SECTION 07 21 00

EXPANDED POLYSTYRENE INSULATION

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\*\* NOTE TO SPECIFIER \*\* Shelter Enterprises, Inc.; expanded polystyrene building products.  
This section is based on the products of Shelter Enterprises, Inc., which is located at:  
8 Saratoga St.  
Cohoes, NY 12047  
Toll Free Tel: 800-836-0719  
Tel: 518-237-4100  
Fax: 518-237-0125  
Email: [request info (jhalek@shelter-ent.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Shelter+Enterprises,+Inc.&coid=38839&rep=&fax=518-237-0125&message=RE:%20Spec%20Question%20(07210she):%20%20&mf=)  
Web: <http://www.shelter-ent.com>   
 [ [Click Here](https://www.arcat.com/arcatcos/cos38/arc38839.html) ] for additional information.  
Ever since Shelter Enterprises Inc. developed the original Shelterwrap over thirty-five years ago, millions of homeowners and businesses across America have cut their energy consumption and lowered their energy bills. As a recognized innovator in the building products industry, Shelter Enterprises, Inc. continually strives to develop new products for this century and beyond for residential, commercial, and civil markets. We look forward to being challenged to meet or exceed your needs and the needs of your clients and projects.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete types not required.

* + 1. Expanded polystyrene (EPS) products including:
       1. Architectural EPS.
       2. Underlayment and Sheathing EPS.
       3. Ventilation and Sealing EPS.
       4. Roofing EPS.
       5. Concrete Products and Forming EPS.
       6. Packaging and Special Shapes EPS.
    2. Graphite enhanced polystyrene foam.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 03 30 00 - Cast-in-Place Concrete.
    2. Section 05 40 00 - Cold-Formed Metal Framing.
    3. Section 06 10 00 - Rough Carpentry.
    4. Section 07 20 00 - Thermal Protection.
    5. Section 07 24 00 - Exterior Insulation and Finish Systems.
    6. Section 07 62 00 - Sheet Metal Flashing and Trim.
    7. Division 07 - Roofing Systems.
    8. Division 08 - Doors and Windows.
    9. Section 09 22 16 - Non-Structural Metal Framing.
    10. Section 09 21 16.33 - Gypsum Board Area Separation Wall Assemblies.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
       2. ASTM D6817 - Standard Specification for Rigid Cellular Polystyrene Geofoam.
       3. ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Submit manufacturer's product data and technical bulletins including materials, profiles, physical properties, and accessories for each product to be used, including:
        1. Shipment information.
        2. Manufacturing materials and additives.
        3. Preparation instructions and recommendations.
        4. Storage and handling requirements and recommendations.
        5. Installation methods.
     3. Shop Drawings: Include the following:
        1. Project specific layouts, details, profiles and components.
     4. Test Reports: Submit summary of tests that products comply with specified performance requirements.

\*\* NOTE TO SPECIFIER \*\* Delete below if sustainable design documentation or LEED is not required.

* + 1. Sustainable Design Submittals:
       1. Recycled Content: Submit documentation of pre-consumer and post-consumer recycled content including manufacturing process recovery of recycled materials.
       2. Regional Materials: Submit documentation of manufacturing plant location relative to project location if less than 500 miles (800 km).
    2. Qualification Data: Submit manufacturer and installer qualifications.
    3. Warranty.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Minimum 5 years experience manufacturing similar products.
     2. Installer Qualifications: Minimum 2 years experience installing similar products of the scope and complexity required for this project.
     3. Pre-Installation Meeting: Convene at the project site a minimum of two weeks prior to starting work of this section to verify project requirements, substrate conditions, installation instructions and manufacturer's warranty requirements.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
     2. Deliver products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
     3. Store and handle materials in accordance with the manufacturers instructions to avoid damage.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

\*\* NOTE TO SPECIFIER \*\* Delete below if warranty is not required.

* 1. WARRANTY
     1. Warranty: Manufacturer's standard warranty that products will maintain performance values.
        1. Warranty Period: Ten years.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Shelter Enterprises, Inc., which is located at: 8 Saratoga St.; Cohoes, NY 12047; Toll Free Tel: 800-836-0719; Tel: 518-237-4100; Fax: 518-237-0125; Email: [request info (jhalek@shelter-ent.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Shelter+Enterprises,+Inc.&coid=38839&rep=&fax=518-237-0125&message=RE:%20Spec%20Question%20(07210she):%20%20&mf=); Web: <http://www.shelter-ent.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. MATERIALS
     1. Expanded Polystyrene Insulation (EPS): Closed cell, light-weight, resilient foamed plastic composed of hydrogen and carbon atoms with a compressive strength between 10 and 60 psi. Advantages include long term thermal insulating value and moisture resistance.
        1. Finish: EPS may be painted with water based acrylic paint or similar products that do not contain solvents.

\*\* NOTE TO SPECIFIER \*\* Delete below if architectural EPS is not required.

* 1. ARCHITECTURAL EPS INSULATION

\*\* NOTE TO SPECIFIER \*\* Shelter Enterprises sells authorized EPS EIFS to Parex, Sto Corporation, Finestone, Masterwall, Senergy, Sonowall, Energex, Generic and can work with EIFS manufacturers as required. Product allows addition of architectural moldings, cornices, window and door trims, keystones, sills, bands, columns, pilasters and other decorative details and shapes, see Architectural EPS paragraph below. Delete if not required.

* + 1. EIFS Extruded Polystyrene Insulation (EPS): Provide products manufactured by Shelter Enterprises Inc. Provide for exterior wall cladding system in locations and configurations as shown on the drawings, and to meet the following properties:

\*\* NOTE TO SPECIFIER \*\* Select types to be used. Delete types not required.

* + - 1. Typical EIFS R Values:
         1. 1 inch EIFS at 40 deg. F: 4.17.
         2. 1 inch EIFS at 75 deg. F: 3.85.

\*\* NOTE TO SPECIFIER \*\* Select drainage or standard, drainage recommended. Delete not required.

* + - 1. Type: Standard.
      2. Type: Drainage.
      3. Dimensions: As shown on the drawings.
      4. Independent third party tested and approved.
      5. Contains no ozone depleting CFCs.

\*\* NOTE TO SPECIFIER \*\* Cornices are available in a wide variety of profiles and dimensions, custom sizes are available. Refer to the manufacturer's website for drawings of each cornice. Delete if not required.

* + 1. Architectural EPS Cornices: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-1 Cornices. Standard Size: 13-3/4 inch wide by 18 inch high. Minimum Size: 1-3/4 inch wide by 2-3/8 inch high. Maximum Size: 34-3/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-1 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-2 Cornices. Standard Size: 12 inch wide by 24 inch high. Minimum Size: 2 inch wide by 4 inch high. Maximum Size: 22-1/2 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-2 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-3 Cornices. Standard Size: 12-3/4 inch wide by 21 inch high. Minimum Size: 1-9/16 inch wide by 2-5/8 inch high. Maximum Size: 27-3/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-3 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-4 Cornices. Standard Size: 12-5/8 inch wide by 20 inch high. Minimum Size: 8-1/2 inch wide by 13-1/2 inch high. Maximum Size: 28-3/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-4 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-5 Cornices. Standard Size: 6 inch wide by 16 inch high. Minimum Size: 1-1/2 inch wide by 4 inch high. Maximum Size: 16-7/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-5 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-6 Cornices. Standard Size: 12 inch wide by 18 inch high. Minimum Size: 1 inch wide by 1-9/16 inch high. Maximum Size: 30 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-6 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-7 Cornices. Standard Size: 12 inch wide by 12 inch high. Minimum Size: 5-3/8 inch wide by 5-3/8 inch high. Maximum Size: 36 inch wide by 36 inch high. Delete if not required.

* + - 1. SEI-C-7 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-8 Cornices. Standard Size: 8 inch wide by 13 inch high. Minimum Size: 2-5/8 inch wide by 4-3/8 inch high. Maximum Size: 27-5/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-8 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-9 Cornices. Standard Size: 8 inch wide by 12 inch high. Minimum Size: 4 inch wide by 6 inch high. Maximum Size: 30 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-9 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-10 Cornices. Standard Size: 7 inch wide by 10 inch high. Minimum Size: 1-5/8 inch wide by 2-3/8 inch high. Maximum Size: 31-1/2 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-10 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-11 Cornices. Standard Size: 7-1/4 inch wide by 9 inch high. Minimum Size: 7-1/4 inch wide by 9 inch high. Maximum Size: 35 inch wide by 43-7/16 inch high. Delete if not required.

* + - 1. SEI-C-11 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-12 Cornices. Standard Size: 7-1/4 inch wide by 16-1/2 inch high. Minimum Size: 1-3/16 inch wide by 4-1/8 inch high. Maximum Size: 19-3/4 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-12 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-13 Cornices. Standard Size: 8 inch wide by 23-1/2 inch high. Minimum Size: 2 inch wide by 5-7/8 inch high. Maximum Size: 15-5/16 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-13 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-14 Cornices. Standard Size: 16 inch wide by 16 inch high. Minimum Size: 4 inch wide by 4 inch high. Maximum Size: 35 inch wide by 35 inch high. Delete if not required.

* + - 1. SEI-C-14 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-15 Cornices. Standard Size: 16 inch wide by 16 inch high. Minimum Size: 3-3/8 inch wide by 3-3/8inch high. Maximum Size: 35 inch wide by 35 inch high. Delete if not required.

* + - 1. SEI-C-15 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-16 Cornices. Standard Size: 8-1/4 inch wide by 9-5/8 inch high. Minimum Size: 4-1/8 inch wide by 4-13/16 inch high. Maximum Size: 35 inch wide by 40-7/8 inch high. Delete if not required.

* + - 1. SEI-C-16 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-17 Cornices. Standard Size: 7 inch wide by 12 inch high. Minimum Size: 13/16 inch wide by 1-3/16 inch high. Maximum Size: 26-1/4 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-17 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-18 Cornices. Standard Size: 6-1/2 inch wide by 12 inch high. Minimum Size: 1-5/8 inch wide by 4 inch high. Maximum Size: 24-3/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-18 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-19 Cornices. Standard Size: 15 inch wide by 17-1/4 inch high. Minimum Size: 7-1/2 inch wide by 8-5/8 inch high. Maximum Size: 35 inch wide by 40-1/4 inch high. Delete if not required.

* + - 1. SEI-C-19 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-20 Cornices. Standard Size: 4-1/2 inch wide by 7-1/2 inch high. Minimum Size: 1-1/8 inch wide by 1-7/8 inch high. Maximum Size: 27 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-20 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-21 Cornices. Standard Size: 3 inch wide by 5-1/4 inch high. Minimum Size: 1 inch wide by 1-3/4 inch high. Maximum Size: 25-11/16 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-21 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-22 Cornices. Standard Size: 8 inch wide by 14 inch high. Minimum Size: 2 inch wide by 3-1/2 inch high. Maximum Size: 25-11/16 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-22 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-C-23 Cornices. Standard Size: 6 inch wide by 10 inch high. Minimum Size: 1-1/2 inch wide by 2-1/2 inch high. Maximum Size: 27 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-C-23 Cornices:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Moldings are available in a wide variety of profiles and dimensions, custom sizes are available. Refer to the manufacturer's website for drawings of each cornice. Delete if not required.

* + 1. Architectural EPS Moldings: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-1 Moldings. Standard Size: 7 inch wide by 6 inch high. Minimum Size: 1-3/4 inch wide by 1-1/2 inch high. Maximum Size: 40-13/16 inch wide by 35 inch high. Delete if not required.

* + - 1. SEI-M-1 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-2 Moldings. Standard Size: 6 inch wide by 6 inch high. Minimum Size: 1-1/8 inch wide by 1-1/8 inch high. Maximum Size: 35 inch wide by 35 inch high. Delete if not required.

* + - 1. SEI-M-2 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-3 Moldings. Standard Size: 7 inch wide by 6-1/2 inch high. Minimum Size: 1-1/8 inch wide by 1-1/8 inch high. Maximum Size: 35 inch wide by 35 inch high. Delete if not required.

* + - 1. SEI-M-3 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-4 Moldings. Standard Size: 4 inch wide by 9 inch high. Minimum Size: 3-3/16 inch wide by 7-3/16 inch high. Maximum Size: 20 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-4 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-5 Moldings. Standard Size: 6 inch wide by 12 inch high. Minimum Size: 4-7/8 inch wide by 9-5/8 inch high. Maximum Size: 22-1/2 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-5 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-6 Moldings. Standard Size: 5 inch wide by 7 inch high. Minimum Size: 2-1/2 inch wide by 3-1/2 inch high. Maximum Size: 32-1/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-6 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-7 Moldings. Standard Size: 6 inch wide by 8 inch high. Minimum Size: 2 inch wide by 4 inch high. Maximum Size: 33-3/4 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-7 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-8 Moldings. Standard Size: 5 inch wide by 12 inch high. Minimum Size: 2-13/16 inch wide by 6-13/16 inch high. Maximum Size: 18-3/4 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-8 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-9 Moldings. Standard Size: 6-5/8 inch wide by 7-7/8 inch high. Minimum Size: 1-5/8 inch wide by 1-15/16 inch high. Maximum Size: 35 inch wide by 41-9/16 inch high. Delete if not required.

* + - 1. SEI-M-9 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-10 Moldings. Standard Size: 7-1/4 inch wide by 14-5/8 inch high. Minimum Size: 1-5/8 inch wide by 1-15/16 inch high. Maximum Size: 35 inch wide by 41-9/16 inch high. Delete if not required.

* + - 1. SEI-M-10 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-11 Moldings. Standard Size: 5 inch wide by 9 inch high. Minimum Size: 2-1/2 inch wide by 4-1/2 inch high. Maximum Size: 25 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-11 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-12 Moldings. Standard Size: 5-3/4 inch wide by 10-1/2 inch high. Minimum Size: 3-13/16 inch wide by 7 inch high. Maximum Size: 25-7/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-12 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.
         3. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-13 Moldings. Standard Size: 4 inch wide by 12 inch high. Minimum Size: 1 inch wide by 3 inch high. Maximum Size: 15 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-13 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-14 Moldings. Standard Size: 2-1/2 inch wide by 5-5/8 inch high. Minimum Size: 2-1/2 inch wide by 5-5/8 inch high. Maximum Size: 20 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-14 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-15 Moldings. Standard Size: 7 inch wide by 12 inch high. Minimum Size: 3-1/2 inch wide by 6 inch high. Maximum Size: 26-1/4 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-15 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-16 Moldings. Standard Size: 7-1/2 inch wide by 12 inch high. Minimum Size: 3-3/4 inch wide by 6 inch high. Maximum Size: 28-1/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-16 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-17 Moldings. Standard Size: 2-5/8 inch wide by 6 inch high. Minimum Size: 2 inch wide by 4-7/8 inch high. Maximum Size: 19-11/16 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-17 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-18 Moldings. Standard Size: 5 inch wide by 6 inch high. Minimum Size: 2-1/2 inch wide by 3 inch high. Maximum Size: 35 inch wide by 42 inch high. Delete if not required.

* + - 1. SEI-M-18 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-19 Moldings. Standard Size: 4 inch wide by 12 inch high. Minimum Size: 2-1/2 inch wide by 3-1/2 inch high. Maximum Size: 28-15/16 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-19 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-20 Moldings. Standard Size: 2-1/2 inch wide by 5-5/8 inch high. Minimum Size: 2-5/16 inch wide by 4 inch high. Maximum Size: 27 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-20 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-21 Moldings. Standard Size: 7 inch wide by 12 inch high. Minimum Size: 1-9/16 inch wide by 2-5/8 inch high. Maximum Size: 27 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-21 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-22 Moldings. Standard Size: 8 inch wide by 8 inch high. Minimum Size: 1-3/8 inch wide by 1-3/8 inch high. Maximum Size: 35 inch wide by 35 inch high. Delete if not required.

* + - 1. SEI-M-22 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-M-23 Moldings. Standard Size: 6 inch wide by 11 inch high. Minimum Size: 4 inch wide by 7-5/16 inch high. Maximum Size: 24-9/16 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-M-23 Moldings:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Parapet Caps are available in a wide variety of profiles and dimensions, custom sizes are available. Refer to the manufacturer's website for drawings of each cornice. Delete if not required.

* + 1. EPS Parapet Caps: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-PC-1 Parapet Caps. Standard Size: 13 inch wide by 11 inch high. Minimum Size: 13 inch wide by 11 inch high. Maximum Size: 45 inch wide by 40-5/8 inch high. Delete if not required.

* + - 1. SEI-PC-1 Parapet Caps:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-PC-2 Parapet Caps. Standard Size: 13 inch wide by 16-1/8 inch high. Minimum Size: 13 inch wide by 16-1/8 inch high. Maximum Size: 35 inch wide by 43-7/16 inch high. Delete if not required.

* + - 1. SEI-PC-2 Parapet Caps:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-PC-3 Parapet Caps. Standard Size: 13 inch wide by 9 inch high. Minimum Size: 1-3/8 inch wide by 15/16 inch high. Maximum Size: 45 inch wide by 31-1/8 inch high. Delete if not required.

* + - 1. SEI-PC-3 Parapet Caps:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-PC-4 Parapet Caps. Standard Size: 13 inch wide by 14 inch high. Minimum Size: 3-1/4 inch wide by 3-1/2 inch high. Maximum Size: 41-3/4 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-PC-4 Parapet Caps:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Bullnoses are available in a wide variety of profiles and dimensions, custom sizes are available. Refer to the manufacturer's website for drawings of each cornice. Delete if not required.

* + 1. EPS Bullnoses: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-1 Bullnoses. Standard Size: 10 inch wide by 12 inch high. Minimum Size: 1-11/16 inch wide by 1-7/16 inch high. Maximum Size: 42 inch wide by 35 inch high. Delete if not required.

* + - 1. SEI-B-1 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-2 Bullnoses. Standard Size: 12 inch wide by 12 inch high. Minimum Size: 1 inch wide by 1 inch high. Maximum Size: 35 inch wide by 35 inch high. Delete if not required.

* + - 1. SEI-B-2 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-3 Bullnoses. Standard Size: 8 inch wide by 4 inch high. Minimum Size: 1/2 inch wide by 1 inch high. Maximum Size: 35 inch wide by 35 inch high. Delete if not required.

* + - 1. SEI-B-3 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-4 Bullnoses. Standard Size: 5 inch wide by 18 inch high. Minimum Size: 6-3/8 inch wide by 1-3/8 inch high. Maximum Size: 45 inch wide by 12-1/2 inch high. Delete if not required.

* + - 1. SEI-B-4 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-5 Bullnoses. Standard Size: 5 inch wide by 18 inch high. Minimum Size: 6-3/8 inch wide by 1-3/8 inch high. Maximum Size: 45 inch wide by 12-1/2 inch high. Delete if not required.

* + - 1. SEI-B-5 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-6 Bullnoses. Standard Size: 3 inch wide by 6 inch high. Minimum Size: 3/4 inch wide by 1-1/2 inch high. Maximum Size: 22-1/2 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-B-6 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-7 Bullnoses. Standard Size: 2-1/4 inch wide by 4 inch high. Minimum Size: 1-1/8 inch wide by 2 inch high. Maximum Size: 27 inch wide by 48 inch high. Delete if not required.

* + - 1. SEI-B-7 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-8 Bullnoses. Standard Size: 2-3/4 inch wide by 6 inch high. Minimum Size: 7/8 inch wide by 2 inch high. Maximum Size: 20-5/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-B-8 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-9 Bullnoses. Standard Size: 4-3/4 inch wide by 9-1/2 inch high. Minimum Size: 1-7/8 inch wide by 3-7/8 inch high. Maximum Size: 22-1/2 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-B-9 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-10 Bullnoses. Standard Size: 5-3/4 inch wide by 8-3/4 inch high. Minimum Size: 1-7/8 inch wide by 2-7/8 inch high. Maximum Size: 29-1/2 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-B-10 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-11 Bullnoses. Standard Size: 6-3/4 inch wide by 16 inch high. Minimum Size: 1 inch wide by 2-3/8 inch high. Maximum Size: 18-15/16 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-B-11 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-B-12 Bullnoses. Standard Size: 3-3/4 inch wide by 13-1/2 inch high. Minimum Size: 15/16 inch wide by 3-3/8 inch high. Maximum Size: 12-1/2 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-B-12 Bullnoses:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Sills are available in a wide variety of profiles and dimensions, custom sizes are available. Refer to the manufacturer's website for drawings of each cornice. Delete if not required.

* + 1. EPS Sills: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-S-1 Sills. Standard Size: 1-5/8 inch wide by 6-1/4 inch high. Minimum Size: 1-5/8 inch wide by 6-1/4 inch high. Maximum Size: 11-13/16 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-S-1 Sills:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-S-2 Sills. Standard Size: 1-1/2 inch wide by 6-3/8 inch high. Minimum Size: 1-1/2 inch wide by 6-3/8 inch high. Maximum Size: 10-9/16 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-S-2 Sills:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-S-3 Sills. Standard Size: 1-3/4 inch wide by 7-1/2 inch high. Minimum Size: 1-3/4 inch wide by 7-1/2 inch high. Maximum Size: 10-1/2 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-S-3 Sills:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-S-4 Sills. Standard Size: 1-3/4 inch wide by 6-1/4 inch high. Minimum Size: 1-3/4 inch wide by 6-1/4 inch high. Maximum Size: 12-5/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-S-4 Sills:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-S-5 Sills. Standard Size: 1-1/4 inch wide by 6-1/2 inch high. Minimum Size: 1-1/4 inch wide by 6-1/2 inch high. Maximum Size: 8-5/8 inch wide by 6-1/2 inch high. Delete if not required.

* + - 1. SEI-S-5 Sills:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-S-6 Sills. Standard Size: 2 inch wide by 7-1/2 inch high. Minimum Size: 2 inch wide by 7-1/2 inch high. Maximum Size: 12 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-S-6 Sills:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-S-7 Sills. Standard Size: 1-1/2 inch wide by 6-1/4 inch high. Minimum Size: 1-1/2 inch wide by 6-1/4 inch high. Maximum Size: 10-7/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-S-7 Sills:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-S-8 Sills. Standard Size: 1-1/2 inch wide by 4 inch high. Minimum Size: 1-1/2 inch wide by 4 inch high. Maximum Size: 16-7/8 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-S-8 Sills:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-S-9 Sills. Standard Size: 2 inch wide by 6-1/4 inch high. Minimum Size: 2 inch wide by 6-1/4 inch high. Maximum Size: 14-7/16 inch wide by 45 inch high. Delete if not required.

* + - 1. SEI-S-9 Sills:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Columns are available in a wide variety of profiles and dimensions, custom sizes are available. Refer to the manufacturer's website for drawings of each cornice. Delete if not required.

* + 1. EPS Columns: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-CC-1 Columns. Standard Size: 8 inch wide by 4 inch high. Minimum Size: 1 inch wide by 1 inch high. Maximum Size: 24-3/4 inch wide by 12-3/8 inch high. Delete if not required.

* + - 1. SEI-CC-1 Round Columns:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-CC-2 Columns. Standard Size: 8 inch wide by 4 inch high. Minimum Size: 1 inch wide by 1 inch high. Maximum Size: 16-1/4 inch wide by 8-1/8 inch high. Delete if not required.

* + - 1. SEI-CC-2 Round Columns:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-CC-3 Columns. Standard Size: 8 inch wide by 4 inch high. Minimum Size: 1 inch wide by 1 inch high. Maximum Size: 33-1/4 inch wide by 16-5/8 inch high. Delete if not required.

* + - 1. SEI-CC-3 Round Columns:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-CC-4 Columns. Standard Size: 8 inch wide by 4 inch high. Minimum Size: 1 inch wide by 1 inch high. Maximum Size: 14-3/16 inch wide by 7-1/8 inch high. Delete if not required.

* + - 1. SEI-CC-4 Fluted Columns:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-CC-5 Columns. Standard Size: 8 inch wide by 4 inch high. Minimum Size: 1 inch wide by 1 inch high. Maximum Size: 15-9/16 inch wide by 7-3/4 inch high. Delete if not required.

* + - 1. SEI-CC-5 Fluted Columns:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-CC-6 Columns. Standard Size: 8 inch wide by 4 inch high. Minimum Size: 1 inch wide by 1 inch high. Maximum Size: 22-1/8 inch wide by 10-9/16 inch high. Delete if not required.

* + - 1. SEI-CC-6 Oval Columns:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-CC-7 Columns. Standard Size: 8 inch wide by 4 inch high. Minimum Size: 4 inch wide by 1-1/2 inch high. Maximum Size: 35 inch wide by 13-1/8 inch high. Delete if not required.

* + - 1. SEI-CC-7 Rectangular Fluted Columns:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-CC-8 Columns. Standard Size: 8 inch wide by 4 inch high. Minimum Size: 4 inch wide by 1-1/2 inch high. Maximum Size: 35 inch wide by 13-1/8 inch high. Delete if not required.

* + - 1. SEI-CC-8 Rectangular Fluted Columns:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-CC-9 Columns. Standard Size: 8 inch wide by 4 inch high. Minimum Size: 4 inch wide by 1-1/2 inch high. Maximum Size: 35 inch wide by 13-1/8 inch high. Delete if not required.

* + - 1. SEI-CC-9 Rectangular Columns:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Wall Caps are available in a wide variety of profiles and dimensions, custom sizes are available. Refer to the manufacturer's website for drawings of each cornice. Delete if not required.

* + 1. EPS Wall Caps: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-WC-1 Wall Caps. Standard Size: 10-3/4 inch wide by 4-1/2 inch high, 8 inch inside notch. Minimum Size: 1-3/4 inch wide by 3/4 inch high, 1-15/16 inch inside notch. Maximum Size: 45 inch wide by 18-3/4 inch high, 33-7/16 inch inside notch. Delete if not required.

* + - 1. SEI-WC-1 Wall Caps:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high with \_\_\_ inch inside notch.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-WC-2 Wall Caps. Standard Size: 13-1/8 inch wide by 6 inch high, 5 inch inside notch. Minimum Size: 13-1/8 inch wide by 2-3/16 inch high, 1-7/8 inch inside notch. Maximum Size: 45 inch wide by 20-1/2 inch high, 17-1/8 inch inside notch. Delete if not required.

* + - 1. SEI-WC-2 Wall Caps:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high with \_\_\_ inch inside notch.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-WC-3 Wall Caps. Standard Size: 11-3/4 inch wide by 5-3/8 inch high, 6-3/4 inch inside notch. Minimum Size: 1-7/8 inch wide by 7/8 inch high, 1-1/8 inch inside notch. Maximum Size: 45 inch wide by 20-1/2 inch high, 25-3/4 inch inside notch. Delete if not required.

* + - 1. SEI-WC-3 Wall Caps:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high with \_\_\_ inch inside notch.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-WC-4 Wall Caps. Standard Size: 6-5/8 inch wide by 13 inch high, 6-3/4 inch inside notch. Minimum Size: 2-9/16 inch wide by 1-5/16 inch high, 1-15/16 inch inside notch. Maximum Size: 45 inch wide by 22-7/8 inch high, 23-5/16 inch inside notch. Delete if not required.

* + - 1. SEI-WC-4 Wall Caps:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high with \_\_\_ inch inside notch.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select below for SEI-WC-5 Wall Caps. Standard Size: 12 inch wide by 5-1/4 inch high, 6-3/4 inch inside notch. Minimum Size: 9-5/8 inch wide by 4-3/16 inch high, 5-3/8 inch inside notch. Maximum Size: 45 inch wide by 19-3/4 inch high, 25-5/16 inch inside notch. Delete if not required.

* + - 1. SEI-WC-5 Wall Caps:
         1. Size: \_\_\_ inch wide by \_\_\_ inch high with \_\_\_ inch inside notch.
         2. Size: As shown on the drawings.

\*\* NOTE TO SPECIFIER Delete below if lettering is not required.

* + 1. EPS Lettering: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER \*\* Cut-out letters or placement templates or both. Delete one if both are not required. Text can be in straight lines, along compound curves, arcs, or custom configurations.

* + - 1. Provide the following in configurations shown on the drawings:
         1. Cut out letters.
         2. Placement template.
         3. Logo.
         4. Custom graphic.

\*\* NOTE TO SPECIFIER \*\* Select dimensions. Standard size 3 inch, minimum size 2 inch, maximum size 35 inch. Delete dimensions not required. If more than one is used, show on the drawings.

* + - 1. Dimensions:
         1. \_\_\_\_ inch high.
         2. As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Select one or more fonts, delete not required. If more than one is used, show on the drawings.

* + - 1. Provide the following font:
         1. SEI-1 Arial.
         2. SEI-2 Bangle.
         3. SEI-3 Bank Gothic.
         4. SEI-4 Bauhaus.
         5. SEI-5 Bimini.
         6. SEI-6 Bookman.
         7. SEI-7 Braggadocio.
         8. SEI-8 Broadway.
         9. SEI-9 Commercial Script.
         10. SEI-10 Cooper.
         11. SEI-11 Copperplate.
         12. SEI-12 Della Robbia.
         13. SEI-13 Desdemona.
         14. SEI-14 Dom Casual.
         15. SEI-15 Edwardian Script.
         16. SEI-16 Engravers.
         17. SEI-17 Eurasia.
         18. SEI-18 Forte.
         19. SEI-19 Franklin Gothic.
         20. SEI-20 Futura.
         21. SEI-21 Graphite.
         22. SEI-22 Harlow.
         23. SEI-23 Harrington.
         24. SEI-24 Humanist.
         25. SEI-25 Kaufmann
         26. SEI-26 Lithograph.
         27. SEI-27 Lucida Blackletter.
         28. SEI-28 Magneto.
         29. SEI-29 Matura.
         30. SEI-30 Mono Type Corsiva.
         31. SEI-31 Murray Hill.
         32. SEI-32 Nuptual.
         33. SEI-33 Papyrus.
         34. SEI-34 Park Avenue.
         35. SEI-35 Phyllis.
         36. SEI-36 Rockwell.
         37. SEI-37 Romantic.
         38. SEI-38 Sans Serif.
         39. SEI-39 Script.
         40. SEI-40 Shelley Allegro.
         41. SEI-41 Shelley Volante.
         42. SEI-42 Signet.
         43. SEI-43 Square721.
         44. SEI-44 Stencil.
         45. SEI-45 Swis721.
         46. SEI-46 Tahoma.
         47. SEI-47 Tango.
         48. SEI-48 Times New Roman.
         49. SEI-49 Tiranti.
         50. SEI-50 Vagrounded.
         51. SEI-51 Victorian.
         52. SEI-52 Westminster.
         53. SEI-53 Wide Latin.
         54. SEI-54 Surich.
         55. Custom font.

\*\* NOTE TO SPECIFIER Delete below if FRP Laminated Panels are not required.

* + 1. FRP Laminated Panels: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER \*\* Select structural or non-structural panels.

* + - 1. Type: Structural panels.
      2. Type: Non-structural panels.

\*\* NOTE TO SPECIFIER \*\* Indicate dimensions. Maximum size is 4 by 8 feet, maximum thickness 10 inch.

* + - 1. Dimensions: \_\_\_ inch wide by \_\_\_ inch high by \_\_\_ inch thick.
      2. Dimensions: As shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Fiberglass Reinforced Panels (FRP) are rigid, scrubbable, fire resistant and easy to maintain, and contribute to insulation and sound deadening properties. Select materials below. Delete not required.

* + - 1. Provide the following materials laminated together as recommended by the manufacturer:
         1. Expanded polystyrene (EPS) insulation.
         2. Extruded polystyrene (XPS) insulation.
         3. Isocyanurate (ISO) insulation.
         4. Oriented Strand Board (OSB) wood.
         5. Plywood.
         6. Aluminum.
         7. Galvanized steel.
         8. Foil faced vapor barrier.

\*\* NOTE TO SPECIFIER\*\* Shelter Foam Perimeter Insulation is typically installed below concrete slab and underslab vapor barrier and at vertical foundation walls. Ideal for use with radiant heat. Delete below if Shelter Foam Perimeter is not required.

* + 1. Foam Perimeter Insulation: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Density: 1.0 pound per cubic foot.
       2. Flame Spread: 0.
       3. Smoke Developed: 175.
       4. Water Absorption: less than 4 percent by volume.
       5. Thermal Expansion: 0.000035 inch / inch / degree F. Nearly identical coefficient of expansion as vinyl siding.
       6. Treated with fire retardant and borate termite resistance.
       7. Contains no CFCs, HCFCs, or formaldehyde.
       8. Significantly reduces heat loss through foundations.
       9. Provides maximum support, improving strength of exterior cladding materials to eliminate buckling.
       10. Provides permeability while reducing air infiltration.
       11. Increases energy savings.
       12. Levels uneven surfaces.

\*\* NOTE TO SPECIFIER\*\* Shelter BackerWrap is a unique multi-layered insulation system to maximize air infiltration and prevent mold and mildew. Delete if not required.

* + 1. BackerWrap Insulation: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Multi-layered system comprised of Shelterwrap HD, Shelterform, and Insul-Start.
       2. Water Vapor Permeance: 5.0 at 1 inch thickness per Test Method ASTM E96.
       3. R-Value: Between 3.0 and 4.0 based on siding type.
       4. Rigid support system prevents buckling, denting and insect nesting under siding.
       5. Significantly reduces air infiltration and energy costs.
       6. Does not produce off-gassing, support fungus or bacteria growth.

\*\* NOTE TO SPECIFIER\*\* EPS Ceiling tiles are lightweight, flexible and designed to be installed in metal ceiling grid systems. Delete if not required.

* + 1. Re-Versa Ceiling Tile: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER\*\* Select finish, may be the same finish or different finishes on both sides. Delete not required.

* + - 1. Provide the following finishes:
         1. Embossed diagonal diamond design.
         2. Classic commercial acoustical finish.

\*\* NOTE TO SPECIFIER\*\* Select thickness. Delete not required.

* + - 1. Thickness and R-Value: 1/2 inch, R-Value 1.9.
      2. Thickness and R-Value: 1 inch, R-Value 3.8.

\*\* NOTE TO SPECIFIER\*\* Select panel size. Delete not required.

* + - 1. Panel Dimensions: 23-3/4 inch by 23-3/4 inch.
      2. Panel Dimensions: 23-3/4 inch by 47-3/4 inch.
      3. With proper installation, Re-Versa Tiles melt away allowing the sprinkler system to be exposed and activated in the event of a fire or heat in excess of 415 deg. F.
      4. Manufactured in accordance with FMRC 4651 including density, flammability, flexural strength, and melt-out / drop-out behavior.
      5. FM Approved.

\*\* NOTE TO SPECIFIER\*\* EPS Ceiling tiles are lightweight, flexible and designed to be installed in metal ceiling grid systems. Delete if not required.

* + 1. Tuff-Tile, Insulated FRP Ceiling Tiles: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER\*\* Select panel size. Delete not required.

* + - 1. Panel Dimensions: 23-3/4 inch by 23-3/4 inch.
      2. Panel Dimensions: 23-3/4 inch by 47-3/4 inch.

\*\* NOTE TO SPECIFIER\*\* Select thickness. Delete not required.

* + - 1. Thickness and R-Value: 1 inch, R-Value 4.17.
      2. Thickness and R-Value: 1-1/2 inch, R-Value 6.26.
      3. Thickness and R-Value: 2 inch, R-Value 8.34.

\*\* NOTE TO SPECIFIER\*\* Select thickness. Delete not required.

* + - 1. FRP thickness: 0.045 inch.
      2. FRP thickness: 0.060 inch.
      3. FRP thickness: 0.090 inch.
      4. FRP thickness: 0.120 inch.

\*\* NOTE TO SPECIFIER\*\* Select finish. Delete not required.

* + - 1. Finish: Smooth.
      2. Finish: Pebble.
      3. Finish: Matte.
      4. Finish: Hex Pin.

\*\* NOTE TO SPECIFIER\*\* Select color. Delete not required.

* + - 1. Color: White.
      2. Color: Almond.
      3. Color: Sand.
      4. Color: Ivory.
      5. Color: Silver.
      6. Color: Coral.
      7. Color: Pewter.
      8. Color: Custom.

\*\* NOTE TO SPECIFIER\*\* Select FRP fire rating. Delete not required.

* + - 1. FRP Fire Rating: General purpose, class C.
      2. FRP Fire Rating: Low Flame (LF), class A.
      3. FRP Fire Rating: Low Flame and Smoke (LF&S).
      4. Provide FRP on both sides unless otherwise indicated.

\*\* NOTE TO SPECIFIER\*\* Immacu-Liner are USDA Accepted. Delete if not required.

* + 1. Immacu-Liner, High Efficiency Wall Panels: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. USDA accepted to absorb impact.
       2. Reinforced with foil faced vapor barrier where required for moisture permeability.
       3. Combustibility: Product shall not be exposed to fire or high heat, do not leave exposed or inadequately protected by gypsum board or other materials.

\*\* NOTE TO SPECIFIER\*\* Fire Rated FRP is factory laminated to fire rated gypsum. Delete if not required.

* + 1. Fire Block: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Class A fire rated.
       2. UL Listed.
       3. Flame Spread: Less than 25.
  1. UNDERLAYMENT AND SHEATHING EPS

\*\* NOTE TO SPECIFIER\*\* Shelterwrap polystyrene fanfold insulation underlayment has covered over a million homes in the past 35 years. Delete if not required.

* + 1. Shelterwrap Insulation: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER\*\* Select thickness and R-Value. R-values are at 75 deg. F based on data from the ASHRAE Handbook of Fundamentals. System R-Value includes 3/4 inch foil lined air space. Delete thicknesses not required.

* + - 1. Thickness and R-Value: 1/4 inch, Shelterwrap R-Value 1.3, Typical System R-Value 4.7.
      2. Thickness and R-Value: 3/8 inch, Shelterwrap R-Value 1.6, Typical System R-Value 5.0.
      3. Thickness and R-Value: 1/2 inch, Shelterwrap R-Value 2.1, Typical System R-Value 5.5.
      4. Thickness and R-Value: 3/4 inch, Shelterwrap R-Value 3.1, Typical System R-Value 6.5.
      5. Thickness and R-Value: 1 inch, Shelterwrap R-Value 4.2, Typical System R-Value 7.6.
      6. Panel Size: 24 feet wide by 4 feet high, accordion fan folded.
      7. Core Material: Expanded Polystyrene (EPS) to meet or exceed ASTM C578.

\*\* NOTE TO SPECIFIER\*\* Select facing material. Delete not required.

* + - 1. Facing: PC2 Poly-(clear) / Poly-(clear).
      2. Facing: RPC Poly-(reflective) / Poly-(clear).
      3. Facing: R2 Poly-(reflective) / Poly-(reflective).
      4. Water Vapor Permeance: 5.0 at 1 inch thickness per Test Method ASTM E96.
      5. Insect and mold resistant.

\*\* NOTE TO SPECIFIER\*\* Sheltersheath can be applied to exterior sheathing, direct to studs, internal basement walls, shingle roof over plywood, external foundation walls, brick cavities and other applications. Delete if not required.

* + 1. Sheltersheath Insulation, Continuous Insulation Sheathing: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER\*\* Select thickness and R-Value. R-values are at 75 deg. F based on data from the ASHRAE Handbook of Fundamentals. System R-Value includes 3/4 inch foil lined air space. Delete thicknesses not required.

* + - 1. Thickness and R-Value: 1/2 inch, Sheltersheath R-Value 2.1, Typical System R-Value 5.5.
      2. Thickness and R-Value: 3/4 inch, Sheltersheath R-Value 3.1, Typical System R-Value 6.5.
      3. Thickness and R-Value: 1 inch, Sheltersheath R-Value 4.2, Typical System R-Value 7.6.
      4. Thickness and R-Value: 1-1/2 inch, Sheltersheath R-Value 6.3, Typical System R-Value 5.5.
      5. Thickness and R-Value: 2 inch, Sheltersheath R-Value 8.4, Typical System R-Value 8.4.
      6. Panel Dimensions: 4 by 8 feet.

\*\* NOTE TO SPECIFIER\*\* Select facing material. Delete not required.

* + - 1. Facing: PC2 Poly-(clear) / Poly-(clear).
      2. Facing: RPC Poly-(reflective) / Poly-(clear).
      3. Facing: R2 Poly-(reflective) / Poly-(reflective).
      4. Complies with HUD/FHA requirements when installed according to the specific instructions of HUD/FHA Use of Materials.

\*\* NOTE TO SPECIFIER\*\* Stress-Skin Panels are manufactured in a controlled environment to ensure superior quality. Delete if not required.

* + 1. Stress-Skin Panels: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER\*\* Select materials based on manufacturer recommendations. Delete not required.

* + - 1. Provide the following substrates:
         1. Oriented Strand Board (OSB).
         2. Plywood.
         3. Gypsum board,
         4. Fiberglass Reinforced Plastic.
         5. CDX.
         6. Pressure Treated CDX.
         7. Medium Density Overlay (MDO).
         8. High Density Overlay (HDO).
      2. Panel Size: 4 by 16 feet unless otherwise indicated.
      3. Provide with chase holes for electrical conduit and piping if indicated on the drawings.

\*\* NOTE TO SPECIFIER\*\* Select vinyl siding products to be provided. Delete products not required.

* + 1. Vinyl Siding Products: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. CornerFoam: Installed behind vinyl siding corners.
          1. Fast and easy to install.
          2. Reduced air infiltration.
          3. Eliminates access by animals and insects.
          4. Straighter corners.
       2. Shelterform: Installed between vinyl siding and air/vapor barrier.
          1. Density: 1.0 pound per cubic foot.
          2. Flame Spread: 0.
          3. Smoke Developed: 175.
          4. Water Absorption: less than 4 percent by volume.
          5. Thermal Expansion: 0.000035 inch / inch / degree F. Nearly identical coefficient of expansion as vinyl siding.
          6. Treated with fire retardant and borate termite resistance.
          7. Contains no CFCs, HCFCs, or formaldehyde.
          8. Provides permeability, reducing the risk of condensation.
          9. Custom cut and designed to give siding maximum support to improve siding strength and eliminate buckling.
       3. Insul-Start: Designed to work with the complete line of drop-in siding backer products.
          1. Length: 12 feet-6 inch.
  1. VENTILATION AND SEALING EPS

\*\* NOTE TO SPECIFIER\*\* AeroVent snaps into attics to provide a continuous flow of fresh outside air to replace excessive moisture and damp air that can be trapped in attics. Delete if not required.

* + 1. AeroVent: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Vacuum molded attic air flow snap vents.
       2. Provide a continuous flow of fresh outside air to replace excessive moisture and damp air that can be trapped in attics.
       3. Creates a barrier between the roof and insulation.

\*\* NOTE TO SPECIFIER\*\* Shelter Foam snap vents are excellent for behind paneling or wall board in basements or CMU walls. Delete if not required.

* + 1. ShelterFoam Snap Vents: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. High efficiency panels install between foundation walls and basement wall finishes.
       2. Tacks up with adhesives, staples, or friction fit between furring strips.
       3. Combustibility: Product shall not be exposed to fire or high heat, do not leave exposed or inadequately protected by gypsum board or other materials.

\*\* NOTE TO SPECIFIER\*\* ShelterSeal, Rigid Sill Plate Gaskets seal the bap between foundations and sill plates to reduce air infiltration. Delete if not required.

* + 1. ShelterSeal, Rigid Sill Plate Gaskets: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Polyethylene gasket to seal gaps between foundations and sill plates and around door and window frames.
       2. Moisture resistant, will not deteriorate after years of use.
       3. Helps to seal out insects.
  1. ROOFING EPS

\*\* NOTE TO SPECIFIER\*\* Shelter Tapered Insulation is for new and retrofitted roofing systems. Delete if not required.

* + 1. Tapered Insulation: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:

\*\* NOTE TO SPECIFIER\*\* Select type of tapered insulation to be used. Delete if not required.

* + - 1. EPS Composite Board: Structural board laminated to EPS insulation to provide greater strength and durability, and a top surface that acts as a protective layer for traffic, hot asphalt, single ply adhesive or a variety of roofing materials laminated one or both sides as indicated on the drawings.
      2. Dow Styrofoam Deckmate Plus Insulation:
         1. R-Value: 5.0 per inch.
         2. Compressive Strength: 25 psi minimum.

\*\* NOTE TO SPECIFIER\*\* Geofoam is used on green roofs to resist moisture and provide thermal value. Delete if not required.

* + 1. Green Roofs Geofoam: Provide EPS insulation manufactured by Shelter Enterprises Inc. in locations and configurations as shown on the drawings, and to meet the following properties:

\*\* NOTE TO SPECIFIER \*\* Select EPS geofoam type based on project requirements, the relationship between foam density and compressive resistance at 1% strain is critical. Delete types not required.

* + - 1. EPS 15, 1.0#, Type I in accordance with ASTM D6817:
         1. Minimum Density: 0.90 pounds per cubic foot (14.4 kilograms per cubic meter).
         2. Compressive Resistance:

At 1% Deformation: Minimum 3.6 psi, 520 psf (25 kPa).

At 5% Deformation: Minimum 8 psi, 1150 psf (55 kPa).

At 10% Deformation: Minimum 10.2 psi, 1470 psf (70 kPa).

* + - * 1. Elastic Modulus: 360 psi (2500 kPa).
        2. Flexural Strength: 25.0 psi (172 kPa).
        3. Water Absorption, Maximum Total Immersion: 4 percent.
        4. Oxygen Index: 24.0 percent.
        5. Buoyancy Force: 61.5 pounds per cubic foot (980 kilograms per cubic meter).
      1. EPS 19, 1.25#, Type VIII in accordance with ASTM D6817:
         1. Minimum Density: 1.15 pounds per cubic foot (18.4 kilograms per cubic meter).
         2. Compressive Resistance:

At 1% Deformation: Minimum 5.8 psi, 835 psf (40 kPa).

At 5% Deformation: Minimum 13.1 psi, 1890 psf (90 kPa).

At 10% Deformation: Minimum 16.0 psi, 2300 psf (110 kPa).

* + - * 1. Elastic Modulus: 580 psi (4000 kPa).
        2. Flexural Strength: 30.0 psi (207 kPa).
        3. Water Absorption, Maximum Total Immersion: 3 percent.
        4. Oxygen Index: 24.0 percent.
        5. Buoyancy Force: 61.3 pounds per cubic foot (980 kilograms per cubic meter).
      1. EPS 22, 1.5#, Type II in accordance with ASTM D6817:
         1. Minimum Density: 1.35 pounds per cubic foot (21.6 kilograms per cubic meter).
         2. Compressive Resistance:

At 1% Deformation: Minimum 7.3 psi, 1050 psf (50 kPa).

At 5% Deformation: Minimum 16.7 psi, 2400 psf (115 kPa).

At 10% Deformation: Minimum 19.6 psi, 2820 psf (135 kPa).

* + - * 1. Elastic Modulus: 730 psi (5000 kPa).
        2. Flexural Strength: 35.0 psi (240 kPa).
        3. Water Absorption, Maximum Total Immersion: 3 percent.
        4. Oxygen Index: 24.0 percent.
        5. Buoyancy Force: 61.1 pounds per cubic foot (980 kilograms per cubic meter).
      1. EPS 29, 2.0#, Type IX in accordance with ASTM D6817
         1. Minimum Density: 1.80 pounds per cubic foot (28.8 kilograms per cubic meter).
         2. Compressive Resistance:

At 1% Deformation: Minimum 10.9 psi, 1570 psf (75 kPa).

At 5% Deformation: Minimum 24.7 psi, 3560 psf (170 kPa).

At 10% Deformation: Minimum 29.0 psi, 4180 psf (200 kPa).

* + - * 1. Elastic Modulus: 1090 psi (7500 kPa).
        2. Flexural Strength: 50.0 psi (345 kPa).
        3. Water Absorption, Maximum Total Immersion: 2 percent.
        4. Oxygen Index: 24.0 percent.
        5. Buoyancy Force: 60.6 pounds per cubic foot (970 kilograms per cubic meter).
      1. EPS 39, 2.5#, Type XIV in accordance with ASTM D6817:
         1. Minimum Density: 2.40 pounds per cubic foot (38.4 kilograms per cubic meter).
         2. Compressive Resistance:

At 1% Deformation: Minimum 15.0 psi, 2160 psf (103 kPa).

At 5% Deformation: Minimum 35.0 psi, 5040 psf (241 kPa).

At 10% Deformation: Minimum 40.0 psi, 5760 psf (276 kPa).

* + - * 1. Elastic Modulus: 1500 psi (10300 kPa).
        2. Flexural Strength: 60.0 psi (414 kPa).
        3. Water Absorption, Maximum Total Immersion: 2 percent.
        4. Oxygen Index: 24.0 percent.
        5. Buoyancy Force: 60.0 pounds per cubic foot (960 kilograms per cubic meter).
      1. EPS 46 3.0#, Type XV in accordance with ASTM D6817:
         1. Minimum Density: 2.85 pounds per cubic foot (45.7 kilograms per cubic meter).
         2. Compressive Resistance:

At 1% Deformation: Minimum 18.6 psi, 2680 psf (128 kPa).

At 5% Deformation: Minimum 43.5 psi, 6260 psf (300 kPa).

At 10% Deformation: Minimum 60.0 psi, 7200 psf (345 kPa).

* + - * 1. Elastic Modulus: 1860 psi (12800 kPa).
        2. Flexural Strength: 75.0 psi (517 kPa).
        3. Water Absorption, Maximum Total Immersion: 2 percent.
        4. Oxygen Index: 24.0 percent.
        5. Buoyancy Force: 59.5 pounds per cubic foot (950 kilograms per cubic meter).

\*\* NOTE TO SPECIFIER \*\* Construction Applications: ShelterFoam is used in assorted building applications, including plaza decks, landscape planters, utility and conduit insulation / protection, embankments, building sheathing, roadway bases and bridge abutment lightweight backfill, median barriers, and under slab / perimeter insulation, along with numerous other geofoam applications.

* + 1. ShelterFoam 100: High-performance high-density insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS). Long-term stable R-Value, excellent dimensional stability, compressive strength and water resistant properties.
       1. Meets or exceeds requirements of ASTM D6817.
       2. Environmentally Friendly. Contains no formaldehyde or ozone-depleting HCFCs.
       3. Contains recycled material, and is 100 percent recyclable if ever removed or replaced.
       4. Stable R-Value over its entire service life. No thermal drift.
       5. Water-Resistant. Does not readily absorb moisture from the environment.
       6. Standards Compliance: Recognized by the International Code Council Evaluation Service (ICC-ES).
       7. Mold and mildew resistant.
       8. Physical Properties:
          1. Density; nominal pcf per ASTM C303: 5.00
          2. Conductance per Inch: per ASTM C518 or ASTM C177

At 25 degrees F ( degrees C): 0.196 BTU/hr sq ft F

At 40 degrees F ( degrees C): 0.198 BTU/hr sq ft F

At 75 degrees F ( degrees C): 0.217 BTU/hr sq ft F

* + - * 1. R-Value Resistance: per ASTM C518 or ASTM C177
        2. Hr sq ft F)/BTU

At 25 degrees F ( degrees C): 05.10

At 40 degrees F ( degrees C): 5.05

At 75 degrees F ( degrees C): 5.00

* + - * 1. Compressive Strength at 10 percent deformation per ASTM D1621: 100 psi.
        2. Flexural Strength per ASTM C203: 140 psi minimum.
        3. Dimensional Stability: per ASTM D2126: 2.0 maximum.
        4. Water Vapor Permeance per ASTM E96: 2.5 maximum
        5. Water Absorption per ASTM C272: 0.0 percent by volume maximum.
        6. Water Absorption per ASTM C272: 2.0 percent weight.
        7. Capillarity: None
        8. Per ASTM E84

Flame Spread: 25.0.

Smoke Developed: 150 to 300.

* + - 1. Sizes:

\*\* NOTE TO SPECIFIER \*\* ShelterFoam EPS is readily available in custom sizes with little or no lead time impact. Tapered panels are also available.

* + - * 1. Sheets: 2 x 8 ft (310 x mm)
        2. Sheets: 3x 8 ft ( x mm)
        3. Sheets: 4 x 8 ft (1219 x mm)

\*\* NOTE TO SPECIFIER \*\* Delete sheet thickness options not required, Thicknesses range from to 54 inches in job specific quantities.

* + - * 1. Sheet Thickness: As detailed on the drawings.
        2. Sheet thickness: \_\_\_\_ inches (\_\_\_\_ mm).

\*\* NOTE TO SPECIFIER\*\* Shelter Flute Fillers are typically used in flutes of metal deckings for bridges or floor decking to reduce weight. Delete if not required.

* + 1. Flute Fillers, EPS Flute Fillers for Metal Decks: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Install between metal decking flutes to reduce weight and increase thermal properties.
       2. Will not absorb moisture.
       3. Provides lighter weight spans.
       4. Use less concrete, making the entire deck lighter.
  1. CONCRETE PRODUCTS AND FORMING EPS

\*\* NOTE TO SPECIFIER\*\* Shelter Flute Fillers are typically used in flutes of metal decking for bridges or floor decking to reduce weight. Delete if not required.

* + 1. Flute Fillers, EPS Flute Fillers for Metal Decks: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Install between metal decking flutes to reduce weight and increase thermal properties.
       2. Will not absorb moisture.
       3. Provides lighter weight spans.
       4. Use less concrete, making the entire deck lighter.

\*\* NOTE TO SPECIFIER\*\* Shelter Custom Concrete Form Liners are used to ensure accurate and consistent pour surfaces to form against. Delete if not required.

* + 1. Custom Concrete Form Liners: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Expanded Polystyrene (EPS) to have a smooth or textured pour face as shown on the drawings.

\*\* NOTE TO SPECIFIER\*\* Select laminate material. Delete if not required.

* + - 1. Laminate: None.
      2. Laminate: Plywood.
      3. Laminate: Oriented Strand Board (OSB).
      4. Textured Reinforced Fiberglass.
      5. Smooth Reinforced Fiberglass.
      6. Reuse forms only as permitted by the manufacturer.

\*\* NOTE TO SPECIFIER\*\* Shelter Custom Cut Box Beam Void Fillers are typically used in one piece. Delete if not required.

* + 1. Custom EPS Box Beam Void Fillers: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Lightweight.
       2. Custom Shapes.

\*\* NOTE TO SPECIFIER\*\* Shelter Texas Rails are available in 6 different styles, refer to the manufacturer's website for profile. Delete if not required.

* + 1. Texas Rails: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Custom manufactured based on plans and details provided.

\*\* NOTE TO SPECIFIER\*\* Shelter Insulation for Concrete Tilt-Up Walls are built flat on the ground in box form, then tilted vertically to form a section of wall. Delete if not required.

* + 1. Insulation for Concrete Tilt-Up Wall Panels: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Typical location is between placed concrete poured flat and tilted up to form walls.
       2. Custom manufactured based on plans and details provided.

\*\* NOTE TO SPECIFIER\*\* Shelter Insulation for CMU is changing the face of concrete masonry wall systems Delete if not required.

* + 1. OmniCore CMU Insulation Inserts: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. EPS material is cut to fit any shape of block. Adaptable to rectangular or pear-shaped cores, can be factory installed in standard CMU.
       2. Cut, not molded.
       3. Improves the thermal value of concrete masonry unit walls.

\*\* NOTE TO SPECIFIER\*\* Shelter Foam Perimeter Insulation is typically installed below concrete slab and underslab vapor barrier and at vertical foundation walls. Ideal for use with radiant heat. Delete below if Shelter Foam Perimeter is not required.

* + 1. Foam Perimeter Insulation: Provide products manufactured by Shelter Enterprises Inc. Provide in locations and configurations as shown on the drawings, and to meet the following:
       1. Density: 1.0 pound per cubic foot.
       2. Flame Spread: 0.
       3. Smoke Developed: 175.
       4. Water Absorption: less than 4 percent by volume.
       5. Thermal Expansion: 0.000035 inch / inch / degree F. Nearly identical coefficient of expansion as vinyl siding.
       6. Treated with fire retardant and borate termite resistance.
       7. Contains no CFCs, HCFCs, or formaldehyde.
       8. Significantly reduces heat loss through foundations.
       9. Provides maximum support, improving strength of exterior cladding materials to eliminate buckling.
       10. Provides permeability while reducing air infiltration.
       11. Increases energy savings.
       12. Levels uneven surfaces.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. GRAPHITE ENHANCED POLYSTYRENE FOAM

\*\* NOTE TO SPECIFIER \*\* ShelterFoam GPS is commonly used within a variety of industrial, commercial, and residential projects including exterior insulation finish systems (EIFS), traditional and one-coat stucco systems, continuous insulation sheathing, tilt up walls, sheathing systems, under slab and perimeter/foundation applications, cavity walls, interior walls, cold storage walls and floors, commercial roofing, garage and entry doors, insulated vinyl siding, radiant flooring, structural insulated panels (SIPS), along with attics and crawl spaces to name a few. ShelterFoam GPS achieves a higher R-value in a thinner profile, making it ideal for space-constrained applications. This product has even become the leading form of insulation in Europe over the past few decades.

* + 1. ShelterFoam GPS: High-performance, closed cell, lightweight, mold and mildew resistant expanded polystyrene material used as rigid thermal insulation
       1. Standards Compliance:
          1. Meets or exceeds the highest standards of ASTM C578 and ASTM D6817 for expanded polystyrene,
          2. Recognized by the ICC-ES and UL.
          3. Approved for use in certain NFPA 285 wall assembles.
       2. Color: Silver-Gray color, due to the high purity graphite that is contained within the polymer intercellular substance of the foam board.
       3. Graphite Particles: Reflect and absorb radiant energy increasing insulation R-value.
       4. No thermal drift. Physical properties remain stable over entire service life.
       5. Mold and Mildew Resistant: Does not support mold or mildew growth
       6. Water Resistant and Closed Cell Foam: Breathable. Does not retain moisture and maintains physical properties even under extreme environmental conditions
       7. Reflects radiant heat energy, reduces thermal conductivity, and
       8. R-Values: Increase during colder temperatures as much as 25 percent due to the combination of GPS Matrix along with cell gas and radiation.

\*\* NOTE TO SPECIFIER \*\* Delete the physical properties paragraphs for types not required.

* + - 1. Physical Properties: Type IX
         1. Nominal Density (description /classification name) per ASTM C303: 2.00 lb/cu ft (32.0 kg/cu m).
         2. R-VALUE per 1.0625 inch Thermal Resistance: per ASTM C518 or C177

At 25 degrees F (minus 3.9 degrees C): 5.5.

At 40 degrees F (4.4 degrees C): 5.3.

At 75 degrees F (23.9 degrees C): 5.1.

Comprehensive Resistance at 10 percent Deformation per ASTM D1621:

Minimum: 15.0 psi per ASTM C578

Actual: 20.0 psi

* + - * 1. Flexural Strength per ASTM C203: 35.0 psi minimum
        2. Water Vapor Permeability: per ASTM E96: 2.5 maximum permeability per inch.
        3. Water Absorption by total immersion per ASTM C272: 1.1 percent by volume, maximum.
        4. Dimensional Stability per ASTM D2126: 2.0 percent maximum change.
        5. Oxygen Index per ASTM D2863: 24.0 percent volume.
        6. Per ASTM E84:

Flame Spread Index: Class A; 5 or less.

Smoke Development Index: 25 or less.

* + - 1. Physical Properties: Type II
         1. Nominal Density (description /classification name) per ASTM C303: 1.50 lb/ cu ft (24.0 kg/cu m).
         2. R-VALUE per 1.0625 inch Thermal Resistance: per ASTM C518 or C177

At 25 degrees F (minus 3.9 degrees C): 5.5.

At 40 degrees F (4.4 degrees C): 5.3.

At 75 degrees F (23.9 degrees C): 5.1.

Comprehensive Resistance at 10 percent Deformation per ASTM D1621:

Minimum: 15.0 psi per ASTM C578

Actual: 20.0 psi

* + - * 1. Flexural Strength per ASTM C203: 35.0 psi minimum
        2. Water Vapor Permeability: per ASTM E96: 3.1 maximum permeability per inch.
        3. Water Absorption by total immersion per ASTM C272: 1.1 percent by volume, maximum.
        4. Dimensional Stability per ASTM D2126: 2.0 percent maximum change.
        5. Oxygen Index per ASTM D2863: 24.0 percent volume.
        6. Per ASTM E84:

Flame Spread Index: Class A; 5 or less.

Smoke Development Index: 25 or less.

* + - 1. Physical Properties: Type IX
         1. Nominal Density (description /classification name) per ASTM C303: 1.00 lb/ cu ft (16.0 kg/cu m).
         2. R-VALUE per 1.0625 inch Thermal Resistance: per ASTM C518 or C177

At 25 degrees F (minus 3.9 degrees C): 5.1.

At 40 degrees F (4.4 degrees C): 5.3.

At 75 degrees F (23.9 degrees C): 5.1.

Comprehensive Resistance at 10 percent Deformation per ASTM D1621:

Minimum: 10.0 psi per ASTM C578

Actual: 13.0 psi

* + - * 1. Flexural Strength per ASTM C203: 25.0 psi minimum
        2. Water Vapor Permeability: per ASTM E96: 4.0 maximum permeability per inch.
        3. Water Absorption by total immersion per ASTM C272: 1.1 percent by volume, maximum.
        4. Dimensional Stability per ASTM D2126: 2.0 percent maximum change.
        5. Oxygen Index per ASTM D2863: 24.0 percent volume.
        6. Per ASTM E84:

Flame Spread Index: Class A; 5 or less.

Smoke Development Index: 25 or less.

* + - 1. Sizes:

\*\* NOTE TO SPECIFIER \*\* ShelterFoam GPS is lightweight and easy to cut into custom shapes and sizes for any application. Tapered panels are also available.

* + - * 1. Sheets: 2 x 4 ft (310 x 1219 mm).
        2. Sheets: 2 x 8 ft (310 x mm)
        3. Sheets: 4 x 8 ft (1219 x mm)

\*\* NOTE TO SPECIFIER \*\* Delete sheet thickness options not required, Thicknesses range from 1/2 to 48 inches in job specific quantities.

* + - * 1. Sheet Thickness: As detailed on the drawings.
        2. Sheet thickness: \_\_\_\_ inches (\_\_\_\_ mm).

1. EXECUTION
   1. EXAMINATION
      1. Examine and measure installation areas and subgrade conditions are prepared to receive EPS insulation to confirm conditions are within the manufacturers limits.
      2. Do not begin installation until substrates have been properly prepared.
      3. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Verify surrounding construction, dimensions, and other conditions which would affect installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install in accordance with the manufacturer's current published instructions, and details and drawings issued for the project.
         1. Conflicts between the manufacturer instructions and project documents shall be resolved in writing prior to installation.
   4. PROTECTION
      1. Protect installed products and surface finishes from damage during construction
      2. Remove and legally dispose of construction debris from project site.

END OF SECTION