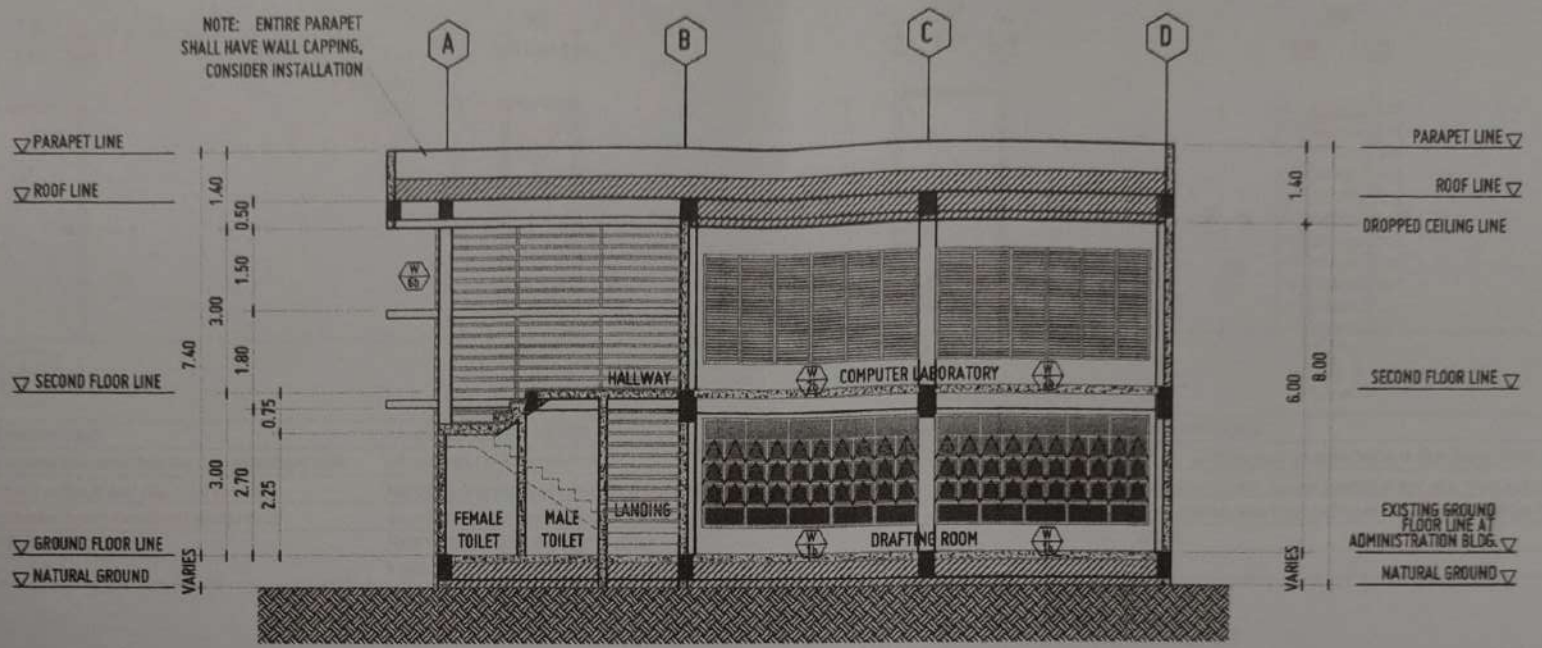
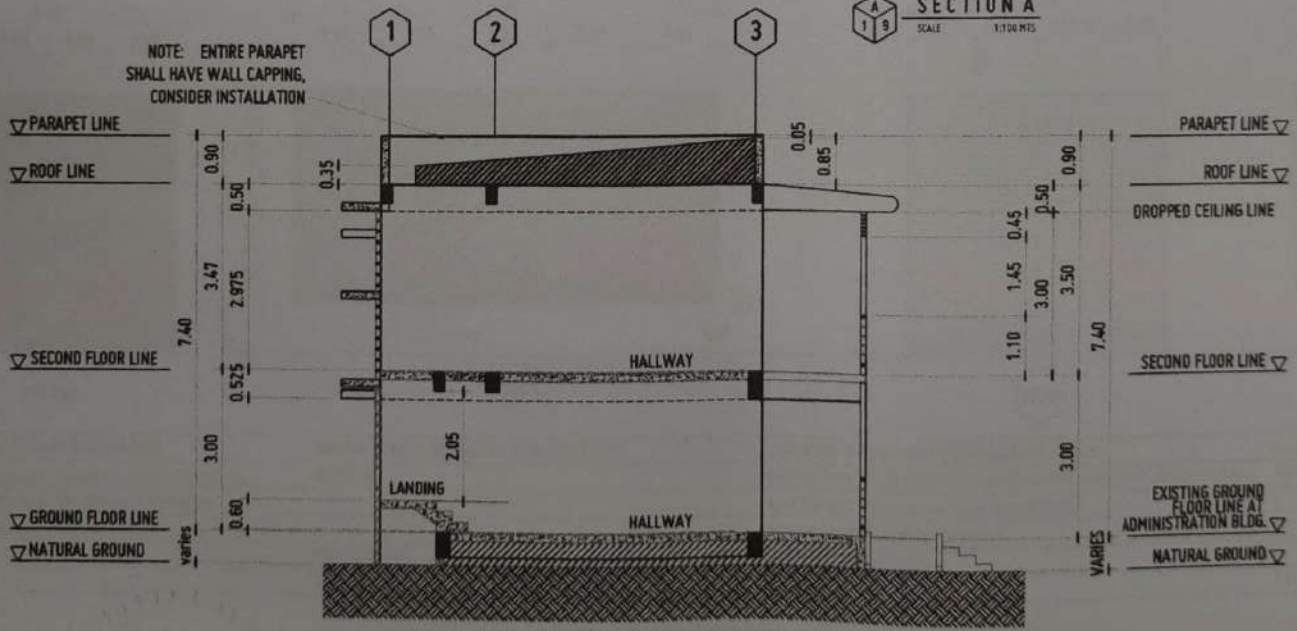
REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



SECTION A
SCALE 1:100 MTS



SECTION B
SCALE 1:100 MTS

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT	AR. FERDINAND A. DUMPA	PROJECT	PROPOSED INTEGRATED TECHNOLOGY BUILDING
	PRC NO. 0013329 / PTR NO. 0526253 A / DATE 07-26-2021	LOCATION	USTP JASAAN CAMPUS, MISAMIS ORIENTAL
	TIN 185-062-497 / PLACE EL SALVADOR CITY	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: AR. FERDINAND A. DUMPA, DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

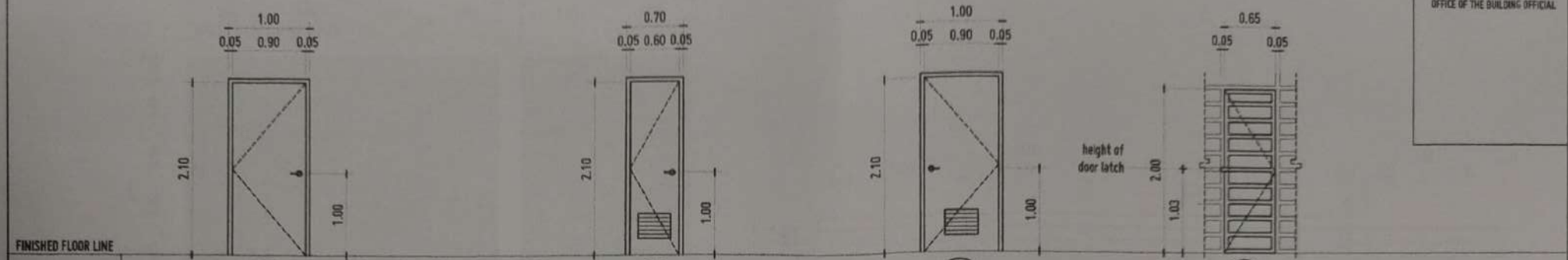
RECOMMENDING APPROVAL: ATTY. ERWIN B. [illegible], VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY: DR. AMBROSIO B. CULTURA II, PRESIDENT, USTP SYSTEM

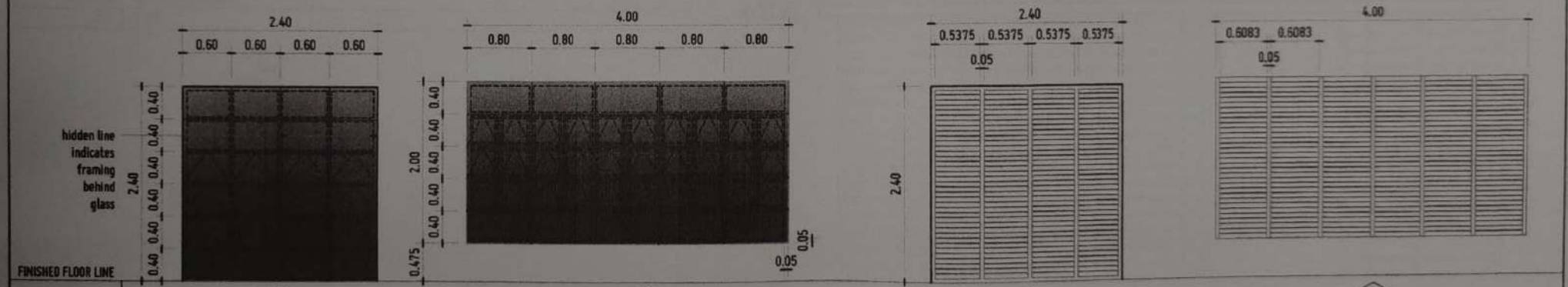
SHEET CONTENTS:	DRAWN BY:
SECTION A SECTION B	JZDP DATE DRAWN: 08.07.2021 PAT:

A9

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



DESIGNATION	D1	D2	D3	D4
TYPE	SINGLE LEAF SOLID CORE WOODEN DOORS	PVC WOODEN DOOR W/ LOUVRES	PVC DOOR W/ LOUVRES	STEEL LOUVRE DOOR
DESCRIPTION	solid core wooden doors, painted dark brown stain. Use close grained hard wood	PVC swing door in white with frames	AS BEFORE	2" x 4" aluminum anodized square tubing in clear (white) finish
	butt hinges: 2-sets on upper $\frac{1}{3}$ portion of door stile, 1-set on bottom	butt hinges: 2-sets on upper $\frac{1}{3}$ portion of door stile, 1-set on bottom	-	butt hinges: 2-sets on upper $\frac{1}{3}$ portion of door stile, 1-set on bottom
	use cylindrical, lever type handles (verify handedness), hairline finish	use cylindrical, lever type handles (verify handedness), hairline finish	-	use cylindrical, lever type handles (verify handedness), hairline finish
LOCATION	DRAFTING ROOM, COMPUTER LABORATORY, OFFICE	FEMALE TOILET, MALE TOILET, OFFICE TOILET	PWD TOILET	STAIRS
SET	5 SETS	3 SETS	1 SET	1 SET



DESIGNATION	W1a	W1b	W2a	W2b
TYPE	AWNING WINDOW WITH CLEAR ANODIZED FRAMES	AWNING WINDOW WITH CLEAR ANODIZED FRAMES	JALOUPLUS WINDOW WITH CLEAR ANODIZED FRAMES	JALOUPLUS WINDOW WITH CLEAR ANODIZED FRAMES
DESCRIPTION	glazing: $\frac{1}{4}$" tinted glass; frames: aluminium, clear (white) finish	AS BEFORE	glazing: 6mm thk. glass, machine polished; ultra-clear; jalouplus frame: black	AS BEFORE
	hinge: heavy-duty awning hinge operable up to 60 degrees	-	main frame: 2 x 2 aluminum, clear (white) finish	-
	heavy-duty locking mechanism, lever type handle	-	window assembly shall be stormproof	-
LOCATION	DRAFTING ROOM	DRAFTING ROOM	COMPUTER LABORATORY	-
SET	2 SETS	2 SETS	2 SETS	2 SETS

A 1 10 SCHEDULE OF DOORS AND WINDOWS 1/2
SCALE 1:50 M/S

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA
ARCHITECT
PRC NO. 0012379 PTR NO. 0826253 A
DATE 02-26-2021
TIN 105-092-837 PLACE EL SALVADOR CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN P. BUCIO
OIC-VICE ADMINISTRATOR, ADMINISTRATIVE SERVICES

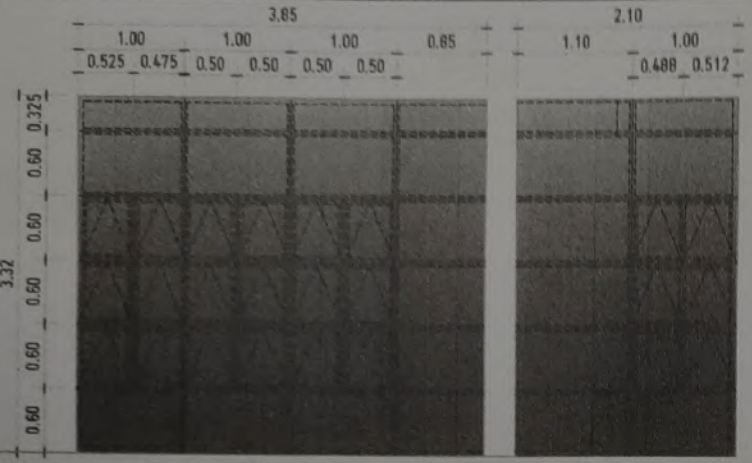
APPROVED BY:
DR. AMBROCIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS: SCHEDULE OF DOORS AND WINDOWS

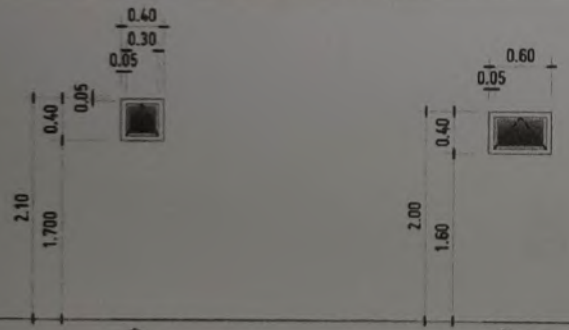
DRAWN BY: JSDP
DATE DRAWN: 06.01.2021
FMT:

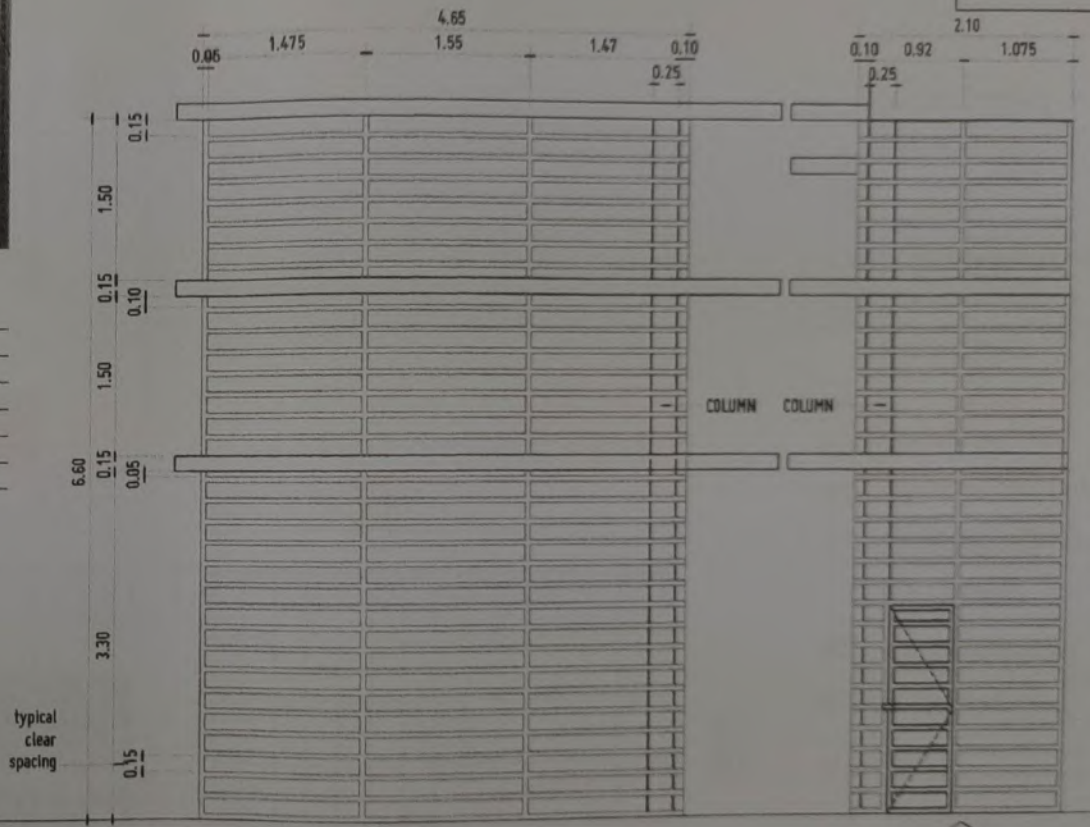
A10

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



DESIGNATION	W3a	W3b
TYPE	AWNING WINDOW WITH CLEAR ANODIZED FRAMES	
DESCRIPTION	glazing: 5/32" tinted glass; frames: aluminium, clear (white) finish	
	hinge: heavy-duty awning hinge operable up to 60 degrees	
	heavy-duty locking mechanism, lever type handle	
LOCATION	OFFICE/SERVER ROOM	
SET	1 SET	





DESIGNATION	W4	W5	W6a	W6b
TYPE	AWNING WINDOW WITH CLEAR ANODIZED FRAMES	AWNING WINDOW WITH CLEAR ANODIZED FRAMES	SUN BUFFER	SUN BUFFER
DESCRIPTION	glazing: 5/32" tinted glass; frames: aluminium, clear (white) finish	as before	2" x 4" steel square tubing in white semi-gloss finish	2" x 4" steel square
	hinge: heavy-duty awning hinge operable up to 60 degrees	-	-	tubing in white semi-gloss finish
	heavy-duty locking mechanism, lever type handle	-	-	-
LOCATION	FEMALE TOILET, MALE TOILET, OFFICE TOILET & KITCHENETTE	PWD TOILET	STAIRS	STAIRS
SET	4 SETS	1 SET	1 SET	1 SET

A11 1/11 SCHEDULE OF DOORS AND WINDOWS 2/2
SCALE 1:50 M.S.

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMPA
ARCHITECT
PRC NO. 0013326 PTR NO. 6626253 A
DATE 02-26-2021
TIN 185-002-407 PLACE EL SALVADOR CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL
AR. FERDINAND A. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT UNIT

RECOMMENDING APPROVAL
ATTY. ERWIN B. BUBID
VP FOR ADMINISTRATION & LEGAL AFFAIRS

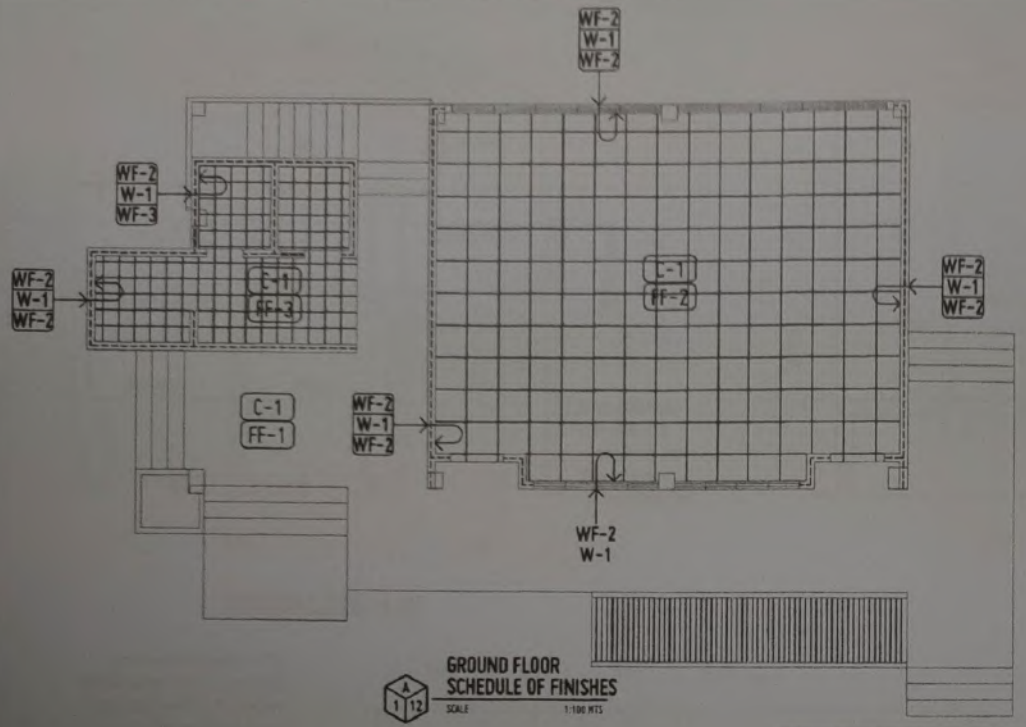
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SCHEDULE OF DOORS AND WINDOWS

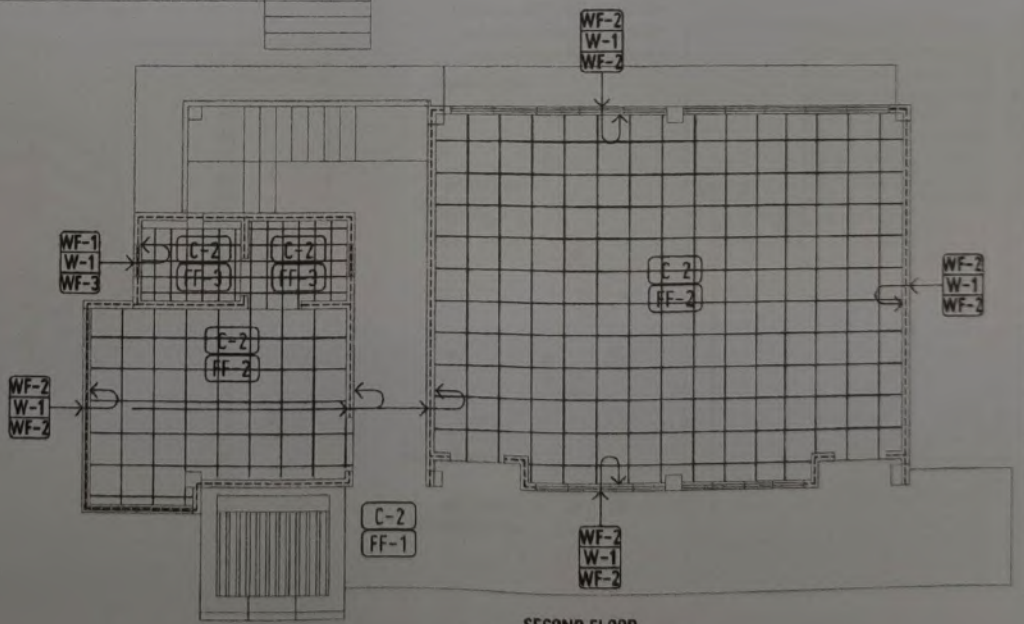
DRAWN BY: EDP
DATE DRAWN: 06.01.2021
REF.:

A11

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



GROUND FLOOR
SCHEDULE OF FINISHES
SCALE 1:100 MTS



SECOND FLOOR
SCHEDULE OF FINISHES
SCALE 1:100 MTS

DRAWING SYMBOLS

SCHEDULE OF FINISHES

CEILING FINISHES
FLOOR FINISHES

WALL FINISH OF SAME SIDE OF SYMBOL
WALL OR PARTITION
WALL FINISH OF OTHER SIDE

FLOOR FINISHES

MARK	DESCRIPTION
FF-1	SMOOTH TROWEL FINISHED CONCRETE FLOORING
FF-2	600 X 600MM CERAMIC FLOOR TILES, IN GRAY SHADE
FF-3	300 X 300MM NON-SKID CERAMIC FLOOR TILES, IN GRAY SHADE, WITH CEMENTITIOUS WATERPROOFING VERIFY DESIGN

WALL FINISHES

WF-1	PLAIN CEMENT PLASTER TROWEL FINISH, "SMOOTH" GRAY SKIMCOAT FINISH (EXTERIOR)
WF-2	PLAIN CEMENT PLASTER TROWEL FINISH, "SMOOTH" GRAY SKIMCOAT FINISH, PAINTED W/ SELF-CLEANING, ANTIBACTERIAL, SEMI-GLOSS PAINT IN PURIFYING WHITE COLOR (INTERIOR)
WF-3	LOWER- 300MM X 300MM CERAMIC WALL TILE IN GRAY SHADE UPPER- PLAIN CEMENT PLASTER TROWEL FINISH, "SMOOTH" SEMI-GLOSS LATEX PAINT FINISH

PARTITION

W-1	150MM THK. CHB INTERIOR AND EXTERIOR WALLS

CEILING FINISHES

C-1	OPEN CEILING ACCORDINGLY, PAINTED W/ SELF-CLEANING, ANTIBACTERIAL, FLAT PAINT IN PURIFYING WHITE COLOR
C-2	DROPPED CEILING, 4.5MM THK. FIBER CEMENT BOARDS IN METAL FRAMES SPACED ACCORDINGLY, PAINTED WITH FLAT WHITE

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINANDO A. DUMPA
ARCHITECT
PRC NO. 0019329 PTR NO. 8028253 A
DATE 02-26-2021
TIN 185-052-497 PLACE EL SALVADOR CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINANDO A. DUMPA
DIRECTOR INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUTO
VICE PRESIDENT FOR ADMINISTRATION AND LEGAL AFFAIRS

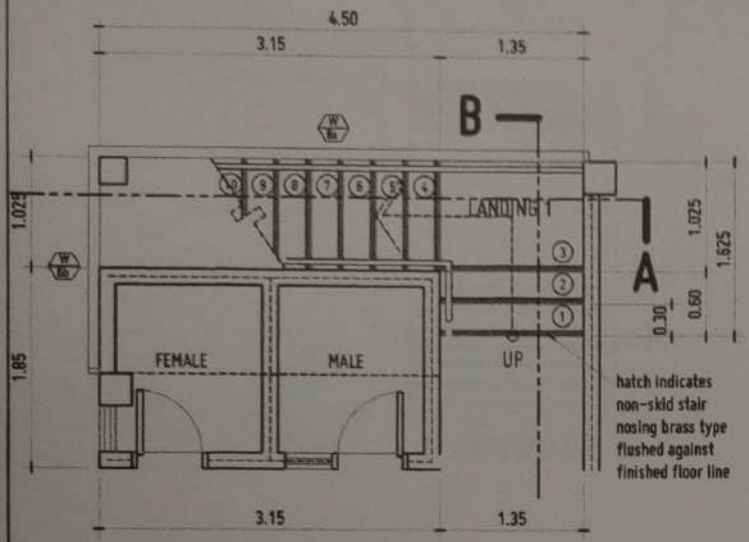
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

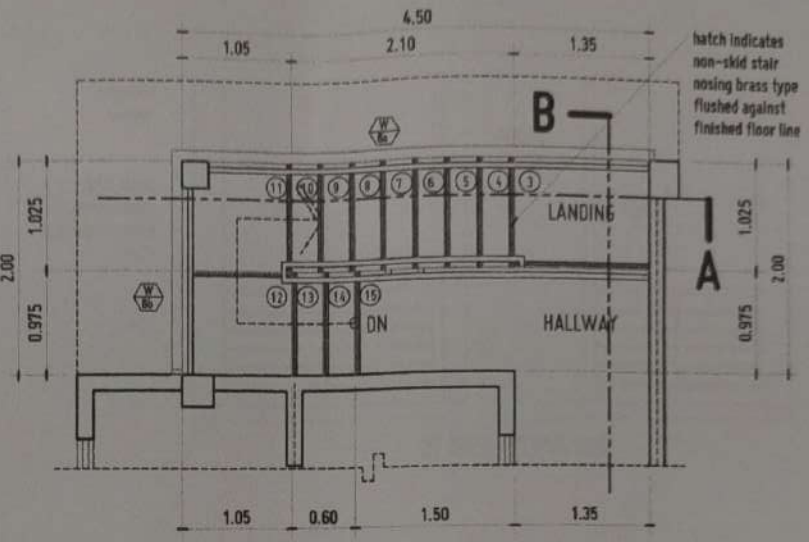
SHEET CONTENTS:
SCHEDULE OF FINISHES

DRAWN BY: JZDP
DATE DRAWN: 04.01.2021
FNT:

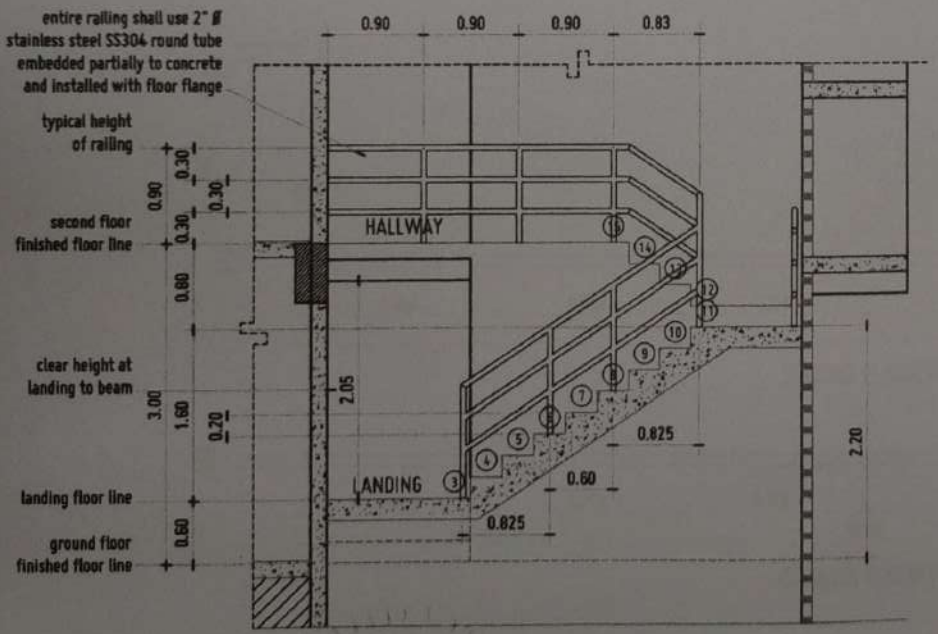
A12

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

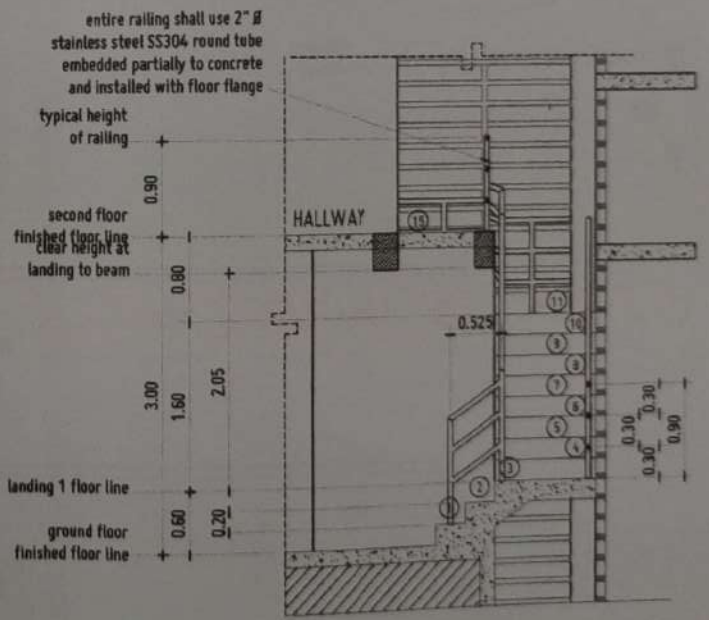




GROUND FLOOR PLAN



SECOND FLOOR PLAN



SECTION A

MAIN STAIRS DETAIL
SCALE 1:50 M/S

SECTION B

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT	AR. FERDINAND A. DUMPA	PROJECT	PROPOSED INTEGRATED TECHNOLOGY BUILDING
	PRC NO. 0013229 PTR NO. 0576753 A	LOCATION	USTP JASAAN CAMPUS, MISAMIS ORIENTAL
	TIN 105-003-837 DATE 02-26-2021 PLACE EL SALVADOR CITY	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: AR. FERDINAND A. DUMPA, DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL: ATTY. ERWIN [illegible], DIRECTOR, LEGAL AFFAIRS

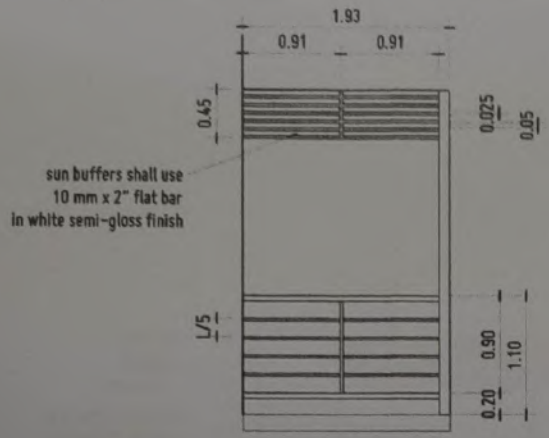
APPROVED BY: DR. AMBROSIO B. CULTURA II, OFFICER-IN-CHARGE, USTP SYSTEM

SHEET CONTENTS: MAIN STAIRS DETAIL

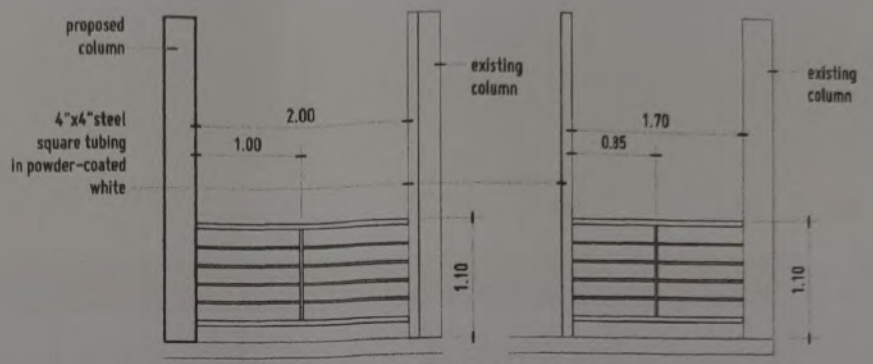
DRAWN BY: [illegible]
DATE DRAWN: 06.01.2021
REF:

A13

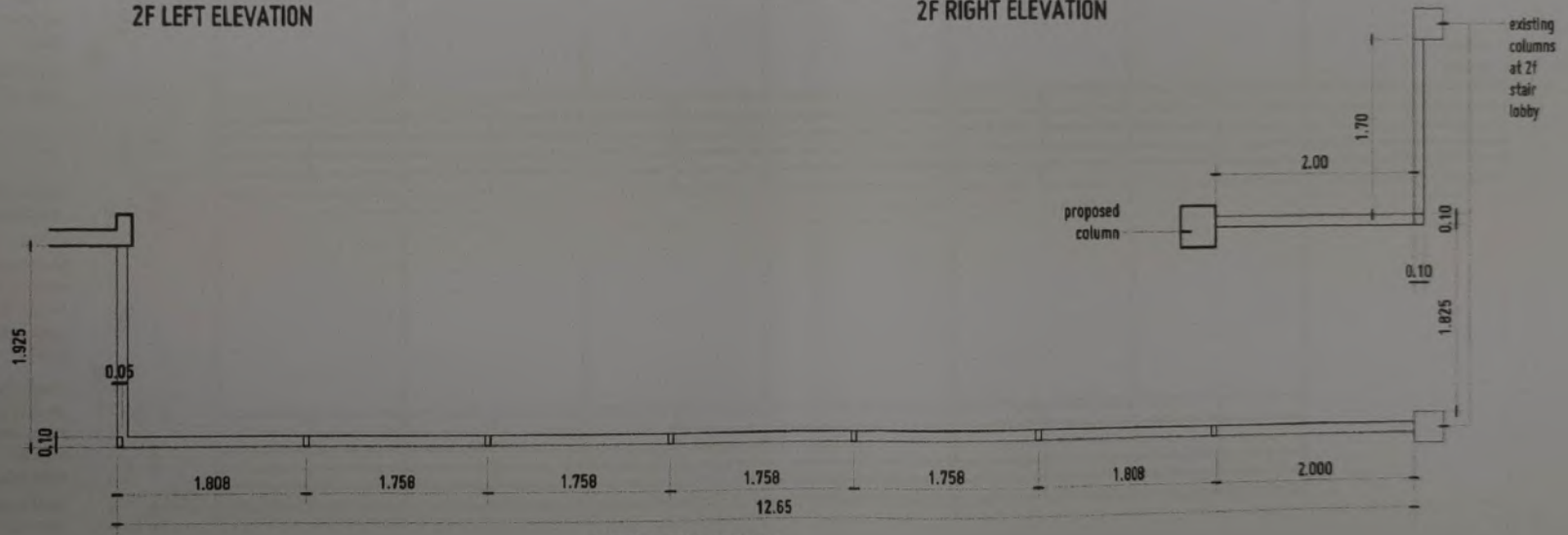
REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



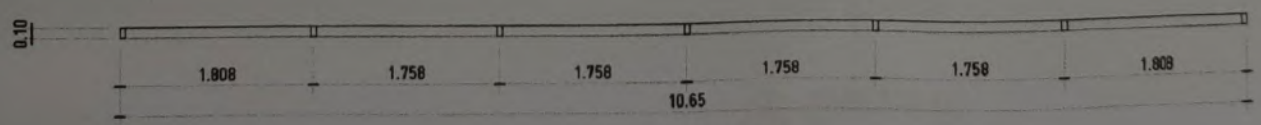
2F LEFT ELEVATION



2F RIGHT ELEVATION



SECOND FLOOR PLAN



GROUND FLOOR PLAN

A 1 14 RAILING DETAIL 1/2
SCALE 1:50 MTS

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

AR. FERDINAND A. DUMBA
ARCHITECT
PRC NO. 0019329 PTR NO. 8864253 A
DATE 02-26-2021
TIN 185-002-857 PLACE EL SALVADOR CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: AR. FERDINAND A. DUMBA
DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

RECOMMENDING APPROVAL: ATTY. ERWIN B. DAVID
VP FOR ADMINISTRATION & LEGAL AFFAIRS

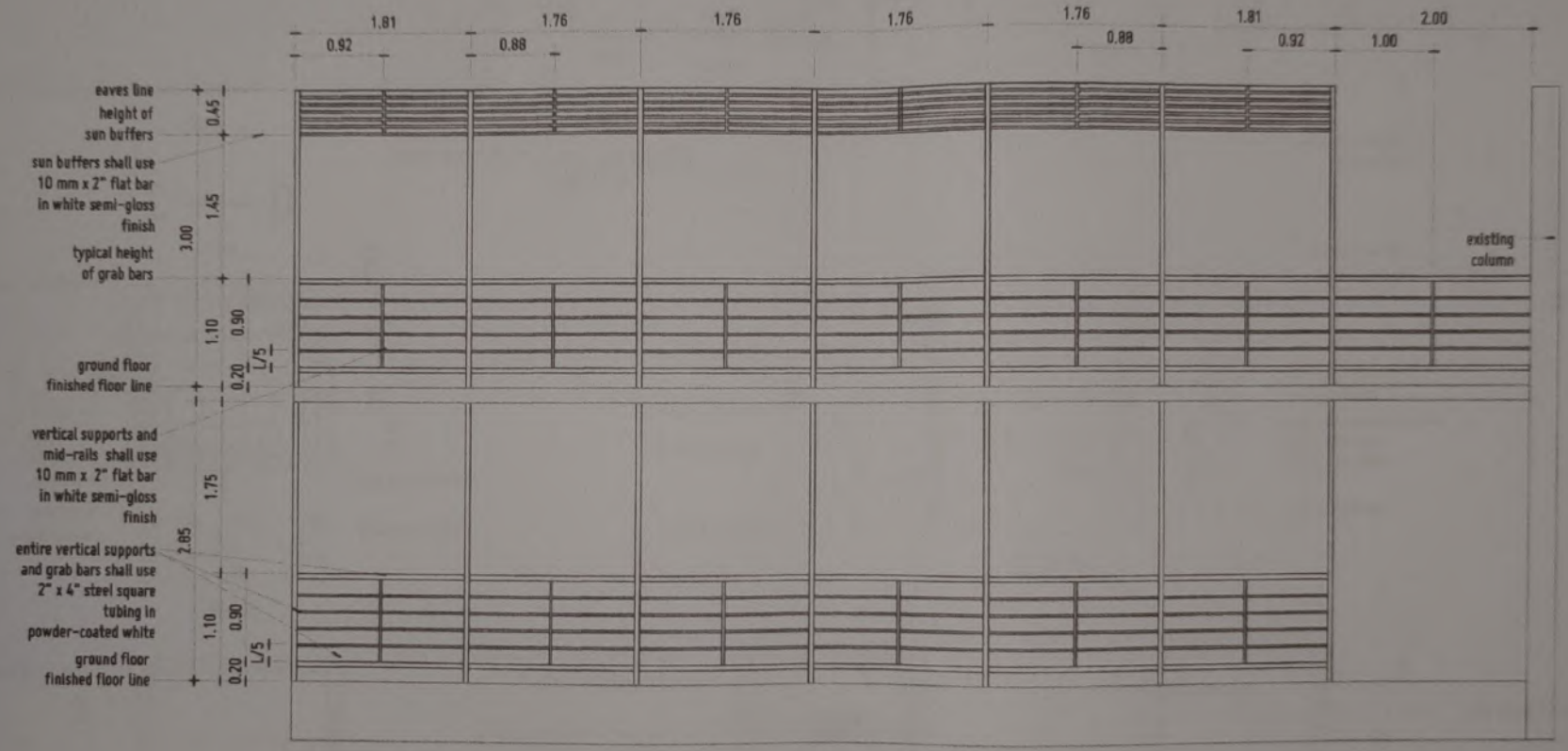
APPROVED BY: DR. AMBROCIO F. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS: RAILING DETAIL

DRAWN BY: ASDP
DATE DRAWN: 06.01.2021
NOT:

A14

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



FRONT ELEVATION

A 1 15 RAILING DETAIL 2/2
SCALE 1:50 IN A3

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT	AR. FERDINAND A. DUMPA	PROJECT	PROPOSED INTEGRATED TECHNOLOGY BUILDING
	PRC NO. 0013330 / PTR NO. 8628253 A / DATE 03-26-2021 / TIN 185-052-407 / PLACE EL SALVADOR CITY	LOCATION / OWNER	USTP JASAAN CAMPUS, MISAMIS ORIENTAL / UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: AR. FERDINAND A. DUMPA, DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE

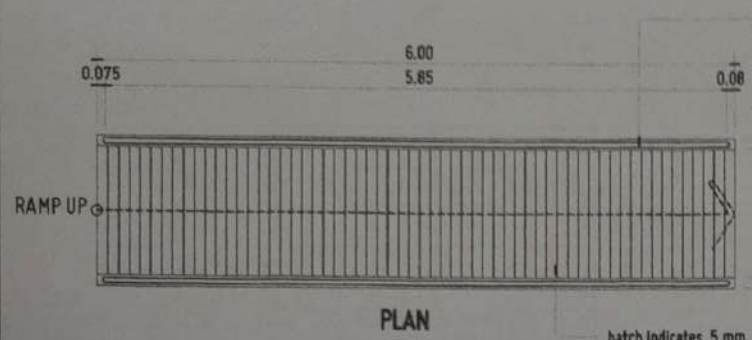
RECOMMENDING APPROVAL: ATTY. [illegible], VICE PRESIDENT FOR ADMINISTRATION & LEGAL AFFAIRS

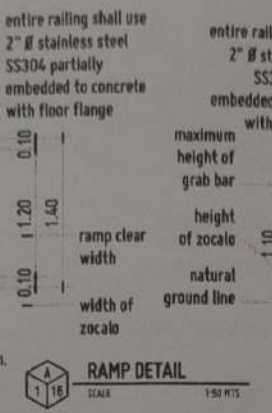
APPROVED BY: DR. AMBROSIO B. CULTURA II, PRESIDENT, USTP SYSTEM

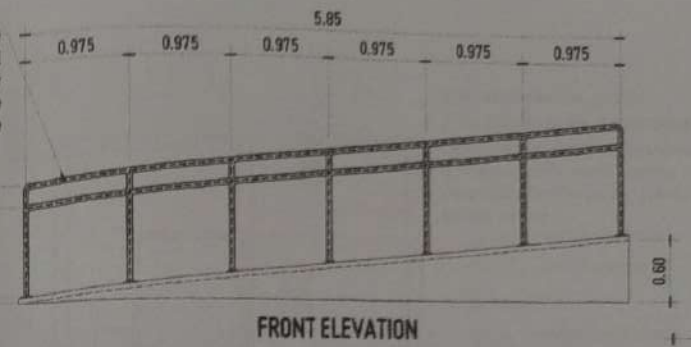
SHEET CONTENTS: RAILING DETAIL

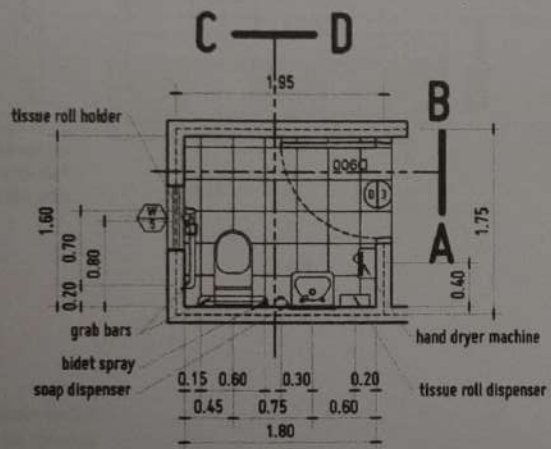
DRAWN BY: JSDP
DATE DRAWING: 06.04.2021
SHEET: A15

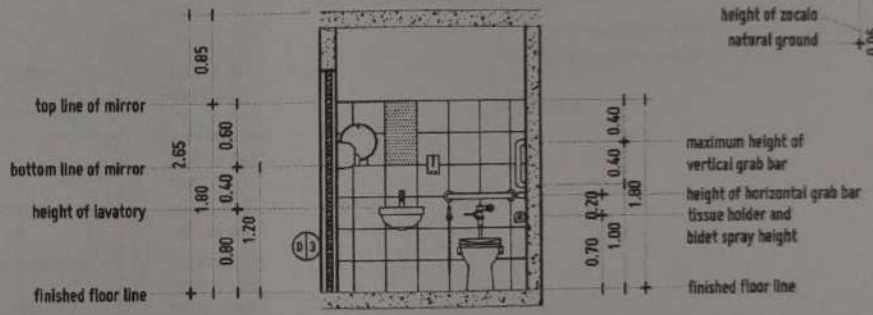
REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

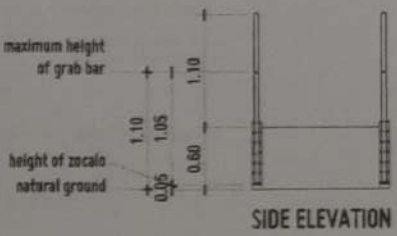


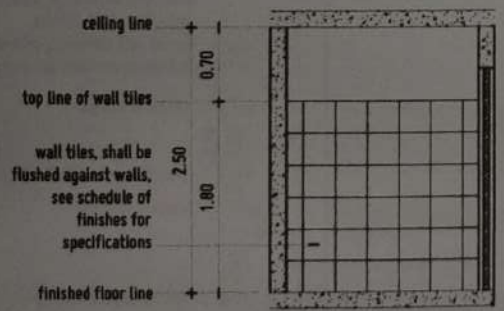


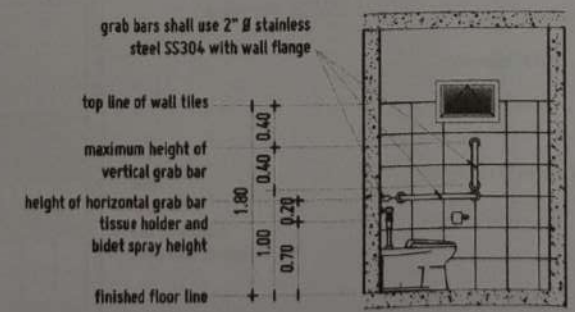


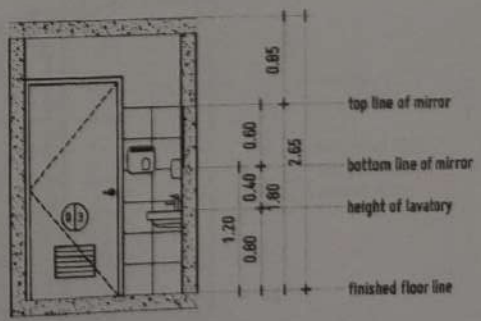








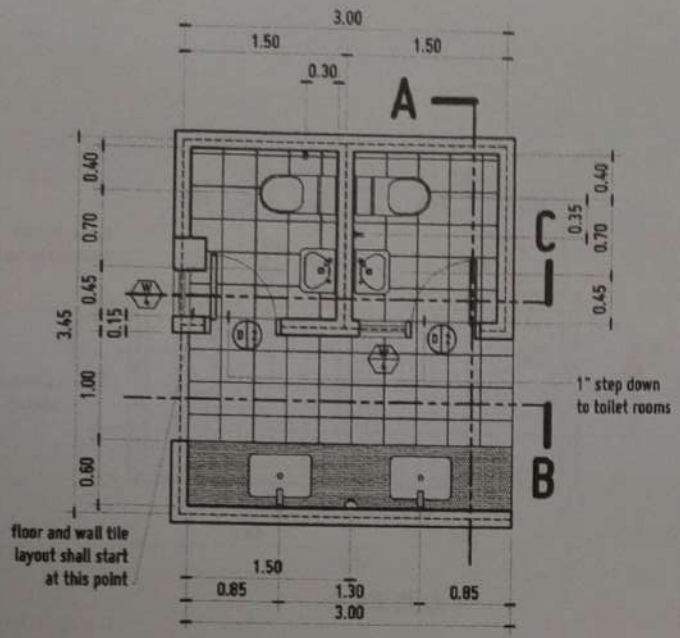




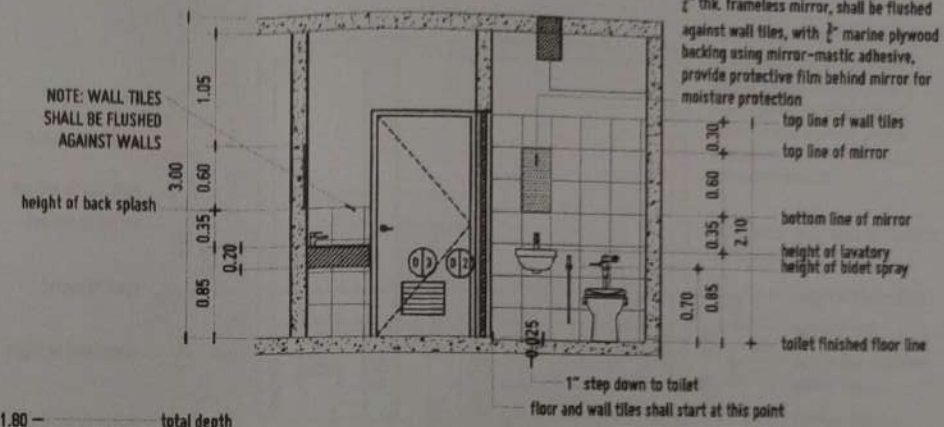
PWD TOILET DETAIL
SCALE 1:50 MTS

AR. FERDINAND A. DUMPA, ARCHITECT, PRC NO. 0013329, PTR NO. 0520253 A, DATE 02-26-2021, TIN 185-092-837, PLACE EL SALVADOR CITY	PROJECT	PROPOSED INTEGRATED TECHNOLOGY BUILDING	RECOMMENDING APPROVAL: AR. FERDINAND A. DUMPA; ATTY. ERWIN B. [illegible]; APPROVED BY: DR. AMBROSIO B. CULTURA II, PRESIDENT, CITY SYSTEM
	LOCATION	USTP JASAAN CAMPUS, MISAMIS ORIENTAL	SHEET CONTENTS: PWD TOILET DETAIL, RAMP DETAIL
	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES	DRAWN BY: JSSP, DATE DRAWN: 06.01.2021

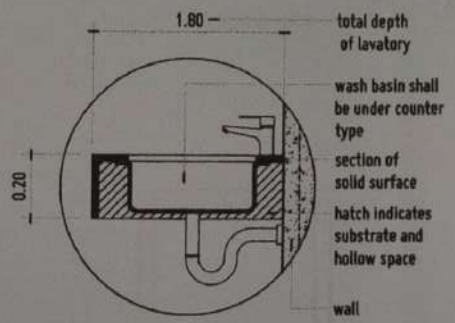
A16



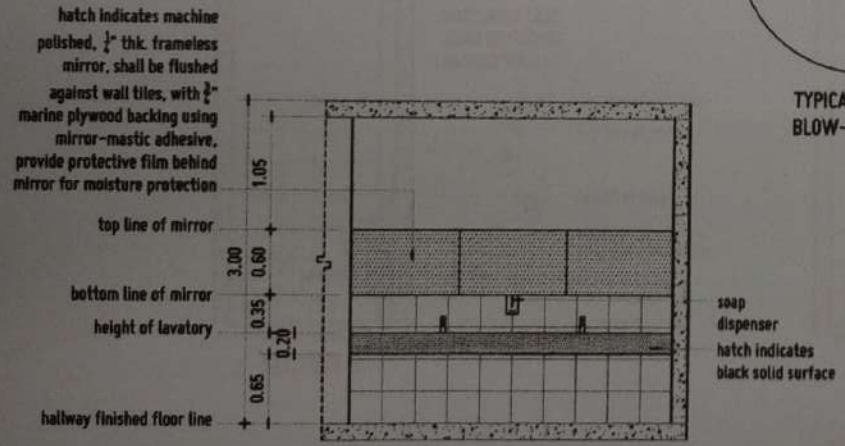
PLAN



SECTION A



TYPICAL LAVATORY BLOW-UP SECTION



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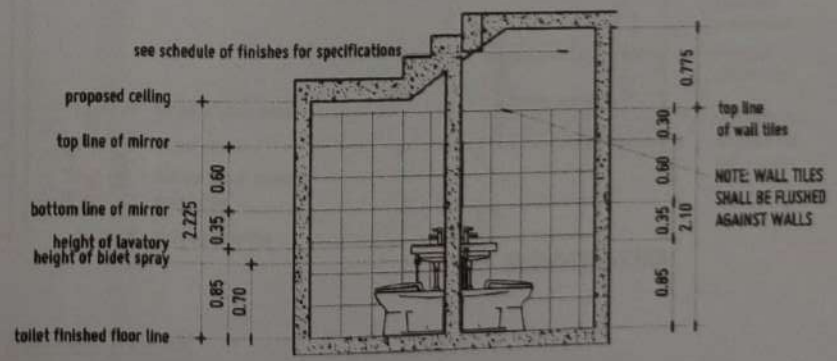


SECTION C

MALE AND FEMALE TOILET DETAIL

SCALE 1:50 MTS

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

AR. FERDINAND A. QUIMPA

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING

LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL

OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

PRC NO. 0012378 PTR NO. 0526753 A

DATE 02-26-2021

TIN 185-009-837 PLACE EL SALVADOR CITY

RECOMMENDING APPROVAL: AR. FERDINAND A. QUIMPA, DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL: ATTY. ERWIN B. DISO, VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY: DR. AMBROSIO B. CULTURA II, PRESIDENT, USTP SYSTEM

SHEET CONTENTS: MALE AND FEMALE TOILET DETAIL

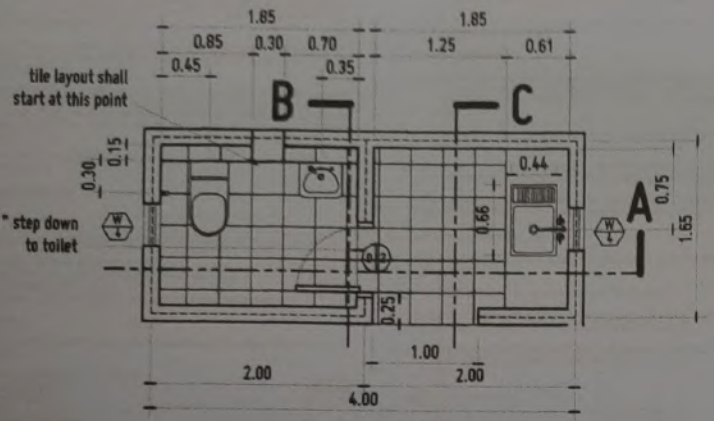
DRAWN BY: JDBP

DATE DRAWN: 06.01.2021

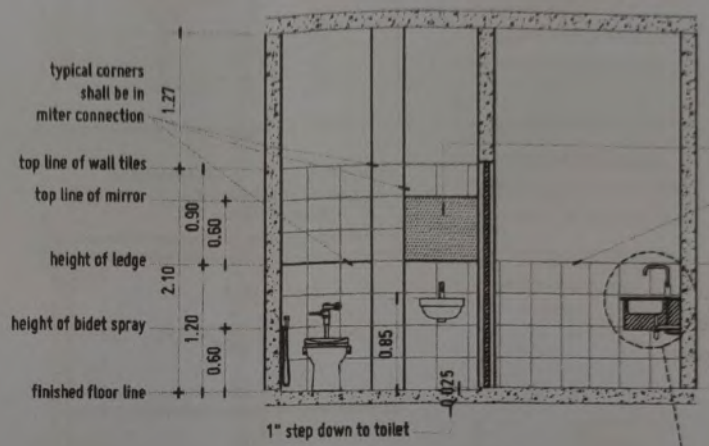
REF:

A17

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

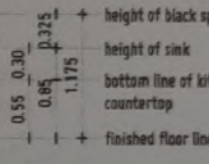


FLOOR PLAN

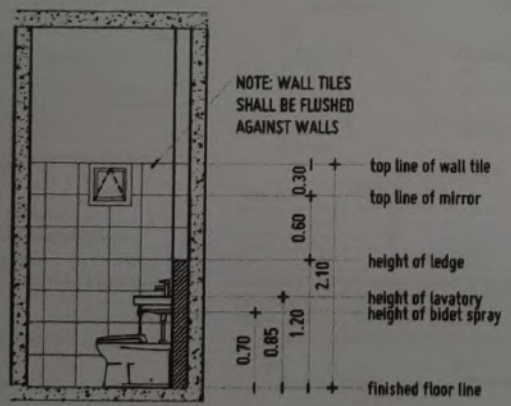


hatch indicates machine polished, ¼" thk. frameless mirror, shall be flushed against wall tiles, with ¾" marine plywood backing using mirror-mastic adhesive, provide protective film behind mirror for moisture protection

NOTE: WALL TILES SHALL BE FLUSHED AGAINST WALLS

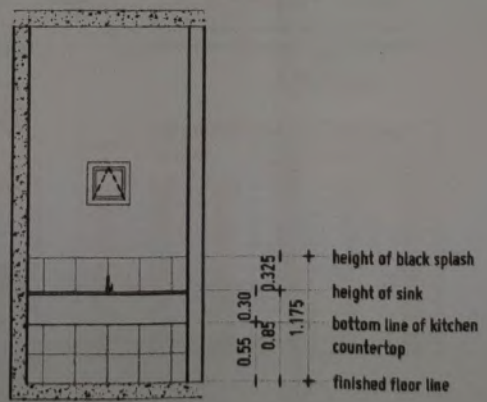


SECTION A

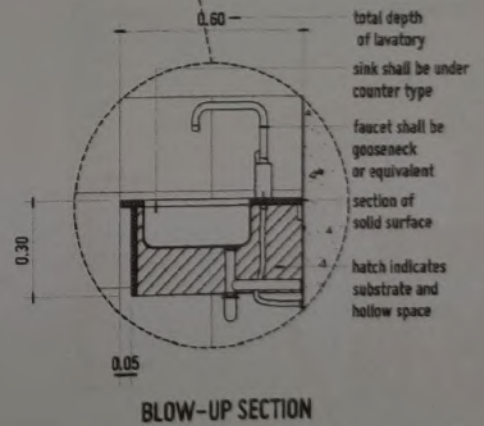


NOTE: WALL TILES SHALL BE FLUSHED AGAINST WALLS

SECTION B



SECTION C



BLOW-UP SECTION

A 1 | 18 OFFICE TOILET AND KITCHNETTE DETAIL
SCALE 1:50 MTS

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

DESIGNED: AR. FERDINAND A. DUMPA
PRC NO. 0013378 PTR NO. 8543253 A
DATE 02-26-2021
TIN 185-062-837 PLACE EL SALVADOR CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: AR. FERDINAND A. DUMPA, DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE
RECOMMENDING APPROVAL: ATTY. ERWIN B. BUTED, OIC OF THE ADMINISTRATIVE & LEGAL AFFAIRS
APPROVED BY: DR. AMBROSIO B. CULTURA II, PRESIDENT, USTP SYSTEM

SHEET CONTENTS: OFFICE TOILET AND KITCHENETTE DETAIL
DRAWN BY: JDP
DATE DRAWN: 06.04.2021
PHT:

A18

GENERAL NOTES

1. GENERAL

1.1 THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH THE DRAWINGS BY ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF EQUIP TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, OPENINGS AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORKS.

1.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK.

1.3 THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DETAIL, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1.4 THE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO THE APPROVAL OF THE ROYAL COMMISSION.

1.5 LOADING(S) APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADING USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS WITH STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND BRACED ALL TEMPORARY BRACING IS IN PLACE.

1.6 ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.

2. DESIGN CRITERIA

2.1 STANDARDS

2.1.1 THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODE OF STANDARD PRACTICE:

A. NATIONAL STRUCTURAL CODE OF THE PHILIPPINES
B. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318M)
C. INTERNATIONAL BUILDING CODE (IBC)
D. STRUCTURAL ENGINEERING INSTITUTE/AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7)

2.2 MATERIALS

2.2.1 THE FOLLOWING STRUCTURAL MATERIALS AND THEIR CORRESPONDING STRENGTH ARE ADOPTED IN THE DESIGN:

A.	CONCRETE CYLINDER STRENGTH AT 28 DAYS	f'_c = 25 MPa
B	CONCRETE BLINDING	f'_c = 20 MPa
C	REINFORCING BARS MPa	f_y = 414
D.	CONCRETE MASONRY UNITS MPa	f'_m = 14
E	STRUCTURAL STEEL PLATES AND SHAPES - ASTM A36 MPa	FY = 248
F	ANCHOR BOLTS - ASTM A307 MPa	FY = 228

2.3 DESIGN LOADS

2.3.1 DEAD LOADS: DESIGN GRAVITY DEAD LOADS USED IN THE DESIGN ARE AS FOLLOWS:

A.	CONCRETE	24 KN/M³
B.	50 MM FLOOR TOPPING + FINISH	1.7 KN/M²
C.	100 MM CONCRETE MASONRY UNITS	2.70 KN/M²
D.	150 MM CONCRETE MASONRY UNITS	3.35 KN/M²
E.	ROOF TOPPING + WATERPROOFING + INSULATION	2.50 KN/M²

2.3.2 LIVE LOADS: DESIGN GRAVITY LIVE LOADS USED IN THE DESIGN ARE AS FOLLOWS:

A.	FLOOR LIVE LOAD	1.9 KN/M²
B.	ROOF LIVE LOAD	CONCRETE ROOF 1.0 KN/M² STEEL ROOF 0.60 KN/M²
C.	CORRIDORS, STAIRS & BALCONIES	5.0 KN/M²

2.3.3 WIND LOAD

2.3.3.1 WIND LOAD ON STRUCTURE SHALL BE COMPUTED AND APPLIED IN CONFORMANCE TO THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.

2.3.3.2 DESIGN WIND PRESSURES

A. BASIC WIND VELOCITY FOR MISAMIS OR, MISAMIS OR ARE AS FOLLOWS: 150 KPH

B. SIMPLIFIED DESIGN WIND SHALL BE OBTAINED AS GIVEN IN ASCE FIGURE 6-2, 6.3.1.1

2.3.3.3 ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE (A)

A. ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE (A) SHALL BE AS GIVEN IN FIGURE 6-2 OF SEI/ASCE 7.

2.3.3.4 IMPORTANCE FACTOR (I)

A. IMPORTANCE (I) SHALL BE AS DEFINED IN SECTION 6.5.5 OF SEI/ASCE 7.

2.3.3.5 EXPOSURE CATEGORY

A. AN EXPOSURE CATEGORY SHALL BE IN ACCORDANCE WITH SECTION 6.5.6 OF SEI/ASCE 7.

2.3.4 EARTHQUAKE LOADS

2.3.4.1 COMPUTATIONS AND APPLICATION OF SEISMIC LOADS ON THE STRUCTURE SHALL BE IN ACCORDANCE WITH THE EARTHQUAKE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.

3. CONCRETE

3.1 GENERAL

3.1.1 STRUCTURAL CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

3.1.2 CONCRETE SHALL BE READY-MIXED UNLESS OTHERWISE APPROVED.

3.1.3 CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI STANDARD.

3.1.4 REINFORCEMENT FOR CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI BUILDING CODE 318/318M-25.

3.2 FOUNDATION

3.2.1 FOUNDATION SHALL BE DESIGNED BASED ON THE GEO-TECHNICAL INVESTIGATION REPORT. THE GENERAL CONTRACTOR SHALL CONDUCT HIS OWN GEO-TECHNICAL TEST TO VERIFY THE DESIGN IS SAFE AND IS ACCORDANCE TO THE GEO-TECHNICAL EVALUATION TEST RESULT REPORT.

3.2.1 SITE PREPARATION

3.2.2.1 ALL VEGETATION, DEBRIS AND SURFACE SOILS CONTAINING ORGANIC MATERIALS SHALL BE REMOVED FROM THE SITE.

3.2.2.2 THE EXPOSED SUB-GRADE SHALL BE DENSIFIED PRIOR TO PLACING ANY FILL. THE DENSIFICATION SHALL BE ACHIEVED BY COMPACTION, AND SHALL ENSURE UNTIL THE IN-SITU DENSITY, 600 MM BELOW THE EXISTING SUB-GRADE, IS AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.

3.2.2.3 IF THE COMPACTED SOILS ARE DUE TO CONSTRUCTION ACTIVITIES, THEY'RE SOILS SHALL BE RE-COMPACTED AND RE-TESTED.

3.2.3 GROUND WATER TABLE

3.2.3.1 THE CONTRACTOR'S ATTENTION IS DRAWN TO GROUNDWATER ELEVATIONS INDICATED OR DISCUSSED IN THE GEO-TECHNICAL REPORT. WELL-POINTS MAYBE NEEDED SO THAT THE GROUND WATER LEVEL IS MAINTAINED AT LEAST 500 MM BELOW THE BOTTOM OF FOOTING DURING COMPACTION AND CONSTRUCTION.

3.2.4 THE SIDES OF FOOTINGS SHALL BE FORMED, EXCAVATED SOILS TO FORM THE SIDES OF FOOTINGS ARE NOT ACCEPTABLE.

3.2.5 TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN OR DETAILS. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS NEEDED TO OBTAIN THE ASSUMED DESIGN BEARING PRESSURE.

3.2.6 NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE TEMPORARILY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING, PERMANENT CONSTRUCTION

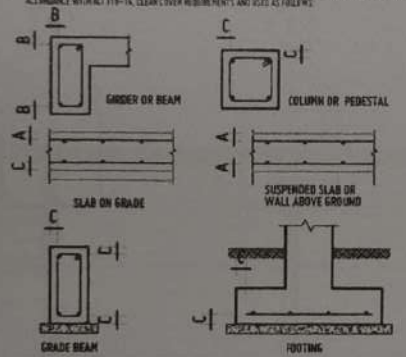
4. CONCRETE CONSTRUCTION

4.1 NO SPLICES SHALL BE PERMITTED IN FLEXURAL MEMBER REINFORCEMENT AT POINTS WHERE CRITICAL BENDING STRESSES OCCURS.

4.2 WHEN A BEAM CROSSES A GIRDER, REST BEAM BARS ON TOP OF GIRDER BARS.

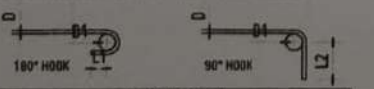
4.3 IF SLABS ARE REINFORCED BOTH WAYS, (TWO-WAY SPANNING SLABS), THE BARS ALONG THE SHORT SPAN SHALL BE AT THE LOWER LAYER FOR BOTTOM BARS, AND UPPER LAYER FOR TOP BARS.

4.4 UNLESS OTHERWISE NOTED, THE FOLLOWING CLEAR CONCRETE COVER OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318-14, CLEAR COVER REQUIREMENTS AND USES AS FOLLOWS:

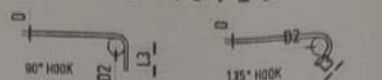


CAST-IN-PLACE CONCRETE		
CLEAR COVER	EXPOSED TO WEATHER OR EARTH	NOT EXPOSED TO WEATHER OR EARTH
A	50	75
B	50	50
C	75	50
PRECAST CONCRETE		
CLEAR COVER	EXPOSED TO EARTH	EXPOSED TO WEATHER / NOT EXPOSED TO WEATHER OR EARTH
WALL PANELS	75	30 / 20
OTHERS	75	50 / 30

4.5 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENT:

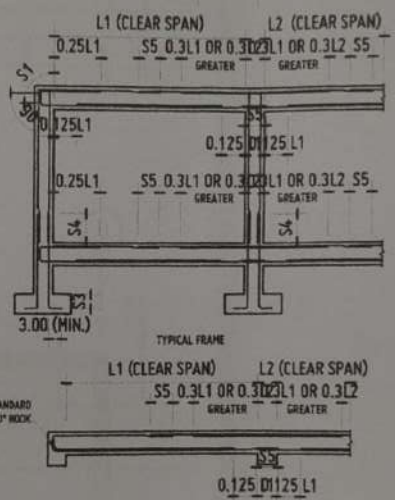


MAIN REINFORCEMENT			
BARS (MM)	MINIMUM BEND DIAMETER	EXTENSION	
	D1 (MM)	L1 (MM)	L2 (MM)
#8	50	60	95
#10	60	60	125
#12	70	60	145
#14	85	60	170
#16	95	85	190
#18	110	70	215
#20	120	80	240
#22	130	90	265
#25	150	100	300
#28	215	110	335



STIRRUPS AND TIES		
BARS (MM)	MINIMUM BEND DIAMETER	EXTENSION
	D2 (MM)	L3 (MM)
#8	30	50
#10	40	60
#12	50	70
#14	55	85
#16	65	95

4.6 UNLESS OTHERWISE INDICATED, THE FOLLOWING MINIMUM DEVELOPMENT AND LAP LENGTH SHALL BE USED:



BARS (MM)	MIN. DEVELOPMENT LENGTH			MIN. LAP LENGTH	
	IN TENSION		IN COMPRESSION	IN TENSION	IN COMPRESSION
	S1 (MM)	S2 (MM)	S3 (MM)	S4 (MM)	S5 (MM)
#8	420	325	200	420	300
#10	525	405	210	525	300
#12	630	485	250	630	355
#14	735	585	295	735	410
#16	840	645	335	840	470
#18	945	725	380	945	530
#20	1050	805	420	1060	590
#22	1440	1110	460	1440	650
#25	1640	1260	525	1640	735
#28	1833	1410	590	1833	825
#30	1965	1510	630	1965	880
#32	2095	1615	670	2095	940

NOTES:

A. THE INDICATED MINIMUM DEVELOPMENT AND LAP LENGTH IS FOR CLASS 2% CONCRETE. FOR f'_c OTHER THAN 25 MPa, THE VALUES OF S1, S2, S4 AND S4 SHALL BE MULTIPLIED BY $\sqrt{25/f'_c}$.

B. WHEN LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INDICATED VALUE OF S1 AND S2 SHALL BE MULTIPLIED BY 1.3. HOWEVER WHEN THE AVERAGE SPLITTING TENSILE STRENGTH OF LIGHTWEIGHT AGGREGATE CONCRETE (fct) IS SPECIFIED, S1 AND S2 SHALL BE PERMITTED TO BE MULTIPLIED BY $6.7\sqrt{f'_c}/f_{ct}$ BUT NOT LESS THAN 1.3.

C. FOR UNCOATED BARS, S1 AND S2 SHALL BE MULTIPLIED BY 1.3.

D. LAP AND DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITHIN A BUNDLE, SHALL BE THAT FOR INDIVIDUAL BAR INCREASED BY 20% FOR THREE BAR BUNDLE, 33% FOR FOUR BAR BUNDLE.

5. MASONRY

5.1 MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ACI 530/ASCE 5.

5.2 MASONRY EXPANSION AND CONTROL JOINT REQUIREMENTS SHALL BE AS INDICATED.

5.3 UNLESS OTHERWISE INDICATED, ALL WALLS SHALL BE LAID IN RUNNING BOND.

5.4 REINFORCING BARS SHALL BE CONTINUOUS OF THE ENTIRE SIZE AND SPACING AS INDICATED, PROVIDE BARS AT ALL WALL CORNERS, INTERSECTIONS AND OPENINGS (TYP.).

5.7 DOWEL DOWELS SHALL BE PROVIDED FROM FOUNDATIONS TO MATCH VERTICAL BARS.

5.8 LINTEL BEAM SHALL BE PROVIDED ABOVE ALL WALL OPENINGS.

6. STEEL

6.1 ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16.

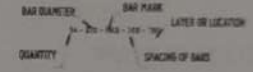
7. NOTES FOR DRAWING NOMENCLATURES

7.1 ALL DIMENSIONS ARE IN MILLIMETERS (MM) AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.

7.2 INDICATED DIMENSION SHALL PREVAIL AGAINST SCALED DIMENSION.

7.3 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS, SHALL NOTIFY THE OFFICE OF ANY DISCREPANCY.

7.4 ALL REINFORCING BARS SHALL BE NOTED AS FOLLOWS:



8. ABBREVIATIONS

ACI	-	AMERICAN CONCRETE INSTITUTE
ADDTL	-	ADDITIONAL
AP	-	ALTERNATELY PLACED
AR	-	ALTERNATELY REINFORCED
AS	-	ALTERNATELY STAGGERED
ASTM	-	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	-	AMERICAN WELDING SOCIETY
B	-	BOTTOM
BF	-	BACK FACE
BW	-	BOTH WAYS
CL	-	CENTER LINE
CLR	-	CLEAR
CMU	-	CONCRETE MASONRY UNIT
CONC	-	CONCRETE
CONT	-	CONTINUOUS
DIA	-	DIAMETER
DISCONT	-	DISCONTINUOUS
DTL	-	DETAIL
DWG	-	DRAWING
EF	-	EACH FACE
EL	-	EXISTING LEVEL
ELEV	-	ELEVATION
EQ	-	EQUAL
EW	-	EACH WAY
EXT	-	EXTERIOR
FF	-	FINISH FACE
FM	-	FINISH
GLS	-	GUIDELINE SPECIFICATION
HOR	-	HORIZONTAL
INT	-	INTERIOR
LGTH	-	LENGTH
MAX	-	MAXIMUM
NTS	-	NOT TO SCALE
OC	-	ON CENTER
REBAR	-	REINFORCING BAR
REINF	-	REINFORCED, REINFORCEMENT, OR REINFORCING
SOC	-	SOLDTON
SP	-	SPACING
STIRR	-	STIRRUPS
SYMM	-	SYMMETRICAL
T	-	TOP
THK	-	THICK
TYP	-	TYPICAL
UNO	-	UNLESS OTHERWISE NOTED
VERT	-	VERTICAL
WWM	-	WELDED WIRE MESH

9. WATER PROOFING

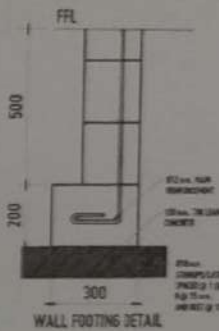
9.1 ALL STRUCTURAL CONCRETE IN CONTACT WITH THE GROUND SHALL BE PROTECTED EITHER BY TWO COATS OF BITUMINOUS DAMPPROOFING OR BY USE OF WATER PROOF ADMIXTURE AS GIVEN TABULAR ON THE DETAILED DRAWING.

POLYETHYLENE SHEET OF 200 MICRON TO BE USED AS VAPOUR BARRIER UNDER PAVED SLAB.

WATER PROOFING TO BE APPLIED ON TOP OF RAW CONCRETE AND ABOVE.

WHERE BOND WATER PROOF MEMBRANE IT SHOULD BE AS PER IS: WATER SPEC. OTHER CHEMICAL SYSTEM METAL CORROSION DRAWING SPECIFICATION ETC.

ANCHOR BOLT DETAIL



WALL FOOTING DETAIL

VICINITY MAP

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT	ERNESTO CH. QUIJOTE	PROJECT	PROPOSED INTEGRATED TECHNOLOGY BUILDING
	CIVIL/STRUCTURAL ENGINEER		
	PRC NO. 0044940 PTR NO. 0515648 A		
	DATE 01-12-2021	LOCATION	USTP JASAAN CAMPUS, MISAMIS ORIENTAL
	TIN 152-320-761 PLACE EL SALVADOR CITY	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

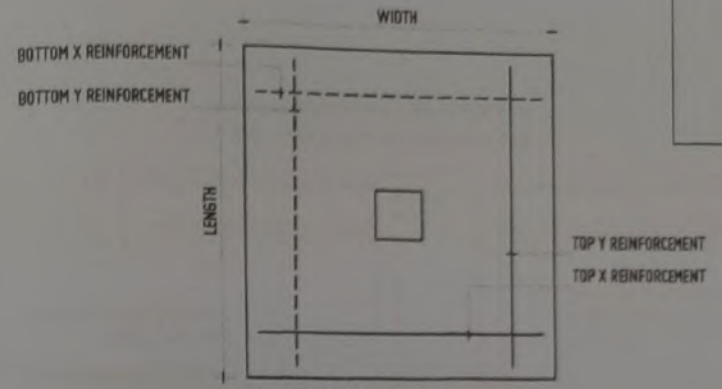
RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DRAWN BY:
AR. FERDINAND A. DUMPA DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT	ATTY. ERWIN E. BUOT VP FOR ADMINISTRATION AND FINANCE	DR. AMBROSIO B. CULTURA II PRESIDENT, USTP SYSTEM	GENERAL NOTES AND DETAILS VICINITY MAP	VEJ, JZBP DATE DRAWN: 08.01.2021 REF:

S1

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

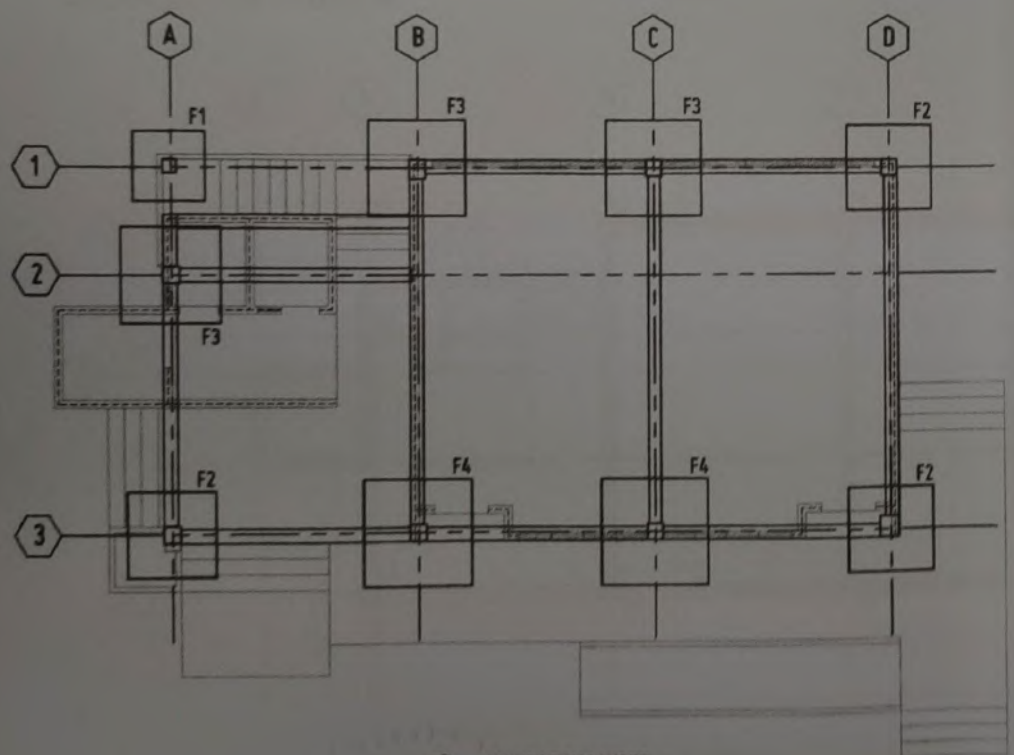
SCHEDULE OF FOUNDATION

DESIGNATION	DIMENSION		THICKNESS	BAR DIAMETER	MAIN REINFORCEMENT			
	LENGTH	WIDTH			BOT X	BOT Y	TOP X	TOP Y
F1	1300	1300	300	Ø 16 MM	6	6	5	5
F2	1600	1600	350	Ø 16 MM	7	7	6	6
F3	1800	1800	350	Ø 16 MM	8	8	6	6
F4	2000	2000	400	Ø 16 MM	9	9	7	7

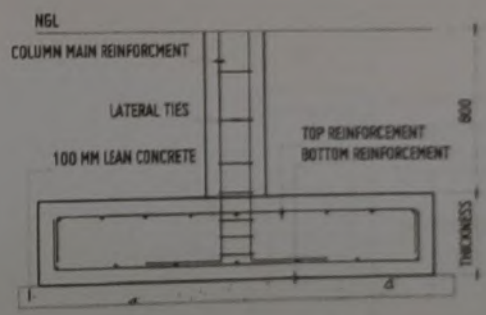


NOTE: FOOTING HAS A CONCRETE COVER OF 75 MM.

FOOTING DETAILS (TYPICAL)



S1 2 FOUNDATION LAYOUT
SCALE 1:100 MTS



FOOTING SECTION (TYPICAL)

S 2 1 FOOTING SCHEDULE AND DETAILS
SCALE

USTP

ERNESTO CH. QUIJOTE
CIVIL/STRUCTURAL ENGINEER
PRC NO. 0044968 PTR NO. 0515648 A
DATE 01-12-2023
TIN 952-320-943 PLACE EL SALVADOR CITY

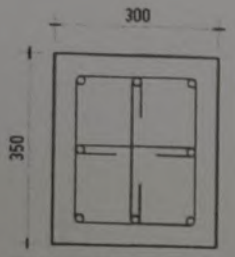
PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: BITO, LASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: AR. FERDINAND A. DUMEA
RECOMMENDING APPROVAL: ENGR. ERWIN G. BUDO
APPROVED BY: DR. AMBROSIO D. CULTURA II

SHEET CONTENTS: FOUNDATION LAYOUT, FOOTING SCHEDULE AND DETAILS
DRAWN BY: ATTY. JOSEP
DATE DRAWN: 06.01.2024
REV:

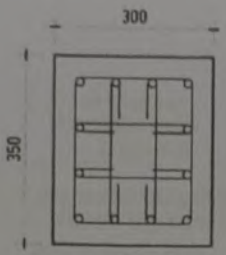
S2

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



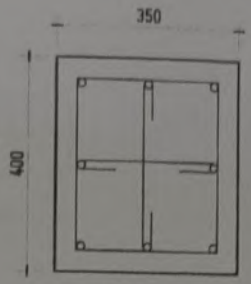
MAIN REINFORCEMENT: 8 – # 16 MM REBARS
LATERAL TIES: # 10 MM REBARS SPACED @
2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST
@ 150 MM.

C1



MAIN REINFORCEMENT: 12 – # 16 MM REBARS
LATERAL TIES: # 10 MM REBARS SPACED @
2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST
@ 150 MM.

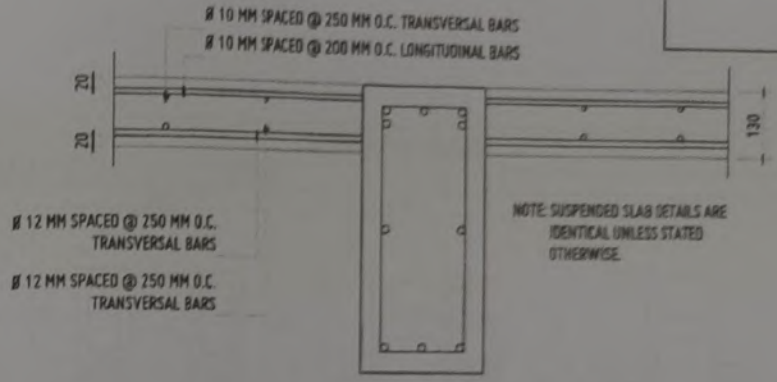
C2



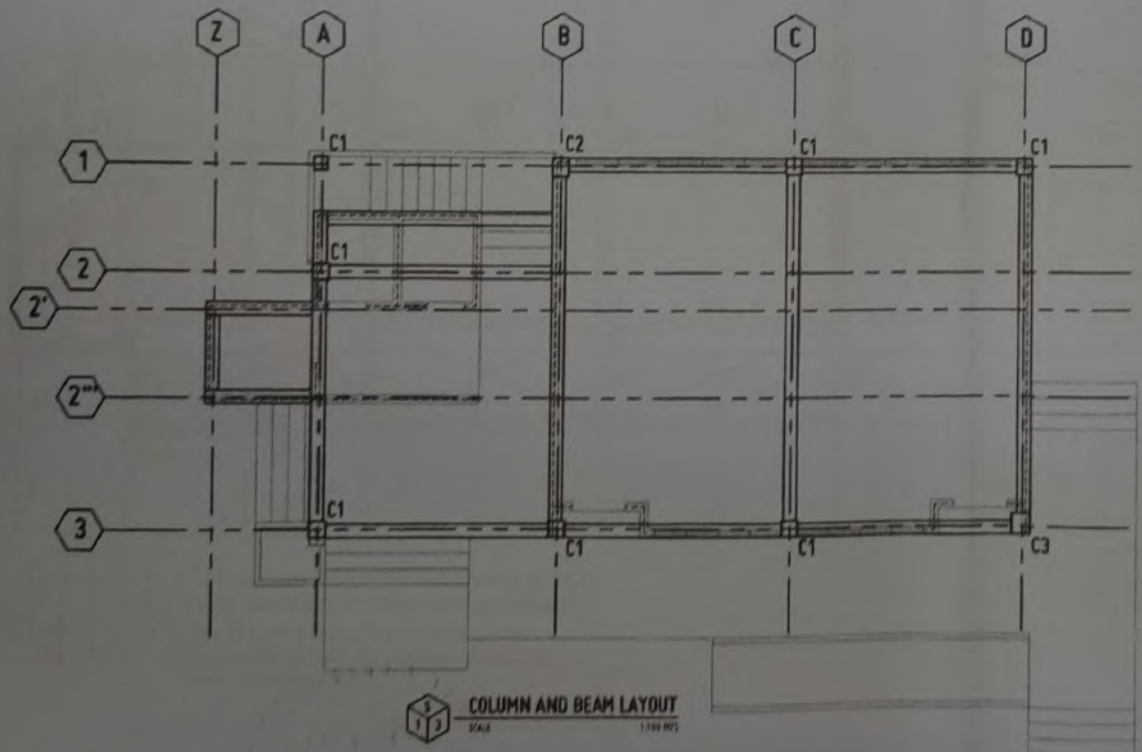
MAIN REINFORCEMENT: 8 – # 16 MM REBARS
LATERAL TIES: # 10 MM REBARS SPACED @
2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST
@ 150 MM.

C3

NOTE: COLUMNS HAS A CONCRETE COVER OF 40 MM.

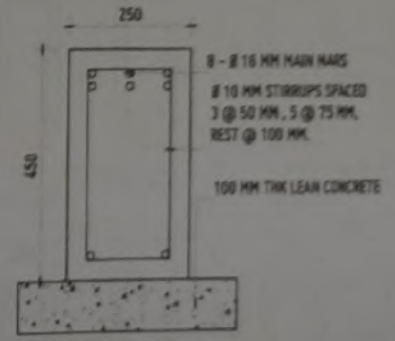


NOTE: SUSPENDED SLAB DETAILS ARE
IDENTICAL UNLESS STATED
OTHERWISE.



COLUMN AND BEAM LAYOUT
SCALE 1:100 M/S

SUSPENDED SLAB DETAIL



TIE BEAM DETAIL

ERNESTO CH. QUIJOTE		PROJECT	PROPOSED INTEGRATED TECHNOLOGY BUILDING
CIVIL/STRUCTURAL ENGINEER			
PRC NO. 0044060	PTR NO. 05156468 A		
	DATE 01-12-2021	LOCATION	USTP JASAAN CAMPUS, MISAMIS ORIENTAL
TIN 152-220-763	PLACE EL SALVADOR CITY	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: AR. FERDINAND R. DUMPA

RECOMMENDING APPROVAL: ATTY. ERWIN B. [illegible]

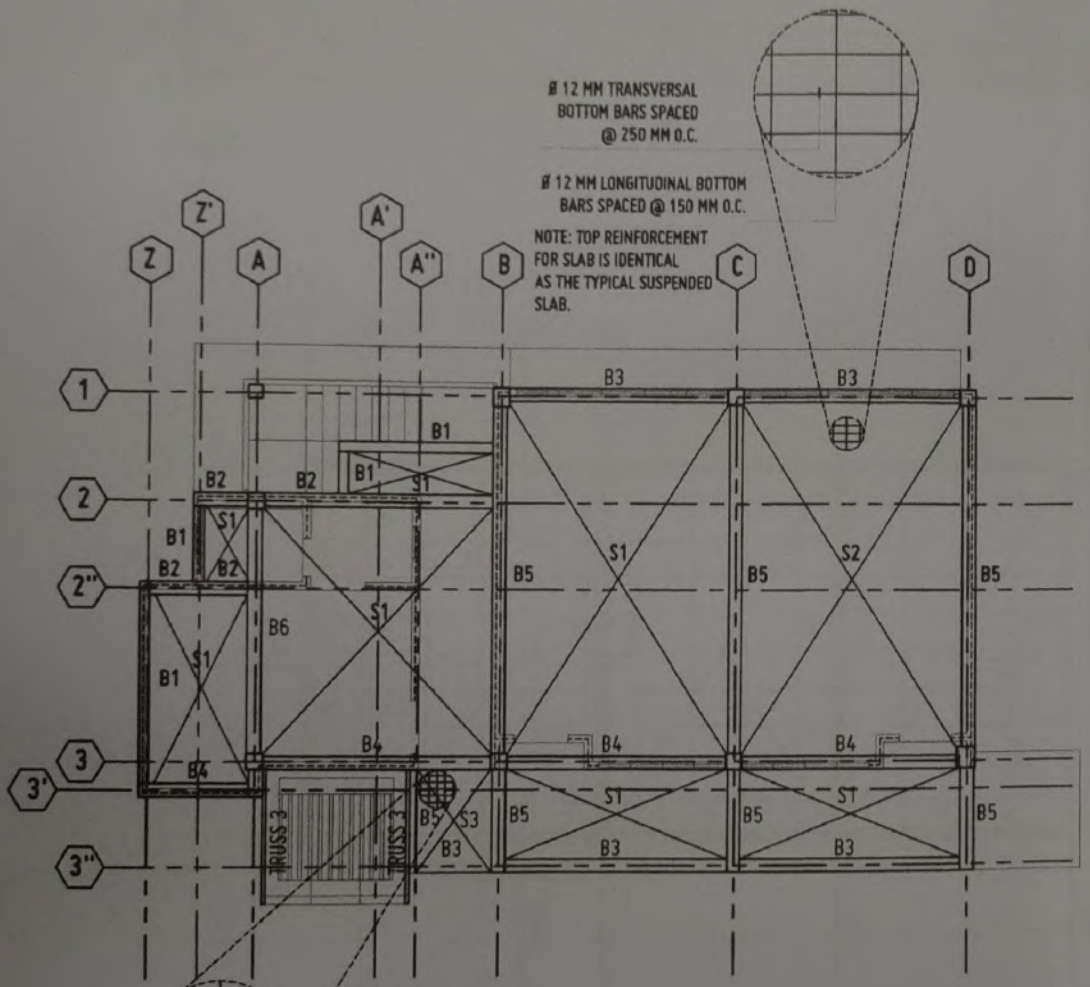
APPROVED BY: DR. AMBROCIO B. CULTURA II

SHEET CONTENTS: COLUMNS AND BEAM LAYOUT; SCHEDULE OF COLUMNS; TIE-BEAM, SUSPENDED SLAB DETAILS

DRAWN BY: [illegible]
DATE DRAWN: 10.01.2021
REF.

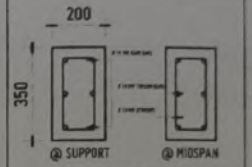
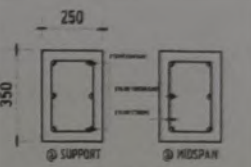
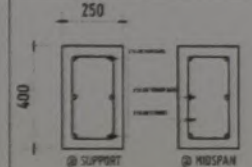
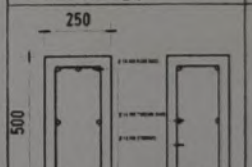
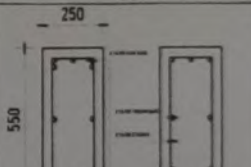
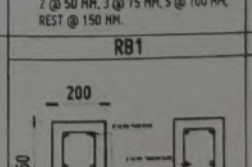
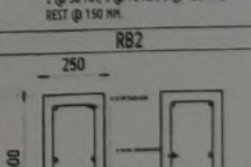
S3

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



S 1 4 SECOND FLOOR BEAM LAYOUT
SCALE 1:100 MTS

SCHEDULE OF BEAMS

LEVEL	DETAILS		
SECOND FLOOR	B1	B2	B3
			
	STIRRUPS: Ø 10 MM REBARS SPACED @ 2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST @ 150 MM.	STIRRUPS: Ø 10 MM REBARS SPACED @ 2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST @ 150 MM.	STIRRUPS: Ø 10 MM REBARS SPACED @ 2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST @ 150 MM.
	B4	B5	B6
			
	STIRRUPS: Ø 10 MM REBARS SPACED @ 2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST @ 150 MM.	STIRRUPS: Ø 10 MM REBARS SPACED @ 2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST @ 150 MM.	STIRRUPS: Ø 10 MM REBARS SPACED @ 2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST @ 150 MM.
ROOF LEVEL	RB1	RB2	RB3
			
	STIRRUPS: Ø 10 MM REBARS SPACED @ 2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST @ 150 MM.	STIRRUPS: Ø 10 MM REBARS SPACED @ 2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST @ 150 MM.	STIRRUPS: Ø 10 MM REBARS SPACED @ 2 @ 50 MM, 3 @ 75 MM, 5 @ 100 MM, REST @ 150 MM.

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

ERNESTO CH. QUIJOTE
CIVIL/STRUCTURAL ENGINEER
PRC NO. 0044040 PTR NO. 0515664 A
DATE 01-12-2021
TIN 152-320-743 PLACE EL SALVADOR CITY

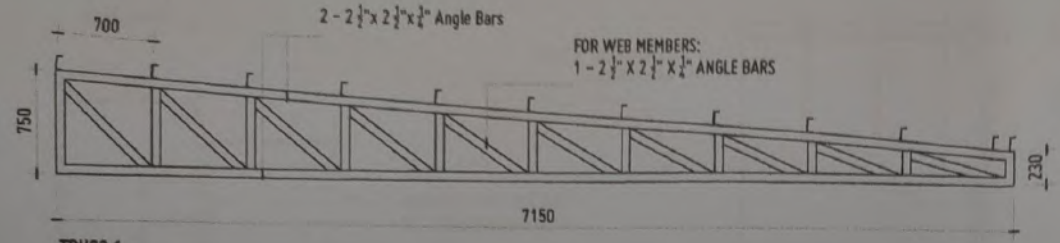
PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: AR. FERDINAND A. DUMPA, DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE
RECOMMENDING APPROVAL: ATTY. ERWIN B. BUKID, OIC-VICE CHANCELLOR FOR ADMINISTRATION AND FINANCE
APPROVED BY: DR. AMBROSIO S. CULTURA II, PRESIDENT, USTP SYSTEM

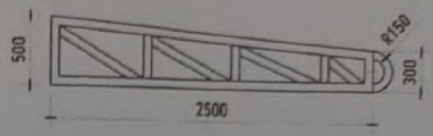
SHEET CONTENTS: SECOND FLOOR BEAM LAYOUT, SCHEDULE OF BEAMS
DRAWN BY: ITEL JOHN P.
DATE DRAWN: 06.09.2021
REV:

S4

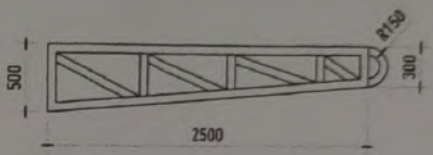
REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



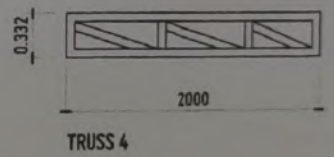
TRUSS 1



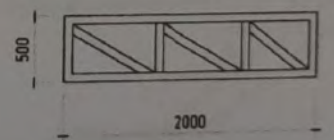
TRUSS 2



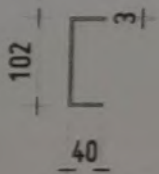
TRUSS 3



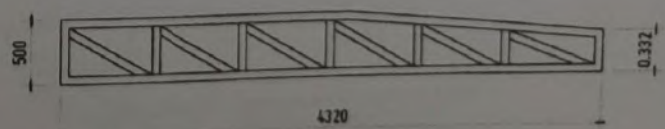
TRUSS 4



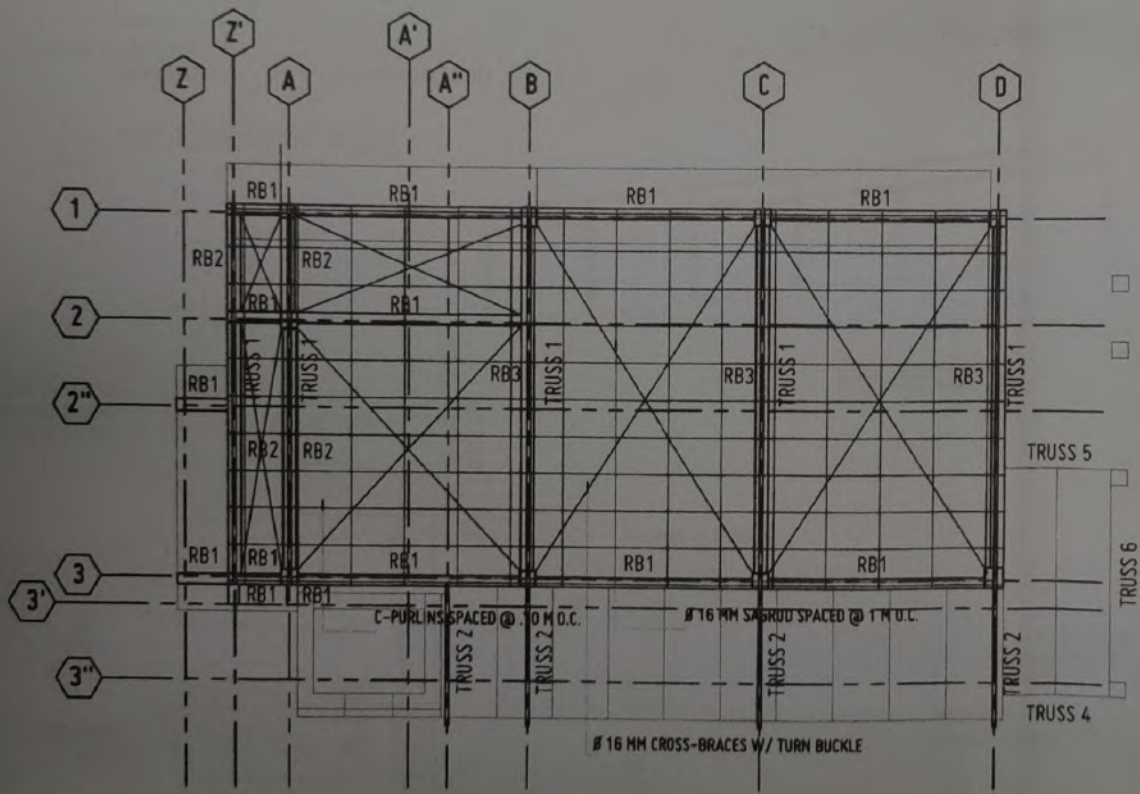
TRUSS 5



PURLIN DETAILS



TRUSS 6



S 1 5 ROOF BEAM AND TRUSS LAYOUT
SCALE 1:100 MTS

USTP

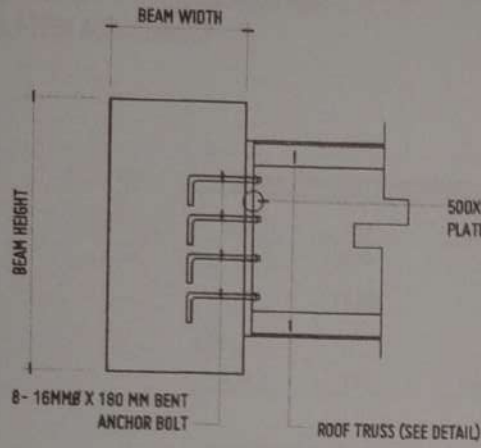
ERNESTO CH. QUIJOTE CIVIL/STRUCTURAL ENGINEER PRC NO. 0044960 PTR NO. 9515668 A DATE 01-12-2021 TIN 152-326-743 PLACE EL SALVADOR CITY	PROJECT	PROPOSED INTEGRATED TECHNOLOGY BUILDING	RECOMMENDING APPROVAL: AR. FERDINAND P. DUMPA DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE
	LOCATION	USTP JASAAN CAMPUS, MISAMIS ORIENTAL	RECOMMENDING APPROVAL: ATTY. ERWIN B. BULA VP FOR ADMINISTRATION & LEGAL AFFAIRS
	OWNER	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES	APPROVED BY: DR. AMBROSIO B. CULTURA II PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
ROOF BEAM AND TRUSS LAYOUT
TRUSS, PURLIN DETAILS

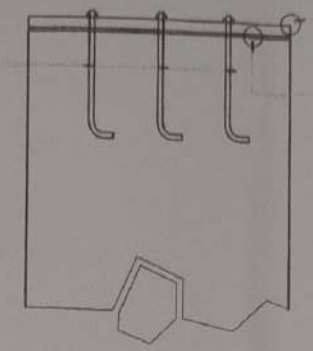
DRAWN BY:
JAL JOSEP
DATE DRAWN:
06.01.2021
REF:

S5

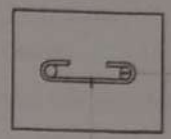
REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



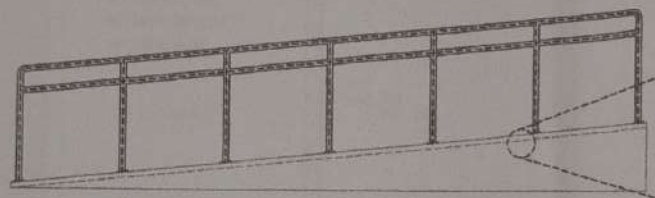
BEAM TO TRUSS CONNECTION DETAIL
SCALE NOT TO SCALE



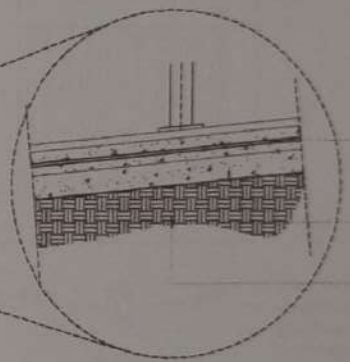
COLUMN TO TRUSS CONNECTION DETAIL
SCALE NOT TO SCALE

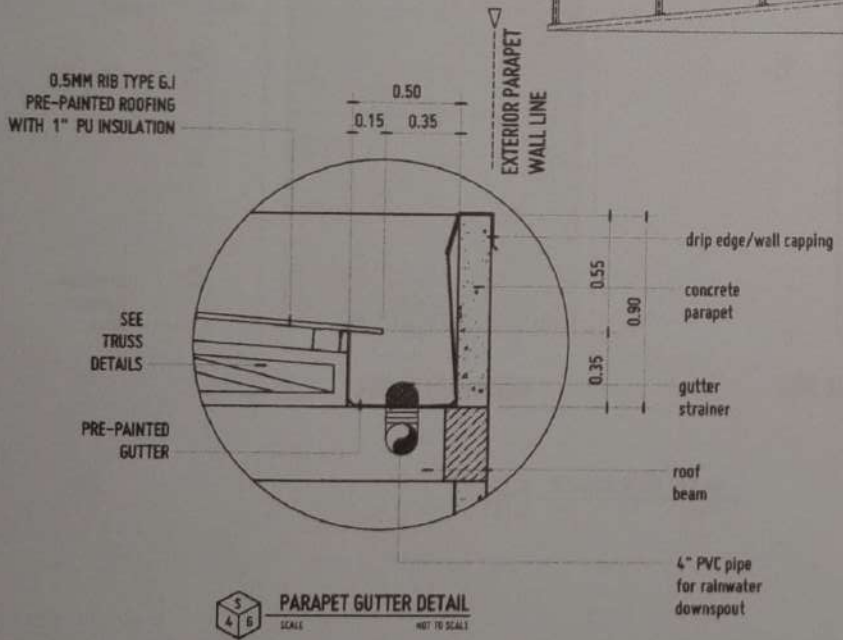


LINTEL AND STIFFENER DETAIL
SCALE

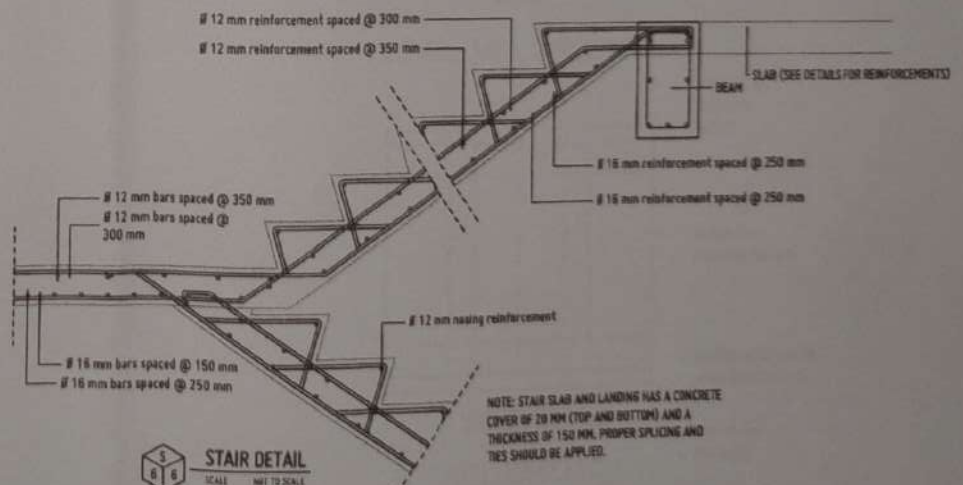


RAMP DETAIL
SCALE NOT TO SCALE





PARAPET GUTTER DETAIL
SCALE NOT TO SCALE



NOTE: STAIR SLAB AND LANDING HAS A CONCRETE COVER OF 20 MM (TOP AND BOTTOM) AND A THICKNESS OF 150 MM. PROPER SPLICING AND TIES SHOULD BE APPLIED.

STAIR DETAIL
SCALE NOT TO SCALE

UST|P

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

ERNESTO CH. QUIJOTE
CIVIL/STRUCTURAL ENGINEER
PRC NO. 0044960 PTR NO. 0011644 A
DATE 01-12-2021
TIN 152-320-743 PLACE EL SALVADOR CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. QUIRPA
DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

RECOMMENDING APPROVAL:
ATTY. ERWIN B. RETO
OFFICER-IN-CHARGE, ADMINISTRATION & LEGAL AFFAIRS

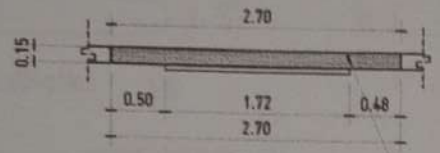
APPROVED BY:
DR. AMBROSIO C. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
BEAM TO TRUSS DETAIL
COLUMN TO TRUSS DETAIL
LINTEL BEAM AND STIFFENER DETAIL
PARAPET GUTTER DETAIL
STAIR DETAIL
RAMP DETAIL

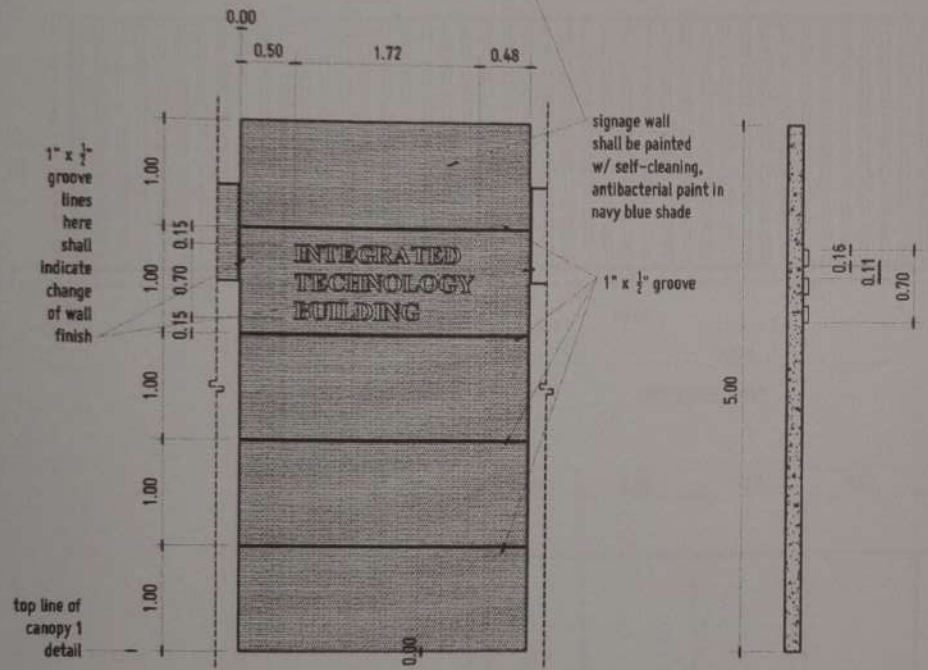
DRAWN BY: HCL, JDMP
DATE DRAWN: 06.01.2021
REF:

S6

NOTE: PROVIDE WATERPROOFING AND INSULATION ACCORDINGLY



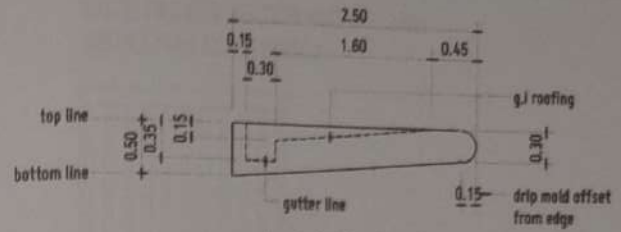
PLAN



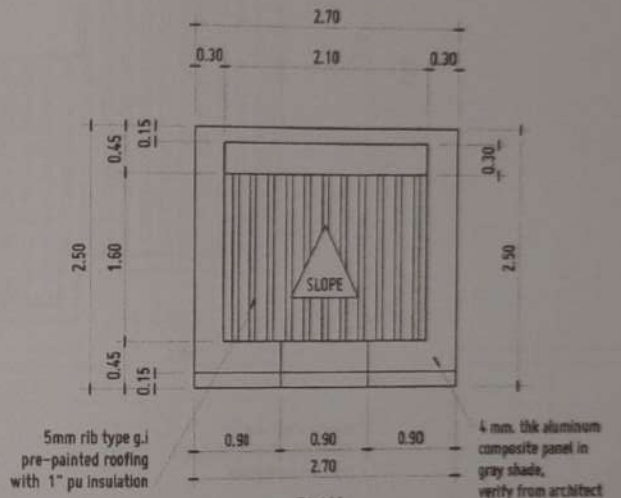
FRONT ELEVATION

SIDE ELEVATION

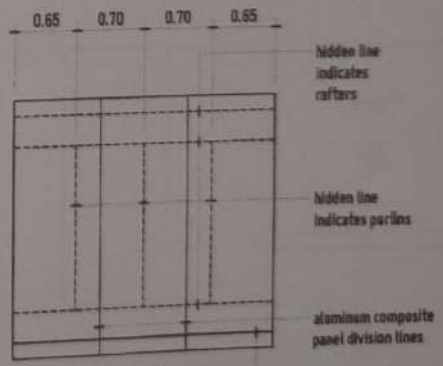
S17 SIGNAGE WALL DETAIL
SCALE 1:50 MTS



typical side elevation



PLAN



UNDERSIDE VIEW

S27 CANOPY 1 DETAIL
SCALE 1:50 MTS

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

ERNESTO CH. QUIJOTE
CIVIL/STRUCTURAL ENGINEER
PRC NO. 0044868 PTR NO. 08 95648 A
DATE 01-12-2021
TIN 152-320-743 PLACE EL SALVADOR CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: BETP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND B. LUMBA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT UNIT

RECOMMENDING APPROVAL:
ATTY. ERWIN A. SACRO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBROCIO B. CULTURA II
USTP SYSTEM

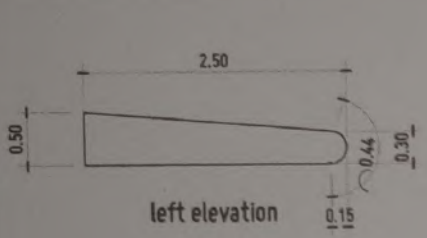
SHEET CONTENTS:
CANOPY 1 DETAIL
WALL CLADDING DETAIL

DRAWN BY: VEE JOSEP
DATE DRAWN: 06.01.2021
REV:

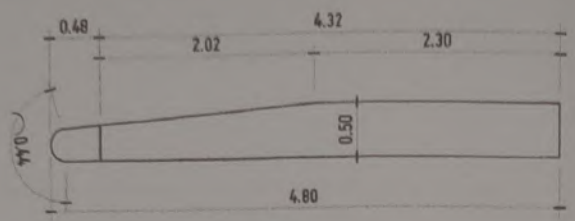
S7

NOTE: PROVIDE WATERPROOFING AND INSULATION ACCORDINGLY

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

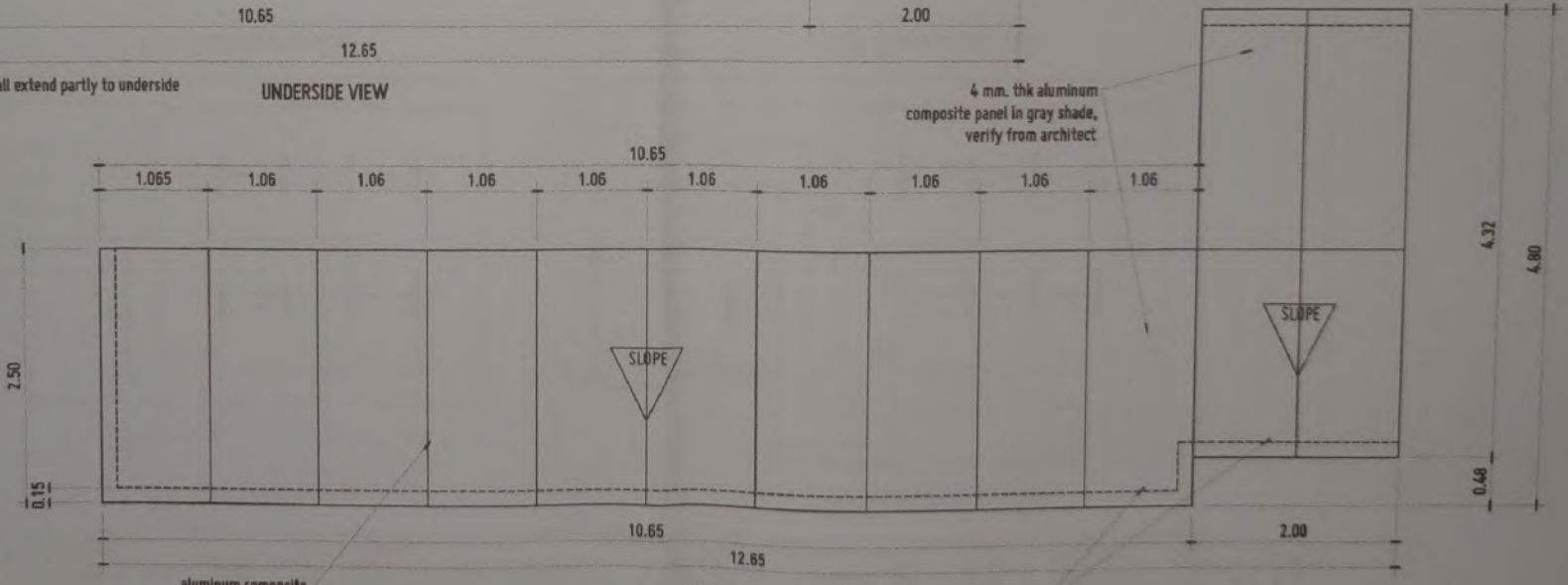


left elevation



right elevation

UNDERSIDE VIEW



TOP VIEW

S 1 6 CANOPY 2 DETAIL
SCALE 1:50 MTS

USTiP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

ERNESTO CH. QUIJOTE
CIVIL/STRUCTURAL ENGINEER
PRC NO. 0044960 PTR NO. 0515846 A
DATE 01-12-2021
TIN 152-320-743 PLACE EL SALVADOR CITY

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. DOMPA
DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN B. DUCIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBROCIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS: CANOPY 1 DETAIL

DRAWN BY: VEX, JZDP
DATE DRAWN: 06.01.2021
TWE:

S8

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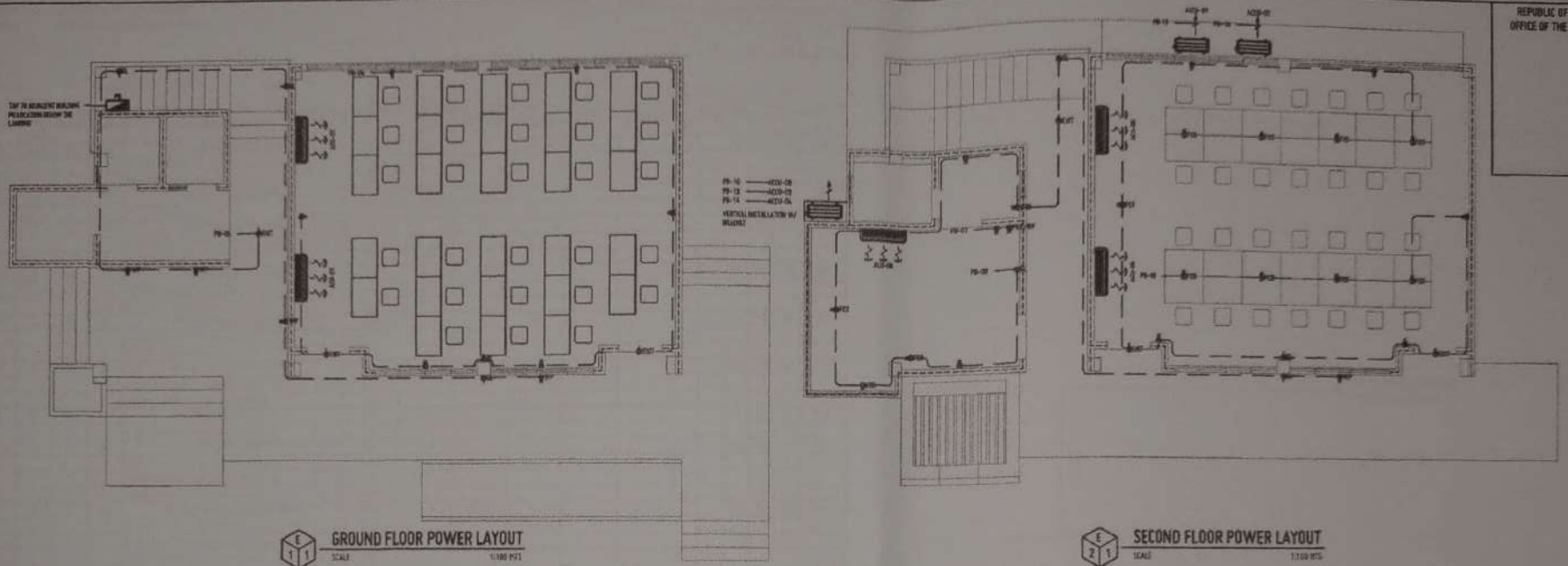
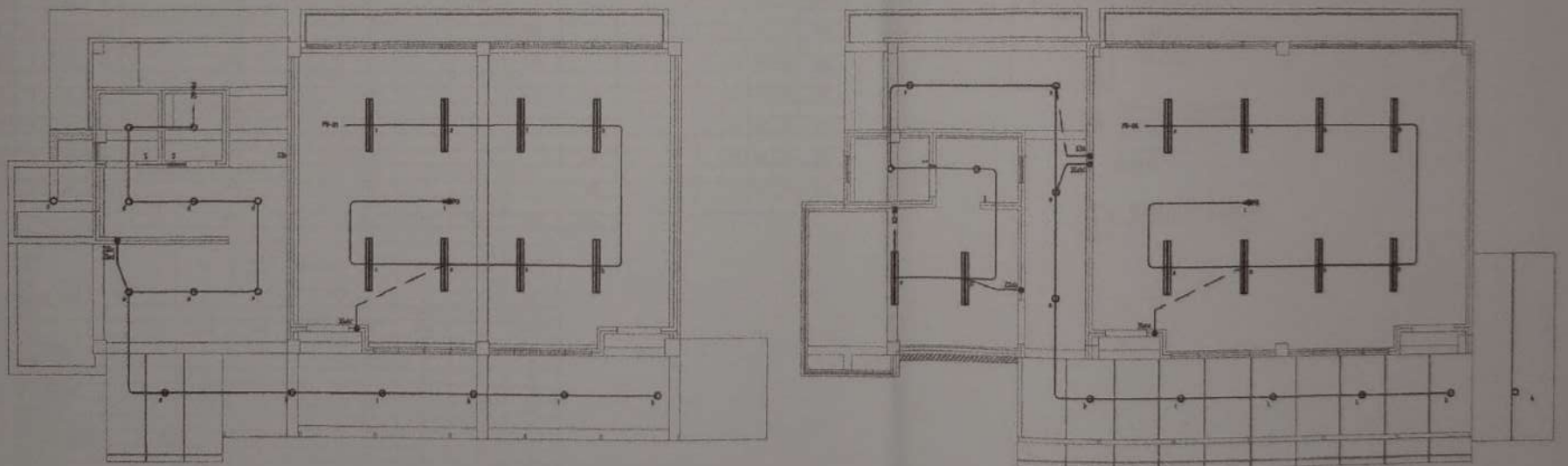
OFFICE OF THE BUILDING OFFICIAL



GROUND FLOOR POWER LAYOUT
SCALE 1:100 MTS

SECOND FLOOR POWER LAYOUT
SCALE 1:100 MTS



GROUND FLOOR LIGHTING LAYOUT
SCALE 1:100 MTS

SECOND FLOOR LIGHTING LAYOUT
SCALE 1:100 MTS

USTP

ELECTRICAL ENGINEER	
PRC NO.	PTR NO.
	DATE
TIN	PLACE

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. BUMPA
DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

RECOMMENDING APPROVAL:
ATTY. ERWIN B. ENCIO
DIRECTOR, LEGAL AFFAIRS

APPROVED BY:
DR. AMBROSIO B. CULTURA II
CHANCELLOR, USTP SYSTEM

SHEET CONTENTS:
GROUND FLOOR POWER LAYOUT
SECOND FLOOR POWER LAYOUT
GROUND FLOOR LIGHTING LAYOUT
SECOND FLOOR LIGHTING LAYOUT

DRAWN BY:
NO. 2019
DATE DRAWN:
04.04.2021
PMT:

E1

PROJECT: INFORMATION TECHNOLOGY BUILDING
ADDRESS: USTP JASAAN CAMPUS, MISAMIS ORIENTAL

DATE: 01-Jul-21
FEEDER:

NO OF SETS	THHN/THWN				CONDUIT	
	M	Y	X	G	ϕ	TYPE
1		3/4		6	50	PVC

PANEL: PB
LOCATION: GROUND FLOOR
BRANCH KAIC: 10

VOLT: 220
PHASE: 3
MAINS: 3P

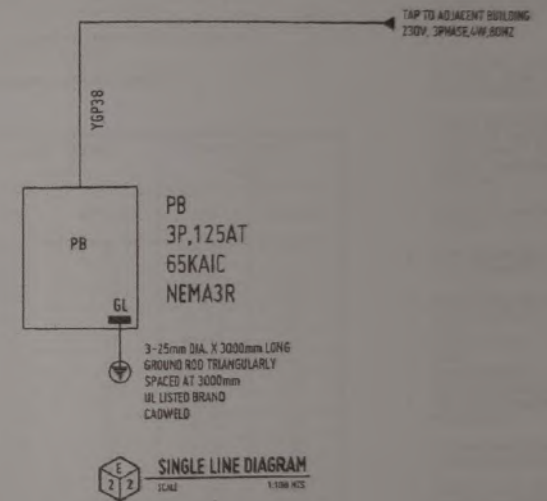
	AF	KAIC
	150	18

CKT No.	CB POLES	CB TRIP	AF	LOAD DESCRIPTION	KW	ϕ AB AMPS	ϕBC AMPS	ϕCA AMPS	3ϕ AMPS
1	2	30	60	PB-01 LIGHTING OUTLETS1	1.16	5.27			
				1 x 36 Watts LED Recessed Fluorescent Light - 8	0.5				
				Duplex Universal Convenience Outlet - 1	0.36				
2	2	30	60	PB-02 LIGHTING OUTLETS1	1.5	6.81			
				1 x 12 Watts LED Pin Light - 14	1.5				
3	2	30	60	PB-03 LIGHTING OUTLETS1	1.4		6.36		
				1 x 36 Watts LED Recessed Fluorescent Light - 2	0.2				
				1 x 12 Watts LED Pin Light - 11	1.2				
4	2	30	60	PB-04 LIGHTING OUTLETS1	1.16		5.27		
				1 x 36 Watts LED Recessed Fluorescent Light - 8	0.8				
				Duplex Universal Convenience Outlet - 1	0.36				
5	2	30	60	PB-05 CONVENIENCE OUTLETS1	2.16			9.82	
				Duplex Universal Convenience Outlet - 4	1.44				
				Simplex Universal Convenience Outlet - 4	0.72				
6	2	30	60	PB-06 CONVENIENCE OUTLETS1	2.7			12.27	
				Duplex Universal Convenience Outlet - 6	2.16				
				Simplex Universal Convenience Outlet - 3	0.54				
7	2	30	60	PB-07 MDF/IDF 2ND/F	0.72	3.27			
				Duplex Universal Convenience Outlet - 2	0.72				
8	2	30	60	PB-08 CONVENIENCE OUTLET 2ND/F	4.86	22.09			
				Duplex Floor Universal Convenience Outlet - 3	2.16				
				Duplex Universal Convenience Outlet - 4	2.16				
				Simplex Universal Convenience Outlet - 4	0.54				
9	2	30	60	PB-09 CONVENIENCE OUTLET 2ND/F	5.58		25.36		
				Duplex Floor Universal Convenience Outlet - 9	2.24				
				Duplex Universal Convenience Outlet - 5	1.8				
				Simplex Universal Convenience Outlet - 3	0.54				
10	2	30	60	PB-10	2.00		9.09		
				ACCU-06 OFFICE/SERVER ROOM 2ND F	2.00				
11	2	30	60	PB-11	0			0.00	
				SPARE	0				
12	2	30	60	PB-12	0			0.00	
				SPARE	0				
13	2	30	60	PB-13	3.00				7.88
				ACCU-04 OFFICE/SERVER ROOM 2ND F	3.00				
14	2	30	60	PB-14	3.00				7.88
				ACCU-05 OFFICE/SERVER ROOM 2ND F	3.00				
15	2	30	60	PB-15	3.00				7.88
				ACCU-01 OFFICE/SERVER ROOM 2ND F	3.00				
16	2	30	60	PB-16	3.00				7.88
				ACCU-02 OFFICE/SERVER ROOM 2ND F	3.00				
				TOTAL	35.24	37.45	46.09	22.09	31.53

NO OF SETS	THHN/THWN				CONDUIT	
	M	Y	X	G	ϕ	TYPE
			3.5	3.5	20	PVC
			3.5	3.5	20	PVC
			3.5	3.5	20	PVC
			3.5	3.5	20	PVC
			3.5	3.5	20	PVC
			3.5	3.5	20	PVC
			3.5	3.5	20	PVC
			3.5	3.5	20	PVC
			3.5	3.5	20	PVC
			3.5	3.5	20	PVC
			5.5	5.5	20	PVC
			5.5	5.5	20	PVC
			5.5	5.5	20	PVC
			5.5	5.5	20	PVC

DESIGN ANALYSIS

AVE P.F. 0.70	KW	DEMAND FACTOR	DEMAND KW	POWER FACTOR	DEMAND AMPS	% SPARE AMPS	TOTAL AMPERES
BIGGEST MOTOR	0	0	0	0	0	0	0
LIGHTS	5.27	0.7	3.69	1	9.58	25.00	12.00
C.O.	16.02	0.7	11.21	0.8	36.89	25.00	46.04
WATER HEATER	0	0	0	0	0	0	0
RANGE	0	0	0	0	0	0	0
CLOTHES DRYER	0	0	0	0	0	0	0
WASH MACHINE	0	0	0	0	0	0	0
AIRCON	14.00	0.7	9.80	0.8	32.19	25.00	40.23
MOTOR(CONT'D)	0	0	0	0	0	0	0
MOTOR(NON-CONT'D	0	0	0	0	0	0	0
OTHERS 1	0	0	0	0	0	0	0
OTHERS 2	0	0	0	0	0	0	0
OTHERS 3	0	0	0	0	0	0	0
TOTAL	35.24	0.70	24.69		78.62		98.27



E 2 2 SINGLE LINE DIAGRAM
SCALE 1:100 MTS

E 1 2 SCHEDULE OF LOADS
SCALE 1:100 MTS

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OFFICE OF THE BUILDING OFFICIAL

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REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

ELECTRICAL ENGINEER
PRC NO. | PTR NO.
DATE
SIGNATURE | PLACE

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: AR. FERDINAND A. DUMPA, DIRECTOR INFRASTRUCTURE PLANNING, FACILITY DEVELOPMENT AND SUSTAINABILITY UNIT
RECOMMENDING APPROVAL: ATTY. ERWIN A. BORJA, DIRECTOR ADMINISTRATION & LEGAL AFFAIRS
APPROVED BY: DR. AMBROSIO B. CULTURA II, PRESIDENT, USTP SYSTEM

SHEET CONTENTS: SCHEDULE OF LOADS, SINGLE LINE DIAGRAM
DRAWN BY: MG, JEW
DATE DRAWN: 06.01.2021
REV:

E2

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VICINITY MAP
NOT TO SCALE

LEGEND	
Symbol	Remarks
S	Single Pole Toggle Switch, 15A, 300V. 2S, 3S, Etc. Indicates Gang Switches, Small Letter Subscript Indicates Lights or Devices Being Controlled. Combine Maximum of Three (3) Toggles on One Standard Device Plate For Switch Location with More Than Nine (9) Toggle, Use Switch Book Plate.
S3	Same as Above Except 3-Way Switch
Φ	Duplex Convenience Outlet, 1P, 250V, 15A Universal Slots Grounding Type.
Φ_{FCO}	Duplex Floor Convenience Outlet, 1P, 250V, 15A Universal Slots Grounding Type.
Φ_{CTO}	Duplex Convenience Outlet, 1P, 250V, 15A Universal Slots Grounding Type, 300mm Height Above Counter Top
$\Phi_{MDF/IDF}$	Duplex Convenience Outlet, 1P, 250V, 15A Universal Slots Grounding Type, for MDF/IDF.
Φ_{WP}	Weatherproof Duplex Convenience Outlet, 1P, 250V, 15A Universal Slots Grounding Type, for MDF/IDF.
Φ_{EL}	Simplex Ceiling Convenience Outlet for Emergency light, 1P, 250V, 15A Universal Slots Grounding Type.
Φ_{EXIT}	Simplex Ceiling Convenience Outlet for Exit light, 1P, 250V, 15A Universal Slots Grounding Type.

NOTE: LIGHTING COLOR PER LOCATION SUBJECT FOR ARCHITECTS APPROVAL

GENERAL NOTES:

1. ALL WORKS SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES & REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITY CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND THE REGULATIONS OF THE UTILITY COMPANY CONCERNED.
2. POWER SERVICE TO THE BUILDING SHALL BE 230 VOLTS 3 PHASE 3 WIRE & GROUND.
4. SMALLEST CONDUCTOR FOR POWER AND LIGHTING SHALL BE 3.5mm2 THHN AND SMALLEST RACEWAY SHALL BE 15mm DIA. TRADE SIZE. CONDUCTOR SHALL BE TYPE THHN EXCEPT AS OTHERWISE REQUIRED BY THE DRAWING AND INSULATED FOR 600 VOLTS.
5. GROUNDING WIRE SHALL BE PROVIDED TO ALL EQUIPMENTS, OUTLETS AND LIGHTING CIRCUITS AND ALL NON-CURRENT CARRYING METAL PARTS.
6. MATERIALS AND EQUIPMENT TO BE USED SHALL BE NEW AND OF APPROVED TYPE FOR BOTH LOCATION AND PURPOSE INTENDED. SUBMIT SAMPLES OF MATERIALS TO THE ARCHITECT/ DESIGN ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
7. NO BRANCH CKT. SHALL HAVE A LOAD OF MORE THAN 80% OF ITS RATING.
8. CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. USE ONLY ONE BRAND ALL THROUGHOUT.
9. MOUNTING HEIGHT SHALL BE AS FOLLOWS:
   a. LIGHT CONTROL SWITCH - 1.52 ABOVE FINISHED FLOOR
   b. CONVENIENCE OUTLET - 0.30 ABOVE FINISHED FLOOR
   c. SPECIAL PURPOSE OUTLET - 0.30 ABOVE FINISHED FLOOR OR AS REQUIRED BY THE ARCHITECT
   d. PANEL BOARDS, FIRE ALARM PANEL 1.80 FROM TOP OF PANEL TO FINISHED FLOOR
10. ALL WORKS SHALL BE COORDINATED WITH THE ARCHITECT AND OTHER TRADE DISCIPLINE PRIOR TO INSTALLATION.
11. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ELECTRICAL ENGINEER.
12. CONTRACTOR TO PERFORM ALL TEST NECESSARY BUT NOT LIMITED TO THE FOLLOWING.
   a. CABLE INSULATION INTEGRITY TEST
   b. PHASE SEQUENCE TEST
   c. LOAD TEST
   d. COMPLETE TEST FOR TRANSFORMER
13. ALL WIRES SHALL BE COLOR CODED AS FOLLOWS:
   PHASE - A - BLACK
   GROUND - GREEN
   PHASE - B - RED
   PHASE - C - BLUE
14. NO CHANGE OR MODIFICATION SHALL BE MADE ON THESE PLANS WITHOUT THE ENGINEER'S/OWNER'S WRITTEN COMMENT.
15. ALL MOTORS AND AIR-CONDITIONING UNITS MUST HAVE INDIVIDUAL ENCLOSED CIRCUIT BREAKER

THHN/THWN CODE AND CONDUIT SIZE

PHASE WIRE SQMM (AWG)	AMPS	GROUND WIRE SQMM (AWG)	2-WIRE + GROUND uPVC		3-WIRE + GROUND uPVC		4-WIRE + GROUND uPVC		2-WIRE + GROUND METAL		3-WIRE + GROUND METAL		4-WIRE + GROUND METAL	
			CODE	SIZE mm ϕ	CODE	SIZE mm ϕ	CODE	SIZE mm ϕ	CODE	SIZE mm ϕ	CODE	SIZE mm ϕ	CODE	SIZE mm ϕ
3.5(#12)	25	3.5(#12)	XGP3.5	20	YGP3.5	20	NYGP3.5	20	XGM3.5	15	YGM3.5	15	NYGM3.5	15
5.5(#10)	30	5.5(#10)	XGP5.5	20	YGP5.5	32	NYGP5.5	32	XGM5.5	15	YGM5.5	20	NYGM5.5	20
8.0(#8)	40	5.5(#10)	XGP8.0	25	YGP8.0	32	NYGP8.0	32	XGM8.0	20	YGM8.0	25	NYGM8.0	25
14(#6)	55	5.5(#10)	XGP14	32	YGP14	32	NYGP14	32	XGM14	25	YGM14	25	NYGM14	32
22(#4)	70	8.0(#8)	XGP22	32	YGP22	40	NYGP22	50	XGM22	25	YGM22	32	NYGM22	40
30(#2)	90	8.0(#8)	XGP30	40	YGP30	50	NYGP30	50	XGM30	32	YGM30	40	NYGM30	40
38(#1)	100/125	8.0(#8)	XGP38	40	YGP38	50	NYGP38	63	XGM38	32	YGM38	40	NYGM38	50
50(#1/0)	145	14(#6)	XGP50	50	YGP50	63	NYGP50	63	XGM50	40	YGM50	50	NYGM50	50
60(#2/0)	160	14(#6)	XGP60	50	YGP60	63	NYGP60	63	XGM60	40	YGM60	50	NYGM60	50
80(#3/0)	195	14(#6)	XGP80	50	YGP80	63	NYGP80	63	XGM80	40	YGM80	50	NYGM80	50
100(#4/0)	220	22(#4)	XGP100	63	YGP100	63	NYGP100	75	XGM100	50	YGM100	50	NYGM100	65
125(250)	255	22(#4)	XGP125	63	YGP125	75	NYGP125	90	XGM125	50	YGM125	65	NYGM125	65
150(300)	280	22(#4)	XGP150	63	YGP150	75	NYGP150	90	XGM150	50	YGM150	65	NYGM150	80
200(400)	330	30(#2)	XGP200	75	YGP200	90	NYGP200	90	XGM200	65	YGM200	80	NYGM200	80
250(500)	375	30(#2)	XGP250	90	YGP250	90	NYGP250	100	XGM250	80	YGM250	80	NYGM250	90
400(800)	485	30(#2)	XGP400	100	YGP400	1"0	NYGP400	5"	XGM400	80	YGM400	90	NYGM400	100
500(1000)	450	38(#1)	XGP500	110	YGP500	5"	NYGP500	5"	XGM500	90	YGM500	100	NYGM500	-

NOTES:
- X - TWO WIRES (L-R OR L-N), THHN/THWN
- Y - THREE WIRES (THREE PHASE), THHN/THWN
- N - NEUTRAL WIRE, SAME SIZE AS PHASE WIRE OR AS NOTED IN THE PANEL SCHEDULE
- G - GROUND WIRE, REFER SIZE TO PEC FOR PARALLEL RUNS
- M - METAL CONDUIT, IMC, RSC OR EMT
- P - uPVC CONDUIT

SCHEDULE OF LOADS
SCALE NTS

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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

ELECTRICAL ENGINEER
PRC NO. | PTR NO.
DATE
TIN | PLACE

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: MTF ARAAN CAMPUS MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINANDO A. DUMPA
HEAD OF INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT UNIT

RECOMMENDING APPROVAL:
ATTY. ERWIN B. RUBIO
VICE PRESIDENT FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SCHEDULE OF LOADS
LEGENDS
GENERAL NOTES
VICINITY MAP

DRAWN BY: MG, JDP
DATE DRAWN: 06.01.2021
REF:

E3

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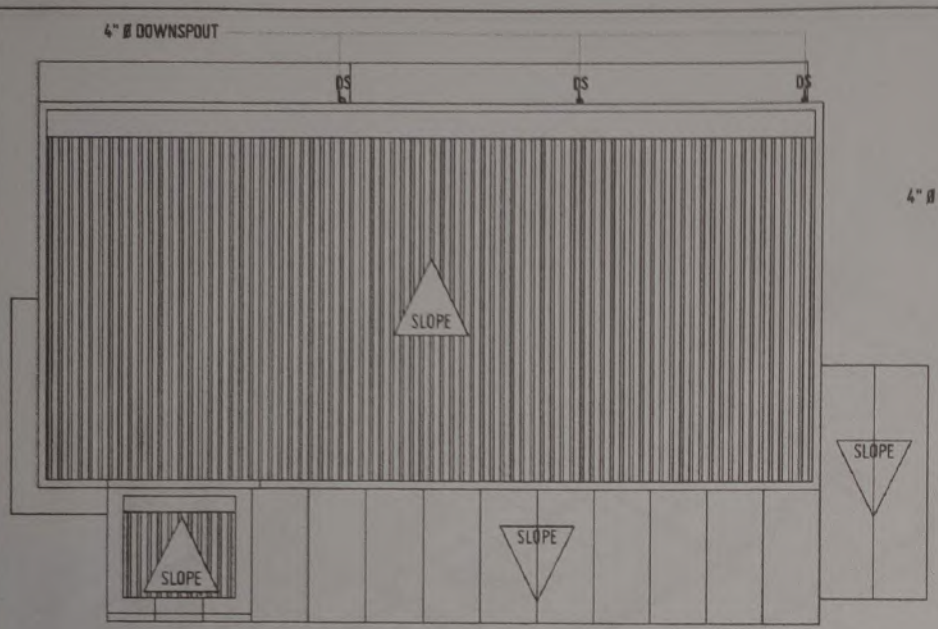
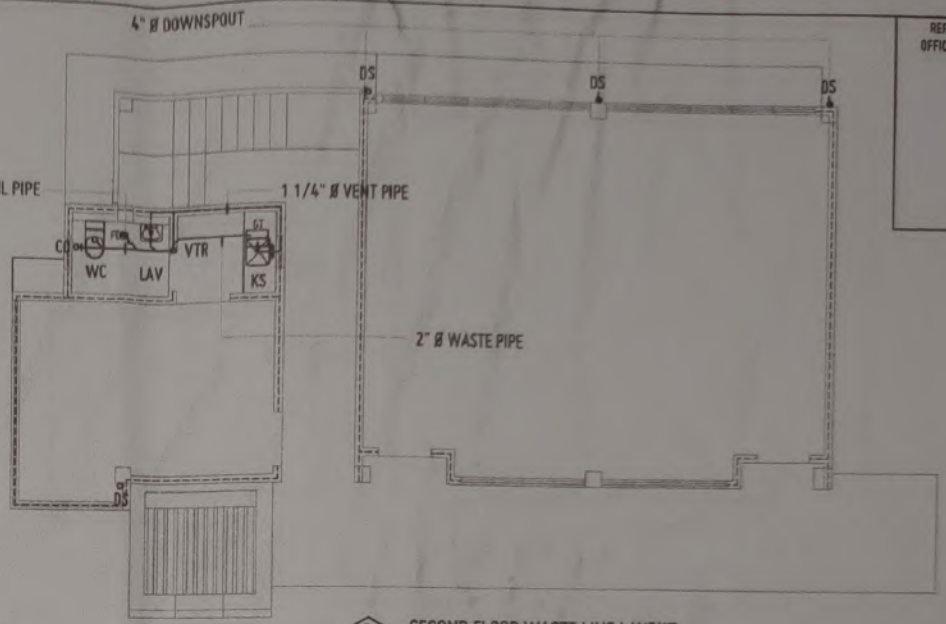
OFFICE OF THE BUILDING OFFICIAL

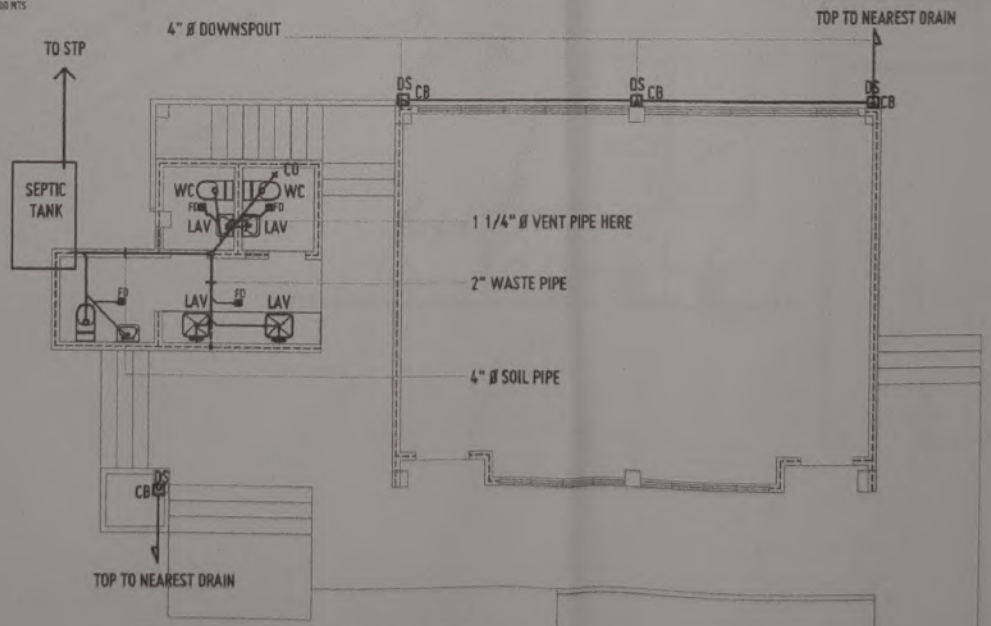


ROOF DRAIN LAYOUT
SCALE 1:100 MTS



SECOND FLOOR WASTE LINE LAYOUT
SCALE 1:100 MTS

VICINITY MAP
NOT TO SCALE



GROUND FLOOR WASTE LINE LAYOUT
SCALE 1:100 MTS

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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

MASTER PLUMBER
PRC NO. | PTR NO.
DATE
TIN | PLACE

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
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DIRECTOR, INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. ERWIN M. PUEBLO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

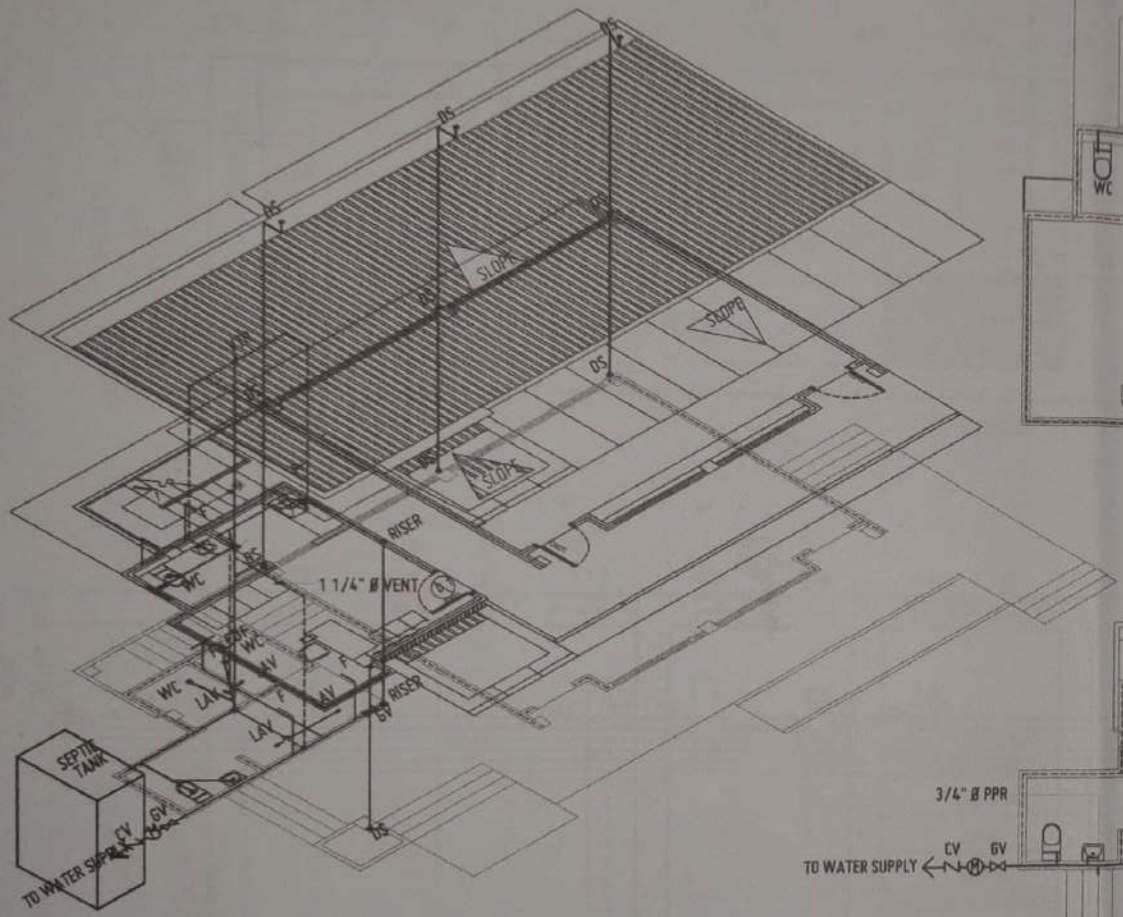
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
GROUND FLOOR WASTE LINE LAYOUT
SECOND FLOOR WASTE LINE LAYOUT
ROOF DRAIN LAYOUT
VICINITY MAP

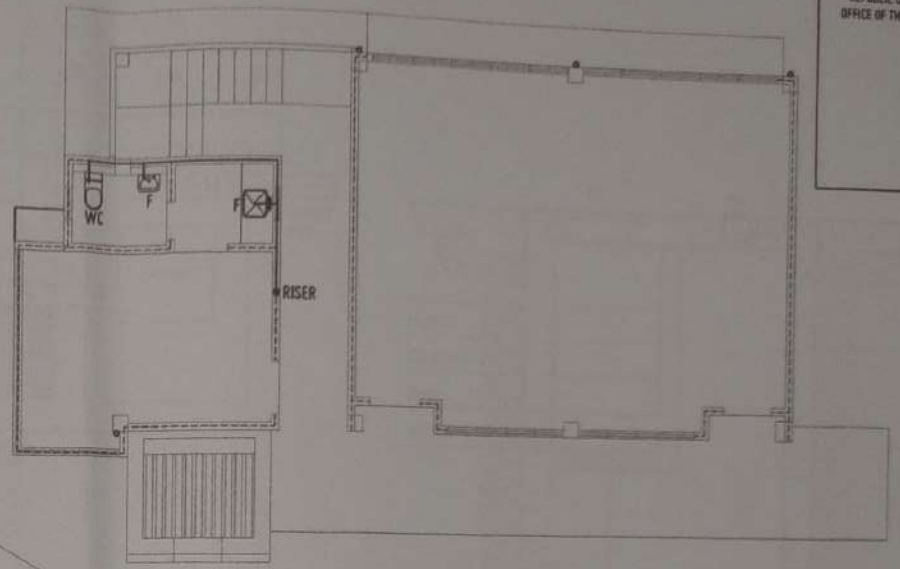
DRAWN BY: JDDP, RC
DATE DRAWN: 06.01.2021
FNF:

P1

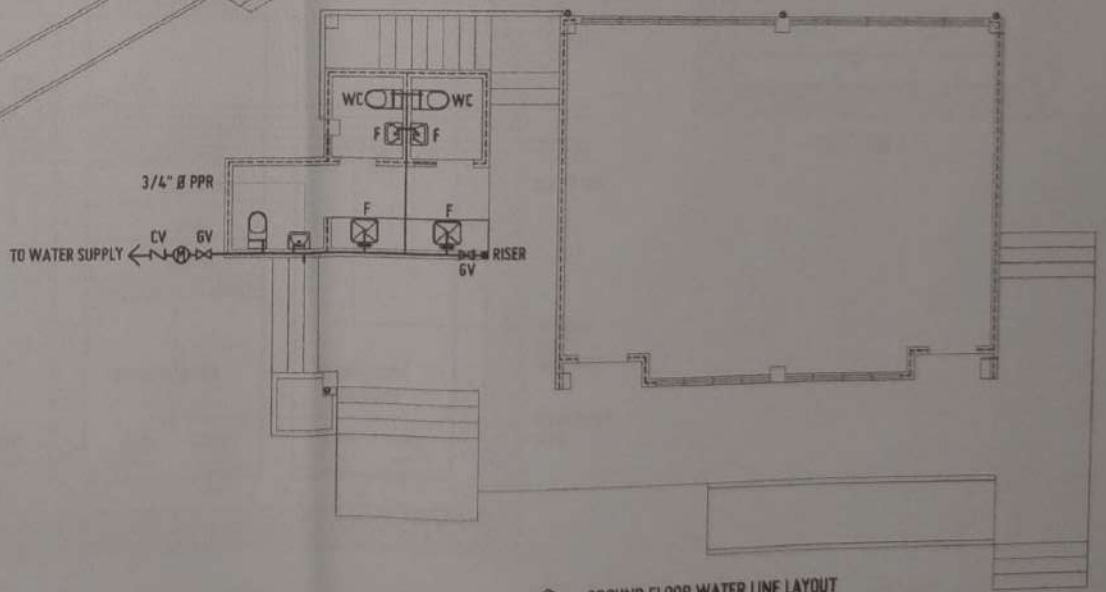
REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



ISOMETRIC LAYOUT
SCALE 1:100 MTS



SECOND FLOOR WATER LINE LAYOUT
SCALE 1:100 MTS



GROUND FLOOR WATER LINE LAYOUT
SCALE 1:100 MTS

USTP

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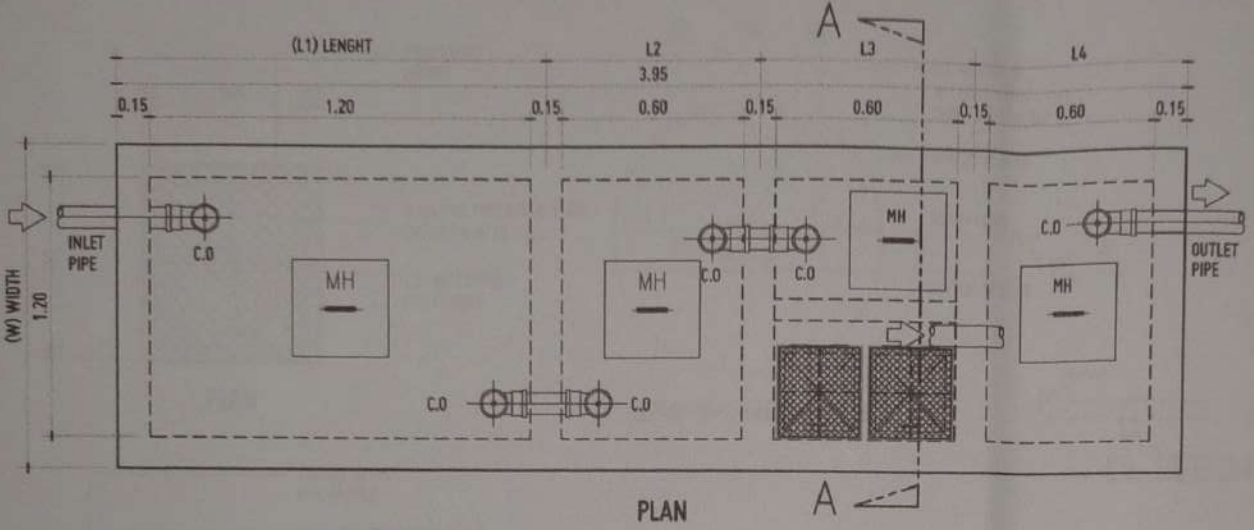
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL: AR. FERDINAND A. CUIPEA
RECOMMENDING APPROVAL: ATTY. ERWIN B. [illegible]
APPROVED BY: DR. AMBROSIO B. CULTURA II

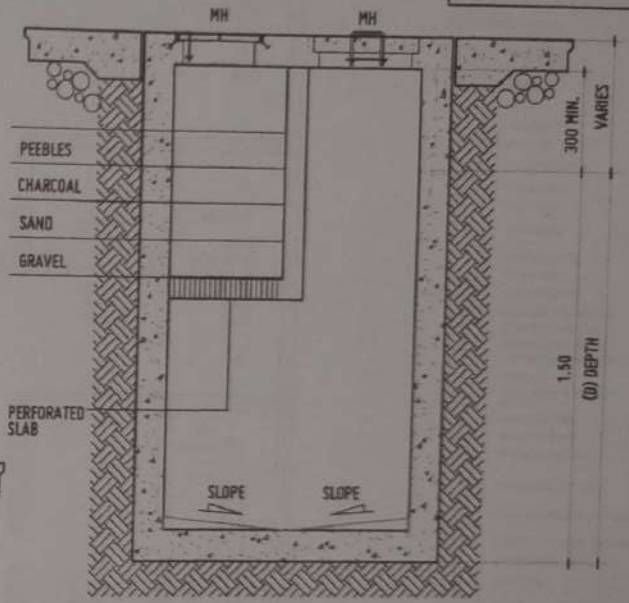
SHEET CONTENTS: GROUND FLOOR WATER LINE LAYOUT; SECOND FLOOR WATER LINE LAYOUT; PLUMBING ISOMETRIC LAYOUT
DRAWN BY: [illegible]
DATE DRAWN: 08.01.2021
UNIT:

P2

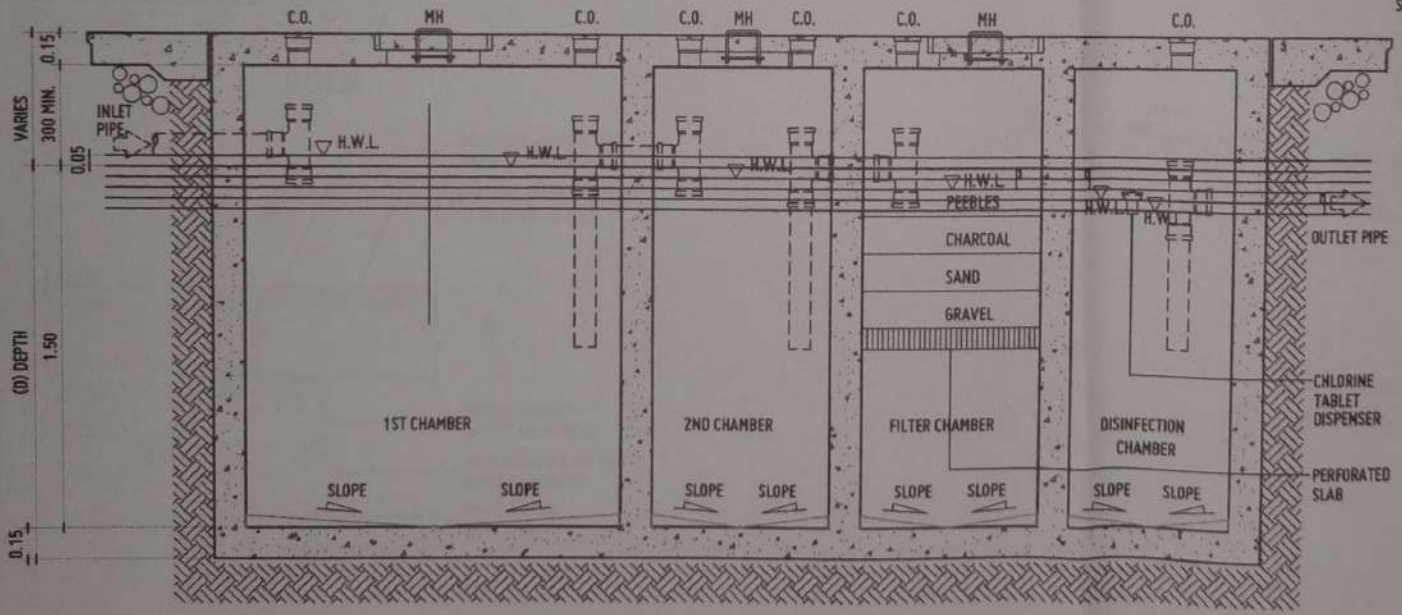
REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL



PLAN



SECTION A



SECTION

SCEPTIC TANK BLOW-UP DETAIL
SCALE NTS

USTP

REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

MASTER PLUMBER
PRC NO. PTR NO.
DATE
TIN PLACE

PROJECT: PROPOSED INTEGRATED TECHNOLOGY BUILDING
LOCATION: USTP JASAAN CAMPUS, MISAMIS ORIENTAL
OWNER: UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
AR. FERDINAND A. DUMPA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT UNIT

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUICO
VP FOR ADMINISTRATION AND FINANCE, USTP JASAAN

APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SCEPTIC TANK DETAILS

DRAWN BY:
AZDPL MC
DATE DRAWING:
06.01.2021
REF:

P3