

DRAWING INDEX

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GENERAL NOTES

- WORKS SHALL BE IN CONCEALED CONDUIT/TRUNKING UNLESS OTHERWISE SPECIFIED.
- THE POSITION OF ALL ELECTRONICS EQUIPMENT AS SHOWN IN THE DRAWINGS ARE INDICATE ONLY. THE EXACT POSITIONS SHALL BE DETERMINED ON SITE.
- THE SPECIALTY CONTRACTOR SHALL BE RESPONSIBLE FOR THE LABELING OF ALL EQUIPMENT THROUGHOUT THE INSTALLATION.
- THE SPECIALTY CONTRACTOR SHALL BE RESPONSIBLE TO LIAISE WITH THE LOCAL GOVERNMENT FOR ALL CLEARANCES, CABLE JOINTING, AND TESTING FOR THE INSTALLATION.
- THE OVERALL RESISTANCE FOR THE EARTHING SYSTEM (ELECTRICAL) SHALL COMPLY WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL AND ELECTRONICS CODE.
- THE SPECIALTY CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING OF ALL CABLE/CONDUIT PENETRATION OPENINGS BETWEEN FLOOR SLAB AND WALLS ETC. WITH APPROVED FIRE RATING MATERIAL/SEALANT.
- THE SPECIALTY CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENTAL GROUNDING/ALL METAL PARTS COMPLETED BY THE OTHER CONTRACTORS TO THE NEAREST BONDING TO ELECTRICAL PANEL.
- THE SPECIALTY CONTRACTOR SHALL FINISH ALL NECESSARY LABOR, MATERIALS AND EQUIPMENT FOR SM/FACTORY CONTRACTOR OF THE ENTIRE INSTALLATION FULLY COORDINATED SHOWN DRAWINGS IN THE SPECIFICATION AND/OR SHOWN ON DRAWINGS.
- ALL LOCATIONS OF EQUIPMENT AND CABLE ROUTES SHOWN ON THE DRAWING ARE INDICATIVE ONLY. THE EXACT LOCATIONS MUST BE COORDINATED ON SITE BEFORE INSTALLATION FULLY COORDINATED SHOWN DRAWINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE COMMENCEMENT OF WORK.
- CABLES FOR ESSENTIAL CIRCUITS SUCH AS EMERGENCY LIGHTING CIRCUITS AND FIRE FIGHTING EQUIPMENT CIRCUITS ETC SHALL NOT BE DRAWN INTO THE SAME CONDUIT INTENDED FOR NORMAL CIRCUITS AS PER PEC.
- THE SPECIALTY CONTRACTOR SHALL LIAISE WITH OTHER CONTRACTOR TO ENSURE THAT POWER SUPPLIES FOR ALL EQUIPMENT ARE ADEQUATELY PROVIDED TO SUIT THE SYSTEM REQUIREMENTS.
- ALL ELECTRONICS EQUIPMENT LOCATIONS SHOWN ARE INDICATIVE ONLY AND THE SPECIALTY CONTRACTOR MUST COORDINATE WITH THE ARCHITECT AND/OR THE INTERIOR DESIGNER, AS WELL AS EQUIPMENT SUPPLIERS.
- THE SPECIALTY CONTRACTOR SHALL OBTAIN APPROVAL FROM STRUCTURAL ENGINEERS FOR PENETRATION THROUGH FLOOR SLABS AND FLOOR SLABS PRIOR TO CONSTRUCTION.
- ALL CONDUIT LAYOUT AND INSTALLATION METHODS SHALL BE IDENTICAL IN ALL ROOMS AS MUCH AS POSSIBLE.
- TESTING CERTIFICATES SHALL BE PROVIDED BY THE SPECIALTY CONTRACTOR PRIOR TO FINAL TURN OVER.
- ALL MATERIALS/CABLES TO BE USED AND INSTALLATION METHOD SHALL COMPLY WITH THE TECHNICAL SPECIFICATION, STANDARDS, CODE OF PRACTICE AND AUTHORITY REQUIREMENT.
- THE SPECIALTY CONTRACTOR IS REQUIRED TO SUBMIT DETAILS OF FINAL ARRANGEMENT AND DIMENSIONAL LAYOUT OF ALL ITEMS EQUIPMENT IN RESPECTIVE ROOMS TO SUIT SITE CONDITIONS, ETC. FOR REVIEW BY THE CONSULTANT BEFORE COMMENCEMENT OF INSTALLATION.
- ALL ELECTRONICS EQUIPMENT & ACCESSORIES THAT ARE EXPOSED OR LESS THAN 2.0M AWAY FROM WATER SOURCES SHALL BE OF WATERPROOF TYPE.

ABBREVIATIONS

ALIAS	AUXILIARY	IBF	INTERMEDIATE DISTRIBUTION FRAME
CCTV	CLOSED CIRCUIT TELEVISION	EMAC	EMERGENCY VOICE ALARM COMMUNICATION
FA	FIRE ALARM	PA	PUBLIC ADDRESS
FACP	FIRE ALARM CONTROL PANEL	SMS	SECURITY MANAGEMENT SYSTEM
FIDS	FIRE DETECTION AND ALARM SYSTEM	SIP	SHIELDED TWISTED PAIR

LEGEND & SYMBOLS

FIRE DETECTION & ALARM SYSTEM	
SYMBOLS	DESCRIPTION
	FIRE ALARM SPEAKER WITH STROBE LIGHT
	ADDRESSABLE INPUT MODULE
	ADDRESSABLE OUTPUT MODULE
	FIRE ALARM CONTROL PANEL
	WATER FLOW SWITCH
	HEAT DETECTOR
	PULVERBOX SMOKE DETECTOR
	PULVERBOX FLAME DETECTOR
	PULVERBOX COMBINATION ULTRAVIOLET INFRARED

PUBLIC ADDRESS SYSTEM

	6W CEILING MOUNTED SPEAKER		PULVERBOX
	WALL MOUNTED SPEAKER		UNINTERRUPTIBLE POWER SUPPLY

SECURITY MANAGEMENT SYSTEM

	CARD READER		INPUT MODULE
	BREAK GLASS (EMERGENCY EXIT)		DOOR CONTACT
	SECURED DOOR - 1		PULVERBOX
	SECURED DOOR - 2		UNINTERRUPTIBLE POWER SUPPLY
	ACCESS GATHERING PANEL		ELECTRO-MAGNETIC LOCK
	CARD READER MODULE		

STRUCTURED CABLING SYSTEM

	DATA POINT UNIVERSAL INFORMATION OUTLET (FLOOR-MOUNTED)		INTERMEDIATE DISTRIBUTION FRAME
	DATA POINT UNIVERSAL INFORMATION OUTLET (FLOOR-MOUNTED)		WIRELESS ACCESS POINT
	SINGLE PORT INFORMATION OUTLET FOR TELEPHONE (WALL-MOUNTED)		CABLE TRUNKING
	SINGLE PORT INFORMATION OUTLET FOR DATA (WALL-MOUNTED)		CABLE LADDER

COMMUNITY ANTENNA TELEVISION SYSTEM (ROUGH-IN)

	CABLE OUTLET		PULVERBOX
			250mm(W) X 250mm(H) X 150mm(D)

CLOSED CIRCUIT TELEVISION SYSTEM

	P-BASED FIXED CAMERA		SECURITY MANAGEMENT SYSTEM PANEL
	CEILING/WALL MOUNTED (VISUAL PROOF) CAMERA		MONITOR
	P-N - DENOTES WITH WEATHER PROOF ENCLOSURE		REFRIGBOX
	P-TZ - DENOTES PAN-TILT-ZOOM		PULVERBOX
	D - DENOTES DOME TYPE		UNINTERRUPTIBLE POWER SUPPLY
	PSC - DENOTES DOME TYPE		PAGE SWITCH

OWNER

BCDA
Bicol Development Authority
Development Authority

RYAN S. GALURA
Dir., ESSD Desk

NATIONAL ACADEMY OF SPORTS
National Academy of Sports

JOSEPHINE JOY REYES
Executive Director

CONSTRUCTION MANAGEMENT AND SUPERVISION

FILIPINAS DRAYO CORPORATION
Consulting Engineering & Architectural Services

JOSEPH ROMMEL D.C. LUTICAN
Senior Project Manager

GENERAL CONTRACTOR

HILMARC'S CONSTRUCTION CORPORATION
1938 E. RIZAL BLVD. SUITE 200, CALOOCAN CITY
TEL. NO. 0244 185

ENGINEER

REG. No. _____
TRN No. _____

PTR No. _____
Date Issued: _____

PROJECT TITLE

NATIONAL ACADEMY OF SPORTS (PHASE 1)
LOCATION: NCC, MUNICIPALITY OF CAPAS, TARLAC

SHEET CONTENTS

ELECTRONICS SERVICES
DRAWING INDEX, GENERAL NOTES, ABBREVIATIONS,
AND LEGENDS & SYMBOLS

REVISIONS: PROPOSED SCHEMATIC FOR ROAD

No.	Description	Date	Checked	Authorized
1	ADDITIONAL BLOCKS FOR LPG FLAME DETECTOR	12NOV21		

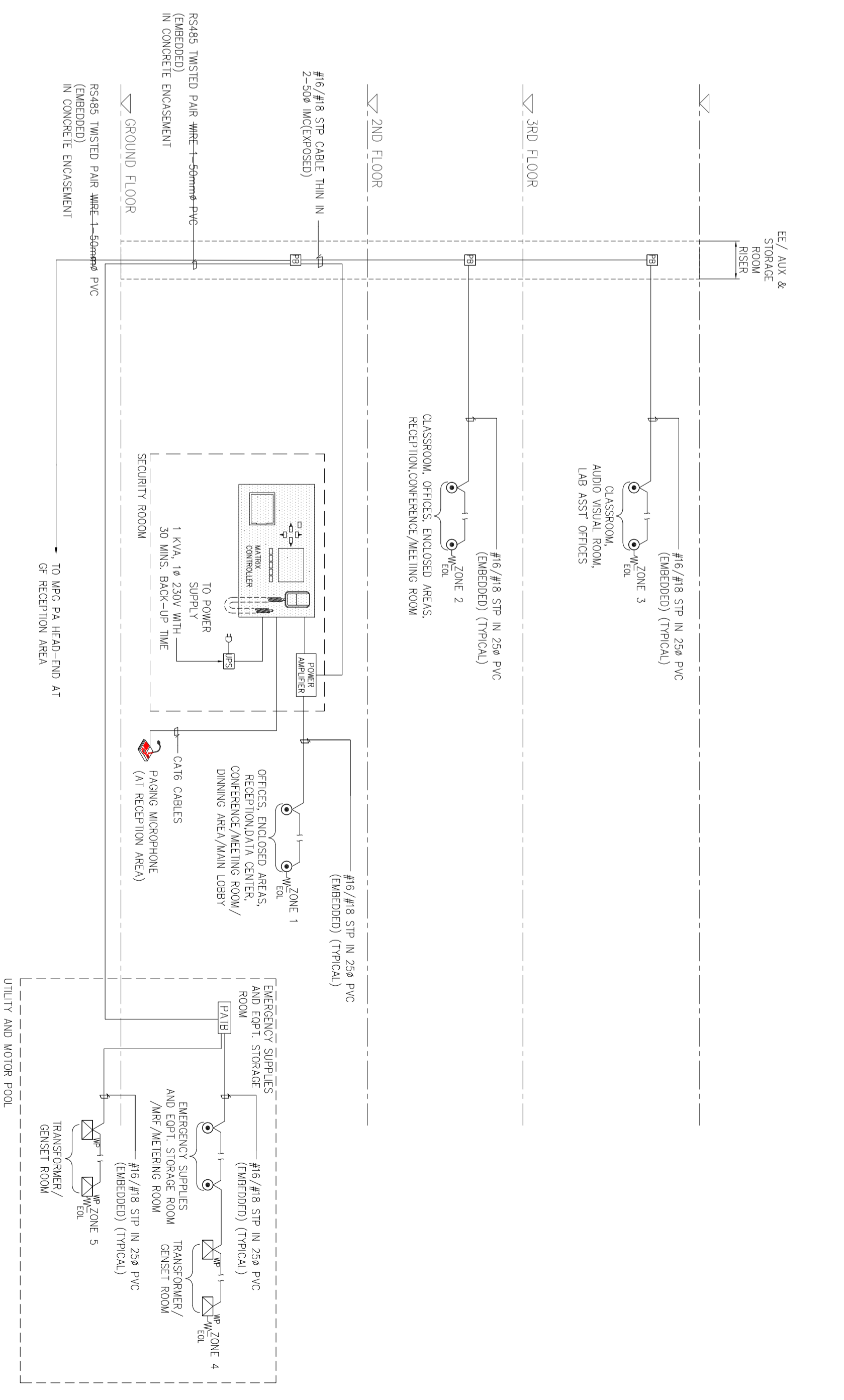
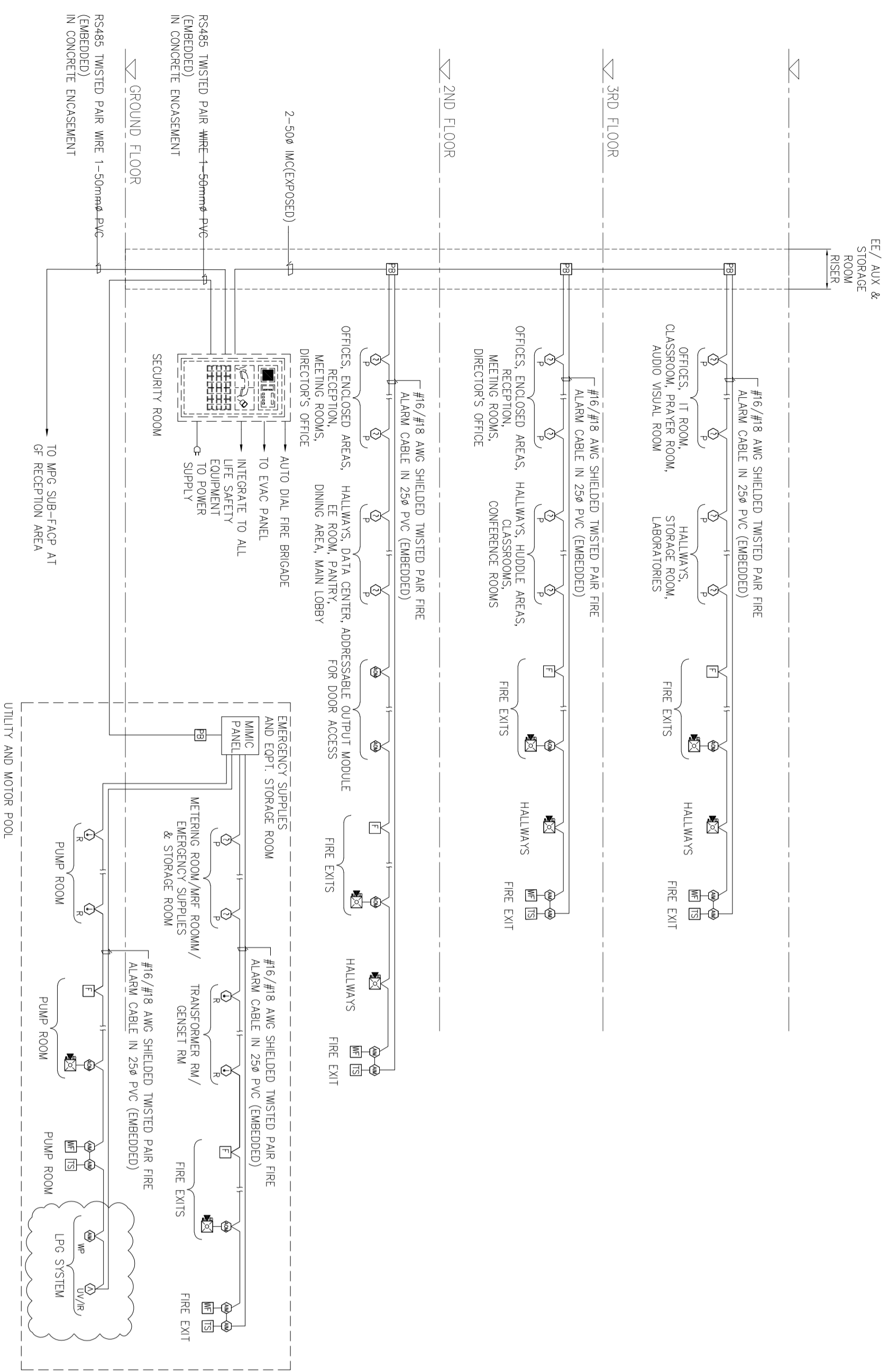
SHEET NO.

ECO-01

Drawn By: H2M
Checked By: ECC/EVJ
Date Issued: _____

- NOTES:
1. THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE A GENERAL CONCEPT AND THE PRINCIPLE OF THE PROPOSED FIRE DETECTION AND ALARM SYSTEM.
 2. THE QUANTITY AND LOCATION OF DEVICES ARE INDICATING ONLY, REFER TO FLOOR PLAN LAYOUT FOR FINAL LOCATION AND QUANTITY.
 3. IF SEPARATE POWER SUPPLY LINES ARE REQUIRED, PROVIDE SEPARATE CONDUIT RUN.
 4. ALL FIRE SUPPRESSION SYSTEM AND ASPIRATING TUBE SMOKE DETECTION SYSTEM SHALL BE PROVIDED WITH ADDRESSABLE INPUT MODULE. CONTRACTOR TO VERIFY ACTUAL LOCATION & QUANTITY.
 5. FDAS CONTRACTOR SHALL FURNISH & INSTALL THE COMPLETE SYSTEM INCLUDING WIRES / CABLES BASEBUILT FDAS CONTRACTOR FOR THE COMPATIBILITY OF THE NEW FDAS DEVICES WITH THE EXISTING FACP.
 6. FDAS CONTRACTOR TO PROVIDE AND COORDINATE WITH BASEBUILT FDAS CONTRACTOR FOR THE COMPATIBILITY OF THE NEW FDAS DEVICES WITH THE EXISTING FACP.
 7. FDAS CONTRACTOR TO ENSURE THAT ALL FIRE ALARM SPEAKER & STROBE LIGHT ARE SYNCHRONIZE, FDAS CONTRACTOR TO PROVIDE SYNCHRONIZATION PANEL.
 8. FDAS CONTRACTOR TO VERIFY IF THE EXISTING BASE BUILD FDAS RISER CAN ACCOMMODATE THE NEW FDAS WIRING WITH MAXIMUM 48V RLL OTHERWISE, CONTRACTOR SHALL PROVIDE A NEW RISER TO ACCOMMODATE THE ADDITIONAL LOOPS OF WIRING.
 9. FACP SHALL MONITOR THE FOLLOWING STATUS OF:
 - A. ASPIRATING TUBE SMOKE DETECTION SYSTEM.
 - B. GENERAL ALARM
 - C. FIRE SMOKE SUPPRESSION SYSTEM.
 - D. FIRE ALARM
 - E. SECOND ALARM
 - F. TROUBLE
 10. 1-TAP CONNECTION IS NOT ACCEPTABLE. WIRING OF LOOP CABLES SHALL BE DONE IN CLASS 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
 11. CONTRACTOR TO PROVIDE ADDRESSABLE OUTPUT MODULE OR CONTROL MODULES FOR ACCESS CONTROL, AV AMPLIFIERS / PANELS & OTHER LIFE SAFETY EQUIPMENTS.
 12. CONTRACTOR TO ENSURE THAT THE EXISTING EMAC PANEL, AMPLIFIER & POWER SUPPLIES CAN ACCOMMODATE THE ADDITIONAL FDAS DEVICES, OTHERWISE CONTRACTOR TO PROVIDE ADDITIONAL AMPLIFIER & POWER SUPPLY.
 13. CONTRACTOR TO ENSURE THAT THE FACP & FDAS WORKSTATION SHALL BE UPDATED & REPROGRAMMED IN ACCORDANCE WITH THE QUANTITY & LOCATION OF FDAS DEVICES, AS PER DESIGN.
 14. CONTRACTOR TO ENSURE AN AVERAGE OF 70DBA SOUND PRESSURE LEVEL AT THE FURthest DISTANCE FROM THE FIRE ALARM SPEAKER AND OTHER DEVICES TO BE PROVIDED NECESSARY FOR THE SUCCESSFUL OPERATION OF THE SYSTEM.
 15. FDAS CONTRACTOR TO PROVIDE INTERFACING CABLES OR WIRES GOING TO THE THIRD PARTY SYSTEMS (BY OTHERS).

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 12. CONTRACTOR TO ENSURE THAT THE EXISTING EMAC PANEL, AMPLIFIER & POWER SUPPLIES CAN ACCOMMODATE THE ADDITIONAL FDAS DEVICES, OTHERWISE CONTRACTOR TO PROVIDE ADDITIONAL AMPLIFIER & POWER SUPPLY.
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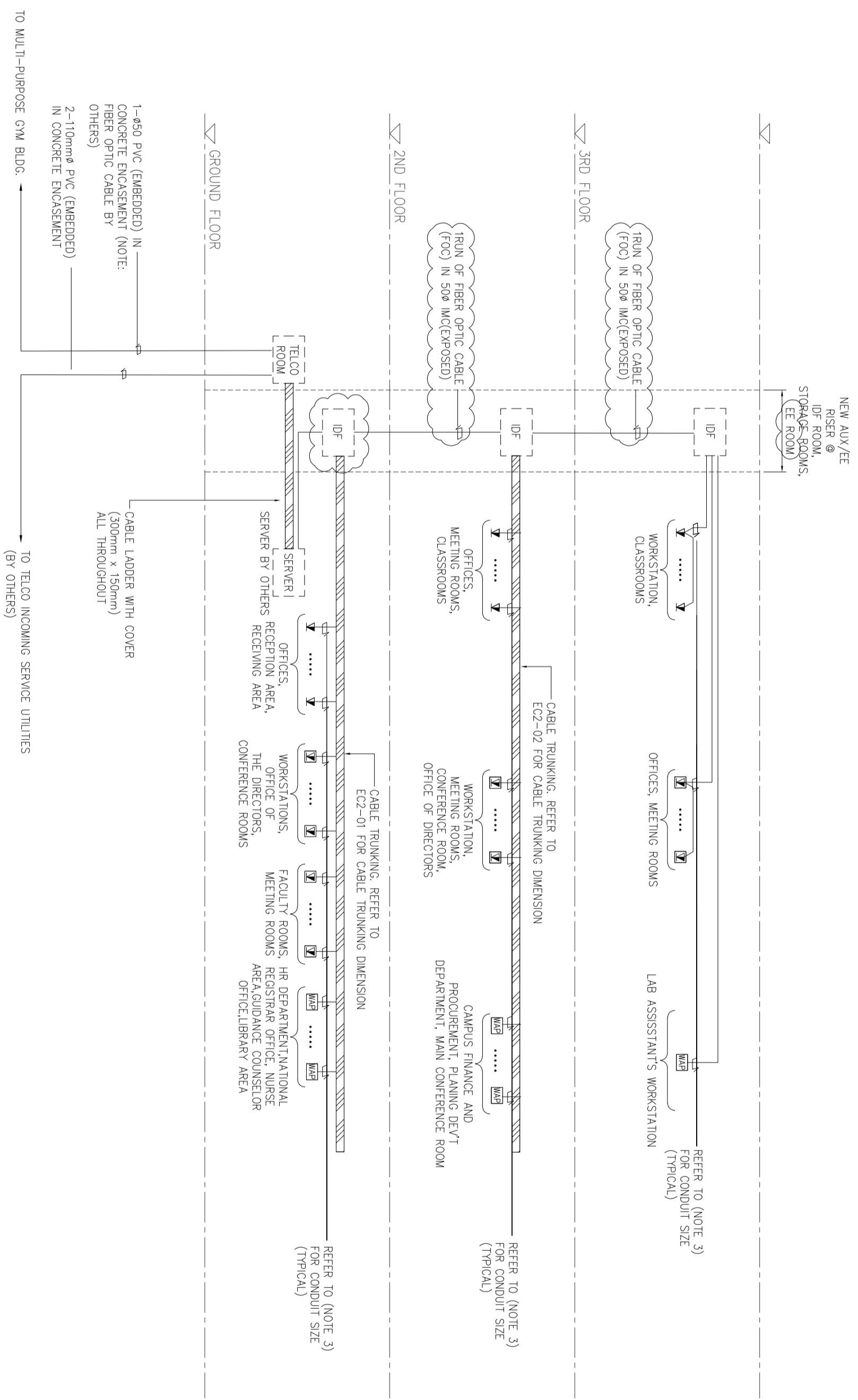


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 3. IF SEPARATE POWER SUPPLY LINES ARE REQUIRED, PROVIDE SEPARATE CONDUIT RUN.
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 15. FDAS CONTRACTOR TO PROVIDE INTERFACING CABLES OR WIRES GOING TO THE THIRD PARTY SYSTEMS (BY OTHERS).

ADMIN BUILDING FIRE DETECTION & ALARM SYSTEM SCHEMATIC DIAGRAM

ADMIN BUILDING PUBLIC ADDRESS SYSTEM SCHEMATIC DIAGRAM

1	NTS	OWNER	CONSTRUCTION MANAGEMENT AND SUPERVISION	GENERAL CONTRACTOR	ENGINEER	PROJECT TITLE	SHEET CONTENTS	REVISIONS: PROPOSED SCHEMATIC FOR ROAD	SHEET NO.
		BCDA Bureau of Community Development Authority RYAN S. GALURA Dir. ESSD Desk	AND NATIONAL ACADEMY OF SPORTS JOSEPHINE JOY REYES Executive Director	FILIPINAS DRAYO CORPORATION Consulting Engineering & Architectural Services JOSEPH ROMMEL D.C. LICLIUAN Senior Project Manager	HILMARC'S CONSTRUCTION CORPORATION 1054 E. International St. Antipolo, Cavite TEL. NO. 0244 185	Professional Electronics Engineer ISAGANI SP. LIM PTR No. 864720 Date Issued: Jan 11, 2021	NATIONAL ACADEMY OF SPORTS (PHASE 1) FIRE DETECTION & ALARM SYSTEM AND PUBLIC ADDRESS SYSTEM SCHEMATIC DIAGRAM	NO. Description Date Checked Authorized	EC3-01 H2M ECC/EVJ
						LOCATION: NCC, MUNICIPALITY OF CAPAS, TARLAC			



ADMIN BUILDING STRUCTURED CABLING SYSTEM SCHEMATIC DIAGRAM

- NOTES:
- THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE A GENERAL CONCEPT AND THE PRINCIPLE OF THE PROPOSED STRUCTURED CABLING SYSTEM (ROUGHING ONLY).
 - THE QUANTITY AND LOCATION OF DEVICES ARE INDICATIVE ONLY. REFER TO FLOOR PLAN LAYOUT FOR FINAL LOCATION AND QUANTITY.
 - MAXIMUM NUMBER OF CABLE IN POLYVINYL CHLORIDE CONDUIT (PVC) FOR SECONDARY HORIZONTAL DISTRIBUTION SHALL BE:
- | RUNS | 15# | 20# | 25# |
|--------------------------|-----|-----|-----|
| R24 AWC CAT 5# UTP CABLE | 2 | 3 | 5 |
| R24 AWC CAT 6 UTP CABLE | 1 | 2 | 3 |
| R24 AWC CAT 6 UTP CABLE | 1 | 2 | 3 |
- CONTRACTOR SHALL PROVIDE PULLBOX OR JUNCTION BOX FOR EVERY BRUN.
 - ENSURE THAT THE WHOLE CABLE TRUNKING IS BONDED/ GROUND.
 - CONTRACTOR TO REFER TO STRUCTURED CABLING SYSTEM LAYOUT FOR THE CABLE TRUNKING SIZE.
 - ALL PENETRATION SHALL BE PROVIDED WITH PIPE SLEEVES AND FIRE STOPPING MATERIAL (2 HOURS RATING).
 - CONTRACTOR SHALL BE RESPONSIBLE IN COORDINATING WITH BUILDING ENGINEERS FOR THE NEAREST STRUCTURED CABLING SYSTEM TAPPING POINT OR RISER.
 - DATA OUTLETS SHALL BE PROVIDED BY SUPPLIER. LOCATION SHALL BE REFLECTED AT ELECTRICAL DRAWINGS. COORDINATE SUPPLIER FOR THE TERMINATION, LOCATION & QUANTITY.
 - FIBER OPTIC CABLE (FOC) SHALL BE PROVIDED ON MULTI-SPORT, ACADEMIC & ADMINISTRATION BUILDINGS FOR MAIN INFRASTRUCTURE BUNKER SERVER ROOM & DATA CENTER ROOM. TELCO SERVICES BUNKER SERVER ROOMS & DATA CENTER ROOMS SHALL BE PROVIDED FOR EACH BUILDING.
 - THE FOLLOWING EQUIPMENTS TO BE USED UNLESS THE SERVER ROOM, STORAGE & TELCO ROOM TO BE PROVIDED BY OTHERS:
 - TRANSCEIVERS
 - MAIN HUB
 - NETWORK SWITCHES
 - FIBER OPTIC PATCH CORDS
 - ACADEMIC & ADMINISTRATION BUILDINGS FOR MAIN INFRASTRUCTURE BUNKER SERVER ROOM & DATA CENTER ROOM. TELCO SERVICES BUNKER SERVER ROOMS & DATA CENTER ROOMS SHALL BE PROVIDED FOR EACH BUILDING.
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 - MAIN HUB
 - NETWORK SWITCHES
 - FIBER OPTIC PATCH CORDS

RUNS	15#	20#	25#
Rc-5#	1	1	2
Rc-6	1	2	3

- NOTES:
- THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE A GENERAL CONCEPT AND PRINCIPLE OF THE PROPOSED COMMUNITY ANTENNA TELEVISION SYSTEM.
 - MAXIMUM NUMBER OF CABLES IN POLYVINYL CHLORIDE CONDUIT (PVC) FOR CATV DISTRIBUTION SHALL BE:

OWNER
NTS

CONSTRUCTION MANAGEMENT AND SUPERVISION
FILIPINAS DRAVO CORPORATION
 Consulting Engineering & Architectural Services
 JOSEPH ROMMEL D.C. LICLIJCAN
 Senior Project Manager

GENERAL CONTRACTOR
HILMARC'S CONSTRUCTION CORPORATION
 1031 E. International Ave. Antipolo, Rizal
 TEL. NO. 02-8034 195

ENGINEER
Professional Electronics Engineer
 Date Issued: Jan. 11, 2021

PROJECT TITLE
NATIONAL ACADEMY OF SPORTS (PHASE 1)
 LOCATION: NCC, MUNICIPALITY OF CAPAS, TARLAC

SHEET CONTENTS
 ELECTRONICS SERVICES
 ADMIN BUILDING STRUCTURED CABLING SYSTEM
 & CATV SYSTEM SCHEMATIC DIAGRAM

REVISIONS: PROPOSED SCHEMATIC FOR ROAD

No.	Description	Date	Checked	Authorized
1	PROVIDE DETAILS ON THE VERTICAL CABLE DISTRIBUTION FOR SCS BARBONE, REFLECT IDF RACK AT GROUND FLOOR EE ROOM	05/02/21		

SHEET NO. EC3-02

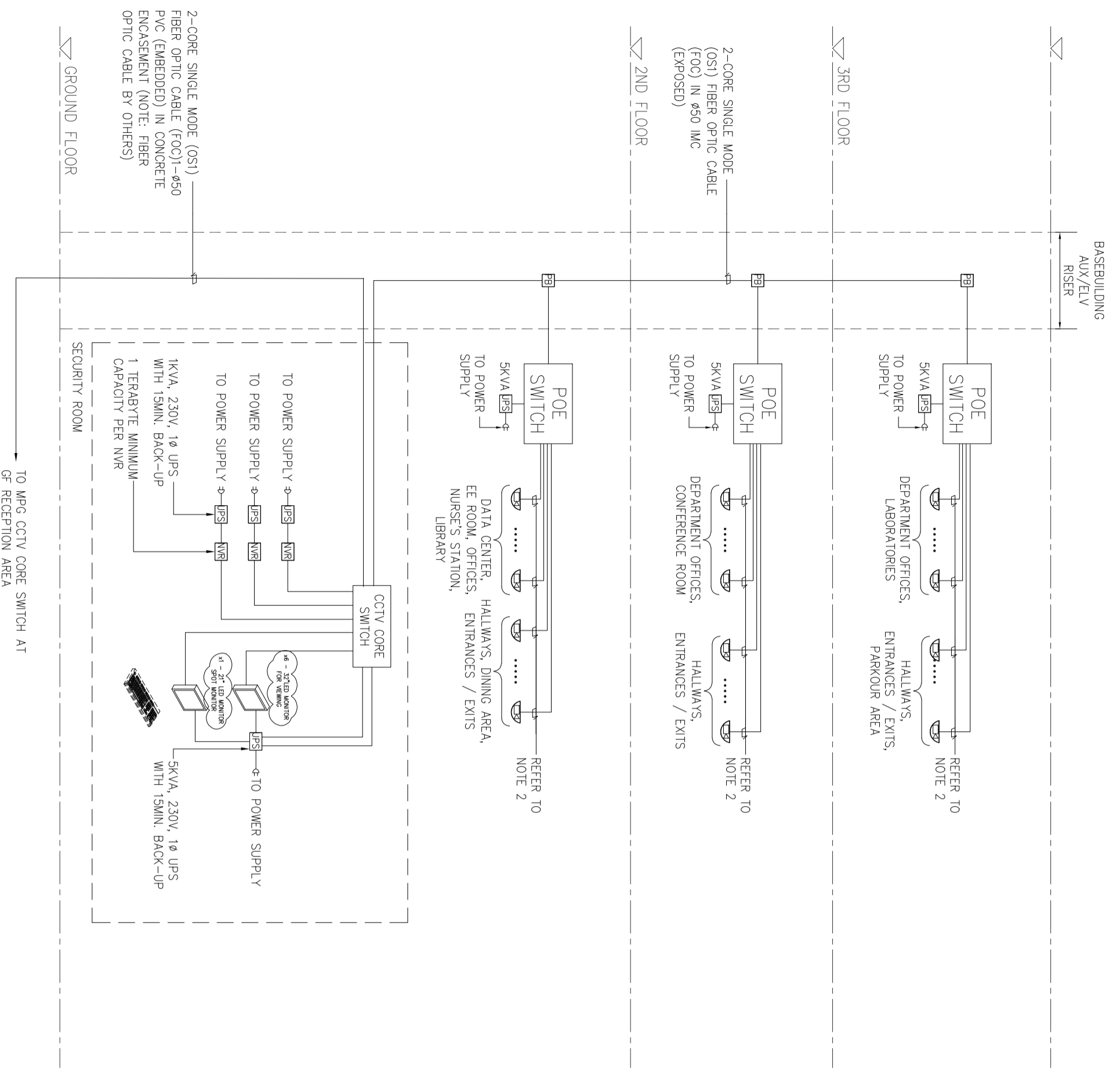
Drawn By: H2M
Checked By: ECC/EVJ
Date Issued:

BCDA
 Bicol Development Authority
 RYAN S. GALURA
 OIC, ESSO Desk

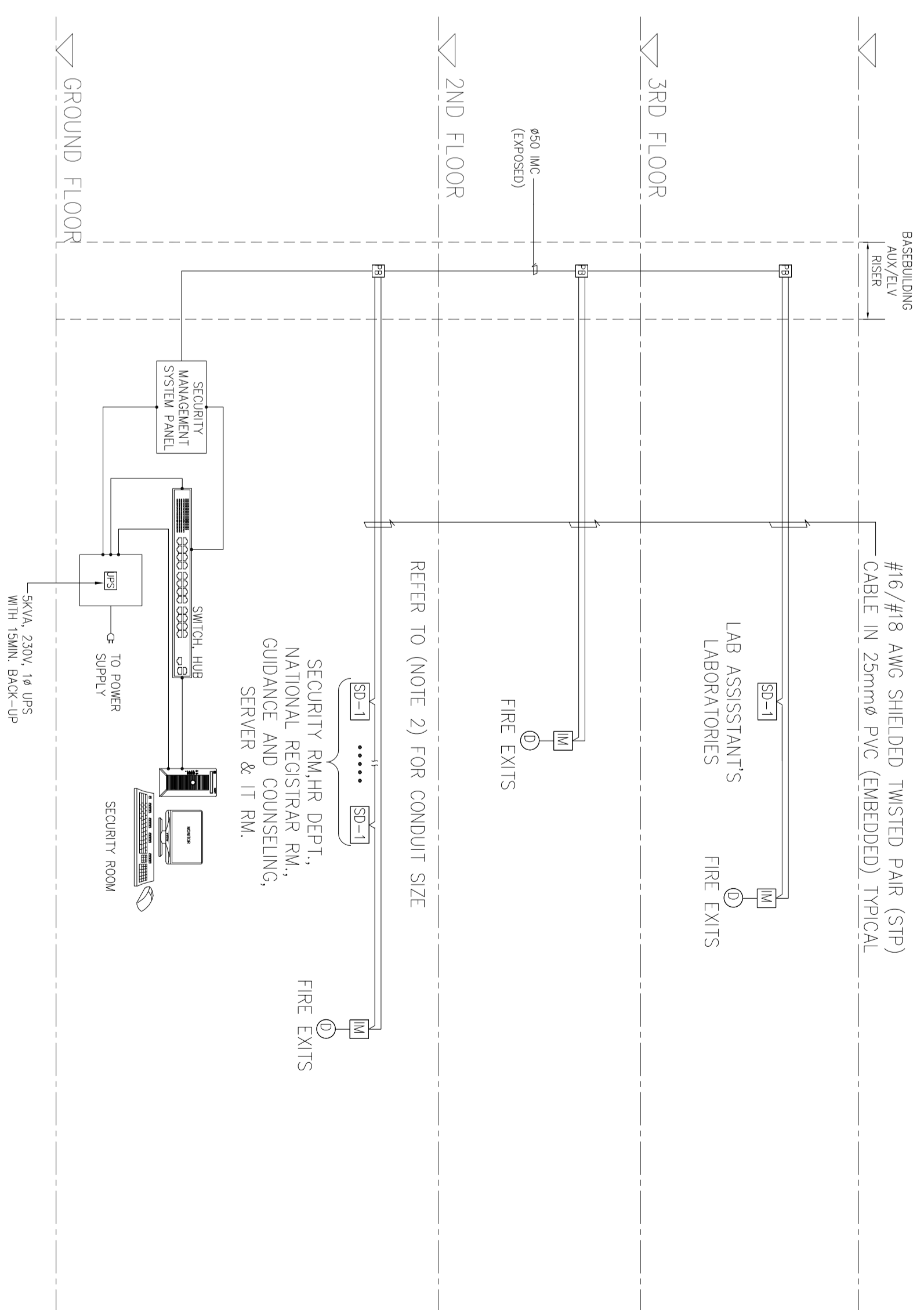
NATIONAL ACADEMY OF SPORTS
 JOSEPHINE JOY REYES
 Executive Director

ADMIN BUILDING COMMUNITY ANTENNA TELEVISION SYSTEM SCHEMATIC DIAGRAM

- NOTES:
- THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE GENERAL CONCEPT AND PRINCIPLE OF THE PROPOSED CCTV SURVEILLANCE SYSTEM.
 - MAXIMUM NUMBER OF CABLES IN POLYVINYL CHLORIDE CONDUIT (PVC) FOR CCTV CAMERA DISTRIBUTION SHALL BE:
- | RUNS | 15# | 20# | 25# |
|-------------------------|-----|-----|-----|
| #24 AWG CAT 6 UTP CABLE | 1 | 2 | 3 |
- CONTRACTOR TO PROVIDE COMPLETE AND FULLY FUNCTIONAL SYSTEM.



- NOTES:
- THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE A GENERAL CONCEPT AND PRINCIPLE OF SECURITY MANAGEMENT SYSTEM.
 - REFER TO FLOOR PLAN LAYOUT FOR EXACT LOCATION, QUANTITY AND SIZE OF CONDUIT.
 - IF SEPARATE POWER SUPPLY LINES ARE REQUIRED, PROVIDE SEPARATE CONDUIT RUN.
 - MAXIMUM NUMBERS OF CABLE IN POLYVINYL CHLORIDE CONDUIT (PVC) FOR SECURITY MANAGEMENT SYSTEM (ACCESS CONTROL) DISTRIBUTION:
- | RUNS | 15mm ϕ | 20mm ϕ | 25mm ϕ |
|--------------------------|-------------|-------------|-------------|
| #24 AWG CAT 5e UTP CABLE | 2 | 3 | 5 |
| #24 AWG CAT 6 UTP CABLE | 1 | 2 | 3 |
| #18 AWG STP CABLE | 1 | 3 | 5 |
| #24 AWG CAT 6A UTP CABLE | 1 | 2 | 3 |

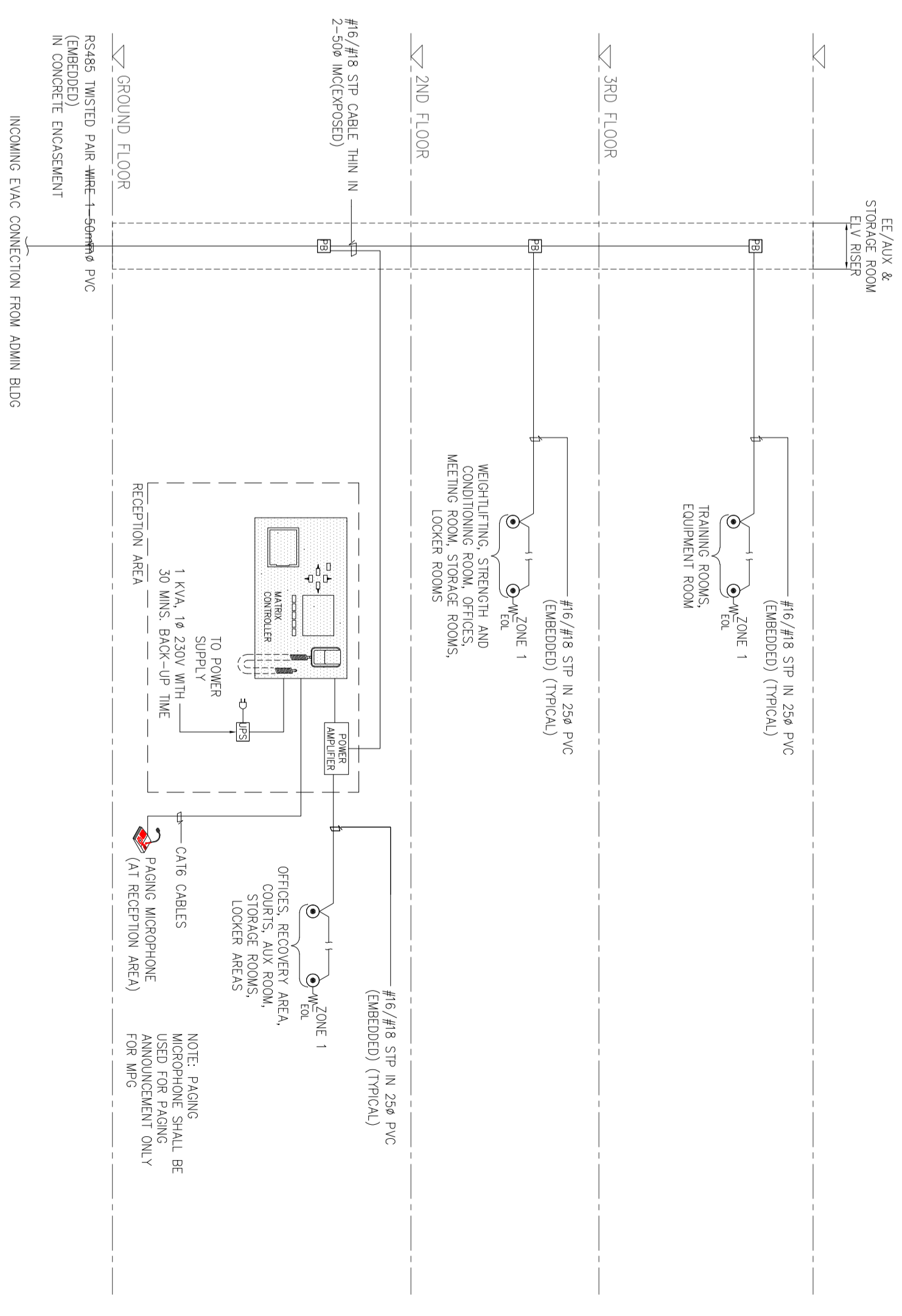
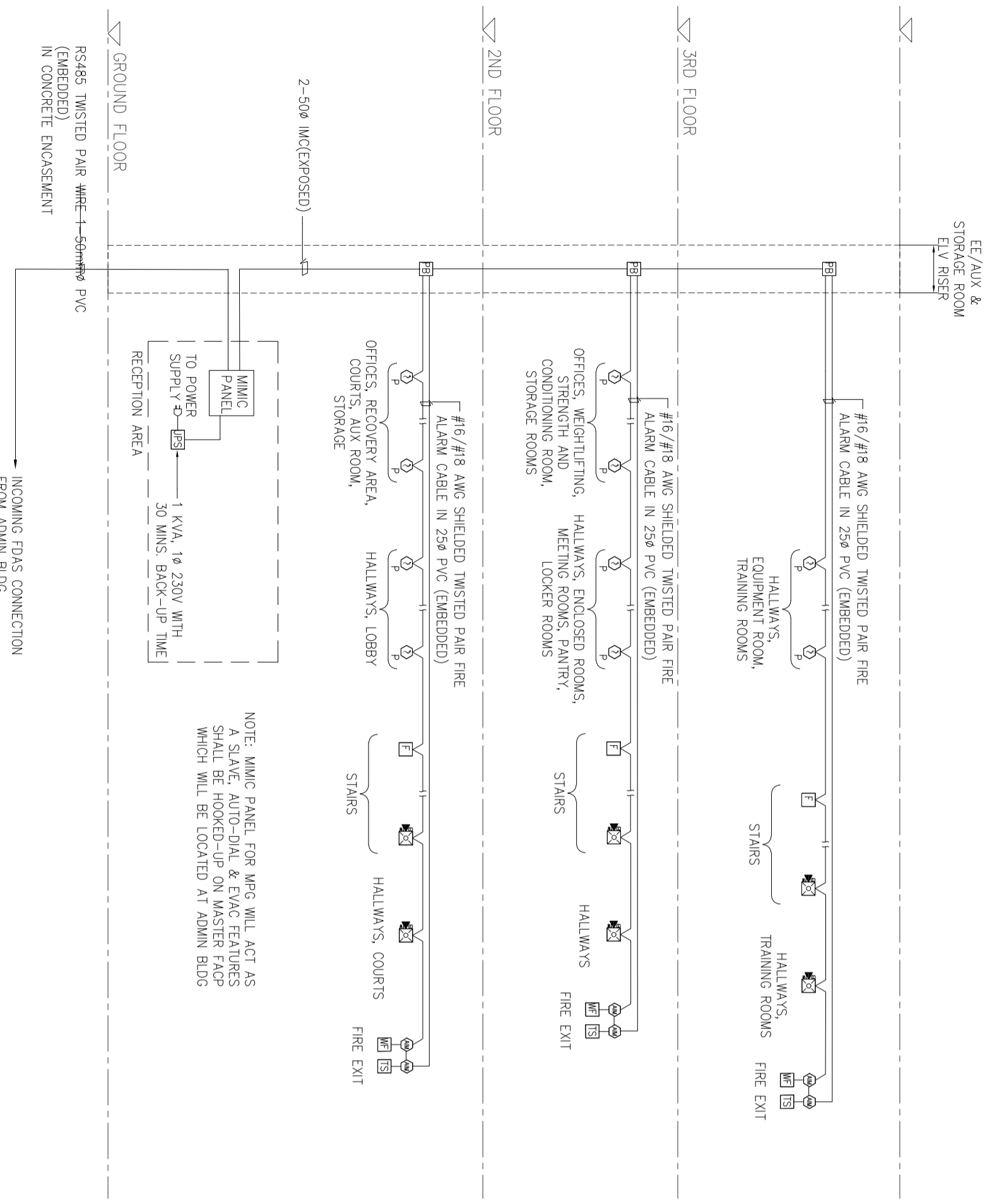


ADMIN BUILDING CLOSED CIRCUIT TELEVISION SYSTEM SCHEMATIC DIAGRAM

ADMIN BUILDING SECURITY MANAGEMENT SYSTEM SCHEMATIC DIAGRAM

1	NTS	OWNER	CONSTRUCTION MANAGEMENT AND SUPERVISION	GENERAL CONTRACTOR	ENGINEER	PROJECT TITLE	SHEET CONTENTS	REVISIONS: PROPOSED SCHEMATIC FOR ROAD	SHEET NO.
		BCDA Bicol Development Authority RYAN S. GALURA Dir., ESSO Desk	AND NATIONAL ACADEMY OF SPORTS JOSEPHINE JOY REYES Executive Director	FLIP FILIPINAS DRAYO CORPORATION Consulting Engineering & Architectural Services JOSEPH POMEL D.C. LICLIJAN Senior Project Manager	HIL MARCS CONSTRUCTION CORPORATION 1018 E. Independence St. Angeles City, Pampanga, Philippines TEL. NO. 0924 185	ISAGANI SP. LIM Professional Electronics Engineer PR No. 864790 TR No. 11, 0201 Date Issued: Jan 11, 2021	NATIONAL ACADEMY OF SPORTS (PHASE 1) SECURITY MANAGEMENT SYSTEM SCHEMATIC DIAGRAM	1 INDICATE QUANTITY FOR CCTV MONITORS WORKSTATION	EC3-03 H2M ECC/EVJ
		ADMIN BUILDING CLOSED CIRCUIT TELEVISION SYSTEM SCHEMATIC DIAGRAM		ADMIN BUILDING SECURITY MANAGEMENT SYSTEM SCHEMATIC DIAGRAM		ELECTRONICS SERVICES ADMIN BUILDING CCTV SYSTEM & SECURITY MANAGEMENT SYSTEM SCHEMATIC DIAGRAM		EC3-03	

- NOTES:
- THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE A GENERAL CONCEPT AND THE PRINCIPLE OF THE PROPOSED FIRE DETECTION AND ALARM SYSTEM.
 - THE QUANTITY AND LOCATION OF DEVICES ARE INDICATIVE ONLY. REFER TO FLOOR PLAN LAYOUT FOR FINAL LOCATION AND QUANTITY.
 - IF SEPARATE POWER SUPPLY LINES ARE REQUIRED, PROVIDE SEPARATE CONDUIT RUN.
 - ALL FIRE SUPPRESSION SYSTEM AND SPRINKLING TYPE ACCESSORIES, RELAYS & SOFTWARE PROGRAMMING (FACP WORK STATION SOFTWARE AND OTHERS) AS REQUIRED, MUST BE PROVIDED BY THE SUCCESSFUL OPERATOR OF THE SYSTEM.
 - FDS CONTRACTOR SHALL FURNISH & INSTALL THE COMPLETE SYSTEM INCLUDING WIRES / CABLES, ACCESSORIES, RELAYS & SOFTWARE PROGRAMMING (FACP WORK STATION SOFTWARE AND OTHERS) AS REQUIRED, INCLUDING 1 YEAR OF THE SUCCESSFUL OPERATION OF THE SYSTEM.
 - FDS CONTRACTORS TO PROVIDE AND COORDINATE WITH BASEBOND FDS CONTRACTOR FOR THE COMPATIBILITY OF THE NEW FDS DEVICES WITH THE EXISTING FACP.
 - FDS CONTRACTORS TO ENSURE THAT ALL FIRE ALARM SPEAKER & STROBE LIGHT ARE SYNCHRONIZED. FDS CONTRACTOR TO PROVIDE SYNCHRONIZATION PANEL.
 - FDS CONTRACTORS TO VERIFY IF THE EXISTING BASE BUILD FDS RISER CAN ACCOMMODATE THE NEW FDS WIRING WITH MAXIMUM 40% FILL. OTHERWISE, CONTRACTOR TO PROVIDE ADDITIONAL FDS RISER TO ACCOMMODATE THE ADDITIONAL LOOPS OR WIRING.
 - FACP SHALL MONITOR THE FOLLOWING STATUS OF INDICATED SYSTEMS:
 - GENERAL ALARM
 - TROUBLE
 - FIRE SUPPRESSION SYSTEM
 - SECOND ALARM
 - TROUBLE
 - T-RAP CONNECTION IS NOT ACCEPTABLE. WIRING OF LOOP CABLES SHALL BE DONE IN CLASS "A" CONFIGURATION AND AS PER MANUFACTURERS RECOMMENDATION.
 - CONTRACTOR TO PROVIDE ADDRESSABLE OUTPUT MODULE OR CONTROL MODULES FOR ACCESS CONTROL, AV AMPLIFIERS / PANELS & OTHER LIFE SAFETY EQUIPMENTS.
 - CONTRACTOR TO ENSURE THAT THE EXISTING EVAC PANEL, AMPLIFIER & POWER SUPPLIES CAN ACCOMMODATE THE ADDITIONAL FDS DEVICES. OTHERWISE, CONTRACTOR TO PROVIDE ADDITIONAL AMPLIFIER & POWER SUPPLY.
 - CONTRACTOR TO ENSURE THAT THE FACP & FDS WORKSTATION SHALL BE UPDATED & REPROGRAMMED IN ACCORDANCE WITH THE QUANTITY & LOCATION OF FDS DEVICES, AS PER DESIGN.
 - CONTRACTOR TO ENSURE AN AVERAGE OF 700BA SOUND PRESSURE LEVEL AT THE FURthest DISTANCE FROM THE FIRE ALARM SPEAKER AND OTHERS INSIDE THE ENCLOSED ROOMS.
 - FDS CONTRACTOR TO PROVIDE INTERFACE CABLES OR WIRS GOING TO THE THIRD PARTY SYSTEMS (BY OTHERS).



- NOTES:
- THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE A GENERAL CONCEPT AND PRINCIPLE OF THE PROPOSED PUBLIC ADDRESS SYSTEM.
 - THE QUANTITY AND LOCATION OF DEVICES ARE INDICATIVE ONLY. REFER TO FLOOR PLAN LAYOUT FOR FINAL LOCATION AND QUANTITY.
 - PA SPEAKER SHALL BE HOOKED UP WITH TELES FEEDS.
 - PA SYSTEM CONTRACTOR SHALL FURNISH & INSTALL THE COMPLETE SYSTEM TO INCLUDE WIRES/CABLES, ACCESSORIES, RELAYS & SOFTWARE PROGRAMMING AS REQUIRED, INCLUDING 1 YEAR OF THE SUCCESSFUL OPERATION OF THE SYSTEM.
 - PA SYSTEM CONTRACTOR TO ENSURE THAT THE EXISTING PA SPEAKERS, OTHERWISE, CONTRACTOR TO PROVIDE ADDITIONAL AMPLIFIER WITH 20% SAFETY FACTOR (SPARE), PUBLIC ADDRESS SYSTEM SHALL TYP TO EMERGENCY ANNOUNCEMENT AND EVACUATION PURPOSES.

1		2																
NTS		NTS																
OWNER		PROJECT TITLE																
 BCDA Bicol Development Authority RYAN S. GALURA OIC, ESSO Desk		NATIONAL ACADEMY OF SPORTS (PHASE 1) LOCATION: NCC, MUNICIPALITY OF CAPAS, TARLAC																
CONSTRUCTION MANAGEMENT AND SUPERVISION		SHEET CONTENTS																
 NATIONAL ACADEMY OF SPORTS JOSEPHINE JOY REYES Executive Director		ELECTRONICS SERVICES MULTI-PURPOSE GYM FIRE DETECTION & ALARM SYSTEM AND PUBLIC ADDRESS SYSTEM SCHEMATIC DIAGRAM																
GENERAL CONTRACTOR		REVISIONS: PROPOSED SCHEMATIC FOR ROAD																
 FILIPINAS DRAYO CORPORATION Consulting Engineering & Architectural Services JOSEPH ROMMEL D.C. LICLIJCAN Senior Project Manager		<table border="1"> <thead> <tr> <th>No.</th> <th>Description</th> <th>Date</th> <th>Checked</th> <th>Authorized</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Description	Date	Checked	Authorized										
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ENGINEER		SHEET NO.																
 HILMARC'S CONSTRUCTION CORPORATION 1031 E. International & Avenida España, Quezon City TEL. NO. 8244 195		EC3-04 H2M ECC/EVJ																
PRC No. 357 TIR No. 11, 2021 ISAGANI SP. LIM Professional Electronics Engineer TIR No. 854730 Date Issued: Jan 11, 2021		Date Issued:																

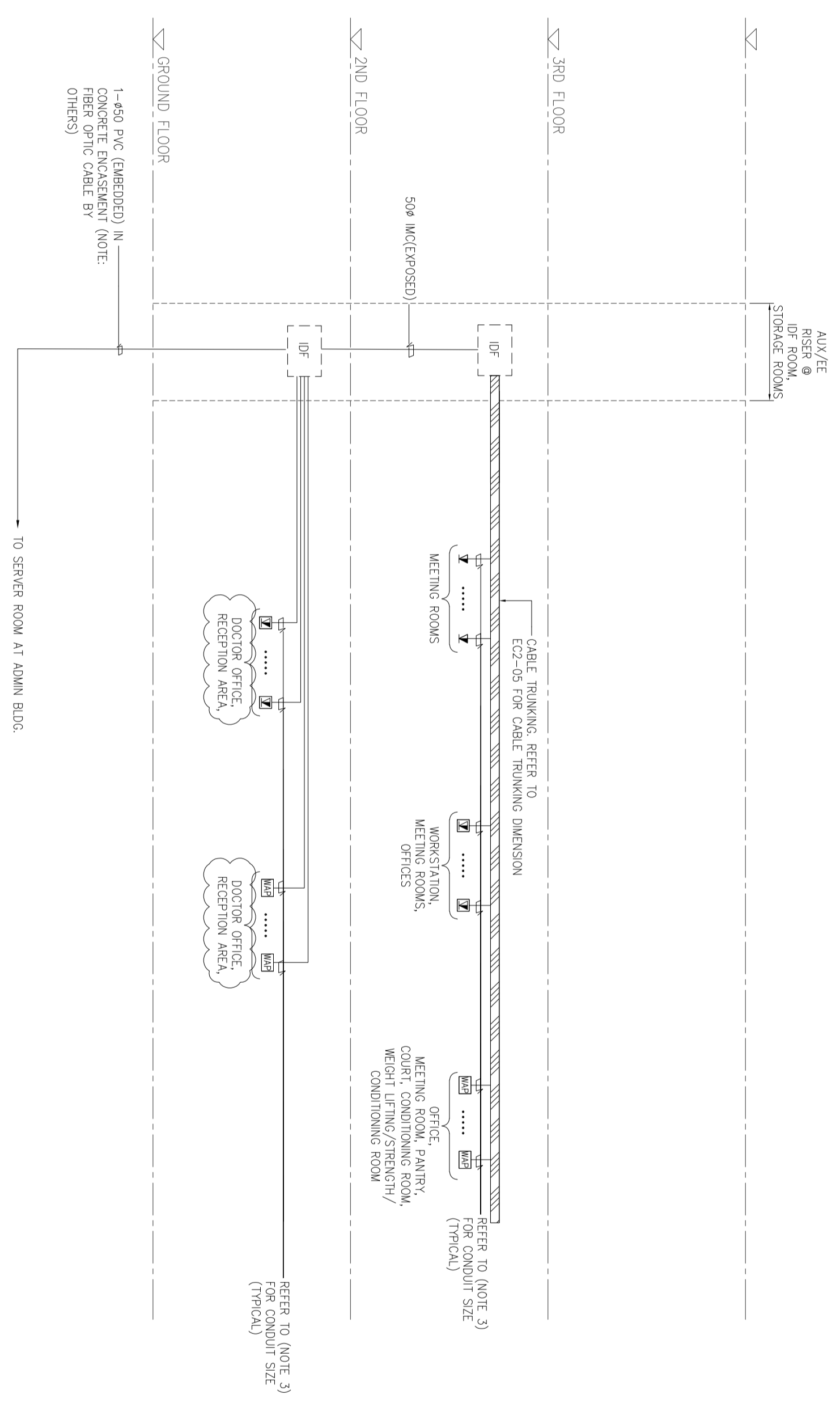
MULTI-PURPOSE GYM FIRE DETECTION & ALARM SYSTEM SCHEMATIC DIAGRAM

MULTI-PURPOSE GYM PUBLIC ADDRESS SYSTEM SCHEMATIC DIAGRAM

- NOTES:
1. THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE A GENERAL CONCEPT AND THIS PRINCIPLE OF THE PROPOSED STRUCTURED CABLING SYSTEM (ROOM-INS ONLY).
 2. THE QUANTITY AND LOCATION OF DEVICES ARE INDICATIVE ONLY. REFER TO FLOOR PLAN LAYOUT FOR FINAL LOCATION AND QUANTITY.
 3. MAXIMUM NUMBERS OF CABLE IN POLYVINYL CHLORIDE CONDUIT (PVC) FOR SECONDARY HORIZONTAL DISTRIBUTION SHALL BE:

ROUTING	15ø	20ø	25ø
#24 AWG CAT 5e UTP CABLE	2	3	5
#24 AWG CAT 6 UTP CABLE	1	2	3
#24 AWG CAT 6e UTP CABLE	1	2	3

4. CONTRACTOR SHALL PROVIDE PULLBOX OR JUNCTION BOX FOR EVERY BRANCH.
5. ENSURE THAT THE WHOLE CABLE TRUNKING IS BONDED / GROUNDED.
6. CONTRACTOR TO REFER TO STRUCTURED CABLING SYSTEM LAYOUT FOR THE CABLE TRUNKING SIZE.
7. ALL PENETRATION SHALL BE PROVIDED WITH PIPE SLEEVES AND FIRE STOPPING MATERIAL (2 HOURS RATING).
8. CONTRACTOR SHALL BE RESPONSIBLE IN COORDINATING WITH BUILDING ENGINEERS FOR THE NEAREST STRUCTURED CABLING SYSTEM TAPPING POINT OR RISER.
9. DATA OUTLETS SHALL BE PROVIDED BY SUPPLIER. LOCATION SHALL BE REFLECTED AT ELECTRICAL DRAWINGS. COORDINATE SUPPLIER FOR THE TERMINATION, LOCATION & QUANTITY.

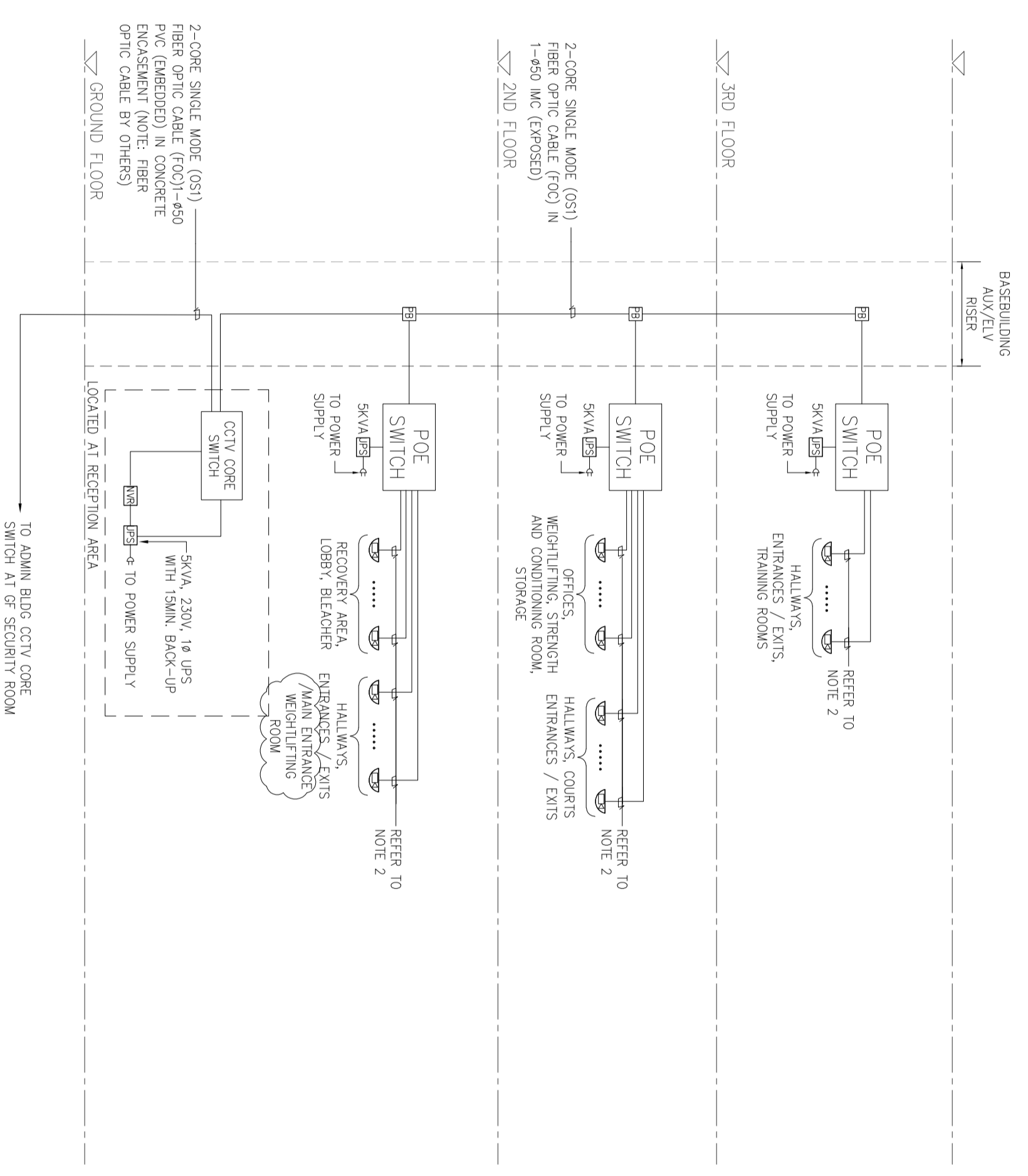


MULTI-PURPOSE GYM STRUCTURED CABLING SYSTEM SCHEMATIC DIAGRAM



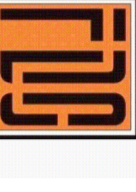
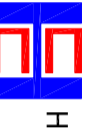
1 NTS	OWNER	CONSTRUCTION MANAGEMENT AND SUPERVISION	GENERAL CONTRACTOR	ENGINEER	PROJECT TITLE	SHEET CONTENTS	REVISIONS: PROPOSED SCHEMATIC FOR ROAD	SHEET NO.										
	 BCDA Bureau of Construction, Development and Engineering Services Development Authority RYAN S. GALURA Dir., ESSD Desk	 AND NATIONAL ACADEMY OF SPORTS JOSEPHINE JOY REYES Executive Director	 FILIPINAS DRAYO CORPORATION Consulting Engineering & Architectural Services JOSEPH ROMMEL D.C. LICLIUAN Senior Project Manager	 HILMARC'S CONSTRUCTION CORPORATION 1031 E. International St., Marikina City, QUEZON CITY TEL. NO. 8244 195	 Professional Electronics Engineer ISAGANI SP. LIM PR No. 864789 TR No. 11, 221 Date Issued: Jan 11, 2021	NATIONAL ACADEMY OF SPORTS (PHASE 1)	ELECTRONICS SERVICES MULTI-PURPOSE GYM STRUCTURED CABLING SYSTEM SCHEMATIC DIAGRAM	<table border="1"> <thead> <tr> <th>No.</th> <th>Description</th> <th>Date</th> <th>Checked</th> <th>Authorized</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UPDATE TAGGING ON WAP & DATA PORTS</td> <td>05NOV/21</td> <td></td> <td></td> </tr> </tbody> </table>	No.	Description	Date	Checked	Authorized	1	UPDATE TAGGING ON WAP & DATA PORTS	05NOV/21		
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1	UPDATE TAGGING ON WAP & DATA PORTS	05NOV/21																

- NOTES:
- THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE GENERAL CONCEPT AND APPROXIMATE OF THE PROPOSED CCTV SURVEILLANCE SYSTEM.
 - MAXIMUM NUMBER OF CABLES IN POLYMERIC CHLORIDE CONDUIT (PVC) FOR CCTV CAMERA DISTRIBUTION SHALL BE:

RUNS	15ø	20ø	25ø
#24 AWG CAT 6 UTP CABLE	1	2	3
 - CONTRACTOR TO PROVIDE COMPLETE AND FULLY FUNCTIONAL SYSTEM.



MULTI-PURPOSE GYM CLOSED CIRCUIT TELEVISION SYSTEM SCHEMATIC DIAGRAM

1 NTS															
OWNER	CONSTRUCTION MANAGEMENT AND SUPERVISION	GENERAL CONTRACTOR	ENGINEER	PROJECT TITLE	SHEET CONTENTS										
 BCD BUREAU OF CONSTRUCTION DEVELOPMENT AUTHORITY RYAN S. GALURA Dir., ESSD Desk AND  NATIONAL ACADEMY OF SPORTS JOSEPHINE JOY REYES Executive Director	 FILIPINAS DRAVO CORPORATION Consulting Engineering & Architectural Services JOSEPH ROMMEL D.C. LICLIJAN Senior Project Manager	 HILMARC'S CONSTRUCTION CORPORATION 1031 E. Ispahanoluz St. Antipolo, Cavite TEL. NO. 0244 185	ISAGANI SP. LIM Professional Electronics Engineer PRC No. 357 TIN No. 11-1221 Date Issued: Jan 11, 2021	NATIONAL ACADEMY OF SPORTS (PHASE 1) LOCATION: NCC, MUNICIPALITY OF CAPAS, TARLAC	ELECTRONICS SERVICES MULTI-PURPOSE GYM CCTV SYSTEM SCHEMATIC DIAGRAM										
				REVISIONS: PROPOSED SCHEMATIC FOR ROAD	SHEET NO.										
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No.	Description	Date	Checked	Authorized											
1	UPDATE TAGGING ON CCTV CAMERA AT 6 ^F	02/01/21													
					Drawn By: H2M Checked By: ECC/EVJ Date Issued:										