

GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA

## LOCATION MAP

EAST FRANKLIN JUNIOR HIGH SCHOOL  
1815 HIGHWAY 89 PHIL CAMPBELL, AL



## VICINITY MAP

A NEW GYM  
EAST FRANKLIN JUNIOR HIGH SCHOOL



## CONTACTS

## OWNER

**Franklin County Board of Education**  
500 North Coffee Avenue  
Russellville, Alabama 35653  
Phone: (256) 332.1360

## CIVIL

**Professional Engineering Consultants**  
822 South McDonough Street  
Montgomery, Alabama 36104  
Phone: (334) 262.7307

## PLUMBING and MECHANICAL

**Zgouvas, Eiring and Associates**  
800 South McDonough Street  
Montgomery, Alabama 36104  
Phone: (334) 263.4406

## FIRE PROTECTION

**Life Saving Designs**  
**Fire Protection Services LLC**  
470 S Fleahop Rd.  
Eclectic, Alabama 36024  
Phone: (334) 558.5584

## ARCHITECTURAL

**Mckee and Associates**  
631 South Hull Street  
Montgomery, Alabama 36104  
Phone: (334) 834.9933

## STRUCTURAL

**Blackburn, Daniels, O'barr Consulting  
Structural Engineers**  
1005 Browns Hill Road  
Lowndesboro, Alabama 36752  
Phone: (334) 265.0206

ELECTRICAL
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**Gunn and Associates**  
3102 Highway 14  
Millbrook, AL 36054  
Phone: (334) 285.1273

# INDEX TO DRAWINGS

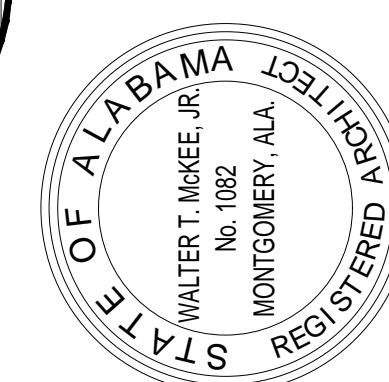
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PHIL CAMPBELL, ALABAMA

**McKEE and ASSOCIATES**  
ARCHITECTS, INC.

ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : COVER SHEET AND INDEX  
TO DRAWINGS

MCKEE JOB # : 21,269

DRAWN BY : AJB

DATE: 9.9.22

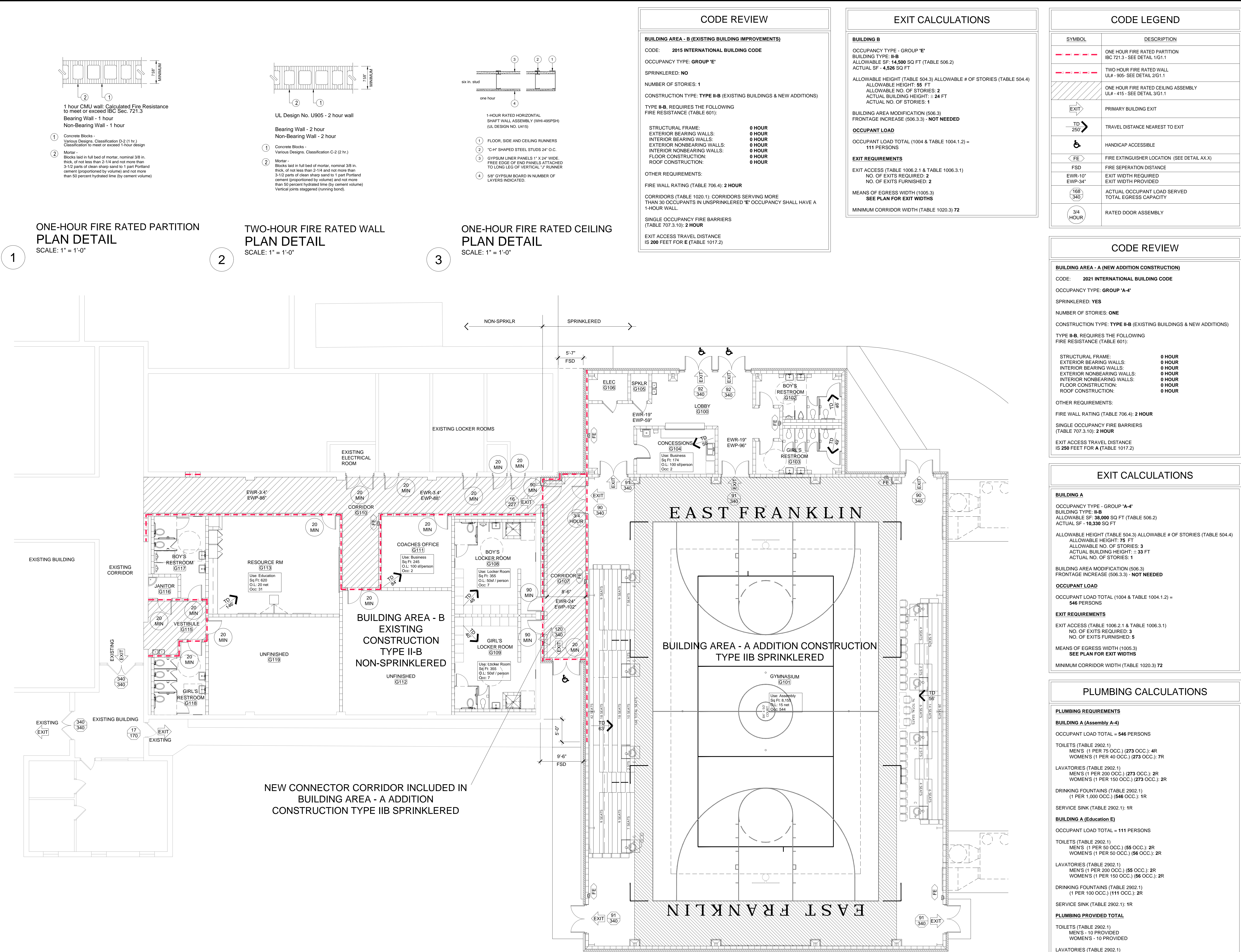
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ARCHITECTS, INC.

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SHEET TITLE : CODE PLAN

MCKEE JOB # : 21.269

DRAWN BY : AJB

DATE : 9.9.22

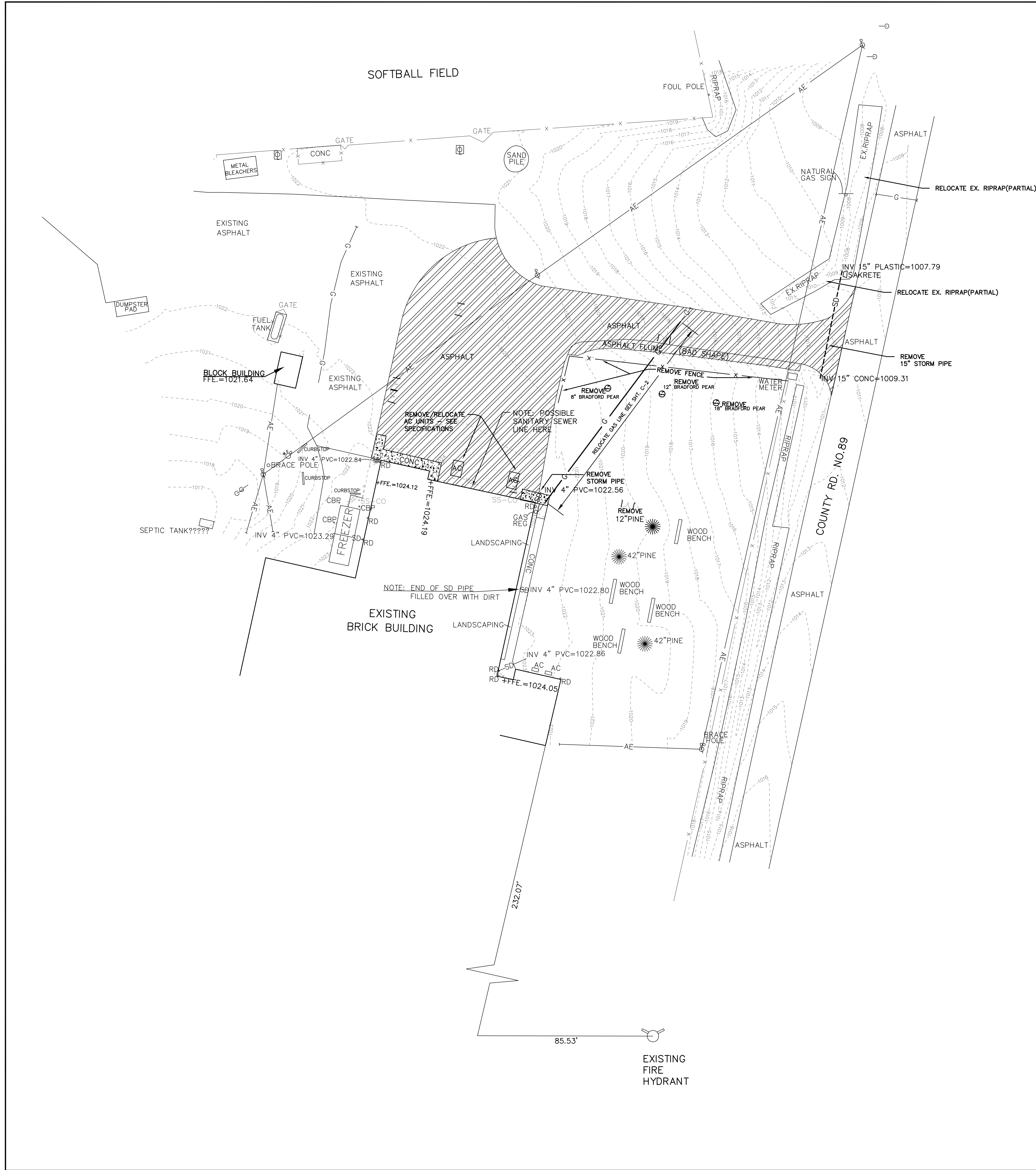
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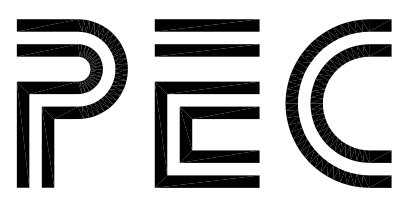
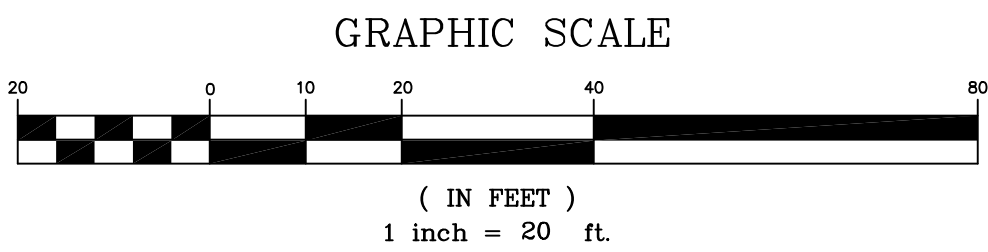




NOTE: HORIZONTAL AND VERTICAL CONTROL BASED ON ALDOT. CORRS. STATION(WEST ZONE).

LEGEND		
DESCRIPTION	EXSITING	TO BE REMOVED
BUILDING		
CONCRETE PAVEMENT		
ASPHALT PAVEMENT		
SANITARY SEWER MANHOLE		
SANITARY SEWER LINE		
GAS METER		
GAS LINE		
STORM MANHOLE		
GRATE INLET		
STORM DRAIN LINE		
CLEAN-OUT		
WATER LINE		
ELECTRIC (AERIAL)		
CONTOUR		
WATER METER		
FIRE HYDRANT		
POWER POLE		
LIGHT POLE		
WATER VALVE		
GUY WIRE		
TRAFFIC SIGN		
BUMPER POST		
METAL COLUMN		
FLOOD LIGHT		
BUSH		
TREE LINE		
TREE		
IRON PIN FOUND		
FENCE		

- NOTES:
1. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ALL OF THE UNDERGROUND UTILITIES.



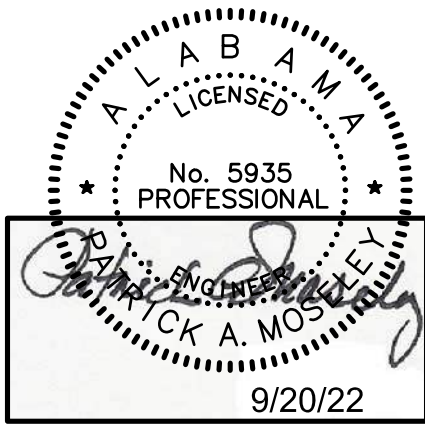
PROFESSIONAL ENGINEERING CONSULTANTS, LLC  
822 South McDonough Street  
Montgomery, Alabama 36104  
Phone: (334) 262-7307  
Fax: (334) 262-7309

PEC JOB # 22-046TOPO

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McKEE and ASSOCIATES  
ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9833



SHEET TITLE : SITE DEMOLITION PLAN  
MCKEE JOB # : 21.269  
DRAWN BY : LB  
DATE : 9.20.22  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : C-1



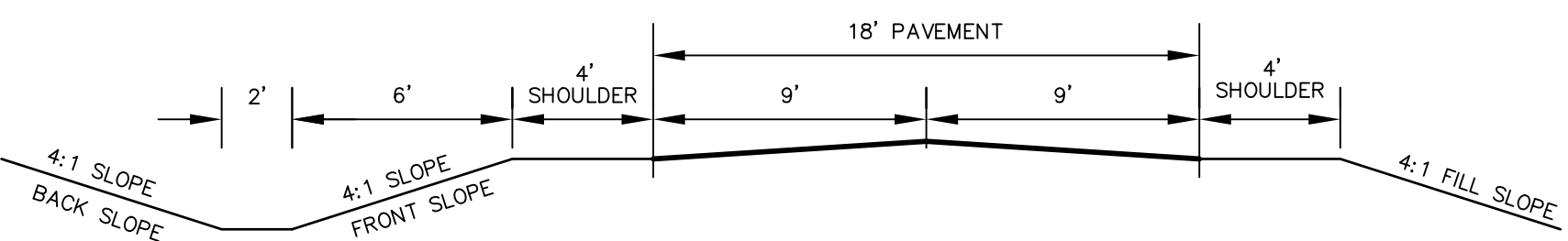
NOTE: HORIZONTAL AND VERTICAL CONTROL BASED ON  
ALDOT. CORRS. STATION(WEST ZONE).

LEGEND

DESCRIPTION	EXISTING	NEW
BUILDING		
CURB		
CURB & GUTTER		
CONCRETE PAVEMENT		
ASPHALT PAVEMENT		
SANITARY SEWER MANHOLE		
SANITARY SEWER LINE		
GAS METER		
GAS LINE		
STORM MANHOLE		
GRATE INLET		
SPOT ELEVATION		+1008
CLEAN-OUT		
WATER LINE		
ELECTRIC (AERIAL)		
CONTOUR		451
WATER METER		
FIRE HYDRANT		
POWER POLE		
LIGHT POLE		
WATER VALVE		
GUY WIRE		
TRAFFIC SIGN		
BUMPER POST		
METAL COLUMN		
FLOOD LIGHT		
BUSH		
TREE LINE		
TREE		
IRON PIN FOUND		
FENCE		

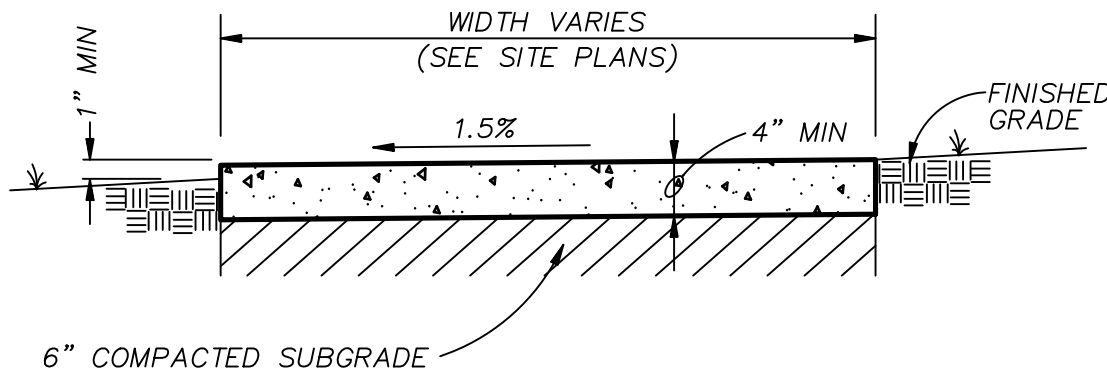
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TYPICAL CONCRETE  
STRAIGHT CURB  
NTS

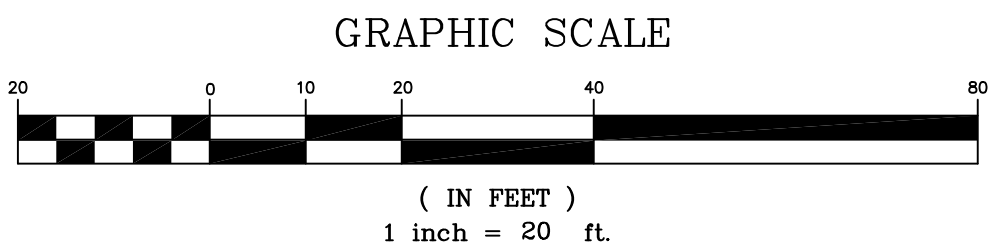


TYPICAL SECTION  
THRU NEW DRIVE  
SCALE: 1"=5'

TYPICAL CONCRETE  
CURB & GUTTER  
NTS

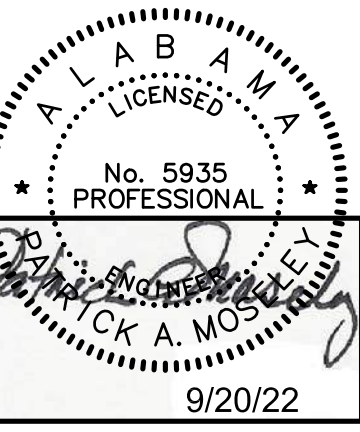


SIDEWALK DETAIL  
NTS



PEC

PROFESSIONAL ENGINEERING CONSULTANTS, LLC  
822 South McDonough Street  
Montgomery, Alabama 36104  
Phone: (334) 262-7307  
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PEC JOB # 22-046TOPO



SHEET TITLE: SITE LAYOUT  
PLAN

MCKEE JOB #: 21.269

XXX

DRAWN BY: LB

DATE: 9.20.22

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO.: C-2

TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
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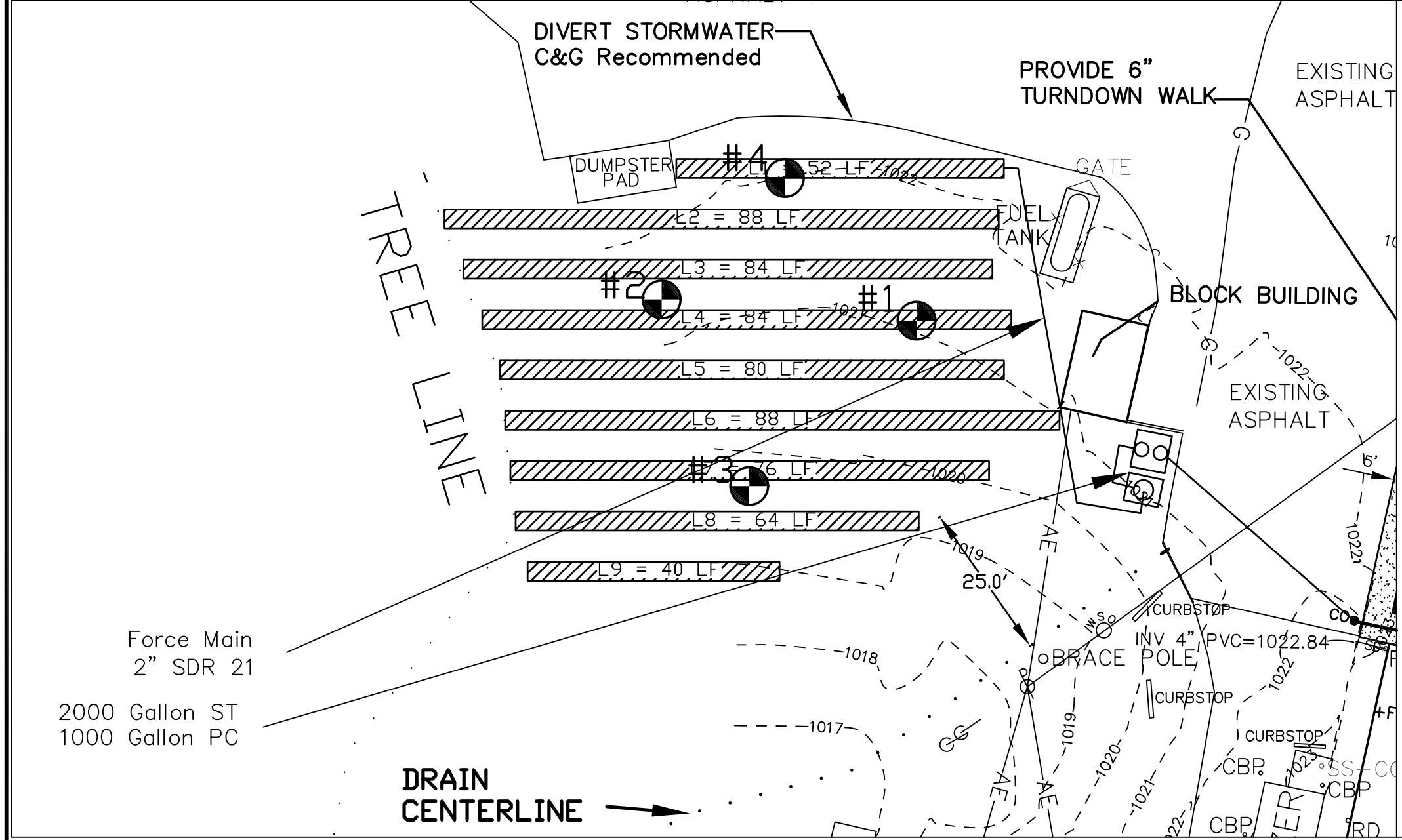
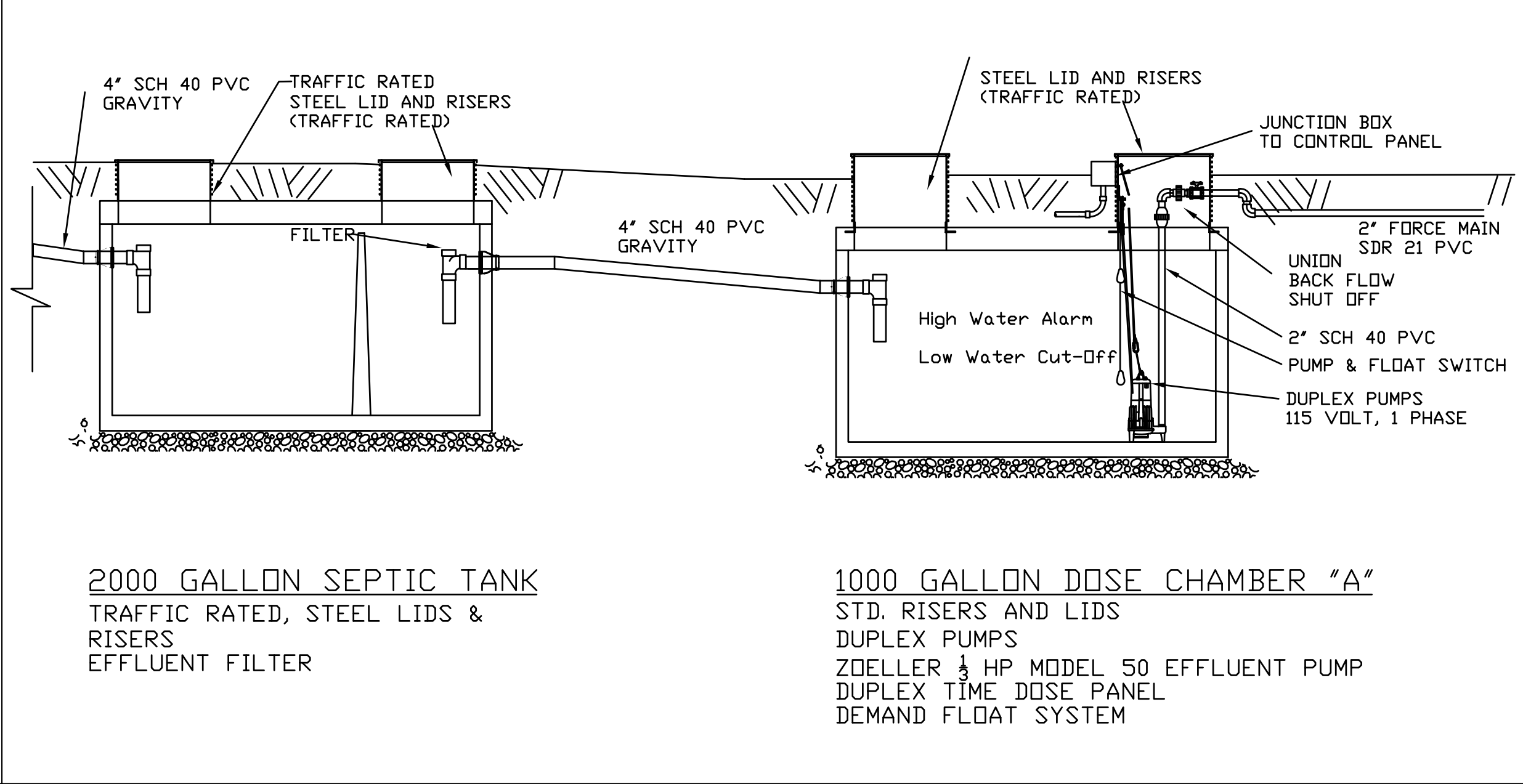
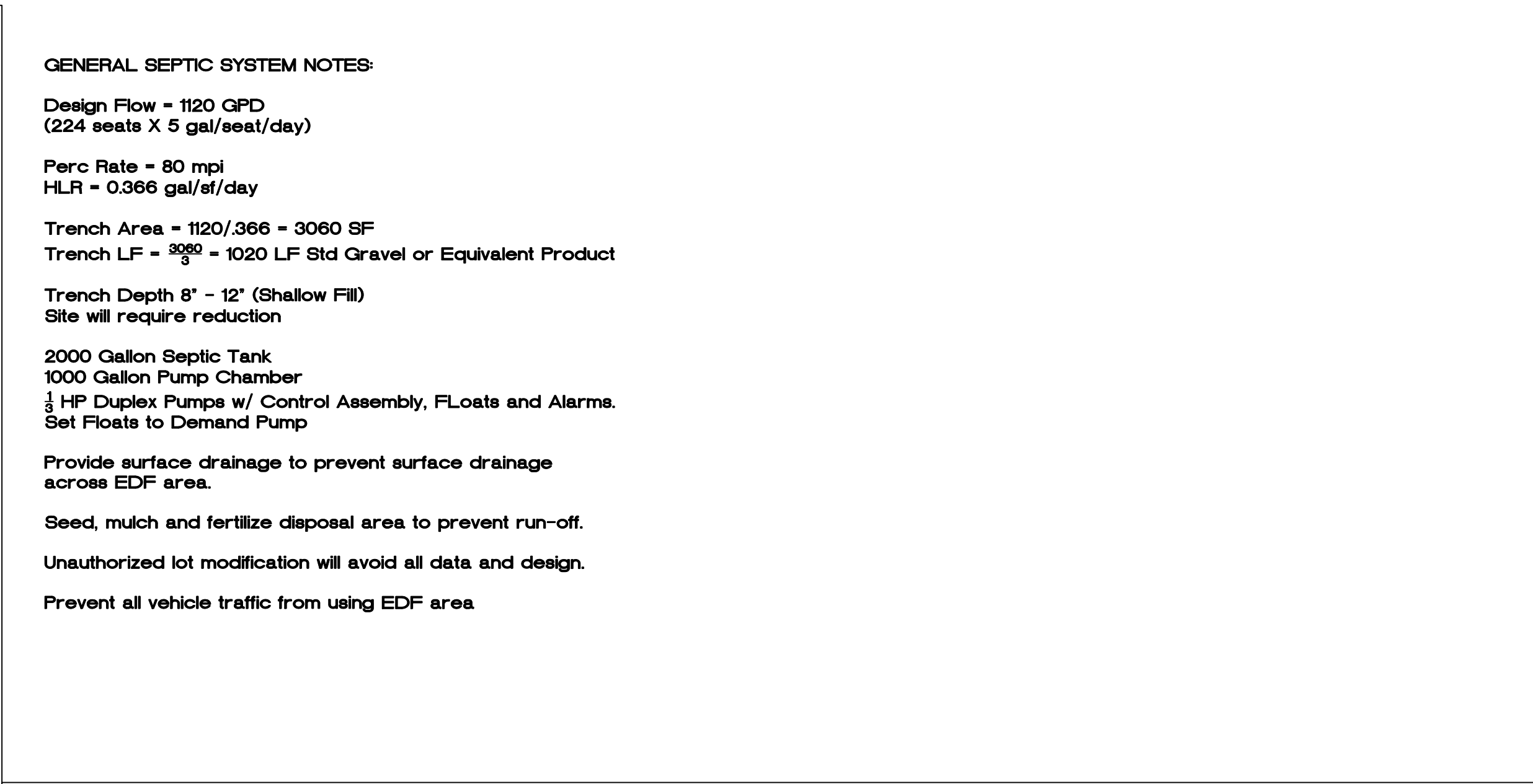
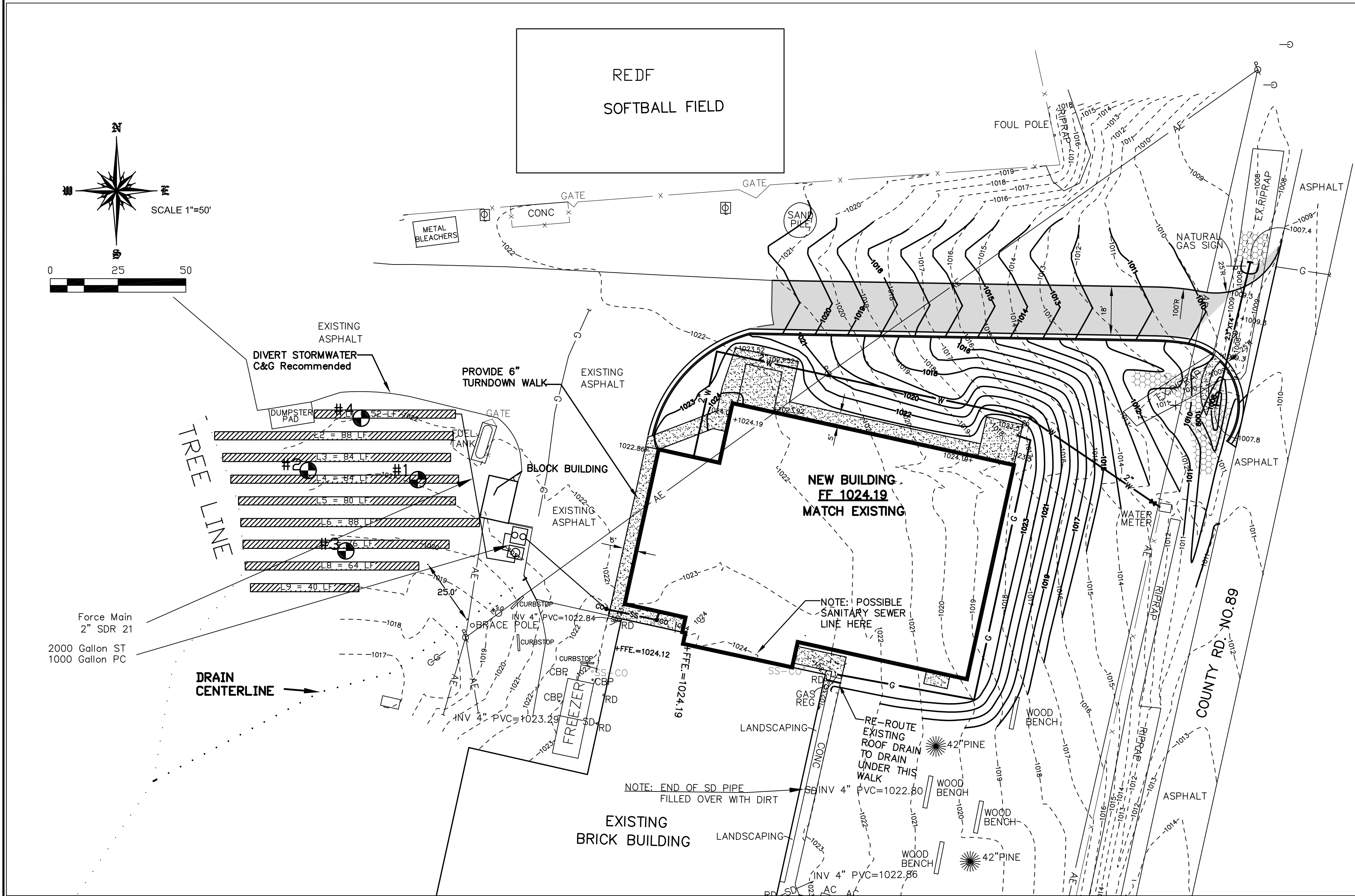
PHIL CAMPBELL, ALABAMA

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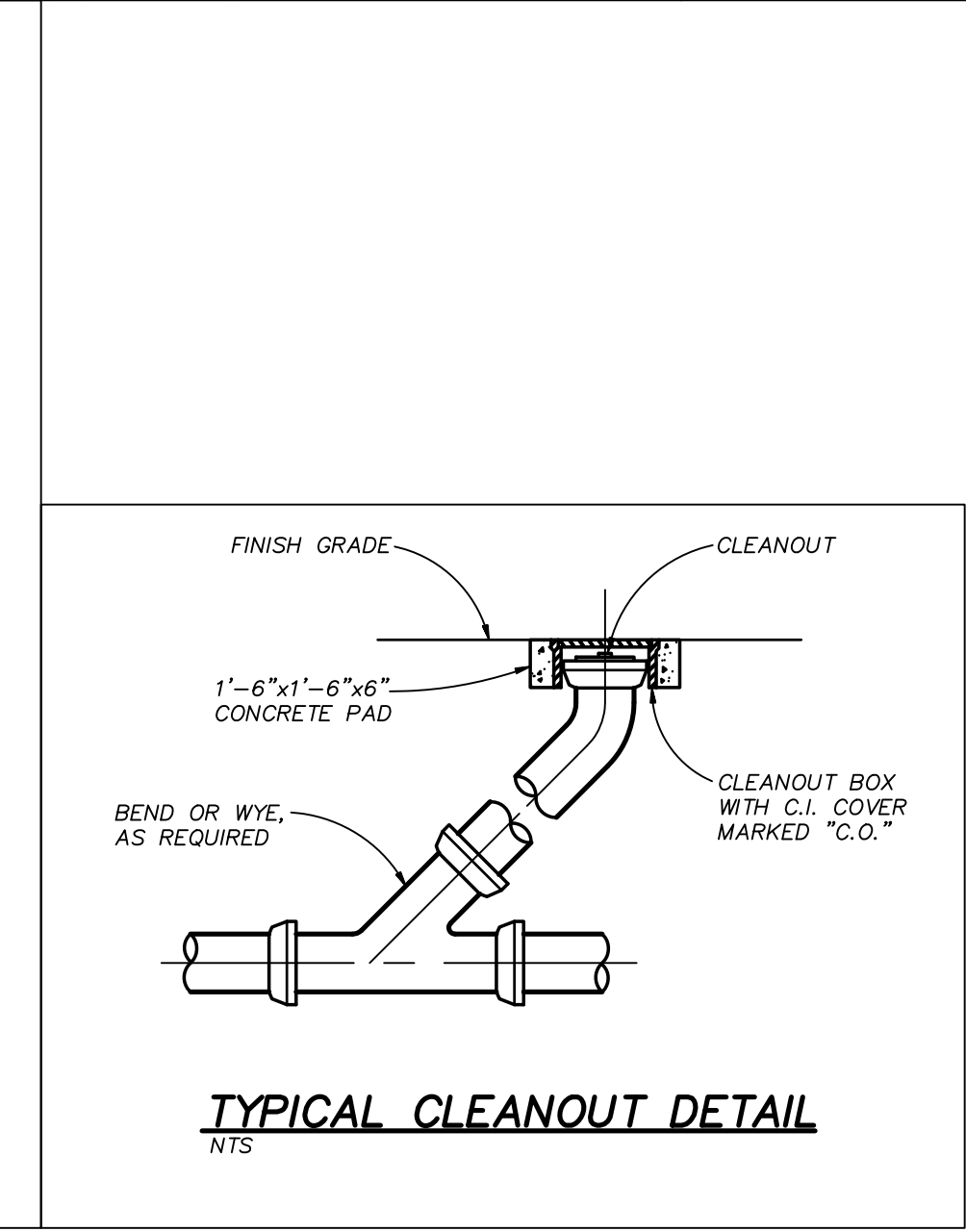
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East Franklin Gym  
Onsite System Design



SEPTIC SYSTEM LINE LENGTH (LF)	
LINE #	LINE LENGTH (LF)
L1	52 LF
L2	88 LF
L3	84 LF
L4	84 LF
L5	80 LF
L6	88 LF
L7	76 LF
L8	64 LF
L9	40 LF
TOTAL LINEAR FOOTAGE = 656LF	



GENERAL SEPTIC SYSTEM NOTES:  
Design Flow = 1120 GPD  
(224 seats X 5 gal/seat/day)  
Perc Rate = 80 mpi  
HLR = 0.966 gal/sf/day  
Trench Area = 1120/366 = 3060 SF  
Trench LF = 3060 / 3 = 1020 LF Std Gravel or Equivalent Product  
Trench Depth 8' - 12' (Shallow Fill)  
Site will require reduction  
2000 Gallon Septic Tank  
1000 Gallon Pump Chamber  
1 HP Duplex Pumps w/ Control Assembly, Floats and Alarms.  
Set Floats to Demand Pump  
Provide surface drainage to prevent surface drainage across EDF area.  
Seed, mulch and fertilizer disposal area to prevent run-off.  
Unauthorized lot modification will avoid all data and design.  
Prevent all vehicle traffic from using EDF area

Nichols Environmental Consulting, LLC  
P.O. Box 640543  
Pike Road, AL 36064  
334-224-6187  
necsolllc@gmail.com  
www.necsolllc.com

PROJECT:  
East Franklin Gym  
Franklin County, Alabama  
CEP 2 Small Flow Design

DATE: 9/20/2022  
JOB NUMBER: 1302  
FILE NAME: Site Septic Plan  
DRAWN BY: RA  
CHECKED BY:

SHEET  
1 OF 1

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SHEET TITLE :

McKee JOB # : 21.269

DRAWN BY : RA

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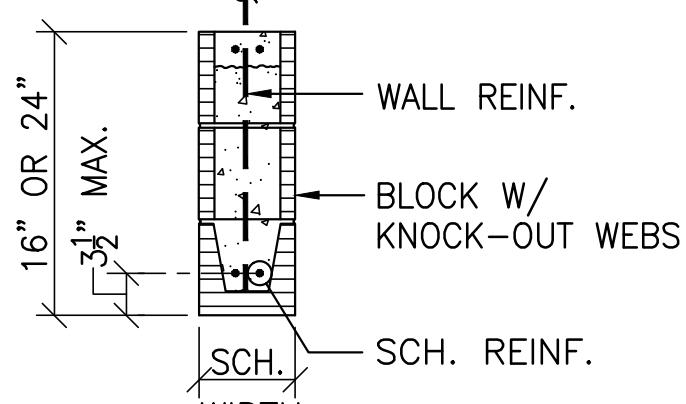
C-3



LINTEL SCHEDULE					
MARK OR LOCATION	MAX. SPAN	TYPE	SIZE	REINFORCEMENT	REMARKS
BRICK	3'-4"	STEEL ANGLE	L4x4x1/4	-----	BEAR 8" EACH END
BRICK	6'-4"	STEEL ANGLE	L6x4x3/8	-----	LONG LEG VERTICAL BEAR 8" EACH END
BRICK	8'-4"	STEEL ANGLE	L7x4x3/8	-----	LONG LEG VERTICAL BEAR 12" EACH END
8"CMU	3'-4"	U-BLOCK	8"x16"x8"	#5 TOP & BOTTOM	8" HIGH U-BLOCK
8"CMU	6'-4"	U-BLOCK	8"x16"x16"	2-#5 TOP & BOTTOM	16" HIGH U-BLOCK
8"CMU	8'-8"	U-BLOCK	8"x16"x16"	2-#5 TOP & BOTTOM	16" HIGH U-BLOCK
8"CMU	10'-8"	U-BLOCK	8"x16"x24"	2-#5 TOP & BOTTOM	24" HIGH U-BLOCK

NOTES:

- 1 - BEAR 8" HIGH U-BLOCKS 8" EACH END & 16" & 24" HIGH U-BLOCKS 16" EACH END.  
2 - FILL CELLS W/ CONCRETE FULL HEIGHT @ U-BLOCK BEARING, FOR ENTIRE LENGTH OF BEARING & REINF. EA. CELL W/ BAR SAME SIZE AS WALL REINFORCING. VERTICAL REINFORCING SHALL BE CONT. THRU LINTEL @ BEARING.  
3 - FILL CELLS OF U-BLOCK LINTEL TO FULL HT. IN ONE POUR.



16" & 24" HIGH U-BLOCK

FOOTING SCHEDULE			
MARK	SIZE	DEPTH	REINFORCEMENT
(A)	4'-0" x 4'-0"	12"	5-#5 EA. WAY TOP 5-#5 EA. WAY BOT.
(B)	5'-6" x 5'-6"	12"	6-#5 EA. WAY TOP 6-#5 EA. WAY BOT.
(C)	7'-0" x 7'-0"	14"	8-#5 EA. WAY TOP 8-#5 EA. WAY BOT.

- FOUNDATION:**
- THE BEARING STRATA OF ALL FOOTINGS AND GRADE BEAMS SHALL BE INSPECTED AND APPROVED BY THE SOILS TESTING LABORATORY PRIOR TO PLACING THE REINFORCING STEEL AND CONCRETE.
  - ALL FOOTINGS SHALL BEAR ON AN UNDISTURBED SOIL STRATA OR COMPACTED FILL CAPABLE OF SUSTAINING THE LOADS.
  - FOOTINGS WERE DESIGNED FOR AN ALLOWABLE SOIL BEARING OF P = 1500 PSF. THE TESTING AGENCY SHALL VERIFY THAT THE SOILS ARE CAPABLE OF SUSTAINING 1500 PSF FROM CONCRETE PLACEMENT.
  - ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
  - ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND. CONCRETE BLOCK AND BROKEN TILE SHALL NOT BE USED. CONCRETE OR CLAY BRICK MAY BE USED.
  - DOWEL ALL FOOTINGS AND WALLS WHERE THEY ABUT WITH SAME STEEL AS VERTICAL.
  - PROVIDE PREFORMED EXPANSION JOINT WHERE SHOWN.
  - IN FOOTINGS PROVIDE CORNER BARS AT ALL EXTERIOR BUILDING CORNERS. DO NOT BACK FILL BEHIND FOUNDATION WALLS UNTIL TOP AND BOTTOM SLABS HAVE BEEN POURED AND ATTAINED THEIR DESIGN STRENGTHS.
  - BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.
  - BACK FILL BEHIND ALL RETAINING WALLS AND BASEMENT WALLS SHALL BE AN APPROVED GRANULAR MATERIAL.

- CONCRETE:**
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF F<sub>c</sub> = 3000 PSI AND A MAXIMUM WATER-CEMENT RATIO OF 0.53. ALL CONCRETE FOR EXTERIOR APPLICATIONS SHALL CONTAIN ENTRAINED AIR. SEE SPECS FOR ADDITIONAL INFORMATION.
  - REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
  - WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
  - UNLESS NOTED OTHERWISE PROTECTIVE COVERING OF REINFORCEMENT SHALL BE AS FOLLOWS ( SEE DETAILS ) : FOOTINGS AND GRADE BEAMS 3" CLEAR BOTTOM AND SIDES, 1 1/2" CLEAR TOP. CONCRETE SLABS 3/4" CLEAR, WALLS 1 1/2" CLEAR SIDES, BEAMS 1 1/2" CLEAR TO STIRRUPS. CONCRETE COLUMNS 1 1/2" CLEAR TO TIES.
  - LAP ALL CONCRETE WALL VERTICAL REINFORCING AND CONCRETE BEAM HORIZONTAL REINFORCING WITH CLASS B LAP SPLICES. LAP ALL OTHER CONTINUOUS BARS WITH CLASS A SPLICES UNLESS NOTED OTHERWISE. PLACING PLANS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST "A.C.I. DETAILING MANUAL".
  - STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
  - DO NOT RUN CONDUITS, RACEWAYS, OR PIPES IN CONCRETE SLABS, BEAMS, OR COLUMNS WITHOUT SPECIFIC APPROVAL FROM BLACKBURN DANIELS O'BARR.

- MASONRY:**
- PROVIDE MASONRY HORIZONTAL JOINT REINFORCEMENT 16" O.C. VERTICAL IN ALL CONCRETE BLOCK WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
  - WHERE CONCRETE OR STEEL BEAMS BEAR ON CONCRETE BLOCK WALLS, BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCED WITH A #5 EACH CELL UNLESS NOTED OR DETAILED OTHERWISE.
  - CONCRETE OR GROUT FOR BLOCK FILL SHALL HAVE 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. HEIGHT OF LIFT WHEN FILLING CELLS SHALL NOT EXCEED 4'-0".
  - CONCRETE OR GROUT FILL FOR C.M.U. SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF F'<sub>c</sub> = 3000 PSI. ON 16" AND DEEPER U-BLOCKS, FILL CELLS FULL HEIGHT OF LINTEL AT SAME TIME.
  - ANCHOR ALL MASONRY WALLS TO STEEL COLUMNS WITH STRAP ANCHORS AT 16" O.C. VERTICALLY UNLESS SHOWN OTHERWISE.
  - UNLESS INDICATED OTHERWISE PROVIDE KEYED RUBBER MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 25'-4". JOINT SHALL BE DISCONTINUOUS AT BOND BEAM.
  - PROVIDE REINFORCING BAR SUPPORTS TO CENTER VERTICAL REINFORCING IN MASONRY WALLS.
  - PROVIDE 48 DIAMETER LAP SPLICE IN VERTICAL MASONRY REINFORCING.
  - PROVIDE CORNER BARS IN U-BLOCK BOND BEAMS AT CORNERS, TYPICAL.
  - ALL CMU SHALL BE PLACED IN A RUNNING BOND PATTERN UNLESS NOTED OTHERWISE.
  - VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH BOND BEAMS AND LINTELS (CUT OUT OR NOTCH BOTTOM OF U-BLOCKS AS REQUIRED --- DO NOT SUBSTITUTE BLOCK WITH KNOCK-OUT WEBS WHERE STANDARD U-BLOCK IS INDICATED). FOR BOND BEAMS AT TOP OF WALL, EXTEND VERTICAL REINFORCING TO 1" CLEAR TOP OF BOND BEAM.
  - ALL CMU DOWELS SHALL BE SAME SIZE AND SPACING AS THE VERTICAL REINFORCEMENT.

- STRUCTURAL STEEL:**
- ALL STRUCTURAL STEEL W AND WT SHAPES SHALL CONFORM TO ASTM A992 (GRADE 50). OTHER SHAPES SHALL CONFORM TO ASTM, A36, LATEST EDITION (EXCEPT STEEL JOISTS AND TUBE SECTIONS).
  - STRUCTURAL STEEL TUBE SECTIONS SHALL CONFORM TO ASTM A500, GRADE B, F<sub>y</sub> = 46.0 KSI.
  - HEADED STUDS SHALL BE TYPE B SHEAR CONNECTORS (F<sub>u</sub> = 65 KSI).
  - STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
  - THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWINGS DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
  - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. USE 3/4 INCH DIAMETER MINIMUM. UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE TIGHTENED AS FULLY PRETENSIONED BEARING CONNECTIONS.
  - CONNECTIONS NOT SHOWN ON DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR. WHERE POSSIBLE USE DOUBLE ANGLE CONNECTIONS. USE MAXIMUM NUMBER OF BOLTS FOR DEPTH OF BEAM WITH SINGLE ROW OF BOLTS. WHERE DOUBLE ANGLE CONNECTIONS ARE NOT POSSIBLE, FABRICATOR SHALL DESIGN CONNECTION FOR CAPACITY EQUIVALENT TO DBL-ANGLE CONNECTION WITH MAX NO. BOLTS UNLESS DETAILED OTHERWISE.
  - FOR DBL-ANGLE CONNECTIONS, MIN ANGLE THICKNESS SHALL BE 5/16" FOR 3/4 INCH DIAMETER BOLTS AND 3/8" FOR 7/8 INCH DIAMETER BOLTS AND LARGER.
  - UNLESS SHOWN OTHERWISE PROVIDE 1/2 X 7 1/2 X 7 1/2 BEARING PLATES ON 1 INCH GROUT WITH 2-3/4" DIAMETER ANCHOR BOLTS UNDER ALL STEEL BEAMS THAT BEAR ON MASONRY WALLS.
  - ANY MEMBER CALLED OUT TO BE BENT TO RADIUS SHALL BE FABRICATED OUT OF PLATE WITH EQUIVALENT SECTION PROPERTIES IF BENDING TO RADIUS IS IMPRACTICAL.

- PRE-ENGINEERED METAL BUILDING:**
- THE COMPLETE DESIGN OF METAL BUILDING INCLUDING ALL COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS SHALL BE ACCOMPLISHED BY THE BUILDING MANUFACTURER.
  - THE DESIGN SHALL BE MADE BY A REGISTERED ENGINEER, REGISTERED IN THE STATE OF ALABAMA AND HE SHALL AFFIX HIS REGISTRATION NUMBER TO ALL SHOP DRAWINGS AND CALCULATIONS.
  - THE BUILDING AND ALL OF ITS COMPONENTS SHALL BE DESIGNED FOR THE FOLLOWING DEAD AND LIVE LOADS:
    - ACTUAL WEIGHT OF STEEL STRUCTURE.
    - 10 PSF DEAD (COLLATERAL) LOAD IN ADDITION TO ACTUAL WEIGHT OF STRUCTURE AND ROOFING MATERIALS.
    - 20 PSF ROOF LIVE LOAD.
    - ANY ADDITIONAL LOADS AND REACTIONS THAT ARE SHOWN ON THE DRAWINGS.
    - WIND LOADING AS REQUIRED BY INTERNATIONAL BUILDING CODE. NO LIVE LOAD REDUCTION SHALL BE TAKEN FOR THE DESIGN OF THE RIGID FRAMES.
  - WHERE MEMBER SIZES AND GAGES ARE SHOWN THEY SHALL BE CONSIDERED A MINIMUM SIZE. THE MANUFACTURER SHALL NOT USE SMALLER SIZE OR LIGHTER GAGES, OR OMIT FRAMING WHERE INDICATED. HE SHALL USE ONLY LARGER SIZE AND HEAVIER GAGES IF HIS DESIGN INDICATES THESE ARE REQUIRED TO MEET THE LOADING CRITERIA.
  - THE DEFLECTION OF GIRTS SHALL BE LIMITED TO 1/240 OF THE SPAN AND DEFLECTION OF PURLINS SHALL BE LIMITED TO 1/240 OF THE SPAN. DEFLECTION OF RIGID FRAMES AND END WALL COLUMNS SHALL BE LIMITED TO 1/240 OF THE SPAN. DEFLECTIONS SHALL BE BASED ON TOTAL LOAD (DEAD PLUS LIVE LOADS). TOTAL RIGID FRAME DRIFT SHALL BE LIMITED TO H/240, WHERE H IS EQUAL TO THE EAVE HEIGHT.
  - COLUMN BASES SHALL BE DESIGNED AS PINNED CONNECTIONS. MOMENTS AT COLUMN BASE PLATES ARE NOT ACCEPTABLE.
  - LOCATE PORTAL FRAMES ONLY WHERE INDICATED ON PLAN. PORTAL FRAME COLUMNS SHALL BE NESTED TIGHT TO WEB OF RIGID FRAME COLUMN.

- BUILDING CANOPIES:**
- THE COMPLETE DESIGN OF THE CANOPIES INCLUDING ALL COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS SHALL BE ACCOMPLISHED BY THE CANOPY MANUFACTURER.
  - THE DESIGN SHALL BE MADE BY A REGISTERED ENGINEER, REGISTERED IN THE STATE OF ALABAMA AND HE SHALL AFFIX HIS REGISTRATION NUMBER TO ALL SHOP DRAWINGS AND CALCULATIONS.

- CODES:**
- ALL PARTS SHALL BE FURNISHED AND ERCTED ACCORDING TO THE APPLICABLE CODES AND SPECIFICATIONS OF THE FOLLOWING:
- |   |       |
|---|-------|
| AMERICAN CONCRETE INSTITUTE (ACI)               |       |
| AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) |       |
| AMERICAN WELDING SOCIETY (AWS)                  |       |
| OSHA STEEL ERECTION STANDARD (OSHA)             |       |
| INTERNATIONAL BUILDING CODE (IBC 2015)          | (ICC) |

- DESIGN LIVE LOADS:**
- ROOF.....20 PSF.
- RISK CATEGORY (PER IBC 2015/ASCE 7-10).....III
- WIND.....INTERNATIONAL BUILDING CODE (PER ASCE 7-10).....120 MPH
- ULTIMATE DESIGN WIND SPEED (V<sub>ult</sub>).....120 MPH
- NOMINAL DESIGN WIND SPEED (V<sub>asd</sub>).....93 MPH
- WIND EXPOSURE.....C
- INTERNAL PRESSURE COEFFICIENTS.....+/-0.18

- COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES:**
- NOTE: MULTIPLY ALL VALUES SHOWN BELOW BY 0.6 TO GET ALLOWABLE DESIGN PRESSURES.
- ROOF/TRIBUTARY AREA A = 10 SF
- ZONE 1: -49.7PSF/31.3PSF
- ZONE 2: -86.5PSF/31.3PSF
- ZONE 3: -128.0PSF/31.3PSF
- WALL/TRIBUTARY AREA A = 10 SF
- ZONE 4: -58.9PSF/54.3PSF
- ZONE 5: -72.7PSF/54.3PSF
- CORNER ZONE = 7.5 FT

- SEISMIC.....INTERNATIONAL BUILDING CODE (PER ASCE 7-10)
- SEISMIC IMPORTANCE FACTOR.....I=1.25
- MAPPED SPECTRAL ACCELERATION (SHORT-TERM),S<sub>s</sub>=0.264
- MAPPED SPECTRAL ACCELERATION (1-SECOND).....S<sub>1</sub>=0.128
- SITE CLASS.....D
- SHORT-PERIOD SPECTRAL RESPONSE ACCEL.....S<sub>ds</sub>=0.28g
- 1-SECOND SPECTRAL RESPONSE ACCEL.....S<sub>d1</sub>=0.196g
- SEISMIC DESIGN CATEGORY.....C
- SEISMIC FORCE-RESISTING SYSTEM.....CMU SHEAR WALLS
- DESIGN BASE SHEAR (ULTIMATE).....38k
- SEISMIC RESPONSE COEFFICIENT.....C<sub>s</sub>=0.176
- RESPONSE MODIFICATION FACTOR.....R=2
- ANALYSIS PROCEDURE.....ASCE 7 (SECT 12.8)

- SNOW.....INTERNATIONAL BUILDING CODE
- GROUND SNOW LOAD.....Pg=10 PSF

- SPECIAL INSPECTIONS**
- ALL SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF THE IBC 2015 SHALL BE PERFORMED BY A DESIGNATED TESTING AGENCY OR AGENCIES RESPONSIBLE FOR SPECIAL INSPECTIONS.

- SEISMIC REQUIREMENTS FOR SPECIAL INSPECTIONS:**
- THE FOLLOWING STRUCTURAL COMPONENTS ARE DESIGNATED AS SEISMIC SYSTEMS AND/OR PART OF THE SEISMIC-FORCE-RESISTING SYSTEM OF THE BUILDING AND ARE SUBJECT TO THE REQUIREMENTS OF SECTIONS 1705.12 AND 1705.13 OF IBC 2015 AND PROJECT SPECIFICATIONS:
    - BRACING
    - SHEAR WALLS (INCL. ANCHORAGE TO FOUNDATION)THESE SPECIFIC COMPONENTS ARE IN ADDITION TO ALL GENERAL COMPONENTS LISTED IN SECTIONS 1705.12 AND 1705.13 OF IBC 2015 AND ARE SUBJECT TO ALL SPECIAL INSPECTIONS AND TESTING AS REQUIRED BY CHAPTER 17 OF IBC 2015, PROJECT SPECIFICATIONS, AND SCHEDULE OF SPECIAL INSPECTIONS. SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED AS PER THE STATEMENT OF SPECIAL INSPECTIONS.
  - OTHER ARCHITECTURAL, MECHANICAL, OR ELECTRICAL COMPONENTS AND THEIR ANCHORAGES MAY ALSO BE DESIGNATED AS SEISMIC SYSTEMS. SEE OTHER DISCIPLINE'S DRAWINGS AND SPECIFICATIONS.
  - ALL SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE IBC 2015 SHALL BE PERFORMED. REFER TO TABLES SHOWN IN CHAPTER 17 FOR ALL APPLICABLE COMPONENTS THAT REQUIRE SPECIAL INSPECTIONS.

- WIND REQUIREMENTS FOR SPECIAL INSPECTIONS:**
- THE FOLLOWING STRUCTURAL COMPONENTS ARE DESIGNATED AS WIND SYSTEMS AND/OR PART OF THE MAIN WINDFORCE-RESISTING SYSTEM OF THE BUILDING AND ARE SUBJECT TO THE REQUIREMENTS OF SECTION 1705.11 OF IBC 2015 AND PROJECT SPECIFICATIONS:
    - ROOF DIAPHRAGM SYSTEM AND ATTACHMENT
    - SHEAR WALL ANCHORAGE TO FOUNDATIONTHESE SPECIFIC COMPONENTS ARE IN ADDITION TO ALL GENERAL COMPONENTS LISTED IN SECTION 1705.11 OF IBC 2015 AND ARE SUBJECT TO ALL SPECIAL INSPECTIONS AND TESTING AS REQUIRED BY CHAPTER 17 OF IBC 2015, PROJECT SPECIFICATIONS, AND SCHEDULE OF SPECIAL INSPECTIONS. SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED AS PER THE STATEMENT OF SPECIAL INSPECTIONS.
  - OTHER ARCHITECTURAL COMPONENTS AND THEIR ANCHORAGES MAY ALSO BE DESIGNATED AS WIND-RESISTING COMPONENTS. SEE OTHER DISCIPLINE'S DRAWINGS AND SPECIFICATIONS.
  - ALL SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE IBC 2015 SHALL BE PERFORMED. REFER TO TABLES SHOWN IN CHAPTER 17 FOR ALL APPLICABLE COMPONENTS THAT REQUIRE SPECIAL INSPECTIONS.

SHEET TITLE : GENERAL NOTES AND SCHEDULES

MCKEE JOB # : 21.269

DRAWN BY : RAS

DATE: 09.09.2022

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. :

S0.1

GYM ADDITION

TO

EAST FRANKLIN JUNIOR HIGH SCHOOL

FOR THE

FRANKLIN COUNTY BOARD OF EDUCATION

PHIL CAMPBELL, ALABAMA

MCKEE and ASSOCIATES

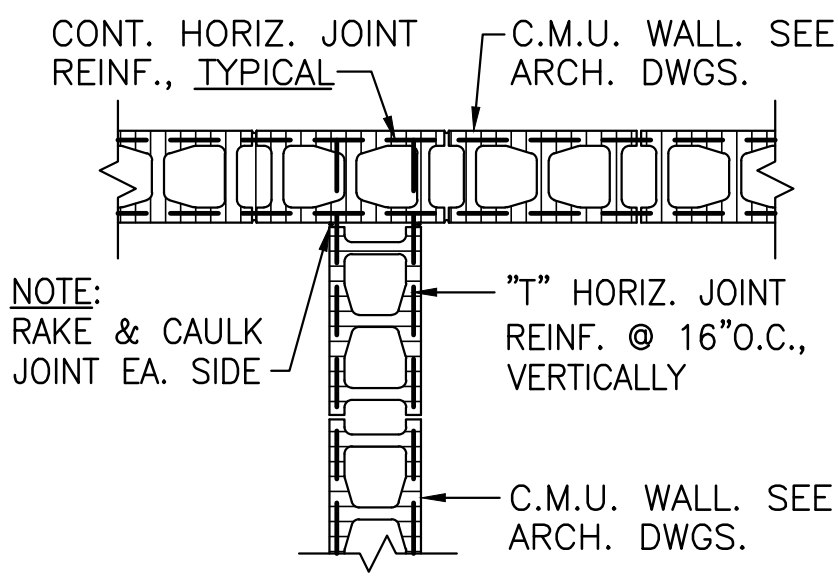
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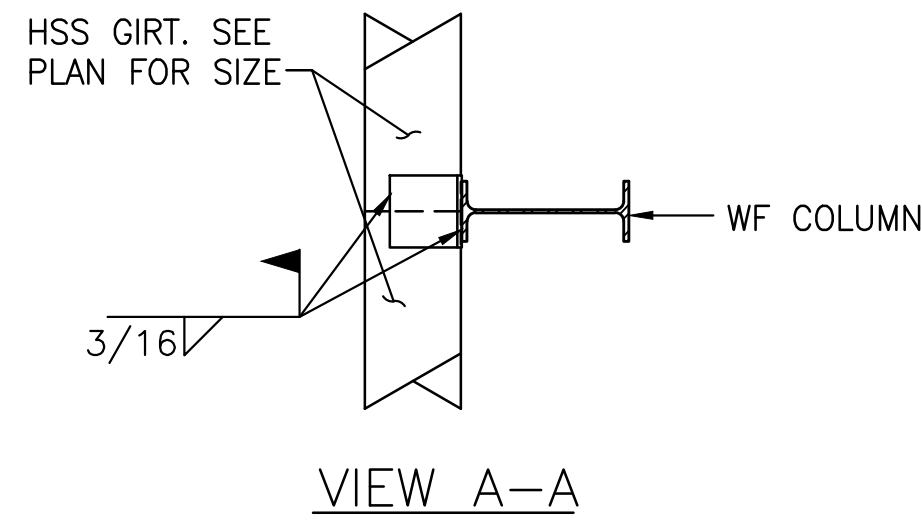
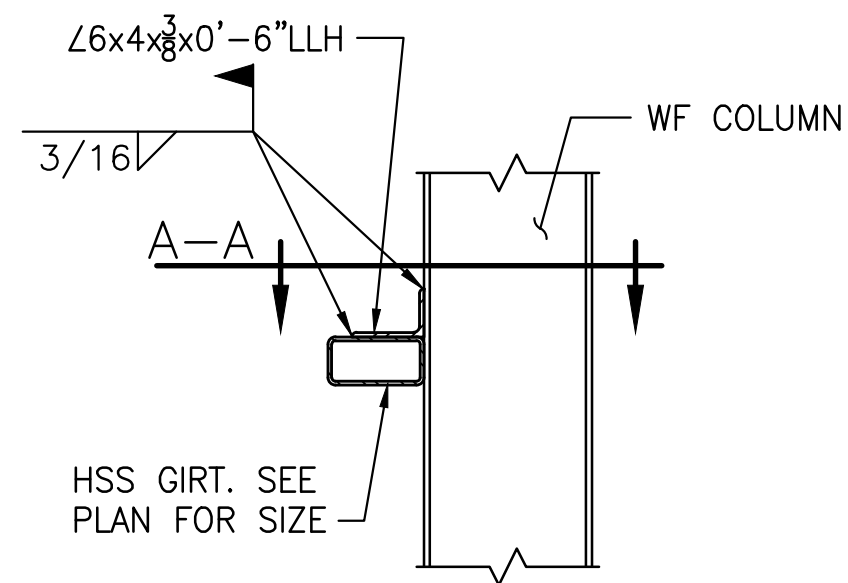
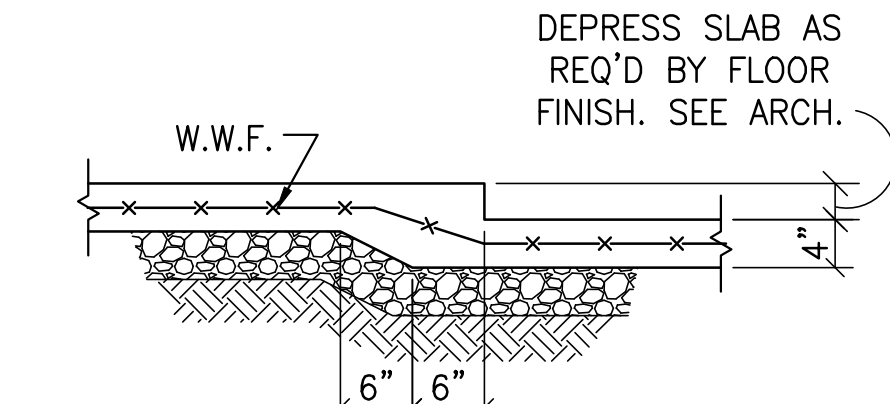
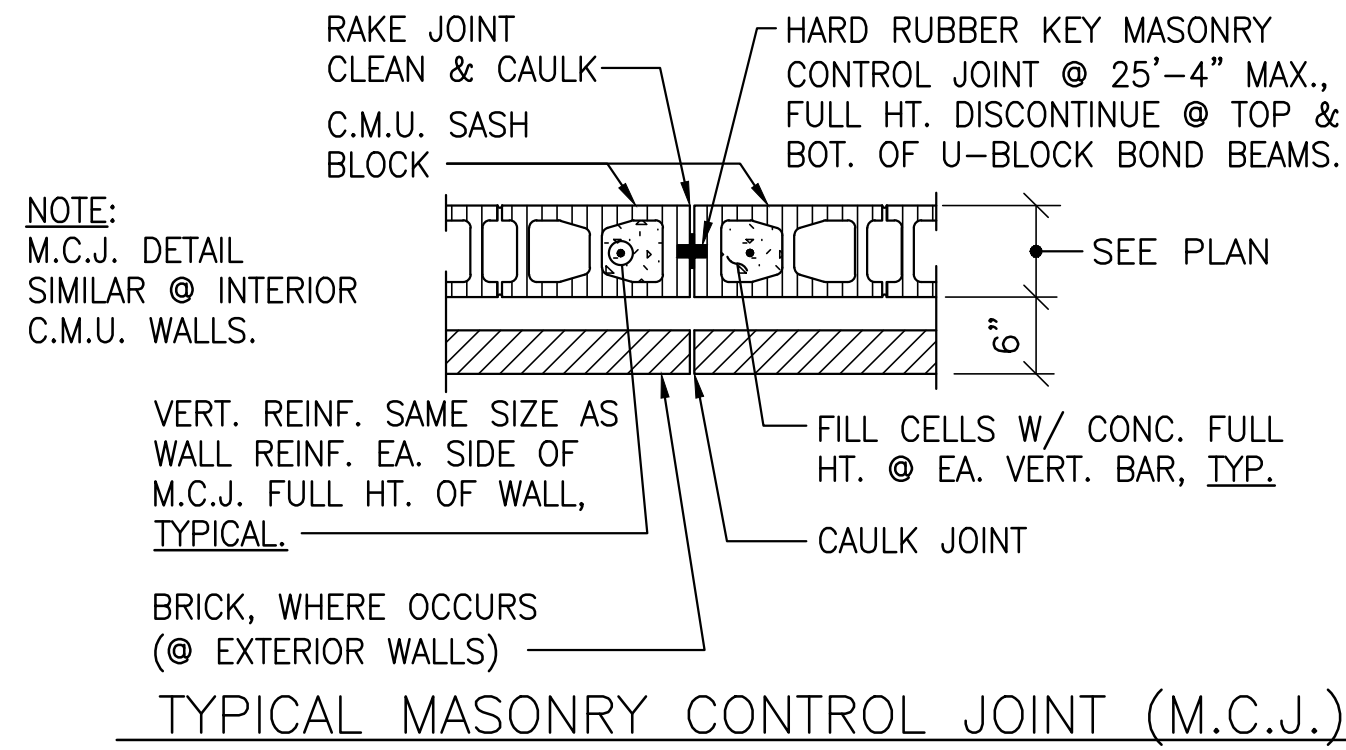




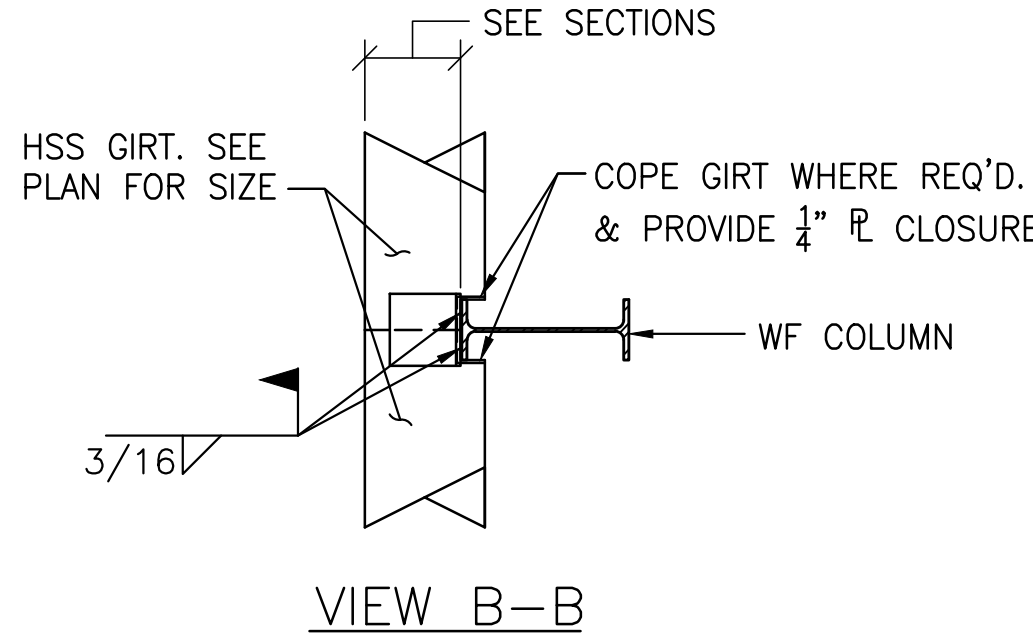
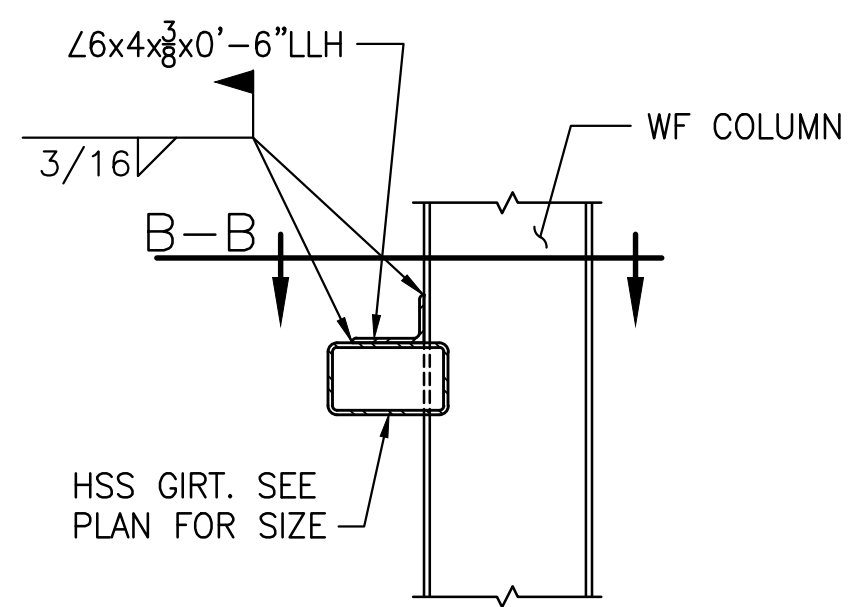
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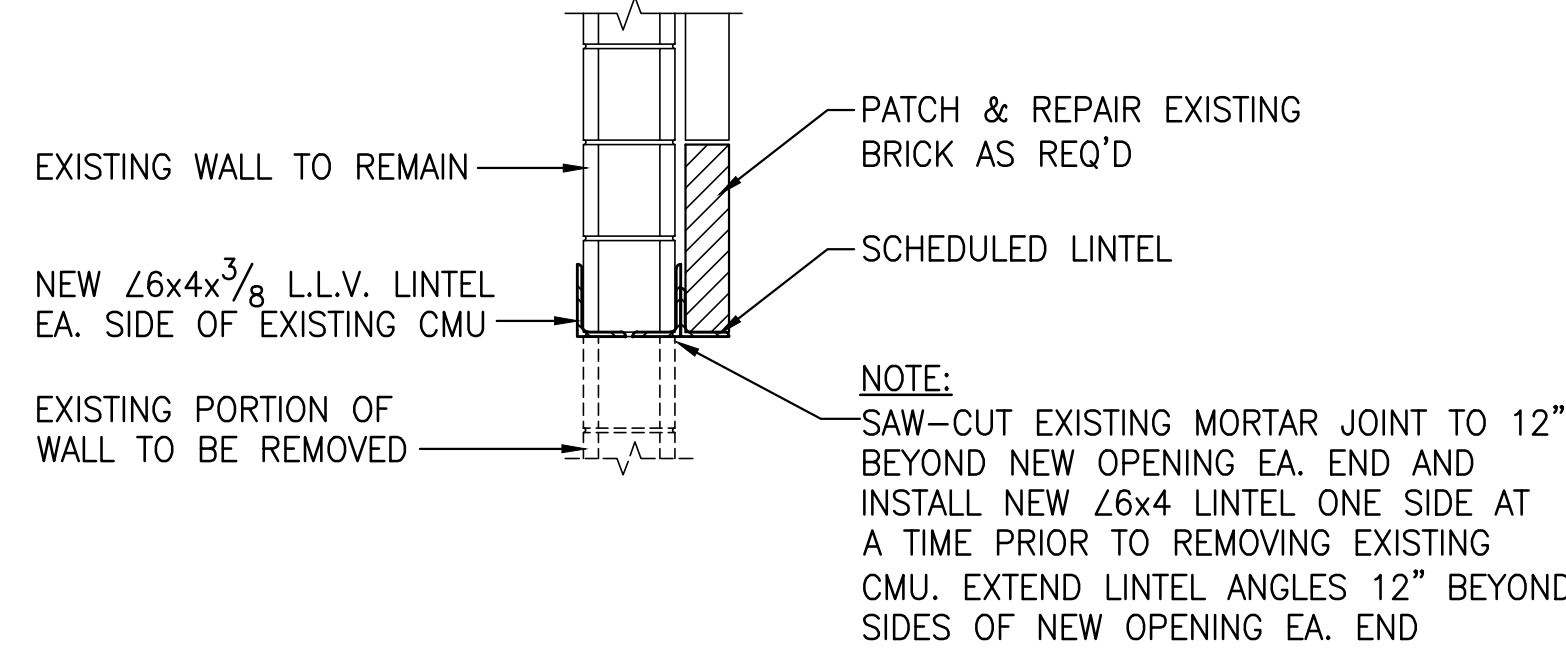
TYPICAL DETAIL AT WALL INTERSECTION



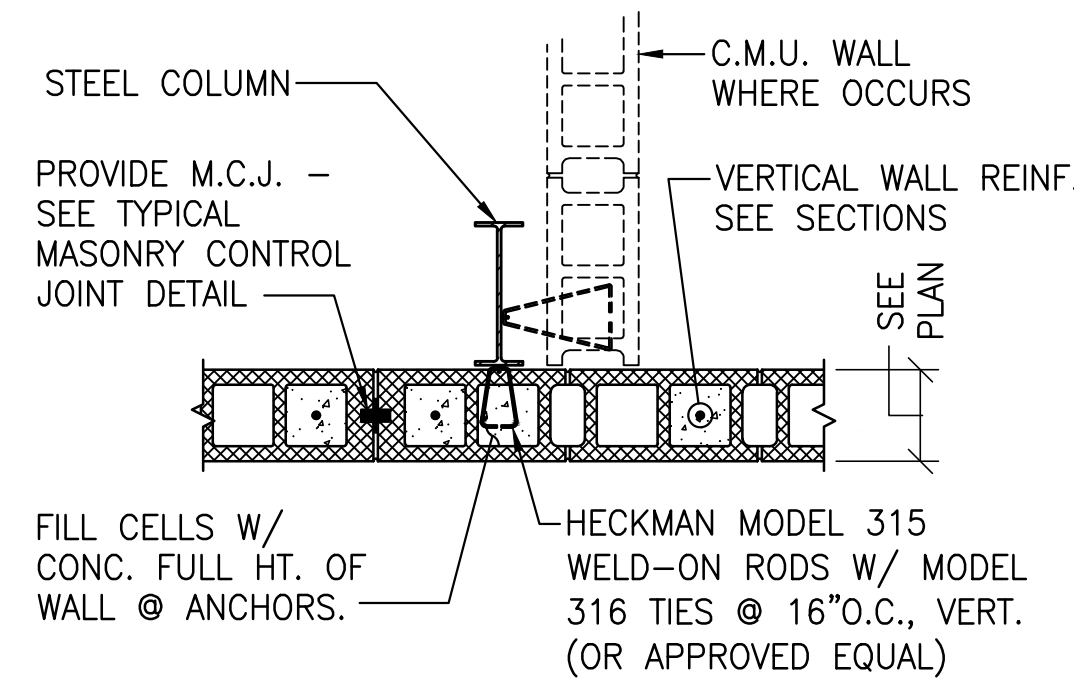
GIRTS BYPASSING COLUMN



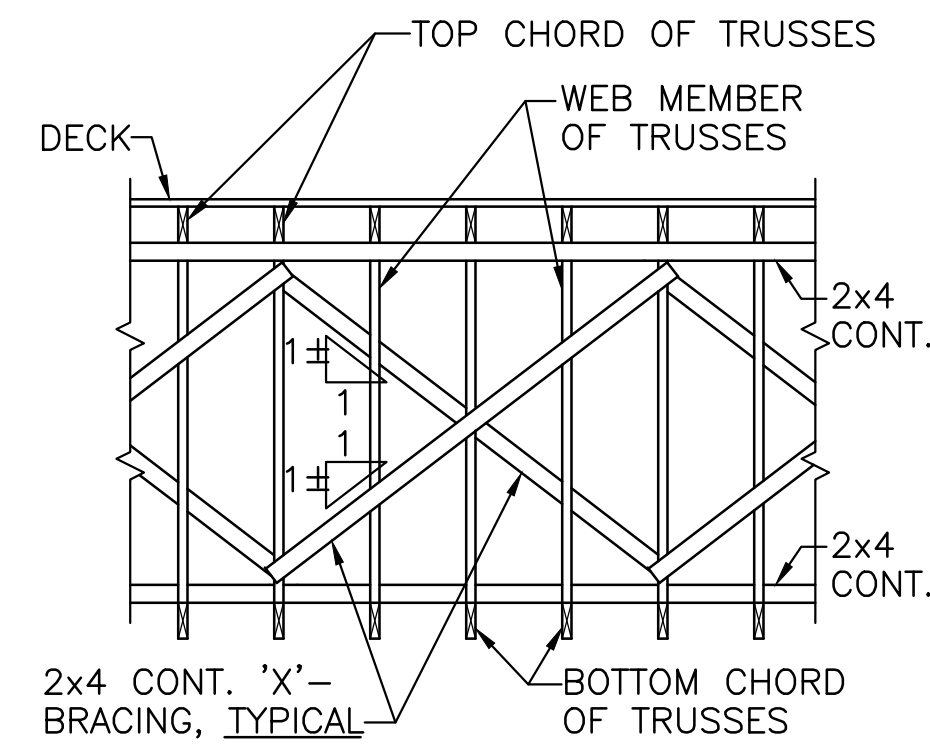
GIRTS BYPASSING COLUMN (COPED)  
TYPICAL HSS GIRT TO BUILDING COLUMN DETAILS



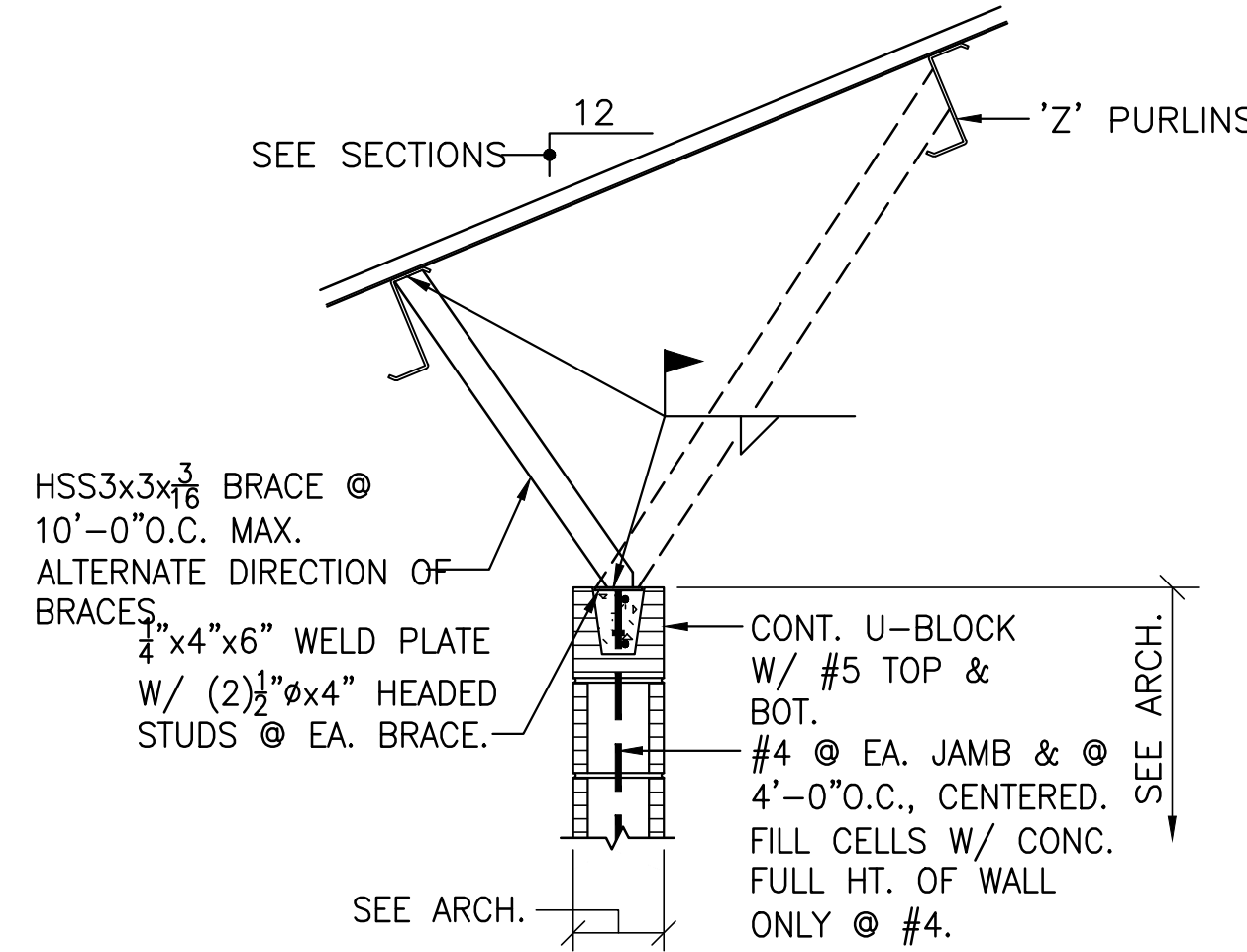
DETAIL OF NEW OPENING IN EXISTING WALL  
(4'-4" MAXIMUM OPENING WIDTH)



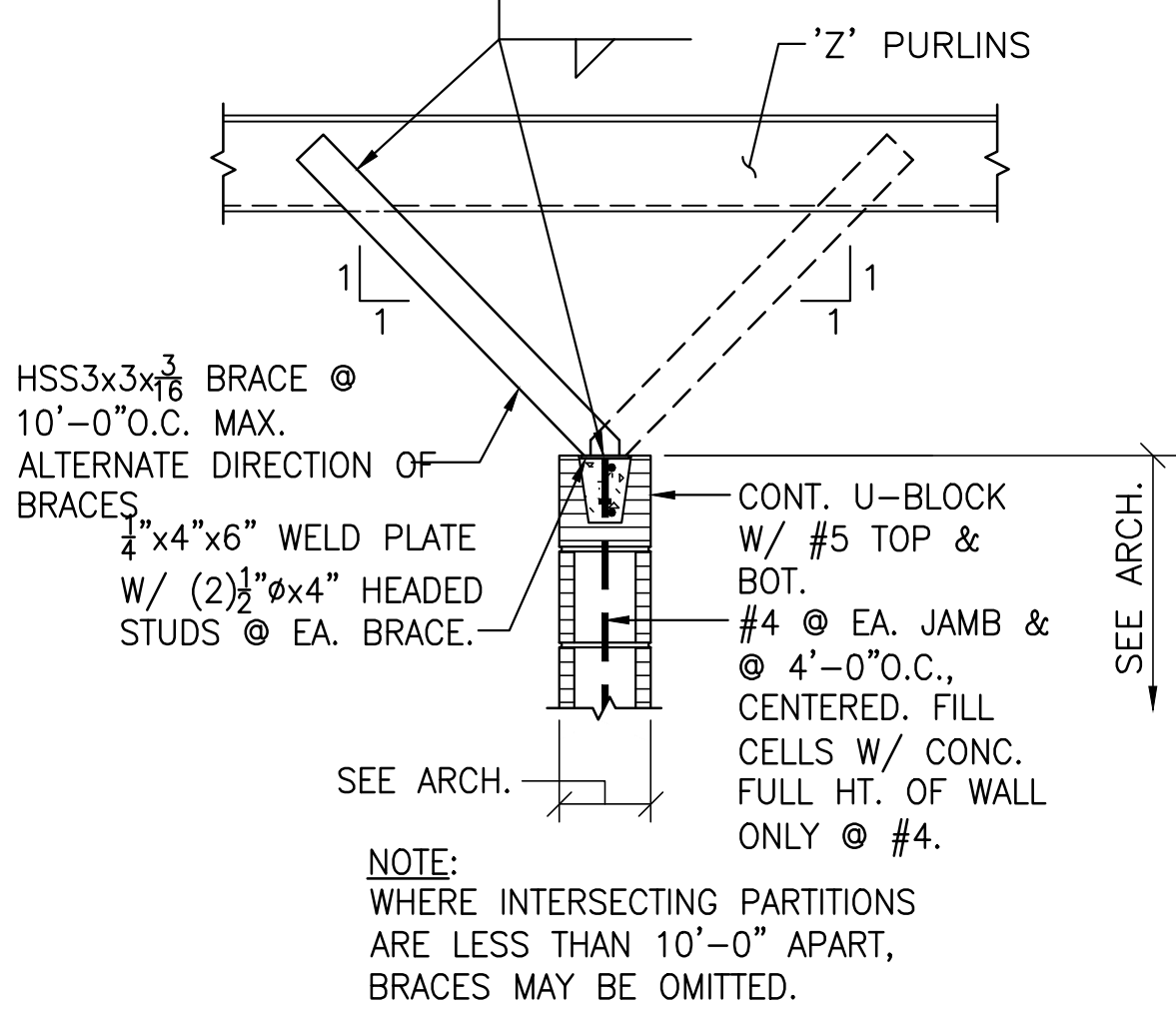
TYPICAL COLUMN-CMU ANCHORAGE DETAIL



TYPICAL WOOD TRUSS 'X'-BRACING DETAIL

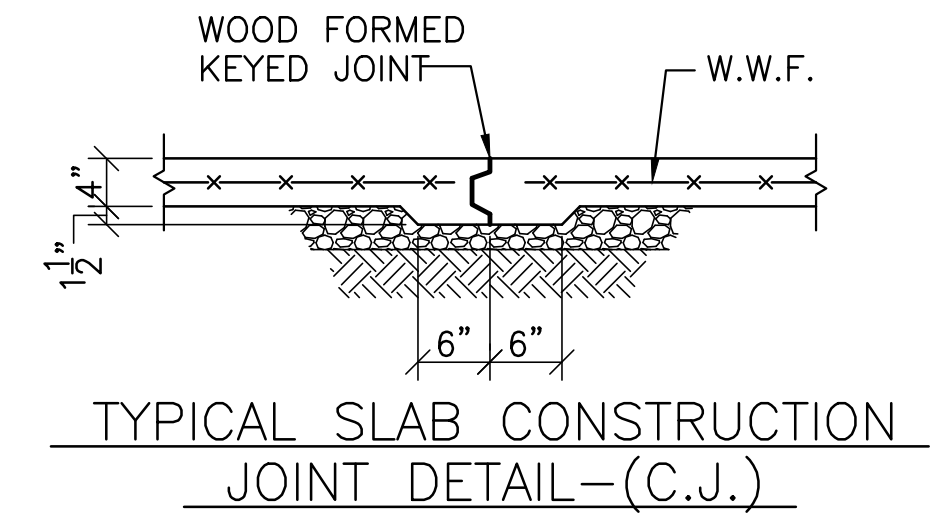


WALL PARALLEL TO PURLINS

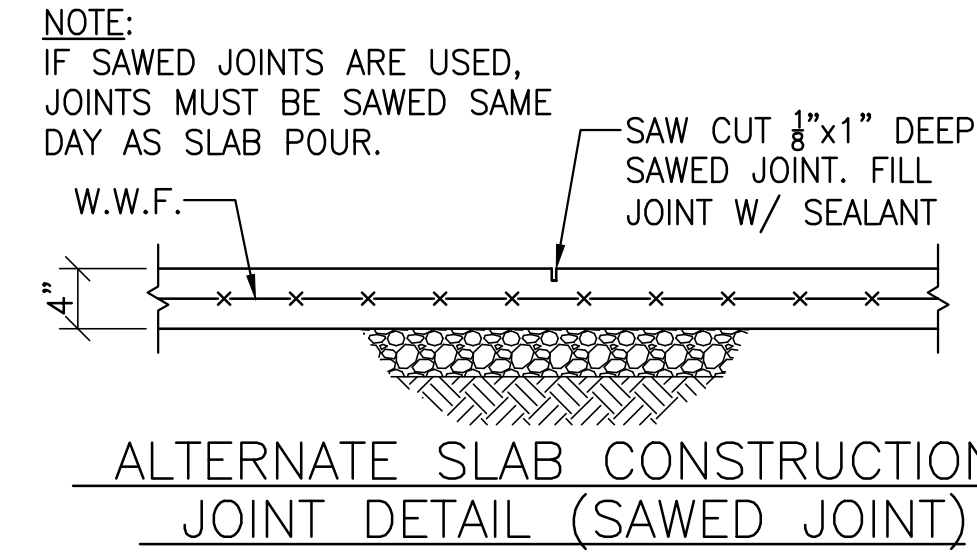


WALL PERPENDICULAR TO PURLINS

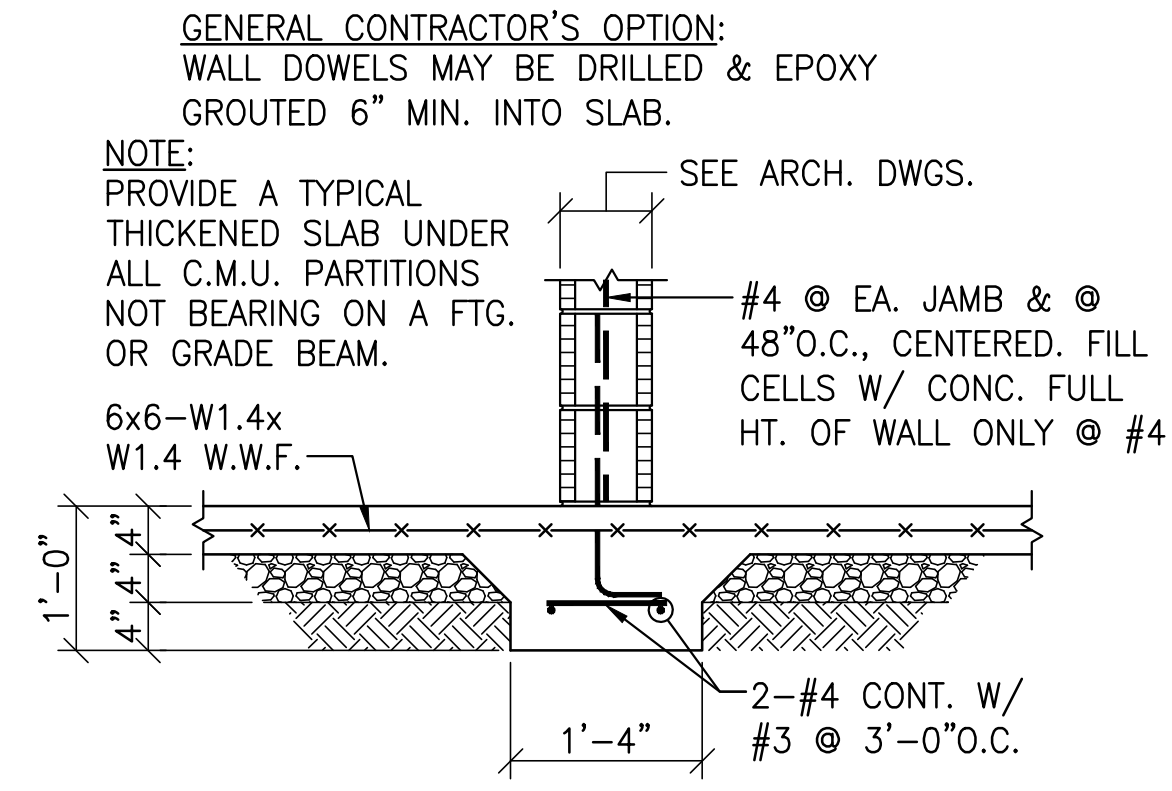
TYPICAL NON-BEARING C.M.U. WALL BRACING DETAIL



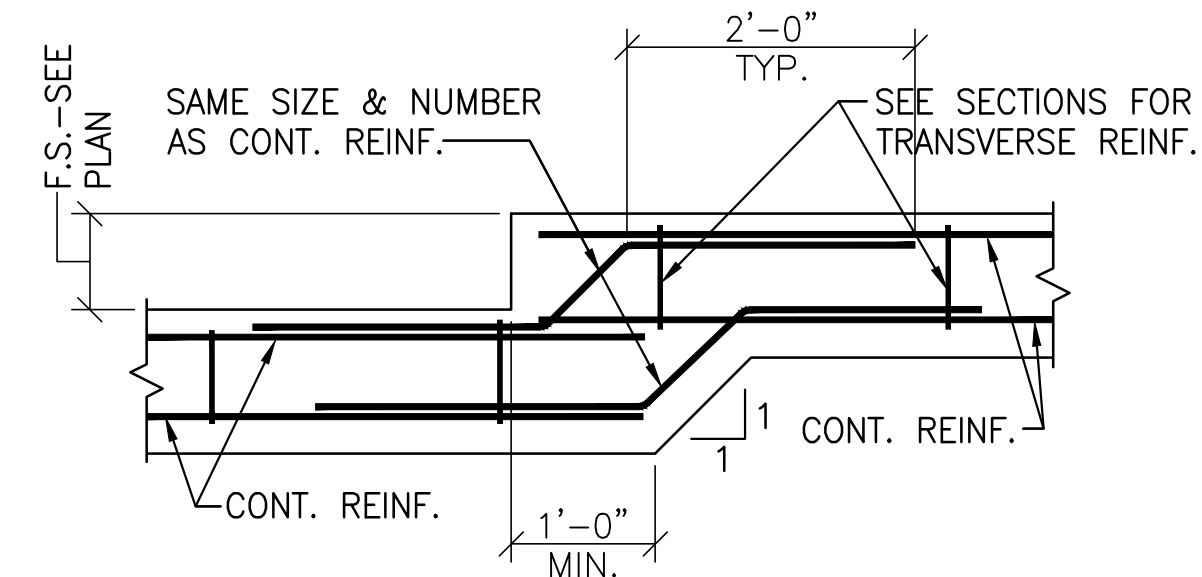
TYPICAL SLAB CONSTRUCTION JOINT DETAIL-(C.J.)



ALTERNATE SLAB CONSTRUCTION JOINT DETAIL (SAWED JOINT)



TYPICAL THICKENED SLAB DETAIL



TYPICAL FOOTING STEP DETAIL - (F.S.)

GYM ADDITION  
TO  
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FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA

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SHEET TITLE : TYPICAL DETAILS

MCKEE JOB # : 21.269

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REVISED DATE :

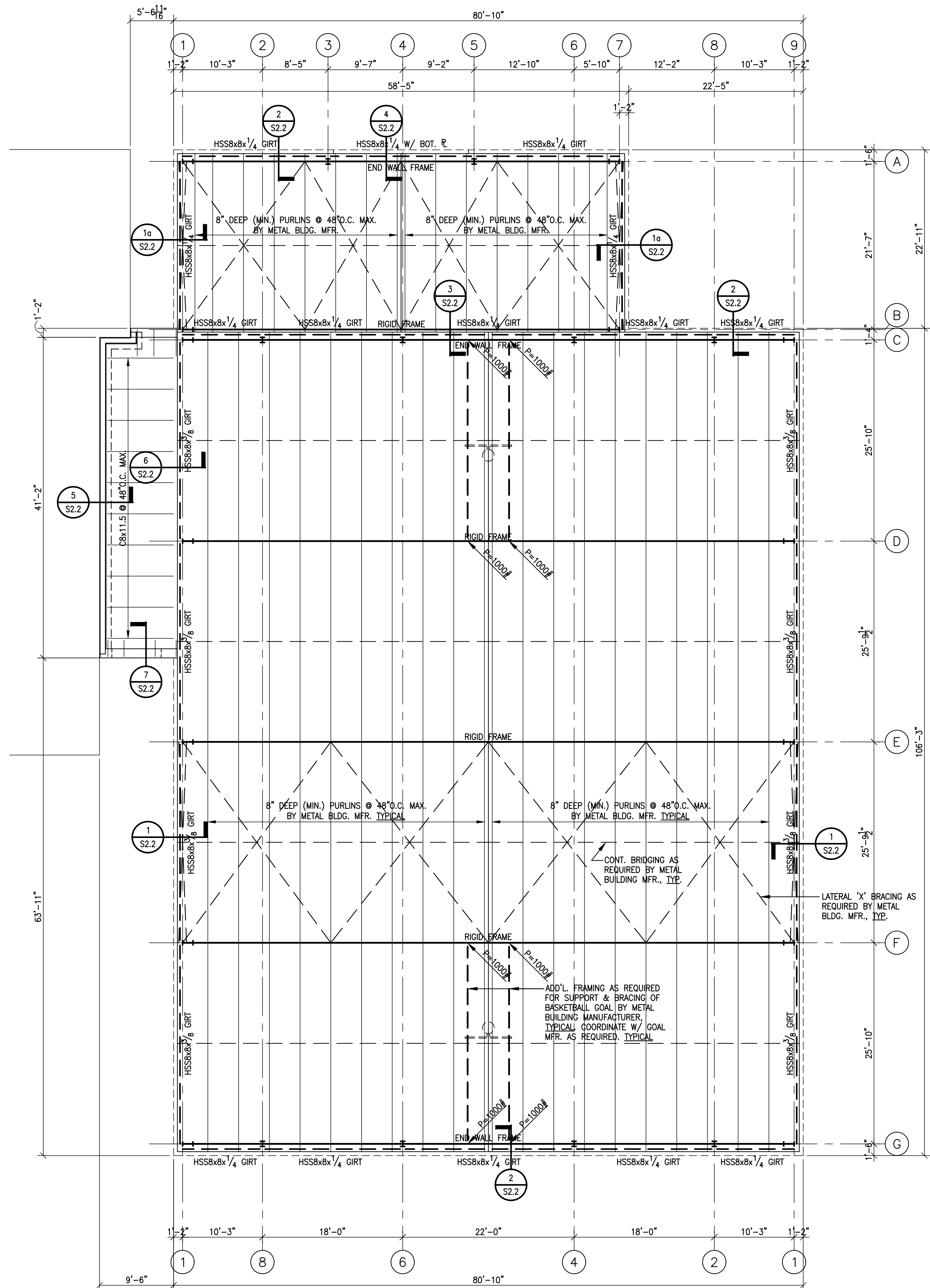
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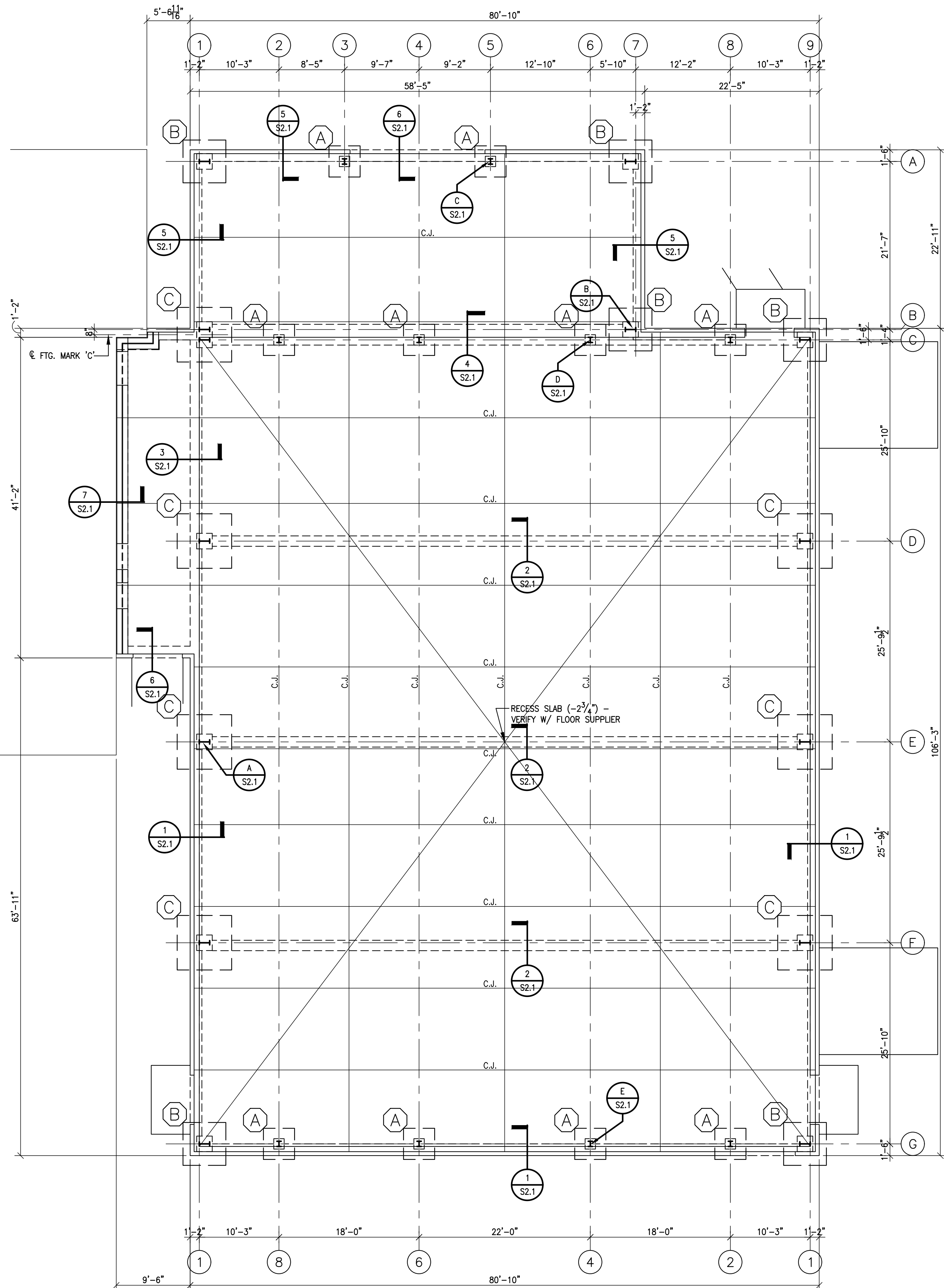


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**ROOF FRAMING PLAN**  
SCALE: 1/8" = 1'-0"

**CONNECTING COORIDOR  
ROOF CONSTRUCTION**  
TAPERED INSULATION OVER 1 1/2" DEEP,  
22 GAGE, WIDE RIB STEEL DECK W/ THE  
FOLLOWING MINIMUM SECTION PROPERTIES PER  
FOOT OF WIDTH: +  
S=0.19 IN.<sup>3</sup> I = 0.16 IN.<sup>4</sup> I = 0.18 IN.<sup>4</sup>



**FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"

**FLOOR CONSTRUCTION**  
4" THICK CONCRETE SLAB W/ 6x6-W1.4xW1.4  
W.W.F. (UNLESS NOTED OTHERWISE ON PLAN)  
OVER VAPOR BARRIER OVER 4" POROUS FILL.  
FINISH FLOOR EL.= +0'-0" (ASSUMED).

**NOTE:**  
UNLESS NOTED OTHERWISE, TOP OF  
FOOTING EL.= (-2'-0") BELOW FINISH  
FLOOR EL. +0'-0"

**NOTE:**  
PROVIDE M.C.J.'S @ 25'-4" MAXIMUM  
SPACING, SEE MASONRY GENERAL  
NOTE "6" ON SHT. S0.1 & SHT. S0.2  
FOR TYPICAL MASONRY CONTROL  
JOINT DETAIL. COORDINATE EXACT  
LOCATIONS W/ ARCH.

**NOTE:**  
PROVIDE A TYPICAL THICKENED SLAB  
UNDER ALL C.M.U. PARTITIONS NOT  
BEARING ON A FOOTING. SEE SHEET  
S0.2 FOR TYPICAL DETAIL.

**GYM ADDITION**  
TO  
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FOR THE  
**FRANKLIN COUNTY BOARD OF EDUCATION**  
PHIL CAMPBELL, ALABAMA



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SHEET TITLE : FOUNDATION PLAN

MCKEE JOB # : 21.269

DRAWN BY : RAS

DATE : 09.09.2022

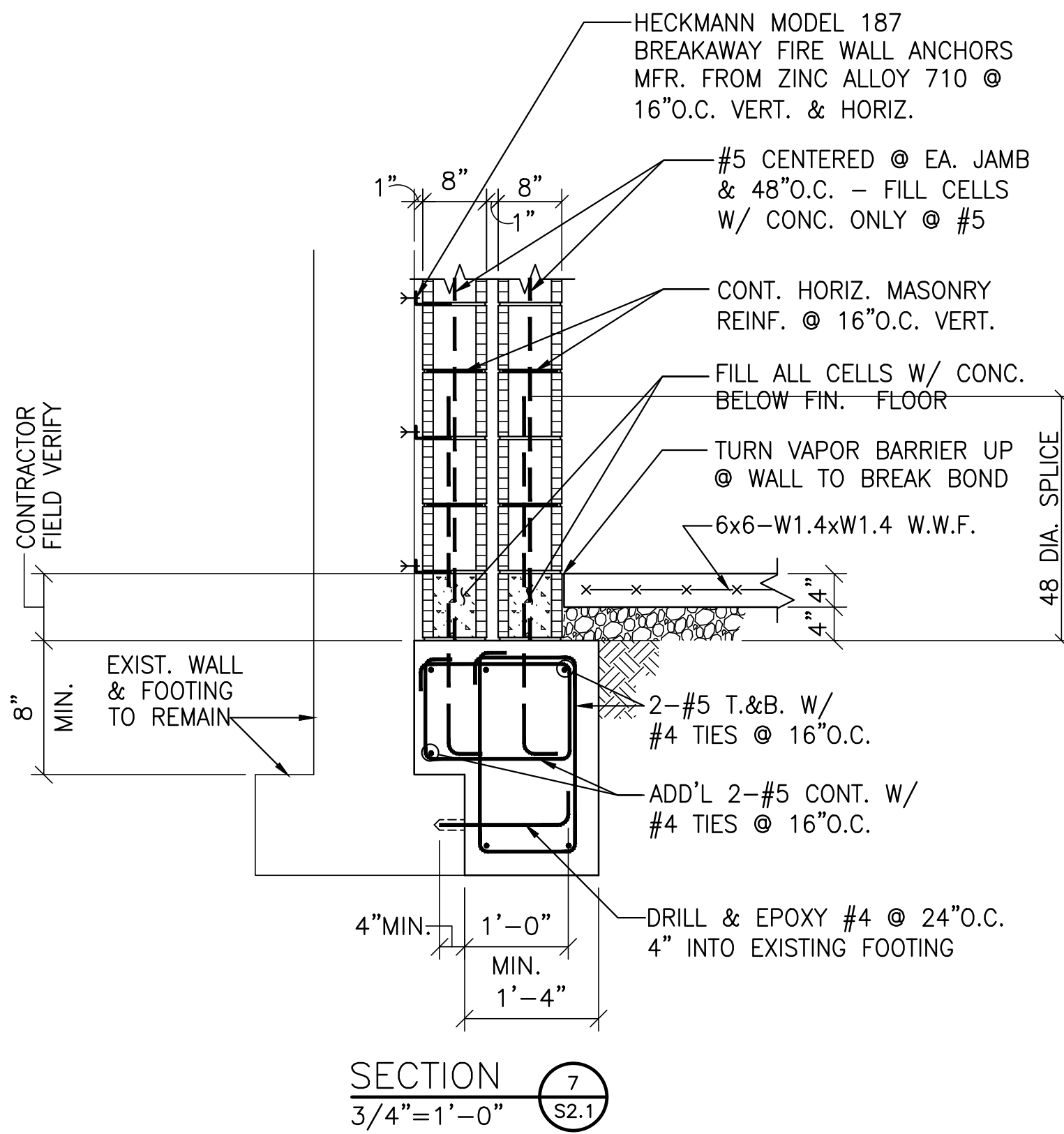
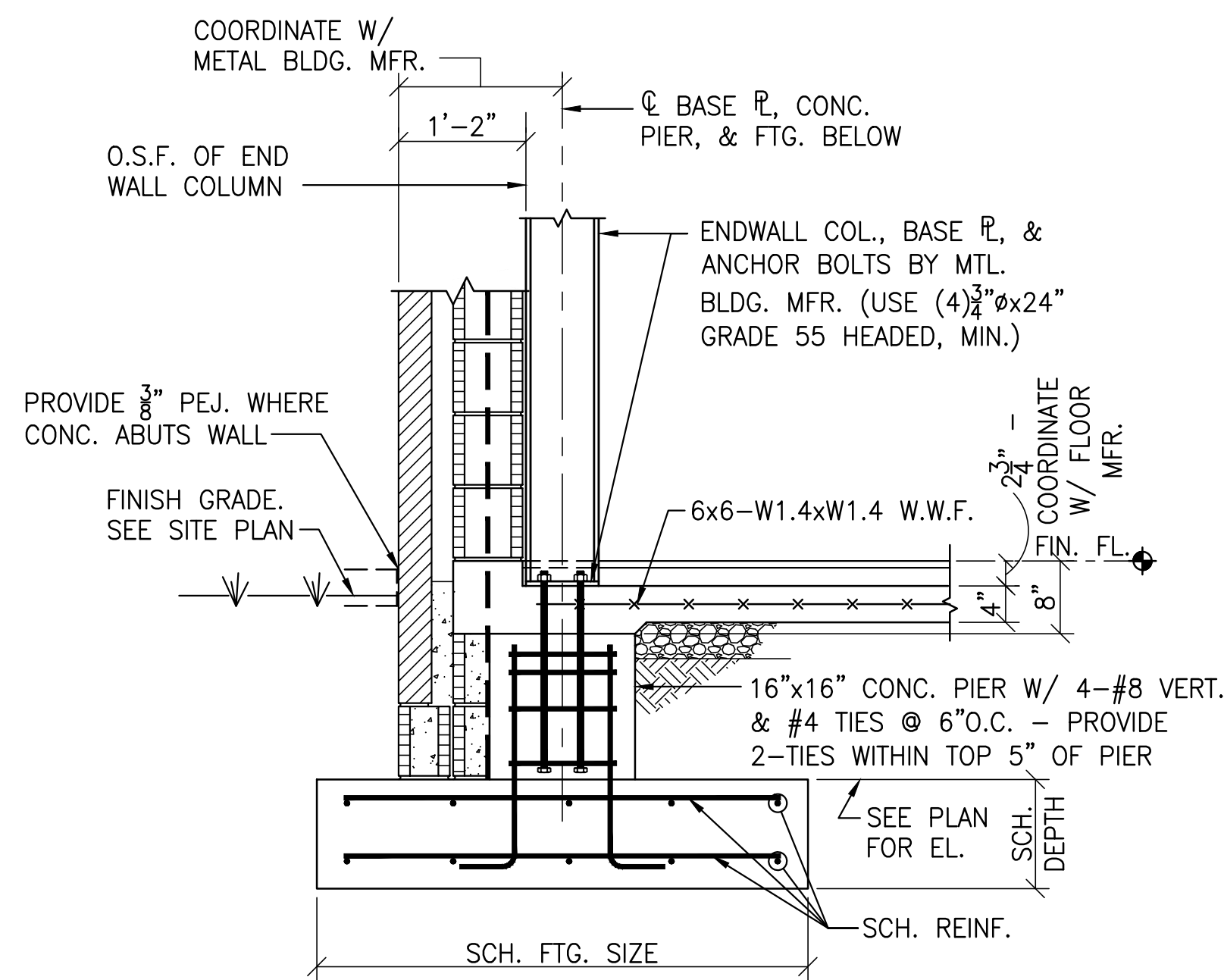
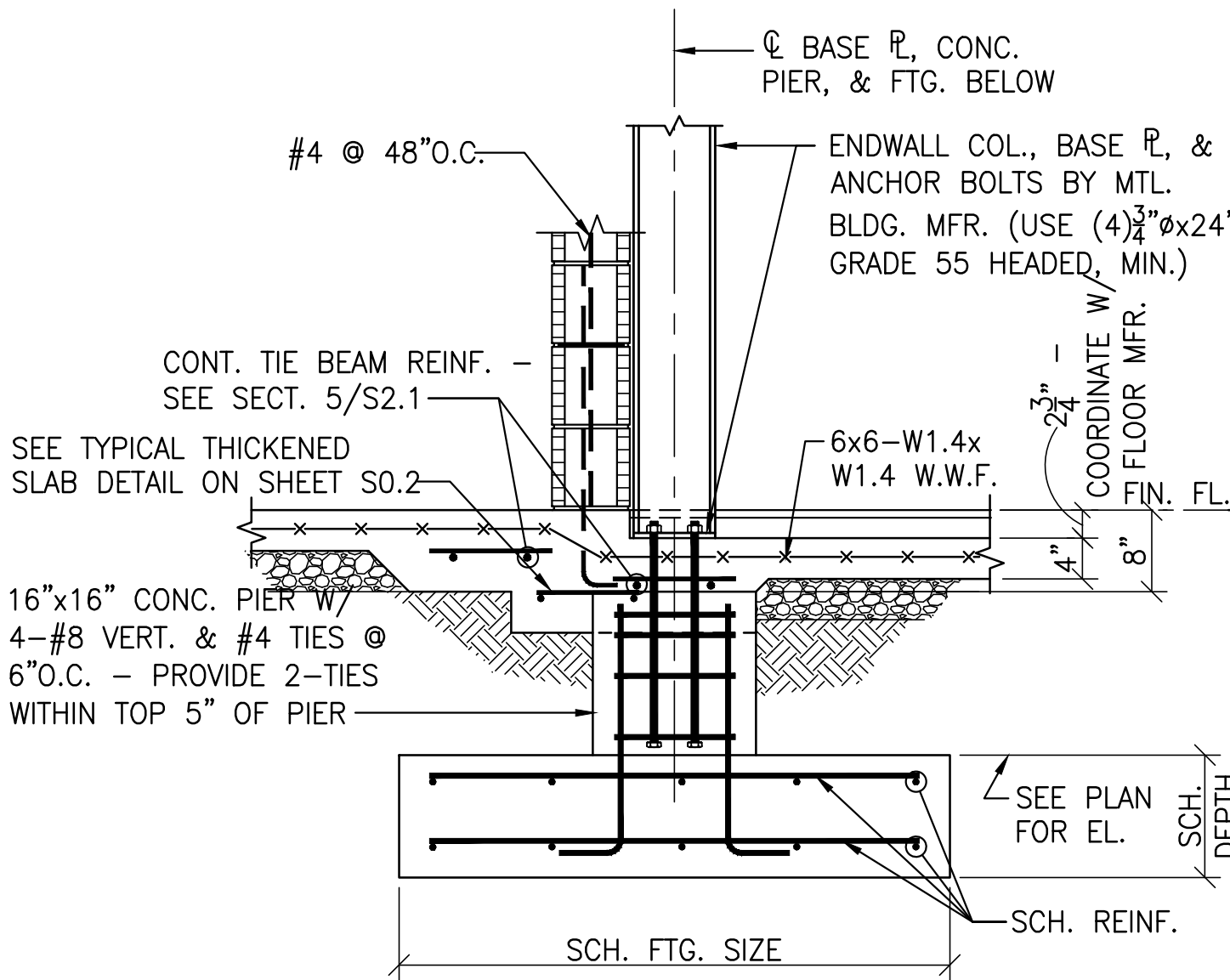
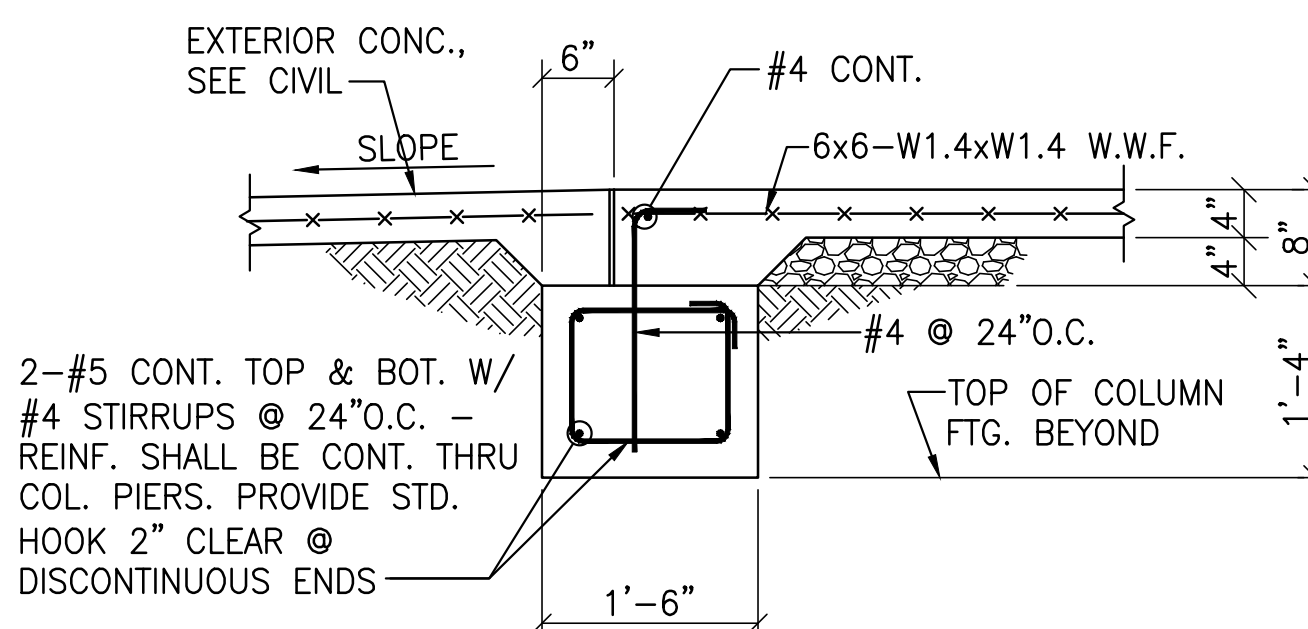
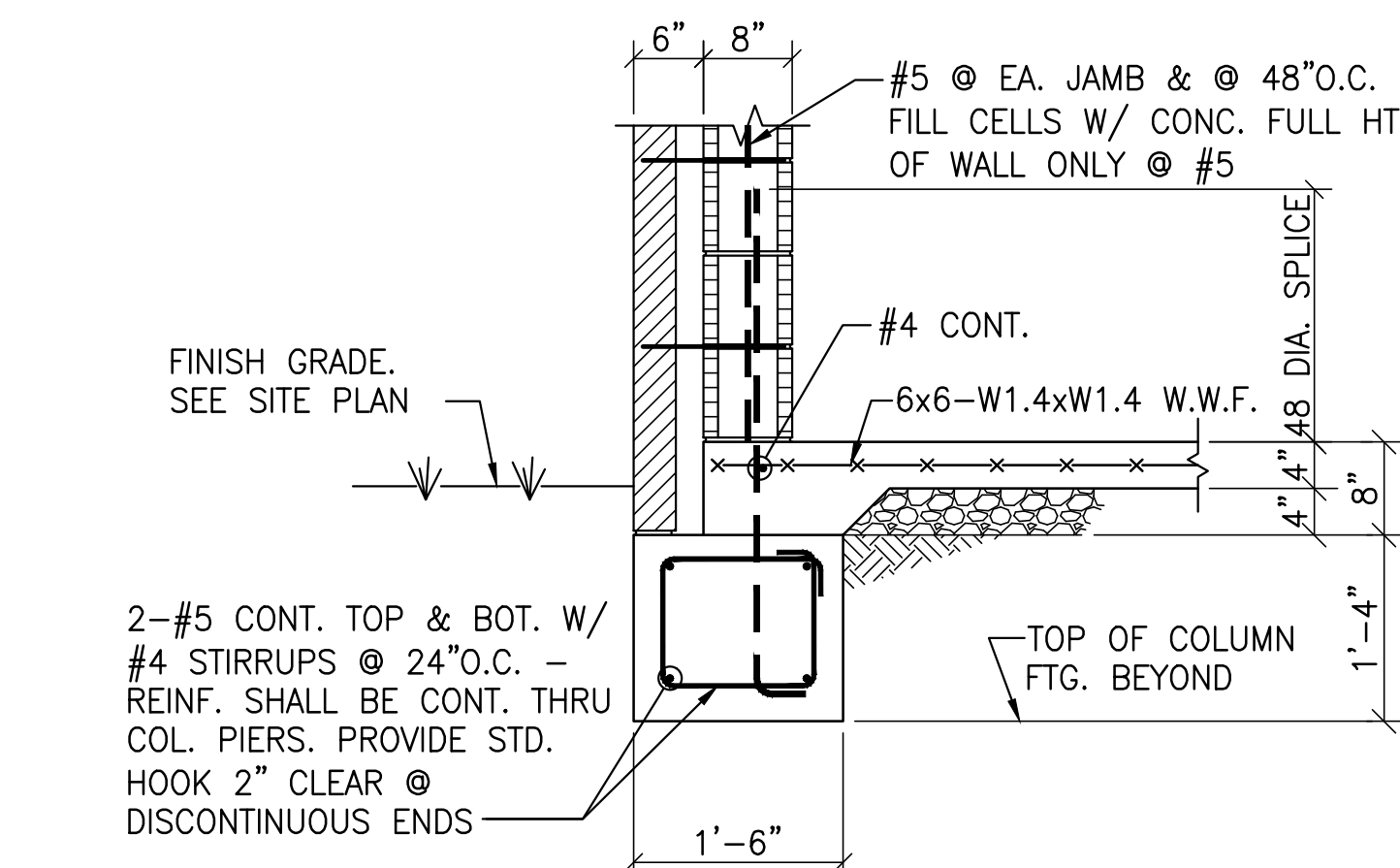
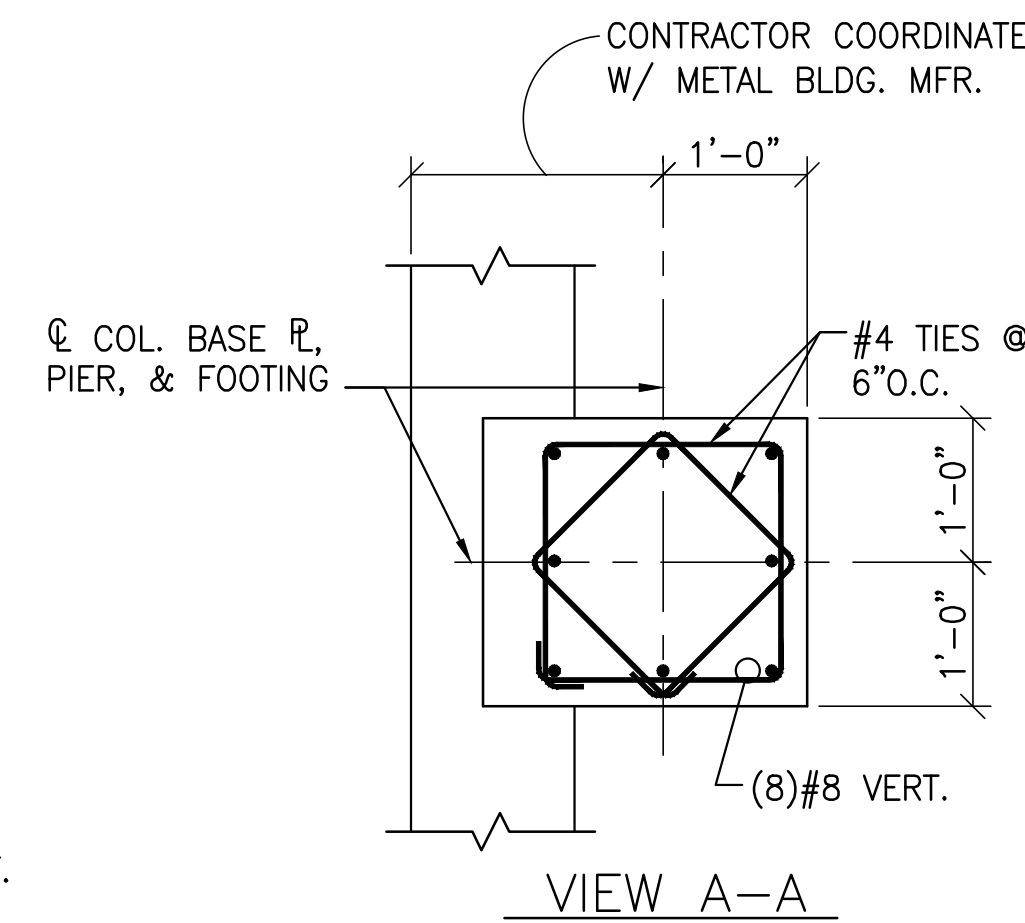
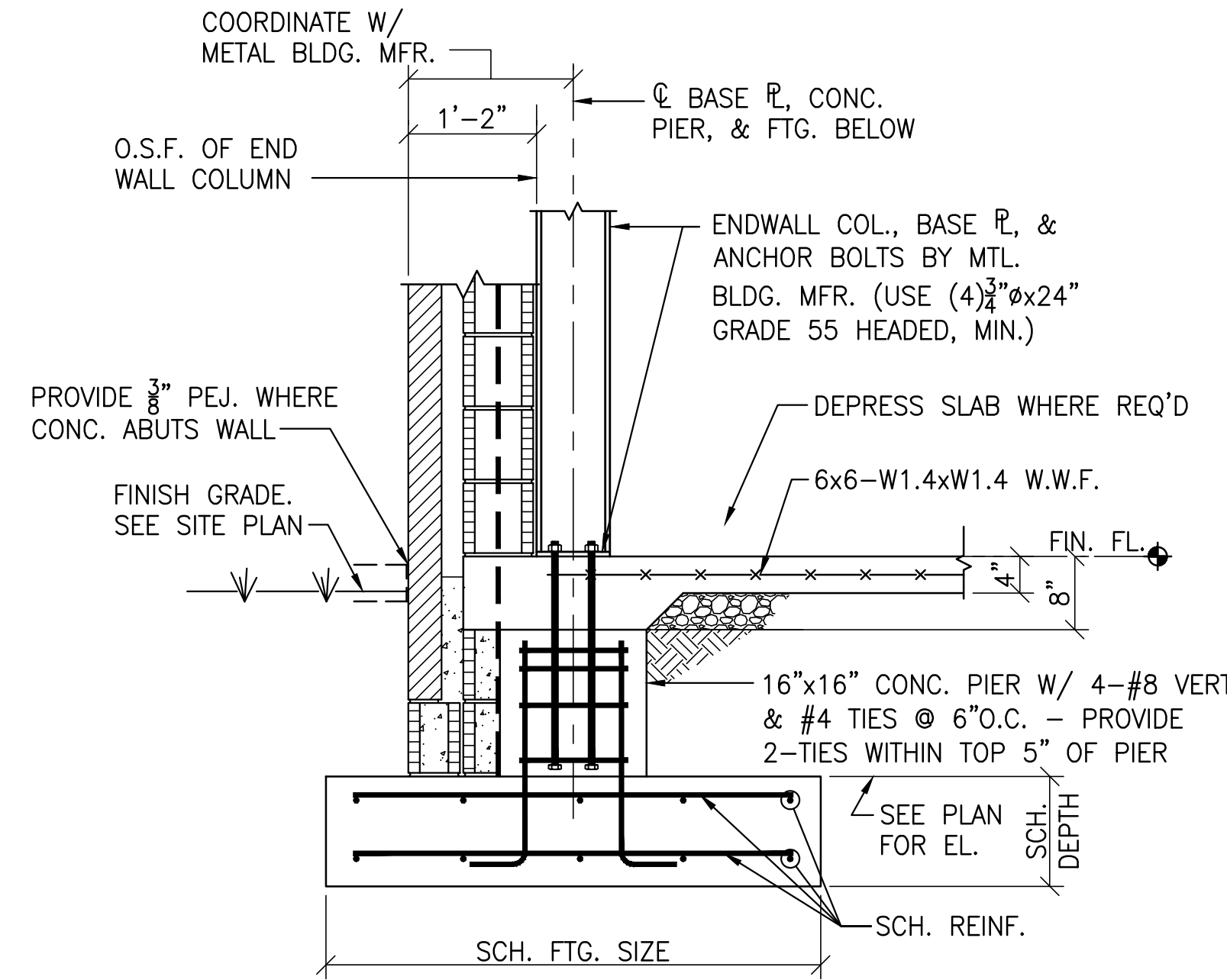
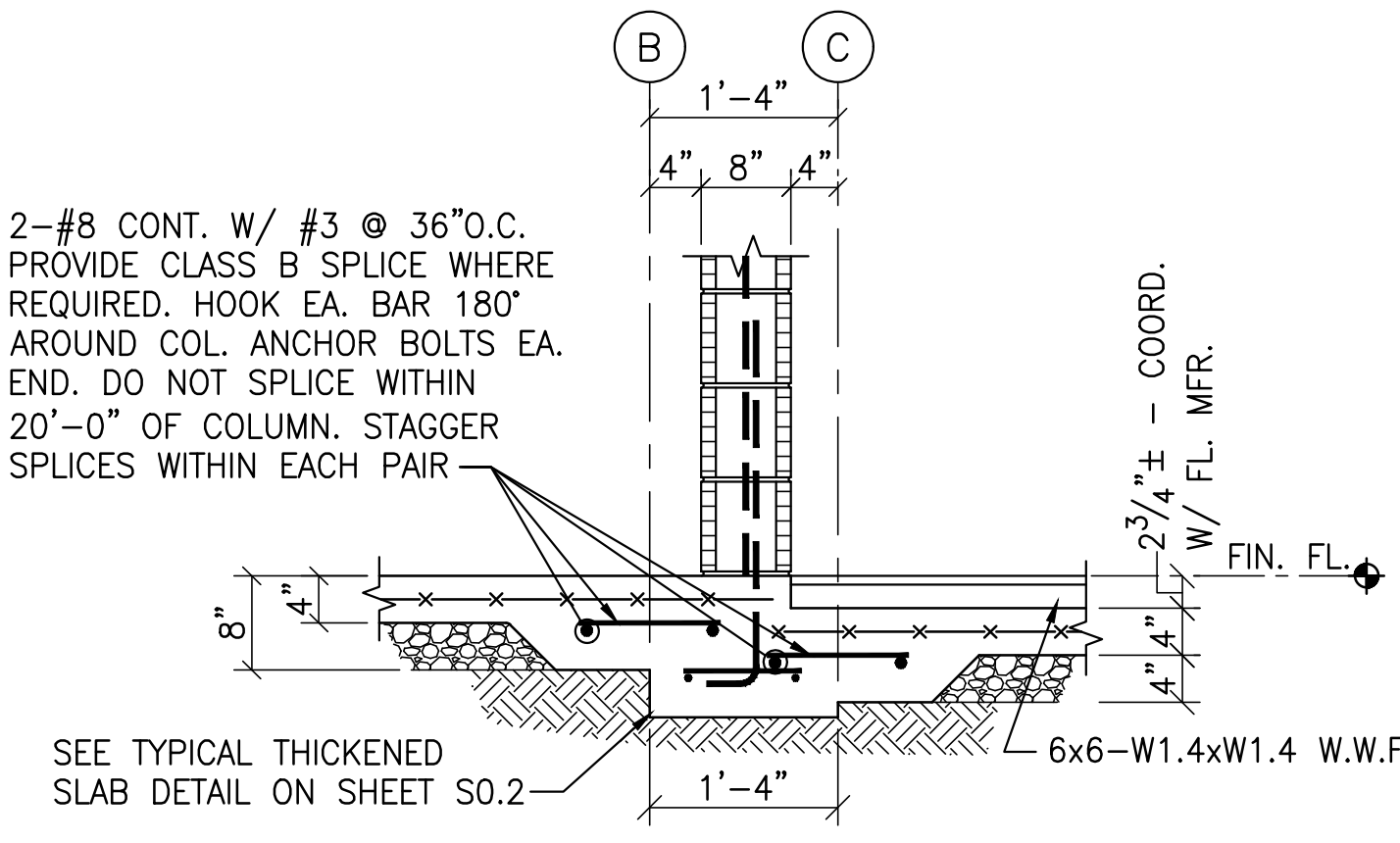
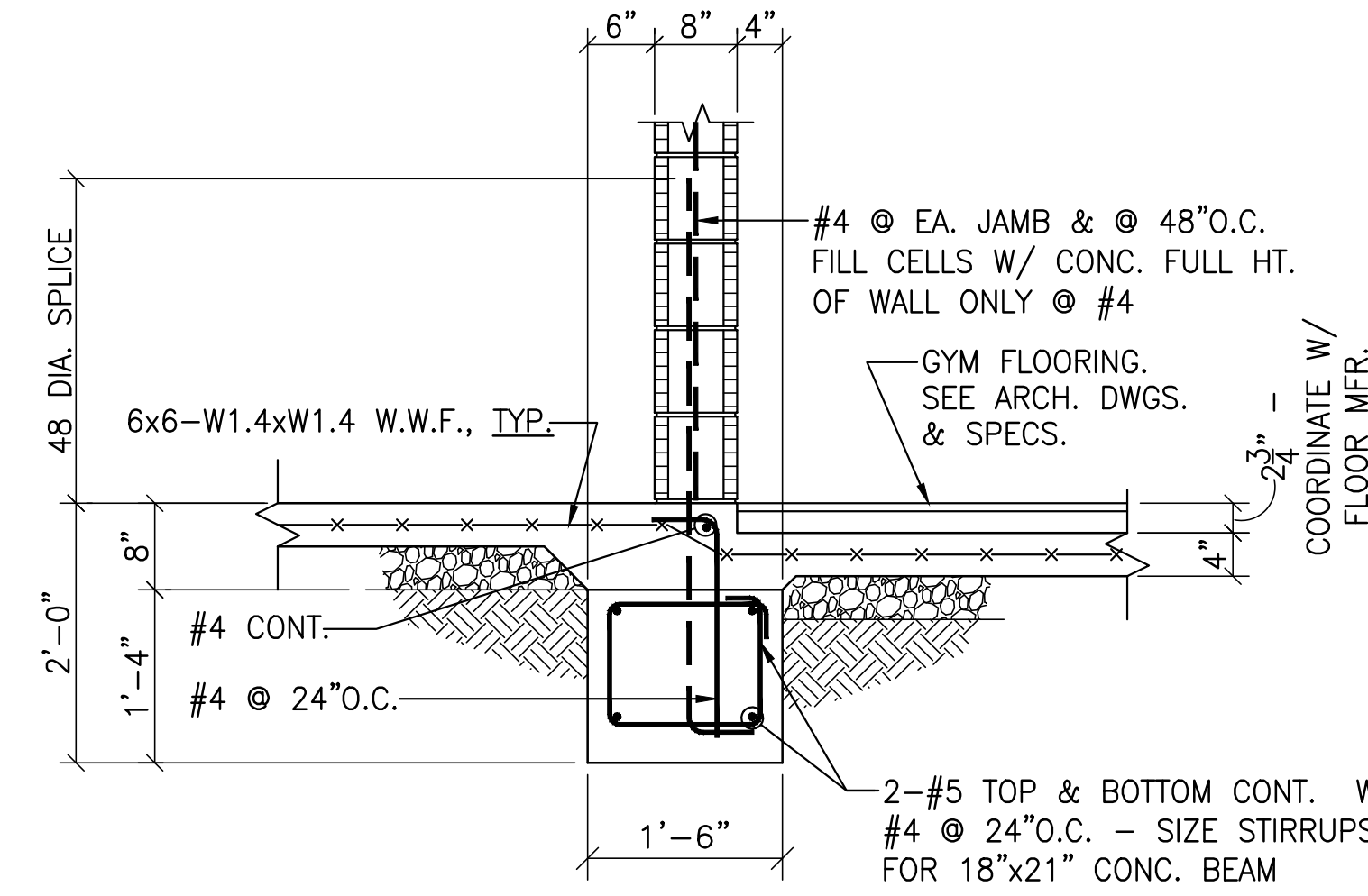
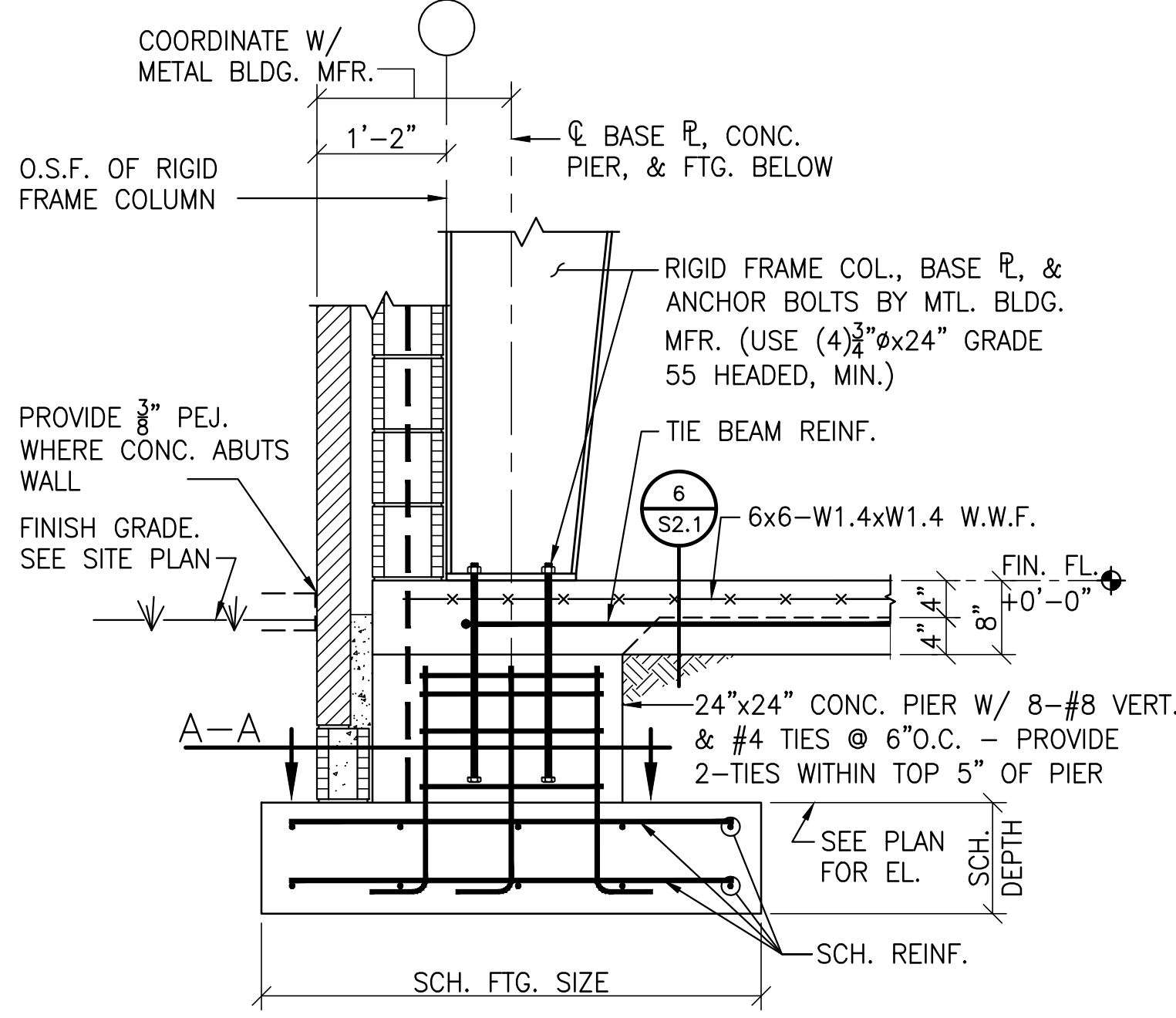
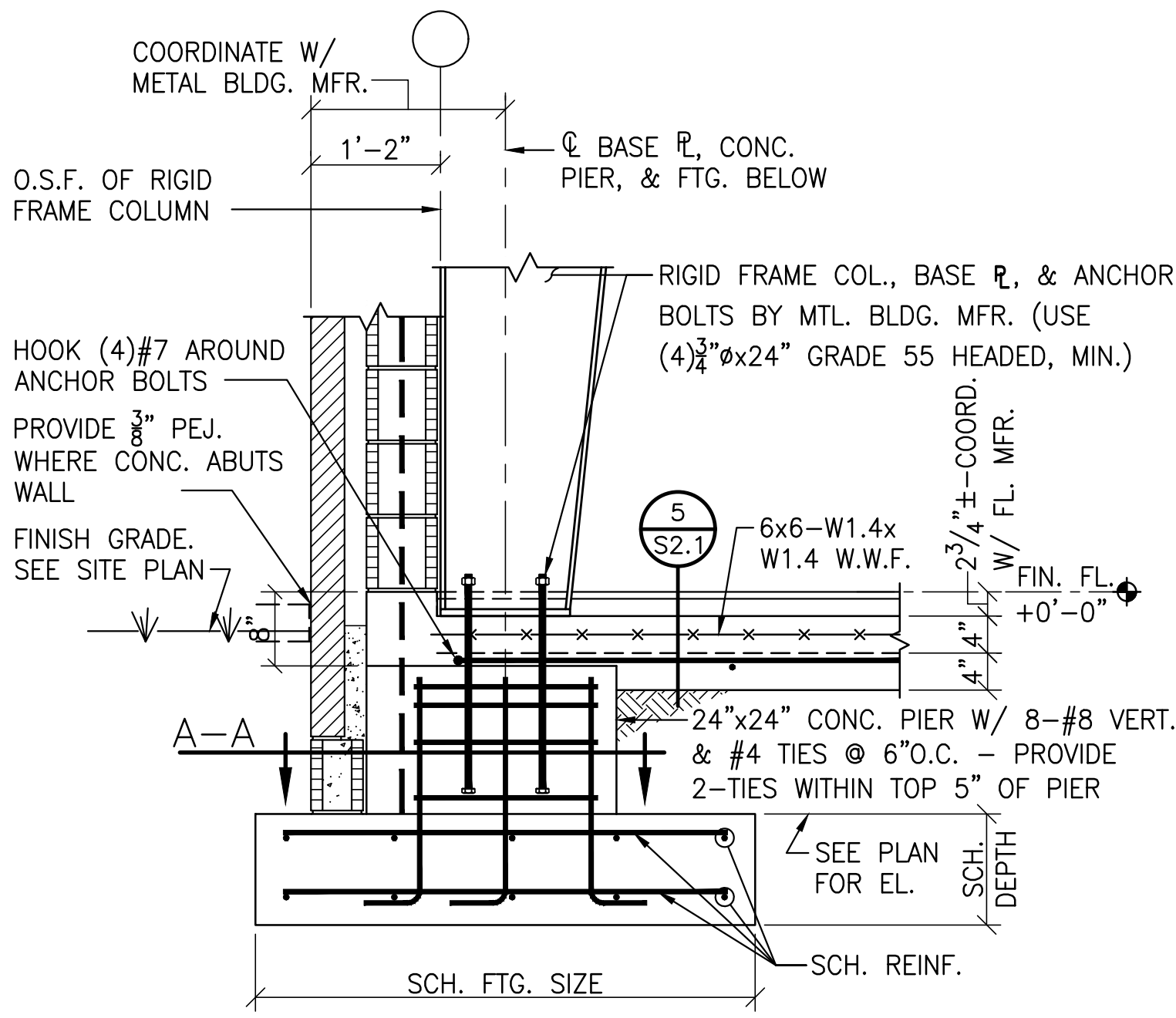
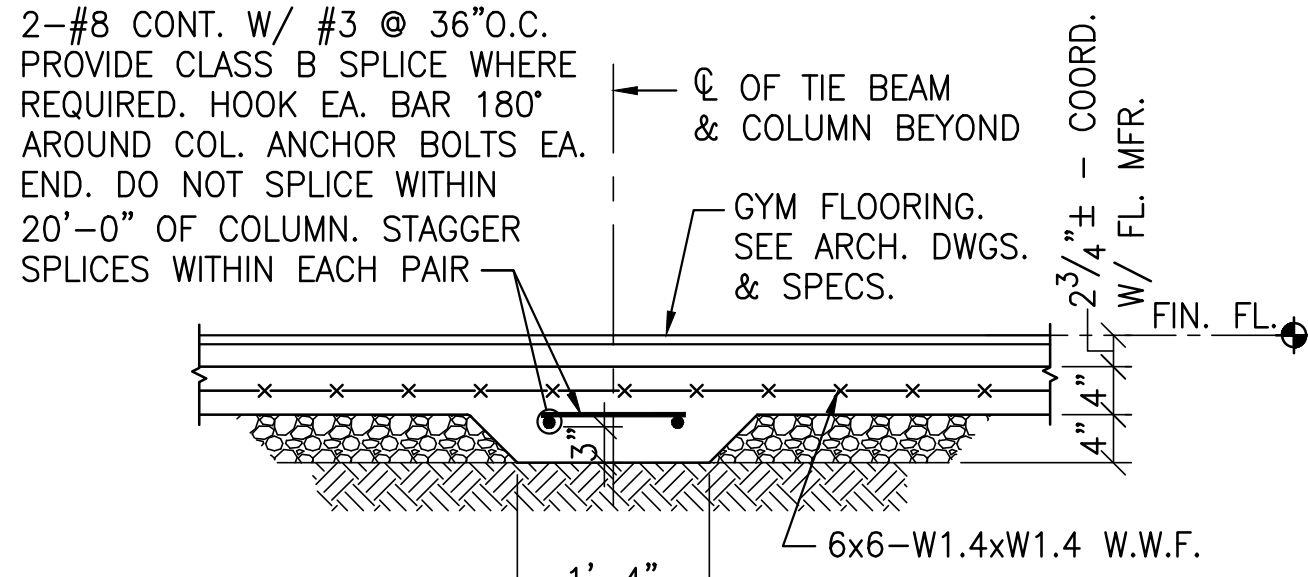
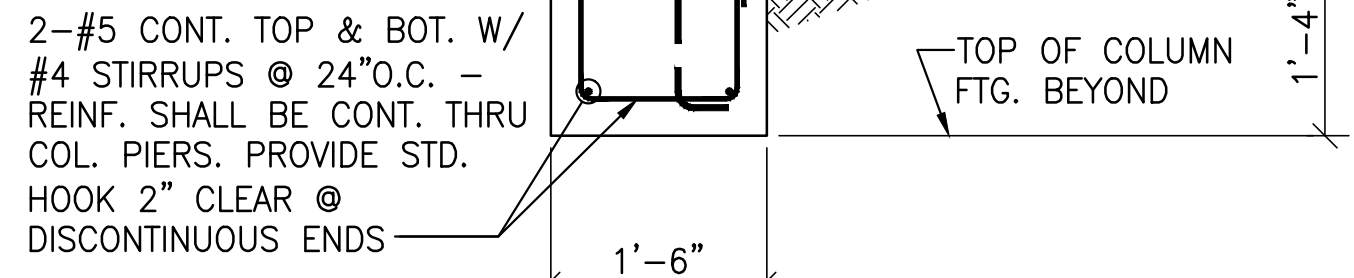
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GYM ADDITION  
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 FOR THE  
 FRANKLIN COUNTY BOARD OF  
 PHIL CAMPBELL, ALABAMA

**McKEE and ASSOCIATES**  
ARCHITECTS, INC.



SHEET TITLE :        SECTIONS AND  
DETAILS

MCKEE JOB # : 21.269

DRAWN BY : RAS

DATE: 09.09.2022

REVISÉ DATE:

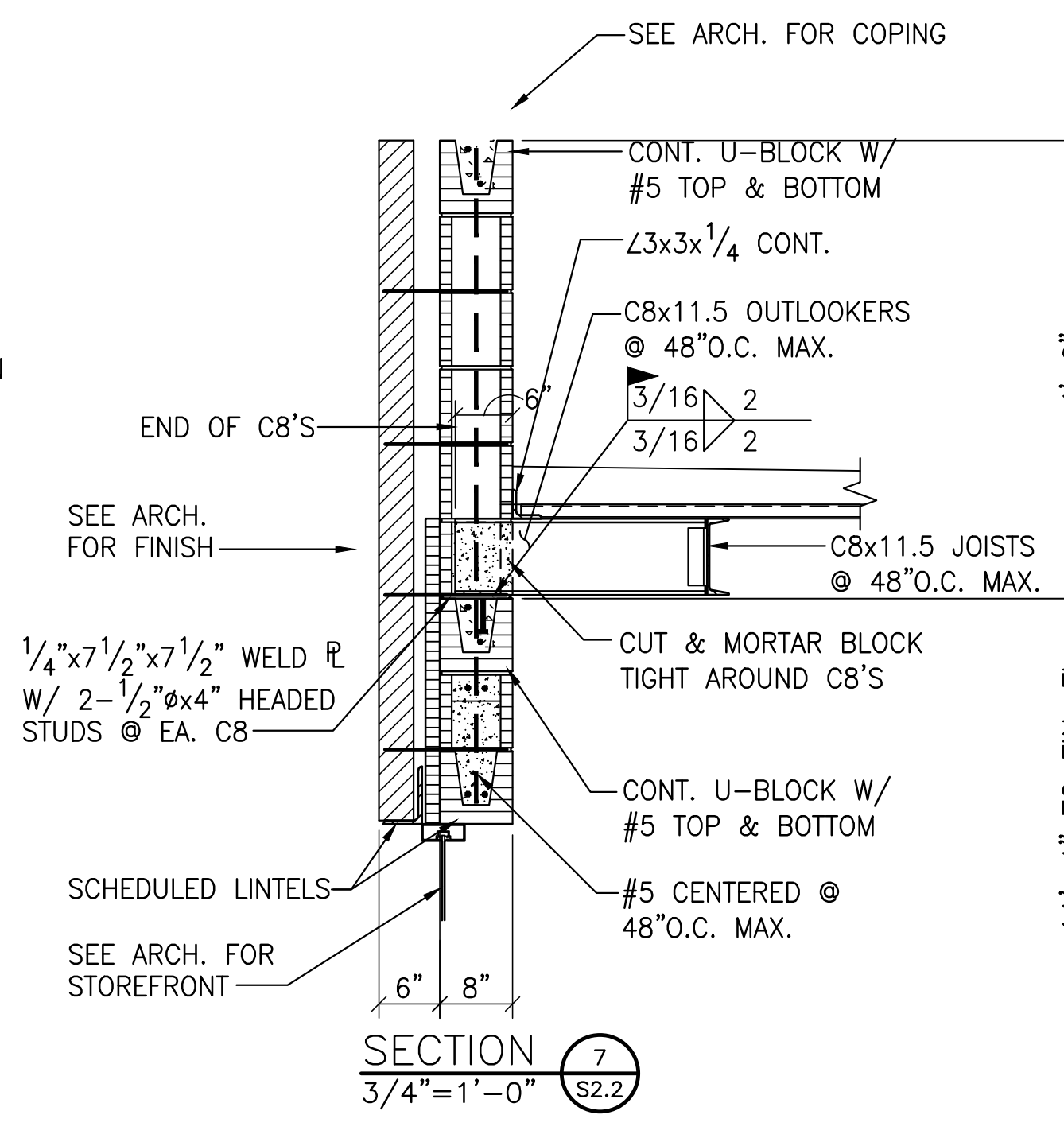
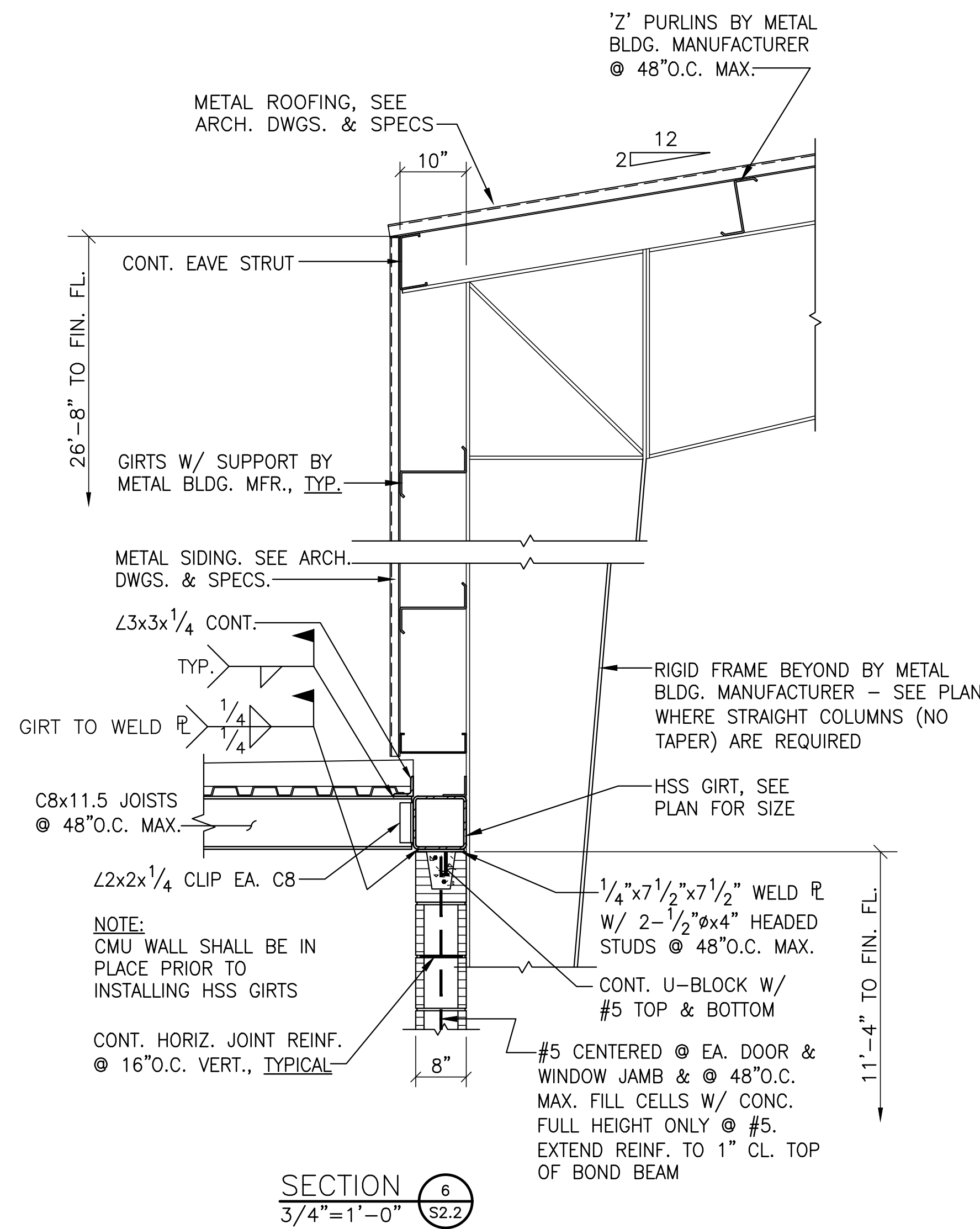
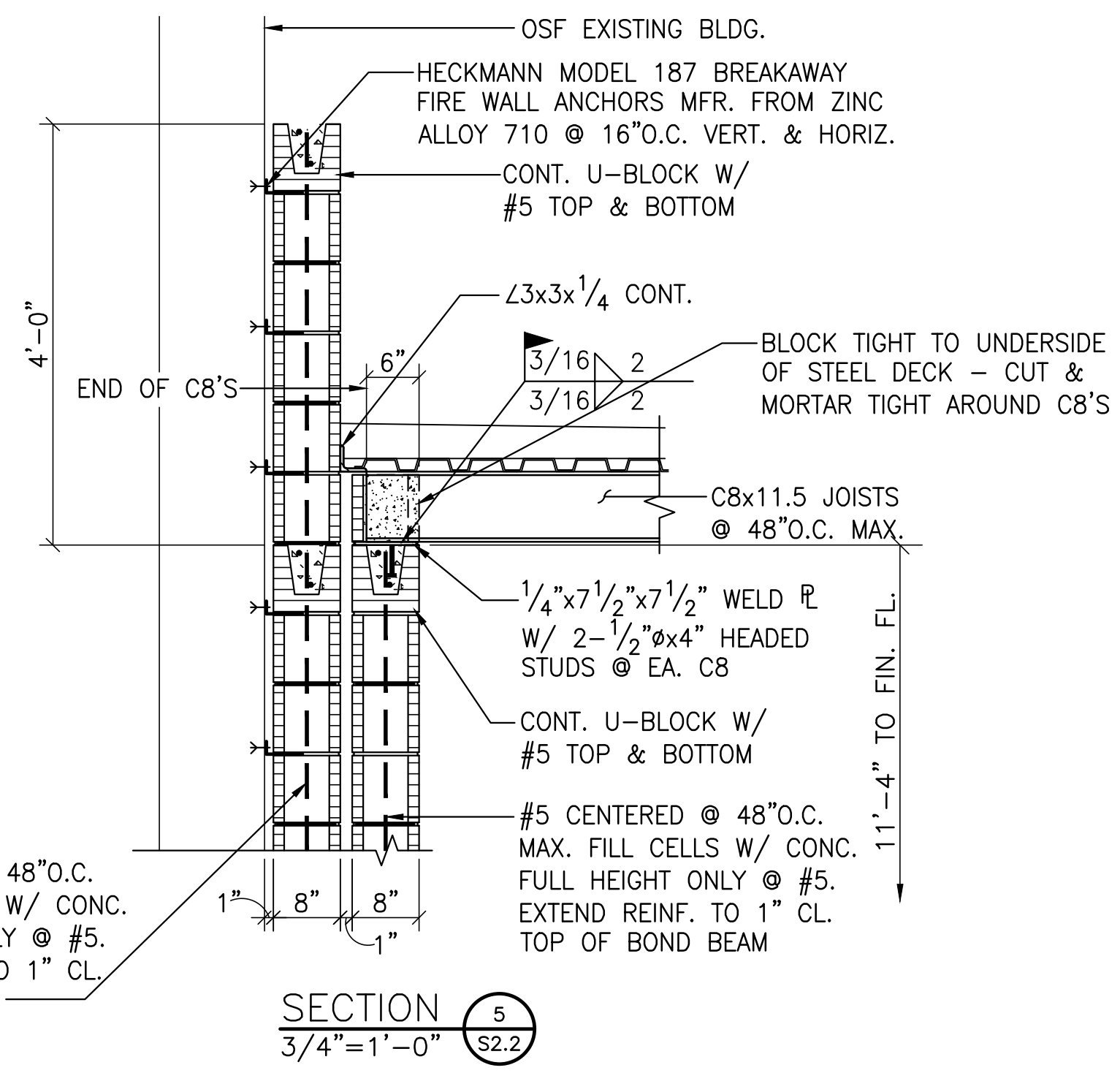
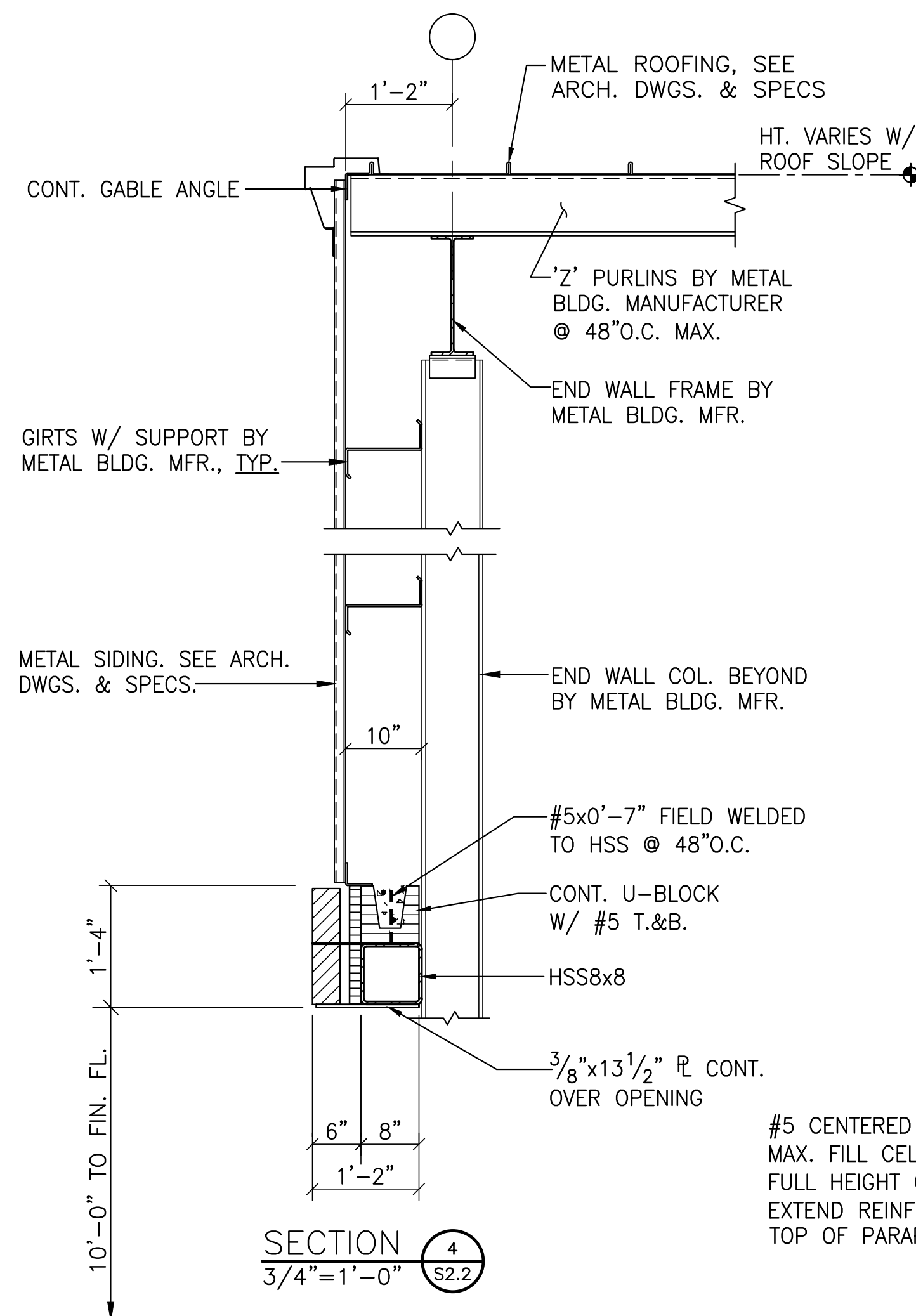
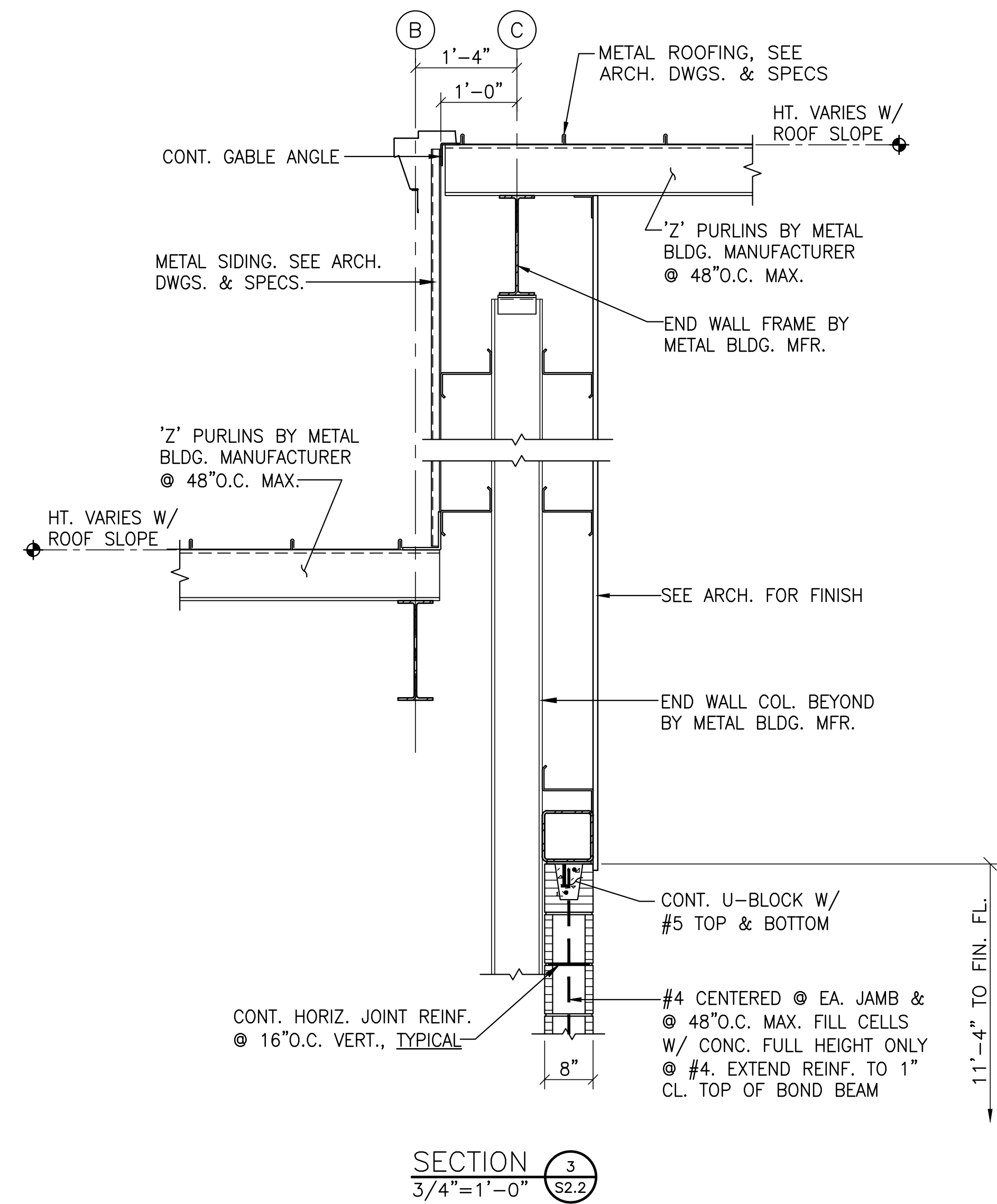
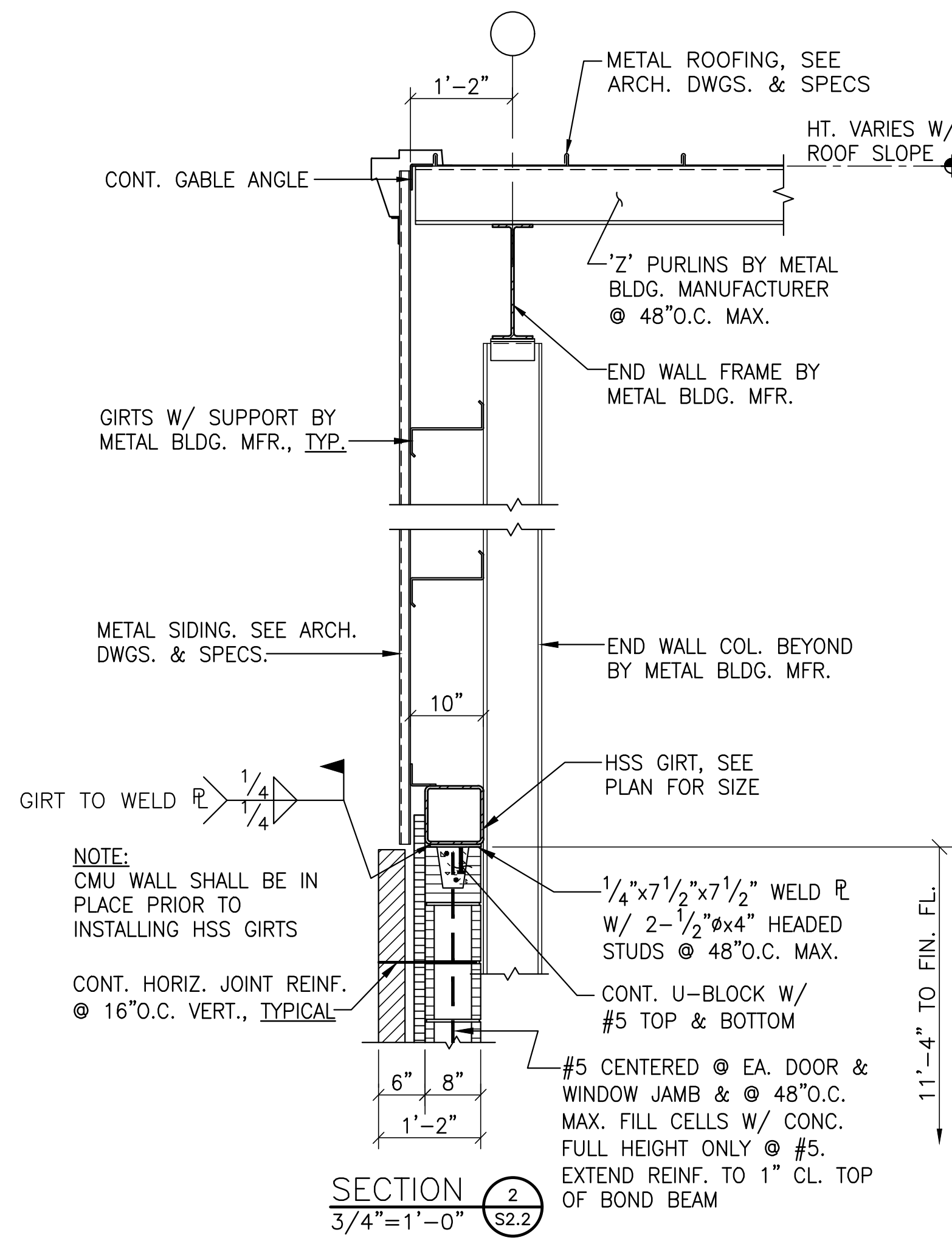
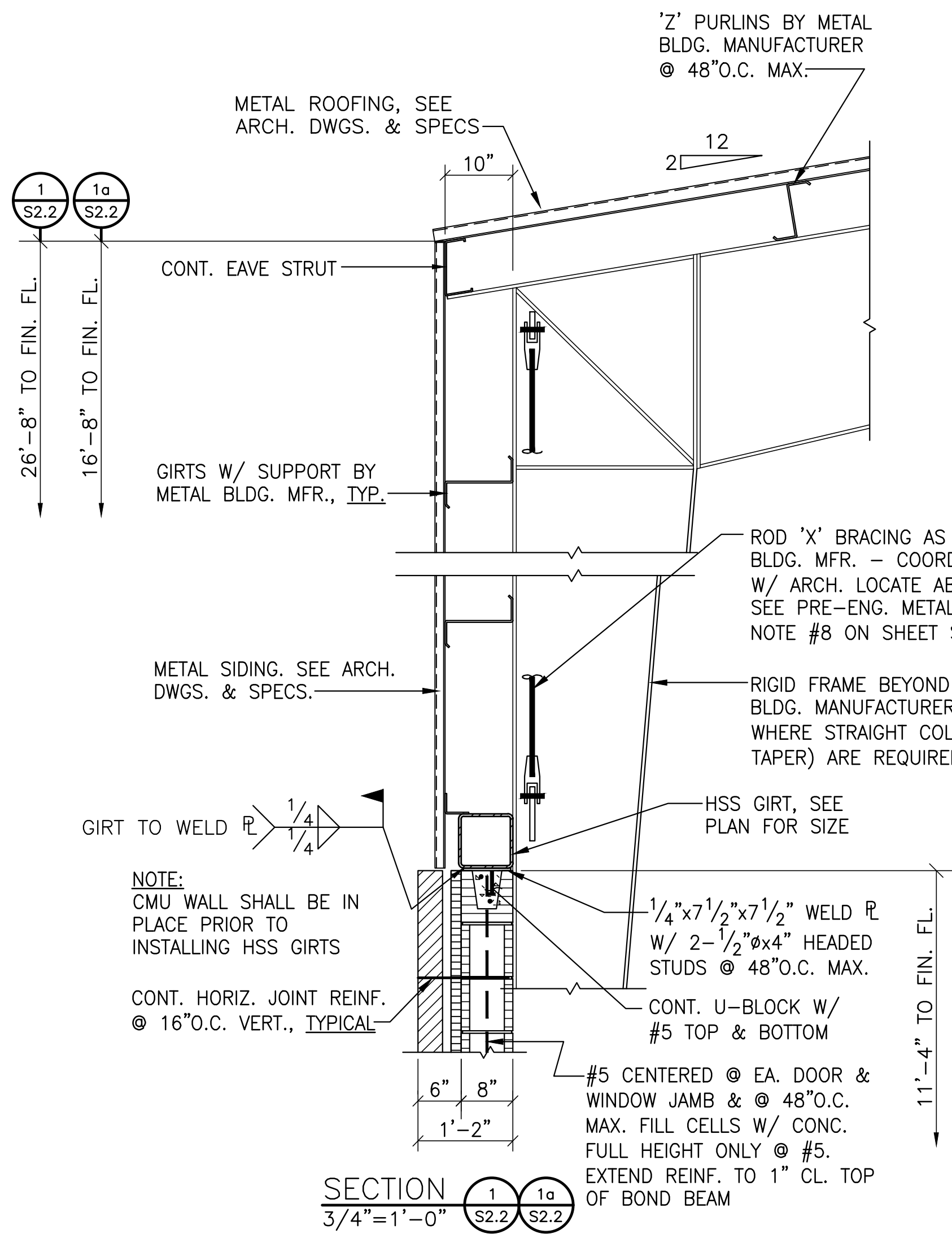
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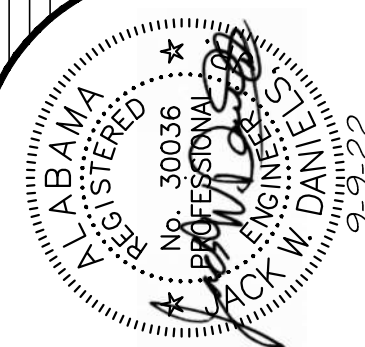
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GYM ADDITION  
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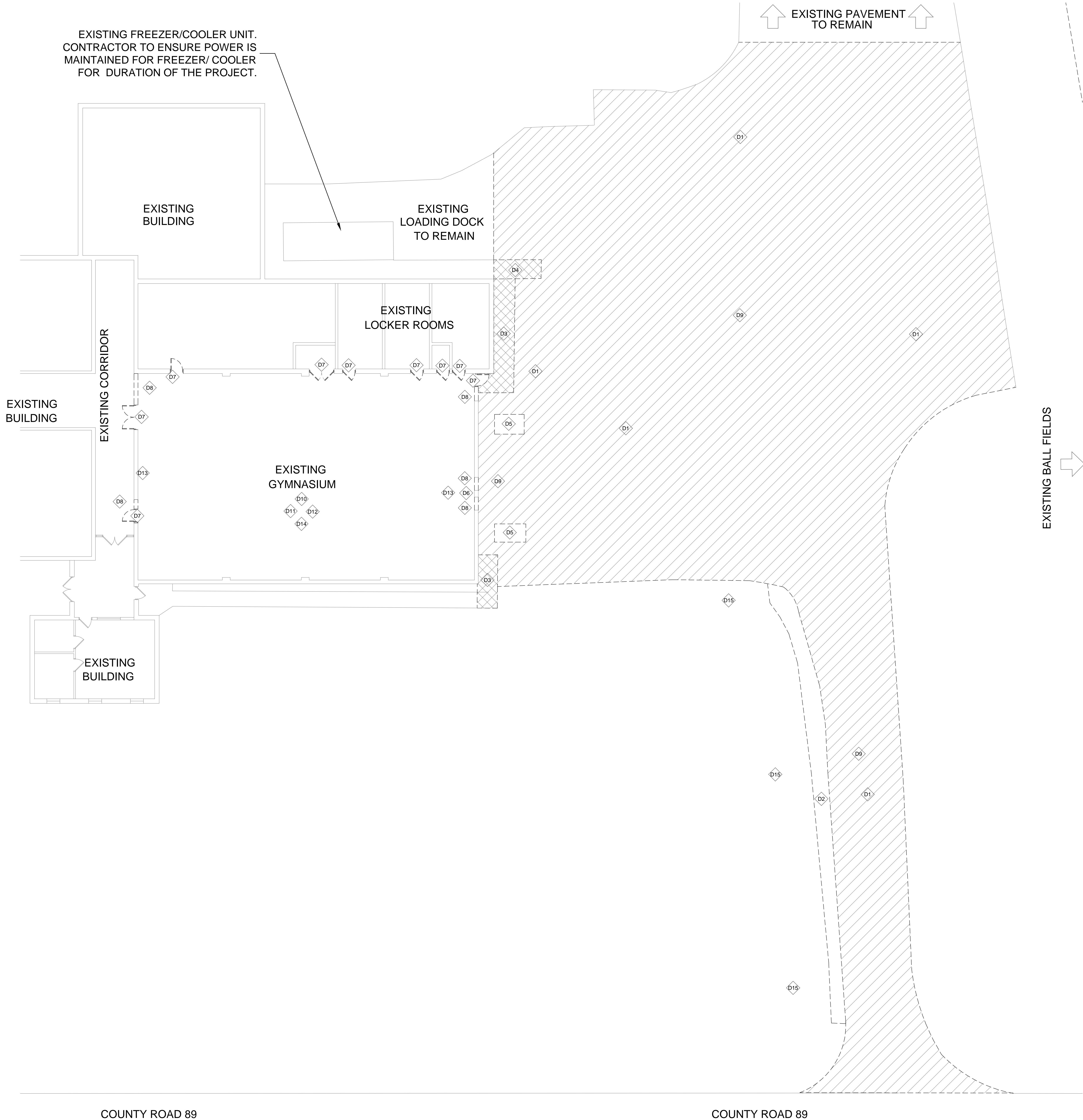


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MCKEE JOB # :	21.269
DRAWN BY :	RAS
DATE :	09.09.2022
REVISED DATE :	
REVISED DATE :	
REVISED DATE :	

SHEET NO. : S2.2



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DEMOLITION PLAN LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	EXISTING ASPHALT BE DEMOLISHED
	EXISTING CONCRETE BE DEMOLISHED
D1	REMOVE EXISTING ASPHALT PAVING TO EXTENTS INDICATED ON CIVIL DRAWINGS. REWORK GRADING PER CIVIL DRAWINGS.
D2	REMOVE EXISTING ASPHALT FLUME AND REWORK GRADING FOR NEW CONSTRUCTION PER CIVIL DRAWINGS.
D3	(ALTERNATE - SEE SPECS) REMOVE EXISTING CONCRETE SIDEWALKS TO EXTENTS INDICATED ON CIVIL DRAWINGS.
D4	REMOVE EXISTING CONCRETE RAMP TO EXTENTS INDICATED ON CIVIL DRAWINGS.
D5	REMOVE AND RELOCATE EXISTING MECHANICAL AIR UNITS AND EXISTING EXTERIOR DUCTWORK. REPURPOSE FOR NEW GYM. SEE MECHANICAL.
D6	(ALTERNATE - SEE SPECS) REMOVE AND RELOCATE EXISTING MECHANICAL WALL FAN AND PREPARE REMAINING VOID FOR BLOCK AND BRICK INFILL. SEE ARCHITECTURAL AND MECHANICAL.
D7	(ALTERNATE - SEE SPECS) REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY. PREPARE FOR NEW CONSTRUCTION. SEE ARCHITECTURAL.
D8	(ALTERNATE - SEE SPECS) REMOVE EXISTING WALL AS SHOWN REQUIRED FOR NEW CONSTRUCTION.
D9	SEE CIVIL DRAWINGS FOR REMOVAL OR REWORKING OF ALL EXISTING SITE UTILITIES.
D10	SEE MECHANICAL DRAWINGS FOR DEMOLITION, RELOCATION, AND NEW CONSTRUCTION OF MECHANICAL SYSTEMS (INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, UNITS, ETC).
D11	SEE PLUMBING DRAWINGS FOR DEMOLITION, RELOCATION, AND NEW CONSTRUCTION OF PLUMBING SYSTEMS AND COMPONENTS
D12	SEE ELECTRICAL DRAWINGS FOR DEMOLITION, RELOCATION, AND NEW CONSTRUCTION OF ELECTRICAL SYSTEMS (INCLUDING BUT NOT LIMITED TO LIGHTING, CABLEING, CONDUIT, PANEL-BOARDS, FIRE ALARM, LOW-VOLTAGE, ETC).
D13	(ALTERNATE - SEE SPECS) CAREFULLY REMOVE ALL WALL-HUNG AND ROOF-JOIST-HUNG SPORTS EQUIPMENT (INCLUDING BUT NOT LIMITED TO BASKETBALL GOALS, SCOREBOARDS, WALL PADS, ETC.) AND PROVIDE TO OWNER FOR SALVAGE
D14	(ALTERNATE - SEE SPECS) REMOVE EXISTING RUBBER BASE. CLEAN AND PREPARE EXISTING FLOORING FOR NEW FLOOR FINISH IN ACCORDANCE WITH NEW FLOORING MANUFACTURER'S INSTRUCTIONS. SEE ARCHITECTURAL.
D15	REMOVE EXISTING FENCE ALONG EXISTING ASPHALT DRIVE AND FLUME THAT WILL BE DEMOLISHED. INSTALL TEMPORARY CONSTRUCTION FENCING PER SPECS.

SITE OF WORK EXAMINATION
THESE DRAWINGS WERE COMPILED BY THE ARCHITECT FROM THE OWNER'S RECORD DRAWINGS AND FROM ON-SITE OBSERVATIONS TO INDICATE THE BUILDING ARRANGEMENT.
ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE PREMISES AND ALL CONDITIONS THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.
DRAWINGS ARE DIMENSIONED FOR BIDDING PURPOSES ONLY. CONTRACTORS SHALL MEASURE ALL EXISTING WORK AT THE PREMISES AND VERIFY ALL DIMENSIONS NEEDED TO PROPERLY INTERFACE IMPROVEMENTS WITH ALL EXISTING ELEMENTS WHICH ARE TO REMAIN.

GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA



**McKee and Associates**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE : DEMOLITION PLAN

MCKEE JOB # : 21.269

DRAWN BY : AJB

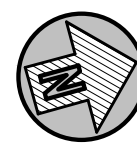
DATE: 9.9.22

REVISED DATE:

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REVISED DATE:

SHEET NO. : **D1.1**



**DEMOLITION PLAN**  
SCALE: 3/32" = 1'-0"



EXISTING PAVEMENT  
TO REMAIN

NEW ASPHALT PAVING  
SEE CIVIL

EXISTING  
SOFTBALL  
FIELD

TO  
GYM ADDITION

TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION

PHIL CAMPBELL, ALABAMA

**McKEE and ASSOCIATES**  
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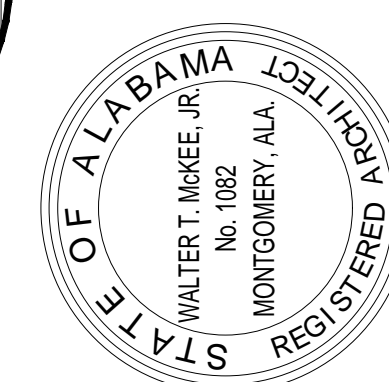
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**ALTERNATE**  
EXISTING GYMNASIUM  
SPACE RENOVATION  
INTO CLASSROOM AND  
LOCKER ROOM SPACES.  
SEE SPECS

# OVERALL FLOOR PLAN

COUNTY ROAD 89

NEW  
ASPHALT  
PAVING  
SEE CIVIL



SHEET TITLE : OVERALL FLOOR PLAN

MCKEE JOB # : 21,269

DRAWN BY :                    AJB

DATE: 9.9.22

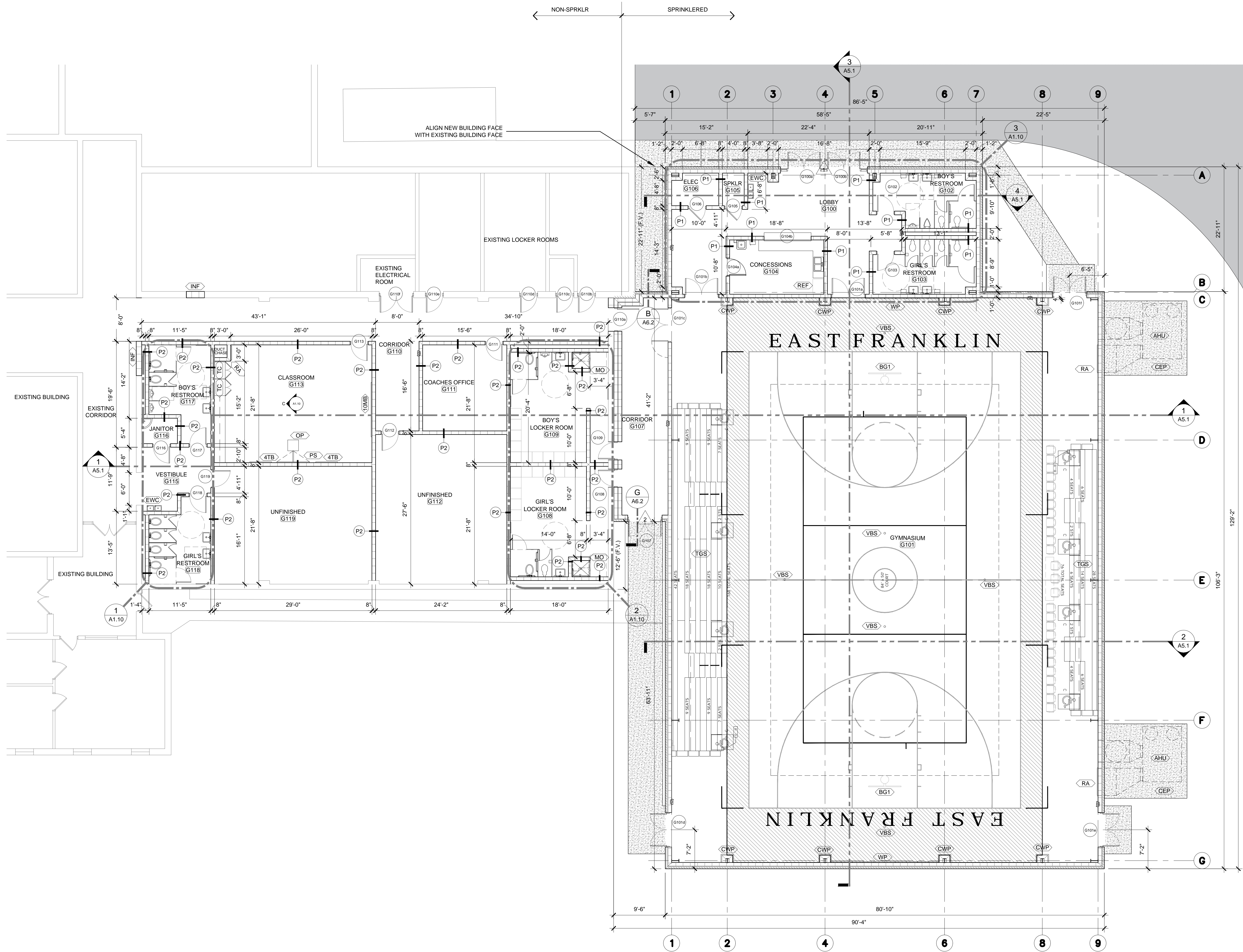
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FLOOR PLAN LEGEND	
SYMBOL	DESCRIPTION
	SCHEDULED DOOR AND FRAME
	SCHEDULED WINDOW UNIT
	SCHEDULED ROOM NAME AND NUMBER
	SECTION / DETAIL SYMBOL
	BUILDING SECTION SYMBOL
	INTERIOR ELEVATION SYMBOL
	WALL PARTITION TYPES
	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
	PREFINISHED METAL DOWNSPOUT TO BOOT
	AIR HANDLING UNIT (SEE MECHANICAL)
	CONCRETE EQUIPMENT PAD (SEE DETAIL A9.1)
	RETURN AIR (SEE MECHANICAL)
	BASKETBALL GOAL - FORWARD FOLD
	WALL PADS
	TELESCOPIC GYMNASIUM SEATING
	VOLLEYBALL SLEEVE
	CEILING RECESSED PROJECTION SCREEN
	CEILING MOUNTED PROJECTOR
	REFRIGERATOR (BY OWNER)
	X-0 MARKER BOARD
	4-0 TACK BOARD
	TEACHERS CABINET
	METAL ACCESS LADDER TO ROOF
	FIBERGLASS COLUMN COVER
	INFILL WHERE EXISTING DOORS AND FRAMES WERE REMOVED WITH 8 CMU BLOCK TO MATCH EXISTING SURROUNDS
	CORNER WALL PADS
	MASONRY OPENING (LINTEL AT 8-0" HEADER)

PLAN NOTES:  
1. PARTITIONS TO BE 8" CMU, EXTENDED AS HIGH AS PRACTICAL OR TO UNDERSIDE OF STRUCTURE, EXCEPT WHERE INDICATED OTHERWISE BY A PARTITION TYPE. SEE "FLOOR PLAN LEGEND" THIS SHEET FOR TYPES.

NEW TELESCOPING BLEACHERS:  
TELESCOPING BLEACHERS WILL BE FURNISHED AND INSTALLED BY THE OWNER'S VENDOR UNDER A SEPARATE CONTRACT. COOPERATE WITH THE BLEACHER VENDOR FOR INSTALLATION PRIOR TO PROJECT CLOSEOUT. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CONNECTIONS TO BLEACHERS THAT ARE A PART OF THIS CONTRACT.

GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA



SHEET TITLE : ARCHITECTURAL FLOOR PLAN

MCKEE JOB # : 21.269

DRAWN BY : AJB

DATE : 9.9.22


REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : A1.1



[illegible]

COURT LENGTH 84 FEET INSIDE END LINES

Architectural drawing of a basketball court showing three views: a side elevation, a top-down view, and a front elevation. The side elevation on the left shows a court with a 7'-0" rectangular section and a semi-circular end with a 1'-0" radius. The top-down view in the center shows a circular court with a 12'-0" diameter and a 4'-0" rectangular section. The front elevation on the right shows a court with a 15'-0" rectangular section and a semi-circular end with a 12'-0" radius. Dimensions are provided in feet and inches.

GENERAL NOTES	
1.	WALL PADS AND CRASH PADS TO BE INSTALLED WITH BOTTOM NOT MORE THAN 4" ABOVE THE FLOOR FINISH.
2.	PROVIDE COURT MARKINGS, DIMENSIONS, AND ASSOCIATED EQUIPMENT IN ACCORDANCE WITH THE REGULATIONS OF THE ALABAMA HIGH SCHOOL ATHLETIC ASSOCIATION. CONTRACTOR SHALL PROVIDE A LETTER OR REPORT, WHEREIN THE CONTRACTOR CERTIFIES THAT THE COURT LAYOUT AND MARKINGS MEET THESE REGULATIONS.
3.	SOLID COLOR AREAS, STRIPING, AND OTHER MARKINGS SHALL BE IN COLORS THAT WILL BE CHOSEN BY THE OWNER DURING THE SHOP DRAWING OR SUBMITTAL PROCESS.
4.	WOOD COURT FLOORINGS SHALL BE TO THE FACES OF THE WALLS, FULL LIMITS OF THE GYMNASIUM SPACE.
5.	STRIPING AND MARKINGS SHALL BE 2" WIDE UNLESS OTHERWISE NOTED.

COURT and EQUIPMENT KEYS	
MARK	DESCRIPTION
⋄BGF	BASKETBALL GOAL-FORWARD FOLD
⋄SB	WALL MOUNTED SCOREBOARD
⋄ST1	MAIN COURT STAIN COLOR 1
⋄ST2	COURT ACCENT STAIN COLOR 2
⋄THD	PROVIDE NEW ALUMINUM THRESHOLD (SADDLE) AT DOOR TRANSITION.
⋄VBS	VOLLEYBALL STANDARD FOR NET POLE
⋄WP	WALL PADS

GYM ADDITION  
 TO  
 EAST FRANKLIN JUNIOR HIGH SCHOOL  
 FOR THE  
 FRANKLIN COUNTY BOARD OF EDUCATION  
 PHIL CAMPBELL, ALABAMA

PHIL CAMPBELL, ALABAMA

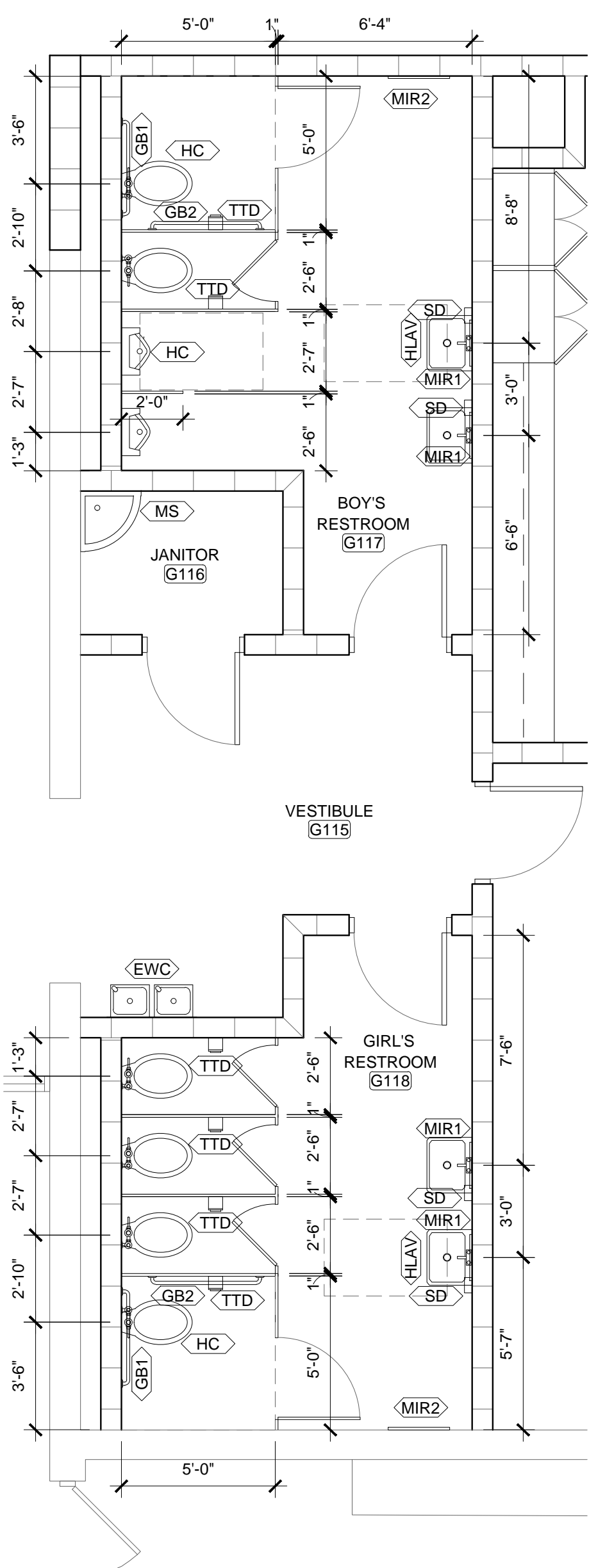
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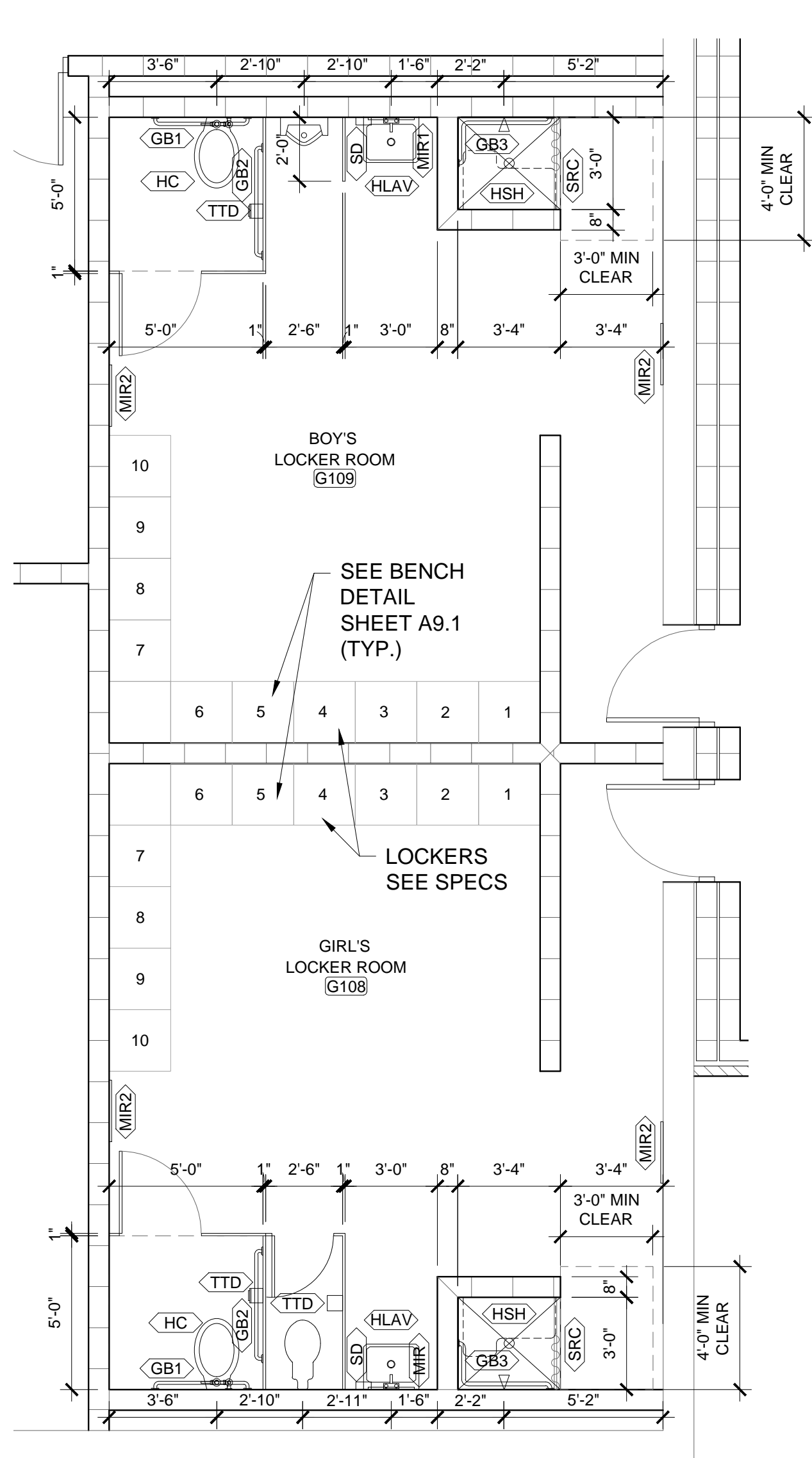


SHEET NO.: **A1.2**

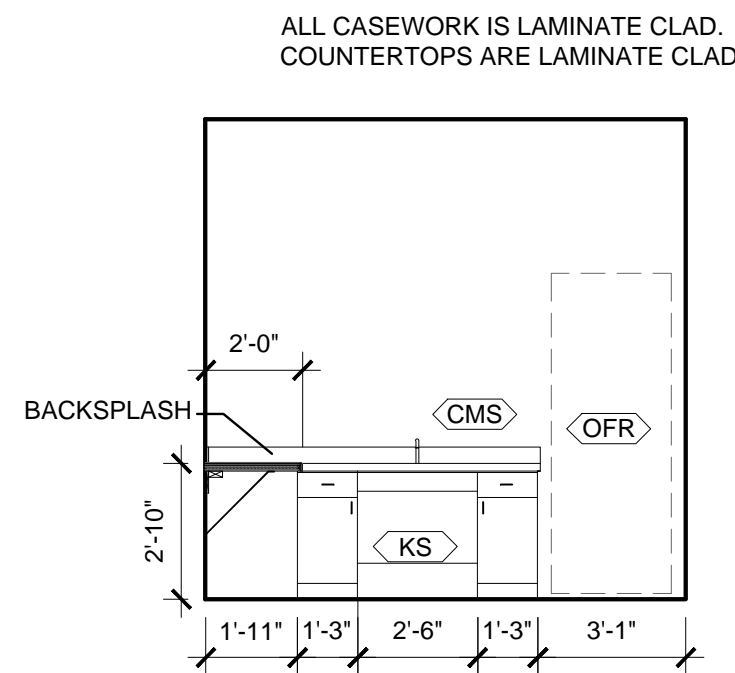




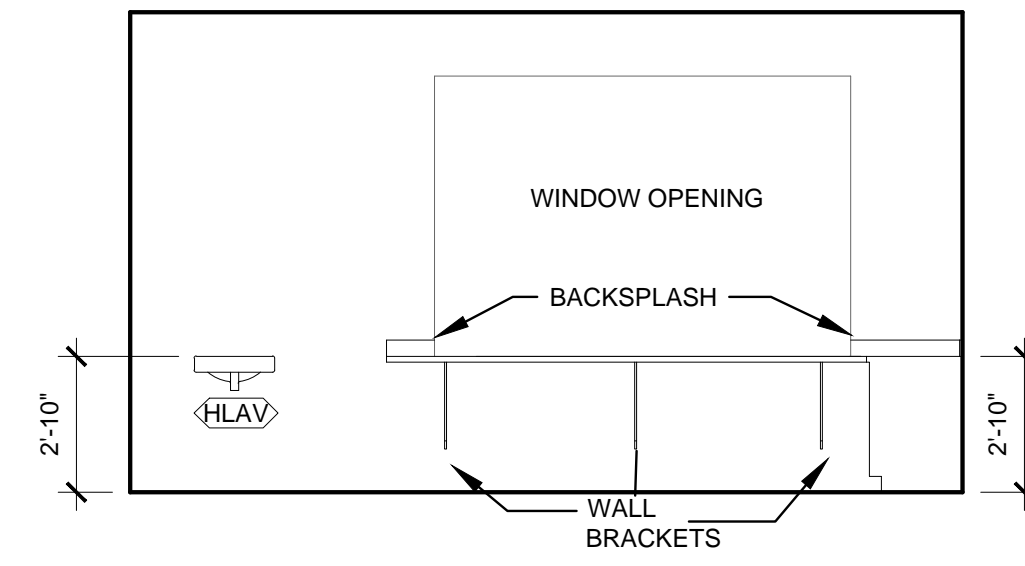
1 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



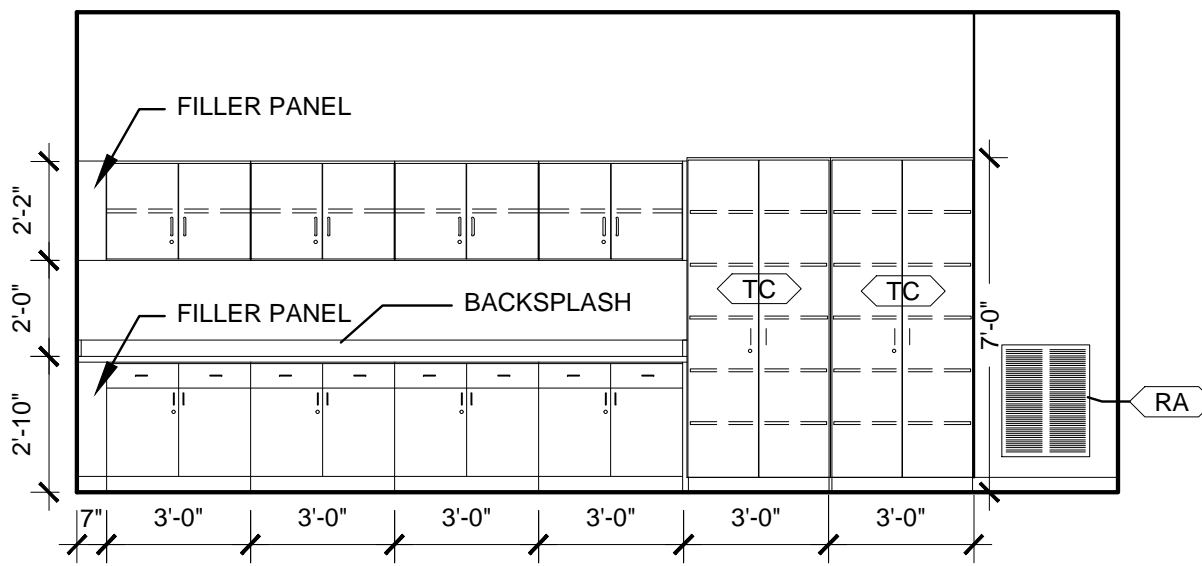
2 ENLARGED PLAN  
SCALE: 1/4" = 1'-0"



A CONCESSIONS ELEV.  
SCALE: 1/4" = 1'-0"



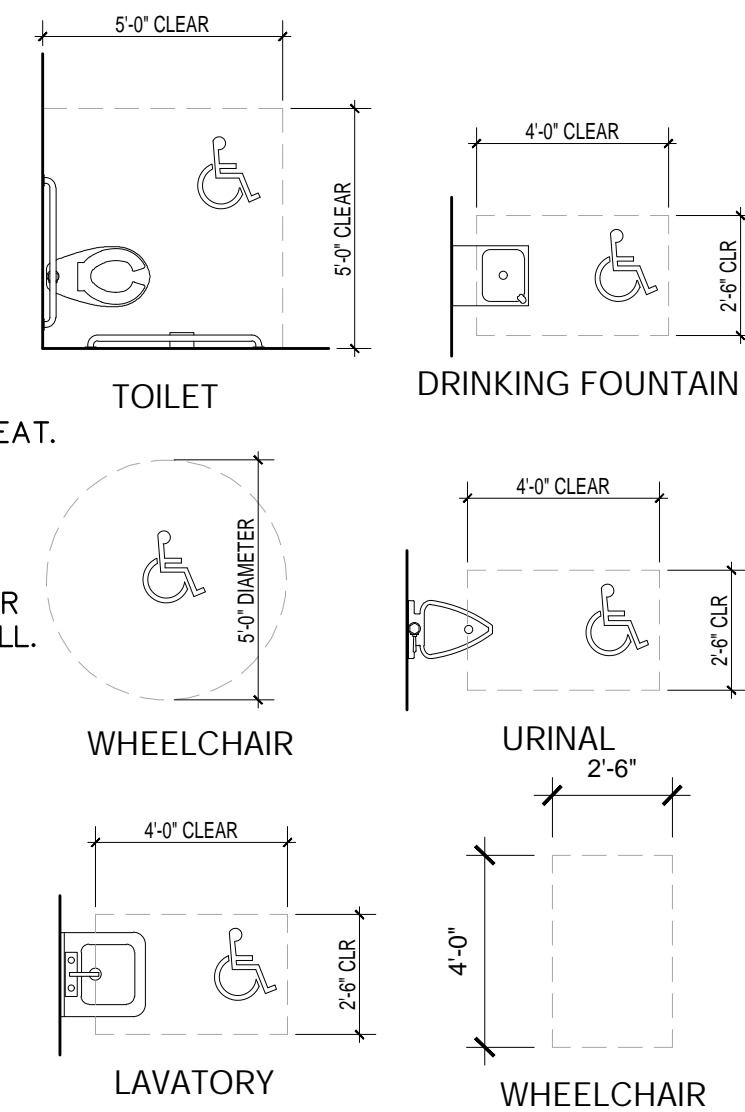
B CONCESSIONS ELEV.  
SCALE: 1/4" = 1'-0"



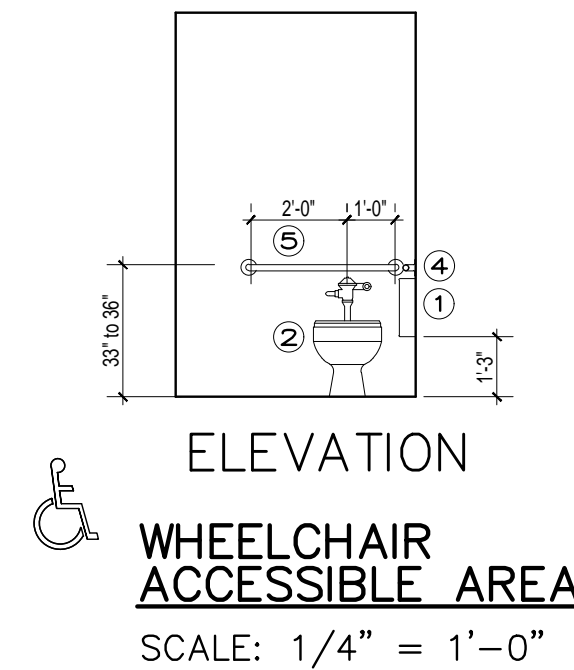
C CLASSROOM ELEV.  
SCALE: 1/4" = 1'-0"

### KEY NOTES

- TOILET PAPER DISPENSER SHALL BE 7 IN. MIN. and 9 IN. MAX. IN FRONT OF WATER CLOSET MEASURED TO CENTERLINE OF DISPENSER. THE DISPENSER OUTLET SHALL BE 15 IN. MIN. and 48 IN. MAX. ABOVE FLOOR AND NOT BE LOCATED BEHIND GRAB BARS.
- WATER CLOSET HEIGHT TO BE 17 IN. TO 19 IN. MEASURED TO TOP OF SEAT.
- WHEELCHAIR ACCESSIBLE STALLS SHALL BE 60" MINIMUM DEPTH AND WIDTH WITH 32" MINIMUM WIDTH DOOR THAT SWINGS OUT. CENTER LINE OF WATER CLOSET TO BE 16" TO 18" FROM REAR WALL.
- A HORIZONTAL SIDE WALL GRAB BAR 42" LONG MINIMUM, LOCATED 12" MAX. FROM REAR WALL AND EXTENDING 54" MINIMUM FROM REAR WALL.
- THE REAR WALL GRAB BAR SHALL BE 24 IN. LONG MIN., CENTERED ON THE WATER CLOSET. WHERE SPACE PERMITS, THE BAR SHALL BE 36 IN. LONG MIN. WITH THE ADDITIONAL LENGTH PROVIDED ON THE TRANSFER SIDE OF THE WATER CLOSET.
- GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE (TOP) AT THE LOCATION SHOWN AND DOES NOT OBSTRUCT THE CLEAR FLOOR SPACE.
- COAT HOOKS PROVIDED WITHIN TOILET ROOMS SHALL BE 48" MAX. ABOVE THE FLOOR. WHERE PROVIDED A FOLD DOWN SHELF SHALL BE 40" MIN. and 48" MAX. ABOVE FLOOR.



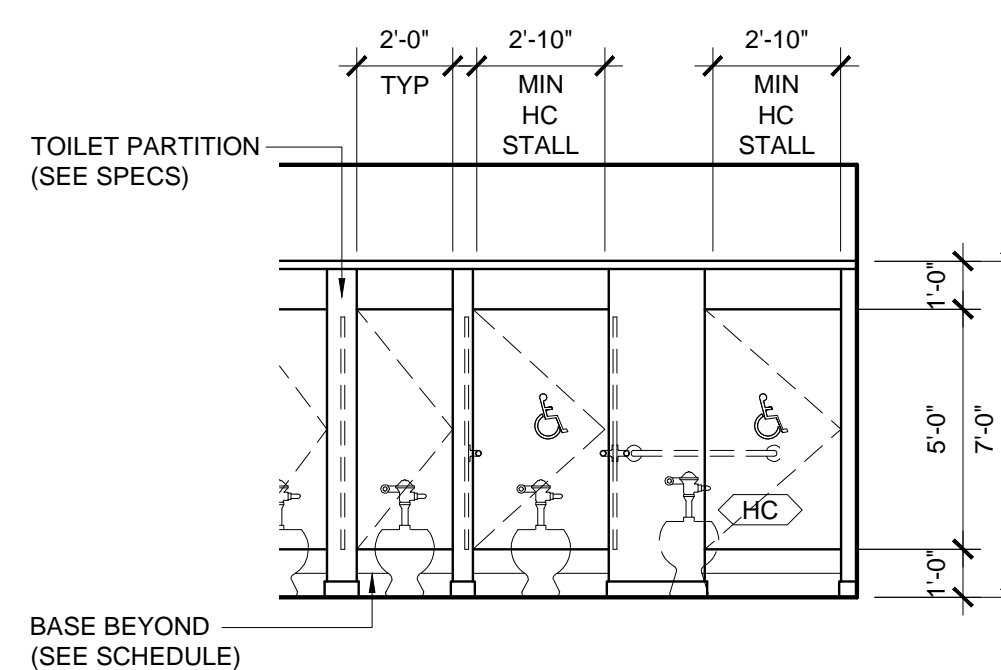
TYPICAL HANDICAP  
CLEAR FLOOR SPACES  
SCALE: 1/4" = 1'-0"



ELEVATION  
WHEELCHAIR  
ACCESSIBLE AREA  
SCALE: 1/4" = 1'-0"

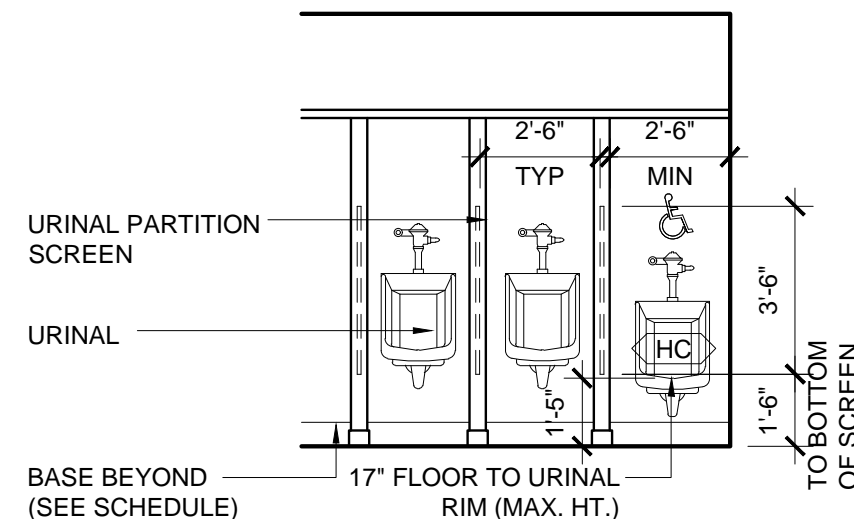
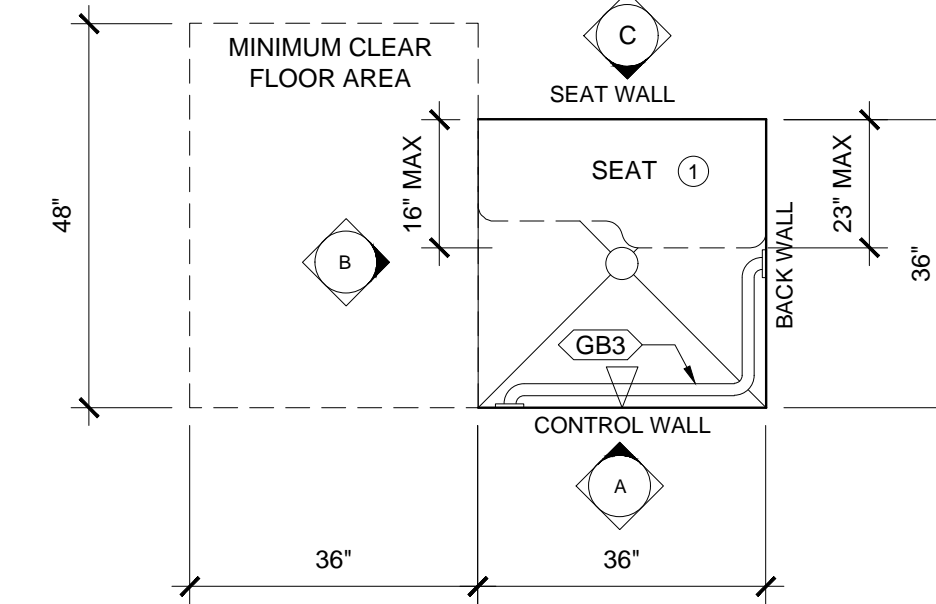
NOTE: THE CENTERLINE OF THE WATER CLOSET SHALL BE 16" MIN. AND 18" MAX. FROM THE SIDE WALL OR PARTITION. DOORWAYS SHALL HAVE A CLEAR OPENING OF 32" MINIMUM. CLEAR OPENING OF DOORWAYS WITH SWING DOORS SHALL BE MEASURED BETWEEN FACE OF DOOR AND STOP, WITH THE DOOR OPEN 90 DEGREES.

ACCESSIBLE  
SHOWER ELEVATIONS  
SCALE: 1/4" = 1'-0"



TYPICAL TOILET SCREEN  
PARTITION ELEVATION  
SCALE: 1/4" = 1'-0"

ACCESSIBLE  
SHOWER PLAN  
SCALE: 1/2" = 1'-0"



TYPICAL URINAL SCREEN  
PARTITION ELEVATION  
SCALE: 1/4" = 1'-0"

### TOILET ACCESSORIES LEGEND

KEYNOTE	DESCRIPTION
TTD	TOILET TISSUE DISPENSER TO BE MOUNTED 6" OC IN FRONT OF TOILET AND OUTLET OF DISPENSER MUST BE BETWEEN 15" & 48" AFF (SEE SPECS)
PTD	PAPER TOWEL DISPENSER TO BE MOUNTED 48" OC AFF (SEE SPECS)
SD	SOAP DISPENSER TO BE MOUNTED WHERE HAND CONTROLS ARE 48" OC AFF (SEE SPECS)
GB1	36" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 6" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33'-36" AFF (SEE SPECS)
GB2	42" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 12" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33'-36" AFF (SEE SPECS)
GB3	CORNER GRAB BAR AND IS TO BE 33'-36" AFF (SEE SPECS)
MIR1	18" X 36" MIRROR WITH THE TOP EDGE AT 76" AFF (SEE SPECS)
MIR2	24" X 48" MIRROR WITH THE TOP EDGE AT 76" AFF (SEE SPECS)
HC	HANDICAPPED ACCESSIBLE TOILET / URINAL TO BE MOUNTED 17" AFF
HLAV	HANDICAPPED ACCESSIBLE WALL-HUNG LAVATORY SEE PLUMBING. SEE SPECS.
HSR	HANDICAPPED ACCESSIBLE SHOWER. SEE ACCESSIBLE SHOWER PLAN, ELEVATION, AND NOTES THIS SHEET
SRC	40" LONG SHOWER ROD AND CURTAIN TO BE MOUNTED 84" AFF
EHD	ELECTRIC HAND DRYER TO BE MOUNTED 48" OC AFF (SEE SPECS)
MS	MOP SINK. SEE PLUMBING. SEE SPECS.

### FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
CORRIDOR	SCHEDULED ROOM NAME AND NUMBER
P	WALL PARTITION TYPES
X AX X X	INTERIOR ELEVATION SYMBOL
WHR	WALL MOUNTED METAL HANDRAIL - PAINT
HGR	METAL HANDRAIL / GUARDRAIL - PAINT
GR	METAL GUARDRAIL - PAINT
EWV	ELECTRIC WATER COOLER - SEE DETAIL ON A-9.1
FEC	FIRE EXTINGUISHER CABINET - SEE DETAIL ON A-9.1
OFR	OWNER FURNISHED / OWNER INSTALLED REFRIGERATOR (N.I.C.)
RA	RETURN AIR (SEE MECHANICAL)
TC	TEACHERS CABINET
CMS	ADA COUNTER-MOUNTED SINK (SEE PLUMBING. SEE SPECS)
KS	ADA KNEE SPACE

### ACCESSIBLE SHOWER NOTES

1	A FOLDING SEAT SHALL BE PROVIDED IN EACH ACCESSIBLE SHOWER STALL AND SHALL BE MOUNTED 17"-19" FROM THE SHOWER FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE SHOWER STALL (SEE SPECS) SEAT SHALL BE MOUNTED SECURELY AND SHALL NOT SLIP DURING USE.
2	A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED AS A FIXED SHOWER HEAD OR AS A HAND-HELD SHOWER SHALL BE PROVIDED (SEE SPECS)
3	ALL CONTROLS, SHOWER HEADS ETC SHALL BE LOCATED ON OPPOSITE WALL FROM SHOWER SEAT (SEE ELEVATIONS FOR MOUNTING HEIGHTS)
4	ONE ACCESSIBLE SHOWER STALL SHALL BE PROVIDED AT EACH TOILET/SHOWER ROOM (SEE PLAN FOR LOCATION). SECOND STALL TO BE A STANDARD SHOWER WITH A FIXED SHOWER HEAD. GRAB BARS AND SHOWER SEAT WILL NOT BE REQUIRED.

SHEET TITLE : ENLARGED PLANS  
AND DETAILS

MCKEE JOB # : 21.269

DRAWN BY : AJB

DATE : 9.9.22

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A1.10

GYM ADDITION

TO

EAST FRANKLIN JUNIOR HIGH SCHOOL

FOR THE

FRANKLIN COUNTY BOARD OF EDUCATION

PHIL CAMPBELL, ALABAMA

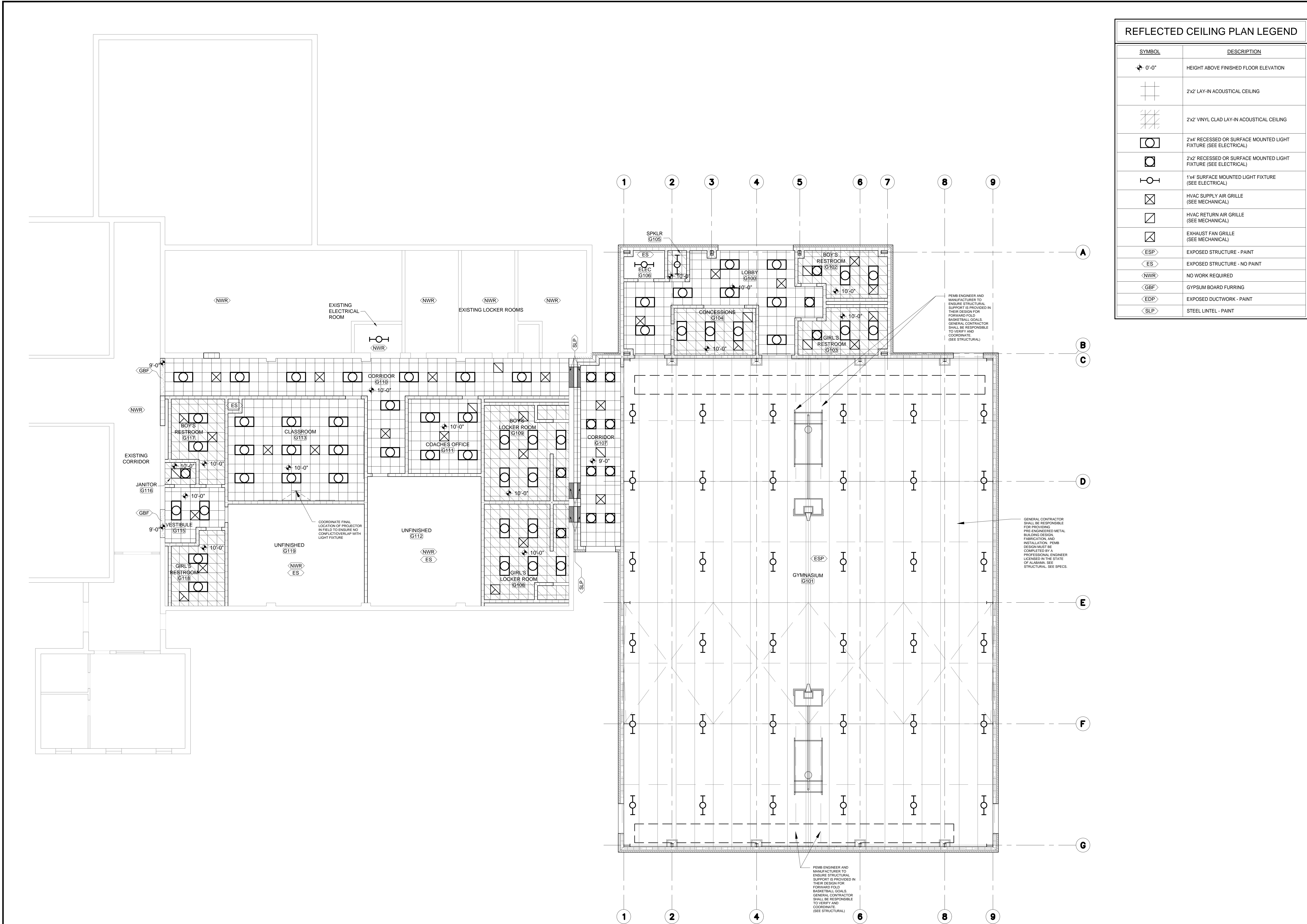
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- Friday, September 23, 2022 5:15:51 PM



REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"

SYMBOL	DESCRIPTION
	HEIGHT ABOVE FINISHED FLOOR ELEVATION
	2x2 LAY-IN ACOUSTICAL CEILING
	2x2 VINYL CLAD LAY-IN ACOUSTICAL CEILING
	2x4 RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	2x2 RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	1x4 SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	HVAC SUPPLY AIR GRILLE (SEE MECHANICAL)
	HVAC RETURN AIR GRILLE (SEE MECHANICAL)
	EXHAUST FAN GRILLE (SEE MECHANICAL)
	EXPOSED STRUCTURE - PAINT
	EXPOSED STRUCTURE - NO PAINT
	NO WORK REQUIRED
	GYPSUM BOARD FURRING
	EXPOSED DUCTWORK - PAINT
	STEEL LINTEL - PAINT

GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA



**McKee and Associates**  
ARCHITECTS, INC.

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SHEET TITLE : REFLECTED CEILING PLAN

MCKEE JOB # : 21.269

DRAWN BY : AJB

DATE : 9.9.22

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : **A2.1**



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NOTE:  
ROOF DETAILS ARE INTENDED TO SERVE AS A GUIDE FOR PROPERLY INTERFACING THE  
REROOF WITH EXISTING CONSTRUCTION. THEY MUST BE MODIFIED AS NEEDED TO ADAPT  
THEM TO VARYING CONDITIONS THAT MAY BE ENCOUNTERED IN THE FIELD.



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

ROOF PLAN LEGEND	
SYMBOL	DESCRIPTION
	SHINGLES
	SINGLE PLY MEMBRANE ROOFING SYSTEM
	METAL ROOF PANELS
	DETAIL SYMBOL
	RIDGE FLASHING - VENTED
	RIDGE FLASHING - NON VENTED
	PREFINISHED METAL GUTTER
	PREFINISHED METAL FASCIA
	PREFINISHED METAL EAVE TRIM
	VALLEY FLASHING
	HIP RIDGE FLASHING
	EXTRUDED ALUMINUM COPING
	CAST STONE COPING
	PREFINISHED METAL COPING
	ROOF DRAIN
	EMERGEGY OVERFLOW ROOF DRAIN
	PREFINISHED METAL SCUPPER
	ROOF CURB
	PACKAGED AIR CONDITIONING UNIT (SEE MECHANICAL)
	CONTINUOUS ROOF TO WALL FLASHING
	EXPANSION JOINT
	PLUMBING VENT
	EXHAUST FAN
	GAS FLUE VENT
	GRAVITY VENT
	ALUMINUM CANOPY
	SUSPENDE ALUMINUM AWNING
	PREFINISHED METAL DOWNSPOUT
	34" GAS PIPING RISER THRU ROOF AND RUN ALONG ROOF (SEE PLUMBING)
	GAS PIPING SUPPORTS (SEE PLUMBING)
	34" WATER LINE RISER THRU ROOF UP TO ROOF HYDRANT (SEE PLUMBING)

GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA



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SHEET TITLE : ROOF PLAN

MCKEE JOB # : 21.269

DRAWN BY : AJB

DATE: 9.9.22

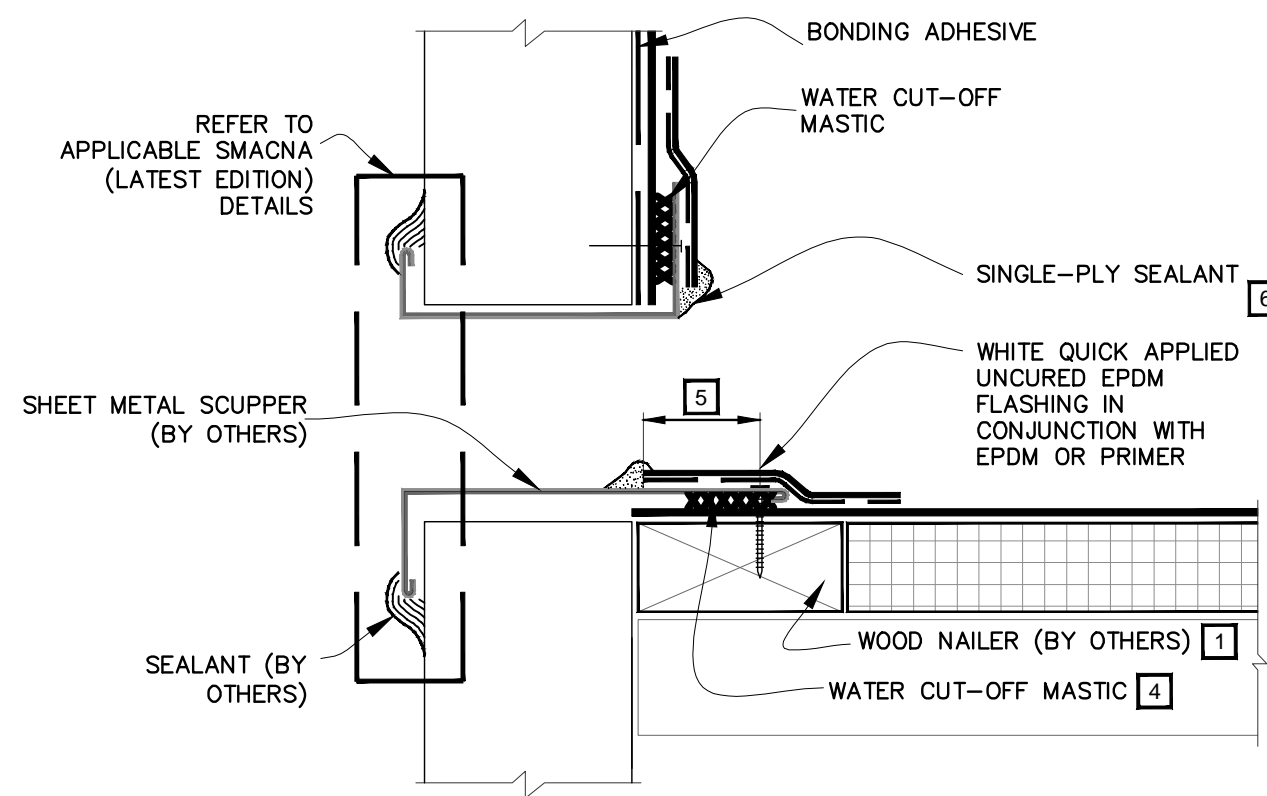
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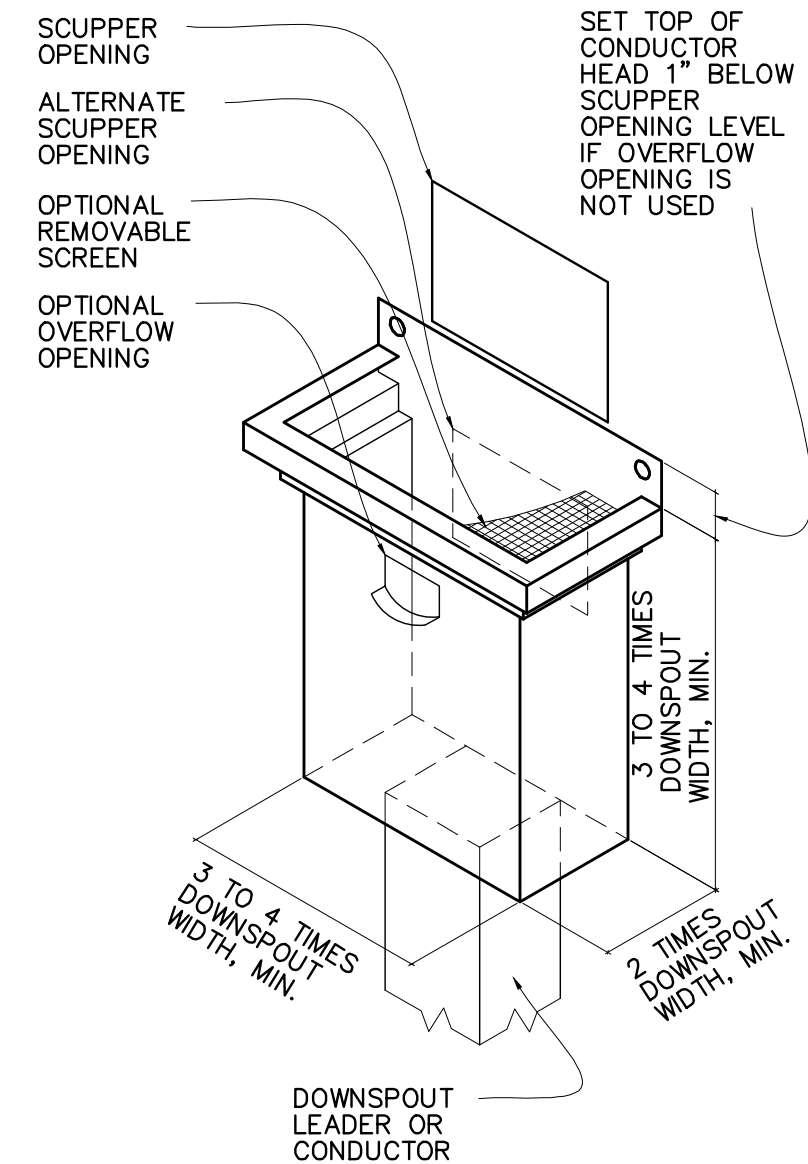
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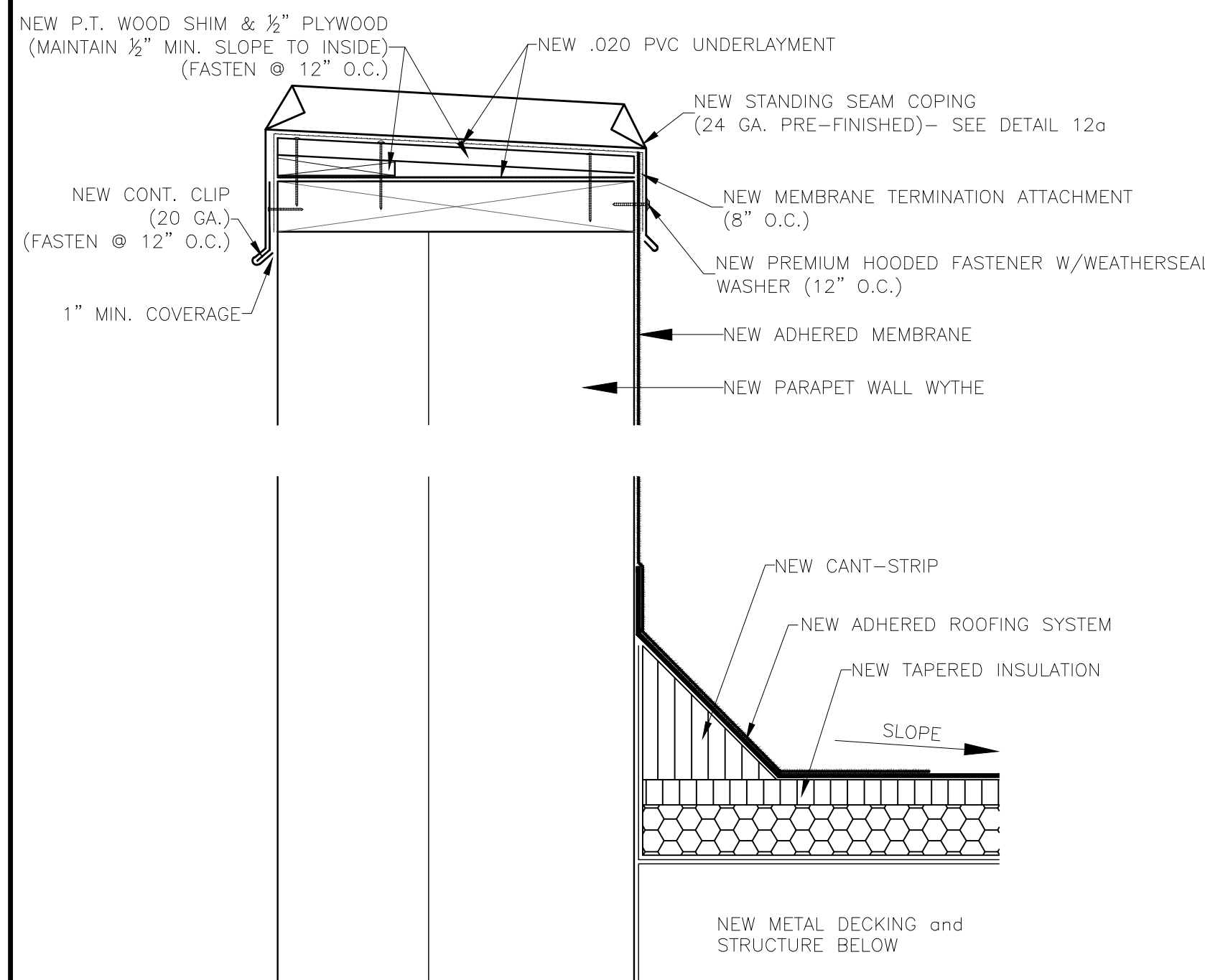
- NOTES:
- WOOD NAILERS ARE INSTALLED ONLY AT SCUPPERS TO SECURE METAL SLEEVE AND MUST EXTEND PAST THE WIDTH OF METAL SLEEVE FLANGE.
  - INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.
  - METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS, SOLDER ALL SCUPPER SEAMS WATER-TIGHT.
  - WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.
  - SCUPPER FLANGES MUST BE TOTALLY COVERED BY QUICK APPLIED UNCURED EPDM FLASHING WITH MINIMUM 2" COVERAGE PAST NAIL HEAD.
  - UNIVERSAL SINGLE-PLY SEALANT IS REQUIRED AT FLASHING EDGES ON SCUPPER EDGE. PRIMER MUST BE USED TO PREPARE SURFACES PRIOR TO THE APPLICATION OF SEALANT.

13 DETAIL AT SCUPPER (TYPICAL)  
SCALE: 1 1/2"=1'-0"

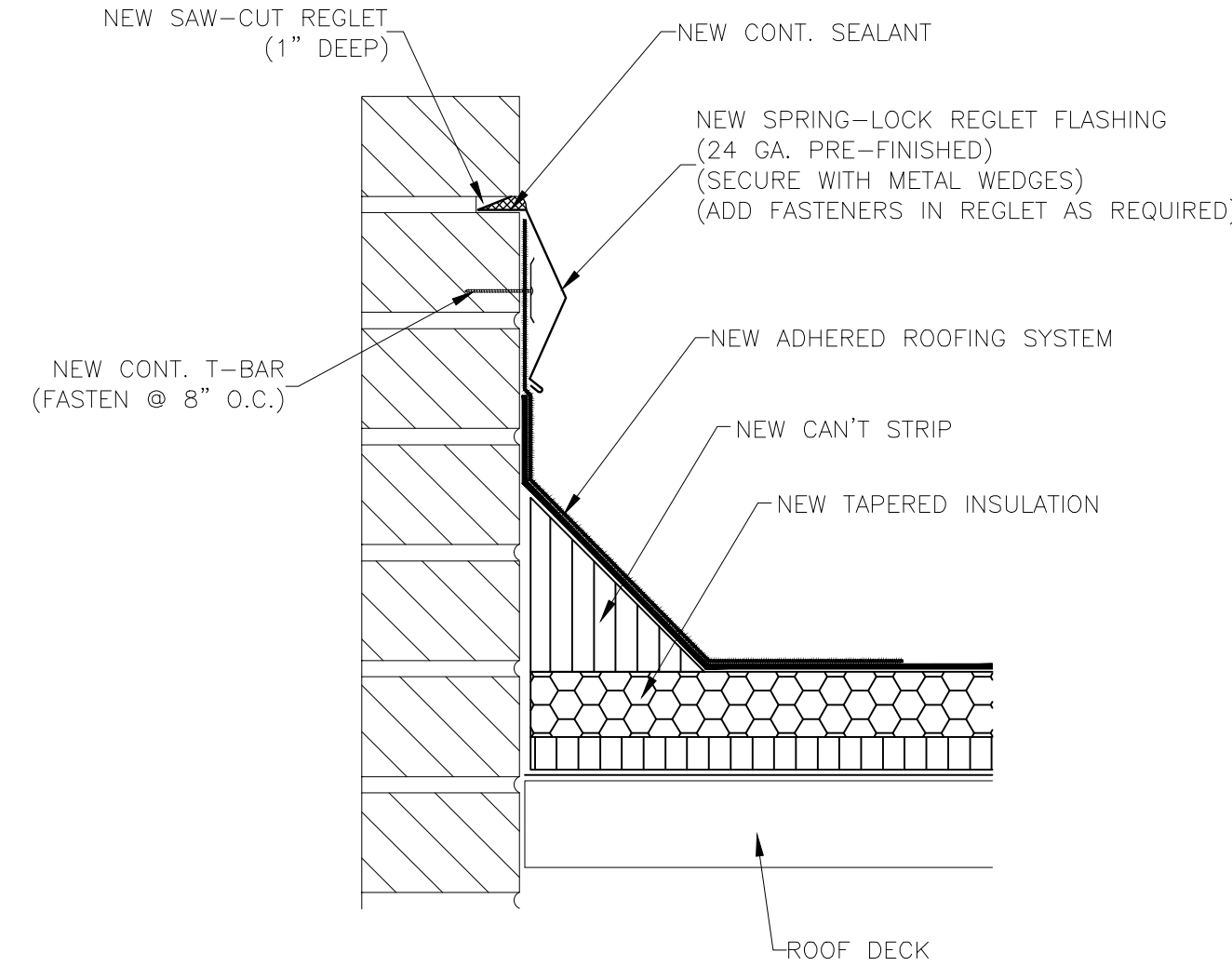


14 DETAIL SCALE: 1 1/2"=1'-0" TYPICAL ROOF SCUPPER (SC)

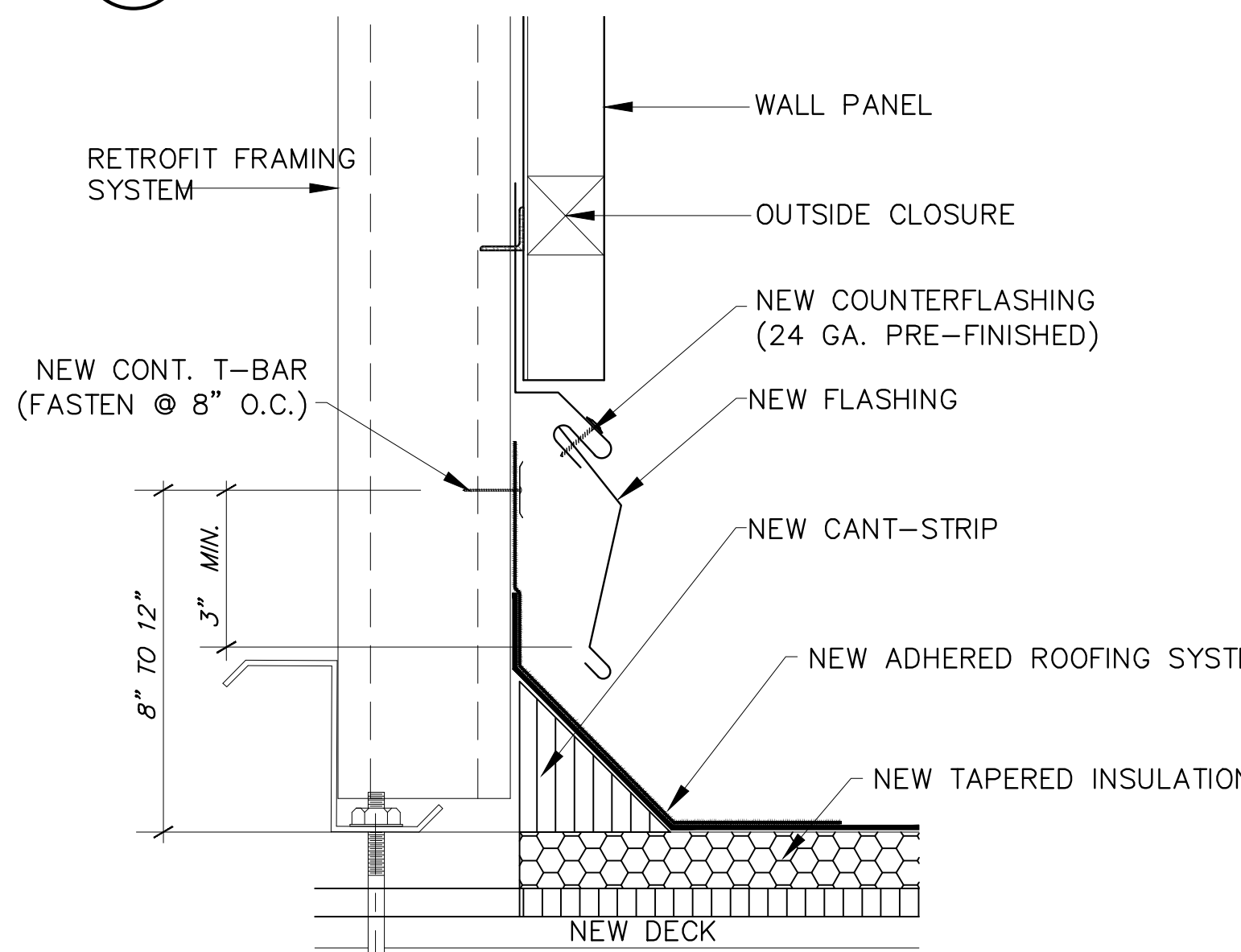
NOTE: ROOF DETAILS ARE INTENDED TO SERVE AS A GUIDE FOR PROPERLY INTERFACING THE REROOF WITH EXISTING CONSTRUCTION. THEY MUST BE MODIFIED AS NEEDED TO ADAPT THEM TO VARYING CONDITIONS THAT MAY BE ENCOUNTERED IN THE FIELD.



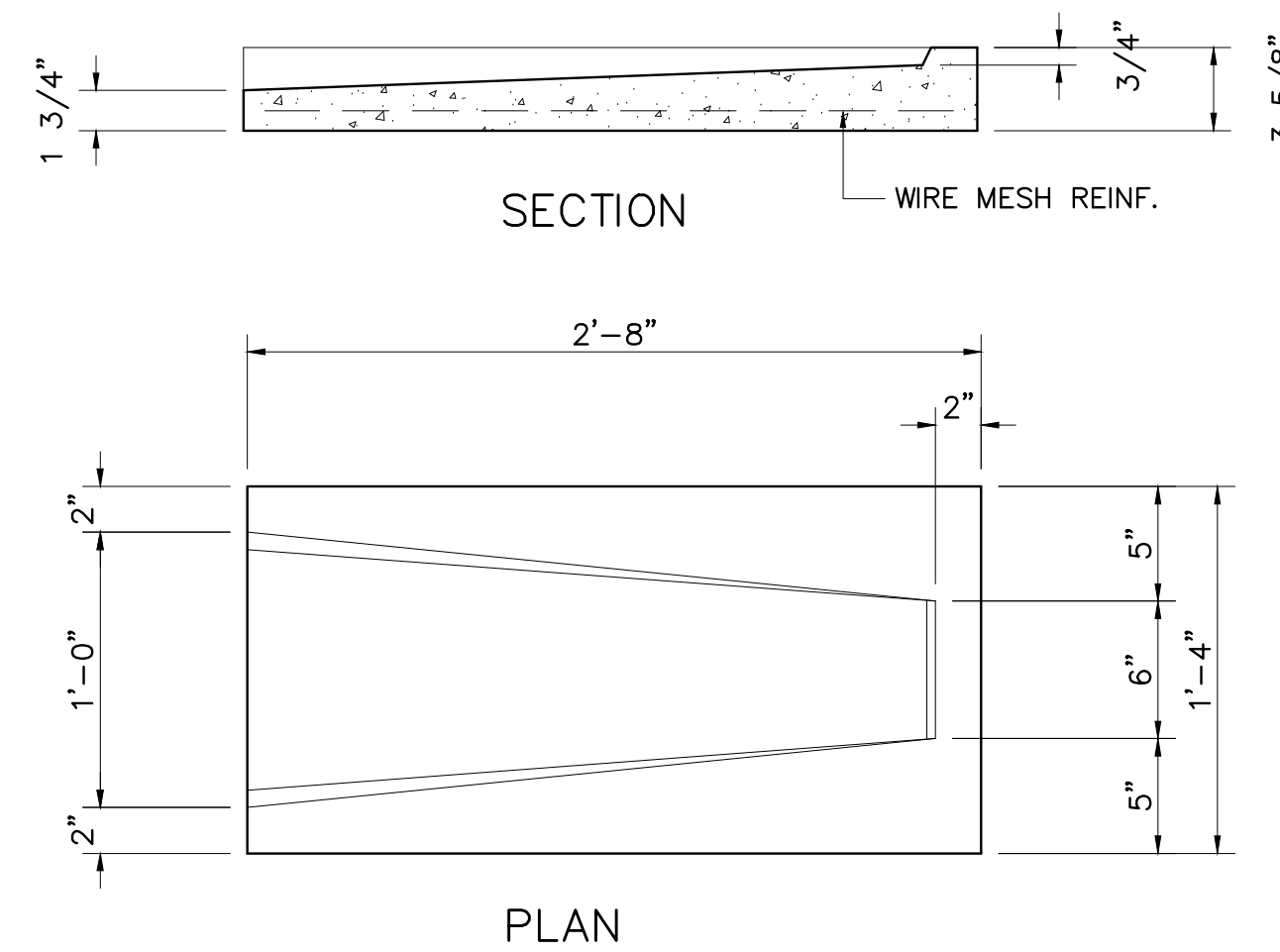
15 DETAIL SCALE: 3"=1'-0" PREFINISHED METAL COPING (PMC)



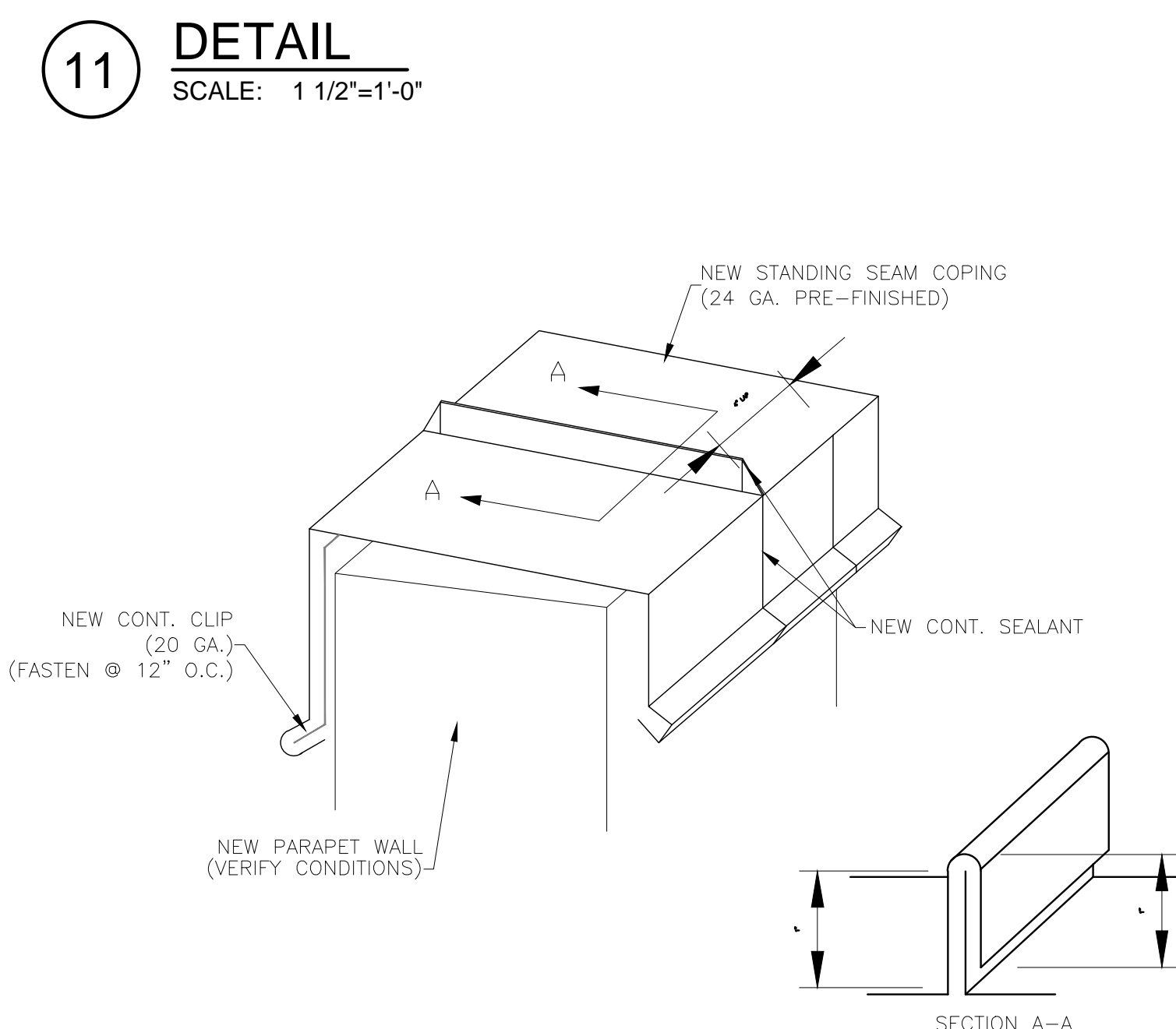
9 DETAIL SCALE: 3"=1'-0" Base Flashing (RTW1)



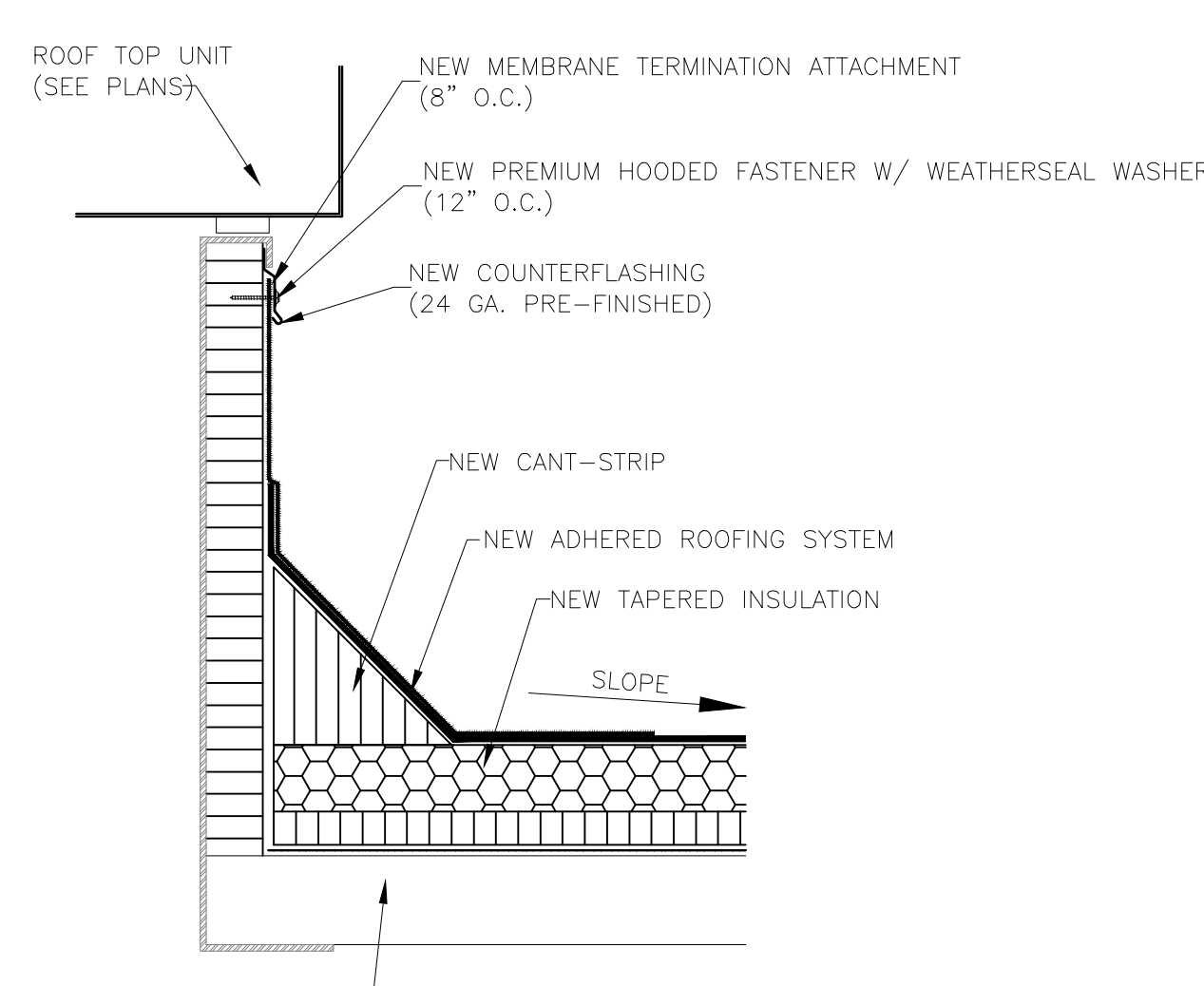
10 DETAIL SCALE: 3"=1'-0" BASE FLASHING AT NEW METAL PANEL WALL (RTW2)



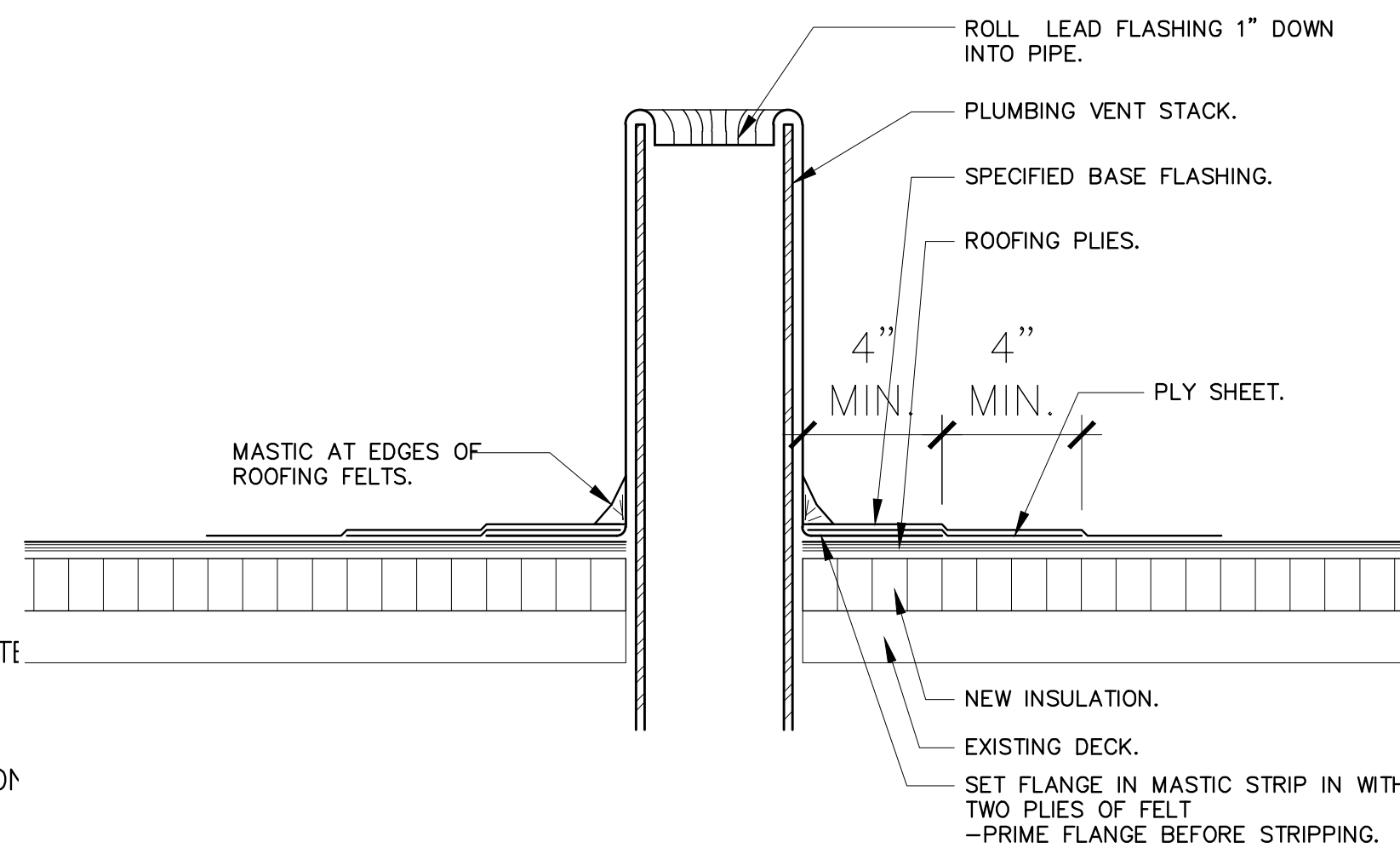
TYPICAL SPLASH BLOCK DETAIL (SB)



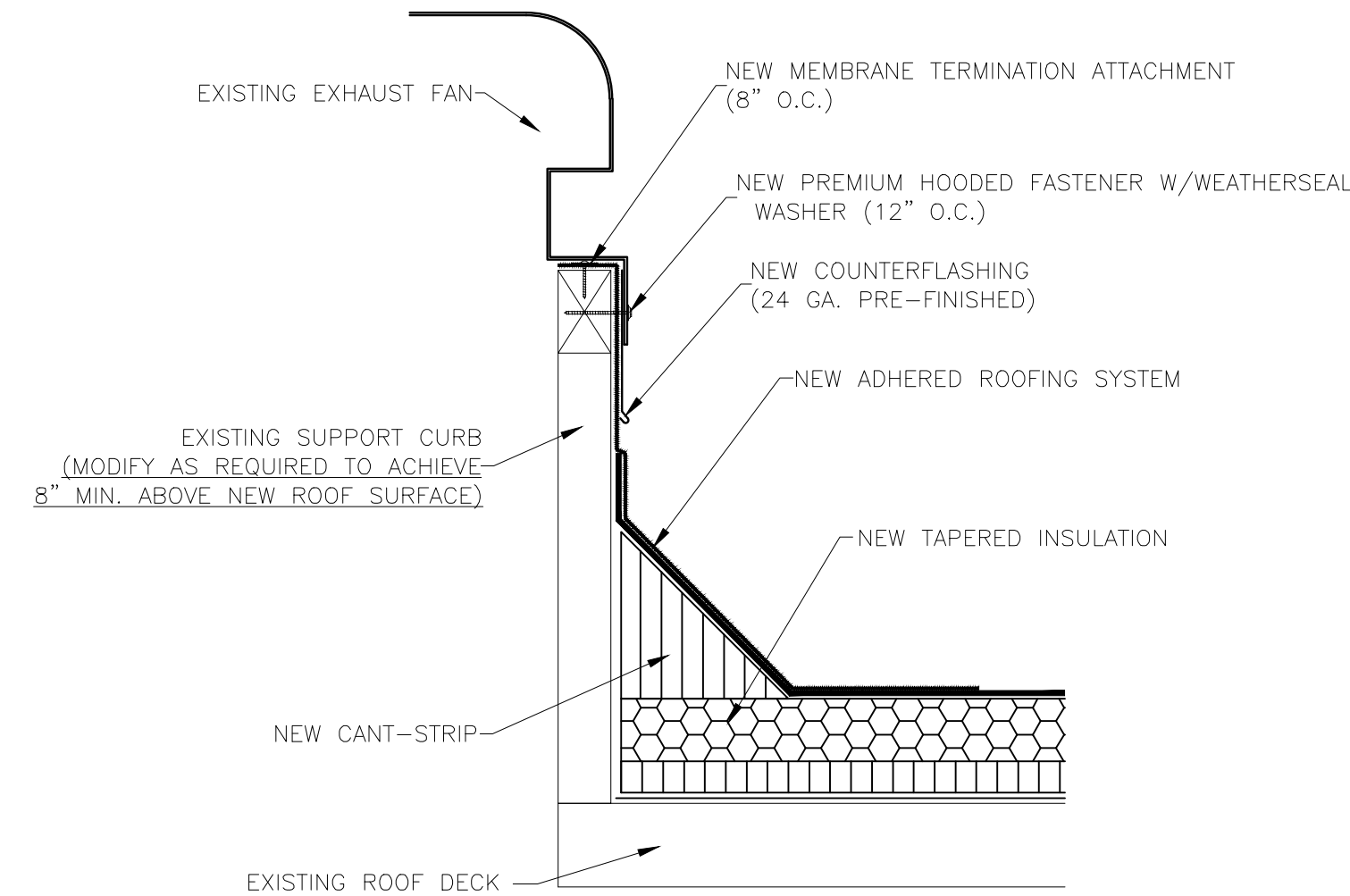
11 DETAIL SCALE: N.T.S. Copping Splice (TYPICAL)



5 DETAIL SCALE: 3"=1'-0" RTU Support Curb (PACU)

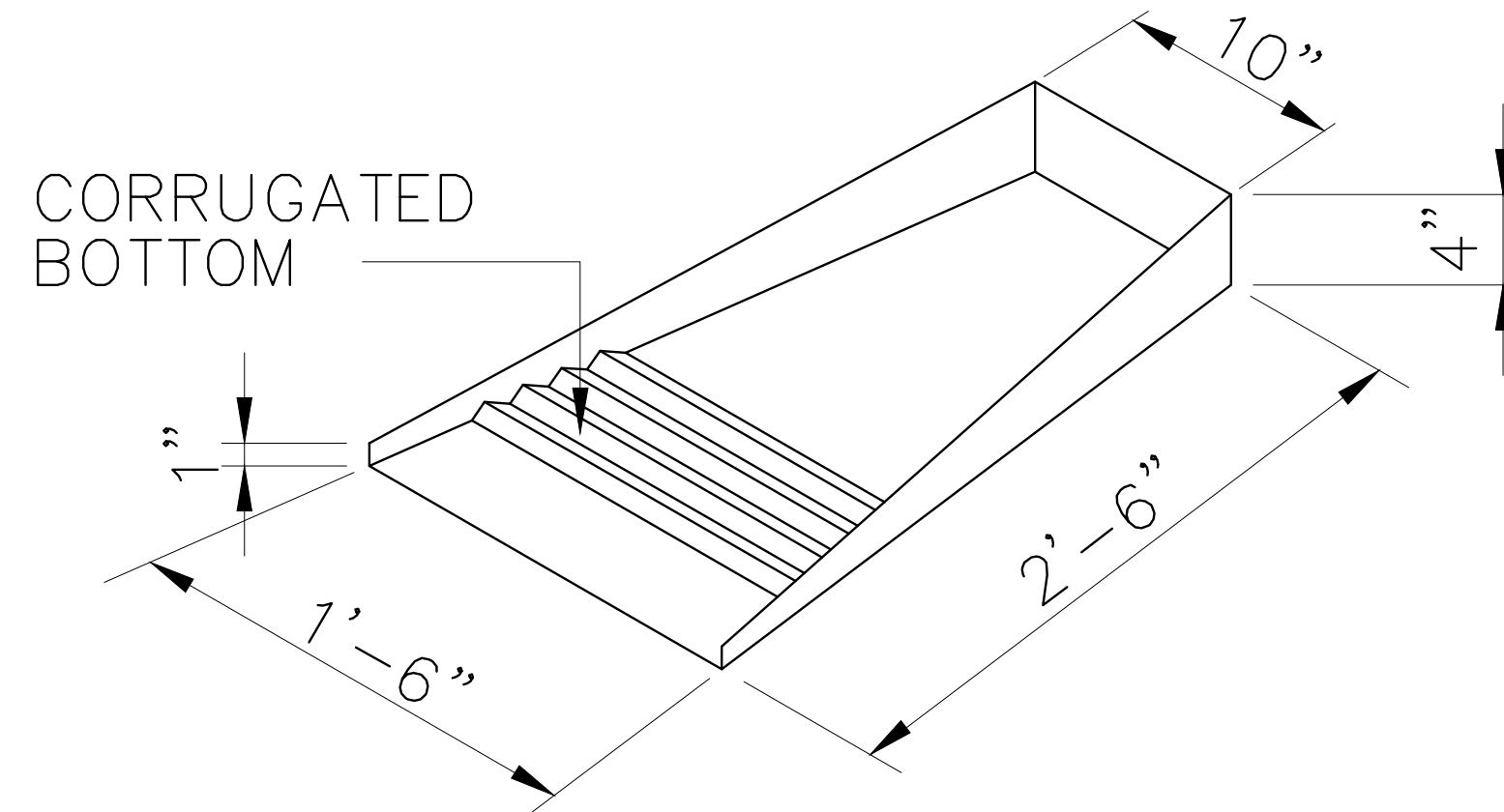


6 DETAIL SCALE: 1 1/2"=1'-0" PLUMBING VENT FLASHING THROUGH FLAT ROOF (PV2)

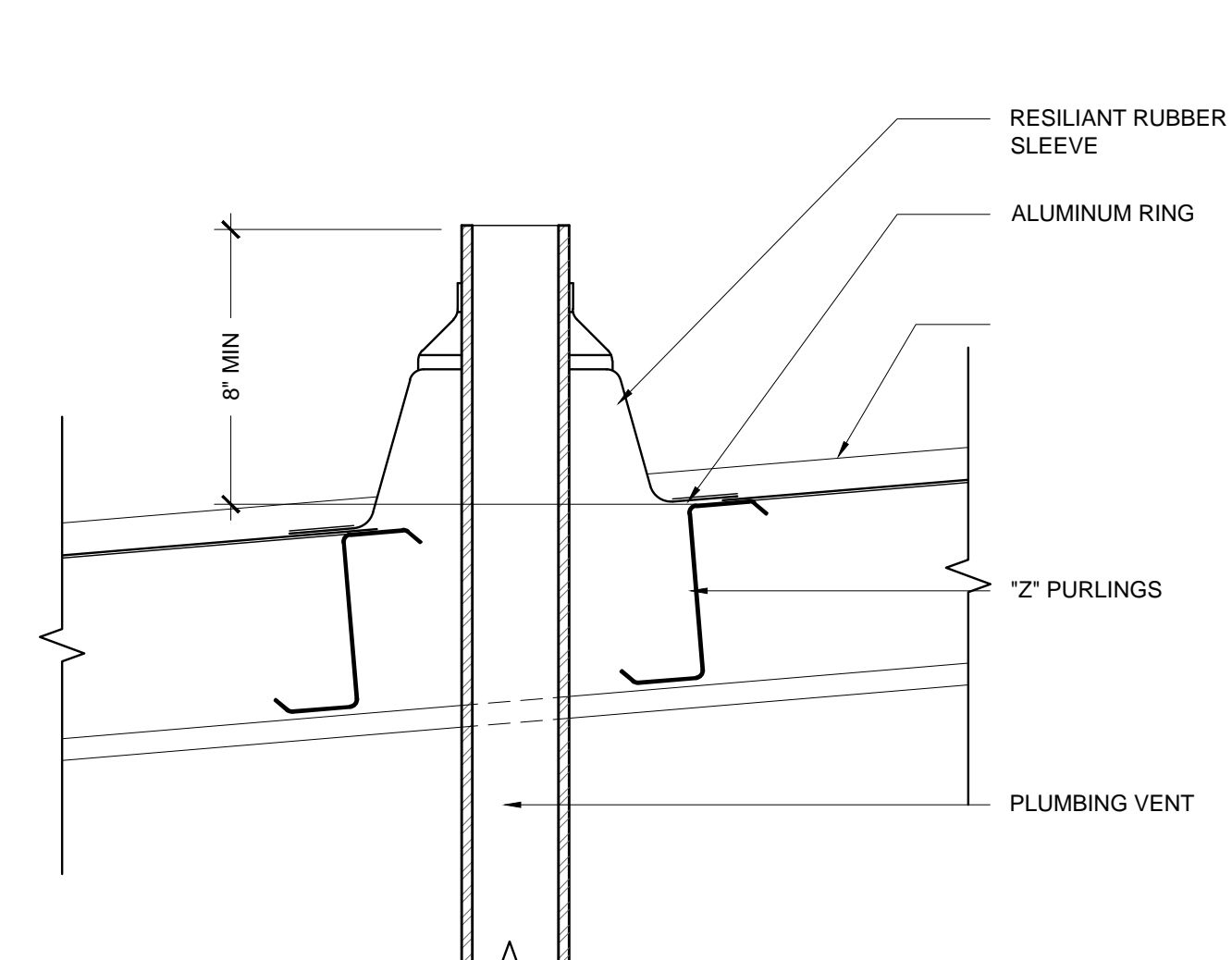


Exhaust Fan Curb Support Detail (EF2)

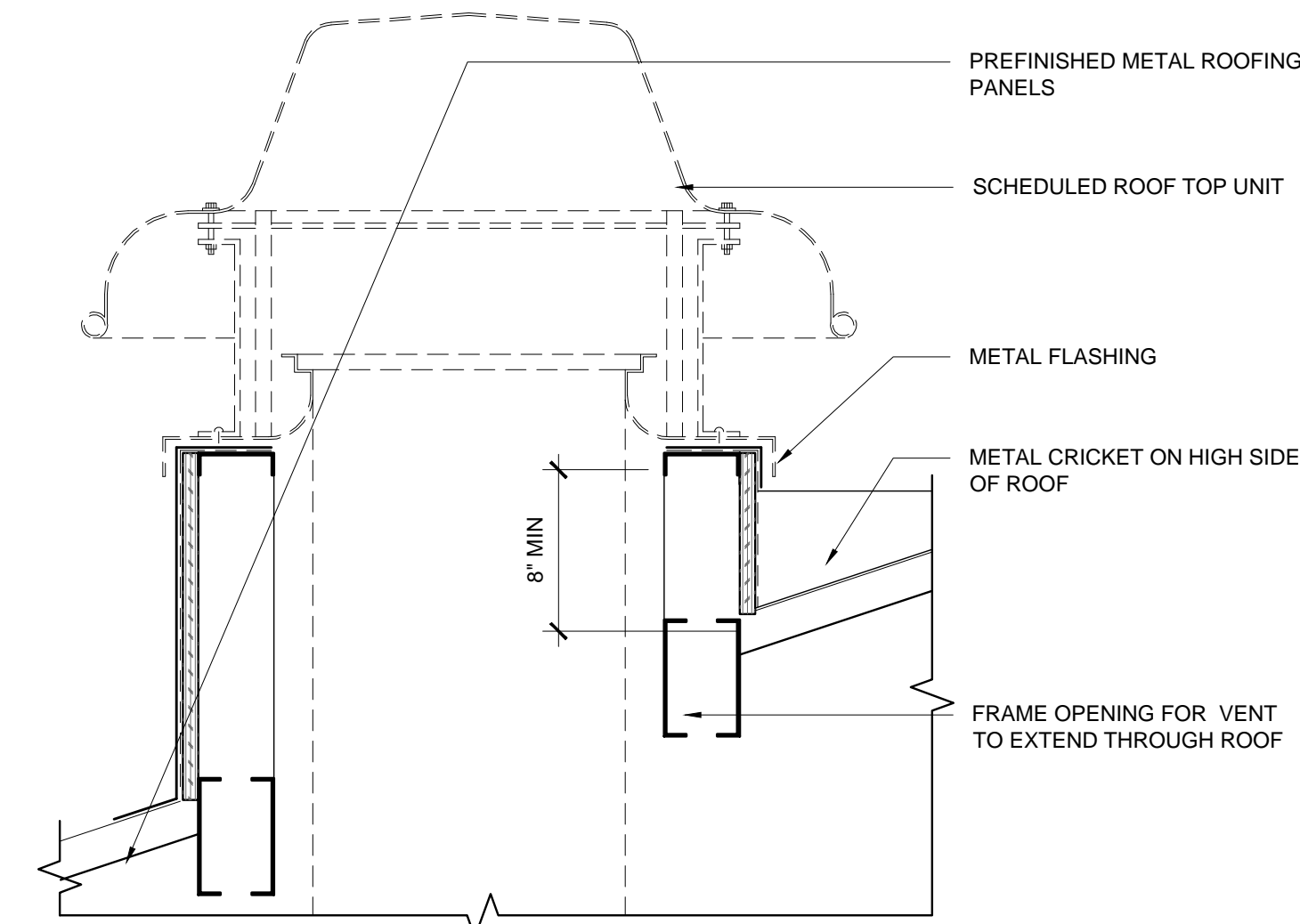
7 DETAIL SCALE: 1 1/2"=1'-0"



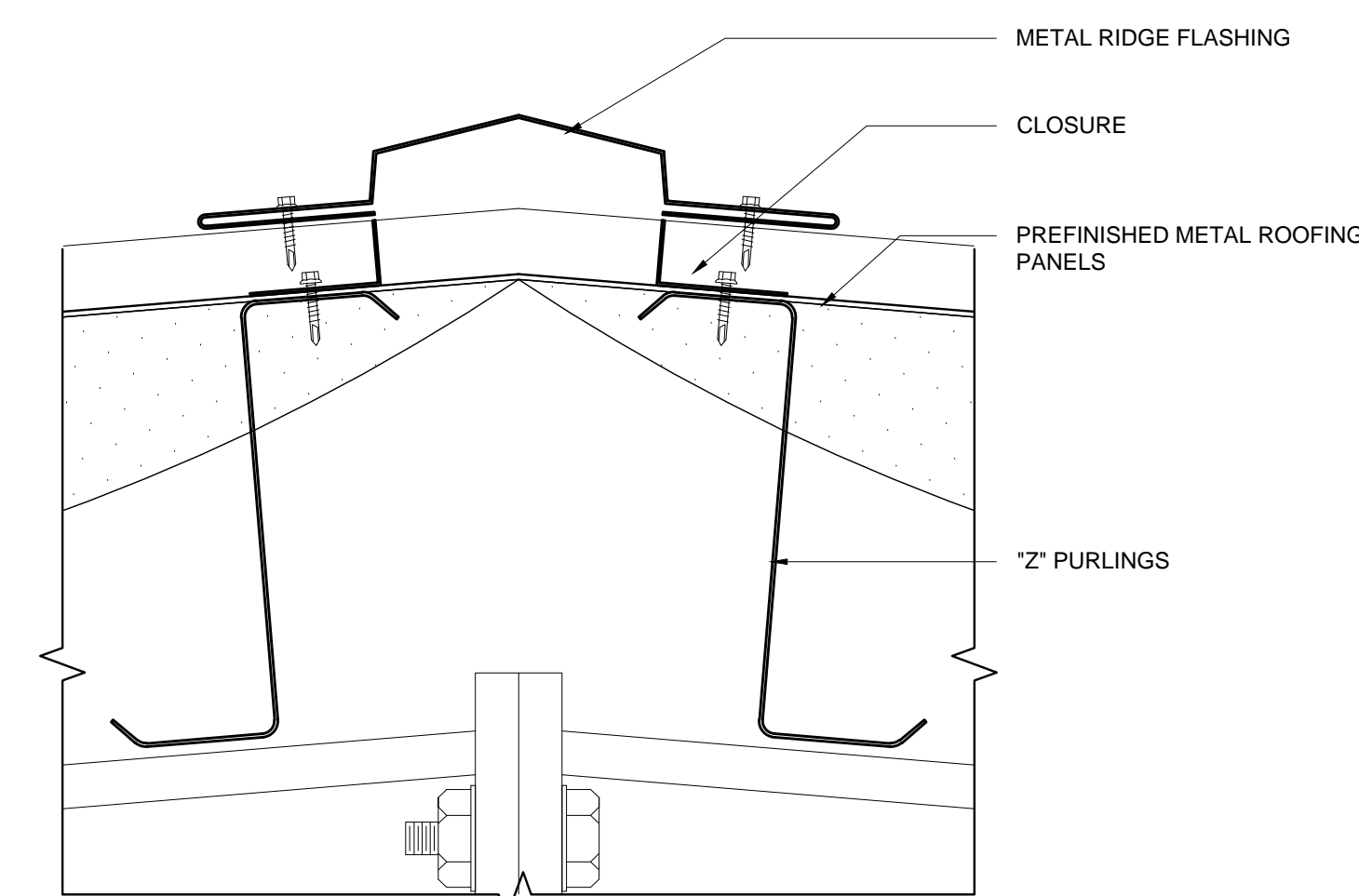
8 DETAIL (TYPICAL) SCALE: 1 1/2"=1'-0" METAL SPLASH PAN  
NOTE: INSTALL AT DOWNSPOUTS SPILLING ON ROOF OR CANOPY.



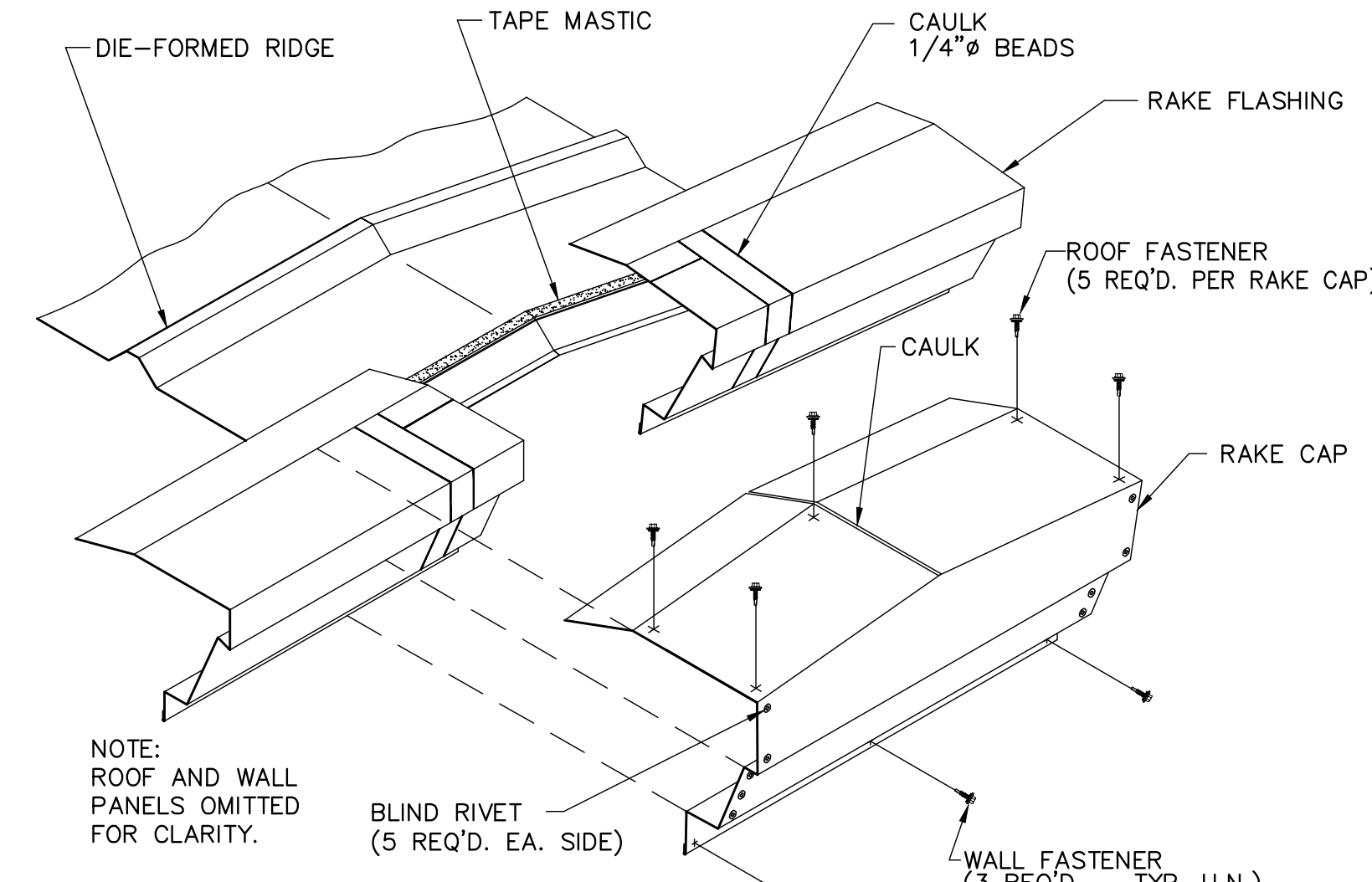
1 DETAIL SCALE: 1 1/2"=1'-0" PLUMBING VENT FLASHING THROUGH METAL ROOF (PV1)



2 DETAIL EXHAUST FAN (EF1) SCALE: 1 1/2"=1'-0"



3 DETAIL SCALE: 3"=1'-0"



3 DETAIL (PMR) SCALE: 3"=1'-0"

GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA

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ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : ROOF DETAILS - METAL ROOF

MCKEE JOB # : 21.269

DRAWN BY : AJB

DATE : 9.9.22

REVISED DATE :

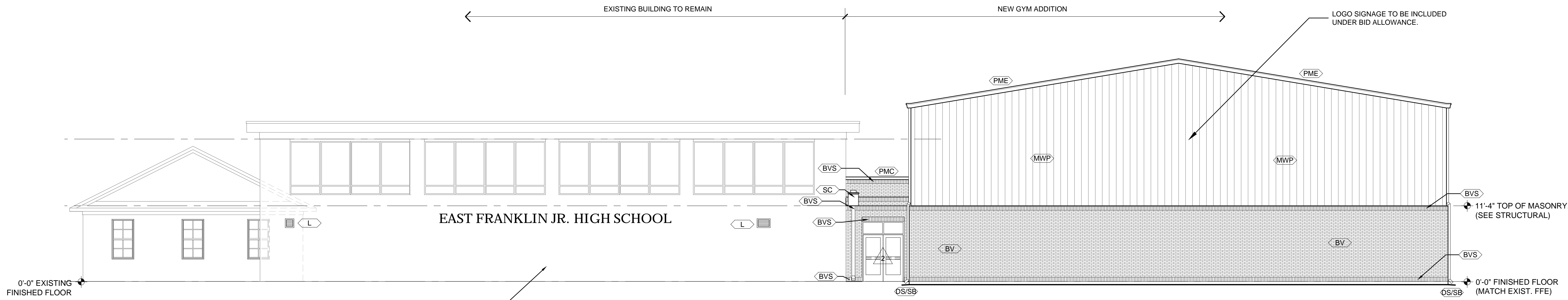
REVISED DATE :

REVISED DATE :

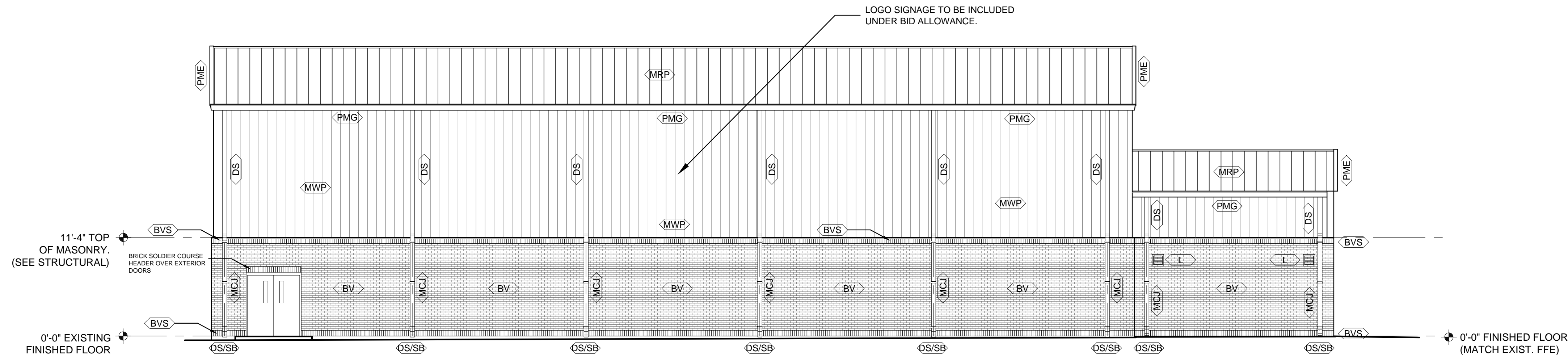
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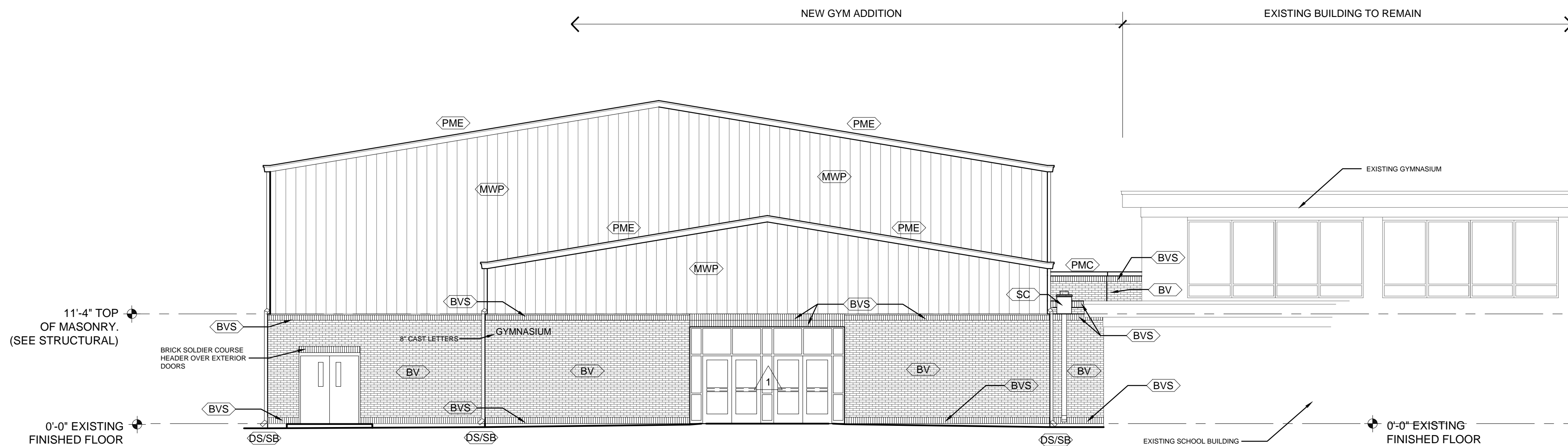
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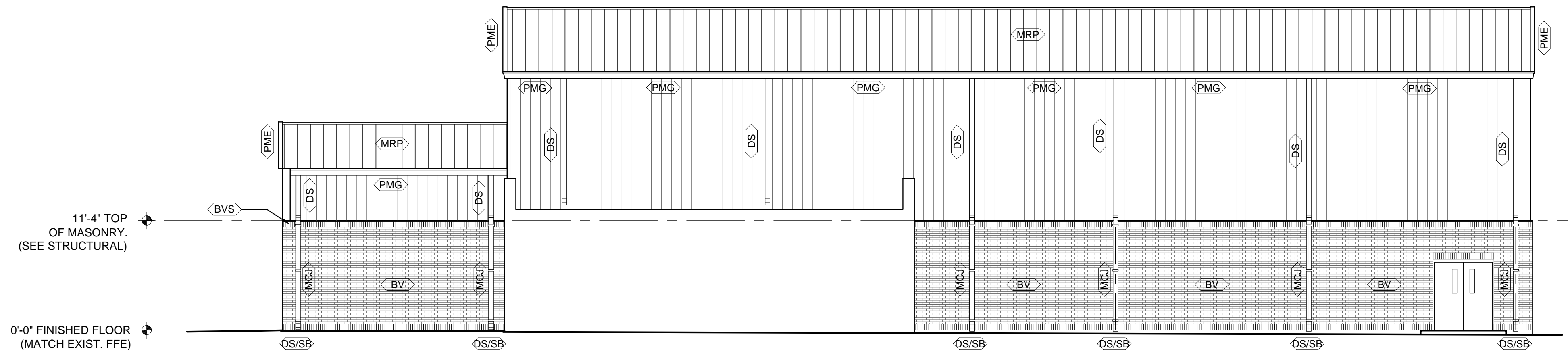
**A** EXTERIOR ELEVATION - EAST SIDE  
SCALE: 1/8" = 1'-0"



**B** EXTERIOR ELEVATION - NORTH SIDE  
SCALE: 1/8" = 1'-0"



**C** EXTERIOR ELEVATION - WEST SIDE  
SCALE: 1/8" = 1'-0"



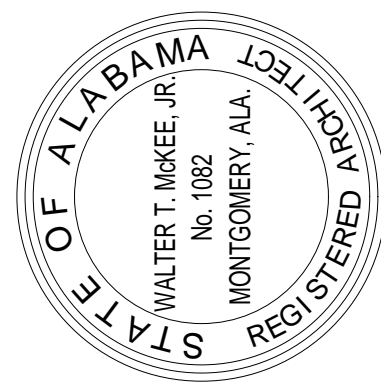
**D** EXTERIOR ELEVATION - SOUTH SIDE  
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION LEGEND	
SYMBOL	DESCRIPTION
	BUILDING SECTION SYMBOL
< DS >	PREFINISHED METAL DOWNSPOUT
OS/SB	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
< MCJ >	MASONRY CONTROL JOINT LOCATIONS
< MWP >	METAL WALL PANELS
< MRP >	METAL ROOF PANELS
< BV >	BRICK VENEER
< BVS >	BRICK VENEER - SOLDIER COURSE
< PMG >	PREFINISHED METAL GUTTER
< PMF >	PREFINISHED METAL FASCIA
< PME >	PREFINISHED METAL EAVE TRIM
< PMC >	PREFINISHED METAL COPING
< SC >	PREFINISHED METAL SCUPPER
< MAL >	METAL ACCES LADDER TO ROOF
< L >	LOUVER - SEE MECHANICAL

GYM ADDITION  
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SHEET TITLE : EXTERIOR ELEVATIONS

MCKEE JOB # : 21.269

DRAWN BY : AJB

DATE : 9.9.22

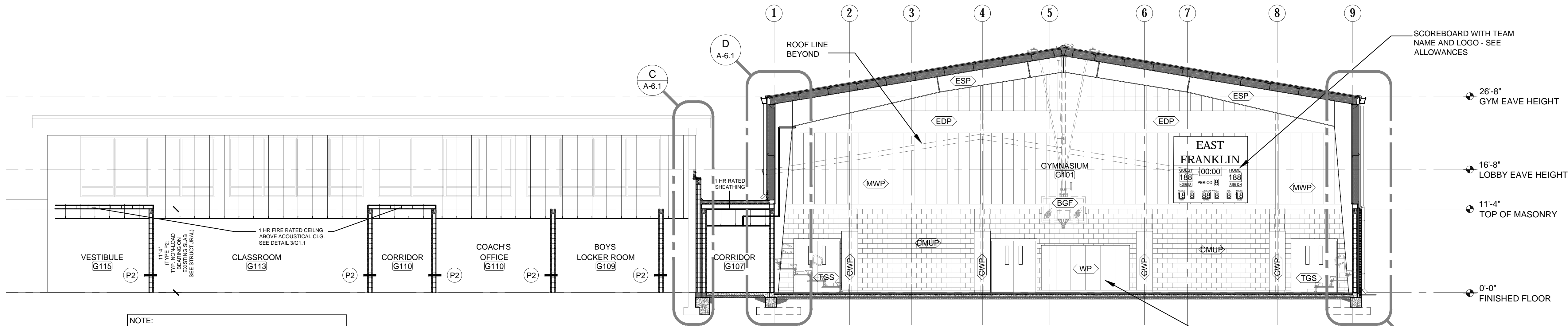
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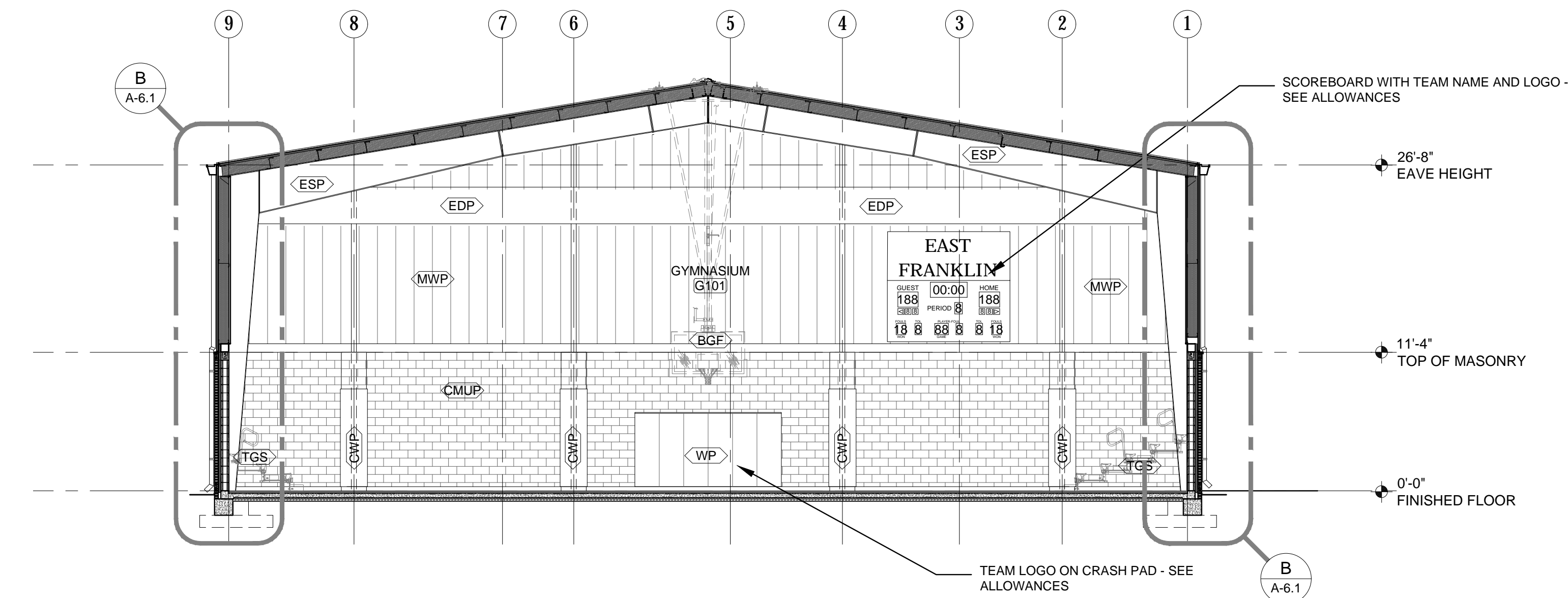
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SHEET NO. : **A4.1**

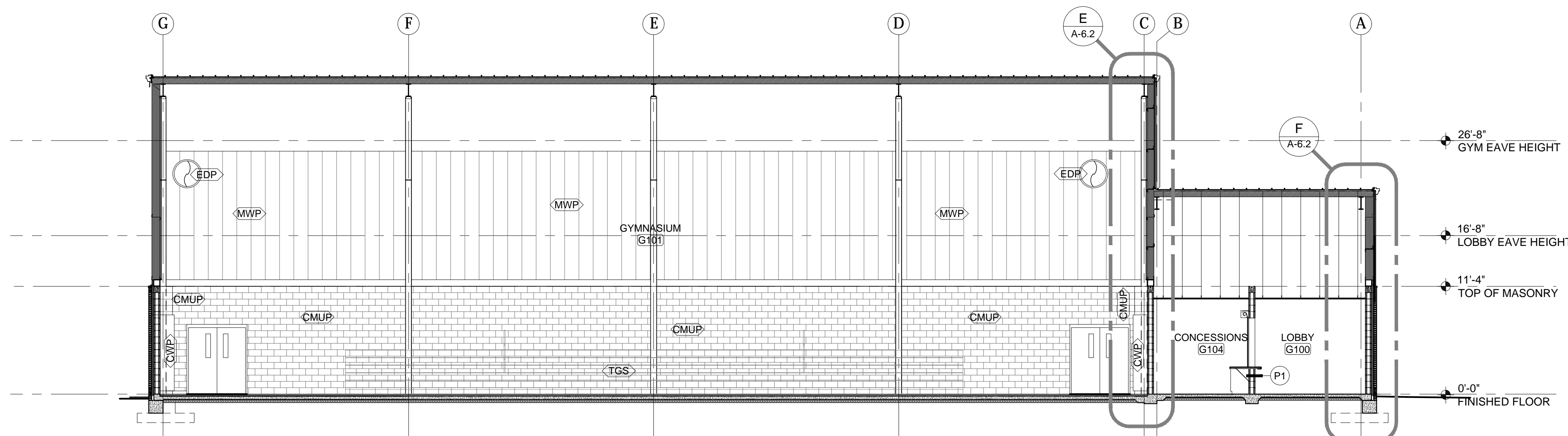




1 BUILDING SECTION  
SCALE: 1/8" = 1'-0"

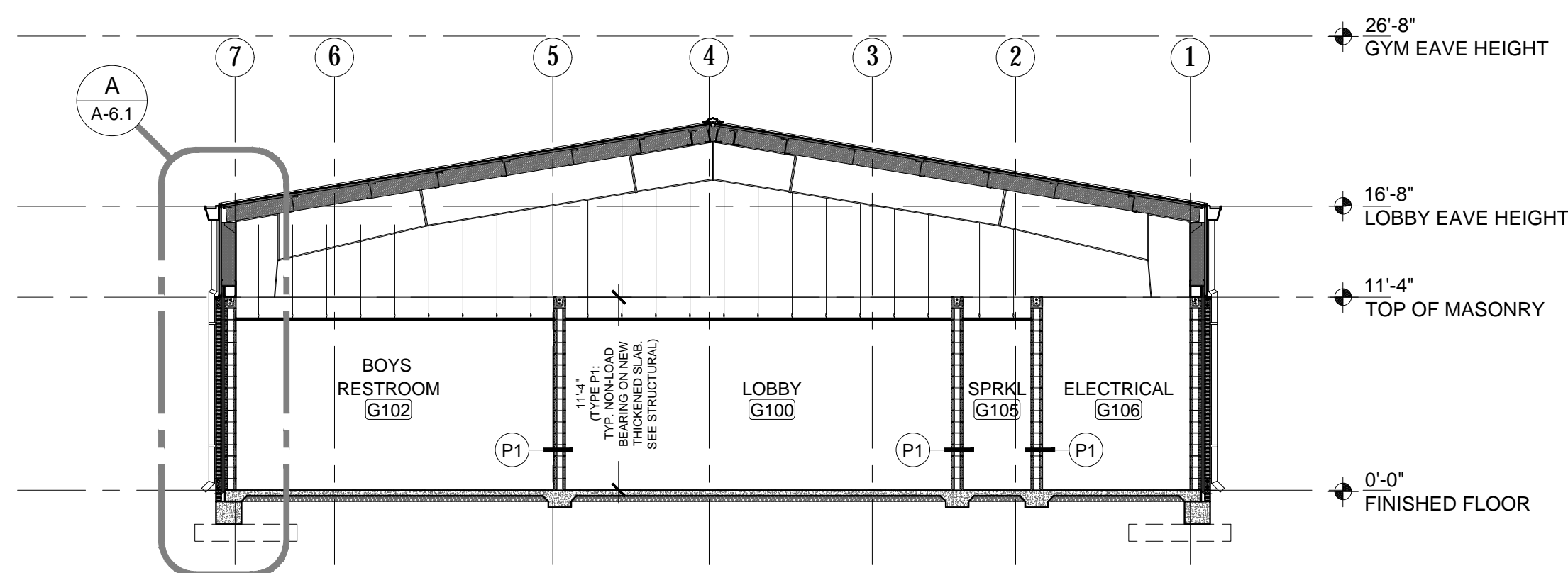


2 BUILDING SECTION  
SCALE: 1/8" = 1'-0"



3 BUILDING SECTION  
SCALE: 1/8" = 1'-0"

NOTE:  
FOR ALL NON-LOAD BEARING CMU WALLS, PROVIDE  
HORIZONTAL OR DIAGONAL BRACING PER  
STRUCTURAL DRAWINGS.



4 BUILDING SECTION  
SCALE: 1/8" = 1'-0"

NOTE:  
FOR ALL NON-LOAD BEARING CMU WALLS, PROVIDE  
HORIZONTAL OR DIAGONAL BRACING PER  
STRUCTURAL DRAWINGS.

BUILDING SECTION LEGEND	
SYMBOL	DESCRIPTION
P	WALL PARTITION TYPES
CMUP	CONCRETE MASONRY UNIT - PAINT
CMU	CONCRETE MASONRY UNIT - NO PAINT
MWP	METAL WALL PANELS
GBP	GYPSUM BOARD - PAINT
GB	GYPSUM BOARD - NO PAINT
IGBP	IMPACT RESISTANT GYPSUM BOARD - PAINT
IGB	IMPACT RESISTANT GYPSUM BOARD - NO PAINT
MGBP	MOISTURE RESISTANT GYPSUM BOARD - PAINT
MGB	MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
GR1	METAL GUARD RAIL - PAINT
HR1	METAL HAND RAIL - PAINT
BG1	BASKETBALL GOAL - FORWARD FOLD
BG2	BASKETBALL GOAL - SIDE FOLD
BG3	BASKETBALL GOAL - PORTABLE
WP	WALL PADS
CWP	CORNER WALL PADS
TGS	TELESCOPIC GYMNASIUM SEATING
MO	MASONRY OPENING
CO	CASED OPENING
AP	ACCOUSTICAL WALL PANELS
RAWP	RADIATED ACCOUSTICAL WALL PANELS
AWC	ACCOUSTICAL WALL COVERING
EDP	EXPOSED DUCTWORK - PAINT
ED	EXPOSED DUCTWORK - NO PAINT
ESP	EXPOSED STRUCTURE - PAINT
ES	EXPOSED STRUCTURE - NO PAINT
PLP	PLASTIC LAMINATE PANELS
SGS	SPECIALLY SUSPENDED GRID SYSTEM "CLOUD"

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SHEET TITLE : BUILDING SECTIONS

MCKEE JOB # : 21.269

DRAWN BY : AJB

DATE : 9.9.22

REVISED DATE :

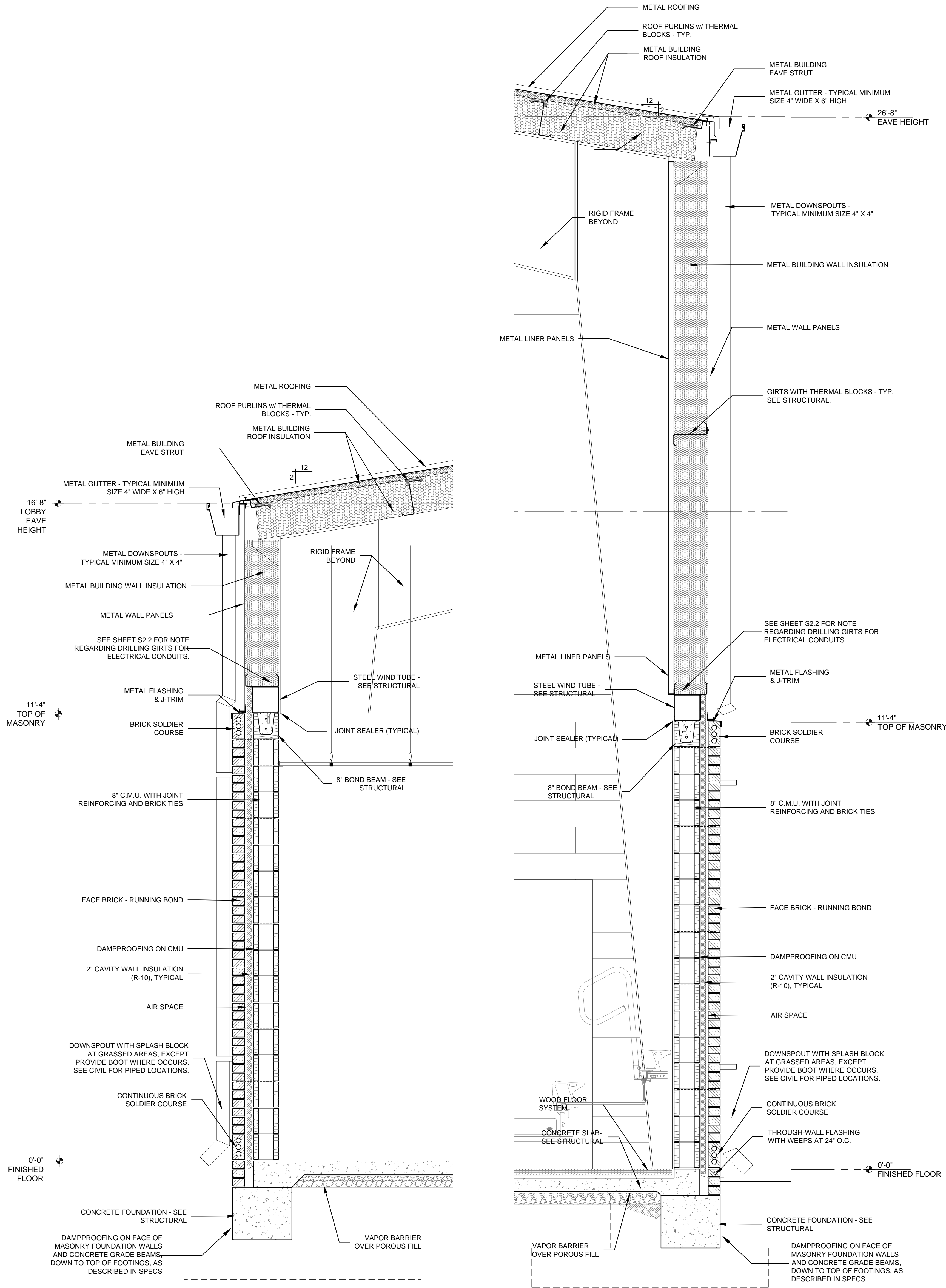
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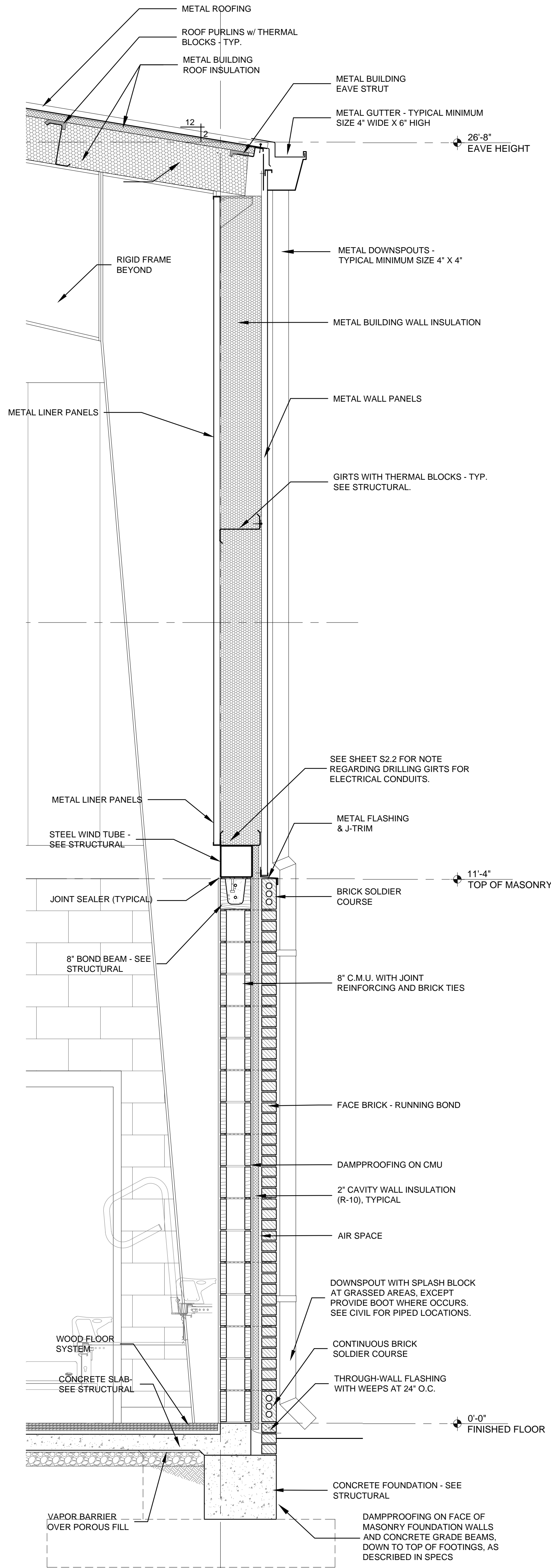
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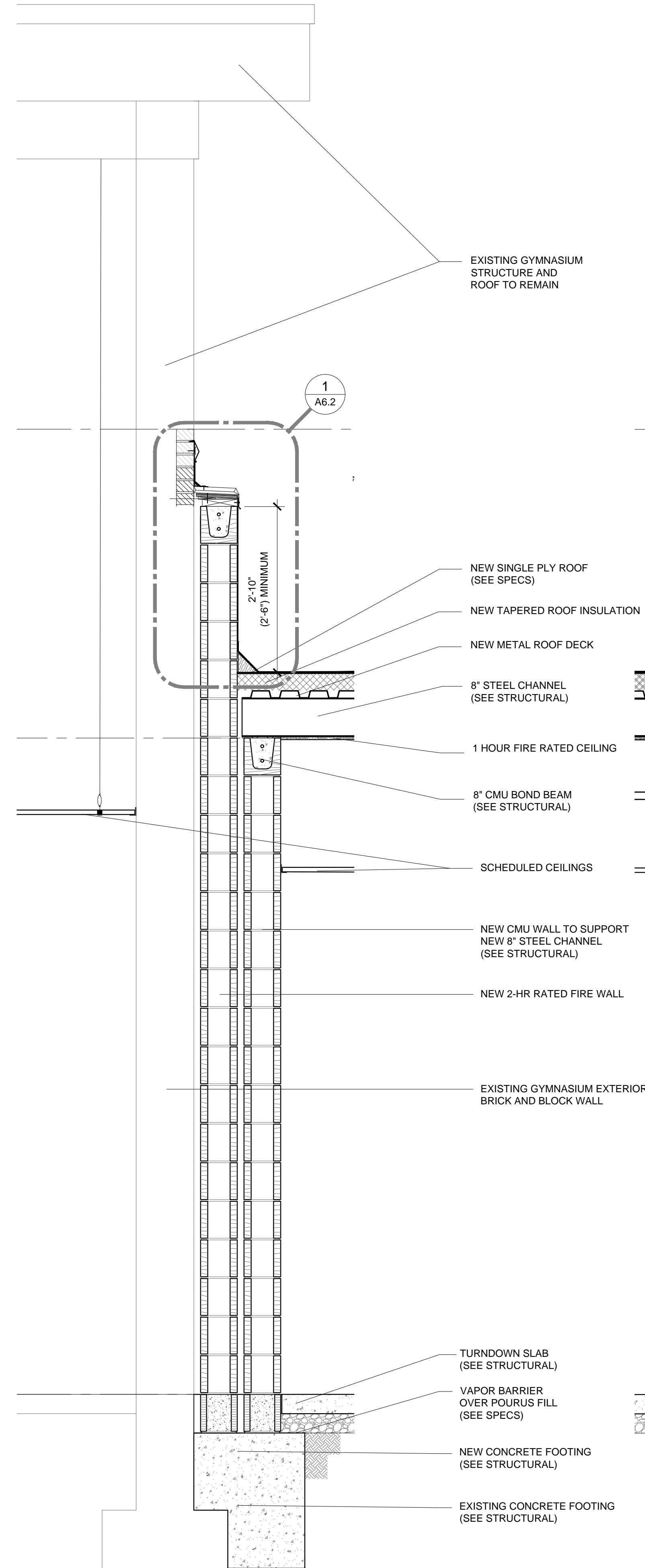
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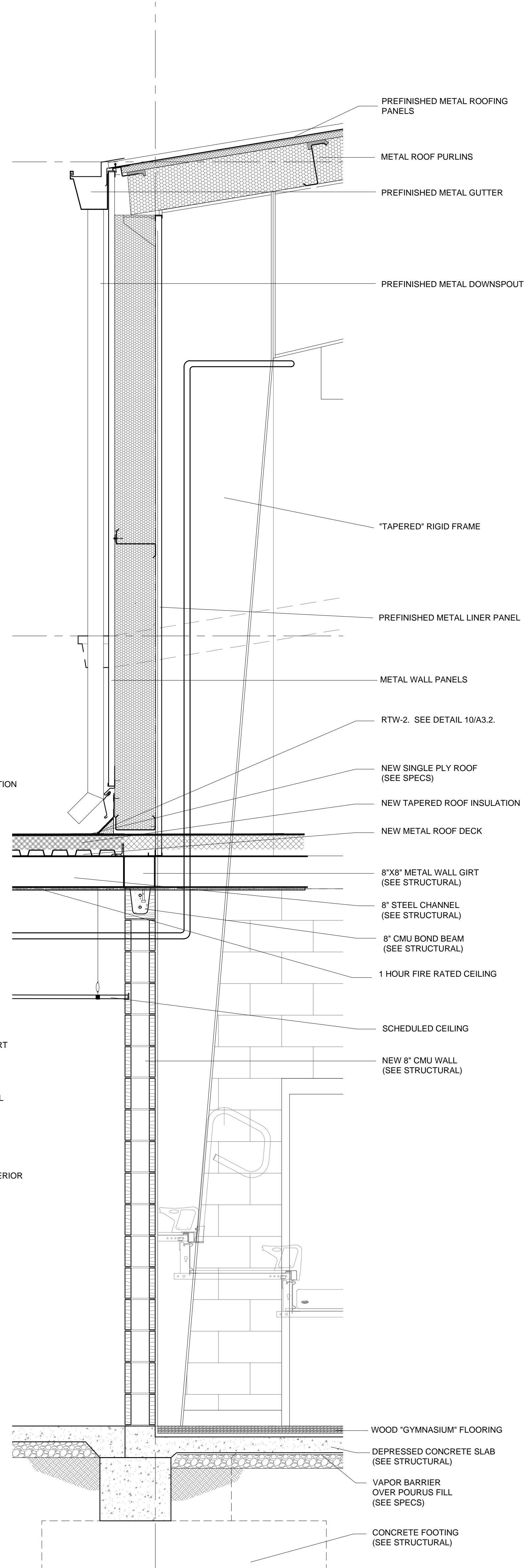
**A** WALL SECTION  
SCALE: 3/4"=1'-0"



**B** WALL SECTION  
SCALE: 3/4"=1'-0"



**C** WALL SECTION  
SCALE: 3/4"=1'-0"



**D** WALL SECTION  
SCALE: 3/4"=1'-0"

GYM ADDITION  
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SHEET TITLE : WALL SECTIONS  
MCKEE JOB # : 21.269  
DRAWN BY : AJB  
DATE : 9.9.22  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : **A6.1**

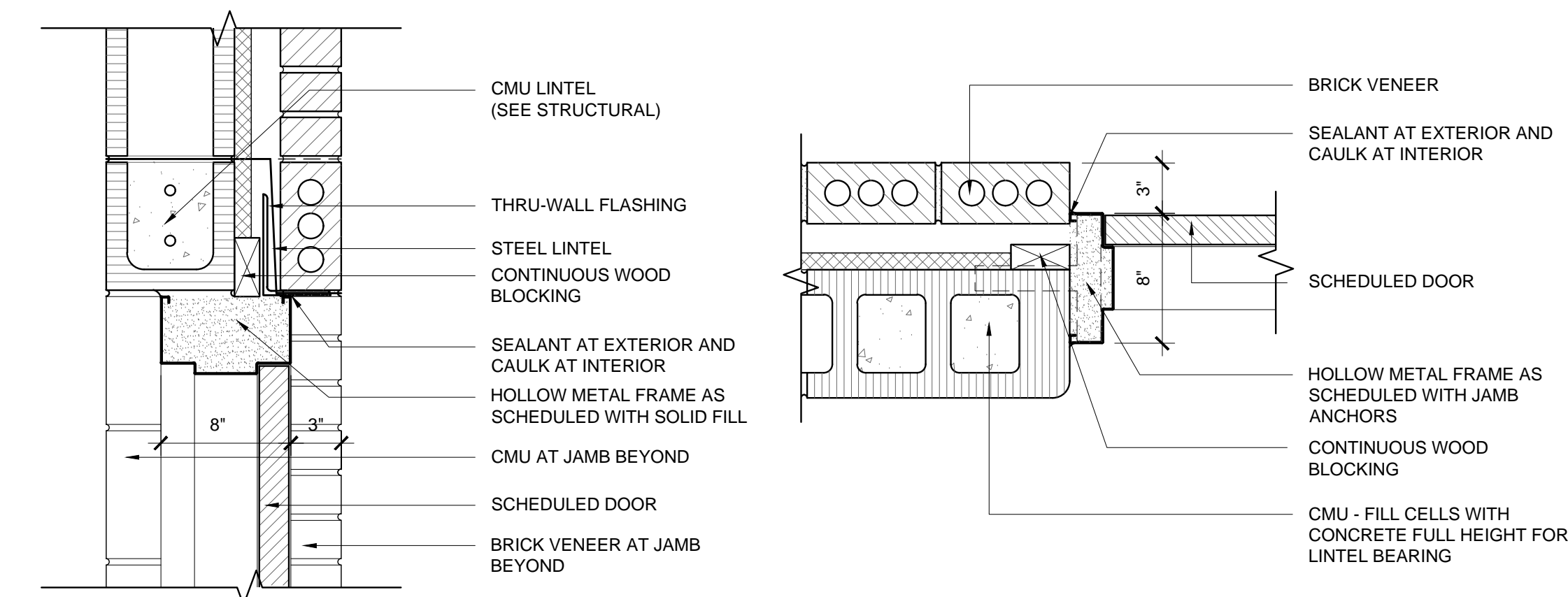






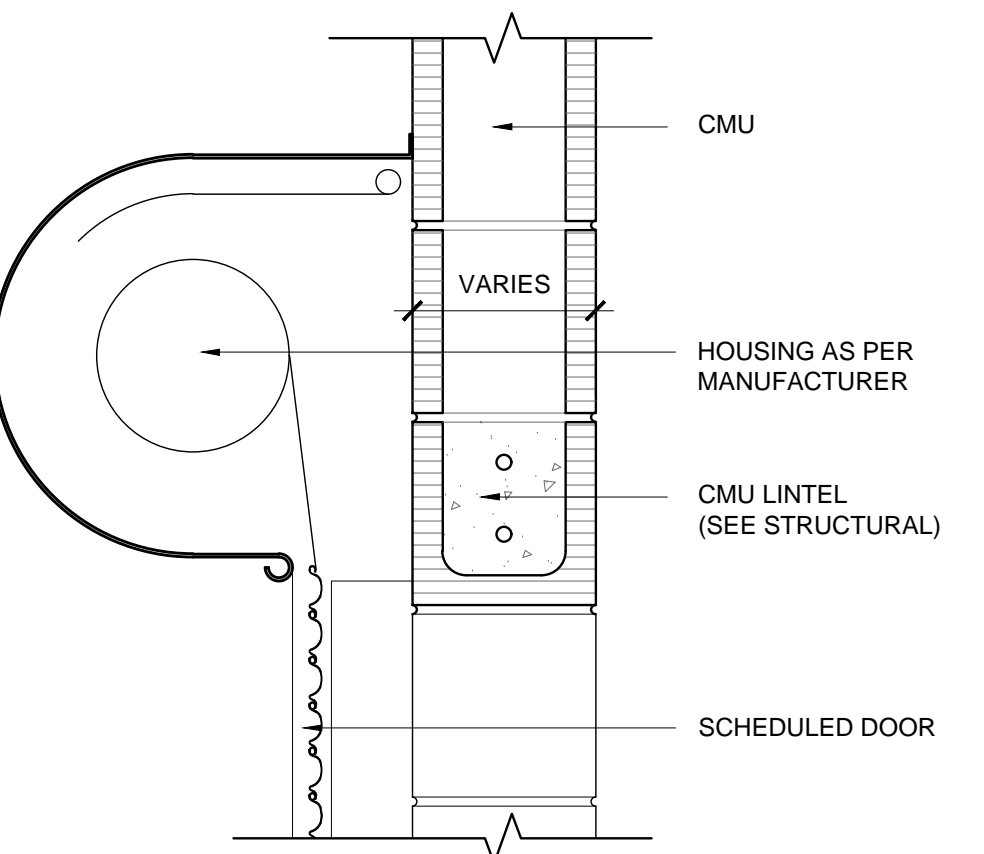
ROOM FINISH SCHEDULE													
--- NO WORK REQUIRED GBP - GYPSUM BOARD - PAINT GB - GYPSUM BOARD - NO PAINT MGBP - MOISTURE RESISTANT GYPSUM BOARD - PAINT IGBP - IMPACT RESISTANT GYPSUM BOARD - PAINT			CMUP - CONCRETE MASONRY UNIT - PAINT CMU - CONCRETE MASONRY UNIT - NO PAINT			CTWO - CARPET TILE, WALK-OFF LVT - LUXURY VINYL TILE PT - PORCELAIN TILE SC - SEALED CONCRETE WF - WOOD FLOOR WGF - WOOD GYMNASIUM FLOORING			RB - RUBBER BASE W - WOOD BASE VCB - VENTILATED COVE BASE				
ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING		WAINS.	HEIGHT	REMARKS	
				NORTH	SOUTH	EAST	WEST	TYPE	HEIGHT				
G100	LOBBY	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G101	GYMNASIUM	WGF	VCB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G102	BOYS	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G103	GIRLS	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	PT	6'-0"		PORCELAIN TILE WAINSCOT ON PLUMBING WALLS	
G104	CONCESSION	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G105	SPRINKLER	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G106	ELECTRICAL	SC	---	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G107	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G108	GIRLS' LOCKER ROOM	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	PT	6'-0"		TILE WAINSCOT ON ALL PLUMBING WALLS & SHOWER STALLS	
G109	BOYS' LOCKER ROOM	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	PT	6'-0"		TILE WAINSCOT ON ALL PLUMBING WALLS & SHOWER STALLS	
G110	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G111	COACH'S OFFICE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G112	UNFINISHED	SC	---	CMU	CMU	CMU	CMU	SEE RCP PLAN					
G113	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G115	VESTIBULE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN					
G116	JANITOR	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	PT	6'-0"		PORCELAIN TILE WAINSCOT ON PLUMBING WALLS	
G117	BOYS	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	PT	6'-0"		PORCELAIN TILE WAINSCOT ON PLUMBING WALLS	
G118	GIRLS	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN	PT	6'-0"		PORCELAIN TILE WAINSCOT ON PLUMBING WALLS	
G119	UNFINISHED	SC	---	CMU	CMU	CMU	CMU	SEE RCP PLAN					

DOOR SCHEDULE													
DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS		SIGNAGE	REMARKS
										HEAD	JAMB		
G100a	PAIR 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	FACTORY	FACTORY	---	5/A8.1	6/A8.1		INSULATED
G100b	PAIR 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	FACTORY	FACTORY	---	5/A8.1	6/A8.1		INSULATED
G101a	PAIR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM2	PAINT	---	5/A8.1	6/A8.1	GYMNASIUM	---
G101b	PAIR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM2	PAINT	---	5/A8.1	6/A8.1	GYMNASIUM	---
G101c	PAIR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM2	PAINT	45 MIN	5/A8.1	6/A8.1	GYMNASIUM	---
G101d	PAIR 3'-0"	7'-0"	1 3/4"	HOLLOW METAL	E	PAINT	HM2	PAINT	---	1/A8.1	2/A8.1		INSULATED
G101e	PAIR 3'-0"	7'-0"	1 3/4"	HOLLOW METAL	E	PAINT	HM2	PAINT	---	1/A8.1	2/A8.1		INSULATED
G101f	PAIR 3'-0"	7'-0"	1 3/4"	HOLLOW METAL	E	PAINT	HM2	PAINT	---	1/A8.1	2/A8.1		INSULATED
G102	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	---	7/A8.1	8/A8.1	BOYS	---
G103	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	---	7/A8.1	8/A8.1	GIRLS	---
G104a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	---	7/A8.1	8/A8.1	CONCESSIONS	---
G104b	8'-8"	5'-4"	--	COUNTER SHUTTER	F	FACTORY	FACTORY	FACTORY	---	3/A8.1	4/A8.1		---
G105	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	---	7/A8.1	8/A8.1	SPRINKLER	---
G106	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	---	7/A8.1	8/A8.1	ELECTRICAL	---
G107	PAIR 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	FACTORY	FACTORY	20 MIN	5/A8.1	6/A8.1		INSULATED
G108	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1	BOYS LOCKER ROOM	---
G109	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1	GIRLS LOCKER ROOM	---
G110a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	90 MIN	7/A8.1	8/A8.1		---
G110b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1		---
G110c	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1		---
G110d	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1		---
G110e	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1		---
G110f	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1		---
G111	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1	OFFICE	---
G112	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1		---
G113	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1	CLASSROOM	---
G116	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1	JANITOR	---
G117	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1	BOYS	---
G118	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	D	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1	GIRLS	---
G119	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN	7/A8.1	8/A8.1		---

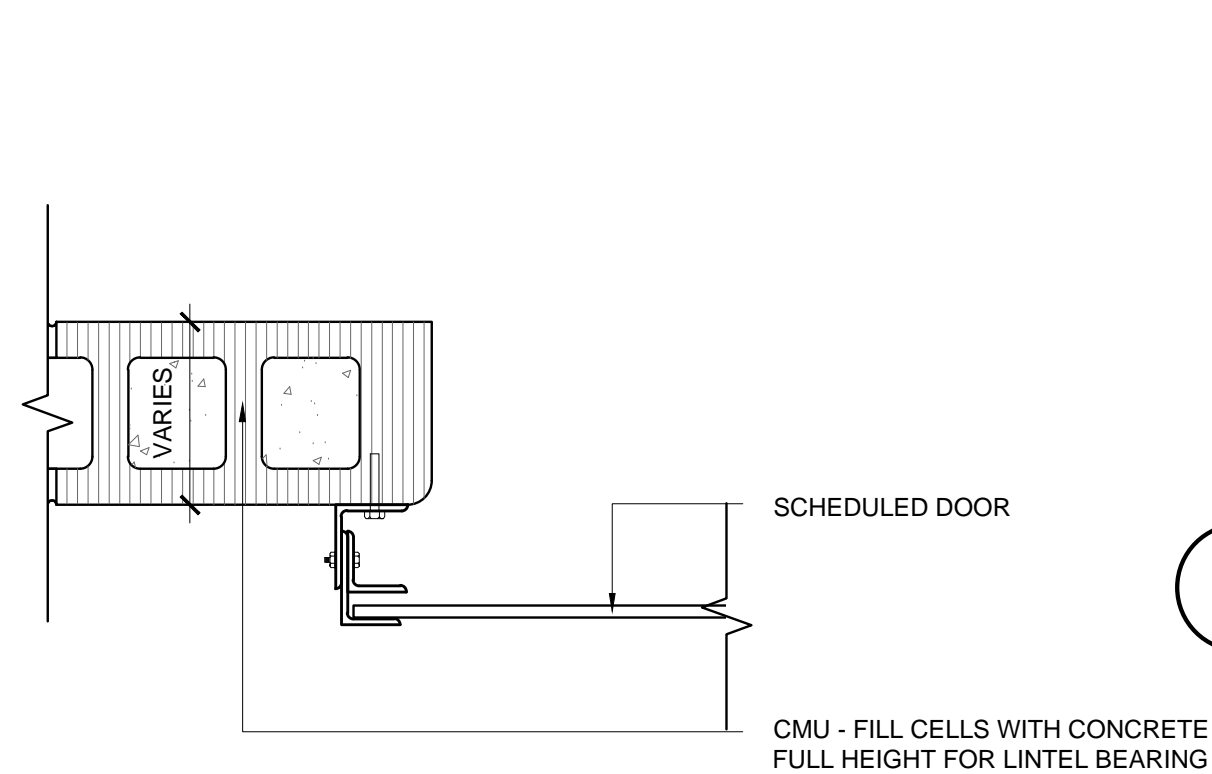


1 DOOR DETAIL HEAD  
SCALE: 1 1/2"=1'-0"

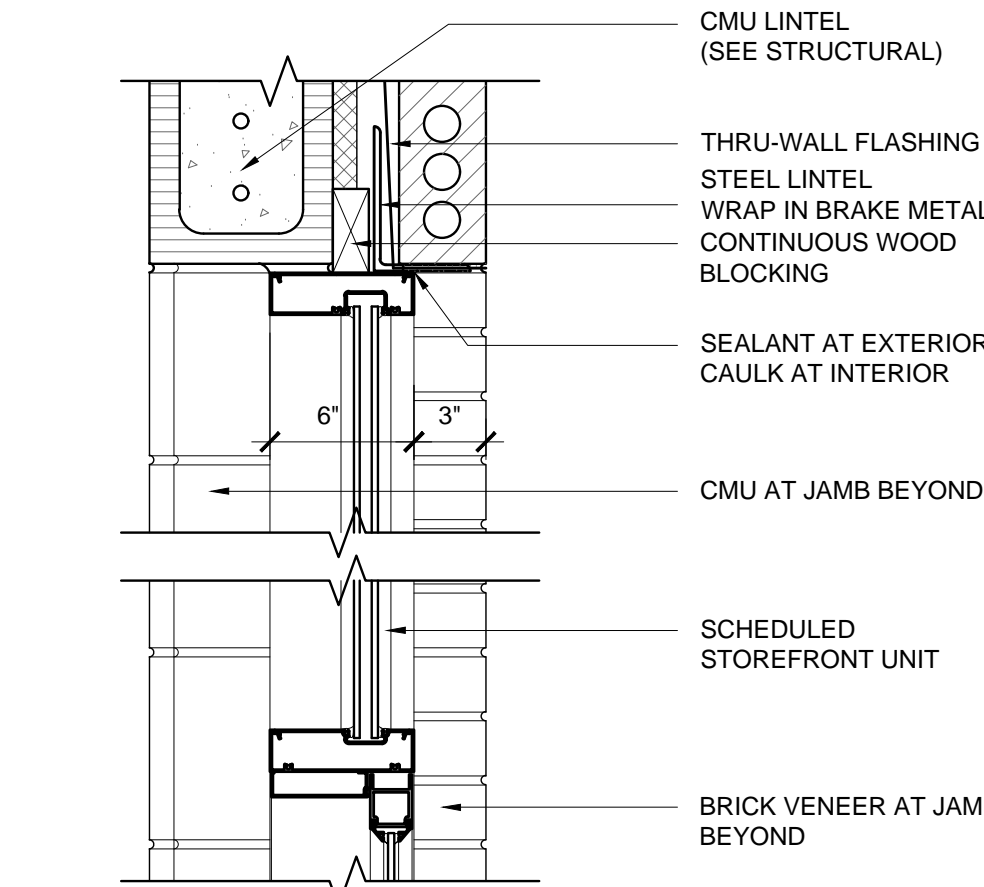
2 DOOR DETAIL JAMB  
SCALE: 1 1/2"=1'-0"



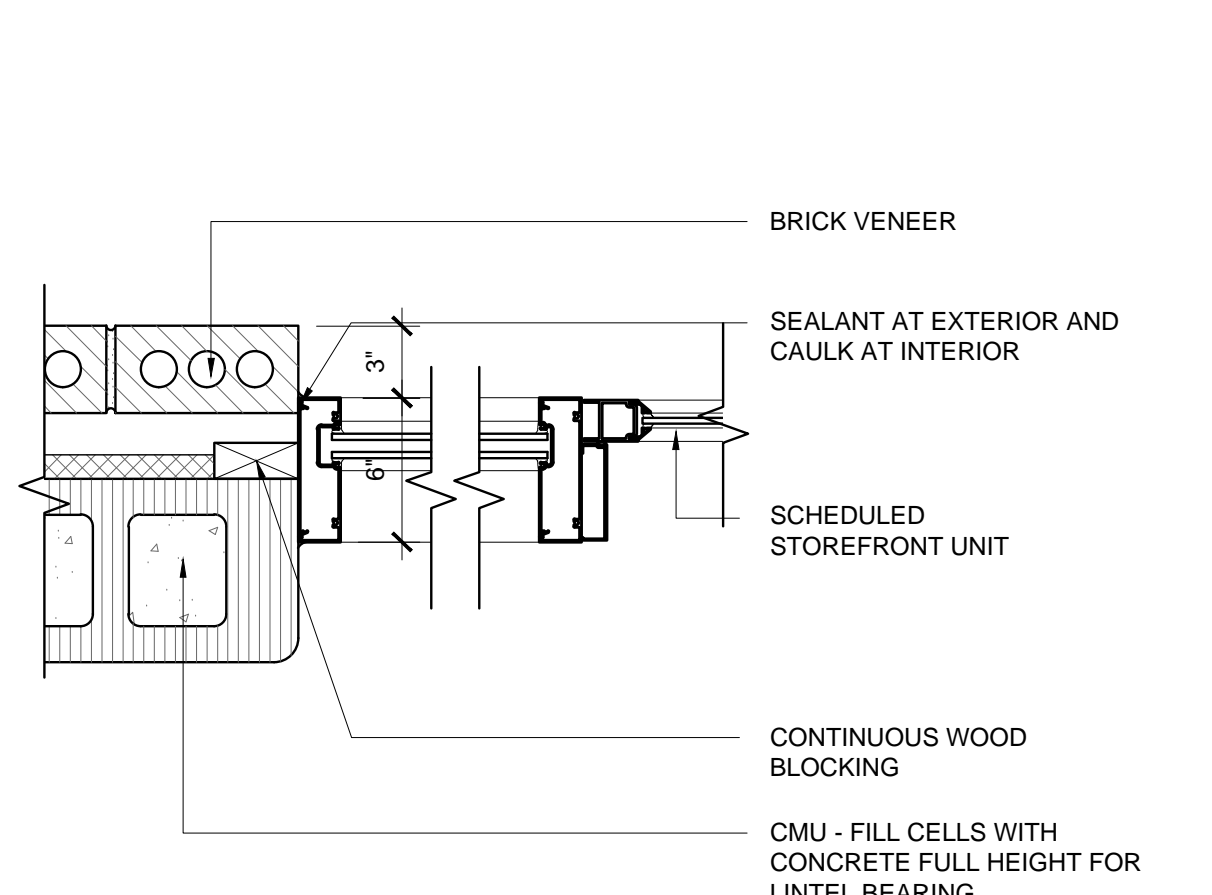
3 DOOR DETAIL HEAD  
SCALE: 1 1/2"=1'-0"



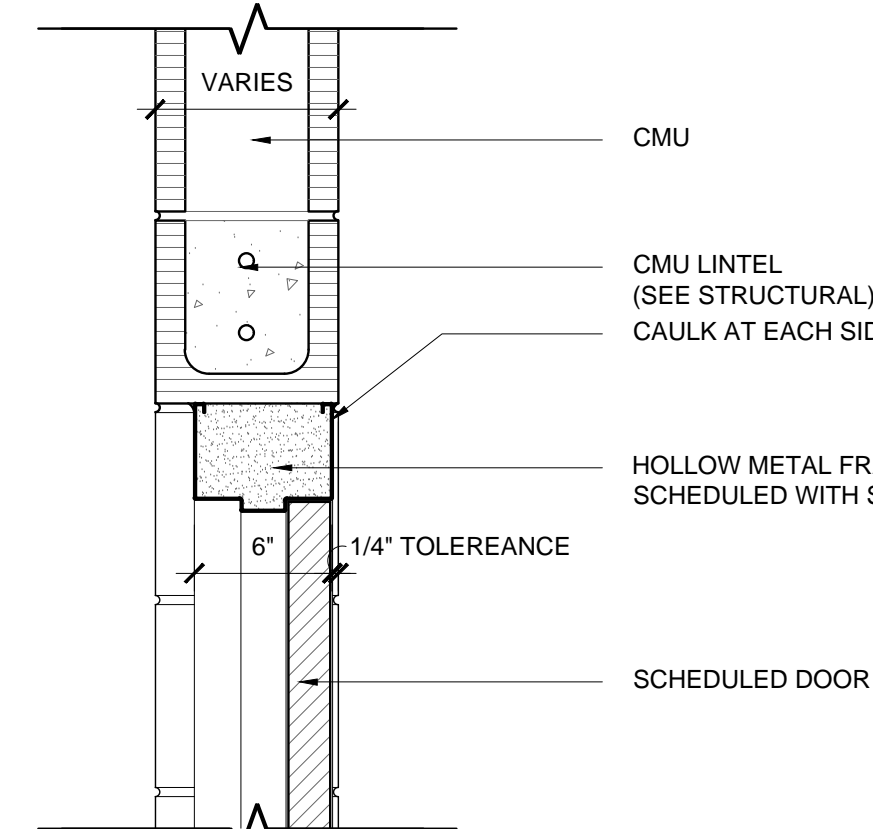
4 DOOR DETAIL JAMB  
SCALE: 1 1/2"=1'-0"



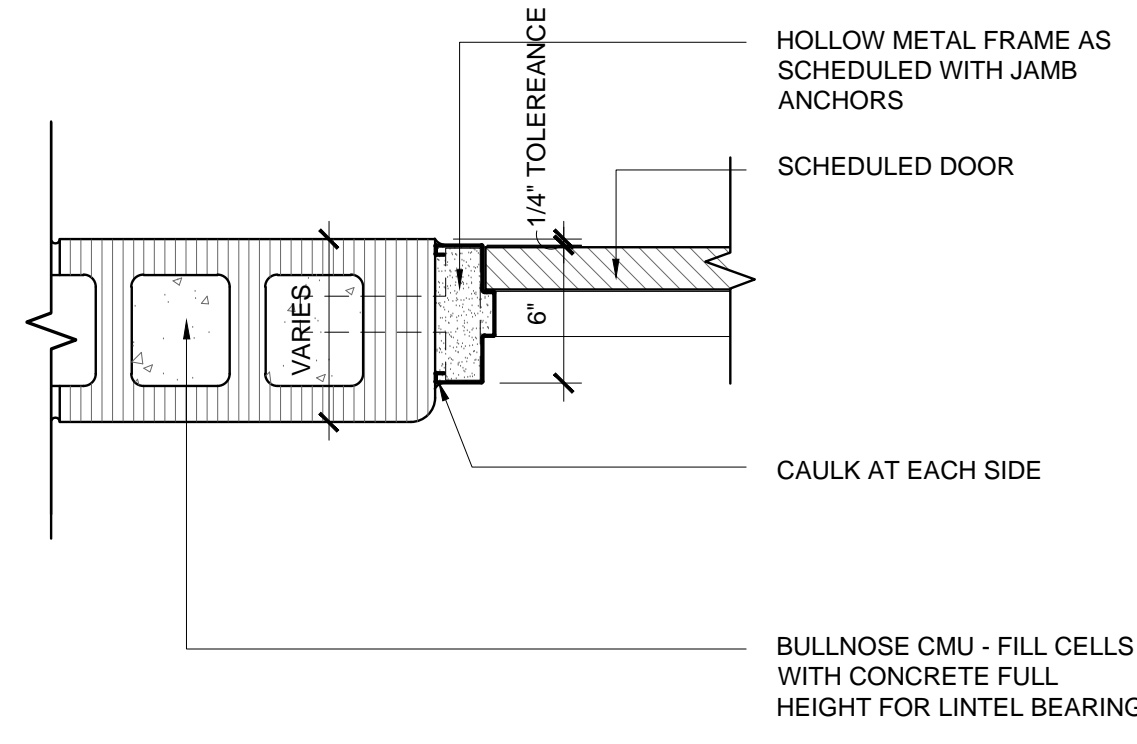
5 DOOR DETAIL HEAD  
SCALE: 1 1/2"=1'-0"



6 DOOR DETAIL JAMB  
SCALE: 1 1/2"=1'-0"

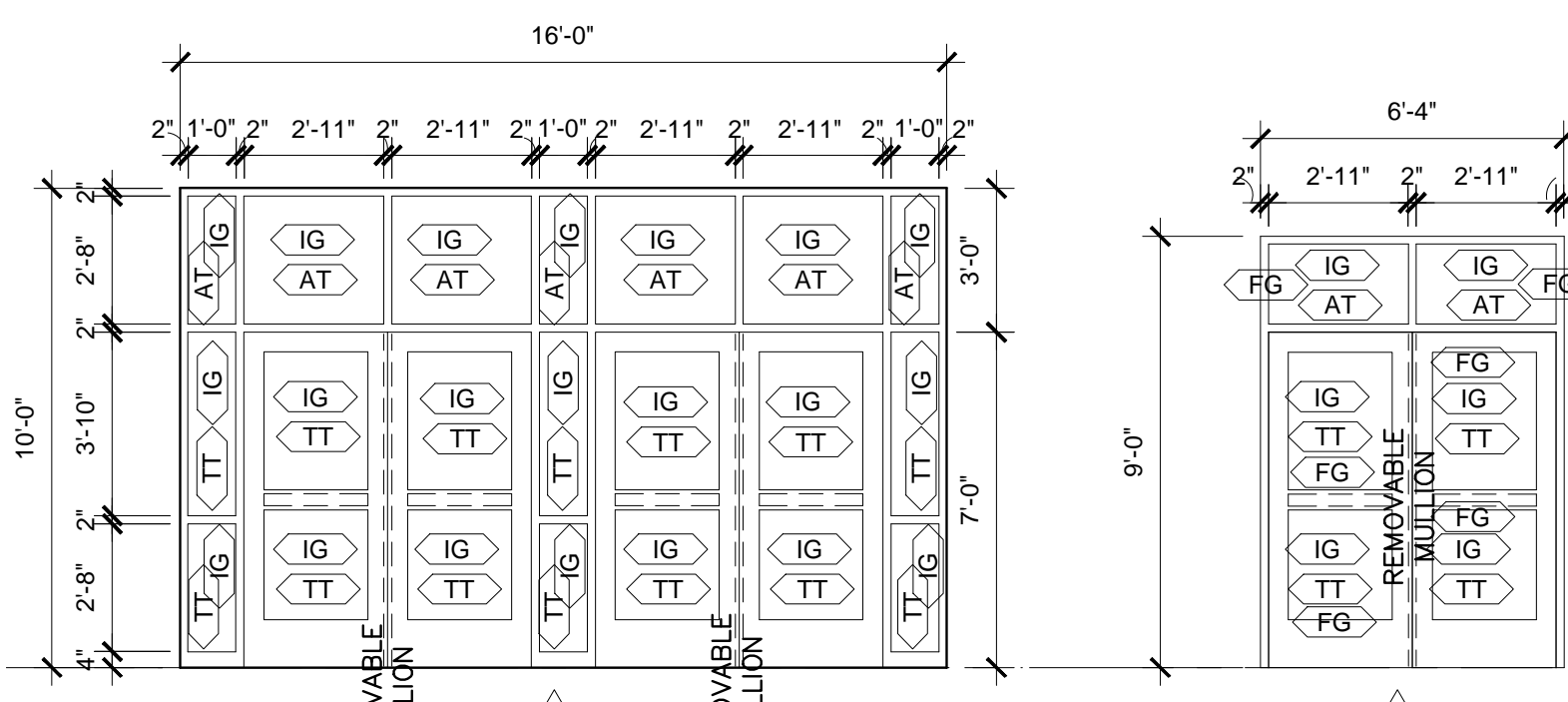


7 DOOR DETAIL HEAD  
SCALE: 1 1/2"=1'-0"



8 DOOR DETAIL JAMB  
SCALE: 1 1/2"=1'-0"

GLAZING SCHEDULE	
SYMBOL	DESCRIPTION
CA	CLEAR ANNEALED GLASS
CT	CLEAR TEMPERED - INTERIOR
FG	FIRE-RATED GLASS
IG	INSULATING GLASS - EXTERIOR
TA	TINTED ANNEALED GLASS - EXTERIOR
TT	TINTED TEMPERED - EXTERIOR



STOREFRONT ENTRANCE TYPES  
SCALE: 1/4" = 1'-0"

#### SIGNAGE NOTES:

FURNISH INDIVIDUAL PLASTIC LAMINATE SIGNAGE SYSTEM WITH ROOM OR OCCUPANT'S NAME AND ROOM NUMBER. FINAL WORDING TO BE FURNISHED WHEN SHOP DRAWINGS FOR SIGNAGE SYSTEM ARE SUBMITTED. FURNISH INDIVIDUAL PLASTIC LAMINATE RESTROOM SIGNS FOR DOOR(S) AND HANDICAPPED ACCESS SIGN TO BE PLACED ON WALL BESIDE RESTROOM DOOR(S) - SEE DIAGRAM.

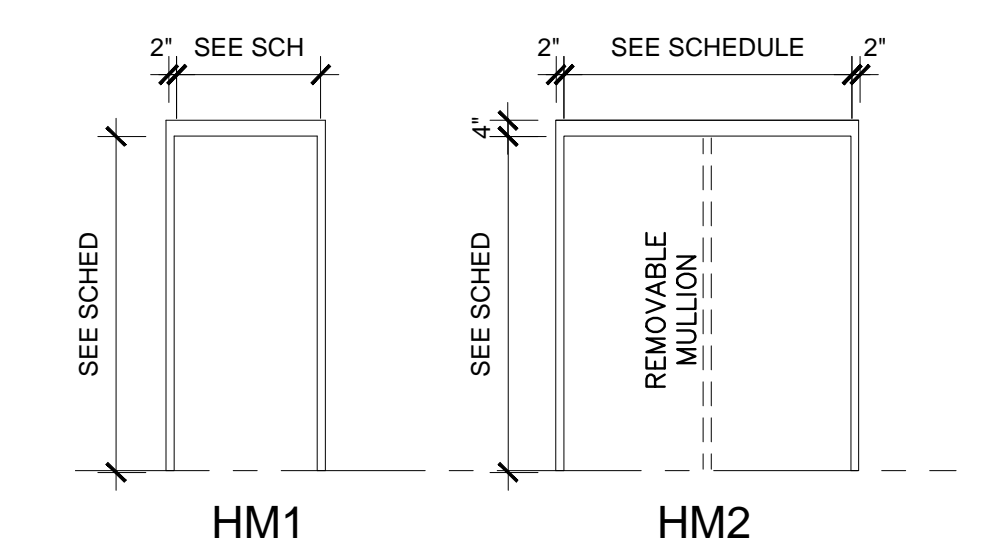
#### LABELLED DOOR AND FRAME NOTE:

HOURLY RATING DESIGNATIONS AND / OR ALPHABETICAL LETTER DESIGNATIONS ARE GIVEN WHERE PROTECTED OPENINGS ARE REQUIRED IN RATED PARTITIONS. THESE OPENING PROTECTIVE ASSEMBLIES SHALL INCLUDE THE FRAME, DOOR, HARDWARE, CLOSING DEVICE, SILL AND ANCHORAGE. CONTRACTOR SHALL SEE THAT NO COMPONENT IS OMITTED OR SUBSTANDARD QUALITY USED SUCH THAT THE EFFECTIVENESS OF THE ENTIRE OPENING AS A FIRE OR SMOKE BARRIER MIGHT BE JEOPARDIZED. DOORS AND FRAMES SHALL BE FURNISHED WITH UNDERWRITER'S LABORATORIES OR WARNDOCKHERSEY LABELS WITH APPROPRIATE FIRE RESISTANCE RATINGS FOR THE CLASS OF OPENING SCHEDULED. SUBJECT TO DOOR MANUFACTURER'S PROCEDURAL LIMITATIONS, LABELS SHOULD BEAR THE FOLLOWING NOTATION: "FIRE DOOR, TO BE EQUIPPED WITH FIRE EXIT HARDWARE"

#### SIGN MOUNTING HEIGHT

703.4.1 HEIGHT ABOVE FINISH FLOOR OF GROUND  
TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 mm) MAXIMUM ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.  
EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/8 INCHES (4.8 mm) MINIMUM AND SHALL BE LOCATED EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

703.4.2 LOCATION  
WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT THE CLEAR FLOOR SPACE OF 18 INCHES (455 mm) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSEST POSITION AND 45 DEGREE OPEN POSITION.  
EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.



FRAME TYPES  
SCALE: 1/4" = 1'-0"

DOOR TYPES  
SCALE: 1/4" = 1'-0"

FG ALL GLAZING TO BE FIRE RATED WHEN INSTALLED IN FIRE RATED DOORS/OPENINGS

GYM ADDITION

TO

EAST FRANKLIN JUNIOR HIGH SCHOOL

FOR THE

FRANKLIN COUNTY BOARD OF EDUCATION

PHIL CAMPBELL, ALABAMA

MCKEE and ASSOCIATES  
ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : FINISH SCHEDULE  
DOOR SCHEDULE &  
DOOR DETAILS

MCKEE JOB # : 21.269

DRAWN BY : AJB

DATE : 9.9.22

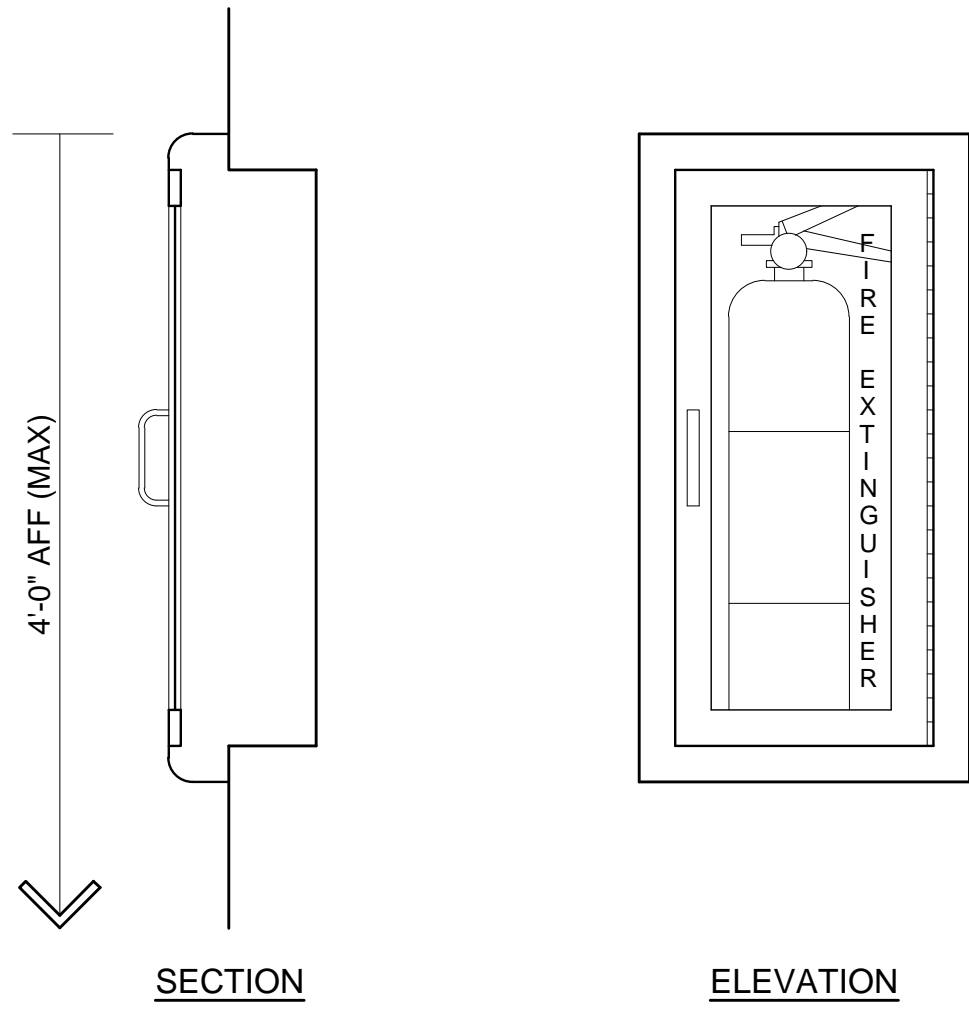
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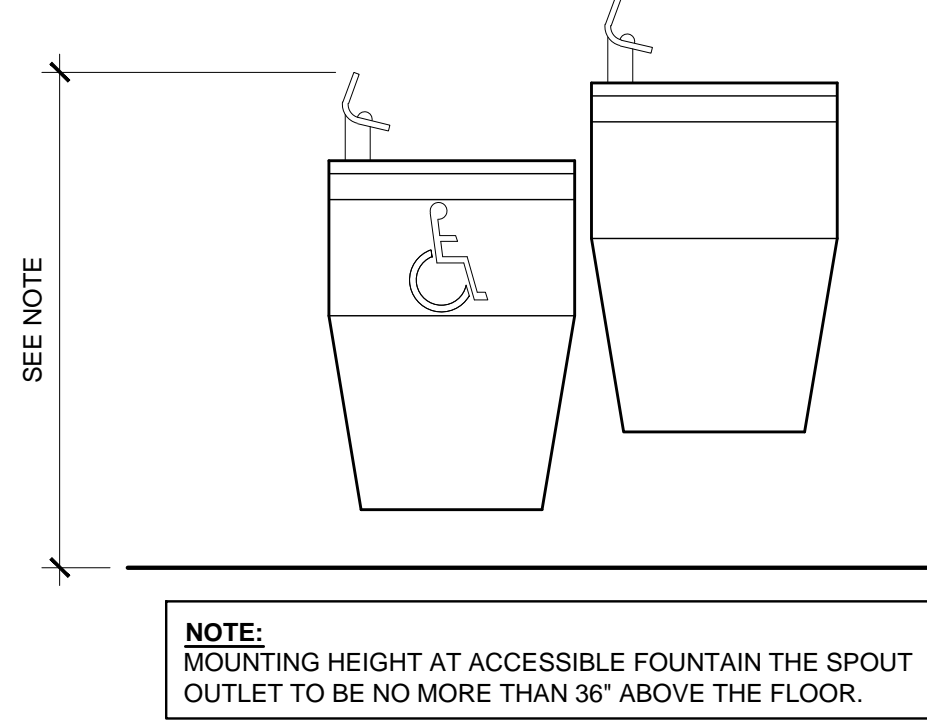
REVISED DATE:

SHEET NO. : A8.1

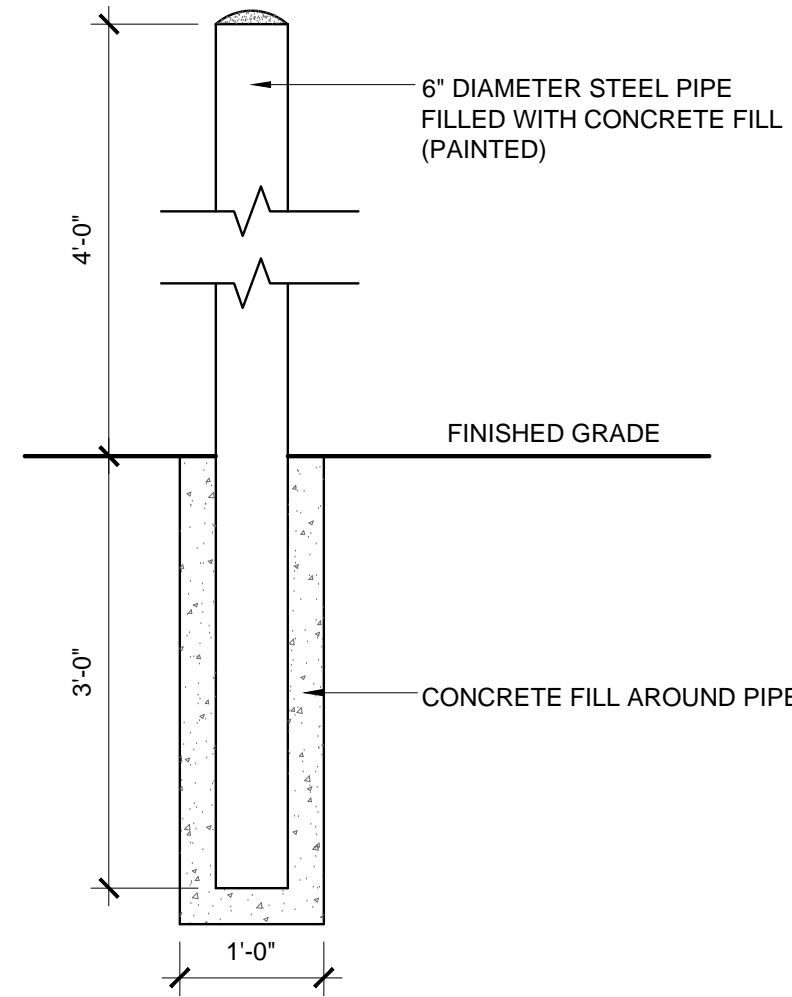




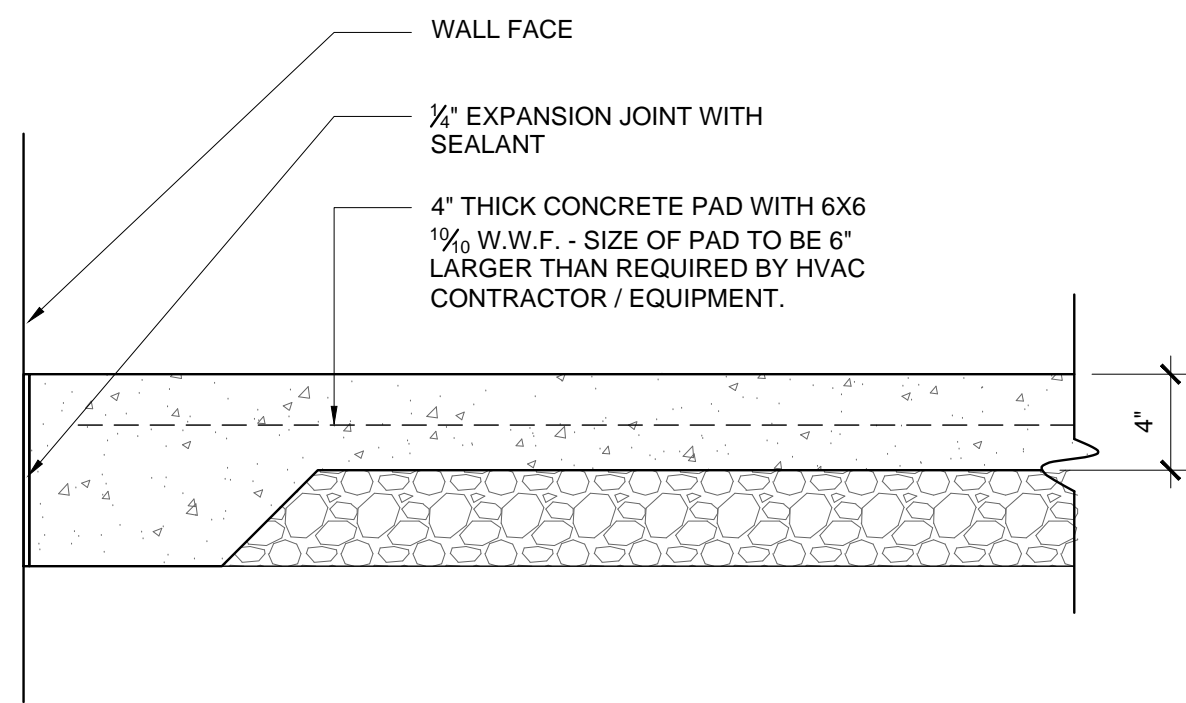
**FIRE EXTINGUISHER CABINET (FEC)**  
SCALE: 1 1/2" - 1'-0"



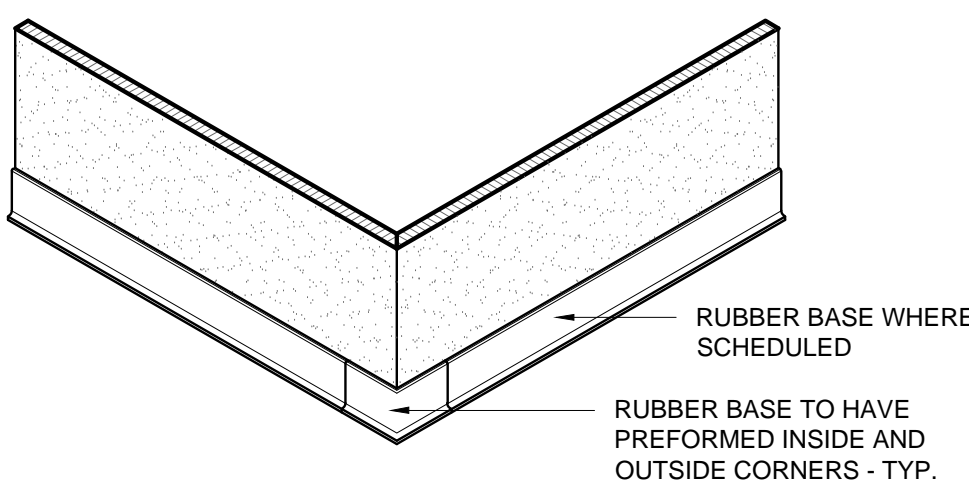
**ELECTRIC WATER COOLER (EWC)**  
SCALE: 1 1/2" - 1'-0"



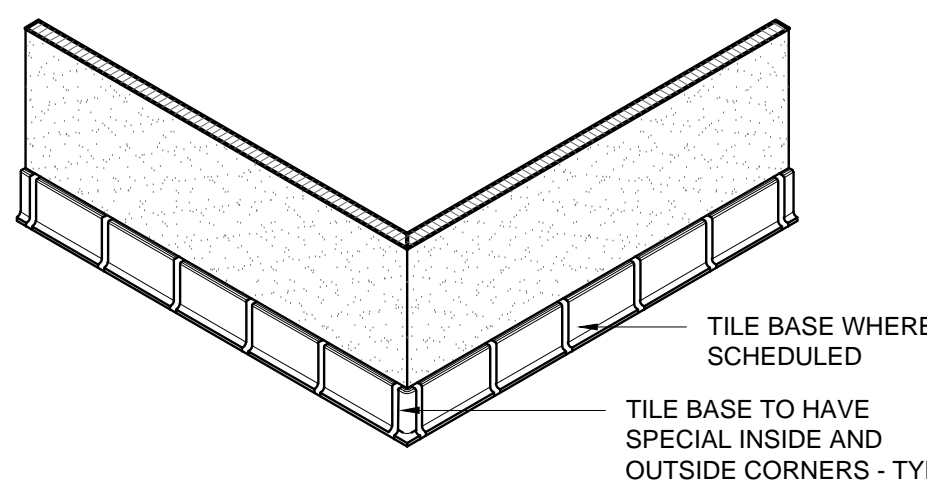
**PIPE BOLLARD (PB)**  
SCALE: 1 1/2" - 1'-0"



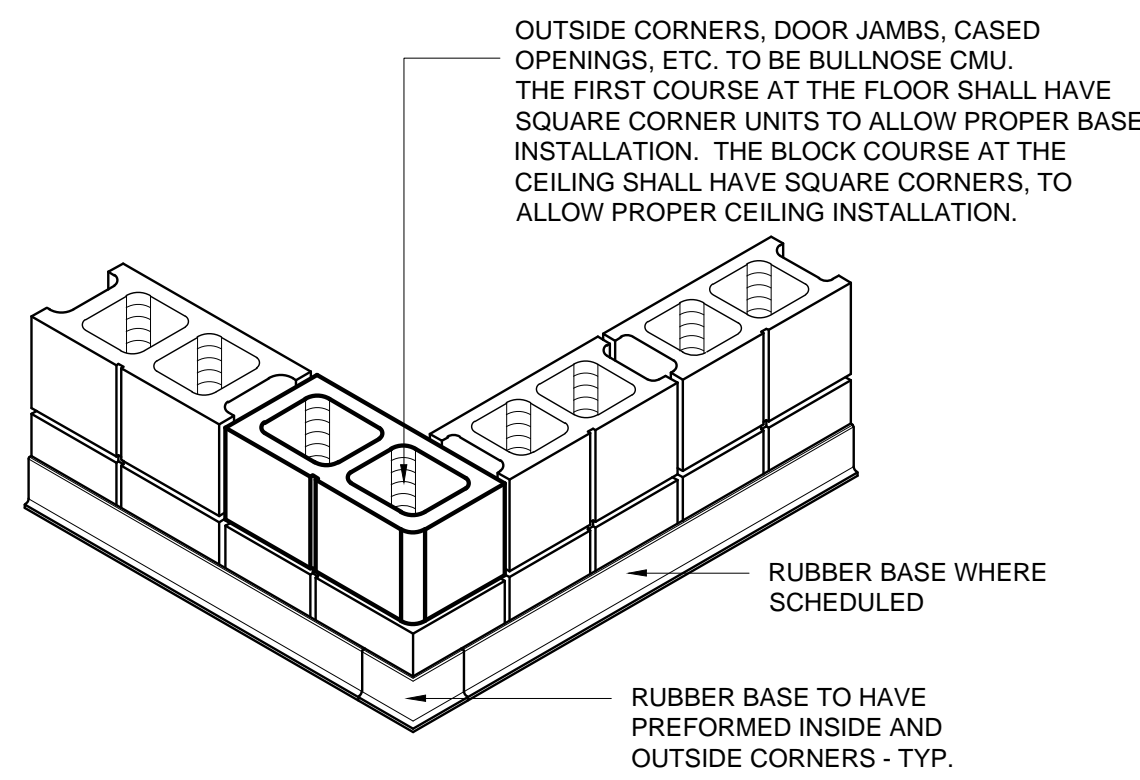
**HVAC EQUIPMENT PAD (CEP)**  
SCALE: 1 1/2" - 1'-0"



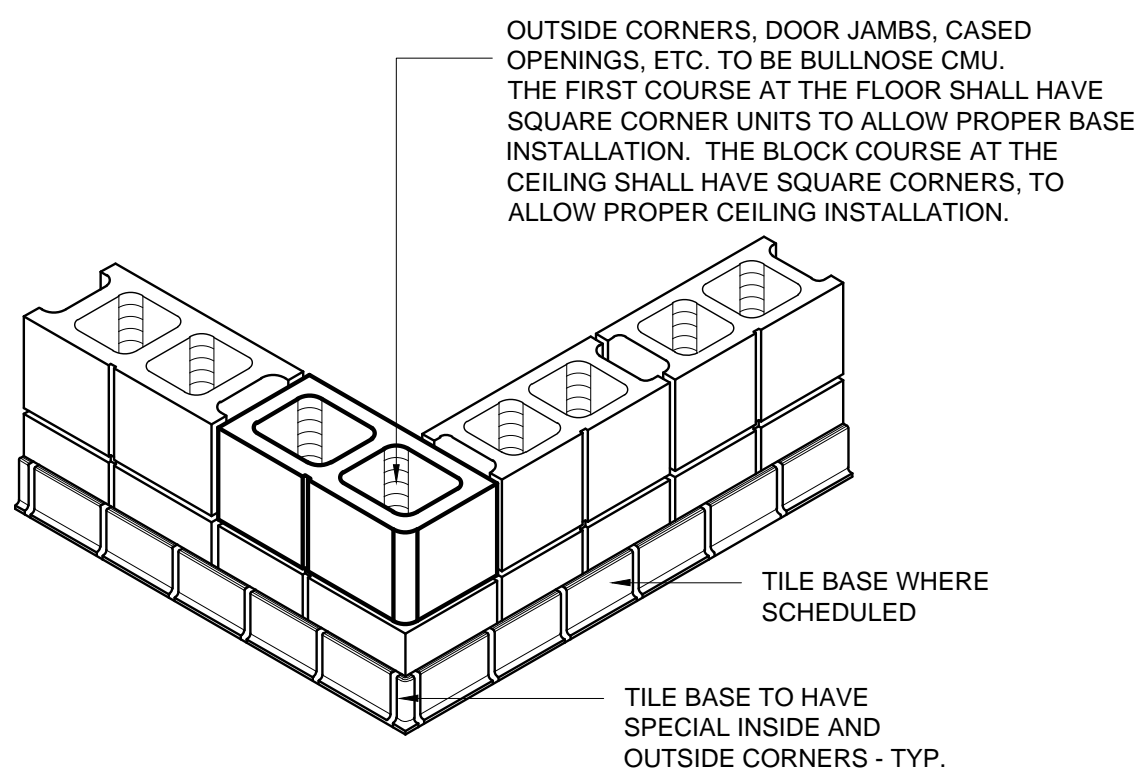
**RUBBER BASE DETAIL**  
SCALE: 3/4" - 1'-0"



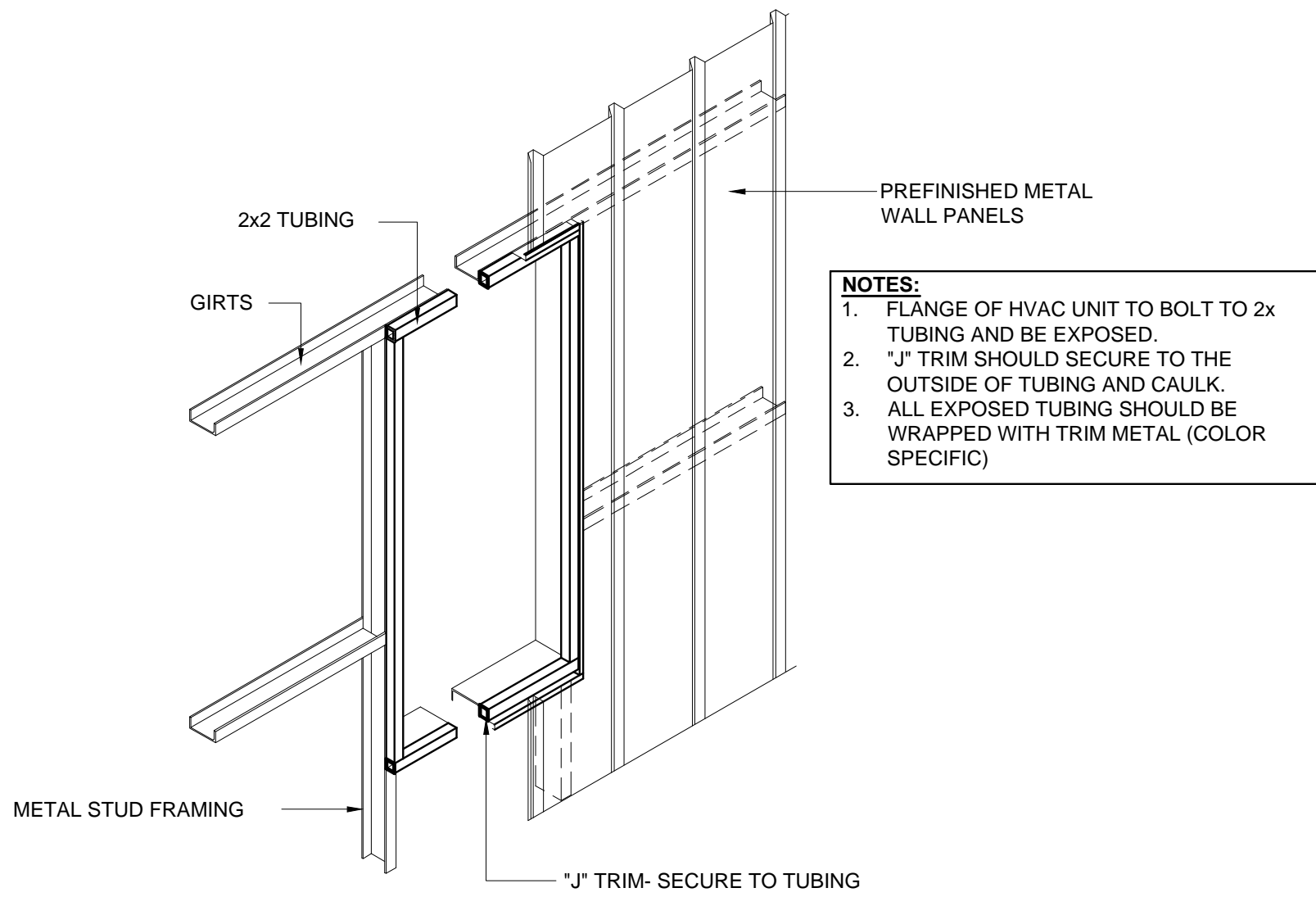
**HARD TILE DETAIL**  
SCALE: 3/4" - 1'-0"



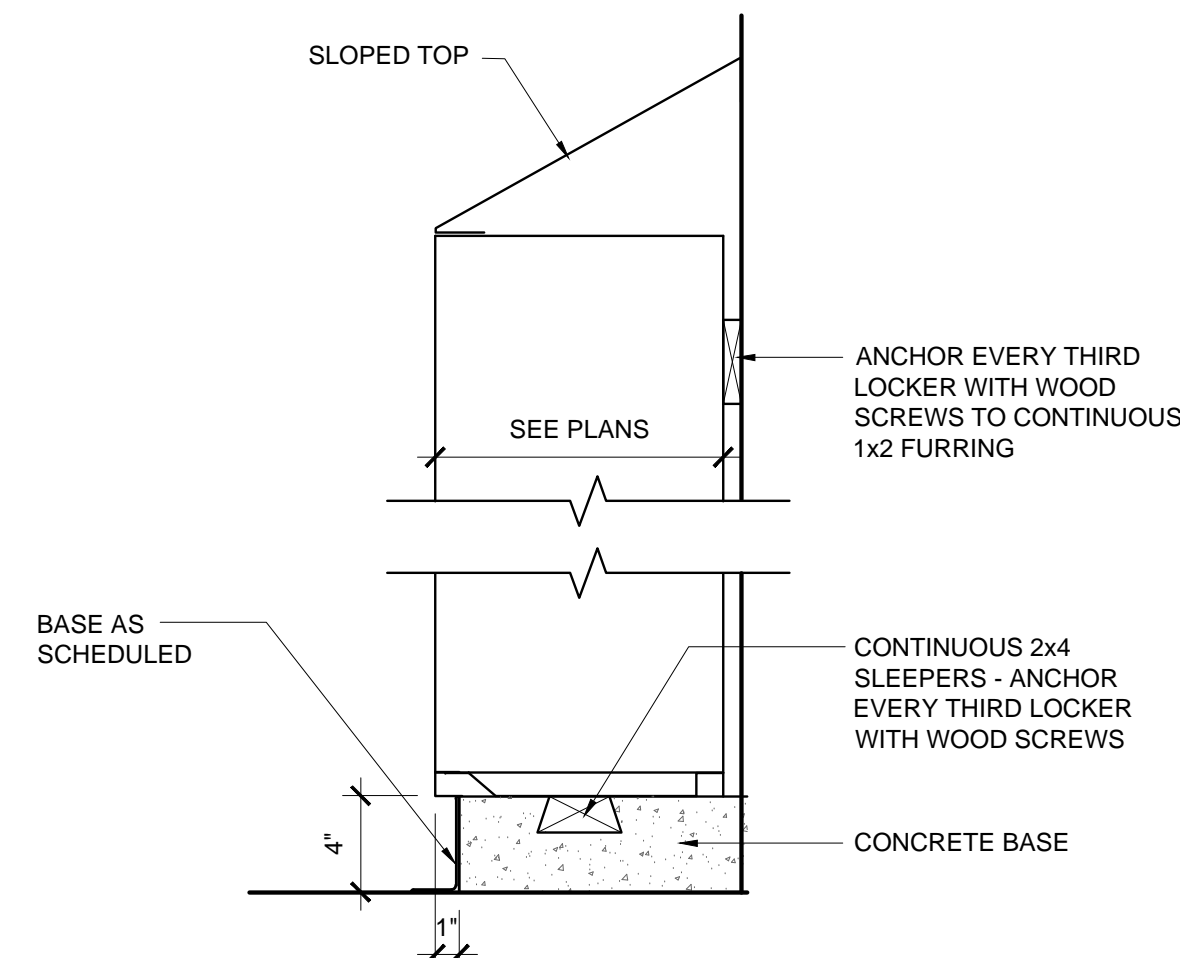
**RUBBER BASE DETAIL**  
SCALE: 3/4" - 1'-0"



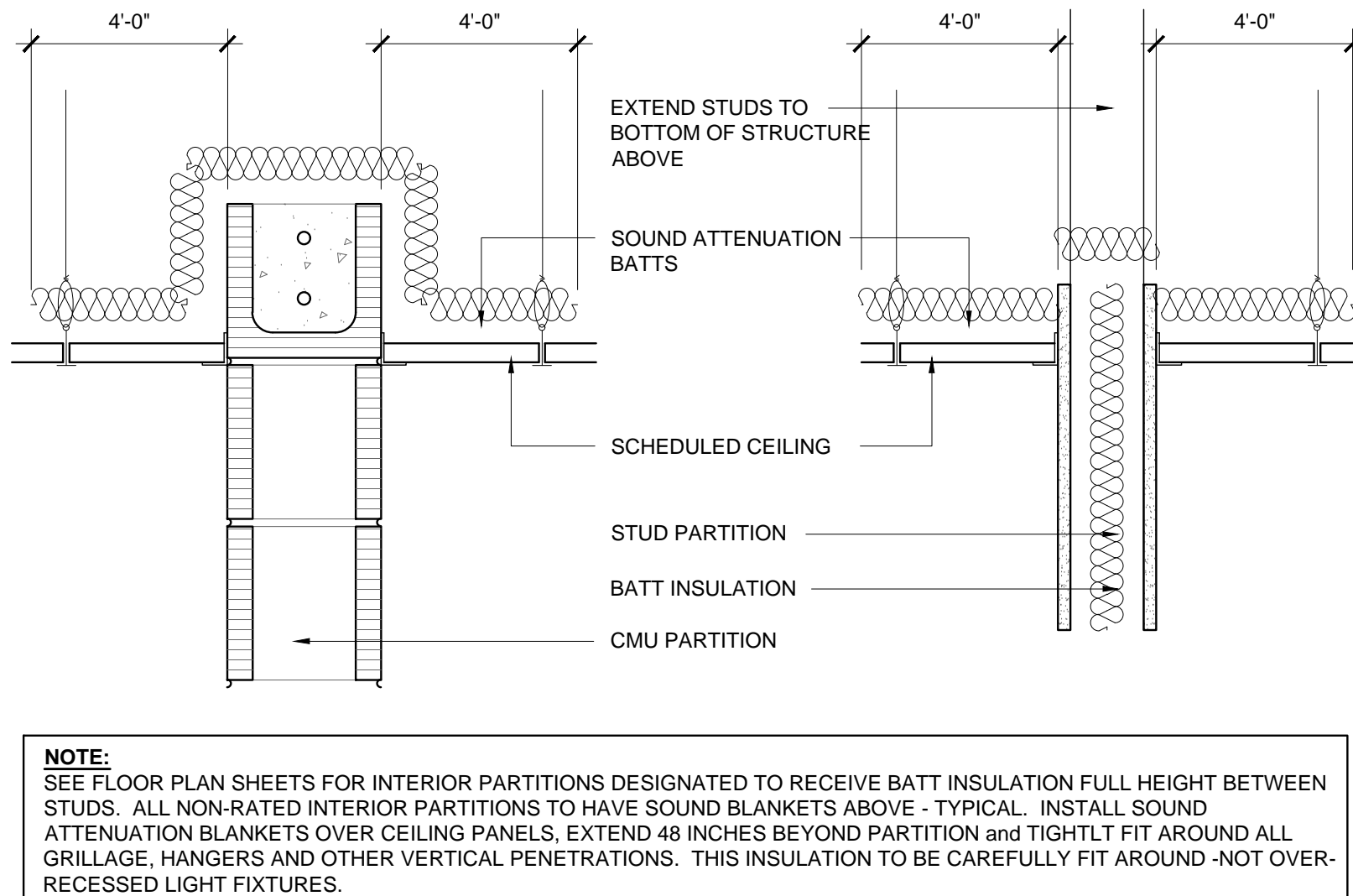
**HARD TILE DETAIL**  
SCALE: 3/4" - 1'-0"



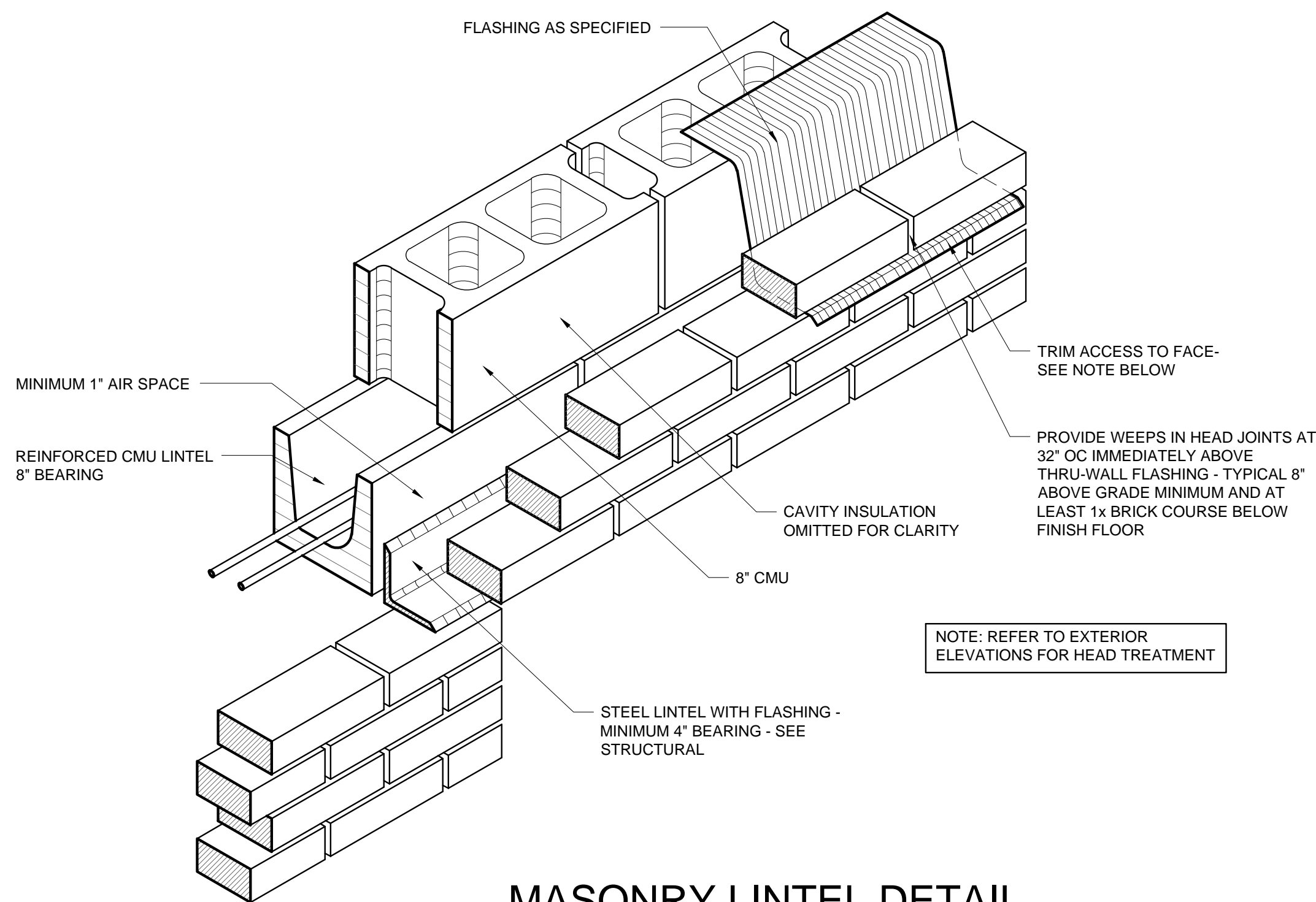
**HVAC THRU-WALL FRAMING DETAIL**  
SCALE: 1 1/2" - 1'-0"



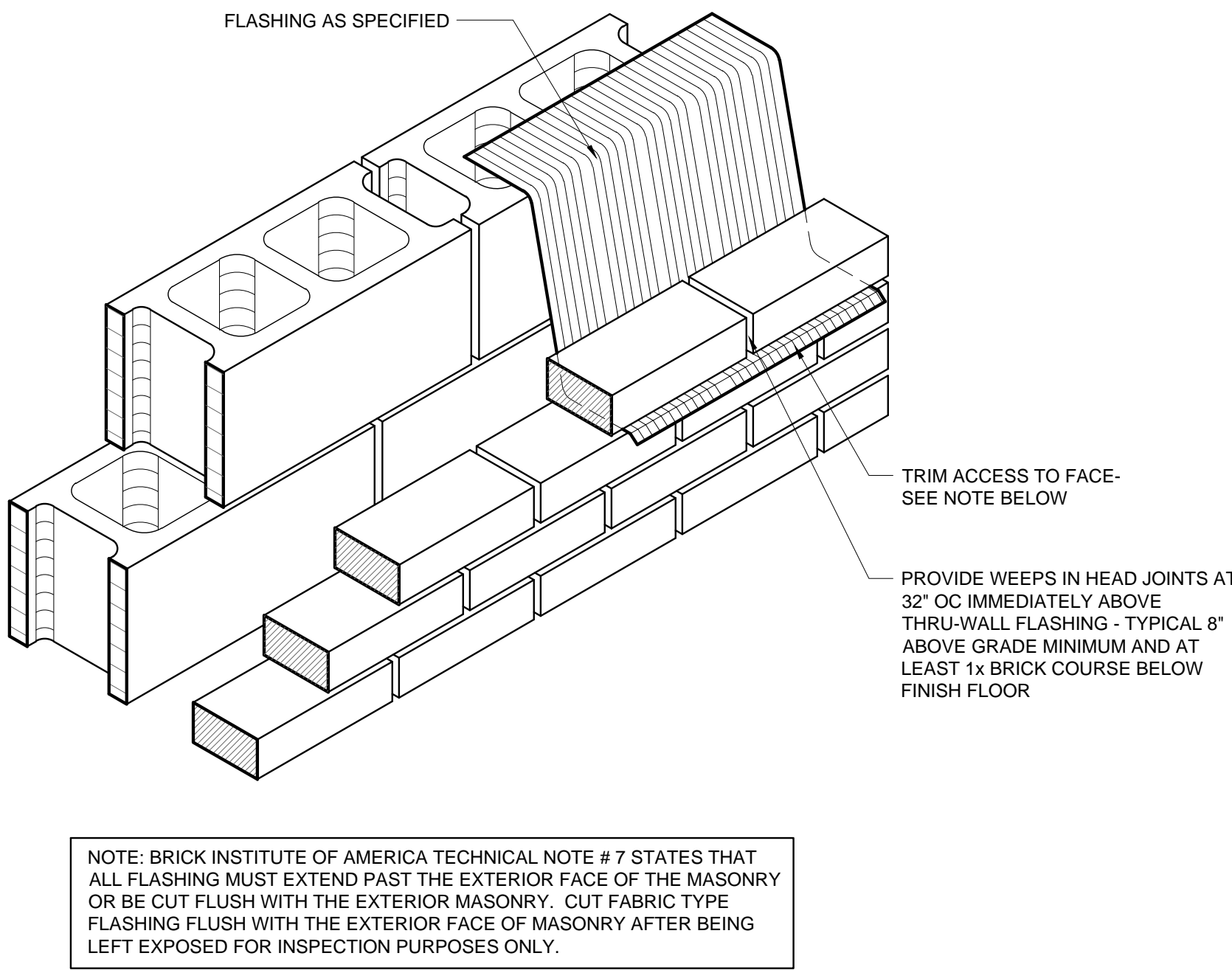
**LOCKER DETAIL**  
SCALE: 1 1/2" - 1'-0"



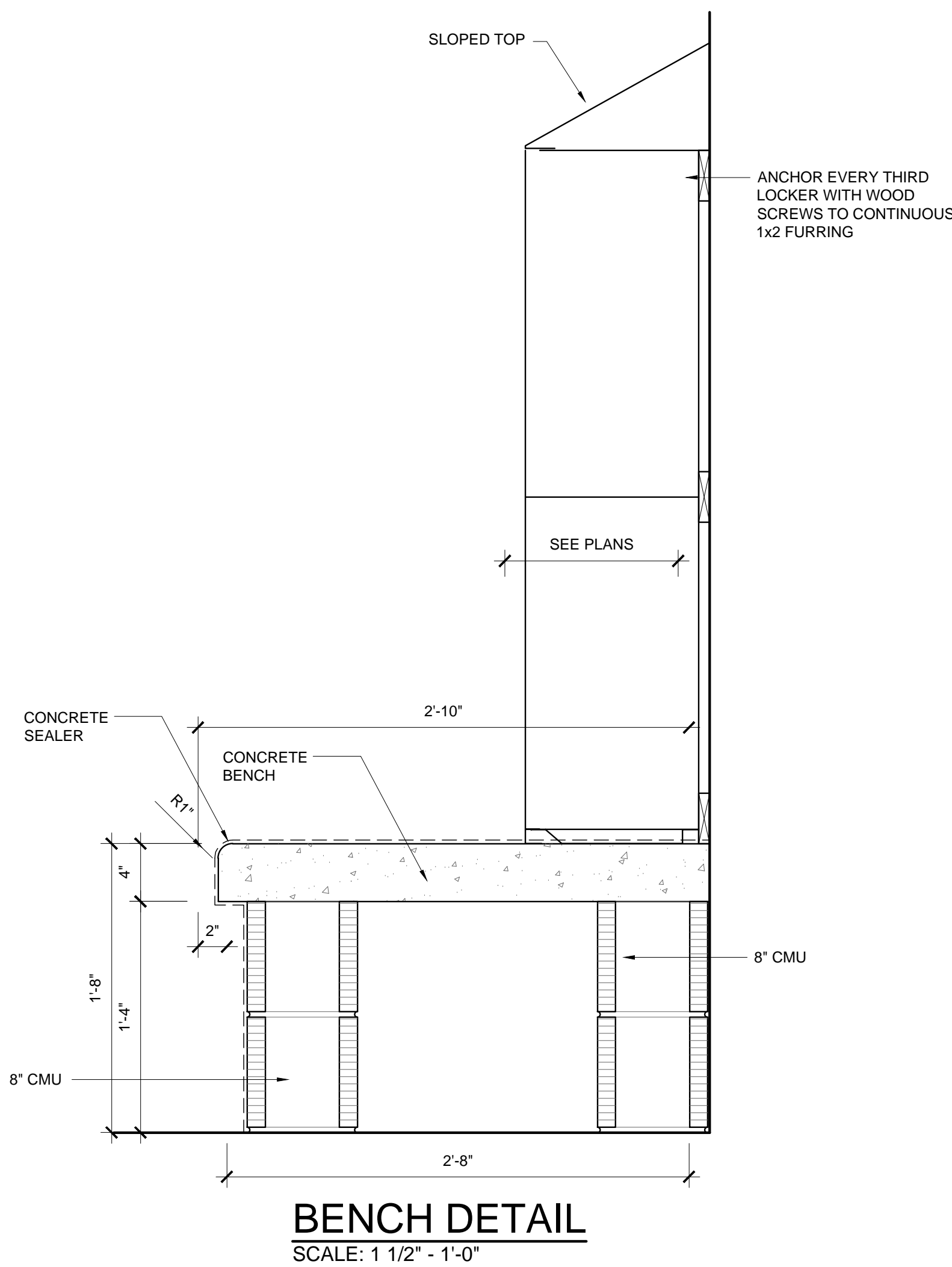
**SOUND BATT ATTENUATION DETAIL (SA)**  
SCALE: 1 1/2" - 1'-0"



**MASONRY LINTEL DETAIL**  
SCALE: 1 1/2" - 1'-0"



**THRU-WALL FLASHING DETAIL**  
SCALE: 1 1/2" - 1'-0"



**BENCH DETAIL**  
SCALE: 1 1/2" - 1'-0"

**GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION**

PHIL CAMPBELL, ALABAMA

**McKee and Associates**  
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SHEET TITLE : MISCELLANEOUS DETAILS

MCKEE JOB # : 21.269

DRAWN BY : AJB

DATE : 9.9.22

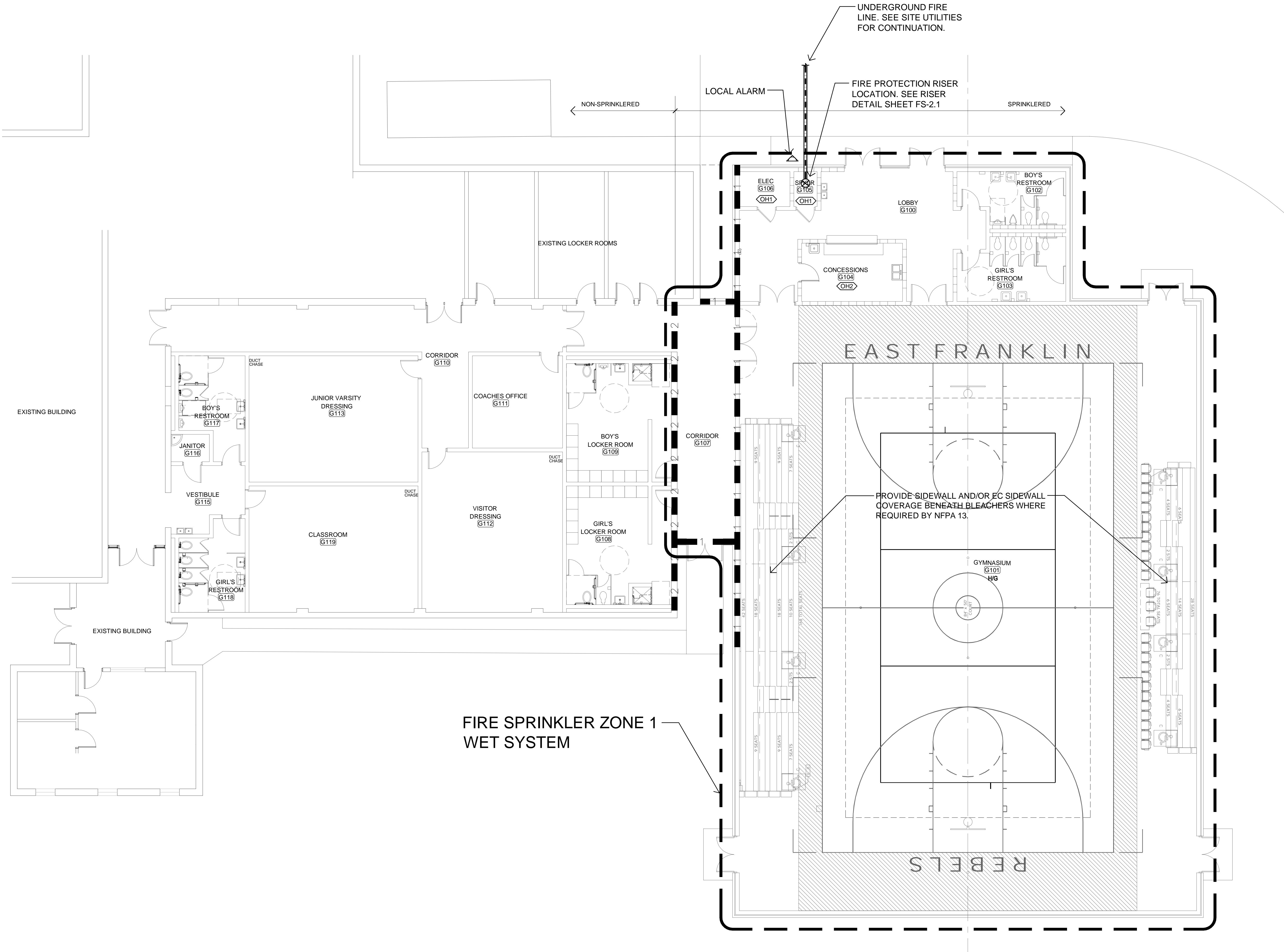
REVISED DATE :

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REVISED DATE :

SHEET NO. : **A9.1**

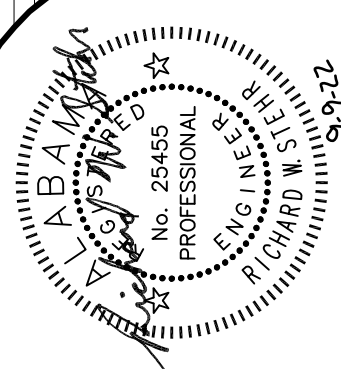




HAZARD CLASSIFICATION LEGEND	
ALL AREAS / SPACES ARE LIGHT HAZARD IN ACCORDANCE WITH NFPA 13 UNLESS NOTED OTHERWISE.	
SYMBOL	DESCRIPTION
<OH1>	ORDINARY HAZARD GROUP 1
<OH2>	ORDINARY HAZARD GROUP 2
<EH1>	EXTRA HAZARD GROUP 1
<EH2>	EXTRA HAZARD GROUP 2

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SHEET TITLE : FIRE SPRINKLER FLOOR PLAN

MCKEE JOB # : 21.269

DRAWN BY : RS/SG

DATE : 9.9.22

REVISED DATE :

REVISED DATE :

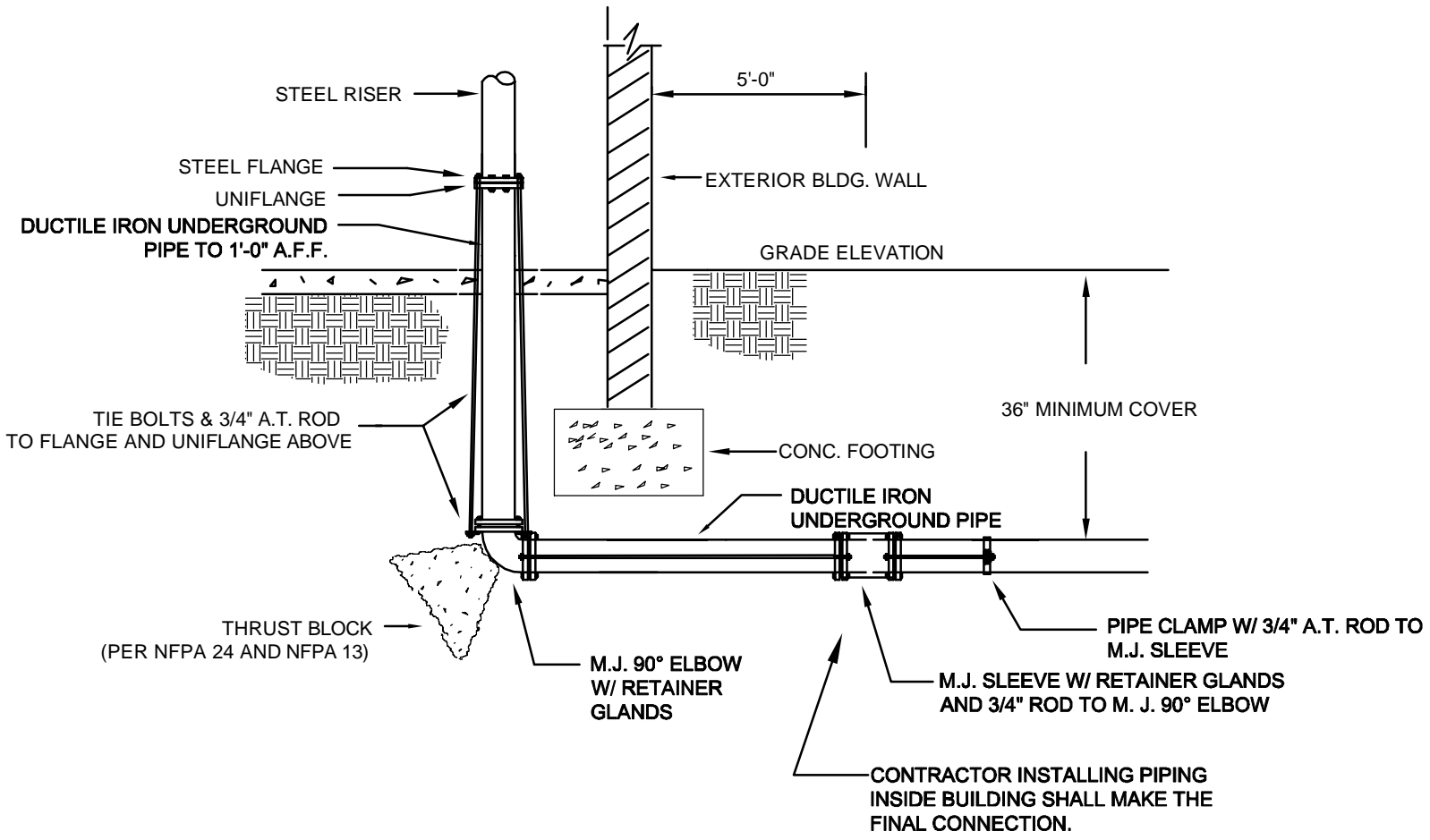
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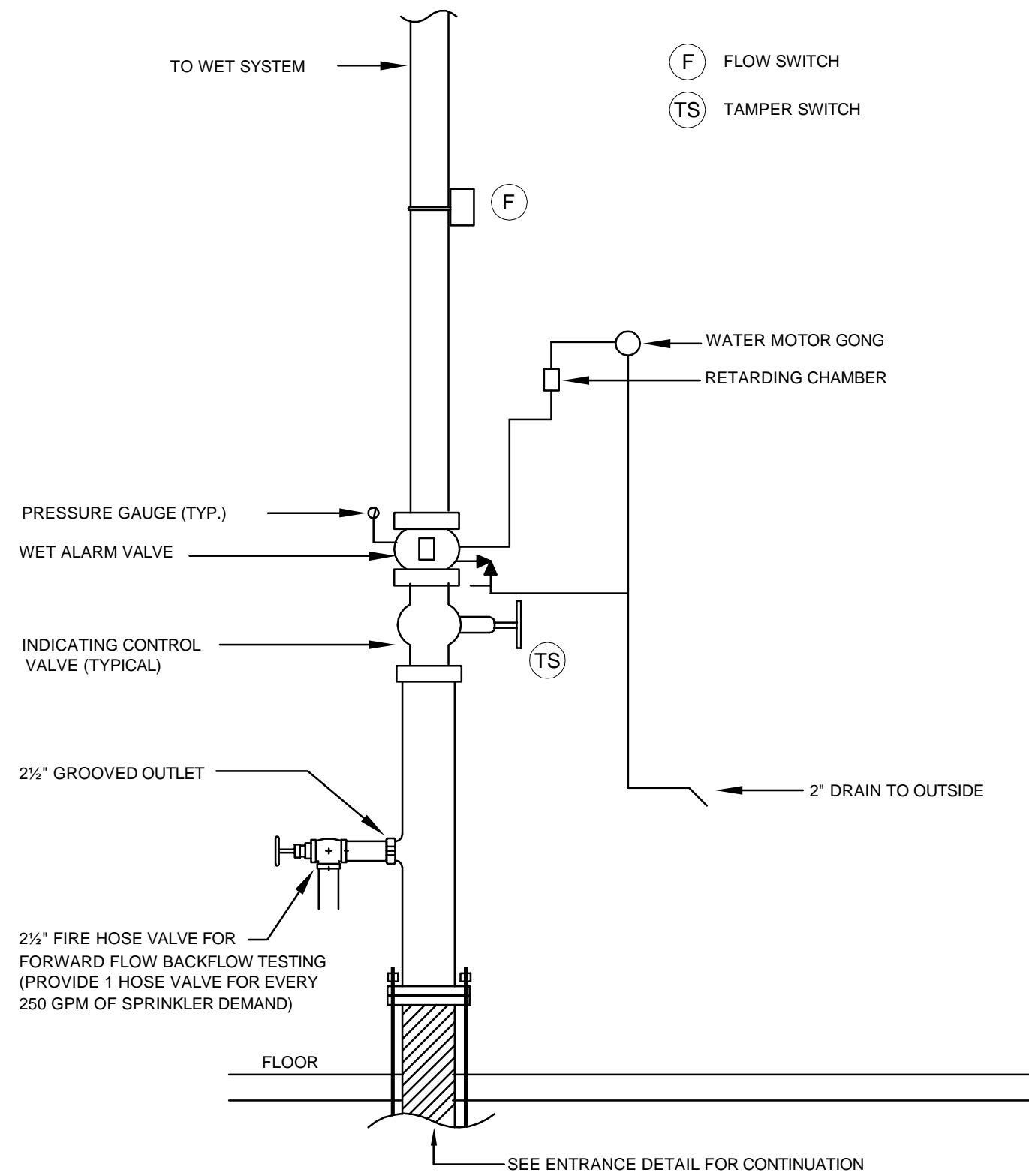
FIRE SPRINKLER NEW ADDITION FLOOR PLAN  
SCALE: 1/8" = 1'-0" 10,293 NEW ADDITION TOTAL SF

SHEET NO. : FS1.1





FIRE PROTECTION ENTRANCE DETAIL  
NO SCALE

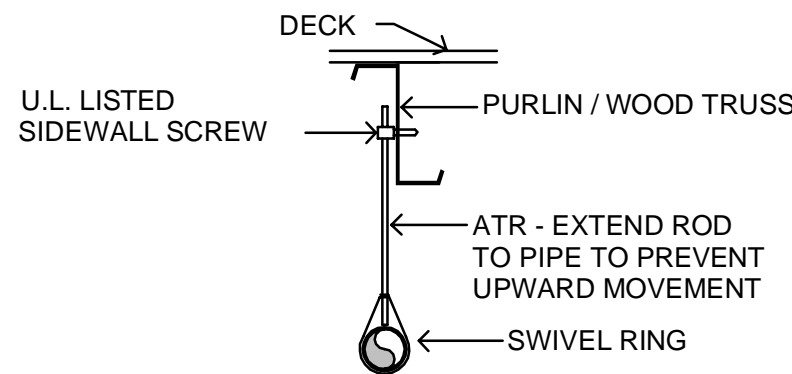


FIRE SPRINKLER ZONE 1 RISER DETAIL  
NO SCALE

NOTE TO CONTRACTOR :

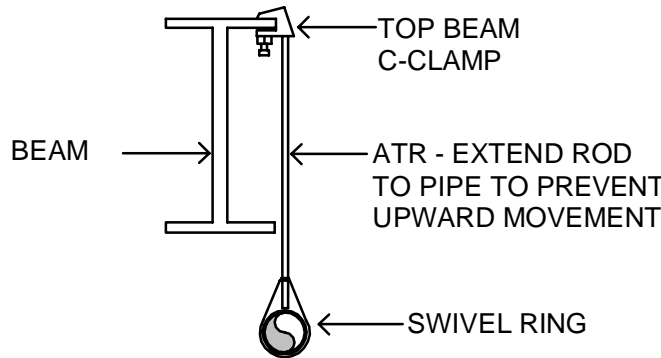
1. A LOW VOLTAGE ELECTRIC BELL TIED INTO THE ALARM SYSTEM MAY BE USED IN LIEU OF THE ALARM VALVE AND WATER MOTOR & GONG. IT IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO COORDINATE THIS CHANGE WITH ELECTRICAL / FIRE ALARM CONTRACTOR.

2. FIRE SPRINKLER SYSTEM BACKFLOW DEVICE AND FIRE DEPARTMENT CONNECTION TO BE LOCATED AT THE POINT OF CONNECTION TO THE PUBLIC WATER MAIN. SEE CIVIL DIVISION DOCUMENTS FOR EXACT LOCATION AND ARRANGEMENT. F.D.C. THREADS TO MATCH LOCAL FIRE DEPARTMENT.



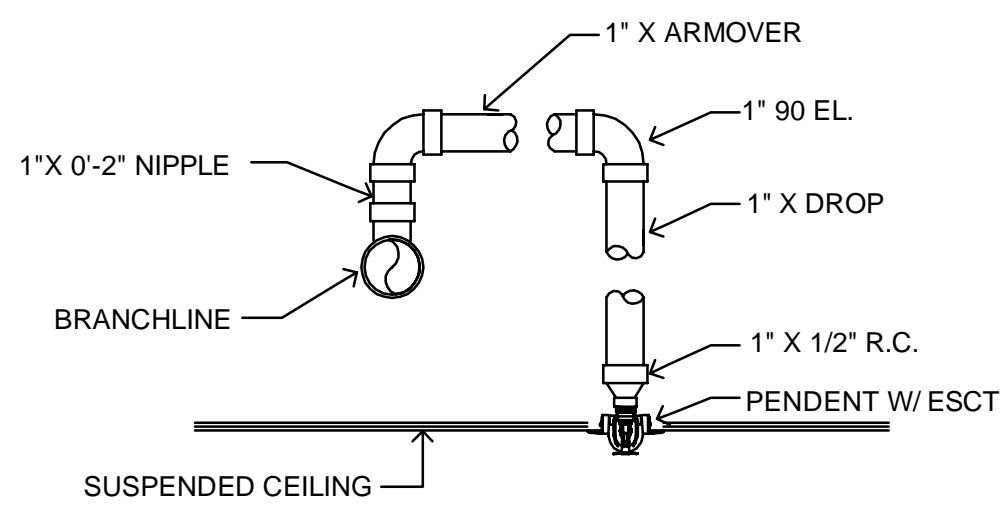
HANGER DETAIL  
NO SCALE

NOTE : ALL HANGER ASSEMBLIES TO BE U.L. LISTED



HANGER DETAIL  
NO SCALE

NOTE : ALL HANGER ASSEMBLIES TO BE U.L. LISTED



TYP. RETURN BEND ASSEMBLY  
NO SCALE

NOTE : ALL SPRINKLERS IN LAY-IN CEILINGS TO BE CENTERED BOTH WAYS

GENERAL NOTES :

1. ALL FIRE PROTECTION STUB-INS SHALL BE 5'-0" OUTSIDE BUILDING TO 1'-0" A.F.F.
2. ALL UNDERGROUND PIPING SHALL BE INSTALLED, TESTED, AND FLUSHED PER N.F.P.A. 24 BEFORE CONNECTING TO OVERHEAD PIPING.
3. ALL MATERIALS AND INSTALLATION OF THIS AUTOMATIC SPRINKLER SYSTEM SHALL CONFORM TO N.F.P.A. 13, N.F.P.A. 101, AND/OR MANUFACTURER'S LISTING.
4. ALL OVERHEAD PIPING SHALL BE TESTED PER N.F.P.A. 13.
5. SPRINKLER SYSTEM SHALL BE PROTECTED AGAINST FREEZING.
6. LOW POINTS OF SYSTEM SHALL HAVE PROVISIONS FOR PROPER DRAINAGE.
7. ALL FERROUS - WELDED OR SEAMLESS STEEL PIPE SHALL MEET ANSI / ASTM A-53. WELDING BY CERTIFIED WELDER.
8. 24 HOUR SUPERVISION SHALL BE PROVIDED.
9. A SPARE HEAD CABINET SHALL BE PROVIDED WITH A MINIMUM OF 6 OF EACH TYPE OF SPRINKLER USED.
10. HYDRAULIC CALCULATIONS SHALL BE PERFORMED BY SPRINKLER CONTRACTOR. HYDRAULIC CALCULATIONS SHALL BE PER N.F.P.A. 13 AND BASED ON CURRENT FLOW TEST PERFORMED BY SPRINKLER CONTRACTOR.
11. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO CONDUCT & VERIFY WATER FLOW INFORMATION. CONTACT THE LOCAL WATER AUTHORITY AND/OR FIRE DEPARTMENT BEFORE PERFORMING THE TEST.
12. PLANS TO BE SUBMITTED TO STATE/LOCAL AUTHORITY, OWNER'S INSURANCE UNDERWRITER, AND ARCHITECT FOR APPROVAL.
13. SPRINKLER PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS OR TRANSFORMERS.
14. PROVIDE HANGERS ON ARMOVERS OVER 1'-0" LONG WHEN PRESSURE EXCEEDS 100 PSI. OTHERWISE, PROVIDE HANGERS ON ARMOVERS OVER 2'-0" LONG.
15. PROVIDE SPRINKLER HEAD GUARDS ON ALL SPRINKLERS SUBJECT TO MECHANICAL INJURY (NOTED BY HIG ON PLAN).
16. ALL SPRINKLERS SHALL BE LISTED AS QUICK RESPONSE.
17. VERIFY WITH ALL APPLICABLE CODES/STANDARDS, STATE, AND LOCAL AHJ, THE REQUIREMENTS FOR SPRINKLERS IN THE ELEVATOR IF PRESENT. COORDINATE WITH ALL OTHER TRADES THE LOCATION OF SPRINKLERS.
18. SEISMIC BRACING: REFER TO STRUCTURAL CONTRACT DOCUMENTS FOR INFORMATION REGARDING OVERALL SEISMIC DESIGN CATEGORY FOR THE BUILDING. WHERE SEISMIC DESIGN CATEGORY IS "C" THROUGH "F", PROVIDE SEISMIC BRACING IN ACCORDANCE WITH 2013 EDITION OF NFPA 13. SEISMIC BRACING IS NOT REQUIRED WHERE SEISMIC DESIGN CATEGORY IS "A", OR "B".

SPRINKLER SYSTEM SCHEDULE					
ROOM OR AREA	SYSTEM TYPE	OCCUPANCY CLASSIFICATION	DENSITY GPM/SQ.FT.	CALCULATED AREA SQ.FT.	GPM HOSE ALLOWANCE
GYM, OFFICES, LOCKER ROOMS, CLASSROOMS, TOILETS, CLOSETS, ETC.	WET PIPE	LIGHT	.10	1500	100
MECHANICAL, ELECTRICAL, JANITOR, UNASSIGNED, UNFINISHED, ETC.	WET PIPE	ORDINARY 1	.15	1500	250
STORAGE ROOMS, CONCESSIONS, ETC.	WET PIPE	ORDINARY 2	.20	1500	250

NOTES

1. ALL AREAS, INCLUDING TOILETS AND CLOSETS, SHALL BE PROTECTED PER NFPA-13 AND ALL AUTHORITIES HAVING JURISDICTION UNLESS NOTED.
2. EXACT LOCATION OF SPRINKLERS AND PIPING SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER TRADES BY SPRINKLER CONTRACTOR.
3. PIPE SIZES SHALL BE PER SPRINKLER CONTRACTOR HYDRAULIC CALCULATIONS.
4. ALL PIPING SHALL BE CONCEALED ABOVE CEILINGS, IN WALLS, AND IN PIPE CHASES. EXPOSED PIPING PERMITTED ONLY IN MECHANICAL ROOMS, OR EQUIVALENT SPACES WITHOUT DROP CEILINGS. EXPOSED PIPING IN PUBLIC SPACES SHALL BE PAINTED. COLOR TO BE SPECIFIED BY OWNER.

SHEET TITLE : FIRE SPRINKLER  
NOTES & DETAILS

MCKEE JOB # : 21.269

DRAWN BY : RS/SG

DATE : 9.9.22

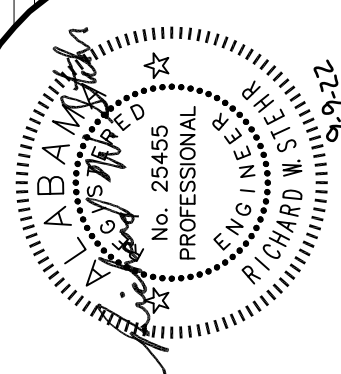
REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : FS2.1

GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
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FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA

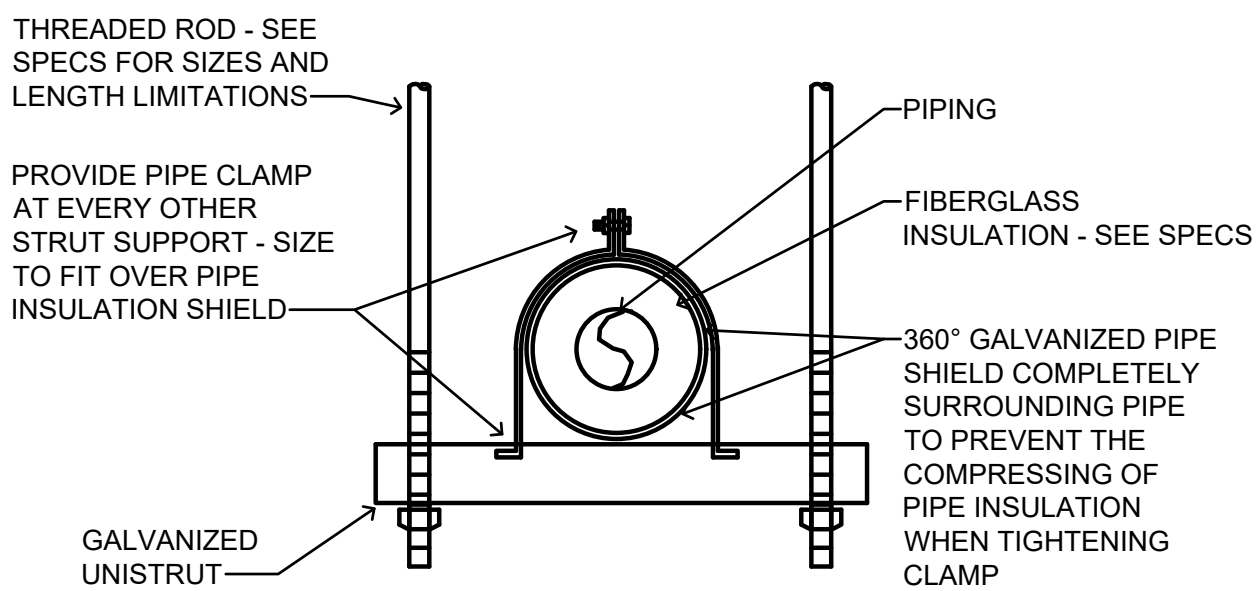


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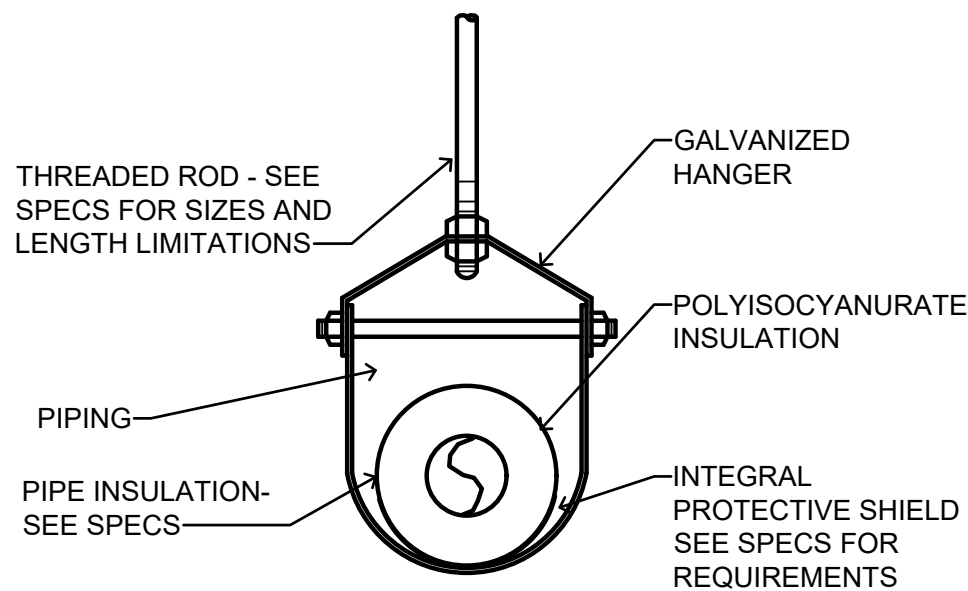
PLUMBING FIXTURE SCHEDULE					
NO.	FIXTURE	WASTE	C.W.	H.W.	REMARKS
P1	WATER CLOSET	3"	1"	---	FL. MTD. - REG.
P2	ADA WATER CLOSET	3"	1"	---	FL. MTD. - ADA
P3	URINAL	2"	3/4"	---	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P4	ADA LAVATORY **	1 1/4"	1/2"	1/2"	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P5	MOP BASIN	3"	1/2"	1/2"	FL. MTD. CORNER TYPE
P6	SPLIT LEVEL EWC	1 1/2"	1/2"	---	WALL HUNG - HIGH/LOW
P7	HAND SINK	1-1/2"	1/2"	1/2"	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P8	2-COMP SINK	F.S.	1/2"	1/2"	2-COMP SINK
P9	ADA SHOWER	SD	1/2"	1/2"	---
T.P.	TRAP PRIMER	---	1/2"	---	CONNECT TO FLOOR DRAIN AS SPECIFIED
					PROVIDE ASSE 1022 COMPLIANT BACK FLOW PREVENTER

\*\* PROVIDE A WATER TEMPERATURE LIMITING DEVICE EQUAL TO SYMMONS #5-219-CK (ASSE STD. 1070) WITH 1/2" TEMPERED WATER LINE TO FAUCET.



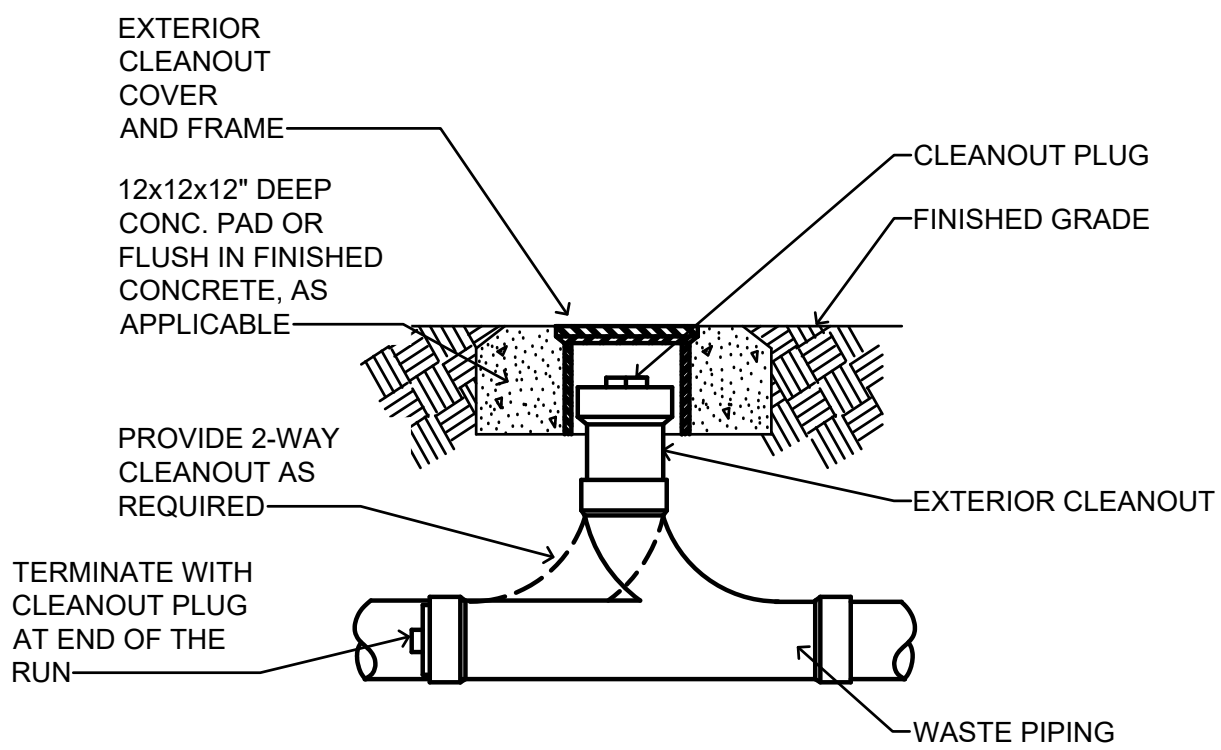
TYPICAL UNISTRUT HANGER DETAIL

NO SCALE  
NOTES:  
1. HANGER SPACING TO BE AS SPECIFIED.



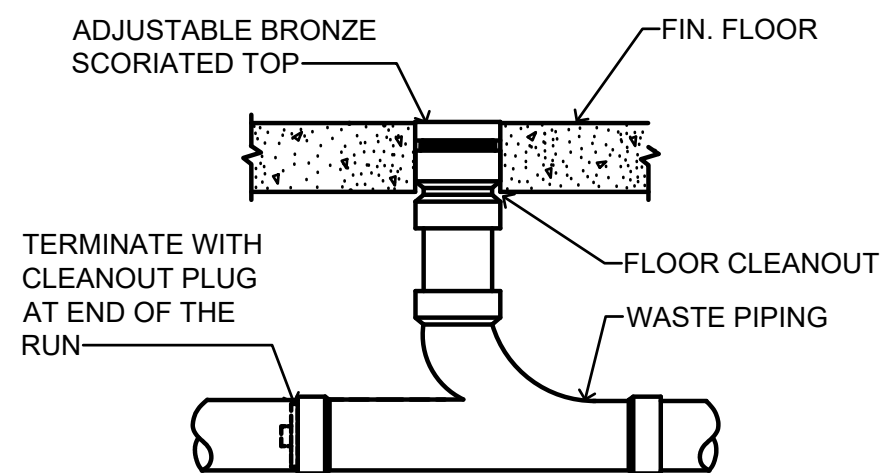
TYPICAL PIPE HANGER DETAIL

NO SCALE  
NOTES:  
1. HANGER SPACING TO BE AS SPECIFIED.  
2. MANUFACTURER'S SADDLE LABEL WITH LOGO STICKER SHALL BE APPLIED TO EACH SADDLE AND SHALL BE VISIBLE FOR VERIFICATION OF PROPER INSTALLATION.



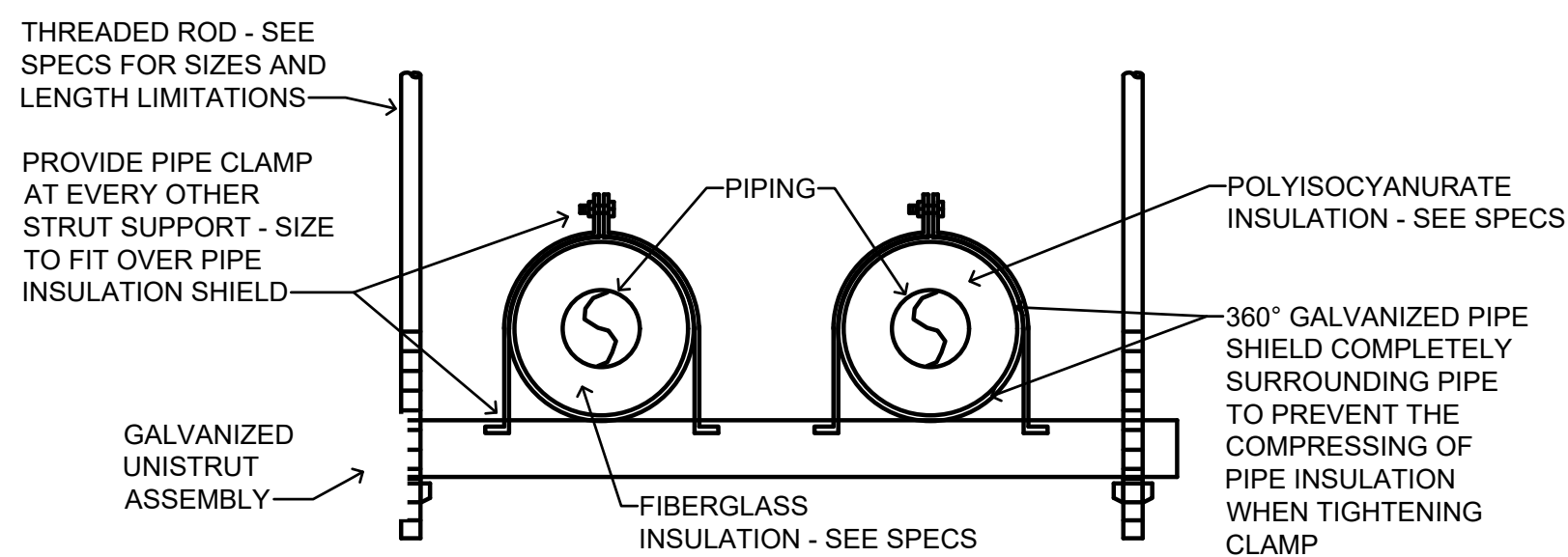
TYP. EXTERIOR CLEANOUT DETAIL

NO SCALE



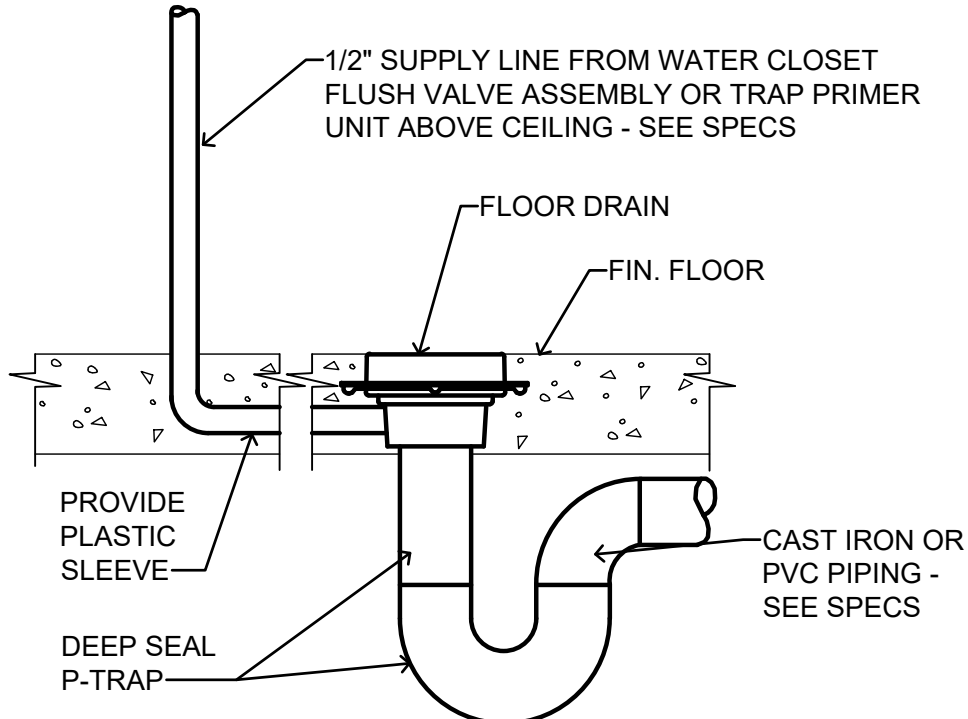
TYP. FLOOR CLEANOUT DETAIL

NO SCALE



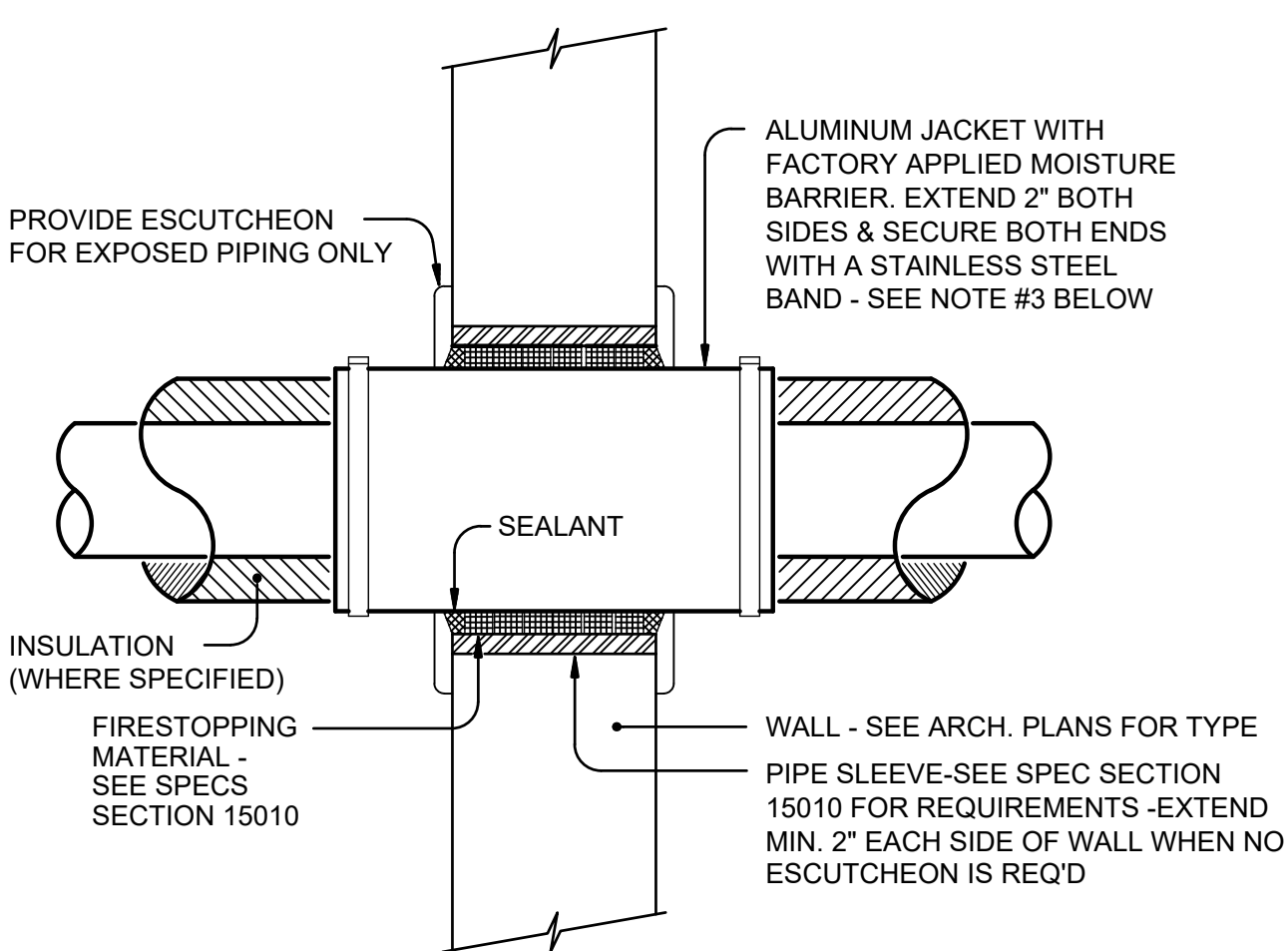
TYPICAL MULTIPLE PIPES HANGER DETAIL

NO SCALE



TRAP PRIMER DETAIL

NO SCALE



INTERIOR WALL PIPE PENETRATION DETAIL

NOT TO SCALE

NOTES:  
1. DETAIL APPLIES TO ALL PIPING ABOVE AND BELOW THE CEILING.  
2. AT GYPSUM BOARD WALLS, PROVIDE MINIMUM 10 GA. GALVANIZED STEEL SLEEVE WITH LOCKING TYPE LONGITUDINAL SEAM.  
3. OMIT ALUMINUM JACKET IF PIPING IS UNINSULATED.  
4. ONLY ONE PIPE PER SLEEVE ALLOWED

GENERAL PLUMBING NOTES

- ROUGH IN WATER CLOSET AND URINAL FLUSH VALVE SO THAT THE FLUSH TUBE IS VERTICALLY STRAIGHT.
- ADA FIXTURES AND INSTALLATION SHALL COMPLY WITH CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- FLUSH VALVE HANDLE FOR ALL MANUAL FLUSH WATER CLOSETS SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AS REQUIRED BY CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- ROUGH-IN ADA WATER CLOSETS 18" FROM FINISHED WALL TO CENTERLINE OF THE WATER CLOSET. MEASURE FROM FACE OF SHORT SIDE OF THE STALL TO THE FINISHED WALL.
- PROVIDE A CAST IRON DEEP SEAL P-TRAP FOR EACH FLOOR DRAIN AND HUB DRAIN.
- ROUTE ALL OVERHEAD WATER PIPING AND WATER PIPING WITHIN NON-MASONRY WALLS WITHIN THE BUILDING INSULATION ENVELOPE.
- ALL WATER PIPING WITHIN MASONRY WALLS SHALL BE INSULATED AS SPECIFIED.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING EXTERIOR WALL INSULATION
- COORDINATE ALL PIPING RUNS WITH THE ELECTRICAL PLANS AND THE ELECTRICAL CONTRACTOR. DO NOT ROUTE ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR, ETC. MAINTAIN CLEARANCES AS REQUIRED BY RESPECTIVE CODES.
- ALL PIPING AND FITTINGS ROUTED IN/THROUGH RETURN AIR PLENUMS, RETURN AIR PLATFORMS, OR FIRE RATED PARTITIONS AND ENCLOSURES SHALL BE CAST IRON OR PVDF. SEE SPECS.
- PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10'-0" DISTANCE FROM ALL HVAC OUTSIDE AIR INTAKES.
- PROVIDE A READILY ACCESSIBLE CLEANOUT AT OR NEAR THE BASE OF EACH WASTE AND VENT STACK PER INTERNATIONAL PLUMBING CODE AND THE SPECIFICATIONS. LOCATE TO THE SIDE OF THE WATER CLOSETS WITH A MINIMUM CLEARANCE OF 6" FROM THE ROUGH-IN OF THE WATER CLOSETS. PREFERRED LOCATION IS IN ADA STALL TO ALLOW FOR ADDITIONAL ACCESS SPACE.
- WATER SUPPLY SYSTEM IS DESIGNED FOR A STATIC PRESSURE OF 50 TO 75 PSI. GAUGE WATER SUPPLY PRESSURE AND VERIFY PRESSURE IS WITHIN THE SPECIFIED LIMITS. PROVIDE WATER PRESSURE REDUCING VALVE AS REQUIRED TO MAINTAIN WATER PRESSURE WITHIN DESIGN LIMITS.
- PROVIDE A BALL VALVE ON EACH SIDE OF EVERY DIELECTRIC UNION TO FACILITATE ITS REMOVAL.
- TOPS OF ALL OUTSIDE CLEANOUTS SHALL BE FLAT AND BROUGHT TO GRADE AND FINISHED FLUSH IN 12x12x12 CONCRETE PAD.
- ALL INTERIOR AND EXTERIOR WALL HYDRANTS AND HOSE BIBBS SHALL BE LOCATED 24" A.F.F. COORDINATE FINAL HEIGHT OF INDOOR WALL HYDRANTS WITH ARCHITECTURAL CABINET PLANS PRIOR TO ROUGHING IN.
- WATER HAMMER ARRESTORS SHALL BE INSTALLED AT ALL SOLENOID, REMOTE OPERATED OR QUICK CLOSING VALVES AND AT EACH PLUMBING FIXTURE OR BATTERY OF PLUMBING FIXTURES. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
- ALL HUB DRAINS THAT RISE THROUGH RETURN AIR PLATFORMS SHALL BE INSULATED CAST IRON, SHALL BE TERMINATED TO 6" ABOVE THE RETURN AIR PLATFORM AND SEALED AIR TIGHT. COORDINATE REQUIREMENT WITH MECHANICAL CONTRACTOR.
- ALL PIPING WITH VALVES AND OTHER ITEMS THAT MAY REQUIRE MAINTENANCE, SERVICE OR REPLACEMENT, SHALL BE LOCATED NO MORE THAN 12" ABOVE THE FINISHED CEILING AND NO MORE THAN 14'-0" ABOVE FINISH FLOOR IN AREAS WITHOUT CEILINGS, TO ENSURE PROPER ACCESS. PROVIDE DROPS IN PIPING AS REQUIRED FOR COMPLIANCE.

LEGEND

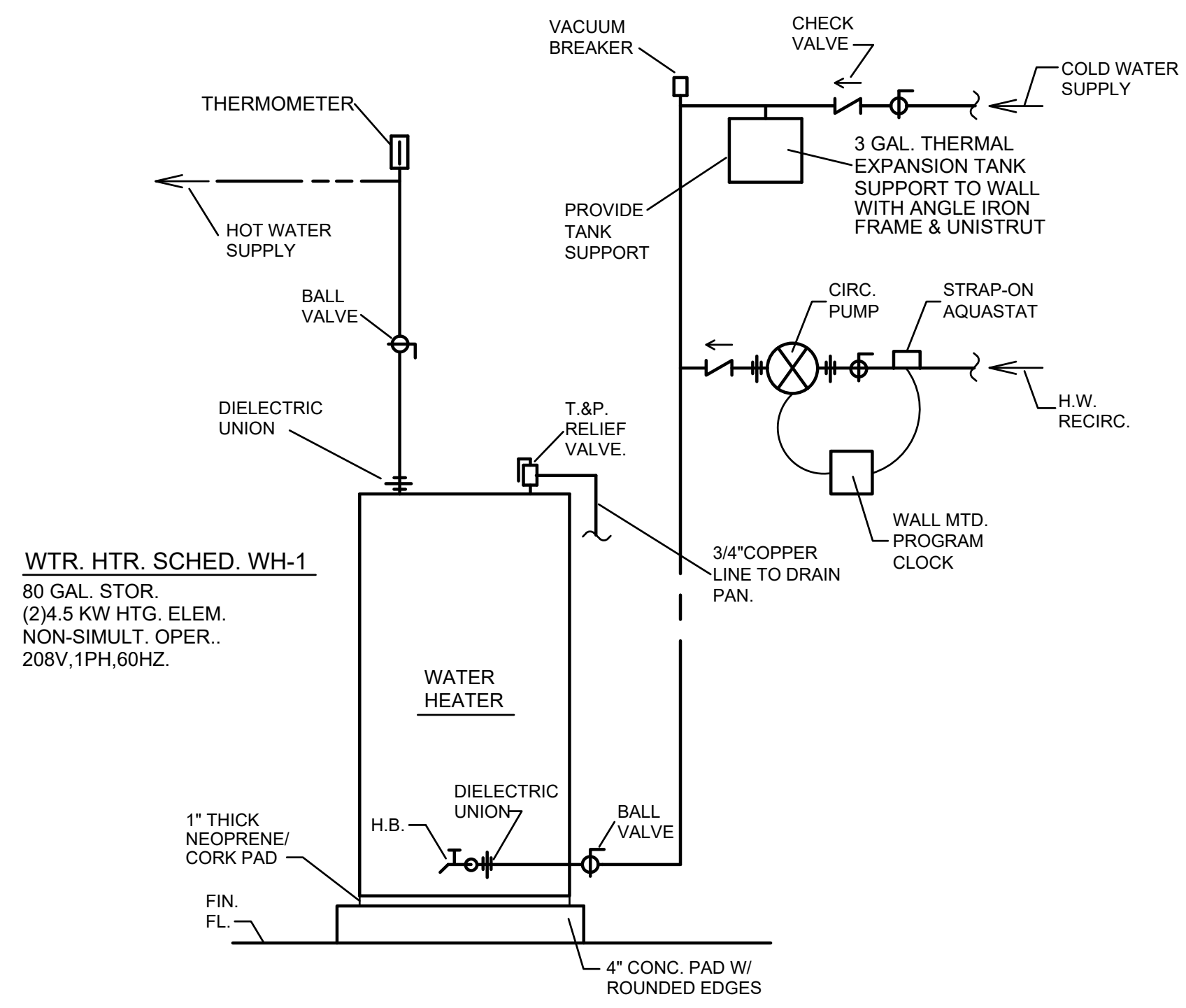
---	WASTE PIPE
---	VENT PIPE
---	COLD WATER PIPE
---	HOT WTR. PIPE (125°)
---	HOT WTR. RECIRC. PIPE
---	GAS PIPE
---	STORM WATER PIPE
---	ACID RESIST. WASTE PIPE
---	ACID RESIST. VENT PIPE

---	UNION
---	GATE VALVE
---	CHECK VALVE
---	BALL VALVE

B.V.	BALL VALVE
C.I.	CAST IRON
C.O.	CLEANOUT
D.S.	DOWNSPOUT
FCO	FLOOR CLEANOUT
F.D.	FLOOR DRAIN
M.F.D.	MECH. FLOOR DRAIN
K.F.D.	KITCHEN FLOOR DRAIN
F.S.	FLOOR SINK
G.V.	GATE VALVE
H/C	HANDICAPPED
H.D.	HUB DRAIN
H.B.	HOSE BIBBS
W.H.	WALL HYDRANT
R.D.	ROOF DRAIN
T.P.	TRAP PRIMER
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
VSTR	VENT STACK THRU ROOF
VSTW	VENT STACK THRU WALL
W&V	WASTE AND VENT

INDICATES POINT OF CONNECTION TO EXISTING

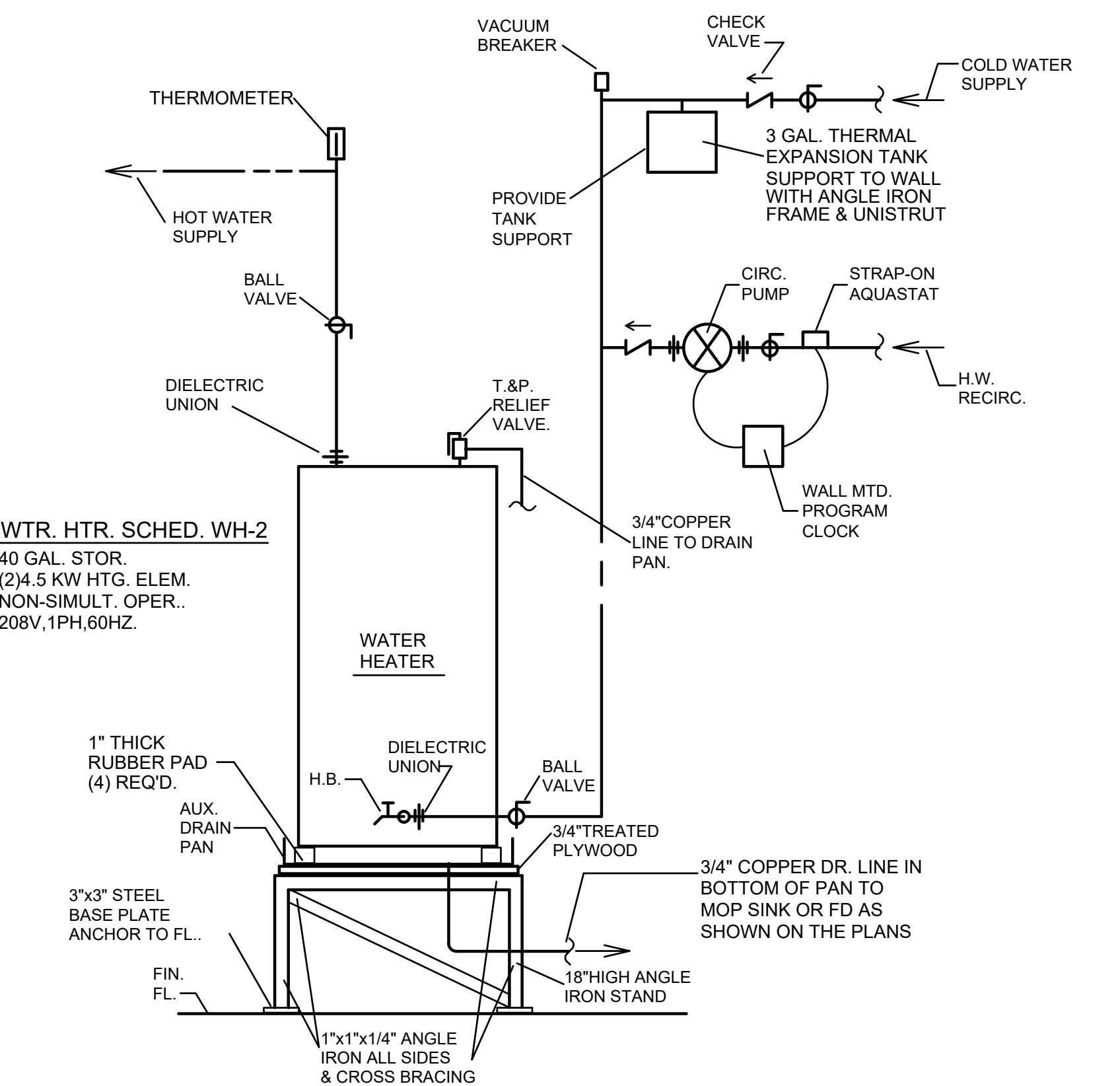
INDICATES POINT OF CONNECTION TO OUTSIDE UTILITY. SEE CIVIL DWGS..



WATER HEATER DETAIL

NO SCALE

NOTE: PREFABRICATED WATER HEATER STANDS ARE NOT ALLOWED



WATER HEATER DETAIL

NO SCALE

NOTE: PREFABRICATED WATER HEATER STANDS ARE NOT ALLOWED

GYM ADDITION TO EAST FRANKLIN JUNIOR HIGH SCHOOL

FOR FRANKLIN COUNTY SCHOOLS

PHIL CAMPBELL, ALABAMA

MCKEE and ASSOCIATES ARCHITECTS, INC.

837 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



08.12.2022

SHEET TITLE : PLBG. SCHEDULES AND DETAILS

MCKEE JOB # : 21.269

PSCA # : XXX

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 08.12.2022

REVISED DATE :

REVISED DATE :

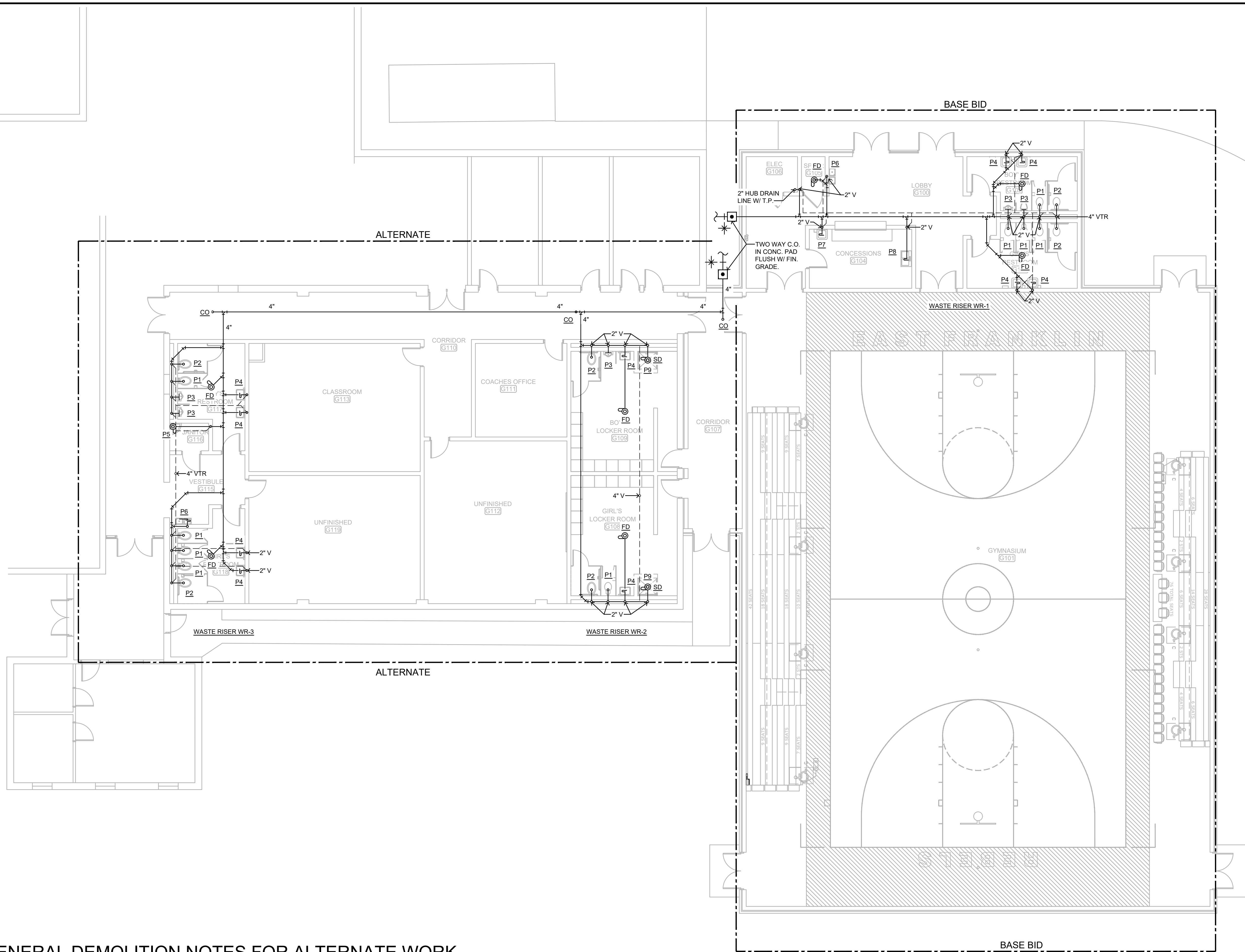
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SHEET NO. :

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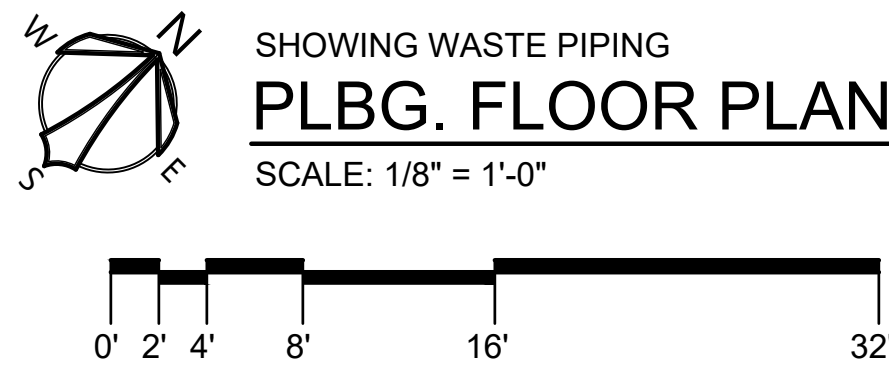
ZGOUVAS, EIRING & ASSOCIATES CONSULTING ENGINEERS 800 S McDONOUGH STREET MONTGOMERY, AL. 36104 334.283.4406 ZEAPROJECT NUMBER 22-189





**GENERAL DEMOLITION NOTES FOR ALTERNATE WORK**

- 1.) THE CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL INCLUSIVE. IT IS CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA PRIOR TO BID AND TO FULFILL THE INTENT OF THE DESIGN INDICATED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL VERIFY ALL JOB CONDITIONS AND ALLOW FOR REQUIRED MODIFICATIONS TO ACCOMPLISH THE WORK. CONTRACTOR SHALL COORDINATE ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES WITH HVAC AND PLUMBING DRAWINGS AND NOTES. PATCH OR REBUILD ANY AREAS TO REMAIN THAT HAVE BEEN DAMAGED OR DISTURBED BY HVAC AND PLUMBING DEMOLITION. FINISH ALL PATCHED/REBUILT AREAS TO MATCH ADJACENT SURFACES AND AS SPECIFIED ELSEWHERE WITHIN THE CONTRACT DOCUMENTS.
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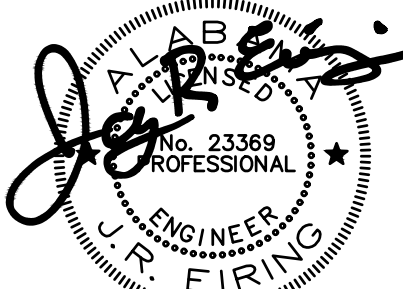


SHOWING WASTE PIPING  
**PLBG. FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR  
FRANKLIN COUNTY SCHOOLS**  
PHIL CAMPBELL, ALABAMA

**McKEE and ASSOCIATES**  
ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



08.12.2022

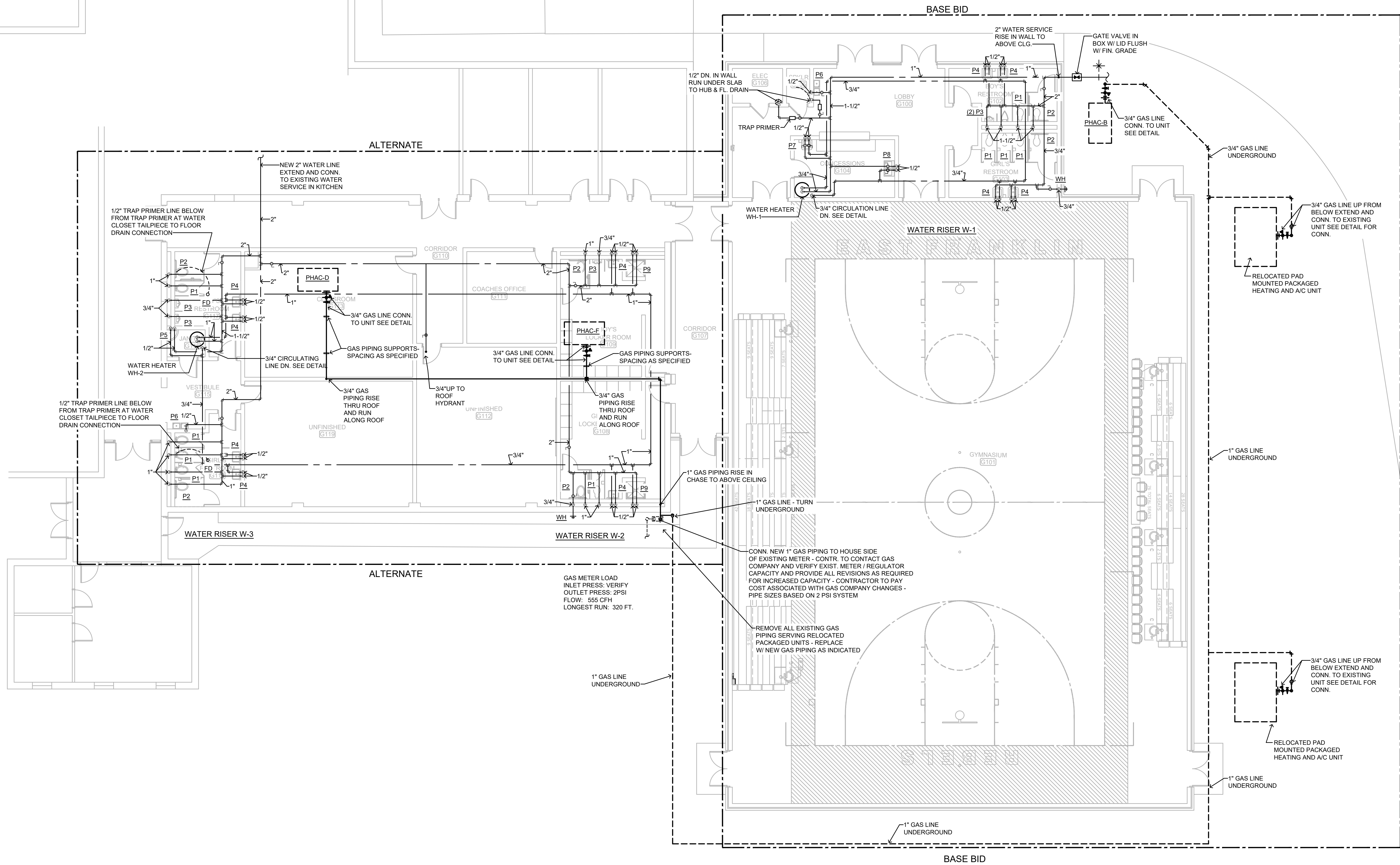
SHEET TITLE :	PLBG. SCHEDULES AND DETAILS
MCKEE JOB # :	21.269
PSCA # :	XXX
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	08.12.2022
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SHEET NO. :

**P2**

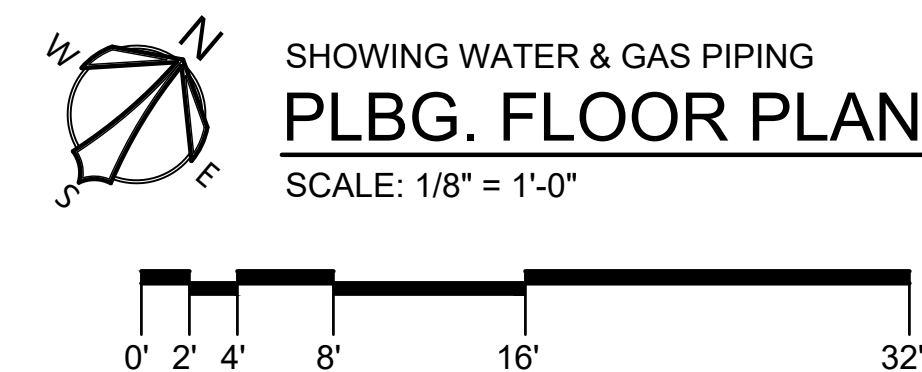
**ZGOUVAS, EIRING & ASSOCIATES**  
CONSULTING ENGINEERS  
800 S McDONOUGH STREET  
MONTGOMERY, AL. 36104  
334.263.4406  
ZEA PROJECT NUMBER 22-189

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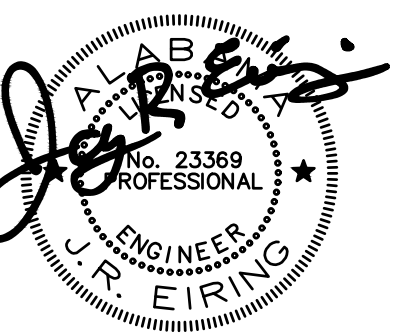
**ZGOUVAS, EIRING & ASSOCIATES**  
CONSULTING ENGINEERS  
800 S McDONOUGH STREET  
MONTGOMERY, AL. 36104  
334.263.4406  
ZEA PROJECT NUMBER 22-189

## GYM ADDITION TO EAST FRANKLIN JUNIOR HIGH SCHOOL FOR FRANKLIN COUNTY SCHOOLS

PHIL CAMPBELL, ALABAMA

**McKEE and ASSOCIATES**  
ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



08.12.2022

SHEET TITLE : PLBG. FLOOR PLAN - SHOWING WATER & GAS PIPING

MCKEE JOB # : 21.269

PSCA # : XXX

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 08.12.2022

REVISED DATE :

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SHEET NO. :

**P3**



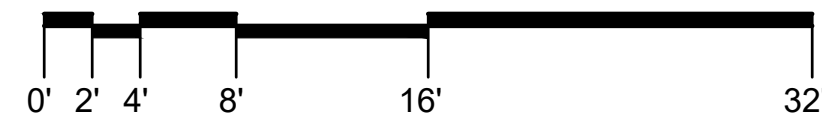
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## HVAC FLOOR PLAN

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



**ZGOUVAS, EIRING & ASSOCIATES**  
CONSULTING ENGINEERS  
800 S McDONOUGH STREET  
MONTGOMERY, AL 36104  
334.283.4406  
ZEA PROJECT NUMBER 22-189

SHEET TITLE : HVAC FLOOR PLAN

MCKEE JOB # : 21.269

PSCA # : XXX

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

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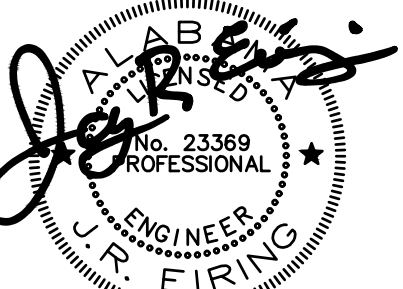
GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL

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ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



08.12.2022

PACKAGED HEATING AND AIR CONDITIONING UNIT SCHEDULE (NATURAL GAS HEAT)

UNIT NUMBER	TOTAL AIR CFM	OUTSIDE AIR CFM			APPROXIMATE EXTERNAL STATIC PRESS. IN. OF WATER	FAN MOTOR				MINIMUM TOTAL COOLING CAPACITY AT A.R.I. CONDS. BTU/HR	MINIMUM CAPACITY REDUCTION - PERCENT OF TOTAL LOAD	MINIMUM EFFICIENCY AT A.R.I. CONDITIONS	LOW AMBIENT HEAD PRESS. CONTROL TO °F	MIN. TOTAL HEATING CAPACITY INPUT-MBH	COMPRESSOR MOTOR(S)				CONDENSER FAN(S)				APPROX. MCA	APPROX. MOP	REMARKS	
		MINIMUM SETPOINT	MAXIMUM SETPOINT	MAXIMUM SETPOINT (ECONOMIZER)		APPROX. H.P.	VOLTS	PHASE	HERTZ						APPROX. F.L.A.	VOLTS	PHASE	HERTZ	APPROX. F.L.A.	VOLTS	PHASE	HERTZ				
PHAC-A	OMITTED FROM PROJECT																									
PHAC-B	2000	340	340	2000	0.84	1.0	208	3	60	60,000	100 - 0	14.0	45	75.0	17.0	208	3	60	3.5	208	1	60	30.0	45.0		
PHAC-C	OMITTED FROM PROJECT																									
PHAC-D	1600	425	425	N/A	0.64	1.0	208	3	60	48,000	100 - 0	14.0	45	50.0	15.0	208	3	60	3.5	208	1	60	28.0	40.0		
PHAC-E	OMITTED FROM PROJECT																									
PHAC-F	2000	300	300	2000	0.83	1.0	208	3	60	60,000	100 - 0	14.0	45	75.0	17.0	208	3	60	3.5	208	1	60	30.0	45.0		

- NOTES:
- ALL UNITS SHALL BE FACTORY WIRED FOR SINGLE POINT POWER CONNECTIONS.
  - SEER RATINGS BASED ON ARI 210/240
  - EER RATINGS BASED ON ARI 340/360
  - EACH UNIT SHALL BE PROVIDED WITH A REFRIGERANT HOT GAS REHEAT COIL COMPLETE WITH REFRIGERANT PIPING, PIPE INSULATION, VALVES, CONTROLS, ETC. REQUIRED FOR HUMIDITY CONTROL - PROVIDE MANUAL REFRIGERANT ISOLATION VALVES FOR HOT GAS AND LIQUID LINES - FURNISH FOR APPROVAL DETAILED REFRIGERANT PIPING CONN. DIAGRAM AND CONTROL WIRING DIAGRAM - PRIOR TO SUBMITTING THE DIAGRAM OBTAIN EQUIPMENT MANUFACTURER'S APPROVAL. SEE SPECS FOR ADDITIONAL REQUIREMENTS
  - HEATER SHALL BE HAVE A MINIMUM OF 2-1 TURN DOWN.

FANS SCHEDULE

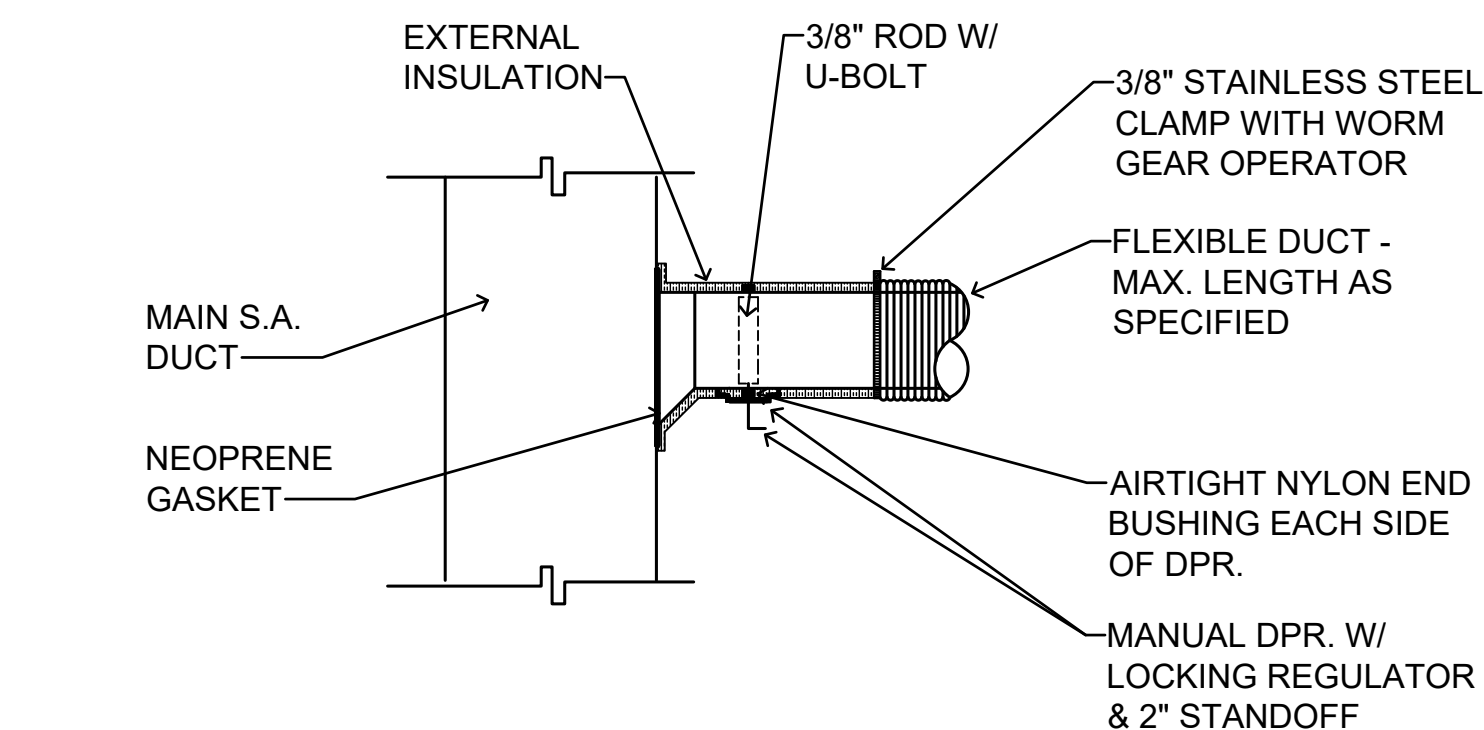
FAN TYPE	FAN CFM	DESCRIPTION	MINIMUM FAN SIZE INCHES	APPROX. FAN WALL/ ROOF OPENING -INCHES	MAXIMUM FAN SPEED RPM	APPROX. EXT. STATIC PRESS. IN. WTR. COL.	FAN MOTOR				CONTROL INTERLOCK	REMARKS
							MIN. H.P./ WATTS	VOLTS	PH.	HERTZ		
EF-A	280	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN	10.0	N/A	1050	0.30	245W	120	1	60	LIGHTING CIRCUIT	
EF-B	130	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN	8.0	N/A	1050	0.30	80W	120	1	60	LIGHTING CIRCUIT	
EF-C	650	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN	12.0	N/A	1050	0.30	280W	120	1	60	LIGHTING CIRCUIT	
EF-D	70	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN	6.0	N/A	1050	0.30	50W	120	1	60	LIGHTING CIRCUIT	

ELECTRIC UNIT HEATER SCHEDULE

HEATER TYPE	DESCRIPTION	AIR QUANTITY- CFM	MINIMUM CAPACITY- KW	FAN HP	FAN MAX. RPM	POWER			NUMBER OF CONTROL STEPS	REMARKS
						VOLTS	PHASE	HERTZ		
EUH-A	WALL MTD, PROPELLER TYPE, HORIZONTAL DISCHARGE	400	3.3	1/125	1550	208	3	60	ONE	

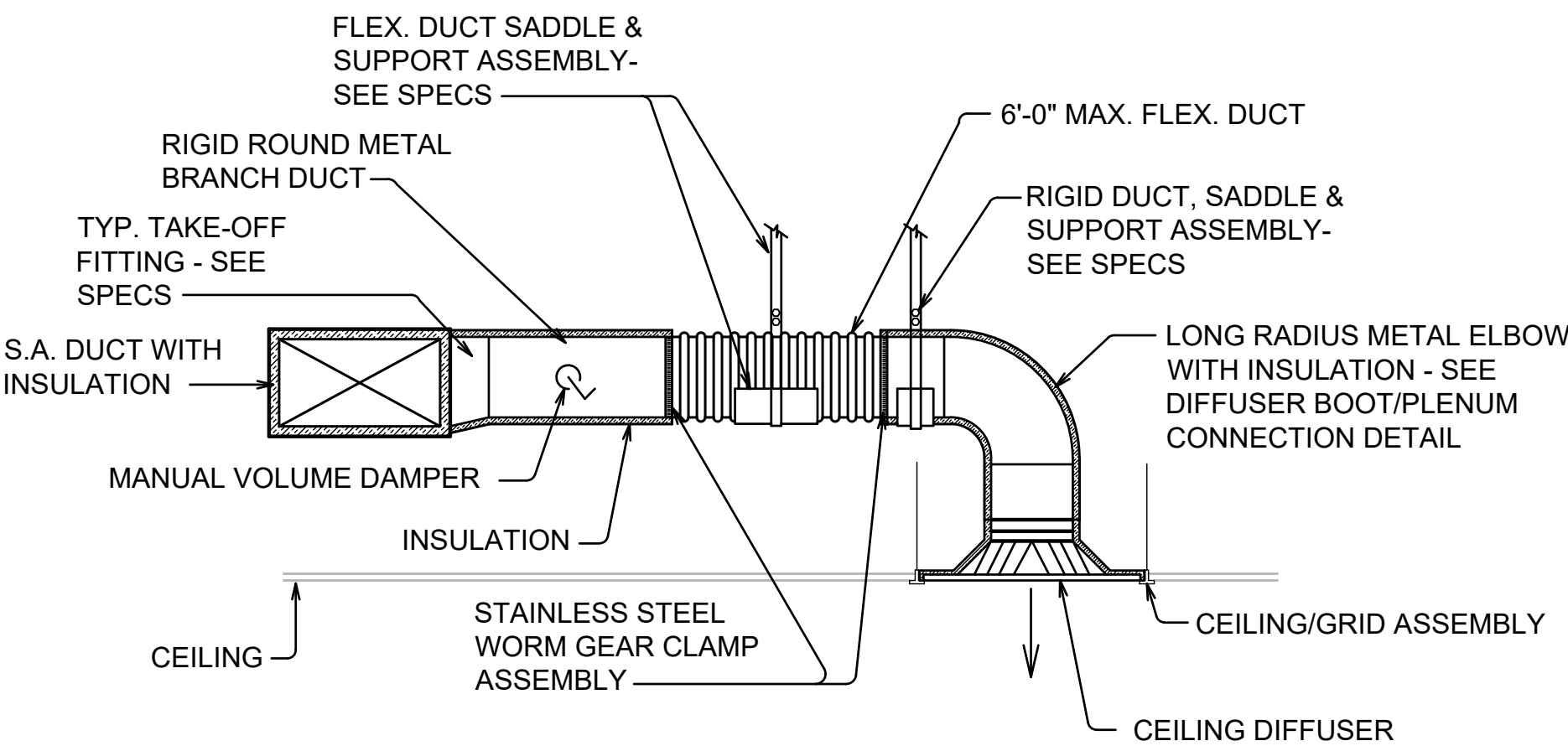
WALL MOUNTED DUCTLESS HEAT PUMP UNIT SCHEDULE

UNIT TYPE _____	DHP-A
MINIMUM TOTAL COOLING CAP. AT A.R.I. CONDITIONS - BTU/HR _____	9,000
MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 70°F INDOOR & 17°F AMBIENT - BTU/HR _____	6,700
INDOOR FAN CFM AT HIGH SPEED _____	230
INDOOR UNIT MCA - POWER _____	1.5A - 208V, 1 PH., 60 HZ.
OUTDOOR UNIT MCA (COMPRESSOR AND COND. FAN) - POWER _____	9.0A - 208V, 1 PH., 60 HZ.
OUTDOOR UNIT MOP (COMPRESSOR AND COND. FAN) - POWER _____	15.0A - 208V., - 1PH., 60HZ.
MINIMUM HSPF AT AHRI 210/240 CONDS. _____	10.0
MINIMUM S.E.E.R. AT AHRI 210/240 CONDS _____	18.0
BASIS OF DESIGN _____	MITSUBISHI MSZ / MUZ



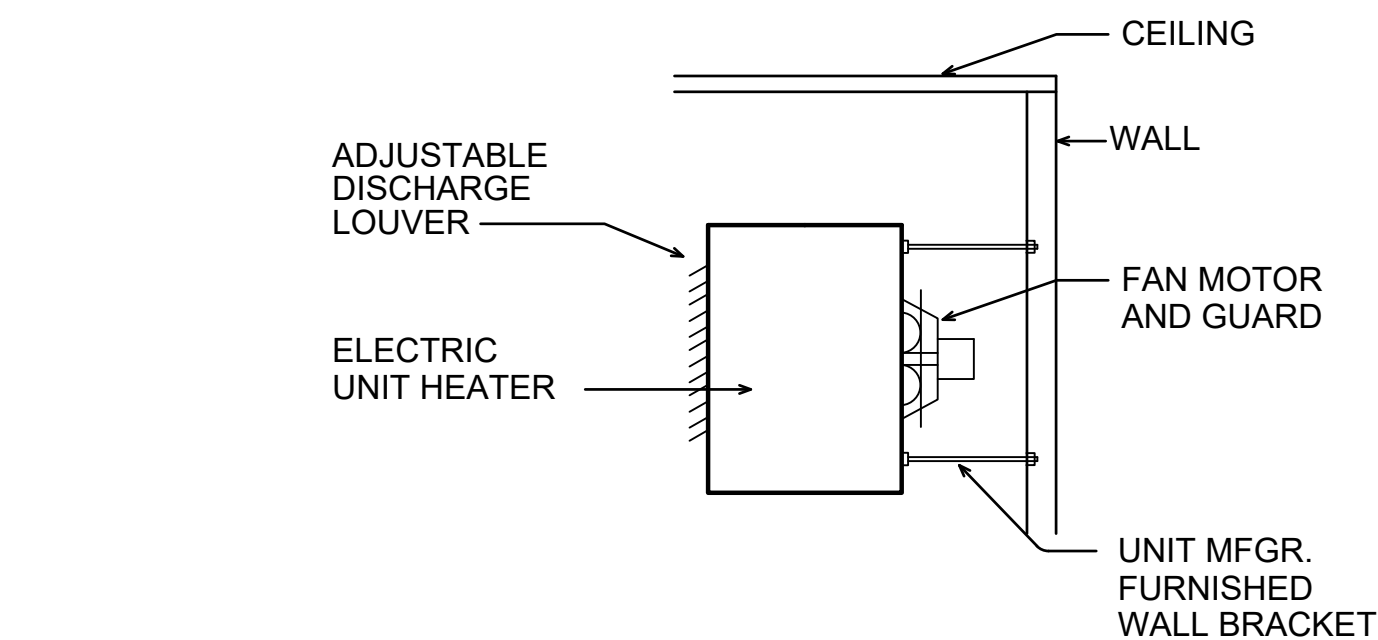
ROUND BRANCH DUCT TAKE-OFF DETAIL

NOT TO SCALE  
RECTANGULAR RUNOUTS SAME EXCEPT WITH RECTANGULAR DUCT



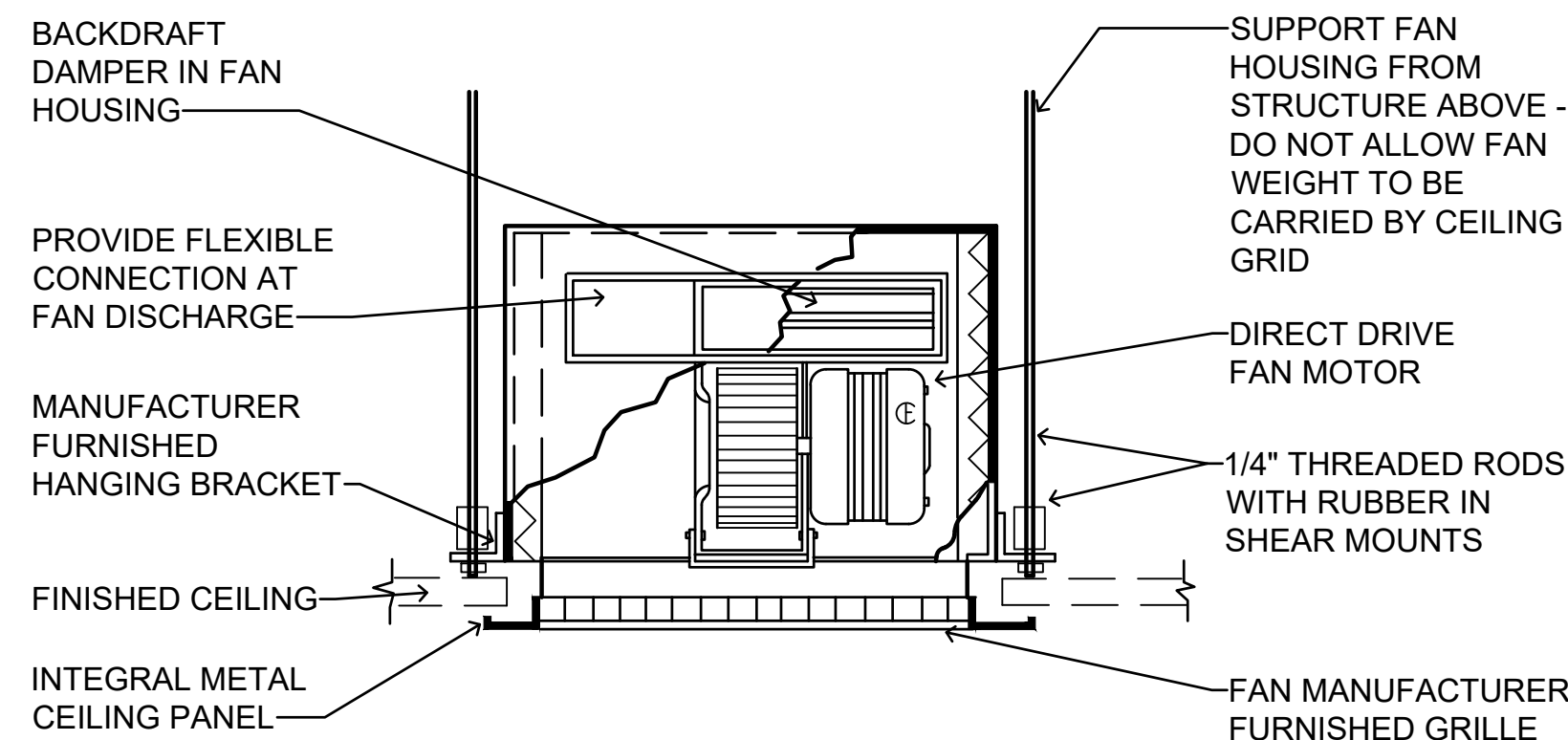
TYPICAL DIFFUSER RUN-OUT CONN.

NOT TO SCALE



WALL MOUNTED ELECTRIC UNIT HEATER DETAIL

NOT TO SCALE



CEILING MOUNTED EXHAUST FAN CONN. DETAIL

NO SCALE

CEILING DIFFUSER SCHEDULE

SYMBOL	CFM RANGE	NECK SIZE INCHES	FACE SIZE INCHES	BRANCH DUCT SIZE	MAXIMUM NC VALUE	BASIS OF DESIGN
①	10 - 95	6" ROUND	24x24	6"Ø	20	TITUS TMS
②	100 - 180	8" ROUND	24x24	8"Ø	20	TITUS TMS
③	185 - 270	10" ROUND	24x24	10"Ø	20	TITUS TMS
④	275 - 400	12" ROUND	24x24	12"Ø	20	TITUS TMS
⑤	405 - 530	14" ROUND	24x24	14"Ø	20	TITUS TMS
⑥	535 - 625	15" ROUND	24x24	15"Ø	20	TITUS TMS

NOTES

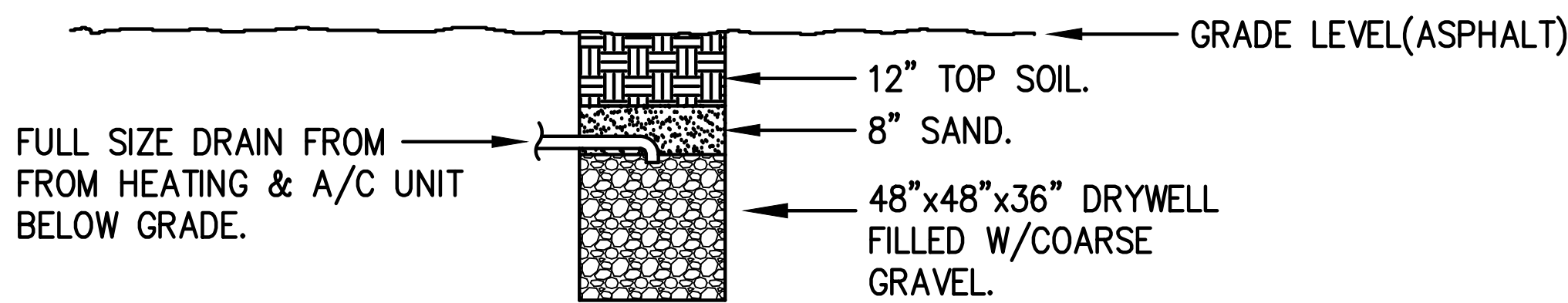
- RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS
- CONTRACTOR SHALL INSULATE THE EXTERIOR (BACK SIDE OF DIFFUSER PANEL) WITH 1" THICKNESS EXTERNAL DUCT INSULATION WITH CHARACTERISTICS SPECIFIED FOR EXTERNAL DUCT INSULATION.

EXHAUST/RETURN AIR REGISTER SCHEDULE

SYMBOL		CFM RANGE	SIZE - IN. x IN.	DESCRIPTION	MAXIMUM NC RATING	BRANCH DUCT SIZE
EXH.	R.A.					
1	1	0 - 140	9x9	CEILING EXH. OR RETURN REG.	20	9x6
2	2	141 - 240	12x12	CEILING EXH. OR RETURN REG.	20	12x7
3	3	241 - 340	14x14	CEILING EXH. OR RETURN REG.	20	14x7
4	4	341 - 460	16x16	CEILING EXH. OR RETURN REG.	20	16x9
5	5	461 - 600	18x18	CEILING EXH. OR RETURN REG.	20	18x10
6	6	601 - 760	20x20	CEILING EXH. OR RETURN REG.	20	20x12
7	7	761 - 940	24x24	CEILING EXH. OR RETURN REG.	20	24x12
8	8	941 - 1200	30x24	CEILING EXH. OR RETURN REG.	20	24x14
9	9	1201 - 1400	36x24	CEILING EXH. OR RETURN REG.	20	28x14

NOTES

- RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS.
- ⑧ & ⑨ SHALL BE IN INTEGRAL 48x24 METAL CEILING PANEL AS SPECIFIED. ALL OTHERS SHALL BE IN INTEGRAL 24x24 METAL CEILING PANEL AS SPECIFIED.



DRYWELL DETAIL

NO SCALE



SHEET TITLE : HVAC SCHEDULES, AND DETAILS

MCKEE JOB # : 21.269

PSCA # : XXX

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

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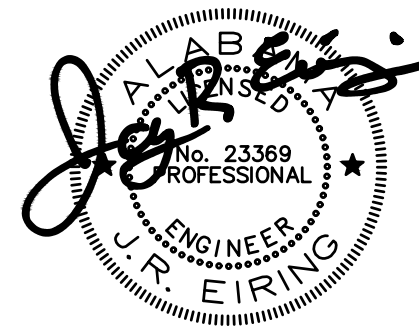
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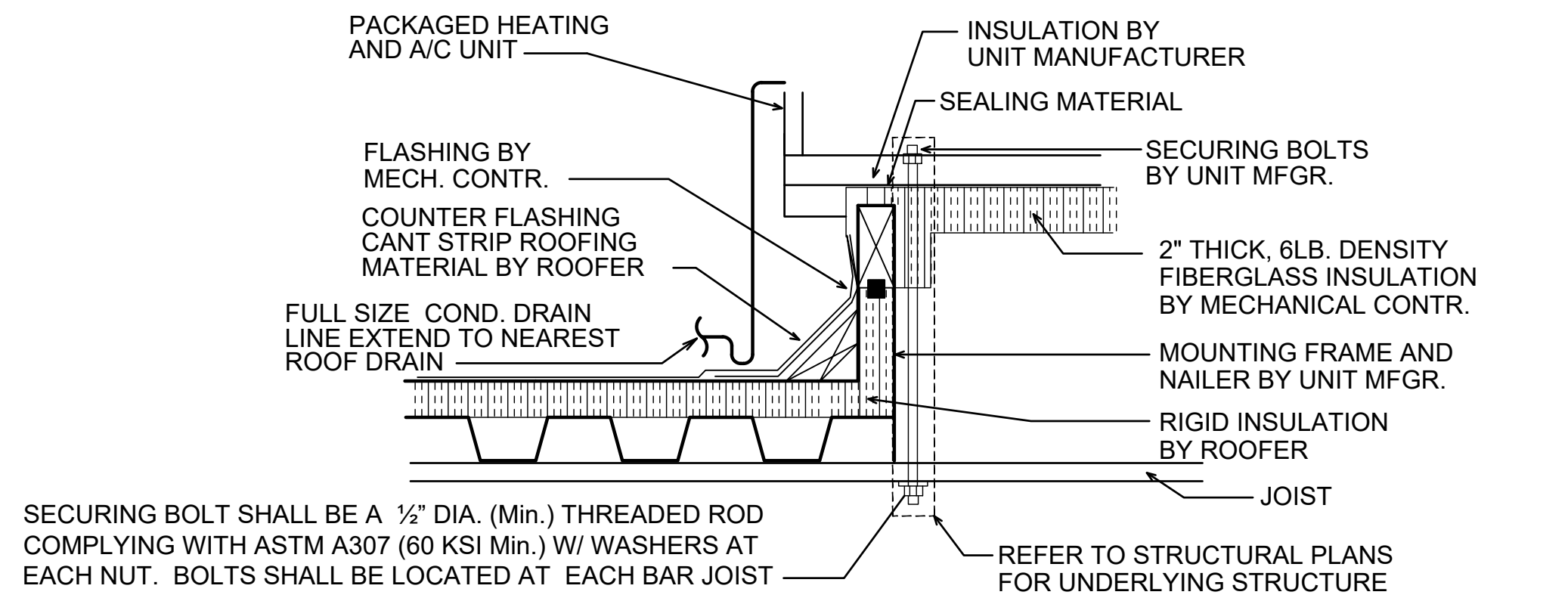
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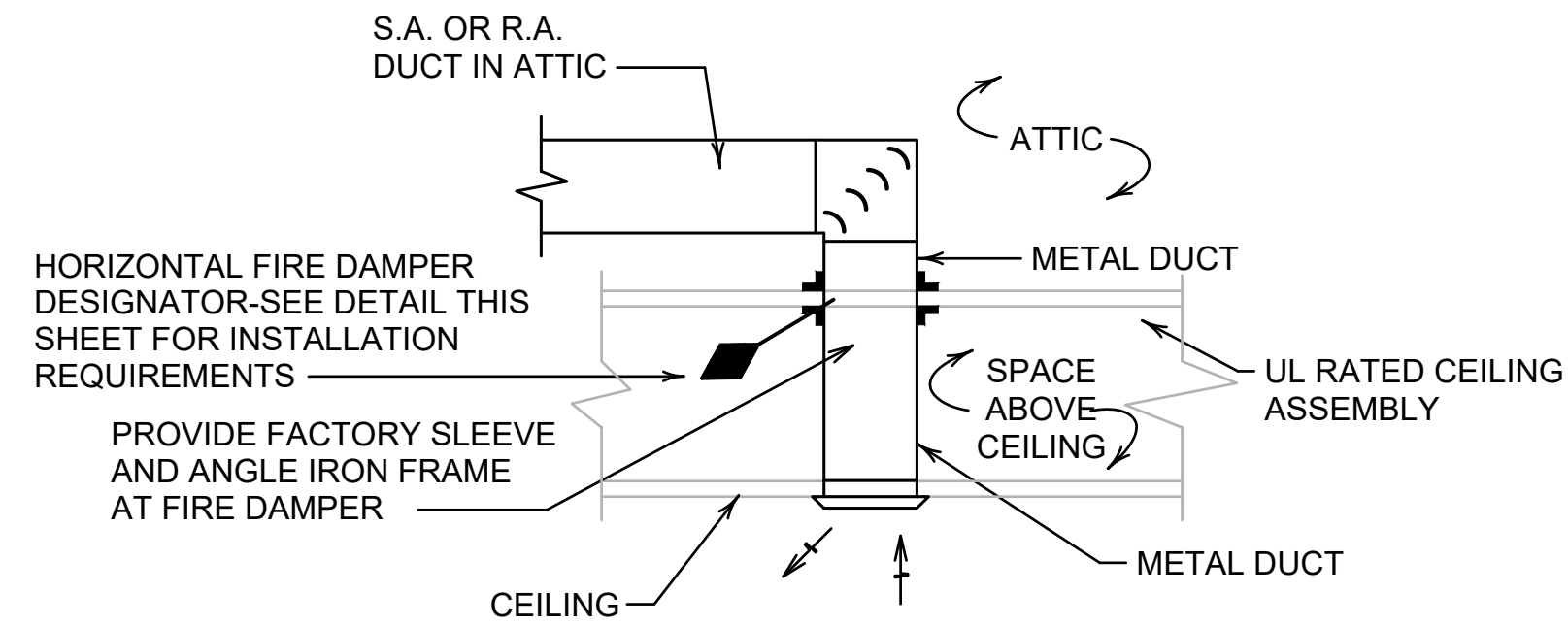
## PACKAGED ROOFTOP HEATING & AIR CONDITIONING

### UNIT CONNECTION DETAIL

NOT TO SCALE

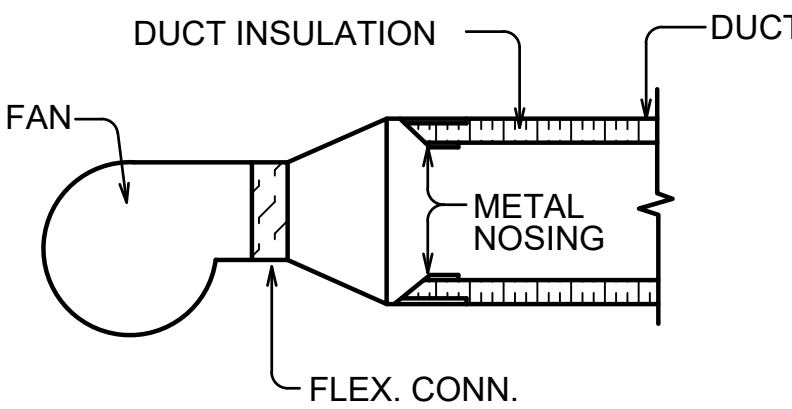
#### NOTES:

- 1.) SEE PLANS FOR SMOKE DETECTOR LOCATIONS
- 2.) PROVIDE SMOKE DETECTORS FOR PHAC-B, PHAC-C, PHAC-D UNITS & PHAC F
- 3.) SMOKE DETECTORS TO BE LOCATED IN UNIT CABINET FOR PHAC-C, PHAC-D AND PHAC-F



## TYP. LOCATION OF HORIZONTAL FIRE DAMPERS AT PLENUM PENETRATION OF DUCT FROM ATTIC

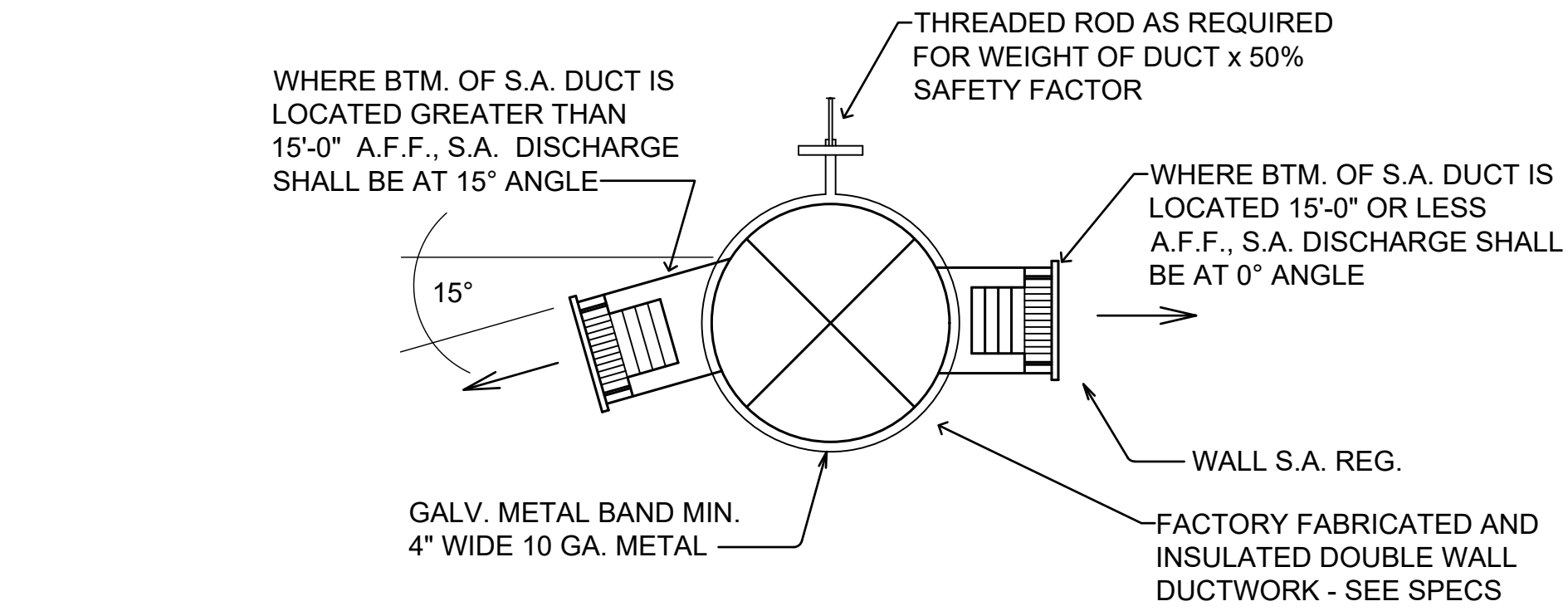
NOT TO SCALE



## TYPICAL DUCT LINER INTERRUPTION DETAIL

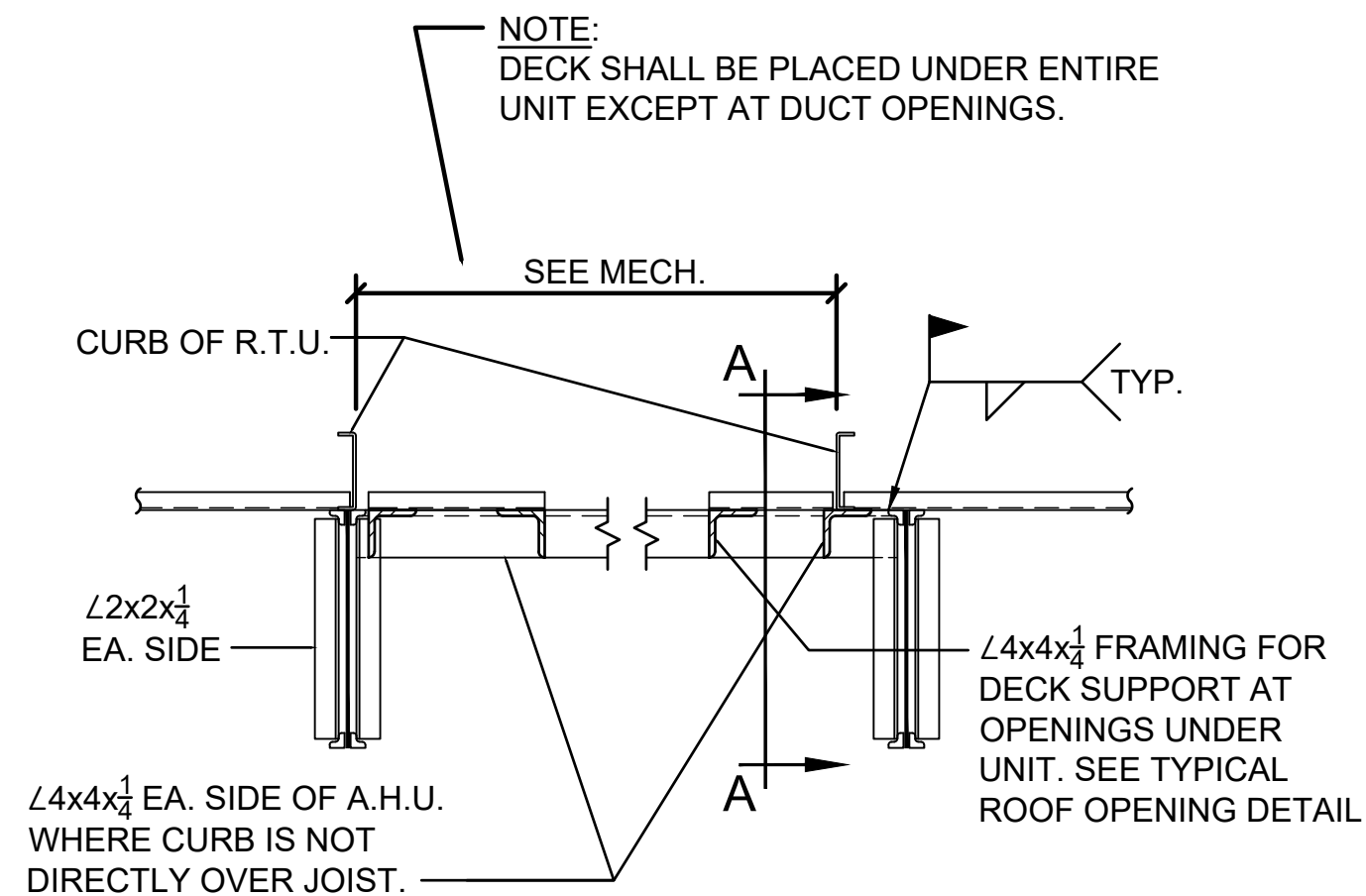
NOT TO SCALE

NOTE !! THIS DETAIL APPLIES TO FIRE DAMPER INSTALLATION, WHERE DUCTS CONNECT TO FAN SECTION, ANYWHERE BARE DUCT LINER PROTRUDES INTO THE AIRSTREAM, ANY POINT WHERE LINED DUCT IS PRECEDED BY UNLINED DUCT, BARE DUCT INSULATION EDGES THAT ARE EXPOSED IN THE RETURN AIR PLENUM, ETC. - SEE SPECS FOR ADDITIONAL REQUIREMENTS

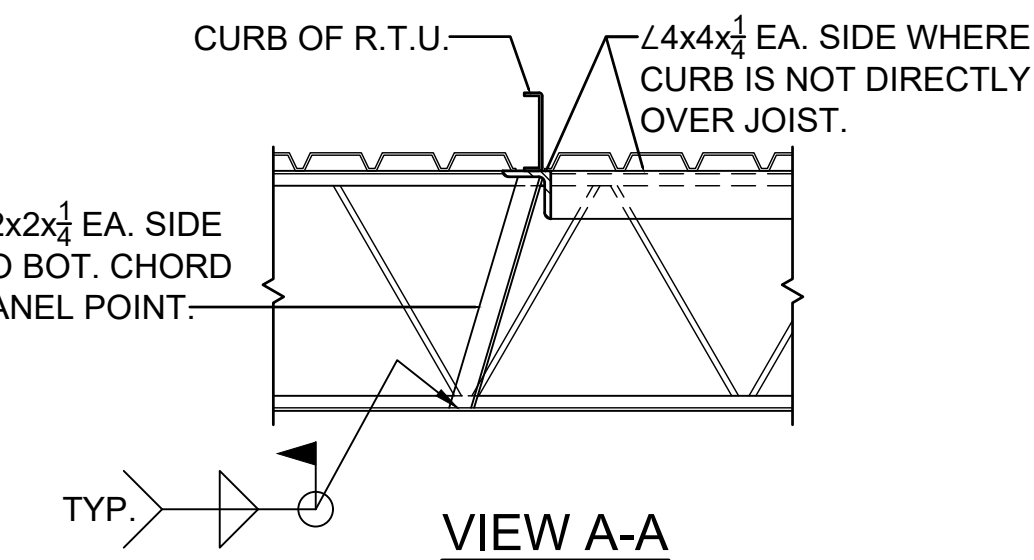


## TYP. EXPOSED ROUND DUCT / REGISTER MOUNTING DETAIL

NOT TO SCALE

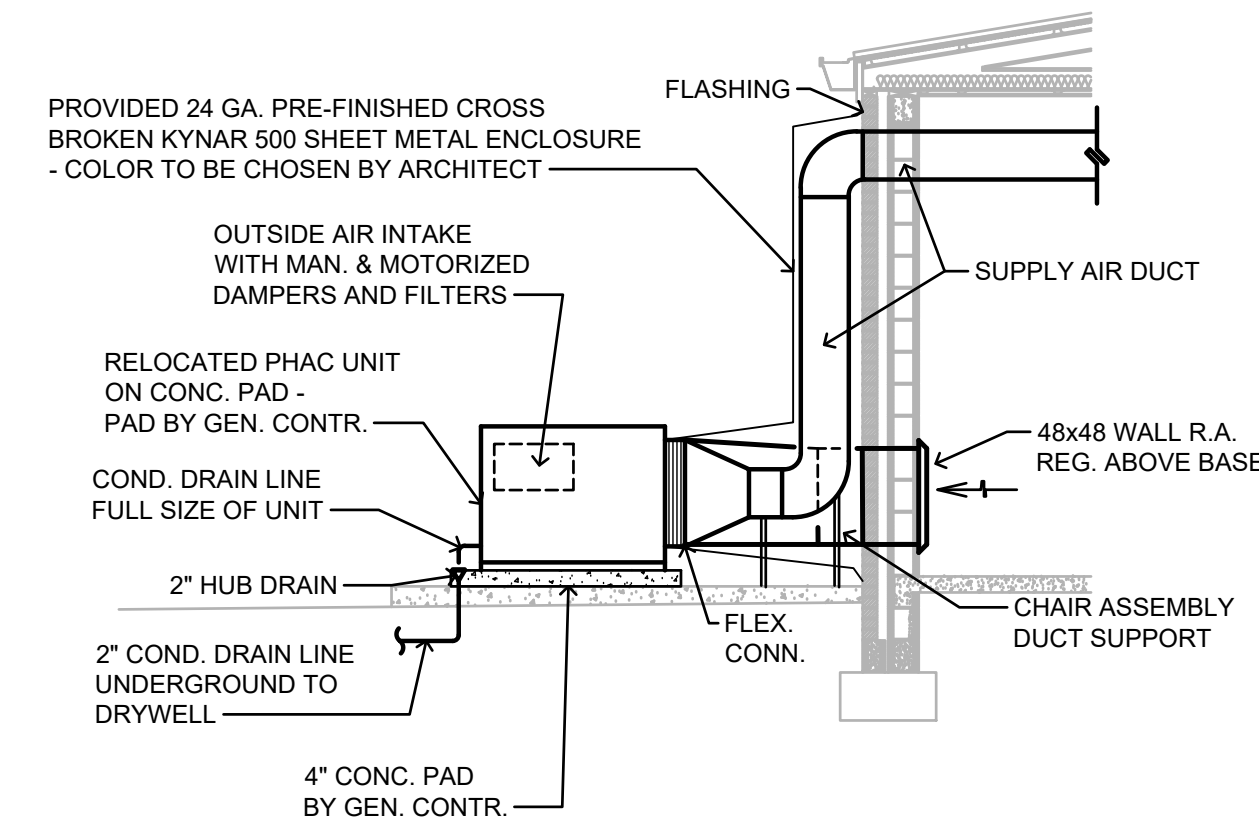


### TYPICAL RTU CURB DETAIL



#### NOTE:

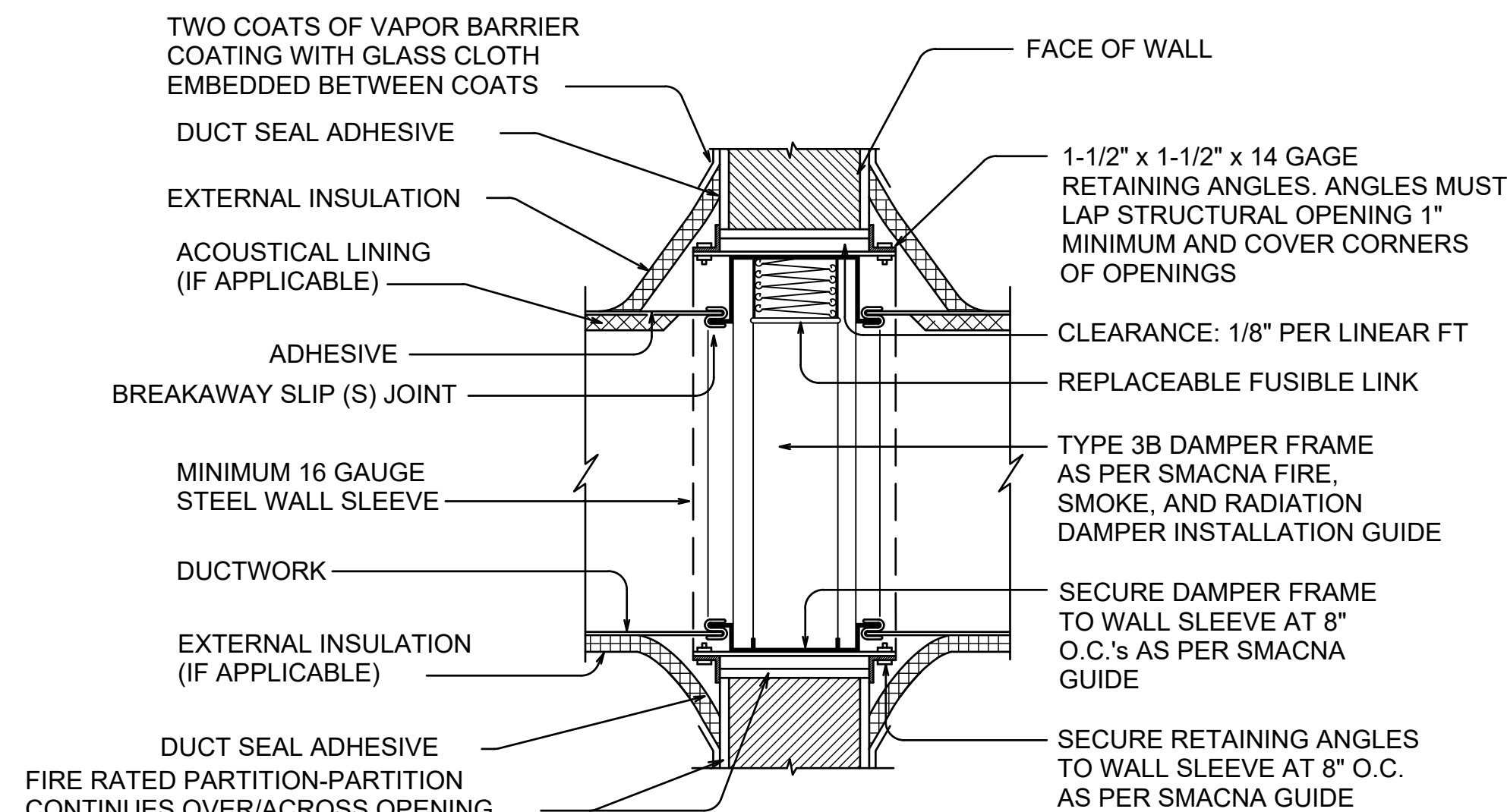
DETAIL ABOVE IS SHOWN TO INDICATE INTENT ON HOW THE ROOFTOP UNITS ARE TO BE ANCHORED - REQUIREMENTS ABOVE ARE BY THE GENERAL CONTRACTOR - REFER TO STRUCTURAL PLANS FOR SPECIFIC REQUIREMENTS



## SECTION AT RELOCATED PACKAGED UNITS

NOT TO SCALE

PHAC-B UNIT CONNECTIONS SIMILAR



## WALL MOUNTED FIRE DAMPER DETAIL

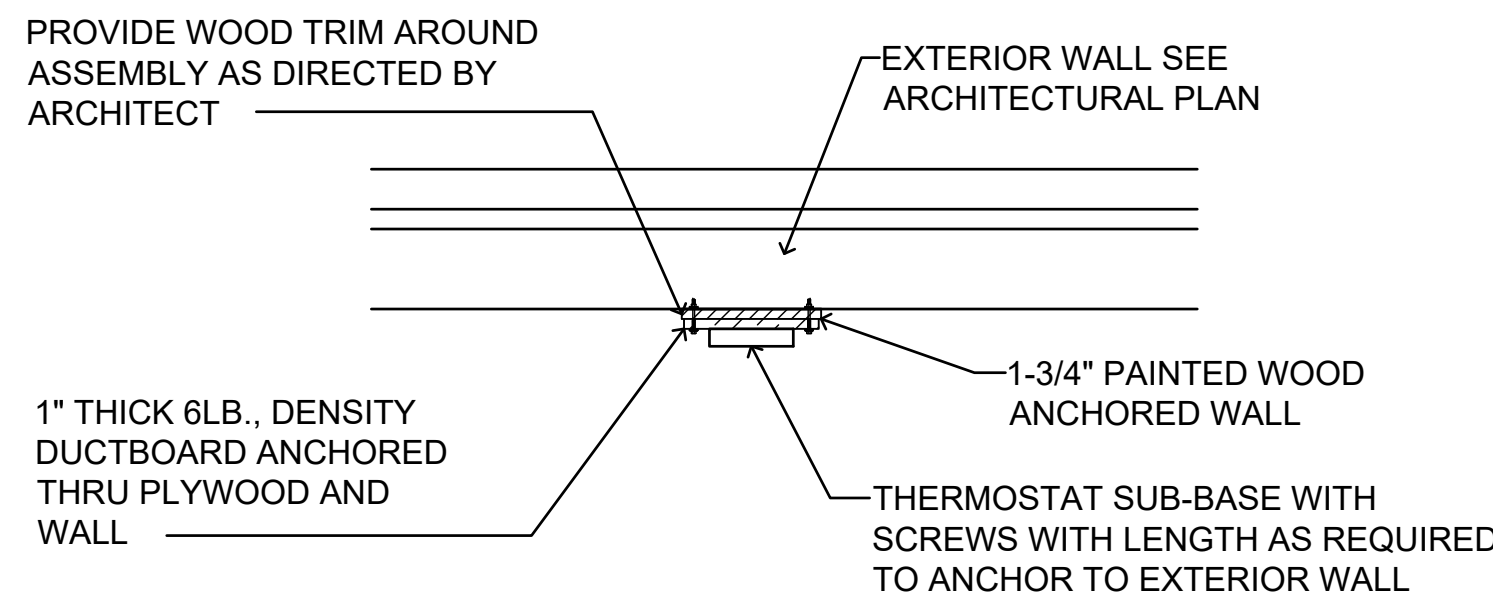
NOT TO SCALE

#### NOTES:

- 1.) PROVIDE FIRE DAMPERS IN ALL DUCTS PENETRATING FIRE RATED WALLS, CEILINGS, FLOORS AND ANY TYPE OF RATED ASSEMBLY - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATINGS.
- 2.) VERTICAL ACTION INSTALLATION SHOWN. HORIZONTAL ACTION DAMPER INSTALLATION SIMILAR
- 3.) PROVIDE ACCESS PANEL/DOOR IN DUCT AND INACCESSIBLE (HARD) CEILINGS FOR EACH FIRE DAMPER
- 4.) DO NOT EXTERNALLY INSULATE THE FIRE DAMPER ANGLES UNTIL THE ENGINEER HAS INSPECTED THE FIRE DAMPER INSTALLATION

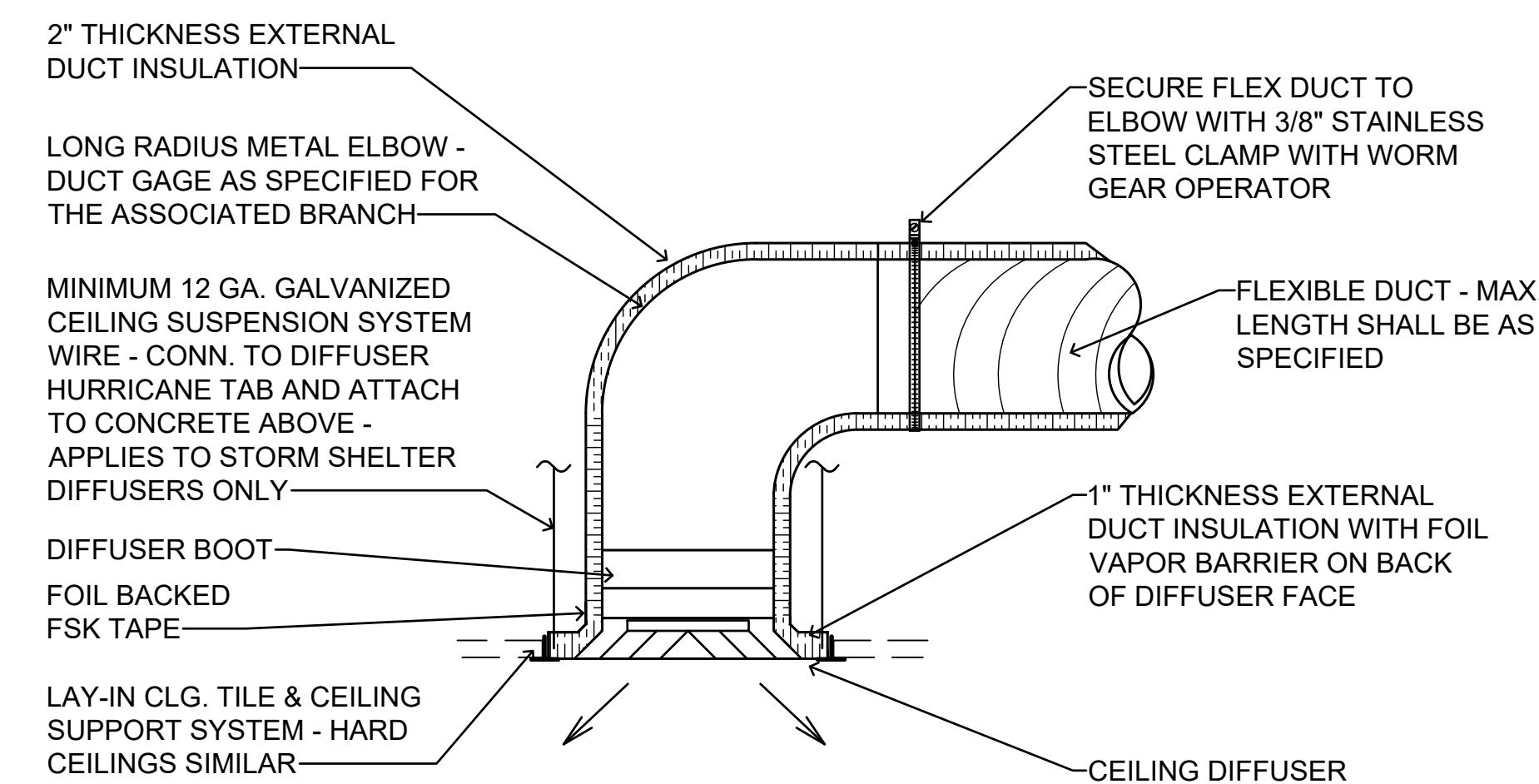
#### SYMBOLS

- DENOTES VERTICAL ACTION FIRE DAMPER
- ◆ DENOTES HORIZONTAL ACTION FIRE DAMPER



## THERMOSTAT MOUNTING DETAIL ON EXTERIOR WALL

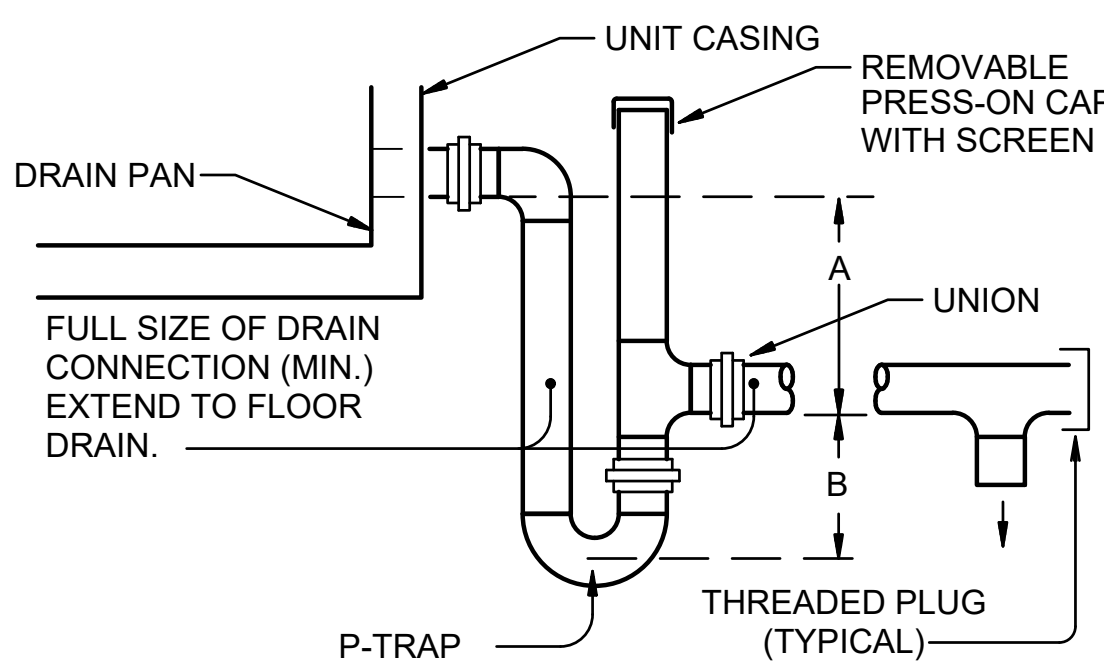
NOT TO SCALE



## DIFFUSER BOOT/PLENUM CONNECTION DETAIL

NOT TO SCALE

1. DIFFUSERS PANELS SHALL BE INSULATED PRIOR TO INSTALLING INTO THE CEILING GRID
2. DO NOT COVER STAINLESS STEEL BAND AND WORM GEAR OPERATOR UNTIL ENGINEER HAS INSPECTED THE INSTALLATION.



UNIT TYPE	A	B
DRAW-THRU	2" PLUS "X"	"X" PLUS 1"
BLOW-THRU	1" MINIMUM	2X PLUS 1"

WHERE "X" = AHU STATIC PRESSURE

## TYPICAL AIR HANDLING UNIT CONDENSATE DRAIN DETAIL

NOT TO SCALE

#### NOTES:

1. CONTRACTOR SHALL PROVIDE DRAIN AS REQUIRED BY THE AIR HANDLING UNIT MANUFACTURER. IN ABSENCE OF THOSE REQUIREMENTS, CONTRACTOR SHALL PROVIDE DRAIN AS DETAILED ABOVE
2. CONTRACTOR SHALL RAISE AIR HANDLING UNIT AS REQUIRED TO ALLOW FOR INSTALLATION OF THE DRAIN AS DETAILED ABOVE
3. PROVIDE AN ELECTRIC SWITCH IN THE CONDENSATE DRAIN LINE, THAT CONFORMS TO UL 508, TO SHUT DOWN THE UNIT AND ALARM TO THE BUILDING ENERGY MANAGEMENT SYSTEM OPERATOR CONSOLE (IF APPLICABLE) SHOULD THE LINE BECOME OBSTRUCTED

GYM ADDITION  
TO  
FOR  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FRANKLIN COUNTY SCHOOLS  
PHIL CAMPBELL, ALABAMA

MCKEE and ASSOCIATES  
ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

08.12.2022

SHEET TITLE : HVAC DETAILS

MCKEE JOB # : 21.269

PSCA # : XXX

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 08.12.2022

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. :

M3

ZGOUVAS, EIRING & ASSOCIATES  
CONSULTING ENGINEERS  
800 S McDONOUGH STREET  
MONTGOMERY, AL. 36104  
334.283.4406  
ZEA PROJECT NUMBER 22-189

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PHAC-B OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
CONCESSIONS G104	175	25	5	0.06	11	5	25	45	0.8			0.7	123	2400	0.01875
LOBBY G100	730	30	22	0.06	44	5	110	192.5	0.8				0	450	0.427778
TOILETS G102/103										8	70		560	300	0
Total			27		11		135								
Cumulative CFM															
Max "Zp"	0.427778						237.5								
"Ev"	0.7														
"Vou" Total OSA EQ 4-6	237.5														
Total Building Occupancy	5														
Zone Occupancy	5														
"D" from EQ 4-7	1														
"Vot" Equation 4-8	339.2857														
TOTAL OSA	339.2857														

PHAC-D OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
RESOURCE RM. G113	640	35	23	0.12	77	10	230	307	1				0	1160	0.264655
BOYS TOILET G117										4	70		280	150	0
CORRIDOR G110	415	0	0	0.06	25	0	0	31.25	0.8				0	230	0.13587
Total					102		230								
Cumulative CFM															
Max "Zp"	0.264655						338.25								
"Ev"	0.8														
"Vou" Total OSA EQ 4-6	338.25														
Total Building Occupancy	23														
Zone Occupancy	23														
"D" from EQ 4-7	1														
"Vot" Equation 4-8	422.8125														
TOTAL OSA	422.8125														

OUTDOOR AIR AND EXHAUST CALCULATIONS															
GYMNASIUM G101	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
PLAYING SURFACE	4200	0	0	0.3	1260	0	0	1575	0.8				0	6000	0.2625
SPECTOR AREA	1650	150	248	0.06	99	7.5	1860	2448.75	0.8				0	6000	0.408125
Total			248		1260		1860								
Cumulative CFM															
							4023.75								

EXISTING RELOCATED UNITS  
ADJUST EXISTING MANUAL OUTSIDE AIR DAMPERS ON EACH PACKAGED UNIT TO PROVIDE AN  
ADDITIONAL 325 CFM OF OUTSIDE AIR

PHAC-C OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
CLASSROOM G119	640	35	23	0.12	77	10	230	307	1				0	1100	0.279091
GIRLS TOILET G118										4	70		280	150	0
CORRIDOR G114	415	0	0	0.06	25	0	0	31.25	0.8				0	250	0.125
VESTIBULE G115	130													100	0
Total					102		230								
Cumulative CFM															
Max "Zp"	0.279091						338.25								
"Ev"	0.8														
"Vou" Total OSA EQ 4-6	338.25														
Total Building Occupancy	23														
Zone Occupancy	23														
"D" from EQ 4-7	1														
"Vot" Equation 4-8	422.8125														
TOTAL OSA	422.8125														

PHAC-E OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
CLASSROOM G112	650	35	23	0.12	78	10	230	308	1				0	1200	0.256667
Total					78		230								
Cumulative CFM															
							308								

PHAC-F OUTDOOR AIR AND EXHAUST CALCULATIONS															
	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5
BOYS LOCKER RM. G108	370											0.5	185	650	0
COACH OFFICE G111	250	5	2	0.06	15	5	10	25	1				0	200	0.125
CORRIDOR G107	640	0	0	0.06	39	0	0	39	1				0	465	0.083871
GIRLS LOCKERS RMS. G109	370											0.5	185	650	0
Total					54		10								
Cumulative CFM															
Max "Zp"	0.125						64								
"Ev"	1														
"Vou" Total OSA EQ 4-6	64														
Total Building Occupancy	23														
Zone Occupancy	2														
"D" from EQ 4-7	11.5														
"Vot" Equation 4-8	64														
TOTAL OSA	64														

GYM ADDITION

TO

EAST FRANKLIN JUNIOR HIGH SCHOOL

FOR

FRANKLIN COUNTY SCHOOLS

PHIL CAMPBELL, ALABAMA



08.12.2022

SHEET TITLE : HVAC O.A. CALCULATION

MCKEE JOB # : 21.269

PSCA # : XXX

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE: 08.12.2022

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M4





CEILING OUTLETS

- Ⓐ ② RECESSED 2'x4' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- Ⓐ ② RECESSED 2'x4' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- Ⓐ ② RECESSED 1'x4' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- Ⓐ ② RECESSED 1'x4' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- Ⓐ ② RECESSED 2'x2' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- Ⓐ ② RECESSED 2'x2' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- Ⓐ ② SURFACE OR PENDANT MOUNTED LINEAR STRIP FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- Ⓐ ② SURFACE OR PENDANT MOUNTED LINEAR STRIP FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- Ⓐ ② RECESSED OR SURFACE MOUNTED DOWNLIGHT, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- Ⓐ ② RECESSED OR SURFACE MOUNTED DOWNLIGHT, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- Ⓐ ② RECESSED OR SURFACE MOUNTED ROUND FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- Ⓐ ② RECESSED OR SURFACE MOUNTED ROUND FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- ⓧ CEILING MOUNTED SINGLE FACE EXIT SIGN, ARROWS AS SHOWN ON DRAWINGS.
- ⓧ CEILING MOUNTED DOUBLE FACE EXIT SIGN, ARROWS AS SHOWN ON DRAWINGS.
- ⓧ CEILING MOUNTED JUNCTION BOX.
- ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED.
- G ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED.
- V ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED. MOUNT IN 4"x4"x2" BOX. PROVIDE STEEL BARRIER BETWEEN CATV/RECEPTACLE AND CONNECTOR WITH BUSHING FOR CATV CABLE.
- ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED. UNLESS NOTED OTHERWISE UPPER RECEPTACLE NON CONTROLLED/LOWER RECEPTACLE CONTROLLED BY ROOM AUTOMATION SYSTEM. CONTROLLED RECEPTACLE SHALL BE MARKED WITH THE SYMBOL SHOWN IN NEC FIGURE 406.3(E) AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.
- AD ⓧ CEILING MOUNTED JUNCTION BOX FOR AUTOMATIC DOORS.
- ⓧ JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
- ⓧ JUNCTION BOX WITH FLEXIBLE CONNECTION TO FIXTURE.

WALL OUTLETS

- Ⓐ ② WALL MOUNTED FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- Ⓐ ② WALL MOUNTED FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- Ⓐ ② WALL MOUNTED SINGLE FACE EXIT SIGN, ARROWS AS SHOWN ON DRAWINGS.
- Ⓐ ② WALL MOUNTED FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- 2 Ⓐ ② WALL MOUNTED FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- ⓧ BATTERY OPERATED EMERGENCY FIXTURE.
- ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED.
- G ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED.
- W ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED, PROVIDE WEATHERPROOF WHILE IN USE BOX FOR RECEPTACLE.
- SB ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT AS DIRECTED FOR SMARTBOARD.
- ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER.
- G ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER.
- ⓧ QUADRAPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED.
- G ⓧ QUADRAPLEX RECEPTACLE - 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED.
- ⓧ QUADRAPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER.
- G ⓧ QUADRAPLEX RECEPTACLE - 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER.
- ⓧ QUADRAPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" A.F.F. TO CENTER LINE FOR DRINKING FOUNTAIN. PROVIDE GFI BREAKER IN PANELBOARD.
- TP ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED, TAMPER-PROOF.
- CM ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CONNECTION FOR COFFEE MAKER, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROVIDE GFI BREAKER IN PANELBOARD.
- MW ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CONNECTION FOR MICROWAVE, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROVIDE GFI BREAKER IN PANELBOARD.
- R ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CONNECTION FOR REFRIGERATOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROVIDE GFI BREAKER IN PANELBOARD.
- UCR ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CONNECTION FOR UNDER COUNTER REFRIGERATOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROVIDE GFI BREAKER IN PANELBOARD.
- V ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT IN 4"x4"x2" BOX. PROVIDE STEEL BARRIER BETWEEN CATV/RECEPTACLE AND CONNECTOR WITH BUSHING FOR CATV CABLE.
- ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UPPER RECEPTACLE NON CONTROLLED/LOWER RECEPTACLE CONTROLLED BY ROOM AUTOMATION SYSTEM. CONTROLLED RECEPTACLE SHALL BE MARKED WITH THE SYMBOL SHOWN IN NEC FIGURE 406.3(E) AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.
- G ⓧ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT ABOVE COUNTER UPPER RECEPTACLE NON CONTROLLED/LOWER RECEPTACLE CONTROLLED BY ROOM AUTOMATION SYSTEM. CONTROLLED RECEPTACLE SHALL BE MARKED WITH THE SYMBOL SHOWN IN NEC FIGURE 406.3(E) AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.
- ⓧ QUADRAPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UPPER RECEPTACLE NON CONTROLLED/LOWER RECEPTACLE CONTROLLED BY ROOM AUTOMATION SYSTEM. CONTROLLED RECEPTACLE SHALL BE MARKED WITH THE SYMBOL SHOWN IN NEC FIGURE 406.3(E) AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.
- ⓧ SINGLE RECEPTACLE - SEE DRAWINGS FOR NEMA CONFIGURATION.
- ⓧ WALL MOUNTED JUNCTION BOX SIZE NOTED OR REQUIRED WITH BLANK SCREW COVER.
- ⓧ WALL MOUNTED JUNCTION BOX SIZE NOTED OR REQUIRED WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION.
- ⓧ WALL MOUNTED JUNCTION BOX SIZE NOTED OR REQUIRED WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION FOR PREWIRED MODULAR FURNITURE. 3/10 & 3/10(NEUTRAL) & 1/10 (GROUND) 1".
- PLUGMOLD ASSEMBLY WITH RECEPTABLES SPACED EVERY 24" ON CENTER. ALTERNATE CIRCUITS FOR EVERY OTHER RECEPTACLE. VERIFY LENGTH ON FLOOR PLANS. PROVIDE 1-1/4". FOR COMMUNICATION CABLING UP ABOVE ACCESSIBLE CEILING. SIMILAR TO WIREMOLD 34000 DESIGNER SERIES.
- \* ALL RECEPTABLES MOUNTED IN STUDENT AREAS SHALL BE TAMPER PROOF RECEPTABLES.

RECEPTABLES:

ALL 120V RECEPTABLES ON THIS PROJECT SHALL BE TAMPER PROOF TYPE WHERE REQUIRED BY THE NATIONAL ELECTRIC CODE.

LIGHTING CONTROLS

- ⓧ CEILING MOUNTED OCCUPANCY SENSOR.
- ⓧ POWER PACK FOR OCCUPANCY SENSOR.
- ⓧ ROOM CONTROLLER - 1 ZONE DIMMING.
- ⓧ ROOM CONTROLLER - 2 ZONE DIMMING.
- ⓧ ROOM CONTROLLER - 3 ZONE DIMMING.
- ⓧ ROOM CONTROLLER - ON/OFF NO DIMMING.
- ⓧ WALL DIMMER - ON/OFF & 0-10V 1-ZONE DIMMING.
- ⓧ WALL DIMMER - ON/OFF & 0-10V 2-ZONE DIMMING.
- ⓧ WALL DIMMER - ON/OFF & 0-10V 2-ZONE DIMMING.
- \$ L LOW VOLTAGE SWITCH, 2-BUTTON.
- \$ L2 LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 2-BUTTON.
- \$ L4 LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 4-BUTTON.
- \$ O1 OCCUPANCY SENSOR WALL SWITCH, DUAL TECHNOLOGY, ON/OFF.
- \$ O2 OCCUPANCY SENSOR WALL SWITCH, DUAL TECHNOLOGY, ON/OFF, RAISE LOWER.
- ⓧ PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC., FURNISHED WITH EQUIPMENT BY OTHER, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.
- ⓧ PHOTOCELL, TORK MODEL 5231 (120V), TWIST RECEPTACLE: TORK 2421.
- \*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS.

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GROUND SLAB.
- RUN CONCEALED IN CEILING OR WALLS.
- EXISTING - REMOVE IF EXPOSED, ABANDON IF CONCEALED, REMOVE ALL CONDUCTORS.
- SURFACE MOUNTED CONDUIT, RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- EMERGENCY.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION.
- LA HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2/12 & 1/12 GROUND - 3/4". 3/12 & 1/12 GROUND - 3/4". 4/12 & 1/12 GROUND - 3/4". ETC AS PER NEC. LETTERS INDICATE PANELBOARD DESIGNATION.
- LA HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2/10 & 1/10 GROUND - 3/4". 3/10 & 1/10 GROUND - 3/4". 4/10 & 1/10 GROUND - 3/4". ETC AS PER NEC. LETTERS INDICATE PANELBOARD DESIGNATION.
- LA HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2/10 & 1/10 GROUND - 3/4". 3/10 & 1/10 GROUND - 3/4". 4/10 & 1/10 GROUND - 3/4". ETC AS PER NEC. LETTERS INDICATE PANELBOARD DESIGNATION.
- WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN, THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 - NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
- RISER: UP, RUNNING TO SOURCE.
  - RISER: DOWN, RUNNING TO SOURCE.

FIRE ALARM

- ⓧ FIRE ALARM SYSTEM CONTROL PANEL.
- ⓧ FIRE ALARM SYSTEM REMOTE ANNUNCIATOR.
- ⓧ FIRE ALARM SYSTEM REMOTE ANNUNCIATOR.
- ⓧ FIRE ALARM SYSTEM NOTIFICATION APPLIANCE CIRCUIT.
- ⓧ JUNCTION BOX WITH HINGED COVER AND TERMINAL STRIP. 24"x24"x8" MINIMUM SIZE. SIZE LARGER AS REQUIRED.
- MINIMUM 3/4" CONDUIT UON. PROVIDE NUMBER AND TYPE OF CONDUCTORS AS REQUIRED BY MANUFACTURER. PROVIDE LARGER CONDUIT IF REQUIRED BY NEC.
- ⓧ FIRE ALARM SYSTEM MANUAL PULL STATION.
- ⓧ FIRE ALARM SYSTEM VOICE EVAC SPEAKER.
- ⓧ FIRE ALARM SYSTEM VOICE EVAC SPEAKER/STROBE.
- ⓧ COMBINATION CHIME AND LIGHT.
- ⓧ ALARM SIGNAL LIGHT.
- ⓧ FIRE ALARM SYSTEM SIGNAL HORN.
- ⓧ FIRE ALARM SYSTEM SIGNAL HORN/STROBE.
- ⓧ FIRE ALARM SYSTEM SIGNAL HORN/STROBE. WEATHERPROOF.
- ⓧ FIRE ALARM SYSTEM SUPERVISORY SWITCH.
- ⓧ FIRE ALARM SYSTEM TAMPER SWITCH.
- ⓧ FIRE ALARM SYSTEM FLOW SWITCH.
- ⓧ FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR, 135 DEGREE/RATE OF RISER TYPE, CEILING MOUNTED.
- T ⓧ FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR, 190 DEGREE/RATE OF RISER TYPE, CEILING MOUNTED.
- ⓧ FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR, CEILING MOUNTED.
- E ⓧ FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR, CEILING MOUNTED, ELEVATOR RECALL.
- ⓧ FIRE ALARM SYSTEM FLAME DETECTOR.
- ⓧ FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT.
- RT ⓧ FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT. PROVIDE AUXILIARY CONTACTS TO INITIATE SMOKE DAMPER CLOSURE, ADDRESSABLE, REMOTE ALARM PILOT LIGHT WITH KEY TEXT SWITCH.
- ⓧ FIRE ALARM SYSTEM REMOVE TEST STATION.
- ⓧ FIRE ALARM SYSTEM ZONE MODULE, CONTROL TYPE.
- ⓧ FIRE ALARM SYSTEM ZONE MODULE, MONITOR TYPE.
- ⓧ FIRE ALARM SYSTEM ZONE MODULE, SIGNAL TYPE.
- ⓧ FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS.
- FIRE ALARM SYSTEM SUPERVISED CIRCUITING IN CONDUIT, RACEWAY INSTALLED CONCEALED
- ⓧ FIRE ALARM SYSTEM FIREMANS PHONE, MOUNTED 48" A.F.F. TO CENTERLINE.

DRAWING CONVENTIONS

- ○ NEW WORK
- ○ EXISTING TO REMAIN
- X-X- ○ EXISTING TO REMOVE
- EX EXISTING TO REMAIN
- XRR EXISTING TO BE RELOCATED
- XRL EXISTING RELOCATED
- XR EXISTING TO BE REMOVED

MISCELLANEOUS EQUIPMENT

- ⓧ CONTACTOR
- ⓧ RELAY
- ⓧ TRANSFORMER
- ⓧ SITE LIGHTING POLE
- ⓧ EXTERIOR POST TOP LIGHT
- ⓧ WATER HEATER
- ⓧ UNIT HEATER
- ⓧ EXHAUST FAN
- ⓧ GENERATOR ANNUNCIATOR PANEL
- ⓧ VARIABLE AIR VOLUME BOX
- ⓧ ELEVATOR CONTROLLER
- ⓧ VARIABLE FREQUENCY DRIVE
- ⓧ GENERATOR ANNUNCIATOR PANEL
- ⓧ AUTOMATIC TRANSFER SWITCH
- ⓧ MANUAL TRANSFER SWITCH
- ⓧ TIME SWITCH

FLOOR BOXES

- ⓧ RECESSED FLOOR BOX WITH FULL EIGHT GANGS. SIMILAR TO WALKER RFB11 OR PRIOR APPROVED EQUALS. ARCHITECT TO SELECT FINISH.
- PROVIDE WITHIN 2-DUPLEX RECEPTABLES NEMA 5-20R.
- PROVIDE CONDUIT AS SHOWN ON DRAWINGS.
- PROVIDE TWO (2) 1-1/4" CONDUITS TO ABOVE ACCESSIBLE CEILING IN CORRIDOR.
- PROVIDE TWO (2) 1-1/4" CONDUITS TO CC. PROVIDE ADDITIONAL CONDUITS AS SHOWN ON DRAWINGS.
- PROVIDE PROTECTIVE COLLAR FOR STUDS.
- PROVIDE WITH FLOOR EXTENSION FOR MOUNTING IN GYMNASIUM FLOOR.

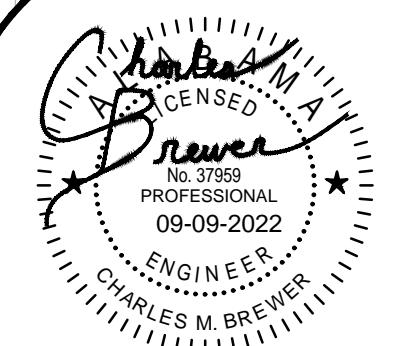
MISCELLANEOUS

- A AMPERE
- ADA AMERICANS WITH DISABILITIES ACT
- AFF ABOVE FINISHED FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- AL ALUMINUM
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED
- CFOI CONTRACTOR FURNISHED OWNER INSTALLED
- CKT CIRCUITS
- CL CENTER LINE
- CU COPPER
- CWP COLD WATER PIPE
- DIA DIAMETER
- EC ELECTRICAL CONTRACTOR
- EM EMERGENCY
- EMT ELECTRIC METALLIC TUBING
- EP EXPLOSION PROOF
- FMC FLEXIBLE METAL CONDUIT
- FLA FULL LOAD AMPERES
- G GROUND
- GFI GROUND FAULT INTERRUPTER
- GRC GALVANIZED RIGID METAL CONDUIT
- GRD GROUND
- H MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTERLINE
- HP HORSE POWER
- KVA KILOWATT
- KW KILOWATT
- KWIL THOUSAND CIRCULAR MILS
- MCA MINIMUM CIRCUIT AMPACITY
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MLO MAIN LUGS ONLY
- MT MOUNT
- N NEUTRAL
- NIC NOT IN CONTRACT
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NL NIGHT LIGHT
- NTS NOT TO SCALE
- P POLE
- PF POWER FACTOR
- PH PHASE
- PNL PANEL
- PVC PVC (POLYVINYL CHLORIDE) CONDUIT
- SLD SINGLE LINE DIAGRAM
- TBB TELEPHONE BACKBOARD
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSORS
- UL UNDERWRITER'S LABORATORY
- UNO UNLESS NOTED OTHERWISE
- V VOLTAGE
- W WIRE
- WP WEATHERPROOF
- # NUMBER
- 3R NEMA 3R WEATHERPROOF ENCLOSURE
- 4X NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE

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SHEET TITLE : ELECTRICAL LEGEND AND NOTES

MCKEE JOB # : 21.269

DRAWN BY : CMB, SBW

DATE : 9.9.22

REVISED DATE :

REVISED DATE :

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SHEET NO. : E0.1

CCTV SYSTEM

SECURITY CAMERA. SINGLE GANG JUNCTION BOX WITH 3/4" CONDUIT AND CAT6 TO ABOVE ACCESSIBLE CEILING IN CORRIDOR. WHERE CAMERAS ARE INDICATED IN CORRIDORS WITH LAY-IN CEILINGS, NO JUNCTION BOX IS REQUIRED. SEE DETAIL SHEET E6.1.

COMMUNICATIONS

- WALL OUTLET - 4-1/2" SQ x 3-1/2" DEEP BOX, MOUNT 18" A.F.F., "Y" INDICATES NUMBER OF CAT 6 RJ-45 JACKS AND CAT 6 CABLES IN 1" CONDUIT BACK TO LOCAL CC. TERMINATE CABLES, LABEL AND TEXT. SEE E6.2.
- WALL OUTLET - 4-1/2" SQ x 3-1/2" DEEP BOX, MOUNT ABOVE COUNTER, FOR TYPICAL UNITS-SEE COMMUNICATIONS OUTLET DETAILS.
- WALL OUTLET - 4-1/2" SQ x 3-1/2" DEEP BOX, "SB" INDICATES SMARTBOARD. VERIFY HEIGHT WITH OWNER'S IT DEPT. PROVIDE 1-RJ45 & 1-CAT6 CABLE TO NEAREST CC CABINET.
- WALL OUTLET - 2-GANG WITH 1 1/2" KNOCKOUT DEEP BOX, MOUNT AT 18" A.F.F., PROVIDE WITH 1 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING. FOR TYPICAL CLASSROOMS SEE COMMUNICATIONS OUTLET DETAIL.
- WALL MOUNTED - 2-GANG WITH 2" KNOCKOUT DEEP BOX, MOUNTED AT 7'-0" A.F.F., PROVIDE WITH 2" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH NYLON PULL CORO. FOR TYPICAL UNITS SEE COMMUNICATIONS OUTLET DETAIL.
- TELEPHONE BACKBOARD - 3/4" EXTERIOR GRADE PLYWOOD WITH TWO COATS OF INSULATING VARNISH, SIZE AS SHOWN.
- CABLE TRAY.
- CEILING OUTLET FOR WIRELESS INTERNET - 1 RJ45 AND 1 CAT 6 CABLE BACK TO NEAREST CC. SEE DETAILS E6.2.
- FLOOR MOUNTED COMMUNICATIONS RACK. SEE COMMUNICATIONS RISERS, FLOOR PLANS AND ELEVATIONS FOR FURTHER REQUIREMENTS. E4 SERIES AND E6 SERIES DRAWINGS.

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- A.C. TYPE, SINGLE POLE, 20AMP, 120/277 VOLT.
- A.C. TYPE, 3-WAY, 20AMP, 120/277V VOLT.
- A.C. TYPE, 4-WAY, 20AMP, 120/277V VOLT.
- A.C. TYPE, 4-WAY, 20AMP, 120/277V VOLT, CONTROLS ZONE 'G'.
- ICE MACHINE DISCONNECT SWITCH, INSTALL RECESSED JUNCTION BOX WITH FUSE BLOCK AND FUSES (SIZE PER MANUFACTURER), AT 14"H. (COORDINATE LOCATION WITH EQUIPMENT TO BE USED). INSTALL MANUAL MOTOR SWITCH AT 48"H. ENGRAVE JUNCTION BOX COVER TO READ 'ICE MACHINE FUSES'.
- TWO SWITCHES IN TWO GANG BOX UNDER ONE WALLPLATE (NOTE: IF SWITCHES ARE CONNECTED TO DIFFERENT PANELBOARDS PROVIDE STEEL BARRIER BETWEEN SWITCHES.).
- MOMENTARY CONTACT, 15A., 3-POSITION.
- MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS, A.C. TYPE, 20AMP, 120/277 VOLT.
- MOTOR RATED TOGGLE SWITCH DISCONNECT, WITHOUT THERMAL OVERLOADS, A.C. TYPE, 20AMP, 120/277 VOLT.
- MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS, A.C. TYPE, 30AMP, 120/277 VOLT.
- RAISE/LOWER SWITCH FOR PROJECTION SCREEN.

GENERAL DEMOLITION NOTES:

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID AND BIDDING ACCORDINGLY.
- ALL DEMOLITION WORK SHALL BE PERFORMED WITH CARE NOT TO DISTURB THE OTHER EXISTING UTILITIES. IF EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR, THE EXISTING UTILITIES ARE TO BE FIXED TO ITS ORIGINAL CONDITION WITHOUT DELAY, BY AND AT THE EXPENSE OF THE CONTRACTOR.
- LEGEND SYMBOLS ARE TYPICAL AND LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO LIMIT THE AMOUNT OF DEMOLITION WORK. COORDINATE WITH EXISTING CONDITIONS AND THESE NOTES AND REMOVE ALL APPLICABLE SYSTEMS AND COMPONENTS CONFLICTING WITH FINISHED DESIGN INTENT.
- EXISTING BRANCH WIRING AND DEVICES SHOWN IS DIAGRAMMATIC ONLY BASED ON EXISTING DRAWINGS AND SURVEYS. COORDINATE WITH ACTUAL EXISTING CONDITIONS FOR EXACT LOCATIONS.
- TRENCH, CUT AND REMOVE EXISTING SURFACES AS REQUIRED FOR THE INSTALLATION OF ALL NEW ELECTRICAL PROVISIONS.
- CONCEALED CONDUIT THAT CANNOT BE REMOVED DUE TO INACCESSIBILITY MAY BE ABANDONED. CONDUCTORS SHALL BE REMOVED AND CONDUIT CUT FLUSH WITH SURFACE.
- OUTLET BOXES THAT CANNOT BE REMOVED DUE TO FLUSH MOUNTING IN PARTITIONS SHALL BE FILLED WITH GROUT, PATCHED AND FINISHED FLUSH TO MATCH EXISTING WALL SURFACE.
- EXISTING JUNCTION BOXES MAY BE USED AS NOTED IF OF THE PROPER SIZE. MODIFICATIONS SHALL BE MADE WHEN REQUIRED SUCH AS PROVIDING EXTENSION RINGS, LOCKNUTS, BUSHINGS, ETC.
- EXISTING PANELBOARDS SHALL BE UTILIZED TO FACILITATE THE WORK AS SHOWN ON THE DRAWINGS. NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER (WHENEVER POSSIBLE), FRAME SIZE, AIC RATING AND TYPE AS EXISTING. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL MATERIALS FOR PANELBOARDS TO PROPERLY MEET THE INTENT OF THE DRAWINGS.
- WHEN EXISTING DEVICES, SWITCHES, EQUIPMENT, ETC. ARE NOTED TO BE REMOVED AND THE CIRCUIT(S) SERVING SUCH ITEMS SERVES OTHER ITEMS OR DEVICES WHICH ARE TO BE MAINTAINED, THE CONTRACTOR SHALL REROUTE, EXTEND, MODIFY, ETC. EXISTING CIRCUITS AS REQUIRED TO MAINTAIN COMPLETE AND OPERATING SYSTEMS.
- IN ALL AREA TO BE REWORKED, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT (LIGHT FIXTURES, DEVICES, ETC) AND ALL BRANCH CIRCUITS AND FEEDERS NOT REQUIRED FOR CONTINUATION OF EXISTING CIRCUITS TO REMAIN AND REWORK THE AREA AS SHOWN. ANY CIRCUITS BROKEN BY DEMOLITION FOR THE NEW BUILDING ALTERATIONS SHALL BE REPLACED AS REQUIRED. PROVIDE BLANK COVERS FOR ALL UNUSED OUTLETS NEEDED FOR CONTINUITY OF EXISTING CIRCUITS.

PANELS AND POWER

- PANELBOARD SURFACE MOUNTED.
- PANELBOARD FLOOR MOUNTED.
- CONTROL PANEL.
- NON-FUSIBLE DISCONNECT SWITCH, XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING.
- FUSIBLE DISCONNECT SWITCH, XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING. FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS.
- CIRCUIT BREAKER, XX/YY WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES.
- MAGNETIC MOTOR STARTER, SIZE 1.
- COMBINATION NON-FUSIBLE DISCONNECT SWITCH AND STARTER, XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING.
- COMBINATION FUSIBLE DISCONNECT SWITCH AND STARTER, XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING. FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS.
- MOTOR: SHOWN ZHP (TYPICAL)
- CIRCUIT BREAKER
- NONFUSIBLE SWITCH
- FUSIBLE SWITCH
- AUTOMATIC TRANSFER SWITCH
- DRAWOUT CONNECTION
- PAD MOUNTED TRANSFORMER
- LOAD BREAK CONNECTION
- GROUND
- METER
- GROUNDING ELECTRODE CONNECTION.

PAGING AND INTERCOM SYSTEM

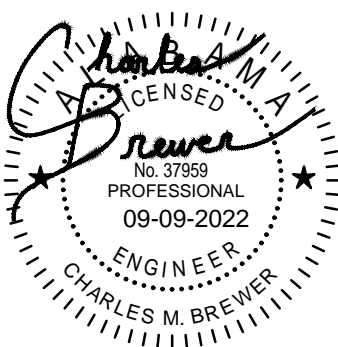
- PAGING SPEAKER, OWNER FURNISHED, PROVIDE CAT 6 DROP AT THIS LOCATION SEE DETAIL E.6.2.

GENERAL ELECTRICAL NOTES:

- THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL PLANS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC.
- INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
- MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
- ALL SYMBOLS SHOWN ON THIS LEGEND MAY NOT BE USED.
- ALL BRANCH CIRCUIT CONDUIT SHALL BE GALVANIZED EMT, JOINED AND TERMINATED WITH SET SCREW STEEL FITTING, 3/4" CONDUIT MINIMUM.
- ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
- VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
- THE LOCATION OF OUTLETS, FIXTURES AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
- COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS. POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
- ALL CIRCUITS SHOWN CONCEALED SHALL BE RUN IN FURRED CEILING SPACES AND SHALL BE CONCEALED IN CONCRETE SLAB ONLY WHEN NO FURRED CEILING SPACE IS PROVIDED.
- ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
- ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRC, EMT WILL NOT BE ACCEPTED.
- ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPSUM CEILING.
- ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH PULL WIRES.
- ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
- ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO THE OTHER.
- ALL FLUSH MOUNTED PANELS SHALL HAVE 3-1" EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE CIRCUITS.
- PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
- INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
- ALL UNDERGROUND CONDUIT RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
- ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENING SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK IS INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS COMPLETED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
- PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY EXISTING FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACTOR SHALL BE CAREFULLY PLANNED AND COORDINATED IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE. CONTRACTOR IS RESPONSIBLE FOR ALL OVERTIME, HOLIDAY AND WEEKEND PAY TO THEIR EMPLOYEES TO DO THIS WORK DURING SCHEDULED NON-NORMAL WORK HOURS.
- ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL HAVE AN EMERGENCY BATTERY DRIVER CONNECTED AHEAD OF LOCAL SWITCHING, UNLESS EMERGENCY LIGHTING IS ON EMERGENCY CIRCUIT FROM A GENERATOR.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER RACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
- HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS. THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS. FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC. WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.
- ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZED PER NEC OR AS SHOWN. CONNECT TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDE GROUND WIRE.
- INFORMATION SHOWN ON THESE PLANS IS TAKEN FROM EXISTING DRAWINGS AND SITE SURVEY. PRIOR TO BID, THE ELECTRICAL CONTRACTOR SHALL VISIT SITE TO SURVEY EXISTING CONDITIONS AFFECTING WORK. INCLUDE NECESSARY MATERIALS AND LABOR TO ACCOMPLISH THE ELECTRICAL WORK, INCLUDING RELOCATION OF EXISTING EQUIPMENT TO ALLOW FOR NEW CONSTRUCTION. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND RESOLVED PRIOR TO BID. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
- MULTI-POLE BREAKERS SHALL BE USED TO SERVE MULTIWIRE BRANCH CIRCUITS. MULTIPLE SINGLE POLE BREAKERS MY BE USED IN CONJUNCTION WITH UL LISTED HANDLE TIES THAT WILL INITIATE A COMMON DISCONNECT OF ALL UNGROUNDED CONDUCTORS. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER.
- FURNISH & INSTALL FIRE ALARM PANEL AND DEVICES WHICH CONFORM TO ALL NATIONAL, STATE, & LOCAL CODES. FIRE ALARM CONTRACTOR TO HOLD A CURRENT LICENSE TO CONDUCT BUSINESS ISSUED BY THE STATE OF ALABAMA FIRE MARSHAL'S OFFICE. PROVIDE ADDITIONAL DEVICES AS REQUIRED. PROVIDE TO ARCHITECT A COMPLETE SET OF MANUFACTURER'S SYSTEM INSTALLATION PLANS INCLUDING RISER DIAGRAM, CONDUIT & WIRING, INTERCONNECTION DIAGRAMS, DEVICE LOCATIONS AND ALL REQUIRED CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. PROVIDE CONDUIT & WIRING AS DIRECTED BY SYSTEM SUPPLIER.

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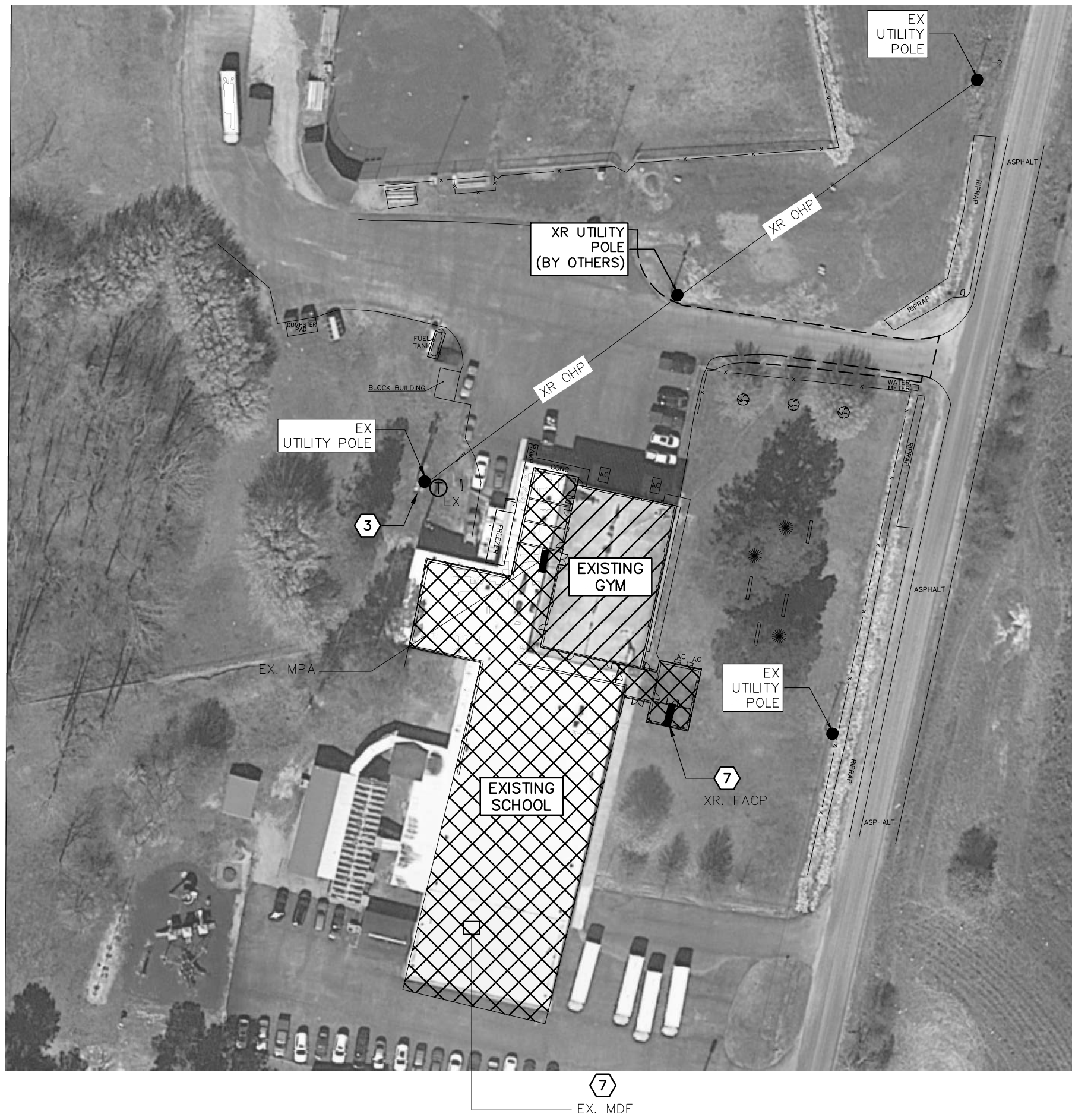
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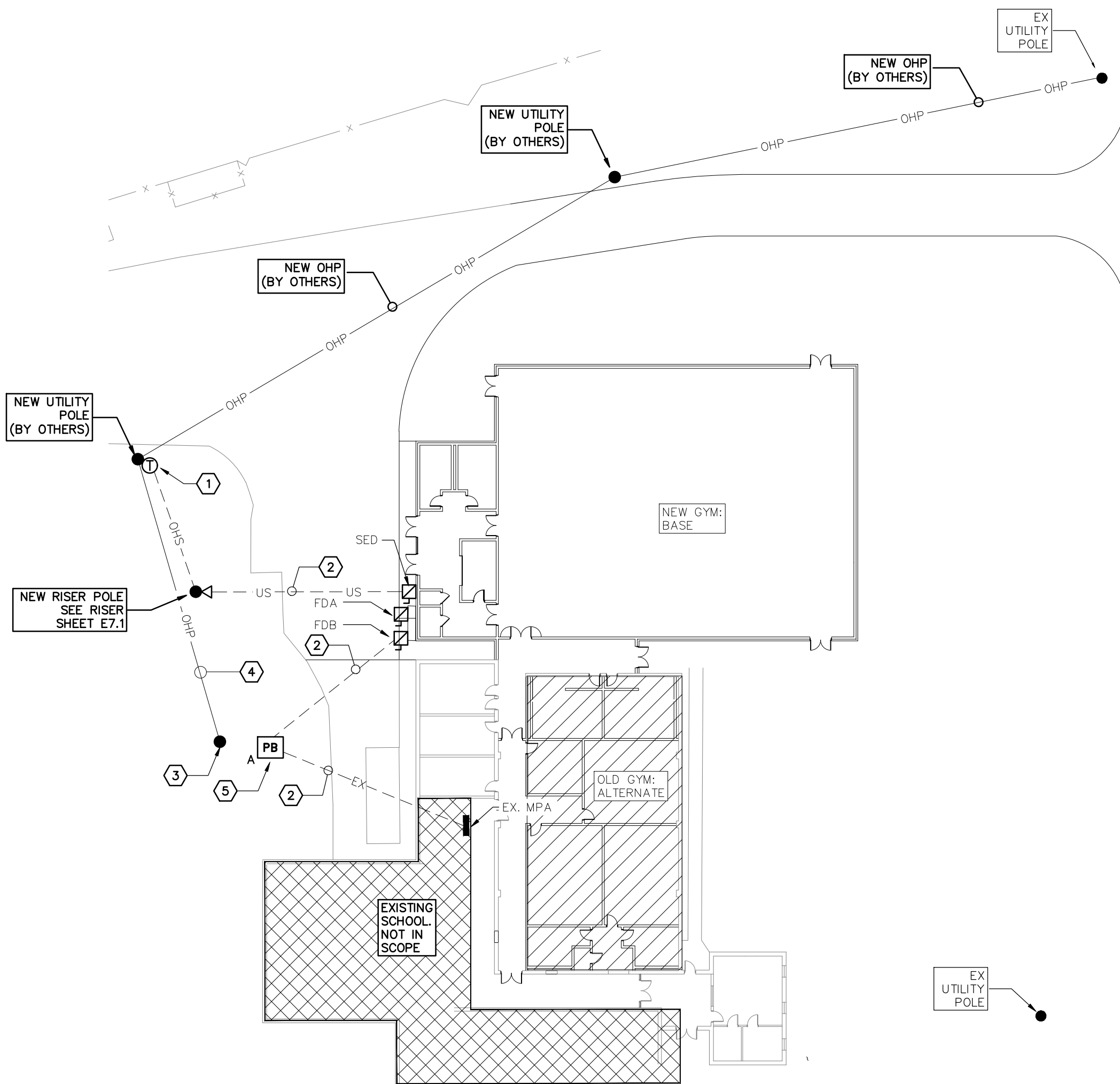
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SHEET NO. : E0.2





SITE PLAN - OVERALL PLAN - EXISTING  
SCALE: NO SCALE

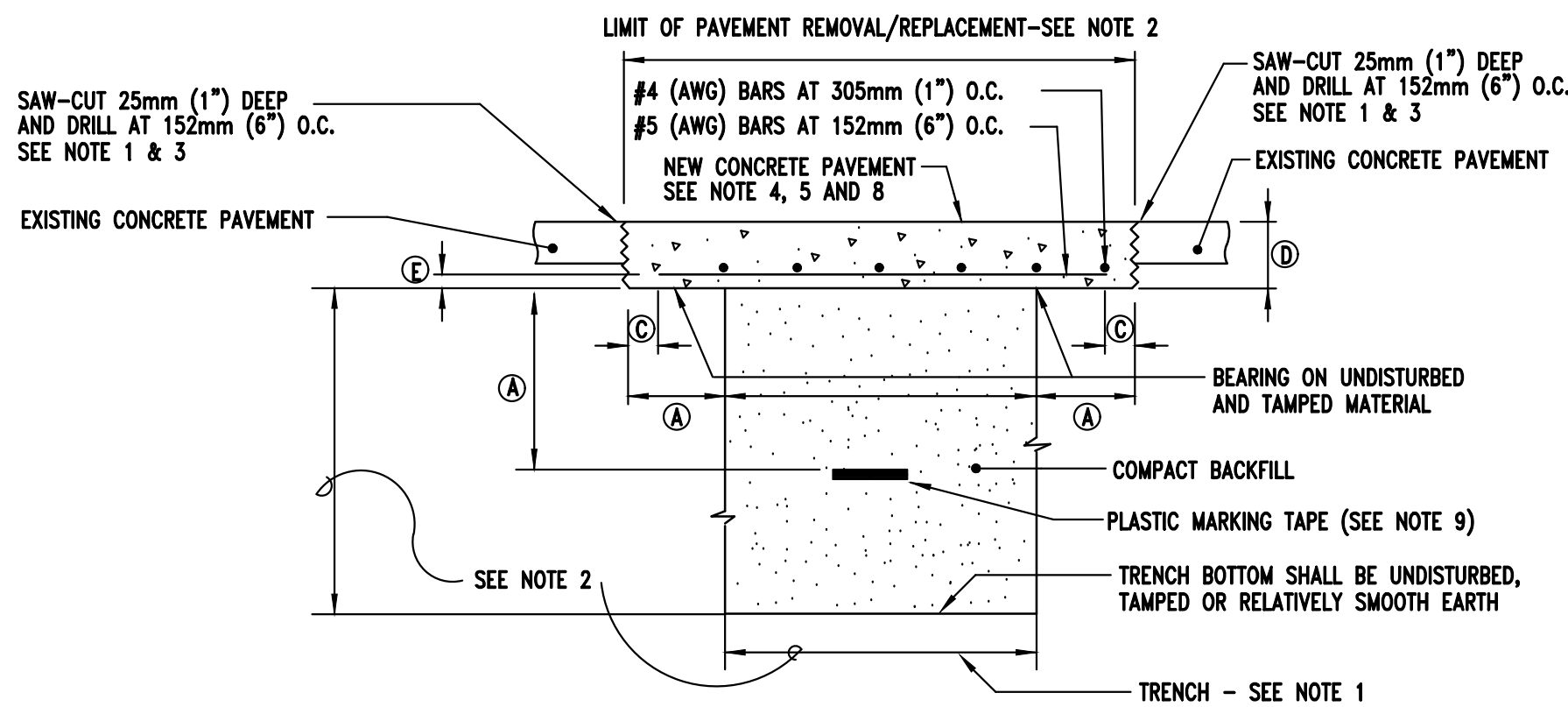


SITE PLAN - NEW WORK - POWER & AUXILIARY  
SCALE: 1" = 30'-0"

NOTES:

- TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
- TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
- PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
- CONCRETE SHALL BE CLASS A.
- MATCH THICKNESS OF EXISTING CONCRETE PAVEMENT 8" (20.32cm) MIN.
- LEAVE DRILLED FACE OF EXISTING PAVEMENT IRREGULAR TO INSURE KEY TO NEW CONCRETE PAVEMENT.
- ALL EXISTING JOINTS TO BE RE-ESTABLISHED.
- REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40.
- REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE PAVEMENT.
- PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

REF	SI	ENGLISH
A	305mm	1'-0"
B	152mm	0'-6"
C	51mm	0'-2"
D	203mm	0'-8"
E	76mm	0'-3"

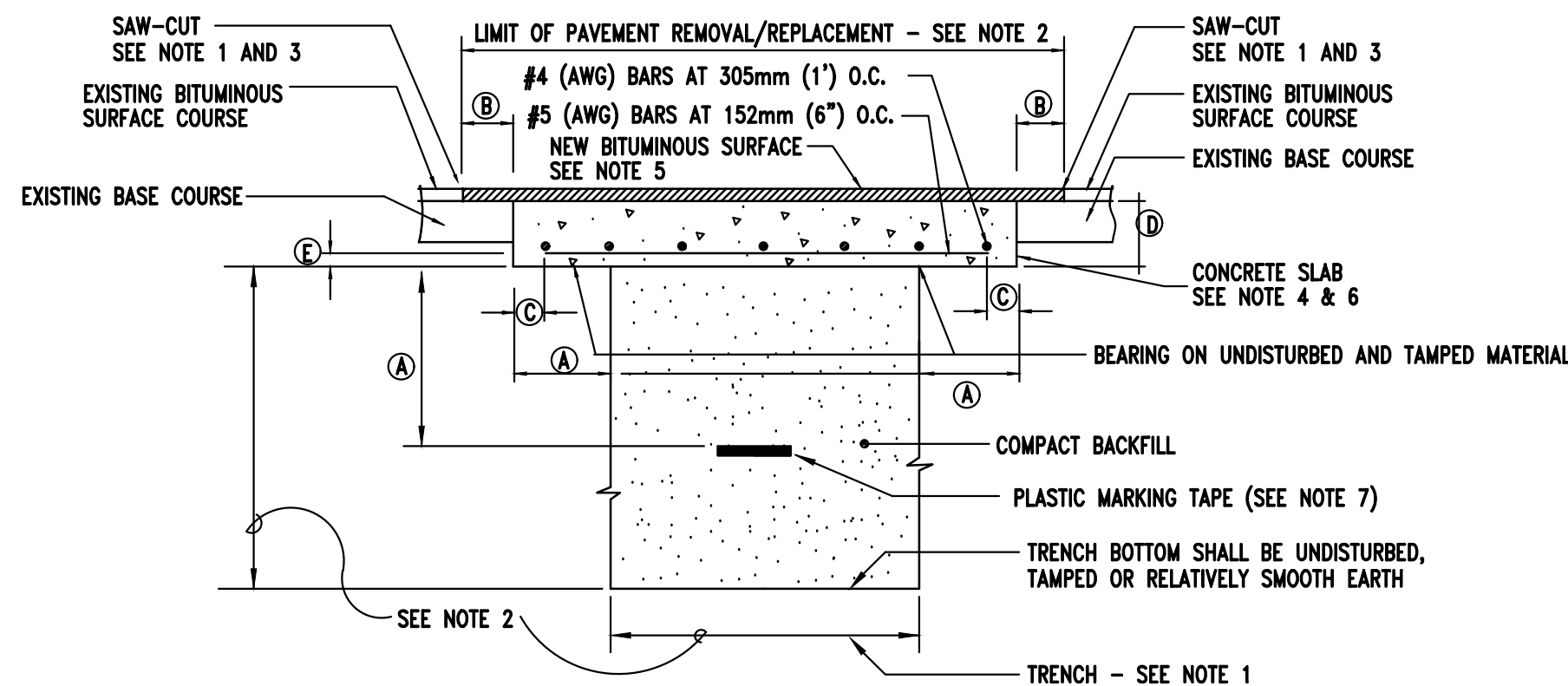


1 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR RIGID PAVEMENT  
E1.1 NO SCALE

NOTES:

- TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
- TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
- PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
- CONCRETE SHALL BE CLASS A.
- MATCH THICKNESS OF EXISTING BITUMINOUS SURFACE, OR 38mm (1.5") MINIMUM, WHICHEVER IS GREATER.
- REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40.
- REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE SLAB.
- PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

REF	SI	ENGLISH
A	305mm	1'-0"
B	152mm	0'-6"
C	51mm	0'-2"
D	203mm	0'-8"
E	76mm	0'-3"



2 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR FLEXIBLE PAVEMENT  
E1.1 NO SCALE

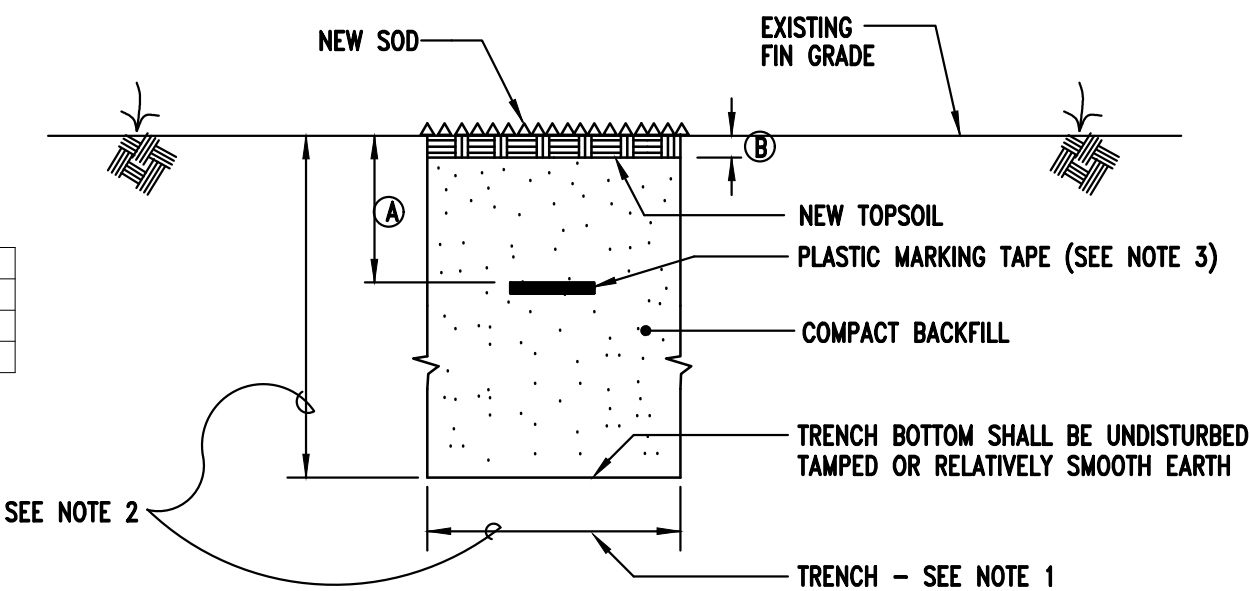
GENERAL NOTES:

- LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
- ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. PRIMARY CONDUIT SHALL BE MINIMUM 48" BELOW GRADE.
- ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
- CONTRACTOR SHALL LABEL ALL CONDUITS ENTERING BACKBOARDS.
- LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
- VISIT SITE PRIOR TO BIDS TO VERIFY ROUTING AND LENGTHS OF CIRCUITRY ON ALL SYSTEMS PRIOR TO BIDS. ADJUST ALL LENGTHS ACCORDINGLY.

NOTES:

- TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR AND INSTALL NEW SOD.
- TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
- PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

REF	SI	ENGLISH
A	305mm	1'-0"
B	51mm	0'-2"



3 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR SODDED AREAS  
E1.1 NO SCALE

SHEET NOTES:

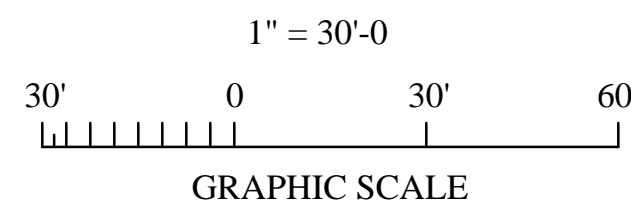
- COORDINATE WITH UTILITY COMPANY FOR SPECIFIC LOCATION AND REQUIREMENTS OF UTILITY CONNECTIONS. SEE POWER RISER DIAGRAM SHEET E7.1 FOR FURTHER REQUIREMENTS.
- PROVIDE SECONDARY CONDUCTORS AS INDICATED ON RISER DIAGRAM SHEET E7.1. REPAIR ASPHALT AS REQUIRED. SEE DETAIL THIS SHEET.
- OVERHEAD SERVICE FROM UTILITY POLE TO SCHOOL TO BE DEMOLISHED. POLE TO BE MAINTAINED. COORDINATE DISCONNECTION WITH LOCAL UTILITY. REMOVE RISER AND METER BASE. CAPTURE AND EXTEND CONDUIT AND CONDUCTORS. SEE RISER SHEET E7.1.
- EXISTING OVERHEAD PRIMARY POWER.
- COORDINATE SHUTDOWN WITH SCHOOL FOR CONTINUOUS OPERATION OF SCHOOL WITHOUT LOSS OF DAYS WITHOUT POWER. FINAL CUT OVER FROM OLD SERVICE TO NEW SHALL HAPPEN IN AN "AFTER HOURS OR VACATION" TIME FRAME. REMOVE EXISTING SECONDARY CONDUCTORS TO EXISTING MPA. CAPTURE CONDUITS AND EXTEND THROUGH PULL BOX PB TO SERVICE GUTTER LOCATED ON NEW GYM. PULL NEW CONDUCTORS WITH GROUND TO EXISTING PANEL MPA.
- EXISTING DATA/COMM CONDUIT ENTERING BUILDING. MAINTAIN EXISTING FIBER CABINET AND FIBER SERVICE TO BUILDING.
- EXISTING FIBER CABINET AND MDF APPROX-LOCATION. VERIFY PRIOR TO BID.

UNDERGROUND UTILITY NOTES:

- THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
  - TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
  - LOW VOLTAGE CONDUCTOR INSTALLATION
  - PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
- INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND THE NATIONAL ELECTRICAL CODE (NEC).
- ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED. UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
- ALL CLEARANCES SHALL BE MAINTAINED PER NEC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
- ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
- UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD ONTO THE OTHER LINE. DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
- ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
- PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE NETWORK ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION. FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ON PAVEMENTS RED PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY TRENCHING.
- DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITIONS, EXISTING UTILITY CROSSINGS, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
- ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 200.

SITE LEGEND

- |       |                                |      |  |
|-------|--------------------------------|------|--|
| —OHP— | OVERHEAD ELECTRICAL BY UTILITY | [Tx] | PAD MOUNTED TRANSFORMER  |
| —OHS— | OVERHEAD SECONDARY             | [T]  | POLE MOUNTED TRANSFORMER   |
| —UP—  | UNDERGROUND PRIMARY            | ●    | UTILITY POLE   |
| —US—  | UNDERGROUND SECONDARY          | ●    | UTILITY POLE WITH UTILITY FLOOD LIGHT  |
| —UC—  | UNDERGROUND COMMUNICATION      | [PB] | UNDERGROUND PULLBOX; HOUSING NO. PHA243624H42-MOD. PROVIDE WITH COVER LABELED "ELECTRICAL" |
| —OC—  | OVERHEAD COMMUNICATION         |      |  |
| —UG—  | UNDERGROUND BRANCH CIRCUITING  |      |  |
| —OH—  | OVERHEAD BRANCH CIRCUITING     |      |  |



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SHEET TITLE : SITE PLAN - POWER

MCKEE JOB # : 21.269

DRAWN BY : CMB, SBW

DATE : 9.9.22

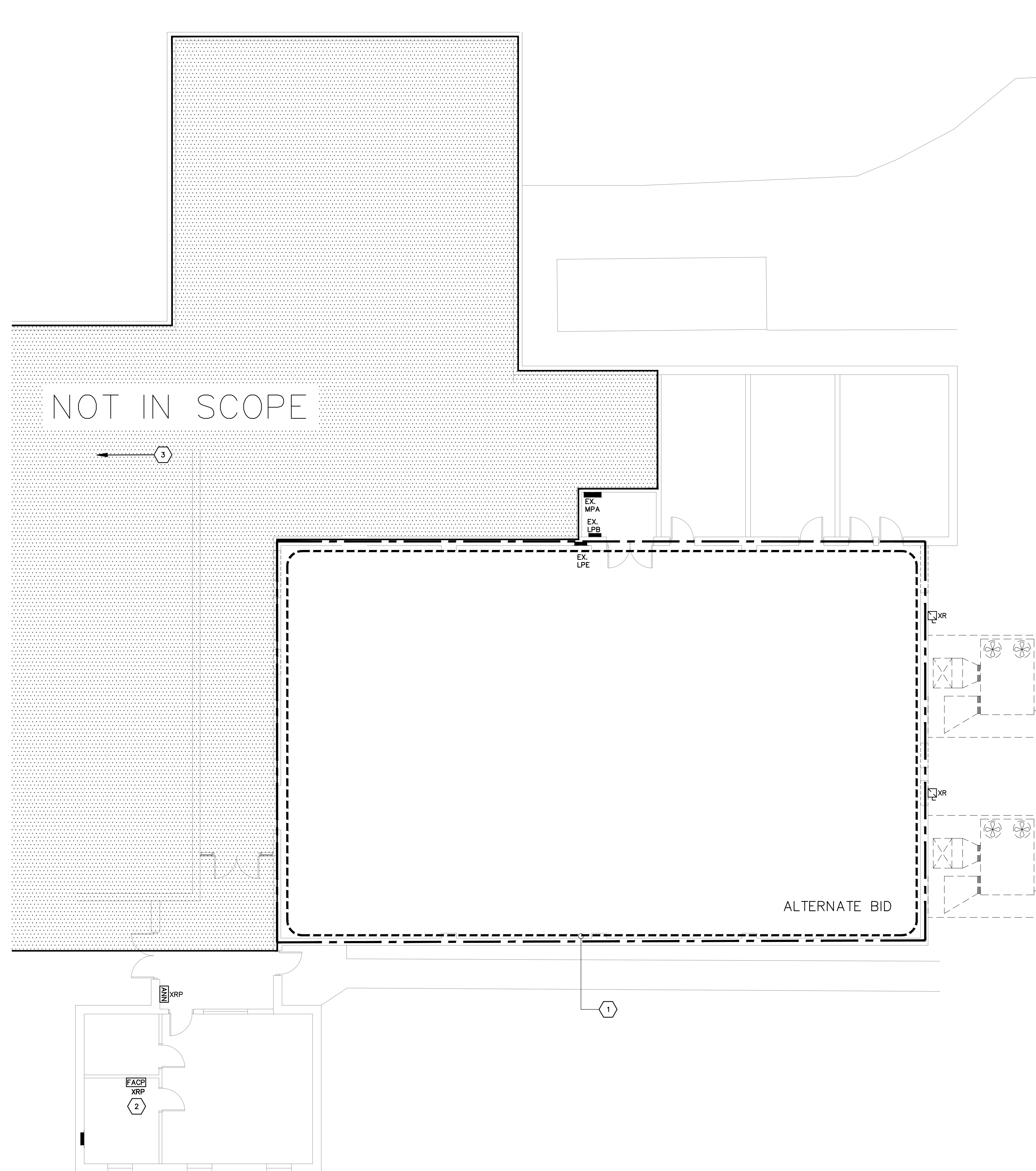
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REVISED DATE :

SHEET NO. : E1.1

- 1 REMOVE ALL ELECTRICAL, LIGHTING, AND DATA/COMM DEVICES, CONDUITS, AND CONDUCTORS IN EXISTING BUILDING. ALL OTHER ITEMS TO BE REMOVED FROM SCHOOL GROUNDS. SEE DEMOLITION NOTES SHEET E0.2.
- 2 MAINTAIN FIRE ALARM PROTECTION DURING ALL PHASES OF CONSTRUCTION. SHOULD BUILDING BE OCCUPIED WITH SYSTEM DOWN. A FIRE WATCH IS REQUIRED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. COORDINATE CUT OVER TO NEW SYSTEM DURING DAYS "NOT IN SCHOOL".
- 3 SEE SHEET E1.1 FOR LOCATIONS OF EXISTING MDF.



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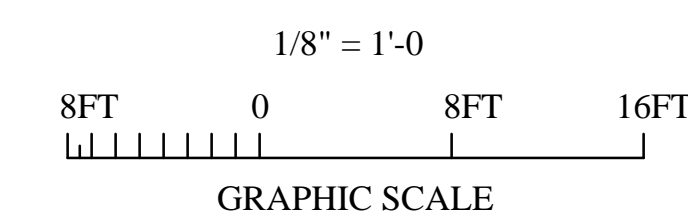
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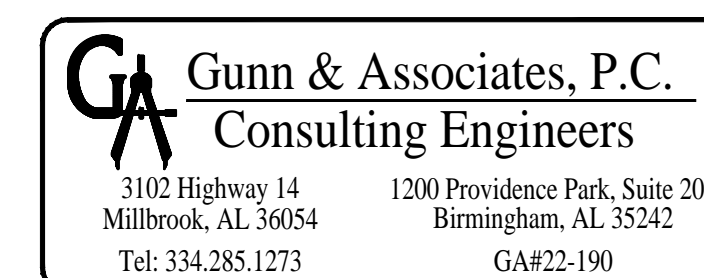
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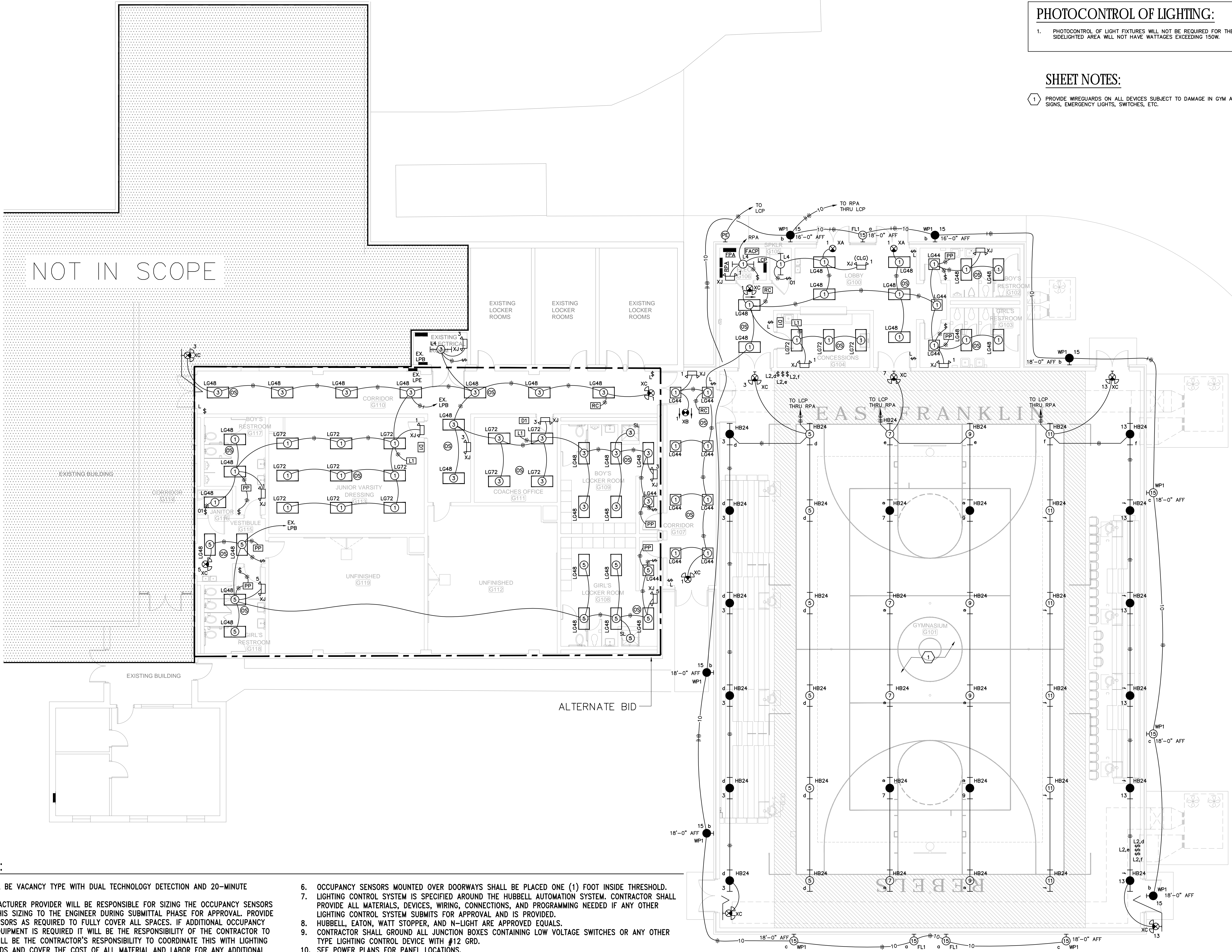
SHEET NO.: **E1.2**



## FLOOR PLAN - DEMOLITION







**ROOM CONTROLLER NOTES:**

1. CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLER SHOWN ON THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL WITH 1" BLACK TEXT THAT READS "RC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

**PHOTOCONTROL OF LIGHTING:**

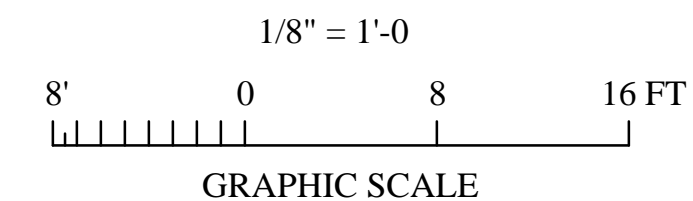
1. PHOTOCONTROL OF LIGHT FIXTURES WILL NOT BE REQUIRED FOR THE AREAS ON THIS PAGE. THE PRIMARY SIDELIGHTED AREA WILL NOT HAVE WATTAGES EXCEEDING 150W.

**SHEET NOTES:**

1. PROVIDE WIREGUARDS ON ALL DEVICES SUBJECT TO DAMAGE IN GYM AREA; LIGHTS, EXIT SIGNS, EMERGENCY LIGHTS, SWITCHES, ETC.

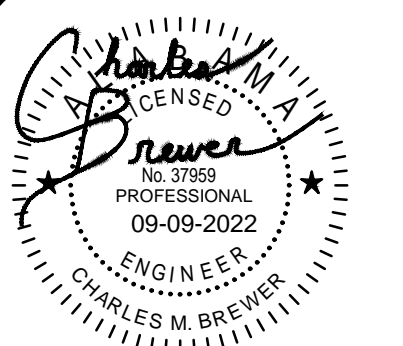
- GENERAL NOTES:**
- OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
  - OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
  - ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
  - ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
  - CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
  - OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
  - LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHTING CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
  - HUBBELL, EATON, WATT STOPPER, AND N-LIGHT ARE APPROVED EQUALS.
  - CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.
  - SEE POWER PLANS FOR PANEL LOCATIONS.
  - PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
  - COORDINATE WITH LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
  - COORDINATE WITH POWER PLANS FOR RECEPTACLE ROOM CONTROLLERS REQUIRED TO CONTROL RECEPTACLE CIRCUITRY.
  - CONTRACTOR SHALL PROVIDE DEDICATED NEUTRALS FOR EACH DIMMING CIRCUIT.

**FLOOR PLAN - LIGHTING**  
SCALE: 1/8" = 1'-0"



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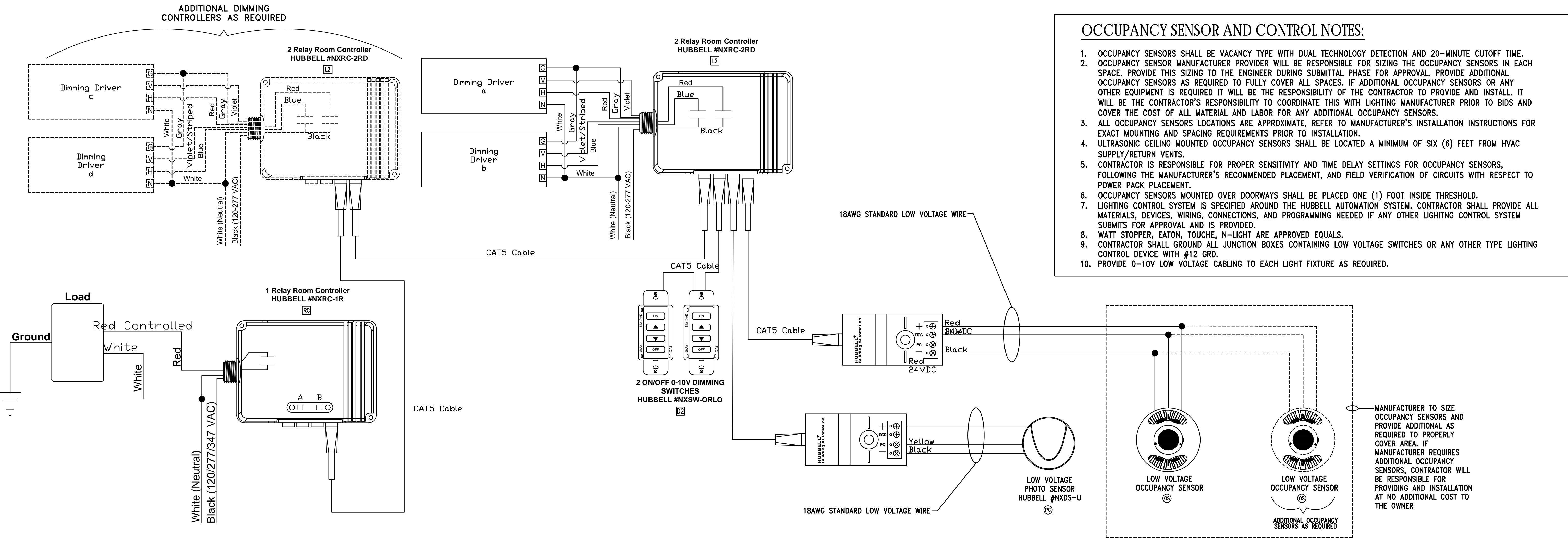
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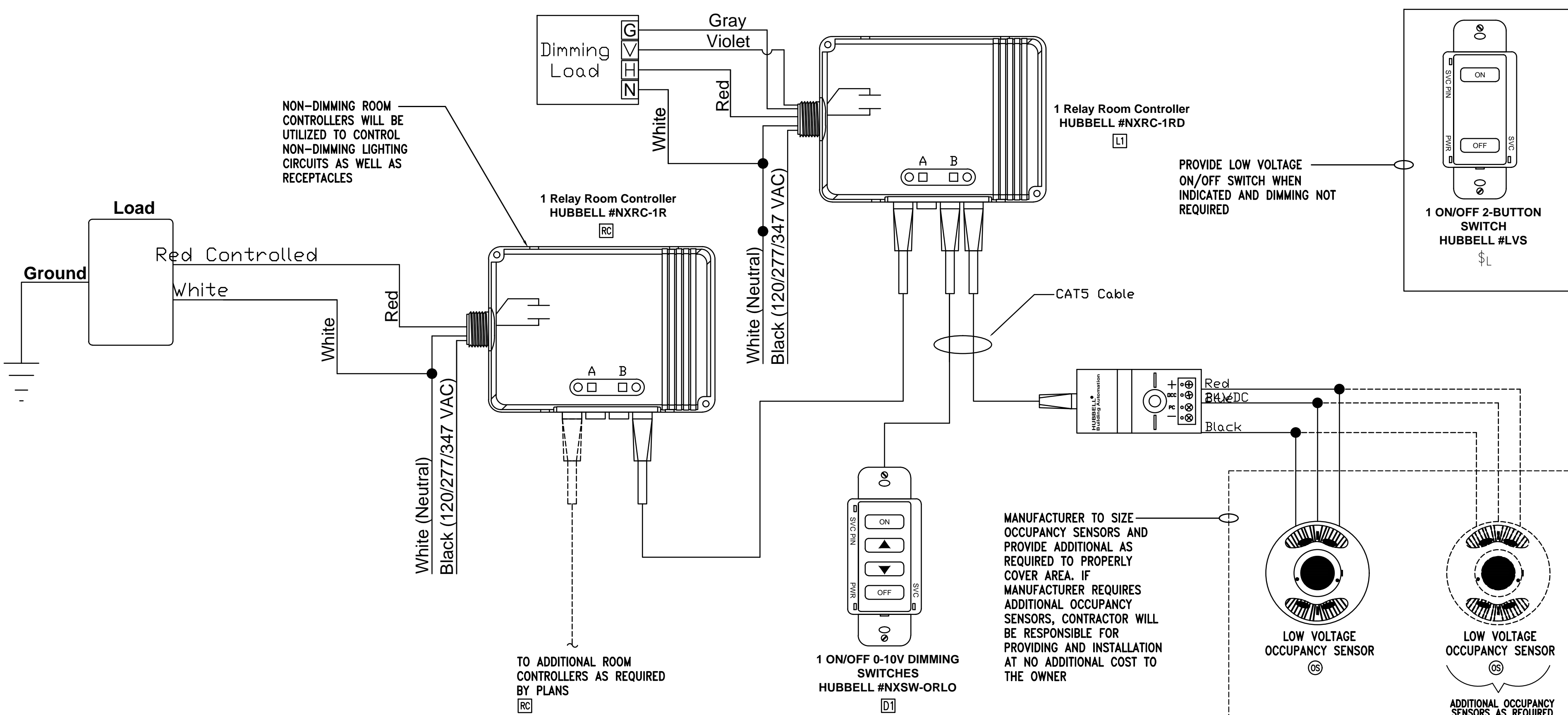
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MCKEE JOB # : 21.269  
DRAWN BY : CMB, SBW  
DATE : 9.9.22  
REVISED DATE :  
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REVISED DATE :

SHEET NO. : **E2.1**

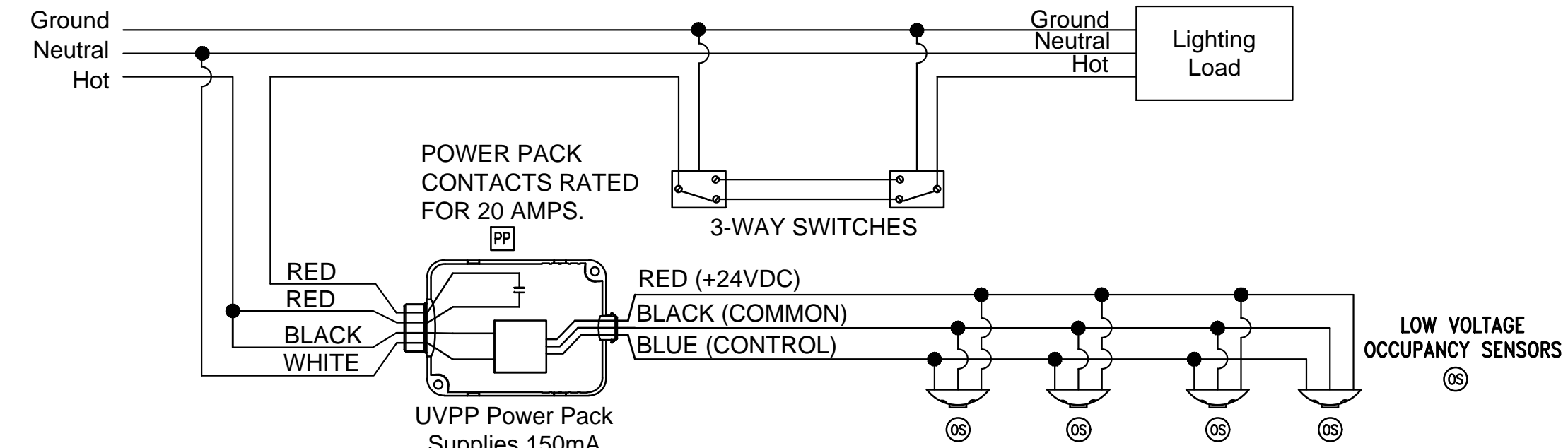
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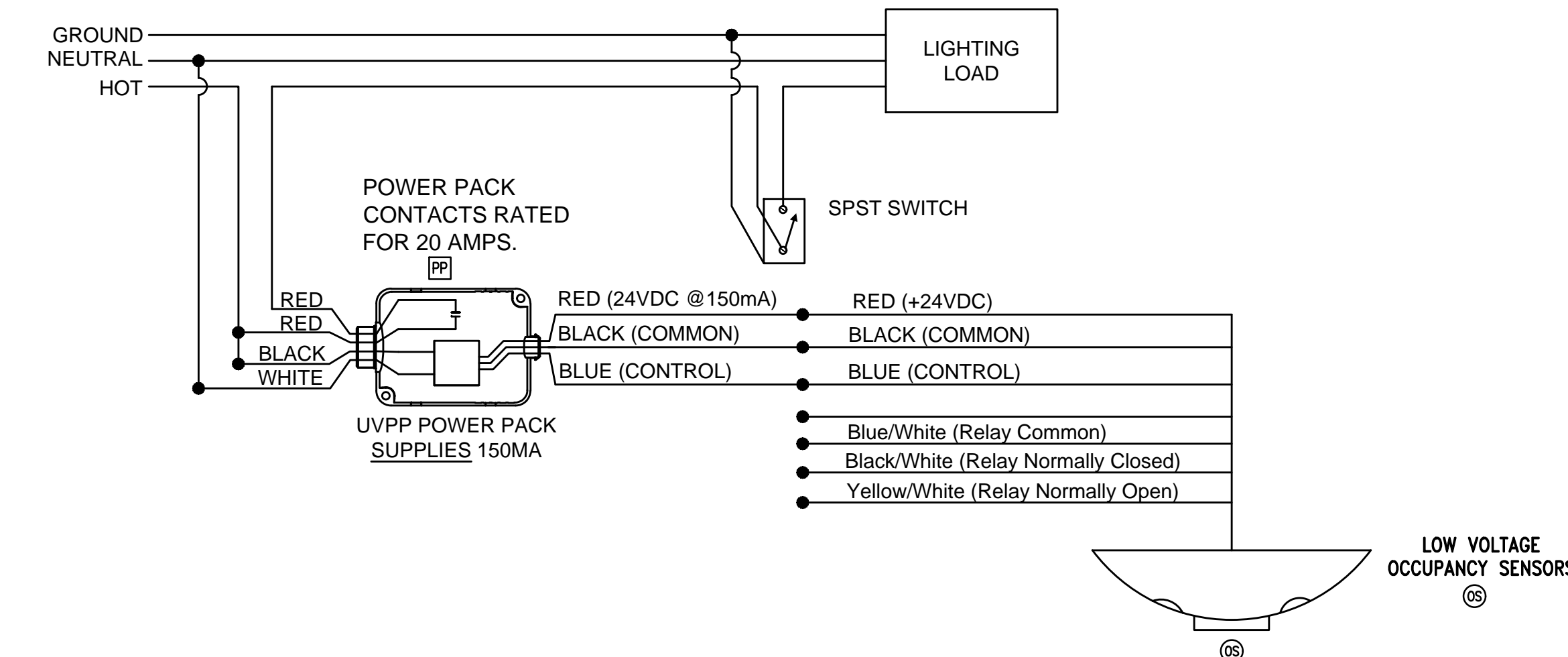
1 TYPICAL MULTIPLE OCCUPANCY SENSOR, PHOTOCELL, MULTIPLE 0-10V DIMMING ZONES DETAIL  
NO SCALE



2 TYPICAL MULTIPLE OCCUPANCY SENSOR, SINGLE 0-10V DIMMING SYSTEM DETAIL  
NO SCALE



3 TYPICAL 3-WAY SWITCHING OCCUPANCY SENSOR WIRING DIAGRAM  
NO SCALE



4 TYPICAL SINGLE SWITCH OCCUPANCY SENSOR WIRING DIAGRAM  
NO SCALE

**OCCUPANCY SENSOR AND CONTROL NOTES:**

1. OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
2. OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
3. ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
4. ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
5. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
6. OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
7. LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHTING CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
8. WATT STOPPER, EATON, TOUCHE, N-LIGHT ARE APPROVED EQUALS.
9. CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GND.
10. PROVIDE 0-10V LOW VOLTAGE CABLING TO EACH LIGHT FIXTURE AS REQUIRED.

MANUFACTURER TO SIZE OCCUPANCY SENSORS AND PROVIDE ADDITIONAL AS REQUIRED TO PROPERLY COVER AREA. IF MANUFACTURER REQUIRES ADDITIONAL OCCUPANCY SENSORS, CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLATION AT NO ADDITIONAL COST TO THE OWNER

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SHEET TITLE : LIGHTING CONTROLS  
MCKEE JOB # : 21.269  
DRAWN BY : CMB, SBW  
DATE : 9.9.22  
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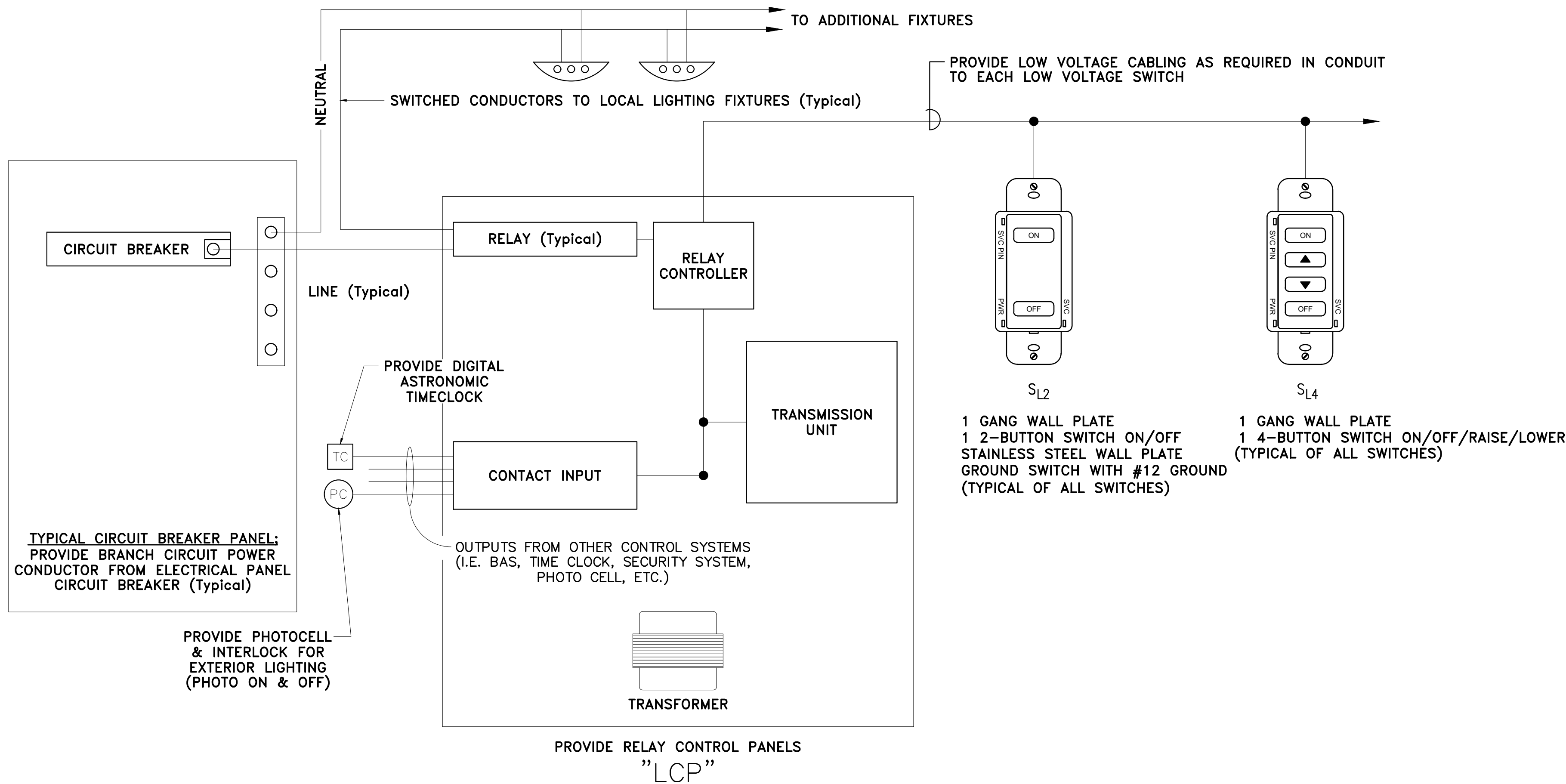
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SHEET NO. : **E2.2**



LIGHTING CONTROL SYSTEM NOTES

1. PROVIDE BLINK FLASH MODULE TO ENABLE THE LIGHTING CONTROL SYSTEM TO BLINK THE LIGHTS FOR WARNING THE LIGHTS ARE ABOUT TO GO OFF.
2. CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.
3. ALL WIRING FOR LIGHTING CONTROL SYSTEM SHALL BE INSTALLED IN CONDUIT.
4. ALL DEVICES ARE SHOWN TYPICAL, SEE DRAWINGS FOR ACTUAL DEVICE COUNT.
5. PROVIDE SUBMITTAL DRAWINGS SHOWING THE COMPLETE LIGHTING CONTROL SYSTEM (RELAYS, PANELS, SWITCHES, DIMMER RELAYS, AMPLIFIERS, INTERCONNECTING CIRCUITRY, ETC.) SHALL BE SUBMITTED TO THE ENGINEER OF RECORD DURING THE SUBMITTAL REVIEW. SUBMITTALS WILL BE REJECTED WITHOUT FULL DRAWINGS.
6. PROVIDE 8-CHANNEL ASTRONOMIC DIGITAL TIMECLOCK WITH SYSTEM FOR AUTOMATIC LIGHTING CONTROL SCHEDULE OF REQUIRED INTERIOR LIGHTING AUTOMATIC SHUT OFF AND EXTERIOR LIGHTING EVENING ON/OFF SCHEDULE. INTERIOR LIGHTING SHALL FLASH ONE MINUTE PRIOR TO SHUT OFF. SYSTEM SHALL ALLOW LOCAL OVERRIDE OF AUTOMATIC SHUT OFF FOR UP TO 2 HOURS.
7. SYSTEM PROGRAMMING GROUPS, PATTERNS, ETC. SHALL BE CONDUCTED BY CERTIFIED MANUFACTURER'S REPRESENTATIVE SUBJECT TO OWNER'S APPROVAL.
8. PROVIDE 20AMP 120VAC DEDICATED CIRCUIT TO LIGHTING CONTROL PANELS AND TIMECLOCK.
9. ALL PROGRAMMING SHALL BE PROVIDED BY A CERTIFIED MANUFACTURER REPRESENTATIVE PROVIDED AT THE JOBSITE. COORDINATE WITH OWNER FOR FINAL PROGRAMMING REQUIREMENTS AND IMPLEMENT INTO FINAL PROGRAMMING.
10. APPROVED MANUFACTURER'S ARE HUBBELL, EATON, NEXLIGHT, AND N-LIGHT.

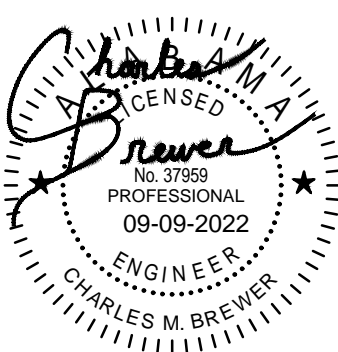


1 LOW VOLTAGE LIGHTING CONTROL DETAIL  
E2.3 NO SCALE

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SHEET TITLE : LIGHTING CONTROLS

MCKEE JOB # : 21.269

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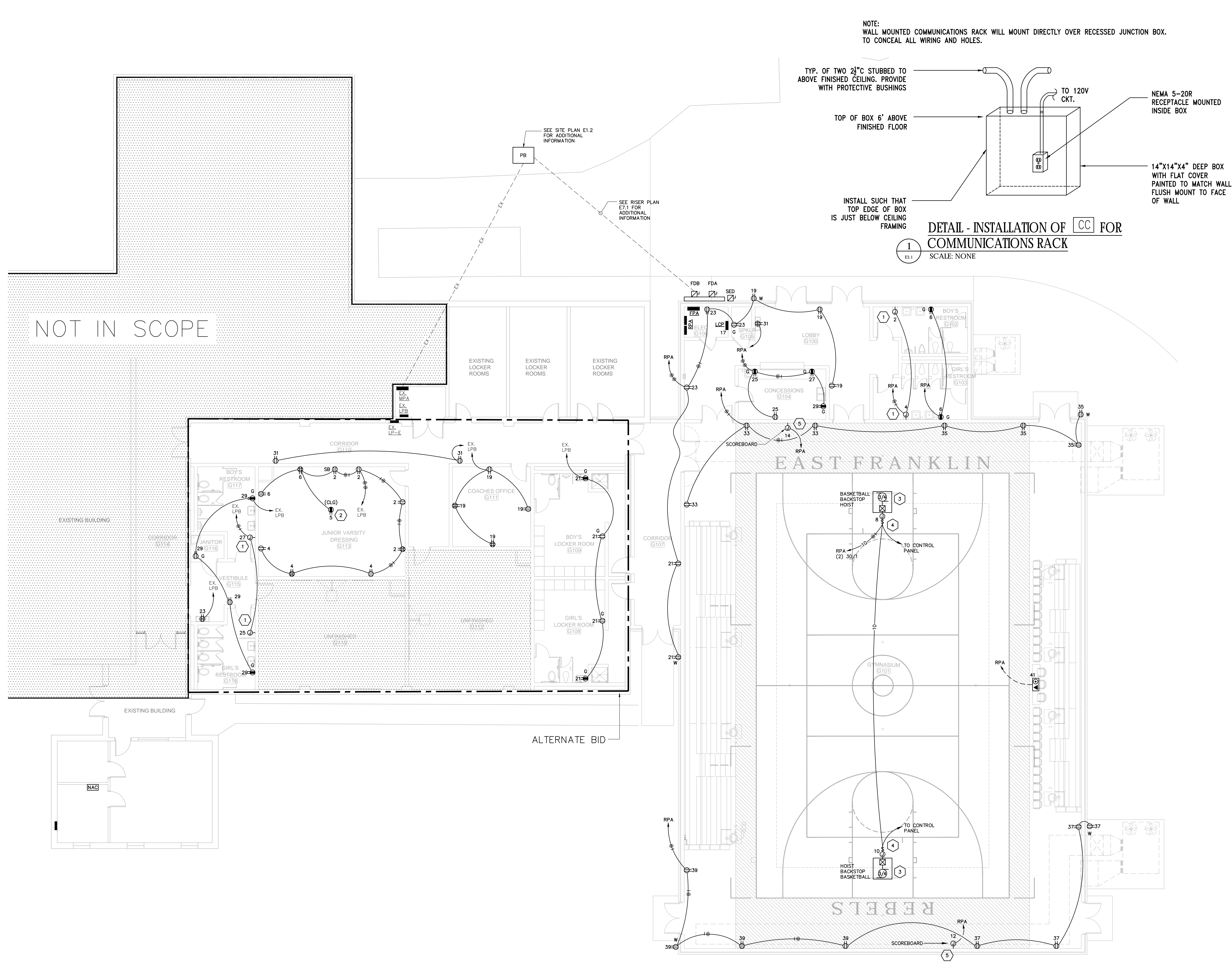
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SHEET NO. : E2.3



NOT IN SCOPE

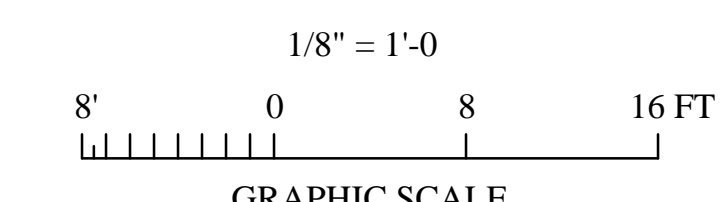
ALTERNATE BID



FLOOR PLAN - POWER  
SCALE: 1/8" = 1'-0"

SHEET NOTES:

- PROVISIONS FOR ELECTRIC HAND DRYER. MOUNT JUNCTION BOX BEHIND PAPER TOWEL DISPENSER AND WALL BLANK OFF. CIRCUIT BREAKERS FEEDING CIRCUITRY SHALL BE SWITCHED OFF AND WIRE DISCONNECTED.
- MOUNT RECEPTACLE IN CEILING AS REQUIRED.
- BASKETBALL BACKSTOP HOIST, CONTROL SWITCH AND LIMIT SWITCHES FURNISHED WITH HOIST. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CONTROL CIRCUITING AND POWER CIRCUITING. VERIFY THE LOCATIONS OF ALL DEVICES, EQUIPMENT AND CIRCUITING REQUIREMENTS PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL PROVIDE 3/4" CONDUIT TO BASKETBALL HOIST CONTROL PANEL.
- POWER FOR SCOREBOARD. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.



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GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA

**McKee and Associates**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET • MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : FLOOR PLAN-  
POWER

MCKEE JOB # : 21.269

DRAWN BY : CMB, SBW

DATE : 9.9.22

REVISED DATE : .

REVISED DATE : .

REVISED DATE : .

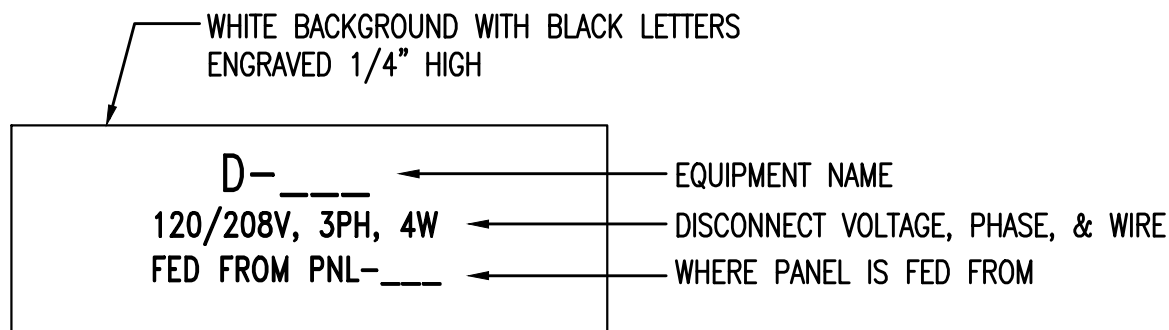
SHEET NO. : **E3.1**





GENERAL NOTES:

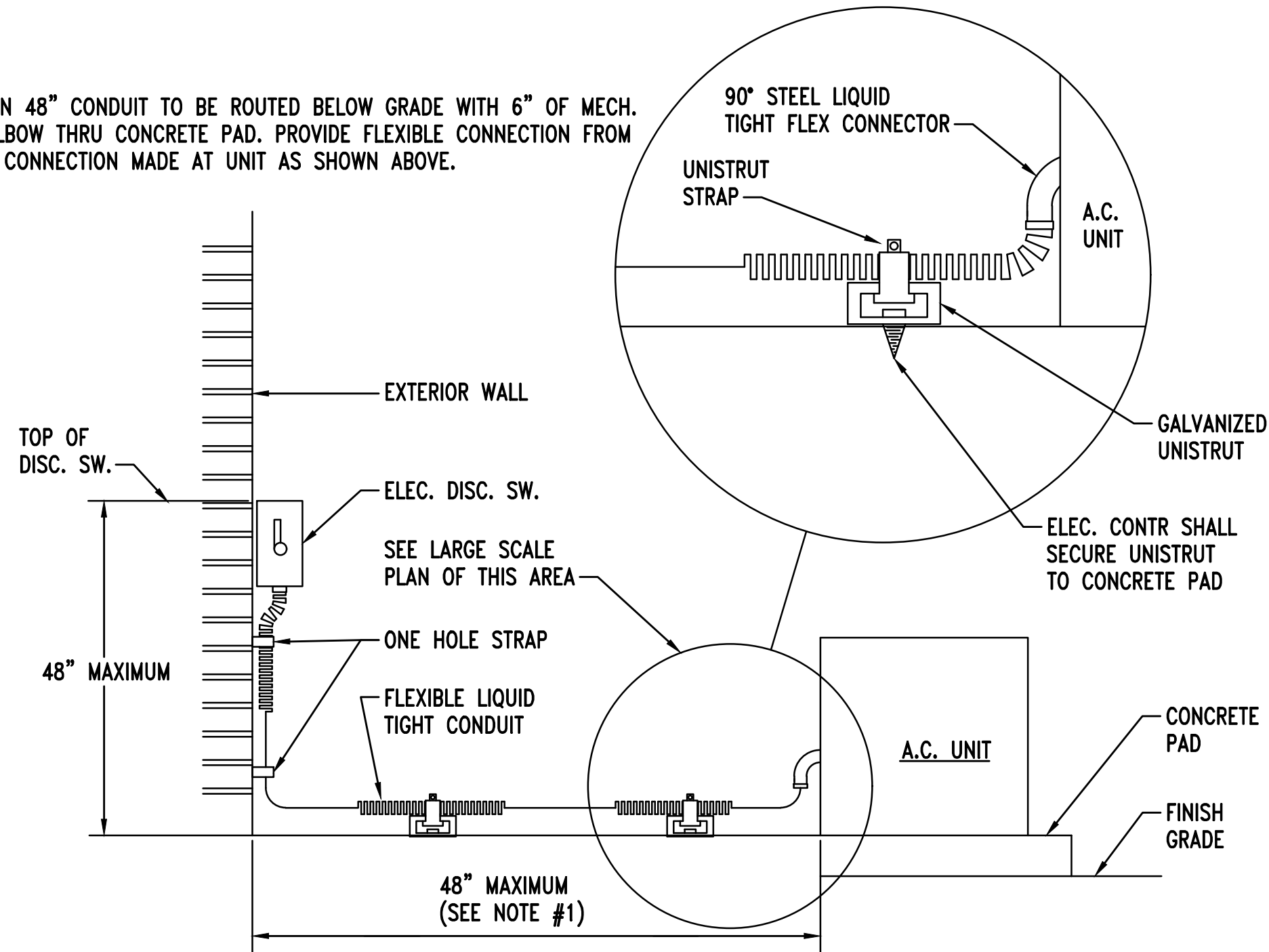
- COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
- MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
- COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
- ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
- CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
- PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
- COORDINATE WITH GENERAL EQUIPMENT SCHEDULES ON THIS SHEET FOR CIRCUITRY OF ALL EQUIPMENT TAGGED ON THIS SHEET.
- SEE DETAIL 1 THIS SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.



1  
E3.3  
DETAIL - TYPICAL DISCONNECT NAMEPLATE  
NO SCALE

NOTE:

- FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.



2  
E3.3  
MECHANICAL UNIT CONNECTION DETAIL  
NO SCALE

SHEET TITLE : EQUIPMENT SCHEDULE AND DETAILS  
MCKEE JOB # : 21.269  
DRAWN BY : CMB, SBW  
DATE : 9.9.22  
REVISED DATE :  
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REVISED DATE :

SHEET NO. : E3.3

GENERAL EQUIPMENT SCHEDULE											
EQUIPMENT MARK:	EQUIPMENT DESCRIPTION:	VOLTAGE/PHASE:	ELECTRICAL CHARACTERISTICS:			DISCONNECT:	FUSE:	HOMERUN:		FEEDER:	
			HP	KW	AMPS			PANEL	CIRCUIT		
DHP-JA	DUCTLESS HP (INDOOR)	208V, 1PH			1.6	TS		NOTE 8		2#12 & 1#12(G)-3/4" C.	
DHO-DA	DUCTLESS HP (OUTDOOR)	208V, 1PH			9.0	30/2/3R	F	FPA	8,10	2#12 & 1#12(G)-3/4" C.	
EF-A1	EXHAUST FAN	120V, 1PH		25		TS	NOTE 7	EX LPB	1	2#12 & 1#12(G)-3/4" C.	
EF-A2	EXHAUST FAN	120V, 1PH		25		TS	NOTE 7	EX LPB	5	2#12 & 1#12(G)-3/4" C.	
EF-A3	EXHAUST FAN	120V, 1PH		25		TS	NOTE 7	RPA	1	2#12 & 1#12(G)-3/4" C.	
EF-A4	EXHAUST FAN	120V, 1PH		25		TS	NOTE 7	RPA	1	2#12 & 1#12(G)-3/4" C.	
EF-B1	EXHAUST FAN	120V, 1PH		10		TS	NOTE 7	RPA	1	2#12 & 1#12(G)-3/4" C.	
EF-C1	EXHAUST FAN	120V, 1PH		30		TS	NOTE 7	EX LPB	3	2#12 & 1#12(G)-3/4" C.	
EF-C2	EXHAUST FAN	120V, 1PH		30		TS	NOTE 7	EX LPB	7	2#12 & 1#12(G)-3/4" C.	
EF-D1	EXHAUST FAN	120V, 1PH		10		TS	NOTE 7	EX LPB	1	2#12 & 1#12(G)-3/4" C.	
EUH-1	ELECTRIC UNIT HEATER	208V, 3PH		3.3 (HEAT)		30/3/1	F	FPA	14,16,18	3#12 & 1#12(G)-3/4" C.	
PHAC-B	PACKAGE HVAC UNIT	208V, 3PH			24.0 FLA	60/3/3R	F	FPA	1,3,5	3#6 & 1#10(G)-1" C.	
PHAC-D	PACKAGE HVAC UNIT	208V, 3PH			22.4 FLA	60/3/3R	F	EX LPB	13,15,17	3#6 & 1#10(G)-1" C.	
PHAC-F	PACKAGE HVAC UNIT	208V, 3PH			24.0 FLA	60/3/3R	F	EX LPB	25,27,29	3#6 & 1#10(G)-1" C.	
PHAC-1	EXISTING PACKAGE HVAC	208V, 3PH			52.0 FLA	100/3/3R	F	FPA	20,22,24	3#4 & 1#8(G)-1 1/4" C.	
PHAC-2	EXISTING PACKAGE HVAC	208V, 3PH			52.0 FLA	100/3/3R	F	FPA	26,28,30	3#4 & 1#8(G)-1 1/4" C.	
RC-1	RE-CIRCULATION PUMP	120V, 1PH	1/6	---	---	---	TS	NOTE 6	RPA	30	2#12 & 1#12(G)-3/4" C.
RC-2	RE-CIRCULATION PUMP	120V, 1PH	1/6	---	---	---	TS	NOTE 6	RPA	32	2#12 & 1#12(G)-3/4" C.
WH-1	WATER HEATER	208V, 1PH	---	4.5	---	30/2/1		RPA	18,20	2#10 & 1#10(G)-3/4" C.	
WH-2	WATER HEATER	208V, 1PH	---	4.5	---	30/2/1		RPA	24,26	2#10 & 1#10(G)-3/4" C.	

NOTES:

1. COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCOUNTED FOR IN THE CONTRACTOR'S BID PRICE.

2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.

3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.

4. (F - FUSED), (NF - NON-FUSED), (TS - MANUAL MOTOR STARTER WITH THERMAL OVERLOAD), (W & WP - WEATHERPROOF), (\*30-AMP" - 30-AMP RATED)

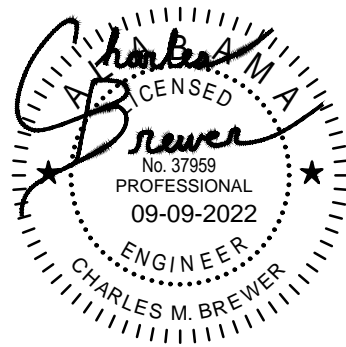
5. NOTE NOT USED.

6. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

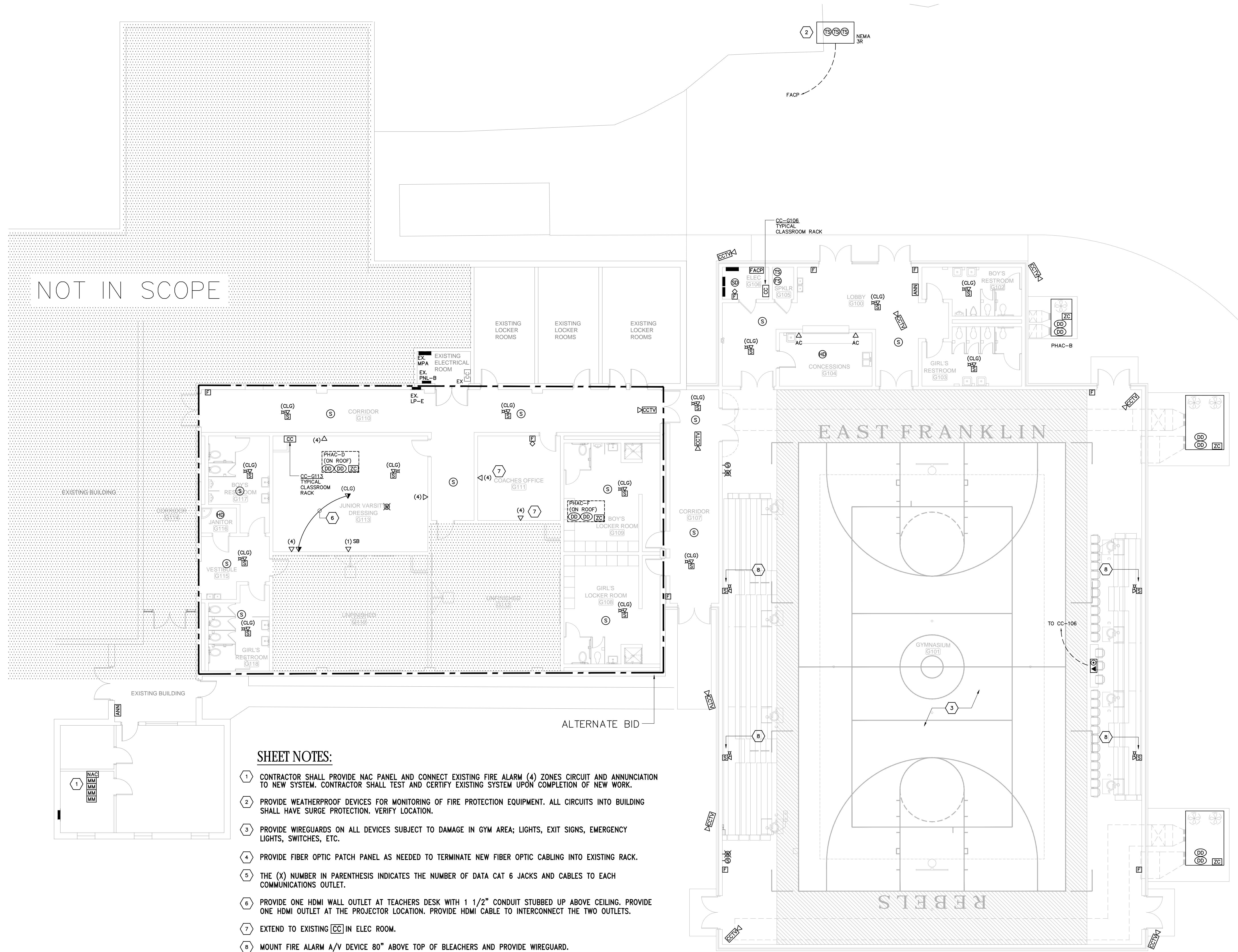
7. CIRCUIT TO SWITCHED 120V LIGHTING CIRCUIT IN SAME ROOM.

8. INDOOR UNIT POWERED BY OUTDOOR UNIT. COORDINATE AND PROVIDE ALL REQUIRED CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.

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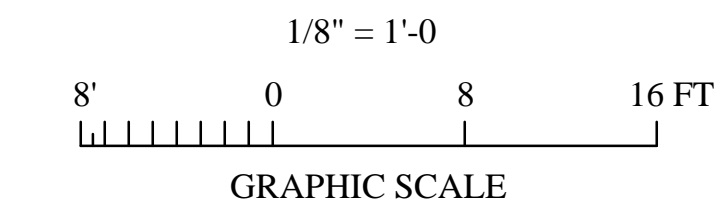
**SHEET NOTES:**

1. CONTRACTOR SHALL PROVIDE NAC PANEL AND CONNECT EXISTING FIRE ALARM (4) ZONES CIRCUIT AND ANNUNCIATION TO NEW SYSTEM. CONTRACTOR SHALL TEST AND CERTIFY EXISTING SYSTEM UPON COMPLETION OF NEW WORK.
2. PROVIDE WEATHERPROOF DEVICES FOR MONITORING OF FIRE PROTECTION EQUIPMENT. ALL CIRCUITS INTO BUILDING SHALL HAVE SURGE PROTECTION. VERIFY LOCATION.
3. PROVIDE WIREGUARDS ON ALL DEVICES SUBJECT TO DAMAGE IN GYM AREA; LIGHTS, EXIT SIGNS, EMERGENCY LIGHTS, SWITCHES, ETC.
4. PROVIDE FIBER OPTIC PATCH PANEL AS NEEDED TO TERMINATE NEW FIBER OPTIC CABLING INTO EXISTING RACK.
5. THE (X) NUMBER IN PARENTHESIS INDICATES THE NUMBER OF DATA CAT 6 JACKS AND CABLES TO EACH COMMUNICATIONS OUTLET.
6. PROVIDE ONE HDMI WALL OUTLET AT TEACHERS DESK WITH 1 1/2" CONDUIT STUBBED UP ABOVE CEILING. PROVIDE ONE HDMI OUTLET AT THE PROJECTOR LOCATION. PROVIDE HDMI CABLE TO INTERCONNECT THE TWO OUTLETS.
7. EXTEND TO EXISTING [CC] IN ELEC ROOM.
8. MOUNT FIRE ALARM A/V DEVICE 80" ABOVE TOP OF BLEACHERS AND PROVIDE WIREGUARD.

**GENERAL NOTES:**

1. ALL CAT6 CABLES TO BE CIRCUITED TO NEAREST CC LOCATION IN SAME ROOM OR SAME BUILDING.

**FLOOR PLAN - AUXILIARY**  
SCALE: 1/8" = 1'-0"



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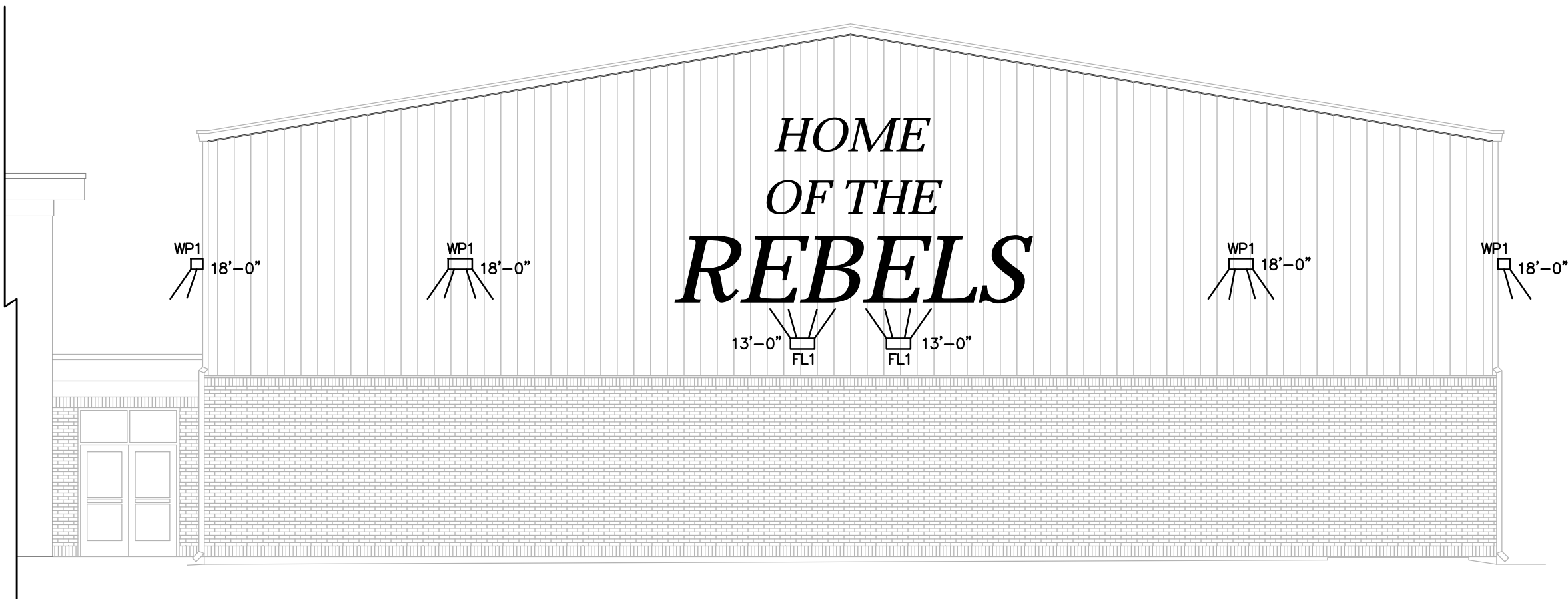


SHEET TITLE :	FLOOR PLAN-AUXILIARY
MCKEE JOB # :	21.269
DRAWN BY :	CMB, SBW
DATE :	9.9.22
REVISED DATE :	.
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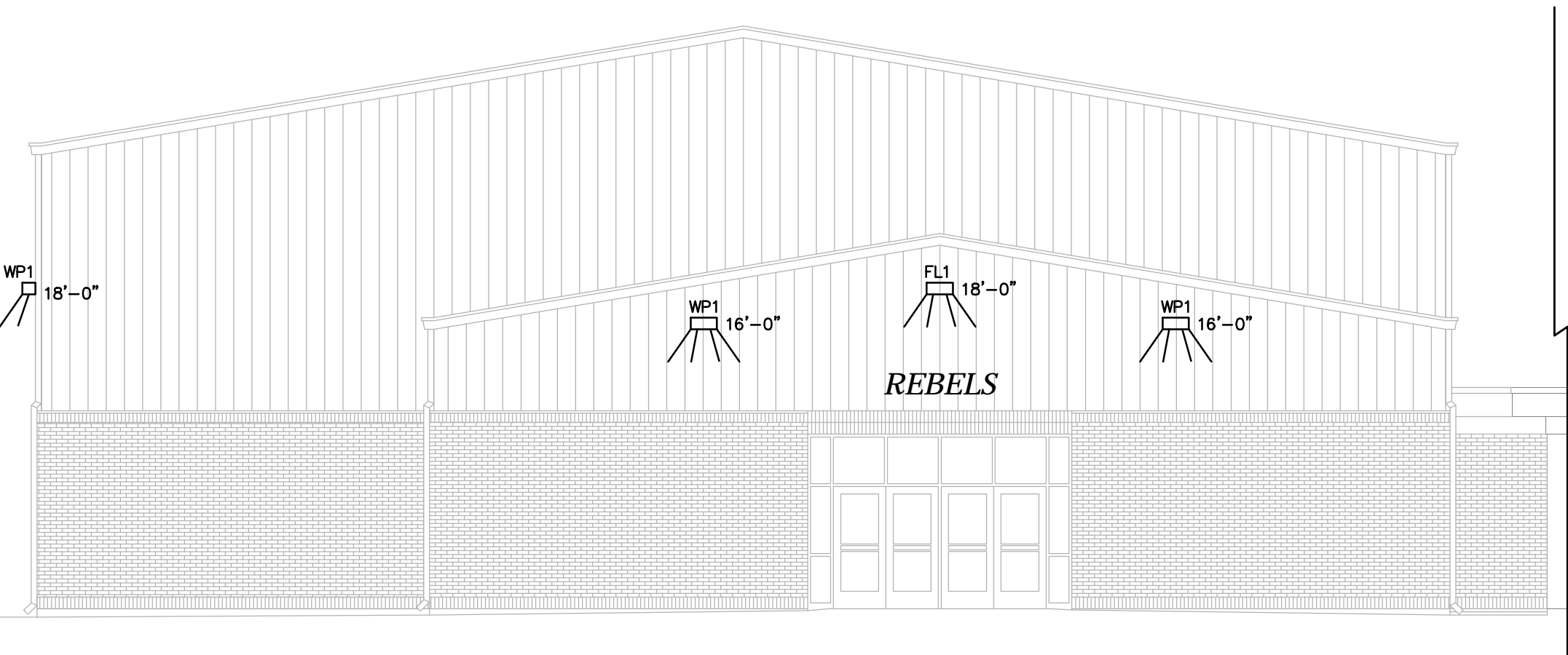
SHEET NO. : **E4.1**

LIGHTING CONTROL PANEL - (LCP)						
RELAY #	PANEL	CIRCUIT #	CIRCUIT VOLTAGE (V)	FUNCTION	TYPE	NOTES
a	RPA	15	120V, 1PH	ON/OFF - EXT. SIGNAGE	LED	SEE NOTE 2 "OL"
b	RPA	15	120V, 1PH	ON/OFF - EXT. LIGHTING	LED	SEE NOTE 2 "NL" & 3
c	RPA	15	120V, 1PH	ON/OFF - EXT. LIGHTING	LED	SEE NOTE 2 "OL"
d	RPA	3	120V, 1PH	ON/OFF - (DIMMING "d")	LED	SEE NOTE 1 & 3
e	RPA	5	120V, 1PH	ON/OFF - (DIMMING "e")	LED	SEE NOTE 1 & 3
f	RPA	7	120V, 1PH	ON/OFF - (DIMMING "e")	LED	SEE NOTE 1 & 3
g	RPA	9	120V, 1PH	ON/OFF - (DIMMING "e")	LED	SEE NOTE 1 & 3
h	RPA	11	120V, 1PH	ON/OFF - (DIMMING "f")	LED	SEE NOTE 1 & 3
i	RPA	13	120V, 1PH	ON/OFF - (DIMMING "f")	LED	SEE NOTE 1 & 3
j				SPARE		
k				SPARE		
m				SPARE		
NOTES:						
1. MANUAL ON						
ASTRONOMICAL CLOCK TURNS LIGHTS OFF AT 12 MIDNIGHT						
2. "NL" PHOTOCELL ON - PHOTOCELL OFF						
"OL" PHOTOCELL ON - ASTRONOMICAL CLOCK						
3. EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF SWITCHING WITH A CONSTANT HOT LEG.						
4. PROVIDE LIGHTING CONTROL PANEL EQUAL TO HUBBELL CX PANEL. PROVIDE ON SITE PROGRAMMING AS NEEDED.						
5. "NL" PHOTOCELL ON - PHOTOCELL OFF						
"OL" PHOTOCELL ON - ASTRONOMICAL CLOCK REDUCES LIGHT BY 50% AT MIDNIGHT (ALTERNATE OFF FOR DRIVERS EVERY OTHER DAY)						

LIGHTING FIXTURE SCHEDULE							
TYPE:	MANUFACTURER NUMBER AND EQUALS:	VOLTAGE:	MOUNTING:	LAMP TYPE:	LAMP QUANTITY:	DESCRIPTION:	
HB24	COLUMBIA LIGHTING NO. PEL24-40MH-FAW-EDU OR PRIOR APPROVED BY LITHONIA OR COOPER	MVOLT	SUSPENDED	L E D.	1 24,320 LM 158 WATTS	PELTON LED HIGH-BAY, INDUSTRIAL 2' LED WITH FROSTED ACRYLIC WIDE LENS. PROVIDE WITH BATTERY PACKS WHERE INDICATED ON PLANS.	
LG44	HUBBELL NO. SRP-22-40VLHE-EDU	MVOLT	RECESSED	L E D.	1 4400 LUMENS 33 WATTS	RECESSED MOUNTED L E D. FLAT PANEL, 2X2' LAY-IN, WHITE FINISH.	
LG48	OR EQUAL BY COOPER OR HE WILLIAMS COLUMBIA NO. SRP24-40LG-EDU	MVOLT	RECESSED	L E D. 4000K	1 4800 LUMEN 42 WATTS	RECESSED MOUNTED, EDGE LIT, L E D. FLAT PANEL, 2'x4' LAY-IN, WHITE FINISH.	
LG72	OR EQUAL BY COOPER OR HE WILLIAMS HUBBELL NO. SRP-24-40VLHE-EDU	MVOLT	RECESSED	L E D. 4000K	1 7200 LUMEN 54 WATTS	RECESSED MOUNTED, EDGE LIT, L E D. FLAT PANEL, 2'x4' LAY-IN, WHITE FINISH.	
L4	OR EQUAL BY COOPER OR HE WILLIAMS COOPER NO. 48SNLED-LDS-608L-LW-UNV-L840-CD-1 COLUMBIA NO. LCL4-40ML-EDU PHILIPS NO. FSS455L840-UNV-DIM	MVOLT	SURFACE	L E D. 4000K	1 5200 LUMEN 46 WATTS	WALL OR SURFACE MOUNTED LINEAR L E D. LUMINAIRE, 4'-0" L., WHITE FINISH WITH FROSTED LENS.	
FL1	COOPER NO. VFS-K-840-S-LED-E1-MST-B2-TMT-TV	MVOLT	WALLMOUNT TENON	LED 4000K	1 5,800 LM 67 WATTS	WALLMOUNTED FLOODLIGHT WITH ADJUSTABLE HEADS AND WALL MOUNT ARM. PROVIDE TOP VISOR AND 15' STEM FOR SIGNAGE LIGHTING. FINISH BY ARCHITECT.	
XA	OR EQUAL BY HUBBELL OR HE WILLIAMS EXITRONIX NO. VEXU-BP-WB-WH-G2 EELP NO. XE-2-R-W-SD H.E. WILLIAMS NO. EXT-R-EM-WHT-SDT-D	MVOLT	CEILING	L E D.	1 3 WATT	CEILING MOUNTED SINGLE FACE EXIT SIGN, PLASTIC BODY WITH RED LETTERS, PROVIDE WITH SELF-CONTAINED EMERGENCY BATTERY AND DIAGNOSTICS, ARROWS AS SHOWN ON DRAWINGS.	
XB	EXITRONIX NO. VEXU-BP-WB-WH-G2 EELP NO. XE-2-R-W-SD H.E. WILLIAMS NO. EXT-R-EM-WHT-SDT-D	MVOLT	CEILING	L E D.	1 3 WATTS	CEILING MOUNTED DOUBLE FACE EXIT SIGN, PLASTIC BODY WITH RED LETTERS, PROVIDE WITH SELF-CONTAINED EMERGENCY BATTERY AND DIAGNOSTICS, ARROWS AS SHOWN ON DRAWINGS.	
XC	LITHONIA NO. LHQM-S-W-3-R-HD-LP08VS ; WIREGUARDS IN GYM AREAS	MVOLT	CEILING/ WALL	LED	1 1000 LUMENS	THERMOPLASTIC 1000-LUMEN COMBO LED EXIT SIGN EGRESS LIGHT. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. COORDINATE COLOR OF SIGNAGE WITH LOCAL REQUIREMENTS. PROVIDE WITH EMERGENCY BATTERY. PROVIDE WIREGUARDS IN GYM.	
XJ	OR PRIOR APPROVED EQUAL BY EMERGH-LITE, MCPHILBEN, OR PRESCOLITE EXITRONIX NO. NPT-HO-W-G2	MVOLT	WALL	LED	1 1000 LUMENS 10 WATTS	WALL MOUNTED, ADJUSTABLE HEAD, LED EMERGENCY EGRESS LIGHT FIXTURE WITH SELF-CONTAINED EMERGENCY BATTERY AND DIAGNOSTICS. PROVIDE WITH WIRE CAGE WHERE INDICATED	
	OR PRIOR APPROVED EQUAL BY HUBBELL AND PHILIPS						
NOTES:							
1. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS OR MAKE CUSTOM COLOR DURING SHOP DRAWING REVIEW. BID ACCORDINGLY.							
2. COORDINATE MOUNTING OF ALL LUMINAIRES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.							
3. PROVIDE EMERGENCY BATTERY BALLAST FOR ALL EMERGENCY TYPE FIXTURES CAPABLE OF 90-MINUTES.							
4. FOR WARRANTY AND LONG TERM SUPPORT FOR OWNER, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER REPRESENTATIVES							
LOCATED IN THE STATE OF ALABAMA. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE ELECTRICAL CONTRACTOR							
SHALL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NON COMPLIANCE WITH THIS REQUIREMENT.							
5. ALL INTERIOR LIGHTS SHALL HAVE 4000K TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.							
6. PROVIDE ALL 0-10V DIMMING BRANCH CIRCUITING REQUIRED.							



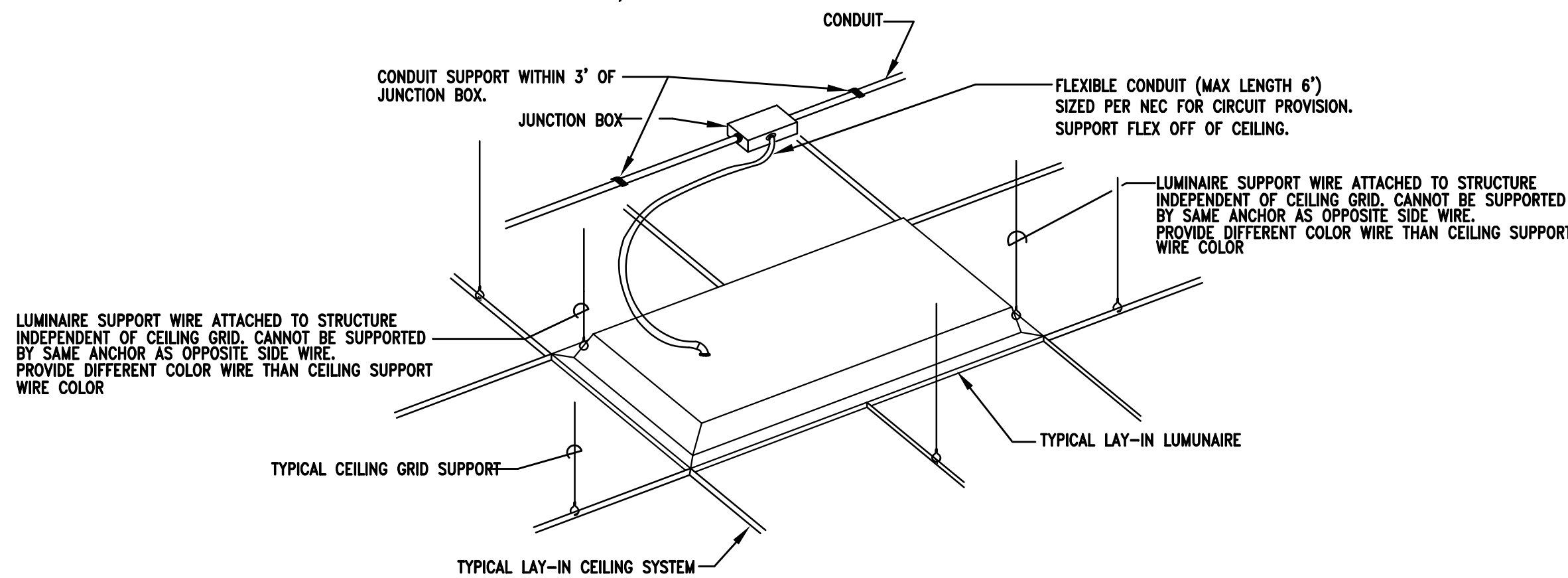
3 ELEVATION DETAIL - EAST EXTERIOR LIGHTING  
ES.1 NO SCALE



4 ELEVATION DETAIL - WEST EXTERIOR LIGHTING  
ES.1 NO SCALE

NOTES:

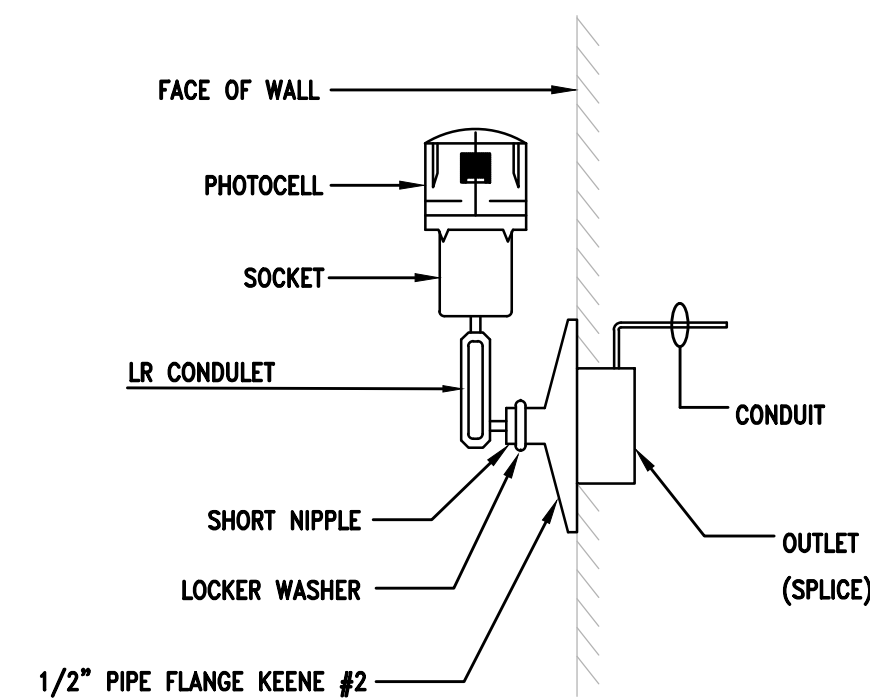
- ALL RECESSED LUMINAIRES SHALL BE WIRED FROM A JUNCTION BOX AS SHOWN, INCLUDING LUMINAIRES IN A CONTINUOUS ROW. NO WIRING THRU FIXTURES. NO MORE THAN TWO LUMINAIRES SHALL BE CIRCUITED TO ONE JUNCTION BOX.
- LUMINAIRE SUPPORT WIRES TO BE A MINIMUM OF #14 GAGE PRE-STRAINED GALVANIZED WIRE ATTACHED AT OPPOSITE CORNERS. LUMINAIRE SHALL BE SUPPORTED TO THE STRUCTURE INDEPENDENT OF THE CEILING GRID.
- CONDUCTORS IN FLEXIBLE CONDUIT FROM JUNCTION BOX TO LUMINAIRE SHALL CONTAIN AN INSULATED GREEN GROUND WIRE, WITH NEUTRAL AND PHASE CONDUCTORS REQUIRED FOR THE CIRCUITING AND SWITCHING REQUIREMENTS INDICATED.
- JUNCTION BOXES SHALL BE ACCESSIBLE AND LOCATED WITHIN 1'-6" ABOVE LAY-IN CEILING INSTALLATION. PROVIDE PENDANT ALL-THREAD RODS AND/OR STRUT ASSEMBLIES TO MEET THIS REQUIREMENT WHERE DROP CEILING IS MORE THAN 1'-6" FROM STRUCTURE.
- CONTRACTOR SHALL INSTALL ALL T-BAR SAFETY CLIPS TO GRID. IF FIXTURE DOES NOT COME WITH GRID SAFETY CLIPS, THEN THE CONTRACTOR SHALL PROVIDE SUPPORT WIRES ON ALL FOUR SIDES.



2 DETAIL - TYPICAL LAY-IN LUMINAIRE INSTALLATION  
ES.1 NO SCALE

NOTES:

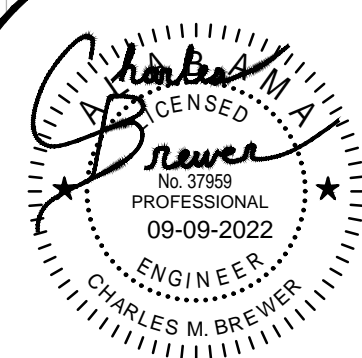
- PAINT CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
- COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
- PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.



1 DETAIL - INSTALLATION OF PHOTO-CELL  
ES.1 NO SCALE

LUMINAIRE NOTES:

- ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
- LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
- ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION.
- ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
- SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
- ALL FLUORESCENT LUMINAIRES SHALL BE PROVIDED WITH 3500K COLOR TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
- PROVIDE ALL DUAL SWITCHED LUMINAIRES WITH DUAL BALLAST.
- LUMINAIRES WITH TWO SUB-SCRIPTS AN "a" AND "b" SHALL HAVE OUTSIDE TWO LAMPS CONTROLLED BY SWITCH OR RELAY POLE "a" AND INSIDE LAMP OR LAMPS CONTROLLED BY SWITCH OR RELAY POLE "b". SIMILARLY FOR OTHER SETS OF SUB-SCRIPTS SUCH AS "c, d, e, f, etc."
- ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
- COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.
- CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- ALL EXIT SIGNS AND LUMINAIRES DESIGNATED AS EMERGENCY SHALL BE PROVIDED WITH A MINIMUM 1100 LUMEN EMERGENCY BATTERY BALLAST CAPABLE OF 90 MINUTES OF ILLUMINATION.



SHEET TITLE : LUMINAIRE SCHEDULE AND DETAILS

MCKEE JOB # : 21.269

DRAWN BY : CMB, SBW

DATE : 9.9.22

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GAF22-190

SHEET NO. : E5.1

GYM ADDITION  
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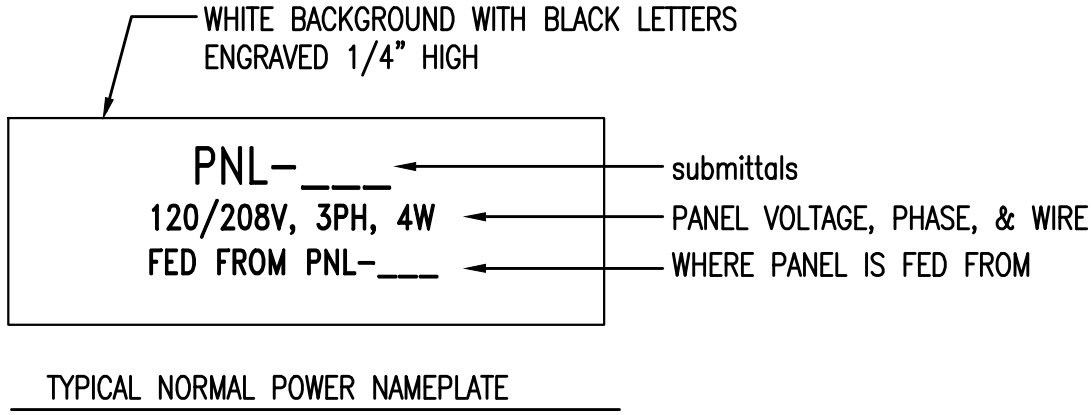


PANEL FPA														
TYPE: 600 AMP MAIN LUGS			AIC: 22,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE					
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY		
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C			
PHAC-B	2,880			50		1	2	225	14,489	8,802		RPA		
-		2,880				3	4					-		
-			2,880		3	5	6	3			10,996	-		
SPARE	0			50		7	8	20	1,196			DHP-OA		
-		0				9	10	2		1,196		-		
-			0		3	11	12					BUSSED SPACE		
SPARE	0			40		13	14	20	1,125			EUHA		
-		0				15	16			1,125		-		
-			0		3	17	18	3			1,125	-		
BUSSED SPACE						19	20	70	6,240			EXISTING PHAC - 1		
BUSSED SPACE						21	22			6,240		-		
BUSSED SPACE						23	24	3			6,240	-		
BUSSED SPACE						25	26	70	6,240			EXISTING PHAC - 2		
BUSSED SPACE						27	28			6,240		-		
BUSSED SPACE						29	30	3			6,240	-		
BUSSED SPACE						31	32	70	0			SPARE		
BUSSED SPACE						33	34			0		-		
BUSSED SPACE						35	36	3			0	-		
BUSSED SPACE						37	38					BUSSED SPACE		
BUSSED SPACE						39	40					BUSSED SPACE		
BUSSED SPACE						41	42					BUSSED SPACE		
SUB TOTAL (VA)	2,880	2,880	2,880						29,290	23,603	24,601			
TOTAL LOAD PHASE A:		32,170 (VA)				NOTES:								
TOTAL LOAD PHASE B:		26,483 (VA)				1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.								
TOTAL LOAD PHASE C:		27,481 (VA)				2. PROVIDE ARC FAULT LABEL PER DETAIL DETAILS.								
TOTAL LOAD:		86,134 (VA) =	239 AMPS											

PANEL - RPA														
TYPE: 225 AMP MAIN LUGS			AIC: 22,000 AMPERES			MOUNTED: SURFACE - NEMA 1			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE					
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY		
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C			
INTERIOR LIGHTING	1,043			20	1	1	2	20	1,000			HAND DRYER		
GYM LIGHTING		948		20	1	3	4	20	1	1,000		HAND DRYER		
GYM LIGHTING			948	20	1	5	6	20	1		400	RECEPT		
GYM LIGHTING	948			20	1	7	8	30	1	1,650		BASKETBALL HOIST		
GYM LIGHTING		948		20	1	9	10	30	1		1,650	BASKETBALL HOIST		
GYM LIGHTING			948	20	1	11	12	20	1		1,000	SCOREBOARD		
GYM LIGHTING	948			20	1	13	14	20	1	1,000		SCOREBOARD		
EXTERIOR LIGHTING		656		20	1	15	16	20	1		1,000	SOUND SYSTEM OUTLET		
LCP - LTG CONTROLS			600	20	1	17	18	30			2,250	WH-1		
RECEPT	600			20	1	19	20		2	2,250		-		
RECEPT		600		20	1	21	22	20	1		200	RECEPT		
RECEPT			600	20	1	23	24	30			2,250	WH-2		
RECEPT	400			20	1	25	26		2	2,250		-		
RECEPT		200		20	1	27	28	20	1		200	RECEPT		
RECEPT			200	20	1	29	30	20	1		600	RC-1		
WATER COOLER	1,000			20	1	31	32	20	1	600		RC-2		
RECEPT		600		20	1	33	34	30			0	SPARE		
RECEPT			800	20	1	35	36		2		0	0		
RECEPT	800			20	1	37	38	30		0		SPARE		
RECEPT		800		20	1	39	40		2		0	-		
GYM FLOOR RECEPT			400	20	1	41	42	30			0	SPARE		
SPARE	0			30		43	44		2	0		-		
SPARE		0			2	45	46	30			0	SPARE		
SPARE			0	20	1	47	48		2		0	-		
SPARE	0			20	1	49	50	30		0		SPARE		
SPARE		0		20	1	51	52		2		0	-		
SPARE			0	20	1	53	54	20	1		0	SPARE		
SPARE	0			20	1	55	56	20	1	0		SPARE		
SPARE		0		20	1	57	58	20	1		0	SPARE		
SPARE			0	20	1	59	60	20	1		0	SPARE		
SPARE	0			20	1	61	62	20	1	0		SPARE		
SPARE		0		20	1	63	64	20	1		0	SPARE		
SPARE			0	20	1	65	66	20	1		0	SPARE		
SPARE	0			20	1	67	68	20	1	0		SPARE		
SPARE		0		20	1	69	70	20	1		0	SPARE		
SPARE			0	20	1	71	72	20	1		0	SPARE		
BUSSED SPACE						73	74					BUSSED SPACE		
BUSSED SPACE						75	76					BUSSED SPACE		
BUSSED SPACE						77	78					BUSSED SPACE		
BUSSED SPACE						79	80					BUSSED SPACE		
BUSSED SPACE						81	82					BUSSED SPACE		
BUSSED SPACE						83	84					BUSSED SPACE		
SUB TOTAL (VA)	5,739	4,752	4,496							8,750	4,050	6,500	SUB TOTAL (VA)	
TOTAL LOAD PHASE A:		14,489 (VA)				NOTES:								
TOTAL LOAD PHASE B:		8,802 (VA)				1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.								
TOTAL LOAD PHASE C:		10,996 (VA)				2. PROVIDE ARC FAULT LABEL PER DETAIL.								
TOTAL LOAD:		34,287 (VA) =	95 AMPS											

PANELBOARD NOTES:

- PANELBOARDS SHALL BE INSTALLED AND ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
- ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
- PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
- FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
- THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY INTO THE PANEL, SO AS TO MINIMIZE CONDUCTOR FILL IN THE ENCLOSURE. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
- PROVIDE THE PROPER SIZE AND QUANTITY OF CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) ON BUSES AND CIRCUIT BREAKERS FOR THE RESPECTIVE SIZE AND NUMBER OF CONDUCTORS INDICATED.
- ALL FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
- PANELBOARDS SHALL BE FULLY RATED. SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.
- ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO POTENTIAL HAZARDS OF ARC FLASH.
- ALL PANELBOARDS SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
- COMPLY WITH NEC ARTICLE 408.4. PROVIDE A TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. FOR LIGHTING AND RECEPTACLE CIRCUITS, INCLUDE THE ROOM NUMBER IN THE CIRCUIT DESCRIPTION ON THE DIRECTORY.
- EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL 1 ON THIS SHEET. ENGINEER WILL NOT PROVIDE FINAL ACCEPTANCE UNTIL THESE NAMEPLATES ARE PROVIDED.
- MANUFACTURER THAT WILL BE PROVIDING PANELBOARDS ON THIS PROJECT SHALL BE RESPONSIBLE FOR PERFORMING A SHORT CIRCUIT ANALYSIS AND TIME-CURRENT COORDINATION (ICC) STUDY, WHICH DEMONSTRATES THAT THE UPSTREAM OVERCURRENT PROTECTIVE DEVICE NEAREST TO THE FAULT LOCATION WILL OPERATE BEFORE OVERCURRENT PROTECTIVE DEVICES WHICH ARE FURTHER UPSTREAM (I.E. SELECTIVE COORDINATION). INCLUDE COORDINATION STUDY IN THE SHOP DRAWING PACKAGE FOR THE PANELBOARDS FOR REVIEW BY THE ENGINEER OF RECORD. AIC RATINGS MAY BE LOWERED BASED ON STUDY.
- ALL CIRCUIT BREAKERS 1200 AMPS AND UP SHALL COMPLY WITH NEC ARTICLE 240.87 ARC ENERGY REDUCTION.

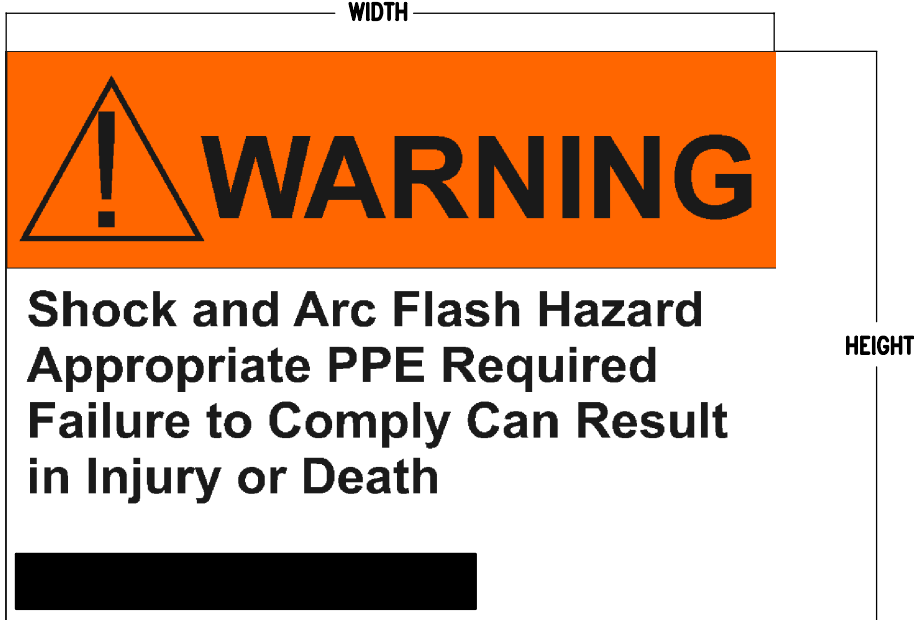


1  
E5.2

DETAIL - TYPICAL PANELBOARD NAMEPLATE

NO SCALE

2  
E5.2



NOTES:

- PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
- THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
- THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
- THE SIZE OF THE LABEL SHALL BE:  
EQUIPMENT TYPE HEIGHT WIDTH  
INDOOR 4" 6"  
OUTDOOR 4" 6"

ARC FLASH WARNING LABELS

NO SCALE



FIRE ALARM SYSTEM NOTES:

1. THE FIRE ALARM SYSTEM SHALL BE A COMPLETE SUPERVISED DETECTION AND ALARM SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
2. INSTALLATION SHALL COMPLY WITH THE ADA, NEC, NFPA, AND UL.
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE GROUNDED.
4. THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CLASS "B" SYSTEM AND AS FOLLOWS:  
PRIMARY POWER – 120V AC  
NOTIFICATION APPLIANCE CIRCUITS (NAC) – 24V DC  
SIGNALING LINE CIRCUIT (SLC) – 24V DC
5. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE SECURED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
6. A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
8. THE CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE AUDIBILITY CALCULATIONS INDICATING COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 72 AND THE IBC. THE CONTRACT DRAWINGS INDICATE A MINIMUM DESIGN REQUIRED TO COMPLY WITH APPLICABLE CODES. HOWEVER, SINCE DEVICES VARY FROM MANUFACTURER TO MANUFACTURER THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ANY/ALL ADDITIONAL DEVICES AS REQUIRED TO PROVIDE AUDIBILITY AND VISIBILITY LEVELS THAT COMPLY WITH APPLICABLE SECTIONS OF NFPA 72 AND IBC.
9. PROVIDE ADDITIONAL 100% SPARE CAPACITY IN FIRE ALARM CONTROL PANEL FOR FUTURE USE.
10. PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM SYSTEM IN ALARM MODE, PER NFPA GUIDELINES AT A MINIMUM. BATTERIES SHALL BE SIZED TO HANDLE THE FUTURE CAPACITY.
11. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PROVIDE IP DIALER FOR MONITORING OF THE FIRE ALARM SYSTEM.
12. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". PROVIDE ALL FIRE ALARM CONDUIT WITH 3" WIDE RED STRIPE EVERY 10' FOR LENGTH OF RUN.
13. PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER, STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
14. FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
15. IN ADDITION TO THE DEVICES INDICATED ON THE PLANS THE CONTRACTOR SHALL PROVIDE A SMOKE DETECTOR LOCATED WITHIN 5 FEET OF EACH FIRE ALARM NOTIFICATION APPLIANCE PANEL.
16. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL 120 VOLT CIRCUITS NEEDED TO MAKE THE FIRE ALARM SYSTEM A COMPLETE FUNCTIONAL SYSTEM.
17. PROVIDE VOICE EVACUATION PER IBC SECTION 907 AND ALL SECTIONS OF THE INTERNATIONAL FIRE CODE.
18. "CLG" DENOTES A CEILING MOUNTED DEVICE AND "WP" DENOTES WEATHERPROOF DEVICE..
19. SEE STANDARD MOUNTING HEIGHT INSTRUCTIONS ON DETAILS (2) THIS SHEET.
20. CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE SMOKE DETECTOR REPORTS AT THE FINAL TESTING OF THE FIRE ALARM SYSTEM TO SHOW THAT ALL SMOKE DETECTORS ARE LESS THAN 10% DIRTY. ANY SMOKE DETECTOR GREATER THAN 10% DIRTY SHALL BE CLEANED OR REPLACED UNTIL VALUE IS LESS THAN 10%.

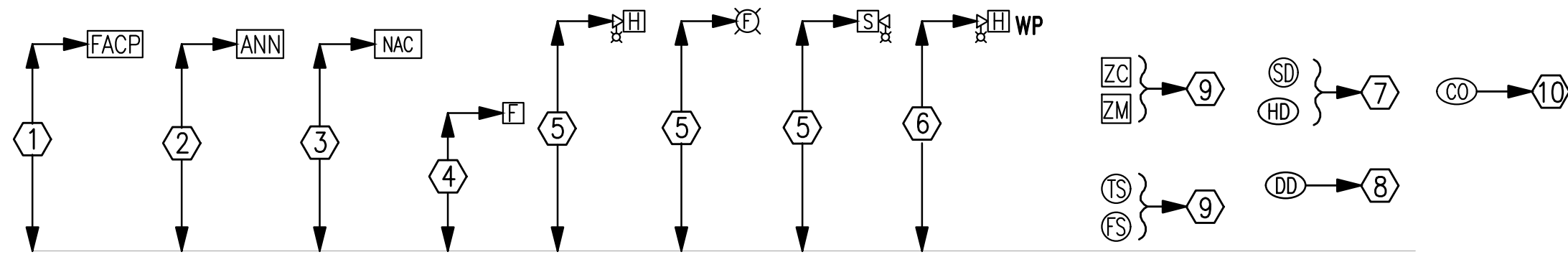
EMERGENCY RADIO SYSTEM:

PROVIDE A TWO-WAY EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM UTILIZING A BI-DIRECTIONAL AMPLIFIER (BDA) SOLUTION AS REQUIRED BY THE AHJ. THE BDA SOLUTION MUST MEET ALL OF THE REQUIREMENTS OF NFPA, IFC AND IBC WHICH INCLUDE REQUIREMENTS FOR THE INSTALLATION, PERFORMANCE AND STRENGTH OF EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEMS (ERES) FOR COMMERCIAL FACILITIES. MOST SPECIFICALLY THE INTERNATIONAL FIRE CODE (IFC-SECTION 510), NFPA 1221 (2016 EDITION) AND IBC 201 (SECTION 916).

THE INSTALLATION COMPANY OF THE BDA SOLUTION SHALL MAINTAIN A FCC LICENSE OR BE "FACTORY TRAINED" BY THE BDA SOLUTION MANUFACTURER. PROOF OF LICENSE SHALL BE PROVIDED ALONG WITH BDA SOLUTION (SPECIFICATION SHEETS, ETC.) AND BUILDING SPECIFIC BDA SOLUTION DESIGN, IN YOUR FIRE ALARM SUBMITTAL PACKAGE TO THE FIRE ALARM ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

THE BDA SOLUTION MUST BE SUPERVISED BY THE BUILDING FIRE ALARM SYSTEM AND REPORT SIGNALS VIA THE FIRE ALARM SYSTEM TO THE FIRE ALARM CENTRAL STATION MONITORING COMPANY IF A TROUBLE WITH THE BDA SOLUTION EXISTS. CERTIFICATION OF COMPLETION AND TESTING (INCLUDING TEST RESULTS) OF BDA SOLUTION SHALL BE PROVIDED IN CONJUNCTION WITH FIRE ALARM COMPLETION CERTIFICATION.

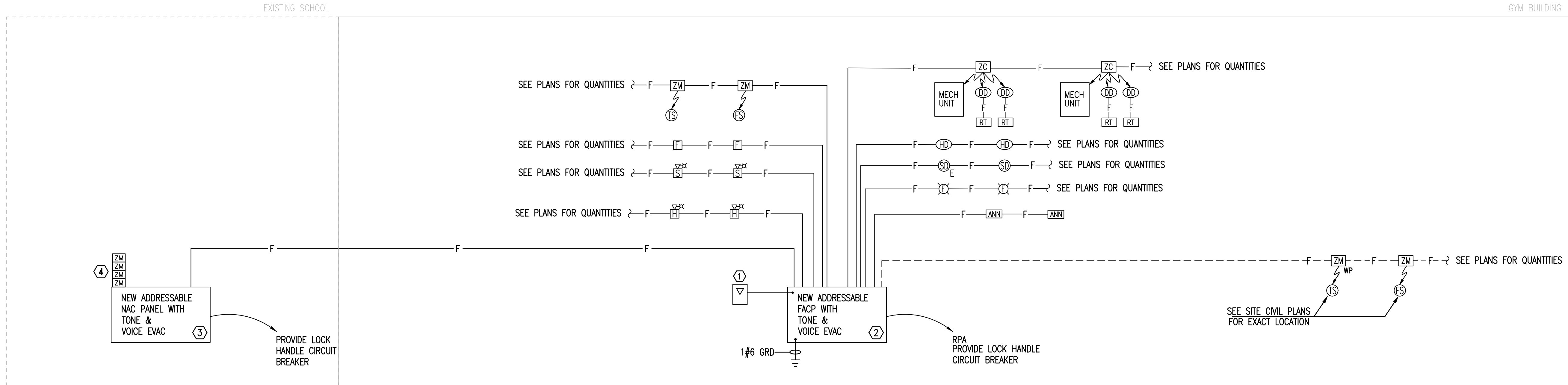
- ① MOUNT FIRE ALARM ENCLOSURE WITH THE TOP OF THE CABINET 72" ABOVE THE FINISHED FLOOR OR CENTER THE CABINET AT 63", WHICHEVER IS LOWER.
- ② MOUNT ANNUNCIATOR WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER OF THE PANEL AT 63", WHICHEVER IS LOWER. FLUSH MOUNT ANNUNCIATOR UNLESS OTHERWISE NOTED.
- ③ REMOTE POWER SUPPLIES AND AUXILIARY FIRE ALARM PANELS. LOCATE THE PANEL OR CABINET WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER THE PANEL AT 63", WHICHEVER IS LOWER. DO NOT LOCATE THESE PANELS ABOVE CEILINGS OR WHERE INACCESSIBLE BY A PERSON STANDING ON THE FINISHED FLOOR OF THE SPACE.
- ④ MOUNT STATIONS SO THAT THEIR OPERATING HANDLES ARE BETWEEN 42" AND 48" ABOVE THE FINISHED FLOOR. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER HANDLE HEIGHT.
- ⑤ ALL WALL MOUNTED AUDIO/VISUAL DEVICES SHALL BE MOUNTED SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE THE FINISHED FLOOR. WHERE LOW CEILING HEIGHTS DO NOT PERMIT MOUNTING AT A MINIMUM OF 80" AFF, VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER LENS HEIGHT.
- ⑥ WEATHER PROOF APPLIANCES INSTALLED OUTDOORS SHALL BE UL LISTED FOR OUTDOOR USE. MOUNT SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE FINISHED FLOOR. FOR WEATHERPROOF APPLIANCES MOUNTED AT FIRE DEPARTMENT CONNECTION (FDC), COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN FOR MOUNTING HEIGHT.
- ⑦ SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. IF DETECTOR HEADS ARE INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP, PROTECTIVE COVERS MUST BE IN PLACE TO PROTECT DETECTOR HEADS FROM PARTICULATE DAMAGE. DETECTORS LOCATED ON THE WALL SHALL HAVE THE TOP OF THE DETECTOR AT LEAST 4" AND NOT MORE THAN 12" BELOW THE CEILING. INSTALL SMOKE DETECTORS NO CLOSER THAN 3 FEET FROM AIR HANDLING SUPPLY AIR DIFFUSERS OR RETURN AIR OPENINGS. LOCATE DETECTORS NO CLOSER THAN 12" FROM ANY PART OF A LIGHTING FIXTURE.
- ⑧ DUCT SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. DETECTOR HEADS INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP SHALL BE REPLACED. DUCT DETECTORS ARE TO BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- ⑨ ADDRESSABLE MODULES SHALL BE INSTALLED LESS THAN 3-FEET FROM THE DEVICE BEING CONTROLLED OR MONITORED. ORIENT THE DEVICE MOUNTING FOR BEST MAINTENANCE ACCESS. LABEL ALL ADDRESSABLE MODULES AS TO THEIR FUNCTION.
- ⑩ MOUNT WITHIN 5'-0" OF FURNACE DISCHARGE REGISTER.



2 STANDARD MOUNTING HEIGHTS/INSTRUCTIONS  
E6.1 NO SCALE

SHEET NOTES:

- ① COORDINATE DIALER WITH SCHOOL IT DEPT. PROVIDE CAT6 OUTLET AT FACP EXTENDED TO NEAREST CC.
- ② PROVIDE SURGE SUPPRESSION ON ON ALL INCOMING AND OUTGOING CABLES WHERE THEY ENTER OR EXIT THE FACILITY. SURGE SUPPRESSION WILL BE REQUIRED FOR EACH CABLE.
- ③ CAPTURE EXISTING ANNUNCIATION HORN/STROBE CIRCUIT AND CONNECT CIRCUITS TO NEW NAC PANEL.
- ④ CAPTURE EXISTING ZONE INITIATION CIRCUITS AND CONNECT TO NEW MONITOR MODULES.



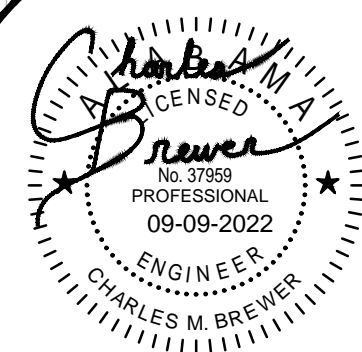
1 FIRE ALARM RISER DIAGRAM - GYM BUILDING  
E6.1 NO SCALE

SHEET TITLE : FIRE ALARM AND AND INTERCOM RISER DIAGRAMS  
MCKEE JOB # : 21.269  
DRAWN BY : CMB, SBW  
DATE : 9.9.22  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

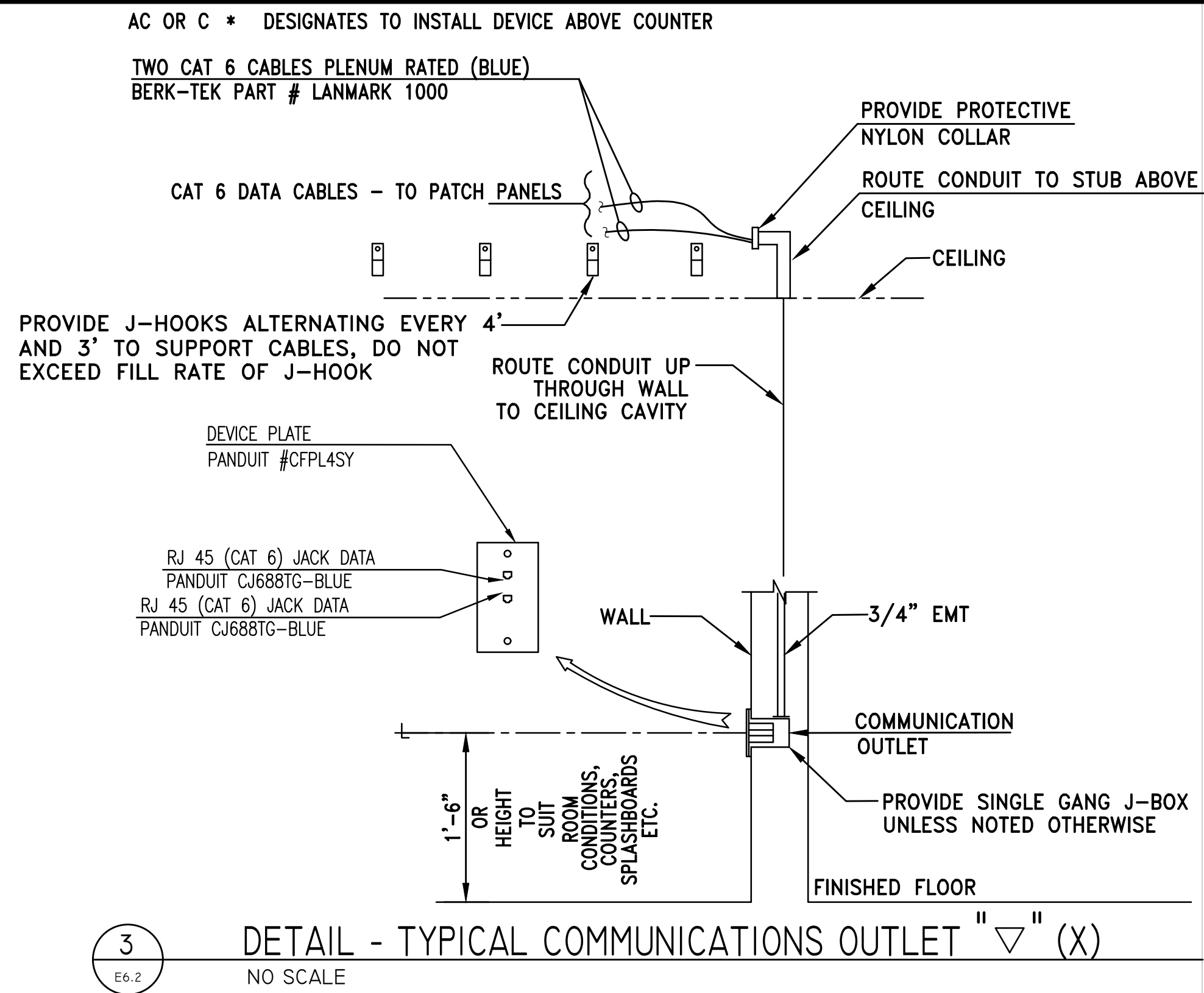
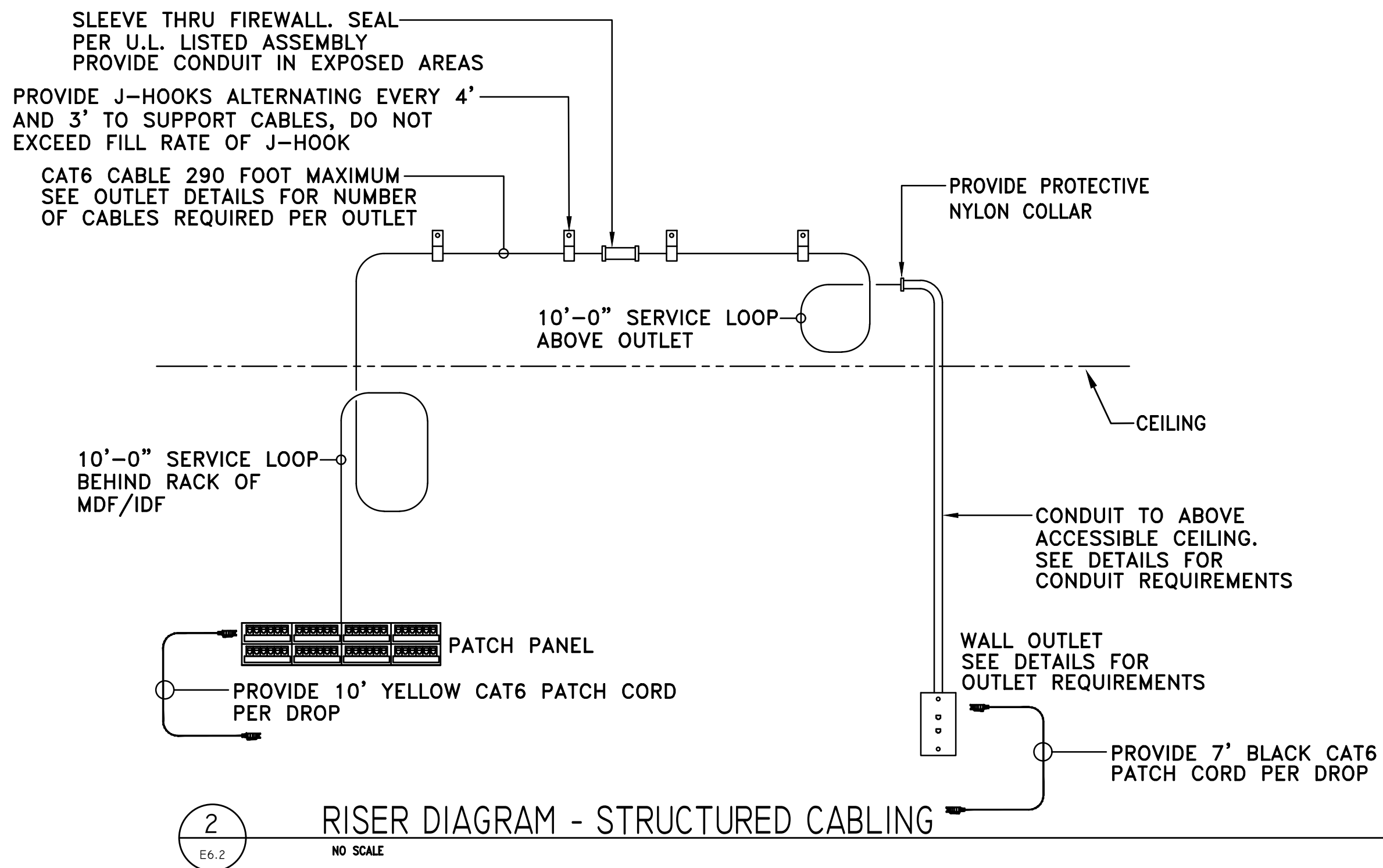
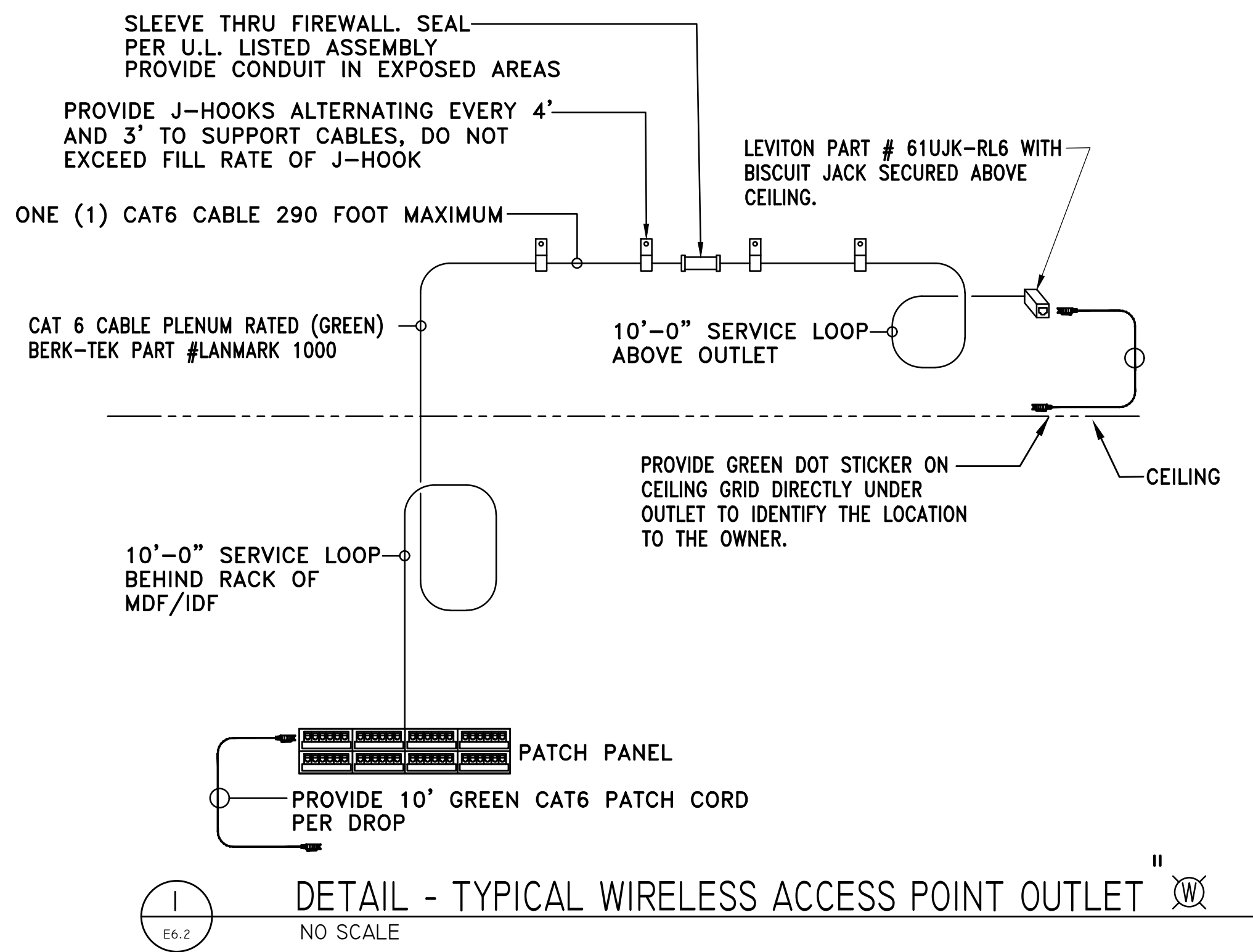
SHEET NO. : E6.1

GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA

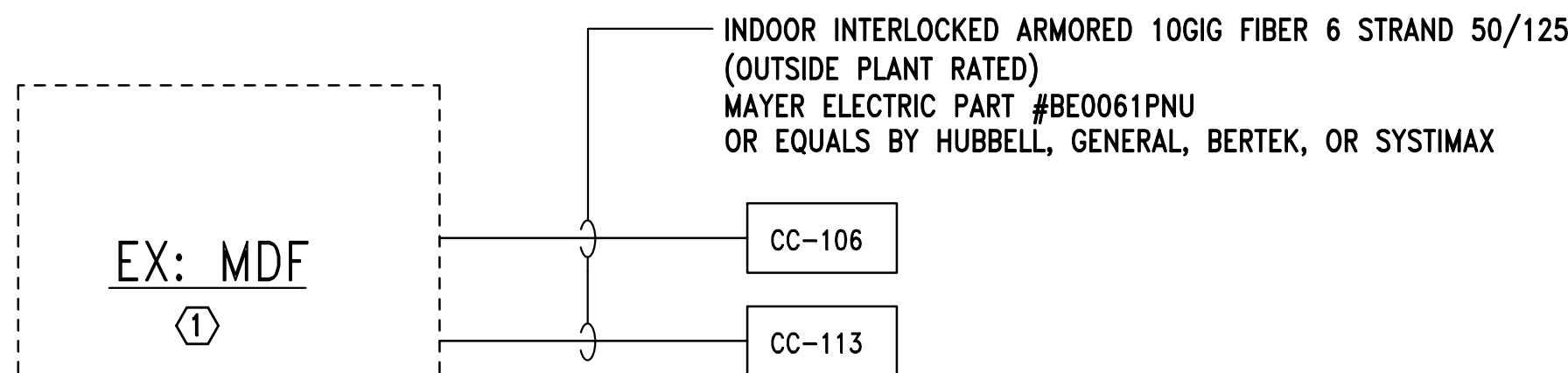
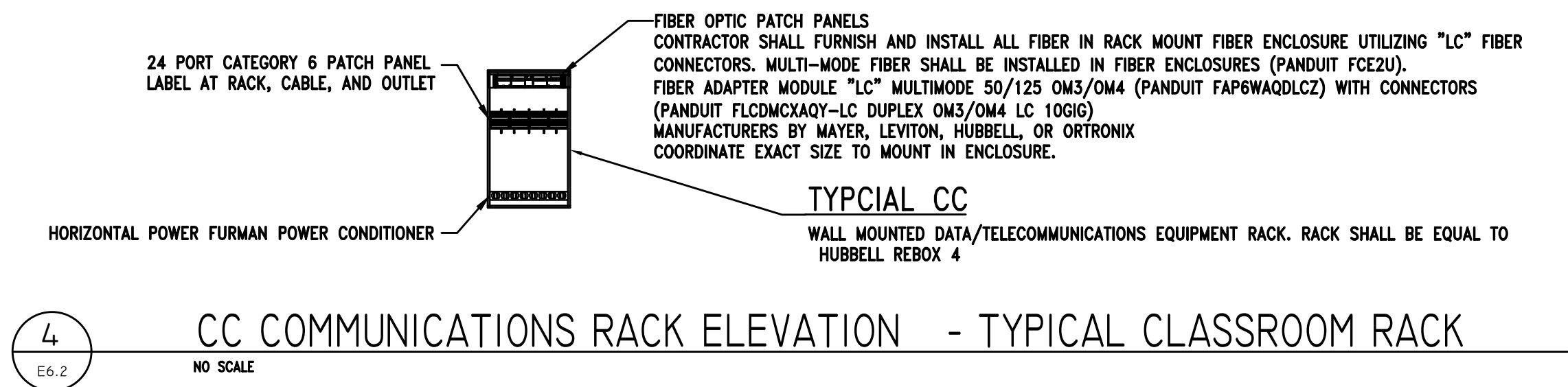
MCKEE and ASSOCIATES  
ARCHITECTS, INC.  
631 SOUTH HULL STREET • MONTGOMERY, ALABAMA 36104 (334) 834-9933







NOTE:  
CONTRACTOR SHALL PROVIDE ONE (1) CAT 6 PATCH CORD IN MDF/IDF/CBB FOR EACH HORIZONTAL COPPER CABLE INSTALLED IN CONTRACT. PROVIDE 50% OF THE PATCH CORDS AS ONE FOOT AND PROVIDE THE OTHER 50% AS THREE FOOT.



#### DETAIL NOTES:

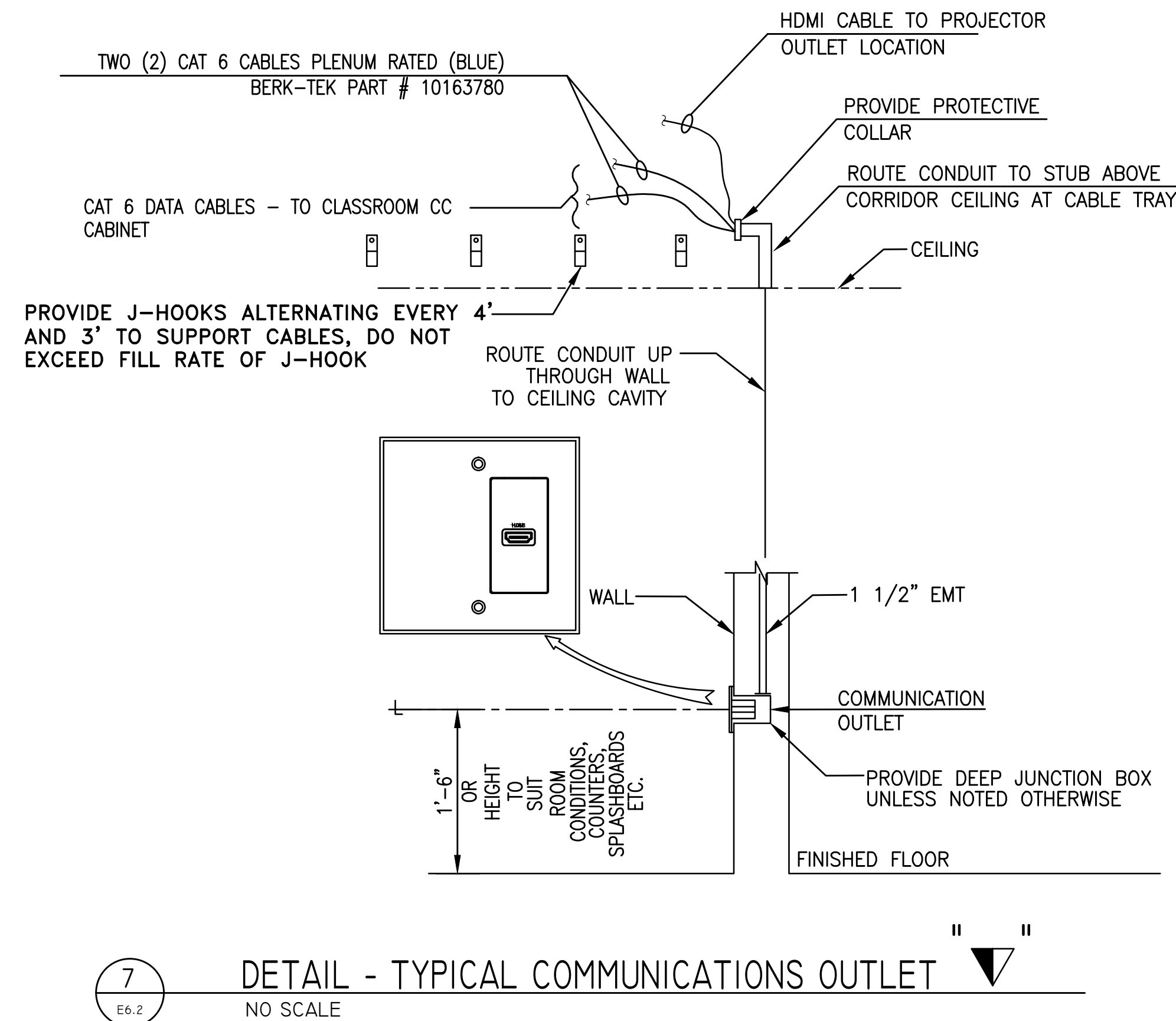
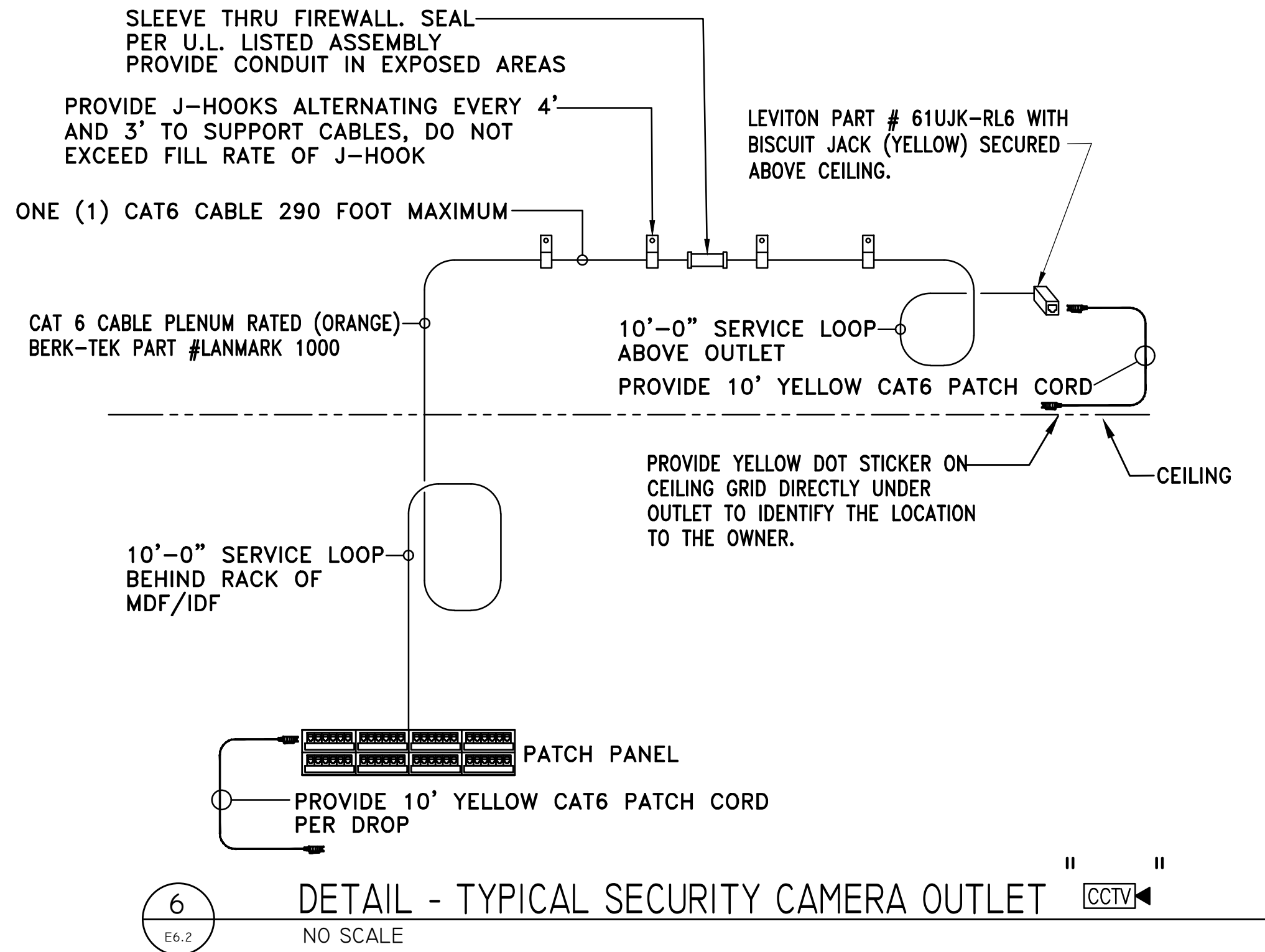
- ① PROVIDE FIBER OPTIC PATCH PANEL AS NEEDED TO TERMINATE NEW FIBER OPTIC CABLING INTO EXISTING MDF RACK.

NOTE:  
CONTRACTOR SHALL PROVIDE ONE (1) CAT 6 PATCH CORD IN MDF/IDF/CBB FOR EACH HORIZONTAL COPPER CABLE INSTALLED IN CONTRACT. PROVIDE 50% OF THE PATCH CORDS AS ONE FOOT AND PROVIDE THE OTHER 50% AS THREE FOOT.

#### GENERAL NOTES:

- ALL CONDUIT SHALL STUB ABOVE ACCESSIBLE CEILING. PROVIDE PROTECTIVE PLASTIC COLLAR AT STUB AND PULLSTRING.
- COORDINATE AND MOUNT COMMUNICATIONS OUTLETS WITHIN 6" OF CORRESPONDING POWER RECEPTACLE.
- COORDINATE ALL AUXILIARY SYSTEMS WITH THEIR CORRESPONDING RISER DIAGRAMS.

\* NOTE: EXTERIOR CAMERAS PROVIDE SINGLE GANG JUNCTION BOX WITH 3/4" CONDUIT STUBBED TO ABOVE INTERIOR CEILING. COORDINATE EXTERIOR CAMERA KEYSTONE LOCATION WITH OWNER PRIOR TO INSTALLATION



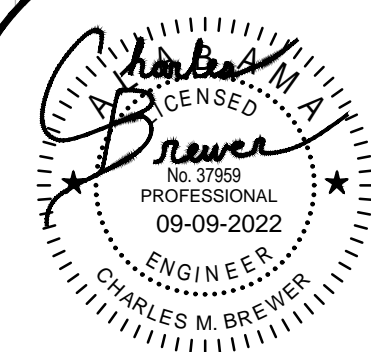
#### CAT6 CABLE COLOR CODING

DATA	BLUE CAT6
WIRELESS ACCESS	GREEN CAT6
SECURITY CAMERA	YELLOW CAT6

GYM ADDITION TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA

MCKEE and ASSOCIATES  
ARCHITECTS, INC.

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SHEET TITLE : COMMUNICATIONS DETAILS & NOTES

MCKEE JOB # : 21.269

DRAWN BY : CMB, SBW

DATE : 9.9.22

REVISED DATE :

REVISED DATE :

REVISED DATE :

**GA** Gunn & Associates, P.C.  
Consulting Engineers  
3102 Highway 14 Millbrook, AL 36054  
Tel: 334-285.1273  
1200 Providence Park, Suite 200 Birmingham, AL 35242  
GAF22-190

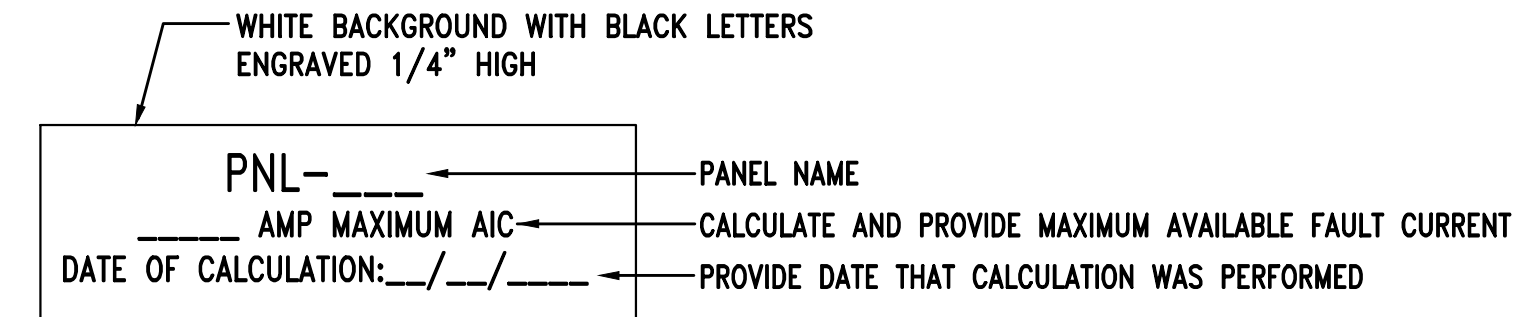
SHEET NO. : E6.2

POWER RISER DIAGRAM NOTES:

1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING. CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASED ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS, ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
5. PROVIDE 4" CONCRETE HOUSEKEEPING PAD WITH 1" CHAMFER FOR ALL FLOOR MOUNTED TRANSFORMERS AND SWITCHBOARDS.
6. COORDINATE WITH GROUNDING DETAILS ON SHEET E7.02 FOR ALL THE DIFFERENT TYPE GROUNDING REQUIREMENTS.
7. ALL UNDERGROUND SECONDARY FEEDERS SHALL BE A MINIMUM OF 36" BELOW GRADE TO THE TOP OF THE DUCT BANK.
8. ALL UNDERGROUND PRIMARY FEEDERS SHALL BE A MINIMUM OF 48" BELOW GRADE TO THE TOP OF THE CONDUIT.
9. CONTRACTOR SHALL PROVIDE A FULL SIZE COPY OF THE AS-BUILT POWER RISER DIAGRAM FRAMED BEHIND PLEXIGLASS SCREWED TO THE WALL NEAR MAIN SERVICE PANEL.

NOTES:

1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.

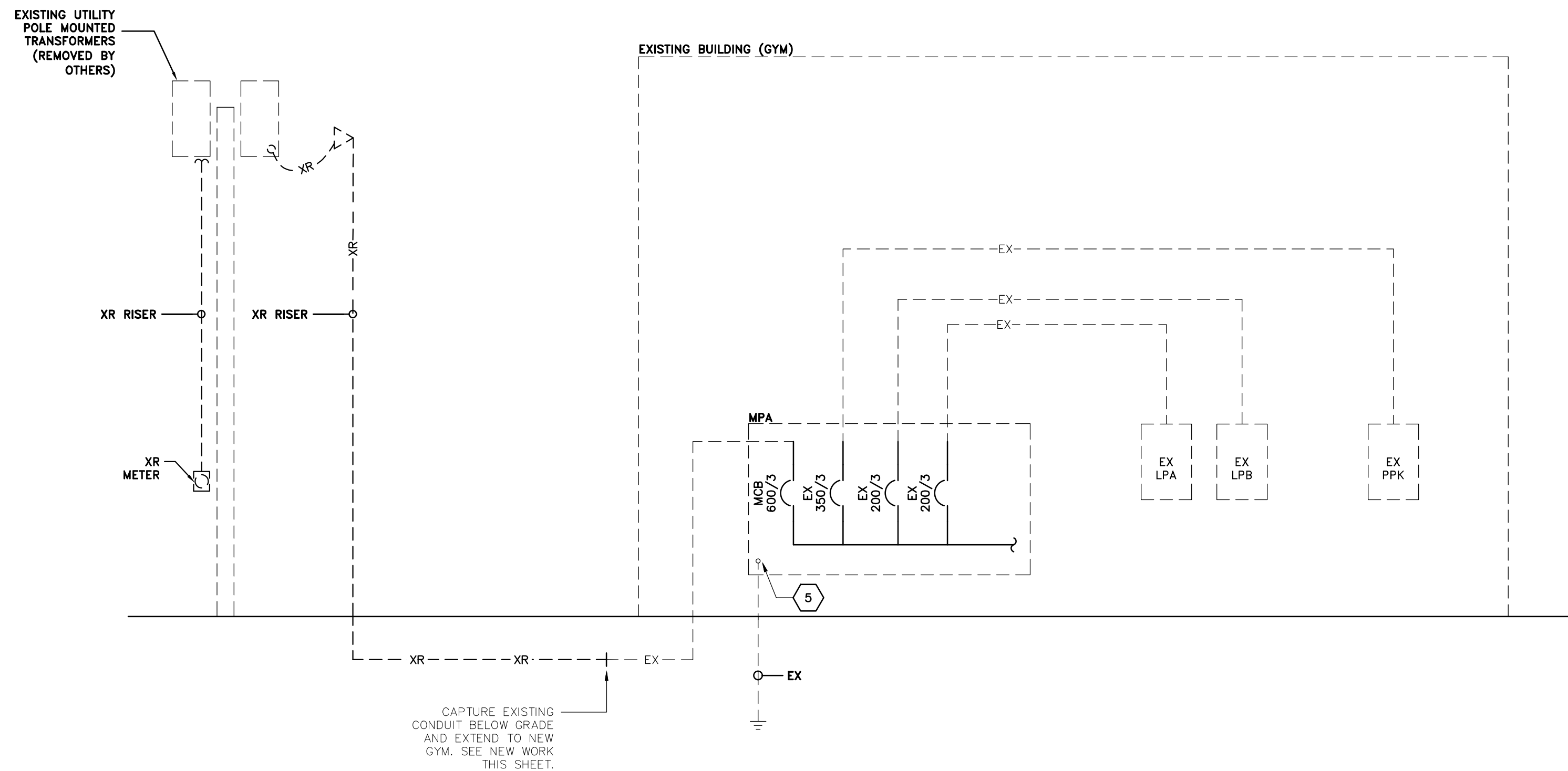


TYPICAL SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

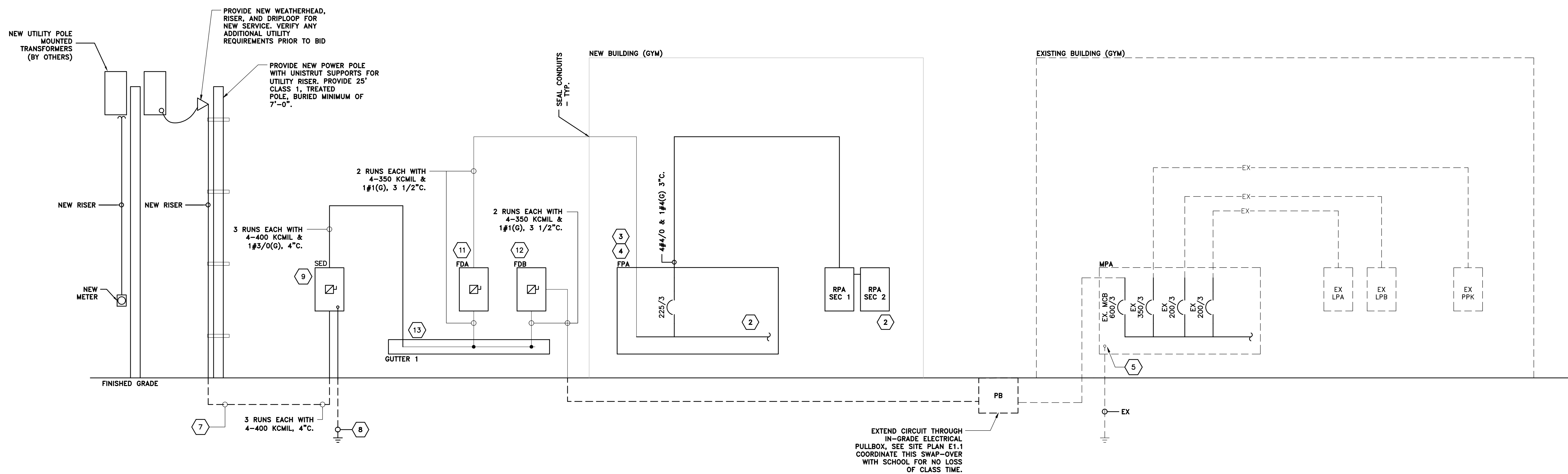
DETAIL - SERVICE ENTRANCE FAULT CURRENT NAMEPLATE  
NO SCALE

SHEET NOTES:

1. PROVIDE NEW TRANSFORMER PAD FOR NEW UTILITY TRANSFORMER. ELECTRICAL CONTRACTOR TO COORDINATE SHUTDOWNS AND ANY ADDITIONAL ITEMS WITH UTILITY. COORDINATE WITH SCHOOL OFFICIALS A MIN. OF 2 WEEKS PRIOR FOR ALL OUTAGES REQUIRED.
2. SEE PANEL SCHEDULES FOR ADDITIONAL BREAKER COORDINATION.
3. EXISTING MPA - 600 AMP, 120/208V, 3PH., 4W., PANELBOARD, MAIN CIRCUIT BREAKER, 42,000 AIC.
4. SEE SERVICE ENTRANCE NAMEPLATE DETAIL THIS SHEET.
5. DISCONNECT SERVICE BONDING JUMPER BETWEEN NEUTRAL AND GROUND. NEW BOND ESTABLISHED IN NEW GUTTER 1. SEE GROUNDING DETAILS SHEET E7.2.
6. METER PROVIDED BY UTILITY COMPANY. ELECTRICAL CONTRACTOR TO PROVIDE METER CONDUIT PER UTILITY COMPANY SPECIFICATIONS.
7. INSTALL UNDERGROUND SECONDARY CONDUITS AS INDICATED ON THE SITE ELECTRICAL PLAN.
8. PROVIDE GROUNDING PER DETAIL ON SHEET E7.2.
9. SED - SERVICE ENTRANCE DISCONNECT, 1000 AMP, 120/208V, 3PH., 4W., FUSIBLE, OUTDOOR RATED, U.L. SERVICE ENTRANCE RATED.
10. COORDINATE REQUIREMENTS WITH LOCAL UTILITY AND PROVIDE NEMA 3R CT CABINET FOR UTILITY METERING.
11. FDA - FUSED DISCONNECT "A", 600 AMP, 120/208V, 3PH., 4W., FUSIBLE, OUTDOOR RATED.
12. FDB - FUSED DISCONNECT "B", 600 AMP, 120/208V, 3PH., 4W., FUSIBLE, OUTDOOR RATED.
13. GUTTER 1 - PROVIDE SCREW COVER, GASKETED, NEMA 3R OUTDOOR GUTTER. MINIMUM 8'-0" W X 1'-0" D X 1'-0" H. PROVIDE INSULATED POLARIS BLOCKS FOR CONNECTIONS OF CONDUCTORS AND COPPER BUS BAR FOR GROUNDING CONDUCTORS. SEE GROUND BAR DETAIL SHEET E7.2.



3 RISER DIAGRAM POWER DISTRIBUTION - DEMOLITION  
NO SCALE



4 RISER DIAGRAM POWER DISTRIBUTION - NEW WORK  
NO SCALE

GYM ADDITION  
TO  
EAST FRANKLIN JUNIOR HIGH SCHOOL  
FOR THE  
FRANKLIN COUNTY BOARD OF EDUCATION  
PHIL CAMPBELL, ALABAMA

MCKEE and ASSOCIATES  
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SHEET TITLE : RISER DIAGRAM AND NOTES

MCKEE JOB # : 21.269

DRAWN BY : CMB, SBW

DATE : 9.9.22

REVISED DATE :

REVISED DATE :

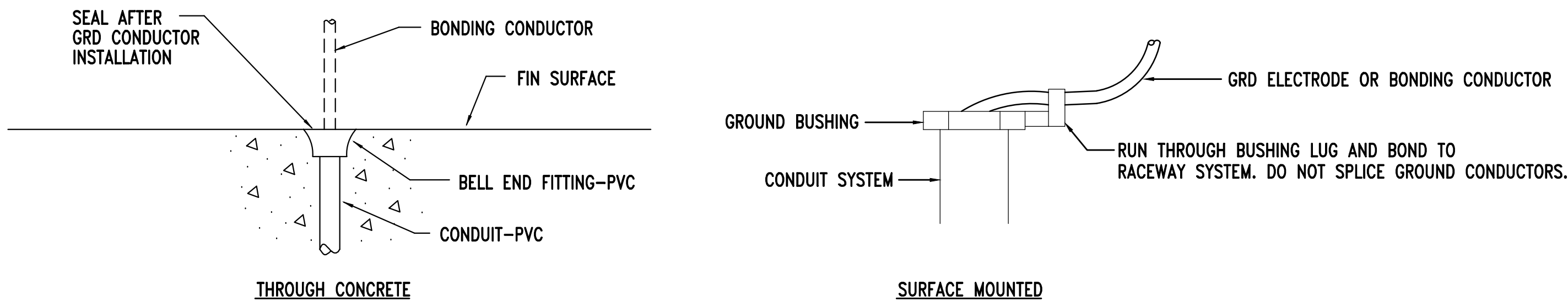
REVISED DATE :

SHEET NO. : E7.1

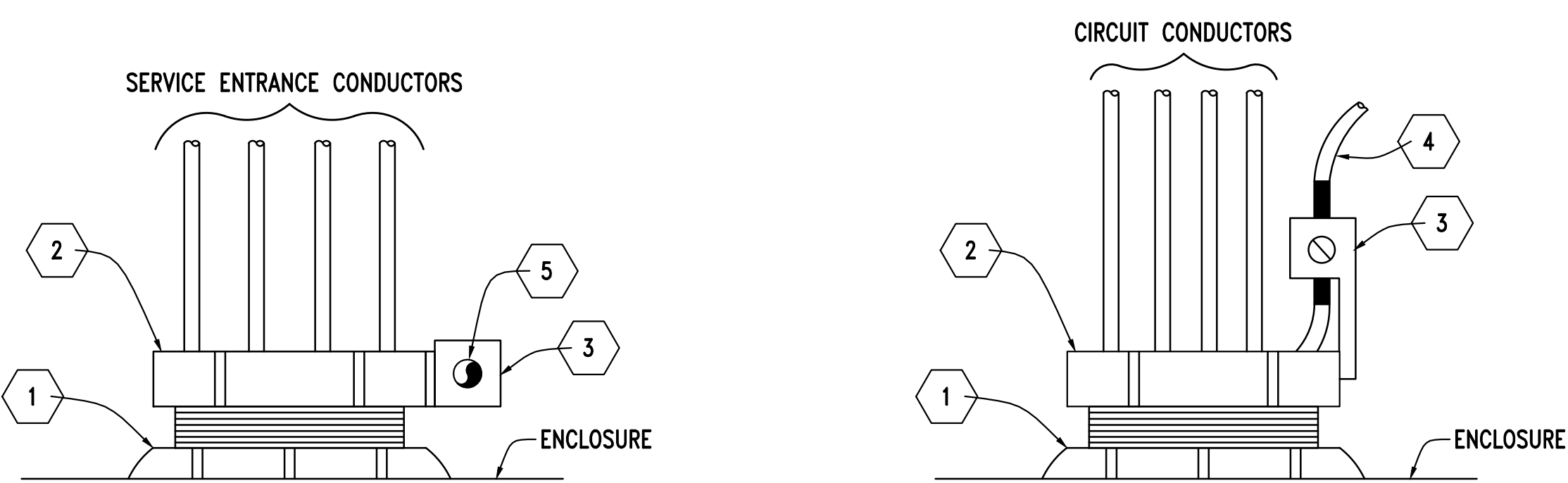


NOTES

1. ALL GROUND ELECTRODE CONDUCTORS, SYSTEM BONDING CONDUCTORS, ETC., RUN SEPARATELY SHALL BE PROTECTED BY A CONDUIT SYSTEM.
2. ALL SYSTEM GROUNDING OR BONDING CONDUCTORS SHALL GENERALLY BE ENCLOSED BY A GRC CONDUIT. PROVIDE GROUND BUSHINGS ON EACH END AND BOND CONDUCTORS TO RACEWAY SYSTEM.
3. SYSTEM BONDING CONDUCTORS THAT PENETRATE CONCRETE SLABS SHALL BE ENCLOSED BY A PVC CONDUIT. PROVIDE BELL END FITTING ON EACH END AND SEAL THOSE TERMINATING AT A STUB-UP SHALL BE FLUSH WITH FLOOR.



2 DETAIL - TYPICAL GROUND CONDUCTOR IN CONDUIT SYSTEM  
E7.2 NO SCALE



FOR SERVICE ENTRANCE CONDUITS

FOR FEEDER AND/OR BRANCH CIRCUITS

DETAIL NOTES

- 1 LOCK-NUT ASSEMBLIES
- 2 METAL GROUNDING BUSHING
- 3 COPPER GROUND LUG
- 4 COPPER GROUND CONDUCTOR. REMOVE INSULATION AT BUSHING, RUN THROUGH BUSHING LUG AND BOND TO RACEWAY SYSTEM. DO NOT SPLICE OR TAP.
- 5 CONTINUOUS COPPER GROUND CONDUCTOR FROM GROUND BUS THROUGH EACH BUSHING. DO NOT SPLICE OR TAP.

GROUNDING AND BONDING INSTALLATION NOTES

1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC, NESC, IEEE, ANSI AND UL STANDARDS.
2. ALL DIMENSIONING INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
3. THE PURPOSE OF THE GROUNDING AND BONDING SYSTEM IS TO ESTABLISH ALL EQUIPMENT ENCLOSURES, NON-CURRENT CARRYING METALLIC PORTIONS OF THE ELECTRICAL DISTRIBUTION SYSTEM, METAL PIPING, METAL BUILDING FRAME, ETC., AT A ZERO POTENTIAL RELATIVE TO THE EARTH GROUND AND PROVIDE FOR A SAFE, LOW IMPEDANCE RETURN PATH FOR GROUND-FAULT CURRENT. THIS SHALL BE ACCOMPLISHED IN THE FOLLOWING MANNER:
  - a. PROVIDE A SOLIDLY GROUND SECONDARY SYSTEM.
  - b. INTER-CONNECT ALL GROUND BUSES AND POINTS IN THE SYSTEM WITH A COPPER GRD CONDUCTOR (BUS) SYSTEM.
  - c. ALL METALLIC RACEWAYS SHALL BE UL APPROVED AND MADE-UP TIGHT AT ALL COUPLINGS AND TERMINATIONS.
  - d. ALL GROUND CONDUCTORS IN CIRCUITS SHALL BE CONTAINED WITHIN THE SAME RACEWAY AS CURRENT CARRYING CONDUCTORS.
  - e. ALL SPLICES AND TERMINATIONS SHALL BE MADE TIGHT AND AS SUCH TO PROVIDE LOW IMPEDANCE AND SHALL HAVE THE SAME SHORT-TIME CURRENT-CARRYING CAPABILITY AS THE CONDUCTOR IT IS CONNECTED TO.
  - f. ALL GRD ELECTRODES OR BONDING CONDUCTORS INSTALLED ALONE WITHIN A RACEWAY SHALL UTILIZE GRC WITH GROUNDING BUSHINGS AT EACH END. THIS GROUND CONDUCTOR SHALL LOOP THROUGH THE BUSHING LUG PRIOR TO TERMINATION.

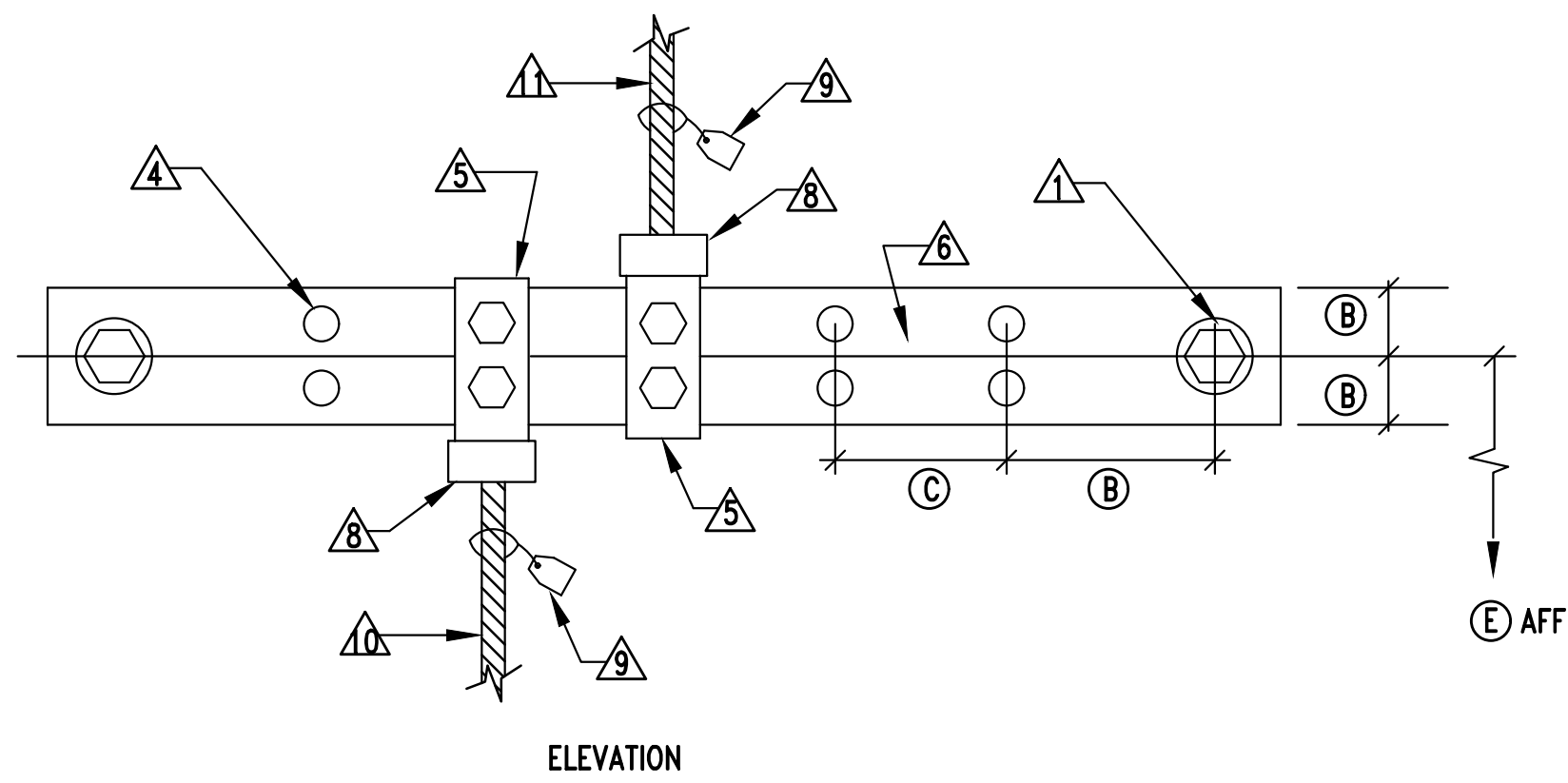
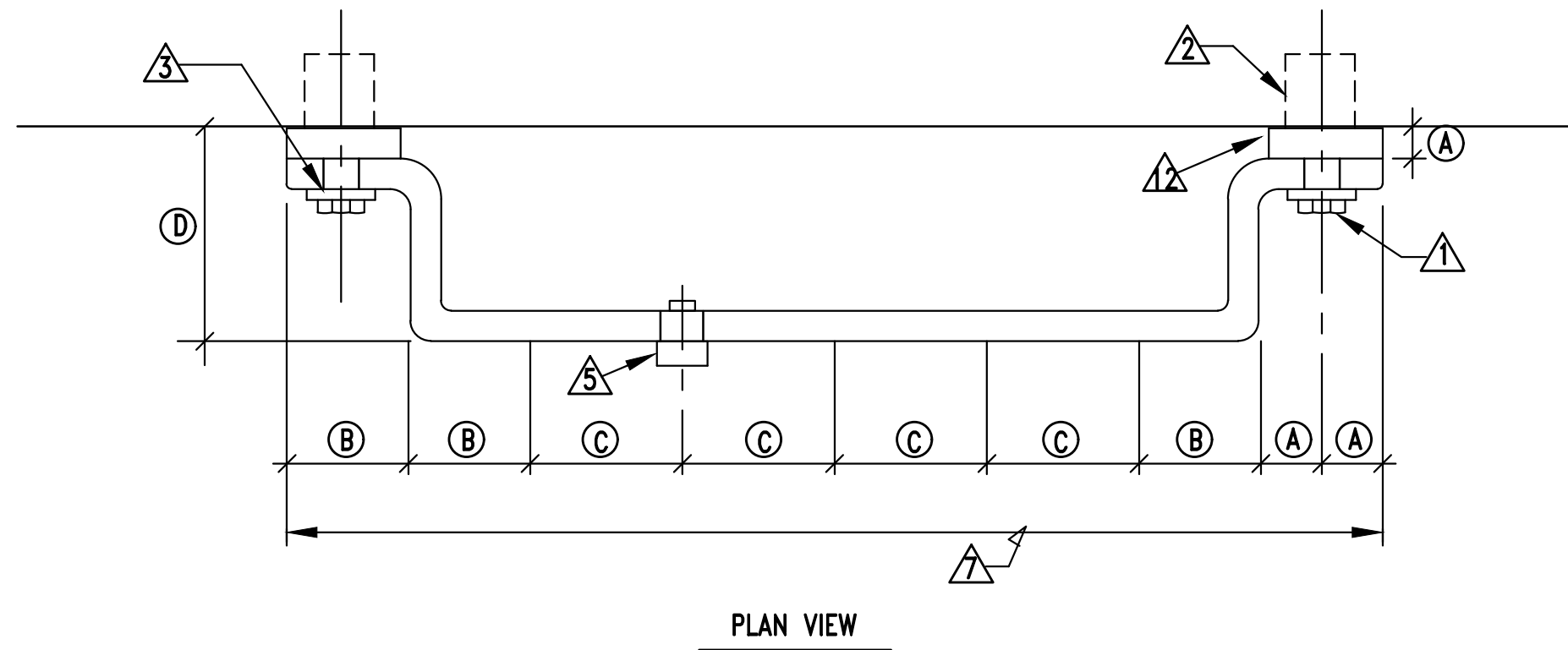
REF	ENGLISH	SI
A	1"	25.4mm
B	2"	50.8mm
C	2 1/2"	63.5mm
D	3"	76.2mm
E	1'-6"	.4572m

GROUND BUS NOTES

1. GROUND BUS INSTALLATION SHALL BE IN ACCORDANCE WITH THIS DETAIL AND AS INDICATED ON THE DRAWINGS.

KEYED NOTES

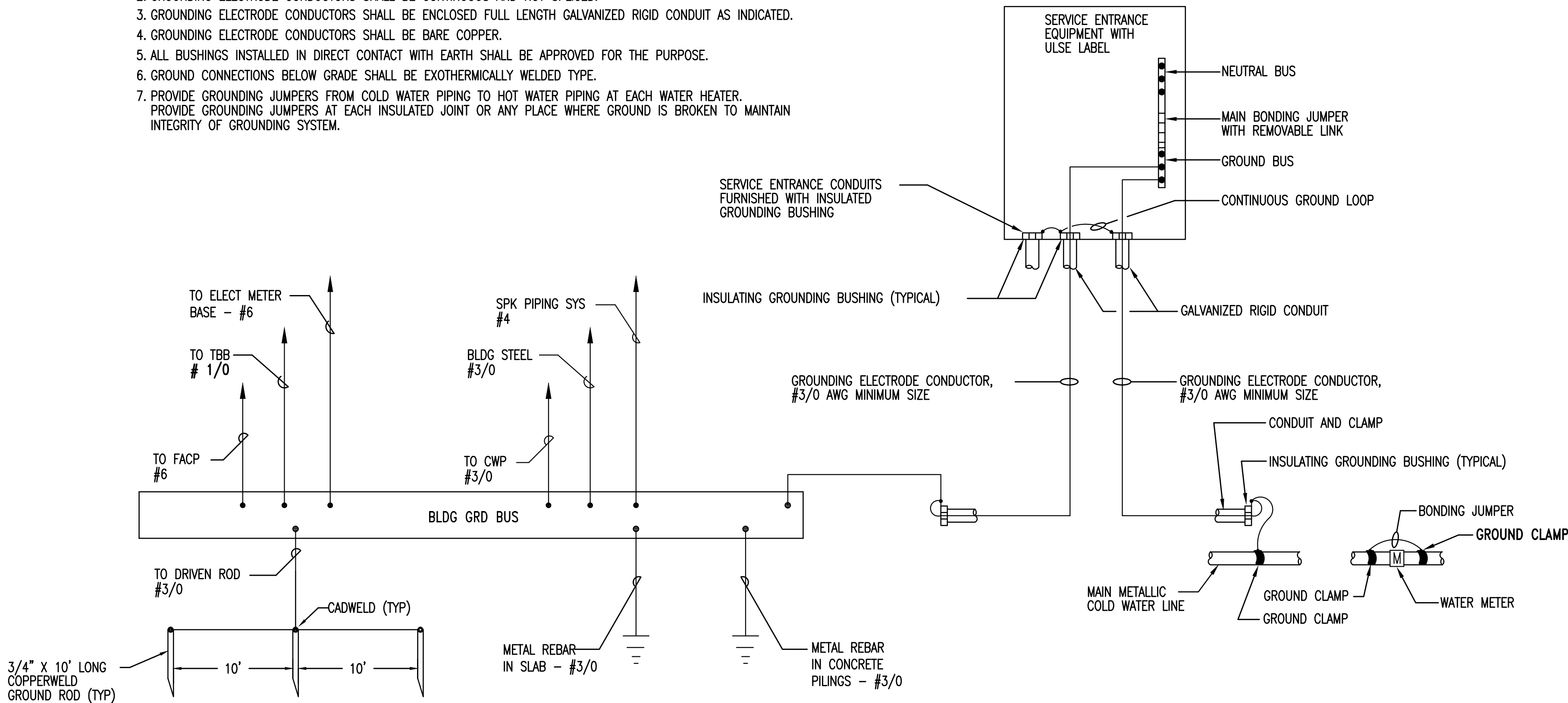
- 1/2" (12.7mm) X 1 1/2" (38.1mm) SILICON-BRONZE MACHINE BOLT & SILICON-BRONZE WASHER
- 1/2" (12.7mm) EXPANSION ANCHOR
- 9/16" (14.2875mm) HOLE IN BAR
- DRILLED DOUBLE CONNECTOR HOLES
- FLAT, TWO-HOLE CU CABLE CONNECTOR #6 TO #2 (DOUBLE LUGS) #1 TO #4/0 (SINGLE LUGS ONLY)
- 4" (101.6mm) WIDE, 1/4" (6.35mm) DEEP COPPER BUS BAR.
- LENGTH AS REQUIRED BY NUMBER OF CONDUCTOR CONNECTIONS OR AS SPECIFICALLY INDICATED. PROVIDE INTERMEDIATE WALL SUPPORTS AS REQUIRED.
- TYP CU GRD CONDUCTOR CONNECTION
- DESCRIPTION TAG. STATE SIZE OF CONDUCTOR AND TO WHAT IT IS CONNECTED TO.
- TYP GRD CONNECTION FROM BELOW. SEE APPLICABLE DETAILS FOR SLAB PENETRATIONS.
- TYP GRD CONNECTION FROM ABOVE. SEE APPLICABLE DETAILS FOR GRC INSTALLATIONS.
- INSULATED NON-CONDUCTIVE SPACER



1 DETAIL - TYPICAL GROUND BUS INSTALLATION  
E7.2 NO SCALE

NOTES

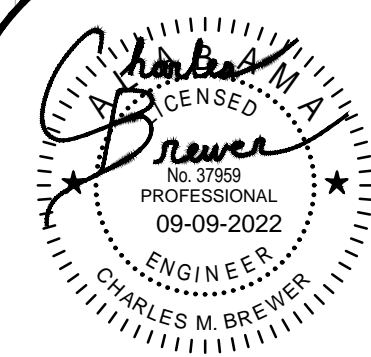
1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTINUOUS AND NOT SPLICED.
3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED FULL LENGTH GALVANIZED RIGID CONDUIT AS INDICATED.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE COPPER.
5. ALL BUSHINGS INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE APPROVED FOR THE PURPOSE.
6. GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMICALLY WELDED TYPE.
7. PROVIDE GROUNDING JUMPERS FROM COLD WATER PIPING TO HOT WATER PIPING AT EACH WATER HEATER. PROVIDE GROUNDING JUMPERS AT EACH INSULATED JOINT OR ANY PLACE WHERE GROUND IS BROKEN TO MAINTAIN INTEGRITY OF GROUNDING SYSTEM.



4 DETAIL - SERVICE ENTRANCE GROUNDING INSTALLATION  
E7.2 NO SCALE

GYM ADDITION  
TO  
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FOR THE  
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SHEET TITLE : GROUNDING DETAILS AND NOTES

MCKEE JOB # : 21.269

DRAWN BY : CMB, SBW

DATE : 9.9.22

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : E7.2

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