

ELEVATOR HOISTWAY

ELEVATOR MACHINE ROOM

TOP FLOOR

<p><u>TOP OF SHAFT REQUIREMENTS</u></p> <p>SPRINKLER HEAT DETECTOR/FLOW SWITCH SMOKE DETECTOR 10 FTC LIGHTING</p> <p><u>HOISTWAY VENTILATION TO EXTERIOR</u> REQUIRED IF: UNSPRINKLERED; PENETRATION THRU 3 OR MORE FLOORS; SPRINKLERED, R-1, R-2, I-1 & I-2, OCCUPANCIES PENETRATES 3 OR MORE FLOORS</p>	<p><u>MACHINE ROOM REQUIREMENTS</u></p> <p>SPRINKLER HEAT DETECTOR SWITCH SMOKE DETECTOR GFCI RECEPTACLE LIGHT SWITCH 19 FTC LIGHT FIRE EXTINGUISHER TEMPERATURE AND HUMIDITY: EXHAUST ONLY TRANSFER AIR EXHAUST WITH SUPPLY FROM CENTRAL AHU INDIVIDUAL FAN COIL UNIT</p>
<p><u>PIT REQUIREMENTS</u></p> <p>SPRINKLER GFCI RECEPTACLE LIGHT SWITCH 10 FTC LIGHT NEMA-4 WIRING PIT STOP SWITCH DRAIN/SUMP PUMP SUMP COVER</p> <p>SUMP PUMP DISCHARGE PER PLUMBING CODE REQUIREMENTS</p>	

BOTTOM FLOOR



Consulting Engineers

a division of TME, Inc.

5800 EVERGREEN DRIVE
LITTLE ROCK, ARKANSAS 72205-1757
Phone: (501) 666-6776 Fax: (501) 663-8888
tme@tmecorp.com

BUILDING SCENARIO #4

BUILDING COMPLETELY SPRINKLERED PER NFPA 13
COMBUSTIBLE HOISTWAY
ELECTRIC TRACTION ELEVATOR
PENTHOUSE MACHINE ROOM

HOISTWAY

CONTROL CLOSET

TOP FLOOR

<p><u>TOP OF SHAFT REQUIREMENTS</u></p> <p>10 FTC LIGHTING</p> <p>HOISTWAY VENTILATION TO EXTERIOR REQUIRED IF: UNSPRINKLERED; PENETRATION THRU 3 OR MORE FLOORS; SPRINKLERED, R-1, R-2, I-1 & I-2, OCCUPANCIES PENETRATES 3 OR MORE FLOORS</p>
<p><u>PIT REQUIREMENTS</u></p> <p>SPRINKLER GFCI RECEPTACLE LIGHT SWITCH 10 FTC LIGHT NEMA-4 WIRING PIT STOP SWITCH DRAIN/SUMP PUMP SUMP COVER SUMP PUMP DISCHARGE PER PLUMBING CODE REQUIREMENTS</p>

<p><u>CLOSET REQUIREMENTS</u></p> <p>SPRINKLER HEAT DETECTOR SWITCH SMOKE DETECTOR GFCI RECEPTACLE LIGHT SWITCH 19 FTC LIGHT FIRE EXTINGUISHER TEMPERATURE AND HUMIDITY: EXHAUST ONLY TRANSFER AIR EXHAUST WITH SUPPLY FROM CENTRAL AHU INDIVIDUAL FAN COIL UNIT</p>
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BUILDING SCENARIO MRL-2

BUILDING COMPLETELY SPRINKLERED PER NFPA 13.
NEW PASSENGER ELEVATOR
NON-COMBUSTIBLE HOISTWAY
MACHINE ROOM LESS (MRL) ELEVATOR
DRIVE MACHINE IN ELEVATOR PIT

HOISTWAY

CONTROL CLOSET

TOP FLOOR

TOP OF SHAFT REQUIREMENTS

SPRINKLER
HEAT DETECTOR/FLOW SWITCH
SMOKE DETECTOR
10 FTC LIGHTING

HOISTWAY VENTILATION TO EXTERIOR
REQUIRED IF: UNSPRINKLERED; PENETRATION THRU 3 OR MORE
FLOORS; SPRINKLERED, R-1, R-2, I-1 & I-2, OCCUPANCIES
PENETRATES 3 OR MORE FLOORS

CLOSET REQUIREMENTS

SPRINKLER
HEAT DETECTOR SWITCH
SMOKE DETECTOR
GFCI RECEPTACLE
LIGHT SWITCH
19 FTC LIGHT
FIRE EXTINGUISHER
TEMPERATURE AND HUMIDITY:
EXHAUST ONLY TRANSFER AIR
EXHAUST WITH SUPPLY FROM
CENTRAL AHU
INDIVIDUAL FAN COIL UNIT

PIT REQUIREMENTS

GFCI RECEPTACLE
LIGHT SWITCH
10 FTC LIGHT
NEMA-4 WIRING
PIT STOP SWITCH
DRAIN/SUMP PUMP
SUMP COVER

SUMP PUMP DISCHARGE PER PLUMBING CODE REQUIREMENTS

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BUILDING SCENARIO MRL-1

BUILDING COMPLETELY SPRINKLERED PER NFPA 13
NEW PASSENGER ELEVATOR
NON-COMBUSTIBLE HOISTWAY
MACHINE ROOM LESS (MRL) ELEVATOR
CABINET STYLE MACHINERY SPACE AT TOP OF HOISTWAY

ELEVATOR HOISTWAY

ELEVATOR MACHINE ROOM

TOP FLOOR

TOP OF SHAFT REQUIREMENTS

SPRINKLER
 HEAT DETECTOR/FLOW SWITCH
 SMOKE DETECTOR
 10 FTC LIGHTING

HOISTWAY VENTILATION TO EXTERIOR
 REQUIRED IF: UNSPRINKLERED; PENETRATION THRU 3 OR MORE
 FLOORS; SPRINKLERED, R-1, R-2, I-1 & I-2, OCCUPANCIES
 PENETRATES 3 OR MORE FLOORS

PIT REQUIREMENTS

SPRINKLER
 GFCI RECEPTACLE
 LIGHT SWITCH
 10 FTC LIGHT
 NEMA-4 WIRING
 PIT STOP SWITCH
 DRAIN/SUMP PUMP
 SUMP COVER

SUMP PUMP DISCHARGE PER PLUMBING CODE REQUIREMENTS

MACHINE ROOM REQUIREMENTS

SPRINKLER
 HEAT DETECTOR SWITCH
 SMOKE DETECTOR
 GFCI RECEPTACLE
 LIGHT SWITCH
 19 FTC LIGHT
 FIRE EXTINGUISHER
 TEMPERATURE AND HUMIDITY:
 EXHAUST ONLY TRANSFER AIR
 EXHAUST WITH SUPPLY FROM
 CENTRAL AHU
 INDIVIDUAL FAN COIL UNIT

BOTTOM FLOOR



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BUILDING SCENARIO H-2

BUILDING COMPLETELY SPRINKLERED PER NFPA 13
NEW FREIGHT ELEVATOR
NON-COMBUSTIBLE HOISTWAY
HYDRAULIC ELEVATOR
MACHINE ROOM IN BASEMENT

ELEVATOR HOISTWAY

ELEVATOR MACHINE ROOM

TOP FLOOR

TOP OF SHAFT REQUIREMENTS

10 FTC LIGHTING

HOISTWAY VENTILATION TO EXTERIOR
REQUIRED IF: UNSPRINKLERED; PENETRATION THRU 3 OR MORE
FLOORS; SPRINKLERED, R-1, R-2, I-1 & I-2, OCCUPANCIES
PENETRATES 3 OR MORE FLOORS

PIT REQUIREMENTS

SPRINKLER
GFCI RECEPTACLE
LIGHT SWITCH
10 FTC LIGHT
NEMA-4 WIRING
PIT STOP SWITCH
DRAIN/SUMP PUMP
SUMP COVER

SUMP PUMP DISCHARGE PER PLUMBING CODE REQUIREMENTS

MACHINE ROOM REQUIREMENTS

SPRINKLER
HEAT DETECTOR SWITCH
SMOKE DETECTOR
GFCI RECEPTACLE
LIGHT SWITCH
19 FTC LIGHT
FIRE EXTINGUISHER
TEMPERATURE AND HUMIDITY:
EXHAUST ONLY TRANSFER AIR
EXHAUST WITH SUPPLY FROM
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BUILDING SCENARIO H-1

BUILDING COMPLETELY SPRINKLERED PER NFPA 13
NEW PASSENGER ELEVATOR
NON-COMBUSTIBLE HOISTWAY
HYDRAULIC ELEVATOR
MACHINE ROOM IN BASEMENT

HOISTWAY

MACHINE ROOM

TOP FLOOR

TOP OF SHAFT REQUIREMENTS

SPRINKLER
HEAT DETECTOR/FLOW SWITCH
SMOKE DETECTOR
10 FTC LIGHTING

HOISTWAY VENTILATION TO EXTERIOR
REQUIRED IF: UNSPRINKLERED; PENETRATION THRU 3 OR MORE
FLOORS; SPRINKLERED, R-1, R-2, I-1 & I-2, OCCUPANCIES
PENETRATES 3 OR MORE FLOORS

MACHINE ROOM REQUIREMENTS

SPRINKLER
HEAT DETECTOR SWITCH
SMOKE DETECTOR
GFCI RECEPTACLE
LIGHT SWITCH
19 FTC LIGHT
FIRE EXTINGUISHER
TEMPERATURE AND HUMIDITY:
EXHAUST ONLY TRANSFER AIR
EXHAUST WITH SUPPLY FROM
CENTRAL AHU
INDIVIDUAL FAN COIL UNIT

PIT REQUIREMENTS

SPRINKLER
GFCI RECEPTACLE
LIGHT SWITCH
10 FTC LIGHT
NEMA-4 WIRING
PIT STOP SWITCH
DRAIN/SUMP PUMP
SUMP COVER

SUMP PUMP DISCHARGE PER PLUMBING CODE REQUIREMENTS

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BUILDING SCENARIO E-2

BUILDING COMPLETELY SPRINKLERED PER NFPA 13
NEW FREIGHT ELEVATOR
NON-COMBUSTIBLE HOISTWAY
ELECTRIC TRACTION ELEVATOR
MACHINE ROOM

HOISTWAY

MACHINE ROOM

TOP FLOOR

<p><u>TOP OF SHAFT REQUIREMENTS</u></p> <p>10 FTC LIGHTING</p> <p><u>HOISTWAY VENTILATION TO EXTERIOR</u> REQUIRED IF: UNSPRINKLERED; PENETRATION THRU 3 OR MORE FLOORS; SPRINKLERED, R-1, R-2, I-1 & I-2, OCCUPANCIES PENETRATES 3 OR MORE FLOORS</p>	<p><u>MACHINE ROOM REQUIREMENTS</u></p> <p>SPRINKLER HEAT DETECTOR SWITCH SMOKE DETECTOR GFCI RECEPTACLE LIGHT SWITCH 19 FTC LIGHT FIRE EXTINGUISHER TEMPERATURE AND HUMIDITY: EXHAUST ONLY TRANSFER AIR EXHAUST WITH SUPPLY FROM CENTRAL AHU INDIVIDUAL FAN COIL UNIT</p>
<p><u>PIT REQUIREMENTS</u></p> <p>GFCI RECEPTACLE LIGHT SWITCH 10 FTC LIGHT NEMA-4 WIRING PIT STOP SWITCH DRAIN/SUMP PUMP SUMP COVER</p> <p>SUMP PUMP DISCHARGE PER PLUMBING CODE REQUIREMENTS</p>	

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BUILDING SCENARIO E-1

BUILDING COMPLETELY SPRINKLERED PER NFPA 13
NEW PASSENGER ELEVATOR
NON-COMBUSTIBLE HOISTWAY
ELECTRIC TRACTION ELEVATOR
MACHINE ROOM

ELEVATOR HOISTWAY

ELEVATOR MACHINE ROOM

TOP FLOOR

<p><u>TOP OF SHAFT REQUIREMENTS</u></p> <p>SPRINKLER HEAT DETECTOR/FLOW SWITCH SMOKE DETECTOR 10 FTC LIGHTING</p> <p><u>HOISTWAY VENTILATION TO EXTERIOR</u> REQUIRED IF: UNSPRINKLERED; PENETRATION THRU 3 OR MORE FLOORS; SPRINKLERED, R-1, R-2, I-1 & I-2, OCCUPANCIES PENETRATES 3 OR MORE FLOORS</p>	
<p><u>PIT REQUIREMENTS</u></p> <p>SPRINKLER GFCI RECEPTACLE LIGHT SWITCH 10 FTC LIGHT NEMA-4 WIRING PIT STOP SWITCH DRAIN/SUMP PUMP SUMP COVER</p>	
<p>SUMP PUMP DISCHARGE PER PLUMBING CODE REQUIREMENTS</p>	

<p><u>MACHINE ROOM REQUIREMENTS</u></p> <p>SPRINKLER HEAT DETECTOR SWITCH SMOKE DETECTOR GFCI RECEPTACLE LIGHT SWITCH 19 FTC LIGHT FIRE EXTINGUISHER TEMPERATURE AND HUMIDITY: EXHAUST ONLY TRANSFER AIR EXHAUST WITH SUPPLY FROM CENTRAL AHU INDIVIDUAL FAN COIL UNIT</p>
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BUILDING SCENARIO #4
BUILDING COMPLETELY SPRINKLERED PER NFPA 13
COMBUSTIBLE HOISTWAY
HYDRAULIC ELEVATOR
PENTHOUSE MACHINE ROOM

HOISTWAY

CONTROL CLOSET

TOP FLOOR

TOP OF SHAFT REQUIREMENTS

SPRINKLER
 HEAT DETECTOR/FLOW SWITCH
 SMOKE DETECTOR
 10 FTC LIGHTING

HOISTWAY VENTILATION TO EXTERIOR
 REQUIRED IF: UNSPRINKLERED; PENETRATION THRU 3 OR MORE
 FLOORS; SPRINKLERED, R-1, R-2, I-1 & I-2, OCCUPANCIES
 PENETRATES 3 OR MORE FLOORS

CLOSET REQUIREMENTS

SPRINKLER
 HEAT DETECTOR SWITCH
 SMOKE DETECTOR
 GFCI RECEPTACLE
 LIGHT SWITCH
 19 FTC LIGHT
 FIRE EXTINGUISHER
 TEMPERATURE AND HUMIDITY:
 EXHAUST ONLY TRANSFER AIR
 EXHAUST WITH SUPPLY FROM
 CENTRAL AHU
 INDIVIDUAL FAN COIL UNIT

PIT REQUIREMENTS

SPRINKLER
 GFCI RECEPTACLE
 LIGHT SWITCH
 10 FTC LIGHT
 NEMA-4 WIRING
 PIT STOP SWITCH
 DRAIN/SUMP PUMP
 SUMP COVER

SUMP PUMP DISCHARGE PER PLUMBING CODE REQUIREMENTS

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BUILDING SCENARIO MRL-3
BUILDING COMPLETELY SPRINKLERED PER NFPA 13.
NEW FREIGHT ELEVATOR
NON-COMBUSTIBLE HOISTWAY
MACHINE ROOM LESS (MRL) ELEVATOR