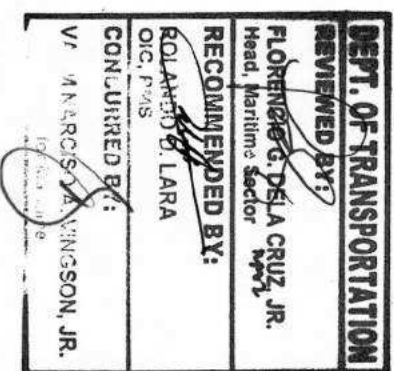
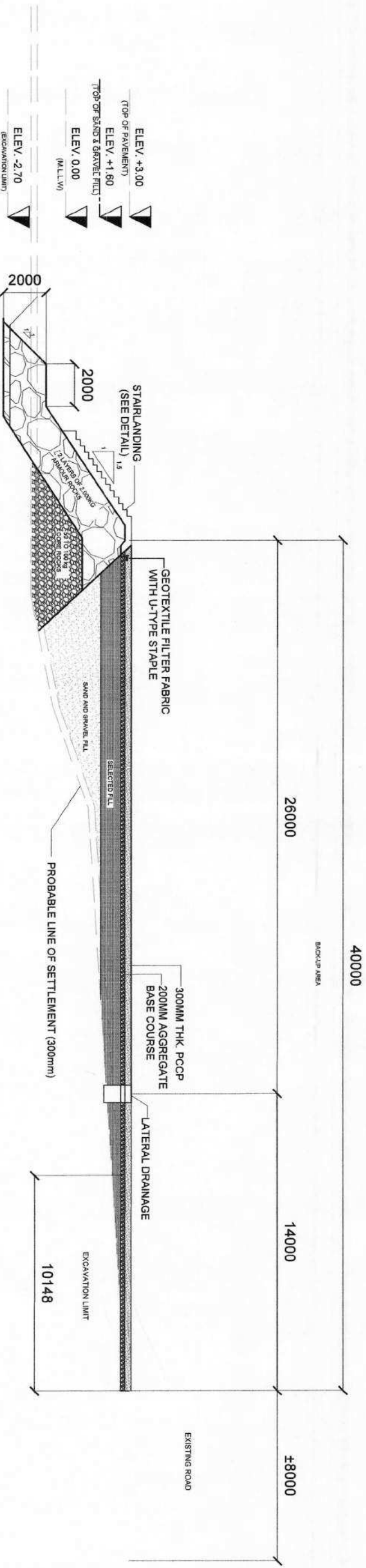
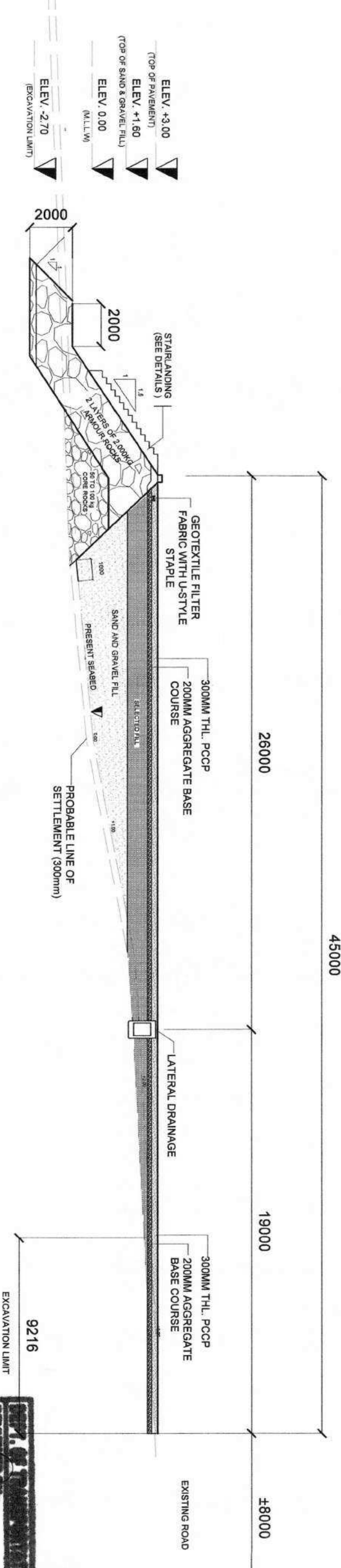






SECTIONAL ELEVATION @ STA. 0+040
SCALE 1 : 250



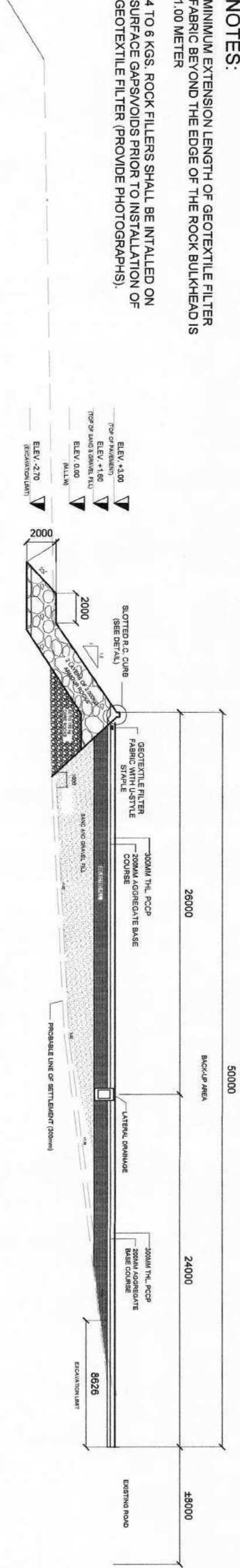
SECTIONAL ELEVATION @ STA. 0+060
SCALE 1 : 350

REVIEWED BY:
ROLANDO D. LARA
OIC, PMS
CONCURRED BY:
VADM NARCISO K. VINCIGUON, JR.
Assoc. IV Member

NOTES:

MINIMUM EXTENSION LENGTH OF GEOTEXTILE FILTER FABRIC BEYOND THE EDGE OF THE ROCK BULKHEAD IS 1.00 METER

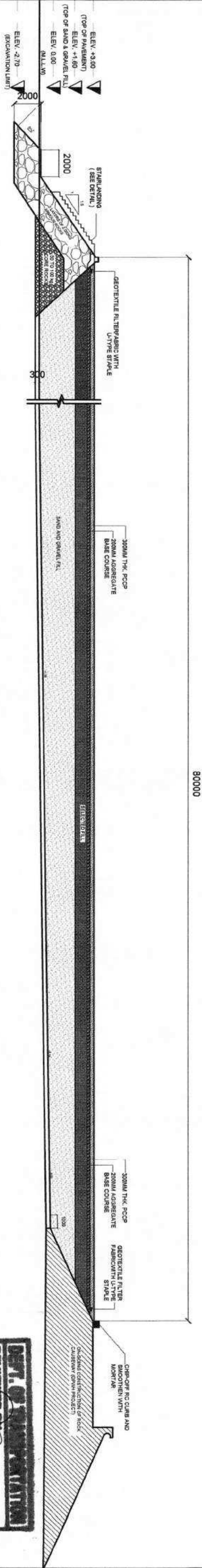
4 TO 6 KGS. ROCK FILLERS SHALL BE INTALLED ON SURFACE GAP/VOIDS PRIOR TO INSTALLATION OF GEOTEXTILE FILTER (PROVIDE PHOTOGRAPHS).



SECTIONAL ELEVATION @ STA 0+080

SCALE

1 : 300



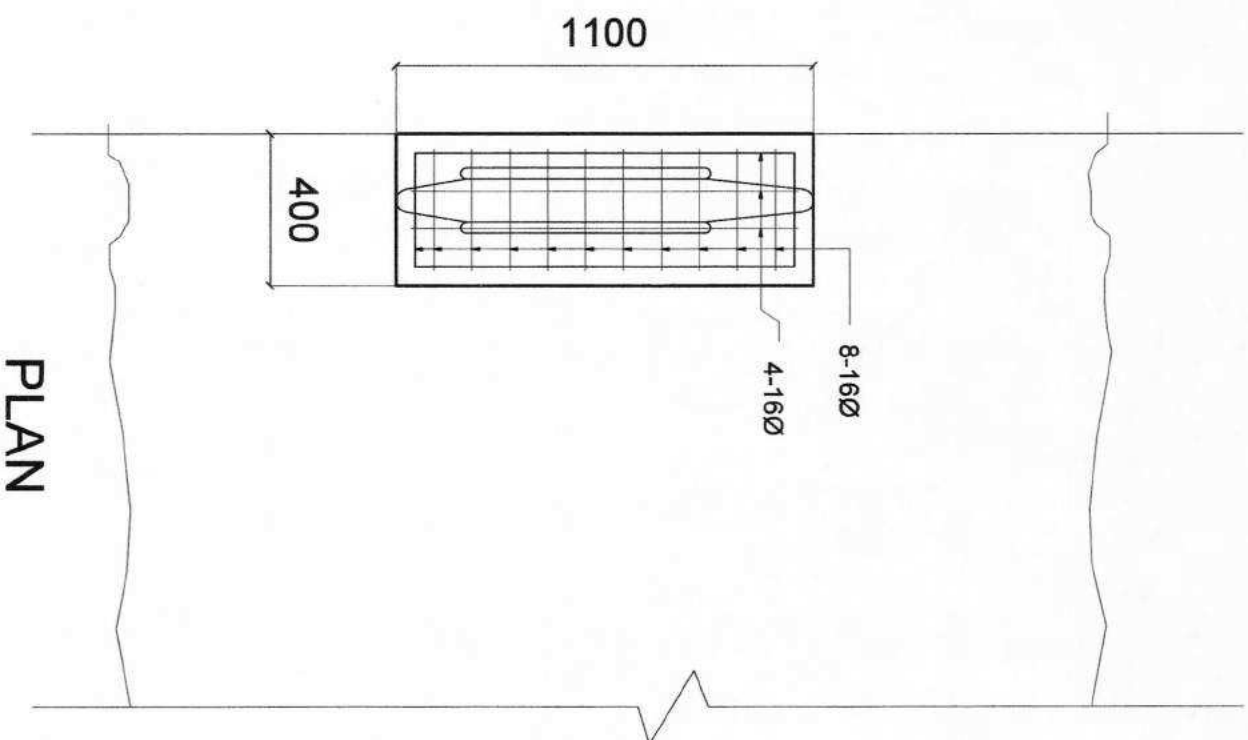
SECTIONAL ELEVATION @ STA A-A

SCALE

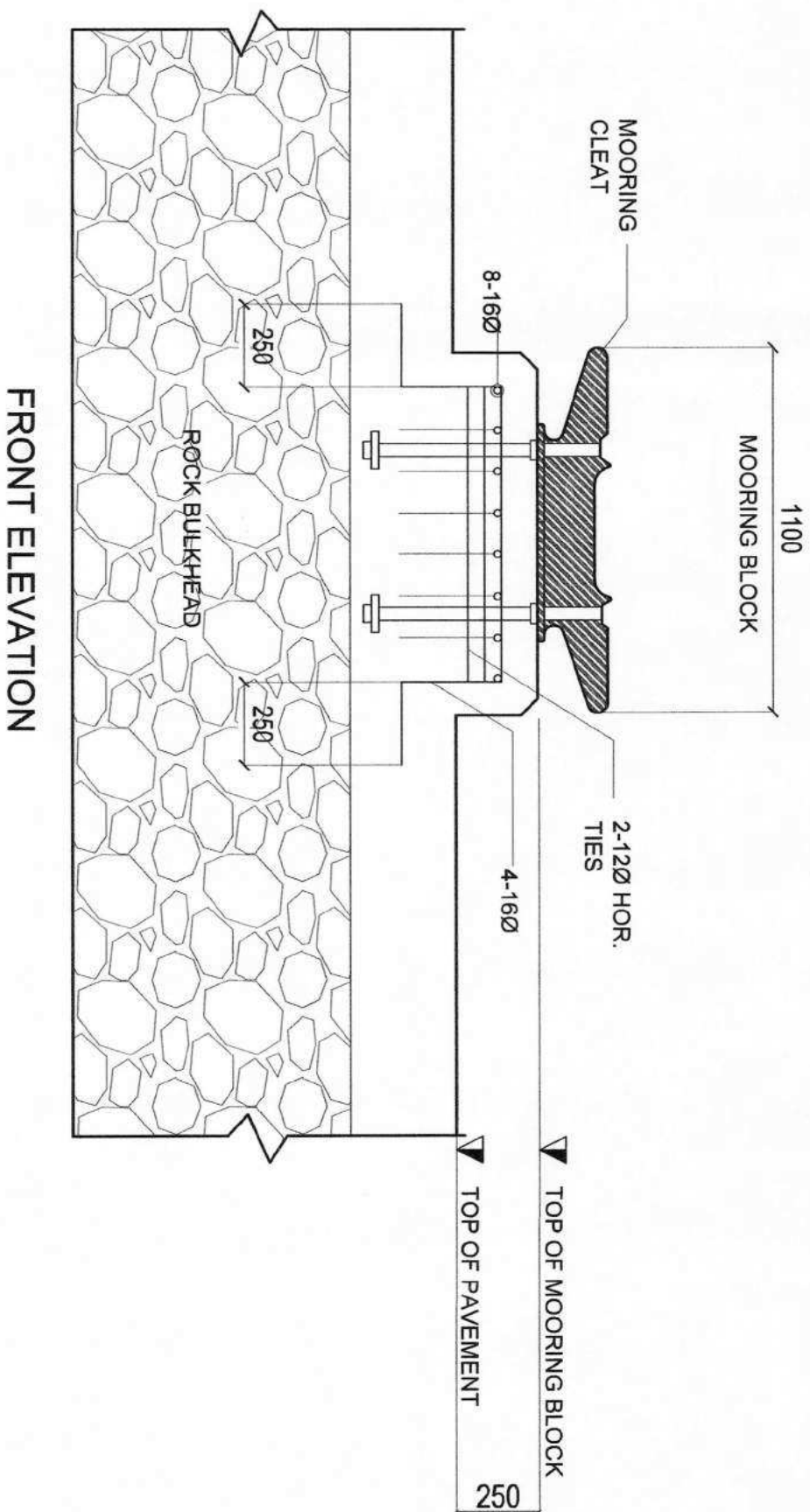
1 : 300

DEPT. OF TRANSPORTATION
REVIEWED BY: FLORENCE DELA CRUZ, JR. Head, Maritime Sector
RECOMMENDED BY: ROLANDO L. LAGA OIC, PMS
CONCURRED BY: V. A. DM NARCISO A. VINGSON, JR. Assoc. to Regional

PHILIPPINE PORTS AUTHORITY PMA NORTHERN LUZON ENGINEERING SERVICES DIVISION	PROJECT TITLE: CONSTRUCTION OF CALAYAN PORT AT CALAYAN, CAGAYAN				APPROVED BY: MARIETA G. ODICTA PORT MANAGER, PMA - NORTHERN LUZON
	PREPARED BY: JARED JOHN MENDOZA REGISTERED ASSISTANT II	CHECKED BY: RYAN B. MERCADO SUPERVISING ENGINEER A	REVIEWED BY: DEMOSTHENES P. FERRARO PRINCIPAL ENGINEER	RECOMMENDED BY: CRISANTO A. ALBA ESD MANAGER	
SHEET CONTENT:					5-12



PLAN

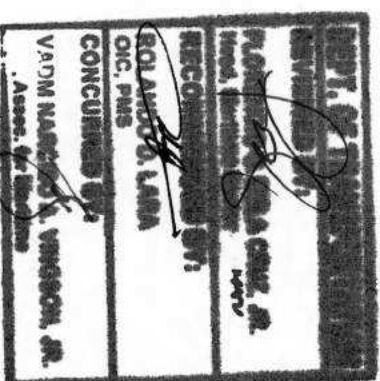


FRONT ELEVATION

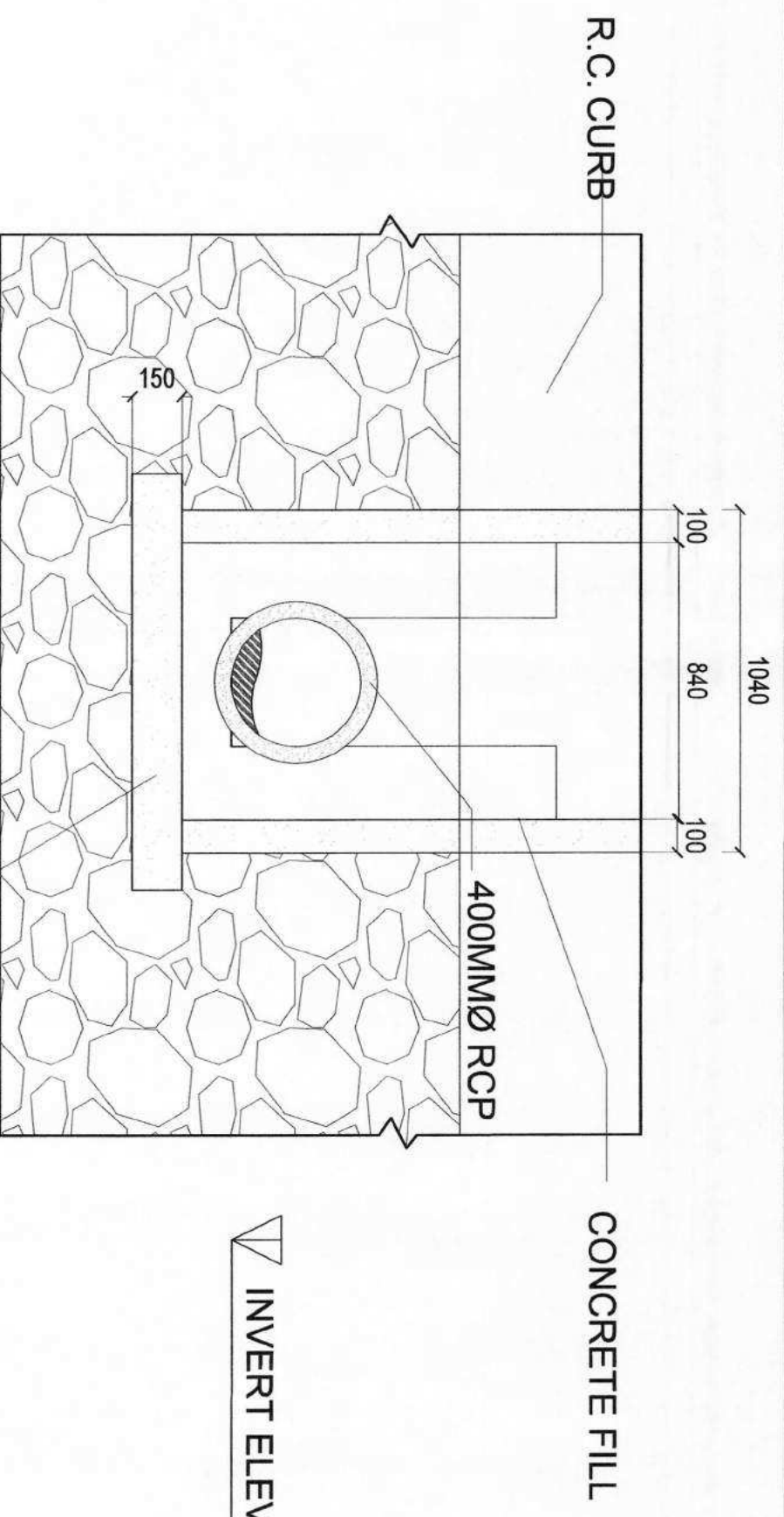
TYPICAL REINFORCEMENT MOORING CLEAT

SCALE

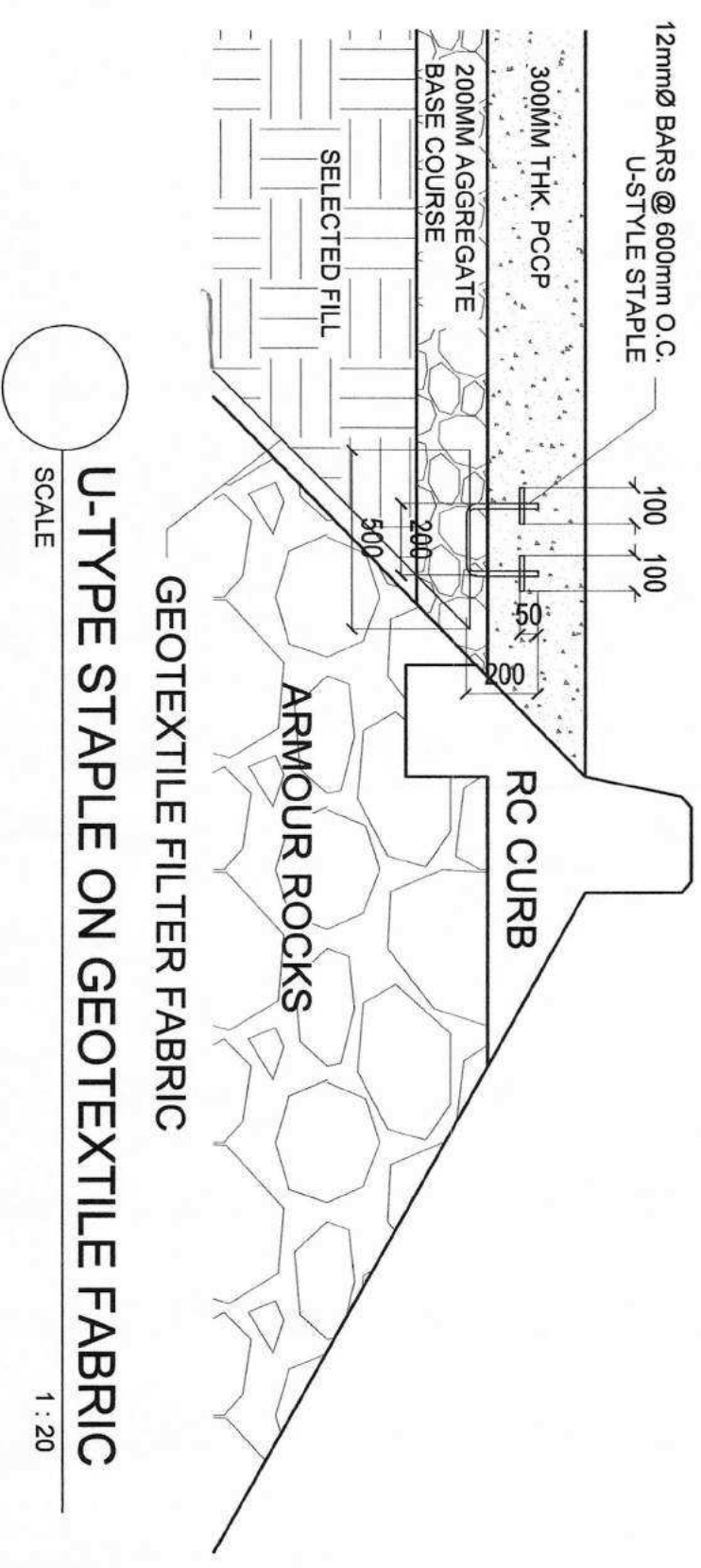
1 : 20



PHILIPPINE PORTS AUTHORITY PORTS AUTHORITY PORTS AUTHORITY ENGINEERING SERVICES DIVISION	PROJECT TITLE: CONSTRUCTION OF CALAYAN PORT AT CALAYAN, CAGAYAN PREPARED BY: JARED JOHN MENDOZA RESEARCH ASSISTANT II CHECKED BY: RYAN B. MERCADO SUPERVISING ENGINEER A	REVIEWED BY: DEMOSTHENES P. FERRARO PRINCIPAL ENGINEER RECOMMENDED BY: CRISANTO A. ALBA ESD MANAGER	APPROVED BY: MARIETA G. ODICTA PORT MANAGER, PNO - NORTHERN LUZON	SHEET CONTENT:	7-12
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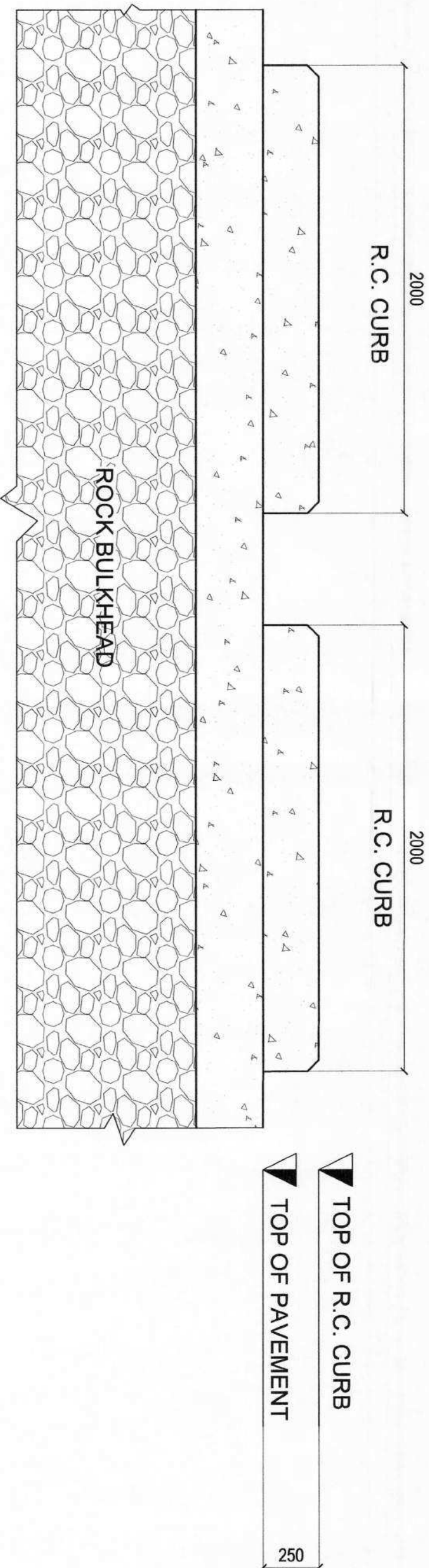
TYPICAL SECTION @ OUTFALL
SCALE 1 : 20



U-TYPE STAPLE ON GEOTEXTILE FABRIC
SCALE 1 : 20

DEPT. OF TRANSPORTATION
NORTHERN LUZON
PORT MANAGER
ROLANDO D. LARA
OIC, PMS
CONCURRED BY:
NARCISO A. VINCEN, JR.
Assec. for Planning

PHILIPPINE PORTS AUTHORITY PMA NORTHERN LUZON ENGINEERING SERVICES DIVISION	PROJECT TITLE: CONSTRUCTION OF CALAYAN PORT AT CALAYAN, CAGAYAN PREPARED BY: JARED JOHY MENDOZA RESEARCH ASSISTANT II CHECKED BY: RYAN B. MERCADO SUPERVISING ENGINEER A	REVIEWED BY: DEMOSTHENES P. FERRARO PRINCIPAL ENGINEER	RECOMMENDED BY: CRISANTO A. ALBA ESD MANAGER	APPROVED BY: MARIETA G. ODICIA PORT MANAGER, PMA - NORTHERN LUZON	SHEET CONTENT: 8-12
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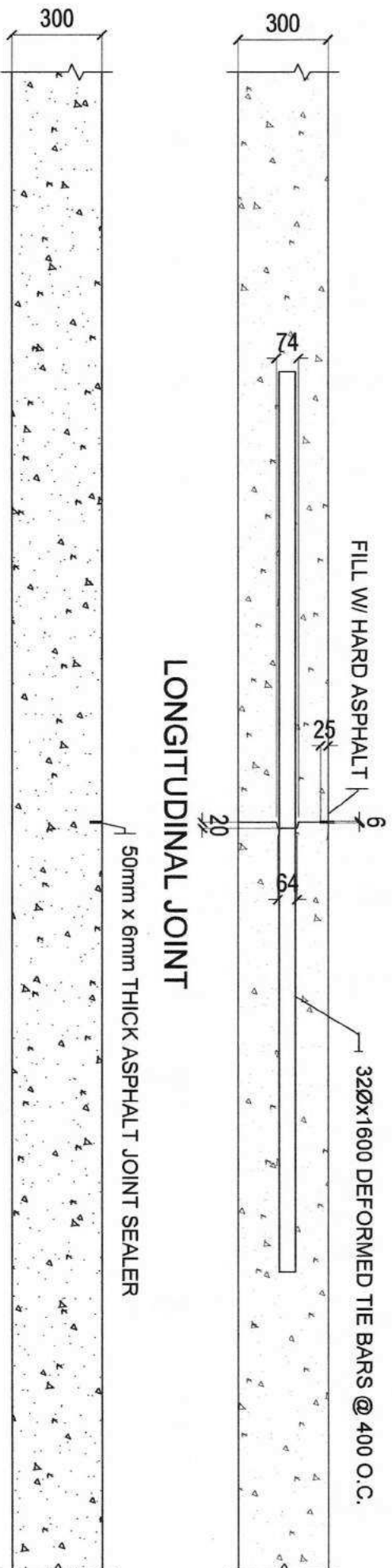


FRONT ELEVATION

LAYOUT OF SLOTTED R.C. CURB

SCALE

1 : 20



LONGITUDINAL JOINT

SAWED JOINT

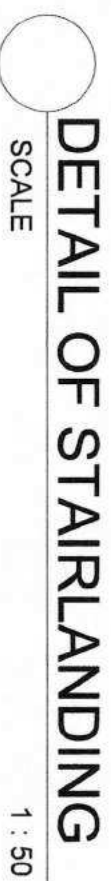
DETAIL OF PAVEMENT JOINT

SCALE

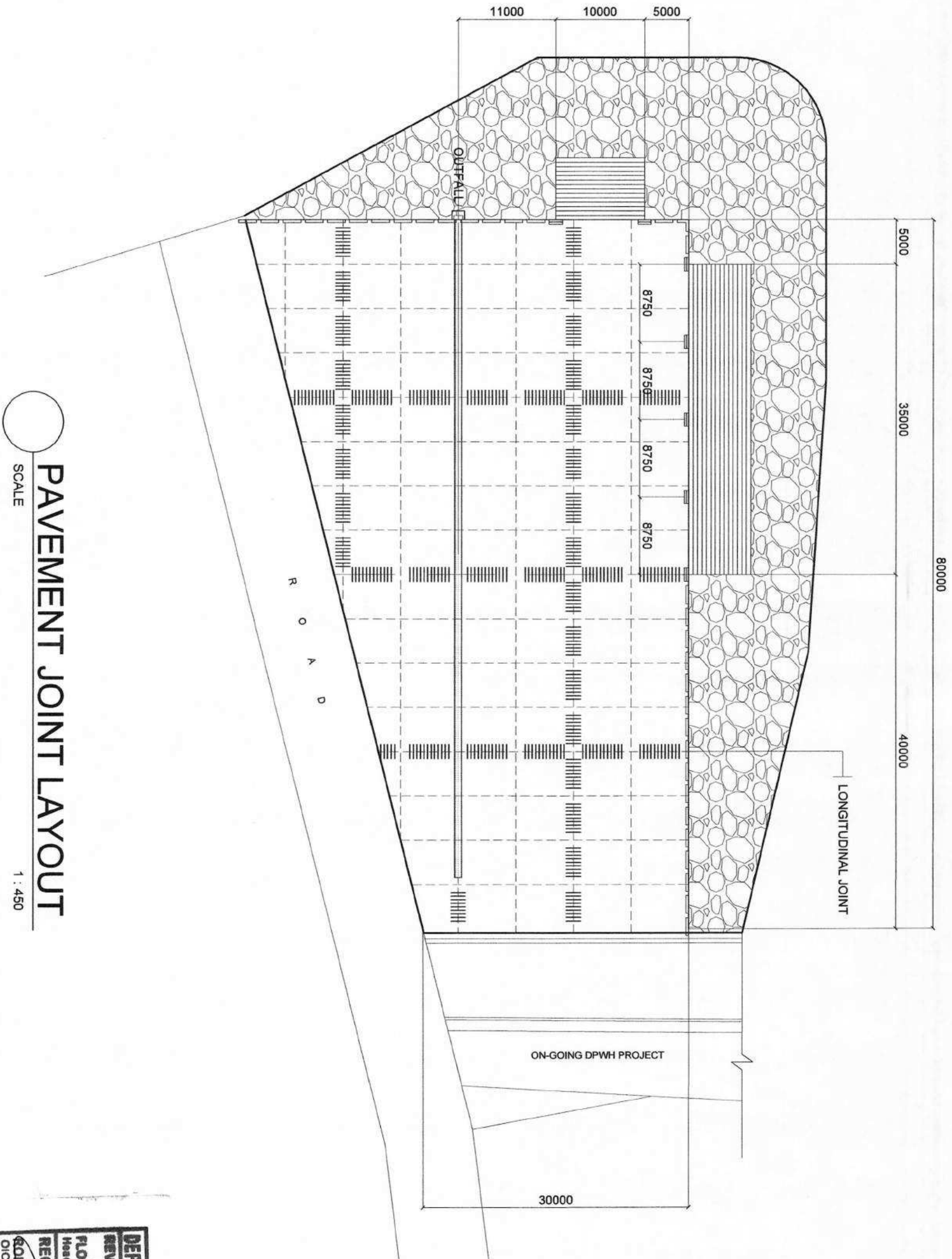
1 : 20

DEPT. OF TRANSPORTATION
REVIEWED BY: FLORENCE A. CRUZ, JR. Head, Maritime Sector
RECOMMENDED BY: BOLANJO D. LARA OIC, PMS
CONCURRED BY: V. NARCISO A. JIMOSON, JR. Sec. for Maritime

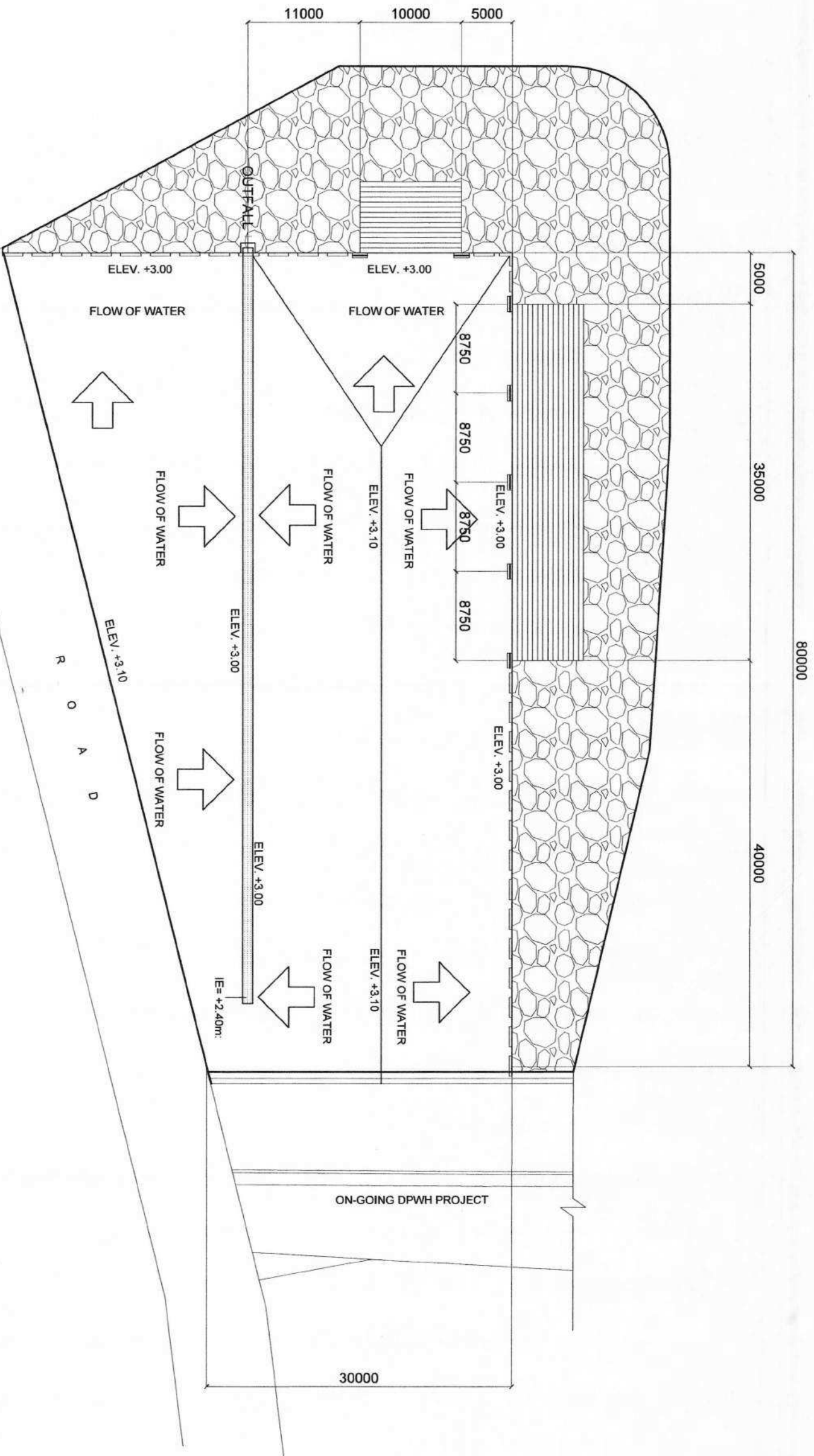
PHILIPPINE PORTS AUTHORITY PMA NORTHEN LUZON ENGINEERING SERVICES DIVISION		PROJECT TITLE: CONSTRUCTION OF CALAYAN PORT AT CALAYAN, CAGAYAN		SHEET CONTENT:	
PREPARED BY:	CHECKED BY:	REVIEWED BY:	RECOMMENDED BY:	APPROVED BY:	
JARED JOHN MENDOZA RESEARCH ASSISTANT II	RYAN B. MERCADO SUPERVISING ENGINEER A	DEMOSTHENES P. FERRARO PRINCIPAL ENGINEER	CRISANTO A. ALBA ESD MANAGER	MARETA G. ODICTA PORT MANAGER, PMA - NORTHEN LUZON	9-12



DEPT. OF TRANSPORTATION
RECEIVED BY:
FLORIAN, J. A. CRUZ JR.
Head, Motor Vehicle
RECORDED BY:
ROLANDO, LARA
OIC, PMS
CONCURRED BY:
VADM NARCISO N. VINGSON, JR.
Assoc. for Maritime



DEPT. OF TRANSPORTATION
REVIEWED BY: FLORENCE A. CUE, JR.
Head, Maritime Group
RECOMMENDED BY: GOLANNO D. LANA
OIC, PMS
CONCURRED BY: VADIM NARCISO A. YONGSON, JR.
Assec. for Maritime



DRAINAGE LAYOUT PLAN

SCALE 1 : 450

DEPT. OF TRANSPORTATION
REVIEWED BY: *[Signature]*
FLORENDO DELA CRUZ, JR.
Head Marine Sector
RECOMMENDED BY: *[Signature]*
ROBERTO LARA
OIC. PMO
CONCURRED BY: *[Signature]*
VANDERLINO A. VIKSON, JR.
IN-CHARGE FOR NORTH Luzon

PHILIPPINE PORTS AUTHORITY PMO NORTH LUZON ENGINEERING SERVICES DIVISION 		PROJECT TITLE: CONSTRUCTION OF CALAYAN PORT AT CALAYAN, CAGAYAN									
PREPARED BY:	 JARED JOHN MENDOZA RESEARCH ASSISTANT II	CHECKED BY:	 RYAN B. MERCADO SUPERVISING ENGINEER A	REVIEWED BY:	 DEMOSTHENES P. FERRARO PRINCIPAL ENGINEER	RECOMMENDED BY:	 CRISANTO A. ALBA ESDMANAGER	APPROVED BY:	 MARIETA G. ODICTA PORT MANAGER, PMO - NORTH LUZON	SHEET CONTENT:	
12-12											