SOUTH VALLEY MIDDLE SCHOOL

STORM SHELTER ADDITION

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INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

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OVERALL MECHANICAL AND ELECTRICAL ROOF PLAN

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MECHANICAL AND ELECTRICAL SCHEDULES

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MECHANICAL AND ELECTRICAL DETAILS

MECHANICAL AND ELECTRICAL DETAILS

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SIGNAGE & ENVIRONMENTAL GRAPHICS FLOOR PLAN - AREA

LIBERTY PUBLIC SCHOOLS

1000 Midjay Dr, Liberty, MO 64068

CONFORMED CONSTRUCTION DOCUMENTS



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115 Wilcox Street Suite 21

Bob D Campbell

State Certificate of Authority #00044 Kansas City, MO 641 816.531.4144 phone Mechanical. Electrical. & Plumbino

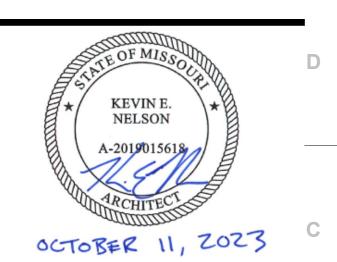
State Certificate of Authorit

AV/Acoustics Consultan 14827 West 95th St. Lenexa, KS 66215

CONFORMED CONSTRUCTIC DOCUMENTS

REVISIONS:

Description



Kevin E. Nelson A-2019015618

Professional Architects seal affixed to this sheet applies only to the material and items shown on this sheet ngs, instruments or other documents not exhibiting this seal shall not be considered prepared by this arch his architect expressly disclaims any and all responsibility for such plan, drawings, or documents not exhib this seal.

JOB NO: 23019 DRAWN BY: ES DATE: 08.31.2023

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Please consider the environment before printing this.

ALTERNATE: ALTERNATE INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND APPURTENENANCES

NECESSARY TO REPLACE ALL EXISTING CEILING TILE (GRIDS TO REMAIN). REFER TO SHEETS DA101 AND

ALTERNATES

VICINITY MAP

ALTERNATE 1:

BASE BID: NO WORK

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ELECTRICAL SCHEDULES AND DETAILS

ELECTRICAL SCHEDULES AND DETAILS

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FP101 OVERALL FIRE PROTECTION PLAN - LEVEL 1

THEATRICAL RISER DIAGRAM

| | | • | | |
|---|--|--|---|--|
| | | | | PROJECT INFORMATION |
| | | | | PROJECT NUMBER 23018 PROJECT NAME South Valley Middle School Addition |
| | | | | OWNER Liberty School District 1000 Midjay Dr |
| | | | | Liberty, MO 64068 AUTHORITY HAVING JURISDICTION City of Liberty, MO Planning & Development |
| | | | | 101 E. Kansas Street Liberty, MO 64068 |
| | | | | RESPONDING FIRE SERVICE City of Liberty Fire Department ANTICIPATED OCCUPANCY April/May , 2025 |
| | | | | ADOPTED CODES AND ORDINANCES 2018 International Building Code 2018 International Existing Building Code |
| | | | | 2017 National Electric Code (NFPA 70) 2018 International Mechanical Code 2018 International Plumbing Code |
| | | | | 2012 International Energy Conservation Code 2009 ICC A117.1 Accessible and Usable Buildings and Facilities 2016 ASME A17.1 Safety Code for Elevators and Escalators |
| | | DI DO O EVICTINO NO MODIC | | 2014 ICC 500 Standard on Design and Construction of Storm Shelters Amendments |
| | BLDG 4 - ADDITION TO EXISTING STRUCTURE BUILDING INFORMATION | BUILDING INFORMATION | BLDG 2 - ADDITION TO EXISTING STRUCTURE BUILDING INFORMATION | BUILDING INFORMATION |
| | OCCUPANCY CLASSIFICATION: Educational, Group E (305.1) | OCCUPANCY CLASSIFICATION: Educational, Group E (305.1) | OCCUPANCY CLASSIFICATION: Assembly, Group A-4 (303.5) | OCCUPANCY CLASSIFICATION: Assembly, Group A-4 (303.5) |
| | CONSTRUCTION TYPE: II-B (602.2, Non-combustible, non-protected) BUILDING HEIGHT: | CONSTRUCTION TYPE: II-B (602.2, Non-combustible, non-protected) BUILDING HEIGHT: | CONSTRUCTION TYPE: II-B (602.2, Non-combustible, non-protected) | CONSTRUCTION TYPE: II-B (602.2, Non-combustible, non-protected) Addition to existing structure |
| | Allowable Height (Table 504.3): 75' above grade plane Building Height: 20' Allowable Stories (Table 504.4): 3 stories above grade plane | Allowable Height (Table 504.3): Building Height: Allowable Stories (Table 504.4): 75' above grade plane 20' Allowable Stories (Table 504.4): 3 stories above grade plane | BUILDING HEIGHT: 75' above grade plane Allowable Height (Table 504.3): 32' Building Height: 3 stories above grade plane | BUILDING HEIGHT: Allowable Height (Table 504.3): 75' above grade plane Building Height: 34' |
| | Building Stories: 1 BUILDING AREA: | Building Stories: 1 BUILDING AREA: | Allowable Stories (Table 504.4): Building Stories: | Allowable Stories (Table 504.4): 3 stories above grade plane Building Stories: 1 |
| | Sprinkler qualifier (Table 506.2): Allowable Area S1: Building one story max. above grade plane with automatic sprinkler system 59,595 sq ft Building Area Existing: 37,144 + New: 1,250 = Total: 38,394 sq ft | Sprinkler qualifier (Table 506.2): Allowable Area S1: Building one story max. above grade plane with automatic sprinkler system 58000 Building Area 57036 | BUILDING AREA: Sprinkler qualifier (Table 506.2): S1: Building one story max. above grade plane with automatic sprinkler system Allowable Area 40755 sq ft | BUILDING AREA: Sprinkler qualifier (Table 506.2): S1: Building one story max. above grade plane with automatic sprinkler system Allowable Area 38000 |
| | OCCUPANCY SEPARATION: No separation requirement (Table 508.4) | OCCUPANCY SEPARATION: No separation requirement (Table 508.4) | Building Area Existing: 24,900 + New: 960 = Total: 25,860 sq ft OCCUPANCY SEPARATION: No separation requirement (Table 508.4) | Building Area 10000 OCCUPANCY SEPARATION: No separation requirement (Table 508.4) |
| | INCIDENTAL USE SEPARATION: No separation requirement (509.3) FIRE RESISTANCE RATINGS: (Per Table 601, 602) | INCIDENTAL USE SEPARATION: No separation requirement (509.3) FIRE RESISTANCE RATINGS: (Per Table 601, 602) | INCIDENTAL USE SEPARATION: No separation requirement (509.3) | INCIDENTAL USE SEPARATION: No separation requirement (509.3) |
| | Primary Structural Frame: O-Hour fire-resistance rating Exterior Bearing Walls: O-Hour fire-resistance rating | Primary Structural Frame: 0-Hour fire-resistance rating Exterior Bearing Walls: 0-Hour fire-resistance rating | FIRE RESISTANCE RATINGS: (Per Table 601, 602) Primary Structural Frame: 1-Hour fire-resistance rating | FIRE RESISTANCE RATINGS: (Per Table 601, 602) Primary Structural Frame: 0-Hour fire-resistance rating |
| | Interior Bearing Walls: Exterior Nonbearing Walls: O-Hour fire-resistance rating Interior Nonbearing Walls: O-Hour fire-resistance rating Floor Construction / Secondary Members: O-Hour fire-resistance rating | Interior Bearing Walls: Exterior Nonbearing Walls: O-Hour fire-resistance rating Interior Nonbearing Walls: O-Hour fire-resistance rating O-Hour fire-resistance rating Floor Construction / Secondary Members: O-Hour fire-resistance rating | Exterior Bearing Walls: Interior Bearing Walls: 1-Hour fire-resistance rating Exterior Nonbearing Walls: 1-Hour fire-resistance rating Interior Nonbearing Walls: 1-Hour fire-resistance rating | Exterior Bearing Walls: Interior Bearing Walls: O-Hour fire-resistance rating Exterior Nonbearing Walls: O-Hour fire-resistance rating Interior Nonbearing Walls: O-Hour fire-resistance rating |
| | Floor Construction / Secondary Members: Roof Construction / Secondary Members: 0-Hour fire-resistance rating No fire walls | Floor Construction / Secondary Members: Roof Construction / Secondary Members: 0-Hour fire-resistance rating 0-Hour fire-resistance rating | Interior Nonbearing Walls: Floor Construction / Secondary Members: Roof Construction / Secondary Members: 1-Hour fire-resistance rating 1-Hour fire-resistance rating | Interior Nonbearing Walls: Floor Construction / Secondary Members: Roof Construction / Secondary Members: O-Hour fire-resistance rating O-Hour fire-resistance rating |
| | Fire Walls No fire walls Fire Barriers Existing: 2-Hour shafts, exit enclosures and passageway walls (Section 707) | Fire Walls No fire walls Fire Barriers Existing: 2-Hour shafts, evit enclosures and passageway walls (Section 707) | Fire Walls 2-Hour (Table 706.4) 90 Minute door with 90 Minute glazing (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3)) | Fire Walls 2-Hour (Table 706.4) 90 Minute door with 90 Minute glazing (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3)) |
| | 2-Hour shafts, exit enclosures and passageway walls (Section 707) 90 Minute door with 90 Minute glazing, 100 or 1,296 sq in max (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3)) | 2-Hour shafts, exit enclosures and passageway walls (Section 707) 90 Minute door with 90 Minute glazing, 100 or 1,296 sq in max (Table 716.1(2)) No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3)) | Fire Barriers Existing: 2-Hour shafts, exit enclosures and passageway walls (Section 707) 90 Minute door with 90 Minute glazing, 100 or 1,296 sq in max (Table 716.1(2)) | Fire Barriers No fire barriers Fire Partitions No fire partitions |
| | Fire Partitions No fire partitions Smoke Barriers / Partitions Existing: | Fire Partitions No fire partitions Smoke Barriers / Partitions Existing: | No Windows Permitted except those meeting ASTM E119 or UL 263 (Table 716.1(3)) Fire Partitions No fire partitions | Smoke Barriers / Partitions No smoke barriers / partitions |
| | 1-Hour rated wall assembly (709) 20 Minute door with 20 Minute Glazing (Table 716.1(2)) 45 Minute Glazing at door sidelights and transoms (Table 716.1(2)) | 1-Hour rated wall assembly (709) 20 Minute door with 20 Minute Glazing (Table 716.1(2)) 45 Minute Glazing at door sidelights and transoms (Table 716.1(2)) | Smoke Barriers / Partitions Existing: 1-Hour rated wall assembly (709) | Shafts No shaft enclosures |
| | 45 Minute Fire Windows (Table 716.1(3)) Shafts No shaft enclosures | 45 Minute Fire Windows (Table 716.1(3)) Shafts No shaft enclosures | 20 Minute door with 20 Minute Glazing (Table 716.1(2)) 45 Minute Glazing at door sidelights and transoms (Table 716.1(2)) 45 Minute Fire Windows (Table 716.1(3)) | |
| | STIGUTE THE STIGUTE ST | onalic shall sholosures | Shafts No shaft enclosures | |
| | | | | |
| | BLDG 4 - ADDITION TO EXISTING STRUCTURE | BLDG 3 - EXISTING - NO WORK | BLDG 2 - ADDITION TO EXISTING STRUCTURE | BLDG 1 - ADDITION |
| | EGRESS COMPONENTS NUMBER OF EXITS: 2 per space greater than 49 occupants (Table 1006.2.1) | EGRESS COMPONENTS NUMBER OF EXITS: 2 per space greater than 49 occupants (Table 1006.2.1) | EGRESS COMPONENTS NUMBER OF EXITS: 2 per space greater than 49 occupants (Table 1006.2.1) | EGRESS COMPONENTS NUMBER OF EXITS: 2 per space greater than 49 occupants (Table 1006.2.1) |
| | 3 per space with load 501 to 1,000; 4 per space over 1,000 DEAD-END CORRIDORS: 50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U | 3 per space with load 501 to 1,000; 4 per space over 1,000 DEAD-END CORRIDORS: 50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U | 3 per space with load 501 to 1,000; 4 per space over 1,000 DEAD-END CORRIDORS: 50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U | 3 per space with load 501 to 1,000; 4 per space over 1,000 DEAD-END CORRIDORS: 50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U |
| | (1020.4, Exception 2) COMMON PATH OF TRAVEL: 75' (Table 1006.2.1) | (1020.4, Exception 2) COMMON PATH OF TRAVEL: 75' (Table 1006.2.1) | (1020.4, Exception 2) COMMON PATH OF TRAVEL: 75' (Table 1006.2.1) | (1020.4, Exception 2) COMMON PATH OF TRAVEL: 75' (Table 1006.2.1) |
| | TRAVEL DISTANCE TO EXIT: 250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2) | TRAVEL DISTANCE TO EXIT: 250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2) | TRAVEL DISTANCE TO EXIT: 250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2) | TRAVEL DISTANCE TO EXIT: 250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2) |
| | CORRIDOR CONSTRUCTION: 0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1) 44" minimum corridor width (Table 1020.2) 72" minimum for Group E corridor with required capacity of 100 or more (Table 1020.2) | CORRIDOR CONSTRUCTION: 0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1) CORRIDOR WIDTH: 44" minimum corridor width (Table 1020.2) 72" minimum for Group E corridor with required capacity of 100 or more (Table 1020.2) | CORRIDOR CONSTRUCTION: 0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1) CORRIDOR WIDTH: 44" minimum corridor width (Table 1020.2) | CORRIDOR CONSTRUCTION: 0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1) CORRIDOR WIDTH: 44" minimum corridor width (Table 1020.2) |
| | MEANS OF EGRESS CAPACITY: 0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg) | MEANS OF EGRESS CAPACITY: 0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg) | MEANS OF EGRESS CAPACITY: 0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg) | MEANS OF EGRESS CAPACITY: 0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg) |
| | | | | |
| | BLDG 4 - ADDITION TO EXISTING STRUCTURE | BLDG 3 - EXISTING - NO WORK | BLDG 2 - ADDITION TO EXISTING STRUCTURE | BLDG 1 - ADDITION |
| | FIRE SAFETY FEATURES | FIRE SAFETY FEATURES | FIRE SAFETY FEATURES | FIRE SAFETY FEATURES |
| | SPRINKLER: Automatic sprinkler system provided throughout Sprinkler installed per NFPA 13 (903.3.1.1) FIRE ALARM SIGNALING: Existing System | SPRINKLER: Automatic sprinkler system provided throughout Sprinkler installed per NFPA 13 (903.3.1.1) FIRE ALARM SIGNALING: Existing System | SPRINKLER: Automatic sprinkler system provided throughout Sprinkler installed per NFPA 13 (903.3.1.1) FIRE ALARM SIGNALING: Existing System | SPRINKLER: Automatic sprinkler system provided throughout Sprinkler installed per NFPA 13 (903.3.1.1) FIRE ALARM SIGNALING: Connect to Existing System |
| | EMERGENCY LIGHTING / POWER: Existing System SMOKE CONTROL SYSTEM: Existing System | FIRE ALARM SIGNALING: Existing System EMERGENCY LIGHTING / POWER: Existing System SMOKE CONTROL SYSTEM: Existing System | EMERGENCY LIGHTING / POWER: Existing System SMOKE CONTROL SYSTEM: Existing System | EMERGENCY LIGHTING / POWER: Conneect to Existing System SMOKE CONTROL SYSTEM: Conneect to Existing System |
| | | | | |
| | | | | |
| | BLDG 4 - ADDITION TO EXISTING STRUCTURE | BLDG 3 - EXISTING - NO WORK | BLDG 2 - ADDITION TO EXISTING STRUCTURE | BLDG 1 - ADDITION |
| | PLUMBING FIXTURES | PLUMBING FIXTURES | PLUMBING FIXTURES | PLUMBING FIXTURES |
| | Water Closets (Male): Water Closets (Female): E: 1 per 50 - Existing to Remain E: 1 per 50 - Existing to Remain Lavatories (Male): E: 1 per 50 - Existing to Remain | Water Closets (Male): Water Closets (Female): E: 1 per 50 - Existing to Remain E: 1 per 50 - Existing to Remain Lavatories (Male): E: 1 per 50 - Existing to Remain | Water Closets (Male): Water Closets (Female): A-4: 1 per 125 A-4: 1 per 65 Lavatories (Male): A-4: 1 per 200 | Water Closets (Male): Water Closets (Female): A-4: 1 per 125 A-4: 1 per 65 Lavatories (Male): A-4: 1 per 200 |
| | Lavatories (Female): E: 1 per 50 - Existing to Remain Drinking Fountains: E: 1 per 50 - Existing to Remain E: 1 per 50 - Existing to Remain Service Sink: Existing to Remain | Lavatories (Female): E: 1 per 50 - Existing to Remain Drinking Fountains: E: 1 per 50 - Existing to Remain Drinking Fountains: E: 1 per 50 - Existing to Remain Service Sink: Existing to Remain | Lavatories (Female): A-4: 1 per 200 Drinking Fountains: A-4: 1 per 200 Service Sink: A-4: 1 per 500 Service Sink: 1 Service Sink | Lavatories (Female): A-4: 1 per 200 Drinking Fountains: A-4: 1 per 500 Service Sink: 1 Service Sink |
| | _many or roman | | . 55.1155 SX | . 55.1.50 OHIN |
| | | | | DLDC 4 ADDITION |
| | | | | BUILDING AREA CALCULATIONS |
| | BLDG 4 - ADDITION TO EXISTING STRUCTURE BUILDING AREA CALCULATIONS | | BUILDING AREA CALCULATIONS | 506.2 . Allowable Area Determination: Equation 5-2 |
| | 506.2 . Allowable Area Determination: Equation 5-2 | | 506.2 . Allowable Area Determination: Equation 5-2 | Aa = [At + (NS x lf)] x Sa where: Aa = Allowable area (square feet, typ.) At = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 At = 38000 |
| | Aa = [At + (NS x lf)] x Sa where: Aa = Allowable area (square feet, typ.) | | Aa = [At + (NS x lf)] x Sa where: Aa = Allowable area (square feet, typ.) | NS = Tabular allowable area factor per Table 506.2 (regardless of whether building is sprinklered) NS = Tabular allowable area factor per Table 506.2 (regardless of whether building is sprinklered) NS = 9500 If = 0.75 Sa = Actual number of stories above grade plane: not to exceed 3 (4 if building is fully sprinklered). Sa = 1 |
| | At = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 NS = Tabular allowable area factor per Table 506.2 (regardless of whether building is sprinklered) NS = 14500 If = Area factor increase due to frontage(percent) per Section 506.3 Sa = Actual number of stories above grade plane: not to exeed 3 (4 if building is fully sprinklered). Sa = 1 | | At = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 At = 38000 NS = Tabular allowable area factor per Table 506.2 (regardless of whether building is sprinklered) NS = 9500 If = Area factor increase due to frontage(percent) per Section 506.3 If = 0.29 Sa = Actual number of stories above grade plane: not to exeed 3 (4 if building is fully sprinklered). Sa = 1 | Aa = 45125 sq ft |
| | Sa = Actual number of stories above grade plane: not to exeed 3 (4 if building is fully sprinklered). Sa = 1 Aa = 59595 sq ft | | Sa = Actual number of stories above grade plane: not to exeed 3 (4 if building is fully sprinklered). Sa = 1 Aa = 40755 sq ft | 506.3 . Frontage Increase: Per Equation 5-5: |
| | 506.3 . Frontage Increase: Per Equation 5-5: | | 506.3 . Frontage Increase: Per Equation 5-5: | If = $[F/P - 0.25]$ W/30 where: If = Area increase due to frontage F = Building perimeter that fronts a public way or open space having 20 feet open minimum width F = 2027 |
| | If = [F/P – 0.25] W/30 where: If = Area increase due to frontage F = Building perimeter that fronts a public way or open space having 20 feet open minimum width F = 476 | | If = [F/P – 0.25] W/30 where: If = Area increase due to frontage F = Building perimeter that fronts a public way or open space having 20 feet open minimum width F = 399 | P = Perimeter of entire building (feet) W = Width of public way of open space (feet) – min. 20' to be allowed, use 30' max. P = 2027 W = 30 |
| | P = Building perimeter that from a public way of open space flaving 20 feet open minimum width P = 476 P = Perimeter of entire building (feet) P = 1329 W = Width of public way of open space (feet) – min. 20' to be allowed, use 30' max. W = 30 | | P = Building perimeter that from a public way of open space having 20 feet open minimum width P = 399 P = Perimeter of entire building (feet) P = 740 W = Width of public way of open space (feet) – min. 20' to be allowed, use 30' max. W = 30 | If = 0.75 |
| | lf = 0.11 | | If = 0.29 | |
| | | | | |
| 4 | | 8 9 10 11 | 12 13 14 15 | 16 |
| | | | 12 13 14 15 | Please consider the environment before printing this. |
| | | | | The least consider the environment before printing this. |

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Hollis + Miller Architects Missouri State Certificate of Authority Architecture # 0000161

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25618 W 103rd Street Olathe, KS 66061 913.345.2127 phone MKEC Engineering, Inc. Civil Engineer State Certificate of Authority Engineering #2001009364

Landscaping #2006027139 Surveying #2006027138 11827 W 112th Street, Suite 200 Overland Park, KS 66210 913.317.9390 phone Peerbolte Creative Theatrical Consultant 109 E Pine St. Warrensburg, MO 64093-0752 660.429.1383 phone **Avant Acoustics**

AV/Acoustics Consultant 14827 West 95th St. Lenexa, KS 66215 913.888.9111 phone

JOB NO: 23019

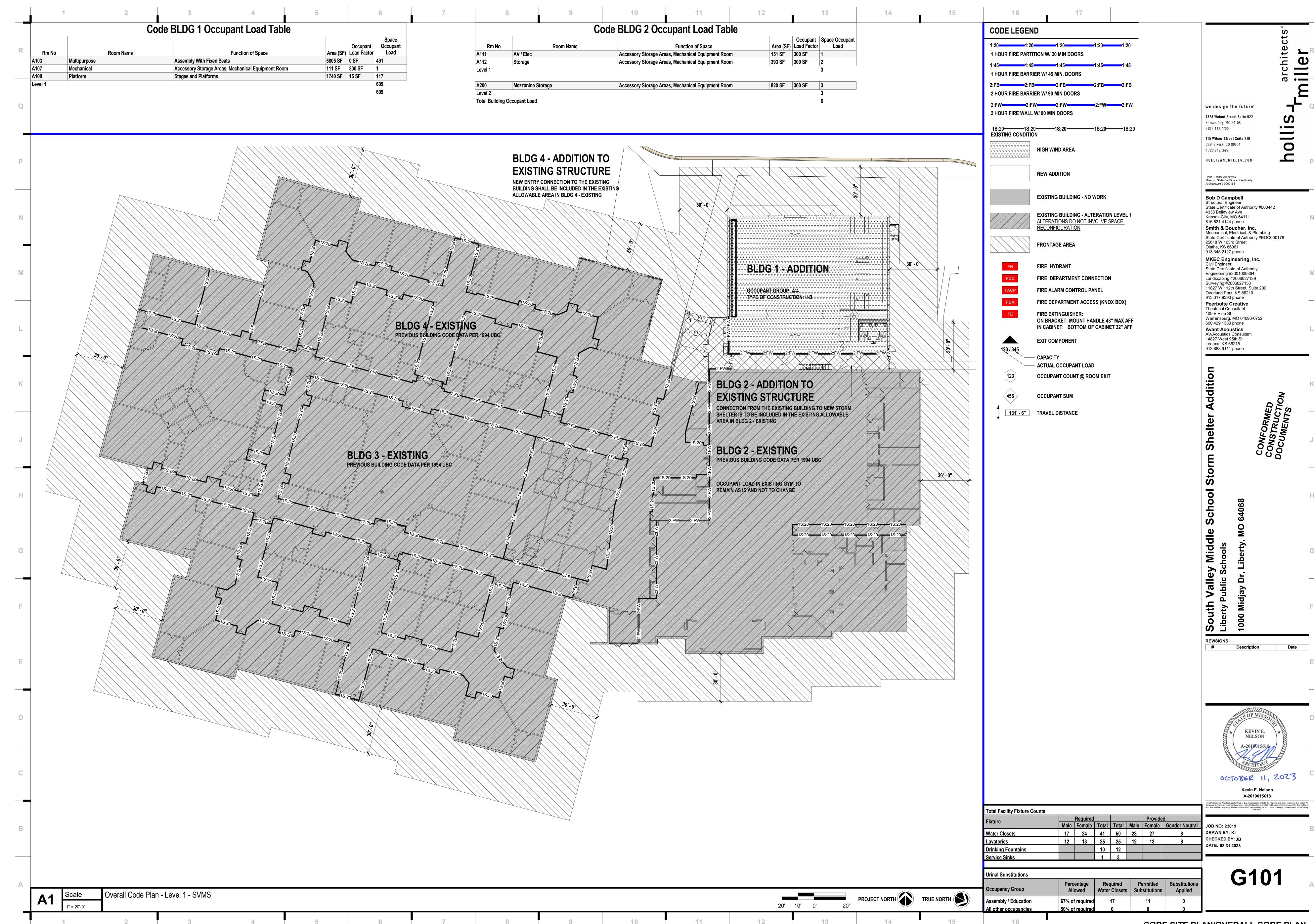
DRAWN BY: KL

Kevin E. Nelson A-2019015618

REVISIONS:

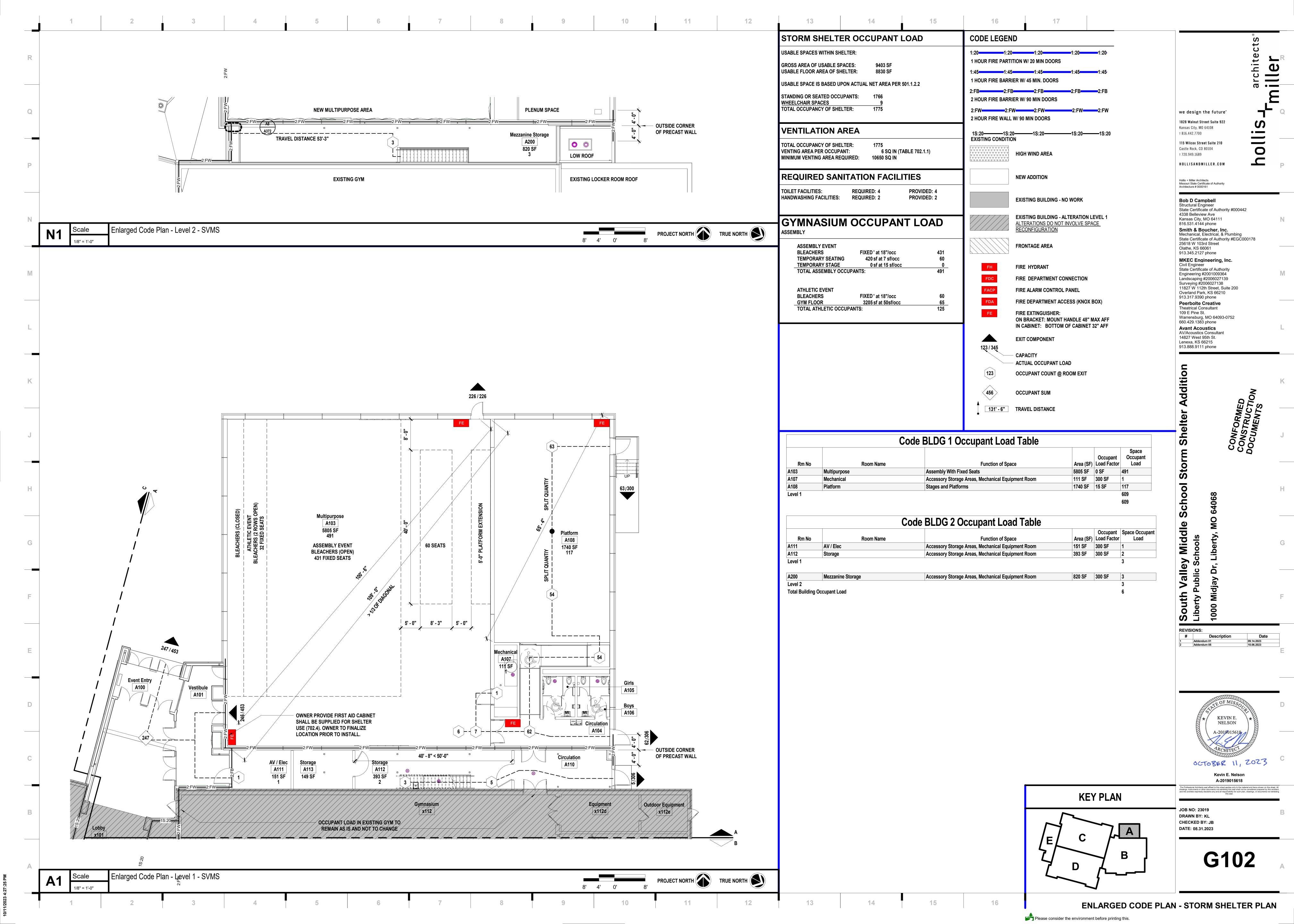
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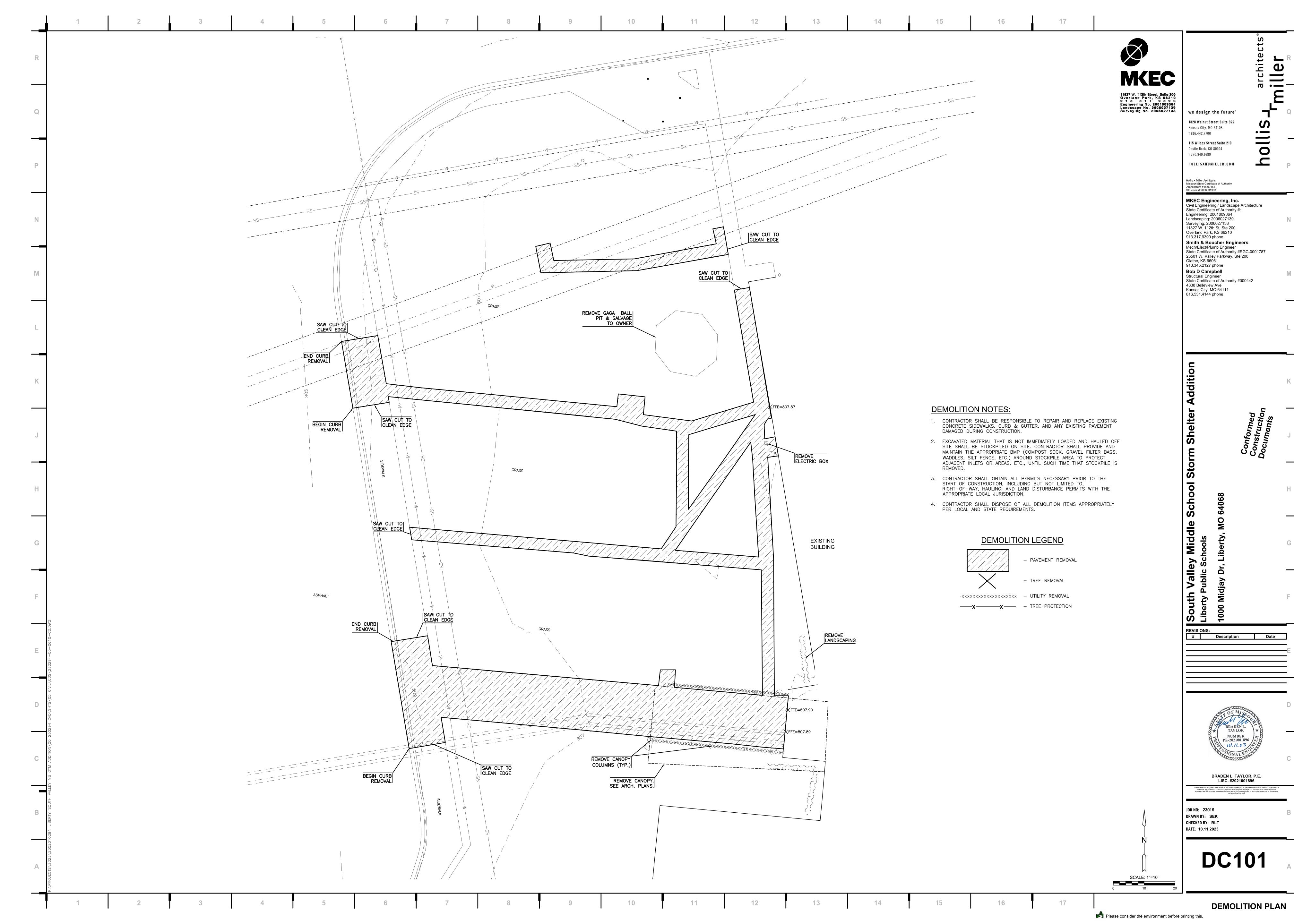
CHECKED BY: JB DATE: 08.31.2023

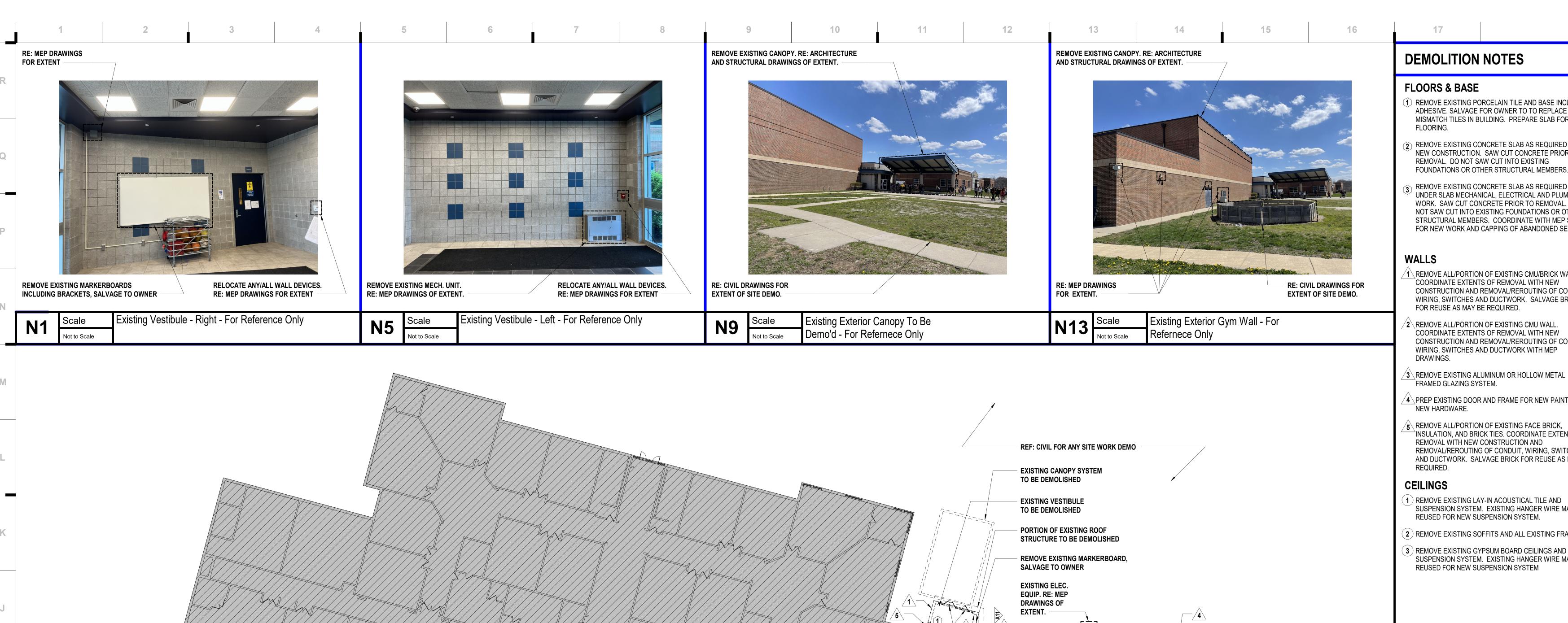


CODE SITE PLAN/OVERALL CODE PLAN

Please consider the environment before printing this.







DEMOLITION NOTES

- 1) REMOVE EXISTING PORCELAIN TILE AND BASE INCLUDING ADHESIVE. SALVAGE FOR OWNER TO TO REPLACE MISMATCH TILES IN BUILDING. PREPARE SLAB FOR NEW
- REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING
- REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR UNDER SLAB MECHANICAL, ELECTRICAL AND PLUMBING WORK. SAW CUT CONCRETE PRIOR TO REMOVAL. DO NOT SAW CUT INTO EXISTING FOUNDATIONS OR OTHER STRUCTURAL MEMBERS. COORDINATE WITH MEP SHEETS FOR NEW WORK AND CAPPING OF ABANDONED SERVICES
- \ REMOVE ALL/PORTION OF EXISTING CMU/BRICK WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT WIRING, SWITCHES AND DUCTWORK. SALVAGE BRICK FOR REUSE AS MAY BE REQUIRED.
- ${f /2}ackslash$ REMOVE ALL/PORTION OF EXISTING CMU WALL. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK WITH MEP
- 3 REMOVE EXISTING ALUMINUM OR HOLLOW METAL FRAMED GLAZING SYSTEM.
- 4\PREP EXISTING DOOR AND FRAME FOR NEW PAINT AND NEW HARDWARE.
- REMOVE ALL/PORTION OF EXISTING FACE BRICK, $^{
 m ullet}$ INSULATION, AND BRICK TIES. COORDINATE EXTENTS OF REMOVAL WITH NEW CONSTRUCTION AND REMOVAL/REROUTING OF CONDUIT, WIRING, SWITCHES AND DUCTWORK. SALVAGE BRICK FOR REUSE AS MAY BE
- 1) REMOVE EXISTING LAY-IN ACOUSTICAL TILE AND SUSPENSION SYSTEM. EXISTING HANGER WIRE MAY BE REUSED FOR NEW SUSPENSION SYSTEM.
- (2) REMOVE EXISTING SOFFITS AND ALL EXISTING FRAMING.
- 3) REMOVE EXISTING GYPSUM BOARD CEILINGS AND SUSPENSION SYSTEM. EXISTING HANGER WIRE MAY BE REUSED FOR NEW SUSPENSION SYSTEM

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•

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Lenexa, KS 66215 913.888.9111 phone

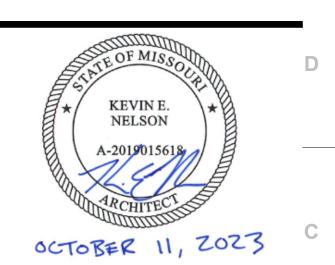
DEMOLITION LEGEND

ALTERNATE 1: EXISTING LAY-IN ACOUSTICAL TILE & SUSPENSION SYSTEM TO BE REMOVED. EXISTING HANGER WIRE MAY BE REUSED FOR **NEW SUSPENSION SYSTEM.**



GENERAL DEMOLITION NOTES

- DEMOLITION INCLUDES THE REMOVAL OF EXISTING CONSTRUCTION WHICH CONFLICTS WITH WORK TO BE BUILT/INSTALLED IN NEW CONSTRUCTION. TRANSITIONS BETWEEN DEMOLITION AND EXISTING TO REMAIN TO BE CAREFULLY COORDINATED
- DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE DEMOLISHED/REMOVED
- HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO
- EVERY DETAIL OF THE DEMOLITION WORK MAY NOT BE COVERED ON THESE DRAWINGS, BUT THE DEMOLITION CONTRACTOR SHALL COORDINATE WITH THE GC/CM TO ENSURE ALL REQUIRED ITEMS ARE REMOVED IN ORDER FOR NEW WORK TO BE COMPLETED
- IN AREAS SCHEDULED FOR DEMOLITION, ALL ACCESSORIES ATTACHED TO THE CEILINGS, FLOOR AND WALLS ARE TO BE REMOVED, INCLUDING BRACKETS, SCREWS, SIGNAGE, SURFACE MOUNTED ELECTRICAL AND TECHNOLOGY; REMOVE ALL WINDOW COVERINGS; MINI-BLINDS, ROLLER SHADES AND ALL BRACKETS
- THE OWNER WILL IDENTIFY ALL ITEMS TO BE SALVAGED PRIOR DEMOLITION STARTING. CONTRACTOR SHALL SALVAGE AND TURN OVER TO THE OWNER ALL EQUIPMENT IDENTIFIED. ALL REMAINING ITEMS SHALL BE REMOVED BY THE DEMOLITION
- CONTRACTOR DO NOT DISTURB SOIL UNDER EXISTING FOOTINGS AND/OR FLOOR SLABS NOTED TO REMAIN
- COORDINATE THE REMOVAL OF ALL/PORTIONS OF LOAD BEARING ELEMENTS WITH THE STRUCTURAL ENGINEER PRIOR TO REMOVAL. PROVIDE TEMPORARY SHORING AS REQUIRED
- REFER TO MEP DEMOLITION SHEETS FOR EXISTING MECHANICAL, ELECTRICAL AND PLUMBING TO BE REMOVED



Kevin E. Nelson

A-2019015618

JOB NO: 23019 DRAWN BY: KL CHECKED BY: JB DATE: 08.31.2023

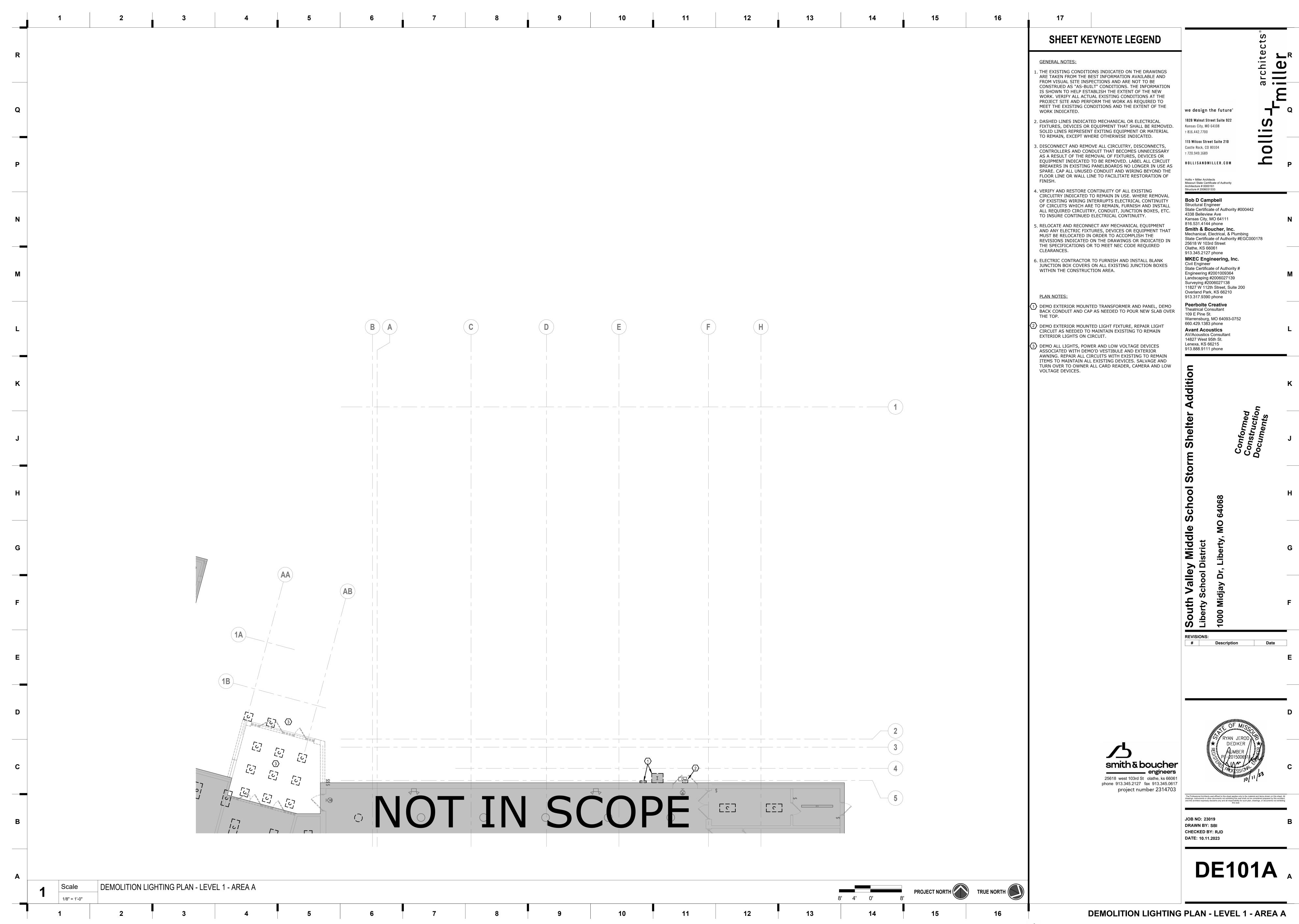
DA101

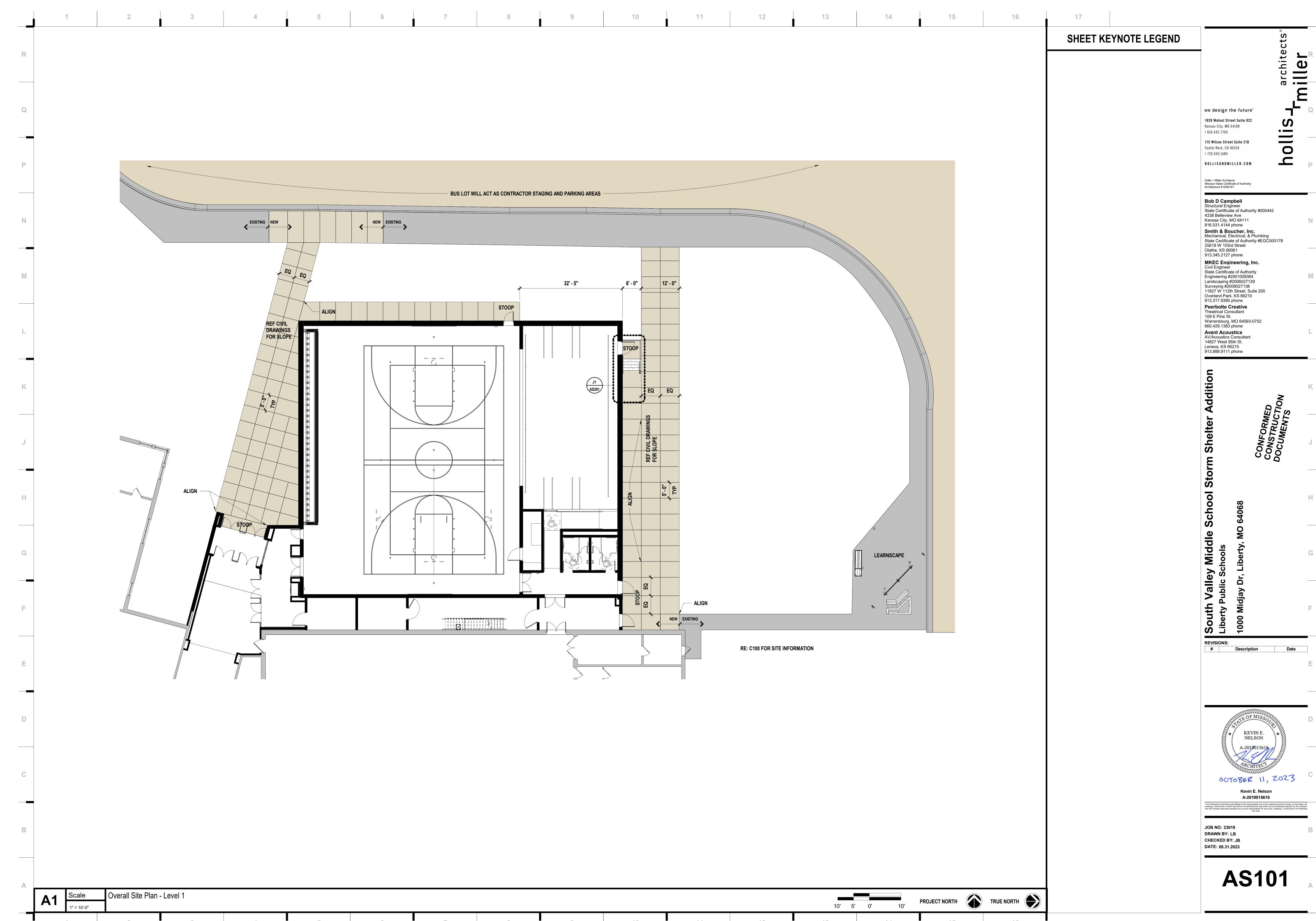
Overall Demolition Floor Plan - Level 1 1" = 20'-0"

PROJECT NORTH TRUE NORTH

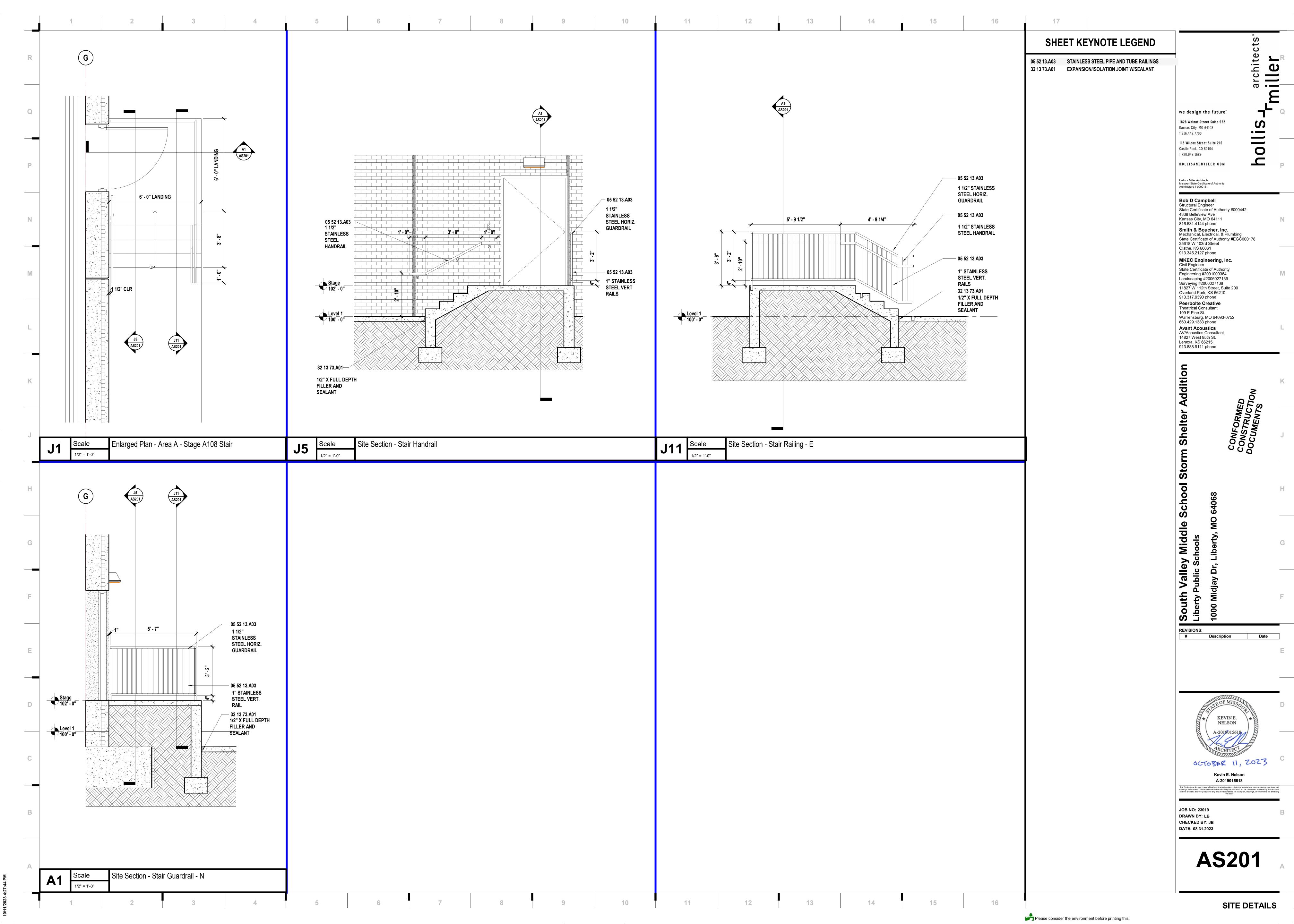
DEMOLITION FLOOR PLAN - OVERALL - LEVEL 1 Please consider the environment before printing this.

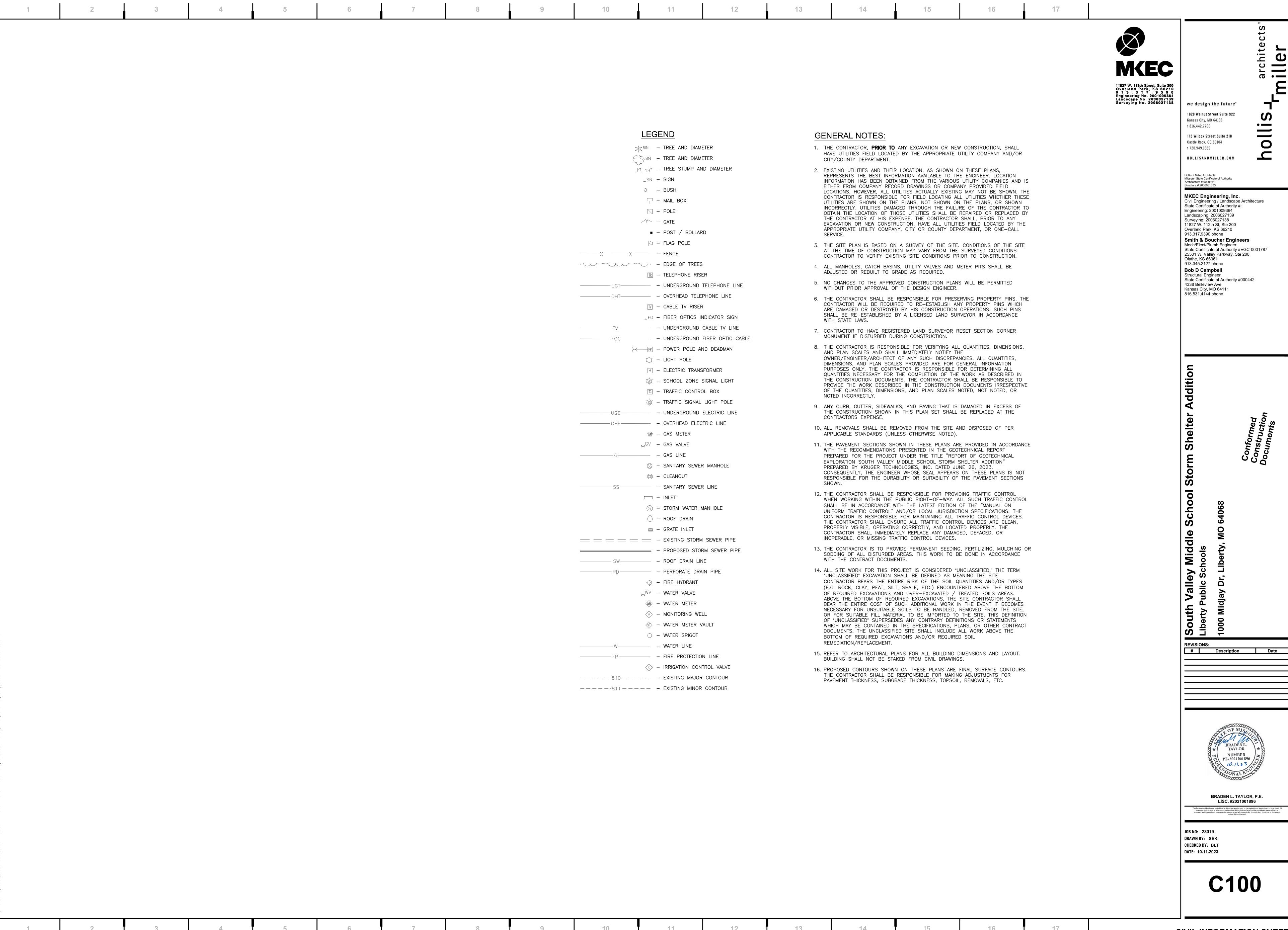
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ARCHITECTURAL SITE PLAN





CIVIL INFORMATION SHEET

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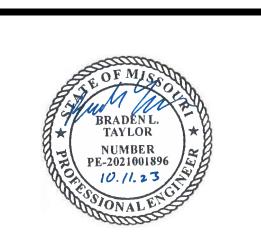
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Civil Engineering / Landscape Architecture
State Certificate of Authority #:
Engineering: 2001009364
Landscaping: 2006027139
Surveying: 2006027138
11827 W. 112th St, Ste 200
Overland Park, KS 66210
913.317.9390 phone

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Mech/Elect/Plumb Engineer
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Structural Engineer
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BRADEN L. TAYLOR, P.E. LISC. #2021001896

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JOB NO: 23019 DRAWN BY: SEK CHECKED BY: BLT DATE: 10.11.2023

SCALE: 1"=40'

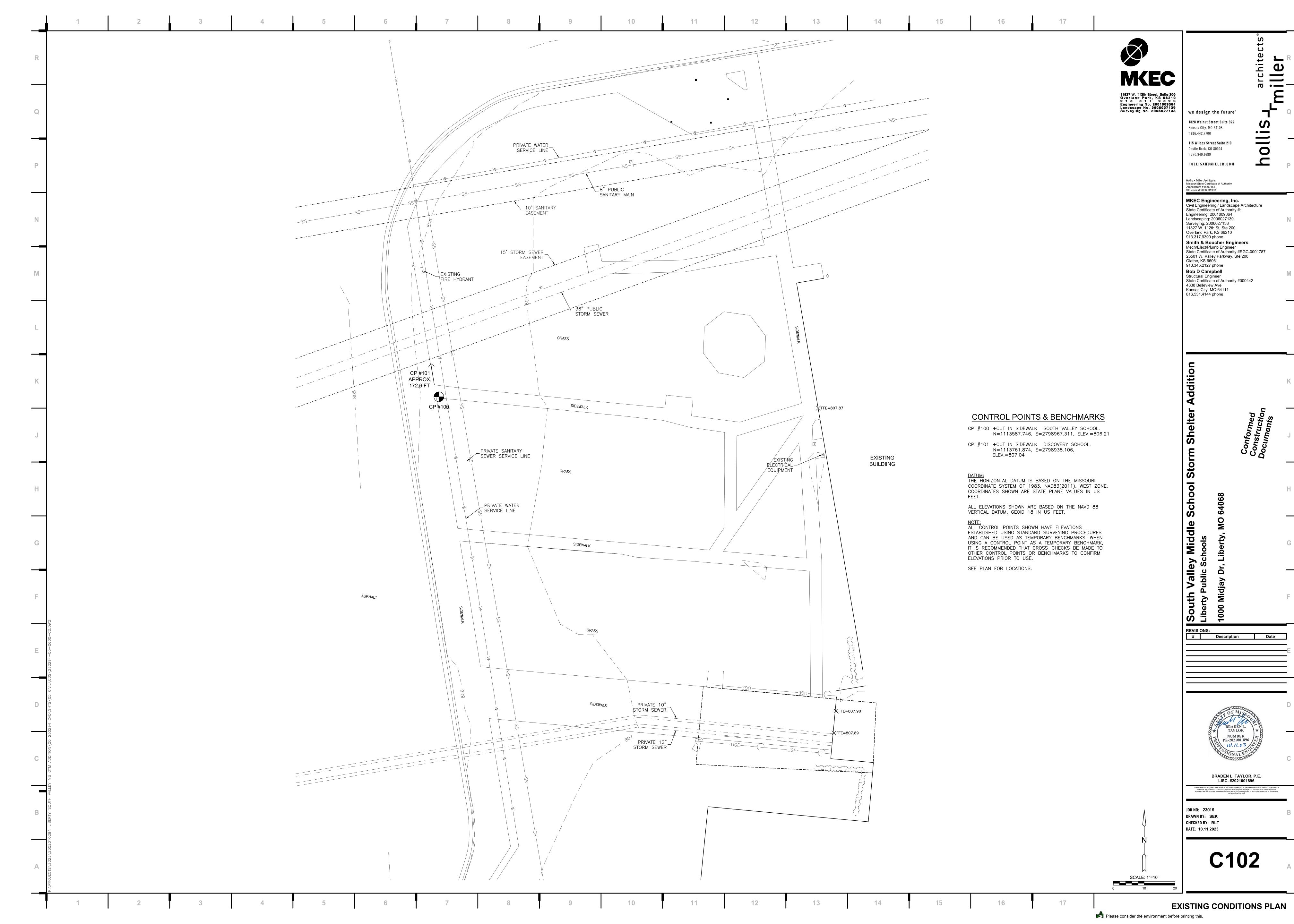
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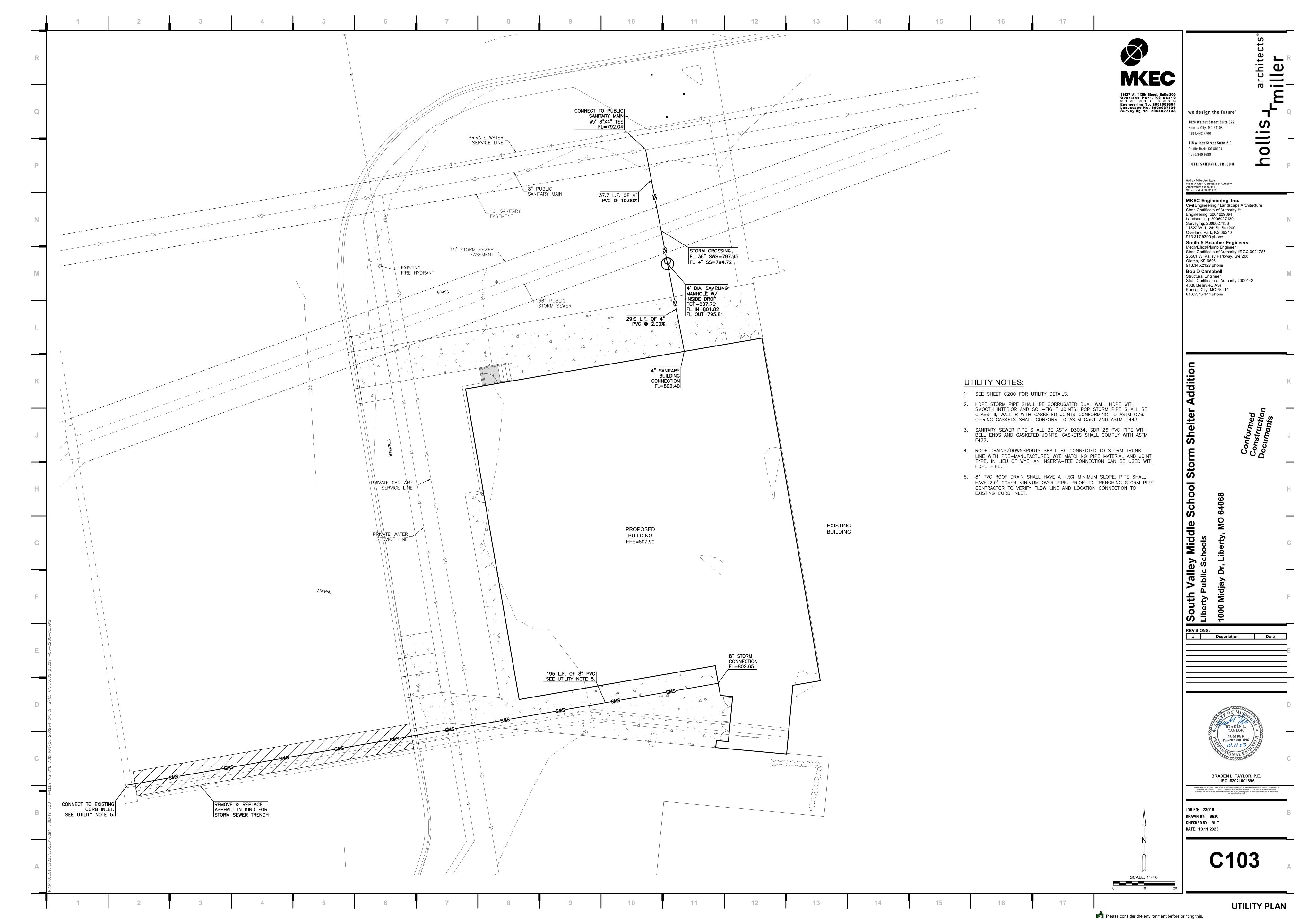
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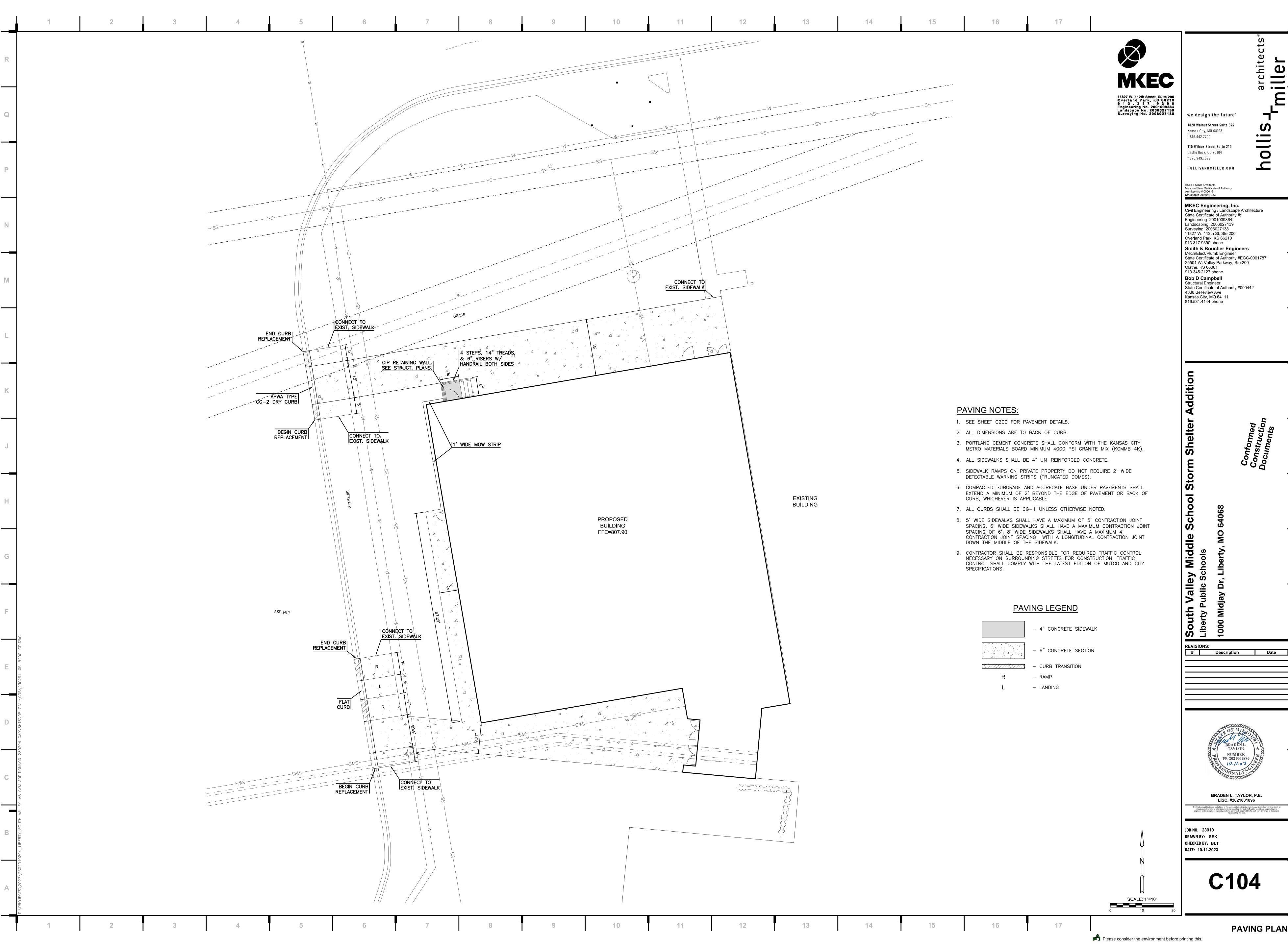
EXISTING BUILDING

PRIVATE DR

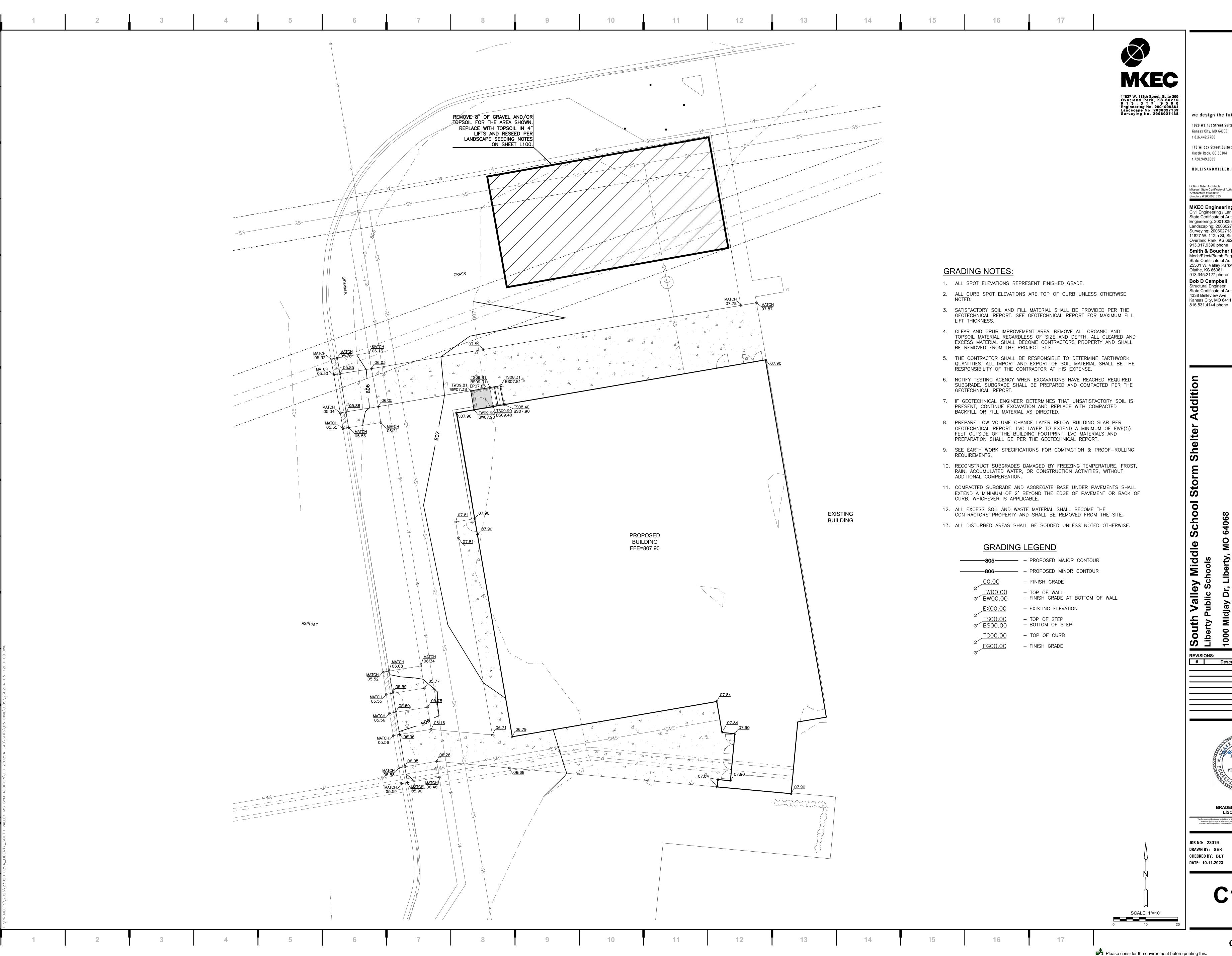
OVERALL SITE PLAN Please consider the environment before printing this.







PAVING PLAN



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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

REVISIONS:

Description Date

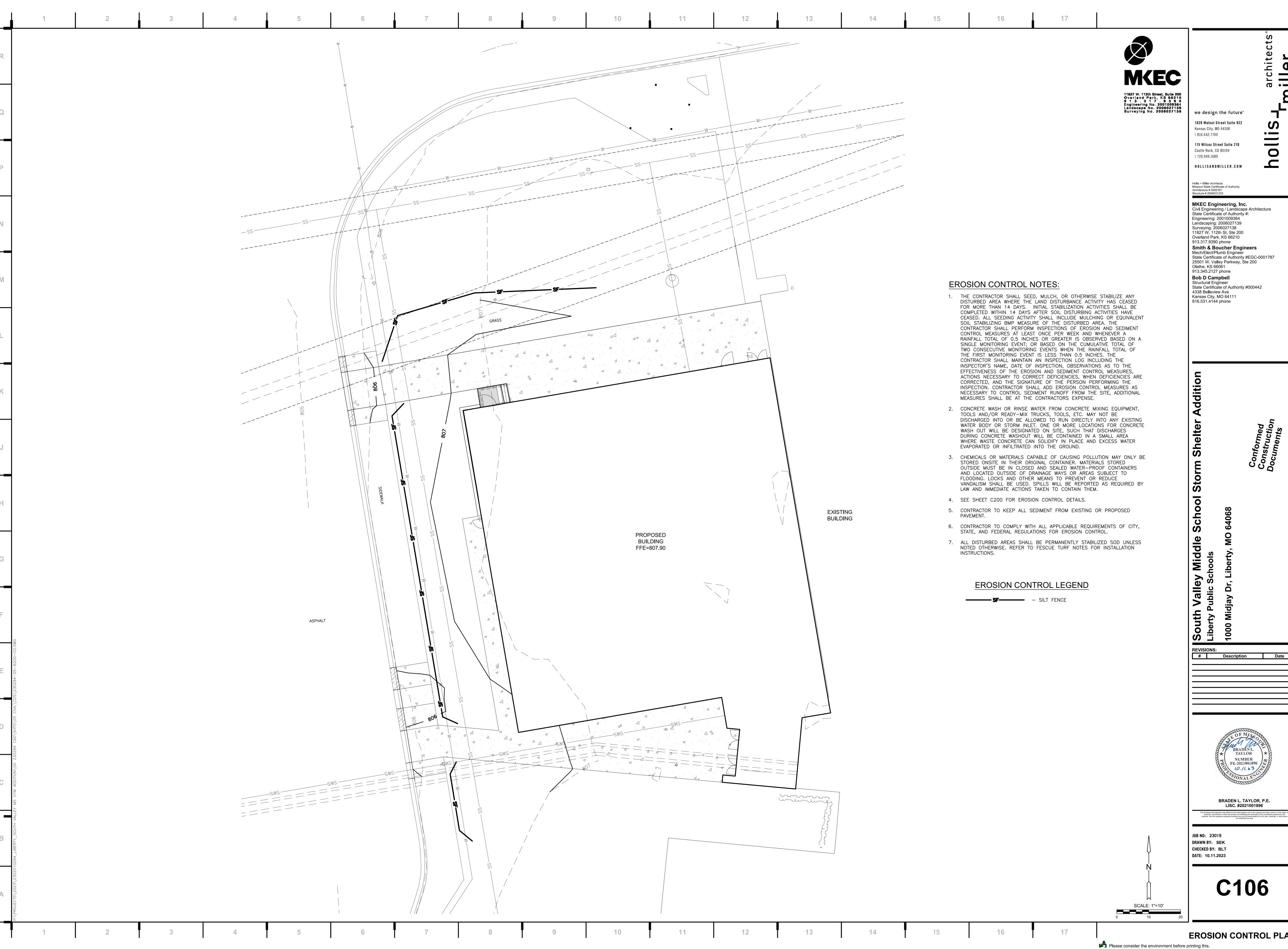


BRADEN L. TAYLOR, P.E. LISC. #2021001896

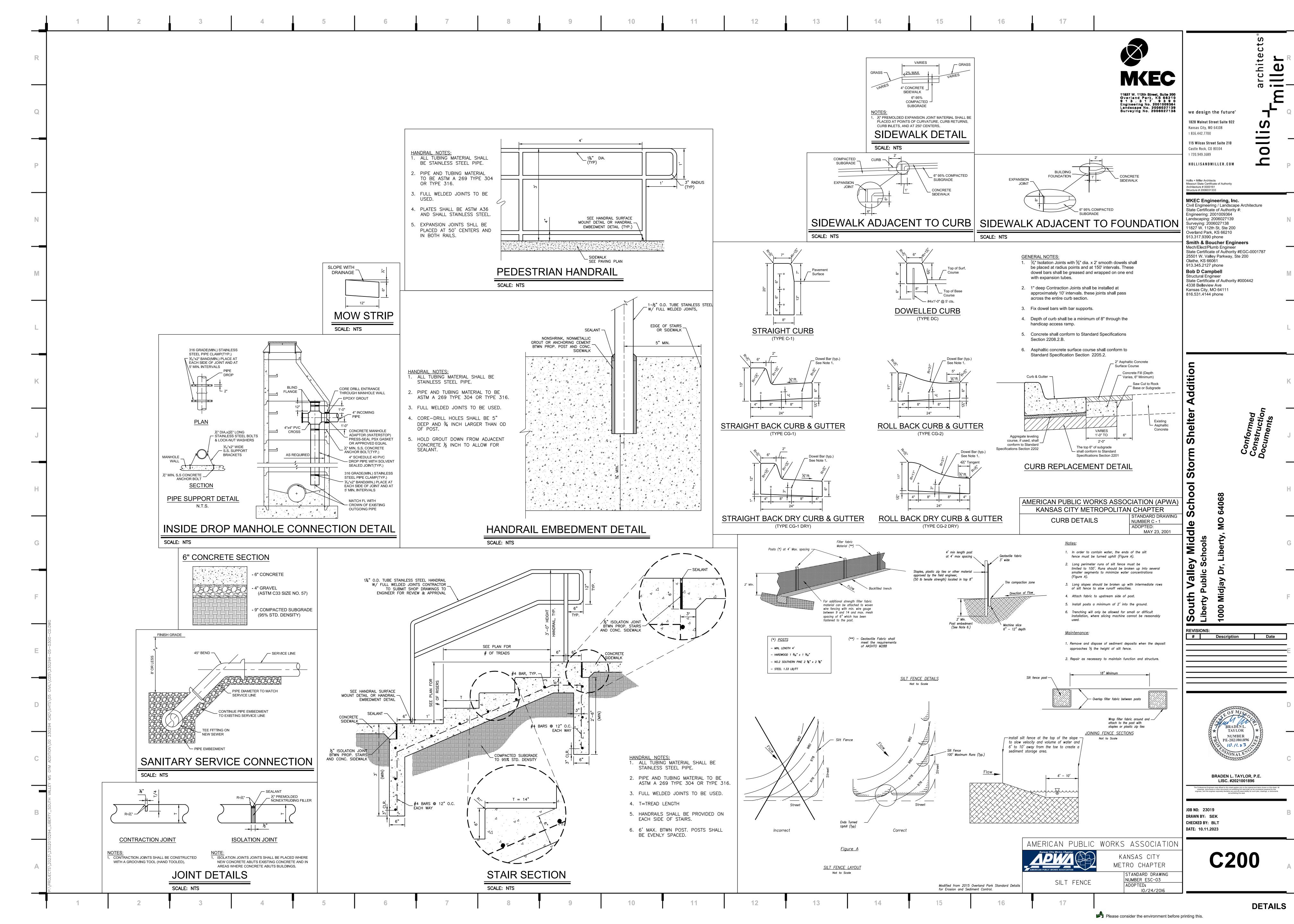
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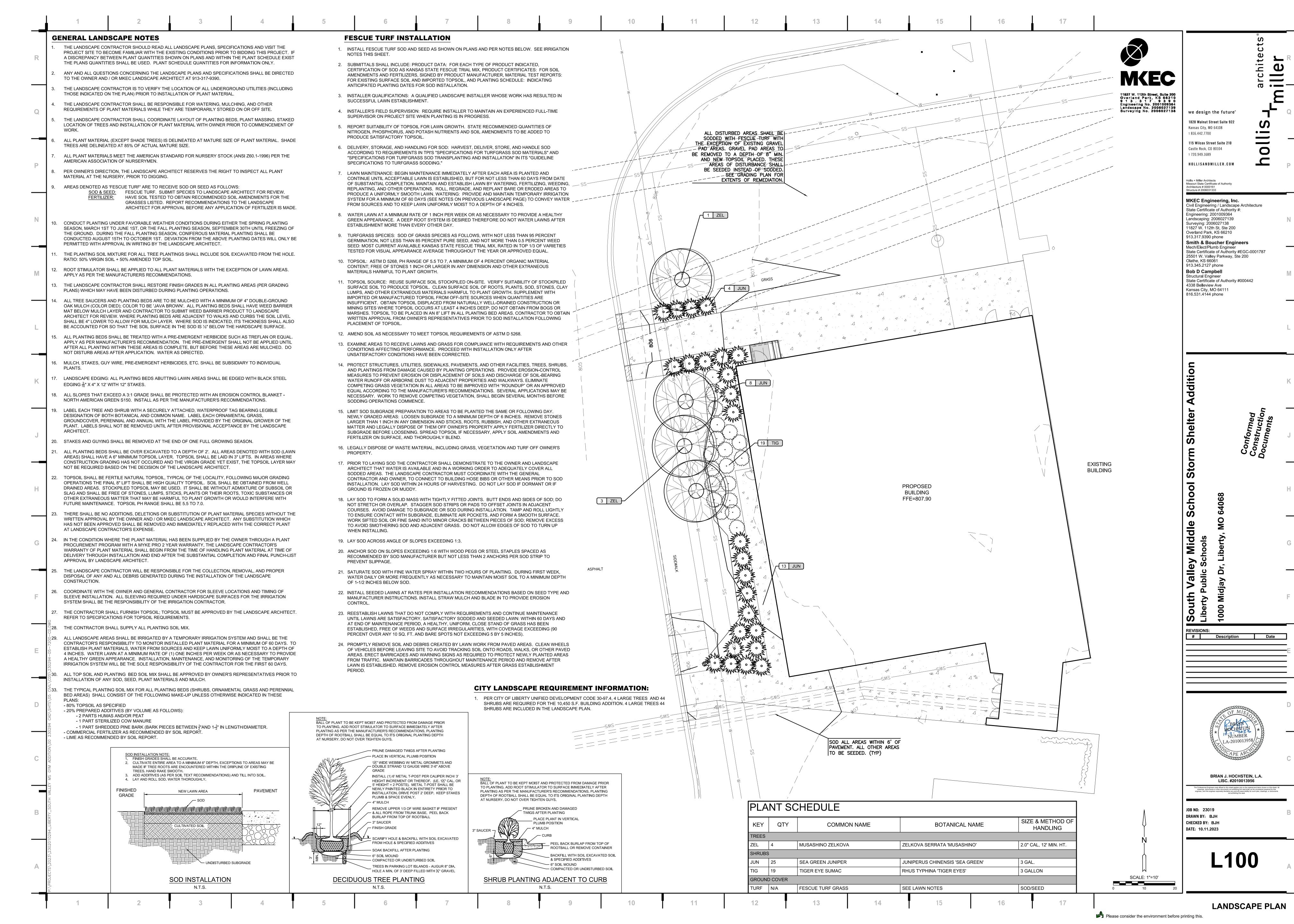
JOB NO: 23019 DRAWN BY: SEK CHECKED BY: BLT DATE: 10.11.2023

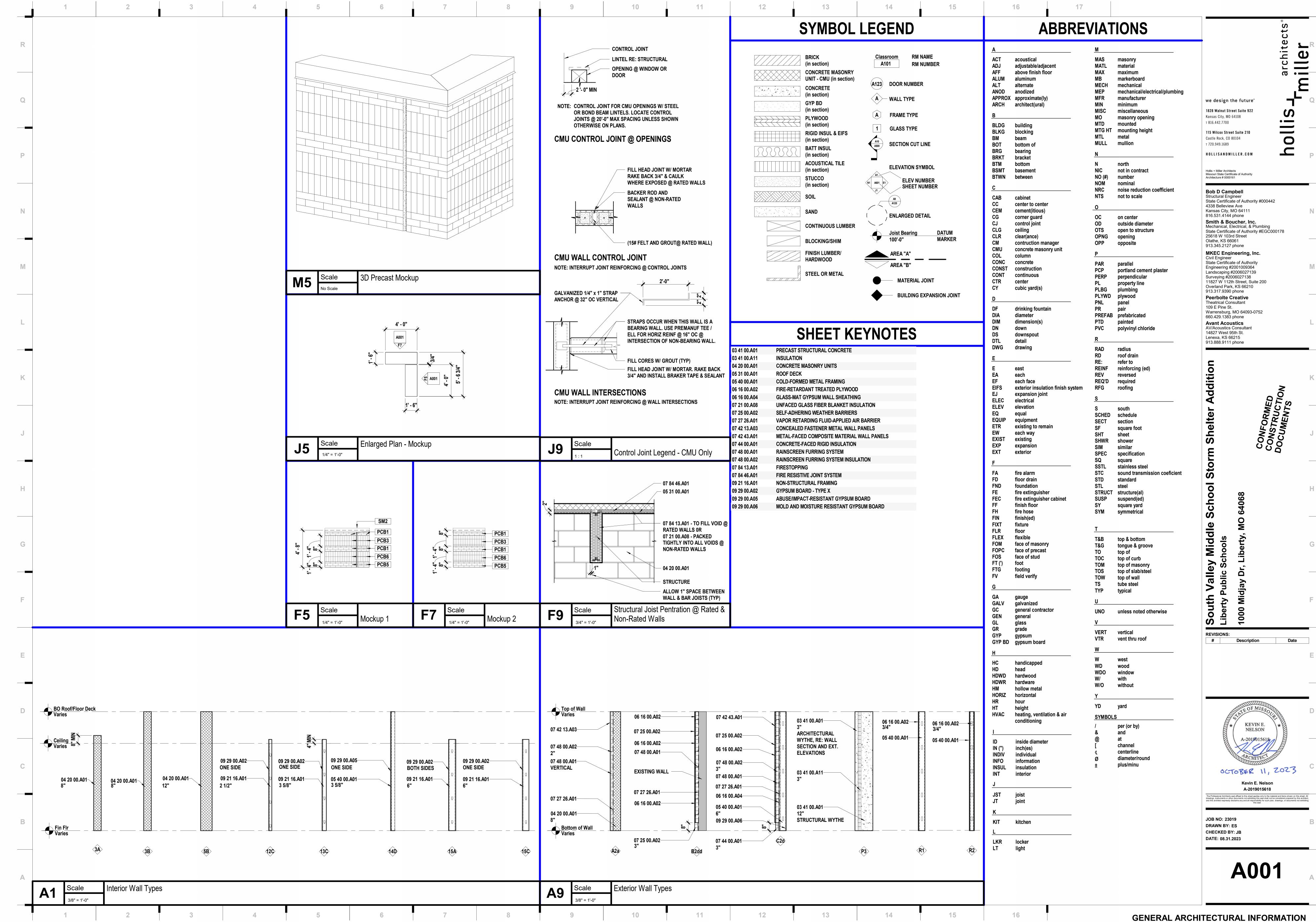
GRADING PLAN

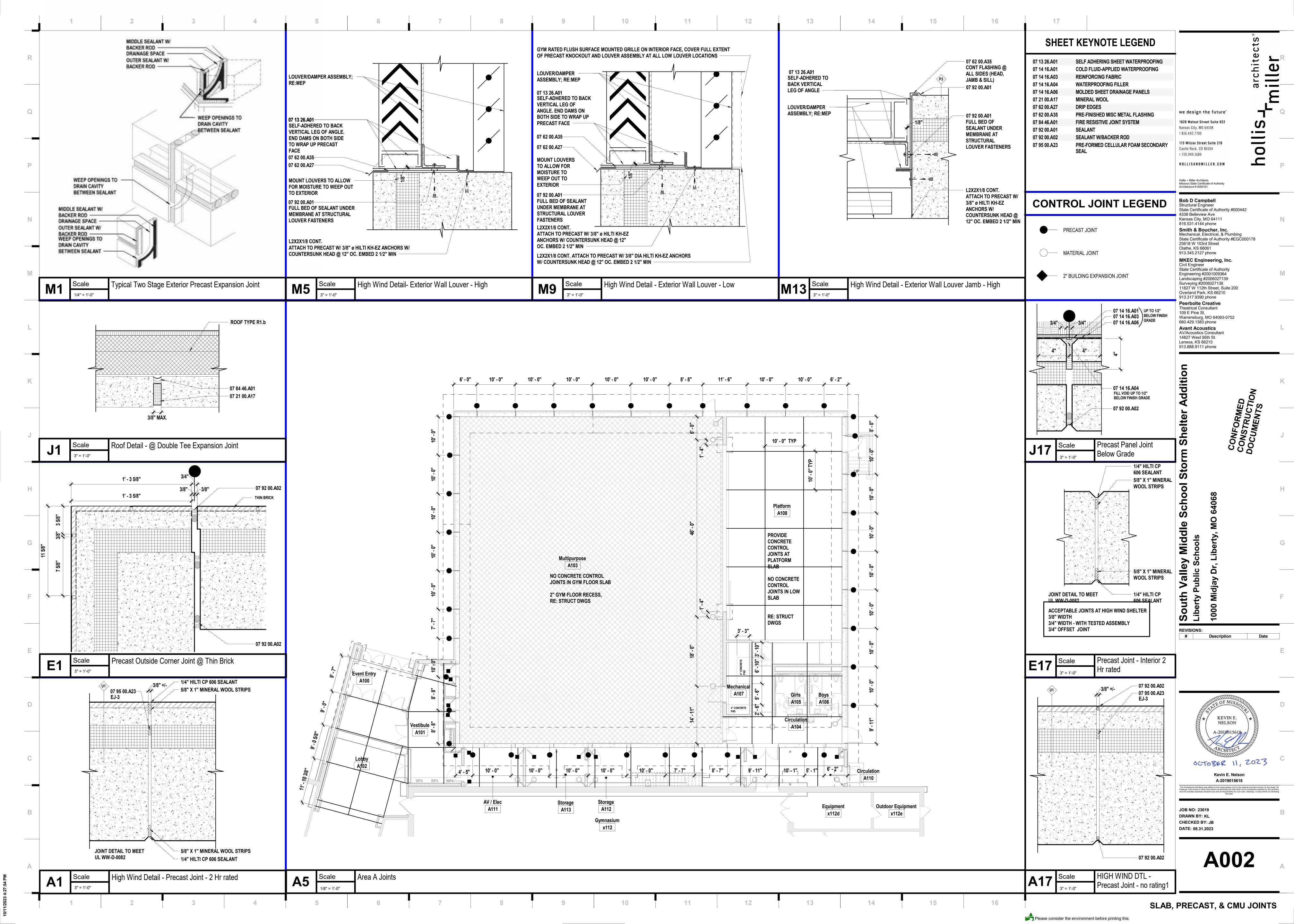


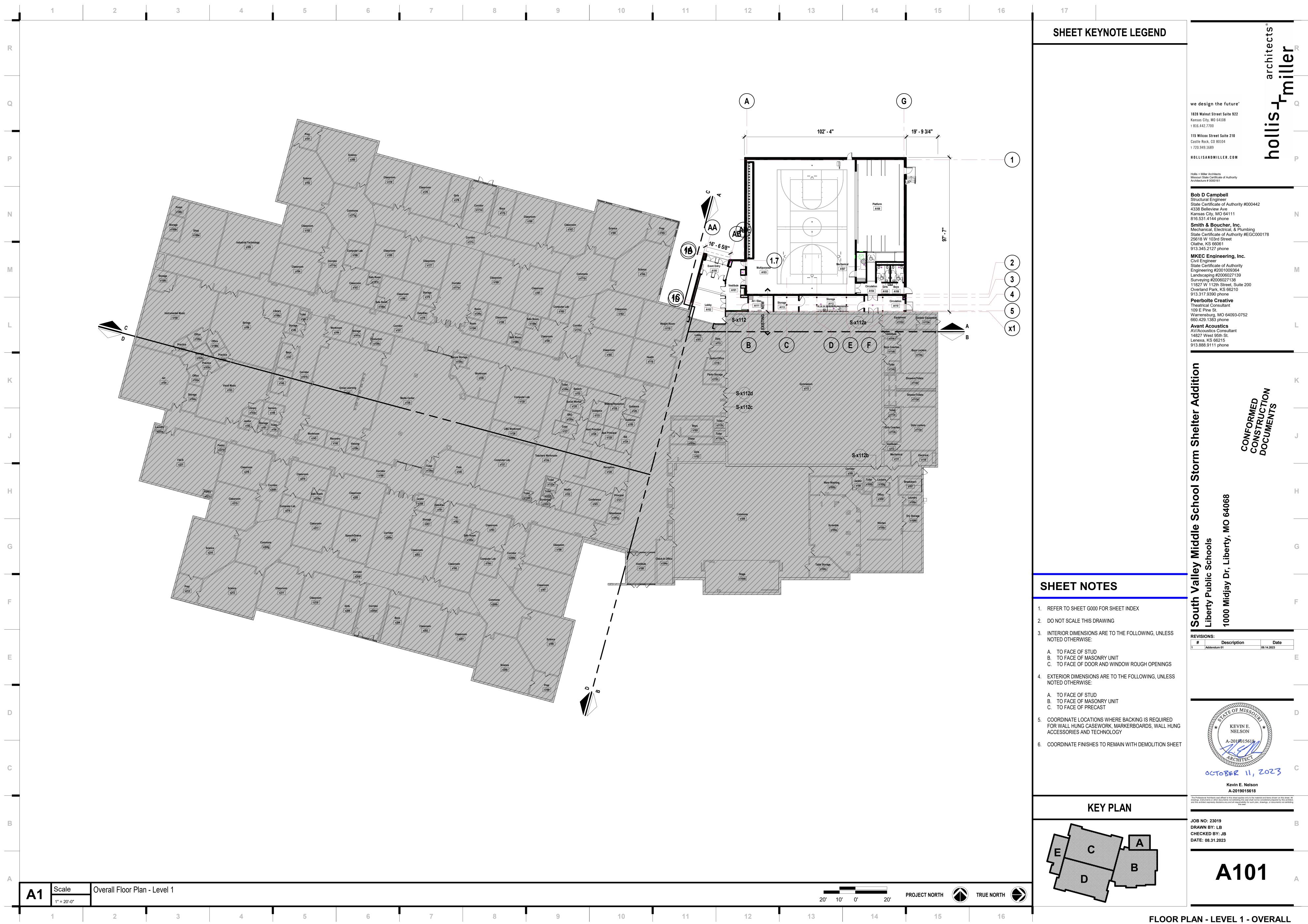
EROSION CONTROL PLAN



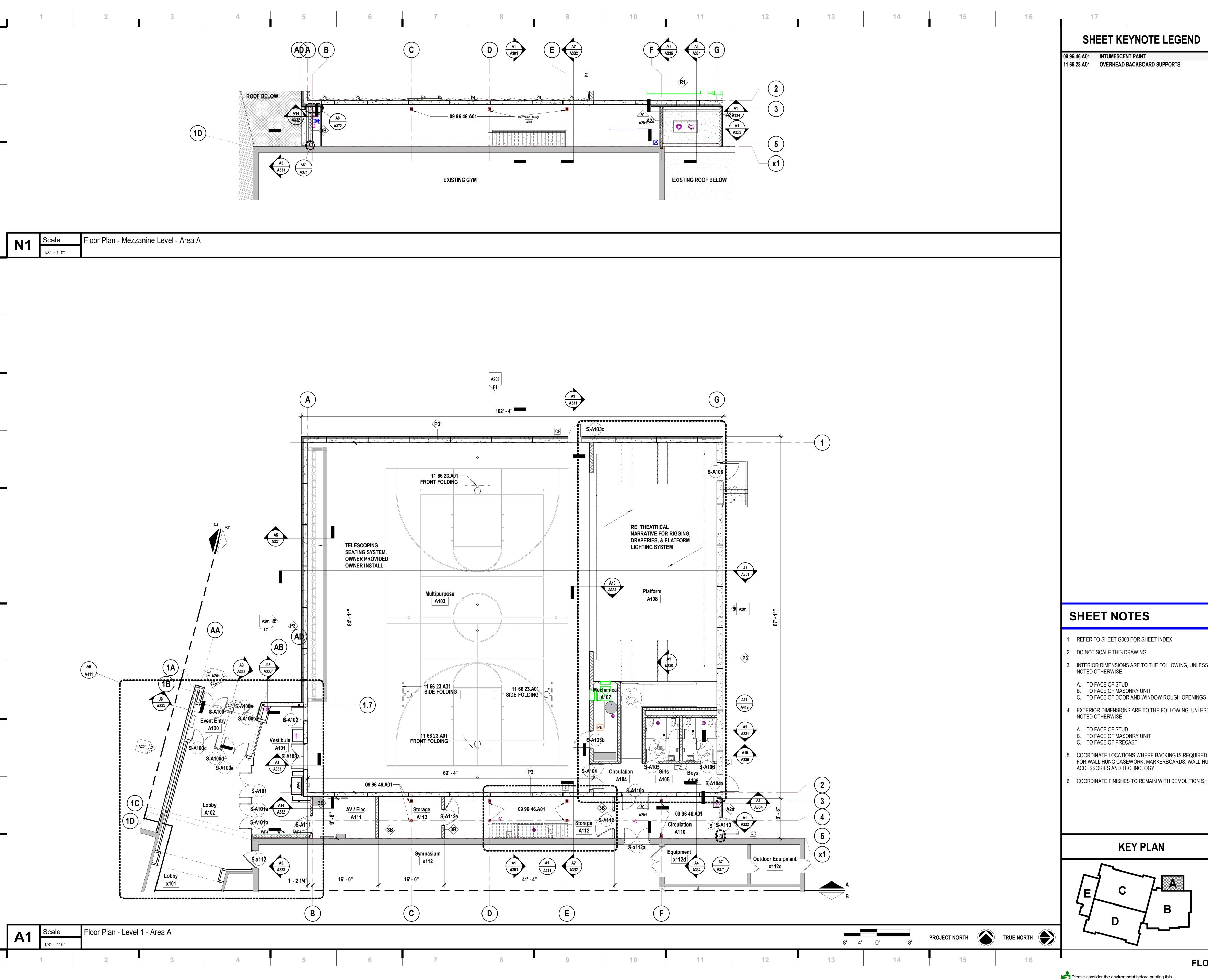








FLOOR PLAN - LEVEL 1 - OVERALI
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SHEET KEYNOTE LEGEND

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14827 West 95th St. Lenexa, KS 66215 913.888.9111 phone

09.14.2023 09.29.2023 10.06.2023

- EXTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLESS
- COORDINATE LOCATIONS WHERE BACKING IS REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, WALL HUNG
- . COORDINATE FINISHES TO REMAIN WITH DEMOLITION SHEET



OCTOBER 11, ZOZZ C Kevin E. Nelson A-2019015618

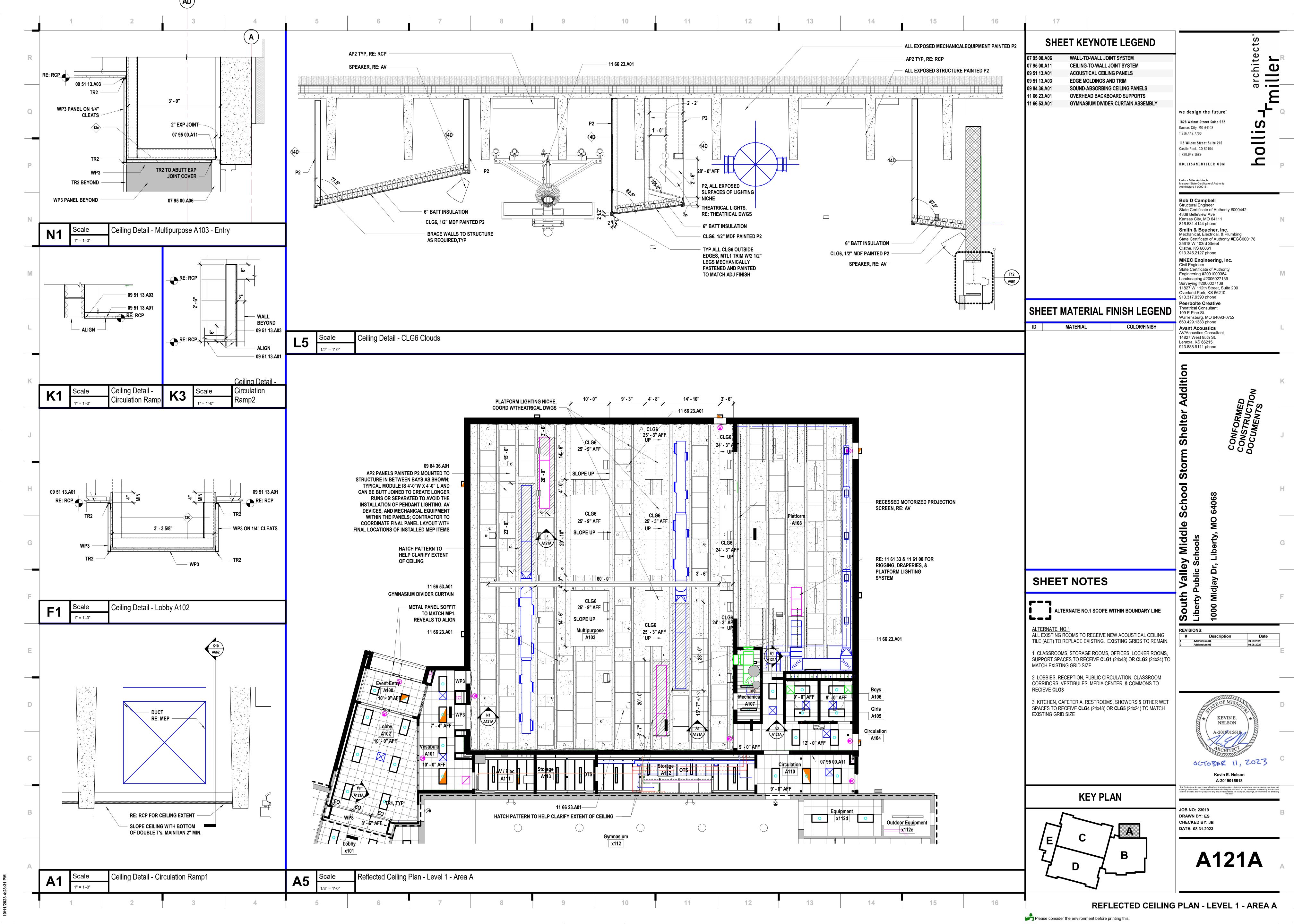
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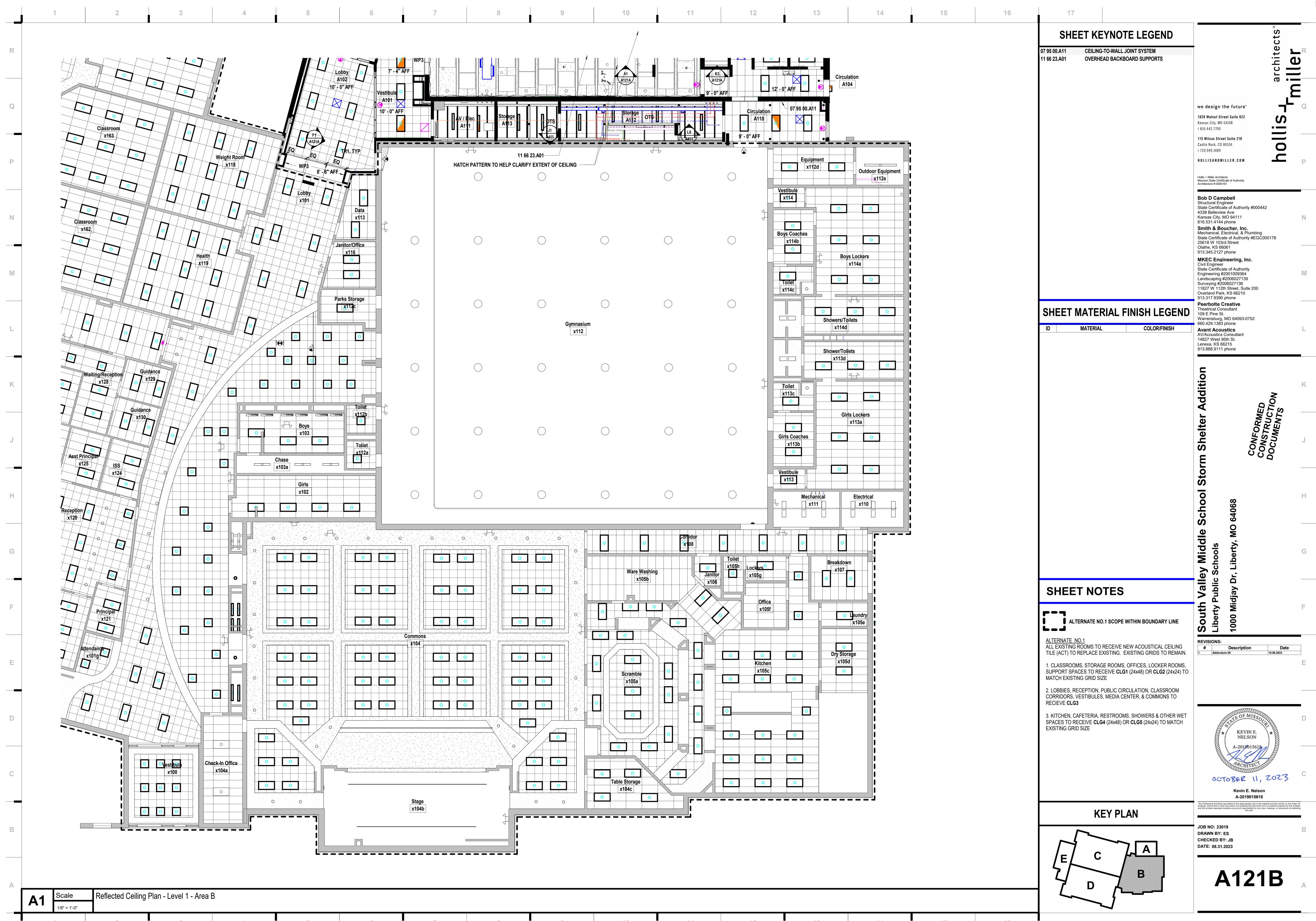
REVISIONS:

Addendum 01 Addendum 04 Addendum 05

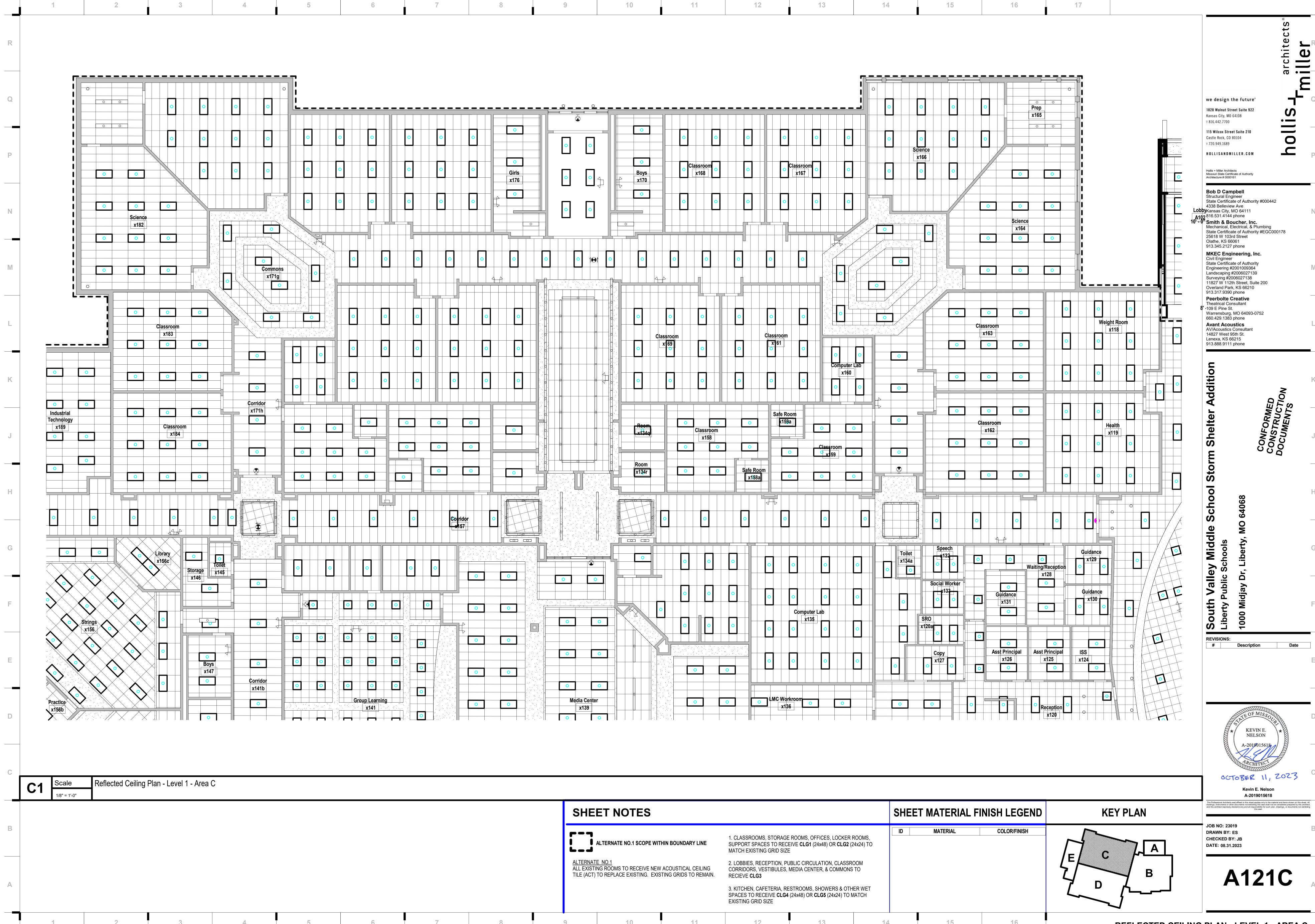
A101A

FLOOR PLAN - LEVEL 1 - AREA A

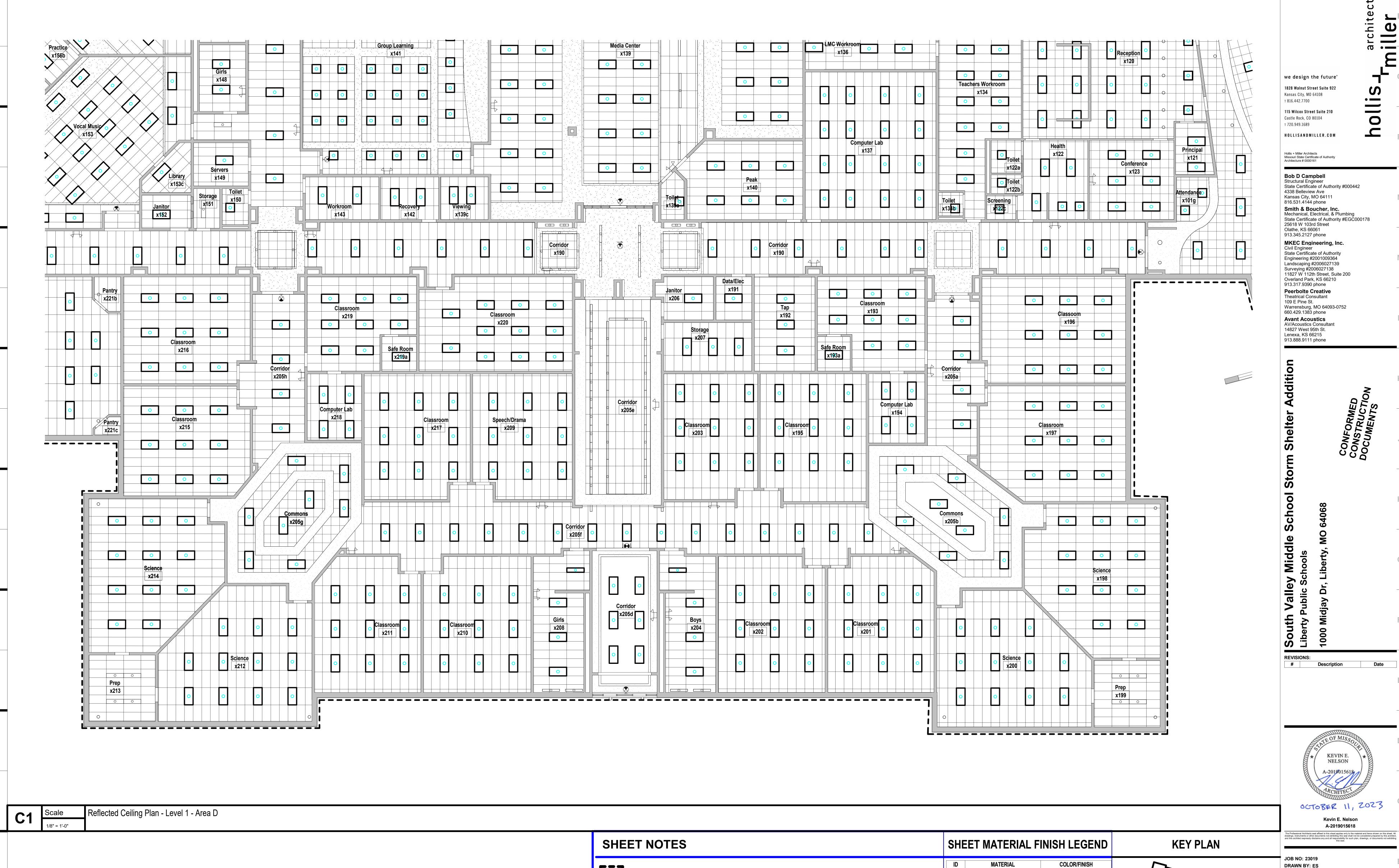




REFLECTED CEILING PLAN - LEVEL 1 - AREA B



REFLECTED CEILING PLAN - LEVEL 1 - AREA C



ALTERNATE NO.1 SCOPE WITHIN BOUNDARY LINE

ALL EXISTING ROOMS TO RECEIVE NEW ACOUSTICAL CEILING

TILE (ACT) TO REPLACE EXISTING. EXISTING GRIDS TO REMAIN.

1. CLASSROOMS, STORAGE ROOMS, OFFICES, LOCKER ROOMS,

2. LOBBIES, RECEPTION, PUBLIC CIRCULATION, CLASSROOM

CORRIDORS, VESTIBULES, MEDIA CENTER, & COMMONS TO

3. KITCHEN, CAFETERIA, RESTROOMS, SHOWERS & OTHER WET SPACES TO RECEIVE **CLG4** (24x48) OR **CLG5** (24x24) TO MATCH

MATCH EXISTING GRID SIZE

RECIEVE CLG3

EXISTING GRID SIZE

SUPPORT SPACES TO RECEIVE **CLG1** (24x48) OR **CLG2** (24x24) TO

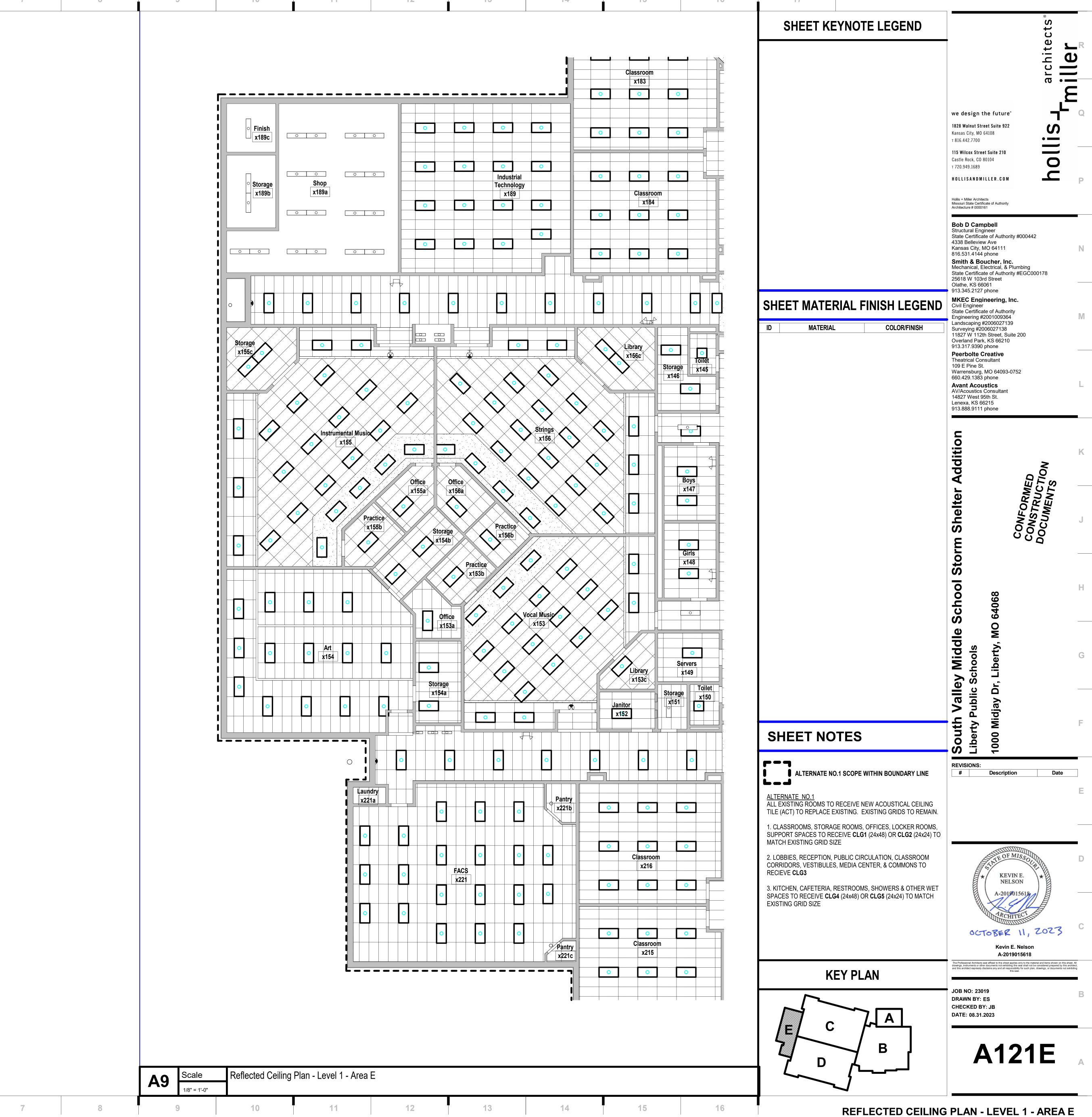
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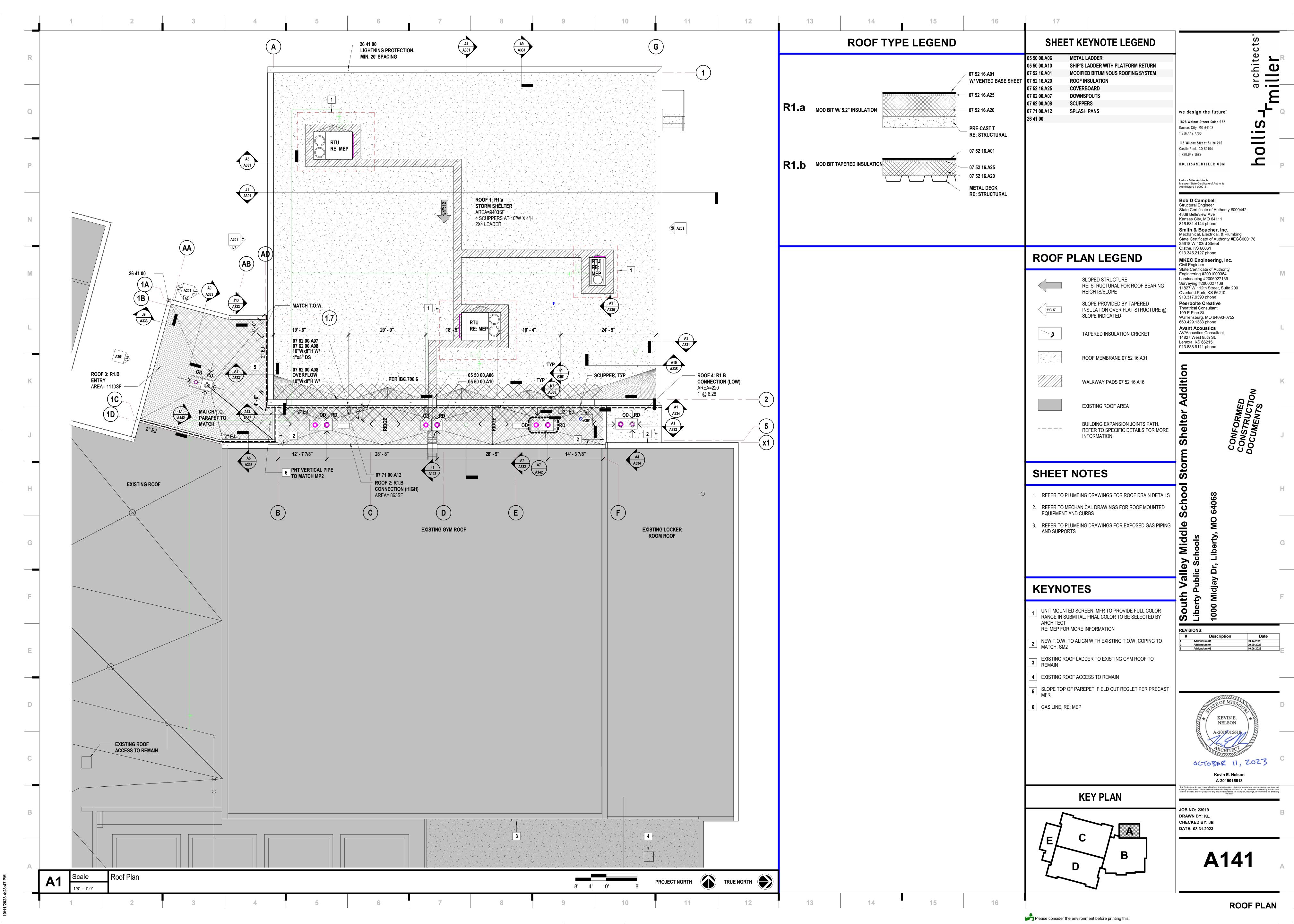
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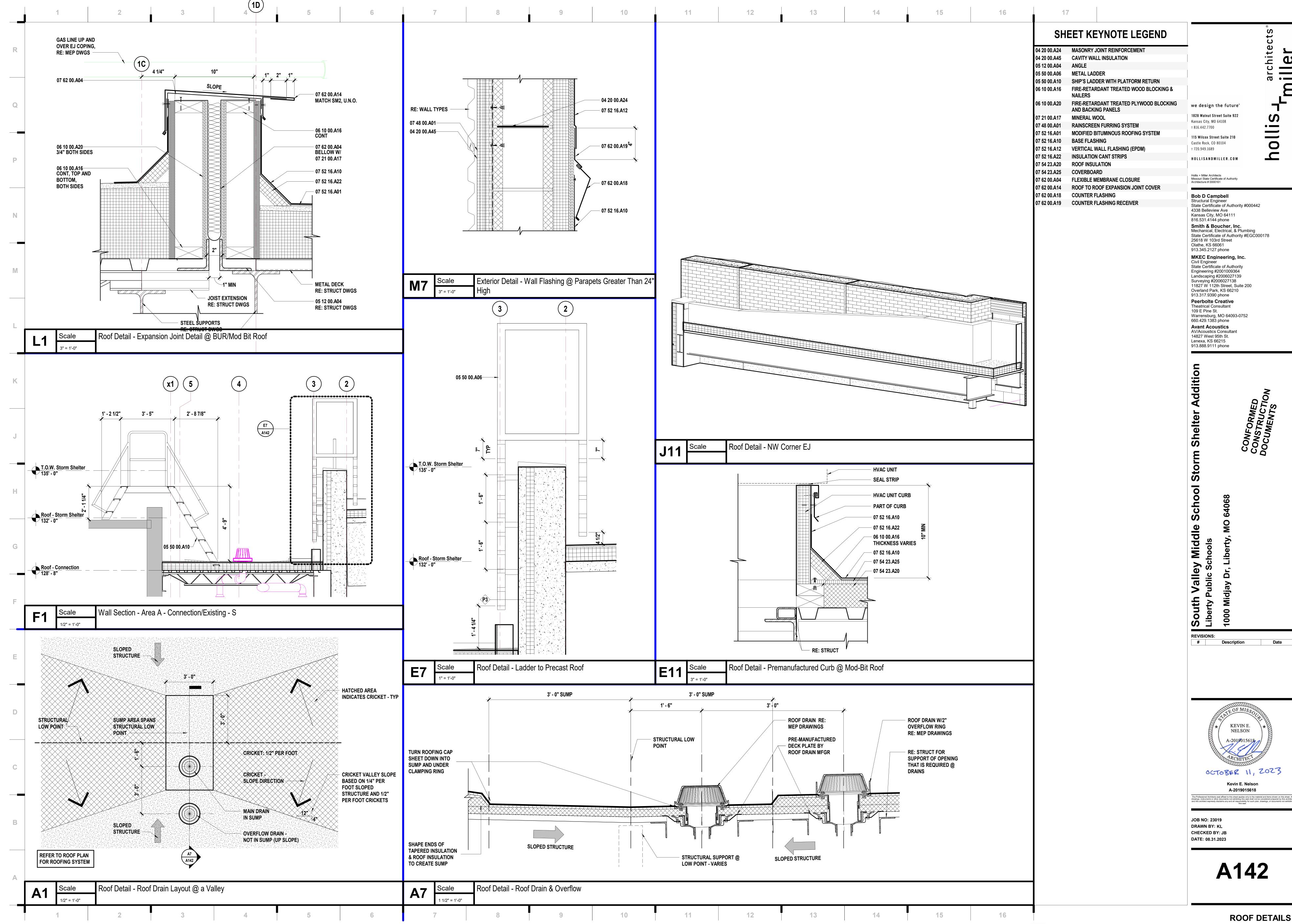
JOB NO: 23019 DRAWN BY: ES CHECKED BY: JB DATE: 08.31.2023

A121D

REFLECTED CEILING PLAN - LEVEL 1 - AREA D



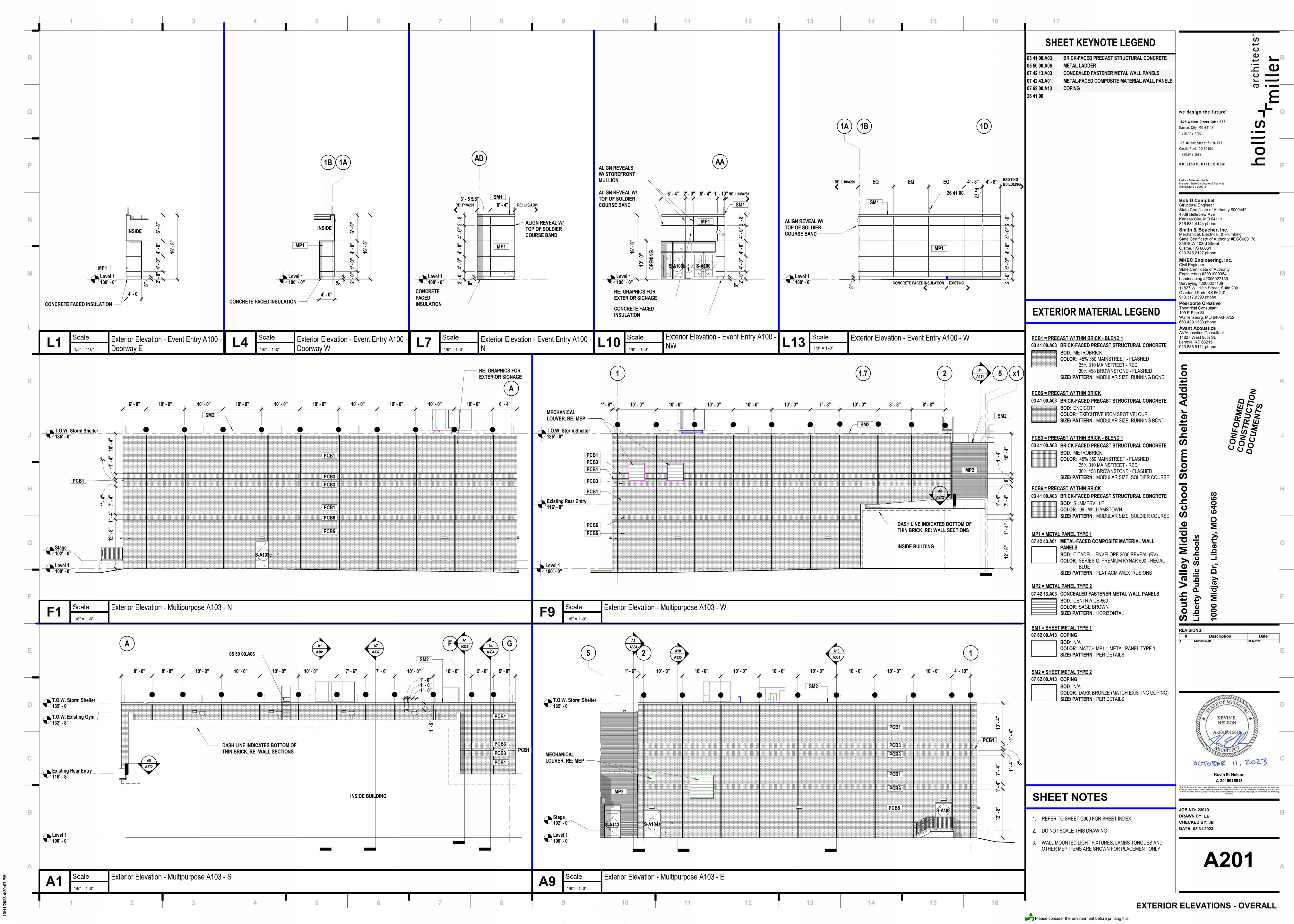


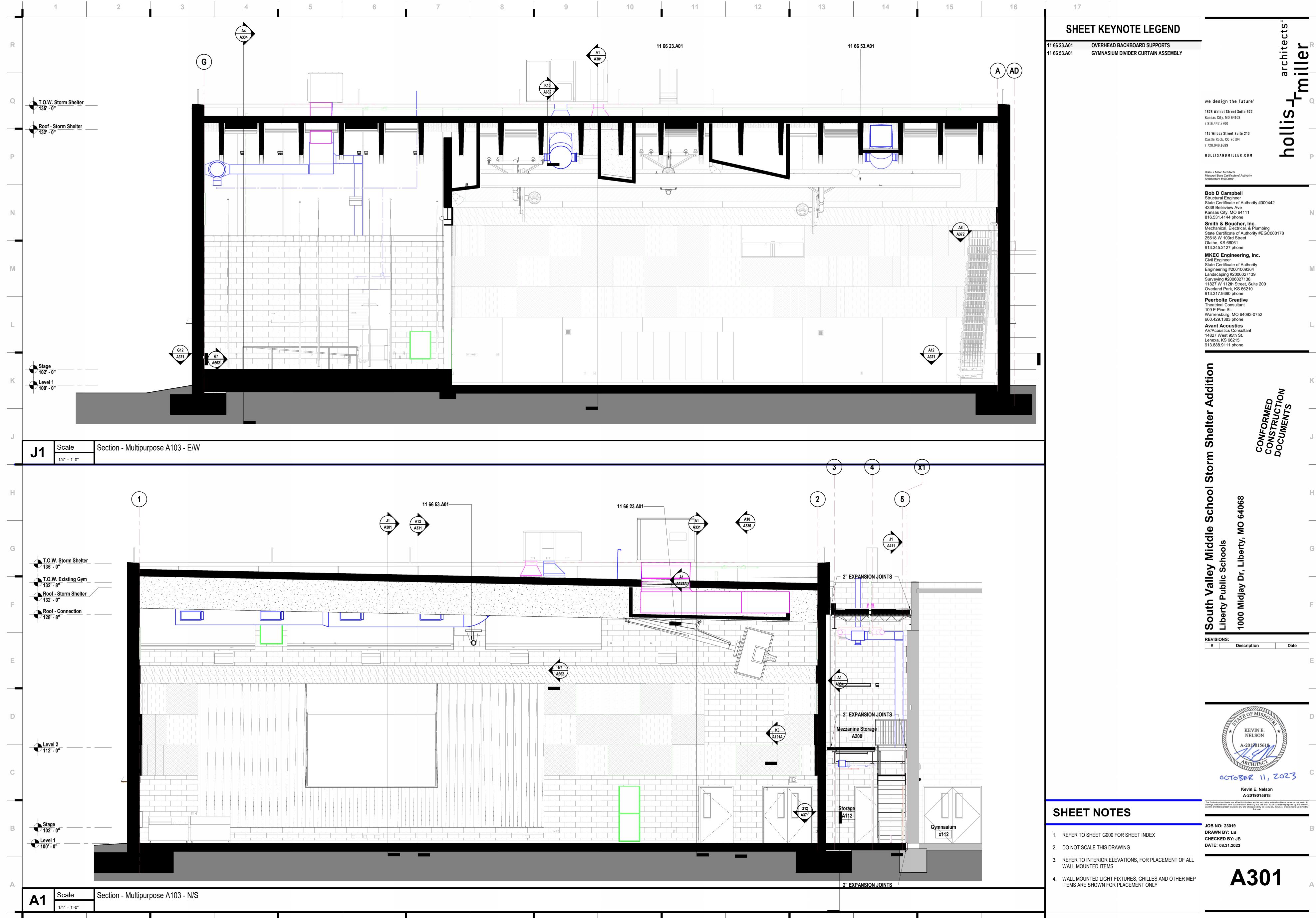


ROOF DETAILS

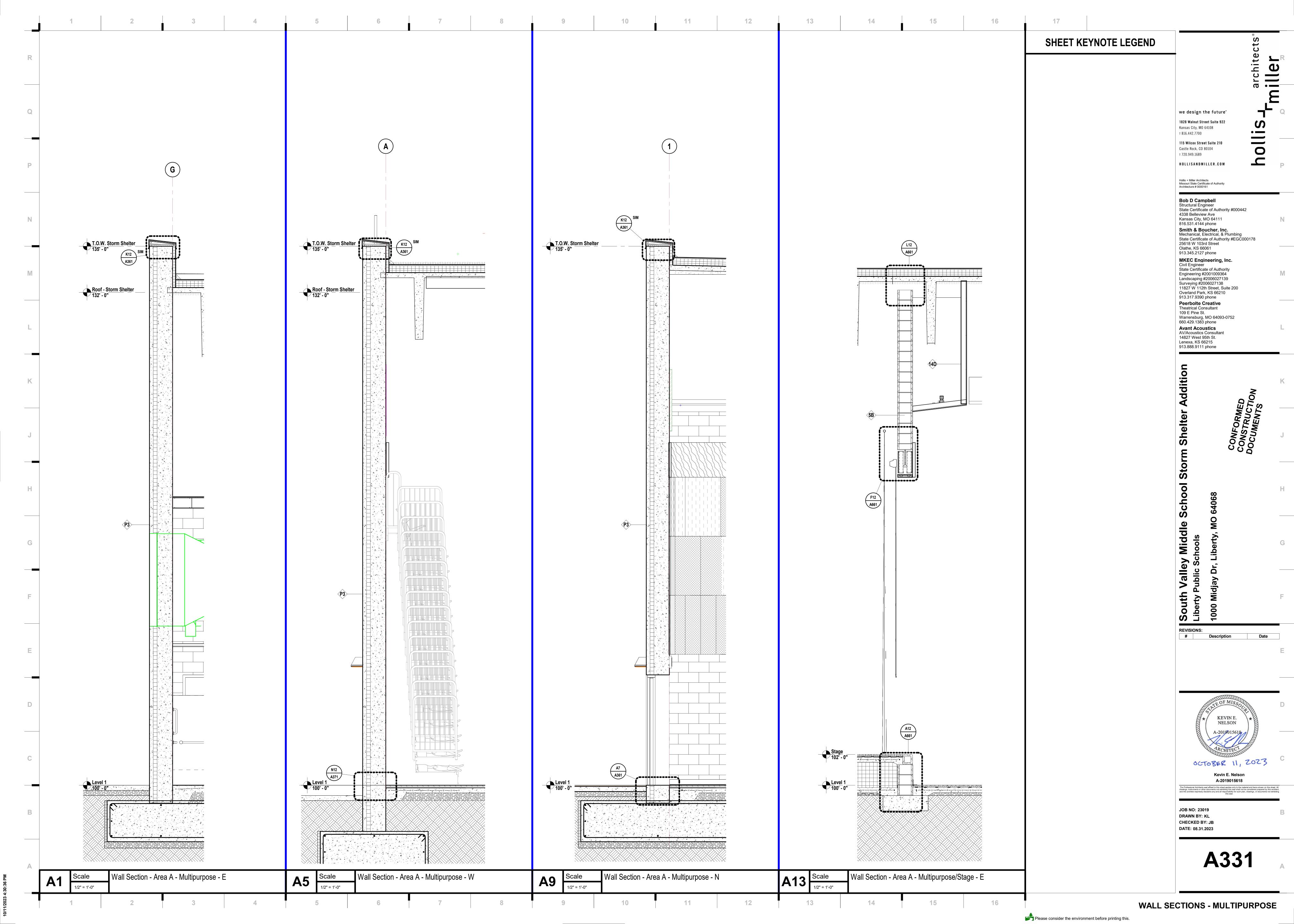
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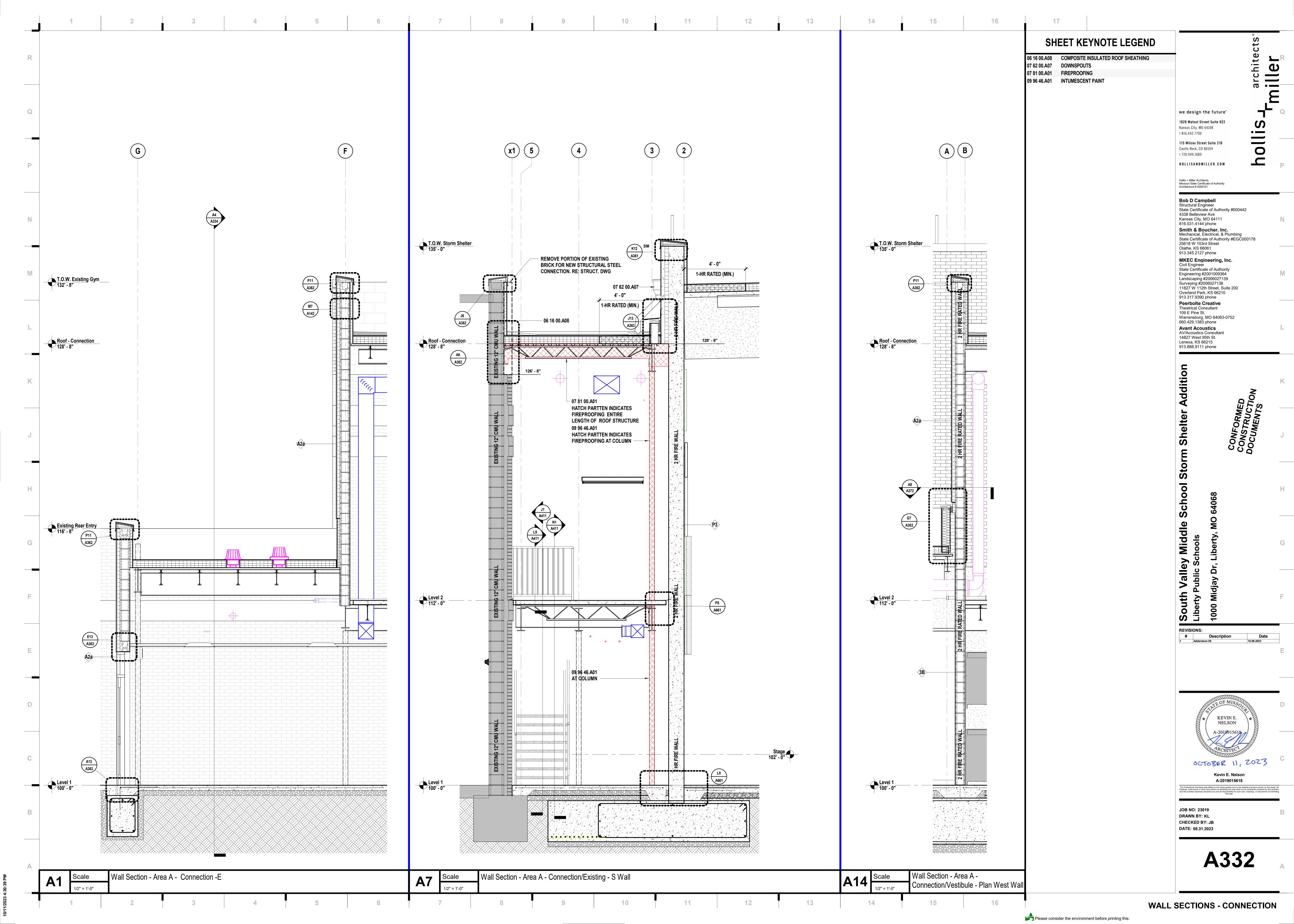
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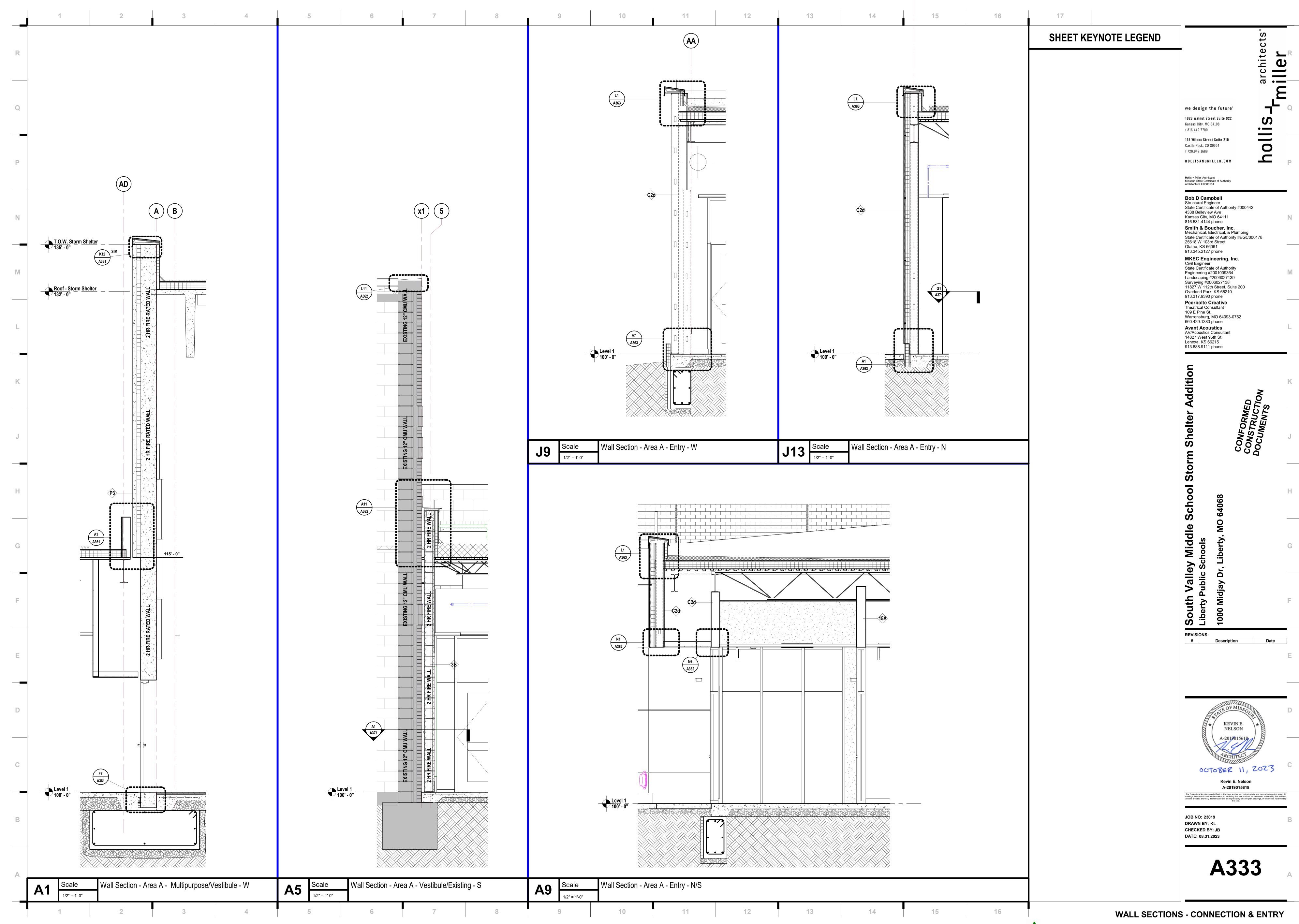


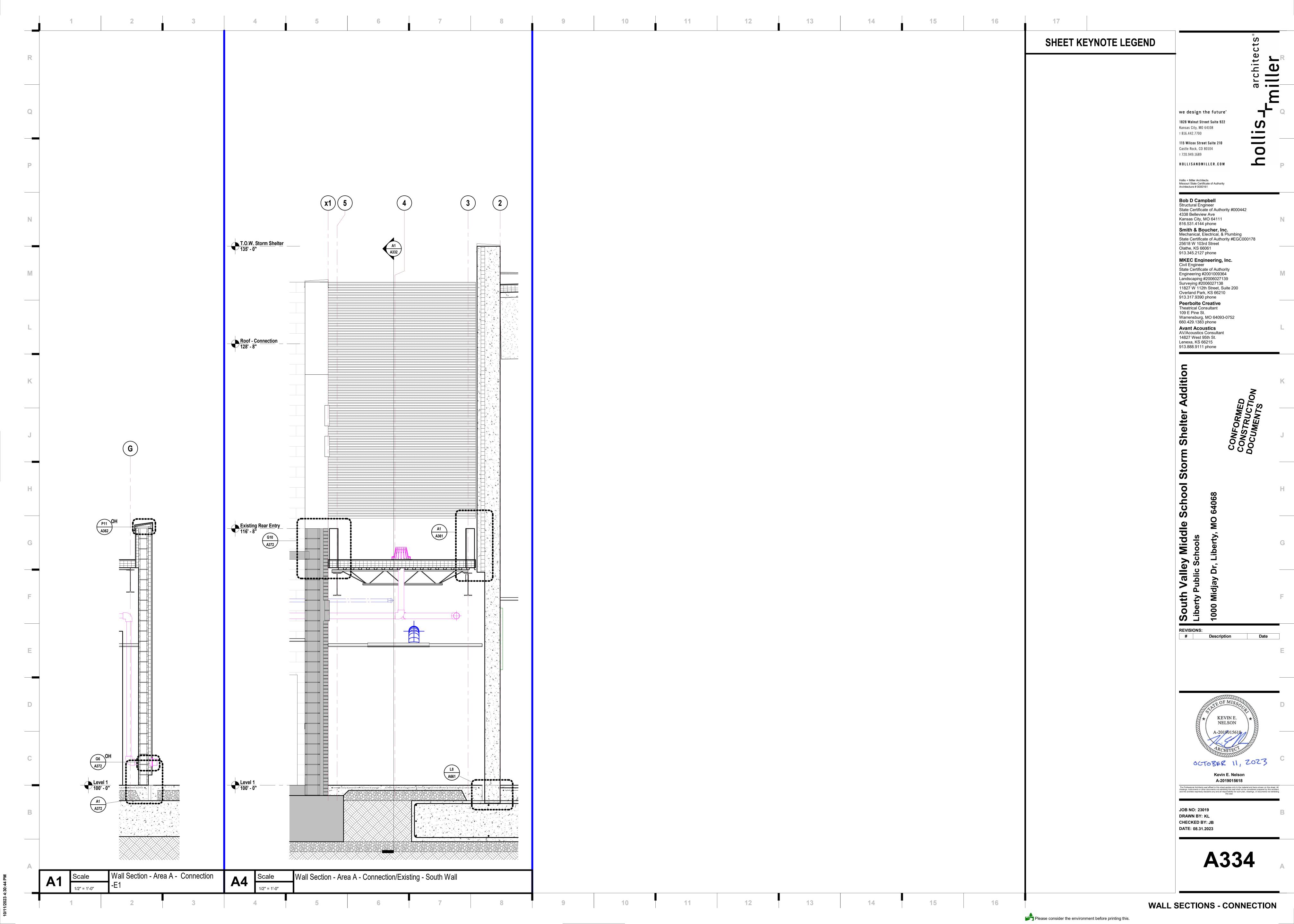


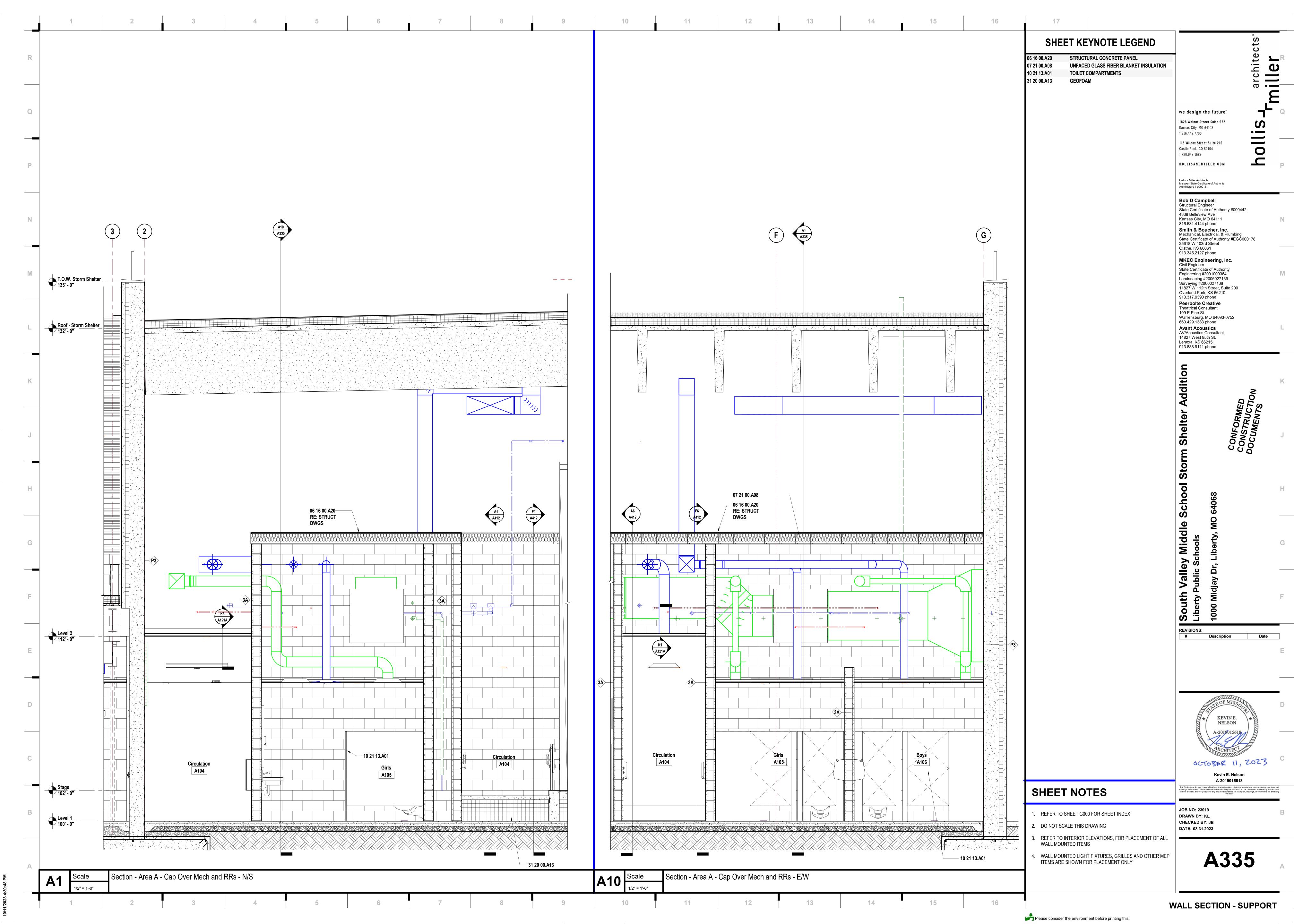
BUILDING SECTIONS

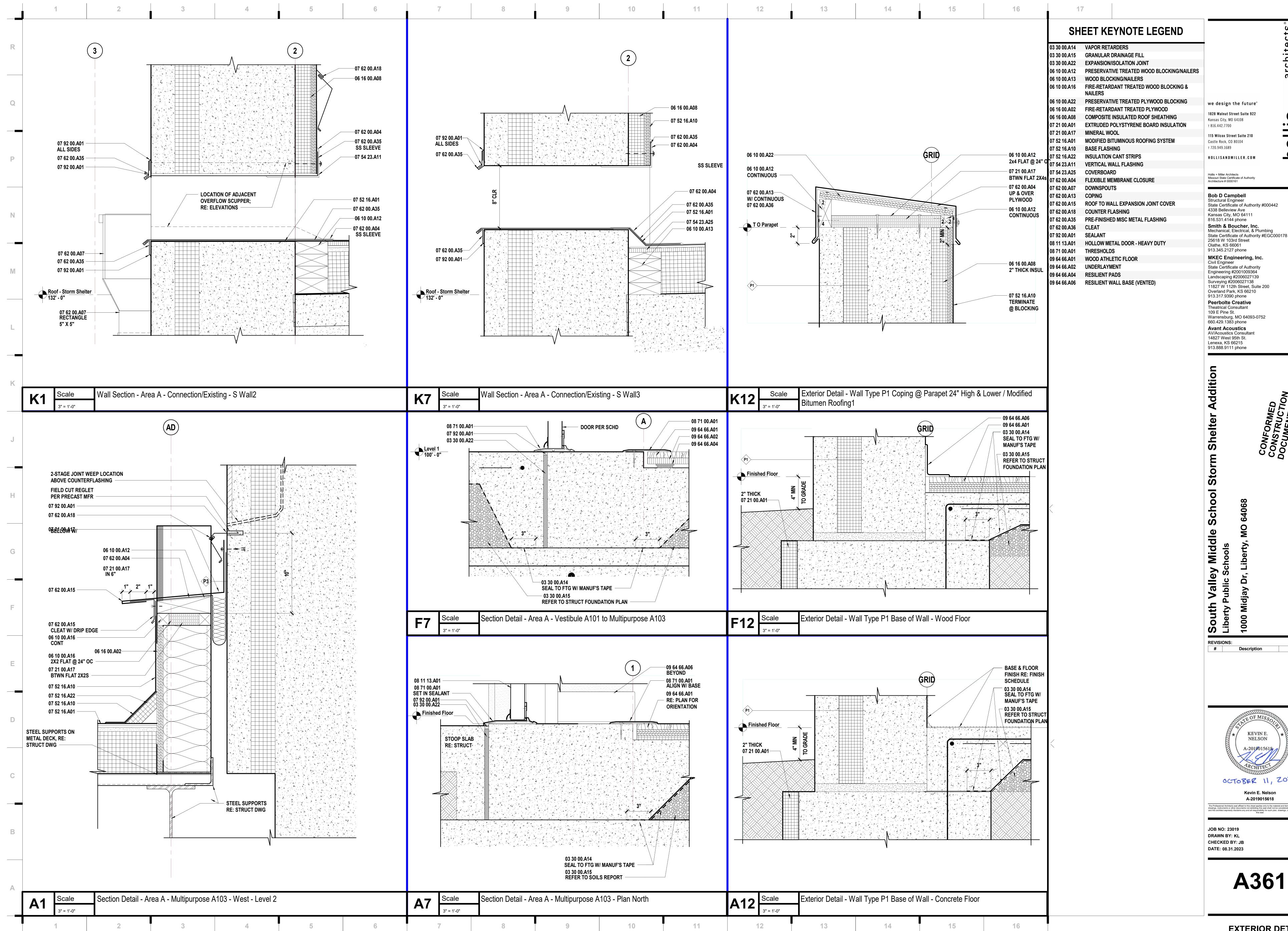


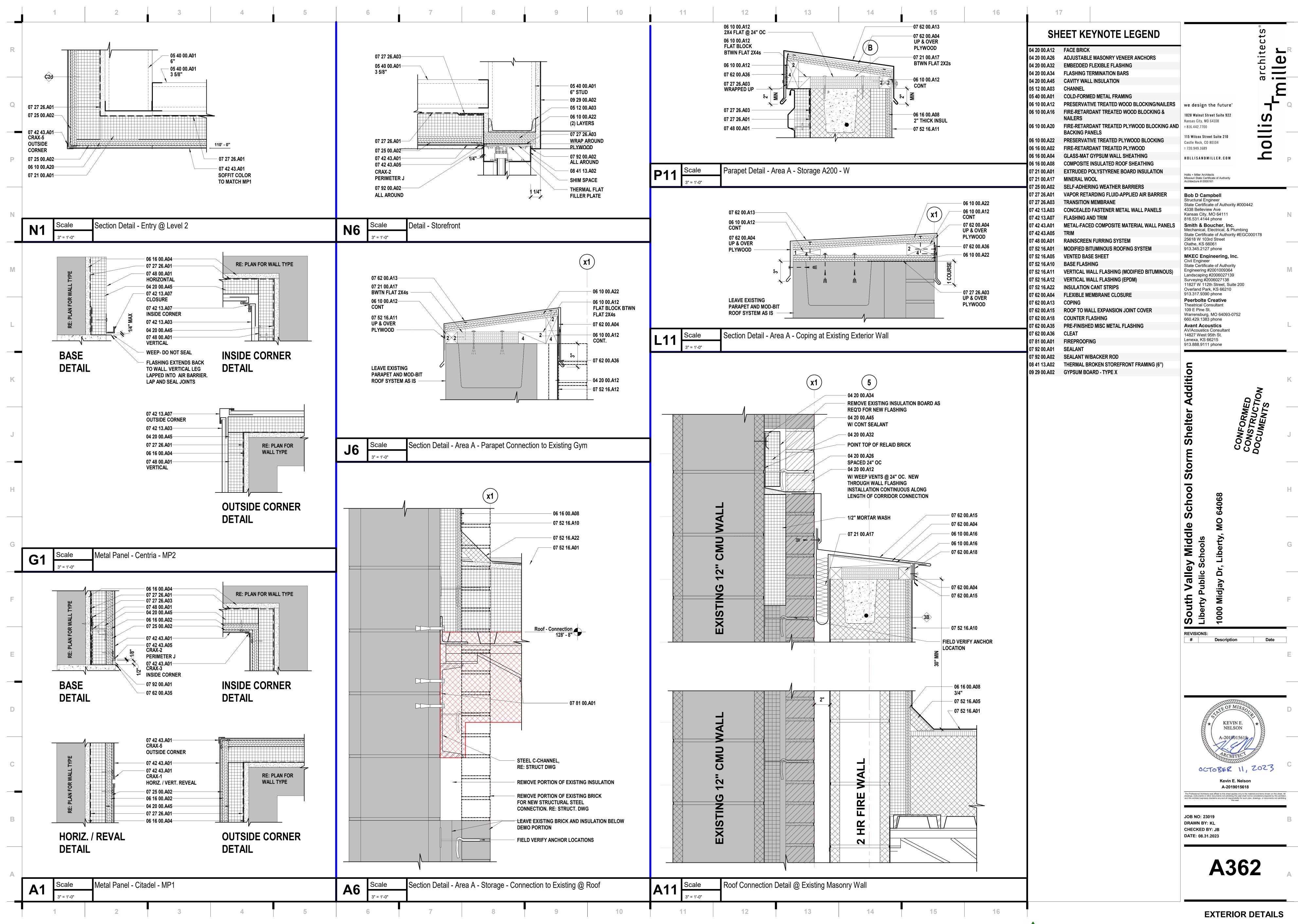








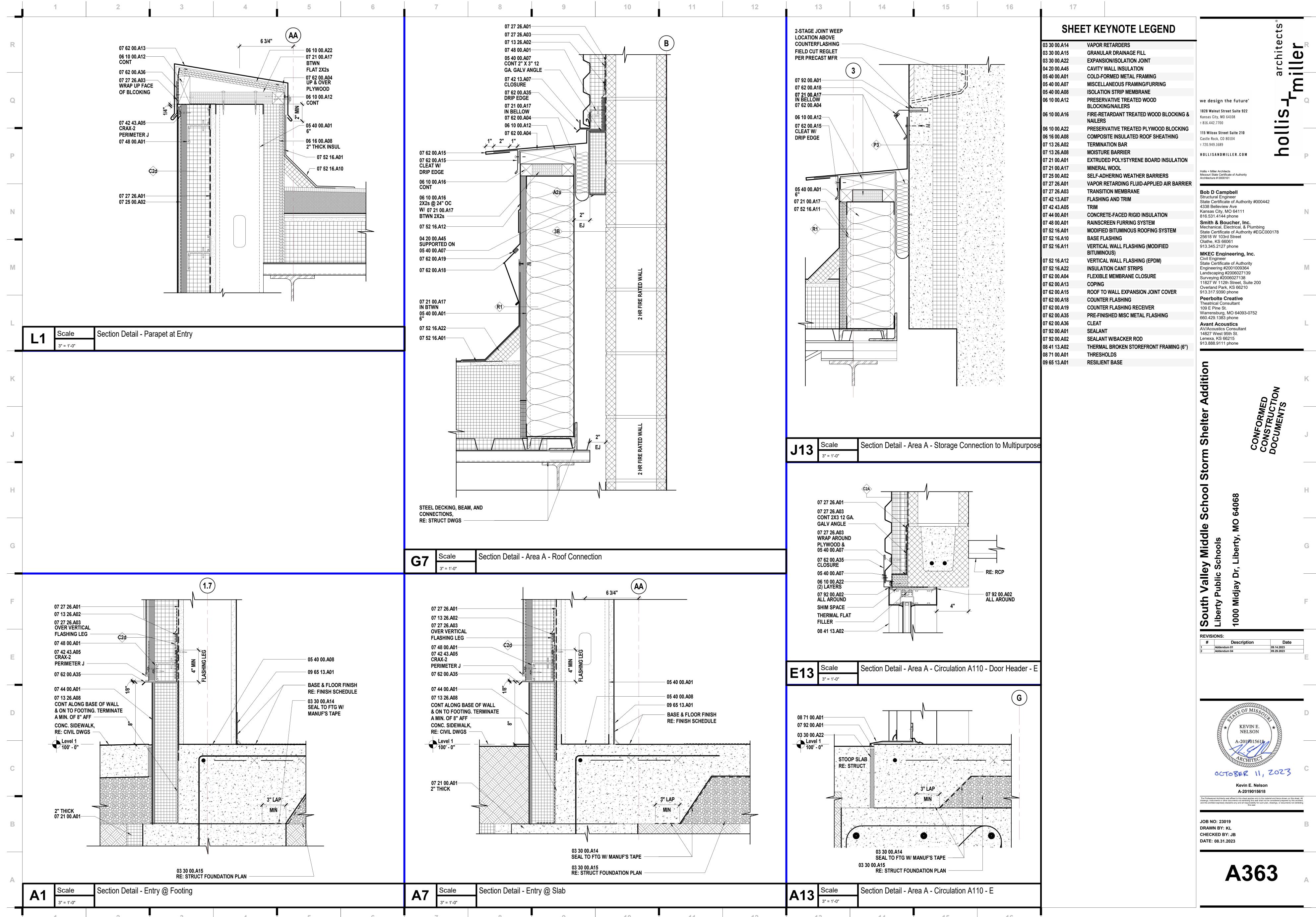




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Date





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REVISIONS:

OCTOBER 11, ZOZZ

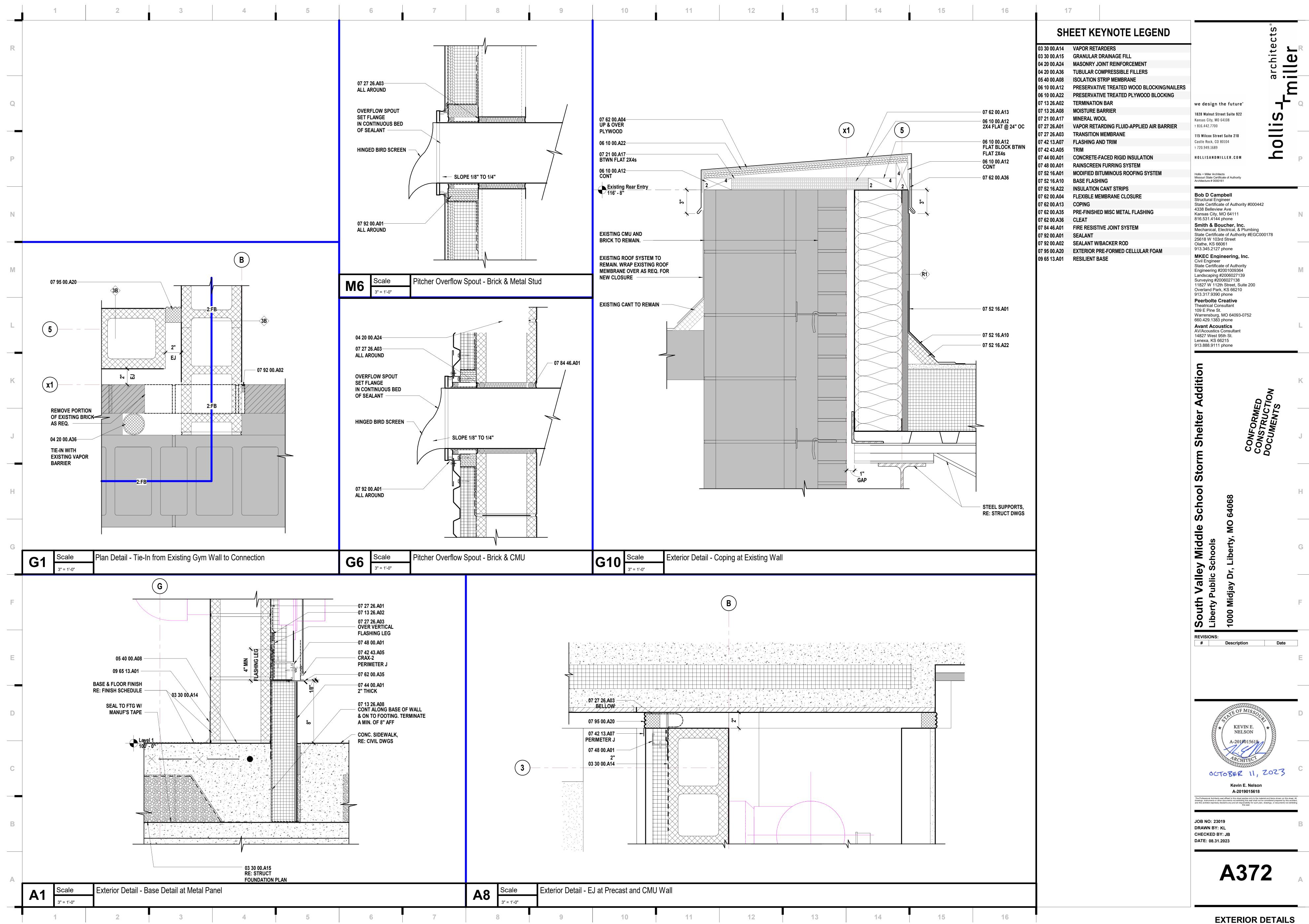
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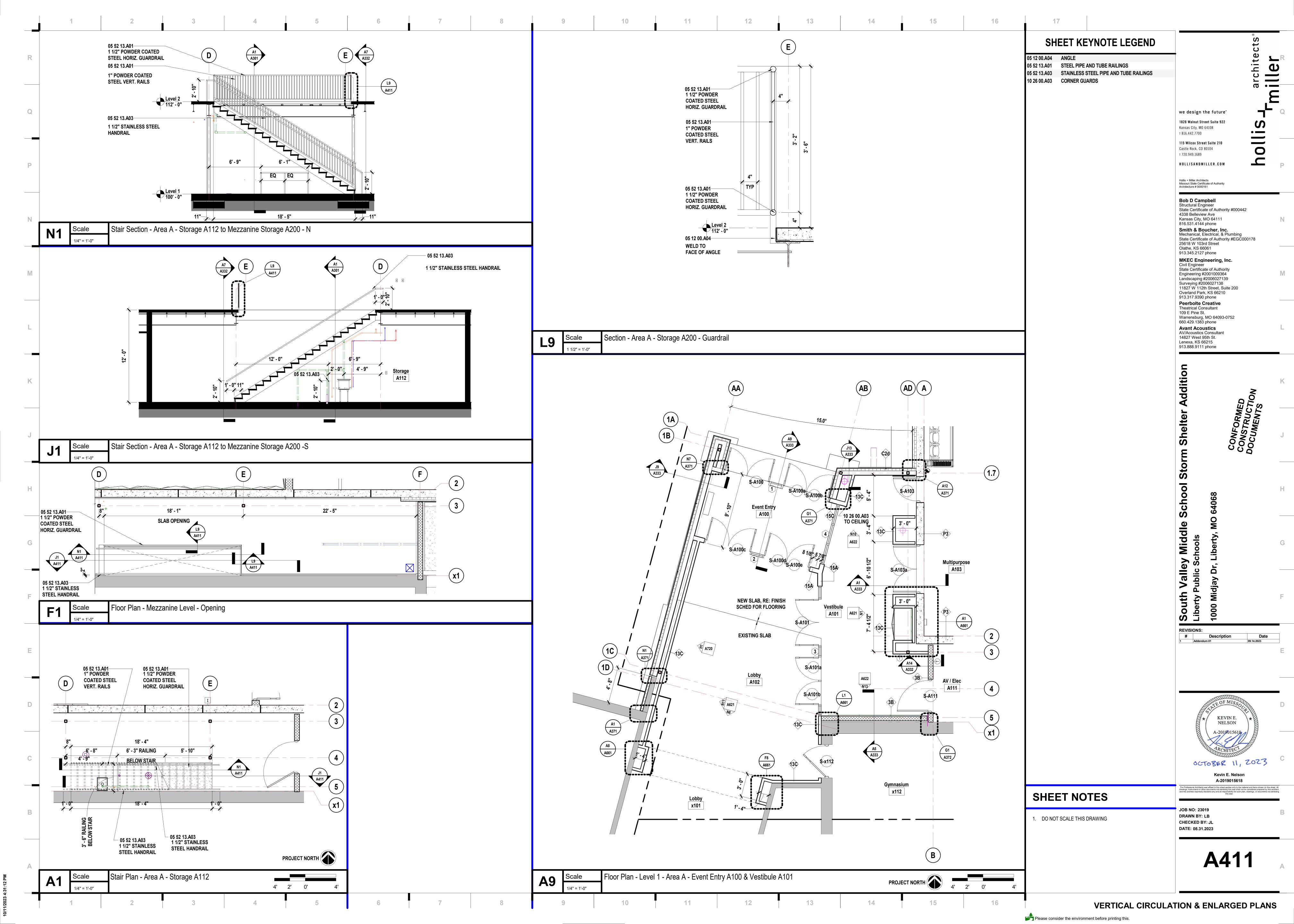
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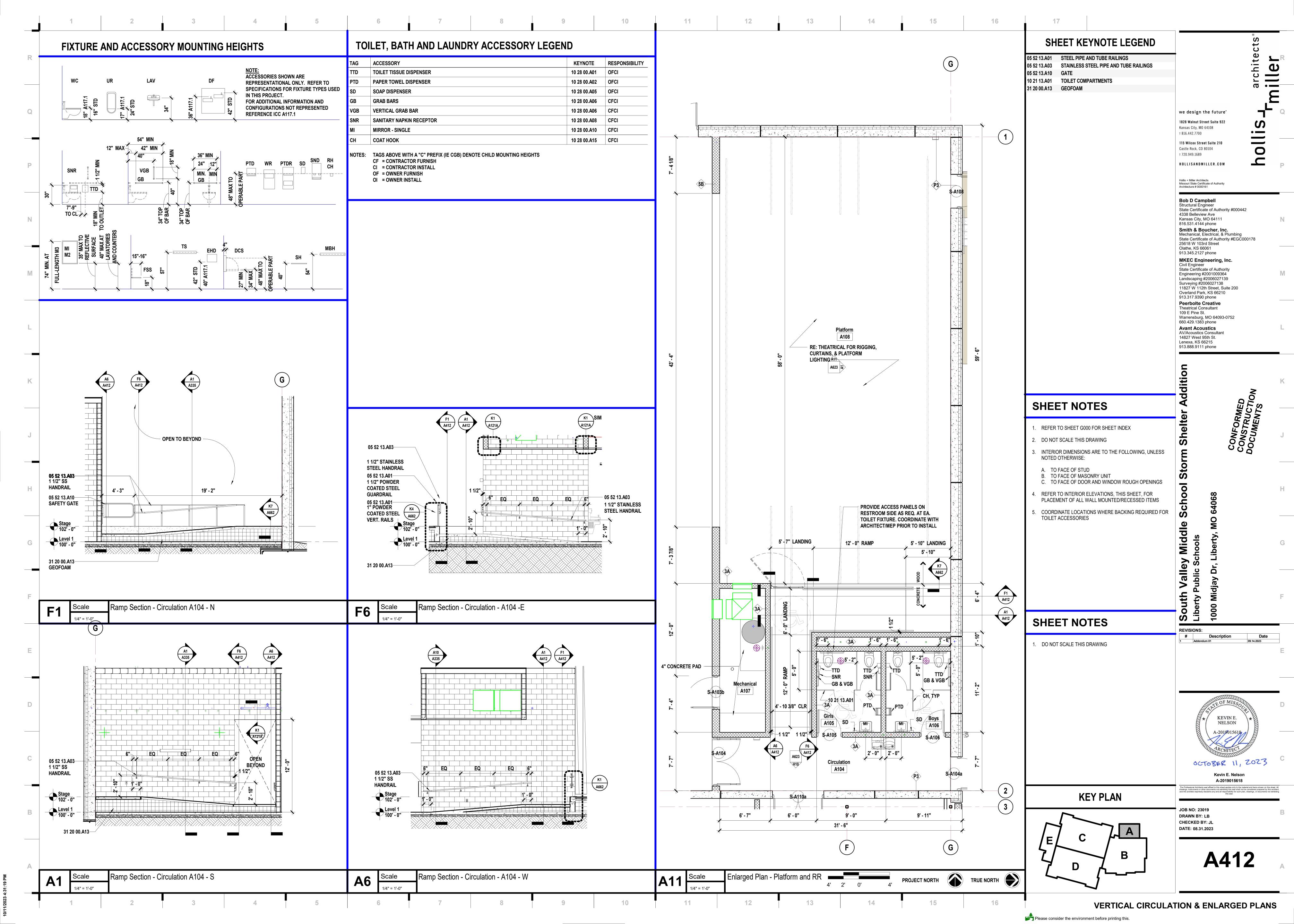
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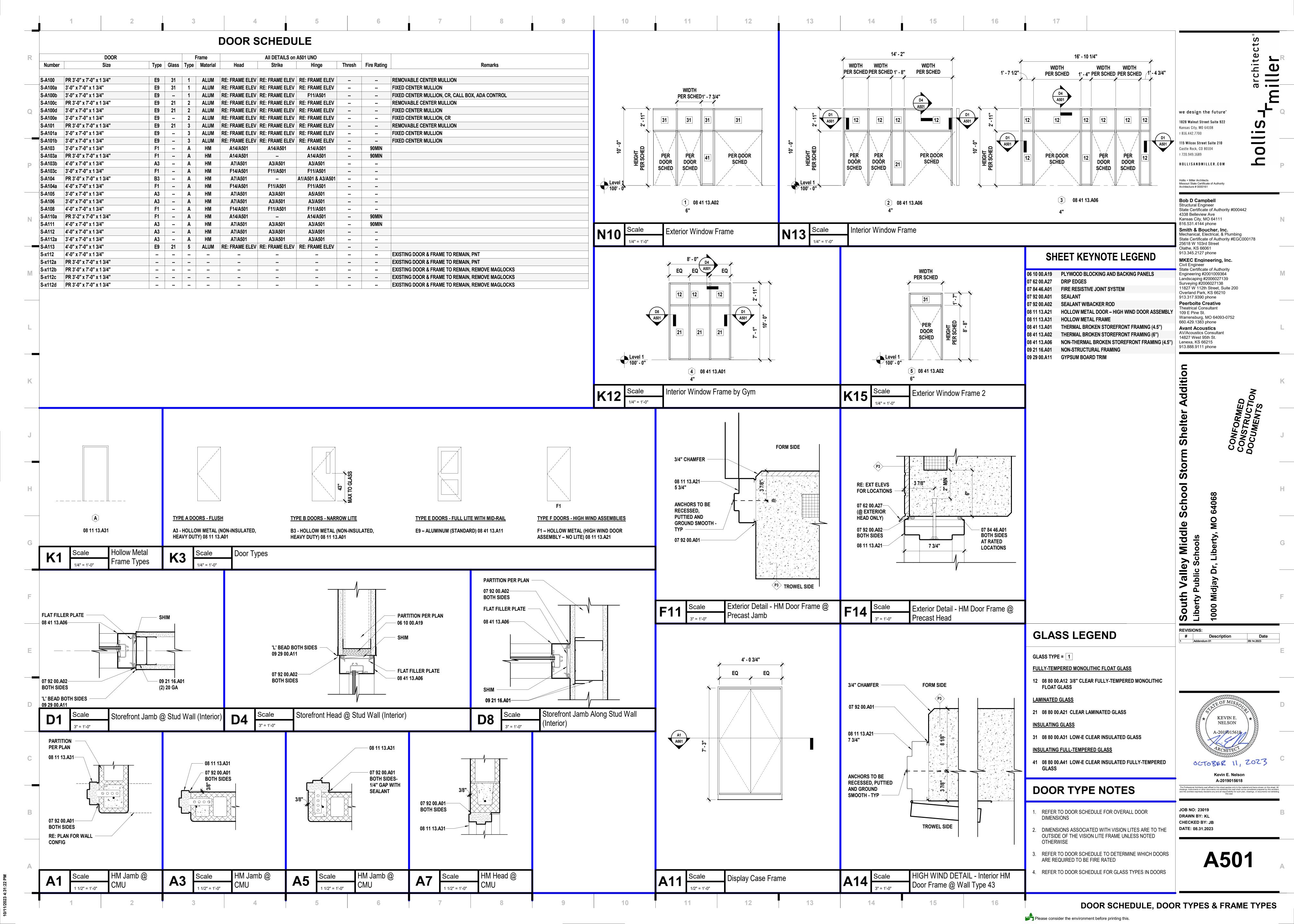
EXTERIOR DETAILS

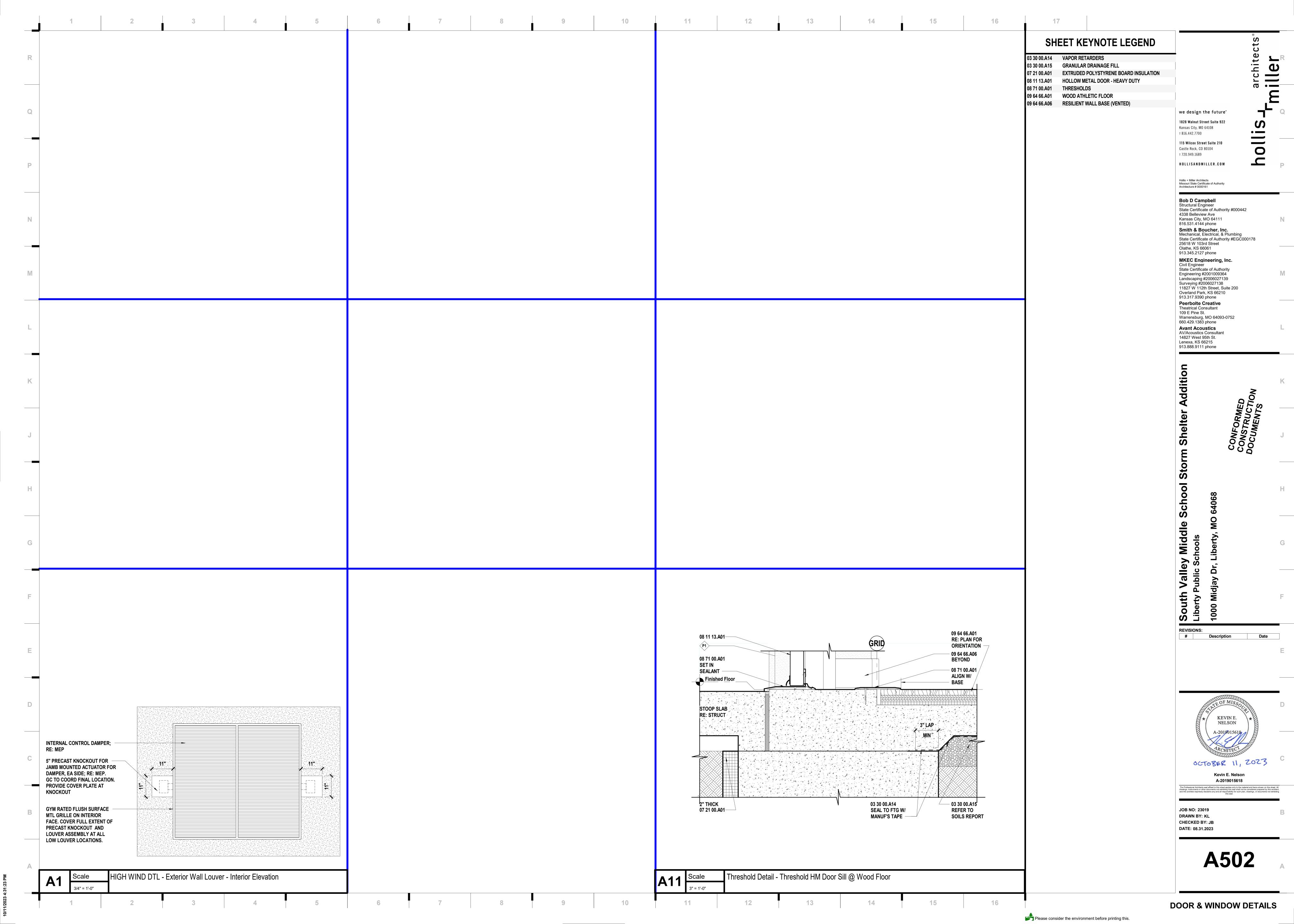


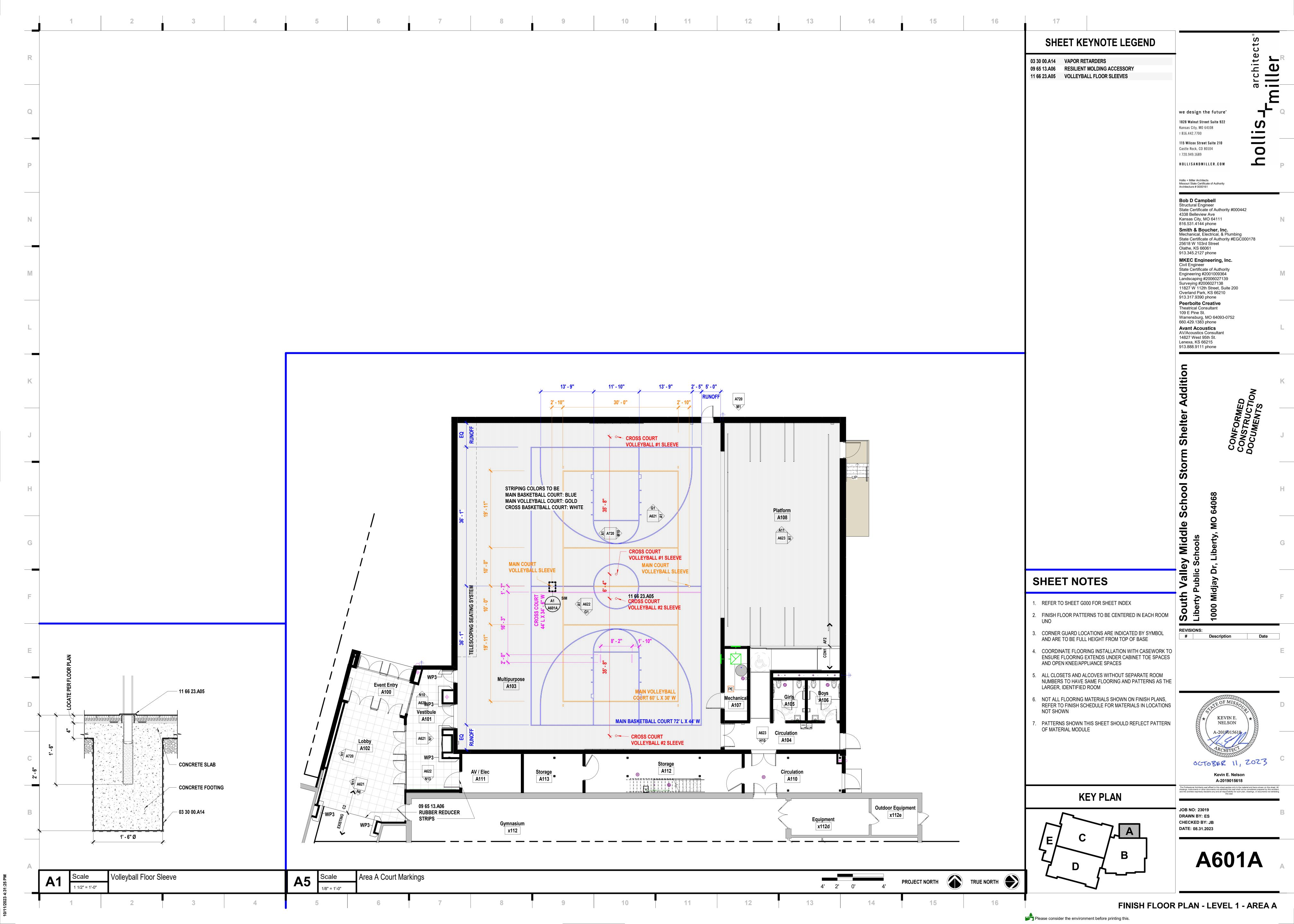
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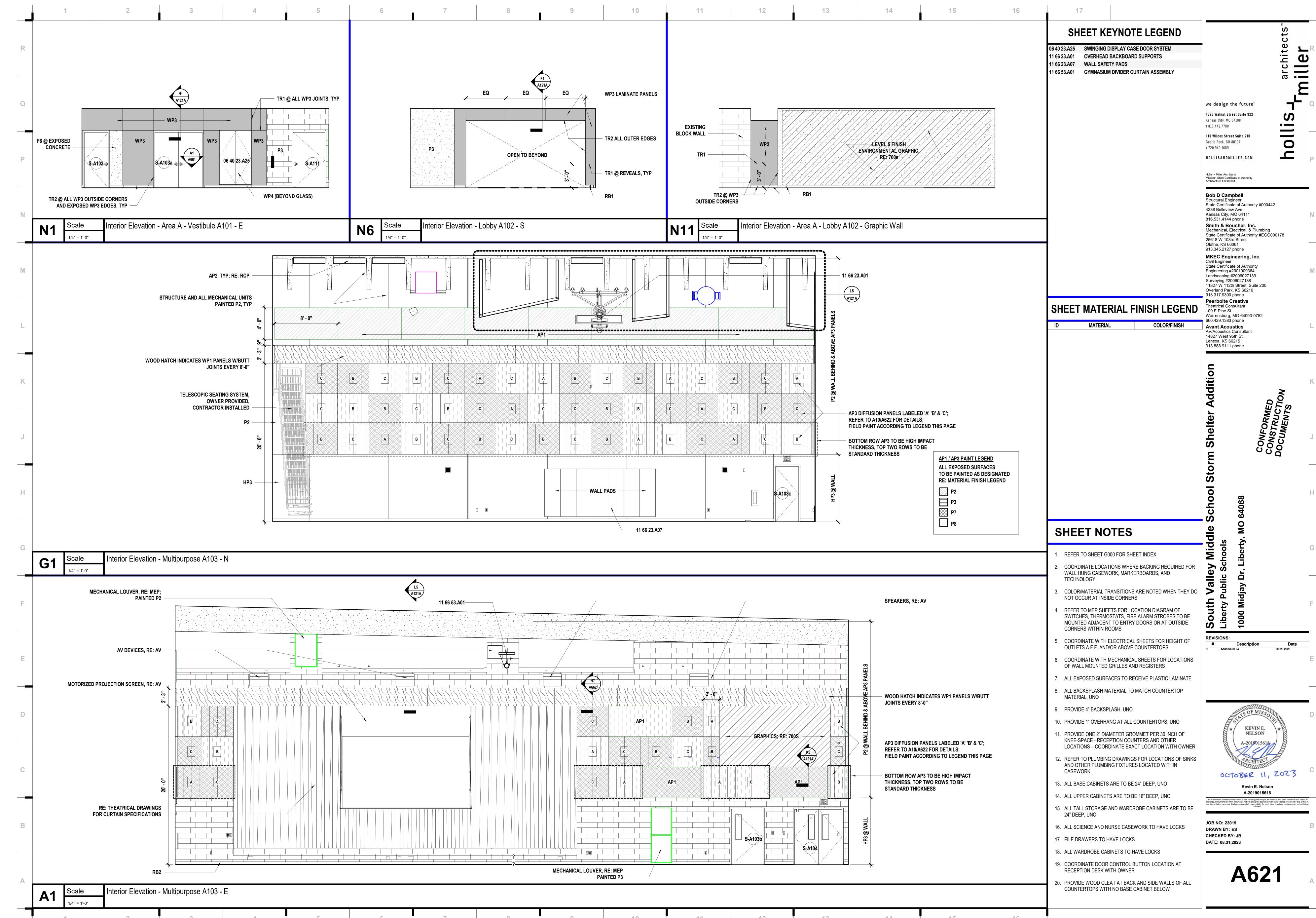




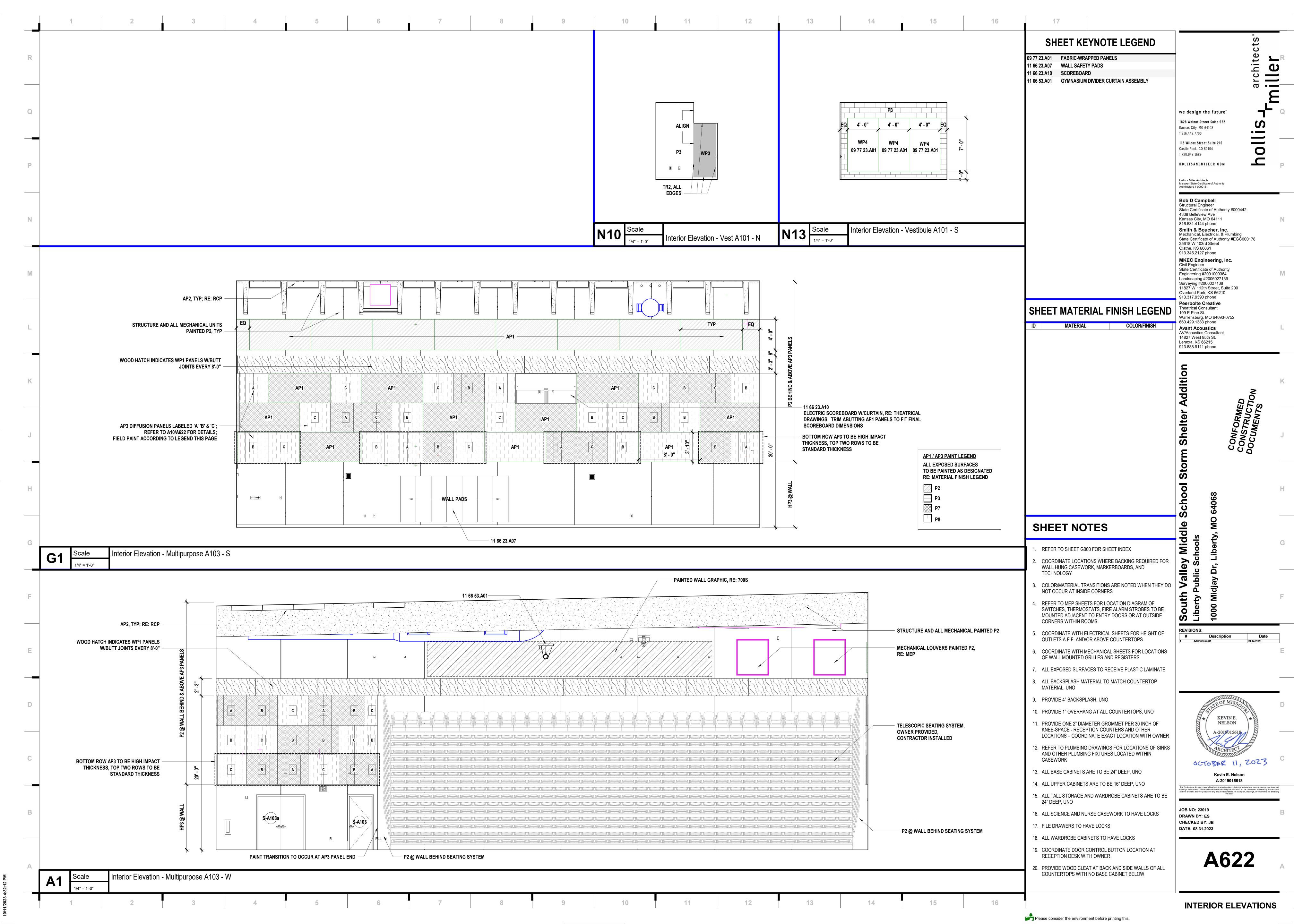


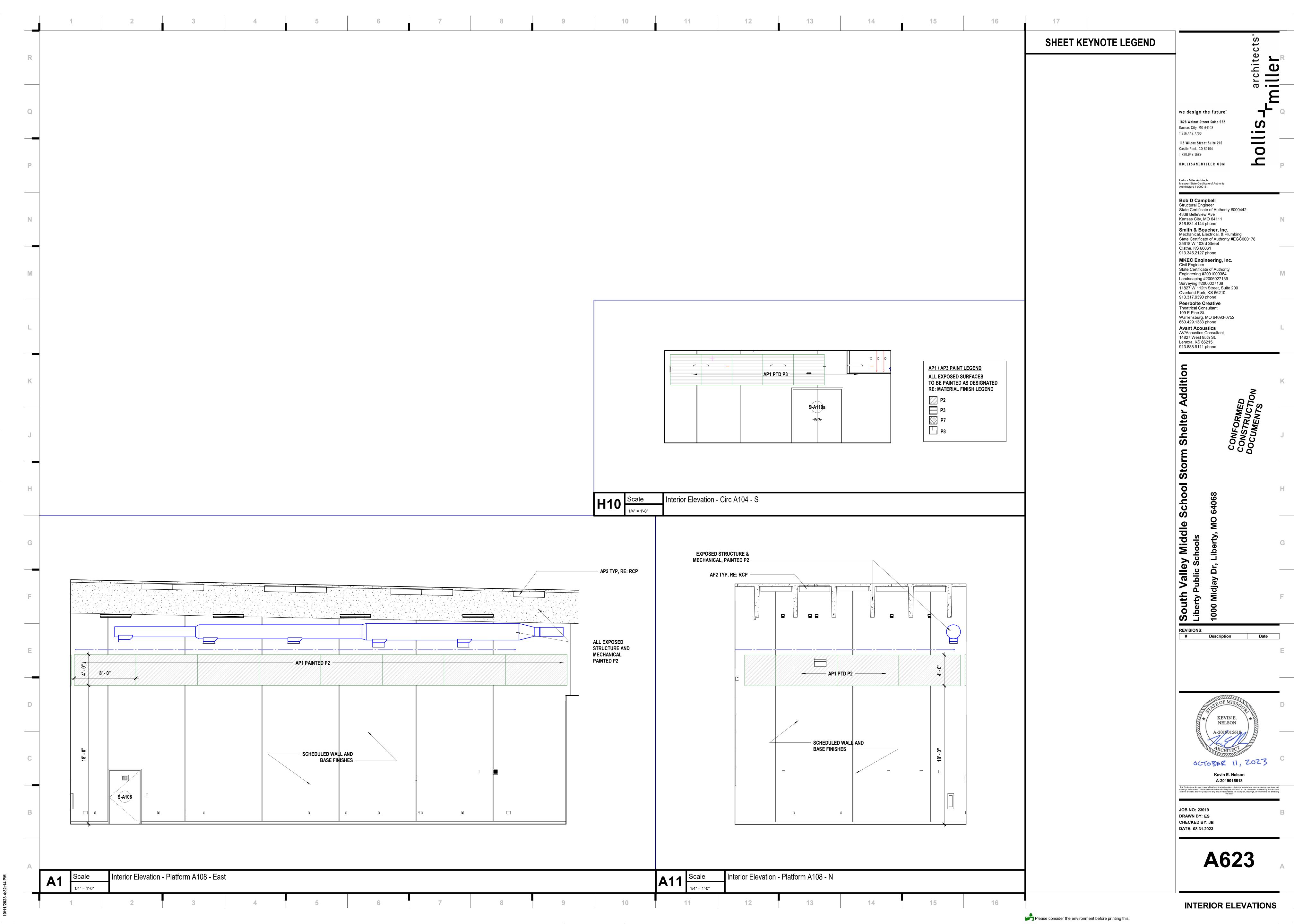


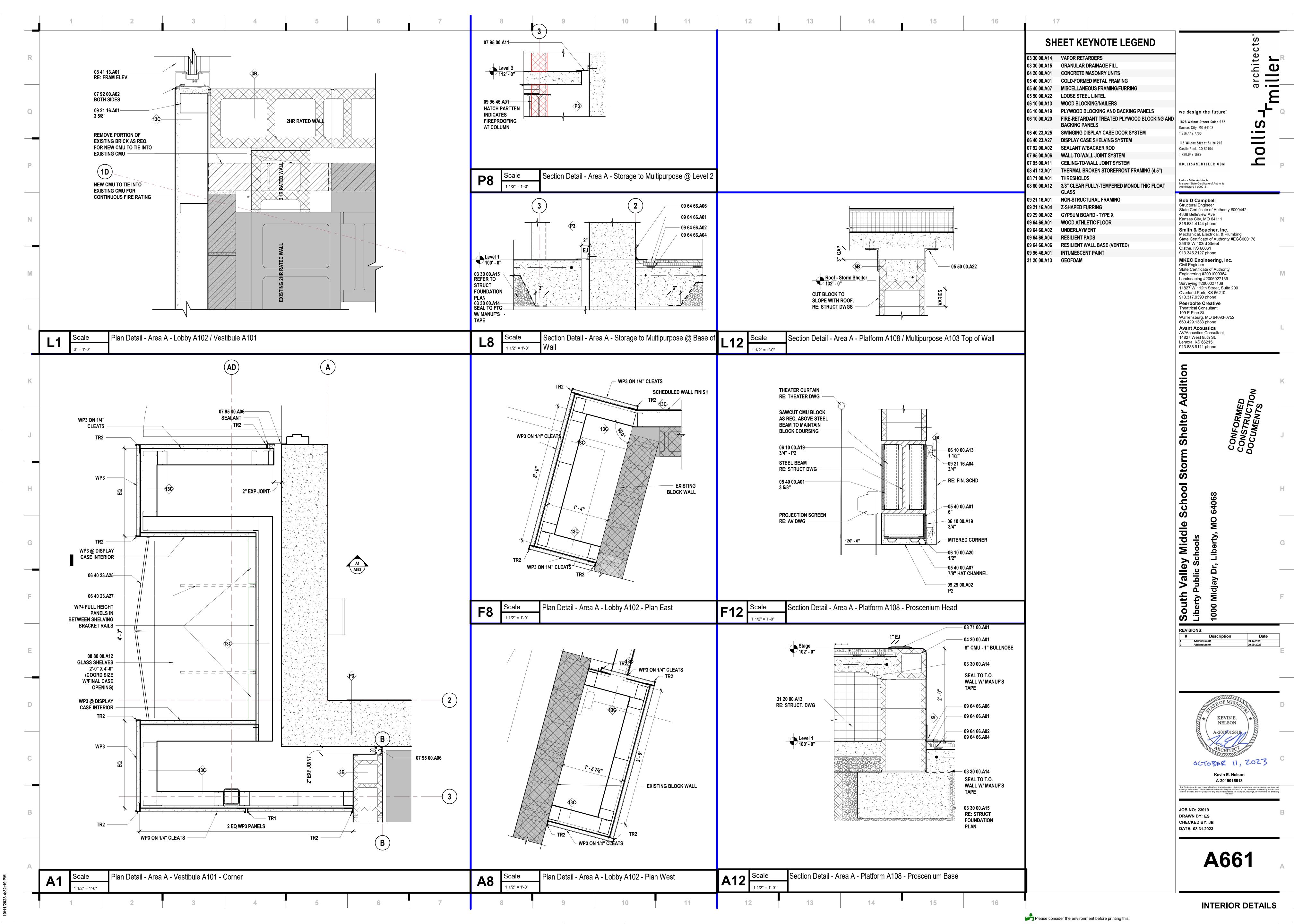


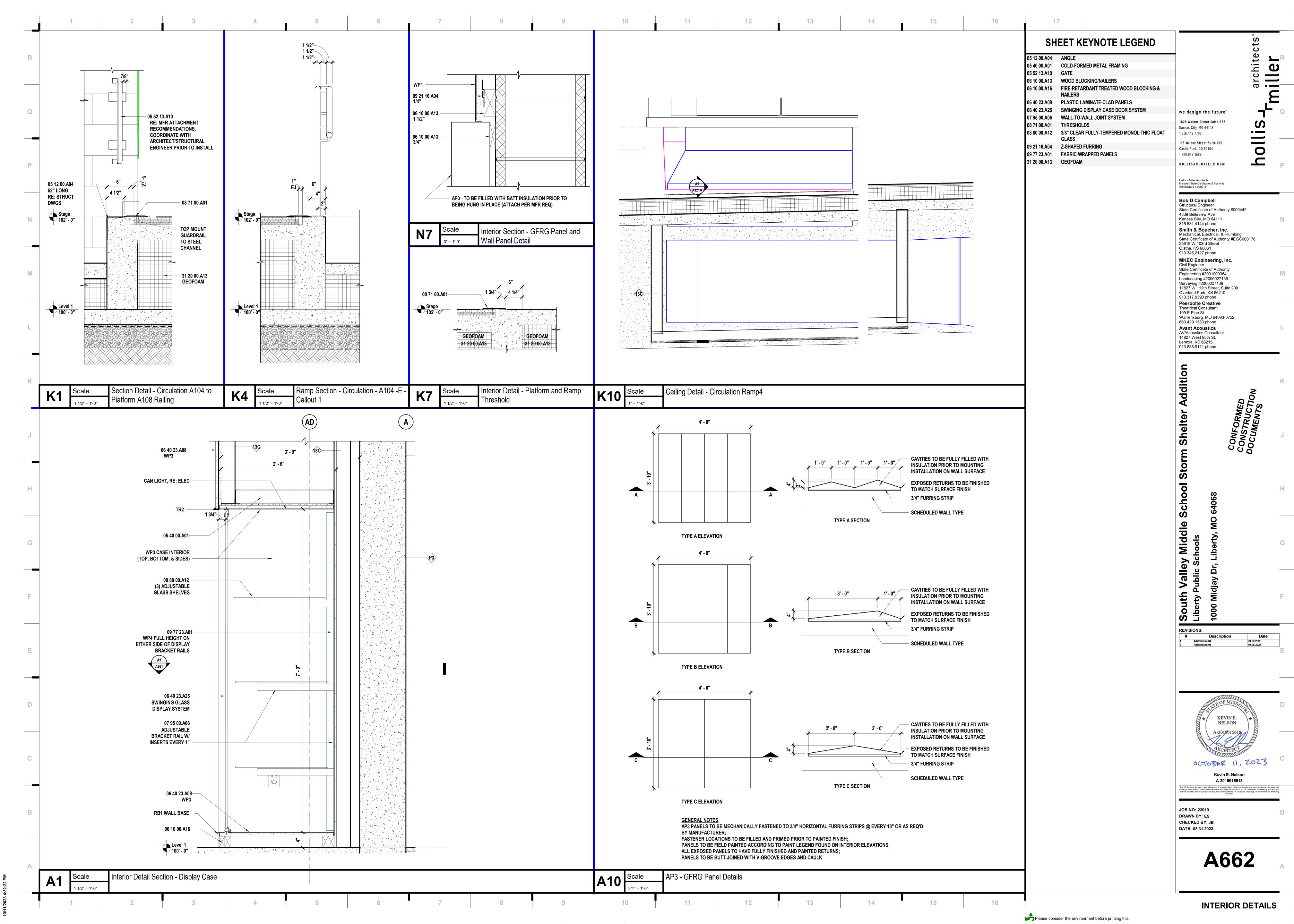


INTERIOR ELEVATIONS









| MATERIAL | | | MATERIA | | _ | I | |
|--|-------------------|--|--|--|--|--|--|
| 844 TERIAL | ı | | | L FINISH LEGEND | | | |
| MATERIAL | ID ID | KEYNOTE | MANUFACTURER | STYLE/MODEL NO | COLOR/FINISH | COMMENTS | |
| hletic Flooring (Wood) | AF1 | 09 64 66.A01 | Robbins Wood Court Flooring | Northern Hard Maple | | Re: Specification for full flooring system | |
| rdboard Stage Flooring | AF2 | 09 64 66.A12 | DPI Decorative Panels International | 1/4" Tempered Premium Hardboard | Black | Re: Specification for full flooring system | |
| oustical Wall Panels | AP1 | 09 84 33.A01 | Armstrong | Tectum Finale Wall Panels | Re: Elevations | | |
| oustical Ceiling Panels | AP2 | 09 84 36.A01 | Armstrong | Tectum Finale Ceiling Panels | P2 | Re: RCP for sizes and location | |
| oustical Panels | AP3 | 09 84 33.A15 | Formglas | GFRG diffusion panels; custom shapes and sizes | | Re: Specification and details for additional inf | |
| rpet | C2 | 09 68 13.A01 | Interface | Step Repeat; SR899 | Iron 104940 | Quarter-turn installation | |
| iling | CLG1 | 09 51 13.A01 | Armstrong | Fine Fissured High NRC #1755, Square Lay-in, 24 x 48 x 7/8" | White | Classrooms | |
| iling | CLG2 | 09 51 13.A01 | Armstrong | Fine Fissured High NRC #1754, Square Lay-in, 24 x 24 x 7/8" | White | Classrooms | |
| iling | CLG3 | 09 51 13.A01 | Armstrong | Ultima Square Lay-in Fine Texture #1910, 24 x 24 x 3/4" | White | Lobby, Corridors | |
| iling | CLG4 | 09 51 13.A01 | Armstrong | Kitchen Zone Sqaure Lay-in #672, 24 x 48 x 5/8" | White | | |
| iling | CLG5 | 09 51 13.A01 | Armstrong | Kitchen Zone Sqaure Lay-in #673, 24 x 24 x 5/8" | White | | |
| iling | CLG5 | 06 40 23.A05 | Re: Specification | 1/2" Painted MDF Panels w/6" batt insulation on | P2 | Multipurpose Room, Re: Ceiling Details | |
| 9 | 02.00 | VV 4V 20.AVV | ite. opeomoudon | structural metal studs | | manaparpose recom, recoming betans | |
| ncrete Finish | CON1 | 03 30 00.A01 | Re: Specification | Sealed Concrete | | | |
| gh Performance Coating | HP1 | 09 96 00 | Sherwin Williams | | SW 7011 Natural Choice | | |
| gh Performance Coating | HP2 | 09 96 00 | Sherwin Williams | | SW 6076 Cyberspace | | |
| gh Performance Coating | HP3 | 09 96 00 | Sherwin Williams | | SW 9170 A cier | | |
| tal Trim Piece | MTL1 | 06 40 23.A24 | Re: Specification | Edge protection for CLG6 edges, Re: Specification | | | |
| int | P1 | 09 90 00 | Sherwin Williams | | SW 7011 Natural Choice | | |
| int | P2 | 09 90 00 | Sherwin Williams | | SW 7076 Cyberspace | | |
| int | P3 | 09 90 00 | Sherwin Williams | | SW 9170 A cier | | |
| int | P4 | 09 90 00 | Sherwin Williams | | SW 6966 Blueblood | DMS Blue 1 | |
| int : | P5 | 09 90 00 | Sherwin Williams | | SW 6524 Commodore | DMS Blue 2 | |
| int : | P6 | 09 90 00 | Sherwin Williams | | SW 7018 Dovetail | 0.000 D1 4 | |
| int : | P7 | 09 90 00 | Sherwin Williams | | SW 6967 Frank Blue | SVMS Blue 1 | |
| int | P8 | 09 90 00 | Sherwin Williams | 41 D | SW 6811 Honorable Blue | SVMS Blue 2 | |
| silient Base & Accessories | RB1 | 09 65 13.A01 | Tarkett Johnsonite | 4" Base | Black | | |
| silient Base & Accessories | RB2 | 09 94 66.A06 | Tarkett Johnsonite | 4" Base (Vented Cove) | Black | | |
| llwork Trim llwork Trim | TR1 TR2 | 06 40 23.A24 06 40 23.A24 | Fry Reglet Fry Reglet | Millwork Channel with Return Key Millwork L Angle with Return Key | | | |
| | WP1 | | | <u> </u> | Walnut Heights 7965K-12; Softgrain | | |
| all Paneling | VVP1 | 06 40 23.A08 | Wilsonart | Plastic Laminate Clad Paneling | finish | | |
| U.B. P. | | 06 40 22 400 | Pionite | Plastic Laminate Clad Paneling | Royal Blue SB009; Suede finish | DMS | |
| ali Paneling | WP2 | 100 40 ZJ.AU8 | 1 | | | | |
| | WP2 WP3 | 06 40 23.A08 06 40 23.A08 | Pionite | Plastic Laminate Clad Paneling | <u> </u> | SVMS | |
| all Paneling | WP2 WP3 WP4 | 06 40 23.A08 06 40 23.A08 09 77 23.A01 | Pionite Designtex | Plastic Laminate Clad Paneling "Rocket" | Navy Blue SB007; Suede finish Osprey 2693-804 | SVMS | |
| Yall Paneling Abric Wrapped Wall Panel | WP3 | 06 40 23.A08 | Designtex | "Rocket" | Navy Blue SB007; Suede finish | SVMS | |
| all Paneling ubric Wrapped Wall Panel | WP3 | 06 40 23.A08 | ROO | - | Navy Blue SB007; Suede finish | Finish Remarks | |
| all Paneling bric Wrapped Wall Panel NO | WP4 WP4 | 06 40 23.A08 09 77 23.A01 | POO FLOOR ish Base North | "Rocket" M FINISH SCHEDULE WALLS East South West Finish | Navy Blue SB007; Suede finish | | |
| NO Event Entry | WP4 WP4 | 06 40 23.A08 09 77 23.A01 | POO FLOOR ish Base North RB1 P3 | "Rocket" M FINISH SCHEDULE WALLS East South West Finish | Navy Blue SB007; Suede finish | | |
| NO NO Event Entry 100 Vestibule | WP4 WP4 | 06 40 23.A08 09 77 23.A01 | POO FLOOR ish Base North RB1 P3 RB1 P3 RB1 P3 | "Rocket" The second of the se | Navy Blue SB007; Suede finish | | |
| NO NO Event Entry 101 Vestibule 102 Lobby | WP4 WP4 | 06 40 23.A08 09 77 23.A01 | POO FLOOR ish Base North RB1 P3 | "Rocket" | Navy Blue SB007; Suede finish | Finish Remarks | |
| NO NO NO Second Seco | WP4 WP4 | 06 40 23.A08 09 77 23.A01 | Designtex | "Rocket" | Navy Blue SB007; Suede finish Osprey 2693-804 | Finish Remarks | |
| NO NO Event Entry 101 102 Lobby 103 Multipurpose 104 Circulation | WP4 WP4 | 06 40 23.A08 09 77 23.A01 | Designtex | "Rocket" | Navy Blue SB007; Suede finish Osprey 2693-804 | Finish Remarks | |
| NO NO Event Entry 101 102 103 Multipurpose 104 Circulation 105 Girls | WP4 WP4 | 06 40 23.A08 09 77 23.A01 Fir | Designtex | "Rocket" | Navy Blue SB007; Suede finish Osprey 2693-804 | Finish Remarks | |
| NO NO Event Entry 101 Vestibule 102 Lobby 103 Multipurpose 104 Circulation 105 Girls 106 Boys | WP4 WP4 | 06 40 23.A08 09 77 23.A01 Fir | Designtex | "Rocket" | Navy Blue SB007; Suede finish Osprey 2693-804 | Finish Remarks | |
| NO NO Event Entry 101 Vestibule 102 Lobby 103 Multipurpose 104 Circulation 105 Girls 106 Boys 107 Mechanical | WP4 WP4 | 06 40 23.A08 09 77 23.A01 Fir | Designtex | "Rocket" | Navy Blue SB007; Suede finish Osprey 2693-804 | Finish Remarks MECHANICAL PAINTED P2 | |
| NO NO Event Entry Vestibule Lobby 103 Multipurpose 104 Circulation 105 Girls 106 Boys 107 Mechanical 108 Platform | WP4 WP4 | 06 40 23.A08 09 77 23.A01 Fir | Designtex | "Rocket" | Navy Blue SB007; Suede finish Osprey 2693-804 AP2 PANELS, STRUCTURE & EXPOSED | Finish Remarks MECHANICAL PAINTED P2 | |
| NO NO Event Entry 101 Vestibule 102 Lobby 103 Multipurpose 104 Circulation 105 Girls 106 Boys 107 Mechanical 108 Platform | WP4 WP4 | 06 40 23.A08 09 77 23.A01 Fir | Designtex | "Rocket" | Navy Blue SB007; Suede finish Osprey 2693-804 AP2 PANELS, STRUCTURE & EXPOSED | Finish Remarks MECHANICAL PAINTED P2 | |
| NO NO Stephan Event Entry 100 Event Entry 101 Vestibule 102 Lobby 103 Multipurpose 104 Circulation 105 Girls 106 Boys 107 Mechanical 1108 Platform 110 Circulation | WP4 WP4 | 06 40 23.A08 09 77 23.A01 Fin CO | Designtex | "Rocket" | Navy Blue SB007; Suede finish Osprey 2693-804 AP2 PANELS, STRUCTURE & EXPOSED | Finish Remarks MECHANICAL PAINTED P2 | |

| sh | Base | North | East | South | West | Finish | Finish Remarks |
|----|------|----------|----------|----------|----------|--------|---|
| | | | | | | | |
| | RB1 | P3 | P3 | P3 | P3 | CLG3 | |
| | RB1 | P3 | WP3 | P3 | P3 | CLG3 | |
| | RB1 | P3 | RE A700s | P3 | P3 | CLG3 | |
| | RB2 | RE: ELEV | RE: ELEV | RE: ELEV | RE: ELEV | CLG6 | AP2 PANELS, STRUCTURE & EXPOSED MECHANICAL PAINTED P2 |
| 11 | RB1 | HP3 | HP3 | HP3 | HP3 | CLG1 | |
| 11 | RB1 | HP1 | HP1 | HP1 | HP1 | CLG1 | |
| 11 | RB1 | HP1 | HP1 | HP1 | HP1 | CLG1 | |
| 11 | RB1 | P1 | P1 | P1 | P1 | | |
| _ | | | | | | | |

GENERAL FINISH NOTES

- 2. DO NOT PAINT NATURAL 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, UNO.
- 5. PAINT ALL EXPOSED CEILINGS DESIGNATED AS 'OTS' 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, UNO.
- 7. PAINT ALL INTERIOR HOLLOW METAL DOORS AND FRAMES COLOR P6, UNO.
- 8. PAINT OR FINISH THE FOLLOWING ITEMS TO MATCH ADJACENT PAINT OR FINISH:
 - a. ELECTRICAL PANELS IN FINISHED ROOMS
 - b. GRILLES, LOUVERS ETC. PRIMED OR SPECIFIED TO BE PAINTED
 - c. UNFINISHED SPEAKER OUTLET GRILLES d. VISIBLE PORTIONS OF DUCTWORK AND MECH EQUIPMENT BEHIND VENTS, GRILLES AND DIFFUSERS



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Bob D Campbell Structural Engineer State Certificate of Authority #000442 4338 Belleview Ave Kansas City, MO 64111 816.531.4144 phone Smith & Boucher, Inc.
Mechanical, Electrical, & Plumbing State Certificate of Authority #EGC000178 25618 W 103rd Street Olathe, KS 66061

913.345.2127 phone MKEC Engineering, Inc. Civil Engineer State Certificate of Authority Engineering #2001009364

Landscaping #2006027139 Surveying #2006027138 11827 W 112th Street, Suite 200 Overland Park, KS 66210 913.317.9390 phone Peerbolte Creative Theatrical Consultant 109 E Pine St. Warrensburg, MO 64093-0752 660.429.1383 phone **Avant Acoustics** AV/Acoustics Consultant 14827 West 95th St. Lenexa, KS 66215 913.888.9111 phone

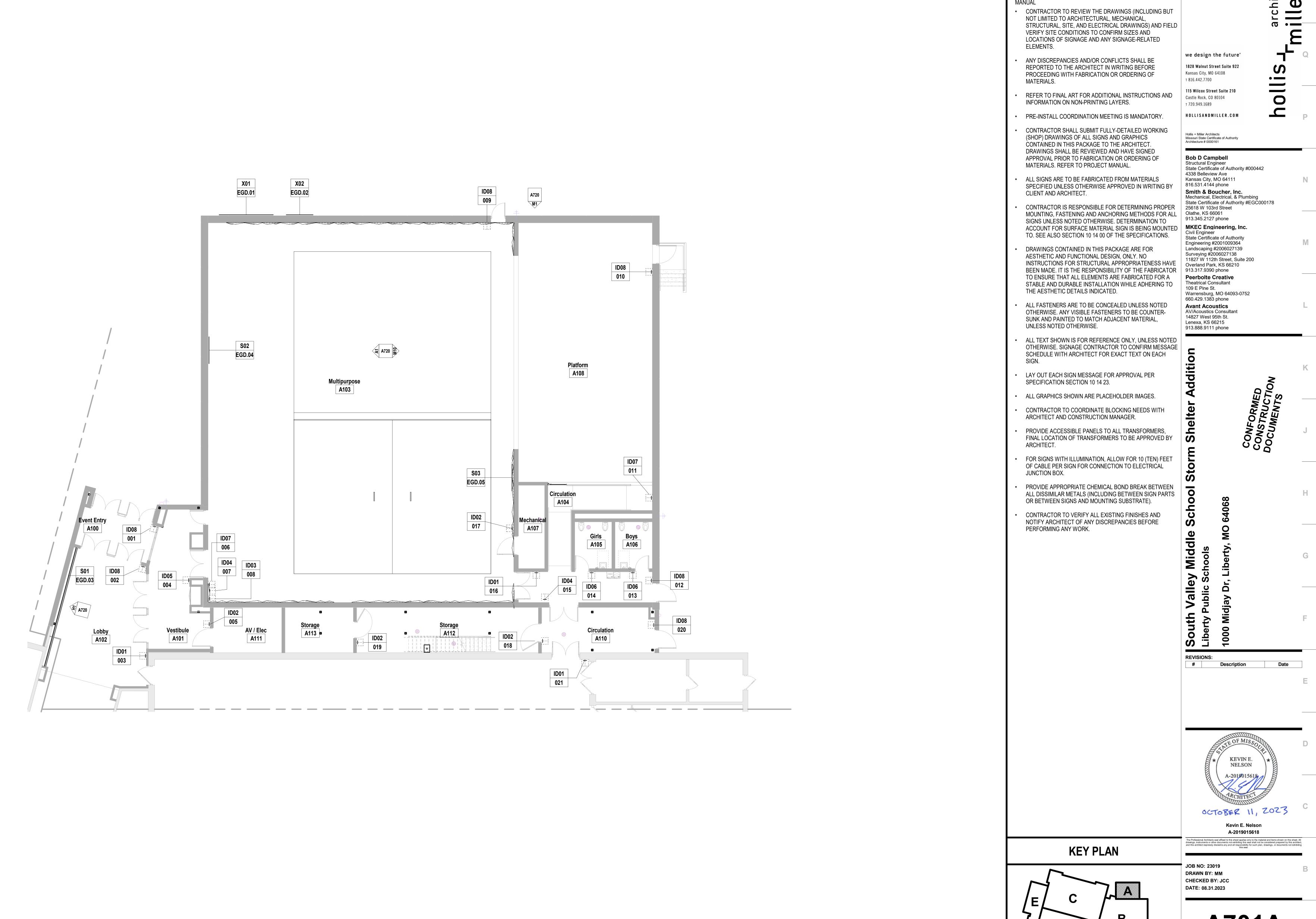
REVISIONS:

Description

Kevin E. Nelson

A-2019015618

JOB NO: 23019 DRAWN BY: ES CHECKED BY: JB DATE: 08.31.2023



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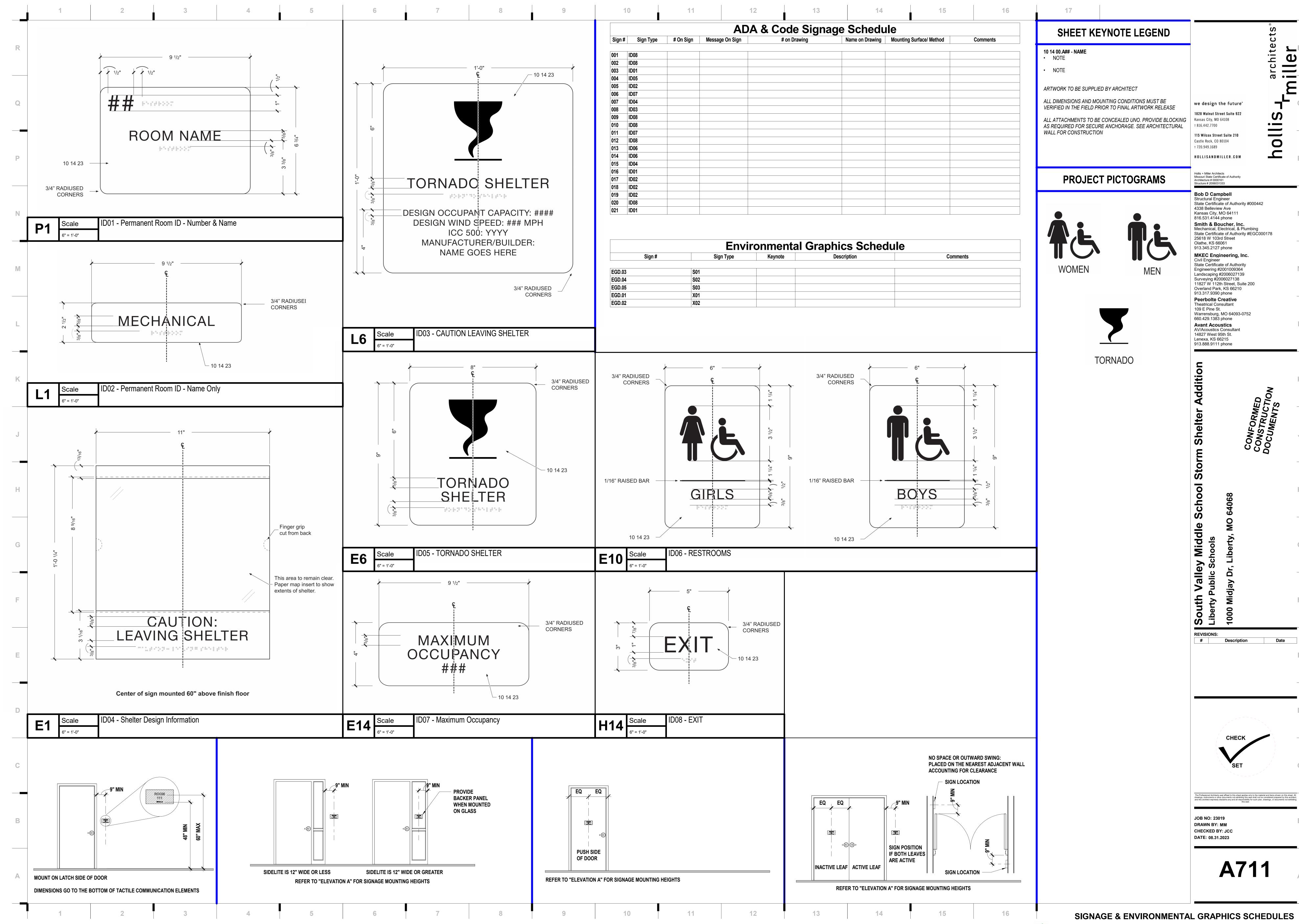
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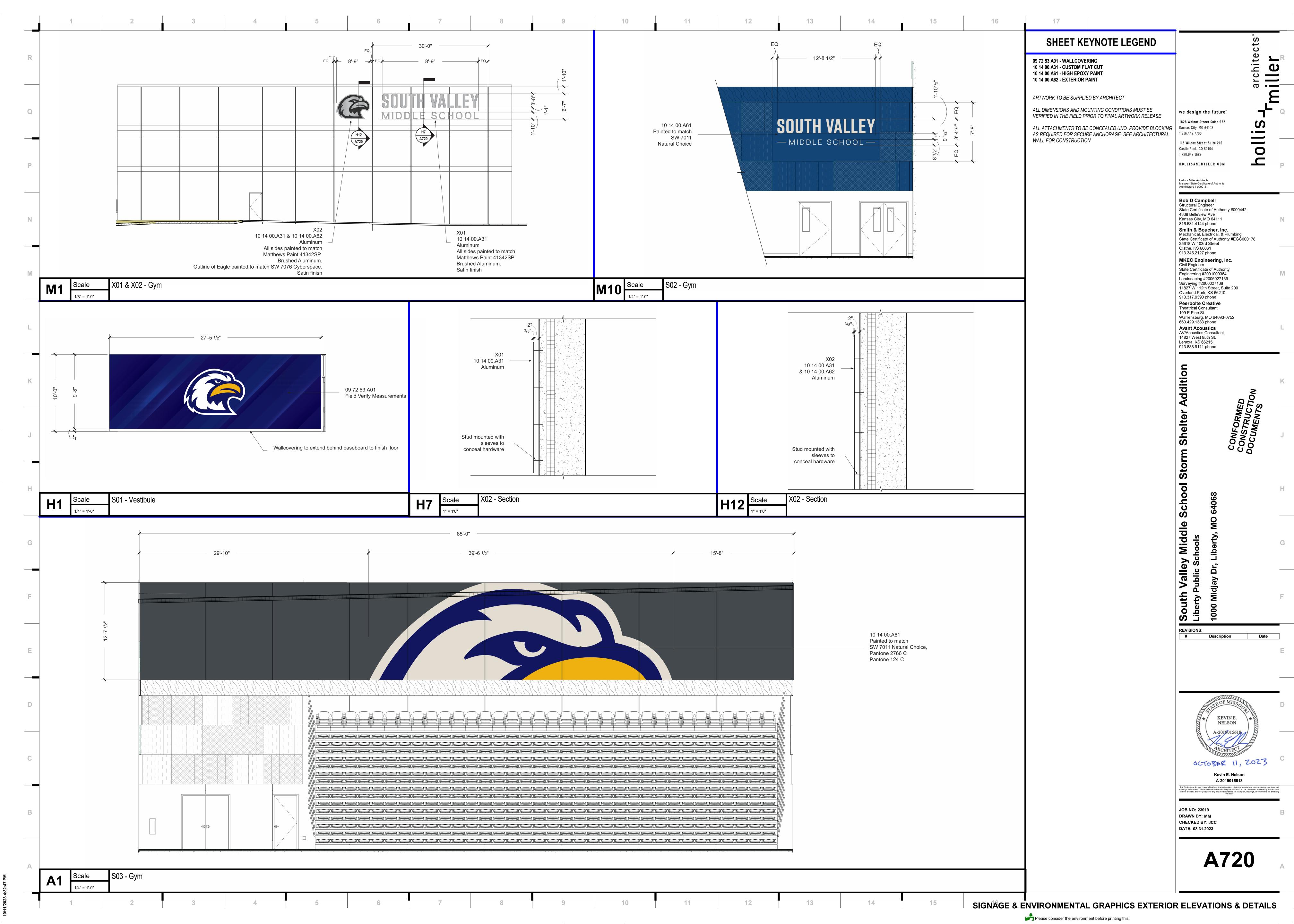
THESE GENERAL NOTES ARE SUPPLEMENTAL TO THE PROJECT



A701A

Level 1





General Information

Q

- A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work
- B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction
- C. All design and construction work for this project shall conform to the requirements of the following governing design codes: International Building Code (IBC 2018) as amended by the city of Liberty, MO. 2. Minimum Design Loads for Buildings and Other Structures (ASCE7-6) 3. Specification for Structural Steel Buildings (AISC 360-16)
- Member Design Basis is Allowable Stress Design (ASD) Connection Design Basis is Allowable Stress Design (ASD)
- 4. Structural Welding Code (AWS D1.3-98) 5. Building Code Requirements for Structural Concrete (ACI 318-14) 6. Building Code Requirements for Masonry Structures (ACI 530-11/TMS 402-11)

7. North American Specification for the Design of Cold-Formed Steel Structural

Members (AISI S100-07/S1-1) D. These drawings are for this specific project and no other use is authorized.

2. Structural Load Design Criteria

- A. Floor Live = 100psf (An allowance of 15psf has been made for partitions as a uniformly distributed live load where the live load stated above is 80psf or less) Floor Dead = 55psf
- B. Roof Live = 30psf; Roof Collateral Dead = 20psf . Snow: Pg = 20psf, Pf =14psf, Is = 1.0, Ce = 1.0, Ct = 1.0, Drift per ASCE/SEI 7 D. Lateral Loads:
- 1.) Wind: V = 115 mph, Exposure B Occupancy [Risk] Category II, lw=1.0 GCpi=+/-0.18 Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7. Tabulated pressures
- shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable 2.) Seismic: Ss = 0.094, S1 = 0.069 Occupancy [Risk] Category II, le=1.0, Site Classification C; Sds = 0.082; Sd1 = 0.069 Seismic Design Category B Basic Seismic Force-resisting System Ordinary Reinforced Masonry Shear Walls Equivalent Lateral Force Procedure
- R = 2; Omega = 2½; Cd=1¾ E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the International Building Code

3. Concrete

- A. All concrete for foundations (walls, grade beams, footings and piers) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump. B. All concrete for interior flatwork (without floor covering) shall develop minimum
- ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only). C. All concrete for interior flatwork (with floor covering) shall develop minimum
- ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic vard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
- D. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6%
- +/- 1% air entrainment, and a maximum of 4 inches of slump. E. All concrete for columns shall develop a minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 560 pounds of cement shall be
- used per cubic yard of concrete regardless of strengths obtained, not over 5 gallons of water per 100 pounds of cement and not over 4 inches of slump. F. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for
- improved workability. G. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced H. The use of fly ash is NOT permitted.
- I. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
- J. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-
- draining granular material as prescribed by the project soils report. K. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
- L. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1. M. Contractor shall verify that all concrete inserts, reinforcing and embedded items
- are correctly located and rigidly secured prior to concrete placement. N. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at
- construction joints for shear transfer. O. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel

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- A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform
- to the requirements of ASTM A185. B. Clear coverage of concrete over reinforcing steel shall be as follows:
- . Concrete placed against earth: 3" Formed concrete against earth: 2
- 4. Beams or Columns: 1-1/2"
- All coverage shall be nominal bar diameter minimum.
- C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise). D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0"
- in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars. E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters
- (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise. F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #
- 5 instead of 2 #5, respectively. G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum
- accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet. I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless

- A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade C. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual. B. All welding shall conform to the recommendations of the AWS.
- C. All exterior steel and connections, and brick relief angles shall be hot-dip galvanized. D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, Vn/Omega, shown in the maximum total uniform load tables, whichever is greater; and, shall account for eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Additional connection elements may not be specifically shown in the conceptual details in this set but may be required by the final connection design, such as stiffener plates, doubler plates, supplement/reinforcing plates or other connection material. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall
- E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. At braced frames washers shall be welded all around to the column base plate with 3/16" fillet weld. F. Design, fabrication and erection of all open-web bar joists shall comply with the recommendations of the Steel Joist Institute (SJI). Joists shall be designed to support
- loads given in the standard load tables of SJI Specs and Tables plus an additional point load of 200 lbs. on the top or bottom chord at any location without additional web G. All K-series joists shall bear 2-1/2" minimum on structural steel beams and be welded to
- the beams with 1 1/2" of 1/8" fillet weld each side (minimum). H. All K-series joists bearing on masonry walls shall have 6" x 3/8" x 6" bearing plates set in bond beams. Bearing plates shall be located not more than 1/2" from the face of the wall on the bearing side. Joists shall bear 4" minimum on bearing plates and be welded to beams or bearing plates with 2-1/2" of 1/8" fillet weld each side (minimum). I. Steel joists shall be designed for 20psf net uplift resulting from wind loading as
- measured 12ft. from a building corner, 15psf net uplift as measured 8ft. from the building edge, and 10psf otherwise. J. All openings in steel joist roof to have 3x3x1/4 angle frame set between joists. Support mechanical equipment with 4x4x5/16 angles laid between joists framed to 4x4x5/16 angles (length equals mechanical unit dimension plus distance each end to next panel point) laid parallel to and welded to top and/or bottom cord of joists to distribute load to joist panel points.
- K. All steel joists shall have a midspan camber approximately equal to that recommended by the Steel Joist Institute Specifications. Design and installation of steel decking shall comply with the recommendations of the

Steel Deck Institute (SDI). All decking shall be galvanized unless noted otherwise.

6. Post Installed Anchors

- A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
- B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions. Adhesive anchors used in cracked and uncracked concrete shall have been tested
- and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions. D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per
- the anchor manufacturer's written instructions. E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor
- manufacturer's written instructions. F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

7. Foundations

- A. The soil investigation was prepared by Kruger Technologies, Inc., the report number is 223117G and the telephone number is 913-498-1114. B. Spread footings, grade beams, and retaining walls are designed to bear on engineered fill or undisturbed soil capable of safely sustaining 2,000 psf.
- C. Retaining walls are designed for an active lateral load of 40 pcf equivalent fluid pressure. D. Contractor shall provide for dewatering at excavations from either surface water or
- E. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense. F. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled.
- G. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

8. Concrete Masonry Units

- A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 2650 psi and laid up using type N mortar such that f'm equals 2000 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, laid using type "S" mortar and
- B. The contractor shall provide adequate temporary bracing for all masonry walls during construction. C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder
- or truss) per architectural drawings and specifications (16" maximum vertical spacing). D. Cavity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by the
- architectural drawings. E. Concrete block shall be reinforced as follows in 6", 8", 10", and 12" walls: 1. Vertical reinforcing shall be a minimum of 1 - #4 bar in 6" and 8" walls and 2 - #4 bars in 10" and 12" walls at 4'-0" on center, at each corner, at each door and window jamb, each side of control joints and in the end void of each length of wall.
- Lap splices for masonry vertical reinforcing shall be 48 bar diameters, 24" 2. Horizontal reinforcing: A. Horizontal joint reinforcing as noted above. B. Continuous horizontal bars shall be included per section or detail in bond beam
- or optional running bond beam where noted. Where bond beams are continuous at corners of walls, supply corner bars matching size of horizontal bars (minimum 2'-0" or 40 bar diameters in each direction). F. Grout, where noted above, shall have a minimum design ultimate compressive strength
- of 2500 psi at 28 day test and 3/8" maximum aggregate size. G. Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the wall with 1" air space or compressible material and support per architectural detail.
- H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints.
- I. Lintels over all openings up to 8'-0" wide in new and existing masonry walls not otherwise covered shall be one 6x3 1/2x5/16 angle for each 4" width of masonry. All exterior lintels to be galvanized. J. Walls shall be anchored top and bottom by dowels matching wall vertical
- reinforcing(unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings.

- A. All load bearing, light gage structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans, minimum.
- B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi.
- C. All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Structural Members." D. All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted
- Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted. E. Tracks shall be securely anchored to floor and overhead members. Special

F. Prior to fabrication and/or erection, the contractor shall submit shop drawings

complete with detail of erection, fabrication, attachments, anchorages, lintels

anchorage requirements required for wind bracing shall be as shown on the plans.

etc., for review by the architect/engineer. G. Shipment, handling, and erection of trusses shall be by experience, qualified persons and shall be performed in a manner so as not to endanger life or property. Apparent truss damage shall be reported to the truss manufacturer for evaluation prior to erection. Cutting or alteration of trusses is not permitted without written authorization from the truss manufacturer. Contractor shall coordinate truss layout for openings and penetrations required by other trades including for plumbing, HVAC, electrical, roof access hatches, chases, etc.

10. Precast Concrete Members

- A. The contractor/supplier is responsible for the design of all the precast members and connection between them and other structural members. Submit design calculations, sealed by an engineer licensed in the state of the project location, for review by the
- architect/engineer of record. B. All precast members are to be designed in accordance with ACI 318-14, 2018 IBC and other applicable codes, standards (see specs) and design criteria shown on design
- C. Precast concrete members shall conform to the 2018 IBC for the required fire ratings (refer to architects documents). D. All wall panels should be designed for building wind loads, seismic loads, gravity loads, and transmit these loads to the foundation through properly designed connections.

E. Provide blockouts and openings for mechanical/electrical equipment. Refer to

F. Shop drawings shall be complete and shall include a layout plan, fabrication details,

estimated camber, connection and anchorage details and member identification marks. Identification marks shall appear on manufactured units to facilitate correct field G. Precasst supplier shall design and all components to meet the requirements of the

11. Deferred Submittal and Shop Drawing

ICC500-2014 code.

mechanical/electrical documents.

- A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
- B. Deferred submittals shall be submitted to the architect of record for review who shall forward to the building official for review and approval. Design calculations for deferred sub mittals shall be submitted at the same time as the shop drawings for review. Design calculations shall be prepared and sealed by a Professional Engineer licensed in the state of the project. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official.
- C. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall: 1. Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
- Review and approve each submission. 3. Stamp each submission as approved. D. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written
- documentation. E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above
- requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp. F. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days
- to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC. 1. Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
- 2. Reinforcing steel shop drawings including erection drawings and bending details.Bar list will not be reviewed for correct quantities.
- 3. Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing. 4. Grout mix designs (for CMU). 5. Construction and control joint plans and/or elevations.
- 6. Structural steel shop drawings including erection drawings and piece details. Include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on nonstructural drawings for Bob D. Campbell and Company, Inc. review. 7. Deferred Submittal: Structural steel joists
- 9. Deferred Submittal: Metal stair framing 10. Deferred Submittal: Exterior cold-formed metal framing shop drawings and design calculations
- 11. Deferred Submittal: Exterior curtain wall 12. Deferred Submittal: Structural steel connection design calculations submitted concurrently with structural steel shop drawings.
- 14. Deferred Submittal: Precast concrete shop drawings including erection drawings and connection details. 15. Deferred Submittal: Precast concrete design calculations

13. Miscellaneous anchors shown on the structural drawings.

8. Deferred Submittal: Railings and guardrails

12. Statement of Structural Special Inspections

- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
- B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person. C. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and
- D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code. E. The following inspections and tests are required with the frequency (continuous or
- periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections. 1. Shop Fabrication – structural steel and steel bar joist per Section 1704.2.5
- 2. Shop Fabrication precast concrete per Section 1704.2.5 unless PC certified
- 3. Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter J (as referenced by AISC 360)
- 4. Cold-Formed Steel Deck per Section 1705.2.2 and the quality assurance requirements of SDI QA/QC. 5. Cold-formed steel trusses spanning 60 feet or greater per Section 1705.2.2.2 6. Concrete Construction per Section 1705.3 and Table 1705.3
- b. Reinforcing Steel Welding c. Cast in Place Anchors

unless AISC certified shop

d. Post Installed Anchors e. Design Mix Verification

Reinforcing Steel Placement

- f. Concrete Sampling and Testing g. Concrete Placement
- n. Concrete Curing Erection of Precast Formwork Shape, Location and Dimensions
- 7. Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 602 Level 2. 8. Verification of Soils per Table 1705.6

FAR FACE

FINISH

FLOOR

FAR SIDE

FOOTING

FIELD VERIFY

A. All drawings in the structural set (S-series drawings) are the copyrighted work of

the owner, architect, and general contractor for coordination, bidding, and

B. I, Wayne E. Davis, P.E., registered engineer and a representative of Bob D.

elsewhere in the construction document package.

Campbell and Company, Inc., do hereby accept professional responsibility as

or in any manner.

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and Company, Inc. Exception: Original drawings may be printed for distribution to

construction. Subcontractors may not reproduce these drawings for any purpose

required by the professional registration laws of this state for the structural design

other drawings in the construction document package, they being the responsibility

drawings consisting of S-series drawings. I hereby disclaim responsibility for all

of other design professionals whose seals and signed statements may appear

| <u>@</u> | AT | GA | GAGE | RAD | RADIUS |
|-------------|----------------------------|--------|-------------------------------|---------|-------------------------------|
| @ & | | | | | |
| Č. | AND | GALV | GALVANIZE(D) | RD-# | ROOF DECK TYPE |
| Ø | ROUND, DIAMETER | GEN | GENERAL | REF | REFERENCE |
| ADTL | ADDITIONAL | GR | GRADE | REINF | REINFORCEMENT |
| | | | | | |
| AFF | ABOVE FINISHED FLOOR | HORIZ | HORIZONTAL | REQD | REQUIRED |
| ALT | ALTERNATE | HSS | HOLLOW STRUCTURAL SECTION | REV | REVISION |
| ARCH | ARCHITECTURAL | IF | INSIDE FACE | RLL | ROOF LIVE LOAD |
| BLDG | | | | RTU | |
| | BUILDING | INFO | INFORMATION | | ROOF TOP UNIT |
| B/ | BOTTOM OF | INT | INTERIOR | SC | SLIP CRITICAL |
| BM | BEAM | JST | JOIST | SCHED | SCHEDULE(D) |
| BOTT | BOTTOM | JT | JOINT | SECT | SECTION |
| | | | | | |
| BRG | BEARING | K | KIPS (1000 LBS) | SHT | SHEET |
| С | CAMBER | KSF | KIPS PER SQUARE FOOT | SIM | SIMILAR |
| CD-# | CONCRETE DECK TYPE | KSI | KIPS PER SQUARE INCH | SJ | SAW JOINT |
| CJ " | CONSTRUCTION/CONTROL JOINT | LBS, # | POUNDS | SL | SNOW LOAD |
| | | | | | |
| CJP | COMPLETE JOINT PENETRATION | Ld | DEVELOPMENT LENGTH | SOG | SLAB-ON-GRADE |
| CL | CENTERLINE | LL | LIVE LOAD | SOG-# | SLAB-ON-GRADE TYPE |
| CMU | CONCRETE MASONRY UNIT | LLH | LONG LEG HORIZONTAL | SPCG | SPACING |
| COL | | LLV | | | |
| | COLUMN | | LONG LEG VERTICAL | SPEC | SPECIFICATION |
| CONC | CONCRETE | LONG | LONGITUDINAL | SPRT | SUPPORT |
| CONN | CONNECTION | LSLT | LONG-SLOTTED HOLE TRANSVERSE | SQ | SQUARE |
| CONT | CONTINUOUS | LTWT | LIGHTWEIGHT | SS | STAINLESS STEEL |
| | | | | | |
| COORD | COORDINATE | M | MOMENT FORCE | SSLT | SHORT-SLOTTED HOLE TRANSVERSE |
| COV, CVR | COVER | MAX | MAXIMUM | STD | STANDARD |
| DBL | DOUBLE | MECH | MECHANICAL | STIFF | STIFFENER |
| DET | DETAIL | MFGR | MANUFACTURER | STIR | STIRRUP |
| | | | | | |
| DIA | DIAMETER | MIN | MINIMUM | STL | STEEL |
| DIM | DIMENSION | MISC | MISCELLANEOUS | STRUCT | STRUCTURE, STRUCTURAL |
| DL | DEAD LOAD | MSRY | MASONRY | T/ | TOP OF |
| DWG | DRAWING | MTL | METAL | THRU | THROUGH |
| | | | | | |
| EA | EACH | NF | NEAR FACE | TOS | TOP OF STEEL, TOP OF SLAB |
| EF | EACH FACE | NS | NEAR SIDE | TRANS | TRANSVERSE |
| EJ | EXPANSION JOINT | NTS | NOT TO SCALE | TYP | TYPICAL |
| EL, ELEV | ELEVATION | NW | NORMAL WEIGHT | UNO | UNLESS NOTED OTHERWISE |
| | | | | | |
| EMBED | EMBEDMENT, EMBEDDED | OC | ON CENTER | V | SHEAR FORCE |
| ENGR | ENGINEER | OF | OUTSIDE FACE | VERT | VERTICAL |
| EOD | EDGE OF DECK | OPNG | OPENING | W/ | WITH |
| EOR | ENGINEER OF RECORD | OPP | OPPOSITE | W/0 | WITHOUT |
| | | | | | |
| EOS | EDGE OF SLAB | OVS | OVERSIZED HOLE | WF | WIDE FLANGE |
| EQ | EQUAL | Р | AXIAL FORCE | WL | WIND LOAD |
| EQUIP | EQUIPMENT | PAF | POWDER ACTUATED FASTENER | WP | WORK POINT |
| EW | EACH WAY | PC | PRECAST | WWF | |
| | | | | V V V V | WELDED WIRE FABRIC |
| EXP | EXPANSION | PCF | POUNDS PER CUBIC FOOT | | |
| EXT | EXTERIOR | PEMB | PRE-ENGINEERED METAL BUILDING | | |
| EXTG, EXIST | EXISTING | PERP | PERPENDICULAR | | |
| | FLOOR DECK TYPE | PL | | | |
| FD-# | | | PLATE | | |
| FDN | FOUNDATION | PLF | POUNDS PER LINEAR FOOT | | |
| | EADEAGE | D 1D | DADTIAL JOINT DENIETDATION | | |

PARTIAL JOINT PENETRATION

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

QUANTITY

PSI

LEGEND:

. 3/8"x7"x7" BEARING PLATE WITH (2) ½"ØX6" STUDS . 3½" CONCRETE SLAB REINFORCED W/

GALVANIZED FORM DECK (3 SPAN CONTINUOUS) . 1½", 22ga GALVANIZED WIDE RIB ROOF DECK (3 SPAN CONTINUOUS) ATTACH

FOOTING & #2 TIES (@ 8"o.c. GROUT SOLID WITH 3,000PSI GROUT

SHEET S002. HSS4x4x3/8COLUMN SIZE

VERT. WITH EQUAL DOWELS TO

INDUCED CAMBER AT BEAM MID-SPAN W14x22 — STEEL BEAM SIZE

T 117'-6" TOP OF BEAM ELEVATION

6x6-W2.1xW2.1 WWF ON 0.6"x26ga

TO STRUCTURE TO DEVELOP 325plf

BASE PLATE MARK - SEE SCHEDULE ON SHEET S002

. SPAN DIRECTION OF DECK

DIAPHRAGM SHEAR (ASD LOAD). 8"x16" CMU COLUMN REINF. W/ (2) #5

FOOTING MARK - SEE SCHEDULE ON

INDICATES AMOUNT OF UPWARD

ELEVATION **EACH END**

т 816.442.7700 115 Wilcox Street Suite 210 Castle Rock, CO 80104 т 720.949.1689

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ructure # 200603133

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Civil Engineer State Certificate of Authority Engineering #2001009364 Landscaping #2006027139 Surveying #2006027138 11827 W 112th Street, Suite 200 Overland Park, KS 66210 913.317.9390 phone **Peerbolte Creative**

Warrensburg, MO 64093-0754

Theatrical Consultant

660.429.1383 phone

109 E Pine St.

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Σ alle hool

REVISIONS:

Description

Date

JOB NO: 23019 DRAWN BY: TAJ CHECKED BY: WED

DATE: 10.11.2023

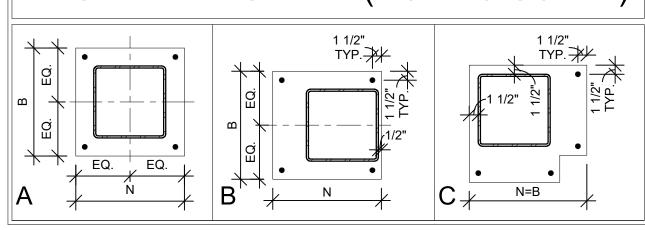
GENERAL NOTES

COLUMN BASE PLATE SCHEDULE

| TYPE | COLUMN | BASE PLATE (txBxN) | SHAPE | ANCHOR RODS | EMBEDMENT |
|------|-------------|--------------------|----------|-------------|-----------|
| 1 | PER PLAN | 3/4"x10"x10" | Α | (4) 3/4"Ø | 9" |
| 2 | PER PLAN | 3/4"x8"x10" | В | (4) 3/4"Ø | 9" |
| 3 | PER PLAN | 3/4"x10"x10" | С | (4) 3/4"Ø | 9" |
| | | | | | |
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| NOT | -0. | , | <u> </u> | | 1 |
| NOTE | = 5: | | | | |

3. U.N.O. ALL THREADED ROD A.B's SHALL BE F1554 (36ksi) MATERIAL.

BASE PLATE SHAPE (NOT TO SCALE)



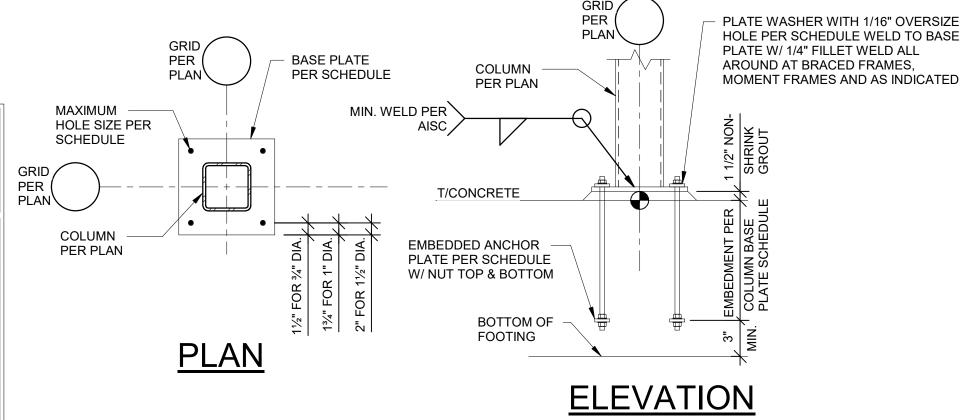
| COLUMN BASE PLATE AND ANCHOR-ROD CRITERIA | | | | | | | | |
|--|-----------------------------------|----------------------------|--------------------------------|-------------------------------|--|--|--|--|
| ANCHOR-ROD DIAMETER. | MAX. BASE PLATE HOLE DIAMETER. | MIN. PLATE WASHER SIZE. | MIN. PLATE WASHER THICKNESS | EMBEDDED ANCHOR PLATE SIZE | | | | |
| 3/4" | 1 5/16" | 2" | 1/4" | 1/2"x2 1/2"x2 1/2" | | | | |
| 7/8" | 1 9/16" | 2 1/2" | 5/16" | 1/2"x2 1/2"x2 1/2" | | | | |
| 1" | 1 7/8" | 3" | 3/8" | 5/8"x3"x3" | | | | |
| 1 1/4" | 2 1/8" | 3 1/2" | 1/2" | 5/8"x3 1/2"x3 1/2" | | | | |
| 1 1/2" | 2 3/8" | 4" | 1/2" | 5/8"x3 1/2"x3 1/2" | | | | |
| 1 3/4" | 2 7/8" | 4 1/2" | 5/8" | 3/4"x3 1/2"x3 1/2" | | | | |
| 2" | 3 1/4" | 5" | 3/4" | 3/4"x3 1/2"x3 1/2" | | | | |
| 2 1/2" | 3 3/4" | 5 1/2" | 7/8" | 3/4"x3 1/2"x3 1/2" | | | | |

NOTES:

1. HOLE SIZES PROVIDED ARE BASED ON ANCHOR ROD SIZE AND CORRELEATE WITH ACI 117 (ACI, 2010)

2. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.

3. HOLE IN PLATE WASHER SHALL BE 1/16" LARGER THAN ANCHOR DIAMETER.



1 TYPICAL BASE PLATE DETAIL

| EXTE | TERIOR METAL STUD SCHEDUL | | | | | | | |
|-------|------------------------------------|--|--|--|--|--|--|--|
| FLOOR | TYP. STUD SIZE & SPACING | | | | | | | |
| 1st | 6", 16ga @ 16"o.c. (1 5/8" FLANGE) | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

17

1. STUDS NOTED ABOVE ARE MINIMUM SIZE REQUIRED. 2. STUDS SUPPLIER SHALL DESIGN WALL FRAMING COMPONENTS AND ALL CONNECTIONS. SUBMIT SEALED SHOP DRAWINGS AND CALCULATIONS FOR REVIEW.

15

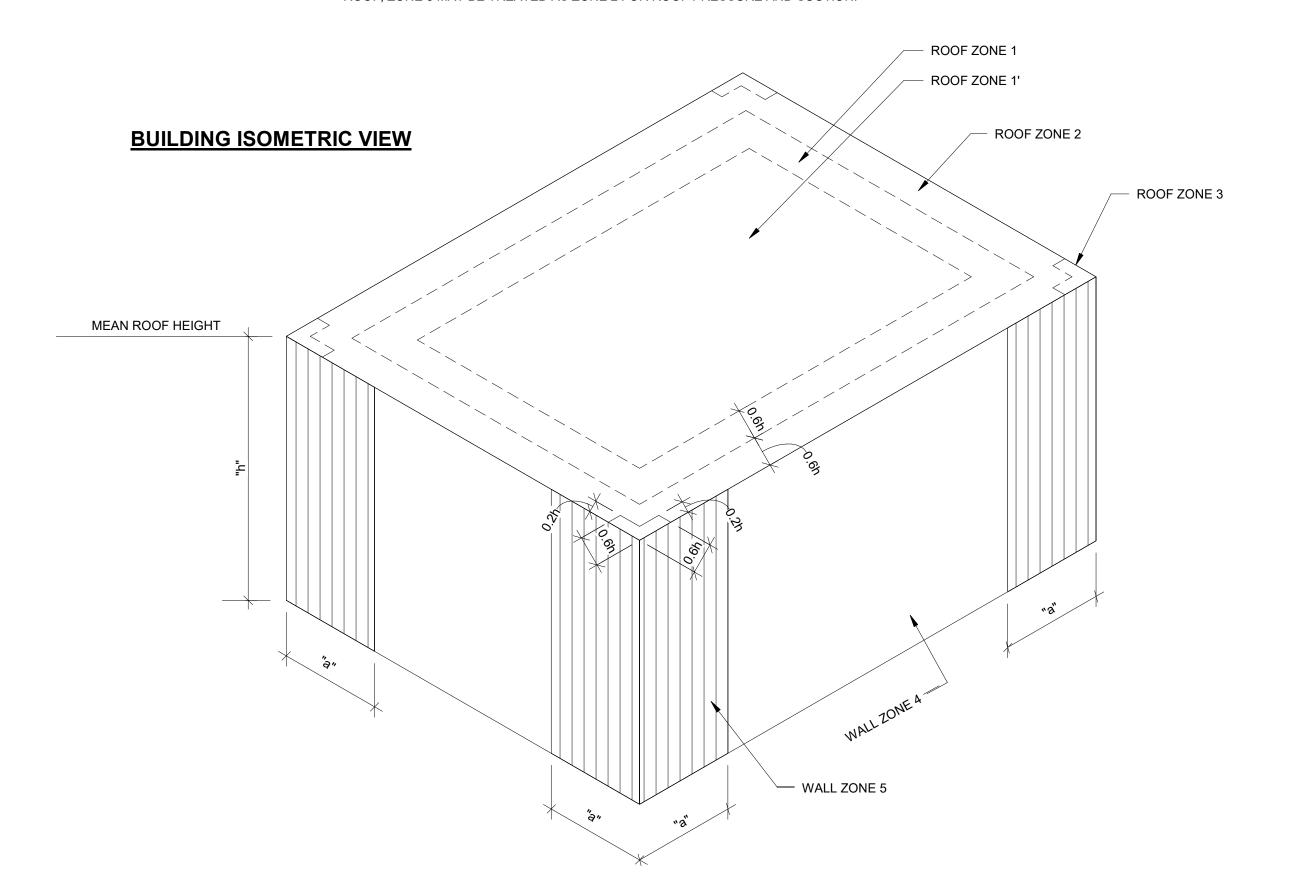
| Structural Foundation Schedule | | | | | | | | | | | | |
|--------------------------------|----------------|---------------------------------|--|------------------------------|--|------------|--|--|--|--|--|--|
| SPECIFIED RE 2.) PROVIDE R | BAR TOP AND BO | OTTOM WITH 4 S R SCHEDULE EA | STANDEES TO SUPPORTED TO SUPPORT TO STANDERS TO SUPPORT TO STANDERS TO STANDERS TO SUPPORT TO SUPPO | RT MATS. TG. AT ALL MOMEN | PTH AND BE PLACED WITH T FRAME AND BRACED BA' NOTED OTHERWISE (U.N.C | Y COLUMNS. | | | | | | |
| Type Mark | Length | Width | Footing Thickness | Bottom Bars | Quantity (E.W. Bott) | | | | | | | |
| | 4'-0" | 4'-0" | 4! 0" | D - I # 4 | | | | | | | | |
| 4.0 | 4-0 | 4-0 | 1'-0" | Rebar : # 4 | 8 | | | | | | | |
| 4.0 4.0A | 4'-0" | 4'-0" | 2'-8" | Rebar : # 4 Rebar : # 4 | <u>8</u> 8 | | | | | | | |

ASCE 7-16 BASIC LOAD CASE 1.0W COMPONENT AND CLADDING WIND PRESSURE DIAGRAM NOTES:

- REFER TO GENERAL NOTES FOR WIND LOAD DESIGN CRITERIA. POSITIVE LOADS ACT IN A PERPENDICULAR DIRECTION TOWARDS THE SURFACE. NEGATIVE
- LOADS ACT IN PERPENDICULAR DIRECTION AWAY FROM THE SURFACE. WIND LOADS CALCULATED ARE BASED ON THE PROVISIONS OF ASCE 7. VALUES SHOWN
- ARE DETERMINED ASSUMING AS ENCLOSED BUILDING WITH AN INTERNAL PRESSURE COEFFICIENT = +/- 0.18 AND A Kd FACTOR = 0.85. LOADS SHOWN ARE FROM UNFACTORED BASIC LOAD CASE
- LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREAS BETWEEN VALUES GIVEN. "a" SHALL BE THE LESSER OF 10 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 0.4x"h",
- BUT NOT LESS THAN 4 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 3 FT. FIGURES SHOWN ARE ILLUSTRATIVE ONLY AND ARE NOT INTENDED TO DEPICT THE ACTUAL
- STRUCTURE DIMENSIONS. ALL DESIGNERS USINGING THIS WIND LOAD DIAGRAM MUST INDEPENDENTLY VERIFY THE
- DESIGN PRESSURES BASED ON THE APPLICABLE BUILDING CODE.
 ROOF PRESSURES ARE FOR FLAT ROOF ONLY. WIND LOADS FOR THE DESIGN OF SLOPED

14

- ROOFS (WITH ANGLES GREATER THAN 10 DEGREES) SHALL BE OBTAINED USING THE PROVISIONS OF ASCE 7-16.
- PARAPETS SHALL BE DESIGNED FOR COMPONENTS AND CLADDING LOADS PER ASCE 7 SECTION 6.5.12.4.4. IF A PARAPET 3'-0" OR HIGHER OCCURS AROUND THE PERIMETER OF THE ROOF, ZONE 3 MAY BE TREATED AS ZONE 2 FOR ROOF PRESSURE AND SUCTION.



| | | | | | ВІ | JILDING CO | MPONENT A | HAN 3 DEGR ND CLADDIN ND SUCTION | ١Ġ | | | | | |
|-----------------------------|-------|------|-------|------|-------|------------|-----------|--|-------|------|-------|------|-------|------|
| EFFECTIVE AREA (SQ. FT.) | 1 | 0 | 2 | 0 | 5 | 50 | , | 100 | 2 | 200 | 5 | 500 | 100 |)0 |
| ZONE 1 | -35.7 | 9.4 | -33.8 | 8.4 | -30.0 | 7.9 | -28.1 | 7.5 | -26.3 | 7.5 | -22.5 | 7.5 | -22.5 | 7.5 |
| ZONE 1' | -20.6 | 9.4 | -20.6 | 8.4 | -20.6 | 7.9 | -20.6 | 7.5 | -17.8 | 7.5 | -14.1 | 7.5 | -11.5 | 7.5 |
| ZONE 2 | -46.9 | 9.4 | -44.1 | 8.4 | -40.3 | 7.9 | -37.5 | 7.5 | -33.8 | 7.5 | -30.0 | 7.5 | -30.0 | 7.5 |
| ZONE 3 | -63.8 | 9.4 | -58.2 | 8.4 | -50.7 | 7.9 | -44.1 | 7.5 | -37.5 | 7.5 | -30.0 | 7.5 | -30.9 | 7.5 |
| ZONE 4 | -24.4 | 22.5 | -23.5 | 22.5 | -22.5 | 21.6 | -20.6 | 18.8 | -19.7 | 18.8 | -18.8 | 18.8 | -18.8 | 15.6 |
| ZONE 5 | -30.0 | 22.5 | -28.1 | 22.5 | -25.3 | 21.6 | -23.5 | 18.8 | -21.6 | 18.8 | -18.8 | 18.8 | -18.8 | 15.6 |

3 BUILDING COMPONENTS & CLADDING WIND LOADS DIAGRAM

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

Theatrical Consultant 109 E Pine St. Warrensburg, MO 64093-0754 660.429.1383 phone

REVISIONS:

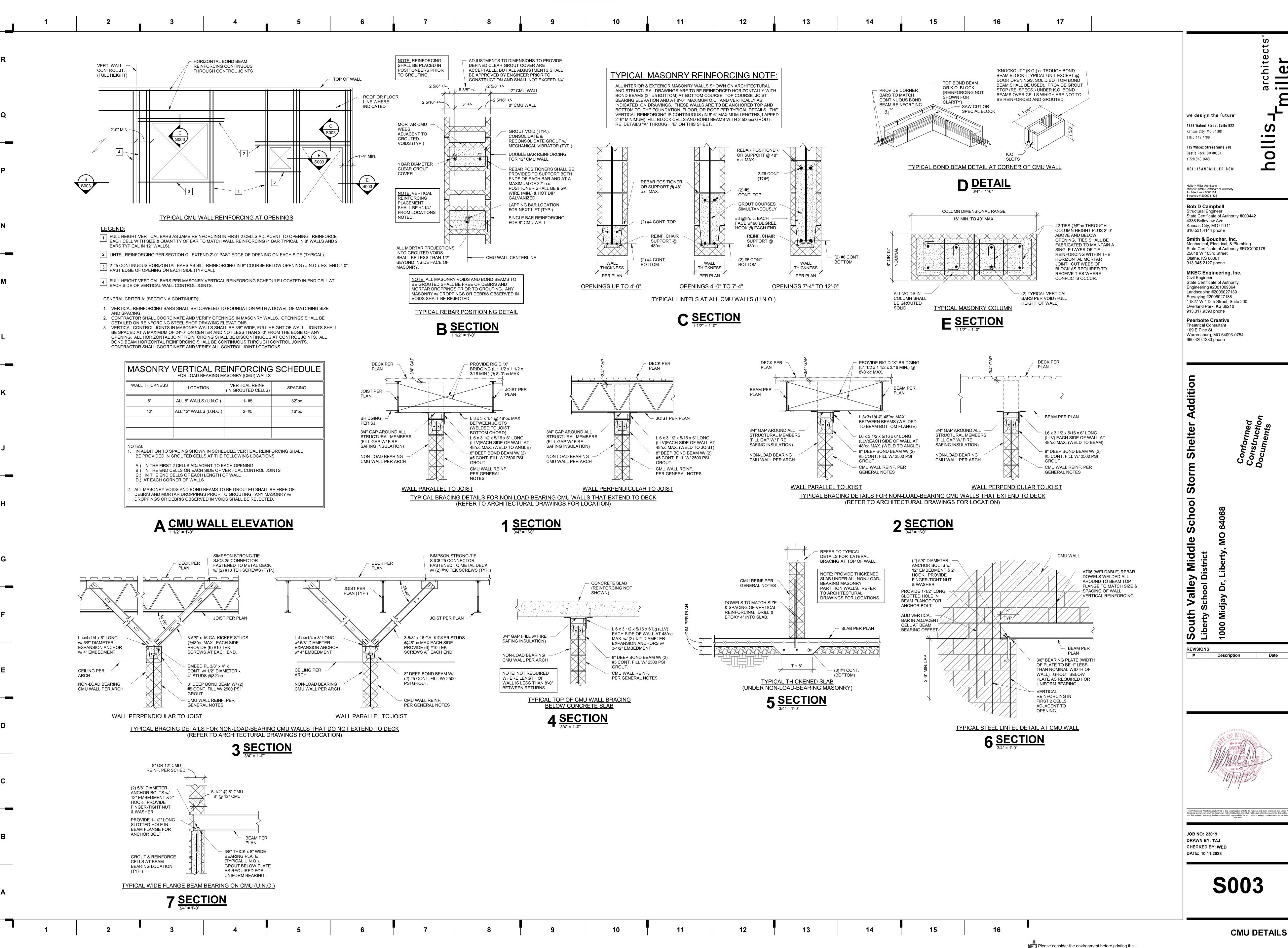
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DATE: 10.11.2023

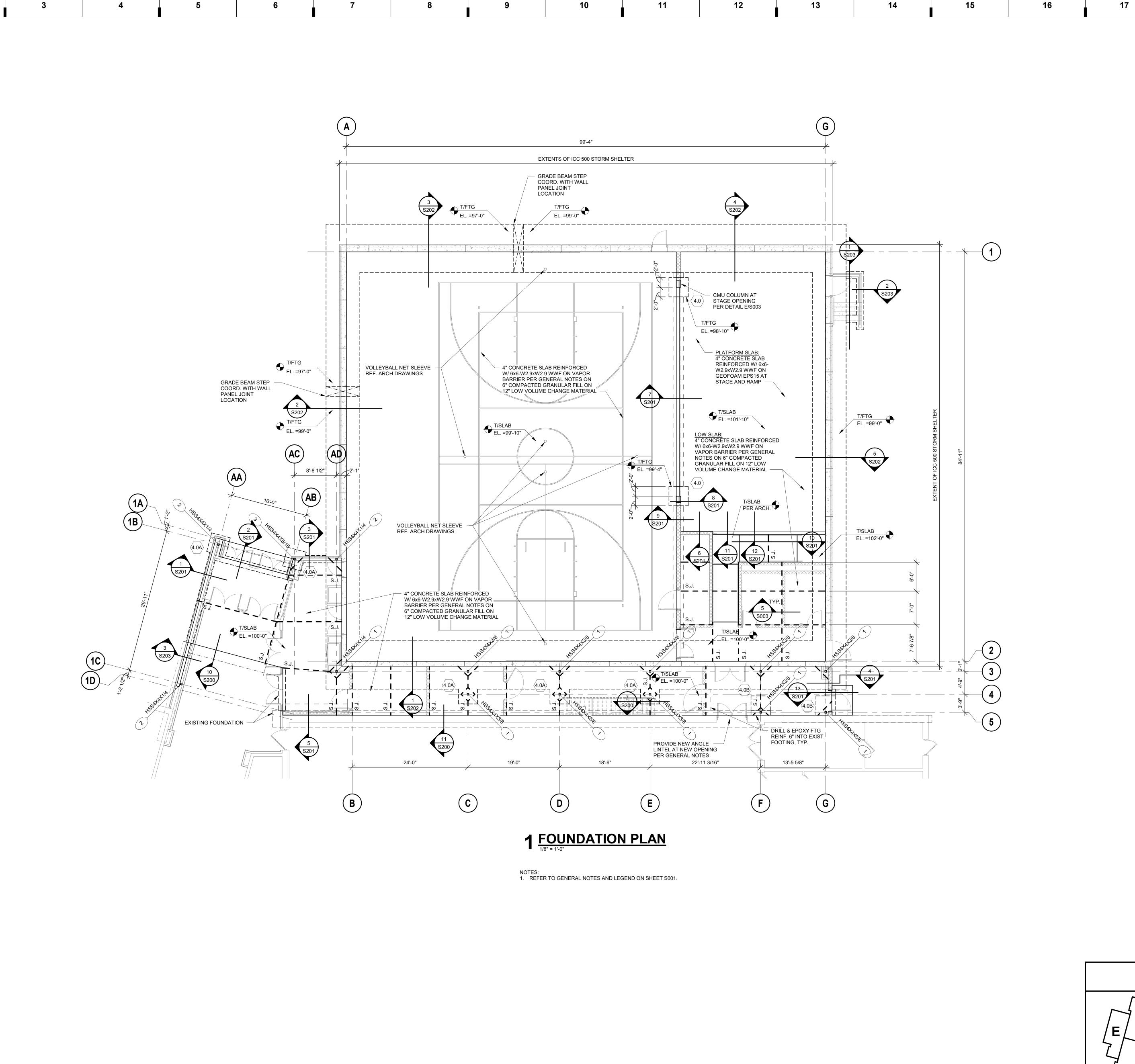
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SCHEDULES



Date

CMU DETAILS



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DRAWN BY: TAJ **CHECKED BY: WED** DATE: 10.11.2023

KEY PLAN

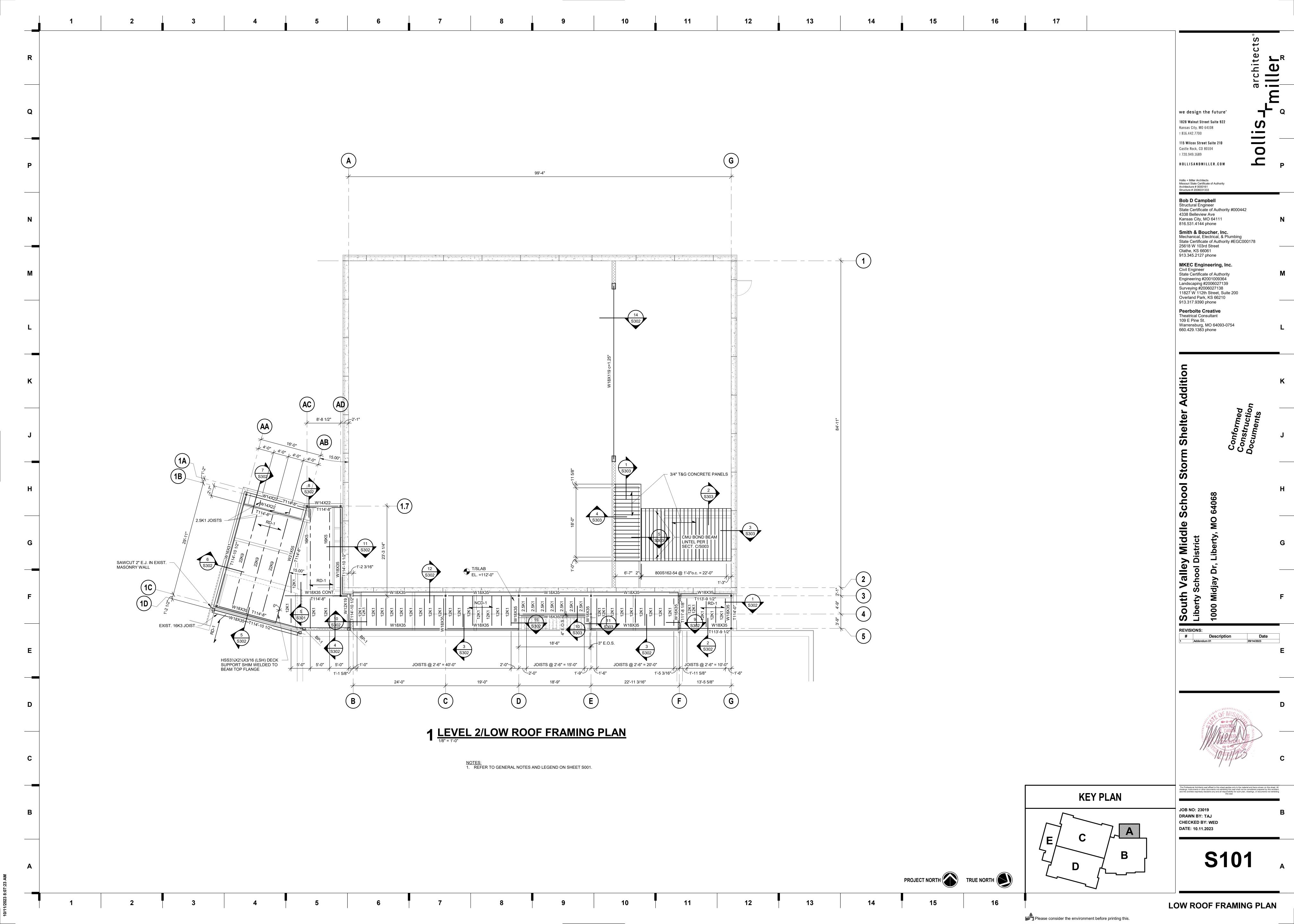
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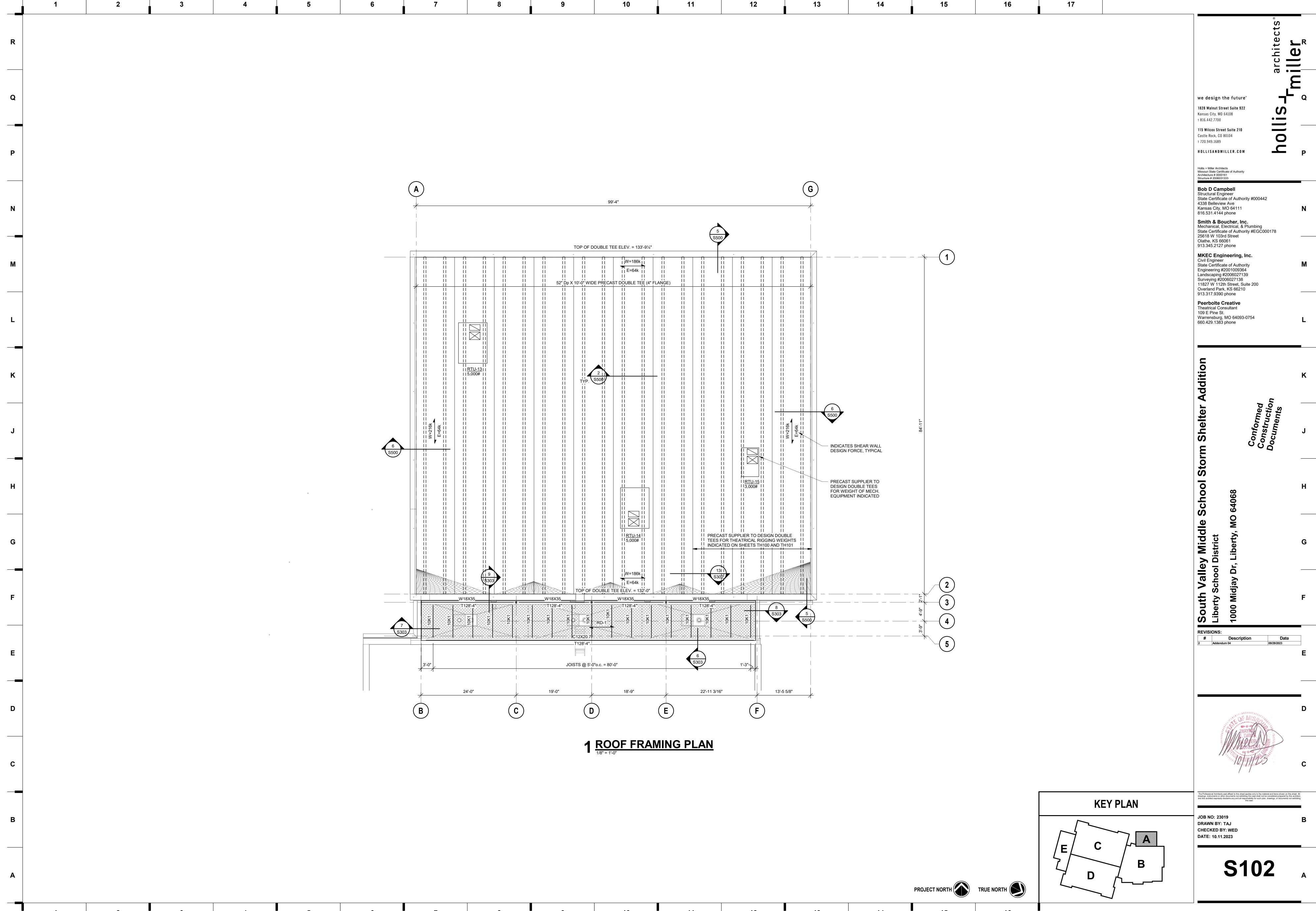
S100 A

FOUNDATION PLAN

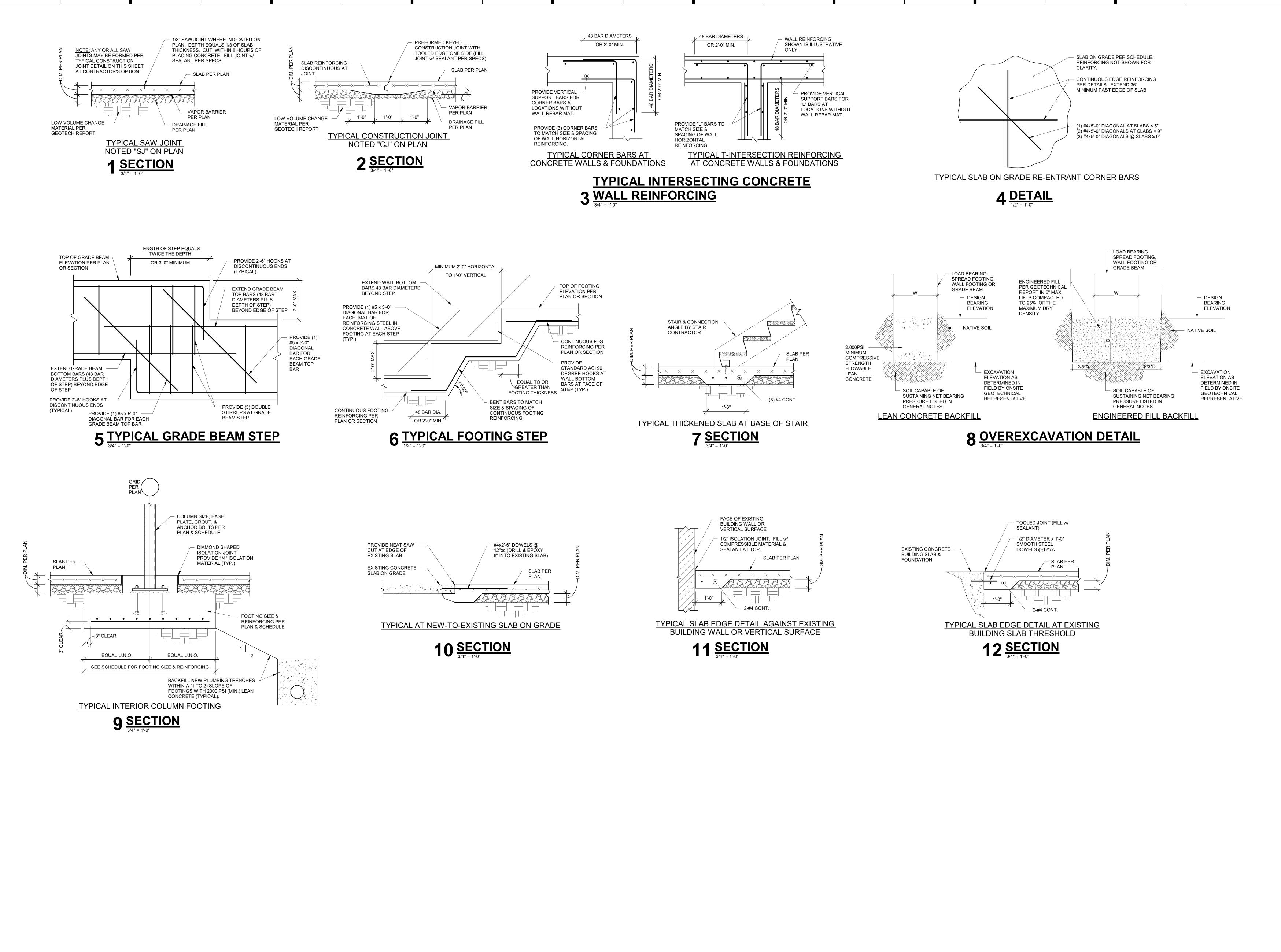
PROJECT NORTH TRUE NORTH

14





HIGH ROOF FRAMING PLAN



G

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15

17

14

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Surveying #2006027138
11827 W 112th Street, Suite 200

913.317.9390 phone

Peerbolte Creative
Theatrical Consultant
109 E Pine St.
Warrensburg, MO 64093-0

Overland Park, KS 66210

109 E Pine St. Warrensburg, MO 64093-0754 660.429.1383 phone

South Valley Middle School Storm Shelter Addition
Liberty School District

1000 Midjay Dr, Liberty, MO 64068

Conformed Documents

Conformed Documents

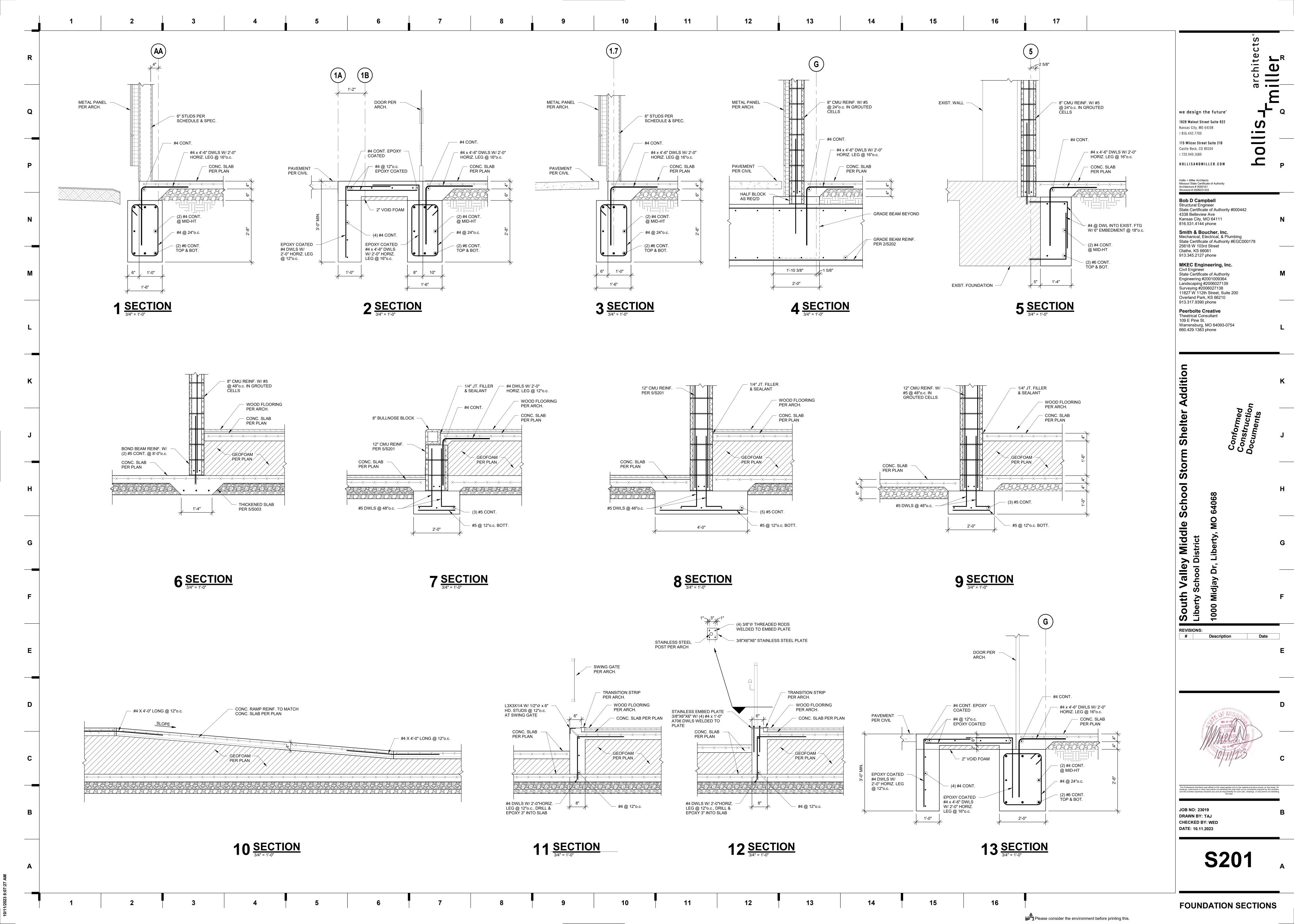
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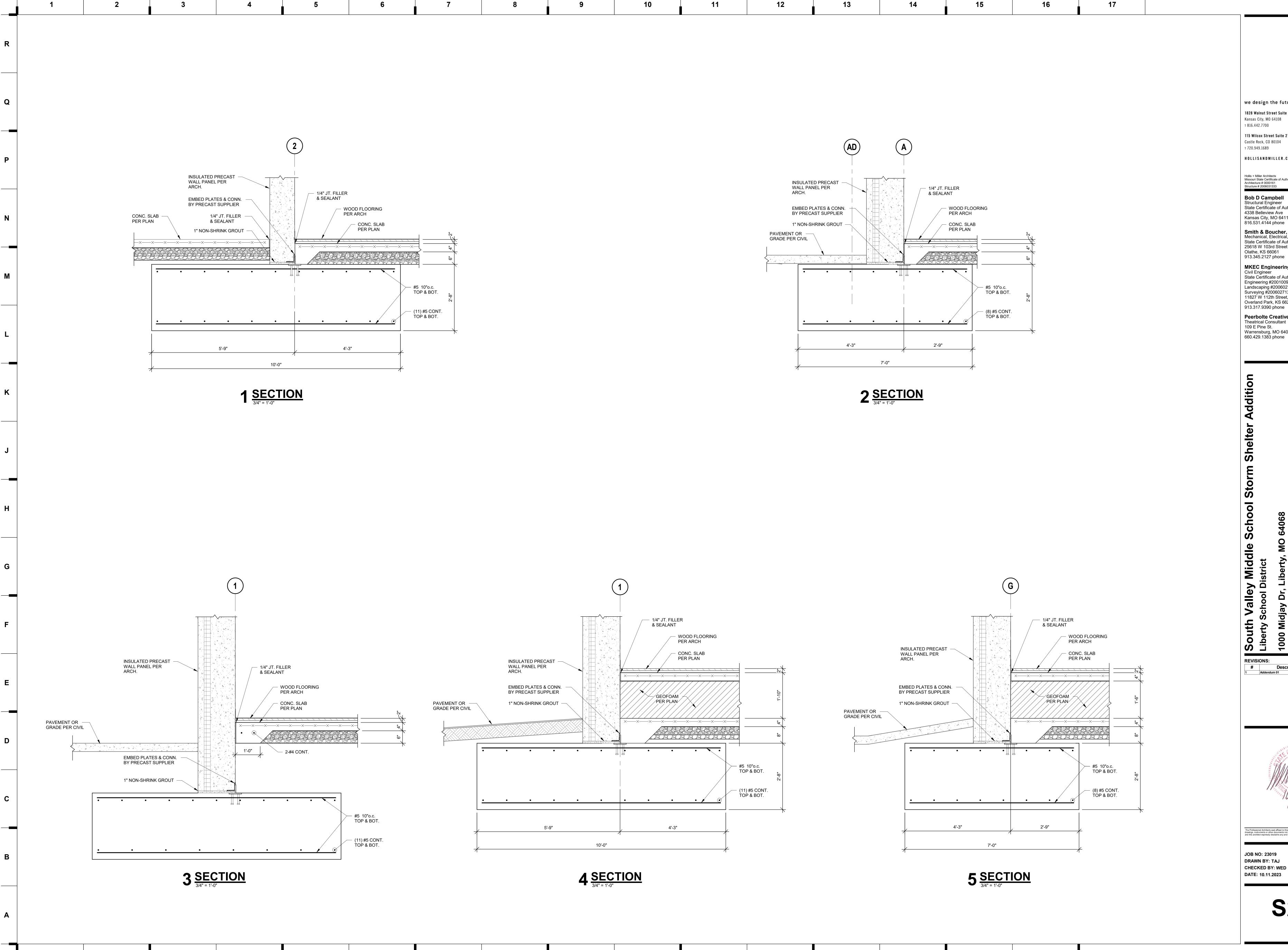
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S200

FOUNDATION SECTIONS



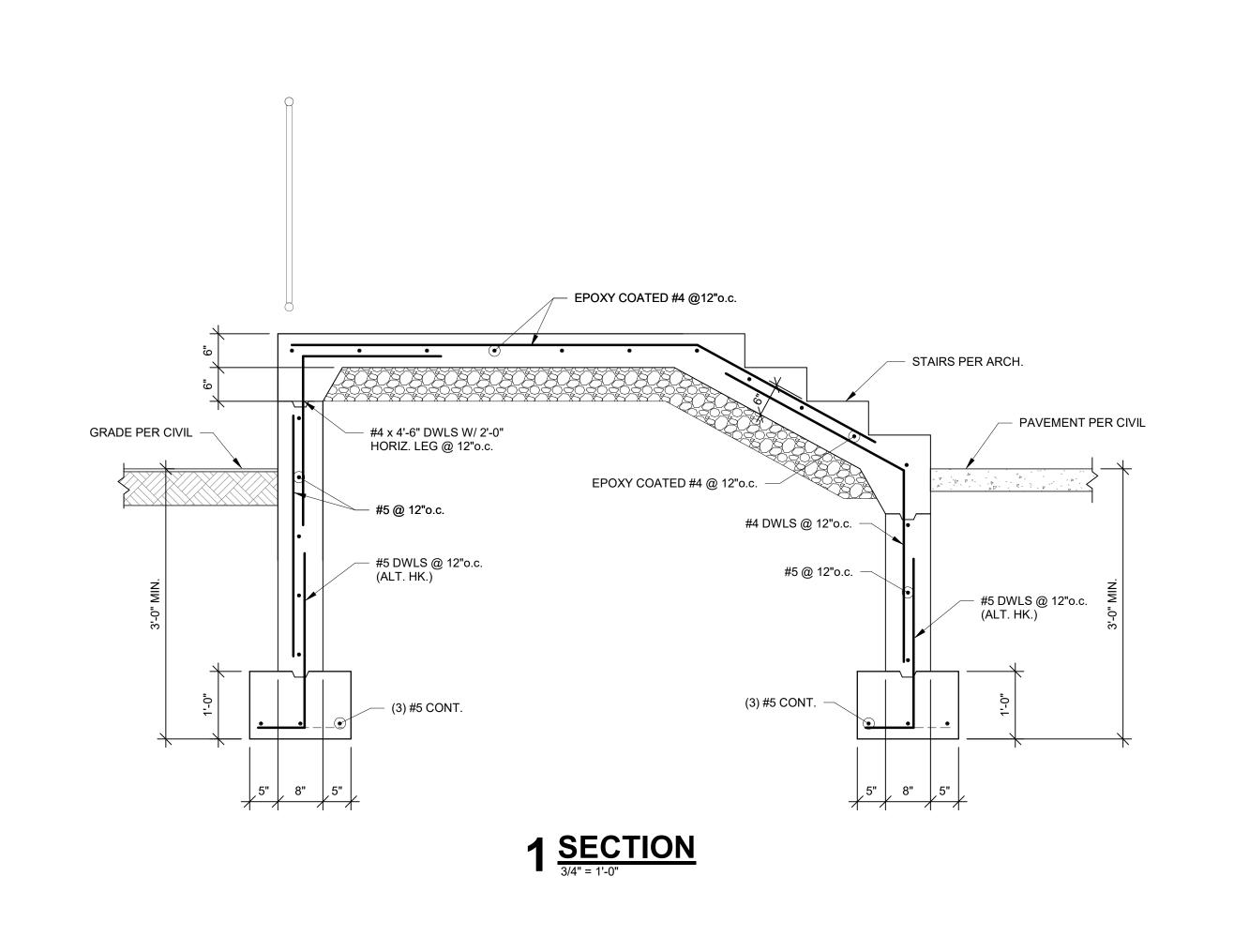


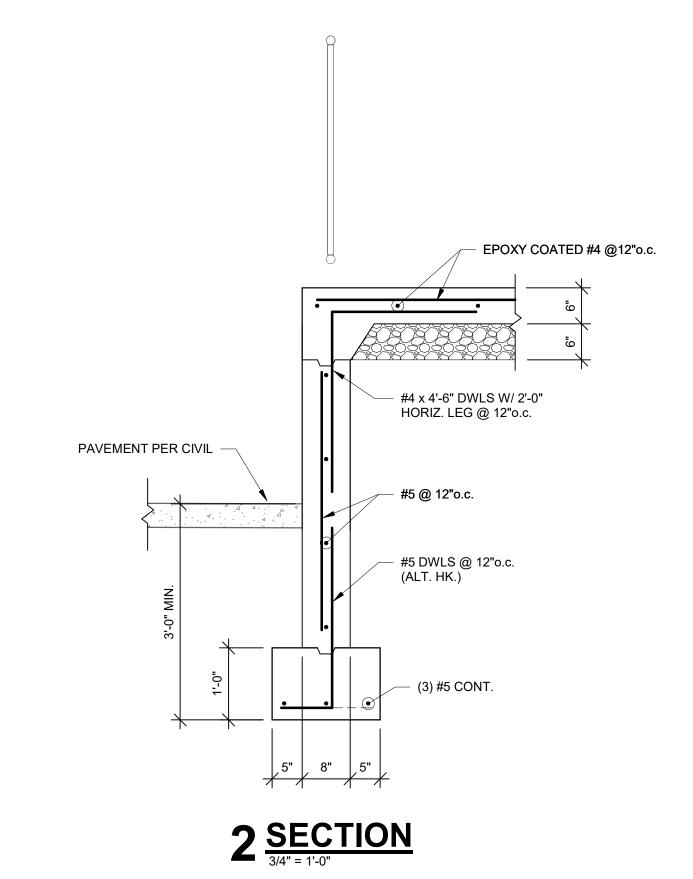
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S202



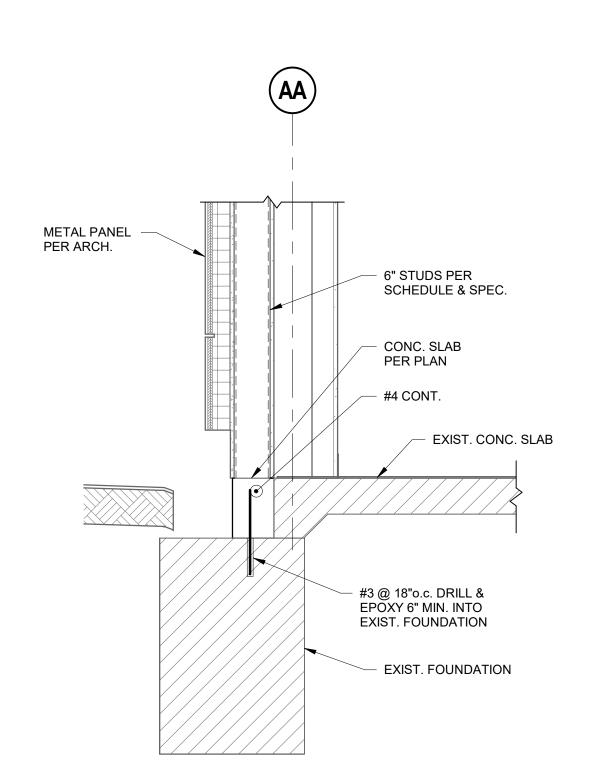


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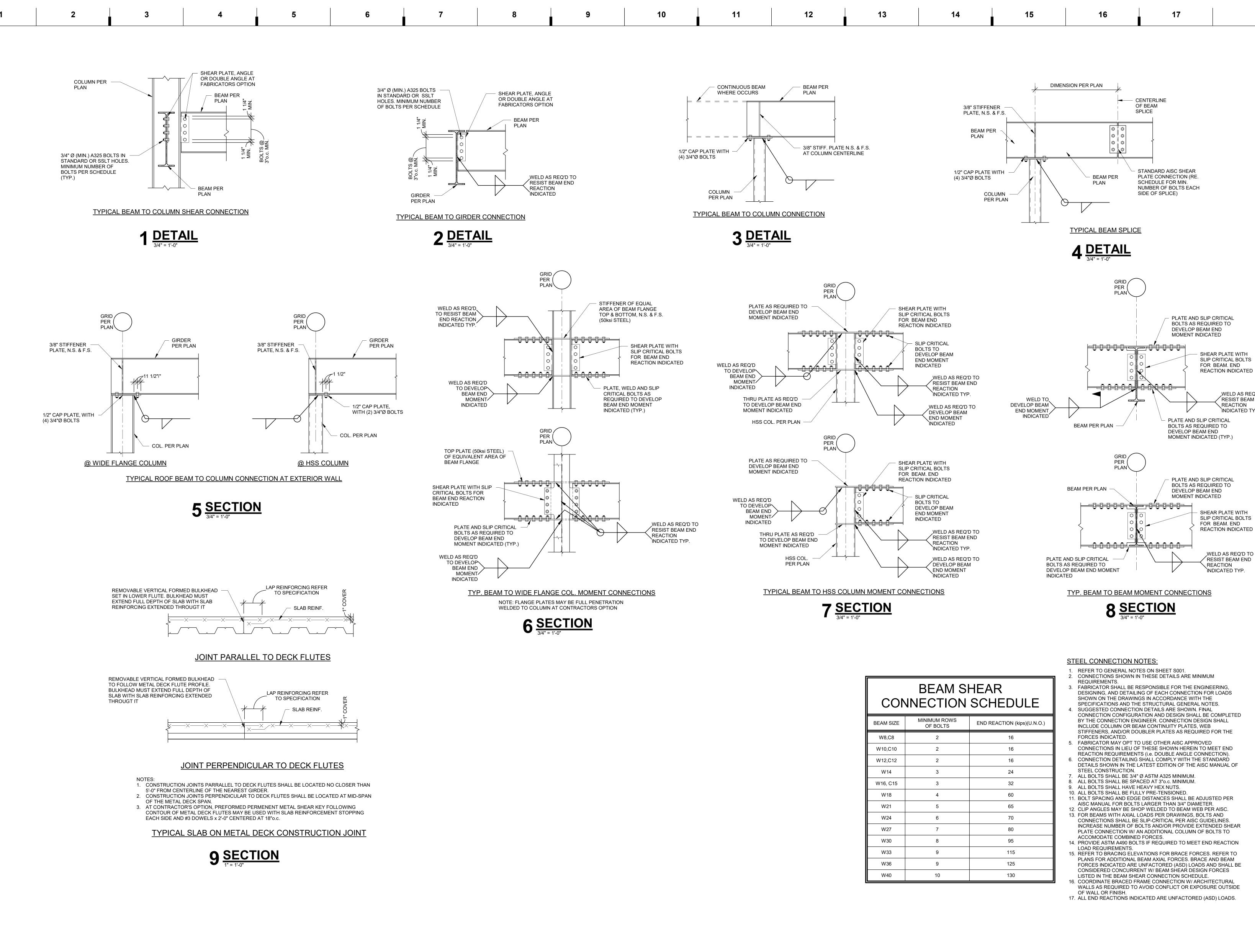
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3 <u>SECTION</u>

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REACTION

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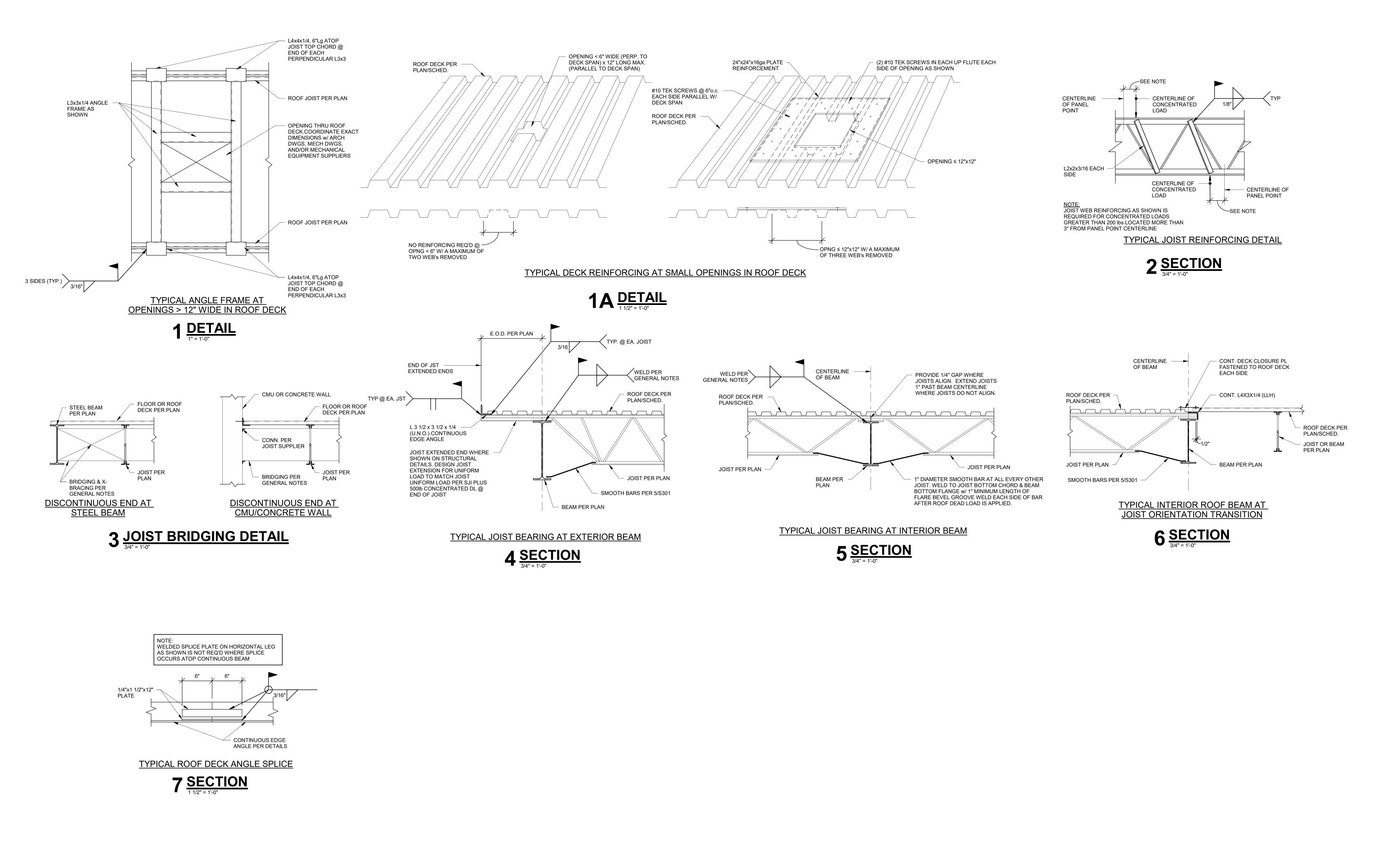
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REACTION

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Date

TYPICAL FRAMING DETAILS



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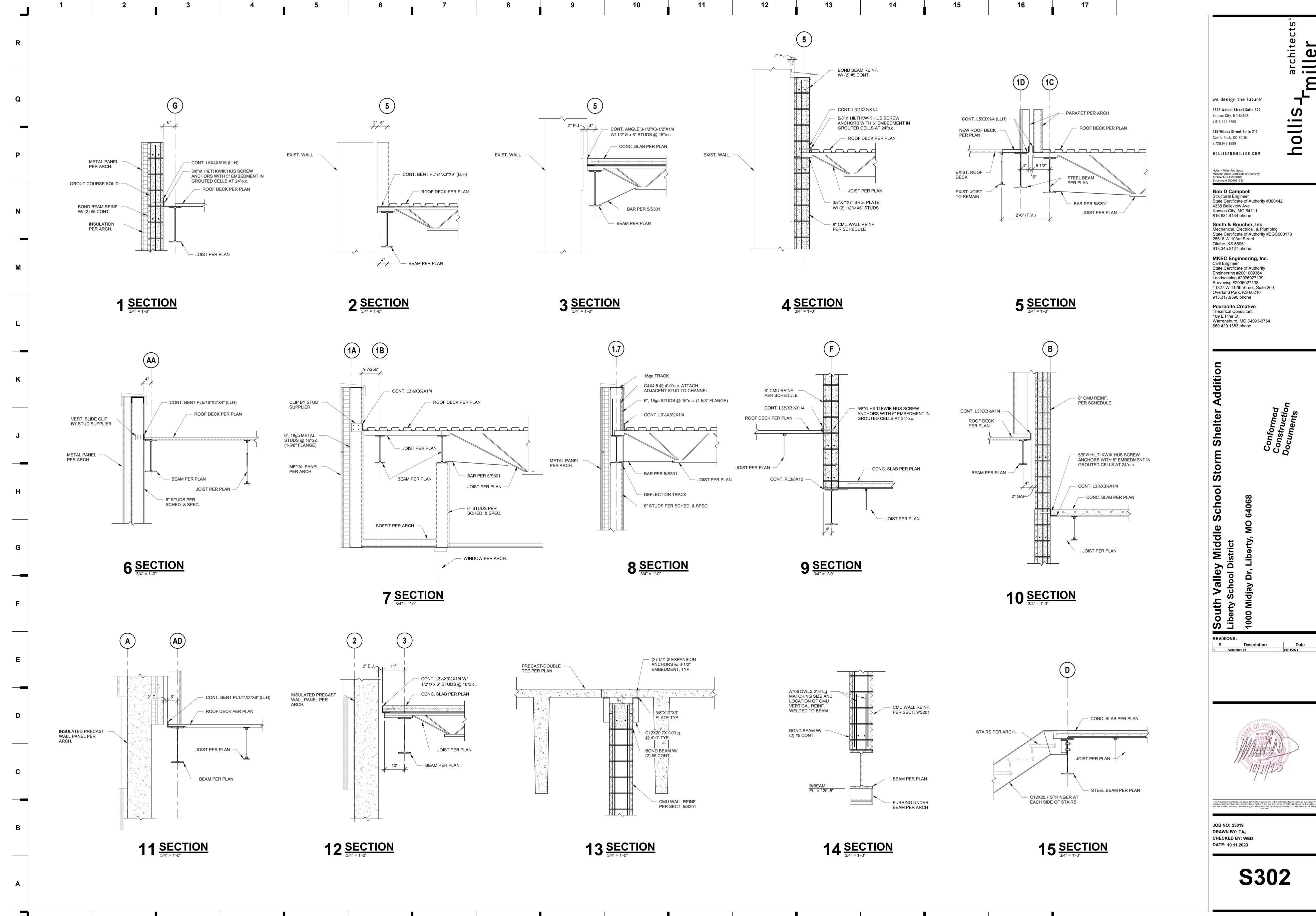
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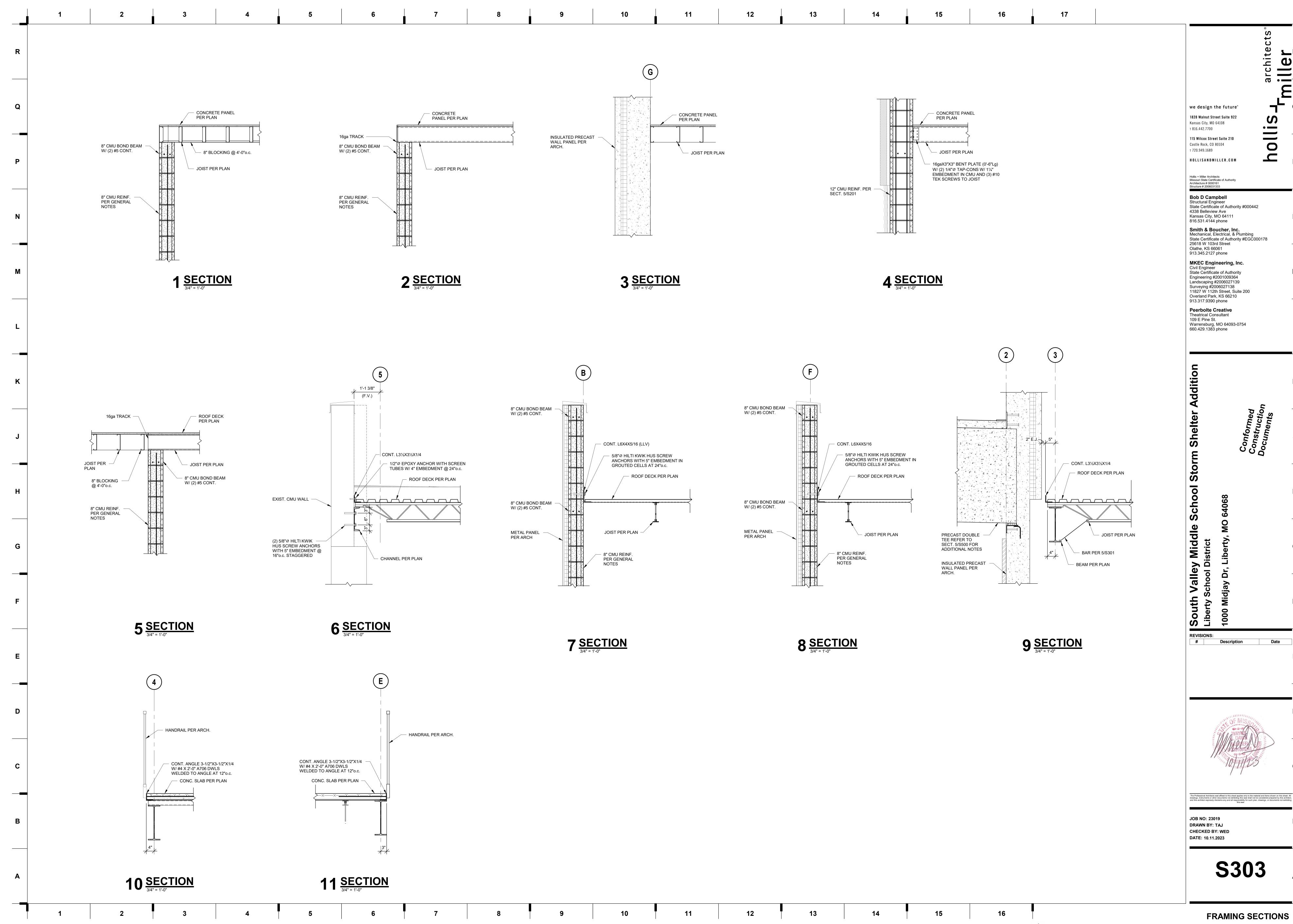
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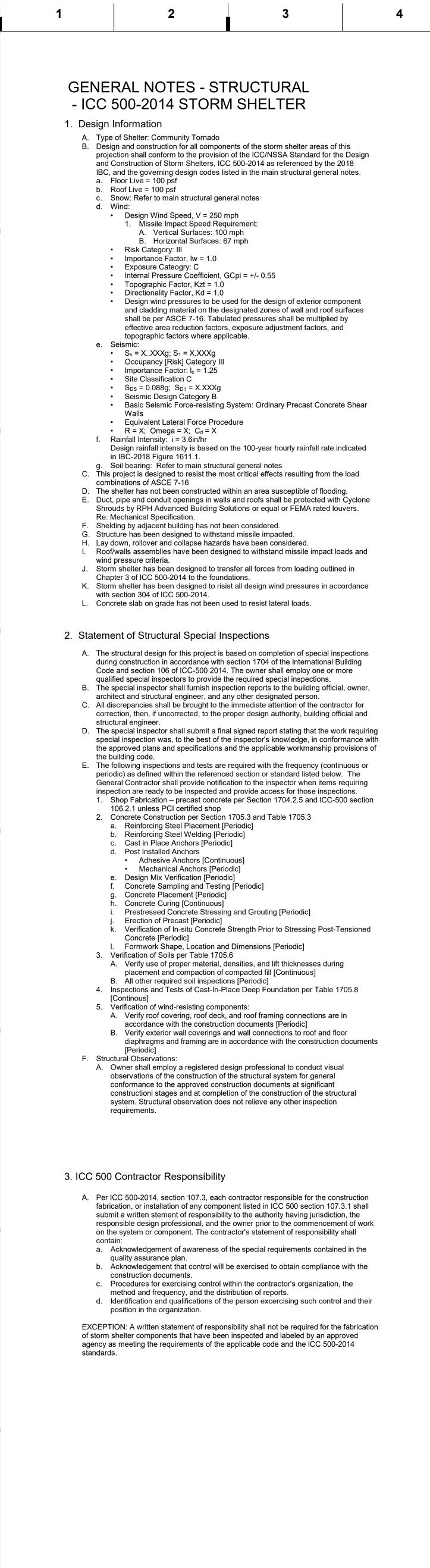
ROOF FRAMING SECTIONS



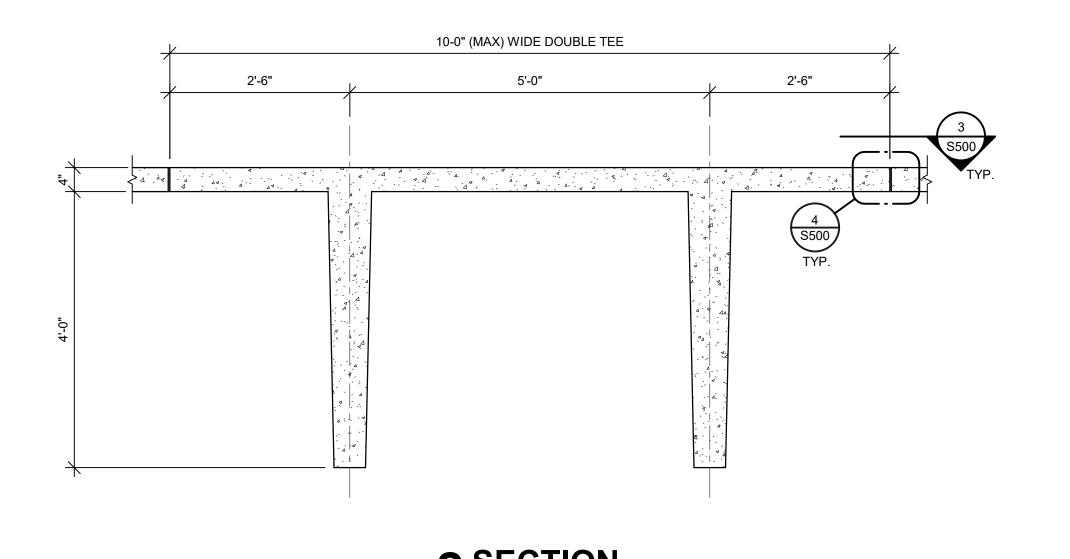
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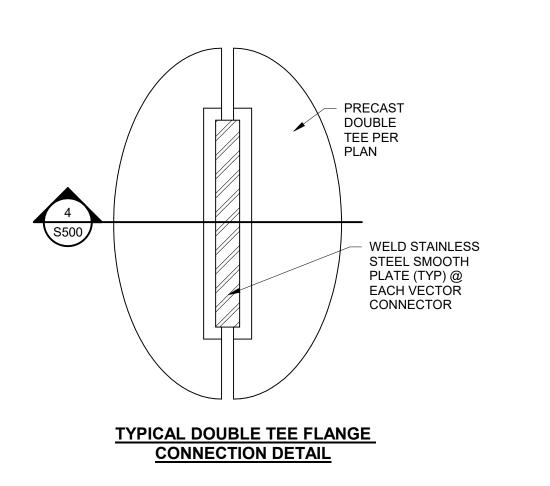


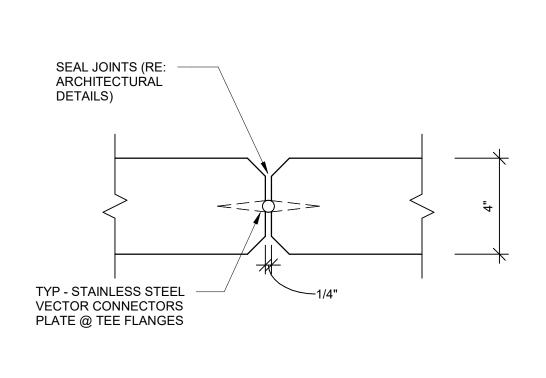
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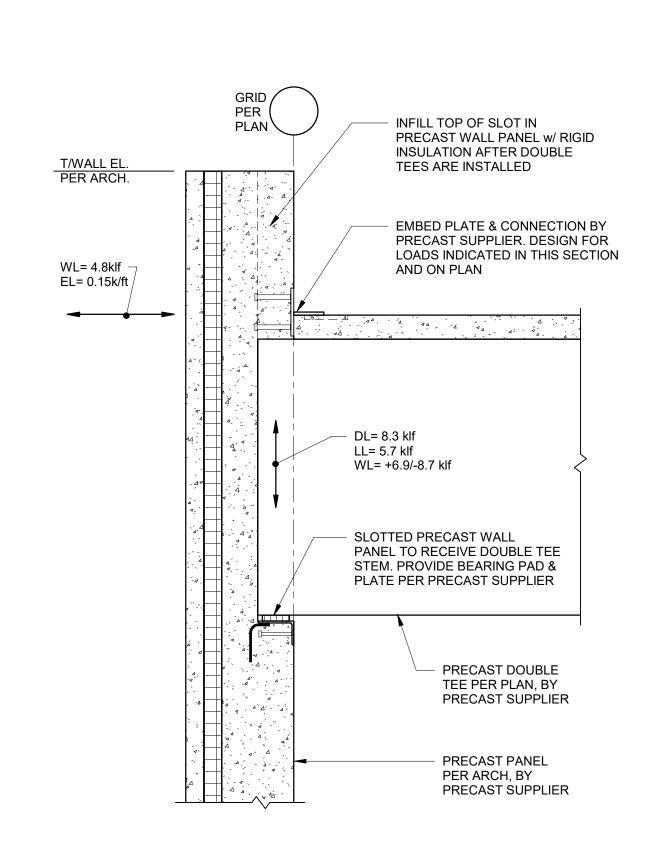


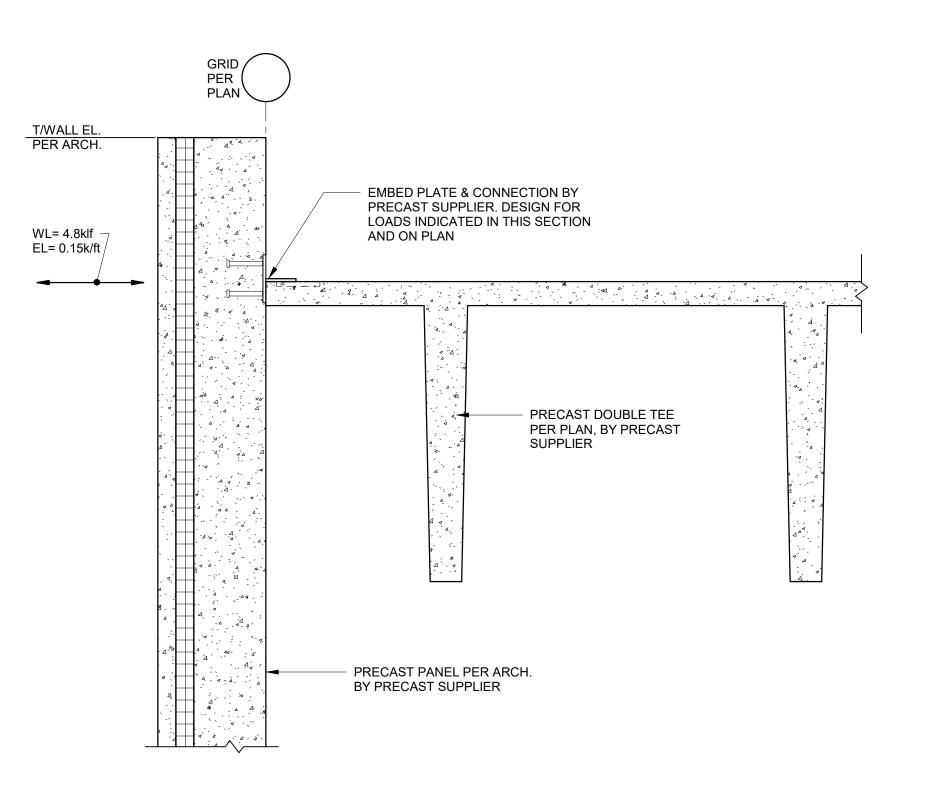


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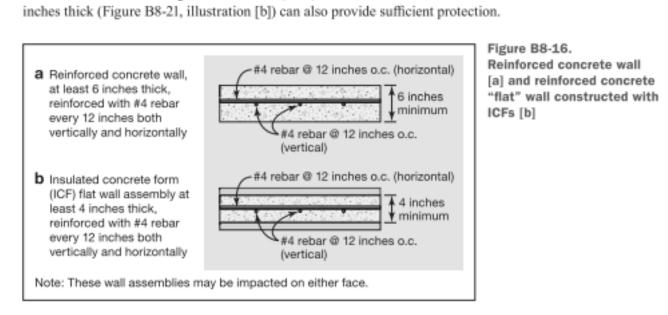
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IMPACT RESISTANCE OF CONCRETE WALL ASSEMBILES

Test results from a number of investigations (Twisdale and Dunn, 1981) suggest that 6-inch-thick reinforced concrete walls are needed to stop a 15-pound wood 2x4 test missile impacting at 100 mph without threshold spalling. TTU research indicates that a 6-inch reinforced concrete wall (Figure B8-16, illustrations [a] and [b]) can resist this test missile). Reinforced concrete walls constructed with insulating concrete forms (ICFs) with a uniform concrete section at least 4 inches thick (Figure B8-21, illustration [b]) can also provide sufficient protection.



IMPACT RESISTANCE OF CONCRETE ROOF ASSEMBILES

The TTU research also shows that a 4-inch-thick reinforced concrete roof slab on removable forms or on steel decking is able to resist a 15-pound wood 2x4 test missile impacting at 67 mph (the free-falling missile impact speed given in Tables B3-3 through B3-5). For more detail on wall and roof assemblies that have passed the tornado missile impact test, see "Wall Sections that Passed Previous Missile Impact Tests" on the safe room website at https://www.fema.gov/ emergency-managers/risk-management/safe-rooms/resources.

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Hollis + Miller Architects Missouri State Certificate of Authority Architecture # 0000161

Structure # 2006031333

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

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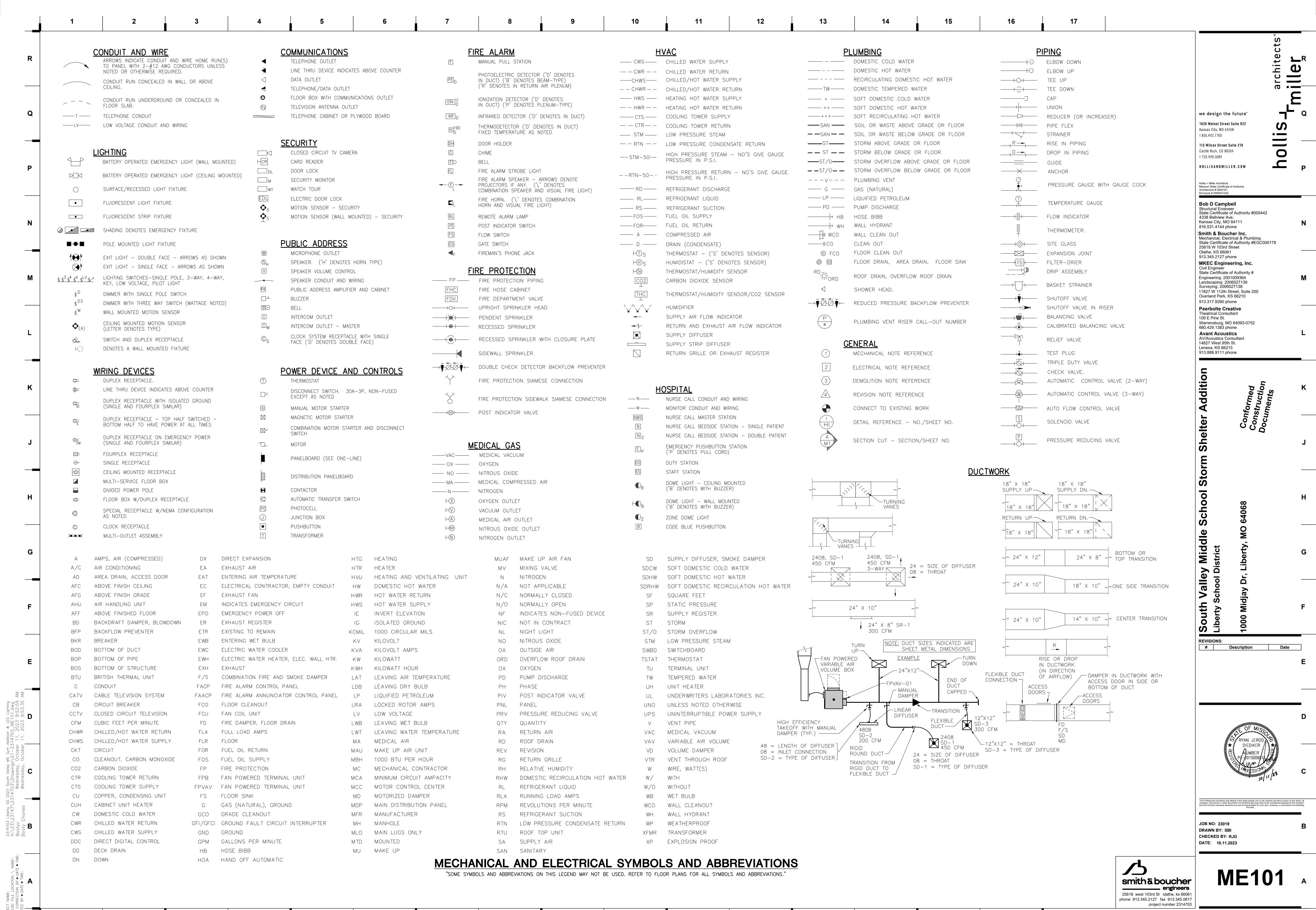
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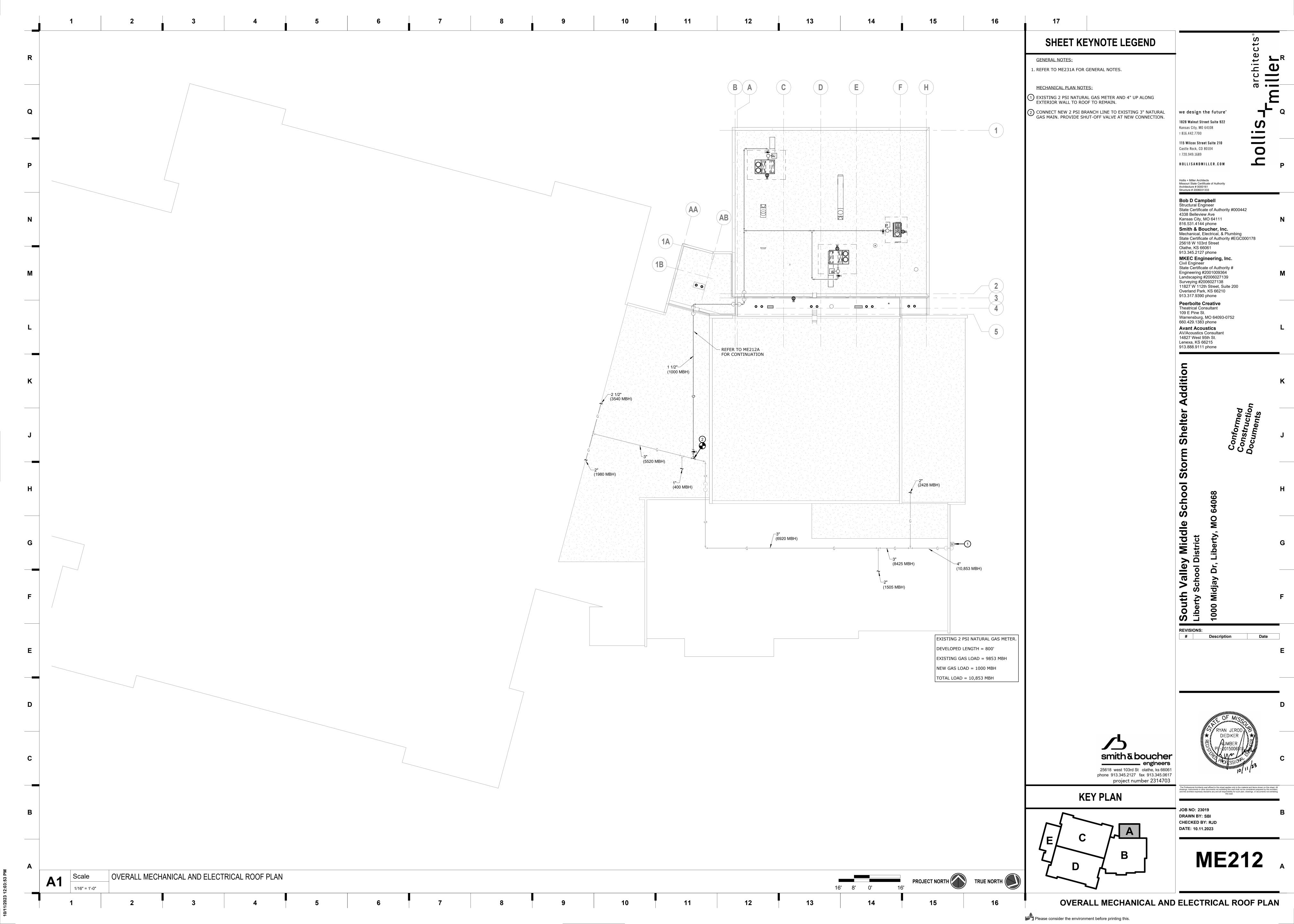
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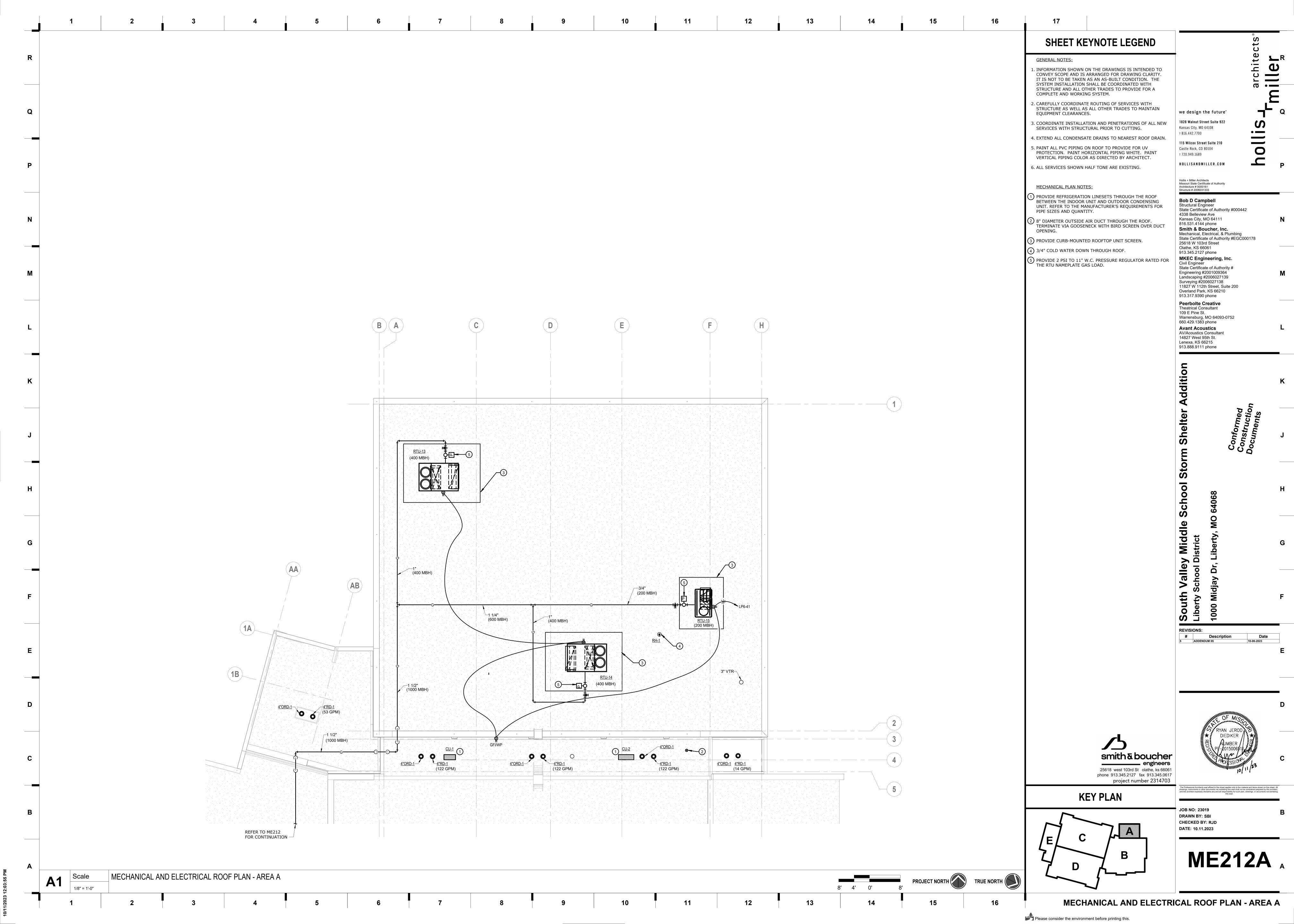
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STORM SHELTER DETAILS



16 **MECHANICAL AND ELECTRICAL - SYMBOLS AND ABBREVIATIONS**





| | NATIONAL TER LIEA | TED ELEO | l |
|---------------|-----------------------------|-------------------|---------------|
| שע | DMESTIC WATER HEA | TER - ELEC | DRAI |
| DES | IGNATION | EWH-5 | MARK |
| | MANUFACTURER | A.O. SMITH | FD-1 |
| | MODEL | DEL-20S | RD-1 |
| ⋖ | CAPACITY (GALLONS) | 20 | ORD-1 |
| DATA | RECOVERY @ 100°F RISE (GPH) | 19 | |
| TINO | OUTLET TEMP. (°F) | 140 | DSN-1 |
|] | ELEMENTS (NO.) | 1 | NOTES: |
| | TOTAL INPUT (KW) | 4.5 | 1: |
| | VOLTS/PHASE | | |
| SOL | PANEL & CIRCUIT | HP6-3 | |
| ONTF | WIRE & CONDUIT | (2)#10,#10G,1/2"C | |
| ELEC./CONTROL | OVERCURRENT DEVICE | 25A-1P CB | |
| ITB | DISCONNECT | 30A-1P NF | |
| REF | ERENCE DRAWING/DETAIL | P101A | |

PLUMBING DRAWDOWN TANK SCHEDULE

DESIGNATION

LOCATION

MANUFACTURER

PRECHARGE PRESSURE (PSIG)

MAX. PRESSURE (PSIG)

USEABLE VOLUME (GAL)

TANK TOTAL VOLUME (GAL)

MODEL. NO.

HEIGHT (IN.)

REMARKS

DIAMETER (IN.) WEIGHT (LB)

REFERENCE DRAWING/DETAIL

SERVICE

| DKA | IN SCHEDULE | |
|-------|---------------------|---|
| MARK | MANUFACTURER/ MODEL | DESCRIPTION |
| FD-1 | ZURN Z415S | CAST IRON DRAIN WITH ADJUSTABLE TOP AND 6" NICKEL BRASS STRAINER WITH VANDAL RESISTANT SCREWS. |
| RD-1 | ZURN ZZC100NH | CAST IRON ROOF DRAIN WITH CAST IRON DOME STRAINER, ADJUSTABLE ROOF FLANGE AND VANDAL RESISTANT SCREWS. |
| ORD-1 | ZURN ZZC100NHW2 | CAST IRON ROOF DRAIN WITH CAST IRON DOME STRAINER, ADJUSTABLE ROOF FLANGE AND VANDAL RESISTANT SCREWS |
| DSN-1 | ZURN ZZARB199NH | CAST BRONZE DOWNSPOUT NOZZLE WITH NO-HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL |

| NO | IES: |
|----|---|
| | 1: PROVIDE FLOOR DRAIN WITH SURE SEAL TRAP SEALER OR EQUAL. |

| DESI | GNATION | HWCP-5 |
|--------------------|-----------------------|--------------------|
| | MANUFACTURER | BELL & GOSSET |
| | LOCATION | MECH |
| | MODEL NO. | NBF-36 |
| ⋖ | SERVICE | DOM. HOT WATE |
| UNIT DATA | PUMP TYPE | IN-LINE |
| Ħ | GPM | 5 |
| - | PUMP HEAD (FT.) | 25 |
| | MOTOR HORSEPOWER | 1/6 |
| | MOTOR RPM | 1725 |
| | VOLTAGE/PHASE | 120/1 |
| × | PANEL & CIRCUIT | LP6-43 |
| ELEC./CONTROL DATA | WIRE & CONDUIT | (2)#12,#12G.,1/2"(|
| 3OL | OVERCURRENT DEVICE | 15A-1P CB |
| N | DISCONNECT | NOTE 1 |
| 22/3 | STARTER | |
| ËE | COMBINATION STARTER | |
| | CONTROL | AQUASTAT |
| REF | ERENCE DRAWING/DETAIL | P101A |
| REM | ARKS | NOTE 1 |

| SERVICE | PIPE SIZE | INSULATION | NOTES |
|---|-------------------|--|---------|
| DOMESTIC COLD WATER | 1/2" - 1-1/4" | 1/2" FIBERGLASS, ASJ | 1,2,3,4 |
| | 1-1/2" AND LARGER | 1" FIBERGLASS, ASJ | |
| DOMESTIC HOT WATER | 1/2" - 1-1/4" | 1" FIBERGLASS, ASJ | 1,2,3 |
| RECIRCULATING HOT WATER | 1-1/2" AND LARGER | 1-1/2" FIBERGLASS, ASJ | |
| EXPOSED FIXTURE WASTETRAPS AND DOMESTIC HOT WATER | A.1. | TRUBRO LAV AGUARD MOLDED PROTECTIVE PIPE COVER | |
| AT HANDICAPPED ACCESSIBLE SINKS AND LAVATORIES | ALL | OVER 1/2" FIBERGLASS INSULATION | |

1: FOR ALL PIPING 2-1/2" AND LARGER, PROVIDE CALCIUM SILICATE INSERTS AT ALL HANGERS AND SUPPORT LOCATIONS.

ST-1

STORAGE

DOMESTIC WATER

WESSELS

FX 300V

200

P101A

_

- 2: ALL INSULATION SHALL HAVE A MAXIMUM OF 25 FLAME SPREAD/50 SMOKE DEVELOPMENT RATING.

| 3: ELBOW AND FITTIN | NG INSULATION SHALL BE OF SAME ⁻ | THICKNESS AS ADJACENT (| STRAIGHT PIPE INSULATION. |
|----------------------|---|-------------------------|------------------------------|
| 4: FITTING INSULATIO | N TO HAVE ASJ OR SUPPLEMENTAL | VAPOR BARRIER SEALED | TO ADJACENT PIPE INSULATION. |

| HVAC PIPE INSULATION SCHEDULE | | | | | | | |
|-------------------------------|-------------------|--|---------|--|--|--|--|
| SERVICE | PIPE SIZE | INSULATION | NOTES | | | | |
| CONDENSATE DRAIN | 1/2" - 2" | 1/2" FIBERGLASS, ASJ | 1,2,3,4 | | | | |
| | 2-1/2" AND LARGER | 1" FIBERGLASS, ASJ | | | | | |
| REFRIGERANT SUCTION | ALL | 1/2"FLEXIBLE CLOSED CELL ELASTOMERIC, UV PAINT | 2,3 | | | | |
| REFRIGERANT HOT GAS | ALL | OUTDOORS | | | | | |

- 1: FOR ALL PIPING 2-1/2" AND LARGER, PROVIDE CALCIUM SILICATE OR CELLULAR GLASS INSERTS AT ALL HANGERS AND SUPPORT LOCATIONS.
- 2: ALL INSULATION SHALL HAVE A MAXIMUM OF 25 FLAME SPREAD/50 SMOKE DEVELOPMENT RATING.
- 3: ELBOW AND FITTING INSULATION SHALL BE OF SAME THICKNESS AS ADJACENT STRAIGHT PIPE INSULATION. 4: FITTING INSULATION TO HAVE ASJ OR SUPPLEMENTAL VAPOR BARRIER SEALED TO ADJACENT PIPE INSULATION.

| SERVICE | DUCT | | OTHER REQUIREMENTS | | |
|---------------------------------------|-------------------------|----------------|--------------------|---------------|--------------------------|
| | SHAPE | CLASSIFICATION | SEAL CLASS | LEAKAGE CLASS | |
| | RECTANGULAR | 2" WG POSITIVE | В | 12 | 1", 3LB DENSITY LINER |
| | (EXPOSED AND CONCEALED) | | | | PAINTABLE WHERE EXPOSED |
| SUPPLY AIR DUCTS (LOW PRESSURE) | ROUND | 2" WG POSITIVE | В | 3 | INSULATED - SEE SCHEDULE |
| SUFFET AIR DUCTS (LOW FRESSURE) | (CONCEALED) | | | | |
| | ROUND | 4" WG POSITIVE | В | 3 | PAINTABLE WHERE EXPOSED |
| | (EXPOSED) | SPIRAL SEAM | | | |
| RETURN AIR DUCTS | RECTANGULAR | 2" WG NEGATIVE | В | 12 | 1", 3LB DENSITY LINER |
| RETURN AIR DOCTS | (EXPOSED AND CONCEALED) | | | | PAINTABLE WHERE EXPOSED |
| TRANSFER AIR DUCTS | RECTANGULAR | 2" WG NEGATIVE | В | 12 | 1/2", 3LB DENSITY LINER |
| TRANSFER AIR DUCTS | RECTANGULAR | | | | PAINTABLE WHERE EXPOSED |
| | RECTANGULAR | 2" WG NEGATIVE | В | 12 | |
| GENERAL EXHAUST DUCTS TO THE INLET OF | (EXPOSED AND CONCEALED) | | | | PAINTABLE WHERE EXPOSED |
| THE FAN | ROUND | 4" WG NEGATIVE | А | 3 | |
| | (EXPOSED) | SPIRAL SEAM | | | PAINTABLE WHERE EXPOSED |

1: SEE DUCTWORK INSULATION SCHEDULE FOR REQUIREMENTS ON DUCT INSULATION

| SERVICE | INSULATION |
|--|--|
| CONCEALED DUCTWORK AS FOLLOWS: | 1-1/2", 1.5 LB. RIGID FIBERGLASS BLANKET, VAPOR BARRIER FACED, |
| ALL ROUND SUPPLY AIR AND UNLINED BRANCH TAKE-OFFS FOR ROUND DUCTS | WITH HEAVY DUTY FOIL-SCRIM-KRAFT FACING. |
| AND IN-LINE TRANSITIONS. | |
| EXHAUST AIR BETWEEN ISOLATION DAMPER AND PENTRATION OF BUILDING EXTERIOR | |

- 1: SEE DUCTWORK SCHEDULE FOR ITEMS THAT ARE TO BE LINED.
- 2: EXPOSED, LOW PRESSURE, ROUND AND FLAT OVAL SUPPLY AIR DUCTWORK IS NOT INSULATED.

| | | | FITTINGS | | | | ING CO | NNECTI | ONS |
|------------|----------------------|---|---------------------------------|--|-----------|------|--------|--------|-----|
| IARK | MFGR./ MODEL | DESCRIPTION | MANUFACTURER/MODEL | DESCRIPTION | NOTE | cw | HW | SAN | VE |
| VC-1 | ELKAY | ADA COMPLIANT TWO STATION WALL MOUNT WATER COOLER WITH | | | 1 | 1/2" | | 1-1/2" | 1- |
| | LZSTL8WSLK | BOTTLE FILLING STATION AND BARRIER FREE ACCESS. STAINLESS STEEL BASIN. | | | | | | | |
| | | FLEXI-GUARD SAFETY BUBBLER. HERMETICALLY-SEALED COMPRESSOR. | | | | | | | |
| <u>L-1</u> | SLOAN SS-3103 | ADA COMPLIANT WALL HUNG LAVATORY: WHITE VITREOUS CHINA, WITH SPLASHBACK AND FRONT OVERFLOW. SINGLE HOLE CENTERSET FAUCET. | CHICAGO FAUCETS 116.599.AB.1 | ADA COMPLIANT BATTERY OPERATED DUAL BEAM INFRARED SENSOR, CHROME PLATED DIE CAST METAL HAND WASHING FAUCET. METAL GRID DRAIN ASSEMBLY. 0.5GPM FLOW RATE. | 1,2,3,4,5 | 1/2" | 1/2" | 2" | |
| | | | WATTS MINIMIXING 2297321 | POINT OF USE THERMOSTATIC MIXING VALVE. CHROME FINISH. 1/2" FITTINGS. WALL MOUNTING PLATE. | | | | | |
| RH-1 | HOEPTNER | FREEZE-PROOF ROOF HYDRANT WITH RECESSED DRAIN RESERVOIR. | | | | 3/4" | | | + |
| | 2131RE | NO DRAIN REQUIRED. NO WINTERIZATION REQUIRED. | | | | | | | |
| <u>S-1</u> | MUSTEE | UTILITY SINK: FLOOR-MOUNTED, SINGLE COMPARTMENT, THERMOPLASTIC OR | CHICAGO FAUCETS | DECK MOUNTED GOOSENECK FAUCET WITH VANDAL PROOF WRISTBLADE | 3,4,5 | 1/2" | 1/2" | 2" | + |
| | 15F | POLYPROPYLENE TUB. (2) FAUCET HOLES ON 4" CENTERS. STEEL LEGS. | 895 | HANDLES. 4" FIXED CENTERS, 5" RIGID/SWING GOOSENECK SPOUT. 2.2GPM FLOW RATE. | | | | | |
| | | | WATTS MINIMIXING 2297321 | POINT OF USE THERMOSTATIC MIXING VALVE. CHROME FINISH. 1/2" FITTINGS. WALL MOUNTING PLATE. | | | | | |
| | | | STRIEM | BELOW SINK PLASTER TRAP WITH POLYCARBONATE PERFORATED BASKET. | | | | | |
| | | | SIDEKICK | BASKET SHALL BE INSTALLED FOR MAINTENANCE ACCESS. | | | | | |
| | | | SIDENION | BASKET SHALL BE CLEAR TO ALLOW VISIBILITY INTO THE UNIT. | | | | | |
| VC-1 | SLOAN | ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, WALL | SLOAN | ADA COMPLIANT, EXPOSED WATER CLOSET BATTERY OPERATED ELECTRONIC | | 1" | | 4" | + |
| | ST-2459 | MOUNTED, FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS. 1.6 GALLON SIPHON JET FLUSHING ACTION. | REGAL 111 SFSM-1.6 | FLUSH VALVE, CHROME PLATED METAL, WITH, 1" I.P.S. SCREWDRIVER BAK-CHE ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD, 1.6 | < | · | | | |
| | | | | GALLON FLUSH. | | | | | |
| | WADE | PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE. MOUNT TOP OF WATER CLOSET AT 18" AFF. | | PROVIDE WALL AND SPUD FLANGES. | | | | | |
| | | | | | | | | | |
| | CHURCH 9500C | SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS. | | | | | | | |
| NC-2 | SLOAN | WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, WALL MOUNTED, FLUSH VALVE | SLOAN | EXPOSED WATER CLOSET BATTERY OPERATED ELECTRONIC FLUSH VALVE, | | 1" | | 4" | Τ |
| | ST-2459 | BOWL WITH TOP SPUD AND FLAT BOLT COVERS. 1.6 GALLON SIPHON JET FLUSHING ACTION. | REGAL 111 SFSM-1.6 | CHROME PLATED METAL, WITH, 1" I.P.S. SCREWDRIVER BAK-CHEK ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH | | | | | |
| | WADE | PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE. | | CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD, 1.6 GALLON FLUSH. PROVIDE WALL AND SPUD FLANGES. | | | | | |
| | CHURCH 9500C | SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS. | | | | | | | |
| NH-1 | J.R. SMITH 5509QT | NON-FREEZE HYDRANT WITH INTEGRAL VACUUM BREAKER. | | - | - | 1/2" | | | t |

- 1: PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.
- 2: PROVIDE CHROME PLATED BRASS P-TRAP.

PLUMBING FIXTURE SCHEDULE

- 3: PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS. 4: INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS.
- 5: PROVIDE WITH ALL MOUNTING HARDWARE AS REQUIRED. FIXTURE STUDS AND NUTS SHALL BE STAINLESS STEEL.

| LOUVE | ER SCHE | DULE | | | | | | | | | | | |
|--------------|---------|------|--------------|-----------------|----------|------------------|-----------------------|-----------------------------|---------------------------|-------------------------|-----------------------|----------------------|---------------|
| PLAN MARK | SERVICE | TYPE | MANUFACTURER | MODEL NUMBER | MATERIAL | AIRFLOW (CFM) | MAX VELOCITY (FPM) | MAX PRESSURE DROP (W.G.) | MINIMUM FREE AREA (SF) | FREE AREA PERCENTAGE | LOUVER HEIGHT (FT) | LOUVER WIDTH (FT) | REMARKS |
| L-1 | SHELTER | OA | RUSKIN | XP-500-WD | ALUMINUM | 4450 | 1000 | 0.1 | 5.1 | 25% | 4 | 4.5 | 1, 2, 3, 4, 5 |
| L-2 | SHELTER | OA | RUSKIN | XP-500-WD | ALUMINUM | 4450 | 1000 | 0.1 | 5.1 | 25% | 4 | 4.5 | 1, 2, 3, 4, 5 |
| L-3 | SHELTER | EA | RUSKIN | XP-500-WD | ALUMINUM | 8900 | 1000 | 0.1 | 10.2 | 25% | 6 | 6 | 1, 2, 3, 4, 5 |
| L-4 | SHELTER | EA | RUSKIN | XP-500-WD | ALUMINUM | 300 | 1000 | 0.1 | 0.4 | 25% | 1.5 | 1.5 | 1, 2, 3, 4, 5 |
| L-5 | RTU-13 | SA | RUSKIN | XP500 | ALUMINUM | 8000 | 1100 | 0.3 | 7.3 | 50% | 6 | 2.67 | 3, 6 |
| L-6 | RTU-13 | RA | RUSKIN | XP500 | ALUMINUM | 8000 | 1100 | 0.3 | 7.3 | 50% | 6 | 2.67 | 3, 6 |
| L-7 | RTU-14 | SA | RUSKIN | XP500 | ALUMINUM | 8000 | 1100 | 0.3 | 7.3 | 50% | 6 | 2.67 | 3, 6 |
| L-8 | RTU-14 | RA | RUSKIN | XP500 | ALUMINUM | 8000 | 1100 | 0.3 | 7.3 | 50% | 6 | 2.67 | 3, 6 |
| L-9 | RTU-15 | SA | RUSKIN | XP500 | ALUMINUM | 3500 | 1100 | 0.3 | 3.2 | 50% | 2.67 | 2.67 | 3, 6 |
| L-10 | RTU-15 | RA | RUSKIN | XP500 | ALUMINUM | 3500 | 1100 | 0.3 | 3.2 | 50% | 2.67 | 2.67 | 3, 6 |

- 1: 1100 FPM BEGINNING POINT OF WATER PENETRATION.
- 2: PROVIDE WITH BIRD AND INSECT SCREEN. 3: PROVIDE MOTORIZED DAMPER AND ACTUATOR WITH TRANSFORMER.
- 4: ICC500 RATING AND WIND-DRIVEN RAIN RATING WITH OUT OF WALL MOUNTING. COORDINATE EXACT MOUNTING DETAIL TO BE FLUSH WITH EXTERIOR SURFACE. 5: FINISH COLOR SHALL BE SELECTED BY ARCHITECT.
- 6: ICC500 RATING WITH OUT OF WALL MOUNTING. COORDINATE EXACT MOUNTING DETAIL TO BE FLUSH WITH EXTERIOR SURFACE.

| ΑII | AIR CONDITIONING UNIT SCHEDULE | | | | | | | |
|-------------|----------------------------------|-------------------|-----------------|--|--|--|--|--|
| INDOOR UNIT | | | | | | | | |
| DES | GNATION | AC-1 | AC-2 | | | | | |
| | MANUFACTURER | MITSUBISHI | MITSUBISHI | | | | | |
| 4 | TYPE | WALL | DUCTED | | | | | |
| | MODEL | PKA-A18LA | PEAD-A36AA8 | | | | | |
| | СЕМ | 455 | 1080 | | | | | |
| DATA | OSA CFM | - | 30 | | | | | |
| L | TOTAL COOLING CAP (MBH) @ 95 DEG | 18 | 36 | | | | | |
| 5 | SEER/EER AT AHRI | 19.8 / 10.7 | 19.1 / 10.0 | | | | | |
| | TOTAL HEATING CAP (MBH) @ 47 DEG | - | 36.0 | | | | | |
| | TOTAL HEATING CAP (MBH) @ 17 DEG | - | 22.0 | | | | | |
| | HSPF AT AHRI | - | 10.8 | | | | | |
| | MCA | 1 | 1 | | | | | |
| ⋖ | VOLTAGE/PHASE | 208/1 | 208/1 | | | | | |
| DATA | PANEL AND CIRCUIT | NOTE 1 | NOTE 1 | | | | | |
| ELEC | WIRE AND CONDUIT | (2)#10,#10G,1/2"C | (2)#8,#10,3/4"C | | | | | |
| Ш | OVERCURRENT DEVICE | NOTE 1 | NOTE 1 | | | | | |
| | DISCONNECT | 30A-2P NF | 30A-2P NF | | | | | |
| REF | ERENCE DRAWING/DETAIL | M101A | M101A | | | | | |
| REM | ARKS | NOTE 3, 4 | NOTE 3, 4 | | | | | |
| OUT | DOOR UNIT | | | | | | | |
| DES | GNATION | CU-1 | CU-2 | | | | | |
| ТА | MANUFACTURER | MITSUBISHI | MITSUBISHI | | | | | |
| UNIT DATA | MODEL NO. | PUY-A18NKA7 | PUZ-A36NKA7 | | | | | |
| S | AMBIENT AIR TEMP (DEG F.) | 95 | 95 | | | | | |
| | МСА | 11 | 25 | | | | | |
| | MOCP | 28 | 31 | | | | | |
| ATA | VOLTAGE/PHASE | 208/1 | 208/1 | | | | | |
| ELEC DATA | PANEL AND CIRCUIT | LP6-44,46 | LP6-48,50 | | | | | |
| ELE | WIRE AND CONDUIT | (2)#10,#10G,1/2"C | (2)#8,#10,3/4"C | | | | | |
| | OVERCURRENT DEVICE | 25A-2P CB | 30A-2P CB | | | | | |
| | DISCONNECT | 30A-2P NEMA 3R | 60A-2P NEMA 3R | | | | | |
| REF | ERENCE DRAWING/DETAIL | ME231A | ME231A | | | | | |
| | | | | | | | | |

- NOTE 2 1: INDOOR UNIT CIRCUITED THROUGH OUTDOOR UNIT.
- 2: PROVIDE WIND BAFFLE FOR LOW AMBIENT OPERATION. 3: PROVIDE PROGRAMMABLE, WALL-MOUNTED CONTROLLER.
- 4: PROVIDE CONDENSATE PUMP.

| AN SCHEDULE | | | UN | IT HEATER SCHED | ULE - ELEC | | |
|------------------------|-------------------|------------------|---------------------|----------------------|-------------------|--|--|
| SIGNATION | EF-16 | EF-17 | DESIGNATION | | ECUH-1 | | |
| N TYPE | INLINE | INLINE | HEAT | HORIZONTAL | | | |
| RVICE | STORM SHELTER | RESTROOMS | LOCA | VESTIBULE | | | |
| NUFACTURER | GREENHECK | GREENHECK | MOUN | ITING | SEMI-RECESSEI | | |
| DEL | SQ-27-M2 | SQ-98-VG | MANU | MANUFACTURER | | | |
| CFM | 8900 | 300 | MODE | L | T33D05 | | |
| STATIC PRESSURE | 1.0 | 0.5 | | CFM | 250 | | |
| FAN RPM | 860 | 1312 | l ≰ F | AN DRIVE | DIRECT | | |
| BRAKE HORSEPOWER | 2.8 | 0.09 | I DATA | HEATER KW | 5.0 | | |
| MOTOR HORSEPOWER | 3 | 0.25 | | AMPS | 19 | | |
| VOLTAGE/PHASE | 460/3 | 115/1 | | /OLTAGE/PHASE | 277/1 | | |
| DRIVE | DIRECT | DIRECT | d F | PANEL & CIRCUIT | HP6-6 | | |
| PANEL & CIRCUIT | INV-1,3,5 | LP-41 | DATA | WIRE & CONDUIT | (2)#10,#10G,1/2"(| | |
| WIRE & CONDUIT | (3)#12,#12G,1/2"C | (2)#12,#12,1/2"C | | | , , , , , | | |
| OVERCURRENT DEVICE | 20A-3P CB | 15A-1P CB | EC./CTRL | OVERCURRENT DEVICE | 25A-1P CB | | |
| DISCONNECT | 30A-3P NF | 20A-2P NF | <u> </u> <u> </u> | DISCONNECT | 30A-1P NF | | |
| COMBINATION STARTER | VFD | | | CONTROL | | | |
| CONTROL | M301 M301 | | REFE | RENCE DRAWING/DETAIL | M101A | | |
| FERENCE DRAWING/DETAIL | M101A | M101A | REMA | RKS | NOTE 1 | | |
| MARKS | NOTE 1, 2 | NOTE 1 | NOTE | S: | • | | |

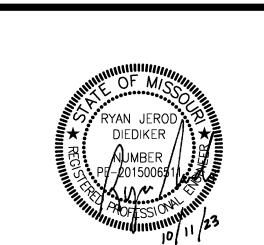
1: PROVIDE BIRD SCREEN AND BACKDRAFT DAMPER.

| 2: PROVI | 2: PROVIDE VARIABLE FREQUENCY DRIVE (VFD). | | | | | | | | | | | | | | |
|--------------|--|---------|-------------|------------------|----------|--------|-----------|--|--|--|--|--|--|--|--|
| GRILL | GRILLE, REGISTER & DIFFUSER SCHEDULE | | | | | | | | | | | | | | |
| PLAN MARK | MANUFACTURER MODEL NUMBER | SERVICE | MOUNT TYPE | VOLUME DAMPER | MATERIAL | COLOR | REMARKS | | | | | | | | |
| SD-1 | TITUS TMS | SUPPLY | LAY-IN | NO | STEEL | WHITE | NOTE 1 | | | | | | | | |
| SD-2 | TITUS 300RL | SUPPLY | DUCT | YES | STEEL | NOTE 2 | NOTE 1, 3 | | | | | | | | |
| SD-3 | TITUS US-DL | SUPPLY | SPIRAL DUCT | YES | STEEL | NOTE 2 | NOTE 1 | | | | | | | | |
| RG-1 | TITUS 350RL | RETURN | LAY-IN | NO | STEEL | WHITE | NOTE 1, 4 | | | | | | | | |
| RG-2 | TITUS 350RL | RETURN | DUCT/WALL | NO | STEEL | NOTE 2 | NOTE 1, 4 | | | | | | | | |
| EG-1 | TITUS 350RL | EXHAUST | LAY-IN | YES | STEEL | WHITE | NOTE 1, 4 | | | | | | | | |
| EG-2 | TITUS 350RL | EXHAUST | DUCT/WALL | YES | STEEL | NOTE 2 | NOTE 1, 4 | | | | | | | | |

- 1: REFER TO THE PLANS FOR FACE SIZE AND DUCT CONNECTION SIZE.
- 2: FINISH COLOR SHALL BE SELECTED BY ARCHITECT.
- 3: PROVIDE ADJUSTIBLE DOUBLE DEFLECTION BLADES WITH FRONT BLADES PARALLEL TO LONG
- DIMENSION AND NO SCREW HOLES. 4: PROVIDE SINGLE DEFLECTION BLADES PARALLEL TO THE LONG DIMENSION AND NO SCREW HOLES.

| | | | Shelter Addition | | Conformed | Documents | ? |
|----|----|---|--|---|--|---------------------|----|
| | | ; | AV/Acou 14827 W Lenexa, I | Acoustics stics Consu est 95th St. KS 66215 9111 phone | ıltant | | |
| | | | Peerbo Theatrica 109 E Pir Warrensl 660.429. | ourg, MO 64 1383 phone | ve nt 4093-075 | 2 | |
| 4" | 2" | | MKEC I Civil Eng State Ce Engineer Landscar Surveyin 11827 W Overland | 2127 phone Engineeri ineer rtificate of A ing: 200100 bing: 20060 g: 2006027 112th Stree Park, KS 6 | ing, Inc. Authority # 19364 27139 138 et, Suite 2 | ‡ | |
| 4" | 2" | | Smith 8 Mechanio State Ce | 4144 phone A Boucher Cal, Electricate rtificate of A 103rd Stre | r Inc. al & Plum authority # | | 78 |
| | | | Architecture # 20 Bob D (Structura State Ce) 4338 Bel | e Certificate of Au # 0000161 | authority # | / 000442 | |
| 2" | 2" | | т 720.949. | | . C O M | | 7 |
| - | _ | s | | 7700 3 Street Suite k, CO 80104 | 210 | | |
| | | | 1828 Waln Kansas Cit | ign the fu ut Street Sui y, MO 64108 | | | (|
| | | | | lan aha fu | .4 | | i |

REVISIONS: # Description ADDENDUM 05



JOB NO: 23019 DRAWN BY: SBI CHECKED BY: RJD

DATE: 10.11.2023

smith & boucher _____ engineers

25618 west 103rd St olathe, ks 66061 phone 913.345.2127 fax 913.345.0617

project number 2314703

1: FURNISH WITH INTEGRAL THERMOSTAT.

| DESIGI | NATION | DS-1 | DS-2 | DS-3 | DS-4 | DS-5 | DS-6 |
|-----------------------------|--|----------|----------|----------|----------|----------|--------|
| | MANUFACTURER | PRICE | PRICE | PRICE | PRICE | PRICE | IAC |
| | MODEL NO. | RLX96/7D | RLX72/7C | RLX96/7D | RLX72/7C | RLX36/7C | LFL |
| | ASSOCIATED EQUIPMENT | RTU-13 | RTU-13 | RTU-14 | RTU-14 | RTU-15 | RTU-15 |
| | AIRFLOW TYPE | SUPPLY | RETURN | SUPPLY | RETURN | SUPPLY | RETURN |
| | SILENCER WIDTH (IN) | 46 | 46 | 46 | 46 | 36 | 36 |
| | SILENCER HEIGHT (IN) | 14 | 14 | 14 | 14 | 14 | 14 |
| ╘ | SILENCER LENGTH (IN) | 96 | 72 | 96 | 72 | 36 | 36 |
| LIND | СҒМ | 8000 | 8000 | 8000 | 8000 | 3500 | 3500 |
| | SILENCER FACE VELOCITY (FPM) | 1790 | 1790 | 1790 | 1790 | 1000 | 1000 |
| | EQUIVALENT DIAMETER (IN) | 29 | 29 | 29 | 29 | 24 | 24 |
| | MINIMUM INSTALLED STRAIGHT DUCT UPSTREAM OF SILENCER | 90 | 90 | 90 | 90 | 48 | 48 |
| | MINIMUM INSTALLED STRAIGHT DUCT DOWNSTREAM OF SILENCER | 24 | 0 | 24 | 0 | 12 | 0 |
| | INSTALLED PRESSURE DROP (IN. W.C.) | 0.25 | 0.25 | 0.25 | 0.25 | 0.08 | 0.13 |
| } | 63 HZ | 11 | 8 | 11 | 8 | 5 | 6 |
| ≈ 5 | 125 HZ 250 HZ | 18 | 14 | 18 | 14 | 7 | 10 |
| S (DB) | 250 HZ | 32 | 24 | 32 | 24 | 13 | 16 |
| ERTION LOSS | 500 HZ | 46 | 36 | 46 | 36 | 20 | 24 |
| NOIT | 1 KHZ | 40 | 31 | 40 | 31 | 16 | 21 |
| | 3 _{2 KHZ} | 29 | 21 | 29 | 21 | 13 | 16 |
| = ; | 4 KHZ | 20 | 14 | 20 | 14 | 11 | 13 |
| | 8 KHZ | 14 | 11 | 14 | 11 | 9 | 10 |
| <u>6</u> | 63 HZ | 53 | 44 | 53 | 44 | 34 | 34 |
| EL (C | 125 HZ | 36 | 36 | 36 | 36 | 20 | 27 |
| LEV | 250 HZ | 38 | 39 | 38 | 39 | 18 | 31 |
| WER | 500 HZ | 43 | 42 | 43 | 42 | 28 | 37 |
| E PO | 1 KHZ | 44 | 41 | 44 | 41 | 27 | 35 |
| SELF-NOISE POWER LEVEL (DB) | 63 HZ 125 HZ 250 HZ 500 HZ 1 KHZ 2 KHZ 4 KHZ 8 KHZ | 42 | 42 | 42 | 42 | 21 | 32 |
| ELF- | 4 KHZ | 37 | 35 | 37 | 35 | 10 | 21 |
| S | 8 KHZ | 30 | 28 | 30 | 28 | 10 | 15 |
| REFER | ENCE DRAWING/DETAIL | M101A | M101A | M101A | M101A | M101A | M101A |

12

11

REMARKS

2: INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

14

1: CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE MINIMUM LENGTHS OF STRAIGHT DUCT BEFORE AND AFTER DUCT SILENCERS ARE MET AS A MINIMUM REQUIREMENT OF INSTALLATION. THESE LENGTHS MUST BE ACHIEVED TO ENSURE THAT THE INSTALLED PRESSURE DROP OF THE DUCT SILENCER MEETS DESIGN ALLOWANCES AS SCHEDULED. ALTERNATE MANUFACTURERS MUST MEET THE STATED DIMENSIONS AND PERFORMANCE CRITERIA, NO EXCEPTIONS WILL BE ALLOWED.

NOTE 1, 2 NOTE 1, 2

| DES | IGNATION | RTU-13 | RTU-14 | RTU-15 | | |
|-----------------------|------------------------------------|-------------------|-------------------|------------------|--|--|
| | MANUFACTURER | TRANE | TRANE | TRANE | | |
| Υ | MODEL NUMBER | YHJ300A4S0H | YHJ300A4S0H | YHJ120A4S0M | | |
| UNIT DATA | NOMINAL TONS | 25 | 25 | 10 | | |
| N N | UNIT WEIGHT (LBS.) | 4715 | 4715 | 2665 | | |
| <u>S</u> | AREA SERVED | GYM | GYM | STAGE | | |
| | SUPPLY AIRFLOW (CFM) | 8,000 | 8,000 | 3,500 | | |
| | OUTSIDE AIRFLOW (CFM) | 2,400 | 2,400 | 1,050 | | |
| Ζ | MINIMUM CO2 OUTSIDE AIRFLOW (CFM) | 675 | 675 | 200 | | |
| SUPPLY FAN | | | | | | |
| PPL | EXTERNAL STATIC PRESSURE (IN.W.C.) | 1.45 | 1.45 | 1.4 | | |
| SU | BRAKE HORSEPOWER | 2 @ 2.3 BHP | 2 @ 2.3 BHP | 2.59 | | |
| | MOTOR HORSEPOWER | 2 @ 3 HP | 2 @ 3 HP | 4.6 | | |
| | VFD | - | - | - | | |
| | AMBIENT AIR (DB) | 105 | 105 | 105 | | |
| | ENT. AIR (DB/WB) | 81.7 / 66.6 | 81.7 / 66.6 | 81.7 / 68.2 | | |
| 이 | LVG. AIR (DB/WB) | 56.9 / 56.1 | 56.9 / 56.1 | 58.4 / 57.6 | | |
| COOLING COIL | TOTAL COOLING CAPACITY (MBH) | 253.4 | 253.4 | 115.8 | | |
| Z | SENSIBLE COOLING CAPACITY (MBH) | 197.3 | 197.3 | 87.2 | | |
| ö | MINIMUM E.E.R. @ ARI | 10.6 | 10.6 | 11.4 | | |
| ă | REFRIGERANT | R410A | R410A | R410A | | |
| | NUMBER OF COMPRESSORS | 2 | 2 | 2 | | |
| | STAGES OF COOLING | 2 | 2 | 2 | | |
| | MINIMUM HEATING AIRFLOW (CFM) | 8000 | 8000 | 3500 | | |
| | ENT. AIR (DB) | 50.7 | 50.7 | 50.7 | | |
| ≣AT | LVG. AIR (DB) | 87.5 | 87.5 | 92.7 | | |
| GAS HEAT | HEATING INPUT (MBH) | 400 | 400 | 200 | | |
| Ğ | · , | | | 162 | | |
| | HEATING OUTPUT (MBH) | 324 | 324 | | | |
| | STAGES / MODULATION | MOD | MOD | MOD | | |
| RS | TYPE | 2" PLEATED | 2" PLEATED | 2" PLEATED | | |
| FILTERS | MERV RATING | MERV 13 | MERV 13 | MERV 13 | | |
| | MAX FACE VELOCITY (FPM) | 500 | 500 | 500 | | |
| | VOLTAGE/PHASE | 460/3 | 460/3 | 460/3 | | |
| | SCCR (KAIC) | 35 | 35 | 35 | | |
| Ä. | MCA | 60 | 60 | 30 | | |
| ELECT./CONT. | MOCP | 80 | 80 | 40 | | |
| ECT. | PANEL & CIRCUIT | HP6-25,27,29 | HP6-19,21,23 | HP6-13,15,17 | | |
| | WIRE & CONDUIT | (3)#3,#8G,1-1/4"C | (3)#3,#8G,1-1/4"C | (3)#8,#10G,3/4"C | | |
| | OVERCURRENT DEVICE | 80A-3P CB | 80A-3P CB | 40A-3P CB | | |
| | DISCONNECT | INTEGRAL | INTEGRAL | INTEGRAL | | |
| | CONTROL | NOTE 1 | NOTE 1 | NOTE 1 | | |
| | ECONOMIZER | ENTHALPY | ENTHALPY | ENTHALPY | | |
| S | SMOKE DETECTOR | NOTE 2 | NOTE 2 | NOTE 2 | | |
| OPTIONS | RECEPTACLE | NOTE 3 | NOTE 3 | NOTE 2 NOTE 3 | | |
| OPT | ROOF CURB | NOTE 4 | NOTE 4 | NOTE 4 | | |
| _ | RELIEF | NOTE 4 | NOTE 4 | NOTE 4 | | |
| | HOT GAS REHEAT | NOTE 7 | NOTE 7 | NOTE 7 | | |
| | | 87 | 87 | 86 | | |
| Ω̈́ | 63 HZ | | 96 | 93 | | |
| DUCTED DISCHARGE (dB) | 125 HZ | 96 | | | | |
| ARG | 250 HZ | 84 | 84 | 82 | | |
| SCH | 500 HZ | 76 | 76 | 75 | | |
| S DIS | 1 KHZ | 71 | 71 | 71 | | |
| ΉE | 2 KHZ | 67 | 67 | 67 | | |
| 200 | 4 KHZ | 68 | 68 | 67 | | |
| | 8 KHZ | 66 | 66 | 68 | | |
| | 63 HZ | 82 | 82 | 82 | | |
| <u>@</u> | 125 HZ | 86 | 86 | 79 | | |
| r (dE | 250 HZ | 80 | 80 | 76 | | |
| DUCTED INLET (dB) | 500 HZ | 80 | 80 | 64 | | |
| N O | 1 KHZ | 77 | 77 | 62 | | |
| CTE | 2 KHZ | 73 | 73 | 62 | | |
| ă | 4 KHZ | 70 | 70 | 60 | | |
| | 8 KHZ | 66 | 66 | 60 59 | | |
| | | | | | | |
| | ERENCE DRAWING/DETAIL | ME231A | ME231A | ME231A | | |
| REM | IARKS | NOTE 5, 8 | NOTE 5, 8 | NOTE 5, 8 | | |
| | | | | | | |

16

ROOFTOP UNIT SCHEDULE - DX COOLING / GAS HEATING

17

1: PROVIDE MANUFACTURER CONTROLLER WITH COMMUNICATION CARD SUITABLE FOR CONNECTION TO THE EXISTING BAS - TRANE CONTROLS.

2: SYSTEM DUCT MOUNTED SMOKE DETECTOR IN RETURN DUCT, PROVIDED BY FIRE ALARM CONTRACTOR. CONNECT TO RTU FOR SHUTDOWN AS REQUIRED. 3: FURNISH WITH MANUFACTURER PROVIDED NON-POWERED RECEPTACLE.

4: PROVIDE 24" TALL, VIBRATION ISOLATION ROOF CURB TO ALLOW FOR DUCT TRANSITIONS WITHIN THE CURB AND ABOVE THE ROOF. PROVIDE CURB-MOUNTED EQUIPMENT SCREEN BY CURBS-PLUS OR EQUAL. COORDINATE SCREEN FINISH COLOR WITH ARCHITECT.

5: PROVIDE HAIL GUARDS ON CONDENSER COILS. 6: PROVIDE BAROMETRIC RELIEF.

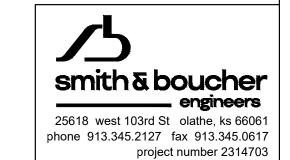
7: PROVIDE MODULATING HOT GAS REHEAT FOR DEHUMIDIFICATION.

8: UNIT NUMBERING SHALL CONTINUE FROM EXISTING BUILDING RTU DESIGNATIONS. THE DESIGNATIONS SHOWN ON THESE CONSTRUCTION DRAWINGS ARE FOR COORDINATION PURPOSES ONLY. COORDINATE WITH THE SCHOOL DISTRICT FOR EXACT RTU DESIGNATIONS.

| HIMINIOF MISSING | |
|--|--|
| OF M/SO RYAN JEROD DIEDIKER DIEDIKER PE-2015006511 | |
| 7 PF-2015006911 | |

The Professional Architects 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 architect, and this architect expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal.

JOB NO: 23019 DRAWN BY: SBI CHECKED BY: RJD DATE: 10.11.2023



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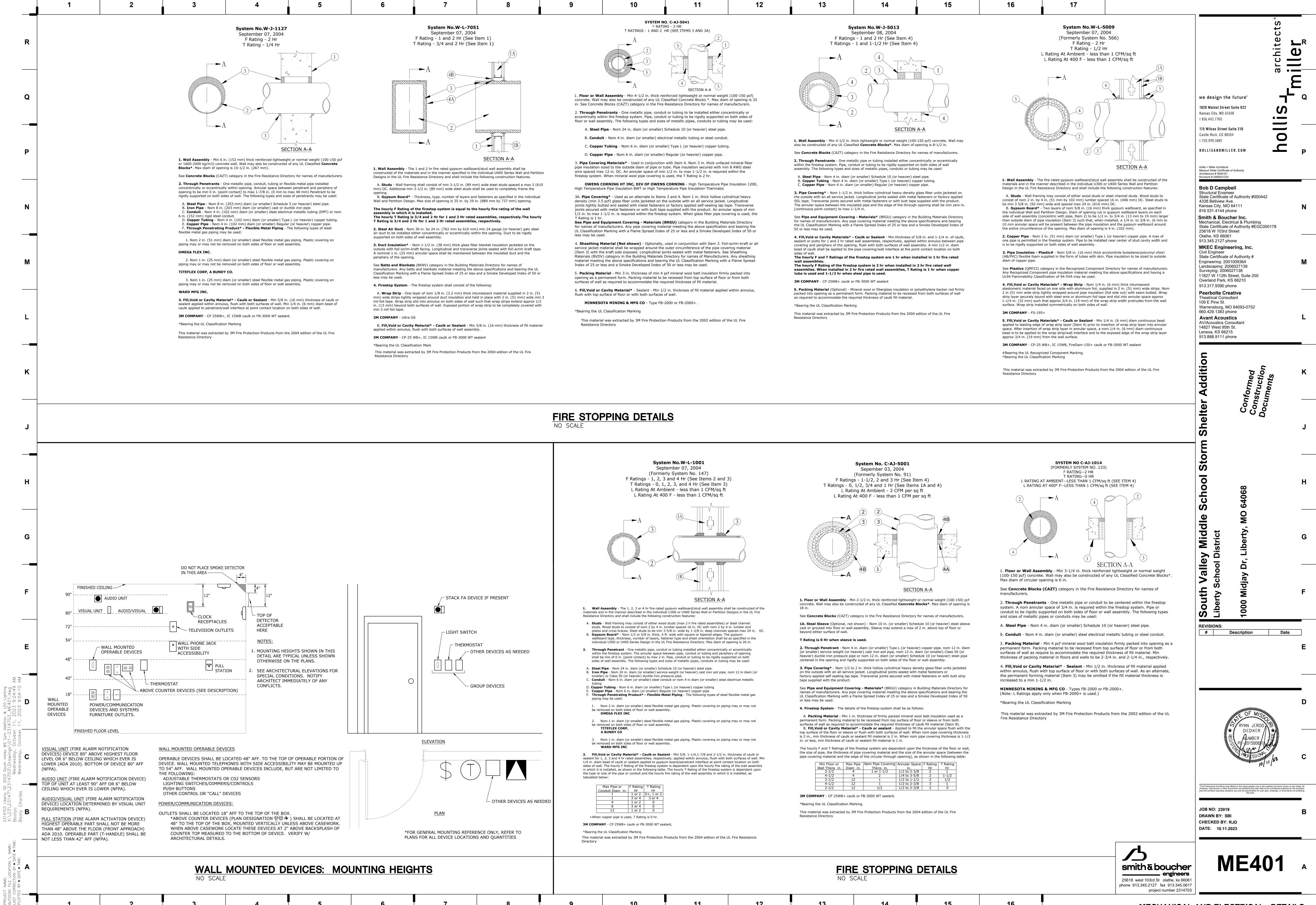
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MKEC Engineering, Inc. Civil Engineer
State Certificate of Authority # Engineering: 2001009364 Landscaping: 2006027139 Surveying: 2006027138 11827 W 112th Street, Suite 200 Overland Park, KS 66210 913.317.9390 phone

Peerbolte Creative Theatrical Consultant 109 E Pine St. Warrensburg, MO 64093-0752 660.429.1383 phone **Avant Acoustics** AV/Acoustics Consultant 14827 West 95th St. Lenexa, KS 66215 913.888.9111 phone

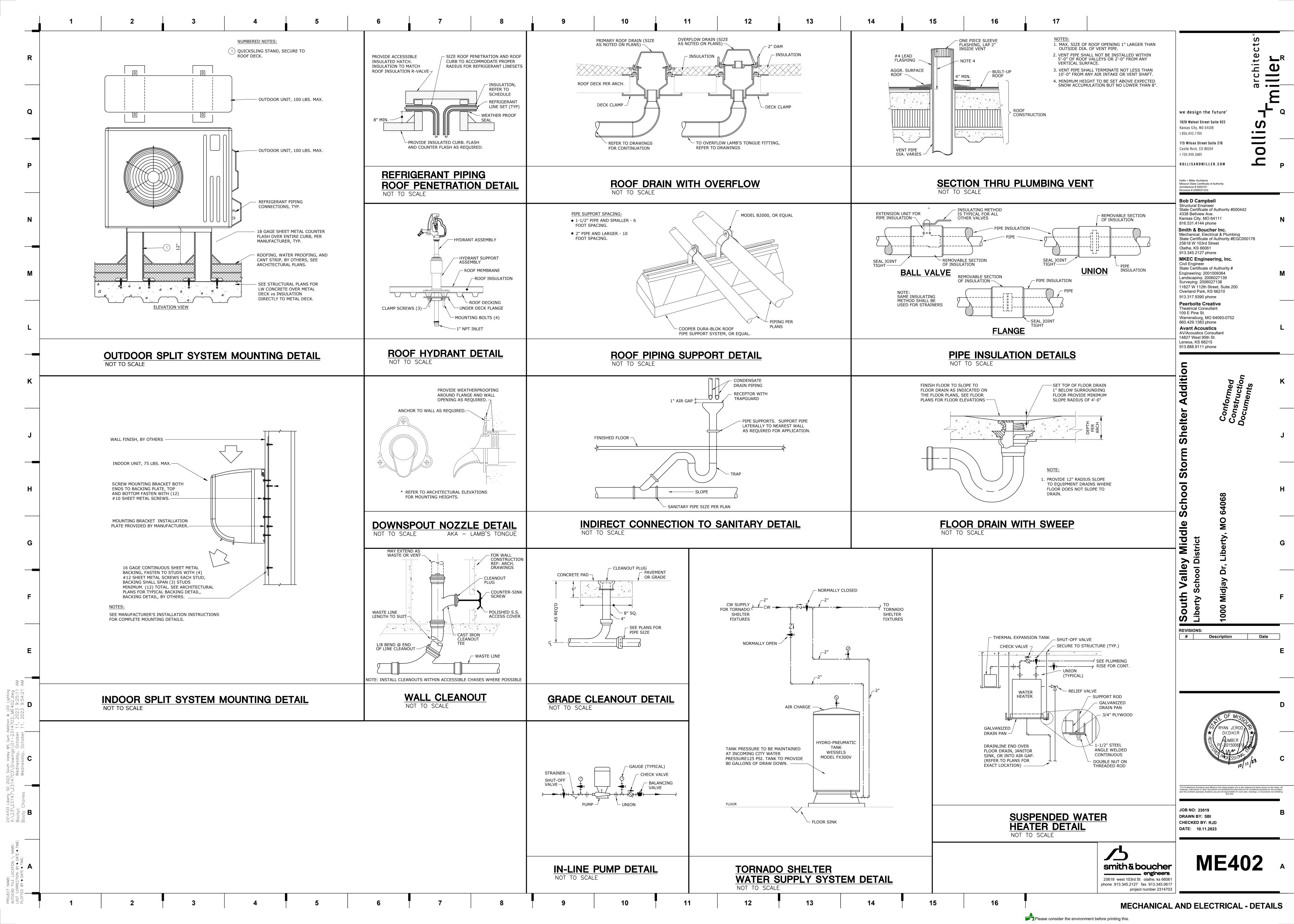
REVISIONS: # Description

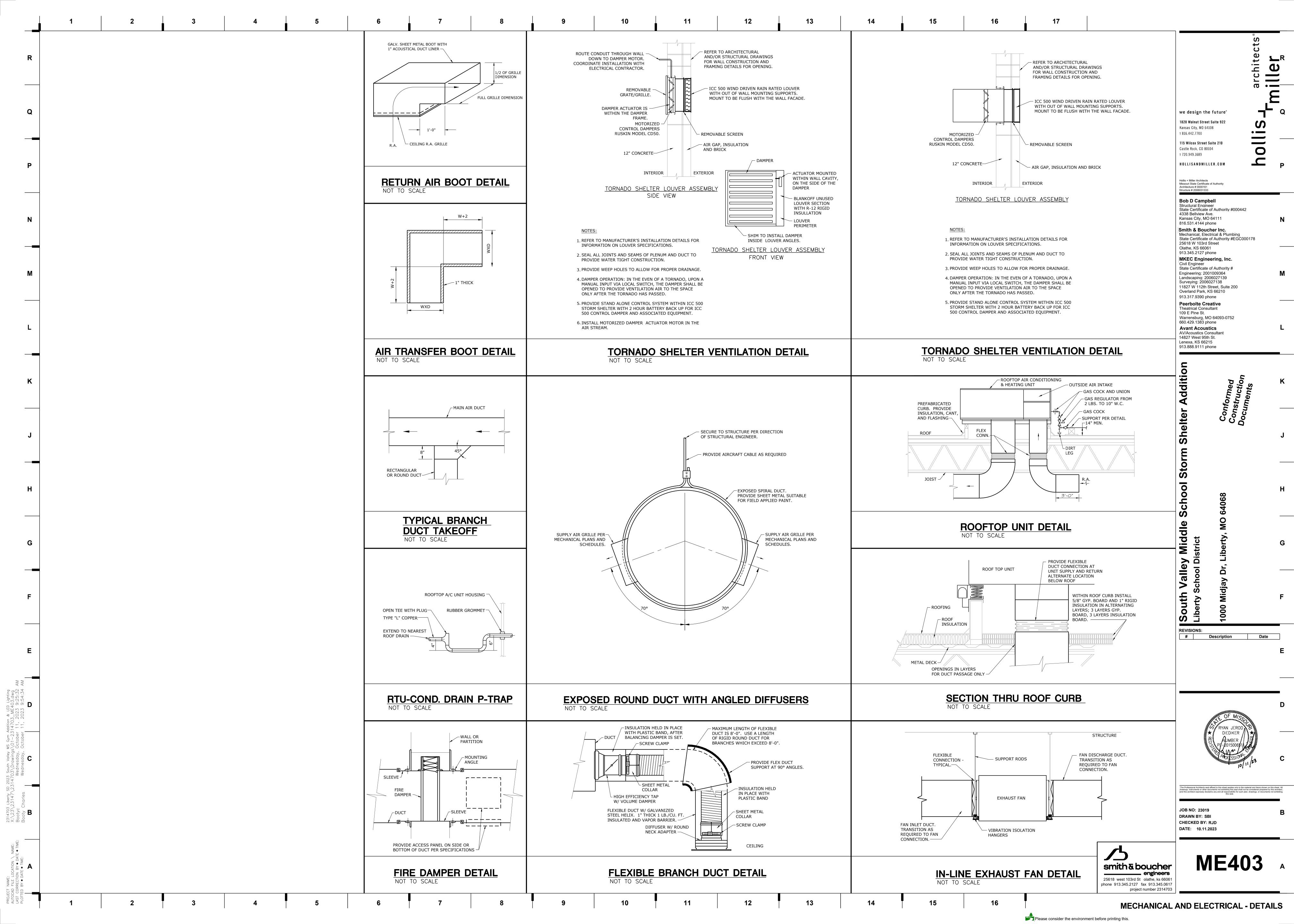
ADDENDUM 05

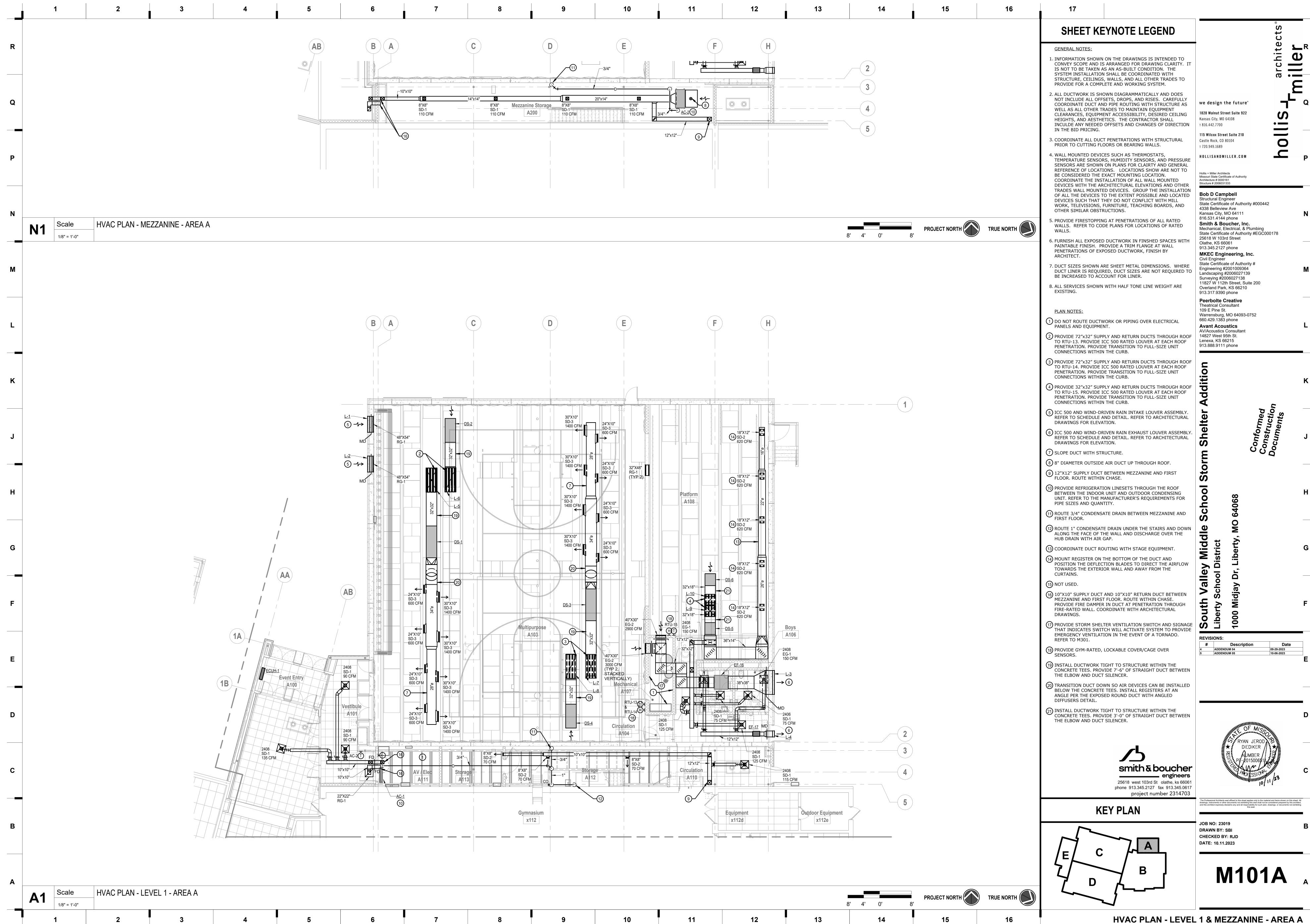


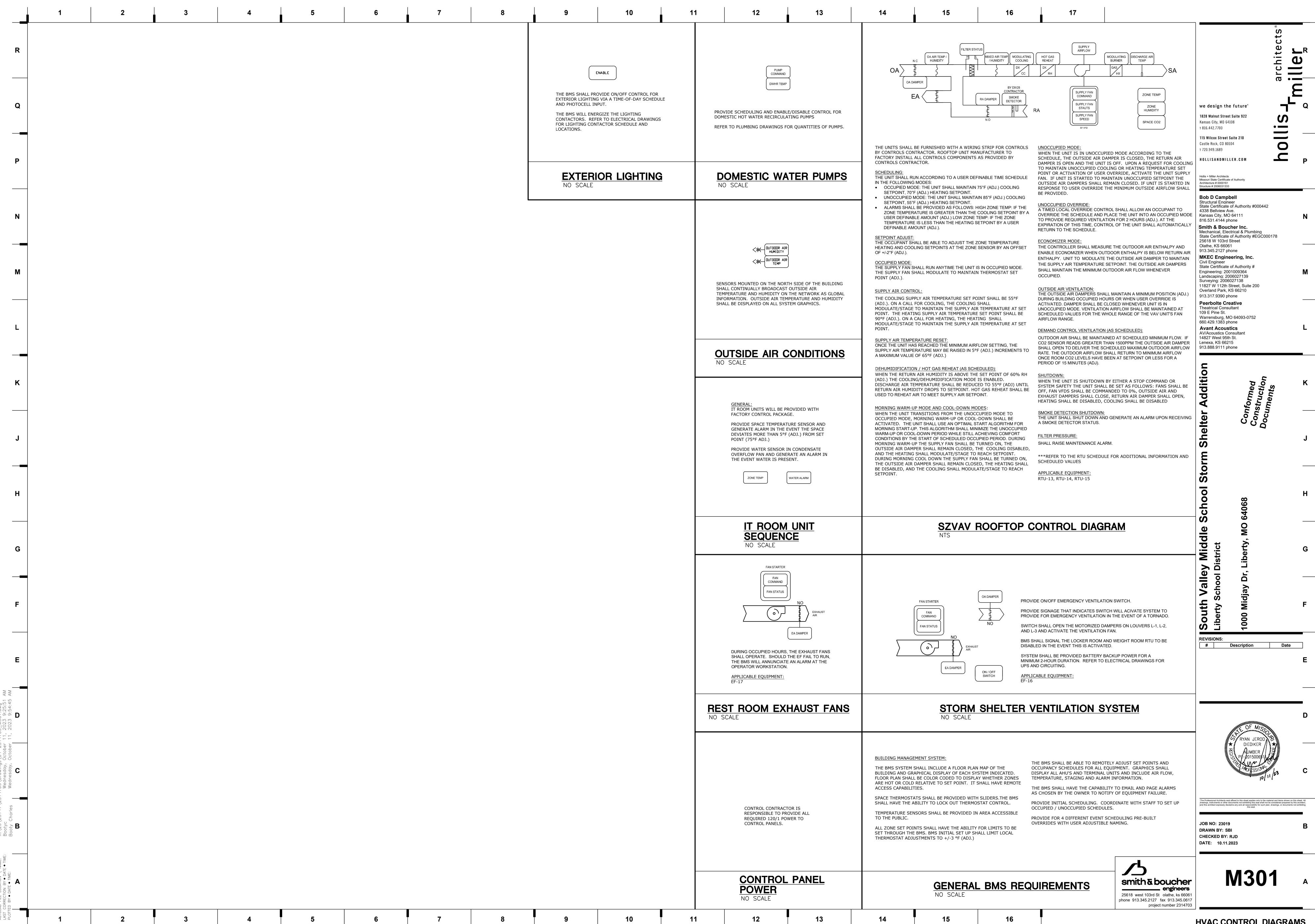
MECHANICAL AND ELECTRICAL - DETAILS

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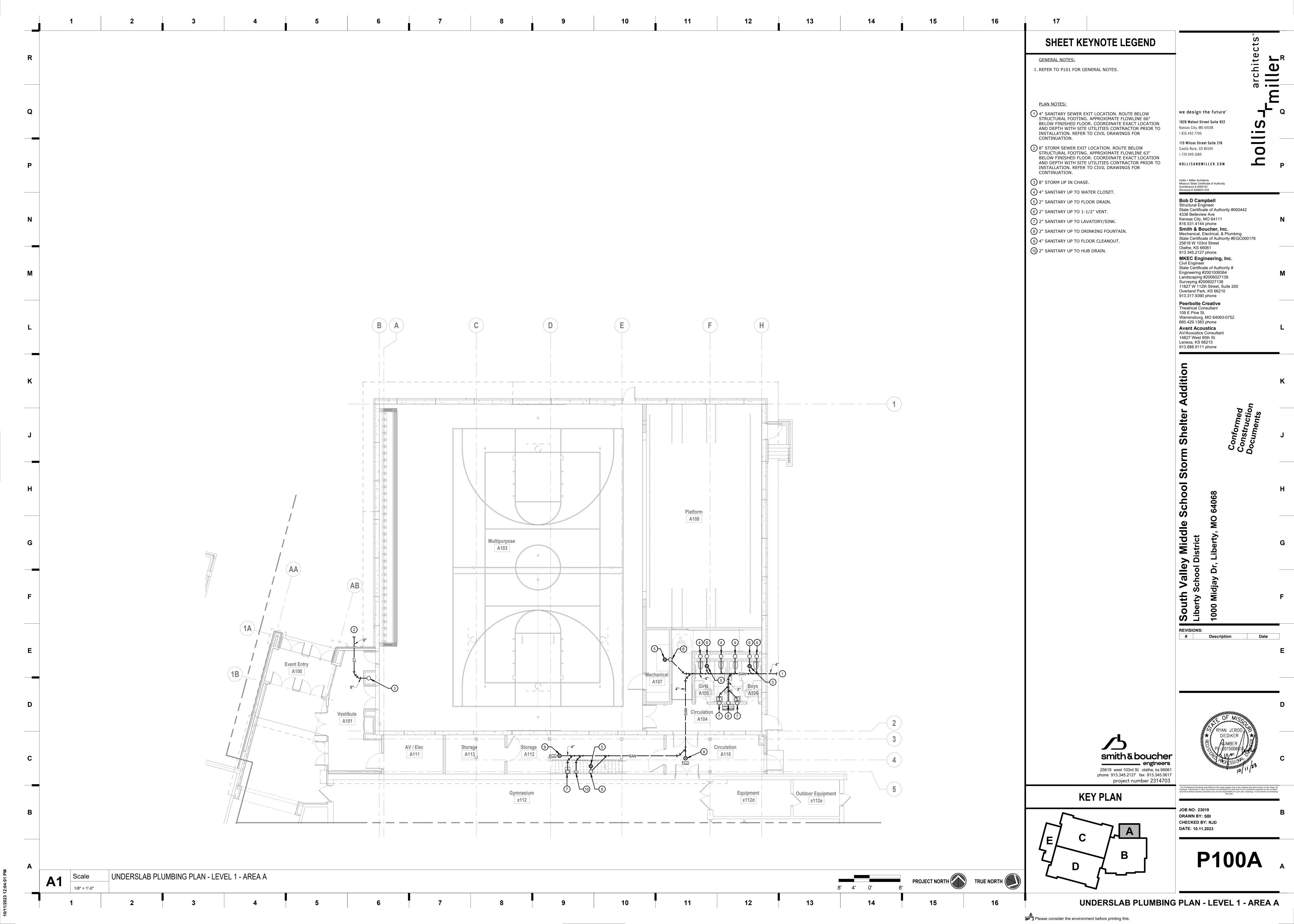


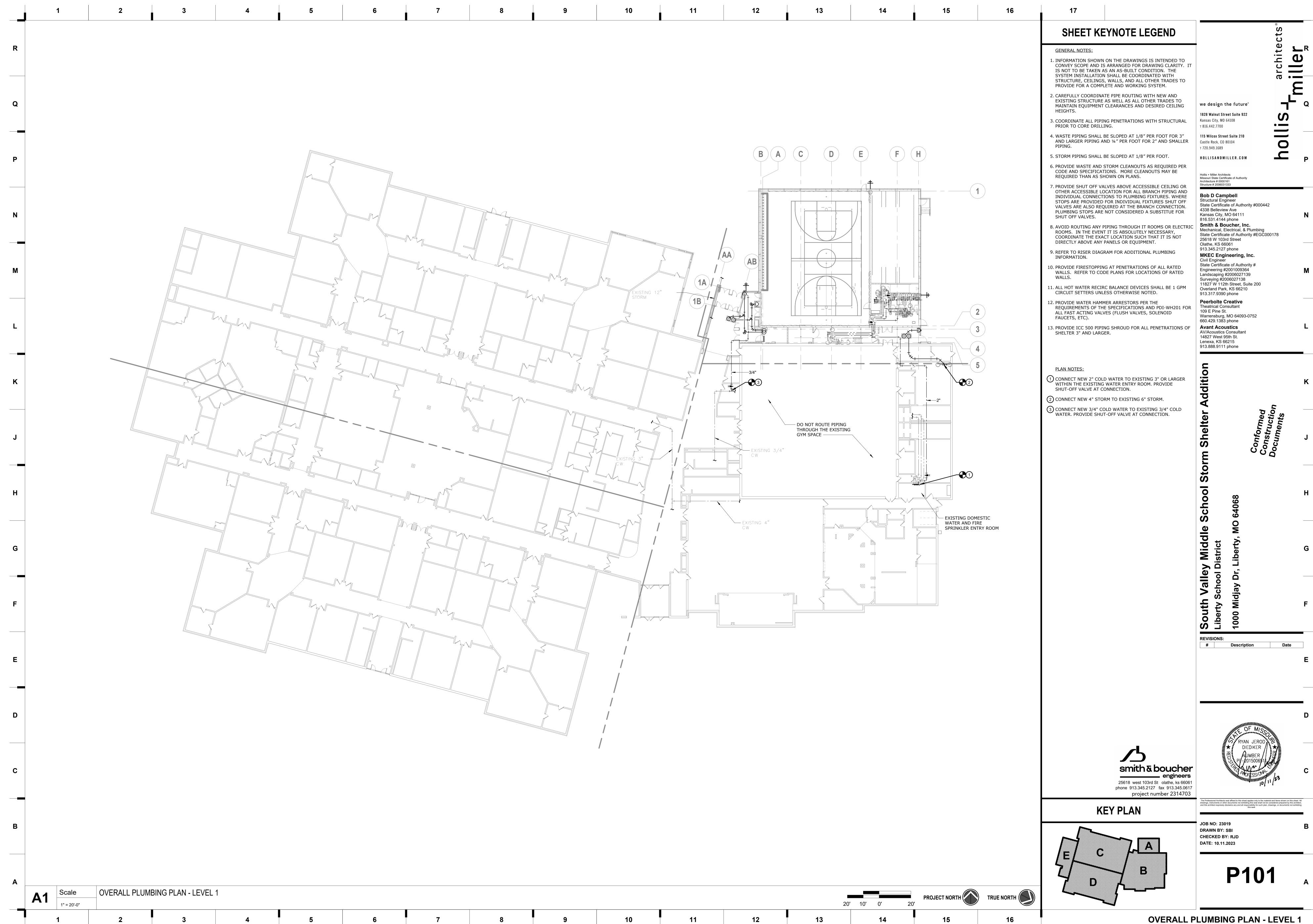


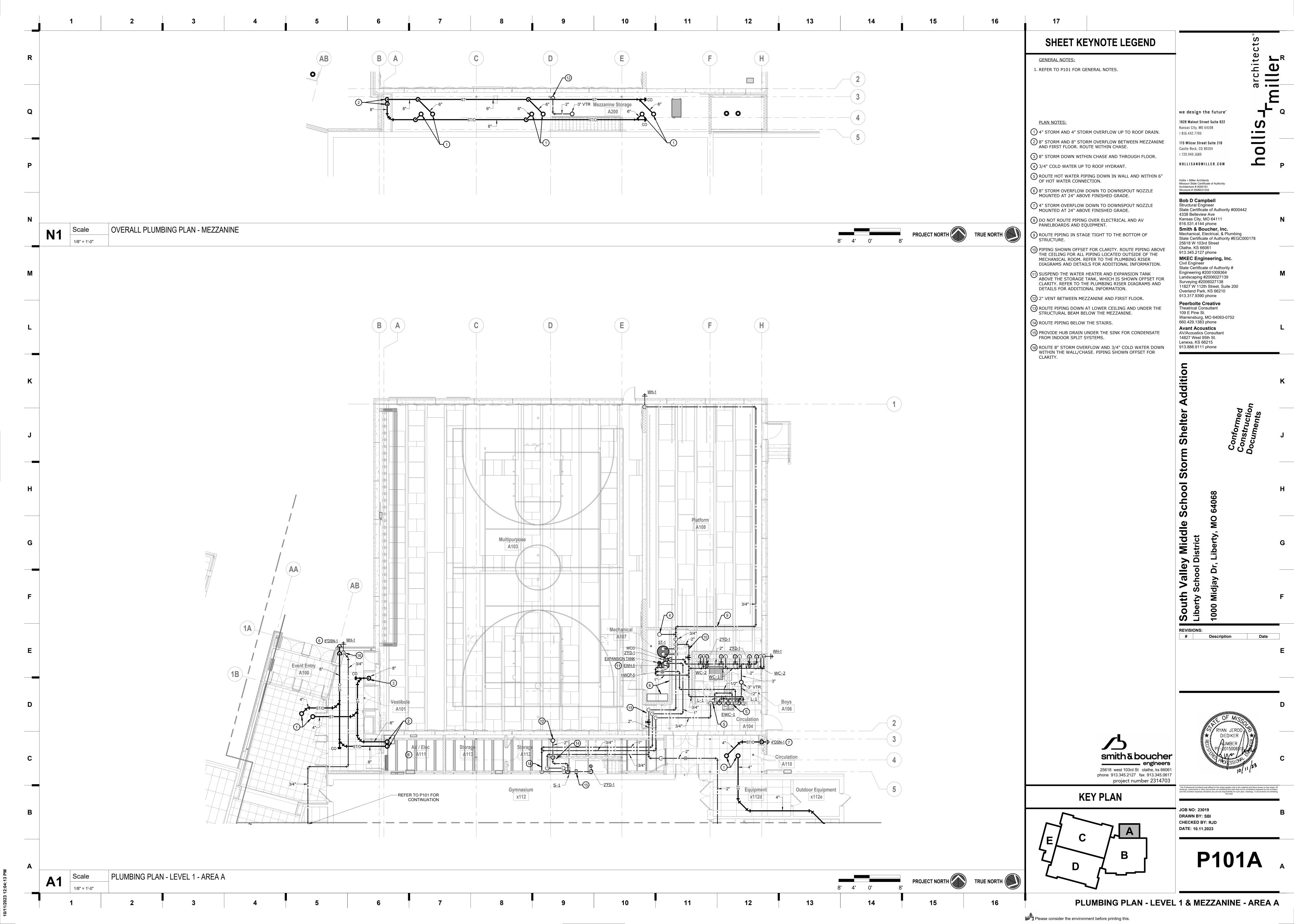


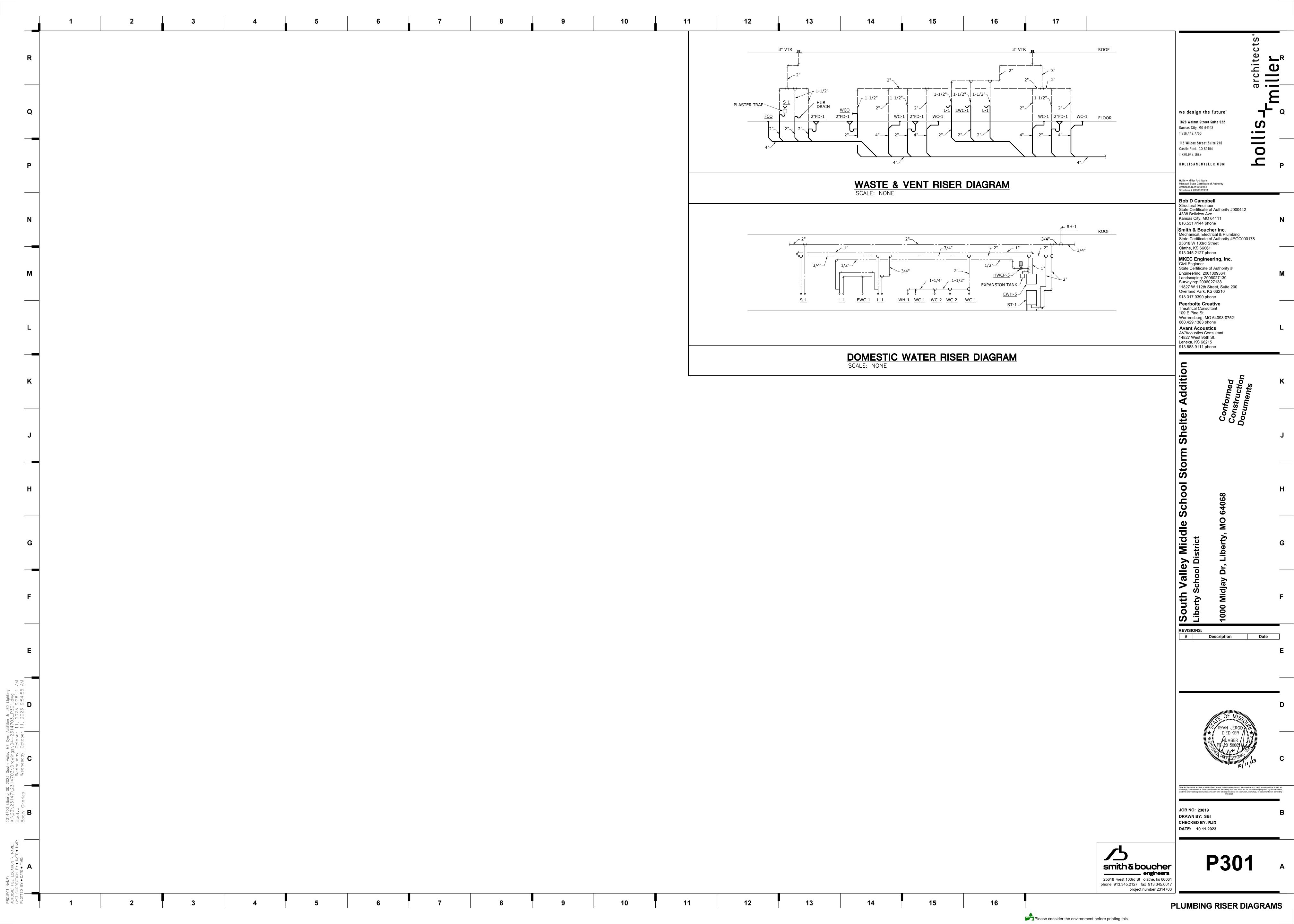


HVAC CONTROL DIAGRAMS

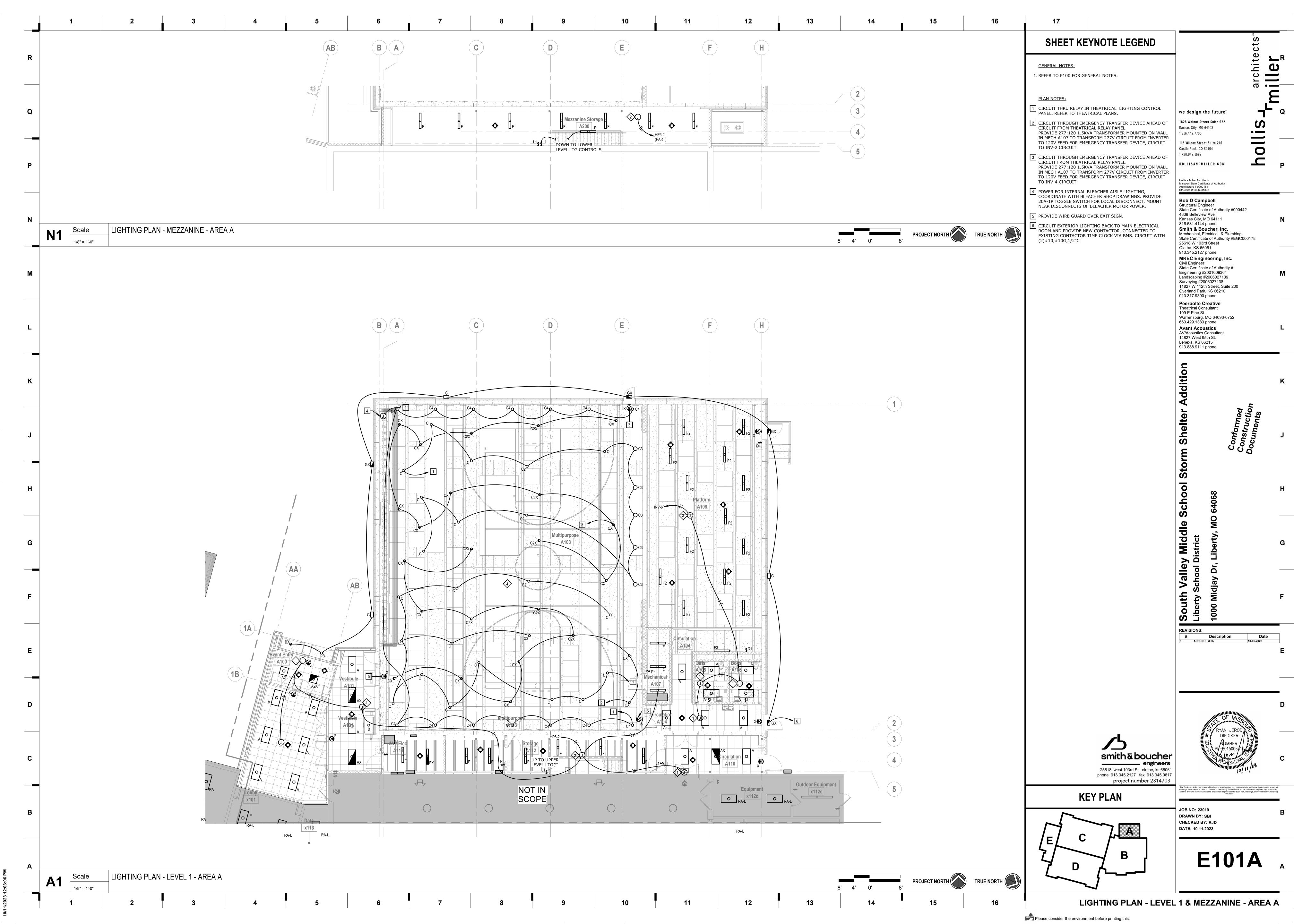


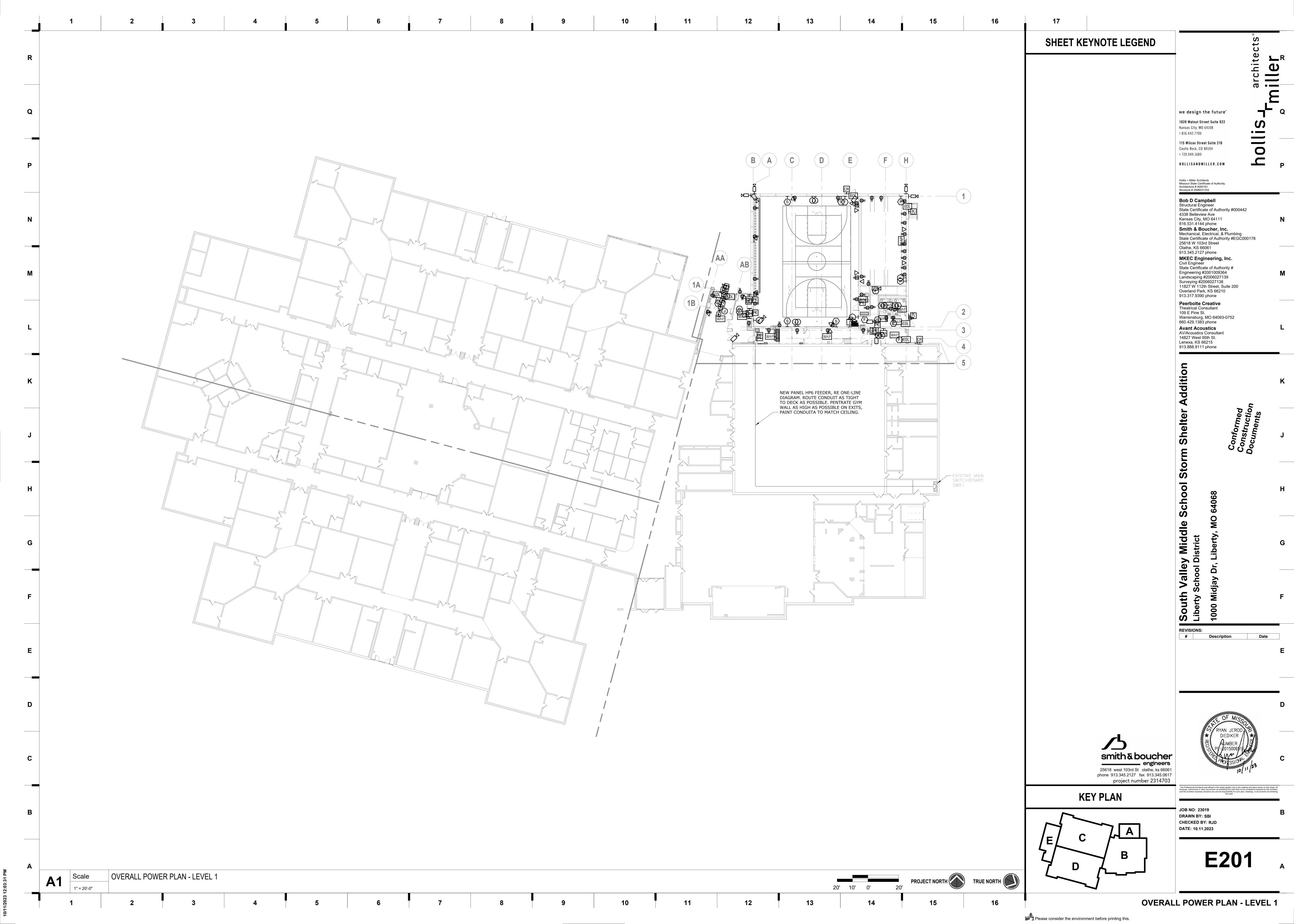


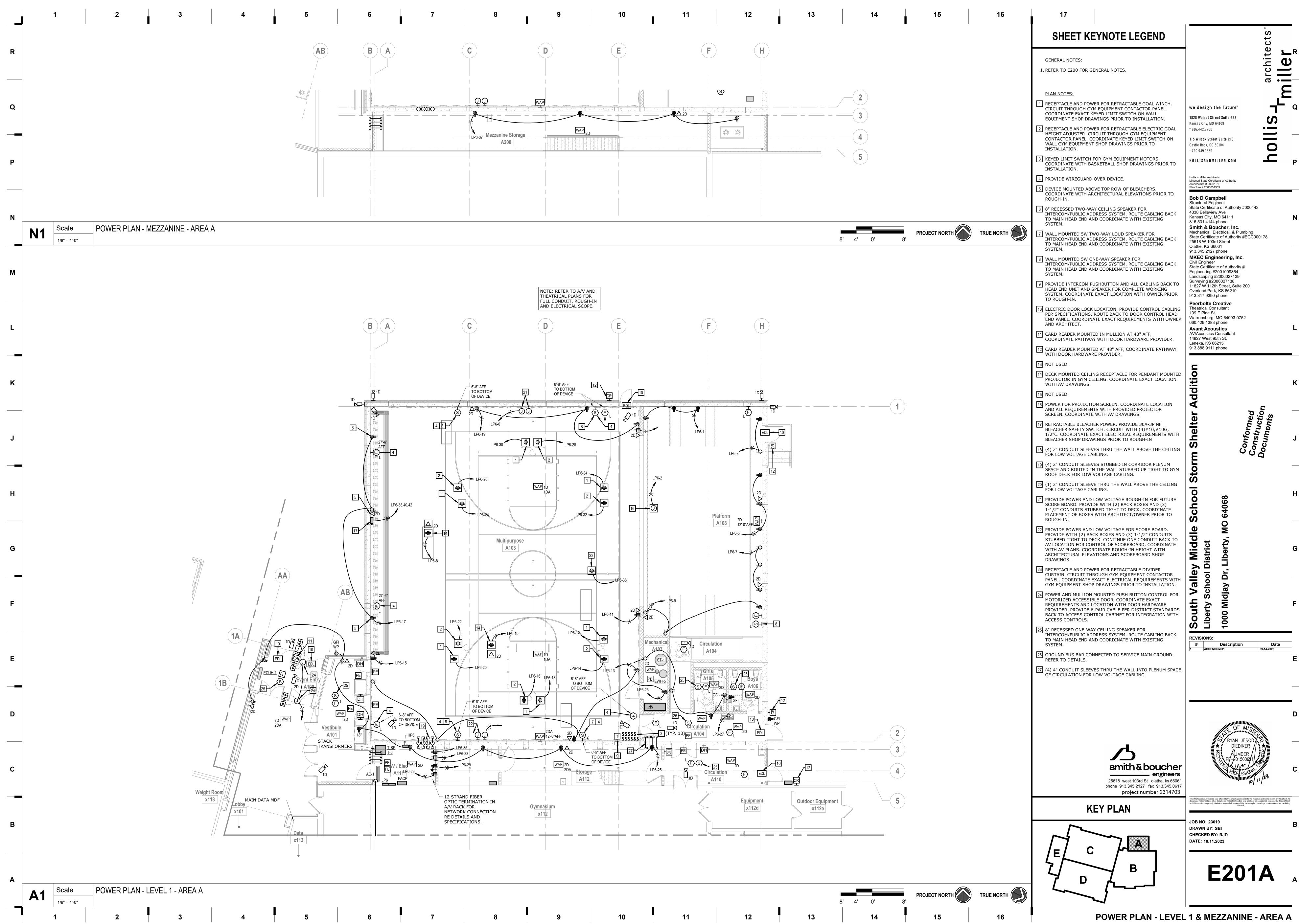


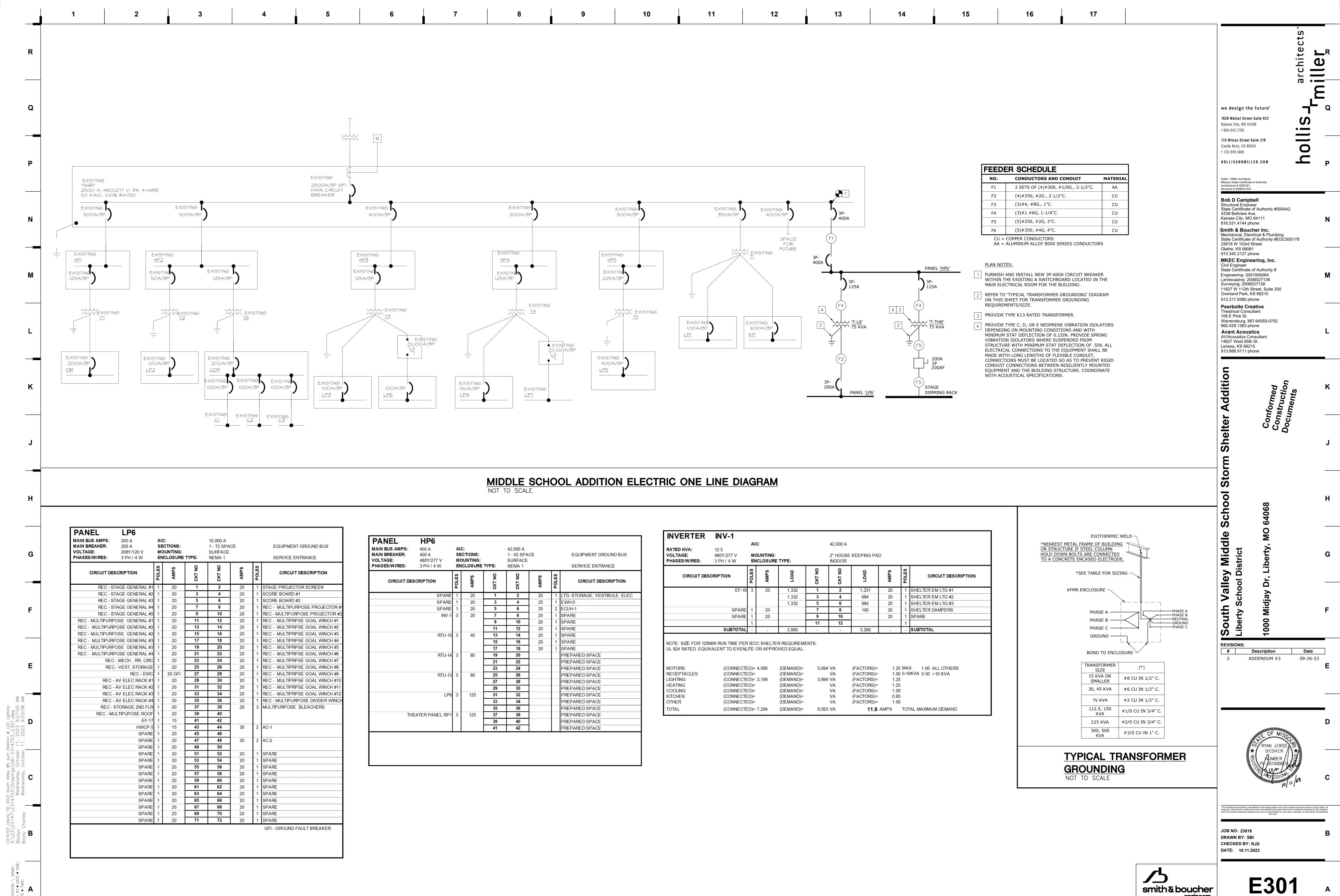












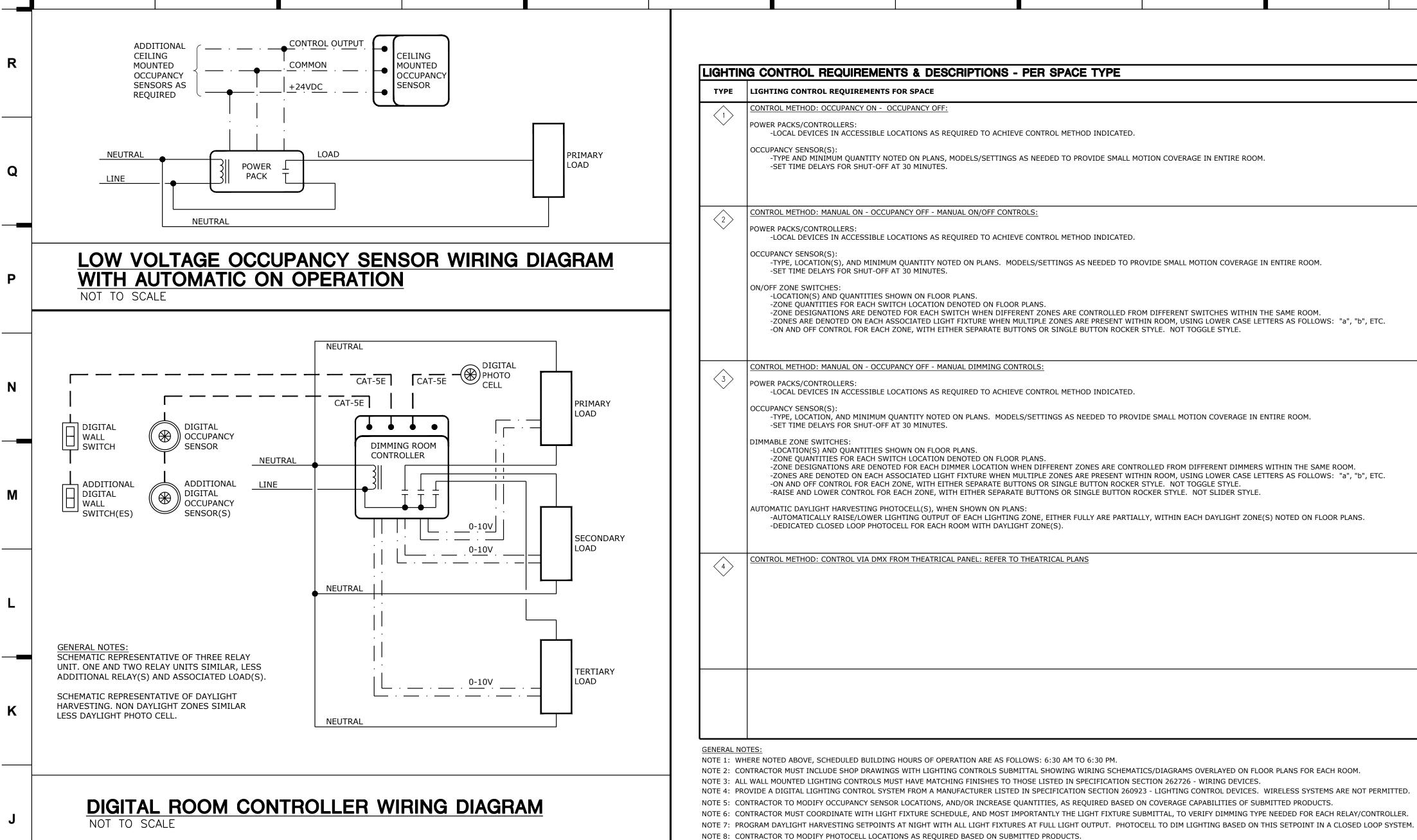
ELECTRICAL - ONE LINE DIAGRAMS

25618 west 103rd St olathe, ks 66061 phone 913.345.2127 fax 913.345.0617

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16

project number 2314703



| TYPE | LIGHTING CONTROL REQUIREMENTS FOR SPACE | | | | | | | | | | | | |
|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <u></u> | CONTROL METHOD: OCCUPANCY ON - OCCUPANCY OFF: | | | | | | | | | | | | |
| 1 | POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. | | | | | | | | | | | | |
| | OCCUPANCY SENSOR(S): -TYPE AND MINIMUM QUANTITY NOTED ON PLANS, MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOMSET TIME DELAYS FOR SHUT-OFF AT 30 MINUTES. | | | | | | | | | | | | |
| | CONTROL METHOD: MANUAL ON - OCCUPANCY OFF - MANUAL ON/OFF CONTROLS: | | | | | | | | | | | | |
| 2 | POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. | | | | | | | | | | | | |
| | OCCUPANCY SENSOR(S): -TYPE, LOCATION(S), AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOMSET TIME DELAYS FOR SHUT-OFF AT 30 MINUTES. | | | | | | | | | | | | |
| | ON/OFF ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANSZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANSZONE DESIGNATIONS ARE DENOTED FOR EACH SWITCH WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT SWITCHES WITHIN THE SAME ROOMZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETCON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE. | | | | | | | | | | | | |
| ^ | CONTROL METHOD: MANUAL ON - OCCUPANCY OFF - MANUAL DIMMING CONTROLS: | | | | | | | | | | | | |
| 3 | POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. | | | | | | | | | | | | |
| | OCCUPANCY SENSOR(S): -TYPE, LOCATION, AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOMSET TIME DELAYS FOR SHUT-OFF AT 30 MINUTES. | | | | | | | | | | | | |
| | DIMMABLE ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANSZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANSZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANSZONE DESIGNATIONS ARE DENOTED FOR EACH DIMMER LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT DIMMERS WITHIN THE SAME ROOMZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETCON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLERAISE AND LOWER CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT SLIDER STYLE. | | | | | | | | | | | | |
| | AUTOMATIC DAYLIGHT HARVESTING PHOTOCELL(S), WHEN SHOWN ON PLANS: -AUTOMATICALLY RAISE/LOWER LIGHTING OUTPUT OF EACH LIGHTING ZONE, EITHER FULLY ARE PARTIALLY, WITHIN EACH DAYLIGHT ZONE(S) NOTED ON FLOOR PLANSDEDICATED CLOSED LOOP PHOTOCELL FOR EACH ROOM WITH DAYLIGHT ZONE(S). | | | | | | | | | | | | |
| 4 | CONTROL METHOD: CONTROL VIA DMX FROM THEATRICAL PANEL: REFER TO THEATRICAL PLANS | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| SYMBOL | DESCRIPTION | DETECTION TYPE | SETTINGS (TYPICAL) | MANUFACTURER/MODEL | NOTES |
|------------------------|---|------------------|----------------------------|--------------------|-------|
| Φ. | WALL MOUNTED SWITCH/OCCUPANCY SENSOR | PASSIVE INFRARED | ON: MANUAL | WATTSTOPPER CS-50 | 1,2 |
| \$ _P | LINE VOLTAGE - SINGLE RELAY | | OFF: 30 MINUTE DELAY | | |
| ф. | WALL MOUNTED SWITCH/OCCUPANCY SENSOR | DUAL TECHNOLOGY | ON: MANUAL | WATTSTOPPER DW-311 | 1,2 |
| \$ _{PD} | LINE VOLTAGE - SINGLE RELAY - WITH DIMMING | | OFF: 30 MINUTE DELAY | | |
| | WALL MOUNTED DIGITAL TIMER SWITCH | NONE | ON: MANUAL | WATTSTOPPER TS-400 | 1,2 |
| ф | LINE VOLTAGE - SINGLE RELAY | | OFF: 2 HOUR DELAY | | |
| \$ _{TS} | | | TIME SCROLL: UP | | |
| | | | WARNING FLASH/SOUND: ON/ON | | |
| Ф. | WALL MOUNTED LIGHTING SYSTEM ON/OFF SWITCH | - | - | PER SUBMITTAL | 1,2 |
| \$ L# | # INDICATES QUANTITY OF ZONES CONTROLLED AT EACH LOCATION | | | | |
| | WALL MOUNTED LIGHTING SYSTEM DIMMER SWITCH | - | - | PER SUBMITTAL | 1,2 |
| \$ _{D#} | # INDICATES QUANTITY OF ZONES CONTROLLED AT EACH LOCATION | | | | |
| \$ | CEILING MOUNTED LIGHTING SYSTEM OCCUPANCY SENSOR | PASSIVE INFRARED | - | PER SUBMITTAL | 1,3,4 |
| Ф _{DT} | CEILING MOUNTED LIGHTING SYSTEM OCCUPANCY SENSOR | DUAL TECHNOLOGY | - | PER SUBMITTAL | 1,3,4 |

17

14

12

11

NOTE 1: THE MANUFACTURERS AND MODELS LISTED ARE THE BASIS OF DESIGN, ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL. REFER TO DRAWINGS FOR QUANTITIES. NOTE 2: ALL WALL MOUNTED LIGHTING CONTROLS MUST HAVE MATCHING FINISHES TO THOSE LISTED IN SPECIFICATION SECTION 262726 - WIRING DEVICES.

NOTE 3: OCCUPANCY SENSOR LOCATIONS SHOWN ON FLOOR PLANS ARE GENERIC, CONTRACTOR TO MODIFY LOCATIONS AS REQUIRED BASED COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS. NOTE 4: MODIFY LOCATIONS OF CEILING MOUNTED OCCUPANCY SENSORS AS REQUIRED SO THAT NO OCCUPANCY SENSOR IS WITHIN 4'-0" OF AN HVAC SUPPLY DIFFUSER.

| YPE | DESCRIPTION | MOUNTING | LAMP | VOLTS | MANUFACTURER | V-A |
|-----|--|--|---|-------|--|-----|
| A | 2'x4' RECESSED BACK LIT FLAT PANEL. INTEGRAL 0-10V DIMMING DRIVER. ADJUSTABLE LUMEN OUTPUT ON FIXTURE | RECESSED GRID | LED 4900 LUMENS (DELIVERED) 3500K 80 CRI | | WILLIAMS SERIES BP GE CURRENT LPL LITHONIA CPX SIGNIFY FLUX PANEL OR PRE-BID APPROVED EQUAL | 50 |
| В | 4" OPEN APERTURE LED DOWNLIGHT WITH SEMI-SPECULAR LOW IRIDESCENT REFLECTOR, INTEGRAL DRIVER, PAINTED WHITE TRIM FLANGE. PROVIDE WITH 0-10V DIMMING DRIVER UL LISTED FOR WET LOCATIONS, HIGH AMBIENT TEMP. | RECESSED | LED 1,000 LUMENS (DELIVERED) 3500K 80 CRI | | PATHWAY LIGHTING SERIES 4LB79V W LITHONIA LDN4 LIGHTOLIER SERIES LYTEPROFILE INTENSE SD4DR HE WILLIAMS 4DR | 15 |
| С | 8" ROUND X 17" TALL, HARD STEM MOUNTED CYLINDER. 60 DEG DISTRIBUTION. FADE TO BLACK DMX DIMMING DRIVER. BLACK FINISH. FACE OF FIXTURE TO BE FLUSH WITH BOTTOM OF STRUCTURE. | PENDANT | LED 7,300 LUMENS (DELIVERED) 3500K 90 CRI | | TIMES SQUARE CELESTE METEOR ATRIA 6 OR PRE-BID APPROVED EQUAL | 82 |
| C2 | SAME AS TYPE 'C' EXCEPT WITH 33 DEG DISTRIBUTION. | PENDANT | LED 7,700 LUMENS (DELIVERED) 3500K 90 CRI | | TIMES SQUARE CELESTE METEOR ATRIA 6 OR PRE-BID APPROVED EQUAL | 82 |
| C3 | SAME AS TYPE 'C' EXCEPT RECESSED AND FLANGED CAN LIGHT. PROVIDE WITH SLOPED CEILING ADAPTER. BLACK FLANGE FINISH, CONFIRM WITH ARCHITECT. | PENDANT | LED 8,000 LUMENS (DELIVERED) 3500K 90 CRI | | METOER REV 6 GOTHAM EVO 6 OR PRE-BID APPROVED EQUAL | 82 |
| C4 | SAME AS TYPE 'C' EXCEPT WITH 40 DEG DISTIBUTION AND WITH RGB COLOR CHANGING OUTPUT | PENDANT | LED 90 CRI | | METOER ATRIA 4 TIMES SQUARE CELESTRE COLOR MIX OR PRE-BID APPROVED EQUAL | 35 |
| F | 4'-0" LED STRIP LIGHT WITH WIRE GUARD. SQUARE LENS. INTEGRAL DRIVER. WHITE FINISH. 0-10V DIMMING DRIVER. | CHAIN HANG TO 8'-0" AFF UNLESS NOTED | LED 3,000 LUMENS | UNV | WILLIAMS 75 SERIES LITHONIA Z SERIES DAY-BRITE FLUX STREAM STRIP COLUMBIA CSL OR PRE-BID APPROVED EQUAL | 33 |
| F2 | SAME AS TYPE 'F' EXCEPT WITH LUMEN PACKAGE AS NOTED. NO WIRE GUARD. AIR CRAFT CABLE MOUNT. BLACK FINISH. | PEDANT | LED 8,000 LUMENS (DELIVERED) 3500K | | WILLIAMS 75 SERIES LITHONIA Z SERIES DAY-BRITE FLUX STREAM STRIP COLUMBIA CSL OR PRE-BID APPROVED EQUAL | 57 |
| F3 | SAME AS TYPE 'F' EXCEPT WALL MOUNTED. NO WIRE GUARD. BLACK FINISH. | WALL AT 8'-0" | LED 3,000 LUMENS (DELIVERED) 3500K | | WILLIAMS 75 SERIES LITHONIA Z SERIES DAY-BRITE FLUX STREAM STRIP COLUMBIA CSL OR PRE-BID APPROVED EQUAL | 33 |
| G | LED EXTERIOR WEDGE TYPE WALL PACK, TYPE 3 DISTRIBUTION. COORDINATE FINISH AND MOUNTING HEIGHT WITH ARCHITECT. | WALL | LED 3,200 LUMEN (DELIVERED) 4000K 70 CRI | | LITHONIA WEDGE2 GARDCO GWS OR PRE-BID APPROVED EQUAL | 32 |
| X | EDGE LIT EXIT SIGN RED LETTERING. ALUMINUM TRIM. PROVIDE ARROWS AS NOTED ON DRAWINGS, AND SINGLE OR DOUBLE SIDED AS NEEDED AND SHOWN ON DRAWINGS. PROVIDE TOP, BACK, OR SIDE MOUNT HARDWARE AS REQUIRED BY ARCHITECTURAL CONDITIONS. BATTERY CAPABLE OF 90 MINUTES OF EMERGENCY OPERATION. | SURFACE | LED | | DUAL LITE LES SERIES LITHONIA EDGE LIT EXIT EVENLITE TEX EMERGI-LITE TOTAL EDGE OR PRE-BID APPROVED EQUAL | 5 |

NOTE: PROVIDE FIXTURES DESIGNATED WITH AN X ON PLAN WITH 1200 LUMEN (OR MAX FIXTURE OUTPUT) MINIMUM 90MINUTE EMERGENCY BATTERY BACKUP UNLESS WHERE PROVIDED WITH INVERTER, REFER TO PLANS.

we design the future° 1828 Walnut Street Suite 922 Kansas City, MO 64108 т 816.442.7700 115 Wilcox Street Suite 210 Castle Rock, CO 80104

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State Certificate of Authority #000442 4338 Bellview Ave. Kansas City, MO 64111 816.531.4144 phone Smith & Boucher Inc.
Mechanical, Electrical & Plumbing State Certificate of Authority #EGC000178 25618 W 103rd Street

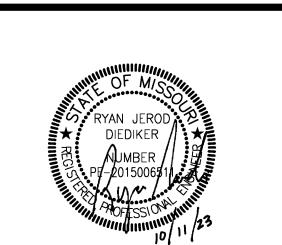
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State Certificate of Authority # Engineering: 2001009364 Landscaping: 2006027139 Surveying: 2006027138

11827 W 112th Street, Suite 200 Overland Park, KS 66210 913.317.9390 phone **Peerbolte Creative** Theatrical Consultant 109 E Pine St. Warrensburg, MO 64093-0752 660.429.1383 phone

Avant Acoustics AV/Acoustics Consultant 14827 West 95th St. Lenexa, KS 66215 913.888.9111 phone

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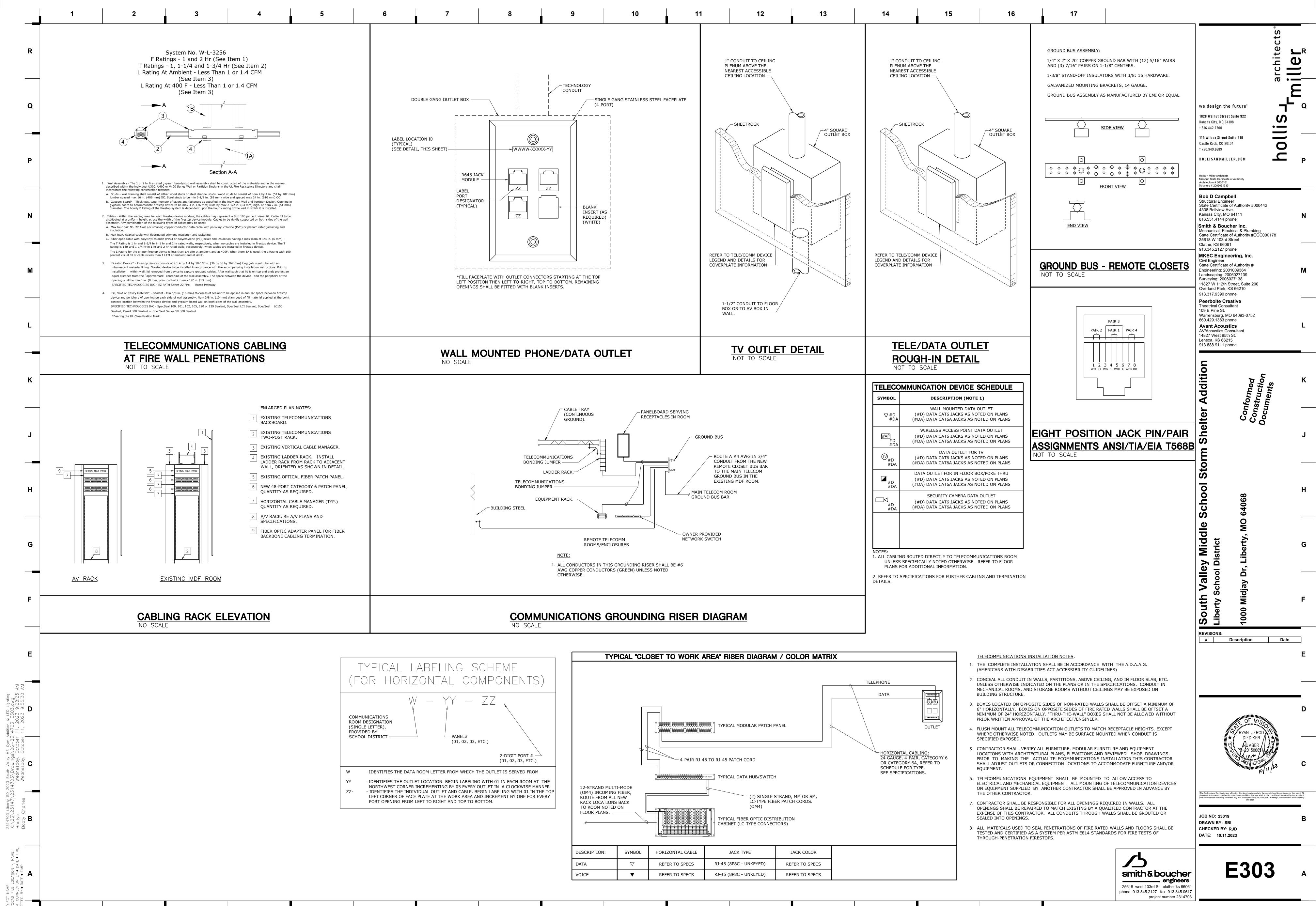
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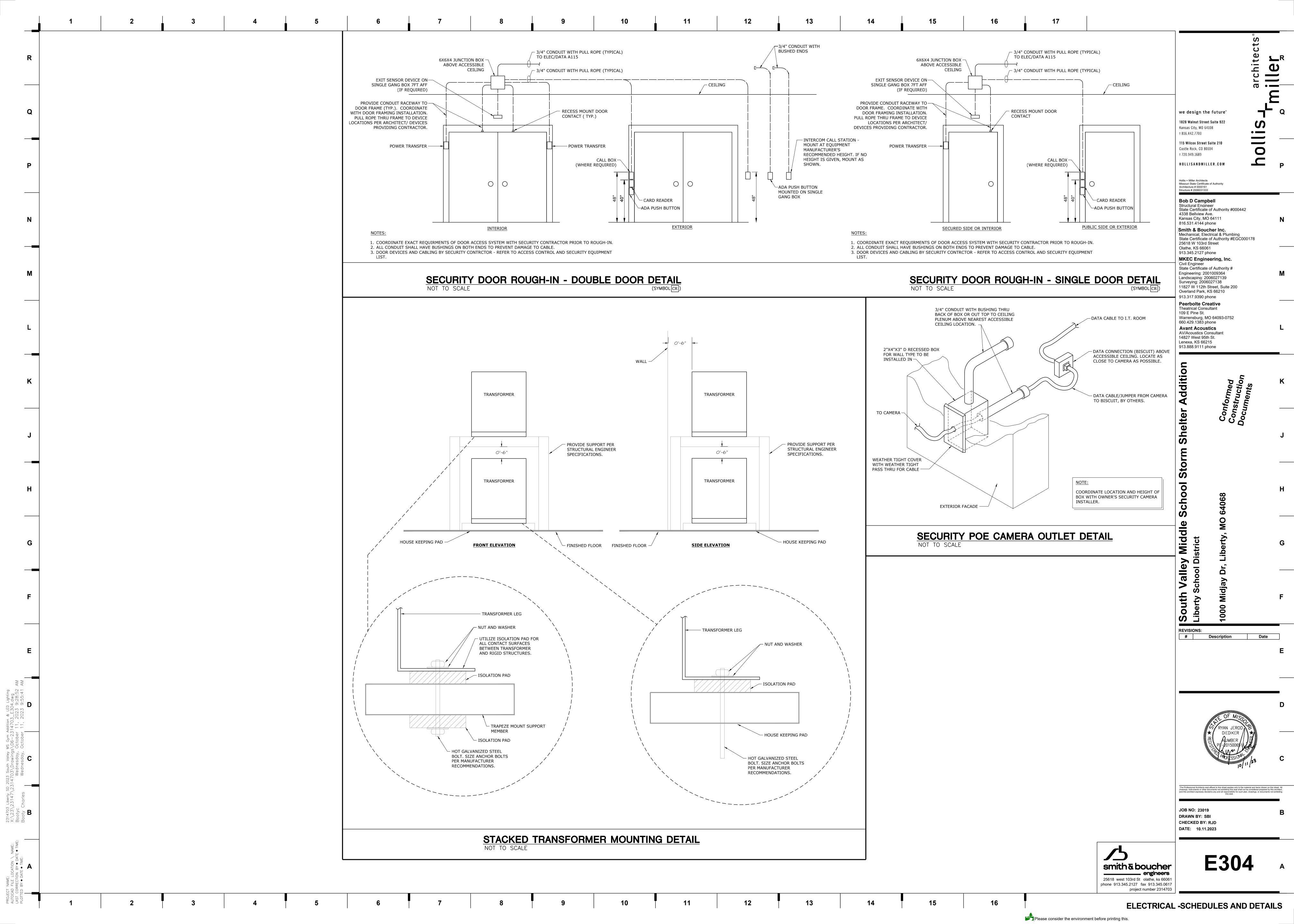
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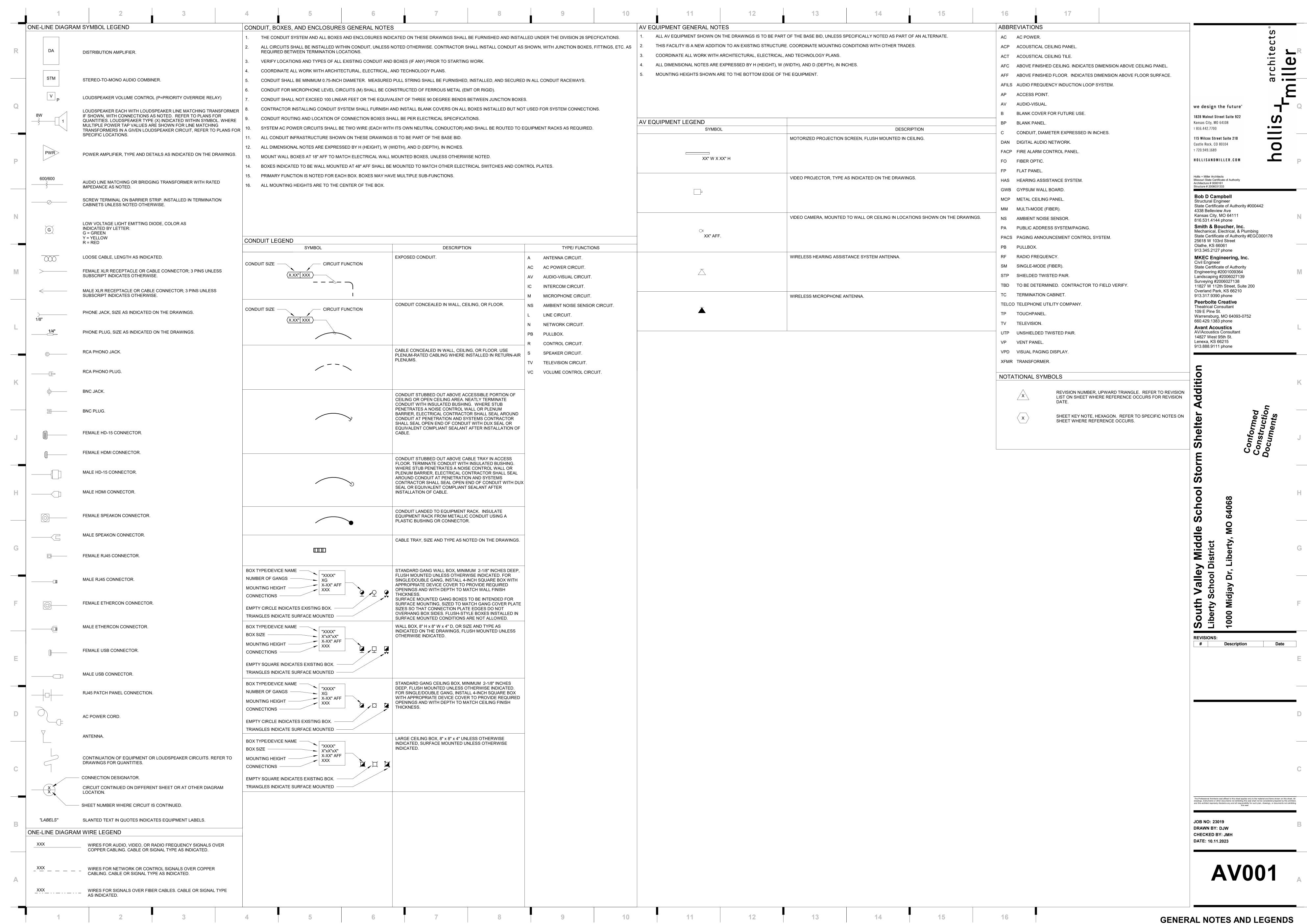
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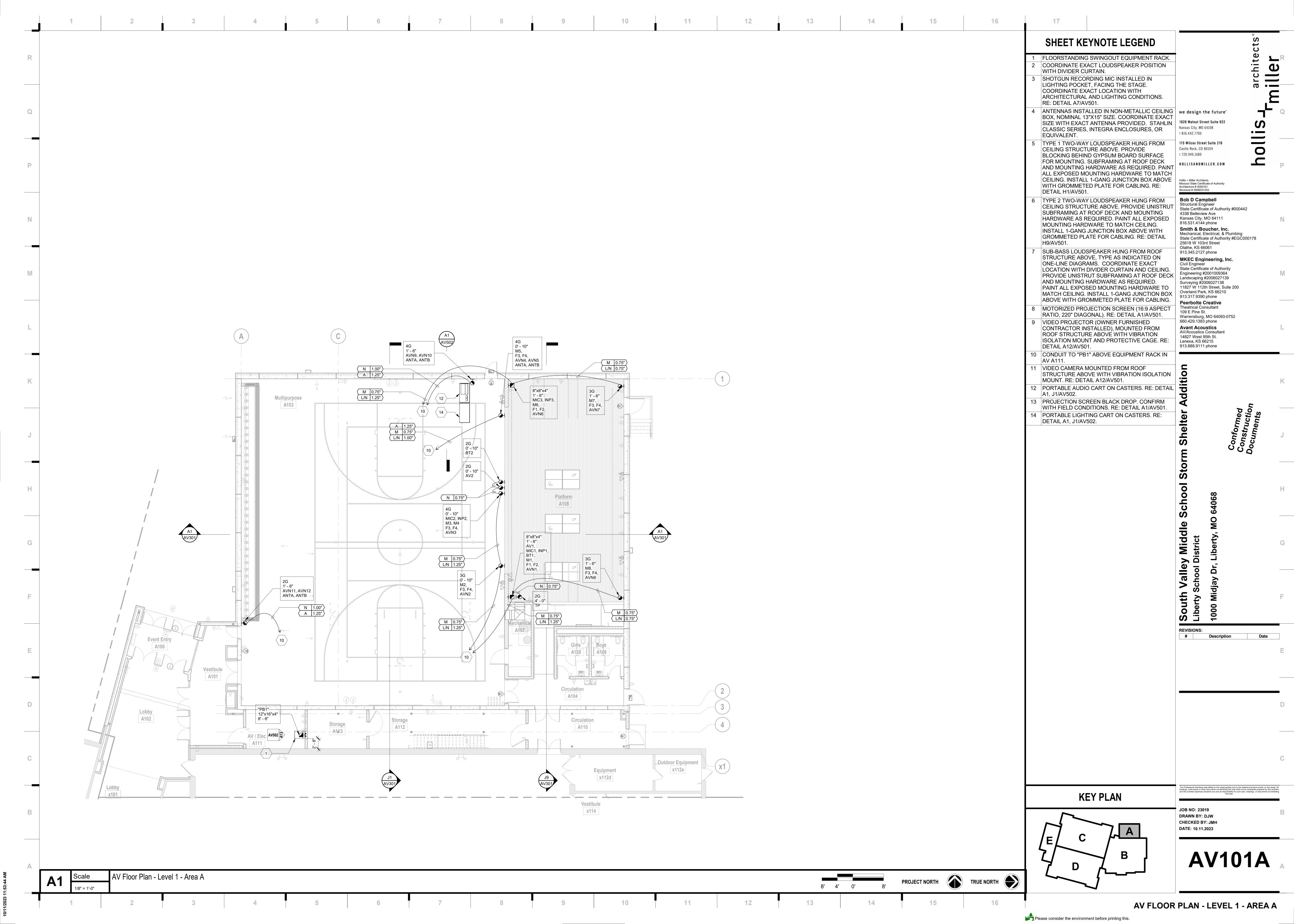
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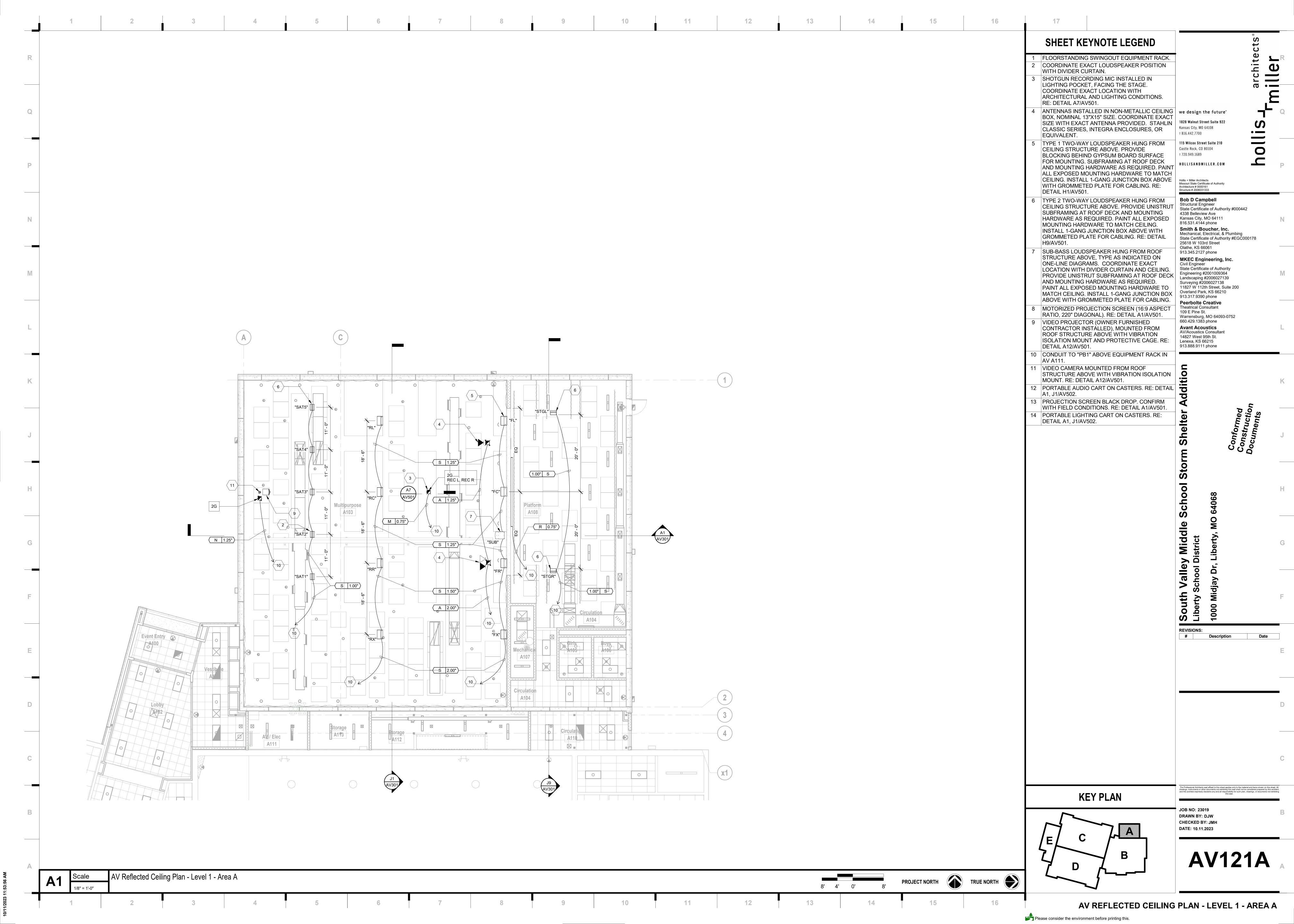


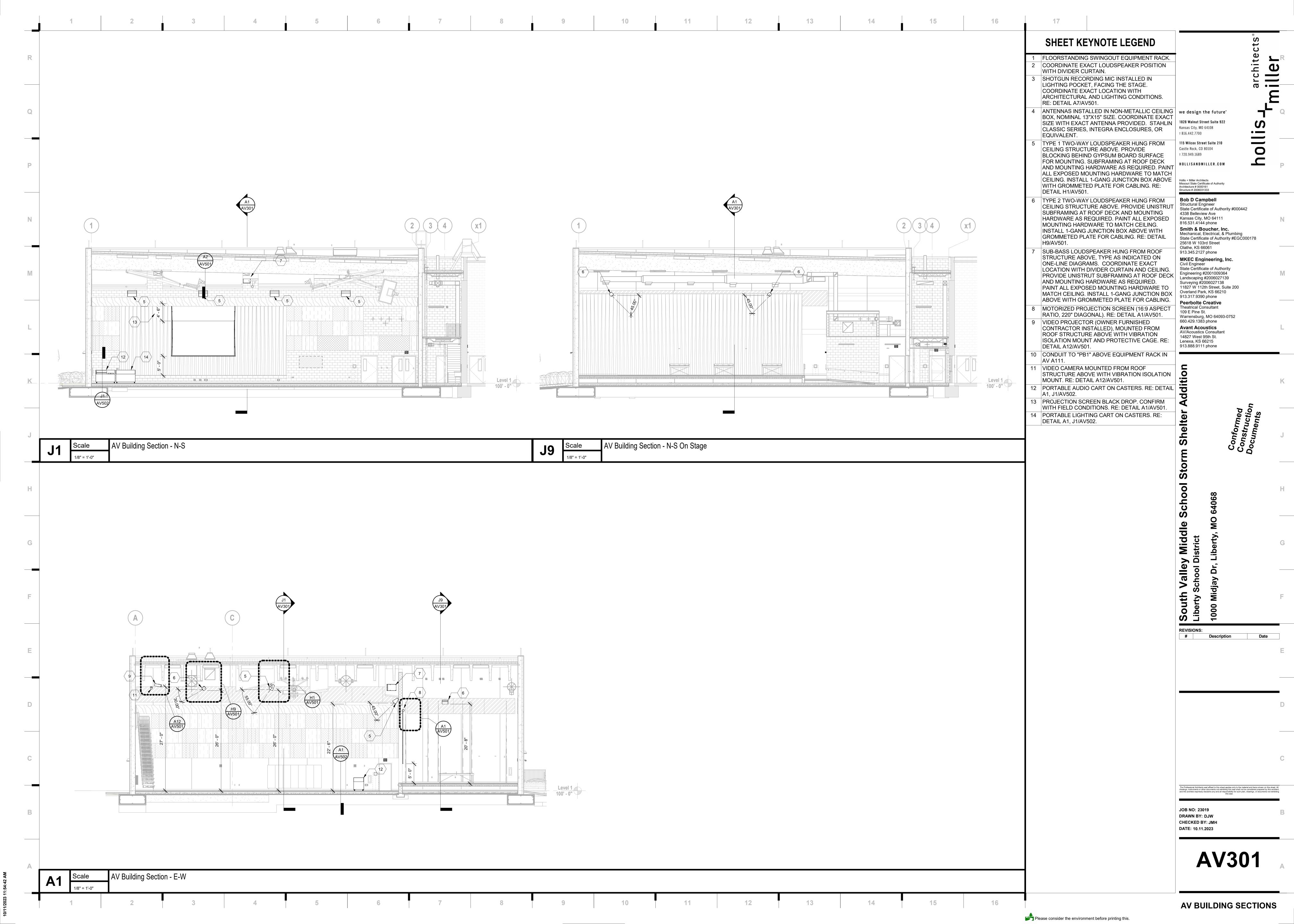
ELECTRICAL -SCHEDULES AND DETAILS

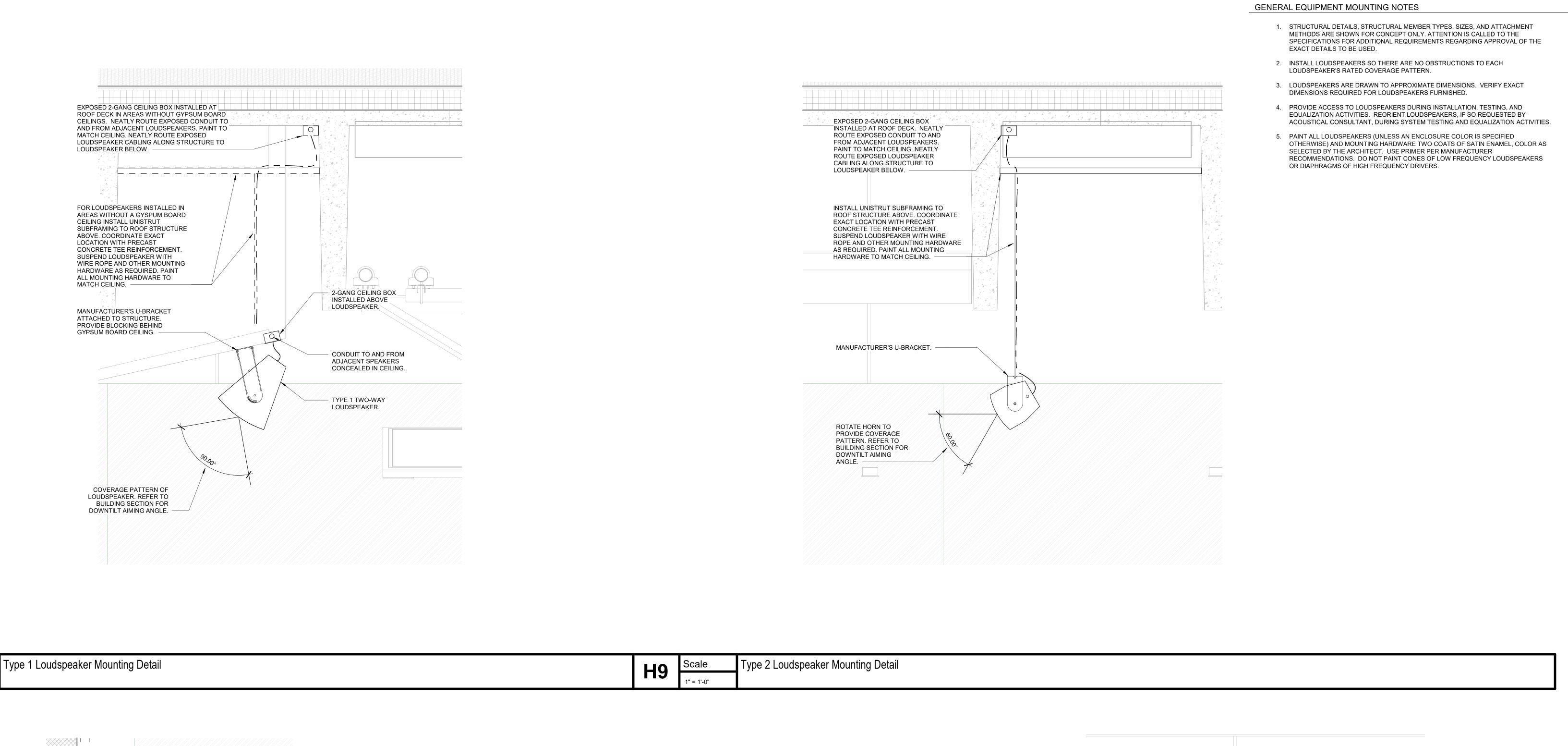


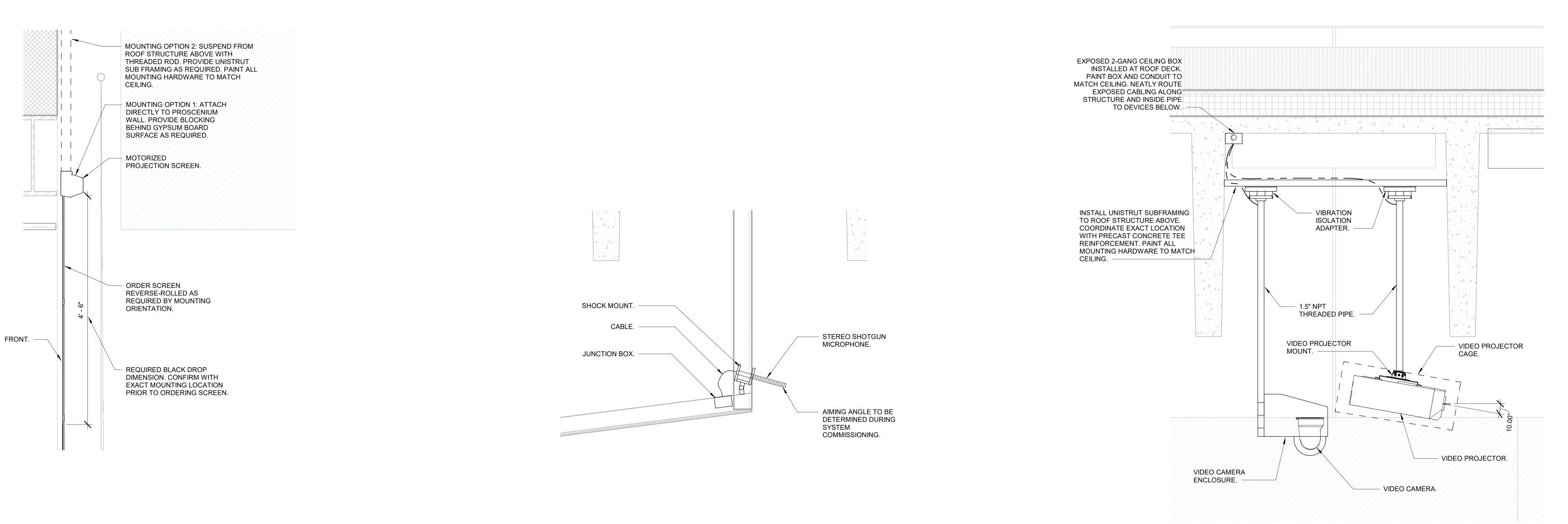












Recording Mic Mounting Detail

A7

Projection Screen Mounting Detail

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Peerbolte Creative Theatrical Consultant 109 E Pine St. Warrensburg, MO 64093-0752 660.429.1383 phone **Avant Acoustics** AV/Acoustics Consultant

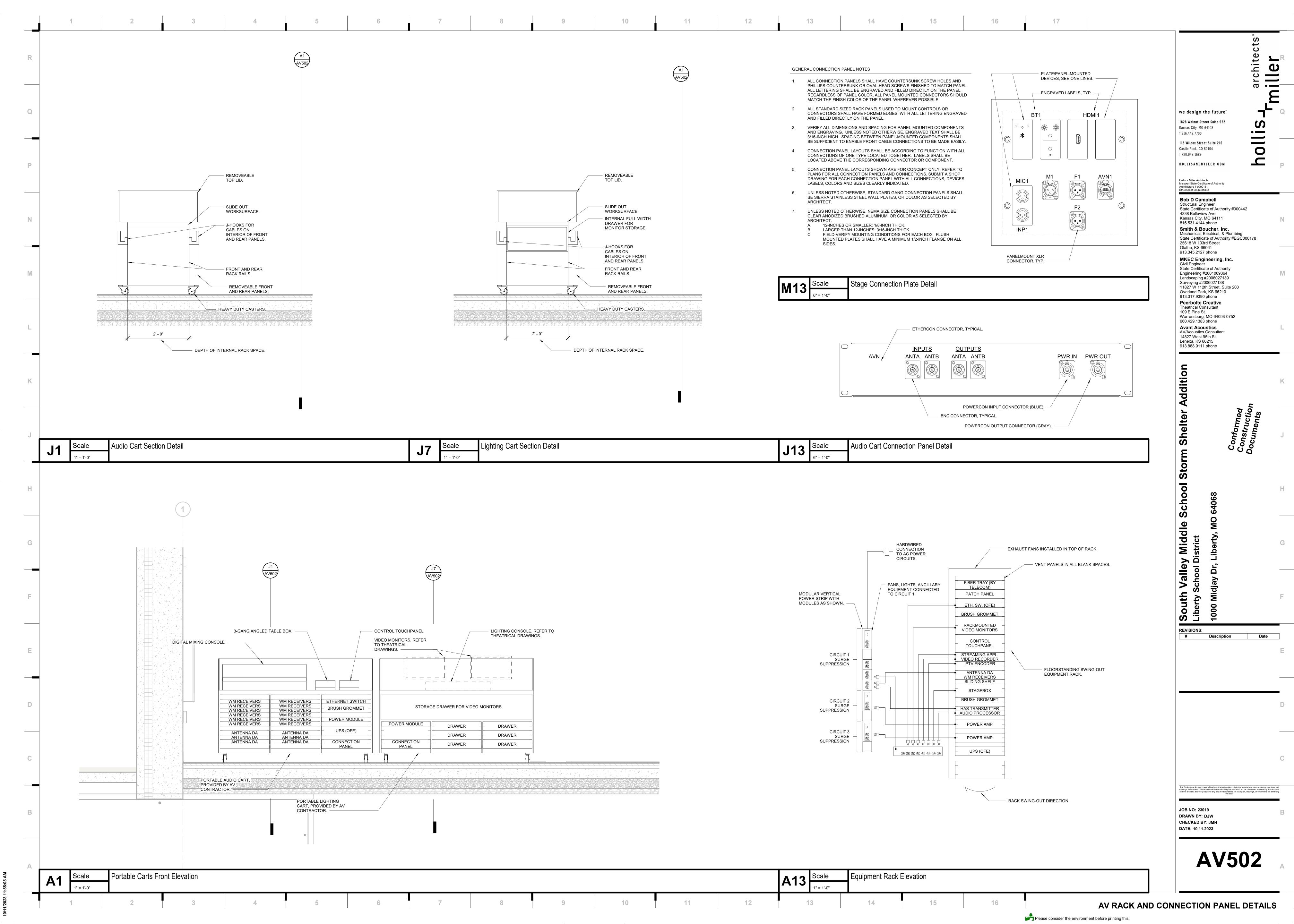
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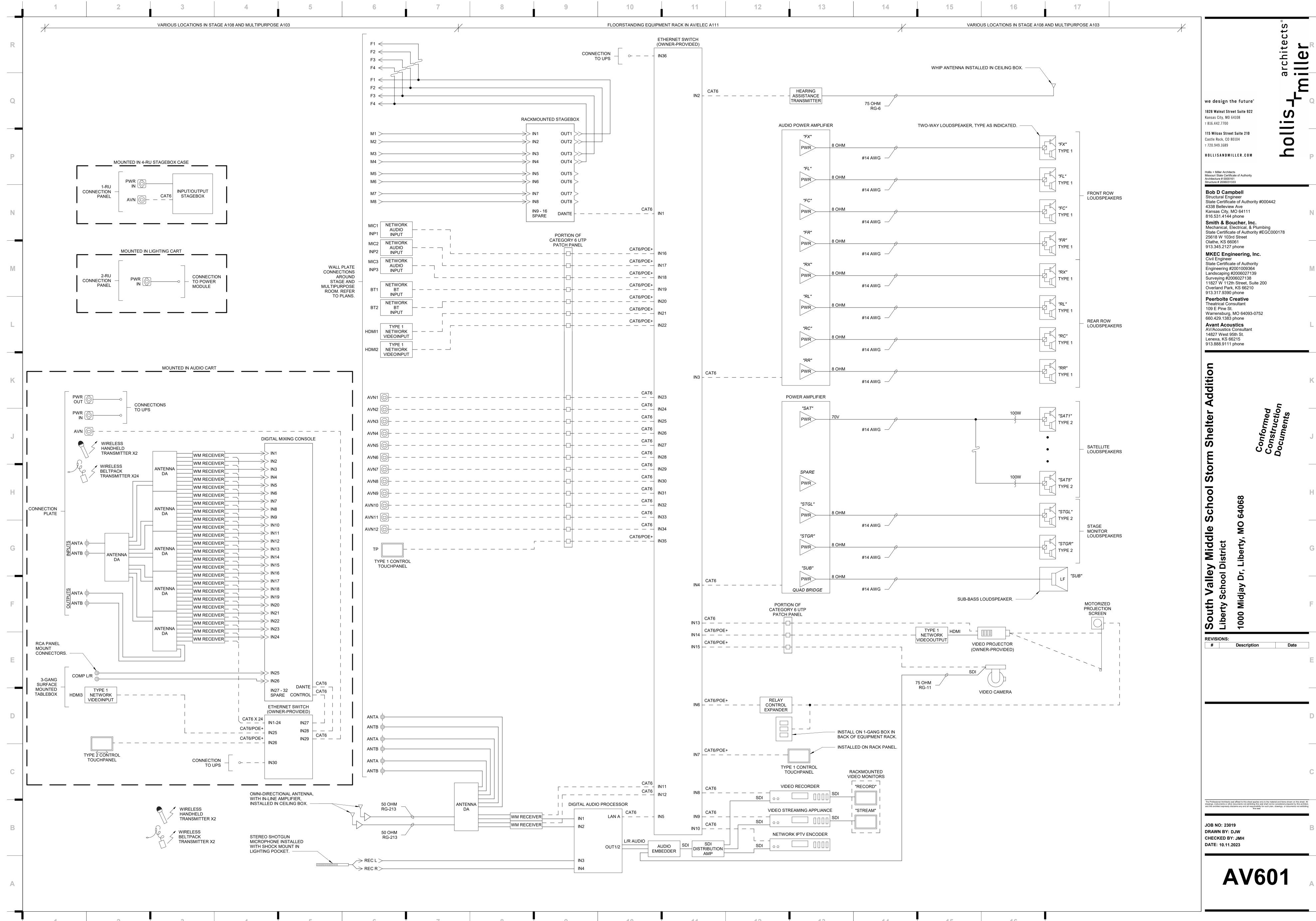
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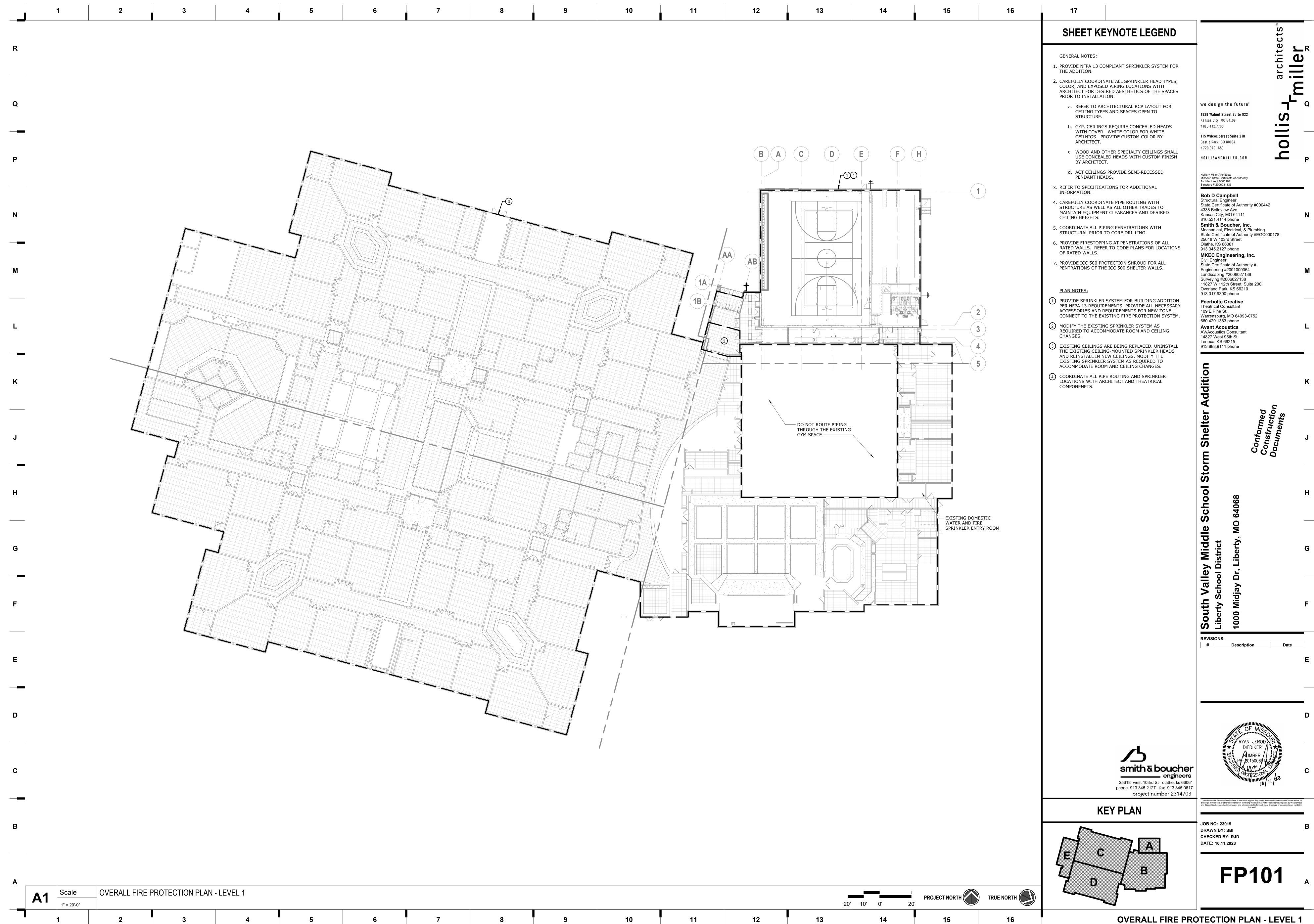
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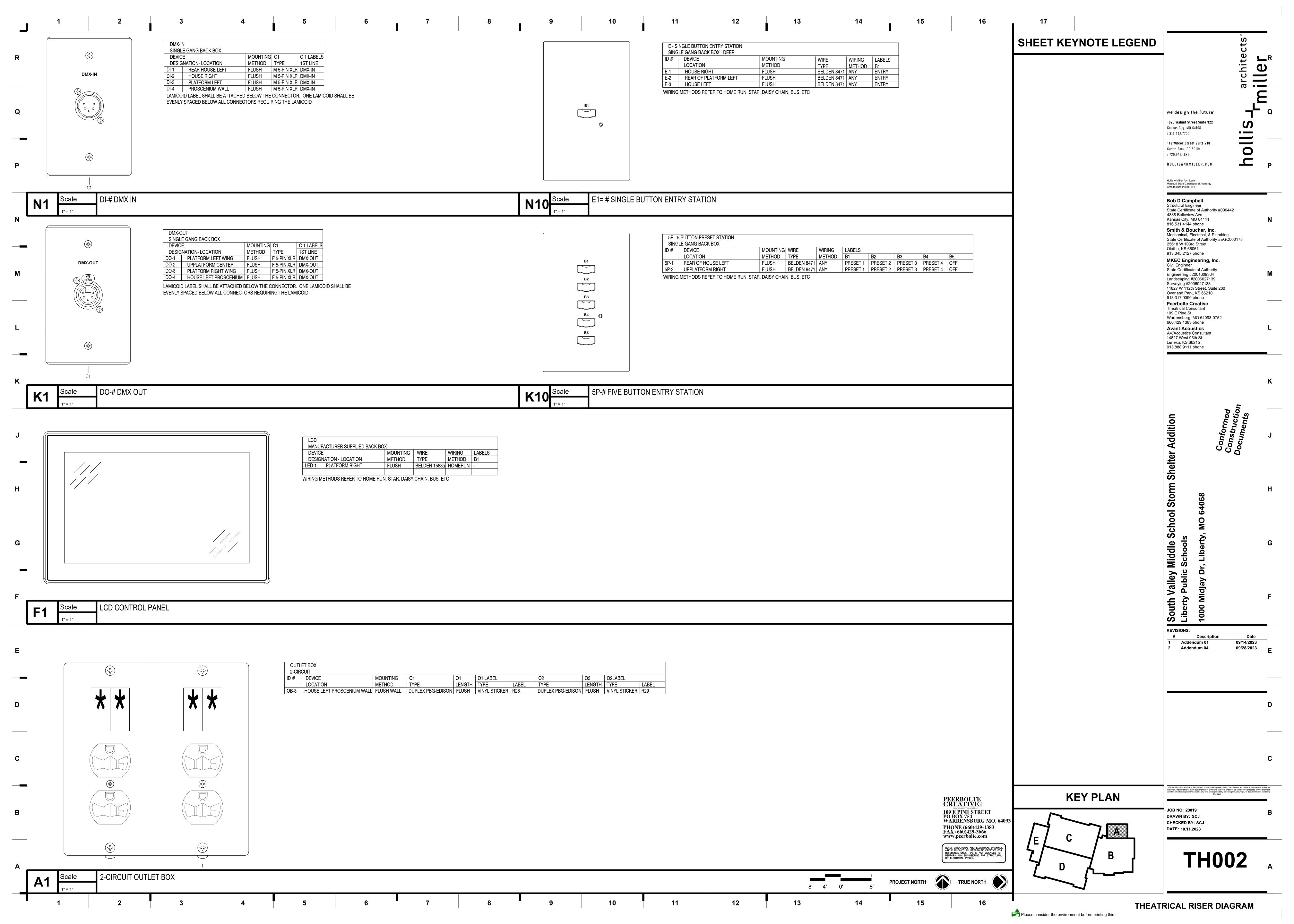
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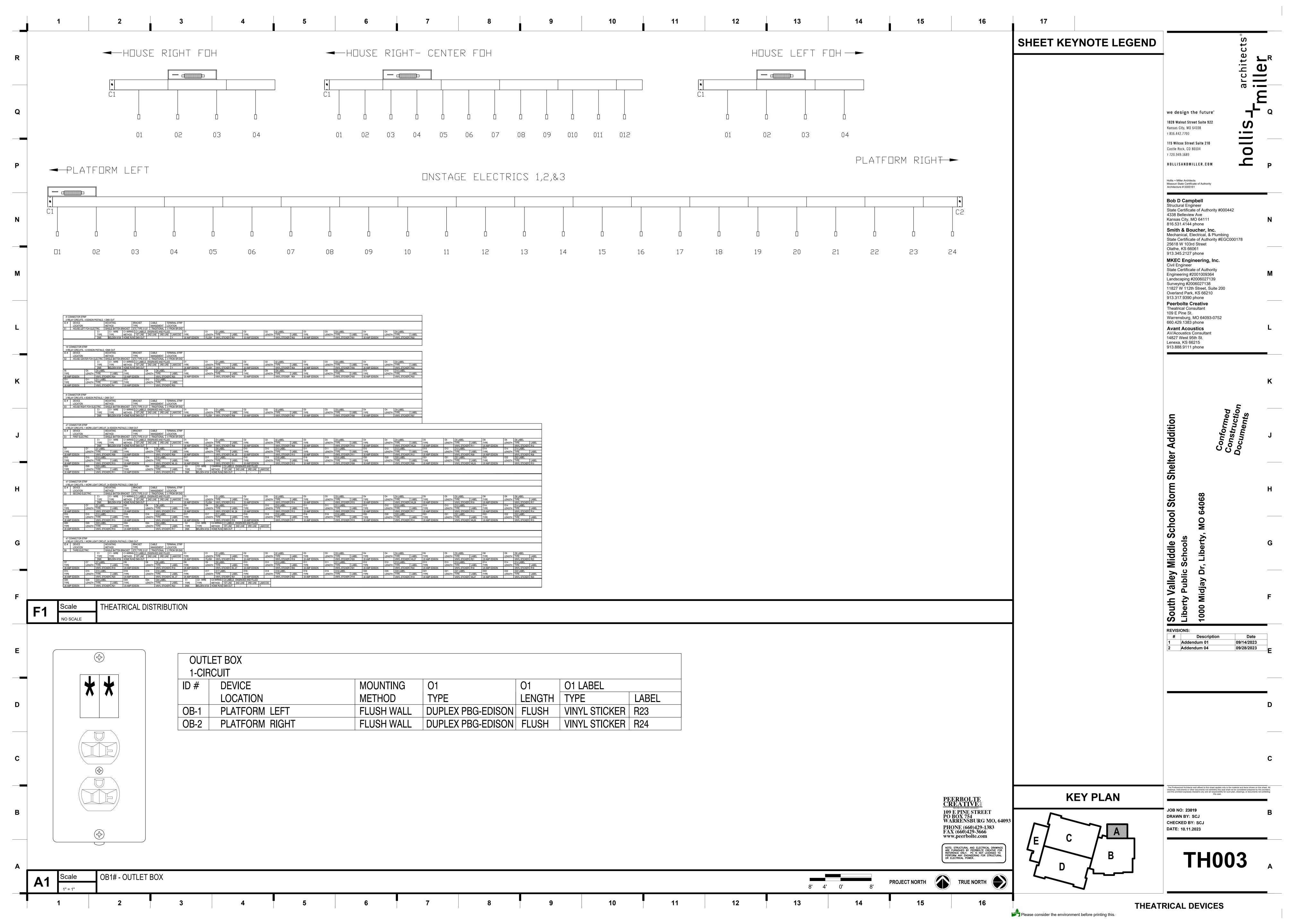


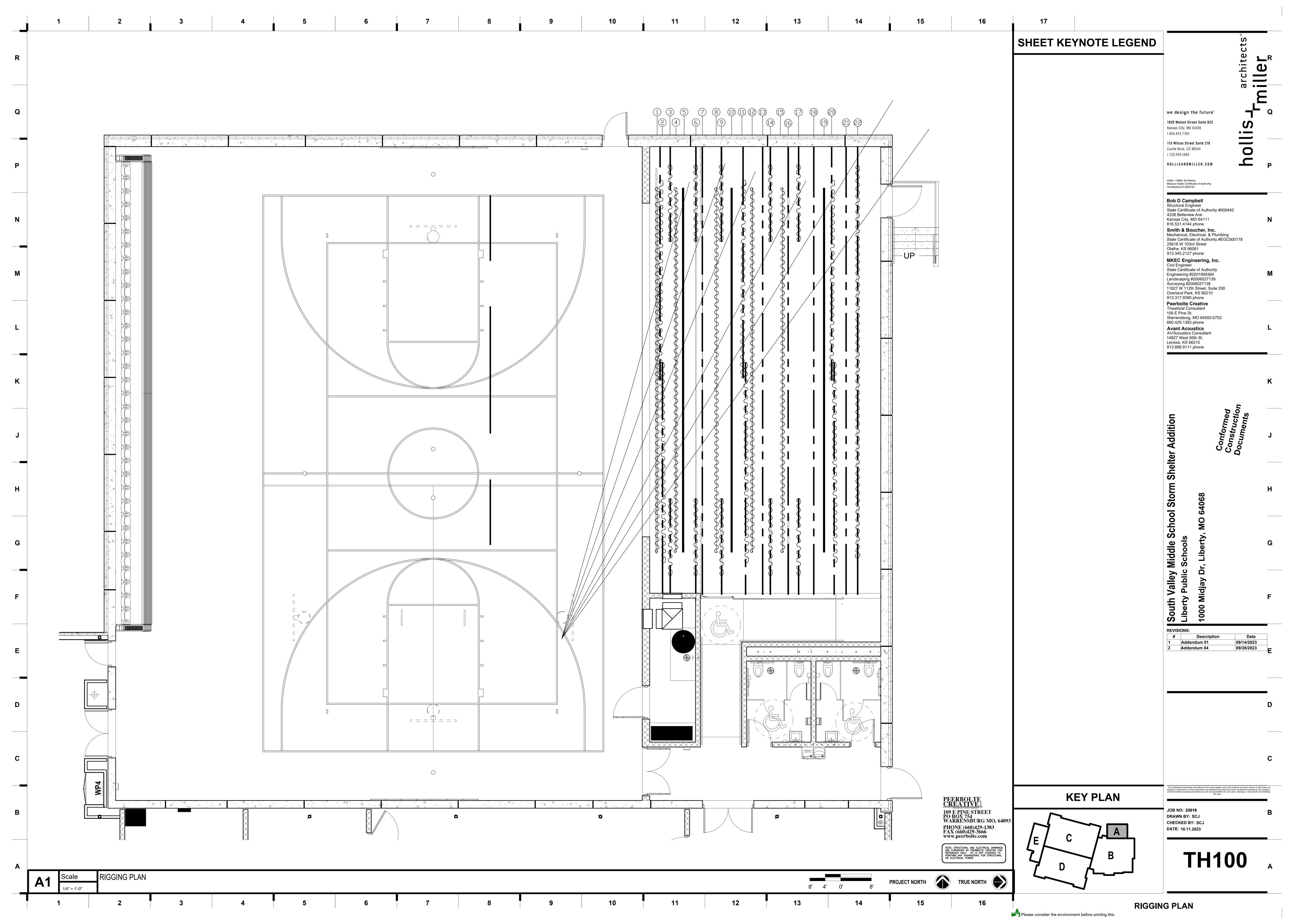


AV ONE-LINE DIAGRAM









| R | 1 2 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 1 | 4 15 | 16 | SHEET KEYNOTE LEGEND | architects ® |
|-------|------------------|---------------------|---------|-------------------------|---------------------------------|---------------------|----------------------------|--------------------------|---|------------------------|--------------------------------|---------------------------|---|---------------|--|---|--|
| Q | | | | | | | | | | | | | | | | | we design the future* 1828 Walnut Street Suite 922 Kansas City, MO 64108 T 816.442.7700 115 Wilcox Street Suite 210 |
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| N | | IDEN DI FR DA | RDM | LINE SET DESCRIPTION | CURTAIN CURTAIN WIDTH HEIGHT | CURTAIN FULLNESS | CURTAIN CURT FABRIC COL | -AIN LOW TRIM AFF* | TRACK # DR BATTEN LENGTH | DIST FROM CENTER | TRACK OPERATION | STACKING | NOTES | HANGING | ESTIMATED LOAD | | 4338 Belleview Ave Kansas City, MO 64111 816.531.4144 phone Smith & Boucher, Inc. Mechanical, Electrical, & Plumbing State Certificate of Authority #EGC000178 25618 W 103rd Street Olathe, KS 66061 913.345.2127 phone |
| М | | 1 1: | 2" | MAIN VALANCE | 47'4" 2'10" | 75% | 22 OZ ENCORE TB | | 47'4" PIPE BATTEN | LINE - | TIED TO BATTEN | _ | DEAD HUNG | DEAD HUNG | 300# | | MKEC Engineering, Inc. Civil Engineer State Certificate of Authority Engineering #2001009364 Landscaping #2006027139 Surveying #2006027138 11827 W 112th Street, Suite 200 Overland Park, KS 66210 913.317.9390 phone |
| | | 2 1' | '8" | GRAND DRAPE | 26′0″(2) 21′0″ | 75% | 22 OZ ENCORE TB | 3/4" | (1)30'4" (1) 30'0" #280 TRACK | _ | ENDLESS LINE PLATFORM RIGHT | BI-PARTING | 4 CHAINS 8'AFF TWO 36" BAGS | DEAD HUNG | 1,200# | | Overland Park, KS 66210 913.317.9390 phone Peerbolte Creative Theatrical Consultant |
| | | | '8" | 1ST LEG | 10'0" 22'0" | 50% | 15 oz BLA | 1CK 3/4" | (2)12′4″ #280 TRACK | _ | ENDLESS LINE Off Platform | ONE-WAY | 4 CHAINS 8'AFF TWO 24" BAGS | DEAD HUNG | 300# | | 109 E Pine St. Warrensburg, MO 64093-0752 660.429.1383 phone |
| L | | | '5" | 1ST BORDER | 47′4″ 6′0″ | 50% | 15 OZ BLA | 17'1" | 47'4" PIPE BATTEN | _ | TIED TO BATTEN | _ | DEAD HUNG | DEAD HUNG | 300# | | Avant Acoustics AV/Acoustics Consultant 14827 West 95th St. Lenexa, KS 66215 |
| _ | | | '4" | 1ST ELECTRIC | | _ | | | 47'4" PIPE BATTEN | _ | | _ | - A CHAINS O/AFF | DEAD HUNG | 1000# | | 913.888.9111 phone |
| K | | | '0" | 2ND LEG | 10′(2) 23′(2) | 50% | 15 DZ BLA | | (2)12′4″ #280 TRACK | _ | ENDLESS LINE Off Platform | ONE-WAY | 4 CHAINS 8'AFF TWO 24" BAGS | DEAD HUNG | 300# | | v |
| rx | | 7 6' | | SCENERY TRACK | | _ | | | 58'2" 280 TRACK | _ | WALK ALONG | _ | 4 SCENERY CARRIERS | DEAD HUNG | 1000# | | r\ |
| | | 8 8' | | 2ND BORDER | 47'4" 6'0" | 50% | | | 47'4" PIPE BATTEN | _ | TIED TO BATTEN | _ | - 4 CHAINS O/AFF | DEAD HUNG | 300# | | led tion ts |
| J | | 9 9' | | 3RD LEG | 10′(2) 23′(2) | 50% | 15 OZ TB | 3/4" | (1)12'4" (1) 12'6" #280 TRACK | - | ENDLESS LINE Off Platform | ONE-WAY | 4 CHAINS 8'AFF TWO 24" BAGS | DEAD HUNG | 300# | | Iditio |
| - | | 10 10 |)'8" | 2ND ELECTRIC | | _ | | 21′0″^ | 47'4" PIPE BATTEN | _ | | _ | DEAD HUNG | DEAD HUNG | 1,500# | | Confo |
| - | | 11 12 | 2'0" | MID TRAVELLER | 26′0″(2) 22′0″ | 50% | 15 DZ BLA | ACK 3/4" | (1)30'2" (1) 30'0" #280 TRACK | _ | ENDLESS LINE Off Platform | BI-PARTING | 4 CHAINS 8'AFF TWO 36" BAGS | DEAD HUNG | 1,000# | | helte — |
| н | | 12 13 | 3'4" | 3RD BORDER | 47'4" 5'0" | 50% | 15-0Z BLA | nCK 18′0″″ | 47'4" PIPE BATTEN | _ | TIED TO BATTEN | _ | _ | DEAD HUNG | 300# | | S E H |
| | | 13 14 | 1'8" | SCENERY TRACK | | _ | | 21′0″^ | 58'2" 280 TRACK | - | WALK ALONG | _ | 4 SCENERY CARRIERS | DEAD HUNG | 1000# | | Stor 14068 |
| | | 14 15 | 5'8" | 4TH LEG | 10′(2) 23′(2) | 50% | 15 -OZ TB | 3/4" | (1)12'4" (1) 12'6" #280 TRACK | _ | ENDLESS LINE Off Platform | ONE-WAY | 4 CHAINS 8'AFF TWO 24" BAGS | DEAD HUNG | 300# | | MO 6 |
| G | | 15 17 | 7'4" | 4TH BORDER | 47'4" 6'0" | 50% | 15 DZ BLA | nCK 17′0″″ | 47'4" PIPE BATTEN | _ | TIED TO BATTEN | _ | _ | DEAD HUNG | 300# | | e Scons ols |
| | | 16 18 | 3'0" | SCENERY TRACK | | _ | | | 58'2" 280 TRACK | _ | WALK ALONG | _ | 4 SCENERY CARRIERS | DEAD HUNG | 1000# | | Valley Middle y Public Schools Midjay Dr, Libert |
| - | | 17 19 | 9'4" | 5TH LEG | 10′(2) 23′(2) | 50% | 15-0Z TB | 3/4" | (1)12'4" (1) 12'6" #280 TRACK | _ | ENDLESS LINE Off Platform | ONE WAY | 4 CHAINS 8'AFF TWO 24" BAGS | DEAD HUNG | 300# | | ley Nablic Say Dr, |
| F | | 18 21 | 1'4" | SCENERY TRACK | | - | | 23′0″^ | 58'2" 280 TRACK | _ | WALK ALONG | _ | 4 SCENERY CARRIERS | DEAD HUNG | 1000# | | h Val ty Pu Midja |
| | | 19 22 | 2'8" | 3RD ELECTRIC | | _ | | 23′0″^ | 47'4" PIPE BATTEN | _ | - - | _ | - A CHAING C/AFF | DEAD HUNG | 1,500# | | South Liberty 1000 Mi |
| | | 20 24 | | UPPLATFORM TRAVLER | 26'0'(2) 22'0" | 50% | 15 DZ BLA | ICK 3/4" | (1)30'2" (1) 30'0" #280 TRACK | _ | ENDLESS LINE PLATFORM RIGHT | BI-PARTING | 4 CHAINS 8'AFF TWO 36" BAGS | DEAD HUNG | 1,000# | | REVISIONS: |
| E | | 21 25 | | SCENERY TRACK | | _ | | 23′0″^ | | _ | - ENDLESS LINE | WALK ALONG | 4 SCENERY CARRIERS 2 CHAINS 8'AFF | DEAD HUNG | 1000# | | # Description Date 1 Addendum 01 09/14/2023 2 Addendum 04 09/28/2023 |
| | | 22 27 | 7'0" | CYC | 51'0" 22'0" | 0% | – GRE | EY 3/4" | 58'2" TRACK | _ | PLATFORM LEFT | ONE-WAY | DNE 36" BAG | DEAD HUNG | 500# | | |
| _ | | SCOREBOA | ARD CUR | TAIN | | | | | | | | | | | | | |
| D | | | BD BD | SCOREBOARD | 4'6" 5'0" | 0% | BANJO TB | SD 15′1″ | (1)13'8" 113 SPECIFINE | _ | ENDLESS LINE HOUSE LEFT | BI-PARTING OP 10'0"AFF | MOUNT 3" ABOVE Scoreboard | WALL MOUNT | 200# | | D |
| | | | | OR, TO CENTERLINE OF E | FIFCTRIC LOWER P | ATTEN OR | | | | | | _ | | | | | |
| | | | | SR, TO CENTERLINE OF E | | | | | XISTING CONDITIONS AN | ID FIELD MEAS | UREMENTS. | | | | | | |
| С | | | | | | | | | | | | | | | | | C |
| | | | | | | | | | | | | | | | | IZEV DI AN | The Professional Architects 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 architect, and this architect expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal. |
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| _ | | | | | | | | | | | | | | | 109 E PINE STREET PO BOX 754 WARRENSBURG MO, 6409 PHONE (660)429-1383 FAX (660)429-3666 | 93 | DRAWN BY: SCJ CHECKED BY: SCJ DATE: 10.11.2023 |
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| | A1 Scale RIGGING | SCHEDULE | | | | | | | | | | | 8' 4' 0' | PROJECT NORTH | TRUE NORTH | | |
| | 1 2 | I | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 1 | 4 15 | 16 | BICC | ING SCHEDULE |
| ı | l | ı | | , I | I | | | • | i e e e e e e e e e e e e e e e e e e e | • | i I | I | I | l | ı | Please consider the environment before printing this. | |

