授-2 屋瀬芝蛟雄然の顧躬(両旨) (3/4)

[	<b>新</b>	F-1		1	ı	ı	1	1
-	関値							
	施祭滅所し治の路田	・本グロス複数海路の複数で電影・ ・周期にしばしば火焰不能となる ・光焰塵が比較的多い ・地域社会に対するインパクトが大きい	・工事が簡単 ・ が適慮が多い ・ 地域社会に対するインパクトが大きい	・同一区間内に多数の問題権繋がある	・精修工事が発元等が受売終了	· 永久緒 · 現標状態良好	・同一区間内に多数の問題権家がある・女達整が殆どない	・同一区間内に多数の問題格響がある
	语 文 次	<b>∀</b>	œ	ρά	œ	<b>M</b>	<b>4</b> :	Ą
	<b>高</b> 淡路现况	附	間 和	樹	柳	斑	御	成
<b>商品粉本设</b> 年	蘇び形式	以予 とこれ は	口労産ホヘン協議	元が優化へこを表	<b>元が磐花へこ地路</b>	心を指示 へい路線	山が でが が 続	田労登先 へて対象 のでは対象
麻	<b>確</b> 成 <sup>(E)</sup>	3@18.0 154.00	2@18.0 -36.00	2@18.0 -36.00	1@18.0 -18.00	2@35.0 - 76.00	2@17.0 ™34.00	2 @20.0 46.00
1	存 章	₹¥ 184	₩ ₩	権	桓	南	超	<b>HE</b>
	(中)	250	009 1	1, 002	619	891	200	400
	# 4 3	534, 427	52, 914	33, 806	11, 675	217, 925	23, 239	80, 262
	(1) (1) (2)	80	in	ľ	0.	60	ís	in.
93	斑。	樹	獎	<b>要</b>	圈	图	施養	*
級		<b>\$</b> 1	が 在 在		¥3	É	<b>₩</b>	程
姦	<b>办</b>	スピルウェイ	ねーニーング	が、一つで、	长	・ 蘇 (スイン・タイン)	*	Ž
	書) 8 成(	23. 80	12,00	12. 20	10, 70	61.50	26. 60	32.30
鉄	森	06-04-03. 13yman Bridge (m. 25 + 86. Bacolod-Warcia-D.S. Bandicto-San Carlos Bdry. Wegros Occidental.	07-03-03 Cantangon Bridge Kn. 27 + 590 From Port of Tagbilaran City, Catagasan Antquera Rada	07-03-05 Hinabuyan Bridge Km. 68 + 00 From Port of Tagbilaran Crom Port of Tagbilaran Crom Port of Tagbilaran Cromen-Danoa Boad Garmen, Bohol I	07-14-01 Cabawan Briege Kr. 8 + 820 Teghilaran-Cabawan Doad Tagbilaran, Behol I.	07-05-04 Camp 4 Bridge Camp 7 7 + 92 Talisay-Toledo Road Talisay- Cebu II	07-05-164 Gra- Bridge Km. 15-+ 180 Saga-Borbon Brad Borbon, Cebu II	07-18-06. Tingo-Calindagan Bridge Kr. 3 + 62 Tingo-Calindangan Boad Dunguete City
梅	ďΥ	16	19	20	25	35	22	82

**桜-2 越治な紫癜喉の凝躬(過程) (4/4)** 

0	त्र १६०		,				
2	्र वि	H	1		r-1	<del></del>	r-4
	<b>複然 蘇院 凹陷 の 歐田</b>	・工事が簡単 ・交通量が多い ・	• 永久橋 • 現樣大雅島子	・地域社会に対するインパクトが強い・比較的党国権が多い	・上・下部工共に老朽化が数しい	· 工事が簡単 - 緊急性が高い	・当政社会に対するインペットが大きに・森建があれた(毎日下路口)的政党対略・カン国連道路に位置し国際な権は・カン国連道路に位置し国際な権は
	· 古安铁记	A	¥	α	œ	Ω	Ą
	輸送路現记	英	政	部	谢	脚	斑
摄略塔本数针	植物形状	口が鍵た この発験	の形質でくら、金融	出形質だべい出職	11の対応へい 水道	の形盤花へい路線	<b>必須設在へいお額</b>
遊	編 以(n)	1 @18 0 -18 00	1@18.0 -18.00	1@18.0	3@15.9	2@15.0 =30.00	1@35.0 -35.00
2 第 第	<b>텔</b> 년 양	模	摊	拖	矮	) (5)	hi 쇼
章 原状25原 FF		300	493	091	09	09	128
L X	3	30, 262	59, 240	55.674	66, 609	91, 841	47, 989
	金数集展 (1)	01	រេ	ഗ	ω	ហ	មា
現 祝	現	樹	梅	<b>游</b> 克森	地 森	说 露	<b>水石</b>
祭	形式	スピルウェイ	鉄筋コンクリート橋	ベイリー権	ベイジー館	熬	着しごと入
	額 ) 日 奴(	10.00	14.80	12.00	37, 90	23, 15	27. 00
機 森 禄 物 市 市 台	( ) (型	29 07-08-074 City Ponda Bridge Fm. 6 + 346 Balugo-Vicina Boad Dunagete City	31 07-15-07A Cabitoonan Bridge Km. 52 + 000 Toledo-Pinsanagahan Boud Toledo City	33 07-04-07A Canillac Bridge Ka. 63 + 410 Ingna-Sierra Bullones Boad, Bohol II	35 Or-04-11A Carcod Bridge Km. 93 + 238 Candijay-Mabini Boad Candijay, Bobol II	36 07-04-12A Tipolo Bridge Kr. 132 + 358 Day-Tagal Warf Boad Ubay, Bohol II	38 UT-05-09A Vlaye, II Bridge Kn. 63 + 600 Barill, Mantarupan Boad Barill, Cebu II

#### 付属資料5

現地立会協議議事録

## I-1~!! REI

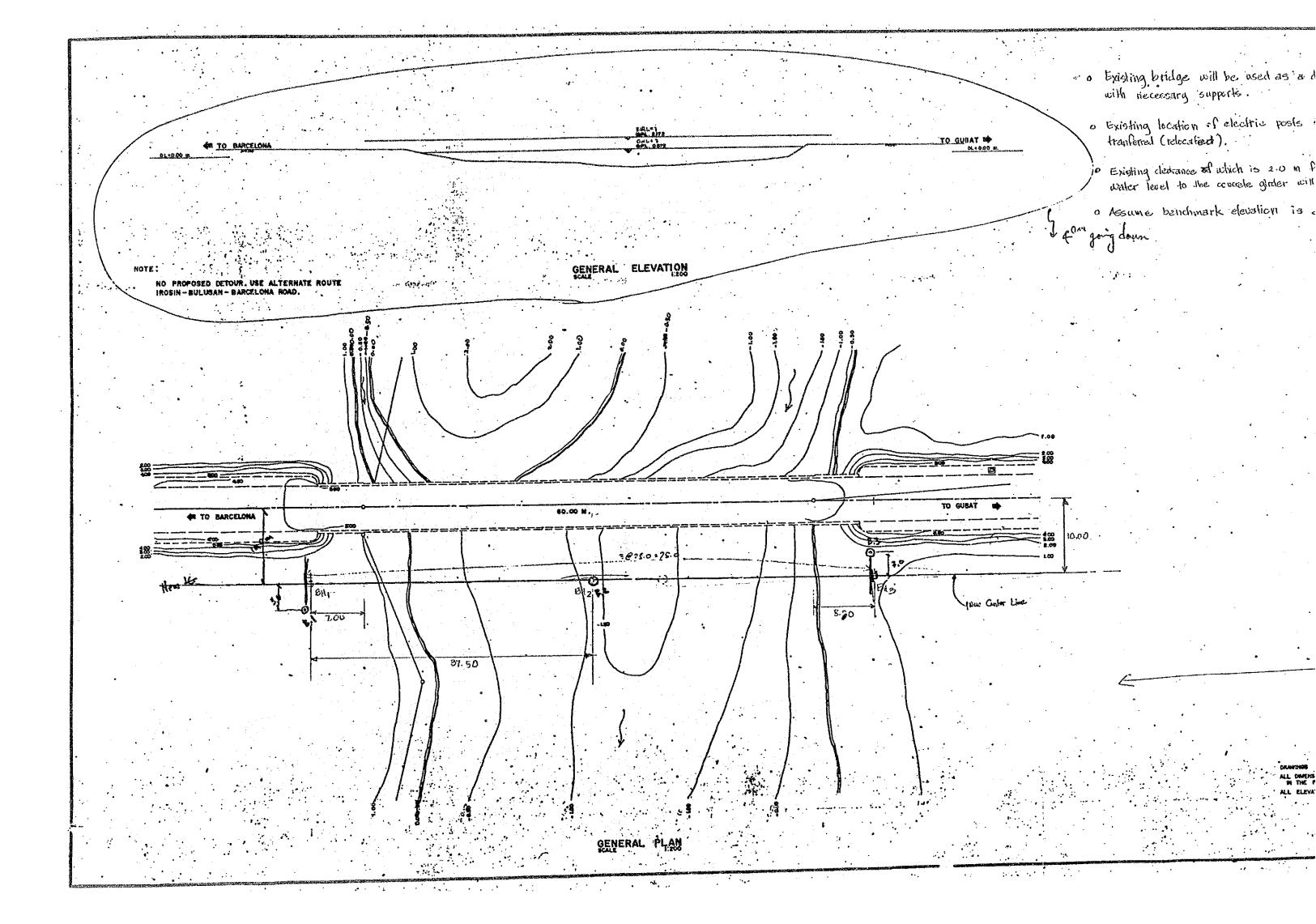
#### KATAHIRA & ENGINEERS INTERNATIONAL

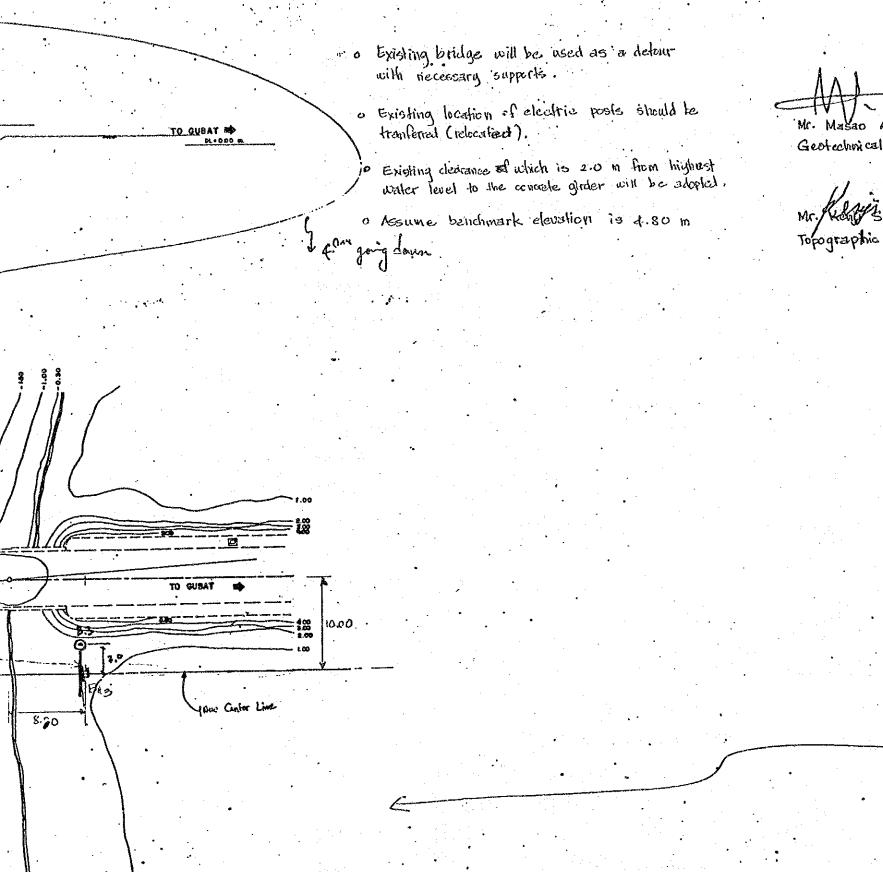
TOKYO, JAPAN



Taurukama Bidg., 4-8-9 Ginza Chuo-ku, Tokyo, Japan Cable Addresa: ENGKATAHRA TOKYO Telaphona: 03-583-4053 Telax: 2523838 KATAEG J Facelmile: 03-583-4055

Date: <u>July 7, 1992</u>
Gentlemen,
In connection with the Japan's Grant Aid, the Project for Constructing Bridges Along Rural Roads (Phase IV, Group 2), Katahira & Engineers International and representatives from DPWH (Central, Regional and District Offices) hereby agree on the following items for the construction of SANOUR ROHAL Bridge;  1. The proposed centerline will be located at the downercam
of the bridge.
<ol> <li>The Right-of-Way Acquisition and removal of all obstructions (to be undertaken by the DPWH)</li> </ol>
3. Location of proposed detour at existing bridge
4. Highest Water Level, 1.00 m.
5. Location of Bore Holes Three (3) bore holes is indicated in the plan.
Attached herewith is the plan showing the above agreed items.
Names and signatures of Representatives are shown below.
DPWH Central Office DPWH Regional Office
Mr. Edwin C. Mataraulhan Mr. Conrado Marco (Regional Pirector, Reg. V)
Mr. Lesus L. Monreal (Region & Office)
DPWH District Office Katahira & Engineers International
Mr. Boarlerges Relativo (Pid. Engr. Sorosopa) Mr. Masso Aizando (Geolechnical Surveyor)
Mr Kenji Sugawara (Topographic Surveyor)





Mr. Masao Aizawa Geotechnical Surveyor (KEI)

Mr. Kicht Sugaryara Mr. Kicht Sugaryara (KEI)

THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE MI, GROUP 7)

BRIDGE NO.

BANQUEROHAN BRIDGE

SHEET HO.

BANQUEROHAN SORSOGON

W. Edwin C. Matangulhan

Engr IV, Drush Countral Office (B.O.D.)

Mr. Edwin Fortes

Engr. III, Drush Central Coffice (P.S.)

Mt. Hoomenas Kelativo

Drush Pistict Engr. 1 Sorsegon District, Reg. V

Mr. desus E. Monreal

DRIVH Region V Office

Mr. Conrado D. Mero

DPWH Region X Director

#### GENERAL NOTES

I. LOCATION OF BRIDGE SHOULD BE DETERMINED BY THE DEPARTMENT OF
PUBLIC WORKS AND MICHWAYS LOWH)

2. STRUCTURAL DIMERSONS OF SUPPRETRUCTURES SHOULD NOT BE AMENDED.

3. TYPES AND DREMBING OF, SURETRUCTURES SHOULD NOT BE AMENDED.

4. VERTICAL CLEARANCE SETWENT THE M.F.L. AND THE BOTTOM OF THE GINDERS
OF THE SUPPRETRUCTURES SHALL SE HOT LESS THAN 1.0 METER.

(CARTYING NO BIG DEBRIS).

5. DEBING SPECIFICATION
ASSHITD STANDAND SPECIFICATION FOR HIGHWAY BRIDGE (1416 EDITION 1988).

6. DEBING LOAD

DEAD LOAD

OF ALL MATERIALS, 17.65 KM/m3

LIVE LOAD ROADWAY LIVE LOAD HS 20-44 (MS-18)

TEMPERATURE CHANCE
RISE + 10°, FALL - 10°

EARTHOUANE LOAD

OF SUDDERS'

OTHER LOADS IN ACCORDANCE WITH 1988 AASHTO SPECIFICATION.

7. MATERIALS

STELL ORD SUPERSTRUCTURES

STELL OR SUPERSTRUCTURES

STELL SHALL SE SPECIFIED BY JIS (JAPANESE

CHOCKETE FOR BUCK SLAS

CONCRETE FOR SUPERSTRUCTURES

CONCRETE FOR SUPSTRUCTURES

OTHERS: OTHER MATERIALS SHALL CONFORMED TO ASYM.

VICINITY - MAP



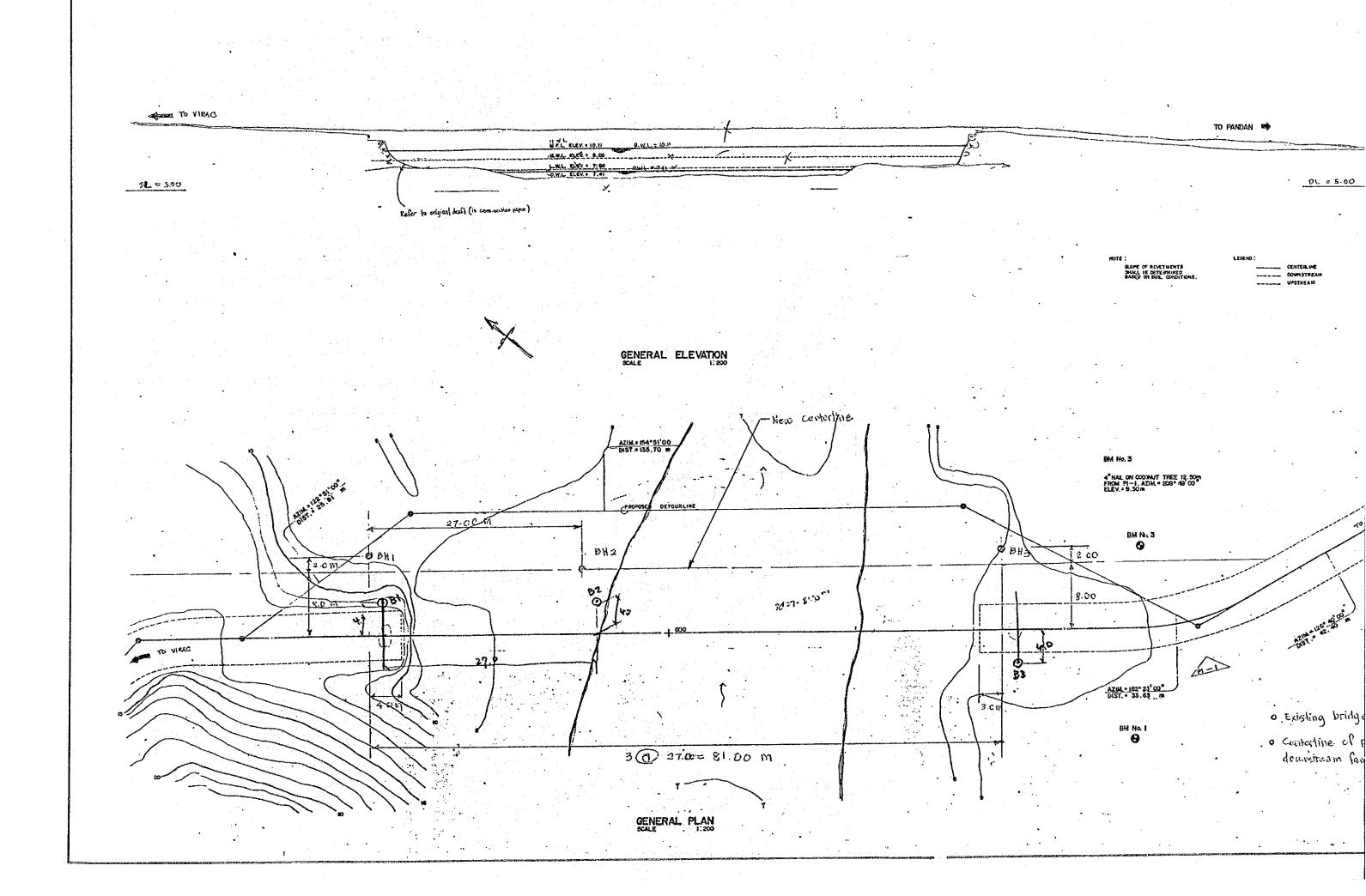
#### KATAHIRA & ENGINEERS INTERNATIONAL

TOKYO, JAPAN



Taurukama Bidg., 4-2-8 Ginza Chuo-ku, Tokyo, Japan Cable Address: ENGKATAHIJA TOKYO Italaphone: 03-593-4053 Talax: 2523938 KATAEG J Facsimile: 03-583-4055

	Date: duly 9, 1992
Gentlemen,	
Constructing Bridges Along Rural R Engineers International and re Regional and District Offices) her	pan's Grant Aid, the Project for Roads (Phase IV, Group 2), Katahira & presentatives from DPWH (Central, seby agree on the following items for Bridge;
	ill be located at the downstream side
2. The Right-of-Way Acquisit (to be undertaken by the	tion and removal of all obstructions
3. Location of proposed deto	ur at existing bridge.
4. Highest Water Level,	10.11 m.
5. Location of Bore Holes	three bore holes as indicated in the plan
Attached herewith is the plan	showing the above agreed items.
Names and signatures of Repres	sentatives are shown below.
Mr. Edwin Canal Office	DPWR Regional Office
Mr. Eduin Portes (Augr. 11), P.S.)	Mr. Floberto M. Mitra (Engr. III., R. P.Mo Reg. V.)  Ms. Schedard J. L. Hej-Baco (Chief Planning & Design Dio.)
	Mr. Domirgo R. Villasenor (And. Director for Services, Reg.V)
DPWH District Office	Katahira & Engineers International
Mr. Mahiang Saret District Eng. Catandranes Engin Oct.  Mr. Monico Genogaling (Engr. 11) Planning st  Design Catandranes	Mr. Masto Aizawa (Geolechnical Surveyor)  Mr. Reny Sugayara (Topographic Surveyor)
Engly Destrict)	



TO PANDAN -DL = 5.00 DPWH Asd. Reg'l Director for Services Reg. V Office BM N. 3 9 ATHL . 182\* 25' 00" o Existing bridge will be used as deteut. BM No. I . o Contestine of purposed bridge is located soom 8

downstream fam existing contertine of bridge.

ALL CEMENSIONS ARE EXPRESS IN MELLIMETERS UNLESS OTHERWISE SHOWN IN THE PLANS.
ALL ELEVATIONS ARE IN METERS.

THE BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE IV, GROUP TL.) HITOMA BRIDGE CARAMORAN ICATANDUANES ~<del>00</del>~03~-01 Mr. Edwin C. Matahguilian Mr. Masao Alzaua Engr. IV , DPWH Central Office (B.O.D) Geofechnical Surveyor (KEI) Topographic Surveyor (KEI) APNUH Central Office (P.S.) Engr. N Mr. Month OPWA Catanduanes Engly Dist. Mr. Manano S. Salet 4. Uy - BOCO District Engr. DAWH catardwaves tung. District Chief of Planning & Design Pivision (Reg. v)

GENERAL NOTES

I, LOCATION OF BRIDGE SHOULD BE DETERMINED BY THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH).

2. STRUCTURAL DIMENSIONS OF SUPERSTRUCTURES SCOULD NOT BE AMEDICED.

2 STRUCTURE DIMENSIONS OF SUBSTRUCTURES SHALL BE JUST FIED ACCORDING TO THE DETAILED DESIGN OF SUBSTRUCTURES PREPARED BY DPWIL

4. VERTEAL CLEARANCE GETWEEN THE M.E.L. AND THE BOTTOM OF THE GROERS OF THE SUPERSTRUCTURE SHALL BE NOT LESS THAN 1.0 HETER. (CARRYUNG NO BK) DEBRG).

5. DESIGN SPECIFICATION
ASSITO STANDARD SPECIFICATION FOR HIGHWAY SRIDGE ( MITH EDITION 1939)

6. DESIGN LOAD

Mr. Domingo R. Villesener

.23.54 KN/m<sup>2</sup> £7.66 KN/m<sup>3</sup> FILL MATERIALS

LIVE LOAD ROADSKY LIVE LOAD HS 20-44 (MS IS) SIDEWALK LIVE LOAD 2.873 KN/m2

EARTHQUAKE LOND FALL-10°

IN ACCORDANCE WITH "GUIDELINE FOR SEISMIC DESIGN OF BRIDGES"

OTHER LOADS: N ACCORDANCE WITH 1989 AASHTO SPECIFICATION

7. MATERIALS STEEL FOR SUPERSTRUCTURE

STEEL SWALL BE SPECFED BY JIS (JAPANESE PRODUSTRIAL STANDARD)

CONCRETE FOR DECK SLAB 1: 20.7 MPG
CONCRETE FOR DECK SLAB 1: 20.7 MPG
CONCRETE FOR SUBSTRUCTURE 1: 20.7 MPG
OTHER MATERIALS SHALL CONFORMED TO ASSIM OTHERS

HITOMA EPIDGE VICINITY MAP

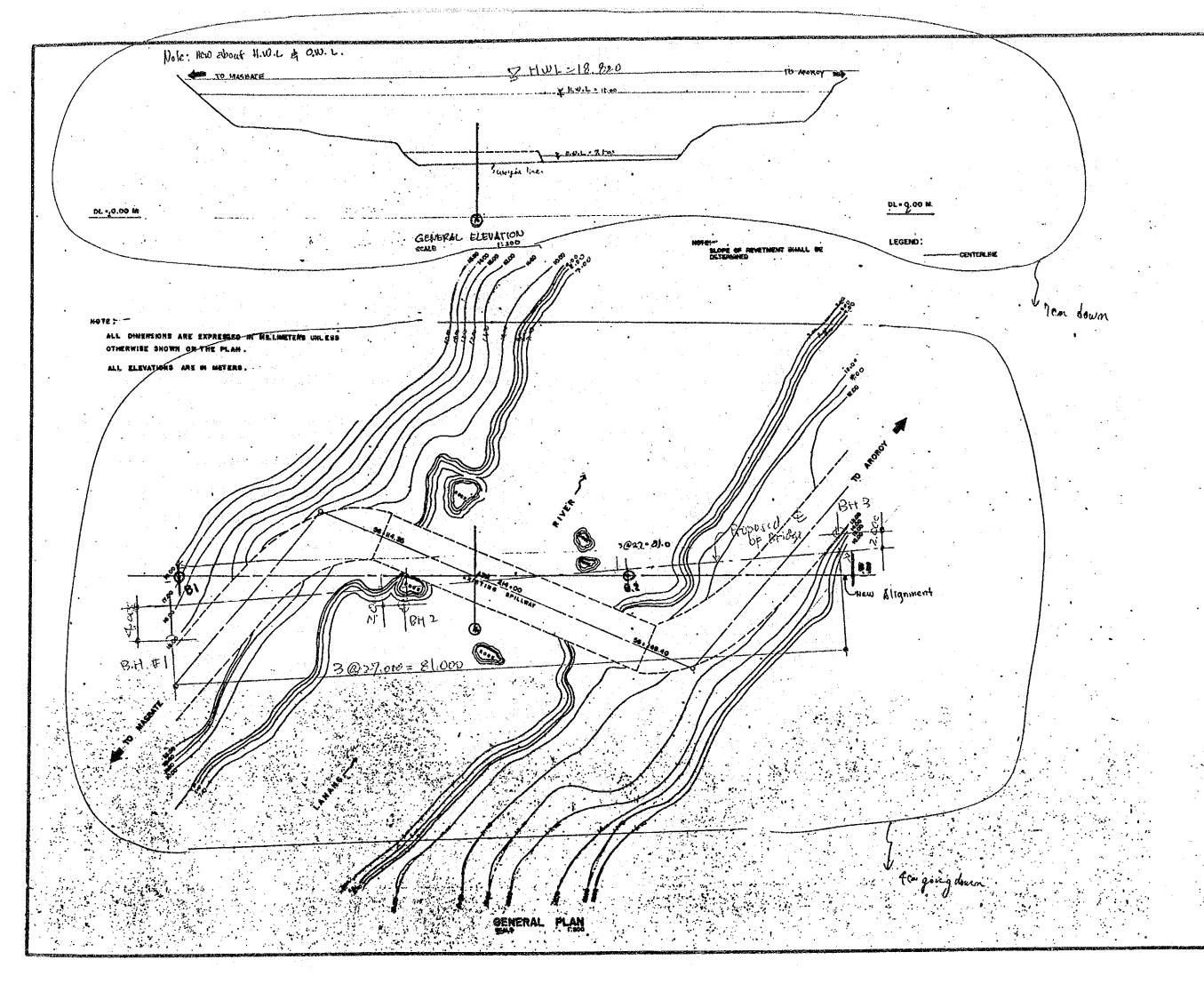
Engr III DPWH, R.P.M.O. Reg. V

#### KATAHIRA & ENGINEERS INTERNATIONAL

TOKYO,JAPAN -

(3)

Taurokama Bidg., 4-2-6 Ginza Chuo-ku, Tokyo, Japan Cable Address: ENGKATAHIRA TOKYO (Telephona: 03-563-4053 Telex: 2523836 KATAEG J Facelmile: 03-563-4055



o Existing spillway will be us

o Strengthening of temporary bridge site will be the required the D.P.W.H.

o Skew angle is approximately.

N9.00001738

ALL DIMENSIONS ARE EXPRESSED IN MIT ASSEYMENMISE SHOWN ON THE PLAN. ALL ELEVATIONS ARE IN METERS.

LEGEND: Tem down new Allgoment

Mr. Masao Mizawa Geofechnical Surveyor (KEI)

Topographic Surveyor (KEI

- · Existing spillway will be used as defour ..
- o Strengthening of temporary bridges leading to bridge site will be the responsibility of the D.P. W.H.
- o Skew angle is approximately 450

SOADWAY LIVE LOAD HS 20-44 ( ME-SOCHALK LIVE LOAD 2.873 KH/m<sup>8</sup>

VICINITY MAP

THE BASIC DESIGN STUDY ON THE PROJECT NO FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE MI, GROUP D) LANANG BRIDGE AROROY, MASBATE

Engl. IV, DPWH Central Office (B.O.D.)

BRIDGE NO.

05-06-04

Engrin Down central Office (P.S.)

Engri III , DAWH Masbake Engg. Dist. (PDS)

Engt. 11, DAWH Massbate Engg. Dist (PDS)

Mb. Spedad V. Uy-Boco Chief, Planning & Resign Division, DPWH, Reg. V Office

Mr. Pomibão R. Villasenor DPWH, Asst. Regil. Director for Services , Reg. V Office

#### GENERAL NOTES

#### KATAHIRA & ENGINEERS INTERNATIONAL

MARAU, JAPAN



Taurukeme Eldg., 4-2-6 Ginze Chuo-ku, Tokyo, Japan Ceble Addrese: ENGKATAHIFIA TOKYO (Telephone: 03-563-4053 Telex: 2523636 KATAEG J Fecsimile: 03-563-4055

Date: daly 10, 1992
Gentlemen,
In connection with the Japan's Grant Aid, the Project for Constructing Bridges Along Rural Roads (Phase IV, Group 2), Katahira & Engineers International and representatives from DPWH (Central, Regional and District Offices) hereby agree on the following items for the construction of Potot Bridge;  1. The proposed centerline will be located at the upsteam side of the bridge.
<ol> <li>The Right-of-Way Acquisition and removal of all obstructions (to be undertaken by the DPWH)</li> </ol>
3. Location of proposed detour at existing bridge.
4. Highest Water Level, 18.68 m.
5. Location of Bore Holes Three boring holes as indicated in the plan.
Attached herewith is the plan showing the above agreed items.
Names and signatures of Representatives are shown below.
DPWH Regional Office  Mr. Adrian: Voing Congr. iv . 6.0.0.)  Mr. Edwin Forker (Engr. yi., R.S.)  Mr. Domingo K. Villaseñer (Ast. Regl. Director for Senices, Reg. v)
Mr. Salcedo M. Gasher Char. II., Mashale Engl. Dist.)  Mr. Masha Aizawa (Geotechnical Surveyor)  Mr. Wicevie A. Mashale Ing. Dist.)  Mr. Kenji Sugawata Topographic Surveyor)  P.O. S

THE BASIC FOR CONSTRUCTING BRIDG

Adriano 1

ENST. IV DPW

Evgr 111, led

Engr. III Drugt

Engr. 11 , DAWH

chief of Pla

Mr. Domingo f PPWH LOST. Re

BRIDGE HO.

08-06-05

SORBAJIM OT TO BALUD

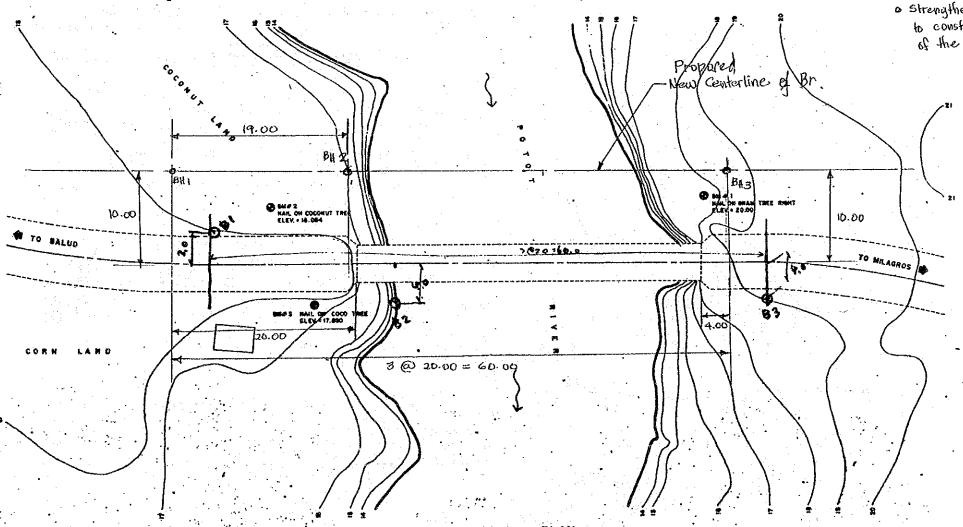
GENERAL ELEVATION

Mr. Masao Aizawa Geolechnical Surveyor (KEI)

Mr. Kenji Sugawara Topographic Surveyor (KEI)

o Existing bridge will be used as the defout.

o Strengthening of temporary bridges leading to construction site will be the responsibility of the D.P.W.H.



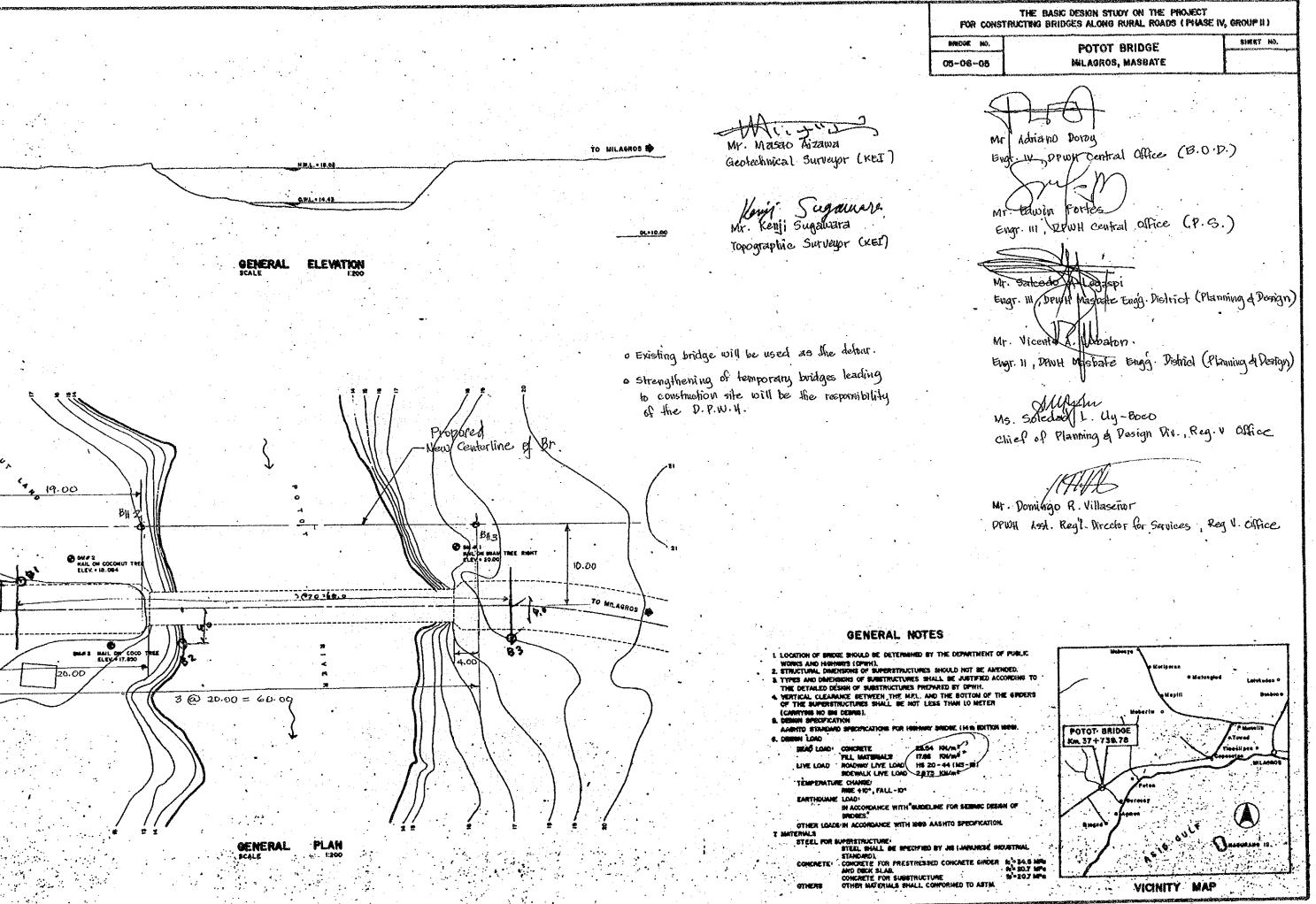
#### GENERAL NOTES

IL TYPES AND DIMENSIONS OF BURSTRUCTURES SHALL BE JUSTIFIED ACCORDING TO THE DETAILED DESIGN OF BURSTRUCTURES PREPARED BY DPWH.

CONCRETE SEAS FOLIAS THE MATERIALS TORE FOLIAS FOLIAS SOCIETALS LIVE LOSO SETTS KNAMP SE CHANGE!

TEMPERATURE CHARGE!

IN ACCOMDANCE WITH GLODELINE FOR SERVIC DESIGN O



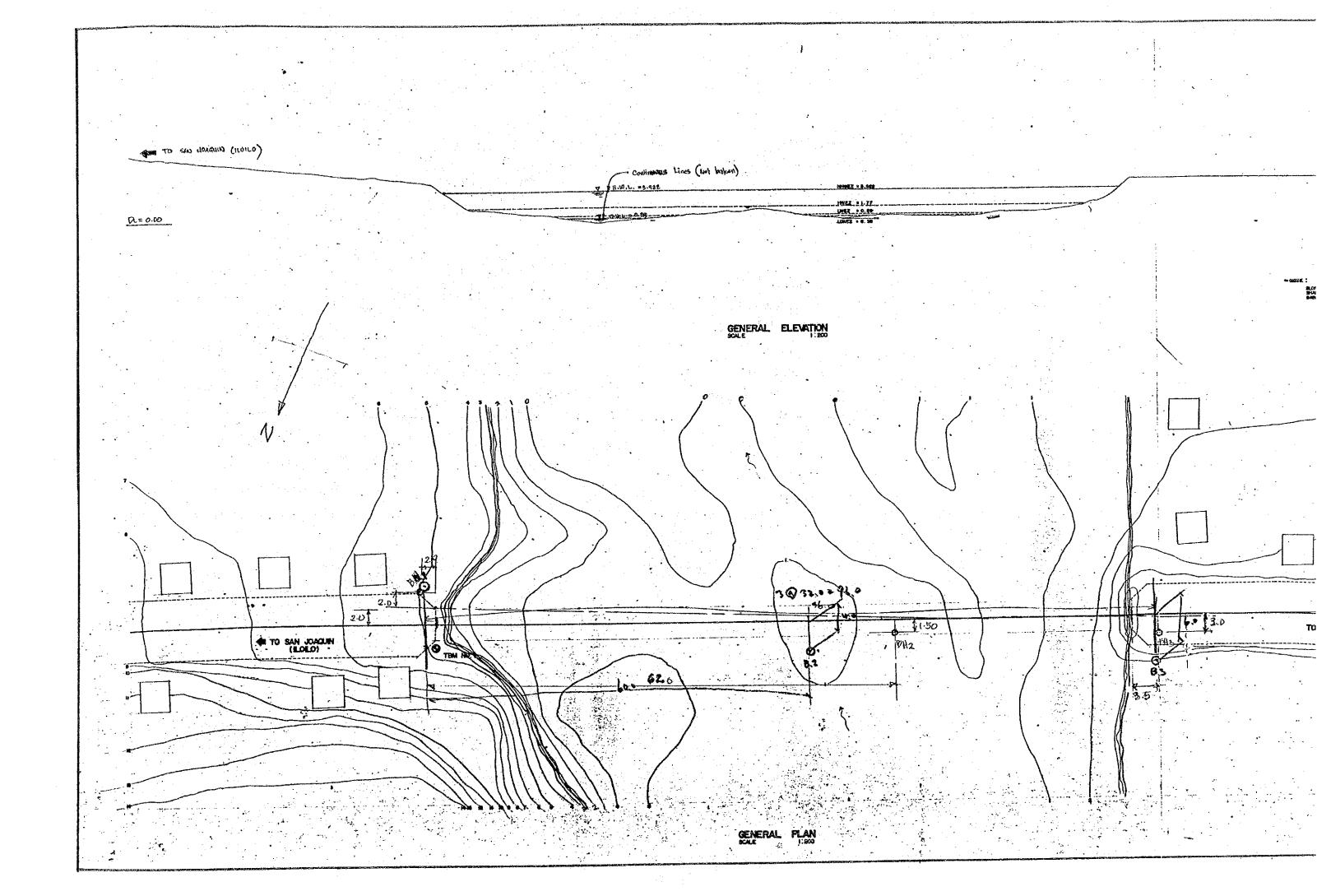
#### KATAHIRA & ENGINEERS INTERNATIONAL

TOKYO,JAPAN -



Taurukama Bidg., 4-9-6 Qinza Chuo-ku, Tokyo, Japan Cable Address: ENGKATAHIRA TOKYC Jalaphona: 03-583-4053 Telex: 2523838 KATAEJ J Facalmille: 03-583-4055

		Dater	duly 4, 190	~
Gent	lemen,			
Eng. Regi		ong Rural Roads (al and representations) hereby as $40.64$ Br $6-06-04$	Phase IV, Group tatives from I ree on the foll idge;	2), Katahira & PWH (Central,
	of the bridge.	encertine will be	Tocaced ac cha	as shown in the par
	(to be underta)	ay Acquisition and the control of the control of the DPWH)	:	
	3. Location of pro	pposed detour At-	potreem of exis	ting bridge
	4. Highest Water I	level, 3.922	m.	
	5. Location of Box	e Holes (3) Thre	e holes as indica	ed in the plan
	Names and signature	s of Representat	lves are shown b	slow.
				•
<b>ДР</b> МН	c. Edwin Majanauhan	1. The	Regional office	al Viredor Region VI)
<u>M</u>	Why	MATER BOD) MY E	nesto A. Sivela (Rajio	<u>al Pirector, Region V</u> ) Planning of Design, Region
<u>M</u>	r. Edwin Makanguinan	MATER BOD) MY E	nesto A. Sivela (Rajio	
<u>M</u>	r. Edwin Makanguinan	MATER BOD) MY E	nesto A. Sivela (Rajio	al Pirector, Region V) Planning of Design, Region
Mr	C. Edwin Majanguihan  Edwin Forces Engry  District Office	(Ps) Mr. Co	nesto A. Sivela (Region Caligan (Engr. III	Planning & Region Region  International
Mr Ri	C. Edwin Majanguihan  Edwin Forces Engry  District Office	(BS) Mr. Co	nesto A. Sivela (Rajo A. Sivela (Rajo All Caligan (Engr. III Masao Ajzawa (Garana)	Planning & Region Region  International



FOR CONSTRUCTING BRIDGES BRIDGE NO. L.A 08--06--04 SAN של שבוימול איומות מד Mr. Masao Aizawa Geolechnical Surveyor (KEI) Central Office ( Engr IR DPWH Mr. Kenji Sugawara Menyi Sugawawa Fepographia Surveyor (FEI) Engr. 111 DAWH Central Coffice (Plans Mr. Elmer s. siTueo Engr. III DOUGH Construction Section District Engineer, APWH Iloilo . Mr. Cecil Calidan Engr III, DPWH Regional Office M. Ernesto A. Silvela Regional Difector, Region Y GENERAL PLAN 1. LOCATION OF BRIDGE SHOULD BE DETERMINED BY THE DEPARTMENT OF PUBLIC WORKS AND INGHWAYS (DPWH). PLANCE MUTHS AND INSTINANTS (DYWH).

2. STRUCTURAL DIMENSIONS OF SUPERSTRUCTURES SHOULD NOT BE AMERICED.

3. THES AND DIMENSIONS OF SUBSTRUCTURES SHALL BE JUSTIFIED ACCORDING TO THE DETAILED DESIGN OF SUBSTRUCTURES PREPARED BY DYWILL AND THE BOTTOM OF THE OWNERS OF THE SUPERSTRUCTURE SHALL BE NOT LESS THAN 10 METER (CARRYTHIS NO BIS DEBRES). TO ANINI- Y (ANTIQUE) 1.50 DH2 5. DESIGN SPECIFICATION /
AASHTO STANDARD SPECIFICATION FOR HIGHNEY BRIDGE 14th EDITION 19 25 .54 KHV m<sup>5</sup> 17.55 KHV m<sup>5</sup> DEAD LOAD CONCRETE FELL MATERIALS LIVE LOAD ROMONNY LIVE LOAD HS 27-44 (HS-18) TEMPERATURE CHANGE
RESE +10 FALL-10\*
EARTHQUIKE LOAD OTHER LOADS : IN ACCORDANCE WITH DES AASHED SPECFECTION 7. MATERIALS
STEEL FOR SUPERSTRUCTURE
STEEL SHALL BE SPECIFED BY JIS (JAFANESE
BROUSTHIAL STANDARD)
MAD PRESTRESSED CONCRETE GROCES
MAD AND PRESTRESSED CONCRETE GROCES COMMETE FOR PRESTRESSED CONCRETE GROER Nº 54.5 MFG CONCRETE FOR DECK SLAB 'Nº 80.7 MFB CONCRETE FOR SUBSTRUCTURE 'Nº 20.7 MFB GTHER MATERIALS SHALL CONCREDE TO ASTM

THE BASIC C

של ששומים אינונות פון pt = 0.00 TO ANINI-Y (ANTIQUE)

FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE IV, GROUP II) SHEET NO. BANDOS NO. LAWGAN BRIDGE SAN JOAQUIN, ROILO Q8-06-04

Mr. Masao Aizawa Geofechnical Surveyor (KEI)

Mr. Kenji Sugawara Menyi Sugawaw Japographic, Surveyor (FEI)

Mafanquinan Engr. 11 PPWH Central Office (BOD) Engr. 111 proble Central Coffice (Planning Service)

Mr. Elmer S. Silveo Engr. In DoyuH Construction Section, Iloito in Engg. District

THE BASIC DESIGN STUDY ON THE PROJECT

District Engineer, DPWH Iloilo 151 Engg. District

Engr III, DPWH Regional Ossice, Reg. VI

. Exnesto A. Silvela Regional Director, Region YI

#### GENERAL PLAN

- 1. LOCATION OF BRODE SHOULD BE DETERMINED BY THE DEPARTMENT OF FUELC WORKS AND HIGHWAYS (DPWH).

  2. STRUCTURAL CHIEDHOUS OF SUPERSTRUCTURES SHOULD NOT BE AMENDED.

  3. TYPES AND DIMENSIONS OF SUBSTRUCTURES SHALL BE JUSTFED ACCORDING TO THE DETAILED DESIGN OF SUBSTRUCTURES PREFINED BY DPWH.

  4. VERTICAL CLEANINGS BETWEEN THE MFL. AND THE BOTTOM OF THE SPECIAL SHOULD SHALL BE NOT LESS THAN LO METER (CARRYING NO BIS DEBMIS).

  5. DEBON SPECIFICATION.
- 5. DESIGN SPECIFICATION AASHTO STANDARD SPECE

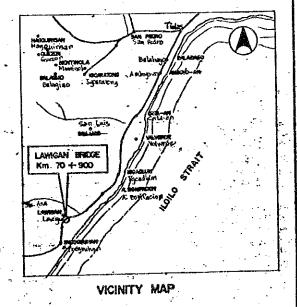
23.54 KN/ m<sup>5</sup> DEAD LOAD CONCRETE
FEL MATERIALS LINE LOND ROWSHIP LINE LOND HS 22-44 (MS-18)

TEMPERATURE CHANGE RISE + 10° FALL - 10°

IN ACCORDANCE WITH "GLOCELINE FOR SEISING DESIGN OF BRIDGES"
OTHER LOADS: IN ACCORDANCE WITH 1999 AASHTD SPECFECTION

7 MATERIALS
STEEL, FOR SUPERSTRUCTURE
STEEL SHALL SE SPECIFED BY JIS (JAMMESE
SHOUSTMAL STANDARD)
THE PRESTRESSED CONCRETE GROCES
THE PRESTRESSED CONCRETE GROCES

COMPRETE FOR PRESTRESSED CONCRETE GRODER % 34.5 MPG CONCRETE FOR DECK SLAB % 9.0.7 MPG CONCRETE FOR SUBSTRUCTURE % 9.0.7 MPG OTHER MATERIALS SHALL CONFORMED TO ASTER



#### KATAHIRA & ENGINEERS INTERNATIONAL

TOKYO, JAPAN



Teurukeme Bidg., 4-R-6 Ginxe Chuo-ku, Tokyo, Jepan Cebla Address: ENGKATAHRA TOKYO Telephone: 03-593-4053 Telex: 2523936 KATAEG J Fecsimile: 03-583-4055

Date: duly 2, 1992
Gentlemen,
In connection with the Japan's Grant Aid, the Project for Constructing Bridges Along Rural Roads (Phase IV, Group 2), Katahira & Engineers International and representatives from DPWH (Central, Regional and District Offices) hereby agree on the following items for the construction of APALAN Bridge;  1. The proposed centerline will be located at the upstream (shown in the plan) of the bridge.
<ol> <li>The Right-of-Way Acquisition and removal of all obstructions (to be undertaken by the DPWH)</li> </ol>
3. Location of proposed detour Not Applicable (Existing bridge will be used)
4. Highest Water Level, m.
5. Location of Bore Holes Two Bore Holes as shown in the plan.
Attached herewith is the plan showing the above agreed items.
Names and signatures of Representatives are shown below.
Mr. Adriano Voren (tygyv, Boo)  Mr. Edwin Fortes (tygyv, Bo)  Mr. Edwin Fortes (tygyv, Ps)  Mr. Edwin Fortes (tygyv, Ps)  Mr. Edwin Fortes (tygyv, Ps)  Mr. Gloris Vindin (Engr. IV, Reg. VII Planning & Avign)
Mr. Mario B. Bayalo (Dist. Engr., Celu 1st)  Mr. Mario B. Bayalo (Dist. Engr., Celu 1st)  Mr. Mario Airawa (Geolechnical Surveyor)  Mrs. Monica S. Rabaya (Engr. III, Celu 1st)  Mr. Keriji Sugawara (Tongraphic Surveyor)  Planning & Design

THE BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE IV, GROUP II) BRIDGE NO. APALAN BRIDGE 07-05-01 TUBURAN, CEBU Dewly District Englineer, Cebu 1st Mr. Masau Aizawa MARUSUT OT Geolechnical Surveyor (KEI) TO TABUELAN S Ms. Movical Rabaya Monya Sugawana Mr. Kenji Sugawara Engr. III. DPWH Planning & Design, Cebu 1st Topographic Surveyor (KEI) GENERAL ELEVATION Mr. Gloria Brodin Engr. 10 1/22 Planning & Bongn, Reg. VII affice Adriano Doroy Engriv Delinity Central Office (BOD) Bashir D. Rasuman Engry, DPWH Central Office (Planning Service) Regional Director, DPNH Region VII Note: After topographic survey, clearance between the existing bridge and proposed bridge should again be investigated. GENERAL NOTES L LOCATION OF BROGE SHOULD BE DETERMINED BY THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DRWH)

2. STRUCTURAL DIMENSIONS OF SUPERSTRUCTURES SHOULD NOT BE AMENDED.

3. TYPES AND DIMENSIONS OF SUBSTRUCTURES SHALL BE JUSTIFIED ACCORDING TO THE DETAILED DESIGN OF SUBSTRUCTURES PREPARED BY DRWH.

4. VERTICAL CLEARANCE BETWEEN THE MIFL. AND THE BOTTOM OF THE GIRDERS OF THE SUPERSTRUCTURES SHALL BE NOT LESS THAN 10 METERS (CARRYING NO BIG DEDRIS).

5. DESIGN SPECIFICATION. BAGASAUE PI APALAN BRIDGE Km. 97+803 6. DESIGN LOAD FILE MATERIALS 17:66 101/m² ROADWAY LIVE LOAD HS 20 444 (MS-18) SIDEWALK LIVE LOAD 2.873 KH/m² TEMPERATURE CHANGE RISE +10\*, FALL -10\* IN ACCORDANCE WITH GUIDELINE FOR SEISING DESIGN OF BRIDGES.

OTHER LOADS IN ACCORDANCE WITH 1999 AASHTO SPECIFICATION.

Y MATERIALS

STEEL FOR SUPERSTRUCTURE:
STEEL SHALL BE SPECIFIED BY US LUAPANESE INDUSTRIAL
STANDARDL

CONCRETE: CONCRETE FOR PRESTRESSED CONCRETE GROER 16: 34.5 M
AND LECK SLAB.

OTHERS: OTHER MATERIALS SHALL CONFORMED TO ASTM.

OTHERS: OTHER MATERIALS SHALL CONFORMED TO ASTM. PLAN GENERAL VICINITY MAP 5 - 12

# Kei

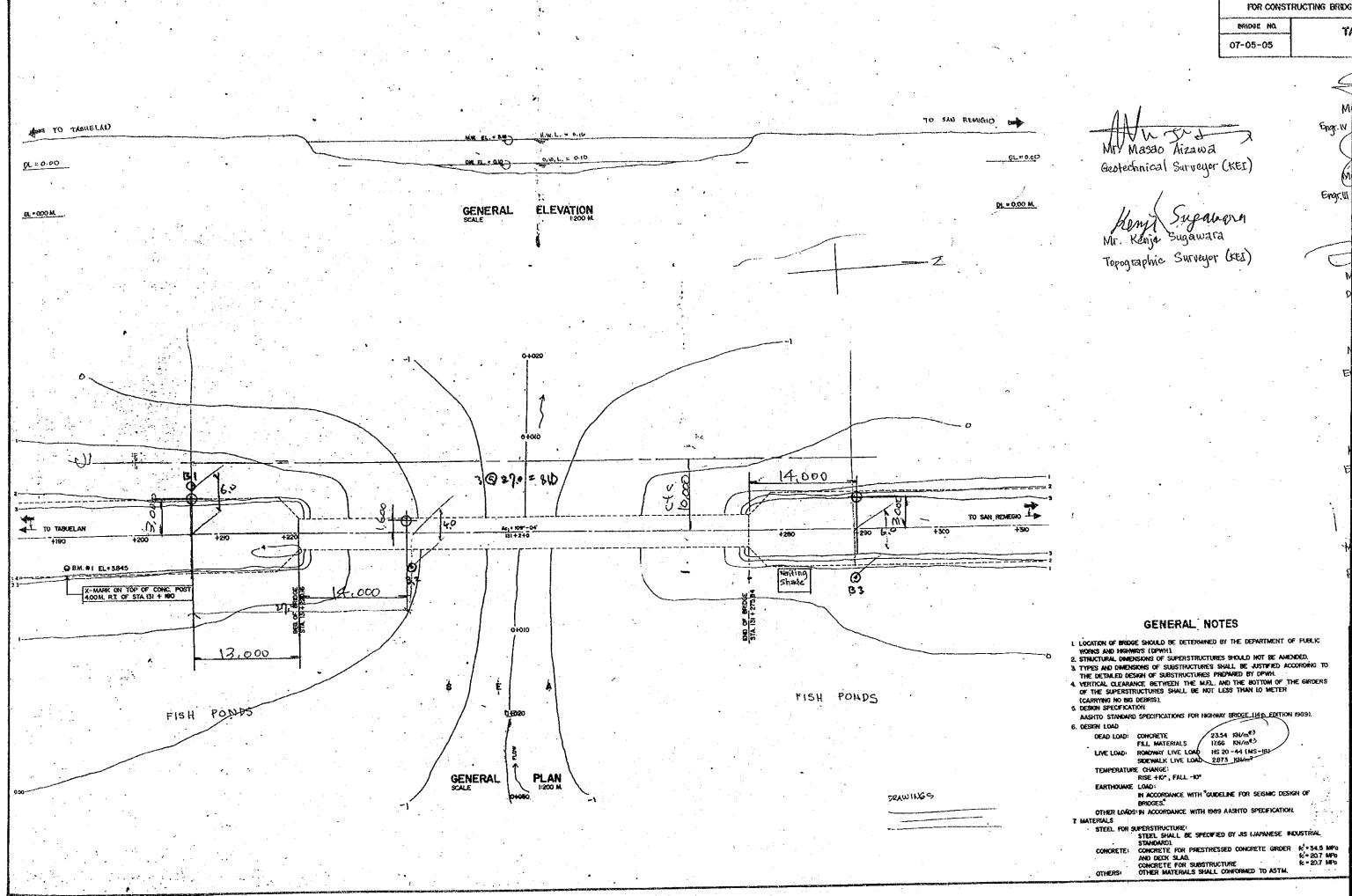
#### KATAHIRA & ENGINEERS INTERNATIONAL

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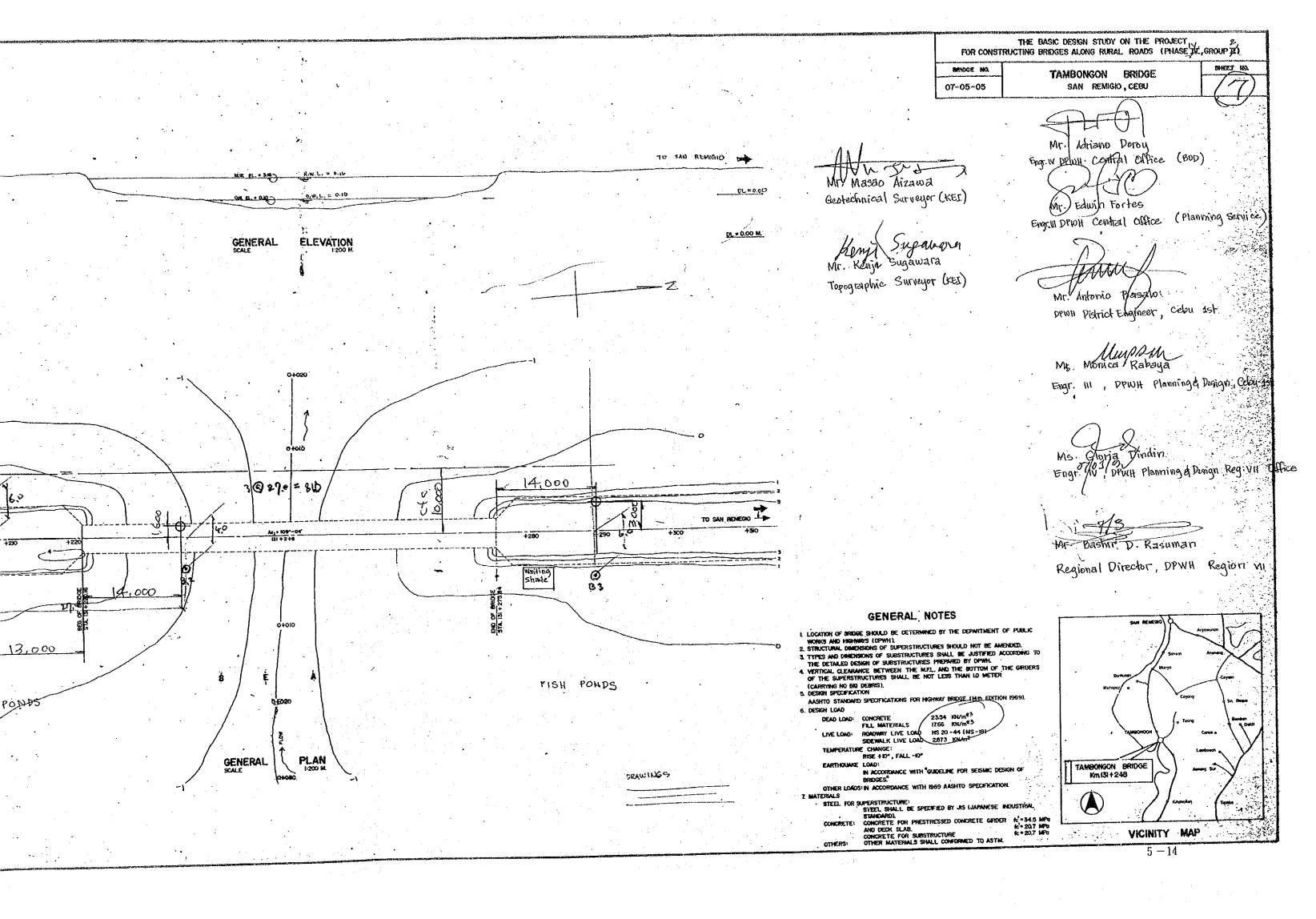
Taurukama Bldg., 4-2-9 Glnza Chuo-ku, Tokyo, Japan Cable Address: ENGKATAHINA TOKYO Леlephone: 03-693-4053 Telex: 2523838 KATAEG J Fecalmile: 03-593-4055

		1 808111107 005 000
		Date: July 2, 1992
Gentlemer	1,	
Construct Engineer Regional the const	ting Bridges Along Rural Res International and repairs and District Offices) her truction of TAMBONGON	
2.	The Right-of-Way Acquisit (to be undertaken by the	cion and removal of all obstructions
з.	Location of proposed deto	ur at the existing bridge.
4. 5.	Highest Water Level,  Location of Bore Holes 381	3.16 m.  om Bellere abol 1 un (Alfandul) 1 (4.0 m. flom Abul 2 om i dion cit 1 (5.0 m. flom Abul 2 3.0 m Lonn Cl. 3.0 m Loon Cl. (Tabuelapside) BHZ (Tabuelan side, BH3 (San Remigio side).
Atta	ached herewith is the plan	showing the above agreed items.
Name	es and signatures of Repre	sentatives are shown below.
	tions Potos (End IV, BOD)  with torses (Bug in 18)	Mrs. Storia Prodly (Engr. IV, Reg. VII)  O'101102
Mr. Mox Mr. Mox	Supplies of the Color of Color of Color of the Color of the Color of Color	dens Sugaweth



THE BASIC

Engr. III



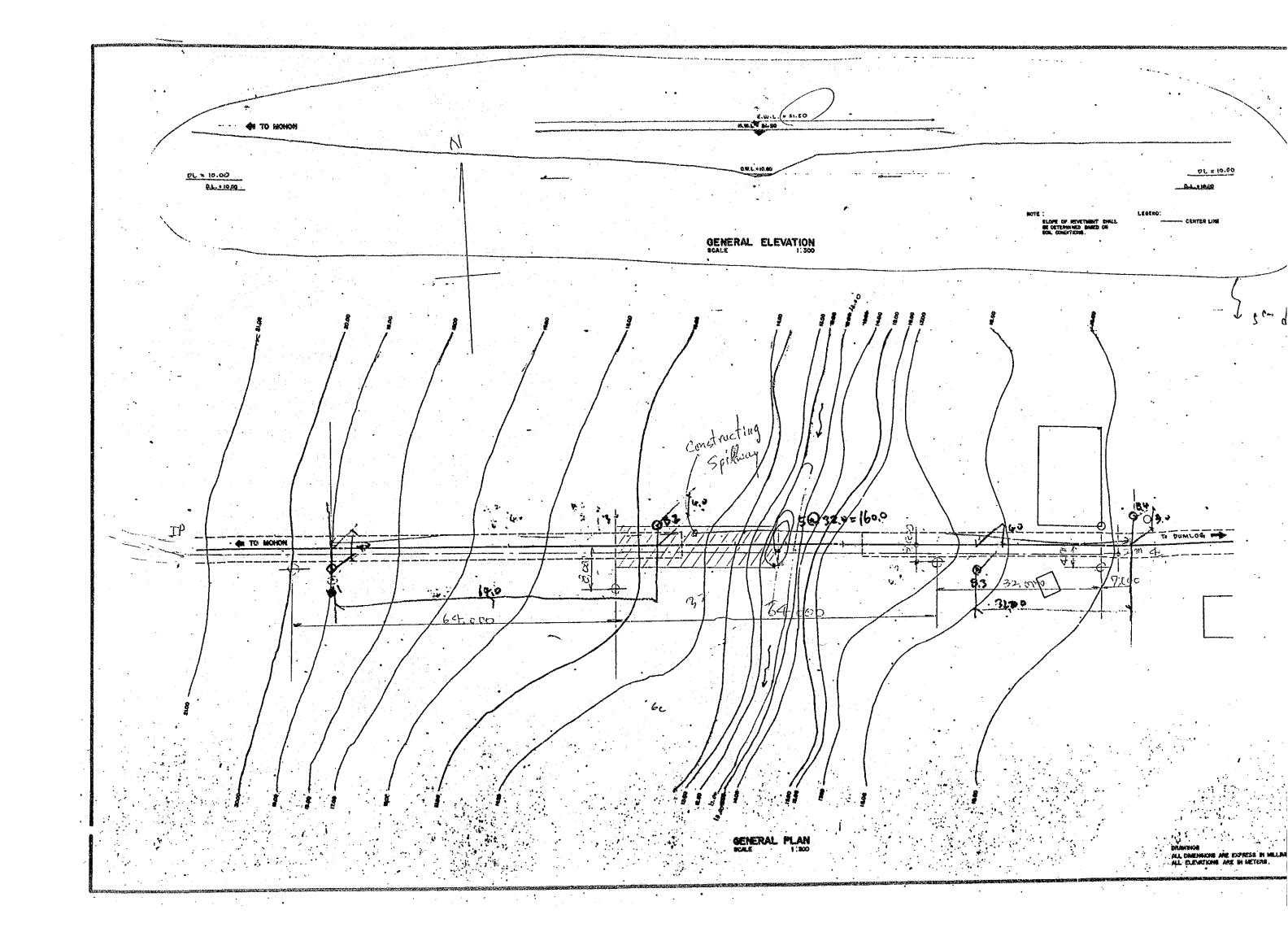
### KATAHIRA & ENGINEERS INTERNATIONAL

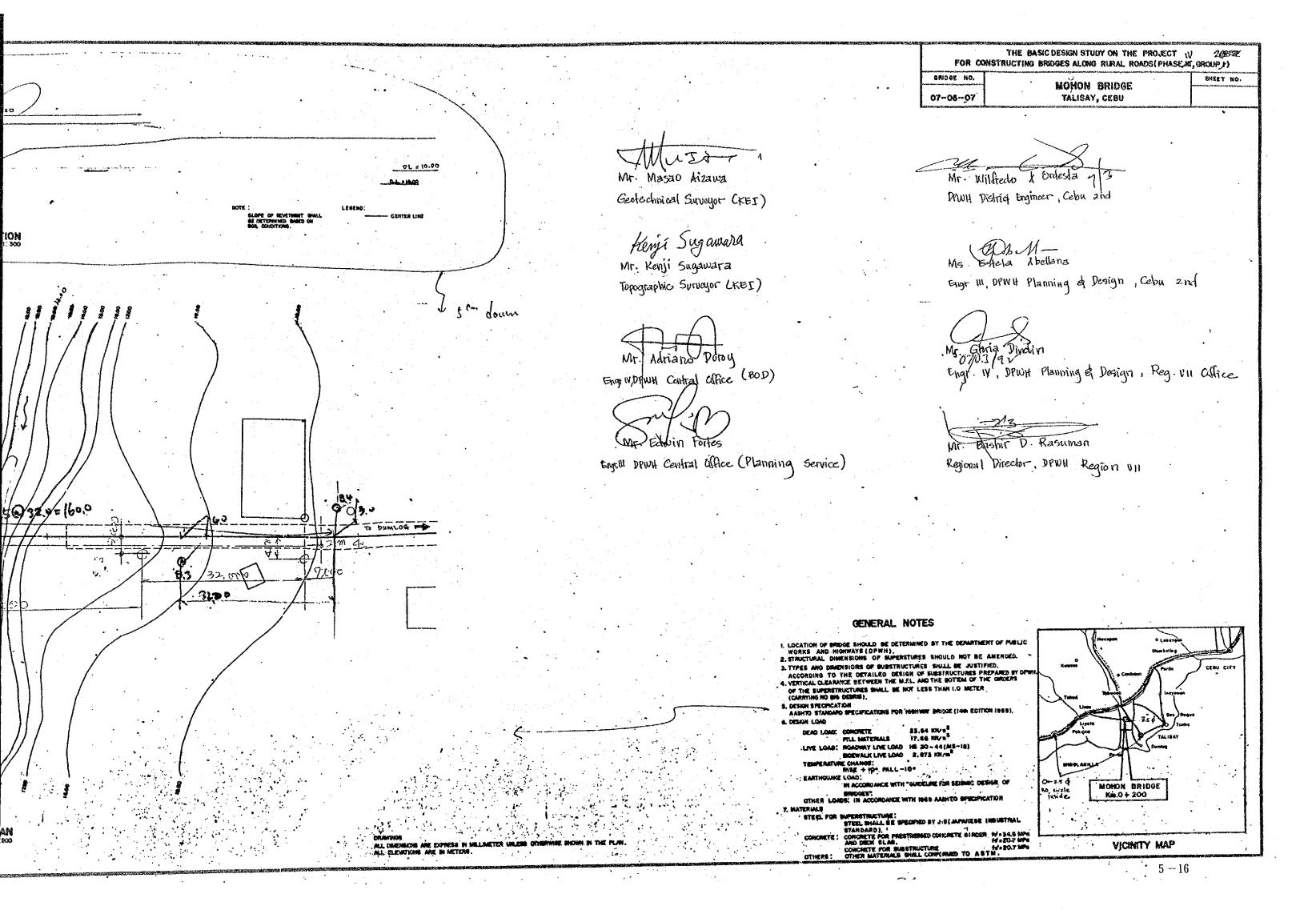
MARAN



Teurukeme Bidg., 4-2-8 Ginze Chuo-ku, Tokyo, Jepan Cebla Addrese; ENGKATAHRA TOKYO ,Telaphone; 03-583-4053 Telax; 2523838 KATAES J

Fedelmile: 03-563-4055
Date: duly 3, 1992
Gentlemen,
In connection with the Japan's Grant Aid, the Project for Constructing Bridges Along Rural Roads (Phase IV, Group 2), Katahira & Engineers International and representatives from DPWH (Central, Regional and District Offices) hereby agree on the following items for the construction of MOTON Bridge;
1. The proposed centerline will be located at the 2.0 downstream of existing of the bridge.
<ol> <li>The Right-of-Way Acquisition and removal of all obstructions (to be undertaken by the DPWH)</li> </ol>
3. Location of proposed detour at downstream.
4. Highest Water Level, 21.20 m.
5. Location of Bore Holes as shown in the plans (4 holes)
Attached herewith is the plan showing the above agreed items.
Names and signatures of Representatives are shown below.
DPWH Central Office  DPWH Regional Office  Mr. Adriano Doroy (Enay) IV 800  Mr. Edwin Fortes (Ungr. (Ungr. (Ungr. V) Reg. VII. Planning & Design  Offort (Ungr. V) Reg. VII. Planning & Design
Mr. Wilfredo A. Ordesta (Dist. Engr., Cebu 2nd)  Mr. Wilfredo A. Ordesta (Dist. Engr., Cebu 2nd)  Mr. Wasgo Aizawa (Gcotechnical Surveyor)  Mr. Wasgo Aizawa (Gcotechnical Surveyor)  Mr. Kenji Sugawara (Topographic Surveyor)





#### KATAHIRA & ENGINEERS INTERNATIONAL

TORYO, JAPAN

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1992

9

Taurukama 6ldg., 4-8-6 Ginza Chuo-ku, Tokyo, Japan Cable Address: ENGKATAHRA TOKYO Telephone: 03-563-4059 Telex: 2523636 KATAEG J Fecsimile: 03-569-4055

Gentlemen,	
In connection with the Japan's Grant Aid,	the Project for
Constructing Bridges Along Rural Roads (Phase IV, Gro	· ·
Engineers International and representatives from	
Regional and District Offices) hereby agree on the fo	· · · · · · · · · · · · · · · · · · ·
the construction of ALIMANGO Bridge;	
07-15-06A	
1. The proposed centerline will be located at t of the bridge.	he downstream (as per plan)
n man night of way now, alti-	: -11 -b-t-wahipan
<ol> <li>The Right-of-Way Acquisition and removal of (to be undertaken by the DPWH)</li> </ol>	all obstructions
3. Location of proposed detour if possible at obsumstr	earn if not, the road will be commercement.
4. Highest Water Level, 142.548 m.	www.comerny.
Juna Bare Holoc 35 classes	n in the plan
5. Location of Bore Holes two Bore Holes show	The plant.
Attached herewith is the plan showing the above	agreed items.
Work and planetures of Boundary Library and about	- balan
Names and signatures of Representatives are show	n below.
DPWH Central Office DPWH Regional Offi	Ce
1 7/2	
Mr. Adrieve Porpa (Eng. 14 BOD) Mr. Angling D. Rasumar	(Regil Director Reg. VII)
Mr. Edwin Fortes (Engrill PS) Mrs. Charja Madi	, ,
The second in its	
	and the second of the second o
$(x_1, x_2, y_1, x_2, \dots, y_n) = (1, \dots, y_n)$	
DPWH District Office Katahira & Enginee	rs International
Mrs. Filipinado D. Oyau Mr. Masao Aizau	a (Geotechnical Surveyor)
(OIC Tolgan Engineering Office) Pilmy Sugar	4924
Mr.! Kenji Sugawa	ra (Topographic Surveyor
Engr. Citato Salazar	
Engr. It (Toledo City Engg. Office)	

Note: Defour road no need for the road will be closed to traffic upon commencement of construction 5-17

Note: Detour Road no need for the road will be closed to traffic upon commencement of construction. TO TOLLEGO CITY Engrill DPWH Cent 138.05 132.78 137.96 GENERAL ELEVATION Mr. Masao Aizawa Geolechnical Surveyor (KEI) Henji Sugawara Mr. Kenji Sugawara 67-15-064 ALIMANSO BAIDS Topographic Surveyor (KEE) prwH Regional GENERAL NOTES 1. LOCATION OF BRIDGE SHOULD BE DETERMINED BY THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH).

2. STRUCTURAL DIMENSIONS OF SUPERSTRUCTURES SHOULD NOT BE AMENDED.

3. TYPES AND DIMENSIORS OF SUBSTRUCTURES SHALL BE JUSTIFIED ACCORDING TO THE DETAILED DESKIN OF SUBSTRUCTURES PREPARED BY DPWH.

4. VERTICAL CLEARANCE BETWEEN THE MIFL AND THE BOTTOM OF THE GIPPERS OF THE SUPERSTRUCTURE SHALL BE NOT LESS THAN 1.0 METER (CARRYING NO BIO DEERIS). 5. DESIGN SPECIFICATION
ABSHID STANDARD SPECIFICATION FOR HISHWAY BRIDGE (14th EDITION 1989) DEAD LOAD CONCRETE 23.54 KN/m<sup>3</sup>
FILL MAYSHALS 17.66 KH/m<sup>3</sup>
LIVE LOAD ROADWAY LIVE LOAD HS 20-44 (MS-18)
SIDEVALK LIVE LOAD 2.673 KH/m<sup>2</sup> TEMPERATURE CHANGE RISE + 10° FALL-10° EARTHQUAKE LOAD IN ACCORDANCE WITH "GUIDELFIE FOR SESMIC DESIGN OF BRIDGES" OTHER LOADS: IN ACCORDANCE WITH 1989 AASHTO SPECIFICATION 7. MATERIALS
STEEL FOR SUPERSTRUCTURE
STEEL SHALL BE SPECIFIED BY JIS (JAPANESE
INDUSTRIAL STANDARD)
THE STANDARD CONCRETE GROEF CONCRETE FOR PRESTRESSED CONCRETE GROEF 16's 34.5 MPO CONCRETE FOR DECK SLAB 16's 20.7 MPO CONCRETE FOR SUBSTRUCTURE 16's 20.7 MPO OTHER MATERIALS SHALL CONFORMED TO ASTM GENERAL PLAN

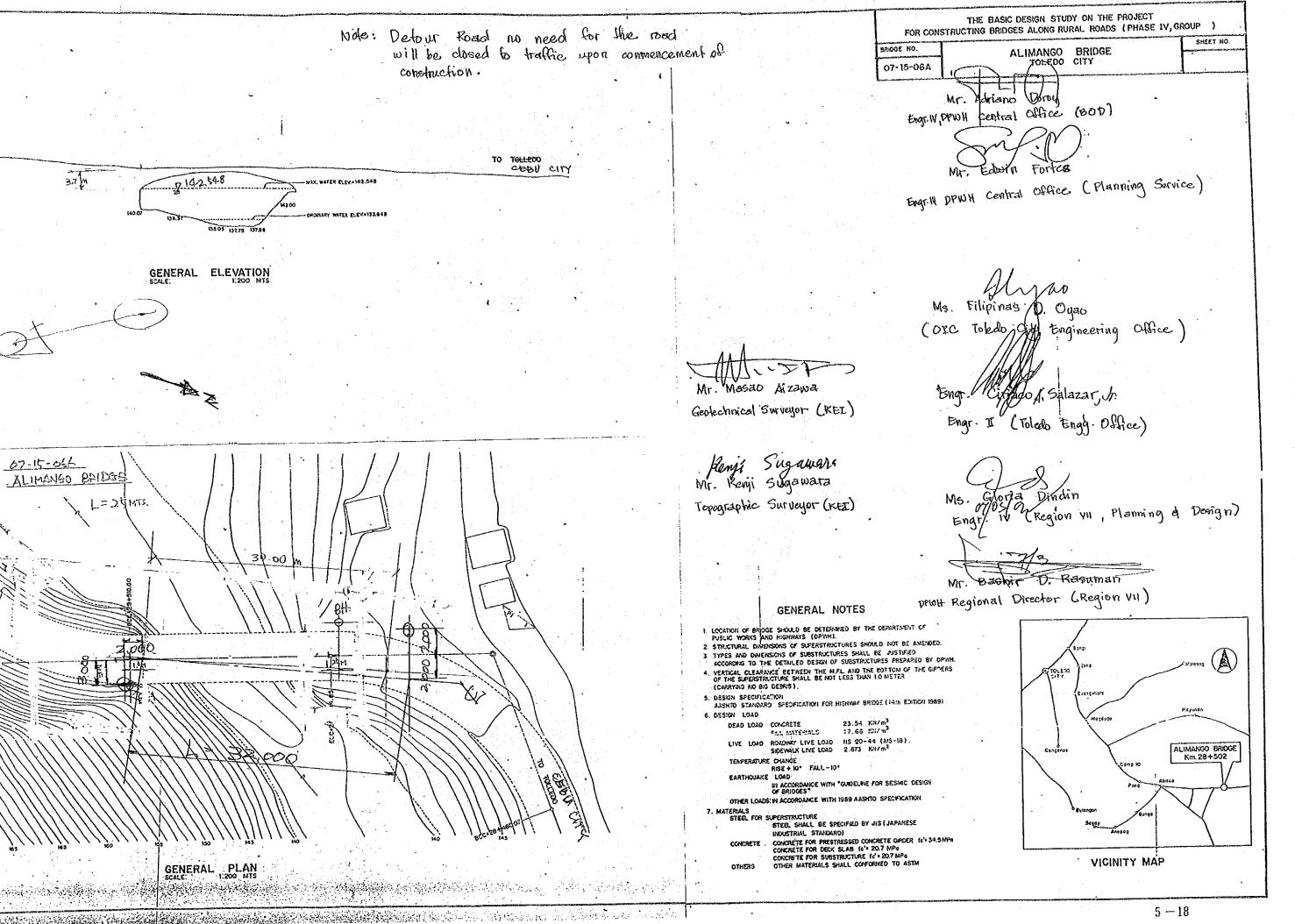
FOR CONSTRUCTING BRID

SRIDGE NO.

07-15-06A

Engr. IV, DPWH Centre

(Orc Toledo



#### KATAHIAA & ENGINEERS INTERNATIONAL

TORYD, JAPAN -



Teurukama Bidg., 4-12-8 Ginza Chuo-ku, Tokyo, Japan Cable Address: ENGKATAHRA TOKYO (Telephone: 03-583-4053 Telex: 2523838 KATAEG J Facelmille: 03-583-4055

	Date: July 5, 1992
Gent	lemen,
Eng! Regi	In connection with the Japan's Grant Aid, the Project for tructing Bridges Along Rural Roads (Phase IV, Group 2), Katahira & neers International and representatives from DPWH (Central, onal and District Offices) hereby agree on the following items for construction of ANAS Bridge;  1. The proposed centerline will be located at the existing centerline of the bridge.
	2. The Right-of-Way Acquisition and removal of all obstructions (to be undertaken by the DPWH)
	3. Location of proposed detour Fording at upstream.
· ·	4. Highest Water Level, 50.20 m.  5. Location of Bore Holes holes holes in the plan howing the above agreed items.
	Names and signatures of Representatives are shown below.
Mr.	Edwin today lengr. 11 (Edwin today Const. Div. Chief, Reg. VIII)  Edwin today lengr. 11 (Edwin today Const. 11)  Reg. VIII (Edwin today Const. 11)
	Roumus D. Mejia (bot. RE. Bilitan Daties)  Mr. Masab Algawa (Geotechnical Surveyor)  Mr. Kenji Sugawara (Topographic Surveyor)
	•

## किंद्राहर् के राष्ट्र

DL 4000 Existing detout (Fording.) 4.00 TO ALMERIA 30700 = 600 Ø53 6.00 6.0D

GENERAL PLAN

Mr. Masao Aizawa

Geotechnical Surveyor (KEI)

Mr. Kenji Sugawara

topographic Surveyor (KEI)

o Presently used defour (fording) which is located at the upstream side of the existing bridge will be utilized.

o Proposed centerline of new bridge coincided with the centerline of existing bridge.

#### GENERAL NOTES

- EDICATION OF BRIDGE SHOULD BE DETERMINED BY THE SEPARRIENT OF PUBLIC WORKS AND INSHMIN'S (OPWH).

- TYPES AND DEMERSIONS OF SUMETRICTURES SHALL SE SECTION ADDITION TO THE DETAILED DESIGN OF SUMETRICTURES PREPARED 8 VEHTKAL OLEANANCE SETWEEN THE MIFL AND THE SOTTOM OF THE OF THE SUPERSTRUCTURE SHALL SE NOT LESS THAN LO METER. SCAMETING NO BIG SEERIS).

SCADURY LINE LOAD HS 20-44 (MS-S)

CONCRETE FOR PRESTRESHED CONCRETE ORDER (
CONCRETE FOR DESCRIPTION OF \$1.00 T MPs
CONCRETE FOR SUBSTRUCTURE \$2.20.7 MPs
OTHER MATERIALS SHALL CONFORMED TO ASTA

Engt. 1V

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celso deer. CHI E

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... THE BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTING BEDGES ALONG RURAL ROADS (PHASE IV , GROUP, F) \$48E7 NO. ANAS BRIDGE The etted tender 20ther Mr. Masao Aizawa Eugt. 14 , Bureau of Design, Central Office Geolechnical Surveyor (KEI) Mr. Kenji Sugawara TO WAVAL WEE Fortes topographic Surveyor (KEI) Engr. III, Planning Service, Central Office Presently used defour (fording) which is located at the upstream side of the existing bridge will be utilized. Amplant District Eggr. (Biliran Dist.) Reg. YIII o Proposed centerline of new bridge coincided with the centerline of exer, orvired of pro (Reg. VIII) existing bridge. CONELF, ARD (Ragion VIII) Existing defour (Fording.) GENERAL NOTES 30 70,0 = 60,0 Ø63 ANAS BRIDGE Km 102 + 820 GENERAL PLAN CONCRETE POR PRESTRESSED CONCRETE GREER CONCRETE FOR DECK 94.48 (c = 20.7 MPs CONCRETE FOR SUBSTRUCTURE 86 420.7 MPs THAT MATERIALS SHALL COMPONING TO ASTRA VICINITY MAP 5 - 20

### KATAHIRA & ENGINEERS INTERNATIONAL

TOKYO,JAPAN -



Teurukeme Bidg., 4-R-B Ginze
Chuc-ku, Tokyo, Jepan
Ceble Addrese: ENGKATAHIRA TOKYO
Telaphone: 03-583-4053
Telox: 2523836 KATAEG J
Fecelmile: 03-583-4055

	Data: Cluby 5, 1992	
Gent	tlemen,	
Engi Regi	In connection with the Japan's Grant Aid, the Project for structing Bridges Along Rural Roads (Phase IV, Group 2), Katahira & ineers International and representatives from DPWH (Central, ional and District Offices) hereby agree on the following items for construction of DABETT Bridge;  1. The proposed centerline will be located at the downstream of the bridge.	
	2. The Right-of-Way Acquisition and removal of all obstructions (to be undertaken by the DPWH)	
	3. Location of proposed detour existing bridge.	
	4. Highest Water Level, 51.40 m.	
	5. Location of Bore Holes Three (3) Bore Holes as indicated in the plan.	
	Attached herewith is the plan showing the above agreed items.	
•	Names and signatures of Representatives are shown below.	
<u>Mr.</u>	Edwin Forks (Engr. III (8.5.)  DPWH REDIONAL Office  (Acst. Riv. Chic.), Rey,  While I Hamber un (Swar. 7 cause, Poo) Reg	
/	Regionis D. Mejia (Lost D.t. Bitisan District)  Mr. Massao Aizawa (Geolechnical Surveyor)  Anyi Sugawara (Topographic Surveyor)  Mr. Kenji Sugawara (Topographic Surveyor)	

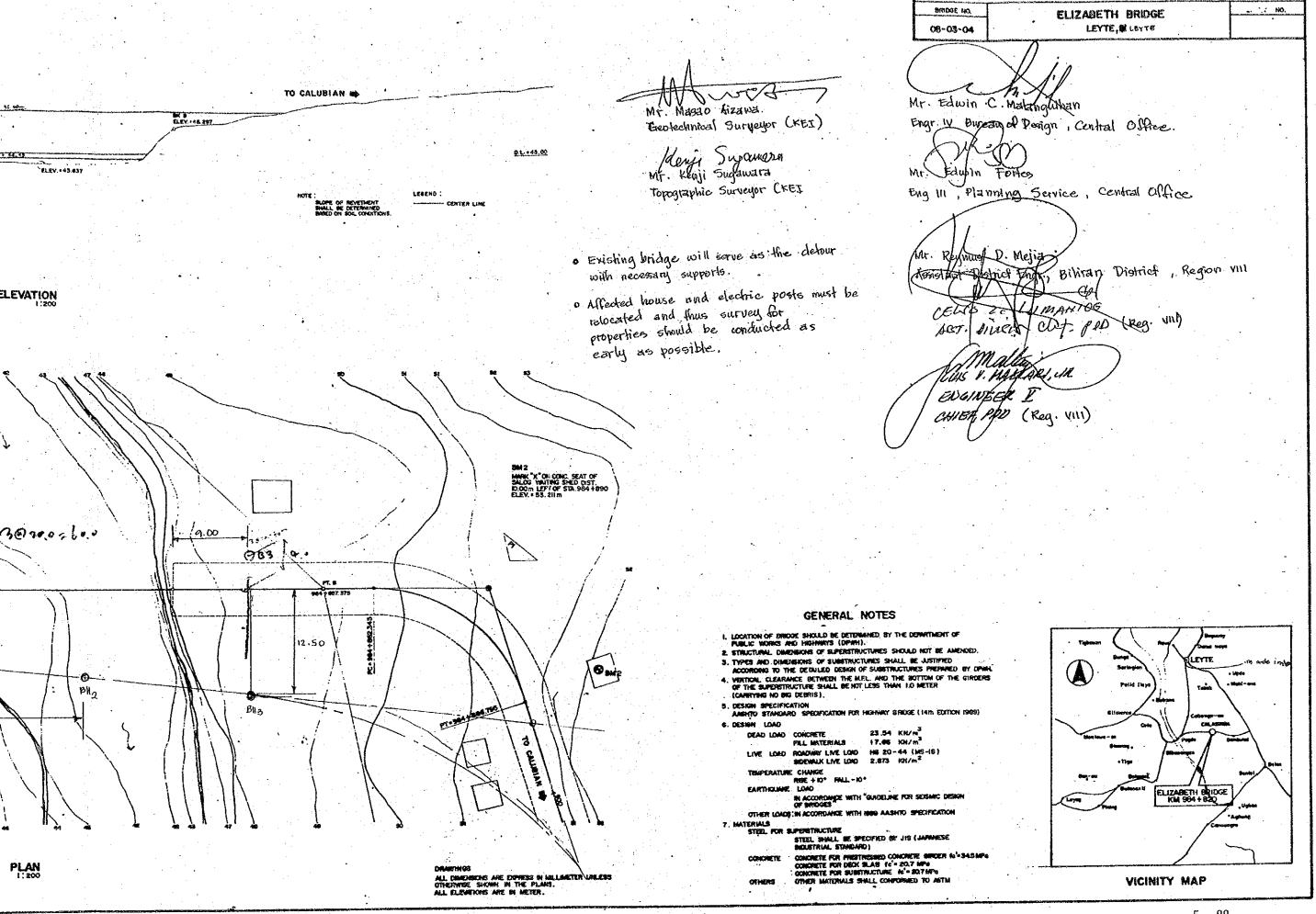
TO CALUBIAN = Mr. Magao Aizawa. ELEV - 48 297 Geolechnical Surveyor (KEI) 8K A ELEV. +47.053 denji Supamara Mf. Kenji Sugamara Topographic Surveyor CKEI D.L • 45.00 01 145.00 "ELEV. +43.637 LEGEND : · Existing bridge will some as the detour with necessary supports. o Affected house and electric posts must be relocated and thus survey for properties should be conducted as GENERAL ELEVATION early as possible. Be 30,00 600 6.70 Ø83 0. 10 902 12.50 3. TYPES MID DIMENSIONS OF SUBSTRUCTURE ACCORDING TO THE DETAILED CESION OF 4. VERTICAL CLEARANCE BETWEEN THE MELL OF THE SUPERSTRUCTURE SHALL BE NOT LI (CARRYING NO BIG DEBRIS). **8** m/2 PI12 5. DESIGN SPECIFICATION AASHTO STANDARD SPECIFICATI Bha 40.00 GENERAL PLAN

#### GENERAL N

- I. LOCATION OF BRIDGE SHOULD BE CETERAL PUBLIC WORRS AND HIGHHAYS (DPWH)

- DEAD LOAD CONCRETE FELL MATERIALS
- LIVE LOAD ROADWRY LIVE LOAD SIDEWALK LIVE LOAD
- RISE + 10\*

- - STEEL SHALL BE SPEC INCLISTRIAL STANDARD
  - CONCRETE FOR PRESTRE CONCRETE FOR DECK 20. CONCRETE FOR SUBSTRE OTHER MATERIALS SHA



THE BASIC DESIGN

FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE IV, GROP 2 )

ON THE PROJECT

### 付属資料6

測量調査

被1 剪氧成聚品一路数

地形平面図 (枚)		g4	<b></b> 4.	<b>.</b>	<b>.</b> —₹	<b></b>	<b></b>	•••	•t		<b>~</b>	11
概 (箇所)	8	m	4	4		2	2	7	73	7	(7)	58
河川橫断測盘 (斯面)	Ξ	11	10	23	15	0	6	20	ø	12	17	114
道路橫断測亞 (斯面)	24	15	0 .	10	13	18	21	15	21	13	18	168
族 (m) 由(m)	540	330	400	240	345	350	540	520	300	. 260	360	4, 185
中心級測監(m)	240	330	400	240	345	350	540	520	300	097	360	4, 185
<b>新</b> 公 包	km. 607 + 023,60 Gubat-Barcelona-Bulusan Road Barcelona, Sorsogon	km. 151 + 600 Vorac-San Andres-Caramoran Pandan Road, Catanduanes	km. 56 + 129.33 From Masbare Port, Masbate-Arorof Road Masbate	km. 37 + 739.78 From Masbate Port Masbate-Balud Road, Masbate	km. 70 + 900 Tiolas-Sinogbuhan Road San Joaquin, Iloilo	km. 97 + 803 Toledo-Tabuelan Road Cebu i	km. 131+ 248 Antonio de Pio Highway Cebu i	km. 0+ 200 From Tabunok Tabunok-Talisay Road, Cebu II	km. 63 + 000 Barilli-Mantayupan Road Barilli, Cebu Ii	km. 102+ 820 From Port of Ornoc City to Naval-Almeria and Circumferential Road Bifiran Sub-Provínce	km. 984+ 820 Lemon-Sambolawan-Calaguise-Calubian Road Leyle II	†m
就	Banquerohan Bridge	Hitona Bridge	Lanang Bridge	Potot Bridge	Lawigan Bridge	Apalan Bridge	Tambongon Bridge	Majon Bridge	Alimango Bridge	Anas Bridge	Elizabeth Bridge	⟨0
極終路中	05. 02. 04	05. 03. 01	05. 66. 04	05. 06. 05	06. 06. 04	07. 05. 01	07. 05. 05	07. 06. 07	07. 15. 06A	08.01.01	08. 03. 04	
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