SECTION 05 52 17

ROOFTOP FALL PROTECTION

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\*\* NOTE TO SPECIFIER \*\* Safety Rail Company, LLC; OSHA compliant fall protection systems products.  
This section is based on the products of SAFETY RAIL COMPANY, which is located at:  
4244 Shoreline Dr.  
Spring Park, MN 55384  
Toll Free: 888-434-2720  
Fax: 888-471-4931  
Web: [www.safetyrailcompany.com](http://www.safetyrailcompany.com)   
Email: [jim.sidla@safetyrailcompany.com](mailto:jim.sidla@safetyrailcompany.com)  
[ [Click Here](http://www.arcat.com/arcatcos/cos47/arc47628.html) ] for additional information.  
Safety Rail Company makes OSHA compliant fall protection systems that are durable and innovative but still affordable. With years of industry experience, our products are engineered first and foremost to SAVE LIVES. Beyond the primary goal of safety, we take our products a step further making them easier to assemble, configure, use and store.  
Our team of safety experts takes pride in our 100 percent American Made fall protection systems and the personal service we provide to our customers. We are firmly committed to providing:  
Dedicated one-on-one service  
Free in depth consultations to ensure you have the exact system you need  
Free, fast 3-D Cad modeling of your system  
Ongoing partnerships that you can depend on for years to come   
Call us today to discuss your fall protection needs or please visit us at our 50,000 sq ft (4645 sq m) manufacturing facility in the Minneapolis area. We look forward to hearing from you!!

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Roof accessories including the following:
       1. Non-penetrating railing system for roof edge fall protection.
       2. Permanent guard rails.
       3. Roof hatch guarding.
       4. Fixed ladder guarding.
       5. Visual warning lines.
       6. Skylight guarding.
       7. Fixed and caged ladders.
       8. Mobile fall arrest and restraint systems.
  1. RELATED SECTIONS

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

* + 1. Section 07 42 00 - Wall Panels.
    2. Section 07 42 13 - Metal Wall Panels.
    3. Section 07 41 13 - Metal Roof Panels.
    4. Section 07 61 00 - Sheet Metal Roofing.
    5. Section 05 50 00 - Metal Fabrications.
  1. REFERENCES

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

* + 1. American National Standards Institute (ANSI): ANSI A14.3 - American National Standards for Ladders - Fixed - Safety Requirements.
    2. American Welding Society: AWS D1.1 - Structural Welding Code - Steel.
    3. American Welding Society: AWS D1.3 - Structural Welding Code - Sheet Steel.
    4. British Standard BS 970 - Specification for wrought steels for mechanical and allied engineering purposes. General inspection and testing procedures and specific requirements for carbon, carbon manganese, alloy and stainless steels.
    5. British Standard BS EN 1562 - Founding. Malleable Cast Irons.
    6. California Occupational Safety & Health Administration (CAL OSHA): 1620 - Design of Temporary Railing.
    7. California Occupational Safety & Health Administration (CAL OSHA): 1621 - Railings and Toe Boards.
    8. California Occupational Safety & Health Administration (CAL OSHA): 1632 - Floor, Roof and Wall Openings to Be Guarded
    9. California Occupational Safety & Health Administration (CAL OSHA): 3211 - Wall Openings.
    10. California Occupational Safety & Health Administration (CAL OSHA): 3212 - Floor Openings, Floor Holes and Roofs.
    11. California Occupational Safety & Health Administration (CAL OSHA): 3213 - Service Pits and Yard Surface Openings.
    12. California Occupational Safety & Health Administration (CAL OSHA): 3214 - Stair Rails and Handrails.
    13. Occupational Safety and Health Administration (OSHA): 29 CFR 1910.28 Duty to Have Fall Protection and Falling Object Protection.
    14. Occupational Safety and Health Administration (OSHA): 29 CFR 1910.29. Walking-Working Surfaces.
    15. Occupational Safety and Health Administration (OSHA): 29 CFR 1910.23 - Fixed Ladders.
    16. Occupational Safety and Health Administration (OSHA): 29 CFR 1926.500 - Scope, Application, and Definitions Applicable to this Subpart.
    17. Occupational Safety and Health Administration (OSHA): 29 CFR 1926.501 - Duty to Have Fall Protection.
    18. Occupational Safety and Health Administration (OSHA): 29 CFR 1926.502 - Fall Protection Systems Criteria and Practices.
    19. Occupational Safety and Health Administration (OSHA): 29 CFR 1926.503 - Training Requirements.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Storage and handling requirements and recommendations.
        3. Installation methods.
     3. Shop Drawings: Drawings showing plans, elevations, sections and details of components. Show member sizes and part identification, fasteners, anchors, fittings and evidence of compliance with structural performance requirements.
     4. Manufacturer's Certificates:
        1. Certify that Railings and Base Castings are made in USA. Provide steel mill and foundry certificates for verification prior to shipment.
        2. Manufacturer must be American Welding Society Welding Certified for Welding Standards AWS D1.1 and AWS D1.3. Third party qualification documentation required prior to shipment.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Deliver materials to the job site in good condition and adequately protected against damage as handrails are a finished product.
     2. Inspect rail sections for damage before signing the receipt from the trucking company. Truck driver must note damaged goods on the bill of lading if damaged product is found.
     3. Store products in manufacturer's unopened packaging until ready for installation.
     4. Products to be palletized and labeled by roof level or designated drop zone.
  3. PROJECT CONDITIONS
     1. Field Measurements: Where handrails and railings are indicated to fit to other construction, check actual dimensions of other construction by accurate field measurements before fabrication.
  4. WARRANTY
     1. Warranty: Provide manufacturer's limited two year warranty.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Safety Rail Company, which is located at: 4244 Shoreline Dr.; Spring Park, MN 55384; Toll Free Tel: 888-434-2720; Fax: 888-471-4931; Email: jim.sidla@safetyrailcompany.com. Web: www.safetyrailcompany.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.

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

* 1. NON-PENETRATING RAILING SYSTEM

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

* + 1. Roof Edge Protection: Provide Safety Rail Company freestanding pedestrian egress barrier system on roof, including pipe railings, uprights, bases, accessories and fittings.
       1. Product: SRC360 Mobile Safety Rail System.
          1. System top and mid rail provided in accordance with OSHA Standards - 29 CFR 1910.29 (b)(1-14).
          2. Structural Load: 200 lb (90.7 kg), minimum, in any direction to all components in accordance with OSHA Regulation 29 CFR 1926.502.
       2. Height: 42 inches (1067 mm), minimum.
       3. Railings: 1-5/8 inch (41 mm) O.D. hot rolled pickled electric weld tubing, free of sharp edges and snag points.
       4. Mounting Bases: 104 lbs (47.2 kg) Class 30 gray iron material cast with four receiver posts. Provide rubber pads on bottom of bases.
       5. Receiver Posts: Provided with a positive locking system into receiver holes that allow rails to be mounted in any direction. Receiver posts shall have drain holes.
       6. Securing Pins: 1010 carbon steel, zinc plated and yellow chromate dipped. Pins shall consist of collared pin and latch that connects to lynch pin.
       7. Accessories:

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

* + - * 1. Toe Board Brackets.
        2. Finishing Rail: D-shaped railing extension for ladder landings, length of rail section and D-loop as indicated on the Drawings and as required.
        3. Roof Pads: Provide additional EPDM Roof Pad under each base to protect roof membrane.
        4. Base Mover: Provide Base Mover, Part No. 400062 two-wheeled steel cart to transport one base unit.
      1. Finish: Steel surfaces.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required from the following paragraphs. Delete those not required.

* + - * 1. Hot dip zinc galvanized.
        2. Factory finished powder coat paint.
        3. Hot dip zinc galvanized and factory finished powder coat paint.

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

* + - * 1. Color: None.
        2. Color: Safety Yellow.
        3. Color: \_\_\_\_\_\_.
        4. Color: Specified by Architect.

\*\* NOTE TO SPECIFIER \*\* Delete Paragraph when not required.

* + 1. Roof Edge Protection: Provide Safety Rail Company freestanding pedestrian egress barrier system on roof, including pipe railings, uprights, bases, accessories and fittings.

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

* + - 1. Product: ACCU-FIT Architectural Series Mobile Guard Rail System.
         1. System top and mid rail provided in accordance with OSHA Standards - 29 CFR 1910.29 (b)(1-14).
         2. Structural Load: 200 lb (90.7 kg), minimum, in any direction to all components in accordance with OSHA Regulation 29 CFR 1926.502.
      2. Product: ACCU-FIT Designer Series Mobile Guard Rail System.
         1. System top and mid rail provided in accordance with OSHA Standards - 29 CFR 1910.29 (b)(1-14).
         2. Structural Load: 200 lb (90.7 kg), minimum, in any direction to all components in accordance with OSHA Regulation 29 CFR 1926.502.
      3. Product: ACCU-FIT Traditional Series Mobile Guard Rail System.
         1. System top and mid rail provided in accordance with OSHA Standards - 29 CFR 1910.29 (b)(1-14).
         2. Structural Load: 200 lb (90.7 kg), minimum, in any direction to all components in accordance with OSHA Regulation 29 CFR 1926.502.
      4. Height: 42 inches (1067 mm), minimum.
      5. Horizontal Railings: NPS 1-1/4 (DN 32) schedule 40 galvanized steel pipe 21 ft (6.4 m) lengths.

\*\* NOTE TO SPECIFIER \*\* Delete type not required, or retain both.

* + - 1. Freestanding Mobile Base Plate: 104 lbs (47.2 kg) Class 30 gray iron material cast with multiple post receivers. Provide rubber pads on bottom of bases. Receiver posts shall have drain holes.
         1. Membrane roofing.
      2. Mechanically Fastened Base Plate: Galvanized base plates with appropriate fastening interface to mechanically attach to metal roof panels.

\*\* NOTE TO SPECIFIER \*\* Delete roof types not applicable to the project.

* + - * 1. Type: Standing seam metal roof, non-penetrating.
        2. Type: R-Panel metal roof, mechanical penetration.
        3. Type: Corrugated metal roof, mechanical penetration.
      1. Receiver Stanchion Posts: Provided with construction pipe to support horizontal railing pipes. Receiver posts shall have drain holes.
         1. Architectural Series (curved).
         2. Designer Series (curved).
         3. Traditional Series (straight).
      2. Base Mover Accessory: Provide Base Mover, Part No. 400062 two-wheeled steel cart to transport one base unit.
      3. Finish: Steel surfaces.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required from the following paragraphs. Delete those not required.

* + - * 1. Hot Dip Zinc Galvanized.
        2. Factory finished powder coat paint.
        3. Hot Dip Zinc Galvanized and factory finished powder coat paint.

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

* + - * 1. Color: None.
        2. Color: Safety Yellow.
        3. Color: \_\_\_\_\_\_.
        4. Color: Specified by Architect.

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

* 1. PERMANENT GUARD RAILS
     1. Roof Edge Protection: Provide Safety Rail Company permanently attached pedestrian egress barrier system on roof, including pipe railings, bases, accessories and fittings.

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

* + - 1. Product: Floor Mount Guardrail System, Permanent.
      2. Product: Floor Mount Guardrail System, Removable.
      3. Product: Face Mount Guardrail System, Removable.
      4. Product: Flush Mount Guardrail System, Removable.
      5. System top and mid rail provided in accordance with OSHA Standards - 29 CFR.29 (b)(1-14).
      6. Structural Load: 200 lb (90.7 kg), minimum, in any direction to all components in accordance with OSHA Regulation 29 CFR 1926.502.
      7. Tested and independently certified to be in accordance with OSHA fall protection for guardrail regulations, sections 29 CFR 1910.29, 29 CFR 1926.500, 29 CFR 1926.502 and 29 CFR 1926.503.
      8. Railings: 1-5/8 inch (41 mm) O.D. hot rolled pickled electric weld tubing, free of sharp edges and snag points.

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

* + - * 1. Railing to be removable from the bases by removing a retention pin.
        2. Railing to be permanently attached to bases and building structure.

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

* + - 1. Height: 42 inches (1067 mm), minimum.
      2. Height: 48 inches (1219 mm), minimum.

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

* + - 1. Length: Available in 1 ft (305 m) increments from 2 to 10 ft (0.61 to 3.05 m) measures to the center of each leg post.
      2. Length (ft / m): \_\_\_\_\_\_.
      3. Length: As specified by Architect.
      4. Single Post Receivers: The first and last piece of a safety railing installation.
      5. Double Post Receiver: The intermediate receiver for in-line railing runs.
      6. Accessories:

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

* + - * 1. Toe Boards.
        2. Safety Gates.
      1. Finish: Steel surfaces.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required from the following paragraphs. Delete those not required.

* + - * 1. Hot Dip Zinc Galvanized.
        2. Factory finished powder coat paint.
        3. Hot Dip Zinc Galvanized and factory finished powder coat paint.

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

* + - * 1. Color: None.
        2. Color: Safety Yellow.
        3. Color: \_\_\_\_\_\_.
        4. Color: Specified by Architect.

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

* 1. ROOF HATCH GUARDING:
     1. Provide Safety Rail Company roof hatch guarding including railings, bases, accessories and fittings.

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

* + - 1. Product: SRC Roof HatchGuard, Non-Penetrating Fall Protection.
      2. Product: SRC Mobile Railing Roof Hatch Guarding.

\*\* NOTE TO SPECIFIER \*\* Delete roof hatch sizes not required. Custom sizes are available.

* + - * 1. Roof Hatch Size (W x L): 30 x 54 in (762 x 1372 mm).
        2. Roof Hatch Size (W x L): 30 x 96 in (762 x 2438 mm).
        3. Roof Hatch Size (W x L): 36 x 30 in (914 x 762 mm).
        4. Roof Hatch Size (W x L): 36 x 36 in (914 x 914 mm).
        5. Roof Hatch Size (W x L): 48 x 48 in (1219 x 1219 mm).
        6. Roof Hatch Size (W x L), (in / mm): \_\_\_\_\_\_.
        7. Roof Hatch Size: As Specified by Architect.
      1. OSHA-compliant fall protection per 29 CFR 1910.29, 29 CFR 1926.501(b) (4) and 29 CFR 1926.502.
      2. One-piece, welded design. No assembly required.
      3. No drilling into hatch or roof. Elastomeric tipped compression bolts are tightened against the curb of the roof hatch.
      4. Self-closing gate included.
      5. 24 in (610 mm) safe landing zone. Personnel can safely step out of the hatch and gain their footing, prior to engaging the gate.
      6. Built-in grab bars.
      7. Finish: Steel surfaces.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required from the following paragraphs. Delete those not required.

* + - * 1. Hot Dip Zinc Galvanized.
        2. Factory finished powder coat paint.
        3. Hot Dip Zinc Galvanized and factory finished powder coat paint.

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

* + - * 1. Color: None.
        2. Color: Safety Yellow.
        3. Color: \_\_\_\_\_\_.
        4. Color: Specified by Architect.

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

* 1. FIXED LADDER GUARDING:
     1. Provide Safety Rail Company SRC roof ladder guarding including railings, bases, accessories and fittings.

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

* + - 1. Product: SRC LadderGuard Lite 7.5 Fixed Ladder Guarding System.
         1. Provides a 36 in (914 mm) wide passageway and extends 7-1/2 ft (2.29 m) onto the roof. Adjustable spanner bars extend the reach another 40 in (1016 mm) allowing for a full length of 10 ft (3.05 m) control zone extending from the ladder.
      2. Product: SRC LadderGuard Lite 15 Fixed Ladder Guarding System.
         1. Provides a 36 in (914 mm) wide passageway and extends 15 ft (4.57 m) onto the roof. Adjustable spanner bars extend the reach another 40 in (1016 mm).
      3. Product: SRC 360 LadderGuard Kit Free-Standing Ladder Guarding System.

\*\* NOTE TO SPECIFIER \*\* Delete extension depth not required.

* + - * 1. Extension depth onto the roof: 7-1/2 ft (2.29 m).
        2. Extension depth onto the roof: 15 ft (4.57 m).
        3. Utilizes weighted cast iron base plates from SRC 360 Mobile Railing System.
        4. Adjustable spanner bars extend the reach another 40 in (1016 mm) allowing for a full length of 10 ft (3.05 m) control zone extending from the ladder.
      1. Non-penetrating system attaches to the vertical rails of the existing ladder.
      2. OSHA-compliant fall protection per 29 CFR 1910.29, 29 CFR 1910.23 (c) (1), and 29 CFR 1926.502.
      3. Self-closing gate included.
      4. Finish: Steel surfaces.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required from the following paragraphs. Delete those not required.

* + - * 1. Hot Dip Zinc Galvanized.
        2. Factory finished powder coat paint.
        3. Hot Dip Zinc Galvanized and factory finished powder coat paint.

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

* + - * 1. Color: None.
        2. Color: Safety Yellow.
        3. Color: \_\_\_\_\_\_.
        4. Color: Specified by Architect.

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

* 1. VISUAL WARNING LINES
     1. Provide Safety Rail Company visual warning line systems and accessories.
        1. Product: Never Rust Temporary Visual Warning Line System.
           1. Channelizing Cone: 42 in (1067 mm) tall high-impact, low-density polyethylene.
           2. Holds flags at 39 in (991 mm) on stanchions.
           3. Base: 30 lbs (13.6 kg) recycled rubber.
           4. Can accommodate a variety of flagged line.
           5. Reinforced, easy grip loop handle.
           6. Stackable with or without bases.
           7. Safety orange color with ultraviolet stabilizer for fade resistance.
           8. Meets federal MUTCD and OSHA standards.
        2. Product: Never Rust Permanent Visual Warning Line System.
           1. Holds flags at 34 to 39 in (864 to 991 mm) on stanchions.
           2. Aluminum stanchion.
           3. Base: 30 lbs (13.6 kg) recycled rubber.
        3. Product: EnduraLine Mobile Permanent Warning Line System.
           1. Mounting Bases: 104 lbs (47.2 kg) class 30 gray iron material cast with four receiver posts.

Membrane roofing.

Standing seam metal roof.

R-Panel metal roof.

Corrugated metal roof.

* + - * 1. Stanchions: 1-5/8 inch (41 mm) O.D. hot rolled pickled electric weld tubing, free of sharp edges and snag points.
        2. Stanchion spacing: 25 ft (7.6 m).
        3. OSHA-compliant fall protection per 29 CFR 1910.29, 29 CFR 1926.502.
        4. Finish: Steel surfaces.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required from the following paragraphs. Delete those not required.

Hot dip zinc galvanized.

Factory finished powder coat paint.

Hot dip zinc galvanized and factory finished powder coat paint.

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

Color: None.

Color: Safety Yellow.

Color: \_\_\_\_\_\_.

Color: Specified by Architect.

* + - * 1. OSHA Flag Height: 39 in (991 mm).
        2. Galvanized Cable with Aluminum Pennants: 100 ft (30.5 m).
      1. Product: SRC X-Stanchion Visual Warning Line System.
         1. Both collapsible and portable for easy transportation.
         2. Stanchion Weight: 38 lbs (17.2 kg).
         3. Vinyl OSHA flags Warning Lines: Stanchion spacing every 50 ft (15.2 m). Heavier flagged warning lines require stanchion spacing of 20 ft (6.1 m) or less.
      2. Product: EnduraLine Heavy-Duty Flags.
         1. Plastic-coated galvanized cable.
         2. Aluminum safety yellow pennants every 6 ft (1.8 m).

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - * 1. Length: 100 ft. (30.5 m).
        2. Length: 200 ft (61 m).
        3. Length: \_\_\_\_\_\_.
      1. Product: OSHA Perimeter Vinyl Warning Line Flags.
         1. Length: 105 ft (32 m).
         2. Exceeds 500 lbs (226.8 kg) tensile strength required by OSHA.
         3. OSHA-compliant fall protection per 29 CFR 1910.29, 29 CFR 1926.502.

\*\* NOTE TO SPECIFIER \*\* Typically skylight protection is required by Code. Delete types not required

* 1. SKYLIGHT GUARDING
     1. Provide Safety Rail Company skylight guarding systems.
        1. Product: Skylight Screens.
           1. Non-penetrating compression-fit design locks the screen onto aluminum skylight frame.
           2. Federal OSHA Compliant: Skylight Sizes (W x L): 61 x 120 in (1549 x 3048 mm) or smaller with 12 in (305 mm) maximum dome height.
           3. CalOSHA Compliant: Skylight Sizes (W x L): 53 x 120 in (1346 x 3048 mm) or smaller with 12 in (305 mm) maximum dome height.
           4. Compliant with Federal OSHA-compliant fall protection which requires 200 lbs (91 kg) load rating per 29 CFR 1910.29, 29 CFR 1926.502 and CalOSHA guidelines which require supporting 400 lbs (181 kg) load. Title 8, Chapter 7, Article 2, 3212(e)(1) Floor, Roof and Wall Openings.
           5. Galvanized finish.
        2. Product: Skylight Guards.
           1. One piece galvanized steel construction design placed over the top of the skylight.
           2. Offers hail protection against large hail stones.
           3. Rubber-tipped compression bolts secure the guard against the curb of the skylight to hold it in place.
           4. No mechanical penetrations in the skylight or roof.
           5. Meets Federal OSHA-compliant fall protection which requires 200 lbs (91 kg) load rating per 29 CFR 1910.29, 29 CFR 1926.502 and CalOSHA guidelines which require supporting 400 lbs (181 kg) load. Title 8, Chapter 7, Article 2, 3212(e)(1).
           6. Custom sizes and colors available.
           7. Finish: Steel surfaces.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required from the following paragraphs. Delete those not required.

Hot Dip Zinc Galvanized.

Factory finished powder coat paint.

Hot Dip Zinc Galvanized and factory finished powder coat paint.

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

Color: None.

Color: Safety Yellow.

Color: \_\_\_\_\_\_.

Color: Specified by Architect.

* + - 1. Product: SRC360 Mobile Safety Rail System.
         1. System top and mid rail provided in accordance with OSHA Standards - 29 CFR 1910.29 (b)(1-14).
         2. Structural Load: 200 lb (90.7 kg), minimum, in any direction to all components in accordance with OSHA Regulation 29 CFR 1926.502.
         3. Height: 42 inches (1067 mm), minimum.
         4. Railings: 1-5/8 inch (41 mm) O.D. hot rolled pickled electric weld tubing, free of sharp edges and snag points.
         5. Mounting Bases: 104 lbs (47.2 kg) class 30 gray iron material cast with four receiver posts. Provide rubber pads on bottom of bases.
         6. Receiver Posts: Provided with a positive locking system into receiver holes that allow rails to be mounted in any direction. Receiver posts shall have drain holes.
         7. Securing Pins: 1010 carbon steel, zinc plated and yellow chromate dipped. Pins shall consist of collared pin and latch that connects to lynch pin.

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

* + - * 1. Accessories:

Brackets: Toe Board Brackets.

Finishing Rail: D-shaped railing extension for ladder landings, length of rail section and D-loop as indicated on the Drawings and as required.

Roof Pads: Provide EPDM Roof Pad under each base to protect roof membrane.

Base Mover: Provide Base Mover, Part No. 400062 two-wheeled steel cart to transport one base unit.

* + - * 1. Finish: Steel surfaces.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required from the following paragraphs. Delete those not required.

Hot Dip Zinc Galvanized.

Factory finished powder coat paint.

Hot Dip Zinc Galvanized and Factory finished powder coat paint.

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

Color: None.

Color: Safety Yellow.

Color: \_\_\_\_\_\_.

Color: Specified by Architect.

* + - 1. Product: Skyview Barrier.
         1. Free-standing and non-penetrating.
         2. Rubber-tipped compression bolts secure the guard against the curb of the skylight to hold it in place.
         3. No mechanical penetrations in the skylight or roof.
         4. Federal OSHA Compliant: Skylight Sizes (W x L): 90 x 120 in (2286 x 3048 mm) or smaller.
         5. OSHA-compliant fall protection per 29 CFR 1910.29, 29 CFR 1926.502.
         6. Finish: Steel surfaces.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required from the following paragraphs. Delete those not required.

Hot dip zinc galvanized.

Factory finished powder coat paint.

Hot dip zinc galvanized and factory finished powder coat paint.

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

Color: None.

Color: Safety Yellow.

Color: \_\_\_\_\_\_.

Color: Specified by Architect.

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

* 1. FIXED AND CAGED LADDERS
     1. Provide Safety Rail Company fixed ladder including railings, bases, accessories and fittings.

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

* + - 1. Product: Fixed Ladders.
         1. Standards Compliance: ANSI A14.3 and 29 CFR 1910.23.
         2. Length: 2 to 20 ft (0.61 to 6.1 m).
         3. Width: 24 in (610 mm).
         4. Material: Steel, round.
         5. Finish: Galvanized.
      2. Product: Caged Ladders.
         1. Standards Compliance: ANSI A14.3 and 29 CFR 1910.23
         2. Length: 7 to 30 ft (2.13 to 9.14 m).
         3. Width: 18 in (457 mm).
         4. Material: Steel, flat.
         5. Finish: Galvanized.
      3. Product: Ships Ladders.
         1. Standards Compliance: ANSI A14.3 and 29 CFR 1910.23
         2. Length: 5 to 25 ft (1.52 to 7.62 m).
         3. Width: 24 in (610 mm).
         4. Material: Steel, round.
         5. Finish: Galvanized.
      4. Accessories:

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

* + - * 1. Step-Over Bars: Extended handles to assist personnel stepping over a parapet wall onto a roof.
        2. Step-Down Ladder: Small ladder rung extension on roof for parapet walls over 12 in (305 mm) high to maintain safe ingress/egress from or to ladder platform.
        3. Security Doors: Prevent unwanted access to ladder rungs. Door is 7 ft (2.13 m)' tall and equipped for lockout and tagout.
        4. Platform Extension: Assists in maintaining sure footing while stepping onto the roof over a parapet, gutter or other obstacle.
        5. Cage Extension: Attaches to existing railing.
      1. Finish: Steel surfaces.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required from the following paragraphs. Delete those not required.

* + - * 1. Hot Dip Zinc Galvanized.
        2. Factory finished powder coat paint.
        3. Hot Dip Zinc Galvanized and factory finished powder coat paint.

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

* + - * 1. Color: None.
        2. Color: Safety Yellow.
        3. Color: \_\_\_\_\_\_.
        4. Color: Specified by Architect.

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

* 1. MOBILE FALL ARREST AND RESTRAINT SYSTEMS
     1. Provide Safety Rail Company non-penetrating mobile fall protection systems.

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

* + - 1. Product: Raptor - Trirex Complete Mobile Fall Protection System for three workers.

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

* + - * 1. Model 150117: Large Mobile Fall Cart with 1-large toolbox.

Weight: 1003 lbs (455 kg).

* + - * 1. Model 150148: Large Mobile Fall Cart with 1-large toolbox and 1-small toolbox.

Weight: 1088 lbs (493.5 kg).

* + - * 1. Model 150149: Large Mobile Fall Cart with 2-large toolboxes.

Weight: 1143 lbs (513.5 kg).

* + - * 1. No assembly required.
        2. No counterweights.
        3. No loose parts.

\*\* NOTE TO SPECIFIER \*\* Delete ratings no required.

* + - * 1. Rated for three person fall arrest and two person fall restraint.
        2. Rated for Concrete Applications: Two person fall arrest, and two person fall restraint.
        3. Positive-locking wheel locks.
        4. Positive-locking front axle.
        5. Engagement Claw Lock keeps claw anchored if a fall occurs.
        6. Flat-free tires; solid polyurethane.
        7. OSHA-compliant: CFR 29 1926.502 (D) Fall Arrest Anchor.
        8. Optional Raptor Alert Fall Warning System.
        9. Optional Raptor Rescue Fall Retrieval System.
      1. Product: Raptor Stinger - Mobile Fall Protection Unit.
         1. Model 150116: Small mobile cart for two workers.

Weight: 797 lbs (361.5 kg).

* + - * 1. Rating for single person fall arrest: 310 lbs (141.6 kg).
        2. Rating for single person fall restraint: 310 lbs (141.6 kg).
        3. Flat-free tires. Solid polyurethane.
        4. OSHA-compliant: CFR 29 1926.502 (D) Fall Arrest Anchor.
        5. No assembly required.
      1. Product: SRC - Mobile Fall Restraint System.
         1. Weight: 705 lbs (319.8 kg).
         2. Six SRC. bases with a center bracket and 5000 lbs (2268 kg) capacity. attachment point, forged D-ring and pins.
         3. Breaks down for transportation.
         4. Single person fall restraint system preventing a worker from reaching a fall hazard.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to 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 manufacturer's instructions, approved submittals and in proper relationship with adjacent construction.
   4. PROTECTION
      1. Protect installed products until completion of project.
      2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION