ELEVATOR CONTROLS
A VANTAGE Company
Phone: (916) 428-1708, Fax: (916) 428-1728
Email: sales@elevatorcontrols.com

AC Controller Data Forms

Project Data

Job Name: | EC Job Number:

Date Received:

Instructions:

1. Please fill out these data forms as completely as possible. Incomplete data may delay delivery.
2. A blank or no selection will be considered as item not applicable to this project.
3. All applicable data should be measured on the existing equipment, when it is to be retained.
4. The bottom landing shall be referred to as landing 1, and shall be the reference landing without regard to the building floor labels.
5. Required fields will be displayed in **BOLD/RED**. Conditionally required fields will be displayed in *ITALICS/BLUE*
6. Contact Elevator Controls Corporation engineering department at 916-428-1708, if any questions arise regarding the required data.

NOTE: Your controller will be built according to the data furnished herein.

EC Quote #: P.O. #: Customer #:

Job Name:
Job Location:
Job Address:
Job City:
Job State: Zip Code:

☐ Yes ☐ No Job Specifications
☐ Yes ☐ No Specifications have been sent to EC
Consultant:
Contact:
Phone: Fax:
Email:

Contractor Information:
Company:
Contact Name:
Address:
City:
State: **Zip Code:**
Phone: Fax:
Email:

Installation Type: ☐ New Construction ☐ Modernization
Duty Type: ☐ Passenger ☐ Service ☐ Freight
Building Classification:
☐ Office ☐ Hotel, Apartment, Condo
☐ Government ☐ Hospital/Medical Facility
☐ School or University ☐ Prison/Jail
☐ Other:

Shipping Information:
Company:
Contact Name:
Shipping Address:
City: **State:** **Zip Code:**
Phone: Fax:
Email:
Notice Required:
☐ 24 Hours ☐ 48 Hours ☐ Other:
Shipping Method: ☐ Ground ☐ Air
☐ Lift gate truck required

Motor(s) ship to address (if supplied by EC):
Motor Reference #:
☐ Same as above shipping information
Contact Name:
Shipping Address:
City: *State:* *Zip Code:*
Phone: Fax:
Email:

Code Compliance United States:
A17.1-20xx/B-44-20xx
☐ -22 ☐ -19 ☐ -16 ☐ -13
☐ -10 ☐ -07 ☐ -04 ☐ Other
Explain (other)
Additional state or local code compliance:
☐ Chicago ☐ Nebraska
☐ GSA/Federal ☐ New York City
☐ Michigan ☐ Washington (Seattle)
☐ Other

☐ Additional Compliance Requirements? Explain

Delivery Schedule

Controller	On-Site Date
Car	
Car	
Car	
Car	
Group	
Cross Registration Panel	

Data Forms Completed By:
Name/Title:
Phone: Fax:
Mobile:
Email:
Company:
Signature:

ELEVATOR CONTROLS

Hoistway Data

Pixel

AC Controller Data Forms

Job Name: | EC Job Number:

Instructions:
1. Place an "X" in the appropriate box to indicate a floor opening. (F=Front & R=Rear)
2. To ensure the proper Landa stainless steel coded tape length, indicate all floor heights (including overhead and pit).
3. Provide an additional hoistway data page for each elevator that has different floor heights or openings.

EC Elevator ID:			Car A		Car B		Car C		Car D		Car E		Car F		Car Call Lockout		Hall Call Lockout		CODE BLUE		I.R./ Swing		Lobby/ Recall	
Building Elevator ID:																								
LDG #	Floor Label	Floor Height	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R
	Overhead																							
32																								
31																								
30																								
29																								
28																								
27																								
26																								
25																								
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10																								
9																								
8																								
7																								
6																								
5																								
4																								
3																								
2																								
1																								
	Pit																							
Capacity: ☐ lbs ☐ kg															**Number of Hoistways:**									
Speed: ☐ fpm ☐ m/s															**Hoistway NEMA Rating:**									
Total Travel ☐ ft ☐ m															Final Limit Switches by EC**									
Traveler* ☐ ft ☐ m															☐ Kellems Grips (total qty):									

Landa

Each Pixel control system includes Landa, a non-contact encoded car positioning system that features an encoded stainless steel tape and requires no magnets or terminal slow down switches to be installed.

*Specify travel cable length if ordering **Pixel custom travel cable (optional)**. Specify length needed per car.

**Mechanical (LS1) final limit switches come with standard 15lbs rail brackets and hardware.

ELEVATOR CONTROLS

Control Features

Pixel

AC Controller Data Forms

Job Name: | EC Job Number:

Enclosure & Accessories:

☐ NEMA 1 (standard) ☐ NEMA 12 ☐ NEMA 4 ☐ 4X
☐ Air conditioned enclosure
☐ Forced air ventilation (NEMA 1 only)
☐ Enclosure interior lighting
☐ GFCI Outlet in Controller Enclosure

Type of Operation:

☐ Simplex:
- ☐ Selective Collective ☐ Single Auto Push Button
- ☐ Down Collective ☐ Single Button Collective

☐ Group *Number of Cars:*

Communication Cable Lengths:

Allow for 3ft extra at each end for controller hookup

Car 1 to 2: ____ ft *Car 2 to 3:* ____ ft
Car 3 to 4: ____ ft *Car 4 to 5:* ____ ft
Car 5 to 6: ____ ft *Other:* ____

☐ Cross Registration Panel
Existing Controller Prints Required

☐ Swing Car Operation: *Car(s):*
- ☐ Key switch in car ☐ Key switch in hall
- ☐ Automatically switch when IR call is registered

Fire Service Operation:

Fire Service: ☐ Yes (standard) ☐ No
Phase I Keyswitch: ☐ 3 position ☐ 2 position
Phase II Keyswitch: ☐ 3 position ☐ 2 position
Main Recall Floor Landing #:
Doors will open at: ☐ Front ☐ Rear
Alt. Recall Landing #:
Doors will open at: ☐ Front ☐ Rear
☐ Additional Fire Recall Switch:
Location Landing #:

Inspection/Hoistway Access:

☐ In-Car Inspection Operation
Requires Enable, Up, & Down Buttons in-car

☐ Hoistway Access Operation
- ☐ Top access switch (top landing):
  Location: ☐ Front ☐ Rear
- ☐ Bottom access switch (bottom landing):
  Location: ☐ Front ☐ Rear

Only Top/Bottom Access Available

Up-Down Access Switches in: ☐ Hall Station ☐ Door Jamb
Other ☐
- ☐ 2-position Access Enable Switch
- ☐ 2-position In-Car Inspection Switch
- ☐ 3-position Inspection and HW Access switch

Note - Non-NEMA1 Car Top Inspection Stations supplied by customer

Additional Hoistway Accessories

☐ Retractable Ladder
☐ Hoistway Illumination

☐ Independent Service Switch: ☐ Car (std.) ☐ Hall
☐ Attendant Operation ☐ Annunciator panel in car
☐ Sabbath Operation
☐ Car to Lobby Switch: ☐ Car ☐ Hall ☐ Other
- ☐ Cancel car calls immediately ☐ Answer new car calls
- Park with doors: ☐ Open ☐ Closed

Return Landing #:

☐ Parking: ☐ Single Car ☐ All Cars *Return Landing #:*
- Park with doors: ☐ Open ☐ Closed

☐ Pit Flood Operation
Return Landing #: *Top Limit Landing #:*
☐ Fan & Light Timer Operation (Elevator Cab)

☐ Earthquake Operation:
- ☐ Car Runs at Reduced Speed During Earthquake*
  *Requires Hoistway Scan Switch & Indicators for ASME A17.1 2016+
- ☐ Seismic switch ☐ Counterweight derailment device

☐ Emergency Power Generator
- *E.P. contact during normal op.* ☐ Open ☐ Closed
- ☐ Power pre-transfer contact
- ☐ Sequential lowering (standard)
- ☐ Simultaneous Lowering
  Number of cars to run simultaneously:
- ☐ Manual select switch:
  # of Positions: *Labels:*

☐ Hospital Service (Code Blue): (indicate landings served on page 2)
# of cars allowed to run on hospital service:
Hospital Service Phase 2 Operation initiated by:
- ☐ Hospital phase 2 switch ☐ Independent service switch
- ☐ Other (explain):

☐ EMT/Emergency Medical Technician Service (Mass Only):
Return Landing #:

☐ Patient Security (Code Pink)
Patient Security Landing #'s:
5 Landings Maximum

☐ Load Weighing: ☐ By EC Mfg:
- ☐ Rope Tension: *Rope Size* *Rope Qty.*
- ☐ Isolated platform: *Car Weight:*
- ☐ Crosshead Deflection
- ☐ Dry contact load weigher signals (not for pre-torque):
  ☐ Hall call bypass ☐ Anti-nuisance ☐ Overload

Security:

☐ Call lockout: (indicate landings served on page 2)
- ☐ Car: ☐ Card Reader ☐ Key ☐ Other:
- ☐ Hall: ☐ Card Reader ☐ Key ☐ Other:

☐ Car call security via car call button code entry
☐ Car Call lockout override switch: ☐ Car (std) ☐ Hall
☐ Hall Call lockout override switch: ☐ Car ☐ Hall (std)
☐ Bypass Security When On:
- ☐ Independent Service ☐ Attendant Service

Indicators

AC Controller Data Forms

Job Name: | EC Job Number:

The Pixel control system requires all fixtures to be 24VDC, 3-6 watts maximum.

Car Call Registration:

Pixel Standard - CAN communication to COP

# of car stations per car:

☐ Stop Switch in Aux COP

Hall Call Registration:

Pixel Standard - CAN communication to HALL

☐ Hall Calls through CAN Communication

☐ Hall Calls through discrete I/O

Number of hall call risers: **Front:** *Rear:*

If more than 2 hall call risers, please explain on page 7

Car PI:

☐ C.E. Micro Comm 3-wire

☐ ECC DL-20/EX-51

☐ MAD - CAN

☐ *4.3" Giotto* ☐ *7" Giotto*

☐ *7" Matisse* ☐ *10" Matisse*

☐ *2.8" Rafaello* ☐ *4.3" Rafaello*

☐ Other:

☐ E-Motive 3-wire

☐ E-Motive - CAN

☐ VEGA - CAN

☐ HM - CAN

☐ ELEVAKE

☐ Binary

☐ Line Per Floor

Hall PI:

☐ All Floors ☐ Lobby Only

☐ C.E. Micro Comm 3-wire

☐ ECC DL-20/EX-51

☐ MAD - CAN

☐ *4.3" Giotto* ☐ *7" Giotto*

☐ *2.8" Rafaello* ☐ *4.3" Rafaello*

☐ Other:

☐ E-Motive 3-wire

☐ E-Motive - CAN

☐ VEGA - CAN

☐ HM - CAN

☐ ELEVAKE

☐ Binary

☐ Line Per Floor

Car Lanterns & Audible Indicators:

☐ Car lanterns: ☐ Chime ☐ Gong

☐ EC 3-wire C.E. Micro Comm ☐ EC 3-wire Emotive

☐ Discrete via Pixel COP (24VDC,6W max.)

☐ Passing floor enable button ("S" button)

☐ Voice annunciation device

CE Micro Comm, Emotive 3-wire or CAN driven only

Hall Lanterns:

☐ Hall lanterns: ☐ Chime ☐ Gong

☐ EC 3-wire C.E. Micro Comm ☐ EC 3-wire Emotive

☐ Discrete via Pixel Hall System (24VDC,6W max.)

CAN Communication via P-HALL boards (1 per floor)

Location(s): ☐ All Floors ☐ Lobby Only

☐ Other:

Miscellaneous Fixtures (24VDC, 3W max.):

☐	Indicator description:
☐	Emergency power light (Hall)
☐	Emergency power panel lights
☐	Fire service light (COP & Hall)
☐	Heavy load light (Hall)
☐	Hospital service light (COP)
☐	Hospital service buzzer (COP)
☐	In-use Lights (Freight Only)
☐	Overload light / buzzer (COP)
☐	Duplicate Emergency Stop Bell at Lobby
☐	Lobby control panel (provide fixture prints/details)
☐	Fire control panel (provide fixture prints/details)
☐	
☐	
☐	

CAN Serial Hall Call/Lantern RJ45 Connection Options

NOTE: The standard cable package will be provided if no alternate selection is made.

Standard Cable Package

- Controller-to-first node: Length: 25 ft
- Floor-to-floor: One per floor, Length 14 ft, **or**
- Floor-to-floor: Two per floor, Length 7 ft (if hall lanterns)
- Splitter-to node: One per node, Length 5 ft
- Splitter-to-node (one per Access Switch): Length 7 ft
- Fire Switch Node to Hall Call Node (one): Length 6 inches
- Splitters (enough for standard node network)

☐ Alternate lengths needed (indicate quantity and lengths)

Controller-to-first node: Length:

Floor-to-floor: Qty: Lengths:

Splitter-to-hall node: Qty: Lengths:

Splitter-to-access nodes: Qty: Lengths:

Fire Switch Node to Hall Call Node: Length:

Delivery of Fixture Node Boards (Pre-wiring)

☐ Ship Fixture Node Boards with Controller

☐ Ship Fixture Node Boards in advance to:

Company:

Contact Name:

Phone #: *Ref #:*

Email:

Address:

City: *State:* *Zip:*

Top of Car to COP Wiring Harness

☐ 15' Harness (standard) ☐ 25' Harness

Additional Comments:

Door Information

AC Controller Data Forms

Job Name: | EC Job Number:

☐ New door operator:
Supplier:
Contact:
P.O.#: Phone:
☐ Existing door operator

Automatic Passenger Door Operators:

Place an "X" in the appropriate box(es) to indicate door operator (F = Front and R = Rear).

F	R			
☐	☐	GAL MOVFR:	☐ 230V	☐ 115V
☐	☐	GAL MOVFE:	☐ 230V	☐ 115V
☐	☐	GAL MOVFE CAN bus:	☐ 230V	☐ 115V
☐	☐	*GAL MOD (shunt wound):*	☐ 230V	☐ 115V
☐	☐	*GAL MODPM:*	☐ 230V	☐ 115V
☐	☐	*GAL MOM / MOH*		
☐	☐	MAC PM-SSC		
☐	☐	ECI: ☐ *895* ☐ *1000* ☐ *2000* ☐ *VFE2500*		
☐	☐	Atlantic Tech ☐ *9001* ☐ *9003*		
☐	☐	Torin/Standard FX1C		
☐	☐	Dover/TKE: ☐ *HD73* ☐ *HD85* ☐ *DC68*		
☐	☐	Dover/TKE: ☐ LD16 ☐ HDLM ☐ PA LULA		
☐	☐	Fermator VVVF5		
☐	☐	IPC ☐ Encore ☐ D2000 ☐ D3000		
☐	☐	KONE AMD* / ReNova* / MidiSupra*		
☐	☐	MCE Smartraq		
☐	☐	Nova BG101		
☐	☐	Otis AT400 ☐ *Customer-supplied Pwr Supply*		
☐	☐	*Otis 6970A (Reactance)*		
☐	☐	R&R ☐ DC244 ☐ DC2000		
☐	☐	*Schindler QKS:* ☐ *14* ☐ *15*		
☐	☐	Other:*		

*Please send/provide door operator wiring diagrams.

Door Features:

☐ Infrared detector/dual-beam photo eye unit:
- ☐ By EC (Weco-917P-2D) ☐ Customer Provided
- ☐ With GAL door operator (MOVFR, MOVFE)
- ☐ Cut-out switch located in COP
- ☐ Anti-nuisance

☐ Mechanical safety edge
☐ Front heavy doors at landings:
☐ Rear heavy doors at landings:
☐ Door hold: ☐ Switch ☐ Button: (time) sec.
☐ Nudging: ☐ Reduced torque with buzzer ☐ Buzzer only

Car Gate and Hoistway Doors:

☐ Automatic car gate
☐ Manual car gate
☐ Gate release solenoid: *Voltage:* V *Phase*
Current: A Description:

☐ Electric Door Restrictor
Brand: Model:

Hoistway Door Type:

☐ Automatic passenger (horizontal sliding)
☐ Automatic freight (vertical sliding)
☐ Manual*
*Interlocks:
- ☐ Door closed contacts (separate from locked contacts)
- ☐ Door locked contacts

Brand: Model:

Door locking cam:
☐ Fixed
☐ Mechanical (driven by automatic car gate)
☐ Retiring: *Voltage:* V ☐ DC ☐ AC
Current: A *Phase:*

Notes:

Power Freight Doors:

(Non-Courion/Peelle Freight Door Operator wiring diagrams must be sent to EC)

☐ Courion: ☐ *MP* ☐ *iLearn*
☐ Peelle: ☐ *PLC* ☐ *Wireless*
☐ EMS (provide prints)
☐ Other (provide prints):

Freight Door Operation:

Door Opening: ☐ Automatic ☐ Momentary pressure ☐ Constant pressure
Door Closing: ☐ Automatic ☐ Momentary pressure ☐ Constant pressure
Fire Ph. 1 Closing: ☐ Automatic ☐ Momentary pressure ☐ Constant pressure

For Courion iLearn Only:
iLearn Module to be Shipped to EC By Customer?
☐ Yes ☐ No

Notes:

Machine Room Data
Traction AC

AC Controller Data Forms

Job Name | EC Job Number:

Line Voltage: _____ (measured)
- ☐ AC 3 phase (symmetrical with respect to ground)
- ☐ AC single phase
- ☐ 60 Hz ☐ 50 Hz
- ☐ Brown Out Circuit
- ☐ Surge Suppressor

Machine: ☐ Existing ☐ New ☐ New from EC

Brand: _____

Location: ☐ Overhead ☐ Basement ☐ MRL

Roping: ☐ 1:1 ☐ 2:1 ☐ Underslung

☐ Ropes are 8mm (0.315") diameter or smaller

Main Brake:

☐ DC ☐ AC single phase ☐ AC 3-phase

Number of brake coils: ☐ 1 ☐ 2 ☐ Other _____

Per coil voltage and resistance measurements:

Voltage Picking: _____ **Voltage Holding:** _____

Resistance: _____ ohms ☐ Measured ☐ Data

If measured: ☐ Hot ☐ Cold

Contact on Brake: ☐ N/O (closed = brake is picked)
☐ N/C (open = brake is picked)

Emergency Brake (required on A17.1-2000 and later):

☐ Rope brake: Model: _____
- ☐ Hollister Whitney ☐ *Standard* ☐ *Linear*
- ☐ Draka RB500

☐ Independent brake on machine # of coils: _____

Voltage picking: _____ *Voltage Holding:* _____

Resistance: _____ Ohms

☐ Not Required

Additional Requirements:

☐ Isolation Xfrmr ☐ By Customer *KVA (if not by EC):* _____
- ☐ Opt. fuse kit (Iso Xfrmr secondary overcurrent protection)

☐ Line reactor
☐ Harmonic Filter
☐ Motor choke or output filter
☐ AC Regenerative Drive
☐ Machine blower: *FLA:* _____
Voltage: _____ ☐ AC ☐ DC *Phase:* _____
☐ Governor with remote set & reset solenoids:
Voltage: _____ ☐ AC ☐ DC *FLA:* _____
☐ Jawless governor (rope slack switch)
☐ Reduced stroke buffers: *Buffer rating:* _____ fpm
☐ Counterweight safety

☐ Battery Power Rescue/Automatic Traction Rescue
- ☐ By Customer Nema rating: _____

☐ Emergency Brake Release
w/ Video Monitor: *Yes* ☐ *No* ☐

Hoist Motor: ☐ Existing ☐ New ☐ New from EC

Motor brand: ☐ Reuland ☐ Magil (Reliance) ☐ Imperial ☐ TorinDrive ☐ Other: _____

Motor mounting: ☐ Foot ☐ Flange

Shaft style: ☐ Straight ☐ Tapered

Motor Data

Type: ☐ Induction (Geared) ☐ PM (Gearless)

HP: _____ **Voltage:** _____

Frequency: _____ Hz. **FLA:** _____ NLA: _____

Peak Voltage: _____ Peak Amps: _____

Full Load RPM: _____ Synchronous RPM: _____

Number of poles: _____ Model #: _____

VVVF Drive

☐ No Preference (first available - standard)
☐ Magnetek
☐ KEB

Velocity Encoder:

☐ Existing ☐ New ☐ New by EC

(If New by EC) Live motor shaft diameter: _____

Brand: _____ Model: _____

Encoder Pulses: _____ PPR

Encoder Cable provided by:

☐ Customer ☐ By EC Length: _____ ft. (if by EC)

NEMA 1 Enclosure Sizes (includes resistor box):

Select a Nema 1 enclosure if a specific size is preferred.

EC Manufacturing will determine if the required components will fit within the enclosure selected, and will advise if not possible. If no selection is made, EC will select the smallest enclosure size possible.

- ☐ 53"H x 36"W x 12"D (wall mount & lift off door)
- ☐ 63"H x 36"W x 14"D (wall mount & lift off door)
- ☐ 77"H x 36"W x 13"D (floor mount & single door)
- ☐ 77"H x 36"W x 17"D (floor mount & single door)
- ☐ 77"H x 47"W x 17"D (floor mount & double door)

☐ Hinged door option
☐ Legs for floor-mounting a wall-mount enclosure
☐ *8.84" (single)* ☐ *17.68" (double)*
☐ Machine room space limitations _____ *H* _____ *W* _____ *D*

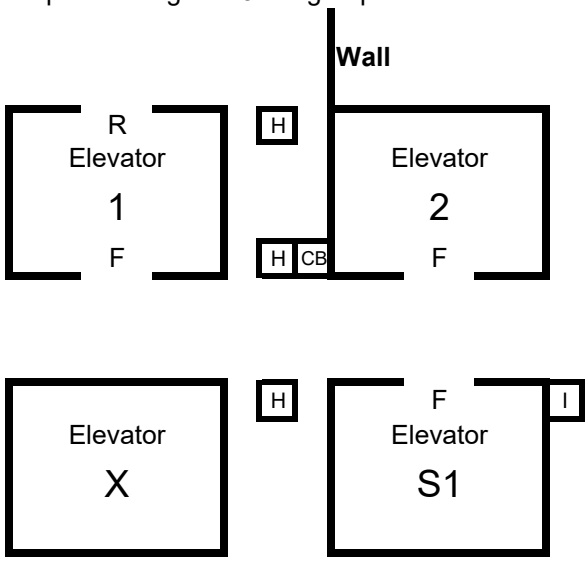
Explain: _____

Additional Information: _____

Job Name: | EC Job Number:

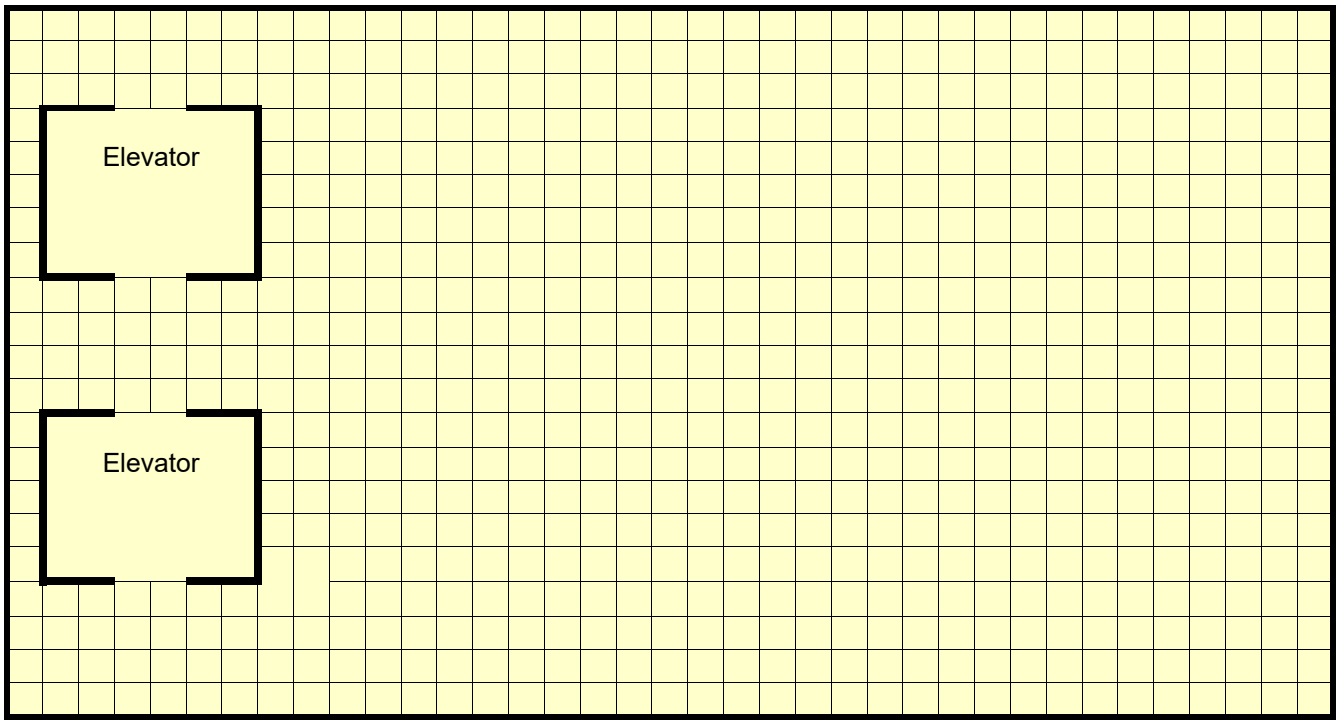
Using the grid layout below, identify each elevator by a number/name as appropriate for the building configuration. Place a 'X" through unused hoistways. Indicate location of the hall call pushbuttons, door openings and walls, as shown in the example below.

Example drawing of a 3 car group.



Door openings:
F = Front opening
R = Rear opening
Notes:

Hall Call Risers:
H Hall call riser (group)
I Inconspicuous riser (swing car riser)
CB Code Blue (hospital service) riser
Notes:



Special instructions:

Job Name: | EC Job Number:

Monitoring Interface:

- ☐ Machine Room Monitoring
  - ☐ *Web-Interact (std)* ☐ *Liftnet (IDS)*
  - ☐ *Schindler CB3 (via Ethernet)*
  - Interfaces to 3rd Party Monitoring Systems
  - ☐ *Kings III*
  - ☐ *Schindler Lobby Vision (dry contact interface)*
  - ☐ *Mitsubishi MelEye (dry contact interface)*
  - ☐ *Other (describe in Special Instructions):*
- ☐ Rio Cyber Security Interface

Communication Cable Lengths:

Allow for 3ft extra at each end for controller hookup

PC to Car 1: _____ ft *PC to Car 2* _____ ft
PC to Car 3: _____ ft *PC to Car 4* _____ ft
PC to Car 5: _____ ft *PC to Car 6* _____ ft
Other: _____

Monitoring Options

- ☐ Remote Monitoring
- ☐ Desktop PC Quantity: _____
- ☐ Laptop PC Quantity: _____
- ☐ LCD flat screen (standard)
- ☐ Other: _____

Remote workstation location(s):

- ☐ Lobby ☐ Security room
- ☐ Fire control room ☐ Concierge desk
- ☐ Other: _____

Communication media:

- ☐ Ethernet
- ☐ Line driver: ☐ By EC ☐ Others

MR to Remote Station Distance: _____

*If distance is longer than 300ft. repeaters are required.

- ☐ Printers Quantity: _____

Special Instructions:

Using the grid layout below to sketch the remote monitoring system required.