

# **AES PRECAST**

PRECAST CONCRETE BUILDING SYSTEMS



Updated 3/9/2007

## **GENERAL SERVICES ADMINISTRATION FEDERAL SUPPLY SCHEDULE**

AUTHORIZED FEDERAL SUPPLY SCHEDULE  
NEW PRICE LIST COMING SOON (WITH NEW MODELS)

SCHEDULE TITLE: 056- Buildings and Building Materials /  
Industrial Services and Supplies  
SIC: 361 10c - Precast Concrete Buildings  
FSC Group 54- Pre-Engineered Prefabricated Buildings and  
Structures  
FSC CLASS (ES): 5410  
CONTRACT NUMBER: GS-07F-0331L  
CONTRACT PERIOD: 9/4/2006 through 9/4/2011

### **AES Precast Co, Inc.**

3851 17th St.

Northport, Al 35476

Toll Free: 800-342-3274

Telephone: 205-333-8000

Fax: 205-333-0181

E Mail: [sales@aesprecast.com](mailto:sales@aesprecast.com)

Web Site: <http://www.aesprecast.com>

CONTRACTORS ADMINISTRATION SERVICE (POC):

Mr. Clarke Drummond

BUSINESS SIZE/TYPE: Small/Manufacturer



INFORMATION FOR ORDERING ACTIVITIES:

1a. TABLE OF AWARDED SPECIAL ITEM NUMBERS (SIN's) WITH APPROPRIATE CROSS-REFERENCE TO PAGE NUMBER(S).

SIN DESCRIPTION

361-10C Precast Concrete Buildings Including Accessories And Options

1b. IDENTIFICATION OF THE LOWEST PRICED MODEL NUMBER AND PRICE FOR EACH SIN: (Government net price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession affecting price. Those contracts that have unit prices based on the geographic location of the customer, should show the range of the lowest price, and cite the areas to which the prices apply)

SIN: 361-10C

MODEL: 48 Sq. Ft.

PRICE: \$3,528.00\*

2. MAXIMUM ORDER PER SIN: \$200,000\*

\*If the "best value" selection places your order over this Maximum Order, you have an opportunity to obtain a better schedule price. Before placing your order, contact the aforementioned contractor for a better price. The contractor may(1) offer a new price for this requirement(2)offer the lowest price available under this contract or 3)decline the order. A delivery order that exceeds the maximum order may be placed under the schedule contract in accordance with FAR 8.404.

3. MINIMUM ORDER: \$100 unless the contractor agrees to accept a smaller order amount.

4. Geographic Coverage (delivery area): the 48 Contiguous States and Washington, D.C.

5. POINT(S) OF PRODUCTION (city, county, and State or Foreign Country):

**AES Precast CO., Inc. 3851 17th St. Northport, Al 35476  
Tuscaloosa County, U.S.**

6. DISCOUNT FROM LIST PRICES OR STATEMENT OF NET PRICE:

5.95% off Commercial price for \$0- \$250,000.00

7. QUANTITY DISCOUNT(s): 10.9% off commercial price for @ 250,001- \$500,000

8. PROMPT PAYMENT TERMS: 1.5%- 10 Days, 1% - 20 days, Net 30 Days

9a. NOTIFICATION THAT GOVERNEMENT PURCHASE CARDS ARE ACCEPTED BELOW THE MICROPURCHASE THRESHOLD: ACCEPTED

9B. NOTIFICATION WHETHER GOVERNMENT PURCHASE CARDS ARE ACCEPTED OR NOT ACCEPTED ABOVE THE MICROPURCHASE THRESHOLD:\*

10. FOREIGN ITEMS (list by country of origin): None

11a. TIME OF DELIVERY: 90 Days ARO

11b. EXPEDITED DELIVERY: Not offered. Items available for expedited delivery are noted in this price list or on a separate attachment.

11c. OVERNIGHT AND 2-DAY DELIVERY: Not Offered.

11d. Urgent Delivery: Customer may request urgent delivery by means of fax or e-mail however it will not be guaranteed

12. FOB POINT(S): Origin-freight prepaid by seller. (US, AK, HI, PR)

13. ORDERING ADDRESS:  
**AES Precast Co, Inc. 3851 17th St. Northport, Al 35476**

14. PAYMENT ADDRESS:  
**AES Precast Co, Inc. 3851 17th St. Northport, Al 35476**

15. WARRANTY PROVISION: Standard Commercial Warranty.

16. EXPORT PACKING CHARGES (If applicable): N/A

17. TERMS AND CONDITIONS OF GOVERNMENT PURCHASE CARD ACCEPTANCE (any threshold ABOVE the micro-purchase level: Contractor will accept Government Purchase Card for orders of \$2,500.00 or less. Contact contractor for acceptance of larger orders.)

18. TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR (IF APPLICABLE): N/A

19. TERMS AND CONDITIONS OF INSTALLATION (IF APPLICABLE): Site prep and site access is the responsibility of the customer. Final electrical and/or plumbing connections to be made by others. Customer must provide a level unobstructed area large enough for a crane and a tractor trailer to park adjacent to pad. Crane must be able to place outriggers within 3" of edge of pad and truck and crane must be able to get side by side under their own power. No overhead lines must be within 75' of radius of center of pad. Firm roadbed with turns that allow 65' lowbed tractor and trailer must be provided directly to site. Should the customer not be able to meet these requirements, extra charges could be incurred.

20a. TERMS AND CONDITIONS OF REPAIR PARTS INDICATING DATE OF PARTS PRICE LISTS AND ANY DISCOUNTS FROM LIST PRICES (IF APPLICABLE): N/A

20B. TERMS AND CONDITIONS FOR ANY OTHER SERVICES (IF APPLICABLE): N/A

21. LIST OF SERVICE AND DISTRIBUTION POINTS (IF APPLICABLE): N/A

22. LIST OF PARTICIPATING DEALERS: N/A

23. PREVENTIVE MAINTENANCE: N/A

24. ENVIRONMENTAL ATTRIBUTES (e.g. RECYCLED CONTENT, ENERGY EFFICIENCY, AND/OR REDUCED POLLUTANTS): N/A

25. DATA UNIVERSAL NUMBER SYSTEM (DUNS) NUMBER:  
197241094

26. NOTIFICATION REGARDING REGISTRATION IN CENTRAL CONTRACTOR REGISTRATION (CCR) DATABASE: Contact Contractor.  
Cage Code 0FUL1



# 2007 Product Guide

**Pre-Engineered, Pre-Fabricated, Modular Concrete Buildings**

**Toll Free 1.800.342.3274**

Fax 1.205.333.0181  
Email: [sales@aesprecast.com](mailto:sales@aesprecast.com)  
3851 17th St.  
Northport, AL 35476



GS-07F-0331L

## AES Precast Restroom & Shower Facilities



Vandalism a problem? With 100% concrete construction, AES Precast restrooms and showers are built for a lifetime of heavy traffic and easily resist vandalism. AES Precast restroom and shower facilities are easy to install and can be customized to fit your needs. Our facilities are ADA compliant to meet the needs of seniors. We offer many options for the exterior and interior, as well as a Hurricane Tie-Down package that gives the building a 150+ mph wind resistance.

Standard Features	Popular Models
<ul style="list-style-type: none"> <li>• Vitreous China Water Closets, Urinals &amp; Lavatories</li> <li>• UL-752 Bulletproof Reinforced Concrete</li> <li>• 3" Walls, 4" Roof, 6" Floor</li> <li>• Concrete Gable Roof</li> <li>• Utility Chase / Storage Area</li> <li>• All Plumbing Concealed in Chase</li> <li>• 3'0" x 7'0" 18 Gauge Steel Doors</li> <li>• 8" Ventilation Fans with Louvers, Rain Hoods &amp; Screens</li> <li>• 125 Amp Electrical Panel</li> <li>• Surface Mounted EMT Conduit</li> <li>• 4' Fluorescent Light Fixtures in Restrooms &amp; Chase</li> <li>• Mirrors, Grab Bars &amp; Toilet Paper Holders</li> <li>• Steel Partitions with Baked Enamel Finish (if applicable)</li> <li>• Non-Slip Floors with Epoxy Finish</li> <li>• Epoxy Coated Interior Walls, White</li> <li>• Choice of Exterior Texture &amp; Color</li> <li>• Stainless Steel Fixtures Optional</li> <li>• Water Fountain Optional</li> <li>• Water Heaters Optional</li> <li>• See Option Page for More Choices</li> </ul>	<p><u>Self Contained Restrooms</u></p> <ul style="list-style-type: none"> <li>• <b>AES Self-Contained:</b> 7' x 13', Unisex, ADA, Waterless, 1000 Gallon Vault (15,000 uses), Gable Roof</li> </ul> <p><u>Flush Style Restrooms</u></p> <ul style="list-style-type: none"> <li>• <b>AES-810-RR:</b> 8' x 10' Unisex, ADA, Sink, Gable Roof, Chase</li> <li>• <b>AES-1018-RRG:</b> 11'6" x 18', Men's/Women's, Single Stall, ADA, Sinks, Gable Roof with 3' Front Porch, Chase</li> <li>• <b>AES-1222-RRG:</b> 11'6" x 22', Men's/Women's, Dual Stall, ADA, Sinks, Gable Roof, Chase</li> <li>• <b>AES-1222-RRG4:</b> 11'6" x 24', (4) Unisex ADA Stalls, Each with Exterior Access, Sinks, Chase</li> </ul> <p><u>Restroom / Shower Facilities</u></p> <ul style="list-style-type: none"> <li>• <b>AES-1218-RSG:</b> 11'6" x 18', Unisex ADA Restroom, Unisex ADA Shower, Sinks, Gable Roof, Chase</li> <li>• <b>AES-1222-SG4:</b> 11'6" x 24', (2) Unisex Showers, (2) Unisex ADA Showers, Exterior Access, Flat Roof, Chase</li> </ul> <p style="text-align: center;"><b>- Please contact AES for pricing -</b></p> <p style="text-align: center;">Crane Rental for Offloading Available.                      5 Year Limited Warranty</p>



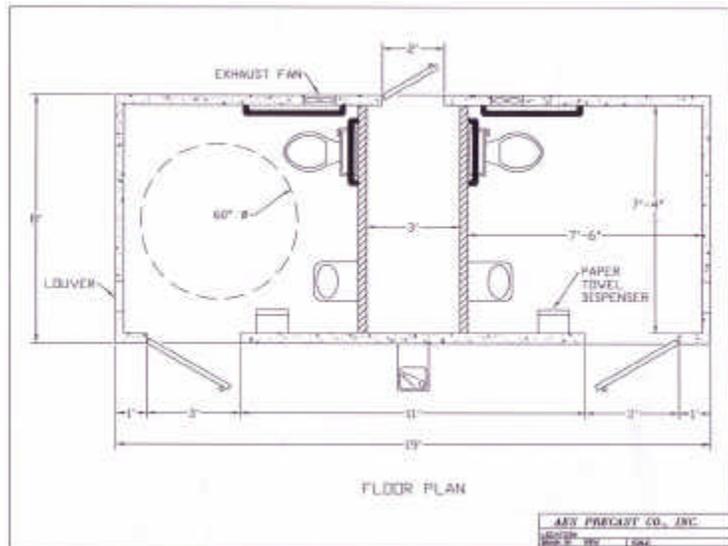
## Flush Style Restroom Model: AES-1018-RRG



The 1018RRG is a very practical solution to areas where a men's and women's restroom is required. The 1018RRG offers (1) stall and (1) sink per side, ADA, along with mirrors, vent fans & lighting. With 100% concrete construction, this restroom is built for a lifetime of heavy traffic and easily resists vandalism. We offer many options for the exterior and interior, as well as a Hurricane Tie-Down package that gives the building a 150+ mph wind resistance.

### Standard Features

- 10' x 18' Exterior
- Men's: ADA Water Closet, Sink
- Women's: ADA Water Closet, Sink
- 3' Front Roof Overhang
- UL-752 Bulletproof Reinforced Concrete
- 4" Walls, 4" Roof, 6" Floor
- Concrete Gable Roof
- Utility Chase / Storage Area
- All Plumbing Concealed in Chase
- 3'0" x 7'0" 18 Gauge Steel Doors
- 8" Ventilation Fans with Louvers, Rain Hoods & Screens
- 4' Fluorescent Light Fixtures in Restrooms & Chase
- Vitreous China Fixtures
- (2) Lexan Windows, Opaque
- Mirrors, Grab Bars & Toilet Paper Holders
- Non-Slip Floors
- Epoxy Coated Interior Walls
- Choice of Exterior Texture/Color
- 125 Amp Electrical Panel
- Surface Mounted EMT Conduit



### - Please contact AES for pricing -

Crane Rental for Offloading Not Included  
 5 Year Limited Warranty  
 Weight 60,000 Lbs.  
 (8) Removable Lifting Points in Floor Slab  
 Plug and Play Utilities

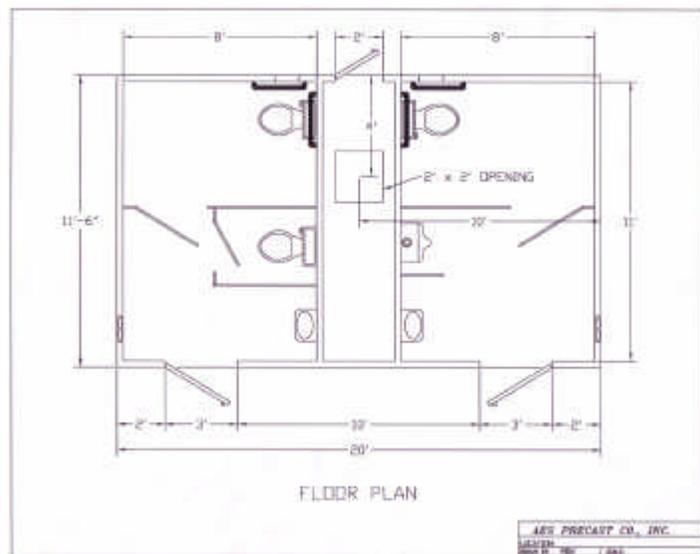
## Flush Style Restroom Model: AES-1222-RRG



Our 1222RRG is one of the most popular restroom designs we manufacture. This restroom is the perfect size for most public areas, and looks great. The texture shown is our simulated split-faced block, with a simulated standing seam metal roof. With 100% concrete construction, this restroom is built for a lifetime of heavy traffic and easily resists vandalism. We offer many options for the exterior and interior, as well as a Hurricane Tie-Down package that gives the building a 150+ mph wind resistance.

### Standard Features

- 11'6" x 22' Exterior
- Men's: ADA Water Closet, Urinal, ADA Lavatory
- Women's: ADA Water Closet, Std. Water Closet, ADA Lavatory
- Vitreous China Fixtures
- Mirrors, Grab Bars & Toilet Paper Holders
- Steel Partitions with Baked Enamel Finish
- UL-752 Bulletproof Reinforced 4,000 psi Concrete
- 4" Walls, 4" Roof, 6" Floor
- Concrete Gable Roof
- Utility Chase / Storage Area
- All Plumbing Concealed in Chase
- 3'0" x 7'0" 18 Gauge Steel Doors
- 8" Ventilation Fans with Louvers, Rain Hoods & Screens
- Lexan Windows, Opaque
- 125 Amp Electrical Panel
- 4' Fluorescent Light Fixtures in Restrooms & Chase
- Non-Slip Floors, Epoxy Coated Interior Walls
- Choice of Exterior Texture/Color



**- Please contact AES for pricing -**

Crane Rental for Offloading Not Included  
 5 Year Limited Warranty  
 Weight: 65,000 Lbs.  
 (8) Removable Lifting Points in Floor Slab  
 Plug & Play Utilities

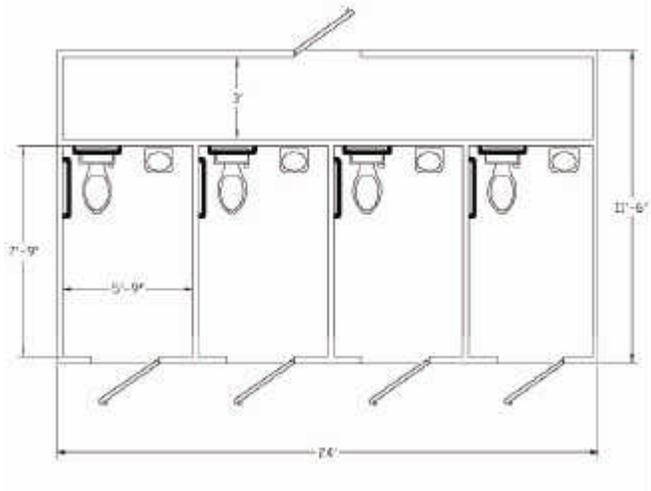
## Restroom / Shower Facility Model: AES-1224-RRG



The 1224RRG is a new model for 2006. This model comes with (4) ADA restrooms. Each restroom is unisex with exterior access. With 100% concrete construction, this facility is built for a lifetime of heavy traffic and easily resists vandalism. We offer many options for the exterior and interior, as well as a Hurricane Tie-Down package that gives the building a 150+ mph wind resistance. Stainless steel fixtures are popular with this model.

### Standard Features

- 11' 6" x 24' Exterior
- (4) ADA Unisex Restrooms
- Vitreous China Fixtures, Mirrors, Grab Bars, Soap Dispensers & Toilet Paper Holders
- UL-752 Bulletproof Reinforced 5,000 psi Concrete
- 3" Walls, 4" Roof, 6" Floor
- Concrete Gable Roof (Flat Roof Optional)
- Chase Area (All Plumbing Concealed in Chase)
- (4) 3'0" x 7'0" 18 Gauge Steel Doors with Louvers
- (1) 2'0" x 7'0" 18 Gauge Steel Door for Utility Chase
- Ventilation Fans
- 4' Fluorescent Light Fixtures in Restrooms & Chase
- Non-Slip Floors with Epoxy Finish
- FRP Laminate Interior Walls & Ceiling
- Stud Wall Partitions
- 125 Amp Electrical Panel
- Surface Mounted EMT Conduit
- Signage
- Choice of Exterior Texture & Color



**- Please contact AES for pricing -**

Crane Rental for Offloading Available.  
 5 Year Limited Warranty

## AES Hazardous / Corrosive Storage



AES hazardous storage buildings are 100% concrete and designed for a lifetime of maintenance free operation. We offer many options for the exterior and interior, as well as a Hurricane Tie-Down package that gives the building a 150+ mph wind resistance. These buildings can come equipped with fire suppression, explosion proof fixtures, alarm systems and fiberglass doors. Door placement and compartment design is up to you. And, AES delivers worldwide.

### Standard Sizes

#### Single Compartment

- 8' x 8'
- 8' x 10'
- 8' x 12'
- 10' x 10'
- 10' x 20'
- 11'6" x 12'
- 11'6" x 14'
- 11'6" x 16'
- 11'6" x 18'
- 11'6" x 20'
- 11'6" x 24'

#### Double Compartment

- 8' x 16'
- 10' x 16'
- 10' x 20'
- 11'6" x 16'
- 11'6" x 20'
- 11'6" x 24'

#### Triple Compartment

- 10' x 24'
- 11'6" x 24'



### Standard Features

- UL-752 Bulletproof Reinforced Concrete
- 3" Walls, 4" Roof, 6" Floor
- Concrete Partition Walls
- 3'0" x 7'0" 18 Gauge Steel Doors, 1.5 Hour Fire Rated, with All Hardware
- 16 Gauge Cast-in-Place Steel Frames
- Passive Ventilation with (4) 12" Louvers, Rain Hoods & Screens
- Two Part Epoxy Coated Spill Containment
- Galvanized Steel Floor Grating
- Signage
- Choice of Exterior Texture & Color

**- Please contact AES for pricing -**

Crane Rental for Offloading Available  
 5 Year Limited Warranty

## AES Communication Shelters



AES communication shelters are designed to protect your equipment from any type of weather in any climate. With HVAC or active ventilation, R-18 insulation and reinforced solid concrete walls, you can rest assured that your equipment is secure. There are numerous sizes and options to choose from and we deliver to your site. We also offer a Hurricane Tie-Down package that gives the building a 150+ mph wind resistance.

### Standard Sizes

- |             |               |
|-------------|---------------|
| • 6' x 6'   | • 10' x 18'   |
| • 6' x 8'   | • 10' x 20'   |
| • 8' x 8'   | • 11'6" x 12' |
| • 8' x 10'  | • 11'6" x 16' |
| • 8' x 12'  | • 11'6" x 18' |
| • 10' x 10' | • 11'6" x 20' |
| • 10' x 12' | • 11'6" x 22' |
| • 10' x 16' | • 11'6" x 24' |

### Standard Features

- UL-752 Bulletproof Reinforced Concrete
- 3" Walls, 4" Roof, 6" Floor
- AES Weatherproofing System
- Concrete Gable Roof Optional
- 3'0" x 7'0" 18 Gauge Steel Door with 16 Gauge Cast-in-Place Frame & All Hardware
- Electrical Panel / Surface Mounted EMT Conduit
- HVAC
- 4' Fluorescent Light Fixtures with Switch
- Duplex Receptacles
- Vinyl Tile Flooring
- R-18 Insulation with FRP Laminate Walls & Ceiling
- Vinyl Tile Flooring
- Choice of Exterior Texture & Color



**- Please contact AES for pricing -**

Crane Rental for Offloading Available.  
 5 Year Limited Warranty

## AES Mechanical Enclosures



AES mechanical enclosures not only look great, they are designed to protect your equipment from any type of weather in any climate. With HVAC or active ventilation, R-18 insulation and reinforced solid concrete walls, you can rest assured that your equipment is secure. We offer numerous sizes and options, and we deliver to your site. We also offer a Hurricane Tie-Down package that gives the building a 150+ mph wind resistance.

### Standard Sizes

- |             |               |
|-------------|---------------|
| • 6' x 6'   | • 10' x 18'   |
| • 6' x 8'   | • 10' x 20'   |
| • 8' x 8'   | • 11'6" x 12' |
| • 8' x 10'  | • 11'6" x 16' |
| • 8' x 12'  | • 11'6" x 18' |
| • 8' x 16'  | • 11'6" x 20' |
| • 10' x 10' | • 11'6" x 22' |
| • 10' x 12' | • 11'6" x 24' |
| • 10' x 16' |               |

### Standard Features

- UL-752 Bulletproof Reinforced Concrete
- 3" Walls, 4" Roof, 6" Floor
- Weatherproof
- Concrete Gable Roof Optional
- 3'0" x 7'0" 18 Gauge Steel Door with 16 Gauge Cast-in-Place Frame & All Hardware
- 12" Ventilation Fan with Louver, Rain Hood & Screen
- Electrical Panel
- Surface Mounted EMT Conduit
- Choice of Exterior Texture & Color



**- Please contact AES for pricing -**

Crane Rental for Offloading Available.  
 5 Year Limited Warranty

## AES Electrical Enclosures



AES electrical enclosures are designed to protect your equipment from any type of weather in any climate. With HVAC or active ventilation, R-18 insulation and reinforced solid concrete walls, you can rest assured that your equipment is secure. There are numerous sizes and options to choose from and we deliver to your site. We also offer a Hurricane Tie-Down package that gives the building a 150+ mph wind resistance.

### Standard Sizes

- 6' x 6'
- 6' x 8'
- 8' x 8'
- 8' x 10'
- 8' x 12'
- 10' x 10'
- 10' x 12'
- 10' x 16'
- 10' x 18'
- 10' x 20'
- 11'6" x 12'
- 11'6" x 16'
- 11'6" x 18'
- 11'6" x 20'
- 11'6" x 22'
- 11'6" x 24'

### Standard Features

- UL-752 Bulletproof Reinforced Concrete
- 3" Walls, 4" Roof, 6" Floor
- Weatherproof
- Concrete Gable Roof Optional
- 3'0" x 7'0" 18 Gauge Steel Door with 16 Gauge Cast-in-Place Frame & All Hardware
- HVAC
- Electrical Panel
- Surface Mounted EMT Conduit
- 4' Fluorescent Light Fixtures with Switch
- Duplex Receptacles
- Vinyl Tile Flooring
- R-18 Insulation with FRP Laminate Walls & Ceiling
- Choice of Exterior Texture & Color



**- Please contact AES for pricing -**

Crane Rental for Offloading Available.  
 5 Year Limited Warranty

## AES Pump / Generator Floorless Housings



AES is a leader in the field of floorless pre-fabricated buildings. Perfect for housing pumps, generators and WWTP equipment, these floorless buildings are lowered on top of your pre-installed equipment, and are then fastened and sealed to your slab. We offer different building sizes, door sizes, HVAC, electrical and ventilation options. Call us for more information and free consulting.

### Standard Sizes

- 6' x 6'
- 6' x 8'
- 8' x 8'
- 8' x 10'
- 8' x 12'
- 8' x 16'
- 10' x 10'
- 10' x 12'
- 10' x 16'
- 10' x 18'
- 10' x 20'
- 11'6" x 12'
- 11'6" x 16'
- 11'6" x 18'
- 11'6" x 20'
- 11'6" x 22'
- 11'6" x 24'

### Standard Features

- UL-752 Bulletproof Reinforced Concrete
- 4" Walls, 6" Roof (4" at edge)
- AES Weatherproofing System
- 3'0" x 7'0" 18 Gauge Steel Door with 16 Gauge Cast-in-Place Frame & All Hardware
- Choice of Exterior Texture & Color
- Floor Optional



**- Please contact AES for pricing -**

Crane Rental for Offloading Available.  
 5 Year Limited Warranty

## AES Offices / Laboratories



AES office & lab buildings are delivered ready to occupy. Optional features include HVAC, R-18 insulation, FRP walls & ceilings, stud wall partitions, vinyl tile flooring, restrooms, cabinets, lights and receptacles. Great as a temporary or permanent installation. There are numerous sizes and options to choose from and we deliver to your site. We also offer a Hurricane Tie-Down package that gives the building a 150+ mph wind resistance.

### Standard Sizes

- 8' x 10'
- 10' x 12'
- 10' x 14'
- 10' x 16'
- 11'6" x 12'
- 11'6" x 14'
- 11'6" x 18'
- 11'6" x 20'
- 11'6" x 22'
- 11'6" x 24'

### Standard Features

- UL-752 Bulletproof Reinforced Concrete
- 3" Walls, 4" Roof, 6" Floor
- Weatherproof
- Concrete Gable Roof Optional
- 3'0" x 7'0" 18 Gauge Exterior Steel Door
- 3'0" x 6'8" Hollow Core Wood Interior Doors
- Interior Stud Walls
- R-18 Insulation with FRP Laminate Walls & Ceiling
- Electrical Panel
- Surface Mounted EMT Conduit
- 4' Fluorescent Light Fixtures with Switches
- Duplex Receptacles
- Vinyl Tile Flooring with Rubber Base Molding
- Choice of Exterior Texture & Color



**- Please contact AES for plans & pricing -**

Crane Rental for Offloading Available.  
 5 Year Limited Warranty

## AES Guard Houses



AES guard houses are delivered ready to occupy. Optional features include bulletproof windows & doors, HVAC, R-18 insulation, FRP walls & ceilings, data ports, stud wall partitions, vinyl tile flooring, cabinets, restrooms, lights and receptacles. There are numerous sizes & more options to choose from, and we deliver to your site. We also offer a Hurricane Tie-Down package that gives the building a 150+ mph wind resistance.

### Standard Sizes

- 6' x 10'
- 8' x 10'
- 10' x 10'
- 10' x 12'
- 10' x 14'
- 10' x 16'
- 10' x 18'
- 11'6" x 12'
- 11'6" x 14'
- 11'6" x 16'
- 11'6" x 18'
- 11'6" x 20'
- 11'6" x 22'
- 11'6" x 24'

### Standard Features

- UL-752 Bulletproof Reinforced Concrete
- 3" Walls, 4" Roof, 6" Floor
- Weatherproof
- Concrete Gable Roof Optional
- 3'0" x 7'0" 18 Gauge Exterior Steel Door
- Electrical Service Panel
- Surface Mounted EMT Conduit
- 4' Fluorescent Light Fixtures with Switches
- Duplex Receptacles
- Vinyl Tile Flooring with Rubber Base Molding
- Choice of Exterior Texture & Color



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## AES Storage Buildings



AES Storage Buildings are a great way to securely store anything, in any weather or environment. Our buildings are UL-752 bulletproof and are capable of 150+ MPH wind resistance. We can leave them unfinished or pre-install HVAC, ventilation, lighting and receptacles. We offer many sized doors and the exterior texture and color is up to you. Call today for a free quote.

### Standard Sizes

- |               |                       |
|---------------|-----------------------|
| • 8' x 8'     | • 11'6" x 18'         |
| • 8' x 10'    | • 11'6" x 20'         |
| • 8' x 12'    | • 11'6" x 22'         |
| • 10' x 10'   | • 11'6" x 24'         |
| • 10' x 12'   | • 11'6" x 28'         |
| • 10' x 16'   | • 11'6" x 40' (2 sec) |
| • 10' x 18'   | • 20' x 30' (3 sec)   |
| • 10' x 20'   | • 20' x 40' (4 sec)   |
| • 11'6" x 12' | • 20' x 50' (5 sec)   |
| • 11'6" x 16' | • 20' x 60' (6 sec)   |

### Standard Features

- UL-752 Bulletproof Reinforced Concrete
- 3" Walls, 4" Roof, 6" Floor
- 8' Interior
- AES Weatherproofing System
- Concrete Gable Roof Optional
- 3'0" x 7'0" 18 Gauge Steel Door with 16 Gauge Cast-in-Place Frame & All Hardware
- Passive Ventilation
- Choice of Exterior Texture & Color



**- Please contact AES for pricing -**

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 5 Year Limited Warranty



AES Precast Co, Inc.  
3851 17th St.  
Northport, AL 35476

www.AESPrecast.com  
800.342.3274  
Fax 205.333.0181

Email: Sales@AESPrecast.com

## Standard Options & Upgrades

In addition to the standard options for each facility, we also offer upgrades and optional equipment. If you would like an option not listed here, or need a custom sized building, call us and we will be happy to assist you.

Environmental		Electrical																				
<input type="checkbox"/> R-18 Insulation with Fiberglass Reinforced Plastic Laminate Walls & Ceiling <input type="checkbox"/> Heater, Forced Air 10,000 BTU <input type="checkbox"/> Comfort Radiant Heaters, Ceiling Mounted <input type="checkbox"/> A/C, Window Units <input type="checkbox"/> HVAC, .5 Ton Window Unit <input type="checkbox"/> HVAC, 1 Ton Wall Mount <input type="checkbox"/> HVAC, 2 Ton Wall Mount <input type="checkbox"/> HVAC, 3 Ton Wall Mount <input type="checkbox"/> HVAC, 4 Ton Wall Mount <input type="checkbox"/> HVAC, 5 Ton Wall Mount <input type="checkbox"/> HVAC, 7 Ton Wall Mount <input type="checkbox"/> 12" Ventilation Fan with Thermostat, Gravity Louver, Rain Hood & Screen <input type="checkbox"/> 16" Ventilation Fan with Thermostat, Gravity Louver, Rain Hood & Screen <input type="checkbox"/> 12" Solar Powered Ventilation Fan <input type="checkbox"/> 16" Solar Powered Ventilation Fan <input type="checkbox"/> Fire Alarm System <input type="checkbox"/> Fire Suppression System		<input type="checkbox"/> 100 Amp Service, <input type="checkbox"/> I Phase / <input type="checkbox"/> 3 Phase <input type="checkbox"/> 200 Amp Service, <input type="checkbox"/> I Phase / <input type="checkbox"/> 3 Phase <input type="checkbox"/> Stainless Steel Panel <input type="checkbox"/> EMT Surface Mounted Conduit <input type="checkbox"/> Rigid Surface Mounted Conduit <input type="checkbox"/> Duplex Receptacles, 120vac 20amp <input type="checkbox"/> Exterior Duplex Receptacles <input type="checkbox"/> 4' Fluorescent Light Fixtures, 40W, 2 Bulb <input type="checkbox"/> 300W Incandescent Light Fixtures <input type="checkbox"/> Ground Bars <input type="checkbox"/> Static Ground <input type="checkbox"/> 70W HPS Exterior Light Fixture with Photocell <input type="checkbox"/> Exit Signs with Emergency Lighting <input type="checkbox"/> Junction Box <input type="checkbox"/> Disconnect																				
		Mechanical																				
		<input type="checkbox"/> Cable Tray <input type="checkbox"/> Cable Entry Port	<input type="checkbox"/> Adjustable Shelving																			
Misc.		Ext. Wall Finish	Roof Finish / Type																			
<input type="checkbox"/> Vinyl Tile Flooring <input type="checkbox"/> Water Fountain <input type="checkbox"/> Unisex Restroom <input type="checkbox"/> Drop Ceiling (Acoustical Tile) <input type="checkbox"/> Eyewash Station <input type="checkbox"/> Cabinets	<input type="checkbox"/> Countertops <input type="checkbox"/> Skylights <input type="checkbox"/> Painted Plywood Walls <input type="checkbox"/> ADA Restroom <input type="checkbox"/> Storage Closet <input type="checkbox"/> Utility Blockouts	<input type="checkbox"/> Split-Faced Block <input type="checkbox"/> Brick <input type="checkbox"/> Smooth, Painted <input type="checkbox"/> Stucco <input type="checkbox"/> Vertical Wood Plank <input type="checkbox"/> Horizontal Wood Plank <input type="checkbox"/> Barn Board <input type="checkbox"/> Exposed Aggregate (std)	<input type="checkbox"/> Smooth <input type="checkbox"/> Simulated Raised Seam Metal <hr/> <input type="checkbox"/> Gable, 4/12 Pitch <input type="checkbox"/> Flat, 5" at Center, 4" at Edge																			
Hurricane Zone Options		Doors																				
<input type="checkbox"/> Hurricane Tie-Down Package, 150+ MPH Wind Resistance <input type="checkbox"/> 4" Walls (3" Standard) <input type="checkbox"/> Projectile Proof Doors <input type="checkbox"/> Projectile Proof Windows & Frames <input type="checkbox"/> 3' x 3' Roof Hatch		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Size</th> <th style="text-align: center;">Type</th> <th style="text-align: center;">Overhead</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> 3' x 7'</td> <td><input type="checkbox"/> 18 G. Steel</td> <td><input type="checkbox"/> 6' x 7'</td> </tr> <tr> <td><input type="checkbox"/> 4' x 7'</td> <td><input type="checkbox"/> 16 G. Steel</td> <td><input type="checkbox"/> 7' x 8'</td> </tr> <tr> <td><input type="checkbox"/> 6' x 7'</td> <td><input type="checkbox"/> Fiberglass</td> <td><input type="checkbox"/> 8' x 10'</td> </tr> <tr> <td><input type="checkbox"/> 3' x 8'</td> <td><input type="checkbox"/> Aluminum</td> <td><input type="checkbox"/> 8' x 12'</td> </tr> <tr> <td><input type="checkbox"/> 3' x 9'</td> <td><input type="checkbox"/> Bulletproof</td> <td></td> </tr> </tbody> </table>	Size	Type	Overhead	<input type="checkbox"/> 3' x 7'	<input type="checkbox"/> 18 G. Steel	<input type="checkbox"/> 6' x 7'	<input type="checkbox"/> 4' x 7'	<input type="checkbox"/> 16 G. Steel	<input type="checkbox"/> 7' x 8'	<input type="checkbox"/> 6' x 7'	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> 8' x 10'	<input type="checkbox"/> 3' x 8'	<input type="checkbox"/> Aluminum	<input type="checkbox"/> 8' x 12'	<input type="checkbox"/> 3' x 9'	<input type="checkbox"/> Bulletproof			
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AES Precast Co, Inc.  
 3851 17th St.  
 Northport, AL 35476

www.AESPrecast.com  
 800.342.3274  
 Fax 205.333.0181

Email: Sales@AESPrecast.com

## Hazardous Storage Options & Upgrades

In addition to the standard options for our hazardous storage buildings, we also offer upgrades and optional equipment. If you would like an option not listed here, or need a custom sized building, call us and we will be happy to assist you.

Environmental	Electrical																		
(Passive Ventilation Standard) <input type="checkbox"/> Heater, Explosion Proof, Forced Air 10,000 BTU <input type="checkbox"/> Explosion Proof A/C, Window Units <input type="checkbox"/> HVAC, Explosion Proof, .5 Ton Wall Mount <input type="checkbox"/> HVAC, Explosion Proof, 1 Ton Wall Mount <input type="checkbox"/> HVAC, Explosion Proof, 2 Ton Wall Mount <input type="checkbox"/> HVAC, Explosion Proof, 3 Ton Wall Mount <input type="checkbox"/> 12" Explosion Proof Ventilation Fan with Thermostat, Gravity Louver, Rain Hood & Screen <input type="checkbox"/> Fire Alarm System <input type="checkbox"/> Fire Suppression System <input type="checkbox"/> Epoxy Coated Walls & Ceiling <input type="checkbox"/> Explosion Relief Panels	<input type="checkbox"/> 100 Amp Exterior Panel <input type="checkbox"/> 200 Amp Exterior Panel <input type="checkbox"/> NEMA 4x SS Panel <input type="checkbox"/> Rigid Surface Mounted Conduit <input type="checkbox"/> PVC Surface Mounted Conduit <input type="checkbox"/> 4' Explosion Proof Fluorescent Light Fixtures, 40W, 2 Bulb <input type="checkbox"/> 100W Incandescent Explosion Proof Light Fixtures <input type="checkbox"/> Ground Bars <input type="checkbox"/> Halo Grounding <input type="checkbox"/> 70W HPS Exterior Light Fixture with Photocell <input type="checkbox"/> Explosion Proof Duplex Receptacles <input type="checkbox"/> Exterior Duplex Receptacles																		
Flooring	Mechanical	Misc.																	
(Steel Floor Grating Standard) <input type="checkbox"/> Fiberglass Floor Grating <input type="checkbox"/> Heavyweight Fiberglass Floor Grating <input type="checkbox"/> Heavyweight Steel Floor Grating	<input type="checkbox"/> Motor Operated Louvers <input type="checkbox"/> Door Panic Hardware <input type="checkbox"/> Shelving	<input type="checkbox"/> Eyewash Station <input type="checkbox"/> Emergency Shower <input type="checkbox"/> Flammable Cabinet																	
<b style="text-align: center;">Hurricane Zone Options</b>  <input type="checkbox"/> Hurricane Tie-Down Package, 150+ MPH Wind Resistance <input type="checkbox"/> 4" Walls (3" Standard) <input type="checkbox"/> Projectile Proof Doors <input type="checkbox"/> Projectile Proof Windows & Frames <input type="checkbox"/> 3' x 3' Roof Hatch	Ext. Wall Finish	Roof Finish / Type																	
	<input type="checkbox"/> Exposed Aggregate <input type="checkbox"/> Split-Faced Block <input type="checkbox"/> Brick <input type="checkbox"/> Smooth, Painted <input type="checkbox"/> Stucco <input type="checkbox"/> Vertical Wood Plank <input type="checkbox"/> Horizontal Wood Plank <input type="checkbox"/> Stacked Stone	<input type="checkbox"/> Smooth <input type="checkbox"/> Raised Seam Metal  <input type="checkbox"/> Gable, 4/12 Pitch <input type="checkbox"/> Flat, 6" at Center, 4" at Edge																	
	Doors																		
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; border-bottom: 1px solid black;">Size</th> <th style="text-align: center; border-bottom: 1px solid black;">Type</th> <th style="text-align: center; border-bottom: 1px solid black;">Overhead</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> 3' x 7'</td> <td><input type="checkbox"/> 18 G. Steel</td> <td><input type="checkbox"/> 6' x 7'</td> </tr> <tr> <td><input type="checkbox"/> 4' x 7'</td> <td><input type="checkbox"/> 16 G. Steel</td> <td><input type="checkbox"/> 7' x 8'</td> </tr> <tr> <td><input type="checkbox"/> 6' x 7'</td> <td><input type="checkbox"/> Fiberglass</td> <td><input type="checkbox"/> 8' x 10'</td> </tr> <tr> <td><input type="checkbox"/> 3' x 8'</td> <td><input type="checkbox"/> Aluminum</td> <td><input type="checkbox"/> 8' x 12'</td> </tr> <tr> <td><input type="checkbox"/> 3' x 9'</td> <td><input type="checkbox"/> Bulletproof</td> <td></td> </tr> </tbody> </table>	Size	Type	Overhead	<input type="checkbox"/> 3' x 7'	<input type="checkbox"/> 18 G. Steel	<input type="checkbox"/> 6' x 7'	<input type="checkbox"/> 4' x 7'	<input type="checkbox"/> 16 G. Steel	<input type="checkbox"/> 7' x 8'	<input type="checkbox"/> 6' x 7'	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> 8' x 10'	<input type="checkbox"/> 3' x 8'	<input type="checkbox"/> Aluminum	<input type="checkbox"/> 8' x 12'	<input type="checkbox"/> 3' x 9'	<input type="checkbox"/> Bulletproof	
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<input type="checkbox"/> 3' x 9'	<input type="checkbox"/> Bulletproof																		

## Restroom / Shower Options & Upgrades

In addition to the standard options for each facility, we also offer upgrades and optional equipment. If you would like an option not listed here, or need a custom sized restroom, call us and we will be happy to assist you.

Hardware	Electrical	
<input type="checkbox"/> Stainless Steel Water Closets <input type="checkbox"/> Stainless Steel Urinals <input type="checkbox"/> Stainless Steel Sinks <input type="checkbox"/> Stainless Steel Partitions <input type="checkbox"/> Stainless Steel Mirrors <input type="checkbox"/> Stainless Steel Trash Cans, Wall Mounted <input type="checkbox"/> Stainless Steel Trash Can / Towel Dispenser <input type="checkbox"/> Waterless Urinals <input type="checkbox"/> Solid Plastic Partitions <input type="checkbox"/> Fiberboard Partitions <input type="checkbox"/> Concealed Flush Valves <input type="checkbox"/> Automatic Flush Valves <input type="checkbox"/> Automatic Faucets <input type="checkbox"/> 40 Gallon Water Heater <input type="checkbox"/> 80 Gallon Water Heater <input type="checkbox"/> Large Tankless Water Heater (Showers) <input type="checkbox"/> Small Tankless Water Heater (Sinks) <input type="checkbox"/> Retractable Changing Tables <input type="checkbox"/> Water Fountain <input type="checkbox"/> Dual Water Fountains <input type="checkbox"/> Water Fountain with Jug Filler <input type="checkbox"/> Skylights (1' x 2' Opaque Lexan), Qty ____ <input type="checkbox"/> Interior Hose Bib <input type="checkbox"/> Exterior Hose Bib <input type="checkbox"/> R-18 Insulation with Fiberglass Reinforced Plastic Laminate Walls & Ceiling <input type="checkbox"/> PVC Non-Slip Flooring <input type="checkbox"/> Exit Signs with Emergency Lighting <input type="checkbox"/> Lockers, Qty ____ <input type="checkbox"/> Floor Drains <input type="checkbox"/> Diaper Changing Stations	<input type="checkbox"/> Exterior Light Fixtures with Photocells, Qty ____ <input type="checkbox"/> Chase Heater, Forced Air 10,000 BTU <input type="checkbox"/> Comfort Radiant Heaters, Ceiling Mounted <input type="checkbox"/> A/C, Window Units <input type="checkbox"/> HVAC, 1 Ton Wall Mount <input type="checkbox"/> HVAC, 3 Ton Wall Mount <input type="checkbox"/> 12" Solar Powered Ventilation Fan <input type="checkbox"/> 16" Solar Powered Ventilation Fan <input type="checkbox"/> Electric Hand Dryers <input type="checkbox"/> Duplex Receptacles, Qty ____ <input type="checkbox"/> Exterior Duplex Receptacles, Qty ____	
	Structural	
<b>Hurricane Zone Options</b> <input type="checkbox"/> Hurricane Tie-Down Package, 150+ MPH Wind Resistance <input type="checkbox"/> 4" Walls (3" Standard) <input type="checkbox"/> Projectile Proof Doors <input type="checkbox"/> Projectile Proof Windows & Frames	<input type="checkbox"/> Concrete Privacy Wall (Front Porch) <input type="checkbox"/> Floor Drains <input type="checkbox"/> Concrete Shower Partitions <input type="checkbox"/> Tile Flooring (Serving Areas)	
	Ext. Wall Finish	Roof Finish / Type
	<input type="checkbox"/> Split-Faced Block <input type="checkbox"/> Brick <input type="checkbox"/> Smooth, Painted <input type="checkbox"/> Stucco <input type="checkbox"/> Vertical Wood Plank <input type="checkbox"/> Horizontal Wood Plank <input type="checkbox"/> Barn Board <input type="checkbox"/> Exposed Aggregate	<input type="checkbox"/> Smooth <input type="checkbox"/> Simulated Raised Seam Metal <input type="checkbox"/> Gable, 4/12 Pitch <input type="checkbox"/> Flat, 5" at Center, 4" at Edge
	Doors	
	<input type="checkbox"/> 3' x 7' Fiberglass (Corrosion Proof) <input type="checkbox"/> 3' x 7' Aluminum (Corrosion Proof) <input type="checkbox"/> 3' x 7' Bulletproof Steel <input type="checkbox"/> 3' x 7' Steel, Half Glass <input type="checkbox"/> 4' x 7' Steel	<b>ADA</b> <input type="checkbox"/> Required <input type="checkbox"/> Preferred <input type="checkbox"/> Not Required

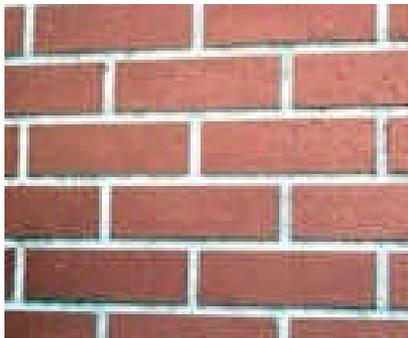
## SAMPLE EXTERIOR FINISHES



EXPOSED AGGREGATE



ARCHITECTURAL SPLIT-FACED BLOCK



BRICK



FLUTED RIB



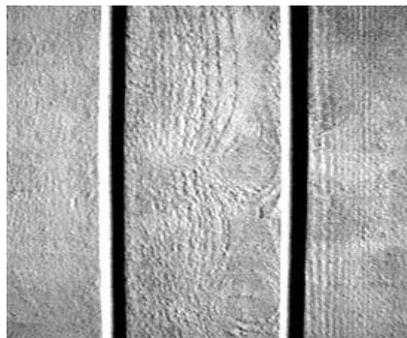
SMOOTH TROWEL, PAINTED



FRACTURED RIB

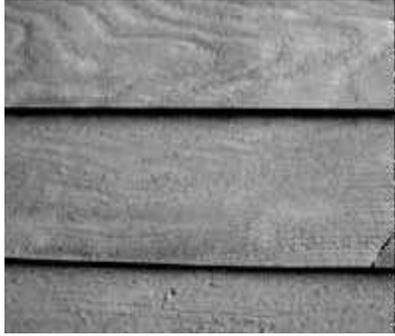


SKIP TROWEL STUCCO

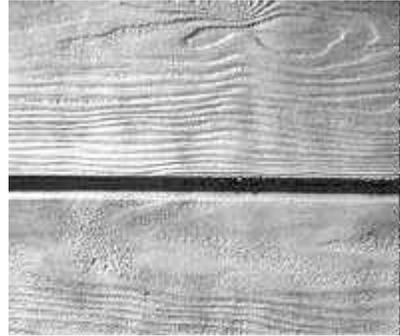


VERTICAL PLANK

## SAMPLE EXTERIOR FINISHES



SHIP LAP



HORIZONTAL PLANK



BARN BOARD



MARYLAND ASHLAR STONE



ROOF DETAIL  
SIMULATED RAISED SEAM METAL

# STANDARD PRE-ASSEMBLED PRECAST CONCRETE BUILDING

## PART 1 - GENERAL

### 1.01 SUMMARY

Building to be delivered and placed on owner's prepared foundation in accordance with manufacture's recommendations (PART 3). Precast building to be manufactured by AES PRECAST CO, INC (3851 17<sup>th</sup> Street, Northport, AL 35476, 1-800-342-3274, GSA #GS-07F-0331L), or approved equal. Building to be provided by manufacturer with all necessary openings as specified by contractor in conformance with manufacturer's structural requirements.

### 1.02 QUALITY ASSURANCE

- A. ACI-318-2002, "Building Code Requirements for Reinforced Concrete". Concrete Reinforcing Institute, "Manual of Standard Practice".
- B. ANSI/ASCE-7-02 "Building Code Requirements for Minimum Design Loads in Buildings and Other Structures".
- C. Florida Building Code – 2004.
- D. UL-752 Test Method Level Four (4) for Bullet Resistance certified by an Independent Structural Engineer.
- E. Concrete Reinforcing Institute, "Manual of Standard Practice".
- F. Building fabricator must have a minimum of 5-years experience manufacturing and setting transportable precast concrete buildings.
- G. PCI Design Handbook – 6<sup>th</sup> Edition.
- H. International Building Code – 2003.
- I. National Electrical Code – 2005.
- J. Manual of Steel Construction – LRFD AISC – 3<sup>rd</sup> Edition.
- K. Manual of Steel Construction – ASD AISC – 9<sup>th</sup> Edition.

### 1.03 DIMENSIONS & DESIGN LOADS

- A. Walls are 4” Thick; Floor is 6” Thick; Roof is 4” at edge and 6” at center, giving a 2” slope from center to edge.
- B. Design Loads:
  - 1. Seismic load performance category 'C', Exposure Group III
  - 2. Standard Live Roof Load - 60 PSF
  - 3. Standard Floor Load - 250 PSF
  - 4. Standard Wind Loading - 140 MPH (150 MPH with Hurricane Tie-Down Package)

- C. **Roof: (Flat) Roof panel shall slope 2" from center to sides. (Gable) Roof panel shall have a 4/12 slope. The roof shall extend a minimum of 2 1/2" beyond the wall panel on each side.**
- D. **Roof, floor and wall panels single component monolithic panels. No roof, floor, or vertical wall joints will be allowed, except at corners. Wall panels shall set on top of floor panel.**

## **PART 2 - PRODUCTS**

### **2.01 MATERIALS**

- A. **Concrete: Steel-reinforced, polypropylene fiber reinforced, 5000 PSI minimum 28-day compressive strength, air-entrained (ASTM C260).**
- B. **Reinforcing Steel: ASTM A615, grade 60 unless otherwise indicated.**
- C. **Reinforcing Fiber: Polypropylene fiber, Fibermesh @ 1.5 pounds per cubic yard.**
- D. **Caulking: All joints between panels shall be caulked on the exterior and interior surface of the joints. Caulking shall be SIKAFLEX-1A elastic sealant or equal.**
- E. **Panel Connections: All panels shall be securely welded together with 1/4" thick steel brackets. Steel is to be of structural quality, hot-rolled carbon complying with ASTM A283, Grade C. Cast-in anchors used for panel connections to be Dayton-Superior #F-63, or equal.**

### **2.03 FINISHES**

- A. **Interior of Building:**
- B. **Exterior of Building: Exposed Aggregate with clear coat. Trim smooth with 'tan' paint.**
- C. **Roof to have smooth trowel finish, sealed with Hydro-Stop liquid sealant, white.**

## **PART 3 - EXECUTION**

### **3.01 SITE PREPARATION (Standard Pre-assembled Building)**

- A. **AES Precast Building shall bear fully on a crushed stone base that is at least one foot larger than the length and width of building.**
- B. **Stone shall be a minimum of 4" thick or down to firm subgrade. Substrate below stone must have a vertical soil capacity of 1,500 pounds per square foot. Stone shall be 3/8" or smaller and placed within a perimeter form with flat and level top edge for screeding, such as concrete curbing, railroad ties, or compacted earth.**
- C. **Stone must be screeded to level within 1/4" in both directions. Forming material shall remain around stone after the building is set.**
- D. **The crushed stone base shall be kept within the confines of the soil or perimeter form. Do not allow the stone base to become unconfined so that it may wash, erode or otherwise be undermined.**

*OR*

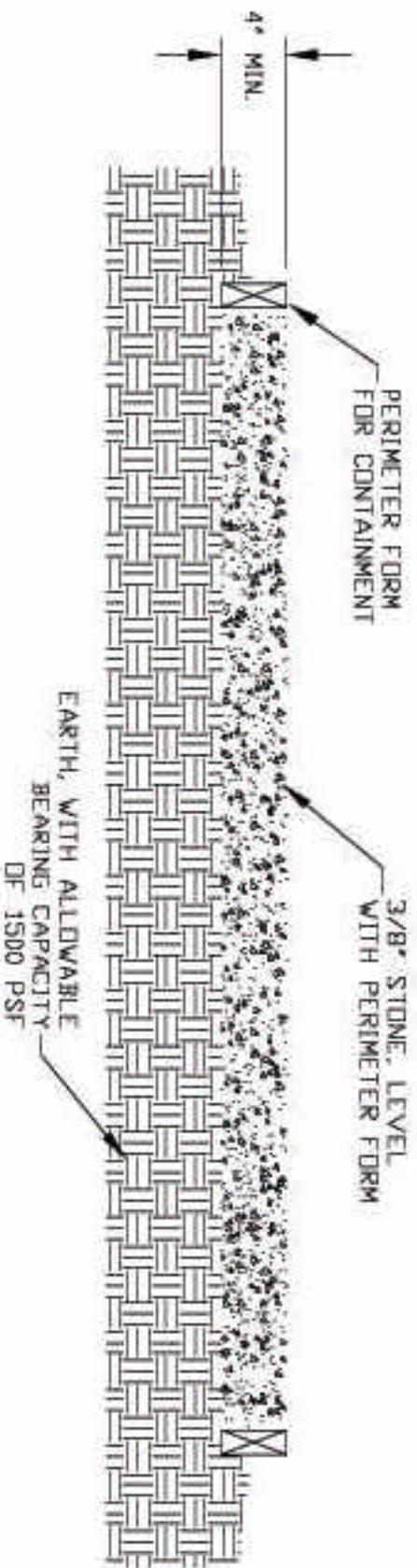
### **3.02 SITE PREPARATION (Standard, Floorless Pump House, and Multi-Part Expanded Pre-assembled Building) \*\*\***

- A. AES Precast Building shall bear fully on pavement or concrete slab that has length and width equal to or greater than that of the floor of the building.**
- B. Substrate below pavement or slab must have a vertical soil capacity of 1,500 pounds per square foot, and covered with 6 mil vapor barrier. Concrete slab should be poured 4" thick with 12" turnaround footing on all sides, using 3,000 PSI concrete, and reinforced with W4 x W4 – 4" x 4" wire mesh.**
- C. Pad or slab should be level to 1/8" in all directions.**
- D. Provide positive drainage for the pad or slab as required.**

**\*\*\* Site Preparation 3.02 must be followed for all Pump House and Expanded Pre-assembled Buildings.**

### **3.03 ACCESS**

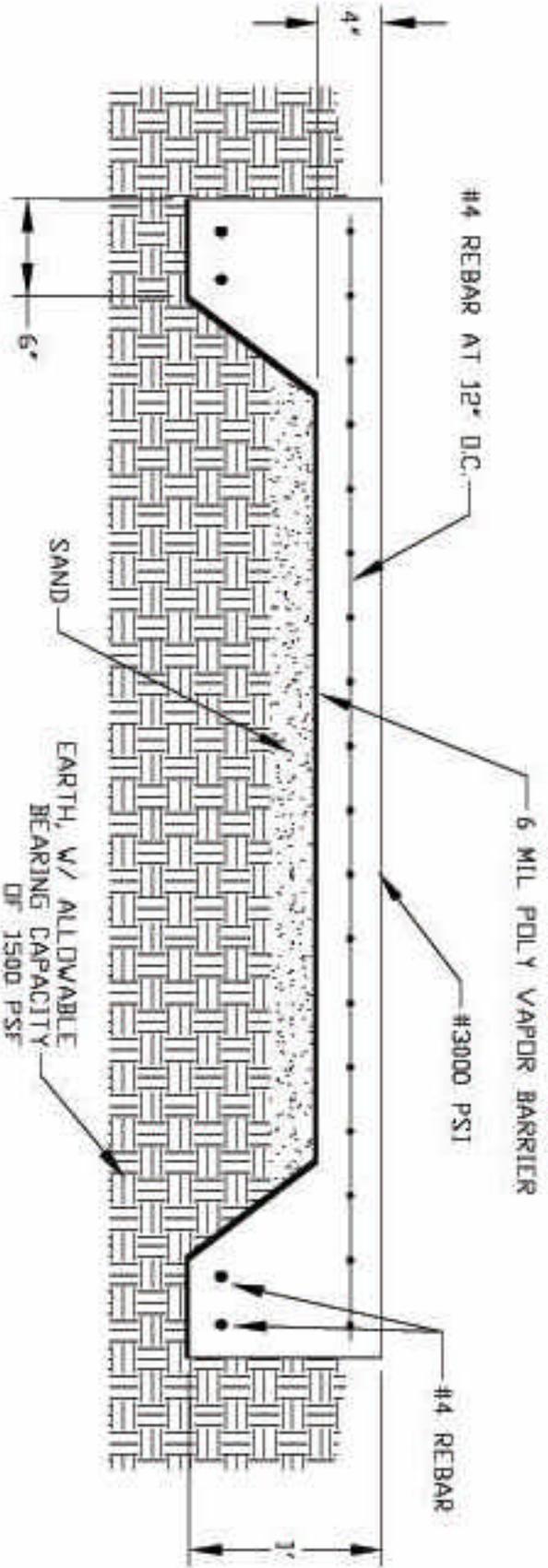
- A. Purchaser must provide level unobstructed area large enough for crane and tractor trailer to park adjacent to pad. Crane must be able to place outriggers within 3'-0" of edge of pad and truck and crane must be able to get side-by-side under their own power. No overhead lines may be within 75' radius of center of pad. Firm roadbed with turns that allow 65' lowbed tractor and trailer must be provided directly to site. No building shall be placed closer than 2'-0" to an existing structure.**



RECOMMENDED SITE /  
 FOUNDATION PREPARATION  
 (CRUSHED STONE BASE)

<b>ABS PRECAST CO., INC.</b>			
LOCATION:	REV:	SCALE:	
DRAWN BY:	DATE:	DATE:	

CONCRETE PAD FOR USE WITH HURRICANE TIE-DOWN PACKAGE, FLOORLESS BUILDING AND/OR MULTI-PART BUILDING.



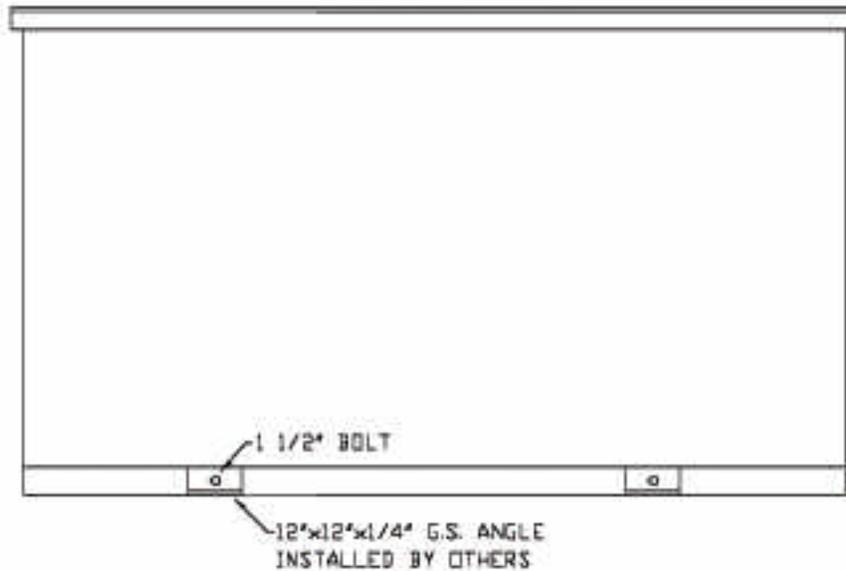
RECOMMENDED SITE /  
FOUNDATION PREPARATION  
(CONCRETE SLAB)

**AES PRECAST CO., INC.**

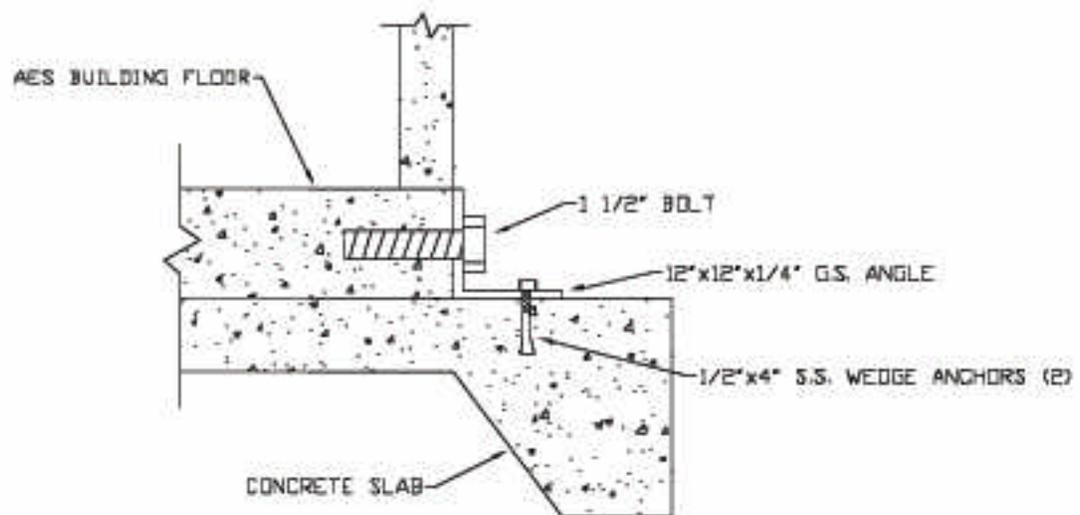
LOCATION	NEW	SIGNATURE
DATE		DATE

# HURRICANE TIE-DOWN SCHEMATIC

ANGLE PLATES, LIFTING BOLTS AND ANCHOR BOLTS INCLUDED IN PACKAGE. MUST BE USED WITH CONCRETE SLAB.



SIDE VIEW

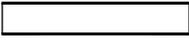
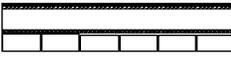
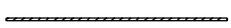
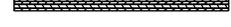
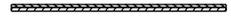
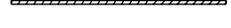
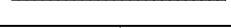


CROSS SECTION

**AES PRECAST CO., INC.**

LOCATION:	PLUM ISLAND, NY	
DRAWN BY:	KRW	SCALE: DRAWING NOT TO SCALE
DATE:	08-12-04	DWG NO. 3 of 3

**SECTION B - 2x4 BOARD MISSILES OF VARIOUS WEIGHTS**

Target Name	Target Description	Missile Description	Missile Weight (lbf)	Missile Speed (MPH)	Missile Momentum (lbf-s)	Missile Energy (ft-lbf)	Damage Description	Reference
<b>B2 - REINFORCED CONCRETE SLABS</b>								
4 in. thick reinforced concrete; #3 rebar at 6 inch o.c. each way in the middle of the slab		2 x 4 Board	13.5	121.0	74	6602	No damage; the missile was reduced to splinters	TTU (1989)
4 in. thick reinforced concrete; #3 rebar at 6 inch o.c. each way in the middle of the slab		2 x 4 Board	14	147.0	94	10105	Hairline cracks on the back face; missile was reduced to splinters	TTU (1989)
4 in. thick concrete - NO Reinforcement		2 x 4 Board	14.25	122.0	79	7085	No penetration, 0.24 in vertical crack propagated through the panel	TTU (1989)
6 in. thick reinforced concrete; #3 rebar at 6 inch o.c. each way in the middle of the slab		2 x 4 Board	13.75	140.0	88	9002	No damage; the missile was reduced to splinters	TTU (1989)
<b>B3 - BRICK VENEER WALLS</b>								
Brick veneer wall with 1/2-in. insulation board and 1/2 in. gypsum wallboard.		2 x 4 Board	12.5	120.0	68	6012	The missile penetrated the target and the brick veneer crushed into small pieces. The backside wallboard remained intact.	Bailey (1984)
<b>B4 - PLYWOOD LAYERS</b>								
1 layer of 3/4 inch Plywood		2 x 4 Board	14	48.4 - 54.2	31 - 35	1095 - 1374	Interior deformation - Total Failure	Robbins (1995)
2 layers of 3/4 inch Plywood		2 x 4 Board	14	63.0 - 66.9	40 - 43	1856 - 2093	Interior deformation - Total Failure	Robbins (1995)
3 layers of 3/4 inch Plywood		2 x 4 Board	14	76.6 - 84.5	49 - 54	2744 - 3339	Interior deformation - Total Failure	Robbins (1995)
4 layers of 3/4 inch Plywood		2 x 4 Board	14	110.2 - 120.8	70 - 77	5679 - 6824	Interior deformation - Total Failure	Robbins (1995)
<b>B5 - OSB LAYERS</b>								
1 layer of 3/4 inch OSB		2 x 4 Board	14	NA	NA	NA	No lower bound could be established	Robbins (1995)
2 layers of 3/4 inch OSB		2 x 4 Board	14	NA	NA	NA	No lower bound could be established	Robbins (1995)
3 layers of 3/4 inch OSB		2 x 4 Board	14	62.3 - 67.4	40 - 43	1815 - 2124	Interior deformation - Total Failure	Robbins (1995)
4 layers of 3/4 inch OSB		2 x 4 Board	14	74.3 - 90.9	47 - 58	2582 - 3864	Interior deformation - Total Failure	Robbins (1995)



Missile Direction

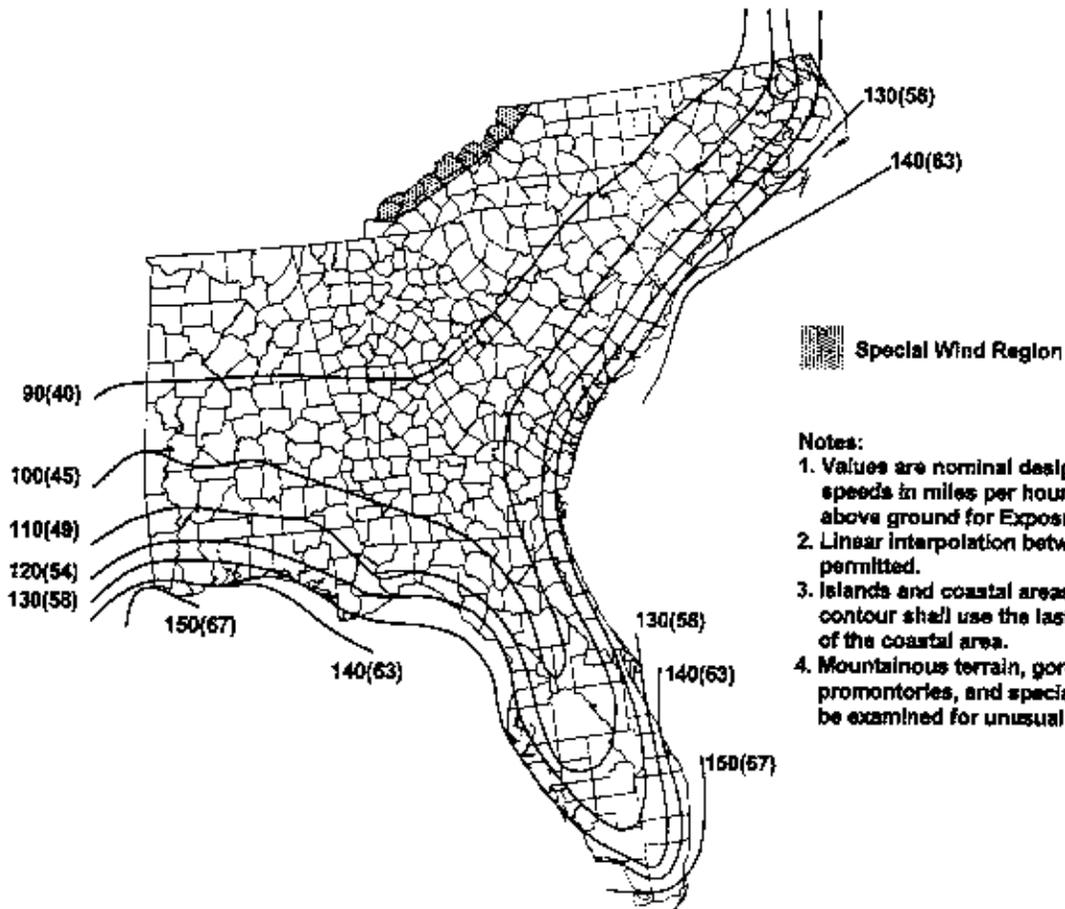


FIGURE 1609—continued  
 BASIC WIND SPEED (3-SECOND GUST)  
 EASTERN GULF OF MEXICO AND SOUTHEASTERN U.S. HURRICANE COASTLINE



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