

3 de febrero de 2020

Para: Departamento de Educación  
Dr. Eligio Hernández Pérez  
Secretario de Educación

De: Ingenium Professional Group PSC  
Calle Progreso # 50 – Suite 202, Fajardo PR 00738  
Tels. 787.918.5890 / 5891 | Email: info@ingenium.group

Nombre del Representante Autorizado: \_\_\_\_\_

*Mariano Perez*

Firma: \_\_\_\_\_

*[Handwritten Signature]*

Escuela: \_\_\_\_\_ DOMINGO MASSOL \_\_\_\_\_ Código: \_\_\_\_\_ 50252 \_\_\_\_\_

Municipio: \_\_\_\_\_ ADJUNTAS \_\_\_\_\_ Fecha Inspeccion: \_\_\_\_\_ 29-Jan-20 \_\_\_\_\_

Nombre del Ingeniero que  
emite la recomendación: \_\_\_\_\_ EFREN RIVERA \_\_\_\_\_ LIC: \_\_\_\_\_ 8904 \_\_\_\_\_

### Documentos Entregados:

- 1 Recomendación al Secretario
- 2 Estampilla Digital Especial emitida por el CIAPR
- 3 Informe de inspección Ocular

Entregado a: \_\_\_\_\_ Fecha: \_\_\_\_\_

**G. RECOMENDACIÓN AL SECRETARIO**

Departamento de Educación  
Dr. Eligio Hernández Pérez  
Secretario de Educación

Hora de Entrada  
a Inspección: 9:45 Am  
Escuela: Domingo Masol  
Municipio: Adjuntas

Hora de Salida de  
Inspección: 11:15  
Código: 50252  
Fecha de Inspección: 29 enero 20

Abrir Escuela (Verde) ☒  
Abrir Parcialmente la Escuela (Amarillo) ☐  
No Abrir la Escuela (Rojo) ☐

Comentarios: Luego de realizar la inspeccion  
ocular de la escuela Domingo  
Masol de Adjuntas mi comentario  
es el siguiente:  
1- No se identificó daño  
estructural visible.

Efren Rivera Carrasquillo  
Nombre (Letra de Molde)

Efren R Carrasquillo  
Firma

8904  
# Licencia





COLEGIO DE INGENIEROS Y AGRIMENSORES  
DE PUERTO RICO

PO Box 363845 \* San Juan, Puerto Rico \* 00936-3845  
Tel. 787-758-2250 \* Fax. 787-758-7639

**ESTAMPILLA DIGITAL ESPECIAL (EDE)**

Ing. William Melendez Rivas, PE



Práctica de: Ingeniería  
Licencia: 16383  
Renglón: Certificación  
Descripción del Trabajo: Trámites ante Entes Gubernamentales  
Fecha de Emisión: 2020-02-01  
Monto Emitido: \$5  
Número de Serie: 8650-5780-0975-9315  
Número de Caso: Código:50252  
Proyecto / Unidad: Escuela Domingo Massol, Adjuntas  
Rol del Profesional: Consultor



SELLO PROFESIONAL

**Certificación:**

El profesional certifica con la emisión de la estampilla digital especial del Colegio de Ingenieros y Agrimensores de Puerto Rico el haber cumplido con las disposiciones de la Sección 11 de la Ley 319 del 15 de mayo de 1938, según enmendada.

*La colocación del sello profesional constituye la cancelación de la estampilla digital especial*



Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

## A. GENERAL INFORMATION

1. Street Address of the School:

City:

Adjuntas

State:

P. R.

Zip:

2. School Name:

Domingo Masol

3. Date of inspection:

29 enero 20

4. Inspector's Name:

Efren Rivera

## B. BUILDING SITE INSPECTION

5. Utility Service Safety:

IMPORTANT—Immediately following an earthquake, check the entire property, especially near appliances, for the smell of gas. If gas odor is detected, turn off the gas at the meter where it enters the house. Locate and repair leaks before turning gas back on. If the gas odor persists after the gas has been shut off, vacate the building and contact the gas utility company immediately.

IMPORTANT—Before entering a damaged, vacant building verify that gas is off. Check the gas meter for damage and position of main gas valve, either a manual valve or a seismically-activated gas shut-off valve. Do not enter the building if gas odor is detected.

a. Odor of natural gas leakage? ☐ YES ☒ NO

b. Downed powerlines? ☐ YES ☒ NO

6. Surrounding topography: (check one)

☐ Flat

☒ Gently sloping (easily walkable)

☐ Steeply sloping (difficult or impossible to walk in some areas)

7. Building pad: (check one)

☒ Flat

☐ Terraced or multilevel

☐ Gently sloping (less than 4-foot ground surface elevation difference across house)

☐ Steeply sloping (greater than 4-foot ground surface elevation difference across house)

8. Geotechnical Issues: (if yes, provide description and photos)

YES

NO

a. New cracks in the ground?

☐

☒

b. Signs of fresh cracking in or movement of hardscape?

☐

☒

c. Signs of fresh cracking in or movement of retaining walls?

☐

☒

d. Patterns of cracking that extend through the ground surface, hardscape, and improvements?

☐

☒

e. Evidence of sand boils or other fresh-appearing deposits of sand or mud?

☐

☒

f. Unusual slumping, rising, or bulging of the ground surface?

☐

☒

g. Evidence of rock falls or slope instability above site?

☐

☒

h. Ground movement or wet areas indicating possible broken underground utility lines?

☐

☒

i. Other phenomena (e.g., septic tanks surfacing, differential settlement, ground consolidation)?

☐

☒

# GENERAL EARTHQUAKE DAMAGE OCULAR INSPECTION CHECKLIST

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

## B. BUILDING SITE INSPECTION (continued)

YES NO

9. Evidence of earthquake-induced permanent ground deformation in the immediate vicinity of the property? ☐ YES ☒ NO

## C. GENERAL BUILDING INFORMATION

10. Safety Assessment Tag: (check one) ☐ None ☐ Green ☐ Yellow ☐ Red  
(others): ☐ Yellow ☐ Red

11. a) Year of original construction (best estimate): \_\_\_\_\_  
b) Total square footage (best estimate): \_\_\_\_\_

YES NO

12. Have any repairs, modifications, or demolition been performed since the earthquake?  
If yes, describe \_\_\_\_\_

☐ YES ☒ NO

### 13. Building configuration:

- ☒ a. Single story  
☐ b. Combination one and two story  
☐ c. Full two story  
☐ d. Three story  
☐ e. Split level  
☐ f. Typical  
☐ g. Other, describe \_\_\_\_\_

### 16. Sill bolting:

- ☐ a. Structure bolted to foundation  
☐ b. Structure not bolted to foundation  
☒ c. Don't know

### 14. Exterior wall finish:

- ☐ a. Stucco  
☐ b. Panel siding  
☐ c. Metal siding  
☐ d. Masonry veneer  
☐ e. Other, describe cement plaster

### 17. Roof configuration:

- ☐ a. Gable  
☐ b. Hip  
☒ c. Flat or very low slope  
☐ d. Shed  
☐ e. Other, describe \_\_\_\_\_

### 15. Foundation configuration:

- ☒ a. Slab-on-grade  
☐ b. Crawlspace without cripple walls  
☐ c. Crawlspace with cripple walls  
☐ d. Exposed piers or posts  
☐ e. Typical  
☐ f. Metal  
☐ g. Other, describe \_\_\_\_\_

### 18. Roof covering:

- ☒ a. Asphaltic membrane  
☐ b. Wood shingle or shake  
☒ c. Concrete  
☐ d. Metal  
☐ e. Elastomeric  
☐ f. Other, describe \_\_\_\_\_

# GENERAL EARTHQUAKE DAMAGE OCULAR INSPECTION CHECKLIST

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

## D. EXTERIOR BUILDING INSPECTION

### 19. General: (if yes, provide description and photos)

YES NO N/A

a. Collapse, partial collapse, or building off foundation?

☐
☒

b. Obvious lean in any story?

☐
☒

### 20. Exterior walls: (if yes, provide description and photos)

a. Fresh cracking at corners of door and window openings?

☐
☒
☐

b. Fresh cracking at building corners?

☐
☒
☐

c. Door or window openings racked out of square?

☐
☒
☐

d. Broken glass in windows or doors?

☐
☒
☐

e. Wall leaning?

☐
☒
☐

f. Bulging or delamination of stucco?

☐
☒

g. Pattern of cracking that extends from the ground surface, through foundation, and wall?

☐
☒

h. Evidence of recent relative movement at mudsill line?

☐
☒

i. . At locations where the exterior stucco is continuous from the framing down over the foundation, is there cracking of stucco along the mudsill level accompanied by indications of permanent displacement (sliding) of the building relative to the foundation?

☐
☒
☐

j. Collapse, partial collapse, or separation of masonry veneer?

☐
☒
☐

k. Severe cracking, separations, or offsets at building irregularities?

☐
☒
☐

### 21. Foundation: (if yes, provide description and photos)

a. Fresh cracking of exposed perimeter foundation?

☐
☒

b. Relative movement between slab and footing in "two-pour" slab-on-grade foundations?

☐
☒
☐

c. Ask homeowner if any earthquake retrofits have been done to the home?

☐
☒
☐

If Y describe: \_\_\_\_\_

d. If the answer to c is Y, were bolts added to connect the home to the foundation?

☐
☒
☐

e. If the answer to c is Y, were plywood or sheathing added to any cripple walls under the home?

☐
☒
☐

# GENERAL EARTHQUAKE DAMAGE OCCUPANT INSPECTION CHECKLIST

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

## D. EXTERIOR BUILDING INSPECTION (continued)

### 22. Kitchen Hook (if yes, provide description and photos)

	YES	NO	N/A
a. Present on external wall?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Present at internal location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Collapse or partial collapse?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Visible damage or cracking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Visible tilting or separation from building?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Shifted or loose and displaced	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. Deterioration or deformation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### 23. Roof: (if yes, provide description and photos)

a. Shifted or dislodged or concrete damage?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Impact damage to roof from falling object?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Displaced rooftop HVAC units?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Significantly sagging roof ridgelines?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Signs of movement between rafter tails and wall finishes at eaves?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Buckled/dislodged flashing or tearing of roof membrane, roof/wall intersections in split level buildings, additions, or other building irregularities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. Tearing of roof membrane or deck waterproofing at re-entrant corners?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. Toppling, shifting, or damage/leakage at refrigerant and electrical lines of rooftop mechanical equipment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i. Shifting of or damage to solar panels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



# GENERAL EARTHQUAKE DAMAGE OCULAR INSPECTION CHECKLIST

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

## D. EXTERIOR BUILDING INSPECTION (continued)

- |  | YES                      | NO                                  | N/A                      |
|--|--------------------------|-------------------------------------|--------------------------|
| 24. Attached or abutting improvements: (if yes, provide description and photos)  |                          |                                     |                          |
| a. Collapse, partial collapse, or separation of attached porches, carports, Gazebos, or awnings?   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Evidence of recent settlement or displacement of exterior steps, patios, or walkways relative to the building?                            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
| c. Signs of movement between building floor and/ or exterior hardscape or retaining wall along the uphill side of non steeply sloping sites? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d. Toppling, shifting, or damage/leakage at refrigerant and electrical lines of air conditioning condenser unit(s)?                          | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 25. Independent exterior improvements: (if yes, provide description and photos)  |                          |                                     |                          |
| a. Damaged detached gazebo?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Damage to fences / privacy walls?   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Damage to retaining walls?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d. Damage to walkway?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e. Evidence of leakage from water supply lines?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f. Toppling, shifting, or damage/leakage at fuel connection of propane tanks?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| g. Others damage   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

## E. INTERIOR INSPECTION

### 26. General information

a. If interior access not possible, identify reason

- ☐ i. Red tag
- ☐ ii. Hazardous materials
- ☐ iii. Other hazardous condition, describe \_\_\_\_\_
- ☐ iv. Other, describe \_\_\_\_\_

b. Typical wall and ceiling finish

- ☐ i. Drywall
- ☐ ii. Plaster on gypsum lath
- ☐ iii. Plaster on wood lath
- ☐ iv. Other, describe concrete plaster



# GENERAL EARTHQUAKE DAMAGE OCULAR INSPECTION CHECKLIST

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

## E. INTERIOR INSPECTION (continued)

27. Walls: (if yes, provide description and photos)	YES	NO	N/A
a. Fresh cracking, buckling, spalling, or detachment of interior wall finish at corners of door and window openings?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Fresh cracking of wall finishes at wall corners or wall/ceiling intersections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Door or window openings racked out of square?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Wall leaning?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Pattern of cracking that extends from the floor slab through the wall?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Movement or sliding of walls relative to the floor?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. Severe cracking, separations, or offsets at building irregularities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. Doors damaged, difficult to operate, or inoperable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i. Windows damaged, difficult to operate, or inoperable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
28. Ceilings: (if yes, provide description and photos)			
a. Collapse of ceiling finish?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Fresh cracking of ceiling finishes, especially at re-entrant corners; cracks along corner bead at stairwell openings; cracking or tearing of finishes at ceiling/wall juncture; or multiple "nail pops"?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Damage to ceiling finishes in vicinity of corridors or commons places?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Separations or cracks in ceiling finishes at split-levels, re-entrant corners, additions, appendages, or other building discontinuities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Water damage or evidence of recent leakage from plumbing lines or roofing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

# GENERAL EARTHQUAKE DAMAGE OCULAR INSPECTION CHECKLIST

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

## E. INTERIOR INSPECTION (continued)

29.	Floors: (if yes, provide description and photos)	YES	NO	N/A
a.	Evidence of recent sloping, sagging, settlement or displacement of floors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b.	In slab-on-grade locations, fresh cracking of floor slab or floor finishes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c.	Significant sagging or unusual bounciness of floors frames?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d.	Separations or cracks in floor finishes at split-levels, re-entrant corners, additions, appendages, or other building discontinuities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e.	Signs of movement between floor and exterior hardscape or retaining wall along the uphill side of homes on steeply sloping sites?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f.	A pattern of fresh cracks, gaps, or joint separations in floor finishes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g.	Impact damage to floor finishes from falling contents?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
30.	Mechanical systems: (if yes, provide description and photos)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a.	Displaced connection of appliance flues connected to chimneys?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b.	Toppling, shifting, leakage from tank, leakage from water connections displaced flue connection or damage/leakage at gas line or electrical connection of water heater?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c.	Shifting, damage/leakage at gas line, flue connection, electrical connection, refrigerant line, and condensate drain connection of furnace or air conditioning fan-coil unit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d.	Damage to gas line of gas stoves or gas fueled clothes dryers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e.	Damage to toilets?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f.	Decreased or restricted water pressure at appliances, faucets, or toilets?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g.	Toppling or shifting of free-standing wood stove and/or flue?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h.	Toppling, shifting, damage/leakage at fuel connection of fuel oil tank?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i.	Other Damage in the dining room	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j.	Damage near the gas tank	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## OCULAR INSPECTION CHECKLIST

Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

### E. INTERIOR INSPECTION (continued)

- |  | YES                      | NO                                  | N/A                      |
|--|--------------------------|-------------------------------------|--------------------------|
| 31. Architectural woodwork and special finishes: (if yes, provide description and photos)                                    |                          |                                     |                          |
| a. Shifting of or damage to kitchen or bathroom cabinetry?   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Impact damage to countertops from falling objects?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Cracking of ceramic tile in showers or tub/shower enclosures consistent with earthquake damage to adjacent wall finishes? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

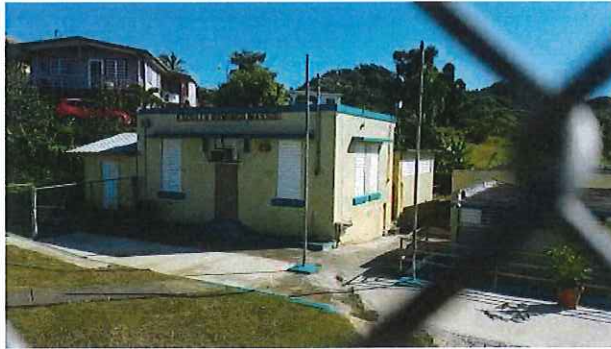
### F. CONTINGENT INSPECTIONS

- |  | YES                      | NO                       | N/A                                 |
|--|--------------------------|--------------------------|-------------------------------------|
| 32. Retaining Tank Wall damage?                      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 33. Water tank or other field subterranean structure | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Contact: Efren Rivera  
Company: Ingenium Group  
Phone: 7876451041  
Email: efren@ingenium.group

Created: Thu 30 Jan 09:18 2020  
Title: Escuela Domingo Masol de Adjuntas-No se Identifico Daño Estructural Visible.  
No. Items: 9

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\_EscuelaD\_200130092120.jpeg

Created: Thu 30 Jan 09:21 2020

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Created: Thu 30 Jan 09:21 2020

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Contact: Efren Rivera      Created: Thu 30 Jan 09:18 2020  
Company: Ingenium Group      Title: Escuela Domingo Masol de Adjuntas-No se Identifico Daño Estructural  
Phone: 7876451041      Visible.  
Email: efren@ingenium.group      No. Items: 9

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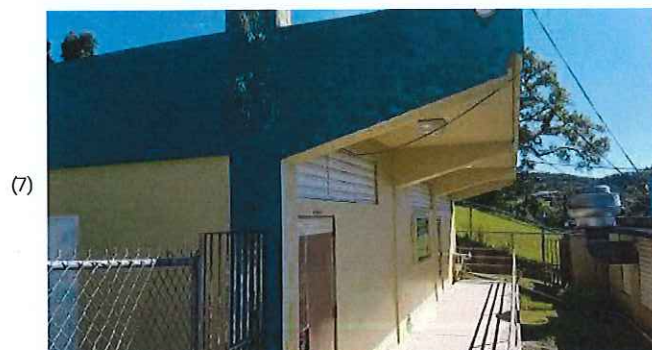
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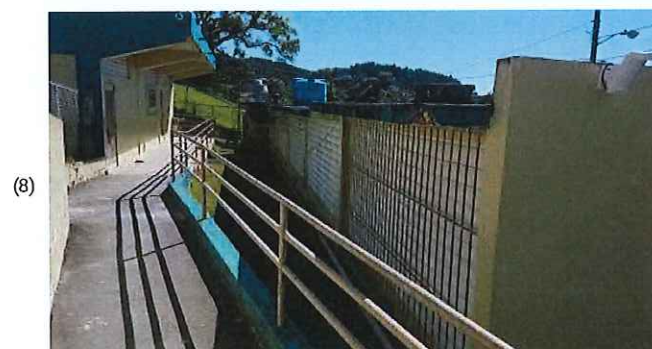
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Contact: Efren Rivera  
Company: Ingenium Group  
Phone: 7876451041  
Email: efren@ingenium.group

Created: Thu 30 Jan 09:18 2020  
Title: Escuela Domingo Masol de Adjuntas- No se Identifico Daño Estructural Visible.  
No. Items: 9

(9)



\_EscuelaD\_200130092121\_5.jpeg

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