

SCALE: NTS

- A. THE EXISTING CONDITIONS SHOWN WERE TAKEN FROM AVAILABLE RECORD INFORMATION. FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION. IF ANY DISCREPANCIES ARE DISCOVERED, NOTIFY THE ENGINEER IN WRITING AND REQUEST DIRECTION PRIOR TO COMMENCING WORK.
- B. EXISTING LIGHT FIXTURES SHALL BE CAREFULLY REMOVED (DO NOT DAMAGE) AND RETURNED TO THE OWNER.
- C. ANY AND ALL EQUIPMENT HAVING ELECTRICAL CONNECTIONS THAT REQUIRE DISCONNECTING AND/OR RE-CONNECTING AS A RESULT OF CONSTRUCTION SHALL BE INCLUDED AS A PART OF THIS CONTRACT.
- D. THE EXISTING ELECTRICAL DEVICES, CONDUIT, AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION SHALL BE RELOCATED UNLESS OTHERWISE NOTED. LOCATION IS TO BE AS CLOSE AS POSSIBLE TO THE ORIGINAL LOCATION.
- E. ALL CIRCUITS, CONDUIT AND WIRE THAT ARE NOT TO REMAIN IN SERVICE SHALL BE REMOVED BACK TO THE FIRST ACCESSIBLE JUNCTION BOX WHERE IT SHALL BE TIED OFF AND LABELED AS SPARE WITH CIRCUIT NUMBER INDICATED.
- F. REMOVE ALL ABANDONED WIRE AND CABLING.

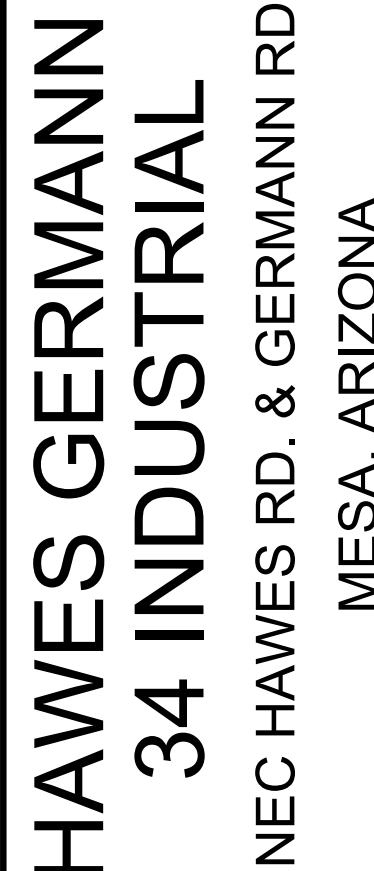
1. SYMBOLS LEGENDS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. THE SYMBOLS REPRESENT THE TYPE OF DEVICES THAT MAY BE REQUIRED IN THE WORK; QUANTITIES AND LOCATIONS ARE AS SHOWN ON THE PLAN SHEETS.
2. PROVIDE 3/4" CONDUIT & #12 CONDUCTORS UNLESS NOTED OTHERWISE. PROVIDE ONE NEUTRAL CONDUCTOR FOR EACH UNGROUNDED CONDUCTOR OF SINGLE PHASE LINE-NEUTRAL BRANCH CIRCUITS. DO NOT SHARE NEUTRAL CONDUCTORS.
3. EACH FEEDER AND BRANCH CIRCUIT CONDUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NFPA 70, ARTICLE 250.
4. ALL ELECTRICAL EQUIPMENT IN PORTIONS OF THE BUILDING NOT BEING REMODELED SHALL BE LEFT IN WORKING CONDITION. RESTORE ANY CIRCUITS INTERRUPTED.
5. ALL NEW LIGHT FIXTURES AND FIXTURES IN AREAS ADJACENT DEMOLITION & CONSTRUCTION AREAS ARE TO BE THOROUGHLY CLEANED IMMEDIATELY PRIOR TO NOTICE OF SUBSTANTIAL COMPLETION.
6. THE FOLLOWING IS PART OF THIS PROJECT AND ALL COSTS PERTAINING THERETO SHALL BE INCLUDED IN THE BASE BID:
 - A. NEW ELECTRICAL EQUIPMENT AND APPARATUS SHALL BE COORDINATED AND CONNECTED INTO THE EXISTING SYSTEM AS REQUIRED.
 - B. POWER WIRING AND CABLE INSTALLATIONS SHALL BE CONCEALED ABOVE ACCESSIBLE CEILINGS AND IN WALLS. EXPOSED WIRING SHALL BE INSTALLED IN APPROVED SURFACE METAL RACEWAY WHERE INDICATED.
 - C. WHERE EXISTING CONDUITS ARE INDICATED FOR REUSE, FIELD VERIFY INTEGRITY OF REUSED RACEWAYS PRIOR TO INSTALLATION OF CONDUCTORS. PROVIDE NEW RACEWAYS WHERE EXISTING ARE UNUSABLE.
 - D. LOCATIONS OF ALL WALL MOUNTED DEVICES SUCH AS SWITCHES, RECEPTACLE, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. VISIT THE SITE TO CONFIRM EXACT DEVICE LOCATIONS AND COORDINATE INSTALLATIONS WITH FIXED CASEWORK, DOORS AND RELIEF.
 - E. PROVIDE PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS AS REQUIRED, PROVIDE SUITABLE FIRE RATED MATERIALS AND SEAL ALL CEILING, FLOOR, AND WALL PENETRATION TO MATCH FIRE RATING OF SURFACES PENETRATED.

1. LIGHTING SYSTEMS SHALL BE PROVIDED WITH CONTROLS AS ZONED ON THE LIGHTING PLANS. SWITCHING AND DIMMING ZONES ARE INDICATED ADJACENT TO EACH FIXTURE.
2. MANUAL CONTROLS SHALL ALLOW OCCUPANTS TO UNIFORMLY REDUCE ILLUMINATION LEVELS AT LEAST 50% EXCEPTION: CORRIDORS, RESTROOMS, LOBBIES, MECHANICAL, ELECTRICAL, AN INFORMATION TECHNOLOGY (IDF) ROOMS CONTROLLED BY OCCUPANCY SENSORS.
3. EACH AREA THAT IS REQUIRED TO HAVE A MANUAL CONTROL SHALL ALSO HAVE AUTOMATIC TIME SWITCH CONTROL. PROVIDE TIME OVERRIDE SWITCHES THAT WILL SERVE A MAXIMUM AREA OF 2500 S.F. IN LOCATIONS SHOWN ON PLANS.

EXCEPTIONS:
A. EMERGENCY EGRESS LIGHTING CONTROLLED BY OCCUPANCY SENSORS.
B. LIGHTING IN SPACES CONTROLLED BY OCCUPANCY SENSORS.
4. LUMINAIRES PROVIDING MEANS OF EGRESS ILLUMINATION AND HAVING BOTH NORMAL AND EMERGENCY POWER SOURCES SHALL BE CONTROLLED BY A COMBINATION OF UL 924 LISTED EMERGENCY RELAYS AND OCCUPANCY SENSORS THAT ENABLES THE LIGHTING TO BE SHUT OFF WHEN THE AREAS SERVED ARE UNOCCUPIED AND AUTOMATICALLY ILLUMINATES IN THE EVENT OF NORMAL POWER SOURCE FAILURE.
5. THE MAXIMUM LIGHTING POWER THAT MAY BE CONTROLLED FROM A SINGLE SWITCH OR AUTOMATIC CONTROL SHALL NOT EXCEED THAT WHICH IS PROVIDED BY A 20 AMPERE CIRCUIT LOADED TO NOT MORE THAN 80 PERCENT.
6. PROVIDE FUNCTIONAL TESTING OF AUTOMATIC LIGHTING CONTROLS. SUBMIT WRITTEN PROCEDURES FOR FUNCTIONAL TESTING OF ALL AUTOMATIC CONTROLS WITH DESCRIPTION OF THE EXPECTED SYSTEM RESPONSE.

	AT	MAG	MAGNETIC
A/C	AIR CONDITIONING(ER)	MAN	MANUAL
A (AMP)	AMPERE	MAT	MATERIAL
AC	ABOVE COUNTER, ALTERNATING CURRENT	MAX	MAXIMUM
ADJ	ADJUSTABLE	MCA	MINIMUM CIRCUIT CAPACITY
ADJT	ADJUST	MCB	MINIATURE CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AHJ	AUTHORITY HAVING JURISDICTION	MEZZ	MEZZANINE
AIC	AMPERE INTERRUPTING CAPACITY	MG	MOTOR GENERATOR
ALT	ALTERNATE	MH	METAL HALIDE / MANHOLE
ANN	ANNUNCIATOR	MIN	MINIMUM
ARCH	ARCHITECT; ARCHITECTURAL	MISC	MISCELLANEOUS
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUG ONLY
AUTO	AUTOMATIC	MOCP	MAXIMUM OVERCURRENT PROTECTION
AUX	AUXILIARY	MS	MAGNETIC STARTER
AWG	AMERICAN WIRE GAUGE	MTD	MOUNTED
BKBD	BACKBOARD	MTG	MOUNTING
BKR	BREAKER	MTR	MOTOR
BLDG	BUILDING	N	NORTH, NEUTRAL
C	CONDUIT	N/A	NOT APPLICABLE
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CKT	CIRCUIT	NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
CLG	CEILING	NESC	NATIONAL ELECTRICAL SAFETY CODE
CLR	CLEAR	NEUT	NEUTRAL
COL	COLUMN	NFPA	NATIONAL FIRE PROTECTION AGENCY
COM	COMMUNICATION	NIC	NOT IN CONTRACT
CPS	CYCLES PER SECOND	NO	NORMALLY OPEN
CT	CURRENT TRANSFORMER	NTS	NOT TO SCALE
CTL	CONTROL	OC	ON CENTER
CU	COPPER	OFCl	OWNER FURNISHED CONTRACTOR INSTALLED
DC	DIRECT CURRENT	OFOI	OWNER FURNISHED OWNER INSTALLED
DISC SW	DISCONNECT SWITCH	OL	OVERLOAD
DISC	DISCONNECT	OS	OPTIONAL STANDBY
DN	DOWN	P	PRIMARY
DWG	DRAWING	PA	PUBLIC ADDRESS
E	EXIST, EAST	PAR	PARALLEL
EGH	ELECTRIC DUCT HEATER	PB	PULL BOX
EF	EXHAUST FAN	PE	PHOTO ELECTRIC
EDG	EQUIPMENT GROUNDING CONDUCTOR	PF	POWER FACTOR
EL	ELEVATION	PI	PHASE
ELEC	ELECTRICAL(AL)	PIV	POST INDICATOR VALVE
ELEV	ELEVATOR	PINL	PANEL
EM	EMERGENCY	POC	POINT OF CONNECTION
EMT	ELECTRICAL METALLIC TUBING	PWR	POWER
ENC	ENCLOSURE	QTY	QUANTITY
ENTR	ENTRANCE	R (R)	RELOCATE (D)
EP	EXPLOSION PROOF	RAD	RADIUS
EPO	EMERGENCY POWER OFF	RECPT	RECEPTACLE
EQUIP/EQP	EQUIPMENT	REF	REFRIGERATOR
EWV	ELECTRIC WATER COOLER	RATA	RATED LOAD AMPS
EVH	ELECTRIC WATER HEATER	RPM	REVOLUTIONS PER MINUTE
EXH	EXHAUST	S	SOUTH
EXT	EXTERIOR	SC	SECURITY
EXIST	EXISTING	SCCR	SHORT CIRCUIT CURRENT RATING
F	FAHRENHEIT/FUSE	SD	SMOKE DETECTOR
FA	FIRE ALARM	SECT	SECTION
FAA	FIRE ALARM ANNUNCIATOR	SFT	SUPPLY FAN
FACP	FIRE ALARM CONTROL PANEL	SHT	SHEET
FC	FOOTCANDLE	SPD	SURGE PROTECTIVE DEVICE
FCU	FAN COIL UNIT	SPEC	SPECIFICATION
FDR	FIRE DAMPER	SPL	SPECIAL
FDR	FEEDER	SQ	SQUARE
FIXT	FIXTURE	STOR	STORAGE
FLA	FULL LOAD AMPS	SW	SWITCH
FSD	FIRE/SMOKE DAMPER	SWBD	SWITCHBOARD
GEN	GENERATOR	SYM	SYMMETRICAL
GFI	GROUND FAULT CIRCUIT INTERRUPTER	SYS	SYSTEM
GFR	GROUND FAULT RELAY	T	THERMOSTAT
H	HEIGHT	TB	TERMINAL BOX
HID	HIGH INTENSITY DISCHARGE	TC	CLOCK
HOA	HAND OFF AUTOMATIC	TEL	TELEPHONE
HORIZONTAL	HORIZONTAL	TV	TELEVISION
HP	HORSEPOWER	TYP	TYPICAL
HR	HOUR	UF	UNIFORM FIRE CODE
HT	HEIGHT	UG	UNDERGROUND
HW	HOT WATER	UH	UNIT HEATER
HZ	HERTZ	UL	UNDERWRITERS LABORATORIES
IBC	INTERNATIONAL BUILDING CODE	UN	UNLESS OTHERWISE NOTED
IB	INTERCOM	UV	UNIT VENTILATOR
IES	ILLUMINATING	V	VOLT
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	VAV	VARIABLE AIR VOLUME
IG	ISOLATED GROUND	VEL	VELOCITY
IMC	INTERMEDIATE METAL CONDUIT	VM	VOLTMETER
IN	INCH	VOL	VOLUME
.JB	JUNCTION BOX	W	WATT, WEST
KCMIL	THOUSAND CIRCULAR MILLS	W/	WITH
KVA	KILOVOLT AMPERES	W/O	WITHOUT
KVAR	KILOVOLT AMPERES REACTIVE	WH	WATER HEATER
KW	KILOWATT	WHM	WATT HOUR METER
KWH	KILOWATT HOUR	WP	WEATHERPROOF
LBS	POUNDS	X	REACTANCE
LF	LINEAR FEET (FEET)	XFMR	TRANSFORMER
LRA	LOCKED ROTOR AMPS	XMTR	TRANSMITTER
LS	LIFE SAFETY	Z	IMPEDANCE
LT	LIGHT	&	AND
LTG	LIGHTING	I.E.:	THAT IS
LV	LOW VOLTAGE		

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SHEE

Exp. 15 May 2023

311 E. Veterans Way, Ste. 102
Tempe, Az 85281

SAZAN # 837-21033

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ZONING: R1-43

EAST GERMANN ROAD

PHOTOMETRIC
SITE PLAN
SCALE: 1"=60'-0"

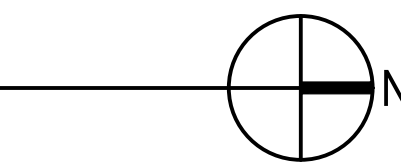
INDUSTRIAL BLDG 1
FOOTPRINT: 108,413 SF
CLR. HGT: 32'

ZONING: L1

INDUSTRIAL BLDG 2
FOOTPRINT: 234,970 SF
CLR.HGT: 32'

INDUSTRIAL BLDG 3
FOOTPRINT: 203,350 SF
CLR.HGT: 32'

ZONING



SÄZÄN
GROUP

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PHOTOMETRIC PLAN

DATE	REMARKS
04/13/2022	DR SUBMITTAL

PA / PM:	B. BLAKE
DRAWN BY:	
JOB NO.:	PHX21-0049-00

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WARE MALCOMB
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Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PL FC 3' AFG	✕	0.2 fc	0.4 fc	0.0 fc	N/A	N/A
SITE FC AFG	+	2.1 fc	7.6 fc	0.3 fc	25.3:1	7.0:1

Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
☐	EM	43	Lithonia Lighting	AFF FCT	AFF premium FCT (Forward Throw)	1	451	0	5.48
☐ ◻	S1	6	LITHONIA	DSX2 LED P8 40K T5W MVOLT SPA DDBXD / CEM-TEC 22.5' SSS POLE W/ 2.5' BASE	DSX2 AREA LIGHT WITH P8 PERFORMANCE PACKAGE & T5W OPTIC MOUNTED @ 25' AFG	1	50729	0.91	431
☐ ◻	S4	5	LITHONIA	DSX2 LED P3 40K T3M MVOLT SPA HS DDBXD / CEM-TEC 22.5' SSS POLE W/ 2.5' BASE	DSX2 AREA LIGHT WITH P3 PERFORMANCE PACKAGE & T5W OPTIC MOUNTED @ 25' AFG	1	22240	0.91	217
☐ ◻	S6	4	LITHONIA	DSX2 LED P3 40K BLC MVOLT SPA DDBXD / CEM-TEC 22.5' SSS POLE W/ 2.5' BASE	DSX2 AREA LIGHT WITH P3 PERFORMANCE PACKAGE & BACK LIGHT CONTROL OPTIC MOUNTED @ 25' AFG	1	23165	0.91	217
○	S7	20	Lithonia Lighting	LDN6 40/15 LW6AR LSS	6IN LDN WALLWASH, 4000K, 1500LM, CLEAR, SEMI-SPECULAR REFLECTOR	1	1411	0.91	17.06
☐	W1	22	LITHONIA	DSX2 LED P4 30K TFTM MVOLT WBA DDBXD	DSX2 AREA LIGHT WITH P4 PERFORMANCE PACKAGE && TFTM FORWARD THROW OPTIC WALL MOUNTED @ 25' AFG	1	30993	0.91	270
☐	W2	2	Lithonia Lighting	DSX2 LED P4 30K T3M MVOLT WBA DDBXD	DSX2 LED P4 30K T3M MVOLT	1	30107	0.91	270
☐	W3	20	Lithonia Lighting	DSX2 LED P4 30K T4M MVOLT WBA DDBXD	DSX2 LED P4 30K T4M MVOLT	1	30338	0.91	270

SAZAN

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FIXTURE SCHEDULE		REMARKS	
DATE	DR SUBMITTAL		
1 04/12/2022			

PA / PM:	B. BLAKE
DRAWN BY:	
JOB NO.:	PHX21-0049-00

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