

1. THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, OPENINGS AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORKS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK.
3. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OR CONSTRUCTION SHALL BE USED, SUBJECT TO THE APPROVAL BY THE ROYAL COMMISSION.
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 UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
6. ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.

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

MAIN REINFORCEMENT			
BARS (MM)	MINIMUM BEND DIAMETER	EXTENSION	
	D1 (MM)	L1 (MM)	L2 (MM)
Ø8	50	60	95
Ø10	60	60	125
Ø12	70	60	145
Ø14	85	60	170
Ø16	95	65	190
Ø18	110	70	215
Ø20	120	80	240
Ø22	130	90	265
Ø25	150	100	300
Ø28	225	110	335

BARS (MM)	MIN. DEVELOPMENT LENGTH			MIN. LAP LENGTH	
	IN TENSION		IN COM- PRESSION	IN TENSION	IN COM- PRESSION
	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	565	295	735	410
#16	840	645	335	840	470
#18	945	725	380	945	530
#20	1050	805	420	1050	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

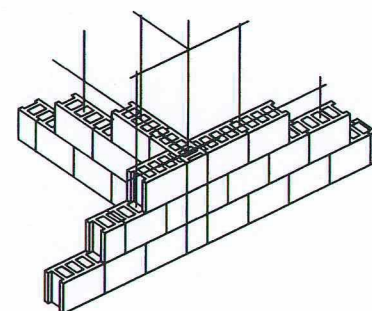
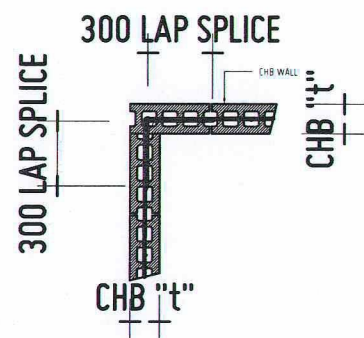
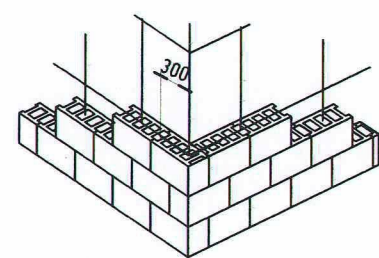
Stones shall be flat and sectioned placed with their faces. The larger stones shall generally be located in the lower part of the structure and voids shall be eliminated to the extent possible. Spalls smaller than the minimum stone size specified in Section 505.7, Material Requirements, shall be used to check the larger stones solidly in position and to substantially fill voids between the larger stones as the masonry is emplaced. The exposed face of the rock mass shall be reasonably uniform, with no projection over more than 150mm, beyond the neat lines shown on the Plans or as directed by the Engineer. Backfill adjacent to the hand rock face of the embankment shall be filled entirely with acceptable material coming from excavated items and compacted.

ACI	~	AMERICAN CONCRETE INSTITUTE
ADD'L	~	ADDITIONAL
AP	~	ALTERNATELY PLACED
AR	~	ALTERNATELY REVERSED
AS	~	ALTERNATELY STAGGERED
ASTM	~	AMERICAN SOCIETY FOR TESTING
AND MATERIALS	~	
AWS	~	AMERICAN WELDING SOCIETY
B	~	BOTTOM
BF	~	BACK FACE
BW	~	BOTHWAYS
CL	~	CENTER LINE
CLR	~	CLEAR
CMU	~	CONCRETE MASONRY UNIT
CONC	~	CONCRETE
CONT	~	CONTINUOUS
DIA	~	DIAMETER
DISCONT	~	DISCONTINUOUS
DTL	~	DETAIL
DWG	~	DRAWING
FF	~	FACE FACE
FL	~	EXISTING LEVEL
ELEV	~	ELEVATION
EQ	~	EQUAL
EW	~	EACH WAY
EXT	~	EXTERIOR
FF	~	FRONT FACE
FIN	~	FINISH
GLS	~	GUIDELINE SPECIFICATION
HOR	~	HORIZONTAL
INT	~	INTERIOR
LGTH	~	LENGTH
MIN	~	MINIMUM
NTS	~	NOT TO SCALE
OE	~	ON CENTER
REBAR	~	REINFORCING BAR
REINF	~	REINFORCED, REINFORCEMENT OR
REINFORCING	~	
SEC	~	SECTION
SP	~	SPACING
STIRR	~	STIRRUPS
SYMM	~	SYMMETRICAL
T	~	TOP
THK	~	THICK
TYP	~	TYPICAL
UNO	~	UNLESS OTHERWISE NOTED
VERT	~	VERTICAL
WWF	~	WELDED WIRE FABRIC

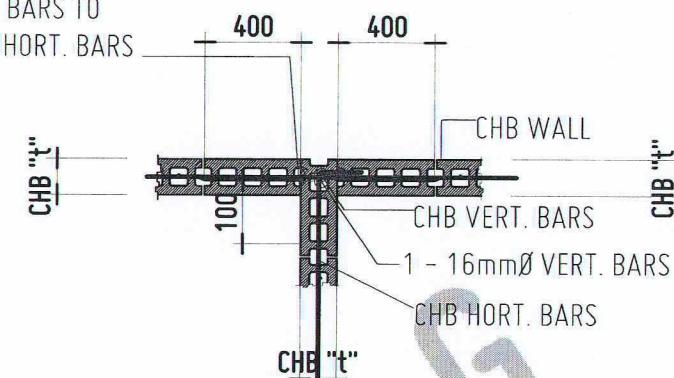
WHEN USING WATER PROOF MEMBRANE, IT SHOULD BE AS PER
ASTM D5385/ASTM C1127/DPWH STANDARDS SPECIFICATIONS
1016

MTS





DOWEL BARS TO
MATCH HORT. BARS



S
2 1

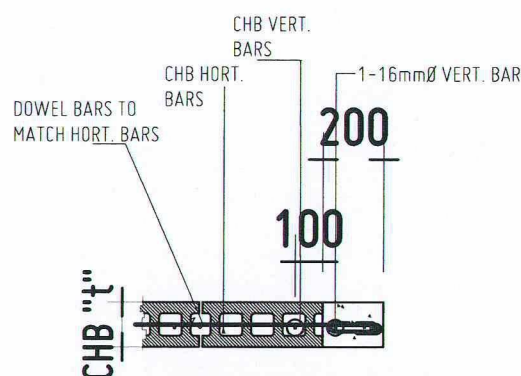
TYPICAL CONNECTION DETAIL OF CORNER WALL

SCALE: 1:50 MTS

S
2 2

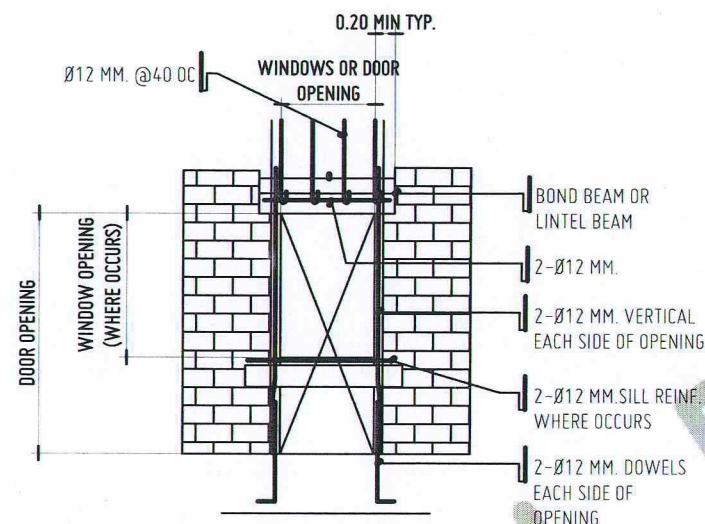
TYPICAL CONNECTION DETAIL OF WALL INTERSECTION

SCALE: 1:50 MTS



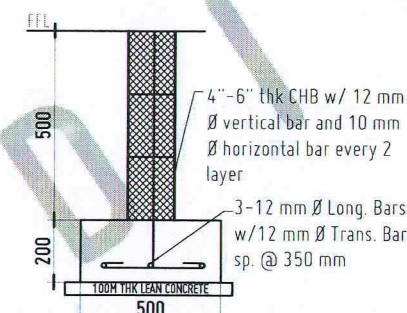
TYPICAL CONNECTION AT END/OPENING OF MASONRY WALL

SCALE: 1:50 MTS



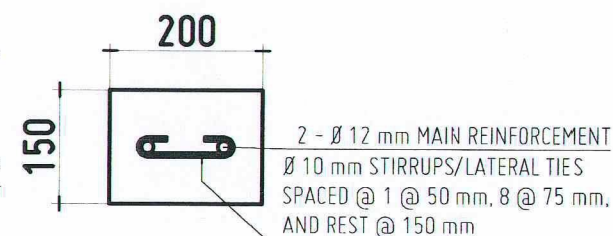
TYPICAL WALL OPENING DETAIL

SCALE: 1:100 MTS



WALL FOOTING (WF) DETAILS

SCALE: 1:20 MTS



LINTEL AND STIFFENER BEAM DET.

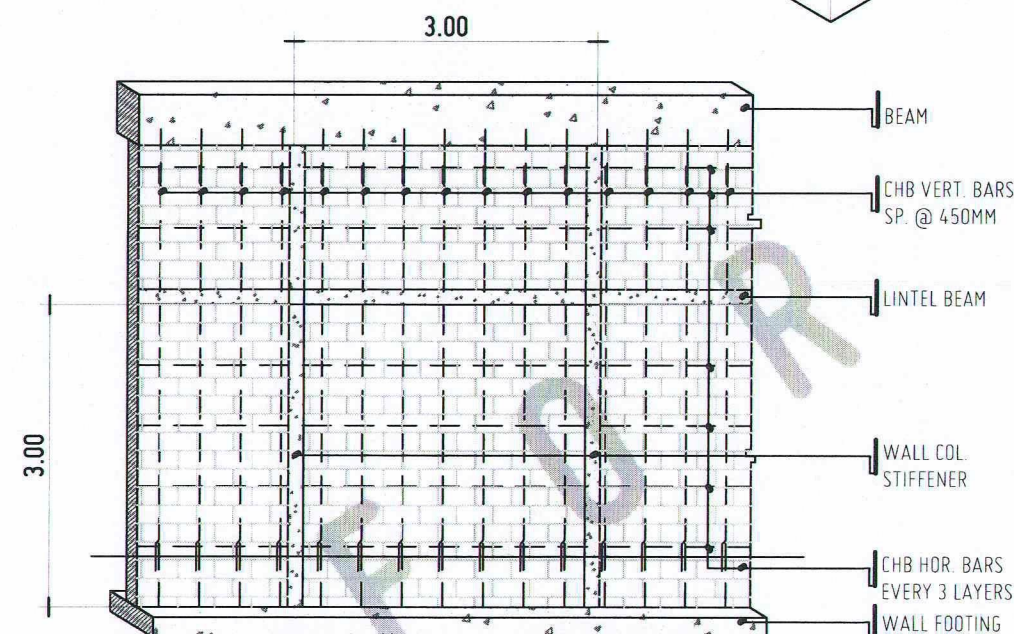
SCALE: 1:10 MTS

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2 3

S
2 4

S
2 5

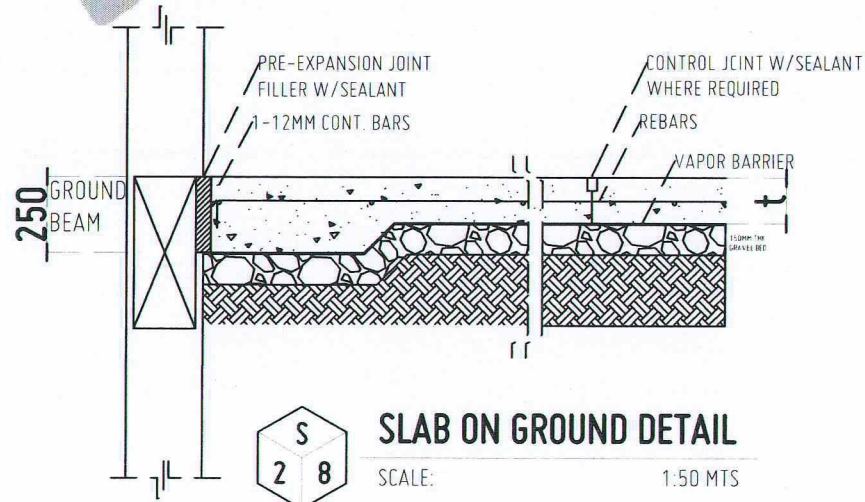
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2 6



TYPICAL WALL CONSTRUCTION

SCALE: 1:75 MTS

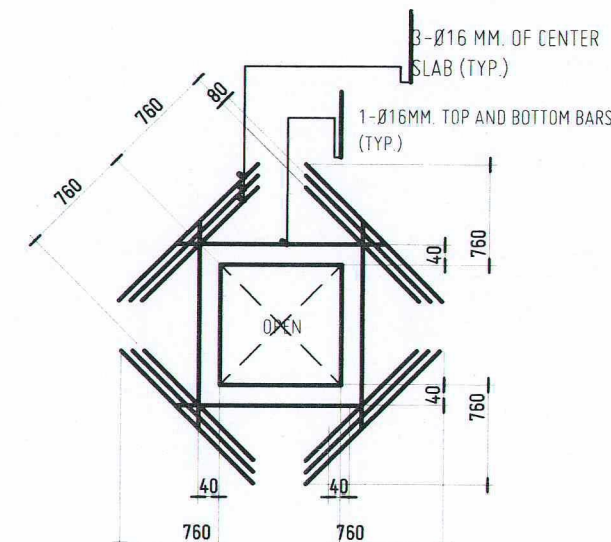
TYP. MASONRY WALL DETAILS



SLAB ON GROUND DETAIL

SCALE: 1:50 MTS

S
2 8



TYPICAL SLAB OPENING DETAIL

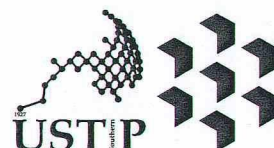
SCALE: 1:50 MTS

S
2 9

S
2 2

TYPICAL STRUCTURAL DETAILS

SCALE: MTS



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UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
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ENGR. ERNESTO CH. QUIJOTE
CIVIL/STRUCTURAL ENGINEER
PRC NO. 0044940 PIR NO. 1167669 A
DATE 01-30-2025
TIN NO. 153-320-743 PLACE EL SALVADOR CITY

PROJECT
ESTABLISHMENT OF
THREE-STOREY SMART COMPUTING ACADEMIC
BUILDING, PHASE 1, OROQUIETA CAMPUS
LOCATION
USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
OWNER
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
ENGR. GRACE C. BABA
DIRECTOR, INFRASTRUCTURE PLANNING
& FACILITIES DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
DR. GLOMER L. CLARIN
DIRECTOR, USTP OROQUIETA

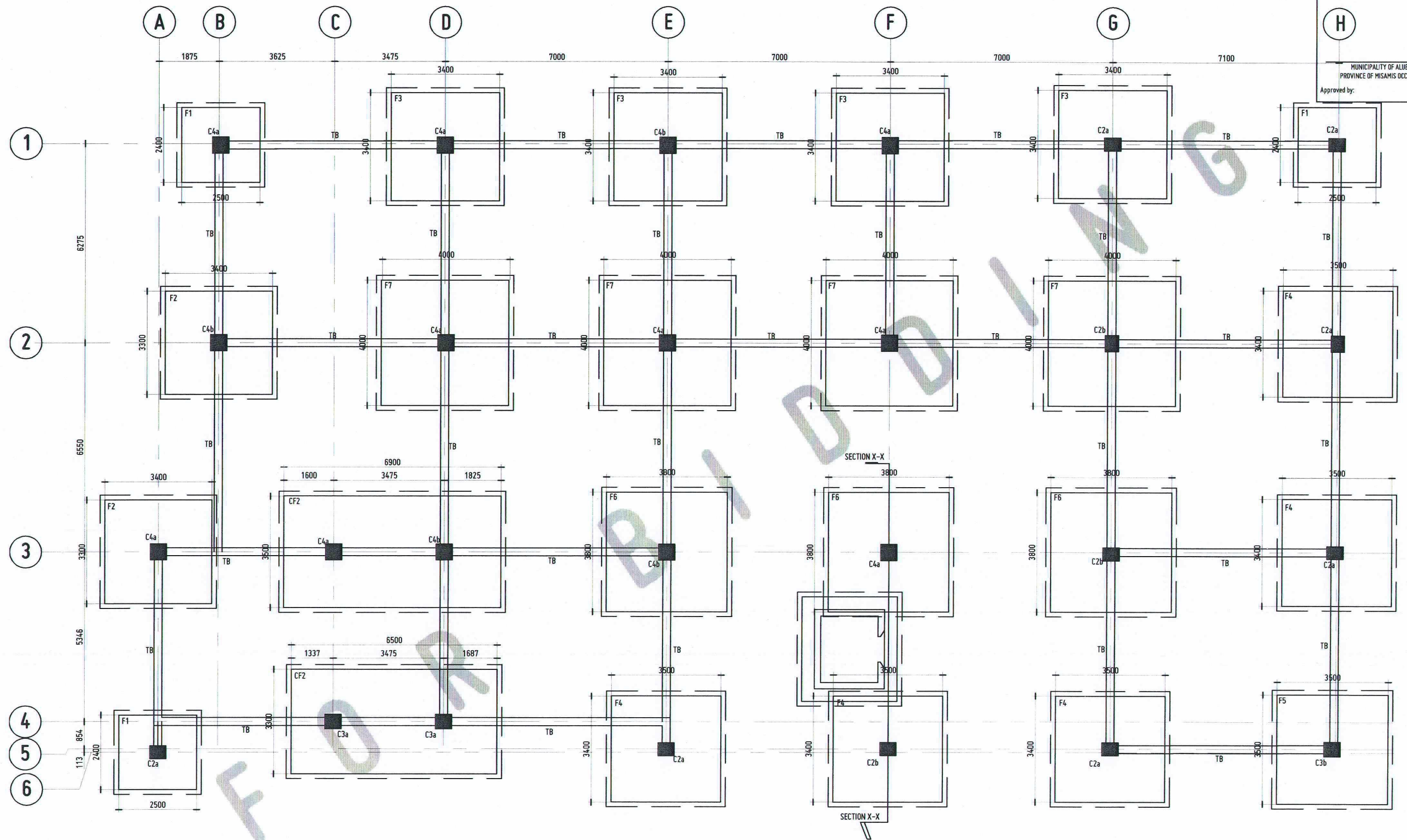
RECOMMENDING APPROVAL:
ATTY. JONATHAN S. OCHE
OFFICE OF THE
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

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DATE DRAWN:
FNT:

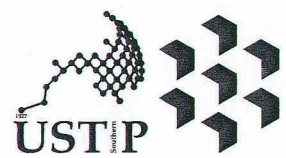
S2



FOUNDATION PLAN

SCALE: 1:120 MTS

- NOTE:
- ALL SURFACE OF FOUNDATIONS EXPOSED TO GROUND SHALL BE APPLIED WITH DAMPPROOFING MATERIAL ACCORDING TO DPWH ITEM 1016
 - ALL SOIL EMBANKMENT SHALL OBSERVE PROPER COMPACTION ACCORDING TO DPWH ITEM 104



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PRC NO. 0044940 PTR NO. 167669 A
DATE 01-28-2026
TIN NO. 152-320-745 PLACE EL SALVADOR CITY

PROJECT
ESTABLISHMENT OF
THREE-STORY SMART COMPUTING ACADEMIC
BUILDING, PHASE 1, OROQUIETA CAMPUS
LOCATION
USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
OWNER
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
ENGR. GRACE C. BABA
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& FACILITIES DEVELOPMENT OFFICE

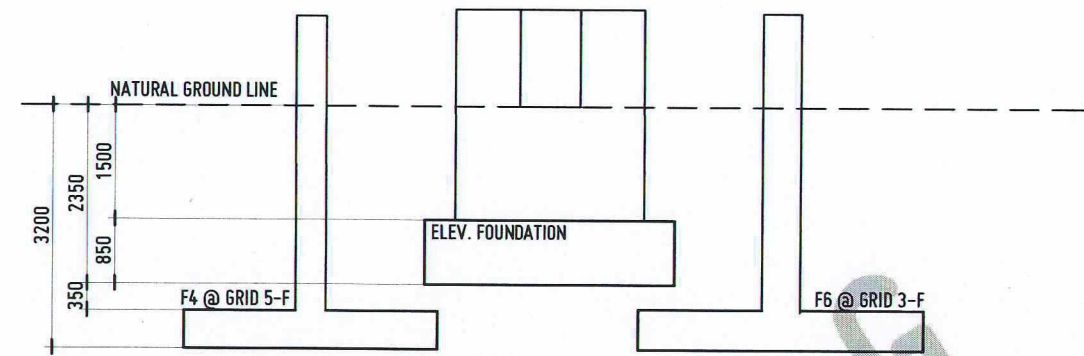
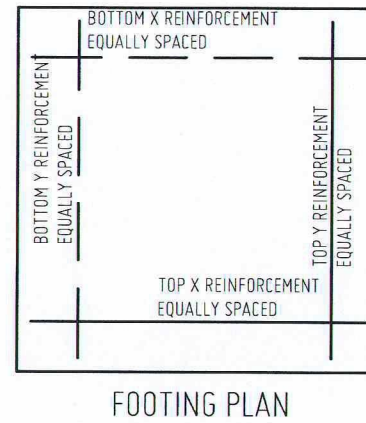
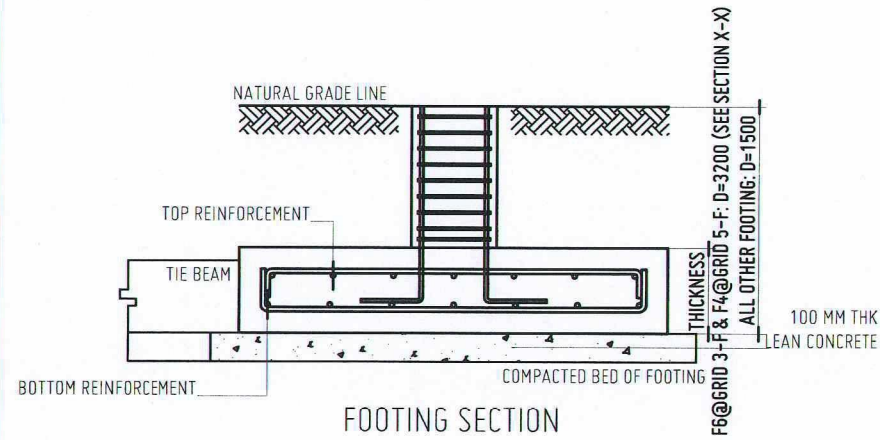
RECOMMENDING APPROVAL:
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DIRECTOR, USTP OROQUIETA

RECOMMENDING APPROVAL:
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OFFICE OF THE
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
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PRESIDENT, USTP SYSTEM

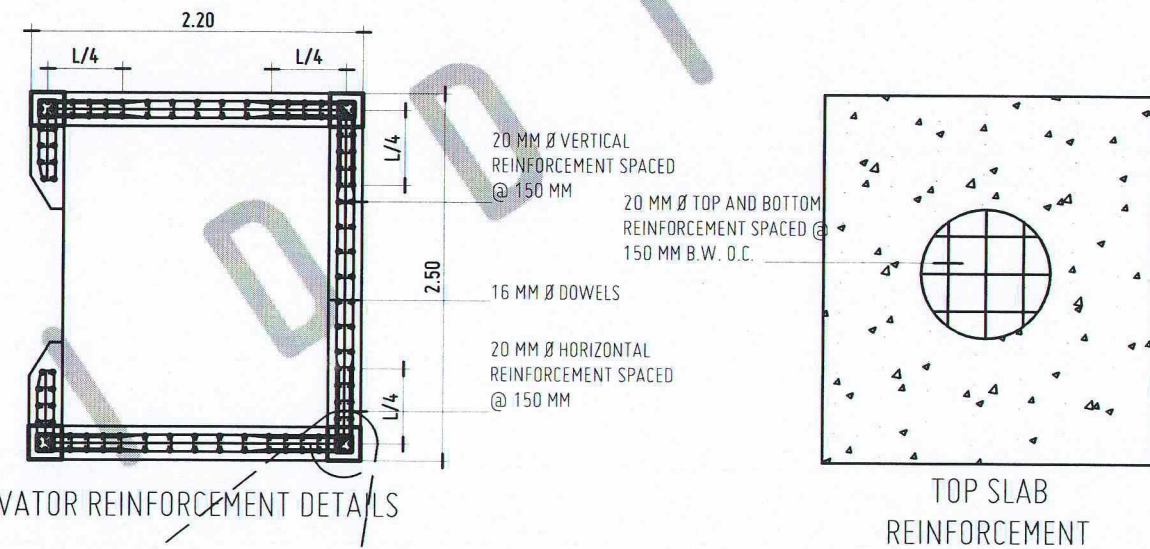
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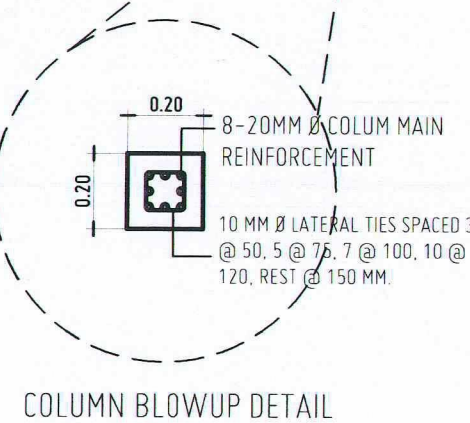
SECTION X-X
SCALE: 1:100 MTS

FOOTING DETAILS
SCALE: 1:50 MTS



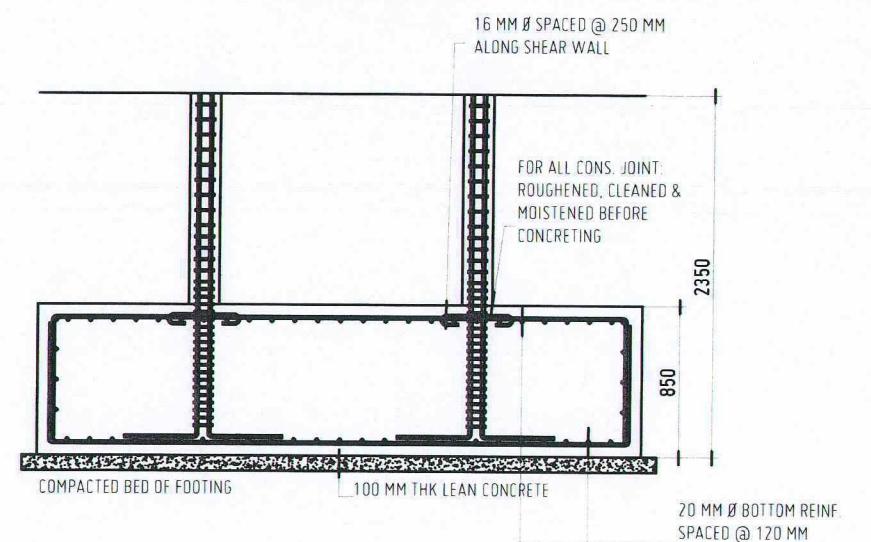
TOP SLAB REINFORCEMENT

C1	C2a	C2b	C3a
C3b	C4a	C4b	PC1
C O L U M N S C H E D U L E			



COLUMN BLOWUP DETAIL

ELEVATOR DETAILS
SCALE: 1:50 MTS



COLUMN DETAILS
SCALE: 1:25 MTS



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PRC NO. 0044940 PTR NO. 1167669 A
DATE: 01-28-2023
TIN NO. 152-320-743 PLACE: EL SALVADOR CITY

PROJECT
ESTABLISHMENT OF
THREE-STOREY SMART COMPUTING ACADEMIC
BUILDING, PHASE 1, OROQUIETA CAMPUS
LOCATION: USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
ENGR. GRACE C. BABA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITIES DEVELOPMENT OFFICE

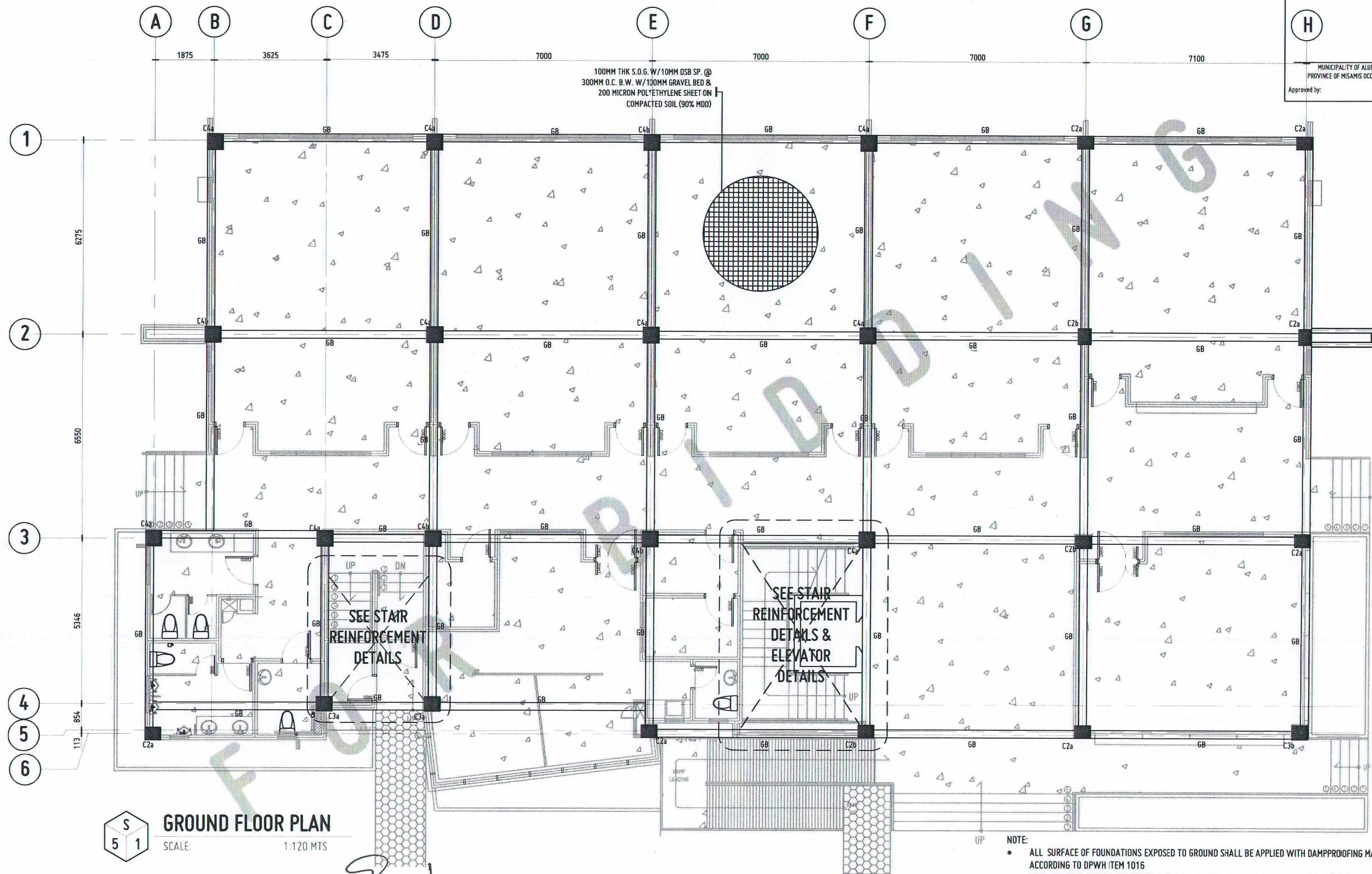
RECOMMENDING APPROVAL:
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DIRECTOR, USTP OROQUIETA

RECOMMENDING APPROVAL:
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OFFICE OF THE
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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PRESIDENT, USTP SYSTEM

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S4

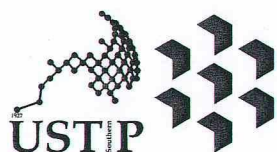


GROUND FLOOR PLAN

SCALE: 1:120 MTS

NOTE:

- ALL SURFACE OF FOUNDATIONS EXPOSED TO GROUND SHALL BE APPLIED WITH DAMPROOFING MATERIAL ACCORDING TO DPWH ITEM 1016
- WALL FOOTING SHALL BE PROVIDED FOR ALL CHB WALLS NOT ALONG GROUND BEAMS (SEE WF DETAILS) AS SHOWN



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PRC NO. 0044943 PTR NO. 167669 A
DATE 01-20-2026
TIN NO. 152-920-143 PLACE EL SALVADOR CITY

PROJECT
ESTABLISHMENT OF
THREE-STOREY SMART COMPUTING ACADEMIC
BUILDING, PHASE 1, OROQUIETA CAMPUS
LOCATION
USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
OWNER
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
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DIRECTOR, INFRASTRUCTURE PLANNING
& FACILITIES DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
DR. GLORIMER L. CLARIN
DIRECTOR, USTP OROQUIETA

RECOMMENDING APPROVAL:
ATTY. JONATHAN S. OCHE
OFFICE OF THE
VP FOR ADMINISTRATION & LEGAL AFFAIRS

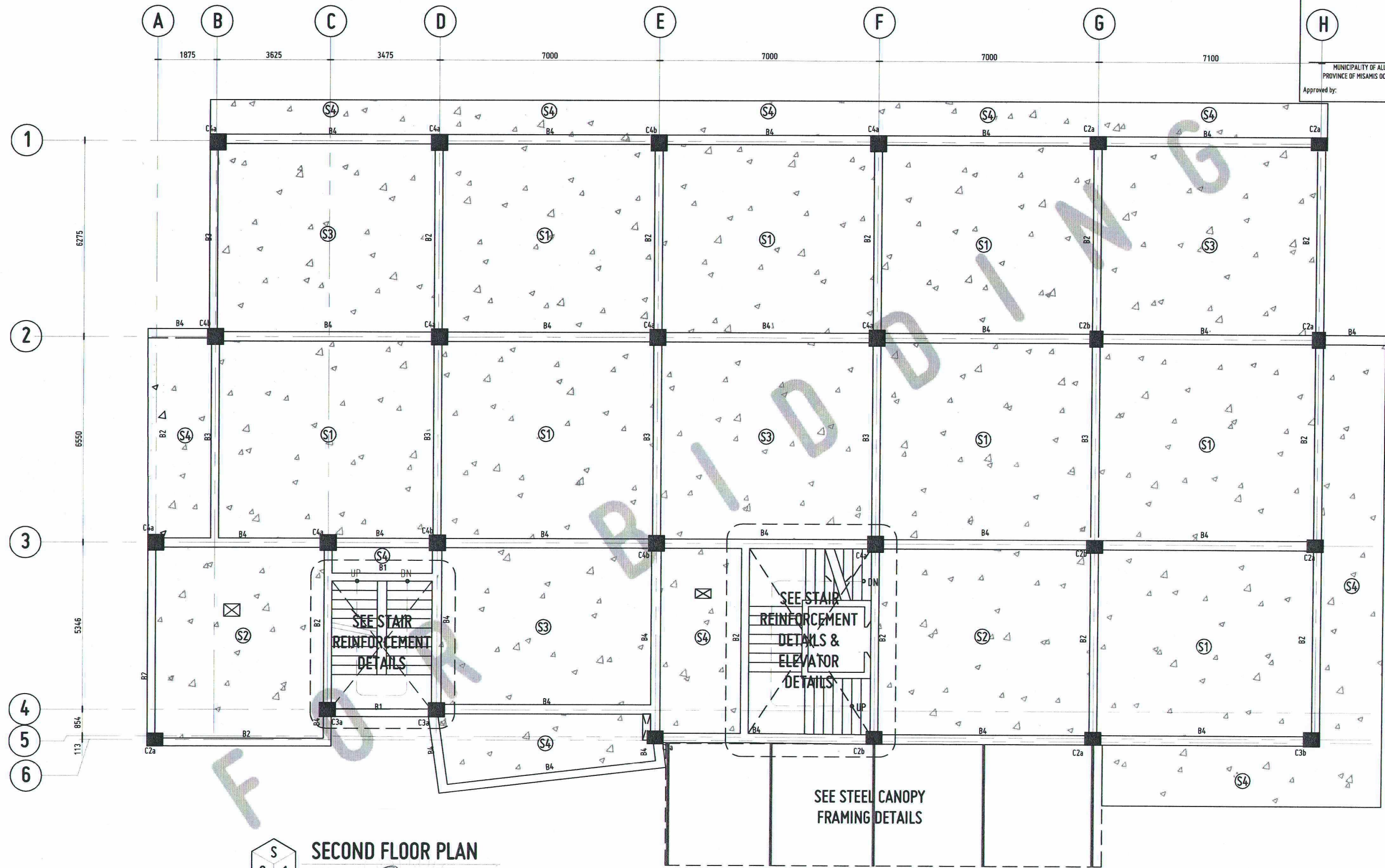
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

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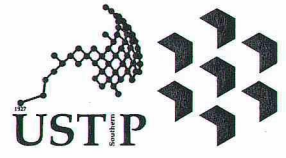
S5

Approved by:



S
6
1

SECOND FLOOR PLAN
SCALE: 1/120 MTS



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DATE 01-28-2020
TIN NO. 152-320-743 PLACE EL SALVADOR CITY

PROJECT
**ESTABLISHMENT OF
THREE-STOORY SMART COMPUTING ACADEMIC
BUILDING, PHASE 1, OROQUIETA CAMPUS**
LOCATION
USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
OWNER
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:

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DIRECTOR, INFRASTRUCTURE PLANNING
& FACILITIES DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:

DR. GLORIMER L. CLARIN
DIRECTOR, USTP OROQUIETA

RECOMMENDING APPROVAL:

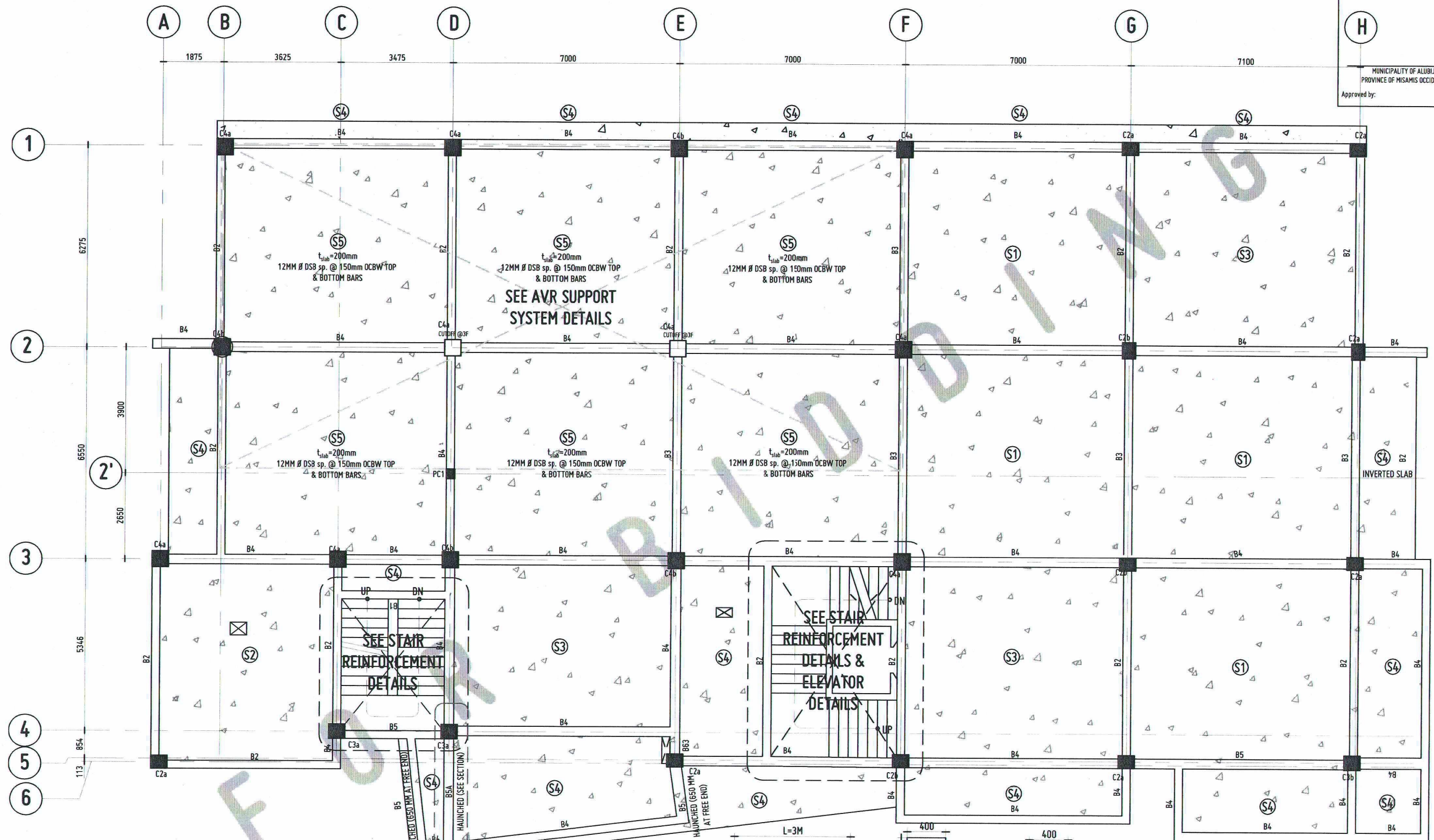
ATTY. JONATHAN S. OCHE
OFFICE OF THE
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:

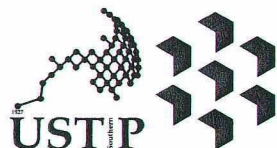
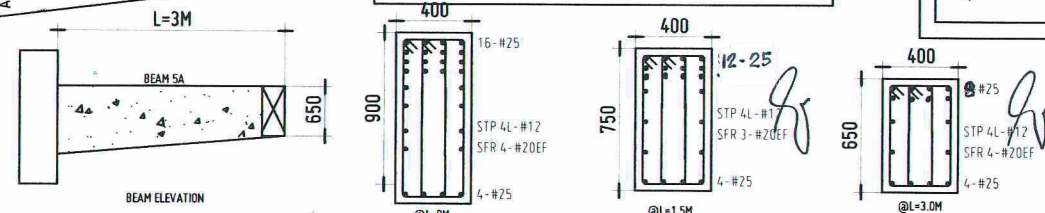
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

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DRAWN BY:
DATE DRAWN:
FNT:

S6



THIRD FLOOR PLAN
SCALE: 1:120 MTS



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ENGR. ERNESTO CH. QUIJOTE
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PRC NO. 004942 PTR NO. 116769 A
DATE 01-28-2025
TIN NO. 152-320-743 PLACE EL SALVADOR CITY

PROJECT
ESTABLISHMENT OF
THREE-STOREY SMART COMPUTING ACADEMIC
BUILDING, PHASE 1, OROQUIETA CAMPUS
LOCATION
USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
OWNER
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
ENGR. GRACE C. BABA
DIRECTOR, INFRASTRUCTURE PLANNING
& FACILITIES DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
DR. GLORIMER L. CLARIN
DIRECTOR, USTP OROQUIETA

RECOMMENDING APPROVAL:
ATTY. JONATHAN S. OCHE
OFFICE OF THE
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
DRAWN BY:
DATE DRAWN:
FNT:

S7

FIRE EXIT
ROOF BEAM

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

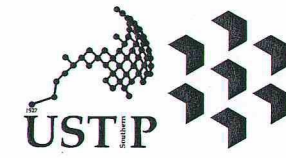
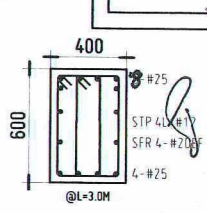
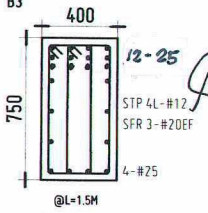
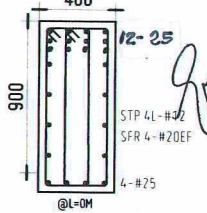
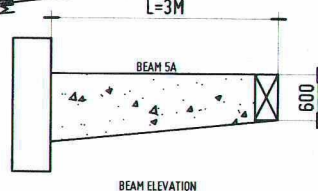
MUNICIPALITY OF ALUBUID
PROVINCE OF MISAMIS OCCIDENTAL
Approved by:

NOTE:
ALL ROOFDECK SLABS SHALL BE
APPLIED WITH
ELASTOMERIC (LIQUID)
WATERPROOFING REFER TO DPWH
ITEM 1016

SEE STAIR
REINFORCEMENT
DETAILS

ROOF/DECK PLAN

SCALE: 1:120 MTS



REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
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WEBSITE: www.ustp.edu.ph

ENGR. ERNESTO CH. QUIJOTE
CIVIL/STRUCTURAL ENGINEER
PROJECT: ESTABLISHMENT OF
THREE-STORY SMART COMPUTING ACADEMIC
BUILDING, PHASE 1, OROQUIETA CAMPUS
LOCATION: USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
ENGR. GRACE C. BABA
DIRECTOR, INFRASTRUCTURE PLANNING
& FACILITIES DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
DR. GLORIMER L. CLARIN
DIRECTOR, USTP OROQUIETA

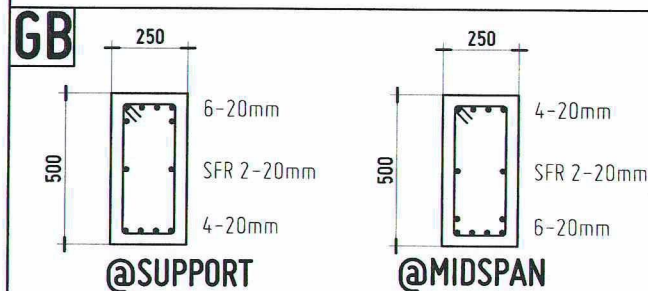
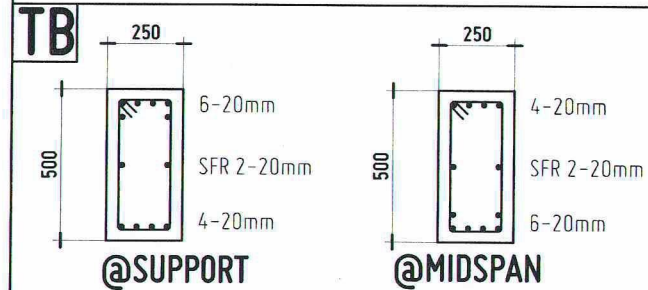
RECOMMENDING APPROVAL:
ATTY. JONATHAN S. OCHE
OFFICE OF THE
VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

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DATE DRAWN:
FNT:

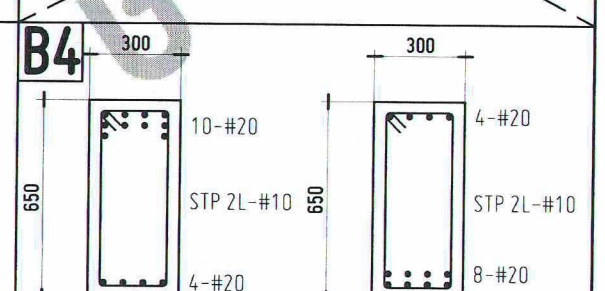
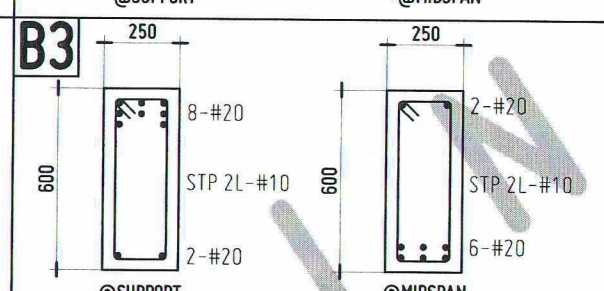
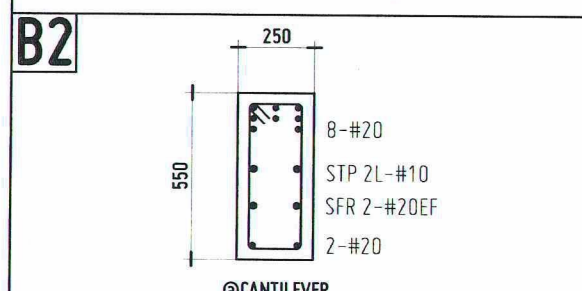
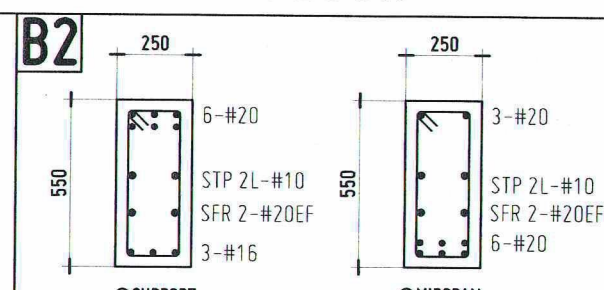
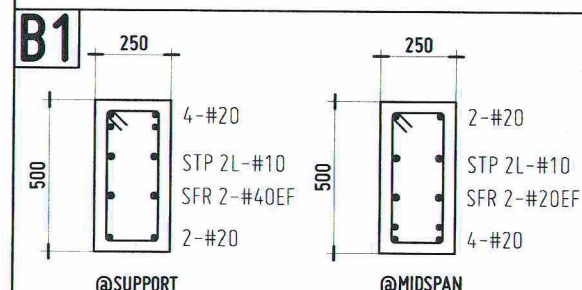
S8

FOUNDATIONS & GROUND



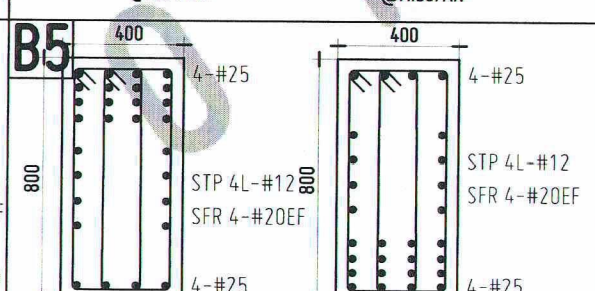
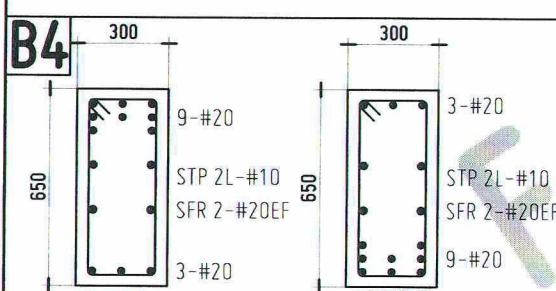
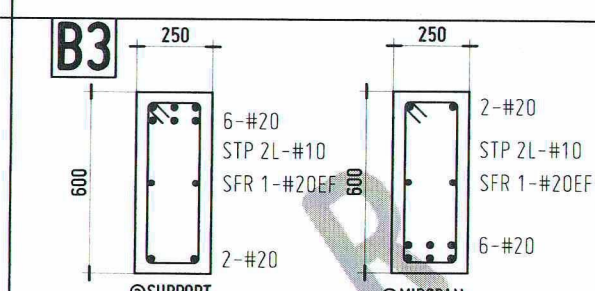
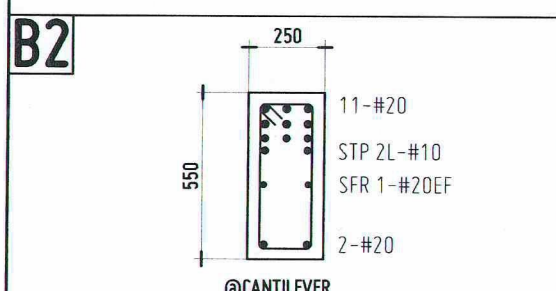
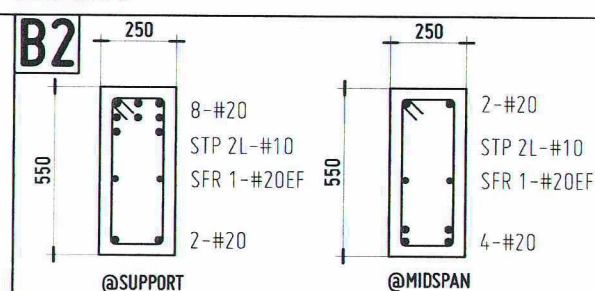
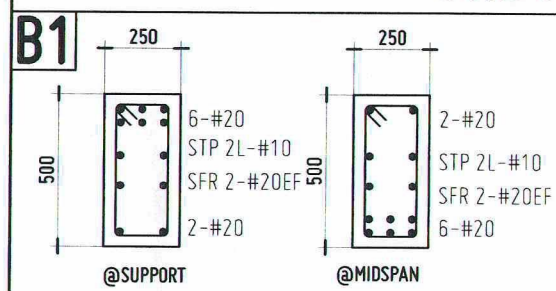
10 MM Ø STIRRUPS SPACED @ 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM

2ND FLOOR

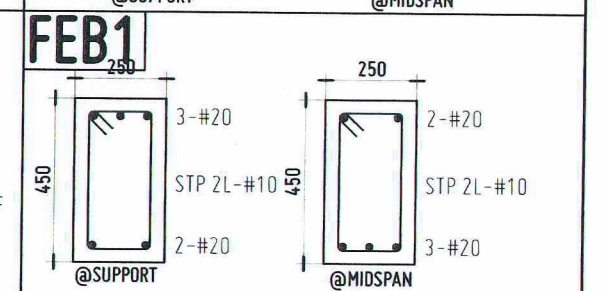
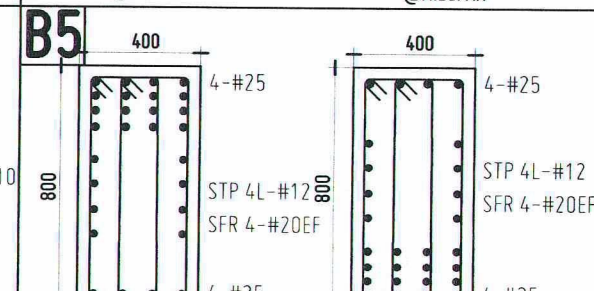
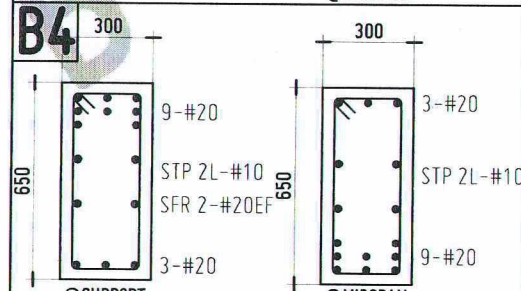
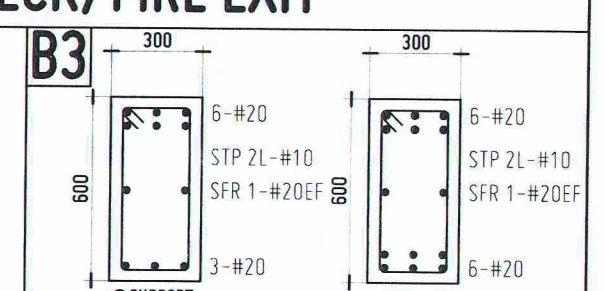
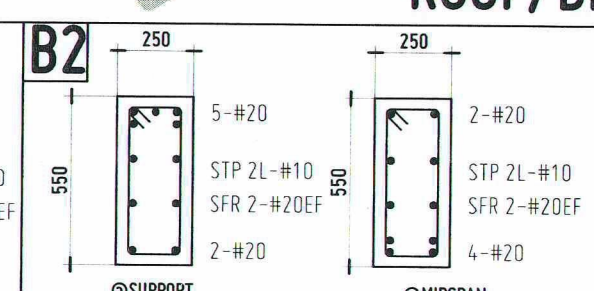
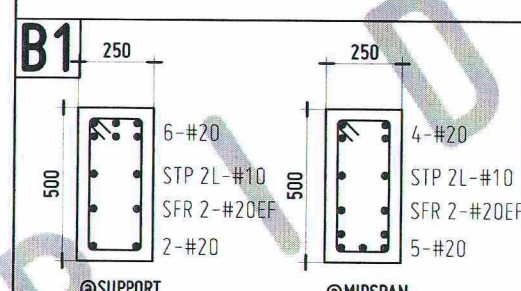


10 MM Ø STIRRUPS SPACED @ 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM

3RD FLOOR



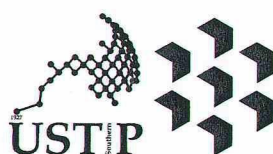
ROOF/DECK/FIRE EXIT



10 MM Ø STIRRUPS SPACED @ 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM

FOUNDATION TO ROOF FLOOR BEAM DETAILS

SCALE: 1:25 MTS



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ENGR. ERNESTO C. QUIJOTE
CIVIL/STRUCTURAL ENGINEER
PRC NO. 0044940 PTR NO. 1167689 A
DATE 01-28-2026
TIN NO. 152-320-743 PLACE EL SALVADOR CITY

PROJECT
ESTABLISHMENT OF
THREE-STORY SMART COMPUTING ACADEMIC
BUILDING, PHASE 1, OROQUIETA CAMPUS
LOCATION
USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
OWNER
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
ENGR. GRACE C. BABA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITIES DEVELOPMENT OFFICE

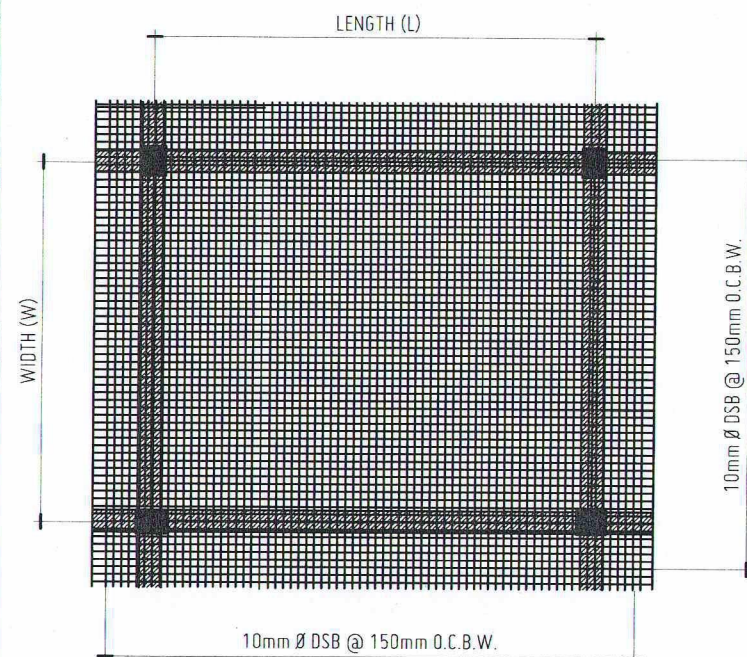
RECOMMENDING APPROVAL:
DR. GLORIMER L. CHARIN
DIRECTOR, USTP OROQUIETA

RECOMMENDING APPROVAL:
ATTY. JONATHAN S. OCHE
OFFICE OF THE
VP FOR ADMINISTRATION & LEGAL AFFAIRS

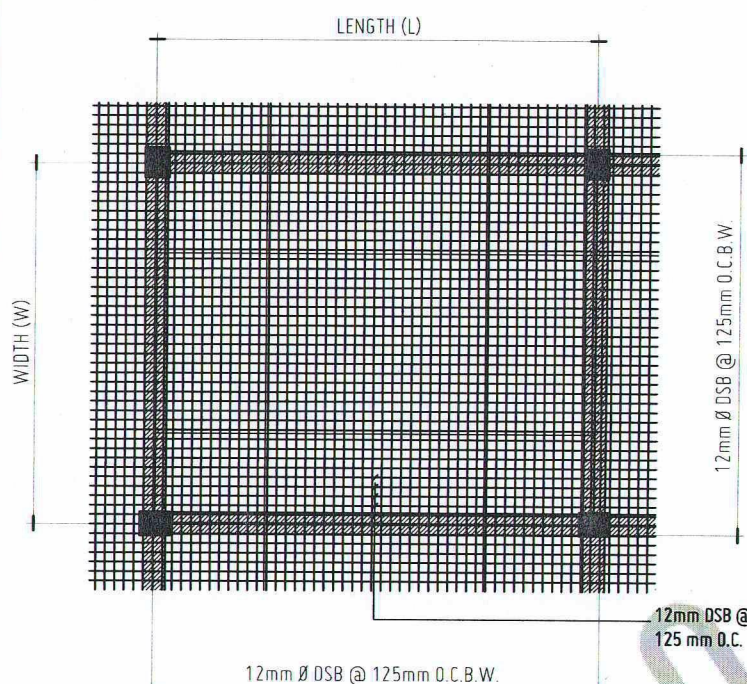
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
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DATE DRAWN:
PWT:

S9

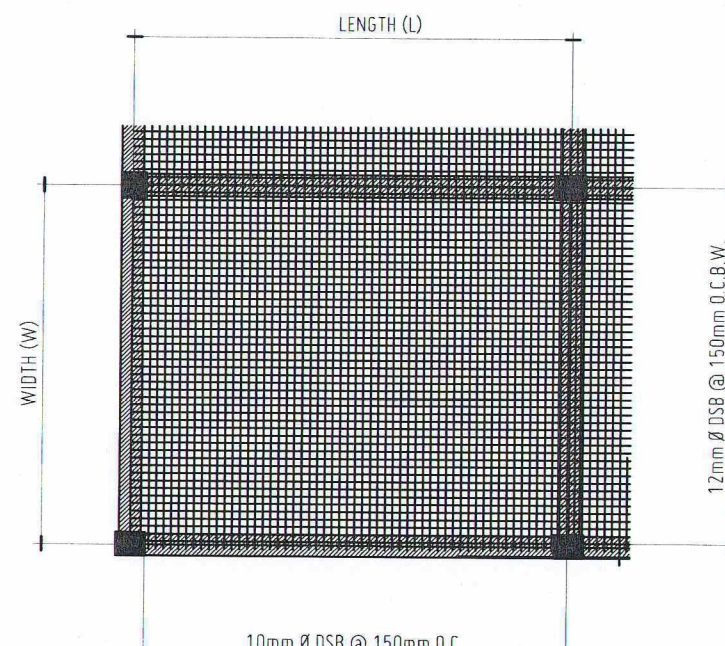


TOP BAR REINFORCEMENT
t=150mm

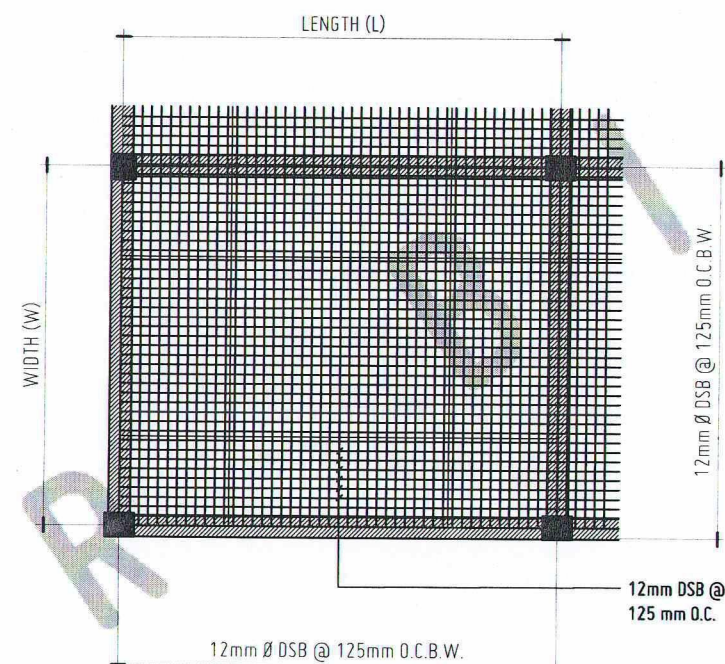


BOTTOM BAR REINFORCEMENT
t=150mm

SLAB-1 (S1) REINFORCEMENT
SCALE 1:130 MTS

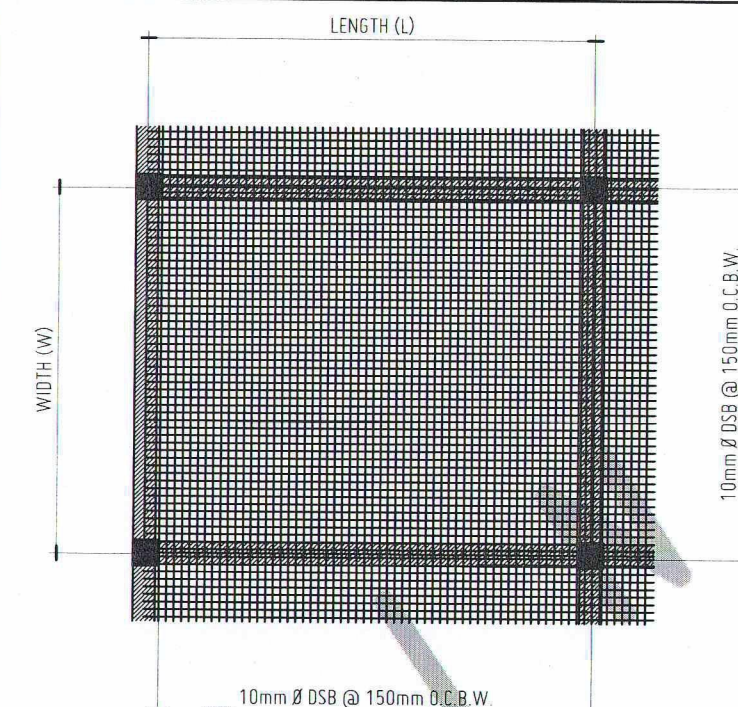


TOP BAR REINFORCEMENT
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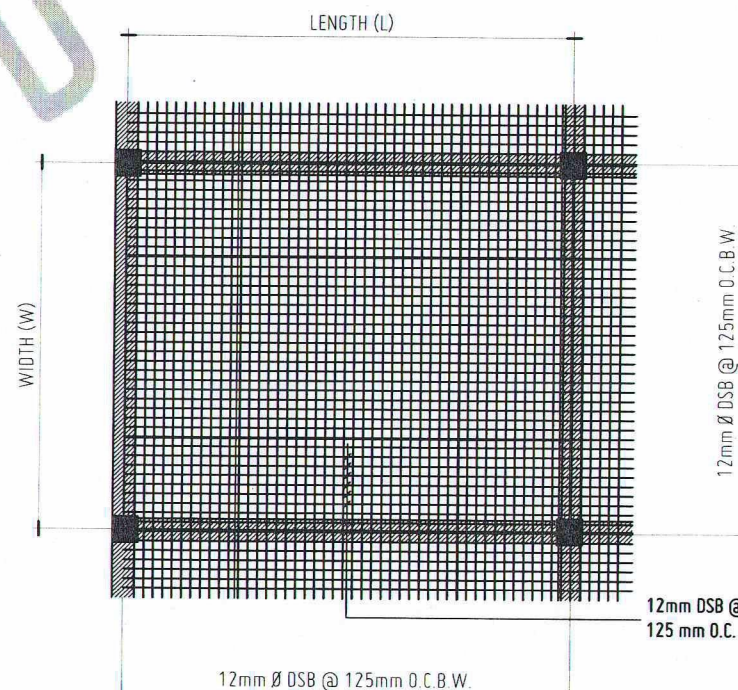


BOTTOM BAR REINFORCEMENT
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SLAB-2 (S2) REINFORCEMENT
SCALE 1:130 MTS

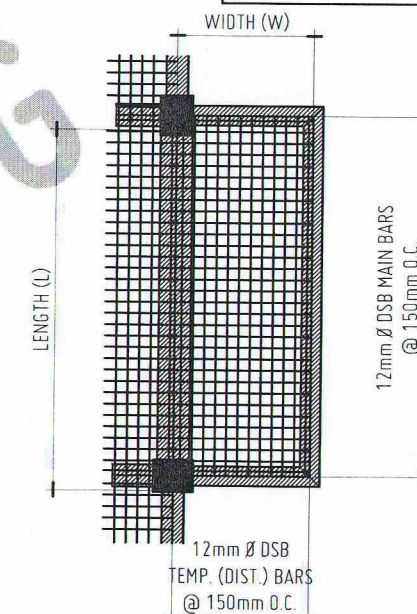


TOP BAR REINFORCEMENT
t=150mm

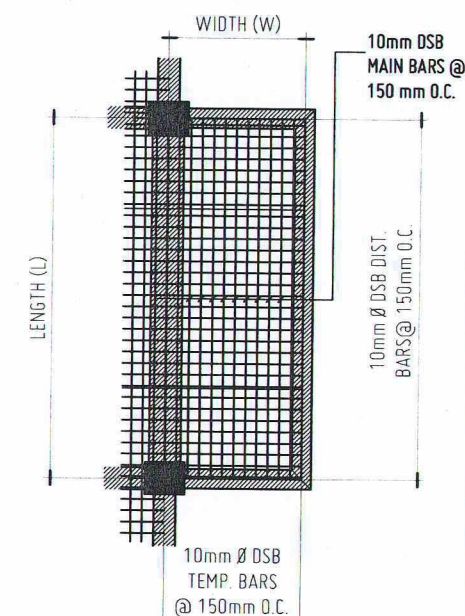


BOTTOM BAR REINFORCEMENT
t=150mm

SLAB-3 (S3) REINFORCEMENT
SCALE 1:130 MTS

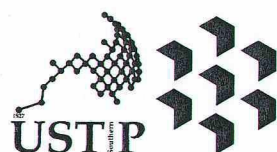


TOP BAR REINFORCEMENT
t=150mm



BOTTOM BAR REINFORCEMENT
t=150mm

SLAB-4 (S4) REINFORCEMENT
SCALE 1:130 MTS



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ENGR. ERNESTO CH. QUIJOTE

CIVIL/STRUCTURAL ENGINEER

PRC NO. 0044340 PTR NO. 1167669 A

DATE 01-28-2020

TIN NO. 152-320-7433 PLACE EL SALVADOR CITY

PROJECT

ESTABLISHMENT OF
THREE-STOREY SMART COMPUTING ACADEMIC
BUILDING, PHASE 1, OROQUIETA CAMPUS

LOCATION

USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL

OWNER

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RECOMMENDING APPROVAL:

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DIRECTOR, USTP OROQUIETA

RECOMMENDING APPROVAL:

ATTY. JONATHAN S. OCHE

OFFICE OF THE
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:

DR. AMBROSIO B. CULTURA II

PRESIDENT, USTP SYSTEM

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DRAWN BY:

DATE DRAWN:

FWT:

S10