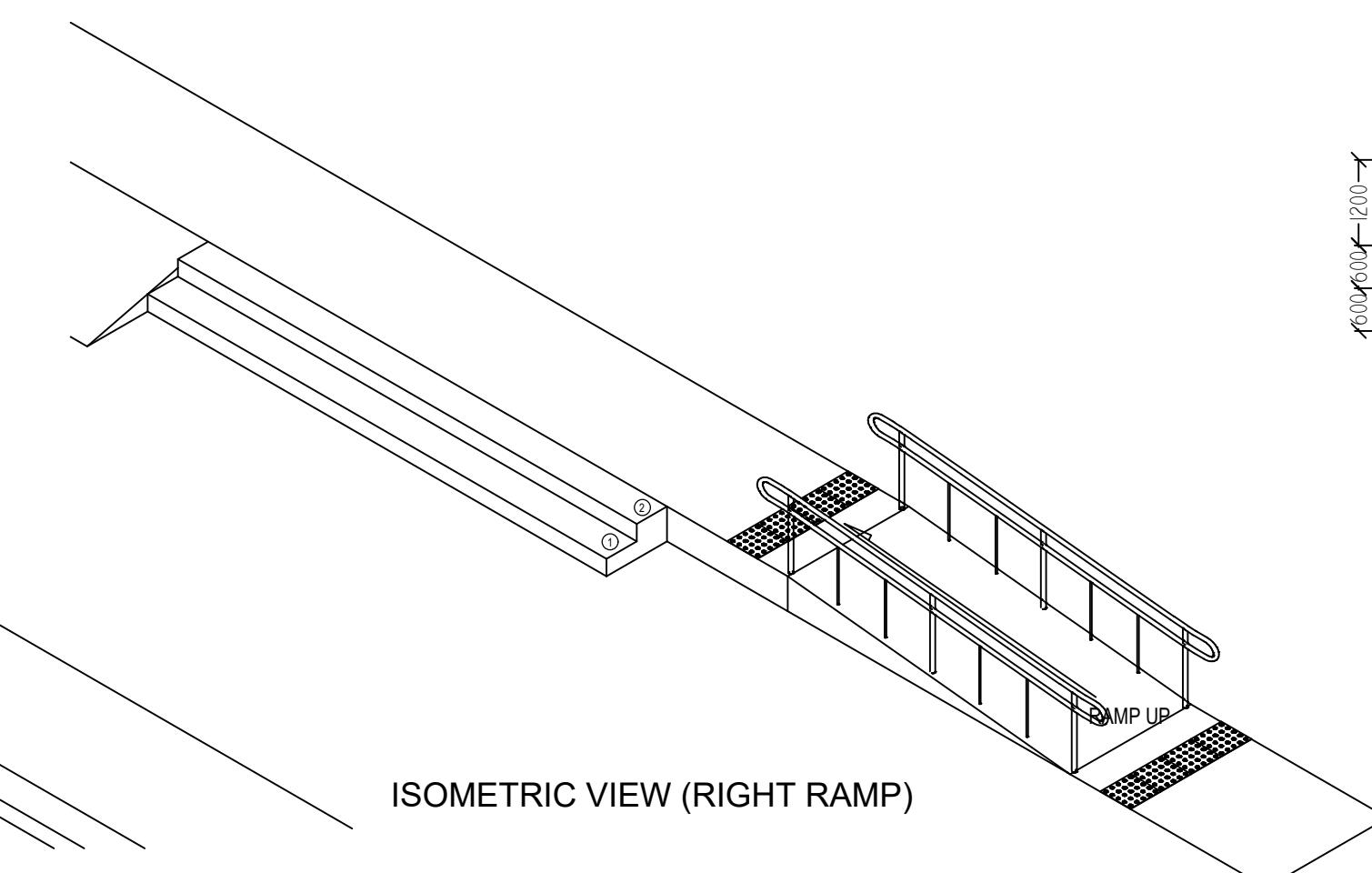
RIGHT SIDE VIEW



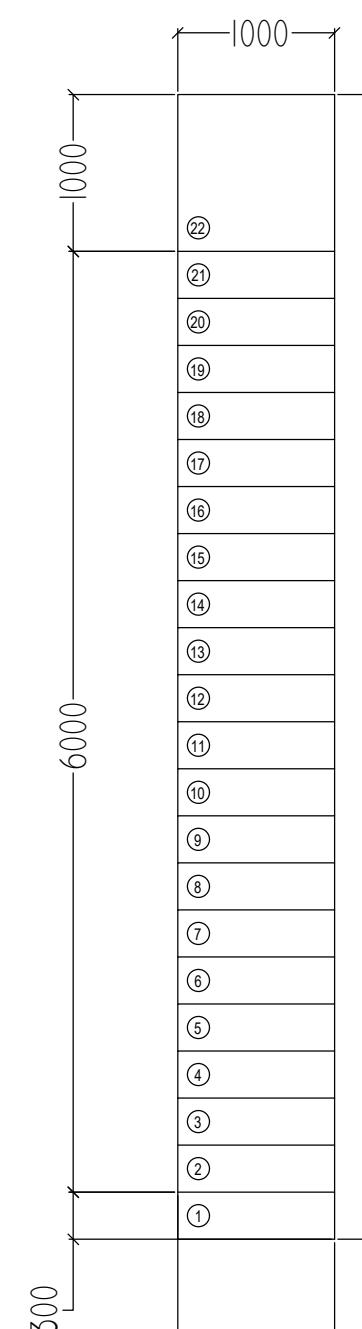
TOP VIEW



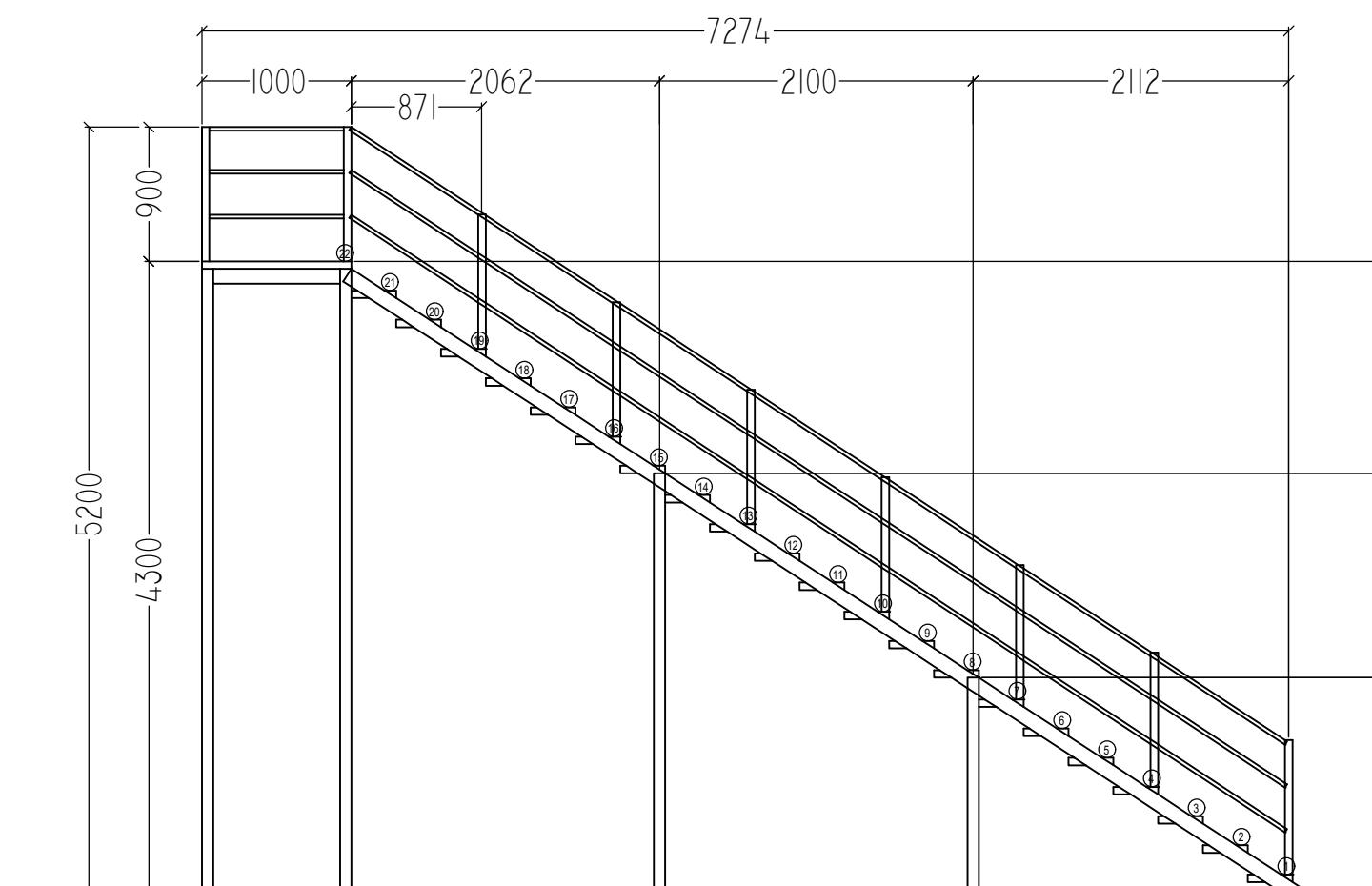
ISOMETRIC VIEW (LEFT RAMP)



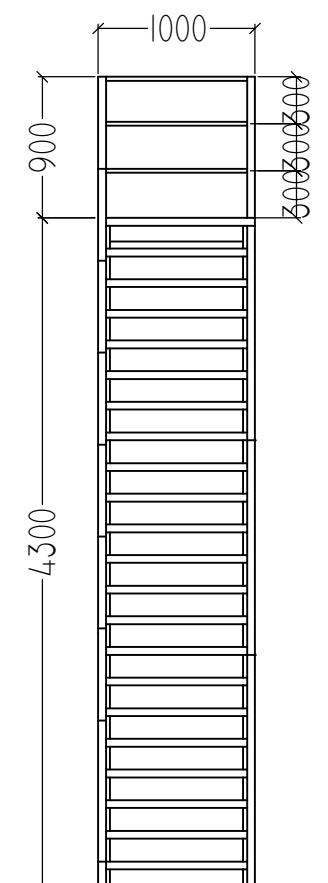
ISOMETRIC VIEW (RIGHT RAMP)



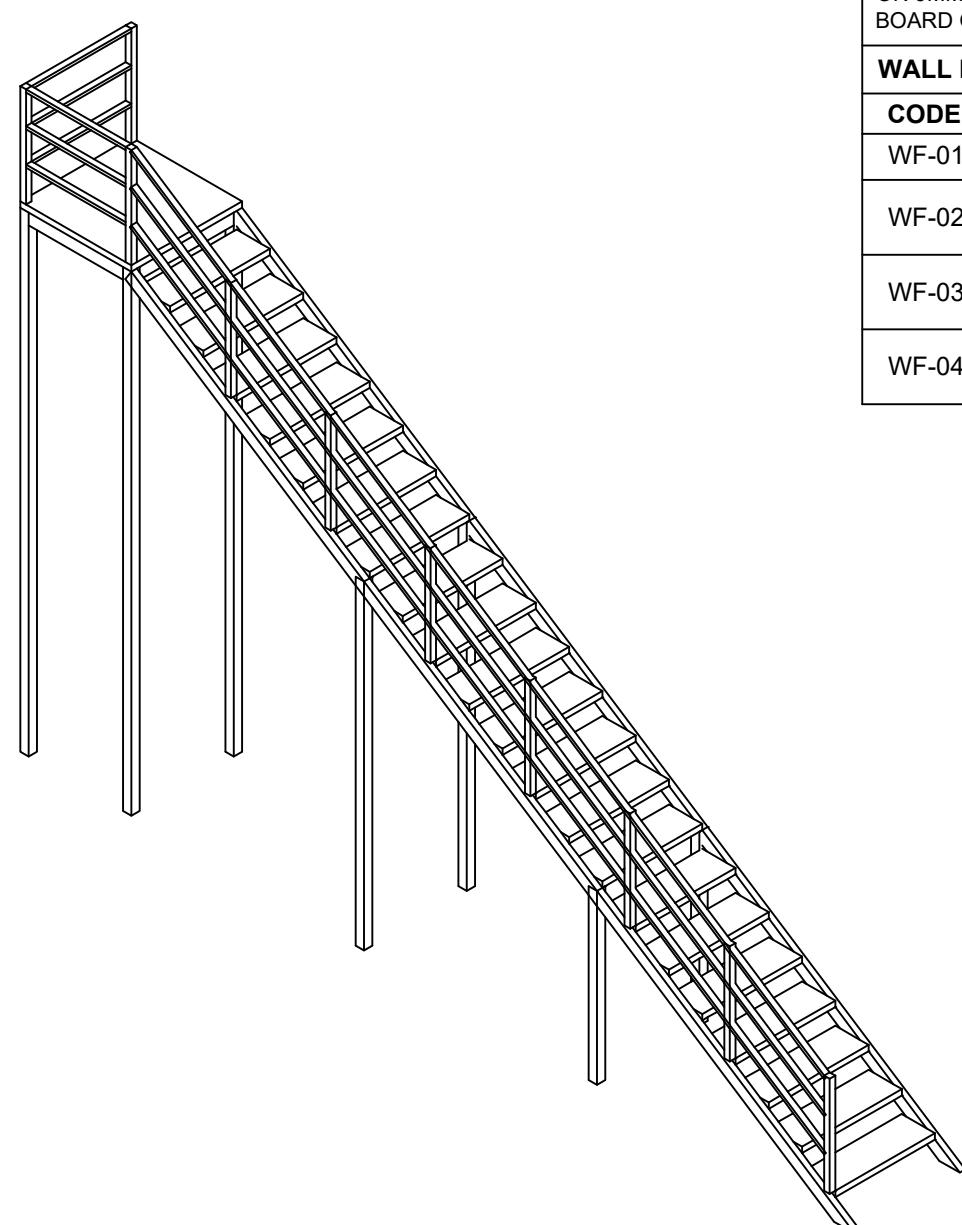
TOP VIEW



LEFT SIDE VIEW



FRONT VIEW



ISOMETRIC VIEW

ARCHITECTURAL STAIR ACCESS DETAIL (GF-2F)

22
A-6
SCALE

1:50 METERS

FROM THE OFFICE OF:

ARCH. JONATHAN G. PEREZ
A R C H I T E C T
REG. NO.: 0018858 PTR. NO.: 0891805
DATE: 03-11-2004 DATE: 01-02-2025
EXP. DATE: 01-03-2027 TIN NO.: 259-157-677

SEAL:

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PROJECT TITLE:

PROPOSED TWO-STORY COMMERCIAL WAREHOUSE BUILDING WITH ROOF DECK

APPROVED BY:

COLOR LAB APPAREL C/O LOUIE ROCA & HANNAH ROCA
O W N E R

REVISION:

THIS DRAWING IS ISSUED FOR:

DATE:
REF. DWG.:
DRAWN BY: LRR

BUILDING PERMIT OCCUPANCY PERMIT
 CONSTRUCTION AS-BUILT PLANS

ADDRESS: LAPU-LAPU CITY, CEBU

LOCATION: GUADALUPE, CEBU CITY

ADDRESS: GUADALUPE, CEBU CITY

CHECKED BY:

ISSUED BY: DATE:

SHEET NO.
**A
6**

GENERAL NOTES

1. ALL WORKS PERFORMED UNDER THE SCOPE OF THIS SPECIFICATION SHALL CONFORM TO THE FOLLOWING CODES AND STANDARDS WHERE APPLICABLE , WHEN A CONFLICT OCCURS, THE COMMUNICATION CONTRACTOR IS DIRECTED TO FOLLOW THE MOST STRINGENT REQUIREMENTS

- A. THE LATEST EDITION OF THE PHILIPPINE ELECTRONICS CODE
- B. THE RULES AND REGULATION OF THE LOCALITY
- C. THE LATEST REVISIONS OF THE ANSI/TIA STANDARDS

2. ALL VOICE AND DATA CABLING WORKS HEREIN INCLUDED SHALL BE EXECUTED BY A MANUFACTURE-CERTIFIED CABLE INSTALLER (CONTRACTOR) UNDER THE DIRECT SUPERVISION OF A FULL TIME LICENSED ELECTRONICS ENGINEER (ECE), THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE COPIES OF THE CERTIFICATION OF THE COMPANY , WITH THE NAMES OF STAFF LISTING THEIR TRAINING AND YEAR OF EXPERIENCE TO PROVIDE PROOF OF COMPLIANCE TO MANUFACTURER'S CERTIFICATION REQUIREMENTS

3. ALL STRUCTURED CABLING WORKS HEREIN SHALL COMPLY WITH THE FOLLOWING:

- A. ANSI/TIA-568-C.1 COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD
- B. ANSI/TIA-569-B COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS & SPACES

4. ALL FLOOR PIPE CHASE, CONDUIT SLEEVES AND WALL PENETRATIONS SHALL BE PROPERLY SEALED-OFF WITH FIRES TOP MATERIAL TO MAINTAIN FIRE RESISTIVE RATING BY THE OPENING

5. ALL MATERIALS NOT FURNISHED BY REQUISITION AND REQUIRED TO COMPLETE THE INSTALLATION OF A STRUCTURED CABLING SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR

6. THE COMMUNICATIONS/AUXILIARY CONTRACTOR SHALL EXAMINE AND STUDY THE ARCHITECTURAL DRAWING, LARGE -SCALE AND FULL -SIZE DETAILS , APPROVED SHOP DRAWING FROM OTHER TRADES AND SHALL FREQUENTLY CONSULT AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICT IN ACTUAL SITE INSTALLATION WORKS

7. THE PLANS AS DRAWN ARE BASED UPON THE ARCHITECTURAL PLANS AND DETAILS THE PLANS ARE DIAGRAMMATICAL , DO NOT SCALE , SHOW ALL FITTINGS,NECESSARY TO FIT TO THE OTHER TRADES AND THE LOCATION OF INFORMATION OUTLETS, APPARATUS AND APPLIANCE SHOWN ON THE PLANS ARE APPROXIMATE

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR PROPER LOCATION IN ORDER TO MAKE THEM FIT WITH THE ARCHITECTURAL DETAILS AND INSTRUCTIONS FROM THE ENGINEER'S REPRESENTATIVE AT THE SITE

9. UPON COMPLETION OF THE STRUCTURED CABLING WORKS, THE FOLLOWING TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS AND IN FORMS APPROVED BY THE OWNERS' REPRESENTATIVE

FIRE DETECTION & ALARM SYSTEM NOTES

10. FIRE ALARM SYSTEM INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF NFPA 72

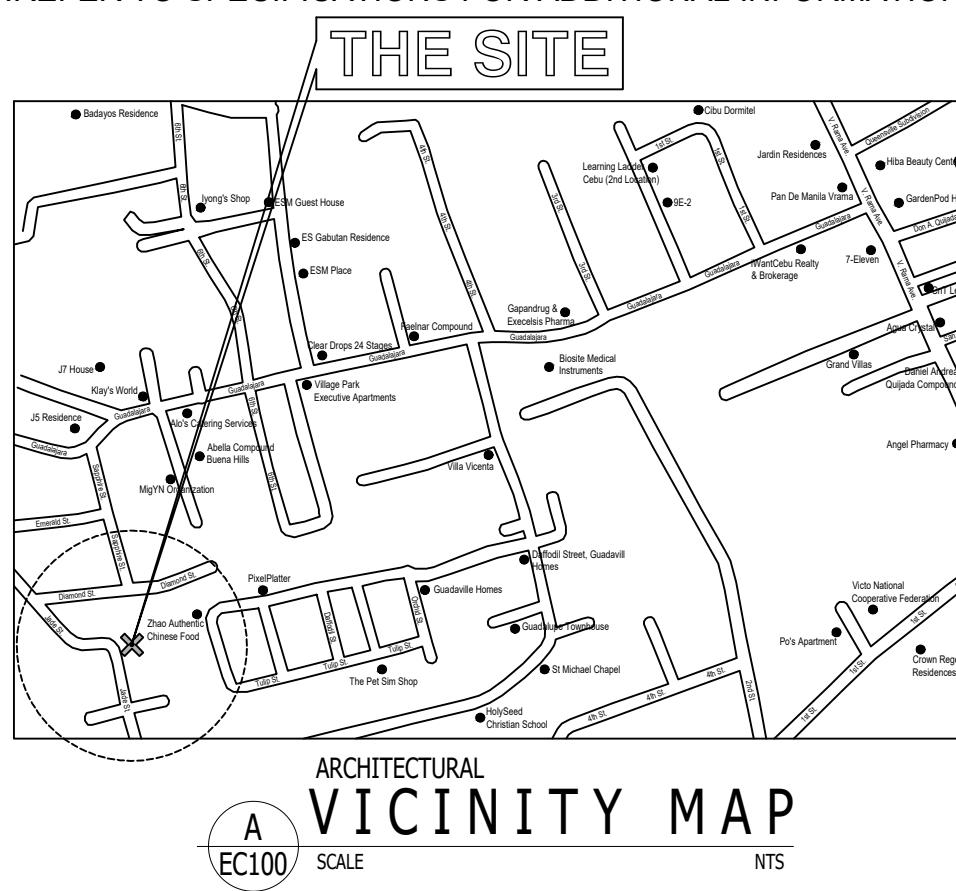
11. DEVIATION FROM THE DESIGN ENGINEER'S LAY OUT WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED

12. PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM

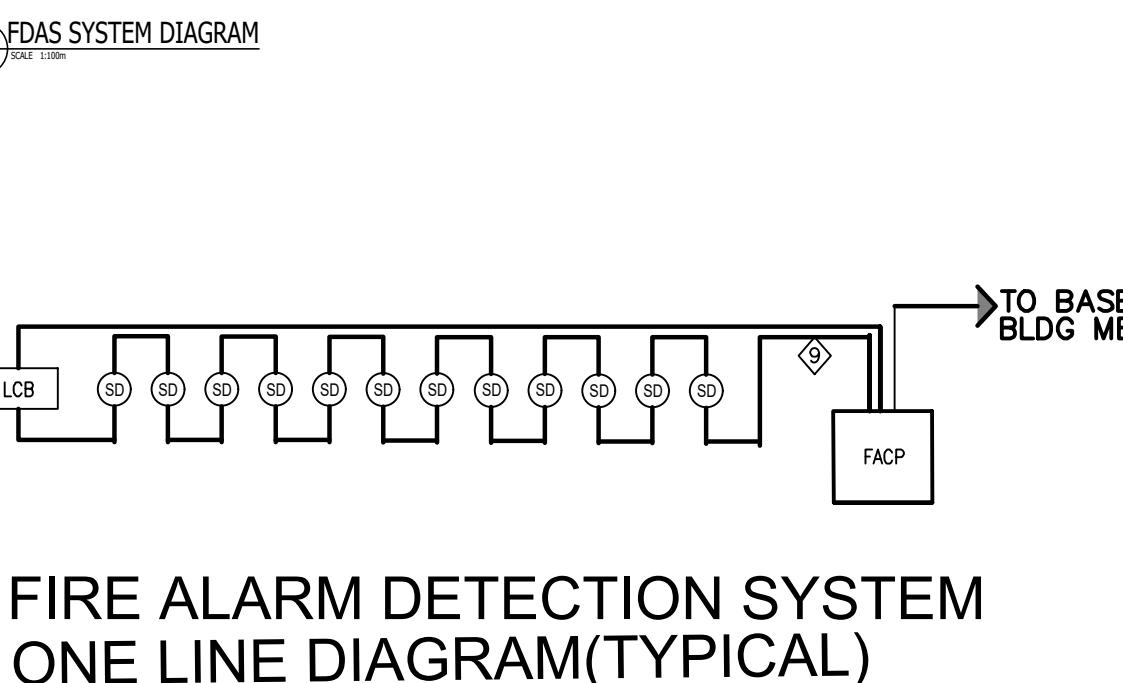
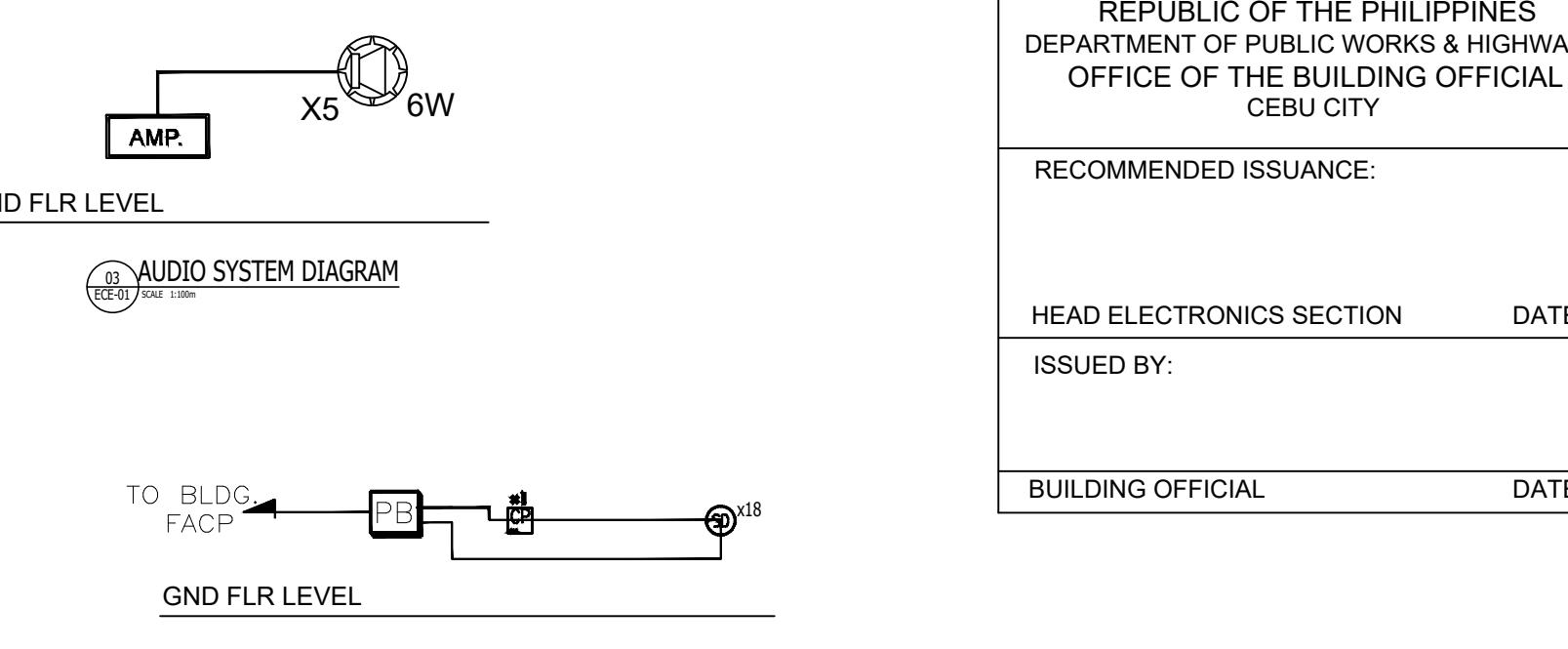
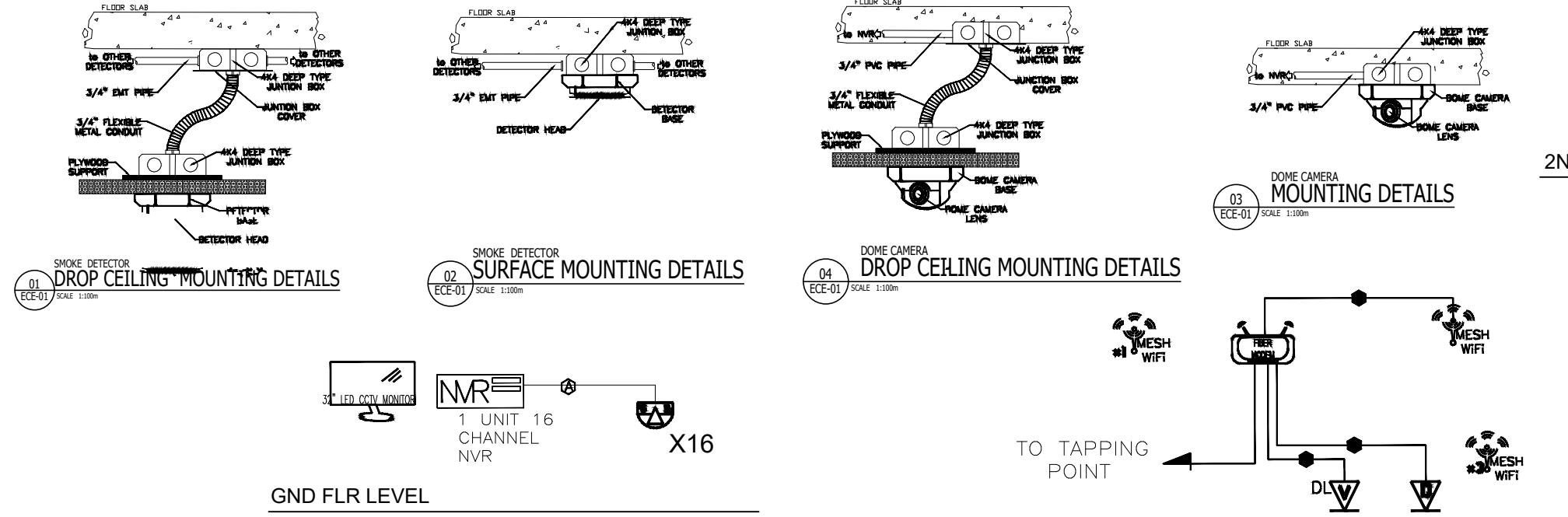
13. THE FIRE ALARM DEVICES MUST BE OF THE SAME MANUFACTURER/BRAND AS THAT CURRENTLY USED BY THE BUILDING

14. ALL FDAS WORK SHALL BE DONE BY BUILDING ACCREDITED CONTRACTOR.

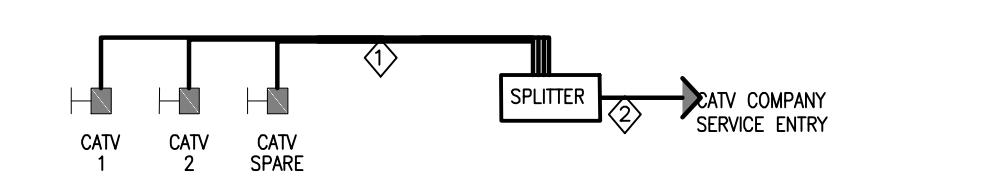
15. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



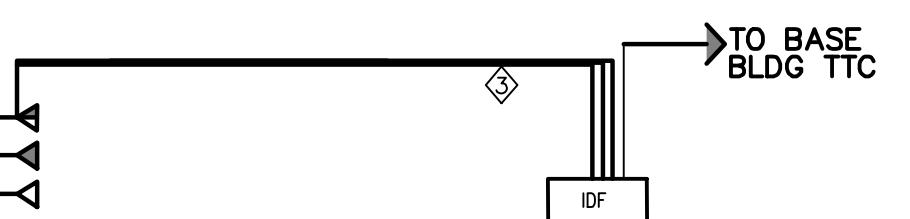
LEGEND	
SYMBOL	DESCRIPTION
(1)	ADDRESSABLE HEAT DETECTOR
(2)	ADDRESSABLE SMOKE DETECTOR
(3)	IP DOME CAMERA, 3MP
(4)	LED CCTV MONITOR
(5)	NETWORK VIDEO RECORDER
(6)	VOICE OUTLET, DIRECT LINE
(7)	POS OUTLET
(8)	DATA OUTLET
(9)	MESH WIFI
FIBER MODEM	
PROJECTOR	
POWERED SPEAKER 1000 WATTS	
LINE ARRAY SPEAKER 2000 WATTS	
POWERED OUTLET	
AMPLIFIER	
FIRE ALARM PULL BOX	
PULL BOX	
TO OTHER CCTV HUB	
MAIN POE-HUB 16 CHANNEL	
1-32" LED MONITOR	
CONDUIT SIZES	
SYMBOL	DESCRIPTION
(1)	1/2" Ø EMT PIPE
(2)	3/4" Ø EMT PIPE
CABLE SCHEDULE	
SYMBOL	DESCRIPTION
(1)	UTP CAT 6 CABLE 4 PAIRS SOLID
(2)	SHIELDED TWISTED PAIR AWG # 16
(3)	SPAKER WIRE AWG # 16



FIRE ALARM DETECTION SYSTEM ONE LINE DIAGRAM(TYPICAL)



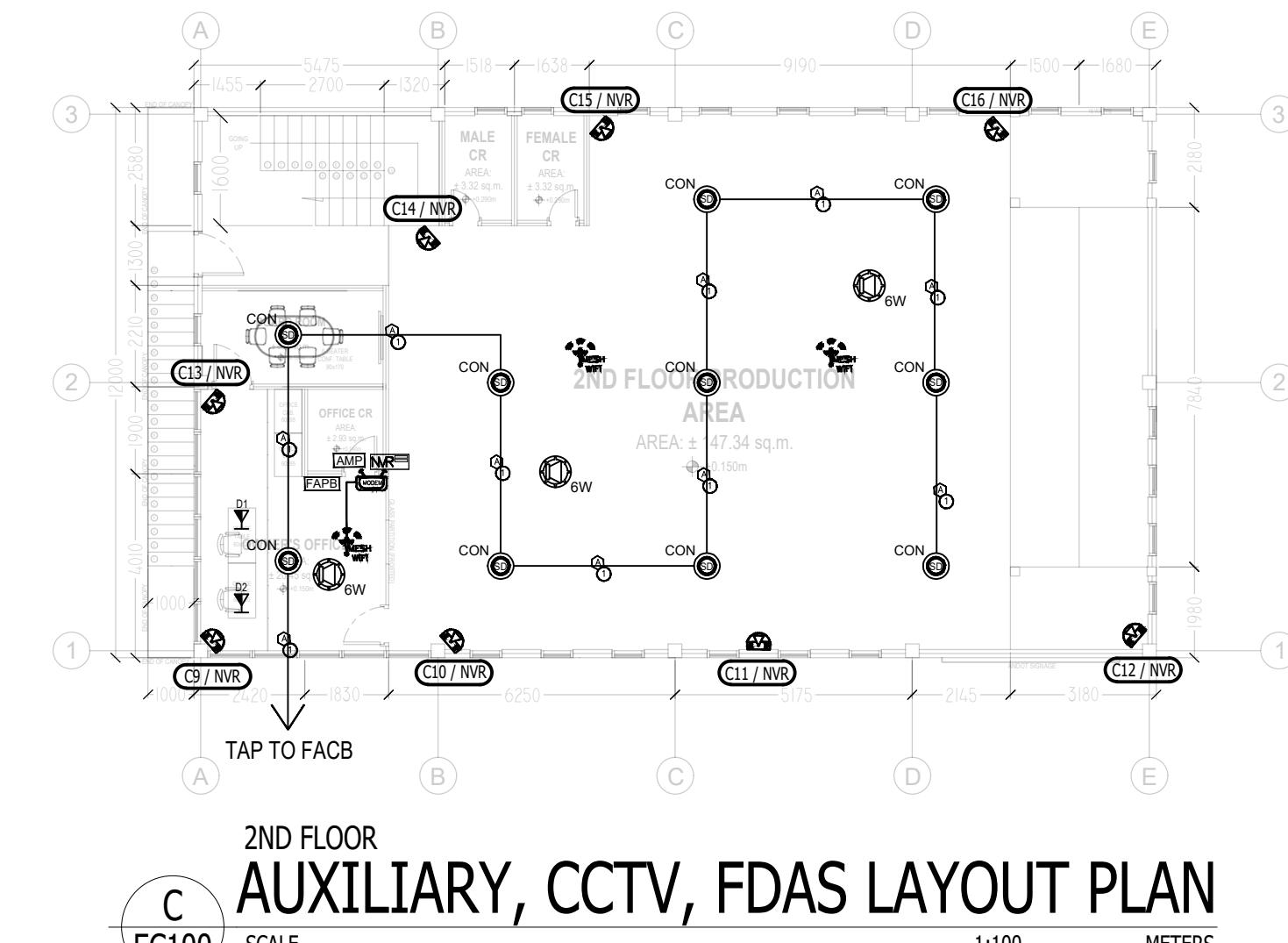
COMMUNITY ACCESS TV SYSTEM ONE LINE DIAGRAM



VOICE/DATA ONE LINE DIAGRAM (TYPICAL)

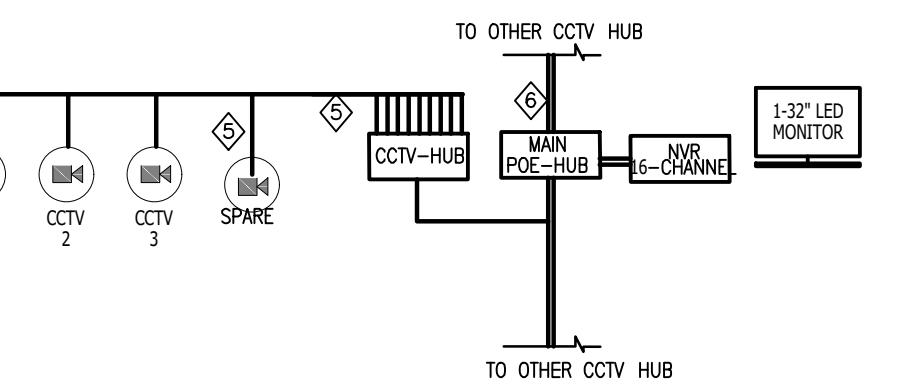
GROUND FLOOR AUXILIARY, CCTV, FDAS LAYOUT PLAN

B EC100 SCALE 1:100 METERS



2ND FLOOR AUXILIARY, CCTV, FDAS LAYOUT PLAN

C EC100 SCALE 1:100 METERS



CCTV ONE LINE DIAGRAM (TYPICAL)

NOTE: CONTRACTOR TO COORDINATE WITH BASEBUILD CONTRACTOR FOR THE INSTALLATION AND PROGRAMMING OF SD.

RECOMMENDED ISSUANCE:

HEAD MECHANICAL SECTION DATE

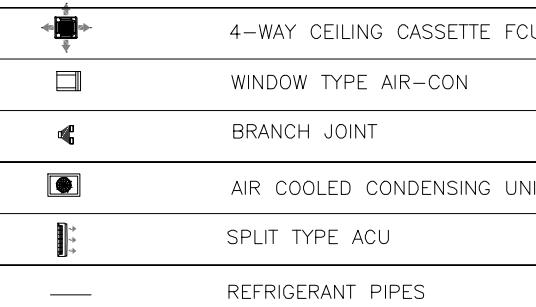
ISSUED BY:

BUILDING OFFICIAL DATE

GENERAL NOTES

- G1. THE WHOLE MECHANICAL INSTALLATION SHALL CONFORM TO THE RULES AND REGULATIONS OF R.A. 8495, OTHERWISE KNOWN AS THE MECHANICAL ENGINEERING ACT OF 1998 IN THE PHILIPPINES. THE BUILDING CODE AND LATEST LOCAL SAFETY ORDINANCES.
- G2. THE WHOLE MECHANICAL INSTALLATION SHALL BE DONE UNDER THE DIRECT AND RESPONSIBLE SUPERVISION OF A DULY LICENSED PROFESSIONAL MECHANICAL ENGINEER.
- G3. ALL EXPOSED PULLEYS AND BELTS SHALL BE PROPERLY ENCASED.
- G4. ALL MOVING PART OF A MACHINE SHALL BE PROVIDED WITH BELT GUARDS.
- G5. ALL MECHANICAL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF APPROVED TYPE FOR BOTH PURPOSE AND LOCATION INTENDED.
- G6. REFRIGERANT SUCTION AND LIQUID LINES SHALL BE INSULATED WITH 19.0mm THICK CLOSED CELL RUBBER INSULATION AND WRAPPED WITH POLYETHYLENE BLUE TAPE.
- G7. ALL FAN COIL TYPES (FCU) SHALL BE PROVIDED WITH AT LEAST 1 1/2 INCHES (32mmØ) DRAIN PVC PIPES.
- G8. PROVIDE PIPE SLEEVES FOR ALL PIPE PASSING THROUGH BUILDING STRUCTURES.
- G9. ALL PIPE EQUIPMENT CONDENSATE DRAIN LINE TO THE NEAREST FLOOR DRAIN OR DRAIN STUB OUT PROVIDED BY THE PLUMBING CONTRACTOR.
- G10. ALL UNITS SHALL BE SUPPORTED PROPERLY TO CARRY ITS TOTAL WEIGHT AND SUSTAIN ITS VIBRATION - AL EFFECTS.
- G11. ALL WORKS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR DATE OF ACCEPTANCE.

LEGEND



ABBREVIATION

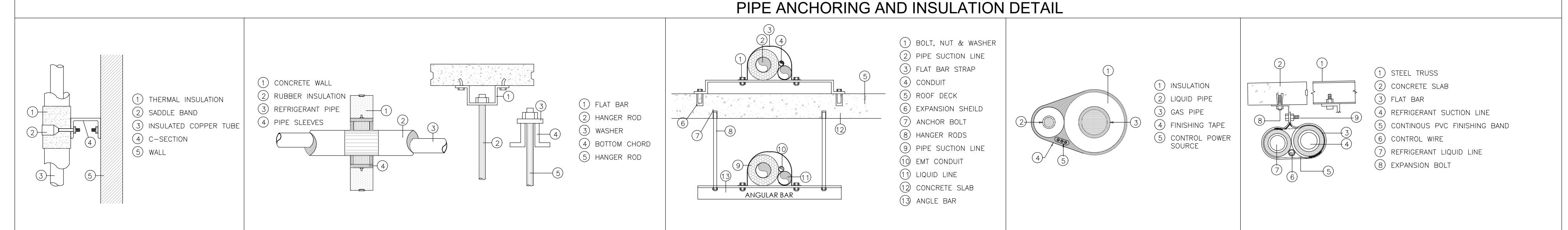
A	AMPERES
ACCU	AIR COOLED CONDENSING UNIT
BTU/HR	BRITISH THERMAL UNIT PER HOUR
FCU	FAN COIL UNIT
GL	GAS LINE
Hz	HERTS
KW	KILO WATTS
mm	MILLIMETER
Ph	PHASE
Qty	QUANTITY
Sq.	SQUARE
V	VOLTS
W	WATTS

NOTES

- N1. ALL REFRIGERANT PIPES SHALL BE INTERNALLY CLEANED BY SWABBING WITH CLEAN COTTON CLOTH TO REMOVE ALL DUST, BURRS, AND OTHER MISCELLANEOUS DIRT.
- N2. WHEN SOLDERING JOINTS, A SWEEP INERT NITROGEN GAS SHOULD BE PASSED THRU PIPES TO PREVENT OXIDATION DEPOSITS INSIDE.
- N3. FITTING INSTALLATION:
 - A. USE STANDARD LONG RADIUS COPPER ELBOWS, REDUCERS, ETC. FIELD-FORMED ELBOWS PIPES, REDUCERS ETC. IS NOT ALLOWED.
 - B. JOINTS BETWEEN PIPES SHOULD BE THRU STANDARD COPPER COUPLING OR FORMED FITTINGS MADE BY SWAGING OR ENLARGING ONE PIPE END TO BE ABLE TO RECEIVE THE OTHER PIPE SECTION. NOT ALLOWED.
 - C. JOIN TO ACCU ACCESSORIES SUCH AS EXPANSION VALVES, FILTER DRIER, ETC. SHALL BE MADE WITH STANDARD FURRED.
- C. ALL INSTALLATION SHOULD BE LEAK TESTED BY SUBJECTING THE SAME (BOTH LIQUID AND SUCTION LINE) TO A PRESSURE OF 100PA USING NITROGEN GAS. THIS PRESSURE SHOULD BE LEFT FOR 42 HOURS AND IF THERE IS NO NOTICEABLE REDUCTION IN PRESSURE WITHIN THE PERIOD, THE NITROGEN CHARGE SHALL BE RELIEVED DOWN TO 140KPA TO SERVE AS HOLDING CHARGE WHILE WAITING FOR THE EQUIPMENT CONNECTION.

NOTE:

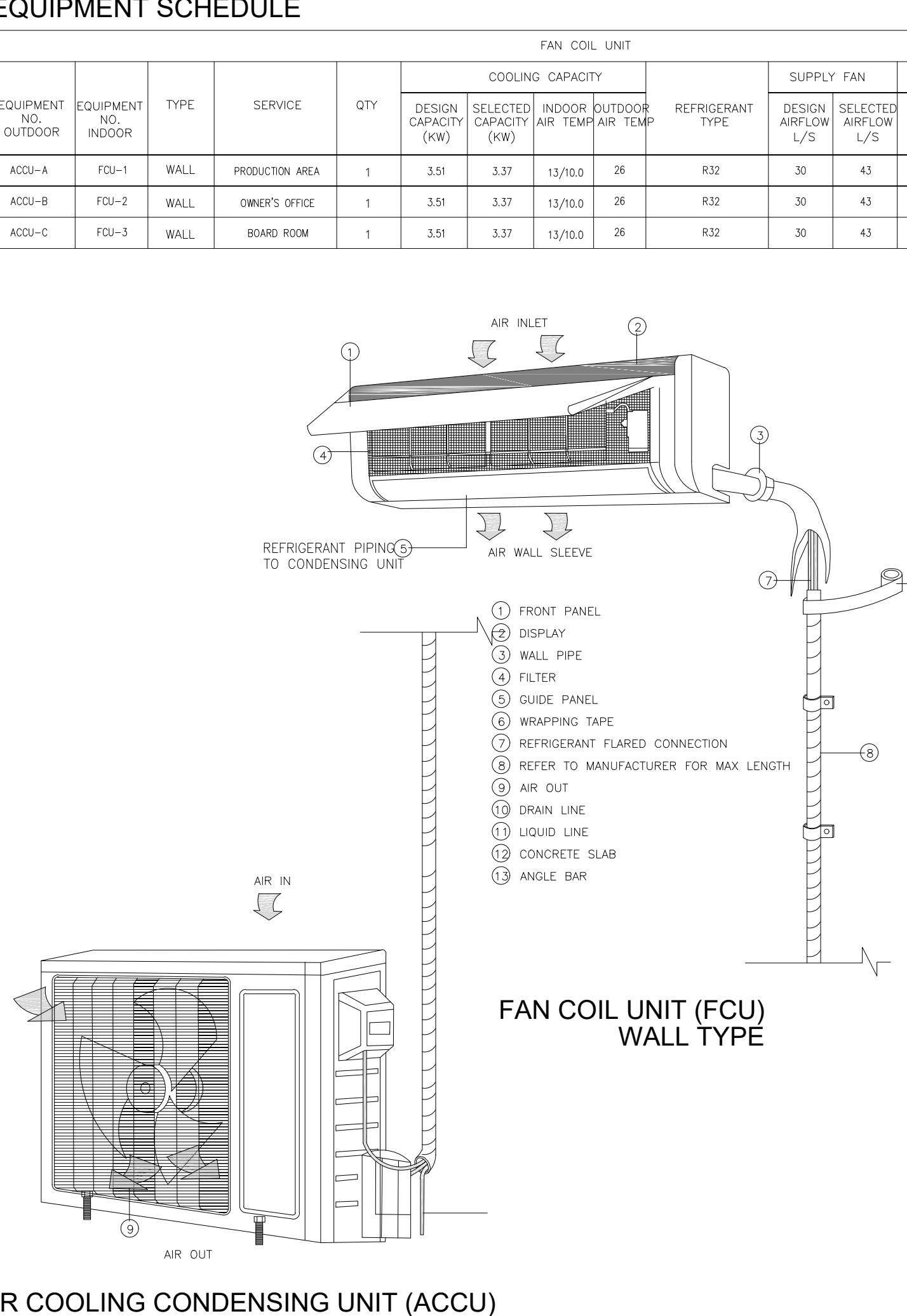
1. PROVIDE VIBRATION ISOLATOR IN ALL FCU UNIT.
2. USE DAIKIN VRV TYPE ACCU.
3. USE P-TRAP CONNECTION INSTEAD (T) CONDUIT.
4. ACCU LOCATION SHALL BE APPROVE BY BASE BUILDING ENGINEER.
5. 230V 1 PHASE 60HZ ACCU POWER SUPPLY



EQUIPMENT SCHEDULE

FAN COIL UNIT										SUPPLY FAN					
EQUIPMENT NO.	EQUIPMENT NO. OUTDOOR	TYPE	SERVICE	QTY	COOLING CAPACITY		REFRIGERANT TYPE	SUPPLY FAN			ELECTRICAL CHARACTERISTIC				
					DESIGN CAPACITY (kW)	SELECTED CAPACITY (kW)		INDOOR AIR TEMP	OUTDOOR AIR TEMP	POWER IN(kW)	V	PH	Hz		
ACCU-A	FCU-1	WALL	PRODUCTION AREA	1	3.51	3.37	R32	13/10.0	26	30	43	1.5	230	1	60
ACCU-B	FCU-2	WALL	OWNER'S OFFICE	1	3.51	3.37	R32	13/10.0	26	30	43	1.0	230	1	60
ACCU-C	FCU-3	WALL	BOARD ROOM	1	3.51	3.37	R32	13/10.0	26	30	43	1.5	230	1	60

AIR COOLED CONDENSING UNIT									
EQUIPMENT NO.	SERVICE	QTY	COOLING CAPACITY		REFRIGERANT TYPE	ELECTRICAL CHARACTERISTIC			
			DESIGN CAPACITY (TON)	SELECTED CAPACITY (TON)		POWER IN(kW)	V	PH	Hz
ACCU-A	PRODUCTION AREA	1	1.0	1.0	R32	1.492	230	1	60
ACCU-B	OWNER'S OFFICE	1	1.0	1.0	R32	0.746	230	1	60
ACCU-C	BOARD ROOM	1	1.0	1.0	R32	1.492	230	1	60



**MECHANICAL
FCU&ACCU DETAILS**

02

M-1

SCALE NTS

**MECHANICAL - FCU & ACCU DETAILS
GROUND FLOOR PLAN**

03

M-1

1:150

METERS

**MECHANICAL - FCU & ACCU DETAILS
SECOND FLOOR PLAN**

04

M-1

1:150

METERS

SCALE

FROM THE OFFICE OF:

ENGR. MARK ANTHONY S. RUIZO
PROFESSIONAL MECHANICAL ENGINEER
REG. NO.: 000609 PTR. NO.: 0407766
DATE: 12-22-2023 DATE: 01-10-2025
EXP. DATE: 12-17-2026 TIN NO.: 316-164-156

SEAL:

IT SHALL BE UNLAWFUL OF ANY PERSON, WITHOUT WRITTEN CONSENT OF THE ARCHITECT OR AUTHOR OF THE SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES FOR THE USE IN THE REPLICATION OF AND OR OTHER PROJECT OR BUILDING WHETHER EXECUTED PARTLY OR IN A WHOLE

REPUBLIC ACT 545

PROJECT TITLE:

PROPOSED TWO-STORY COMMERCIAL
WAREHOUSE BUILDING WITH ROOF DECK

APPROVED BY:

COLOR LAB APPAREL C/O LOUIE ROCA & HANNAH ROCA
OWNER

REVISION:

THIS DRAWING IS ISSUED FOR:

BUILDING PERMIT OCCUPANCY PERMIT
 CONSTRUCTION AS-BUILT PLANS

SHEET NO.

M
1

NOTE:
1. PROVIDE VIBRATION ISOLATOR IN ALL FCU UNIT.
2. USE DAIKIN VRV TYPE ACCU.
3. USE P-TRAP CONNECTION INSTEAD (T) CONDUIT.
4. ACCU LOCATION SHALL BE APPROVE BY BASE BUILDING ENGINEER.
5. 230V 1 PHASE 60HZ ACCU POWER SUPPLY

CHECKED BY: ISSUED BY: DATE:

DATE:

REF. DWG.:

DRAWN BY:

DATE:

REVISION:

DATE:

APPROVED:

DATE:

ISSUED:

DATE:

RECOMMENDED ISSUANCE:

HEAD MECHANICAL SECTION DATE

ISSUED BY:

BUILDING OFFICIAL DATE

RECOMMENDED ISSUANCE:

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RECOMMENDED ISSUANCE:

HEAD MECHANICAL SECTION DATE

RECOMMENDED ISSUANCE:	
HEAD MECHANICAL SECTION	DATE
ISSUED BY:	
BUILDING OFFICIAL	DATE

GENERAL NOTES:

SPRINKLER SYSTEM

1. THE FIRE PROTECTION SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES & REGULATIONS:

THE FIRE CODE OF THE PHILIPPINES & REGULATIONS
NATIONAL BUILDING CODE OF THE PHILIPPINES

PMC - PHILIPPINE MECHANICAL CODE 2003

NFPA 10 - STANDARD FOR PORTABLE FIRE EXTINGUISHER

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM

NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEM

NFPA 20 - STANDARD FOR THE INSTALLATION OF CENTRIFUGAL FIRE PUMP

NFPA 101 - LIFE SAFETY CODE

NFPA 5000 - BUILDING CONSTRUCTION AND SAFETY CODE

UNDERWRITERS LABORATORIES, INC.(UL)

FACTORY MUTUAL (FM)

ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS

NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

2. DESIGN CRITERIA:

A. TYPE OF OCCUPANCY : LIGHT
SYSTEM CLASS : OFFICE

B. TYPE OF OCCUPANCY : ORDINARY HAZARD I
SYSTEM CLASS : PARKING AREA

3. WATER FLOW DEVICES SHALL BE OF THE APPROVED TYPE.

4. ALL VALVES SHALL BE SECURED BY A PADLOCK AND STRAP IN THE CORRECT OPERATIONAL POSITION.

5. ALL ISOLATING VALVES FOR THE SYSTEM SHALL BE:
A) INDIVIDUALLY SUPERVISED AND MONITORED SUCH THAT THE CLOSING OF ANY PARTICULAR VALVE WILL RAISE A VISUAL AND AUDIO ALARM IN THE MAIN FIRE ALARM PANEL LOCATED IN THE COMMAND AND CONTROL CENTER PINPOINTING THE VALVE INVOLVED.

B) LOCATED IN AREAS SUCH THAT THEY ARE EASILY ACCESSIBLE TO AUTHORIZED PERSONNEL FOR MAINTENANCE AND EMERGENCY OPERATION.

6. PROVIDE PIPE FLEXIBLE CONNECTORS/EXPANSION JOINTS FOR ALL SERVICES PASSING THRU TO ALL BUILDING EXPANSION JOINTS.

7. ALL PIPE PENETRATIONS THRU FIRE RATED WALLS SHALL BE PROVIDED WITH FIRE STOPPING MATERIALS.

8. PROVIDE VICTAULIC CONNECTION FOR EVERY LENGTH OF PIPE 65Ø AND ABOVE.

9. PIPING TO BE SCH.# 40 BLACK IRON PIPE, FITTINGS 50MM AND SMALLER SHALL BE SCREWED TYPE, 65MM AND LARGER SHALL BE VICTAULIC TYPE.

10. ALL FIRE PROTECTION WORKS AND INSTALLATION SHALL BE SUPERVISED BY A LICENSED MECHANICAL ENGINEER.

11. ALL PIPE PASSING THRU SLAB, BEAM & WALL SHALL BE PROVIDED W/ FIRE RATED SEALANT.

12. FINAL LOCATION OF SPRINKLER SHALL BE COORDINATED WITH ARCHITECTURAL CEILING TILES AND ID DESIGN LAYOUT.

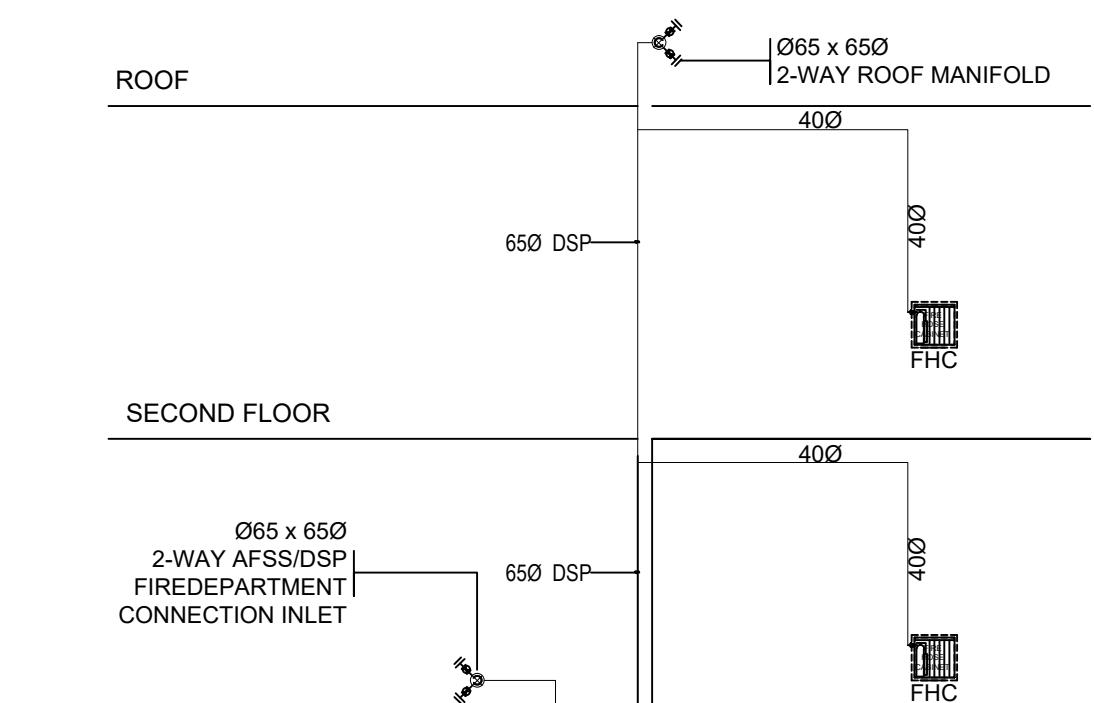
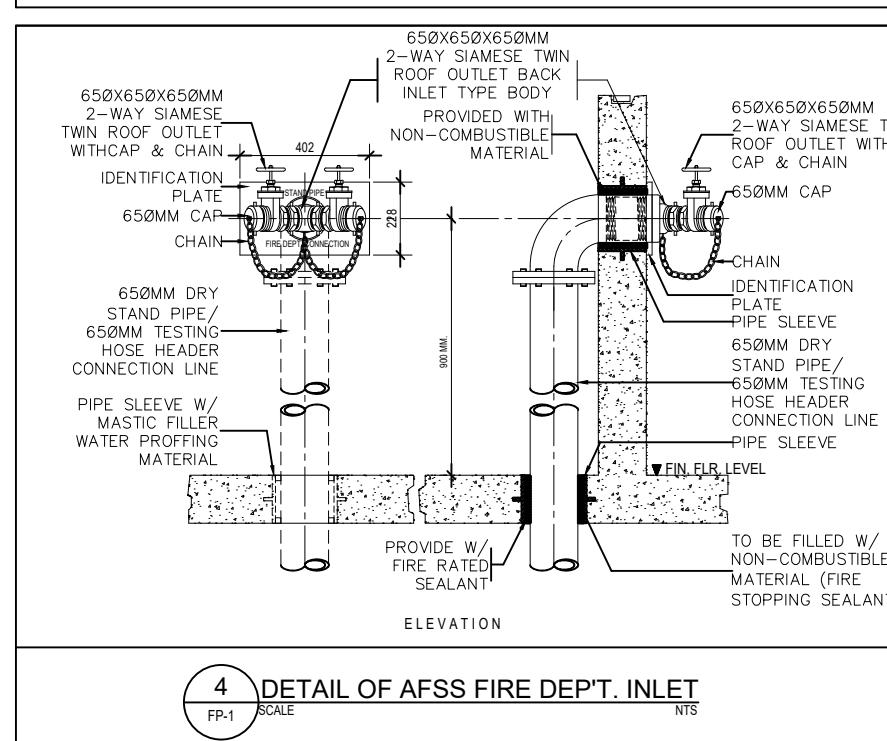
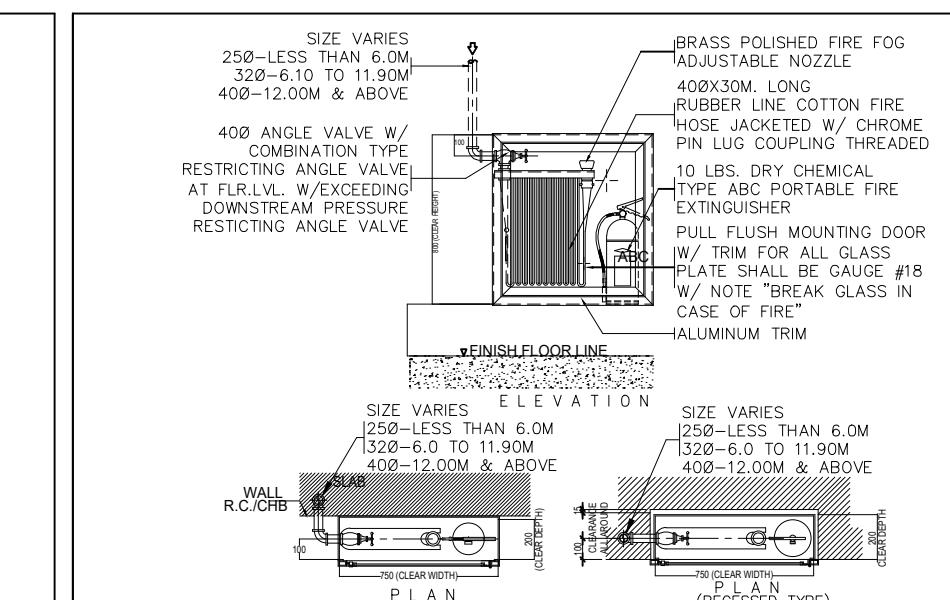
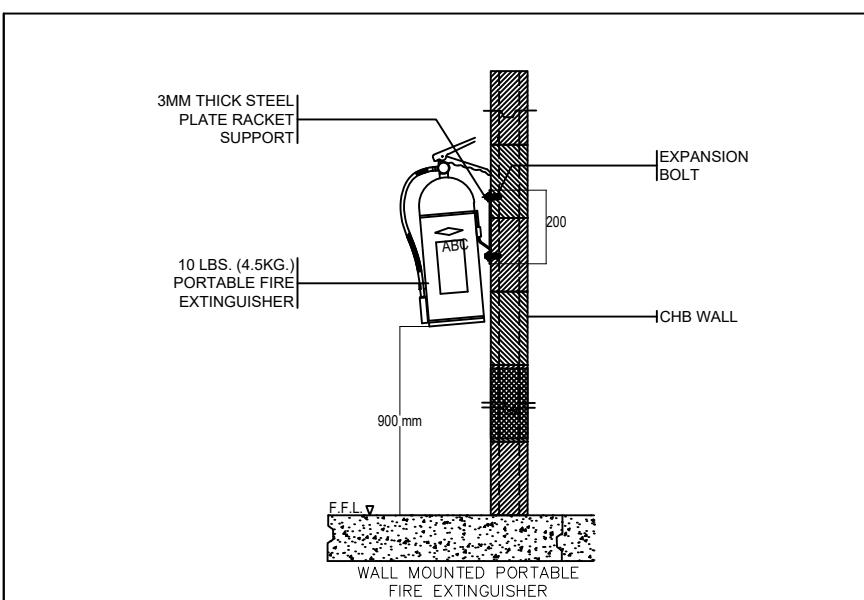
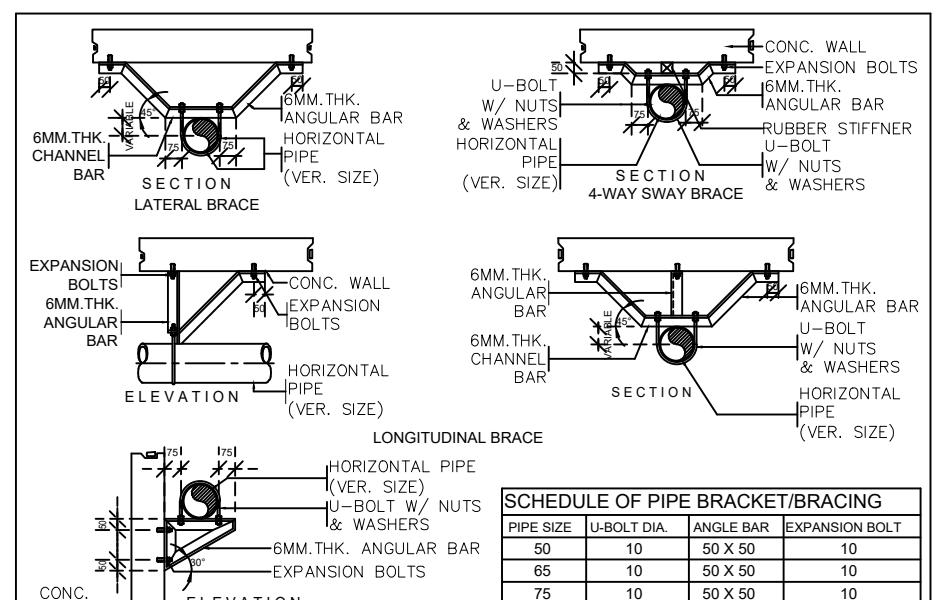
13. IF WELDING PIPES ARE EXPECTED, PIPES SHALL BE SHOPWELD AT THE APPROVED LOCATION THEN MECHANICALLY JOINED BY USING VICTAULIC COUPLINGS AS PER NFPA 13.

14. PROVIDE ONE PORTABLE FIRE EXTINGUISHER @ EVERY 125M² OR EVERY ENCLOSED ROOM.

15. ALL PIPE INSTALLED SHALL BE HYDRO TESTED 1500 ABOVE WORKING PRESSURE OF THE SYSTEM.

16. SPRINKLER HEADS @ KITCHEN AREA IS 200°F (93°C)

AND @ DINNING AREA IS 155°F (68°C)



5 SCHEMATIC DIAGRAM

FROM THE OFFICE OF:

ENGR. MARK ANTHONY S. RUIZO
PROFESSIONAL MECHANICAL ENGINEER
REG. NO.: 000609 PTR. NO.: 040776
DATE: 12-22-2023 DATE: 01-10-2025
EXP. DATE: 12-17-2026 TIN NO.: 316-164-156

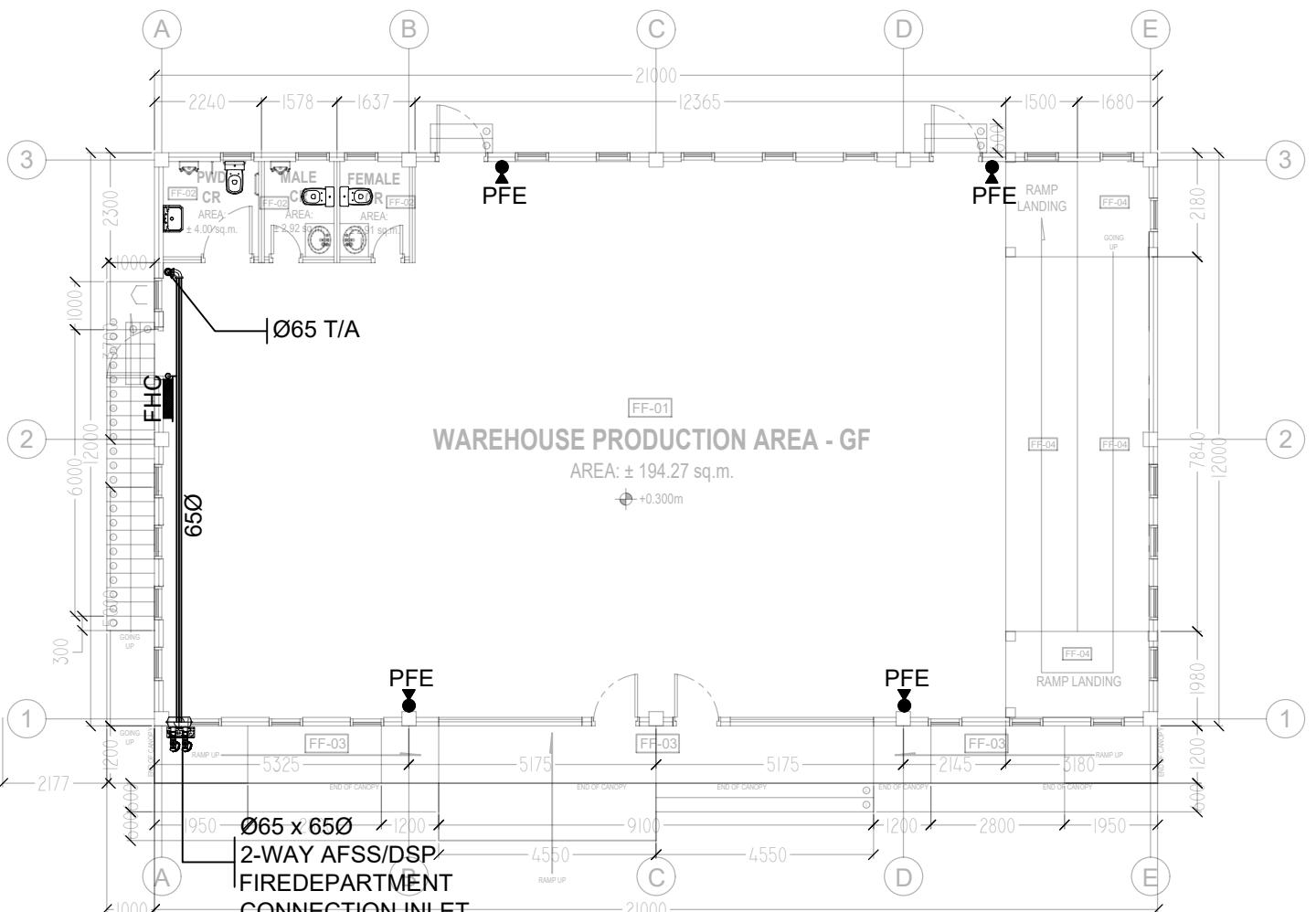
SEAL:

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REPUBLIC ACT 545

PROJECT TITLE:

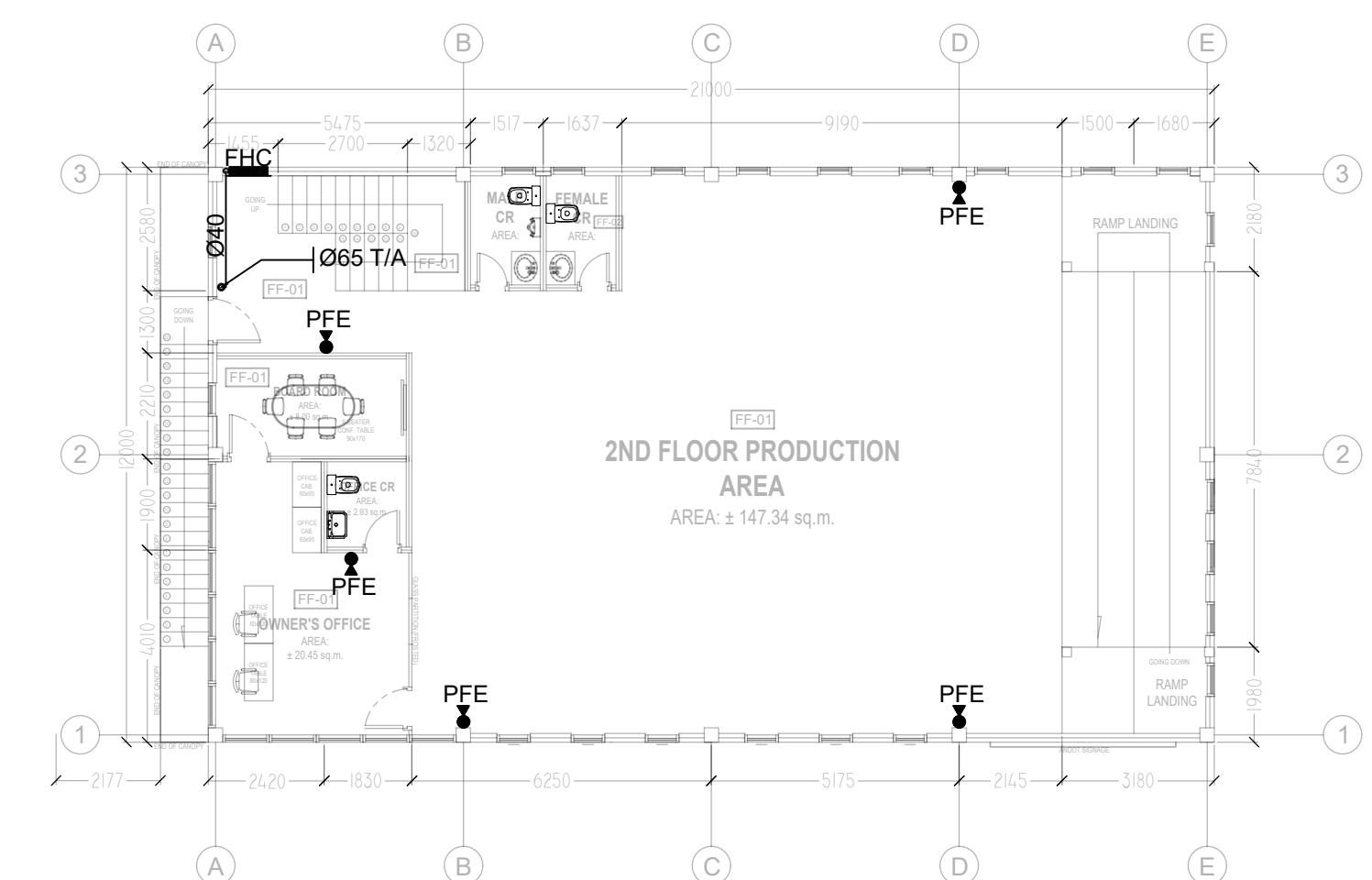
PROPOSED TWO-STORY COMMERCIAL
WAREHOUSE BUILDING WITH ROOF DECK

LOCATION: GUADALUPE, CEBU CITY



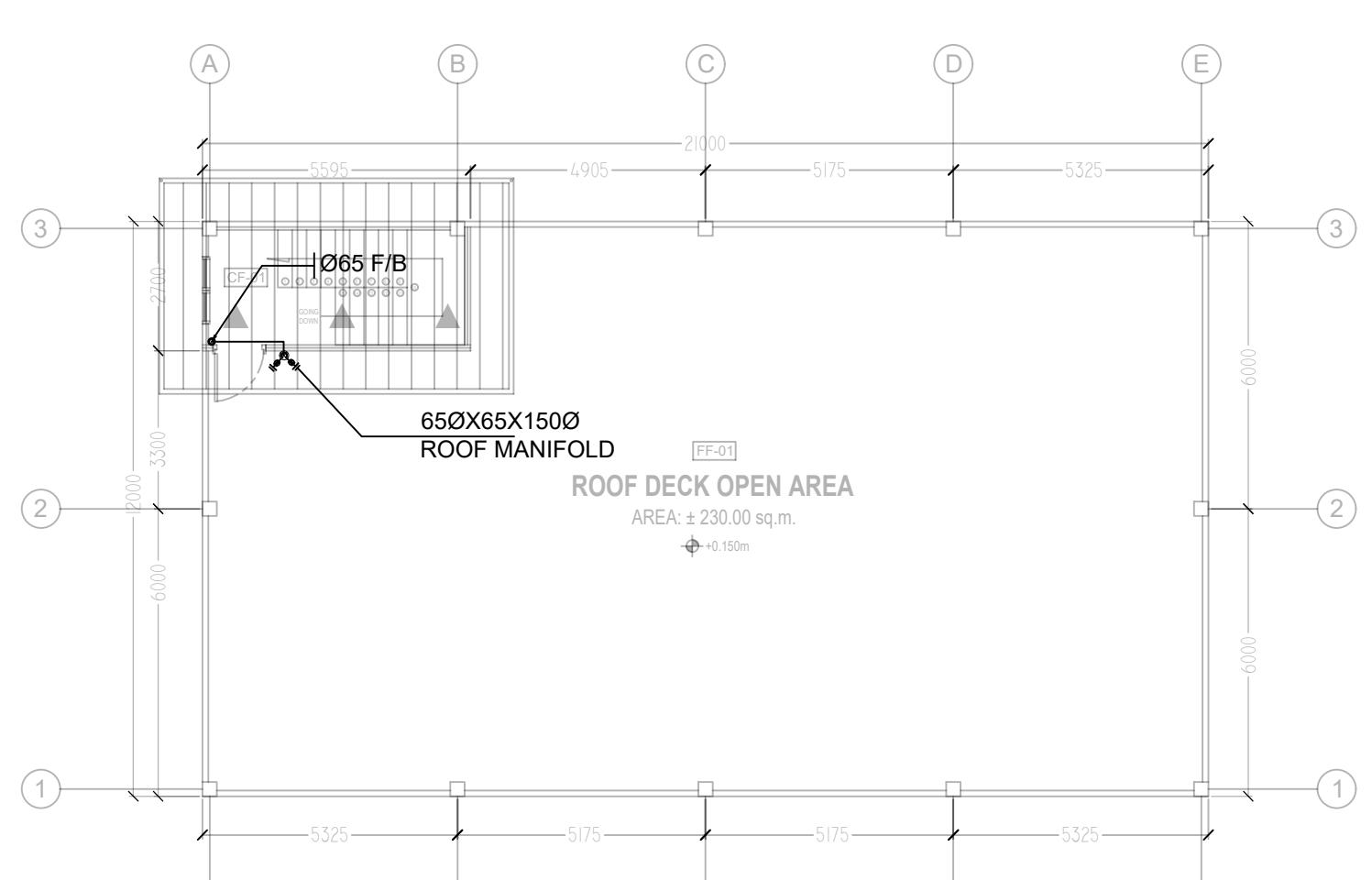
DRY STANDPIPE LAYOUT @ GROUND FLOOR PLAN

1:150 METERS



DRY STANDPIPE LAYOUT @ SECOND FLOOR PLAN

1:150 METERS



DRY STANDPIPE LAYOUT @ ROOF DECK FLOOR PLAN

1:150 METERS

APPROVED BY:
COLOR LAB APPAREL C/O MAR LOUIE ROCA & HANNAH ROCA
OWNER
ADDRESS: GUADALUPE, CEBU CITY

REVISION:

THIS DRAWING IS ISSUED FOR:

BUILDING PERMIT OCCUPANCY PERMIT
 CONSTRUCTION AS-BUILT PLANS

SHEET NO.

M
2

RECOMMENDED ISSUANCE:

HEAD SANITARY SECTION DATE

ISSUED BY:

BUILDING OFFICIAL DATE

THIS IS TO CERTIFY THAT THE SITING OF
THE SEPTIC TANK ARE AS FOLLOWS:

SITING OF SEPTIC TANK (MINIMUM HORIZONTAL DISTANCE)	
FROM BUILDING OR STRUCTURE	1.50 M.
PROPERTY LINE ADJOINING ANOTHER PROPERTY	1.50 M.
WATER SUPPLY WELLS	15.20 M.
STREAMS	15.20 M.
TREES	3.00 M.
SEEPAGE PIT OR CESSPOOLS	1.50 M.
DISPOSAL FIELDS	1.50 M.
ON SITE DOMESTIC WATER SERVICE LINE	1.50 M.
PRESSURE PUBLIC WATER MAIN	3.00 M.

GENERAL SPECIFICATIONS

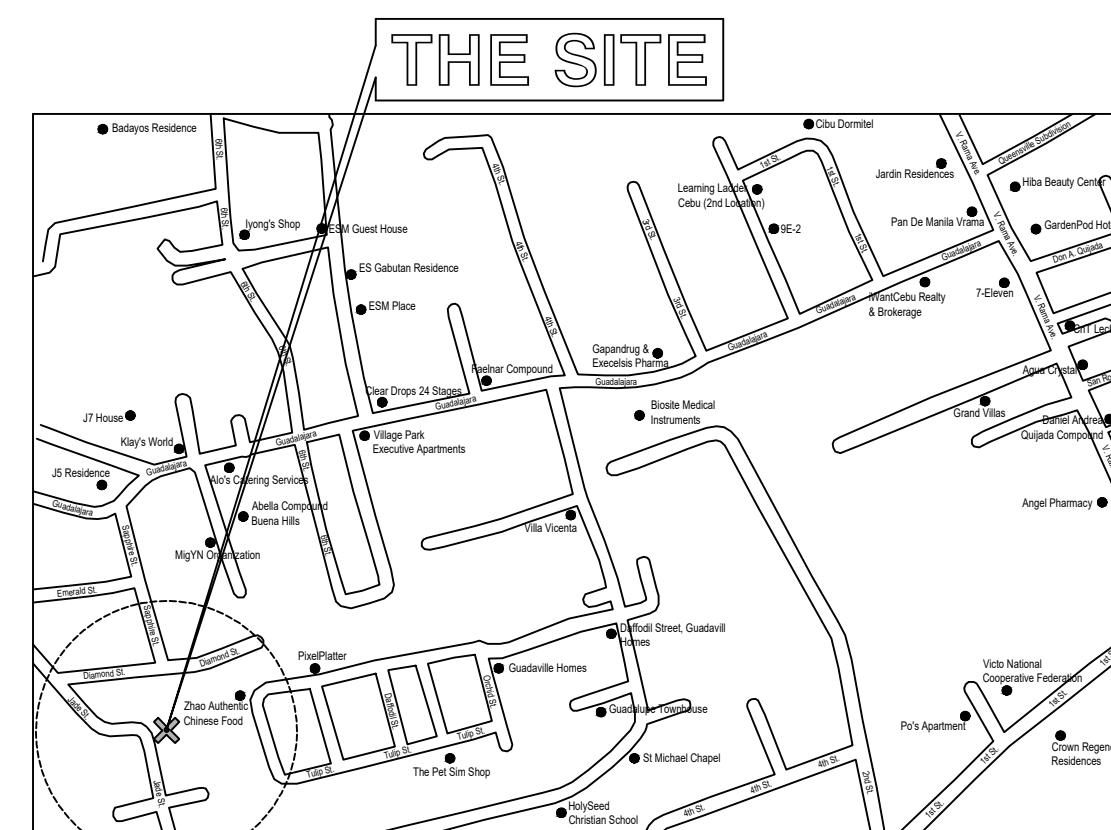
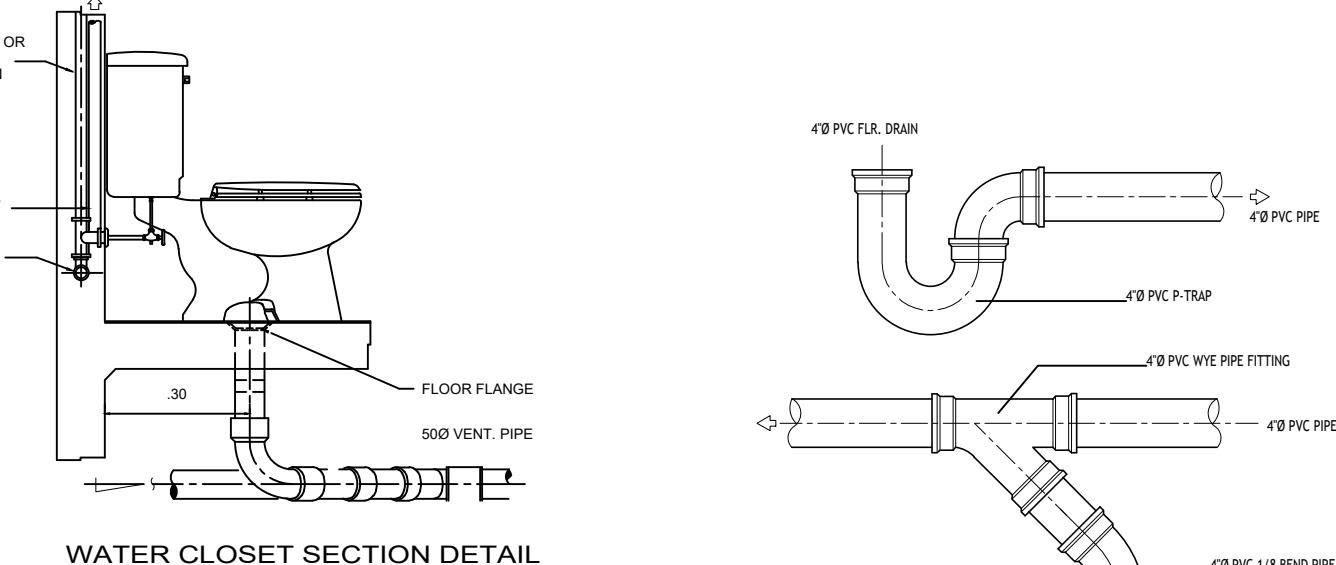
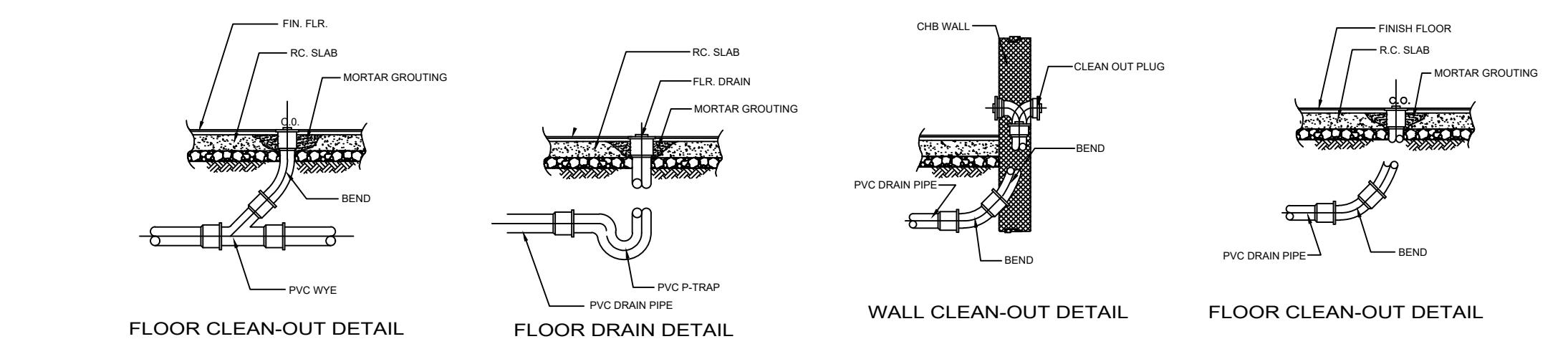
- FOR SANITARY AND VENT PIPES USED FITTINGS OF SERIES 600.
- EXTEND VENT THRU ROOF (VTR) AT LEAST ONE FOOT ABOVE ROOF.
- PROVIDE INDIVIDUAL SHUT-OFF FOR EACH FIXTURES BRANCH AND THE MAIN PIPE.
- ALL PLUMBING INSTALLATION SHALL CONFORM WITH THE LEAST EDITION OF THE NATIONAL PLUMBING CODE; THE NATIONAL BUILDING CODE OF THE PHILIPPINES, RULES AND REGULATIONS.
- ALL PLUMBING WORKS SHALL BE DONE BY COMPETENT PLUMBER UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED MASTER PLUMBER.
- NO ARTESIAN WELL SHALL BE CONSTRUCTED WITHIN A RADIUS OF 15.20MTS. FROM THE PROPOSED SEPTIC TANK.

NOTES

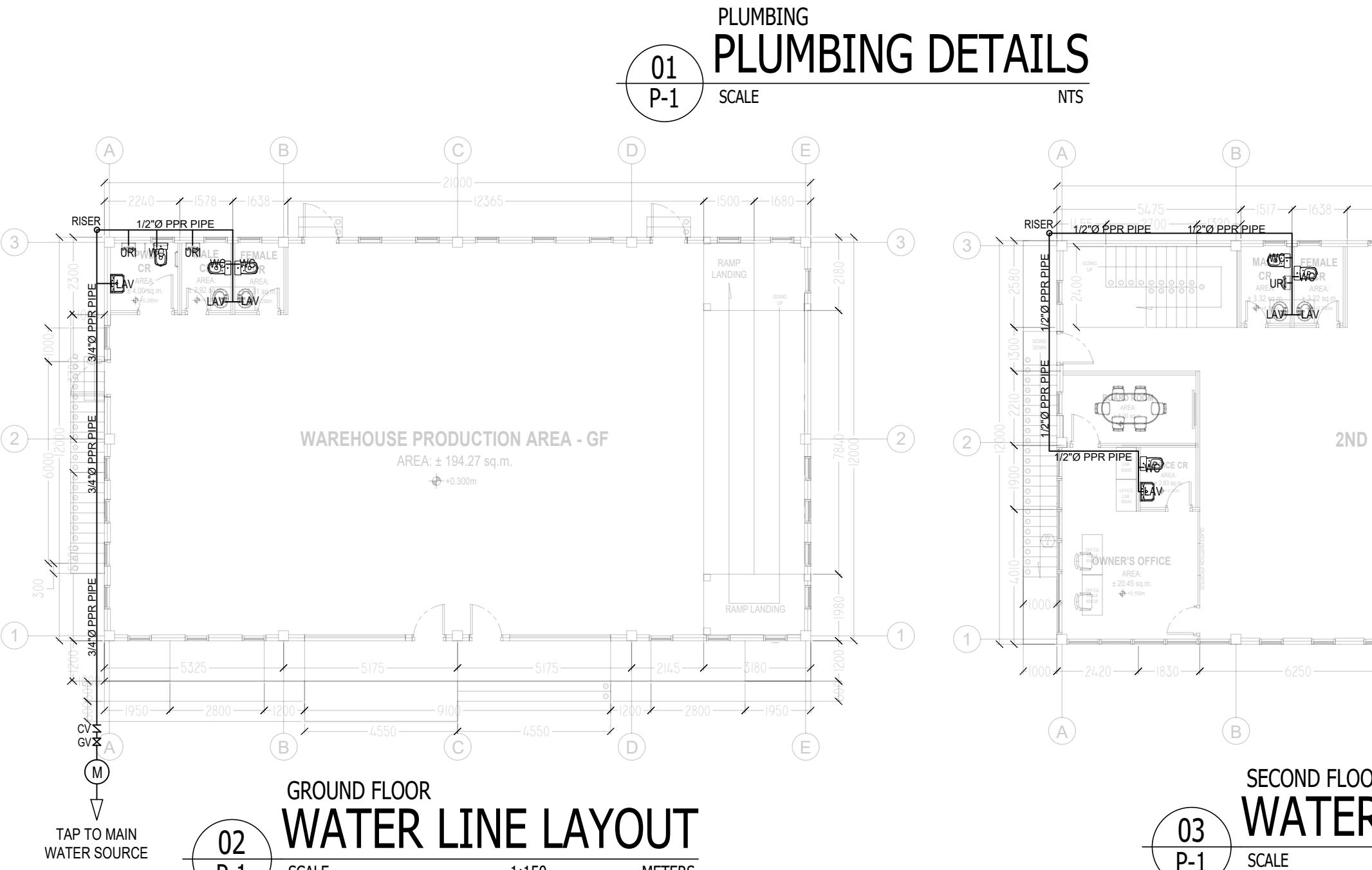
- TANK MUST BE BUILT WATER TIGHT.
- PROVIDE EACH COMPARTMENTS WITH MANHOLES AND TIGHT COVERS FOR CLEANING AND REPAIR.
- INLETS AND OUTLETS ARE SUBMERGED AND ARRANGED THAT NEITHER SLUDGE NOR SCUM ARE DISTURBED.
- INLETS AND OUTLETS ARE SO ARRANGED AS TO DELIVER THE SEWAGE TO THE SEPTIC TANK DEPTH.
- BOTTOM OF THE SEPTIC TANK SHOULD SLOPE 1:10 (MINIMUM SLOPE RATIO) TOWARDS AND ALIGN TO MANHOLE OR CENTER FLOOR OF CHAMBER FOR EASY CLEANING.
- THE AIR SPACE TO BE PROVIDED SHALL NOT BE LESS THAN 0.20M.

ENGR. PAUL JOHN PAME

REGISTERED MASTER PLUMBER

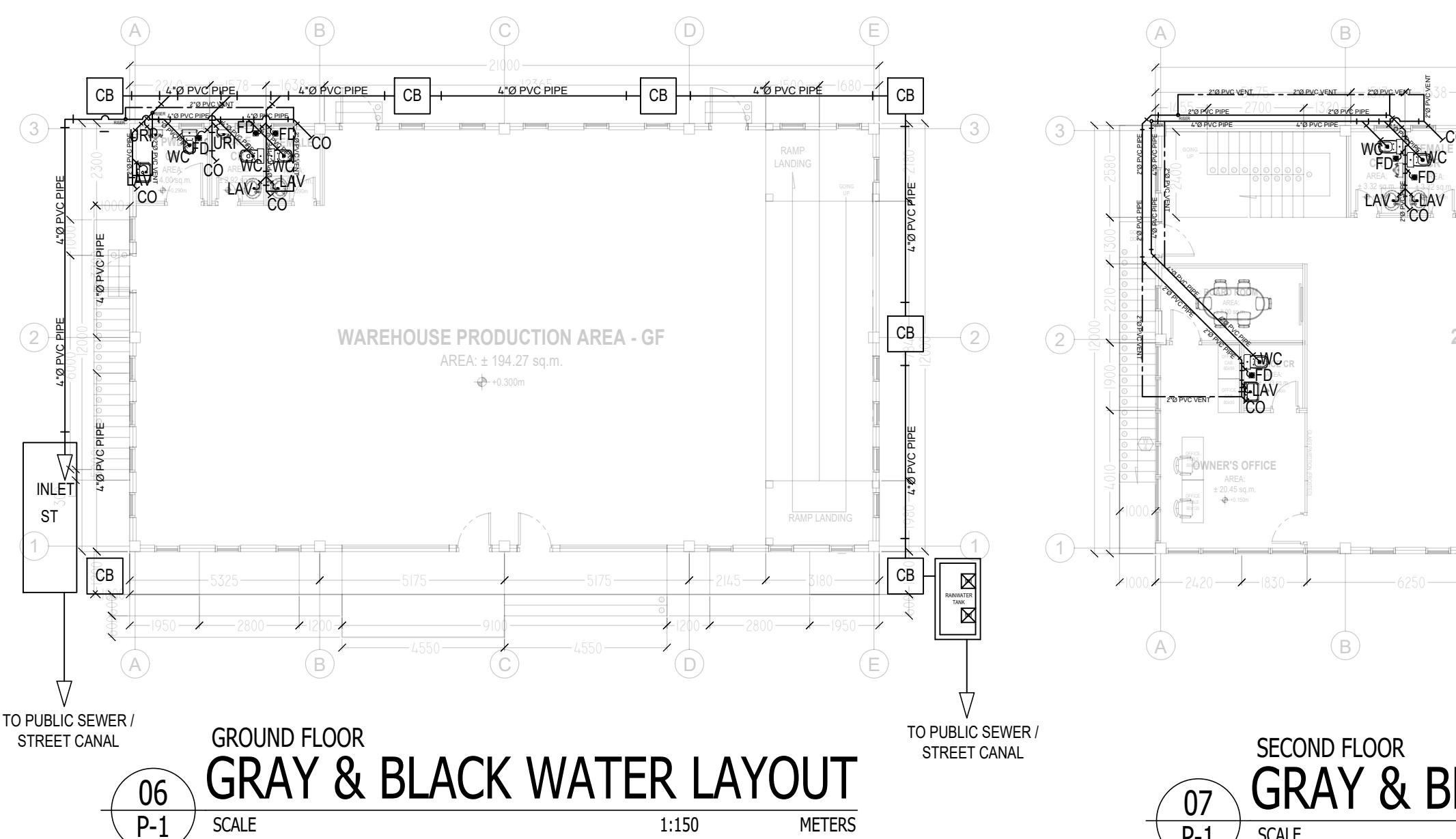


ARCHITECTURAL
VICINITY MAP



GROUND FLOOR
WATER LINE LAYOUT

02 P-1 SCALE 1:150 METERS



GROUND FLOOR
GRAY & BLACK WATER LAYOUT

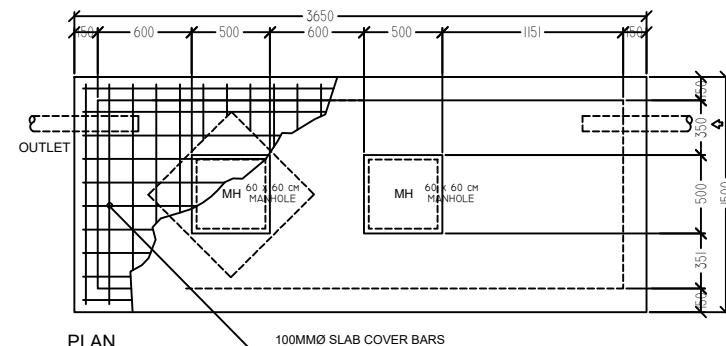
06 P-1 SCALE 1:150 METERS

RECOMMENDED ISSUANCE:

HEAD SANITARY SECTION DATE

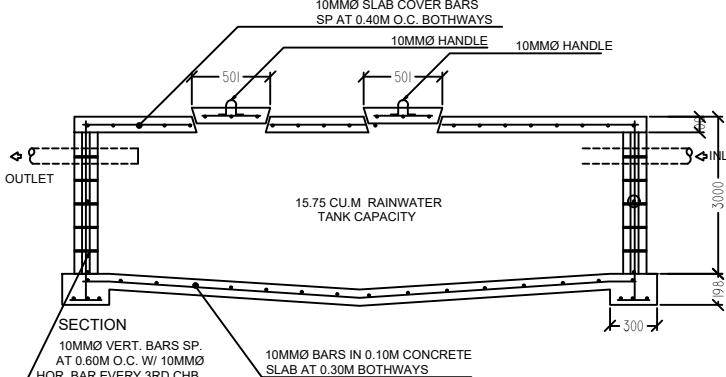
ISSUED BY:

BUILDING OFFICIAL DATE



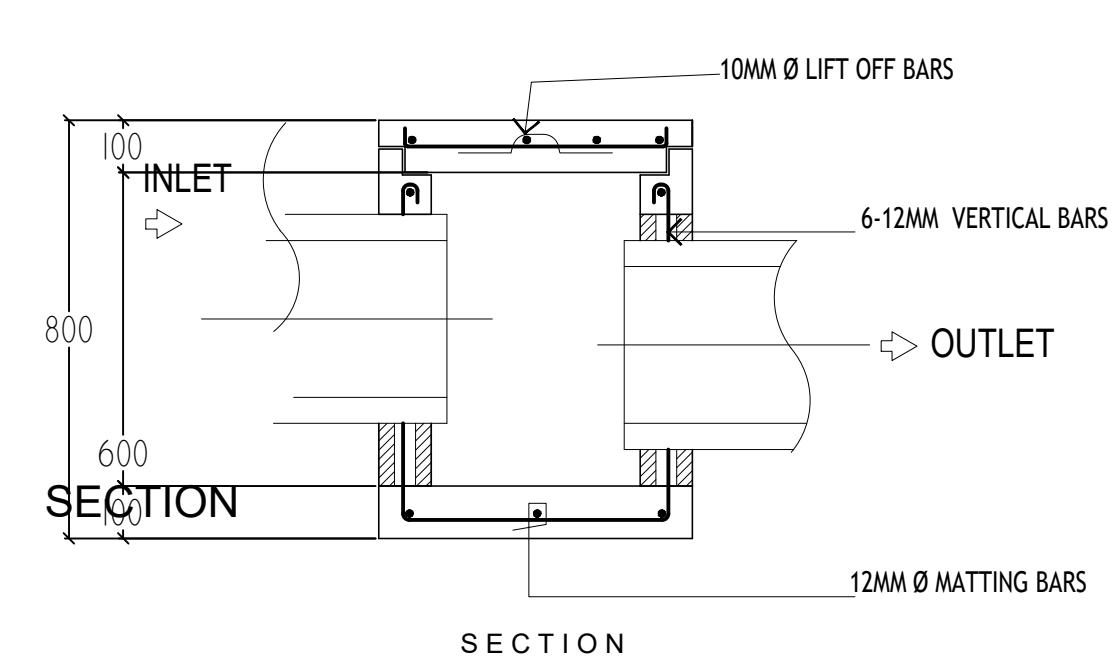
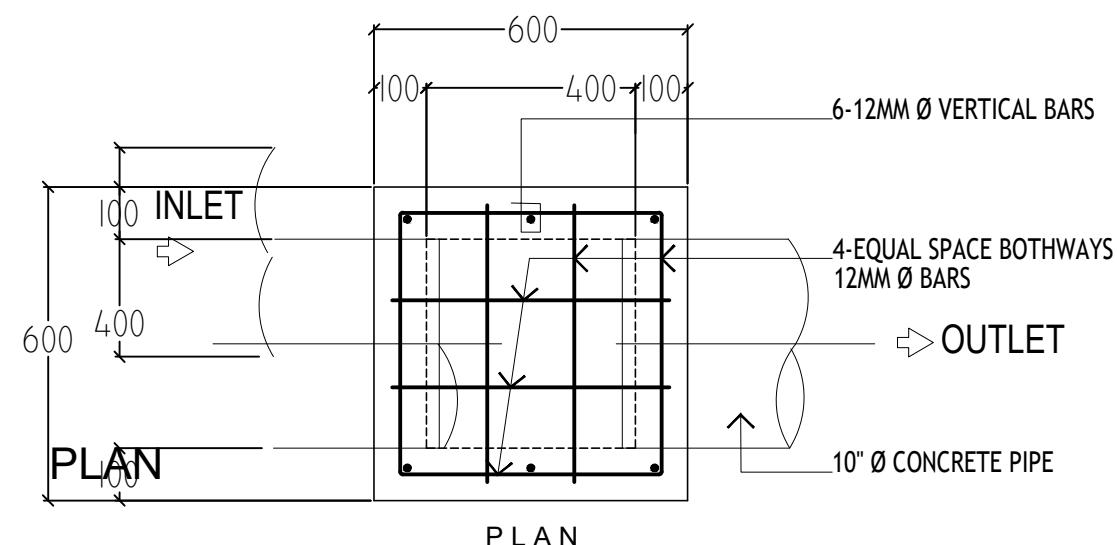
RAINYWATER TANK CAPACITY CALCULATION:

FORMULA:
0.50 CU.M. PER 15 SQ.M. ROOF
230 SQ.M. (ROOF DECK AREA) / 15 SQ.M. = 15.33 CU.M. (MIN. TANK CAPACITY)
RAINWATER TANK DIMENSIONS 3.5m x 1.5m x 3m = 15.75 CU.M.
L x W x H

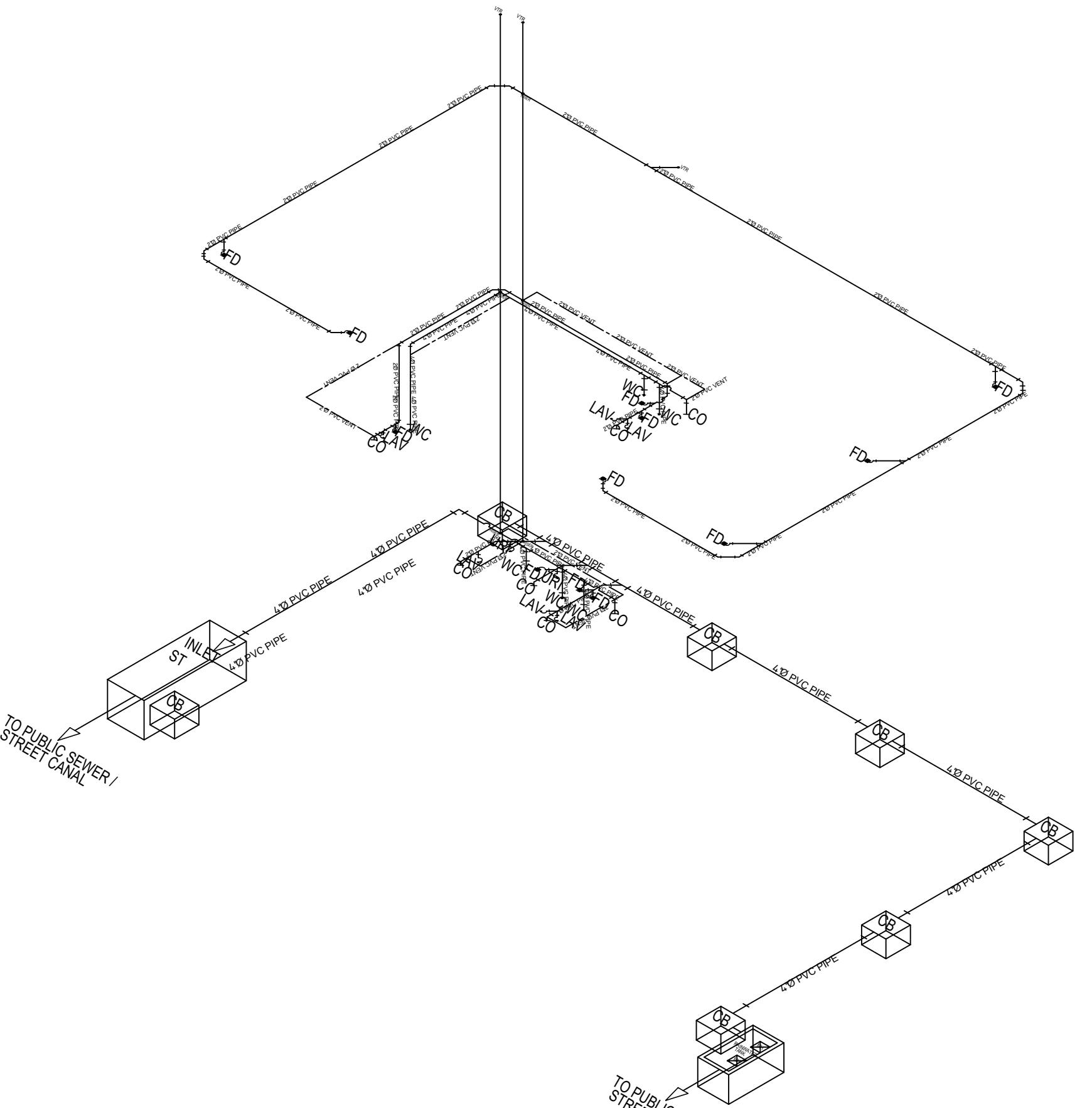


DOWEL BAR
MANHOLE DETAIL
SCALE NTS

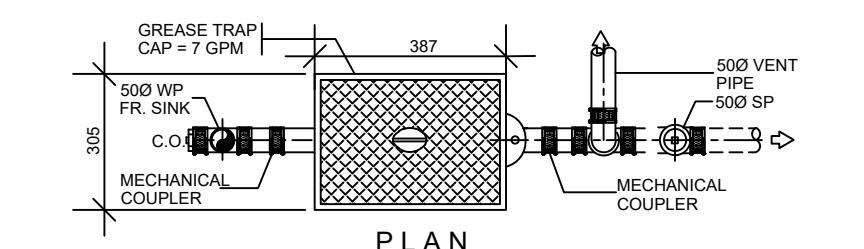
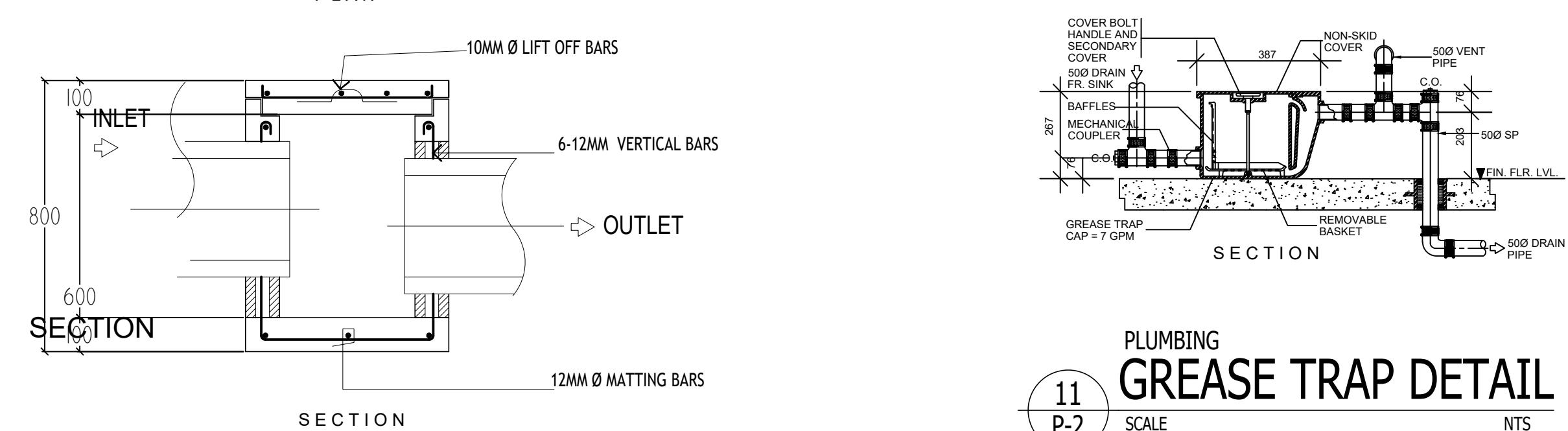
PLUMBING
RAIN WATER TANK
09 P-2 SCALE 1:50 METERS



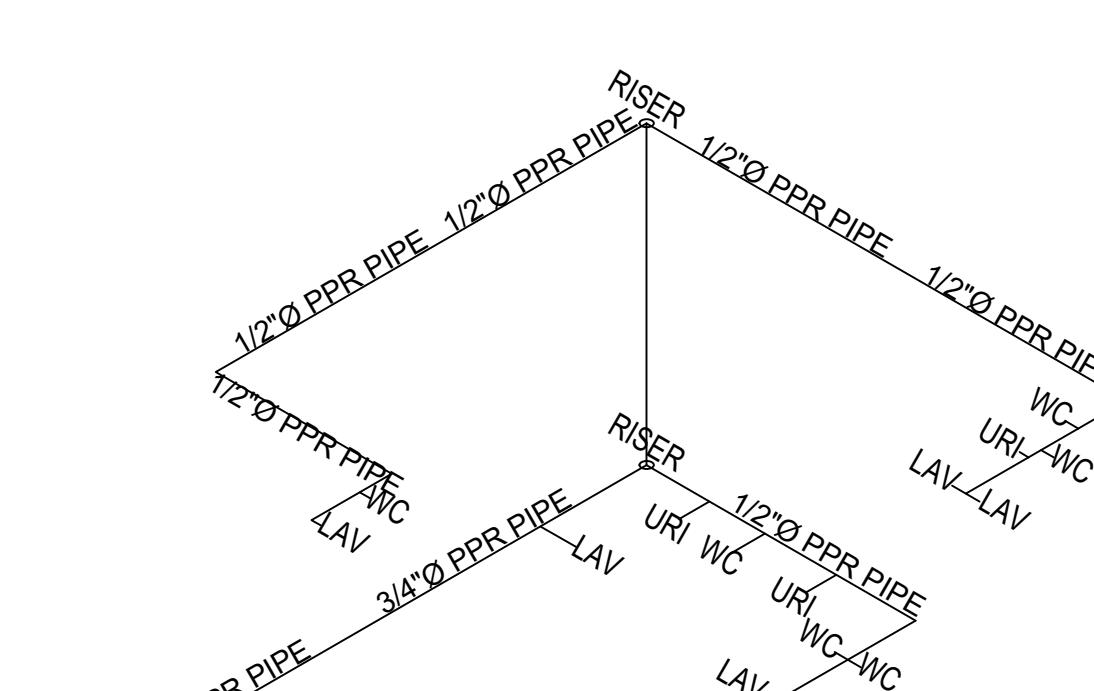
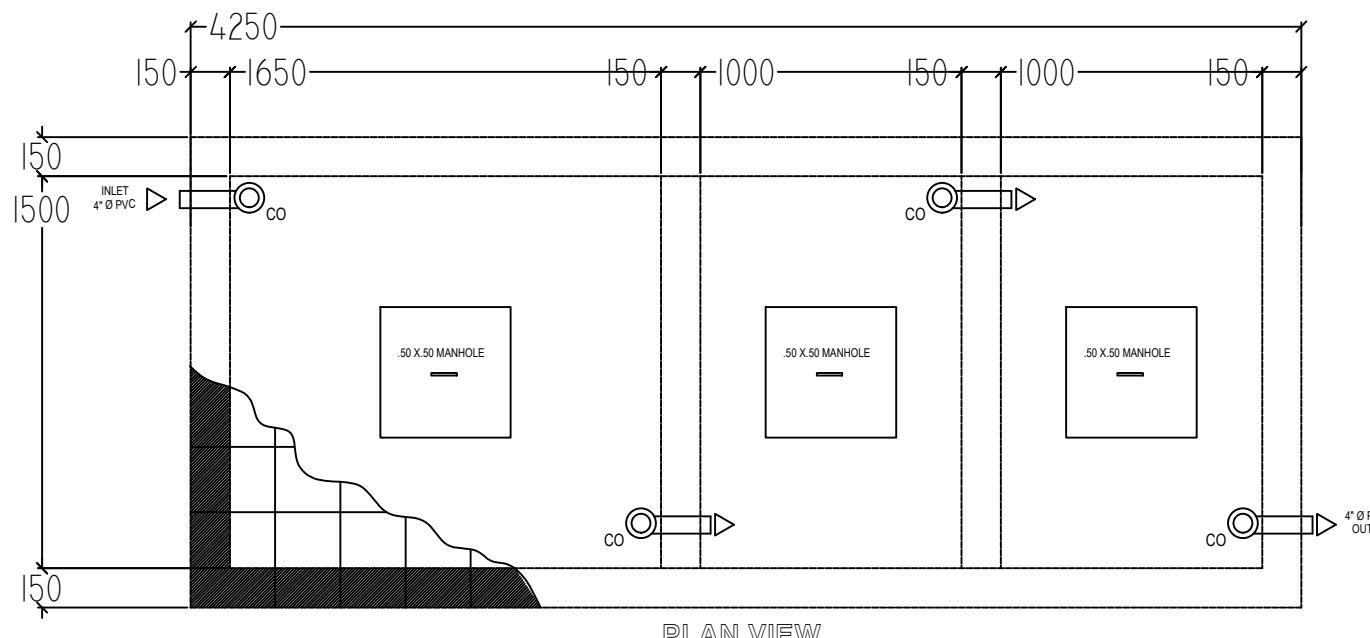
PLUMBING
CATCH BASIN DETAILS
10 P-2 SCALE 1:15 METERS



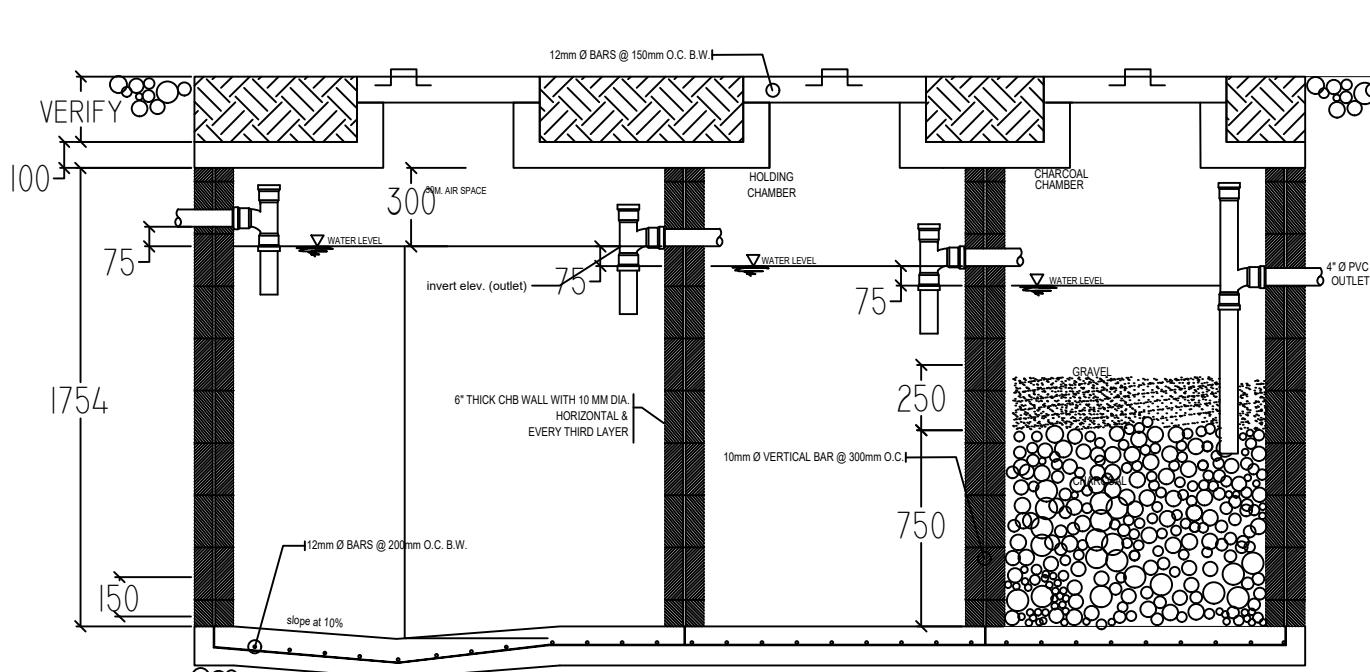
ISOMETRIC
GRAY & BLACK WATER LAYOUT
12 P-2 SCALE NTS



PLUMBING
GREASE TRAP DETAIL
11 P-2 SCALE NTS



ISOMETRIC
WATER LINE LAYOUT
13 P-2 SCALE NTS



PLUMBING
SEPTIC TANK DETAILS
14 P-2 SCALE 1:30 METERS

GENERAL NOTES

A. GENERAL REQUIREMENTS

- ALL STRUCTURAL MATERIALS AND WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP 2015).
- VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS IN CASE OF CONFLICT.
- WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS.
- PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN SLABS, BEAMS, OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY SHOWN. OBTAIN PRIOR WRITTEN APPROVAL FROM THE ENGINEER FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
- LOCATE AND PROTECT UNDERGROUND OR CONCEALED CONDUIT, PLUMBING OR OTHER UTILITIES WHERE NEW WORK IS BEING PERFORMED.
- TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. NEITHER THE OWNER NOR ARCHITECT/ ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE STRUCTURE FOR ALL THE LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION. FURTHER, THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- OBTAIN PRIOR WRITTEN APPROVAL FROM THE ENGINEER IN CASE OF CHANGES TO THE WORKING DRAWINGS.

B. DESIGN CRITERIA

- REFER TO STRUCTURAL DESIGN COMPUTATIONS

C. FOUNDATION

- FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLLED, COMPAKTED STRUCTURAL FILL OR BOTH) AT LEAST 450MM BELOW LOWEST ADJACENT FINISHED GRADE.
- FOOTING IS DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 200 kPa 1.5 METERS TO 2.0 METERS. NOTIFY THE DESIGN ENGINEER IF ACTUAL SOIL CONDITION IS DETERMINED.

- SUB-GRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH THE RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS ENGINEER.

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED AND PRIOR TO CONCRETING TO CONFIRM THE DESIGN FOUNDATION CAPACITY.
- ROOF AND AREA DRAINAGE SHALL BE DIRECTED AWAY FROM THE FOUNDATIONS.

- EXCAVATIONS SHALL BE PROPERLY BACKILLED. BACKFILL FOR WALLS SHALL BE PERVERIOUS MATERIAL ACCEPTABLE TO THE GEOTECHNICAL ENGINEER. DO NOT PLACE BACKFILL BEHIND WALLS BEFORE THEY HAVE ATTAINED THEIR DESIGN STRENGTH. SHORE AND PROTECT WALLS FROM LATERAL LOADS UNTIL THE SUPPORTING MEMBERS ARE IN PLACE AND HAVE DEVELOPED SPECIFIED STRENGTHS. PROVIDE SLOPE PROTECTION AS REQUIRED.

D. REINFORCED CONCRETE

- CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH THE PROVISIONS SET BY THE NSCP 2015.
- ALL REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615 GRADE 40 FOR 12MMØ AND SMALLER BARS WHILE BARS 16MMØ AND LARGER SHALL BE GRADE 60.
- ALL FABRICATION, DETAILING AND PLACING SHALL CONFORM TO THE PROVISIONS SET BY THE NSCP 2010 EDITION.
- CLEAR DISTANCE SPACING BETWEEN PARALLELED BARS IN A LAYER SHALL NOT BE LESS THAN 1.50 TIMES THE NOMINAL DIAMETER OF THE BAR, OR 1.33 TIMES MAX SIZE OF AGGREGATE, OR LESS THAN 38MM(1-1/2").

- ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS WITH CORRESPONDING MAXIMUM SLUMP AND MAXIMUM SIZE AGGREGATE AS FOLLOWS:

LOCATION	CONCRETE 28 DAYS STRENGTH	MAXIMUM SIZE AGGREGATE	MAXIMUM SLUMP
CURBS, & SLAB ON FILL OR SLAB ON GRADES	3500 PSI	1.0 IN. (25mm)	4 IN. (100mm)
FOUNDATION, PEDESTALS, & TIE BEAMS	3500 PSI	3/4 IN. (19mm)	4 IN. (100mm)
SUSPENDED SLABS	3500 PSI	3/4 IN. (19mm)	4 IN. (100mm)

- Maintain minimum concrete cover for reinforcing steel as follows:

FOOTINGS (CAST AGAINST & EXPOSED TO EARTH)	75MM (3")
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS	50MM (2")
SLAB ON GRADE	40MM (1-1/2")
COLUMN TIES OR SPIRALS AND BEAM STIRRUPS	40MM (1-1/2")
SUSPENDED SLABS	20MM (3/4")

- Splices shall be securely wired together and shall lap at least 40 times diameter or 600mm whichever is greater. stagger bottom at least 1.50m from splices in other bottom reinforcement. stagger splices for top reinforcement similarly.

- All anchor bolts, dowels, and other inserts shall be properly position and secured in place prior to placing of concrete.

- All concrete shall be kept moist for a minimum of 7 consecutive days immediately after pouring by the use of curing compounds, or other approved methods.

- Stripping of forms and shores:

FOUNDATION, & GRADE BEAMS OR FOOTING TIE BEAMS	24 HRS
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALLS	18 HRS
GIRDERS/ BEAMS	14 DAYS

E. CAMBER REQUIREMENTS

- Unless otherwise noted on the plans or specifications camber all slabs 8mm per 300mm of shorter span and 14mm for every 2000mm of slabs cantilever span.

H. STRUCTURAL STEEL

- All structural steels such as angles, wide flange sections, pipes, stiffener plates, base plates, etc. shall be ASTM A-36 atleast.
- All structural steel shall be detailed, fabricated and erected based on the specification for design, fabrication, and erection of structural steel given by the national structural code of the Philippines (NSCP).
- Connection bolts (1.0 in.) round, unless shown otherwise) shall conform to ASTM - A325. Anchor bolts (embedded in masonry or concrete) shall conform to ASTM - A307, unless noted otherwise on the drawings.
- All structural steel shall be clean, rust free and shop coated with the appropriate paint. Structural steel and anchor bolts shall be minimum ASTM-A-36 DOMESTIC, LATEST REVISION.
- Non - shrink grout - pre-mixed, non-metallic, cement-based grout, meeting the requirement of ASTM C827, ASTM C109 & CRD-C621, with a minimum compressive strength of 7000psi at 28 days.
- Provide miscellaneous plates, angles and anchors as shown or noted on drawings.
- All cutting and blocking of steel shall be shown on shop drawings and performed in shop.
- Provide temporary bracing as required for a safe structure until all final connections are made.

- Unless noted, fillet weld sizes should not be lesser than what is shown in the table below:

MINIMUM SIZE OF FILLET WELDS	
MATERIAL THICKNESS OF THINNER PART JOINED, in. (mm)	MINIMUM SIZE OF FILLET WELDS ^a (mm)
To $\frac{1}{4}$ " (6) inclusive	$\frac{1}{8}$ " (3)
Over $\frac{1}{4}$ " (6) to $\frac{1}{2}$ " (13)	$\frac{3}{16}$ " (5)
Over $\frac{1}{2}$ " (13) to $\frac{3}{4}$ " (19)	$\frac{1}{4}$ " (6)
Over $\frac{3}{4}$ " (19)	$\frac{5}{16}$ " (8)

- Unless noted, effective throat of partial joint penetration groove welds should not be lesser than what is shown below:

MINIMUM EFFECTIVE THROAT OF PARTIAL-JOINT-PENETRATION GROOVE WELDS	
MATERIAL THICKNESS OF THINNER PART JOINED, in. (mm)	MINIMUM EFFECTIVE THROAT ^b (mm)
To $\frac{1}{4}$ " (6) inclusive	$\frac{1}{8}$ " (3)
Over $\frac{1}{4}$ " (6) to $\frac{1}{2}$ " (13)	$\frac{3}{16}$ " (5)
Over $\frac{1}{2}$ " (13) to $\frac{3}{4}$ " (19)	$\frac{1}{4}$ " (6)
Over $\frac{3}{4}$ " (19) to $\frac{1}{2}$ " (38)	$\frac{5}{16}$ " (8)
Over $\frac{1}{2}$ " (38) to $\frac{2}{3}$ " (57)	$\frac{3}{8}$ " (10)
Over $\frac{2}{3}$ " (57) to 6" (150)	$\frac{1}{2}$ " (13)
Over 6" (150)	$\frac{5}{16}$ " (16)

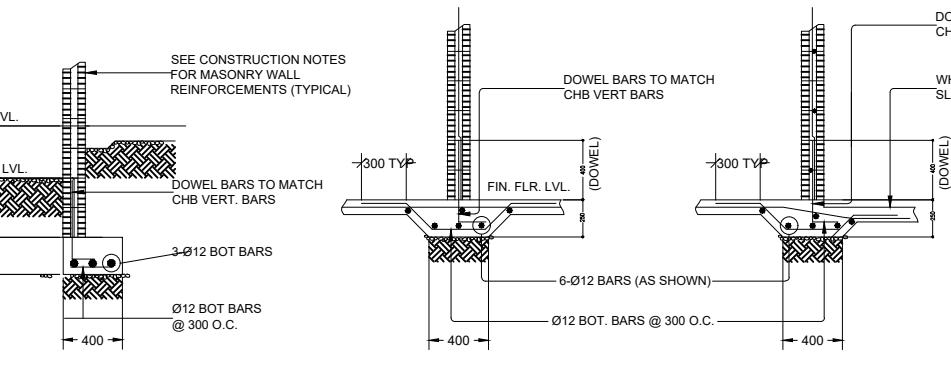
- Unless noted, nominal bolt hole dimensions should be based on the table below:

NOMINAL BOLT DIAMETER, d	NOMINAL BOLT HOLE DIMENSIONS ^{a,b} , in.			
	STANDARD (diameter)	OVERSIZE (diameter)	SHORT-SLOTTED (width x length)	LONG-SLOTTED (width x length)
$\frac{1}{2}$ "	$\frac{9}{16}$ "	$\frac{5}{8}$ "	$\frac{9}{16}'' \times \frac{11}{16}''$	$\frac{9}{16}'' \times \frac{1}{4}''$
$\frac{5}{8}$ "	$\frac{11}{16}$ "	$\frac{13}{16}$ "	$\frac{11}{16}'' \times \frac{7}{8}''$	$\frac{11}{16}'' \times 1\frac{9}{16}''$
$\frac{3}{4}$ "	$\frac{13}{16}$ "	$\frac{15}{16}$ "	$\frac{13}{16}'' \times 1''$	$\frac{13}{16}'' \times \frac{1}{8}''$
$\frac{7}{8}$ "	$\frac{15}{16}$ "	$\frac{11}{8}$ "	$\frac{15}{16}'' \times \frac{11}{16}''$	$\frac{15}{16}'' \times 2\frac{3}{16}''$
1"	$1\frac{1}{16}$ "	$1\frac{1}{4}$ "	$1\frac{1}{16}'' \times \frac{15}{16}''$	$1\frac{1}{16}'' \times 2\frac{1}{2}''$
$\geq 1\frac{1}{8}$ "	$d_b + \frac{1}{16}$ "	$d_b + \frac{5}{16}$ "	$(d_b + \frac{1}{16})(d + \frac{3}{8})$	$(d_b + \frac{1}{16})(2.5d_b)$

a The upper tolerance on the tabulated nominal dimensions shall not exceed $\frac{1}{32}$ in. Exception: In the width of slotted holes, gouges not more than $\frac{1}{16}$ in. deep are permitted.

b The slightly conical hole that naturally results from punching operations with properly matched punches and dies is acceptable.

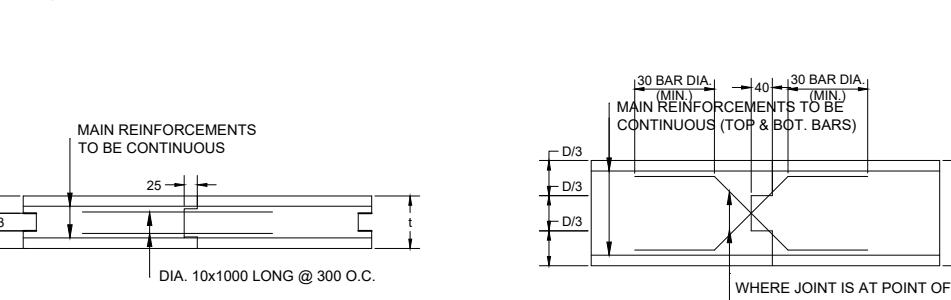
- BOLTS ARE INSTALLED IN ONE FOUR TYPES OF HOLES (SEE TABLE ABOVE)
- STANDARD HOLES CAN BE USED ANYWHERE
- OVERSIZE HOLES MAY ONLY BE USED IN SLIP CRITICAL CONNECTIONS
- SHORT-SLOTTED HOLES ARE USED WITH THE SLOT PERPENDICULAR TO THE DIRECTION OF STRESS
- LONG-SLOTTED HOLES ARE PRIMARILY USED WHEN CONNECTING TO EXISTING STRUCTURES



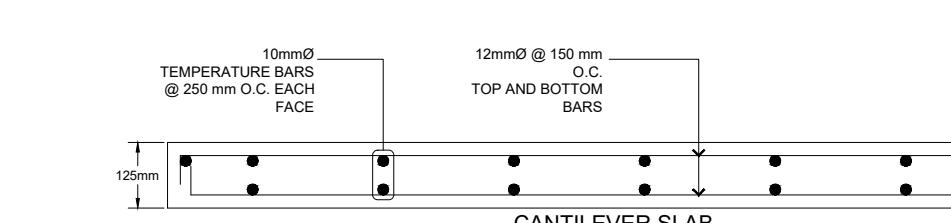
01 S 1 TYPICAL CHB FOOTING DETAILS (WHERE APPLICABLE)
NOT TO SCALE



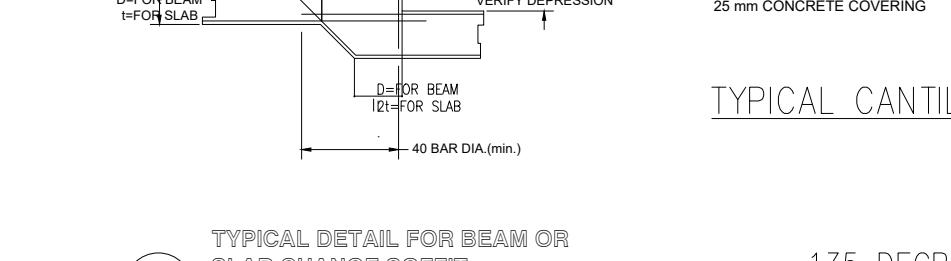
02 S 1 TYPICAL CORNER SLAB DETAIL
NOT TO SCALE



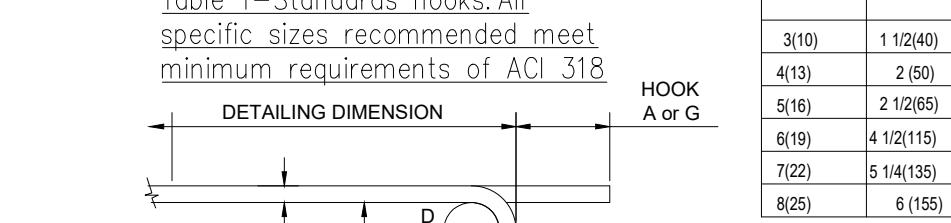
03 S 1 TYPICAL SLAB OPENING DETAIL
NOT TO SCALE



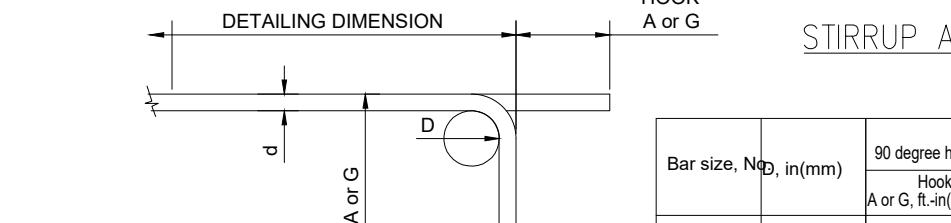
04 S 1 TYPICAL SLAB & BEAM CONNECTION DETAIL
NOT TO SCALE



05 S 1 TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SLOPES
NOT TO SCALE



135 DEGREE SEISMIC STIRRUP / TIE HOOK DIMENSIONS ALL GRADES



135 DEGREE HOOK



135 DEGREE HOOK

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL
CEBU CITY
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HEAD STRUCTURAL SECTION DATE
ISSUED BY:
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OTHER STRUCTURAL NOTES

- If the contractor opted to use pre-cast walls for non-structural wall (exterior & interior), all embeds & other required accessories for proper connection and sealant in between gaps (both sides) must be for the contractor's account.
- The contractors must submit shop drawings (including calculations) showing all connection details & wall reinforcements for structural engineer's approval. All corrections made by the structural engineer must not constitute a change order.

IMPORTANT NOTES

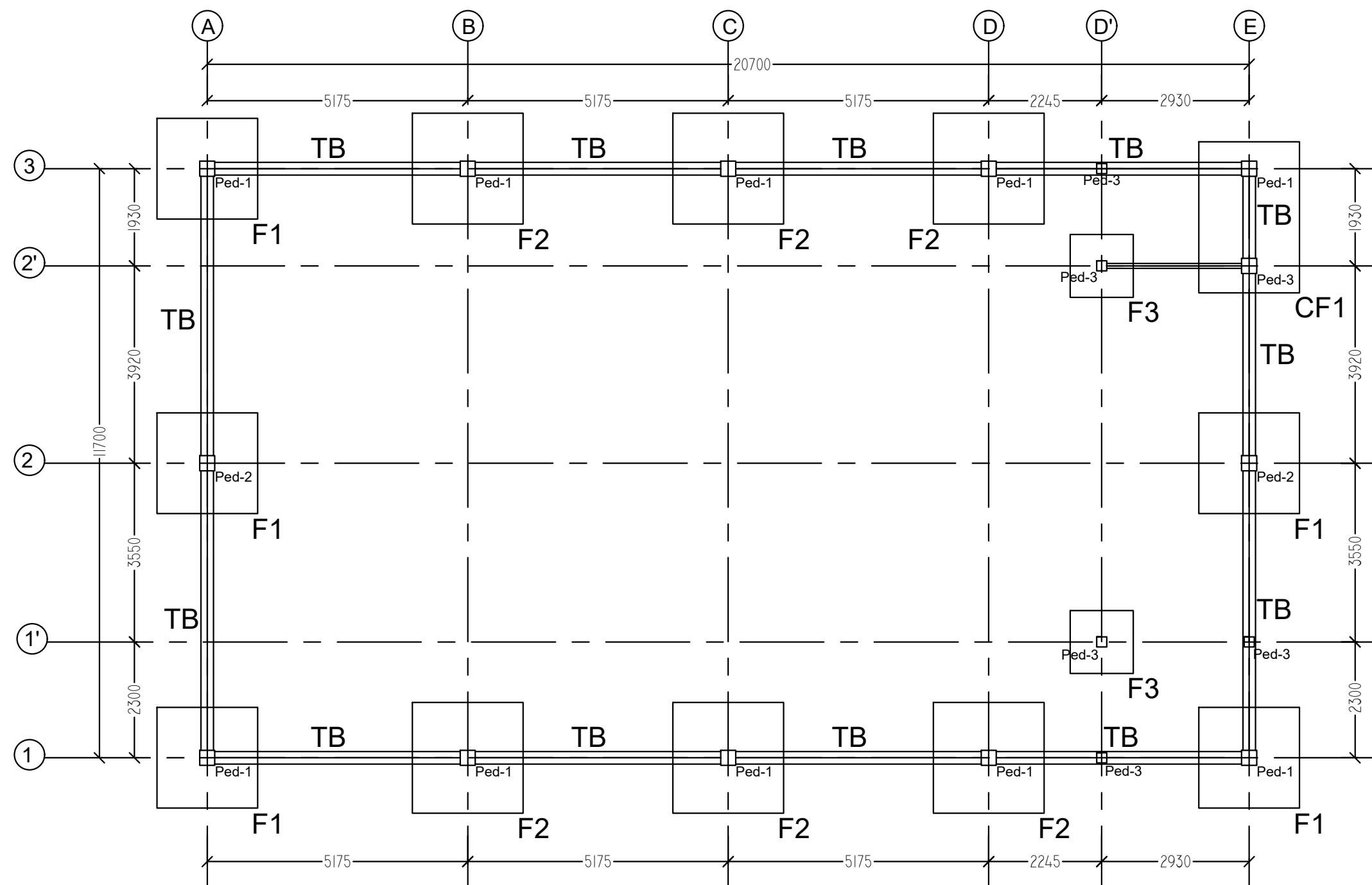
- If the details shown on this standard sheets are followed, no approval from ob engineering services is required

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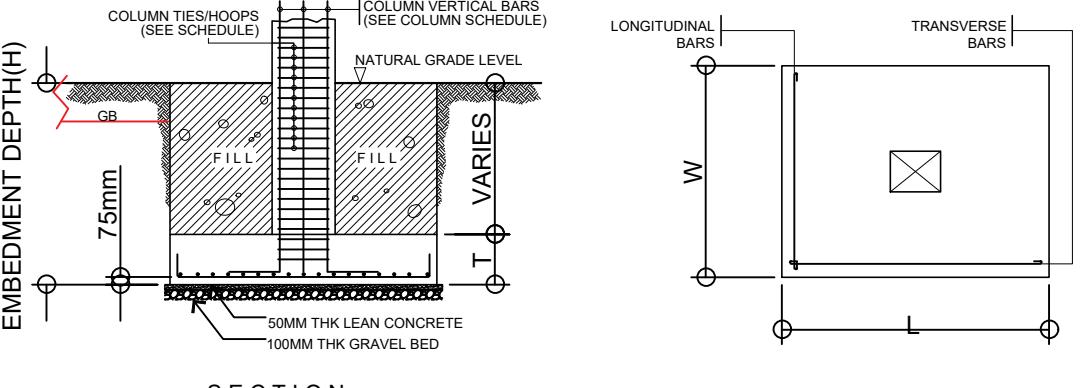


STRUCTURAL FOUNDATION PLAN

06

S-2

SCALE 1:100 METERS

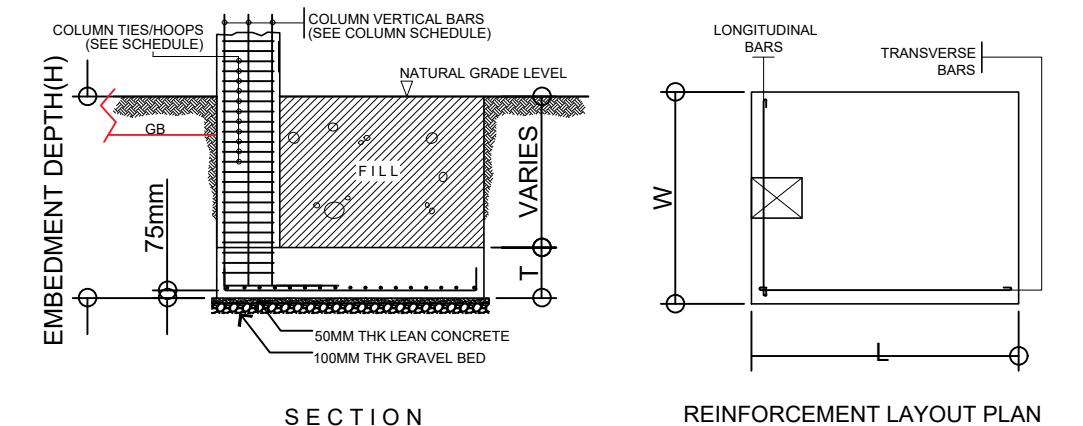


TYPICAL ISOLATED FOOTING

07

S-2

SCALE NTS



TYPICAL ECCENTRIC FOOTING

08

S-2

SCALE NTS

SCHEDULE OF REINFORCED CONCRETE FOOTINGS									
MARK	DIMENSION			TOP BARS		BOTTOM BARS		DEPTH OF EXCAVATION (mm)	REMARKS
	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)	REINFORCEMENT BAR ALONG X-DIRECTION & Y-DIRECTION	REINFORCEMENT BAR ALONG X-DIRECTION & Y-DIRECTION	16mmØ@300mm	16mmØ@300mm		
FOOTING F1	2000	2000	350	16mmØ@300mm	16mmØ@300mm	16mmØ@300mm	16mmØ@300mm	1500	-
FOOTING F1	2200	2200	375			16mmØ@200mm	16mmØ@200mm	1500	-
FOOTING F2	1500	1500	300			12mmØ@200mm	12mmØ@200mm	1500	-

ASSUMED ALLOWABLE BEARING PRESSURE OF SOIL = 200kPa

STRUCTURAL FOOTING SCHEDULE

09

S-2

SCALE NTS

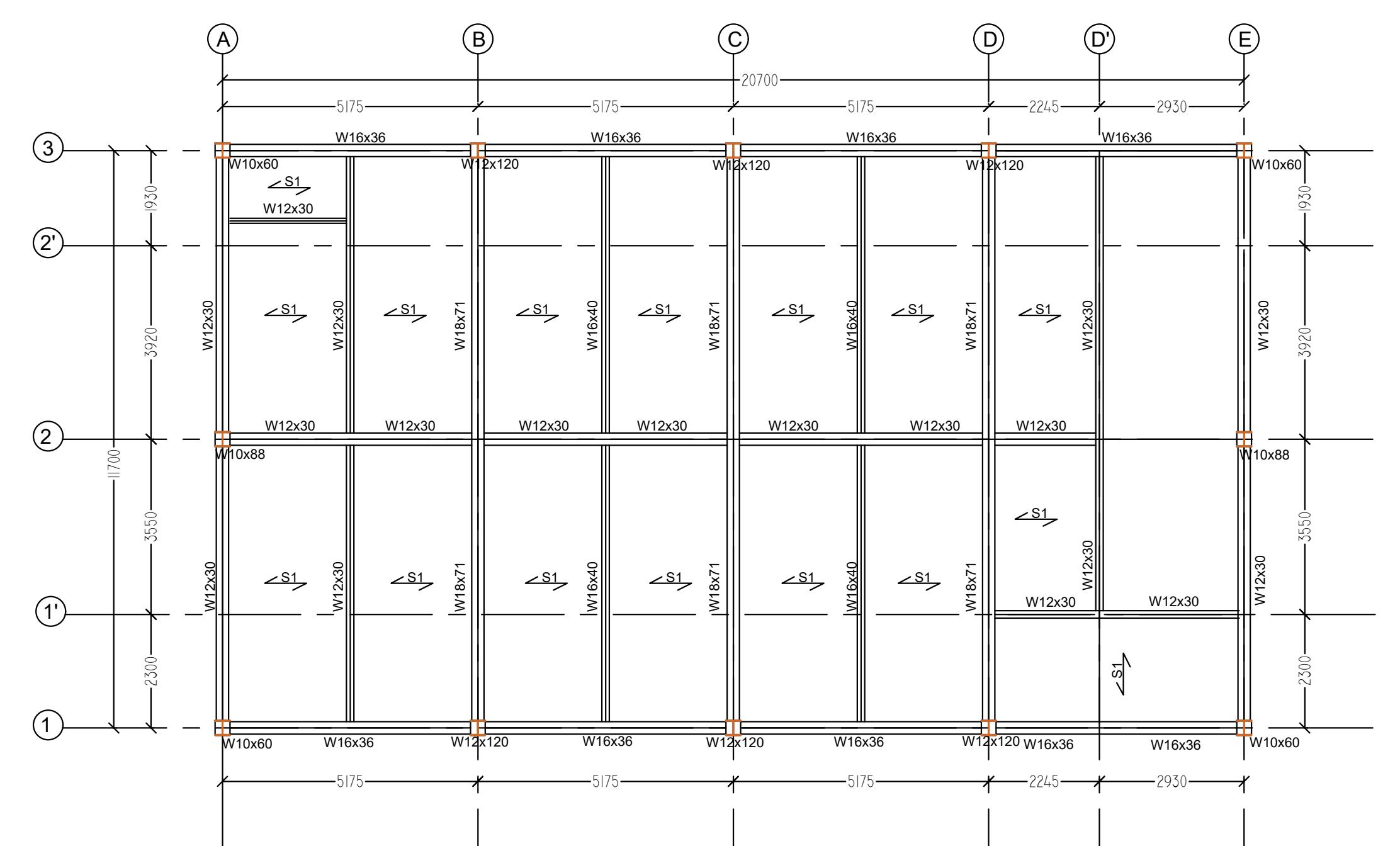
SCHEDULE OF REINFORCED CONCRETE TIE BEAMS								
LABEL	DIMENSION		LOCATION	LEFT SUPPORT	MIDSPAN	RIGHT SUPPORT	STIFF. BARS	10mmØ CLOSED STIRRUPS
	b (mm)	h (mm)						
TB	300	400	TOP	2 - 16mmØ	2 - 16mmØ	2 - 16mmØ	2 - 10mmØ	1st @ 50mm, 5@100mm, rest @ 150mm
			BOTTOM	2 - 16mmØ	2 - 16mmØ	2 - 16mmØ		

STRUCTURAL TIE BEAM SCHEDULE

10

S-2

SCALE NTS



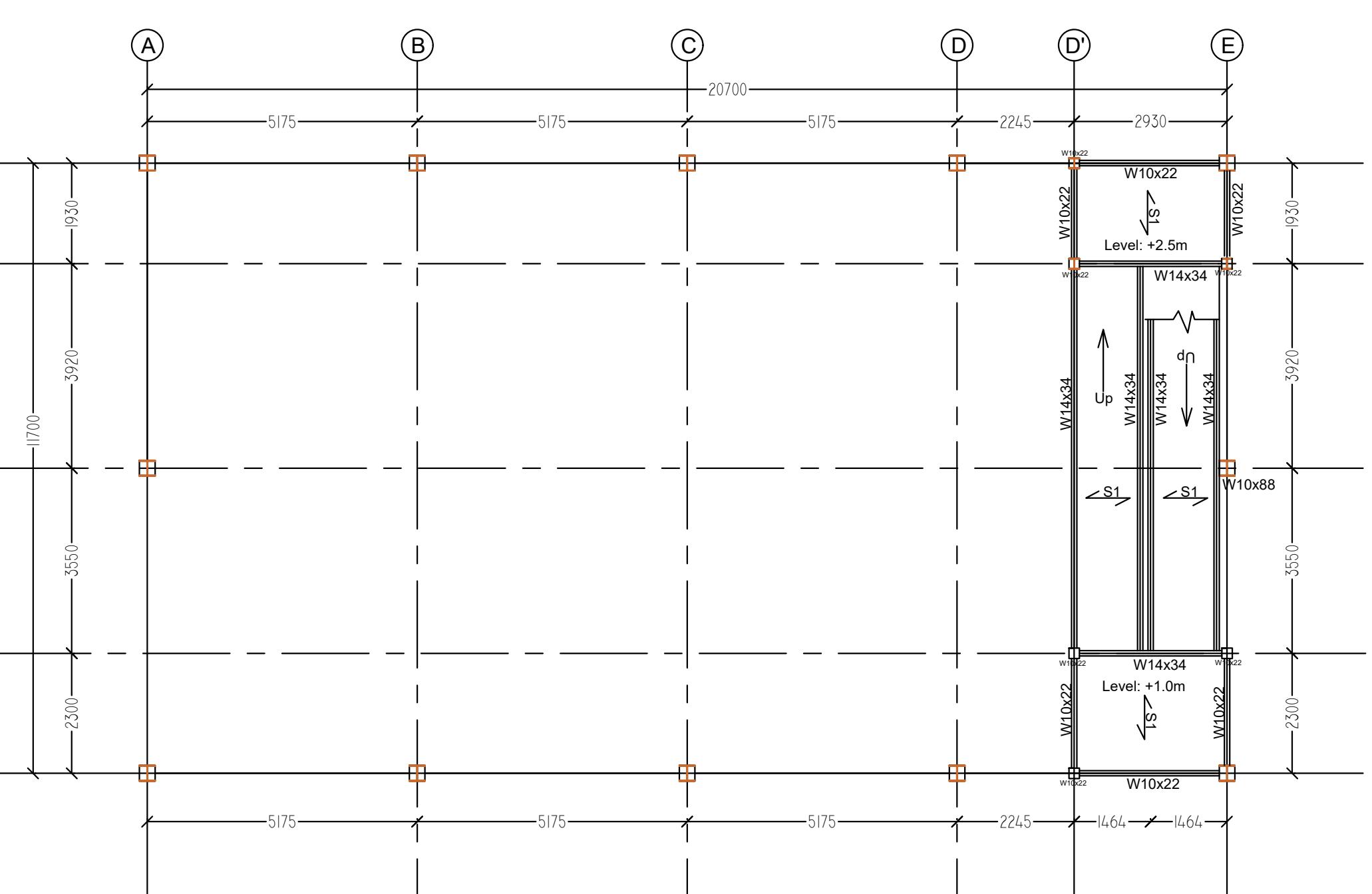
STRUCTURAL 2ND FLOOR FRAMING PLAN

12

S-2

SCALE NTS

1:100 METERS



STRUCTURAL RAMP FRAMING PLAN

13

S-2

SCALE NTS

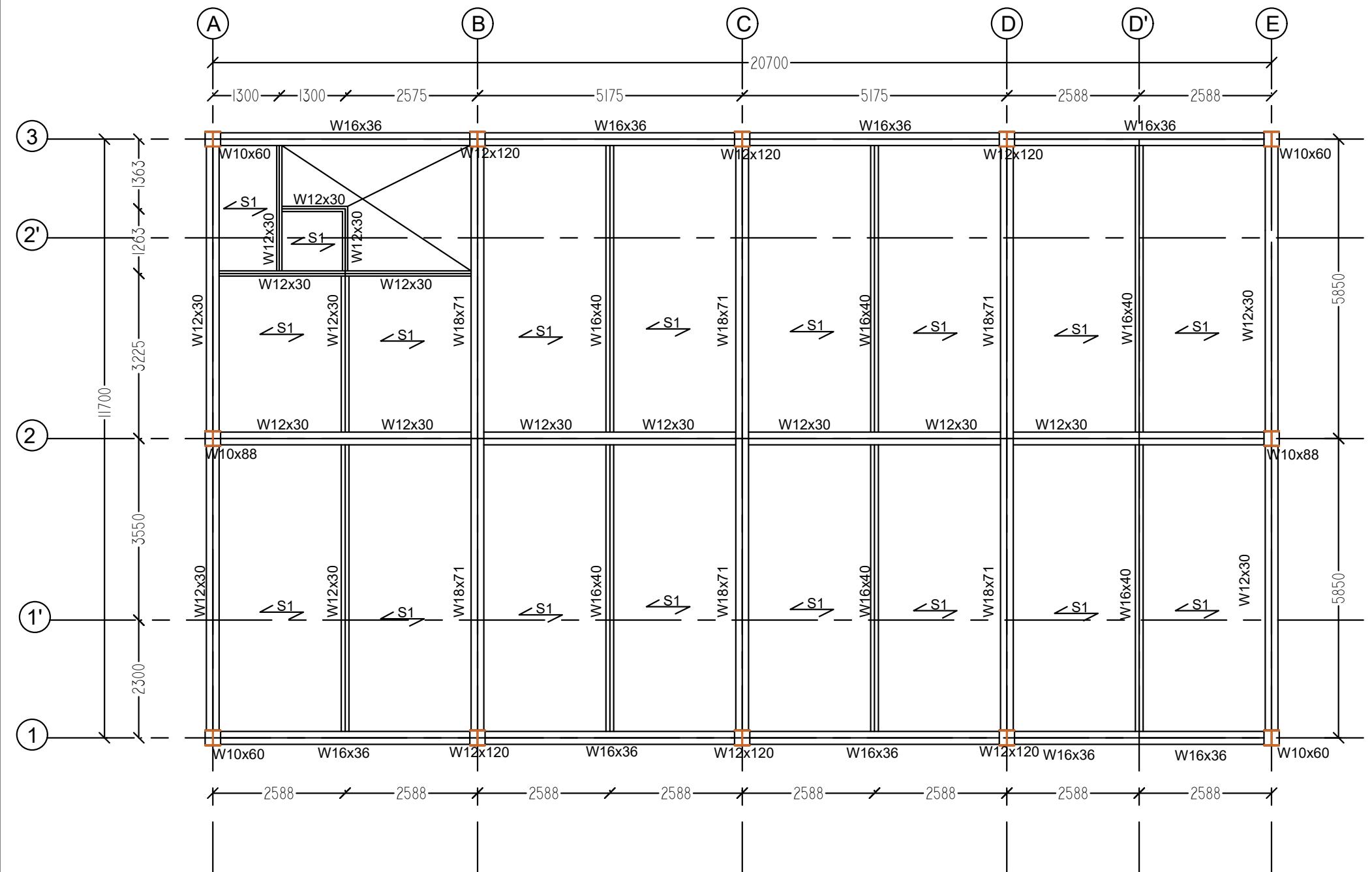
1:100 METERS

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STRUCTURAL ROOF DECK FRAMING PLAN

14 S-3 SCALE

1:100 METERS

C21 : Fy420 , COVER = 40MM	C21 : Fy420 , COVER = 40MM	C21 : Fy420 , COVER = 40MM
Dia.10: 1@50 from both face, rest @100 O.C.	Dia.10: 1@50 from both face, rest @100 O.C.	Dia.10: 1@50 from both face, rest @100 O.C.
8 pcs-Dia.20	8 pcs-Dia.20	4 pcs-Dia. 16
Label	Ped-1	Ped-2
	Ped-3	

REINFORCED CONCRETE COLUMN/PEDESTAL SCHEDULE

STRUCTURAL COLUMN SCHEDULE

15 S-3 SCALE

NTS

17 S-3 SCALE

NTS

STRUCTURAL STEEL SECTION SCHEDULE

SCHEDULE OF STEEL SECTIONS					
LEVEL	MARK	DIMENSION			
		d (mm)	bf (mm)	w (mm)	tf (mm)
Column	W 10x60	207	133	5.84	8.38
B1	W 10x88	200	100	4.32	5.21
B2	W 12x120	310	165	5.84	9.65
B2	W 12x30	310	165	5.84	9.65
B2	W 16x40	310	165	5.84	9.65
B2	W 18x71	310	165	5.84	9.65
Ramp	W 14x34	356	171	7.24	11.6
Ramp	W 10x22	259	146	6.10	9.14



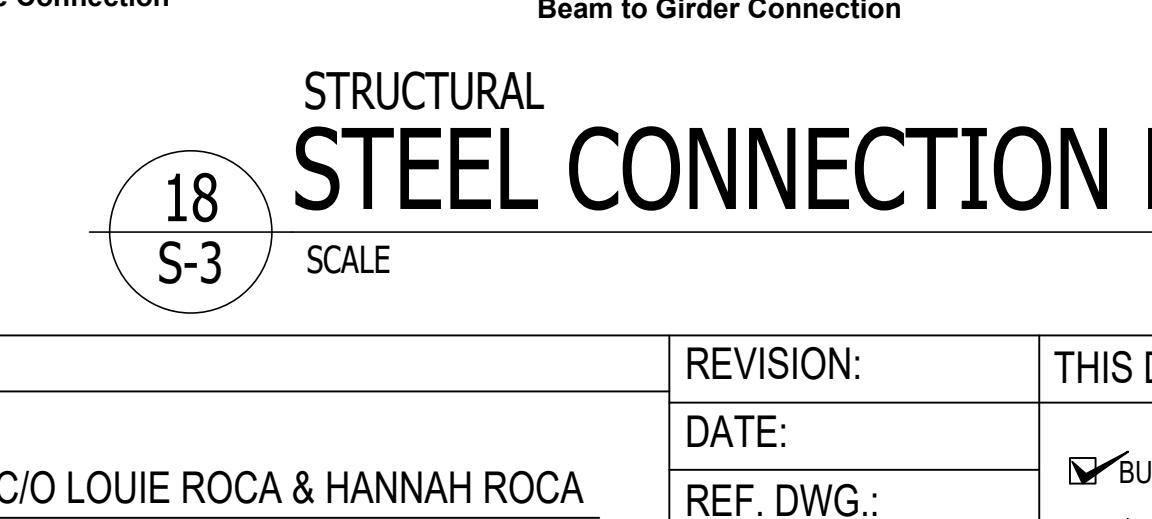
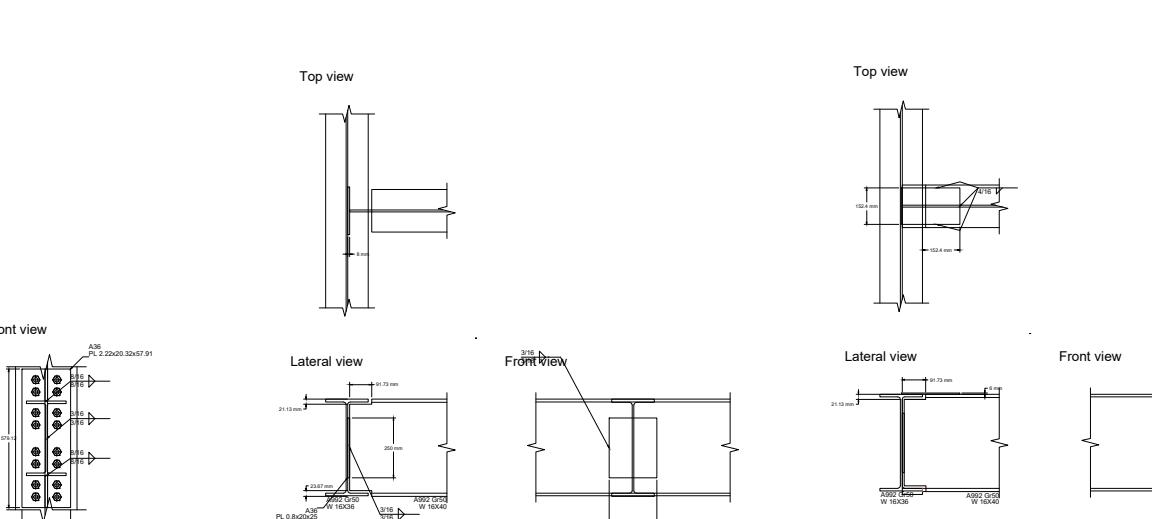
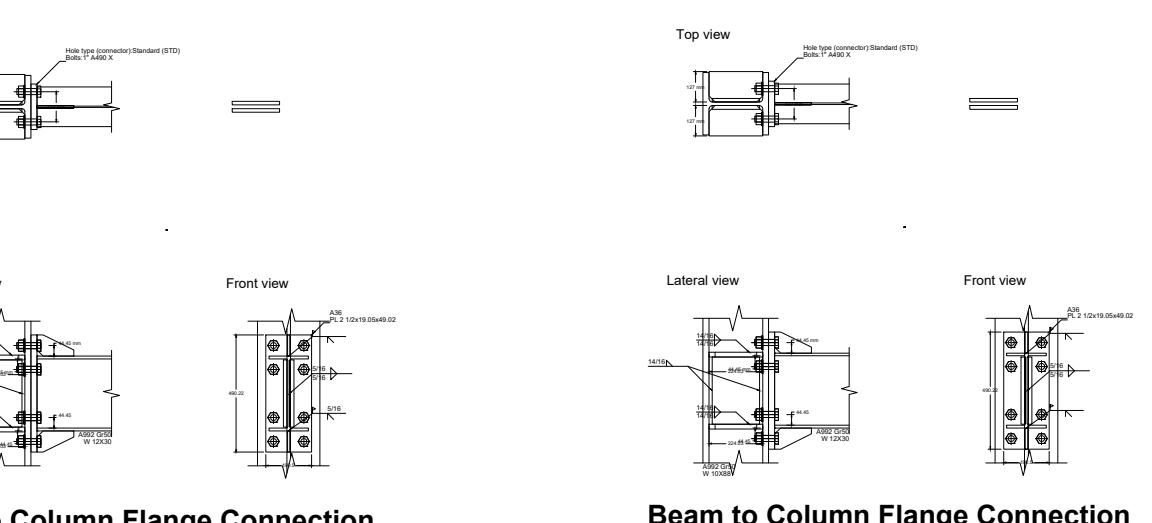
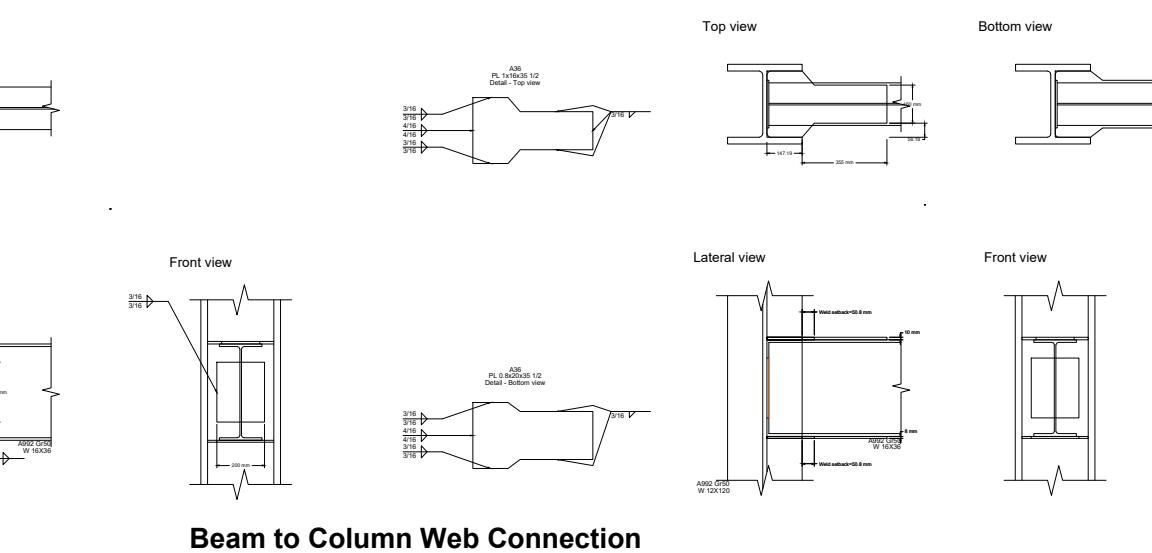
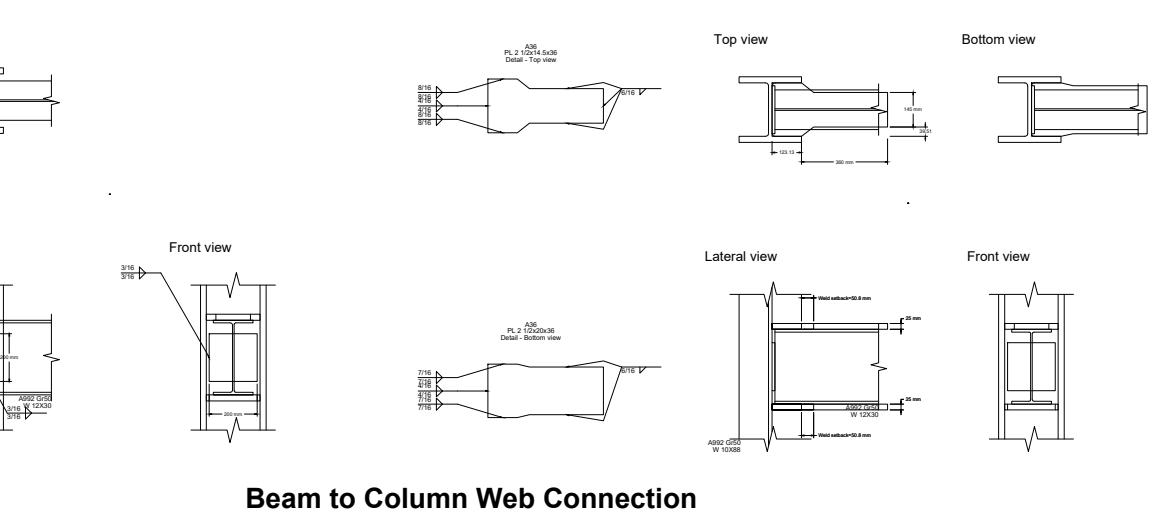
STRUCTURAL STEEL CONNECTION DETAIL

18 S-3 SCALE

NTS

STRUCTURAL STEEL CONNECTION DETAIL

SLAB LABEL	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT				REMARKS	DETAIL
		ALONG SHORT SPAN	ALONG LONG SPAN	OVER LONG SUPPORT	OVER SHORT SUPPORT	DISTRIBUTION					
S1	150 mm	Ø10 @ Bottom Rib	---	---	---	Ø10mm @ 150 O.C.	Ø10mm @ 150 O.C.	Ø10mm @ 150 O.C.	Ø10mm @ 150 O.C.	On Ga. 18 Steel Deck	



STRUCTURE DRAWING SHEET NO. 3