



**FOR APPROVAL PLANS OF
REGIONAL TVET INNOVATION
CENTERS (RTICs) 2023**

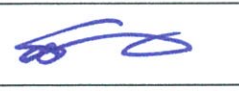
PROJECT OWNER:

**TECHNICAL EDUCATION
AND
SKILLS DEVELOPMENT
AUTHORITY**
MAIN OFFICE ADDRESS: TESDA COMPLEX, East Service Road SLEX, Taguig City

PROJECT TITLE:
**PROPOSED TESDA SOCCSKSARGEN
INNOVATION CENTER**
LOCATION: Spring, Alabon, Sarangani Province

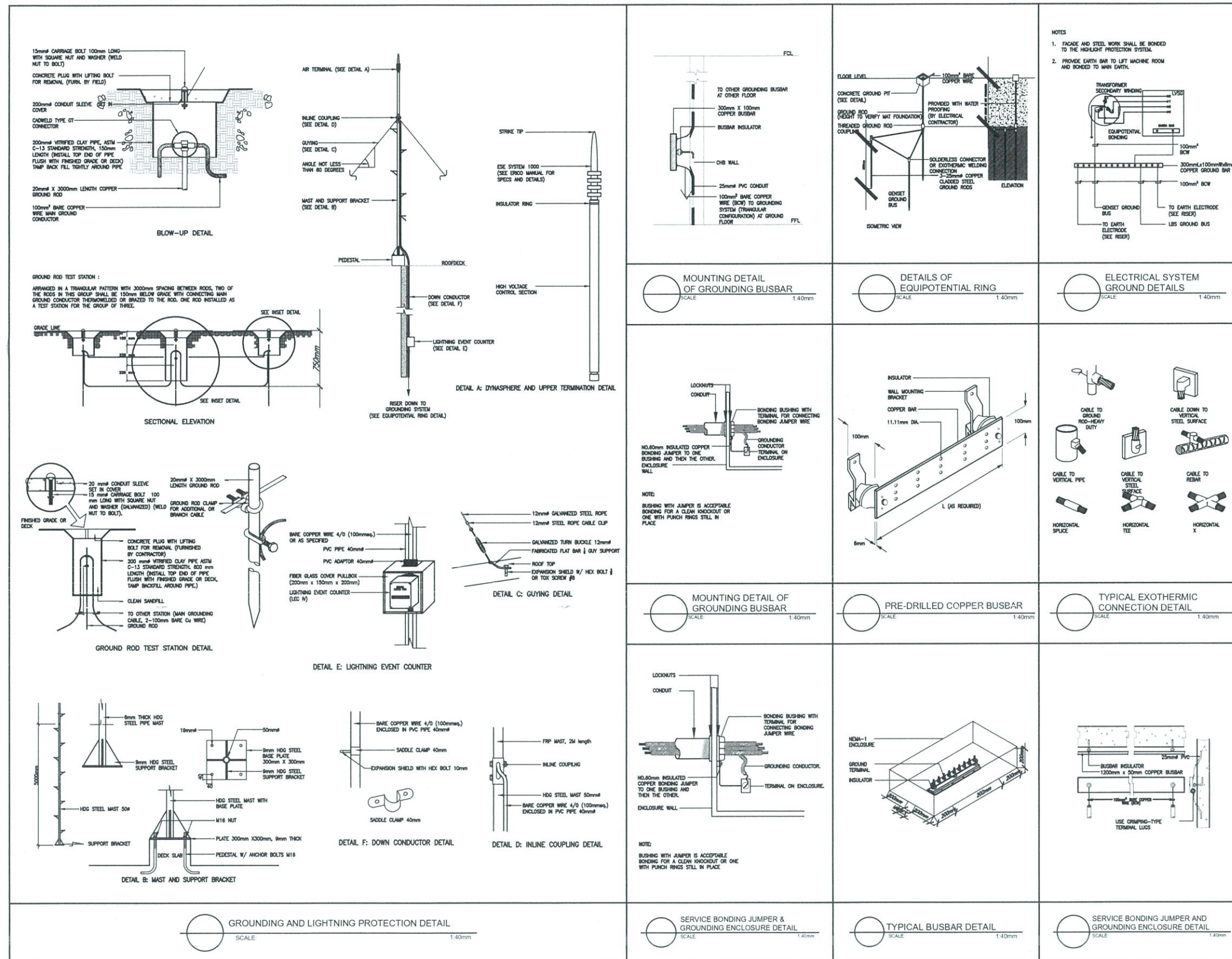
ELECTRICAL ENGINEER:

ENGR. JOHN ADRIAN E. SANTOS
PMU-SIPTVETS
ENGINEERING SECTION

PROJECT MANAGER:

DIR. ENRIQUE C. BANARIO
PMU-SIPTVETS


PROJECT DIRECTOR:

SEC. SUHARTO T. MANGUDATU, Ph.D.
PMU-SIPTVETS

SHEET CONTENTS:
MISCELLANEOUS DETAILS -
TYPICAL LIGHTING
DETAILS

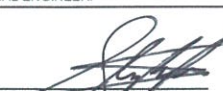
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E-6

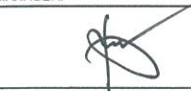


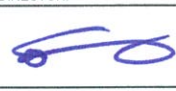
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MAIN OFFICE ADDRESS: TESDA COMPLEX, East Service Road SLEX, Taguig City

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INNOVATION CENTER**
LOCATION: Spring, Aklan, Sarangani Province

ELECTRICAL ENGINEER:

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SHEET CONTENTS:
MISCELLANEOUS DETAILS -
TYPICAL GROUNDING AND
LIGHTNING PROTECTION
DETAILS

SHEET NO.
E-7

GENERAL NOTES AND SPECIFICATIONS

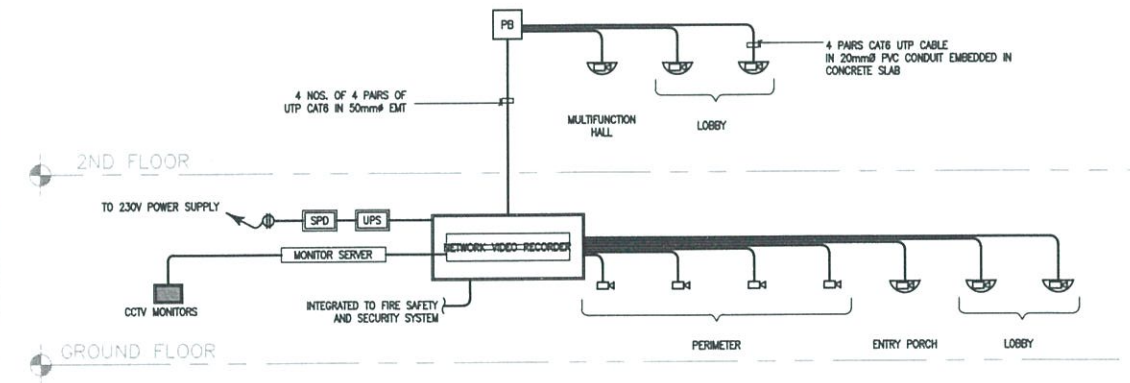
- ALL WORKS HEREIN INCLUDED SHALL BE EXECUTED IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE LOCALITY AND THE REQUIREMENTS OF THE CLIENT/OWNER.
- ALL WORKS HEREIN INCLUDED SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF A FULL TIME LICENSED ELECTRONICS AND COMMUNICATIONS ENGINEER (ECE). ALL WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- MATERIALS SHALL BE NEW AND SHALL CONFORM WITH THE STANDARD AMERICAN UNDERWRITER'S LABORATORIES, INC., IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL IN QUESTION. ALL EQUIPMENT SHALL BE PURCHASED ACCORDING TO SPECIFICATIONS.
- ALL EXPOSED & CEILING CONCEALED CONDUITS SHALL BE OF INTERMEDIATE METALLIC CONDUIT ON HIGH STRENGTH AND GALVANIZED WITH AN ADDITIONAL INTERIOR PROTECTIVE COATING SHALL BE USED OR AS INDICATED IN THE PLANS. ALL EMBEDDED CONDUITS SHALL BE OF POLYVINYL CHLORIDE. ALL EXPOSED AND NOT PRONE TO DAMAGE CONDUITS SHALL BE OF ELECTRICAL METALLIC TUBING.
- VOICE AND DATA WIRING SHALL BE SEPARATED FROM ANY OTHER BUILDING OR POWER WIRING, TO PREVENT HUMMING AND ELECTROMAGNETIC INTERFERENCE (EMI), TO MEET OR EXCEED THE EIA/TIA 568A CABLE STANDARD.
- ALL CONDUITS AND WIRE WAYS SHALL BE PROTECTED AGAINST DAMAGES BY THE ENTRANCE OF WATER AND FOREIGN MATTER DURING CONSTRUCTION. ALL ENDS OF CONDUITS SHALL BE PROPERLY PLUGGED TO EXCLUDE MOISTURE AND DUST IMMEDIATELY AFTER THE CONDUITS ARE PLACED.
- ALL CONDUIT BENDS SHALL BE FIELD-MADE USING HYDRAULIC BENDERS. MINIMUM BENDING RADIUS SHALL BE IN ACCORDANCE WITH THE CODE.
- ALL PIPES AND FITTINGS ON EXPOSED WORK SHALL BE SUPPORTED AND SECURED BY MEANS OF C-CHANNELS AND CLAMPS.
- THE POSITION OF ALL ELECTRONICS EQUIPMENT AS SHOWN IN THE DRAWINGS ARE APPROXIMATE ONLY. THE EXACT POSITIONS SHALL BE DETERMINED ON SITE.
- ALL MDF'S AND IDF'S SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF PHILIPPINE ELECTRICAL/ELECTRONICS, EIA AND IBCSI CODE. THEY SHALL BE PAINTED WITH A COAT OF ANTI-RUST PAINT AND TWO COATS OF SEMI-GLASS TEAK PAINT OF BEST QUALITY TO THE APPROVAL OF THE CONSULTANT.
- ALL ELECTRONICS EQUIPMENT AND DEVICES LOCATIONS SHOWN ARE INDICATIVE ONLY AND THE ELECTRICAL CONTRACTOR MUST COORDINATE WITH THE ARCHITECT AND OR THE INTERIOR DESIGNER, AS WELL AS EQUIPMENT SUPPLIERS.
- ALL ELECTRONICS EQUIPMENT & ACCESSORIES THAT ARE EXPOSED OR LESS THAN 2.0m AWAY FROM WATER SOURCES SHALL BE OF WATERPROOF TYPE.
- COLOR FOR ALL TELECOMMUNICATION FACE PLATES SHALL BE AS PER ARCHITECT'S/INTERIOR DESIGNER'S SELECTION.
- SIZING OF ALL PULLBOXES SHALL BE COMPUTED BASED ON THE CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. LOCATION OF PULLBOXES SHALL BE AS APPROVED BY THE ARCHITECT/ENGINEER AND MUST BE REFLECTED ON THE "AS-BUILT" PLANS.
- MOUNTING HEIGHTS OF DEVICES (RJ-45 JACKS) SHALL BE AS APPROVED BY THE ARCHITECT OR AS FOLLOWS:
TELECOM/DATA OUTLET0.30m ABOVE FINISHED FLOOR TO CENTER OF DEVICE
0.15m ABOVE WORKING COUNTER TO CENTER OF DEVICE
- ALL ITEMS OF MATERIAL NOT FURNISHED BY REQUESTION AND REQUIRED TO COMPLETE THE INSTALLATION IN A GOOD, WORKMANLIKE MANNER SHALL BE PROVIDED BY THE IT CABLEING CONTRACTOR.
- THE PLANS AS DRAWN ARE BASED UPON THE ARCHITECTURAL PLANS AND THE DETAILS AND SHOWN CONDITIONS AS ACCURATELY AS IT IS POSSIBLE TO INDICATE THEM IN SCALE. THE PLANS ARE DIAGRAMMATICAL AND DO NOT NECESSARILY SHOW ALL FITTINGS NECESSARY TO FIT TO THE BUILDING CONDITIONS. THE LOCATIONS OF OUTLETS, APPARATUS AND APPLIANCE SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE HELD 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.
- UPON COMPLETION OF IT CABLEING WORKS, THE FOLLOWING TESTS SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS AND IN FORMS APPROVED BY THE OWNERS REPRESENTATIVE:
A. SIGNAL ATTENUATION TEST
B. CONTINUITY TEST
C. NEAR-END CROSSTALK TEST
D. IMPEDANCE TEST
E. RESISTANCE TEST
F. WIRE MAP TEST

ABBREVIATIONS

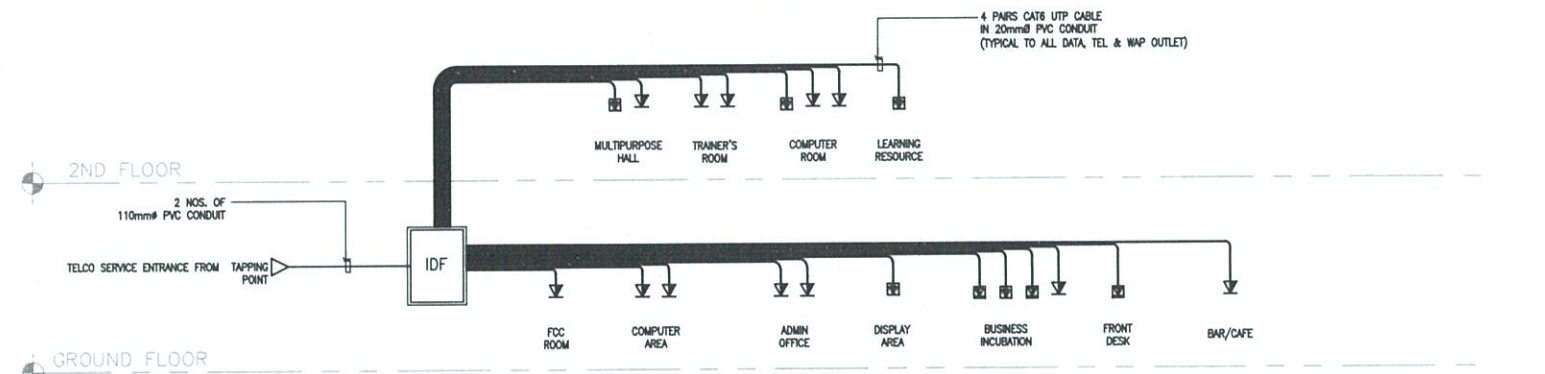
ACP	ACCESS CONTROL PANEL
ACS	ACCESS CONTROL SYSTEM
BGM	BACKGROUND MUSIC
C	CONDUIT
CAT	CATEGORY
CDP	COMMUNICATION DISTRIBUTION PANEL
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
DC	DOOR CONTACT
DOL	DIRECT ON LINE
EMT	ELECTROMETALLIC TUBING
ELV	EXTRA LOW VOLTAGE
EVAC	EMERGENCY VOICE ALARM COMMUNICATION
FA	FIRE ALARM
FR	FIRE RATED
MVR	NETWORK VIDEO RECORDER
PVC	POLYVINYL CHLORIDE
PATB	PUBLIC ADDRESS TERMINAL BOARD
TEL	TELEPHONE
TTC	TELEPHONE TERMINAL CABINET
TH#H	THERMOPLASTIC HEAT RESISTANT (90°C) WITH NYLON JACKET
FCC	FIRE COMMAND CENTER
FACP	FIRE ALARM CONTROL PANEL
FATB	FIRE ALARM TERMINAL BOARD
FDAS	FIRE ALARM AND DETECTION SYSTEM
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METALLIC CONDUIT
NAP	NETWORK ACCESS POINT
ODF	OPTICAL DISTRIBUTION FRAME
PA	PUBLIC ADDRESS
RD	RISER DOWN
RU	RISER UP
RSC	RIGID STEEL CONDUIT
SMS	SECURITY MANAGEMENT SYSTEM
TX	TRANSFORMER
THW	THERMOPLASTIC HEAT AND MOISTURE RESISTANT
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
WP	WEATHER PROOF
FDB	FIBER DISTRIBUTION BOARD

AUXILIARY SYSTEMS LEGEND AND SYMBOL

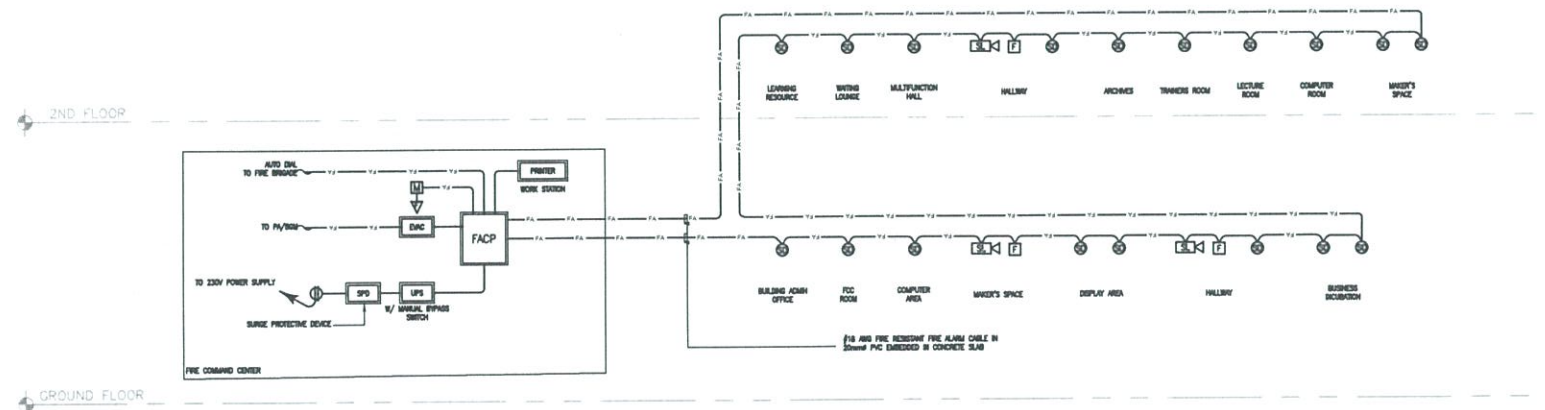
SYMBOLS	DESCRIPTION
	DOM-TYPE, IP-BASED CCTV CAMERA
	IP BASED CAMERA, FIXED TYPE, WEATHER PROOF
	VOICE/DATA OUTLET
	FLOOR MOUNTED VOICE/DATA OUTLET
	INPUT MODULE
	GROUND BAR
	SMOKE DETECTOR
	HEAT DETECTOR
	STROBE LIGHT WITH SOUNDER
	MANUAL PULL STATION
	FIREMAN'S TELEPHONE JACK
	HORN TYPE SPEAKER
	CEILING-MOUNTED SPEAKER
	INTERCOM UNIT
	FIRE ALARM CONTROL PANEL
	RISER UP/DOWN
	PA MICROPHONE



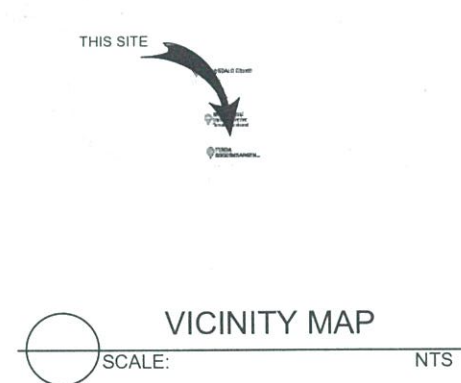
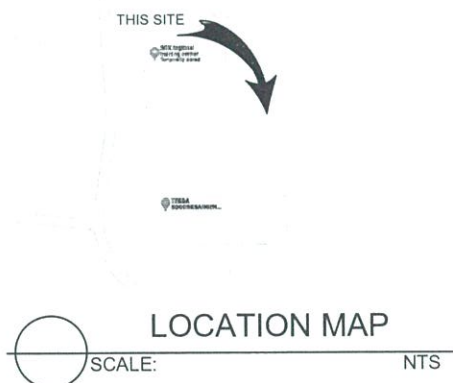
CCTV SINGLE LINE DIAGRAM
SCALE: NTS



VOICE/DATA SINGLE LINE DIAGRAM
SCALE: NTS



FDAS SINGLE LINE DIAGRAM
SCALE: NTS



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AUTHORITY**

PROJECT TITLE:
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INNOVATION CENTER**

ELECTRICAL ENGINEER:

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PMU-SIPTVETS
ENGINEERING SECTION

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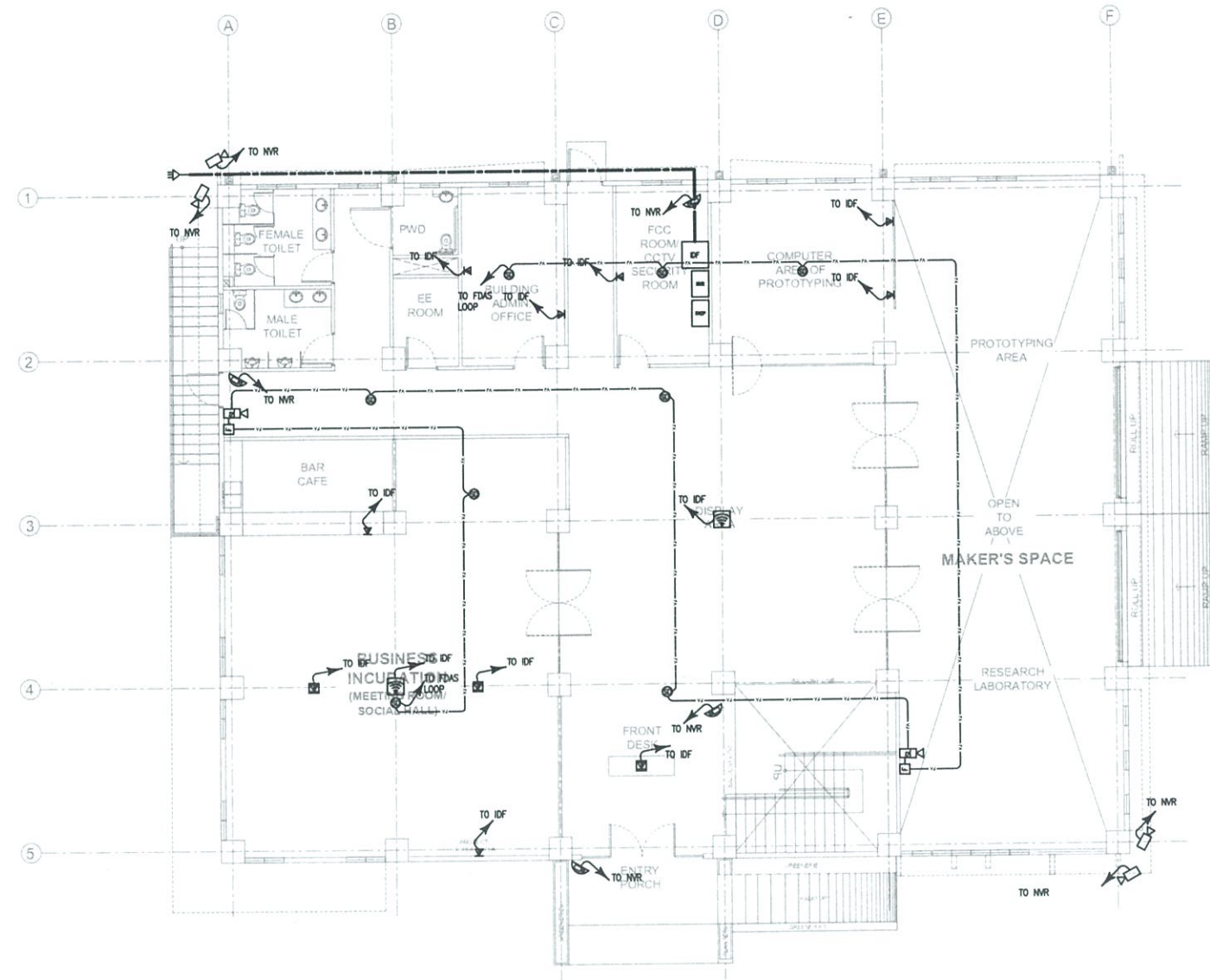
PROJECT DIRECTOR:

SEC. SUHARTO T. MANGUADATU, Ph.D.
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SHEET CONTENTS:
GENERAL NOTES
ABBREVIATION
LOCATION & VICINITY MAP
CCTV SINGLE LINE DIAGRAM
VOICE/DATA SINGLE LINE DIAGRAM

SHEET NO.
EC-0A

LEGENDS AND SYMBOLS	
	SMOKE DETECTOR
	MANUAL PULL STATION
	STROBE LIGHT
	FIREMAN'S TELEPHONE JACK
	INPUT MODULE
	OUTPUT MODULE
	CEILING MOUNTED SPEAKER
	PA MICROPHONE
	RISER UP/DOWN
	FIXED TYPE, IP-BASED CCTV CAMERA
	DOMED TYPE, IP-BASED CCTV CAMERA
	WALL MOUNTED, VOICE/DATA OUTLET
	FLOOR MOUNTED, VOICE/DATA OUTLET
	WIRELESS ACCESS POINT



TESDA INNOVATION CENTER - TESDA-SOCCSKSARGEN
GROUND FLOOR AUXILIARY LAYOUT



SCALE:

1: 200 mm

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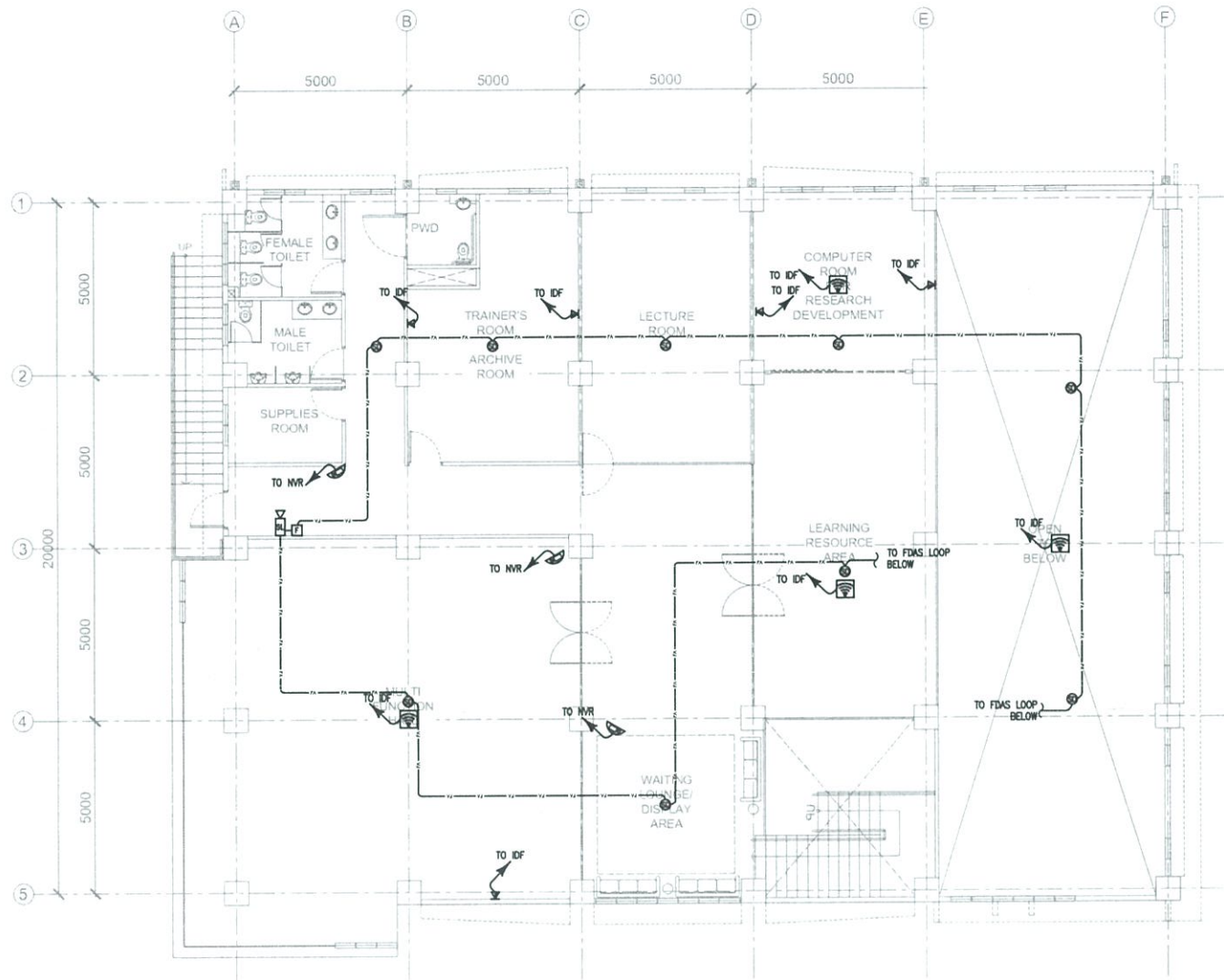
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SHEET CONTENTS:
GROUND FLOOR AUXILIARY LAYOUT

SHEET NO.

EC-1

LEGENDS AND SYMBOLS	
	SMOKE DETECTOR
	MANUAL PULL STATION
	STROBE LIGHT
	FIREMAN'S TELEPHONE JACK
	INPUT MODULE
	OUTPUT MODULE
	CEILING MOUNTED SPEAKER
	PA MICROPHONE
	RISER UP/DOWN
	FIXED TYPE, IP-BASED CCTV CAMERA
	DOMED TYPE, IP-BASED CCTV CAMERA
	WALL MOUNTED, VOICE/DATA OUTLET
	FLOOR MOUNTED, VOICE/DATA OUTLET
	WIRELESS ACCESS POINT



TESDA INNOVATION CENTER - TESDA-SOCCSKSARGEN

SECOND FLOOR AUXILIARY LAYOUT

SCALE: 1: 200 mm

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LOCATION: Spring, Abul, Sarangani Province

ELECTRICAL ENGINEER:

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ENGINEERING SECTION

PROJECT MANAGER:

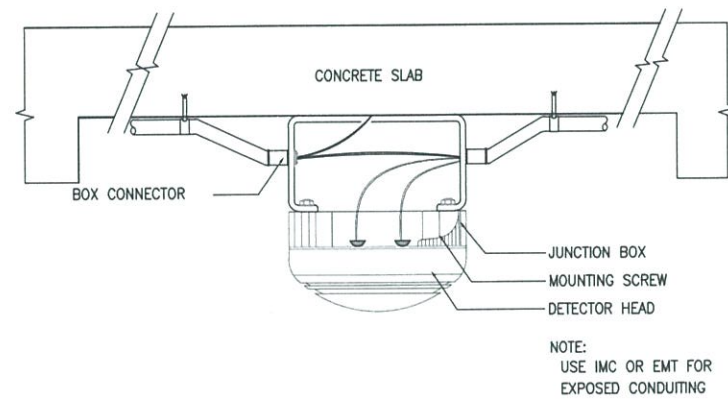
DIR. ENRICO C. BANARIO
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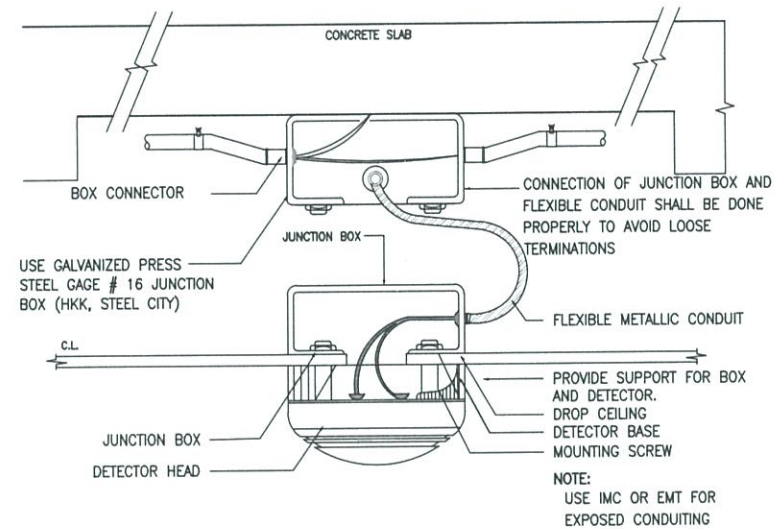
SEC. SUHARTO T. MANGUDADATU, Ph.D.
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SHEET CONTENTS:
2ND FLOOR AUXILIARY LAYOUT

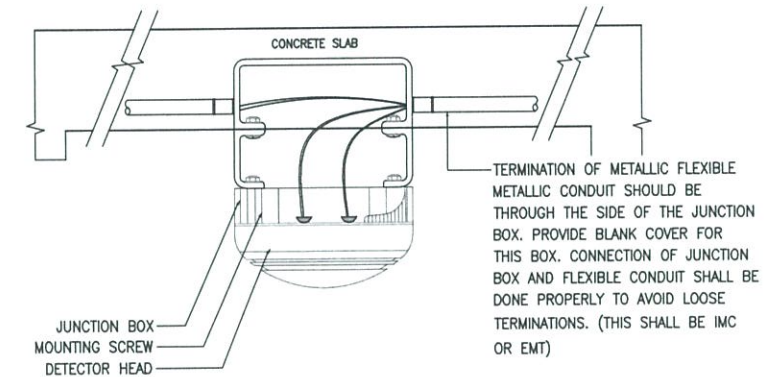
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EC-2



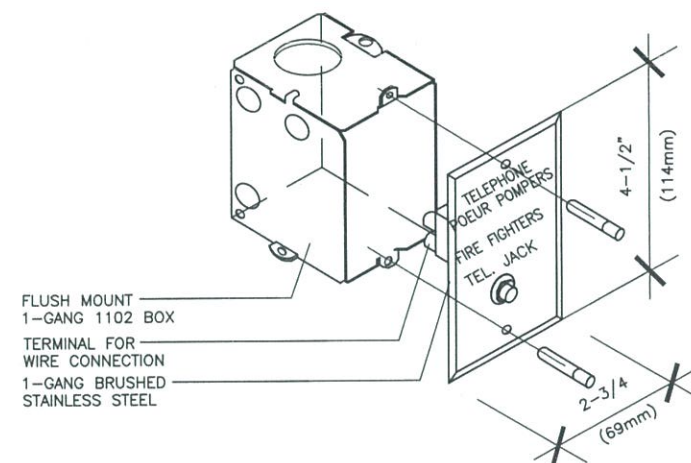
SMOKE DETECTOR MOUNTING DETAIL ON CONCRETE WITH EXPOSED CONDUITS
SCALE: NTS



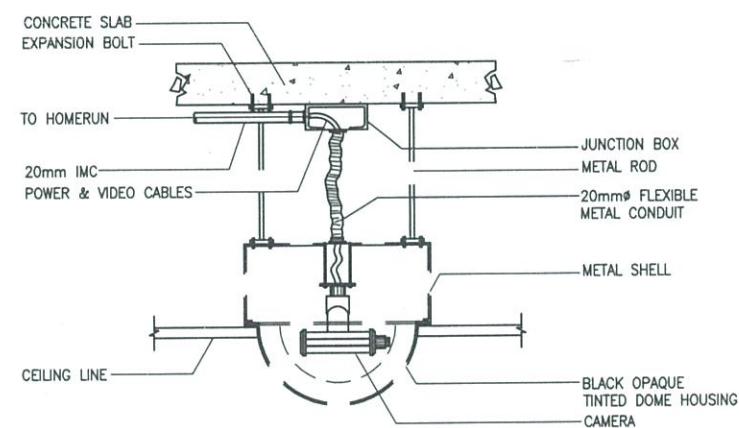
SMOKE DETECTOR MOUNTING DETAIL ON DROP CEILING WITH EXPOSED CONDUITS
SCALE: NTS



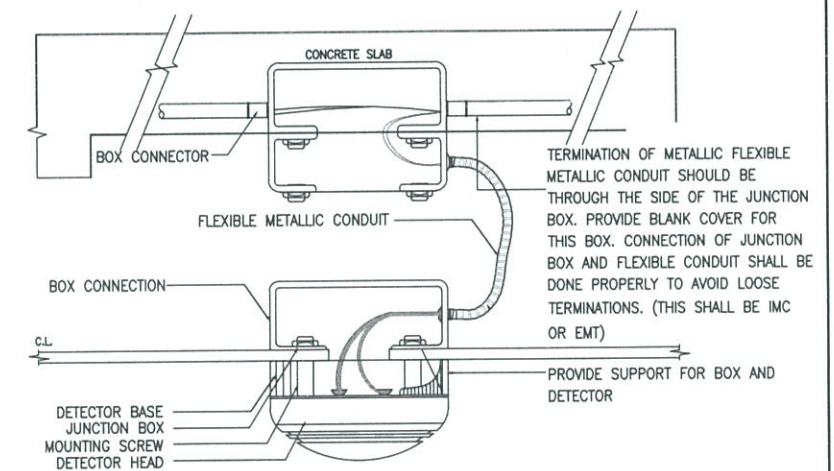
SMOKE DETECTOR MOUNTING DETAIL ON CONCRETE WITH EMBEDDED CONDUITS
SCALE: NTS



FIREMAN'S TELEPHONE JACK MOUNTING DETAIL
SCALE: NTS




TYPICAL CAMERA MOUNTING DETAIL
SCALE: NTS




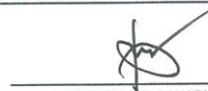
SMOKE DETECTOR MOUNTING DETAIL ON DROP CEILING WITH EMBEDDED CONDUITS
SCALE: NTS


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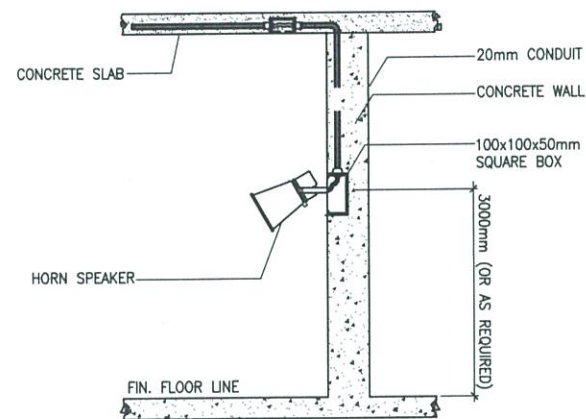
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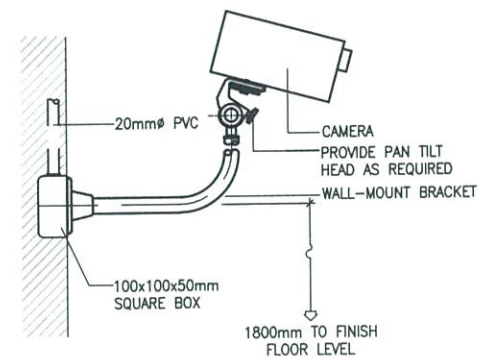
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SHEET CONTENTS:
MISCELLANEOUS DETAILS

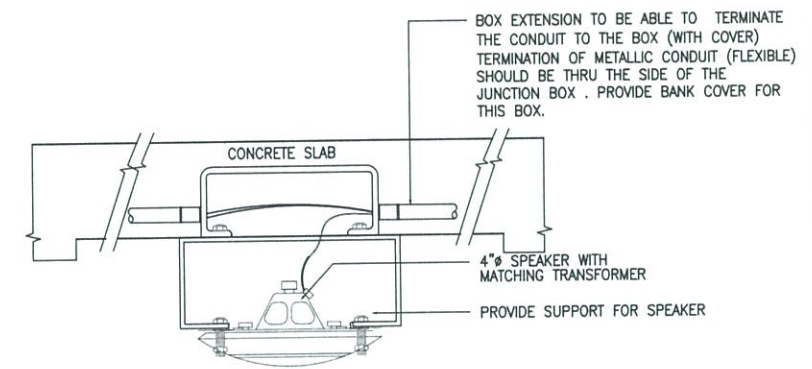
SHEET NO.
EC-3



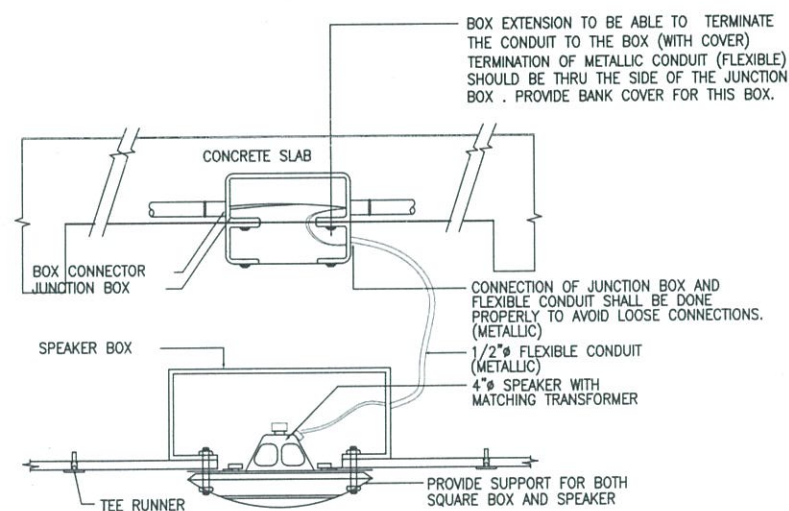
WALL MOUNTED HORN SPEAKER
MOUNTING DETAIL
SCALE: NTS



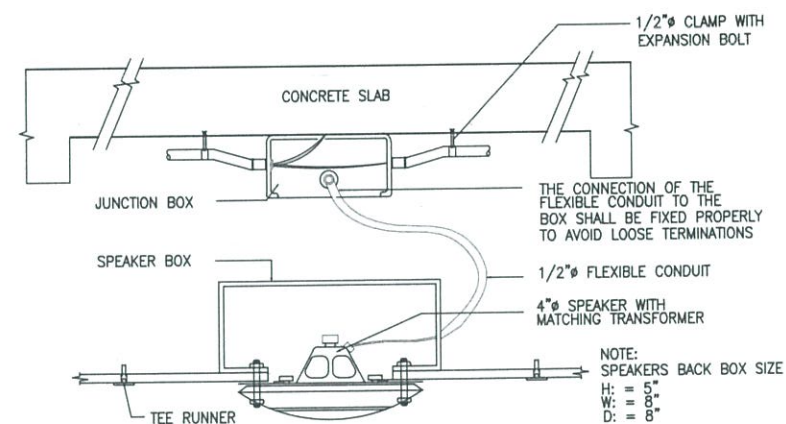
WALL MOUNTED CCTV MOUNTING DETAIL
SCALE: NTS



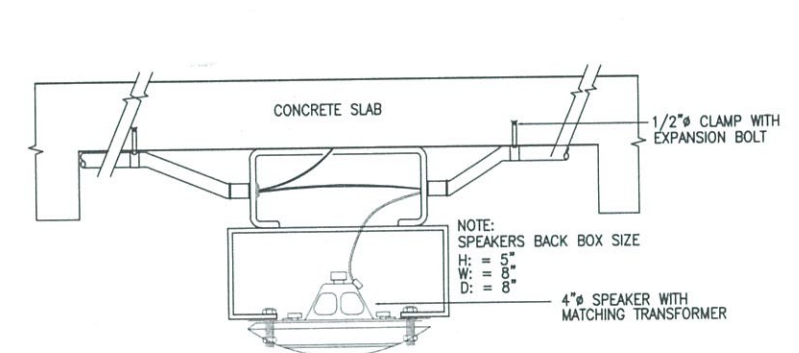
SPEAKER MOUNTING DETAIL ON
CONCRETE WITH EMBEDDED CONDUITS
SCALE: NTS



SPEAKER MOUNTING DETAIL ON DROP
CEILING WITH EMBEDDED CONDUITS
SCALE: NTS



SPEAKER MOUNTING DETAIL ON DROP
CEILING WITH EXPOSED CONDUITS
SCALE: NTS



SPEAKER MOUNTING DETAIL ON
CONCRETE WITH EXPOSED CONDUITS
SCALE: NTS

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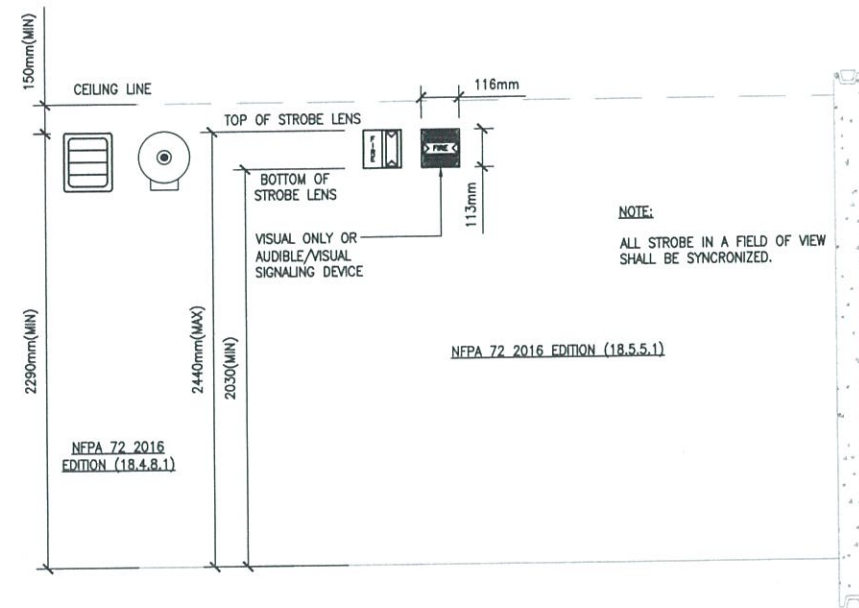
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PROJECT DIRECTOR:
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PMU-SIPTVETS

SHEET CONTENTS:
MISCELLANEOUS DETAILS

SHEET NO.

EC-4



NFPA 72 2016 EDITION (18.4): AUDIBLE CHARACTERISTICS

NFPA 72 2016 EDITION (18.4.8): LOCATION OF AUDIBLE NOTIFICATION APPLIANCES FOR BUILDING OR STRUCTURES.

NFPA 72 2016 EDITION (18.4.8.1): IF CEILING HEIGHTS ALLOW, AND UNLESS OTHERWISE PERMITTED BY 18.4.8.2 THROUGH 18.4.8.5, WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 2290mm(90in.) AND BELOW THE FINISHED CEILING AT DISTANCES OF NOT LESS THAN 150mm(6in.)

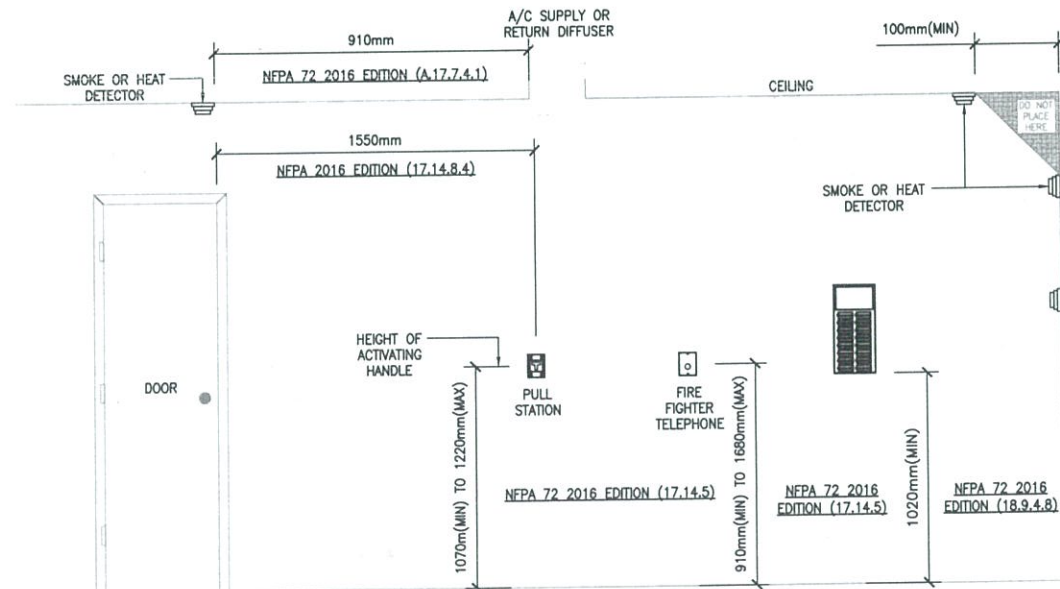
NFPA 72 2016 EDITION (18.4.8.3): IF COMBINATION AUDIBLE/VISIBLE APPLIANCES ARE INSTALLED, THE LOCATION OF THE APPLIANCE SHALL BE DETERMINED BY THE REQUIREMENTS OF 18.5.5

NFPA 72 2016 EDITION (18.5): VISIBLE CHARACTERISTICS PUBLIC MODE.

NFPA 72 2016 EDITION (18.5.5): APPLIANCES LOCATION.

NFPA 72 2016 EDITION (18.5.5.1): WALL MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 2030mm (80in) AND NOT GREATER THAN 2440mm (96in.) ABOVE THE FINISHED FLOOR OR AT THE MOUNTING HEIGHT SPECIFIED USING THE PERFORMANCE BASED ALTERNATIVE. AT NFPA 2016 EDITION (A7.5.4.5).

NFPA 72 2016 EDITION (18.5.5.5.5): VISIBLE NOTIFICATION APPLIANCES SHALL BE LOCATED NOT MORE THAN 4570mm(15ft.) FROM THE END OF THE CORRIDOR WITH A SEPARATION NOT GREATER THAN 30500mm(100ft) BETWEEN APPLIANCES.



NFPA 72 2016 EDITION 17.6.3.1.3.1 HEAT - UNLESS OTHERWISE MODIFIED BY 17.6.3.2.2 OR 17.6.3.3.2 OR 17.6.3.7 SPOT-TYPE HEAT-SENSING FIRE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS THAN 100mm (4in) FROM THE SIDEWALL OR ON THE SIDEWALLS BETWEEN 100mm AND 300mm (4in. AND 12 in.) FROM THE CEILING.

NFPA 72 2016 EDITION (A.17.7.4.1): DETECTORS SHOULD NOT BE LOCATED IN A DIRECT AIRFLOW OR CLOSER THAN 910mm(36in.) FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. SUPPLY OR RETURN SOURCES LARGER THAN THOSE COMMONLY FOUND IN RESIDENTIAL AND SMALL COMMERCIAL ESTABLISHMENT CAN BE REQUIRE GREATER CLEARANCE TO SMOKE DETECTORS.

NFPA 72 2016 EDITION (17.14.8.4): MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 1.5m (5ft.) OF EACH EXIT DOORWAY ON EACH FLOOR.

NFPA 72 2016 EDITION (17.14.5): THE OPERABLE PART OF A MANUALLY ACTIVATED ALARM INITIATING DEVICE SHALL BE NOT LESS THAN 42in. (1070mm) AND NOT MORE THAN 48in. (1220mm) FROM THE FINISHED FLOOR.

NFPA 72 2016 EDITION (17.7.3.2.1): SPOT-TYPE SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING OR, IF ON A SIDEWALL, BETWEEN THE CEILING AND 12in. (300mm) DOWN FROM THE CEILING TO THE TOP OF DETECTOR.

NFPA 72 2016 EDITION (24.8.17): WALL MOUNTED TELEPHONE APPLIANCES OR RELATED JACKS SHALL BE NOT LESS THAN 910mm(36in.) AND NOT MORE THAN 1680mm(66in.) ABOVE FLOOR LEVEL WITH CLEAR ACCESS TO THE APPLIANCE THAT IS AT LEAST 760mm(30in.) WIDE.


NFPA 72 2016 EDITION (18.9.4.8*): ALL CHARACTERS AND GRAPHICAL VISIBLE NOTIFICATION APPLIANCES SHALL BE A MINIMUM OF 1020mm(40in.) ABOVE THE GROUND OR FINISHED FLOOR.

NFPA 72 2016 EDITION (18.11): STANDARD EMERGENCY SERVICE INTERFACE. WHERE REQUIRED BY THE ENFORCING AUTHORITY; GOVERNING LAWS, CODES, OR STANDARDS; OR OTHER PARTS OF THIS CODE, ANNUNCIATORS, INFORMATION DISPLAY SYSTEMS, AND CONTROL FOR PORTIONS OF A SYSTEM PROVIDED FOR USE BY EMERGENCY SERVICE PERSONNEL SHALL BE DESIGNED, ARRANGED, AND LOCATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ORGANIZATIONS INTENDED TO USE THE EQUIPMENT.


FIRE ALARM SYSTEM DEVICE MOUNTING HEIGHTS AND LIMITATIONS


SCALE: NTS


FOR APPROVAL PLANS OF
REGIONAL TVET INNOVATION
CENTERS (RTICs) 2023

PROJECT OWNER:
 TECHNICAL EDUCATION
AND
SKILLS DEVELOPMENT
AUTHORITY

PROJECT TITLE:
PROPOSED TESDA SOCCSKSARGEN
INNOVATION CENTER

ELECTRICAL ENGINEER:

ENGR. JOHN ADRIAN C. SANTOS
PMU-SIPTVETS
ENGINEERING SECTION

PROJECT MANAGER:

DIR. ENRICO C. BANARIO
PMU-SIPTVETS

PROJECT DIRECTOR:

SEC. SUHARTO T. MANGUDATU, Ph.D.
PMU-SIPTVETS

SHEET CONTENTS:
FIRE ALARM SYSTEM DEVICE
MOUNTING HEIGHTS AND
LIMITATIONS

SHEET NO.

EC-5

GENERAL PLUMBING NOTES:

1. GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING WORKING DRAWNGS
2. THE WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH BASE BUILDING SPECIFICATION AND WITH THE LATEST EDITION OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND COVERING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.
3. ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH INSTALLATION.
4. NO CHARGES ARE TO BE MADE IN PLUMBING LAYOUT WITHOUT WRITTEN PERMISSION BY THE ENGINEER OR RECORDS/MASTER PLUMBER.
5. NO PIPING SHALL RUN EXPOSED IN SALES OR FINISHED AREA.
6. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
7. ROUGH-IN DIMENSIONS OF TOILET FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR AND FIELD SUPERVISOR.
8. INSTALL GATE VALVES/ BALL VALVES ON ALL BRANCH SUPPLY LINES.
9. PROVIDE ACCESS PANELS ON ALL INACCESSIBLE VALVES AND CLEANOUTS. ACCESS PANELS SHALL BE PROVIDED BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
10. ALL WORK SHALL BE PROPERLY TESTED, BALANCED AND CLEANED. PROVIDE ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
11. ALL FIXTURES TO BE SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR.
12. GENERAL CONTRACTOR SHALL COORDINATE WATER METER LOCATION AND INSTALLATION WITH LOCAL AUTHORITIES AND CIVIL DRAWNGS.
13. TRAP SEAL PRIMERS ARE TO BE PROVIDED AT NO ADDITIONAL COST TO OWNER/ CLIENT , IF REQUIRED BY LOCAL BUILDING CODE OFFICIALS.
14. ALL VENT PIPE SHALL BE EXHAUST OVER THE CEILING OF ROOF OVERHANG. NO VENT SHALL EXTENDED THRU ROOF.
15. APPLY A BEAD OF SEALANT AROUND ALL FIXTURES WHERE THEY MEET FLOORS, WALLS, ETC. PROVIDE PIPE SLEEVES AT ANY WALL/ FLOOR PENETRATION.
16. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND REPRESENT ONLY THE GENERAL AND APPROXIMATE LOCATIONS OF FIXTURES, PIPING, ETC. REFER TO THE ARCHITECTURAL PLANS AND ACTUAL CONDITIONS FOR LOCATING FIXTURES, ETC.
17. THAT ALL WATER SUPPLIES TO FIXTURES ARE ANCHORED TO PREVENT ANY LATERAL MOVEMENT.
18. SUPPORT ALL PIPING EQUIPMENT , ETC. AS PER CODE REQUIREMENTS.
19. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS OF PLUMBING.
20. FURNISH AS REQUIRED FOR ALL FIXTURES, INCLUDING ONES FURNISHED BY OTHERS, P-TRAPS, ANGLE STOPS, RISERS, ESCUTCHEONS, ETC.
21. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING RIGHT OR LEFT HAND OR FIXTURES.
23. ALL PENETRATIONS OF CONCRETE FOUNDATIONS & FOOTINGS SHALL BE MINIMUM OF 50MM DIAMETER.
24. ALL SANITARY SEWER PIPING UNDER CONCRETE SLAB SHALL BE MINIMUM OF 50MM DIAMETER.
25. REFER TO ARCHITECTURAL SPECIFICATIONS FOR SOIL COMPACTING, CONCRETE AND ASPHALT REPAIR.
26. SUBMIT SHOP DRAWINGS ON ALL PLUMBING FIXTURES, SEE ARCHITECTURAL FOR QUANTITY.
27. USE POLYPROPYLENE FOR ALL WATER SUPPLY LINES.
28. USE POLYVINYL CHLORIDE (PVC) SERIES 1000 FOR ALL DRAINAGE LINE, OBSERVE SLOPE OF 1% FOR LONG RUNNING DRAINAGE LINE AND SLOPE OF 2% FOR SHORT RUN DRAINAGE LINE, VERIFY.

GENERAL PLUMBING NOTES:

1. ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE REQUIREMENTS OF THE PHILIPPINE PLUMBING CODE AND RULES AND REGULATIONS OF THE GOVERNMENT.
2. COORDINATE DRAWNGS WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS.
3. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
4. PIPES SHALL BE INSTALLED AS INDICATED, ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE PIPE STRUCTURE.
5. ALL HORIZONTAL BRANCHES SHALL MAINTAIN 1% AS MINIMUM UNLESS NOTED OTHERWISE.
6. ALL FIXTURES SHALL VENTED, UNLESS INDICATED.
7. ALL INDIVIDUAL BRANCHES TO FIXTURES OR GROUP OF FIXTURES OR EQUIPMENT SHALL BE PROVIDED WITH AIR CHAMBER.

MATERIAL SPECIFICATIONS:

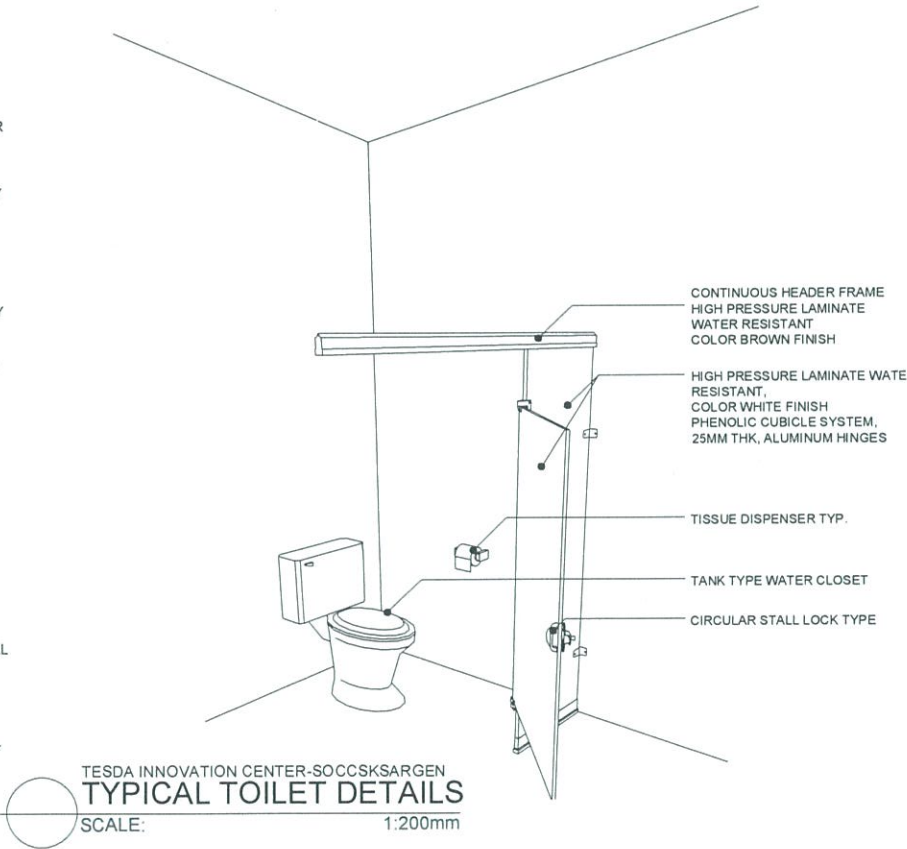
COLD WATER LINE (INTERIOR) - SHALL BE POLYPROPYLENE RANDOM (TYPE 3), HIGH RESISTANCE TO PRESSURE AND TEMPERATURE, CONFORMING TO EN ISO 15874, SIMILAR TO GEORGE FISCHER PP-R PIPE, UNITEC PP-R PIPE OR APPROVED EQUAL.

COLD WATER LINE (EXPOSED) - SHALL BE GALVANIZED STEEL PIPE, SCHEDULE 40, CONFORMING TO ASTM A 53 A 120. SIMILAR TO APO PIPE SCHEDULE 40 OR APPROVED EQUAL.

SOIL, WASTE AND VENT LINES- SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPE CONFIRMING TO ASTM D2729, SIMILAR TO NELTEX SERIES 100 UPVC PIPE OR APPROVED EQUAL.

DOWNSPOUTS- SHALL BE UNPLASTICIZED POLYVINYL, CHLORIDE (UPVC) PIPE CONFORMING TO ASTM D2729. SIMILAR TO NELTEX/ EMERALD/ MOLDEX SERIES 100 UPVC PIPE OR APPROVED EQUAL.

DRAINAGE LINE- SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPE CONFORMING TO ASTM D2729. SIMILAR TO NELTEX/EMERALD/ MOLDEX SERIES 1000 UPVC PIPE OR APPROVED EQUAL.



LEGEND		ABBREVIATION	
-----	SANITARY LINE	LAV	LAVATORY
-----	WATER LINE	KS	KITCHEN SINK
-----	DRAINAGE LINE	VAC	VENT ABOVE CEILING
-----	VENT PIPE	VP	VENT PIPE
---X---	GATE VALVE	VTR/VTC	VENT THRU ROOF/VENT THRU CEILING
--- ---	CHECK VALVE	SS	SOIL STACK/ WASTE PIPE
---M---	WATER METER	AAV	AIR ADMITTANCE VALVE
co ---	FLOOR CLEANOUT	PVC	POLYVINYL CHLORIDE
Ø	DIAMETER	CWL	COLD WATER LINE
ABBREVIATION		FD	FLOOR DRAIN
		SH	SHOWER HEAD
AC	AIR CHAMBER	DD	DECK DRAIN
WC	WATER CLOSET	BD	BALCONY DRAIN
URI	URINAL	mm	MILLIMETER


PLUMBING FIXTURES CONNECTION SIZE SCHEDULE

LEGEND	SYMBOL	MIN. PIPE CONNECTION SIZE MM DIAMETER				REMARKS
		WASTE/ SOIL	VENT	STORM	COLD WATER	
WC	WATER CLOSET	100	50	-	20	TANK TYPE
LAV	LAVATORY	50	50	-	20	-
KS	KITCHEN SINK	50	50	-	20	-
SHO/ SD	SHOWER/ SHOWER DRAIN	50	50	-	20	-
FD	FLOOR DRAIN	50	50	-	-	WITH P-TRAP
HB	HOSE BIBB	-	-	-	20	-


SPECIFICATION

ITEMS	MATERIAL	THICKNESS
WASTE/ SEWAGE LINE	POLYVINYL CHLORIDE (PVC)	SERIES 1000
VENT PIPES	POLYVINYL CHLORIDE (PVC)	SERIES 1000
STORM DRAINAGE LINE (DS)	POLYVINYL CHLORIDE (PVC)	SERIES 1000
RAINWATER COLLECTOR	POLYVINYL CHLORIDE (PVC)	SERIES 1000
WATERLINE (HOT/COLD)	PPR-C	PN 10

FOR APPROVAL PLANS OF
REGIONAL TVET INNOVATION
CENTERS (RTICs) 2023


PROJECT OWNER:

**TECHNICAL EDUCATION
AND
SKILLS DEVELOPMENT
AUTHORITY**
MAIN OFFICE ADDRESS: TESDA COMPLEX, East Service Road BULEX, Taguig City


PROJECT TITLE:
**PROPOSED TESDA
SOCCSKSARGEN
INNOVATION CENTER**
LOCATION: SPRING ALABEL CITY, SARANGGANI PROVINCE

PREPARED & CADD BY:

AR RUNIEL A. MENDOZA
HEAD, PMU-SIPTVETS
ENGINEERING SECTION

MASTER PLUMBER

ENGR. FRANCISCO B. NARAG
ASSISTANT PROFESSOR IV
TESDA ISAT

PROJECT MANAGER

DIR. ENRICO C. BANARIO
PMU-SIPTVETS

PROJECT DIRECTOR:

SEC. SUHARTO T. MANGUDADATU, Ph.D.
PMU-SIPTVETS
SECRETARY, TESDA

SHEET CONTENTS
AS SHOWN

SHEET NO

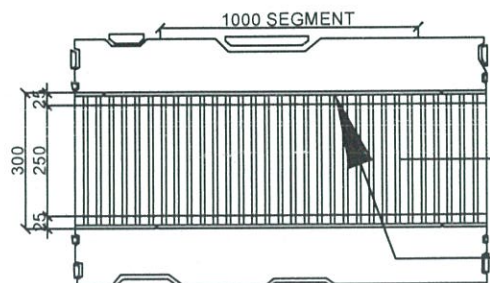
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PIPE SIZE (MM)	FLAT BAR		ROUND BAR (MM)
	LOWER (MM)	UPPER (MM)	
65	4.8 x 32	4.8 x 32	12.7
80	4.8 x 32	4.8 x 32	12.7
100	4.8 x 32	6.4 x 32	15.9
150	4.8 x 32	6.4 x 32	19
200	4.8 x 32	6.4 x 32	25.4

PIPE SIZE (MM)	ROD SIZE (MM)	SIZE OF STEEL FLAT BAR (MM)	PIPE SIZE (MM)	ROD SIZE (MM)	SIZE OF STEEL FLAT BAR (MM)
15	10	3.2x25	65	12	5x32
20	10	3.2x25	80	12	5x32
25	10	3.2x25	100	16	5x32
32	10	3.2x25	125	16	5x32
40	10	3.2x25	150	20	5x40
50	10	3.2x25	200	22	5x50

TESDA INNOVATION CENTER-SOCCSKSARGEN
DETAIL OF HANGERS

SCALE: 1:20mm



PLAN

32X10MM THK. GALV. FLAT BAR GRATING @ 25MM O.C.

40X25X8MM THK. GALV. FLAT BAR FRAMING
25X25X8MM THK. GALV. ANGLE BAR

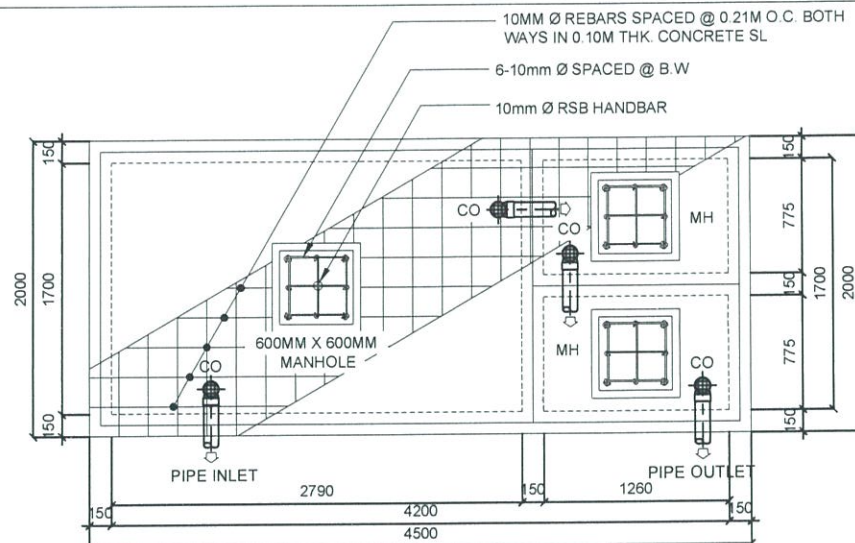
12MMØ ANCHOR BAR WELDED TO ANGLE BAR @ 300MM O.C.

SECTION

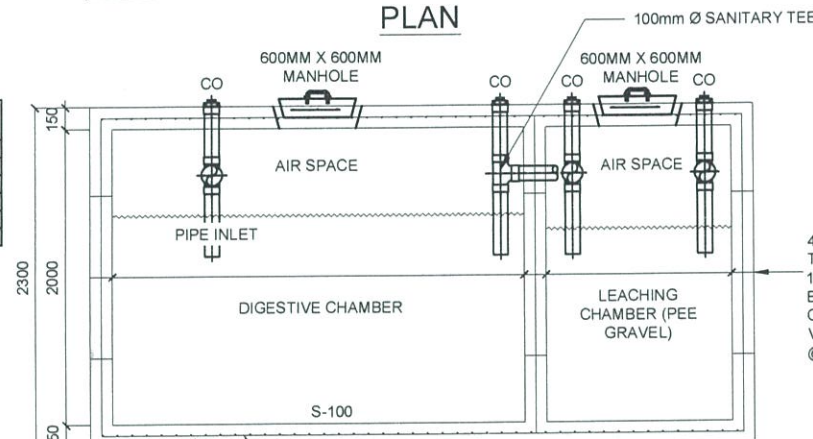
TESDA INNOVATION CENTER-SOCCSKSARGEN

CANAL DETAIL

SCALE: 1:20mm



PLAN



SECTION

TESDA INNOVATION CENTER-SOCCSKSARGEN
SEPTIC TANK DETAILS

SCALE: 1:60mm

CHB WALL OR PARTITION

VENT CWL

REFER TO ARCH. DRAWING

LAVATORY

BRACKET

P-TRAP

P-TRAP CLEAN OUT

CO

CHB WALL OR PARTITION

FIN. FLR. LINE

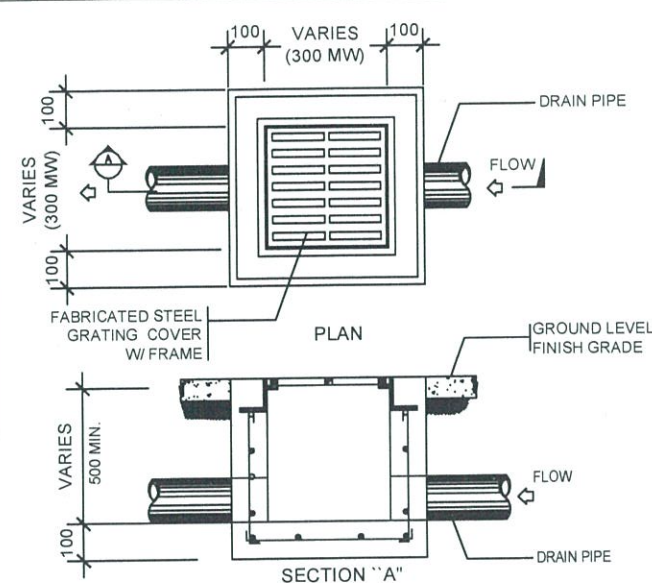
FLOOR FLANGE

VENT PIPE (SEE PLAN FOR EXACT LOCATION)

300

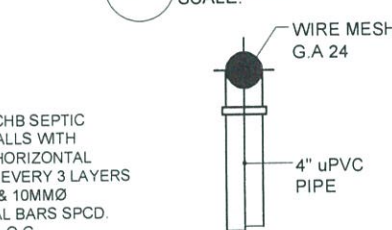
TESDA INNOVATION CENTER-SOCCSKSARGEN
CONNECTION DETAIL OF FIXTURES

SCALE: 1:20mm



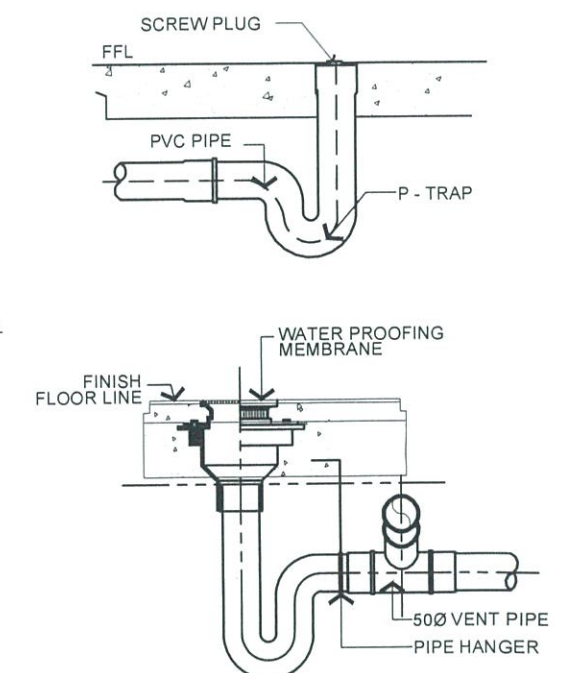
TESDA INNOVATION CENTER-SOCCSKSARGEN
CATCH BASIN DETAILS

SCALE: 1:30mm



TESDA INNOVATION CENTER-SOCCSKSARGEN
VENT THRU ROOF DETAIL

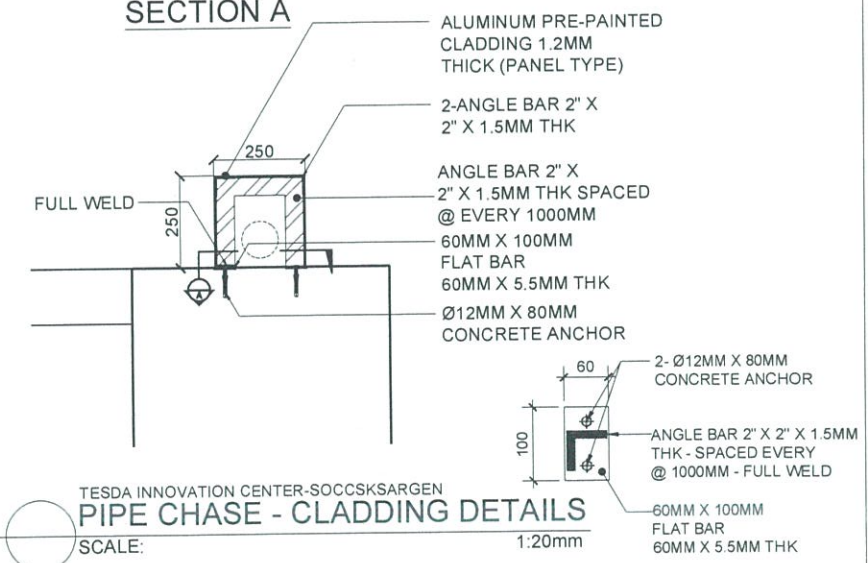
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TESDA INNOVATION CENTER-SOCCSKSARGEN
DETAIL OF CLEAN OUT AND DRAIN

SCALE: 1:30mm

SECTION A



TESDA INNOVATION CENTER-SOCCSKSARGEN
PIPE CHASE - CLADDING DETAILS

SCALE: 1:20mm

FOR APPROVAL PLANS OF
REGIONAL TVET INNOVATION
CENTERS (RTICs) 2023

PROJECT OWNER:
 TECHNICAL EDUCATION
AND
SKILLS DEVELOPMENT
AUTHORITY
MAIN OFFICE ADDRESS: TESDA COMPLEX, East Service Road, Taguig City

PROJECT TITLE:
PROPOSED TESDA
SOCCSKSARGEN
INNOVATION CENTER

LOCATION: SPRING ALABEL CITY, SARANGANI PROVINCE

PREPARED & CADD BY:

AR. RUIEL A. MENDOZA
HEAD, PMU-SIPTVETS
ENGINEERING SECTION

MASTER PLUMBER:

ENGR. FRANCISCO B. NARAG
ASSISTANT PROFESSOR IV
TESDA ISAT

PROJECT MANAGER:

DIR. ENRICO C. BANARIO
PMU-SIPTVETS

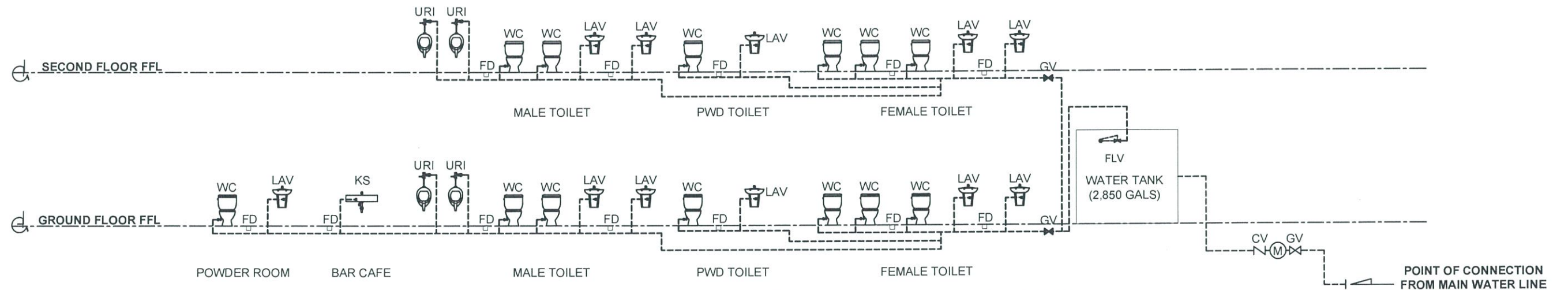
PROJECT DIRECTOR:

SEC. SUHARTO T. MANGUDADATU, Ph.D.
PMU-SIPTVETS
SECRETARY, TESDA

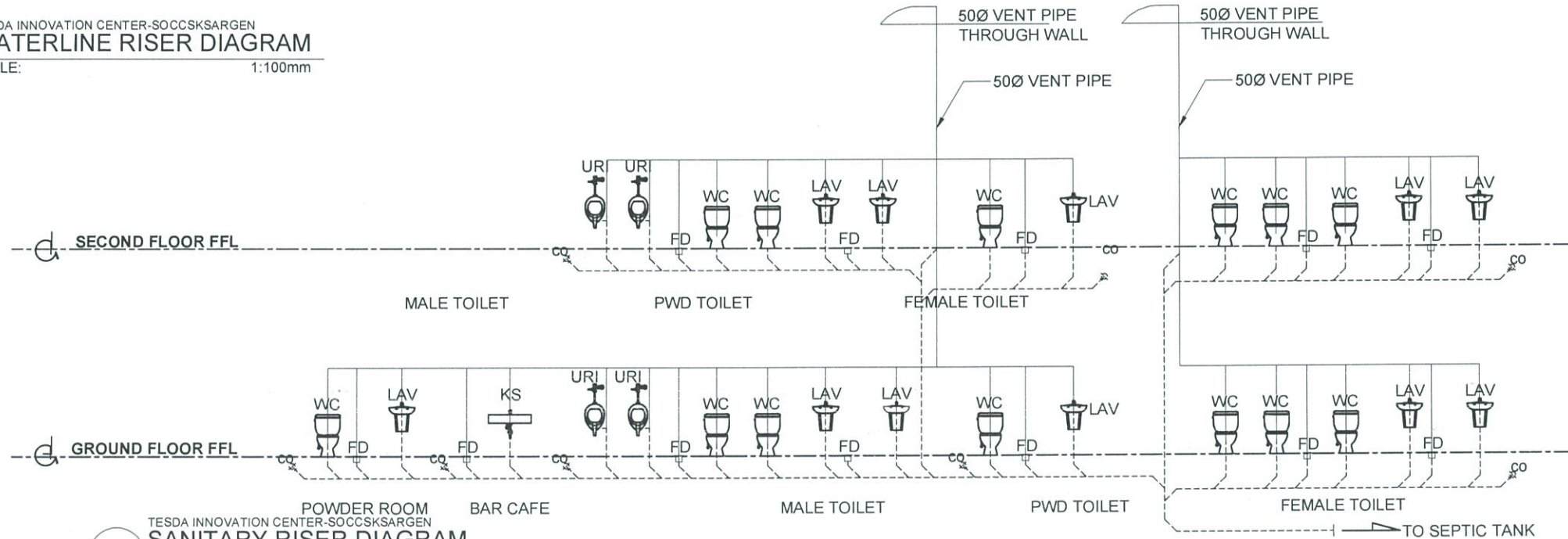
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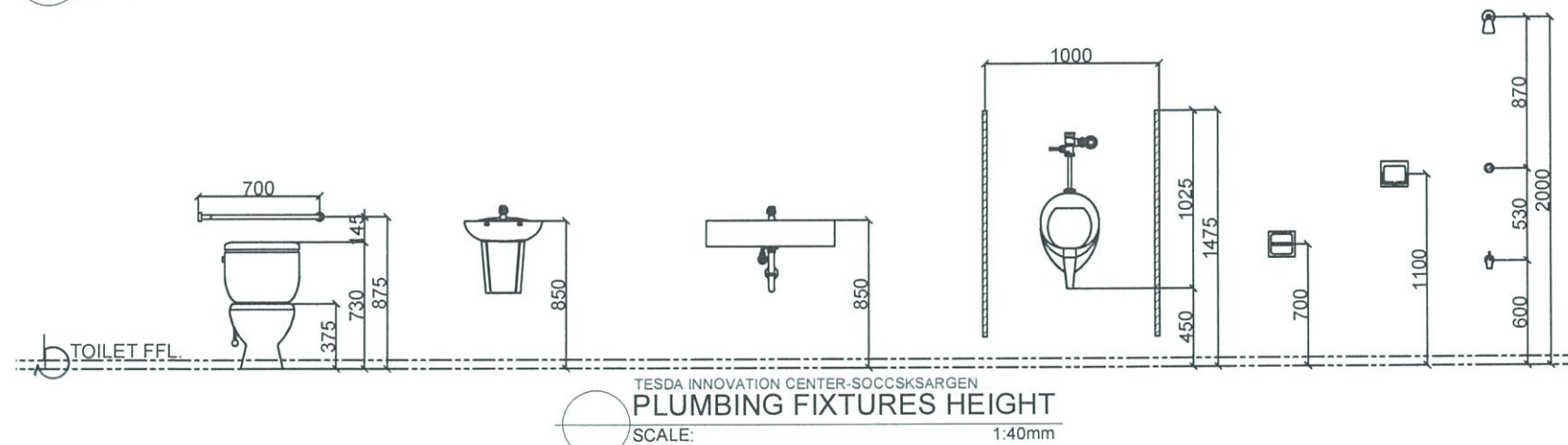
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TESDA INNOVATION CENTER-SOCCSKSARGEN
WATERLINE RISER DIAGRAM
 SCALE: 1:100mm



TESDA INNOVATION CENTER-SOCCSKSARGEN
SANITARY RISER DIAGRAM
 SCALE: 1:100mm



TESDA INNOVATION CENTER-SOCCSKSARGEN
PLUMBING FIXTURES HEIGHT
 SCALE: 1:40mm

**FOR APPROVAL PLANS OF
 REGIONAL TVET INNOVATION
 CENTERS (RTICs) 2023**



**TECHNICAL EDUCATION
 AND
 SKILLS DEVELOPMENT
 AUTHORITY**

MAIN OFFICE ADDRESS: TESDA COMPLEX, Ecol Service Road, SLEX, Taguig City

PROJECT TITLE

**PROPOSED TESDA
 SOCCSKSARGEN
 INNOVATION CENTER**

LOCATION: SPRING ALABEL CITY, SARANGGANI PROVINCE

PREPARED & CADD BY

AR/RUNJIL A. MENDOZA
 HEAD, PMU-SIPTVETS
 ENGINEERING SECTION

MASTER PLUMBER

ENGR. FRANCISCO B. NARAG
 ASSISTANT PROFESSOR IV
 TESDA ISAT

PROJECT MANAGER

DIR. ENRICO C. BANARIO
 PMU-SIPTVETS

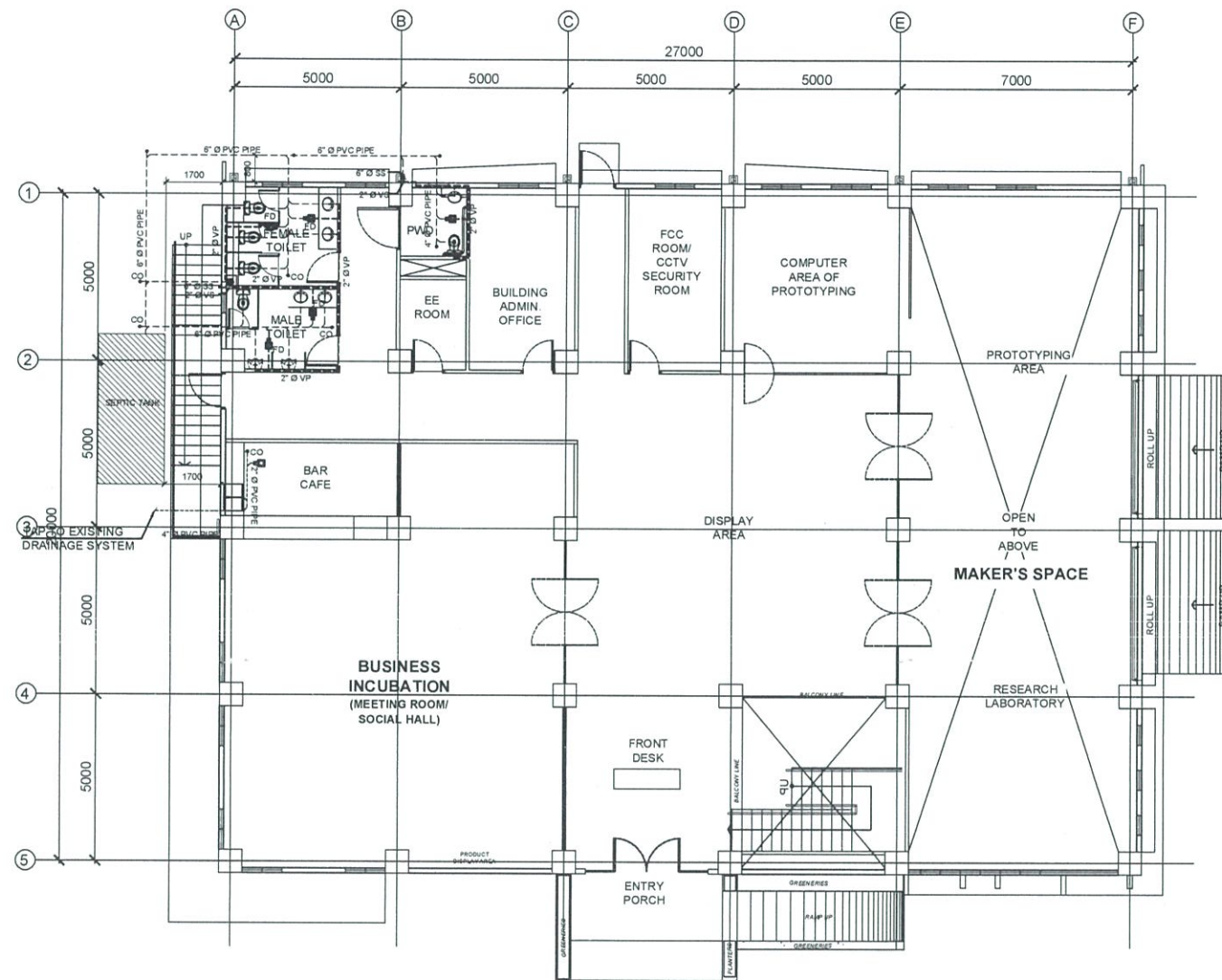
PROJECT DIRECTOR

SEC. SUHARTO T. MANGUDADATU, Ph.D.
 PMU-SIPTVETS
 SECRETARY, TESDA

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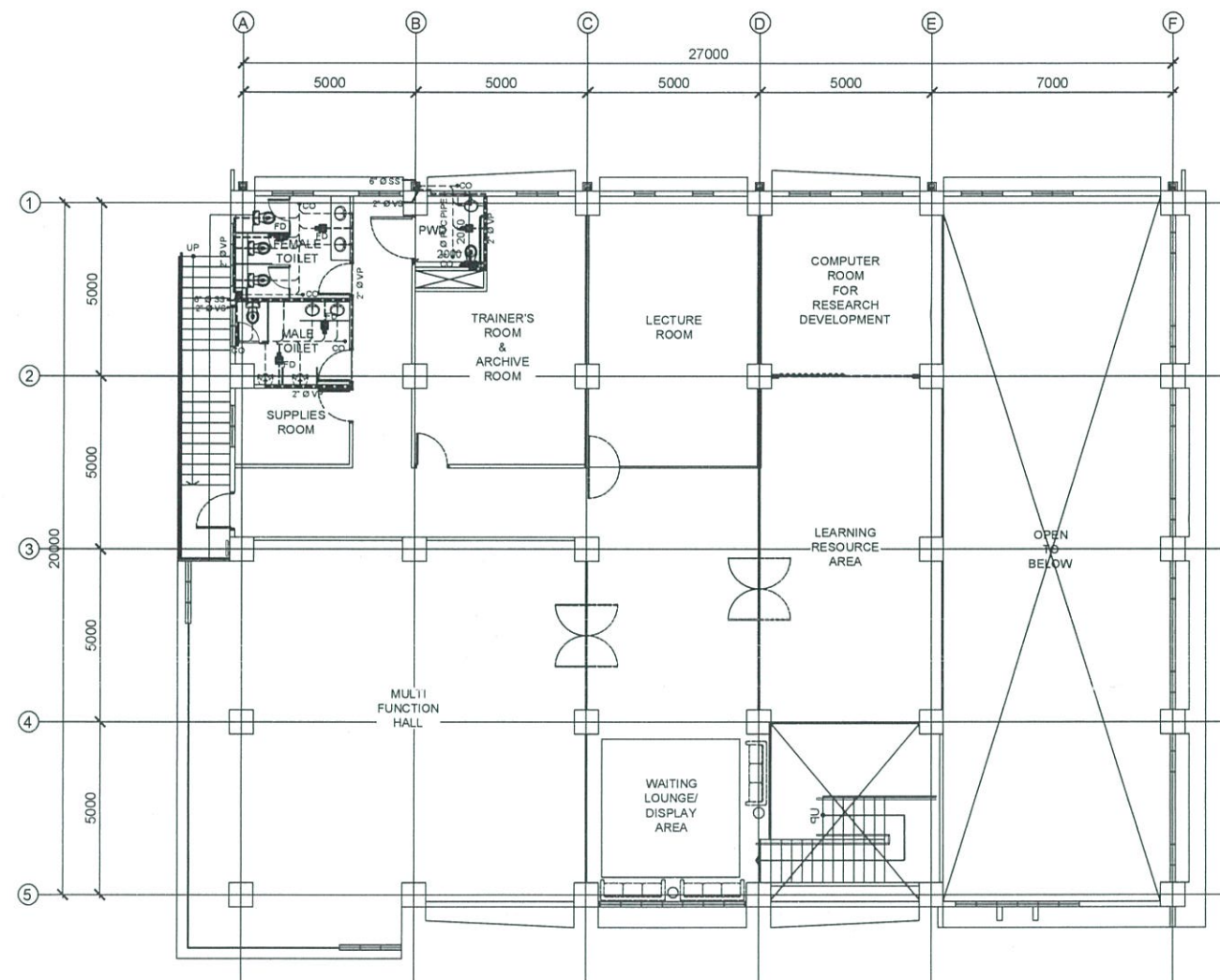
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P
 TESDA INNOVATION CENTER-SOCCSKSARGEN
GROUND FLOOR SANITARY LAYOUT
 SCALE 1:200MTS

**FOR APPROVAL PLANS OF
REGIONAL TVET INNOVATION
CENTERS (RTICs) 2023**

PROJECT OWNER  TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY <small>MAIN OFFICE ADDRESS: TESDA COMPLEX, East Service Road SLEX, Taguig City</small>	PROJECT TITLE PROPOSED TESDA SOCCSKSARGEN INNOVATION CENTER <small>LOCATION: SPRING ALABE, CITY: SARANGANI PROVINCE</small>	PREPARED & CADD BY  <small>AR. RUIEL A. MENDOZA HEAD, PMU-SIPTVETS ENGINEERING SECTION</small>	MASTER PLUMBER  <small>ENGR. FRANCISCO B. NARAG ASSISTANT PROFESSOR IV TESDA ISAT</small>	PROJECT MANAGER  <small>DIR. ENRICO C. BANARIO PMU-SIPTVETS</small>	PROJECT DIRECTOR  <small>SEC. SUHARTO T. MANGUDADATU, Ph.D. PMU-SIPTVETS SECRETARY, TESDA</small>	SHEET CONTENTS AS SHOWN	SHEET NO. P- 4
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P
TESDA INNOVATION CENTER-SOCCSKSARGEN
SECOND FLOOR SANITARY LAYOUT
 SCALE 1:200MTS

**FOR APPROVAL PLANS OF
REGIONAL TVET INNOVATION
CENTERS (RTICs) 2023**

PROJECT OWNER:

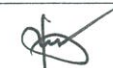
**TECHNICAL EDUCATION
AND
SKILLS DEVELOPMENT
AUTHORITY**
MAIN OFFICE ADDRESS: TESDA COMPLEX, East Service Road SLEX, Taguig City


PROJECT TITLE:
**PROPOSED TESDA
SOCCSKSARGEN
INNOVATION CENTER**
LOCATION: SPRING ALABEL CITY, SARANGGANI PROVINCE

PREPARED & CADD BY:

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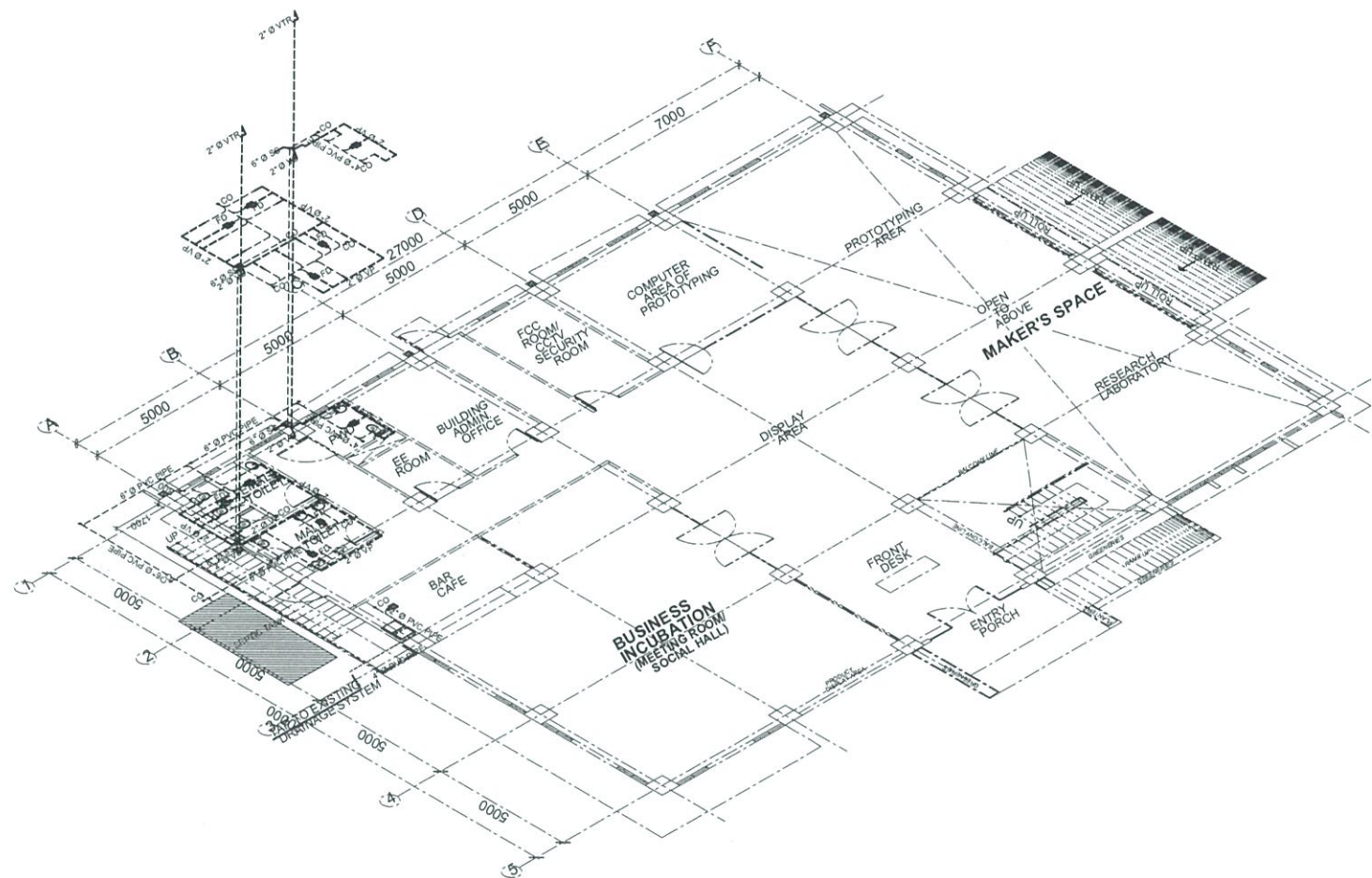
ENGR. FRANCISCO B. NARAG
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PROJECT MANAGER:

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PROJECT DIRECTOR:

SEC. SUHARTO T. MANGUDADATU, Ph.D.
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 SECRETARY, TESDA





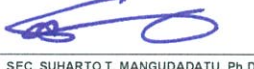
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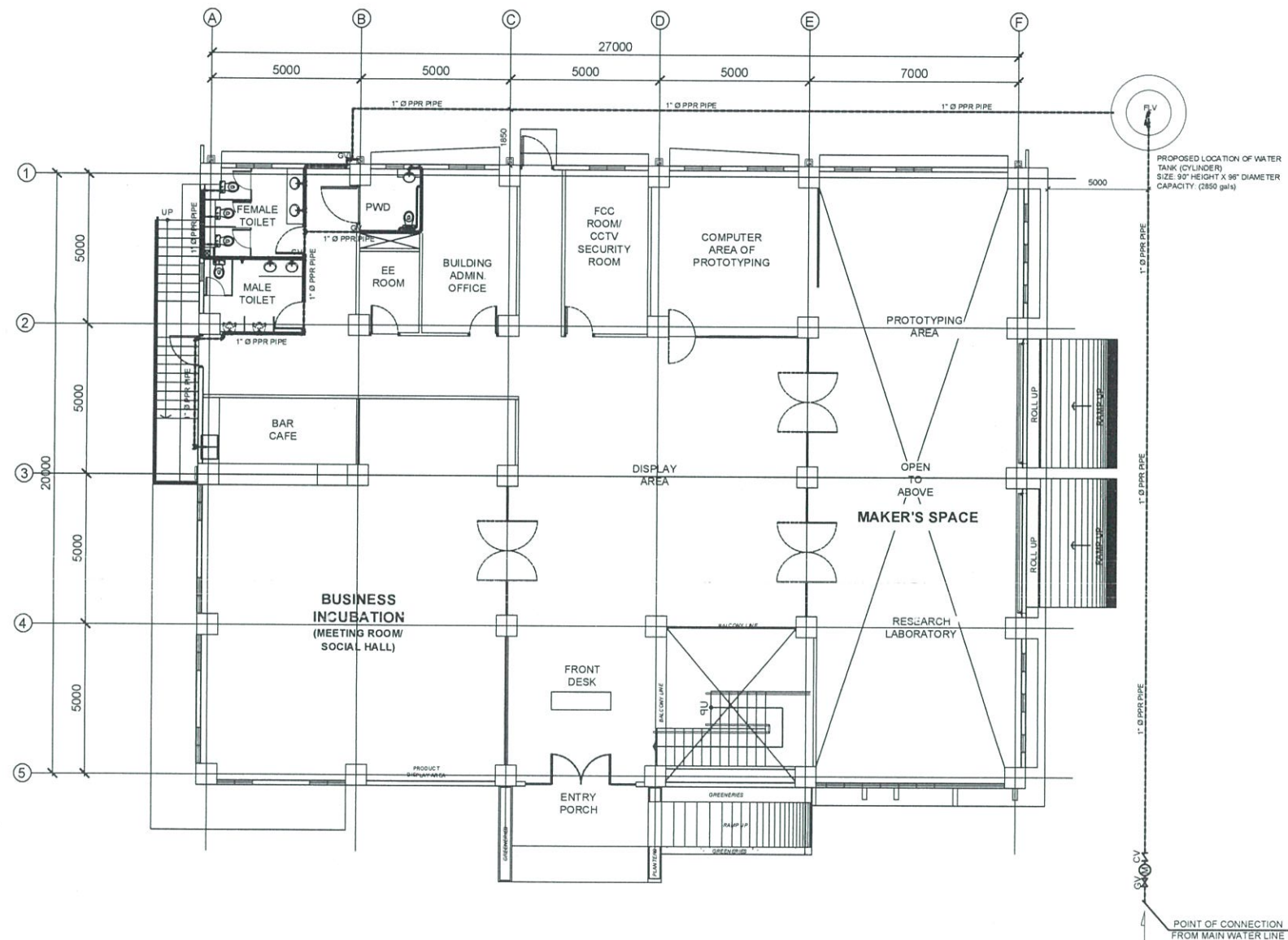
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P
 TESDA INNOVATION CENTER-SOCCSKSARGEN
SANITARY ISOMETRIC LAYOUT
 SCALE 1:200MTS

**FOR APPROVAL PLANS OF
REGIONAL TVET INNOVATION
CENTERS (RTICs) 2023**

PROJECT OWNER:  TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY <small>MAIN OFFICE ADDRESS: TESDA COMPLEX, E.M.T. Service Road, SLEX, Taguig City</small>	PROJECT TITLE: PROPOSED TESDA SOCCSKSARGEN INNOVATION CENTER <small>LOCATION: SPRING ALABEL, CITY, SARANGGANI PROVINCE</small>	PREPARED & CADD BY:  <small>AR. RUMEL A. MENDOZA HEAD, PMU-SIPTVETS ENGINEERING SECTION</small>	MASTER PLUMBER:  <small>ENGR. FRANCISCO B. NARAG ASSISTANT PROFESSOR IV TESDA ISAT</small>	PROJECT MANAGER:  <small>DIR. ENRICO C. BANARIO PMU-SIPTVETS</small>	PROJECT DIRECTOR:  <small>SEC. SUHARTO T. MANGUDADATU, Ph.D. PMU-SIPTVETS SECRETARY, TESDA</small>	SHEET CONTENTS: AS SHOWN	SHEET NO. P- 6
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P TESDA INNOVATION CENTER-SOCCSKSARGEN
GROUND FLOOR WATER LINE LAYOUT
SCALE 1:200MTS

**FOR APPROVAL PLANS OF
REGIONAL TVET INNOVATION
CENTERS (RTICs) 2023**

PROJECT OWNER
**TECHNICAL EDUCATION
AND
SKILLS DEVELOPMENT
AUTHORITY**
MAIN OFFICE ADDRESS: TESDA COMPLEX, East Service Road SLEX, Taguig City

PROJECT TITLE
**PROPOSED TESDA
SOCCSKSARGEN
INNOVATION CENTER**
LOCATION: SPRING ALABEL CITY, SARANGANI PROVINCE

PREPARED & CADD BY
AR. RUIEL A. MENDOZA
HEAD, PMU-SIPTVETS
ENGINEERING SECTION

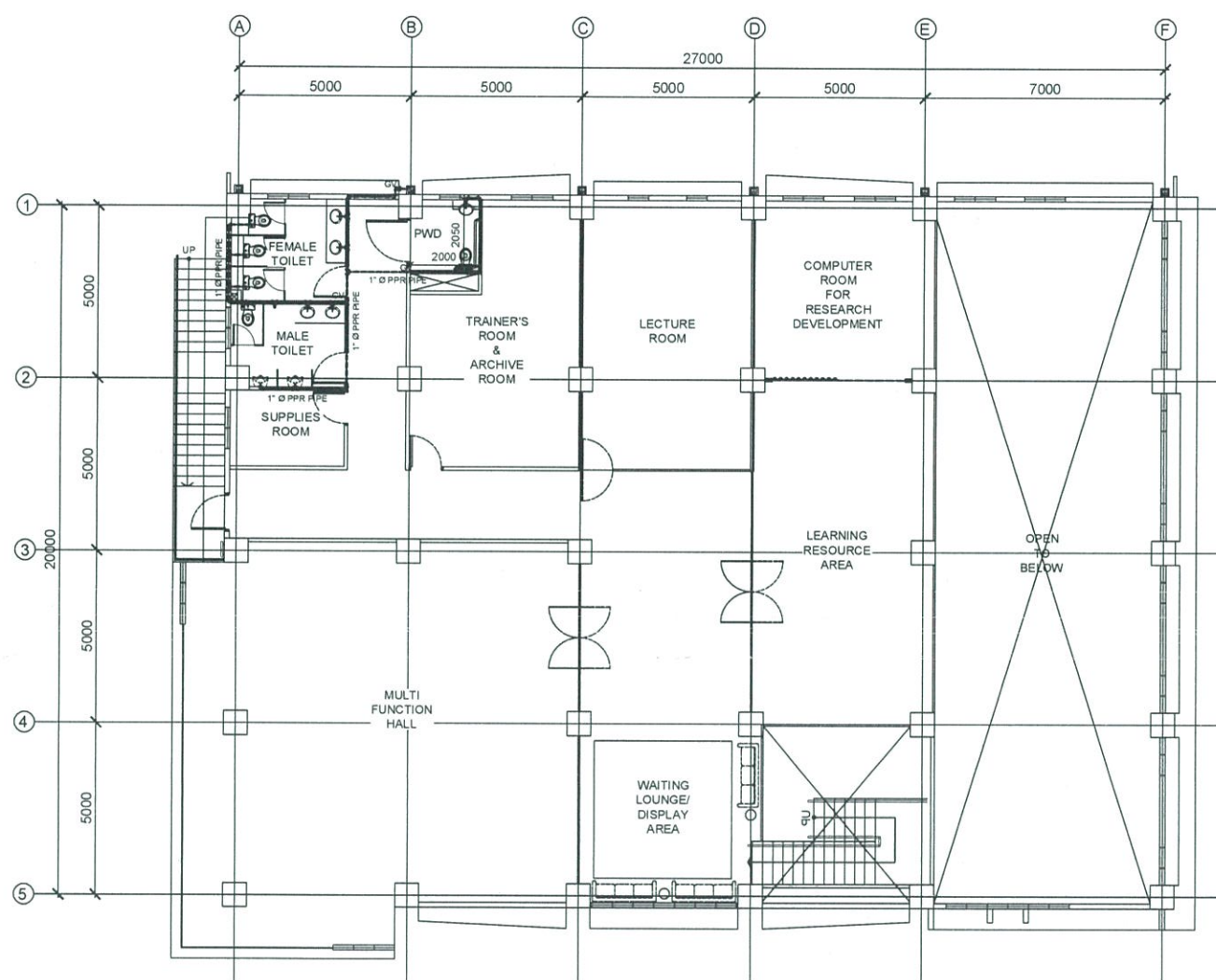
MASTER PLUMBER
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ASSISTANT PROFESSOR IV
TESDA ISAT

PROJECT MANAGER
DIR. ENRICO C. BANARIO
PMU-SIPTVETS

PROJECT DIRECTOR
SEC. SUHARTO T. MANGUDADATU, Ph.D.
PMU-SIPTVETS
SECRETARY, TESDA

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P
 TESDA INNOVATION CENTER-SOCCSKSARGEN
SECOND FLOOR WATER LINE LAYOUT
 SCALE 1:200MTS

**FOR APPROVAL PLANS OF
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PROJECT OWNER:

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AND
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AUTHORITY**
MAIN OFFICE ADDRESS: TESDA COMPLEX, Ecol Service Road, SLEX, Taguig City

PROJECT TITLE:
**PROPOSED TESDA
SOCCSKSARGEN
INNOVATION CENTER**
LOCATION: SPRING ALABEL CITY, SARANGGANI PROVINCE


PREPARED & CADD BY:

 AR. JUNIELA MENDOZA
 HEAD, PMU-SIPTVETS
 ENGINEERING SECTION

MASTER PLUMBER:

 ENGR. FRANCISCO B. NARAG
 ASSISTANT PROFESSOR IV
 TESDA ISAT

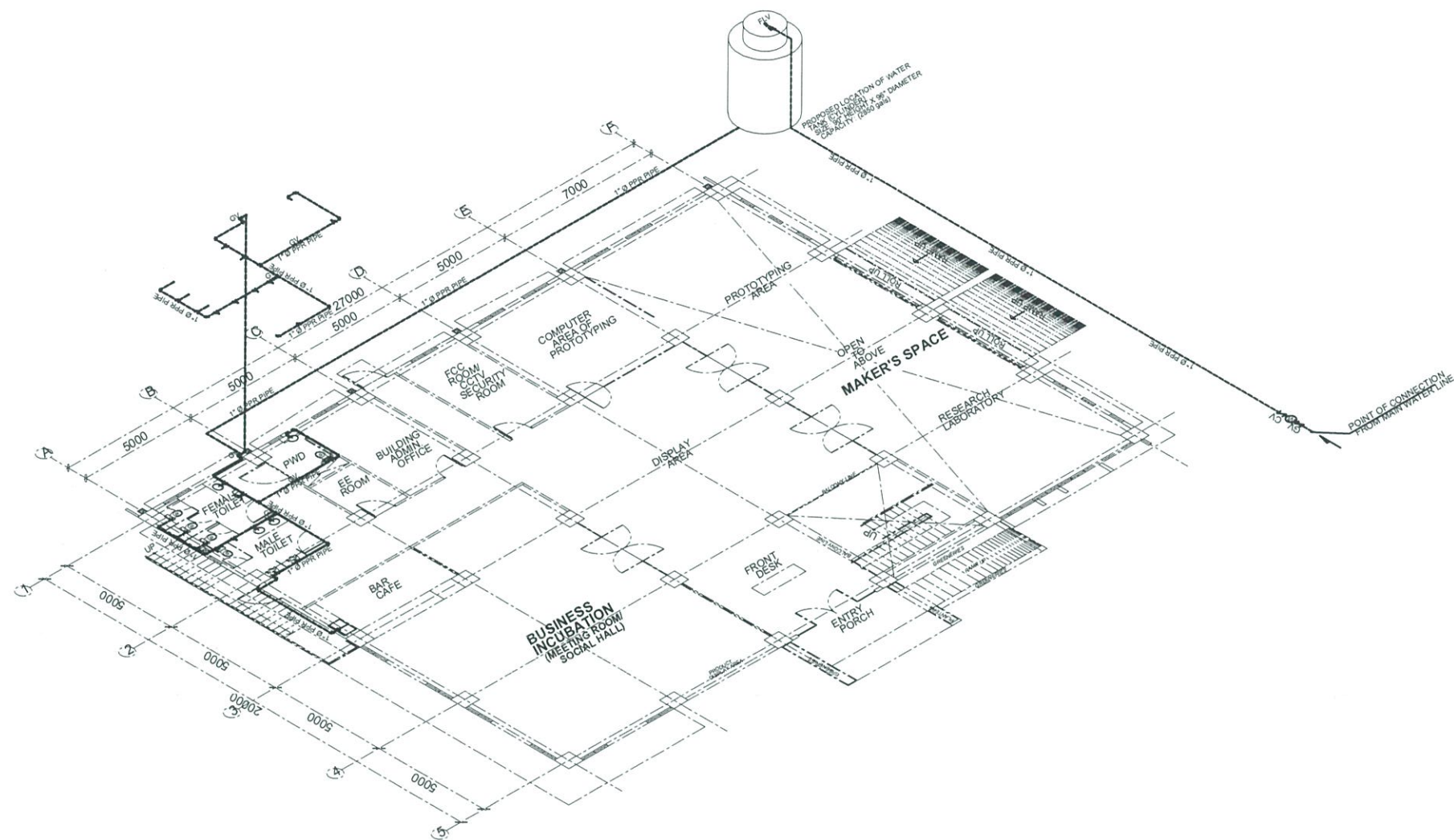
PROJECT MANAGER:

 DIR. ENRICO C. BANARIO
 PMU-SIPTVETS

PROJECT DIRECTOR:

 SEC. SUHARTO T. MANGUDADATU, Ph.D.
 PMU-SIPTVETS
 SECRETARY, TESDA

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P
 TESDA INNOVATION CENTER-SOCCSKSARGEN
WATER LINE ISOMETRIC LAYOUT
 SCALE 1:200MTS

**FOR APPROVAL PLANS OF
REGIONAL TVET INNOVATION
CENTERS (RTICs) 2023**



**TECHNICAL EDUCATION
AND
SKILLS DEVELOPMENT
AUTHORITY**

MAIN OFFICE ADDRESS: TESDA COMPLEX, 6th Service Road, SLEX, Taguig City

PROJECT TITLE

**PROPOSED TESDA
SOCCSKSARGEN
INNOVATION CENTER**

LOCATION: SPRING ALABEL CITY, SARANGGANI PROVINCE

PREPARED & CADD BY

[Signature]
AR. RUMEL A. MENDOZA
HEAD, PMU-SIPTVETS
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MASTER PLUMBER

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ENGR. FRANCISCO B. NARAG
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DIR. ENRICO C. BANARIO
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SEC. SUHARTO T. MANGUDADATU, Ph.D.
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SECRETARY, TESDA

SHEET CONTENTS
AS SHOWN

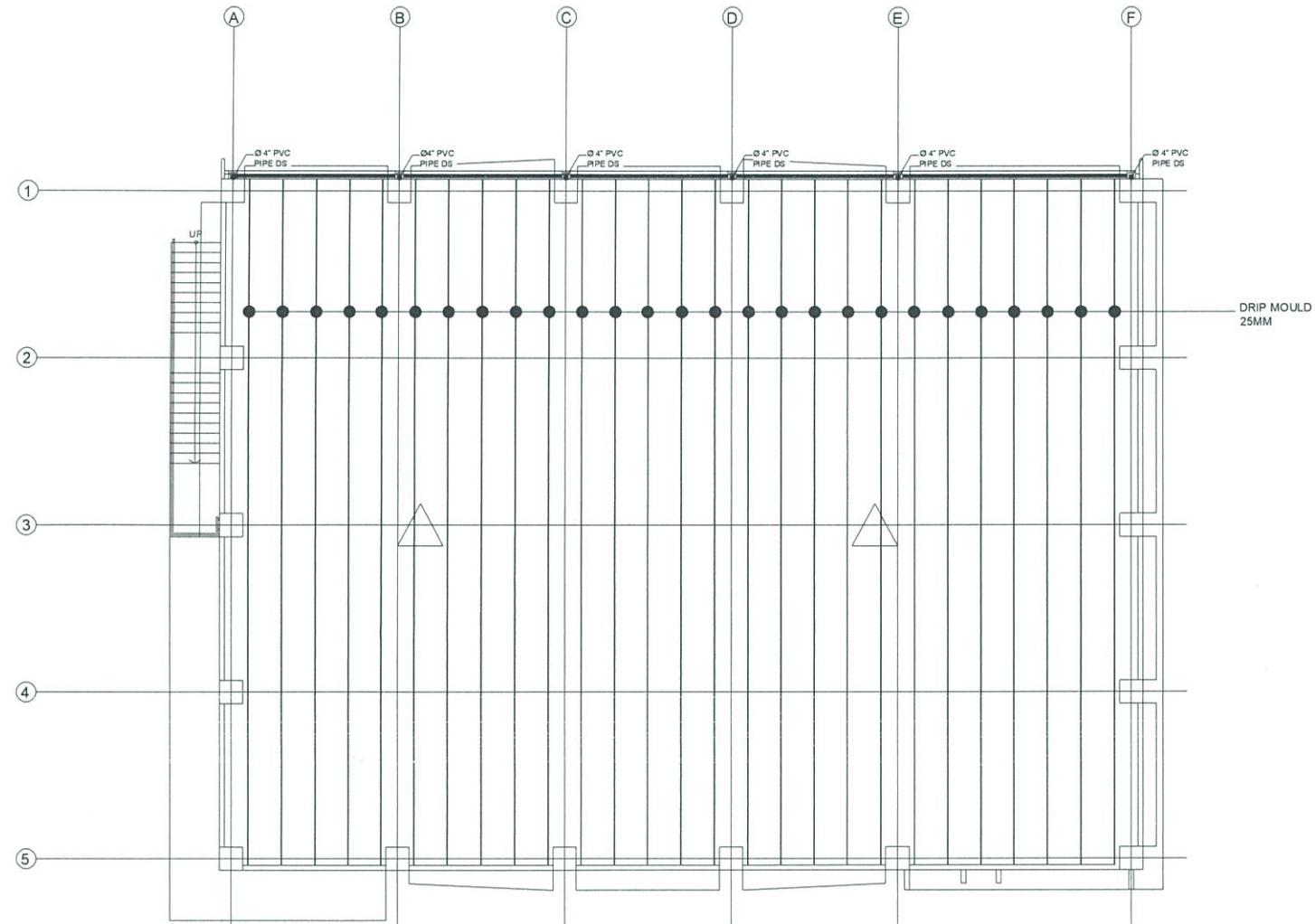
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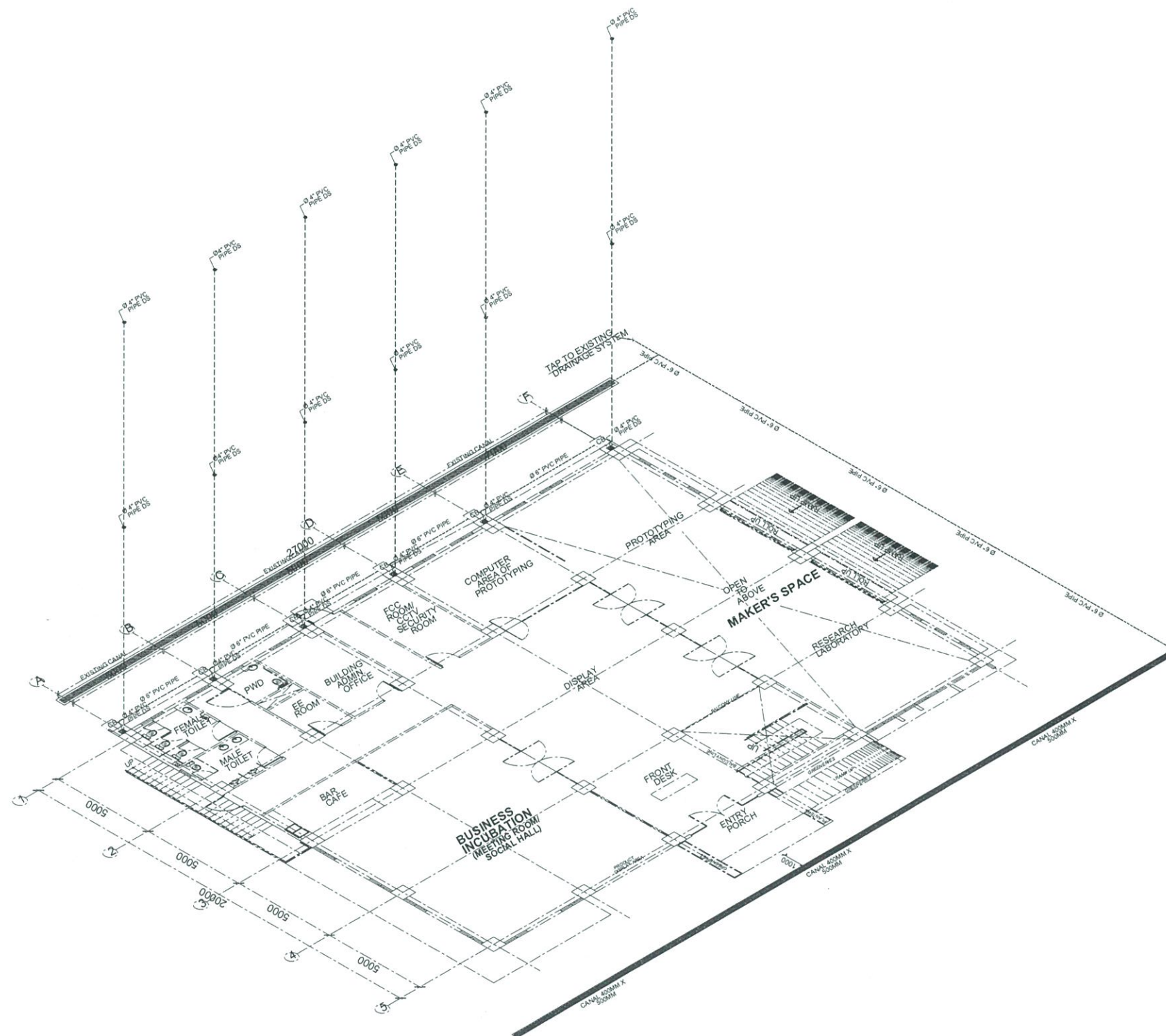




P TESDA INNOVATION CENTER-SOCCSKSARGEN
ROOF DECK STORM WATER DRAINAGE LAYOUT
 SCALE 1:200MTS


**FOR APPROVAL PLANS OF
 REGIONAL TVET INNOVATION
 CENTERS (RTICs) 2023**

PROJECT OWNER:  TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY <small>MAIN OFFICE ADDRESS: TESDA COMPLEX, E. Amador Road, SLEX, Taguig City</small>	PROJECT TITLE: PROPOSED TESDA SOCCSKSARGEN INNOVATION CENTER <small>LOCATION: SPRING ALABEL CITY, SAKINGANI PROVINCE</small>	PREPARED & CADD BY:  <small>AR. JUNIEL A. MENDOZA HEAD, PMU-SIPTVETS ENGINEERING SECTION</small>	MASTER PLUMBER:  <small>ENGR. FRANCISCO B. NARAG ASSISTANT PROFESSOR IV TESDA ISAT</small>	PROJECT MANAGER:  <small>DIR. ENRICO C. BANARIO PMU-SIPTVETS</small>	PROJECT DIRECTOR:  <small>SEC. SUHARTO T. MANGUDADATU, Ph.D. PMU-SIPTVETS SECRETARY, TESDA</small>	SHEET CONTENTS: AS SHOWN	SHEET NO. P- 12
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P TESDA INNOVATION CENTER-SOCCSKSARGEN
STORM WATER DRAINAGE ISOMETRIC LAYOUT
 SCALE 1:200MTS

**FOR APPROVAL PLANS OF
 REGIONAL TVET INNOVATION
 CENTERS (RTICs) 2023**


PROJECT OWNER

**TECHNICAL EDUCATION
 AND
 SKILLS DEVELOPMENT
 AUTHORITY**
MAIN OFFICE ADDRESS: TESDA COMPLEX, East Service Road, SLZ, Taguig City


PROJECT TITLE
**PROPOSED TESDA
 SOCCSKSARGEN
 INNOVATION CENTER**
LOCATION: SPRING, ALABEL CITY, SARANGGANI PROVINCE

PREPARED & CADD BY

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