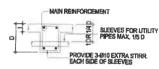
GENERAL CONSTRUCTION NOTES

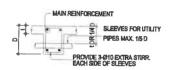
TARIF'A' TENSION BARS TABLE OF LAP SPLICE & ANCHORAGE LENGTH (mm) fc'= 20.7MPa/300csi fc's 27 6 MPa (4000m

BAR SIZES	fc'= 20.7M	Pa(300psl)	fc'= 27.6 MP	a (4000psi)
DEFORMED MAY	EMBEDMENT	LAPPED	EMBÉDMENT	LAPPET
Øtg	225	300	200	300
912	275	303	250	300
Ø16	350	400	325	400
220	450	500	475	500)
Ø25	550	625	550	625
6128	625	875	625	67\$
635	700	775	700	773

- 3. IF THE BEAM REINFORCING BARS END IN A WALL, THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL IS NOT LESS THAN 25 THE EMBEDMENT LENGTH SHALL BE SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS UNLESS SPECIFIED IN PLAN, TOP BARS AND SHALL NOT BE SPLICED WITHIN THE COLUMN OR TWO STIRRUPS SHALL BE PROVED AT ALL SPLICES.
- 4. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USED 25mm BAR SEPARATORS SPACED AT 1.0M ON ON CENTER ON NO CASE SHALL THERE BE THAN TWO (2) SEPARATORS BETWEEN LAYERS OF BARS
- 5. MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIGURE B-2



TYP DET FOR SLEEVES THRU CONCRETE BEAM 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 REINFORCING BARS SHALL BE SYMMETRICAL ABOUT THE 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 TABLE "A AND "B". WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPLICED YIELD STRENGTH OF THE BAR NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN

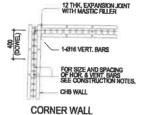
NOTES ON CONCRETE HOLLOW BLOCKS WALLS

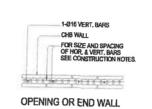
- 1. UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
- 2. PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 10mm Ø TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

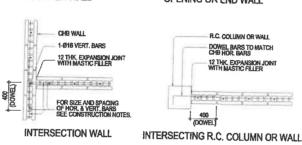
NO	TES ON CONCRETE H	IOLLOW BLOCKS W	ALLS REINFORCEMENTS
BLOCK THICKNESS	REINFORCE	MENT	NOTES
	HORIZONTAL	LAPPED	A. MINIMUM LAPS AT SPLICE= 0.25 M
75 mm	10mm Ø EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	B. PROVIDE RIGHT ANGLED REINFORCEMENT
125 mm	10mm Ø EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	AT CORNERS 0.92 m LONG
150mm	10mm Ø EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	C.WHERE CHB OR CER. BLK. WALL DOWELS WITH THE SAME SIZE AS VER. OR HOR.
200 mm	12mm Ø EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	REINFORCEMENT SHALL BE PROVIDED

REINFORCING CONCRETE LINTEL BEAMS IN CONCRETE BLOCK WALLS

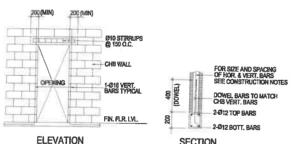
			LS IN B	LOUIT	**/·ULL	o .
CLEAR	TOTAL LENGTH	MIN.	HEIGHT OF	4	REINFO	RCEMENT
{L}	(L+0.40M)	(MPa)	(mm)	MOTTOB	TOP	STIRRUPS
1.20 M	1.60 M		200	1-010	1-010	26 mar (3 200mm
1.50 M	1.90 M	14.0	200	1-910	1-Ø10	26 mm @ 200mm
1.90 M	2.20 M		200	1-012	1-Ø10	26 mm @ 200mm
2.10 W	2.50 M		250	1-Ø12	1-610	26 mm @ 200mm
2.40 M	2.90 M	17.0	250	1-Ø12	1-810	26 mm (0 200mm
270 M	3.10 M		250	1-916	1-Ø12	210mm @ 200mm
1.00 M	3.40 M		300	1-018	1-812	Ø100m @ 200mm
1.30 M	3.70 M	20.0	300	1-015	1-812	Ø10mm @ 200mm
M 09.1	4.00 M		300	1-600	1-812	Ø10mm @ 200mm



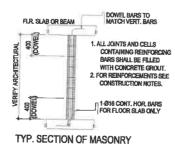


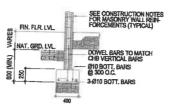


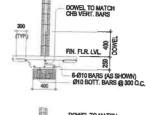
TYPICAL CONNECTION DETAIL OF MASONRY WALL

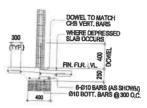


TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



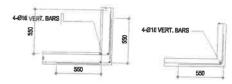






TYPICAL CHB FOOTING DETAILS (WHERE APPLICABLE)





TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS

NOTES ON WELDS

1. USE E60xx ELECTRODES FOR ALL MEMBERS WELDED. 2. WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

NOTES ON STRUCTURAL STEEL

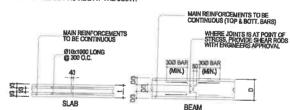
- 1. STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
- 2. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
- 3. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED
- 4. UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM WITH
- 5. ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.

NOTES ON EMBBED PIPES

1. ALL EMBEDED PIPES FOR UTILITIES ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DETPH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. 2. NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY. 3. NO PIPES SHALL BE EMBEDDED IN COLUMNS.

NOTES ON CONSTRUCTION JOINTS IN CONCRETE

1. WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED SHEAR KEY SHALL BE PROVIDE AT THE JOINT.



TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.

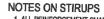
NOTES ON CONCRETE WALLS

1. ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

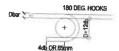
WALL		REINFORCEMENT		1. English
THICKNESS	HORIZONTAL	VERTICAL	REMARKS	VERTICAL SECTION
100mm	Ø10mm @ 250mm O.C.	Ø10mm @ 300mm O.C.	HORIZONTAL BARS	GECTION
125mm	Ø10mm @ 200mm O.C.	Ø10mm @ 250mm O.C.	AT CENTERS VERTICAL	VER BARS
150mm	Ø12mm @ 250mm O.C.	Ø12mm @ 300mm O.C.	BARS STAGGED OUT	HOR. BAR

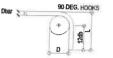
REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 50mm SHALL BE PROVIDED AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.

- 2. CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUIA. TO 30 DIAMETERS AND WIRED SECURELY WITH 16 GJ. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M O.C.
- 3. UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mm0 BARS. FOR 225mm, 200mm, 175mm, 150mm THICK WALLS, USE 2-16mm0. FOR 125mm AND 100mm THICK WALLS, USE 2-12mm0 BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT A U-FORN LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED.

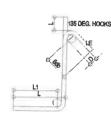


- 1. ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
- AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
- 3. TIES & CLOSE STIRRUPS MUST BE AT 135.





		RENID HOO GRADES)	KS	
BAR SIZE	DAMETER	180"	HOOK	80° HOOH
(DEFORMED)	(1780)	D+2db	L	L
10 mm@	80	75	125	150
12 mm Ø	75	100	150	200
16 mm Ø	96	125	175	250
20 am Ø	115	150	200	300
25 mm 9	150	200	230	450
28 mm Ø	240	300	350	560
32 mmØ	300	336	450	600



		STIRRUP AND THE TE HOOKS		
BAR SZE	DIAMETER	180° HOOK		90° HOOR
(DEFORMED)	(mm)	D+24b	Ł	L
10 mm Ø	40	125	85	100
12 mm Ø	50	165	115	115
16 mm Ø	65	200	140	150
20 mm Ø	115	300	165	300
32 mm Ø	150	336	230	405

NOTE:



TYP. EXTERIOR WDW. & DOOR OPENING



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar

CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILD VERSITY OF EASTERN PHILIPPINES, CATARMAN, NORTHERN

PROJECT NAME & LOCATION:

SHEET CONTENTS: GENERAL NOTES

PARTITION REINFORCEMENTS

PREPARED DESIGNED:

Uling. R DIONALD N. EIMAN

NDY S. EREÑO CHIEF, PLANNING & DESIGN SECTION

VIVIAN BIACO

S-2

SET No.

29

SHEET No.

GENERAL NOTES:

SURVEY DATA:

DATE OF SURVEY: MARCH 3, 2025

EQUIPMENT USED: RTK-ROVER(Z35180902035), RTK-BASE(Z35180904039).

GEODESIGN REMOTE (10664273)

CALIBRATION EXPIRY DATE: FEBRUARY 2, 2024

		BENCH MARK REF	ERENCE	
REF	COORE	COORDINATES		DENTARKS
,,,,	LATITUDE	LONGITUDE	ELEVATION	REMARKS
REF-1	12°30'30.671"N	124°40′14.8115″E	61.604 m	ВМ

COORDINATE REFERENCE SYSTEM:	PRS92 / PHILIPPINE ZONE V
PROJECTION:	TRANSVERSE MERCATOR (TM) ZONE OF 2° NETWIDE
DATUM:	PHILIPPINE REFERENCE SYSTEM 1992
EPSG CODE :	3125

REFERENCE BENCHMARK DETAILS

- 1. THE POSITION OF PROJECT CONTROL POINTS SHALL BE DEFINED AND MARKED ON THE MONUMENTS OF PERMANENT NATURE.
- 2. CRITERIA FOR LOCATION OF MUNUMENTS:
- ACCESSIBILITY
- GROUND STABILITY
- SECURITY FROM POSSIBLE ACTS OF DISTIRBANCE
- 3. INTERVAL MONNUMENTS
- PRIMARY GPS CONTROL (GPS): 3 KM INTERVAL
- PRIMARY PROJECT CONTROL (BM): 300 M INTERVAL
- INTERMEDIATE CONTROL (IBM): EVERY 250 M INTERVAL IN BETWEEN BMS

DESIGN SPECIFICATION:

- DPWH DESIGN GUIDELINE, CRITERIA, & STANDARD, 2015 EDITION
- DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORT, VOLUME II, 2015 EDITION
- DPWH STANDARD SPECIFICATIONS FOR BUILDINGS, PORTS AND HARBORS, FLOOD CONTROL, DRAINAGE STRUCTURES AND WATER SUPPLY SYSTEM. VOLUME III, 2019 EDITION
- DPWH DESIGN GUIDELINE, CRITERIA, & STANDARD VOLUME 3: WATER PROJECT, 2015 EDITION

DESIGN CRITERIA:

- Structural Concrete CLASS *A*
 - ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS, Fc'=20.70 Mpa (3,000 Psi) MODULAR RATIO, n=Es/Ec=10
- REINFORCING STEEL
 - GRADE 40; fy=275.80,Mpa (40,000psi)
- STRUCTURAL STEEL A36; fy= 248.30 MPa (36.000psi)

CONSTRUCTION REQUIREMENTS:

1.1 DIMENSIONS

- STATIONS ARE GIVEN IN KILOMETERS WITH OR WITHOUT DECIMALS.
- RADII, ELEVATIONS, FLOOD LEVELS, ETC, ARE GIVEN IN METERS WITH OR WITHOUT DECIMALS
- UNLESS OTHERWISE SHOWN, ALL DISTANCES ARE IN METERS.

1.2 STATIONINGS

- THE ROAD STATIONS AND ELEMENTS OF CURVES ARE RELATIVE TO THE CENTERLINE OF .
- ALL STATIONS ALONG ROAD CENTERLINE ARE RECKONED FROM NATIONAL

1.3 ELEVATIONS AND GRADES

- ELEVATIONS GIVEN IN THE COLUMN "FINISHED GRADE ELEVATION" REFER TO THE GRADE AS SHOWN IN THE TYPICAL ROADWAY SECTION
- GROUND LEVEL AND FINISHED ROAD LEVEL OF THE ROAD REFER TO THE GROUND PROFILE FOR THE ROAD CENTERLINE

1.4 REMOVAL OF STRUCTURE AND OBSTRUCTION

CONSIST OF THE REMOVAL WHOLLY OR IN PART, AND SATISFACTORY DISPOSAL OF ALL BUILDINGS, FENCES, STRUCTURES, OLD PAVEMENTS, ABANDONED PIPE LINES, AND ANY OTHER OBSTRUCTIONS WHICH ARE NOT DESIGNATED OR PERMITTED TO REMAIN, EXCEPT FOR THE OBSTRUCTIONS TO BE REMOVED AND DISPOSED OFF UNDER OTHER ITEMS IN THE CONTRACT. IT SHALL ALSO INCLUDE THE SALVAGING OF DESIGNATED MATERIALS AND BACKFILLING THE RESULTING TRENCHES, HOLES, AND PITS.

- 1. REMOVAL OF EXISTING BRIDGES, CULVERTS, AND OTHER DRAINAGE STRUCTURES IT SHALL BE IN ACCORDANCE WITH ALL THE REQUIREMENTS OF SUBSECTION 101.2.2, REMOVAL OF EXISTING BRIDGES, CULVERTS, AND OTHER DRAINAGE STRUCTURES.
- 2. REMOVAL OF PIPES OTHER THAN PIPE CULVERTS UNLESS OTHERWISE PROVIDED, ALL PIPES SHALL BE CAREFULLY REMOVED AND EVERY PRE-CAUTION TAKEN TO AVOID BREAKAGE OR DAMAGED. PIPES TO BE RELAID SHALL BE REMOVED AND STORED WHEN NECESSARY SO THAT THERE WILL BE NO LOSS OF DAMAGE BEFORE RE-LAYING. THE CONTRACTOR SHALL REPLACE SECTIONS LOST FROM STORAGE OR DAMAGE BY NEGLIGENCE, AT HIS OWN EXPENSE.
- 3. REMOVAL OF EXISTING PAVEMENT, SIDEWALKS, CURBS, ETC.

ALL Structural Concrete PAVEMENT, BASE COURSE, SIDEWALKS, CURBS, GUTTERS, ETC., DESIGNATED FOR REMOVAL, SHALL BE:

- BROKEN INTO PIECES AND USED FOR RIPRAP ON THE PROJECT, OR
- 2. BROKEN INTO PIECES, THE SIZE OF WHICH SHALL NOT EXCEED 300MM (12 INCHES) IN ANY DIMENSION AND
- 3. STOCKPILED AT DESIGNATED LOCATIONS ON THE PROJECT FOR USE BY THEGOVERNMENT, OR OTHERWISE DEMOLISHED AND DISPOSED OFF AS DIRECTED BY THE ENGINEER. WHEN SPECIFIED, BALLAST, GRAVEL, BITUMINOUS MATERIALS OR OTHER SURFACING OR PAVEMENT MATERIALS SHALL BE REMOVED AND STOCKPILED AS REQUIRED IN SUBSECTION 101.2.1. OTHERWISE SUCH MATERIALS SHALL BE DISPOSED OFF AS DIRECTED.

1.6 REINFORCING STEEL

- 1.11.1 ALL REINFORCEMENT STEEL BARS SHALL BE DEFORMED BARS WITH DEFORMATION CONFORMING TO ASTM A615 AND OF INTERMEDIATE (GRADE 40) WITH MINIMUM YIELD STRENGTH fy=275MPa (40,00 psi)
- 1.11.2 REINFORCING BARS SHALL BE COLD BENT.
- 1.11.3 REINFORCING BARS SHALL HAVE 75mm COVERING

1.7 STRUCTURAL CONCRETE

STRUCTURE CONCRETE SHALL CONSIST OF A MIXTURE OF PORTLAND CEMENT, FINE AGGREGATE, COARSE AGGREGATE, ADMIXTURE WHEN SPECIFIED, AND WATER MIXED IN THE PROPORTIONS SPECIFIED OR APPROVED BY THE ENGINEER

THE CLASSES OF Structural Concrete WILL GENERALLY BE USED AS FOLLOWS:

CLASS A - ALL SUPERSTRUCTURES AND HEAVILY REINFORCED SUBSTRUCTURES. THE IMPORTANT PARTS OF THE STRUCTURE INCLUDED ARE SLABS, BEAMS, GIRDERS,

COLUMNS, ARCH RIBS, BOX CULVERTS, REINFORCED ABUTMENTS, RETAINING WALLS, AND REINFORCED FOOTINGS

CLASS B - FOOTINGS, PEDESTALS, MASSIVE PIER SHAFTS, PIPE BEDDING, AND GRAVITY WALLS, UNREINFORCED OR WITH ONLY A SMALL AMOUNT OF REINFORCEMENT.

CLASS C - THIN REINFORCED SECTIONS, RAILINGS, PRECAST R.C. PILES AND CRIBBING AND FOR FILLER IN STEEL GRID FLOORS.

CLASS P - PRESTRESSED Structural Concrete STRUCTURES AND MEMBERS.

SEAL - Structural Concrete DEPOSITED IN WATER.

1.10 HAND-LAID ROCK EMBANKMENT

- THE STONE SHALL BE CLEAN, HARD AND DURABLE AND FURNISHED IN A WELL-BALANCED RANGED OF SIZES MEETING THE CONSTRUCTION REQUIREMNETS.
- SUFFICIENT EXCAVATION SHALL BE MADE TO EXPOSE A FOUNDATION BED THAT IS SATISFACTORY TO THE ENGINEER. THE STONES SHALL BE FOUNDED ON THIS BED AND LAID TO THE LINES AND DIMENSIONS REQUIRED. STONES SHALL BE LAID FLAT AND SECURELY PLACED WITH BROKEN JOINT LINES. 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 506.2, MATERIAL REQUIREMENTS, SHALL BE USED TO CHECK THE LARGER STONES SOLIDLY IN POSITION AND TO SUBSTANTIALLY FILL VOIDS BETWEEN THE MAJOR STONES AS LAID IN THE EMBANKMENT. THE EXPOSED FACE OF THE ROCK MASS SHALL BE REASONABLY UNIFORM, WITH NO PROJECTIONS OF MORE THAN 150 MM, BEYOND THE NEAT LINES SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER

Class of Structure	Minimum Cerment Conbeste Per m³ 40kg/ (bag**)	DESIGNim Water/ Cement Ratio kg/kg	Range in Slump mm	Designated Size of Coarse Aggregate Square Opening Std. mm	Minimum Compresive Strength of 150x300mm Structural Concrete Cylinder Specimen at 28 days, MN/m²
Α	364 (9.1 bags)	0.53	50-100	37.5 - 4.75 (1-1/2" - No. 4)	20.7
В	320 (8 bags)	0.58	50-100	50 - 4.75 (2" - No. 4)	16.5
С	380 (9.5 bags)	0.55	50-100	12.5 - 4.75 (1/2" - No. 4)	20.7
Р	440 (11 bags)	0.49	100 DESIGN	19.0 - 4.75 (3/4" - No. 4)	37.7
Seal	380 (9.5 bags)	0.58	100-200	25 - 4.75 (1" - No. 4)	20.7

- The measured cement content shall be within plus or minus 2 mass percent of the design cement content.
- ** Based on 40kg/baa
- 2.0 THIS PLAN WILL SERVE ONLY AS A GUIDE IN THE IMPLEMENTATION PARTICULARLY IN THE CONS-TRUCTION STAGE. IT MUST ALSO BE SUBJECTED TO AN AS-STAKED SURVEY TO BE CONDUCTED JOINTLY BY THE DIRECT IMPLEMENTING OFFICE AND THE CONTRACTOR AND SUBSEQUENT PLANS WILL BE PREPARED AND SUBMITTED FOR APPROVAL.

1.) FLOOD CONTROL STRUCTURE

ITEMS	DESIGN REQUIREMENTS
PERFORMANCE PERIOD	20 YEARS
2. MEAN SEA LEVEL	56.03 m
3. HIGHEST OBSERVE SEA ELEVATION	61.03 m
4. SIGNIFICANT WAVE HEIGHT	0.50 m
5. COEFFICIENT OF ARMOR ROUGHNESS	0.55
6. DIMENSIONLESS BREAKER PARAMETER	2.5
7. WAVE RUN UP ELEVATION	62.13 m



Republic of the Philippines
TMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE

Catarman, Northern Samar

PROJECT NAME & LOCATION:

TRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING, Y OF EASTERN PHILIPPINES, CATARMAN, NORTHERN SAM

GENERAL NOTES

SHEET CONTENTS:

Welker NALD N. EIMAN ASST. CHIEF, PLANNING & DESIGN SECTION

REVIEWED

ANDY S. FRENO

VIVIAND ASST. DISTRIC

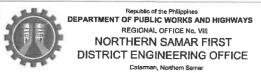
ALVIN A. IGNACIO

SHEET NO

30

SET No.

	LE	GEND		
1,1 EXISTING TOPOG	GRAPHIC FEATURES	1.2	NEW DESI	GN FEATURES
EXISTING ROAD			A. PL	AN
PROJECT ROAD	====	PIPE CULVERT		
EXISTING PIPE CULVERT		POINT OF INTERSEC	TION	Pl-1
ELECTRIC POST	• • •	ROAD CENTERLINE		
CONRETE HOUSE		CUT		
WOODEN HOUSE		EMBANKMENT		
BAMBOO NIPA HOUSE		LEVEL CUT OR FILL		Within the Conference of the C
BENCH MARK & REFERENCE	⊕BM ⊕REF		B. PRO	FILE
RIVER / CREEK	7	PIPE CULVERTS		() EXISTING () NEW
NORTH ARROW	*	LENGTH OF VERTICAL	L CURVE	
CONTROL STATION	0	VERTICAL POINT OF INT	ERSECTION	
COCONUT TREES	有方方方/兼兼(TOP VIEW	/) WATER LEVEL		
RICE FIELD	ተዋተ ዋ ዋ ዋ ዋ	RCPC		O PROFILE ∏ PLAN
CANAL	>·>	RCBC		PROFILE PLAN
CONTOUR		STAIRS AND LANDING		
TREES				
	ABBREVI	ATIONS		
AH - AHEAD STATIONING	EQ - EQUAT	ON	O.G ORI	GINAL GROUND
AZIM - AZIMUTH	g - GRADE	IN PERCENT	OWL - ORE	DINARY WATER LEVEL
BH - BORE HOLE	Δ - INTERS	ECTION ANGLE	PCCP- PORT	FLAND CEMENT Structural Concrete PAVEMENT
BK - BACK STATIONING	KPH - KILOME	TER PER HOUR	Pi - HOR	IZONTAL POINT OF INTERSECTION
BM - BENCH MARK	Lc - LENGTH	OF HORIZONTAL CURVE	POT - POI	NT OF TANGENT
€ - CENTERLINE	MEFL - DESIGNIN	IUM EXPERIECED FLOOD LEVEL	R - RAD	IUS
cm - CENTIMETER	M3 - CUBIC N	TETER	RCP - REIN	IFORCED Structural Concrete PIPE
CS - CONTROL STATION	M - METER		STA STA	TION
DIST DISTANCE	mm - MILLIME	TER	T - TANG	GENT
E - EASTING/EXTERNAL	DISTANCE MO - MIDDLE	ORDINATE	VC - LENG	GTH OF VERTICAL CURVE
ef - FULL SUPERELEVAT	ION N - NORTHII	NG	VPI - VER	FICAL POINT OF INTERSECTION
EL./ELEV ELEVATION	NC - NORMAL	CROWN	DFL - DESI	GN FLOOD LEVEL

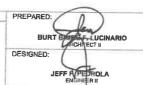


CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING, INIVERSITY OF EASTERN PHILIPPINES, CATARMAN, NORTHERN SAMAR UNIVERSITY OF EASTERN PHILIPPINES, CATARMAN N, BAMAR

PROJECT NAME & LOCATION:

LEGENDS & ABBREVIATIONS

SHEET CONTENTS:



REVIEWED:

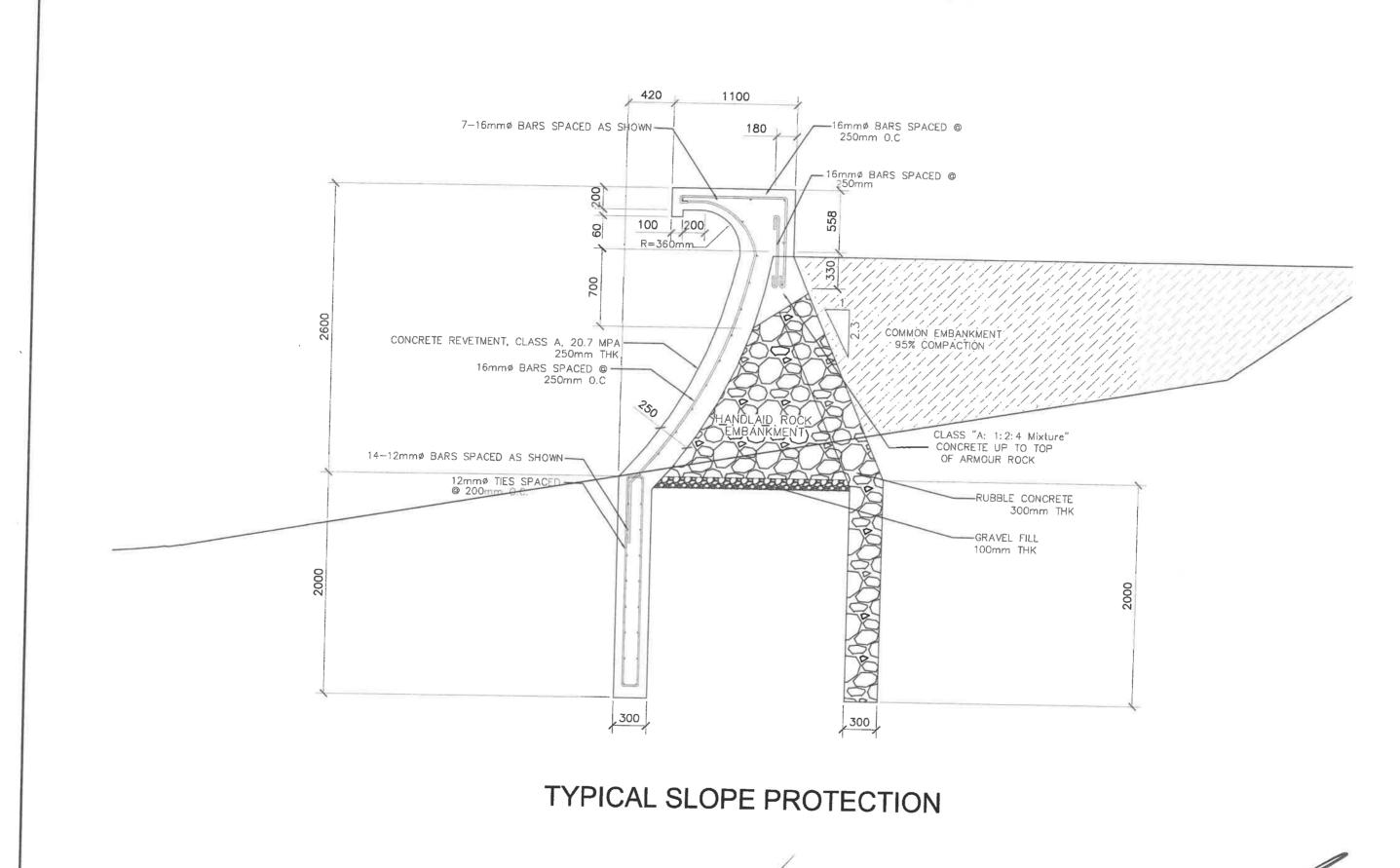


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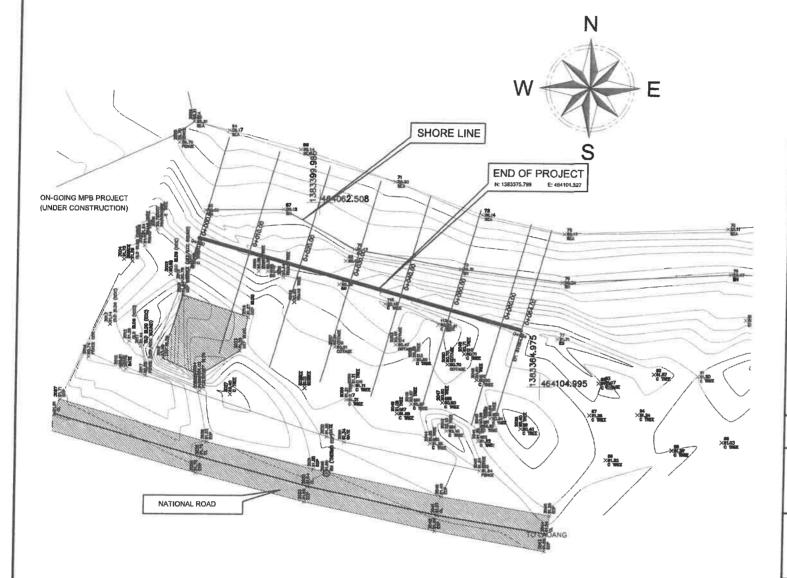
SET No. SHEET No.

31

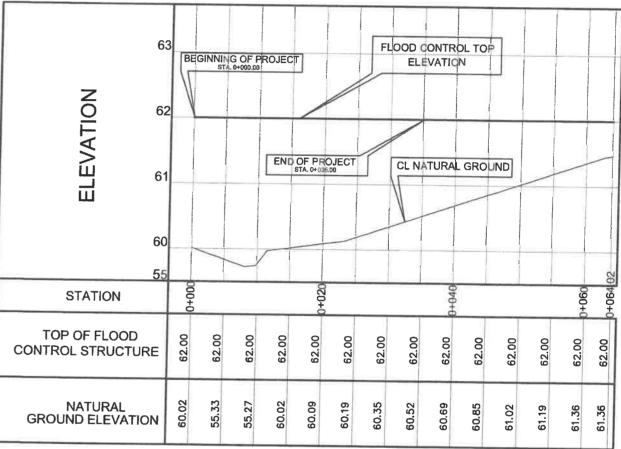
ALVIN A. IGNACIO DISTRICT ENGINEER
Date:





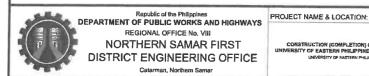


REFERENCE					
POINT	N	E	ELEVATION	REMARKS	
1	1383348.188	464064.709	61.604	ВМ	



PLAN METERS

PR O FI LE



CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING, INVERSITY OF EASTERN PHILIPPINES, CATARMAN, NORTHERN SAMAR UNKERSITY OF EASTERN PHILIPPINES, CATARMAN, SAMAR

PLAN AND PROFILE

SHEET CONTENT:



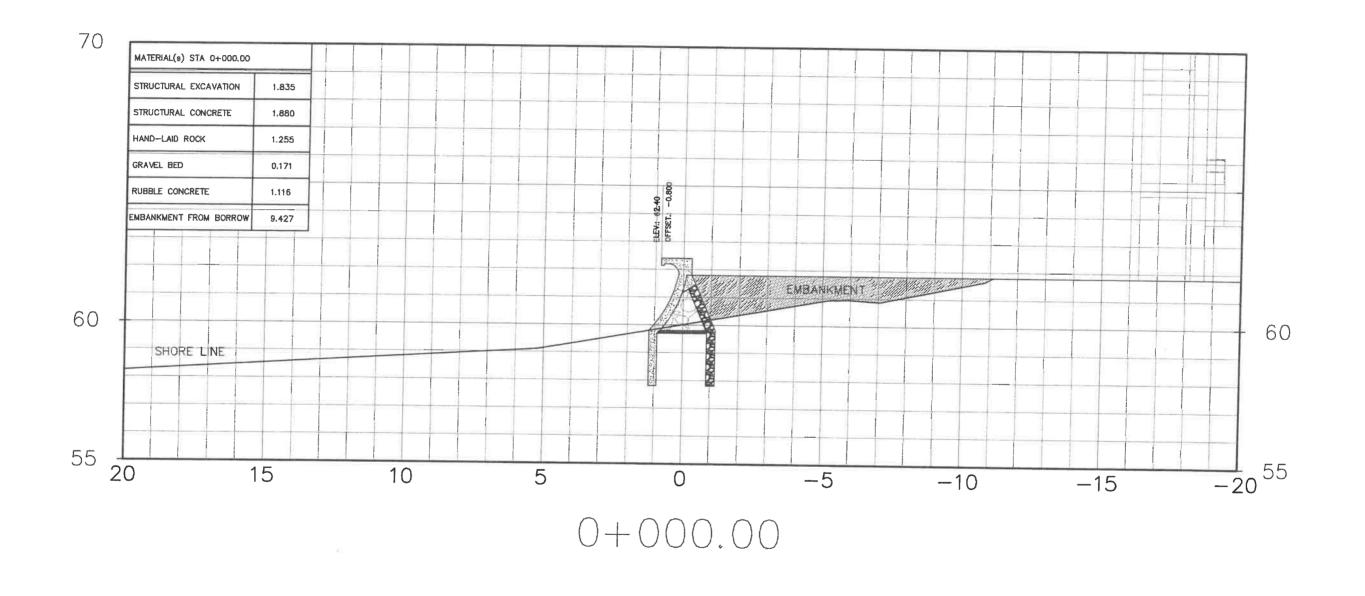
MAR DIONALD N. EIMAN
ASST. CHIEF, PLANNING AND DESIGN SECTION
Date:

ANDY S. EREÑO
CHIEF, PLANNING AN DE IGN SECTION
Date:

RECOMMENDED:

ALVIN A. IGNACIO

SET NO. SHEET NO.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
PROJECT NAME & LOCATION: REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE

CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING, UNIVERSITY OF EASTERN PHILIPPINES, CATARMAN, NORTHERN SAI UNIVERSITY OF EASTERN PHILIPPINES, CATARMAN N. SAILAR

SHEET CONTENT: CROSS - SECTION

REVIEWED: MAR DIONALD N. EIMAN
ASST. CHIEF, PLANNING AND DESIGN SECTION
Daile:

CHIEF, PLANNING AND DESIGN SECTION
Date:

SUBMMITTED:

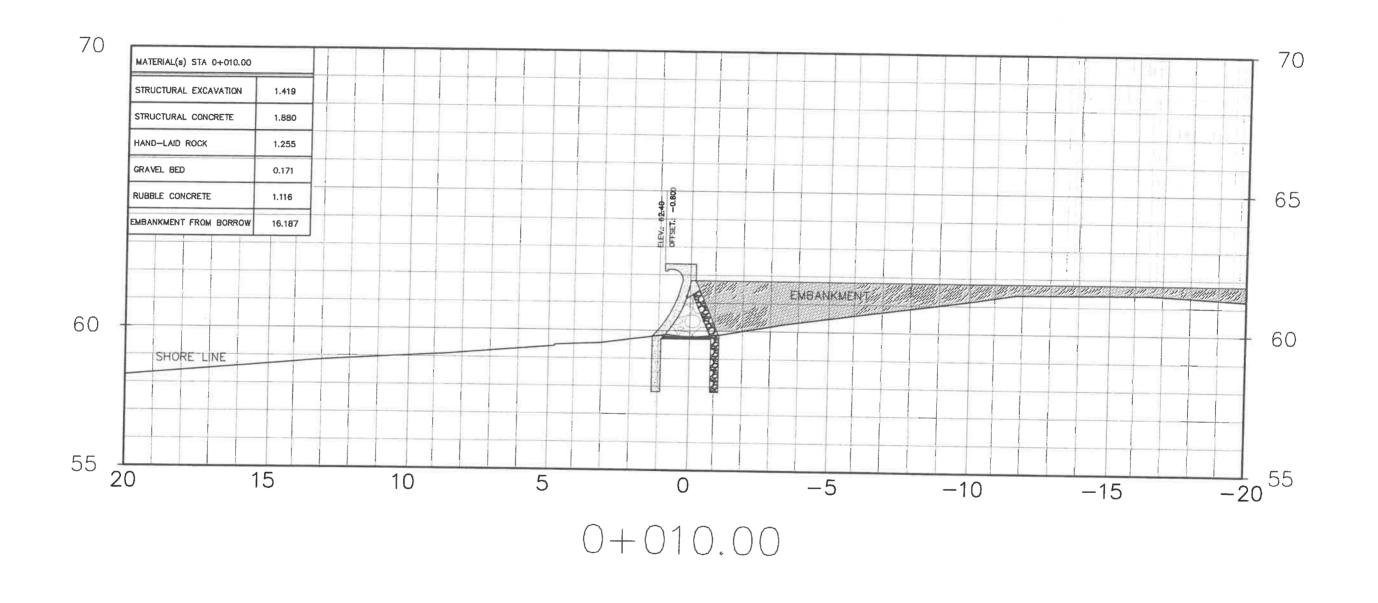
RECOMMENDED:

APPROVED:

SET NO. SHEET NO.

ALVIN A. IGNACIO





Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. VIII
NORTHERN SAMAR FIRST
DISTRICT ENGINEERING OFFICE
Catarman, Northem Samar

CROSS - SECTION CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING, UNIVERSITY OF EASTERN PHILIPPINES, CATASMAN, NORTHERN SAMAR UNIVERSITY OF EASTERN PRILIPPINES, CATASMAN IN JAMAR

SHEET CONTENT:

GLEER BANGA
DESIGNED BY

JEFF L PEDROLA
ENGIN ERII

MARDIONALD N. EIMAN
ASST. CHIEF, PLANNING AND DESIGN SECTION
Date:

ANDY S. EREÑO
CHIEF, PLANING AND DEIGN SECTION

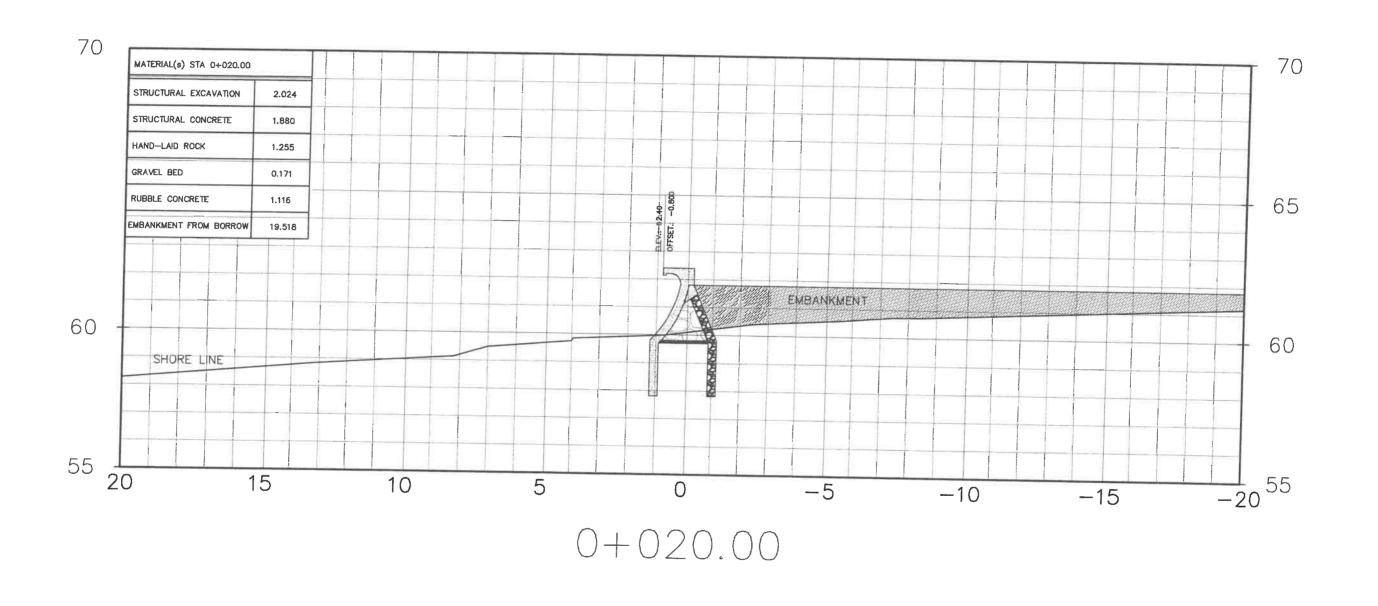
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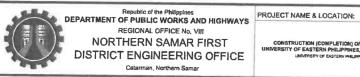
WILLIAM BIACO

DISTRICT ENGINEER

ALVIN A. IGNACIO

<u>\$-8</u>





CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING, UNIVERSITY OF EASTERN PHILIPPINES, CATARMAN, NORTHERN SAMA UNIVERSITY OF EASTERN PHILIPPINES, CATARMAN IS, SAMAR

SHEET CONTENT: CROSS - SECTION

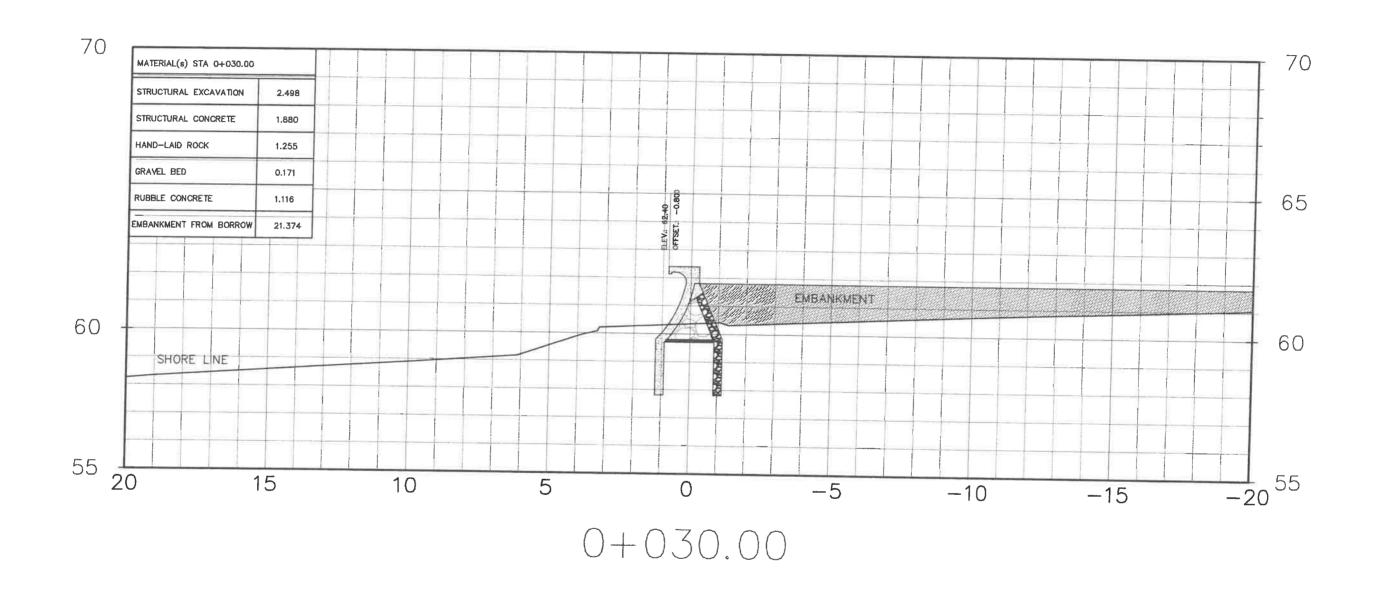


ANDY S. FREÑO



APPROVED: ALVIN A. IGNACIO

SET NO. SHEET NO.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. VIII
NORTHERN SAMAR FIRST PROJECT NAME & LOCATION: DISTRICT ENGINEERING OFFICE Catarman, Northern Samar

SHEET CONTENT:

CROSS - SECTION

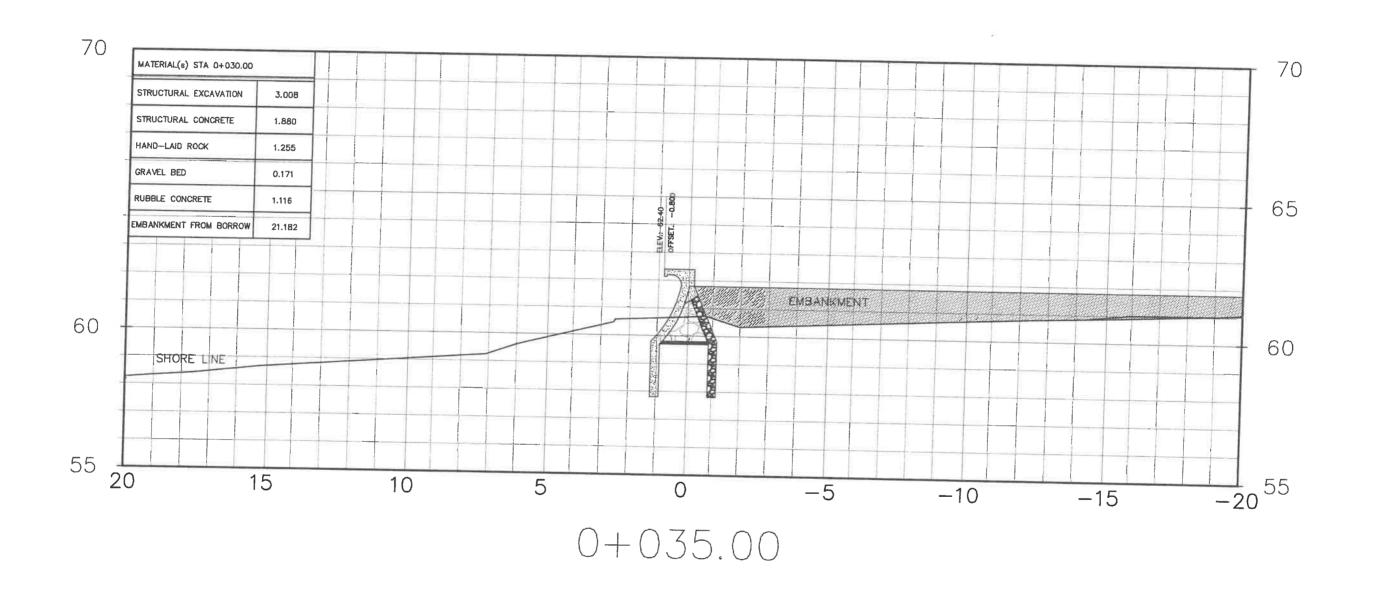
SUBMMITTED: MAR DIONALD N. EIMAN ASST. CHIEF, PLANNING AND DESIGN SECTION

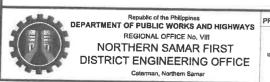
REVIEWED:

RECOMMENDED:

APPROVED: ALVIN A. IGNACIO

SET NO. SHEET NO.





PROJECT NAME & LOCATION:

SHEET CONTENT:

CROSS - SECTION

CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING,
UNIVERSITY OF EASTERN PHILIPPINES, CATARDAM, MORTHERN SAMAR

UNIVERSITY OF MACRIST MILIPPINES, CATARDAM, MORTHERN SAMAR

CAD:

GILBERT RIBANGA

ENGREPH ASSISTANT

DESIGNER BY:

JEFF F. DE TROLA

ENGINER II

MAR DIONALD N. EIMAN
ASST. CHIEF, PLANNING AND DESIGN SECTION
Dala:

SUBMMITTED:

ANDY S. EREÑO
CHIEF, PLANNING AND DE SIGN SECTION

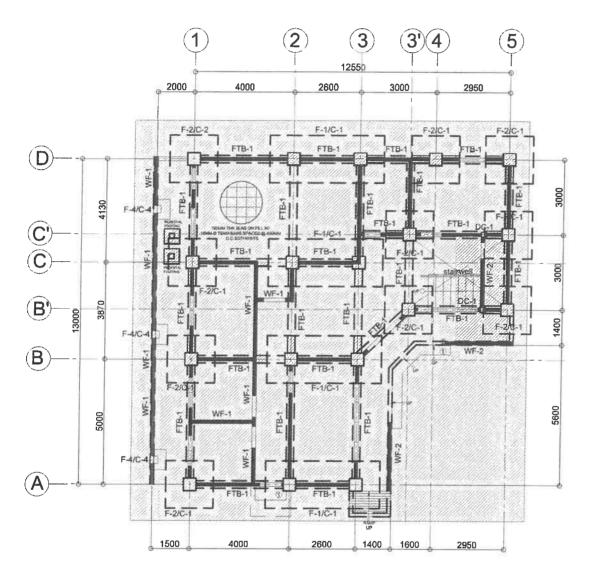


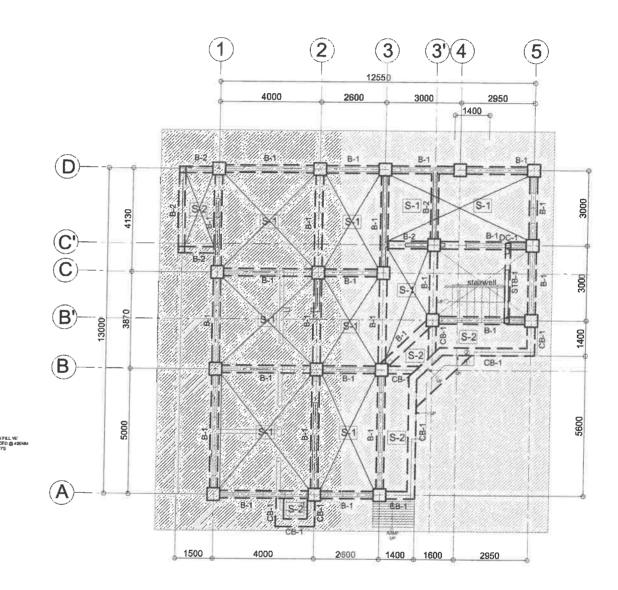
APPROVED:

SET NO. SHEET NO.

0 5-1

S-11 38 84





FOUNDATION PLAN S-12 SCALE: 1:100M

PROJECT NAME & LOCATION:

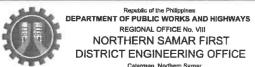
POWER HOUSE FOUNDATION PLAN S-12 SCALE:

LEGEND:

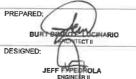
NOT INCLUDED IN PHASE II (STRUCTURAL DETAILS)

1500

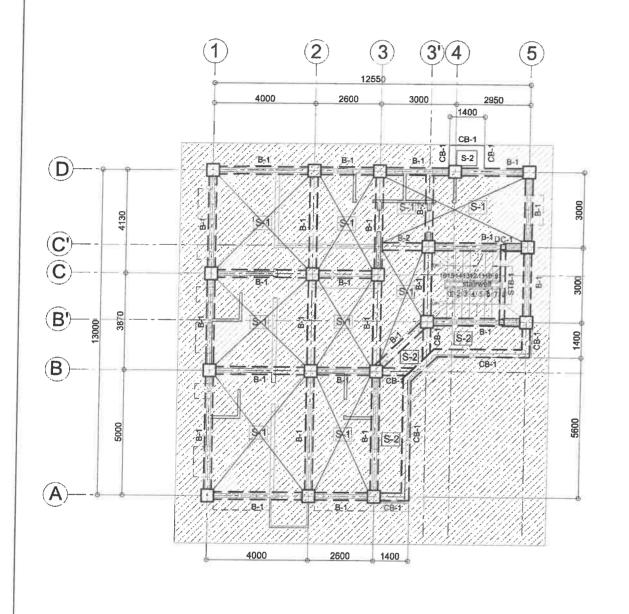
GROUND FLOOR BEAM FRAMING PLAN S-12 SCALE: 1:100M



SHEET CONTENTS:



5-12



(3) (5) (D) (C) (\widehat{B}) 1400

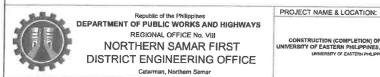
SECOND FLOOR BEAM FRAMING PLAN S-13 SCALE: 1:100M

POWER HOUSE **ROOF BEAM FRAMING** S-13/ SCALE:

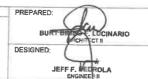
LEGEND:

NOT INCLUDED IN PHASE II (STRUCTURAL DETAILS)

ROOF DECK FRAMING PLAN S-13 SCALE: 1:100M



SECOND FLOOR BEAM FRAMING PLAN ROOF DECK FRAMING PLAN ROOF BEAM FRAMING PLANPOWER HOUSE









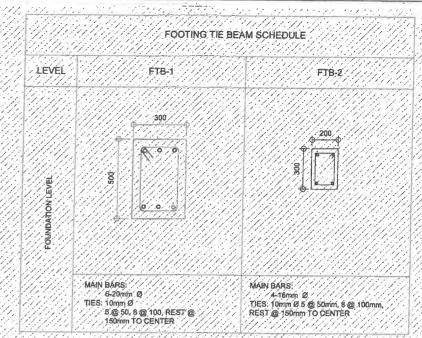
APPROVED: ALVIN A. IGNACIO

S-13

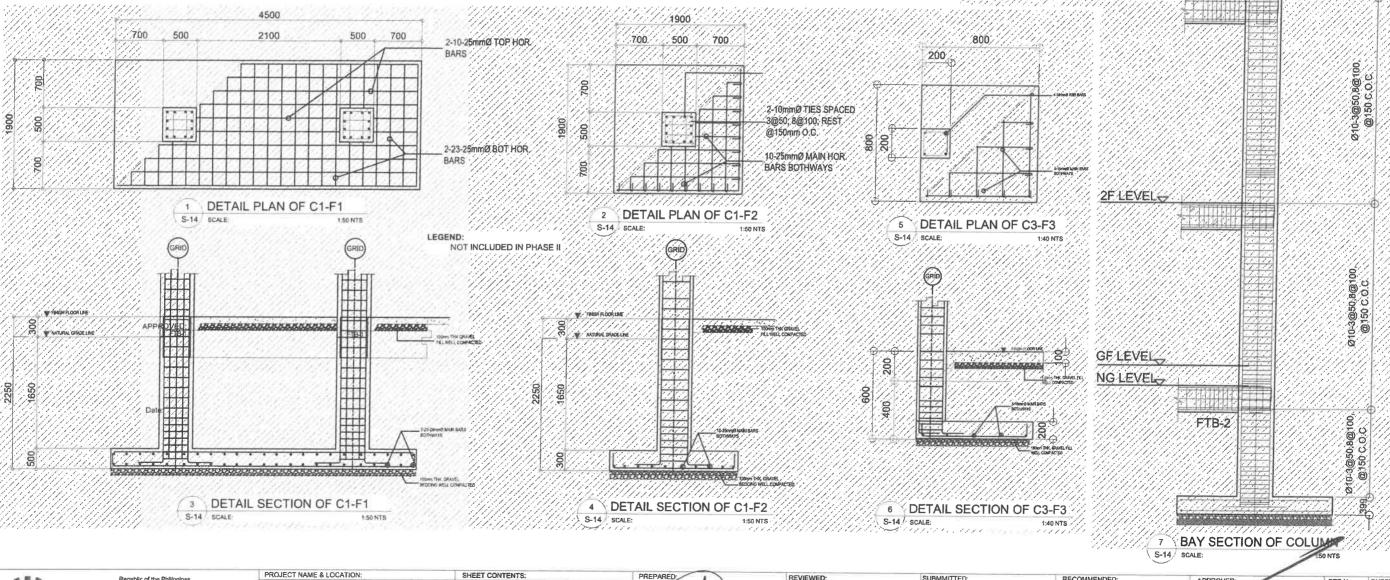
SET No. SHEET No.

				SCHE	EDULE TIÉ	BEAM						
FLOOR LEVEL	BEAM MÁRK	BEAM DIMENSION (in / mm.)	STEEL REINFORCEMENT						STIRRUPS (10mm/ØUNLESS NOTED OTHERWISE)			
			REBAR (mm Ø)	LEFT MID SPAN RIGHT TOP BOTTOM TOP BOTTOM TOP BOTTOM				EXTRA BARS		SPACING	TYPE	
	FTB-1	300 500	20mm	3///	3///3//	3.	3.//	80110W	911550 77577	/ 5 @ 50mm	8 @ 100mm, rest 150mm	///k///
(// 67///	FTB-2	200//300//	/_16mm	///2///////////////////////////////////	2//////////////////////////////////////	///:2//	2//	1/2///	11/1/1		8 @ 100mm, rest 150mm	

					SCHEDULE	OF FOOTING			
FOOTING MARK	FOOTING DIMENSION (mm)					REMARKS			
	LENGTH	WIDTH (m)	Thickness (mm)	Founding depth (mm)	BAR X		В		
	(mm)				TOP	воттом	TOP	воттом	
C4/F4	800	800	300	800	-	4 @ 180mm	-	4 @ 180mm	PERIMETER POST
C5/F5	800	800	300	800	-	4 @ 180mm	-	4 @ 180mm	LAMP POST PEDESTA



RD LEVEL



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar

JEFF F PEDMOLA

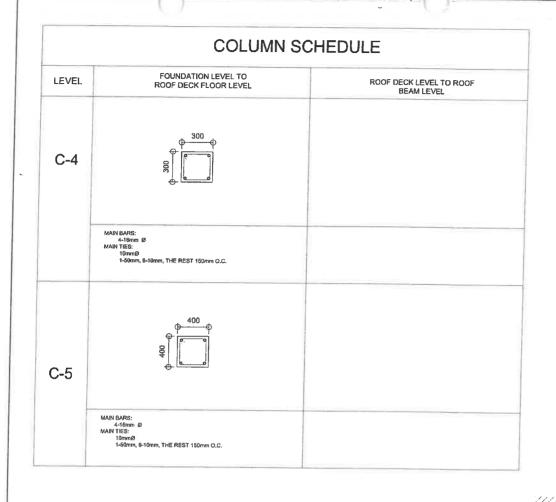
SCHEDULE OF THE BEAM SCHEDULE OF FOOTING DETAIL PLAN OF C1-C2-F1 SECTION OF C1-C2-F2 SECTION OF C2-F2 DETAIL PLAN C3-F3 SECTION OF C2-F2 DETAIL PLAN C3-F3 SECTION OF C2-F2

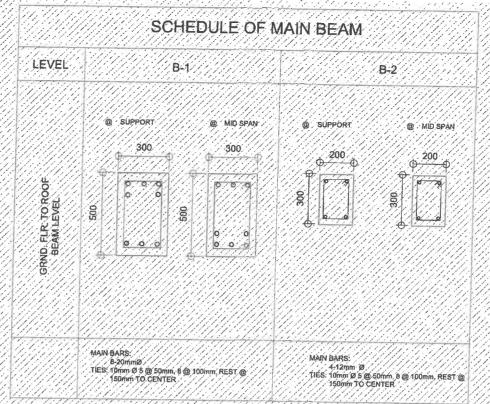
ASST. CHIEF, PLANNING & DESIGN SECTION Date:

VIVI AND BIACO

SET No. SHEET No. S-14 ALVIN A. IGNACIO DISTRICT ENGINEER
Date:

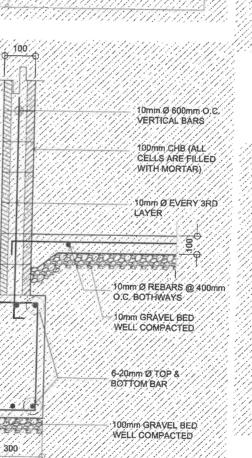


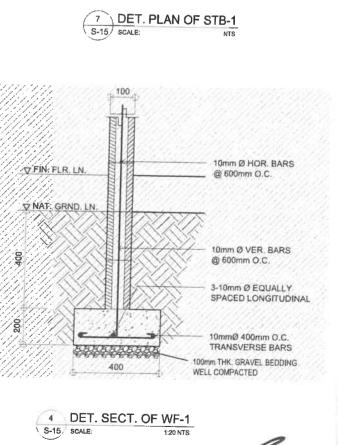


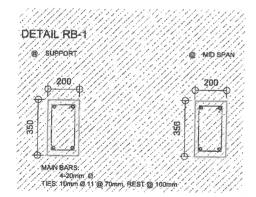


VFFL

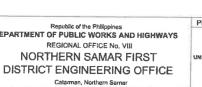
V NGL



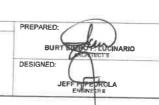




9 DET. PLAN OF RB-1 S-15 SCALE:



PROJECT NAME & LOCATION: CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING, VERSITY OF EASTERN PHILIPPINES, CATARMAN, NORTHERN SAM, LINVERSITY OF EASTERN PHILIPPINES, CATARMAN IN SAMAR SHEET CONTENTS:



1:20 NTS

LEGEND: NOT INCLUDED IN PHASE II

5 DET. SECT. OF WF-2

6 DET. PLAN OF DC-1



S-15/ SCALE:

SUBMMITTED: ANDY S. FREÑO CHIEF, PLANNING & SIGN SECTION



200

@ SUPPORT

250/

@ SUPPOR

1-20mm@ TIES: 10mm Ø 5 @ 50mm, 8 @ 100mm, REST @ 150mm TO CENTER

MAIN BARS: 4-20mmØ EXTRA BAR 1-20mmØ

MAIN BARS: 4-20mmØ TIES: 10mm Ø 5 @ 50mm, THE REST @ 150mm TO CENTER

10mm Ø 5 @ 50mm, THE REST 150mm O.C.

S-15, SCALE:

10mm Ø 5 @ 50mm

8 DET, PLAN OF CB-1

200

@ MID SPAN

250

@ MID SPAN

4-20mm Ø RSB

10mm Ø 5 @ 50mm, THE REST 150mm O.C.

SHEET No. S-15 **ALVIN A. IGNACIO** DISTRICT ENGINEER

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST

Catarman, Northern Samar

ASST. CHIEF, PLANNING & DESIGN SECTION

42

84

S-15, SCALE:

3 DET. SECT. OF FTB-1