



### **TECHNICAL REQUIREMENTS AND SPECIFICATIONS**

PROJECT: Urb. Mansiones de Las Piedras Damage Repair

City: Las Piedras

**Location:** Latitude: 18.1919 Longitude: -65.87130

Project Num.: 87524 PW: 1863 Damage Inventory: 275569

**Acquisition: Formal Bid** 

**Proposal Solicitation: RFP** 

HON. RAY J. QUIÑONES VÁZQUEZ SECRETARY DRD- PUERTO RICO HURRICANE MARIA DAMAGE RECONSTRUCTION







### Mansiones del Las Piedras Facility Damages Repair

### Facility Damage - Chain Link Fence

1) Remove, dispose, supply and install chain link fence. Approximately 60 LF.

### Facility Damage - Concrete Benches

- Demolition and disposal of existing damaged concrete benches. Approximately 27 CY.
- 2) Supply and Install new pre-cast concrete benches. Three (3) EA. See specifications.

### Facility Damage - Paint

- 1) Paint basketball court markings.
- 2) Paint basketball goals.
- 3) Paint all benches. (300 SF) Use exterior wall paint.
  - Clean and patch all existing surfaces
  - Basketball Flooring: See Multisport Technical Specification. Use Acrylic Synthetic System equal or similar to Polysport System by OAFA.
  - Product Description:
    - a. Steel Structures: Similar or equal to Sherwin Williams Pro Industrial DTM Acrylc Primer/Finish. Apply two (2) coats.
    - b. Exterior Wall Paint: Similar or equal to Sherwin-Willams Quick Dry Interior/ Exterior Stain Blocking Primer. Apply One (1) coat. Of primer. A-100 Exterior acrylic Latex. Apply two (2) coats of paint.
    - c. Colors to be selected by owner.
    - d. The contractor is responsible to supply all necessary painting materials.



### **Buy American Act Requirements:**

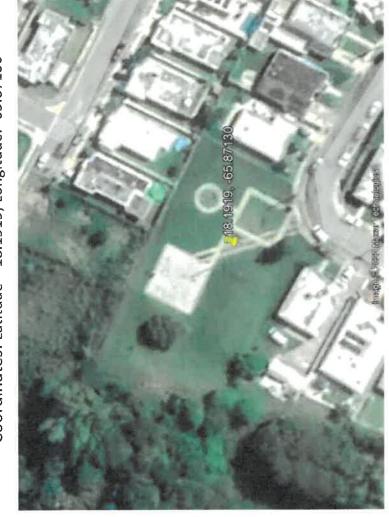
Buy American requirements apply to purchases of iron, steel, and other manufactured products permanently incorporated into infrastructure projects. To be considered as being produced in the U.S., goods must be manufactured in the U.S. and at least 50% of the cost of their components must come from the U.S.

### **Additional Notes:**

- 1) The contractor shall visit the job site and become acquainted with the existing field conditions.
- 2) The contractor shall submit with the proposal, the proposed Synthetic Acrylic System specifications with the warranty terms and conditions. The system must be equal or similar to the specified and shall comply with a minimum of minimum five (5) year warranty, excluding damages by improper use and wear due to normal use.
- 3) The contractor is responsible to comply with all laws, regulations, codes, professional licenses required by Municipal, State, Federal and Local laws.
- 4) To all existing concrete surface (where occur) All spalling concrete must be repair. Chip the existing loose concrete and treat the exposed rebar. Clean with a steel brush and apply (equal or similar) Loctite Extend Rust Neutralizer, apply (equal or similar) Sika Armatec 110 EpoCem and then patch and finish the affected area with Vinyl Concrete Patch. For all product, follow the manufacturer mixing and application recommendations.
- 5) The word "Typical" or "Typ.", "Standard Drawing" or "Std. DWG" and "where occur", means whenever or wherever the mentioned or illustrated conditions happened, the note, detail or scope will apply.
- 6) All exterior concrete structure or item must be painted with exterior paint. (where occur).

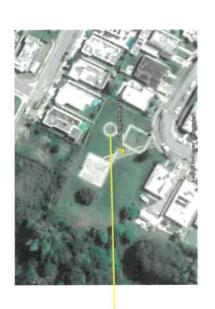
# Damage Repairs – Mansiones de Las Piedras, Las Piedras Scope of Work Reference

Coordinates: Latitude – 18.1919, Longitude: -65.87130



### Replace Existing Concrete Benches:







- Replace existing and install new precast concrete benches. Paint all new and existing.
- \* See scope of work attached.

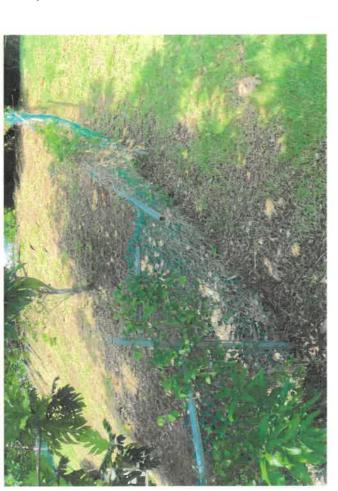
### **Basketball Court Repairs**



 Existing court slab cleaning and making painting. Paint existing goal.

\* See scope of work attached.

## Replace existing chain link fence



Replace existing 6 FT chain link fence section.

\* See scope of work attached.

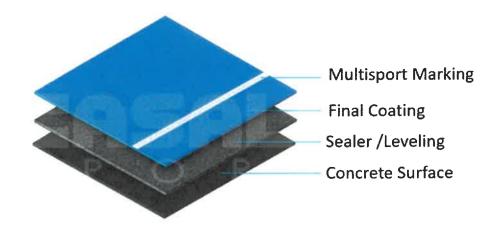
Half - Basketball Court Floor Paint Color





### Multisport Court Repair Scope of Work Multisport Acrylic Synthetic Flooring System Technical Specification

Basketball Court Surface Preparation



### Acrylic Synthetic Sport Flooring System

### EQUAL OR SIMILAR TO POLYSPORT SYSTEM BY OAFA

2023 - Departamento de Recreación y Deportes



- 1) Concrete surface preparation
  - Remove existing surface paint with paint removal product.
  - Product should be compatible with acrylic system product.
  - Scarify existing concrete.
  - Pressure washes existing scarified concrete surface to remove all remaining dust.
  - Treat all concrete cracks with product compatible and recommended by system's manufacturer.
  - Seal existing concrete surface applying a synthetic resin-based filler using an
    acrylic resin based coating containing select sands, in water emulsion, especially
    formulated to seal concrete surfaces. Be sure that the product is compatible and
    recommended by system's manufacturer.

Characteristic	U.M.	Value	Tolerance
Specific weight	Kg/dm³	1,64	± 0,1
Dry mass residue	%	75	± 3
Dry volume residue	%	59	± 3
Residue at 450°C	%	61	± 3
Brookfield viscosity (with Brookfield viscosimeter rotor no. 6, speed 10)	mPa·s	90000	± 5000
PH	*	8	±1

- Surface must be sloped correctly to ensure rainwater runoff and prevent pooling.
- 2) Supply and apply Final Acrylic Coating System. Acrylic resin-based covering developed for multi-purpose sports flooring. The hard resin-based formula with UV ray resistant pigments and select sands that makes the ideal sports surfaces for many different games. Resin surfaces must be waterproof (non-draining).

Characteristic	U.M.	Value	Tolerance
Specific weight	Kg/dm³	1.7	± 0,1
Dry mass residue	%	76	±3
Dry volume residue	%	60	± 3
Residue at 450°C	%	65	± 3
Brookfield viscosity (with Brookfield viscosimeter rotor no. 6, speed 3)	mPa·s	240000	± 12000
pH	-	8	±1

2023 - Departamento de Recreación y Deportes



- Coverage as recommended by manufacturer.
- Ductile and resistant to abrasion
- Weather Resistant
- Maintenance Free
- Always available to play even when a heavy rain or hot weather have occurred.
- 3) Basketball court marking use a highly covering acrylic paint, especially developed to mark field (2") lines on acrylic surfaces.

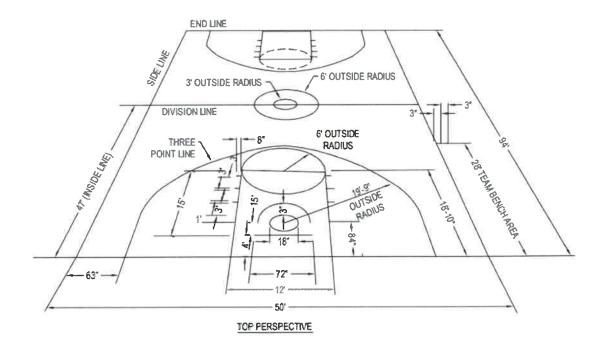
Characteristic	U.M.	Value	Tolerance
Specific weight	Kg/dm³	1,38	± 0.1
Dry mass residue	%	54	± 0.5
Dry volume residue	%	36	± 0,5
Residue at 450°C	%	37	± 0,5
Brookfield viscosity (with Brookfield viscosimeter rotor no. 6, speed 5)	mPa·s	23000	± 2000
pH	-	9	± 1

- See typical color pattern
- See basketball court layout.

### **Buy American Act Requirements:**

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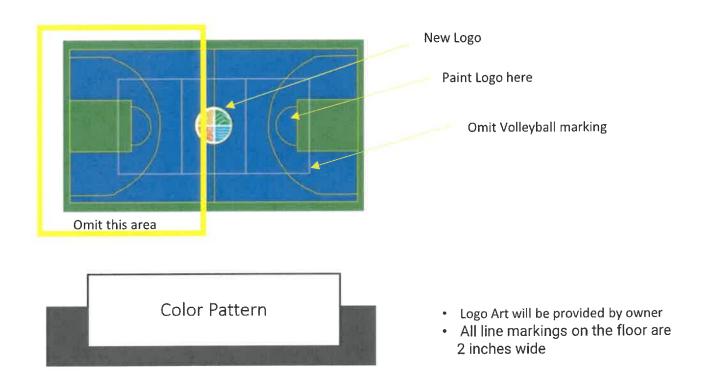


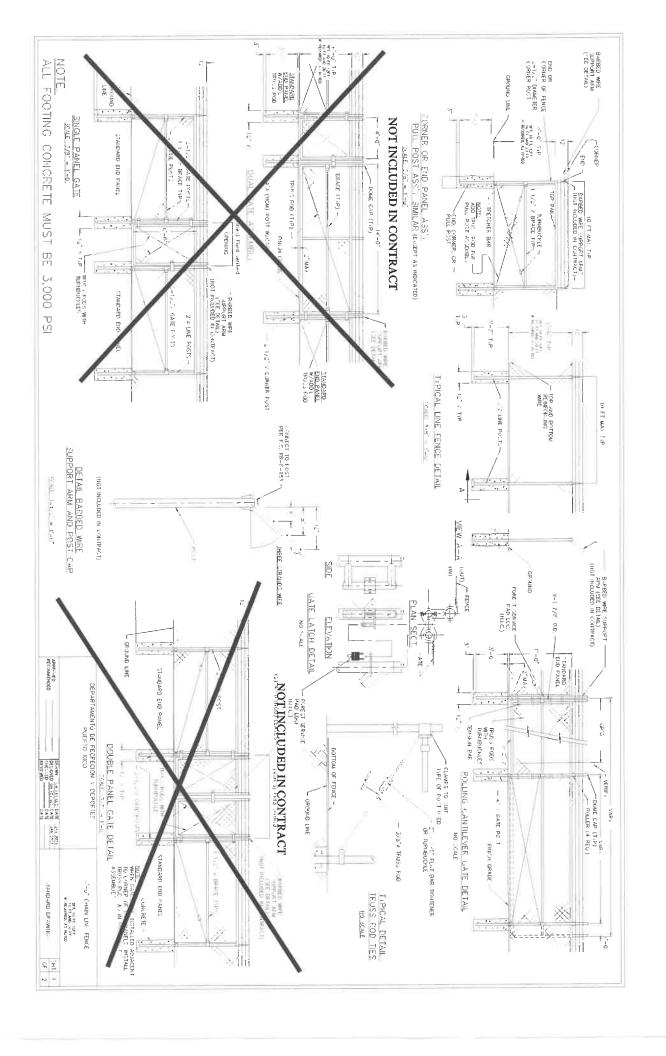
- NOTES:

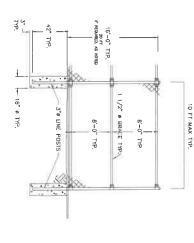
  1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE LINES.
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
   DO NOT SCALE DRAWING.



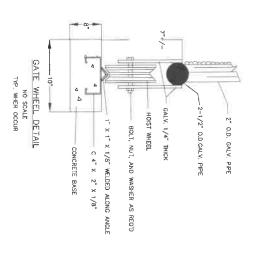
### Half - Basketball Court Floor Paint Color

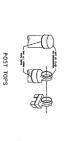


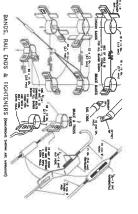




TYPICAL 16FT LINE FENCE DETAIL SCALE: NOT TO SCALE











### GENERAL NOTES

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NOTE:
ALL FOOTING CONCRETE MUST BE 3,000 PSI

APPROVED DESCRIPTION OF REVIEW DATE RECOMMENDED CHECKED TO DATE RECOMMENDED CATE OF THE REVIEWED DATE REVIEWED DATE.		PUERTO RICO
C DATE JAN 2023 C DATE JAN 2023 DATE DATE		Ž C
STANDARD DRAWINGS	BFT, 10 FT, 12FT 16 FT AND 20 FT IF REQUIRED, AS NOTED	6"-0" CHAIN LINK FENCE
OF SH		171

### **GENERAL NOTES**

### NOTES:

- 1- In activities that backfill is required the contractor must use A-2-4 or similar compacted in layers of 6" inches thickness at 95% and been verified by laboratory tests, which will be paid by the contractor.
- 2. All document included in this bidding process are part of the contract.
- 3. The contractor shall connect the structure to the existing water and sewer connection services of the site if it where not connected.
- 4. Demolition and construction disposal will be contractor's responsibility.
- 5. The contractor will be responsible to implement Plan CEST, PFE (Permiso de Fuente de Emision) and DS3 (Desperdicios Solidos no Peligrosos) as required by the Junta de Calidad Ambiental. (If required)
- 6. The contractor shall maintained the site clean and free of debris during work in progress.
- 7. A boundary shall be identified on field to isolated the construction area from the areas that are not impacted. The limit will be defined using a temporary fence that must be provided by the contractor.
- 8. The contractor will be responsible for all the demolition and debris disposal during the construction. Everything must be coordinated with the Consultant including any foundation demolition if it where the case.
- 9. "The contractor will plant Soisa Meyer grass in tight squares in all the Green areas affected by the construction.
- 10. All site dimensions must be verified on site by the contractor.
- 11. The contractor shall be responsible for any damage cause by the contractor or his employee to the existing infrastructure on the field.
- 12. All sidewalks finishes shall be broom finish.
- 13. The contractor shall be familiarized with the existing site conditions before the bidding.
- 14. The construction site perimeter will be protected with a temporary fence.
- 15. The contractor will submit a work plan in addition to the cost breakdown for payment for owner's Consultant approval.
- 16. If applicable any slopes that are generated on the site will not have a slope greater than 1:1 and shall be duly stabilized with Jute or a Similar approved geotextile product and Soysa Meyer grass will be tightly installed for permanent stabilization.
- 17. The contractor Will familiarize himself with the included Electrical and structural notes and specifications where applicable.

DEPARTAMENTO DE RECREACIÓN Y DEPORTES (DRD)

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Bid Documentsfore ethod of Repair (MOR)

EPARTAMENTO DE RECREACIÓI ESERTO RICO

DATE July 15, 2020 REVISIONS: 0.3

DRAWN BY: Miraida Rodríguez SCALE: N/A

SHEET NAME:

GENERAL NOTES

SHEET 24 0F 26

### PAINT NOTES

- ALL INTERIOR AND EXTERIOR WALLS SHALL BE PAINTED
  WITH THREE COATS OF PAINT. THE INTERIOR THREE COAT SISTEM
  CONSISTS OF A SEALER PRIMER COAT AND TWO FINISH COATS
  WITH 100 % ACRILIC LATEX PAINT, EGGSHELL FINISH
  EXTERIOR THREE COAT SISTEM COMSISTS OF A QUICK DRY STAIN BLOKER AND SEALER
  PRIMER AND TWO FINISH COAT OF 100% ACRILIC PAINT. COLOR TO BE
  SELECTED BY THE ENGINEER PATCH AND REPAIR WITH CONCRETE
  PLASTER ALL SURFACE IF NECESSARY, BEFORE PAINT
- 2 ITEMS NOT TO BE PAINTED WHICH ARE IN CONTACT WITH OR ADJACENT TO PAINTED SURFACES SHALL BE REMOVED OR PROTECTED PRIOR TO SURFACE PREPARATION AND PAINTING OPERATIONS. ITEMS REMOVED PRIOR TO PAINTING SHALL BE REPLACED WHEN PAINTING COMPLETED.
- EXTERIOR WALL TO BE PAINTED SHALL BE CLEAN WITH WATER WASHER MACHINE AND BE FREE OF FOREING MATTER BEFORE APPLICATION OF PAINT OR SURFACE TREATMENTS OIL AND GREASE SHALL BE REMOVED PRIOR TO MECHANICAL CLEANING SHALL BE PROGRAMED SO THAT DUST AND OTHER CONTAMINANTS WILL NOT FALL ON WET. NEWLY PAINTED SURFACES
- 4 BLISTERING, CRACINING, FLAKING AND PEELING OR OTHER DETERIORATED COATINGS SHALL BE REMOVED. SLICH SURFACES SHALL BE ROUGHENED DAMAGED AREAS SUCH AS BUT NOT LIMITED TO MAIL HOLES, CRACHS CHIPS, AND SPALLS SHALL BE REPAIRED WITH SUITABLE MATERIAL TO MATCH ADJACENTS UNDAMAGED AREAS.
- 5. STEEL STRUCTURE SHALL BE SANDED AND FAINTED WITH ONE ANTI -RUST PRIMER AND TWO COAT OF STOPS RUST INDUSTRIAL WATER BASE ENAMEL PAINT.
- 6 SEE PAINTING SPECIFICATIONS

### **Equal or Similar**

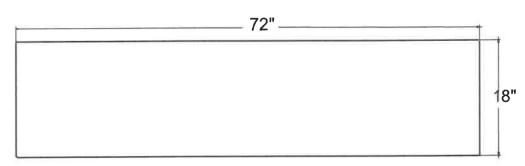
111 North River Road North Aurora, IL 60542 Phone: (800) 323-5664 Fax: (630) 897-0573

sales@belson.com

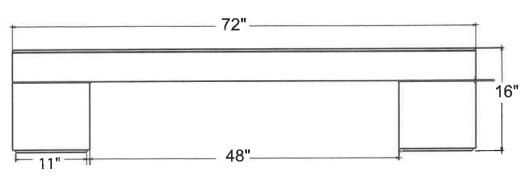
### Model # TF5027

### **Dimension Sheet**

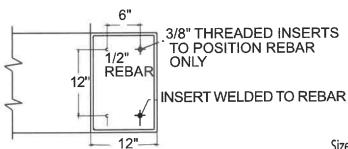
### **Precast Concrete Bench**



### **TOP VIEW BENCH**



### SIDE VIEW BENCH



**BOTTOM SECTION VIEW** 

Size:

72" L x 18" W x 16" H.

Weight:

900 lbs.

Seating Capacity:

5-6 persons.

Material:

Reinforced Precast Concrete.

Reinforcing:

1/2" Dia. steel rebar.

(4) - 3/8" Dia. threaded inserts.

Hardware:

Optional

A. Portland Cement: ASTM C150 specifications for Portland Cement. B. Aggregates: All aggregates to meet ASTM C33

Anchoring: Maintenance:

specifications, to be cleaned of foreign matter and properly graded to size.

2.2 MATERIALS

and re-seal annually.

C. Coloring: Pigments used shall be inorganic, resistant to alkalinity and used as per manufacturers recommendations.

Packaging: construction Banding to pallet optional. One piece

Periodically rinse with water & mild detergent,