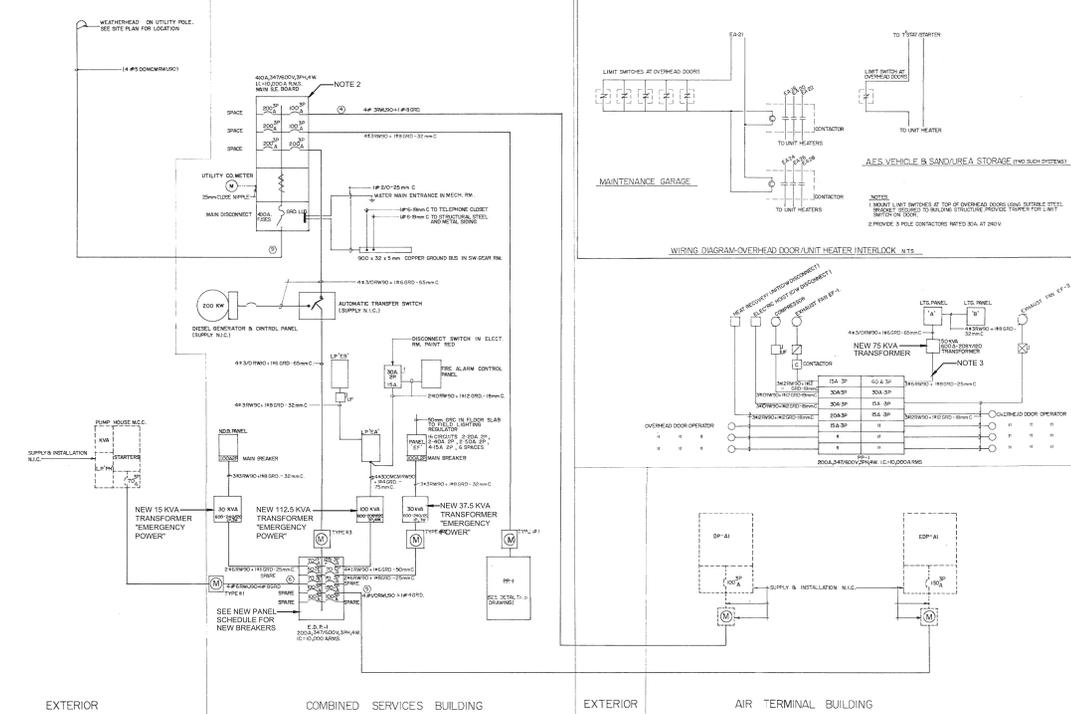


ELECTRICAL LEGEND

- NEW LED LIGHT FIXTURE AS PER LIGHTING FIXTURE SCHEDULE.
- EXISTING LIGHTING FIXTURE TO BE REMOVED AND REPLACED WITH NEW AS INDICATED.
- NEW LIGHT FIXTURE CONNECTED TO EMERGENCY GENERATOR POWER AS INDICATED.
- EXISTING EXTERIOR WALL PACK TO BE TEMPORARILY REMOVED TO ACCOMMODATE INSTALLATION OF NEW SINGING, REINSTATE ONCE SINGING IS INSTALLED.
- NEW LED EXTERIOR WALL PACK.
- EXISTING 15A, 120V, TOGGLE LIGHT SWITCH TO BE REPLACED WITH NEW SPEC. GRADE LIGHT SWITCH.
- EXISTING 15A, 120V, TOGGLE LIGHT SWITCH WITH PILOT LIGHT TO BE REPLACED WITH NEW SPEC. GRADE LIGHT SWITCH WITH PILOT LIGHT.
- EXISTING 15A, 120V, 3-WAY TOGGLE LIGHT SWITCH TO BE REPLACED WITH NEW SPEC. GRADE 3-WAY LIGHT SWITCH.
- EXISTING 15A, 120V, 4-WAY TOGGLE LIGHT SWITCH TO BE REPLACED WITH NEW SPEC. GRADE 4-WAY LIGHT SWITCH.
- EXISTING 15A, 120V, GANGED TOGGLE LIGHT SWITCHES TO BE REPLACED WITH NEW SPEC. GRADE GANGED LIGHT SWITCHES.
- NEW CEILING MOUNTED LINE VOLTAGE IR OCCUPANCY SENSOR, DT - INDICATES DUAL TECHNOLOGY TYPE, MOUNT IN AREA WITHIN CLEAR SITE OF PERSONNEL OCCUPYING ROOM. "W" - INDICATES WALL MOUNTED OCCUPANCY SENSOR.
- EXISTING EXIT SIGN TO BE REPLACED WITH NEW SPEC. GRADE WALKING MAN SIGN, SUPPLY AND INSTALL ADDITIONAL EXIT SIGNS WHERE INDICATED.
- NEW EMERGENCY LIGHTING BATTERY UNIT #5 WITH DOUBLE LED V.W. REMOTE HEADS, UNITS TO BE CAPABLE OF 90 MINUTE DURATION UNDER FULL LOAD.
- NEW DOUBLE EN. EMERGENCY LED REMOTE LIGHTING UNIT CONNECTED TO DC POWER OF BATTERY UNIT #5.
- EXISTING 15A, 120V, DUPLEX RECEPTACLE WITH WEATHER PROOF COVER TO BE REPLACED WITH NEW CLASS 'A' GROUND FAULT RECEPTACLE AND COVER.
- EXISTING 15A, 120V, DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TO BE REPLACED WITH NEW RECEPTACLE.
- NEW 20A, DUPLEX CONVENIENCE RECEPTACLE MOUNTED 200mm ABOVE COUNTER SPLASHBACK, GFI INDICATES RECEPTACLE TO BE CLASS 3 GROUND FAULT DEVICE.
- 30A, 2P/3W DRIVER RECEPTACLE TO BE REPLACED WITH NEW.
- 40A, 2P/3W RANGE RECEPTACLE.
- 15A, 120V DUPLEX RECEPTACLE TO BE REPLACED WITH NEW.
- NEW ADDRESSABLE HEAT DETECTOR, CONNECT TO MAIN FIRE ALARM PANEL, RUN NEW WIRE AND CONDUIT TO NEW LOCATIONS AND MAKE FINAL CONNECTIONS.
- EXISTING FIRE ALARM SYSTEM MANUAL PULL STATION TO BE REMOVED AND REPLACED WITH NEW SUPPLY AND INSTALL ADDITIONAL PULL STATIONS WHERE INDICATED, RUN NEW WIRE AND CONDUIT TO NEW LOCATIONS AND MAKE FINAL CONNECTIONS.
- EXISTING FIRE ALARM SYSTEM SMOKE DETECTOR TO BE REMOVED AND REPLACED WITH NEW, SUPPLY AND INSTALL ADDITIONAL DETECTORS WHERE INDICATED, RUN NEW WIRE AND CONDUIT TO NEW LOCATIONS AND MAKE FINAL CONNECTIONS.
- EXISTING FIRE ALARM SYSTEM SMOKE DETECTOR TO BE REMOVED AND REPLACED WITH SMOKE ALARMS, SUPPLY AND INSTALL ADDITIONAL ALARMS WHERE INDICATED, RUN NEW WIRE AND CONDUIT TO NEW LOCATIONS AND MAKE FINAL CONNECTIONS.
- EXISTING FIRE ALARM SYSTEM SIGNAL BELL TO BE REMOVED AND REPLACED WITH NEW COMBINATION HORN/STROBE, SUPPLY AND INSTALL ADDITIONAL HORN STROBES WHERE INDICATED, RUN NEW WIRE AND CONDUIT TO NEW LOCATIONS AND MAKE FINAL CONNECTIONS.
- NEW FIRE ALARM SYSTEM STROBE LIGHT, RUN NEW WIRE AND CONDUIT TO NEW LOCATIONS AS INDICATED AND MAKE FINAL CONNECTIONS.
- EXISTING MECHANICAL SPRINKLER SYSTEM WET ALARM VALVE, CONNECT TO NEW FIRE ALARM PANEL.
- NEW COMBINATION MAGNETIC STARTER/DISCONNECT.
- NEW MANUAL MOTOR STARTER, P INDICATE C/W PILOT LIGHT.
- EXISTING COMBINATION DISCONNECT/WELDING RECEPTACLE TO BE REMOVED AND REPLACED WITH NEW.
- NON FUSIBLE 30A, DISCONNECT SWITCH IN NEMA 4 ENCLOSURE.
- EXISTING OH DOOR MOTOR POWER CONNECTION CONDUCTORS TO BE DISCONNECTED AND RECONNECTED TO NEW OH DOOR MOTOR, UNLESS INDICATED OTHERWISE, DISH WASHER DIRECT CONNECTION POINT.
- EXISTING OH DOOR LIMIT TO BE REMOVED, UNLESS INDICATED OTHERWISE.
- EXISTING OH DOOR PUSH BUTTON UNIT TO BE REMOVED, UNLESS INDICATED OTHERWISE.
- EXISTING TIME CLOCK TO BE REMOVED AND REPLACED WITH NEW.
- EXISTING WALL MOUNTED TELEPHONE.
- EXISTING REMOTE TELEPHONE BELL.
- NEW DATA OUTLET LOCATED IN ROOM 206, INSTALL OUTLET BOX, INSTALL 21mm CONDUIT FROM BOX TO DATA BOARD IN ROOM 103 C/W FISH STRONG.
- NEW TELEPHONE OUTLET LOCATED IN ROOM 206, INSTALL OUTLET BOX, INSTALL 21mm CONDUIT FROM BOX TO TELEPHONE BOARD IN ROOM 103A C/W FISH STRONG.
- EXISTING CONTACTOR TO BE REPLACED WITH NEW.
- EXISTING RELAY TO BE REPLACED WITH NEW.
- EXISTING 120V, HEATING THERMOSTAT TO BE REMOVED AND REPLACED WITH NEW PROGRAMMABLE TYPE.
- EXISTING LOW VOLTAGE HEATING THERMOSTAT TO BE REMOVED AND REPLACED WITH NEW PROGRAMMABLE TYPE.
- MECHANICAL HYDRONIC HEATING CONTROL VALVE IN BASEBOARD HEATER.
- EXISTING SPEED CONTROLLER TO BE REMOVED AND REPLACED WITH NEW.
- NEW INTRUSION ALARM SYSTEM FLUSH DOOR CONTACTOR.
- NEW INTRUSION ALARM SYSTEM GARAGE DOOR CONTACTOR.
- NEW INTRUSION ALARM SYSTEM CONTROL PANEL.
- DEVICES AND EQUIPMENT WITH DESIGNATION "N" INDICATES THE EQUIPMENT IS NEW AND IN A NEW LOCATION AND IS SUPPLIED, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- RECEPTACLE WITH DESIGNATION "M" INDICATES RECEPTACLE TO BE MOUNTED IN UPPER CUPBOARD SPACE FOR MICROWAVE USE.
- EXISTING DEVICE AND ASSOCIATED WIRE AND CONDUIT TO REMAIN.
- EXISTING DEVICE AND ASSOCIATED OUTLET BOX AND WIRE AND CONDUIT TO BE REMOVED, ENSURE POWER IS CONTINUED TO DEVICES CONNECTED DOWNSTREAM FROM DEVICE BEING COMPLETELY REMOVED.
- EXISTING DEVICE AND ASSOCIATED WIRE AND CONDUIT TO BE RELOCATED TO ACCOMMODATE NEW ARCHITECTURAL.
- NEW LOCATION OF EXISTING DEVICE AND ASSOCIATED WIRE AND CONDUIT, DEVICE IS TO BE REPLACED WITH NEW.



ELECTRICAL DISTRIBUTION SYSTEM - SINGLE LINE DIAGRAM

- NOTES:**
- PANEL NOB SHALL BE LABELED AS "EMERGENCY PANEL" ALONG WITH ASSOCIATED TRANSFORMERS SHOULD BE LABELED AS "EMERGENCY POWER" AS INDICATED ABOVE.
 - CONTRACTOR TO SUPPLY AND INSTALL A 90A 3P BREAKER IN THE MAIN SERVICE ENTRANCE BOARD, CHARACTERISTICS TO MATCH WITH SERVICE ENTRANCE BOARD.
 - CONTRACTOR TO DISCONNECT TRANSFORMER FEEDING PANEL A FROM BREAKER IN PANEL PP-1.
 - CONTRACTOR TO SUPPLY AND RUN 3 - #2 RW90 + #1 TW GND IN 35MM EMT FROM NEW 90A BREAKER IN MAIN SERVICE ENTRANCE BOARD AND TERMINATE IN NEW 75KVA TRANSFORMER.
 - CONTRACTOR TO SUPPLY AND RUN 4 - #300MCM + #4 TW GND IN 78MM EMT FROM SECONDARY OF NEW 75KVA TRANSFORMER AND TERMINATE IN PANEL A.

EXISTING POWER RISER AND O/H DOOR-HEATER CONTROL INTERLOCK DIAGRAMS



FIXTURE TAG	FIXTURE SIZE	FIXTURE TYPE	LAMP SOURCE	LOCATION	MOUNTING	VOLTAGE	BALLAST	APPROX. WATTAGE	APPROX. LUMENS	REMARKS
A	178mm X 1270mm	INDUSTRIAL WET LOCATION RATED	LED 3500K	INTERIOR	ROOF HUNG	120	LED DRIVER	65	7000	C/W FROSTED LENS
B	305mm X 1220mm	T-GRID TROFFER	LED 3000K	INTERIOR	RECESSED T-SBAR	120	LED DRIVER	30	3200	
C	64mm X 1137mm	STRIP LIGHT	LED 3000K	INTERIOR	SURFACE	120	LED DRIVER	32	4000	C/W FROSTED LENS
D	178mm X 1270mm	INDUSTRIAL WET LOCATION RATED	LED 3500K	INTERIOR	SURFACE	120	LED DRIVER	38	4300	C/W FROSTED LENS
E	220mm X 215mm	WALL PACK	LED 4000K	EXTERIOR	EXTERIOR WALL	120	LED DRIVER	35	3700	MOUNTING HEIGHT TO MATCH EXISTING, 80 CRI
F	610mm X 1220mm	T-GRID TROFFER	LED 3000K	INTERIOR	RECESSED T-SBAR	120	LED DRIVER	50	5400	PROVIDE DRYWALL KIT WHERE NECESSARY.
G	305mm X 1220mm	T-GRID TROFFER	LED 3000K	INTERIOR	RECESSED GYPSUM	120	LED DRIVER	30	3200	PROVIDE DRYWALL KIT WHERE NECESSARY.
H	120mm X 120mm	SQUARE RECESSED DOWNLIGHT	LED 4000K	INTERIOR	RECESSED GYPSUM	120	LED DRIVER	10	667	PROVIDE DRYWALL KIT WHERE NECESSARY.
J	50mm X 1905mm	UNDERCABINET LIGHTING	LED 3500K	INTERIOR	UNDER CABINET	120	LED DRIVER	18.5	1579	MULTIPLE CONNECTED CONFIGURATION
K	50mm X 965mm	UNDERCABINET LIGHTING	LED 3500K	INTERIOR	UNDER CABINET	120	LED DRIVER	8.8	769	MULTIPLE CONNECTED CONFIGURATION
L	610mm X 1220mm	T-GRID TROFFER	LED 3000K	INTERIOR	RECESSED T-SBAR	120	LED DRIVER	27	3200	PROVIDE DRYWALL KIT WHERE NECESSARY.
M	50mm X 483mm	UNDERCABINET LIGHTING	LED 3500K	INTERIOR	UNDER CABINET	120	LED DRIVER	4.9	391	



CO3	ISSUED FOR TENDER	05/20/2019
CO2	RE-ISSUED FOR TENDER	02/14/2019
CO1	ISSUED FOR TENDER	09/28/2018
revisions		0000

MAINTENANCE GARAGE REHABILITATION ST. ANTHONY AIRPORT

ELECTRICAL LEGEND AND DETAILS

designed	G.N.S.	comp
date	2017.07.17	
drawn	G.N.S.	detail
date	2017.07.17	
approved	V.S.	approve
date	2017.07.17	
number		revision
Project Manager	Administrateur de projet	TPSC
project number	no. du projet	
R.077269.001		
drawing no.	no. du dessin	

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