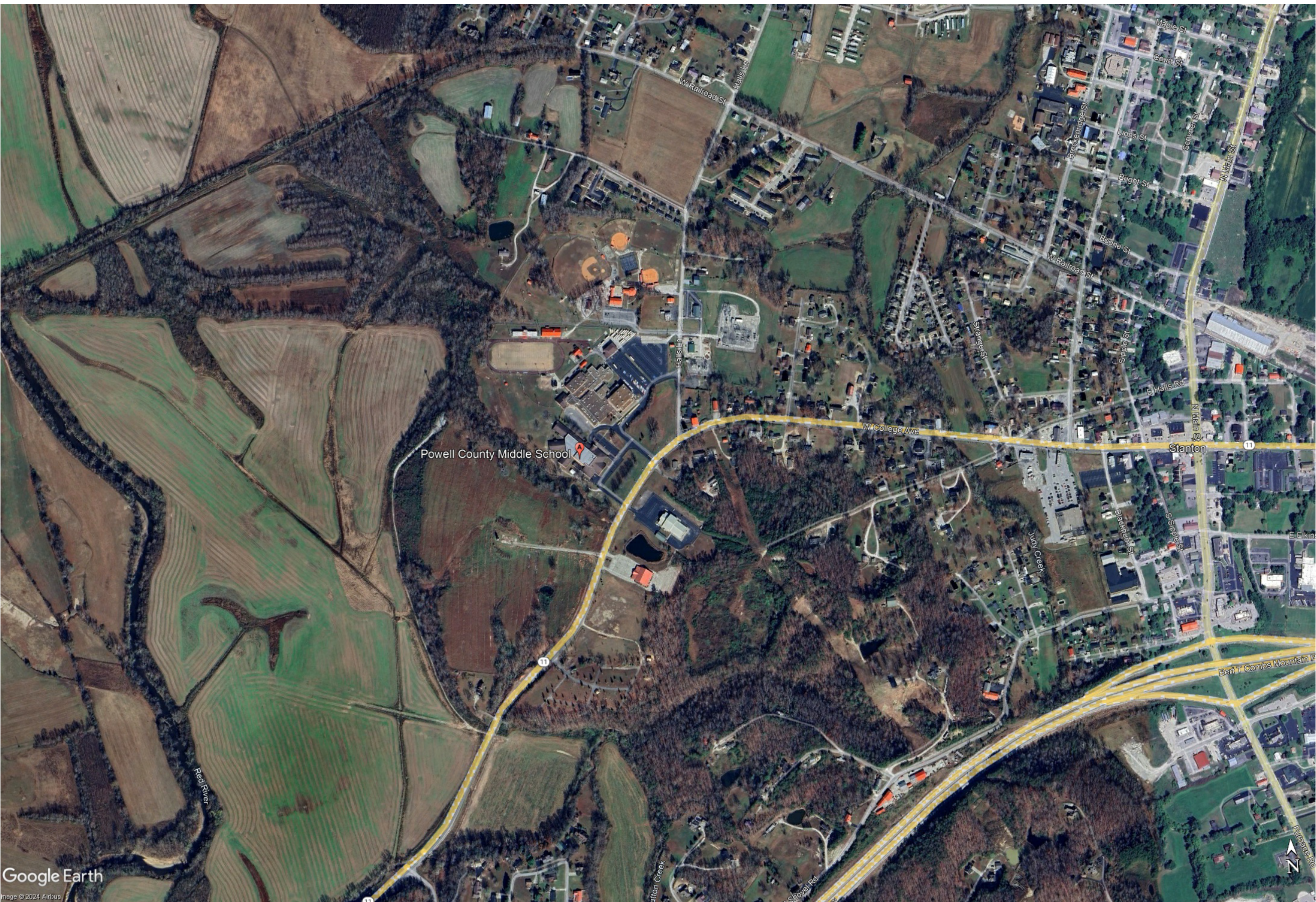


C:\Users\david\Documents\2024-52 - POWEL CO MS_sdr\JBL12-24



POWELL CO. MS WALL REPAIR

770 WEST COLLEGE AVENUE, STANTON KY 40380



PACKAGE

CONSTRUCTION DOCUMENTS

12.17.24

OWNER
POWEL COUNTY PUBLIC SCHOOLS
691 Breckinridge Street
Stanton, Ky 40380

ARCHITECT
JRA ARCHITECTS
301 E Vine St
Lexington, KY 40507
P: 859.252.6781
F: 859.255.5483

STRUCTURAL ENGINEER
POAGE ENGINEERING & ASSOCIATES
880 Sparta Ct
Lexington, KY 40504
P: 859.255.9034

MECHANICAL / ELECTRICAL ENGINEER
KFI ENGINEERS
2343 Alexandria Dr, Suite #200
Lexington, KY 40504
P: 859.271.3246

DRAWING INDEX

- G-001 COVER SHEET
- G-101 INFORMATION DRAWING
- G-102 LOCATIONS AND LAYOUT RULES
- S101 FOUNDATION PLAN
- S301 SECTIONS & DETAILS
- A-100 DEMO PLAN
- A-101 FLOOR PLAN - NEW WORK
- A-102 ROOF PLAN AND ELEVATION
- A-103 DETAILS
- A-104 ENLARGED GYMNASIUM PLAN
- M-000 MECHANICAL COVER PAGE
- M-001 MECHANICAL SYMBOLS
- M-100 MECHANICAL PLANS
- E-000 ELECTRICAL SYMBOLS AND ABBREVIATIONS
- E-100 ELECTRICAL PLANS



301 E Vine St
Lexington, Kentucky 40507
859.252.6781



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CONSTRUCTION DOCUMENTS

POWELL CO. MS WALL REPAIR

POWELL COUNTY SCHOOLS
770 WEST COLLEGE AVENUE, STANTON KY 40380

GENERAL

PROJECT	2024-52
DATE	12.17.24

REVISIONS

No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE, OR IN PART, FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

COVER SHEET

G-001

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SYMBOLS LEGEND

VICINITY MAP

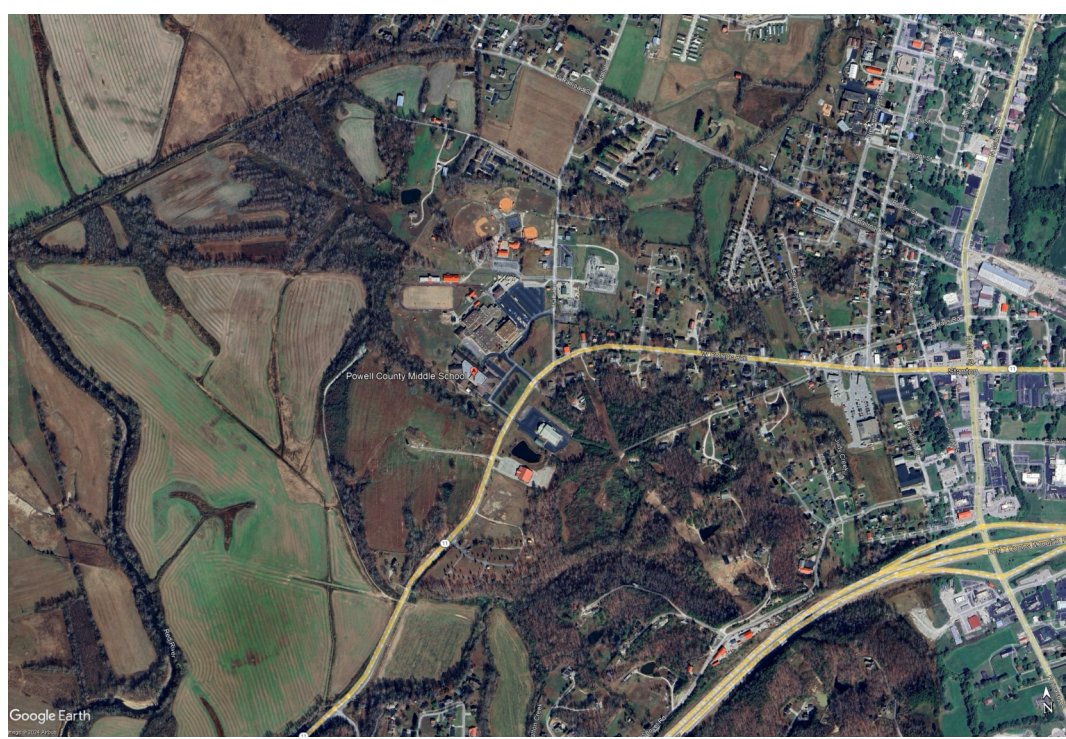
APPLICABLE CODES/STANDARDS

	ACOUSTICAL CEILING PANEL		CRUSHED STONE		RIGID INSULATION
	ALUMINUM		EARTH		SPRAY FOAM INSULATION
	BATT INSULATION		E.I.F.S. (ELEVATION)		SPRAY FIRE RESISTIVE MATERIAL
	BRICK		E.I.F.S. (SECTION)		SOLID SURFACE
	CERAMIC OR QUARRY TILE		GYPSUM BOARD (TYPE AS NOTED)		STEEL
	CMU		LIMESTONE		SOLID WOOD (TREATMENT AS NOTED)
	CONCRETE (SECTION)		PLYWOOD		UPHOLSTERY
	CONCRETE OR PRECAST CONCRETE (PLAN / ELEVATION)		PRECAST CONCRETE (SECTION)		WOOD (FINISH)
	ROOM NAME & ROOM NUMBER				BUILDING SECTION
	ROOM NUMBER (RCP PLANS)				WALL SECTION
	DOOR OPENING INDICATOR				DETAIL SECTION
	EXTERIOR WINDOW OPENING INDICATOR				DETAIL CALLOUT OR ENLARGED PLAN
	INTERIOR WINDOW OPENING INDICATOR				EXISTING DOOR AND FRAME TO REMAIN
	PARTITION TYPE INDICATOR		NEW DOOR AND FRAME		REMOVE DOOR AND FRAME
	EQUIPMENT INDICATOR		ITEM TO BE REMOVED		
	CEILING INDICATOR		ITEM TO REMAIN		
	DEMOLITION PLAN NOTE		MATERIAL INDICATOR		
	PLAN NOTE		CONTROL JOINT		
	ACCENT WALL INDICATOR		CENTER LINE		

SYMBOLS LEGEND

	ACOUSTICAL CEILING PANEL		CRUSHED STONE		RIGID INSULATION
	ALUMINUM		EARTH		SPRAY FOAM INSULATION
	BATT INSULATION		E.I.F.S. (ELEVATION)		SPRAY FIRE RESISTIVE MATERIAL
	BRICK		E.I.F.S. (SECTION)		SOLID SURFACE
	CERAMIC OR QUARRY TILE		GYPSUM BOARD (TYPE AS NOTED)		STEEL
	CMU		LIMESTONE		SOLID WOOD (TREATMENT AS NOTED)
	CONCRETE (SECTION)		PLYWOOD		UPHOLSTERY
	CONCRETE OR PRECAST CONCRETE (PLAN / ELEVATION)		PRECAST CONCRETE (SECTION)		WOOD (FINISH)
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	DOOR OPENING INDICATOR				DETAIL SECTION
	EXTERIOR WINDOW OPENING INDICATOR				DETAIL CALLOUT OR ENLARGED PLAN
	INTERIOR WINDOW OPENING INDICATOR				EXISTING DOOR AND FRAME TO REMAIN
	PARTITION TYPE INDICATOR		NEW DOOR AND FRAME		REMOVE DOOR AND FRAME
	EQUIPMENT INDICATOR		ITEM TO BE REMOVED		
	CEILING INDICATOR		ITEM TO REMAIN		
	DEMOLITION PLAN NOTE		MATERIAL INDICATOR		
	PLAN NOTE		CONTROL JOINT		
	ACCENT WALL INDICATOR		CENTER LINE		

VICINITY MAP



APPLICABLE CODES/STANDARDS

2015 KENTUCKY BUILDING CODE - (BASED ON THE 2015 INTERNATIONAL BUILDING CODE)

2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

2015 INTERNATIONAL MECHANICAL CODE

2012 INTERNATIONAL ENERGY CONSERVATION CODE (COMMERCIAL BUILDINGS)

2020 KENTUCKY PLUMBING LAW, REGULATIONS, & CODE (815 KAR Chapter 20)

2015 INTERNATIONAL FIRE CODE (IFC) - (NEW CONSTRUCTION PROJECTS, AND ONLY WHEN SPECIFICALLY REFERENCED BY THE BODY OF KBC)

1996 KENTUCKY STATE BOILER REGULATION (KRS 238, 815 KAR Chapter 15)

2012 NFPA 1 - UNIFORM FIRE CODE (AS DIRECTED BY 2013 KENTUCKY STANDARDS OF SAFETY)

2013 NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

2013 NFPA 14 - INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

2012 NFPA 54 - NATIONAL FUEL GAS CODE

2017 NFPA 70 - NATIONAL ELECTRICAL CODE

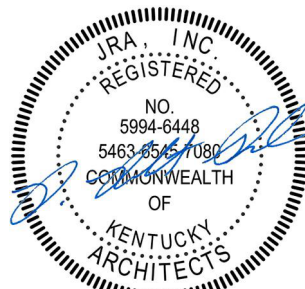
2013 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE

2012 NFPA 101 - LIFE SAFETY CODE (HEALTH CARE FACILITIES)

GB-03-01 SEAK - SPECIAL INSPECTION GUIDELINES, THIRD EDITION, MARCH 2007

2015 INTERNATIONAL EXISTING BUILDING CODE

THE ABOVE IS FOR REFERENCE ONLY AND IS ONLY REPRESENTATIVE OF THE MANY CODES AND STANDARDS CURRENTLY USED IN KENTUCKY. FOR SPECIFICS, REFER TO CHAPTER 36 OF THE KBC AND IB



RESERVED FOR AHJ STAMP

GENERAL NOTES

GENERAL NOTES - ARCHITECTURAL

WORK SHOWN ON THE DRAWINGS SHALL BE BASED UNLESS SPECIFICALLY NOTED TO BE ALTERNATE BID.

FIELD VERIFY FINISH FLOOR ELEVATIONS PRIOR TO STARTING CONSTRUCTION TO MATCH NEW FLOOR ELEVATION WITH EXISTING UNLESS NOTED OTHERWISE.

DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FINISHED SURFACE. DIMENSIONS TO NEW CONSTRUCTION ARE TO STRUCTURAL, CENTERLINE, FACE OF CONCRETE OR MASONRY CONSTRUCTION, OR TO FINISH FACE OF FRAMED MEMBERS UNLESS NOTED OTHERWISE. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.

WHERE A FIXED DIMENSION IS SHOWN ON AN ACCESSIBLE FIXTURE OR ACCESSORY, THAT ITEM SHALL BE INSTALLED EXACTLY AS DIMENSIONED. REFER TO THE ACCESSORY MOUNTING LEGEND FOR DIMENSIONS.

DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO ARCHITECT FOR INTERPRETATION.

FLOOR AND FRAME NUMBERS CORRESPOND TO RESPECTIVE ROOM NUMBERS. IN ROOMS WITH MULTIPLE OPENINGS, A SUFFIX HAS BEEN ADDED TO DOOR NUMBERS, I.E. A101-B.

COORDINATE EQUIPMENT WORK WITH MANUFACTURERS AND SUPPLIERS TO INSURE PROPER INSTALLATION OF ALL EQUIPMENT.

PROTECT EXISTING SURFACES TO REMAIN THAT ARE NOT INCLUDED IN SCOPE OF WORK BUT THAT ARE WITHIN AREAS OF CONSTRUCTION ACTIVITY.

FOR ONE CONCRETE MASONRY UNIT PLUS ONE MORTAR JOINT, THREE EQUAL CUBIC INCHES (8) PER MORTAR JOINT UNLESS OTHERWISE NOTED.

THIRTY NINE MASONRY UNITS UNLESS NOTED OTHERWISE.

THIRTY NINE MASONRY UNITS FOR EVERY OTHER COURSE OF EXISTING MASONRY UNLESS OTHERWISE NOTED. PRICE INCLUDES ALL MATERIALS AND LABOR FOR NEW AND EXISTING MASONRY AT CONDITIONS THAT PROHIBIT TOOTHED-TYPE CONSTRUCTION. HORIZONTAL JOINTS OF NEW MASONRY SHALL MATCH EXISTING UNLESS OTHERWISE INDICATED. NEW MASONRY BOND SHALL BE CONSISTENT UNLESS OTHERWISE INDICATED.

VERIFY MOUNTING HEIGHTS OF ACCESSORIES, EQUIPMENT, DOOR HARDWARE, CASEWORK, ETC., AND PROVIDE SLOD XK SUPPORT WOOD BLOCKING FASTENED TO FRAMING MEMBERS AS REQUIRED TO SUPPORT EQUIPMENT. VERIFY MOUNTING HEIGHTS. WHEN MOUNTING HEIGHTS ARE NOT NOTED, LOCATE ITEMS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS. COORDINATE LOCATIONS WITH MANUFACTURER OR SUPPLIER AND REFER QUESTIONS TO ARCHITECT FOR INTERPRETATION.

ALL EXTERIOR ENVELOPE CONDITIONS, SOLID WOOD BLOCKING INDICATED SHALL BE CONTINUOUS, LVL'S.

PROVIDE SEALANT BETWEEN HOLLOW METAL FRAME PERIMETERS AND SURROUNDING WALL CONSTRUCTION UNLESS OTHERWISE INDICATED.

PROVIDE SEALANT BETWEEN INTERIOR AND EXTERIOR WINDOW AND STOREFRONT FRAME PERIMETERS, SURROUNDING WALLS UNLESS OTHERWISE INDICATED.

PROVIDE SEALANT BETWEEN DISSEMINATED MATERIALS SUCH AS GYPSUM BOARD AND MASONRY, MASONRY AND CONCRETE, COUNTERTOPS AND WALLS ETC.

SEPARATE WOOD SPECIES FROM STRUCTURAL WOOD. WOODS DAMAGED DUE TO INSTALLATION OF NEW MATERIALS TO REQUIRE SPECIFIED FIRE RATINGS.

DO NOT BEGIN WORK THAT MAY REQUIRE COORDINATION, SUCH AS CEILING INSTALLATION, PRIOR TO FINAL SUBMITTAL OF MECHANICAL AND ELECTRICAL COORDINATION DRAWINGS TO ARCHITECT. PRIOR TO INSTALLATION OF ANY MECHANICAL OR ELECTRICAL EQUIPMENT.

REFER TO STRUCTURAL DRAWINGS FOR FOOTING, UNDERSLAB DRAINAGE AND BACKFILL REQUIREMENTS.

PROVIDE SOLID WOOD IN-WALL BLOCKING AT WALL MOUNTING DOOR STOPS IN GYPSUM BOARD WALLS.

GENERAL NOTES - CEILINGS

LOCATE CEILING GRIDS WITHIN ROOMS CHANGING DIRECTION UNLESS OTHERWISE NOTED.

LOCATE CEILING GRIDS WITHIN ROOMS SUCH THAT BORDERS CONTAIN NOT MORE THAN 1/2 TILE WITH CENTER INTERFERENCES.

CONCRETE PENETRATIONS IN ACoustICAL CEILING SYSTEMS WITH INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC., UNLESS OTHERWISE NOTED.

PROVIDE CEILING JOINTS (CJ) IN GYPSUM BOARD CEILING CONSTRUCTION AS NOTED.

PROVIDE CONTROL JOINTS (CJ) IN GYPSUM BOARD CEILING CONSTRUCTION AS NOTED, WHEN NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 3'-0". VERIFY FINAL CONTROL JOINTS TO BE LOCATED WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT NOTED ON THE DRAWINGS.

GENERAL NOTES - DOORS AND FRAMES

A	REFER TO WALL SECTIONS AND INTERIOR PARTITION TYPES FOR ADDITIONAL NOTES REGARDING TYPICAL WALL CONSTRUCTION.
C	ALL FIRE RATED DOORS SHALL BE CATEGORY "A" POSITIVE PRESSURE RATED COMPLYING WITH THE REQUIREMENTS OF UL 10C TESTING. ADDITIONAL INTUMESCENT SEALS SHALL NOT ACCEPTABLE.
F	PROVIDE CYLINDERS AND CORES FOR ALL DOOR HARDWARE CAPABLE OF BEING CHANGED AND KEYS CAN BE CHANGED BY THE USER WITHOUT THE NEED OF A KEY.
G	GROUT FILL NEW HOLLOW METAL DOOR FRAMES IN MASONRY WALL CONSTRUCTION.
H	SPOT GROUT NEW HOLLOW METAL DOOR FRAMES IN GYPSUM BOARD WALL CONSTRUCTION.
H	WHERE A FIRE RATING IS INDICATED ON THE DOOR SCHEDULE, HARDWARE AND DOOR ASSEMBLY COMPONENTS SHALL MEET THE REQUIREMENTS OF THAT LABEL.
J	AT DOORS WITH GLASS LITES, BOTTOM OF GLASS MUST BE NO HIGHER THAN 43" WHEN INSTALLED.

GENERAL NOTES - FINISHES

R REFER TO FINISH PLANS, REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, ROOM FINISH SCHEDULE & FINISH MATERIAL SCHEDULE FOR FINISH MATERIAL LOCATIONS & INFORMATION.
 C PAINT NEW & EXISTING HOLLOW METAL DOORS, DOOR FRAMES - U.N.O.
 P PAINT NEW & EXISTING STEEL COLUMNS, BEAMS, STRUCTURE, INTERIOR AND EXTERIOR INTERIORS, ETC. EXCEPT FOR NEW FINISHED ARCHES - S.U.N.O.
 E PAINT NEW & EXISTING GLAZES TO MATCH COLOR OF THE WALLS IN WHICH THEY ARE LOCATED, UNLESS NOTED OTHERWISE.
 F PAINT INTERIOR AND EXTERIOR LADDERS, BRACKETS, ETC. U.N.O.
 G FINISH SPOFFS, BULKHEADS, AND SIMILAR CONDITIONS TO MATCH SURROUNDING SURFACES, UNLESS OTHERWISE NOTED. FINISH SPOFFS TO BE FINISHED IN FINISHES OF THE WALL COLOR - HORIZONTAL SURFACES TO BE PAINTED CEILING WHITE, FLAT.
 J PROVIDE FINISHES BEHIND FID EXIST EQUIPMENT SUCH AS CABINETS, CASEWORK, CHALK, AND TACKBOARDS, LOCKERS, ETC.
 K PROVIDE FINISHES BEHIND TRANSIT DOOR LOCATIONS WITH CENTERLINE OF DOOR SUCH THAT TRANSITION MATERIALS ARE NOT VISIBLE FROM EITHER SIDE WHEN DOOR IS IN CLOSED POSITION.
 N ALL FLOORING SHALL EXTEND UNDER KNEE SPACES AND COUNTERS.
 P PROVIDE SEALANT BETWEEN DOOR FRAMES AND FLOORING, UNLESS THAT FLOORING IS CARPET.

GENERAL NOTES - PARTITION TYPES

A REFER TO FLOOR PLANS FOR LOCATIONS OF ALL INTERIOR PARTITION CONTROL JOINTS.

B PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD WALL CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 37'-0". VERIFY FINAL JOINT LOCATION LOCATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS WITH ARCHITECT PRIOR TO STARTING WORK.

C PROVIDE CONTROL JOINTS (C.J.) IN MASONRY WALL CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 20'-0". PROVIDE CONTROL JOINTS AT OUTSIDE CORNERS AND JOINTS OF 17'-0". PROVIDE JOINTS BETWEEN INTERIOR LOAD BEARING AND NON-LOAD BEARING PARTITIONS. AT ALL abrupt CHANGES IN WALL HEIGHT. AT CHANGES IN MATERIAL TYPE. PROVIDE CONTROL JOINTS AT ALL CHANGES IN JOINT LOCATION. DETERMINE WHETHER OR NOT INDICATED ON THE DRAWINGS WITH ARCHITECT PRIOR TO STARTING WORK.

D REFER TO xxxxxxxxxxxxxxxxxxxxxxxxxx FOR CONTROL JOINT DETAILS. INCLUDING CONTROL JOINT DETAILS FOR FIRE-RATED WALLS.

E PROVIDE LEAD-LINED MANHOLE OPENINGS FOR THE DEFLECTION TRACER TUBE TO BE USED AT ALL PARTITIONS CONNECTED TO STRUCTURE OR BRACED TO STRUCTURE.

F PROVIDE 58" TYPE "X" GYPSUM BOARD UNLESS NOTED OTHERWISE.

G PROVIDE MOIST AND HUMIDITY RESISTANT GYPSUM BOARD ON THE INTERIOR FACE OF ALL EXTERIOR WALLS AND ROOFS.

H PROVIDE THE BACKING PANELS WHERE TILE IS INDICATED - REFER TO THE FINISH SCHEDULE AND INTERIOR ELEVATIONS. STOP BACKING PANELS 1' BELOW TOP OF TILE.

I PROVIDE LEAD-LINED GYPSUM BOARD WHERE INDICATED ON THE RADIATION SHIELDING PLAN.

K INTERIOR STUD SPACING SHALL BE MAXIMUM 16" ON CENTER UNLESS NOTED OTHERWISE.

L ALL FINISHED SURFACE PERFORMANCE REQUIREMENTS OF MATERIAL SHALL BE DETERMINED BY SPECIFICATION UNO.

M HVAC CONTRACTOR MUST REVIEW RADIATION PROTECTION PLANS ON ARCHITECTURAL DRAWING AND COORDINATE REQUIREMENTS FOR PROTECTION OF HVAC OPENINGS WITH THE RADIATION PROTECTION SPECIALIST.

N AT PENETRATIONS OF LEAD LININGS, PROVIDE LEAD SHELS AS REQUIRED TO MAINTAIN CONTINUITY OF PROTECTION. CONTRACTORS SHALL REFERENCE MECHANICAL AND ELECTRICAL CODES FOR MINIMUM PENETRATION PROTECTION REQUIREMENTS. PROVIDE LEAD LININGS AND NEW WALL MOUNTED EQUIPMENT. INSTALL SHELS ACCORDING TO MPFS INSTRUCTIONS AS INDICATED.

O FOR LID DETAILS SHOW THEM TO SHEETS xxxxxxxx FOR ADDITIONAL ASSEMBLY INFORMATION.

P PROVIDE A SECTION THROUGH U.S. DESIGN. PROVIDE THE PENETRATION ASSEMBLIES AS SHOWN ON SHEET xxxxxxxxx.

GENERAL NOTES - CEILINGS

A CENTER CEILING GRIDS WITHIN ROOMS EACH DIRECTION UNLESS NOTED OTHERWISE.

B LOCATE CEILING GRIDS WITHIN ROOMS SUCH THAT BORDERS CONTAIN NOT LESS THAN 14 TIE LINES PER 10' OF GRID.

C CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC. UNLESS OTHERWISE INDICATED.

D PROVIDE EXPOSED GYPSUM BOARD AND PLASTER CEILING SURFACES UNLESS OTHERWISE INDICATED.

E PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED, WHERE NOT SHOWN, PROVIDE CONTROL JOINTS AT 10' ONCE PER 10' OF CEILING.

F CONTROL JOINT LOCATIONS WITH ARCHITECT PER TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.

G CONTROL JOINT LOCATIONS ARE NOT INTENDING TO LIMIT NUMBER OF PANELS REQUIRED: PANEL QUANTITY SHALL BE SUFFICIENT TO PROVIDE REQUIRED ACCESS WHETHER OR NOT INDICATED ON THE DRAWINGS. VERIFY FINAL LOCATIONS WITH ARCHITECT PER TO STARTING WORK.

H REFER TO FINISH PLANS FOR ADDITIONAL CEILING FINISH INFORMATION.

I REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.

J REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES AND QUANTITIES.

K REFER TO LIFE SAFETY PROTECTION DRAWINGS FOR SPRINKLER HEAD TYPES AND QUANTITIES. HEADS

GENERAL NOTES - DEMOLITION

A COORDINATE DEMOLITION WORK WITH NEW WORK. REMOVE ADDITIONAL EXISTING ITEMS AS REQUIRED TO PERFORM NEW WORK.

B REFER TO WORK RESTRICTIONS IN THE PROJECT MANUAL. CLOSELY FOLLOW THE PROJECT MANUAL FOR ANY SPECIAL REQUIREMENTS, LOCATIONS AND TYPES OF BARRIERS, WORKING HOURS, AND NOTIFICATIONS TO THE OWNER. COORDINATE DEMOLITION TO MAINTAIN PROTECTION OF THE EXISTING BUILDING.

C REFER TO THE PROJECT MANUAL SECTIONS ENTITLED "EXECUTION" AND "SELECTIVE DEMOLITION".

D REFER TO THE MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL DRAWINGS AND COORDINATE DEMOLITION WORK WITH ALL DISCIPLINES.

E COORDINATE ALL DEMOLITION WORK WITH PROJECT MANUAL SECTIONS ENTITLED "EXECUTION" AND "SELECTIVE DEMOLITION". INTERFERE WITH EXISTING SURFACES (DO NOT REMOVE AND TRANSPORT MATERIALS IN A MANNER THAT WOULD BE UNSAFE TO PATIENTS AND STAFF. SURFACES ADJACENT TO AREAS OF DEMOLITION WHICH ARE AFFECTED BY THE WORK SHALL BE PROTECTED BY A DUST CONTROL SYSTEM AND SURFACES.

F PATCH, REPAIR AND RESTORE EXISTING FINISHES AND SURFACES TO "AS NEW" CONDITION AS REQUIRED TO MATCH SURROUNDING MATERIALS OR TO PROVIDE APPROPRIATE SUBSTRATE PROPERTIES FOR FINISHES TO BE APPLIED TO SURFACES. PATCHES AND REPAIRS TO EXISTING FINISHES ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.

G CONTRACTOR SHALL PROVIDE TEMPORARY PARTITIONS TO AVOID MIGRATION OF DUST INTO ADJACENT OCCUPIED AREAS.

H ALL DEMOLITION SHALL BE DISPOSED OF IN A MANNER ACCEPTABLE TO LOCAL AND STATE REGULATORY AGENCIES.

GENERAL NOTES - ROOFING

A VERIFY SITE, LOCATION AND NUMBER OF ROOF PENETRATIONS INCLUDING VENTS, PIPES, CURBS, ROOF DRAINS, CONDUCITS, ETC. PROVIDE NEW FLASHING AND SEAL PENETRATIONS WHEREVER ROOF PENETRATIONS ARE NOT CORRECTLY FLASHED OR SEaled.

B COMPLETE WORK ABOVE ROOF, SUCH AS MASONRY, WELDING, MASONRY RESTORATION, ETC. PRIOR TO STARTING ROOF WORK.

C VERIFY AND MAINTAIN ROOF SLOPES AND DRAINAGE PATTERNS. TEST FOR AND CORRECT ANY LEAKING CONDITIONS.

D REPAIR AND REPLACE ROOFING SYSTEM OR STRUCTURE DAMAGED BY IMPROPER STORAGE, CONSTRUCTION ACTIVITIES, OR LACK OF ADEQUATE TEMPORARY PROTECTION. THIS ALSO INCLUDES INTERIOR DAMAGE TO FINISHES, EQUIPMENT, FURNISHINGS, ETC., RESULTING FROM LEAKS.

E NEW BLOWING SLAB BE PRESERVATIVE-TREATED WOOD.

F CAP FASTENERS THAT PENETRATE ROOF DECK IN AREAS NOT CONCEALED BY CEILINGS WITH W/FLUENTS OR OTHER MEANS ACCEPTABLE TO ARCHITECT UNLESS OTHERWISE INDICATED. AREAS SUCH AS MECHANICAL STORAGE, ELECTRICAL AND ELECTRONIC EQUIPMENT ROOMS, ETC., ARE EXEMPT FROM THIS REQUIREMENT UNLESS OTHERWISE INDICATED.

GENERAL NOTES - SIGNAGE

A. ALL INTERIOR SIGNAGE (TEXT, BRAILLE, PICTOGRAMS, SIZES, ETC) SHALL CONFORM WITH ICC/ANSI A117.1 'ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES', CHAPTER 703.

B. ALL PERMANENT SIGNAGE TEXT TO BE VERIFIED WITH OWNER PRIOR TO FABRICATION.

D. MOUNT ANY INTERIOR SIGNAGE ON LATCH SIDE OF DOOR.

GENERAL

PROJECT	2024-52	
DATE	12.17.24	
REVISIONS		
No.	Description	Date

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INFORMATIC DRAWING

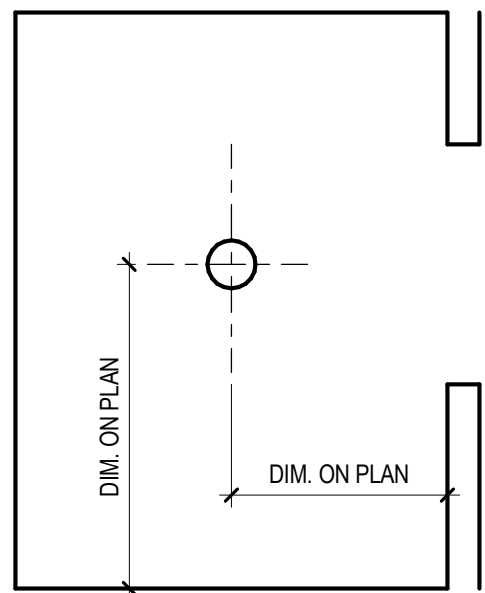
G-101

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TYPICAL RULES FOR DETERMINING REFLECTED CEILING PLAN ELEMENT LOCATIONS AND LAYOUT

LOCATE ITEM AS INDICATED WHEN SHOWN DIMENSIONED BY REFLECTED CEILING PLAN, ENLARGED REFLECTED CEILING PLAN, OR DETAIL

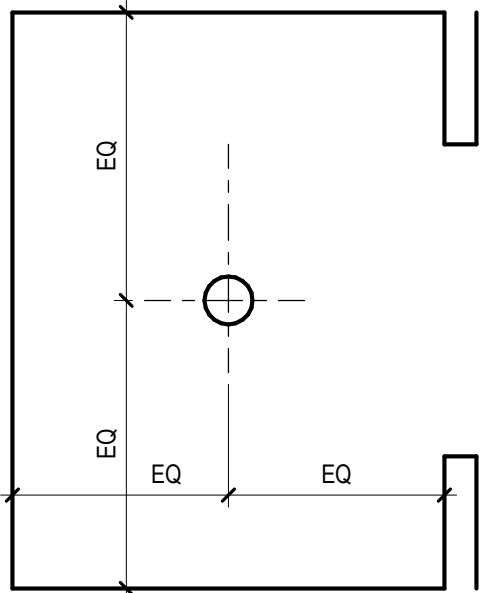
SPECIFIC DIMENSIONS SHOWN BY REFLECTED CEILING PLANS, ELEVATIONS, OR DETAILS TAKE PRECEDENCE OVER TYPICAL LOCATION RULES



RULE 1

WHEN ELEMENT IS COMPLETELY DIMENSIONED ON REFLECTED CEILING PLAN

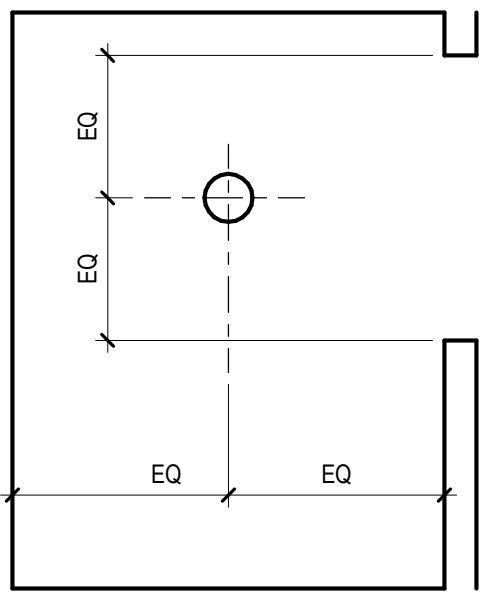
LOCATE ITEM CENTERED IN SPACE (OR CEILING PLANE) WHEN SHOWN (BUT NOT DIMENSIONED) GRAPHICALLY AT APPROXIMATE CENTER OF SPACE



RULE 2

WHEN NOT DIMENSIONED, BUT SHOWN CENTERED

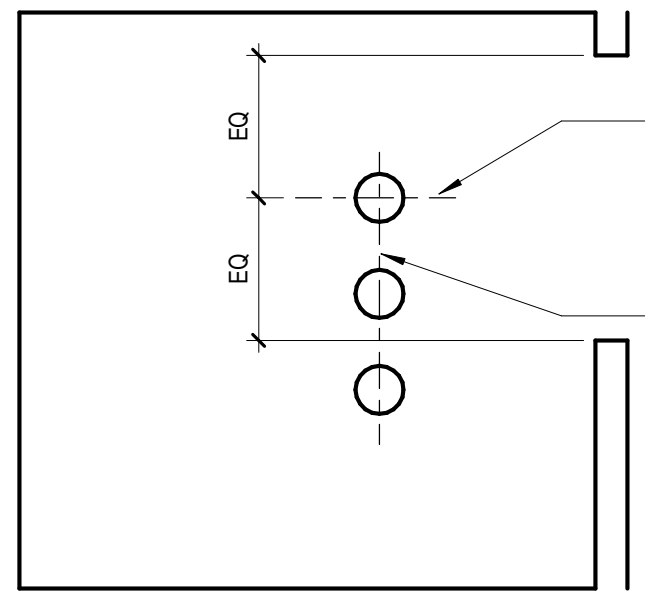
LOCATE ITEMS CENTERED ON ADJACENT OPENING, ELEMENT, OR FEATURE WHEN SHOWN (BUT NOT DIMENSIONED) OFF-CENTER IN OVERALL SPACE BUT CENTERED AGAINST ADJACENT ELEMENT



RULE 3

WHEN OFF CENTER IN SPACE BUT CENTERED ON ADJACENT ELEMENT

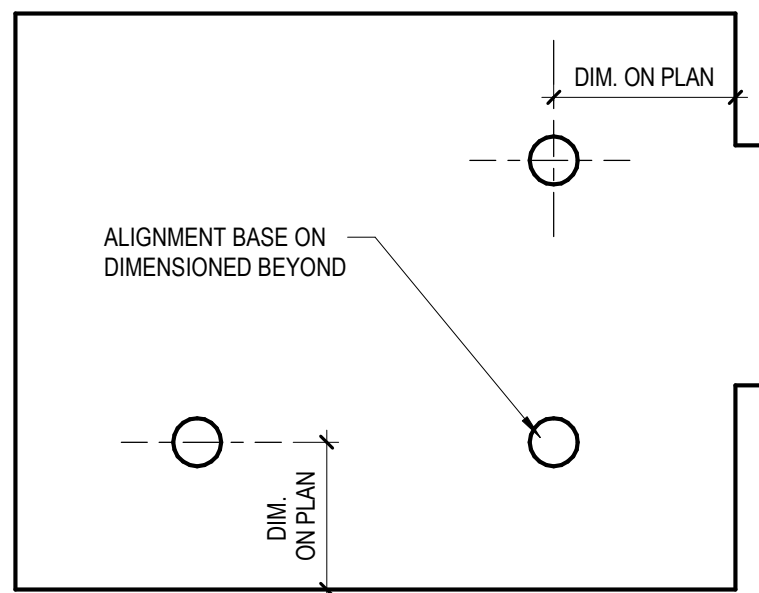
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC.) ALIGNED WITH ADJACENT ITEMS FOR WHICH DIMENSIONS OR RULES ARE PROVIDED. VISUAL ALIGNMENT IS CRITICAL. THE CONTRACTOR SHALL SELECT ONE ITEM IN EACH LINE (ON BASIS OF TOLERANCE, SEQUENCE OF CONSTRUCTION, TRADE, OR OTHER CRITERIA) TO SERVE AS THE ALIGNMENT BENCHMARK.



RULE 4

WHEN ALIGNED WITH OTHER FEATURES

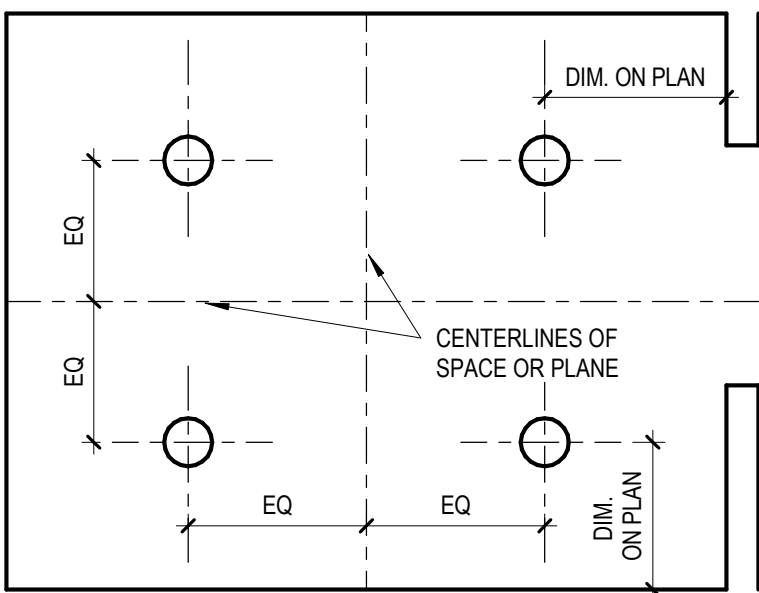
LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE)



RULE 5

ALIGN WITH FEATURES SHOWN DIMENSIONED ELSEWHERE IN SPACE

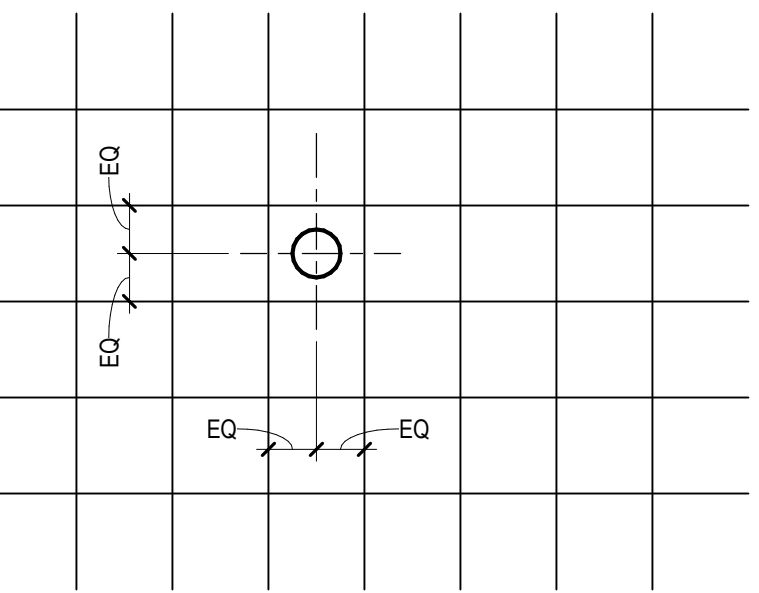
LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE)



RULE 6

LOCATE ELEMENTS SYMMETRICALLY

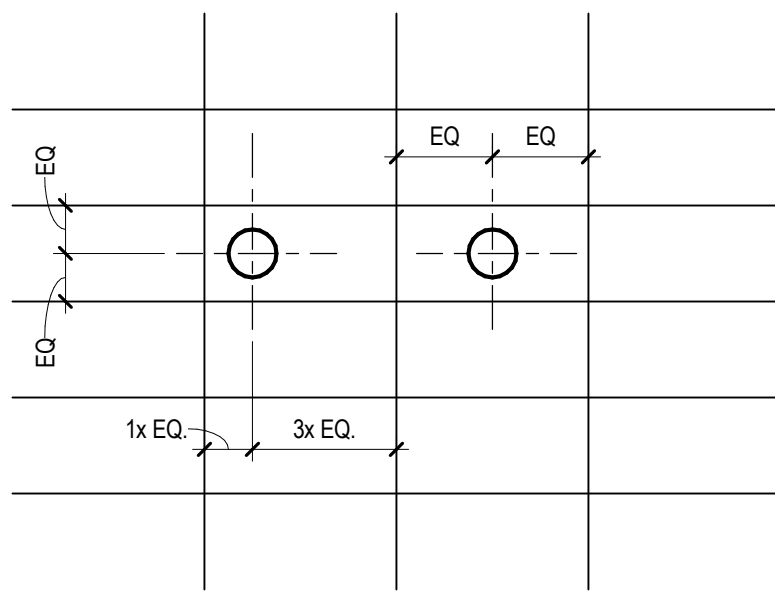
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC.) AT CENTER OF PANEL ON SQUARE GRID CEILINGS



RULE 7

WHEN NOT DIMENSIONED BUT OCCURS IN SQUARE PANEL

LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC.) AT CENTER OF SHORT PANEL DIRECTION AND 1/4, 1/2, OR 3/4 POINT OF LONG PANEL DIRECTION



RULE 8

WHEN NOT DIMENSIONED BUT OCCURS IN RECTANGULAR PANEL

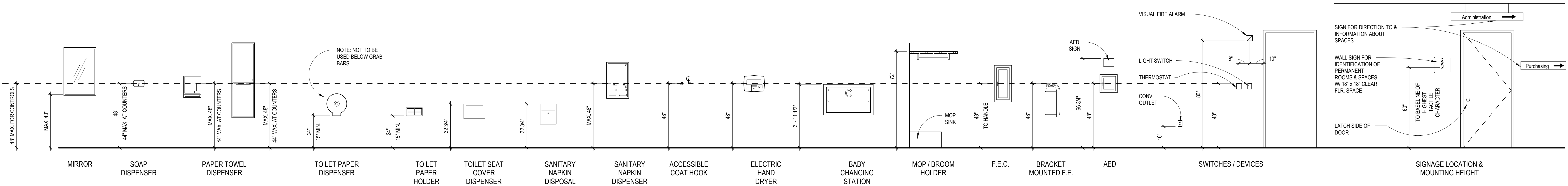
GENERAL NOTES - LAYOUT

- A THE G-SERIES OF DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS. THE G-SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL PARTS OF THE WORK.
- EXCEPTION: DIMENSIONED LOCATIONS SHOWN ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE THE FOLLOWING CONDITIONS OCCUR:
- A. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS.
- B. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIABLE SPACE FOR WHICH ARCHITECTURAL SHEET OF SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.
- B THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE THE TYPICAL RULES WHICH GOVERN THE LOCATION, CONFIGURATION IN RELATIONSHIP TO OTHER ELEMENTS OF THE WORK, AND FINISHED ALIGNMENT OF ALL ITEMS OCCURRING ON PLANS AND REFLECTED CEILING PLANS OF THE PROJECT.
- C THE A-SERIES FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, AND DETAILS ILLUSTRATE DIMENSIONED LOCATION OF MANY, BUT NOT ALL, EXPOSED PARTS OF THE WORK. APPLY THE LAYOUT RULES SHOWN ON THIS SHEET - IN ORDER - TO DETERMINE THE LOCATION OF THE EXPOSED PART OF THE WORK.
- A. WHEN UNIQUELY AND SPECIFICALLY DIMENSIONED ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS (OR COMBINATION THEREOF), LOCATE AS DIMENSIONED.
- B. IF NOT SHOWN, OR SHOWN BUT NOT DIMENSIONED, BY THE A-SERIES PLANS OR ELEVATIONS, LOCATE AS INDICATED BY THE APPLICABLE RULE.
- D REFER TO THE 'GENERAL NOTES' FOR ADDITIONAL NOTES WHICH APPLY TO THE ENTIRE PROJECT.

GENERAL NOTES - ACCESSORY MOUNTING HEIGHTS

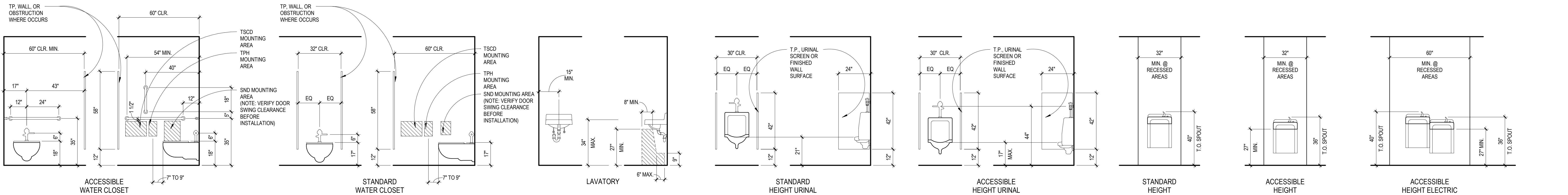
- A IT IS THE INTENT OF THE DESIGN THAT ALL ITEMS SHOWN MOUNTED AT TYPICAL HEIGHTS BE ACCESSIBLE TO PERSONS WITH DISABILITIES.
- B THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE TYPICAL MOUNTING HEIGHTS AND - WHERE APPLICABLE - TYPICAL MINIMUM OR MAXIMUM CLEARANCES AND/OR TYPICAL MOUNTING CONFIGURATIONS FOR A VARIETY OF ITEMS. CAUTION: THIS SHEET MAY ILLUSTRATE ITEMS OR CONFIGURATIONS WHICH DO NOT OCCUR AS PART OF THE WORK OF THIS PROJECT. REFER TO THE PLANS, ELEVATIONS, SECTIONS, DETAILS AND SCHEDULES TO DETERMINE WHICH ITEMS AND CONFIGURATIONS APPLY TO THE WORK OF THIS PROJECT.
- C THE MOUNTING HEIGHTS, CLEARANCES, AND CONFIGURATIONS SHOWN ON THIS SHEET ARE TYPICAL AND SHALL APPLY TO ALL INSTANCES OF THE ITEM (OR GROUP OF ITEMS) SHOWN UNLESS SPECIFICALLY NOTED OR DIMENSIONED OTHERWISE.
- D SPECIAL OR NON-TYPICAL MOUNTING HEIGHTS OCCUR ONLY WHERE INDICATED BY ANNOTATED SYMBOLS BY KEY NOTES BY NOTES ON PLANS, ELEVATIONS, OR DETAILS, OR BY UNIQUE DIMENSIONS ON ELEVATIONS OR DETAILS.
- E MOUNTING HEIGHTS, DIMENSIONS, CLEARANCES, AND ACCESS REQUIREMENTS FOR TOILET ACCESSORIES SHOWN ON THIS SHEET ARE BASED UPON SPECIFIC MANUFACTURERS AND MODELS AS INDICATED BY THE 'EQUIPMENT SCHEDULE'. WHEN SIMILAR ACCESSORIES OR OTHER SPECIFIED ACCEPTABLE MANUFACTURES (IF ANY) ARE UTILIZED, MOUNTING HEIGHTS, CLEARANCES, AND ACCESS REQUIREMENTS OF THE SIMILAR ACCESSORIES MAY VARY FROM THOSE SHOWN. WHEN SIMILAR ACCESSORIES ARE UTILIZED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION REQUIRED TO ACHIEVE THE SAME AESTHETIC AND FUNCTIONAL DESIGN INTENT ILLUSTRATED BY THAT SHOWN ON THE DRAWINGS.
- F TACTILE EXIT SIGNS: A TACTILE EXIT SIGN STATING 'EXIT' AND COMPLYING WITH ANSI A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEWAY AND EXIT DISCHARGE.

FIXTURE, DEVICE, AND ACCESSORY MOUNTING HEIGHTS



TOILET ACCESSORIES, DEVICE, AND EQUIPMENT MOUNTING HEIGHTS

(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)



PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS

(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)



301 E Vine St
Lexington, Kentucky 40507
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RESERVED FOR AHJ STAMP

CONSTRUCTION DOCUMENTS

POWELL CO. MS WALL REPAIR

POWELL COUNTY SCHOOLS
770 WEST COLLEGE AVENUE, STANTON KY 40380

GENERAL

PROJECT	2024-52
DATE	12.17.24

REVISIONS

No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSMIT THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR RELIEF OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

LOCATIONS
AND LAYOUT
RULES

G-102

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STRUCTURAL QUALITY ASSURANCE PLAN

GENERAL

THE NEW STRUCTURE TO BE CONSTRUCTED IS ASSIGNED BY THE KENTUCKY BUILDING CODE, 2018 EDITION, TO SEISMIC USE GROUP AND SEISMIC DESIGN AS SPECIFIED. AS SUCH, THE BUILDING CODE MANDATES SPECIAL INSPECTION (SECTION 1704), SPECIAL INSPECTIONS FOR WIND RESISTANCE (SECTION 1705.11), SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (SECTION 1705.12), STRUCTURAL OBSERVATION FOR SEISMIC RESISTANCE (SECTION 1704.6.1) AND STRUCTURAL OBSERVATIONS FOR WIND REQUIREMENTS (SECTION 1704.6.2). STRUCTURAL QUALITY ASSURANCE PLAN SPECIFICALLY IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE REQUIRED TESTING AND INSPECTION OF THE STRUCTURAL WORK.

CONTRACTOR RESPONSIBILITIES

In accordance with Section 1704.4 of the Building Code, the Contractor shall submit to the Building Official and the Architect a written statement of responsibility that contains the following:

- Acknowledgement of awareness of the special requirements contained within this Structural Quality Assurance Plan.
- Acknowledgement that control shall be exercised to obtain conformance with the construction documents approved by the Building Official.
- Procedures for exercising control with the Contractor's organization, the method and frequency of reporting, and the distribution of reports.
- Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.

The Structural Testing/Inspection Agency that is to act as the Special Inspector will be hired by the Owner.

Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents due to negligence or nonconformance and shall pay for any additional structural testing/inspection required for his convenience.

The Contractor is responsible to ensure that the Special Inspector is present for all work requiring special inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed.

The Contractor has the following responsibilities to the Special Inspector:

- Provide copy of Construction Documents to the Special Inspector.
- Notify the Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
- Cooperate with Special Inspector and provide access to work.
- Provide samples of materials to be tested in required quantities.
- Provide storage space for the Special Inspector's exclusive use, such as for storing and curing concrete testing samples.
- Provide labor to assist the Special Inspector in performing tests/inspections.

SPECIAL INSPECTOR RESPONSIBILITIES

The Special Inspector shall maintain records of inspections in accordance with Section 1704.2.4 and shall distribute these records to the Architect and Structural Engineer on a weekly basis. At the conclusion of the project, the Special Inspector shall submit a written statement that the special inspections during construction have complied with this Structural Quality Assurance Plan and that any discrepancies noted during construction have been corrected.

SOILS & ROCK BEARING

The Special Inspector shall perform the following:

- Verify structural fill complies with specifications and the geotechnical report.
- Observe proof--rolling
- Perform field density tests to verify compaction of structural fill. As a minimum, perform one test per lift for every 2500 square feet of fill placed.
- Inspect footing trenches & ensure proper bearing on rock & conc. fill to rock per geotechnical report and specifications.

NON-SHRINK GROUT UNDER STEEL BASE PLATES

The Special Inspector shall perform the following:

- Compressive strength tests per ASTM C109.
- Number of Tests: One test for each ten bags of grout used or minimum of one test for each day of grouting.
- Cube Size: 2--inch x 2--inch.
- Test Schedule:One cube at 3 days, two cubes at 7 days, three cubes at 28 days.

CAST-IN-PLACE CONCRETE

The Contractor shall perform the following:

- Establish concrete mix design proportions per ACI 318, Chapter 5. Submit (5) copies of concrete mix designs. Include the following:

- Type and quantities of materials
- Slump
- Air content
- Fresh unit weight
- Aggregates sieve analysis
- Design compressive strength
- Location of placement in structure
- Method of placement
- Method of curing
- Seven-day and 28--day compressive strengths

- Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the specified ASTM and ACI standards.

- Submit certification that the ready--mixed concrete plant complies with the requirements of the National Ready Mix Concrete Association.

The Special Inspector shall perform the following:

- Verify quantity, location, and placement of reinforcing steel prior to concrete placement.
- Examine concrete in truck to verify that concrete appears properly mixed.

- Perform a slump test as deemed necessary for each concrete load. Record if water or admixtures are added to the concrete at the job site. Perform additional slump tests after job site adjustments.

- Mold four specimens per set for compressive strength testing: one set for each 50 cubic yards (or portion thereof) of each mix design in any one day. For each set set molded, record:

- Slump
- Air content
- Unit weight
- Temperature, ambient and concrete
- Location of placement
- Any pertinent information, such as addition of water, addition of admixtures, etc.

- Perform one 7--day and two 28--day compressive strength tests. (Use one as a spare to be broken as directed by the Structural Engineer if compressive strengths do not appear adequate.)

- Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and time of break.

CONCRETE MASONRY

Contractor shall perform the following:

- Submit a certification from each manufacturer or supplier stating that the following materials comply with the specified ASTM or ACI Standards:

- Concrete masonry units.
- Mortar materials: Portland cement, hydrated lime, and aggregates.
- Grout materials: Portland cement and aggregates.
- Joint reinforcement steel.
- Reinforcing steel.

- For reinforcing steel used in concrete masonry walls, submit certified mill test reports.

Special Inspector shall perform the following:

- Verify compressive strength of concrete masonry units, mortar, and coarse grout for every 5,000 sq. ft. of surface area (or portion thereof) as follows:

- Three (3) concrete masonry units shall be tested in accordance with ASTM C140.
- Six (6) mortar cube specimens shall be tested, three (3) at 7--days and three (3) at 28--days, in accordance with ASTM C109.
- Four (4) coarse grout specimens shall be tested, two (2) at 7--days and two (2) at 28--days, in accordance with ASTM C--109.

- In lieu of individual tests of masonry units, mortar, and grout, perform one (1) prism test (which consists of three prisms) in accordance with ASTM E447.

- Provide continuous inspection to verify compliance of the following:

- Cleanliness of grout space prior to grouting.
- Placement of grout in reinforced cells.
- Preparation of required grout and mortar specimens.
- Welding of reinforcing bars.

- Provide periodic inspection to verify compliance of the following:

- Proportions of site--prepared mortar or grout.
- Construction of mortar joints.
- Quantity, size, location, and support of reinforcing steel.
- Quantity, size, and placement of horizontal joint reinforcement.
- Type, size and location of anchors.
- Protection of masonry during cold or hot weather.

STRUCTURAL STEEL

The Contractor shall perform the following:

- The steel fabricator shall be AISC or AWS Certified, refer to Spec. 05120.
- Submit certified mill test reports for structural steel.
- Submit manufacturer's certificate of compliance for high--strength bolting and weld filler materials.
- If the fabricator is not certified, then the fabricator shall reimburse the owner for the costs of these tests.

The Special Inspector shall perform the following:

- Provide continuous inspection to verify compliance of the following:
 - Inspection of slip--critical connections, except periodic inspection may be performed when using torque control bolts (twist off)
 - Complete and partial penetration groove welds. Ultrasonically inspect 100% of the complete penetration welds.
 - Multi--pass fillet welds and single--pass fillet welds greater than 5/16".

- Provide periodic inspection to verify compliance of the following:

- Material verification of high--strength bolts, nuts, and washers.
- Material verification of structural steel.
- Material verification of weld filler material.
- Anchor bolt size, configuration, and embedment shall be verified prior to placement of concrete.
- Visually inspect all field--welded connection. Visual inspection of welded joints includes periodic examination of fitup.
- Verify stud shear connector spacing and location. Visually inspect welding of stud shear connectors.

- Weld Inspections:

- Weld inspections shall be in accordance with AWS D1.1.
- Review and verify compliance of written welding procedures with AWS requirements.
- Verify that welding procedures are being adhered to during field welding.
- Verify welder qualifications.
- Use all means necessary to determine the quality of welds. The inspector may use gamma ray, magnafuz, trepanning, sonics or any other aid to visual inspection that the Special Inspector may deem necessary to be assured of the adequacy of the welding.
- Keep a systematic record of all welds that include, in addition to other required records, the identification marks of welders, a list of defective welds, and the manner of correcting defects.

- Bolting inspection and testing shall be in accordance with AISC Specifications for Structural Joints Using ASTM A325 or A490 Bolts.

SPECIAL INSPECTIONS PER CHAPTER 17 OF THE KENTUCKY BUILDING CODE

SECTION	ITEM	REQUIRED?		REMARKS
		YES	NO	
1704.2.5	FABRICATORS	___	<u>X</u>	STEEL FABRICATION SPECIAL INSPECTION IS REQUIRED IF THE FABRICATOR IS NOT A.I.S.C. OR AWS CERTIFIED.
1704.6.1	STRUCTURAL OBSERVATION FOR SEISMIC REQUIREMENTS	___	<u>X</u>	SEISMIC DESIGN CATEGORY "B"
1704.6.2	STRUCTURAL OBSERVATION FOR WIND REQUIREMENTS	___	<u>X</u>	Vasd = 93mph
1705.2	STEEL	<u>X</u>	___	PER AISC 360 & TABLE 1705.2.2
1705.3	CONCRETE	<u>X</u>	___	PER TABLE 1705.3
1705.4	MASONRY	<u>X</u>	___	LEVEL B TMS 402/ACI 530/ASCE 5
1705.5	WOOD	___	<u>X</u>	PER SECTION 1705.5
1705.6	SOILS	<u>X</u>	___	PER TABLE 1705.6
1705.7	DRIVEN DEEP FOUNDATIONS	___	<u>X</u>	NONE
1705.8	CAST IN PLACE DEEP FOUNDATIONS	___	<u>X</u>	NONE
1705.9	HELICAL PILE FOUNDATIONS	___	<u>X</u>	NONE
1705.11.1	WIND -- STRUCTURAL WOOD	___	<u>X</u>	Vasd = 93mph
1705.11.2	WIND -- COLD FORMED STEEL FRAMING	___	<u>X</u>	NONE
1705.11.3	WIND -- WIND RESISTING COMPONENTS	___	<u>X</u>	NONE
1705.12.1	SEISMIC -- STRUCTURAL STEEL	___	<u>X</u>	SEISMIC DESIGN CATEGORY "B"
1705.12.2	SEISMIC -- STRUCTURAL WOOD	___	<u>X</u>	PER SECTION 1705.12.2
1705.12.3	SEISMIC -- COLD FORMED STEEL FRAMING	___	<u>X</u>	NONE
1705.12.4	DESIGNATED SEISMIC SYSTEMS	___	<u>X</u>	PER SECTION 1705.12.4
1705.12.5	SEISMIC -- ARCHITECTURAL COMPONENTS INTERIOR/EXTERIOR NON-LOAD BEARING WALLS & VENEER IN STRUCTURES	___	<u>X</u>	SEISMIC DESIGN CATEGORY "B"
1705.12.6	SEISMIC -- MECHANICAL & ELECTRICAL COMPONENTS	___	<u>X</u>	SEISMIC DESIGN CATEGORY "B"
1705.12.7	SEISMIC -- STORAGE RACKS & ACCESS FLOORS	___	<u>X</u>	NONE
1705.14	SPRAYED FIREPROOFING	___	<u>X</u>	1705.14
1705.15	FIREPROOFING	___	<u>X</u>	1705.15
1705.16	E.I.F.S.	___	<u>X</u>	PER SECTION 1705.16
1705.17	FIRE RESISTANT PENETRATIONS & JOINTS	___	<u>X</u>	NONE
1705.18	SMOKE CONTROL	___	<u>X</u>	NONE

WIND DESIGN DATA

ULTIMATE DESIGN WIND SPEED (V_{ult}) 115 MPH
NOMINAL DESIGN WIND SPEED (V_{nom}) 89 MPH
RISK CATEGORY III
WIND EXPOSURE CATEGORY B
INTERNAL PRESSURE COEFFICIENT +/- 0.18

COMPONENTS AND CLADDING [H<30 FT]

	EXPOSURE B (PSF)	EXPOSURE C (PSF)
ROOF 0 TO 7 DEGREES		
INTERIOR ZONE	9.7 --23.8	13.5 --33.3
END ZONE	9.7 --39.9	13.5 --53.8
CORNER ZONE	9.7 --60.1	13.5 --84.1
ROOF >7 TO 27 DEGREES		
INTERIOR ZONE	13.7 --21.8	19.1 --30.5
END ZONE	13.7 --37.9	19.1 --50.0
CORNER ZONE	13.7 --56.0	19.1 --78.4
ROOF >27 TO 45 DEGREES		
INTERIOR ZONE	21.8 --23.8	30.5 --33.3
END ZONE	21.8 --27.8	30.5 --38.9
CORNER ZONE	21.8 --27.8	30.5 --38.9
WALLS		
INTERIOR ZONE	23.8 --25.8	33.3 --36.1
END ZONE	23.8 --31.9	33.3 --44.6

NOTE: NEGATIVE NUMBERS INDICATE A SUCTION/UPLIFT PRESSURE

EARTHQUAKE DESIGN DATA

RISK CATEGORY III
IMPORTANCE FACTOR 1.25
 S_s 0.203
 S_1 0.090
SITE CLASS D
 S_{DS} 0.216
 S_{D1} 0.144
SEISMIC DESIGN CATEGORY B
BASIC SEISMIC--FORCE RESISTING SYSTEM ORDINARY REINFORCED MASONRY WALLS
DESIGN BASE SHEAR 0.135w
SEISMIC RESPONSE COEFFICIENT (C) 0.135
RESPONSE MODIFICATION FACTOR 2
ANALYSIS PROCEDURE ELFP

SNOW DESIGN DATA

GROUND SNOW LOAD (P_g) 15 PSF
MIN. LOW-SLOPED ROOF SNOW LOAD (P_m) 16.5 PSF
FLAT ROOF SNOW LOAD (P_f) 10.5 PSF
IMPORTANCE FACTOR 1.10
THERMAL FACTOR (C_e) 1.0
SNOW EXPOSURE FACTOR (C_s) 1.0

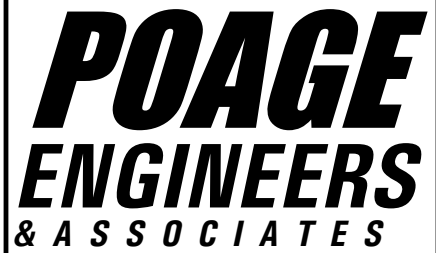
DESIGN LIVE LOADS

ROOF 20 PSF



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CONSTRUCTION DOCUMENTS

POWELL CO. MS WALL REPAIR

POWELL COUNTY SCHOOLS
770 WEST COLLEGE AVE, STANTON, KY 40380



STRUCTURAL

PROJECT 24192

DATE 12.17.2024

REVISIONS

No.	Description	Date

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STRUCTURAL NOTES

S001

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GENERAL NOTES

GENERAL

- Reference to standards or specifications of technical societies, organizations, or associations, or to codes of local/state authorities, means the latest standard, specification, or code adopted by the date shown on the Drawings, unless specifically noted otherwise.
- Material, workmanship, and design shall conform to the referenced Building Code.
- For dimensions not shown in the Structural Drawings, see the Architectural Drawings.
- Contractor responsibilities include, but are not limited to, the following:
 - Contractor is responsible for obtaining all contract documents and latest addenda, as well as, submitting to all subcontractors and suppliers prior to submitting shop drawings.
 - Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission.
 - Compare all contract drawings and report any discrepancies between disciplines, and within a given discipline, to the architect and engineer prior to fabrication and erection.
 - If a conflict exists among the structural drawings, general notes, the strictest requirements, as indicated by the engineer, governs.
 - The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.
 - The completed lateral–force resisting systems (LFRS), including the diaphragms, are required to resist lateral loads and provide stability under gravity loads. During construction, the contractor is responsible for all bracing during construction to maintain the stability and safety of all structural elements until the lateral-load resisting or stability–providing system is completely installed and the structure is completely tied together.
 - Contractor has sole responsibility for job site safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the job site, for the Contractor's means, methods, sequences, techniques, or procedures in performing the work.
- Contractor shall field verify all existing conditions, elevations, and site conditions prior to construction and fabrication. Contractor shall immediately notify Structural Engineer of any existing conditions that are in conflict with the Structural Documents.
- Do not scale drawings or auto–dimension electronic files. notify architect and engineer of any discrepancies in writing prior to fabrication or construction.
- Coordinate all elevations and dimensions, including but not limited to, openings in walls and in roof and floor systems, with the architectural, plumbing, electrical, and mechanical plans.
- Verify all dimensions, elevations, and any other existing conditions. notify the architect and engineer of discrepancies before proceeding with the affected part of the work. During the construction process, it is the contractor's responsibility to maintain the integrity of the existing structure and to protect from damage any portions that remain. The shoring and bracing shown (if any) is a partial and schematic representation. Determine the erection procedure to ensure the stability and safety of the building and its components during construction.
- Unless Noted Otherwise (U.N.O.) details shown are typical for all similar conditions.
- Poage Engineers & Associates, Inc. is not responsible for acts or omission of the contractor, nor failure to perform work in accordance with the contract documents.
- Periodic site observation by Poage Engineers & Associates, Inc. is for determining if the work is proceeding in accordance with the structural contract documents. Structural observations are not intended as quality control (contractor's responsibility), quality assurance (special inspector's responsibility), nor to confirm the quality or quantity of the work.
- The building owner is responsible for periodic maintenance to ensure structural integrity. Maintenance includes, but is not limited to, steel/concrete coatings, sealants, caulked joints, expansion joints, control joints, spalls and cracks in concrete, and cleaning of exposed structural elements.

SUBMITTALS

- Shop Drawings and Submittals
 - 1.1 Reproduction of Structural Drawings for shop drawings is not permitted.
 - 1.2 Electronic drawing files will not be provided to the Contractor.
 - 1.3 Review of shop drawings will be for conformance with the Construction.
- Submittals

Documents regarding arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Construction Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Construction Documents.

 - 2.1 The Structural Quality Assurance Plan and Specifications identify the required submittals. Prior to (or with) the first submittal, Contractor shall submit a list of all required submittals for Engineer's review.
- Deferred Submittals
 - 3.1 Deferred Submittals include those portions of the project that are furnished by the Contractor and designed by someone other than the Engineer of Record and are submitted at the time of the application. Deferred Submittals shall be submitted to the Building Official prior to fabrication and installation.
 - 3.2 Submittal documents for Deferred Submittals:
 - 3.2.1 Shall be included in the Contractor's scope of services and shall be sealed by an Engineer licensed in the project state. Design of Deferred Submittals shall be in accordance with the governing Building Code indicated above.
 - 3.2.2 Shall be submitted to the registered design professional in responsible charge who shall review them and forward them to the Building Official with a notation indicating the deferred submittal documents have been reviewed and that they have been found in general conformance with the design of the building. Deferred submittal items shall not be installed until the design and submittal documents have been approved by the Building Official.
 - 3.3 The following shall be considered Deferred Submittals:
 - Precast Concrete Slab Units
 - Shop Fabricated Trusses

NOTE TO CONTRACTOR:

The contractor shall coordinate the Structural Drawings with the Architectural, Mechanical, and Electrical Drawings and make certain all pipes, sleeves, ducts, inserts, and openings are located and in place before each concrete pour.

The Contractor shall verify all dimensions shown on the Structural Drawings with dimensions shown on the Architectural Drawings. The Contractor shall check and approve, with reasonable promptness, shop drawings and schedules for coordination of details, sizes, fitting tolerances, and dimensions. The Contractor shall stamp or sign these drawings and schedules with his approval and then submit them to the Architect for review.

SPECIAL INSPECTIONS AND TESTING

- Special Inspections and testing are performed in accordance with IBC Chapter 17 and local jurisdiction provisions, by an independent inspection and testing agency. The special inspector must observe and test the work for conformance to the contract documents.
- The special inspector must furnish inspection reports to the building official, the engineer or architect of record, and all other designated individuals. All discrepancies must be brought to the attention of the contractor for correction, then, if not corrected, to the proper design authority and the building official.
- The special inspector must submit a final signed report stating whether the work is, to the best of the inspector's knowledge, in conformance with the contract documents, soils report and applicable workmanship of the building code.
- Statement and schedule of special inspections is part of the contract documents.

FOUNDATION DESIGN

- Foundations were designed using an assumed bearing pressure capacity and should be field verified. Maximum net soil bearing of 2,000 PSF. This verification shall be performed by Licensed Geotechnical Engineer. Contractor shall review the report and report and adhere to all recommendations within, including cut, subgrade preparation, fill, etc.
- All soils work, including backfill of utility trenches and the verification of bearing capacity, must be under the direction of a qualified geotechnical engineer. Proximity of utility trenches to building foundation system must be as approved by the geotechnical engineer to ensure integrity of the bearing soils.
- All foundations bear on undisturbed earth or engineered fill at elevations shown on plans and details. Coordinate final top of footing elevations with the architectural elevations, map drawings and civil grading plans prior to placement. Foundation steps indicated are approximate, unless noted otherwise, and must be field coordinated. The bottom of exterior foundation elevations must be below the frost depth elevation of 24" minimum as measured from the exterior finished grade.
- Bear floor slabs on 6" minimum drainage course (compacted stone) unless noted otherwise in the geotechnical report or drawings. Place the vapor retarder between the drainage course and the slab. Vapor retarder is ASTM E1745, Class B, 15 Mil. unless noted otherwise. Place, protect and repair per ASTM E1643 and manufacturer's instructions.
- Do not install foundation concrete until all foundation work has been coordinated with underground utilities. Notify the engineer of all conflicts between foundations and utilities.
- all foundations, or portions thereof below grade, may be earth formed by neat excavations. Do not place foundations, slabs, or other concrete on frozen subgrade or in standing water.
- Center all foundations on walls and/or columns, unless noted otherwise.
- Determine the extent of construction dewatering required for the excavations. Submit the proposed construction dewatering plan to the geotechnical engineer for review prior to excavation.
- Shallow rock may be encountered during footing excavation. If so over excavate a minimum depth as recommended in the geotechnical report.
- Any removal of unsuitable soils shall be performed as described in the geotechnical report.

GRADE SUPPORTED FLOOR SLABS

- The following features are required as part of grade support slab construction:
 - Keep the crushed stone moist, but not wet, immediately prior to slab concrete placement to minimize curling of the slab due to differential curing conditions between the top and bottom of the slab.
 - The Special Inspector shall review the actual subgrade conditions prior to slab construction and to make recommendations for any unsuitable conditions encountered.
 - Slab subgrade conditions are also considered earthwork areas; thus, the recommendations contained in the Earthwork section of the report apply.

SHALLOW FOUNDATIONS ON SOIL

- Any soils can lose strength if they become wet, so the foundation sub grades must be protected from exposure to water. Foundation construction the following procedures.
 - For soils that will remain exposed overnight or for an extended period of time, place a "lean" concrete mud–mat over the bearing areas. The concrete should be at least 4 inches thick. Flowable fill concrete or low–strength concrete is suitable for this cover, as conditions allow.
 - Disturbed soil must be removed prior to foundation concrete placement.
 - Foundation bearing conditions must be benched level.
 - Areas loosened by excavation operations must be re–compacted prior to reinforcing steel placement.
 - Loose soil, debris, and excess surface water must be removed from the bearing surface prior to concrete placement.
 - The Special Inspector shall observe all foundation excavations and provide recommendations for treatment of any unsuitable conditions encountered.
 - The bearing conditions of foundation soils (stiff or better residual soil) shall be checked by means of portable dynamic cone penetration (DCP) testing at the direction of the special inspector.

CONCRETE

- All concrete shall conform and be designed, mixed, placed, tested, and cured in accordance with the provisions of the ACI Manual of Concrete Practice, (current edition). Special care shall be taken in curing floors, stairs, walls, and other exposed surfaces in accordance with the specifications.
- All concrete shall develop 4,000 PSI compressive strength in 28 days.
 - W/C ratio, 0.45 for interior slabs and 0.46 for other concrete.
- Flyash substitution is only permitted in slabs with a 15% max. content. Flyash substitution is NOT permitted in foundations.
- Concrete structures and slabs exposed to freeze/thaw or subject to hydraulic pressure: air content 3% to 5%.
- Other concrete, air content 2% to 4%
 - Slump limits (without a water reducer)
 - Ramps & sloping surfaces: no more than 3"
 - Reinforced foundations not less than 1" not more than 5"
 - Other concrete not less than 1" not more than 5"
- Dropping the concrete in excess of 10 feet, depositing in a large quantity at any point and running or working it along the forms, or any method tending to cause segregation or separation of the aggregates will not be permitted.
- Concrete must have allowable unit shrinkage of 0.045% at 28 days (see ASTM C157).

REINFORCEMENT STEEL

- Reinforcement steel shall have a minimum yield strength of 60,000 PSI and conform with material specifications for reinforcing bars, ASTM A615 thru A617; see manual of standard practice, Concrete Reinforcing Steel Institute.
- Welded wire fabric shall conform to ASTM A185.
- All rebars shall be securely tied and held in place with a minimum concrete protection cover to all steel as follows:

Walls, Columns, Beams, & Pilasters	1½"
Slabs	¾"
Footings	3"
- Reinforcing steel bends shall be made as per diagram, and/or in accordance with A.C.I. Code.
- Lap all splices as specifically called for, but at least 36 bar diameters for bars less than or equal to #6, and 48 bar diameters, for bars greater than #6, (always 12" minimum) unless noted otherwise. Lap all splices in masonry reinforcement a minimum of 48 bar diameters.
- Install corner bars at all footings and wall intersections to match horizontal reinforcing size and spacing, at intersections of continuous spread footings, extend all bars to far side of intersecting footing.
- Install and secure reinforcement to prevent displacement during concrete placement. Provide the following concrete cover for reinforcing, unless specifically noted otherwise:
 - Cast against earth: 3"
 - Exposed to earth/weather: #6 thru #18: 2"
 - Exposed to earth/weather: #5 & smaller: 1½"
- Install dowels to match reinforcement size and spacing indicated, unless noted otherwise.
- Cast foundation walls, grade beams and footings in alternate panels not to exceed 60'–0" in length. Install shear keys at each construction joint and located at 1/3 points of spans.
- Do not use horizontal construction joints in concrete pours unless shown on the drawings. The engineer must approve all deviations or additional joints in writing.
- Cast slabs and beams/joists monolithically unless noted otherwise.
- Reference architectural and mechanical drawings for locations of openings and sleeves in concrete walls and supported floors. Spread reinforcement at openings and sleeves unless otherwise indicated. Do not cut reinforcement.
- Slope concrete slabs to floor drains shown on mechanical, plumbing, civil and architectural drawings.
- Bond new concrete to hardened concrete with a structural adhesive bonding agent per ASTM C1059. Install per the manufacturer's instructions.
- No holes or openings through foundation walls and/or footings without engineer's approval.
- Do not embed aluminum in concrete.

CONCRETE MASONRY

- CMU Minimum Compressive Strength, f'm = 1,500 psi.
- Mortar: Walls below grade: Type M
Bearing Walls: Type M or S
- Coarse Grout: 3,000 psi. min. compressive strength conforming to ASTM C476.
 - 3.1 Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade.
 - 3.2 Masonry webs on each side of grouted cells shall be fully mortared.
- Horizontal Joint Reinforcement: Two (2) No. 9 gage longitudinal wires at 16" vertically, U.N.O. Provide accessories for corners, intersections, etc.
- Provide open bottom beam block units with 3" deep minimum web openings at horizontal reinforcement locations. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.
- CMU has been designed assuming "running bond" placement. Do no use "stack bond" unless approved by Structural Engineer.
- Submit written construction procedures prior to the start of masonry construction.
- No chases, risers, conduits, or toothing of masonry shall occur in masonry walls within 18 inches of beam bearing centerline.
- Lap splices in reinforcing to be 48 bar diameters.
- In addition to spacing indicated on plans, provide vertical bars at all corners, ends, jams, intersections and both sides of control joints.
- Extend all vertical reinforcement thru or into bond beams.
- Provide dowels from supporting member (footing, beam, or slab) for all reinforced walls same size, location and spacing as wall reinforcing.
- Vertical reinforcement shall be centered in cells of masonry unit, unless otherwise noted.
- Bar positioners shall be used to hold vertical and bond beam reinforcement in proper alignment.
- Vertical bars shall be held in position at top and bottom and at intervals not exceeding 200 bars diameters or 8 feet
- Grouting of masonry lintels over openings shall be accomplished in one continuous operation.
- Grouting shall be stopped 1½" below the top of a course to form a key at the pour joint.
- Grout all cells of concrete masonry units below grade or slab.
- Provide clean out holes at least 3 inches in least dimension for grout pours over 5 feet in height.
 - At structurally reinforced walls provide clean out holes at each structural vertical reinforcing bar.
 - Clean out closures shall be braced to resist grout pressures
- See architectural drawings for locations of vertical control joints.
- At vertical control joints, bond beam reinforcement and joint reinforcement shall be discontinuous. Provide two ¾" diameter smooth dowels by 1'–4" across each control joint. Grease one end.
- Special inspections are required for the masonry construction on this project. The inspections include but are not limited to continuous inspections during the grouting process. Refer to Chapter 17 of the Kentucky Building Code, current edition, for specific requirements.

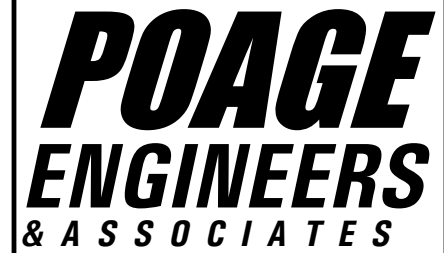
STRUCTURAL STEEL

- Steel Shapes
 - 1.1 W–Shapes: ASTM A992 (Grade 50)
 - 1.2 Angles, Channels, Plates, UNO: ASTM A36
 - 1.3 Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B
 - 1.4 Structural steel exposed to weather shall be galvanized.
- Anchor Rods, Bolts, and Studs
 - 2.1 Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washer and heavy hex nut.
 - 2.2 All bolts for structural steel joint fasteners shall be ¾"/4"DIA. high strength structural bolts, ASTM A325, Torque Control (Tension Set), unless otherwise noted.
- Post–installed Anchors: The procedure listed below are the design basis for this project. Installation of expansion anchors shall be in accordance with the ICC ES report and manufacturer's instructions for the particular anchor.
 - 3.1 Expansion Anchors: Hilti Kwik Bolt TZ2 (ICC–ES ESR–4266), Simpson Strong–Tie Bolt 2 (ICC–ES ESR–3037), or Dewart Power–Stud+ SD2 (ICC_ES ESR–2502). Minimum embedment = 6 times anchor diameter, UNO.
 - 3.2 Adhesive Anchors
 - 3.2.1 All–thread steel anchor conforming to ASTM A307 Grade A or ASTM A36 or ASTM F1554 Grade A36, zinc plated in accordance with ASTM B633.
 - 3.2.2 Adhesive conforming to Hilti HIT–RE–500 V3 (ICC–ES ESR–3814) or Hilti HIT–HY200 V3 (ICC–ES ESR–4868 (conc.) ESR–4878 (grouted cmu), Simpson SET–3G Epoxy (ICC–ES ESR–4057 (conc. & ice) ESR–4844 (grouted cmu), or Dewart 110+ Epoxy Adhesive (ICC–ES ESR–3298), or Dewart AC100+ Gold Adhesive (ICC–ES ESR–2582 (conc.) Minimum embedment = 6 times anchor diameter, UNO.
 - 3.2.3 For hollow concrete masonry, use screen tube approved by manufacturer and an adhesive conforming to Hilti HY–270 (ICC–ES ESR–4143) or Simpson Strong–Tie SET–3G (ICC–ES ESR–4844).
 - 3.3 Screw Anchors: Hilti KH–EZ (ICC–ES ESR–3027 (conc.) ESR–3056 (grouted cmu) or Simpson Titan–HD (ICC–ES ESR–2713 (conc.) ICC–ES ESR–1056 (grouted cmu) or Dewart Screw–Bolt+ (ICC–ES ESR–3889 (conc.) ICC–ES ESR–4042 (grouted cmu). Minimum Embedment = 6 times anchor diameter, UNO.
 - 3.4 Substitutions will only be considered for products that have a code report recognizing the product for the appropriate application. The substitution request shall be accompanied by calculations that demonstrate the substituted product is capable of achieving the equivalent performance values of the design–basis product.
- Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" dated July 7, 2016 and the AISC "Code of Standard Practice for Steel Buildings and Bridges" dated June 15, 2016.
- Connections shall be detailed based on the design information provided in the Structural Documents
 - 5.1 Standard Shear Connections: Details as bolted or welded double–angle, sible–plate, single–angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction", Thirteenth Edition.
 - 5.1.1 Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by the Engineer.
 - 5.2 Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform Load (LRFD)" tabulated in the "Manual of Steel Construction", Thirteenth Edition.
 - 5.3 Steel connections not specifically detailed in the Structural Drawings shall be designed by the Contractor. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by an Engineer licensed in the project state.
- Shop Drawings: Submittal shall adequately depict all structural members and connections. Bolted connections shall connect a minimum of one–half (1/2) the depth of the member. Welded connections shall use continuous 1/4" fillet welds unless noted otherwise in contract documents. Show all field welds required on erection drawings.
- All structural steel shall be fabricated and erected in accordance with the latest OSHA regulations regarding steel erection.
- Hot rolled steel bars, plates, shapes and sheet piling must be new steel conforming to ASTM A6. Fabricate and install steel in accordance with AISC 303 "Code of Standard Practice for Steel Buildings and Bridges" and AISC 360 "Specification for Structural Steel Buildings".
- Center columns and beams on grid lines unless noted otherwise in the contract documents.
- Cuts indicated on the drawings, or as required for other trades, must be made in the shop and shown on the shop drawings. Field performed holes or cuts are not permitted without engineer approval.
- Install non–metallic shrinkage–resistant gromt below base plates, in accordance with ASTM C1107 and a minimum strength of 6,000 PSI.
- Fabricate structural steel with one coat of shop primer except the following members: galvanized surfaces, slip–critical surfaces, surfaces to be field welded, surfaces to receive fire proofing, or unless noted otherwise. Coordinate areas to be fireproofed with architectural drawings prior to fabrication.
- Galvanized structural steel: ASTM A123 or ASTM A153. Galvanize after fabrication. Galvanize oil exterior exposed steel, unless noted otherwise. Repair damaged galvanized coatings in accordance with ASTM A780.
- Unless noted otherwise, the top of all steel columns are fabricated with a steel cap plate. Minimum cap plate dimensions match column width & depth, and minimum thickness of cap plate equals column web thickness (1/2" minimum).
- Coordinate the exact location and size of all openings for mechanical equipment with the mechanical contractor prior to fabrication.
- Reference the architectural, civil, mechanical, plumbing and electrical drawings for additional steel (if any) not indicated on the structural drawings.



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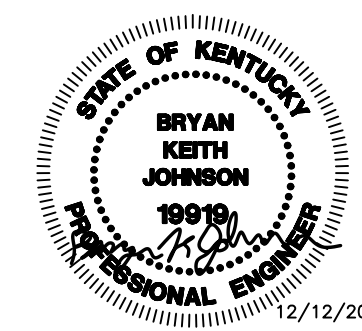


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CONSTRUCTION DOCUMENTS

POWELL CO. MS WALL REPAIR

POWELL COUNTY SCHOOLS
1770 WEST COLLEGE AVE, STANTON, KY 40380



STRUCTURAL

PROJECT	24192	
DATE	12.17.2024	
REVISIONS		
No.	Description	Date

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STRUCTURAL NOTES

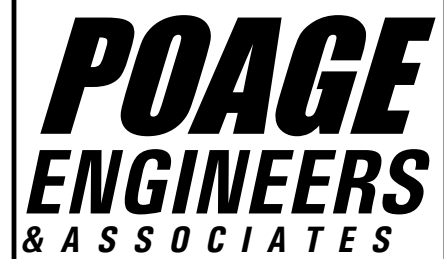
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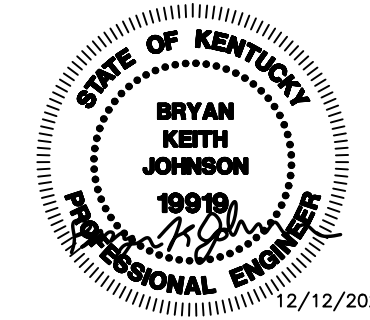


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CONSTRUCTION DOCUMENTS

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770 WEST COLLEGE AVE, STANTON, KY 40380



STRUCTURAL

PROJECT 24192
DATE 12.17.2024

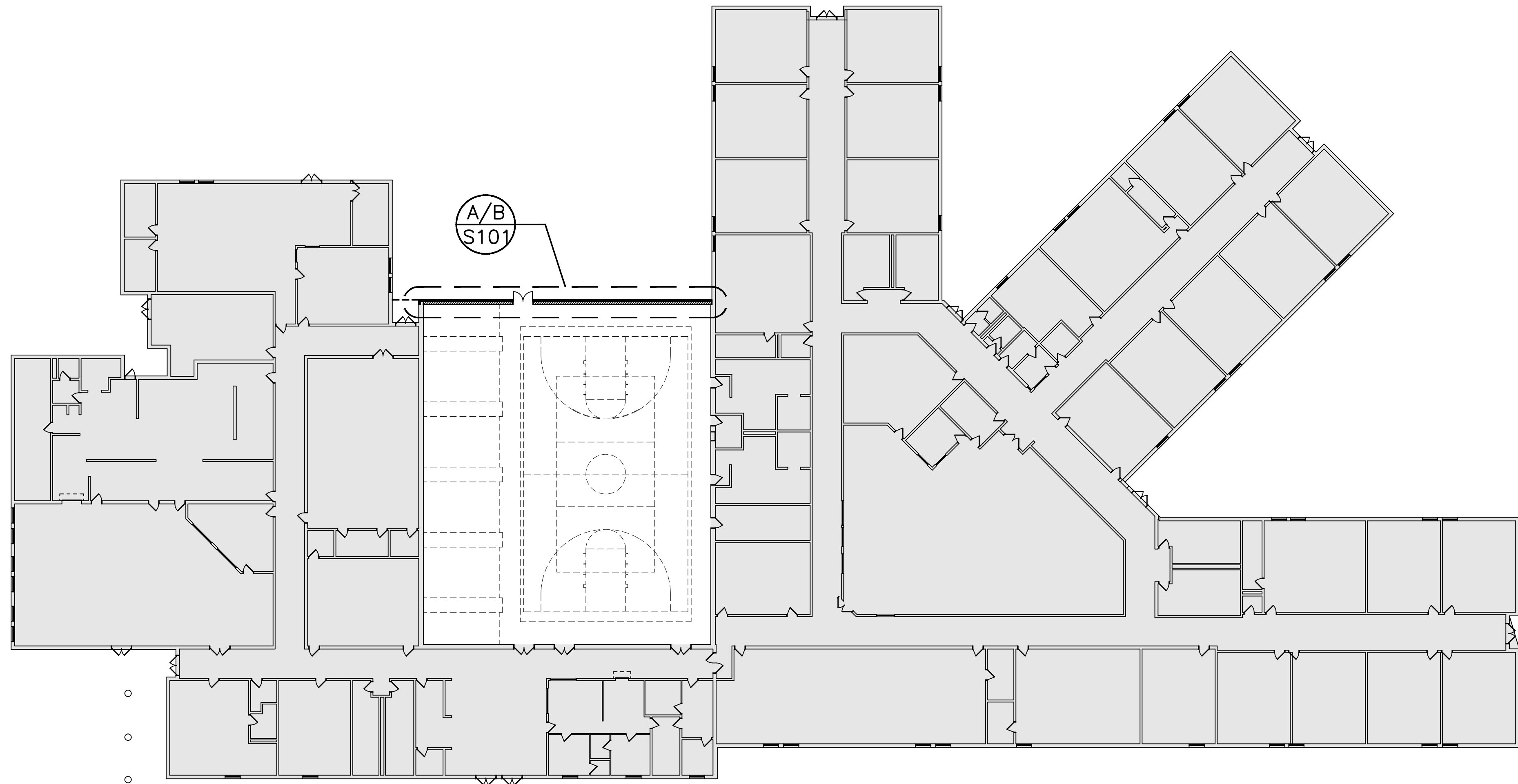
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FOUNDATION PLAN

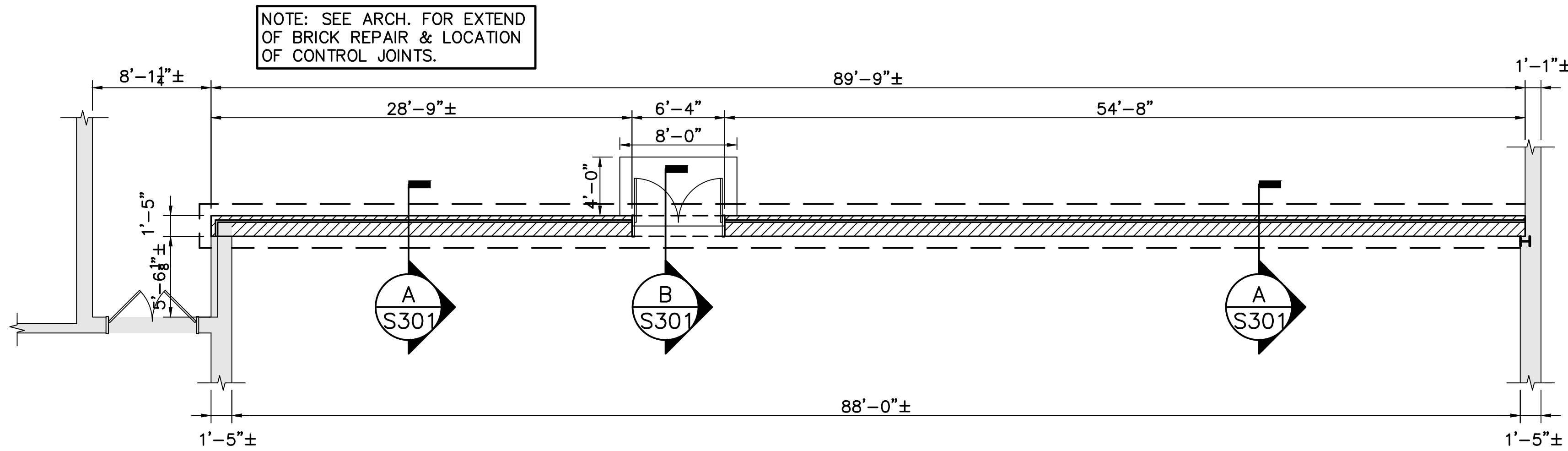
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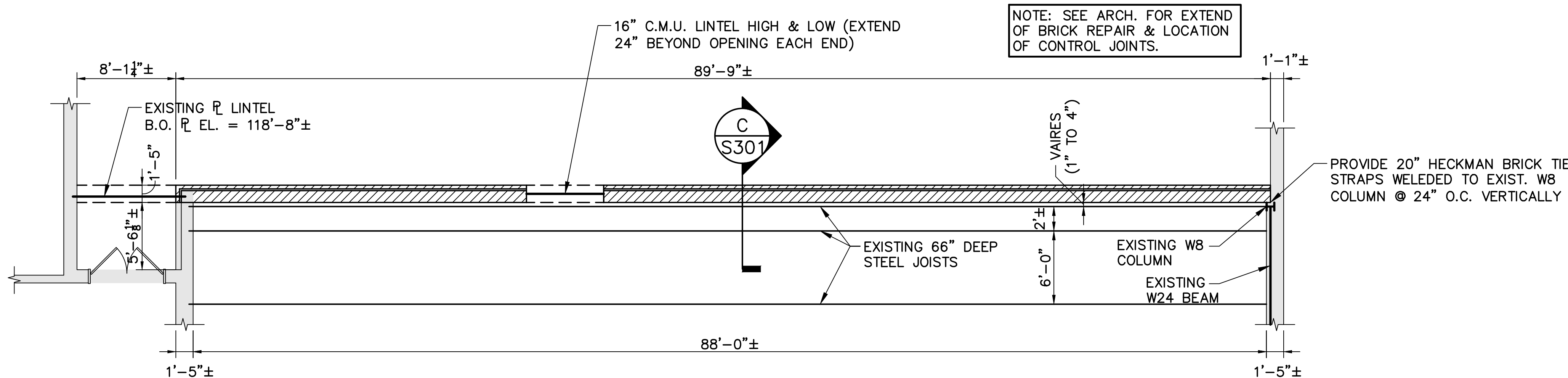
KEY PLAN

NOT TO SCALE



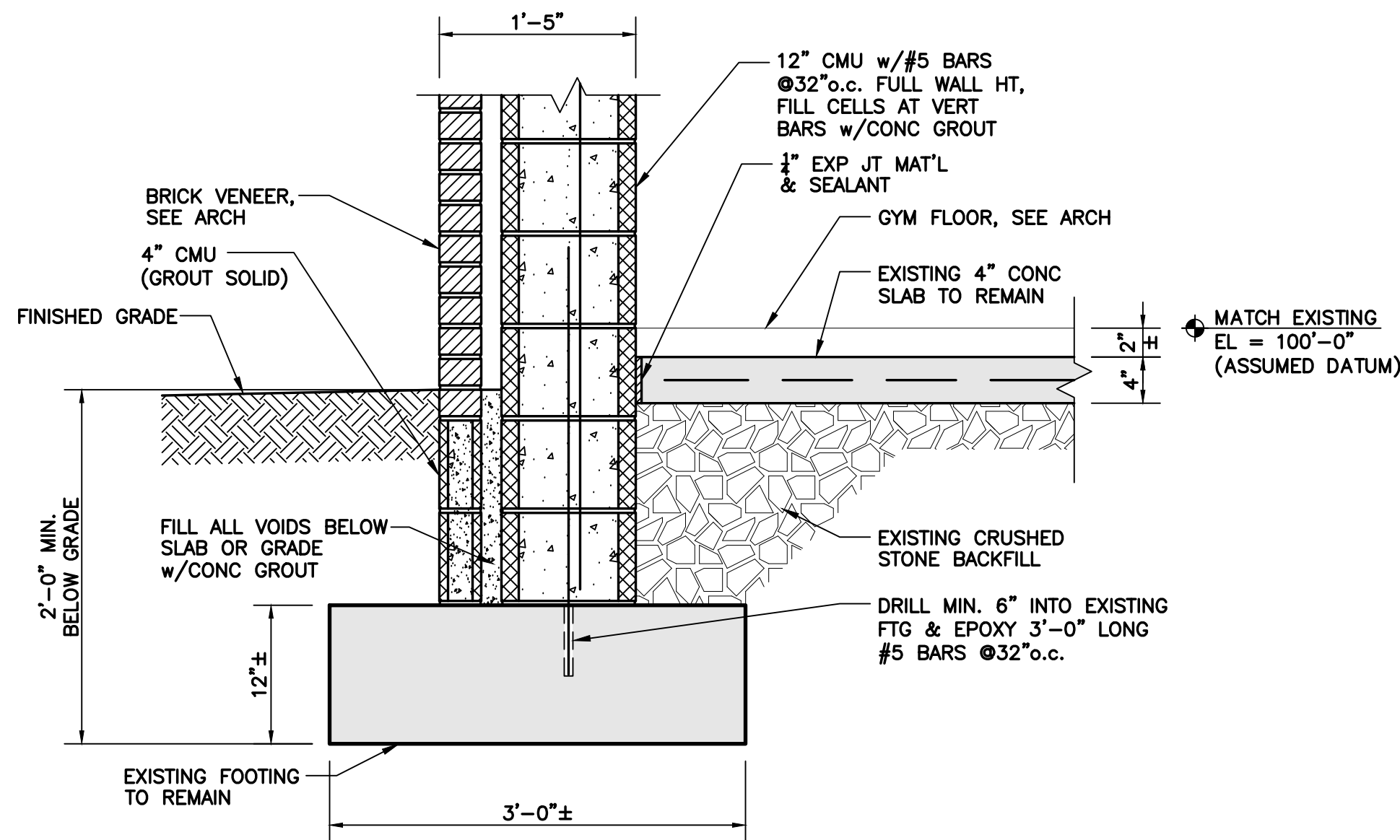
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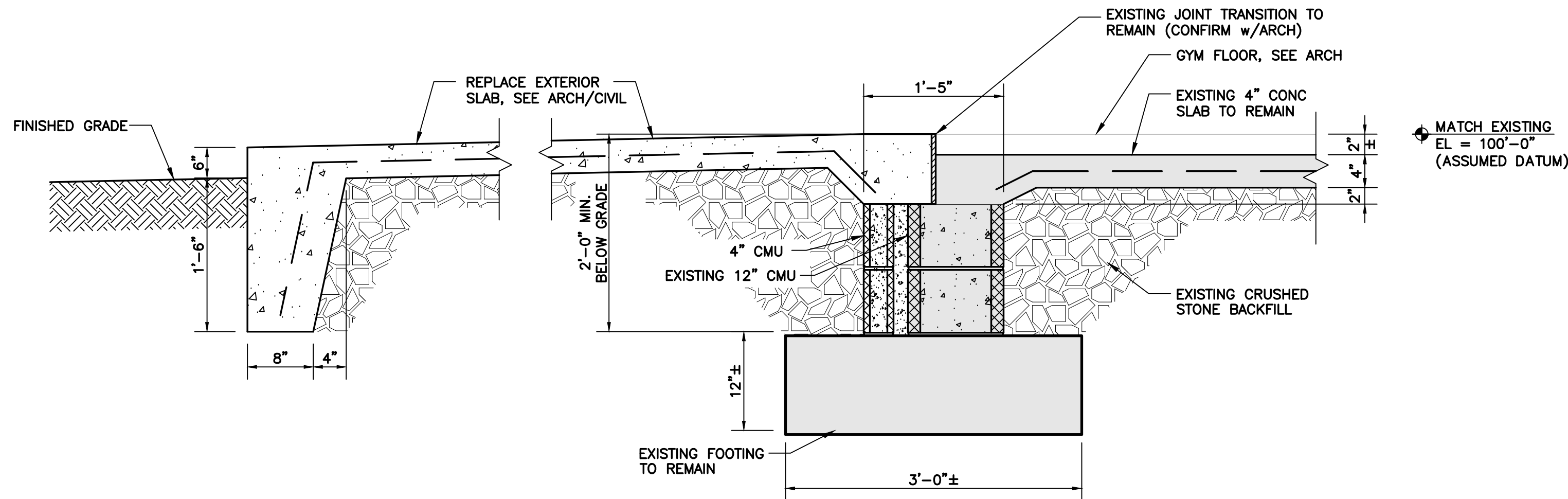


ROOF FRAMING PLAN

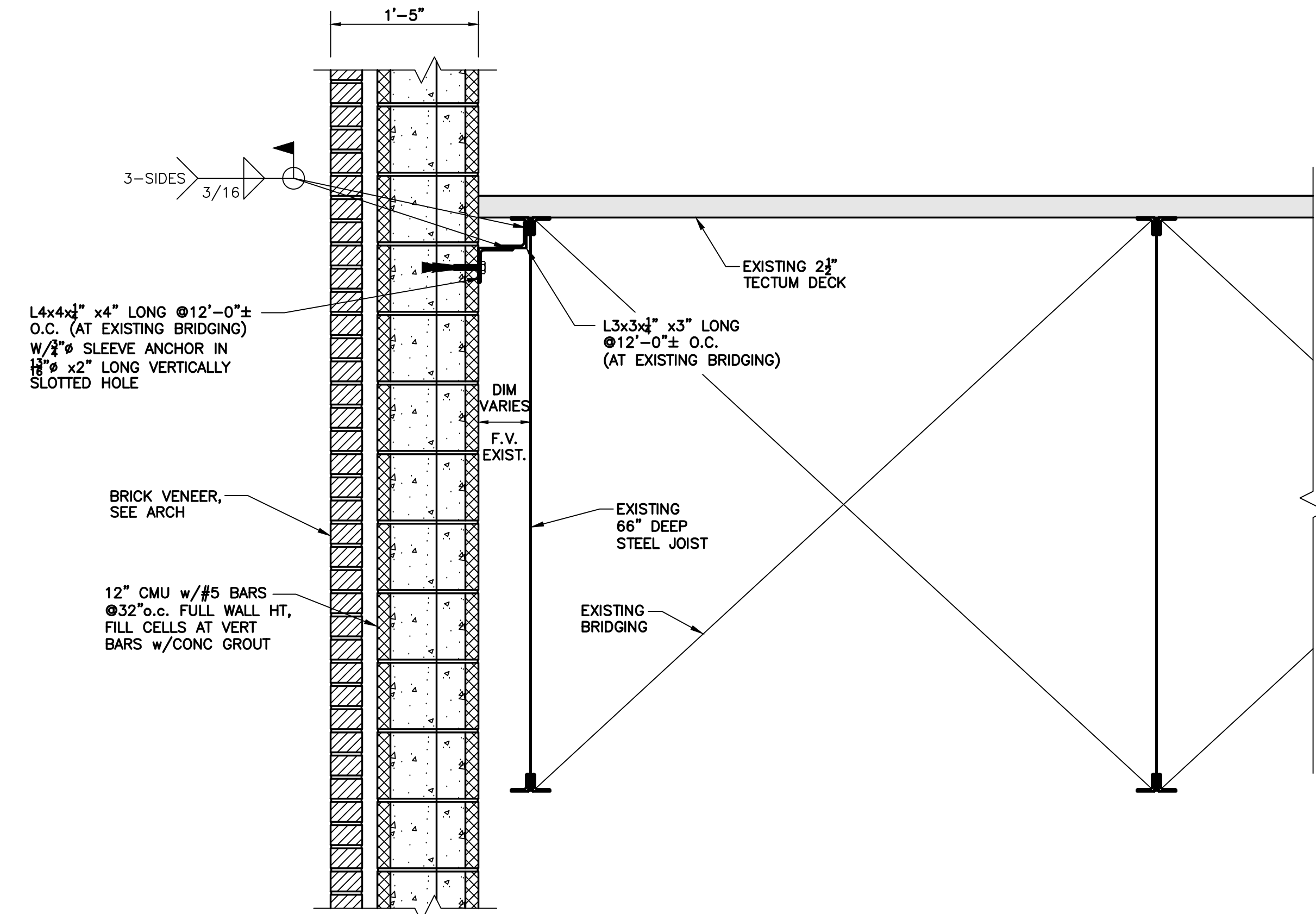
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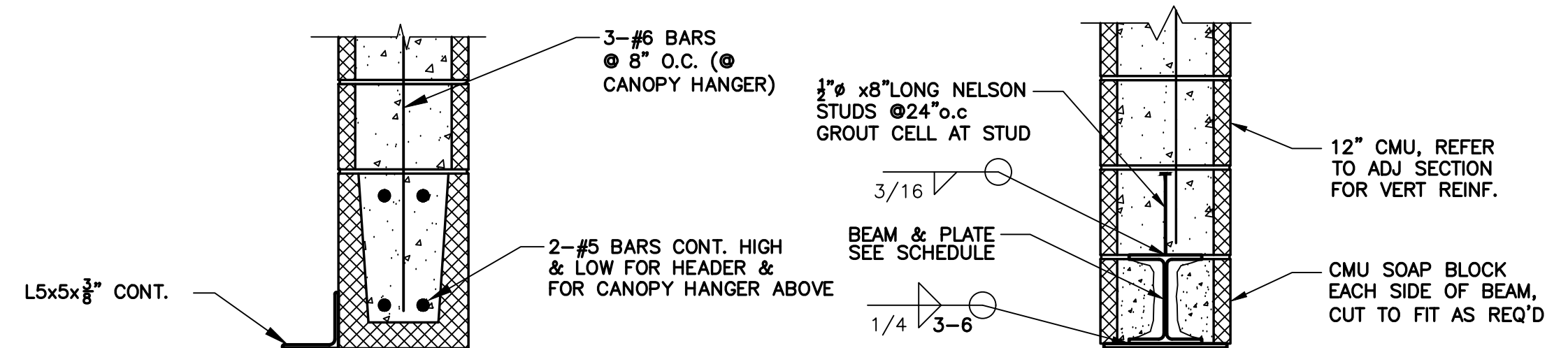
SECTION A
S301



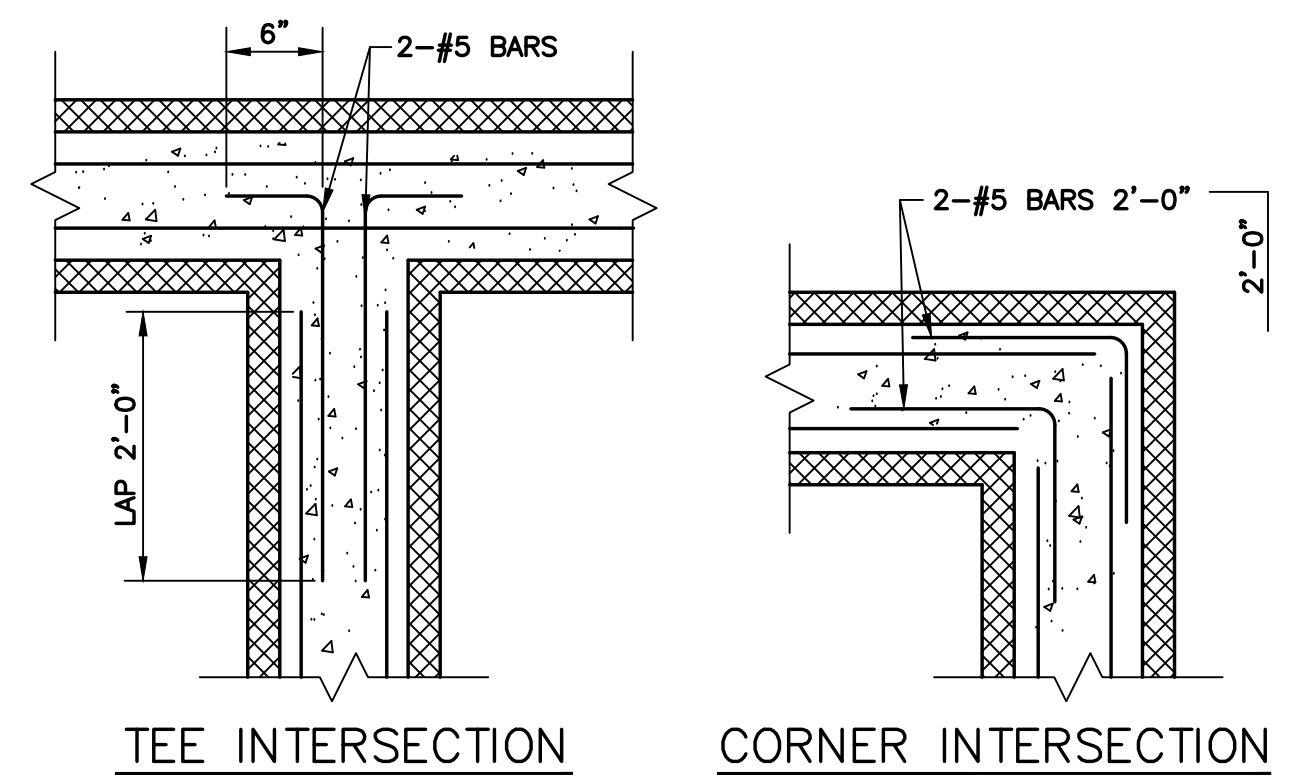
SECTION B
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SECTION C
S301



TYPICAL LINTEL BEAMS



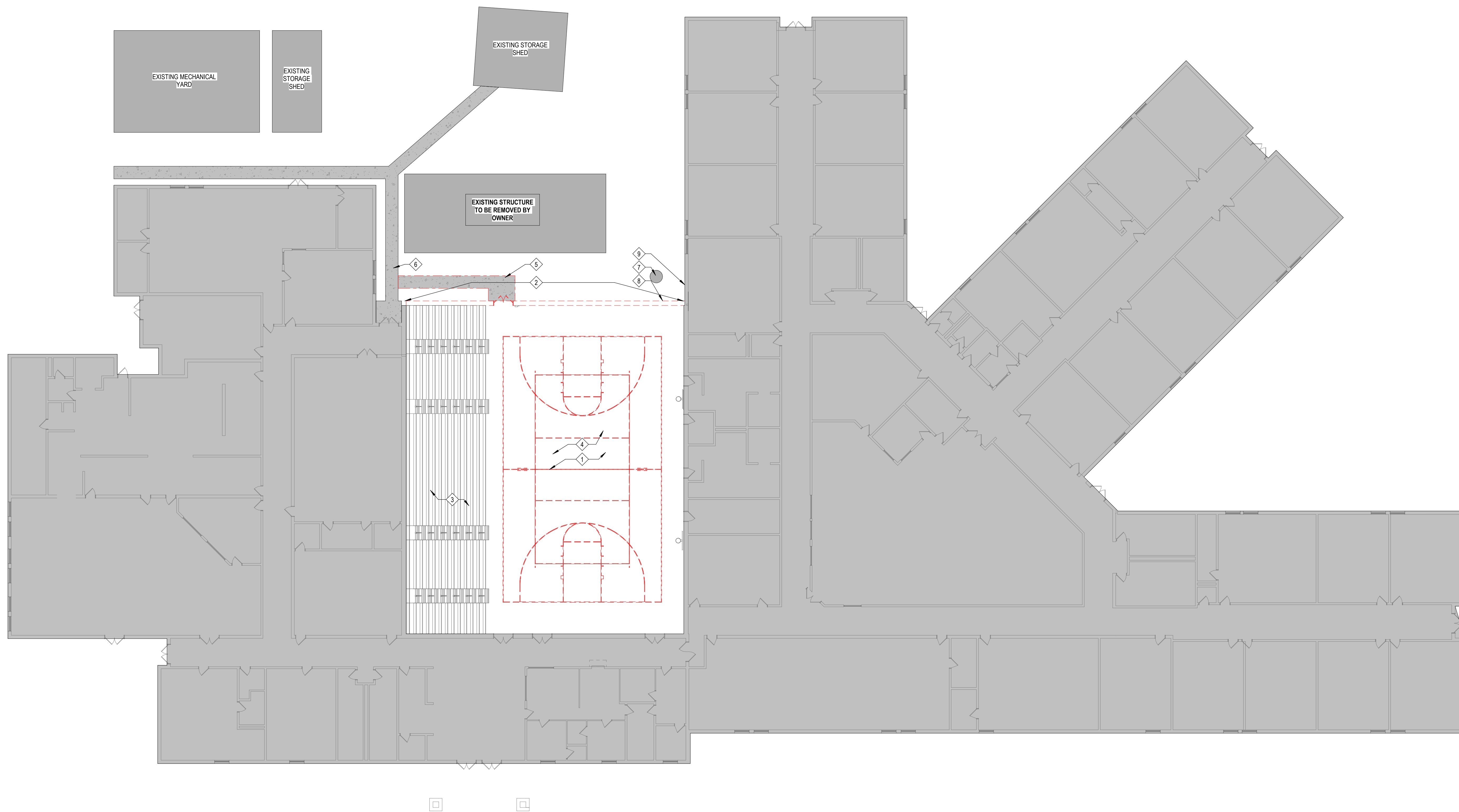
TYPICAL CMU BOND BEAM REINFORCEMENT LAP DETAILS

LINTEL SCHEDULE: NEW WALLS				
OPENING	12" BLOCK		12" BLOCK & 4" BRICK	
	SIZE	SHAPE	SIZE	SHAPE
0 TO 4'-0"	16" BOND BM W/2-#5 BARS		L3x3x1/4" BOND BM W/2-#5 BARS	
4'-1" TO 6'-0"	16" BOND BM W/2-#5 BARS		L4x3x1/4" BOND BM W/2-#5 BARS	
6'-1" TO 8'-0"	WBx15 W/ 8x11"		WBx21 W/ 8x15 1/2"	
8'-1" TO 10'-0"	WBx18 W/ 8x11"		WBx24 W/ 8x15 1/2"	
10'-1" TO 12'-0"	WBx21 W/ 8x11"		WBx24 W/ 8x15 1/2"	
12'-1" TO 14'-0"	WBx24 W/ 8x11"		WBx28 W/ 8x15 1/2"	
14'-1" TO 16'-0"	WBx28 W/ 8x11"		WBx31 W/ 8x15 1/2"	

- NOTES:**
- THIS LINTEL SCHEDULE IS FOR ALL MASONRY OPENINGS SHOWN ON THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND PROVIDE ALL NECESSARY STEEL LINTELS AND MISC. FRAMING REQUIRED TO COMPLETE THE PROJECT WHETHER SHOWN ON THIS LINTEL SCHEDULE OR NOT.
 - AT EXTERIOR WALL CONDITIONS, ONLY THE STEEL PLATE SHALL BE GALVANIZED, PROVIDED THE STEEL BEAM IS NOT EXPOSED.
 - IF THE LINTEL OCCURS AT A CORNER, THE STEEL PLATE SHALL BE EXTENDED TO A MITERED CORNER.
 - ALL LINTEL BEAMS OVER MASONRY OPENINGS GREATER THAN 6'-0" SHALL HAVE NELSON STUDS. REFER TO TYPICAL LINTEL BEAM DETAIL.
 - ALL LINTEL BEAMS SPANNING GREATER THAN 8'-0" SHALL HAVE BEARING PLATES AND THE BOTTOM PLATE SHALL EXTEND FULL BEAM LENGTH. REFER TO TYPICAL BEAM BEARING DETAIL.
 - PLATE WIDTH MAY VARY FROM STANDARD SIZES SHOWN. CONTRACTOR SHALL VERIFY SIZE SO THAT WIDTH=(WALL THICKNESS - 1").
 - IN LOCATIONS WHERE BOND BEAMS WILL ATTACH TO STEEL COLUMNS, THE CONTRACTOR SHALL SUBSTITUTE A STEEL BEAM AND PLATE. REFER TO THE SCHEDULE FOR THE NEXT AVAILABLE SIZE.
 - THIS SCHEDULE APPLIES FOR MASONRY OPENINGS REQUIRED BY SOFFITS OR RECESSED DOOR OPENINGS SHOWN ON ARCHITECTURAL DRAWINGS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.
 - ALL LINTELS SHALL BEAR A MINIMUM OF 8" ON CMU. BEARING ON BRICK VENEER DOES NOT COUNT TOWARDS THE MINIMUM BEARING REQUIREMENTS.
 - REFER TO ARCH. DEMO PLANS FOR NEW OPENINGS IN EXISTING WALLS.

No.	Description	Date

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A DEMO PLAN
1/16" = 1'-0"

**DEMOLITION KEYNOTES**

- 1 REMOVE EXISTING GYM FLOOR IN ITS ENTIRETY IN PREPERATION FOR NEW FLOOR. CONTRACTOR TO VERIFY EXISTING GYM FLOOR RECESS.
- 2 DEMO EXISTING WALL IN ITS ENTIRETY. REMOVE ANY WALL MOUNTED EQUIPMENT & DELIVER TO OWNER.
- 3 EXISTING BLEACHERS TO REMAIN
- 4 REMOVE ALL EXISTING WALL MOUNTED EQUIPMENT & DELIVER TO OWNER.
- 5 DEMO EXISTING SIDEWALK AS REQUIRED FOR NEW WORK
- 6 EXISTING SIDE WALK TO REMAIN. MAINTAIN EGRESS AT THIS LOCATION FOR EMERGENCY EGRESS
- 7 EXISTING MANHOLE COVER
- 8 EXISTING SANITARY CLEANOUT
- 9 EXISTING GAS LINE



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CONSTRUCTION DOCUMENTS

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770 WEST COLLEGE AVENUE, STANTON KY 40380

ARCHITECTURAL

PROJECT	2024-52
DATE	12.17.24

REVISIONS		
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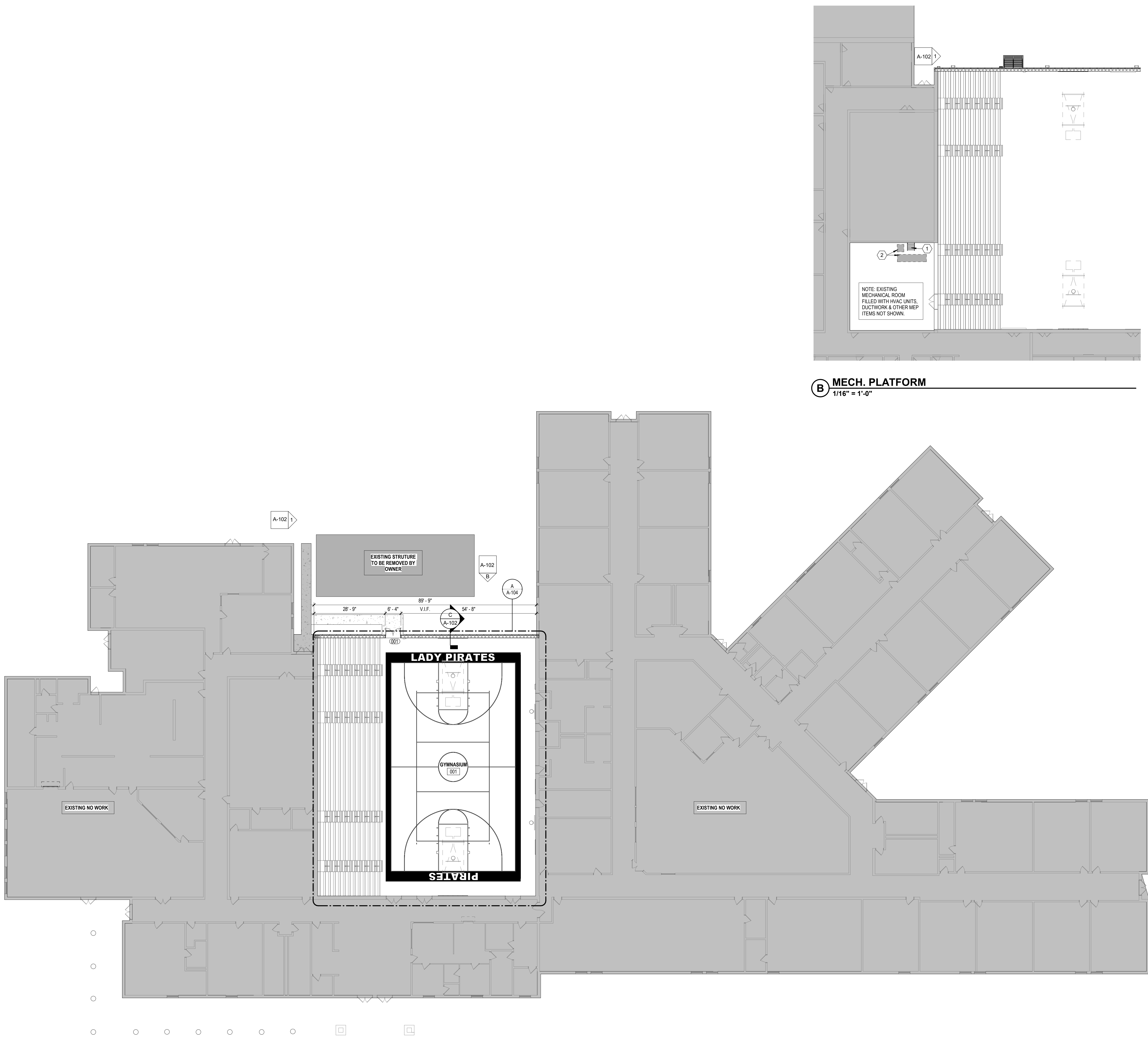
DEMO PLAN

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A NEW WORK PLAN
1/16" = 1'-0"

B MECH. PLATFORM
1/16" = 1'-0"

- PLAN KEYNOTES**
- 1 NEW SHIPS LADDER - REFER TO DETAILS. PAINT TOP RISER * SAFETY YELLOW* COORDINATE LOCATION WITH EXISTING ROOF HATCH
 - 2 EXISTING HVAC UNIT



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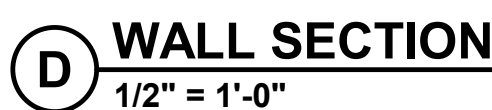
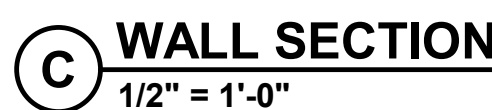
No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSMIT THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

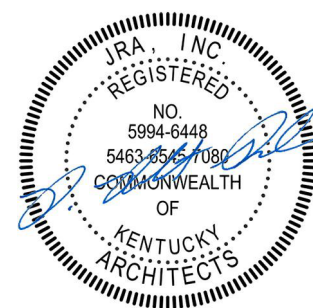
**FLOOR PLAN -
NEW WORK**

A-101

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- ROOF KEYNOTES**
- | | |
|---|--|
| 1 | EXISTING ROOF HATCH TO REMAIN. |
| 2 | ROOF HATCH SAFETY RAILING, SEE SPEC. VERIFY EXISTING ROOF HATCH DIMENSIONS |
| 3 | OWNERS ROOFING CONTRACTOR TO DEMO ROOF BACK. COORDINATE WITH GC. |



RESERVED FOR AHJ STAMP

CONSTRUCTION DOCUMENTS

POWELL CO. MS WALL REPAIR

POWER COUNTY SCHOOLS
1770 WEST COLLEGE AVENUE, STANTON KY 40380

ARCHITECTURAL

PROJECT	2024-52	
DATE	12.17.24	
REVISIONS		
No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE, OR IN PART, FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE

ROOF PLAN AND ELEVATION

A-102

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Provide door hardware as indicated below in the hardware sets. Submittals and installation requirements per Section 087100 of most current AIA MasterSpec. Allowable manufacturers are as follows:

Hinges	Hager, Ives, Select.
Key Cylinders	Yale.
Exit Devices	VonDuprin 99 series.
Door Contacts	George Risk Industries.
Closers	LCN 4040XP series.
Thresholds & Seals	Legacy, National Guard Products, Pemko

Non-electrified Items

- | | | | | |
|-----|---------------------------|----------------|-----|-----|
| (2) | Continuous Hinge | SL24HD | 628 | SEI |
| (1) | Key Removable Mullion | KR-4954 x 154 | 689 | VO |
| (1) | Panic Device, Rim, 01, LD | LD99EO | 630 | VO |
| (1) | Panic Device, Rim, 03, LD | LD99NL x 697NL | 630 | VO |
| (2) | Rim Cylinder | | 626 | YA |

Note: Match keyway and key to building master key as directed by Owner

- | | | | |
|---------------------------|-------------|-----|-----|
| (2) Closer, w/Spring Stop | 4041 SCUSH | 689 | LCN |
| (2) Closer Spacer | 51875-52250 | | LEG |
- Note 1: Do not cut top jamb seal for closer arm bracket. Lower the closer on the door and mount closer shoe to jamb seal. Use spacer for 5th closer screw.

Note 1: Do not cut top jamb seal for closer arm bracket. Lower the closer on the door and mount closer shoe to jamb seal. Use spacer for 5th closer screw.

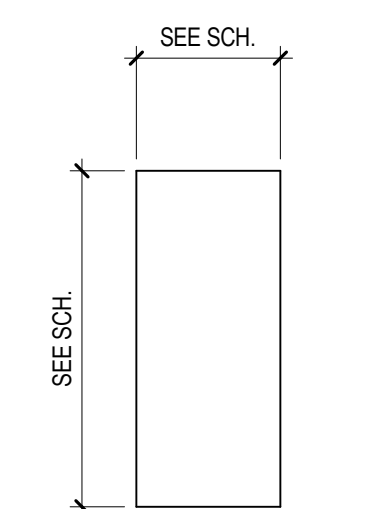
- | | | | | |
|-----|----------------------------------|---------------------------|-------|----|
| (2) | Kick Plate | KO050 8 x 2LDW x CS x B4E | 630 | TR |
| (1) | Cat H Adhesive Mullion Seal/Mute | MS-SA/75 | Black | DH |
| (1) | Cat H Jamb Seal Set | 5924 | 628 | LE |
| (1) | Panic Threshold | 356MA x RCE | 628 | LE |

Note 1: 3/8" door undercut required for proper

- Electrified Items**
- (2) Door Contact, 3/4", Pop-in, DPDT 195-12 White GRI
- (1) Lot: Control electronics, low voltage power, low voltage cabling and terminations, and programming: see Electrical Specifications.

System Function:
Free egress. Ingress by key. Doors are monitored for door position

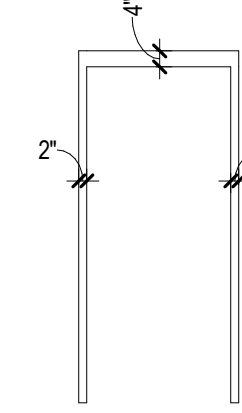
DOOR AND FRAME SCHEDULE														
NO.	PAIR	DOORS					FRAMES					REMARKS		
		SIZE				TYPE	GLAZ.	MAT'L.	DETAILS		RATING (MIN.)			
		LEAF 1 WIDTH	LEAF 2 WIDTH	HEIGHT	THICK.				JAMB	HEAD				
001	PR	3'-0"	3'-0"	7'-0"	1 3/4"	H.M.	F		H.M.	1	101	102	0	



(F)

DOOR TYPES

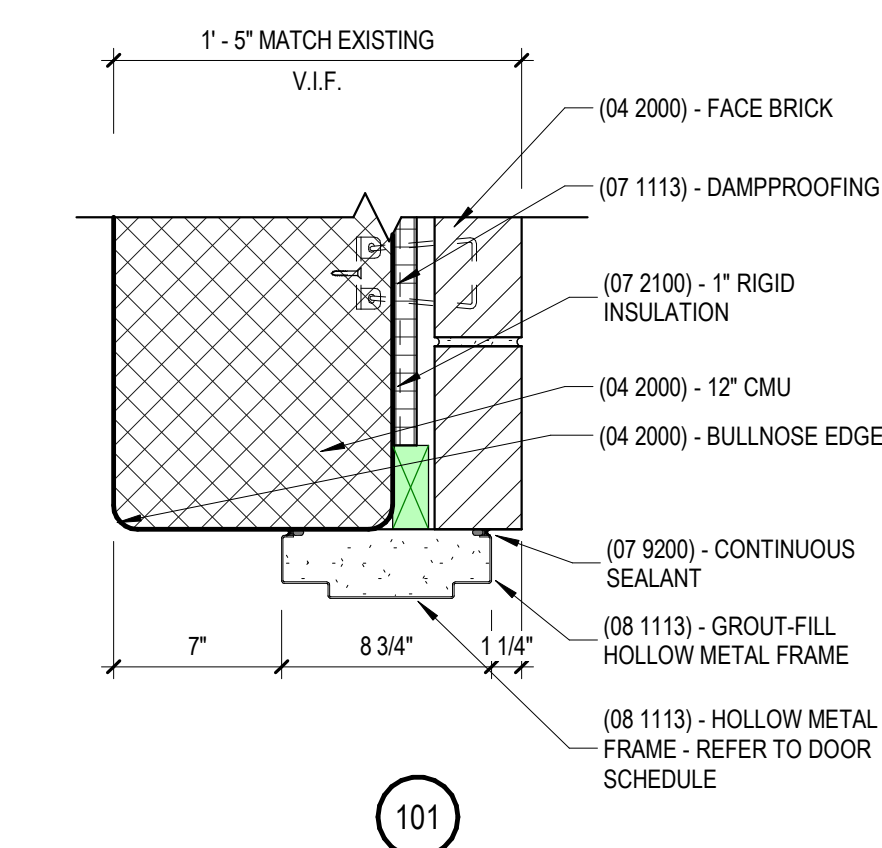
1/4" = 1'-0"



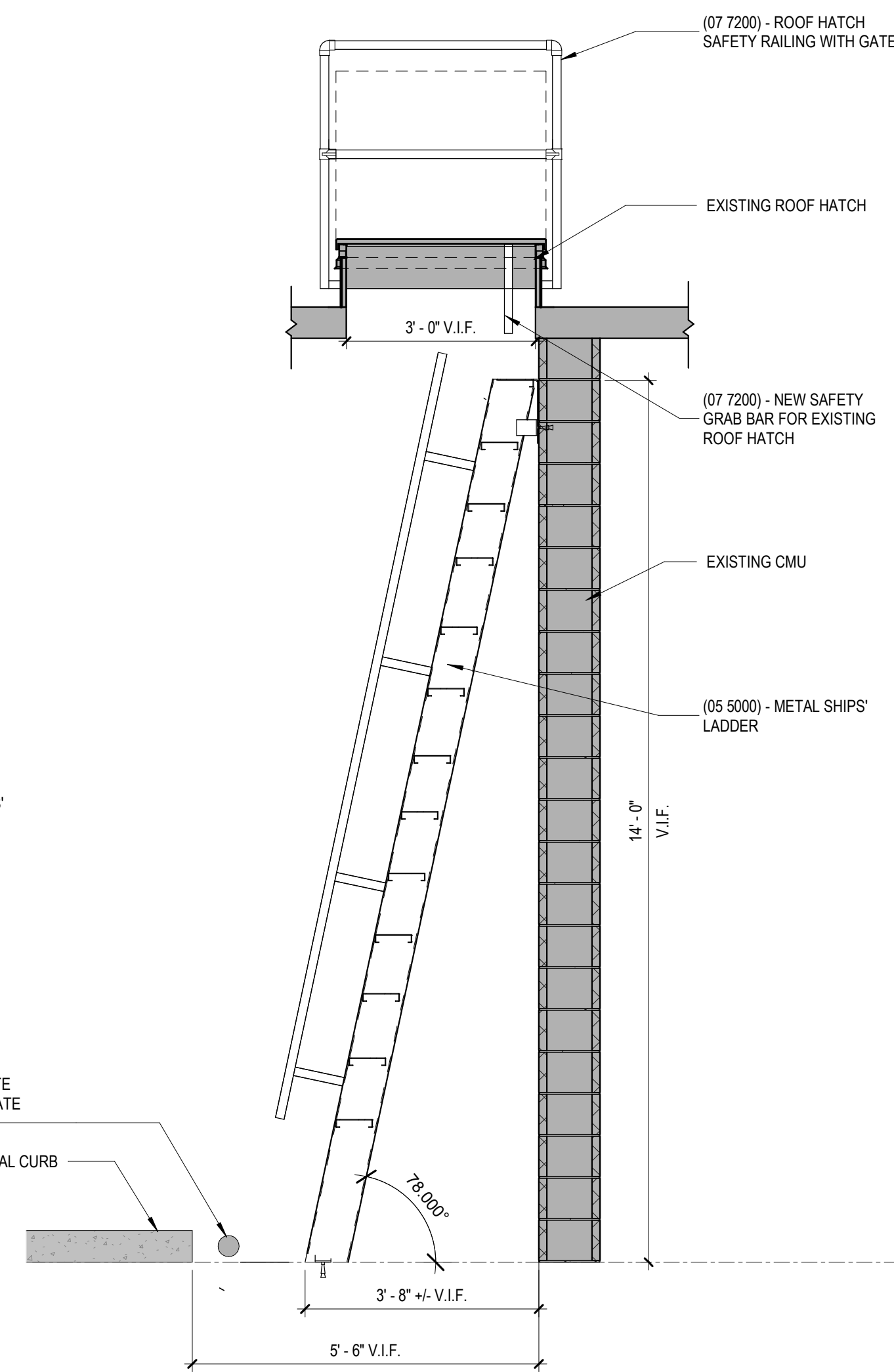
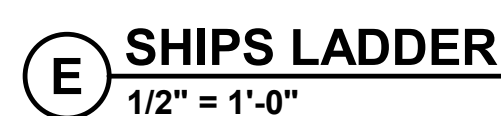
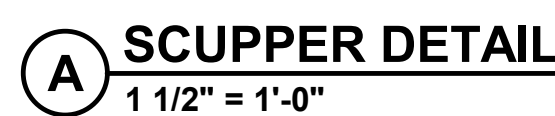
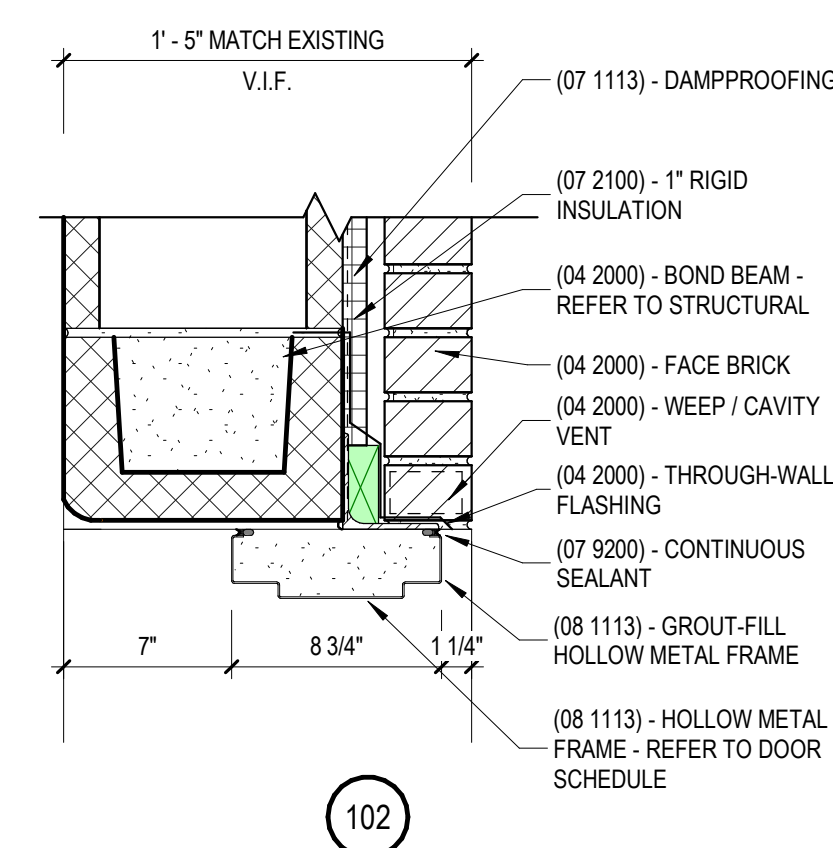
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DOOR FRAME TYPES

1/4" = 1'-0"



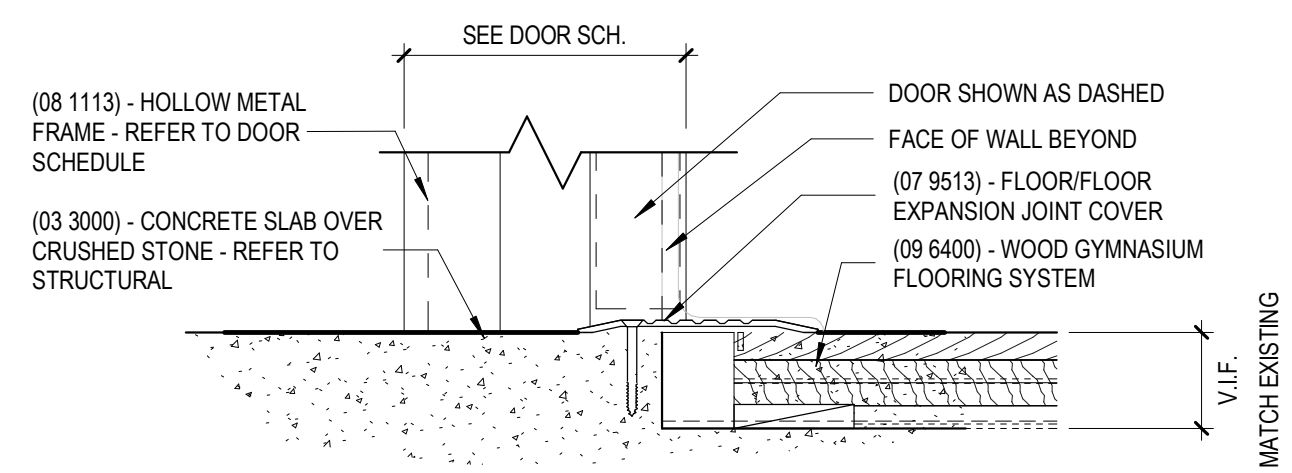
DOOR DETAILS
1 1/2" = 1'-0"



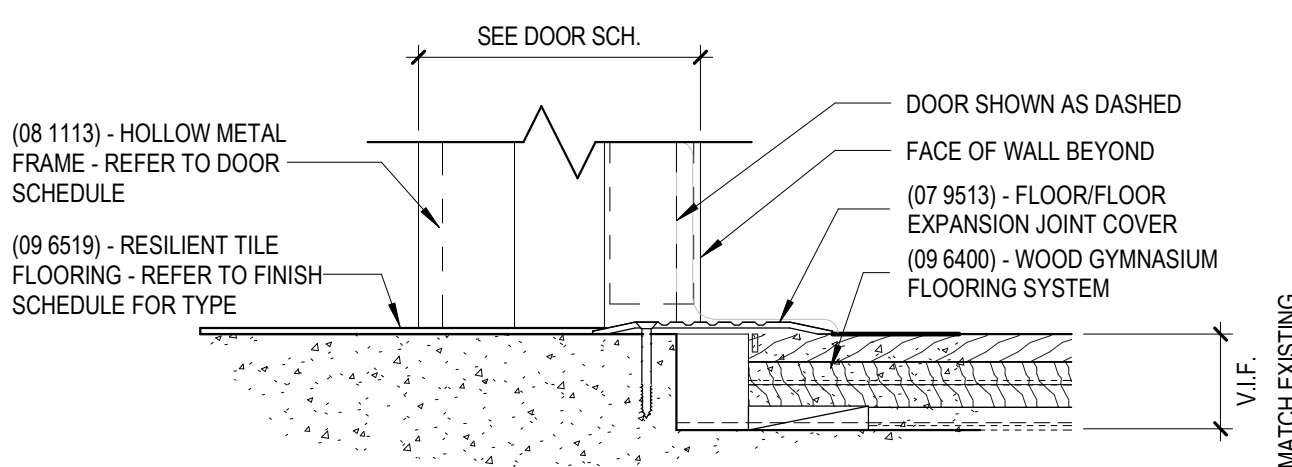
SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100 -	VISUAL DISPLAY SURFACES		
M1	MARKER BOARD (4' x 6')	C.F.C.I.	
10 4113 -	FIRE EQUIPMENT		
FE2	SEMI-RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
11 6623 -	CYMBASIUM EQUIPMENT		
G1	CEILING SUSPENDED BACKSTOP	C.F.C.I.	
G2	WALL PADS (2' X 6' X 3")	C.F.C.I.	



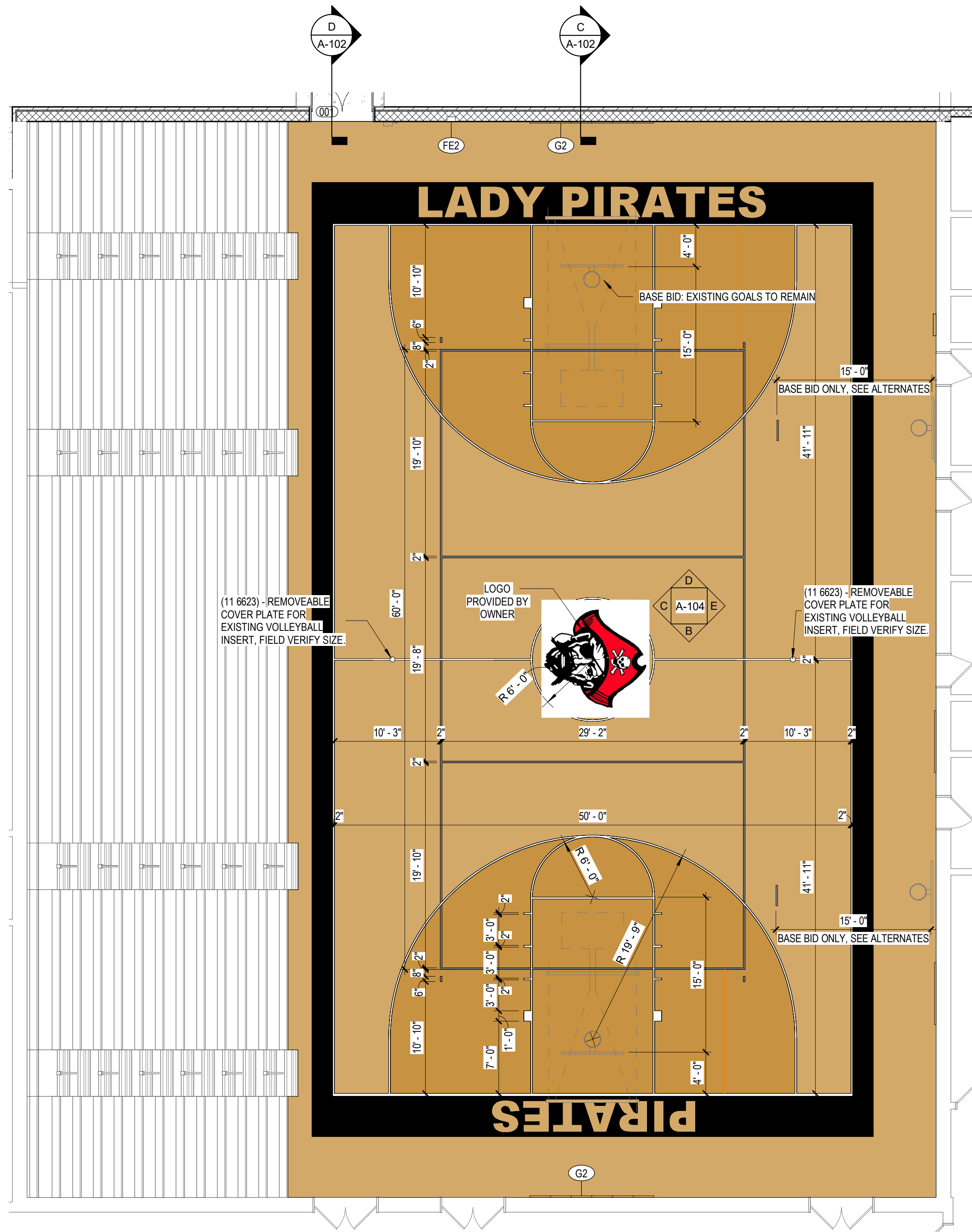
SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100 -	VISUAL DISPLAY SURFACES		
M1	MARKER BOARD (4' x 6')	C.F.C.I.	
10 4113 -	FIRE EQUIPMENT		
FE2	SEMI-RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
11 6623 -	GYMNASIUM EQUIPMENT		
G1	CEILING SUSPENDED BACKSTOP	C.F.C.I.	
G2	WALL PADS (2' X 6' X 3")	C.F.C.I.	



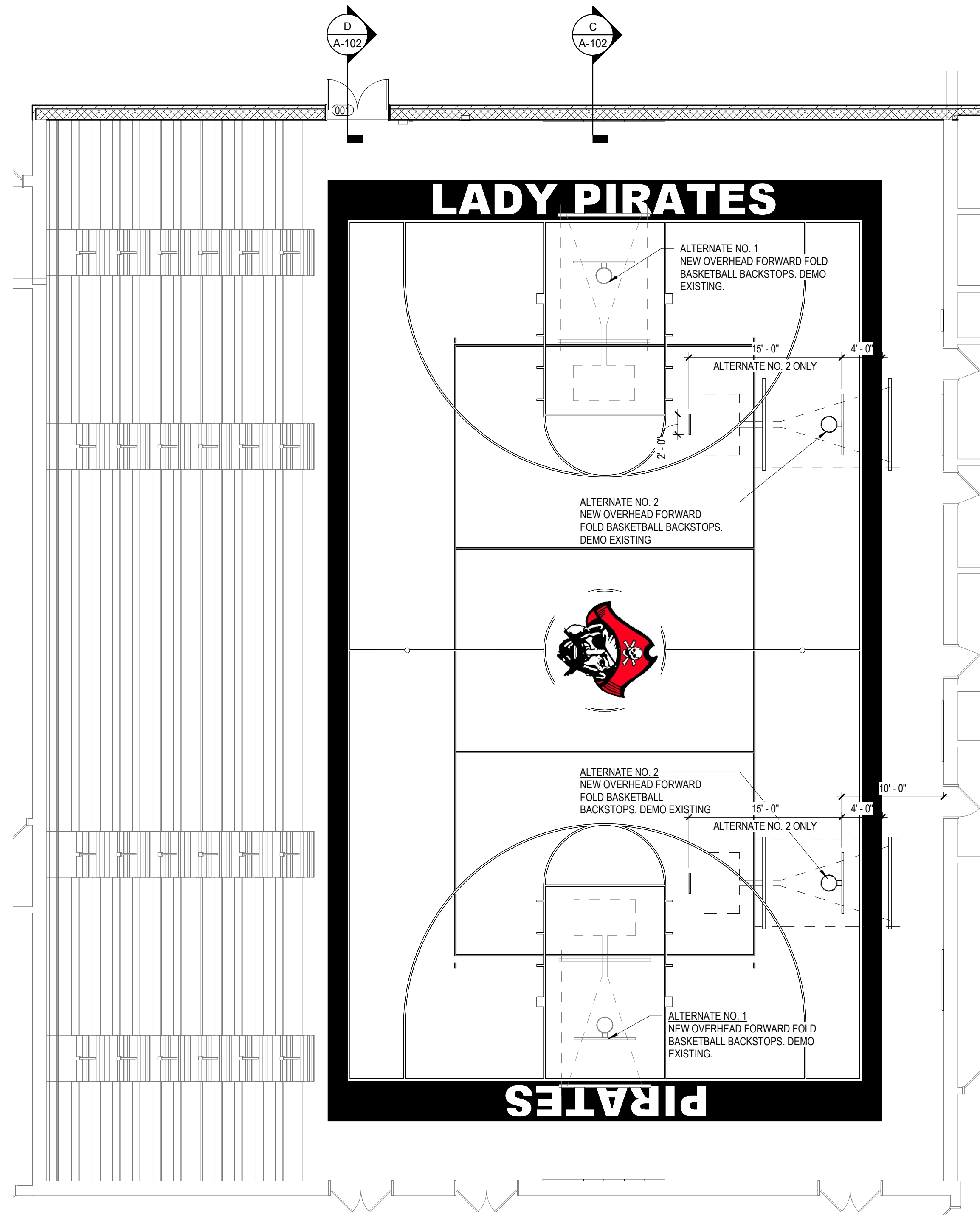
TRANSITION DETAIL
3" = 1'-0"



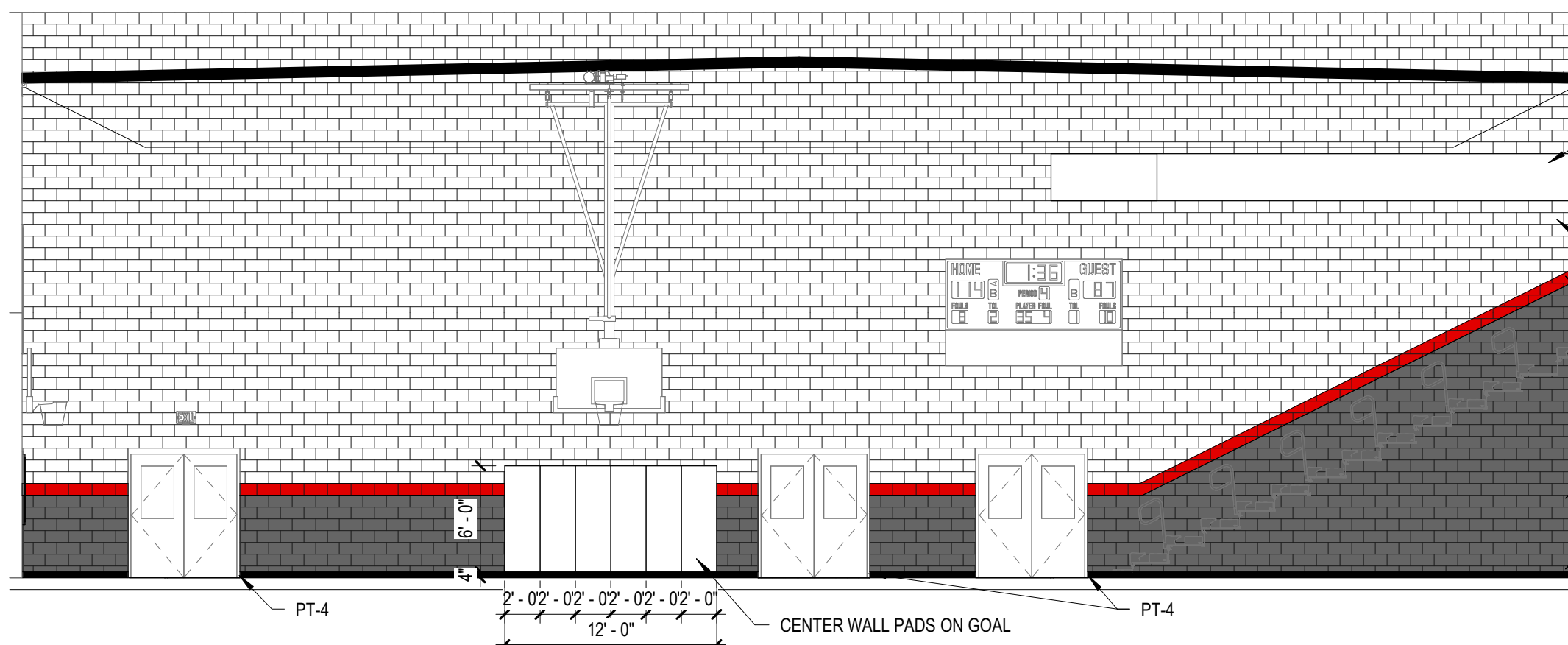
TRANSITION DETAIL
3" = 1'-0"



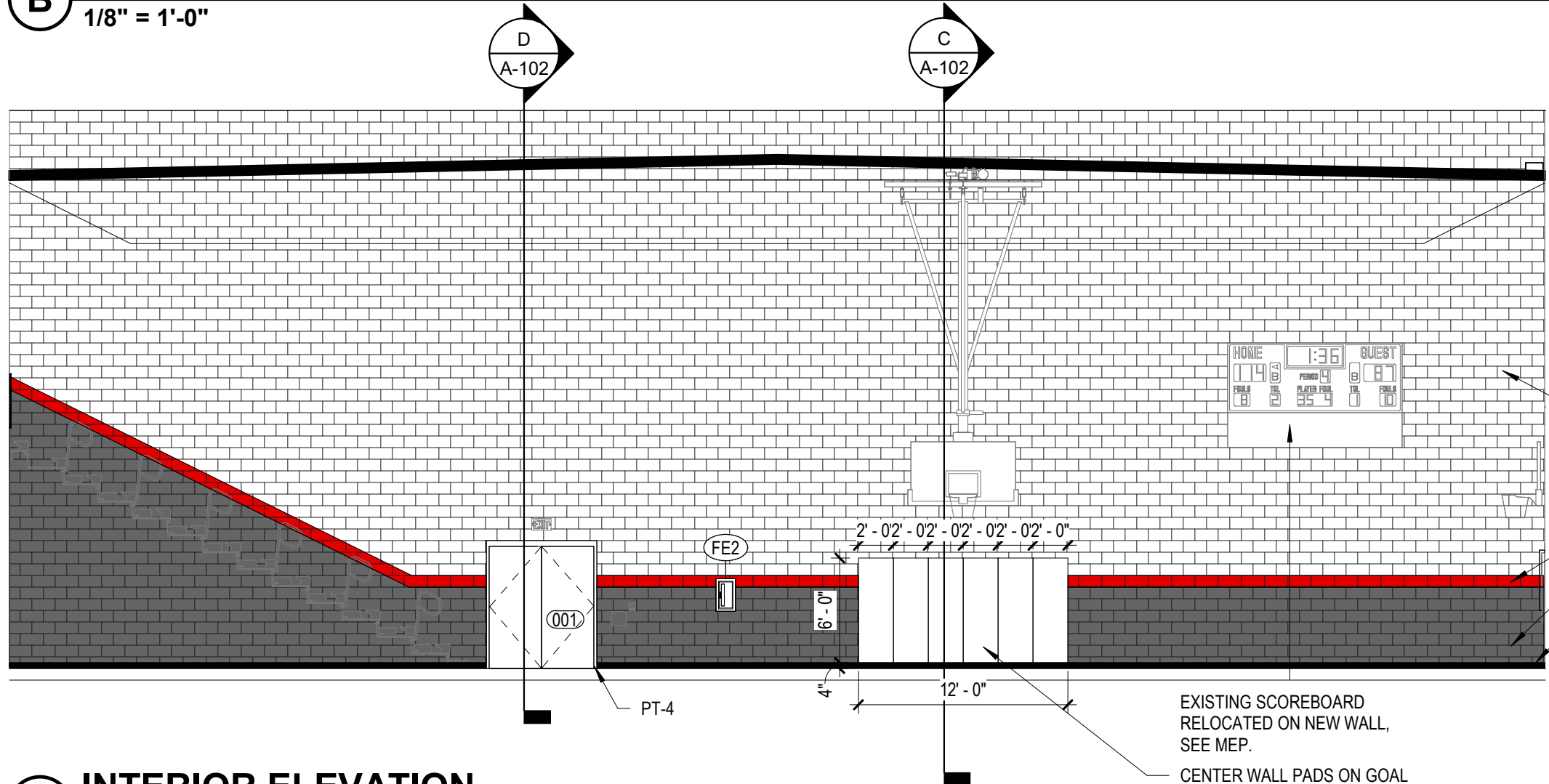
(A) ENLARGED GYM PLAN (BASE BID)
1/8" = 1'-0"



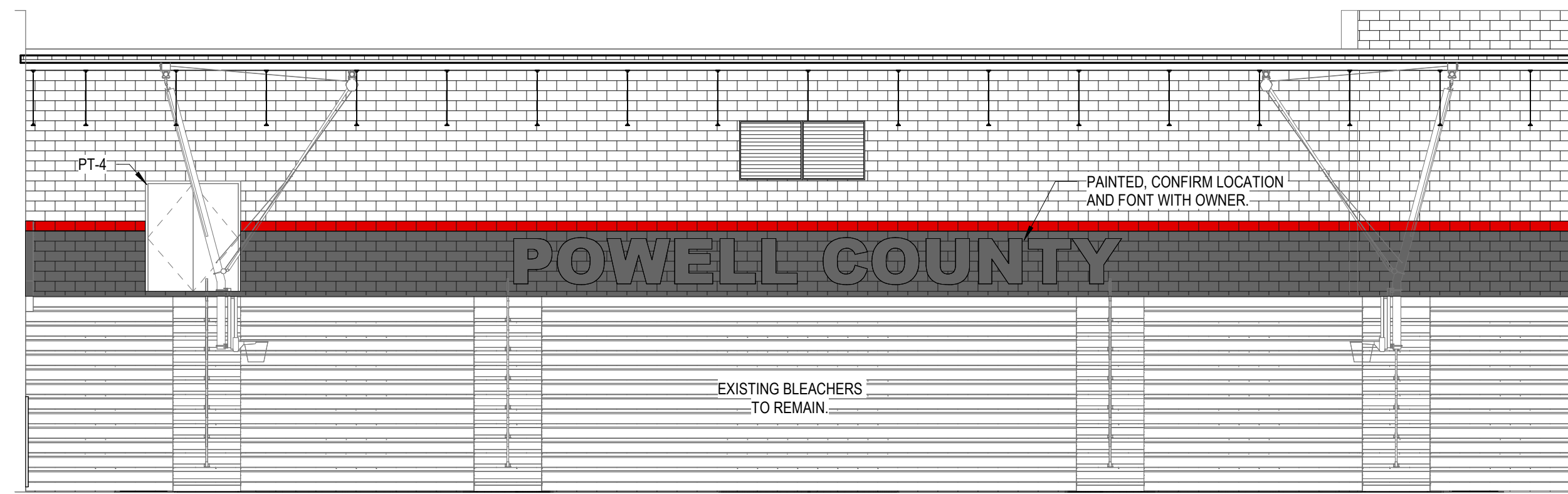
2 ENLARGED PLAN (ALTERNATES)
1/8" = 1'-0"



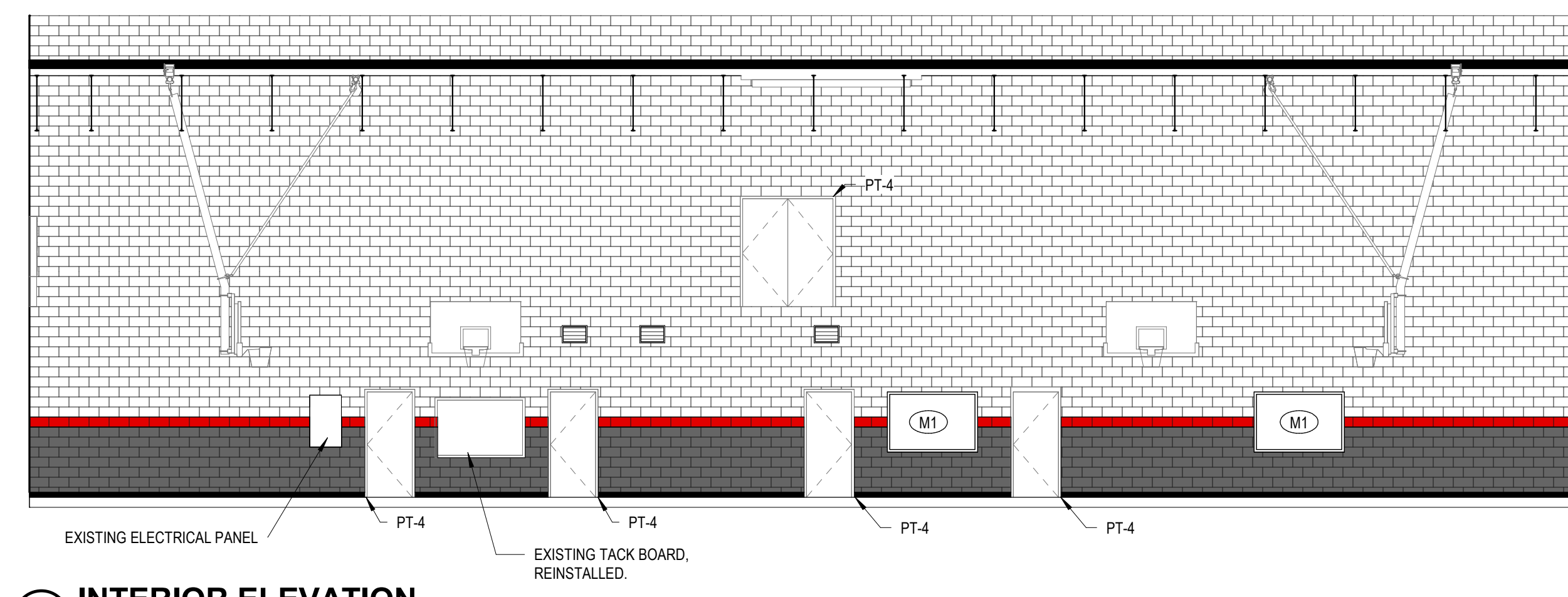
(B) INTERIOR ELEVATION
1/8" = 1'-0"



D INTERIOR ELEVATION
1/8" = 1'-0"



INTERIOR ELEVATION
1/8" = 1'-0"



(E) INTERIOR ELEVATION
1/8" = 1'-0"

Autodesk Docs/24-1252 Powell County Middle School Gym MEP Renovation/24-1252 Powell Co MS Gym Renovation

12/12/2024 10:10:05 AM

POWELL CO. MS WALL REPAIR

770 WEST COLLEGE AVENUE, STANTON

KY 40380

MECHANICAL CONSTRUCTION DOCUMENTS

POWELL COUNTY SCHOOLS

PROJECT DEMOLITION NOTES	PROJECT GENERAL NOTES	HVAC GENERAL NOTES	PLUMBING GENERAL NOTES	FIRE PROTECTION GENERAL NOTES
a. REVIEW ALL EQUIPMENT WITH THE ENGINEER AND OWNER PRIOR TO DISPOSAL. ITEMS OR MATERIALS NOT RETAINED BY OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES. b. CONTRACTOR TO PERFORM DEMOLITION, REMOVAL, RELOCATION, REROUTING AND RECONNECTION OF EXISTING MECHANICAL FACILITIES, AS REQUIRED, SHOWN AND SPECIFIED HEREIN, TO ACCOMPLISH ALTERATION, RESTORATION AND TO ACCOMMODATE NEW CONSTRUCTION. c. THE DEMOLITION WORK SHALL INCLUDE BUT NOT BE LIMITED TO, DRAINING, DISCONNECTING, RELOCATING, REMOVING AND DISMANTLING, IN A NEAT AND WORKMANLIKE MANNER, THE ITEMS AND THEIR ACCESSORIES AS INDICATED OR SHOWN ON THE CONTRACT DRAWINGS. d. CUTTING, PATCHING AND REMOVAL SHALL BE PERFORMED BY WORKERS SKILLED IN THE SPECIFIC TRADES INVOLVED. JOB CONDITIONS PRIOR TO START OF WORK, MAKE AN INSPECTION ACCOMPANIED BY THE OWNER, CONSTRUCTION MANAGER OR GENERAL CONTRACTOR, TO DETERMINE PHYSICAL CONDITION OF ADJACENT CONSTRUCTION THAT IS TO REMAIN. f. TORCH CUTTING OF DUCTWORK WILL NOT BE PERMITTED. g. TORCH CUTTING OF OTHER MECHANICAL EQUIPMENT WILL BE PERMITTED ONLY WITH APPROVAL OF THE OWNER, CONSTRUCTION MANAGER OR GENERAL CONTRACTOR. h. ANY CUTTING METHOD, WHICH MAY CREATE SPARKS, MUST INCLUDE "FIRE WATCH" AS REQUIRED BY THE FIRE CODE AND/OR OWNER'S FIRE INSURANCE CARRIER. SUBMIT FIRE WATCH PROCEDURES FOR APPROVAL. i. DRAINING OPERATIONS MUST NOT DAMAGE BUILDING COMPONENTS. j. ADEQUATELY SIZED RUBBISH CONTAINERS FOR THE PROPER AND SAFE DISPOSAL OF ALL DEBRIS. k. CONSTRUCT TEMPORARY PARTITIONS PRIOR TO ANY DEMOLITION WORK ENCLOSING RESPECTIVE WORK. ERECT TEMPORARY FENCING AND SIGNAGE AROUND DEMOLISHED MATERIALS. l. PROTECT EXISTING MATERIALS AND EQUIPMENT WHICH ARE NOT TO BE DEMOLISHED. m. PREVENT MOVEMENT OF STRUCTURE. PROVIDE REQUIRED BRACING AND SHORING. n. DO NOT BEGIN DEMOLITION WORK UNTIL THE TIME SCHEDULES AND MANNER OF OPERATIONS HAVE BEEN APPROVED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR. ALL INTERRUPTIONS OF EXISTING SERVICES SHALL BE INCLUDED IN THE SCHEDULES AS APPROVED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR. o. PROVIDE ALTERATION AND DEMOLITION OF MECHANICAL FACILITIES AS REQUIRED BY THE CONTRACT DRAWINGS AND SPECIFICATIONS. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW THE EXACT LOCATION OF ALL EXISTING MECHANICAL WORK. WHERE EXISTING EQUIPMENT SHALL REMAIN IN SERVICE DURING CONSTRUCTION, PROVIDE REROUTING AND RECONNECTION OF MECHANICAL SERVICES AS REQUIRED TO MAINTAIN CONTINUOUS SERVICE. p. EXISTING DUCTWORK, PIPING, CONDUIT AND SIMILAR ITEMS TO BE ABANDONED THAT ARE NOT EMBEDDED IN WALLS OR FLOOR SLABS SHALL BE COMPLETELY REMOVED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. CAP OPEN ENDS AT ALL WALLS AND FLOORS. q. REMOVE, STORE AND PROTECT ALL EQUIPMENT OR MATERIALS TO BE REUSED BY THE OWNER AS SHOWN ON THE DRAWINGS. COORDINATE EXACT LOCATION OF STORAGE WITH THE OWNER. r. TEMPORARILY CAP ENDS OF DUCTWORK, SANITARY PIPING AND SANITARY VENT PIPING TO AVOID ENTRY OF DIRT, DEBRIS, OR DISCHARGE OF FOUL ODORS AND GASES. s. DO NOT CLOSE OR OBSTRUCT EGRESS WIDTH TO EXITS. t. DO NOT DISABLE OR DISRUPT BUILDING FIRE OR LIFE SAFETY SYSTEMS WITHOUT FIVE (5) DAYS' PRIOR WRITTEN NOTICE TO THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR. u. CONFORM TO PROCEDURES APPLICABLE WHEN DISCOVERING HAZARDOUS OR CONTAMINATED MATERIALS. v. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT BUILDING STRUCTURES OR OWNERS OPERATIONS. w. CEASE OPERATIONS IMMEDIATELY IF STRUCTURE APPEARS TO BE IN DANGER OR HAZARDOUS MATERIALS ARE ENCOUNTERED. NOTIFY ARCHITECT/ENGINEER. DO NOT RESUME OPERATIONS UNTIL DIRECTED. x. REMOVE DEMOLISHED MATERIALS FROM SITE DAILY. DO NOT BURN OR BURY MATERIALS ON SITE. y. DISPOSE OF ALL MATERIAL AT AN APPROVED DISPOSAL FACILITY. z. PROTECT FINISHED SURFACES AT ALL TIMES AND REPAIR OR REPLACE, IF DAMAGED, TO MATCH EXISTING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER. aa. CUT OFF ALL WELDED PIPING SQUARE AT THE LOCATIONS INDICATED ON THE DRAWINGS. NO CUTTING WILL BE REQUIRED WHERE THE DEMOLITION ENDS AT A FLANGED VALVE OR EQUIPMENT. CLOSE OFF ALL OPENINGS OF ANY REMAINING VALVES, PIPING OR FITTINGS WITH WELD CAPS OR BLIND FLANGES TO PREVENT DEBRIS FROM ENTERING THE EXISTING SYSTEM. ab. DISCONNECT ALL THREADED PIPING AT THE LOCATION INDICATED ON THE DRAWINGS. CLOSE OFF ALL OPENINGS OF REMAINING VALVES, PIPING, FITTINGS AND EQUIPMENT WITH PIPE PLUGS OR PIPE CAPS AS REQUIRED TO PREVENT DEBRIS FROM ENTERING THE EXISTING SYSTEMS. ac. REMOVE ALL PIPE HANGERS, SUPPORTS, MISCELLANEOUS STEEL AND ANCHORS WITH THE PIPING. ad. IT IS INTENDED THAT THE BUILDING REMAIN PROTECTED FROM DAMAGE DUE TO FREEZING TEMPERATURES. TO THAT END, EXISTING EQUIPMENT AND SYSTEMS USED FOR HEATING SHALL REMAIN IN PLACE AND IN OPERATION UNTIL SCHEDULING PERMITS SHUTDOWN. ae. WHERE THE REMOVAL OF EQUIPMENT, ETC. WILL LEAVE AN AREA UNPROTECTED FROM FREEZING, NOTIFY THE OWNER AND ENGINEER AT LEAST 72 HOURS IN ADVANCE PRIOR TO REMOVAL. SO APPROPRIATE STEPS CAN BE TAKEN BY THE OWNER TO PROTECT THE AREA. PROVIDE TEMPORARY HEATING EQUIPMENT SUFFICIENT TO PREVENT FREEZING. af. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT PIPING SYSTEMS THAT ARE BEING WORKED ON ARE COMPLETELY DRAINED FROM WATER PRIOR TO THE START OF DEMOLITION. IF WATER IS NOT DRAINED AND THE PIPING FREEZES IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPLACE PIPING AT HIS OWN EXPENSE. ag. WHEN PORTIONS OF AN EXISTING PIPING SYSTEM OR DUCTWORK SYSTEM ARE REMOVED, AND THIS REMOVAL CAUSES LOSS OF OPERATION TO ANOTHER PIECE OF EQUIPMENT DUE TO OPEN (DISCONNECTED) PIPING OR DUCTWORK, THEN CAP PIPING OR DUCTWORK OR PROVIDE TEMPORARY PIPING OR DUCTWORK SYSTEM TO RETAIN OPERATION OF VARIOUS SYSTEMS. ah. WHERE REMOVAL OF MECHANICAL EQUIPMENT AS SHOWN ON THE CONTRACT DRAWINGS, INCLUDED REMOVAL ALL ELECTRICAL WORK, INCLUDING WIRING BETWEEN EQUIPMENT, AND WIRING TO POWER SOURCE OR POINT OF ORIGIN. ai. WHERE EQUIPMENT IS SUPPORTED BY STEEL AND/OR STRUCTURAL SUPPORTS, REMOVE THESE SUPPORTS. aj. RECOVER AND DISPOSE OF ALL EXISTING REFRIGERANT CHARGES IN ACCORDANCE WITH EPA REGULATIONS. RELEASE OF CHLOROFLUOROCARBON REFRIGERANTS TO ATMOSPHERE IS PROHIBITED. ak. DISCONNECT ALL DUCTWORK, WHICH MUST BE REMOVED, AT THE CLOSEST JOINT AND RESUPPORT THE REMAINING DUCTWORK. al. PREPARE ALL REMAINING DUCTWORK JOINTS AT THE POINT OF DISCONNECTION TO RECEIVE NEW DUCTS OR BLANK-OFF PANELS. am. REMOVE ALL DUCTWORK SUPPORTS AND MISCELLANEOUS STEEL WITH DUCTWORK TO BE DEMOLISHED. an. REMOVE INSULATION, TOGETHER WITH ALL PIPING, FITTINGS, VALVES AND EQUIPMENT DESIGNATED FOR DEMOLITION. ao. DISCONNECT AND REMOVE ALL CONTROL INCLUDING CONDUIT, INCLUDING CONDUIT, FOR THE AUTOMATIC TEMPERATURE CONTROL (ATC) SYSTEM ASSOCIATED WITH EQUIPMENT TO BE REMOVED.	a. REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES. b. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE. c. WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. d. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS. e. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT. f. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE. g. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING. h. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF. i. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. j. FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. REFER TO SPECIFICATION. k. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT. l. REFER TO PLUMBING SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING. m. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN. n. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS. o. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS. p. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD. q. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.	a. SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE. b. CONTRACTOR SHALL LOCATE THERMOSTATS 4'-0" AFF AND TEMPERATURE SENSORS AT 5'-0" AFF. A MINIMUM OF 8" FROM LIGHT SWITCH. c. REFER TO PIPING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS. d. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER. e. PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED. f. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE. g. THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.	a. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS. b. PITCH STORM PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS OTHERWISE NOTED. c. PITCH UNDERFLOOR AND ABOVE FLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED OR APPROVED BY AUTHORITY HAVING JURISDICTION. d. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION. e. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS. f. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM. g. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.	a. PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES. NFPA, AND FACTORY MUTUAL. b. THE BUILDING COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS. c. THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK. d. PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES. NFPA, AND FACTORY MUTUAL. e. THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE. f. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE. UNLESS NOTED OTHERWISE. g. DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM. h. ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING. i. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER. j. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN, WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE. k. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED. l. AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER. m. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS. n. FLOW TEST DATA FROM ### INDICATES THE FOLLOWING: STATIC PRESSURE # PSI, RESIDUAL PRESSURE: # PSI AT ## GPM. THE HYDRANTS TESTED ARE APPROXIMATELY ### FEET AWAY FROM THE CENTER OF THE SITE LOCATED OFF THE ##" WATER MAIN IN ## STREET AT AN ELEVATION OF ## FEET ABOVE SEA LEVEL. SEE CIVIL PLANS FOR HYDRANT LOCATION. THE CONTRACTOR SHALL PERFORM A FIRE FLOW TEST IN ACCORDANCE WITH NFPA 291 TO VERIFY THE FLOW TEST DATA GIVEN ABOVE. THE DATA GIVEN ABOVE SHALL BE THE BASIS OF DESIGN UNLESS THE AVAILABLE PRESSURE OR FLOW HAS DECREASED. NOTIFY OWNERS REPRESENTATIVE IF FLOW TEST DATA DIFFERS FROM THE DATA ABOVE. A FIRE PROTECTION ENGINEER OR AN ENGINEER EXPERIENCED IN WATER FLOW TESTING SHALL PERFORM OR WITNESS THE REQUIRED FLOW TESTING AND SIGN THE REPORT PRIOR TO THE FIRST SPRINKLER SYSTEM SUBMITTAL. o. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM. p. THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS. q. THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

MECHANICAL SHEET INDEX

M-000	MECHANICAL COVER PAGE
M-001	MECHANICAL SYMBOLS
M-100	MECHANICAL PLANS

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MECHANICAL

PROJECT	2024-52
DATE	12/17/24

REVISIONS

No.	Description	Date

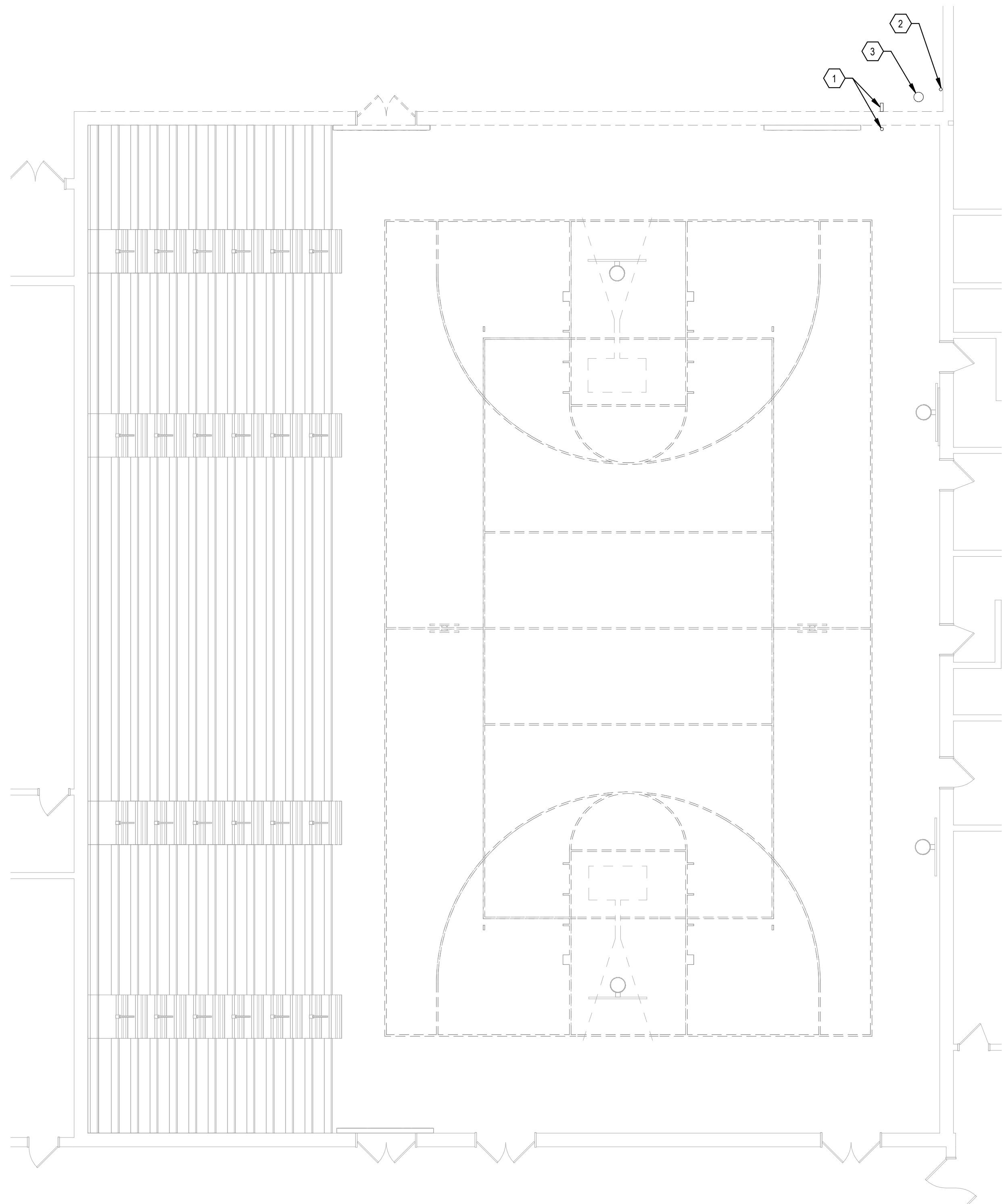
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MECHANICAL
COVER PAGE

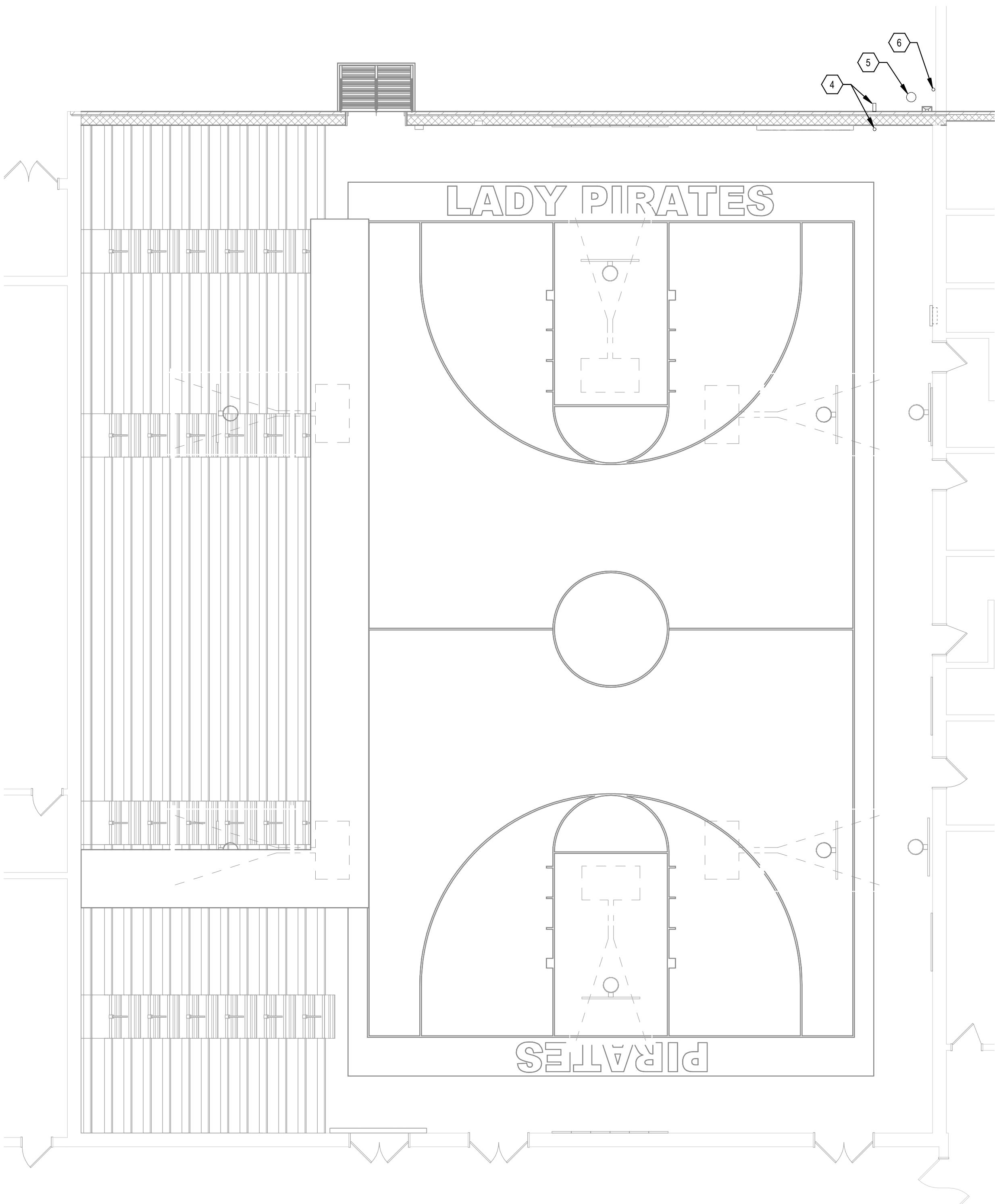
M-000

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1 ENLARGED GYM MECHANICAL DEMOLITION PLAN
M-100
1/8" = 1'-0"



2 ENLARGED GYM MECHANICAL PLAN
M-100
1/8" = 1'-0"



KEY NOTES:

- 1 SCHEDULE SPRINKLER/WATER OUTAGE WITH SCHOOL. SHUT SPRINKLER OFF TO GYM OR NEAREST SHUT-OFF VALVE. REMOVE EXISTING SPRINKLER DRAIN LINE AND SHUT-OFF VALVE AND DRAIN PIPE BACK TO CLOSEST SPRINKLER HEAD UP IN CEILING. CAP END OF EXISTING SPRINKLER PIPE. PROCEED WITH WALL DEMOLITION PER STRUCTURAL DRAWINGS.
- 2 EXISTING GAS LINE TO REMAIN. PROTECT EXISTING NATURAL GAS LINE DURING DEMOLITION OF EXISTING GYM WALL.
- 3 EXISTING SANITARY CLEAN-OUT TO REMAIN. PROTECT EXISTING SANITARY CLEAN-OUT.
- 4 INSTALL NEW 1-INCH, SCHEDULE-40 STEEL SPRINKLER PIPING IN WALL AT SAME LOCATION AS PREVIOUS SPRINKLER DRAIN LINE. COORDINATE FINAL LOCATION WITH RELOCATED SCOREBOARD. RECONNECT TO EXISTING SPRINKLER LINE UP IN CEILING. PRESSURE TEST NEW LINE FOR LEAKS.
- 5 EXISTING SANITARY CLEAN-OUT.
- 6 EXISTING GAS LINE.

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MECHANICAL
PLANS

M-100

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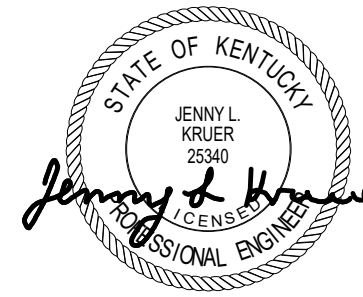
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ELECTRICAL SHEET INDEX

E-000 ELECTRICAL SYMBOLS AND ABBREVIATIONS
E-100 ELECTRICAL PLANS

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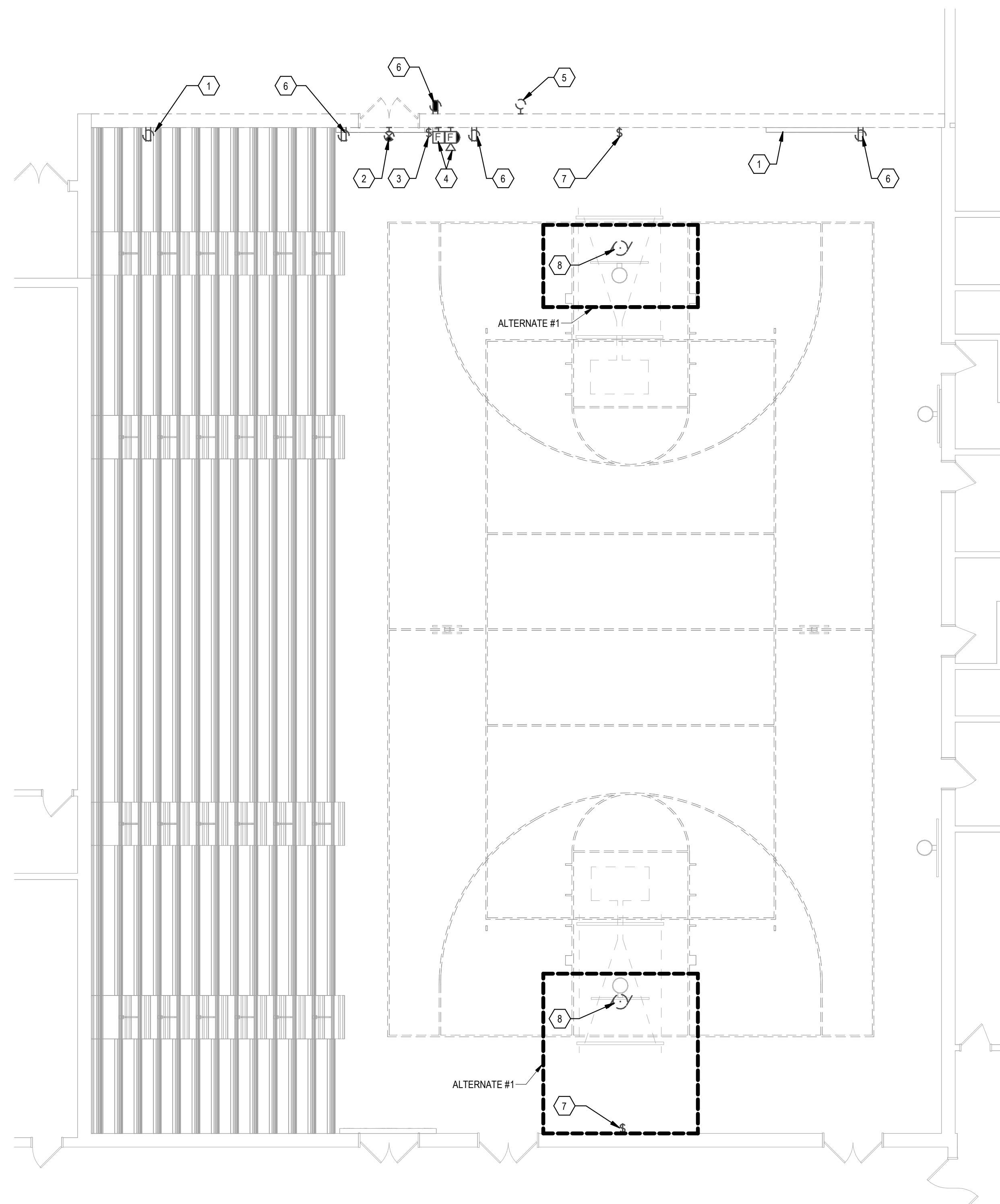
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ELECTRICAL
SYMBOLS AND
ABBREVIATIONS

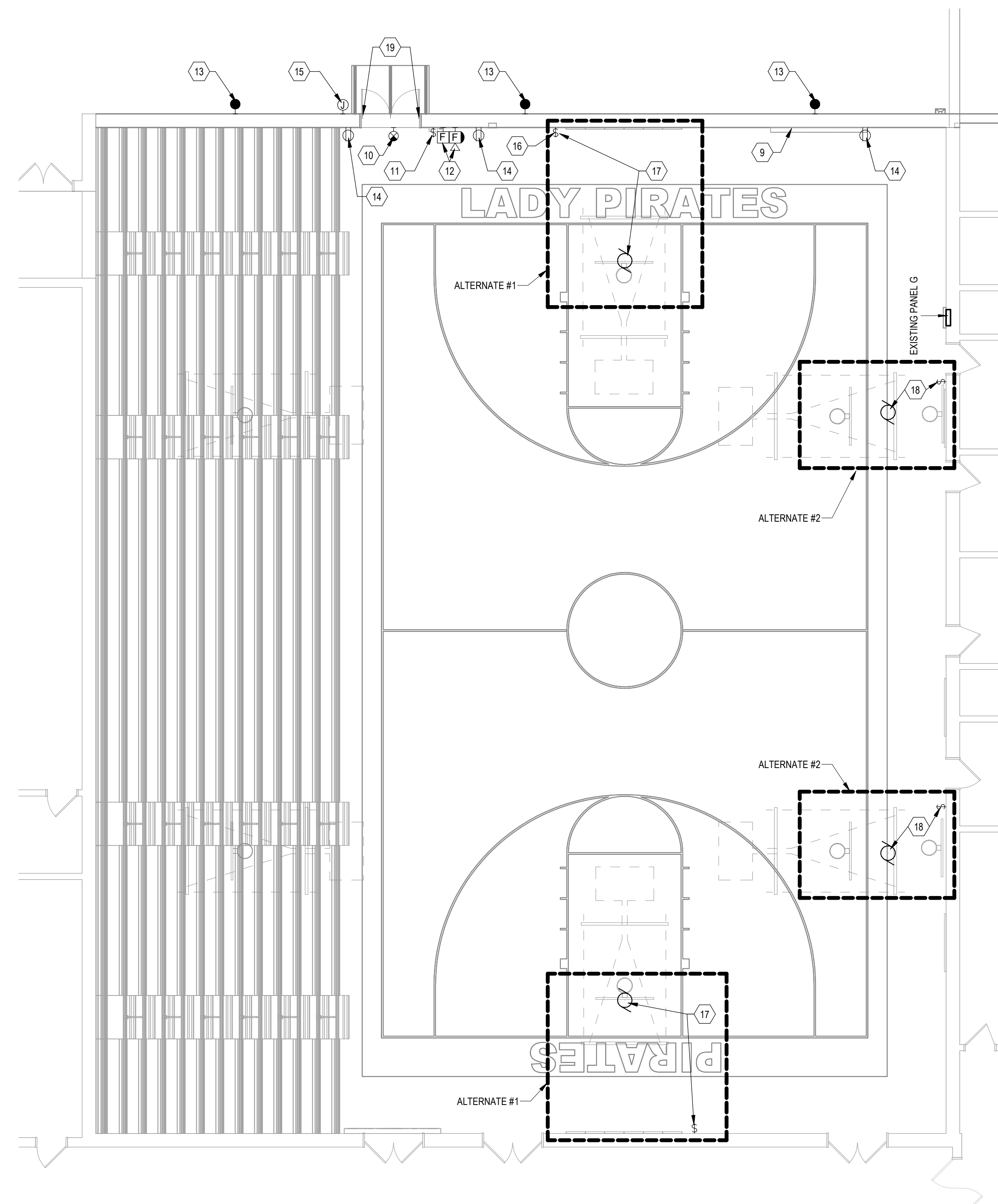
E-000

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GENERAL		LIGHTING SYSTEMS		FIRE ALARM SYSTEMS	
	DETAIL NUMBER E100 - SHEET NUMBER		LUMINAIRE DESIGNATION (APPLICABLE TO ALL LUMINAIRES) A - LUMINAIRE TYPE 3 - CIRCUIT NUMBER S - SWITCHING SOLID HATCHING (FULL OR PARTIAL) INDICATES LIFE SAFETY CROSS HATCHING (FULL OR PARTIAL) INDICATES CRITICAL CIRCUIT		MANUAL STATION
	ELECTRICAL KEYED NOTE NUMBER		SURFACE MOUNTED LUMINAIRE		WALL MOUNTED HORN
	INDICATES ALL DEVICES UNDER ONE COVERPLATE		RECESSED MOUNTED LUMINAIRE		CEILING MOUNTED HORN
RACEWAY SYSTEMS			LINEAR PENDANT LUMINAIRE		WALL MOUNTED STROBE LIGHT
	CONDUIT CONCEALED IN WALL OR CEILING		PENDANT LUMINAIRE		CEILING MOUNTED STROBE LIGHT
	CONDUIT CONCEALED IN/ UNDER FLOOR		SURFACE MOUNTED DOWNLIGHT LUMINAIRE		WALL MOUNTED HORN AND STROBE LIGHT
	CONDUIT RUN EXPOSED		WALL MOUNTED LUMINAIRE		CEILING MOUNTED SPEAKER
	CONDUIT TRANSITION UP		STRIP LUMINAIRE		CEILING MOUNTED SPEAKER AND STROBE LIGHT
	CONDUIT TRANSITION DOWN		TRACK LIGHTING AND TRACK LUMINAIRE HEADS		CEILING MOUNTED STROBE LIGHT
	JUNCTION BOX		EXIT LIGHT OUTLET IN CEILING, SHADED QUADRANT DEMOTES FACE DIRECTION. ARROW INDICATES DIRECTION OF TRAVEL		CEILING MOUNTED SPEAKER AND STROBE LIGHT
	JUNCTION BOX - FLOOR MOUNTED		EXIT LIGHT OUTLET IN WALL, SHADED QUADRANT DEMOTES FACE DIRECTION. ARROW INDICATES DIRECTION OF TRAVEL		CEILING MOUNTED SPEAKER AND STROBE LIGHT
	JUNCTION BOX - WALL MOUNTED		EXIT LIGHT WITH EMERGENCY LIGHTING UNIT IN WALL, SHADED QUADRANT DEMOTES FACE DIRECTION. ARROW INDICATES DIRECTION OF TRAVEL		CEILING MOUNTED SPEAKER AND STROBE LIGHT
	PULL BOX		BATTERY POWERED EMERGENCY LIGHTING UNIT		CEILING MOUNTED CHIME AND STROBE LIGHT
	MAN HOLE		REMOTE BATTERY POWERED HEAD		WALL MOUNTED BELL
	HAND HOLE		FIRE ALARM LEGEND		FIRE ALARM DEVICE
POWER SYSTEMS			DISTRIBUTION PANEL		FIRE ALARM DEVICE
	TRANSFORMER		RECESSED WALL BOX (WITH SWITCH NUMBER AND TYPES AS SHOWN ON PLANS)		FIRE ALARM DEVICE
	120/208V SURFACE MOUNTED PANELBOARD		SINGLE POLE SWITCH		FIRE ALARM DEVICE
	480/277V SURFACE MOUNTED PANELBOARD		OCCUPANCY SENSOR		FIRE ALARM DEVICE
	120/208V FLUSH MOUNTED PANELBOARD		CEILING MOUNTED OCCUPANCY SENSOR		FIRE ALARM DEVICE
	480/277V FLUSH MOUNTED PANELBOARD		LIGHT SENSOR (DAYLIGHT HARVESTING)		FIRE ALARM DEVICE
	MOTOR STARTER SWITCH		PHOTOCELL		FIRE ALARM DEVICE
	VARIABLE SPEED CONTROL SWITCH WITH ON/OFF		TIME CONTROL SWITCH (TIME CLOCK)		FIRE ALARM DEVICE
	NON-FUSED SAFETY SWITCH		ELECTRICAL SYMBOLS LEGEND NOTES		FIRE ALARM DEVICE
	CONTROLLER OR STARTER		THESE SYMBOLS COMPRISE A STANDARD LIST, NOT ALL SYMBOLS MAY APPEAR ON THESE DRAWINGS.		FIRE ALARM DEVICE
	COMINATION STARTER / DISCONNECT SWITCH		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	VARIABLE FREQUENCY DRIVE WITH DISCONNECT		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	RELAY		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	ELECTRIC THERMOSTAT (OPERABLE)		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	PUSH PLATE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	SINGLE RECEPTACLE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	DUPLEX RECEPTACLE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	QUAD RECEPTACLE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	ARC FAULT DUPLEX RECEPTACLE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	SPLIT OR HALF SWITCHED DUPLEX RECEPTACLE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	SPECIAL PURPOSE OUTLET OR CONNECTION		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	GFCI RECEPTACLE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	ABOVE COUNTER RECEPTACLE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	ABOVE COUNTER GFCI RECEPTACLE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	CEILING MOUNTED RECEPTACLE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	FLUSH FLOOR BOX (WITH RECEPTACLE TYPE SHOWN ON PLANS)		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	CORD DROP (WITH RECEPTACLE TYPE SHOWN ON PLANS)		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	POKE THROUGH FLOOR BOX (WITH RECEPTACLE TYPE SHOWN ON PLANS)		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	MOTOR (EQUIPMENT) DESIGNATION P1		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	POWER POLE		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	THREE BUTTON MOTOR CONTROL STATION		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	MULTI-OUTLET ASSEMBLY OUTLET (SPACING AS SPECIFIED)		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
	GROUND BAR		MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.		FIRE ALARM DEVICE
TECHNOLOGY SYSTEMS			BLANK - 2 DATA		FIRE ALARM DEVICE
	DATA LEGEND		BLANK - 1 DATA		FIRE ALARM DEVICE
	DATA OUTLET		BLANK - 2 DATA		FIRE ALARM DEVICE
	DATA / PHONE OUTLET (TYPICAL)		BLANK - 3 DATA		FIRE ALARM DEVICE
	CEILING DATA OUTLET		BLANK - 1 DATA		FIRE ALARM DEVICE
	TELEPHONE OUTLET - (W = WALL MOUNT AT 48")		BLANK - 2 DATA		FIRE ALARM DEVICE
	FLUSH FLOOR BOX (WITH DATA OUTLET AS SHOWN ON PLANS)		BLANK - 3 DATA		FIRE ALARM DEVICE
	FLUSH TABLE BOX (WITH DATA OUTLET AS SHOWN ON PLANS)		BLANK - 1 DATA		FIRE ALARM DEVICE
	POKE THROUGH FLOOR BOX (WITH DATA OUTLET AS SHOWN ON PLANS)		BLANK - 2 DATA		FIRE ALARM DEVICE
	CLOCK RECEPTACLE		BLANK - 3 DATA		FIRE ALARM DEVICE
	CLOCK LEGEND		BLANK - 1 DATA		FIRE ALARM DEVICE
	WIRELESS ACCESS POINT DATA OUTLET (D UNLESS NOTED OTHERWISE)		BLANK - 2 DATA		FIRE ALARM DEVICE
	DISTRIBUTED ANTENNA		BLANK - 3 DATA		FIRE ALARM DEVICE
	PROGRAM BELL FOR CLOCK SYSTEM		BLANK - 1 DATA		FIRE ALARM DEVICE
	SIGNAL SYSTEM CABINET		BLANK - 2 DATA		FIRE ALARM DEVICE
	RESCUE ASSISTANCE DEVICE		BLANK - 3 DATA		FIRE ALARM DEVICE
	MASTER CONTROL STATION		BLANK - 1 DATA		FIRE ALARM DEVICE
	CALL STATION		BLANK - 2 DATA		FIRE ALARM DEVICE
ELECTRICAL ABBREVIATIONS					
A	AND	EA	EACH	LV	LOW VOLTAGE
@	AT	EM	EMERGENCY	LFC	LIQUID TIGHT FLEXIBLE CONDUIT
+	CENTERLINE	ELEV	ELEVATOR	LHT	LIGHT
°	DEGREES (S)	EQUIP	EQUIPMENT	LTS	LIGHTS
Ø	PHASE OR ROUND	EW	ELECTRIC WATER COOLER	LTG	LIGHTING
#	FOUND OR NUMBER	EXT	EXTERIOR	MTV	MASTER ANTENNA TELEVISION
AFCI	ARC FAULT CURRENT INTERRUPTER	FAA	FIRE ALARM ANNUNCIATOR PANEL	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	FACP	FIRE ALARM CONTROL PANEL	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	GC	GENERAL CONTRACTOR	MECH	MECHANICAL
APP	ALARM ANNUNCIATOR PANEL	GEN	GENERATOR	MEZZ	MEZZANINE
AL	ALUMINUM	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MFR	MANUFACTURER
AMP	AMPERE	GND	GROUND	MIN	MINIMUM
APPROX	APPROXIMATE	GMB	GROUNDING MAIN BUS BAR	MISC	MISCELLANEOUS
ARCH	ARCHITECT/ARCHITECTURAL	H	HEIGHT	MS	MOTOR STARTER
ATS	AUTOMATIC TRANSFER SWITCH	HP	HORSE POWER	MSP	MOTOR STARTER PANEL
AUTO	AUTOMATIC	HZ	HERTZ	MSS	MOTOR STARTER SWITCH
BAS	BUILDING AUTOMATION SYSTEM	INT	INTERIOR	N/A	NOT APPLICABLE
BOT	BOTTOM	JB	JUNCTION BOX	NL	NIGHT LIGHT
C	CONDUIT	INTS	NOT TO SCALE	N.T.S	NOT TO SCALE
CAB	CABINET	PF	POWER FACTOR	VA	VOLTAGE
CB	CIRCUIT BREAKER	PV	POST INDICATOR VALVE	V	VOLT
CCTV	CLOSED CIRCUIT TELEVISION	PVL	PANEL	W	WATT (S)
CLG	CEILING	PVC	POLYVINYL CHLORIDE	W	WIDTH
CIT	CURRENT TRANSFORMER	R/RECEPT	RECEPTACLE	W	WITH UNIT
D	DEPTH	RM	ROOM	WG	WIRE GUARD
DIV	DIVISION	SCHED	SCHEDULE	WP	WEATHERPROOF
DWG	DRAWING	SECT	SECTION	XFMR	TRANSFORMER



1 ENLARGED GYM ELECTRICAL DEMOLITION PLAN
E-100 1/8" = 1'-0"



2 ENLARGED GYM ELECTRICAL PLAN
E-100 1/8" = 1'-0"

 KEY NOTES:

- 1 DISCONNECT AND REMOVE EXISTING SCORE BOARD. SAVE AND PROTECT DURING CONSTRUCTION. PULL BACK ALL EXISTING ASSOCIATED WIRE AND CABLE TO THE NEXT JUNCTION POINT.
- 2 REMOVE EXISTING EXIT SIGN AND WIRE GUARD. SAVE AND PROTECT DURING CONSTRUCTION. PULL EXISTING WIRE BACK TO THE NEXT JUNCTION POINT.
- 3 REMOVE EXISTING LIGHTING CONTROL DEVICE AND COVER. SAVE AND PROTECT DURING CONSTRUCTION. PULL EXISTING WIRE BACK TO THE NEXT JUNCTION POINT.
- 4 REMOVE EXISTING FIRE ALARM DEVICES AND SAVE AND PROTECT DURING CONSTRUCTION. PULL EXISTING WIRE BACK TO THE NEXT JUNCTION POINT.
- 5 REMOVE EXISTING EXTERIOR LIGHT FIXTURE AND TURN IT OVER TO THE OWNER. PULL EXISTING WIRE BACK TO THE NEXT JUNCTION POINT AND REUSE WITH NEW LIGHTW.
- 6 DISCONNECT AND REMOVE EXISTING RECEPTACLE. PULL BACK EXISTING CIRCUIT TO NEXT JUNCTION TO BE REUSED IN THE NEW LAYOUT.
- 7 DISCONNECT AND REMOVE EXISTING SWITCH BASKETBALL GOAL CONTROL. PULL BACK EXISTING CIRCUIT TO NEXT JUNCTION TO BE REUSED IN THE NEW LAYOUT.
- 8 DISCONNECT EXISTING BASKETBALL GOAL LIGHT AND ALL ASSOCIATED CONTROL.
- 9 INSTALL EXISTING SCORE BOARD ON NEW WALL. RECONNECT TO EXISTING CIRCUIT. PROVIDE AND INSTALL NEW CONDUIT AND BOXES. INSTALL AT SAME HEIGHT AND LOCATION AS THE EXISTING WAS.
- 10 INSTALL EXISTING EXIT SIGN AND WIRE GUARD ON NEW WALL. RECONNECT TO EXISTING CIRCUIT. PROVIDE AND INSTALL NEW CONDUIT AND BOXES. INSTALL AT SAME HEIGHT AND LOCATION AS THE EXISTING WAS.
- 11 INSTALL EXISTING LIGHTING CONTROL AND COVER ON NEW WALL. RECONNECT TO EXISTING CIRCUIT. PROVIDE AND INSTALL NEW CONDUIT AND BOXES. INSTALL AT SAME HEIGHT AND LOCATION AS THE EXISTING WAS.
- 12 INSTALL EXISTING FIRE ALARM DEVICES ON NEW WALL. RECONNECT TO EXISTING CIRCUIT. PROVIDE AND INSTALL NEW CONDUIT AND BOXES. INSTALL AT SAME HEIGHT AND LOCATION AS THE EXISTING WAS.
- 13 PROVIDE AND INSTALL NEW EXTERIOR WALL MOUNTED LIGHT. LIGHTS ARE TO BE INSTALLED TO MATCH THE HEIGHT OF THE EXISTING FIXTURES ON THE BUILDING. CONNECT LIGHTING TO THE EXISTING CIRCUIT AND EXTEND AS NEEDED. LITURON DSKW1 200 700 40K 43M 1M 1/2 PC EZING BSW OR EQUIVA. ARCHITECT IS TO SELECT COLOR AT SHOP DRAWING PHASE.
- 14 INSTALL NEW TAMPER RESISTANT RECEPTABLES ON THE NEW WALL. CONNECT TO EXISTING CIRCUIT.
- 15 PROVIDE AND INSTALL JUNCTION BOX WITH GASKETED COVER PLATE FOR FUTURE SECURITY CAMERA. ROUTE ONE (1) 1-1/4" CONDUIT THROUGH THE WALL AND STUB IT UP INTO THE 2X4 ROOF STRUCTURE.
- 16 RE INSTALL EXISTING BASKETBALL GOAL CONTROL IN NEW WALL. IF ALTERNATE #1 IS NOT THING.
- 17 PROVIDE CONNECTION TO NEW BASKETBALL GOAL LIGHT MOTOR AND INSTALL ALL ASSOCIATED CONTROL PER MANUFACTURER'S SPECIFICATIONS.
- 18 PROVIDE CONNECTION TO NEW BASKETBALL GOAL LIGHT MOTOR AND INSTALL ALL ASSOCIATED CONTROL PER MANUFACTURER'S SPECIFICATIONS. ROUTE NEW CIRCUIT TO A 20 AMP SPACE BREAKER IN THE EXISTING PANEL G.



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ELECTRICAL

PROJECT	2024-52
DATE	12/17/24

REVISIONS

[illegible]

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE, OR IN PART, FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PROPER WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

ELECTRICAL PLANS

E-100

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