BUILDING 3		BUILDING 16		BUILDING 20		 REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, REFER TO SHEET E-602 FOR NEW WORK SINGLE LINE 	
Panel Name: 3-1A-EM Panel Voltage: 208Y/120V, 3 Phase, 4 Wire Breaker Load Phase Load	Panel A.I.C. Rating: 10k Panel Voltage: 2	208/120V, 1 Phase, 3 Wire	Panel A.I.C. Rating: 22k Panel Voltage:	208Y/120V, 3 Phase, 4 Wire	Lugs Only: Yes Main Breaker: Panel A.I.C. Rating: 10k	 CIRCUITS SHOWN SHADED ON EXISTING PANELBOARD S BREAKER TO BE PROVIDED. NEW BREAKERS SHALL BE PANEL, AIC RATING TO MATCH EXISTING. 	SCHEDULES INDICATE : COMPATIBLE WITH
Description P Trip Code VA A B C VA Co	Trip P Description 5 ID 5	P Trip Code VA A - B VA Code Trip P	C	P Trip Code VA A B C VA Code Trip P TS 1 20 L 500 1220 720 REC 20 1 WAY LIGHTS 1 20 L 500 1220 720 REC 20 1 IC (ENG OFFICE) 1 20 REC 720 1440 720 REC 20 1	P Description U U U U U U U U U U U U U U U U U U U		
1 20 A 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1	20 1 SPARE 10 EX 9 SUPPLY OFFICE & MEN 20 1 SPARE 12 N 11 LIGHTS AT PEDESTRIAN 20 1 SPARE 14 EX 13 IT CLOSET E WALL OUT	1 20 20 1 SUPPLY OF 20 1 SUPPLY OF 20 1 SUPPLY OF 600 20 1 NORTH EAST TSIDE OF IT CLOSET 1 20 20 1 NORTH WA	DEFFICE RECEP IN WIRE MOLD 8 EX DEFFICE HEATER 10 EX AST EXIT LIGHT, LIGHTS E RM OUTSIDE LIGH 12 EX WALL RECEPT 14 EX EX 7 PAINT SHOP LIGHTS EX 9 PAINT SHOP NORTH EX 11 SPARE EX 13 SPARE	H, WEST, EAST WALL REC 1 20 REC 720 720 20 1 1 20 500 500 L 20 1 1 20 500 500 L 20 1	1 ENGINEERING OFFICE LIGHTS 8 EX 1 SPARE 10 EX 1 ENGINEERING OFFICE LIGHTS 12 EX 1 ENGINEERING LOFT LIGHTS 14 EX		
1 20	20 1 SPARE 16 EX 15 RECEPT S WALL UNDE	1 20 \ \ 20 1 EXHAUST F	FAN 18 EX EX 17 MEETING ROOM REG SURG PACK RM 20 EX EX 19 SPARE MEST ATTIC 22 EX EX 21 SPARE	1 20 30 1 1 20 720 720 REC 20 1	1 ATTIC AHU 16 EX 1 ENGINEERING LOFT REC 18 EX 1 SPARE 20 EX 1 RM 110, 112 REC 22 EX		
1 20 1 20 1 20 1 20	20 1 SPARE 24	R HANDLER #1 2 100 100 2 100 2 100 2 100 CEPT 1 20 2880 REC 30 1 NEMA 5-30		REC 1 20 REC 720 720 20 1	1 SPARE 20 EX		
1 20 1 20 1 20 1 20	20 1 SPARE 38	Total Load Demand NEC Sizing Load Total Conn. Load: 3 KVA Location: BLDG 1	PANEL INFORMATION EX 33 RM 108N DUPLEX R EX 35 RM 108S REC N 37 LIGHTS AT PEDESTI N 39 GATE ARM CONTRO	REC 1 20 REC 720 9672 8952 1 20 REC 720 10864 10144 REC 100 3 TRIAN GATE #1 1 15 L 30 7542 7512 100 100 100 100 100 100 100 100 100 1	32 EX 34 3 PANEL EE8026 (PANEL CA) 36 EX 38 1 GATE ARM CONTROLLER #1A & LIGHTING FIXTURE 40 N		
1 20 Total Connected Load 2880 3140 180 (VA/PHAS N.E.C. LOAD SUMMARY ELECTRICAL DATA	20 1 SPARE Air Conditioning (AC) Heating (H) Kitchen Equipment (K)	1.00 NEC Sizing Load: 3 KV A Fed From: 13-EE-1 1.00 NEC Sizing Load: 17 Amps Equipment Grou	E-179416 CB 16 (BUILDING 13, PANEL G) ound Bus: Yes Bus Material: Copper	Total Connected Load 1170 2358 1179 NC 15 1	1 GATE ARM CONTROLLER #1B & LIGHTING FIXTURE 42 N PANEL INFORMATION		
pes and Codes	Location: SEE FLOOR PLANS Mounting: Surface Enclosure Type: Nema 1 Fed From: EE8035 Equipment Ground Bus: Yes Bus Material: Copper Receptacles (REC) Existing (E) Continuous (C) Non-Continuous (NC)	2880 1.00 2880 PANEL LEGEND (ID) 1.00 1.00 1.00	NQ 12257128680170001 RUS: PMI 16-FE-177638 Load Types and Codes Air Conditioning (AC) Heating (H)	(VA) Factor (VA) Total Conn. Load: 129 Amps Mour	cation: BUILDING 20 unting: Flush Enclosure Type: Nema 1 From: 13-EE-179416 CB 16 (BUILDING 13, PANEL G) Equipment Ground Bus: Yes Bus Material: Copper Isolated Ground Bus: No Neutral Size: 100%		
Equipment (K) 1.00 Main Bus Size : 125 Amps		1.00 State of the	EMERGENCY PANEL (16EM) Kitchen Equipment (K) Lighting (L) Receptacles (REC) Existing (E) Continuous (C)	3530 1.00 3530 Wall Bus 312e. 225 Allips 37408 0.63 23704 PANEL LEGEND (ID) 1.00 ST - Shunt-Trip C.B.; G - GFI C.B. NQOI	PANEL NOTES 0D442L225		
Continuous (NC)			Non-Continuous (NC) Refrigeration (REF)	1.00	PNL 20-EE-8028 (PANELC), 03-20-01-1		
BUILDING 35		TEMP-GEN		TEMP-CONSTRUCTION			
Panel Name: 03-35-01-2 (BLDG 35) Panel Voltage: 480V, 3 Phase, 3 Wire Breaker Load Phase Load	Breaker + + + + + + + + + + + + + + + + + + +	208Y/120V, 3 Phase, 4 Wire	Panel A.I.C. Rating: 10k Panel Voltage:	: TEMP-CONSTRUCTION : 208Y/120V, 3 Phase, 4 Wire Breaker Load Phase Load Breaker Load Breaker	ugs Only: No Main Breaker: 200A Panel A.I.C. Rating: 10k		
Description P Trip Code VA A B C VA Co	Trip P Description 10 10 10 10 10 10 10 1	P Trip Code VA A B C VA Code Trip P 1 BLOCK HEATER 1 30 H 2880 5760 2880 H 30 I TEMP GENE	NERATOR #2 BLOCK HEATER 2 1 SPARE NERATOR #2 BATTERY CHARGER 4 3 SPARE	P Trip Code VA A B C VA Code Trip P	Description		
	SPACE 8 7 SPARE SPACE 10 9 SPARE SPACE 12 11 SPARE SPACE 14 13 SPARE SPACE 15 SPARE	1 40 20 1 SPARE 1 40 20 1 SPARE 1 20 20 1 SPARE 1 20 20 1 SPARE 1 20 20 1 SPARE	8	1 20 40 2 1 20 40 2 1 20 25 :	SPARE 10 12 14 15 SPARE 16		
Total Connected Load 4035 4035 4035 (VA/PHAS N.E.C. LOAD SUMMARY ELECTRICAL DATA	PANEL INFORMATION N.E.		19 SPARE 21 SPARE 23 SPARE 23 SPARE 24 SPARE 25 SPARE 26 SPARE 27 SPARE 27 SPARE 28 SPARE 28 SPARE 29 SPARE	1 20 1 1 20 50 3 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 2	18 20 22 22 24		
Total Load Demand NEC Sizing Load Total Conn. Load: 12 KVA	Mounting: Surface Enclosure Type: Nema 1 Fed From: SEE SINGLE LINE DIAGRAM Equipment Ground Bus: Yes Bus Material: Copper Air Conditioning (AC) Heating (H)	1.00 NEC Sizing Load: 43 Am ps Mounting: 8	Surface Enclosure Type: Nema 1 SINGLE LINE DIA GRAM ound Bus: Yes Bus Material: Copper 27 SPARE 29 SPARE 31 SPARE	1 20 20 1 1 20 20 1 1 20 20 1 1 20 20 1 1 20 20 1	SPARE 26 SPARE 28 SPARE 30 SPARE 32 SPARE 34		
quipment (K) 1.00 Main Bus Size: 100 Amps ing (L) 1.00 PANEL LEGEND (ID) cles (REC) 1.00 ST - Shunt-Trip C.B.; G - GFI C.B. uous (C) 12105 1.00 LB - "Lock-On" C.B.	SQUARE D Lighting (L) Receptacles (REC) Existing (E) Continuous (C)	1.00 1.00 PANEL LEGEND (ID) 1.00 ST - Shunt-Trip C.B.; G - GFI C.B. LB - "Lock-On" C.B.	33 SPARE 35 SPARE 37 SPARE 37 SPARE 38 SPARE 39 SPARE 39 SPARE 41 SPARE 41 SPARE 38 SPARE 39 SPARE	1 20 20 1 1 20 20 1 1 20 20 1 20 1	SPARE 36 SPARE 38 SPARE 40 SPARE 42		
ous (NC) 1.00 "C1" - Contactor Designation Remodels N - Ne w C.B.; EX - Existing C.B. Totals: 12105 12105 VA	Refrigeration (REF)	7680 1.00 7680 "C1" - Contactor DesignationRemodels N - New C.B.; EX - Existing C.B. TEMPORARY GE	N.E	. [PANEL INFORMATION ation: SEE FLOOR PLANS		
			Air Conditioning (AC) Heating (H) Kitchen Equipment (K) Lighting (L)	1.00 NEC Sizing Load: KVA Fed For 1.00 NEC Sizing Load: Amps Equ	nting: Surface Enclosure Type: Nema 1 From: TEMPTRANSFORMER quipment Ground Bus: Yes Bus Material: Copper Isolated Ground Bus: No Neutral Size: 100%		
		WATER STORAGE TANK	Receptacles (REC) Existing (E) Continuous (C) Non-Continuous (NC) Refrigeration (REF)	1.00 PANEL LEGEND (ID) 1.00 ST - Shunt-Trip C.B.; G - GFI C.B. PANEL LEGEND (ID)	PANEL NOTES ELCONFIGURATION SHALLBE DETERMINED BY TRACTOR		
Panel Name: 03-35-01-1 (BLDG 35) Panel Voltage: 208Y/120V, 3 Phase, 4 Wire Breaker Load Phase Load	Breaker	208Y/120V, 3 Phase, 4 Wire Breaker Load Phase Load Breaker	Panel A.I.C. Rating: 10k	VA			
Description	Trip P 0 0 0 1 2 EX 1 1 1 1 1 1 1 1 1	1333 1693 360 REC 20 1 RECEPTAC	- WATER STORAGE TANK 4 CLES - WATER STORAGE TANK 6				
SPARE 1 20 SPARE 1 20 SPARE 1 20 HEATERS SOUTH 1 20 SATTERY LTS, FLUOR LTS. 1 20	20 1 HEATERS NORTH 10 EX 9 IMMERSION HEATER 11 20 1 NORTH CABINET - HEATERS - CONTROLS 14 EX 13 SPACE 15 SPACE	R FOR WATER STORAGE TANK 3 15 H 1333 5173 3840 H 40 1 HEAT TRACE 1 20 1 SPARE 1 20 20 1 SPARE 1 20 20 1 SPARE 2 20 1 SPARE	10				
ANS 1 20	SPACE 20	1 20 20 1 SPARE Total Connected Load 8407 2847 3027 (VA/PHASE) C. LOAD SUMMARY ELECTRICAL DATA	PANEL INFORMATION				
SPACE SPACE SPACE SPACE SPACE	SPACE 28	1.00 NEC Sizing Load: 14 KVA Fed From: SEE SIN 13740 1.00 13740 NEC Sizing Load: 40 Amps Equipment Grou	SUPPLANS SURFACE Enclosure Type: Nema 3R SINGLE LINE DIAGRAM SUNDER SUPPLEMENTAL SU				
SPACE Total Connected Load 360 (VA/PHAS N.E.C. LOAD SUMMARY ELECTRICAL DATA	PANEL INFORMATION Existing (E) Continuous (C)	180 1.00 180 Wall Bus Size. 123 Amps 360 1.00 360 PANEL LEGEND (ID) 1.00 ST - Shunt-Trip C.B.; G - GFI C.B. 1.00 LB - "Lock-On" C.B.	PANEL NOTES I SPD				
ad Types and Codes (VA) Demand (VA) NEC Sizing Load Total Conn. Load: 0 KVA Factor (VA) Total Conn. Load: 1 Amps ir Conditioning (AC) 1.00 NEC Sizing Load: 0 KVA Heating (H) 1.00 NEC Sizing Load: 1 Amps	Mounting: Surface Enclosure Type: Nema 1 Fed From: SEE SINGLE LINE DIA GRAM Equipment Ground Bus: Yes Bus Material: Copper	1.00 1.00 1.00 1.00 1.0	HEAT TRACE PANEL SHALL BE TYPE				
Kitchen Equipment (K) 1.00 Lighting (L) 1.00 Receptacles (REC) 1.00 Existing (E) 1.00 Continuous (C) 1.00 ST - Shunt-Trip C.B.; G - GFI C.B. LB - "Lock-On" C.B.	SQUARE D Is olated Ground Bus: No Neutral Size: 100% PANEL NOTES SQUARE D						
Non-Continuous (NC) 360 1.00 360 "C1" - Contactor DesignationRemodels Refrigeration (REF) 1.00 N - New C.B.; EX - Existing C.B.	HCN, I-LINE, 23325-10						
NTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE				Drawing Title	Phase	Project Title	Project Number
TTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE ATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE	HAZARDOUS MATERIALS BBETT & ASSOCIATES, INC. FIRE SUPPRESSION KOFFEL ASSOCIATES		MILLER-REMICK LLC PROFESSIONAL ENGINEER Office of Construction	ELECTRICAL PANELBOARD SCHEDULES	100% BID SET	INSTALL NEW BOILERS IN	589A7-18-3 Building Number
M M	SBETT & ASSOCIATES, INC. N. STREET, STONEHAM, MA 02180 OUT OF THE DARK DRIVE OUT OOD OO		and Facilities			II ,	
M 105 CENT	AL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050 CIVIL / STRUCTURAL AL ENGINEERING CONSULTANTS, P.A. JTH TOPEKA, WICHITA, KS 67202 8815 CENTRE PARK DRIVE, SUITE 200, CC PHONE: (410)750-2246 ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXI	M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH	and Facilities Management	Approved: Project Director		NOBELLI G. BOLL WILLIAM GENTLE	Drawing Number
PROFESSION PROFESSION 303 SC	AL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050 CIVIL / STRUCTURAL AL ENGINEERING CONSULTANTS, P.A. 8815 CENTRE PARK DRIVE, SUITE 200, CC PHONE: (410)750-2246 ELECTRONIC SECURITY MAGNA ENGINEERS	M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002 MR PROJECT NO: 0499-0121			FULLY SPRINKLERED	Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS Sue Date Checked ARH ARH	Drawing Number E-702

- 1. REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- 2. REFER TO SHEET E-601 FOR DEMOLITION SINGLE LINE DIAGRAM.
- 3. SCHEDULES SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY.4. LOADS SHOWN ARE ESTIMATES BASED ON BREAKER SIZE.

				11-EE-4462 7 Phase, 3 Wire	Existing Switchboard	Main Lu	gs Only: P	Main Br anel A.I.C. F		800
Ckt.#	Poles	Frame	Trip	ID	Description		Connect	ed Loads	Dem a	nd Loads
CKI.#	roles	Frame	шр	1.5	Description		KVA	Amps	KVA	Amps
1	3	225	225		SPARE					
2	3	225	225		PANEL G2 BLDG 13		75	180	52	126
3	3	225	225		SPARE					
4	3	400	400		PANEL A BLDG 13		133	320	93	224
5	3	225	100		COMPRESSOR BLDG 10		33	80	23	56
6	3	225	225		SPARE					
7	3	400	400		BLDG 16		133	320	93	224
8	3	225	225		SPARE					
		P	ANEL NOTE	S	ELECTRICAL DATA		0.777	EL INFORMATI	ON	
E	XISTING	TO REMAI	N		Total Conn. Load: 900 A	mps Mount	rom: SWITCHGE	Enclosu AR 53 VIA 300	KVA TFR	Nema 1
					NEC Sizing Load: 630 A		ent Ground Bus ted Ground Bus	***************************************	Material: tral Size:	Copper 100%
					PANEL LEGEND (ID) ST - Shunt-Trip C.B.; G - GFI C.I LB - "Lock-On" C.B. "C1" - Contactor DesignationRemodels N - New C.B.; EX - Existing C.B	m ps	led Ground Bus	. NO Neu	u ai 3128.	10070

		Panel Name: Panel Voltage:								Dem	olish F	Panel			Mair	ı Lu	gs Only: Main Breaker: 225 Panel A.I.C. Rating: 22k		
Т	#		2.156			Bre	aker	L	oad		Phase		Lo	ad	Brea	ker	12.00	#	ŧ
1	Ckt #		Description			Р	Trip	Code	VA	Α	В	С	VA	Code	Trip	Р	Description	Ckt #	ś
1	1	1.005.00	A CONTRACTOR	. wateles						2660			2660				The state of the state of	2	2
I	3	MAIN SUB STA	TION 240V PA	ANEL (SPAI	RE)	3	50	103			2660		2660	C	60	3	BOILER 1	4	
4	5					-			000.0	5004		2660	2660					6	
ŀ	7		SUMP PUMP			3	20	С	886.8 886.8	5321	5321		4434 4434	С	100	3	PANEL 798X	10	
ŀ	11		SUMP FUMP			3	20	C	886.8		3321	5321	4434	-	100	3	PAINEL 190A	12	
+	13								886.8	1774		3021	886.8	-				14	
ł	15	NO	RTH OFFICE A	AC		3	20	С	886.8		1774		886.8	С	20	3	EXHAUST FAN		
	17								886.8			1774	886.8					16 18	8
†	19					1			886.8	3547			2660	-		Н		20	0
	21	SOL	JTH OFFICE A	AC		3	20	С	886.8		3547		2660	С	60	3	BOILER 2	22	2
	23							131	8.688			3547	2660					24	
I	25								1330	2217			886.8					26	6
	27	OUTS	SIDE SUMP P	JMP		3	30	С	1330		2217		886.8	С	20	3	VFD FOR ?	28 30	8
	29								1330			2217	886.8						
	31	TD	A NOTED DU	ID.			00		1330	2098	0000		768	C	20	2		34	
	33 35	IR	ANSFER PUN	IP		3	30	С	1330 1330		2098	1330	768				SPACE	36	
- 1	37					_		С	886.8	3547		1330	2660				STACE	38	
	39		RO			3	20	C	886.8	0041	3547		2660	С	60	3	BOILER 3	100	
	41		377					C	886.8			3547	2660					40	2
						Total	Con	necte	d Load	21165	21165	20397	(VA/Pt	HASE)					_
Γ		N.E.	C. LOAD SU	MMARY				Ī			TRICAL			ī			PANEL INFORMATION		
Ĭ			Total Load	Demand	NEC	Sizing	Load	i	To	tal Conr	ı. Load:	63	KVA	1	L	ocat	ion: BUILDING 13		
	Loa	d Types and Codes	(VA)	Factor	,,_,	(VA)					. Load:					ount	***************************************	a 1	,,,,,,,
L	Air	Conditioning (AC)		1.00				1	NE	C Sizin	g Load:	63	KVA		Fe	d Fr	om: SWITCHBOARD MP-11 11-EE-44627	•••••	ww
		Heating (H)		1.00				*			g Load:						ipment Ground Bus: Yes Bus Material: Copp	er	***
	Kito	hen Equipment (K)		1.00				•••									solated Ground Bus: No Neutral Size: 100		
		Lighting (L)		1.00						Main Bu	ıs Size:	225	Amps						
	R	eceptacles (REC)		1.00						PANE	L LEGE	ND (ID)					PANEL NOTES		
		Existing (E)		1.00	***************************************				ST -	- Shunt-1	Trip C.B.;	G-GFI	C.B.	1	SEE	RVIC	CE#1		-
		Continuous (C)	62726	1.00		62726			25.0	LB - "	Lock-Or	" C.B.			JLI	VIC	-L 11 1		
		n-Continuous (NC)		1.00					"(ntactor D Remodel		on						
	Re	efrigeration (REF)		1.00					N -		B.; EX - I		C.B.						
	В	ec. Load Totals:	62726			62726		VA											

		Panel Name: Panel Voltage:								Dem	olish P	anel			IVICALIT	Lu	gs Only: Yes Main Breaker: Panel Al.C. Rating:		
D	Ckt #		Description			Bre	aker	L	oad		Phase		Loa	d	Brea	ker	Description	##	
	Š		Jescription			P	Trip	Code	VA	Α	В	C	VA	Code	Trip	P	beactipuon	C S	
	1								2217	2217			[E=]					2	4
	3		BOILER			3	50	С	2217		2217				50	3	SPARE	4	_
	5								2217			2217						6	_
	7		SPARE			3	30								20	3	SPARE	8	_
	11		SPARE			3	30								20	3	SPARE	1:	
	13					+				1920			1920		77.5			14	-
7	15					3	30			1020	1920		1920	C	50	2	AIR COMPRESSOR	10	
	17					100							1				SPACE	18	_
		MAL	C. LOAD SU		I ME C C	- 1	Lond	L T	Ť		TRICAL		MANA		L .		PANEL INFORMATION		
	Load	Types and Codes	Total Load (VA)	Demand Factor	NEC S	izing VA)					. Load:		KVA			ocati ounti	on: BUILDING13 ing: Surface Enclosure Type: Ne	ma 1	
	A 2-	04%1 (4.0)	(***)		1 '	* / 4/		1									***************************************	1110 1	
	Air	Conditioning (AC) Heating (H)		1.00							g Load: g Load:						om: PANEL G2 ipment Ground Bus: Yes Bus Material: Co	pper	
	Kito	hen Equipment (K)		1.00														00%	
	10.000	Lighting (L)		1.00				-		Main Bu	s Size:	100	Amps			-			
	Re	eceptacles (REC)		1.00						PANE	L LEGEN	ID (ID)		1			PANEL NOTES		7
		Existing (E)		1.00					ST -	Shunt-T	rip C.B.;	G - GFI	C.B.						1
		Continuous (C)	10491	1.00	1	0491					Lock-On								
		n-Continuous (NC)		1.00					-(tactor De Remodels		ın						
	Re	frigeration (REF)		1.00	·				N -		3.; EX - E		Э.В.						
	Fle	ec. Load Totals:	10491		1	0491		VA											

		Panel Voltage:	240V, 3 F	Phase, 3	Wire					Demo	olish P	anel				,	gs Only: Yes Main Breaker: Panel A.I.C. Rating:	
	Ckt#		Description			Bre	eaker	L	oad		Phase		Los	ad	Breal	ker	Description	Ckt#
	č		ne scrib tion			P	Trip	Code	VA	Α	В	С	VA	Code	Trip	P	Description	CK
I	1					3	165		21824	21824							California	2
l	3	BLD	OG 20, PANEL	. D		3	225		21824		21824						SPACE	4
1	5						= 1		21824			21824						6
ŀ	7		20/32										1 0 1				20,720	8
ŀ	9		SPACE											1			SPACE	10
4	11								19399	19399								12
ŀ	15	75KVA TRANSFOR	MER (240V-2	208/120) (TR	RAILER	3	200	С	19399	19399	19399	-					SPACE	16
L	17		PANEL)				200	-	19399		19399	19399		1			SPACE	18
	Load	Types and Codes	Total Load (VA)	Demand Factor	NEC Si	zing VA)				tal Conn tal Conn			KVA Amps			o catio o untir	on: BUILDING 13 ng: Surface Enclosure Type: Nema	1
L	Δir	Conditioning (AC)		1.00						C Sizing					Fe	d Ern	om: SWITCHBOARD MP-11 11-EE-44627	
	7.11	Heating (H)		1.00	·			•		C Sizing							pment Ground Bus: Yes Bus Material: Coppe	er
	Kitc	hen Equipment (K)		1.00	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												olated Ground Bus: No Neutral Size: 100%	
		Lighting (L)		1.00				•		Main Bu	s Size:	400	Amps					
	Re	eceptacles (REC)	***************************************	1.00						PANE	L LEGEN	ID (ID)					PANEL NOTES	
		Existing (E)		1.00					ST-	-Shunt-T			C.B.		SEF	RVIC	E#2	
		Continuous (C)	123668	1.00	12	366	8				Lock-On'				200	9566		
		n-Continuous (NC)		1.00					3	C1" - Con F	tactor De Remo dels		in.					
	Re	efrigeration (REF)		1.00				•	N -	New C. B	3.; EX - E	xisting (.B.					
	Ele	ec. Load Totals:	123668		12	366	8	VA										

	Panel Name: Panel Voltage:			se, 4	Wire	9			Dem	olish P	anel			Main	ı Lu	igs Only: Main Breaker: 20 Panel A.I.C. Rating:		
CK #		Description			Bre	aker	L	oad		Phase		Loa	ad	Brea	ker	Description	# CK	Ī
ŏ		Description			P	Trip	Code	VA	Α	В	С	VA	Code	Trip	P	Description	ŏ	1
3		GI CONN.			2	100	С	6656 6656	6656	6656				40	2	OFF	4	_
5 7		GI CONN.			2	100	С	6656 6656	6656		6656			30	2	OFF	6 8	
9		ŒIN (OFF)			2	60				6656	6656	6656 6656	С	100	2	FLOY D	10 12	
13 15		"SHELLEY"			2	50	С	3328 3328	3328	3328				30	2	OFF	14 16	5
17	OFF				1	20								20		OFF	18	
19					1	20	C	1536	1536					20		OFF	20	
	OFF				1	20								20		OFF	22	
	OFF				1	20								20		OFF	24	
	OFF				1	20) = 11		20	100	OFF	26	
	OFF				1	20								20		OFF	28	
	OFF				1	20								20		OFF	30	
	OFF				1	20								20		OFF	32	
	OFF				1	20								20		OFF	34	
	OFF OFF				1	20			4506			4500	_	20	1	OFF	36	
	OFF				1	20			1536			1536	С	20	1	OFF		
39 41		OFF			2	60								20		OFF	40 42	
	N.E	E.C. LOAD SUI	MMARY		Total	Conr	recte	d Load	19712 ELEC	16640 TRICAL		(VA/P	ASE)			PANEL INFORMATION		
	J.T	Total Load	Demand	NEC	Siz ing	Load	Ì	Tot	tal Conn	. Load:	50	KVA		L	ocat	ion: CONSTRUCTION TRAILERS		
LO	ad Types and Codes	(VA)	Factor		(VA)		-	Tot	tal Conn	. Load:	138	Amps		M	ount	ing: Surface Enclosure Type: Ner	na 3R	
A	r Conditioning (AC)		1.00					NE	C Sizing	g Load:	50	KVA		Fe	d Fr	om PANEL A VIA 75KV A 240V-208/120V		
	Heating (H)		1.00						C Sizing						Equ	ipment Ground Bus: Yes Bus Material: Co	pper	
Kit	chen Equipment (K)		1.00						Main Du	in Ciros	າາະ	Amno			Is	solated Ground Bus: No Neutral Size: 10	00%	
	Lighting (L)		1.00						Main Bu	is size:	223	Amps						
F	Receptacles (REC)		1.00						PANE	L LEGEN	ND (ID)					PANEL NOTES		İ
	Existing (E)		1.00					ST -	Shunt-T			C.B.						
	Continuous (C)	49664	1.00		49664			**/	" - LB C1" - Cor	Lock-On		20						
	on-Continuous (NC)		1.00				à.=	,		Remodels		л						
F	Refrigeration (REF)		1.00					N-	New C.E			CB.						
F	lec. Load Totals:	49664			49664		VA											

	Panel Name: Panel Voltage:			se, 4 W	ire				Dem	olish F	anel			IVIAII	L	ugs Only: Main Breaker: 200 Panel A.I.C. Rating:		
1	ŧ	D		E	Break	cer	Lo	oad		Phase		Loa	ıd	Brea	ker	D	#	Γ.
7 170	5	Description			PT	rip	Code	VA	Α	В	С	VA	Code	Trip	Р	Description	Ckt #	1
		GI CONN.			2 1	00	С	6656	6656					40	2	OFF	2	
_	3	0.001				-		6656		6656	2252				_		4	
_	7	GI CONN.			2 1	00	C	6656 6656	6656		6656			30	2	OFF	8	
_	9							0000	0000	6656		6656		200		Can Carrie	10	H
1		EETN (OFF)			2 6	60					6656	6656	C	100	2	FLOYD	12	
1		"SHELLEY"	, -		2 5	50	С	3328	3328					30	2	OFF	14	
	5	OHLLLLI						3328		3328							16	
_	7 OFF			\rightarrow		20	^	4500	4500					20		OFF	18	
	9 1 OFF					20	С	1536	1536					20		OFF OFF	20	
	3 OFF					20								20		OFF	24	
	5 OFF				-	20						-		20		OFF	26	
	7 OFF				_	20								20		OFF	28	
2	9 OFF				1 2	20								20	1	OFF	30	Г
	1 OFF				1 2	20								20		OFF	32	
	3 OFF					20						1		20		OFF	34	
	5 OFF					20			4500			4500	-	20		OFF	36	
	7 OFF				1 2	20			1536			1536	С	20	1	OFF	38	
3	9 1	OFF			2 6	60								20		OFF	40 42	
				То	tal C	onn	ected	d Load	19712	16640	13312	(VA/PH	ASE)	N. P. W.		1011	72	
	N.E	.C. LOAD SU	MMARY							TRICAL						PANEL INFORMATION		
Ī	and Tunes and Codes	Total Load	Demand	NEC Sizi	ng Lo	ad		Tot	tal Conr	n. Load:	50	KVA		L	ocat	tion: CONSTRUCTION TRAILERS		
_	oad Types and Codes	(VA)	Factor	(V	۹)			Tot	tal Conr	n. Load:	138	Amps		M	ount	ting: Surface Enclosure Type: Nema	3R	
	Air Conditioning (AC)		1.00					NE	C Sizin	g Load:	50	KVA		Fe	d Fr	rom: PANEL A VIA 75KVA 240V-208/120V		
	Heating (H)	***************************************	1.00	***************************************		**********		NE	C Sizin	g Load:	138	Amps				uipment Ground Bus: Yes Bus Material: Coppe		
1	Kitchen Equipment (K)		1.00						Main Bu	us Size:	225	Amps			ł	solated Ground Bus: No Neutral Size: 1009	Ó	
	Lighting (L)		1.00					-			***************************************							т
	Receptacles (REC)		1.00				- 18			1 LEGE						PANEL NOTES		4
	Existing (E) Continuous (C)	49664	1.00	496	64			ST -		Frip C.B.; "Lock-Or		C.B.						
	Non-Continuous (NC)	T J U U T	1.00	430				"(C1" - Cor	ntactor D	es ignatio	on						
	Refrigeration (REF)	······	1.00							Remodel: B.; EX - E	5-							
	Bec. Load Totals:	49664		496	64	7	VA	IN -	New C.I	D., LA - E	Abully (J.D.						
	Dec. Load Totals:	49004		490	04		VA											1

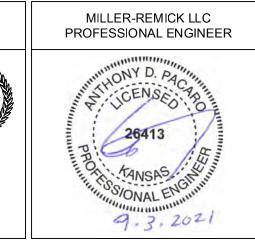
	DRAWING SHALL NOT BE USED FOR WITHOUT THE SEAL AND SIGNA PROFESSIONAL ENGINEER.		CONSULTANTS	
			HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050	FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)750-2246
			CIVIL / STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2691	ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)309-2990
NO.	DESCRIPTION	DATE	ARCHITECTURAL OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	PHYSICAL SECURITY FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (502)836-4232

one eighth inch = one foot

0 4 8 16

VA FORM 08-6231





Co and	Office of onstruction d Facilities inagement
VA	U.S. Department of Veterans Affai

n s	Drawing Title ELECTRICAL DEMOLITION PANELBOARD SCHEDULES (240V)	Phase 100% BID SET	Project Title INSTALL NEW E BUILDING 13	BOILERS IN		Project Number 589A7-18-302 Building Number
nent Affairs	Approved: Project Director	FULLY SPRINKLERED	Location ROBERT J. D. WICHITA, KA		Drawn ARH	Drawing Number E-703

- 1. REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- 2. REFER TO SHEET E-601 FOR DEMOLITION SINGLE LINE DIAGRAM.
- 3. SCHEDULES SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY.4. LOADS SHOWN ARE ESTIMATES BASED ON BREAKER SIZE.

		I Name: I Voltage:			se, 4 Wire	Existing Switchboard	Ivia	n Lugs Only:	Main Br anel A.I.C. F		800
Ckt.#	Poles	Frame	Teles	ID		Description		Connect	ed Loads	De m an	id Loads
CKL.#	roles	rianie	Trip	ID		Description		KVA	Am ps	KVA	Amps
1	2	100	100			LOAD		29	80	20	56
2	3	400	400			SPARE					
3	3	225	200			GARAGE BLDG 10		58	160	40	112
4	3	225	125			SPARE					
5	2	100	100			LOAD		29	80	20	56
6	3	400	400			BLDG 13 (PANEL G)		115	320	81	224
7	2	100	100			LAUNDRY BLDG 16		29	80	20	56
8	3					SPACE					
9	3	225	125			SPARE					
10						SPACE					
11	3	225	125			BLDG 11		36	100	25	70
12											
		PA	NEL NOTE	S		ELECTRICAL DATA		PAN	EL INFORMATI	ON	
						Total Conn. Load: 295 KVA		Location: BUILDING 1	1		
						Total Conn. Load: 820 Amp	S	Mounting:	Enclosu	re Type: N	Vema 1
						NEC Sizing Load: 207 KVA		Fed From: SWITCHGE			
						NEC Sizing Load: 574 Amp	s E	quipment Ground Bus	***************************************		Copper
					2	Main Bus Size: 800 Amp	S	Isolated Ground Bus	. No Neut	ral Size:	100%
						PANEL LEGEND (ID)					
						ST - Shunt-Trip C.B.; G - GFI C.B. LB - "Lock-On" C.B. "C1" - Contactor DesignationRemodels N - New C.B.; EX - Existing C.B.					

		nel Name: anel Voltage:				е			Dem	olish F	Panel					ugs Only: Yes Main Breaker: Panel A.I.C. Rating:
	#		Description		Br	eaker	L	oad	1	Phase		Loa	ad	Brea	ker	Description #
i	Š		Description		Р	Trip	Code	VA	Α	В	С	VA	Code	Trip	P	Se seripaori
	1	FFFD0 FF70	00 N D D0 44	O (DANE) D		0.05		8646	17293	47000		8646		005		2
	5	FEEDS EE/98	88 IN BLDG 13	3 (PANEL B)	225	С	8646 8646		17293	17293	8646 8646	С	225	3	BLDG 20 PANEL C 4
_	7							7686	7686		17293	0040				8
_	9	75KVA TRAN		208-480/277	')	200	С	7686	7000	7686						SPACE 10
	11		03-13-02-1					7686		, , , ,	7686					12
•	13						С	8646	16332			7686				14
•	15	Bl	DG 12 PANE	LI		225	С	8646		16332		7686	С	200	3	FEEDS EE8007 IN BLDG 16 16
•	17						C	8646			16332	7686				18
		N.E	Total Load	MMARY Demand	NEC Sizing	Lood		To	ELEC tal Conr	TRICAL		KVA			onat	PANEL INFORMATION tion: BUILDING 13
l	_oad T	pes and Codes	(VA)	Factor	(VA)				tal Conr			Am ps			ount	
	Air Co	nditioning (AC)		1.00				N	C Sizin	g Load:	124	KVA		Fe	d Fr	rom: SWITCHBOARD ML-11 11-EE-44626
		eating (H)	·····	1.00		······		N	C Sizin	g Load:	344	Am ps			Equ	uipment Ground Bus: Yes Bus Material: Copper
	Kitche	Equipment (K)		1.00	***************************************				Main Bu	ie Size:	400	Amne			k	solated Ground Bus: No Neutral Size: 100%
	L	ighting (L)	***************************************	1.00					Walli Bu	is size.	400	Alli þs				***************************************
	Rece	ptacles (REC)		1.00					PANE	L LEGE	ND (ID)					PANEL NOTES
		xisting (E)		1.00				ST -	Shunt-T			C.B.		SEF	RVIC	CE#3
		ntinuous (C)	123932	1.00	12393	2		117		Lock-On				7830		
		ontinuous (NC) geration (REF)		1.00					C1" - Cor l	Remodel		ш				
		TOTATION (DEE)		7 (1(1					New C.E					ı		

		Panel Name: Panel Voltage:			se, 4	Wire	Э			Dem	olish F	Panel			Main	L	ugs Only: Yes Main Breaker: Panel A.I.C. Rating:	
T	#					Breaker		L	oad		Phase		Loa	ad	Brea	ker		1
1	Ckt #	7.	Description			Р	Trip	Code	VA	Α	В	С	VA	Code	Trip	Р	Description	
7	1	CATV				1	20	С	768	2689			1921					
7	3					1	20	С	768		2689		1921	С	50	3	DA TANK	
1	5					7			3072			4993	1921				17077777	
Ì	7					3	80	С	3072	4225			1153					
ł	9						12.0		3072		4225		1153	С	30	3	WATER STORAGE TANK	1
+		FIREALARM				1	20	С	768			1921	1153			5-	10.00-00.010.00-00.001	1
_		MED GAS				1	20	C	768	1537		1021	768.6	С	20	1	WATER STORAGE TANK	1
-1		WATER SOFTENER,	4 RFC			1	20	C	768	.501	1537		768.6	C	20		CATWALKLIGHT	1
_		OUTSIDE DIESEL PUN				1	20	C	768			1921	1153	_		-		1
		CONTROL ROOM AR				1	20	C	768	1921		1321	1153	С	30	3	FLOOD PUMP	2
_		BREAK ROOM REC/ I				1	20	C	768	1321	1921		1153		30	3	I EOOD I OWII	2
		BREAK ROOM REC	DAWIFER WITK			1	20	C	768		1321	1344	576.4			_		2
_	100	CONTROL ROOM RE	0			1	20	C	768	1344		1344	576.4	С	15	3	13-BC-1	2
_		CONTROL ROOM RE				1	20		768	1344	1344		576.4		13	3	13-80-1	2
_						1		С			1344	2112						3
_		AUTO DOOR				1	20	С	768	0442		2113	1345		35	2	42 (1) 4	
_		13-P1				1	20	С	768	2113	0440		1345	С	35	3	13-CU-1	3
		EM EXIT LIGHTS	ED			1	20	С	768		2113	7402	1345					
_		GFCI REC S.E. CORN	EK			1	20	С	768	0045		7493	6725	_	400		DANEL HER 7005	3
L	37	100		_					1920	8645	0045		6725	С	100	3	PANEL "F" 7985	3
	39	VVE	LDING OUTLE	-1		3	50	С	1920		8645		6725	_	0.0			4
1	41								1920	00.474	00474	2689	768.6	C	20	1		4
Г			0.1040.00	4 4 4 DV	Total Connected Load](VA/PF	IASE) I			DANE INFORMATION	
		N.E.	.C. LOAD SU	MMARY						HE	TRICAL	DATA					PA NEL INFORM A TION	
	Loa	d Types and Codes	Total Load	Demand	NEC	Sizing				tal Conr			KVA				tion: BUILDING 13	
	Loc	a Types and codes	(VA)	Factor		(VA)			To	tal Conr	i. Load:	187	Amps		Mo	ount	ting: Surface Enclosure Type: Ne	ema 1
	Ai	r Conditioning (AC)		1.00					NE	EC Sizin	g Load:	67	KVA		Fe	d Fr	rom: PANEL G	
		Heating (H)		1.00	***************************************			-	NE	EC Sizin	g Load:	187	Amps			Equ	uipment Ground Bus: Yes Bus Material: Co	pper
	Kit	chen Equipment (K)		1.00				•••				***************************************	•••					00%
		Lighting (L)		1.00	***************************************			w-		Main Bu	ıs Size:	400	Amps				***************************************	
	R	deceptacles (REC)		1.00						PANE	L LEGE	ND (ID)					PANEL NOTES	
		Existing (E)		1.00					CT				CB					
		Continuous (C)	67422	1.00		67422		m	51 -	- Shunt-1	rip C.B.; 'Lock-On		C.B.					
	No	on-Continuous (NC)	01122	1.00	***************************************	J. 122		w	"(C1" - Cor			on					
		efrigeration (REF)		1.00							Remodels	S						
		gorddoll (ND)		1.00				-	N -	New C.	3.; EX - E	x isting	C.B.					
	E	lec. Load Totals:	67422			67422	2	VA										

one eighth inch = one foot

0 4 8 16

	40.000.000	75555	"F" 13-1 208Y/120		se, 4	4 Wir	е			Dem	olish P	anel			IVIAII	LU	ugs Only: Yes Main Breaker: Panel A.I.C. Rating:	*******	
5	#		Description			Breaker		L	oad		Phase		Loa	ad	Brea	ker	Description		
1	# Kt		Description			Р	Trip	Code	VA	Α	В	C	VA	Code	Trip	P	Description	Ckt #	
T	1 SOUTH SHO	OPLIGHT	& REC			1	20	С	768	1536			768	C	20	1	SOUTH OFFICE LIGHT	2	T
	3 SPARE					1	20	С			768		768	С	20		20 AMP	4	
	5 OUTLETS -		VALL			1	20	С	768			1536	768	C	20		NORTH OFFICE OUTLET	6	
_	7 TOP LIGHTS	3				1	20	С	768	1536			768	С	20		NORTH OFFICE OUTLET	8	
	9 PIT LIGHTS					1	20	С	768		1536		768	C	20		CRANE OUTLET	10	_
	11 NORTH LIG	HTS & OL	TLETS			1	20	С	768			1536	768	С	20	1	GENERATOR HEATER	12	2
	13 SPARE					1	20	С	768	1536			768	С	20	1		14	1
	15 BOILER #4		MP			1	20	С	768		1536		768	С	20		BOILER#1	16	
_	17 FUEL TANK					1		С	768			1536	768	С	20		BOILER#2	18	
	19 TUNNEL LIC					1	20	С	768	1536			768	С	20	1	BOILER#3	20	
_	21 EAST OUTS					1	20	С	768		1536		768	С	20		INSTRUMENT PANEL	22	
	23 BOILER#4					1	20	С	768			1536	768	С	20	1	INSTRUMENT PANEL	24	
_	25 OUTLET SH					1	20	С	768	1536			768	С	20		LIGHTS MAIN FLOOR	26	ī
	27 OIL PIT SUN	/P + LIGH	TS & REC GA	S PUMP		1	20	С	768		1536		768	С	20	1	"M" LIGHTS	28	
_	29	EVE	WASH HEAT	FR		2	20	С	665.6			1664	998.4	С	30	2		30	
	31		WAOITIBAT	Liv			20		665.6	1664			998.4		50			32	-
T	33 RECEAST	WALL				1	20	С	768		1536		768	C	20	1	TO SPACE	34	T
T	35 TO SPACE	#3				1	20	С	768			1536	768	С	20	1	TO SPACE	36	1
_	TO SPACE					1	20	С	768	1536			768	С	20		TO SPACE	38	I
_	TO SPACE					1	20	С	768		1536		768	С	20		TO SPACE	40	_
	41 TO SPACE	#6				1	20	C	768			1536	768	С	20	1	TO SPACE	42	2
						Tota	Con	ne cte	d Load	10880		10880	(VA/PH	IASE)					_
		N.E	.C. LOAD SU	MMARY]			TRICAL	11.7					PANEL INFORM A TION		
	Load Types an	d Codes	Total Load	Demand	NEC	Sizing				tal Conr			KVA				tion: BUILDING 13		
	100000000000000000000000000000000000000		(VA)	Factor		(VA)			To	tal Conr	i. Load:	88	Amps		M	ount	ing: Surface Enclosure Type: Nem	a 1	
	Air Conditionin	g (AC)		1.00					NE	EC Sizin	g Load:	32	KVA		Fe	d Fr	rom: PANEL G		
	Heating (H)		1.00					N	EC Sizin	g Load:	88	Amps			Equ	ipment Ground Bus: Yes Bus Material: Cop	er	
	Kitchen Equipn	nent (K)		1.00	***************************************			_		Main Bu	io Cizo:	225	Am no			k	solated Ground Bus: No Neutral Size: 100	%	
	Lighting (L)		1.00						W all D	15 3126.	223	Amps				***************************************		
	Receptacles	(REC)		1.00						PANE	L LEGE	ND (ID)					PANEL NOTES		
	Existing (E)		1.00					ST	- Shunt-T	rip C.B.;	G - GFI	C.B.						
	Continuous	(C)	31744	1.00		31744	1	_		LB - "	Lock-On	" C.B.							
	Non-Continuo			1.00					"(C1" - Cor	ntactor D Remodel:	esignatio	on						
	Refrigeration	(REF)		1.00					N -	New C.E			C.B.						
	Elec. Load T	otals:	31744			3174	4	VA				- 1							
		177						1						1				—	_

∐ ∐ Wichita B		RAWING SHALL NOT BE USED FOR AN' THOUT THE SEAL AND SIGNATURE PROFESSIONAL ENGINEER.		CONSULTANTS		ENGINEER OF RECORD	MILLER-REMICK LLC PROFESSIONAL ENGINEER	Office of	Drawing Title ELECTRICAL	Phase	Project Title INSTALL NEW	BOILERS IN	Pr	Project Number 589A7-18-302
9-0121				HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050	FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)750-2246	Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned	WILLIAM ONY D. AZCHILLA	Construction and Facilities	DEMOLITION PANELBOARD SCHEDULES (208V)	100% BID SET	BUILDING 13		Bu	Building Number
DVA\049				CIVIL / STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2691	ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)309-2990	Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034	26413 ### ### #############################	Management	Approved: Project Director		Location ROBERT J. WICHITA, K		. CENTER Dr	
P:\0499_[NO.	DESCRIPTION	DATE	ARCHITECTURAL OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	PHYSICAL SECURITY FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (502)836-4232	PHONE: (856)429-4000 FAX: (856)429-5002 MR PROJECT NO: 0499-0121	9-3. 2021	U.S. Department of Veterans Affairs	s	FULLY SPRINKLERED	Issue Date 2021-09-03	Checked Dra	ARH	E-704
	VA FORM 08-6231	1		2	3 4	5		6	7	8	9		10	0

- 1. REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- 2. LIGHTING CONTROLS: REFER TO LIGHTING CONTROLS SPECIFICATION SECTION 260923 FOR CONTROL DEVICE AND SYSTEM SPECIFICATIONS. A DISTRIBUTIVE RELAY TYPE SYSTEM SHALL BE PROVIDED FOR THE ENTIRE SYSTEM WITH POWER PACKS AND LOW VOLTAGE CONTROL DEVICES.

					LAMP	-				BASIS	OF DESIGN	5.7.0
TYPE	DIMENSIONS	DESCRIPTION	MOUNTING	TYPE	LUMENS	COLOR	WATTAGE	VOLTAGE	DRIVER	MANUFACTURER	SERIES	REMARKS
A40		INDUSTRIAL STRIP LED FIXTURE WITH WIREGUARD, FLAT DIFFUSE LENS, 80 CRI, WHITE FINISH, LISTED FOR HIGH AMBIENT ENVIRONMENT 122°F/50°C. PROVIDE WITH CHAIN HANGERS.	PENDANT	LED	4000	4000	28	MVOLT	0-10V	LITHONIA LIGHTING	CLX	
A40E	1' Y //'	INDUSTRIAL STRIP LED FIXTURE WITH WIREGUARD, FLAT DIFFUSE LENS, 80 CRI, WHITE FINISH. PROVIDE WITH CHAIN HANGERS AND BATTERY PACK.	PENDANT	LED	4000	4000	28	MVOLT	0-10V	LITHONIA LIGHTING	CLX	
A40AE		INDUSTRIAL STRIP LED FIXTURE WITH FLAT DIFFUSE LENS, 80 CRI, WHITE FINISH, LISTED FOR HIGH AMBIENT ENVIRONMENT 122°F/50°C. PROVIDE WITH ANGLE BRACKETS AND BATTERY PACK	WALL	LED	4000	4000	28	MVOLT	0-10V	LITHONIA LIGHTING	CLX	MOUNT @ 9' AFF [2740
A40S	1' X 4' [305 X 1219]	SAME AS TYPE 'A40' EXCEPT SURFACE-MOUNTED	SURFACE	LED	4000	4000	28	MVOLT	0-10V	LITHONIA LIGHTING	CLX	
A50	1' X 4' [305 X 1219]	SAME AS TYPE 'A40' EXCEPT AS 5000 LUMENS	PENDANT	LED	5000	4000	35	MVOLT	0-10V	LITHONIA LIGHTING	CLX	
A50E	1' X 4' [305 X 1219]	SAME AS TYPE 'A40E' EXCEPT AS 5000 LUMENS	PENDANT	LED	5000	4000	35	MVOLT	0-10V	LITHONIA LIGHTING	CLX	
A70	1' X 4' [305 X 1219]	SAME AS TYPE 'A40' EXCEPT AS 7000 LUMENS	PENDANT	LED	7000	4000	49	MVOLT	0-10V	LITHONIA LIGHTING	CLX	
A70E	1' X 4' [305 X 1219]	SAME AS TYPE 'A40E' EXCEPT AS 7000 LUMENS	PENDANT	LED	7000	4000	49	MVOLT	0-10V	LITHONIA LIGHTING	CLX	
B12	12" X 14" [305 X 356]	HIGH BAY LED FIXTURE WITH GLARE CONTROL LENS, STANDARD EFFICIENCY, MEDIUM DISTRIBUION, 80CRI, L ISTED FOR HIGH AMBIENT ENVIRONMENT 131°F/55°C. PROVIDE WITH PAIR OF 36" [914] HANGER CHAINS	PENDANT	LED	12000	4000	88	MVOLT	0-10V	LITHONIA LIGHTING	COMPACT PRO	
C20	2' X 2' [610 X 610]	LED TROFFER WITH STEPPED DIFFUSER	RECESSED	LED	2000	3500	18	MVOLT	0-10V 10% DIM	LITHONIA LIGHTING	2ALL	
C20E	2' X 2' [610 X 610]	SAME AS TYPE 'C20' EXCEPT WITH BATTERY PACK	RECESSED	LED	2000	3500	18	MVOLT	0-10V 10% DIM	LITHONIA LIGHTING	2ALL	
C33	2' X 2' [610 X 610]	LED TROFFER WITH STEPPED DIFFUSER	RECESSED	LED	3300	3500	29	MVOLT	0-10V 10% DIM	LITHONIA LIGHTING	2ALL	
C33E	2' X 2' [610 X 610]	SAME AS TYPE 'C33' EXCEPT WITH BATTERY PACK	RECESSED	LED	3300	3500	29	MVOLT	0-10V 10% DIM	LITHONIA LIGHTING	2ALL	
D20	2' X 2' [610 X 610]	LED TROFFER WITH FLUSH ALUMINUM DOOR AND MICRO PRISM LENS	RECESSED	LED	2000	3500	18	MVOLT	0-10V 10% DIM	LITHONIA LIGHTING	2TL	
D20E	2' X 2' [610 X 610]	SAME AS TYPE 'D20' EXCEPT WITH BATTERY PACK	RECESSED	LED	2000	3500	18	MVOLT	0-10V 10% DIM	LITHONIA LIGHTING	2TL	
H06	I N/A	CAST ALUMINUM, VAPOR TIGHT OUTDOOR LED FIXTURE WITH SURFACE-MOUNT JUNCTION BOX AND GUARD, GRAY FINISH	WALL	LED	600	4000	15	MVOLT	INTEGRAL	LITHONIA LIGHTING	OLVTWM	MOUNT ON GRS AT 6'- 6" AFF [1980] OR AS INDICATED ON DRAWINGS
H06S	N/A	SAME AS TYPE 'H06' EXCEPT CEILING-MOUNT	SURFACE	LED	600	4000	15	MVOLT	INTEGRAL	LITHONIA LIGHTING	OLVTCM	
H12	N/A	CAST ALUMINUM, VAPOR TIGHT OUTDOOR LED FIXTURE WITH SURFACE-MOUNT JUNCTION BOX AND GUARD, GRAY FINISH, LISTED FOR HIGH AMBIENT ENVIRONMENT 122°F/50°C	SURFACE	LED	1200	4000	22	MVOLT	INTEGRAL	CREE LIGHTING	C-VT-A	MOUNT IN MV MANHOLE AND STEAM MANHOLE. SEE DETA 6/E-504
J20E	VVALL	EXTERIOR WALL PACK (-20°C) WITH INTEGRAL PHOTOCELL AND 18W EMERGENCY BATTERY PACK, DARK BRONZE FINISH, 90 CRI, WIDE DISTRIBUTION	WALL	LED	2000	4000	15	MVOLT	INTEGRAL	LITHONIA LIGHTING	WDGE2	MOUNT ABOVE DOOF AT 9' AFG [2740]. COORDINATE WITH ARCH
K17	13" X 13" [330 X 330]	WIDE FLOOD LIGHT WITH INTEGRAL PHOTOCELL AND YOKE MOUNT, DARK BRONZE FINISH. PROVIDE WITH STEEL ANGLE BRACKET AND TOP-MOUNTED VISOR	WALL	LED	17000	4000	111	MVOLT	0-10V 10% DIM	LITHONIA LIGHTING	DSXF 3	
S20		WET LOCATION RECESSED LED TROFFER WITH ACRYLIC FROSTED LENS, 80CRI	RECESSED	LED	3000	4000	27	MVOLT	0-10V 10% DIM	LITHONIA LIGHTING	2ALL	COORDINATE TRIM WITH CEILING TYPE
EM1	NIA	INDUSTRIAL LED EMERGENCY LIGHT, NEMA 4X L ISTED FOR HIGH AMBIENT ENVIRONMENT 122F/50C WITH EXTRA HIGH OUTPUT BATTERY AND SELF DIAGNOSTICS REMOTE TESTING. PROVIDE WITH CORD AND PLUG.	WALL	LED	1100	5000	24	MVOLT	INTEGRAL	LITHONIA LIGHTING	EXTL	MOUNT @ 9' AFF [2740
X1	N/A	WET-LOCATION, SINGLE-FACE, WHITE THERMOPLASTIC LED EXIT SIGN WITH RED LETTERS AND SELF DIAGNOSTIC INTEGRAL NI-CAD BATTERY. LISTED FOR HIGH AMBIENT ENVIRONMENT 122°F/50°C.	UNIVERSAL	LED	N/A	N/A	3	MVOLT	INTEGRAL	LITHONIA LIGHTING	WLTE	ARROWS PER DRAWINGS

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ROOM NUMBER	ROOM NAME	MANUAL ON	MANUAL OFF	DIMMING SWITCH	OVERRIDE SWITCH	MULTI ZONE DIMMING SWITCH	TIME CLOCK ON	TIME CLOCK OFF	OCCUPANCY SENSOR	OCCUPANCY SENSOR	PHO TO CON TROL SWITCHING	PHO TO CON TROL DIMMING	EXTERIOR PHOTO- CELL ON/OFF	REMARKS
	EXISTING TUNNEL	•	•											
	NEW PUMP ROOM	•	•											
	EXISTING PUMP ROOM	•	•											
	FIRE PUMP ROOM	•	•											
	GENERATOR ROOM	•	•											
	TRANSFORMER	•	•											
	IT ROOM	•	•											
	SECURITY ROOM	•	•		ļ							T		
	ELECTRICAL ROOM	•	•											
	CORRIDOR				•				•					
	HAC	•												
	OFFICE	•		•						•				
	CONTROL ROOM		•	•					•					
	PASSAGE													
	BOILER ROOM (HIGHBAY)	•	•											
	BOILER ROOM(LOW)	•	•											
	BREAK ROOM	•		•										
	CONTRACTOR TOUCHDOWN	•		•						•		1=1		
	SHOWER	•								•				
177	LOCKER	•								•				
	TOILETS	•								•				
1 6 6 .	STORAGE	•								•				
	STORAGE BELOW EQUIPMENT	•	•											
	EXTERIOR SECURITY LIGHTS						•						•	TIMECLOCK-ON, EXTERIOR PHOTOCELL-OFF
111	FLOOD LIGHTS				•		•						•	TIMECLOCK-ON, EXTERIOR PHOTOCELL-OFF

	S DRAWING SHALL NOT BE USED FOR ANY WITHOUT THE SEAL AND SIGNATURE PROFESSIONAL ENGINEER.		CONSULTANTS	
			HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050	FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)750-2246
			CIVIL / STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2691	ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)309-2990
			ARCHITECTURAL OCULUS INC.	PHYSICAL SECURITY FORCE PROTECT 3340 CHI E BLVD LINIT 304 BELL FAIR BEACH EL 33786
NO.	DESCRIPTION	DATE	1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (502)836-4232

3. PROVIDE EMERGENCY LIGHTING FIXTURES WITH A UL924 EMERGENCY LIGHTING CONTROL RELAY BY THE LIGHTING CONTROL SYSTEM MANUFACTURER.

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one eighth inch = one foot

0 4 8 16

VA FORM 08-6231

ENGINE	ER OF RECORD	
	Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business	SDVOSB
	1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002	
	MR PROJECT NO: 0499-0121	

MILLER-REMICK LLC PROFESSIONAL ENGINEER	(Office of	D
26413	an	nstruction d Facilities nagement	A
9-3, 2021	VA	U.S. Department of Veterans Affairs	

Drawing Title ELECTRICAL LIGHTING FIXTURE SCHEDULE & LIGHTING CONTROL SCHEDULE	Phase 100% BID SET	Project Title INSTALL NEW E BUILDING 13	BOILERS IN		Project Number 589A7-18-302 Building Number
Approved: Project Director	FULLY SPRINKLERED	Location ROBERT J. D. WICHITA, KA Issue Date 2021-09-03		Drawn ARH	Drawing Number E-705