#### **SECTION 00 91 13.1 ADDENDUM #1**

#### 1.1 PROJECT INFORMATION

- A. 9<sup>th</sup> & Main Garage Elevator Refurbishment Project
- B. Owner: Capital City Development Corporation
- C. Date of Addendum: February 19, 2020

#### 1.2 NOTICE TO BIDDERS

- A. This addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and any previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated in the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.
- C. The date for receipt of bids is unchanged by this Addendum, at same time and location.
  - 1. Bid Date: February 26, 2020 by 3:00 p.m. local time

# 1.3 REVISIONS TO DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

A. Document 00 01 10 TABLE OF CONTENTS: Revised to insert line 00 91 13.1 ADDENDUM #1.

#### 1.4 REVISIONS TO DRAWING SHEETS

- A. SHEET E0.01 ELECTRICAL LEGENDS, NOTES & ONE-LINE
  - 1. ADDED available short circuit calculations for elevator equipment to one-line. ADDED keynote.

SEE ATTACHED REVISED SHEET E0.01

#### 1.5 REVISIONS TO DIVISION 14 TECHNICAL SPECIFICATIONS

#### A. DIVISION 14 24 00 - CONVEYING EQUIPMENT

- 1. Section 1.13.8.a REVISE to read "Retain existing car roller guides, provide new inserts."
- 2. Section 2.01.H. REVISE "Stops" to read "5"
- 3. Section 2.05 Hoistway Equipment REMOVE Item L.

#### 1.6 COMPARABLE OR EQUAL PRODUCT REQUEST

1. No comparable or equal products have been approved. Bid as per plans and specifications.

#### 1.7 PRE-BID MEETING QUESTIONS

- A. The following questions have been asked during the question period. The following answers are provided by Architect to assist Bidders.
  - QUESTION: The spec call for the doors the be painted, 5wl and SS# 4, also the cab has different finishes. (Please pick one.)
     ANSWER: Refer to Division 14 24 00 Section 2.08 Car Enclosures
  - 2. **QUESTION:** The plans and spec do not tell the travel or if it's a single inground jack or twin post.

**ANSWER:** Refer to Division 14 24 00, Section 3.01 – Site Conditions Inspection

- QUESTION: Does the cab get a new SS# 4 ceiling?
   ANSWER: Refer to Division 14 24 00 Section 2.08 Car Enclosures.
- 4. **QUESTION:** New pit ladder or add on top the existing, the spec has both. **ANSWER:** Refer to Division 14 24 00 Section 1.02.13.
- 5. **QUESTION:** How many handrails are there? **ANSWER:** Refer to Division 14 24 00, Section 2.01.H.
- 6. **QUESTION:** New power units, submersible or dry? **ANSWER:** Refer to Division 14 24 00 Section 2.04 Machine Room Equipment

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END OF SECTION 00 91 13.1



#### 9<sup>th</sup> & Main Garage – Elevator Refurbishment Project

#### **Pre-Bid Conference Agenda**

# February 11, 2020 at 11:00 am CCDC office and Site Tour

- 1. Welcome and Introductions
- 2. Key Dates
  - Final day for Questions: 5:00 p.m. February 13, 2020 5pm

Questions must be in writing to Kathy <a href="mailto:kwanner@ccdcboise.com">kwanner@ccdcboise.com</a>, copy to: <a href="mailto:medmond@ccdcboise.com">medmond@ccdcboise.com</a>

- Objections to Specifications / Bidding process: 5:00 p.m. February 19, 2020
- Due Date: February 26, 2020 3:00 p.m.
- 3. Submittal Requirements
  - 00 41 13 Bid Form
  - 00 45 46 Contractor's Affidavit Concerning Taxes
  - Bid security required (5%)

Valid Public Works License is required

- 4. Scope of Work Review of Plans and Specifications
- 5. Questions
- 6. Site Tour



9th & Main Garage – Elevator Refurbishment Project Pre-Bid Meeting February 11, 2020 at 11:00 am CCDC Office

# Sign-In Sheet

Email Address	16 PNWelevators. Com	olube (2) be al corporation. com	KNEWNER @ccdc boise, com	Estiman Offerne El Methon	208-577-5541 diane, rawson aschindler con	208-941-0751 domin.rvsh@ 5thirdle, Com	medmond eccdc boise. com			
	16en 0	gabe	KWEN	Scalina	diane.	dom's.	medmo			
Telephone Number	208-194-9100	209.985.3489	708-384-42p4	Jos. 860. 956 3	208-577-5541	208-941-0759	20%- 384- 4264			
Company	Northwest Elevator +Con	Deal Corp	CCDC	Humsel	Sohindler	Sthing 16	CCOC			
Name	Kennerl 4 Doolay	Gabe Bear	Latu Manner	Grish Coloman	Diane Rawsan	Domon Rish	Matt Edmond			

UU

GROUND BAR

RANSFORMER

THERMOSTAT

CURRENT TRANSFORMER

GENERATOR ANNUNCIATOR PANEL

ADING INDICATES EMERGENCY SYSTEM

XT INDICATES PANEL AND CIRCUIT DESIGNATION

MAIN SWITCHBOARD/DISTRIBUTION CENTER

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A A	AMPERES	MCP	MOTOR CIRCUIT PROTECTOR
AC	ABOVE COUNTER, MOUNT HORIZONTALLY TO CENTERLINE OF DEVICE, +6" ABOVE COUNTER OR BACK SPLASH	MEC	SEE MECHANICAL EQUIPMENT SCHEDULE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
ANN	ANNUNCIATOR	MTS	MANUAL TRANSFER SWITCH
ARF	ABOVE RAISED FLOOR	NC	NORMALLY CLOSED
ASSD	AIR SAMPLING SMOKE DETECTION	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHT LIGHT
BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
С	CONDUIT	NTS	NOT TO SCALE
CATV	CABLE TELEVISION	ос	ON CENTER
СВ	CIRCUIT BREAKER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CCTV	CLOSED CIRCUIT TELEVISION	OFOI	OWNER FURNISHED, OWNER INSTALLED
(E)	EXISTING	OSWF	ON SITE WORK FORCE
EM	EMERGENCY	РВ	PULL BOX
EMDC	EMERGENCY MAIN DISTRIBUTION CENTER	SB	STAND-BY
EP	EXPLOSION PROOF	SDC	SUB-DISTRIBUTION CENTER
EPO	EMERGENCY POWER OFF	TP	TAMPER PROOF
EVO	EMERGENCY VENTILATION ON/OFF	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
EWC	ELECTRIC WATER COOLER	TYP	TYPICAL
FA	FIRE ALARM	UF	UNDER FLOOR
G	GROUND	UG	UNDER GROUND
GCP	GENERATOR CONTROL PANEL	UON	UNLESS OTHERWISE NOTED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
HOA	HAND OFF AUTOMATIC	V	VOLTS
IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
MAX	MAXIMUM	W/	WITH
MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
MCC	MOTOR CONTROL CENTER	WP	WEATHER PROOF
MDC	MAIN DISTRIBUTION CENTER	XFMR	TRANSFORMER

	REFERENCE SY (Not all symbols listed below		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	KEY NOTE REFERENCE	1	KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE
LPA-#	TYPICAL CIRCUIT NUMBER	E	EXISTING TO REMAIN
TG# (	TYPICAL LUMINAIRE TYPE	R	EXISTING TO BE REMOVED
	TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)	<u>RL</u>	EXISTING TO BE RELOCATED
UH	MECHANICAL EQUIPMENT REFERENCE	<u> </u>	EXISTING TO REMAIN - REPLACE DEVICE
LC1	LIGHTING CONTROL / EQUIPMENT REFERENCE	<u>k</u> R	EXISTING TO BE REMOVED AND REPLACED

	ONE-LINE DIAC (Not all symbols listed below		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DISCONNECT SWITCH	А	PANELBOARD "A"
<b>-</b>	DISCONNECT SWITCH, FUSED	PM	EM=ENERGY METER, PM=POWER METER, CM=CIRCUIT MONITOR
_^_	CIRCUIT BREAKER	— VS —	VOLTMETER TEST SWITCH
	FUSE	— AS —	AMMETER TEST SWITCH
÷	GROUND	Ø	VOLTMETER
T ##	STEP DOWN TRANSFORMER, ## INDICATES KVA	A	AMMETER
TK ##	K-RATED STEP DOWN TRANSFORMER ## INDICATES KVA. # INDICATES K RATING	XXX	SEE FEEDER/MEC/TRANSFORMER SCHEDULES FOR FEEDER SIZE
<del>-</del>	CURRENT TRANSFORMER	G	ENGINE GENERATOR
-3⊱	POTENTIAL TRANSFORMER		CONTACTOR/RELAY/CAPACITOR (AS NOTED)
₹ OR	SERVICE ENTRANCE TRANSFORMER	.l	TRANSFER SWITCH - ATS=AUTOMATIC, MTS=MANUAL
M	METER	GFI	GROUND FAULT INTERRUPTER
	EQUIPMENT ENCLOSURE	SPD	SURGE PROTECTIVE DEVICE
⟨■	SERVICE WEATHERHEAD	§T)	SHUNT TRIP
-X ISCA	SHORT CIRCUIT CURRENT AVAILABLE	<b>&gt;&gt;</b>	TERMINATIONS LB=LOAD BREAK, NLB=NO LOAD BREAK
<b>⟨</b> K⟩ a	KIRK KEY INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP	<b>≪</b> »	DRAW-OUT DEVICE
<b>⟨</b> E⟩ a	ELECTRICAL INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP	<i>→</i> ≻	PLUG-IN DEVICE
M	MECHANICAL INTERLOCK	EO	ELECTRICALLY OPERATED

C. D. E. F.	COORD COORD CONTRO THE SAI FEEDEF COORD MOTOR	FO WORK, VERIFY EXACT LOCATION INATE AND PROVIDE ALL FIELD COI INATE 120V POWER CONNECTIONS OL CIRCUIT DOES NOT AFFECT OPE ME BRANCH CIRCUIT AS DAMPERS RS, BREAKERS, DISCONNECTS, AND INATE LOCATION OF VFD(S) AND W (S).	NNECTIC TO DAM ERATION ASSOCIA FUSING ORKING	ONS AS R IPERS AN OF OTH ATED WI APPLIES SPACE (	EQUIRED. ND OTHER ER EQUIPN TH A DIFFE S TO FIELD CLEARANC	CONTROL CIRO MENT. FOR EXA RENT AIR HAN I-INSTALLED AN ES. IF INSTALLI	MPLE, DO NOT DLING UNIT. ND/OR FACTOR' ED REMOTE FR	CONNECT A DA 7-INSTALLED EC OM EQUIPMEN	AMPER ASS QUIPMENT. T, PROVIDE	OCIATED	WITH O	NE AIR HAND	DLING U	
G.	WHERE	MULTIPLE MOTORS ARE SERVED E	BY A SING	GLE VFD	, COORDIN	ATE FIELD-WIR	ING REQUIREM	ENTS WITH EQ	UIPMENT V	ENDOR.				
1. INDO		S: LINE VOLTAGE PROVIDED VIA OUT STEM COMPONENT: AC-X	DOOR U	INIT. MAT	TCHED SYS	STEM COMPON	ENT:CU-X							
									Feeders	Τ.		Protection		_
Key	#		HP	FLA	Load	Eq Load (VA)		Wire		Conduit			Fuse	Notes
4C	1	AC SPLIT SYSTEM - INDOOR	0	0 A	46 VA	46 VA	208V 1ph	2#10	#10G	3/4"	20A	30A		1
4C	2	AC SPLIT SYSTEM - INDOOR	0	0 A	64 VA	64 VA	208V 1ph	2#10	#10G	3/4"	20A	30A		1
CU	1	CONDENSING UNIT - OUTDOOR	0	18 A	0 VA	3806 VA	208V 1ph	2#10	#10G	3/4"	20A	30A		2
CU	2	CONDENSING UNIT - OUTDOOR	0	17 A	0 VA	3536 VA	208V 1ph	2#10	#10G	3/4"	20A	30A		2
EF	1	EXHAUST FAN	0	0 A	103 VA	103 VA	120V 1ph	2#12	#12G	3/4"	20 A	S		
ΞM	1	ELEVATOR MOTOR	40	0 A	0 VA	43232 VA	480V 3ph	3#4	#8G	1-1/4"	100 A	100 A	90 A	
ΕM			_	<b>-</b>			· · · · · · · · · · · · · · · · · · ·				-			
_171	2	ELEVATOR MOTOR	40	0 A	0 VA	43232 VA	480V 3ph	3#4	#8G	1-1/4"	100 A	100 A	90 A	
EUH	1	ELEVATOR MOTOR ELECTRIC UNIT HEATER	0	0 A 0 A	0 VA 2000 VA	43232 VA 2000 VA	480V 3ph 277V 1ph	2#12	#8G #12G	1-1/4" 3/4"	100 A 20 A	100 A S	90 A	
	2 1 2		0 0										90 A	

MECHANICAL EQUIPMENT SCHEDULE

PRIOR TO WORK, VERIFY ELECTRICAL REQUIREMENTS (VOLTAGE, AMPERAGE, RECOMMENDED OCPD, CONDUCTORS, AND DISCONNECT) FOR EACH PIECE OF

GENERAL NOTES:

	it Notes				Voltage: Phase: Wire:		Wye		A.I.C. Rating: 10kAIC Mains Type: MCB Bus Rating: 225 A MCB Rating: 225 A								
		w 2-pole breaker to match e	xisting at c	apacity ii	ndicat	ed											
te	Circ	Load	Type	•	Po		A	ı	В		С	Po	Trip	Type	Load	Circ	Note
	1	Telephone Board		20 A	1	0 VA	0 VA					1	20 A		L- S Elev corridor	2	
	3	Fire Alarm Panel		20 A	1			0 VA	0 VA			1	20 A		R- Mech Rm & S Stair	4	
	5	FRESCO Ltg		20 A	1					0 VA	0 VA	1	20 A		South POF	6	
	7	Fresh Air North		20 A	1	0 VA	0 VA					1	20 A		Fire Pump comp & alarm	8	
	9	Heater Employee RR		20 A	1			0 VA	0 VA			1	20 A		EF grease pit	10	
	11	Water Heater RR		20 A	1					0 VA	0 VA	1	20 A		N Elev car lights,blade	12	
	13	EF Storage & Trash		20 A	1	0 VA	0 VA					1	20 A		R-North Stair	14	
	15	R-Storage Rm		20 A	1			0 VA	0 VA			1	20 A		North POF	16	
	17	R-Storage Rm		20 A	1					0 VA	0 VA	1	20 A		R-each floor	18	
	19	S Entry Sign & Counter		20 A	1	0 VA	0 VA					1	20 A		EF RR - S Gate Entry	20	
	21	Sign		20 A	1			0 VA	1800 VA			2	20 A	М	SPLIT SYSTEM	22	1
	23	N Entry Sign & Counter		20 A	1					0 VA	1800 VA		20 A	IVI	SOUTH ELEVATOR	24	
	25	Parking Gate/Grnd S Exit		20 A	1	0 VA	1926 VA						00.4		SPLIT SYSTEM	26	
	27	Warning Signs		20 A	1			0 VA	1926 VA			2	20 A	М	NORTH ELEVATOR	28	1
	29	Warning Signs		20 A	1					0 VA	0 VA	1	20 A		R-Attendant	30	
	31	Spare in TDE		20 A	1	0 VA	0 VA					1	20 A		2nd floor POF	32	
	33	Entry Lane		20 A	1			0 VA	0 VA			1	20 A		2nd floor CC	34	
	35				_					0 VA	0 VA					36	
	37	A/C Att Office heat pump		30 A	2	0 VA	0 VA					3	60 A		Panel A3	38	
	39	Bike Cage exit		20 A	1			0 VA	0 VA							40	
	41	Bike Cage outlet		20 A	1			<b>4</b> 111		0 VA	0 VA	1	20 A		Spare	42	
	43				-	0 VA	0 VA									44	
	45	S Stairwell Disconnect		60 A	3			0 VA	0 VA			3	20 A		N Stairs Disconnect	46	
	47							• • • • • • • • • • • • • • • • • • • •	<b>U</b> 171	0 VA	0 VA	1			60A Multi	48	
	49					0 VA	0 VA				0 171	1	20 A		EF Storage	50	
	51	Booth Panel		20 A	2	0 171	0 171	0 VA	0 VA			1	20 A		Water Heater Storage	52	
	53	Car Coming Sign		20 A	1			0 1/1	0 7/1	0 VA	0 VA	1	20 A		Bike Cage Opener	54	
	55	North Exit		20 A	1	0 VA	0 VA			UVA	UVA	1	20 A		Bike Cage	56	
	57	Air Compressor		2071	'	0 7/1	0 7/1	0 VA	0 VA			1	20 A		Elec Rm outlet	58	
		Maint Shop		20 A	2			3 1/1	0 1/	0 VA	0 VA	1	20 A	<u></u>	MCC Control Panel	60	
		Γ		Total L	Uay.	102	⊥ 6 VA	370	6 VA		1	'	207		14700 Control Faller		
				Total A			6 A		A	1800 VA 15 A							
			Ph	ase Bala	-		% A-B		% B-C		% C-A						
- d	Туре		FII	iase Daio	ance.		ted Load		d Factor		nd Load				Panel Totals		
ıu		α					VA		0%		VA			Pow	er Factor: 1		
	Lighting  Receptacle				VA VA		0%		VA VA			row	ו מטנטו. ו				
	Motor	lauic					2 VA		77%		4 VA	Total Connected Load: 7452 VA					
	Continuous				Z VA VA		0%		VA VA				d Current: 21 A				
	Genera						VA VA		10%		VA VA		1 Otal (		u Junent. ZTA		
						VA VA		10%		VA VA		-	otal Dom	and Load: 8404 VA			
E Existing							VA VA		10%		VA VA				d Current: 23 A		
													100	ai Deilian	u Guireiit. 23 A		
)	Other			U	VA	0.00%		0 VA									

# POWER PLAN NOTES:

- 1. MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REQUIRING ELECTRICAL CONNECTION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ALL MECHANICAL AND OTHER EQUIPMENT INCLUDED IN THIS PROJECT.
- 2. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 3. PROVIDE FUSES SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- 4. DISCONNECT SWITCH LOCATIONS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3", MAXIMUM, TO TOP OF CABINET. MAINTAIN NEC WORK SPACE REQUIREMENTS.
- 5. RECEPTACLES INDICATED TO BE MOUNTED ABOVE COUNTER ARE TO BE MOUNTED HORIZONTALLY 6" ABOVE COUNTER UNLESS OTHERWISE NOTED.
- 6. COORDINATE AND VERIFY EXACT MOUNTING LOCATIONS OF WALL AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS, AND ANY FURNITURE OR SPECIALTY EQUIPMENT SUPPLIER DRAWINGS PRIOR TO ROUGH-IN.
- 7. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V CIRCUIT.
- 8. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. WHERE CIRCUITS ARE COMBINED WITHIN A SINGLE CONDUIT, PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
- 9. GFCI RECEPTACLES ARE NOT GENERALLY SHOWN ON DRAWINGS. ALL RECEPTACLE OUTLETS LOCATED IN TOILET ROOMS, SHOWER ROOMS, LOCKER ROOMS. GARAGES, SERVICE BAYS, ROOFTOPS, OUTDOOR LOCATIONS, MECHANICAL ROOMS, WITHIN 6 FEET OF A SINK, AT ELECTRIC WATER COOLERS, OR OTHER WET LOCATIONS SHALL BE PROVIDED WITH GFCI PROTECTION PER NEC ARTICLE 210 AND NEC SECTION 422.5. PROVIDE GFCI RECEPTACLES IN ELEVATOR PITS, HOISTWAYS, MACHINE ROOMS, CONTROL SPACES, AND CONTROL ROOMS PER NEC SECTION 620.85. ADDITIONAL GFCI PROTECTION TO BE PROVIDED AS INDICATED. WHERE GFCI DEVICES ARE REQUIRED AND/OR SHOWN BUT ARE NOT ACCESSIBLE WHEN EQUIPMENT IS INSTALLED, I.E. VENDING MACHINES, ETC., PROVIDE BLANK FACE GFCI DEVICE AND COVERPLATE AHEAD OF INACCESSIBLE RECEPTACLES. MOUNT ADJACENT TO EQUIPMENT AT SWITCH HEIGHT UNLESS OTHERWISE SHOWN.

# ONE-LINE DIAGRAM NOTES:

- 1. PANELBOARDS INDICATED ON ONE LINE DIAGRAMS DO NOT SHOW ALL BRANCH CIRCUITS. REFER TO PANELBOARD SCHEDULE(S).
- 2. EXISTING ONE-LINE DIAGRAM TAKEN FROM OWNER FURNISHED DRAWINGS. EXISTING INFORMATION SHOWN OTHER THAN LOCATIONS IMPACTED BY NEW WORK HAS NOT BEEN VERIFIED.

# WIDTH AS REQUIRED -EXHAUST FAN #1 FED FROM H1A 2 1/2" 480V 3Ø HP UTILIZATION EQUIPMENT NAMEPLATE DETAIL 1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION. 2. REWORD NAMEPLATE FOR FIELD CONDITIONS. 3. HP SHALL INDICATE HORSEPOWER.

PANEL 'A' LOAD SUMMARY

EXISTING PEAK DEMAND MSB (Jan 2019-2020)

NEC CORRECTED PEAK DEMAND LOAD

225 A

72.54 A

90.679 A

225 A

72.17 A

90.211 A

100.32 A

800 A

72.17 A

90.21 A 10.11 A 100.32 A

3PH UTILITY

x 125%

23.33 A 114.01 A

x 125%

ISCA=15,464

/ 100/3 / 200/3

MAIN SWITCHBOARD 'MSB' 277/480V, 800A, 3PH, 4W

ELEVATOR ELEVATOR SOUTH NORTH

ISCA=8,950 ———

ISCA= E5

277/480V, 200A, 3PH, 4W

PANEL 'A1' & 'A2' CAPACITY

NEW TOTAL LOAD - PANEL A

PANEL HA LOAD SUMMARY

Less Elevator 1 and 2 NEC DEMAND FACTOR

NEW LOAD ADDED

EXISTING PEAK DEMAND MSB (Jan 2019-2020)

NEC CORRECTED PEAK DEMAND LOAD

PANEL MSB LOAD SUMMARY

PANEL 'HA' RATING

Less Elevator 1 and 2 NEC DEMAND FACTOR

NEW LOAD ADDED

SWITCHBOARD 'MSB' RATING

NEC DEMAND FACTOR

NEW LOAD ADDED NEW TOTAL LOAD - MSB

NEW TOTAL LOAD - PANEL HA

EXISTING PEAK DEMAND (Jan 2019 - Jan 2020)

NEC CORRECTED PEAK DEMAND LOAD

# **GENERAL NOTES:**

- 1. FOR REMODELING, WORK INCLUDED IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
- 2. PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATED OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
- 3. INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED. PAINT EXPOSED CONDUIT TO MATCH EXISTING FINISHES WITHIN THE SURROUNDING AREA.
- 4. DO NOT ROUTE CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS SPECIFICALLY NOTED OTHERWISE AND WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
- 5. FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
- 6. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN AND ORDERING MATERIALS OR EQUIPMENT.
- 7. A DETAILED WRITTEN METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY OR AN OUTAGE AFFECTS THE SAFETY OF OCCUPANTS, TELEPHONE/DATA/FIRE ALARM EQUIPMENT OR COMPONENTS OF ANY SYSTEM WHICH SUPPORTS THIS EQUIPMENT OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY. SEE SPECIFICATIONS
- 8. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.
- 9. PROVIDE SEPARATE INSULATED GROUNDING CONDUCTOR IN ALL FEEDER, HOMERUN AND BRANCH CIRCUITS.

# **DEMOLITION NOTES:**

FOR ADDITIONAL INFORMATION.

- 1. UNLESS NOTED OTHERWISE, BOLD ITEMS INDICATE EQUIPMENT, DEVICES, ETC. TO BE REMOVED. SEE SPECIFICATION SECTION 260500 FOR REMODEL/DEMOLITION DETAILED REQUIREMENTS.
  - DEMOLITION DRAWINGS MAY NOT SHOW EVERY ITEM TO BE DEMOLISHED. CONTRACTOR SHALL VISIT SITE TO DETERMINE AND COORDINATE THE EXACT EXTENT OF DEMOLITION TO FACILITATE ALL WORK INDICATED BY THE CONTRACT DOCUMENTS PRIOR TO QUOTATION. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENTS. REWORK EXISTING TERMINATIONS, CONNECTIONS, CONDUIT, WIRING, ETC. TO ACCEPT NEW WORK. MAINTAIN CIRCUIT CONTINUITY TO EXISTING CIRCUITS AND DEVICES TO REMAIN OR REMODEL/DEMOLITION DETAILED REQUIREMENTS TO BE RELOCATED. PRIOR TO COMMENCEMENT OF ANY DEMO WORK, CONFIRM EXISTING CONDITIONS

AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.

- 3. ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ALL WIRING AND EXPOSED CONDUIT AND CONDUIT SUPPORTS BACK TO POINT OF ORIGIN OR NEXT DEVICE TO REMAIN. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER. UNLESS NOTED OTHERWISE. AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT.
- 4. WHERE EXISTING CONDUITS ARE SHOWN TO BE REMOVED AND HAVE BEEN ROUTED IN CONCRETE FLOOR SLABS, CONCRETE WALLS OR CONCRETE CEILINGS, THEY SHALL BE CUT BACK FLUSH WITH CONCRETE. FILL WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH FLUSH WITH CONCRETE SURFACE AFTER CONDUCTORS HAVE BEEN REMOVED.
- . REUSE EXISTING CONDUIT WHERE CURRENT NEC AND LOCAL CODE REQUIREMENTS ARE MAINTAINED. PROVIDE NEW CONDUIT AND WIRE FOR NEW INSTALLATIONS AND EXTENSION OF EXISTING INSTALLATIONS. REUSE EXISTING CONDUIT IN PLACE, DO NOT REINSTALL EXISTING CONDUIT. PROVIDE LABELING PER SPECIFICATIONS FOR REUSED CONDUIT.
- 6. RELOCATED EQUIPMENT AND DEVICES ARE TO BE CLEANED OF ALL FOREIGN MATERIAL. REPLACE EQUIPMENT OR DEVICES WHICH ARE DEFECTIVE OR DAMAGED DURING RELOCATION.
- WHERE EXISTING DEVICES, SWITCHES, MOTOR CONNECTIONS, ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, WALLS SHALL BE PATCHED TO MATCH ORIGINAL FINISH. BLANK COVERPLATES OVER EXISTING BOXES ARE NOT ACCEPTABLE, UNLESS NOTED OTHERWISE.



**KEYNOTES** 

PROVIDE LABELING WITH UPDATED SHORT CIRCUIT CALCULATION AND DATE OF CALCULATION FOR ELEVATOR

EQUIPMENT PER NEC 620.51(D).



Project:

9TH AND MAIN GARAGE -**ELEVATOR REFURBISH** 

848 W. Main St Boise, ID 83702

Sheet: ELECTRICAL LEGENDS, NOTES & ONE-LINE

> Revisions: / 1 Revision 1

Project No: Drawn By: Checked By

Date: Sheet No:

2020-006

1 / 24 / 20

Partial One-Line Diagram

ISCA=16,790

SYMBOL

SINGLE RECEPTACLE

DUPLEX RECEPTACLE

SPECIAL RECEPTACLE

MOTOR

JUNCTION BOX, FLOOR OR CEILING MOUNTED

JUNCTION BOX, WALL MOUNTED

DISCONNECT SWITCH (NON-FUSED)

VARIABLE SPEED DRIVE WITH DISCONNECT

ELECTRICAL PANELBOARD, CONTROL PANEL, OR OTHER CABINET AS NOTED

DISCONNECT SWITCH (FUSED)

UTILITY METER