# **Aldea Patzac School Project**



# **Community of Patzac**

Region: Quiché Department Municipality: San Andrés Sajcabajá Community: Aldea Patzac

Project Partners:

- EWB-USA Guatemala Country office
- San Andrés Sajcabajá Municipality

Community size: about 500 people

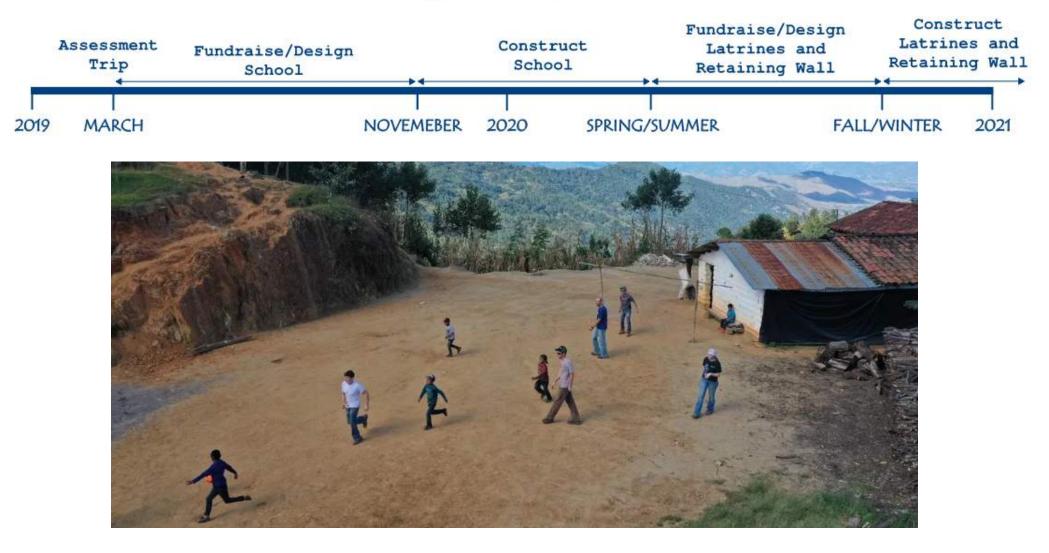
Language: Ki'che dialect

Accessibility: about 1 hour from San Andrés Sajcabajá by truck





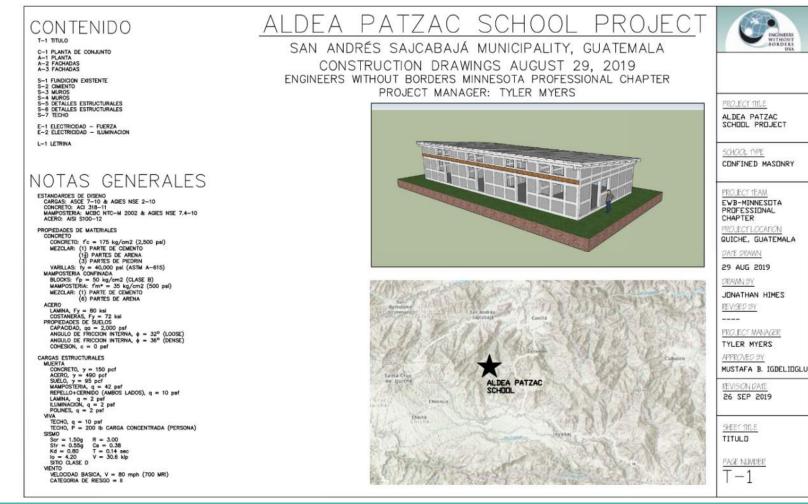
#### Project Timeline



## Assessment Trip - March 2019



## **Design and Fundraising – Summer 2019**























## Next Steps...



## **Next Steps**





**Next Steps** 



## Next Steps

CONTENIDO T-1.0 TITULO

C-1.0 PLAN DE SITIO CIVIL C-2.0 PLAN Y PERFIL CIVIL

S-1.0 PLAN DE SITIO ESTRUCTURALES S-2.0 PLAN DE CIMIENTOS ESTRUCTURALES S-2.1 PLAN DE CIMIENTOS ESTRUCTURALES

#### DATA SET INFORMATION

BASE FILE	FILE NAME/NOTES	PROVIDER	DATE
TOPOGRAPHY	ESCUELA CASERIO PATZAC - PLANOS TOPOGRAFICOS	HANS L. ECKSTEIN PAZ	7/8/20

#### NOTAS GENERALES

DESIGN STANDARDS LOADS: ASCE 7-16 & AGIES NSE 2-18 CONCRETE: ACI 318-14 EARTH RETENTIONS: AGIES NSE 5.3-18 STEEL WOOD

#### MATERIAL PROPERTIES

CONCRETE CONCRETE: f'c = 175 kg/cm2 (2,500 psi) REINFORCING STEEL: fy = 40,000 psi (ASTM 500 psi) MASONRY BLOCKS: f'p = 50 kg/cm2 (CLASS B) MORTAR: f'm\* = 35 kg/cm2 (500 psi)

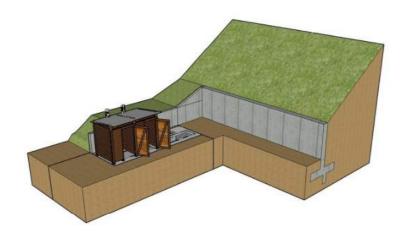
SEEL STEEL: fy = 50 ksi

SOIL PROPERTIES BEARING CAPACITY: qa = 2,500 psf ANGLE OF INTERNAL FRICTION: 0 = 28 deg(LOOSE) ANGLE OF INTERNAL FRICTION:  $\Theta = 28 \text{ deg(DENSE)}$ COHESION: c = Opsf

STRUCTURAL LOADS DEAD LOADS CONCRETE: Y = 150 pcf STEEL: Y = 490 pcfSOIL: Y = 95 pcfMASONRY MASJONEY LIVE LOADS WALL SURCHARGE: q = 40 psfLATRINE SLAB: q = 40 psfLATRINE SLAB: P = 1,000 ib (CONCENTRATED LOAD) LATRINE ROOF: P = 200 ib (CONCENTRATED LOAD) WIND BASIC WIND SPEED: V = 80 mph (700 MRI) RISK CATEGORY: II EXPOSURE: C SEISMIC Scr = 1.5g R = 3.00 $S_{r} = 1.5g$   $S_{r} = 0.55g$  Kd = 0.8  $I_0 = 4.2$ SITE CLASS D Cs = 0.38T = 0.14 sec

#### ALDEA PATZAC SCHOOL PROJECT

SAN ANDRES SAJCABAJA MUNICIPALITY, GUATEMALA CONSTRUCTION DRAWINGS SEPTEMBER 2020 ENGINEERS WITHOUT BORDERS MINNESOTA PROFESSIONAL CHAPTER PROJECT MANAGER: TYLER MYERS







PROJECT TITLE ALDEA PATZAC SCHOOL

PROJECT

SCHOOL TYPE CONFINED MASONRY

PROJECT TEAM EWB-MINNESOTA PROFESSIONAL CHAPTER PROLECT LOCATION

OUICHE, GUATEMALA

DATE DRAWN 10-Sep-20

DRAWN BY

THOMAS DESUTTER REVISED BY

PROJECT MANAGER TYLER MYERS

APPROVED BY

MUSTAFA B. IGDELIOGLU

REVISION DATE

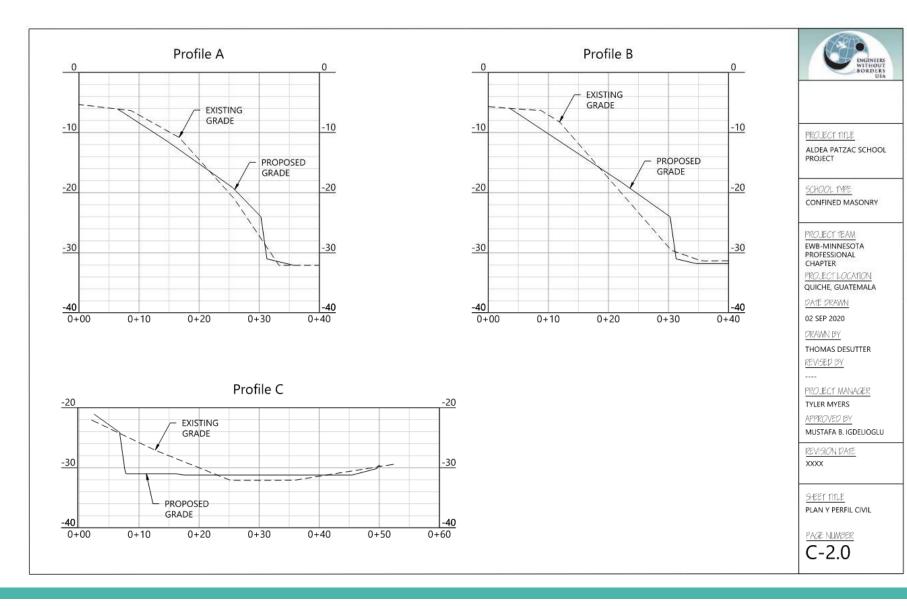
SHEET TITLE TITULO

PAGE NUMBER T-1.0

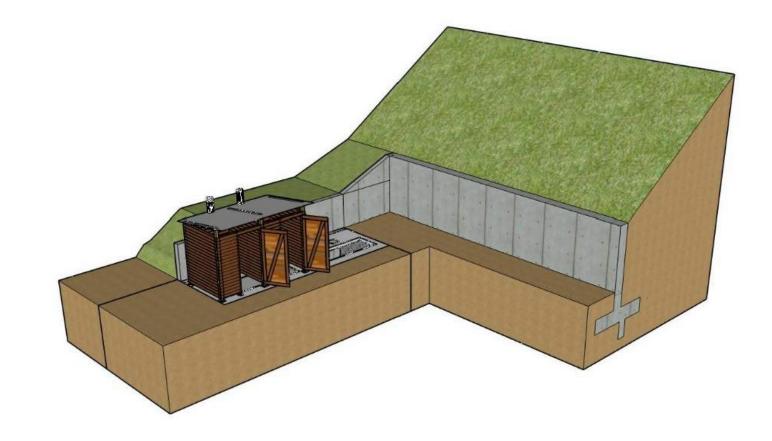












# **Contributing to EWB-MN**

Financial contributions

- District Grant
- Company Donations
- Individual Donations
- Please visit http://ewb-mn.org
- Currently throwing a "Coffee with a Purpose Stocking Stuffer" Fundraiser...

