ADDENDUM NO. 2

To the Drawings and Project Manual dated 16 June 2017

for

TAS/ADA FIRE MARSHAL
DEFERRED MAINTENANCE PROJECTS
MIDWESTERN STATE UNIVERSITY
3410 Taft Boulevard
Wichita Falls, Texas

Addendum Date: 10 August 2017

NOTICE TO PROPOSERS:

This Addendum will be considered a part of the Contract Documents for the above referenced project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those in the original Contract Documents, this Addendum shall govern and take precedence.

Proposers are hereby notified that they shall make any necessary adjustments in their estimates on account of this Addendum. It will be construed that such Proposer’s Competitive Sealed Proposal is submitted with full knowledge of all modifications and supplementary data specified herein.

ITEM 1 - AD#2: To the Project Manual and Drawings.
ADD: A Pre-Bid Conference was held in Room C-111 of the Fain Fine Arts Building on August 7, 2017 at 10:00 a.m. – the Conference also included a walk-through of the Bolin Science Hall, Fain Fine Arts Building, Ferguson Building, Hardin Administration Building, and associated Sites. A “pdf” file of the Sign-In Sheets from the Conference are available for download from the MSU Website at https://mwsu.edu/purchasing/.

ITEM 2 - AD#2: To the Drawings, Sheets “B-A303”, “FF-A304”, and “FF-A305”.
ADD: As clarification, the steel mesh infill for the handrailling shall 2 x 2 x 12 gauge mesh.

ADD: As clarification, the existing ceiling is being removed in its entirety in the “Corridor 1CORR4” space. A new 2x2 suspended acoustical ceiling (new tiles and grid above) is being installed (refer to the Reflected Ceiling Plan on Sheet “B-A703”) and existing light fixtures and HVAC diffusers/grilles being reused and installed in the new ceiling (refer to the MEP drawings).
ADD: The existing ceiling in “Computer Lab 133” shall be removed completely – salvage and maintain all existing
light fixtures, HVAC diffusers/grilles, and devices in the ceiling for reinstallation. Provide a new 2x2 suspended acoustical ceiling (new tiles & grid) in the space.

ADD: As clarification, new 2x2 suspended ceilings shall be provided in "Vestibule 1VEST1", "West Corridor 1CORR1", and "Vestibule 1VEST4" (refer to the Reflected Ceiling Plans on Sheets "B-A702" and "B-A703") and shall include new ceiling tiles and a new suspended grid system.

ITEM 4 - AD#1: To the Drawings, Sheet “H-AD103”, “Floor Plan – First Floor – Hardin Administration Building – Area “H-1A” – Demolition”
ADD: As clarification, the existing suspended "cloud" ceiling above the Stage area shall be lowered to accommodate the installation of the new Fire Sprinkler System piping. Also disconnect the existing light fixtures. Protect the ceiling and fixtures from damage during the new work. After installation of the new lines is complete, raise the ceiling to its original position and reconnect the light fixtures and restore to their original working condition.
ADD: Protect the existing wood flooring at the Stage area during the installation of the new Fire Sprinkler System piping. Any damage to the flooring during the installation work shall be repaired or replaced as necessary with matching materials and finish.
ADD: No mechanical lift of any kind shall be used on the Stage to perform this work – only scaffolding will be allowed.

ITEM 5 - AD#1: To the Drawings, Sheet “H-FP101”, “Hardin Admin Building – First Floor – Area 1A Fire Protection Plan”
ADD: As clarification, a new 4” Fire Sprinkler line is being extended and connected to the Main Water Service Line located west of the Building. Any existing asphalt paving that is disturbed and removed as part of this line installation shall be patched as necessary with matching materials upon completion of the work.

ITEM 6 - AD#1: To the Project Manual, Section 012100, ALLOWANCES.
ADD: An allowance of $10,000 shall be included for the provision of new ceilings that must be removed for the installation of new Fire Sprinkler System lines. The provision of several new ceiling areas have already been identified in the Drawings or Project Manual. The funds from this allowance can be used when approved in writing by the Owner after consultation with the Architect and Owner. Any unused funds in this allowance will be returned to the Owner at the end of the project.

ITEM 7 - AD#1: To the Project Manual, Section 012300, ALTERNATES
ADD: An Alternate #2, adding a Fire Sprinkler System below the existing Stage area in Akin Auditorium in the Hardin Administration Building. Refer to the MEP Drawings from Campos Engineers attached with this Addendum for more information.

ITEM 8 - AD#1: To the Project Manual, Section 012300, ALTERNATES; and the Drawings, Sheets “FF-AD105”, “FF-A105”, “A501”, and “A502”.
ADD: An Alternate #3 which shall be all work associated with the removal of the existing sloped glazing system (existing steel tube joists and steel tube/pipe framing are to remain in place) and the provision of the new sloped glazing system (Opening #FF21) as indicated.
ADD: Opening details “A502-18” as indicated on Supplemental Drawings “AD#2-01” through “AD#2-05” attached with this Addendum.

ITEM 9 - AD#1: To the Drawings, Sheet “A501”, “Opening Schedules”.
DELETE: On the “Opening Schedule – Bolin Science Hall” under Openings #B3, #B4, #B12, #B14, #B16, and #B17, the indication of glazing type “3”.
ADD: These openings shall have glazing type “4”.
DELETE: On the “Opening Schedule – Fain Fine Arts” under Opening #FF19, the indication of glazing type “3”.
ADD: This opening shall have glazing type “4”.

ITEM 10 - AD#1: To the Drawings, Mechanical Drawings; and the Project Manual, Section 099100, PAINTING.
ADD: Exposed mechanical piping and conduit in equipment and occupied spaces shall be painted as specified on page 099100-7, part 3.3(F) & (G).
ITEM 11 - AD#2: To the Project Manual, Section 099990, FINISH SCHEDULE KEY.  
DELETE: On page 099990-1 under floor finish “1B”, the word “Polished”.  
ADD: As clarification, the floor finish “1B” shall be “Exposed Stained Concrete – Sealed”.

DELETE: In keynote #17, the indication of a wood handrailing.  
ADD: As clarification and as part of the Base Bid, provide aluminum handrailing as specified in Section 055200, ALUMINUM HANDRAILS AND RAILINGS. All wall mounted handrailing shall turn 90 degrees and return to the wall on each end.  
ADD: Alternate #4 which shall provide painted 1¼” diameter steel pipe handrailing is (1.66” O.D.). At locations in which the Stairs have “open sides”, provide 2 x 2 x 12 gauge mesh infill with a 1”x1”x1/8” perimeter steel frame. The bottom railing shall be located 2” above the stair treads. All wall mounted handrailing shall turn 90 degrees and return to the wall on each end.

ITEM 13 - AD#2: To the Mechanical/Electrical/Plumbing (MEP) Drawings.  
ADD: The attached Addendum and associated revised drawings from Campos Engineering.

ITEM 14 - AD#2: To the Drawings, Sheet “B-AD106”, “Enlarged Floor Plan – Bolin Science Hall - First Floor – Area “B-1C” – Demolition”.  
ADD: As clarification, the existing wall material associated with the demolition work at “Vestibule 1VEST3” and “Lecture Hall 127” is as indicated on the “Enlarged Floor Plan – Bolin Science Hall - First Floor – Area “B-1C” – New” on Sheet “B-A106”.

END OF ADDENDUM NO. 2
SECTION OF TYPE "F" SLOPED GLAZED OPENING

SCALE: 3/8"=1'-0"
NOTE: CUT AND REMOVE EXIST. FLASHING TO FACE OF BRICK VENEER & PREPARE FOR NEW FLASHING REGLET

CAULKING - CONT.

2"x8" ALUM. TUBE - CONT; ATTACH TO 14 GA. STL. PL.; FIN. TO MATCH ALUM. CURTAIN WALL FR.

ALUM. CURTAIN WALL SYSTEM AS SPEC.; ATTACH TO EXIST. T.S., FR.

EXIST. T.S., FR.

NEW 4" WIDE, 14 GA. GALV. STL. PL.; CONT; ALONG LENGTH OF T.S. FR.; ATTACH TO EXIST. T.S. FR.

EXIST, MASONRY WALL

FRY-REGLET TYPE "SM" SURFACE MTD. REGLET & FLASHING - ATTACH TO EXIST. MASONRY WALL; PROVIDE CONT. SEALANT @ TOP

22 GA. PRE-FIN. MTL. FLASHING - CONT.; EXTEND UP AND BEHIND REGLET 2" MIN.; EXTEND DN. & OVER ALUM. TUBE; TURN 45° & PROVIDE w/ A HEMMED EDGE

TOP OF TYPE "F" SLOPED GLAZED OPENING

SCALE: 3"=1'-0"
MULLION @ SLOPE CHANGE OF TYPE "F" SLOPED GLAZED OPENING

SCALE: 1"=1'-0"
BOTTOM OF TYPE "F" SLOPED GLAZED OPENING

SCALE: 3" = 1'-0"
EXIST. MASONRY WALL

FRY-REGLET TYPE "SM" SURFACE MTD. REGLET & FLASHING - ATTACH TO EXIST. MASONRY WALL; PROVIDE CONT, SEALANT @ TOP.

22 GA. PRE-FIN. MTL. FLASHING - CONT.; EXTEND UP AND BEHIND REGLET 2" MIN.; EXTEND DN. & OVER ALUM. TUBE. TURN 45° & PROVIDE w/ A HEMMED EDGE

CAULKING - CONT.
ALUM. CURTAIN WALL SYSTEM AS SPEC.; ATTACH TO 14 GA. STL. PL.; FIN. TO MATCH ALUM. CURTAIN-WALL FR.,

NEW 4" WIDE, 14 GA. GALV. STL. PL., - CONT. ALONG LENGTH OF T.S. FR.; ATTACH TO EXIST. T.S. FR.

NOTE: CUT AND REMOVE EXIST. FLASHING TO FACE OF BRICK VENEER & PREPARE FOR NEW FLASHING REGLET

EXIST. STL. FR. TRUSS

SIDE OF TYPE "F" SLOPED GLAZED OPENING

SCALE: 3"=1'-0"
Summarized below are the revisions made to the Contract Documents.

**Electrical**

1. Sheet B-ED101 – Revised Drawing as follows:
   a. Added Computer Lab room 133 lighting to be remove and stored as stated in Key Note #4.

2. Sheet B-E101 – Revised Drawing as follows:
   a. Added Computer Lab room 133 lighting to be re-installed as stated in Key Note #6.
   b. Removed heat trace from the drawing per owner instruction.
   c. Key Note #11 changed to “Not Used”, as it pertains to heat trace that was removed.

3. Sheet E001 – Revised Drawing as follows:
   a. Revised all General Notes.

4. Sheet FF-ED102 – Revised Drawing as follows:
   a. Added Key Notes #14 and #15 regarding outlets on renovated walls.
   b. Enclosed the area in the drawing that is covered by Key Notes #14 and #15.

5. Sheet H-E101 – Revised Drawing as follows:
   a. Added Key Note #6 regarding lighting fixture removal and re-installation on areas affected by fire piping layout.
   b. Add Note Symbol #6 on areas in the drawing affected by fire protection piping installation.

**Mechanical**

1. Sheet B-MD101– Revised Drawing as follows:
   a. Rearrange sheet details to include HVAC demolition work in Area C1. It includes demolition of the supply and return ductwork serving the corridor as preparation for the inclusion of fire dampers.

2. Sheet B-M101– Revised Drawing as follows:
   a. Rearrange sheet details to include HVAC work in Area C1. It includes new Key Notes #6 and #7 to call for the installation of fire dampers on the supply and return ductwork in the corridor.

**Plumbing**

1. Sheet P003 – Revised Drawing as follows:
   a. Modified Plumbing Fixture Schedule to include correct manufacturer and model for the flushometers used by the water closets and urinals. Modified the manufacturer and model for the lavatories to comply with owner preferences.
Fire Protection

1. Sheet FP001 – Revised Drawing as follows:
   a. Added Key note #27, to direct the contractor to coordinate with the General Contractor the removal of the reflected ceiling along with any electrical, HVAC or any other appurtenance associated with it. It also states to save those materials for reinstallation.

2. Sheet B-FP101 – Revised Drawing as follows:
   a. Modified Key Notes #1 and #2 to reflect new main size of 6” in lieu of 4”. Also, Key Note #1 directs the contractor to insulate the fire piping inside the tunnel and got rid of the heat tracing. It also directs the contractor to coordinate the exact location of tie-ins to water main with MSU Staff.
   b. Modified main size in plans from 4” to 6”.
   c. Remove post indicator from detail 2/B-FP101.

3. Sheet H-FP101 – Revised Drawing as follows:
   a. Modified Key Notes #1 and #2 to reflect new main size of 6” in lieu of 4”. Also, Key Note #1 directs the contractor to coordinate exact location of tie-ins to water main with MSU Staff.
   b. Modified main size in plans from 4” to 6”.
   c. Added Key Note # 7 to indicate that the area underneath the stage is to be provided with a fire sprinkler system under Alternate #2.

Please let us know if you have any questions or concerns.

Sincerely,

Campos Engineering, Inc.

Fred Crabtree, PE
Project Manager/Mechanical Engineer
GENERAL NOTES

1. REMOVE EXISTING LIGHTS. RETAIN CIRCUITING FOR RE-USE.
2. REMOVE EXISTING FIRE ALARM DEVICE. RETAIN FOR RE-USE IN NEW LOCATION.
3. REMOVE EXISTING FUSE PANEL. RETAIN FOR RE-USE IN NEW LOCATION.
4. REMOVE ALL LIGHTS IN THIS AREA AND STORE DURING CONSTRUCTION FOR RE-INSTALLATION AFTER THE SPRINKLER SYSTEM HAS BEEN INSTALLED.
5. REMOVE EXISTING 2000KVA TRANSFORMER, APPLY ALL NECESSARY PRECAUTION TO PRESERVE THE 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. OWNER WILL PROVIDE TEST REPORT SHOWING TRANSFORMER DOES NOT CONTAIN PCB PRIOR TO REMOVAL.
6. REMOVE EXISTING TXU METER AND METERING CURRENT TRANSFORMERS (CT'S) 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 BE-102 FOR ADDITIONAL REQUIREMENTS.
7. APPROXIMATE LOCATION OF EXISTING PRIMARY CABLE IN DUCTBANK. FIELD VERIFY EXACT LOCATION.

KEY NOTES

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

BOLIN SCIENCE HALL - FIRST FLOOR - AREA 1B
ELECTRICAL DEMOLITION PLAN

BOLIN SCIENCE HALL - FIRST FLOOR - AREA 1A
ELECTRICAL DEMOLITION PLAN
1. INSTALL NEW LIGHTS TO EXISTING LUMINARIES CIRCUIT SERVING THIS AREA (200 AMP, 3 PHASE). REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATION OF LIGHT FIXTURES.

2. REFER TO UNCONTROLLED LIGHTING CIRCUIT BREAKER AIC RATING. OBTAIN WRITTEN APPROVAL FROM THE OWNER AT MINIMUM OF FIVE BUSINESS DAYS PRIOR TO A SHUT DOWN OF SERVICE. SEE DRAWING B-E201 FOR ADDITIONAL DETAILS AND REQUIREMENTS.

3. REFER TO MECHANICAL AND PLUMBING PLANS FOR LOCATIONS AND INFORMATION ON THE MECHANICAL AND PLUMBING EQUIPMENT.

INSTALL NEW 2000KVA TRANSFORMER TO REPLACE THE EXISTING EQUIPMENT AND EXISTING INSTALLATION.

EXISTING TRANSFORMER. PRESERVE DUCTBANK IN GOOD AND SAFE CONDITION, PROVIDE 30/NF/2 DISCONNECT SWITCH FOR UNIT HEATER, 208V. FIELD COORDINATE ACTUAL LOCATION OF UNIT PRIOR TO ROUGH IN.

NEW SPRINKLER PIPING HAS BEEN INSTALLED. RE-INSTALL THE EXISTING LIGHT FIXTURES IN THIS AREA AFTER THE NEAREST AVAILABLE UNCONTROLLED LIGHTING CIRCUIT (16A LOAD MAX. PER 20A CIRCUIT).

CONNECT THE NEW TRANSFORMER ASSEMBLY TO THE EXISTING PRIMARY AND SECONDARY SERVICES. COORDINATE THE WORK PRIOR TO BEGGINING FIELD COORDINATE ACTUAL LOCATION OF UNIT PRIOR TO ROUGH IN.

COORDINATE ROUTING OF UNDERGROUND WIRING WITH NEW TRANSFORMER. REFERENCE DRAWING B-E102 AND B-E201 FOR ADDITIONAL REQUIREMENTS.

REFER TO MANUFACTURER'S WIRING INSTRUCTIONS FOR MORE ROUGH-IN. NEW CIRCUIT BREAKER SHALL MATCH THE EXISTING UNIT. FIELD COORDINATE ACTUAL LOCATION OF UNIT PRIOR TO ROUGH IN.

REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS AND INFORMATION ON THE MECHANICAL AND PLUMBING EQUIPMENT.

CHECK THE LOCATION OF EXIT SIGNS AND EMERGENCY EXIT SIGNS IN THIS AREA. VERIFY LOCATION WITH AHJ PRIOR TO INSTALLATION.

RELOCATED LIGHT SWITCH. RECONNECT TO LIGHTING IN THIS AREA. CONNECT NEW EXIT SIGN AND EMERGENCY WALL PACK TO NEAREST AVAILABLE UnCONTROLLED LIGHTING CIRCUIT (16A LOAD MAX. PER 20A CIRCUIT).

NEW CIRCUIT BREAKER SHALL MATCH THE EXISTING UNIT. FIELD COORDINATE ACTUAL LOCATION OF UNIT PRIOR TO ROUGH IN.

CONNECT NEW RECEPTACLE TO NEAREST EXISTING 120V SYSTEM. VERIFY LOCATION WITH AHJ PRIOR TO INSTALLATION.

RE-INSTALL THE EXISTING LIGHT FIXTURES IN THIS AREA AFTER THE NEAREST AVAILABLE UNCONTROLLED LIGHTING CIRCUIT (16A LOAD MAX. PER 20A CIRCUIT).

CONNECT THE NEW TRANSFORMER ASSEMBLY TO THE EXISTING PRIMARY AND SECONDARY SERVICES. COORDINATE THE WORK PRIOR TO BEGGINING FIELD COORDINATE ACTUAL LOCATION OF UNIT PRIOR TO ROUGH IN.

COORDINATE ROUTING OF UNDERGROUND WIRING WITH NEW TRANSFORMER. REFERENCE DRAWING B-E102 AND B-E201 FOR ADDITIONAL REQUIREMENTS.
1. Prepare all drawings as required to clarify all areas for the new construction.
2. All equipment removed that is not being reused shall remain the property of the owner and shall be stored on site or offsite as directed.
3. Excavate fire alarm recesses or areas that are to be made usable. Where recesses are made, the ceiling shall be cut below the surface and the masculinity surface finished.
4. All equipment removed that is not being reused shall remain the property of the owner and shall be stored on site or offsite as directed.
5. Excavate the fire alarm recesses or areas that are to be made usable. Where recesses are made, the ceiling shall be cut below the surface and the masculinity surface finished.
6. Coordinate all demolition work with all trades.
7. Provide for the removal of all unused or removed conduit and fittings. Where necessary, provide for the installation of new conduit and fittings.
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9. Provide for the removal of all unused or removed conduit and fittings. Where necessary, provide for the installation of new conduit and fittings.
10. Coordinate all demolition work with all trades.
11. Provide a complete electrical operating system.
12. Install all electrical equipment that is not being reused. The equipment shall be cut below the surface and the masculinity surface finished.
13. Provide a complete electrical operating system. Coordination is required to accommodate the new work.
14. Coordinate all demolition work with all trades.
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99. Coordinate all demolition work with all trades.
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.

KEY NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR THE EXTENT OF DEMOLITION IN THIS AREA. FIELD VERIFY LOCATION AND QUANTITY OF ELECTRICAL RECEPTACLES IN THIS AREA. REMOVE ALL WALL MOUNTED RECEPTACLES, RETAIN BRANCH CIRCUITING FOR RE-USE, REFER TO FF-E102.

1. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPE OF WORK AREAS WITHIN THE BUILDING.
FAIN FINE ARTS - FIRST FLOOR - AREA 1D
ELECTRICAL PLAN

FAIN FINE ARTS - FIRST FLOOR ELECTRICAL ELEVATOR PLAN

PAGE 1 OF 10

OVERVIEW OF WORK AREAS WITHIN THE BUILDING.
FACING THE SAME ORIENTATION, AND TO BE MOUNTED AT 18" AFF AND/OR
INSTALL NEW RECEPTACLES ALONG NEW WALLS, REFER TO FF-ED102. THE
FCU, 208V, 1-PH, 0.2A. USE CIRCUIT LB7-99/101, PROVIDE 20A/2P BREAKER IN
RAMP. REUSE EXISTING CIRCUIT EXTENDED TO NEW LOCATION.

COORDINATE WITH ELECTRICAL CONTRACTOR WITH RESPECT TO LOCATION
AND PRODUCT SPECIFICATIONS.

ELEVATOR CAB LIGHT DISCONNECT 20A., 1P., 120V. CIRCUIT BREAKERS
DISCONNECTING MEANS IS INCLUDED WITH THE PLATFORM LIFT,
PANEL. VERIFY WITH EQUIPMENT VENDOR THAT AN OPTIONAL
REQUIREMENTS PRIOR TO ROUGH IN. PROVIDE ALL REQUIRED
USE CIRCUIT LB7-104, PROVIDE 20A/1P CIRCUIT BREAKER TO SERVE
MOUNT NEW RECESSED CAN LIGHT UNDERNEATH STAIR LANDING.
(16A LOAD MAX. PER 20A CIRCUIT).

COORDINATE WITH EQUIPMENT INSTALLER FOR LOCATIONS AND
CONTRACTOR SHALL REFERENCE ELEVATOR SPECIFICATIONS. COORDINATE
SEQUENCE EQUIPMENT TO SHUT-DOWN THE ELEVATOR BY SMOKE
CONNECT EMERGENCY SHUT-DOWN OF ELEVATOR AS REQUIRED.
CAPABLE OF LOCKING BREAKER IN OPEN POSITION. USE CIRCUIT LB7-110,
OTHERWISE PROVIDE WITH AND LOCATE NEAR THE EQUIPMENT.

CONNECT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA
(16A LOAD MAX. PER 20A CIRCUIT).

COORDINATE LOCATIONS OF ALL ELEVATOR IN ELEVATOR EQUIPMENT
ROOM WITH ELEVATOR SHOP DRAWINGS PRIOR TO ROUGH-IN.

CONNECT INTERIOR LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT.

ELEVATOR DISCONNECT SWITCH WITH BUILT IN SHUNT TRIP BY BUSSMANN.
PROVIDE 20A/1P CB AND 2/12, 1#12G, 3/4"C.
MOUNTED IN NEMA-1 ENCLOSURE WITH HANDLE PADLOCK ATTACHMENT
ELEVATOR CAB LIGHT DISCONNECT 20A., 1P., 120V. CIRCUIT BREAKERS
DISCONNECTING MEANS IS INCLUDED WITH THE PLATFORM LIFT,
PANEL. VERIFY WITH EQUIPMENT VENDOR THAT AN OPTIONAL
REQUIREMENTS PRIOR TO ROUGH IN. PROVIDE ALL REQUIRED
USE CIRCUIT LB7-104, PROVIDE 20A/1P CIRCUIT BREAKER TO SERVE
MOUNT NEW RECESSED CAN LIGHT UNDERNEATH STAIR LANDING.
(16A LOAD MAX. PER 20A CIRCUIT).

COORDINATE WITH ELECTRICAL CONTRACTOR WITH RESPECT TO LOCATION
AND PRODUCT SPECIFICATIONS.

ELEVATOR CAB LIGHT DISCONNECT 20A., 1P., 120V. CIRCUIT BREAKERS
DISCONNECTING MEANS IS INCLUDED WITH THE PLATFORM LIFT,
PANEL. VERIFY WITH EQUIPMENT VENDOR THAT AN OPTIONAL
REQUIREMENTS PRIOR TO ROUGH IN. PROVIDE ALL REQUIRED
USE CIRCUIT LB7-104, PROVIDE 20A/1P CIRCUIT BREAKER TO SERVE
MOUNT NEW RECESSED CAN LIGHT UNDERNEATH STAIR LANDING.
(16A LOAD MAX. PER 20A CIRCUIT).

COORDINATE WITH ELECTRICAL CONTRACTOR WITH RESPECT TO LOCATION
AND PRODUCT SPECIFICATIONS.

ELEVATOR CAB LIGHT DISCONNECT 20A., 1P., 120V. CIRCUIT BREAKERS
DISCONNECTING MEANS IS INCLUDED WITH THE PLATFORM LIFT,
PANEL. VERIFY WITH EQUIPMENT VENDOR THAT AN OPTIONAL
REQUIREMENTS PRIOR TO ROUGH IN. PROVIDE ALL REQUIRED
USE CIRCUIT LB7-104, PROVIDE 20A/1P CIRCUIT BREAKER TO SERVE
MOUNT NEW RECESSED CAN LIGHT UNDERNEATH STAIR LANDING.
(16A LOAD MAX. PER 20A CIRCUIT).

COORDINATE WITH ELECTRICAL CONTRACTOR WITH RESPECT TO LOCATION
AND PRODUCT SPECIFICATIONS.

ELEVATOR CAB LIGHT DISCONNECT 20A., 1P., 120V. CIRCUIT BREAKERS
DISCONNECTING MEANS IS INCLUDED WITH THE PLATFORM LIFT,
PANEL. VERIFY WITH ELECTRICAL CONSTRUCTION, FIELD
COORDINATE ALL CONNECTIONS TO ENSURE PROPER FUNCTIONING AND
MOUNTING. ADDITIONAL REQUIREMENTS: THE ELECTRICAL PANEL
SHALL BE LOCATED NEAR THE ELEVATOR. PROVIDE 20A/1P CB AND 2/12, 1#12G,
3/4"C. MOUNTED IN NEMA-1 ENCLOSURE, USE CIRCUIT LB7-104.

MOUNT LIGHT SWITCH FOR EXIT LIGHTS NEAR TO LEADERS INTO PIT.

COORDINATE WITH ENGINEERING, ELECTRICAL, AND STRUCTURAL CONSTRUCTION
WITH RESPECT TO LOCATION AND PRODUCT SPECIFICATIONS.

COORDINATE LIGHT FIXTURE LOCATION WITH RESPECT TO ELEVATOR CAB
LIGHTING FIXTURE LOCATION. PROVIDE 20A/1P CB AND 2/12, 1#12G,
3/4"C. MOUNTED IN NEMA-1 ENCLOSURE, USE CIRCUIT LB7-104.

COORDINATE WITH ENGINEERING, ELECTRICAL, AND STRUCTURAL CONSTRUCTION
WITH RESPECT TO LOCATION AND PRODUCT SPECIFICATIONS.

COORDINATE LIGHT FIXTURE LOCATION WITH RESPECT TO ELEVATOR CAB
LIGHTING FIXTURE LOCATION. PROVIDE 20A/1P CB AND 2/12, 1#12G,
3/4"C. MOUNTED IN NEMA-1 ENCLOSURE, USE CIRCUIT LB7-104.
BOLIN SCIENCE HALL - FIRST FLOOR - AREA 1A
MECHANICAL PLAN

BOLIN SCIENCE HALL - FIRST FLOOR - AREA 1B
MECHANICAL PLAN

BOLIN SCIENCE HALL - FIRST FLOOR - AREA 1C
MECHANICAL DEMOLITION PLAN

GENERAL NOTES

1. REFER TO SYMBOL LEGEND AND GENERAL NOTES.
2. REFER TO SPECIFICATIONS.
3. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPE OF WORK AREAS WITHIN THE BUILDING.
4. INSTALL 10" ROUND FIRE DAMPER SIMILAR TO RUSKIN FDR25 INSTALLED IN A HARD CEILING AREA.
5. INSTALL NEW FIRE DAMPER IN RETURN AIR DUCT, SIMILAR TO DUCTWORK IF FIRE DAMPER IS INSTALLED IN A HARD CEILING RESETTING THE FIRE DAMPER. PROVIDE ACCESS DOOR TO RUSKIN DIBD20G, 20X10. AND RETURN GRILLE SIMILAR TO TITUS NEEDED.
6. INSTALL RETURN AIR DUCT. COORDINATE LOCATION WITH CEILING PLAN AND OTHER TRADES. ENSURE RETURN AIR AND SUPPLY AIR ARE ARRANGED TO PROVIDE ENSURE RETURN AIR AND SUPPLY AIR ARE ARRANGED TO PROVIDE FREE PATH OUT OF THE NEW ROOM, IF NOT PROVIDE RETURN NEW RETURN AIR GRILLE, COORDINATE LOCATION WITH DEMOLITION NOTES. COORDINATE LOCATION OF GRILLE WITH RELOCATE RETURN AIR GRILLE. INSTALL NEW RETURN GRILLE IF DEMOLITION IS DAMAGED. REFER TO DEMOLITION NOTES.
7. INSTALL FIRE DAMPER IN RETURN AIR DUCT. REFER TO INSTALL RETURN AIR DUCT. REFER TO INSTALLATION MEMO FOR INSTALLATION OF DIFFUSER WITH CEILING PLANS AND OTHER TRADES. ENSURE RETURN AIR AND SUPPLY AIR ARE ARRANGED TO PROVIDE FREE PATH OUT OF THE NEW ROOM, IF NOT PROVIDE RETURN NEW RETURN AIR GRILLE, COORDINATE LOCATION WITH DEMOLITION NOTES. COORDINATE LOCATION OF GRILLE WITH RELOCATE RETURN AIR GRILLE. INSTALL NEW RETURN GRILLE IF DEMOLITION IS DAMAGED. REFER TO DEMOLITION NOTES.
8. INSTALL 10" ROUND FIRE DAMPER SIMILAR TO RUSKIN FDR25 INSTALLED IN A HARD CEILING AREA.
9. INSTALL NEW FIRE DAMPER IN RETURN AIR DUCT, SIMILAR TO DUCTWORK IF FIRE DAMPER IS INSTALLED IN A HARD CEILING RESETTING THE FIRE DAMPER. PROVIDE ACCESS DOOR TO RUSKIN DIBD20G, 20X10. AND RETURN GRILLE SIMILAR TO TITUS NEEDED.
10. INSTALL RETURN AIR DUCT. COORDINATE LOCATION WITH CEILING PLAN AND OTHER TRADES. ENSURE RETURN AIR AND SUPPLY AIR ARE ARRANGED TO PROVIDE FREE PATH OUT OF THE NEW ROOM, IF NOT PROVIDE RETURN NEW RETURN AIR GRILLE, COORDINATE LOCATION WITH DEMOLITION NOTES. COORDINATE LOCATION OF GRILLE WITH RELOCATE RETURN AIR GRILLE. INSTALL NEW RETURN GRILLE IF DEMOLITION IS DAMAGED. REFER TO DEMOLITION NOTES.
11. INSTALL FIRE DAMPER IN RETURN AIR DUCT. REFER TO INSTALL RETURN AIR DUCT. REFER TO INSTALLATION MEMO FOR INSTALLATION OF DIFFUSER WITH CEILING PLANS AND OTHER TRADES. ENSURE RETURN AIR AND SUPPLY AIR ARE ARRANGED TO PROVIDE FREE PATH OUT OF THE NEW ROOM, IF NOT PROVIDE RETURN NEW RETURN AIR GRILLE, COORDINATE LOCATION WITH DEMOLITION NOTES. COORDINATE LOCATION OF GRILLE WITH RELOCATE RETURN AIR GRILLE. INSTALL NEW RETURN GRILLE IF DEMOLITION IS DAMAGED. REFER TO DEMOLITION NOTES.
12. INSTALL 10" ROUND FIRE DAMPER SIMILAR TO RUSKIN FDR25 INSTALLED IN A HARD CEILING AREA.
13. INSTALL NEW FIRE DAMPER IN RETURN AIR DUCT, SIMILAR TO DUCTWORK IF FIRE DAMPER IS INSTALLED IN A HARD CEILING RESETTING THE FIRE DAMPER. PROVIDE ACCESS DOOR TO RUSKIN DIBD20G, 20X10. AND RETURN GRILLE SIMILAR TO TITUS NEEDED.
14. INSTALL RETURN AIR DUCT. COORDINATE LOCATION WITH CEILING PLAN AND OTHER TRADES. ENSURE RETURN AIR AND SUPPLY AIR ARE ARRANGED TO PROVIDE FREE PATH OUT OF THE NEW ROOM, IF NOT PROVIDE RETURN NEW RETURN AIR GRILLE, COORDINATE LOCATION WITH DEMOLITION NOTES. COORDINATE LOCATION OF GRILLE WITH RELOCATE RETURN AIR GRILLE. INSTALL NEW RETURN GRILLE IF DEMOLITION IS DAMAGED. REFER TO DEMOLITION NOTES.
15. INSTALL FIRE DAMPER IN RETURN AIR DUCT. REFER TO INSTALL RETURN AIR DUCT. REFER TO INSTALLATION MEMO FOR INSTALLATION OF DIFFUSER WITH CEILING PLANS AND OTHER TRADES. ENSURE RETURN AIR AND SUPPLY AIR ARE ARRANGED TO PROVIDE FREE PATH OUT OF THE NEW ROOM, IF NOT PROVIDE RETURN NEW RETURN AIR GRILLE, COORDINATE LOCATION WITH DEMOLITION NOTES. COORDINATE LOCATION OF GRILLE WITH RELOCATE RETURN AIR GRILLE. INSTALL NEW RETURN GRILLE IF DEMOLITION IS DAMAGED. REFER TO DEMOLITION NOTES.
EPOXY COATED. ALL WELDING SHALL BE ACCORDANCE WITH AWA D1.1 TO PROVIDE WATERTIGHT VESSEL THAT WILL
OFF, PUMP ON, AND HIGH LEVEL. PROVIDE A FACTORY PREWIRED NEMA 6P WATER TIGHT JUNCTION BOX WITH A DIN
SEPARATOR, THE PANEL SHALL HAVE A "SEPARATOR HIGH LEVEL" ILLUMINATED RED LIGHT & HIGH DECIBEL WARNING
SHALL OPERATE AUTOMATICALLY EITHER CONTINUOUSLY OR INTERMITTENTLY AS REQUIRED BY THE ON-OFF FLOAT
SUMP PUMP SHALL BE AS SPECIFIED ON THE SCHEDULE, HEAVY DUTY SUBMERSIBLE TYPE, CAPABLE OF PUMPING
SUMP PUMP
STORM SEWER IS NOT PERMITTED. SYSTEMS THAT DO NOT REMOVE THE OIL WILL NOT BE ACCEPTED.

GENERAL

50 GPM OR 3000 GPH AS PER ASME A17.1 SECTION 2.2.2.5 (2007). THE OIL/WATER SEPARATOR SHALL BE A
THE PANEL ALSO INCLUDES A SEPARATE OVER-CURRENT RELAY AND FIELD ADJUSTABLE MOTOR OVERLOAD HAVING A
THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND LOCAL PLUMBING CODES. PUMPING INTO THE
SYSTEM SHALL BE CAPABLE OF PUMPING ALL WATER & FLUIDS AUTOMATICALLY FROM THE ELEVATOR PIT AS
ACCEPTED.

AUTOMATICALLY TO REMOVE WATER AND FLUIDS FROM THE PIT AUTOMATICALLY WITHOUT ANY HUMAN

LEVEL ALARMS

SEPARATOR

POWER

1/2"
**Graphic Symbols**

- **Double Line Pipe Break:** Used to indicate the location of a pipe break in the drawing.
- **Tee Fitting:** Represents a tee fitting in the piping system.
- **Flow Switch:** Indicates the presence of a flow switch in the system.
- **Revision Delta:** Marks revisions or updates to the drawing.

**Miscellaneous Symbols**

- **System Designation:** Identifies the system being referenced.
- **Elevations:** Shows the elevation of various components.
- **Footnotes:** Provides additional information or notes related to specific parts of the drawing.

**Sprinkler Designations**

- **Pendent Sprinkler:** Sprinkler head mounted from the ceiling.
- **Side Wall Sprinkler:** Sprinkler head mounted to the side wall.

**Fire Protection General Notes**

- **Notify Sprinkler Contractor:** Sprinkler systems shall be coordinated with the structural engineer.
- **Note:** Contains specific instructions or notes related to the installation or operation of the sprinkler system.

**Valve Symbols**

- **Check Valve:** Valve used to allow fluid to flow in one direction only.
- **Isolation Valve:** Valve used to isolate sections of the system for maintenance or repair.
- **Shut-Off Valve:** Valve used to stop or regulate the flow of fluid.

**Sprinklers**

- **Pendent Sprinkler:** Pendent sprinklers shall be connected to the supply piping by a minimum of 2" pipe.
- **Side Wall Sprinkler:** Side wall sprinklers shall be connected to the supply piping by a minimum of 2" pipe.

**Equipment**

- **Unit:** A unit of measurement, typically in inches or feet, used to specify dimensions.
- **Pipe Size:** Indicates the size of the pipe, such as 2" or 3".

**Fire Protection General Notes**

- **Sprinkler Systems:** Sprinkler systems shall be coordinated with the architectural engineer.
- **Valves:** Valves shall be located as shown, and all other valves shall be located as shown unless otherwise specified.
- **Sprinkler Heads:** Sprinkler heads shall be installed in accordance with the manufacturer's instructions.

**Contractor Instructions**

- **Valves:** Valves shall be located as shown, and all other valves shall be located as shown unless otherwise specified.
- **Sprinkler Systems:** Sprinkler systems shall be coordinated with the architectural engineer.

**Notes**

- **Check Valve:** Check valves shall be installed as shown, and all other check valves shall be located as shown unless otherwise specified.
- **Isolation Valve:** Isolation valves shall be installed as shown, and all other isolation valves shall be located as shown unless otherwise specified.

**Graphic Notes**

- **Silent Line:** A line used to denote information about a specific area or feature on the drawing.
- **Footnotes:** Notes related to specific parts of the drawing, such as dimensions or codes.

**Fire Protection General Notes**

- **Indication Center to Centre Dimensions:** Indication center to center dimensions of all components are shown.
- **Flow Switch:** Flow switches shall be located as shown, and all other flow switches shall be located as shown unless otherwise specified.

**Sprinklers**

- **Pendent Sprinkler:** Pendent sprinklers shall be connected to the supply piping by a minimum of 2" pipe.
- **Side Wall Sprinkler:** Side wall sprinklers shall be connected to the supply piping by a minimum of 2" pipe.

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**Graphic Notes**

- **Silent Line:** A line used to denote information about a specific area or feature on the drawing.
- **Footnotes:** Notes related to specific parts of the drawing, such as dimensions or codes.

**Fire Protection General Notes**

- **Indication Center to Centre Dimensions:** Indication center to center dimensions of all components are shown.
- **Flow Switch:** Flow switches shall be located as shown, and all other flow switches shall be located as shown unless otherwise specified.
BOLIN SCIENCE HALL - FIRST FLOOR - AREA 1C
FIRE PROTECTION PLAN

GENERAL NOTES:

1. REFER TO DETAIL 2/B-FP101.
2. REFER TO SPECIFICATIONS.
3. REFER TO ARCHITECTURAL OVERALL FLOOR PLANS FOR LOCATIONS SCOPE OF WORK AREAS WITHIN THE BUILDING.

KEY NOTES:

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

TYPICAL FIRE RISER DETAIL

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

1. CONNECT NEW 6" FIRE LINE TO MAIN WATER SERVICE LINE. FIELD VERIFY EXACT LOCATION OF SAID EXISTING WATER MAIN. CONTRACTOR TO COORDINATE EXACT LOCATION OF TIE-INS WITH MSU STAFF.

2. PER FIRE PROTECTION GENERAL NOTES ON SHEET FP001, 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.

3. PROVIDE FIRE SPRINKLER SYSTEM FOR AREA UNDERNEATH THE STAGE AS PART OF ALTERNATE #2.

4. HORIZONTAL BACKFLOW PREVENTOR SHOWN FOR DIAGRAMMATIC PURPOSES. RECOMMEND USING VERTICAL BACKFLOW PREVENTOR DUE TO SPACE CONSTRAINTS.

5. INSTALL NEW WATERFALL CURTAIN AT PROSCENIUM OPENING.

6. 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.

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DATE SIGNED: H. A. ARCHITECTS · PROGRAMMERS · PLANNERS
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DATE: 15 MAY 2017
DRAWN BY:

HARDIN ADMIN BUILDING - FIRST FLOOR - AREA 1A
FIRE PROTECTION PLAN

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