TAS/ADA - FIRE MARSHAL DEFERRED MAINTENANCE PROJECTS FOR MIDWESTERN STATE UNIVERSITY WICHITA FALLS, TEXAS
TYPICAL FIRE RISER DETAIL

2 TYPICAL FIRE RISER DETAIL

SCALE: 1"=1'-0"

FIRE PROTECTION PLAN

BOLIN SCIENCE HALL - FIRST FLOOR - AREA 1C

1/8" = 1'-0"
GENERAL NOTES

A. REFER TO SYMBOL LEGEND AND GENERAL NOTES.
B. REFER TO SPECIFICATIONS.
C. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES

A. EXISTING FIRE LINE SERVING AREA. FIELD VERIFY EXACT SIZE AND LOCATION.
B. MODIFY EXISTING FIRE SPRINKLER SYSTEM IN THIS AREA TO COMPLY WITH ALL APPLICABLE NFPA AND LOCAL CODES.
FAIN FINE ARTS - SECOND FLOOR - AREAS 2A/2B/2C
FIRE PROTECTION PLAN

GENERAL NOTES
1. REFER TO SYMBOL LEGEND AND GENERAL NOTES.
2. REFER TO SPECIFICATIONS.
3. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCHEDULE OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES
1. EXISTING FIRE LINE SERVING AREA. FIELD VERIFY EXACT SIZE AND LOCATION.
2. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING FIRE HOSE STORAGE CABINETS.
3. MODIFY EXISTING FIRE SPRINKLER SYSTEM IN THIS AREA TO COMPLY WITH ALL APPLICABLE NFPA AND LOCAL CODES.

EXISTING FIRE LINE SERVING AREA. FIELD VERIFY EXACT SIZE AND LOCATION.
NEW 2 1/2" FIRE LINE FROM ABOVE TO SERVE HOSE BOX.
CONTRACTOR TO CONSULT WITH LOCAL FIRE DEPARTMENT FOR REQUIRED HOSE BOX TYPE AND APPROVED MANUFACTURERS.
MODIFY EXISTING FIRE SPRINKLER SYSTEM IN THIS AREA TO COMPLY WITH ALL APPLICABLE NFPA AND LOCAL CODES.
**GENERAL NOTES**

A. REFER TO SYMBOL LEGEND AND GENERAL NOTES.

B. REFER TO SPECIFICATIONS.

C. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPE OF WORK AREAS WITHIN THE BUILDING.

**KEY NOTES**

NOT ALL NOTES APPLY TO EACH SHEET

1. CONNECT NEW 4" FIRE LINE TO MAIN WATER SERVICE LINE. FIELD VERIFY EXACT LOCATION OF SAID EXISTING WATER MAIN.

2. INSTALL NEW 4" FIRE RISER TO SERVE AREA NOTED. REFER TO DETAIL 2/B-FP101. THE FIRE RISER LOCATION IN THIS SPACE IS DIAGRAMMATIC IN NATURE AND CONTRACTOR HAS OPTION TO ALTER LOCATION OF THE FIRE RISER IN THIS SPACE AS NEEDED.

3. 2 1/2" FIRE DOWN FOR SERVE HOSE BOX. CONNECT TO FIRE SPRINKLER PIPE SERVING THAT AREA. CONTRACTOR TO CONSULT WITH LOCAL FIRE DEPARTMENT FORREQUIRED HOSE BOX TYPE AND APPROVED MANUFACTURER.

4. INSTALL NEW WATERFALL CURTAIN AT PROSCENIUM OPENING.

5. REFER TO FIRE PROTECTION GENERAL NOTES ON SHEET FPOO1, CONTRACTOR TO COORDINATE FIRE PROTECTION PIPE ROUTING WITH EXISTING FIELD CONDITIONS (EQUIPMENT, DUCTS, PIPE, SPACE RESTRICTIONS, ETC). THE PIPE ROUTING IN THIS SPACE IS DIAGRAMMATIC IN NATURE AND CONTRACTOR HAS OPTION TO ALTER ROUTING IN THIS SPACE AS NEEDED.

6. HORIZONTAL BACKFLOW PREVENTOR SHOWN FOR DIAGRAMMATIC PURPOSES. RECOMMEND USING VERTICAL BACKFLOW PREVENTOR DUE TO SPACE CONSTRAINTS.
GENERAL NOTES
A. REFER TO SYMBOL LEGEND AND GENERAL NOTES.
B. REFER TO SPECIFICATIONS.
C. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPES OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES
A. REMOVE EXISTING ELECTRIC WATER COOLER. CAP DOMESTIC, SANITARY AND VENT PIPE LINES FOR REUSE.
B. REMOVE EXISTING SINK AND ALL OTHER PLUMBING FIXTURES IN THIS ROOM. REMOVE ASSOCIATED APPURTENANCES. DEMOLISH AND CAP DOMESTIC AND VENT LINES BACK TO MAINS, AND SANITARY TO BELOW SLAB. FIELD VERIFY EXACT NUMBER AND LOCATION OF PLUMBING FIXTURES.

BOLIN SCIENCE HALL - FIRST FLOOR - AREA 1A
PLUMBING DEMOLITION PLAN

BOLIN SCIENCE HALL - FIRST FLOOR - AREA 1C
PLUMBING DEMOLITION PLAN
BOLIN SCIENCE HALL - SECOND FLOOR - AREA 2A
PLUMBING DEMOLITION PLAN

BOLIN SCIENCE HALL - THIRD FLOOR - AREA 3A
PLUMBING DEMOLITION PLAN

GENERAL NOTES
(A) REFER TO SYMBOL LEGEND AND GENERAL NOTES.
(B) REFER TO SPECIFICATIONS.
(C) REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPE OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES
(A) REFER TO SYMBOL LEGEND AND GENERAL NOTES.
(B) REFER TO SPECIFICATIONS.
(C) REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPE OF WORK AREAS WITHIN THE BUILDING.

1. REMOVE EXISTING ELECTRIC WATER COOLER. CAP DOMESTIC, SANITARY AND VENT PIPE LINES FOR REUSE.
2. REMOVE EXISTING SINK AND ALL OTHER PLUMBING FIXTURES IN THIS ROOM. REMOVE ASSOCIATED APPURTENANCES. DEMOLISH AND CAP DOMESTIC AND VENT LINES BACK TO MAINS, AND SANITARY TO BELOW SLAB. FIELD VERIFY EXACT NUMBER AND LOCATION OF PLUMBING FIXTURES.
GENERAL NOTES
NOT ALL NOTES APPLY TO EACH SHEET:
A. REFER TO SYMBOL LEGEND AND GENERAL NOTES.
B. REFER TO SPECIFICATIONS.
C. REFER TO ARCHITECTURAL OVERALL FLOOR PLAN FOR LOCATIONS OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES
(NEW NOTES APPLY TO EACH SHEET):
1. REMOVE EXISTING PLUMBING FIXTURES, APPURTENANCES, AND PIPING BACK TO MAINS AND SANITARY LINES. VERIFY EXACT NUMBER AND LOCATION OF PLUMBING FIXTURES.
2. REMOVE EXISTING FIXTURES, CAP DOMESTIC, SANITARY, AND VENT PIPE LINES FOR REUSE.
3. INSTALL NEW PLUMBING FIXTURES IN THESE RESTROOMS. RECONNECT TO PLUMBING LINES CAPTED DURING DEMOLITION.
4. REWORK WET WALL SERVICES TO ACCOMMODATE NEW FIXTURES.
GENERAL NOTES

A. REFER TO SYMBOL LEGEND AND GENERAL NOTES.
B. REFER TO SPECIFICATIONS.
C. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF WORK AREAS WITHIN THE BUILDING.
D. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES

1. REMOVE EXISTING ELECTRIC WATER COOLER. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.
2. REMOVE EXISTING ELECTRIC WATER COOLER. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.
3. REMOVE EXISTING SINKS AND CAP IT FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.
4. REMOVE EXISTING SINKS AND CAP IT FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.
5. REMOVE EXISTING SINKS AND CAP IT FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.
6. REMOVE EXISTING SINKS AND CAP IT FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.
7. REMOVE EXISTING SINKS AND CAP IT FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.
8. REMOVE EXISTING SINKS AND CAP IT FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.
9. REMOVE EXISTING SINKS AND CAP IT FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.
10. REMOVE EXISTING SINKS AND CAP IT FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.

KEY NOTES

1. REMOVE EXISTING ELECTRIC WATER COOLER. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE REUSED.
2. REMOVE  WATER CLOSETS. KEEP THE ONE THAT IS IN BETTER CONDITIONS FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE ONE OF THEM IS RELOCATED PER ADA AND TAS REQUIREMENTS.
3. REMOVE EXISTING LAVATORY AND KEEP IT FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE THE LAVATORY IS INSTALLED PER ADA AND TAS REQUIREMENTS.
4. REMOVE EXISTING URINAL AND KEEP IT FOR REUSE. CAP DOMESTIC, SANITARY AND VENT PIPE LINES ONCE THE URINAL IS INSTALLED PER ADA AND TAS REQUIREMENTS.
5. REMOVE EXISTING SHOWER HEAD AND SHOWER DRAIN. PREP DOMESTIC, SANITARY AND VENT PIPE LINES TO BE REUSED BY NEW ADA SHOWER STALL.
6. REMOVE EXISTING ELECTRIC WATER COOLER. PREP DOMESTIC, SANITARY AND VENT PIPE LINES TO BE EXTENDED AND REUSED BY NEW EWC.
7. REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED APPURTENANCES. DEMOLISH AND CAP DOMESTIC AND VENT LINES BACK TO MAINS, AND SANITARY TO BELOW SLAB. FIELD VERIFY EXACT NUMBER AND LOCATION OF PLUMBING Fixtures.

A. REFER TO SYMBOL LEGEND AND GENERAL NOTES.
B. REFER TO SPECIFICATIONS.
C. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS OF WORK AREAS WITHIN THE BUILDING.

SCALE: 1/8" = 1'-0"
GENERAL NOTES

1. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS OF WORK AREAS WITHIN THE BUILDING.

2. REFER TO SPECIFICATIONS.

3. REFER TO PLUMBING PLAN - AREA 1E.

4. REFER TO SYMBOL LEGEND AND GENERAL NOTES.

5. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF HANDICAPPED HEIGHT AS REQUIRED BY TEXAS ACCESSIBILITY STANDARDS AND ADA REQUIREMENTS.

6. REFER TO COMMERCIALş ARCHITECTS · PROGRAMMERS · PLANNERS

7. REFER TO SHEET P-003 FOR INFORMATION ABOUT THE SIZE.

8. REFER TO SHEET P-003 FOR INFORMATION ABOUT THE SIZE.

9. REFER TO SHEET P-003 FOR INFORMATION ABOUT THE SIZE.

10. REFER TO SHEET P-003 FOR INFORMATION ABOUT THE SIZE.

11. REFER TO SHEET P-003 FOR INFORMATION ABOUT THE SIZE.

12. REFER TO SHEET P-003 FOR INFORMATION ABOUT THE SIZE.

13. REFER TO SHEET P-003 FOR INFORMATION ABOUT THE SIZE.

14. REFER TO SHEET P-003 FOR INFORMATION ABOUT THE SIZE.

KEY NOTES (+)

16. REINSTALL  URINAL REMOVED AND KEPT DURING DEMOLITION.

17. DEMOLITION. CONNECT TO DOMESTIC, SANITARY AND VENT LINES CAPPED DURING DEMOLITION.

18. DEMOLITION. DEMOLITION. CONNECT TO DOMESTIC, SANITARY AND VENT LINES CAPPED DURING DEMOLITION.

19. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

20. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

21. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

22. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

23. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

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25. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

26. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

27. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

28. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

29. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

30. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

31. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

32. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

33. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.

34. INSTALL IN DRAINAGE VC WITH ADJUSTABLE VENT TO BE INSTALLED AT LEAST 3'-0" AWAY FROM ROOF EDGE.
### Mechanical Symbol Legend

#### Graphic Symbols

- **Top Title**
- **Bottom Title**
- **Ductwork Symbols**
- **Pipe & Fitting Symbols**
- **Valve Symbols**
- **Control Symbols**
- **Equipment Symbols**

#### Piping Designation

- **Multi-line Key**
- **Miscellaneous Symbols**

#### Equipment Designation

- Single line pressure drop break
- Double line pressure drop break
- Rectangular pressure drop break

#### Pipe & Fitting Symbols

- **Tee Fitting**
- **Elbow, 90 degree**
- **Elbow, 45 degree**
- **Branch Away From Viewer**

#### Valves

- **Gate Valve**
- **Cone Valve**
- **Blind Flange**
- **Reducer**
- **Check Valve**

#### Control Valves

- **Two Position**
- **Modulating**

#### Control Symbols

- **Temperature Sensing System**
- **Humidity Sensing System**
- **Motion Sensor**
- **Carpet Cleaning Sensor**

#### Equipment Symbols

- **Cooling Only at Terminal Unit**
- **Existing Equipment (cooling only at terminal)**
- **Terminal with Electric or Hydronic Heat**
- **Combining Unit**
- **Air filter**

### Mechanical Symbol Notes

- Single line pressure drop break
- Double line pressure drop break
- Rectangular pressure drop break
- Tee fitting
- Elbow, 90 degree
- Elbow, 45 degree
- Branch Away From Viewer
- Gate Valve
- Cone Valve
- Blind Flange
- Reducer
- Check Valve
- Two Position
- Modulating
- Temperature Sensing System
- Humidity Sensing System
- Motion Sensor
- Carpet Cleaning Sensor
- Cooling Only at Terminal Unit
- Existing Equipment (cooling only at terminal)
- Terminal with Electric or Hydronic Heat
- Combining Unit
- Air filter

### General

- **Graphic Symbols**
- **Pipe & Fitting Symbols**
- **Valve Symbols**
- **Control Symbols**
- **Equipment Symbols**

- **Piping Designation**
- **Multi-line Key**
- **Miscellaneous Symbols**

- **Equipment Designation**

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- **Reducer**
- **Check Valve**

- **Two Position**
- **Modulating**

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- **Humidity Sensing System**
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- **Cooling Only at Terminal Unit**
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- **Air filter**

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  - Fred C. Crabtree, Jr.

- **Date Signed:**
  - 15 May 2017

- **AIA No.:** 16782.00

- **M002**

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**This is a standard legend sheet. More information on this sheet may not be necessary. Apply to the project.**

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**This is a standard legend sheet. More information on this sheet may not be necessary. Apply to the project.**
1. Existing dual duct mixing box to remain.
2. Remove existing flex duct.
3. Existing ductwork to remain.
4. Existing supply/return air duct to remain and require complete removal and replacement with duct configured to same size, manufacturer, model and color.
5. Demolish existing ductwork to the extent shown.
6. Existing floor hatch to access the crawlspaces/basement area below. Do not demolish this access door.

A. Refer to symbol legend and general notes.
B. Refer to specifications.
C. Refer to architectural overall floor plans for locations of work areas within the building.

GENERAL NOTES

KEY NOTES

NOT ALL NOTES APPLY TO EACH SHEET

SCALE: 1/8" = 1'-0"
GENERAL NOTES

1. REFER TO SYMBOL LEGEND AND GENERAL NOTES.
2. REFER TO SPECIFICATIONS.
3. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPED OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES

1. RELOCATE SUPPLY DIFFUSER AND BALANCE AS SHOWN ON PLAN. INSTALL NEW DIFFUSER IF THE ONE REMOVED FROM DEMOLITION IS DAMAGED. REFER TO DEMOLITION NOTES.
2. COORDINATE LOCATION OF DIFFUSER WITH CEILING PLANS AND OTHER TRADES. REBALANCE EXISTING DUAL DUCT MIX BOX AS REQUIRED.
3. RELOCATE RETURN AIR GRILLE. INSTALL NEW RETURN GRILLE IF THE ONE REMOVED FROM DEMOLITION IS DAMAGED. REFER TO DEMOLITION NOTES. COORDINATE LOCATION OF GRILLE WITH CEILING PLANS AND OTHER TRADES.
4. NEW RETURN AIR GRILLE, COORDINATE LOCATION WITH CEILING PLAN AND OTHER TRADES. ENSURE RETURN AIR HAS A FREE PATH OUT OF THE NEW ROOM, IF NOT PROVIDE RETURN AIR BOOT AS REQUIRED.
5. REBALANCE EXISTING SUPPLY DIFFUSER SHOWN SHOWN ON PLAN.
6. NEW SUPPLY DIFFUSER, BALANCE AS SHOWN ON PLAN. COORDINATE LOCATION OF DIFFUSER WITH CEILING PLANS AND OTHER TRADES. RE-BALANCE EXISTING DUAL DUCT MIX BOX AS REQUIRED.

A. REFER TO SYMBOL LEGEND AND GENERAL NOTES.
B. REFER TO SPECIFICATIONS.
C. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPED OF WORK AREAS WITHIN THE BUILDING.
FERGUSON - THIRD FLOOR
MECHANICAL GENERAL PLAN

GENERAL NOTES
(A) REFER TO SYMBOL LEGEND AND GENERAL NOTES.
(B) REFER TO SPECIFICATIONS.
(C) REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS, SCOPE OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES
(A) REFER TO SYMBOL LEGEND AND GENERAL NOTES.
(B) REFER TO SPECIFICATIONS.
(C) REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS, SCOPE OF WORK AREAS WITHIN THE BUILDING.

1. REMOVE AND SAVE EXISTING AIR SUPPLY DIFFUSER(S) AND EXHAUST GRILLE(S) TO BE REUSED. RELOCATE SUPPLY AIR DIFFUSER(S) AND EXHAUST GRILLE(S) IN COORDINATION WITH NEW REFLECTED CEILING PLAN. RELOCATE EXHAUST GRILLE(S) ON TOP OF WATER CLOSET(S) AS MUCH AS POSSIBLE. INSTALL NEW SUPPLY DIFFUSER/EXHAUST GRILLE IF THE ONE REMOVED DURING DEMOLITION IS DAMAGED.
GENERAL NOTES

A. REFER TO SYMBOL LEGEND AND GENERAL NOTES.
B. REFER TO SPECIFICATIONS.
C. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPE OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES

1. NEW CONDENSING UNIT FOR DX SPLIT SYSTEM SERVING NEW ELECTRICAL ROOM. RUN REFRIGERANT LINES DOWN THROUGHROOF.
2. NEW CONDENSING UNIT FOR UNIT SYSTEM SERVING NEWFAN COILED UNIT. RUN REFRIGERANT LINES DOWN THROUGH ROOF. REFER TO DETAIL.
3. EXISTING FAN COILED UNIT RELOCATED IN THE CORRIDOR AND RECONNECTED TO THE HYDRONIC MAINS AND CONDENSATE.
4. SUPPLY AIR DIFFUSER TO BE REBALANCED TO 250 CFM. CONTRACTOR TO VERIFY THIS AIRFLOW ONCE NEW STORAGE ROOM IS BUILT.
5. EXISTING SUPPLY DIFFUSER TO BE REBALANCED TO 250 CFM.
6. RELOCATED SUPPLY AIR DIFFUSER TO BE REBALANCED TO 250 CFM.

FAIN FINE ARTS - FIRST FLOOR - AREA 1A
MECHANICAL PLAN

FAIN FINE ARTS - SECOND FLOOR - AREA 2A
MECHANICAL PLAN

FAIN FINE ARTS - ROOF LEVEL - AREA 2A
MECHANICAL PLAN
GENERAL NOTES FOR ALL ELECTRICAL WORK

1. ELECTRICAL OUTLET RECEPTACLES AND PARTIALLY ENCOURAGE NEW CONSTRUCTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) FOR ALL WIRING AND ELECTRICAL DEVICES.
3. PROVIDE ADDITIONAL SUPPORT FOR SCONCES, FIXTURES, AND LIGHTING DEVICES ON MOUNTING WALLS AND MOLDINGS TO BE IN ACCORDANCE WITH THE NEC.
4. PROVIDE ADDITIONAL SUPPORT FOR FIRE ALARMS, SMOKE DETECTORS, AND INTERCOM SYSTEM DEVICES TO BE IN ACCORDANCE WITH THE NEC.
5. PROVIDE ADDITIONAL SUPPORT FOR AIR CONDITIONING, HEATING, AND VENTILATION DEVICES TO BE IN ACCORDANCE WITH THE NEC.
6. PROVIDE ADDITIONAL SUPPORT FOR WATER HEATING, PLUMBING, AND GAS APPLIANCES TO BE IN ACCORDANCE WITH THE NEC.
7. PROVIDE ADDITIONAL SUPPORT FOR TELEPHONE, CABLE, AND DATA DEVICES TO BE IN ACCORDANCE WITH THE NEC.
8. PROVIDE ADDITIONAL SUPPORT FOR SECURITY, SURVEILLANCE, AND VIDEO DEVICES TO BE IN ACCORDANCE WITH THE NEC.
9. PROVIDE ADDITIONAL SUPPORT FOR AUDIO, PUBLIC ADDRESS, AND STROBE LIGHTS TO BE IN ACCORDANCE WITH THE NEC.
10. PROVIDE ADDITIONAL SUPPORT FOR AUTOMOTIVE, BOAT, AND TRUCK DEVICES TO BE IN ACCORDANCE WITH THE NEC.
11. PROVIDE ADDITIONAL SUPPORT FOR MEDICAL, DENTAL, AND DENTURIST DEVICES TO BE IN ACCORDANCE WITH THE NEC.
12. PROVIDE ADDITIONAL SUPPORT FOR INDUSTRIAL, MANUFACTURING, AND COMMERCIAL DEVICES TO BE IN ACCORDANCE WITH THE NEC.
13. PROVIDE ADDITIONAL SUPPORT FOR EDUCATIONAL, LIBRARY, AND ACADEMIC DEVICES TO BE IN ACCORDANCE WITH THE NEC.
14. PROVIDE ADDITIONAL SUPPORT FOR HEALTHCARE, NURSING, AND SERVING DEVICES TO BE IN ACCORDANCE WITH THE NEC.
15. PROVIDE ADDITIONAL SUPPORT FOR SPORTS, RECREATION, AND LEISURE DEVICES TO BE IN ACCORDANCE WITH THE NEC.
16. PROVIDE ADDITIONAL SUPPORT FOR COMMUNITY, CIVIC, AND SOCIAL DEVICES TO BE IN ACCORDANCE WITH THE NEC.
17. PROVIDE ADDITIONAL SUPPORT FOR GOVERNMENT, MILITARY, AND LAW ENFORCEMENT DEVICES TO BE IN ACCORDANCE WITH THE NEC.
18. PROVIDE ADDITIONAL SUPPORT FOR INSTITUTIONAL, RELIGIOUS, AND CHURCH DEVICES TO BE IN ACCORDANCE WITH THE NEC.
19. PROVIDE ADDITIONAL SUPPORT FOR TELECOMMUNICATIONS, TELEVISION, AND RADIO DEVICES TO BE IN ACCORDANCE WITH THE NEC.
20. PROVIDE ADDITIONAL SUPPORT FOR TELEPHONE, CABLE, AND DATA DEVICES TO BE IN ACCORDANCE WITH THE NEC.
21. PROVIDE ADDITIONAL SUPPORT FOR SECURITY, SURVEILLANCE, AND VIDEO DEVICES TO BE IN ACCORDANCE WITH THE NEC.
22. PROVIDE ADDITIONAL SUPPORT FOR AUDIO, PUBLIC ADDRESS, AND STROBE LIGHTS TO BE IN ACCORDANCE WITH THE NEC.
23. PROVIDE ADDITIONAL SUPPORT FOR AUTOMOTIVE, BOAT, AND TRUCK DEVICES TO BE IN ACCORDANCE WITH THE NEC.
24. PROVIDE ADDITIONAL SUPPORT FOR MEDICAL, DENTAL, AND DENTURIST DEVICES TO BE IN ACCORDANCE WITH THE NEC.
25. PROVIDE ADDITIONAL SUPPORT FOR INDUSTRIAL, MANUFACTURING, AND COMMERCIAL DEVICES TO BE IN ACCORDANCE WITH THE NEC.
26. PROVIDE ADDITIONAL SUPPORT FOR EDUCATIONAL, LIBRARY, AND ACADEMIC DEVICES TO BE IN ACCORDANCE WITH THE NEC.
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29. PROVIDE ADDITIONAL SUPPORT FOR COMMUNITY, CIVIC, AND SOCIAL DEVICES TO BE IN ACCORDANCE WITH THE NEC.
30. PROVIDE ADDITIONAL SUPPORT FOR GOVERNMENT, MILITARY, AND LAW ENFORCEMENT DEVICES TO BE IN ACCORDANCE WITH THE NEC.
31. PROVIDE ADDITIONAL SUPPORT FOR INSTITUTIONAL, RELIGIOUS, AND CHURCH DEVICES TO BE IN ACCORDANCE WITH THE NEC.
32. PROVIDE ADDITIONAL SUPPORT FOR TELECOMMUNICATIONS, TELEVISION, AND RADIO DEVICES TO BE IN ACCORDANCE WITH THE NEC.
33. PROVIDE ADDITIONAL SUPPORT FOR TELEPHONE, CABLE, AND DATA DEVICES TO BE IN ACCORDANCE WITH THE NEC.
34. PROVIDE ADDITIONAL SUPPORT FOR SECURITY, SURVEILLANCE, AND VIDEO DEVICES TO BE IN ACCORDANCE WITH THE NEC.
35. PROVIDE ADDITIONAL SUPPORT FOR AUDIO, PUBLIC ADDRESS, AND STROBE LIGHTS TO BE IN ACCORDANCE WITH THE NEC.
36. PROVIDE ADDITIONAL SUPPORT FOR AUTOMOTIVE, BOAT, AND TRUCK DEVICES TO BE IN ACCORDANCE WITH THE NEC.
37. PROVIDE ADDITIONAL SUPPORT FOR MEDICAL, DENTAL, AND DENTURIST DEVICES TO BE IN ACCORDANCE WITH THE NEC.
38. PROVIDE ADDITIONAL SUPPORT FOR INDUSTRIAL, MANUFACTURING, AND COMMERCIAL DEVICES TO BE IN ACCORDANCE WITH THE NEC.
39. PROVIDE ADDITIONAL SUPPORT FOR EDUCATIONAL, LIBRARY, AND ACADEMIC DEVICES TO BE IN ACCORDANCE WITH THE NEC.
40. PROVIDE ADDITIONAL SUPPORT FOR HEALTHCARE, NURSING, AND SERVING DEVICES TO BE IN ACCORDANCE WITH THE NEC.
GENERAL NOTES

1. REMOVE EXISTING LIGHTS. RETAIN CIRCUITING FOR RE-USE.
2. REMOVE EXISTING FIRE ALARM DEVICE. RETAIN CIRCUITING FOR RE-USE.
3. REMOVE EXISTING WIRING DEVICE. RETAIN CIRCUITING FOR RE-USE.
4. REMOVE ALL LIGHTS IN THIS AREA AND STORE THEM DURING CONSTRUCTION FOR RE-INSTALLATION AFTER THE SPRINKLER PIPING HAS BEEN INSTALLED.
5. REMOVE EXISTING 2000KVA TRANSFORMER, APPLY ALL NECESSARY PRECAUTIONS TO PRESERVE PRIMARY DUCTBANK SERVING TRANSFORMER IN GOOD AND SAFE CONDITION. TIMING OF REMOVAL AND THE INSTALLATION OF THE NEW TRANSFORMER SHALL BE COORDINATED WITH OWNER TO MINIMIZE POWER DISRUPTION TO THE BUILDING, REF. DRAWING B-101. DISPOSE OF THE EXISTING TRANSFORMER IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
6. REMOVE EXISTING TXU METER AND METERING CURRENT TRANSFORMERS AND RETURN TO OWNER. PRESERVE IN GOOD CONDITION. PRESERVE EXISTING SCHNEIDER ELECTRIC PM750 METER AND WIRING FOR REUSE AND INSTALLATION IN THE NEW TRANSFORMER. REFERENCE B-102 FOR ADDITIONAL REQUIREMENTS.
7. APPROXIMATE LOCATION OF EXISTING PRIMARY CABLE IN DUCTBANK. FIELD VERIFY EXACT LOCATION PRIOR TO DEMOLITION.

KEY NOTES

1. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPE OF WORK AREAS WITHIN THE BUILDING.
BOLIN SCIENCE HALL - FIRST FLOOR - AREA 1B

**GENERAL NOTES**

1. INSTALL NEW LIGHTS TO EXISTING LUMINAIERY CIRCUIT SERVING THIS AREA (SEE LIGHTS PLAN). PROVIDE ALL MATERIAL AND LABOR.
2. MOUNT ALARM DEVICE. CONNECT TO EXISTING FIRE ALARM SYSTEM. LOCATE A SILENCER PROX TO RECEPTACLE.
3. BUSCOUPLER UNIT MONITOR. PERFORM TEST TO LIGHTING IN THIS AREA.
4. CONNECT NEW RECEPTACLE TO 208V SERVICE CIRCUIT (50A CIRCUIT). PROVIDE 25A/1P CIRCUIT BREAKER.
5. COORDINATE FIELD INSTALLATION WITH EXISTING TRANSFORMER. PROVIDE ALL MATERIAL AND LABOR.

**EQUIPMENT PRIOR TO BID AND PERFORMING FIELD VERIFY DISTANCES, SITE CONDITIONS, DIAGRAMMATIC CLEARANCE OF WORK. PROVIDE ALL LABOR AND MATERIAL FOR A COMPLETE INSTALLATION.**

- REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPE OF WORK AREAS WITHIN THE BUILDING.
- REFER TO MANUFACTURER’S WIRING INSTRUCTIONS FOR MORE DETAILS.
- FIELD COORDINATES ACTUAL LOCATION PRIOR TO INSTALLATION.
- VERIFY LOCATION WITH AHJ PRIOR TO INSTALLATION.
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STORAGE WEB: www.harperperkins.com

NEW TAP BOX FOR CONNECTION OF EQUIPMENT PRIOR TO BID AND PERFORMING EXISTING EQUIPMENT TO BE REUSED ARE THE LOCATION AND SPACING OF THE NEW TRANSFORMER AND THE LAYOUT OF THE NEW TRANSFORMER AND EXISTING EQUIPMENT AND REQUIREMENTS NEC SECTIONS 300.5 AND 300.50.

REFER TO B-E201 FOR DETAILS.

UNDERGROUND WIRING INSTALLATION SHALL CONFORM WITH THE PVC TRANSFORMER ELECTRICAL PLAN.

REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS 1-PH, 2.5KW. USE CIRCUIT RN-8/10, PROVIDE 20A/2P BREAKER IN THE HARDWARE AND SCREWS. PROVIDE NEMA 3R ENCLOSURE. SEAL ALL CONDITIONS. INCLUDE ALL LABOR AND MATERIALS FOR A COMPLETE OPERATING SYSTEM.

PROVIDE A NEAT INSTALLATION. INSPECT, CLEAN, CHECK AND REPORT DEFICIENCIES TO THE ENGINEER. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE SYSTEM. VERIFY LOCATION WITH AHJ PRIOR TO INSTALLATION.

1. REFER TO MANUFACTURER'S WIRING INSTRUCTIONS FOR MORE EVAPORATOR UNITS EVAP-1 AND EVAP-2, 208V, 1-PH, 0.2A, TO BE CONNECT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT SERVING CAMPUS REMOTE MONITORING SYSTEM. VERIFY PROPER INSTALLATION. HORIZONTAL METER. VERIFY REQUIREMENTS SCHNEIDER ELECTRIC PM750 METER. VERIFY REQUIREMENTS CONDITIONS. INCLUDE ALL LABOR AND MATERIALS FOR A COMPLETE OPERATING SYSTEM.

2. PROVIDE 30/NF/2 NEMA 3R DISCONNECT SWITCH FOR NEW UNIT HEATER, 208V, MAX. PER 20A CIRCUIT). PROVIDE 30/NF/2 DISCONNECT SWITCH FOR UNIT HEATER, 208V, MAX. PER 20A CIRCUIT). PROVIDE 30/NF/2 DISCONNECT SWITCH FOR UNIT HEATER, 208V, MAX. PER 20A CIRCUIT).

3. PROVIDE 3#12, #12G, 3/4"C FROM OUTDOOR UNIT VIA MOTOR RATED SWITCH. 3/4"C CONDENSING UNIT SERVING STAIR TOWER (208V, 1-PH, 17.9A MCA, 110V, 3STRW4 STAIRS)

4. PROVIDE 3#12, #12G, 3/4"C FROM OUTDOOR UNIT VIA MOTOR RATED SWITCH. 3/4"C CONDENSING UNIT SERVING STAIR TOWER (208V, 1-PH, 17.9A MCA, 110V, 3STRW4 STAIRS)

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12. PROVIDE 3#12, #12G, 3/4"C FROM OUTDOOR UNIT VIA MOTOR RATED SWITCH. 3/4"C CONDENSING UNIT SERVING STAIR TOWER (208V, 1-PH, 17.9A MCA, 110V, 3STRW4 STAIRS)

13. PROVIDE 3#12, #12G, 3/4"C FROM OUTDOOR UNIT VIA MOTOR RATED SWITCH. 3/4"C CONDENSING UNIT SERVING STAIR TOWER (208V, 1-PH, 17.9A MCA, 110V, 3STRW4 STAIRS)

14. PROVIDE 3#12, #12G, 3/4"C FROM OUTDOOR UNIT VIA MOTOR RATED SWITCH. 3/4"C CONDENSING UNIT SERVING STAIR TOWER (208V, 1-PH, 17.9A MCA, 110V, 3STRW4 STAIRS)

15. PROVIDE 3#12, #12G, 3/4"C FROM OUTDOOR UNIT VIA MOTOR RATED SWITCH. 3/4"C CONDENSING UNIT SERVING STAIR TOWER (208V, 1-PH, 17.9A MCA, 110V, 3STRW4 STAIRS)
GENERAL NOTES

1. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS AND SCALES OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES

1. REMOVE ALL LIGHTS IN THIS AREA. RETAIN CIRCUITING FOR RE-USE. FIELD COORDINATE THE EXTENT OF THE CEILING DEMO WITH ARCHITECT PRIOR TO DEMOLITION.

2. REMOVE ALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS, WIRING DEVICES AND FIRE ALARM DEVICES WITHIN THIS AREA. RETAIN CIRCUITING FOR RE-USE IN NEW CONSTRUCTION.

3. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS OF WORK AREAS WITHIN THE BUILDING.

SCALE: 1/8" = 1'-0"
GENERAL NOTES

1. REMOVE ALL LIGHTS IN THIS AREA. RETAIN CIRCUITING FOR RE-USE WITH NEW LIGHTS. FIELD COORDINATE THE EXTENT OF THE CEILING DEMO WITH ARCHITECT PRIOR TO DEMOLITION.

2. REMOVE EXISTING WIRING DEVICE. RETAIN CIRCUITING FOR RE-USE.

KEY NOTES

1. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPE OF WORK AREAS WITHIN THE BUILDING.
GENERAL NOTES
1. CONNECT FIRE ALARMS TO Existing LIGHTING CIRCUIT SERVING THIS AREA. USE ONE M6 FOR CMU (CIRCUIT).
2. MONITOR FIRE ALARM SYSTEM. CONNECT TO EXISTING FIRE ALARM SYSTEM. VERIFY CONNECTIONS WITH ON-SITE INSTALLATION.
3. USE CIRCUIT #2 FOR NEW RECEPTACLE. PROVIDE 2#12, #12G, 3/4" IN. WHEN MOUNTING ON A J-BOX, USE #12 RATED WIRE.
4. CONNECTING EXISTING J-BOX OR EXISTING WIRING TO NEW WIRING, INSTALL ONE M6 PER CMU (CIRCUIT).
5. INSULATED EXISTING TERMINAL BLOCK PANEL WITH #12, #12G, 3/4" IN. TERMINAL;

FAIN FINE ARTS - FIRST FLOOR - AREA 1E

ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"

KEY NOTES
1. PROVIDE NEW SP-SERVICE RECEPTACLE MINIMUM 208V, 1-PH, 0.2A. USE CIRCUIT H-34/36/38, PROVIDE 25A/3P BREAKER IN PANEL AND ROUTE COORDINATE ACTUAL LOCATION OF UNIT PRIOR TO ROUGH-IN.
2. PROVIDE COORDINATE ACTUAL LOCATION OF UNIT PRIOR TO ROUGH-IN.
3. PROVIDE BC, FCU, & EVAPORATOR UNIT, 208V, 1-PH, 0.2A. USE CIRCUIT LOADS AND MATCH EXISTING BREAKER CONFIGURATION IN NEW MAX. PER 20A CIRCUIT). SYSTEM. VERIFY LOCATION WITH AHJ PRIOR TO INSTALLATION.
4. PROVIDE 2#12, #12G, 3/4" C.

FAIN FINE ARTS - FIRST FLOOR - AREA 1A

ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES
1. CONNECT FIRE ALARMS TO Existing LIGHTING CIRCUIT SERVING THIS AREA. USE ONE M6 FOR CMU (CIRCUIT).
2. MONITOR FIRE ALARM SYSTEM. CONNECT TO EXISTING FIRE ALARM SYSTEM. VERIFY CONNECTIONS WITH ON-SITE INSTALLATION.
3. USE CIRCUIT #2 FOR NEW RECEPTACLE. PROVIDE 2#12, #12G, 3/4" IN. WHEN MOUNTING ON A J-BOX, USE #12 RATED WIRE.
4. CONNECTING EXISTING J-BOX OR EXISTING WIRING TO NEW WIRING, INSTALL ONE M6 PER CMU (CIRCUIT).
5. INSULATED EXISTING TERMINAL BLOCK PANEL WITH #12, #12G, 3/4" IN. TERMINAL;

FAIN FINE ARTS - SUB BASEMENT

ELECTRICAL ROOM PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES
1. CONNECT FIRE ALARMS TO Existing LIGHTING CIRCUIT SERVING THIS AREA. USE ONE M6 FOR CMU (CIRCUIT).
2. MONITOR FIRE ALARM SYSTEM. CONNECT TO EXISTING FIRE ALARM SYSTEM. VERIFY CONNECTIONS WITH ON-SITE INSTALLATION.
3. USE CIRCUIT #2 FOR NEW RECEPTACLE. PROVIDE 2#12, #12G, 3/4" IN. WHEN MOUNTING ON A J-BOX, USE #12 RATED WIRE.
4. CONNECTING EXISTING J-BOX OR EXISTING WIRING TO NEW WIRING, INSTALL ONE M6 PER CMU (CIRCUIT).
5. INSULATED EXISTING TERMINAL BLOCK PANEL WITH #12, #12G, 3/4" IN. TERMINAL;

FAIN FINE ARTS - SECOND FLOOR - AREA 2A

ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES
1. CONNECT FIRE ALARMS TO Existing LIGHTING CIRCUIT SERVING THIS AREA. USE ONE M6 FOR CMU (CIRCUIT).
2. MONITOR FIRE ALARM SYSTEM. CONNECT TO EXISTING FIRE ALARM SYSTEM. VERIFY CONNECTIONS WITH ON-SITE INSTALLATION.
3. USE CIRCUIT #2 FOR NEW RECEPTACLE. PROVIDE 2#12, #12G, 3/4" IN. WHEN MOUNTING ON A J-BOX, USE #12 RATED WIRE.
4. CONNECTING EXISTING J-BOX OR EXISTING WIRING TO NEW WIRING, INSTALL ONE M6 PER CMU (CIRCUIT).
5. INSULATED EXISTING TERMINAL BLOCK PANEL WITH #12, #12G, 3/4" IN. TERMINAL;

FAIN FINE ARTS - SECOND FLOOR - AREA 2C

ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES
1. CONNECT FIRE ALARMS TO Existing LIGHTING CIRCUIT SERVING THIS AREA. USE ONE M6 FOR CMU (CIRCUIT).
2. MONITOR FIRE ALARM SYSTEM. CONNECT TO EXISTING FIRE ALARM SYSTEM. VERIFY CONNECTIONS WITH ON-SITE INSTALLATION.
3. USE CIRCUIT #2 FOR NEW RECEPTACLE. PROVIDE 2#12, #12G, 3/4" IN. WHEN MOUNTING ON A J-BOX, USE #12 RATED WIRE.
4. CONNECTING EXISTING J-BOX OR EXISTING WIRING TO NEW WIRING, INSTALL ONE M6 PER CMU (CIRCUIT).
5. INSULATED EXISTING TERMINAL BLOCK PANEL WITH #12, #12G, 3/4" IN. TERMINAL;
GENERAL NOTES

KEY NOTES

1. Remove all units in this area. Review photogrammetry for reuse
   with new layout. Call Chemetron to confirm location of new
   units prior to demolition.

2. Refer to architectural overall floor plans for locations
   scope of work areas within the building.

GENERAL NOTES

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   with new layout. Call Chemetron to confirm location of new
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   scope of work areas within the building.
1. Connect new lights to existing lighting circuit serving this area.

2. New fire alarm device. Connect to existing fire alarm system. Verify location with AHJ prior to installation.

3. Homeline circuit to nearest 120V panelboard with available 20A/1P spare circuit breaker or space and provide 20A/1P CB. Use 2#12, 1#12G, 3/4"C.

4. New dimmable pathway lighting to be controlled via existing auditorium lighting control system. Field verify existing system and coordinate with owner for interface and connection requirements for compatibility and operability. Provide necessary appurtenances. In case the existing lighting system is unable to accommodate and after thorough verification with the owner, provide a stand alone dimming control compatible with existing dimming system. Match the new pathway light driver, location and device to be approved by owner. Provide a UL924 type relay so that on normal condition the pathway lighting can be dimmed/controlled by the lighting control system, while under emergency condition the pathway lighting will be "on" full bright.

5. Refer to architectural overall floor plans for locations and areas within the building.