

## PART XII ANNEXES

### 1.0 ANNEX 1: CHECKLIST OF REQUIREMENTS – DETAILED ARCHITECTURE DESIGNS

Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

*Reference: Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096)*

Project : **DESIGN AND CONSTRUCTION OF THE UNIVERSITY OF THE PHILIPPINES LOS BANOS  
CONTROLLED ENVIRONMENT RESEARCH FACILITY**  
Location : LOS BAÑOS, LAGUNA

SHEET NUMBER	SHEET CONTENTS	REMARKS*
	<b>ARCHITECTURAL DRAWINGS</b> (as applicable)	
A – 1 (a...n)	Perspective, Site Development Plan, Vicinity Map/Location Plan (2.00 Km. Radius), Table of Contents	
A – 2 (a...n)	Floor Plans (scale 1:100m minimum) including furniture layout when necessary	
A – 3 (a...n)	Four (4) Elevations (scale 1:100m minimum)	
A – 4 (a...n)	Two (2) Sections (scale 1:100m minimum) including spot details when necessary	
A – 5 (a...n)	Roof Plan/s showing downspouts (scale 1:100m minimum), including detail of gutter, downspout, etc.	
A – 6 (a...n)	Reflected Ceiling Plan/s (scale 1:100m minimum), including details	
A – 7 (a...n)	Details of Stairs, fire escapes/exits, accessible ramps, etc. (scale 1:50m), including details of railings, treads, risers, etc., in the form of plans, elevation/section	
A – 8 (a...n)	Details of Toilets (1:50 m) including accessible toilets in the form of plans, elevation/section	
A – 9 (a...n)	Details of specialized design features (scale 1:50 m) such as partitions, cabinets, etc. and accessible design features	
A – 10 (a...n)	Detail of typical bay section from lower ground to roof (scale 1:50 m)	
A – 11 (a...n)	Schedule of doors, gates, emergency exits, etc. (scale 1:50 m), including specifications for materials and hardware	
A – 12 (a...n)	Schedule of windows (scale 1:50 m), including specifications for materials and hardware	
A – 13 (a...n)	Schedule of finishes for interior and exterior floors, walls, ceilings	
	Architectural Technical Specifications	
	Architectural Scope of Works	
	Architectural Bill of Quantities	

Read and accepted as part of the Contract:

\_\_\_\_\_  
Bidder/Contractor

*\* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)*

Evaluated by: \_\_\_\_\_  
Architect

**2.0 ANNEX 2: CHECKLIST OF REQUIREMENTS –  
DETAILED ARCHITECTURAL INTERIOR DESIGNS**

Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

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SHEET NUMBER	SHEET CONTENTS	REMARKS*
	<b>ARCHITECTURAL INTERIOR DRAWINGS</b> (as applicable)	
AID – 1 (a...n)	Floor Plans showing layout of floor finishes (scale 1:100m minimum)	
AID – 2 (a...n)	Interior Elevations and Sections showing wall patterns, ceiling sections, etc. (scale 1:100m minimum)	
AID – 3 (a...n)	Schedule of Finishes and Details	
AID – 4(a...n)	Details of Partitions, Cabinets, Furniture, Ceiling and other Interior Design Features (scale 1:100 minimum)	
AID – 5 (a...n)	Schedule of Fixed Furniture and Details	
AID – 6 (a...n)	Paint Color Swatch Combinations	
AID – 7 (a...n)	Architectural Interior Perspective/s	
	Architectural Interior Design Technical Specifications	
	Architectural Interior Design Scope of Works	
	Architectural Interior Design Bill of Quantities	
<i>* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)</i>		
Evaluated by: _____ Architect		

Read and accepted as part of the Contract:

\_\_\_\_\_  
Bidder/Contractor

**3.0 ANNEX 3: CHECKLIST OF REQUIREMENTS –  
DETAILED LANDSCAPE ARCHITECTURE DESIGNS**

Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

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Project : **DESIGN AND CONSTRUCTION OF THE UNIVERSITY OF THE PHILIPPINES LOS BANOS  
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Location : LOS BAÑOS, LAGUNA

SHEET NUMBER	SHEET CONTENTS	REMARKS*
	<b>LANDSCAPE ARCHITECTURE DRAWINGS</b> (as applicable)	
LA – 1 (a...n)	Site Development Staking Plan and Details	
LA – 2 (a...n)	Exterior Lighting Plan and Details	
LA – 3 (a...n)	Exterior Building Lighting and Details	
LA – 4 (a...n)	Schedule of Landscape Exterior Finishes and Details	
LA – 5 (a...n)	Other Spot details	
LA – 6 (a...n)	Landscape Architectural Perspective/s	
	Landscape Architecture Design Technical Specifications	
	Landscape Architecture Design Scope of Works	
	Landscape Architecture Design Bill of Quantities	
<p>* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)</p> <p>Evaluated by: _____ Landscape Architect</p>		

Read and accepted as part of the Contract:

\_\_\_\_\_  
Bidder/Contractor

#### **4.0 ANNEX 4: CHECKLIST OF REQUIREMENTS – STRUCTURAL DESIGNS**

Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

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Project : **DESIGN AND CONSTRUCTION OF THE UNIVERSITY OF THE PHILIPPINES LOS BANOS CONTROLLED ENVIRONMENT RESEARCH FACILITY**  
Location : LOS BAÑOS, LAGUNA

<b>SHEET NUMBER</b>	<b>SHEET CONTENTS</b>	<b>REMARKS*</b>
	<b>STRUCTURAL DRAWINGS</b> (as applicable)	
S – 1 (a...n)	General Notes and Construction Standards	
S – 2 (a...n)	Site Development Plan	
S – 3 (a...n)	Foundation Plan/s (scale 1:100m minimum)	
S – 4 (a...n)	Floor Framing Plan/s (scale 1:100m minimum)	
S – 5 (a...n)	Roof Framing Plan (scale 1:100m minimum)	
S – 6 (a...n)	Schedule and Detail of Footings, Columns and Shear Walls	
S – 7 (a...n)	Schedule and Detail of FTB's, Girders, Beams and Floor Slabs	
S – 8 (a...n)	Detail of Trusses	
S – 9 (a...n)	Details of Stairs, Ramps, Fire Exits	
S – 10 (a...n)	Other Spot details	
	Structural Analysis and Design	
	Boring and Land Test Results	
	Seismic Analysis	
	Structural Technical Specifications	
	Structural Scope of Works	
	Structural Bill of Quantities	
<p>* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)</p> <p>Evaluated by: _____ Civil Engineer</p>		

Read and accepted as part of the Contract:

\_\_\_\_\_  
Bidder/Contractor

## 5.0 ANNEX 5: CHECKLIST OF REQUIREMENTS – SANITARY/PLUMBING DESIGNS

Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

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Location : LOS BAÑOS, LAGUNA

SHEET NUMBER	SHEET CONTENTS	REMARKS*
	<b>PLUMBING/SANITARY DRAWINGS</b> (as applicable)	
P – 1 (a...n)	General Notes and Legends	
P – 2 (a...n)	Location and Site Plan	
P – 3 (a...n)	Storm Drainage Layout (scale 1:100m minimum) including actual length of tapping line to Main Drainage Line	
P – 4 (a...n)	Water Line Layout (scale 1:100m minimum) including actual length of tapping line from main source when applicable	
P – 5 (a...n)	Sewer line and Ventlinelayout (scale 1:100m minimum) including actual length of tapping line to septic tank or existing sewerline	
P – 6 (a...n)	Isometric Layout, showing Waterline, sewerline and drainage line	
P – 7 (a...n)	Detail of connections, catch basins, downspouts, etc.	
P – 8 (a...n)	Detail of Cistern: Schedule of Pumps	
P – 9 (a...n)	Detail of Septic Tank/Sewer Treatment Plant	
	Design Analysis	
	Sanitary Technical Specifications	
	Sanitary Scope of Works	
	Sanitary Bill of Quantities	
<p>* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)</p> <p>Evaluated by: _____ Sanitary Engineer</p>		

Read and accepted as part of the Contract:

\_\_\_\_\_  
Bidder/Contractor

## 6.0 ANNEX 6: CHECKLIST OF REQUIREMENTS – ELECTRICAL DESIGNS

Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

*Reference: Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096)*

Project : **DESIGN AND CONSTRUCTION OF THE UNIVERSITY OF THE PHILIPPINES LOS BANOS CONTROLLED ENVIRONMENT RESEARCH FACILITY**  
Location : LOS BAÑOS, LAGUNA

SHEET NUMBER	SHEET CONTENTS	REMARKS*
	<b>ELECTRICAL DRAWINGS</b> (as applicable)	
E – 1 (a...n)	General Notes and/or specifications	
	Legends or Symbols	
E – 2 (a...n)	Location and Site Plan	
E – 3 (a...n)	Lighting and Receptacle Outlets Layout (scale 1:100m minimum) and details including Schedule of Lighting Fixtures and Control Devices	
E – 4 (a...n)	Power Layout (scale 1:100m minimum) and details including Schedule of Panels	
E – 5 (a...n)	Fire Detection and Alarm Circuits Layout (scale 1:100m minimum) and details including Schedule of Equipment	
E – 6 (a...n)	Emergency Lighting Layout for Exits and Hallways (scale 1:100m minimum) and details including Schedule of Emergency Lighting Fixtures and Signages	
E – 7 (a...n)	Schedule and Detail of Loads	
E – 8 (a...n)	One Line Diagram	
E – 9 (a...n)	Other Detail	
	Electrical Computation	
	Design Analysis	
	Electrical Scope of Works	
	Electrical Bill of Quantities	
<p>* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)</p> <p>Evaluated by: _____ Registered/Professional Electrical Engineer</p>		

Read and accepted as part of the Contract:

\_\_\_\_\_  
Bidder/Contractor

## **7.0 ANNEX 7: CHECKLIST OF REQUIREMENTS – ELECTRICAL AUXILIARIES DESIGNS**

Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

*Reference: Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096)*

Project : **DESIGN AND CONSTRUCTION OF THE UNIVERSITY OF THE PHILIPPINES LOS BANOS CONTROLLED ENVIRONMENT RESEARCH FACILITY**  
Location : LOS BAÑOS, LAGUNA

<b>SHEET NUMBER</b>	<b>SHEET CONTENTS</b>	<b>REMARKS*</b>
	<b>ELECTRICAL AUXILIARIES DRAWINGS</b> (as applicable)	
EA – 1 (a...n)	General Notes and/or specifications	
	Legends or Symbols	
EA – 2 (a...n)	Location and Site Plan	
EA – 3 (a...n)	Telephone and Wi-Fi Systems Layout, One Line Diagram (scale 1:100m minimum) and details including Schedule of Equipment	
EA – 4 (a...n)	Intercom System Layout and Entrance Access System Layout (scale 1:100m minimum) and details including Schedule of Equipment	
EA – 5 (a...n)	Public Address and Sound Systems Layout, One Line Diagram (scale 1:100m minimum) and details including Schedule of Equipment	
EA – 6 (a...n)	Wi-Fi Layout, One Line Diagram (scale 1:100m minimum) and details including Schedule of Equipment	
EA – 7 (a...n)	Cable TV, Master Antenna TV and CCTV Layout, One Line Diagram (scale 1:100m minimum) and details including Schedule of Equipment	
EA – 8 (a...n)	Other Detail	
	Electrical Auxiliaries Scope of Works	
	Electrical Auxiliaries Bill of Quantities	
<p>* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)</p> <p>Evaluated by: _____ Registered/Professional Electrical Engineer</p>		

Read and accepted as part of the Contract:

\_\_\_\_\_  
Bidder/Contractor

## 8.0 ANNEX 8: CHECKLIST OF REQUIREMENTS – MECHANICAL DESIGNS

Checklist of Drawing Requirements in the preparation/evaluation/approval of Detailed Architectural and Engineering Plans and other Documents for Infrastructure Project Implementation

Reference: *Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096)*

Project : **DESIGN AND CONSTRUCTION OF THE UNIVERSITY OF THE PHILIPPINES LOS BANOS CONTROLLED ENVIRONMENT RESEARCH FACILITY**  
Location : LOS BAÑOS, LAGUNA

SHEET NUMBER	SHEET CONTENTS	REMARKS*
	<b>MECHANICAL DRAWINGS</b> (as applicable)	
M – 1 (a...n)	General Notes and Legends	
M – 2 (a...n)	Floor Plans/Isometric Drawings (scale 1:100m minimum) showing Fire Suppression Systems including sprinkler system (if required), wet stand pipe, dry standpipe and other installations	
M – 3 (a...n)	Floor Plan showing location of Fire Extinguishers (scale 1:100 minimum) and details including Complete Fire Hose Cabinet with firefighting equipment	
M – 4 (a...n)	Floor Plans/Isometric Drawings (scale 1:100m minimum) of Ventilation System and Details	
M – 5 (a...n)	Floor Plans/Isometric Drawings (scale 1:100m minimum) of Air-conditioning Systems and Details (A/C Equipment not included)	
M – 6 (a...n)	Details Water Tank (scale 1:50m)	
M – 7 (a...n)	Detail of Other Machinery/Equipment (scale 1:50)	
M – 8 (a...n)	Longitudinal and Transverse Section of Building (scale 1:100m) showing manner of support of machines/equipment	
	Mechanical Technical Specifications	
	Mechanical Scope of Works	
	Mechanical Bill of Quantities	
<p>* To be marked as either Complying or Non Complying/Complete or Incomplete by the evaluator or to be filled with supporting comments (use additional sheets if necessary)</p> <p>Evaluated by: _____ Mechanical Engineer</p>		

END OF PART XII

Read and accepted as part of the Contract:

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Bidder/Contractor