



Motion Control Engineering
 Voice: 916 463 9200
 Fax: 916 463 9201

Motion 4000 Traction Engineering Survey Form

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Doc #: 42-FR-0450 A2 (JER130)
 www.nidec-mce.com

LOGISTICS INFORMATION

MCE to complete shaded area:

MCE Job Number:	Date Received:
Job Name:	Job Engineer:

In order to better serve you and meet your schedule, this form must be completed and signed. Timely delivery and trouble-free installation begins with this data form. Accurate and complete information is essential. Non-response to a question will be defined as meaning that the item does not apply.

Job Type

- | | | |
|---|---|---|
| <input type="checkbox"/> Federal Government | <input type="checkbox"/> State Government | <input type="checkbox"/> Other Government |
| <input type="checkbox"/> School or University | <input type="checkbox"/> Courthouse | <input type="checkbox"/> Hospital |
| <input type="checkbox"/> Office Building | <input type="checkbox"/> Private | <input type="checkbox"/> Jail / Prison |
| <input type="checkbox"/> Other | | |

Site & Contact Information

Site Address
Owner Representative
Print Name:
Signature:
Title:
Business Phone:
Cell Phone:
eMail:
Address:

Consultant Information

Business Name:
Contact Name:
Business Phone:
Cell Phone:
eMail:
Address:

Form Completed By

Name:
Business Phone:
Cell Phone:
eMail:
Address:

Contractor Information

Business Name:
Contact Name:
Business Phone:
Cell Phone:
eMail:
Address:

Shipping Information

Ship To Address:	
Notice Required:	<input type="checkbox"/> 24 hrs <input type="checkbox"/> 48 hrs
Lift Gate Truck Required:	<input type="checkbox"/> Yes <input type="checkbox"/> No



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LOGISTICS & CODE DATA

Logistics Information (continued)

Delivery & Payment Schedule

Standard MCE terms of payment (net 30 days) apply to your order. If you require special terms of payment, please provide an Alternative Payment Schedule.

Per state tax laws, it is critical that MCE receive exemption or resale certificates prior to the material being shipped and billed. If the job is a tax exempt job, send the exemption certificate with this form. If you are a resale customer and have a resale certificate, please make sure that the MCE accounting department has a copy on file.

Customer Job Number:		
Customer PO Number:		
Job Name:		
Number of cars:		
Control	Delivery Date	Payment Date
Car " "		
Car " "		
Car " "		
Car " "		
Car " "		
Car " "		
Group " "		

Delivery & Payment Schedule

If different payment terms are required, please provide an alternative proposal. Please include specifics of building owner payments and provide a copy of your contract.

Alternative Proposal Provided: Yes No
Contract Attached: Yes No

Job Push-Outs and Cancellation

Jobs pushed out by the customer more than 90 days beyond the originally scheduled date may be subject to cancellation charges as follows:

- * Before engineering commences: 10% of total sales order
- * After engineering completed: 30% of total sales order
- * After construction completed: 75% of total sales order

Extra Documentation

If this job requires additional engineering drawing packages or additional manuals, please indicate below.

<input type="checkbox"/> Drawing Sets	# Required:
<input type="checkbox"/> Manuals	# Required:

Elevator Safety Code Compliance

Accurate information is essential. Both hardware and software are affected.

Job Location (City/State):	
Contract Date:	
Project Type:	<input type="checkbox"/> New Construction <input type="checkbox"/> Modernization
Elevator Duty:	<input type="checkbox"/> Passenger <input type="checkbox"/> Service <input type="checkbox"/> Freight
Measurements:	<input type="checkbox"/> U.S./Imperial <input type="checkbox"/> S.I./Metric
North American Compliance: <input type="checkbox"/> U.S. <input type="checkbox"/> Canada	
ASME A17.1/B44 Edition:	
<input type="checkbox"/> 2016 <input type="checkbox"/> 2013 <input type="checkbox"/> 2010 <input type="checkbox"/> 2007 <input type="checkbox"/> 2004 <input type="checkbox"/> 2000	
Addenda/Supplements:	
(None for A17.1-2010 and later) <input type="checkbox"/> 2008(a) <input type="checkbox"/> 2005(a) <input type="checkbox"/> 2002(a) <input type="checkbox"/> 2009(b) <input type="checkbox"/> 2005(S) <input type="checkbox"/> 2003(b)	
<input type="checkbox"/> ASME A17.1-1996/98	
<input type="checkbox"/> ASME A17.1- (Specify edition & addenda)	
International compliance:	
<input type="checkbox"/> Australia AS 1735	
<input type="checkbox"/> EN 81	
<input type="checkbox"/> Other (Specify):	
Additional jurisdictional code compliance:	
<input type="checkbox"/> California medical facility OSHPD Seismic Certification (additional charge for certified cabinet)	
<input type="checkbox"/> Chicago Chapter 18-30	
<input type="checkbox"/> Denver <input type="checkbox"/> Pressurized hoistway	
<input type="checkbox"/> GSA	
<input type="checkbox"/> Hawaii	
<input type="checkbox"/> Houston, TX <input type="checkbox"/> Existing Door Reopen Button, Fire Phase I	
<input type="checkbox"/> Maryland	
<input type="checkbox"/> Michigan <input type="checkbox"/> Permit/contract date prior to 6/21/2010?	
<input type="checkbox"/> Nebraska	
<input type="checkbox"/> New York City, NY <input type="checkbox"/> Appendix K <input type="checkbox"/> RS-18	
<input type="checkbox"/> Seattle, Washington	<input type="checkbox"/> Multiple Phase I Switches
<input type="checkbox"/> Washington State	# of 3-position: _____ # of 2-position: _____
<input type="checkbox"/> TSSA <input type="checkbox"/> Collapsible Car Top Guard Rail	
<input type="checkbox"/> Additional Compliance Requirements? Explain:	
Job Specification	
Does project have job specifications? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, number of pages: _____	
Have specifications been forwarded to MCE? <input type="checkbox"/> Yes <input type="checkbox"/> No	

Type of Operation

<input type="checkbox"/> Simplex
Parking Floor: _____ Floor Label: _____ If no parking floor, car stays at last call answered.
<input type="checkbox"/> Selective collective (intermediate floors have two call buttons in hall)
<input type="checkbox"/> SAPB Single Automatic Pushbutton (intermediate floors have one call button in hall)
<input type="checkbox"/> SBC Single Button Collective (intermediate floors have one call button in hall)
<input type="checkbox"/> Duplex Selective Collective (provide hoistway and machine room drawings)
Parking: Primary Floor: _____ Floor Label: _____ Secondary Floor: _____ Floor Label: _____ First free car will park at Primary floor. Second free car will park at Secondary floor. If no parking floors, cars stay at last call answered floor.
<input type="checkbox"/> Group Automatic (provide hoistway and machine room drawings)
Number of cars: _____ Number of Hall Call Risers: _____
Lobby Landing #: _____ Floor Label: _____
Parking Floors: Number of cars to park: _____ Floors to park at: _____ (If no parking floor, cars stay at last call answered) (Once parking floors are full, other cars stay at last call answered)
<input type="checkbox"/> Swing Car Operation Car(s): _____ <input type="checkbox"/> Activated by keyswitch: <input type="checkbox"/> In car <input type="checkbox"/> In hall <input type="checkbox"/> Auto swing
<input type="checkbox"/> Cross Registration Existing hall P/B schematics are required.

Fire Service Operation

<input type="checkbox"/> Fire Service Phase I
Main Landing #: _____ Floor Label: _____ Doors will open: <input type="checkbox"/> Front <input type="checkbox"/> Rear Phase 1 Switch is: <input type="checkbox"/> 2-position <input type="checkbox"/> 3-position Alternate Landing #: _____ Floor Label: _____ Doors will open: <input type="checkbox"/> Front <input type="checkbox"/> Rear NOTE: For flood hazard zones , the designated and alternate fire recall floors should be at or above the base flood elevation.
Additional 2-position switch: <input type="checkbox"/> Yes <input type="checkbox"/> No For Federal jobs, location of additional 2-position switch: Landing #: _____ Floor Label: _____
Hoistway sensors: <input type="checkbox"/> At or below lower level of recall <input type="checkbox"/> Above lower level of recall
<input type="checkbox"/> "Elevator Control Panel" (Chicago High Rise only)
<input type="checkbox"/> Fire Service Phase II
Type of switch: <input type="checkbox"/> 3-position <input type="checkbox"/> 2-position Call Cancel Button: <input type="checkbox"/> Yes <input type="checkbox"/> No
Additional Fire Operation Requirements for Nassau County NY, Detroit MI, or GSA/Federal Jurisdictions: <input type="checkbox"/> Shunt Trip Delay <input type="checkbox"/> Heat Detectors: (<input type="checkbox"/> MR <input type="checkbox"/> HW <input type="checkbox"/> Each floor)

Operating Features

Attendant Service <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Attendant Annunciator Panel in car (Visual hall calls)
Car-to-Lobby switch <input type="checkbox"/> Yes <input type="checkbox"/> No Location: <input type="checkbox"/> Car <input type="checkbox"/> Hall <input type="checkbox"/> Remote Panel Park with doors: <input type="checkbox"/> Open <input type="checkbox"/> Closed Return Landing#: _____ Floor Label: _____
Earthquake Service <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> ASME A17.1 code <input type="checkbox"/> California Group II <input type="checkbox"/> Traction machine <input type="checkbox"/> Winding drum machine
<input type="checkbox"/> Seismic switch <input type="checkbox"/> By MCE <input type="checkbox"/> By customer <input type="checkbox"/> Counterweight derailment device <input type="checkbox"/> By MCE <input type="checkbox"/> By customer <input type="checkbox"/> Car to operate on fire or hospital service
Emergency Medical Technician Service (EMT) <input type="checkbox"/> Yes <input type="checkbox"/> No Return landing #: _____ Floor label: _____
Emergency Power Generator <input type="checkbox"/> Yes <input type="checkbox"/> No Does generator power other cars? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes: <input type="checkbox"/> Sequential lowering? (requires emergency power overlay)
If not sequential: Number of cars to run at a time: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> : _____
Emer pwr contacts during normal pwr: <input type="checkbox"/> Open <input type="checkbox"/> Closed <input type="checkbox"/> Power pre-transfer contact – 10 sec minimum
<input type="checkbox"/> Manual Select Switch Number of positions: _____ Labels: _____ Is emergency/standby power selector switch located at the designated level in view of all elevator entrances? <input type="checkbox"/> Yes <input type="checkbox"/> No
Flood Operation <input type="checkbox"/> Yes <input type="checkbox"/> No Lowest landing that the car can go in an event of a flood: Landing: _____ Floor Label: _____ NOTE: The designated and alternate fire recall floors should be at or above this level.
Foldable/Collapsible Cartop Rail Required: <input type="checkbox"/> Yes <input type="checkbox"/> No
Hospital Service (Code Blue) <input type="checkbox"/> Yes <input type="checkbox"/> No Mark number of each car used for hospital service: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/>
Landing numbers served: _____ Number of hospital risers: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> If more than one, list cars assigned to each: #1: _____ #2: _____ #3: _____ #4: _____
Hospital Phase 2 Activation: <input type="checkbox"/> Hospital Phase 2 switch <input type="checkbox"/> Hospital service indicators Standard operation: Phase 1 – light flashes; Phase 2 – lights continuous
Independent Service <input type="checkbox"/> Yes <input type="checkbox"/> No Key switch location: <input type="checkbox"/> Car (standard) <input type="checkbox"/> Hall <input type="checkbox"/> Pre-test switch in Controller

Operating Features (continued)

Inspection/Access Requirements	
Car Top Inspection Station by MCE (NEMA 1 only) <input type="checkbox"/> Yes <input type="checkbox"/> No	
Extended Shaft Car Top Inspection <input type="checkbox"/> Yes <input type="checkbox"/> No (Bypasses 1 st set of directional & final limits to move the car further up the hoistway during car top inspection; 2 nd set of directional & final limits required, along with a separate multi-pole switch on car top complying with A17.1, 2.26.4.3; both sets of directional limits must be physical switches.)	
Hoistway Access Operation <input type="checkbox"/> Yes <input type="checkbox"/> No	
Top access switch:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Switch location:	<input type="checkbox"/> Front <input type="checkbox"/> Rear
Bottom access switch:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Switch location:	<input type="checkbox"/> Front <input type="checkbox"/> Rear
Select In-car Access (enable) switch type below.	
In-Car Inspection Operation <input type="checkbox"/> Yes <input type="checkbox"/> No	
Using separate up/down buttons	<input type="checkbox"/> Yes <input type="checkbox"/> No
Select In-car Inspection (on/off) switch type below.	
In-Car Inspection and/or Access Switch type (Only for ASME A17.1-2000/CSA B44-00 or later)	
<input type="checkbox"/> 2-Position Inspection (on/off) switch	
<input type="checkbox"/> 2-Position Access (enable) switch	
<input type="checkbox"/> 3-Position Inspection (on/off) and Access (enable) switch	

Load Weighing Yes No

EMCO Load Weigher	
<input type="checkbox"/> EMCO Rope Tension Load Weigher, Car: _____	
Number of ropes: <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8	
Roping: <input type="checkbox"/> 1:1 <input type="checkbox"/> 2:1	
Rope diameter: <input type="checkbox"/> 10mm <input type="checkbox"/> 1/2 in <input type="checkbox"/> 9/16in <input type="checkbox"/> 5/8 in	
If additional cars use same roping, and more load weighers are needed, indicate quantity here: _____	
If car roping varies, provide information for each car below.	
<input type="checkbox"/> EMCO Rope Tension Load Weigher, Car: _____	
Number of ropes: <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8	
Roping: <input type="checkbox"/> 1:1 <input type="checkbox"/> 2:1	
Rope diameter: <input type="checkbox"/> 10mm <input type="checkbox"/> 1/2 in <input type="checkbox"/> 9/16in <input type="checkbox"/> 5/8 in	
<input type="checkbox"/> EMCO Rope Tension Load Weigher, Car: _____	
Number of ropes: <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8	
Roping: <input type="checkbox"/> 1:1 <input type="checkbox"/> 2:1	
Rope diameter: <input type="checkbox"/> 10mm <input type="checkbox"/> 1/2 in <input type="checkbox"/> 9/16in <input type="checkbox"/> 5/8 in	
<input type="checkbox"/> K-Tech strain gauge (from MCE)	
<input type="checkbox"/> K-Tech strain gauge (from other) Model: _____	
<input type="checkbox"/> Other weigher Brand: _____ Model: _____	
<input type="checkbox"/> Discrete weigher (dry contact interface)	
<input type="checkbox"/> Anti-nuisance	<input type="checkbox"/> Lobby dispatch
<input type="checkbox"/> Hall call bypass	<input type="checkbox"/> Overload
<input type="checkbox"/> Hoist	

Monitoring Yes No

<input type="checkbox"/> mView complete in machine room
<input type="checkbox"/> mView interface only to allow future connection
<input type="checkbox"/> iMonitor / iReport, machine room or remote
<input type="checkbox"/> iMonitor / iReport interface only allow for future connection
<input type="checkbox"/> IDS Liftnet Interface
Number of monitoring stations: _____
Distance from group to monitoring station: _____ ft
Is distance greater than 300ft? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sabbath operation <input type="checkbox"/> Yes <input type="checkbox"/> No
Security
Car Call Security
<input type="checkbox"/> Card reader lockouts (dry contacts)
<input type="checkbox"/> Car call card reader override switch
Switch Location: _____
<input type="checkbox"/> Keyed floor lockout switches
Switch location: <input type="checkbox"/> Car <input type="checkbox"/> Hall:
Number of switches: _____
<input type="checkbox"/> Floor Lockouts via PC (iMonitor)
<input type="checkbox"/> Basic security (enter security code using car call buttons)
Enable/disable via: <input type="checkbox"/> Key-switch on/off Location: _____
<input type="checkbox"/> 7-Day Timer (hardware)
Hall Call Security
<input type="checkbox"/> Card reader lockouts (dry contacts)
<input type="checkbox"/> Hall call card reader override switch
<input type="checkbox"/> Single switch overrides all car and hall card readers.
Location: _____
<input type="checkbox"/> Keyed floor lockout switches)
<input type="checkbox"/> Floor Lockouts via PC (iMonitor)
<input type="checkbox"/> Bypass Security: (Fire service bypass is standard)
<input type="checkbox"/> Independent Service <input type="checkbox"/> Attendant Service
<input type="checkbox"/> Other Specify: _____
Sound Reduction (additional cost) <input type="checkbox"/> Yes <input type="checkbox"/> No (for contactors & dynamic braking resistors)
Special Security Features:
<input type="checkbox"/> Jail Security *
<input type="checkbox"/> Deputy/Marshal Service*
<input type="checkbox"/> Remote Car Station Control
<input type="checkbox"/> Evacuation Service *
<input type="checkbox"/> Child / Infant Abduction / Bracelet Operation
Number of landings with detection device: _____
Which Landings:
Landing #: _____ Floor label: _____
Allow car to run if not at affected landing: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Other * (_____)
* additional details must be provided
Timed Fan Light Output: <input type="checkbox"/> Yes <input type="checkbox"/> No
Used to turn cab fan/lights off after a user-adjustable length of time if the car is at a floor on automatic operation with the doors closed and no demand.



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MOTOR, MACHINE & BRAKE

General Information

Voltage
Line voltage available (disconnect): _____
Line voltage measured: _____
<input type="checkbox"/> AC 3 phase (symmetrical with respect to ground) <input type="checkbox"/> AC 3 phase (grounded leg delta configuration) <input type="checkbox"/> AC 2 phase <input type="checkbox"/> AC single phase <input type="checkbox"/> DC <input type="checkbox"/> 60 Hz <input type="checkbox"/> 50 Hz
Add Isolation Transformer: <input type="checkbox"/> Yes <input type="checkbox"/> No
Add Voltage Surge Suppressor: <input type="checkbox"/> Yes <input type="checkbox"/> No
Add Brown Out Circuit: <input type="checkbox"/> Yes <input type="checkbox"/> No
Add Traction Auxiliary Power Supply(Backup power for controller, only up to 40hp) <input type="checkbox"/> Yes <input type="checkbox"/> No
The maximum controller SCCR (Short Circuit Current Rating) is 10kA. If available fault current exceeds 10kA, an isolation transformer will be required. Please notify MCE.
<input type="checkbox"/> Machine blower Voltage: _____ Phase: _____ FLA: _____
<input type="checkbox"/> Reduced stroke buffers Buffer rating: _____ fpm Buffer stroke: _____ inches
<input type="checkbox"/> Counterweight safety
Regenerative Drive: <input type="checkbox"/> Yes <input type="checkbox"/> No (returns overhauling power to main line)
<input type="checkbox"/> Suspension-Means Monitoring (req'd for A17.1-2010 and later) <input type="checkbox"/> Steel wire ropes ≥ 8mm (Standard) <input type="checkbox"/> Steel wire ropes < 8mm * <input type="checkbox"/> Suspension means other than steel wire ropes * * For non-standard suspension means, the customer must provide the Broken Suspension Member (2.20.8.2) or Suspension Member Residual Strength (2.20.8.3) monitoring means, including a normally closed contact.

Machine and Brake

Machine <input type="checkbox"/> Existing <input type="checkbox"/> New (by others) <input type="checkbox"/> New (by MCE – complete additional form) <input type="checkbox"/> MRL (machine roomless) Brand: _____
<input type="checkbox"/> Geared <input type="checkbox"/> Ring & Worm <input type="checkbox"/> Helical <input type="checkbox"/> External <input type="checkbox"/> Tandem <input type="checkbox"/> Gearless <input type="checkbox"/> AC PM <input type="checkbox"/> AC Induction Encoder model: _____
Roping: <input type="checkbox"/> 1:1 <input type="checkbox"/> 2:1
Brake <input type="checkbox"/> Existing <input type="checkbox"/> New Brand: _____
<input type="checkbox"/> DC Brake (* Required Information) Voltage: *Pick: _____ *Hold: _____ *Coil resistance: _____ <input type="checkbox"/> Measured <input type="checkbox"/> Data Sheet <input type="checkbox"/> Contact on brake Type: <input type="checkbox"/> N/O <input type="checkbox"/> N/C
<input type="checkbox"/> AC Brake (* Required Information) *Current/Fuse Size: _____ Voltage: _____ Phase: <input type="checkbox"/> Single <input type="checkbox"/> 3-phase
FOR MRL APPLICATIONS ONLY:
<input type="checkbox"/> Battery Backup Passenger Rescue w/Video

Governor

<input type="checkbox"/> Jawless Governor (tension sheave switch required)
<input type="checkbox"/> OSHPD (tail sheave dislodged switch required)
<input type="checkbox"/> Remote Governor Set/Reset Coil Voltage: <input type="checkbox"/> AC <input type="checkbox"/> DC

Emergency Brake

ASME A17.1-2000/CSA B44-00 or later requires the addition of an emergency brake on all new traction elevators, per 2.19. Also note that some alterations will trigger the requirement to add an emergency brake as well (i.e., change in type of service or motion control; increase in rated load or speed; and replacing the driving machine)
<input type="checkbox"/> Hollister Whitney Rope Gripper <input type="checkbox"/> Thyssen Sheave Brake <input type="checkbox"/> Bode Rope Brake <input type="checkbox"/> Other (_____) <input type="checkbox"/> Secondary/Independent Brake on machine Power Supply of Brake: <input type="checkbox"/> 120VAC, 3A slow-blow fuse (Std) <input type="checkbox"/> Other
If other, please specify: Voltage: _____ FLA: _____

Hoist Motor

Variable Frequency AC
<input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> New by MCE (fill additional form) Brand: _____ HP: _____ Volts: _____ FLA: _____ FL RPM: _____ # Poles: _____ Sync RPM: _____ Frequency: _____ For 2-speed motor, measure high speed winding. Encoder cable length: _____
Other name plate data: _____
Variable Voltage DC
<input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> New by MCE Brand: _____ Volts: _____ HP: _____ RPM: _____ FLA: _____
Other name plate data: _____
Shunt field voltage: Forcing: _____ Full Speed: _____ Standing: _____
Shunt field resistance: <input type="checkbox"/> Measured <input type="checkbox"/> Data Sheet # of coils: <input type="checkbox"/> Series <input type="checkbox"/> Series/Parallel <input type="checkbox"/> Hot <input type="checkbox"/> Cold
Loop Circuit Voltage while running (measure on motor brushes): Up empty car: _____ VDC at speed: _____ Down empty car: _____ VDC at speed: _____
Loop Circuit Current while running: Up empty car: _____ Amps at speed: _____ Down empty car: _____ Amps at speed: _____
Velocity feedback
<input type="checkbox"/> By MCE <input type="checkbox"/> By others <input type="checkbox"/> Tachometer <input type="checkbox"/> Encoder <input type="checkbox"/> Flange <input type="checkbox"/> Foot Encoder cable length: _____ (ft)
If gearless: Drive sheave diameter: _____ Diameter of surface to run tach: _____

Door Information

Car Gate

Automatic passenger style doors
 Powered freight style doors
 Manual doors
 Other: _____

Gate Release Solenoid (not standard) Yes No

Voltage: _____ 3-Phase AC 1-Phase AC DC
 Fuse: 2A 3A Other: _____

Hoistway Doors

Automatic passenger style doors
 Powered freight style doors
 Manual doors (complete below)
 Other: _____ (complete below)

Interlocks:
 Door Closed contact Yes No
 Door Locked contact Yes No
 Brand: _____ Model: _____

Door locking cam
 Retiring (not driven by automatic passenger style car gate)
 Voltage: _____ 3-Ph AC 1-Ph AC DC
 Fuse: 2A 3A Other: _____

Fixed cam
 Bar lock (manually operated)
 Mechanical
 (driven by automatic passenger style car gate)

Door Features

Infrared detector unit/photo eye
 Cut-out switch in COP
 Anti-Nuisance

Mechanical safety edge

Heavy doors at landings (list landings): _____

Dual door operators on same side for wide opening

Cartop door open/close buttons
 (non solid state door operators)

Door Hold Operation (non-fire operation)
 Switch Button (max hold = 120 seconds)

Nudging
 Reduced torque with buzzer
 Buzzer only
 Ignore photo eye after _____ seconds

If safety edge or door open button activated, doors should:
 Stop Re-open Other: _____

Sketch or Special Instructions

Blank area for sketch or special instructions.

Automatic Passenger Style Doors

MCE
 SmarTraq Complete (Complete SmarTraq data forms)
 SmarTraq Upgrade
 (Upgrades existing operator to closed loop. Mark existing model below.)

GAL
 MOVFR I
 Voltage: 220VAC 110VAC
 (220 is default if no selection made)

MOVFR II
 MOMVC/MOHVC MOM/MOH
 MOD (230V) MOSVCL
 MOD (115V) MOPM-P/MOPM-PL
 MODHA MOCT/MOCTA/MODCT/
 MOMCT/MOHCT
 Motor Voltage: 220 110
 Logic Voltage: 220 110

MAC/Kone
 PM-SSC/104 Board MAC (old style)
 AMD/Kone

TKE/Dover
 HD03M HDLM
 HD68/70/73/91
 HD98/85 (Requires SmarTraq upgrade kit)

Otis
 6970A – Resistance 6970A – Reactance
 7300 A7770A
 7782AA OVL
 iMotion 1 & 2 AT400

ECI
 895/1000 VFE2500
 2000 Voltage: 220VAC 115VAC
 (220 is default if no selection made)

Other
 IPC Encore (closed loop) Mitsubishi LV1/4K
 Delco (closed loop) Schindler QKS 14 & 15
 Atlantic/Vertisys Model:
 Other (wiring diagram required):

Powered Freight Style Doors

Door Controller Model

Peelle New Existing
Model: _____ (electrical schematic required)

Courion New Existing
Model: _____ (electrical schematic required)

EMS New Existing
Model: _____ (electrical schematic required)

Other New Existing
Model: _____ (electrical schematic required)

Door Operation (freight only)

Opening: Automatic Momentary pressure

Closing: Automatic Momentary pressure
 Constant pressure

Fire Ph. I Closing: Automatic Momentary pressure
 Constant pressure

Call Registration Indicators

All push buttons designed as standard mechanical style unless noted on special instructions

Car Calls: Voltage: 24 48 120 Other: _____
 AC DC
 Type: LED Neon Incandescent

Hall Calls: Voltage: 24 48 120 Other: _____
 AC DC
 Type: LED Neon Incandescent

Auxiliary Car Station: Yes No
 Total # of car stations in each car: 1 2 3 4

Serial Link (Fixtures must be 24VDC, 6 watts max)

Car Operating Panel Hall Calls
 Call pushbuttons must be mechanical.

Serial fixture boards to be sent to fixture manufacturer / contractor for pre-wire? Yes (If so, indicate where below)
 No

- Ship serial boards to to:
- C.E. Electronics EPCO Dupar
 - Innovation Industries Monitor MAD
 - ERM PTL
 - Elevator Contractor Office

Please indicate Contact Person/ Number in Special Notes below
 Which boards to be sent?: COP Hall Station

Position Indicators

Car
 MCE CE 3-wire driver board (built into controller)
 MCE E-Motive 3-wire driver board (built into controller)
 Customer supplied serial driver board (not in controller)
 Discrete signals (Multi-Light or non-serial digital)
 *Provide information below:
 Voltage: 24 48 120 Other: _____
 AC +DC -DC
 Type: Multi-light
 Digital (not MCE Driver board)
 Brand: _____ Model: _____
 One line per floor
 Binary code begins at landing 1
 00 01

Hall
 Location: All floors Main fire return Other: _____
 MCE CE 3-wire driver board (built into controller)
 MCE E-Motive 3-wire driver board (built into controller)
 Customer supplied serial driver board (not in controller)
 Discrete signals (Multi-Light or non-serial digital)
 *Provide information below:
 Voltage: 24 48 120 Other: _____
 AC +DC -DC
 Type: Multi-light
 Digital (not MCE Driver board)
 Brand: _____ Model: _____
 One line per floor
 Binary code begins at landing 1
 00 01

Voice annunciation (ADA required over 200 FPM)
 MCE CE 3-wire driver board interface (built into controller)
 MCE E-Motive 3-wire driver board interface (built into controller)
 By other, discrete signals requested (i.e., fire service): _____
 Custom messages-non standard please indicate below

Lanterns:

Car lanterns
 MCE CE 3-wire driver board (built into controller)
 MCE E-Motive 3-wire driver board (built into controller)
 Discrete signals – Bulb wattage _____
 Voltage: 24 48 120 Other: _____
 AC DC
 Type: Chime Gong

Hall Lanterns
 MCE CE 3-wire driver board (built into controller)
 MCE E-Motive 3-wire driver board (built into controller)
 Discrete signals – Bulb wattage _____
 Voltage: 24 48 120 Other: _____
 AC DC
 Type: Chime Gong

Passing floor signal
 MCE CE 3-wire driver board (built into controller)
 MCE E-Motive 3-wire driver board (built into controller)
 Discrete signals
 Voltage: 24 48 120 Other: _____
 AC DC
 Type: Chime Gong
 Passing floor enable (“s” button)

Status Indicators

Type	Volts	AC	DC
Attendant Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Attendant Buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
EQ Indicator/buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Annunciator panel display	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Call Registration Buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Door Closing Buzzer (typically freight only)	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Door Hold Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Door Left Open Bell	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Emergency Power Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
EMT Service Light, Car	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
EMT Service Light, Hall	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Fire Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Fire Buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____ <input type="checkbox"/> MCE CE 3-wire driver board (built into controller)	<input type="checkbox"/>	<input type="checkbox"/>
Hospital Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Hospital Buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
In-Service Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
In-Use Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Load Status Light	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
Nudging Buzzer	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____ <input type="checkbox"/> MCE CE 3-wire driver board (built into controller)	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 120 <input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>



Motion Control Engineering
 Voice: 916 463 9200
 Fax: 916 463 9201

Motion 4000 Traction Engineering Survey Form

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Doc #: 42-FR-0450 A2 (JER130)
 www.nidec-mce.com

Landings & Openings

Ldg #	Floor Label	Floor Height	Car		Car		Car		Car		Car		Car	
			F	R	F	R	F	R	F	R	F	R	F	R
	O.H.													
32			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	PIT													
Capacity: <input type="checkbox"/> kg <input type="checkbox"/> lbs														
Up Speed: <input type="checkbox"/> ms <input type="checkbox"/> fpm														
Down Speed:														
Total Travel: <input type="checkbox"/> m <input type="checkbox"/> ft														

Number of hoistways: _____

Hoistway NEMA Rating:
 1 (standard) 12 4 4 X
 Other: _____

Landing System:
 ELGO (standard) LS-EDGE
 Tape length: _____

Sprinkler Installations
 In machine room
 In hoistway
 In pit at 24" or less (NEMA 4 required below 48")

ECCO limit switches by MCE for Final limits only

TM Switch (music box)

Hand held Unit - mPAC
 (Recommended but not required)

MCE Traveling cable
 If yes, please fill out cable data form

Machine room space limitations?
 Indicate enclosure space available. Otherwise, enclosure size based on job requirements. (Check entry hall and door sizes.)
 _____ H x _____ W x _____ D

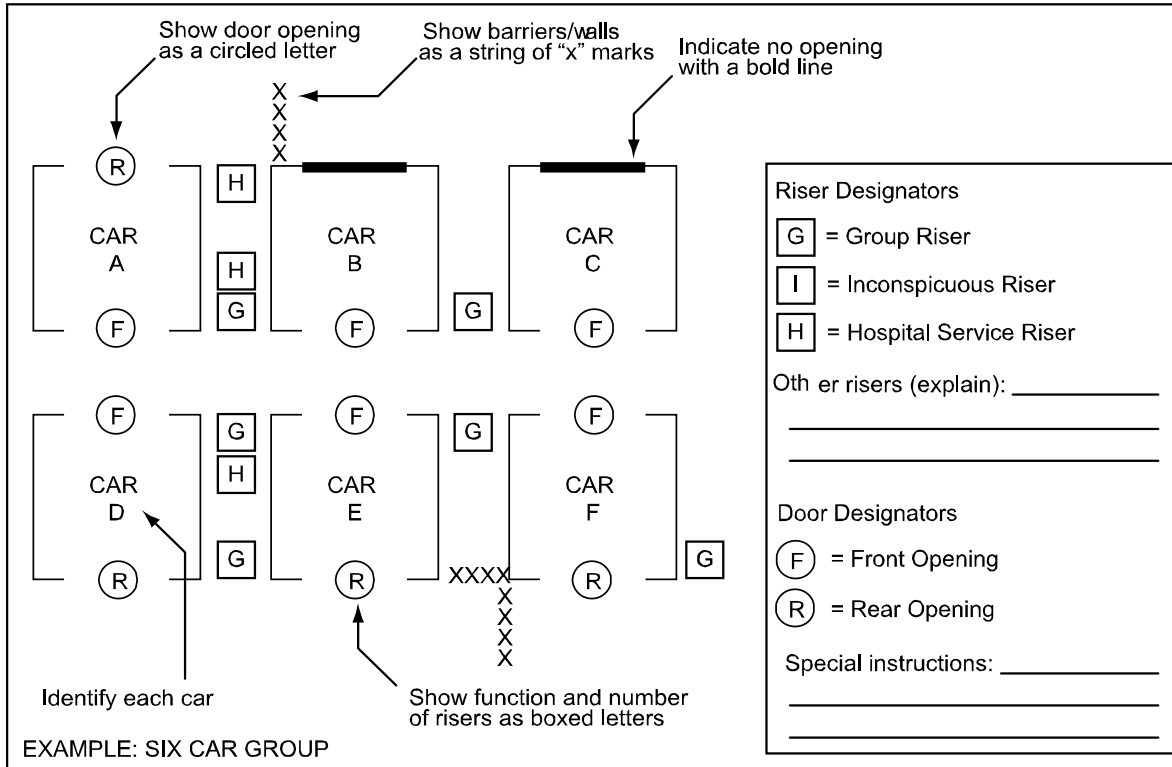
Machine room location: Overhead
 Basement Other

Number of machine rooms: _____

Machine room NEMA rating: 1 (std)
 12 4 4X
 Air conditioned enclosure (recommended for all but NEMA 1)
 GFCI outlet required in enclosure (added charge)
 Light required in enclosure (added charge)

NOTE: Floor Label note: If using CE or E-Motive driver board, floor label should not be more characters than the number of digital PI display characters (##)

NOTE: Hoistway Layout Forms are required for each unique landing configuration including riser, opening, and wall/barrier location. These forms must be filled out by hand and faxed to MCE. Enter the number of drawings you are submitting here: _____



Sketch your layout in the grid area. Alternately, use separate sheets of paper (with your job number)

