

STATE HALL ELEVATOR REFURBISHMENT & RENOVATION - PHASE 1 ELEVATOR MODERNIZATION 5143 Cass Ave

Detroit, MI 48202 Wayne State Project No.: 16-327661 NORR Project No.: JCDT18-0229

PROJECT DIRECTORY

WAYNE STATE PROJECT MANAGER: KIDEST ALBAARI 5454 CASS AVENUE DETROIT, MI 48202 313-577-3038

ARCHITECT **BRUCE LYON** NORR LLC 150 W. JEFFERSON AVENUE SUITE 1300 DETROIT, MI 48226 (313) 324-3115

MECHANICAL / ELECTRICAL ENGINEER: BRENDA PESMARK / MELISSA GOOD NORR 150 W. JEFFERSON AVENUE SUITE 1300 DETROIT, MI 48226 (313) 324-3145



PROJECT NOTES

- PROJECT SCALES ARE PROVIDED FOR REFERENCE ONLY. INCASE OF A DIMENSIONAL 1 QUESTION OR DISCREPANCY SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE CONSTRUCTION COORDINATOR
- 2. ALL WORK IS TO BE DONE IN ACCORDANCE WITH ALL LOCAL. STATE AND NATIONAL CODES HAVING JURISDICTION.
- COORDINATE WITH WAYNE STATE UNIVERSITY PROJECT MANAGER AND FACILITY ENGINEERS FOR CONSTRUCTION ROUTES LOCATION OF DUMPSTER AND PROTECTION OF EXISTING OCCUPANTS AND MATERIAL FINISHES
- 4. AREA OUTSIDE OF PROJECT SCOPE ARE TO REMAIN OCCUPIED DURING RENOVATION. PROTECT ELECTRICAL POWER, LIGHTING AND DATA CABLES TO MAINTAIN FUNCTIONAL USE.
- 5. PROVIDE A SCHEDULE FOR SHUTDOWN OF MECHANICAL AND ELECTRICAL SYSTEMS 6. PROVIDE PROTECTION ALONG ENTIRE ROUT FOR REMOVAL OF DEBRIS INCLUDING CORRIDOR AND ALL ELEVATOR LOBBIES
- 7. ELEVATORS TO BE PROTECTED & "NOT IN SERVICE" SIGNAGE INSTALLED DURING PROJECT LENGTH.

SCOPE OF WORK

1. EXISTING STATE HALL ELEVATORS & HOISTWAY TO BE MODERNIZED, WITH EXISTING CONTROLLERS, DEFLECTOR SHEAVES, TAIL END SHEAVES, CAB DOORS, DOOR DETECTORS, OPERATORS, FANS, CABLES, EMERGENCY LIGHTS, AND ROLLER GUIDES BEING REPLACED IN THEIR ENTIRETY. MACHINE ROOM AND HOISTWAY (BASEMENT THROUGH FOURTH FLOOR) WILL BE UPGRADED TO MEET CURRENT ELEVATOR CODES. EXISTING SMOKE EXHAUST LOUVER WILL BE ENLARGED AND CONNECTED TO AN AUTOMATIC SMOKE/FIRE DAMPER 2. FIRE SUPPRESSION SPRINKLER HEADS WILL BE ADDED TO THE TOP OF SHAFT & MACHINE ROOM. A SHUNT TRIP IS TO BE INSTALLED AT THE ELEVATOR EQUIPMENT ROOM. 3. EXISTING ELECTRICAL SERVICE WILL BE UPGRADED TO MEET CURRENT CODE REQUIREMENTS .

ALTERNATE #1: PAINT EXIST CORRIDOR ELEVATORS DOORS & FRAMES. PAINT TBD

CODES / STANDARDS

AUTHORITY HAVING JURISDICTIC CITY OF DETROIT, MI	ON:				
MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (LARA)	BUREAU OF CONSTRUCTION CODES	 (MRCEB) MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS (MBC) MICHIGAN BUILDING CODE - 2015 (MMC) MICHIGAN MECHANICAL CODE - 2015 (MPC) MICHIGAN PLUMBING CODE - 2015 (MEC) NATIONAL ELECTRICAL CODE - 2014 MICHIGAN ELECTRICAL CODE - 2014 (MUEC) MICHIGAN ENERGY CODE - 2015 			
	BUREAU OF FIRE SERVICES	NFPA 101 LIFE SAFETY CODE - 2012			
ASME A17.1 -2004 - SAFETY CODE FOR ELEVATORS AND ESCALATORS					
ASME A17.1 -2004 - SAFETY COD	E FOR ELEVATORS AND ESCALAT	ORS			
ICC/ANSI A117.1-2009, ACCESSIB	LE AND USABLE BUILDING AND FA	CILITIES			
DEPARTMENT OF JUSTICE, FEDE AND FACILITIES (28 CER PART-3)	ERAL ADA ACCESSIBILITY GUIDELI	NES FOR BUILDING			

PROJECT CODE SUMMARY

BUILDING CLAS	SIFICATION:			
OCCUPANCY CLASSI CHAPTERS 3, 4, 5, AN	FICATION AND CO	ONSTRUCTION	TYPES	PER MBC
BASIC OCCUPANCY GROUP(S): [PER MBC CHAPTER 3]				
O GROUP A-1 O GROUP E O GROUP H-1 O GROUP H-4 O GROUP H-2 O GROUP M O GROUP R-3 O GROUP S-2	O GROUP O GROUP O GROUP O GROUP O GROUP O GROUP O GROUP O GROUP O GROUP	F-1 H-2 H-5 I-3 R-1 R-4 U	OGI OGI OGI OGI OGI OGI	Roup Roup B Roup F-2 Roup H-3 Roup I-1 Roup I-4 Roup R-2 Roup S-1
MIXED USE AND	OCCUPANCY :	[PER MBC SE	CTION	508]
 ACCESSORY OCG [Accessory Oc OINCIDENTAL ACC ONONSEPARATED O SEPARATED OCC 	CUPANCIES cupancies <10% ESSORY CUPANCIES	[MBC 508.2] 6 of Story] [MBC 509] [MBC 508.3] [MBC 508.4]		
*REFER TO FIRE REQUIREMENTS	AND LIFE SAFE	ETY PLANS F	OR	
TYPE(S) OF CON [PER MBC CHAPTER	STRUCTION : ? 6]	TYPE I: C TYPE II: C TYPE III: C TYPE IV: C	A A A A HT	●B OB OB

SPECIAL DETAILED REQUIREM **OHIGH-RISE BUILDING** O ATRIUM **O OPEN PARKING** O GROUP I-2:

- SMOKE COMPARTMENTS - REFUGE AREA **OHAZARDOUS MATERIALS:** - CONTROL OMEZZANINE



ARREN AVE

LOCATION MAP

ARCHI

> Sheet Numb

G0-00 G0-01 G0-02 A1-01

ELECTE

> Shee Numb

E0-01 E0-02 ED-01 E1-01

Shee Numb

FP1-01 M1-01

TYPE III : OA	OB
	<u>_</u>
TYPEV: OA	OB
<u>IENTS :</u>	
[PER MBC SECTION	403]
[PER MBC SECTION	404]
[PER MBC SECTION	406.5]
[PER MBC SECTION	407]

[PER MBC SECTION 414] [PER MBC SECTION 505]

[PER MBC 10 DOORS SH)10.1.2.1] IALL SWING IN	THE DIRECTION OF EGRESS TRAVEL		
WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE PERS				
CORRIDOF [PER MBC 10 CORRIDOF	₹S:)20.2] ₹ WIDTH SHALI	L BE 44 INCHES MINIMUM.		
С	OMMON PATH OF	EGRESS TRAVEL (MBC 1006.2.1)		
OCCUPANCY	SPRINKLERED	MAX. DISTANCE		
В	YES	100' - 0"		
В	123			
	DEAD	ENDS (MBC 1020.4 EX 2)		
OCCUPANCY	YES	50' - 0"		
OCCUPANCY B				
OCCUPANCY B MIN. N	UMBER OF EXITS	FOR OCCUPANT LOAD (MBC 1006.3.1)		
OCCUPANCY B MIN. N OCCUPAN	UMBER OF EXITS	FOR OCCUPANT LOAD (MBC 1006.3.1) MIN. # OF EXITS PER STORY		
OCCUPANCY B MIN. N OCCUPAN 1-500	UMBER OF EXITS	FOR OCCUPANT LOAD (MBC 1006.3.1) MIN. # OF EXITS PER STORY 2 2		
	DEAD SPRINKLERED YES	ENDS (MBC 1020.4 EX 2) MAX. DISTANCE 50' - 0"		
DCCUPANCY B MIN. N OCCUPAN	UMBER OF EXITS	FOR OCCUPANT LOAD (MBC 1006.3.1) MIN. # OF EXITS PER STORY		
OCCUPANCY B Min. N	UMBER OF EXITS	FOR OCCUPANT LOAD (MBC 1006.3.1)		

MINIMUM FIRE-RESISTANCE REQUIREMENTS: FIRE-RESISTIVE RATING REQUIREMENTS FOR BUILDING ELEMENTS

-<u>SITE LOCATION</u> STATE HALL

5143 CASS AVENUE

DETROIT, MI 48202

[PER MBC TABLE 601] TYPE OF CONSTRUCTION: PRIMARY STRUCTURAL FRAME 2 HOURS DURS

BEARING WALLS (EXT) :	2 HOURS
BEARING WALLS (INTR) :	2 HOURS
NON-BRG WALLS AND PARTITIONS (EXT)	
PER MBC TABLE 602:	0 HOURS
NON-BRG WALLS AND PARTITIONS (INTR)	0 HOURS
LOOR CONSTR AND SECONDARY MEMBERS	2 HOURS
ROOF CONSTR AND SECONDARY MEMBERS	1 HOURS

FIRE-RESISTANCE RATING FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE {X} : [PER MBC TABLE 602] CONSTRUCTION

YPE / OCCUPANCY	<u> </u>
X < 5 FT 5 FT ≤ X < 10 FT 10 FT ≤ X < 30 FT X > 30 FT	1 HOURS 1 HOURS 1 HOURS 0 HOURS

MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE: [PER MBC TABLE 705.8]

FIRE SEPARATION	DEGREE OF C		TECTION	
DISTANCE	(UP, NS)	.(UP, S)((P)	
10 < 15 FT	15%	45% 4	5%	
UP - U NS - NO	JNPROTECTED T SPRINKLERE	, P - PROTEC ⁻ D, S - SPRINK	TED, LERED	
ADDITIONAL FIR	E-RESISTIVE F	ATINGS :		
DESCRIPTION	C	ODE SECTION	N RATIN	G (HR)
SHAFT ENCLO	SURES	MBC 713.4		
FOUR STO	RIES OR MORE	:	2	
LESS THAN	N FOUR STORI	ES:	1	
EXIT ENCLOSU	JRES	MBC 1023.2		
FOUR STO	RIES OR MORE	:	2	
LESS THAN	N FOUR STORI	ES:	1	
EXIT PASSAGE	WAYS :	MBC 1024.3	2	
HOISTWAY EN	CLOSURES :	MBC 713.4	2	
ELEVATOR MA	CHINE ROOMS	: MBC 3005.4	2	
CORRIDORS:		SPRINKLERE	D: O	[MBC TABLE 1020.1]

OCCUPANCY: B OCC LOAD SERVED: ALL RATING (HR): 1 (0 @ FOURTH FLOOR)

LIFE SAFETY SYSTEMS:

(PER MBC AND IFC CHAPTER 9) AUTOMATIC SPRINKLER SYSTEM : OPROVIDED PER NFPA 13 (FOURTH FLOOR ONLY)

LTERNATIVE AUTOMATIC FIRE- XTINGUISHING SYSTEMS :	O PROVIDED - REFER TO FIRE PROTECTION DRAWINGS
TANDPIPE SYSTEM FOURTH FLOOR COVERAGE) :	● PROVIDED PER NFPA 14
ORTABLE FIRE EXTINGUISHERS	: ● PROVIDED PER NFPA 10

FIRE ALARM SYSTEM PROVIDED PER NFPA 72

TECT	URAL INDEX			
et Der	Sheet Title	ADDENDUM #2	PERMIT & BID SET	OWNER REVIEW
)	COVER SHEET	\bullet	\bullet	
	CODE COMPLIANCE PLANS		\bullet	
	CODE COMPLIANCE PLANS		\bullet	
	DEMOLITION AND NEW WORK FLOOR PLANS	\bullet		
RICA	L INDEX			
<u></u>		JM #2	3ID SET	EVIEW

et Der	Sheet Title	ADDENDUN	PERMIT & BII	OWNER RE
	ELECTRICAL SYMBOLS AND ABBREVIATIONS		\bullet	
	ONE LINE DIAGRAM AND PANEL SCHEDULES		\bullet	
	ELECTRICAL DEMOLITION PLANS	ullet	\bullet	
	ELECTRICAL NEW PLANS			lacksquare

MECHANICAL INDEX

et Der	Sheet Title		ADDENDUM #2	PERMIT & BID SET	OWNER REVIEW
1	FIRE PROTECTION AND PLUMBING PLANS - BASEMENT			lacksquare	\bullet
	MECHANICAL DEMOLITION AND NEW WORK PLANS NOTES AND SCHEDULES		•		•

DATE ISSUED FOR REV			
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Client	NE STATE	Management Stroit, MI 48202	
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DEMOLITION PLAN - BASEMENT SCALE: 1/8" = 1'-0" A1-01



DEMOLITION PLAN - FIRST FLOOR SCALE: 1/8" = 1'-0" A1-01





SYMBOL	LEGEND
SYMBOL	DESCRIPTION
	EXISTING PARTITIONS TO REMAIN. PATCH AND REPAIR GYP. BD AS NECESSARY TO ENSURE A SMOOTH, SEAMLESS FINISH SUITABLE FOR NEW PAINT OR WALL COVERING.
	EXISTING PARTITION OR CASEWORK TO BE REMOVED. ALL LARGE CASEWORK SHALL BE DISASSEMBLED AND RELOCATED INTO DESIGNATED STAGING AREA WHERE THE SECTIONS MAY BE SAW CUT OR BROKEN DOWN INTO DISPOSABLE PIECES.
€ (#)	KEY NOTE DESIGNATION
	AREA OF EXISTING NOT IN CONTRACT

GENERAL DEMOLITION NOTES:

- 1. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL CODES, ORDINANCES, AND REGULATIONS, INCLUDING THE RULES AND STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, BOCA, NFPA AND OSHA.
- 2. THE CONTRACTOR SHALL VISIT THE EXISTING SITE AND BUILDING AND SHALL EXAMINE ALL OF THE PHYSICAL CONDITIONS THAT AFFECT THE CONTRACT PRICE, NOTING THE LOCATION OF EXISTING EQUIPMENT AND SERVICES, ETC. NO ADDITIONS TO THE CONTRACT PRICE WILL BE PERMITTED DUE TO AN IGNORANCE OF EXISTING CONDITIONS THAT ARE OBSERVABLE PRIOR TO CONSTRUCTION.
- 3. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING FIELD CONDITIONS TO FAMILIARIZE HIMSELF WITH DEMOLITION AND OR REMOVAL WORK WHICH MAY BE REQUIRED TO PRODUCE THE END RESULTS OF THE CONTRACT DOCUMENTS.
- PROTECT ALL ITEMS AND FINISHES INCLUDING BUT NOT LIMITED TO EXISTING COLUMNS, EXISTING TO REMAINING WINDOWS, DOORS, GLAZING, STRUCTURAL MEMBERS NOT SPECIFIED TO BE DEMOLISHED OR REMOVED FROM DUST AND DAMAGE.
- 5. CONTRACTOR SHALL PROVIDE OWN DUMPSTER(S). ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM SITE BY DEMOLITION CONTRACTOR. DUMPSTER LOCATION SHALL BE APPROVED BY OWNER OR PROJECT MANAGER.
- 6. AREA OF DEMOLITION/ CONSTRUCTION SHALL BE LEFT BROOM CLEAN.
- 7. IN AREA OF CONSTRUCTION REMOVE FLOORING, WALL BASE, WALL COVERING LIGHTING AND OTHER ITEMS AS SHOWN ON DRAWING (U.O.N.)
- 8. MOST SCHEDULED SHUT DOWNS OF BUILDING SYSTEMS WILL BE AT NIGHT OR ON WEEKENDS.
- 9. SECURE CONSTRUCTION ZONE OF BUILDING THROUGHOUT ENTIRE DEMOLITION PROCESS.

DEMOLITION NOTES BY SYMBOL:

- ELEVATOR INSTALLER TO REMOVE EXISTING ELEVATOR CONTROLLERS, DI MOTORS, GOVERNORS AND MISC. ADDITIONAL EQUIPMENT AS REQUIRED FOR ELEVATOR MODERNIZATION UPGRADES.
- DEMOLISH AND REPLACE EXIST ELEVATOR PIT LIGHT FIXTURES AND GFCI POWER OUTLETS. REFER TO ELEC DWGS FOR ADDITIONAL INFO.
- DEMOLISH EXIST ELEVATOR KEYSWITCH @ BASEMENT LEVEL. PROVIDE COVERPLATE AT FORMER LOCATION. PAINT WALL TO MATCH EXIST ADJACENT FINISH.
- D4 MOVE EXIST FIRST FLOOR KEYSWITCH TO APPROX 60" AFF FROM ITS CURRENT LOCATION. ABANDON EXIST FIRST FLOOR AND BASEMENT KEYSWITCH JUNCTION BOX AND PROVIDE STEEL COVERPLATE AT EXISTING LOCATION. PAINT TO MATCH EXIST ADJACENT
- D5 SCHEDULED FOURTH FLOOR FIRE SUPPRESSION LINE PENETRATION TO RECEIVE 2-HR THROUGH PENETRATION FIRE RATED ASSEMBLY. REFER TO MECH DWGS
- (D6) EXIST ELEVATOR HOISTWAY EXHAUST LOUVER TO BE DEMOLISHED IN IT'S ENTIRETY. ADJACENT EXTERIOR MASONRY WALL AND ROOF EDGE ASSEMBLY TO BE PARTIALLY DEMOLISHED AS REQ'D FOR INSTALLED SCHEDULED LOUVER AND MISC. STEEL LINTEL. PATCH AND REPAIR ROOF EDGE ASSEMBLY AS NECESSARY.
- D7 EXISTING SMOKE DETECTORS TO BE REPLACED & TIED INTO EXISTING BUILDING MANAGEMENT SYSTEM. SMOKE DETECTOR & HEAT DETECTOR IN SHAFT TO ACTIVATE DAMPER AT EXTERIOR EXHAUST LOUVER.
- D8ELEVATOR VENDOR TO REMOVE EXIST ELEVATOR LANTERNS/CALL BUTTON
CONTROL PANELS AS REQUIRED FOR ELEVATOR MODERNIZATION UPGRADES - TYP @ EA FLOOR. ~~~~~~
- REMOVE EXIST PASSIVE SMOKE EXHAUST VENT ON HOISTWAY ROOF. PATCH AND REPAIR ROOF AND GROUT SOLID EXIST CORED CONCRETE OPENING. PROVIDE 2-HR RATED BLOCK INFILL IN REMAINING OPENING.
- D11 REMOVE EXIST AIR INTAKE GRILLE. PROVIDE 2-HR RATED BLOCK INFILL IN REMAINING OPENING.

CONSTRUCTION NOTES BY SYMBOL

- A1 ELEVATOR VENDOR RESPONSIBLE FOR SCHEDULED ELEVATOR MODERNIZATION EQUIPMENT UPGRADES/REPLACMENT THROUGHOUT HOISTWAY, CABS AND MACHINE ROOM/ GC TO PROVIDE NEW SMOKE & HEAT DETECTOR TIED INTO SCHEDULED EXHAUST LOUVER - REFER TO MECH & ELEC DWGS. GC TO INSTALL SCHEDULED ELEVATOR PIT LIGHTS AND REPLACMENT GFCI JUNCTION BOXES. (A4) INSTALL NEW SPRINKLER HEAD @ TOP OF HOISTWAY SHAFT CONNECTED WITH SHUNT HEAT TRIP DETECTOR (A5) MESH SCREENWALL DIVIDER BETWEEN HOISTWAY SHAFT AND MECHANICAL ROOM BY FLEVATOR VENDOR MECHANICAL ROOM BY ELEVATOR VENDOR SCHEDULED SMOKE EXHAUST LOUVER. PROVIDE (2) $L3x3x_4^{4}$ " STEEL LINTEL ANGLES. LENGTH TO ACCOMMODATE NEW MASONRY OPENING. PATCH AND REPAIR EDGE OF AND PORTION OF ROOF AND FLASHING
- THAT MAY BE DAMAGED DURING LOUVER INSTALLATION. (A7) REPLACEMENT ELEVATOR CALL BUTTON PANEL BY ELEVATOR VENDOR AB ALTERNATE #1: PAINT CORRIDOR FACING ELEVATOR DOOR AND FRAME -(A9) INFILL OPENING W/ 2-HR RATED CMU BLOCK

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Project Man A. NOLFF	ager	Drawn R. HAAS	
Project Lead R. HAAS Client	ler	Checked G. KARANFILOVS	KI
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	08-02-19 08-19-19 09-05-19 This drawin of CLIENT N any kind m party with entered into This drawin purposes u and dated b Keyplan North Arrow Seal(s) Seal(s) Project Man A. NOLFF Project Leao R. HAAS Client	08-02-19 OV 08-19-19 PERM 09-05-19 AE This drawing has been port of CLIENT NAME and theration and the search party with whom LEGAL	08-02-19 OWNER REVIEW 08-19-19 PERMIT AND BID SET 09-05-19 ADDENDUM #2 This drawing has been prepared solely for of CLIENT NAME and there are no represent any kind made by LECAL COMPANY NAME entered into a contract. This drawing shall not be used for conspurposes until the seal appearing hereon is and dated by the Architect or Engineer. Keyplan Image: Company and the seal appearing hereon is and dated by the Architect or Engineer. North Arrow Detail Symbol Seal(s) Detail Symbol Seal(s) Image: Company 719 Griswold Street, Suite 1000 Detrail Symbol Project Manager Drawn Nocker Leader Checked R. HAAS Checked R. HAAS Checked Client Drawn

Check Scale (may be photo reduced) 1 inch

Project No. JCDT18-0229

Drawing No. A1-01



* NOTES BY SYMBOL:



1 EXISTING 4" FLOOR DRAIN TO BE REUSED. INSTALL TRAP SEAL PRIMER FOR THE EXISTING DRAIN.

NEW 1" FIRE PROTECTION PIPE TO BE CONNECTED TO 6" EXISTING FIRE PROTECTION MAIN IN BASEMENT MECHANICAL ROOM. FIELD VERIFY EXACT SIZE AND POINT OF CONNECTION TO THE EXISTING PIPE.

		╽╽	DATE	ISSU	IED FOR	
FIF	RE PROTECTION GENERAL NOTES:	╽┟	08-02-19	OWN		
1.	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INTENT OF	╿┠	08-19-19			
	THE WORK. PROVIDE FIRE PROTECTION SYSTEMS COMPLETE, PER APPLICABLE CODES, PER NFPA, AND PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION INCLUDING ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC.AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.					
2.	FIRE PROTECTION CONTRACTOR SHALL COORDINATE WORK WITH THE WORK OF ALL OTHER TRADES.					
3.	MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".					
4. 5	FIRE PROTECTION WATER SUPPLY SOURCE SHALL BE PER NFPA 24.					
0.						
0.	INSTALLATION USING UNDERWRITER LABORATORIES UL LISTED PRODUCTS INCLUDING DESIGN, OBTAINING APPROVALS AND COORDINATION WITH OTHER TRADES.					
7.	INSTALL TO MEET NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS AND NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE AND LOCAL AUTHORITY HAVING JURISDICTION.					
8.	NORR DESIGN DOCUMENTS ARE FOR PERMIT PURPOSES.					
9.	THE DESIGN IS NOT INTENDED TO LIMIT THE CONTRACTOR FROM PROVIDING ANOTHER DESIGN THAT MAY BE MORE ECONOMICAL AND STILL MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.	lŀ	This drawin	ng has been pre	pared solely for t	he i
10.	HYDRAULIC CALCULATIONS:		any kind n party with	nade by LEGAL whom LEGAL C	COMPANY NAME OMPANY NAME h	to a as i
	 A. SUBMIT WORKING PLANS PER NFPA 13 AND HYDRAULIC CALCULATIONS USING HYDRAULIC CALCULATIONS PROCEDURES IN ACCORDANCE WITH NFPA 13. SIGNED AND SEALED BY A REGISTERED PROFESSIONAL FIRE PROTECTION ENGINEER TO THE AUTHORITY THAT HAVE JURISDICTION. B. WORKING PLANS AND COMPUTERIZED HYDRAULIC CALCULATIONS SHALL BE PREPARED A MINIMUM LEVEL 3 N.I.C.E.T. CERTIFIED SPRINKLER LAYOUT DESIGNER. DRAWINGS SHALL BE SIGNED AND THE N.I.C.E.T. CERTIFICATE NUMBER INDICATED ON PLAN. ALL DRAWINGS, INCLUDING AS-BUILTS, SHALL BE SUBMITTED ON DISC USING AUTO CAD. C. THE HYDRAULIC CALCULATIONS SHALL INCLUDE THE PRESSURE DROP THROUGH ALL PIPE, FITTINGS AND DEVICES, INCLUDING THE PRESSURE DROP THROUGH THE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER, FROM THE MOST HYDRAULIC REMOTE POINT OF THE SPRINKLER SYSTEM TO THE LOCATION OF THE TEST HYDRANT. D. THE HYDRAULIC CALCULATIONS SHALL BE BASED ON THE LATEST FLOW TEST DATA. 		entered into This drawi purposes u and dated b Keyplan	o a contract. ng shall not be ntil the seal app by the Architect o	e used for const bearing hereon is or Engineer.	ruct sigr
11.	FIRE PROTECTION CONTRACTOR SHALL PROVIDE A GUARANTEE COVERING ALL DESIGNED, INSTALLATION, MATERIAL AND WORKMANSHIP FOR ONE YEAR FOLLOWING DATE OF ACCEPTANCE.		North Arro		Detail Symbol	
12.	PIPING SHALL BE SLOPED TO DRAIN BACK TO SPRINKLER RISER. AUXILIARY DRAINAGE IN ACCORDANCE WITH NFPA 13 SHALL BE PROVIDED FOR ALL TRAPPED SECTIONS OF PIPE.					
13.	SPRINKLER DESIGN SHALL BE IN CONFORMANCE WITH NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.			No Tu	Detail N Sheet N	10 10
14.	 SPRINKLER DISIGN: A. PROVIDE AUTOMATIC SPRINKLER BELOW OBSTRUCTIONS 48 INCHES AND WIDER. (PLATFORMS, DUCTWORK, STAIRWAYS, UNIT HEATER, ETC.) B. THE SPRINKLER DESIGN SHALL BE BASED ON LISTED SPRINKLERS. AT THE CONTRACTOR'S OPTION. LISTED QUICK-RESPONSE SPRINKLERS MAY BE USED, IN CONFORMANCE WITH NFPA 13 AND AUTHORITY HAVING JURISDICTION. C. SPRINKLERS WITH A TEMPERATURE RATING OF 135°F TO 170°F ARE CLASSIFIED AS ORDINARY TEMPERATURE RATED SPRINKLERS. SPRINKLERS WITH A RATING OF 175°F TO 225°F ARE CLASSIFIED AS INTERMEDIATE TEMPERATURE RATED SPRINKLERS. 		Seal(s)			
15.	CONTRACTOR SHALL MAKE PRESSURE AND FLOW TEST PRIOR TO SYSTEM DESIGN. REFER TO SPECIFICATIONS FOR REQUIREMENTS.					
16.	THE FOLLOWING INFORMATION SHALL BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR AT SUBMITTAL OF SHOP DRAWINGS AND CALCULATIONS:					
	 A. STATIC PRESSURE PSI: <u>XX</u> B. RESIDUAL PRESSURE PSI: <u>XX</u> C. FLOW GPM: <u>XX</u> D. FLOW TEST HYDRANT LOCATIONS: <u>HYD. #1 - LOCATION, HYD #2 - IOCATION</u> E. DATE OF TEST: <u>XX-XX-XXXX</u> F. TIME OF TEST: <u>XXXX</u> G. RESPONSIBLE PARTY CONDUCTING TEST: <u>XXXXX</u> H. HYDRANT OUTLET DISCHARGE COEFFICIENT: <u>XXX</u> 		NORR L An Ingeniu	ORI LC m Group Company	R	
17.	PIPE ALL DRAINS AND INSPECTOR'S TEST TO OUTSIDE, OR DISCHARGE TO A DRAIN APPROVED BY THE OWNER FOR SPRINKLER DISCHARGE.		719 Grisv Detroit, M www.norr	vold Street, Suite Iichigan, 48226 r.com	1000 USA	
			Project Mar	ager	Drawn	
		ŀ	A. NOLFF Project Lead	der	I. FONAREV Checked	
			Client WAY F 5	NE STATE acilities Planning 454 Cass Ave, D	UNIVERSI & Management etroit, MI 48202	' TY
			Project STA F Drawing Tit FIRE PRO PLUMBIN	ATE HALL REFURBISH RENOV/ 143 Cass Ave, D te te TECTION AN	ELEVATOR HMENT & ATION etroit, MI 48202	
			Check Scale	e (may be photo i linch	reduced) 0 10mm	
		ΙĪ	Drawing No		1	





DEMOLITION NOTES BY SYMBOL:

						1												
						L	OUVER SCF	IEDULE										
T.	AG		QTY		WIDTH	н	EIGHT	FRAME				CO	MME	NTS				
Ľ	LV-1 1 5'-10"			2'-1"	STANDAR	D	INSTALL BAKED EN/	BIRD A AMEL F	ND INS INISH, AR	ECT : COLC CHITE	SCRI)UR: ⁻ ECT	EEN, Fo be	PRIMI E SELI	E COAT, ECTED BY				
						MOTOR			וווח:									
TAG	Q	TY	WIDTH	HEIG	HT DE			FRAM				СО	MME	NTS				
DM-1	AG QTY WIDTH HEIGHT D M-1 1 5'-10" 2'-1" 0'		" 0'-8	3 1/8" OF	PPOSED BLADE	ANODIZED FINISH, FACTORY INSTALLED ELECTRIC ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING BRACKET AND SP100 SWITCH PACKAGE TO REMOTELY INDICATE BLADE POSITION FRONT FLANGE FRAME - INSULATED					LECTRIC ER), WITH SWITCH POSITION, D)							
\sim	\sim	\sim	\sim	\frown		$\sim \sim$	\sim	$\sim \sim$	\sim	\sim	\sim	\sim	\frown	\sim	\langle	\sim		\sim
						SF	PLIT SYSTE	M COO	LING	SCHED	ULE							
												EL	ECTRI	CAL				
EQUIPMEN T TAG	AREA SERVE D	CAPACIT Y (BTUH)	DB (°F)	WB (°F)	AIRFLOW (CFM)	REFRIGERANT	DIMENSION HxWxL (IN)	WEIGHT (LBS)	SEER	MODEL NUMBER	VOLT	PHASE	ΗZ	HP	MCA	MOP		REMARKS
AC-1	ELEV EQ ROOM	12000	80	67	425-320	R-410A	12x10x36	29	20.8	PKA-A12HA7	208/23 0	1	60	0.16	1	-		1,2,3 & 4

4. WALL MOUNT UNIT.

 $\langle 14 \rangle$

 $\langle 14 \rangle$







	DATE ISSUED FOR REV
DEMOLITION NOTES BY SYMBOL: GENERAL NOTES:	08-02-19 OWNER REVIEW -
(MD1) EXISTING ELEVATOR HOISTWAY VENTILATION LOUVER AND MOTORIZED DAMPER TO BE REMOVED 1. THE FACILITY SHALL REMAIN OPERATIONA	08-19-19 PERMIT AND BID SET - L DURING CONSTRUCTION - -
COMPLETELY. CONTRACTOR FIELD VERIFY EXACT SIZE. 2. THE CONTRACTOR SHALL REPLACE/RESTOR DECUMPED TO DEMANN OPERATIONAL OPERAT	DRE ANY ITEM OR EQUIPMENT FING RELOCATED THAT IS DAMAGED
NEW WORK NOTES BY SYMBOL: DURING CONSTRUCTION. EQUIPMENT THAT FACILITATE THE INSTALLATION OF NEW WO	T IS TEMPORARILY REMOVED TO DRK SHALL BE REINSTALLED AND
MI) INSTALL NEW HOISTWAY VENTILATION LOUVER AND RESTORED TO ITS ORIGINAL CONDITION. F MOTORIZED DAMPER. COORDINATE OPENING WITH REQUIRED TO MATCH EXISTING ARCHITECTURAL. CONNECT DAMPER ACTUATOR WITH	PATCH ALL WALL OPENINGS AS
SMOKE DETECTOR, HEAT DETECTOR AND ELECTRICAL 3. VERIFY ALL BUILDING DIMENSIONS AND LO RESPECTIVE DISCIPLINE OF ANY DISCREPA	CATIONS IN FIELD AND NOTIFY THE ANCIES BEFORE COMMENCEMENT OF
LOUVER SCHEDULE 4. THE CONTRACTOR SHALL PERFORM WORK	SO AS NOT TO INTERFERE WITH THE
TAG QTY WIDTH HEIGHT FRAME COMMENTS INSTALL BIRD AND INSECT SCREEN, PRIME COAT, OWNER'S USE OF THE BUILDING AND SHALL DAYS PRIOR TO CONNECTING TO EXISTING	L NOTIFY THE OWNER IN WRITING 5 G UTILITIES. AT NO TIME SHALL THE
LV-1 1 5'-10" 2'-1" STANDARD BAKED ENAMEL FINISH, COLOUR:TO BE SELECTED BY APPROVED BY THE OWNER. THE CONTRAC ARCHITECT CONNECTIONS AS REQUIRED TO MAINTAIN	STEMS BE INOPERATIVE UNLESS CTOR SHALL PROVIDE TEMPORARY ALL NECESSARY SERVICES FOR THE
BUILDING, AT NO ADDITIONAL COST. THE R MOTORIZED DAMPER SCHEDULE	ELOCATION OF EXISTING UTILITIES ICE OF THE OWNER.
TAG QTY WIDTH HEIGHT DEPTH BLADE ACTION FRAME COMMENTS 5. FIELD VERIFY EXACT SIZE AND LOCATION OF BEING REUSED.	OF EXISTING MECHANICAL SERVICES
DM-1 1 5'-10" 2'-1" 0'-8 1/8" OPPOSED BLADE STANDARD ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING BRACKET AND SP100 SWITCH 6. PERFORM WORK IN ACCORDANCE WITH THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING BRACKET AND SP100 SWITCH 6. PERFORM WORK IN ACCORDANCE WITH THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING BRACKET AND SP100 SWITCH 6. PERFORM WORK IN ACCORDANCE WITH THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING BRACKET AND SP100 SWITCH 6. PERFORM WORK IN ACCORDANCE WITH THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING BRACKET AND SP100 SWITCH 6. PERFORM WORK IN ACCORDANCE WITH THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING BRACKET AND SP100 SWITCH 6. PERFORM WORK IN ACCORDANCE WITH THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING BRACKET AND SP100 SWITCH 6. PERFORM WORK IN ACCORDANCE WITH THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V, 2.5W, 5.5VA TRANSFORMER), WITH FRAME MOUNTING THE ACTUATOR (24V	HE LATEST EDITIONS, REVISIONS,
PACKAGE TO REMOTELY INDICATE BLADE POSITION, AMENDMENTS, OR SUPPLEMENTS OF APPL FRONT FLANGE FRAME - INSULATED CODES OR REGULATIONS OF FEDERAL, ST JURISDICTION IN EFFECT ON THE DATE BID JURISDICTION IN EFFECT ON THE DATE BID	ATE, AND LOCAL AUTHORITIES HAVING OS ARE RECEIVED.
	of CLIENT NAME and there are no representations of any kind made by LEGAL COMPANY NAME to any
	party with whom LEGAL COMPANY NAME has not entered into a contract.
EQUIPMEN T TAG AREA SERVE D CAPACIT Y (BTUH) DB (°F) WB (°F) AIRFLOW (CFM) REFRIGERANT DIMENSION HXWXL (IN) WEIGHT (LBS) SEER MODEL NUMBER VOLT PHASE HZ HP MCA MOP REMARKS REMARKS REMARKS	This drawing shall not be used for construction purposes until the seal appearing hereon is signed
AC-1 $\begin{bmatrix} ELEV \\ EQ \\ ROOM \end{bmatrix}$ 12000 80 67 425-320 R-410A 12x10x36 29 20.8 PKA-A12HA7 $\begin{bmatrix} 208/23 \\ 0 \end{bmatrix}$ 1 60 0.16 1 - 1,2,3 & 4	and dated by the Architect or Engineer.
ACC-1 ELEV EQ 12000 95 75 1590 R-410A 24x12x32 92 - PUY-A12NKA7 208/23 1 60 0.20 11 28 1 & 3	Keyplan
NOTES: I. MODEL NUMBERS ARE MITSUBISHI UNLESS OTHERWISE NOTED. 2. POLICE CONDENSATE LINE TO EXIST EL OOR DRAIN LOCATED IN MER AD LACENT TO EL EVATOR MACHINE ROOM	
 ROUTE REFRIGERANT LINES BETWEEN AC-1 AND ACC-1. WALL MOUNT UNIT. 	AREA OF WORK
DURING NORMAL OPERATION AND OPEN UPON LOSS OF POWER ON A SIGNAL FROM	North Arrow Detail Symbol
HOIST WAY VENTILATION LOUVERS AT WALL OR NUMBER OF CONTACTS WITH THE	
A POSITION ROOF ELECTRICAL AND FIRE PROTECTION	Detail No.
DAMPER TWO POSITION, N.O. 2. REFER TO PENTHOUSE PLAN AND SCHEDULES FOR LOCATION OF DAMPER	Abortine Sheet NO.
AN ALARM AT ECC.	Seal(s)
A SPACE SMORE DETECTOR* LOCATED AT TOP DETECTOR* A DETECTOR* A DETECTOR A DET	
SD SPHASE 1 RECALL STORE ALARM* & INITIATE STORE ALARM* & INITIATE STORE ALARM SHALL BE ACTIVATED	
WHEN THE HOISWAY HEAT DETECTOR EXCEEDS TEMPERATURE.	
$\langle \rangle \sim \sim \sim \langle \rangle$	
*BY ELECTRICAL	
	NORR LLC An Ingenium Group Company
	719 Griswold Street, Suite 1000
3 HOISTWAY VENT DAMPER CONTROLS	Detroit, Michigan, 48226 USA www.norr.com
M1-01 SCALE: NOT TO SCALE	
	Project Manager Drawn A. NOLFF I. FONAREV Project Leader Chacked
	Client
	WAYNE STATE UNIVERSITY
	Facilities Planning & Management 5454 Cass Ave. Detroit. MI 48202
$\langle \qquad - \qquad + \qquad +$	Project
	STATE HALL ELEVATOR
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	REFURBISHMENT & RENOVATION
REFER TO ARCH	5143 Cass Ave, Detroit, MI 48202
PAICH	MECHANICAL DEMOLITION AND
AC-1 ON TOP OF ELEV. EQ. RM	NEW WORK PLANS NOTES AND SCHEDULES
REFRIGERANT EXIST LOUVER LINES BETWEEN TO BE DEMO. AC-1 AND ACC-1. REFER TO ARCH	
CORE HOLES IN FOR WALL PATCH ELEV EQ RM ROOF FOR WALL PATCH	
PIPES THROUGH. I	Check Scale (may be photo reduced)
A MECHANICAL - BASEMENT	
M1-01 SCALE: 1/4"=1'-0"	JCDT18-0229
	Drawing No. M1-01
19 TIME: 12:48 PM	

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER
A	24" WALL MOUNTED LED SEALED STRIP FIXTURE. IP65 RATED.	LITHONIA DMW2-L24-3000LM-ACL-MD- GZ10-35K-80CRI





			EXIS	STINC	g pai	NELE	BOAR	RD	RP-E	LE	V				SCH
		VOLTAGE: BUS SIZE:	240/12 100	0 AMP	MAINS	100A	MCB			MO FAL	UN ⁻ JLT		G: ITY:	SURFA 10k	CE
					LOAD	(KVA)			BRK	R	P	H		BRKR	
No.	SERVES		LTG	RCPT	MTR	A/C	HTG	MISC	TRIP	Р	A	c	Ρ	TRIP	MISC
1	ELEV ROOM LIGHTS		0.5						20	1	X		1	20	
3	CAB LIGHTS ELEV 2		0.5						20	1		X	1	20	
5	EXHAUST FAN				0.5				15	1	Х		1	20	
7	SUMP PUMP				1.0					2		X	1	20	
9	SPACE										Х				
11	PIT GFCI			0.2								X			
13	PLT LIGHT		0.2								Х				
15	SPACE											Х			
17	SPACE										Х				
19	SPACE											Х			

				NEW	/ PAN	ELBC	ARD			DP-E	EL					
			VOLTAGE:	240HLE	D/120	MAINS	: 400A	MLO			MO			G: ITV	REC	ES
			DUG GIZE.	400						PDK					42K	
No		SERVES		ITG	RCPT			HTG	MISC		P		R	'c	Р	
1		0211120					,				•	X		Ē		
3	ELEVATOR 1					14.9				60	3		x		3	6
5	1									1				X	\sim	\sim
7	SPACE											X		Z	2	1
9	SPACE											1	X	S		
11	SPACE											1		X	2	3
13	SPACE											1 X		S		
15	SPACE												X			$\overline{}$
17	SPACE													X		
19	SPACE											X				
21	SPACE												X			
23	SPACE													X		
25	SPACE											X				
27	SPACE												X			
29	SPACE											1		X		
31	SPACE											X				
33	SPACE											1	X			
35	SPACE													X		
37	SPACE											X				
39	SPACE											1	X		$ \longrightarrow $	
41	SPACE													X		



					N V	IAIN S With t Projed	SWITCH The Pi	HBOARD IS _D/DTE_UTI ONSTRUCTIO	BEING LITY S)N IS	PROV SWITCH DUF T	IDED OVEF OST	₹ 4RT
					F F	ALL C AIN S PROJEC	DF 20 SWITCH CT.	19. COORDI 19. COORDI 180ARD WI	. 13 NATE TH PL[CONNE D/DTE	ECTION	N TC
)MAIN 00A, GH LE	SWITO 240V, G DEL	CHBO 3PH TA	ARD , 4W	MSB								
				-	 							
ACE												
SCH	IEDUI	LE	EMARK	(S:								
	IEDUI	LE RI LOAD A/C	EMARK (KVA) MTR	(S: RCPT 0.2	LTG 0.5	ELEV F		SERVES SFI LEV 1	1	No. 2 4		
	IEDUI	LOAD A/C	EMARK (KVA) MTR	(S: RCPT 0.2 0.4	LTG 0.5 0.2	ELEV F CAB LIG PIT GFI PIT LIG SPACE SPACE	S ROOM G GHTS E I HTS	SERVES SFI LEV 1	1	Vo. 2 4 6 8 10 12		
	IEDUI	LOAD A/C	EMARK (KVA) MTR	(S: RCPT 0.2 0.4	LTG 0.5 0.2	ELEV F CAB LIQ PIT GFI PIT LIG SPACE SPACE SPACE SPACE	S ROOM G GHTS E I HTS	SERVES SFI LEV 1		Vo. 2 4 6 8 10 12 14 16 18		
SCH ACE MISC	IEDUI	LOAD A/C 0.0 0.0	EMARK (KVA) MTR 1.5 1.8	<pre></pre>	LTG 0.5 0.2 1.9 1.9	ELEV F CAB LI PIT GFI PIT LIG SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	ROOM G GHTS E I HTS CTED K ND KVA	SERVES SFI LEV 1	4.1 4.5 19	Vo. 2 4 6 8 10 12 14 16 18 20		
SCH ACE MISC	IEDUI			(S: RCPT 0.2 0.4 0.4 0.7 0.7	LTG 0.5 0.2 1.9 1.9	ELEV F CAB LIQ PIT GFI PIT LIG SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	S ROOM G GHTS E I HTS I HTS I CTED K ND KVA	SERVES SFI LEV 1	4.1 4.5 19	Vo. 2 4 6 8 10 12 14 16 18 20		
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SCH ACE MISC 0.0 0.0 0.0 0.0	IEDUI		EMARK (KVA) MTR 1.5 1.8 DULE	(S: RCPT 0.2 0.4 0.4 0.7 0.7 0.7 0.7 0.7	LTG 0.5 0.2 1.9 1.9 1.9 XARKS	ELEV F CAB LI PIT GFI PIT LIG SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	SROOM G GHTS E I HTS CTED K ND KVA ND AMP	SERVES SFI LEV 1	4.1 4.5 19 SERVES	VO. 2 4 6 8 10 12 14 16 18 20		No.
SCH ACE MISC 0.0 0.0 0.0 0.0 0.0 0.0 0.0				(S: RCPT 0.2 0.4 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7	LTG 0.5 0.2 1.9 1.9 1.9 1.9 KARKS (VA) MTR 14.9	ELEV F CAB LIQ PIT GFI PIT LIG SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE		SERVES SFI LEV 1	4.1 4.5 19	NO. 2 4 6 8 10 12 14 16 18 20 5		No. 2 4
SCH ACE MISC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	IEDU			S: RCPT 0.2 0.4 0.7	LTG 0.5 0.2 1.9 1.9 1.9 1.9 1.9	ELEV F CAB LIQ PIT GFI PIT LIG SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE		SERVES SFI LEV 1 (VA S S ELEVATOR 2 AC-1 ACC-1	4.1 4.1 4.5 19	√0. 2 4 6 8 10 12 14 16 18 20		No. 2 4 8 10 12
SCH ACE MISC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.				(S: RCPT 0.2 0.4 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	LTG 0.5 0.2 1.9 1.9 1.9 1.9 1.9	ELEV F CAB LIU PIT GFI PIT LIG SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE		SERVES SFI LEV 1 S S ELEVATOR 2 AC-1 ACC-1 SPACE	4.1 4.5 19	No. 2 4 6 8 10 12 14 16 18 20 5		No. 2 4 8 10 12 14 18
SCH ACE MISC 0.0 0.0 0.0 0.0 0.0 0.0 2 2 2 2 2	IEDU HTG O.0 O.0 O.0 SED KR RIP M S0 SED KR RIP M S0 SED			S: RCPT 0.2 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	LTG 0.5 0.2 1.9 1.9 1.9 1.9 1.9	ELEV F CAB LIQ PIT GFI PIT LIG SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE		SERVES FI LEV 1 (VA S ELEVATOR 2 AC-1 ACC-1 ACC-1 SPACE SPACE SPACE SPACE SPACE SPACE	4.1 4.1 4.5 19	No. 2 4 6 8 10 12 14 16 18 20 5 		No. 2 4 8 10 12 14 18 20 22 24
SCH ACE MISC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	IEDU HTG 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.			S: RCPT 0.2 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	LTG 0.5 0.2 1.9 1.9 1.9 1.9 1.9	ELEV F CAB LIQ PIT GFI PIT LIG SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE		SERVES FI LEV 1 S KVA S ELEVATOR 2 AC-1 ACC-1 ACC-1 SPACE	4.1 4.1 4.5 19			No. 2 4 8 10 12 14 18 20 22 24 26 28 30
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SCH ACE MISC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	IEDU HTG 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.			S: RCPT 0.2 0.4 0.2 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	LTG 0.5 0.2 1.9 1.9 1.9 1.9 1.9	ELEV F CAB LI PIT GFI PIT LIG SPACE SPACE SPACE SPACE SPACE CONNE DEMAN DEMAN		SERVES FI LEV 1 S C C C C C C C C C C C C C				No. 2 4 8 10 12 14 76 22 24 26 28 30 32 34 36 38 40

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08-19-19	PERMIT	AND BID SET	-
09-05-19	ADD	ENDUM #2	1
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any kind n party with entered intered intered	nade by LEGAL whom LEGAL (o a contract.	COMPANY NAME to COMPANY NAME has be used for constru	any s not
purposes u and dated l	ntil the seal ap by the Architect	pearing hereon is si or Engineer.	gned
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Project Mar A. NOLFF Project Lead	der	Drawn M. GOOD Checked G. KARANFILOVSKI	
Client WAY F 5	NE STATE acilities Plannin 454 Cass Ave, I	E UNIVERSIT g & Management Detroit, MI 48202	Y
Project ST/ F Drawing Tit ONE LIN	ATE HALL REFURBIS RENOV 143 Cass Ave, I Ile E DIAGRAM	ELEVATOR HMENT & ATION Detroit, MI 48202	
SCHEDU	e (may be photo	reduced) 0 10mm	
Project No.	JCDT18	3-0229	
Drawing No		,	









	DATE	ISSUE	.D FOR	RE∨
	08-02-19	OWNER	REVIEW	-
ELECTRICAL DEMOLITION KEY NOTES:	08-19-19	PERMIT A	ND BID SET	-
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	Seal(s)	North	Detail N Sheet No	<u>o</u> .
	NORR L An Ingenium 719 Grisw Detroit, M www.norr	DRF IC m Group Company vold Street, Suite 1 lichigan, 48226 US	R 1000 SA	
	Project Man			
	A. NOLFF	der Di	I. GOOD	
	Client WAYN Fa 54 Project STA R 57 Drawing Titl ELECTRIC	ATE HALL E CAL DEMOLITI	. KARANFILOVSKI UNIVERSIT & Management :roit, MI 48202 ELEVATOR IMENT & TION troit, MI 48202	Y
	Check Scale	(may be photo re linch	: duced) 0 10mm	
	Project No.)229	
	Drawing No.	 		

ARCH D - 24"x36" - 610mmx914mm (rounde









NEW WORK KEY NOTES:

- (E1) NEW 60A, 3P SHUNT TRIP CIRCUIT BREAKER FOR ELEVATOR. PROVIDE 4#6 & 1#8G 1"C TO PANEL DP-EL.
 (E2) EXISTING DISCONNECT TO ELEVATOR CAB LIGHT. CONNECT TO NEW ELEVATOR CAB LIGHTS. COORDINATE WORK WITH ELEVATOR MANUFACTURER.
- MANUFACTURER.

 (E3)
 NEW SMOKE DETECTOR LOCATED AT THE TOP OF ELEVATOR SHAFT. CONNECT TO ELEVATOR SMOKE EXHAUST DAMPER.
- CONNECT TO ELEVATOR SMOKE EXHAUST DAMPER. (E4) NEW HEAT DETECTOR LOCATED AT THE TOP OF ELEVATOR SHAFT. HEAT DETECTOR SHALL HAVE RATE-OF RISE AND FIXED TEMPERATURE
- E5 CONNECT RECEPTACLES TO EXISTING CIRCUIT AS INDICATED.
- (E6) CONNECT LIGHT TO EXISTING CIRCUIT AS INDICATED.



Drawing No.

E1-01