

**SUMMIT COUNTY – PREVENTATIVE
MAINTENANCE SPECIFICATIONS**

**EQUIPMENT INVENTORY
SUMMIT COUNTY COURTHOUSE MAIN & ANNEX**

BUILDING NAME	TYPE	PM Schedule		Estimated PM Hours/Month
		Monthly		
Summit County Courthouse	Three (3) Traction	One (1) Hour/Unit		Three (3) Hours/Month
Total		Three (3) Hours	5 Yr. LoadTest	Three (3) Hours/Month Plus (1) Annual Safety Test

Preventative Maintenance (PM) hours are inspection time only and DO NOT include callbacks, repairs, upgrades or code mandated testing. Estimated PM hours are minimum requirements for this agreement.

EQUIPMENT SUMMARY

Unit No.	1 & 2	3
Type:	Geared Overhead Traction – Passenger 350 fpm	Geared Overhead Traction – Passenger 200 fpm
Operation	Duplex – Motion Control Selective/Collective	Simplex – Motion Control Selective/Collective
Capacity	2500 lbs.	2500 lbs.
Stops	5 stops/ 5 front/ 0 rear	4 stops/ 4 front /0 rear
Installation Contractor	Schindler	Schindler
Door Type	Double Bypass	Double Bypass
Door Size	3'9" x 7'0"	3'9" x 7'0"
Door Protection	IR Detector	IR Detector

SUMMIT COUNTY – PREVENTATIVE MAINTENANCE SPECIFICATIONS

EQUIPMENT PERFORMANCE

Unit Type	One Floor Run Up or down (12"-0" floor to floor)	Rated Speed±	Leveling±	Accel/Decel
Traction	10.0/10.5 Seconds	3%	¼	3.0 ft/sec ²

Floor to Floor Performance Time: Measured from the instant the doors begin to close until doors are 3/4 open (1/2 open for side opening doors) and car is stopped at next successive floor under any loading condition or travel direction.

Elevator Speed: Elevator speed is measured with a tachometer while the elevator makes a full run through the hoistway with no load in the car. Contract speed (to be found on the governor rating plate or the cross head on the car) should be maintained within criteria range indicated on individual performance evaluations under any load condition or travel direction.

Unit Type	Door Opening	Door Closing	Closing Pressure	Car Call Dwell Time	Hall Car Dwell Time	Nudging
Traction	2.0/2.5 Seconds	2.5/3.0 Seconds	Less Than 30 lbs.	3.0/3.5 Seconds	5.0/6.0 Seconds	20.0/25.0 Seconds

Door Open Time: Measured from the instant the doors begin to open until the doors are fully open. Door opening time should be as fast as possible to provide optimum adjustment of efficient elevator service. Our recommended door times are based on the door operator equipment installed while providing smooth operation and long equipment life.

SUMMIT COUNTY – PREVENTATIVE MAINTENANCE SPECIFICATIONS

Door Closing Time: Measured from the instant the doors begin to close until the doors are fully closed. The ASME A17.1 Code limits door closing time by defining the level of kinetic energy generated during door closing operation. We indicate the closing time which approximates Code requirement based on average door weight.

Door Closing Pressure: Measured with a spring pressure gauge as the doors begin to close. The measured value is the force required to prevent the doors from closing under power. ASME A17.1 Code requires that the force required to stall the closing door be no more than 30 force pounds.

Car Call Dwell Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a car call. It may also be reduced by re-registering a car call after the initial opening of the doors. Minimum time of 3 seconds is required by The Americans with Disabilities Act (A.D.A.).

Long Door Hold Open Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a hall call. Minimum time of 5 seconds is required by The Americans with Disabilities Act (A.D.A.).

Nudging: Measured from the instant the doors reach the fully open position until the door buzzer sounds and the doors begin to close at reduced speed even though the door protective devices are interrupted.

**SUMMIT COUNTY – PREVENTATIVE
MAINTENANCE SPECIFICATIONS**

**EQUIPMENT INVENTORY
SUMMIT COUNTY BOARD OF ELECTIONS**

BUILDING NAME	TYPE	PM Schedule		Estimated PM Hours
		Monthly	Quarterly	
Summit County Board of Elections	One (1) Hydraulic		One (1) Hour/Unit	Four (4) Hour/Annually
				Annual Safety Test

Preventative Maintenance (PM) hours are inspection time only and DO NOT include callbacks, repairs, upgrades or code mandated testing. Estimated PM hours are minimum requirements for this agreement.

EQUIPMENT SUMMARY

Unit No.	1
Type:	DOVER - Hydraulic Passenger Ohio Registration Cert: # 40048
Operation	Simplex Selective/Collective
Capacity	2500 lbs.
Stops	2 stops/ 2 front/ 0 rear
Installation Contractor	Dover Elevator Corporation
Door Type	Single Slide
Door Size	3'0" x 7'0"
Door Protection	IR Detector

MAINTENANCE SPECIFICATIONS**EQUIPMENT PERFORMANCE**

Unit Type	One Floor Run Up or down (12"-0" floor to floor)	Rated Speed±	Leveling±	Accel/Decel
Hydraulic-100 fpm	15.0/15.5 Seconds	10%	¼	2.5 ft/sec ²

Floor to Floor Performance Time: Measured from the instant the doors begin to close until doors are 3/4 open (1/2 open for side opening doors) and car is stopped at next successive floor under any loading condition or travel direction.

Elevator Speed: Elevator speed is measured with a tachometer while the elevator makes a full run through the hoistway with no load in the car. Contract speed (to be found on the governor rating plate or the cross head on the car) should be maintained within criteria range indicated on individual performance evaluations under any load condition or travel direction.

Unit Type	Door Opening	Door Closing	Closing Pressure	Car Call Dwell Time	Hall Car Dwell Time	Nudging
Hydraulic	2.0/2.5 Seconds	2.5/3.0 Seconds	Less Than 30 lbs.	3.0/3.5 Seconds	5.0/6.0 Seconds	20.0/25.0 Seconds

Door Open Time: Measured from the instant the doors begin to open until the doors are fully open. Door opening time should be as fast as possible to provide optimum adjustment of efficient elevator service. Our recommended door times are based on the door operator equipment installed while providing smooth operation and long equipment life.

SUMMIT COUNTY – PREVENTATIVE MAINTENANCE SPECIFICATIONS

Door Closing Time: Measured from the instant the doors begin to close until the doors are fully closed. The ASME A17.1 Code limits door closing time by defining the level of kinetic energy generated during door closing operation. We indicate the closing time which approximates Code requirement based on average door weight.

Door Closing Pressure: Measured with a spring pressure gauge as the doors begin to close. The measured value is the force required to prevent the doors from closing under power. ASME A17.1 Code requires that the force required to stall the closing door be no more than 30 force pounds.

Car Call Dwell Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a car call. It may also be reduced by re-registering a car call after the initial opening of the doors. Minimum time of 3 seconds is required by The Americans with Disabilities Act (A.D.A.).

Long Door Hold Open Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a hall call. Minimum time of 5 seconds is required by The Americans with Disabilities Act (A.D.A.).

Nudging: Measured from the instant the doors reach the fully open position until the door buzzer sounds and the doors begin to close at reduced speed even though the door protective devices are interrupted.

**SUMMIT COUNTY – PREVENTATIVE
MAINTENANCE SPECIFICATIONS**

**EQUIPMENT INVENTORY
SUMMIT COUNTY ENVIRONMENTAL SERVICES**

BUILDING NAME	TYPE	PM Schedule		Estimated PM Hours
		Monthly	Quarterly	
Summit County Environmental Services	One (1) Hydraulic		One (1) Hour/Unit	Four (4) Hour/Annually
				One (1) Safety Test

Preventative Maintenance (PM) hours are inspection time only and DO NOT include callbacks, repairs, upgrades or code mandated testing. Estimated PM hours are minimum requirements for this agreement.

EQUIPMENT SUMMARY

Unit No.	1	
Type:	Otis Hydraulic Passenger Ohio Registration Cert: # 40733	
Operation	Simplex – Controller Selective/Collective	
Capacity	2100 lbs.	
Stops	3 stops/ 3 front/ 0 rear	
Installation Contractor	Otis Elevator	
Door Type	Single Slide	
Door Size	3'0" x 7'0"	
Door Protection	IR Detector	

EQUIPMENT PERFORMANCE

Unit Type	One Floor Run Up or down (12"-0" floor to floor)	Rated Speed±	Leveling±	Accel/Decel
Hydraulic-125 fpm	15.0/15.5 Seconds	10%	¼	2.5 ft/sec ²

Floor to Floor Performance Time: Measured from the instant the doors begin to close until doors are 3/4 open (1/2 open for side opening doors) and car is stopped at next successive floor under any loading condition or travel direction.

Elevator Speed: Elevator speed is measured with a tachometer while the elevator makes a full run through the hoistway with no load in the car. Contract speed (to be found on the governor rating plate or the cross head on the car) should be maintained within criteria range indicated on individual performance evaluations under any load condition or travel direction.

Unit Type	Door Opening	Door Closing	Closing Pressure	Car Call Dwell Time	Hall Car Dwell Time	Nudging
Hydraulic	2.0/2.5 Seconds	2.5/3.0 Seconds	Less Than 30 lbs.	3.0/3.5 Seconds	5.0/6.0 Seconds	20.0/25.0 Seconds

Door Open Time: Measured from the instant the doors begin to open until the doors are fully open. Door opening time should be as fast as possible to provide optimum adjustment of efficient elevator service. Our recommended door times are based on the door operator equipment installed while providing smooth operation and long equipment life.

MAINTENANCE SPECIFICATIONS

Door Closing Time: Measured from the instant the doors begin to close until the doors are fully closed. The ASME A17.1 Code limits door closing time by defining the level of kinetic energy generated during door closing operation. We indicate the closing time which approximates Code requirement based on average door weight.

Door Closing Pressure: Measured with a spring pressure gauge as the doors begin to close. The measured value is the force required to prevent the doors from closing under power. ASME A17.1 Code requires that the force required to stall the closing door be no more than 30 force pounds.

Car Call Dwell Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a car call. It may also be reduced by re-registering a car call after the initial opening of the doors. Minimum time of 3 seconds is required by The Americans with Disabilities Act (A.D.A.).

Long Door Hold Open Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a hall call. Minimum time of 5 seconds is required by The Americans with Disabilities Act (A.D.A.).

Nudging: Measured from the instant the doors reach the fully open position until the door buzzer sounds and the doors begin to close at reduced speed even though the door protective devices are interrupted.

**SUMMIT COUNTY – PREVENTATIVE
MAINTENANCE SPECIFICATIONS**

**EQUIPMENT INVENTORY
SUMMIT COUNTY JAIL**

BUILDING NAME	TYPE	PM Schedule		Estimated PM Hours
		Monthly	Quarterly	
Summit County Jail	One (1) Hydraulic		One (1) Hour/Unit	Four (4) Hour/Annually
				One (1) Safety Test

Preventative Maintenance (PM) hours are inspection time only and DO NOT include callbacks, repairs, upgrades or code mandated testing. Estimated PM hours are minimum requirements for this agreement.

EQUIPMENT SUMMARY

Unit No.	1
Type:	DOVER - Hydraulic Passenger Ohio Registration Cert: # 31206
Operation	Simplex Selective/Collective
Capacity	3500 lbs.
Stops	2 stops/ 2 front/ 0 rear
Installation Contractor	Dover Elevator
Door Type	Single Slide
Door Size	3'0" x 7'0"
Door Protection	IR Detector

EQUIPMENT PERFORMANCE

Unit Type	One Floor Run Up or down (12"-0" floor to floor)	Rated Speed±	Leveling±	Accel/Decel
Hydraulic-125fpm	15.0/15.5 Seconds	10%	¼	2.5 ft/sec ²

Floor to Floor Performance Time: Measured from the instant the doors begin to close until doors are 3/4 open (1/2 open for side opening doors) and car is stopped at next successive floor under any loading condition or travel direction.

Elevator Speed: Elevator speed is measured with a tachometer while the elevator makes a full run through the hoistway with no load in the car. Contract speed (to be found on the governor rating plate or the cross head on the car) should be maintained within criteria range indicated on individual performance evaluations under any load condition or travel direction.

Unit Type	Door Opening	Door Closing	Closing Pressure	Car Call Dwell Time	Hall Car Dwell Time	Nudging
Hydraulic	2.0/2.5 Seconds	2.5/3.0 Seconds	Less Than 30 lbs.	3.0/3.5 Seconds	5.0/6.0 Seconds	20.0/25.0 Seconds

Door Open Time: Measured from the instant the doors begin to open until the doors are fully open. Door opening time should be as fast as possible to provide optimum adjustment of efficient elevator service. Our recommended door times are based on the door operator equipment installed while providing smooth operation and long equipment life.

MAINTENANCE SPECIFICATIONS

Door Closing Time: Measured from the instant the doors begin to close until the doors are fully closed. The ASME A17.1 Code limits door closing time by defining the level of kinetic energy generated during door closing operation. We indicate the closing time which approximates Code requirement based on average door weight.

Door Closing Pressure: Measured with a spring pressure gauge as the doors begin to close. The measured value is the force required to prevent the doors from closing under power. ASME A17.1 Code requires that the force required to stall the closing door be no more than 30 force pounds.

Car Call Dwell Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a car call. It may also be reduced by re-registering a car call after the initial opening of the doors. Minimum time of 3 seconds is required by The Americans with Disabilities Act (A.D.A.).

Long Door Hold Open Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a hall call. Minimum time of 5 seconds is required by The Americans with Disabilities Act (A.D.A.).

Nudging: Measured from the instant the doors reach the fully open position until the door buzzer sounds and the doors begin to close at reduced speed even though the door protective devices are interrupted.

**SUMMIT COUNTY – PREVENTATIVE
MAINTENANCE SPECIFICATIONS**

**EQUIPMENT INVENTORY
SUMMIT COUNTY PARKING DECK FACILITY**

BUILDING NAME	TYPE	PM Schedule		Estimated PM Hours/Month
		Annually	Monthly	
Summit County Parking Deck	Two (2) Hydraulic Two (2) Traction	One (1) Safety and 5 Year Load Test	One (1) Hour/Unit	Four(4) Hours/Month
Total	Four (4) Units		Four (4) Hours	Four (4) Hours/Month

Preventative Maintenance (PM) hours for inspection time only and DO NOT include callbacks, repairs, upgrades or code mandated testing. Estimated PM hours are minimum requirements for this agreement.

EQUIPMENT SUMMARY

Unit No.	1 & 2 - PUBLIC (NORTH)	3 & 4 - PUBLIC (SOUTH)
Type:	Canton Elevator Company State Reg. # 46489 # 46490 Hydraulic Rope – Passenger Submersible Pump	Millar Elevator Company State Reg. # 46108 # 46109 Drum Traction-Passenger
Operation	Duplex Controller – Motion Control Control Model Selective/Collective	Simplex Controller–Motion Control Control Model Selective/Collective
Capacity	2500 lbs.	2500 lbs.
Stops	7 stops/7 front/0 rear	7 stops/7 front/0 rear
Installation Contractor	Millar Elevator Co (Schindler Elevator)	Millar Elevator Co (Schindler Elevator)
Door Type	<- ->	
Door Size	3'6" x 7'0"	3'6" x 7'0"
Door Protection	IR Detector	IR Detector

**SUMMIT COUNTY – PREVENTATIVE
MAINTENANCE SPECIFICATIONS**

EQUIPMENT PERFORMANCE

Unit Type	One Floor Run Up or down (12"-0" floor to floor)	Rated Speed±	Leveling±	Accel/Decel
Traction-350fpm	10.0/10.5 Seconds	3%	¼	3.0 ft/sec ²
Hydraulic-145 fpm	15.0/15.5 Seconds	10%	¼	2.5 ft/sec ²

Floor to Floor Performance Time: Measured from the instant the doors begin to close until doors are 3/4 open (1/2 open for side opening doors) and car is stopped at next successive floor under any loading condition or travel direction.

Elevator Speed: Elevator speed is measured with a tachometer while the elevator makes a full run through the hoistway with no load in the car. Contract speed (to be found on the governor rating plate or the cross head on the car) should be maintained within criteria range indicated on individual performance evaluations under any load condition or travel direction.

Unit Type	Door Opening	Door Closing	Closing Pressure	Car Call Dwell Time	Hall Car Dwell Time	Nudging
Traction	2.0/2.5 Seconds	2.5/3.0 Seconds	Less Than 30 lbs.	3.0/3.5 Seconds	5.0/6.0 Seconds	20.0/25.0 Seconds
Hydraulic						

Door Open Time: Measured from the instant the doors begin to open until the doors are fully open. Door opening time should be as fast as possible to provide optimum adjustment of efficient elevator service. Our recommended door times are based on the door operator equipment installed while providing smooth operation and long equipment life.

SUMMIT COUNTY – PREVENTATIVE MAINTENANCE SPECIFICATIONS

Door Closing Time: Measured from the instant the doors begin to close until the doors are fully closed. The ASME A17.1 Code limits door closing time by defining the level of kinetic energy generated during door closing operation. We indicate the closing time which approximates Code requirement based on average door weight.

Door Closing Pressure: Measured with a spring pressure gauge as the doors begin to close. The measured value is the force required to prevent the doors from closing under power. ASME A17.1 Code requires that the force required to stall the closing door be no more than 30 force pounds.

Car Call Dwell Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a car call. It may also be reduced by re-registering a car call after the initial opening of the doors. Minimum time of 3 seconds is required by The Americans with Disabilities Act (A.D.A.).

Long Door Hold Open Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a hall call. Minimum time of 5 seconds is required by The Americans with Disabilities Act (A.D.A.).

Nudging: Measured from the instant the doors reach the fully open position until the door buzzer sounds and the doors begin to close at reduced speed even though the door protective devices are interrupted.

**SUMMIT COUNTY – PREVENTATIVE
MAINTENANCE SPECIFICATIONS**

**EQUIPMENT INVENTORY
SUMMIT COUNTY SUMMIT CENTER FACILITY**

BUILDING NAME	TYPE	PM Schedule		Estimated PM Visits/Year
		Yearly	Quarterly	
Summit County Summit Center	One (1) Traction - Passenger	Annual Safety or 5 YR Load Test	One (1) Hour/Unit	Four (4) plus Annual Safety or 5 YR Load Test
	One (1) Traction - Freight	Annual Safety or 5 YR Load Test		One (1) visit plus Annual Safety or Load Test

Preventative Maintenance (PM) hours are inspection time only and DO NOT include callbacks, repairs, upgrades or code mandated testing. Estimated PM hours are minimum requirements for this agreement.

EQUIPMENT SUMMARY

Unit No.	1 - PUBLIC	2 - FREIGHT
Type:	Kone, Inc. State Reg. #8109 Geared Overhead - Passenger	Otis Elevator Co. State Reg. # 8110 Geared Overhead Freight
Operation	Motion Control-Simplex Controller-VFMC 1000 Selective/Collective	Simplex Otis Controller Selective/Collective
Capacity	2500 lbs.	6000 lbs.
Stops	4 stops/ 4 front/ 0 rear	4 stops
Installation Contractor	Kone, Inc.	Otis Elevator Co.
Door Type	Double - Bypass	Guillotine
Door Size	4'0" x 7'0"	7'7" x 7'0"
Door Protection	IR Detector	Unknown

SUMMIT COUNTY – PREVENTATIVE MAINTENANCE SPECIFICATIONS

EQUIPMENT PERFORMANCE

Unit Type	One Floor Run Up or down (12"-0" floor to floor)	Rated Speed±	Leveling±	Accel/Decel
Passenger – Traction - 250 fpm	10.0/10.5 Seconds	3%	¼	3.0 ft/sec ²
Freight – Traction 100 fpm	unknown	Unknown	¼	unknown

Floor to Floor Performance Time: Measured from the instant the doors begin to close until doors are 3/4 open (1/2 open for side opening doors) and car is stopped at next successive floor under any loading condition or travel direction.

Elevator Speed: Elevator speed is measured with a tachometer while the elevator makes a full run through the hoistway with no load in the car. Contract speed (to be found on the governor rating plate or the cross head on the car) should be maintained within criteria range indicated on individual performance evaluations under any load condition or travel direction.

Unit Type	Door Opening	Door Closing	Closing Pressure	Car Call Dwell Time	Hall Car Dwell Time	Nudging
Passenger	2.0/2.5 Seconds	2.5/3.0 Seconds	Less Than 30 lbs.	3.0/3.5 Seconds	5.0/6.0 Seconds	20.0/25.0 Seconds
Freight	Manual	Manual	n/a	n/a	n/a	n/a

Door Open Time: Measured from the instant the doors begin to open until the doors are fully open. Door opening time should be as fast as possible to provide optimum adjustment of efficient elevator service. Our recommended door times are based on the door operator equipment installed while providing smooth operation and long equipment life.

SUMMIT COUNTY – PREVENTATIVE MAINTENANCE SPECIFICATIONS

Door Closing Time: Measured from the instant the doors begin to close until the doors are fully closed. The ASME A17.1 Code limits door closing time by defining the level of kinetic energy generated during door closing operation. We indicate the closing time which approximates Code requirement based on average door weight.

Door Closing Pressure: Measured with a spring pressure gauge as the doors begin to close. The measured value is the force required to prevent the doors from closing under power. ASME A17.1 Code requires that the force required to stall the closing door be no more than 30 force pounds.

Car Call Dwell Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a car call. It may also be reduced by re-registering a car call after the initial opening of the doors. Minimum time of 3 seconds is required by The Americans with Disabilities Act (A.D.A.).

Long Door Hold Open Time: Measured from the instant the doors are fully open until the doors begin to close when the car stops in response to a hall call. Minimum time of 5 seconds is required by The Americans with Disabilities Act (A.D.A.).

Nudging: Measured from the instant the doors reach the fully open position until the door buzzer sounds and the doors begin to close at reduced speed even though the door protective devices are interrupted.