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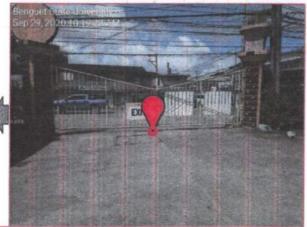
PROPOSED START OF PROJECT

## LOCATION MAP

NOTE: BEFORE THE START OF THE ACTUAL CONSTRUCTION, THE "AS—STAKED" PLAN SHOULD BE SUBMITTED TO THE BENGUET STATE UNIVERSITY PLANNING AND DEVELOPMENT OFFICE IN ORDER THAT IMMEDIATE STEPS MAY BE TAKEN TO CORRECT OR ADJUST WHATEVER APPRECIABLE DEVIATION THERE MAY BE FROM THE ORIGINAL PLAN.



PROPOSED END OF PROJECT



REPUBLIC OF THE PROLIPPORTS
BENGUET STATE
UNIVERSITY
LA TRIBODA, BONGLET, 2801

PROJECT TITLE / LOCATION:

REPAIR OF BSU LA TRINIDAD

CAMPUS ROAD NETWORK (BSU

MUSEUM TO BSU LAST GATE)

-BSU COMPOUND, KM.6, LA TRINIDAD,

BENGUET

SHEET CONTENT:

LOCATION MAP

SITE DEVELOPMENT PLAN

TABLE OF CONTENTS

SHERIFF JOHN C. LA MADRID
PROJECT DEVELOPMENT OFFICER

HAZELINE MUTBANGAY

CHECKED BY:

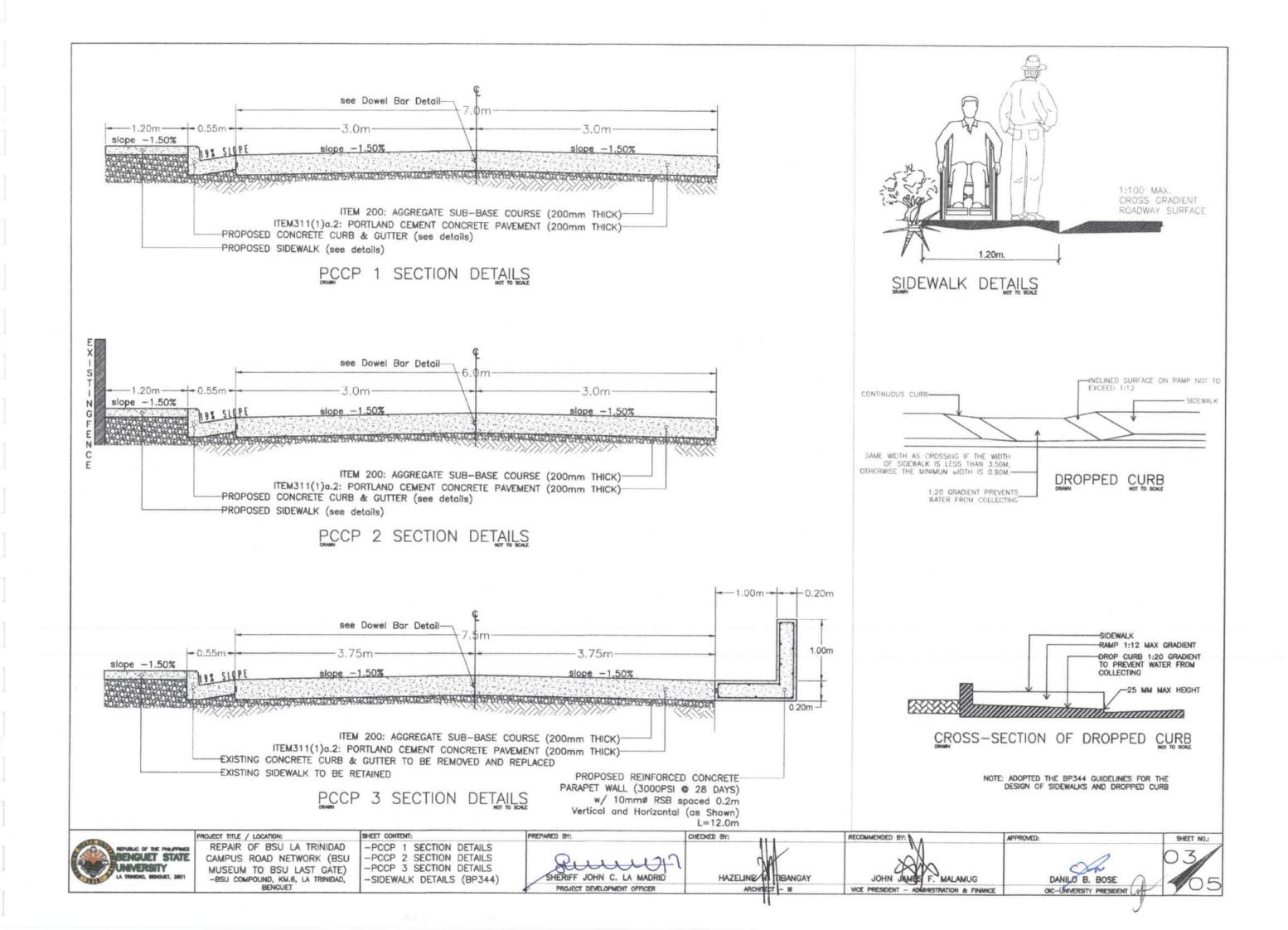
JOHN JAMES F. MALAMUG
VICE PRESIDENT - ADMINISTRATION & FINA

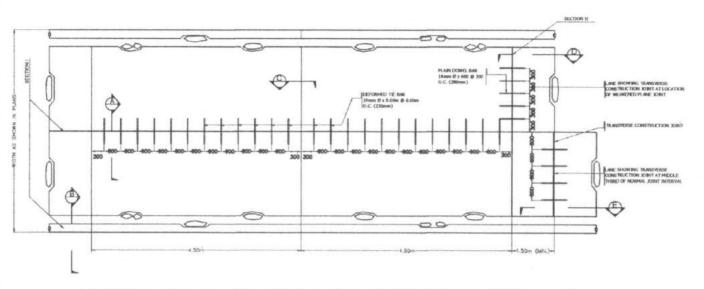
DANILO B. BOSE OIC-UNIVERSITY PRESIDENT

APPROVED:

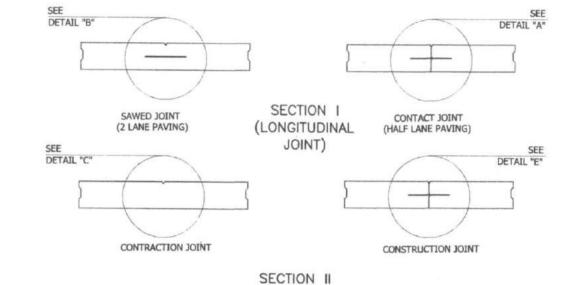


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X				7.5			
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STA	. 00+400			STA. 00+465 END OF EXISTING PCCI END OF PROPOSED CU END OF PCCP 3	P TO BE REMOVED AND REPLACED  JUST AND GUTTER TO BE WILLED  JUST THOMAS PLACED  PATRONIAL PLACED  PARTICIPATION OF THE PROPERTY OF THE PROPERT	ED ON THE EXIC	nn6
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PINES NTE	PROJECT TITLE / LOCATION:  REPAIR OF BSU LA TRINIDAD  CAMPUS ROAD NETWORK (BSU  MUSEUM TO BSU LAST GATE)  -BSU COMPOUND, KM.6, LA TRINIDAD,  BENGUET	STRAIGHT LINE DIAGRAM -STA. 00+000 - STA. 00+		HAZELINE IN TIBANGAY ARCHITECT III	JOHN JAMES F. MALAMUG VICE PRESIDENT - ADMINISTRATION & FINANCE	DANILO B. BOSE	SHEET NO.:
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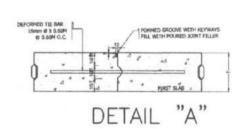


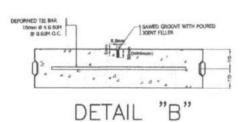


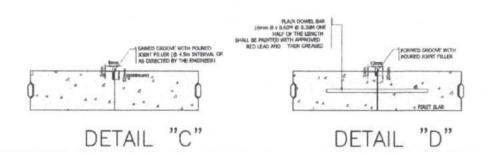
TYPICAL PLAN OF TWO LANE PAVEMENT (200mm)

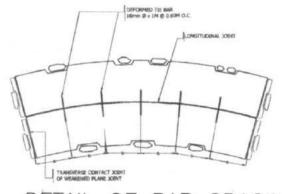


(TRANSVERSE JOINT)

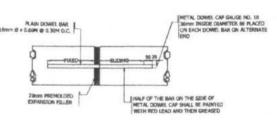




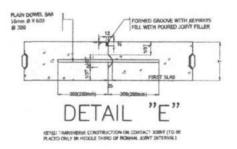






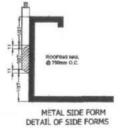


DETAIL OF EXPANSION JOINT (DOWELED) AT CERTAIN INTERSECTIONS AND STRUCTURES





CHECKED BY:



DETAILS OF JOINTS IN RIGID PAVEMENT

APPROVED:



PROJECT TITLE / LOCATION:

REPAIR OF BSU LA TRINIDAD

CAMPUS ROAD NETWORK (BSU

MUSEUM TO BSU LAST GATE)

-BSU COMPOUND, KM.6, LA TRINIDAD,

BENGUET

-TYPICAL PCCP DETAILS

SHEET CONTENT:

SHERIFF JOHN C. LA MADRID
PROJECT DEVELOPMENT OFFICER

HAZELINE NOTIBANGAY

JOHN JAMES F. MALAMUG
VICE PRESIDENT - ADMINISTRATION & FINANCE

RECOMMENDED B

DANIJO B. BOSE OIC-UNIVERSITY PRESIDENT

on A

## GENERAL NOTES

- ALL WORKS SHALL COMPLY WITH DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES, AND AIRPORTS, REVISED 2013, SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS PERTAINING TO THE PROJECT.
- UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS WHICH INCLUDE STATIONINGS, DISTANCE BETWEEN CONTROL POINTS AND DIMENSIONS OF PIPES AND BOX CULVERTS AS SHOWN IN THE PLAN, PROFILE, AND CROSS-SECTION ARE IN METERS. AND THE UNIT OF MEASURE AS SHOWN IN THE DETAILS OF STRUCTURES ARE IN METERS. STATIONINGS
- THE ROAD STATIONINGS AND ELEMENTS OF CURVES ARE RELATIVE TO THE ULTIMATE CENTERLINE OF THE ROAD.
- EQUATION OF STATIONS WHEN USED (BACK STATION/AHEAD STATION) ARE PROVIDED AT THE BEGINNING OR END THE CURVE AND/OR AT FULL STATION.
- HORIZONTAL CONTROL
- BASIC TRAVERSE STATIONS WERE ESTABLISHED BASED ON STATIONS OF EXISTING KM. POSTS AND EXISTING PERMANENT STRUCTURES AT THE PROJECT SITE.
- VERTICAL CONTROL
- ELEVATIONS WERE ASSUMED AT THE FIRST BENCH MARK AT THE BEGINNING OF EACH SECTION OF THE
- BENCH MARKS WERE ESTABLISHED AT EXISTING UNDISTURBED STRUCTURES AT DIFFERENT INTERVALS ALONG THE PROJECT.
- VI. HORIZONTAL ALIGNMENT
- THE HORIZONTAL ALIGNMENT SHOWN IN THESE DRAWINGS FOLLOWS THE LONGITUDINAL JOINT OF THE PORTLAND CEMENT CONCRETE PAVEMENT (WHICH IS DEFINED AS THE EXISTING CENTERLINE) WITH MINOR DEVIATION DUE MAINLY TO SOME CONSTRUCTION ERRORS DURING ORIGINAL CONSTRUCTION STAGE. MINOR ADJUSTMENT OF THE HORIZONTAL ALIGNMENT MAY BE MADE AS DIRECTED BY THE ENGINEER TO SUIT THE ACTUAL FIELD CONDITION.
- REMOVAL OF EXISTING STRUCTURES & OBSTRUCTIONS
- ALL WORKS SHALL COMPLY WITH CLAUSE 39 "REQUIREMENTS AND CONDITIONS OF CONTRACT" VOLUME-1 OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS AND HIGHWAYS, 2013.
- PORTIONS OF EXISTING UTILITIES, SUCH AS WATER MAINS, IRRIGATION CHANNELS, TELEPHONE POST AND TRUNKLINES, ETC. THAT MAY CAUSE OBSTRUCTION TO THE CONSTRUCTION OF THIS PROJECT SHALL BE RELOCATED BY THE ENTITY OR OWNER CONCERNED, EXTREME PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR NOT TO DAMAGE ANY SECTION OF THE EXISTING PUBLIC UTILITIES DURING CONSTRUCTION. ANY REPAIR OF DAMAGE THEREOF SHALL BE ON THE ACCOUNT OF THE CONTRACTOR. ANY REMOVAL OF MISCELLANEOUS STRUCTURES THAT MAY BE REQUIRED SHALL BE CONSIDERED SUBSIDIARY WORK PERTAINING TO OTHER CONTRACT ITEM. NO DIRECT PAYMENT SHALL BE MADE FOR THIS WORK EXCEPT FOR SPECIFIC ITEMS EXPLICITLY IDENTIFIED FOR PAYMENT IN THE BID SCHEDULE.
- VIII. ROAD CONNECTIONS AND PRIVATE ENTRANCES
- APPROACHES AND ROAD ENTRANCES SHALL BE CONSTRUCTED BY THE CONTRACTOR AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN SUCH A MANNER TO ENSURE SMOOTH CONNECTIONS AND RIDING
- NO OPENING FOR DRIVEWAYS OR PRIVATE ENTRANCES SHALL BE ALLOWED EXCEPT WITH THE PRIOR APPROVAL FROM THE PROPER AUTHORITIES.
- DRAINAGE STRUCTURES
- EXACT LOCATIONS, SLOPES, OUTFALLS, AND INVERT ELEVATIONS OF DRAINAGE STRUCTURES SHALL BE CHECKED IN THE FIELD BY THE ENGINEER. MINOR ADJUSTMENT MAY BE MADE WITH THE APPROVAL OF THE ENGINEER TO SUIT ACTUAL FIELD CONDITIONS.
- ANY REVISIONS, REMOVAL AND/OR RELAYING OF DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER TO SUIT EXISTING FIELD CONDITIONS SHALL BE CONSIDERED AS SUBSIDIARY WORK PERTAINING TO OTHER CONTRACT ITEMS. NO DIRECT PAYMENT SHALL BE MADE FOR THIS WORK UNLESS OTHERWISE SPECIFICALLY IDENTIFIED FOR PAYMENT IN THE BID SCHEDULE.
- EXISTING DRAINAGE STRUCTURES OR PART THEREOF REMOVED BY THE CONTRACTOR THAT ARE STILL SERVICEABLE SHALL BE TURNED OVER TO THE GOVERNMENT AND SHALL BE DEPOSITED AT A PLACE WITHIN THE PROJECT SITE DESIGNATED BY THE ENGINEER WITHOUT ANY EXTRA COMPENSATION. EXTREME PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR NOT TO DAMAGE THESE MATERIALS DURING THE REMOVAL AND HANDLING. STRUCTURAL CONCRETE STRUCTURES
- X.1) CONCRETE
- UNLESS OTHERWISE INDICATED ON THE PLANS, THE MINIMUM CYLINDER STRENGTH OF STRUCTURAL CONCRETE @ 28 DAYS SHALL BE 21.00 MPa.
- THE MINIMUM COVERING FROM SURFACE OF CONCRETE TO THE FACE OF THE NEAREST BAR SHALL BE 50mm. ALL CONCRETE SHALL BE POURED WHERE THERE IS A PERMISSIBLE WEATHER CONDITION AND NO OTHER ENVIRONMENTAL HAZARD WILL AFFECT THE POURING.
- X.1) REINFORCING STEEL
- REINFORCING BARS FOR ALL STRUCTURES SHALL BE GRADE 60 (Fy=414 MPa) FOR BARS LARGER THAN 16 mm DIAMETER. GRADE 40 (Fy= 275.8 MPg) FOR BARS 16 mm DIAMETER OR SMALLER. ALL REBARS SHALL BE FREE OF MILL SCALES, OIL OR ANY SUBSTANCE THAT MAY IMPAIR/WEAKEN BOND WITH CONCRETE.

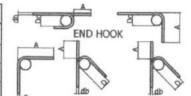
a) REINFORCING BAR SPLICING

WHERE SPLICING IS PERMITTED, THE MINIMUM LAP LENGTH OF BARS SHALL BE AS PER AASHTO ARTICLE 8.32. ALL SPLICES SHALL BE STAGGERED AT LEAST 40 BAR DIAMETER. WHERE BUTT WELD IS USED IN LIEU OF LAPPED CONNECTIONS, THIS SHALL DEVELOP AT LEAST 125 % OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCING STEEL BAR, REINFORCING BARS SHALL BE ACCURATELY FORMED TO THE SHAPES AND DIMENSIONS INDICATED ON THE PLAN UNLESS OTHERWISE PERMITTED, ALL REINFORCING BARS REQUIRING BENDING SHALL BE BENT COLD. WHEN REINFORCING BARS ARE BENT BY HEATING, THE ENTIRE OPERATION SHALL BE APPROVED BY THE ENGINEER. b) HOOKS AND BENDS

HOOKS AND BENDS SHALL BE AS SHOWN IN THE FOLLOWING TABLE

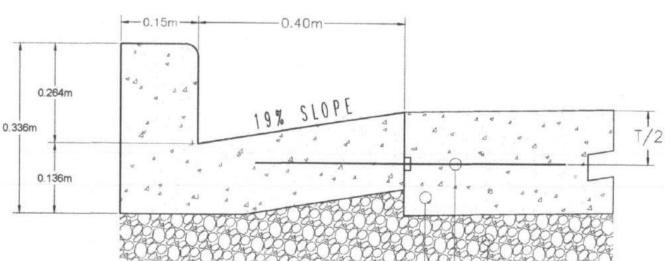
## TABLE FOR VALUES OF A OR G

SIZE	END HOOKS ST		HOOKS STIRRUP & TIE		STIRRUP	
BARS	180°	90°	90°	135°	135°	
10	125	150	100	100	125	
12	150	200	113	113	163	
16	175	250	150	138	200	



STIRRUP & TIE HOOK STIRRUP - TIE Do = 6 db for db < 30 D = 4 db for db < 20Do = 8.7 db for db > 30D = 6 db for db > 30

- SLOPE/EMBANKMENT PROTECTION WORKS (GROUTED RIPRAP/STONE MASONRY)
- FOUNDATION OF EMBANKMENT PROTECTION WORKS SHALL SIT ON A FIRM AND STABLE FOUNDATION. SOIL BORING TEST SHALL BE CONDUCTED DURING CONSTRUCTION TO VERIFY THE ACTUAL SOIL BEARING CAPACITY OF SOIL. SOFT SPOTS UNDER THE FOUNDATION SHALL BE REMOVED AND REPLACED WITH SUITABLE BEDDING MATERIALS OR CONCRETE CLASS "B".
- SOFT SPOTS BETWEEN THE CUT FACE AND SLOPE/EMBANKMENT PROTECTION WALLS MUST BE FILLED WITH ROCKS OR SUITABLE MATERIALS. SUCH BACKFILL MATERIALS PLACED BEHIND THE WALL SHALL BE FREE DRAINING, NON EXPANSIVE AND WATER SHALL BE DRAINED BY WEEPHOLES PLACED AT SUITABLE INTERVALS AND ELEVATIONS.
- THE DEPTH OF PENETRATION SHALL BE MEASURED FROM THE LEVEL OF THE ORIGINAL GROUND SURFACE AND SHALL NOT INCLUDE EXCAVATED MATERIALS.
- THE THICKNESS OR DIAMETER OF STONES FOR STONE MASONRY SHALL NOT BE LESS THAN 150MM.
- BATAS PAMBANSA BLG. 344 (ACCESSIBILITY LAW) IN ACCORDANCE TO BATAS PAMBANSA BLG. 344, ACCESSIBILITY FOR THE DISABLED PERSON SHALL BE PROVIDED AT THE DESIGNATED PLACED IN BUILT-UP AREAS ALONG THE PROJECT ROAD, THE IMPLEMENTING OFFICE SHALL IDENTIFY THE LOCATIONS OF AND PROVIDE ACCESSIBILITY FACILITIES FOR PERSONS WITH DISABILITY AND ACCORDANCE WITH D.O. 37 SERIES OF 2009.



ITEM311(1)a.2: PORTLAND CEMENT CONCRETE PAVEMENT (200mm THICK) 12mm # TIE BARS (Deformed) Spaced @ 0.60m O.C.

ITEM 200: AGGREGATE SUB-BASE COURSE (200mm THICK)

TYPICAL CURB AND GUTTER SECTION DETAILS

ENGUET STATE UNIVERSITY

PROJECT TITLE / LOCATION: REPAIR OF BSU LA TRINIDAD CAMPUS ROAD NETWORK (BSU MUSEUM TO BSU LAST GATE) -BSU COMPOUND, KM.6, LA TRINIDAD, BENGUET

SHEET CONTENT: -GENERAL NOTES -TYPICAL CURB AND GUTTER SECTION DETAILS

Acution SHERIFF JOHN C. LA MADRID PROJECT DEVELOPMENT OFFICER

PREPARED BY

HAZELINE M BANGAY ARCHITECT H III

CHECKED BY

RECOMMENDED BY: JOHN JAMES MAI AMUG VICE PRESIDENT - ADMINISTRATION & FINANCE

DANILO B. BOSE OIC-UNIVERSITY PRESIDENT

APPROVED:

SHEET NO .: