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<td>Z</td>
<td>Corridor</td>
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**EXISTING ALLOWABLE AREA**

- **ADDITION TO BE INCLUDED IN EXISTING ALLOWABLE AREA**
  - 43500 sq ft
  - 75' above grade plane

**2014 ICC 500 Standard on Design and Construction of Storm Shelters**

- **Project Name**: Liberty Public Schools
- **Project Area**: EPiC Elementary Storm Shelter Addition
- **Job No**: 11827 W 11th Street, Suite 200
- **Purpose**: To design the future storm shelter for the school district at the EPiC Elementary School location
- **Contact Information**: Bob D. Campbell & Co., Olathe, KS 66061

**Code Legend**

- **EXISTING BUILDINGS/NEW WORK**
- **EXISTING BUILDINGS/ALTERNATIVE LEVEL 1 & 2**
- **EXISTING BUILDING/ALTERNATIVE LEVEL 3**
- **EXISTING BUILDING/ALTERNATIVE LEVEL 4**

**Building Information**

- **DATE OF SUBMISSION**: 10/11/2023
- **BUILDING COORDINATES**: 131' - 6" / 123 345

**Egress Components**

- **Exit Component**: No exit signs
- **Equipment Sub**: No equipment

**Fire Safety Features**

- **Exit Signage**: No exit signs
- **Exit Equipment**: No exit equipment

**Building Area Calculations**

- **EXISTING BUILDING/FUNCTIONS/BUILDING Pack 1: Existing Building Occupant Load Table**
- **EXISTING BUILDING/FUNCTIONS/BUILDING Pack 2: Overall Code Plan**
- **EXISTING BUILDING/FUNCTIONS/BUILDING Pack 3: Building Area Calculations**
- **EXISTING BUILDING/FUNCTIONS/BUILDING Pack 4: Existing Building Area Calculations**
- **EXISTING BUILDING/FUNCTIONS/BUILDING Pack 5: Building Safety Site Plan and General Information**
EXISTING BUILDING

architecture # 0000161
structure # 2006031333
Missouri state certificate of authority
Hollis + Miller Architects

DRAWN BY:
DATE:
REVISIONS:

Liberty Public Schools
EPiC Elementary Addition
650 Conistor St
Liberty, MO 64068

The Professional Engineer's seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this engineer, and this engineer expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal.

Please consider the environment before printing this.

MKEC Engineering, Inc.
Civil Engineering / Landscape Architecture
State Certificate of Authority #:
Engineering: 2001009364
Landscaping: 2006027139
Surveying: 2006027138
11827 W. 112th St, Ste 200
Overland Park, KS 66210
913.317.9390 phone

Smith & Boucher Engineers
Mech/Elect/Plumb Engineer
State Certificate of Authority #EGC-0001787
25501 W. Valley Parkway, Ste 200
Olathe, KS 66061
913.345.2127 phone

Bob D Campbell
Structural Engineer
State Certificate of Authority #000442
4338 Belleview Ave
Kansas City, MO 64111
816.531.4144 phone

DC101
DEMOLITION PLAN

10.11.2023

SEK
BLT
BRADEN L. TAYLOR, P.E.
LISC. #2021001896

DEMOLITION NOTES:
1. CONSTRUCTION SITE IS TO BE DEMOLISHED IN THE PHASES PERMITTED IN THE PROJECT SCHEDULE.
2. CONSTRUCTION SCHEDULE Shows Phases 1, 2, 3, and 4 of demolition. Phases 2 and 3 are to be completed in a single shift.
3. CONSTRUCTION SCHEDULE shows Phases 1, 2, 3, and 4 of demolition. Phases 2 and 3 are to be completed in a single shift.
4. CONSTRUCTION SCHEDULE shows Phases 1, 2, 3, and 4 of demolition. Phases 2 and 3 are to be completed in a single shift.

DEMOLITION LEGEND:
- IN PLACE
- DUMP TRASH
- DUMP CONCRETE
- DUMP MUD HANGERS

DC101
NOT IN SCOPE
DEMO POWER PLAN - LEVEL 1

1. Remove all lighting fixtures and disconnect wiring. Verify and restore continuity of all existing circuitry. Do not interrupt wiring that becomes unnecessary as a result of the removal of fixtures, devices or equipment that shall be removed.

2. Disconnect and remove all circuitry, disconnects, fixtures, devices or equipment that shall be removed. Label all circuitry to facilitate restoration of continuity.

3. Spare. Cap all unused conduit and wiring beyond the equipment indicated to be removed. Label all circuitry. Identify and remove all circuitry, disconnects, fixtures, devices or equipment that shall be removed.

4. Mark all conduit and wiring to facilitate restoration of circuit continuity. Verify and restore continuity of all existing circuitry.

5. Any conduit or wiring to be removed shall be identified and marked. All unnecessary conduit and wiring shall be removed. All required conduit and wiring shall be identified and marked. All remaining conduit and wiring shall be identified and marked. All conduit and wiring to be removed shall be identified and marked.

6. Any conduit or wiring to be removed shall be identified and marked. All unnecessary conduit and wiring shall be removed. All required conduit and wiring shall be identified and marked. All remaining conduit and wiring shall be identified and marked. All conduit and wiring to be removed shall be identified and marked.

7. All conduit and wiring shall be identified and marked. All conduit and wiring to be removed shall be identified and marked. All remaining conduit and wiring shall be identified and marked.
EXISTING BUILDING

PROPOSED BUILDING

FFE=844.43

CONISTOR ST

Hollis + Miller Architects

LIBERTY PUBLIC SCHOOLS
EPiC ELEMENTARY ADDITION
650 CONISTOR ST
LIBERTY, MO 64068

C101

OVERALL SITE PLAN

20.23.2023

CONFORMED

CONSTRUCTION DOCUMENTS

The Professional Engineers seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this engineer, and this engineer expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal.

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Liberty Public Schools

EPiC Elementary Addition
650 Conistor St
Liberty, MO 64068

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Civil Engineering / Landscape Architecture
State Certificate of Authority #:
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Landscaping: 2006027139
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Structural Engineer
State Certificate of Authority #000442
4338 Belleview Ave
Kansas City, MO 64111
816.531.4144 phone
EXISTING CONDITIONS PLAN

CONTROL POINTS & BENCHMARKS

D102

Liberty Public Schools
EPiC Elementary Addition
650 Conistor St
Liberty, MO 64068

SCALE: 1"=10'

10.11.2023

BRADEN L. TAYLOR, P.E.
LISC. #2021001896

Please consider the environment before printing this.
1. REFER TO SHEET G000 FOR SHEET INDEX
2. REFER TO MEP AND TECHNOLOGY SHEETS FOR SPECIFIC CEILING MOUNTED DEVICES
3. CEILING GRIDS SHOULD BE CENTERED IN ROOM

Sheet Material Finish Legend

Warming Kitchen
C124b

Multipurpose Room
C124

Electrical
CX

Storage
CX

Data
CX

Project Room
C119

Corridor
C122

Girls
CX

Boys
CX

Corridor
C121

Project Area
C118

Conference A
C108A

Conference B
C108B

Reception
C101

Vestibule
C100

Office
C103

Office
C104

Nurse
C105

Toilet
C106

Toilet
C107

Staff Work
C102

Learning Lab
C112

Collaboration
C110

Huddle
C109

Tinker Room
C117

Learning Lab
C116

Conference
C111

Conference
C114

Stair
CX

Closet
C115

AFF 10'-0"
1. REFER TO SHEET G000 FOR SHEET INDEX

2. DO NOT SCALE THIS DRAWING

3. REFER TO INTERIOR ELEVATIONS, FOR PLACEMENT OF ALL WALL MOUNTED ITEMS

4. WALL MOUNTED LIGHT FIXTURES, GRILLES AND OTHER MEP ITEMS ARE SHOWN FOR PLACEMENT ONLY

Level 1

100' - 0"

T.O. Gym
129' - 0"

T.O. Art
115' - 4"

Baggage Claim
100' - 0"

Pine Hall
35' - 0"

Music
101' - 2"

T.O. Gym
129' - 0"

T.O. Art
115' - 4"

Baggage Claim
100' - 0"

Pine Hall
35' - 0"

Music
101' - 2"
### GENERAL FINISH NOTES

1. REFER TO FINISH FLOOR PLANS, REFLECTED CEILING PLANS, ELEVATIONS, AND DETAILS FOR EXTENT OF MULTIPLE FINISHES.
2. DO NOT PAINT JUNCTIONS, OR MANUFACTURED STONE, BRICK, GLAZED BLOCK OR ANY OTHER PREFINISHED MATERIALS.
3. DO NOT PAINT ALUMINUM OR OTHER NON-FERROUS METALS THAT ARE PREFINISHED.
4. MATCH VERTICAL FINISH OF ALL INTERIOR GYPSUM BOARD SOFFITS TO HORIZONTAL FINISH AS NOTED ON RCP OR ROOM FINISH SCHEDULE, UNLESS OTHERWISE SPECIFIED.
5. PAINT ALL EXPOSED STEEL STRUCTURE AS INDICATED ON ROOM FINISH SCHEDULE. PAINTING INCLUDES, BUT IS NOT LIMITED TO: EXPOSED STRUCTURE, JOISTS, METAL DECKING, EXISTING TECTUM PANELS, DUCTWORK AND MECHANICAL EQUIPMENT.
6. PAINT ALL EXPOSED STEEL, UNLESS OTHERWISE SPECIFIED.
7. PAINT ALL EXPOSED METAL DOORS, DEVICES AND FRAME COLOR # 1 FOR Lumia.
8. PAINT OR PAINT TO MATCH ADJACENT PAINT OR FINISH.
   - ELECTRICAL PANELS BLENDED TO MATCH DEVICES, UNLESS OTHERWISE SPECIFIED.
   - GRILLE, LOUVERS ETC. PRIMED OR SPECIFIED TO BE PAINTED, UNLESS OTHERWISE SPECIFIED.
9. DO NOT PAINT ALUMINUM OR OTHER NON-FERROUS METALS THAT ARE PREFINISHED.

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REVISIONS:
- DATE: 10/11/2023
- CHECKED BY: [Signature]
- DRAWN BY: [Signature]
- JOB NO: [Job Number]
## ROOM SCHEDULE REMARKS

1. PROVIDE LEVEL 5 FINISH FOR GYPSUM BOARD SURFACE

Please consider the environment before printing this.
These general notes are supplemental to the project manual.

- Contractor to verify all existing finishes and materials, including but not limited to: finishes, flooring, wall coverings, ceiling grids, lighting fixtures, etc. Failure to determine and verify existing conditions will result in incomplete work.

- Any discrepancies found on the site shall be reported to the architect in writing prior to beginning work.

- All electrical and mechanical systems shall be coordinated with the primary service providers.

- Pre-fab fabrication drawings and materials shall be coordinated with the architect.

- All contract documents are subject to change without notice.

- Any discrepancies and/or conflicts shall be reported to the architect in writing before proceeding.

- All subcontractors and suppliers shall be reviewed and approved by the architect.

- All drawings and specifications are preliminary and subject to change.

- All information is for design and planning purposes only. Actual conditions may vary.

- All contract documents are subject to change without notice, and the architect reserves the right to make changes at any time.

- All subcontractors and suppliers shall be reviewed and approved by the architect.

- All materials shall be approved by the architect before use.

- All electrical and mechanical systems shall be coordinated with the primary service providers.

- All signs and graphics shall be coordinated with the architect.

- All contract documents are subject to change without notice.

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- All materials shall be approved by the architect before use.
1. Design Information:

- The design is in accordance with the provisions of the 2014 International Building Code (IBC)
- The design is in accordance with the provisions of the ASCE 7-16
- The design is in accordance with the provisions of the ICC/NSSA Standard

2. Statement of Structural Special Inspections:

- The structural special inspections shall be conducted in accordance with the provisions of the IBC
- The structural special inspections shall be conducted in accordance with the provisions of the ASCE 7-16
- The structural special inspections shall be conducted in accordance with the provisions of the ICC/NSSA Standard

3. ICC 106 Contractor Responsibility:

- The contractor is responsible for the construction of the structure in accordance with the design
- The contractor is responsible for the construction of the structure in accordance with the code
- The contractor is responsible for the construction of the structure in accordance with the ASCE 7-16

4. Building Special Inspections:

- The special inspections shall be conducted in accordance with the provisions of the IBC
- The special inspections shall be conducted in accordance with the provisions of the ASCE 7-16
- The special inspections shall be conducted in accordance with the provisions of the ICC/NSSA Standard

5. Soil Bearing:

- The soil bearing shall be determined in accordance with the provisions of the IBC
- The soil bearing shall be determined in accordance with the provisions of the ASCE 7-16
- The soil bearing shall be determined in accordance with the provisions of the ICC/NSSA Standard

6. Design Rainfall Intensity:

- The design rainfall intensity shall be determined in accordance with the provisions of the IBC
- The design rainfall intensity shall be determined in accordance with the provisions of the ASCE 7-16
- The design rainfall intensity shall be determined in accordance with the provisions of the ICC/NSSA Standard

7. Building Components & Cladding Wind Loads:

- The building components & cladding wind loads shall be determined in accordance with the provisions of the IBC
- The building components & cladding wind loads shall be determined in accordance with the provisions of the ASCE 7-16
- The building components & cladding wind loads shall be determined in accordance with the provisions of the ICC/NSSA Standard

8. Wind Load Diagram:

- The wind load diagram shall be determined in accordance with the provisions of the IBC
- The wind load diagram shall be determined in accordance with the provisions of the ASCE 7-16
- The wind load diagram shall be determined in accordance with the provisions of the ICC/NSSA Standard

9. Storm Shelter Details:

- The storm shelter details shall be determined in accordance with the provisions of the IBC
- The storm shelter details shall be determined in accordance with the provisions of the ASCE 7-16
- The storm shelter details shall be determined in accordance with the provisions of the ICC/NSSA Standard

10. Design Force:

- The design force shall be determined in accordance with the provisions of the IBC
- The design force shall be determined in accordance with the provisions of the ASCE 7-16
- The design force shall be determined in accordance with the provisions of the ICC/NSSA Standard

11. Design Load:

- The design load shall be determined in accordance with the provisions of the IBC
- The design load shall be determined in accordance with the provisions of the ASCE 7-16
- The design load shall be determined in accordance with the provisions of the ICC/NSSA Standard

12. Design Pressure:

- The design pressure shall be determined in accordance with the provisions of the IBC
- The design pressure shall be determined in accordance with the provisions of the ASCE 7-16
- The design pressure shall be determined in accordance with the provisions of the ICC/NSSA Standard

13. Design Load Combination:

- The design load combination shall be determined in accordance with the provisions of the IBC
- The design load combination shall be determined in accordance with the provisions of the ASCE 7-16
- The design load combination shall be determined in accordance with the provisions of the ICC/NSSA Standard

14. Design Load Duration:

- The design load duration shall be determined in accordance with the provisions of the IBC
- The design load duration shall be determined in accordance with the provisions of the ASCE 7-16
- The design load duration shall be determined in accordance with the provisions of the ICC/NSSA Standard

15. Design Load Special Event:

- The design load special event shall be determined in accordance with the provisions of the IBC
- The design load special event shall be determined in accordance with the provisions of the ASCE 7-16
- The design load special event shall be determined in accordance with the provisions of the ICC/NSSA Standard
1. In addition to spacing shown in schedule, vertical reinforcing shall be spaced at a maximum of 24" on center and not less than 2'.

2. Each side of vertical control joints past edge of opening on each side (typical).

3. Vertical control joints in masonry walls shall be 3/8" wide, full height of wall. Joints shall be detailed on reinforcing steel shop drawing elevations.

4. In the end cells on each side of vertical control joints, precast double 8" CMU wall reinforcing at openings up to 4'.

5. Full height vertical bars as jamb reinforcing in first 2 cells adjacent to opening. Reinforce and spacing.

6. Control joint shall be continuous. Horizontal bars as sill reinforcing in 8" course below opening (U.N.O.). Extend 2'.

7. All horizontal joint reinforcing shall be discontinuous at control joints. All horizontal and vertical control joint reinforcing shall be continuous (in 6' increments) as indicated on drawings. These walls are to be anchored top and bottom.

8. Bond beams (2) #5 cont. LG @ 4' (top of wall 0" past edge of opening on each side (typical)).

9. Contractor shall coordinate and verify all control joint locations. Openings. All horizontal joint reinforcing shall be discontinuous at control joints. All vertical control joint reinforcing shall be continuous (in 6' increments) as indicated on drawings. These walls are to be anchored top and bottom.

10. Column shall span a maximum of 4' and provide 1" bearing surface. Holes in CMU plate shall be a minimum of 3/4" in diameter.

11. All 8" walls (U.N.O.) - (2) #4 cont. anchors w/ 3½" embedment, TYP.

12. Plan and structural drawings are to be reinforced horizontally with single bar reinforcing. Lapping bar location indicated on drawings. These walls are to be anchored top and bottom.

13. Corner of CMU wall typical bond beam detail at corner of CMU wall.

14. 5/8" diameter single layer of tie around to beam top and structural steel plate as required for shear. Placing. Column shall span a maximum of 4' and provide 1" bearing surface. Holes in CMU plate shall be a minimum of 3/4" in diameter.

15. 8" CMU walls - 12" CMU walls

16. Beam flange for slot in CMU wall, typically 4" to 12'.

17. Bears offset to arch architectural partition walls. Refer to architectural and structural drawings for locations. These walls are to be anchored top and bottom.

18. 2 1/2" +/ - "T + 8" FOR 8" CMU WALL

19. Single bar reinforcing location indicated on drawings. Lapping bar location shown for shear. Placing. Column shall span a maximum of 4' and provide 1" bearing surface. Holes in CMU plate shall be a minimum of 3/4" in diameter.

20. Void in masonry walls shall be rejected. Any masonry w/ mortar projections voids shall be rejected. Mortar CMU voids shall be grouted shall be free of debris and mortar droppings prior to grouting. Any masonry w/ mortar droppings observed in voids shall be rejected.
CONCRETE PILASTER SCHEDULE

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>ANGLE</th>
<th>CAD BLOCKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - CONCRETE PILASTER 1</td>
<td>45°</td>
<td>P1, P2</td>
</tr>
<tr>
<td>2 - CONCRETE PILASTER 2</td>
<td>30°</td>
<td>P3, P4</td>
</tr>
</tbody>
</table>

FOUNDATION PLAN

- Concrete (PSI): 3500
- Vert. Reinf. Ties
- T/FTG EL. = 93'
- (3) @ 3" o.c. TOP
- REMAINDER @ 12" o.c.
- 60

NOTES:
- 3/16" = 1'-0"
- FIELD VERIFY ALL EXISTING CONDITIONS

EPIC Elementary Storm Shelter Addition
Liberty Public Schools

- LINTEL PER DETAIL
  PROVIDE NEW LOOSE OPENING, AND TEMP SHORING (BY GC)

- CONSTRUCTION COMPLETED: 9/29/2023
  1 Addendum 01 09/14/2023
  2 Addendum 04 09/29/2023

- Conform Construction

- MKEC Engineering, Inc.
  Architecture # 0000161
  Structure # 2006031333
  State Certificate of Authority

- Hollis + Miller Architects
  Landscaping #2006027139
  Engineering #2001009364
  State Certificate of Authority

- Bob D. Campbell & Co.
  913.317.9390 phone
  Overland Park, KS 66210

- 816.531.4144 phone
  Kansas City, MO 64111

- Landscaping #2006027139
  Engineering #2001009364
  State Certificate of Authority
ROOF FRAMING PLAN

1. NOTES:
   - 3/16" = 1'-0"
   - FIELD VERIFY ALL EXISTING CONDITIONS

2. OPENINGS IN STORM SHELTER AT ALL ROOF AND WALL RATED OPENING PROTECTION REFER TO MEP DRAWINGS FOR LOCATIONS, ETC. w/ MEP AND WEIGHTS, DIMENSIONS, DESIGN DOUBLE-

3. CONCENTRATED LOADS AT TYP.: PRECAST SUPPLIER DESIGN-

4. W14X22 (CONT.)

5. RTU

6. W12X14

7. W16X26

8. E = 45 KIP (ULT.)

9. W = 140 KIP (ULT.)

10. V = 16kip (ASD)

11. M = 30k

12. V = 20kip (ASD)

13. M = 35k

14. LEVEL BEAM

15. 10'-0" RTU

16. 11'-6"

17. 5'-3"

18. 112'-2 5/8" T

19. 112'-4 3/4" T

20. 112'-5 7/8" T

21. 112'-6 7/8" T

22. DOORS AND WINDOWS PER CONSTRUCTION DRAWINGS

23. LINTEL PER DETAIL

24. NEW OPENING, AND FOR EXISTING BRICK AT TEMPERATURE SHORING (BY GC)

25. RTU - 500 SECTION 309

26. JOINT

27. 7'-4"
### MECHANICAL AND ELECTRICAL SYMBOLS AND ABBREVIATIONS

These symbols are used in the drawings and should be interpreted as per the American National Standards Institute (ANSI) regulations for all drawings not exhibiting this seal.
MECHANICAL AND ELECTRICAL ROOF PLAN - AREA A

GENERAL NOTES:

INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.

CAREFULLY COORDINATE ROUTING OF SERVICES WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES.

COORDINATE INSTALLATION AND PENETRATIONS OF ALL NEW SERVICES WITH STRUCTURAL PRIOR TO CUTTING.

EXTEND ALL CONDENSATE DRAINS TO NEAREST ROOF DRAIN.

PAINT ALL PVC PIPING ON ROOF TO PROVIDE FOR UV PROTECTION. PAINT HORIZONTAL PIPING WHITE. PAINT VERTICAL PIPING COLOR AS DIRECTED BY ARCHITECT.

ALL SERVICES SHOWN HALF TONE ARE EXISTING.

MECHANICAL PLAN NOTES:

PROVIDE REFRIGERATION LINESETS THROUGH THE ROOF BETWEEN THE INDOOR UNIT AND OUTDOOR CONDENSING UNIT. REFER TO THE MANUFACTURER'S REQUIREMENTS FOR PIPE SIZES AND QUANTITY.

MAINTAIN 10'-0" SEPARATION FROM ALL OUTSIDE AIR INTAKES.

8"X8" OUTSIDE AIR DUCT THROUGH THE ROOF. TERMINATE VIA GOOSENECK WITH BIRD SCREEN OVER DUCT OPENING.

PROVIDE CURB-MOUNTED ROOFTOP UNIT SCREEN.

3/4" COLD WATER DOWN THROUGH ROOF.

8' CONDENSATE DRAINS TO ROOF DRAIN.

GFI/WP CONDENSATE DRAINS TO ROOF DRAIN.

(67 GPM) (47 GPM)

RTU-5

11827 W 112th Street, Suite 200
Overland Park, KS 66210
913.317.9390 phone

MISSOURI STATE CERTIFICATE OF AUTHORITY
ARCHITECTURE # 0000161
STRUCTURE # 2006031333

HOLLIS + MILLER ARCHITECTS
JOB NO:
23020.00 Liberty Public Schools
EPiC Elementary Storm Shelter Addition
MECH-231
10/11/2023

SCALE
1/8" = 1'-0"

SHEET KEYNOTE LEGEND

Please consider the environment before printing this.
## AIR CONDITIONING UNIT SCHEDULE

<table>
<thead>
<tr>
<th>Description</th>
<th>Model No.</th>
<th>SPEED</th>
<th>CAPACITY</th>
<th>V. CAPACITY</th>
<th>HEIGHT</th>
<th>THRUST</th>
<th>OUTLINE DIMENSION</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>AIR Conditioning Unit A</td>
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## FAN SCHEDULE

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<th>Manufacturer</th>
<th>Model No.</th>
<th>Speed</th>
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<th>V. Capacity</th>
<th>Height</th>
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<td>A001</td>
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## LOVER SCHEDULE

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<th>Model No.</th>
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<th>V. Capacity</th>
<th>Height</th>
<th>Thrust</th>
<th>Weight</th>
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<tr>
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## ROOFTOP UNIT - HEAT PUMP W/ELEC HEAT

<table>
<thead>
<tr>
<th>Description</th>
<th>Model No.</th>
<th>CAPACITY</th>
<th>V. CAPACITY</th>
<th>HEIGHT</th>
<th>THRUST</th>
<th>WEIGHT</th>
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</thead>
<tbody>
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## DUCTWORK SCHEDULE

### Supply Air Ducts (Low Pressure)

<table>
<thead>
<tr>
<th>Description</th>
<th>Diameter</th>
<th>Insulation</th>
<th>Material</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Air Duct A</td>
<td>100mm</td>
<td>20mm</td>
<td>PVC</td>
<td>Insulation for Supply Air Ducts</td>
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<tr>
<td>Supply Air Duct B</td>
<td>200mm</td>
<td>30mm</td>
<td>Aluminum</td>
<td>Insulation for Supply Air Ducts</td>
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### Return Air Ducts

<table>
<thead>
<tr>
<th>Description</th>
<th>Diameter</th>
<th>Insulation</th>
<th>Material</th>
<th>Notes</th>
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<tr>
<td>Return Air Duct A</td>
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</tr>
<tr>
<td>Return Air Duct B</td>
<td>200mm</td>
<td>20mm</td>
<td>Copper</td>
<td>Insulation for Return Air Ducts</td>
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</table>

### Transfer Air Ducts

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<th>Description</th>
<th>Diameter</th>
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<th>Material</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Transfer Air Duct A</td>
<td>150mm</td>
<td>15mm</td>
<td>Stainless Steel</td>
<td>Insulation for Transfer Air Ducts</td>
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<tr>
<td>Transfer Air Duct B</td>
<td>250mm</td>
<td>25mm</td>
<td>PEX</td>
<td>Insulation for Transfer Air Ducts</td>
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### Ductwork Insulation Schedule

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<th>Description</th>
<th>Diameter</th>
<th>Insulation</th>
<th>Material</th>
<th>Notes</th>
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<tbody>
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<td>Supply Air Duct</td>
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<td>PVC</td>
<td>Insulation for Supply Air Ducts</td>
</tr>
<tr>
<td>Return Air Duct</td>
<td>100mm</td>
<td>10mm</td>
<td>Steel</td>
<td>Insulation for Return Air Ducts</td>
</tr>
<tr>
<td>Transfer Air Duct</td>
<td>150mm</td>
<td>15mm</td>
<td>Stainless Steel</td>
<td>Insulation for Transfer Air Ducts</td>
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</tbody>
</table>

## HVAC PIPES INSULATION SCHEDULE

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<th>Description</th>
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<th>Insulation</th>
<th>Material</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC Pipe A</td>
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<td>5mm</td>
<td>Polyurethane</td>
<td>Insulation for HVAC Pipes</td>
</tr>
<tr>
<td>HVAC Pipe B</td>
<td>100mm</td>
<td>10mm</td>
<td>Fiberglass</td>
<td>Insulation for HVAC Pipes</td>
</tr>
</tbody>
</table>

## MECHANICAL AND ELECTRICAL - SCHEDULES

### ROOFTOP UNIT SCHEDULE - DX COOLING / ELEC HEAT

<table>
<thead>
<tr>
<th>Description</th>
<th>Model No.</th>
<th>CAPACITY</th>
<th>V. CAPACITY</th>
<th>HEIGHT</th>
<th>THRUST</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rooftop Unit A</td>
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</thead>
<tbody>
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<td>HVAC Pipe</td>
<td>50mm</td>
<td>5mm</td>
<td>Polyurethane</td>
<td>Insulation for HVAC Pipes</td>
</tr>
<tr>
<td>HVAC Pipe</td>
<td>100mm</td>
<td>10mm</td>
<td>Fiberglass</td>
<td>Insulation for HVAC Pipes</td>
</tr>
</tbody>
</table>

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**Notes:**
- Insulation thickness for pipes and ducts is 5mm for HVAC pipes and 10mm for HVAC ducts.
- Ductwork and HVAC pipes are insulated to maintain optimal temperature and efficiency.
- HVAC systems are designed to meet energy efficiency standards and local codes.
- Insulation materials are selected for durability and energy conservation.

---

**Additional Notes:**
- All materials are selected for durability and energy conservation.
- HVAC systems are designed to meet energy efficiency standards and local codes.
- Insulation materials are selected for durability and energy conservation.
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- Insulation materials are selected for durability and energy conservation.
PLUMBING PLAN - LEVEL 1 - AREA A

PLAN NOTES:
- 4" STORM AND 4" STORM OVERFLOW UP TO ROOF DRAIN.
- 6" STORM DOWN IN CHASE AND THROUGH FLOOR.
- 6" STORM OVERFLOW DOWN TO DOWNSPOUT NOZZLE MOUNTED AT 24" ABOVE FINISHED GRADE.
- 3/4" CW UP TO ROOF HYDRANT.
- ROUTE HOT WATER PIPING DOWN IN WALL AND WITHIN 6" OF THE LAVATORY HOT WATER CONNECTION.
- PROVIDE POINT-OF-USE PLASTER TRAP UNDER THE SINK AND IN AN ACCESSIBLE LOCATION FOR MAINTENANCE.
- PROVIDE POINT-OF-USE PLASTER TRAP TO THE SIDE OF THE SINK TO MAINTAIN ADA CLEARANCES AND IN AN ACCESSIBLE LOCATION FOR MAINTENANCE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL.
- 3/4" CW DOWN THROUGH FLOOR TO WALL HYDRANT.
- GENERAL NOTES:
  1. REFER TO P100A FOR GENERAL NOTES.

See the project number 2314704 for Conformed Construction Documents.

1/8" = 1'-0"
PLUMBING PLAN - LEVEL 1 - AREA B

CONNECT TO THE EXISTING COLD WATER, HOT WATER, AND VENT PIPING. VERIFY THE EXACT LOCATIONS IN THE FIELD.

GENERAL NOTES:
1. REFER TO P100A FOR GENERAL NOTES.
Power plan - level 1 - area A

1. Refer to E201 for general notes.

2. Here is a summary of the key points:

   a. Power and data for the AV system should be connected to existing mains in the walls.
   b. USB port and power provision should be made for future digital displays.
   c. AV station at teacher's desk/cabinet. Refer to AV one-line diagram for details and schedules.
   d. Door access control panel. Provide 36"x30"x6.5" NEMA enclosure. Refer to details and schedules.
   e. Provide power and low voltage for scoreboard. Coordinate height and location with architect.
   f. Provide power and low voltage for scoreboard. Route 1" conduit back to AV rack for speaker cabling.
   g. Provide power and low voltage for protection screen. Coordinate location and this architect expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting all requirements with provided projector screen.
   h. Provide intercom pushbutton and all cablings back to main head end and coordinate with existing intercom/public address system. Route cablings back to main head end and coordinate with existing intercom/public address system.
   i. Provide 1-1/4" conduit down to floor box for HDMI. Provide intercom pushbutton and all cablings back to main head end and coordinate with existing intercom/public address system.
   j. Provide 3/4" conduit back to AV for wireless mic antenna. Refer to AV one-line diagram for details and schedules.

3. Please consider the environment before printing this.
GENERAL NOTES:
REFER TO E200 FOR GENERAL NOTES.

PLAN NOTES
ELECTRICAL CONNECTION TO WALK-IN FREEZER
ACCESSORIES, COORDINATE WITH FOOD SERVICE PLANS.
ELECTRICAL CONNECTION TO WALK-IN COOLER ACCESSORIES,
COORDINATE WITH FOOD SERVICE PLANS.
RECEPTACLE MOUNTED IN CASE WORK FOR UNDER COUNTER
FRIDGE, COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR
EXACT LOCATION.

# Description Date
1 ADDENDUM #1 09-14-23
**TELECOMMUNICATIONS CABLES**

- **A.** Max four pair No. 22 AWG (or smaller) copper conductor data cable with polyvinyl chloride (PVC) or plenum rated jacketing.
- **B.** Max RG/U coaxial cable with fluorinated ethylene insulation and jacketing.
- **C.** Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/4 in. (6 mm).

---

**SPECIFIED TECHNOLOGIES INC - SpecSeal 100, 101, 102, 105, 120 or 129 Sealant, SpecSeal LCI Sealant, SpecSeal LC150**

**NOTE:**
- Bearing the UL Classification Mark

---

**REFERENCES**

1. REFER TO SPECIFICATIONS FOR FURTHER DETAILS.

2. FROM RACK TO ADJACENT WALL, ORIENTED QUANTITY AS REQUIRED.

3. OPTICAL FIBER PATCH PANEL.

4. AS SHOWN IN DETAIL.

5. TELECOMMUNICATIONS TWO-POST RACK.

---

**LABELING SCHEMES**

- **TYPICAL LABELING SCHEME**
  - (FOR HORIZONTAL COMPONENTS)
  - **TYPICAL CABLE TO WORK AREA DISTRIBUTION / CABLE DUCT**

---

**NOTES:**

- HORIZONTAL CABLE PLACING:
  - NEW TO EXISTING MDF ROOM.
  - OWNER PROVIDED GROUND BUS IN THE CONDUIT FROM THE NEW TO THE MAIN TELECOM CABLE TRUNK RACK.
  - REMOTE CLOSET BUS BAR
  - CONDUIT (CONTINUOUS GROUND).
  - CABLE TRAY (SEE DETAIL, THIS SHEET)
1. **NOTES:**
   - PROVIDE CONDUIT RACEWAY TO LOCATIONS PER ARCHITECT.
   - 3/4" CONDUIT WITH PULL ROPE (TYPICAL) TO ELEC/DATA A115 (WHERE REQUIRED).
   - CALL BOX 40".
   - ADA PUSH BUTTON.
   - CARD READER.
   - WIRELESS MIC.
   - WIRELESS MIC.
   - WIRELESS MIC.
   - WIRELESS MIC.

2. **DESIGN INTENT NARRATIVE:**
   - MUSIC AND GYM LOUD SPEAKERS WHEN LOCATIONS THAT WILL PLAY ON BOTH STAGE AND GYM ARE BEING USED FOR SPEAKERS IN GYM.
   - GYM ALSO WILL BE ABLE TO HAVE BLUETOOTH WILL PLAY ON LOUD SPEAKER ARRAY IN GYM.

3. **BUILDING SECURITY:**
   - EXIT SENSOR DEVICE ON DOOR DEVICES AND CABLING BY SECURITY CONTRACTOR - REFER TO ACCESS CONTROL AND SECURITY EQUIPMENT.

4. **POWER TRANSFER**
   - 6X6X4 JUNCTION BOX WITH WEATHER TIGHT CEILING INSTALLED IN 2"X4"X3" RECESSED BOX INTERIOR PLENUM ABOVE NEAREST ACCESSIBLE BACK OF BOX OR OUT TOP TO CEILING.
   - 3/4" CONDUIT WITH PULL ROPE (TYPICAL) TO ELEC/DATA A115 (WHERE REQUIRED).

5. **AUDIO/VIDEO EQUIPMENT:**
   - DIGITAL MIXING SYSTEM 1 INPUT 2:1 AUDIO MIXER 4:1 AUDIO MIXER POWER AMP POWER AMP POWER AMP NETWORK MATRIX CAT6 TO HDMI HDMI TO CAT6 ENCODER MIC RECEIVER MIC RECEIVER MIC RECEIVER MIC RECEIVERMIC RECEIVER HD PROJECTOR #1 DECODER DECODER DECODER DECODER DECODER LEA CONNECT 704#UA845UWB/LC) DISTRIBUTION ANTENNA OMNIDIRECTIONAL ANTENNA ANTENNA ANTENNA ANTENNA ANTENNA LEA CONNECT 1504#QLXD24 MIC RECEIVER MIC RECEIVER MIC RECEIVER MIC RECEIVER MIC RECEIVER SHURE #SM58 WIRELESS MIC WIRELESS MIC WIRELESS MIC WIRELESS MIC WIRELESS MIC SHURE #UA860SWB WIRELESS MIC WIRELESS MIC WIRELESS MIC WIRELESS MIC WIRELESS MIC LEA CONNECT 1504#QLXD24 MIC RECEIVER MIC RECEIVER MIC RECEIVER MIC RECEIVER MIC RECEIVER SHURE #SM58 WIRELESS MIC WIRELESS MIC WIRELESS MIC WIRELESS MIC WIRELESS MIC LEA CONNECT 1504#QLXD24 MIC RECEIVER MIC RECEIVER MIC RECEIVER MIC RECEIVER MIC RECEIVER SHURE #SM58 WIRELESS MIC WIRELESS MIC WIRELESS MIC WIRELESS MIC WIRELESS MIC LEA CONNECT 1504#QLXD24 MIC RECEIVER MIC RECEIVER 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Please consider the environment before printing this.

PROVIDE NFPA 13 COMPLIANT SPRINKLER SYSTEM FOR THE ADDITION.
CAREFULLY COORDINATE ALL SPRINKLER HEAD TYPES, COLOR, AND EXPOSED PIPING LOCATIONS WITH ARCHITECT FOR DESIRED AESTHETICS OF THE SPACES PRIOR TO INSTALLATION.
REFER TO ARCHITECTURAL RCP LAYOUT FOR CEILING TYPES AND SPACES OPEN TO STRUCTURE.
GYP. CEILINGS REQUIRE CONCEALED HEADS WITH COVER. WHITE COLOR FOR WHITE CEILINGS. PROVIDE CUSTOM COLOR BY ARCHITECT.
WOOD AND OTHER SPECIALTY CEILINGS SHALL USE CONCEALED HEADS WITH CUSTOM FINISH BY ARCHITECT.
ACT CEILINGS PROVIDE SEMI-RECESSED PENDANT HEADS.
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
CAREFULLY COORDINATE PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES AND DESIRED CEILING HEIGHTS.
COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
PROVIDE ICC 500 PROTECTION SHROUD FOR ALL PENETRATIONS OF THE ICC 500 SHELTER WALLS.

1. PROVIDE SPRINKLER SYSTEM FOR BUILDING ADDITION PER NFPA 13 REQUIREMENTS. PROVIDE ALL NECESSARY ACCESSORIES AND REQUIREMENTS FOR NEW ZONE. CONNECT TO THE EXISTING FIRE PROTECTION SYSTEM.
2. MODIFY THE EXISTING SPRINKLER SYSTEM AS REQUIRED TO ACCOMMODATE ROOM AND CEILING CHANGES.
3. EXISTING CEILINGS ARE BEING REPLACED. UNINSTALL THE EXISTING CEILING-MOUNTED SPRINKLER HEADS AND REINSTALL IN NEW CEILINGS. MODIFY THE EXISTING SPRINKLER SYSTEM AS REQUIRED TO ACCOMMODATE ROOM AND CEILING CHANGES.

SCALE
3/32" = 1'-0"