GENERAL NOTES

1. IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
2. IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTIONS, LOCATION OF DRAINS ETC.
3. IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS, AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT.
4. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI.318 95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION (9th EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
5. ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
6. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
7. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT'S AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
9. ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL DESIGNER.

NOTES ON CONCRETE MIXES & PLACING

1. ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS.

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGGREGATE	MAX. SLUMP
ALL OTHERS, INCLUDING SUSPENDED SLABS,	4000 PSI (27.6 MPa)	20mm	100mm
COLUMNS	4000 PSI (27.6 MPa)	20mm	100mm
BEAMS, SLABS	4000 PSI (27.6 MPa)	20mm	100mm
SLAB ON FILL	4000 PSI (27.6 MPa)	20mm	100mm

2. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.
   - SUSPENDED SLABS ---------- 20mm
   - SLAB ON GRADE ---------- 40mm
   - WALLS ABOVE GRADE ---------- 25mm
   - BEAM STIRRUPS AND COLUMN TIES ---------- 40mm
   - WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS ---------- 50mm
   - WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH ---------- 75mm
3. CONCTRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HAND LING OR PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
4. NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.
5. ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
6. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
7. STRIPPING OF FORMS AND SHORES:
   - FOUNDATION ---------- 24 HRS.
   - SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED ---------- 8 DAYS
   - WALLS ---------- 21 DAYS
   - BEAMS ---------- 14 DAYS
   - COLUMNS ---------- 21 DAYS
8. THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.
9. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

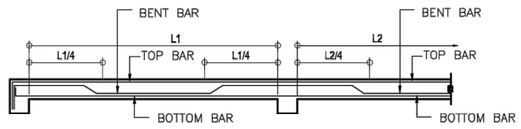
1. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 96 KPa (2000 psf). CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
2. FOOTING SHALL REST AT LEAST 1500mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
3. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

NOTES ON REINFORCEMENT

1. UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
   - A. FOOTINGS, FOOTING BEAMS AND GIRDERS ------- fy = 275 MPa (40,000 psi)
   - B. COLUMNS AND SHEAR WALLS ---------- fy = 275 MPa (40,000 psi)
   - C. BEAMS AND GIRDER ---------- fy = 275 MPa (40,000 psi)
   - D. NON-LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARAPETS, CATCH BASIN, SIDE WALK. ---------- fy = 227.5 MPa (33,000 psi)
2. ALL REINFORCING BARS SIZE 10mm OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. BARS SMALLER THAN 10mm MAY BE PLAIN.
3. SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

NOTES ON CONCRETE SLABS

1. ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
2. UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:

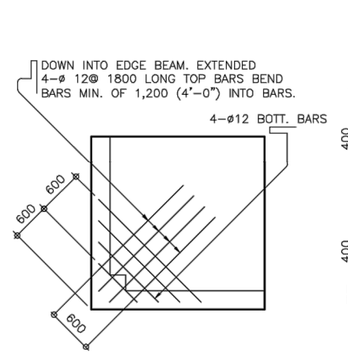


TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

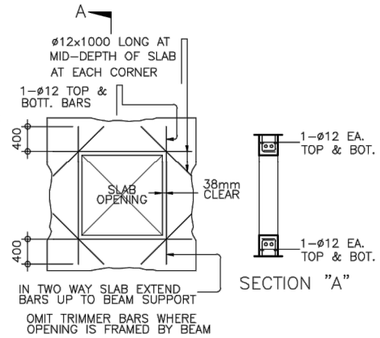
3. IF SLABS ARE REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS
4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 x GROSS CROSS-SECTIONAL AREA (Ag) OF THE SLAB (SEE SCHEDULE BELOW)

SCHEDULE OF MINIMUM SLAB REINFORCEMENT	
THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm ø @ 250mm EACH WAY
125 mm	10 mm ø @ 225mm EACH WAY
150 mm	10 mm ø @ 185mm EACH WAY
175 mm	10 mm ø @ 150mm EACH WAY
200 mm	10 mm ø @ 140mm EACH WAY

5. UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm ø AT 250mm O.C EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METER APART
6. PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.
7. CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mmø STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS



TYPICAL CORNER SLAB DETAIL



TYPICAL SLAB OPENING DET.

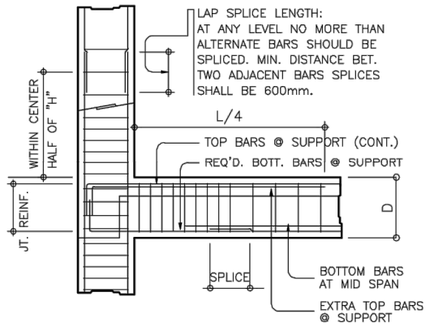
NOTES ON COLUMNS

1. PROVIDE EXTRA SETS OF TIES AT 100mm O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/6 THE CLEAR HEIGHT OF COLUMN OR 450mm.
2. COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH THE MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
3. WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10mm TIES AT 100mm SHALL BE PROVIDED THRU OUT THE OFFSET REGION.
4. UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 BAR DIAMETERS. WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.

TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED:	REVIEWED:	SUBMITTED:	RECOMMENDING APPROVAL:	APPROVED:	SET NO.	SHEET N
	CONSTRUCTION (COMPLETION) OF	GENERAL CONSTRUCTION NOTES	MARLON ROY M. BAUTISTA ENGINEERING AIDE (A)						

PREPARED BY:	ENGINEER:	R.A.9266	PROJECT TITLE:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	PROJECT ID NO.	SHEET NO.
PPIDO (PHYSICAL PLANT AND INFRASTRUCTURE DEVELOPMENT OFFICE)	ENGR. GABINO C. HILVANO, DTM ENGINEER PRC NO. DT. ISS. PTR. NO. PL. ISS.	DRAWINGS AND SPECIFICATION DULY SIGNED, STAMPED AND SEALED, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY AND DOCUMENT OF THE ARCHITECT WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT TO DUPLICATE OR MAKE COPIES OF THIS DOCUMENT OF THE WHOLE OR IN PART.	CONSTRUCTION OF THREE (3) STOREY EVSU BURAUEN ACADEMIC BUILDING LOCATION: EVSU BURAUEN CAMPUS, BURAUEN LEYTE	AR. BERNIE G. TUDIO, UAP Planning Officer III	DR. DENNIS C. DE PAZ University President	AS SHOWN	REV. No.: ____ DATE SUBMITTED:	S 1 9



TYP. DETAIL OF COL. LAP SPLICE
& EXT. GIRDER TO COL. CONNECT.

NOTES ON BEAMS AND GIRDERS

1. UNLESS , OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIDER AT LEAST 6mmø FOR EVERY 4.50M OF SPAN , EXCEPT CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 20mm FOR EVERY 3.0M OF FREE SPAN.
2. TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B–1.

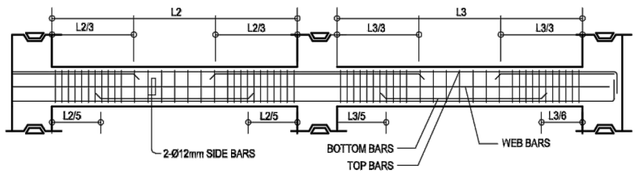


FIG. B–1

TABLE 'A'
TENSION BARS
EMBEDMENT LENGTHS AND
LAPPED SPLICED IN MILLIMETERS

BAR SIZE (DEFORMED)	fc'= 20.7MPa(3000psi)		fc'= 27.6MPa(4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm ø	300	300	300	300
12mm ø	300	300	300	300
16mm ø	300	400	300	400
20mm ø	400	550	350	500
25mm ø	600	800	550	750
28mm ø	750	1000	650	850
32mm ø	950	1300	850	1100

NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2

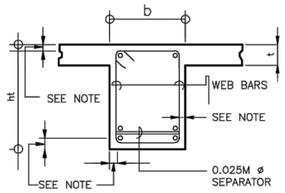
TABLE 'B'
COMPRESSION BARS
EMBEDMENT LENGTHS AND
LAPPED SPLICED IN MILLIMETERS

BAR SIZE (DEFORMED)	fc'= 20.7MPa(3000psi)		fc'= 27.6MPa(4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm ø	225	300	200	300
12mm ø	275	300	250	300
16mm ø	350	400	325	400
20mm ø	450	500	475	500
25mm ø	550	625	550	625
28mm ø	625	675	625	675
32mm ø	700	775	700	775

NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2
VALUES GIVEN ABOVE CAN ALSO BE USED FOR COLUMNS.

3. IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.

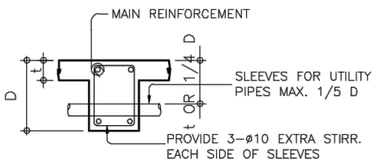
4. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mmø BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
5. MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIG. B–2 UNLESS SPECIFIED ELSEWHERE.



NOTE 1

20 mm CLEAR FOR JOIST
40 mm CLEAR FOR BEAMS
AND GIRDERS

FIG. B–2



TYP. DET. FOR SLEEVES
THRU CONCRETE BEAM

FIG. B–3

6. WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINF–FORCING BAR SHALL BE SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.
7. GENERALLY NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR, SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B'. WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125 % OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

NOTES ON CONCRETE HOLLOW BLOCK WALLS

1. UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
2. PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4–12mm WITH 6mmø TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

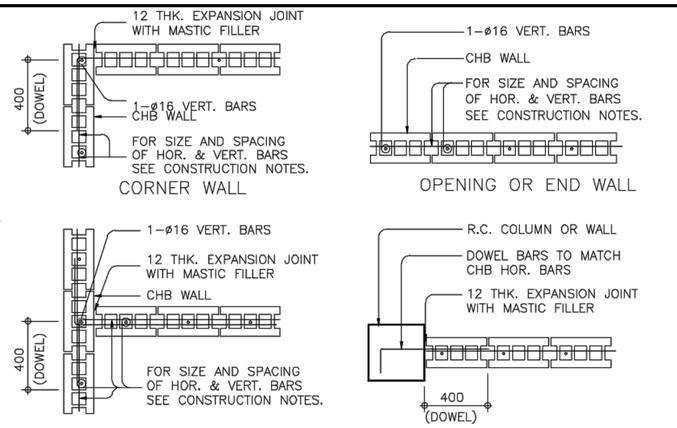
SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT

BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
75 mm	10mmø @ 600mm O.C.	10mmø @ 600mm O.C.	A. MINIMUM LAPS AT SPLICE = 0.25M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOR. REINFORCEMENTS SHALL BE PROVIDED
125 mm	10mmø @ 600mm O.C.	10mmø @ 600mm O.C.	
150 mm	10mmø @ 600mm O.C.	10mmø @ 600mm O.C.	
200 mm	12mmø @ 600mm O.C.	12mmø @ 600mm O.C.	

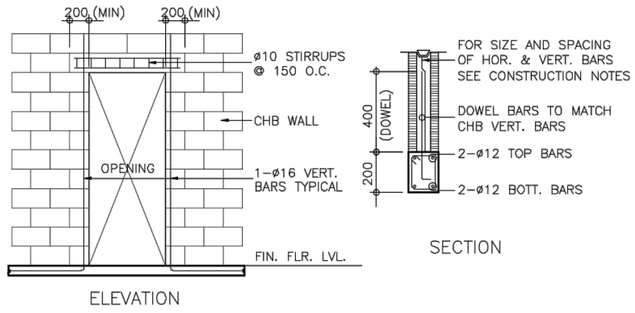
REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

LINTELS IN BLOCK WALLS

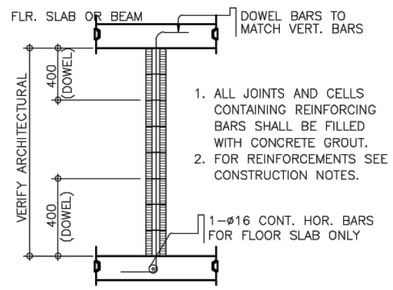
CLEAR SPAN ("L")	TOTAL LENGTH (L+0.40M)	MIN. fc' (MPa)	HEIGHT OF LINTEL (MM)	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20M 150M 1.80M	1.60M 1.90M 2.20M	14.0	200 200 200	1–ø10 1–ø10 1–ø12	1–ø10 1–ø10 1–ø10	ø6mm @ 200mm ø6mm @ 200mm ø6mm @ 200mm
2.10M 2.40M 2.70M	2.50M 2.90M 3.10M	17.0	250 250 250	1–ø12 1–ø12 1–ø16	1–ø10 1–ø10 1–ø12	ø6mm @ 200mm ø6mm @ 200mm ø10mm @ 200mm
3.00 3.30 3.60	3.40M 3.70M 4.00	20.0	300 300 300	1–ø16 1–ø16 1–ø20	1–ø12 1–ø12 1–ø12	ø10mm @ 200mm ø10mm @ 200mm ø10mm @ 200mm



TYPICAL CONNECTION DETAIL OF MASONRY WALL



TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



TYP. SECTION OF MASONRY
PARTITION REINFORCEMENTS

REPUBLIC OF THE PHILIPPINES

PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED:	REVIEWED:	SUBMITTED:	RECOMMENDING APPROVAL:	APPROVED:	SET NO.	SHEE
		MARLON ROY M. BAUTISTA						

EASTERN VISAYAS STATE UNIVERSITY 1907

PREPARED BY:	ENGINEER:	R.A.9266	PROJECT TITLE:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	PROJECT ID NO.	SHEET NO.
PPIDO (PHYSICAL PLANT AND INFRASTRUCTURE DEVELOPMENT OFFICE)	ENGR. GABINO C. HILVANO, DTM ENGINEER PRC NO. ____ DT. ISS. ____ PTR. NO. ____ PL. ISS. ____	DRAWINGS AND SPECIFICATION DULY SIGNED, STAMPED AND SEALED, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY AND DOCUMENT OF THE ARCHITECT WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT TO DUPLICATE OR MAKE COPIES OF THIS DOCUMENT OF THE WHOLE OR IN PART.	CONSTRUCTION OF THREE (3) STOREY EVSU BURAUEN ACADEMIC BUILDING LOCATION: EVSU BURAUEN CAMPUS, BURAUEN LEYTE	**AR. BERNIE C. TUDIO, UAP** Planning Officer III	**DR. DENNIS C. DE PAZ** University President	AS SHOWN	REV. No.: ____ DATE SUBMITTED:	S 29

A. CODES AND STANDARDS

1. GOVERNING CODES

ACI 318M-14	BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE
UBC 1997 EDITION	UNIFORM BUILDING CODE
NSCP 2015 EDITION	NATIONAL STRUCTURAL CODE OF THE PHILIPPINES, VOLUME I
AISC 9TH EDITION	MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, AMERICAN INSTITUTE OF STEEL CONSTRUCTION

2. GOVERNING STANDARDS

ASTM A36	STRUCTURAL STEEL
ASTM 611	STEEL SHEET, CARBON, COLD-ROLLED STRUCTURAL ALLOY
ASTM 615 / PNS 49	SPECIFICATION FOR STEEL BARS FOR STEEL REINFORCEMENT
ASTM C33 / PNS 18	STANDARD SPECIFICATION FOR CONCRETE AGGREGATES
ASTM C39	STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS
ASTM C94 / PNS 46	STANDARD SPECIFICATION FOR READY-MIXED CONCRETE
ASTM C150 / PNS 07	STANDARD SPECIFICATION FOR PORTLAND CEMENT
PNS 16	PHILIPPINE NATIONAL STANDARD FOR CONCRETE HOLLOW BLOCKS
SG 671	SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS BY AMERICAN IRON AND STEEL INSTITUTE

B. DESIGN LOADS

1. ROOF DEAD LOAD

ROOF SLAB	2,800 PA
M.E.P.	100 PA
CEILING	100 PA
ALL FIXTURES	100 PA

2. ROOF LIVE LOAD

SLAB	600 PA

3. FLOOR DEAD LOAD

SLAB	2,800 PA
FLOOR TILES	1,100 PA
MASONRY WALLS (150mm CHB)	3,110 PA (PER M. HEIGHT)
MASONRY WALLS (100mm CHB)	2,980 PA (PER M. HEIGHT)

4. FLOOR LIVE LOAD

ROOMS	1,900 PA
OFFICE	2,400 PA
CORRIDOR	3,800 PA

5. WIND LOAD

A. BASIC WIND SPEED (REFER TO FIGURE 207 A.5-1C OF NSCP 2015)

DESIGN WIND SPEED 310 KPH

B. EXPOSURE

EXPOSURE B — HAS TERRAIN WITH BUILDINGS, FOREST OR SURFACE IRREGULARITIES, 6.0 METERS OR MORE IN HEIGHT, COVERING AT LEAST 20 % OF THE AREA EXTENDING 1.50 KM OR MORE FROM SITE.

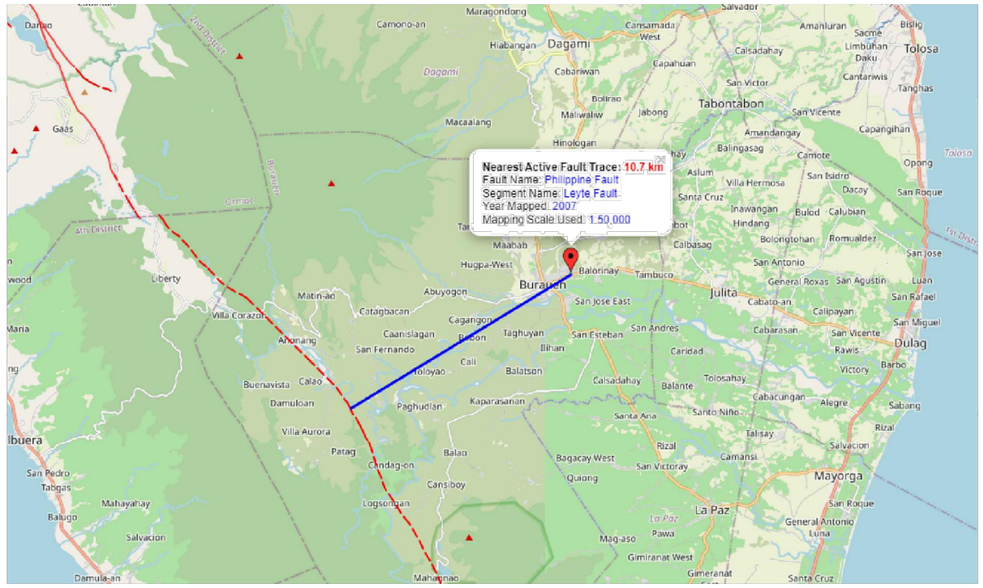
C. BUILDING CATEGORY

BUILDING CLASSIFICATION CATEGORY — CATEGORY I (ESSENTIAL FACILITIES)

6. EARTHQUAKE LOAD

V = (2.5Ca * I * W) / R

SEISMIC ZONE, Z	=	0.40
IMPORTANCE FACTOR, I	=	1.50
SEISMIC RESPONSE MODIFICATION FACTOR, R	=	8.50
NEAR SOURCE FACTOR, Na	=	1.00
NEAR SOURCE FACTOR, Nv	=	1.00
SOIL PROFILE TYPE	=	4



SEISMIC FAULT DISTANCE

C. MATERIAL SPECIFICATIONS

A. CONCRETE

ELEMENT	28 DAYS COMPRESSIVE STRENGTH, fc'	MAX. SIZE OF AGGREGATE	MAX. SLUMP
ALL OTHERS, INC. SUSPENDED SLABS	21 MPa	20 MM	100 MM
FOOTINGS	21 MPa	20 MM	100 MM
COLUMNS	21 MPa	20 MM	100 MM
BEAMS, STAIRS	21 MPa	20 MM	100 MM
SLAB ON FILL / GROUND	21 MPa	20 MM	100 MM

B. REINFORCING STEEL

ELEMENT	YIELD STRENGTH, fy MAIN	SECONDARY
ALL OTHERS, INC. SUSPENDED SLABS	230 MPa	
FOOTINGS	275 MPa	230 MPa
COLUMNS	275 MPa	230 MPa
BEAMS, STAIRS	275 MPa	230 MPa
SLAB ON FILL / GROUND	230 MPa	

C. SOIL BEARING CAPACITY

SOIL BEARING CAPACITY = 135 KPa

EASTERN VISAYAS STATE UNIVERSITY 1907

PREPARED BY:

PPIDO
(PHYSICAL PLANT AND INFRASTRUCTURE DEVELOPMENT OFFICE)

ENGINEER:

ENGR. GABINO C. HILVANO, DTM
ENGINEER

PRC NO.		DT. ISS.	
PTR. NO.		PL. ISS.	

PROJECT TITLE:

CONSTRUCTION OF THREE (3) STOREY EVSU BURAUEN ACADEMIC BUILDING

LOCATION: EVSU BURAUEN CAMPUS, BURAUEN LEYTE

RECOMMENDING APPROVAL:

ATY. BERNIE G. TUDIO, UAP
Planning Officer III

APPROVED BY:

DR. DENNIS C. DE PAZ
University President

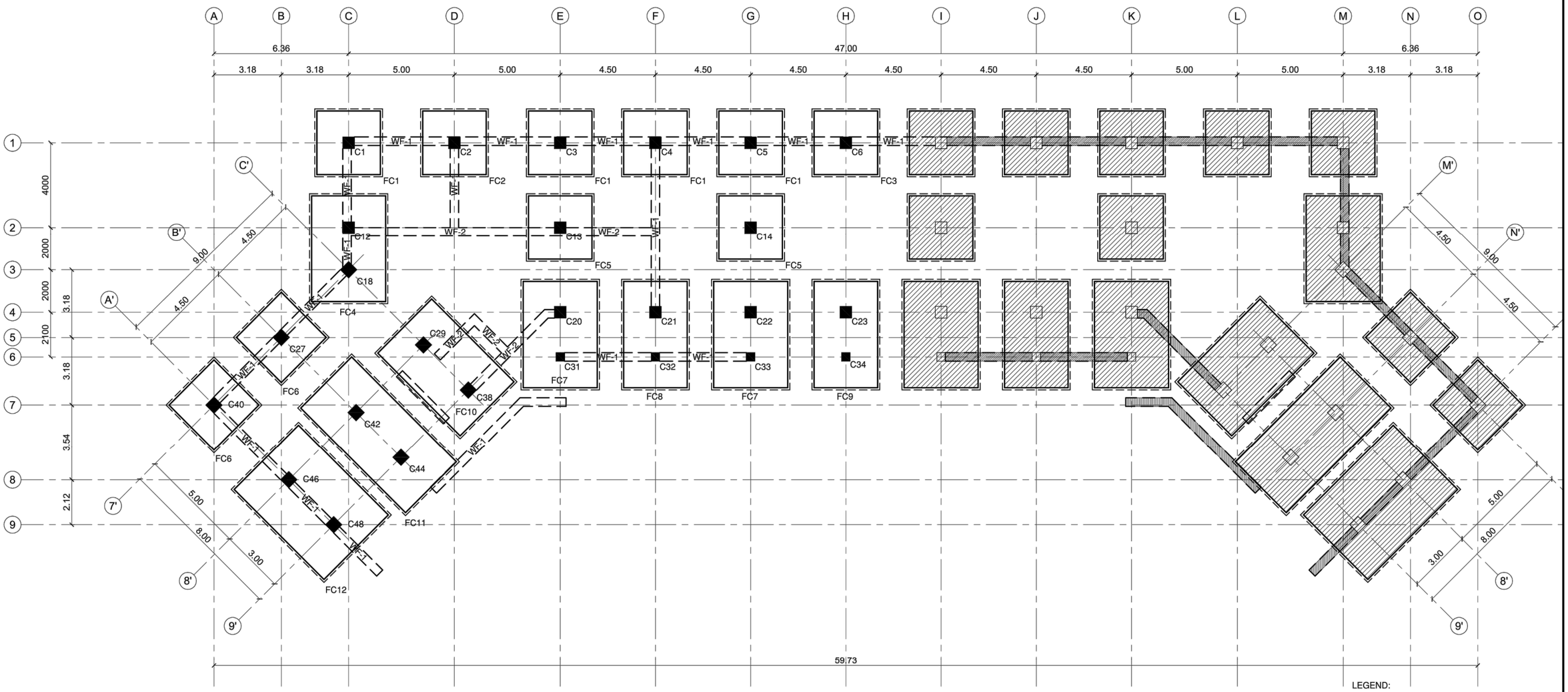
SHEET CONTENT: AS SHOWN

PROJECT ID NO.

REV. No.: _____

DATE SUBMITTED:

SHEET NO. S 39



FOUNDATION PLAN

SCALE 1 : 115

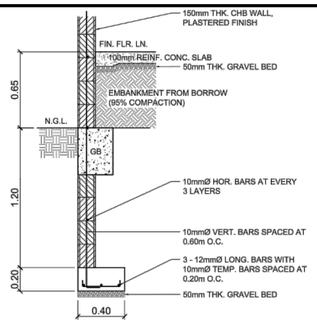
EASTERN VISAYAS STATE UNIVERSITY 1907	PREPARED BY: **PPIDO** (PHYSICAL PLANT AND INFRASTRUCTURE DEVELOPMENT OFFICE)	ENGINEER: ENGR. GABINO C. HILVANO, DTM ENGINEER; PRC NO. / DT. ISS.; PTR. NO. / PL. ISS.	R.A.9266 DRAWINGS AND SPECIFICATION DULY SIGNED, STAMPED AND SEALED, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY AND DOCUMENT OF THE ARCHITECT WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT TO DUPLICATE OR MAKE COPIES OF THIS DOCUMENT OF THE WHOLE OR IN PART.	PROJECT TITLE: CONSTRUCTION OF THREE (3) STOREY EVSU BURAUEN ACADEMIC BUILDING; LOCATION: , EVSU BURAUEN CAMPUS, BURAUEN LEYTE	RECOMMENDING APPROVAL: **AR. BERNIE G. TUDIO, UAP** Planning Officer III	APPROVED BY: **DR. DENNIS C. DE PAZ** University President	SHEET CONTENT: AS SHOWN	PROJECT ID NO.; REV. No.: ; DATE SUBMITTED:	SHEET NO. S 4 9

FOOTING SCHEDULE (C21:Fy276)

FOOTING NUMBERS	COLUMN NUMBERS	FOOTING TYPE	DIMENSION			REINFORCEMENT				REMARKS
						BOTTOM		TOP		
			L	B	D1	ALONG X	ALONG Y	ALONG X	ALONG Y	
FC1	C1, C3, C4, C5,	Isolated	3000	3000	500	12 - 20mmØ	12 - 20mmØ	10 - 20mmØ	10 - 20mmØ	-
FC2	C2	Isolated	3000	3000	500	12 - 20mmØ	12 - 20mmØ	--	--	-
FC3	C6	Isolated	3000	3000	500	11 - 20mmØ	11 - 20mmØ	10 - 20mmØ	10 - 20mmØ	-
FC4	C12-C18	Combined	5000	3500	500	13 - 20mmØ	12 - 25mmØ	13 - 20mmØ	12 - 25mmØ	-
FC5	C13, C14	Isolated	3000	3000	500	13 - 20mmØ	13 - 20mmØ	--	--	-
FC6	C40, C27	Isolated	3000	3000	500	11 - 20mmØ	11 - 20mmØ	11 - 20mmØ	11 - 20mmØ	-
FC7	C20-C31 C22-C33	Combined	5000	3500	500	24 - 20mmØ	10 - 25mmØ	5 - 20mmØ	10 - 25mmØ	-
FC8	C21-C32	Combined	5000	3000	500	16 - 20mmØ	8 - 25mmØ	5 - 20mmØ	8 - 25mmØ	-
FC9	C23-C34	Combined	5000	3000	500	16 - 20mmØ	8 - 25mmØ	5 - 20mmØ	18 - 25mmØ	-
FC10	C29-C38	Combined	5500	3600	500	29 - 20mmØ	10 - 25mmØ	5 - 20mmØ	10 - 25mmØ	-
FC11	C42-C44	Combined	7000	3400	500	27 - 20mmØ	12 - 25mmØ	8 - 20mmØ	12 - 25mmØ	-
FC12	C46-C48	Combined	6000	4300	500	24 - 20mmØ	12 - 25mmØ	7 - 20mmØ	12 - 25mmØ	-

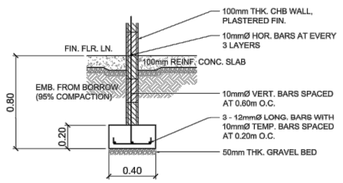
NOTES :

1. NO FOOTING SHOULD REST ON BACKFILLED MATERIALS. IF THE SPECIFIED DEPTHIS ON FILL, EXCAVATION CONTINUES UNTIL A SOUND OR GOOD LAYER IS REACH AS APPROVED BY THE SUPERVISING ENGINEER.
2. IN CASE THE SOIL CONDITION AT THE FOUNDING LEVEL OF THE FOOTING CAN'T BE ASCERTAINED, THE CONTRACTOR MUST CONSULT A SOIL EXPERT OR A GEOTHECNICAL ENGINEER AND EXPLORE THE SOIL CONDITION. SOIL BEARING PRESSURE OF THE AREA AS CONDUCTED BY SOLAR SURVEYING CORPORATION WAS FOUND TO BE AN AVERAGE OF 1,260 Psf (60.0 KPa) TO 2,940 Psf (140 KPa) BEARING CAPACITY.
3. FOUNDING LEVEL OF FOOTING LOCATED AT THE CISTERN AREA MAY BE ADJUSTED TO ACCOMODATE THE DEPTH REQUIREMENT OF THE CISTERN.



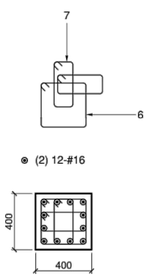
GRADE BEAM / WF-1 DETAILS

SCALE 1 : 30



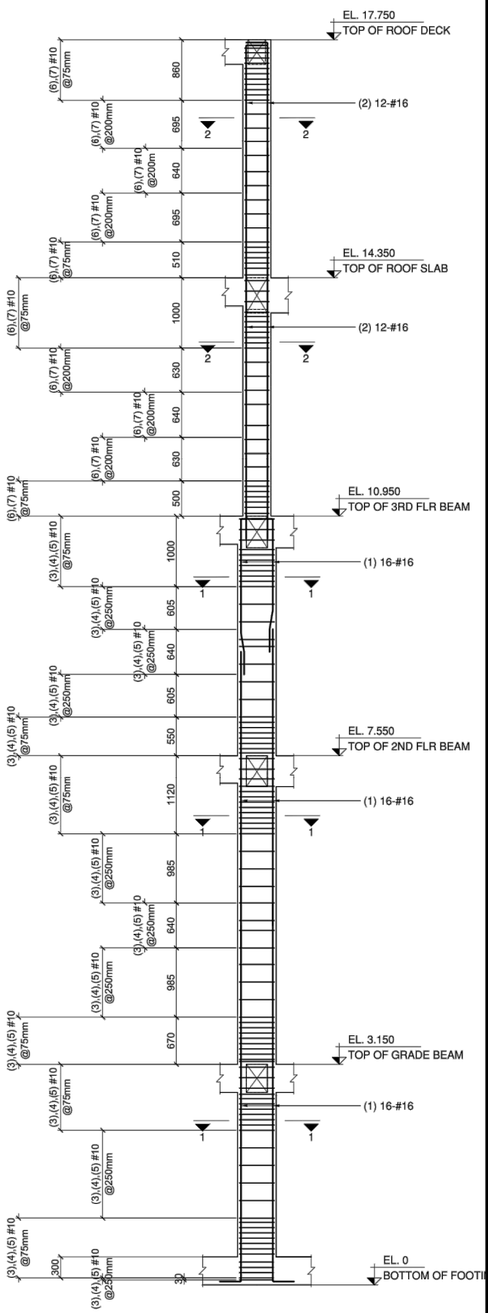
WF-2 DETAILS

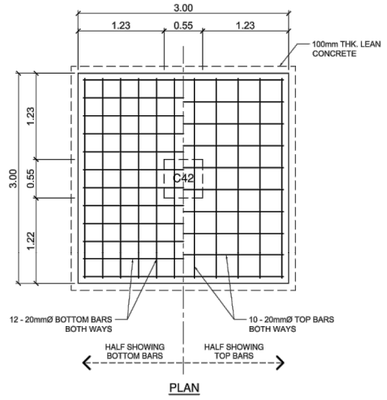
SCALE 1 : 30



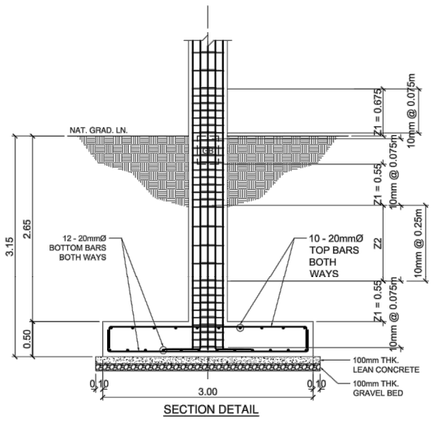
SECTION 2-2 (C19)

(SCALE 1:25)





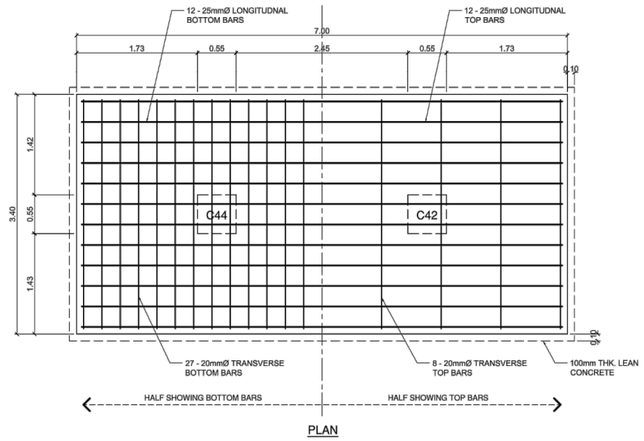
PLAN



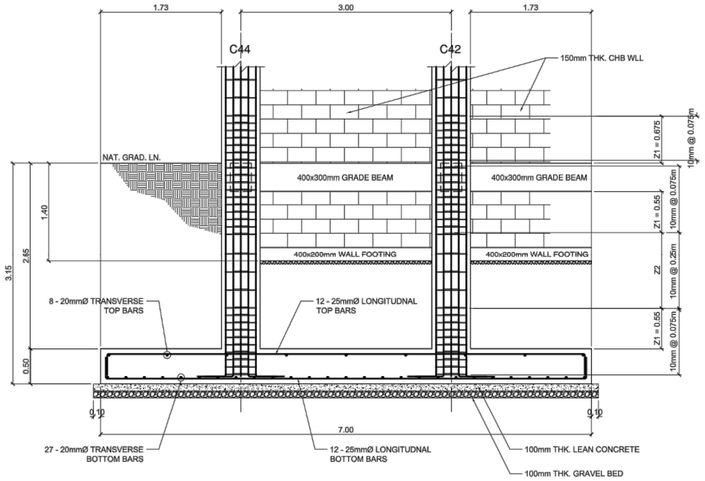
SECTION DETAIL

TYP. FOOTING DETAIL - FC1

SCALE 1 : 50

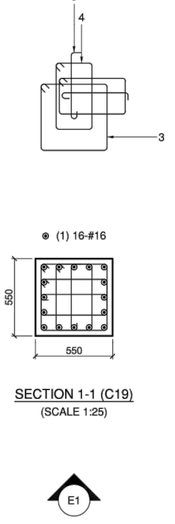


PLAN



TYP. FOOTING DETAIL - FC11

SCALE 1 : 50



SECTION 1-1 (C19)

(SCALE 1:25)

TYP. COLUMN DETAIL - C19

SCALE 1 : 50

PREPARED BY: **PPIDO** (PHYSICAL PLANT AND INFRASTRUCTURE DEVELOPMENT OFFICE)	ENGINEER: ENGR. FABINO C. HILVANO, DTM, ENGINEER; PRC NO. ____ DT. ISS. ____; PTR. NO. ____ PL. ISS. ____	R.A.9266 DRAWINGS AND SPECIFICATION DULY SIGNED, STAMPED AND SEALED, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY AND DOCUMENT OF THE ARCHITECT WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT TO DUPLICATE OR MAKE COPIES OF THIS DOCUMENT OF THE WHOLE OR IN PART.	PROJECT TITLE: CONSTRUCTION OF THREE (3) STOREY EVSU BURAUEN ACADEMIC BUILDING; LOCATION: EVSU BURAUEN CAMPUS, BURAUEN LEYTE	RECOMMENDING APPROVAL: **AR. BERNIE C. TUDIO, UAP** Planning Officer III	APPROVED BY: **DR. DENNIS C. DE PAZ** University President	SHEET CONTENT: AS SHOWN	PROJECT ID NO. ____ REV. No.: ____ DATE SUBMITTED: ____	SHEET NO. S 5 9

All columns: C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm

FOURTH FLOOR TO ROOF DECK

COLUMN MARKED	CONFINING ZONE	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	SECTION	BARS
C18, C19	510 MM	#10 @ 75	#10 @ 75	#10 @ 200	400 x 400	12-#16 (●#16)

FOURTH FLOOR TO PARAPET

COLUMN MARKED	CONFINING ZONE	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	SECTION	BARS
C1, C3, C4, C5, C6, C7, C8, C9, C11,	450 MM	#10 @ 50	---	#10 @ 125	250 x 250	4-#16 (●#16)
C2, C10	450 MM	#10 @ 50	---	#10 @ 125	250 x 250	4-#16 (●#16)
C12, C17	450 MM	#10 @ 50	---	#10 @ 75	250 x 250	4-#25 (●#25)

THIRD FLOOR TO FOURTH FLOOR

COLUMN MARKED	CONFINING ZONE	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	SECTION	BARS
C1, C3, C4, C5, C6, C7, C8, C9, C11,	500 MM	#10 @ 75	#10 @ 75	#10 @ 200	400 x 400	12-#16 (●#16)
C2, C10	500 MM	#10 @ 75	#10 @ 75	#10 @ 225	500 x 500	4-#20 + 12-#16 (●#20, ●#16)
C12, C17	495 MM	#10 @ 75	#10 @ 75	#10 @ 175	400 x 400	16-#16 (●#16)
C13, C14, C15, C16	500 MM	#10 @ 75	#10 @ 75	#10 @ 200	400 x 400	12-#16 (●#16)
C18, C19	500 MM	#10 @ 75	#10 @ 75	#10 @ 200	400 x 400	12-#16 (●#16)
C20, C26	510 MM	#10 @ 75	#10 @ 75	#10 @ 200	400 x 400	12-#16 (●#16)
C21, C23, C25	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	4-#20 + 12-#16 (●#20, ●#16)
C22, C24	510 MM	#10 @ 75	#10 @ 75	#10 @ 200	400 x 400	4-#20 + 8-#16 (●#20, ●#16)

SECOND FLOOR TO THIRD FLOOR

COLUMN MARKED	CONFINING ZONE	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	SECTION	BARS
C1, C3, C4, C5, C6, C7, C8, C9, C11,	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C2, C10	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	4-#20 + 12-#16 (●#20, ●#16)
C12, C17	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C13, C14, C15, C16	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C18, C19	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C20, C26	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C21, C23, C25	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	4-#20 + 12-#16 (●#20, ●#16)
C22, C24	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	4-#20 + 12-#16 (●#20, ●#16)

GRADE BEAM TO SECOND FLOOR

COLUMN MARKED	CONFINING ZONE	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	SECTION	BARS
C1, C3, C4, C5, C6, C7, C8, C9, C11,	670 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C2, C10	660 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	4-#20 + 12-#16 (●#20, ●#16)
C12, C17	670 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C13, C14, C15, C16	670 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C18, C19	670 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C20, C26	675 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C21, C23, C25	675 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	4-#20 + 12-#16 (●#20, ●#16)
C22, C24	675 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	4-#20 + 12-#16 (●#20, ●#16)

FOUNDATION TO GRADE BEAM

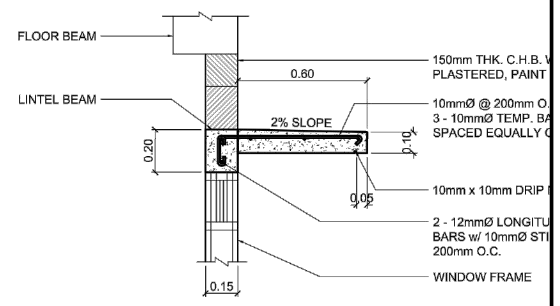
COLUMN MARKED	CONFINING ZONE	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	SECTION	BARS
C1, C3, C4, C5, C6, C7, C8, C9, C11,	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C2, C10	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	4-#20 + 12-#16 (●#20, ●#16)
C12, C17	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C13, C14, C15, C16	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C18, C19	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C20, C26	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	16-#16 (●#16)
C21, C23, C25	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	4-#20 + 12-#16 (●#20, ●#16)
C22, C24	550 MM	#10 @ 75	#10 @ 75	#10 @ 250	550 x 550	4-#20 + 12-#16 (●#20, ●#16)

COLUMN SCHEDULE

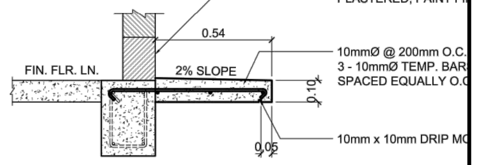
(SCALE 1:25)

NOTES:

1. BE = BOUNDARY ELEMENT AS PER NSCP C101 - 2015. PROVIDE CONFINING REINFORCEMENT ACROSS ENTIRE HEIGHT OF WALL IN THE BOUNDARY ELEMENT
2. Z1 = SPECIAL CONFINING ZONE AS PER NSCP C101 - 2015, Z2 = REMAINING ZONES AS PER NSCP C101 - 2015
3. (M) - STEEL GRADE FOR MAIN REINFORCEMENT
4. (S) - STEEL GRADE FOR SHEAR REINFORCEMENT/LINKS



SPOT DETAIL
WINDOW CANOPY
SCALE 1 : 20



SPOT DETAIL
SLAB CANOPY
SCALE 1 : 20

EASTERN VISAYAS STATE UNIVERSITY 1907	PREPARED BY: PPIDO (PHYSICAL PLANT AND INFRASTRUCTURE DEVELOPMENT OFFICE)	ENGINEER: ENGR. GABINO C. HILVANO, DTM ENGINEER; PRC NO.; DT. ISS.; PTR. NO.; PL. ISS.	R.A.9266 DRAWINGS AND SPECIFICATION DULY SIGNED, STAMPED AND SEALED, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY AND DOCUMENT OF THE ARCHITECT WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT TO DUPLICATE OR MAKE COPIES OF THIS DOCUMENT OF THE WHOLE OR IN PART.	PROJECT TITLE: CONSTRUCTION OF THREE (3) STOREY EVSU BURAUEN ACADEMIC BUILDING; LOCATION: : EVSU BURAUEN CAMPUS, BURAUEN LEYTE	RECOMMENDING APPROVAL: AR. BERNIE G. TUDIO, UAP Planning Officer III	APPROVED BY: DR. DENNIS C. DE PAZ University President	SHEET CONTENT: AS SHOWN; PROJECT ID NO.; REV. No.:; DATE SUBMITTED:; SHEET NO. S 6 9

FOURTH FLOOR TO ROOF DECK	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 510 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 510 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 200 400 x 400 #16 12-#16			C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 520 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 510 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 510 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 200 400 x 400 #16 12-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 510 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12
FOURTH FLOOR TO PARAPET			C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 450 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: --- Z2 LINKS: #10 @ 125 250 x 250 #16 4-#16					
THIRD FLOOR TO FOURTH FLOOR	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 500 x 500 #20, #16 4-#20 + 8-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 510 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12		C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 570 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 495 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 200 400 x 400 #16 12-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 495 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12
SECOND FLOOR TO THIRD FLOOR	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #20, #16 4-#20 + 12-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 510 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12		C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #16 16-#16
GRADE BEAM TO SECOND FLOOR	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 670 MM #10 @ 75 #10 @ 75 #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 670 MM #10 @ 75 #10 @ 75 #10 @ 250 550 x 550 #20, #16 4-#20 + 12-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 675 MM #10 @ 50 #10 @ 50 #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 675 MM #10 @ 75 #10 @ 75 #10 @ 200 400 x 400 #16 12-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 675 MM #10 @ 75 #10 @ 75 #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 670 MM #10 @ 75 #10 @ 75 #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 670 MM #10 @ 75 #10 @ 75 #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 670 MM #10 @ 75 #10 @ 75 #10 @ 250 550 x 550 #16 16-#16
FOUNDATION TO GRADE BEAM	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #20, #16 4-#20 + 12-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 525 MM Z1 MAIN LINK: #10 @ 50 Z1 OTHERS: #10 @ 50 Z2 LINKS: #10 @ 175 400 x 400 #16, #12 4-#16 + 8-#12	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 525 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 200 400 x 400 #16 12-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #16 16-#16	C21 : Fy276 (M) : Fy227 (S) , COVER = 40mm CONFINING ZONE = 550 MM Z1 MAIN LINK: #10 @ 75 Z1 OTHERS: #10 @ 75 Z2 LINKS: #10 @ 250 550 x 550 #16 16-#16
COLUMN MARKED	C27, C28	C29, C30	C31, C32, C33, C35, C36, C37	C34	C38, C39, C44, C45, C48, C49	C40, C41	C42,43	C46, C47

COLUMN SCHEDULE

(SCALE 1:25)

NOTES:

1. BE = BOUNDARY ELEMENT AS PER NSCP C101 - 2015. PROVIDE CONFINING REINFORCEMENT ACROSS ENTIRE HEIGHT OF WALL IN THE BOUNDARY ELEMENT
2. Z1 = SPECIAL CONFINING ZONE AS PER NSCP C101 - 2015, Z2 = REMAINING ZONES AS PER NSCP C101 - 2015
3. (M) - STEEL GRADE FOR MAIN REINFORCEMENT
4. (S) - STEEL GRADE FOR SHEAR REINFORCEMENT/LINKS

EASTERN VISAYAS STATE UNIVERSITY 1907

PREPARED BY: PPIDO (PHYSICAL PLANT AND INFRASTRUCTURE DEVELOPMENT OFFICE)

ENGINEER: ENGR. SABINO C. HILVANO, DTM
ENGINEER

PRC NO. | DT. ISS. | PTR. NO. | PL. ISS.

R.A 9266
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PROJECT TITLE: CONSTRUCTION OF THREE (3) STOREY EVSU BURAUEN ACADEMIC BUILDING

LOCATION: EVSU BURAUEN CAMPUS, BURAUEN LEYTE

RECOMMENDING APPROVAL: AR. BERNIE G. TUDIO, UAP
Planning Officer III

APPROVED BY: DR. DENNIS C. DE PAZ
University President

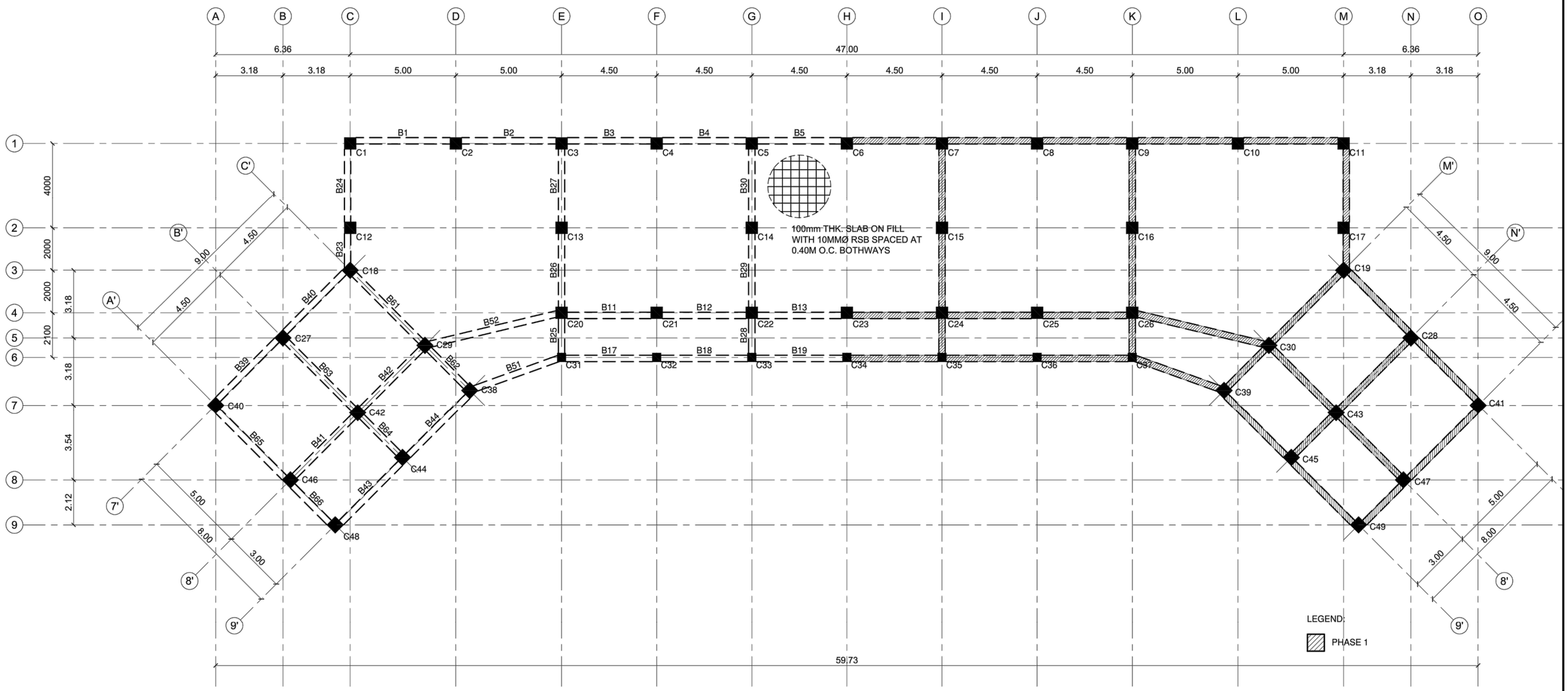
SHEET CONTENT: AS SHOWN

PROJECT ID NO.

REV. No.: ______

DATE SUBMITTED:

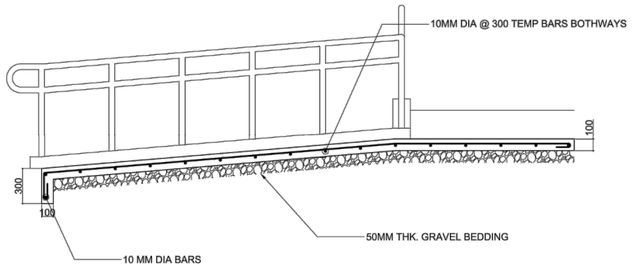
SHEET NO. S 7 | 9



GRADE BEAM PLAN

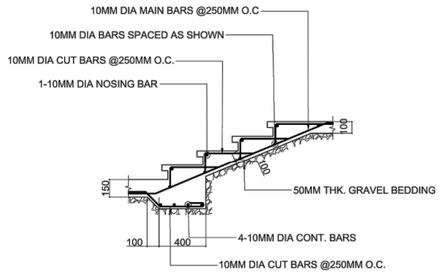
SCALE 1 : 115

EASTERN VISAYAS STATE UNIVERSITY 1907	PREPARED BY: **PPIDO** (PHYSICAL PLANT AND INFRASTRUCTURE DEVELOPMENT OFFICE)	ENGINEER: ENGR. GABINO C. HILVANO, DTM, ENGINEER; PRC NO. / DT. ISS.; PTR. NO. / PL. ISS.	R.A.9266 DRAWINGS AND SPECIFICATION DULY SIGNED, STAMPED AND SEALED, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY AND DOCUMENT OF THE ARCHITECT WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT TO DUPLICATE OR MAKE COPIES OF THIS DOCUMENT OF THE WHOLE OR IN PART.	PROJECT TITLE: CONSTRUCTION OF THREE (3) STOREY EVSU BURAUEN ACADEMIC BUILDING; LOCATION: EVSU BURAUEN CAMPUS, BURAUEN LEYTE	RECOMMENDING APPROVAL: **AR. BERNIE G. TUDIO, UAP** Planning Officer III	APPROVED BY: **DR. DENNIS C. DE PAZ** University President	SHEET CONTENT: AS SHOWN	PROJECT ID NO.; REV. No.: ; DATE SUBMITTED:	SHEET NO. S 8 9



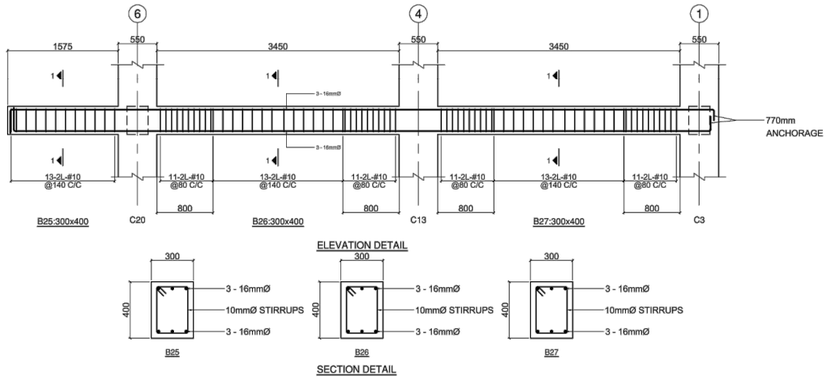
TYP. RAMP DETAIL

SCALE 1 : 40



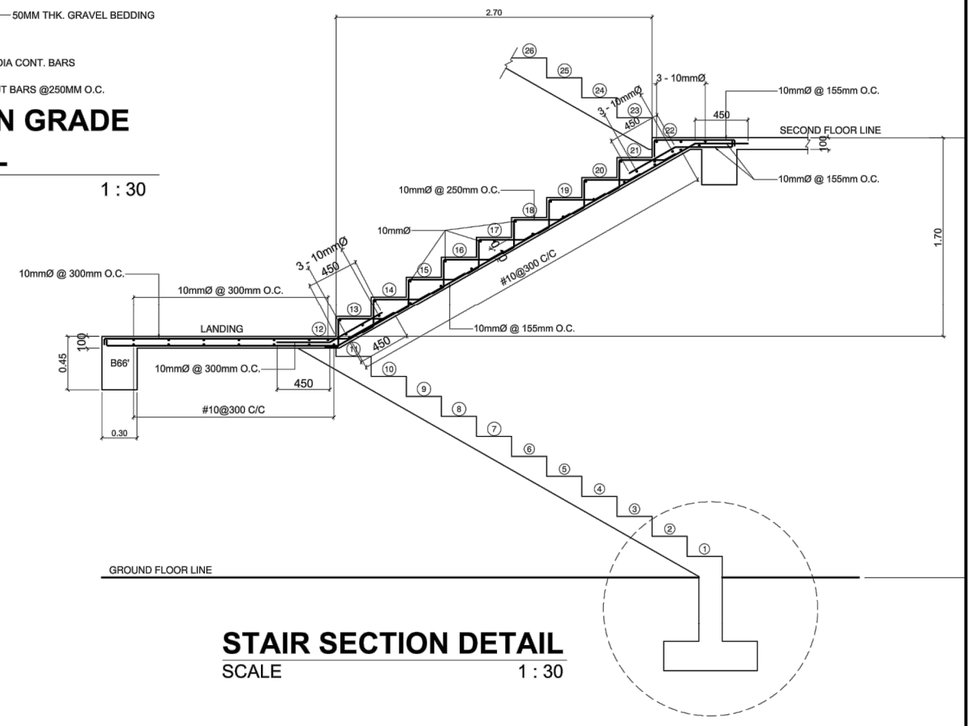
TYP. STAIRS ON GRADE DETAIL

SCALE 1 : 30



TYP. GRADE BEAM DETAIL

SCALE 1 : 50

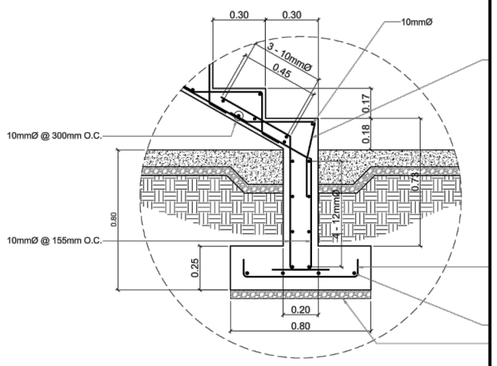


STAIR SECTION DETAIL

SCALE 1 : 30

GRADE BEAM SCHEDULE (C21 : Fy276 (MAIN) : Fy227 (SHEAR)) (LEVEL: 3.15 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
B1,B2 ,B61,B63 ,B65	300	400	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	20-2L-#10@140 C/C	11-2L-#10@80 C/C	-	-	-
B3,B4,B5 ,B11,B12,B13 ,B39,B40 ,B41,B42,B43,B44	300	400	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	16-2L-#10@140 C/C	11-2L-#10@80 C/C	-	-	-
B17,B18,B19 ,B51	300	400	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	17-2L-#10@140 C/C	11-2L-#10@80 C/C	-	-	-
B23	300	400	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	10-2L-#12@80 C/C	-	10-2L-#12@80 C/C	-	-	-
B24,B26,B27,B29 ,B30	300	400	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	13-2L-#10@140 C/C	11-2L-#10@80 C/C	-	-	-
B25,B28	300	400	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	5-2L-#10@140 C/C	3-2L-#10@140 C/C	5-2L-#10@140 C/C	-	-	-
,B62 ,B64,B66	300	400	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	6-2L-#10@140 C/C	11-2L-#10@80 C/C	-	-	-
B52	300	400	3-#16	3-#16	3-#16	+ 4-#16 2-#16	4-#16	+ 4-#16 2-#16	11-2L-#10@80 C/C	38-2L-#10@115 C/C	11-2L-#10@80 C/C	-	-	-



SPOT DETAIL

SCALE 1 : 20

PREPARED BY: **PPIDO** (PHYSICAL PLANT AND INFRASTRUCTURE DEVELOPMENT OFFICE)	ENGINEER: ENGR. GABINO C. HILVANO, DTM, ENGINEER; PRC NO. ; DT. ISS. ; PTR. NO. ; PL. ISS.	R.A.9266 DRAWINGS AND SPECIFICATION DULY SIGNED, STAMPED AND SEALED, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY AND DOCUMENT OF THE ARCHITECT WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT TO DUPLICATE OR MAKE COPIES OF THIS DOCUMENT OF THE WHOLE OR IN PART.	PROJECT TITLE: CONSTRUCTION OF THREE (3) STOREY EVSU BURAUEN ACADEMIC BUILDING; LOCATION: EVSU BURAUEN CAMPUS, BURAUEN LEYTE
RECOMMENDING APPROVAL: **AR. BERNIE G. TUDIO, UAP**, Planning Officer III	APPROVED BY: **DR. DENNIS C. DE PAZ**, University President	SHEET CONTENT: AS SHOWN	PROJECT ID NO. ; REV. No.: ; DATE SUBMITTED:	SHEET NO. S 9 9