

**Jefferson County School District, R-1**  
**Support Services**

**TECHNICAL GUIDELINES**

**DIVISION 14 – CONVEYING EQUIPMENT**

**AUGUST 2022**

**Jefferson County School District, R-1 TECHNICAL GUIDELINES 2022**

**Division 14 – Conveying Equipment**

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## DIVISION 14 – CONVEYING EQUIPMENT

### 14 20 00 Elevators – August 2021

- General
  - Work in this Section is restricted to products and manufacturers as listed in these Technical Guidelines
  - Elevators shall be installed in strict accordance with the Colorado Division of Oil and Public Safety - Conveyances.
  - The Contractor shall provide the district with the final inspection report indicating that the elevator installed complies with all appropriate state and federal codes and regulations. This includes all associated items provided by the manufacturer.
  - Testing and Inspections – Post Installation:
    - Submit a Contact list to include an emergency contact and phone number for both business hours and after-hours contact.
    - Provide shop drawings for elevator controls that can be stored on site as well as MCP manual that is required by the State.
    - Provide 9 maintenance inspections during the first year only and one third party inspection at the end of 12 months of operation.
  - Owner will procure third party inspection services
  - Demonstration
    - Provide complete operations and training for district staff
    - Training shall include, but may not be limited to:
      - Enabling and disabling the elevator
      - Instruction in the operation of all safety devices
      - Instruction in the activating of all “reset” operations and devices in any part of the elevator equipment
      - Instruction in the normal operating condition and inspection of equipment to determine if maintenance is needed
      - Troubleshooting guide
      - Demonstration of fire service and emergency phone operation
      - Proper cleaning methods and approved cleaning chemicals
  - One year warranty and maintenance service agreement
    - Will require coordination and reference to the School District’s Maintenance Terms and Conditions of the Master Agreement
  - Acceptable Manufacturers:
    - TK Elevator
    - KONE
    - Otis
    - Schindler

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- Installer Qualifications:
  - Certified by elevator manufacturer
  - Union Signatory
- Elevator Types:
  - Hydraulic or Traction in coordination with the District Project Manager
- Hall Call Stations:
  - Brushed stainless steel finish with vandal-resistant buttons.
  - Flush mounted panels are preferred
  - Card Reader device mounted on wall adjacent to call button station
- Materials and Finishes:
  - #4 brushed stainless steel vandal resistant buttons and panels
  - Doors and Frames: #4 brushed stainless steel
  - Cab Floor: Carpet meeting requirements of Section 09 68 00.
  - Cab Walls: #4 brushed stainless steel
  - Handrails: #4 brushed stainless steel
  - Ceiling: #4 brushed stainless steel paneled ceiling with recessed LED downlights
  - Accessories: Pad hooks and protective wall pads
- Cab Enclosures
  - Emergency telephones shall dial into the school district's dispatch and security desk by dialing (303) 982-2440 (2-2440).
    - Coordinate with District Project Manager for phone number for each cab
  - An electrical receptacle for housekeeping purposes shall be provided in the corridor adjacent to the elevator landing on each floor.
  - Elevators must comply with the requirements of the Americans with Disabilities Act (ADA).
- Machine Rooms, Hoistway, and Pit Areas
  - Machine rooms, hoistways, and pit areas shall be accessible through common areas or maintenance areas only
  - Pit Areas
    - Sump Pump capable of 3,000 gpm
    - Oil Minder and oil/water separator at hydraulic elevators
  - Machine Rooms
    - Required with Hydraulic Elevators
    - Locate Controllers, Power Unit, Fire Life Safety and Relays. Main Electrical Breaker, Manuals
  - Hoistways
    - Construction type to be determined by architect.
  - Controllers
    - Solid State starters
    - Non-Proprietary, not patented or copyrighted. Elevator controllers shall be non-proprietary in their design to allow for other elevator companies to work on the equipment without the use of special tools, passwords and any more technical expertise than is already possessed.

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- The installation company shall provide all necessary tools for the purpose of monitoring and or adjusting elevator controllers. This includes any special software or handheld devices normally used.
- Keys and Keyed Switches:
  - Install key switches with barrel keys.
    - i. Fire Service: FEOK-1 barrel key
    - ii. Hatch access/enable: 514 barrel key
    - iii. Car stop switch: 512 barrel key
    - iv. Fan: 513 barrel key
    - v. Cab light: 511 barrel key
    - vi. Independent service: 513 barrel key
    - vii. Hall pushbutton security: 516 barrel key
  - Adjust all locks to allow them to easily open without risk of twisting and breaking keys
  - Provide five (5) sets of keys for district staff.
  - Separate Card Reader shall be installed to unlock elevator controls and call buttons

END SECTION 14 20 00