

**Christian County Courthouse
Elevator Modernization**

SCOPE OF WORK (field verify existing conditions)

	MID LOBBY HYDRAULIC
Pump Unit	New Submersible Power Unit (remote) New Shut Off Valve Kit New Oil
Control System	New Controller (wall mounted) New Machine Room Wiring
Car Door Equipment	New Front Car Door Operator / Kit New Infrared door detector New Front Car Door and Hatch Side Restrictors (vanes)
Cab/Platform/Car Fixtures	New Car Top Railing New Main Car Station Includes: Custom finish, Applied panel, Braille Plates, Digital Position Indicators, Standard Key Switch Package, Locked Service Cabinet, ADA Phone System, Emergency Light, Vandal Resistant Floor Buttons New Car Position Indicator New Car Riding Lantern (Standard) New Hands Free Phone New Emergency Lighting
Hall and Lobby Fixtures	New Hall Stations at all floors New Jamb Braille New Hall Lanterns New Hoistway Access Switch
Hoistway Equipment	New Car Top Inspection Station New Leveling Unit / Landing System
Hoistway Door Equipment	New Hatch Door Equipment (complete)
Hoistway Wiring	New Traveling Cable / Car Wiring New Hoistway Wiring Package New Hoistway Duct Kit
Pit	New Pit Switch
Related Work	Provide related work as required by Code

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WORK INCLUDED (TURNKEY MODERNIZATION PROPOSAL)

Contractor is to field verify existing requirements and include associated costs in their modernization proposal. The following is a list of those items that are to be included in the turnkey modernization proposal:

1. Electrical:
 - a. suitable connections from the power main to each controller and signal equipment feeders as required, including necessary circuit breakers and fused mainline disconnect switches per N.E.C. Suitable power supply capable of operating the new elevator equipment under all conditions;
 - b. the wiring to the controller for car lighting per N.E.C. Articles 620-22 and 620-51;
 - c. a means to automatically disconnect the main line and the emergency power supply to the elevator prior to the application of water in the elevator machine room that shall not be self-resetting;
 - d. wiring and conduit from life safety panel or any other monitor station to the elevator machine room or a suitable connection point in hoistway;
 - e. a bonded ground wire, properly sized, from the elevator controller(s) to the primary building ground; and all remote wiring to the outside alarm bell as requested by all applicable code provisions
 - f. a dry set of contacts which close 20 seconds prior to the transfer from normal power to emergency power or from emergency power to normal power whether in test mode or normal operating conditions in the event that an emergency power supply will be provided for the elevator;
 - g. automatic time delay transfer switch and auxiliary contacts with wiring to the designated elevator controller and
 - h. electrical cross connections between elevator machine rooms for emergency power purposes
 - i. the following emergency power provisions are not included: interface in controller, pre-testing and testing, emergency power keyswitches;
 - j. emergency power operation is included as part of the design of the elevator control system and based on each car in the group only, to properly sequence, one at a time to the programmed landing, and park. The design requires that the generator, transfer switch, and related circuitry are sufficient to run this function or any other function for any building other system that is associated with this project.
2. Machine Room: a legal machine room, adequate for the elevator equipment, including floors, trap doors, gratings, foundations, lighting and a machine room temperature maintained between 50 and 90 degrees Fahrenheit, with a relative humidity less than 95% non-condensing;
3. Heat and Smoke Sensing Devices: heat and smoke sensing devices at elevator lobbies on each floor, machine room, and hoistways with normally open dry contacts terminating at a properly marked terminal in the elevator controller;
4. Removal of Obstructions (if required): the cutting and patching of walls, floors, etc. and removal of such obstructions as may be necessary for proper modernization of the elevator(s);
5. Fire Rating (if required): the furnishing, installing and maintaining of the required fire rating of elevator hoistway walls, including the penetration of firewall by elevator fixture boxes;
6. Painting: all painting, except as otherwise specifically included herein
7. Cartop Operator: provide cartop operator, as required, for subcontractors to perform work in the hoistway.

WORK NOT INCLUDED (BY OWNER)

1. Equipment Storage: the provision of a dry and secure area at the project site for storage of the elevator equipment at the time of delivery and the provision of adequate ingress and egress to this area. Any relocation of the equipment as directed by the Purchaser after its initial delivery will be at Purchaser's sole expense.
2. Dedicated Telephone Lines: a dedicated telephone line to elevator each controller recognizing that the elevator telephone is required by code to be monitored 24 hours a day, 7 days a week; one additional telephone line per group of elevators for diagnostic capability wired to designated controller.