SECTION 14 41 00

PERSONNEL LIFTS

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\*\* NOTE TO SPECIFIER \*\* Harmar; vertical platform lifts, stair lifts, incline lifts.  
This section is based on the products of Harmar, which is located at:   
2075 47th St.  
Sarasota, FL 34234   
Toll Free: 800-833-0478  
Phone: 941-351-2776  
Fax: 866-234-5380  
Email:   
Web Site: www.harmar.com  
We are innovation and design leaders who seek to help individuals enhance their mobility, independence and quality of life with every product we bring to market. Available only through the finest dealerships around the world, Harmar's vehicle and home accessibility products are designed, built and supported to be the highest quality, most reliable and best value in the industry. Harmar's lifts and ramps are built with "The Harmar Difference" - they are simpler, stronger, lighter and easier to use.  
  
See our SpecWizard: [Click Here](http://www.arcat.com/specwizard/14410har/index.htm)

1. GENERAL
   1. SECTION INCLUDES

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

* + 1. Vertical Platform Lifts:
       1. Residential vertical platform lifts. (Highlander RPL)
       2. Commercial vertical platform lifts. (Highlander CPL)
    2. Stair Lifts:
       1. Outdoor stair lifts. (SL350OD)
       2. Premium stair lifts. (Pinnacle SL600)
    3. Incline Lifts: Sierra inclined platform lifts. (IL500)
  1. RELATED SECTIONS

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

* + 1. Section 03 30 00 - Cast-in-Place Concrete.
    2. Section 05 50 00 - Metal Fabrications.
    3. Section 06 10 00 - Rough Carpentry.
    4. Section 07 72 63 - Waste Containment Assemblies.
    5. Section 08 10 00 - Doors and Frames.
    6. Section 08 31 16 - Access Panels and Frames.
    7. Section 08 71 53 - Security Door Hardware.
    8. Section 09 21 16.23 - Gypsum Board Shaft Wall Assemblies.
    9. Section 09 65 13 - Resilient Base and Accessories.
    10. Section 09 68 16 - Sheet Carpeting.
    11. Section 09 90 00 - Painting and Coating.
    12. Division 16 - Electrical.
  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): ASTM A 500 Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
    2. American National Standards Institute (ANSI): ANSI Z97.1 - Safety glazing materials used in buildings.
    3. American Welding Society (AWS): AWS D1.1 - Structural Welding Code.
    4. American Society of Mechanical Engineers (ASME):
       1. ASME A17.1 - Safety Code for Elevators and Escalators.
       2. ASME A17.5 - Elevators and Escalators Electrical Equipment.
       3. ASME A18.1 - Safety Code for Platform and Stairway Chairlifts.
    5. Canadian Standards Association (CSA): CAN/CSA-B44.1 - Elevator and Escalator Electrical Equipment.
    6. National Fire Protection Association (NFPA): NFPA 70 - National Electrical Code.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets for each product specified, including but not limited to:
        1. Performance characteristics.
        2. Preparation instructions and recommendations.
        3. Storage and handling requirements and recommendations.
        4. Installation Instructions.
     3. Shop Drawings: Provide shop drawings showing details including but not limited to locations, components, anchorage requirements, accessories, tolerances, clearances and layout of lift equipment.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each assembly type, two complete sets of samples representing manufacturer's full range of available material finishes.
    2. Verification Samples: For each finish product specified, two samples representing actual material finishes.
  1. QUALITY ASSURANCE
     1. Single Source Requirements: To the greatest extent possible, provide products specified in this section from a single manufacturer.
     2. Manufacturer's Qualifications: Successfully engaged in the manufacture of products specified in this section for at least 5 years.
     3. Installer Qualifications: Successfully engaged in installation of systems of similar type and scope and approved by manufacturer.
        1. Welders certified in accordance with requirements of AWS D1.1.
  2. DELIVERY, STORAGE AND HANDLING
     1. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
     2. Store products indoors and under cover in manufacturer's or fabricator's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from 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 absolute limits.
  4. SEQUENCING AND SCHEDULING
     1. Conference: Convene a pre-installation conference to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.
        1. Review hoistway, electrical, and other requirements with appropriate representatives.
  5. WARRANTY
     1. Manufacturer's Warranty: Standard limited warranty against defects in materials and manufacturing.

\*\* NOTE TO SPECIFIER \*\* Delete options for warranty periods not required.

* + - 1. Warranty Period: For racks, 10 years.
      2. Warranty Period: For hydraulic drive systems, 2 years.
      3. Warranty Period: For in-line geared systems, 1 year.
      4. Warranty Period: For batteries, 1 year.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Harmar, which is located at: 2075 47th St.; Sarasota, FL 34234 ; Toll Free Tel: 800-833-0478 ; Tel: 941-351-2776; Fax: 866-234-5380; Email: [request info (david.baxter@harmar.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Harmar&coid=47189&rep=&fax=866-234-5380&message=RE:%20Spec%20Question%20(14410har):%20%20&mf=); Web: [www.harmar.com](http://www.harmar.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 if not required.

* 1. VERTICAL PLATFORM LIFTS

\*\* NOTE TO SPECIFIER \*\* Harmar's all new Residential Vertical Platform Lift is a safe, smooth and economical solution to the barriers porches and other elevation changes can create in and around a home. Designed from the ground up to be as cost-efficient as possible. Available in heights from 4 to 6 feet, the Highlander is priced to be competitive with shorter units but built to accommodate most residential applications with ease. As with all Harmar lifts, the RPL is simple to install, easy to operate and virtually maintenance-free for use indoors and out. Delete if not required.

* + 1. Vertical Platform Lifts: Highlander model RPL residential wheelchair lifts as manufactured by Harmar.
       1. Compliance:
          1. Designed and tested in accordance with ASME A17.5 and A18.1.
          2. ETL Listed: 3148125.
          3. Guide Rail Materials: ASTM A 500 grade B steel tubing.
       2. Description: Machine housing and lifting platforms sized to project requirements.

\*\* NOTE TO SPECIFIER \*\* Delete options for drive systems not required.

* + - 1. Drive Systems: As indicated on Drawings.
      2. Drive Systems: Belt driven ACME screw drive; 1/3 hp, 90 VDC motors.
      3. Drive Systems: Belt driven ACME screw drive; 1/3 hp, 24 VDC motor with two 12 V, 33 AH, (battery powered) sealed lead acid batteries with 24 V 4 amp battery charger.
      4. Number of Stops: Two.

\*\* NOTE TO SPECIFIER \*\* Delete options for platform configuration not required.

* + - 1. Platform Configuration: As indicated on Drawings.
      2. Platform Configuration: 90 degrees.
      3. Platform Configuration: Straight through.

\*\* NOTE TO SPECIFIER \*\* Delete options for maximum travel not required.

* + - 1. Maximum Travel: As indicated on Drawings.
      2. Maximum Travel: 53 inches (1346 mm).
      3. Maximum Travel: 77 inches (1955 mm).
      4. Rated Load: 600 lb (272 kg); minimum safety factor of 5.
      5. Rated Speed: 10 fpm (3.05 mpm).

\*\* NOTE TO SPECIFIER \*\* Delete options for platform size not required.

* + - 1. Platform Size: As indicated on Drawings.
      2. Platform Size: 36 inches x 48 inches (914 mm x 1219 mm), with 36 inch (914 mm) high guard panels.
      3. Platform Size: 36 inches x 54 inches (914 mm x 1371 mm), with 36 inch (914 mm) high guard panels.
      4. Main Power Supply Wiring: Provide 115 VAC, single phase, 20 amp, 60 Hz power circuit.
      5. Operating Features:
         1. Platform Controls: Rocker switch, constant pressure operation; emergency stop switch.

\*\* NOTE TO SPECIFIER \*\* Delete options for landing controls not required.

* + - * 1. Landing Controls: As indicated on Drawings.
        2. Landing Controls: Wired controls.
        3. Landing Controls: Wireless controls.
        4. Electrical System: Grounded, with upper, lower and final limit switches and 24V operating controls.
        5. Obstruction Sensors: Platform under panel equipped with obstruction sensors.
        6. Ramps: Automatic folding ramps.
        7. Floor and Ramp Finishes: Non-slip surfaces.
        8. Lowering Devices: Manual.
        9. ACME Safety Nut device with monitor.

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

* + - 1. Upper Landing Gates/Doors: 42 inches (1067 mm) high, self closing gate with electromechanical interlock.
      2. Machine Towers: 18 gauge steel sheet.
      3. Guide Rails: 3 inch x 2 inch x 3/16 inch (76 mm x 51 mm x 4.76 mm) ASTM A 500 grade B steel tubing.
      4. Base Frames: 1/4 inch (6 mm) structural steel plate and tubing.
      5. Lift Weldments: 1/4 inch (6 mm) cold rolled steel plate and structural steel tubing.
      6. Side Guard Panels: 18 gauge structurally formed steel sheet.
      7. Front Access Panels: 18 gauge steel sheet.
      8. Platforms: 10 gauge steel plate.
      9. Folding Access Ramps: 10 gauge steel plate.
      10. Finishes on Steel Panels: Powder coating.

\*\* NOTE TO SPECIFIER \*\* Harmar's all new Commercial Vertical Platform Lifts are manufactured to meet or exceed the most current safety design standards and have been ETL Listed. The CPL series was designed with precision and care to be an incredibly high-quality, code compliant access solution. With heights available from 4 feet to 14 feet, Harmar's Highlander series is sure to meet your every need. As with all Harmar lifts, the CPL is simpler to install, easy to operate and virtually maintenance free for use indoors and out. Delete if not required.

* + 1. Vertical Platform Lifts: Highlander model CPL commercial vertical platform lifts as manufactured by Harmar.
       1. Compliance:
          1. Designed and tested in accordance with ASME A17.5 and A18.1.
          2. ETL Listed: 3148125.
          3. Guide Rail Materials: ASTM A 500 grade B steel tubing.
          4. Acrylic Panels: ANSI Z97.1 approved dark and clear acrylic panels.
       2. Description: Machine housing and lifting platforms sized to project requirements.

\*\* NOTE TO SPECIFIER \*\* Delete options for drive systems not required.

* + - 1. Drive Systems: As indicated on Drawings.
      2. Drive Systems: AC powered reticulating ballscrew drive; 1/3 hp, 90 VDC motors.
      3. Drive Systems: Battery powered ballscrew drive; 1/3 hp, 24 VDC motor with two 12 V, 33 AH, sealed lead acid batteries with 24 V 4 amp battery charger.

\*\* NOTE TO SPECIFIER \*\* Delete options for number of stops not required.

* + - 1. Number of Stops: As indicated on Drawings.
      2. Number of Stops: Two.
      3. Number of Stops: Three.

\*\* NOTE TO SPECIFIER \*\* Delete options for platform configuration not required.

* + - 1. Platform Configuration: As indicated on Drawings.
      2. Platform Configuration: 90 degrees.
      3. Platform Configuration: Straight through.
      4. Platform Configuration: Enter/exit same side.

\*\* NOTE TO SPECIFIER \*\* Delete options for maximum travel not required.

* + - 1. Maximum Travel: As indicated on Drawings.
      2. Maximum Travel: 53 inches (1346 mm).
      3. Maximum Travel: 77 inches (1955 mm).
      4. Maximum Travel: 101 inches (2565 mm).
      5. Maximum Travel: 125 inches (3175 mm).
      6. Maximum Travel: 149 inches (3784 mm).
      7. Maximum Travel: 171 inches (4343 mm).
      8. Rated Load: 750 lb (340 kg); minimum safety factor of 5.
      9. Rated Speed: 10 fpm (3.05 mpm).

\*\* NOTE TO SPECIFIER \*\* Delete options for platform size not required.

* + - 1. Platform Size: As indicated on Drawings.
      2. Platform Size: 36 inches x 54 inches (914 mm x 1371 mm), with 42 inch (1067 mm) high guard panels.
      3. Platform Size: 36 inches x 60 inches (914 mm x 1524 mm), with 42 inch (1067 mm) high guard panels.
      4. Platform Size: 42 inches x 60 inches (1067 mm x 1524 mm), with 42 inch (1067 mm) high guard panels.
      5. Main Power Supply Wiring: Provide 115 VAC, single phase, 20 amp, 60 Hz power circuit.

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

* + - 1. Locks: Provide lift manufacturer's key locks.
      2. Operating Features:
         1. Platform Controls: Directional paddle switches, constant pressure operation; emergency stop switches with alarm and illuminated alarm buttons.

\*\* NOTE TO SPECIFIER \*\* Delete options for landing controls not required.

* + - * 1. Landing Controls: As indicated on Drawings.
        2. Landing Controls: Wired controls.
        3. Landing Controls: RF Wireless controls.
        4. Electrical System: Grounded, with upper, lower and final limit switches and 24V operating controls.

\*\* NOTE TO SPECIFIER \*\* Delete options for ramps not required.

* + - * 1. Ramps: As indicated on Drawings.
        2. Ramps: Fixed ramp with incline of 1:12.
        3. Ramps: Automatic folding ramps.
        4. Obstruction Sensors: Platform under panel equipped with obstruction sensors.
        5. Floor and Ramp Finishes: Non-slip surfaces.
        6. Lowering Devices: Manual.
        7. Grab rails on platforms.
        8. Integral ballscrew safety devices and electromechanical brakes.

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

* + - * 1. Provide optional pit switches.

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

* + - * 1. Provide optional telephone jacks on platforms.

\*\* NOTE TO SPECIFIER \*\* Delete options for upper landing Gates/Doors not required.

* + - 1. Upper Landing Gates/Doors: As indicated on Drawings.
      2. Upper Landing Gates: 42 inches (1067 mm) high, self closing gates with electromechanical interlocks.
      3. Upper Landing Doors: 80 inch (2032 mm) self closing, flush mount, 1-1/2 hour fire rated doors with electromechanical interlock and 3 inch x 26 inch (76 mm x 660 mm) glass vision panel.

\*\* NOTE TO SPECIFIER \*\* The following option applies to lifts with 3 stops. Delete if not required.

* + - 1. Lower/Middle Landing Doors: 80 inch (2032 mm) self closing, flush mount, 1-1/2 hour fire rated door with electromechanical interlock and 3 inch x 26 inch (76 mm x 660 mm) glass vision panel.

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

* + - 1. Gate/Door Operation: As indicated on Drawings.
      2. Gate/Door Operation: Manual.
      3. Gate/Door Operation: Automatic.
      4. Machine Towers: 18 gauge steel sheet.
      5. Guide Rails: 3 inch x 2 inch x 3/16 inch (76 mm x 51 mm x 4.76 mm) ASTM A 500 grade B steel tubing.
      6. Base Frames: 1/4 inch (6 mm) structural steel plate and tubing.
      7. Lift Weldments: 1/4 inch (6 mm) cold rolled steel plate and structural steel tubing.
      8. Side Guard Panels: 18 gauge structurally formed steel sheet.
      9. Front Access Panels: 18 gauge steel sheet.
      10. Platforms: 10 gauge steel plate.
      11. Folding Access Ramps: 10 gauge steel plate.
      12. Finishes on Steel Panels: Powder coating.

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

* 1. STAIR LIFTS

\*\* NOTE TO SPECIFIER \*\* Harmar's outdoor Stair lift is the perfect solution to safely and effortlessly traverse your staircase in complete comfort. The SL350OD is designed to withstand years of outdoor use while maintaining all the comfort and convenience of the SL350AC. A combination of the standard weather-tight component cover, weather-tight header cover, weather-tight seat and unit cover, and the anodized aluminum extrusion track help protect this stair lift from the elements year-round. Delete if not required.

* + 1. Stair Lifts: SL350OD Outdoor Stairway Lifts as manufactured by Harmar.
       1. Location of Manufacture: United State of America.
       2. Compliance: Designed and tested in accordance with ASME A18.1.
       3. Application: Designed for straight stairways; outdoor applications acceptable with operating temperature ranging from 0 degrees F to 125 degrees F (-17 degrees C to 51 degrees C).
       4. Power Supply: 115 VAC, 15 amp single phase power to operate lift.
       5. Rated Load: 350 lbs (158 kg).
       6. Rated Speed: 20 fpm (6.1 mpm).

\*\* NOTE TO SPECIFIER \*\* Fill in blank below with designation for maximum travel up to 20 ft (6.1 m) or delete line as applicable. Delete options for maximum travel not required.

* + - 1. Maximum Travel: \_\_\_\_\_\_\_\_\_.
      2. Maximum Travel: As indicated on Drawings.
      3. Maximum Travel: Standard, 16 feet (4.9 m).
      4. Maximum Travel: 20 feet (6.1 m).
      5. Angle of Incline: Can range from 30 degrees to 45 degrees.
      6. Drive System: 3/16 inch (4.76 mm) aircraft cable.

\*\* NOTE TO SPECIFIER \*\* Delete options for controls not required.

* + - 1. Controls: As indicated on Drawings.
      2. Controls: Constant pressure arm, 24 VAC; located on armrest of the seat assembly.
      3. Controls: Wireless call-send, 24 VAC.
      4. Motors: 1/3 HP 90 VDC.
      5. Seat Size: 19 inches W x 14 inches D x 14 inches H (483 mm W x 356 mm D x 356 H).
      6. Seat Swivels: 90 degree with locking device and seat cut-off switch.
      7. Safety Features: Slack cable switch, upper and lower limits, upper final limit, obstruction footrest safety switches, locking swivel seat cut-off switch, self-locking worm gear and seat belt.
      8. Track: Extruded aluminum.
      9. Mounting: Mounts to steps of staircase.
      10. Clearances:
          1. Unfolded: Unit shall be maximum 24 inches (610 mm) from the back wall.
          2. Folded: Unit shall be maximum of 13-3/4 inches (349 mm) from the back wall.
      11. Brackets Locations: Mounted to the step with mounting hardware.
          1. Minimum 2 brackets per section of track.
          2. Minimum length of a section is 24 inches (610 mm).
          3. One step down from top landing.
          4. One step up from the bottom landing.
          5. One bracket before a splice.
          6. One bracket after the splice.

\*\* NOTE TO SPECIFIER \*\* The Pinnacle is the true essence of an affordable and necessary luxury. At only 10 inches wide when folded (11 inches from wall when installed), it is the slimmest and most light-weight stair lift on the market. Although exceptionally compact, the Pinnacle boasts a 350 lb (160 kg) capacity and features a wide, comfortable seat that swivels at the top landing to aid in safely getting on and off the lift.

Safety sensors prevent the lift from running if the seat is not in the proper position or if something is blocking the stairway or track. Because of its patented drive system, the Pinnacle requires less energy to operate and can make up to 40 trips should the power go out! The unique drive system does not require any messy greases or lubricants! Delete if not required.

* + 1. Stair Lifts: SL600 Pinnacle Premium stairway chairlifts as manufactured by Harmar.
       1. Compliance: Designed and tested in accordance with ASME A18.1.
       2. ETL Listed: 3148125.
       3. Application: Designed for straight stairway, designed for indoor application only.
       4. Power: 115 VAC, 15 amp single phase power to operate lift.
       5. Rated Load: 350 lbs.
       6. Rated Speed: 17 fpm (5.2 mpm).

\*\* NOTE TO SPECIFIER \*\* Fill in blank below with designation for maximum travel up to 70 ft (21.3 m) or delete line as applicable. Delete options for maximum travel not required.

* + - 1. Maximum Travel: \_\_\_\_\_\_\_\_\_.
      2. Maximum Travel: As indicated on Drawings.
      3. Maximum Travel: 70 feet (21.3 m) maximum.
      4. Standard Track Length: 16 ft (4877 mm).
      5. Angle of Incline: Ranges from 32 degrees to 45 degrees.
      6. Drive System: Polymer worm/worm-rack.

\*\* NOTE TO SPECIFIER \*\* Delete options for controls not required.

* + - 1. Controls: As indicated on Drawings.
      2. Controls: Constant pressure arm, 24 VAC; located on armrest of the seat assembly.
      3. Controls: Wireless call-send, 24 VAC.
      4. Motors: 24 VDC 8.27 amp with 24 VDC brake.
      5. Seat Swivel: 90 degrees with locking device.
      6. Safety Features: Overspeed, upper and lower limits, upper and lower final limits, footrest safeties, locking swivel seat cut-off switch and seat belt.
      7. Track: Extruded aluminum.

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

* + - 1. Track Features: Provide optional folding track at lower end of track.
      2. Mounting: Mounts to steps of staircase.
      3. Folded Distance From Wall: 11 inches (279 mm).
      4. Unfolded Distance: 23-3/4 inches (603 mm).
      5. Clearances:
         1. Unfolded, the unit shall be at a maximum of 23-3/4 inches (603 mm) from the back wall.
         2. Folded: Unit shall be maximum of 11 inches (279 mm) from the back wall.
         3. The track shall be at a maximum of 6-1/2 inches (165 mm) from the back wall.
      6. Brackets Locations: Mounted to the step with mounting hardware.
         1. Minimum 2 brackets per section of track.
         2. Minimum length of a section is 24 inches (610 mm).
         3. One step down from top landing.
         4. One step up from the bottom landing.
         5. One bracket before a splice.
         6. One bracket after a splice.
      7. Terminal Stopping Devices: Manufacturer's standard terminal stopping devices shall be provided at top and bottom of track.

\*\* NOTE TO SPECIFIER \*\* Now available! The unique and innovative IL500 Sierra Inclined Platform lift is an effective and space efficient solution to overcoming the obstacles stairs can create in a home. With the Sierra you and your wheelchair or scooter can ascend your staircase so you can again enjoy your entire home. For even greater accessibility the Sierra can be installed and used outdoors! Delete if not required.

* 1. INCLINE LIFTS
     1. Incline Lifts: IL500 Sierra inclined platform lifts as manufactured by Harmar.
        1. Compliance: Designed and tested in accordance with ASME A18.1.
        2. ETL Listed: 3148125.
        3. Description: Machine housing, lifting platform at an incline from lower to upper landing on straight staircase.
        4. Drive Systems: Rack and worm gear, 24 VDC 1/8 hp motor with brakes.
        5. Power Supply: 115 VAC 15 amp grounded circuit.
        6. Rated Load: 500 lb (226 kg).
        7. Maximum Travel: 40 feet (21.3 m) maximum.
        8. Travel: 40 feet (12.2 m) maximum.
        9. Rated Speed: 14 fpm (4.3 mpm).
        10. Angle of Incline: Can range from 32 degrees to 45 degrees.
        11. Number of Stops: Two.
        12. Platform Configuration: As indicated on Drawings.
        13. Platform Configuration: Standard 25 inch x 36 inch (635 mm x 914 mm) platform.
        14. Platform Configuration: 27-1/2 inches x 36 inches (699 mm x 914 mm) 90 degree exit platform.
        15. Platform Configuration: 27-1/2 inches x 36 inches (699 mm x 914 mm) platform.
        16. Platform Material; 1 inch x 1 inch x 1/8 inch (25 mm x 25 mm x 3.2 mm) tubing with 12 gauge aluminum platform top.
        17. Guide Rails: Extruded aluminum.
        18. Chassis Material: 3/16 inch (4.76 mm) steel plate.
        19. Panel Finishes: Powder coated steel.
        20. Access Ramps: 12 gauge aluminum.

\*\* NOTE TO SPECIFIER \*\* Delete options for ramps not required.

* + - 1. Ramps: As indicated on Drawings.
      2. Ramps: Manual.
      3. Ramps: Automatic folding ramps.
      4. Folded Width: 13 inches (330 mm).
      5. Controls: Constant pressure rocker switch on platform; infrared call/send control.

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

* + - 1. Locks: Provide optional key locks.

\*\* NOTE TO SPECIFIER \*\* Delete options for seats not required.

* + - 1. Seats: As indicated on Drawings.
      2. Seats: Standard.
      3. Seats: Provide optional folding seats.

\*\* NOTE TO SPECIFIER \*\* Delete options for mounting not required.

* + - 1. Mounting: As indicated on Drawings.
      2. Mounting: Standard, to tread of steps.
      3. Mounting: Provide optional free-standing mounting posts.
      4. Safety Features:

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

* + - * 1. Provide optional emergency stop.
        2. Overspeed governor.
        3. Upper and lower landing limits.
        4. Upper and lower final limits.
        5. Ramp obstruction sensors.
        6. Under platform safety pan obstruction sensors.
        7. Drive chassis obstruction sensors.
        8. Non-skid surfaces.

1. EXECUTION
   1. EXAMINATION AND PREPARATION
      1. Prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions.
      2. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
      3. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
   2. INSTALLATION
      1. Install products in accordance with manufacturer's instructions and in proper relationship with adjacent construction.
      2. Compliance: Welders certified in accordance with requirements of AWS D1.1.
      3. Adjustment: Adjust lift for proper operation and clean unit thoroughly.
      4. Demonstration and Training: Instruct Owner in operation procedures and maintenance.
      5. Maintenance: Establish a program of maintenance in accordance with manufacturer's instructions.
   3. CLEANING AND PROTECTION
      1. Touch-up, repair or replace damaged products before Substantial Completion.
      2. Protect installed products and finishes from damage during construction.

END OF SECTION