Revised BP Form 202 (2026 Budget Tier 2)

PROFILE FOR TIER 2 BUDGET PROPOSALS

1. Proposal/Project Name	CONSTRUCTION OF COLLEGE OF EDUCATION CHILD RESEARCH AND DEVELOPMENT LABORATORY OF EXPERIENCES (CRADLE)
2. Implementing Department / Agency	TARLAC AGRICULTURAL UNIVERSITY (TAU)
3. Priority Ranking No.	7

4. Categorization	■ New	■ Infrastructure
	For issuance of MYCA:	
	Expanded/Revised	Non-Infrastructure

5. NEDA PIP Code	2023-08036-002441
6. Total Proposal Cost:	
Original	PHP 20MILLION
Revised	
7. Total Proposal Cost	PHP 20MILLION

8. Description:	The project is construction of one-storey building for College of Education. Tarlac Agricultural University - College of Education (CEd), as a Center of Excellence in Teacher Education, is mindful of its relevant mission to provide training, conduct research, innovate methods and practices and most of all serve as a model and service provider in the community. The technical as well as the symbolic nature of CRADLE projects the relevance of societal ideas of caring, nurturing, and learning that still pervade today. These are critical links to facilitating and enhancing early childhood teacher education efforts. As an educational resource, CRADLE will serve as an ideal environment to bring into reality the visual as well as experiential representations of how programs and models in child development are practiced, allows students to put theories into tests and provides the community a model facility for early childhood development and education.
9. Purpose:	To provide sustainable, resilient, integrated, and modernized learning infrastructure for Bachelor of Early Childhood Education students which shall serve as an enabling environment for transformative lifelong learning, thus promoting human and social development through becoming a globally-competitive higher education institution. As part of the Sustainable Development Goal 4 (Quality Education), the project aims to provide a safe and conducive learning environment while ensuring equity and inclusivity in education, thus also supporting students to become future licensed professional teachers and nation-builders in response to the PDP. Furthermore, this responds to Sustainable Development Goal 5 (Gender Equality) in terms of the laboratory becoming a child-minding center for students' and employees' children while they are at work, thus aiding in the realization of goals stipulated in the Philippine Development Plan for Women and Philippine Plan for Gender-Responsive Development.
10. Beneficiaries:	The project will be beneficial to both students and faculty. This will maximize the practical learning experience of the students and the skills they need to acquire to be ready for industry's demands.
11. Implementation Period:	**ORIGINAL**
	Start Date: March 2026
	Finish Date: November 2026
	REVISED
	Start Date:
	Finish Date:

12. Pre-Requisites:

Approving Authorities	Reviewed/Approved				
	Yes	No	Not Applicable		Remarks
NEDA Board			■		
NEDA Board - ICC			■		
DPWH Certification			■		
DPWH MOA			■		
DPWH Costing			■		
DENR Clearance			■		
RDC Consultation			■		
CSO Consultation			■		
List of Locations			■		
List of Beneficiaries			■		
Others (please specify)					
TAU Board of Regents	■				
BPA Consultation					

13. Financial (in P'OOO) and Physical Details

13.1. PAP ATTRIBUTION BY EXPENSE CLASS

PAP (A)	FY 2026 TIER2 (B)	2027 (C)	2028 (D)
PAP Description: Construction of College of Education Child Research and Development Laboratory of Experiences (CRADLE)	20,000		
GRAND TOTAL	**20,000**		

13.2. PHYSICAL TARGETS

			PERFORMANCE INDICATOR (A)
Targets	2024 ACTUAL (B)		
	2025 CURRENT		
	FY 2026	TIER 1 (D)	
		TIER 2 (E)	Construction of College of Education Child Research and Development Laboratory of Experiences (CRADLE)
		TOTAL (F)	
	2027 (G)		
	2028 (H)		

13.3. TOTAL PROJECT COST

Expense Class	Total Project Cost
Personnel Services (PS)	
Maintenance and Other Operating Expenses (MOOE)	
Financial Expenses (FINEX)	
Capital Outlay (CO)	20,000
GRAND TOTAL	**20,000**

13.4. REQUIREMENTS FOR OPERATING COST OF INFRASTRUCTURE PROJECT

For Infrastructure projects, show the estimated ongoing operating costs to be included in Forward Estimates

PAP (A)	2027 (B)	2028 (C)
PAP Description Expense Class: Construction of College of Education Child Research and Development Laboratory of Experiences (CRADLE)		
Electric Consumption	300	400
Water Consumption	200	300
GRAND TOTAL	**500**	**700**

13.5. COSTING BY COMPONENT(S)

Components	PS	MOOE	CO	FINEX	Total
(A)	(B)	(C)	(D)	(E)	(F)
Construction of College of Education Child Research and Development Laboratory of Experiences (CRADLE)			18,000		18,000
Furniture, Fixtures, and Equipment			2,000		2,000
GRAND TOTAL			**20,000**		**20,000**

13.6. LOCATION OF IMPLEMENTATION

Location (A)	PS (B)	MOOE (C)	CO (D)	FINEX (E)	TOTAL (F)
Region III - Central Luzon	0	0	20,000	0	20,000
GRAND TOTAL	0	0	**20,000**	0	**20,000**

Prepared By:		Certified Correct:	Approved:	Date
EUGENE S. VALERIANO, DIT	**HELEN G. RUZOL**	**LYDE G. RAGUS, CPA**	**SILVERIO RAMON DC. SALUNSON, DBA**	
Director, Planning and Development	Budget Officer	Chief Accountant	SUC President IV	DAY/MO/YEAR

Republic of the Philippines
TARLAC AGRICULTURAL UNIVERSITY
Camiling, Tarlac

COLLEGE OF EDUCATION

Program Framework for CRADLE (Child Center for Research and Development of Learning)

1. Vision and Mission

- **Vision**: To become a leading hub for innovative research and development in early childhood education, fostering holistic learning and development for children.
- **Mission**: To conduct ground breaking research, develop innovative teaching practices, and provide high-quality developmental programs for children, educators, and communities.

2. Rationale

The establishment of the Child Center for Research and Development of Learning (CRADLE) is a strategic initiative that leverages the recognized excellence of the College of Education and aligns with national educational directives to enhance early childhood education (ECE) in the Philippines.

The TAU- College of Education has been officially recognized by the Commission on Higher Education (CHED) as a Center of Excellence (COE) for Teacher Education. This designation acknowledges our commitment to high standards in pedagogy, curriculum development, and teacher training. As a COE, TAU-CED is entrusted with the responsibility to lead in educational innovations and contribute to the advancement of teacher education in the country.

Further Need for CRADLE

The Child Center for Research and Development of Learning (CRADLE) is envisioned as a pioneering institution that integrates early childhood education with research-driven practices to enhance teaching methodologies and learning outcomes. Drawing inspiration from progressive educational philosophies such as Reggio Emilia, Montessori, and Waldorf, CRADLE aims to provide a holistic and child-centered approach to early learning.

Other Justifications for Establishing CRADLE:

1. Bridging Theory and Practice

CRADLE will serve as a hub where research and educational practice intersect. It will facilitate studies on child development, learning styles, and pedagogical innovations to inform best practices in ECE.The center will provide an observation room and research facilities for educators, researchers, and students to analyze child behavior and learning processes in a naturalistic setting.

2. Enhancing Early Learning Experiences

CRADLE will implement play-based, inquiry-driven, and experiential learning methods that align with best practices from the Reggio Emilia, Waldorf, and Montessori approaches.The learning environment will be designed to stimulate curiosity, creativity, and self-directed learning through well-structured interest areas such as art corners, science exploration zones, reading nooks, and outdoor sensory gardens.

3. Supporting Families and Working ParentsWith an employer-supported program, CRADLE will offer childcare and early education services to employees' children, helping parents maintain work-life balance while ensuring their children receive high-quality education and care.

By providing flexible childcare options, CRADLE can support organizations in improving employee productivity, retention, and overall well-being.

4. Promoting Sustainable and Inclusive Education

The center will incorporate eco-friendly materials and sustainable learning spaces to instill environmental awareness in young learners.CRADLE will also ensure inclusivity by accommodating diverse learning needs and fostering an environment where all children, regardless of background or ability, can thrive.

5. Building a Model for Future Early Learning Centers

CRADLE's research-driven approach will serve as a model for replicating and improving early childhood education centers in other communities.By documenting best practices, developing training programs, and offering professional development courses for educators, CRADLE will contribute to raising the overall quality of early childhood education.

Core Objectives

To fulfill its mission of enhancing early childhood education through research and innovation, CRADLE (Child Center for Research and Development of Learning) is guided by the following core objectives:

1. Conduct Research in Early Childhood Education and Development

CRADLE will serve as a research hub dedicated to studying various aspects of early childhood education, including cognitive, social, and emotional development. The research initiatives will:

- Investigate best practices in early childhood pedagogy from globally recognized educational models (e.g., Reggio Emilia, Montessori, Waldorf).
- Examine the effectiveness of play-based, inquiry-driven, and experiential learning strategies.
- Explore the role of technology and emerging educational tools in enhancing early childhood education.
- Conduct longitudinal studies to assess the long-term impact of early childhood interventions on academic achievement and life skills.

2. Develop and Pilot Innovative Educational Methodologies

CRADLE aims to be at the forefront of developing, testing, and refining cutting-edge teaching methodologies tailored for young learners. This objective includes:

- Designing and implementing experimental learning modules based on research findings.
- Integrating interactive and hands-on learning approaches that encourage creativity, critical thinking, and problem-solving.
- Utilizing flexible and child-centered curricula that adapt to diverse learning needs and abilities.
- Piloting alternative assessment strategies that focus on holistic development rather than traditional standardized testing.

- Creating educational models that promote sustainability and future ready learning environments.

3. Train Educators in Modern Pedagogical Approaches

A key function of CRADLE is to equip pre-service and in-service teachers with advanced knowledge and skills in early childhood education. Training initiatives will include:

- Providing professional development workshops and certification programs in innovative teaching methodologies.
- Offering hands-on practicum experiences within CRADLE's learning environment to bridge theory and practice.
- Hosting national and international conferences and symposiums to foster knowledge exchange among educators and researchers.
- Introducing technology-enhanced learning techniques, including digital storytelling, augmented reality, and interactive learning applications.
- Establishing mentorship programs where experienced educators support early-career teachers in implementing best practices.

4. Provide Direct Developmental Support and Learning Programs for Children

CRADLE will not only serve as a research and training facility but also directly benefit young learners by offering high-quality educational programs. This objective will be realized through:

- Establishing developmentally appropriate classrooms and play areas that encourage active learning.
- Implementing structured and unstructured play-based learning experiences to foster creativity and curiosity.
- Providing special intervention programs for children with diverse learning needs, ensuring inclusivity and equity in education.
- Creating interest-based learning zones (e.g., art corners, science exploration centers, reading nooks) to cater to different intelligences and learning styles.
- Monitoring and assessing child development through observation and developmental checklists to ensure holistic growth.

5. Engage Parents and Communities in the Educational Process

Recognizing that early childhood education is a collaborative effort, CRADLE will actively involve parents and communities in its initiatives. Strategies for community engagement include:

- Organizing parent education seminars to equip families with effective strategies for supporting their children's learning at home.
- Developing home-learning extension programs to reinforce classroom learning in home environments.
- Establishing partnerships with local businesses, government agencies, and non-profit organizations to promote early childhood education advocacy.
- Encouraging volunteerism by involving parents and community members in classroom activities, storytelling sessions, and mentoring programs.
- Conducting community outreach programs, such as mobile learning centers, to bring quality education to underserved populations.

PROGRAM OUTCOMES

The Child Center for Research and Development of Learning (CRADLE) is envisioned as a pioneering institution dedicated to transforming early childhood education through evidence-based practices, teacher training, and community involvement. By integrating Montessori, Reggio Emilia, and Waldorf principles, CRADLE aims to create a holistic learning environment where children, educators, and researchers collaborate to foster innovative approaches to early education. The program outcomes of CRADLE are structured to ensure high-quality learning experiences for children, advancements in research, professional development for educators, and sustainable community partnerships. These are the following:

1.Enhancing Early Childhood Education Practices

One of CRADLE's primary goals is to improve early childhood education methodologies by implementing child-centered and research-based teaching strategies. By providing an enriching and developmentally appropriate environment, CRADLE ensures that children develop cognitive, social, emotional, and motor skills in a way that aligns with their natural curiosity and growth. The integration of interest areas, including art, literacy, music, and outdoor play, encourages exploration, creativity, and problem-solving. These learning experiences will prepare children for lifelong learning while addressing their individual developmental needs.In addition, CRADLE will promote the use of flexible learning spaces that allow for active engagement and self-directed learning. Educators will be trained to facilitate child-led activities, ensuring that each child's unique learning style is nurtured. Through this approach, CRADLE will serve as a model institution that demonstrates best practices in early childhood education.

2.Advancing Research and Innovation in Early Childhood Development

CRADLE will serve as a hub for empirical research, action-based studies, and curriculum development in early childhood education. By fostering interdisciplinary collaborations among educators, researchers, and policymakers, CRADLE will contribute valuable insights into teaching methodologies, childhood development, and learning interventions. Research conducted at CRADLE will focus on early literacy, play-based learning, socio-emotional development, and technology integration in early education.Furthermore, CRADLE will publish research findings and best practices, ensuring that its contributions to the field of early childhood education extend beyond its immediate community. Research outcomes will be shared through academic journals, policy briefs, and conferences, influencing national and international discussions on early education. By doing so, CRADLE will play a vital role in shaping educational policies and curriculum development.

3.Empowering Educators Through Professional Development

A key component of CRADLE is its commitment to teacher training and capacity building. The center will serve as a training ground for pre-service and in-service teachers, equipping them with the latest pedagogical approaches, classroom management strategies, and assessment techniques. By integrating real-world teaching experiences with research, educators will develop a deeper understanding of how children learn and grow.CRADLE will also offer specialized certification programs and professional development workshops for educators interested in early childhood education. These programs will be designed to enhance teachers' competencies and provide them with the tools needed to implement innovative and child-centered instructional methods. By fostering continuous learning among educators, CRADLE will contribute to raising the standards of early childhood education nationwide.

4.Engaging Parents and the Community in Early Learning

Recognizing the critical role of families and communities in a child's education, CRADLE will actively promote parent engagement and community collaboration. Through parenting seminars, family literacy programs, and interactive workshops, CRADLE will empower caregivers with the knowledge and skills needed to support their children's learning at home.Additionally, CRADLE will establish partnerships with local government agencies, educational institutions, and non-government organizations (NGOs) to advocate for accessible and high-quality early childhood education. Community involvement initiatives, such as volunteer programs and outreach activities, will further strengthen the relationship between CRADLE and its stakeholders, fostering a shared commitment to educational excellence.

5. Ensuring Sustainability and Self-Sufficiency

To maintain long-term sustainability, CRADLE will implement an employer-supported childcare program that provides quality early childhood education services for working parents. This initiative will not only support families but also generate revenue to sustain CRADLE's operations. In addition, the center will explore income-generating opportunities, such as teacher training courses, research grants, and consultancy services in early education.CRADLE will also prioritize eco-friendly and cost-efficient building management, integrating sustainable practices such as energy-efficient facilities, natural lighting, and green outdoor spaces. These efforts will ensure that CRADLE operates as a self-sufficient, environmentally responsible institution that aligns with global best practices in sustainable education.

6.Establishing a Model for Policy Development and Educational Excellence

Through its innovative approaches, CRADLE will serve as a benchmark institution for early childhood education research, training, and implementation. The center will collaborate with the Department of Education (DepEd), the Commission on Higher Education (CHED), and private sector partners to influence educational policies and curriculum development. By providing scalable and replicable models, CRADLE will contribute to the continuous improvement of early learning programs across the country.Furthermore, as part of the College of Education, which is recognized as a Center of Excellence in Teacher Education, CRADLE will uphold the highest standards in early childhood education. Guided by DepEd and CHED provisions, the center will support the national agenda of enhancing the quality, accessibility, and effectiveness of early childhood education in the Philippines.

Republic of the Philippines
TARLAC AGRICULTURAL UNIVERSITY
Camiling, Tarlac

PLANNING AND DEVELOPMENT OFFICE

PROGRAM OF WORK/BUDGET COST FOR BUILDINGS

(DETAILED UNIT PRICE ANALYSIS)

PROJECT : Construction of College of Education Child Research and Developmentment Laboratory Experiences (CRADLE)

SOURCE OF FUNDS :	CALENDAR DAYS TO COMPLETE
GAA	270 CD
TECHNICAL PERSONNEL REQUIRED:	EQUIPMENT TO BE USED:
1 Project Engineer	2 2 Bagger Mixer
1 Safety Officer	1 Concrete Vibrator
1 Electrical Engineer/Master Electrician	2 Welding Machine
1 Const. Foreman	1 Vibratory Compactor
	1 Backhoe
ESTIMATED COST OF WORK :	IMPLEMENTED PROCEDUR BY CONTRACT

ITEM/ DESCRIPTION	UNIT	QTY	U-PRICE	TOTAL AMNT.
I GENERAL REQUIREMENTS				
B.1 Temporary Facilities	months	9.00	9,958.01	89,622.09
B.3 Government Fees & Permits	LS	1.00	207,200.00	207,200.00
B.5 Project Billboard/Signages and Barricades	lot	1.00	38,898.38	38,898.38
B.7 Occupational Safety and Health Program	months	9.00	12,192.98	109,736.82
B.9.Mobilization/Demobilization	LS	1.00	41,440.00	41,440.00
			SUB-TOTAL	**486,897.29**
II-A. EARTHWORKS				
800(1) -Clearing & Grubbing	sq.m.	900.00	31.65	28,485.00
803(1) - Structure Excavation	cu.m.	153.73	915.52	140,741.52
804(1)a Embankment from Structure Excavation	cu.m.	87.52	752.83	65,885.87
804(1)b - Embankment from Borrow	cu.m.	132.81	866.40	115,068.75
804(1)c - Gravel Bedding	cu.m.	5.77	2,109.32	12,178.89
807(1) - Site Development	LS	1.00	134,400.00	134,400.00
807(4) - Softscape(Grass)	sq.m.	58.45	1,922.52	112,371.29
807(7) - Garden Soil	cu.m.	23.38	1,375.27	32,153.81
807(9) - Paver Blocks	sq.m.	1.00	87,360.00	87,360.00
807(13) - Fence	sq.m.	64.85	6,971.34	452,102.55
807(14) - Gate	lumpsum	1.00	63,222.78	63,222.78
			SUB-TOTAL	**1,243,970.46**
II-B. STRUCTURAL				
900 (1)c -Structural Concrete, 3000 psi, Class A, 28days	cu.m.	116.09	7,213.37	837,411.66
902 (1) a - Reinforcing Steel (Deformed)Grade 40	kgs.	6,883.05	74.72	514,301.78
903(1) - Formworks & Falseworks	LS	1.00	201,653.76	201,653.76
1046 (2) a1 - CHB Non Load Bearing (100mm)	sq.m.	739.83	837.44	619,563.24
1046 (2) a2 - CHB Non Load Bearing (150mm)	sq.m.	317.49	953.42	302,698.93
1047(1) Structural Steel	kgs.	13,397.02	120.49	1,614,206.94
			SUB-TOTAL	**4,089,836.31**

Prepared By:

ENGR. ROCHEL E. VIBAR
Project Development Officer III

Checked By:

EUGENE S. VALERIANO,DIT
Director, Planning and Development

Submitted By:

LEONELL P. LIJAUCO, Ph.D.
VP-Planning and Quality Assurance

Recommending Approval:

ARNOLD R. LORENZO, Ed. D.
VP- Finance & Administration

Approved:

SILVERIO RAMON DC. SALUNSON, DBA
University President

PLANNING AND DEVELOPMENT OFFICE

PROGRAM OF WORK/BUDGET COST FOR BUILDINGS

(DETAILED UNIT PRICE ANALYSIS)

PROJECT : Construction of College of Education Child Research and Developmentment Laboratory Experiences (CRADLE)				
SOURCE OF FUNDS :	CALENDAR DAYS TO COMPLETE			
GAA	270 CD			
TECHNICAL PERSONNEL REQUIRED:	EQUIPMENT TO BE USED:			
1 Project Engineer 1 Safety Officer 1 Electrical Engineer/Master Electrician 1 Const. Foreman	2 2 Bagger Mixer 1 Concrete Vibrator 2 Welding Machine 1 Vibratory Compactor 1 Backhoe			
ESTIMATED COST OF WORK :	IMPLEMENTED PROCEDUR BY CONTRACT			
ITEM/ DESCRIPTION	**UNIT**	**QTY**	**U-PRICE**	**TOTAL AMNT.**
II-C. FINISHING				
1000 - Termite Control System	liter	15.00	2,051.84	30,777.60
1001(5) - Catch Basin	each	12.00	5,936.29	71,235.48
1001(10) - Pipes with Fitting Connections	lm	480.00	230.67	110,721.60
1001(11) - Septic Vault	units	1.00	67,740.29	67,740.29
1002 (5)- Plumbing (Cold Waterline Works)	lm	270.00	360.80	97,416.00
1002(8) - Plumbing fixtures	pcs	53.00	3,073.24	162,881.72
1002(20) - Facial Mirror	sq.m.	3.32	5,800.49	19,228.62
1003(1)a1 - Ceiling (Fiber Cement Board w/ Metal Frame)	sq.m.	510.00	977.67	498,611.70
1003(1) e2 - Ceiling (Prepainted Metal Panel)	sq.m.	140.00	1,308.53	183,194.20
1003(16)- Pressurized laminated Wood particles	sq.m.	7.80	13,812.05	107,733.99
1003(17)-Carpentry and Jointery Works	LS	1.00	375,121.22	375,121.22
1004(2) - Finishing Hardware	sets	24.00	2,626.42	63,034.08
1007(1)a- Aluminum Glass Door(Sliding Type)	sq.m.	3.36	18,144.00	60,963.84
1008(2)- Aluminum Glass Window	sq.m.	3.96	7,612.86	30,146.93
1009(1)a- Jalousie Windows with Grills	sq.m.	58.20	7,214.91	419,907.76
1010 (1) Door Frames	sets	12.00	6,477.83	77,733.96
1010 (2) a - Door (Flush Door)	sq.m.	17.22	8,439.22	145,323.37
1010 (2) b - Doors (Wood Panel)	sq.m.	7.14	9,783.22	69,852.19
1013(2)a1 - Fabricated metal Roofing, gauge 26(0.551mm),Ridge/Hip Lolls	lm	151.15	255.31	38,590.11
1014(1)b2 - Pre-painted Metal Sheets (0.5mm Rib Type) with Heat Insulator	sq.m.	717.60	1,081.13	775,818.89
1016(1)b- Water Proofing (Liquid Base)	sq.m.	133.58	423.86	56,618.58
1018 (2)- Unglazed Tiles	sq.m.	362.50	1,733.46	628,379.25
1018 (5)- Glazed Tiles	sq.m.	101.64	1,942.69	197,455.01
1027 - Cement Plaster Finish	sq.m.	2,114.64	241.73	511,170.72

Prepared By:

ENGR. ROCHEL E. VIBAR
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Checked By:

EUGENE S. VALERIANO,DIT
Director, Planning and Development

Submitted By:

LEONELL P. LIJAUCO, Ph.D.
VP-Planning and Quality Assurance

Recommending Approval:

ARNOLD R. LORENZO, Ed. D.
VP- Finance & Administration

Approved:

SILVERIO RAMON DC. SALUNSON, DBA
University President

PLANNING AND DEVELOPMENT OFFICE

PROGRAM OF WORK/BUDGET COST FOR BUILDINGS

(DETAILED UNIT PRICE ANALYSIS)

PROJECT : Construction of College of Education Child Research and Developmentment Laboratory Experiences (CRADLE)				
SOURCE OF FUNDS :	CALENDAR DAYS TO COMPLETE			
GAA	270 CD			
TECHNICAL PERSONNEL REQUIRED:	EQUIPMENT TO BE USED:			
1 Project Engineer 1 Safety Officer 1 Electrical Engineer/Master Electrician 1 Const. Foreman	2 2 Bagger Mixer 1 Concrete Vibrator 2 Welding Machine 1 Vibratory Compactor 1 Backhoe			
ESTIMATED COST OF WORK :	IMPLEMENTED PROCEDUR BY CONTRACT			
ITEM/ DESCRIPTION	**UNIT**	**QTY**	**U-PRICE**	**TOTAL AMNT.**
1032 -Painting Works	sq.m.	2,624.64	295.05	774,398.56
1051(1) -Railings	lm	7.00	9,924.93	69,474.51
1053(6)a - Aluminum Staircase Nosing	lm	20.00	712.22	14,244.40
			SUB-TOTAL	**5,657,774.58**
II-D. ELECTRICAL WORKS				
1100 (a)- Conduit, Boxes and Fittings	lm	1,260.00	57.49	72,437.40
1103(1) - Lighting fixture	pcs	148.00	1,790.12	264,937.76
1101 - Wires, Cables and Devices	lm	1,973.00	99.59	196,491.07
1102(1) - Panel Board with Main & Branch Breakers	sets	9.00	11,484.48	103,360.32
1102(5) - Manual Transfer Switch	set	1.00	37,996.90	37,996.90
1102(18) -Solar panel with Inverter, battery and Other Divices	set	1.00	1,689,195.07	1,689,195.07
1105(18) - Network Cabling	lm	950.00	82.91	78,764.50
1111(1) - 4" dia. Electrical with Concrete Pedestal	pcs	5.00	9,443.18	47,215.90
1200 (13) - Air-conditioning	sets	8.00	122,389.32	979,114.56
1201 - Water Pumping System	sets	1.00	106,284.06	106,284.06
1202(7) -Fire Department connections 100mm x 65mm x65mm for Dry Type System	set	1.00	29,676.06	29,676.06
1202(23) -Fire Hose Cabinet w/ Pipe	set	1.00	39,084.06	39,084.06
1202(6)a1 -Fire Extenguisher(10 lbs)	units	3.00	4,091.21	12,273.63
1200(5)b - Exhaust Fan(Wall Mounted with shutter)	set	4.00	11,123.62	44,494.48
1208 -Fire Alarm System	set	1.00	98,383.82	98,383.82
			SUB-TOTAL	**3,799,709.59**

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Director, Planning and Development

Submitted By:

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VP-Planning and Quality Assurance

Recommending Approval:

ARNOLD R. LORENZO, Ed. D.
VP- Finance & Administration

Approved:

SILVERIO RAMOS DC. CALUNSON, DBA
University President

Republic of the Philippines
TARLAC AGRICULTURAL UNIVERSITY
Camiling, Tarlac

PLANNING AND DEVELOPMENT OFFICE

PROGRAM OF WORK/BUDGET COST FOR BUILDINGS

(DETAILED UNIT PRICE ANALYSIS)

PROJECT : Construction of College of Education Child Research and Developmentment Laboratory Experiences (CRADLE)

SOURCE OF FUNDS :	CALENDAR DAYS TO COMPLETE
GAA	270 CD
TECHNICAL PERSONNEL REQUIRED:	EQUIPMENT TO BE USED:
1 Project Engineer 1 Safety Officer 1 Electrical Engineer/Master Electrician 1 Const. Foreman	2 2 Bagger Mixer 1 Concrete Vibrator 2 Welding Machine 1 Vibratory Compactor 1 Backhoe
ESTIMATED COST OF WORK :	IMPLEMENTED PROCEDUR BY CONTRACT

ITEM/ DESCRIPTION	UNIT	QTY	U-PRICE	TOTAL AMNT.
MISCELLANEOUS WORKS				
SPL - 1 Logo & Stainless Letters	set	1.00	144,345.60	144,345.60
SPL -2 - Rain Water Harvesting System	LOT	1.00	340,854.53	340,854.53
SPL - 3 -Built in White board	set	3.00	41,367.24	124,101.72
SPL - 4 - Rubber Floor matting (1m x1m x 12mm)	sq.m.	187.20	3,688.88	690,558.34
SPL - 5 - Built In audio and Sound System	set	1.00	1,223,040.00	1,223,040.00
SPL - 6 -Furnitures	set	100.00	16,642.77	1,664,277.00
SPL - 7 - Laboratory Equipments	LS	1.00	336,000.00	336,000.00
			SUB-TOTAL	**4,523,177.19**
			GRAND TOTAL PROJECT COST (A+B)	19,801,365.42

A	Direct Cost		**19,801,365.42**
B	Eng'g. & Admin. Overhead(1% of A)		**198,013.65**
C	Miscellaneous (CO or RO)		-
D	Price Escalation		-
E	Total Estimated Cost	**Php**	**19,999,379.07**
	say	**Php**	**20,000,000.00**

Prepared By:

ENGR. ROCHEL E. VIBAR
Project Development Officer III

Checked By:

EUGENE S. VALERIANO,DIT
Director, Planning and Development

Submitted By:

LEONELL P. LIJAUCO, Ph.D.
VP-Planning and Quality Assurance

Recommending Approval:

ARNOLD R. LORENZO, Ed. D.
VP- Finance & Administration

Approved:

SILVERIO RAMON BC. SALUNSON, DBA
University President

Republic of the Philippines
TARLAC AGRICULTURAL UNIVERSITY
Camiling, Tarlac

PLANNING AND DEVELOPMENT OFFICE

APPROVED BUDGET FOR THE CONTRACT

Contract ID:
Contract Name: Construction of College of Education Child Research and Developmentment Laboratory Experiences (CRADLE)
Location of the Contract: Academic District, TAU Campus, Malacampa, Camiling, Tarlac
Contract Duration: 270 CD

ITEM NO./ DESCRIPTION	QTY	UNIT	DIRECT COST	MARK-UP IN PERCENT		TOTAL MARK-UP		[2]VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST	CORRECTED COST
				[1]OCM	PROFIT	%	VALUE					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (4)X(7)	(9)= 12%[(4)+(8)]	(10)= (8)+(9)	(11)= (4)+(10)	(12) (11)/(2)	(13) (12)*(2)
I GENERAL REQUIREMENTS												
B.1 Temporary Facilities	9.00	months	74,092.32	0%	8%	8%	5,927.39	9,602.37	15,529.76	89,622.08	9,958.01	89,622.09
B.3 Government Fees & Permits	1.00	LS	185,000.00	0%	0%	0%	-	22,200.00	22,200.00	207,200.00	207,200.00	207,200.00
B.5 Project Billboard/Signages and Barricades	1.00	lot	32,158.05	0%	8%	8%	2,572.64	4,167.68	6,740.32	38,898.37	38,898.37	38,898.38
B.7 Occupational Safety and Health Program	9.00	months	90,721.60	0%	8%	8%	7,257.73	11,757.52	19,015.25	109,736.85	12,192.98	109,736.82
B.9.Mobilization/Demobilization	1.00	LS	37,000.00	-	-	0%	-	4,440.00	4,440.00	41,440.00	41,440.00	41,440.00
II-A. EARTHWORKS												
800(1) -Clearing & Grubbing	900.00	sq.m.	21,196.00	12%	8%	20%	4,239.20	3,052.22	7,291.42	28,487.42	31.65	28,485.00
803(1) - Structure Excavation	153.73	cu.m.	104,718.24	12%	8%	20%	20,943.65	15,079.43	36,023.08	140,741.32	915.52	140,741.52

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VP-Finance and Administration

Approved:
SILVERIO RAMON P. SALUNSON, DBA
University President

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PLANNING AND DEVELOPMENT OFFICE

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				[1] OCM	PROFIT	%	VALUE					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (4)X(7)	(9)= 12%[(4)+(8)]	(10)= (8)+(9)	(11)= (4)+(10)	(12) (11)/(2)	(13) (12)*(2)
804(1)a Embankment from Structure Excavation	87.52	cu.m.	49,022.29	12%	8%	20%	9,804.46	7,059.21	16,863.67	65,885.96	752.83	65,885.87
804(1)b - Embankment from Borrow	132.81	cu.m.	85,616.72	12%	8%	20%	17,123.34	12,328.81	29,452.15	115,068.87	866.40	115,068.75
804(1)c - Gravel Bedding	5.77	cu.m.	9,061.69	12%	8%	20%	1,812.34	1,304.88	3,117.22	12,178.91	2,109.32	12,178.89
807(1) - Site Development	1.00	LS	100,000.00	12%	8%	20%	20,000.00	14,400.00	34,400.00	134,400.00	134,400.00	134,400.00
807(4) - Softscape(Grass)	58.45	sq.m.	83,609.80	12%	8%	20%	16,721.96	12,039.81	28,761.77	112,371.57	1,922.52	112,371.29
807(7) - Garden Soil	23.38	cu.m.	23,924.05	12%	8%	20%	4,784.81	3,445.06	8,229.87	32,153.92	1,375.27	32,153.81
807(9) - Paver Blocks	1.00	sq.m.	65,000.00	12%	8%	20%	13,000.00	9,360.00	22,360.00	87,360.00	87,360.00	87,360.00
807(13) - Fence	64.85	sq.m.	336,385.63	12%	8%	20%	67,277.13	48,439.53	115,716.66	452,102.29	6,971.34	452,102.55
807(14) - Gate	1.00	lumpsum	47,040.76	12%	8%	20%	9,408.15	6,773.87	16,182.02	63,222.78	63,222.78	63,222.78
II-B. STRUCTURAL												
900 (1)c -Structural Concrete, 3000 psi, Class A, 28days	106.42	cu.m.	571,151.60	12%	8%	20%	114,230.32	82,245.83	196,476.15	767,627.75	7,213.37	767,627.36

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VP-Finance and Administration

Approved:

SILVERIO R[illegible] G. BUNSON, DBA
University President

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PLANNING AND DEVELOPMENT OFFICE

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (4)X(7)	(9)= 12%[(4)+(8)]	(10)= (8)+(9)	(11)= (4)+(10)	(12) (11)/(2)	(13) (12)*(2)
902 (1) a - Reinforcing Steel (Deformed)Grade 40	6,883.05	kgs.	382,668.05	12%	8%	20%	76,533.61	55,104.20	131,637.81	514,305.86	74.72	514,301.78
903(1) - Formworks & Faiseworks	1.00	LS	150,040.00	12%	8%	20%	30,008.00	21,605.76	51,613.76	201,653.76	201,653.76	201,653.76
1046 (2) a1 - CHB Non Load Bearing (100mm)	739.83	sq.m.	460,985.91	12%	8%	20%	92,197.18	66,381.97	158,579.15	619,565.06	837.44	619,563.24
1046 (2) a2 - CHB Non Load Bearing (150mm)	317.49	sq.m.	225,222.37	12%	8%	20%	45,044.47	32,432.02	77,476.49	302,698.86	953.42	302,698.93
1047(1) Structural Steel	13,397.02	kgs.	1,201,071.68	12%	8%	20%	240,214.34	172,954.32	413,168.66	1,614,240.34	120.49	1,614,206.94
II-C. FINISHING												
1000 - Termite Control System	15.00	liter	22,900.00	12%	8%	20%	4,580.00	3,297.60	7,877.60	30,777.60	2,051.84	30,777.60
1001(5) - Catch Basin	12.00	each	53,002.60	12%	8%	20%	10,600.52	7,632.37	18,232.89	71,235.49	5,936.29	71,235.48
1001(10) - Pipes with Fitting Connections	480.00	lm	82,381.40	12%	8%	20%	16,476.28	11,862.92	28,339.20	110,720.60	230.67	110,721.60
1001(11) - Septic Vault	1.00	units	50,402.00	12%	8%	20%	10,080.40	7,257.89	17,338.29	67,740.29	67,740.29	67,740.29

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Project Development Officer III

Checked & Submitted by:
EUGENE S. VALERIANO,DIT
Director, Planning and Development

Recommending Approval:
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VP-Planning and Quality Assurance

ARNOLD R. LORENZO, Ed. D.
VP-Finance and Administration

Approved:
SILVERIO RAMOS DC. SALUNSON, DBA
University President

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Republic of the Philippines
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Camiling, Tarlac

PLANNING AND DEVELOPMENT OFFICE

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (4)X(7)	(9)= 12%[(4)+(8)]	(10)= (8)+(9)	(11)= (4)+(10)	(12) (11)/(2)	(13) (12)*(2)
1002 (5)- Plumbing (Cold Waterline Works)	270.00	lm	72,481.40	12%	8%	20%	14,496.28	10,437.32	24,933.60	97,415.00	360.80	97,416.00
1002(8) - Plumbing fixtures	53.00	pcs	131,018.00	3%	8%	11%	14,411.98	17,451.60	31,863.58	162,881.58	3,073.24	162,881.72
1002(20) - Facial Mirror	3.32	sq.m.	14,307.00	12%	8%	20%	2,861.40	2,060.21	4,921.61	19,228.61	5,800.49	19,228.62
1003(1)a1 - Ceiling (Fiber Cement Board w/ Metal Frame)	510.00	sq.m.	370,991.32	12%	8%	20%	74,198.26	53,422.75	127,621.01	498,612.33	977.67	498,611.70
1003(1) e2 - Ceiling (Prepainted Metal Panel)	140.00	sq.m.	136,305.12	12%	8%	20%	27,261.02	19,627.94	46,888.96	183,194.08	1,308.53	183,194.20
1003(16)- Pressurized laminated Wood particles	7.80	sq.m.	80,159.20	12%	8%	20%	16,031.84	11,542.92	27,574.76	107,733.96	13,812.05	107,733.99
1003(17)-Carpentry and Jointery Works	1.00	LS	279,108.05	12%	8%	20%	55,821.61	40,191.56	96,013.17	375,121.22	375,121.22	375,121.22
1004(2) - Finishing Hardware	24.00	sets	46,900.30	12%	8%	20%	9,380.06	6,753.64	16,133.70	63,034.00	2,626.42	63,034.08
1007(1)a- Aluminum Glass Door(Sliding Type)	3.36	sq.m.	45,360.00	12%	8%	20%	9,072.00	6,531.84	15,603.84	60,963.84	18,144.00	60,963.84
1008(2)- Aluminum Glass Window	3.96	sq.m.	22,430.75	12%	8%	20%	4,486.15	3,230.03	7,716.18	30,146.93	7,612.86	30,146.93
1009(1)a- Jalousie Windows with Grills	58.20	sq.m.	312,431.57	12%	8%	20%	62,486.31	44,990.15	107,476.46	419,908.03	7,214.91	419,907.76

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Project Development Officer III

Checked & Submitted by:
EUGENE S. VALERIANO,DIT
Director, Planning and Development

Recommending Approval:
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VP-Planning and Quality Assurance

ARNOLD R. LORENZO, Ed. D.
VP-Finance and Administration

Approved:
SILVERIO RAMON C. SALUNSON, DBA
University President

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PLANNING AND DEVELOPMENT OFFICE

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (4)X(7)	(9)= 12%[(4)+(8)]	(10)= (8)+(9)	(11)= (4)+(10)	(12) (11)/(2)	(13) (12)*(2)
1010 (1) Door Frames	12.00	sets	57,837.76	12%	8%	20%	11,567.55	8,328.64	19,896.19	77,733.95	6,477.83	77,733.96
1010 (2) a - Door (Flush Door)	17.22	sq.m.	108,127.46	12%	8%	20%	21,625.49	15,570.35	37,195.84	145,323.30	8,439.22	145,323.37
1010 (2) b - Doors (Wood Panel)	7.14	sq.m.	51,973.34	12%	8%	20%	10,394.67	7,484.16	17,878.83	69,852.17	9,783.22	69,852.19
1013(2)a1 - Fabricated metal Roofing, gauge 26(0.551mm),Ridge/Hip Lolls	151.15	lm	28,712.51	12%	8%	20%	5,742.50	4,134.60	9,877.10	38,589.61	255.31	38,590.11
1014(1)b2 - Pre-painted Metal Sheets (0.5mm Rib Type) with Heat Insulator	717.60	sq.m.	577,246.86	12%	8%	20%	115,449.37	83,123.55	198,572.92	775,819.78	1,081.13	775,818.89
1016(1)b- Water Proofing (Liquid Base)	133.58	sq.m.	42,126.92	12%	8%	20%	8,425.38	6,066.28	14,491.66	56,618.58	423.86	56,618.58
1018 (2)- Unglazed Tiles	362.50	sq.m.	467,545.35	12%	8%	20%	93,509.07	67,326.53	160,835.60	628,380.95	1,733.46	628,379.25
1018 (5)- Glazed Tiles	101.64	sq.m.	146,915.61	12%	8%	20%	29,383.12	21,155.85	50,538.97	197,454.58	1,942.69	197,455.01

Prepared by:

ENGR. ROCHEL E. VIBAR
Project Development Officer III

Checked & Submitted by:

EUGENE S. VALERIANO,DIT
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Recommending Approval:

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Approved:

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PLANNING AND DEVELOPMENT OFFICE

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(4)X(7)	(9)=12%[(4)+(8)]	(10)=(8)+(9)	(11)=(4)+(10)	(12)=(11)/(2)	(13)=(12)*(2)
1027 - Cement Plaster Finish	2,114.64	sq.m.	380,338.25	12%	8%	20%	76,067.65	54,768.71	130,836.36	511,174.61	241.73	511,170.72
1032 -Painting Works	2,624.64	sq.m.	576,194.07	12%	8%	20%	115,238.81	82,971.95	198,210.76	774,404.83	295.05	774,398.56
1051(1) -Railings	7.00	lm	51,692.36	12%	8%	20%	10,338.47	7,443.70	17,782.17	69,474.53	9,924.93	69,474.51
1053(6)a - Aluminum Staircase Nosing	20.00	lm	10,598.57	12%	8%	20%	2,119.71	1,526.19	3,645.90	14,244.47	712.22	14,244.40
II-D. ELECTRICAL WORKS								-				
1100 (a)- Conduit, Boxes and Fittings	1,260.00	lm	53,901.20	12%	8%	20%	10,780.24	7,761.77	18,542.01	72,443.21	57.49	72,437.40
1103(1) - Lighting fixture	148.00	pcs	213,109.00	3%	8%	11%	23,441.99	28,386.12	51,828.11	264,937.11	1,790.12	264,937.76
1101 - Wires, Cables and Devices	1,973.00	lm	146,199.60	12%	8%	20%	29,239.92	21,052.74	50,292.66	196,492.26	99.59	196,491.07
1102(1) - Panel Board with Main & Branch Breakers	9.00	sets	76,905.00	12%	8%	20%	15,381.00	11,074.32	26,455.32	103,360.32	11,484.48	103,360.32
1102(5) - Manual Transfer Switch	1.00	set	28,271.50	12%	8%	20%	5,654.30	4,071.10	9,725.40	37,996.90	37,996.90	37,996.90
1102(18) -Solar panel with Inverter, battery and Other Divices	1.00	set	1,278,143.97	10%	8%	18%	230,065.91	180,985.19	411,051.10	1,689,195.07	1,689,195.07	1,689,195.07

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1105(18) - Network Cabling	950.00	lm	58,601.30	12%	8%	20%	11,720.26	8,438.59	20,158.85	78,760.15	82.91	78,764.50
1111(1) - 4" dia. Electrical with Concrete Pedestal	5.00	pcs	35,130.88	12%	8%	20%	7,026.18	5,058.85	12,085.03	47,215.91	9,443.18	47,215.90
1200 (13) - Air-conditioning	8.00	sets	728,507.84	12%	8%	20%	145,701.57	104,905.13	250,606.70	979,114.54	122,389.32	979,114.56
1201 - Water Pumping System	1.00	sets	79,080.40	12%	8%	20%	15,816.08	11,387.58	27,203.66	106,284.06	106,284.06	106,284.06
1202(7) -Fire Department connections 100mm x 65mm x65mm for Dry Type System	1.00	set	22,080.40	12%	8%	20%	4,416.08	3,179.58	7,595.66	29,676.06	29,676.06	29,676.06
1202(23) -Fire Hose Cabinet w/ Pipe	1.00	set	29,080.40	12%	8%	20%	5,816.08	4,187.58	10,003.66	39,084.06	39,084.06	39,084.06
1202(6)a1 -Fire Extenguisher(10 lbs)	3.00	units	9,132.16	12%	8%	20%	1,826.43	1,315.03	3,141.46	12,273.62	4,091.21	12,273.63
1200(5)b - Exhaust Fan(Wall Mounted with shutter)	4.00	set	33,106.00	12%	8%	20%	6,621.20	4,767.26	11,388.46	44,494.46	11,123.62	44,494.48
1208 -Fire Alarm System	1.00	set	73,202.25	12%	8%	20%	14,640.45	10,541.12	25,181.57	98,383.82	98,383.82	98,383.82

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ITEM NO./ DESCRIPTION	QTY	UNIT	DIRECT COST	MARK-UP IN PERCENT		TOTAL MARK-UP		[2] VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST	CORRECTED COST
				[1] OCM	PROFIT	%	VALUE					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (4)X(7)	(9)= 12%[(4)+(8)]	(10)= (8)+(9)	(11)= (4)+(10)	(12) (11)/(2)	(13) (12)*(2)
MISCELLANEOUS WORKS												
SPL - 1 Logo & Stainless Letters	1.00	set	107,400.00	12%	8%	20%	21,480.00	15,465.60	36,945.60	144,345.60	144,345.60	144,345.60
SPL -2 - Rain Water Harvesting System	1.00	LOT	253,612.00	12%	8%	20%	50,722.40	36,520.13	87,242.53	340,854.53	340,854.53	340,854.53
SPL - 3 -Built in White board	3.00	set	92,337.60	12%	8%	20%	18,467.52	13,296.61	31,764.13	124,101.73	41,367.24	124,101.72
SPL - 4 - Rubber Floor matting (1m x1m x 12mm)	187.20	sq.m.	513,808.32	12%	8%	20%	102,761.66	73,988.40	176,750.06	690,558.38	3,688.88	690,558.34
SPL - 5 - Built in audio and Sound System	1.00	set	910,000.00	12%	8%	20%	182,000.00	131,040.00	313,040.00	1,223,040.00	1,223,040.00	1,223,040.00
SPL - 6 -Furnitures	100.00	set	1,238,301.50	12%	8%	20%	247,660.30	178,315.42	425,975.72	1,664,277.22	16,642.77	1,664,277.00
SPL - 7 - Laboratory Equipments	1.00	set	250,000.00	12%	8%	20%	50,000.00	36,000.00	86,000.00	336,000.00	336,000.00	336,000.00
TOTAL:	**NINETEEN MILLION EIGHT HUNDRED ONE THOUSAND THREE HUNDRED SIXTY FIVE PESOS AND 42/100 ONLY**										P	**19,731,581.12**

Prepared by:
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University President

[1] OCM= Overhead, Contingencies and Miscellaneous
[2] VAT= Value Added Tax

TECHNICAL SPECIFICATIONS

The project calls for the **Construction of College of Education Child Research and Developmentment Laboratory Experiences (CRADLE)** of the **TARLAC AGRICULTURAL UNIVERSITY** located at Academic District, TAU Campus, Malacampa, Camiling, Tarlac.

SECTION I-A. DEFINITIONS

1. The term "Owner" as used in this Specification means the administration of the TARLAC AGRICULTURAL UNIVERSITY (TAU).
2. The term "Architect" or Design Architect" means TAU – Technical Working Group and the Planning and Development Office-Infrastructure Development, Land Use and Zoning Unit (PDO-IDLUZ) as the designer, planner and consultant of the owner.
3. The term "Engineer" or "Project Engineer" shall mean the person/s executing the contract in behalf of the Owner for the construction of the project, the Project Management Committee or duly authorized assistants or representatives.
4. The term "Contractor" shall mean the person/s or firm/s that shall perform the construction work that is to furnish and install, in accordance with the plans, specifications prepared by the Engineer and to finish the construction work as per agreement in relation to time schedule.
5. Wherever in the specifications or upon the drawings the words "directed", "required", "ordered", "designated", "prescribed", or words of like import are used, it shall be understood that the direction, requirements, designation, or prescription of the Project Engineer is intended; and similarly the words "approved", "acceptable to" of the Architect unless otherwise expressly stated.
6. Where "as shown", "as indicated", or words of similar import are used, it shall be understood that the reference is made to the drawings accompanying this contract unless stated otherwise.

SECTION I-B. GENERAL NOTES

1. SPECIFICATIONS AND DRAWINGS

1.1. The Contractor shall keep in the work place a copy of the drawings and specifications and shall at all times give the Project Architect/Engineer access thereto. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications, the specifications shall govern. In case of discrepancy in either in the figures, in the drawings, or specifications, the matter shall be promptly submitted to the Design Architect who shall promptly make a determination shall be at his, the Contractor, risk expense. The Design Architect shall furnish from time to time such detailed drawings and other information as he may consider necessary, unless otherwise provided.

1.2. Omissions from the drawings or specifications, or mistakes in descriptions of details of work which are manifestly necessary to carry out the intent of the drawings and specifications, or which are customarily performed, shall not relieve the Contractor from performing such omitted or mistook description details of work, but shall be performed as if fully and correctly set forth and described in the drawings and specifications.

1.3. Deviations from the drawings and dimensions therein given, whether or not error is believed to exist, shall be made only after written authority is obtained from the Architect.

2. PROGRESS PHOTOGRAPHS

2.1. The Contractor, at his expense, shall furnish to the Project Engineer progress photographs that shall be taken monthly starting when the work begins continuing so long as the work is in progress, on the exterior or interior of the building, from station points designated by the Project Engineer.

2.2. The photographs shall be in print out (legal size) and e-copies (CD or Flash Drive) with date stamps, to be submitted to the Project Engineer. The Contractor shall clearly identify in the photographs the type of work completed.

2.3. No partial payment shall be considered for approval without the above-mentioned prints.

3. SAMPLES AND BROCHURES PRIOR TO PROCUREMENT

3.1. As soon as practicable and before installation, the Contractor shall submit for approval samples and brochures of the following materials and equipment:

- 3.1.1. Floor and Wall Tiles
- 3.1.2. Paints
- 3.1.3. Doors and windows materials
- 3.1.4. Hardware (locksets, hinges, etc.)
- 3.1.5. Ceiling Materials
- 3.1.6. Roofing Sheets and Spandrels
- 3.1.7. Circuit Breaker and Panel Board
- 3.1.8. Switches, Outlets & Lighting Fixtures
- 3.1.9. Exhaust, Ceiling Fans and Air conditioning Unit
- 3.1.10. Fire Protection System
- 3.1.11. Sewer and water pipe
- 3.1.12. Toilet fixtures
- 3.1.13. Waterproofing

3.2. Other additional materials which require submittal of requirements shall be as mentioned in the other sections of these specifications.

3.3. The architect reserves the right to take samples of materials other than those listed above at any time during the contract to ensure conformance to the specifications.

4. **SHOP DRAWINGS, SAMPLES, BROCHURES, ETC. SUBMITTAL PROCEDURES**
   4.1. The Contractor shall submit approval, at least two (2) copies of shop drawings of the following prior to their fabrication or installation:

   4.1.1. Shop drawings of electrical panel boards and control equipment;
   4.1.2. Shop drawings of steel frame window adapting existing window designs;
   4.1.3. Schedule of rebars, bar cutting list, splices and bending details;
   4.1.4. In addition to the drawings listed above, the Contractor shall furnish any and all sketches, drawings, perspectives, and/or diagram used in connection with the completion of the work to the Architect. Drawings submitted for review or approval shall be clearly identified as to their intended use in the project;
   4.1.5. The contractor shall submit to the Project Engineer and/or Architect all shop drawings, sample brochures, etc. After the Architect's action, retaining one copy, will return all copies to the Contractor.

5. **WORK NOT INCLUDED**
   5.1. Any work shown or specified which is not to be done as part of the contract will be marked "N.I.C." or will be specified in section 1A General Paragraphs of this Specifications.

6. **IDENTIFICATION OF EMPLOYEES**
   6.1. The contractor shall be responsible for furnishing to each employee and for requiring each employee engaged in the work to display such identification as maybe approved and directed by the Project Engineer. All prescribed identification immediately delivered to the Project Engineer for cancellation upon the release of any employee. When required by the Engineer, the Contractor shall obtain and police clearances of all persons employed on the project.

SECTION I-C GENERAL REQUIREMENTS

1. **TEMPORARY FACILITIES**

1.1 Light, Power, And Water

1.1.1. The contractor shall furnish temporary light, power and water, complete with connecting wiring, conduits, piping, lamps, meters, and similar equipment as required for the work. The Contractor shall install, maintain and remove his temporary lines upon completion of the work. All expenses in connecting with temporary services and facilities shall be paid by the Contractor. Subsequent to the setting of the permanent meters, the Owner will be responsible for payment of water and electrical bills rendered for utility service through the respective permanent meters. The Contractor, however, shall pay all costs incurred in the setting of the permanent meters.

1.2. Temporary Office And Sheds

1.2.1. The Contractor shall provide and maintain watertight office on the premises where directed for his own and subcontractor's use, and for use of the Project Engineer. This building shall be painted, provided with operating windows, doors with locks, table, benches, racks for drawings, and adequate electric lighting.
1.2.2. The contractor shall provide and maintain on the premises where directed, watertight storage sheds for all materials which might be damage by weather.

1.3. Temporary Toilets

1.3.1. The contractor shall install and maintain in a sanitary condition suitable toilets and urinals for use of workmen. These toilets should be in location approved by the Project Engineer and connected to existing sewer, when feasible, or maybe of the chemical type. There shall be a minimum of one (1) toilet for each multiple of thirty (30) contractor's employees or fractional part thereof, working at the job site.

1.4. Fences, Guards, Etc

1.4.1. The contractor shall provide such lights, guards, temporary fences and warning signs as may be necessary for safety during all the time from the execution of the contract until the completion of the work, and shall be responsible for the maintenance of lights, guards, fences and warning signs

1.5. Cleaning

1.5.1. Upon completion of each part of the work as defined by the sections into which these specifications are divided or as separated by the various trades involved in the work, each area shall be cleaned of debris emanating from the work. The Contractor shall remove remaining excess materials, waste, rubbish, debris, and his construction equipment from the premises. The said cleaning of the structure shall be broom-cleared, free of dust and particles. Any dirt or stains caused by the work under the contract shall be removed from the surfaces of the structure and from equipment and fixtures.

2. **GOVERNMENT FEES AND PERMITS**
   2.1. The contractor shall shoulder the processing and securing of building construction and occupancy permits including professional fees, plan blueprints, clearances and other pertinent documents.

3. **PROJECT BILLBOARD/SIGNAGES AND BARRICADES**
   3.1. The contractor shall provide a project sign fabricated to size that conforms to Commission on Audit (COA) specifications. The sign shall rigidly frame and erected at a location designated by the Project Engineer. No separate payment will be made for the sign, and all cost in connection therewith shall be included in the contract price for the project. Upon completion of the work, the sign shall be removed and disposed by the Contractor.
   3.2. Billboard information shall be updated at least every 30 days from the date of start of the project.
   3.3. Worksite must be isolated from the public by securing it with perimeter fence and warning signs.

4. OCCUPATIONAL SAFETY AND HEALTH PROGRAM

4.1. Appropriate Safety Personal Protective Equipment (PPE) shall be provided to all workers and staff in the site. First-aid kit cabinet with sufficient medicines shall be located in conspicuous places inside the worksite.

5. CONSTRUCTION QUALITY CONTROL

5.1. GENERAL. The Contractor shall establish and maintain quality control for testing of materials to be furnished by him in accordance with the specifications and for determination of densities as required in the specifications to assure compliance as specified. The testing agency shall be approved. Certified copies of detailed laboratory test reports, attesting compliance with the test requirements as prescribed in the applicable referenced publications shall be submitted in triplicate, together with the submission of samples for confirmation testing by the Owner as required, and shall contain the name and address of the testing laboratory and countersigned by the Contractor. In such instance the Contractor shall furnish written certification, prior to the performance of tests, that results of the work to be performed will not be used in litigation or for promotional purposes.

5.2. SAMPLING AND TESTING. Unless otherwise specified, materials to be sampled, time of submittal of samples, and other requirements for sampling shall be as specified in the various sections of each division under which the materials will be furnished. All samples for testing shall be provided by the Contractor at no additional cost to the Owner. Testing requirements specified herein shall apply both to Contractor as approved, and by an approved independent commercial testing laboratory at the Contractor's responsibility and expense. However, the Owner reserves the right to inspect or verify at any time the Contractor's quality control procedures by confirmation testing is made on test samples and the samples fail to meet specification requirements, the materials represented by the sample by the samples shall be replaced, and the cost of re-testing will be deducted from the payment due the Contractor. When reports or manufacturers certificates are required to be submitted by the Contractor, samples may still be required for the future Owner testing should the materials appear to be defective during or after installation or application.

5.3. MAINTENANCE OF RECORDS. The contractor will maintain current records of all inspections and tests performed on an appropriate approved format. These records will provide factual evidence that required inspections or test have been performed, including type and number of inspections or test involved; results of inspections or test; nature of defects; causes for rejection; proposed remedial action; and corrective action taken. These records will include inspection of materials as received at the job site for conformance with contract or submittal requirements as well as proper storage for protection against weather and construction activities. These records must cover both conforming and defective items and must include statement that all supplies and materials incorporated in the work are in full compliance with the terms of the contract. Legible copes must be furnished to the Project Architect/Engineer or his authorized representative for permanent retention. The report will cover all work placements subsequent to the previous report, and will be certified by the prime contractor's designated representative. A sample format will be utilized as a minimum Daily Construction Quality Control Report. Additional forms for specific operations may be required by the Project Architect/Engineer to supplement the quality inspection forms.

5.4. TIME REPORTS AND DEFICIENCIES. Records of jobsite inspections must be received prior to installation or incorporation of materials into the contract work. The Contractor will not be permitted to build upon or conceal any feature of the work containing uncorrected defects. Payment on deficient items will be withheld until satisfactorily corrected or other action has been taken and approved.

6. MOBILIZATION/DEMOBILIZATION

6.1. The Contractor upon receipt of the Notice to Proceed shall immediately mobilize and transport the needed plant, equipment, materials and employees to the site and demobilize or remove the same at the completion of project.

7. LIQUIDATED DAMAGES

7.1. The time of the completion of construction of the project is of the essence to the contract. Should the contractor neglect, refuse or fail to complete the construction within the time provided, then in the event and in view of the difficulty of estimating with exactness the damage caused by delay, the Owner shall have the right to deduct from and retain out such moneys which may become due and payable to the Contractor, the sum of one tenth (1\10) of one percent of the cost of the unperformed portion for every day of delay as liquidated damages and not as penalty.

SECTION II-A EARTHWORKS

ITEM 801 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

801.1. This Item shall consist of the removal wholly or in part, and satisfactory disposal of structures for repair, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed off under other items in the Contract. It shall also include the salvaging of designated materials and backfilling the resulting trenches, holes, and pits.

ITEM 803 STRUCTURE EXCAVATION

803.1. This Item shall consists of structure and drainage excavation and the disposal of material in accordance with this Specification and in conformity with the lines, grades and dimensions shown on the Plans or established by the Engineer.

803.2. This Item will includes excavation and grading for footings, footing tie beams, septic tanks, cisterns, drainages; removal of unsuitable material beneath embankment areas; and excavating selected material found in the project site as ordered by the Engineer for specific use in the improvement.

803.3. All excavations shall be finished to reasonably smooth and uniform surfaces. No materials shall be wasted without authority of the Engineer. Excavation operations shall be conducted so that material outside of the limits of slopes will not be disturbed. Prior to excavation, all necessary clearing and grubbing in that area shall have been performed in accordance with Item - Clearing and Grubbing.

ITEM 804a – EMBANKMENT FROM STRUCTURE EXCAVATION

804a.1. All suitable material removed from the excavation shall be used in the formation of the embankment, and backfill for structures, and for other purposes shown on the Plans or as directed.

804a.2. The Engineer will designate as unsuitable those soils that cannot be properly compacted in embankments. All unsuitable material shall be disposed-off as shown on the Plans or as directed without delay to the Contractor.

ITEM 804c – GRAVEL BEDDING

804c.1. This Item shall consists of furnishing, placing and compacting crushed gravel, crushed stone or crushed rock on a prepared footing subgrade in accordance with this Specification and lines, grades, thickness and typical cross-sections shown on the Plans or as established by the Engineer.

804c.2. Material shall consist of hard, durable particles or fragments of stone or gravel crushed to the size and of the quality requirements of this Item. It shall be clean and free from vegetable matters, lumps or balls of clay and other deleterious substances. The material shall be of such nature that it can be compacted readily to form a firm, stable base.

ITEM 807(1) – SITE DEVELOPMENT

The contractor shall develop the driveway indicated in the plan using gravel surface and paving blocks. The work includes subgrade, subbase preparation using approved materials and garden soil for the landscape. Species of ornamental plants that will be used in the building landscape shall be submitted for approval before planting will commence.

SECTION II-B STRUCTURAL WORKS

ITEM 900 – STRUCTURAL CONCRETE

900.1. The Item includes structural concrete, complete for the construction of new structure such as ***column and wall footings, tie and ground beams, columns, suspended and roof beams, slabs, ledges, staircases, ledges, gutters and all other structural sections in the plan.***

900.2. The scope of this section includes furnishing of all labor, materials, equipment and other facilities until the satisfactory completion of all concrete work shown on the drawings and specifications herein.

900.3. All concrete works shall be done in accordance with the "Specifications for Concrete and Reinforced Concrete" as adopted by the Department of Public Works and Highways, Philippines, and the current American Concrete Institute's "Building Code Requirements for Reinforced Concrete" ACI-318-71 and its earlier predecessor ACI-318-63 or "The Latest National Structural Code for Buildings".

900.4. Cement: Portland cement shall conform to ASTM C 150-76 for type 1 Portland Cement. Use of "Admix" is not prohibited as long it is within the required/specified strength. Minimum ultimate strength fc' = 20MPa in 28 days.

900.5. Concrete Aggregates shall be well graded, clean, hard particles of gravel or crushed rock conforming to the "Specifications for Concrete Aggregates" (ASTM C 33 latest revision). Minimum size shall not be larger than one-fifth (1/5) of the narrowest dimension between forms and not larger than three-fourths (3/4) of the minimum clear spacing between bars.

900.6. Water shall be clean and free from injurious amounts of oils, acids, alkali, organic materials and other substances that may be deleterious to concrete or steel.

ITEM 902 – REINFORCING STEEL

902.1. The work includes reinforcing steel for concrete, complete for the construction of new structure such as ***column and wall footings, tie and ground beams, columns, suspended and roof beams, slabs, ledges, staircases, ledges, gutters and all other structural sections in the plan.***

902.2. Steel reinforcement shall be new and free from excessive rust, oil, defects, grease or kinks. They shall conform to the specification for reinforcing bars PNS49:2000 or the latest revision of ASTM A 615 "Specifications for Billet – Steel Bars for Concrete Reinforcement". Minimum yield strength shall be at least FY=275mpa.

902.3. All reinforcing bars requiring bending shall be cold-bent to the shapes shown on the Plans or required by the Engineer. Unless otherwise shown on the Plans, bars shall be tapped a minimum distance of 24 bar diameter but not less than 300mm.

ITEM 1047 – STRUCTURAL STEEL

1047.1. The work of this section cover all structural steelworks including all works associated with the structural installation. The work also includes all fabricated steelwork items for the project like ***structural frames for main roof and canopies together with associated works.***

1047.2. All materials supplied shall be new undamaged and true to specification. Structural elements shall as specified on the Engineering Drawings. All materials shall be free of imperfections and ferrous metals shall be free of serious rust damage. Substitution of specified materials will not be allowed.

1047.3. All erection procedure including setting out, security during erection, site welding, hold down bolts etc. shall be carried out in accordance with industry standards and best current safe working practices.

1047.4. Structural and steelwork is to be carried out in accordance with the AISC Specifications for the design, fabrication and erection of structural steel buildings.

1047.5. Construct, fabricate and erect all documented items in accordance with the detailed drawings providing al necessary heavy duty fixings, fastenings, and fittings necessary to complete the works.

1047.6. All ferrous metal products and fabricated items shall be covered with ***Epoxy Metal Primer paint*** on completion of fabrication.

SECTION II-C FINISHING WORKS

ITEM 1001 and 1002 STORM DRAINAGE, SEWERAGE SYSTEM, PLUMBING AND PLUMBING FIXTURES

1001.1. This Item consists of furnishing all materials, labor, tools, equipment and other facilities and the ***satisfactory performance of all work necessary for the complete installation, testing and operation of the plumbing system in accordance with the applicable drawings*** and this section of the specifications consisting of, but not necessarily limited to the following.

1001.1.1. Building sanitary sewers and collection systems up to the proposed Septic tank and to the existing drainage utilities.
1001.1.2. Building storm drainage system.
1001.1.3. Soil, waste, and vent pipe systems, within the building.
1001.1.4. Disinfection, pressure, leakage testing of building water distribution system.
1001.1.5. Leakage testing of all building and sanitary drainage system.
1001.1.6. Installation of plumbing fixtures fittings, trims and accessories.
1001.1.7. Installation of fire protection system.
1001.1.8. Any and all other work involved in providing the complete operational of the domestic water supply system, sanitary plumbing and storm drainage systems to the above named project. All work shall be performed in accordance with the requirements of all applicable laws of the Republic of the Philippines and all codes and ordinances of the locality.

1001.2. Plumbing work to be done and sizes of pipes to be used shall be in accordance with the **NATIONAL PLUMBING CODE OF THE PHILIPPINES** and the requirements and ordinances of the locality.

1001.3. It is needed that the drawings shall show every pipe, fitting, valve and appliance. All such items, whether specifically mentioned or not, indicated on the drawings, shall be furnished and installed if necessary to complete the system in accordance with the best practice of the plumbing trade and to the satisfaction of the Architect,

1001.4. The work throughout shall be executed in accordance with the best practice of the trade and in the best and most thorough manner under the direction of a licensed Master Plumber or Sanitary Engineer and to the satisfaction of the Engineer and Architect, who will interpret the intent of the Contract drawings and specifications and shall have the power to reject any work and/or materials which are not in full accordance therewith.

1001.5. No piping in any location shall be closed-up furred-in or before the examination and testing of the same by the inspector, owner of their representative.

1001.6. **PLUMBING PRESSURE TEST** shall be done prior to finishing and other related works.

1001.7. Plumbing Lines for cold water lines and fittings to be used shall be **PP-R pipes.** All sanitary lines shall be **PVC pipes,** "Neltex", "Atlanta", "Emerald" or equivalent.

1001.8. The Plumbing Contractor shall be responsible for the supply of fixture fittings (or trims) which are not provided with the fixture but required for the complete installation. All fixtures shall be carefully checked to determine the items which must be provided to complete the installation.

1001.9. All fixtures shall be provided with individual shut off valve for water supplies so that any fixture may be separately controlled without affecting other fixtures supplied from the same distribution line.

1001.10. **WATER CLOSETS WITH BIDET** (HCG or equivalent) with complete accessories.

1001.11. **LAVATORY** combination of wall hang and concrete counter, finished with granite tiles. Tile trims shall be provide on tile exterior corners. Use HD Chrome finish faucets complete with valve and accessories.

1001.12. SHOWER BOOTH/ROOM shall be installed with chrome-finish telephone shower and 4" floor drain.

1001.13. **URINALS** (HCG or equivalent), china white, complete with valve and accessories with pressurized laminated wood particle board partition mounted on stainless steel brackets and bolts.

1001.14. **TISSUE HOLDERS** shall be stainless steel fastened on locations to be determined by the Engineer.

1001.15. **MIRROR** – refer to item 1012

1001.16. **FAUCETS** shall be chrome-finished, heavy duty goose-neck type with angle valve and flexible supply hose. Slop sink faucet shall be bronze-finish hose bibb.

1001.17. Rough-in for pipes and fixtures shall be carried along with building construction. Correctly located openings of proper sizes shall be provided when required, in the walls and floors for the passage of pipes. All items to be embedded in concrete shall be thoroughly cleaned and shall be free from rust, scale and paint.

1001.18. **Cleanout Plugs:** Cleanout installed in connection with PVC pipes shall consists of a long sweep quarter bend, or one or two eight bends extended to an easily accessible place, or where indicated on the drawings.

1001.19. **Traps:** Every plumbing fixture connected to the sanitary drainage system, including shower drains shall be equipped with trap. Traps are specified to be supplied with the fixture i.e., water closets and urinals.

1001.20. Pipe sleeves, pipe and supports and fixture supports shall be furnished and set, and the Contractor shall be responsible for their proper and permanent locations.

1001.21. Pipes shall not be permitted to pass through columns, footings, beams or ribs, unless noted on the drawings or with the written approval of the Engineer.

1001.22. **Septic Tanks and Catch Basins** shall be made of CHB walls and reinforce concrete slabs as shown in the plans. Inlet, outlet and vent elevations shall be adjusted according to site condition.

ITEM 1003 (1) CEILING WORKS

1003.1. **External Ceiling Works.** Use 0.4mm thick pre-painted metal spandrel with vents on fabricated pre-painted metal end mouldings.

1003.2. **Internal Ceiling Works.**

Use light metal furrings ceiling joists spaced at 400 x 400mm furring with carrying channel at 600 mm spacing.

Ceiling board shall be 4.8mm thk. Fiber Cement board and 9mm Gypsum board as reflected in the plan.

Cove and drop ceiling details (if any) are also shown in the plan.

Use Pre-painted aluminum T-runner with 600 x 600mm fine fissured 19mm thick acoustic board as indicated in the plan

1003.3. **Pressurized Laminated Wood Particles.** Use laminated particle board with S/S or PVC brackets for toilet partitions.

ITEM 1007 – ALUMINUM AND ALUMINUM GLASS PANEL DOORS (Sliding and Swing-type)

1007.1. The work includes labor, materials, equipment and other facilities to and the satisfactory performance of all works necessary to complete all glass doors shown on drawings.

1007.2. Aluminum Glass doors shall be made of "analok" finish frames with tempered glass as shown in the plan.

1007.3. Frame and panel members shall be fabricated from extruded aluminum section true to details with clean, straight, sharply defined profiles and free from defects impairing strength or durability. Extruded aluminum section shall conform to the specification requirements defined in ASTM B 211.

1007.4. Screws, nuts, washers, bolts, rivets and other miscellaneous fastening devices shall be made of non-corrosive materials such as aluminum, stainless steel, etc. Hardware for fixing and locking devices shall be closely matched to the extruded aluminum section and adaptable to the type and method of opening. Vinyl weather strip shall be first class quality flexible vinyl forming an effective seal and without adverse deformation when installed. Pile weather strip shall be silicon treated and free from residual wetting agents and made of soft fine as wool, fur, etc.

ITEM 1008 - ALUMINUM GLASS WINDOWS (Fixed, Sliding, Casement and Awning)

1008.1. The work includes labor, materials, equipment and other facilities and the satisfactory performance of all works necessary to complete all metal windows shown on drawings.

1008.2. Frame and panel members shall be fabricated from extruded aluminum section true to details with clean, straight, sharply defined profiles and free from defects impairing strength or durability. Extruded aluminum section shall conform to the specification requirements defined in ASTM B 211.

1008.3. Screws, nuts, washers, bolts, rivets and other miscellaneous fastening devices shall be made of non-corrosive materials such as aluminum, stainless steel, etc. Hardware for fixing and locking devices shall be closely matched to the extruded aluminum section and adaptable to the type and method of opening. Vinyl weather strip shall be first class quality flexible vinyl forming an effective seal and without adverse deformation when installed. Pile weather strip shall be silicon treated and free from residual wetting agents and made of soft fine as wool, fur, etc.

1008.4. For all assembly and fabrication works the cut end shall be true and accurate, free of burrs and rough edges. Cut-outs recesses, mortising and grinding operation for hardware shall be accurately made and properly reinforced.

1008.5. All panel and frames shall be aluminum analok-finish, glazed with 6mm thick reflective glass for exteriors and clear glass for interiors.

ITEM 1010 - DOORS AND FRAMES

1010.1. The work includes labor, materials, equipment and other facilities and the satisfactory performance of all works necessary to complete doors shown on drawings.

1010.2. All Door Frames/Jambs shall be made of GA 16 galvanized Steel/metal Jambs.

1010.3. All Wooden Panel Doors (except comfort doors)shall be made of guijo hard wood, kiln dried with ¼" thk viewing and transom glass panel at specified location. (See Schedule of Doors)

1010.4. Doors for PWD comfort rooms shall be provided with double action hinge and push/kick plate.

1010.5. All other comfort room doors shall be provided with louvers at the bottom portion of the door leaf.

1010.6. With complete accessories means all doors shall have a necessary bearing type hinges, double deadlock sets, doorknobs, stopper.

1010.7. No door units shall be allowed in any case to be installed in place in the formwork previous to pouring concrete. Instead, grooves for grouting shall be caused to form along sides and heads of all openings. Concrete below sills of opening shall be higher in the inside than the outside portion of Zocalo wall.

1010.8. Doors shall be erected in prepared openings by experiences window erection man. They shall be set plumb and true, securely wedged and anchored as shown on detail drawings and held on alignment during construction. Joints and mullions shall be bedded in mastic supplied by the manufacturer between connections.

1010.9. Standard anchors, clips, mullions and bolts shall be provided by manufacturer.

ITEM 1014 – PREPAINTED METAL SHEETS

1014.1. The work includes furnishing all materials and performing all operations to provide the metal roofing sheets and bended metal sheet accessories as required providing a watertight installation. The surfaces to which roofing is to be applied shall be thoroughly clean and dry and free from any defect that might affect the application. Specific installation details shall be in accordance with recognized sheet metal installation practice.

1014.2. Pre-painted metal roofing sheets shall be 0.50 mm base metal thickness, longspan Pre-painted Rib Type and 0.50mm base metal thickness, pre-painted, plain sheets for areas indicated in the plan.

1014.3. Bended Metal Sheet Accessories (such as ridge roll, flashings, ventilation, louver, etc.) shall be pre-painted and same thickness as the roofing sheets.

1014.4. Provide insulation in between the roofing material and Cee-Purlins. Use two bubble, two aluminum foil insulation, commercially available (Polynum Premium – ACEG or PE or bubble insulation). With applicable welded wire mesh support or equivalent. This shall be approved first by the Architect.

1014.5. Fasteners. All fasteners shall be of the appropriate tekscrews with neo-prene washers.

1014.6. Rivets. All rivets shall be aluminum blind rivets for end fastening to bended metal sheet accessories prior to sealing.

1014.7. Sealant. Use non-acid based elastomeric sealant for end joints, side lap joints and sealing holes.

1014.8. Except as specified herein, all materials shall be installed in accordance with the manufacturers printed installation instructions. Care shall be exercised in storing, handling and installing to prevent any damage to roofing and siding sheets. The sheets shall be of standard size type or long-span type with no end lapping. Sizes of fasteners used in installation shall be as recommended by the manufacturer. All metal shaving shall be swept and removed from roof on completion of the work.

1014.9. Joints sealing materials shall be provided to seal joints in and around sealing strips or ridges, waves, valleys and bolt holes before inserting fasteners, for all flashings and elsewhere as necessary to provide water-tight construction.

1014.10. Fastenings. All end laps in roofing shall not be less than 310 mm. All roofing sheets shall be fastened to framing members with the fasteners specified herein.

ITEM 1016 – WATERPROOFING

1016.1. Water proofing paint shall be applied on floors and walls of second and third floor comfort rooms.

1016.2. Waterproofing add-mixture shall be added in 2nd and 3rd level floor concrete topping at the ratio of 1 kg admix for every bag of cement. Waterproofing paint shall then be applied in two (2) coats on the finished surface of the concrete topping.

1016.3. Use manufacturer recommendation on the proper mixing and application.

ITEM 1017 – GUTTER DRAIN WITH STRAINER

1018.1. Use 75mm diameter UPVC or cast iron, heavy gauge aluminum body, stainless steel clamping ring with stainless steel snap-on grate

1018.2. Use "ProSeal" brand or approved equivalent mechanical seal to prevent water back-up problem.

ITEM 1018 – TILE WORKS

1018.3. Use Granite slabs and600mm x 600mm synthetic granite tiles on all floors shown in the plan.

1018.4. Use 600mm x 600mm glazed tiles or its equivalent shall be used on all common comfort rooms' walls and 300mm x 600mm glazed granite tiles as accent on all other comfort rooms' walls and counter splash walls.

1018.5. Use 600mm x 600mm unglazed tiles or its equivalent shall be used on all common comfort rooms' floor and 600mm x 600mm unglazed tiles on all other comfort rooms' floors.

1018.6. Comfort room wall tiles shall be from floor to ceiling height with accent colored tiles as shown in the detailed drawing.

1018.7. PVC Trimmings shall be provided on all external edges of tile floors and walls.

1018.8. Ceramic & other tiles shall be free from laminations, serrated edges, chipped of corners and other imperfections affecting quality, appearance and strength as approved by the architect.

1018.9. Contractor shall submit one sample for each color and size intended to be used for the approval of the architect and the owner.

1018.10. Use tile adhesive bostik brand, sika, or admix tile bond or sakura or heavy duty ABC tile adhesive. Use the required recommended direction of the supplier.

ITEM 1027 - CEMENT PLASTER FINISH

1027.1. For plain cement finish wall, surface shall first be thoroughly cleaned by brushes and with small jet from a high special hose. All dirt shall be removed from crevices and depressions. After surface has been wet, it shall be grouted with 1:1 grout, then ¾" thick finish composed of one part cement and 2 ½ parts of sharp clean mixed with 2 to 3 gallons of water per bag of cement shall be applied, rammed, screened and floated. This shall be troweled when sufficiently dry to a smooth hard finish using a light dusting of cement only. Corners shall be beveled at ¾" from plain surface. Use of addmix is encouraged so long it conforms to specifications.

1027.2. Also, there are v-cut groove 45 Degree 2" thk. as specified in the plans. It should be properly aligned along parapet and shall be done in excellent workmanship.

ITEM 1032 - PAINTING WORKS

1032.1. The work includes labor, materials, equipment and other facilities and the satisfactory performance of all work necessary to complete all painting according to approved color schemes.

1032.2. All paint materials shall meet the requirements of the Standard Specifications on supplies and shall be delivered to site on its original containers with labels intact and seals unbroken. Use materials only as specified by manufacturer's direction on label of containers.

1032.3. All concrete surfaces shall be allowed to weather or fully cured before painting.

1032.4. All the following shall be done prior to painting or varnishing job.

a. All spaces shall be broom clean.
b. All dust, dirt, grease, plaster and other foreign matters which would affect the finish work shall be removed.
c. All wood work shall be sanded lightly with #100 sandpaper between coats. Paint coats shall be thoroughly dry before sanding. All nail holes shall be counter-sunked and applied with putty.
d. Clean all wrought iron or cast iron works of all dirt and grease before using benzene. Remove rust and scale down to bars metal using sand paper or wire brush.

1032.5. All materials shall be evenly applied on, so as to form a film of uniform thickness, free from sags, run, crawls, or other defects.

1032.6. Unless otherwise specified and/or instructed by the architect due to actual conditions on the job, no less than 48 hours shall elapse between applications of succeeding coats.

1032.7. Unless otherwise specified, all paints shall be applied in four (4) coats (priming, body and finishing coats). Surface which cannot be satisfactorily finished in the number of coats, or such preparatory and subsequent coats as per required to produce satisfactory finished work.

ITEM 1046 - CONCRETE HOLLOW BLOCK (NON-LOAD BEARING)

1046.1. The work includes all masonry works ***complete for the CHB wall partitions and all other works requiring concrete masonry.***

1046.2. Concrete hollow blocks shall be machine-built with minimum shell thickness of 25mm (1-inch). Brand or equivalent.

1046.3. Mortar Portions shall consist of 1 part Portland Cement and 3 parts sand. Plaster portions shall consist of 1 part Portland Cement, 2 parts sand.

1046.4. Steel reinforcing bars shall conform to requirements of structural specifications.

1046.5. Masonry units shall be laid plumbed, leveled and accurately spaced. All units shall be wetted before laying. Blocks should be laid in full mortar bedding and that no cracks shall form between blocks and mortar at time block is placed. Position of blocks shall never be shifted after the mortar has stiffened.

1046.6. Masonry units shall extend beyond ceiling level and anchored to concrete slab or beam. All reinforcements shall conform to general construction notes and plans.

1046.7. Cement and aggregates to be used shall have the specifications stated in ITEM 900.

ITEM 1051 - STEEL AND WOOD RAILINGS

1051.1. The work of this section cover all stainless steel and steel works for ***stairs, PWD railings and grills*** including all work associated with the installation.

1051.2. All materials supplied shall be new undamaged and true to specification. Structural elements shall as specified on the Engineering Drawings. All materials shall be free of imperfections and ferrous metals shall be free of serious rust damage. Substitution of specified materials will not be allowed.

1051.3. Construct, fabricate and erect all documented items in accordance with the detailed drawings providing al necessary heavy duty fixings, fastenings, and fittings necessary to complete the works.

1051.4. All ferrous metal products and fabricated items and all welded connections shall be covered with ***Epoxy Metal Primer paint*** on completion of fabrication.

1051.5. Replace existing wood railings with Tanguile wood or approved equivalent.

SECTION II-D ELECTRICAL WORKS

ITEM 1100 – GENERAL REQUIREMENTS

1100.1. The Contractor shall furnish all electrical materials and equipment, and perform all the work necessary for the complete execution of all the electrical work as shown on the Electrical Plans, and the general construction drawings, as herein specified, or both.

1100.2. The work under this contract shall be made in accordance with requirements of the Philippine Electrical Code, the rule and regulations of Municipal Engineers Office, Provincial Engineers Office and so with the requirement of the TARELCO. Nothing contained in these Specifications or shown on the Drawings shall be constructed as to conflict to the latest national and local ordinances or laws governing the installation of electrical works, and all such laws and ordinances are hereby made part of these Specifications. The Contractor is required to meet the requirements thereof.

1100.3. The plans drawn are based upon the architectural plans and details and show conditions as accurately as it is possible to indicate them in scale. The plans are diagrammatical and necessarily fit to the building conditions. The locations of outlets, apparatus, and appliances shown on the plan are approximate. The Contractor shall be responsible for the proper location in order to make them fit with the Architectural details, standard engineering requirements.

1100.4. All materials shall be new and shall conform with the standards of the Underwriter's Laboratories, Inc. ASA, USASI, IEE, NEMA, I.P., CEA, and A.S.T.M. in every case where such standards has been established for the particular type of material in question. Samples of all materials shall be submitted for approval as required by the Project Architect or Engineers.

ITEM 1100 (a) – CONDUITS, BOXES AND FITTINGS

1100.1. General conduits shall be Polyvinyl Chloride (uPVC)for branch circuits and RSC for the main line. uPVC shall be used for all installations underneath or inside floor slabs directly in contact with the ground or the finish grade or underneath roadways or driveways, all installations inside or embedded on concrete and masonry works and all installation inside ceiling and wooden double walls.

1100.2. Conduits and tubings shall be concealed within finished wall, steel framings and floor slabs, when surface mounted, shall be supported adequately by pipe clamps 1.5m intervals maximum, cable hanger or any support perpendicular to the walls or structure of the members. Conduits installed in the ground or fill beneath the floor slabs be buried a minimum of 0.6 m depth and encased in 0.1 m of concrete all around to withstand a vertical load of 2,000 psi. No PVC conduit shall be permitted above ground unless adequately protected against damaged and approved by the Engineers.

1100.3. No conduit shall be used in any system smaller than 20mm diameter electric trade size, nor shall have more than four 90 degrees bend in any one run, and where necessary, pull boxes shall be provided as directed.

1100.4. The Contractor shall use if possible single brand of approved conduits for uniformity of manufacturing.

1100.5. Junction and pull boxes of code steel gauge shall be provided as indicated or as required for facilitating the pulling of wires and cables. Pull boxes in finished places shall be located and installed with permission and to the satisfaction of the Project Architect or Engineers.

1100.6. Data Cable raceways shall be 2" x 8" GI Purlins supported with suitable steel brackets on locations as shown in the plan.

1100.7. Provide 16Ømm x 2.4m ground round imbedded on soil and properly connected to the ground line of the circuit.

ITEM 1101 – WIRES, CABLES AND DEVICES

1101.1. This item includes all electrical wires and cables, and all the work necessary for the complete installation of electrical lines inside and outside the structure including ***distribution drop lines and electric pole*** from the nearest main line source.

1101.2. All wires and cables shall comply with the requirements of the Underwriter's Laboratories, the A.S.T.M. and I.P.C.E.A. as they apply to the particular usage. Unless otherwise indicated or specified, conductors shall be type THHN. In any case, no conductor shall be smaller than No. 3.5 mm^2 shall be used. Circuit homeruns to panel board shall not be smaller than No. 3.5 mm^2, but all homeruns to panel board more than 30 meters shall not be smaller than 2.6 mm diameter.

1101.3. All wires shall be copper, soft drawn and annealed, shall have 98% conductivity, shall be smooth and true and of cylindrical form and shall be within 1% of the total actual size called for.

1101.4. Wires and cables shall be plastic insulated for 600 volts working Pressure, type "T" unless otherwise noted on plans.

1101.5. All wires and cables shall be as manufactured by Phelps Dodge, Columbia, American Wire and Cable or approved equivalent.

1101.6. The Contractor shall use if possible single brand of approved wires and cables for uniformity of manufacturing.

1101.7. Wall switches shall be rated at least 10A, 250 Volts and shall be spring operated, flush, tumbler type. Duplex convenience receptacles shall be rated at least 15A, 250 Volts, flush, parallel slot single heavy duty receptacles for AC shall be rated at least 20 A, 250 Volts, wire, flush, polarize type.

1101.8. system shall consists of an interior system of conduits and wiring, outlet boxes, faceplates, junction boxes, terminal strips, and their cabinets, etc, as shown on the plans. The entire layout shall be installed as indicated on the drawings in accordance with the requirements.

1101.9. All wiring shall be run in uPVC conduit or cable trays unless otherwise specified. Cable wire shall be UTP Cat6 on RJ45 connector/terminals and telephone wire RJ11 connectors and outlets.

1101.10. Outlet boxes for computer instruments shall be of the size and type to suit individual location.

1101.11. Junction and pull boxes shall be the size and shape required for easy pulling of UTP cables. Computer jack outlet shall be provided where shown on the drawings.

1101.12. The Contractor shall provide and install provision for wireless access points as shown on the drawings.

ITEM 1102 – PANEL BOARD AND CABINETS

1102.1. All panelboards for light and power shall conform to the indication of the drawings with respect to the supply characteristics rating of main lugs or main breakers, number and sizing of branch circuit breakers.

1102.2. Panelboard shall consist of a factory complete dead front assembly of back plan, main busbars, over current and switching units, sheet metal cabinets and terminal cabinets and shall be properly finished inside and outside in an approved manner to prevent corrosion.

1102.3. Panelboard main bus work shall be ampacity rated to equal or exceed overcurrent protective device immediately ahead of it. All busworks shall be properly secured to withstand available short circuit forces at the location.

1102.4. Circuit Breakers shall be **bolt-type** "General Electric" brand or approved equivalent.

1102.5. Main **Manual Transfer Switch** shall be off approved type and power rating.

ITEM 1015 – NETWORK EQUIPMENT AND CABLING

1015.1 Internet switch shall be installed inside the building and each room shall be provided with wireless internet access .

1015.2 Cable wire shall be UTP Cat6 on RJ45 connector/terminals and telephone wire RJ11 connectors and outlets.

1015.3 Junction and pull boxes shall be the size and shape required for easy pulling of UTP cables. Computer jack outlet shall be provided where shown on the drawings.

1015.4 The Contractor shall provide and install provision for wireless access points as shown on the drawings

ITEM 1103 – LIGHTING FIXTURES

1103.1. All lightning fixtures to be installed shall be LED, refer to electrical plan for the detailed specification. LED lamps to be used shall be "Philips" brand or approved equivalent.

1103.2. Emergency lights shall be installed on areas indicated in the plan.

ITEM 1200 – HVAC

1200.1. Provide metal-blade 16" orbit fans and at least 10" exhaust fans on locations shown in the plans.

1200.2. Air conditioning unit: Use 2.5 Hp Inverter-type wall mounted including appropriate circuit breakers shall be installed on locations shown in the drawings.

1200.3. Existing air conditioning units shall be refurbished and transferred to the location shown in the plan.

ITEM 1201 – WATER PUMP SYSTEM

1201.1. One booster pump 2hp with 2000 liters elevated S/S tanks with complete accessories shall be installed at the back of the building enclosed with steel housing on concrete base.

ITEM 1202 – FIRE ALARM AND PROTECTION SYSTEM

1202.1. Dry Stand Pipe. Install 150mmØ dry stand pipe connecting fire hose cabinet to the fire department inlet (Siamese connection) located in front of the building.

1202.2. Fire Hose Cabinet. Hose and valve assembly as manufactured by "POTTER-ROEMER" Manufacturing Company or approved equal.

1202.2.1. Hose - 40 mm diameter, 30.0 m Single Jacket, Rubberlined,

1202.2.2. Nozzle - combination fog and solid stream, 40 mm diameter, chrome plated,

1202.2.3. Rack - semi-automatic, chrome plated,

1202.2.4. Angle type, Pressure Reducing or restricting Valve - 40 mm diameter, chrome plated polished trim, 110 m water pressure, provide with nipple and union patent, set at 70 m water pressure,

1202.2.5. Hose Nipple - for components, shall be chrome plated.

1202.2.6. Provide t w o (2) universal spanner wrenches,

1202.3. Cabinet - full flush mounting door with anodized colored aluminum for all glass plate, frame and box shall be No.18 gauge steel with white interior baked enamel finishes over primer. Cabinet size shall contain the above components.

1202.4. Fire Extinguishers. Provide 10-pound Dry Chemical Portable Fire Extinguishers with housing on locations shown in the plan.

SECTION III- MISCELLANEOUS WORKS

SPL 1 . LOGO AND STAINLESS LETTER CUT-OUTS

Stainless steel letter and logo cut-out shall be installed on building façade as shown and detailed in the drawings.

SPL 2 . RAIN WATER HARVESTER

SPL 2.1 This Item shall consist of furnishing and installation of rain water harvester system, inclusive of all piping and pipe connections, valve, controls, tanks and all accessories ready for service in accordance with the approved plans and specifications. (See Attached Annex A)

SPL 3 . BUILT-IN WHITE BOARD

SPL 3.1 This Item shall consist of furnishing and installation of white board in accordance with the approved plans and specifications. (See Attached Annex A)

SPL 4 . RUBBER FLOOR MATTING(12mm x 1m x 1m)

SPL 4.1 This Item shall consist of furnishing and installation of 1m x 1m x 12mm rubber floor matting in accordance with the approved plans and specifications. (See Attached Annex A)

SPL 5 . BUILT-IN AUDIO AND SOUND SYSTEM

SPL 5.1 This Item shall consist of furnishing and installation of complete set with accessories of Audio and sound system accordance with the approved plans and specifications. (See Attached Annex A)

SPL 6 . FURNITURES

The following furniture shall be provided by the contractor:

a. Childrens Table with 3 chairs – 24 sets
b. Visitors Chair – 10 pcs
c. Lecture Tables – 20 pcs
d. Office Table with Chair – 6 sets
e. Conference Table – 8 pcs
f. Conference Chairs – 24 pcs
g. Arts Tables and Chairs with 6 chairs – 4 sets
h. Working Tables – 4 sets

SPL 7 . LABORATORY EQUIPMENTS

SPL 7.1 This Item shall consist of furnishing and installation of laboratory equipment in accordance with the approved plans and specifications. (See Attached Annex A)

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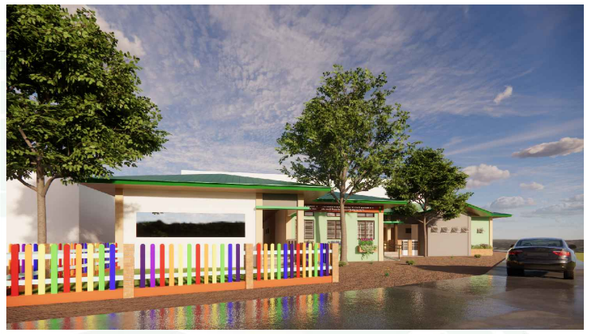
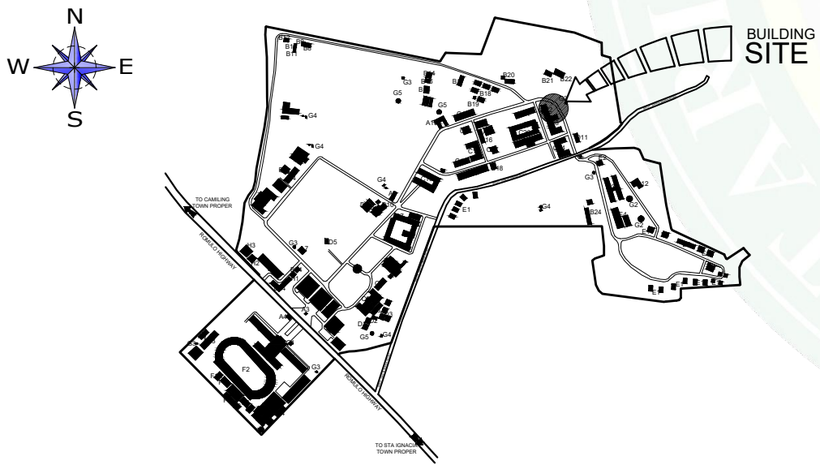
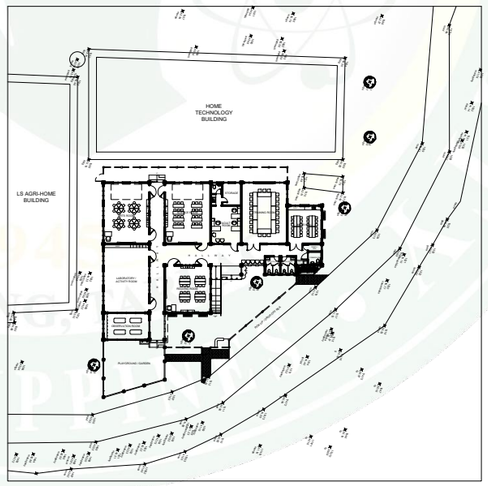


PERSPECTIVE VIEWS



LOCATION MAP
SCALE N T S



SITE DEVELOPMENT PLAN
SCALE 1:800 MTS

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIALS

DISTRICT / CITY / MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL

MECHANICAL

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TARLAC AGRICULTURAL UNIVERSITY
CAMILING TARLAC

PLANNING AND DEVELOPMENT OFFICE

INFRASTRUCTURE DEVELOPMENT, LANDUSE AND ZONING UNIT

ARCHITECT:

IAPOA NO:

PRC NO: | PTR NO:

TIN NO: | DATE:

PLACE :

R.A 9266 SECTION 33

ENGINEER:

PRC NO: | PTR NO:

TIN NO: | DATE:

PLACE :

PROJECT TITLE :

CONSTRUCTION OF COLLEGE OF EDUCATION CHILD RESEARCH AND DEVELOPMENT LABORATORY OF EXPERIENCES

LOCATION :
TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

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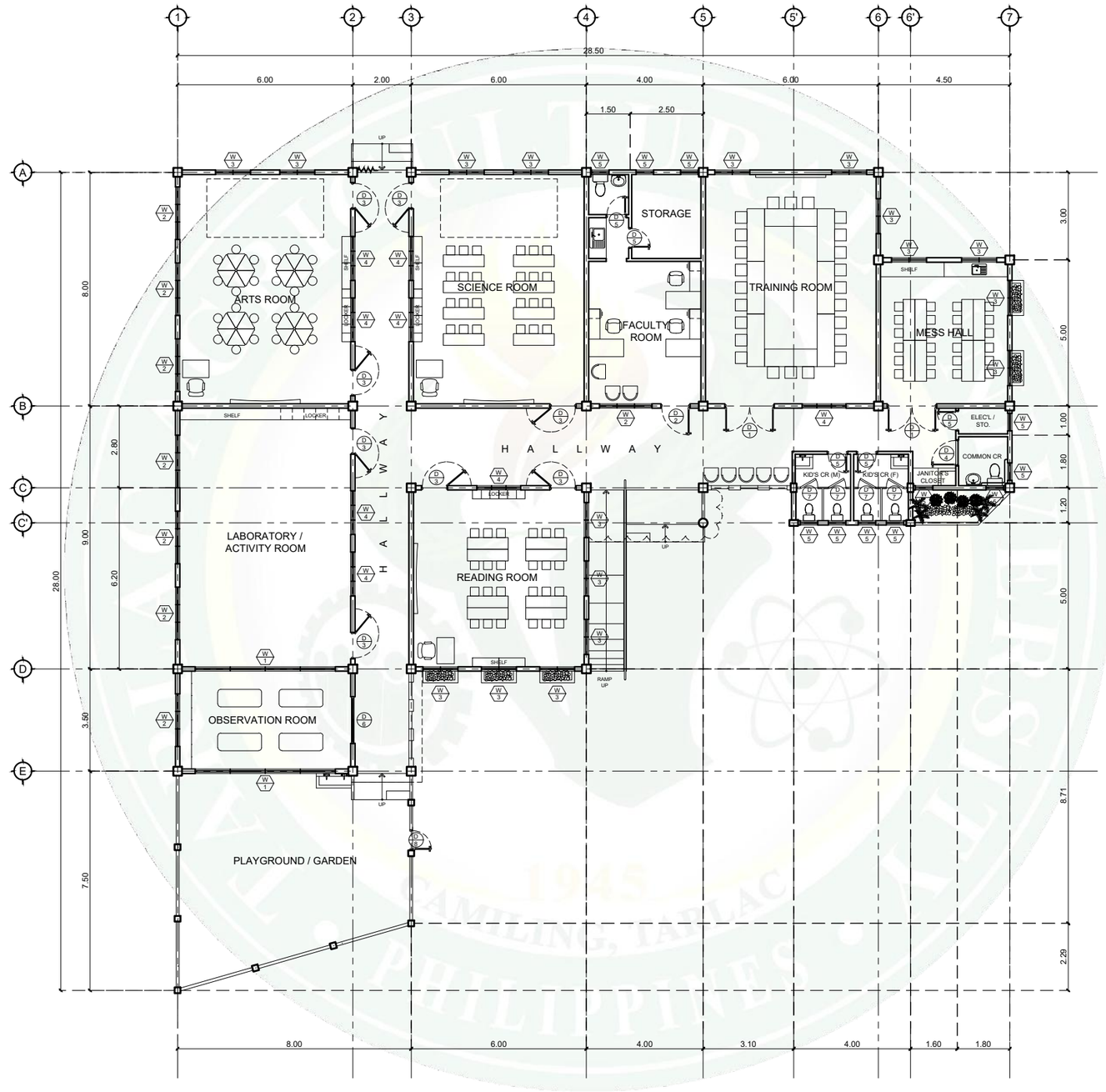

FLOOR PLAN
SCALE 1:175 MTS

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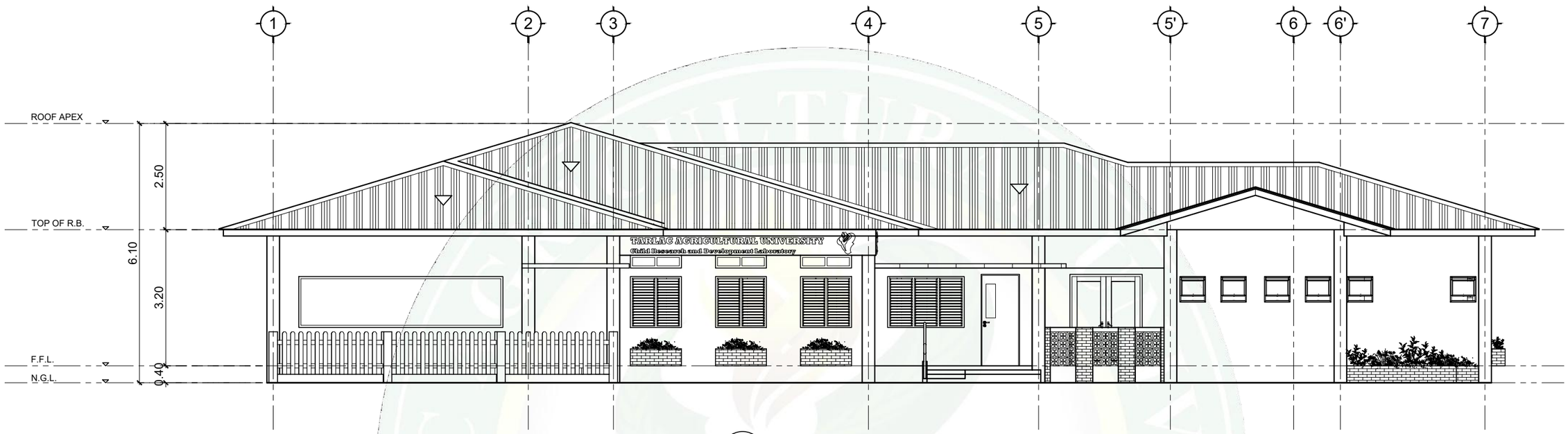
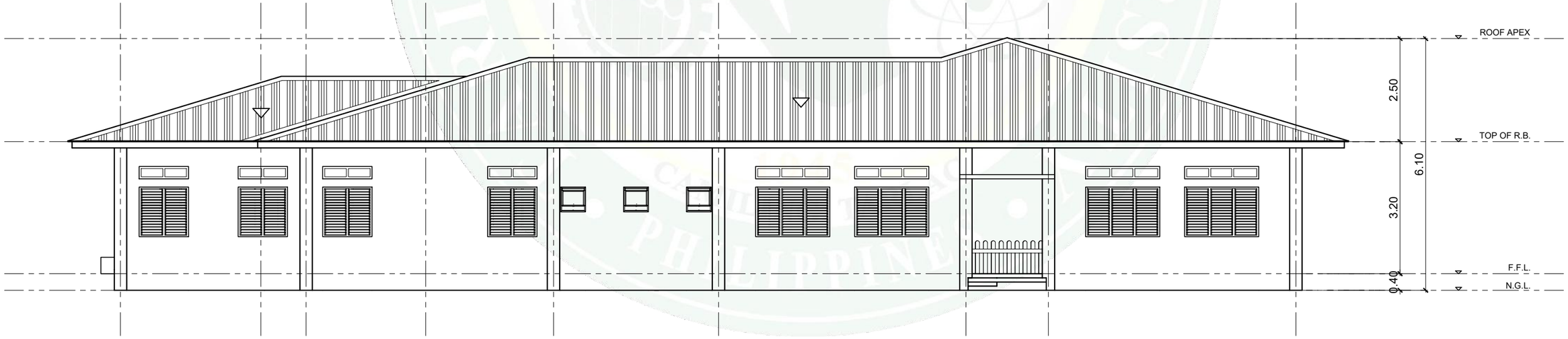


FRONT ELEVATION
SCALE 1:100 MTS



REAR ELEVATION
SCALE 1:100 MTS

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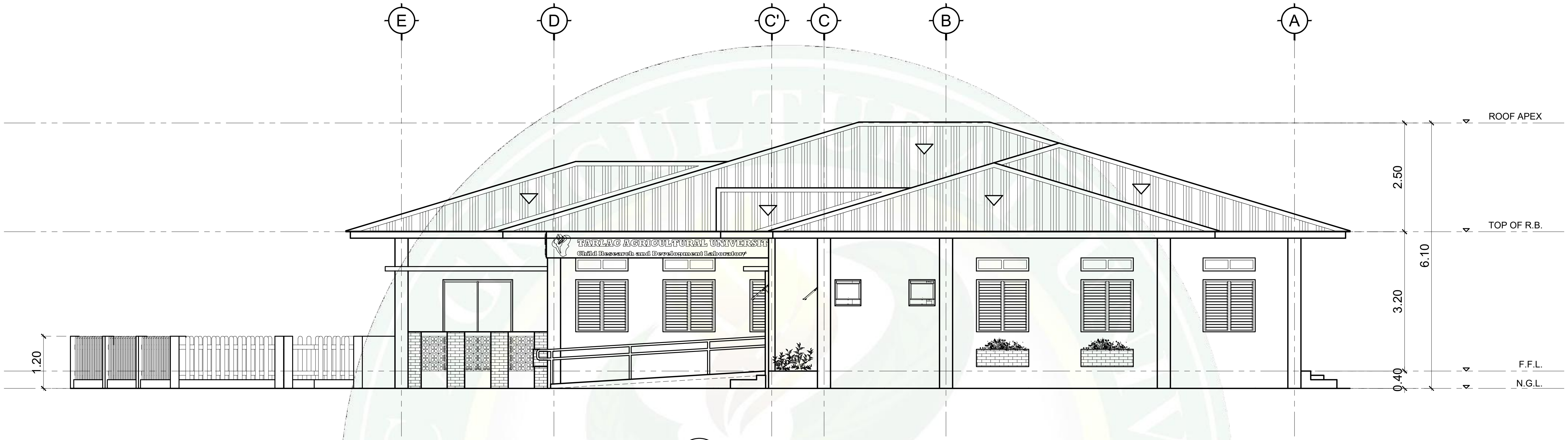
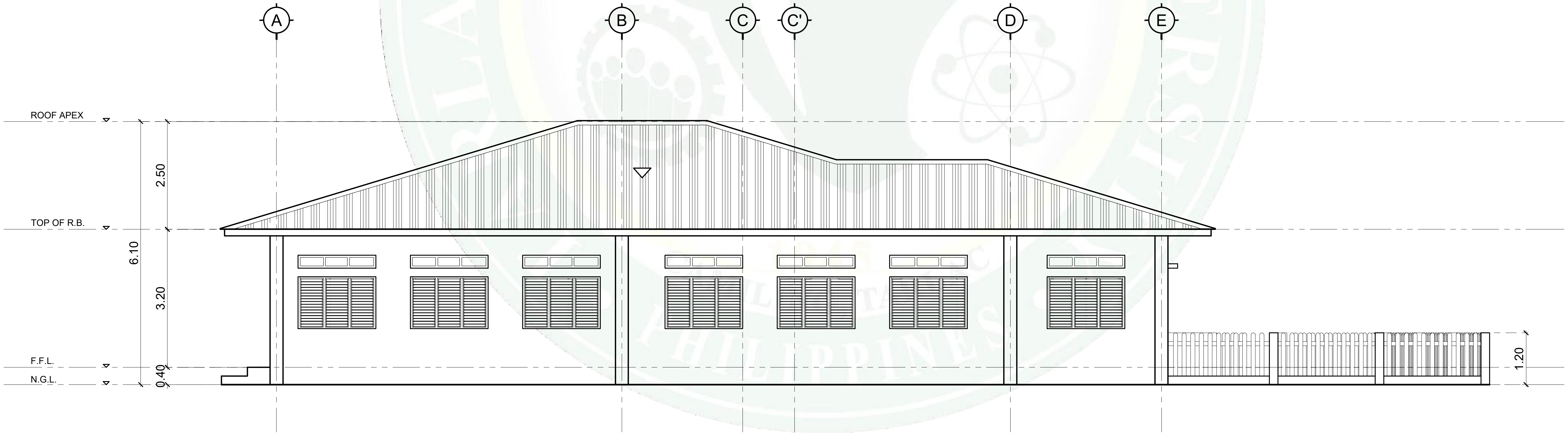


RIGHT SIDE ELEVATION

SCALE 1:100 MTS



LEFT SIDE ELEVATION

SCALE 1:100 MTS

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INFRASTRUCTURE DEVELOPMENT, LANDUSE AND ZONING UNIT

ARCHITECT:	
IAPOA NO:	
PRC NO:	PTR NO:
TIN NO:	DATE:
PLACE :	

R.A 9266 SECTION 33

DRAWINGS & SPECIFICATION AND OTHER CONTRACT DOCUMENTS DULY SIGNED,STAMPED OR SEALED,AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY & DOCUMENTS OF ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF AND FOR OTHER PROJECTS OR BUILDINGS,WHETHER EXECUTED PARTLY OR IN WHOLE,W/ OUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENTS

ENGINEER:	
PRC NO:	PTR NO:
TIN NO:	DATE:
PLACE :	

PROJECT TITLE :
CONSTRUCTION OF COLLEGE OF EDUCATION CHILD RESEARCH AND DEVELOPMENT LABORATORY OF EXPERIENCES

LOCATION :
TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

SHEET CONTENTS : **AS SHOWN**

PREPARED BY : AR. PAULA ERIKA S. BOCOBO, DRAFTSPERSON; AR. ALVIN R. DELA VEGA, RMP, PROJECT DEVELOPMENT OFFICER II

NOTED BY : ENGR. ROCHEL E. VIBAR, CHIEF, IDLUZ

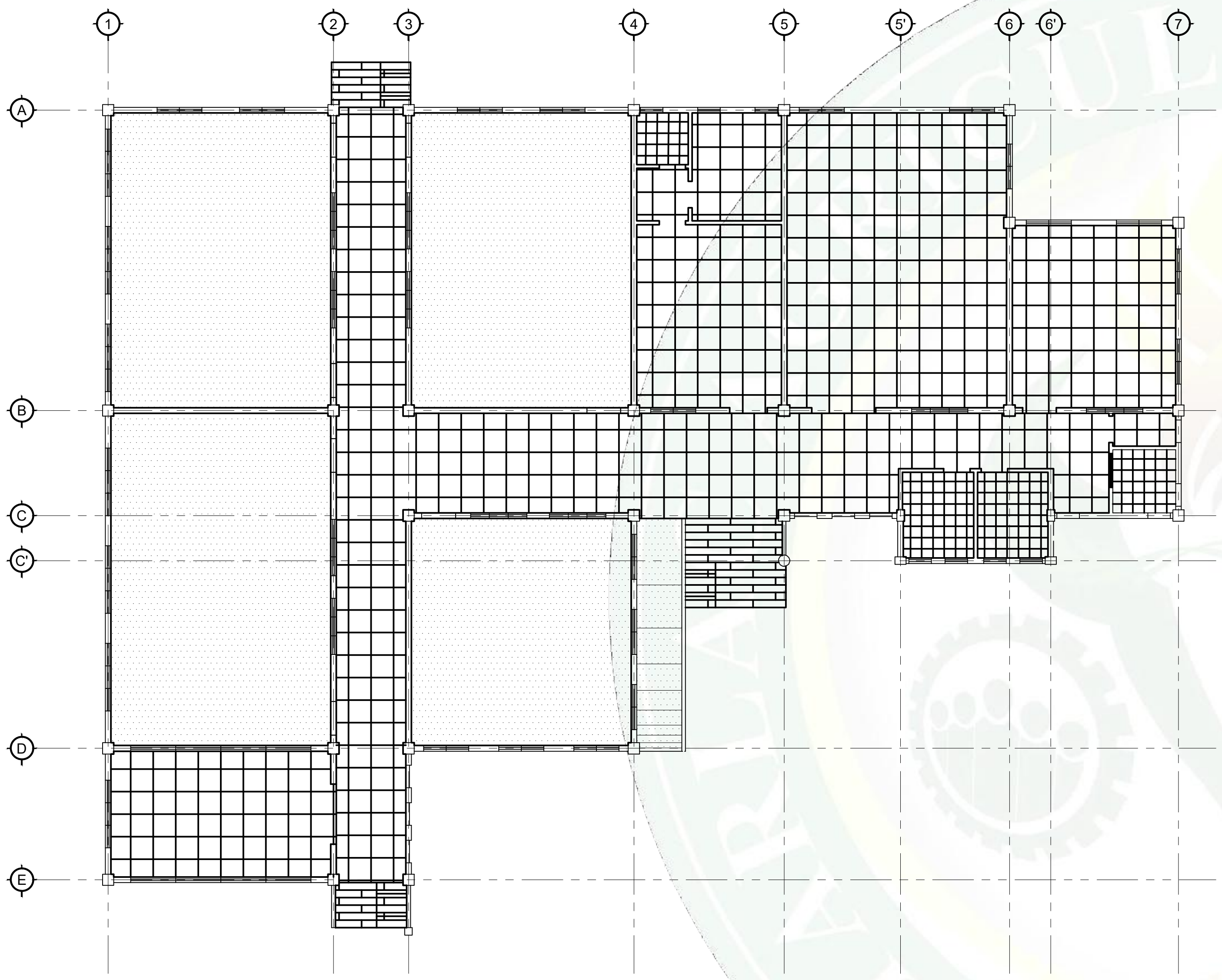
CHECKED BY : EUGENE S. VALERIANO, DIT, DIRECTOR, PLANNING AND DEV'T. OFFICE

RECOMMENDING APPROVAL: LEONELL P. LIJAUCO, PhD., VICE PRESIDENT FOR PLANNING AND QUALITY ASSURANCE; ARNOLD R. LORENZO, Ed.D, VICE PRESIDENT FOR FINANCE AND ADMINISTRATION

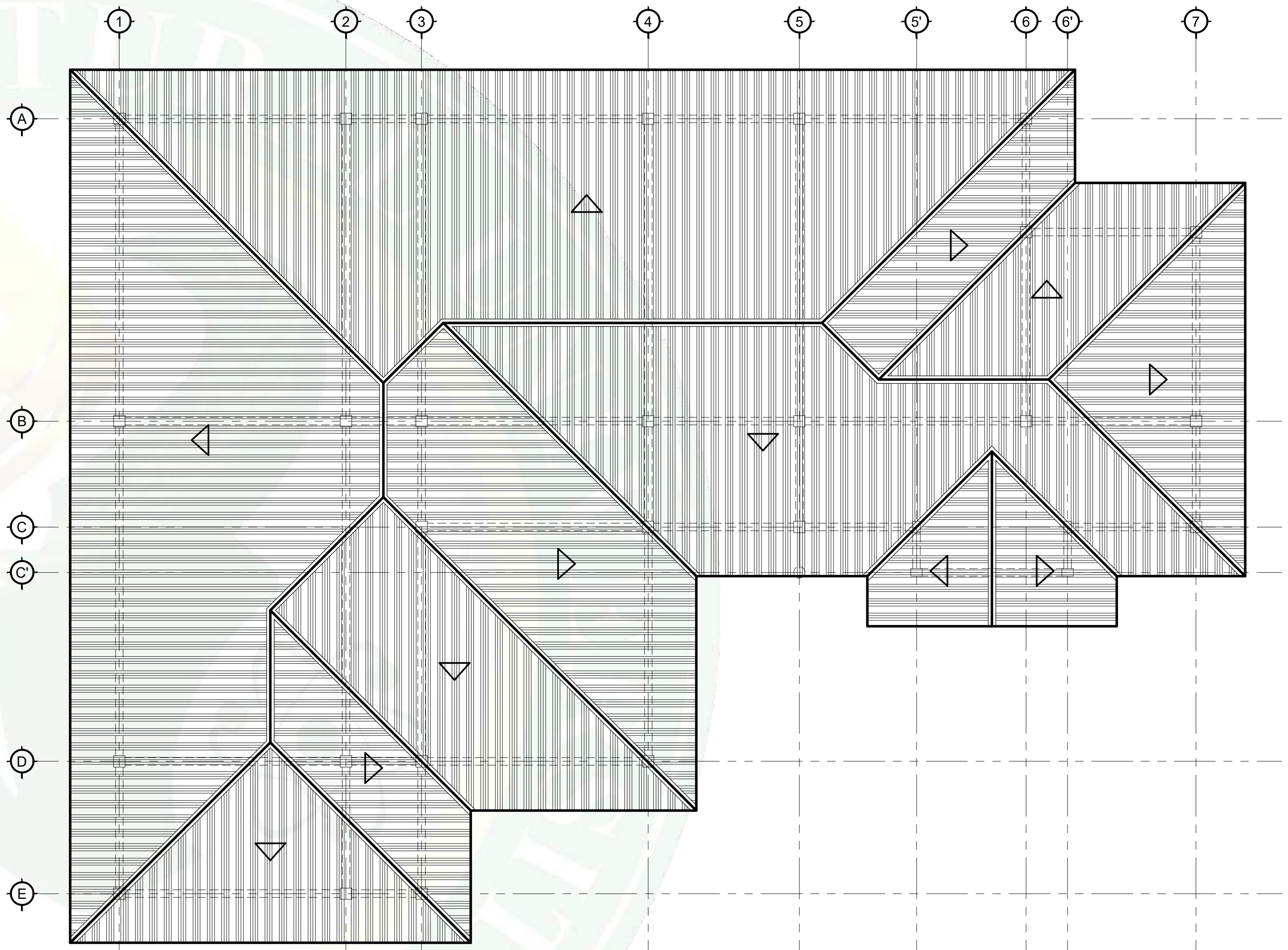
APPROVED: SILVERIO RAMON C. SALUNSON, DBA, PRESIDENT

REMARKS:

SHEET NO : **A-04**



FLOOR FINISH LAYOUT
SCALE 1:175 MTS



ROOF PLAN
SCALE 1:175 MTS

LEGEND

BARE CONCRETE FINISH TOPPED WITH 1"THK. RUBBER MAT	
600mmX600mm PORCELAIN TILES	
200mmX1200mm NON-SKID CERAMIC TILES	
300mmX300mm NON-SKID CERAMIC TILES	
GA. 24 RIB-TYPE LONGSPAN ROOFING SHEET	

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CAMILING TARLAC

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LOCATION :
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SHEET CONTENTS :
AS SHOWN

PREPARED BY :
AR. PAULA ERIKA S. BOCOBO — DRAFTSPERSON
AR. ALVIN R. DELA VEGA, RMP — PROJECT DEVELOPMENT OFFICER II

NOTED BY :
ENGR. ROCHEL E. VIBAR — CHIEF, IDLUZ

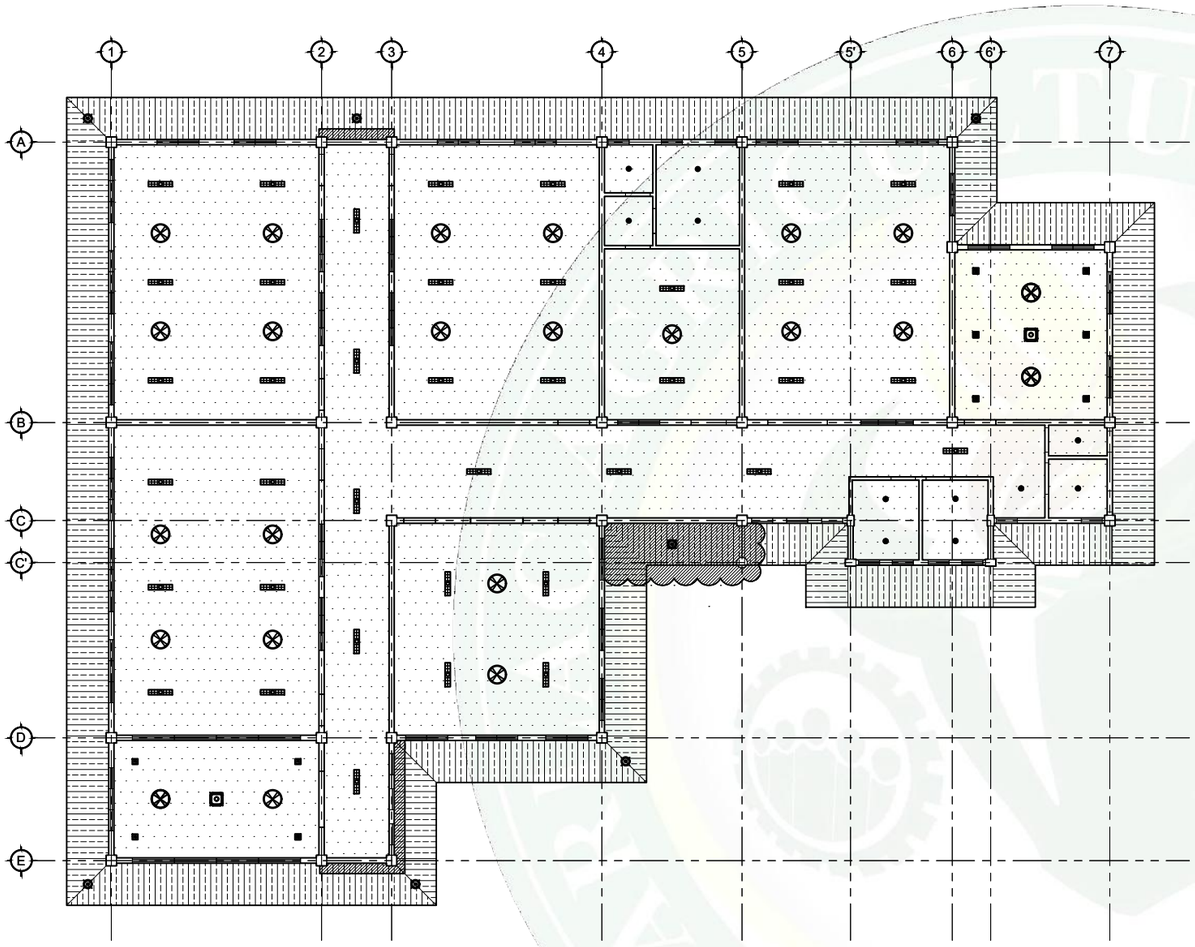
CHECKED BY :
EUGENE S. VALERIANO, DIT — DIRECTOR, PLANNING AND DEV'T. OFFICE

RECOMMENDING APPROVAL:
LEONELL P. LIJAUCO, PhD. — VICE PRESIDENT FOR PLANNING AND QUALITY ASSURANCE
ARNOLD R. LORENZO, Ed.D — VICE PRESIDENT FOR FINANCE AND ADMINISTRATION

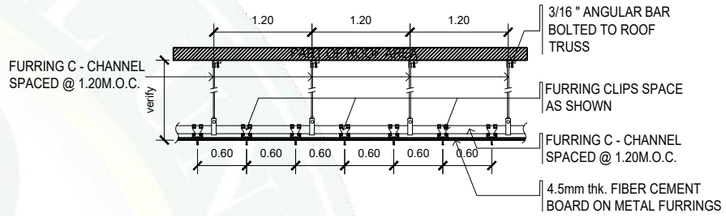
APPROVED:
SILVERIO RAMON DC. SALUNSON, DBA — PRESIDENT

REMARKS:

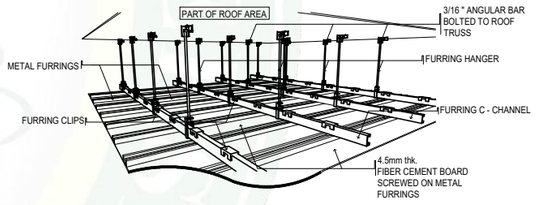
SHEET NO :
A-05



REFLECTED CEILING PLAN
SCALE 1:175 MTS



TYPICAL CEILING DETAILED SECTION
SCALE 1:75 MTS



TYPICAL CEILING 3D VIEW
SCALE NTS

LEGEND

- 4.5mm THK FIBER CEMENT BOARD
- GA. 26 METAL SPANDREL
- LEDGE SOFFIT
- ORBIT FAN
- 24w LED PANEL LIGHT
- 9w SURFACE MOUNTED ROUND DOWNLIGHT
- 6w CIRCULAR PINLIGHT
- 6w SQUARE PINLIGHT

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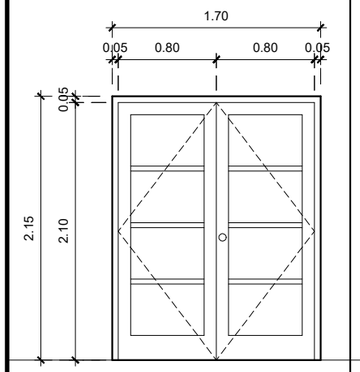
AR. PAULA ERNA S. BOCOBO, DESIGNER	ENGR. ROCHEL E. VIBAR, PROJECT DEVELOPMENT OFFICER	EUGENE S. VALERIANO, DIT, DIRECTOR, PLANNING AND DEVT. OFFICE	LEONELL P. LIZAUCO, PhD, VICE PRESIDENT FOR PLANNING AND QUALITY ASSURANCE	ARNOLD R. LORENZO, Ed.D, VICE PRESIDENT FOR FINANCE AND ADMINISTRATION

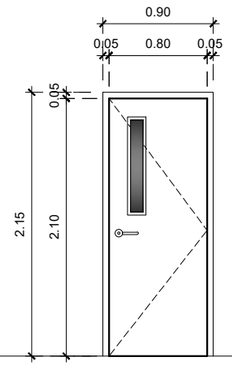
APPROVED:
SIXTERIO RAMOS DC. SALUNSON, DBA
PRESIDENT

REMARKS:

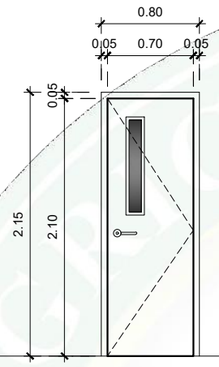
SHEET NO :
A-06



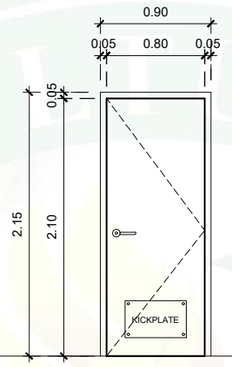
D 1	QUANTITY	2 SETS
	LOCATION	TRAINING ROOM, MESS HALL
DESCRIPTION		SINGLE SWING, DOUBLE PANEL WOODEN DOOR WITH COMPLETE ACCESSORIES



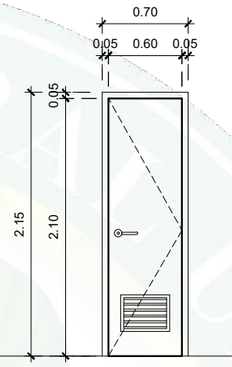
D 2	QUANTITY	1 SET
	LOCATION	FACULTY ROOM
DESCRIPTION		SINGLE SWING WOODEN FLUSH DOOR WITH VIEWING GLASS AND COMPLETE ACCESSORIES



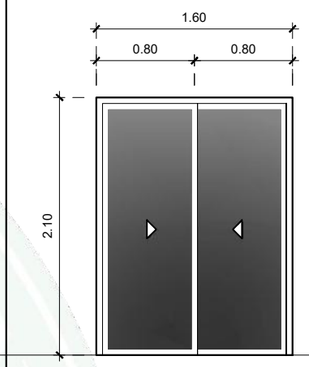
D 3	QUANTITY	8 SETS
	LOCATION	CLASSROOMS/LAB
DESCRIPTION		SINGLE SWING WOODEN FLUSH DOOR WITH VIEWING GLASS AND COMPLETE ACCESSORIES



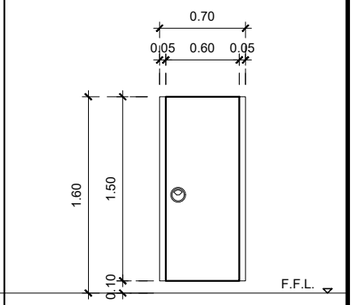
D 4	QUANTITY	1 SET
	LOCATION	COMMON CR
DESCRIPTION		SINGLE SWING WOODEN FLUSH DOOR WITH KICKPLATE AND COMPLETE ACCESSORIES



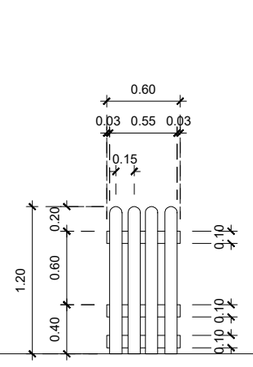
D 5	QUANTITY	5 SETS
	LOCATION	KIDS' CR, ELEC'L, FACULTY RM.
DESCRIPTION		SINGLE SWING WOODEN FLUSH DOOR WITH LOUVERS AND COMPLETE ACCESSORIES



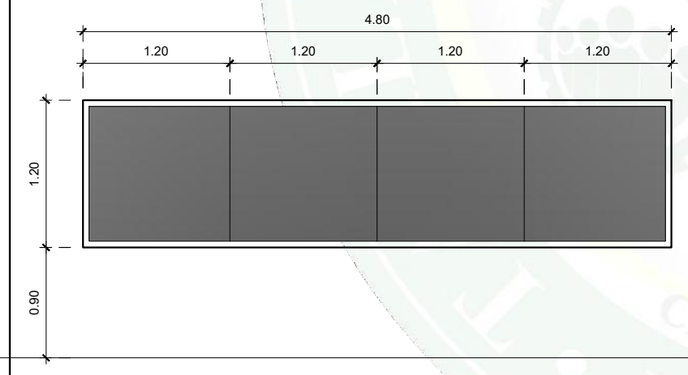
D 6	QUANTITY	1 SET
	LOCATION	OBSERVATION ROOM
DESCRIPTION		SLIDING DOOR WITH 10mm THK. BRONZE GLASS IN BROWN ANALOK FRAME AND COMPLETE ACCESSORIES



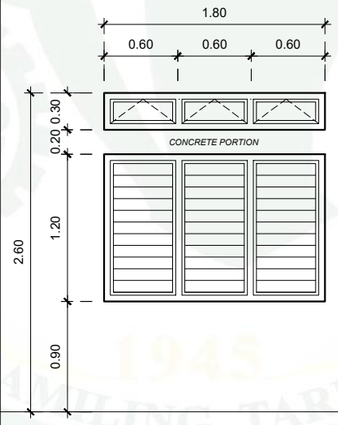
D 7	QUANTITY	4 SETS
	LOCATION	KIDS' CR
DESCRIPTION		SINGLE SWING 1" THK. MELAMINE LAMINATED BOARD WITH OCCUPANCY INDICATOR & COMPLETE ACCESSORIES



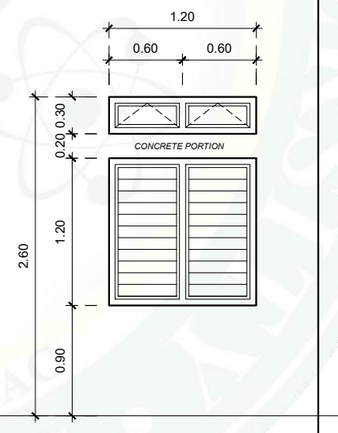
D 8	QUANTITY	1 SET
	LOCATION	PLAYGROUND/GARDEN
DESCRIPTION		SINGLE SWING ASSEMBLED 1"X4" LUMBER WITH COMPLETE ACCESSORIES



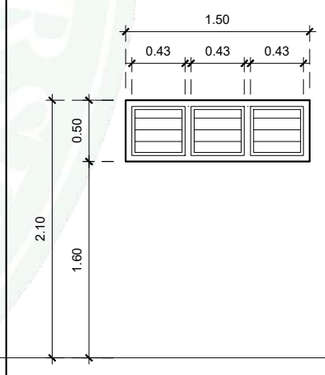
W 1	QUANTITY	2 SETS
	LOCATION	OBSERVATION ROOM
DESCRIPTION		FIXED WINDOW WITH 10mm THK. TEMPERED GLASS WITH ONE-WAY REFLECTIVE FILM IN BROWN POWDER COATED ALUMINUM FRAME



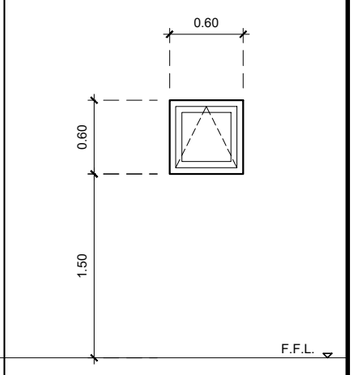
W 2	QUANTITY	7 SETS + 1 SET (W/OUT TRANSOM)
	LOCATION	OBSERVATION RM, CLASSROOMS + FACULTY RM.
DESCRIPTION		JALOUSIE WINDOW WITH 4mm THK. BRONZE GLASS BLADES IN BROWN ALUMINUM FRAME



W 3	QUANTITY	16 SETS + 1 SET (W/OUT TRANSOM)
	LOCATION	CLASSROOMS, FACULTY RM., MESS HALL
DESCRIPTION		JALOUSIE WINDOW WITH 4mm THK. BRONZE GLASS BLADES IN BROWN ALUMINUM FRAME



W 4	QUANTITY	8 SETS
	LOCATION	CLASSROOMS, LAB, FACULTY RM.
DESCRIPTION		JALOUSIE WINDOW WITH 4mm THK. BRONZE GLASS BLADES IN BROWN ALUMINUM FRAME



W 5	QUANTITY	11 SETS
	LOCATION	CRs, ELEC'L, J. CLOSET, STO.
DESCRIPTION		AWNING WINDOW WITH 4mm THK. BRONZE GLASS IN BROWN ANALOK FRAME

SCHEDULE OF DOORS AND WINDOWS

SCALE 1:50 MTS

REPUBLIC OF THE PHILIPPINES
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PLANNING AND DEVELOPMENT OFFICE

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LOCATION :
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ARNOLD R. LORENZO, Ed.D, VICE PRESIDENT FOR FINANCE AND ADMINISTRATION

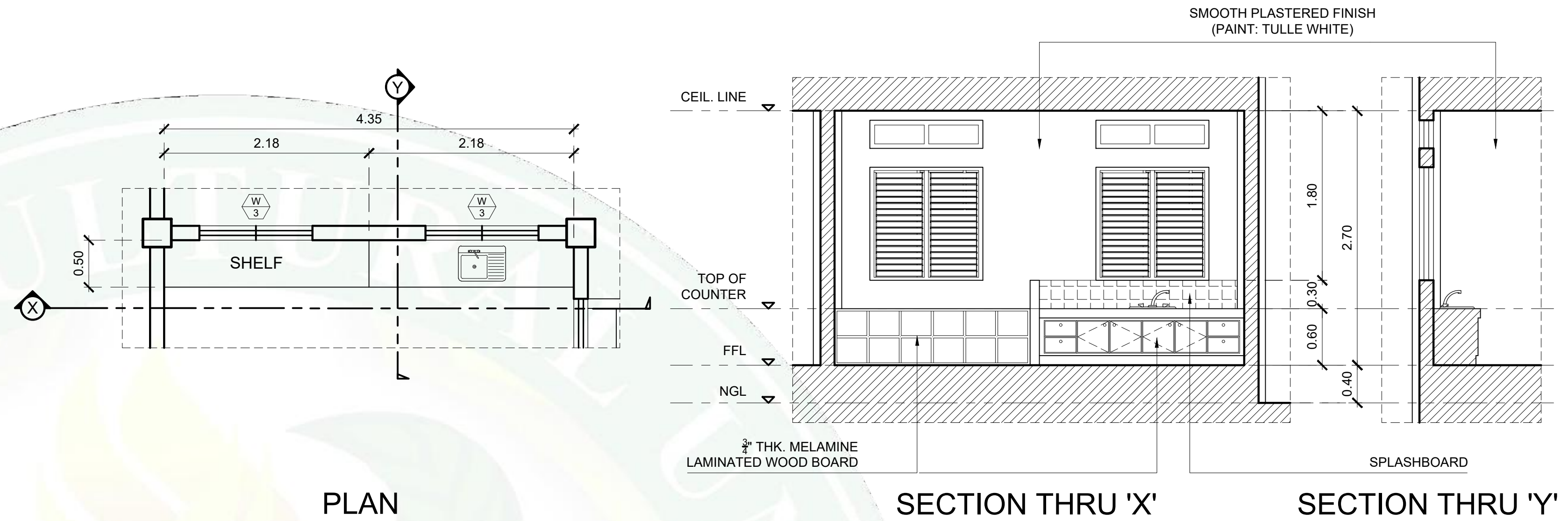
APPROVED:
SILVERIO JUNION DC. SALUNSON, DBA
PRESIDENT

REMARKS:

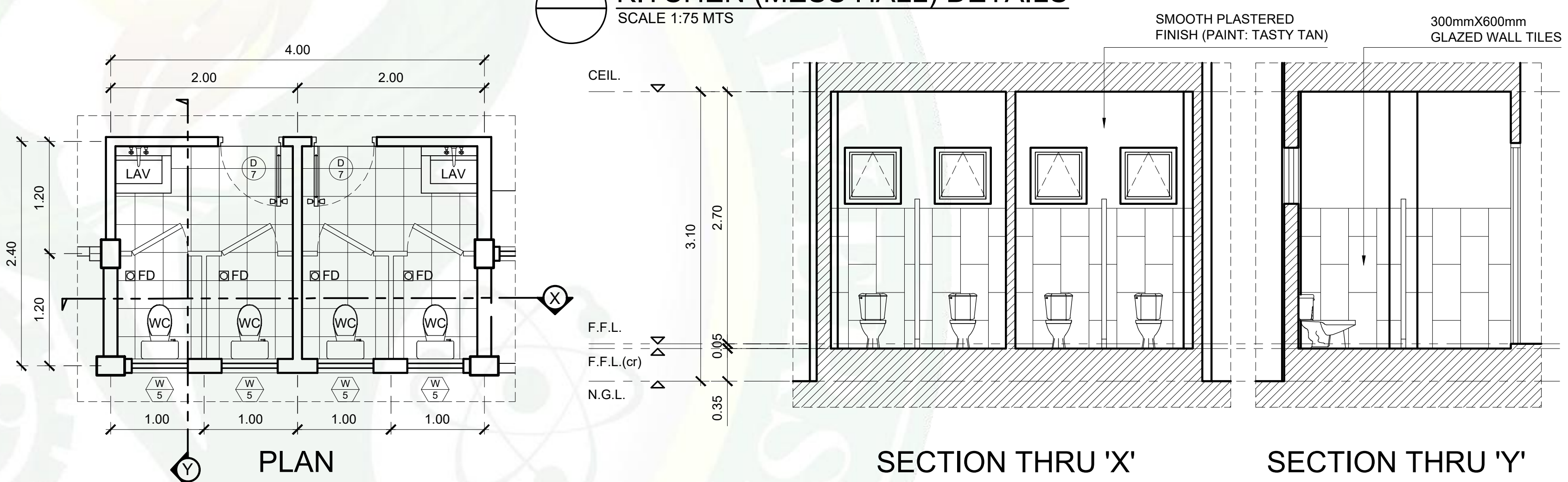
SHEET NO :
A-07

SCHEDULE OF FINISHES

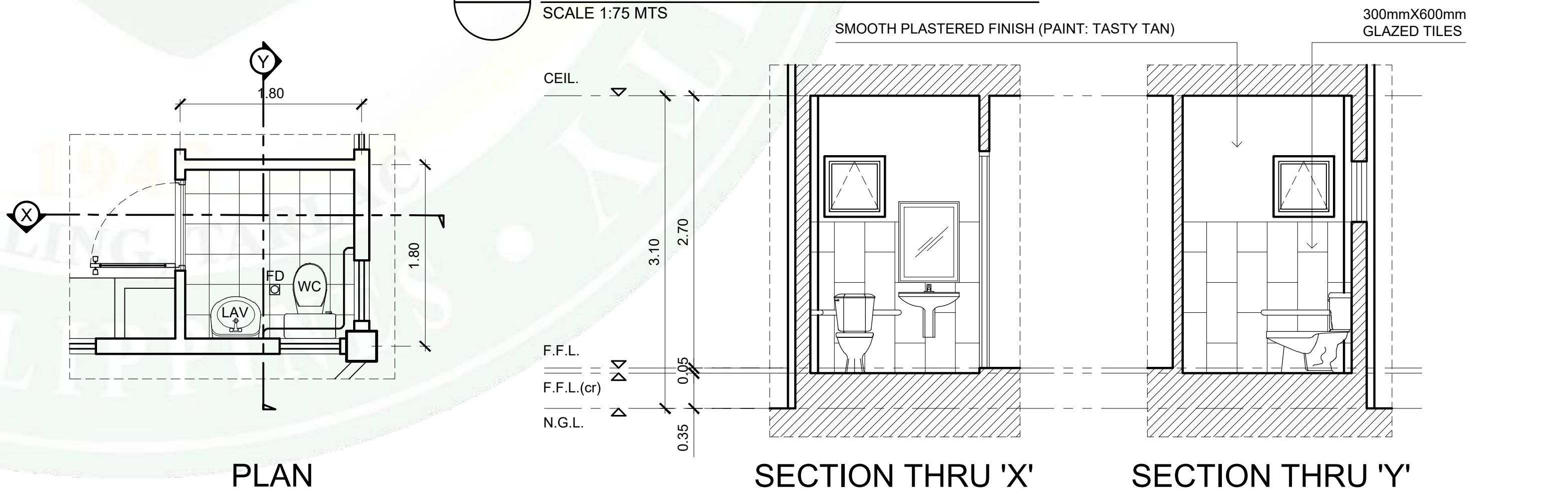
	FLOOR	WALL (Facing the Floor Plan)				CEILING
AREA	FINISH	N	S	E	W	FINISH
SCIENCE ROOM	PLAIN CONCRETE FINISH (TO BE FILLED W/ 1" THK. RUBBER MAT)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
ARTS ROOM	PLAIN CONCRETE FINISH (TO BE FILLED W/ 1" THK. RUBBER MAT)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
READING ROOM	PLAIN CONCRETE FINISH (TO BE FILLED W/ 1" THK. RUBBER MAT)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
LABORATORY / ACTIVITY ROOM	PLAIN CONCRETE FINISH (TO BE FILLED W/ 1" THK. RUBBER MAT)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
OBSERVATION ROOM	600mm x 600mm PORCELAIN FLOOR TILES	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
TRAINING ROOM	600mm x 600mm PORCELAIN FLOOR TILES	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
FACULTY ROOM	600mm x 600mm PORCELAIN FLOOR TILES	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
STORAGE (FACULTY)	600mm x 600mm PORCELAIN FLOOR TILES	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	4.5mm THK. FIBER CEMENT BOARD
POWDER ROOM (FACULTY)	300mm x 300mm NON-SKID CERAMIC FLOOR TILES	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	4.5mm THK. FIBER CEMENT BOARD
KITCHENETTE (FACULTY)	600mm x 600mm PORCELAIN FLOOR TILES	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
KIDS' COMFORT ROOM (MALE)	300mm x 300mm NON-SKID CERAMIC FLOOR TILES	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	4.5mm THK. FIBER CEMENT BOARD
KIDS' COMFORT ROOM (FEMALE)	300mm x 300mm NON-SKID CERAMIC FLOOR TILES	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	4.5mm THK. FIBER CEMENT BOARD
COMFORT ROOM (PWD)	300mm x 300mm NON-SKID CERAMIC FLOOR TILES	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	4.5mm THK. FIBER CEMENT BOARD
HALLWAY	600mm x 600mm PORCELAIN FLOOR TILES	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
STAIRS	200mm x 1200mm NON-SKID FLOOR TILES WITH RUBBER NOSING	---	---	---	---	LEDGE SOFFIT



KITCHEN (MESS HALL) DETAILS
SCALE 1:75 MTS



KIDS' COMFORT ROOM DETAILS
SCALE 1:75 MTS



KIDS' COMFORT ROOM DETAILS
SCALE 1:75 MTS

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R.A 9266 SECTION 33

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PROJECT TITLE : CONSTRUCTION OF COLLEGE OF EDUCATION CHILD RESEARCH AND DEVELOPMENT LABORATORY OF EXPERIENCES

LOCATION : TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

SHEET CONTENTS : AS SHOWN

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NOTED BY : ENGR. ROCHEL E. VIBAR, CHIEF, IDLUZ

CHECKED BY : EUGENE S. VALERIANO, DIT, DIRECTOR, PLANNING AND DEV'T. OFFICE

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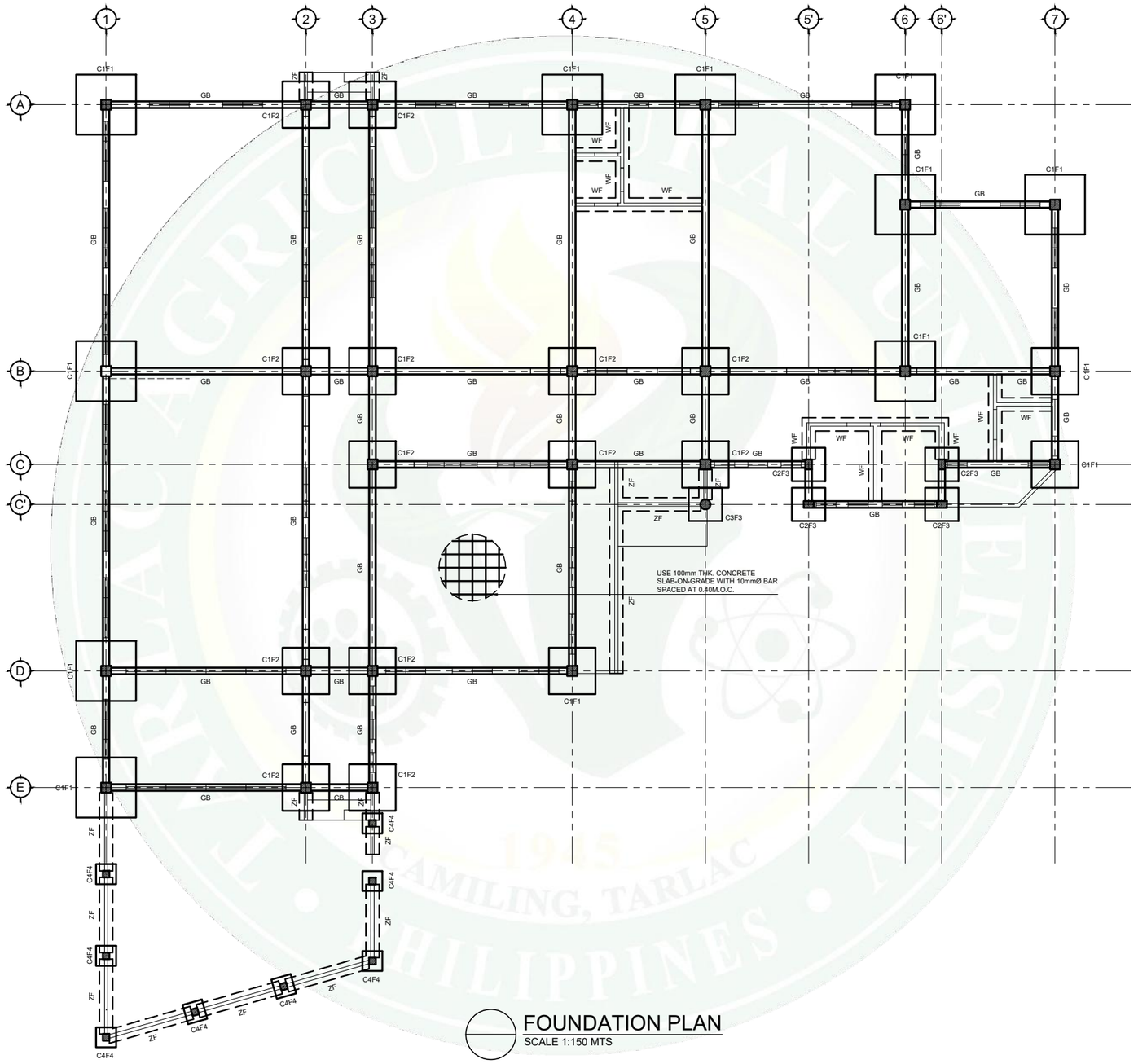
APPROVED: SILVERIO RAMON DC. SALUNSON, DBA, PRESIDENT

REMARKS:

SHEET NO : A-08



FOUNDATION PLAN
SCALE 1:150 MTS

REPUBLIC OF THE PHILIPPINES
TARLAC AGRICULTURAL UNIVERSITY
CAMILING TARLAC

PLANNING AND DEVELOPMENT OFFICE

INFRASTRUCTURE DEVELOPMENT, LANDUSE AND ZONING UNIT

ARCHITECT:

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PRC NO: | PTR NO:

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PLACE :

R.A 9266 SECTION 33

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ENGINEER:

PRC NO: | PTR NO:

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PLACE :

PROJECT TITLE :

CONSTRUCTION OF COLLEGE OF EDUCATION CHILD RESEARCH AND DEVELOPMENT LABORATORY OF EXPERIENCES

LOCATION :
TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

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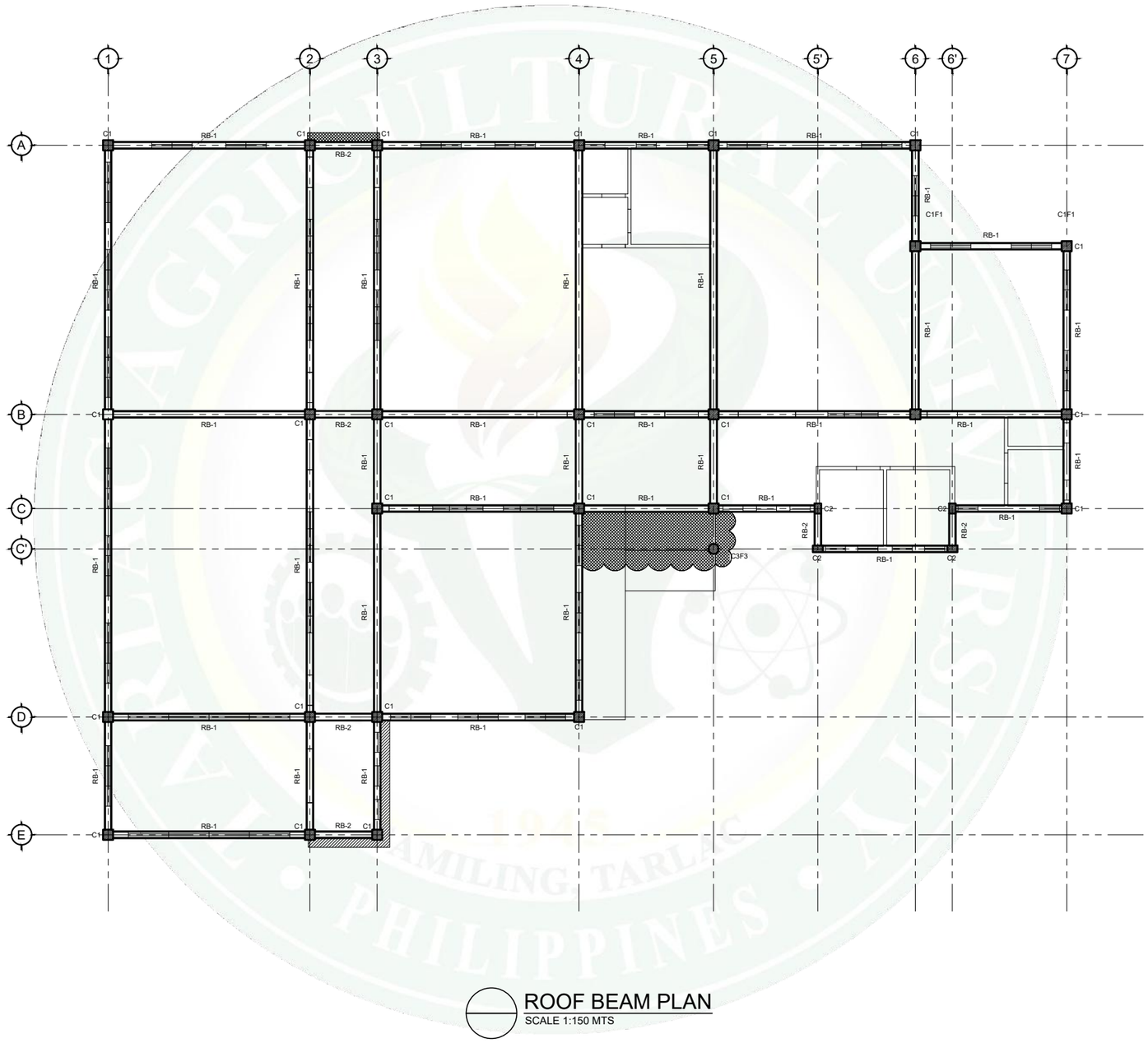
APPROVED:

SILVERIO RAMON DC. SALUNSON, DBA
PRESIDENT

REMARKS:

SHEET NO :

S-01



ROOF BEAM PLAN
SCALE 1:150 MTS

REPUBLIC OF THE PHILIPPINES
TARLAC AGRICULTURAL UNIVERSITY
CAMILING TARLAC

PLANNING AND DEVELOPMENT OFFICE

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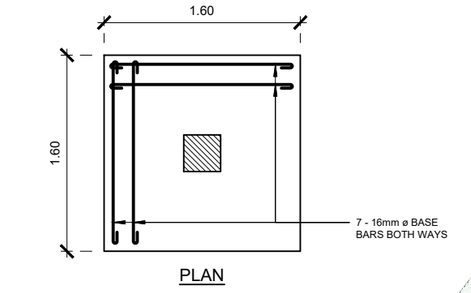
PRESIDENT

REMARKS:

SHEET NO :
S-02



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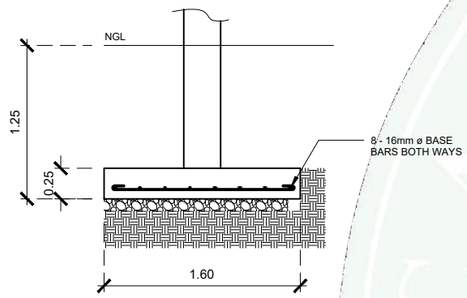

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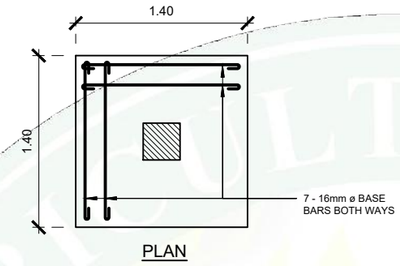
F1 DETAIL
SCALE 1:50 MTS



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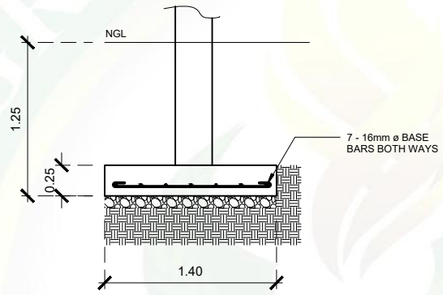

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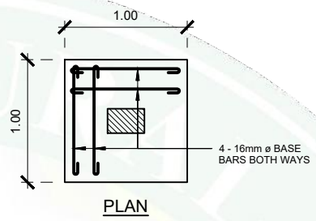
F2 DETAIL
SCALE 1:50 MTS



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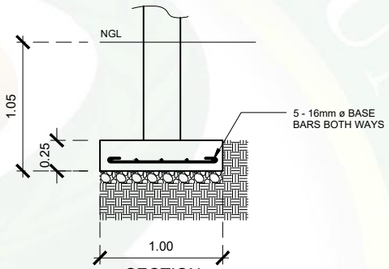

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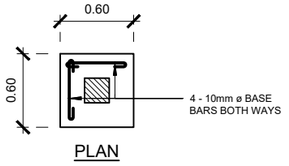
F3 DETAIL
SCALE 1:50 MTS



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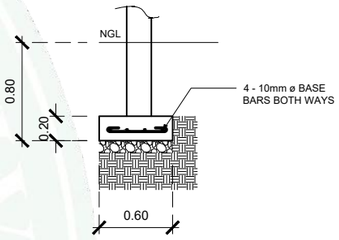


SECTION

F4 DETAIL
SCALE 1:50 MTS

SCHEDULE OF COLUMN

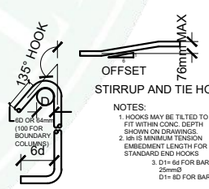
MARK	SECTION (Footing - Grade)	VERTICAL REINF	TIES DIA	TIES NO.	TIES SPACING	REMARKS
C1			10mm	2	50	
		4-16mm		3	100	
				5	150	
	300x300			REST	200	
C2			10mm	2	50	
		4-16mm		3	100	
				5	150	
	300x200			REST	200	
C3			10mm	CONT.	CONT.	
		4-16mm				
	D=300mm					
C4			10mm	2	50	
		4-10mm		2	100	
				2	150	
	200x200			REST	200	

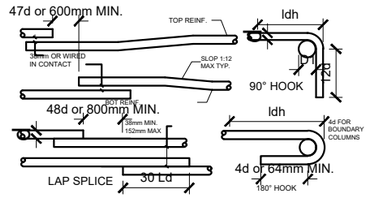
SCHEDULE OF GRADE BEAM

MARK	CONT'. BARS	END SUPPORT (L) SECTION	END SUPPORT (L) REINF	MIDSPAN SECTION	MIDSPAN REINF	END SUPPORT (R) SECTION	END SUPPORT (R) REINF	STIRRUPS DIA	STIRRUPS NO.	STIRRUPS SPACING	REMARKS
								10mm	2	50	
GB	2-12mm top		2-12mm		2-12mm		2-12mm		2	100	
									2	150	
	2-12mm bot.		2-12mm		2-12mm		2-12mm				
									REST	200	
		200x300		200x300		200x300					

SCHEDULE OF ROOF BEAM

MARK	CONT'. BARS	END SUPPORT (L) SECTION	END SUPPORT (L) REINF	MIDSPAN SECTION	MIDSPAN REINF	END SUPPORT (R) SECTION	END SUPPORT (R) REINF	STIRRUPS DIA	STIRRUPS NO.	STIRRUPS SPACING	REMARKS
								10mm	2	50	
RB1	2-12mm top		3-12mm		2-12mm		3-12mm		3	100	
									5	150	
	2-12mm bot.		2-12mm		3-12mm		2-12mm				
									REST	200	
		200x400		200x400		200x400					
								10mm	2	50	
RB2	2-12mm top		2-12mm		2-12mm		2-12mm		2	100	
									2	150	
	2-12mm bot.		2-12mm		2-12mm		2-12mm				
									REST	200	
		200x400		200x400		200x400					





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ARCHITECT:
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LOCATION :
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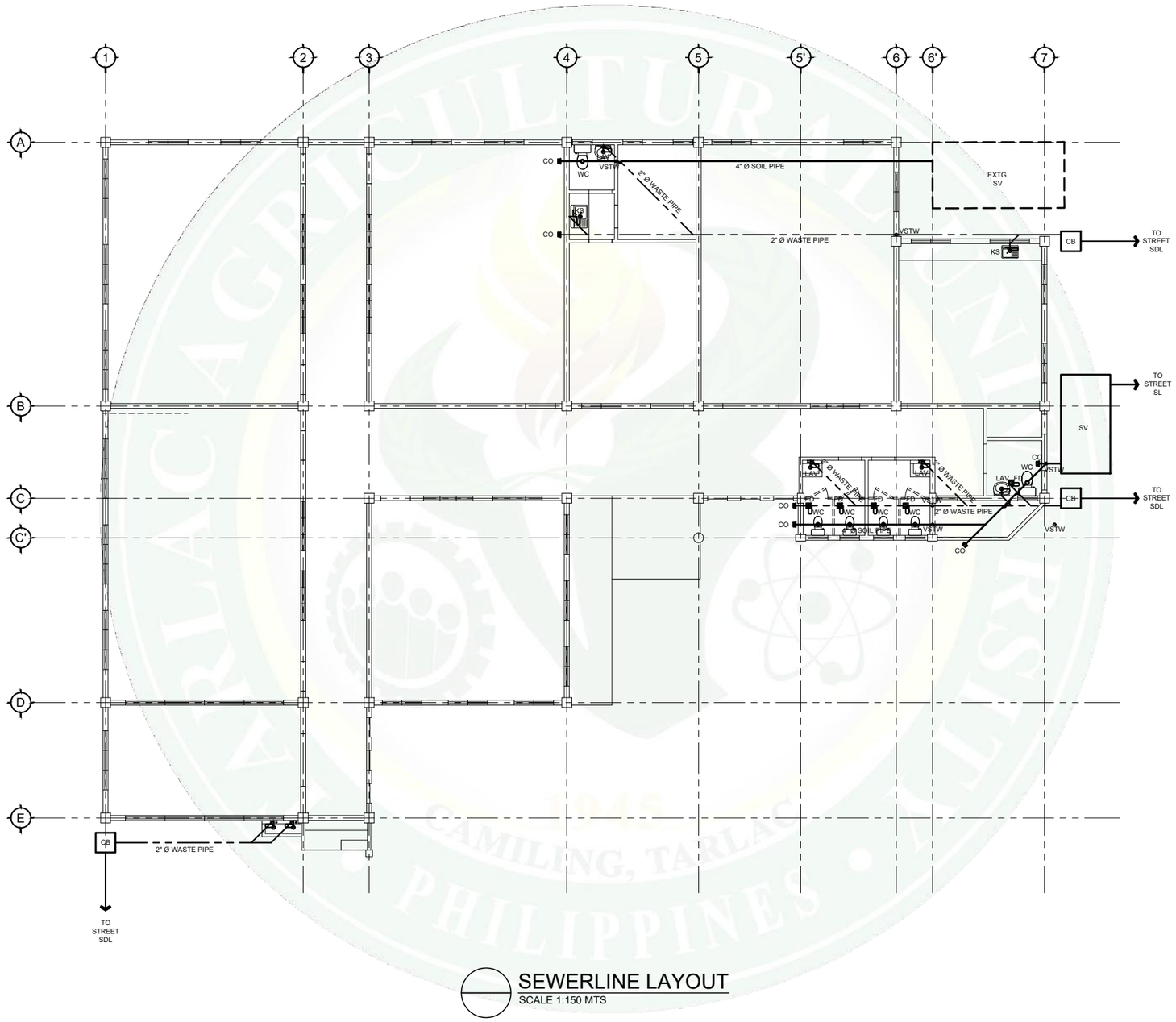
PRESIDENT

REMARKS:

SHEET NO :
S-03



SEWERLINE LAYOUT
SCALE 1:150 MTS

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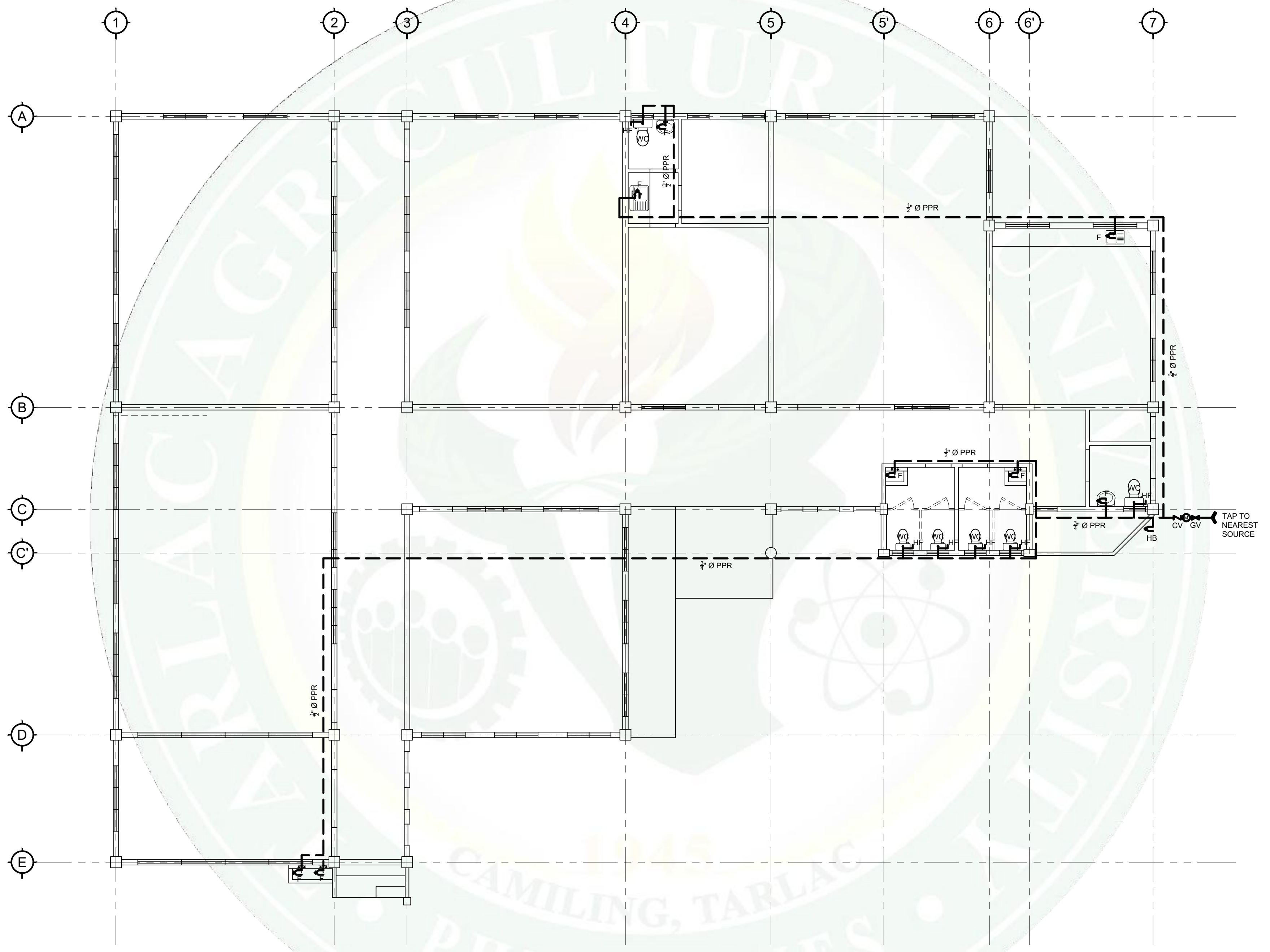
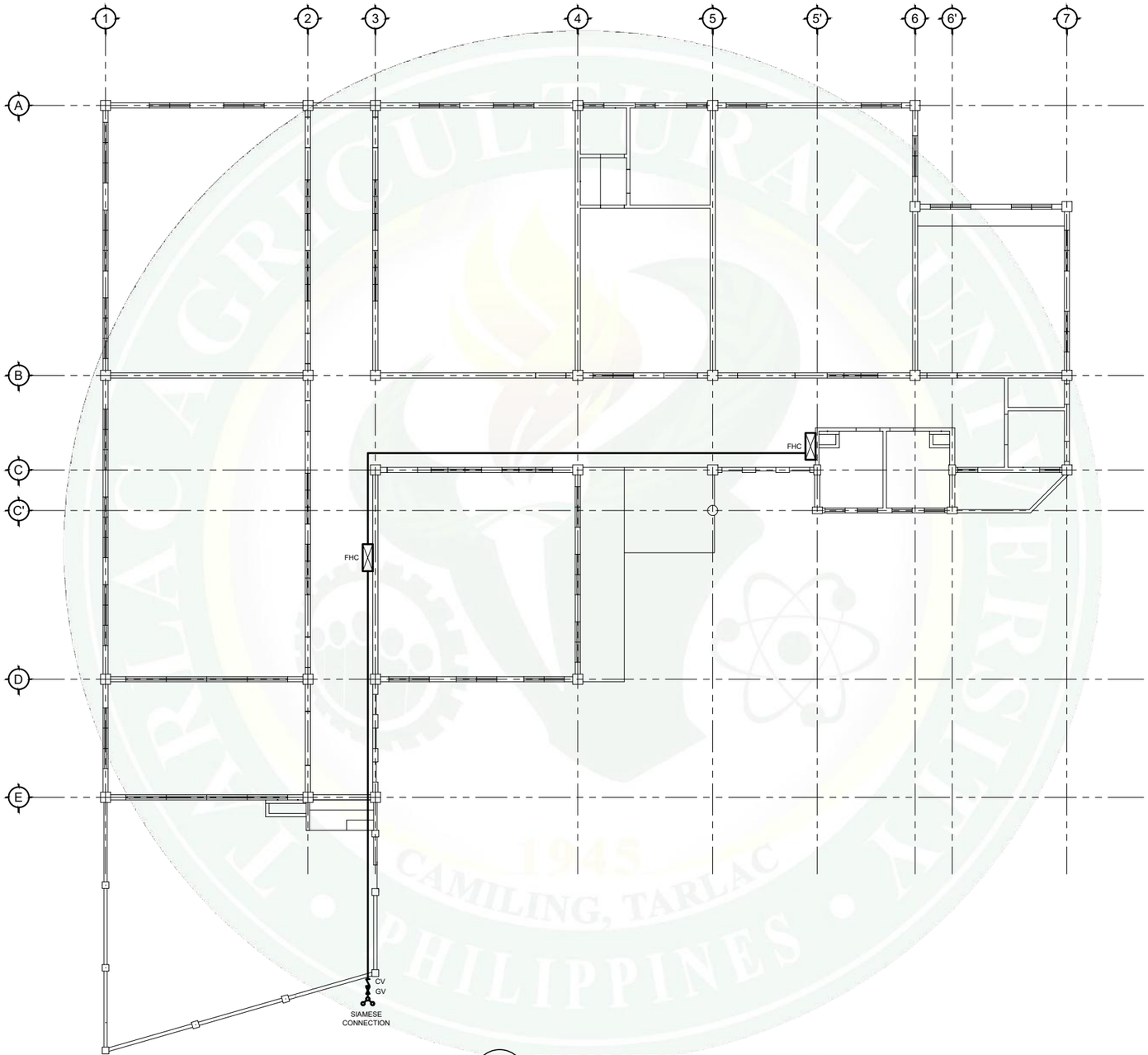
REMARKS:

SHEET NO :
P-01



WATERLINE LAYOUT
SCALE 1:150 MTS

REPUBLIC OF THE PHILIPPINES **TARLAC AGRICULTURAL UNIVERSITY** CAMILING TARLAC **PLANNING AND DEVELOPMENT OFFICE** **INFRASTRUCTURE DEVELOPMENT, LANDUSE AND ZONING UNIT**	ARCHITECT: IAPOA NO: PRC NO: PTR NO: TIN NO: DATE: PLACE :	**R.A 9266 SECTION 33** DRAWINGS & SPECIFICATION AND OTHER CONTRACT DOCUMENTS DULY SIGNED,STAMPED OR SEALED,AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY & DOCUMENTS OF ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF AND FOR OTHER PROJECTS OR BUILDINGS,WHETHER EXECUTED PARTLY OR IN WHOLE,W/ OUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENTS	ENGINEER: PRC NO: PTR NO: TIN NO: DATE: PLACE :	**PROJECT TITLE :** **CONSTRUCTION OF COLLEGE OF EDUCATION CHILD RESEARCH AND DEVELOPMENT LABORATORY OF EXPERIENCES** **LOCATION :** **TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)**	**SHEET CONTENTS :** **AS SHOWN** **PREPARED BY :** AR. PAULA ERIKA S. BOCOBO, DRAFTSPERSON; AR. ALVIN R. DELA VEGA, RMP, PROJECT DEVELOPMENT OFFICER II **NOTED BY :** ENGR. ROCHEL E. VIBAR, CHIEF, IDLUZ **CHECKED BY :** EUGENE S. VALERIANO, DIT, DIRECTOR, PLANNING AND DEV'T. OFFICE **RECOMMENDING APPROVAL:** LEONELL P. LIJAUCO, PhD., VICE PRESIDENT FOR PLANNING AND QUALITY ASSURANCE; ARNOLD R. LORENZO, Ed.D, VICE PRESIDENT FOR FINANCE AND ADMINISTRATION	APPROVED: [illegible]VERIO RA[illegible]ON DC. SALUNSON, DBA PRESIDENT
						REMARKS:
						SHEET NO : **P-02**



FIRE PROTECTION LAYOUT

SCALE 1:150 MTS

REPUBLIC OF THE PHILIPPINES
TARLAC AGRICULTURAL UNIVERSITY
CAMILING TARLAC

PLANNING AND DEVELOPMENT OFFICE

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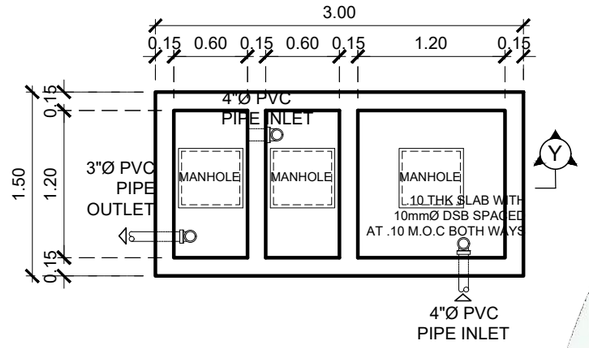
PRESIDENT

REMARKS:

SHEET NO :

P-03



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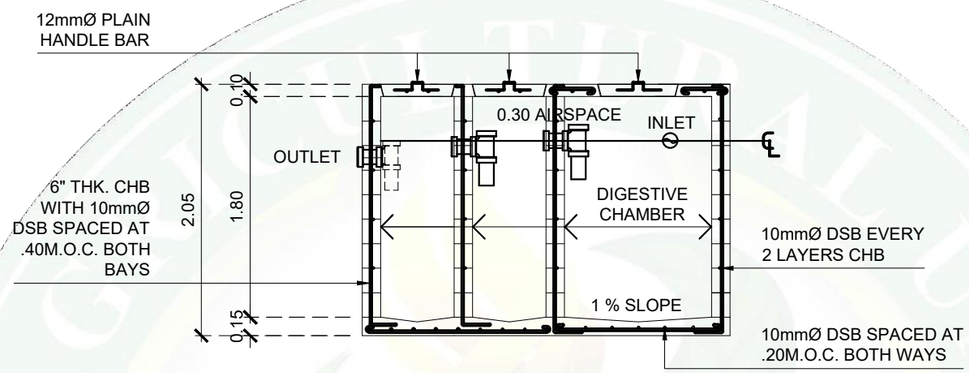
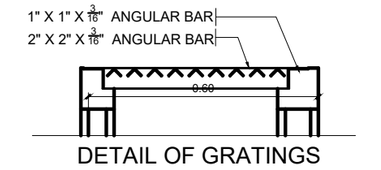
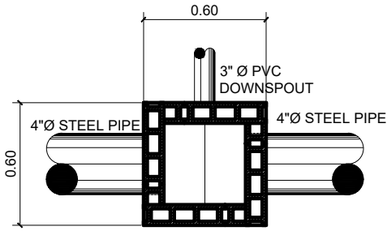


SECTION

SEPTIC VAULT DETAILS
SCALE 1:50 MTS



DETAIL OF GRATINGS



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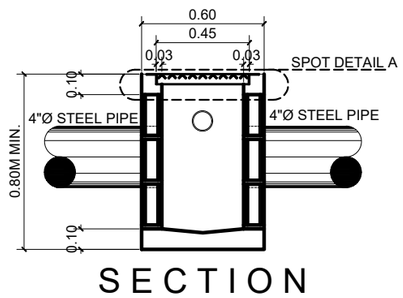
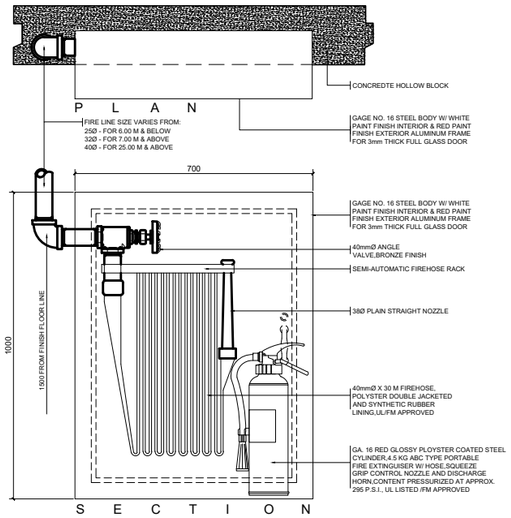
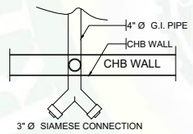


SECTION

CATCH BASIN DETAILS
SCALE 1:30 MTS



FIRE HOSE CABINET DETAILS
SCALE 1:20 MTS



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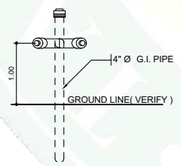
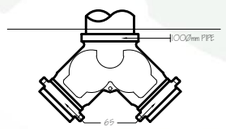


ELEVATION

SIAMESE CONNECTION DETAIL

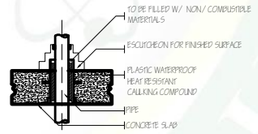
SCALE 1:15M



FIRE DEPT.CONNECTION DET.(SIAMESE TWIN)

N T S

NOTE:
1. PROVIDE IDENTIFICATION SIGN FOR EACH FIRE DEPARTMENT CONNECTION.
2. IDENTIFICATION SIGN SHOULD INDICATE "DRY STANDPIPE" OR "SPRINKLER SYSTEM" FOR COMBINED SYSTEM INDICATE "AUTO SPRINKLER & STANDPIPE". INDICATE ZONE & LEVEL SERVE FOR MULTI ZONE SYSTEM.



WATERTIGHT PIPE SLEEVE THRU FLOORS

W T S

NOTE:
SLEEVE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THRU WALLS & FOUNDATION.
A. MINIMUN CLEARANCE BETWEEN PIPES AND SLEEVES SHALL NOT BE LESS THAN 25mm. FRO PIPES 25mm THROUGH 90mm. & 50mm. FOR PIPES 100mm. LARGER.
B. THE CLEARANCE BETWEEN THE PIPE SLEEVE SHALL BE FILLED W/ NON-COMPUSTIBLE FLEXIBLE MATERIALS SUCH AS MINERAL WOOL FIBERGLASS OR EQUIPMENT PIPE SHALL NOT DECLARE FIRE RATING OF WALLS AND FLOORS.
C. FLOOR SLEEVES SHALL BE EXTENDED AT LEAST 75mm. ABOVE THE TOP OF THE WEARING SURFACE.

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PROJECT TITLE :
CONSTRUCTION OF COLLEGE OF EDUCATION CHILD RESEARCH AND DEVELOPMENT LABORATORY OF EXPERIENCES

LOCATION :
TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

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SILVERIO RAMON DC. SALUNSON, DBA
PRESIDENT

REMARKS:

SHEET NO :
P-04

LEGEND

	KS	KITCHEN SINK
	LAV	LAVATORY
	WC	WATER CLOSET
	URI	URINAL
	F	FAUCET
HF	HF	HANDHELD FAUCET
HB	HB	HOSE BIBB
	LAV	LAVATORY DRAIN
	FD	FLOOR DRAIN
	CO	CLEANOUT
GD	GD	GUTTER DRAIN
DS	DS	DOWN SPOUT
M	M	WATER METER
	GV	GATE VALVE
	CV	CHECK VALVE
	FHC	FIRE HOSE CABINET
	SC	SIAMESE CONNECTION
	CWL	COLD WATER LINE
	WP	WASTE PIPE
	SP	SOIL PIPE

GENERAL NOTES AND SPECIFICATIONS

1. GRADE OF HORIZONTAL PIPING
RUN ALL HORIZONTAL PIPING IN PERFECT ALIGNMENT AT A UNIFORM GRADE OF NOT LESS THAN TWO PERCENT (2%).

2. CHANGE IN DIRECTION
ALL CHANGES IN DIRECTION SHALL BE MADE BY THE APPROPRIATE USE OF FORTY FIVE DEGREE (45°) WYE, LONG SWEEP, QUARTERS BEND, EIGHTH OR SIXTEENTH BENDS, WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL, A SINGLE 1/8 BEND COMBINATION MAY BE USED ON WASTE LINES, TEES AND CROSSES MAY BE USED IN VENT PIPES.

3. PROHIBITED FITTINGS
NO DOUBLE TEE BRANCHES SHALL BE USED IN HORIZONTAL SOIL OR WASTE LINES, DRILLING AND TAPPING OF HOUSE DRAIN, WASTE OR BEND PIPES, AND USED OF SADDLE HUB AND BENDS ARE PROHIBITED.

4. CLEANOUTS
CLEANOUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:

a.) Every changes in directions exceeding twenty two and one half degree ($22\frac{1}{2}°$).

b.) One and a half meters (1.5 m.) inside the property line before the drainage connection.

c.) Every fifteen meters (15 m.) in horizontal run of pipes.

5. SLEEVES
PROVIDE PIPE SLEEVES AT WALL, COLUMN OR SLAB ONE SIZE BIGGER THAN THE ACTUAL SIZE OF PIPE PASSING THROUGH WALLS OR UNDER SLAB TO PROTECT PIPE FROM BREAKAGE.

6. DEAD ENDS SHALL BE AVOIDED.

7. WORKMANSHIP
ALL PLUMBING WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL BUILDING CODE, REQUIREMENTS OF THE PLUMBING INSPECTION OFFICE AND PERTINENT PROVISIONS OF THE NATIONAL BUILDING CODE, FURTHER, ALL WORKS SHALL BE DONE WITH THE SUPERVISION OF A REGISTERED MASTER PLUMBER.

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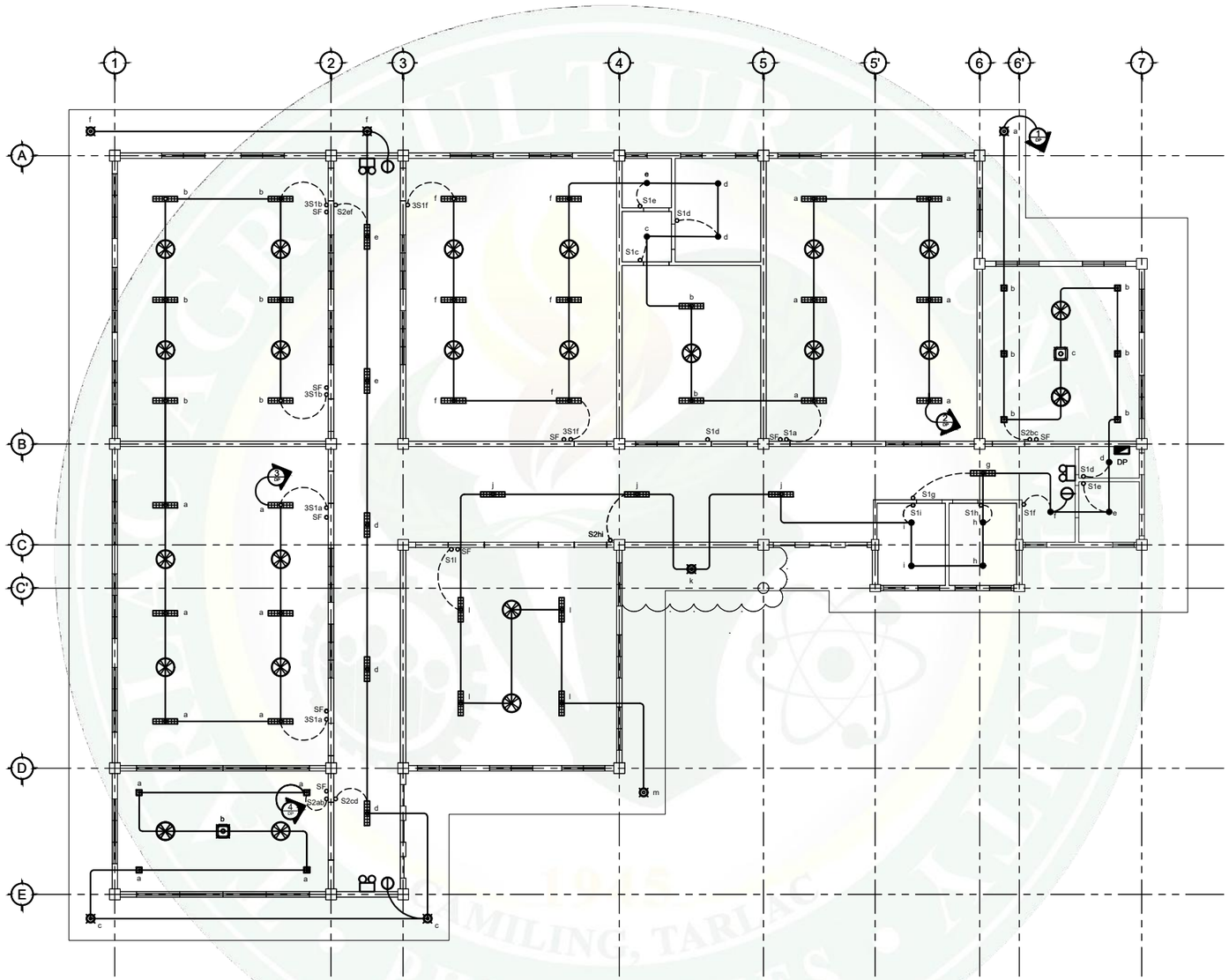
P-05



LIGHTING LAYOUT

SCALE 1:150 MTS

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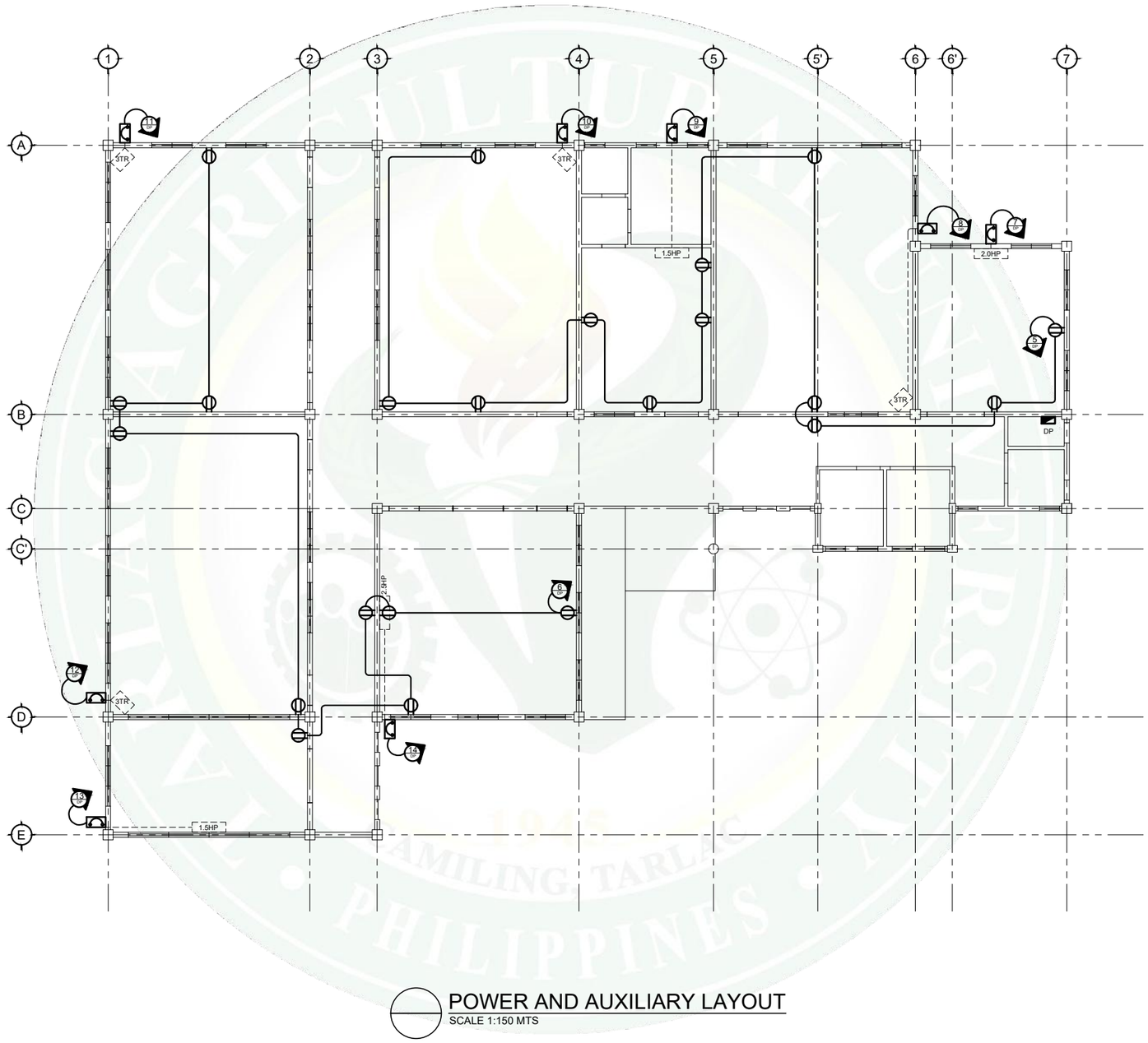
E-01



POWER AND AUXILIARY LAYOUT

SCALE 1:150 MTS

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REMARKS:

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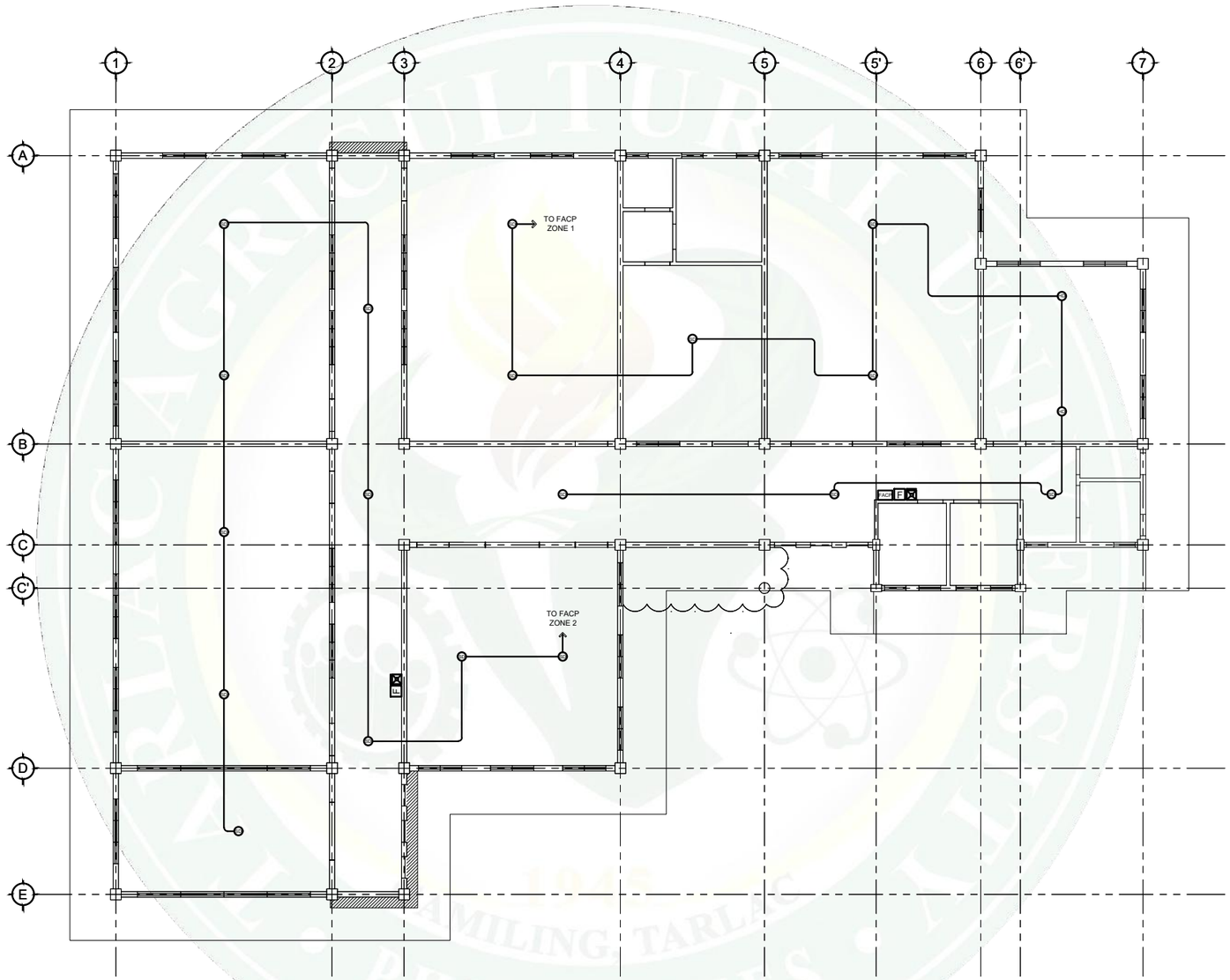
E-02



FIRE DETECTION AND ALARM SYSTEM LAYOUT

SCALE 1:150 MTS

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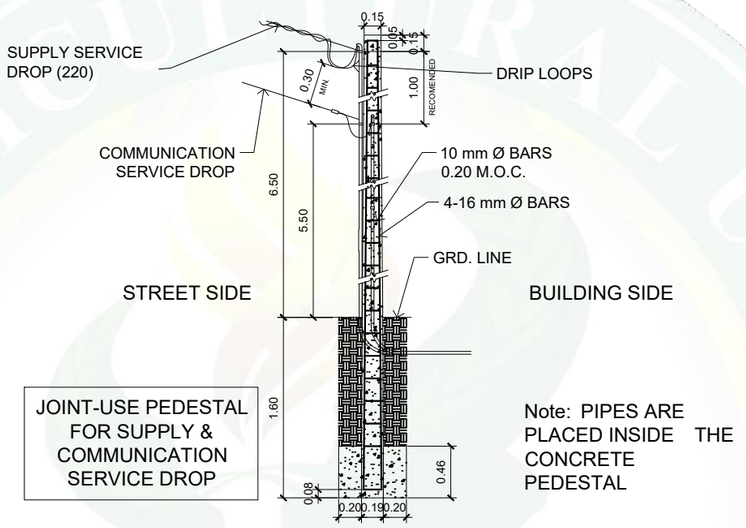
REMARKS:

SHEET NO :
E-03

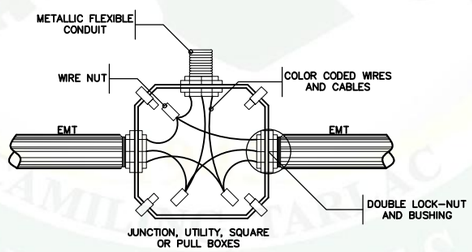
GENERAL NOTES & SPECIFICATION:

1. THE ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND INSPECTION APPLICABLEPROVISIONS OF THE LATEST EDITION OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. POWER SERVICE SHALL BE SINGLE PHASE TWO WIRE 220 V 60Hz AC.
3. THE ELECTRICAL INSTALLATION SHALL BE DONE IN POLYVINYL CONDUIT SCHEDULE, 40 THE MINIMUM SIZE OF WHICH IS 15 MM Ø ELECTRICAL TRADE SIZE, NELTEX IN BRAND, FEEDERS FROM THE KWHR TO SERVICE ENTRANCE SHALL BE RIGID STEEL CONDUIT.
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE THHN UNLESS OTHERWISE INDICATED IN PLANS WHERE THE MINIMUM SHALL BE 3.5 SQ. MM.
5. ALL SERVICES ENTRANCE EQUIPMENT PANEL BOARD AND ALL NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
6. ANY DESCREPANCY IN LOCATION AND RATING OF ELECTRICAL EQUIPMENT SHALL BE VERIFIED WITH THE OWNER AND CHANGES SHALL BE MADE ACCORDINGLY.
7. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND MUST BE APPROVED TYPE FOR THE LOCATION AND PURPOSED INTENDED.
8. MOUNTING HEIGHT SHALL BE AS FOLLOWS:
   - A) LIGHT SWITCH — 1.40 M. ABOVE F.F.L.
   - B) CONVENIENCE OUTLET — 0.30 M. ABOVE F.F.L.
   - C) PANEL BOARD — 1.40 M. ABOVE F.F.L.
   - D) SPECIAL PURPOSED OUTLET — AT CONVENIENCE UPON NEAR EQUIPMENT
9. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF DULY LICENSED PROFESSIONAL ELECTRICAL ENGINEER.



Note: PIPES ARE PLACED INSIDE THE CONCRETE PEDESTAL

SERVICE DROP DETAIL



BOX CONNECTION DETAIL

SCALE NTS

LEGEND

	40 WATTS LED PANEL LIGHT
	40 WATTS SQAURE LED PANEL LIGHT
	12 WATTS SURFACE MOUNTED DOWNLIGHT
	6 WATTS RECESSED ROUND LED PANEL LIGHT
	EMERGENCY LAMP
	16" ORBIT CEILING FAN
S1a	ONE-GANG SWITCH
S2ab	TWO-GANG SWITCH
S2abc	THREE-GANG SWITCH
SF	CEILING FAN SWITCH
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	ACU CIRCUIT BREAKER
	CIRCUIT HOMERUN
	CURRENT LINE
	SWITCH LINE
	DISTRIBUTION PANEL
SD	CONVENTIONAL SMOKE DETECTOR
F	MANUAL CALL POINT
	FIRE ALARM BELL
EOLR	END OF LINE RESISTOR
FACP	FIRE ALARM CONTROL PANEL

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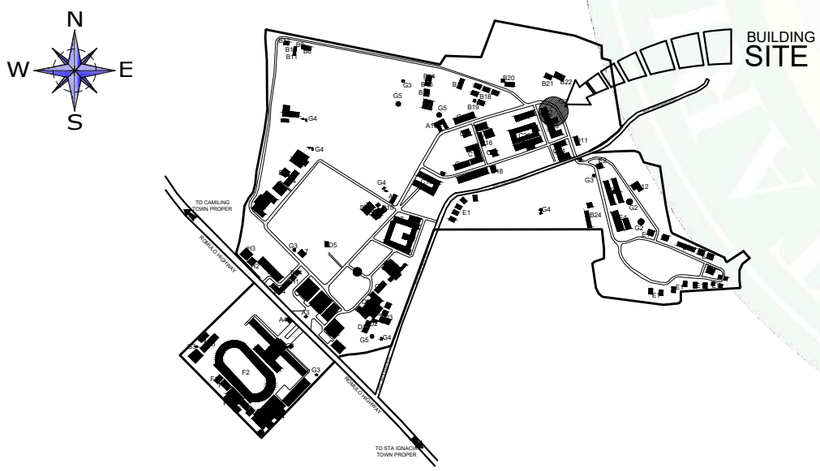
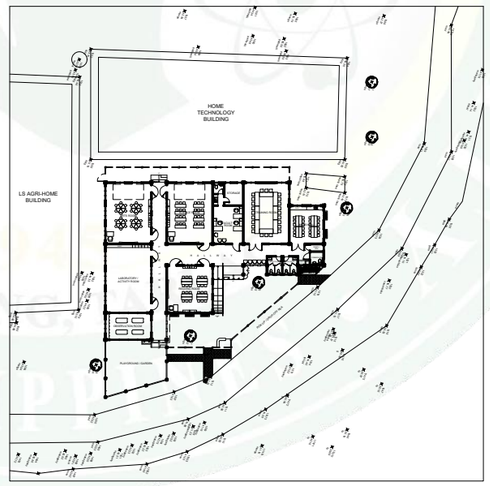
REMARKS:

SHEET NO :
E-04

PERSPECTIVE VIEWS



LOCATION MAP
SCALE N T S



SITE DEVELOPMENT PLAN
SCALE 1:800 MTS

TABLE OF CONTENTS

REPUBLIC OF THE PHILIPPINES
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OFFICE OF THE BUILDING OFFICIALS

DISTRICT / CITY / MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL

MECHANICAL

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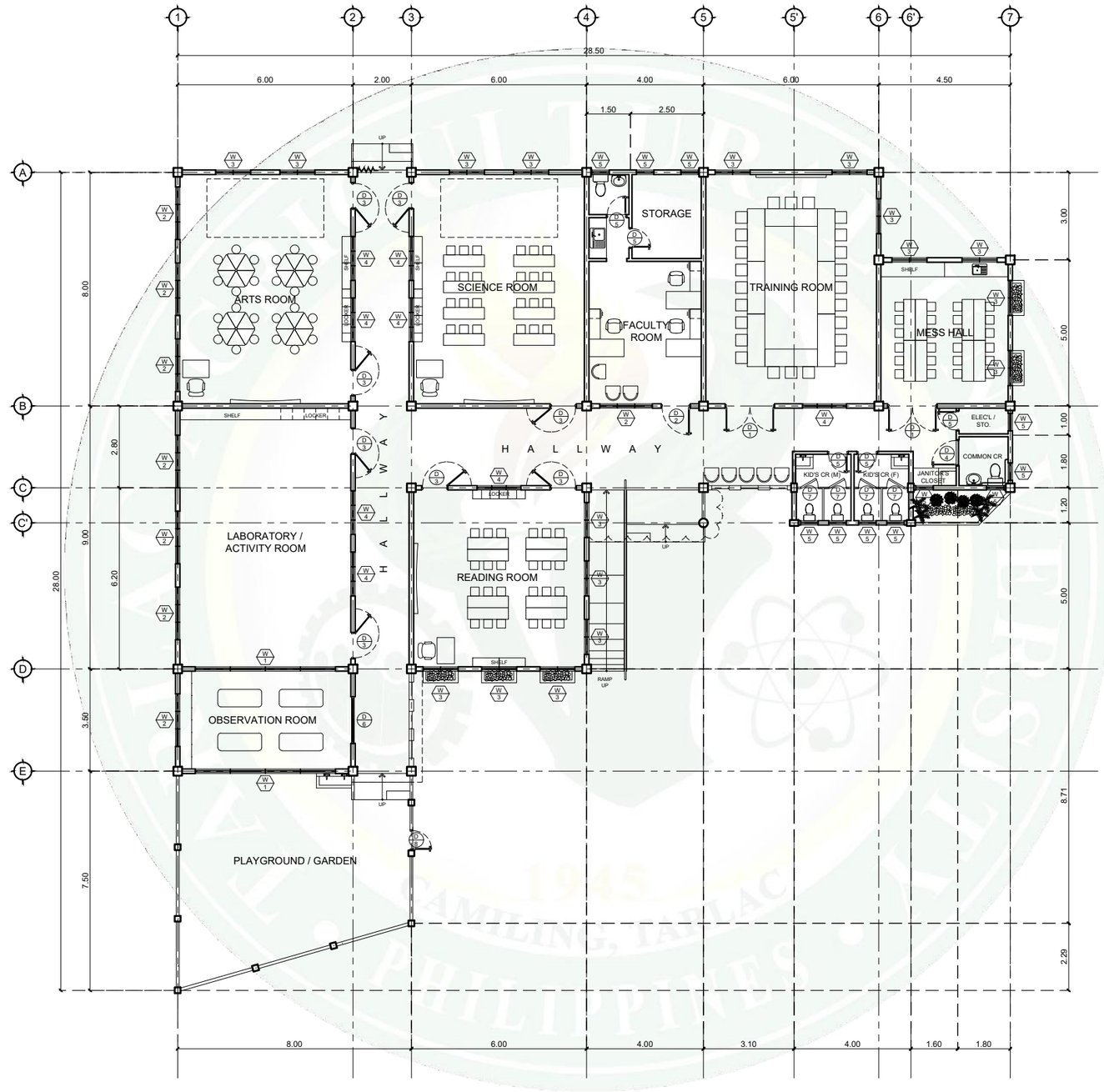

FLOOR PLAN
SCALE 1:175 MTS

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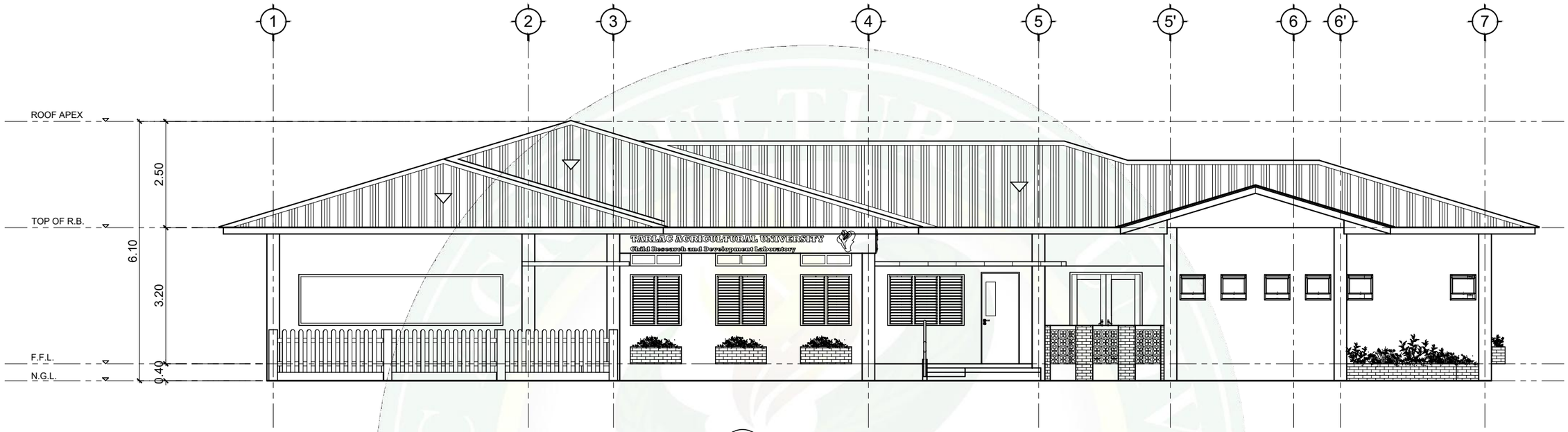
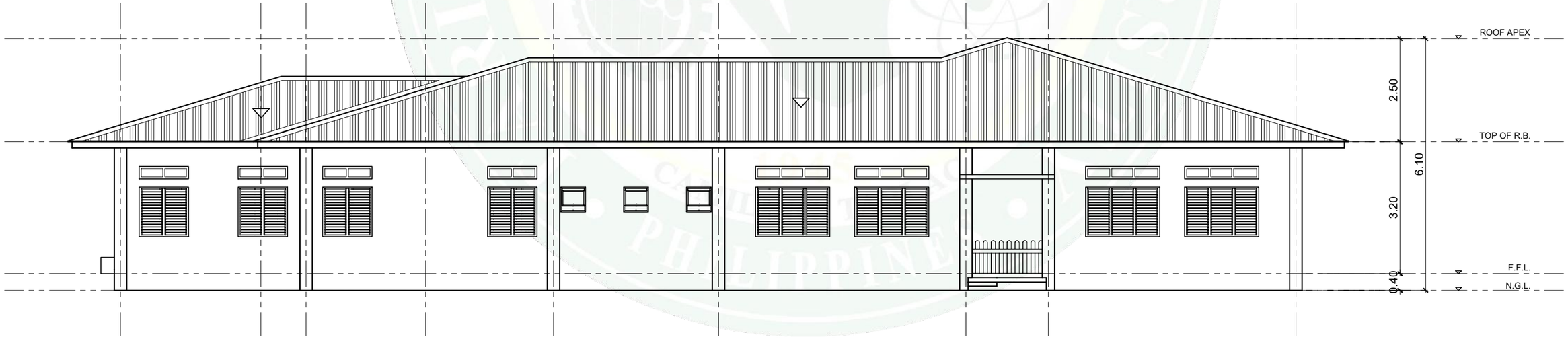


FRONT ELEVATION
SCALE 1:100 MTS



REAR ELEVATION
SCALE 1:100 MTS

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PLACE :

R.A 9266 SECTION 33

DRAWINGS & SPECIFICATION AND OTHER CONTRACT DOCUMENTS DULY SIGNED,STAMPED OR SEALED,AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY & DOCUMENTS OF ARCHITECT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE,W/ OUT THE WRITEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENTS

ENGINEER:
PRC NO: | PTR NO:
TIN NO: | DATE:
PLACE :

PROJECT TITLE :
CONSTRUCTION OF COLLEGE OF EDUCATION CHILD RESEARCH AND DEVELOPMENT LABORATORY OF EXPERIENCES

LOCATION :
TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

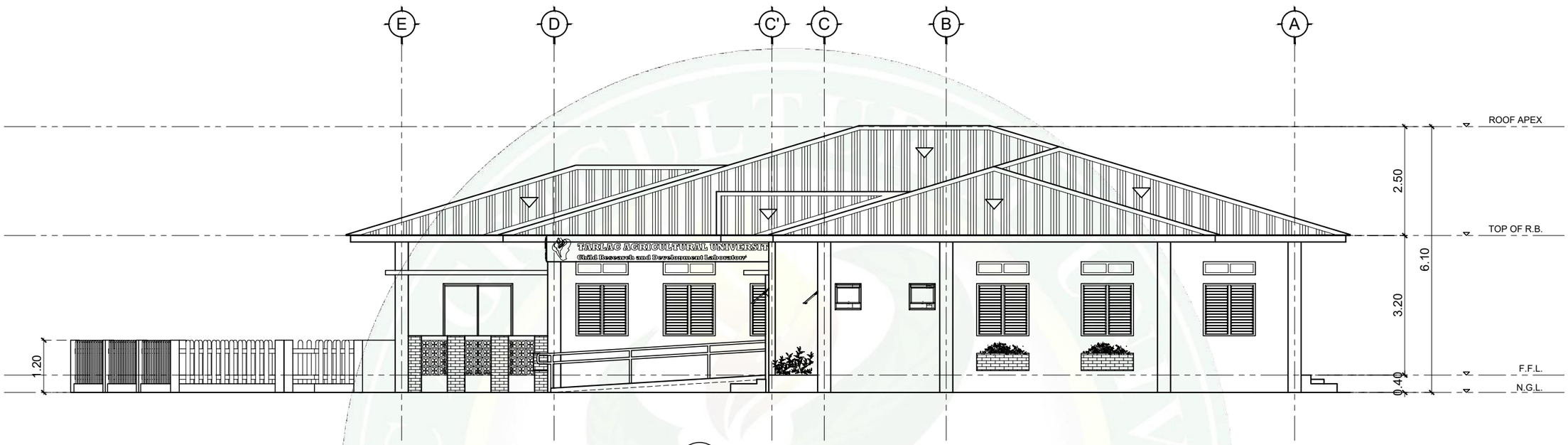
SHEET CONTENTS :
AS SHOWN

PREPARED BY :	NOTED BY :	CHECKED BY :	RECOMMENDING APPROVAL:	
AR. PAULA ERIKA S. BOCOBO DRAFTSMAN	AR. ALVIN R. DELA VEGA, RMP HEAD, INFRASTRUCTURE DEVELOPMENT	ENGR. ROCHEL E. VIBAR CHIEF, DLUZ	EUGENE S. VALERIANO, DIT DIRECTOR, PLANNING AND DEVT. OFFICE	LEONELL P. LIJAUCO, PhD. VICE PRESIDENT FOR PLANNING AND QUALITY ASSURANCE ARNOLD R. LORENZO, Ed.D VICE PRESIDENT FOR FINANCE AND ADMINISTRATION

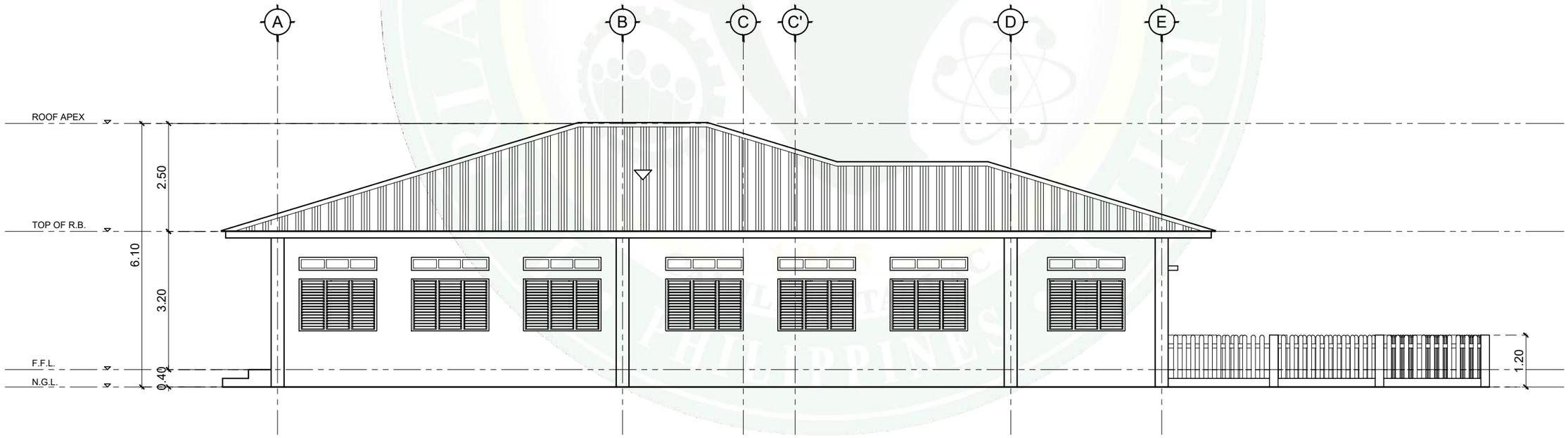
APPROVED:
SILVERIO RAMON DC. SALUNSON, DBA
PRESIDENT

REMARKS:

SHEET NO :
A-03
3 / 14



RIGHT SIDE ELEVATION
SCALE 1:100 MTS



LEFT SIDE ELEVATION
SCALE 1:100 MTS

REPUBLIC OF THE PHILIPPINES
TARLAC AGRICULTURAL UNIVERSITY
CAMILING TARLAC

PLANNING AND DEVELOPMENT OFFICE

INFRASTRUCTURE DEVELOPMENT, LANDUSE AND ZONING UNIT

ARCHITECT:

IAPOA NO:

PRC NO: | PTR NO:

TIN NO: | DATE:

PLACE :

R.A 9266 SECTION 33

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LOCATION :
TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

SHEET CONTENTS :

AS SHOWN

PREPARED BY :
AR. PAULA ERIKA S. BOCOBO — INSTRUCTOR

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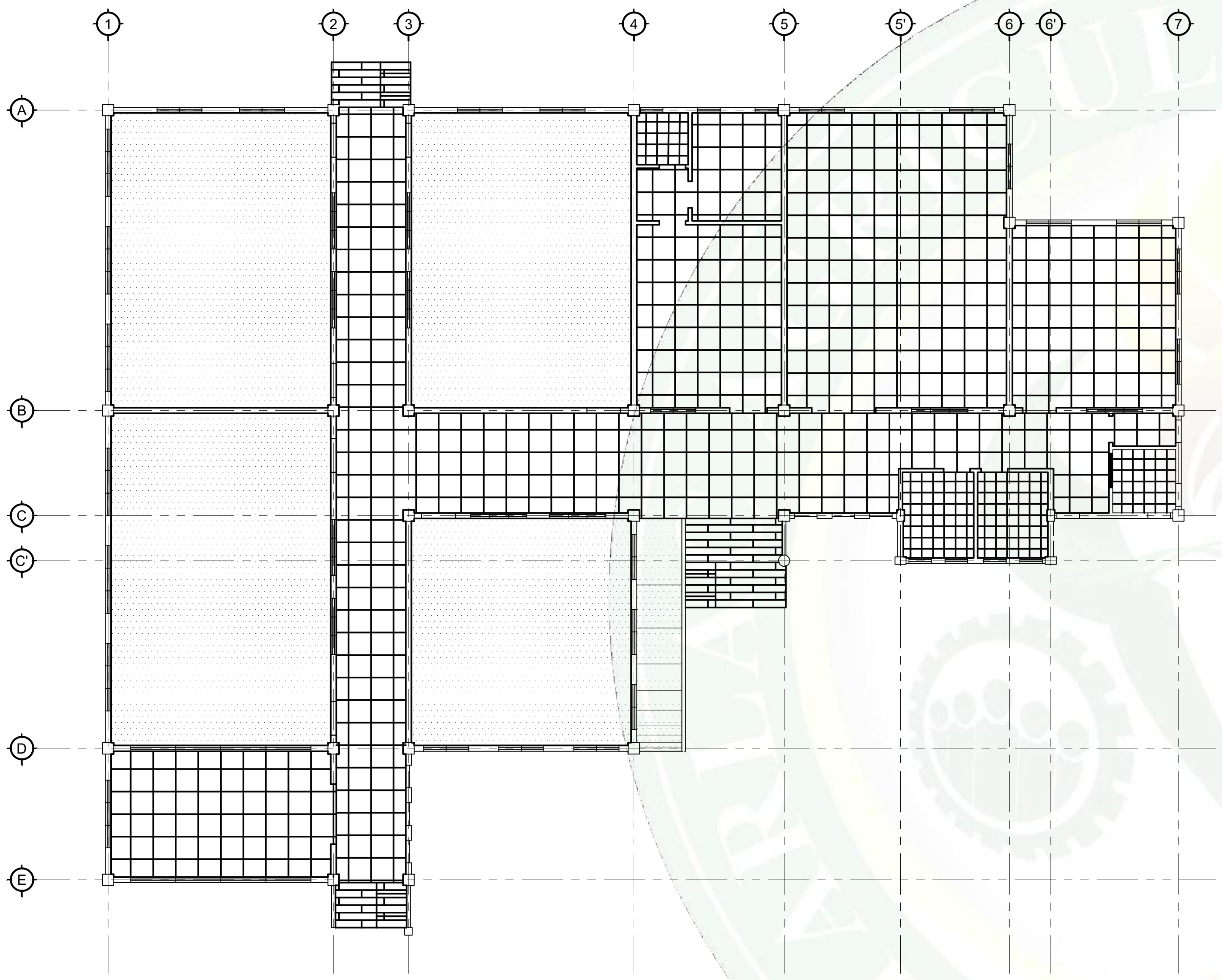
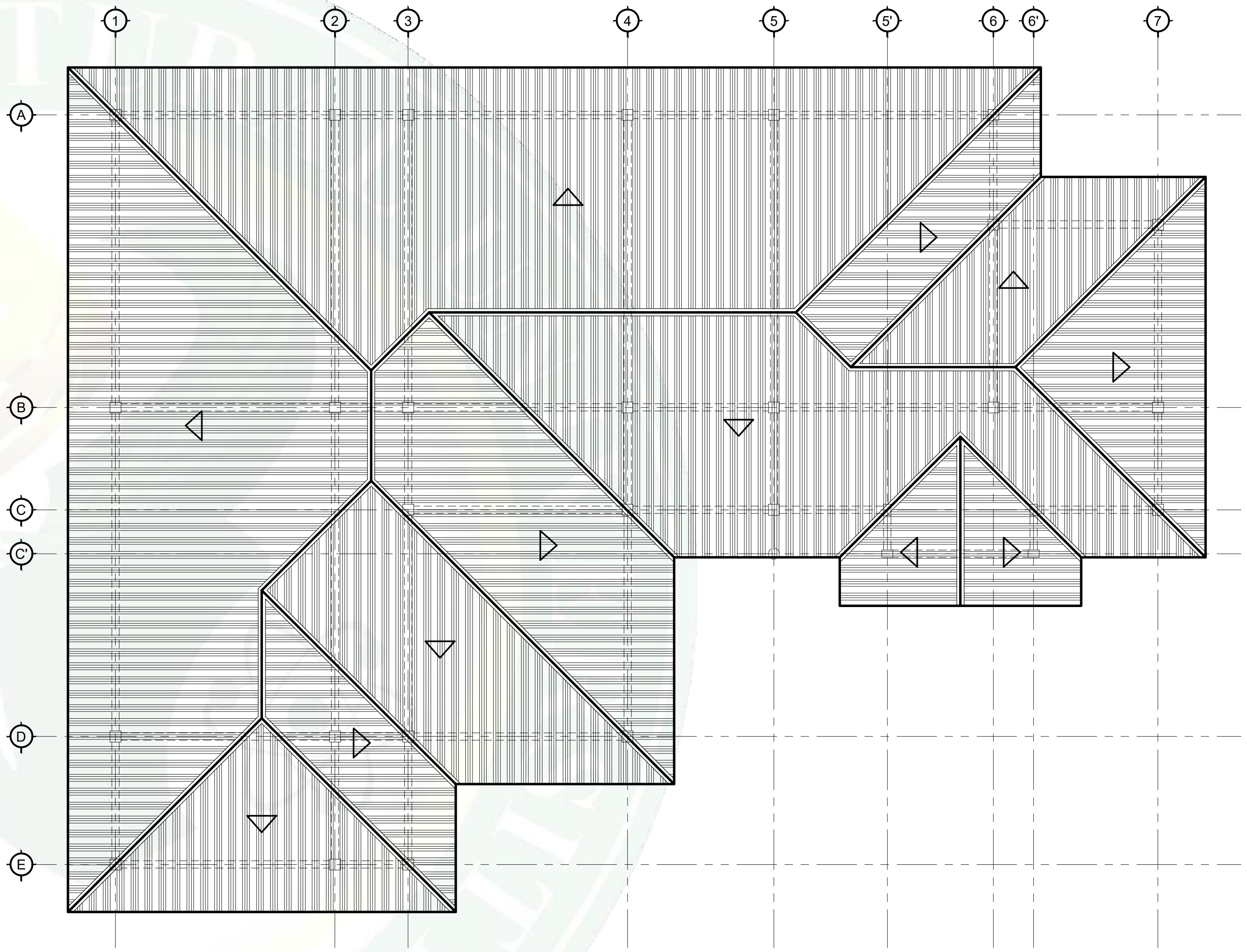
APPROVED:
SILVERIO RAMON DC. SALUNSON, DBA
PRESIDENT

REMARKS:

SHEET NO :
A-04
4 / 14

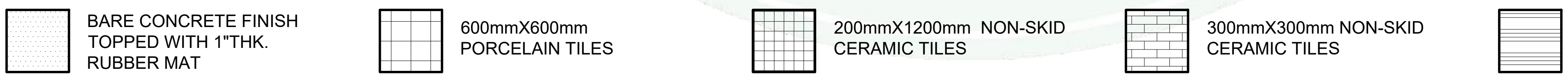


FLOOR FINISH LAYOUT
SCALE 1:175 MTS



ROOF PLAN
SCALE 1:175 MTS

LEGEND



BARE CONCRETE FINISH TOPPED WITH 1"THK. RUBBER MAT	600mmX600mm PORCELAIN TILES
200mmX1200mm NON-SKID CERAMIC TILES	300mmX300mm NON-SKID CERAMIC TILES
GA. 24 RIB-TYPE LONGSPAN ROOFING SHEET	

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LOCATION :
TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

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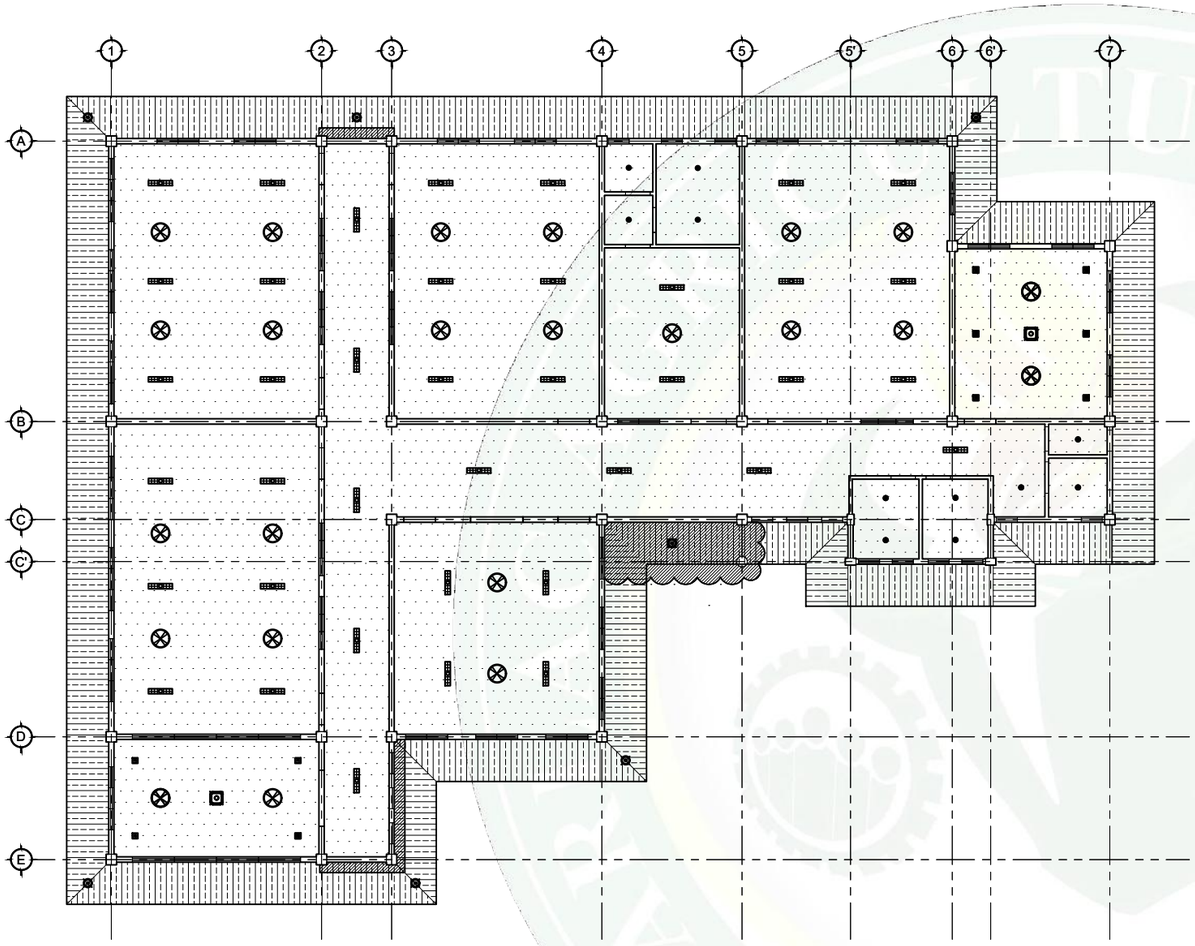
AR. PAULA ERIKA S. BOCOBO DRAFTSPERSON	AR. ALVIN R. DELA VEGA, RMP PROJECT DEVELOPMENT OFFICER II	ENGR. ROCHEL E. VIBAR CHIEF, IDLUZ	EUGENE S. VALERIANO, DIT DIRECTOR, PLANNING AND DEV'T. OFFICE	LEONELL P. LIJAUCO, PhD. VICE PRESIDENT FOR PLANNING AND QUALITY ASSURANCE	ARNOLD R. LORENZO, Ed.D VICE PRESIDENT FOR FINANCE AND ADMINISTRATION	SILVERIO RAMON DC. SALUNSON, DBA PRESIDENT

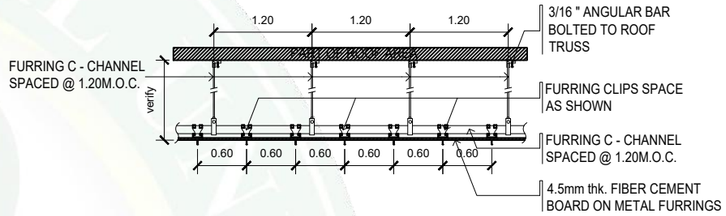
REMARKS:

SHEET NO : A-05

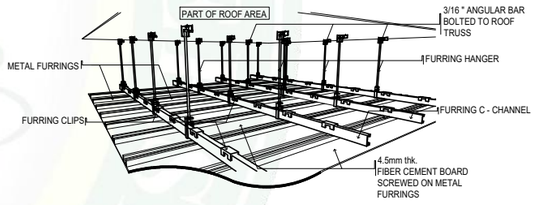
5 / 14



REFLECTED CEILING PLAN
SCALE 1:175 MTS



TYPICAL CEILING DETAILED SECTION
SCALE 1:75 MTS



TYPICAL CEILING 3D VIEW
SCALE NTS

LEGEND

- 4.5mm THK FIBER CEMENT BOARD
- GA. 26 METAL SPANDREL
- LEDGE SOFFIT
- ORBIT FAN
- 24w LED PANEL LIGHT
- 9w SURFACE MOUNTED ROUND DOWNLIGHT
- 6w CIRCULAR PINLIGHT
- 6w SQUARE PINLIGHT

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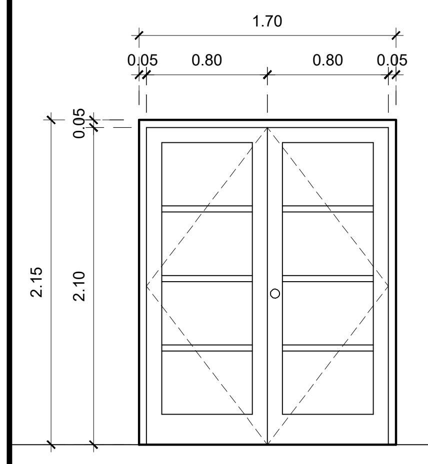
AR. PAULA ERIKA S. BOCOBO (ARCHITECT) / AR. ALVIN R. DELA VEGA, RMP (DEVELOPMENT PLANNING OFFICER)	ENGR. ROCHEL E. VIBAR (CDSP - DEVT)	EUGENE S. VALERIANO, DIT (DIRECTOR, PLANNING AND DEVT. OFFICE)	LEONELL P. LIJAUCO, PhD. (VICE PRESIDENT FOR PLANNING AND QUALITY ASSURANCE) / ARNOLD R. LORENZO, Ed.D (VICE PRESIDENT FOR FINANCE AND ADMINISTRATION)

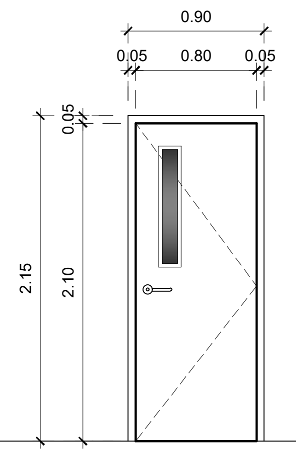
APPROVED:
SILVERIO RAMON DC. SALUNSON, DBA
PRESIDENT

REMARKS:

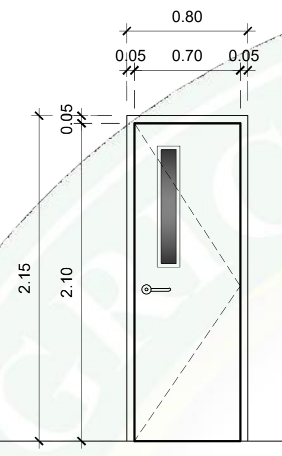
SHEET NO :
A-06
6
14



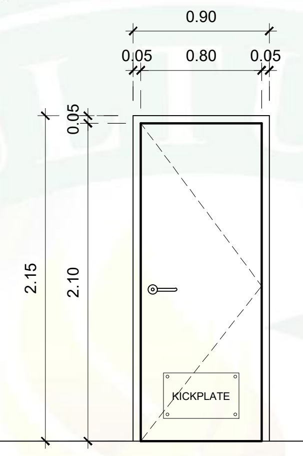
D1	QUANTITY	2 SETS
	LOCATION	TRAINING ROOM, MESS HALL
DESCRIPTION		SINGLE SWING, DOUBLE PANEL WOODEN DOOR WITH COMPLETE ACCESSORIES



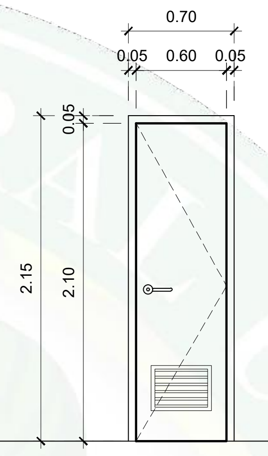
D2	QUANTITY	1 SET
	LOCATION	FACULTY ROOM
DESCRIPTION		SINGLE SWING WOODEN FLUSH DOOR WITH VIEWING GLASS AND COMPLETE ACCESSORIES



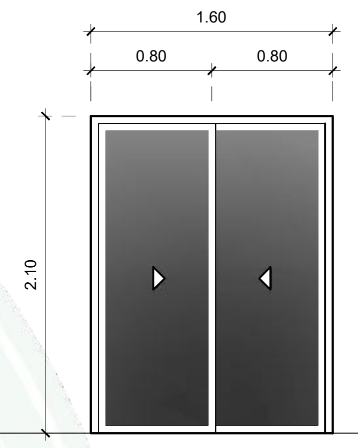
D3	QUANTITY	8 SETS
	LOCATION	CLASSROOMS/LAB
DESCRIPTION		SINGLE SWING WOODEN FLUSH DOOR WITH VIEWING GLASS AND COMPLETE ACCESSORIES



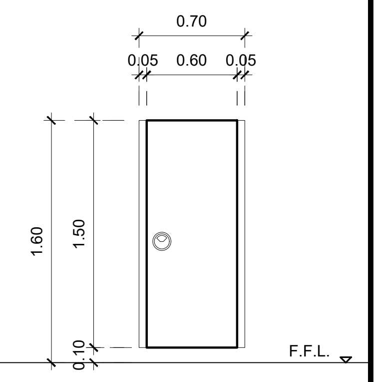
D4	QUANTITY	1 SET
	LOCATION	COMMON CR
DESCRIPTION		SINGLE SWING WOODEN FLUSH DOOR WITH KICKPLATE AND COMPLETE ACCESSORIES



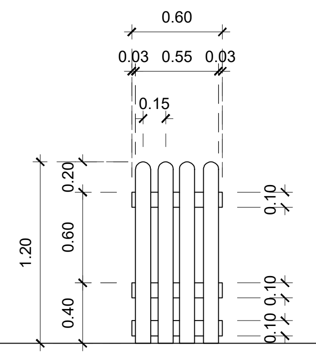
D5	QUANTITY	5 SETS
	LOCATION	KIDS' CR, ELEC'L, FACULTY RM.
DESCRIPTION		SINGLE SWING WOODEN FLUSH DOOR WITH LOUVERS AND COMPLETE ACCESSORIES



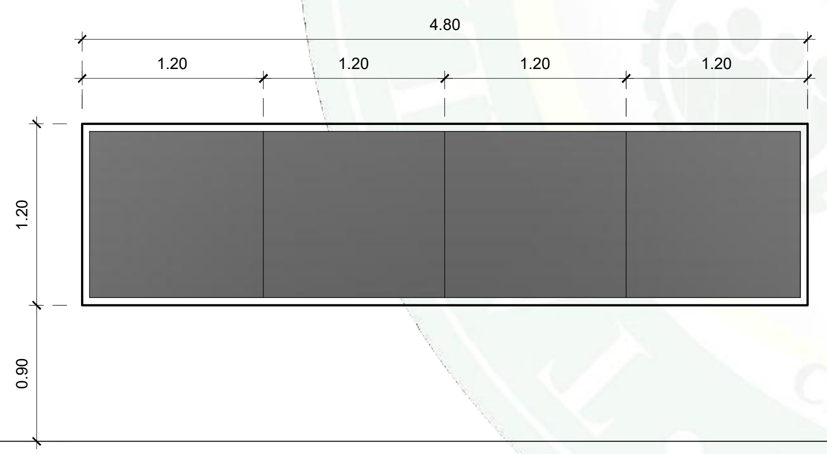
D6	QUANTITY	1 SET
	LOCATION	OBSERVATION ROOM
DESCRIPTION		SLIDING DOOR WITH 10mm THK. BRONZE GLASS IN BROWN ANALOK FRAME AND COMPLETE ACCESSORIES



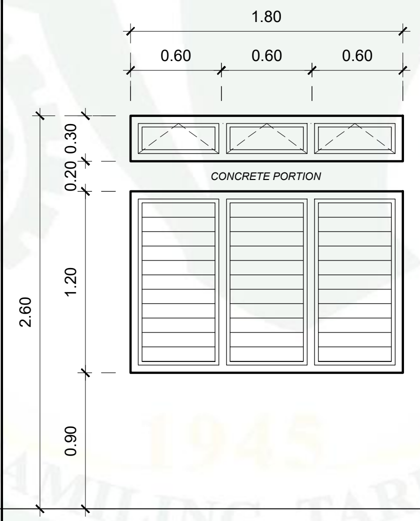
D7	QUANTITY	4 SETS
	LOCATION	KIDS' CR
DESCRIPTION		SINGLE SWING ¾" THK. MELAMINE LAMINATED BOARD WITH OCCUPANCY INDICATOR & COMPLETE ACCESSORIES



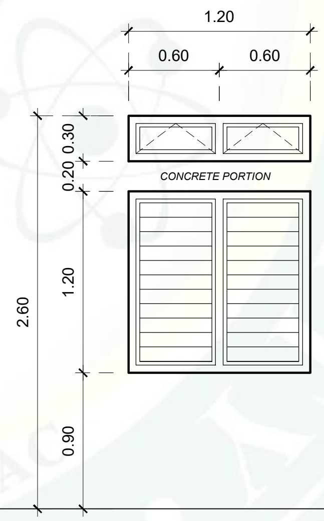
D8	QUANTITY	1 SET
	LOCATION	PLAYGROUND/GARDEN
DESCRIPTION		SINGLE SWING ASSEMBLED 1"X4" LUMBER WITH COMPLETE ACCESSORIES



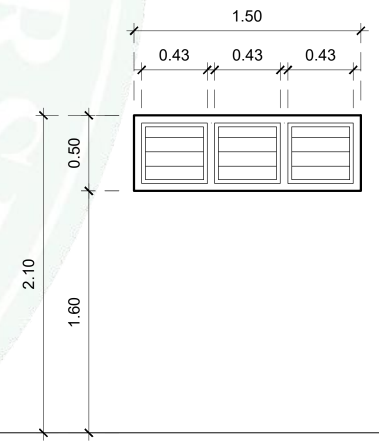
W1	QUANTITY	2 SETS
	LOCATION	OBSERVATION ROOM
DESCRIPTION		FIXED WINDOW WITH 10mm THK. TEMPERED GLASS WITH ONE-WAY REFLECTIVE FILM IN BROWN POWDER COATED ALUMINUM FRAME



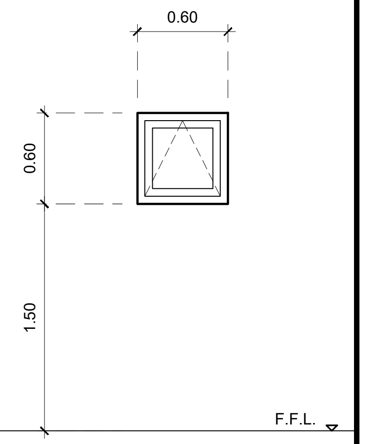
W2	QUANTITY	7 SETS + 1 SET (W/OUT TRANSOM)
	LOCATION	OBSERVATION RM, CLASSROOMS + FACULTY RM.
DESCRIPTION		JALOUSIE WINDOW WITH 4mm THK. BRONZE GLASS BLADES IN BROWN ALUMINUM FRAME



W3	QUANTITY	16 SETS + 1 SET (W/OUT TRANSOM)
	LOCATION	CLASSROOMS, FACULTY RM., MESS HALL
DESCRIPTION		JALOUSIE WINDOW WITH 4mm THK. BRONZE GLASS BLADES IN BROWN ALUMINUM FRAME



W4	QUANTITY	8 SETS
	LOCATION	CLASSROOMS, LAB, FACULTY RM.
DESCRIPTION		JALOUSIE WINDOW WITH 4mm THK. BRONZE GLASS BLADES IN BROWN ALUMINUM FRAME



W5	QUANTITY	11 SETS
	LOCATION	CRs, ELEC'L, J. CLOSET, STO.
DESCRIPTION		AWNING WINDOW WITH 4mm THK. BRONZE GLASS IN BROWN ANALOK FRAME

SCHEDULE OF DOORS AND WINDOWS

SCALE 1:50 MTS

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CAMILING TARLAC
PLANNING AND DEVELOPMENT OFFICE
INFRASTRUCTURE DEVELOPMENT, LANDUSE AND ZONING UNIT

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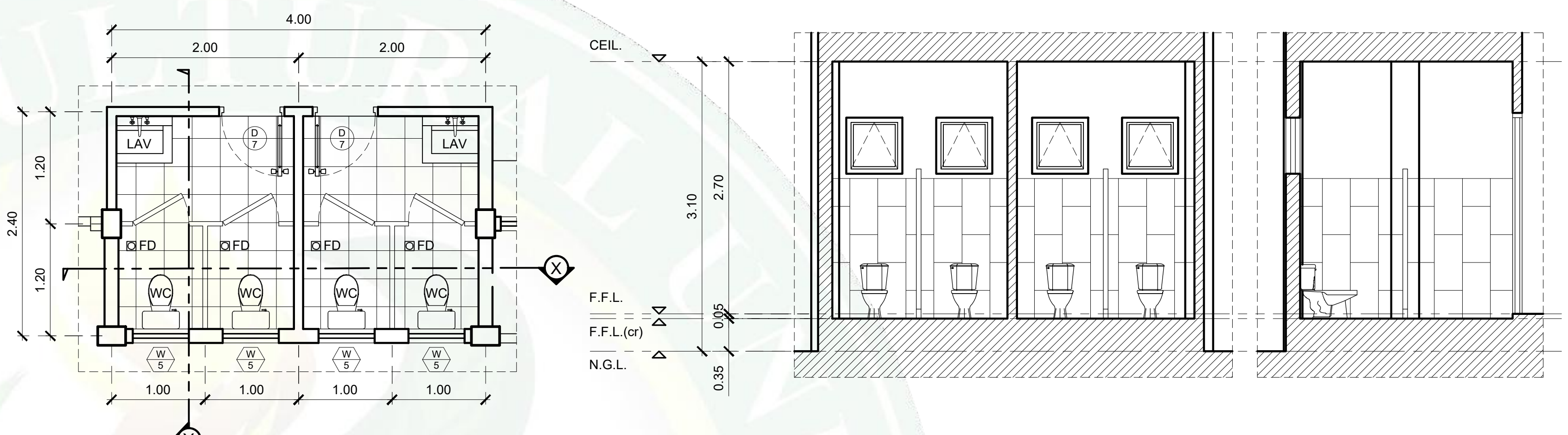
		CHIEF, IDLUZ	DIRECTOR, PLANNING AND DEV'T. OFFICE	VICE PRESIDENT FOR PLANNING AND QUALITY ASSURANCE	VICE PRESIDENT FOR FINANCE AND ADMINISTRATION	PRESIDENT

REMARKS:

SHEET NO :
A-06
6 / 14

SCHEDULE OF FINISHES

	FLOOR	WALL (Facing the Floor Plan)				CEILING
AREA	FINISH	N	S	E	W	FINISH
SCIENCE ROOM	PLAIN CONCRETE FINISH (TO BE FILLED W/ 1" THK. RUBBER MAT)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
ARTS ROOM	PLAIN CONCRETE FINISH (TO BE FILLED W/ 1" THK. RUBBER MAT)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
READING ROOM	PLAIN CONCRETE FINISH (TO BE FILLED W/ 1" THK. RUBBER MAT)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
LABORATORY / ACTIVITY ROOM	PLAIN CONCRETE FINISH (TO BE FILLED W/ 1" THK. RUBBER MAT)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
OBSERVATION ROOM	600mm x 600mm PORCELAIN FLOOR TILES	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
TRAINING ROOM	600mm x 600mm PORCELAIN FLOOR TILES	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
FACULTY ROOM	600mm x 600mm PORCELAIN FLOOR TILES	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
STORAGE (FACULTY)	600mm x 600mm PORCELAIN FLOOR TILES	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	4.5mm THK. FIBER CEMENT BOARD
POWDER ROOM (FACULTY)	300mm x 300mm NON-SKID CERAMIC FLOOR TILES	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	4.5mm THK. FIBER CEMENT BOARD
KITCHENETTE (FACULTY)	600mm x 600mm PORCELAIN FLOOR TILES	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
KIDS' COMFORT ROOM (MALE)	300mm x 300mm NON-SKID CERAMIC FLOOR TILES	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	4.5mm THK. FIBER CEMENT BOARD
KIDS' COMFORT ROOM (FEMALE)	300mm x 300mm NON-SKID CERAMIC FLOOR TILES	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	4.5mm THK. FIBER CEMENT BOARD
COMFORT ROOM (PWD)	300mm x 300mm NON-SKID CERAMIC FLOOR TILES	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	300mmX600mm WALL TILES & SMOOTH PLASTERED FINISH (PAINTED) ABOVE	4.5mm THK. FIBER CEMENT BOARD
HALLWAY	600mm x 600mm PORCELAIN FLOOR TILES	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	SMOOTH PLASTERED FINISH (PAINTED)	4.5mm THK. FIBER CEMENT BOARD
STAIRS	200mm x 1200mm NON-SKID FLOOR TILES WITH RUBBER NOSING	---	---	---	---	LEDGE SOFFIT



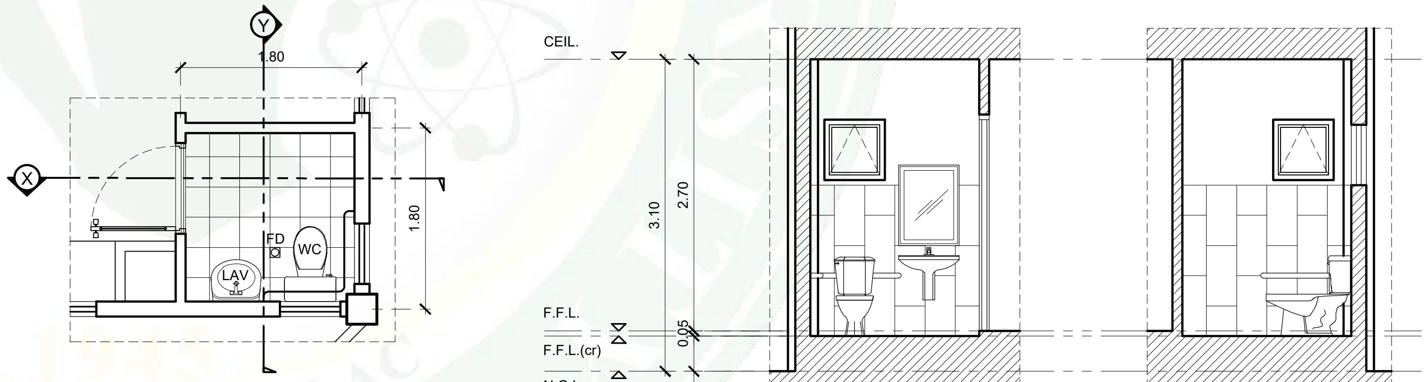
PLAN

SECTION THRU 'X'

SECTION THRU 'Y'

KIDS' COMFORT ROOM DETAILS

SCALE 1:75 MTS



PLAN

SECTION THRU 'X'

SECTION THRU 'Y'

KIDS' COMFORT ROOM DETAILS

SCALE 1:75 MTS

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CONSTRUCTION OF COLLEGE OF EDUCATION CHILD RESEARCH AND DEVELOPMENT LABORATORY OF EXPERIENCES

LOCATION :
TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

SHEET CONTENTS :
AS SHOWN

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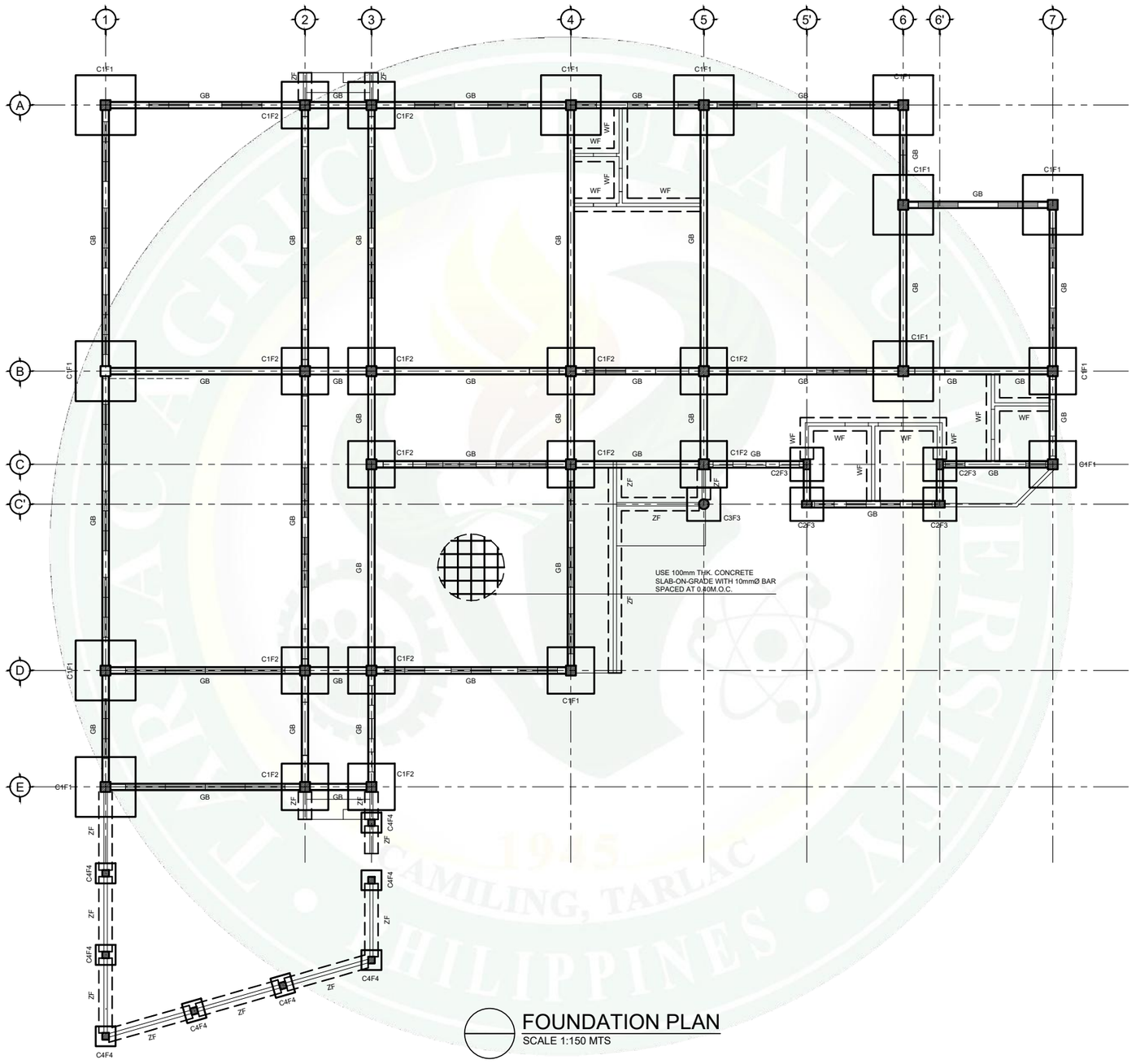
APPROVED: SILVERIO RAMON DC. SALUNSON, DBA — PRESIDENT

REMARKS:

SHEET NO : A-06

6 / 14



FOUNDATION PLAN
SCALE 1:150 MTS

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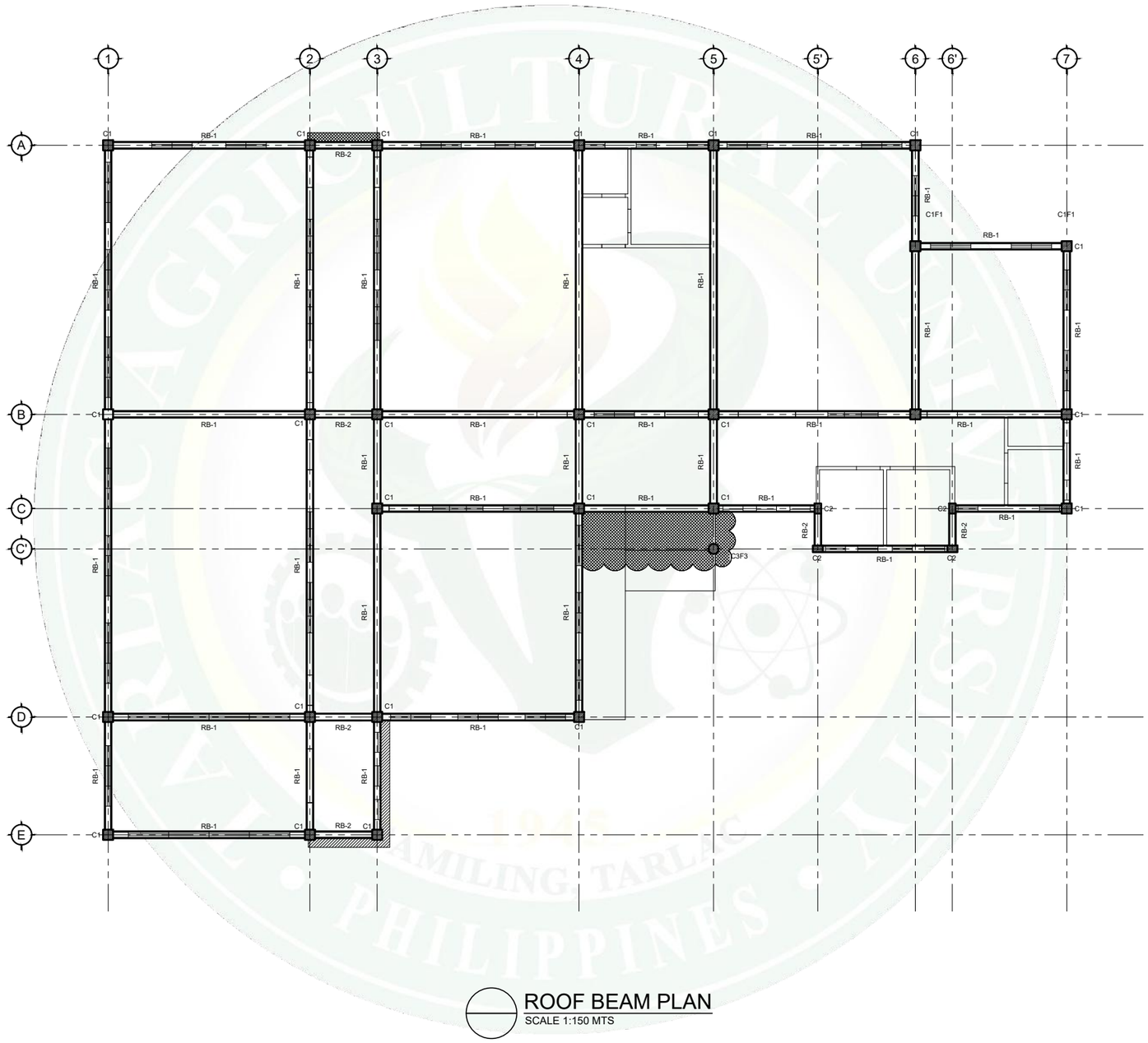
REMARKS:

SHEET NO :

S-01

9 / 16



ROOF BEAM PLAN
SCALE 1:150 MTS

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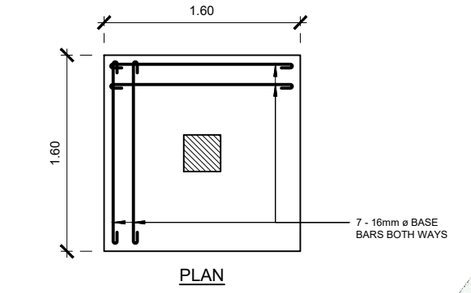

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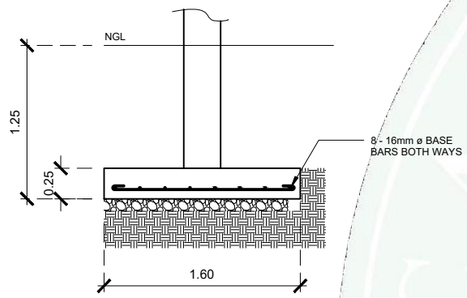
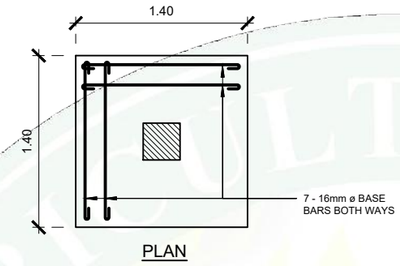


SECTION

F1 DETAIL
SCALE 1:50 MTS



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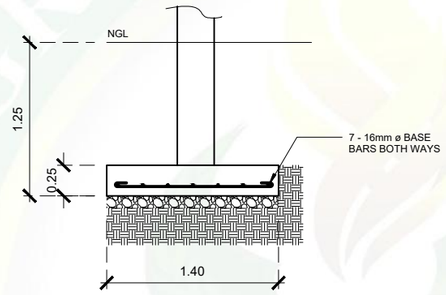

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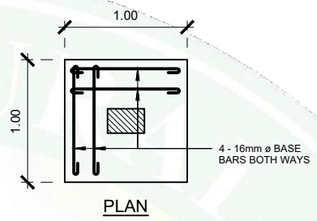
F2 DETAIL
SCALE 1:50 MTS



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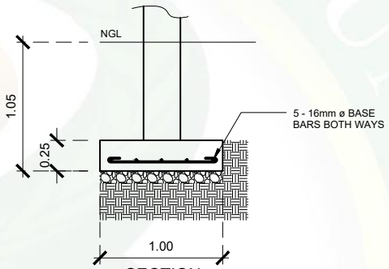

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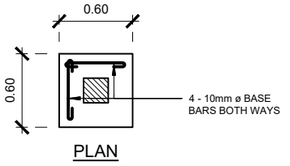
F3 DETAIL
SCALE 1:50 MTS



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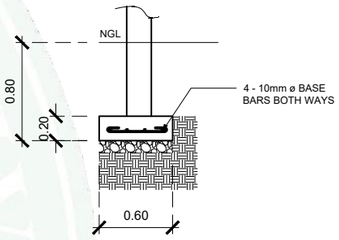


SECTION

F4 DETAIL
SCALE 1:50 MTS

SCHEDULE OF COLUMN

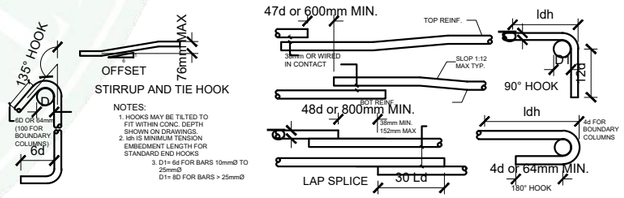
MARK	SECTION (Footing - Grade)	VERTICAL REINF	TIES DIA	TIES NO.	TIES SPACING	REMARKS
C1			10mm	2	50	
		4-16mm		3	100	
				5	150	
	300x300			REST	200	
C2			10mm	2	50	
		4-16mm		3	100	
				5	150	
	300x200			REST	200	
C3			10mm	CONT.	CONT.	
		4-16mm				
	D=300mm					
C4			10mm	2	50	
		4-10mm		2	100	
				2	150	
	200x200			REST	200	

SCHEDULE OF GRADE BEAM

MARK	CONT'. BARS	END SUPPORT (L) SECTION	END SUPPORT (L) REINF	MIDSPAN SECTION	MIDSPAN REINF	END SUPPORT (R) SECTION	END SUPPORT (R) REINF	STIRRUPS DIA	STIRRUPS NO.	STIRRUPS SPACING	REMARKS
								10mm	2	50	
GB	2-12mm top		2-12mm		2-12mm		2-12mm		2	100	
									2	150	
	2-12mm bot.		2-12mm		2-12mm		2-12mm				
									REST	200	
		200x300		200x300		200x300					

SCHEDULE OF ROOF BEAM

MARK	CONT'. BARS	END SUPPORT (L) SECTION	END SUPPORT (L) REINF	MIDSPAN SECTION	MIDSPAN REINF	END SUPPORT (R) SECTION	END SUPPORT (R) REINF	STIRRUPS DIA	STIRRUPS NO.	STIRRUPS SPACING	REMARKS
								10mm	2	50	
RB1	2-12mm top		3-12mm		2-12mm		3-12mm		3	100	
									5	150	
	2-12mm bot.		2-12mm		3-12mm		2-12mm				
									REST	200	
		200x400		200x400		200x400					
								10mm	2	50	
RB2	2-12mm top		2-12mm		2-12mm		2-12mm		2	100	
									2	150	
	2-12mm bot.		2-12mm		2-12mm		2-12mm				
									REST	200	
		200x400		200x400		200x400					



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REMARKS:

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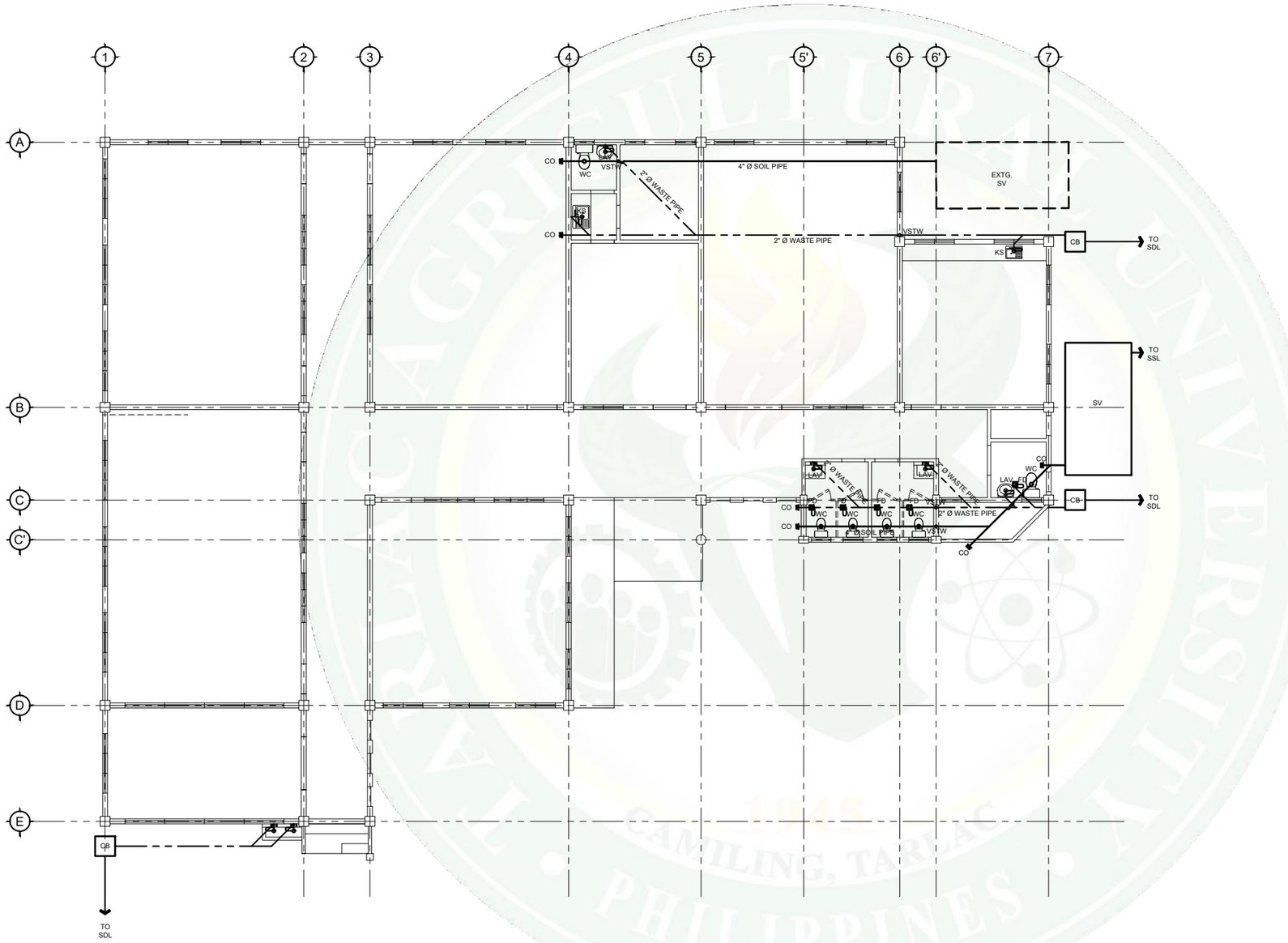
S-03
11 / 16



LEGEND

	KS	KITCHEN SINK
	LAV	LAVATORY
	WC	WATER CLOSET
	URI	URINAL
	F	FAUCET
HF	HF	HANDHELD FAUCET
HB	HB	HOSE BIBB
	LAV	LAVATORY DRAIN
	FD	FLOOR DRAIN
	CO	CLEANOUT
GD	GD	GUTTER DRAIN
DS	DS	DOWN SPOUT
M	M	WATER METER
	GV	GATE VALVE
	CV	CHECK VALVE
	CWL	COLD WATER LINE
	WP	WASTE PIPE
	SP	SOIL PIPE

SEWERLINE LAYOUT

SCALE 1:150 MTS

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REMARKS:

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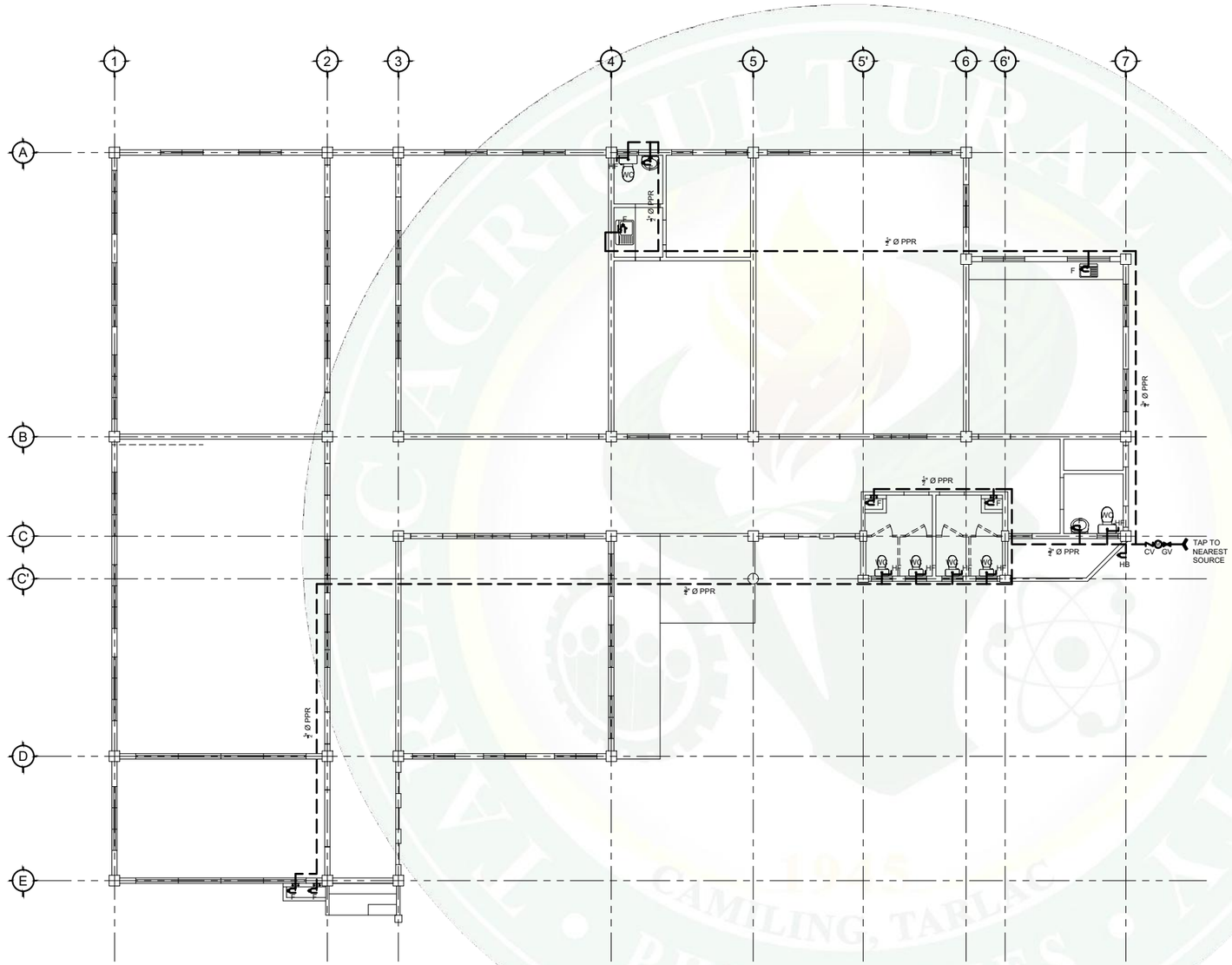

WATERLINE LAYOUT
SCALE 1:150 MTS

LEGEND

	KS	KITCHEN SINK
	LAV	LAVATORY
	WC	WATER CLOSET
	URI	URINAL
	F	FAUCET
HF	HF	HANDHELD FAUCET
HB	HB	HOSE BIBB
	LAV	LAVATORY DRAIN
	FD	FLOOR DRAIN
	CO	CLEANOUT
GD	GD	GUTTER DRAIN
DS	DS	DOWN SPOUT
M	M	WATER METER
	GV	GATE VALVE
	CV	CHECK VALVE
	CWL	COLD WATER LINE
	WP	WASTE PIPE
	SP	SOIL PIPE

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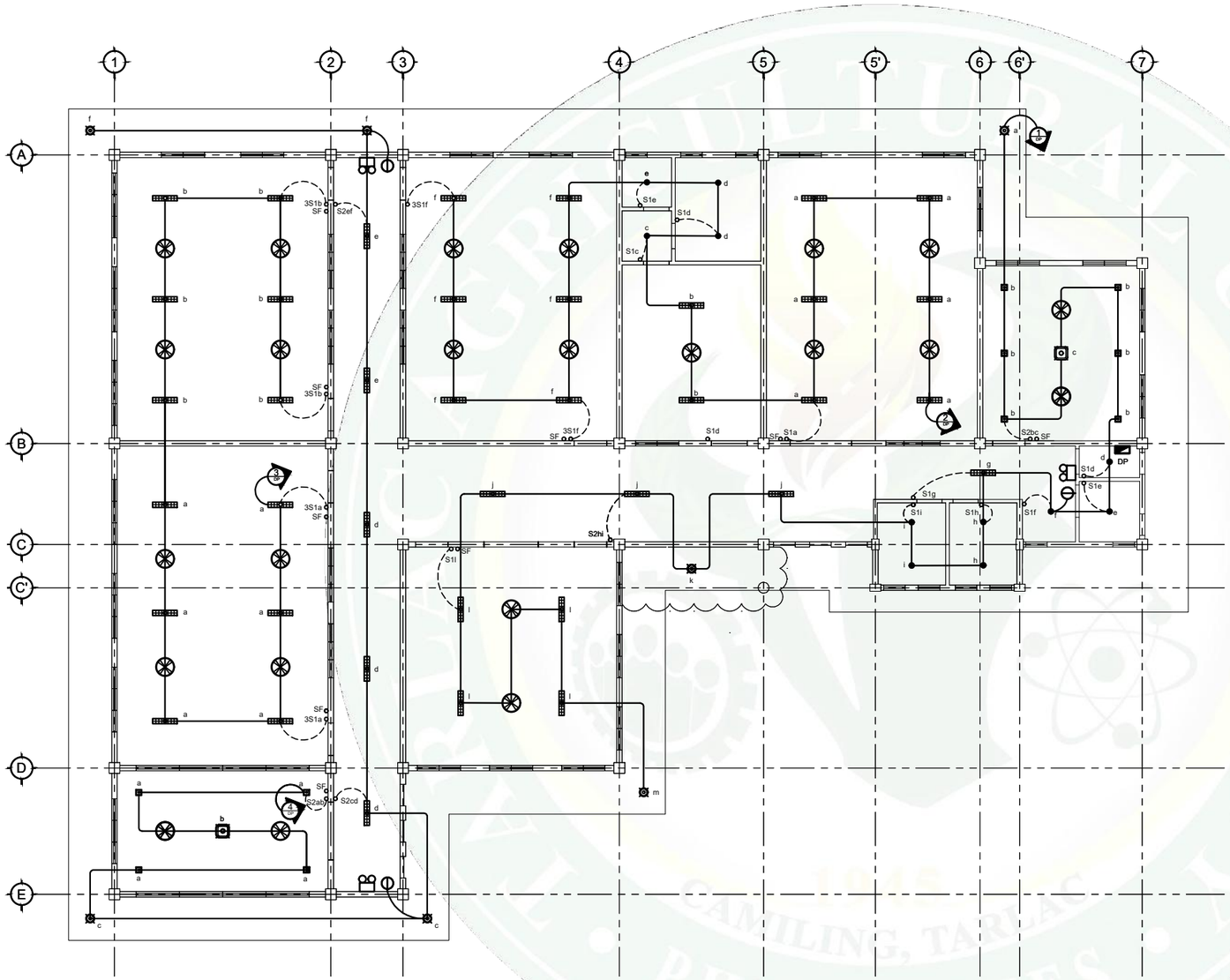

LIGHTING LAYOUT
SCALE 1:150 MTS

LEGEND

	40 WATTS LED PANEL LIGHT
	40 WATTS SQAURE LED PANEL LIGHT
	12 WATTS SURFACE MOUNTED DOWNLIGHT
	9 WATTS RECESSED ROUND LED PANEL LIGHT
	EMERGENCY LAMP
	16" ORBIT CEILING FAN
P	PROJECTOR OULET
S1a	ONE-GANG SWITCH
S2ab	TWO-GANG SWITCH
S2abc	THREE-GANG SWITCH
SF	CEILING FAN SWITCH
SP	PROJECTOR SWITCH
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	FLOOR MOUNTED CONVENIENCE OUTLET
	ACU CIRCUIT BREAKER
B	BOOSTER PUMP
	CIRCUIT HOMERUN
	CURRENT LINE
	SWITCH LINE
	DISTRIBUTION PANEL
SD	CONVENTIONAL SMOKE DETECTOR
F	MANUAL CALL POINT
	FIRE ALARM BELL
EOLR	END OF LINE RESISTOR
FACP	FIRE ALARM CONTROL PANEL

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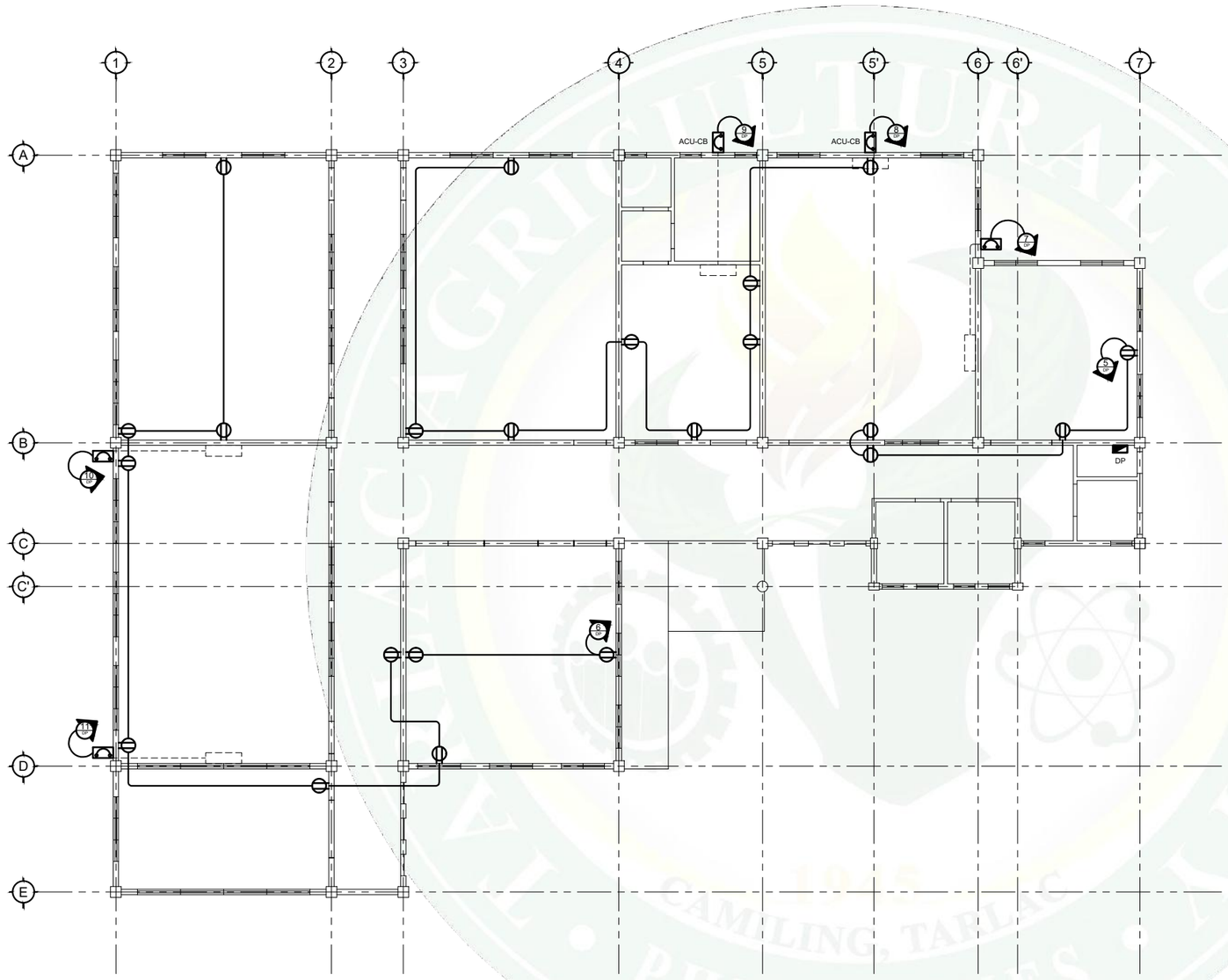
REMARKS:

SHEET NO :
E-01
14
16



POWER AND AUXILIARY LAYOUT

SCALE 1:150 MTS

LEGEND

	40 WATTS LED PANEL LIGHT
	40 WATTS SQAURE LED PANEL LIGHT
	12 WATTS SURFACE MOUNTED DOWNLIGHT
	9 WATTS RECESSED ROUND LED PANEL LIGHT
	EMERGENCY LAMP
	16" ORBIT CEILING FAN
P	PROJECTOR OULET
S1a	ONE-GANG SWITCH
S2ab	TWO-GANG SWITCH
S2abc	THREE-GANG SWITCH
SF	CEILING FAN SWITCH
SP	PROJECTOR SWITCH
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	FLOOR MOUNTED CONVENIENCE OUTLET
	ACU CIRCUIT BREAKER
B	BOOSTER PUMP
	CIRCUIT HOMERUN
	CURRENT LINE
	SWITCH LINE
	DISTRIBUTION PANEL
SD	CONVENTIONAL SMOKE DETECTOR
F	MANUAL CALL POINT
	FIRE ALARM BELL
EOLR	END OF LINE RESISTOR
FACP	FIRE ALARM CONTROL PANEL

REPUBLIC OF THE PHILIPPINES
TARLAC AGRICULTURAL UNIVERSITY
CAMILING TARLAC

PLANNING AND DEVELOPMENT OFFICE

INFRASTRUCTURE DEVELOPMENT, LANDUSE AND ZONING UNIT

ARCHITECT:

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ENGINEER:

PRC NO: | PTR NO:

TIN NO: | DATE:

PLACE :

PROJECT TITLE :

CONSTRUCTION OF COLLEGE OF EDUCATION CHILD RESEARCH AND DEVELOPMENT LABORATORY OF EXPERIENCES

LOCATION :
TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

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REMARKS:

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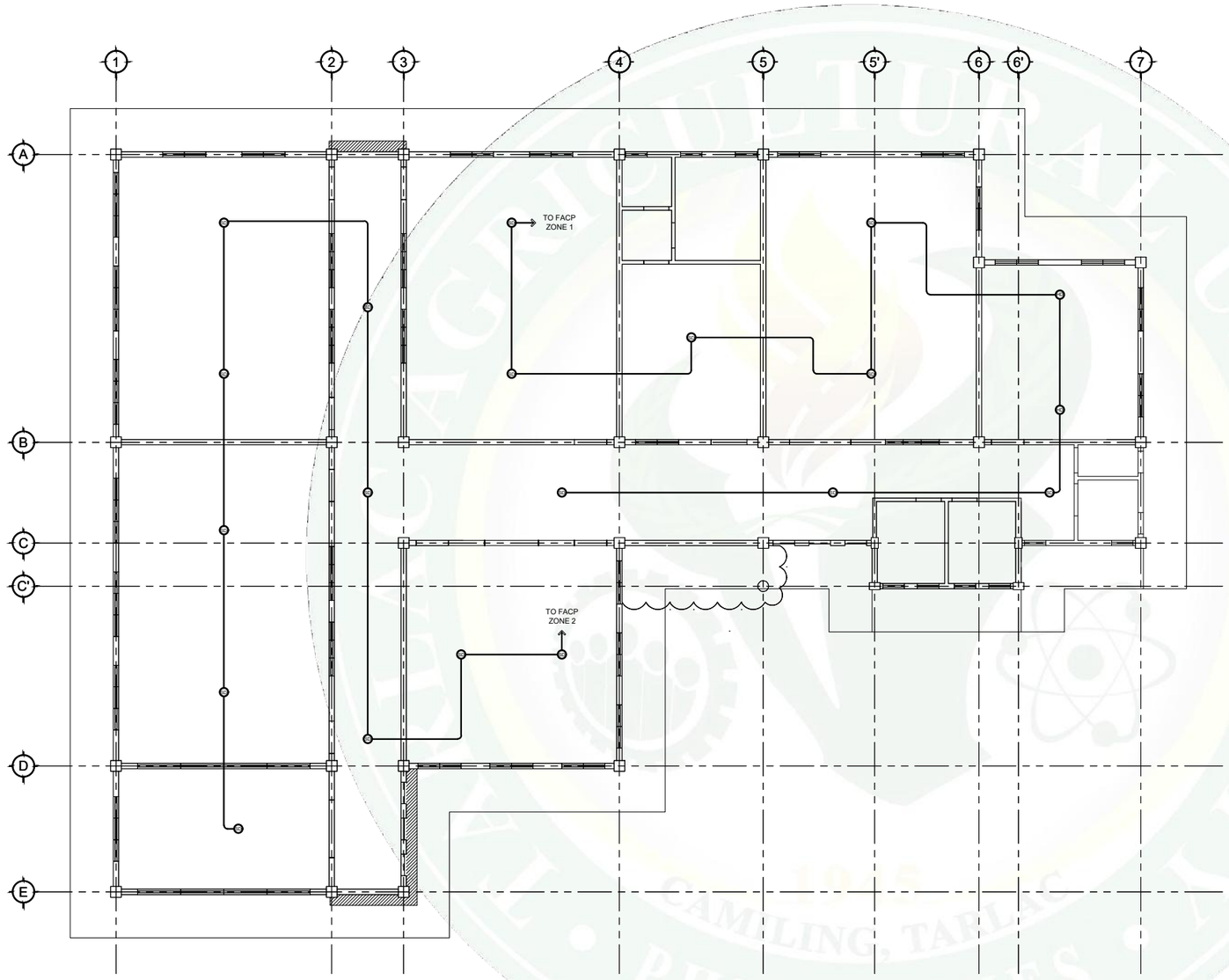
E-02

15 / 16



FIRE DETECTION AND ALARM SYSTEM LAYOUT

SCALE 1:150 MTS

LEGEND

	40 WATTS LED PANEL LIGHT
	40 WATTS SQAURE LED PANEL LIGHT
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ENGINEER:

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PLACE :

PROJECT TITLE :

LOCATION :
TARLAC AGRICULTURAL UNIVERSITY (MALACAMPA, CAMILING, TARLAC)

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REMARKS:

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16 / 16