



A VANTAGE Company

Phone: (916) 428-1708, Fax: (916) 428-1728
Email: sales@elevatorcontrols.com



DC Controller Data Forms

Project Data

Pixel DC Data Forms.xls	Revised 06/09/2021	Page 1 of 8
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. 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: _____

Code Compliance United States:

A17.1-20xx -16 -13 -10 -07 -04
 Other (specify) - _____

Code Compliance International:

Canada B44- -16 -13 -10 -07 -04
 Other (specify) - _____

Notice Required:

24 Hours 48 Hours Other: _____
Shipping Method: Ground Air
 Lift gate truck required

Additional state or local code compliance:

Chicago Nebraska
 GSA/Federal New York City
 Michigan Washington (Seattle)
 Other: _____

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: _____

Additional Compliance Requirements? Explain

Delivery Schedule	
Controller	Delivery Date (on site)
Car	
Car	
Car	
Car	
Group	
Cross Registration Panel	

Data Forms Completed By:

Name/Title: _____
Phone: _____ **Fax:** _____
Mobile: _____
Email: _____
Company: _____
Signature: _____



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Hoistway Data

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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 C.L.		Hall C.L.		CODE BLUE		I.R.					
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	F	R
	Overhead																									
32																										
31																										
30																										
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9																										
8																										
7																										
6																										
5																										
4																										
3																										
2																										
1																										
	Pit																									
Capacity: <input type="checkbox"/> lbs <input type="checkbox"/> kg															Lobby landing #: <input type="text"/>		Floor Label: <input type="text"/>									
Speed: <input type="checkbox"/> fpm <input type="checkbox"/> m/s															Car C.L. = Car Call Lockout Floor Hall C.L. = Hall Call Lockout Floor I.R. = Inconspicuous Riser (Swing Op.)											
Total Travel <input type="checkbox"/> ft <input type="checkbox"/> m															<input type="checkbox"/> Kellems Grips (total qty): <input type="text"/>											
Traveler* <input type="checkbox"/> ft <input type="checkbox"/> m																										

Number of Hoistways: 1 2 _____ Standard hoistway equipment is NEMA 1 Other:

Final limit switches by EC (needed for traction elevators only, 2 total, cam by others)**

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.

Control Features

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Job Name:	EC Job Number:	

Machine room space limitations H W D
 Explain: _____

Refer to page 6 of data forms for NEMA 1 enclosure sizes

Controller NEMA Rating Requirement:

1 (standard) 12 4 4X
 Air conditioned enclosure
 Forced air ventilation
 Enclosure interior lighting

Type of Operation:

Simplex:
 Selective Collective Single Auto Push Button
 Down Collective Single Button Collective
 Group Number of Cars: _____

Central connection point for communication is usually in the controller for Car #1. Specify lengths for communication cables (Car 1 to Car 2, Car 1 to Car 3, etc.). Allow for an additional 5 feet at each end to permit hookup inside the controller enclosure. _____

Number of hall call risers: _____

Cross Registration Panel

Swing Car Operation: Car(s): _____
 Key switch in car Key switch in hall
 Automatically switch when IR call is registered
 Dedicated riser for swing hall calls

Fire Service Operation:

Fire Service Phase I:
 3 position keyswitch 2 position keyswitch
 Fire Service Phase II (3 position keyswitch)
 Main Recall Landing #: _____ Floor Label: _____
 Doors will open at: Front Rear
 Alt. Recall Landing #: _____ Floor Label: _____
 Doors will open at: Front Rear

Additional Fire Recall Switch:
 Location Landing #: _____ Floor Label: _____

Inspection/Hoistway Access Operations:

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

In-Car Switch Type(s):

2-position Access Enable Switch
 2-position In-Car Inspection Switch
 3-position Inspection and HW Access switch

Operation on In-Car Inspection requires an Enable button and separate Up & Down buttons inside elevator cab.

Attendant Operation Annunciator panel in car
 Car to Lobby Switch: Car Hall Other _____

Cancel car calls immediately Answer new car calls
 Park with doors: Open Closed
 Return Landing #: _____ Floor Label: _____

Earthquake Operation:
 A17.1-16 compliance (HW scan switch, indicators, etc.)
 Seismic switch Counterweight derailment device
 Car operates on fire or hosp. service (reduced speed)

Emergency Power Generator
 E.P. contact during normal op. Open Closed
 Power pre-transfer contact
 Sequential lowering (standard)
 If not, number of cars to run simultaneously: _____
 Manual select switch: # of Pos: _____ Labels: _____

A17.1-2000+ requires indicator(s) if the elevators cannot be seen from the selection switch location.

Emergency Medical Technician Service (EMT):
 Return Landing #: _____ Floor Label: _____

Fan & Light Timer Operation (Elevator Cab)

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): _____

Independent Service Switch: Car (std.) Hall

Load Weighing: By EC Mfg: _____
 Rope Tension X-head Deflect Isolated platform
 Dry contact load weigher signals (not for pre-torque):
 Hall call bypass Anti-nuisance Overload

Pit Flood Operation Return landing: _____

Sabbath Operation

Security (check applicable requirements below)
 Call lockout: (indicate landings served on page 2)
 Car: Card Reader Key Other: _____
 Hall Card Reader Key Other: _____

Call lockout override switch: Car Hall
 Car call security (enter code using car call buttons)
 Bypass Security: (bypass on fire service is standard)
 Independent Service Attendant Service
 Other: _____

Additional features required: _____

Indicators

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

Car Call Registration Indicators:

Pixel Standard - CAN communication to COP
 Auxiliary COP(s)
 # of car stations per car: _____

Hall Call Registration Indicators:

Pixel Standard - CAN communication to HALL
 Hall Calls through CAN Communication
 Hall Calls through discrete I/O
 Number of hall call risers: _____
 If more than 2 hall call risers, please explain on page 7 (Hoistway Layout).

Passing Floor Chime:

EC 3-wire C.E. Micro Comm EC 3-wire E-Motive
 Pixel COP (24VDC, 6W max.)
 Passing floor enable button ("S" button)

Position Indicators:

EC 3-wire C.E. Micro Comm EC 3-wire E-Motive
 EC DL-20 E.C.C.
 PI CAN network interface
 MAD VEGA E-Motive HM
 ELEVAKE Other: _____

Car position indicator
 Hall position indicator
 Location(s): Main Fire All Floors
 Other: _____

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

Lanterns:

Car lanterns: Chime Gong
 EC 3-wire C.E. Micro Comm EC 3-wire Emotive
 Pixel COP (24VDC,6W max.)
 Hall lanterns: Chime Gong
 EC 3-wire C.E. Micro Comm EC 3-wire Emotive
 Pixel Hall System (24VDC,6W max.)
 CAN Communication via P-HALL boards (1 per floor)
 Location(s): All Floors Lobby Only
 Other: _____

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: _____

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

Indicator description:
<input type="checkbox"/> Emergency power light (Hall)
<input type="checkbox"/> Emergency power panel lights
<input type="checkbox"/> Fire service light (COP & Hall)
<input type="checkbox"/> Fire control panel (provide fixture prints/details)
<input type="checkbox"/> Heavy load light (Hall)
<input type="checkbox"/> Hospital service light (COP)
<input type="checkbox"/> Hospital service buzzer (COP)
<input type="checkbox"/> In-use Lights
<input type="checkbox"/> Lobby control panel (provide fixture prints/details)
<input type="checkbox"/> Overload light / buzzer (COP)

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: _____

Additional Comments:



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Door Information

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New door operator:
 Supplier: _____
 Contact: _____
 P.O.#: _____ Phone: _____

Existing door operator

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)
 Swing*
 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:

Door operator wiring diagrams have been sent to EC*
 Courion: MP iLearn Other: _____
 EMS (provide prints) Model: _____
 Peelle: PLC Wireless Other: _____
 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

Notes: _____

Automatic Passenger Door Operators:

Place an "X" in the appropriate box(es) to indicate door operator (F = Front and R = Rear). Operators shown in **italics>** require interface module mounted on cartop.

F	R		230V	115V
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOVFR:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOVFE:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOVFE CAN bus:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOD (shunt wound):	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	GAL MODPM:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOM/MOH	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	MAC PM-SSC		
<input type="checkbox"/>	<input type="checkbox"/>	ECI: <input type="checkbox"/> 895 <input type="checkbox"/> 1000 <input type="checkbox"/> 2000 <input type="checkbox"/> VFE2500		
<input type="checkbox"/>	<input type="checkbox"/>	Atlantic Tech <input type="checkbox"/> 9001 <input type="checkbox"/> 9003		
<input type="checkbox"/>	<input type="checkbox"/>	Dover/TKE: <input type="checkbox"/> HD73 <input type="checkbox"/> HD85 <input type="checkbox"/> DC68		
<input type="checkbox"/>	<input type="checkbox"/>	Dover/TKE: <input type="checkbox"/> HDLM <input type="checkbox"/> PA LULA		
<input type="checkbox"/>	<input type="checkbox"/>	Fermator VVVF5		
<input type="checkbox"/>	<input type="checkbox"/>	IPC Encore (closed loop) <input type="checkbox"/> D2000 <input type="checkbox"/> D3000		
<input type="checkbox"/>	<input type="checkbox"/>	KONE AMD		
<input type="checkbox"/>	<input type="checkbox"/>	MCE Smartrak		
<input type="checkbox"/>	<input type="checkbox"/>	Nova BG101		
<input type="checkbox"/>	<input type="checkbox"/>	Otis AT400 <input type="checkbox"/> Customer-supplied Pwr Supply		
<input type="checkbox"/>	<input type="checkbox"/>	Otis 6970A (Reactance)		
<input type="checkbox"/>	<input type="checkbox"/>	R&R DC244		
<input type="checkbox"/>	<input type="checkbox"/>	Schindler QKS: <input type="checkbox"/> 14 <input type="checkbox"/> 15		
<input type="checkbox"/>	<input type="checkbox"/>	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

Notes: _____



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DC Controller Data Forms

Machine Room Data - Traction DC

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Job Name: _____		EC Job Number: _____

Line Voltage: _____ (measured)

- AC 3 phase (symmetrical with respect to ground)
- AC single phase
- 60 Hz 50 Hz

Machine: Existing New

Brand: _____

Location: Overhead Basement MRL

Type: Geared: _____
 Gearless

Roping 1:1 2:1 Underslung

Ropes are 8mm (0.315") diameter or smaller

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: Hollister Whitney Draka RB500

Other Brand: _____ Model: _____

Independent brake on machine # of coils: _____

Voltage picking: _____ Voltage Holding: _____

Resistance: _____ Ohms

Other (explain): _____

Additional Requirements:

Isolation Transfmr By EC Nema Rating: _____

Opt. fuse kit (Iso Xfmr secondary overcurrent protection)

DC Choke By EC Nema Rating: _____

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

Additional Information: _____

Hoist Motor: Existing New

Brand: _____

HP: _____ Voltage: _____ FLA: _____

RPM: _____

Other name plate data: _____

Hoist Motor Shunt Field: _____

Shunt field voltages: _____

Forcing: _____ Running: _____ Standing: _____

Shunt field resistance: _____ ohms # of coils: _____

- Measured Data sheet
- Series Series/parallel
- Hot Cold

Loop Circuit Voltage: (measured at the motor brushes while running)

Up empty car: _____ VDC at speed: _____ fpm

Down empty car: _____ VDC at speed: _____ fpm

Loop Circuit Current: (measured while running)

Empty Car Up: _____ A at speed: _____ fpm

Empty Car Down: _____ A at speed: _____ fpm

Peak currents: Up: _____ A Down: _____ A

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.

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

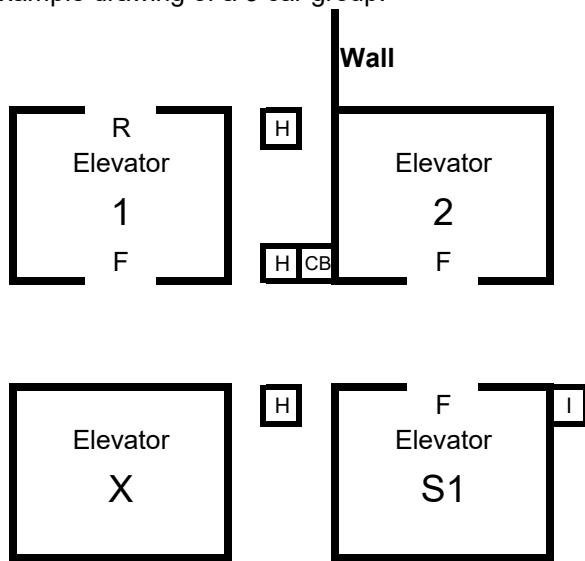
12" (single) 24" (double)

Hoistway Layout

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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.



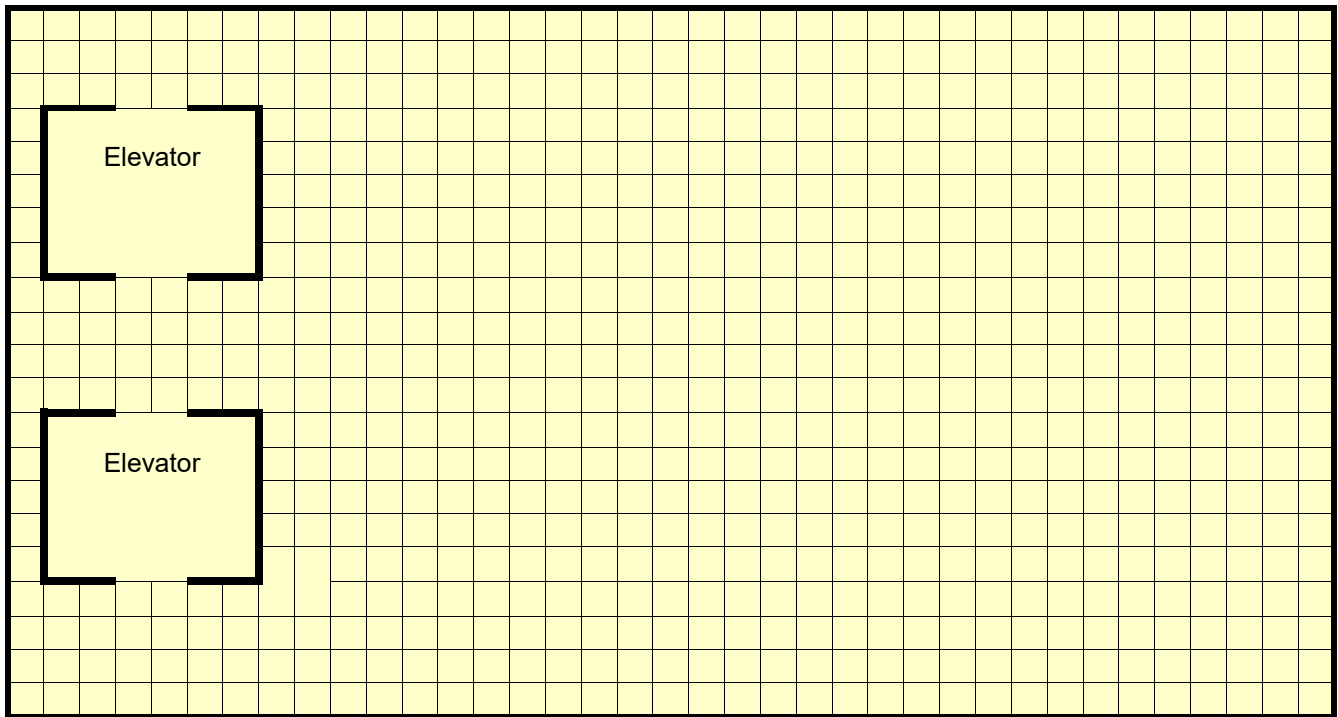
Door openings:
 F = Front opening
 R = Rear opening

Notes: _____

Hall Call Risers:

- H Hall call riser (group)
- I Inconspicuous riser (swing car riser)
- CB Code Blue (hospital service) riser

Notes: _____



Special instructions: _____



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DC Controller Data Forms

Monitoring Data

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Job Name:

EC Job Number:

Machine Room Monitor (20" LCD is standard)
 Other: _____

The central connection point for the Machine Room PC is located at the PC. Specify lengths for communication cables (Car 1 to PC, Car 2 to PC, Car 3 to PC, etc.). Allow for an additional 5 feet to permit hookup inside the controller enclosure. _____

Special Instructions: _____

Remote Monitoring Station(s):
 Interact Liftnet (IDS)
 Single Group Multi-group
 Desktop PC Quantity: _____
 Laptop PC Quantity: _____

Monitor Type:
 LCD flat screen (standard)
 Other: _____

Distance from controller to remote PC*: _____ ft.
 *If distance is longer than 400ft. repeaters are required.

Remote workstation location(s):
 Lobby Security room
 Fire control room Concierge desk
 Other: _____

Interfaces to 3rd Party Monitoring Systems

Kings III
 Schindler Lobby Vision (dry contact interface)
 Mitsubishi MeEye (dry contact interface)
 Other (describe): _____

Communication media:
 Ethernet
 Line driver: By EC Others

Printer(s) required Quantity: _____

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

