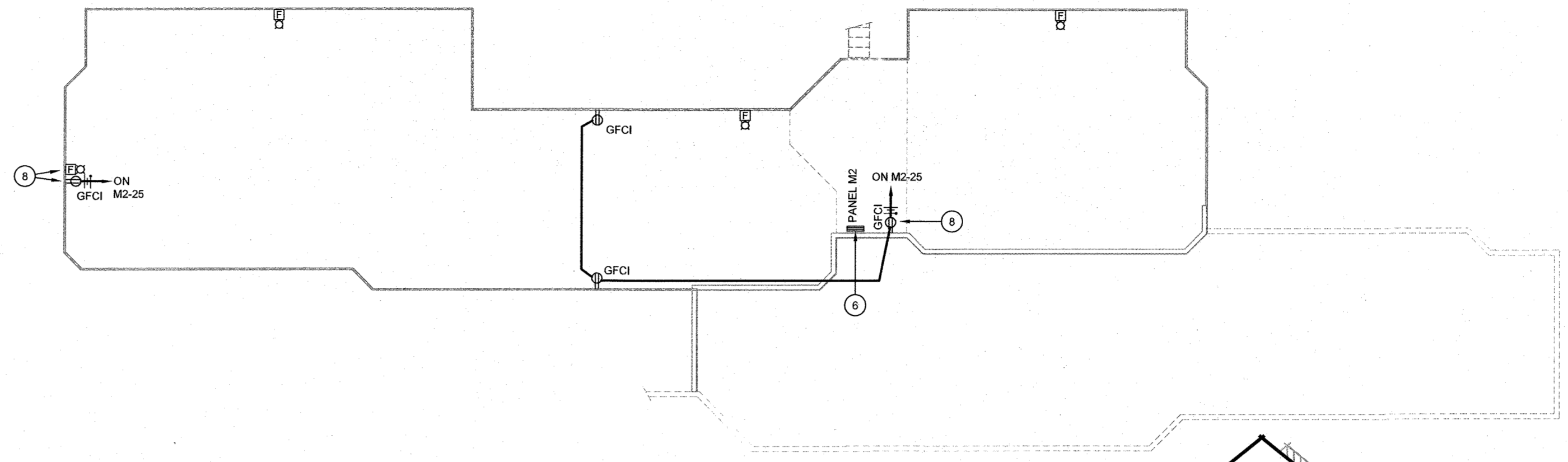
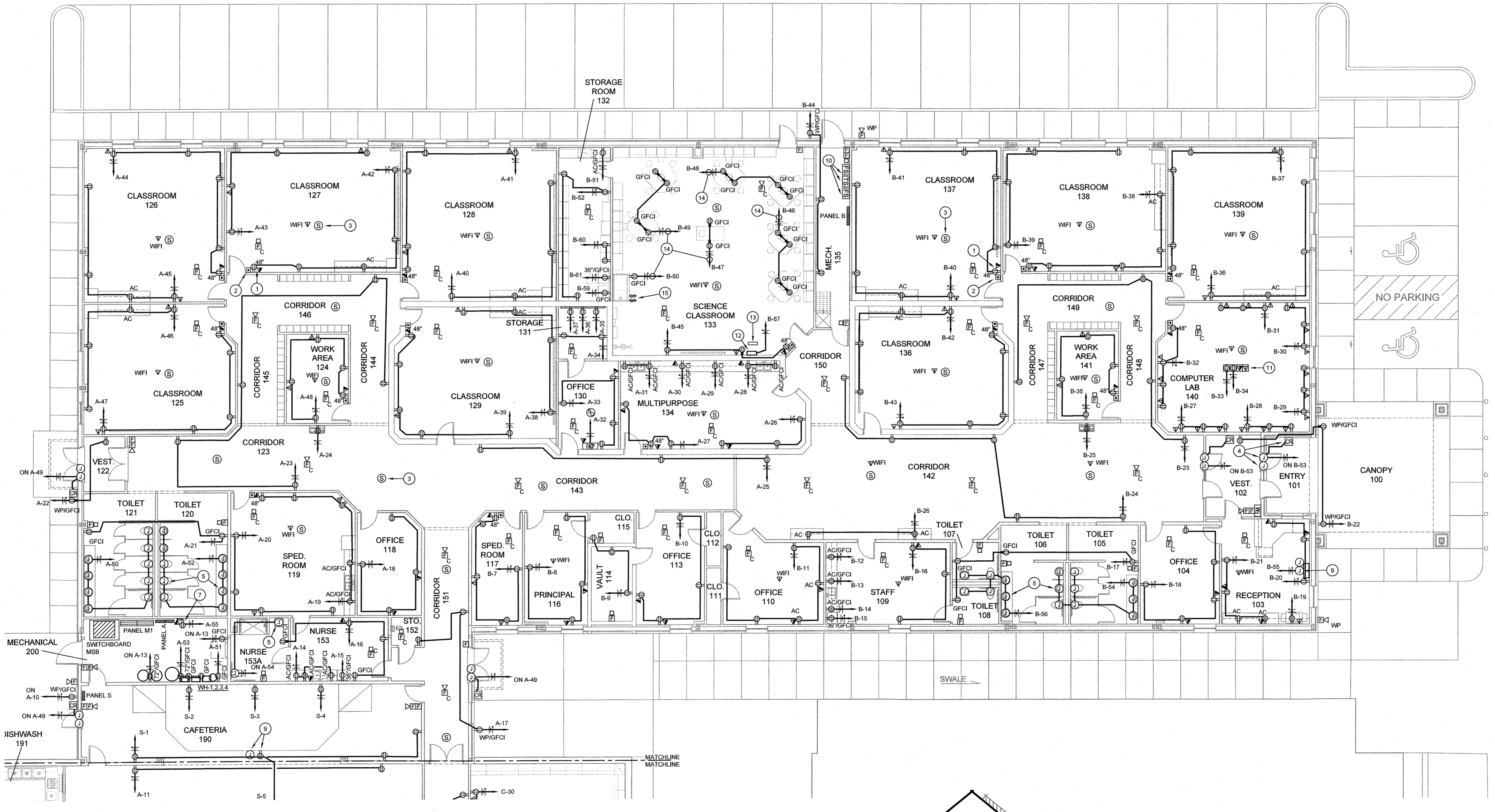
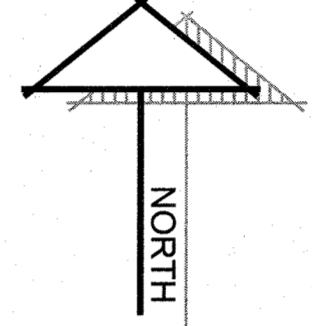


- GENERAL NOTES**
- VERIFY ALL ELECTRICAL INSTALLATIONS WITH LOCAL CODES AND CITY ORDINANCES PRIOR TO INSTALLATION.
 - IT IS ASSUMED THAT ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO THE OWNER.
 - THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT POWER REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. TERMINATE AS DIRECTED BY EQUIPMENT NAME PLATES. COORDINATE EXACT LOCATION FOR INSTALLATIONS WITH OWNER PRIOR TO ROUGH-IN. NOTIFY ENGINEER IF ALTERNATE POWER IS REQUIRED.
 - VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND TEMPERATURE CONTROLS WITH MECHANICAL PLANS. PROVIDE 1" CONDUIT AT EACH THERMOSTAT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
 - PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.
 - PROVIDE MOTOR RATED SWITCHES FOR EACH 120V HVAC CONNECTIONS. OVERLOADS SHALL MATCH MOTOR RATING.
 - CONTRACTOR SHALL PROVIDE NEMA 3R DISCONNECT SWITCHES FOR ALL EXTERIOR HVAC EQUIPMENT. INTERIOR DRY LOCATION DISCONNECT ENCLOSURES SHALL BE RATED NEMA 1.
 - ALL CONDUITS SERVING ROOF-MOUNTED EQUIPMENT SHALL BE EXTENDED INSIDE THE UNIT CURBS TO AVOID ADDITIONAL PITCHPANS. ALL EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR LIQUID TIGHT FLEXIBLE CONDUIT AS SPECIFIED.
 - DATA/TELEPHONE/TV OUTLETS SHALL BE INSTALLED WITH 3/4" CONDUIT EXTENDED TO AN ACCESSIBLE POINT ABOVE CEILING AND PROVIDED WITH PULL STRINGS. COORDINATE ALL TELEPHONE, TV AND DATA LOCATIONS WITH OWNER. PROVIDE INSULATED BUSHING ON BOTH ENDS OF CONDUIT.
 - WHERE GFCI PROTECTION IS REQUIRED BY CODE AND CONNECTION IS LOCATED BEHIND EQUIPMENT, CONTRACTOR SHALL PROVIDE GFCI CIRCUIT BREAKER IN LIEU OF GFCI OUTLET.
 - ALL RECEPTACLES IN AREAS SPECIFIED SHALL BE TAMPER RESISTANT INCLUDING: HOTEL GUEST ROOMS, DWELLING UNITS, CHILD CARE FACILITIES, PRESCHOOL/ELEMENTARY EDUCATION FACILITIES, MEDICAL CLINICS, MEDICAL OFFICES, MEDICAL OUTPATIENT FACILITIES, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS, AND DORMITORIES AS REQUIRED BY NEC ARTICLE 406.12
 - ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT.

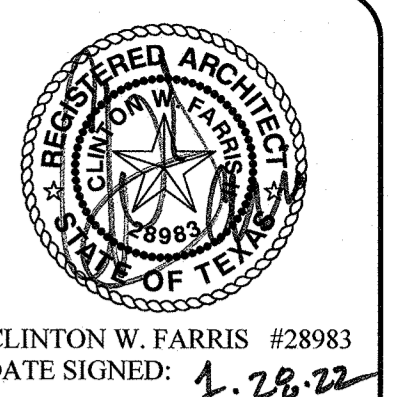
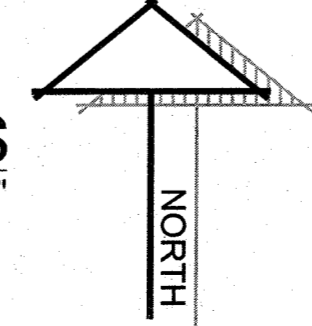
- KEYED NOTES**
- POWER AND COMMUNICATION OUTLET FOR CLASSROOM PHONE. PHONE PROVIDED AND INSTALLED BY OWNER. (TYPICAL)
 - PA SYSTEM CALL BUTTON. EXTEND AND CONNECT TO PUBLIC ADDRESS SYSTEM AS REQUIRED. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER. (TYPICAL)
 - NEW RECESSED PA SPEAKER. PROVIDE BACK BOX FOR SPEAKER AS REQUIRED. EXTEND AND CONNECT TO PUBLIC ADDRESS SYSTEM. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER. (TYPICAL)
 - EXTERIOR DOOR ACCESS CONTROL POWER AND COMMUNICATION CONDUIT. COORDINATE REQUIREMENTS WITH SECURITY COMPANY AND DOOR HARDWARE CONTRACTOR. (TYPICAL)
 - 120V INFRARED PLUMBING SENSOR. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH PLUMBING CONTRACTOR AND MANUFACTURER. (TYPICAL)
 - PROVIDE UNI-STRUT STRUCTURAL EQUIPMENT RACK FOR PANEL. COORDINATE REQUIREMENTS WITH ARCHITECT.
 - POWER AND COMMUNICATION TO SERVE HVAC CENTRAL CONTROLLER. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
 - COORDINATE MOUNTING OF DEVICES LOCATED IN MEZZANINE WITH ARCHITECT.
 - MAIN PUBLIC ADDRESS SYSTEM. COORDINATE EXACT LOCATION OF CABINET WITH ARCHITECT AND OWNER. PROVIDE POWER AND COMMUNICATION RACEWAY FOR SYSTEM AS REQUIRED BY MANUFACTURER. COORDINATE LOCATION OF DESKTOP MICROPHONE WITH ARCHITECT AND OWNER.
 - PROVIDE CONNECTION OF ALL FLOW AND TAMPER SWITCHES TO FIRE ALARM CONTROL PANEL. COORDINATE EXACT NUMBER OF FLOW AND TAMPER SWITCHES WITH FIRE SUPPRESSION CONTRACTOR.
 - COMBINATION FLOOR BOX POWER/COMMUNICATION. COORDINATE EXACT LOCATION WITH ARCHITECT. EXTEND (2) 1" CONDUITS WITH PULL STRING FROM FLOORBOX TO ACCESSIBLE POINT ABOVE CEILING FOR COMMUNICATION WIRING.
 - LAB SAFETY SYSTEM SINGLE UTILITY CONTROLLER WITH EMERGENCY OVERRIDE SWITCH FOR EMERGENCY EXHAUST FAN "EF-3". CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS, SOLENOIDS, UTILITY CONNECTIONS, POWER SUPPLIES, WIRING AND CONDUIT AS REQUIRED. REFER TO PLUMBING DETAIL FOR ADDITIONAL INFORMATION.
 - 20A CONTACTOR IN NEMA 1 ENCLOSURE FOR EMERGENCY SHUT-DOWN PROVIDED BY PLUMBING CONTRACTOR. PROVIDE CONNECTION TO UTILITY CONTROLLER FOR CONTROL OF CONTACTOR. MOUNT CONTACTOR ABOVE CEILING.
 - ROUTE CIRCUIT THROUGH EMERGENCY SHUT-DOWN CONTACTOR. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.
 - SWITCH TO CONTROL HOOD LIGHTS AND SWITCH TO CONTROL EXHAUST FAN "EF-5"



FLOOR PLAN - MEZZANINE - POWER/COMMUNICATIONS
SCALE: 3/32" = 1'-0"



FLOOR PLAN - SECONDARY - POWER/COMMUNICATIONS
SCALE: 3/32" = 1'-0"



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ADDITIONS AND RENOVATIONS TO THE
GORDON I.S.D. CAMPUS
FOR GORDON I.S.D.

GORDON, TEXAS 76453

112 RUSK STREET

DRAWN BY: FINCHER

DATE: 28 JULY 2022

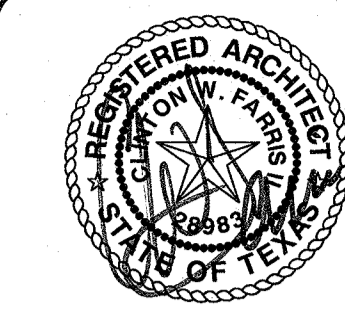
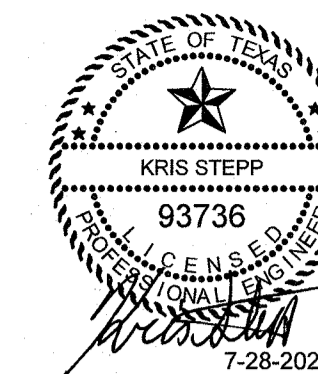
REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NO.

20864.00

SHEET NO.

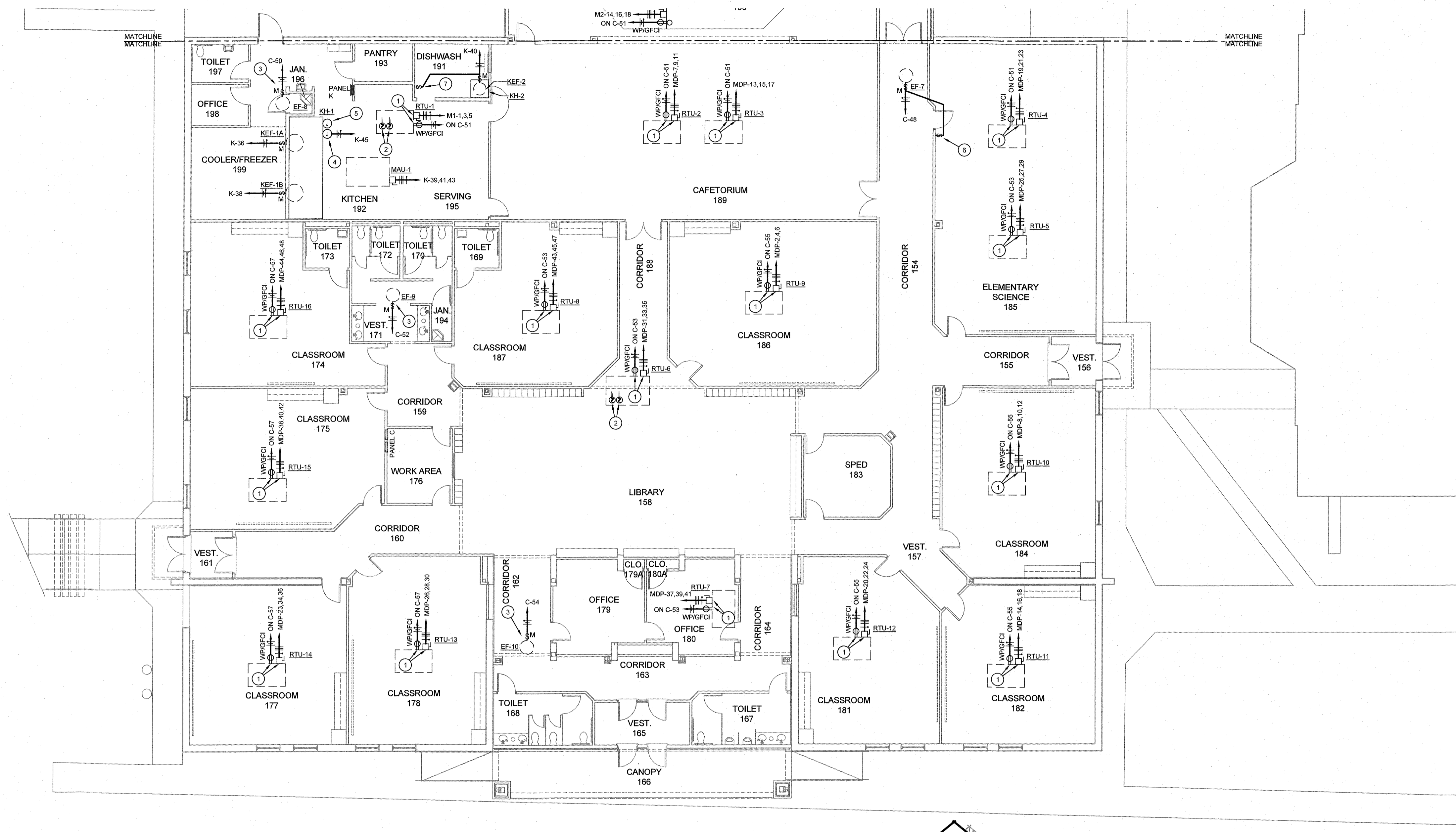
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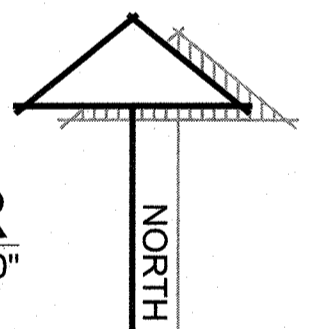
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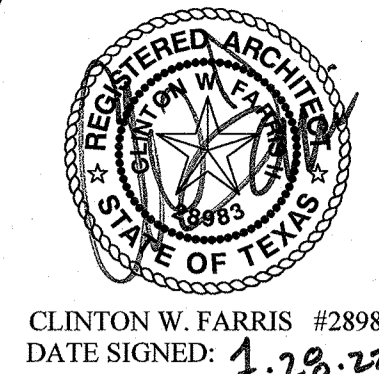
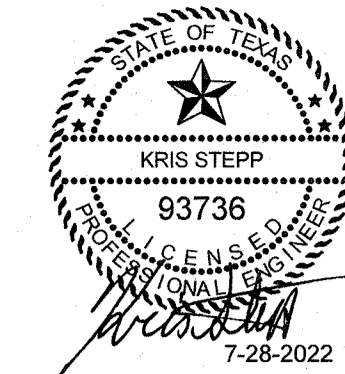
FLOOR PLAN - ELEMENTARY - MECHANICAL POWER
SCALE: 3/32" = 1'-0"



GENERAL NOTES		KEYED NOTES	
A. VERIFY ALL ELECTRICAL INSTALLATIONS WITH LOCAL CODES AND CITY ORDINANCES PRIOR TO INSTALLATION.	L. ALL RECEPTACLES IN AREAS SPECIFIED SHALL BE TAMPER RESISTANT INCLUDING: HOTEL GUEST ROOMS, DWELLING UNITS, CHILD CARE FACILITIES, PRESCHOOL/ELEMENTARY EDUCATION FACILITIES, MEDICAL CLINICS, MEDICAL OFFICES, MEDICAL OUTPATIENT FACILITIES, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS, AND DORMITORIES AS REQUIRED BY NEC ARTICLE 406.12	1. DISCONNECT AND RECEPTACLE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE LOCATION OF DISCONNECT AND RECEPTACLE WITH MECHANICAL CONTRACTOR AND MANUFACTURER TO AVOID NAMEPLATES, MAINTENANCE ACCESS DOORS, ETC.	
B. IT IS ASSUMED THAT ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO THE OWNER.	M. PROVIDE LOCAL DISCONNECTS FOR ALL EQUIPMENT THAT IS PROVIDED WITH DIRECT CONNECTION (NON-PLUG RECEPTACLE). ANY DISCONNECTS THAT ARE PROVIDED IN AREAS SUBJECT TO MOISTURE (I.E. DISHWASHING AREAS) SHALL BE STAINLESS STEEL AND RATED FOR NEMA 4X.	2. DUCT MOUNTED SMOKE DETECTORS. INSTALL DETECTORS AND SAMPLE TUBES ON THE SUPPLY AND RETURN AIR DUCTS OF HVAC UNIT. COORDINATE LOCATION OF DETECTORS WITH HVAC MANUFACTURER. CONNECT DETECTORS TO SHUT DOWN AIR HANDLING UNIT UPON DETECTOR ALARM. EXTEND AND CONNECT TO FIRE ALARM CONTROL PANEL. CONTRACTOR PROVIDE REMOTE TEST AND RE-SET SWITCH FOR DETECTORS. INSTALL REMOTE SWITCH IN ADJACENT MECHANICAL/ELECTRICAL ROOM.	
C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT POWER REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. TERMINATE AS DIRECTED BY EQUIPMENT NAME PLATES. COORDINATE EXACT LOCATION FOR INSTALLATIONS WITH OWNER PRIOR TO ROUGH-IN. NOTIFY ENGINEER IF ALTERNATE POWER IS REQUIRED.	N. PROVIDE 120V POWER FOR EACH HOOD SUPPRESSION SYSTEM AND EXTEND AND CONNECT TO THE BUILDING FACP UPON ACTIVATION. PROVIDE FOR ALL INTERLOCKING REQUIREMENTS TO ACCOMPLISH THE CONTROLS SEQUENCE INDICATED.	3. ROUTE EXHAUST FANS THROUGH TIME CLOCK/CONTRACTOR LOCATED IN MECHANICAL ROOM 200. REFER TO SHEET E302 FOR ADDITIONAL INFORMATION.	
D. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND TEMPERATURE CONTROLS WITH MECHANICAL PLANS. PROVIDE 1" CONDUIT AT EACH THERMOSTAT. REFER TO MECHANICAL PLANS FOR LOCATIONS.	O. ALL SINGLE PHASE 120, 208V RECEPTACLES RATED AT 50 AMPS OR LESS AND ALL THREE PHASE 120/208V RECEPTACLES RATED 100 AMPS OR LESS SHALL BE A GFCI TYPE RECEPTACLE OR GFCI CIRCUIT BREAKER AS REQUIRED BY NEC ARTICLE 210.8.(B)	4. 120V HOOD LIGHTS AND CONTROLS. COORDINATE JUNCTION BOX LOCATION WITH MANUFACTURER.	
E. PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.	P. PROVIDE DUCT MOUNTED SMOKE DETECTORS/SAMPLING TUBES IN THE SUPPLY AND RETURN AIR DUCTS OF ALL OF THE HVAC OPERATING OVER 2000 CFM. THE CONTRACTOR SHALL FIELD VERIFY THE NUMBER AND LOCATION OF THE UNITS.	5. PROVIDE FIRE ALARM MONITOR MODULE FOR KITCHEN FIRE SUPPRESSION SYSTEM. EXTEND AND CONNECT TO FACP FOR CONTROL.	
F. PROVIDE MOTOR RATED SWITCHES FOR EACH 120V HVAC CONNECTIONS. OVERLOADS SHALL MATCH MOTOR RATING.	Q. CONNECT DUCT DETECTORS TO SHUT DOWN INDIVIDUAL HVAC UNIT UPON DETECTOR ALARM. PROVIDE FIRE ALARM CONNECTION TO SMOKE DETECTORS AND FIRE/SMOKE DAMPERS. REFER TO MECHANICAL FOR SMOKE AND FIRE/SMOKE DAMPER LOCATIONS AND SHUT DOWN FANS REGARDLESS OF UNIT CFM. REFER TO MECHANICAL/ELECTRICAL SCHEDULE FOR HVAC UNITS REQUIRING DUCT MOUNTED SMOKE DETECTORS. PROVIDE 120V CONNECTION TO ALL FIRE/SMOKE DAMPERS	6. SWITCH TO CONTROL EXHAUST FAN "EF-7". PROVIDE LABEL ON SWITCH INDICATING LOAD. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER.	
G. CONTRACTOR SHALL PROVIDE NEMA 3R DISCONNECT SWITCHES FOR ALL EXTERIOR HVAC EQUIPMENT. INTERIOR DRY LOCATION DISCONNECT ENCLOSURES SHALL BE RATED NEMA 1.	R. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT.	7. SWITCH TO CONTROL DISHWASHING EXHAUST FAN "KEF-2". PROVIDE LABEL ON SWITCH INDICATING LOAD. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER.	
H. ALL CONDUITS SERVING ROOF-MOUNTED EQUIPMENT SHALL BE EXTENDED INSIDE THE UNIT CURBS TO AVOID ADDITIONAL PITCHPANS. ALL EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR LIQUID TIGHT FLEXIBLE CONDUIT AS SPECIFIED.	S. PROVIDE INTERFACE CONNECTION FOR ALL KITCHEN HOODS TO THE NEW FIRE ALARM CONTROL PANEL TO INITIATE GENERAL ALARM UPON ACTIVATION OF ANY HOOD SUPPRESSION SYSTEM. PROVIDE ALL NECESSARY INTERFACE RELAYS AND COORDINATE FOR 120 VOLT POWER REQUIREMENTS AS REQUIRED.		
I. DATA/TELEPHONE/TV OUTLETS SHALL BE INSTALLED WITH 3/4" CONDUIT EXTENDED TO AN ACCESSIBLE POINT ABOVE CEILING AND PROVIDED WITH PULL STRING. COORDINATE ALL TELEPHONE, TV AND DATA LOCATIONS WITH OWNER. PROVIDE INSULATED BUSHING ON BOTH ENDS OF CONDUIT.			
J. WHERE GFCI PROTECTION IS REQUIRED BY CODE AND CONNECTION IS LOCATED BEHIND EQUIPMENT, CONTRACTOR SHALL PROVIDE GFCI CIRCUIT BREAKER IN LIEU OF GFCI OUTLET.			
K. IN COMMERCIAL KITCHEN, PROVIDE GFI CIRCUIT BREAKERS AS INDICATED IN NEC ARTICLE 210.8(B).			

ADDITIONS AND RENOVATIONS TO THE
GORDON I.S.D. CAMPUS
 FOR GORDON I.S.D.
 112 RUSK STREET
 GORDON, TEXAS 76453

DRAWN BY: FINCHER		
DATE: 28 JULY 2022		
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PROJECT NO. 20864.00		
SHEET NO. E301		

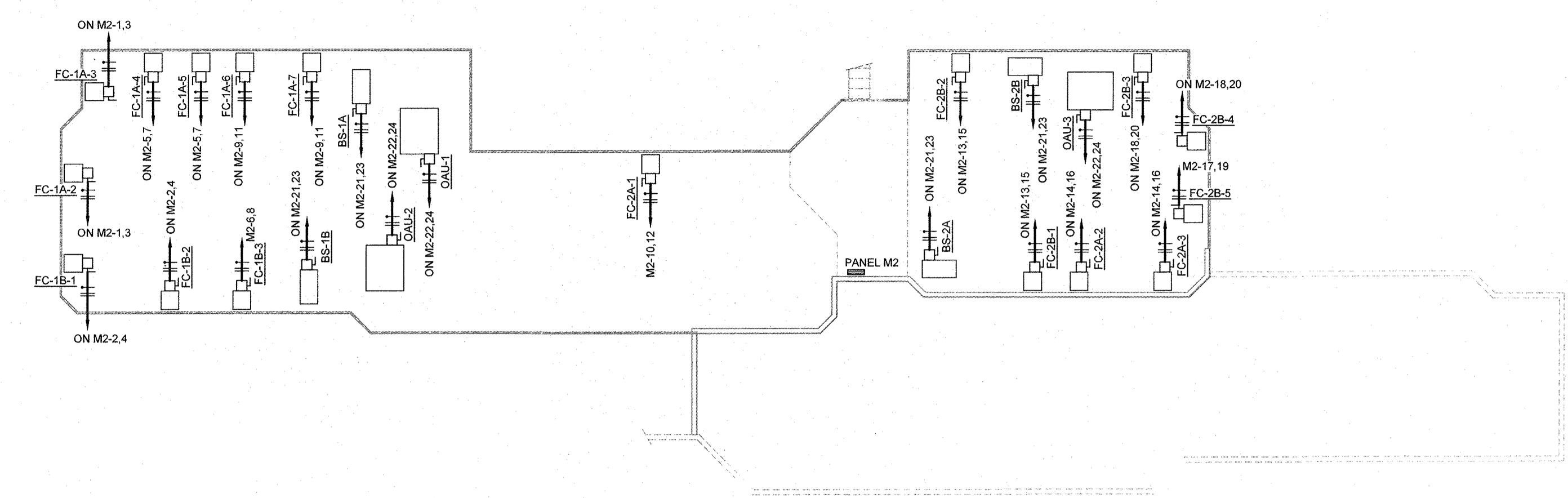


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- GENERAL NOTES**
- VERIFY ALL ELECTRICAL INSTALLATIONS WITH LOCAL CODES AND CITY ORDINANCES PRIOR TO INSTALLATION.
 - IT IS ASSUMED THAT ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO THE OWNER.
 - THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT POWER REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. TERMINATE AS DIRECTED BY EQUIPMENT NAME PLATES. COORDINATE EXACT LOCATION FOR INSTALLATIONS WITH OWNER PRIOR TO ROUGH-IN. NOTIFY ENGINEER IF ALTERNATE POWER IS REQUIRED.
 - VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND TEMPERATURE CONTROLS WITH MECHANICAL PLANS. PROVIDE 1" CONDUIT AT EACH THERMOSTAT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
 - PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.
 - PROVIDE MOTOR RATED SWITCHES FOR EACH 120V HVAC CONNECTIONS. OVERLOADS SHALL MATCH MOTOR RATING.
 - CONTRACTOR SHALL PROVIDE NEMA 3R DISCONNECT SWITCHES FOR ALL EXTERIOR HVAC EQUIPMENT. INTERIOR DRY LOCATION DISCONNECT ENCLOSURES SHALL BE RATED NEMA 1.
 - ALL CONDUITS SERVING ROOF-MOUNTED EQUIPMENT SHALL BE EXTENDED INSIDE THE UNIT CURBS TO AVOID ADDITIONAL PITCHPANS. ALL EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR LIQUID TIGHT FLEXIBLE CONDUIT AS SPECIFIED.
 - DATA/TELEPHONE/TV OUTLETS SHALL BE INSTALLED WITH 3/4" CONDUIT EXTENDED TO AN ACCESSIBLE POINT ABOVE CEILING AND PROVIDED WITH PULL STRING. COORDINATE ALL TELEPHONE, TV AND DATA LOCATIONS WITH OWNER. PROVIDE INSULATED BUSHING ON BOTH ENDS OF CONDUIT.
 - WHERE GFCI PROTECTION IS REQUIRED BY CODE AND CONNECTION IS LOCATED BEHIND EQUIPMENT, CONTRACTOR SHALL PROVIDE GFCI CIRCUIT BREAKER IN LIEU OF GFCI OUTLET.
 - ALL RECEPTACLES IN AREAS SPECIFIED SHALL BE TAMPER RESISTANT INCLUDING: HOTEL GUEST ROOMS, DWELLING UNITS, CHILD CARE FACILITIES, PRESCHOOL/ELEMENTARY EDUCATION FACILITIES, MEDICAL CLINICS, MEDICAL OFFICES, MEDICAL OUTPATIENT FACILITIES, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS, AND DORMITORIES AS REQUIRED BY NEC ARTICLE 406.12
 - PROVIDE DUCT MOUNTED SMOKE DETECTORS/SAMPLING TUBES IN THE SUPPLY AND RETURN AIR DUCTS OF ALL OF THE HVAC OPERATING OVER 2000 CFM. THE CONTRACTOR SHALL FIELD VERIFY THE NUMBER AND LOCATION OF THE UNITS.
 - CONNECT DUCT DETECTORS TO SHUT DOWN INDIVIDUAL HVAC UNIT UPON DETECTOR ALARM. PROVIDE FIRE ALARM CONNECTION TO SMOKE DETECTORS AND FIRE/SMOKE DAMPERS. REFER TO MECHANICAL FOR SMOKE AND FIRE/SMOKE DAMPER LOCATIONS AND SHUT DOWN FANS REGARDLESS OF UNIT CFM. REFER TO MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE FOR HVAC UNITS REQUIRING DUCT MOUNTED SMOKE DETECTORS. PROVIDE 120V CONNECTION TO ALL FIRE/SMOKE DAMPERS
 - ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT.

- KEYED NOTES**
- ROUTE CIRCUIT THROUGH EMERGENCY SHUT-DOWN CONTACTOR. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.
 - INTERMATIC ELECTRONIC TIME SWITCH # ET1105C. TIME CLOCK SHALL CONTROL EXHAUST FANS EF-1,6,8,9,10. COORDINATE TIMER PROGRAMMING WITH OWNER. PROVIDE 20A CONTACTOR IN A NEMA1 ENCLOSURE FOR EXHAUST FANS. PROVIDE NUMBER OF POLES AS REQUIRED.
 - PROVIDE UNI-STRUT EQUIPMENT RACK FOR DISCONNECTS AND RECEPTACLE. COORDINATE EQUIPMENT RACK MOUNTING WITH ROOFING CONTRACTOR AND ARCHITECT.
 - 208V, 1Ø MINI-SLIP UNIT "MS-1". CONTRACTOR SHALL EXTEND CONDUIT FROM OUTDOOR UNIT TO INDOOR UNIT AS REQUIRED BY MANUFACTURER AND NEC.



FLOOR PLAN - MEZZANINE - MECHANICAL POWER
SCALE: 3/32" = 1'-0"



FLOOR PLAN - SECONDARY - MECHANICAL POWER
SCALE: 3/32" = 1'-0"

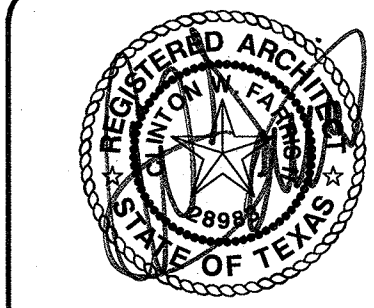
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 FOR GORDON I.S.D.
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DRAWN BY: FINCHER
DATE: 28 JULY 2022

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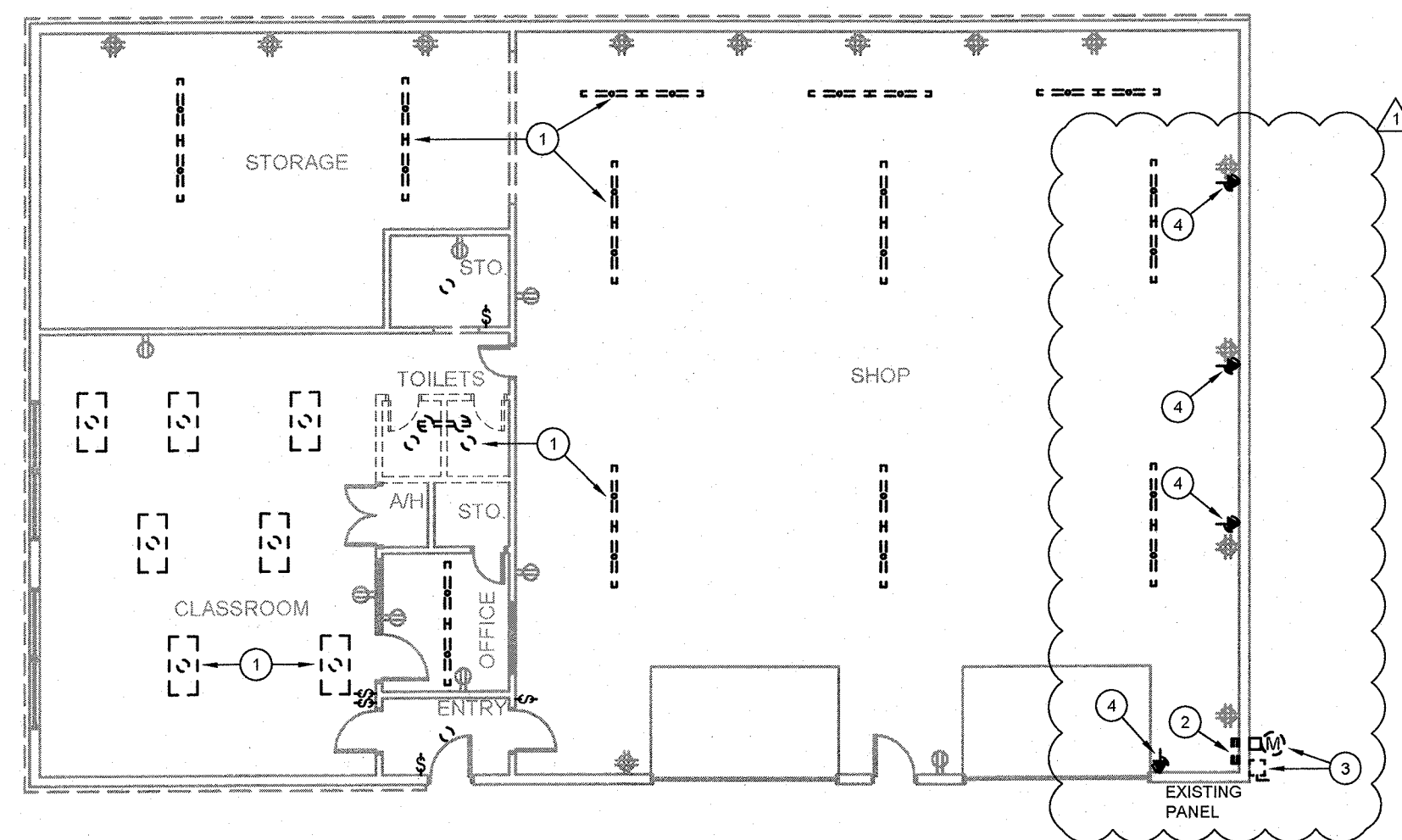
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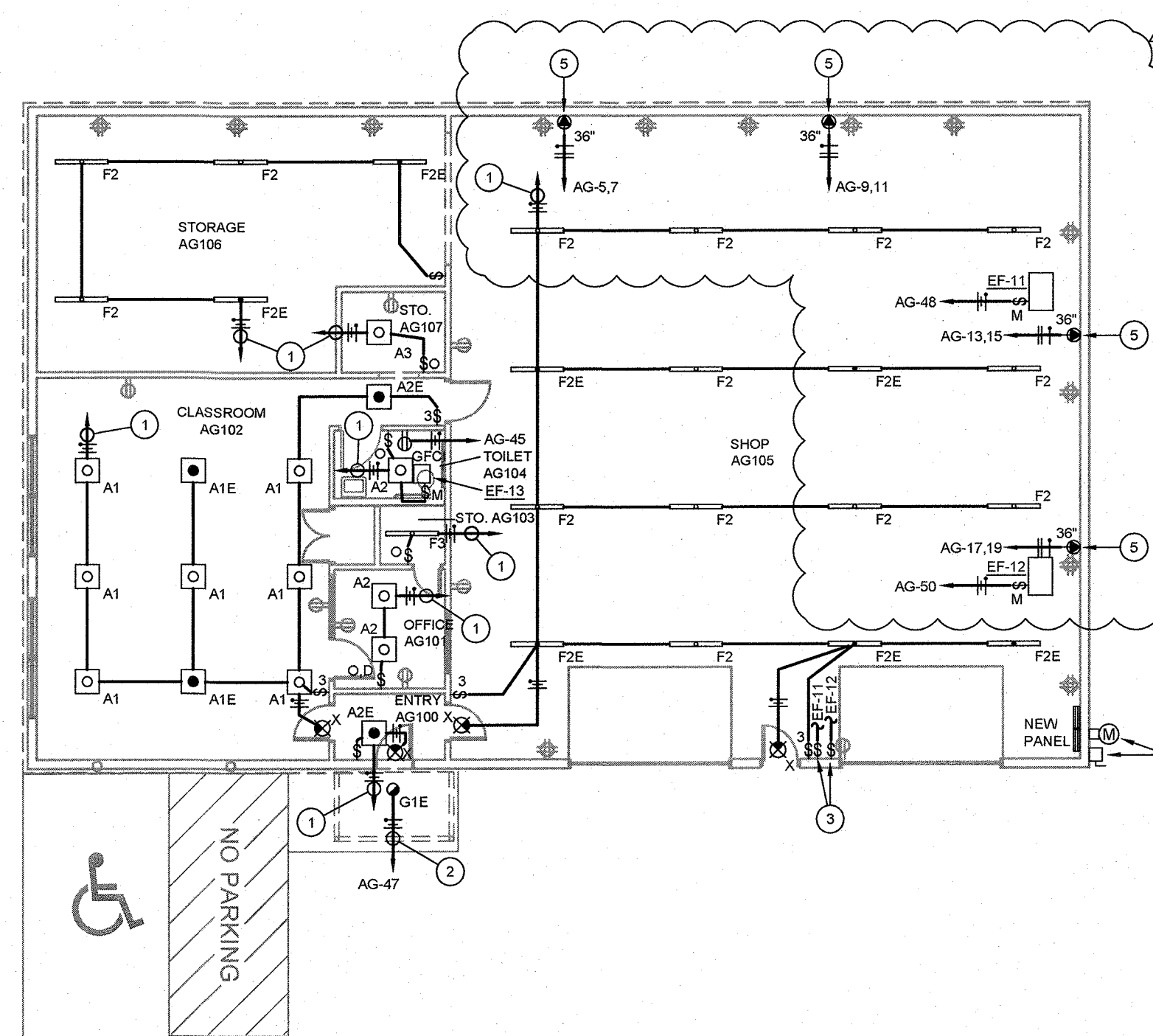
CLINTON W. FARRIS #28983
DATE SIGNED: 8-25-22

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FLOOR PLAN - AG BUILDING - ELECTRICAL DEMOLITION
SCALE: 3/32" = 1'-0" NORTH



FLOOR PLAN - AG BUILDING - ELECTRICAL
SCALE: 3/32" = 1'-0" NORTH

DEMOLITION GENERAL NOTES

- A. ALL ELECTRICAL DEVICES SHOWN DASHED, OR ON DASHED WALLS, ALONG WITH ALL WIRING AND CONDUIT ASSOCIATED WITH DEVICE SHALL BE REMOVED BACK TO POINT OF ORIGIN UNLESS NOTED OTHERWISE.
- B. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EARTHWORK.
- C. VERIFY EXACT LOCATION OF ALL DEVICES AND CONDUIT TO REMAIN.
- D. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL PANEL CONNECTIONS PRIOR TO PANEL REMOVAL/RELOCATION. THE CONTRACTOR IS RESPONSIBLE FOR EXTENDING AND CONNECTING ALL FEEDER BRANCH CIRCUITS/CONDUITS TO REMAIN. CONTRACTOR SHALL SIZE CONDUCTOR/CONDUIT IN ACCORDANCE WITH NEC.
- E. ALL DOWNSTREAM DEVICES NOT BEING REMOVED AS PART OF THIS PROJECT SHALL REMAIN ACTIVE. THIS INCLUDES BUT NOT LIMITED TO RECEPTACLES, LIGHTS, FIRE ALARM, DATA, AND COMMUNICATION OUTLETS/WIRING.
- F. ALL POWER AND COMMUNICATIONS OUTAGES SHALL BE COORDINATED WITH OWNER AND ARCHITECT PRIOR TO OUTAGE. PROVIDE TEMPORARY CONNECTIONS (POWER AND COMMUNICATION WIRING) TO EQUIPMENT TO MAINTAIN SERVICE DURING CONSTRUCTION AS REQUIRED.

DEMOLITION KEYED NOTES

- 1. EXISTING LIGHT FIXTURE AND ASSOCIATED CONTROLS TO BE REMOVED. CIRCUIT SHALL REMAIN FOR REUSE.
- 2. EXISTING PANEL TO BE REMOVED. ALL EXISTING BRANCH CIRCUITS SHALL BE REMOVED AND RELOCATED/EXTENDED TO NEW PANEL AS REQUIRED IN ACCORDANCE WITH NEC. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING.
- 3. EXISTING MAIN DISCONNECT AND KWH METER TO BE REMOVED AND REPLACED. REFER TO AG BUILDING ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 4. EXISTING 240V WELDER OUTLET TO BE REMOVED. REMOVE WIRE AND CONDUIT BACK TO PANEL AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS.

GENERAL NOTES

- A. VERIFY EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
- B. VERIFY ALL ELECTRICAL INSTALLATIONS WITH LOCAL CODES AND CITY ORDINANCES PRIOR TO INSTALLATION.
- C. VERIFY AND COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- D. ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO OWNER.
- E. PROVIDE AN UN-SWITCHED HOT (BALLAST/DRIVER) TO ALL EMERGENCY FIXTURES ROUTED THRU LIGHTING CONTROLS TO PROVIDE EMERGENCY OPERATION.
- F. PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.
- G. LIGHTING CONTROL WIRING SHALL BE ROUTED IN SEPARATE CONDUIT/PATHWAY FROM POWER WIRING.
- H. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT POWER REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. TERMINATE AS DIRECTED BY EQUIPMENT NAME PLATES. COORDINATE EXACT LOCATION FOR INSTALLATIONS WITH OWNER PRIOR TO ROUGH-IN. NOTIFY ENGINEER IF ALTERNATE POWER IS REQUIRED.
- I. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND TEMPERATURE CONTROLS WITH MECHANICAL PLANS. PROVIDE 1" CONDUIT AT EACH THERMOSTAT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
- J. PROVIDE MOTOR RATED SWITCHES FOR EACH 120V HVAC CONNECTIONS. OVERLOADS SHALL MATCH MOTOR RATING.
- K. CONTRACTOR SHALL PROVIDE NEMA 3R DISCONNECT SWITCHES FOR ALL EXTERIOR HVAC EQUIPMENT. INTERIOR DRY LOCATION DISCONNECT ENCLOSURES SHALL BE RATED NEMA 1.
- L. ALL CONDUITS SERVING ROOF-MOUNTED EQUIPMENT SHALL BE EXTENDED INSIDE THE UNIT CURBS TO AVOID ADDITIONAL PITCHPANS. ALL EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR LIQUID TIGHT FLEXIBLE CONDUIT AS SPECIFIED.
- M. DATA/TELEPHONE/TV OUTLETS SHALL BE INSTALLED WITH 3/4" CONDUIT EXTENDED TO AN ACCESSIBLE POINT ABOVE CEILING AND PROVIDED WITH FULL STRING. COORDINATE ALL TELEPHONE, TV AND DATA LOCATIONS WITH OWNER. PROVIDE INSULATED BUSHING ON BOTH ENDS OF CONDUIT.
- N. WHERE GFCI PROTECTION IS REQUIRED BY CODE AND CONNECTION IS LOCATED BEHIND EQUIPMENT. CONTRACTOR SHALL PROVIDE GFCI CIRCUIT BREAKER IN LIEU OF GFCI OUTLET.
- O. ALL RECEPTACLES IN AREAS SPECIFIED SHALL BE TAMPER RESISTANT INCLUDING: HOTEL GUEST ROOMS, DWELLING UNITS, CHILD CARE FACILITIES, PRESCHOOL/ELEMENTARY EDUCATION FACILITIES, MEDICAL CLINICS, MEDICAL OFFICES, MEDICAL OUTPATIENT FACILITIES, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS, AND DORMITORIES AS REQUIRED BY NEC ARTICLE 406.12

KEYED NOTES

- 1. EXTEND AND CONNECT TO EXISTING LIGHTING CIRCUIT SERVING AREA.
- 2. ROUTE CIRCUIT THROUGH EXTERIOR LIGHTING CONTROLS.
- 3. SWITCH TO CONTROL CORRESPONDING EXHAUST FAN. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT. PROVIDE LABEL ON SWITCH INDICATING LOAD.
- 4. NEW MAIN DISCONNECT AND KWH METER. REFER TO AG BUILDING ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 5. 240V WELDER OUTLET. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH ARCHITECT AND OWNER.

ADDITIONS AND RENOVATIONS TO THE
GORDON I.S.D. CAMPUS
 FOR GORDON I.S.D.
 112 RUSK STREET
 GORDON, TEXAS 76453

DRAWN BY: FINCHER

DATE: 28 JULY 2022

REVISIONS

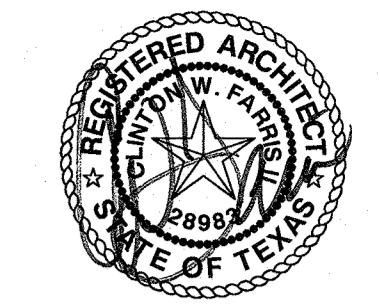
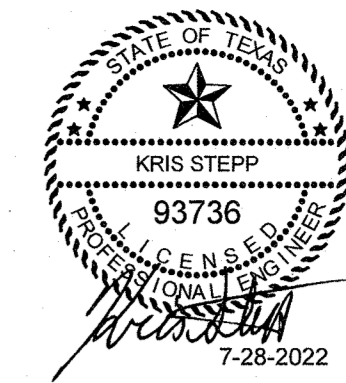
NO.	DESCRIPTION	DATE
#1	ELECTRICAL AG BUILDING	8-25-2022

PROJECT NO.

20864.00

SHEET NO.

E401



CLINTON W. FARRIS #28983
DATE SIGNED: 4-28-22

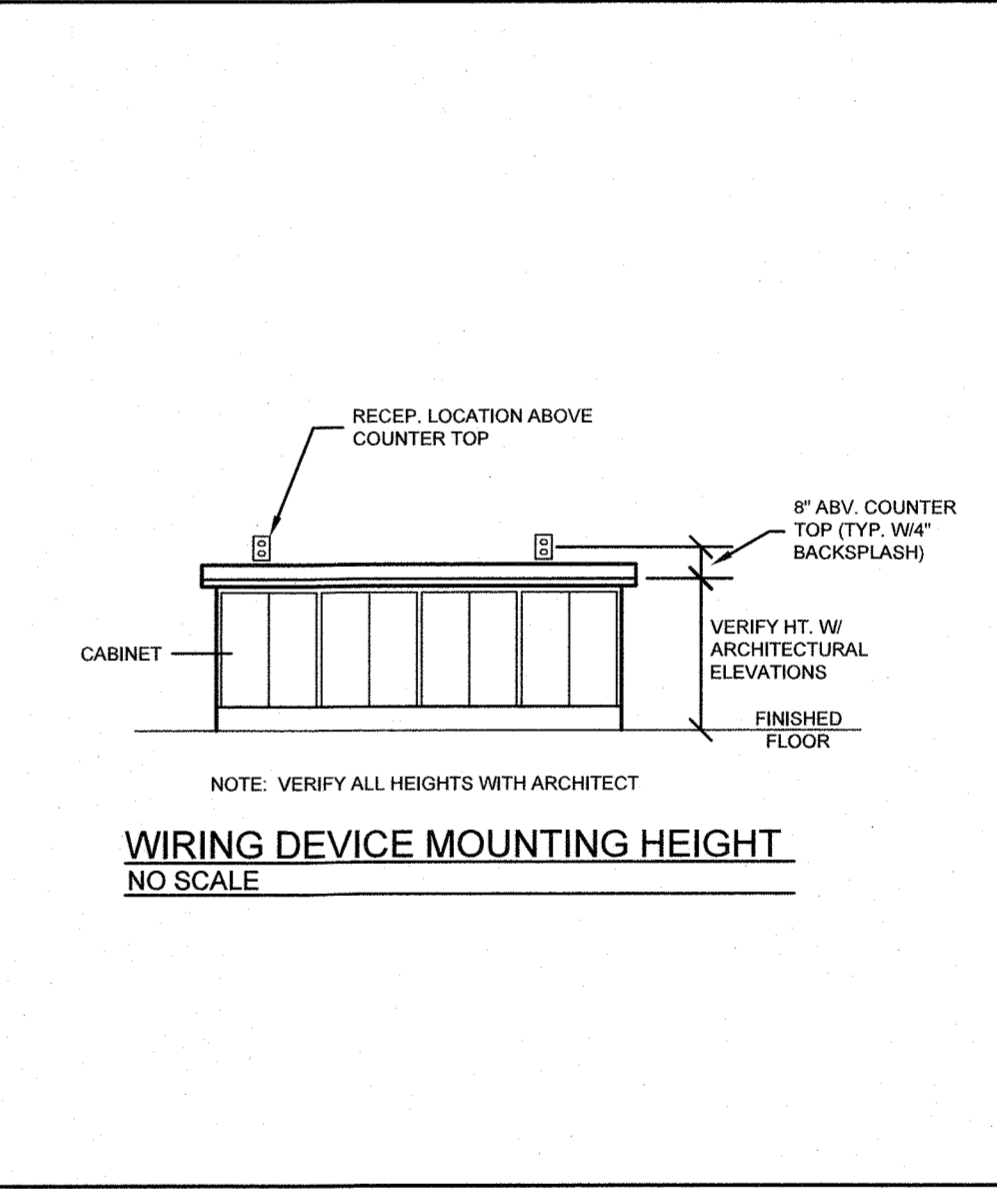
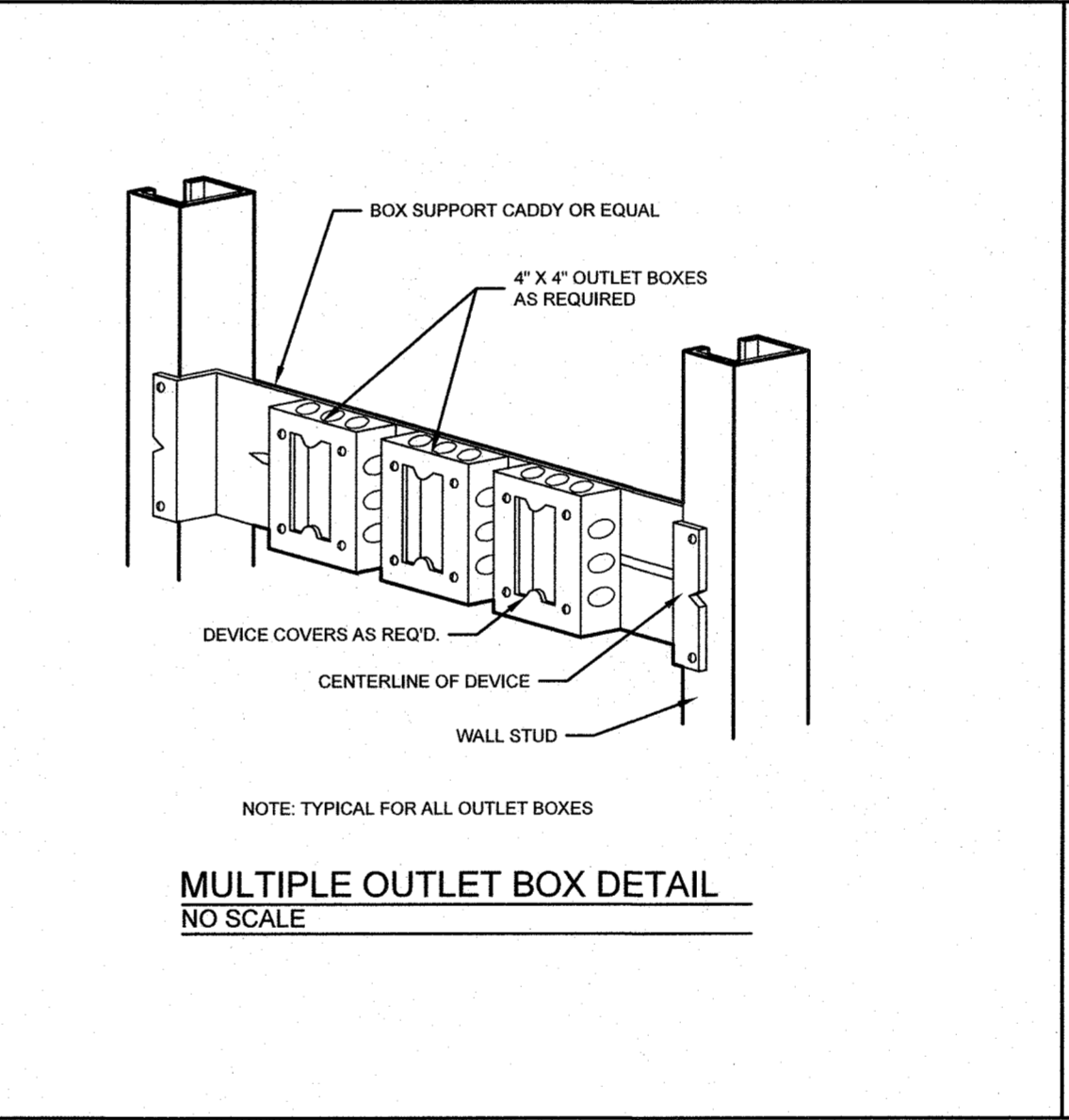
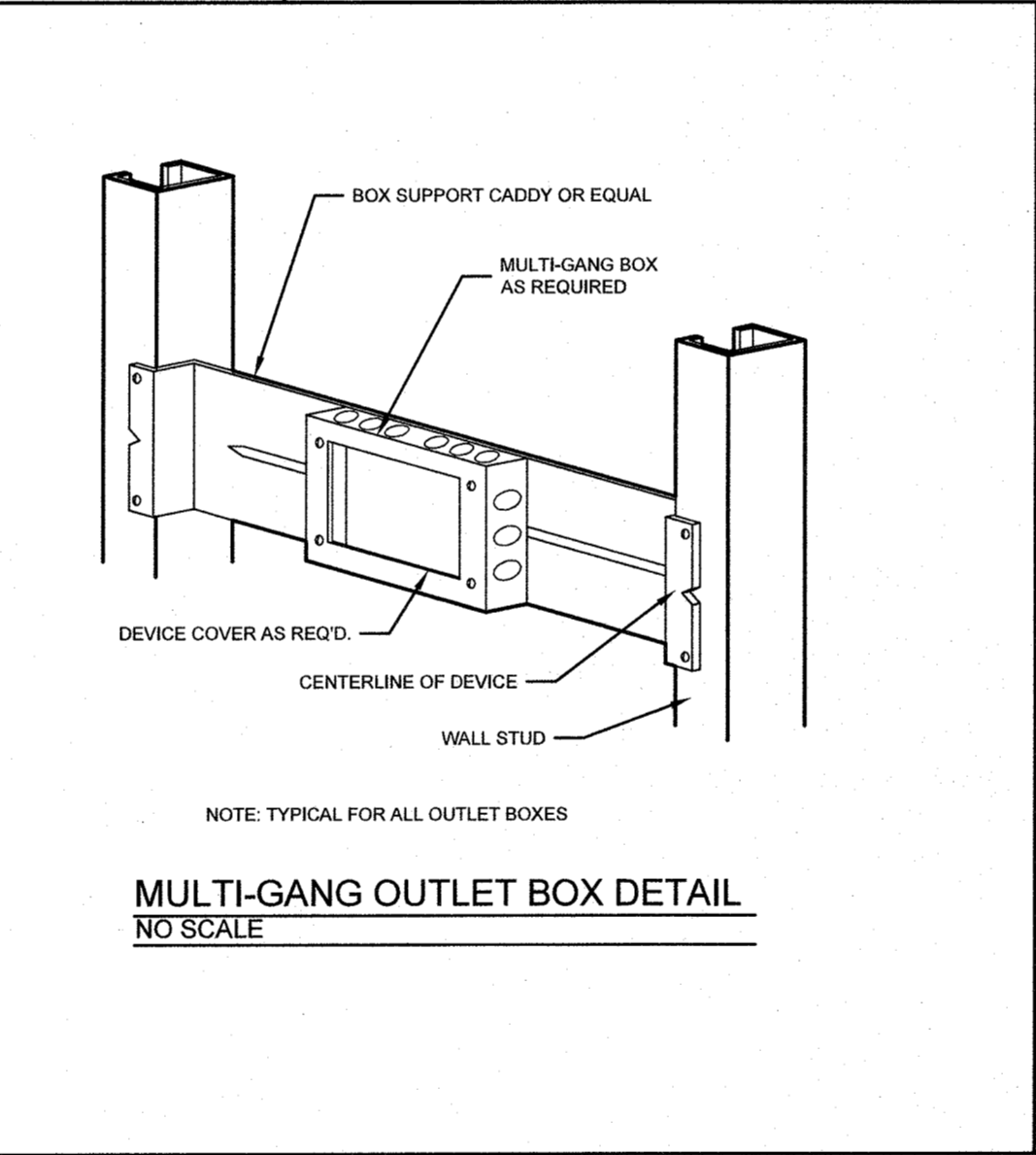
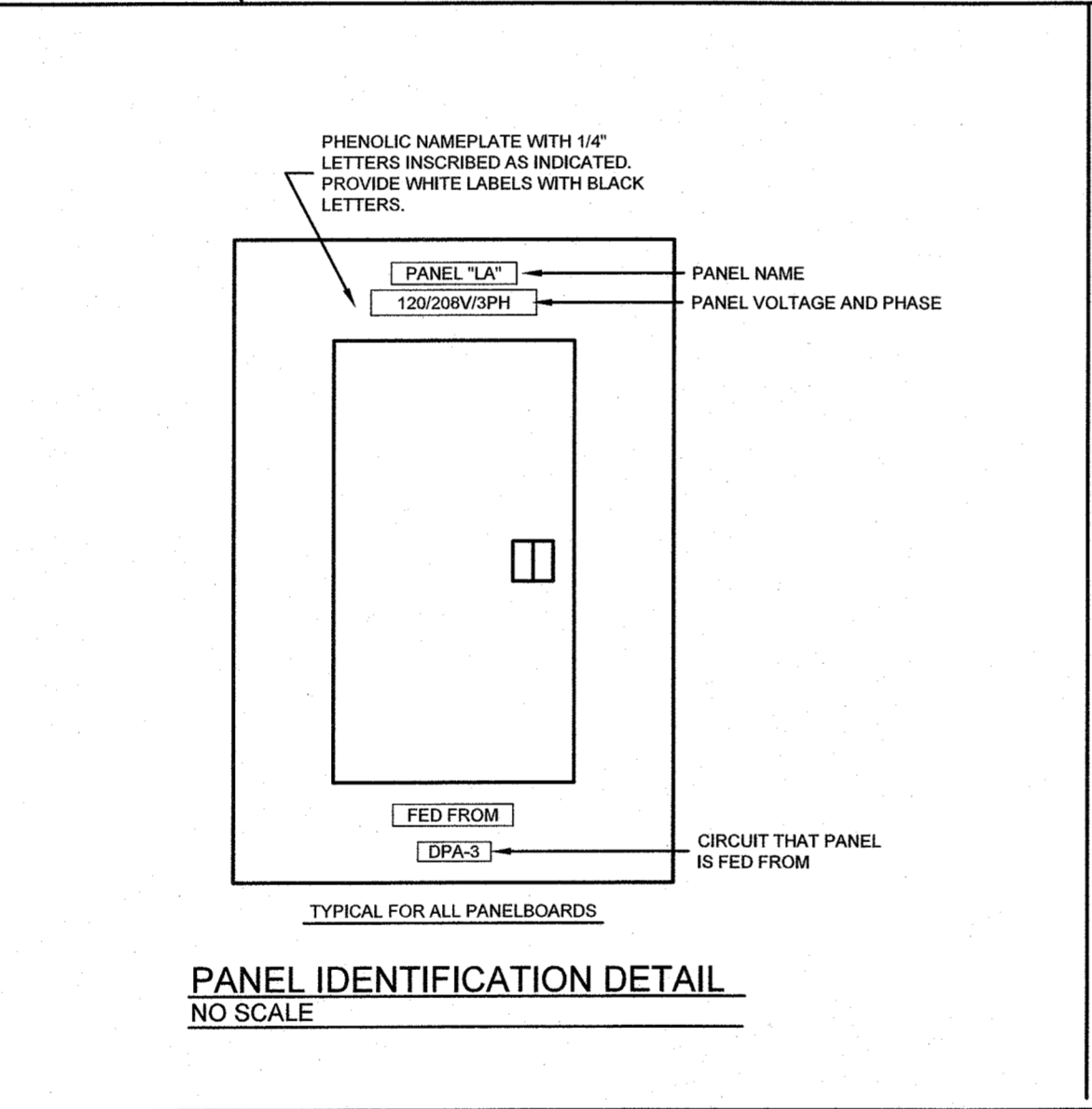
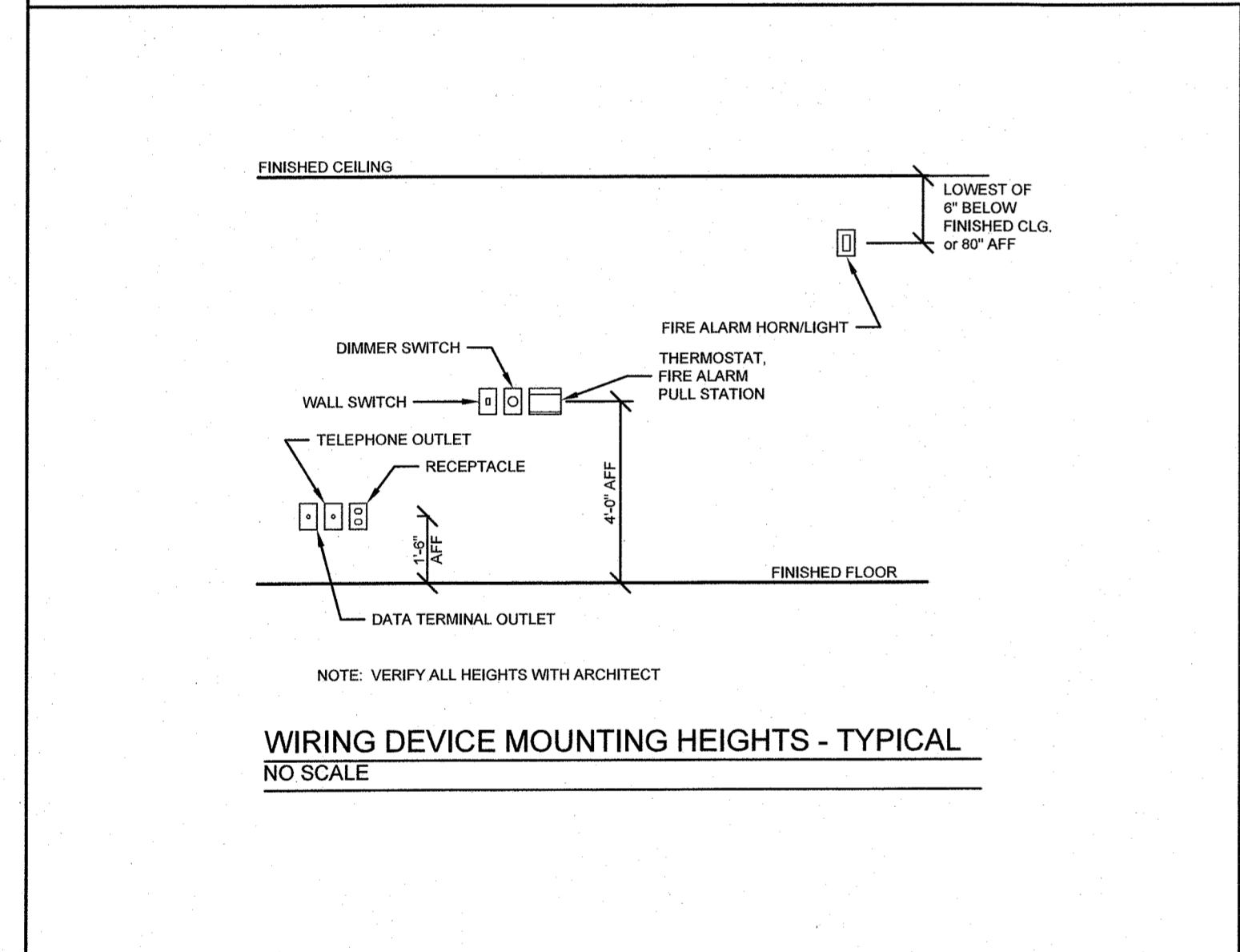
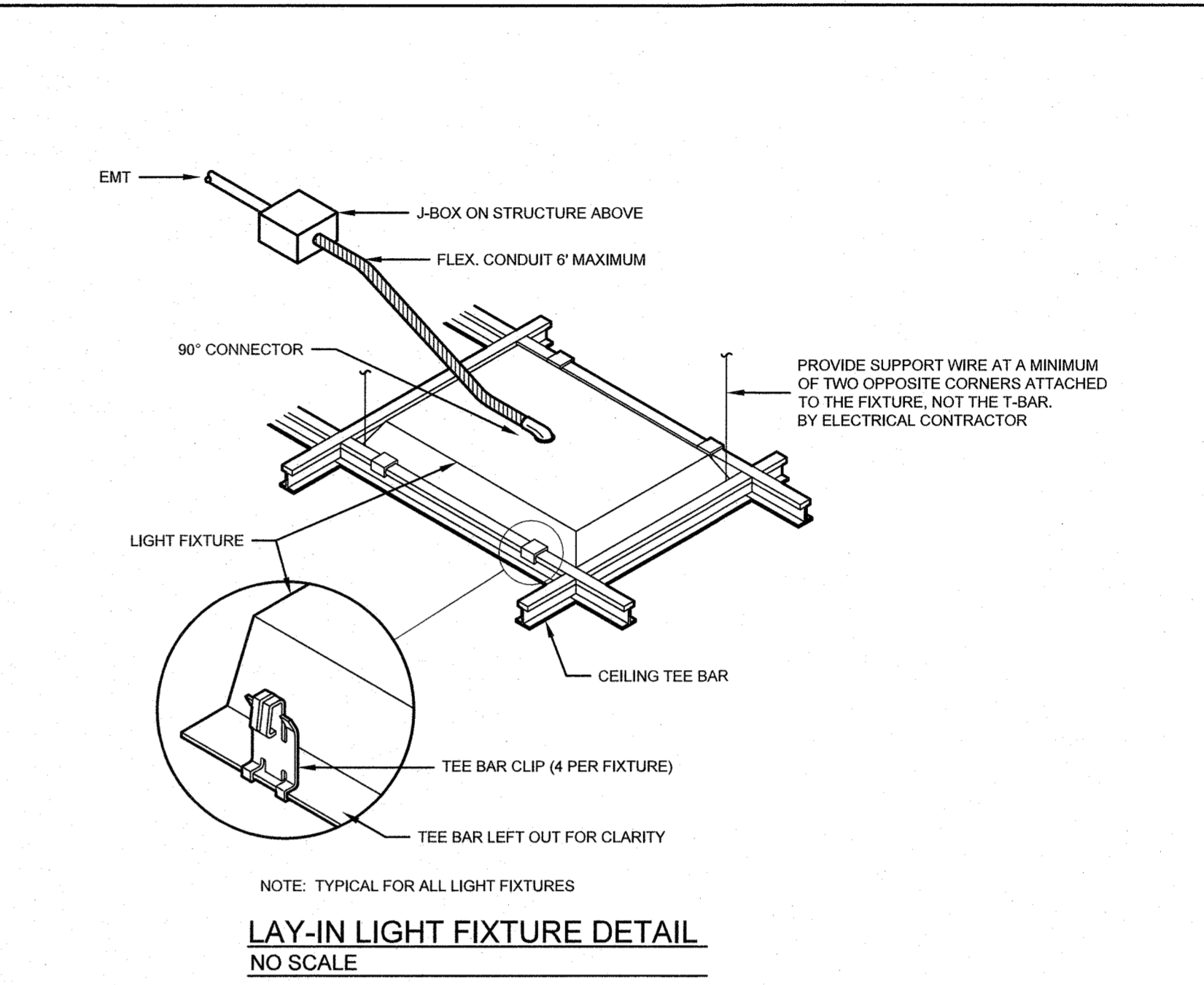
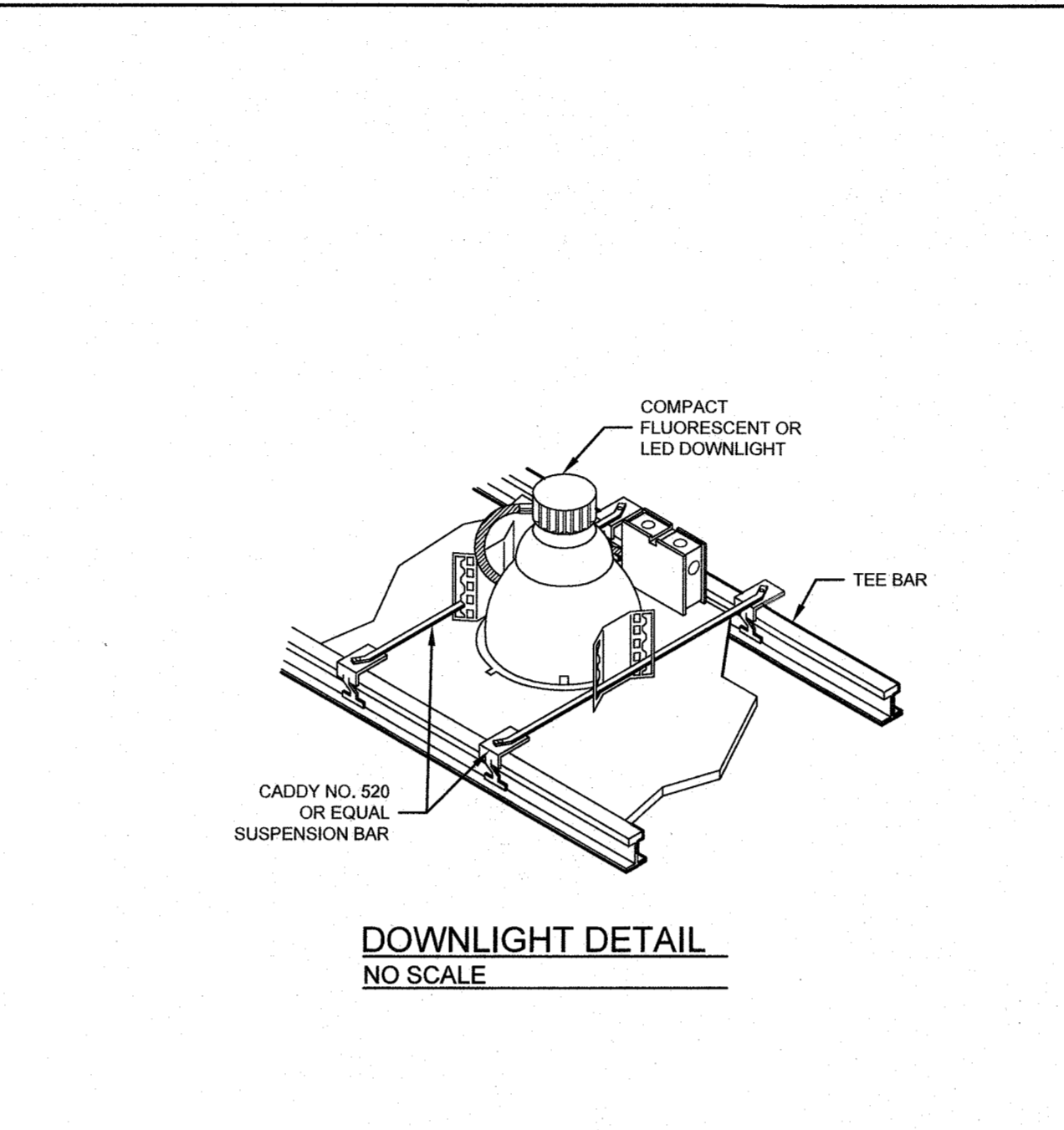
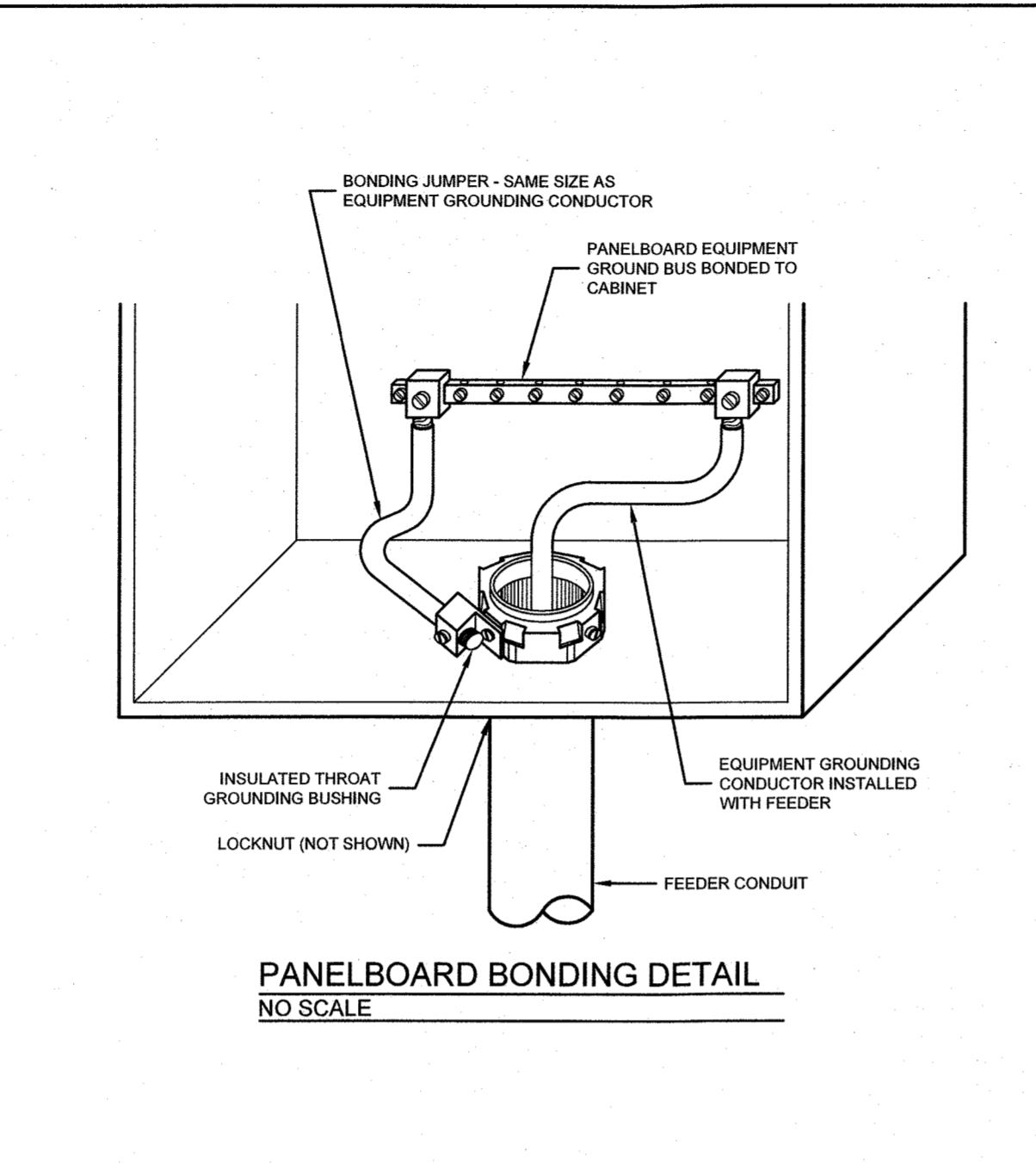
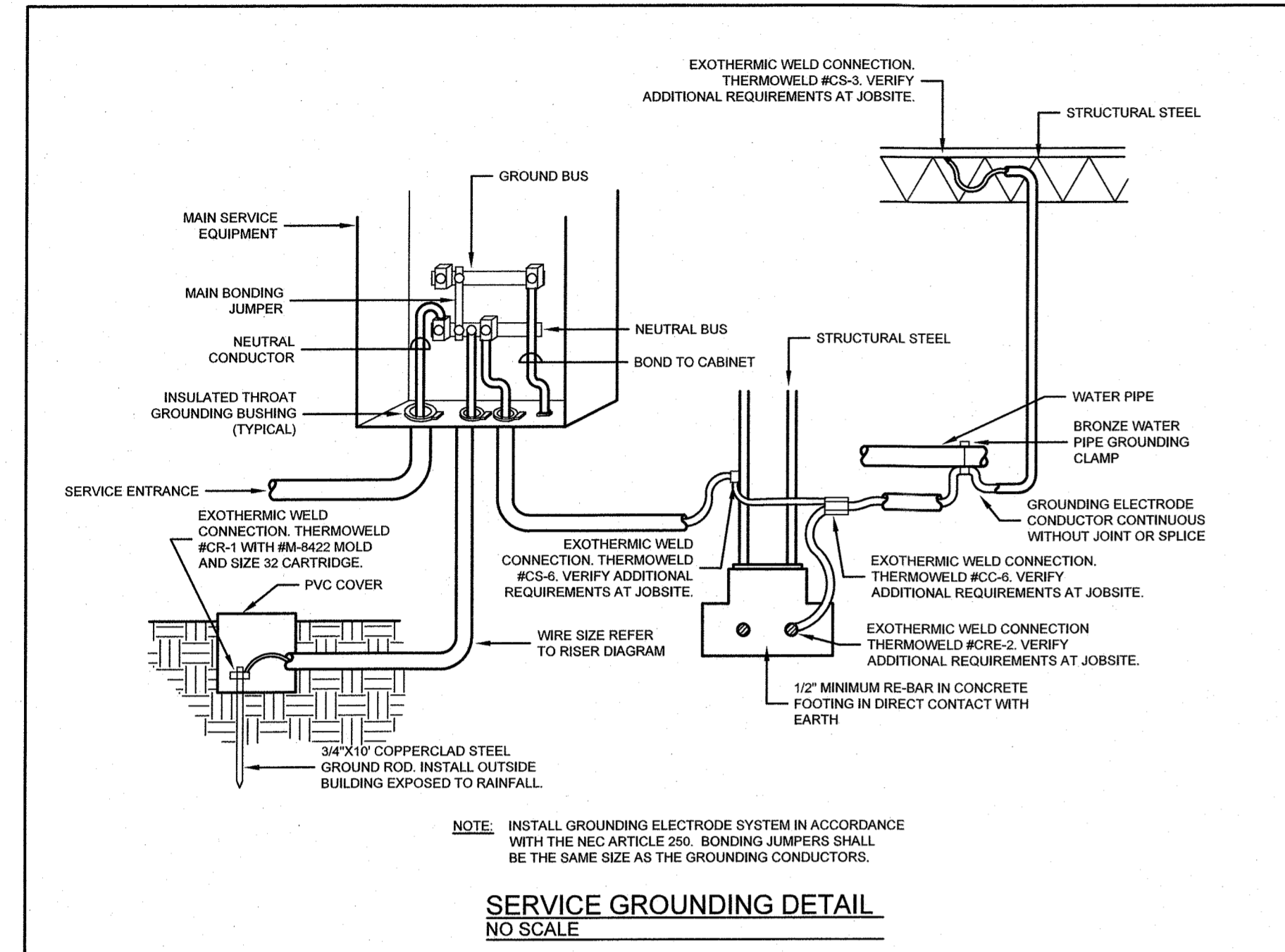
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ADDITIONS AND RENOVATIONS TO THE
GORDON I.S.D. CAMPUS
FOR GORDON I.S.D.

GORDON, TEXAS 76453

112 RUSK STREET



LIGHTING CONTROL DETAILS			
ROOMS WITH THESE LIGHTING CONTROL SYMBOLS (REFER TO PLAN FOR EXACT LOCATIONS)	TYPICAL LOCATION (REFER TO PLAN FOR EXACT LOCATIONS)	LIGHTING CONTROL DESCRIPTION	EXAMPLE MODEL #S
	OFFICE, SMALL RESTROOM, STORAGE, CLOSET	WALL MOUNTED WALL BOX CONTROL WITH VACANCY/OCCUPANCY SENSOR. "D" INDICATES DIMMER SWITCH.	SWITCH (VD): LUTRON MS-Z101 SWITCH (O AND V): LUTRON MS-A102 SWITCH (D): LUTRON LOW VOLTAGE DIMMER
	LARGE RESTROOM, LARGE ROOM, CLASSROOM	OCCUPANCY/VACANCY CONTROLLED WITH CEILING MOUNTED SENSORS AND WALL MOUNT SWITCH FOR OCCUPANCY/VACANCY SENSOR OVERRIDE	POWER PACK 1: LUTRON PP-DV OS/V/S SENSORS: LUTRON LOS-CDT WALL SWITCH: LUTRON LOW VOLTAGE SWITCH

NOTES:
A. REFER TO MANUFACTURER'S DETAILS FOR LIGHTING CONTROL WIRING DIAGRAMS.
B. COORDINATE WITH LIGHTING CONTROLS MANUFACTURER PRIOR TO ROUGH-IN OF ANY CONDUIT OR WIRING FOR LIGHTING SYSTEM TO VERIFY WIRING REQUIREMENTS WITH LIGHTING CONTROL SYSTEM PROVIDED ON PROJECT. SENSOR SHALL PROVIDE COVERAGE OF ROOM/AREA. PROVIDE ADDITIONAL SENSORS AS REQUIRED BY MANUFACTURER.
C. LIGHTING CONTROL SYSTEM TO BE FULLY COMMISSIONED AND PROGRAMMED BY FACTORY TRAINED MANUFACTURERS REPRESENTATIVE. PROVIDE COMPLETE TRAINING TO OWNER. CONTRACTOR SHALL CONTACT MANUFACTURER AT LEAST 3 WEEKS PRIOR TO COMPLETION OF WORK TO SCHEDULE COMMISSIONING.

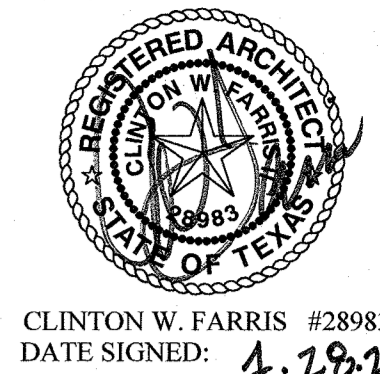
DRAWN BY: FINCHER

DATE: 28 JULY 2022

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NO.
20864.00

SHEET NO.
E501

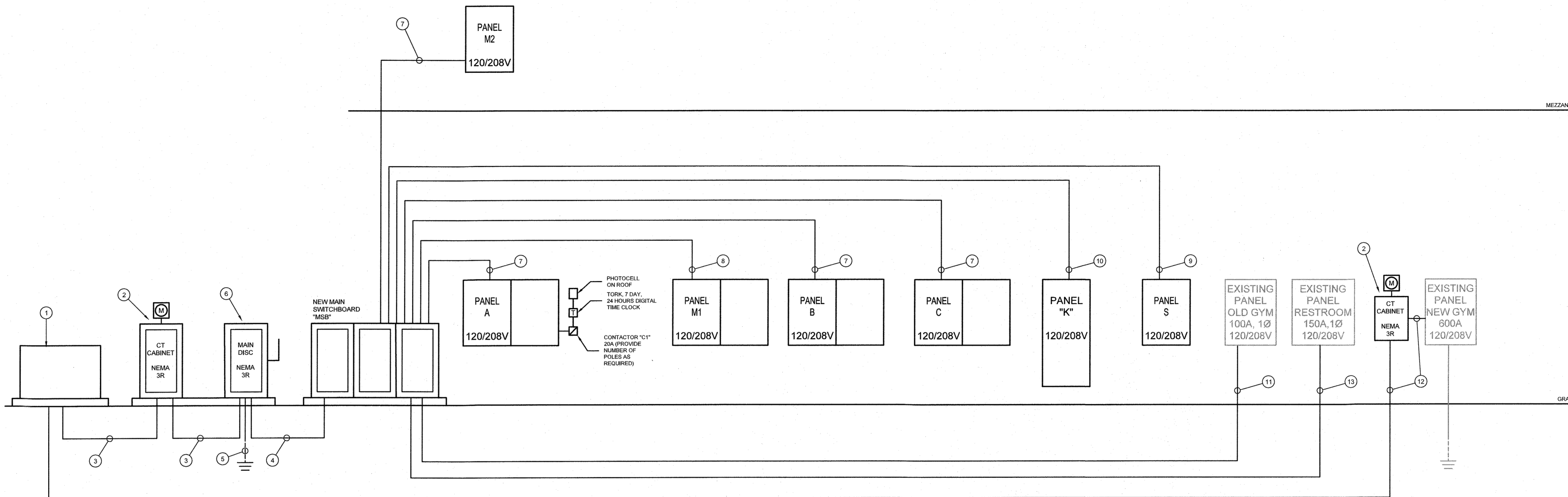


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ADDITIONS AND RENOVATIONS TO THE
GORDON I.S.D. CAMPUS
 FOR GORDON I.S.D.
 112 RUSK STREET
 GORDON, TEXAS 76453

- RISER DIAGRAM GENERAL NOTES**
- COORDINATE ALL SITE CONDITIONS PRIOR TO BID.
 - COORDINATE ALL ELECTRICAL UTILITY REQUIREMENTS WITH UTILITY COMPANY PRIOR TO BID.
 - ALL ELECTRICAL ITEMS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL ORDINANCES AND CODES.
 - ALL METERING REQUIREMENTS MUST BE COORDINATED WITH UTILITY COMPANY PRIOR TO BID INCLUDE ALL CTS, CABINET AND BASES AS DIRECTED BY UTILITY COMPANY.
- KEYED NOTES**
- NEW 120/208V, 3Ø, 4-WIRE PAD MOUNTED TRANSFORMER. PROVIDE CONCRETE PAD AND TRENCHING AS REQUIRED BY UTILITY COMPANY.
 - KWH METER BASE AND CT CABINET BY CONTRACTOR. COORDINATE SERVICE ENTRANCE REQUIREMENTS WITH UTILITY COMPANY.
 - SIX SETS OF (4) #500 KCMIL EACH IN 4" CONDUIT.
 - SIX SETS OF (4) #500 KCMIL + #250 GND EACH IN 4" CONDUIT.
 - #3/0 GND IN 1" CONDUIT.
 - 2000A/3P ENCLOSED CIRCUIT BREAKER(SERVICE ENTRANCE RATED) IN A NEMA 3R ENCLOSURE. MINIMUM AIC SHALL BE 73,493.
 - (4) #4/0 + #4 GND IN 2-1/2" CONDUIT.
 - TWO SETS OF (4) #500 KCMIL + #1/0 GND EACH IN 4" CONDUIT.
 - (4) #2 + #8 GND IN 1-1/2" CONDUIT.
 - (4) #500 KCMIL + #3 GND IN 4" CONDUIT.
 - (3) #2 + #8 GND IN 1-1/2" CONDUIT.
 - TWO SETS OF (4) #350 KCMIL EACH IN 3-1/2" CONDUIT.
 - (3) #1/0 + #6 GND IN 2" CONDUIT.



**ELECTRICAL RISER DIAGRAM
NEW SCHOOL BUILDING
NO SCALE**

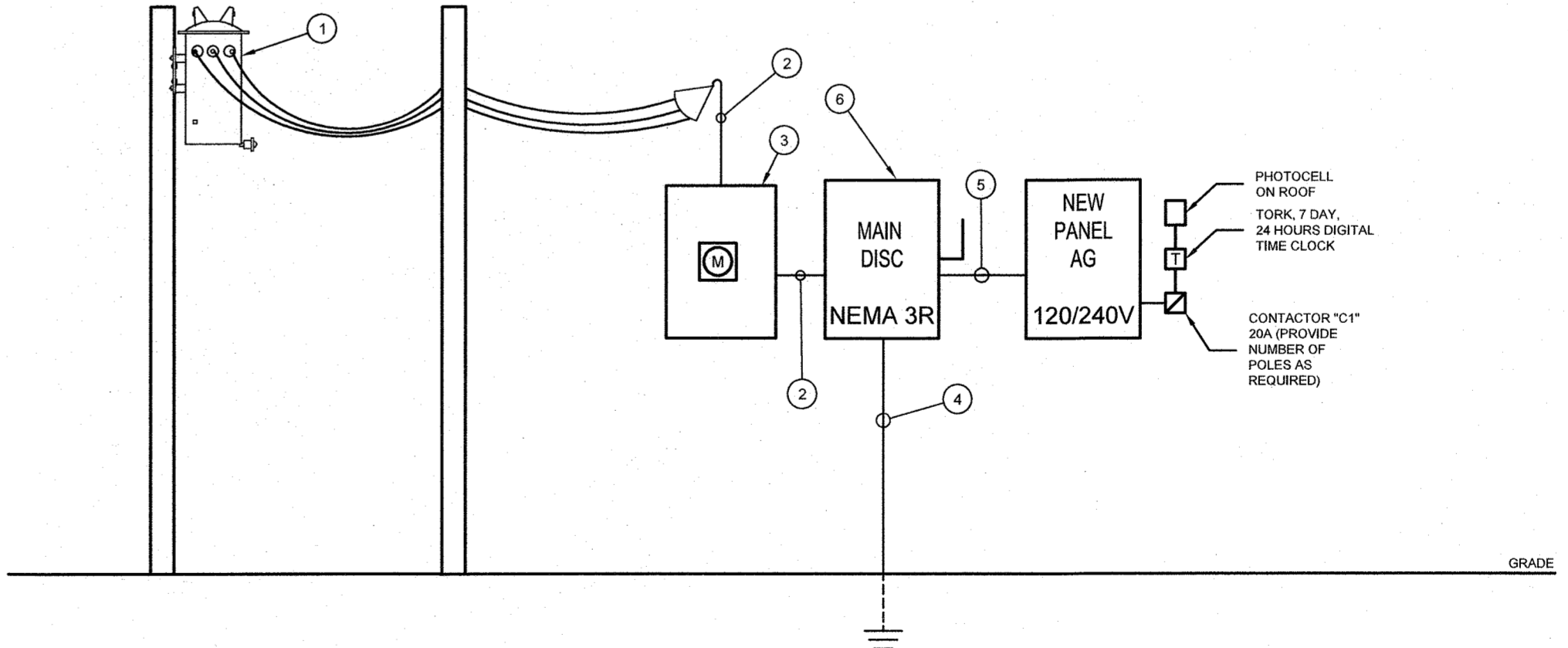
NOTE: VERIFY ALL SERVICE ENTRANCE REQUIREMENTS WITH UTILITY COMPANY AND CITY REQUIREMENTS PRIOR TO BID AND INCLUDE ALL LABOR AND MATERIALS (MAIN DISCONNECTS, CT CABINETS, METER BASE, CONCRETE, CONDUIT AND CONDUCTORS) NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

WIRE AND CONDUIT SIZING CHART

BREAKER	15	20	25	30	35	40	45	50	60	70	80	90	100	125	150	175	200	225	300	400	
PHASE	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL	
NEUTRAL	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL	
GROUND	#12	#12	#10	#10	#10	#10	#10	#10	#10	#8	#8	#8	#6	#6	#6	#6	#4	#4	#4	#4	#3
CONDUIT	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"	2"	2"	2-1/2"	3"	4"	

- NOTES:
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL CONDUCTORS AND CONDUIT SHALL BE SIZED FROM THIS CHART.
 - ALL 120V LIGHTING AND POWER CIRCUITS OVER 75' SHALL BE #10 THHN.
 - LOCAL DISCONNECT SIZES SHALL BE BASED ON CIRCUIT BREAKER RATING/SIZE.

- RISER DIAGRAM GENERAL NOTES**
- COORDINATE ALL SITE CONDITIONS PRIOR TO BID.
 - COORDINATE ALL ELECTRICAL UTILITY REQUIREMENTS WITH UTILITY COMPANY PRIOR TO BID.
 - ALL ELECTRICAL ITEMS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL ORDINANCES AND CODES.
 - ALL METERING REQUIREMENTS MUST BE COORDINATED WITH UTILITY COMPANY PRIOR TO BID INCLUDE ALL CTS, CABINET AND BASES AS DIRECTED BY UTILITY COMPANY.
- RISER DIAGRAM KEYED NOTES**
- EXISTING 120/240V, 1Ø, 3W POLE MOUNTED TRANSFORMER BY UTILITY COMPANY. ELECTRICAL CONTRACTOR SHALL COORDINATE EQUIPMENTS WITH UTILITY COMPANY.
 - (3) #500KCMIL IN 4" CONDUITS. PROVIDE WEATHER HEAD AND RISER AS REQUIRED. COORDINATE REQUIREMENTS WITH UTILITY COMPANY.
 - METER IN NEMA 3 ENCLOSURE AS DIRECTED BY UTILITY COMPANY. COORDINATE REQUIREMENTS WITH UTILITY COMPANY.
 - #1/0 GND IN 1" CONDUIT.
 - (3) #500KCMIL AND #3 GND IN 4" CONDUIT.
 - 400A/2P ENCLOSED CIRCUIT BREAKER(SERVICE ENTRANCE RATED) IN A NEMA 3R ENCLOSURE. MINIMUM AIC SHALL BE 10,000A



**ELECTRICAL RISER DIAGRAM
AG BUILDING
NO SCALE**

NOTE: VERIFY ALL SERVICE ENTRANCE REQUIREMENTS WITH UTILITY COMPANY AND CITY REQUIREMENTS PRIOR TO BID AND INCLUDE ALL LABOR AND MATERIALS (MAIN DISCONNECTS, CT CABINETS, METER BASE, CONCRETE, CONDUIT AND CONDUCTORS) NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

DRAWN BY: FINCHER

DATE: 28 JULY 2022

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NO.
20864.00

SHEET NO.

E601

Fault Current

Project Name: Gordon ISD
 Project Number: Kris Stepp, P.E.
 Designed By: Kris Stepp, P.E.
 Item Name: -NONE-
 Notes: -NONE-

Calculation of Fault Current
 Fault SCA Source = TA Primary Infinite
 SCA Available = Infinite
 Length Units = Feet
 Motor Load = None
 Motor SCA = None
 Motor SCA Treatment = Motor SCA Not Included
 System Voltage = 208
 System Phase = 3 Phase

Transformers

Name	PH	Size	Pri.V	Sec.V	%Z	SCA,3PH	
TA	utility	3-PH	500	12470	208	1.6	86,744
Name	Cond	Cable	Size	Qty	Feet	SCA,3PH	
S/F main disc	PVC, ABS	1/c, CU	500	6	40	73,493	

Main Feeders

Name	Cond	Cable	Size	Qty	Feet	SCA,3PH
F1 switchboard msb	PVC	1/c, CU	500	6	40	63,754

F1 Sub-Feeders

Name	Cond	Cable	Size	Qty	Feet	SCA,3PH
S1 panel a	EMT	1/c, CU	4/0	1	10	47,156
S2 panel s	EMT	1/c, CU	2	1	20	22,791
S3 panel k	EMT	1/c, CU	500	1	50	29,026
S4 panel m1	EMT	1/c, CU	500	2	20	51,444
S5 panel b	None	1/c, CU	4/0	1	150	11,038
S6 panel m2	None	1/c, CU	4/0	1	150	11,038
S7 panel c	None	1/c, CU	4/0	1	100	15,238

File Name: E:\22-077 (Gordon ISD)\Electrical\short.edr
 Date Created: 8/1/2022 12:33:42 PM
 Date Modified: 8/1/2022 12:45:43 PM
 Source: EDR, Electrical Designer's Reference
 Software Version: 11.1 (Build 17) Based on the 2011 NEC®.
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MOUNTING SURFACE SWITCHBOARD "MDP"
 208/120 VOLTS 3 PHASE 4 WIRE + GR. MAINS 2,000A MLO
 BUS 2,000 AMPS.
 MINIMUM AIC. 63,754 AMPS.

DESCRIPTION	LOAD / PHASE			BKR	CKT NO.	NOTES	CKT NO.	BKR	LOAD / PHASE			DESCRIPTION
	A	B	C						A	B	C	
PANEL M1	86712	86712			1		2		9476			PANEL M2
					3		4	225	8592			
					5		6			7860		
PANEL A	16882			225	7		8		16138			PANEL B
		16637			9		10	225		15860		
			15259		11		12			15004		
PANEL C	13742			225	13		14		800			PANEL S
		16126			15		16	100		400		
			15598		17		18			1000		
PANEL K	19890			400	19		20	150	6000			EXISTING PORTABLE RR
		23482			21		22			6000		
			19576		23		24					SPACE ONLY
EXISTING OLD GYM	7200			100	25		26					SPD
SPACE ONLY					27		28					
					29		30					
SPARE				400	31		32					SPARE
					33		34	225				
					35		36					
SPACE				100	37		38					SPACE
					39		40	100				
					41		42					

CONNECTED LOAD: 518,856
 PHASE A: 176840 AMPS 1474
 PHASE B: 181009 AMPS 1508
 PHASE C: 161009 AMPS 1342

NOTES:
 1. PROVIDE INTEGRAL MOUNTED SURGE PROTECTION DEVICE (SPD) 240KA. MODES: L-L, L-G, L-N, N-G
 2. PROVIDE SWITCHBOARD WITH ENERGY REDUCTION SWITCH AS REQUIRED BY NEC.

MOUNTING SURFACE PANEL "A"
 208/120 VOLTS 3 PHASE 4 WIRE + GR. MAINS 225A MLO
 BUS 225 AMPS.
 MINIMUM AIC. 47,156 AMPS.

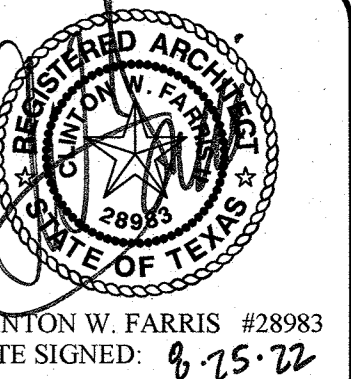
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	A	B	C						A	B	C	
LIGHTS	1440			20	1		2	20	926			LIGHTS
LIGHTS		1117		20	3		4	20		841		LIGHTS
LIGHTS			1088	20	5		6	20			1215	LIGHTS
LIGHTS	1286			20	7		8	20	1030			EXT LIGHTS
RECEPTACLE		800		20	9		10	20		600		RECEPTACLE
RECEPTACLE			400	20	11		12	20			600	RECEPTACLE
RECEPTACLE	400			20	13		14	20	600			RECEPTACLE
REFRIGERATOR		1000		20	15		16	20		800		RECEPTACLE
RECEPTACLE			600	20	17		18	20			800	RECEPTACLE
RECEPTACLE	1000			20	19		20	20	800			RECEPTACLE
RECEPTACLE		400		20	21		22	20		400		RECEPTACLE
RECEPTACLE			1000	20	23	1	24	20			1000	EWC
RECEPTACLE	600			20	25		26	20	600			RECEPTACLE
RECEPTACLE		600		20	27		28	20		200		RECEPTACLE
RECEPTACLE			200	20	29		30	20			200	RECEPTACLE
RECEPTACLE	200			20	31		32	20	500			FACP
RECEPTACLE		800		20	33		34	20		400		RECEPTACLE
LAN RACK			500	20	35		36	20			500	LAN RACK
LAN RACK	500			20	37		38	20	800			RECEPTACLE
RECEPTACLE		1000		20	39		40	20		800		RECEPTACLE
RECEPTACLE			1000	20	41		42	20			1000	RECEPTACLE
RECEPTACLE	800			20	43		44	20	1000			RECEPTACLE
RECEPTACLE		800		20	45		46	20		800		RECEPTACLE
RECEPTACLE			1000	20	47		48	20			1000	RECEPTACLE
DOOR SECURITY	1000			20	49		50	20	900			PLUMB SENSOR
WH-4/RECIRC		1650		20	51		52	20		900		PLUMB SENSOR
WH-1,2,3/RECIRC			400	20	53		54	20		800		PLUMB SENSOR
HVAC CONTROL	500			20	55		56	20	200			TIME CLOCK
		780		15	57		58	20		149		EF-1
			780	15	59		60	20			1176	EF-6
MS-1	1800			20	61		62	20				SPARE
SPARE		1900		20	63		64	20				SPARE
SPARE				20	65		66	20				SPARE
SPARE				20	67		68	20				SPARE
SPARE				20	69		70	20				SPARE
SPACE				20	71		72	20				SPACE
SPACE				20	73		74	20				SPACE
SPACE				20	75		76	20				SPACE
SPACE				20	77		78	20				SPACE
SPACE				20	79		80	20				SPACE
SPACE				20	81		82	20				SPACE
SPACE				20	83		84	20				SPACE

CONNECTED LOAD: 48,778
 PHASE A: 16882 AMPS 141
 PHASE B: 16637 AMPS 139
 PHASE C: 15259 AMPS 127

NOTES:
 1. PROVIDE CIRCUIT BREAKER WITH GFCI OPTION.

MOUNTING SURFACE PANEL "B"
 208/120 VOLTS 3 PHASE 4 WIRE + GR. MAINS 225A MLO
 BUS 225 AMPS.
 MINIMUM AIC. 11,038 AMPS.

DESCRIPTION	LOAD / PHASE			BKR	CKT NO.	NOTES	CKT NO.	BKR	LOAD / PHASE			DESCRIPTION
	A	B	C						A	B	C	
LIGHTS	1080			20	1		2	20	1294			LIGHTS
LIGHTS		1215		20	3		4	20		1125		LIGHTS
LIGHTS			878	20	5		6	20			1126	LIGHTS
RECEPTACLE	1000			20	7		8	20	800			RECEPTACLE
RECEPTACLE		900		20	9		10	20		800		RECEPTACLE
RECEPTACLE			1000	20	11		12	20			200	RECEPTACLE
RECEPTACLE	200			20	13		14	20	200			RECEPTACLE
REFRIGERATOR		1000		20	15		16	20		600		RECEPTACLE
RECEPTACLE			800	20	17		18	20			1000	RECEPTACLE
RECEPTACLE	500			20	19		20	20	600			RECEPTACLE
RECEPTACLE		800		20	21		22	20		600		RECEPTACLE
RECEPTACLE			400	20	23		24	20			1000	RECEPTACLE
EWC	1000			20	25	1	26	20	400			RECEPTACLE
RECEPTACLE		600		20	27		28	20		600		RECEPTACLE
RECEPTACLE			600	20	29		30	20			600	RECEPTACLE
RECEPTACLE	600			20	31		32	20	800			RECEPTACLE
RECEPTACLE		500		20	33		34	20		500		RECEPTACLE
RECEPTACLE			1000	20	35		36	20			800	RECEPTACLE
RECEPTACLE	1000			20	37		38	20	1000			RECEPTACLE
RECEPTACLE		800		20	39		40	20		800		RECEPTACLE
RECEPTACLE			1000	20	41		42	20			800	RECEPTACLE
RECEPTACLE	1000			20	43		44	20	600			RECEPTACLE
RECEPTACLE		600		20	45		46	20		800		RECEPTACLE
RECEPTACLE			400	20	47		48	20			600	RECEPTACLE
RECEPTACLE	800			20	49		50	20	200			RECEPTACLE
RECEPTACLE		200		20	51		52	20		600		RECEPTACLE
DOOR SECURITY			600	20	53		54	20			900	PLUMB SENSOR
PA SYSTEM	500			20	55		56	20	700			PLUMB SENSOR
LAB CONTROL		500		20	57		58	20		400		RECEPTACLE
ICE MAKER			1000	20	59	2	60	20			100	EF-2, EF-4
REFRIGERATOR	1000			20	61		62	20	864			EF-5
SPARE				20	63		64	30		1920		SPARE
SPARE				20	65		66	20				SPARE
SPARE				20	67		68	20				SPARE
SPARE				20	69		70	20				SPARE
SPACE				20	71		72	20				SPACE
SPACE				20	73		74	20				SPACE
SPACE				20	75		76	20				SPACE
SPACE				20	77		78	20				SPACE
SPACE				20	79		80	20				



HFA
 ESTABLISHED 1962
 ARCHITECTS - PROGRAMMERS - PLANNERS
 4724 OLD JACKSBORO HIGHWAY
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FINCHER
 ENGINEERING, LLC
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 5621 114TH ST., SUITE 100
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ADDITIONS AND RENOVATIONS TO THE
GORDON I.S.D. CAMPUS
 FOR GORDON I.S.D.
 112 RUSK STREET
 GORDON, TEXAS 76453

DRAWN BY: FINCHER
 DATE: 28 JULY 2022

REVISIONS		
NO.	DESCRIPTION	DATE
01	ELECTRICAL AG BUILDING	8-25-2022

PROJECT NO:
20864.00
 SHEET NO.
E603

PANEL "M2"

MOUNTING SURFACE
 208/120 VOLTS 3 PHASE 4 WIRE + GR.

MAINS 225A MLO
 BUS 225 AMPS.
 MINIMUM A.I.C. 11,038 AMPS.

DESCRIPTION	LOAD / PHASE			BKR	CKT NO.	NOTES	CKT NO.	BKR	LOAD / PHASE			DESCRIPTION
	A	B	C						A	B	C	
FC-1A-2,3	1176			15	1		2	15	1176	1176		FC-1B-1,2
		1176			3		4					
			1176		5		6					
FC-1A-4,5	1176			15	7		8	15	1032	1032		FC-1B-3
					9		10			1032		
					11		12			1032		
FC-1A-6,7		1176		15	13		14	15	1176	1176		FC-2A-1
			1176		15		16					
FC-2B-1,2	1176			15	17		18	15	1176	1176		FC-2A-2,3
			1176		19		20					
FC-2B-5	588			15	21		22	15	1176	1176		FC-2B-3,4
			588		23		24					
BS-1A, 1B, 2A, 2B		312		15	25		26	15		1368		OAU-1,2,3
			312		27		28			1368		
RECEPTACLE	800			20	29		30	15				SPARE
SPARE				20	31		32	20				SPARE
SPARE				20	33		34	20				SPACE
SPARE				20	35		36	20				SPACE
SPARE				20	37		38	20				SPACE
SPARE				20	39		40	20				SPACE
SPARE				20	41		42	20				SPACE
CONNECTED LOAD: 25,928												
PHASE A: 9476 AMPS 79												
PHASE B: 8592 AMPS 72												
PHASE C: 7860 AMPS 66												

NOTES:

PANEL "S"

MOUNTING SURFACE
 208/120 VOLTS 3 PHASE 4 WIRE + GR.

MAINS 100A MLO
 BUS 100 AMPS.
 MINIMUM A.I.C. 22,791 AMPS.

DESCRIPTION	LOAD / PHASE			BKR	CKT NO.	NOTES	CKT NO.	BKR	LOAD / PHASE			DESCRIPTION
	A	B	C						A	B	C	
RECEPTACLE	600			20	1		2	20	200	200		RECEPTACLE
RECEPTACLE		200		20	3		4	20				RECEPTACLE
PROJECTOR			1000	20	5		6	20				SPARE
SPARE				20	7		8	20				SPARE
SPARE				20	9		10	20				SPARE
SPARE				20	11		12	20				SPARE
SPARE				20	13		14	20				SPARE
SPARE				20	15		16	20				SPACE
SPARE				20	17		18	20				SPACE
SPARE				20	19		20	20				SPACE
SPARE				20	21		22	20				SPACE
SPARE				20	23		24	20				SPACE
SPARE				20	25		26	20				SPACE
SPARE				20	27		28	20				SPACE
SPARE				20	29		30	20				SPACE
CONNECTED LOAD: 2,200												
PHASE A: 800 AMPS 7												
PHASE B: 400 AMPS 3												
PHASE C: 1000 AMPS 8												

NOTES:

PANEL "K"

MOUNTING RECESSED
 208/120 VOLTS 3 PHASE 4 WIRE + GR.
 MAX 20" WIDE

MAINS 400A MCB
 BUS 400 AMPS.
 MINIMUM A.I.C. 29,026 AMPS.

DESCRIPTION	LOAD / PHASE			BKR	CKT NO.	NOTES	CKT NO.	BKR	LOAD / PHASE			DESCRIPTION
	A	B	C						A	B	C	
FROST TOP	408			20	1	1	2	30	2250	2250		HOT WELL
ICE MAKER	1920			20	3	1	4					
REFRIGERATOR		396		20	5	1	6			2340		HOT WATER DISP
FREEZER	600			20	7	1	8	30				
HEAT CABINET		2000		20	9		10					SHUNT-TRIP
SHUNT-TRIP				20	11		12			336		MIXER
RECEPTACLE	200			20	13		14	20	336			
SHUNT-TRIP				20	15		16			336		
OVEN		924		20	17		18	15		828		COOLER CONDENSING
SHUNT-TRIP				20	19		20		828			
OVEN		924		20	21		22	50		4200		FREEZER CONDENSING
SHUNT-TRIP				20	23		24		4200			
ICE CREAM BOX	1000			20	25	1	26	20	1176			FREEZER EVAP
MILK BOX		1000		20	27	1	28		1176			
POS		500		20	29	1	30			576		DISPOSER
RECEPTACLE	400			20	31		32	20	576			
		6300		60	33		34			576		
DISHWASHER		6300		60	35		36	20		1656		KEF-1A
					37		38	20	1656			KEF-1B
MAU-1		1320		15	39		40	20	480			KEF-2
			1320		41		42	20	200			COOLER EVAP
HOOD LTS/CTS		500		20	45		46	20	500			COOL LTS/CTS
SPARE				20	47		48	20				SPARE
SPARE				20	49		50	20				SPARE
SPARE				20	51		52	20				SPACE
SPARE				20	53		54	20				SPACE
SPARE				20	55		56	20				SPACE
SPARE				20	57		58	20				SPACE
SPARE				20	59		60	20				SPACE
SPACE				20	61		62	20				SPACE
SPACE				20	63		64	20				SPACE
SPACE				20	65		66	20				SPACE
SPACE				20	67		68	20				SPACE
SPACE				20	69		70	20				SPACE
SPACE				20	71		72	20				SPACE
SPACE				20	73		74	20				SPACE
SPACE				20	75		76	20				SPACE
SPACE				20	77		78	20				SPACE
SPACE				20	79		80	20				SPACE
SPACE				20	81		82	20				SPACE
SPACE				20	83		84	20				SPACE
CONNECTED LOAD: 62,948												
PHASE A: 19890 AMPS 166												
PHASE B: 23482 AMPS 196												
PHASE C: 19576 AMPS 163												

NOTES:
 1. PROVIDE CIRCUIT BREAKER WITH GFCI OPTION
 2. PROVIDE CIRCUIT BREAKER WITH SHUNT-TRIP AND GFCI OPTIONS.

PANEL "M1"

MOUNTING SURFACE
 208/120 VOLTS 3 PHASE 4 WIRE + GR.

MAINS 800A MLO
 BUS 800 AMPS.
 MINIMUM A.I.C. 51,444 AMPS.

DESCRIPTION	LOAD / PHASE			BKR	CKT NO.	NOTES	CKT NO.	BKR	LOAD / PHASE			DESCRIPTION
	A	B	C						A	B	C	
RTU-1	3480	3480		45	1		2	30	2544	2544		RTU-9
			3480		3		4			2544		
					5		6			2544		
	3576			45	7		8	30	2544	2544		RTU-10
RTU-2		3576			9		10			2544		
			3576		11		12			2544		
					13		14		2544	2544		RTU-11
RTU-3	3576			45	15		16	30		2544		
			3576		17		18			2544		
					19		20		2544	2544		RTU-12
RTU-4	2544			30	21		22	30		2544		
			2544		23		24			2544		
					25		26		2544	2544		RTU-13
RTU-5	2544			30	27		28	30		2544		
			2544		29		30			2544		
					31		32		2544	2544		RTU-14
RTU-6	3480			45	33		34	30		2544		
			3480		35		36			2544		
					37		38		2544	2544		RTU-15
RTU-7	2544			30	39		40	30		2544		
			2544		41		42			2544		
					43		44		2544	2544		RTU-16
RTU-8	2544			30	45		46	30		2544		
			2544		47		48			2544		
					49		50		7428	7428		CU-1B
CU-1A	7428			70	51		52	70		7428		
			7428		53		54			7428		
					55		56		6996	6996		CU-2B
CU-2A	6996			70	57		58	70		6996		
			6996		59		60					



CLINTON W. FARRIS #28983
DATE SIGNED: 1-28-22



ADDITIONS AND RENOVATIONS TO THE
GORDON I.S.D. CAMPUS
 FOR GORDON I.S.D.
 112 RUSK STREET
 GORDON, TEXAS 76453

LIGHT FIXTURE SCHEDULE									
TYPE	VOLTAGE	MOUNTING	MANUFACTURER	MODEL NUMBER	LUMENS (LM)	WATTS	REMARKS	NOTES	
A1	120	RECESSED	LITHONIA	EPANL 2X2 4800LM 80CRI 40K MIN10 ZT MVOLT	4800	45	2x2' FLAT PANEL WITH DIMMING DRIVER		
A1E	120	RECESSED	LITHONIA	EPANL 2X2 4800LM 80CRI 40K MIN10 ZT MVOLT E10WCP	4800	45	SAME AS TYPE "A1" EXCEPT WITH EMERGENCY BATTERY		
A2	120	RECESSED	LITHONIA	EPANL 2X2 4000LM 80CRI 40K MIN10 ZT MVOLT	4000	37	2x2' FLAT PANEL WITH DIMMING DRIVER		
A2E	120	RECESSED	LITHONIA	EPANL 2X2 4000LM 80CRI 40K MIN10 ZT MVOLT E10WCP	4000	37	SAME AS TYPE "A2" EXCEPT WITH EMERGENCY BATTERY		
A3	120	RECESSED	LITHONIA	EPANL 2X2 3000LM 80CRI 40K MIN10 ZT MVOLT	3400	30	2x2' FLAT PANEL WITH DIMMING DRIVER		
A3E	120	RECESSED	LITHONIA	EPANL 2X2 3000LM 80CRI 40K MIN10 ZT MVOLT E10WCP	3400	30	SAME AS TYPE "A3" EXCEPT WITH EMERGENCY BATTERY		
B1	120	PENDANT	PRUDENTIAL	O-30 LED4 HO FWA CC D9 SC UNV SUR X3 DM01	7300	143	37" ROUND LED DECORATIVE PENDANT	1	
B2	120	PENDANT	PRUDENTIAL	O-20 LED4 HO FWA CC D9 SC UNV SUR X3 DM01	4600	92	26" ROUND LED DECORATIVE PENDANT	1	
C1	120	RECESSED	GOETHAM	EVO6 40/15 AR WD LSS MVOLT GZ10	1500	15	6" ROUND LED DOWNLIGHT FIXTURE WITH DIMMING DRIVER		
C1E	120	RECESSED	GOETHAM	EVO6 40/15 AR WD LSS MVOLT GZ10 E10WCP	1500	15	6" ROUND LED DOWNLIGHT FIXTURE WITH DIMMING DRIVER		
D1	120	SURFACE	PEERLESS	OPMS LSL 10FT 80CRI 40K 510LMF DARK ZT 120 SCT F2##F C###	5000	43	10' LINEAR LED LIGHT FIXTURE	1,2	
D2	120	SURFACE	PEERLESS	OPMS LLP 8FT 80CRI 40K 510LMF DARK ZT 120 SCT F2##F C###	4000	35	8' LINEAR LED LIGHT FIXTURE	1,2	
D3	120	SURFACE	PEERLESS	OPMS LLP 6FT 80CRI 40K 510LMF DARK ZT 120 SCT F2##F C###	3000	26	6' LINEAR LED LIGHT FIXTURE	1,2	
F1	120	SUSPENDED	LITHONIA	TZL1N L96 6000LM FST MVOLT 40K 80CRI WH - HC35M12	6000	48	8' LED STRIP LIGHT FIXTURE AND HANGER CHAIN SET		
F1E	120	SUSPENDED	LITHONIA	TZL1N L96 6000LM FST MVOLT 40K 80CRI E7W WH - HC35M12	6000	48	SAME AS TYPE "F1" EXCEPT WITH EMERGENCY BATTERY		
F2	120	SURFACE	LITHONIA	ZL1N L48 7000LM FST MVOLT 40K 80CRI WH	7000	52	4' LED STRIP LIGHT FIXTURE		
F2E	120	SURFACE	LITHONIA	ZL1N L48 7000LM FST MVOLT 40K 80CRI E7W WH	7000	52	SAME AS TYPE "F2" EXCEPT WITH EMERGENCY BATTERY		
F3	120	SURFACE	LITHONIA	ZL1N L48 3000LM FST MVOLT 40K 80CRI WH	3000	25	4' LED STRIP LIGHT FIXTURE		
F4	120	SURFACE	LITHONIA	ZL1N L24 1500LM FST MVOLT 40K 80CRI WH	1500	15	2' LED STRIP LIGHT FIXTURE		
G1	120	RECESSED	GOETHAM	EVO6 40/15 WR WD MVOLT GZ10	1500	15	6" ROUND LED DOWNLIGHT FIXTURE WITH WHITE FINISH		
G1E	120	RECESSED	GOETHAM	EVO6 40/15 WR WD MVOLT GZ10 E10WCP	1500	15	SAME AS TYPE "G1" EXCEPT WITH EMERGENCY BATTERY		
S	120	RECESSED	LITHONIA	WF6 LED 40K MVOLT 90CRI MW	1200	14	6" ROUND LED SHOWER DOWNLIGHT FIXTURE		
W	120	WALL	LITHONIA	WDGE2 LED P4 40K 80CRI VW MVOLT DDBXD	4500	35	TRAPEZOIDIAL WALL PACK		
WE	120	WALL	LITHONIA	WDGE2 LED P4 40K 80CRI VW MVOLT E10WH DDBXD	4500	35	SAME AS TYPE "W" EXCEPT WITH EMERGENCY BATTERY		
X	120	SURFACE	LITHONIA	LE S 1 R ELN	LED	2	SINGLE FACED EXIT SIGN WITH EMERGENCY BATTERY		
X2	120	SURFACE	LITHONIA	LE S 2 R ELN	LED	2	DOUBLE FACED EXIT SIGN WITH EMERGENCY BATTERY		
GENERAL LIGHT FIXTURE NOTES:									
A. ALL LED LIGHT FIXTURES SHALL BE RATED FOR 4000 DEGREES KELVIN UNLESS OTHERWISE NOTED.									
LIGHT FIXTURE SCHEDULE NOTES:									
1. COORDINATE FIXTURE FINISH WITH ARCHITECT AND OWNER.									
2. COORDINATE FIXTURE SUSPENSION LENGTH WITH ARCHITECT.									

ELECTRICAL SYMBOL SCHEDULE			
	2x2 RECESSED LIGHT FIXTURE		DISCONNECT SWITCH
	2x2 RECESSED LIGHT FIXTURE WITH BATTERY BACK-UP		STARTER/DISCONNECT SWITCH
	LINEAR LIGHT FIXTURE		CIRCUIT RUN TO PANELBOARD - NUMBER OF WIRES SHOWN
	LINEAR LIGHT FIXTURE WITH BATTERY BACK-UP		CIRCUIT INDICATOR
	DOWN LIGHT FIXTURE		DISTRIBUTION PANELBOARD
	DOWN LIGHT FIXTURE WITH BATTERY BACK-UP		SURFACE MOUNTED LIGHTING AND APPLIANCE PANELBOARD
	WALL MOUNTED LIGHT FIXTURE		RECESSED MOUNTED LIGHTING AND APPLIANCE PANELBOARD
	WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACK-UP		PAD-MOUNTED SWITCHBOARD
	EXIT SIGN - NUMBER OF FACES INDICATED BY SHADING		UNDERGROUND ELECTRICAL SERVICE
	SPST WALL SWITCH		UNDERGROUND COMMUNICATION SERVICE
	DIMMING SWITCH		OVERHEAD ELECTRICAL SERVICE
	VACANCY SENSOR SWITCH		OVERHEAD COMMUNICATION SERVICE
	OCCUPANCY SENSOR SWITCH		KWH METER
	THREE-WAY SWITCH		WALL MOUNTED DATA OUTLET
	FOUR-WAY SWITCH		WALL MOUNTED TELEPHONE/DATA OUTLET
	OCCUPANCY SENSOR		TELEPHONE/DATA OUTLET MOUNTED ABOVE COUNTER
	POWER PACK		CEILING MOUNTED TELEPHONE/DATA OUTLET
	TIME CLOCK		TELEVISION OUTLET
	DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, GROUNDING		CEILING MOUNTED SPEAKER
	ABOVE COUNTER (VERIFY WITH ARCHITECTURAL)		FIRE ALARM CONTROL PANEL
	DUPLEX RECEPTACLE WITH GFCl		REMOTE FIRE ALARM ANNUNCIATOR PANEL
	CEILING MOUNTED RECEPTACLE		FIRE ALARM PULL STATION
	DUPLEX RECEPTACLE WITH WEATHER-PROOF COVER		FIRE ALARM AUDIBLE/STROBE UNIT
	DUPLEX RECEPTACLE MOUNTED AT INDICATED HEIGHT		FIRE ALARM STROBE UNIT
	COMBINATION FLOOR BOX WITH RECEPTACLES AND DATA INDICATED		FIRE SUPPRESSION FLOW SWITCH
	208V RECEPTACLE		FIRE SUPPRESSION TAMPER SWITCH
	DOUBLE DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, GROUNDING		FIRE ALARM SMOKE DETECTOR
	JUNCTION BOX		DUCT MOUNTED SMOKE DETECTOR
	PA SYSTEM CALL BUTTON		SECURITY CARD READER
	CONTACTOR		
ALL ELECTRICAL DEVICES SHOWN DASHED, OR ON DASHED WALLS, ALONG WITH ALL WIRING AND CONDUIT ASSOCIATED WITH DEVICE SHALL BE REMOVED BACK TO POINT OF ORIGIN UNLESS NOTED OTHERWISE.			

ELECTRICAL ABBREVIATIONS	
ABOVE COUNTER	AC
ABOVE FINISHED FLOOR	AC
ALTERNATING CURRENT	AC
AMERICAN NATIONAL STANDARDS INSTITUTE	ANSI
AMERICAN SOCIETY FOR TESTING AND MATERIALS	ASTM
AMERICAN WIRE GAUGE	AWG
AMPERE	AMP
AMPHOUR	AH
AMPERE INTERRUPTING CAPACITY	AIC
ARC FAULT CIRCUIT INTERRUPTER	AFCI
AUTHORITY HAVING JURISDICTION	AHJ
AUTOMATIC TRANSFER SWITCH	ATS
BATTERY	BAT
BUILDING AUTOMATION SYSTEM	BAS
CEILING	C
COAXIAL CABLE	COAX
COLOR RENDERING INDEX	CRI
COMMUNICATIONS	COMM
CONDUIT	C
CONTROL	CTRL
COPPER	CU
CURRENT TRANSFORMER	CT
DECIBEL (SOUND)	dB
DEMOLITION	DEMO
DIRECT CURRENT	DC
DOUBLE POLE, DOUBLE THROW	DPDT
DOUBLE POLE, SINGLE THROW	DPST
ELECTRIC	ELEC
ELECTRICAL METALLIC TUBING	EMT
ELECTRICAL NONMETALLIC TUBING	ENT
FIRE ALARM ANNUNCIATOR PANEL	FAAP
FIRE ALARM CONTROL PANEL	FACP
FLEXIBLE METALLIC CONDUIT	FMC
FOOTCANDLE	FC
FULL LOAD AMPS	FLA
GAUGE	GA
GROUND	GND
GROUND FAULT CIRCUIT INTERRUPTER	GFCI
HORSEPOWER	HP
INTERMEDIATE METAL CONDUIT	IMC
INTERNATIONAL BUILDING CODE	IBC
KILOVOLT	kV
KILOVOLT AMP	kVA
KILOWATT	kW
KILOWATT HOUR	kWh
LIQUIDTIGHT FLEXIBLE METAL CONDUIT	LFMC
LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT	LFNC
LOW VOLTAGE	LV
LUMEN	LM
LUMENS PER WATT	LPW
MAIN CIRCUIT BREAKER	MCB
MAIN LUGS ONLY	MLO
MINIMUM	MIN
MINIMUM CIRCUIT AMPS	MCA
MOTOR CONTROL CENTER	MCC
NATIONAL ELECTRICAL CODE	NEC
NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	NEMA
NATIONAL FIRE CODE	NFC
NATIONAL FIRE PROTECTION ASSOCIATION	NFPA
NOTIFICATION APPLIANCE CIRCUIT	NAC
PANELBOARD	PB
PHASE	PH
POLY VINYL CHLORIDE	PVC
POWER FACTOR	PF
PUBLIC ADDRESS	PA
RECEPTACLE	RECEPT
RIGID GALVANIZED STEEL	RGS
RIGID NONMETALLIC CONDUIT	RNC
SINGLE PHASE	1Ø
SINGLE POLE, DOUBLE THROW	SPDT
SINGLE POLE, SINGLE THROW	SPST
SWITCHBOARD	SWBD
THREE PHASE	3Ø
TELEPHONE TERMINAL BOARD	TTB
UNINTERRUPTIBLE POWER SUPPLY	UPS
VARIABLE FREQUENCY DRIVE	VFD
VOLT, VOLTS, VOLTAGE	V
VOLT AMPERE	VA
WEATHERPROOF	WP

DRAWN BY: FINCHER		
DATE: 28 JULY 2022		
REVISIONS		
NO.	DESCRIPTION	DATE
PROJECT NO. 20864.00		
SHEET NO. E701		