

資料 1

I. 調査団員・氏名

(1) 現地調査Ⅰ【2010年8月1日～28日】

氏名	業務内容	所属
永石 雅史	団長	JICA フィリピン事務所 元次長
小林 千晃	計画管理	JICA 地球環境部 水資源・防災グループ 防災第一課
道川 久文	業務主任／建築計画／運営維持管理	株式会社 毛利建築設計事務所
毛利 信弘	建築計画	株式会社 毛利建築設計事務所
山本 晋一	施設設備計画	株式会社 毛利建築設計事務所
宮崎 良	災害・自然条件調査	OYO インターナショナル 株式会社
一番ヶ瀬 佳昭	施工計画／調達計画／積算	株式会社 毛利建築設計事務所
岡田 有希子	業務調整／教育計画／運営維持管理補助	株式会社 毛利建築設計事務所

(2) 現地調査Ⅱ（概要説明調査）【2011年2月18日～27日】

氏名	業務内容	所属
上野 和彦	団長	JICA フィリピン事務所 次長
田中 顕治	計画管理	JICA 地球環境部 水資源・防災グループ 防災第一課
道川 久文	業務主任／建築計画／運営維持管理	株式会社 毛利建築設計事務所
毛利 信弘	建築計画	株式会社 毛利建築設計事務所
山本 晋一	施設設備計画	株式会社 毛利建築設計事務所
岡田 有希子	業務調整／教育計画／運営維持管理補助 (自主補強)	株式会社 毛利建築設計事務所

II. 調査工程

(1) 現地調査 I

日付		(A)	(B)	(a)	(b)	(c)	(d)	(e)	(f)
		JICA 団長	JICA 計画監理	業務主任/建築計画/運営 維持管理	建築設計	施設設備計画	災害・自然条件調査	施工計画/調達計画/積 算	業務調整/教育計画/運 営維持管理補助
		永石進史 4日	小林千晃 11日	遠川久文 29日	毛利信弘 22日	山本晋一 26日*	宮崎良 28日	一番ヶ瀬信昭 22日	岡田有希子 28日
1	8月1日	日	成田→マニラ				成田→マニラ		成田→マニラ
2	8月2日	月	JICA 大使館, NEDA, PHIVOLCS表敬				(a)に同行		(a)に同行
3	8月3日	火	マニラ→レガスピ インセプションレポート合同会議(参加者: アルバイ州知事・APSEMO・州技術事務 所・アルバイ教育事務所・レガスピ市教育事務所・MGB・対象校長および AECID) 、サイト視察、AECID対象校視察			成田→マニラ	同上		同上
4	8月4日	水	州技術事務所・NEDA Region5事務所・リボン町役場表敬、サイト視察、ミニッツ協議			現地再委託業務	同上		同上
5	8月5日	木	ミニッツ署名、レガスピ→ マニラ	ミニッツ署名、サイト視察、AECID対象校視察		同上	同上		同上
6	8月6日	金		PHIVOLCS観測所訪問、AECID聞き取り調査		建築基準関連調査	同上		同上
7	8月7日	土		レガスピ→マニラ	資料整理	成田→マニラ	同上	成田→マニラ	同上
8	8月8日	日		園内打ち合わせ	マニラ→レガスピ		資料整理	マニラ→レガスピ	資料整理
9	8月9日	月		DePEDとVAT免税協議 JICA、大使館報告	ステークホルダーミーティング (SHM)準備	サイト調査準備	(a)に同行	施工計画/調達計画/積 算関連調査	(a)に同行
10	8月10日	火		内訪打ち合わせ	SHM リボン	サイト調査 リボン コミュニカレッジ	(a)に同行	同上	(a)に同行
11	8月11日	水		マニラ→成田	SHM ボランギ北小学校	サイト調査 ボランギ北小学校	(a)に同行	同上	(a)に同行
12	8月12日	木			SHM オアス南小学校	サイト調査 オアス南小学校	(a)に同行	同上	(a)に同行
13	8月13日	金			SHM マニト小学校	サイト調査 マニト小学校	(a)に同行	同上	(a)に同行
14	8月14日	土			資料整理				
15	8月15日	日			資料整理				
16	8月16日	月			SHM サントドミンゴ小学校	サイト調査 サントドミンゴ小学校	(a)に同行	調達調査	(a)に同行
17	8月17日	火			SHM ゴゴン小学校	サイト調査 ゴゴン小学校	(a)に同行	同上	(a)に同行
18	8月18日	水			建築調査		Facilities, M & E 調査	Disaster 調査	同上
19	8月19日	木			同上	同上	同上	同上	同上
20	8月20日	金			同上	同上	同上	同上	同上
21	8月21日	土			同上	同上	同上	同上	同上
22	8月22日	日			資料整理	資料整理	レガスピ→マニラ	資料整理	資料整理
23	8月23日	月			追加調査、APSEMOと協議	設備計画調査	災害調査	積算調査	(a)に同行
24	8月24日	火			テクニカルノート署名	同上	レガスピ→マニラ	同上	同上
25	8月25日	水			追加資料収集	レガスピ→マニラ 建築関連調査	現地再委託業務	PHIVOLCS調査	同上
26	8月26日	木			レガスピ→マニラ 建築関連調査	建築関連調査	同上	同上	レガスピ→マニラ
27	8月27日	金			JICA、大使館報告	同上	(a)に同行	積算調査	同上
28	8月28日	土			マニラ→成田				

*山本の8月3日～8月6日は自主精査

(2) 現地調査 II (概要説明調査)

現地調査 II 日程案

日時	官団員 上野団長、田中調査企画1 キャサリン調査企画2	(a)	(b)	(c)	(d)
		業務主任/建築計画/運営 維持管理	建築設計	施設・設備計画	業務調整/教育計画/運営 維持管理(自主精査)
		遠川 久文	毛利 信弘	山本 晋一	岡田有希子
	7日間	10日間	10日間	10日間	6日間
1	2月18日	金	成田0930→1330マニラ(JL741)、補足調査		
2	2月19日	土	補足調査		
3	2月20日	日	成田→マニラ(田中) 団内協議	マニラ0630→0730レガスピ(PR277)	成田→マニラ
4	2月21日	月	JICA事務所/EOJ/NEDA/PHIVOLCS/MGB/DePED表敬	APSEMO表敬、サイト補足調査	a)に同行
5	2月22日	火	マニラ0630→0730レガスピ(PR277)、APSEMO概要説明、ミニッツ協議	サイト視察 (リボン、ボランギ、オアス)	サイト補足調査
6	2月23日	水	NEDA Region V事務所、サントドミンゴMDCC、サイト視察 (サントドミンゴ、ゴゴン)、AECID施設 視察		同上
7	2月24日	木	知事と協議、サイト視察(マニト)、DePEDアルバイ州事務所、APSEMOでミニッツ協議		同上
8	2月25日	金	レガスピ→マニラ、JICA/大使館報告	レガスピ0800→0900マニラ(PR278)補足調査	レガスピ→マニラ→成田
9	2月26日	土	マニラ→成田(田中)	補足調査	
10	2月27日	日		マニラ0910→1420成田(JL746)	

III. 相手国関係者リスト

アルバイ州 Province of Albay

Mr. Joey Salceda	アルバイ州政府	州知事
Mr. Cedric B. Daep	アルバイ州公共安全災害管理事務所	所長
Mr. Jukes Nunez	アルバイ州公共安全災害管理事務所	特別活動担当官 IV
Mr. Roderick P. Mlendoza	アルバイ州公共安全災害管理事務所	計画担当官 II
Mr. Dante B. Baclao	州技術事務所	州統括技官
Mr. Joseph Paul Ronda	州技術事務所	技官 III
Mr. Rommel M. Millena	州技術事務所	技官補佐
Mr. Alfred A. Artiaga	州技術事務所	建築補佐
Mr. Alain B. Mape	州保健事務所	衛生技官 IV
Mr. Noel. P. Penarubia	州消防局	副消防局長
Mr. Joseph M. Martinez	州消防局	火災安全実施課長
Mr. Jesus U. Reyes	州消防局	管理課長

教育省 Department of Education

Mr. Jesus L.R. Mateo	教育省	次官補
Mr. Dexter N. Pante	教育省	上級教育専門家
Ms. Mariel C. Bayangos	教育省	プロジェクト開発担当 II
Ms. Alice I. Terrell	教育省アルバイ州事務所	所長
Mr. Edison L. Mallapre	教育省アルバイ州事務所	施設課長
Ms. Aida Santos Noora	教育省アルバイ州事務所	計画担当官 II
Mr. Albert N. Bonagua	教育省アルバイ州事務所	予算担当官
Mr. Alexander Z. Oloteo	教育省アルバイ州事務所	事務補佐
Ms. Zenaida Andes	教育省アルバイ州事務所 マニト支部	支部長
Mr. Epifano B. Buela	教育省レガスピ市事務所	所長
Mr. Nicolas M. Revale	教育省レガスピ市事務所	支部長
Mr. Vincent B. Bejo	教育省レガスピ市事務所	教育プログラム専門家 I
Mr. Jean R. Baloloy	サントドミンゴ中央小学校	元校長 II
Ms. Aileen P. Manzenilla	サントドミンゴ中央小学校	校長 I
Ms. Malve R. Serranilla	オアス南中央小学校	校長 I
Ms. Zenaida P. Ruivivar	ポランギ北中央小学校	校長 II
Mr. Bayani L. Saez	マニト中央小学校	校長 II
Ms. Maria Cecilia Betiz	ゴゴン中央小学校	教員統括

地震火山研究所 Philippine Institute of Volcanology and Seismology

Dr. Renato U. Solidum	所長
Dr. Bartolome C. Bautista	副所長
Ms. Ma. Lynn Melosantos	上級科学研究員
Ms. Mabelle Cahulogan	科学研究員 I
Ms. Ma. Hannah Mirabueno	科学研究員

Mr. Edwardo P. Laguerta	上級科学研究員
Ms. Ma. Antonia V. Bornas	上級科学研究員
Ms. Perla J. Delos Reyes	監督科学研究員・統括

国家経済開発局 National Economic and Development Authority

Mr. Joseph N. Y. Capistrano	国家経済開発局	監督経済開発専門家
Ms. Rohna B. Caoli-Rodriguez	国家経済開発局	上級経済開発専門家
Ms. Loida G. Panopio	国家経済開発局	上級経済開発専門家
Mr. Joseph Paglingayen	国家経済開発局	上級経済開発専門家
Ms. Kathleen Virtusio	国家経済開発局	経済開発専門家 II
Mr. Orvhil Edcarson Cardenas	国家経済開発局	上級経済開発専門家
Ms. April M. Mendoza	国家経済開発局	上級経済開発専門家
Ms. Ameta B. Benjamin	国家経済開発局	経済開発専門課長
Mr. Vziel T. Corcuera	国家経済開発局	経済開発専門家 I
Mr. Vykmom B. Gasco	国家経済開発局	経済開発専門家 II
Mr. Luis Banua	国家経済開発局 (Region 5)	統括
Ms. Edna Cynthia S. Berces	国家経済開発局 (Region 5)	経済開発専門課長

鉱山地質局 Mines and Geosciences Bureau

Mr. Sevillo David Jr.	地質課長
Mr. Ramon D. Quebral	地質学者
Ms. Arlene E. Dayao	監督地質学者

市町村 City / Municipality

Ms. Galadin B. Rosal	レガスピ市役所	市長
Mr. Noel E. Rosal	レガスピ市役所	事務官
Mr. Felos B. Intia	レガスピ市役所	市災害管理委員会 防災監
Ms. Agnes P. Dycoco	リボン町	町長
Ms. Ela P. Pavilanido	リボン町	職員統括
Ms. Jesusa C. Cambaling	リボン・コミュニティカレッジ	理事長
Mr. Edwin Villanueva	リボン・コミュニティカレッジ	コンピューターハードウェアコース責任者
Mr. Caesar S. Daep	マニト町役場	町長
Ms. Maria Loida D. Espinas	マニト町役場	事務補佐 IV
Ms. Myrwa S. Ferrer	マニト町役場 社会保障・開発課	社会保障・開発担当官
Mr. Roberto Alvarez	マニト町役場	町技術者
Mr. Arnold B. Calsina	マニト町役場	町災害管理委員会 防災監
Ms. Hayne M. Baloloy	マニト・コミュニティカレッジ	学長
Ms. Marjorie D. Paga	マニト・コミュニティカレッジ	総務係
Mr. Salvador B. Ustsardante	オアス町役場	町災害管理委員会 防災監
Mr. Norberto S. Sabaybay	ポランギ町役場	町災害管理委員会 防災監
Mr. Jesus B. Peralta	サントドミンゴ町役場	町技術者

Mr. Romeo Cabria サントドミンゴ町役場 計画開発課 課長 (兼災害管理委員会防災監)

電力会社 Albay Electric Cooperative

Mr. Ramil R. Sanchez TSD 課長

水道局 Legazpi City Water District

Mr. Nestor Y. Rico 技術部長

民間防衛事務所 Office of Civil Defense

Ms. Emila Tadeo 管理部長

ラジオ局 Radio Station DZGB

Mr. Edgar Barrameda 局長

赤十字 Red Cross

Mr. Hilaru B. Andes 事務官

スペイン開発援助庁 Spanish Agency for International Development Cooperation (AECID)

Ms. Glenna D. Drogo 事務・経理担当

在フィリピン共和国日本国大使館 Embassy of Japan

吉野 広郷 二等書記官

JICA フィリピン事務所 JICA Philippine Office

永石 雅史	元次長
上野 和彦	次長
桑江 直人	所員
野村 陽子	元企画調査員 (防災)
中村 隼人	企画調査員 (防災)
奥田 晃久	治水政策アドバイザー
キャサリン パランカ	職員

IV. 討議議事録 (M/D)

(1) 現地調査 I

Minutes of Discussions
on
The Preparatory Survey
on
the Project for Evacuation Shelter Construction
in Disaster Vulnerable Areas in Province of Albay,
in the Republic of the Philippines

In response to a request from the Government of the Philippines (hereinafter referred to as "the GOP"), the Government of Japan (hereinafter referred to as "the GOJ") decided to conduct a Preparatory Survey on the Project for Evacuation Shelter Construction Project in Disaster Vulnerable Areas in Province of Albay (hereinafter referred to as "the Project") in the Republic of the Philippines (hereinafter referred to as "the Philippines") and entrusted the survey to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

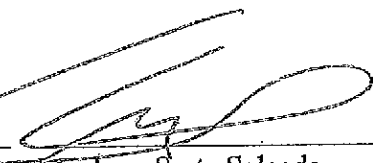
JICA sent to the Philippines the Preparatory Survey Team (hereinafter referred to as "the Team"), which is headed by Mr. Masafumi Nagaishi, Senior Representative, JICA Philippines Office and is scheduled to stay in the country from 1st to 28th August 2010.

The Team held discussions with the concerned GOP officials and conducted a field survey at the study area. As a result of discussions and field survey, both parties confirmed the main items described in the attached sheets. The Team will proceed to further works and prepare the Preparatory Survey report.

Legazpi, 5th August, 2010



Mr. Masafumi Nagaishi
Leader
Preparatory Survey Team
Japan International Cooperation Agency



Mr. Joey Sarte Salceda
Governor
Province of Albay
The Republic of the Philippines

ATTACHMENT

1. Name of the Project

Both sides agreed to name the title of the Project as "The Project for Evacuation Shelter Construction in disaster vulnerable areas in Province of Albay"

2. Objective of the Project

Both side agreed that the objective of the Project is to construct emergency evacuation shelters with related facilities in project sites referred as 5. to mitigate the risks of damage from the disaster to protect lives and properties.

3. Responsible and Implementing Agency

The responsible agency for the Project is the Provincial government of Albay represented by Albay Public Safety and Emergency Management Office (APSEMO). As for the implementation phase, the implementing agencies are Department of Education (Legazpi City Division and Division of Albay), Municipality of Libon and Provincial Engineers Office of Albay. They are responsible for operation and maintenance of the facilities implemented by the Project after completion of the Project. The organization charts of responsible and implementing agencies are shown in **Annex-1**

4. Project Site

The Project site is located in the Province of Albay. The Project site is marked in the map shown in **Annex-2**.

5. Project Components

In the course of the discussions, the Project components were confirmed to construct evacuation shelters with related facilities in the following project sites.

The Team explained that the budget for the Project would be considered by the GOJ by evaluating result of the Preparatory Survey. Both sides agreed that the Project components as below would be prioritized and selected from the technical consideration as well as in accordance with the budget allocated for the Project.

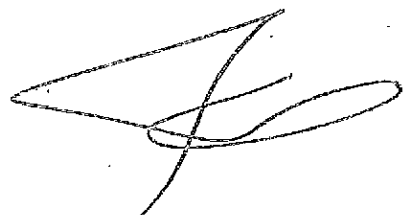
Since there is a limit of budget for the Project, when the realization of the complete request will not be impracticable, the diminution of the sites will be necessary. Both side agreed with the proposed priority of the requested sites, to be used as reference when eliminations of the sites are necessary. When the priority of the requested sites are changed Philippine side inform to GOJ as soon as possible.

-List of project sites and the proposed priority;

- (1) Sto. Domingo Central School
- (2) Gogon Elementary school, Legazpi City
- (3) Polangui North Central School
- (4) Libon Community College
- (5) Manito Central School
- (6) Oas South Central School

6. Japan's Grant Aid Scheme

The Philippine side understood the Japan's Grant Aid scheme and the necessary measures to be taken by the Philippine side as shown in **Annex-3 and 4**.



7. Schedule of the Survey

- 7-1 The Team will proceed for further studies in the Philippines until 28th August, 2010.
- 7-2 The Team will prepare the draft report of the Preparatory Survey in English. JICA will dispatch a mission to explain its contents around January 2011.
- 7-3 In case that the contents of the report are accepted in principle by the GOP, JICA will finalize the report and submit it to the GOP around April 2011.

8. Other Relevant Issues

8-1 Demolishing Work and Provision of Disposal Area of Demolished Construction Debris

Both sides confirmed that the demolishing work of the existing school construction and disposal of construction debris will be undertaken by the Philippine side before commencement of the construction work by the Japanese side.

The Philippine side (i.e. Provincial Government of Albay) agreed to provide the disposal area of demolished construction debris of the existing school construction at own cost and take necessary measures according to the related law before commencement of the construction work by Japanese side.

8-2 Operation and Maintenance

The Philippine side (i.e. Provincial Government of Albay, Department of Education (Legazpi City Division and Division of Albay) and Municipality of Libon) agreed to allocate sufficient budget and qualified staff for proper and effective operation and maintenance of the Project.

8-3 Value Added Tax (VAT)

The Philippine side (i.e. Provincial Government of Albay) secure the budget or take necessary procedures for exemption of VAT.

8-4 Removal of residences within the site

The Philippine side (i.e. Provincial Government of Albay/Municipality of Libon) side agreed to remove the residences within the project site (Libon Community College) before September 2010.

8-5 Arrangements for the Survey

As a response to the request by the Team, The Philippine side agreed to arrange following:

- 8-5-1 To provide the Team with available relevant data, information and materials necessary for the execution of the Survey;
- 8-5-2 To provide the office space and its facilities to the Team;
- 8-5-3 To prepare the answers for the Questionnaires presented by the Team;
- 8-5-4 To assign full-time counterparts to the Team during their stay in the Philippines and to take the following roles as the coordinator to the Team;
 - (1) To make the appointments and to set up the meetings with the authorities, departments and all other factories and firms whatever the Team intends to visit
 - (2) To attend the site survey and any other visiting places with the Team and to make any convenience on accommodation, working room, adequate transportation, getting the permissions if required, etc., and
 - (3) To assist and to advise the Team for their collection of data and information as much as possible
- 8-5-5 To secure the permission to photograph and enter into private properties and restricted areas for the Team for proper execution of the Survey, if necessary;
- 8-5-6 To take any necessary measures deemed necessary to secure the safety of the members of the Team; and
- 8-5-7 To make arrangements to allow the Team to bring back to Japan any necessary data, maps and materials related to the Survey, subject to approval by the GOP, in order to prepare the reports.

Annex- 1 : Organization chart of Responsible and Implementing Agency

Annex- 2 : Project Site

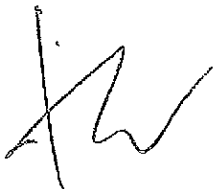
Annex- 3 : Japan's Grant Aid Scheme

Annex- 4 : Major Undertakings to be taken by Each Government

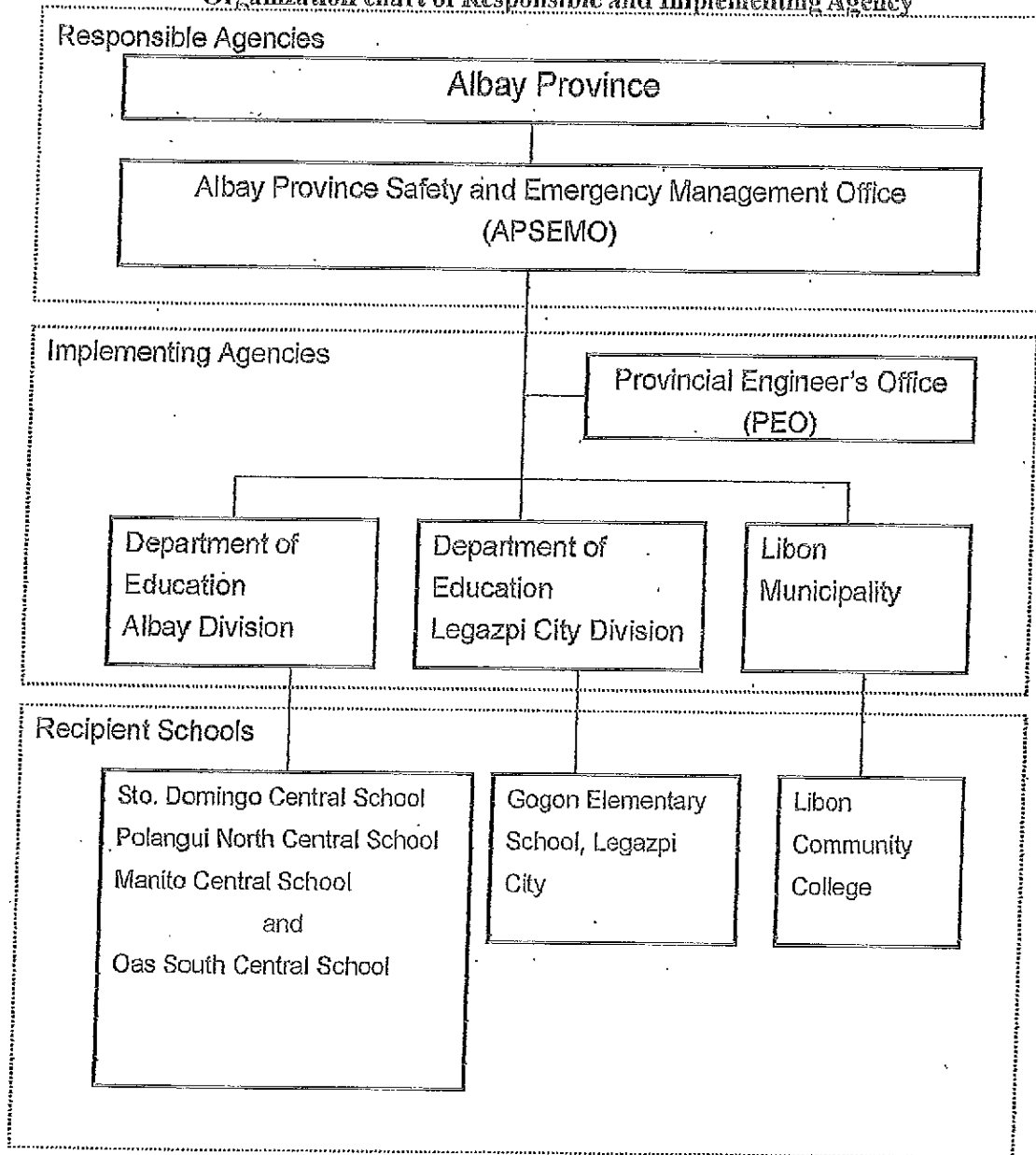


Organization chart of Responsible and Implementing Agency

Under preparing by Philippine side.

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Organization chart of Responsible and Implementing Agency

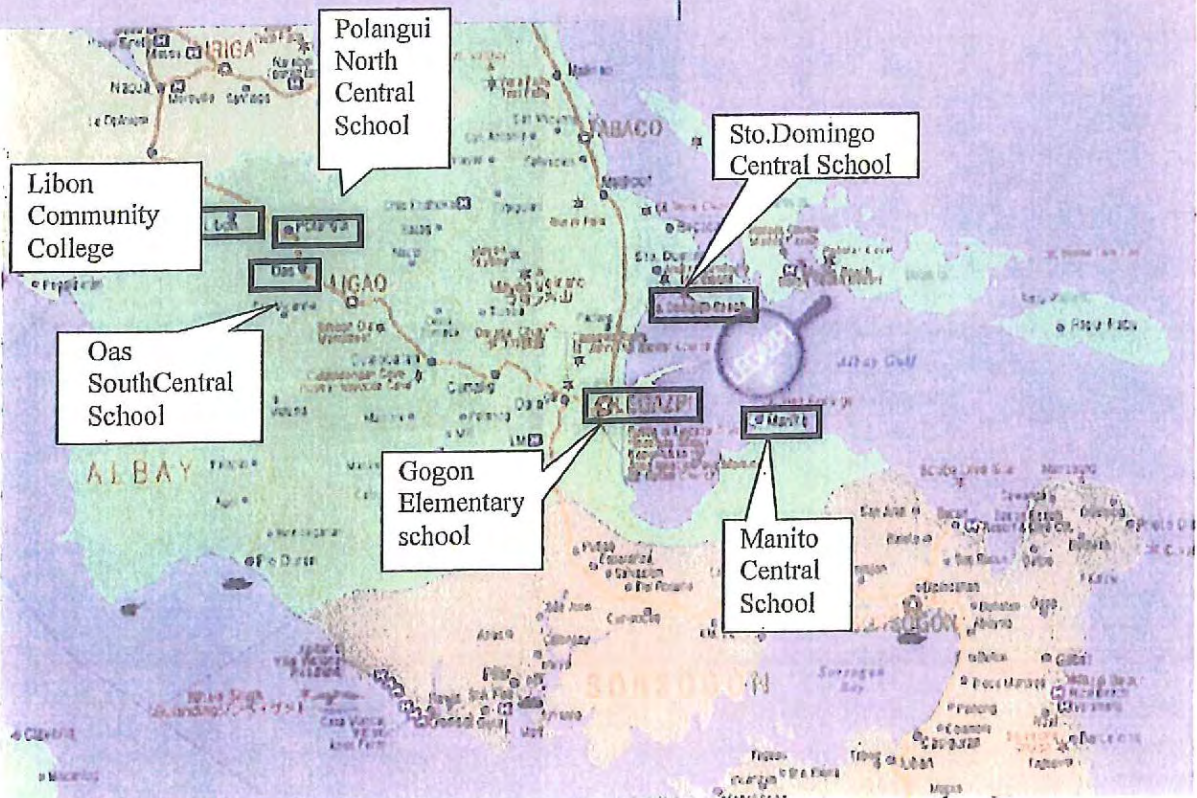
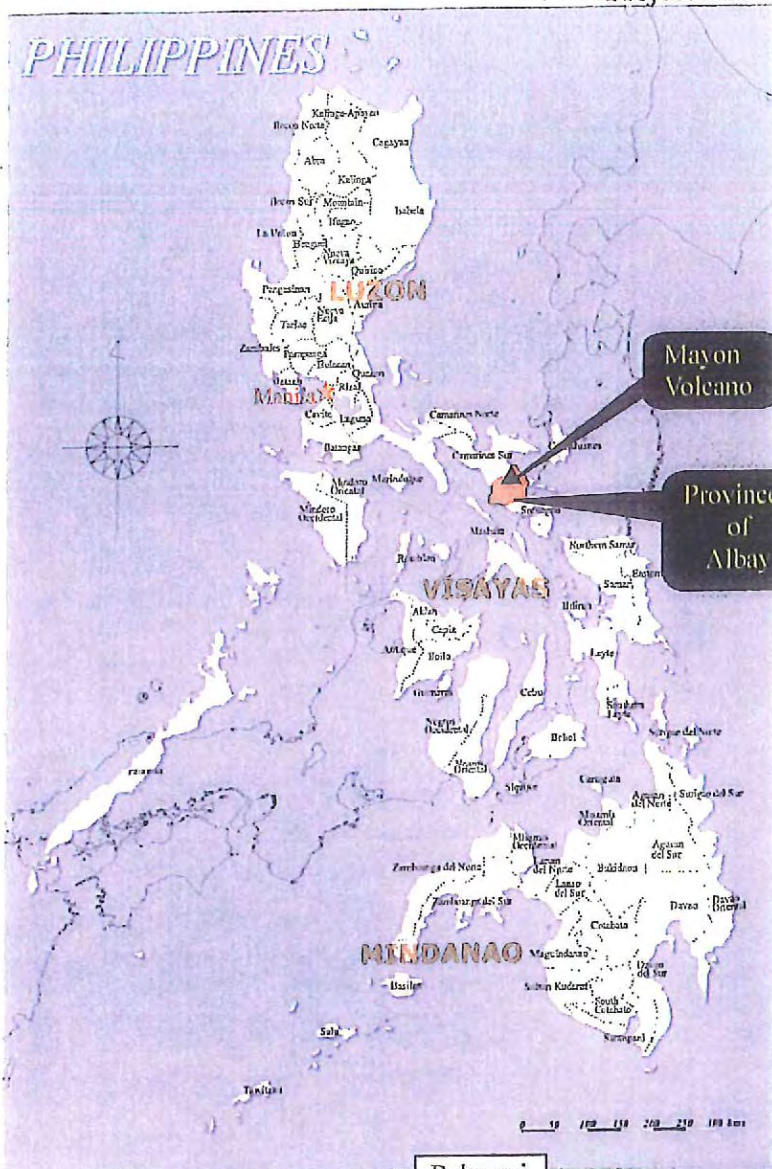


Confirmed by:

Jakes Nunez (APSEMO)

Chiaki Kobayashi (JICA)

Project Site



JAPAN'S GRANT AID

The Government of Japan (hereinafter referred to as "the GOJ") is implementing the organizational reforms to improve the quality of ODA operations, and as a part of this realignment, a new JICA law was entered into effect on October 1, 2008. Based on this law and the decision of the GOJ, JICA has become the executing agency of the Grant Aid for General Projects, for Fisheries and for Cultural Cooperation, etc.

The Grant Aid is non-reimbursable fund provided to a recipient country to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for its economic and social development in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

1. Grant Aid Procedures

The Japanese Grant Aid is supplied through following procedures :

- Preparatory Survey
 - The Survey conducted by JICA
- Appraisal & Approval
 - Appraisal by the GOJ and JICA, and Approval by the Japanese Cabinet
- Authority for Determining Implementation
 - The Notes exchanged between the GOJ and a recipient country
- Grant Agreement (hereinafter referred to as "the G/A")
 - Agreement concluded between JICA and a recipient country
- Implementation
 - Implementation of the Project on the basis of the G/A

2. Preparatory Survey

(1) Contents of the Survey

The aim of the preparatory Survey is to provide a basic document necessary for the appraisal of the Project made by the GOJ and JICA. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of relevant agencies of the recipient country necessary for the implementation of the Project.
- Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, financial, social and economic point of view.
- Confirmation of items agreed between both parties concerning the basic concept of the Project.
- Preparation of a outline design of the Project.




- Estimation of costs of the Project.

The contents of the original request by the recipient country are not necessarily approved in their initial form as the contents of the Grant Aid project. The Outline Design of the Project is confirmed based on the guidelines of the Japan's Grant Aid scheme.

JICA requests the Government of the recipient country to take whatever measures necessary to achieve its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization of the recipient country which actually implements the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country based on the Minutes of Discussions.

(2) Selection of Consultants

For smooth implementation of the Survey, JICA employs (a) registered consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

(3) Result of the Survey

JICA reviews the Report on the results of the Survey and recommends the GOJ to appraise the implementation of the Project after confirming the appropriateness of the Project.

3. Japan's Grant Aid Scheme

(1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the Exchange of Notes (hereinafter referred to as "the E/N") will be signed between the GOJ and the Government of the recipient country to make a pledge for assistance, which is followed by the conclusion of the G/A between JICA and the Government of the recipient country to define the necessary articles to implement the Project, such as payment conditions, responsibilities of the Government of the recipient country, and procurement conditions.

(2) Selection of Consultants

In order to maintain technical consistency, the consulting firm(s) which conducted the Survey will be recommended by JICA to the recipient country to continue to work on the Project's implementation after the E/N and G/A.

(3) Eligible source country

Under the Japanese Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased. When JICA and the Government of the recipient country or its designated authority deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country. However, the prime contractors, namely, constructing and procurement firms, and the

prime consulting firm are limited to "Japanese nationals".

(4) Necessity of "Verification"

The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by JICA. This "Verification" is deemed necessary to fulfill accountability to Japanese taxpayers.

(5) Major undertakings to be taken by the Government of the Recipient Country

In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as Annex.

(6) "Proper Use"

The Government of the recipient country is required to maintain and use properly and effectively the facilities constructed and the equipment purchased under the Grant Aid, to assign staff necessary for this operation and maintenance and to bear all the expenses other than those covered by the Grant Aid.

(7) "Export and Re-export"

The products purchased under the Grant Aid should not be exported or re-exported from the recipient country.

(8) Banking Arrangements (B/A)

a) The Government of the recipient country or its designated authority should open an account under the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). JICA will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

b) The payments will be made when payment requests are presented by the Bank to JICA under an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.

(9) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions paid to the Bank.

(10) Social and Environmental Considerations

A recipient country must carefully consider social and environmental impacts by the Project and must comply with the environmental regulations of the recipient country and JICA socio-environmental guidelines.

(End)



Major Understandings to be taken by Each Government

No	Items	To be covered by Grant Aid	To be covered by Recipient Side
1	to secure of land necessary for the implementation of the Project and to clear the site		o
2	To construct the following facilities		
	1) Evacuation Shelters	o	
	2) The gates and fences in and around the site		o
	3) The access road outside the site		o
3	To provide facilities for distribution of electricity, water supply and drainage and other incidental facilities necessary for the implementation of the Project outside the site		
	1) Electricity		
	a. The distributing power line to the site		o
	b. The drop wiring and internal wiring within the site	o	
	c. The main circuit breaker and transformer	o	
	2) Water Supply		
	a. The city water distribution main to the site		o
	b. The supply system within the site (receiving and elevated tanks)	o	
	3) Drainage		
	a. The city drainage main (for storm sewer and others to the site)		o
	b. The drainage system (for toilet sewer, common waste, storm drainage and others) within the site	o	
	4) Gas Supply		
	a. The city gas main to the site		N/A
	b. The gas supply system within the site	N/A	
	5) Telephone System		
	a. The telephone trunk line to the main distribution frame/panel (MDF) of the building		o
	b. The MDF and the extension after the frame/panel	o	
	6) Furniture and Equipment		
	a. General furniture (school furniture)		o
	b. Project equipment	o	
4	To ensure prompt unloading and customs clearance of the imported products at ports of disembarkation in the recipient country and to assist internal transportation of the products		
	1) Marine (Air) transportation of the Products from Japan to the recipient country	o	
	2) Tax exemption and custom clearance of the Products at the port of disembarkation		o
	3) Internal transportation from the port of disembarkation to the project site		o
5	To ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the purchase of the products and the services be exempted		o
6	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		o
7	To ensure that the Facilities and the products be maintained and used properly and effectively for the implementation of the Project		o
8	To bear all the expenses, other than those covered by the Grant, necessary for the implementation of the Project		o
9	To bear the following commissions paid to the Japanese bank for banking services based upon the B/A(*)		
	1) Advising commission of A/P		o
	2) Payment commission		o
10	To give due environmental and social consideration in the implementation of the Project.		o

(B/A : Banking Arrangement, A/P : Authorization to pay)

(*)Payment of Advising and Payment commission are agreed on Exchange of Notes between the GOP and the GOJ

Minutes of Discussions
on
The Preparatory Survey
on
The Project for Evacuation Shelter Construction in Disaster Vulnerable Areas
in Province of Albay, in the Republic of the Philippines
(EXPLANATION ON DRAFT REPORT)

In response to a request from the Government of the Philippines (hereinafter referred to as “the GOP”), the Government of Japan (hereinafter referred to as “the GOJ”) decided to conduct a Preparatory Survey on the Project for Evacuation Shelter Construction Project in Mayon Volcano Disaster Areas, Province of Albay (hereinafter referred to as “the Project”) in the Republic of the Philippines (hereinafter referred to as “the Philippines”) and entrusted the survey to Japan International Cooperation Agency (hereinafter referred to as “JICA”).

JICA sent to the Philippines the Preparatory Survey Team (hereinafter referred to as “the Team”), which is headed by Mr. Kazuhiko Ueno, Senior Representative, JICA Philippines Office and is scheduled to stay in the Province of Albay from 20th to 25th February 2011.

The Team held discussions with the concerned GOP officials and conducted a field survey at the Project areas. As a result of discussions and field survey, both parties confirmed the main items described in the attached sheets.

Manila, 23rd March, 2011

Mr. Kazuhiko Ueno
Leader
Preparatory Survey Team
Japan International Cooperation Agency

Mr. Joey Salceda
Governor
Province of Albay
Republic of the Philippines

ATTACHMENT

1. Components of the Draft Report

The Philippines side agreed and accepted in principle the components of the Draft Report explained by the Team. The components of the Project are shown in **Annex-1**.

2. Japan's Grant Aid scheme

The Philippines side understood Japan's Grant Aid Scheme and the necessary measures to be taken by the GOP as explained by the Team as per the Minutes of Discussions signed by both sides on 5th August 2010 (hereinafter referred to as "the Previous M/D").

3. Schedule of the Survey

JICA will complete the final report in accordance with the confirmed items and send it to the GOP by April 2011.

4. Tentative Schedule of the Project

The Philippines side understood the tentative time schedule of implementation stage of the Project as shown in **Annex-2**. The Philippines side also understood the time schedule is subject to change, depending on the date of Exchange of Notes (hereinafter referred to as "E/N") and Grant Agreement (hereinafter referred to as "G/A").

5. Confidentiality of the Project

5.1 Detailed Specifications

Both sides confirmed all the information related to the Project including detailed specifications of the facilities, equipment and other technical information shall not be released to any other party(ies) before the signing of all contract(s) for the Project.

5.2 Project Cost Estimate

The Team explained to the Philippines side the estimated project cost to be borne by the GOJ as attached in **Annex-3**.

The Philippines side agreed to allocate necessary budget in order to bear requested undertakings as shown in **Annex-3**. The Team also explained that these cost estimations are subject to change since they are provisional and need to be further examined.

Both sides agreed that the Project Cost Estimate should never be duplicated in any form nor disclosed to any other party(ies) before the signing of all the Contract(s) for the Project. This confidentiality of the estimated project cost is necessary to ensure fairness of the tender procedure.

6. Undertakings of the Philippines side

The Team requested and the GOP agreed on the following undertakings in addition to the major undertakings described in the Previous M/D.

6.1 Tax Exemption

The Philippines side agreed to ensure exemptions of Value Added Tax (VAT), customs duty, all other taxes and fiscal levies in the Philippines which are to be arisen from the Project activities by allocation of the 70% of the Local Disaster Risk Reduction and Management fund.

6.2 Acquisition of building permits

The Provincial Engineering Office has agreed to undertake the application for the building permits including application fees to the respective Local Government Units (hereinafter referred to as "LGUs").

6.3 Demolishing Work and Provision of Disposal Area of Demolished Construction Debris

Both sides confirmed that the demolishing work of the existing school construction and disposal of construction debris shall be undertaken by the Philippines side before commencement of the construction work by the Japanese side. In this relation, the Albay Division Office of the Department of Education (hereinafter referred to as "DepED") should secure permits from the National Historical Commission on the demolition of the existing foundation of the Gabaldon building at Polangui North Central School. Other permits for demolition of existing dilapidated classroom building at Oas South Central School and Gogon Central School should be secured by respective DepED Division Offices.

The Philippines side agreed to provide the disposal area of demolished construction debris of the existing construction at their own expense and take necessary measures according to the related law before commencement of the construction work by the Japanese side.

6.4 Operation and Maintenance of incidental facilities

For the incidental facilities which are not used for educational purposes during normal times, such as machine room with generator, shower rooms, kitchen, and laundry, etc., the respective LGUs shall be responsible for the operation and maintenance of these facilities, including budget allocation under the supervision of the Governor through Albay Public Safety and Emergency Management Office (APSEMO).

6.5 Allocation of additional school personnel and necessary budget

The DepED Albay Division Office, DepED Legazpi City Division Office and the municipality of Libon agreed to undertake the followings, regarding the cost estimation as shown in **Annex-4**:

- 1) To allocate relevant number of additional school personnel in accordance with the increased number of classrooms provided by the Project.
- 2) To be responsible for the maintenance of school facilities such as classrooms, offices and toilets, including budget allocation.

7. Other Relevant Issues

7.1 Repair work of Polangui North Central School

The Philippines side explained and the Japanese side confirmed that the repair work of the 29 existing classrooms in Polangui North Central School was temporary measure and not a construction of new classrooms that will meet the criteria of Provincial Disaster Coordinating Council (PDCC) against typhoon and earthquake proof.

Both sides agreed the proposed 11 classrooms will be constructed by the Project.

7.2 Confirmation on the safety of the Project sites

Upon the request by the Team, APSEMO requested and received an official statement from Philippine Institute of Volcanology and Seismology (hereinafter referred to as "PHIVOLCS") Central Office and submitted it to the Team regarding the safety of the Project sites at Gogon Central School and Sto. Domingo Central School which are categorized in low susceptibility area against lahar.

According to the official statement, the sites are adequate as evacuation shelters for moderately explosive eruption with relevant risk prevention measures. In this relation, Albay Province agreed to regularly implement dredging in Basud and Yawa Rivers which will help maintain the river condition in high discharge capacity to prevent or mitigate the possible lahar that may affect the sites.

In addition to the above mentioned measures, APSEMO shall take special measures to

guide evacuees to safer sites other than the above-mentioned sites based on the warnings by PHIVOLCS, in case of highly explosive eruptions.

7.3 Joint-operation

The new facilities at Gogon Central School and Manito Central School have been planned and designed in the Preparatory Survey, based on the joint operation with the adjoining educational institutions, namely Gogon National High School and Manito Community College respectively. The agreement on the joint operation plan shall be concluded amongst the concerned schools, DepED Division Offices, and LGUs.

(End)

Annex -1 : Tentative list of Components of the Project

Annex -2 : Tentative Implementation Schedule

Annex -3 : Project Cost Estimation

Annex -4 : Cost estimation on the increase of school personnel cost and maintenance cost

Tentative List of Components of the Project

School	Components to be Covered by the Japan's Grant Aid							Components to be Covered by the Philippine Side	
	Class-room	Office	Toilet	Shower unit	Kitcen	Laundry space	Machine room with generator	Fire extinguisher	Furniture
LICOM	20	1	46	20	2	2	1	25	Upon necessity
Polangui North C/S	11	1	28	12	1	1	1	14	
Oas South C/S	11	1	28	12	1	1	1	14	
Manito C /S	19	1	46	20	2	2	1	24	
Sto. Domingo C/S	9	1	23	10	1	1	1	12	
Gogon C/S	9	1	23	10	1	1	1	12	
Total	79	6	194	84	8	8	6	101	

Tentative Implementation Schedule

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
Agreements	E/N G/A	Consultant Agreement					Construction Contract																		
Detailed Design/Tender	Detailed Design Survey	Design Work in Japan			Explanation of Tender Documents																				
					Tender Work in Japan																				
Construction Work by Japanese Side							Preparation Work																		
								Earth Work																	
										Foundation and Skeleton Work															
													M&E, Interior, and Exterior Work												
																		External Work							
																		Inspection and Handover							
Works by the Philippine Side				Demolition, Site Leveling, Uprooting Trees and etc.										(VAT refund upon Contractor's request)										Electricity and Water Connection	

E/N : Exchange of Notes, G/A : Grant Agreement

This Page is closed due to the confidentiality.

Cost estimation on the increase of school personnel cost and maintenance cost

(1) Salaries

Due to the expansion of the facilities, needs for additional personal services arise in 3 sites. The increase of salaries for additional employment is demonstrated below.

Increase in salaries after the Project (PHP)

Site	Employment Type	Intake	Average annual salary	Additional cost (annual)	Covered by
LICOM	Teaching staff	23	61,000	1,403,000	Libon
	Non-teaching staff	4	46,000	184,000	Libon
Manito C/S	Teacher	2	247,000	494,000	DepED
Sto. Domingo C/S	Teacher	6	247,000	1,482,000	DepED
Gogon C/S	Teacher	3	247,000	741,000	DepED
TOTAL		38		4,304,000	

(2) Water and electricity costs

The increases in water and electricity costs for the Project due to the expansion of the facilities are indicated below.

Water and electricity cost for the new facility in normal time

Item	Monthly cost (PHP)	Annual cost (PHP)
Electricity bill	100,000	1,200,000
Water bill	42,000	504,000
TOTAL	142,000	1,704,000

(3) Maintenance cost

The facilities planed in the Project are presumed to require no maintenance for the first several years after the handover. However, repainting costs will be required after several years. The assumed frequency and costs are shown below.

Maintenance cost of the Project sites

Item		Frequency	Annual cost (PHP)
Repainting	Interior/exterior wall, ceiling	Once every 5 years	1,500,000
	Fittings	Once every 5 years	40,000
Removal of sludge in the septic tank		Once every 3 years	10,000
TOTAL			1,550,000

V. 参考資料

No.	名称	形態	オリジナル・コピー	発行機関	発行年
1	National Building Code of the Philippines (REPUBLIC ACT NO. 6541)	データ	コピー	国家条例	1972
2	Sanitation Code of the Philippines (大統領令)	データ	コピー	フィリピン国大統領府	1975
3	Standard Design and Specifications	データ	コピー	DepED	
4	Manual on School Improvement Planning	図書	コピー	DepED	2008
5	Annual Plan	データ	コピー	DepEDアルバイ州 事務所	2011
6	Annual Accomplishment Report	データ	コピー	DepEDアルバイ州 事務所	2009
7	Division Annual Plan	図書	コピー	DepEDレガスピ市 事務所	2010
8	Division Accomplishment Report	図書	オリジナル	DepEDレガスピ市 事務所	2009
9	2009 Philippine Statistical Yearbook	図書	オリジナル	National Statistical Coordination Board	2009
10	Economic Indicators	図書	オリジナル	National Statistical Coordination Board	2010
11	Disaster Risk Reduction Resource Manual	図書	オリジナル	DepED	2008
12	Risk Map (オアス町)	図書	コピー	APSEMO	1990
13	Risk Map (サントドミンゴ町)	図書	コピー	APSEMO	1990
14	Risk Map (ポランギ町)	図書	コピー	APSEMO	1990
15	Risk Map (マニラ町)	図書	コピー	APSEMO	1990
16	Risk Map (レガスピ市)	図書	コピー	APSEMO	1990
17	Risk Map (リボン町)	図書	コピー	APSEMO	1990
18	Sphere Project Handbook 2004	データ	コピー	国際連合	2004
19	Building Resilient Communities-Good Practices in Disaster Risk Management in the Philippines	図書	オリジナル	Oxfam Great Britain	2010

VI. その他の資料・情報

(1) VAT の還付に関するレター



Republic of the Philippines
PROVINCE OF ALBAY
Legazpi City



Office of the Governor

JOEY SARTE SALCEDA
Governor

October 25, 2010

Mr. KAZUHIKO UENO
Senior Representative
JICA Philippines
40th Floor, Yuchengco Tower,
RCBC Plaza Avenue
Ayala Ave, Makati City

Dear Mr. Ueno:

This pertains to your message, dated October 19, 2010, informing us of the estimated amount of the VAT to be incurred by the Provincial Government and other inquiries regarding the project, "Evacuation Shelter Construction in Disaster Vulnerable Areas in the Province of Albay."

Please be informed that aside from the two options mentioned in our letter to Mr. Norio Matsuda, Chief Representative, JICA Philippines, dated August 13, 2010, copy of which is attached, the Philippine Government, through the newly enacted Republic Act 10121, which is "an act strengthening the Philippine Disaster Risk Reduction and Management System, Providing for the National Disaster Risk Reduction and Management Framework and Institutionalizing the National Disaster Risk Reduction Plan and Appropriating Funds Thereof," or otherwise known as the "Philippine Disaster Risk Reduction and Management Act of 2010," allows the utilization of the Seventy (70) percent of the Five (5) percent local calamity fund for pre-disaster use can be another source of fund to cover the VAT of our proposed project with JICA.

Also, upon coordination with the Department of Education, Albay Division, we were informed that the repair of the 29 existing classrooms in Polangui North Central School is more of a minor one and will not entail construction of new classrooms that will meet PDCC criteria for typhoon and earthquake proof to make it as safe evacuation centers. As experienced during Super Typhoon Reming in 2006, almost 80 percent of public school buildings were destroyed since the design of existing public school classrooms are not typhoon and earthquake proof. May we kindly request for JICA to consider the school as our project site as it is the only public school site in Polangui with space that will accommodate the construction of the facility.

Also, the Municipal Mayor of Libon, Hon. Agnes Dycoco, would like us to convey to you that the Municipal Government of Libon had already relocated the informal settlers in the compound of Libon Community College since August. They will be issuing certification relative to this.

With regards to the Agreement Letter from the DepEd Albay, DepEd Legazpi and the Municipality of Libon, for the budget allocation for the operation and maintenance of the project, they have an existing allocation for these expenses and if their budget will not warrant we are very willing to shoulder the expenses to be charged under RA 10121 which is referred to above.

We hope the foregoing will clarify matters raised in your message.

Thank you.

Very truly yours,

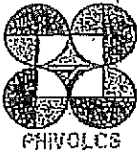
JOEY SARTE SALCEDA

Encl.: 2/s

☎ (052) 481-2555 ☎ (052) 480-3444 ☒ provinces@albay.gov.ph / albaygovoffice@yahoo.com ~U <http://www.albay.gov.ph>

MANILA OFFICE (ALBAY EMBASSY)

904-S Tower B, Skyland Plaza, Sen. Gil Puyat Avenue, Makati City 1200 Telefax No. (02) 887-7672 Tel. No. (02) 381-3161



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF SCIENCE AND TECHNOLOGY
PHILIPPINE INSTITUTE OF VOLCANOLOGY AND SEISMOLOGY
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Fax: (+632) 929-8366; 927-1095



LC-Feb-10-005

26 February 2010

CERTIFICATION

To Whom It May Concern:

This is to certify that the schools listed below and located in the Municipalities of Oas, Legazpi, Polangui, Manito, Sto. Domingo and Libon in Albay Province, as shown in the vicinity map provided, the GPS coordinates supplied by the REDAS Team and the approximated centers of urban areas, are outside the 6-km Permanent Danger Zone (PDZ) for Mayon Volcano and are not within the hazard area for pyroclastic flow and lava flow. However, for lahar hazards, Gogon Elementary School and the approximated location of Sto. Domingo Central School are within areas with low susceptibility to lahars. The four other schools namely Oas Central School, and the approximated locations of Polangui, Manito, and Libon Central Schools are safe from lahars.

List of volcanic hazards assessment for the schools are listed below:

Name of School	Lahar	Lava	Pyroclastic Flow
1. Oas Central School (with GPS location from REDAS Team)	Safe	Safe	Safe
2. Gogon Elementary School (with GPS location from REDAS Team)	Low Susceptibility	Safe	Safe
3. Polangui Central School (approximate location / located in the center of urban area)	Safe	Safe	Safe
4. Manito Central School (approximate location / located in the center of urban area)	Safe	Safe	Safe
5. Sto. Domingo Central School (approximate location / located in the center of urban area)	Low Susceptibility	Safe	Safe
6. Libon Central School (approximate location / located in the center of urban area)	Safe	Safe	Safe

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Furthermore, all the above mentioned schools are not transected by the Lake Bato Lineament (LBL). The LBL is the nearest known active fault in the area, based on the map available at PHIVOLCS. The buffer zone against rupturing recommended by this office is at least 5 meters on both sides of the mapped fault trace or from the edge of the deformation zone. In addition, we would like to emphasize that more detailed geologic assessment needs to be done to validate the extent of the potential earthquake hazards and for proper design and construction of major infrastructures.

This certification is issued upon the request of Japan International Cooperation Agency (JICA) for whatever purpose it may serve, and supersedes any previous certification issued by this office regarding the area.



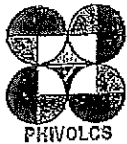
RENATO U. SOLIDUM, JR.
Director

Feb 23 11 03:20p

GGRDD

+6329207058

p.1



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF SCIENCE AND TECHNOLOGY
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Fax: 929-6961; 928-3225



71-0041

OGL-Feb-11-017

22 February 2011

The Hon. JOEY SARTE SALCEDA
Governor
The Province of Albay

Dear Gov. Salceda,

Thank you for your letter to us today requesting for a Volcanic Hazards Certification of the Gogon Elementary School and Sto. Domingo Elementary School, as needed by JICA for its project with your kind Office.

Based on the current PHIVOLCS Medium-term Volcanic Hazards Maps, which were devised for small to moderate-sized eruptions, the said schools are both safe from lava and pyroclastic flows and surges but are in the low susceptibility zones for lahars. Low susceptibility to lahars means that typical lahars generated by rains after a moderately explosive eruption (Volcano Explosivity Index, or VEI ≤ 3 , e.g. in 1984, 2000-01) will most likely not affect the area, but those generated by extreme rainfall events (e.g. 2006 Typhoon *Reming*) most likely will, as was a small part of Brgy. Gogon along Yawa River during *Reming*.

In terms of long-term hazards from highly explosive (VEI 4) eruptions such as the 1814 and 1897 eruptions, historical precedents show that Sto. Domingo Elementary School may be at risk to pyroclastic flows and surges. Accounts of the 1987 eruption vividly recount the repeated passage of pyroclastic flows through the town of Sto. Domingo all the way to the sea, scouring a gorge in the crater rim that directed the greater part of Mayon's volcanic flows to this town until 1947. Lahars ensuing from VEI 4 eruptions, and also, those from the 100-year flood rainfall, will most likely impact Sto. Domingo proper as well as Brgy. Gogon, both being in river plains, and put the above schools at risk.

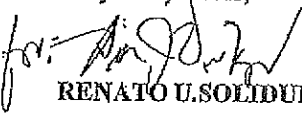
In view of the above, our Institute nonetheless will not discourage the construction of school facilities under the JICA or any other project in the above school sites, because the primary, long-term use of these schools is for public education. However, for the alternate purpose of

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utilizing the schools as evacuation centers during volcanic activity, there are two scenarios with differing risks to the school sites that need to be considered. In the first and prevailing scenario, which is Mayon behaving within the cycle of moderately-sized eruptions, or in the *medium-term*, the school sites are safe from lava and pyroclastic flows and surges but are at low susceptibilities to lahars. With the construction of adequately strong and elevated school facilities and other mitigating structures to counteract the impacts of lahars, the risks to lahars can be diminished and the schools can be used for evacuation purposes. Only in the second scenario, when a highly explosive eruption similar to the 1814 or 1897 eruption occurs, or in the *long-term*, will these school sites be at risk to pyroclastic flows and surges and lahars and should be disused for evacuation purposes. A VEI 4 eruption will definitely exhibit very clear and strong precursors that can be detected by the current state-of-the-art monitoring in Mayon, and therefore timely and appropriate warning can be issued by PHIVOLCS so that the Province's evacuation efforts can be guided accordingly.

The above assessments have already been communicated to IICA representatives and their consultants during a meeting held in PHIVOLCS last February 21, 2011. We hope that this certification further clarifies our position, and that we have addressed all concerns on the volcanic risk to and safety of the said school sites. Should you need any more clarifications, please do not hesitate to contact us for additional details.

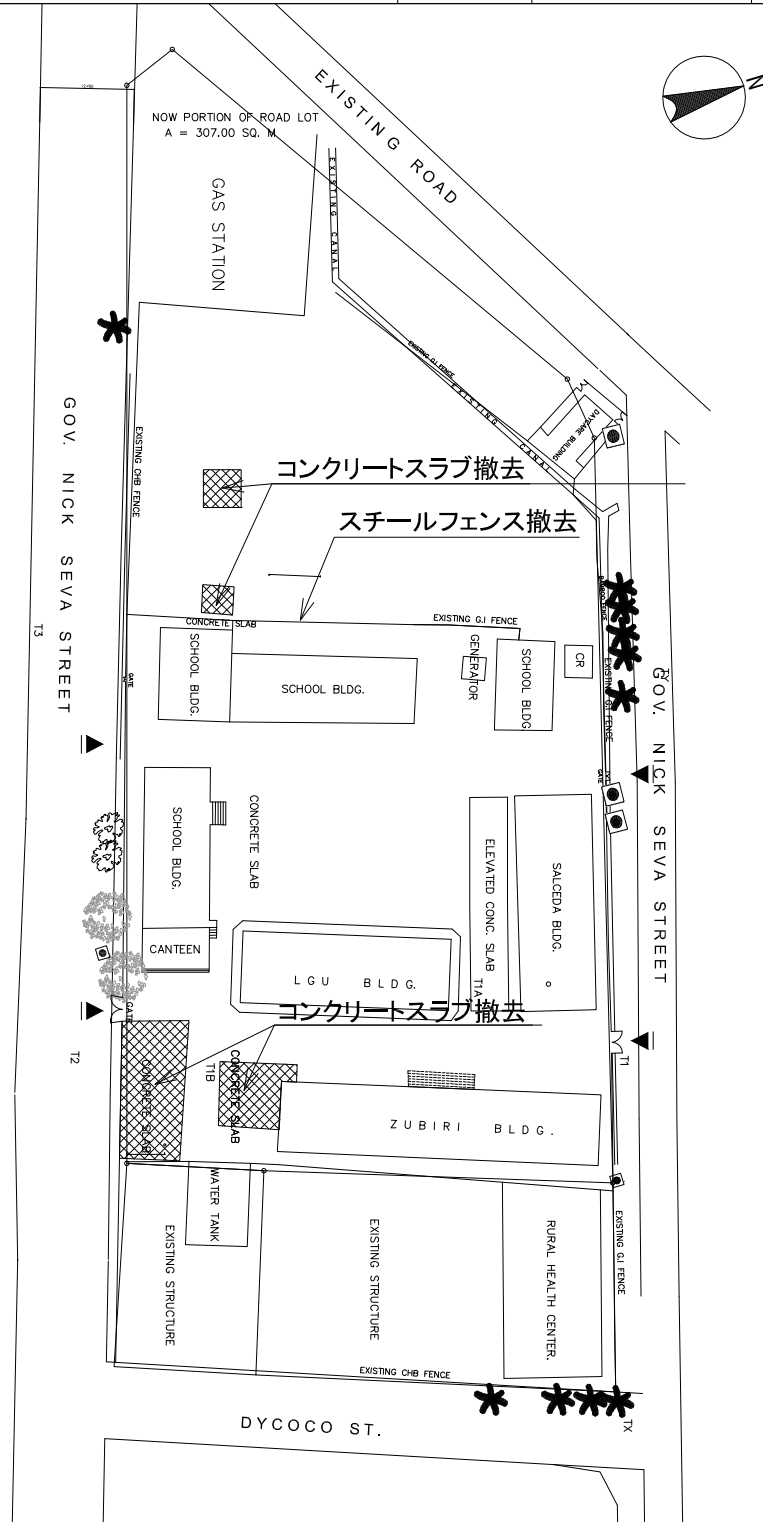
Very Truly Yours,


RENATO U. SOLIDUM, JR.
Director

資料 2

I . 概略設計図

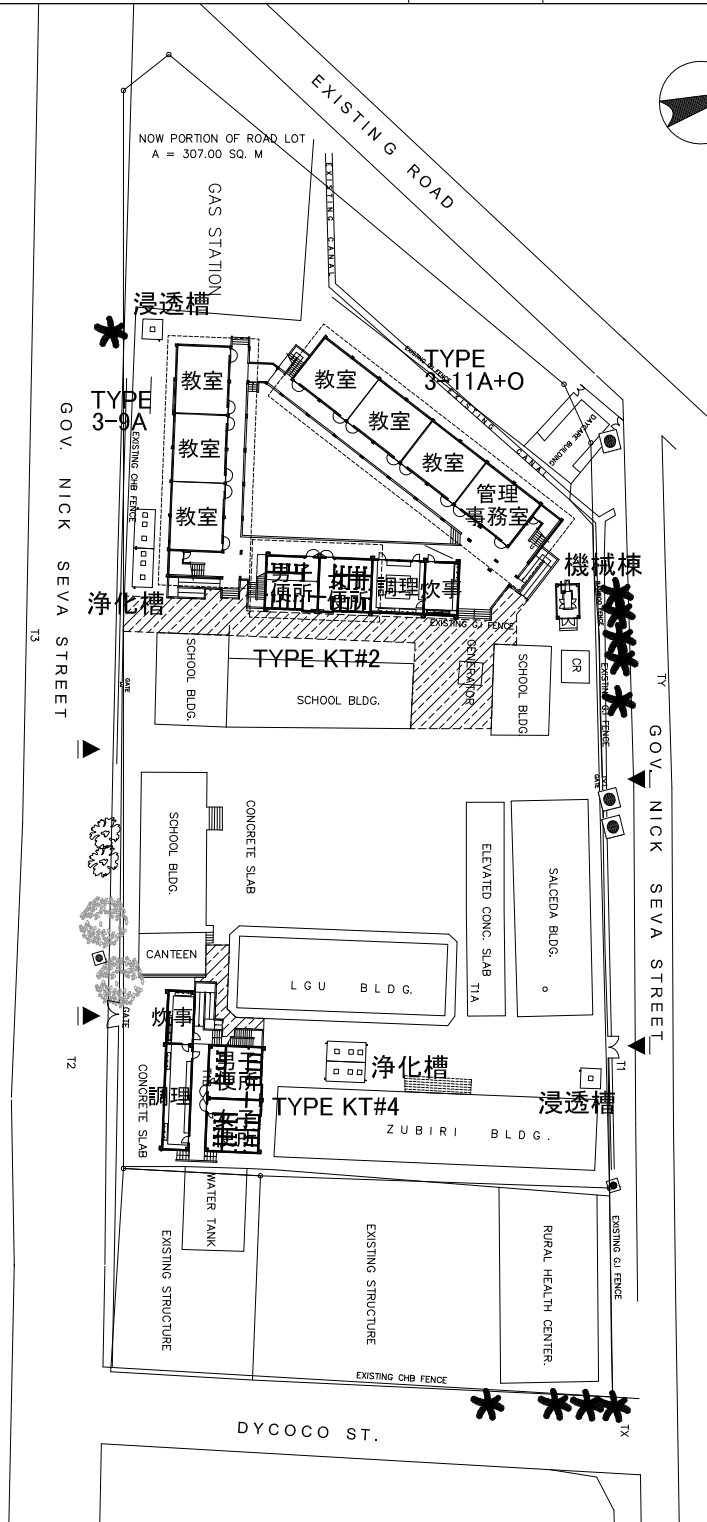
学校名	リボン・コミュニティカレッジ	市町名	リボン町	調査日	2010/8/16
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- LEGEND:
- 手動ポンプ
 - 高架水槽
 - 入口
 - 井戸
 - 電柱
 - 撤去工事(フィリピン国負担工事)

既存敷地図 SCALE 1:1000M

学校名	リボン・コミュニティカレッジ	市町名	リボン町	調査日	2010/8/16
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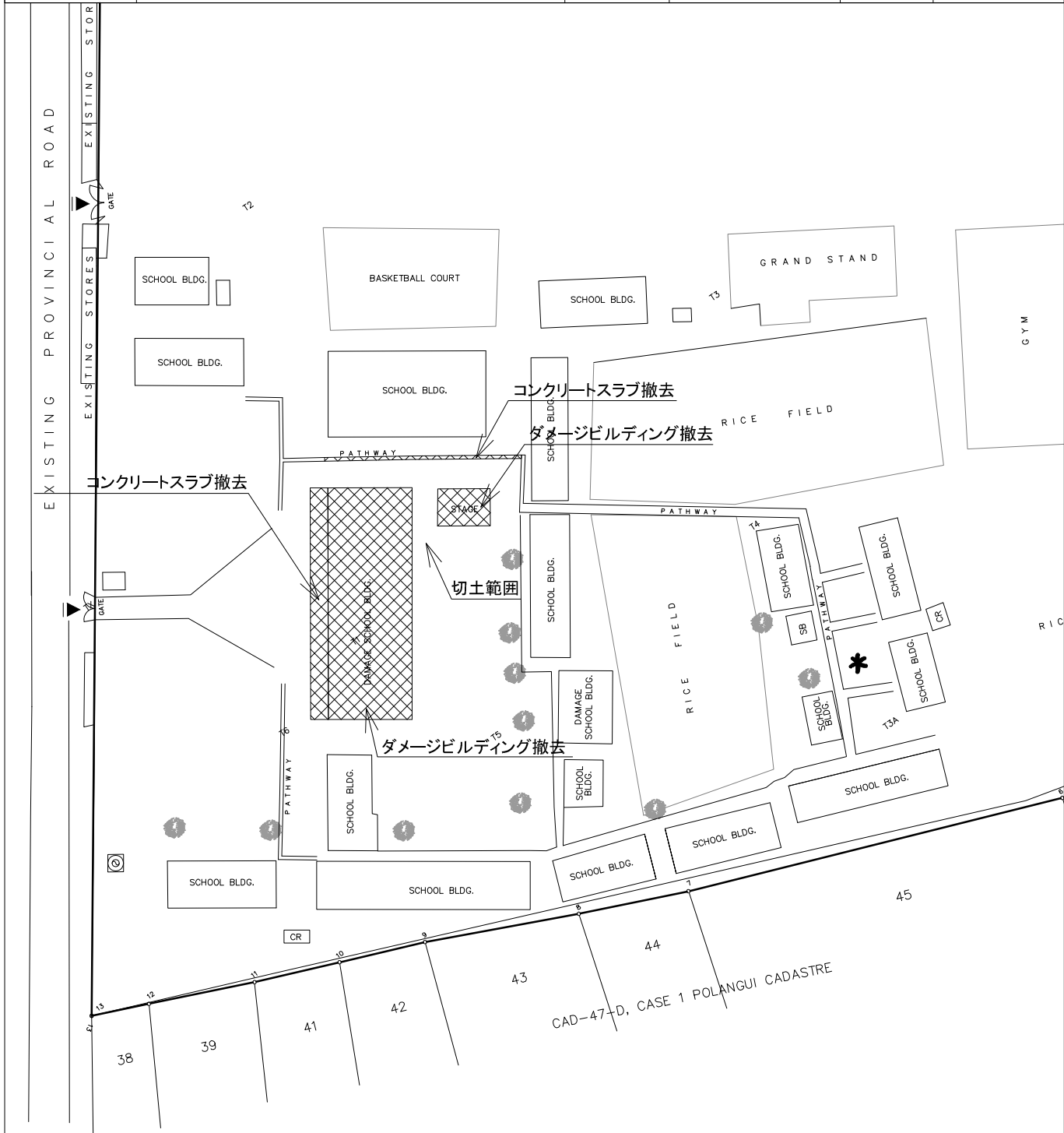
LEGEND:

- 手動ポンプ
- 高架水槽
- 入口
- 井戸
- 電柱
- コンクリート舗装(フィリピン国負担工事)








配置図

SCALE 1:1000M

学校名	ポランギ北中央小学校	市町名	ポランギ町	調査日	2010/8/22
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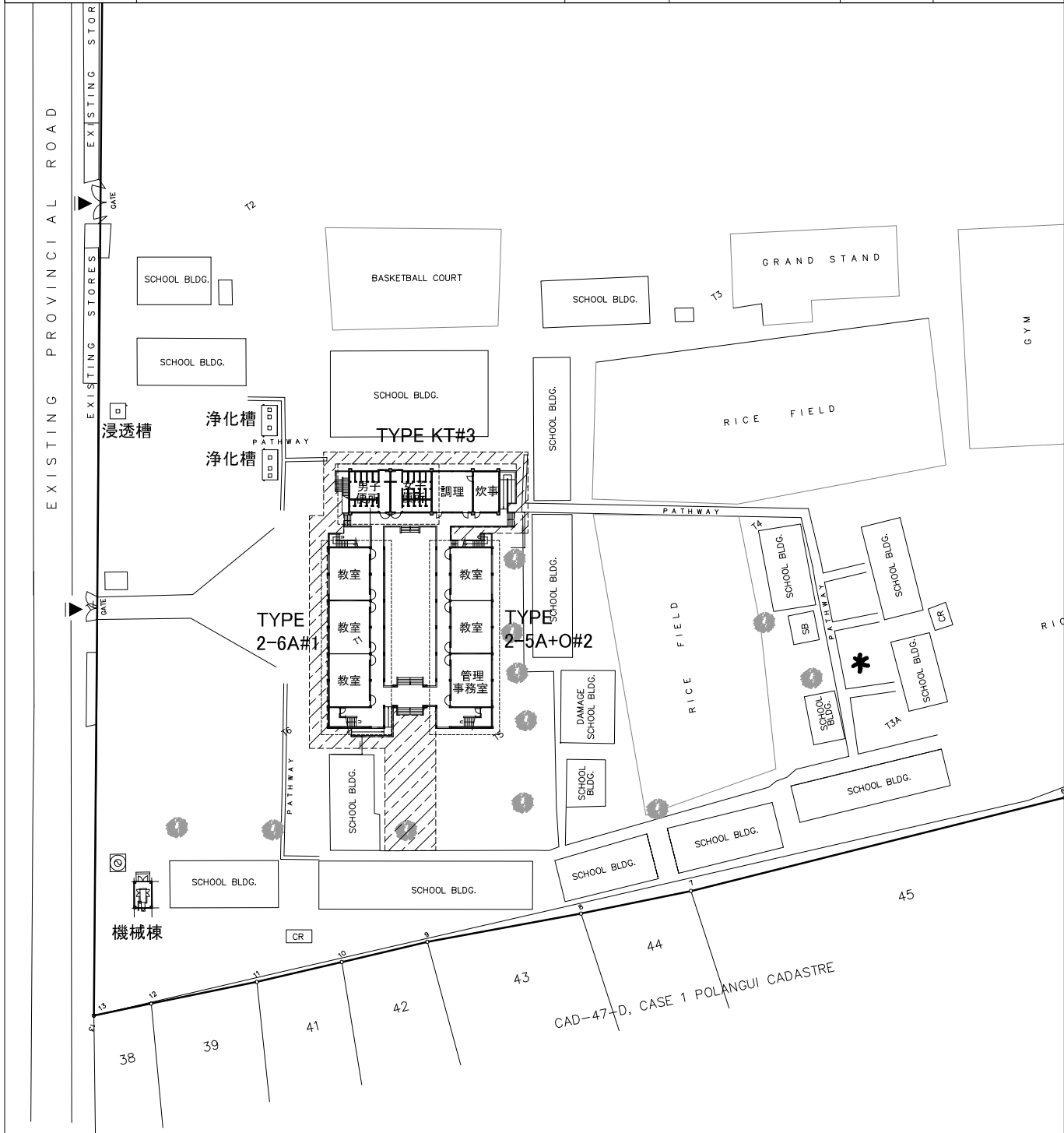
LEGEND:

-  手動ポンプ
-  高架水槽
-  入口
-  井戸
-  電柱
-  撤去工事(フィリピン国負担工事)
-  切土範囲(フィリピン国負担工事)

既存敷地図

SCALE 1:1000M

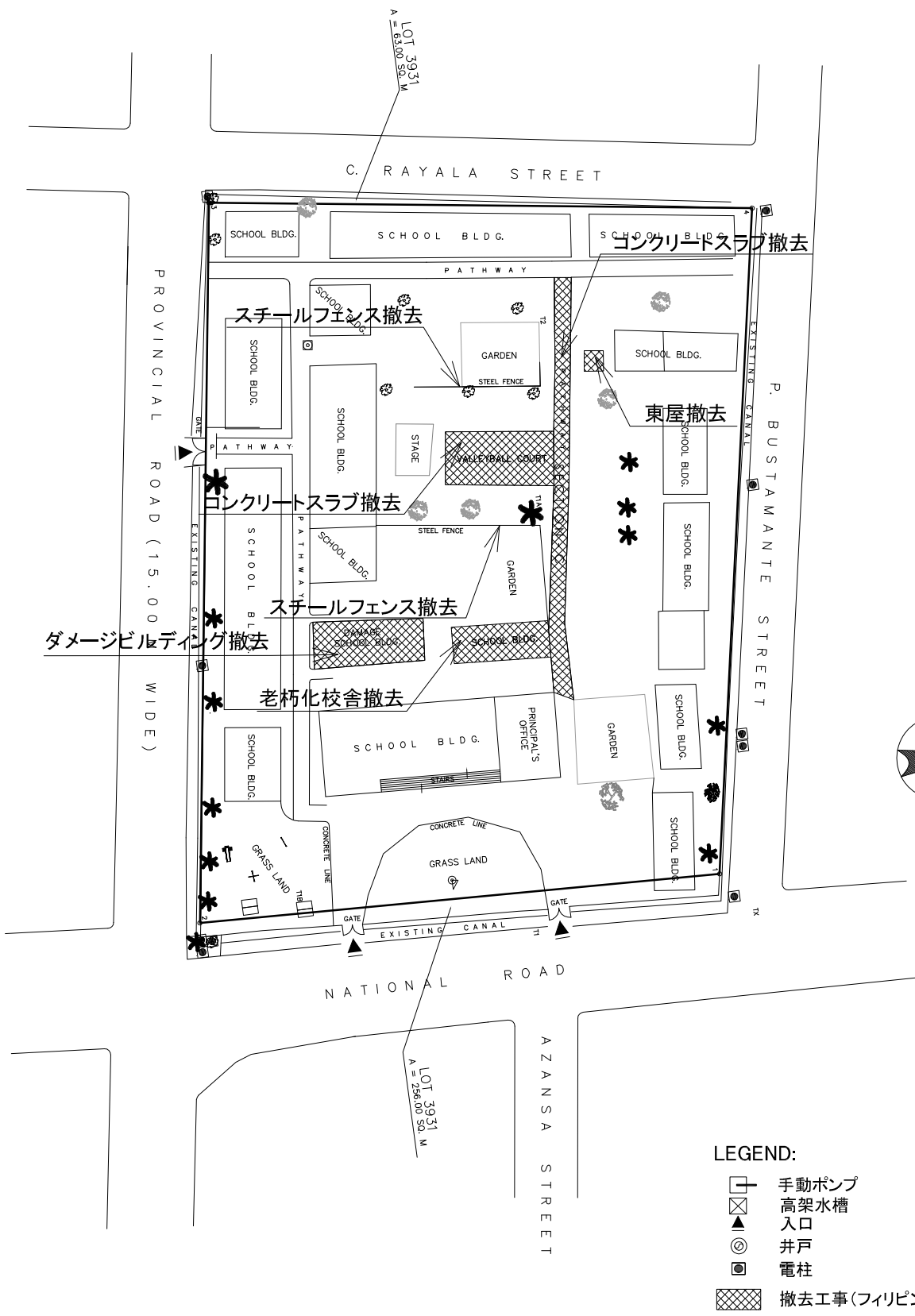
学校名	ポランギ北中央小学校	市町名	ポランギ町	調査日	2010/8/22
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- LEGEND:
- 手動ポンプ
 - 高架水槽
 - 入口
 - 井戸
 - 電柱
 - コンクリート舗装(フィリピン国負担工事)

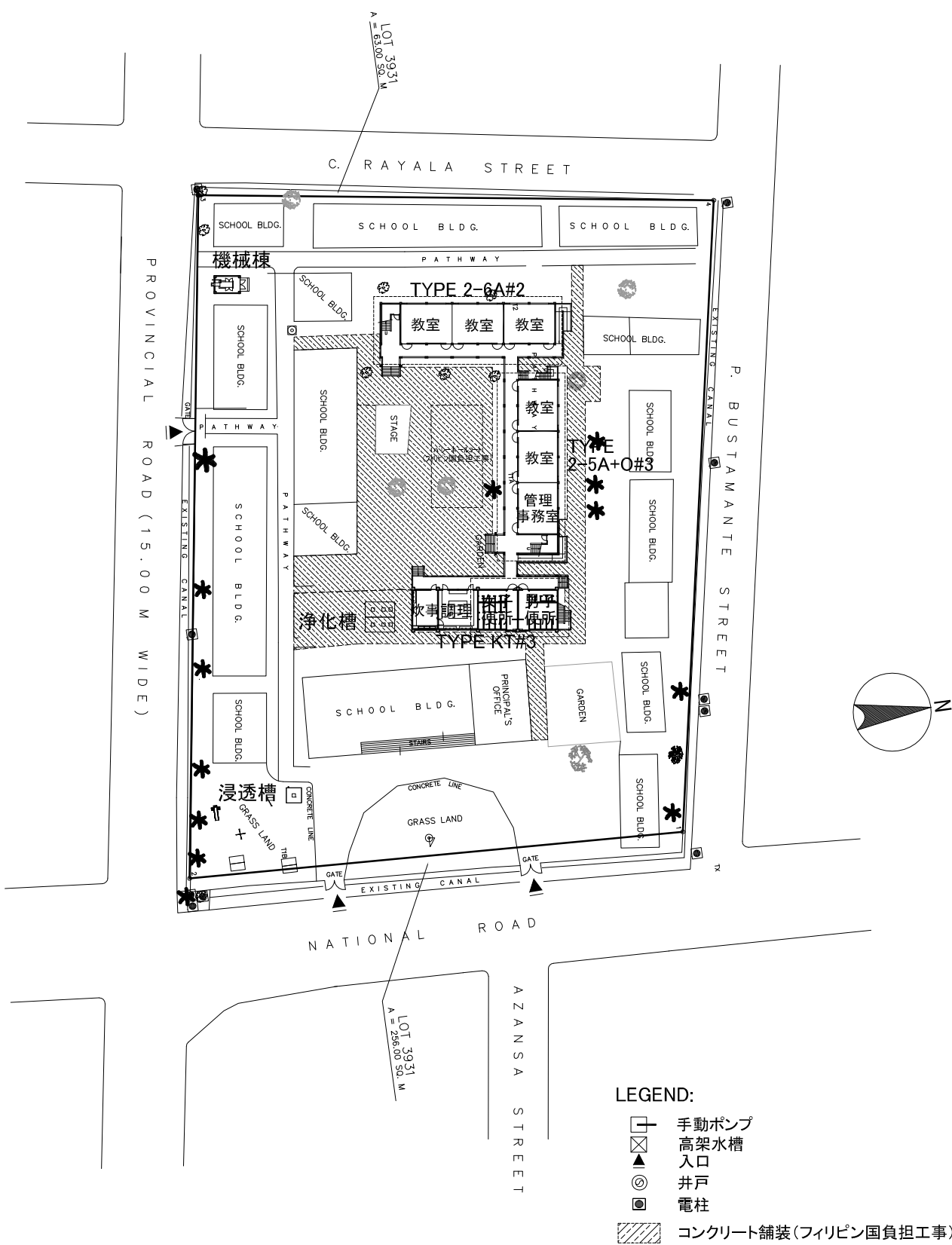
配置図 SCALE 1:1000M

学校名	オアス南中央小学校	市町名	オアス町	調査日	2010/8/22
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既存敷地図 SCALE 1:1300M

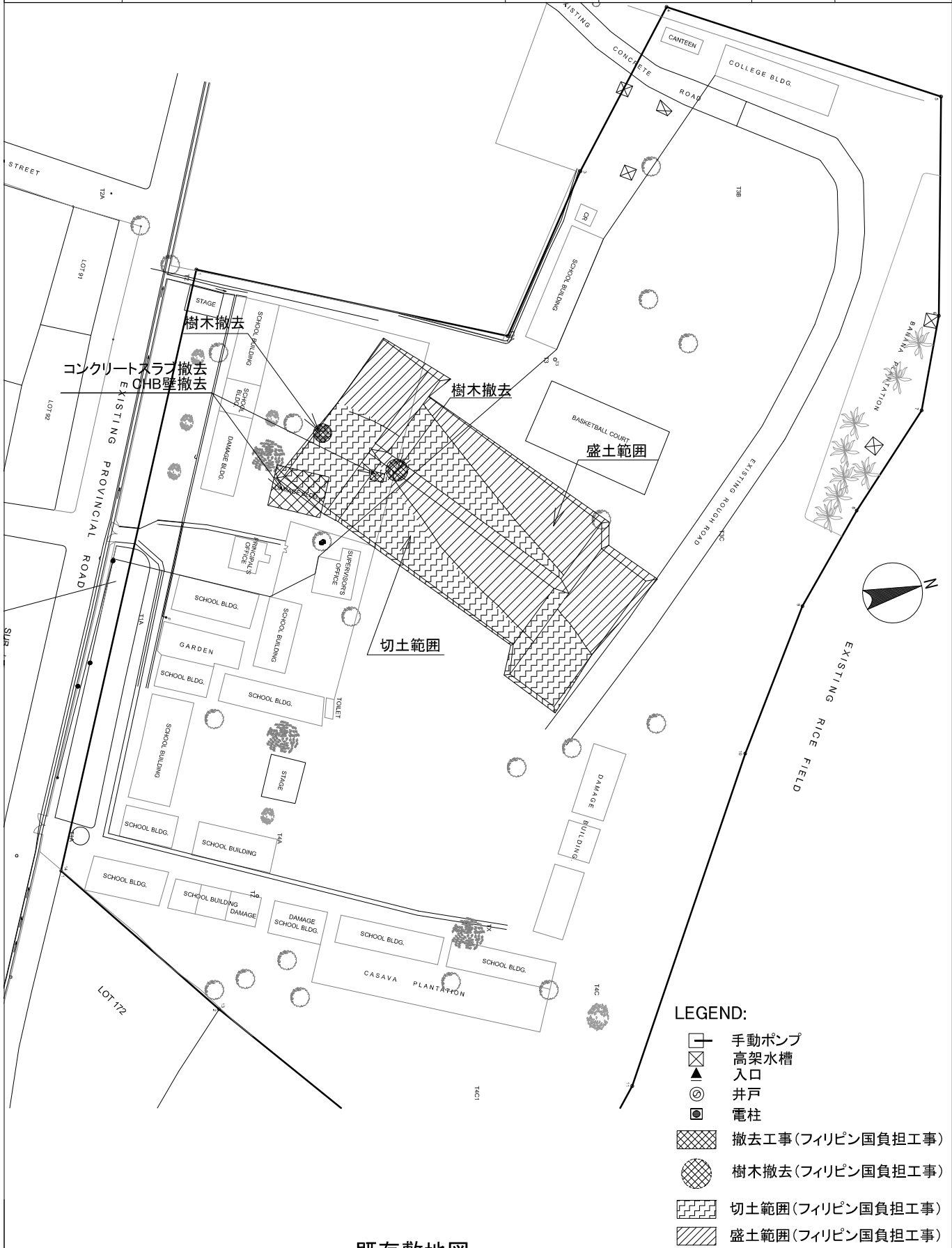
学校名	オアス南中央小学校	市町名	オアス町	調査日	2010/8/22
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- LEGEND:
- 手動ポンプ
 - 高架水槽
 - 入口
 - 井戸
 - 電柱
 - コンクリート舗装(フィリピン国負担工事)

配置図 SCALE 1:1300M

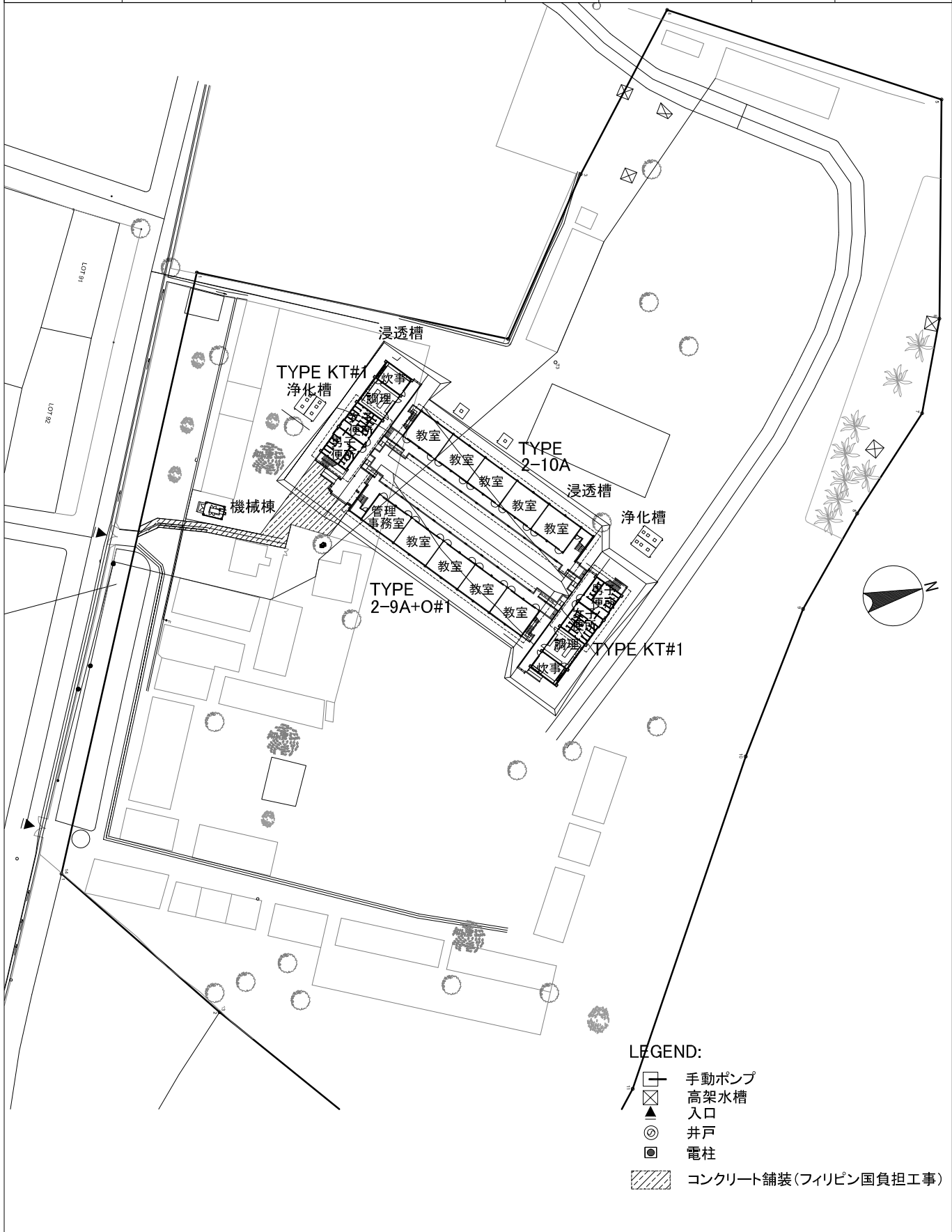
学校名	マニト中央小学校	市町名	マニト町	調査日	2010/8/18
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- LEGEND:**
- 手動ポンプ
 - 高架水槽
 - 入口
 - 井戸
 - 電柱
 - 撤去工事(フィリピン国負担工事)
 - 樹木撤去(フィリピン国負担工事)
 - 切土範囲(フィリピン国負担工事)
 - 盛土範囲(フィリピン国負担工事)

既存敷地図 SCALE 1:1200M

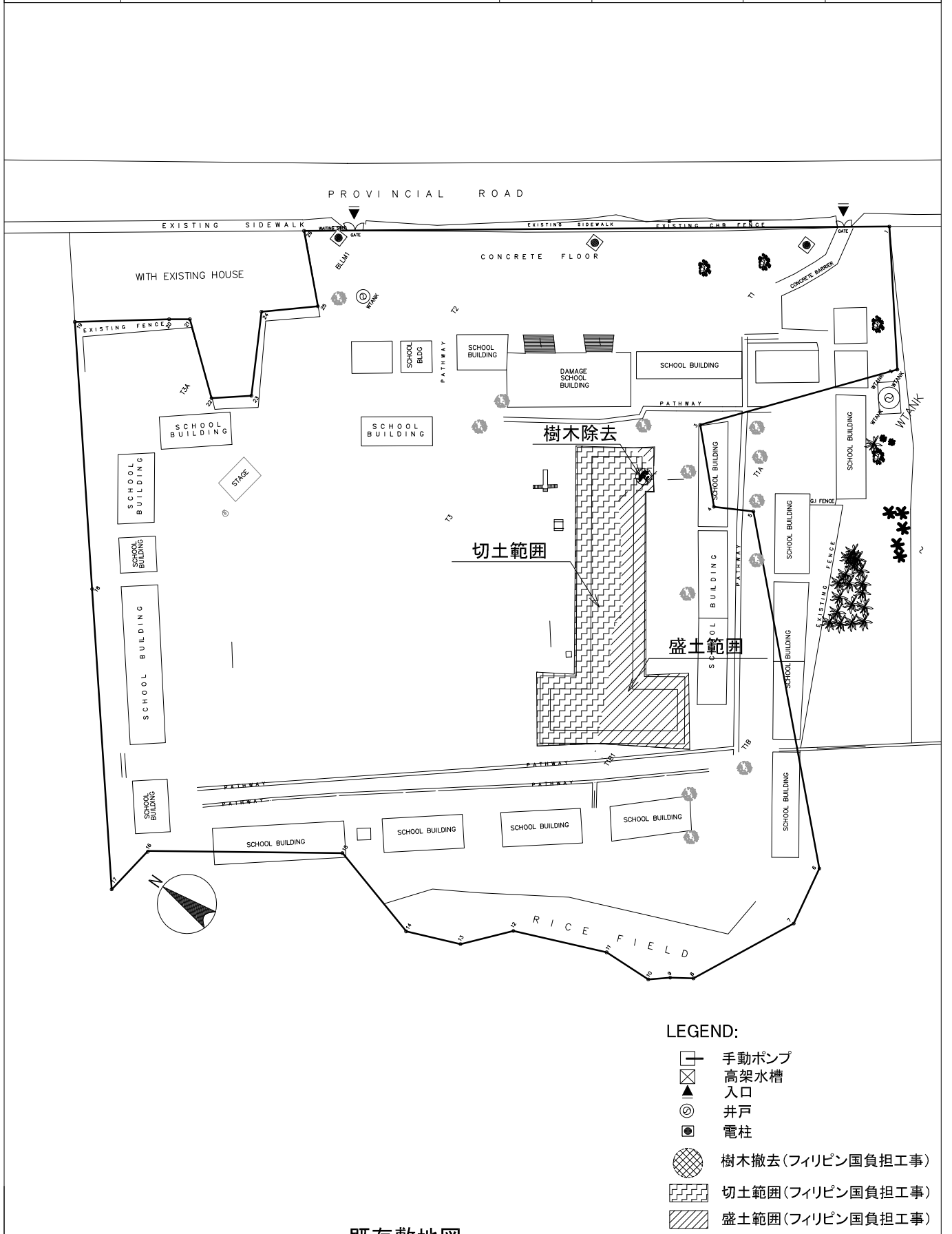
学校名	マニト中央小学校	市町名	マニト町	調査日	2010/8/18
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- LEGEND:
- 手動ポンプ
 - 高架水槽
 - 入口
 - 井戸
 - 電柱
 - コンクリート舗装(フィリピン国負担工事)

配置図 SCALE 1:1200M

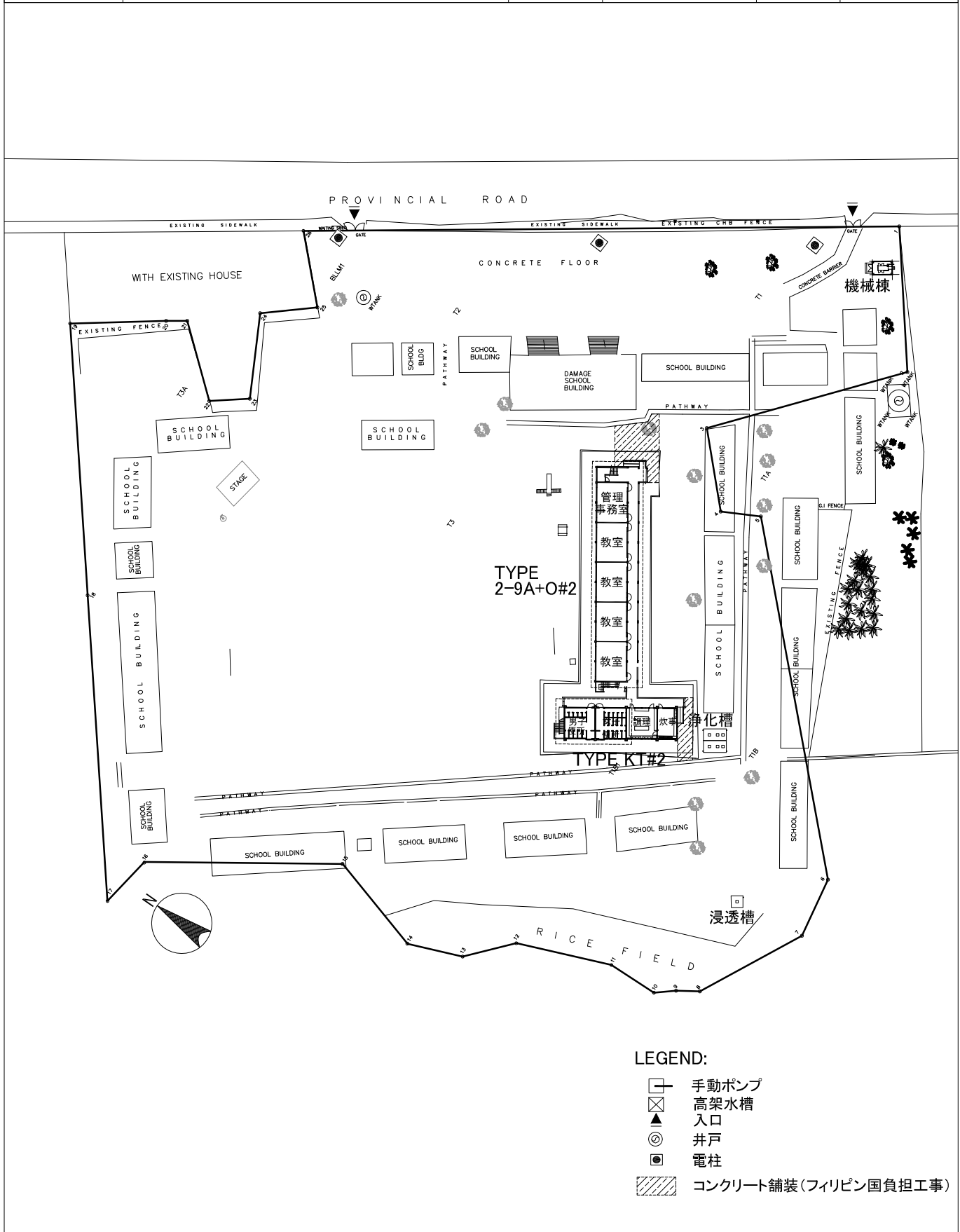
学校名	サントドミンゴ中央小学校	市町名	サントドミンゴ町	調査日	2010/8/15-17
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既存敷地図

SCALE 1:1200M

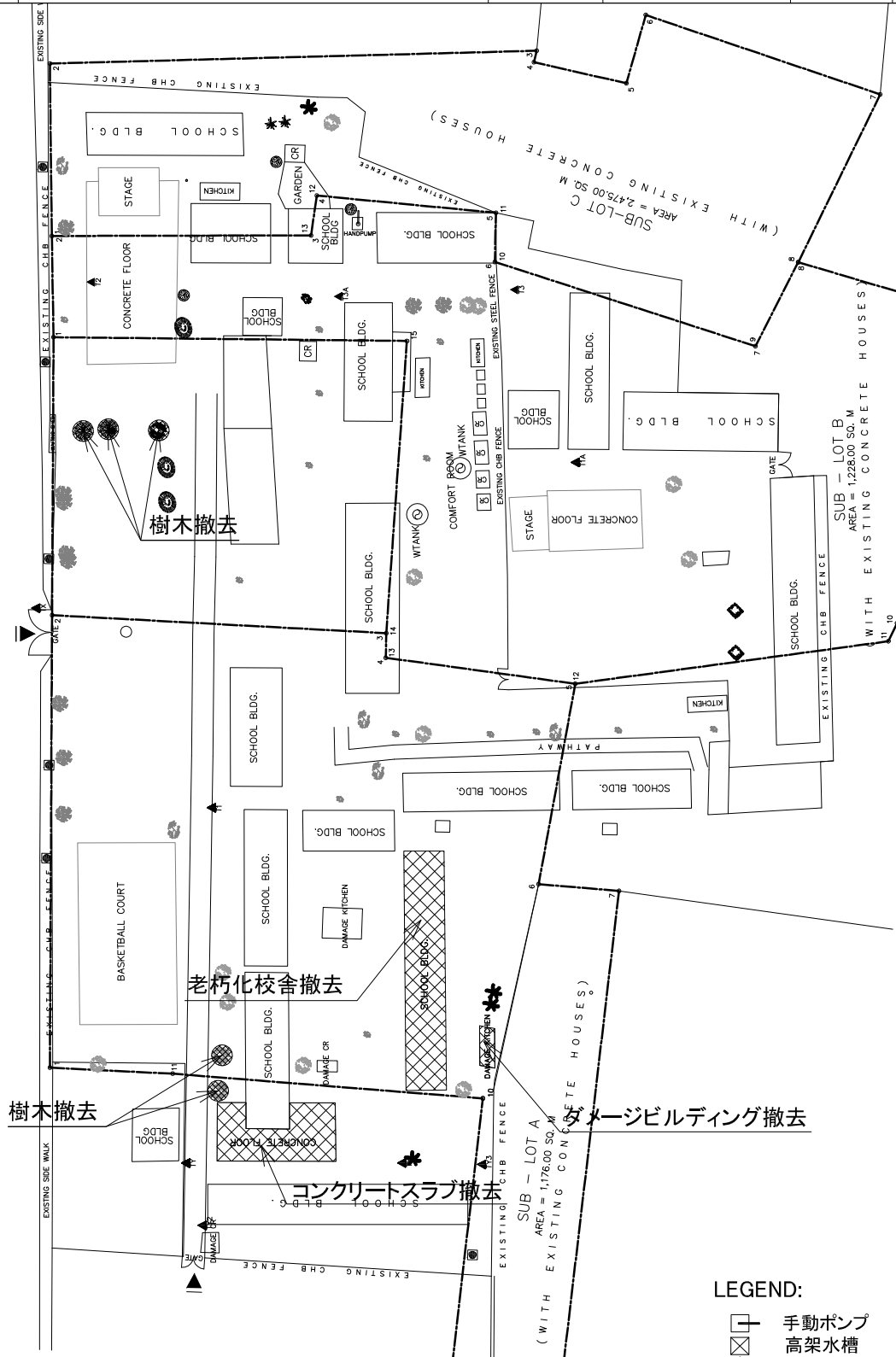
学校名	サントドミンゴ中央小学校	市町名	サントドミンゴ町	調査日	2010/8/15-17
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- LEGEND:
- 手動ポンプ
 - 高架水槽
 - 入口
 - 井戸
 - 電柱
 - コンクリート舗装 (フィリピン国負担工事)

配置図 SCALE 1:1200M

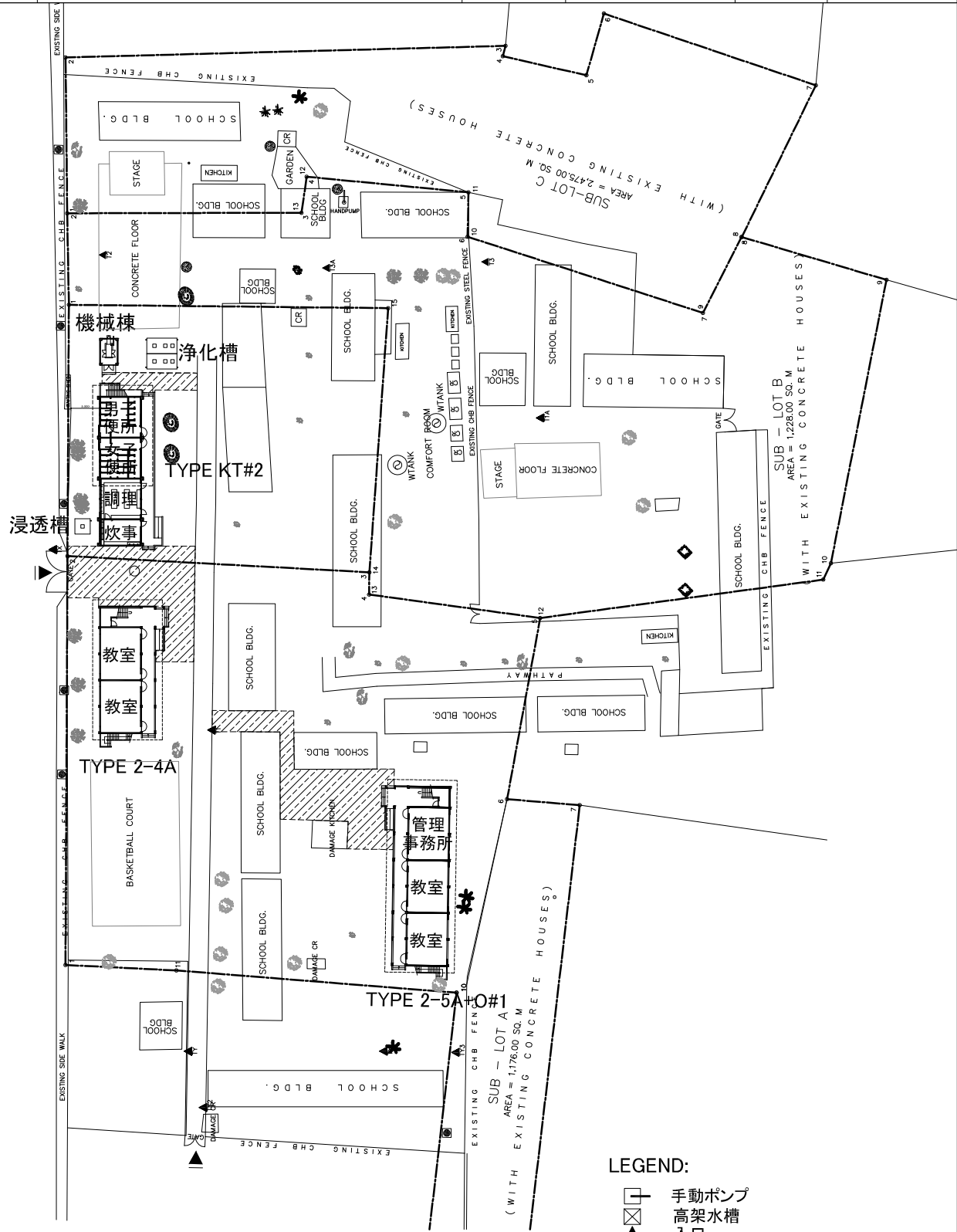
学校名	ゴゴン中央小学校	市町名	レガスピ市	調査日	2010/8/15-17
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- LEGEND:
- 手動ポンプ
 - 高架水槽
 - 入口
 - 井戸
 - 電柱
 - 撤去工事(フィリピン国負担工事)
 - 樹木撤去(フィリピン国負担工事)

既存敷地図 SCALE 1:1000M

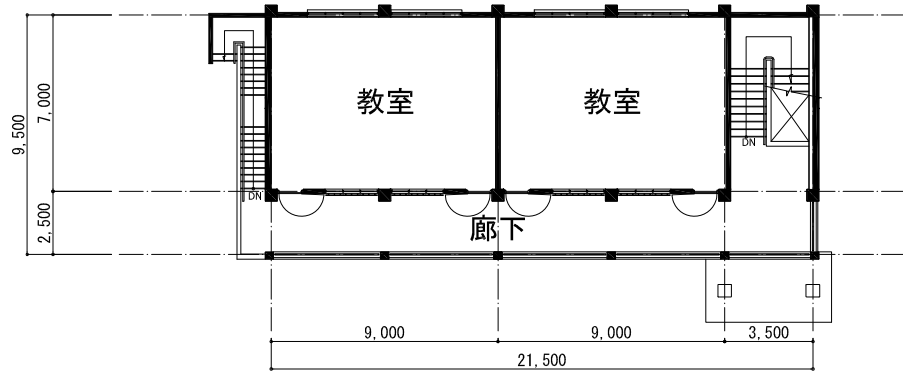
学校名	ゴゴン中央小学校	市町名	レガスピ市	調査日	2010/8/15-17
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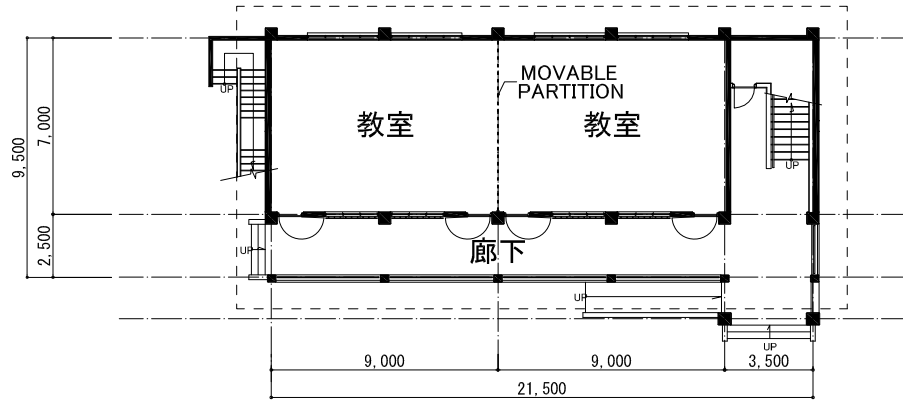
浸透槽
 教室
 教室
 管理事務所
 教室
 教室
 浄化槽
 TYPE KT#2

- LEGEND:
- 手動ポンプ
 - 高架水槽
 - 入口
 - 井戸
 - 電柱
 - コンクリート舗装(フィリピン国負担工事)

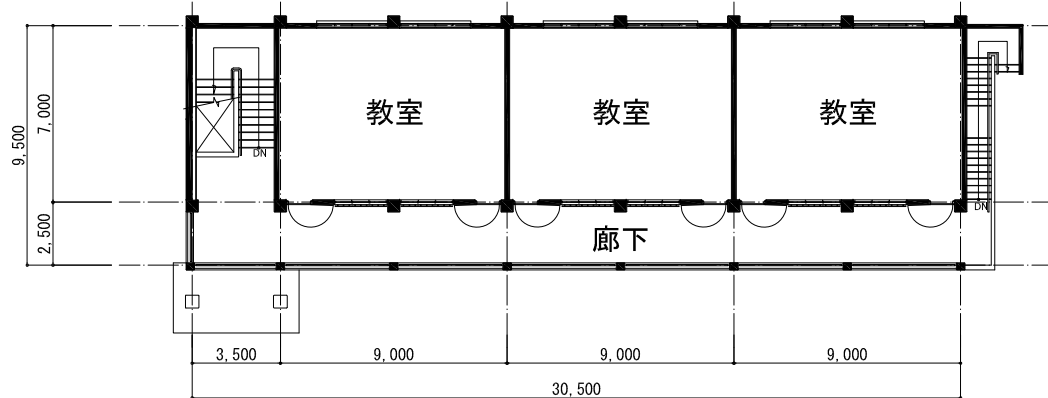
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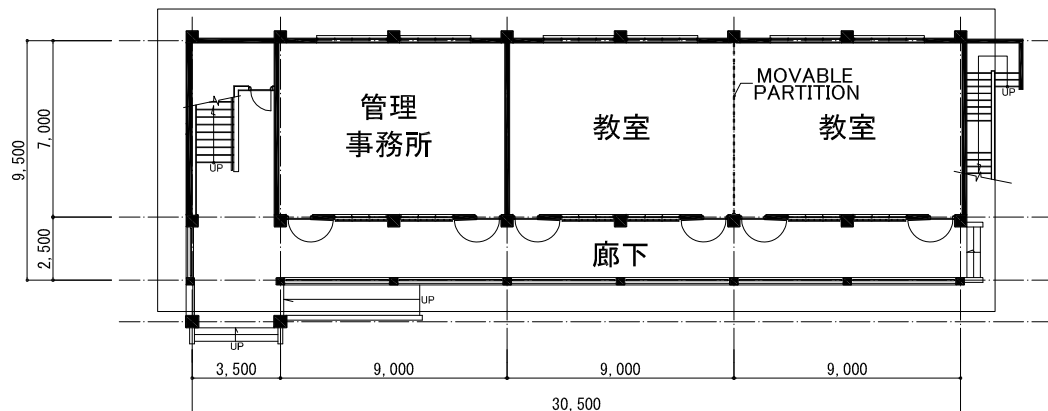
2階平面図(タイプ2-4A)



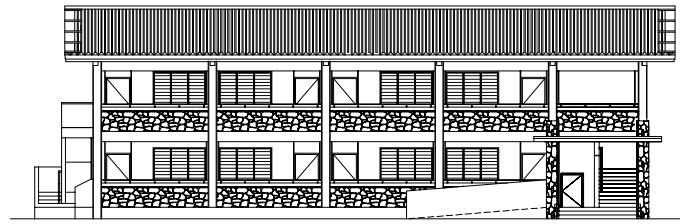
1階平面図(タイプ2-4A)



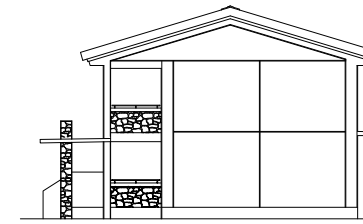
2階平面図(タイプ2-5A+O#1)



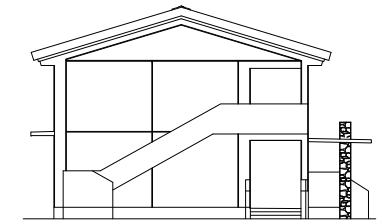
1階平面図(タイプ2-5A+O#1)



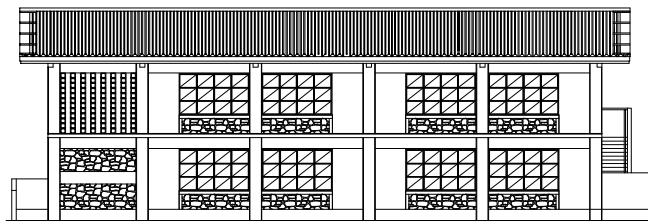
廊下側立面図(タイプ2-4A)



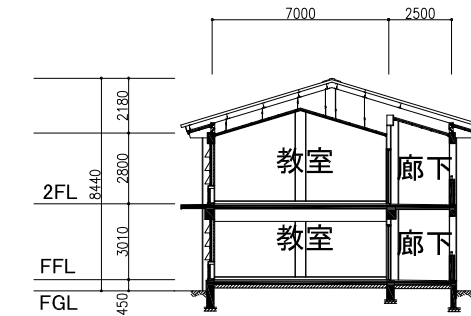
妻側立面図(タイプ2-4A)



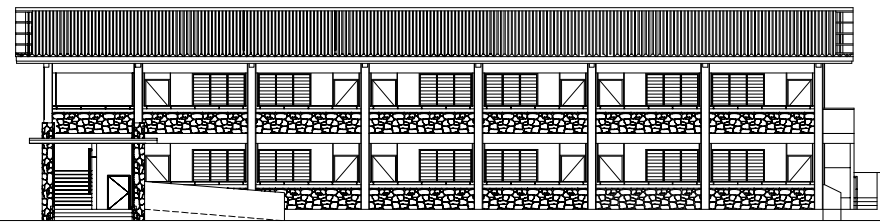
妻側立面図(タイプ2-4A)



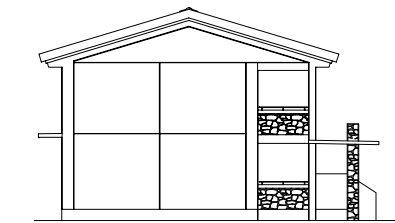
教室側立面図(タイプ2-4A)



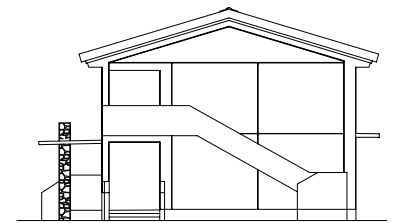
断面図(タイプ2-4A)



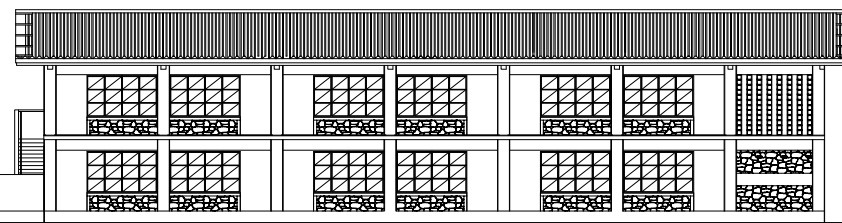
廊下側立面図(タイプ2-5A+O#1)



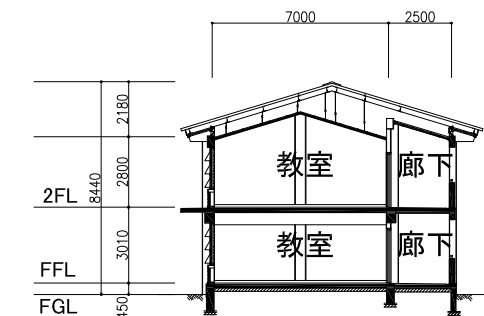
妻側立面図
(タイプ2-5A+O#1)



妻側立面図
(タイプ2-5A+O#1)



教室側立面図(タイプ2-5A+O#1)



断面図(タイプ2-5A+O#1)