STANDING SEAM METAL ROOF

PART 1 - GENERAL

1.01 DESCRIPTION

A. GENERAL:

1. Furnish all labor, material, tools, equipment, and services for all preformed roofing as indicated, in accord with provisions of Contract Documents.
2. Completely coordinate with work of all other trades.
3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.

1.02 QUALITY ASSURANCE

A. **Applicable Standards**:

1. SMACNA: "Architectural sheet Metal Manual" Sheet Metal and Air Conditioning Contractors National Association, Inc.
2. AISC: "Steel Construction Manual" American Institute of Steel Construction.
3. AISI: "Cold Form Steel Design Manual", American Iron and Steel Institute.
4. ASTM A792-83-AZ50: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized) by the hot dip process, general requirements (galvalume).

B. **Manufacturer's Qualifications**:

1. Manufacturer has a minimum of three years experience in manufacturing panels of this nature.

C. **Installer's Qualifications**:

1. Installation of panels and accessories by installers with a minimum of two years experience in panel projects of this nature.

1.03 SUBMITTALS

A. **Shop Drawings**:

1. Submit complete shop drawings and erection details to Architect for review. Do not proceed with manufacture prior to review of shop drawings. Do not use drawings prepared by architect for shop or erection drawings.
2. Shop drawings show methods of erection, elevations and plans of roof panels, sections and details, anticipated loads, flashings, roof curbs, vents, sealants, interfaces with all materials not supplied and proposed identification of component parts and their finishes.

B. **Samples**:

1. Submit samples and color chips for all proposed finishes.
   a. Submit one 8 in. long sample of panel, including clips.
   b. Submit two 3 in. X 5in. color chip samples in color selected by Architect.

C. **Warranty(s)**:

1. Metal panel manufacturer, upon final acceptance for project, furnish a warranty covering bare metal against rupture, structural failure, and perforation due to normal atmospheric corrosion exposure for a period of 20 years.
2. Covering panel finish against cracking, checking, blistering, peeling, flaking, chipping, chalking and fading for a period of twenty (20) years for roof panels (premium fluorocarbon coating produced with Kynar 500 or Hylar 5000 resin).

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

A. **Delivery**: Deliver panels to jobsite properly packaged to provide protection against transportation damage.

B. **Handling**: Exercise extreme care in unloading, storing and erecting panels to prevent bending, warping, twisting, and surface damage.

C. **Storage**: Store all material and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation to panels to prevent condensation build-up between each panel.

PART 2 - PRODUCTS

2.01 MATERIALS

A. **Panel profile**:

1. 1 3/4 in. high rib x 18 in. wide panel.

B. **Panel style**:

1. Narrow rib, vertical leg, concealed fastener, positive snap lock standing seam, utilizing male and female rib configurations, with factory applied hot melt mastic in female rib.

C. **Gauge**:

1. 24 gauge

D. **Substrate**:

1. Galvalume steel sheet, 0.5 ounces/square foot, minimum yield of 50,000 PSI.

E. **Clip**:

1. 18 gauge UL-rated clip with two fasteners to structural .

F. **Texture**:

2. Smooth.

G. **Finish**:

1. Premium fluorocarbon coating produces with Kynar 500 or Hylar 5000 resin.

H. **Color**:

1. Selected from manufacturer's standard offering. See Contract Documents.

I. **Acceptable Manufacturer**:

1. MBCI.
2. Product
   a. LS-18
      Indianapolis Plant
      1780 McCall Dr.
      P.O. Box 657
      Shelbyville, IN 46176
      (317) 398-4400

J. **Optional Manufacturers**:

1. AEP/Span - Dallas, TX.

2.02 FABRICATION

A. Material shall be in-line tension leveled prior to roll forming finished panel profile.
B. Roll form panels in continuous lengths, full length of detailed runs.
C. Standard panel length shall be no more than 45 feet.
D. Fabricate trim, flashing and accessories to detailed profiles.
E. Fabricate trim and flashing from same material as panel.

PART 3 - EXECUTION

3.01 SURFACE CONDITIONS

A. **EXAMINATION**:

1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
2. Verify that installation may be made in accordance with approved shop drawings and manufacturer's instructions.

B. **Discrepancies**:

1. In event of discrepancy, notify Architect.
2. Do not proceed with installation until discrepancies have been resolved.

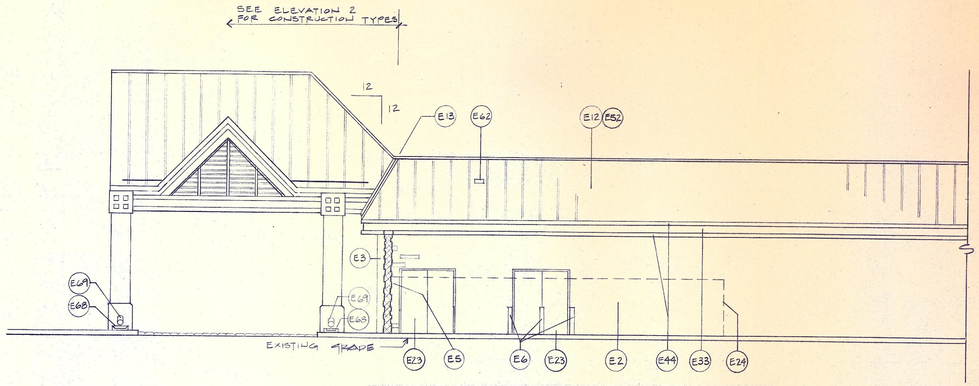
3.02 INSTALLATION

A. Install panels so that they are weathertight, without waves, warps, buckles, fastening stresses or distortion, allowing for expansion and contraction.
B. Install panels in accordance with manufacturer's instructions and shop drawings.
C. Provide concealed anchors at all panel attachment locations.
D. Install panels plumb, level, and straight with seams and ribs parallel, conforming to design as indicated.

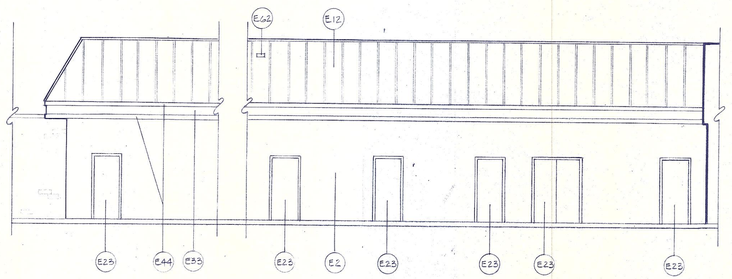
3.03 CLEANING, PROTECTION

A. Dispose of excess materials and remove debris from site.
B. Clean work in accordance with manufacturer's recommendations.
C. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the Architect, any work that becomes damaged prior to final acceptance.
D. Touch up minor scratches and abrasions.

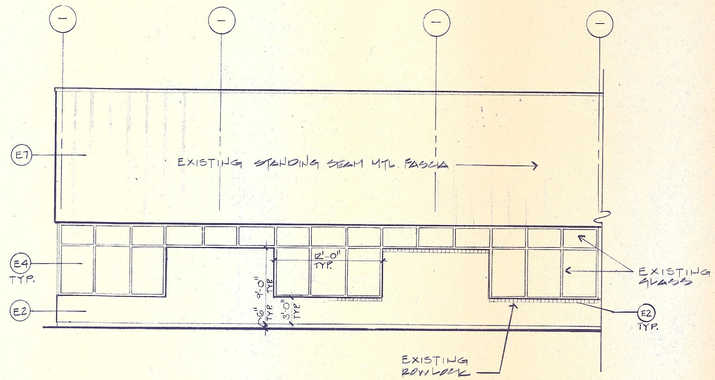
Holiday Inn approved roofing contractor: Centimark Roof Systems, Pittsburgh, PA (800) 558-4100



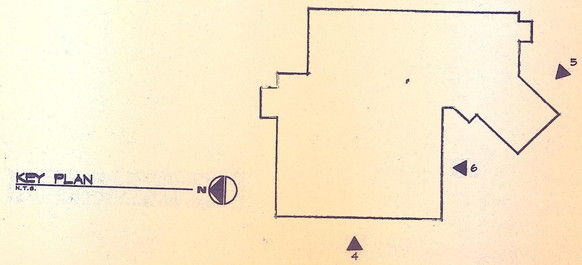
ELEVATION 4 (PARTIAL)
1/8" = 1'-0"



ELEVATION 6
1/8" = 1'-0"



ELEVATION 5
1/8" = 1'-0"



archiplan international, ltd.
ARCHITECTURE · PLANNING · INTERIOR DESIGN
955 north plum grove rd. suite E
schaumburg, illinois 60173-4784
(847) 619-9555 fax (847) 619-1440

STATE OF ILLINOIS · BARTON & BARROW, ARCHITECTS · 6415 · LICENSED ARCHITECT

HOLIDAY INN
CORE MODERNIZATION
860 IRVING PARK ROAD
ITASCA, IL 60143

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