

# CONCORD BATTING CAGES

## CONCORD SCHOOL DISTRICT CONCORD, ARKANSAS

### ABBREVIATIONS

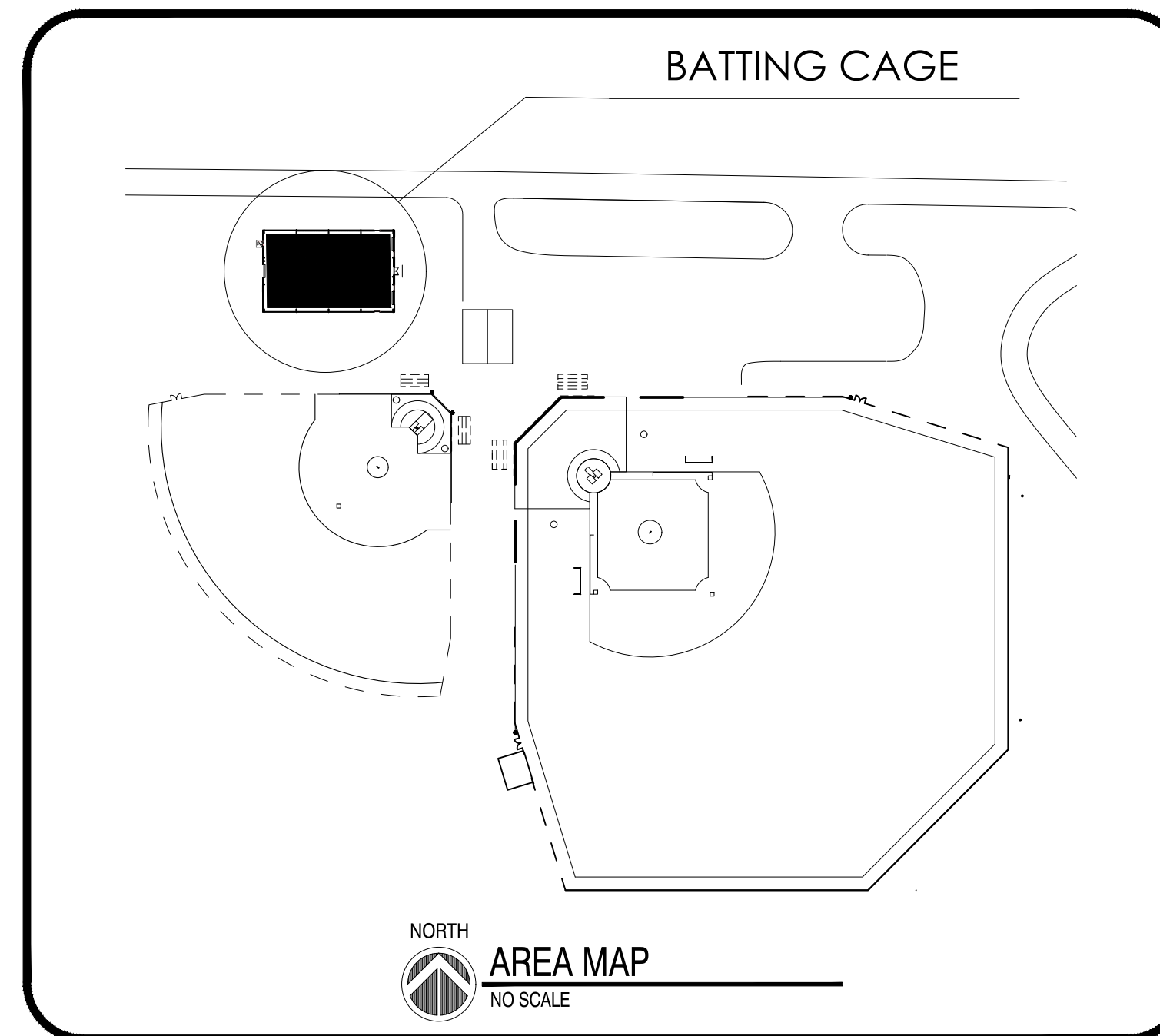
AFF	ABOVE FINISH FLOOR
AT	ALUMINUM THRESHOLD
CLG	CEILING
CONC	CONCRETE
CONT	CONTINUOUS
DTL	DETAIL
FEC	FIRE EXTINGUISHER CABINET
FL	FLOOR
NTS	NOT TO SCALE
OPG	OPENING
REQ'D	REQUIRED
SHT	SHEET
SIM	SIMILAR
TYP	TYPICAL
F.F.E.	FINISH FLOOR ELEVATION
V.I.F.	VERIFY IN FIELD

### SYMBOL LEGEND

3	DOOR & FRAME SEE SCHEDULE
12	HARDWARE SET NUMBER
122	ROOM NUMBER
9'-4"	CEILING HEIGHT
5	DETAIL NUMBER
A-5	SHEET NUMBER

### MATERIAL LEGEND

[Pattern]	FACE BRICK
[Pattern]	CONCRETE BLOCK (SECTION)
[Pattern]	CONCRETE (SECTION)
[Pattern]	WOOD ROUGH
[Pattern]	METAL WALL PANEL
[Pattern]	RIGID INSULATION
[Pattern]	BLANKET INSULATION



### INDEX OF DRAWINGS

T1.1 TITLE SHEET

#### ARCHITECTURAL

- A0.1 ARCHITECTURAL SITE PLAN - BATTING CAGE
- A1.1 DOOR SCHEDULES/DETAILS
- A1.2 FLOOR PLAN - BATTING CAGE

#### STRUCTURAL

- S1.1 STRUCTURAL NOTES, LEGEND AND DETAILS
- S2.1 BATTING CAGE BUILDING STRUCTURAL PLANS AND DETAILS

#### MECHANICAL

- M1.1 FLOOR PLAN - BATTING CAGE

#### ELECTRICAL

- E1.1 FLOOR PLAN - BATTING CAGE - ELECTRICAL
- E2.1 ELECTRICAL LEGEND, DETAILS, & NOTES

#### PLUMBING

- P1.0 SITE PLAN
- P1.1 FLOOR PLANS - BATTING CAGE - PLUMBING

### PROJECT INFORMATION

DRAWINGS AND PROJECT MANUAL APPROVED AND IDENTIFIED AS PARTS OF THE OFFICIAL CONTRACT DOCUMENTS

OWNER: CONCORD SCHOOL DISTRICT

FACILITY: CONCORD BATTING CAGES

LOCATION: CONCORD, ARKANSAS

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONSTRUCTION MANAGER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

ARCHITECT: LEWIS ARCHITECTS ENGINEERS

ADDRESS: 11225 HURON LANE, SUITE 104

LITTLE ROCK, ARKANSAS 72211

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

PROJECT NUMBER: 24055

DRAWINGS AND PROJECT MANUAL DATED: 2024 09-20

### DESIGN DATA

#### BATTING CAGE

GENERAL CODES:	
INTERNATIONAL BUILDING CODE (IBC)	2021 EDITION
ARKANSAS FIRE PREVENTION CODE	2021 EDITION
SEISMIC DESIGN:	
SEISMIC FIRE CLASS. II	2021 IBC
SEISMIC DESIGN CATEGORY: S	
CONWAY COUNTY	
ACCESSIBLE DESIGN:	
AMERICAN WITH DISABILITIES ACT	2010 EDITION
OCCUPANCY CLASSIFICATION:	
A-3	BC 304
BUILDING TYPE:	
TYPE IIB CONSTRUCTION	BC 402.3
BUILDING AREA:	
4263 SQFT	BC 505
OCCUPANCY LOAD:	
126 (50 SQFT / PERSON)	BC 1004.1.1
ALLOWABLE BUILDING AREA:	
9,500 SQFT	BC TABLE 503
ALLOWABLE BUILDING HEIGHT:	
2 STORY - 35 FEET	BC TABLE 503
MEANS OF EGRESS:	
MAX. TRAVEL DISTANCE TO EXIT:	200 FT. BC TABLE 1016.1
MAX. DEAD END CORRIDOR LENGTH:	20 FT. BC 1017.2
MIN. CLEAR CORRIDOR WIDTH:	44 IN. BC 1017.2
MIN. CLEAR OPENING AT EXIT:	32 IN. BC 1008.1.1
MIN. NUMBER OF EXITS:	2 BC 1019.1
FIRE PROTECTIONS:	
PORTABLE FIRE EXTINGUISHERS	

CERTIFICATION STATEMENT:

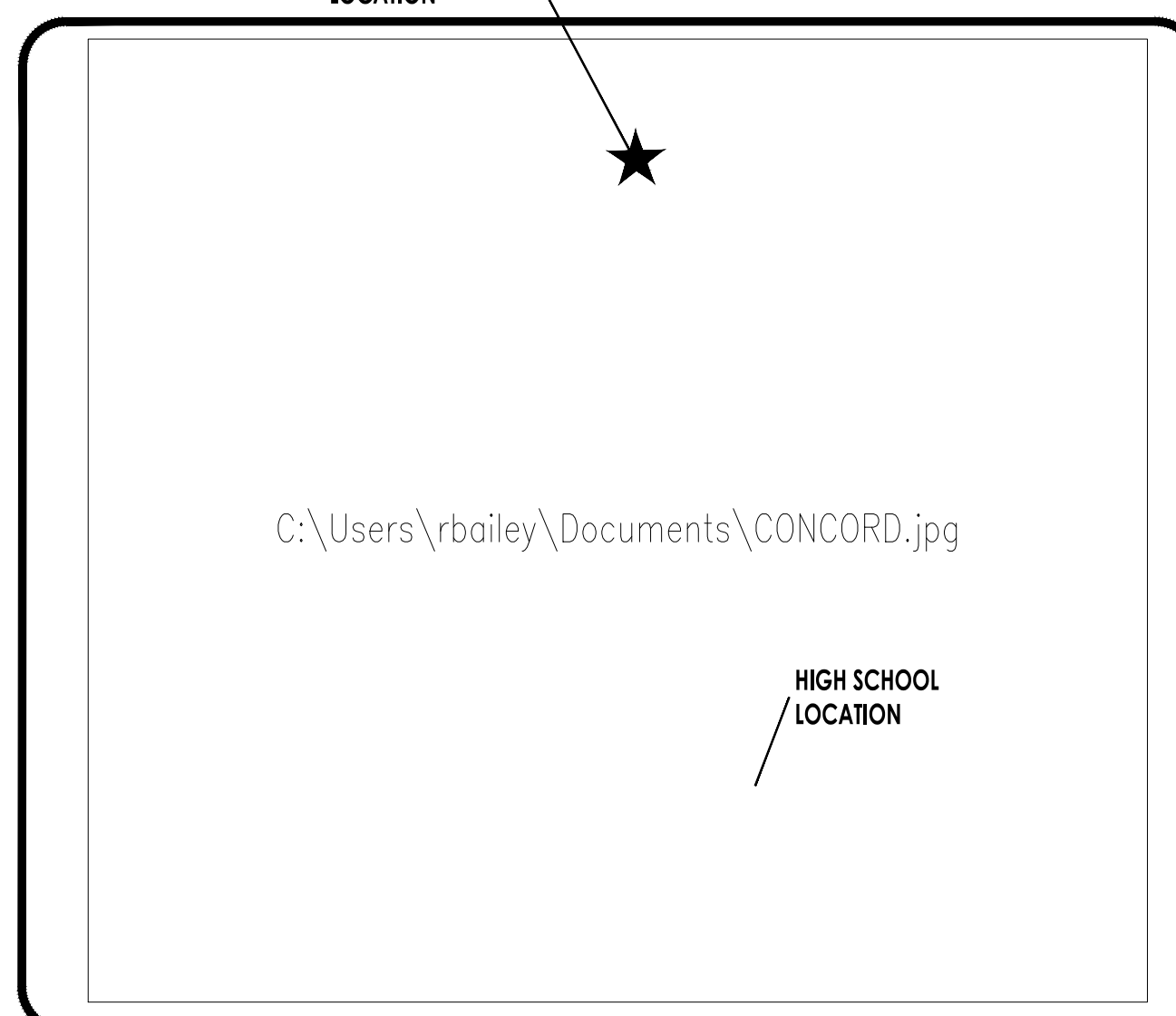
#### CERTIFICATION STATEMENT:

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION, I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE "ARKANSAS FIRE PREVENTION CODE" FOR THE STATE OF ARKANSAS.

LEWIS, ELLIOTT, MCMORRAN, VADEN, RAGSDALE, & WOODWARD, INCORPORATED

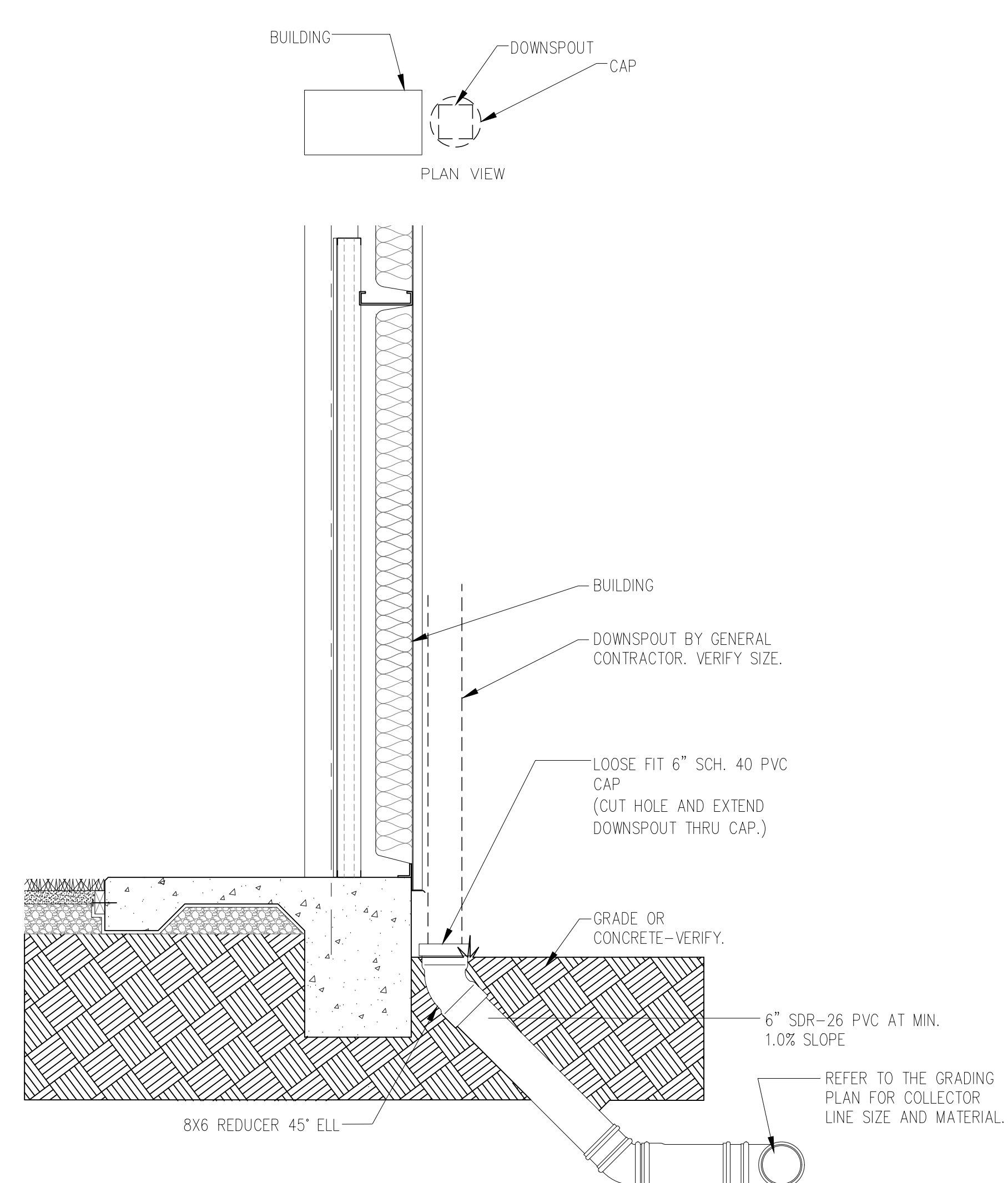
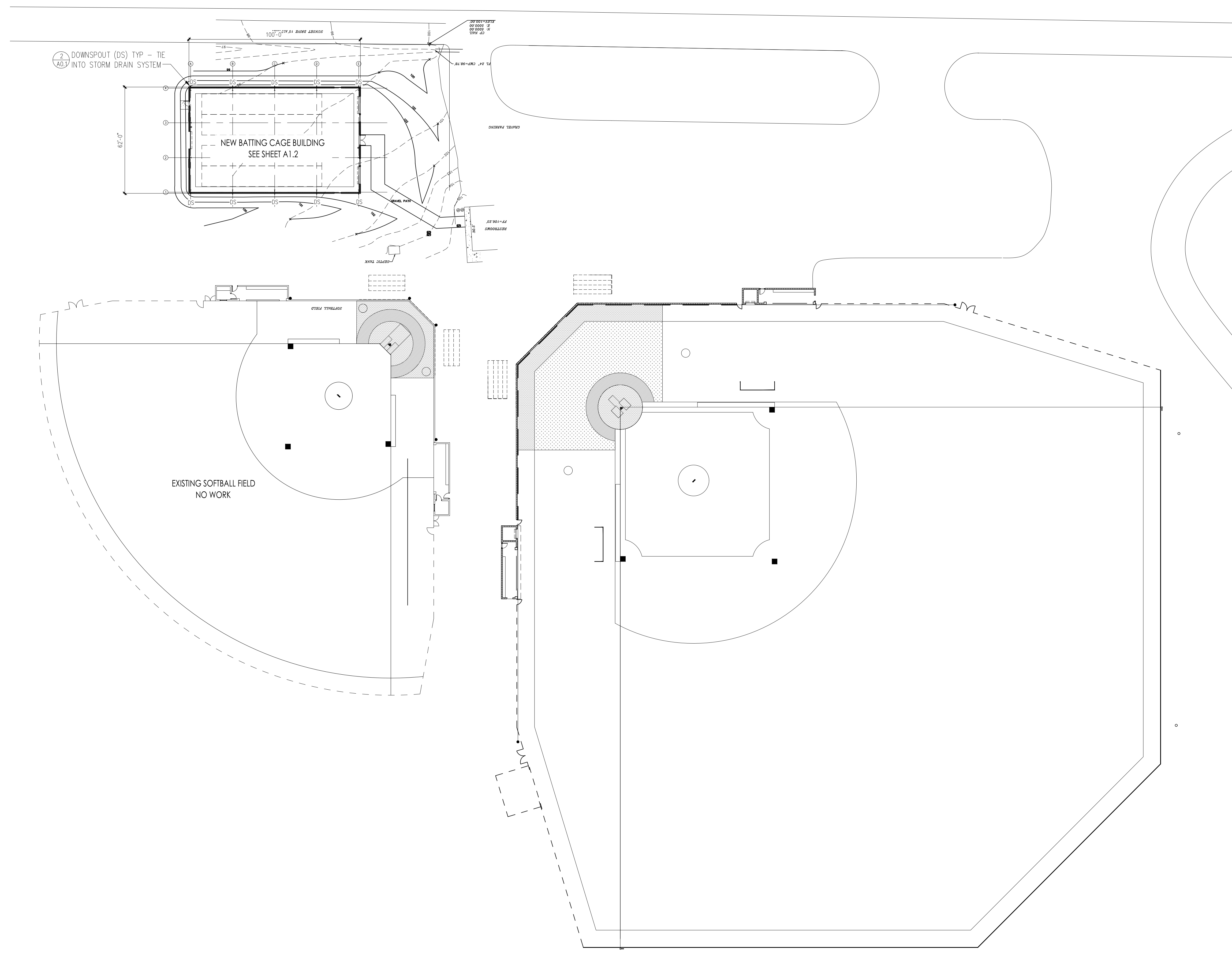
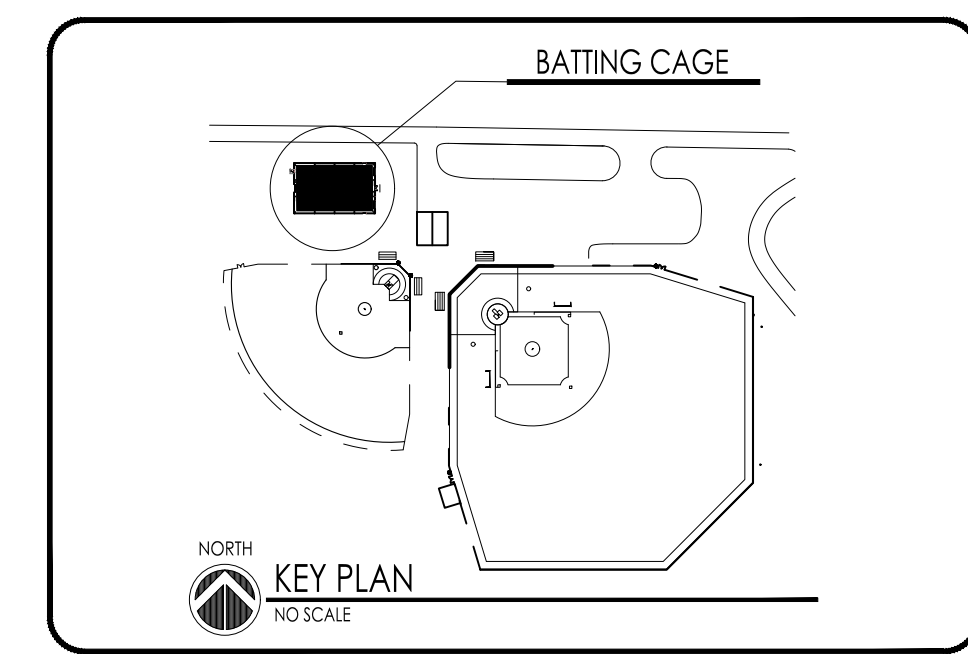
*Clayton Vaden* 9/20/24

NEW BATTING CAGE LOCATION



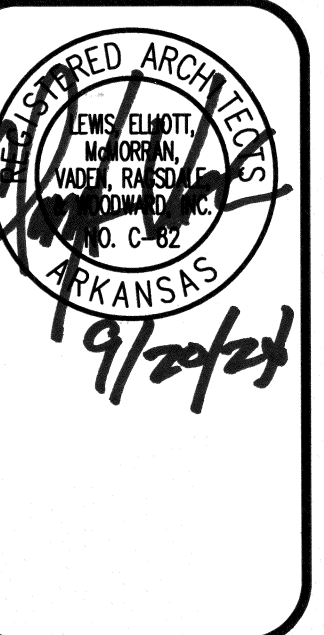
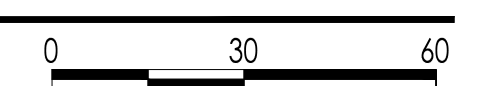
NORTH  
VICINITY MAP  
NO SCALE



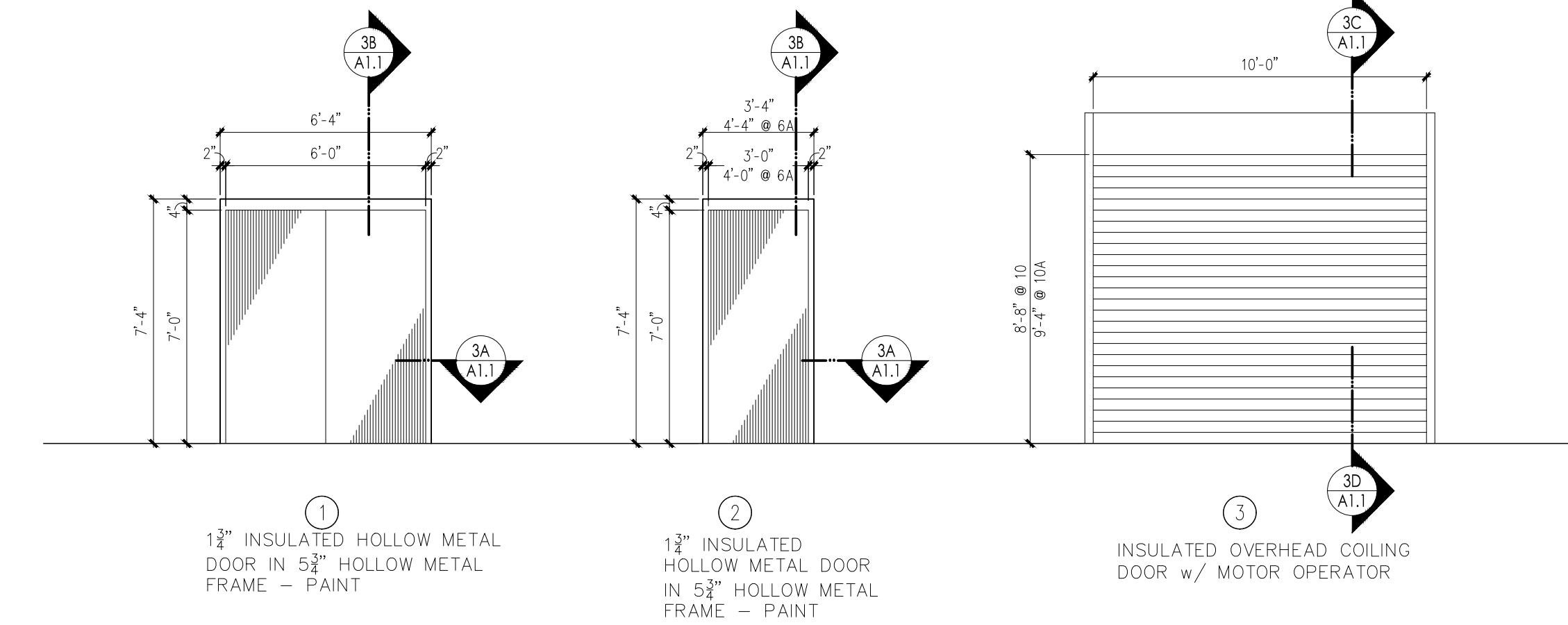


2  
A0.1  
DOWNSPOUT CONNECTION DETAIL  
NOT TO SCALE

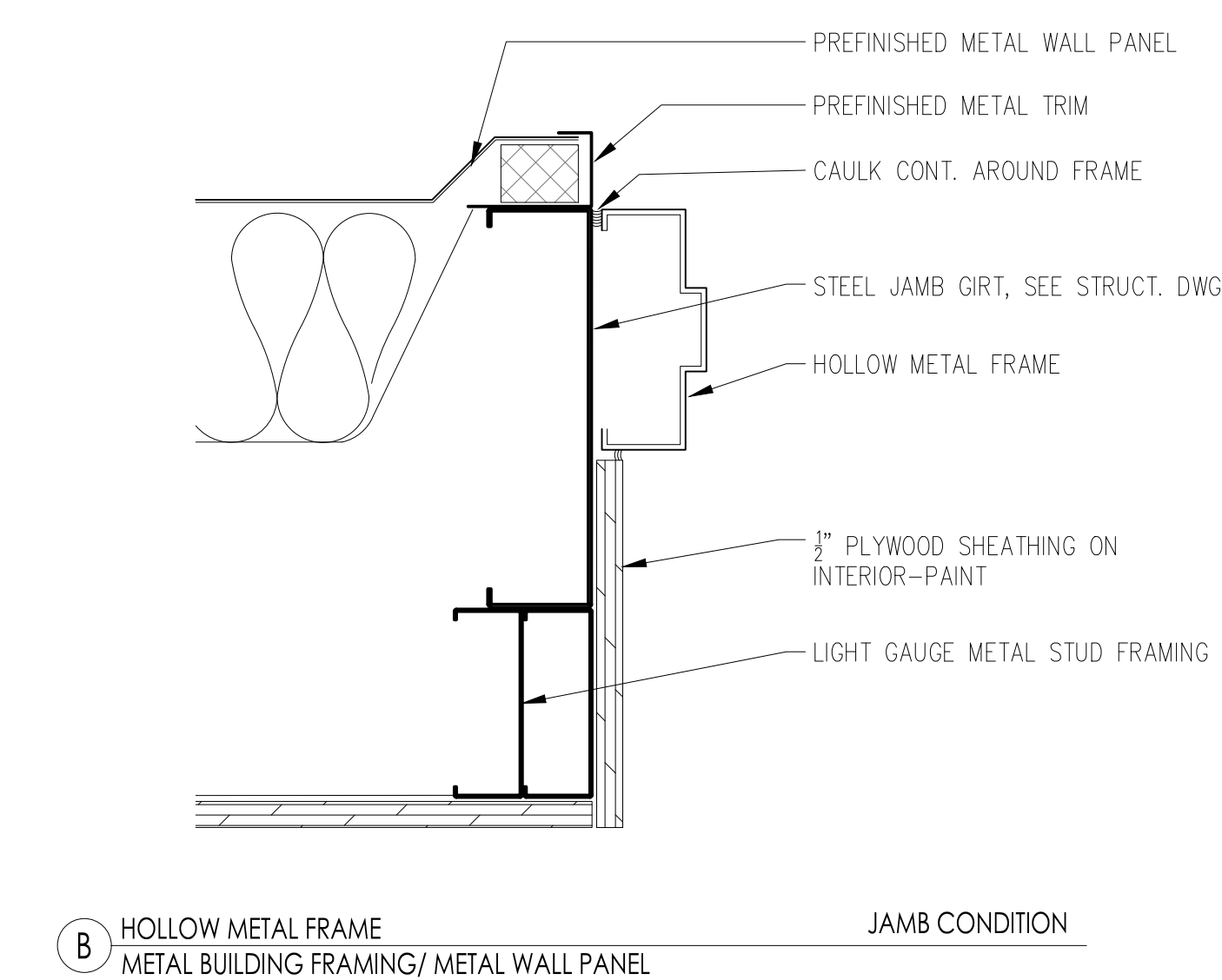
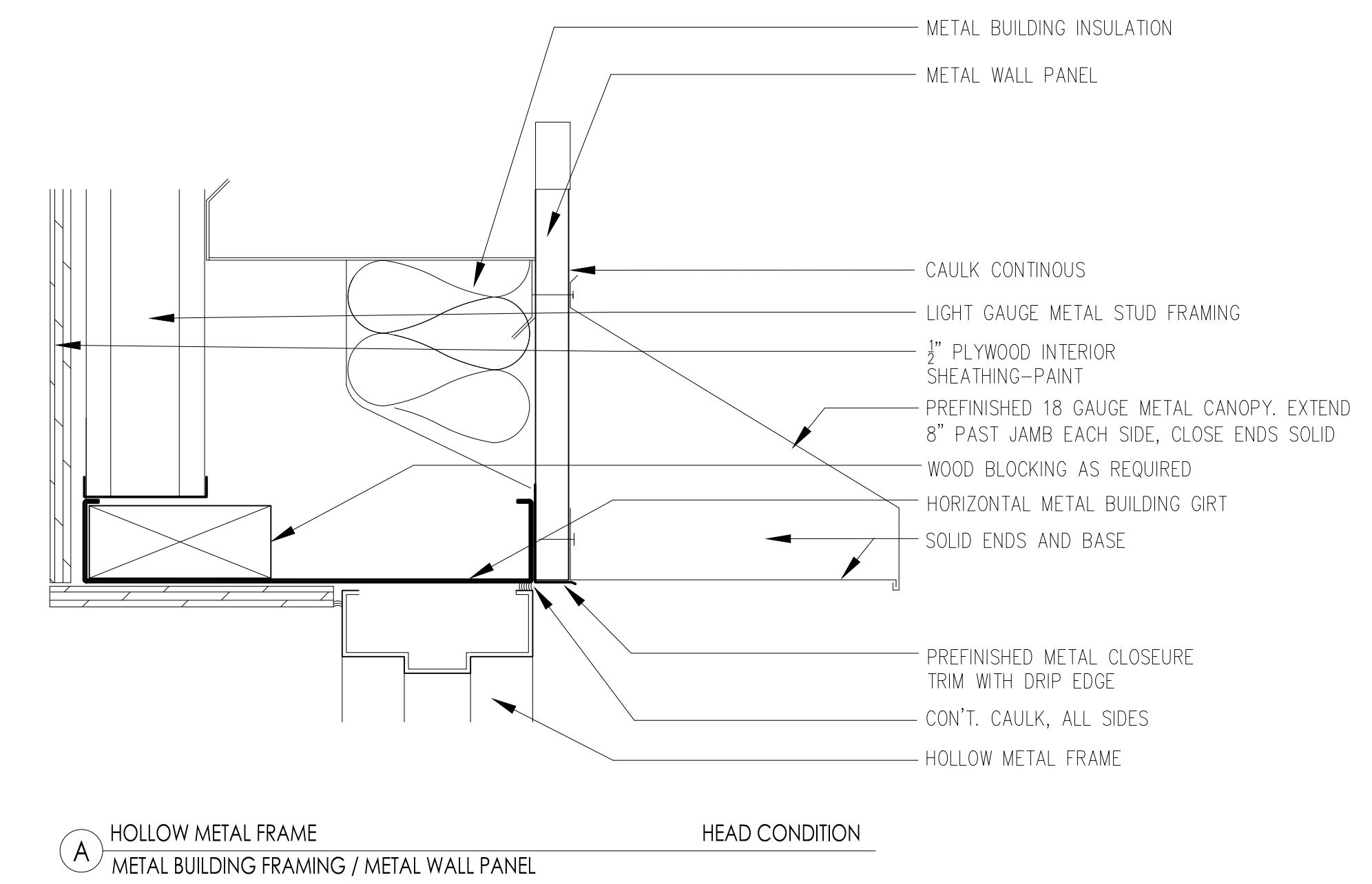
NORTH  
1  
A0.1  
SITE PLAN  
SCALE: 1" = 30'-0"



FINISH SCHEDULE - BATTING CAGE BUILDING									
ROOM IDENTIFICATION		FLOOR		BASE		WALLS		CEILING	
ROOM NAME	NUMBER	MARK	REMARK	MARK	REMARK	MARK	REMARK	MARK	REMARK
BATTING CAGE	600	SC-1/TF-1		RB-1		P-2/UJNF-3		EXP-2	

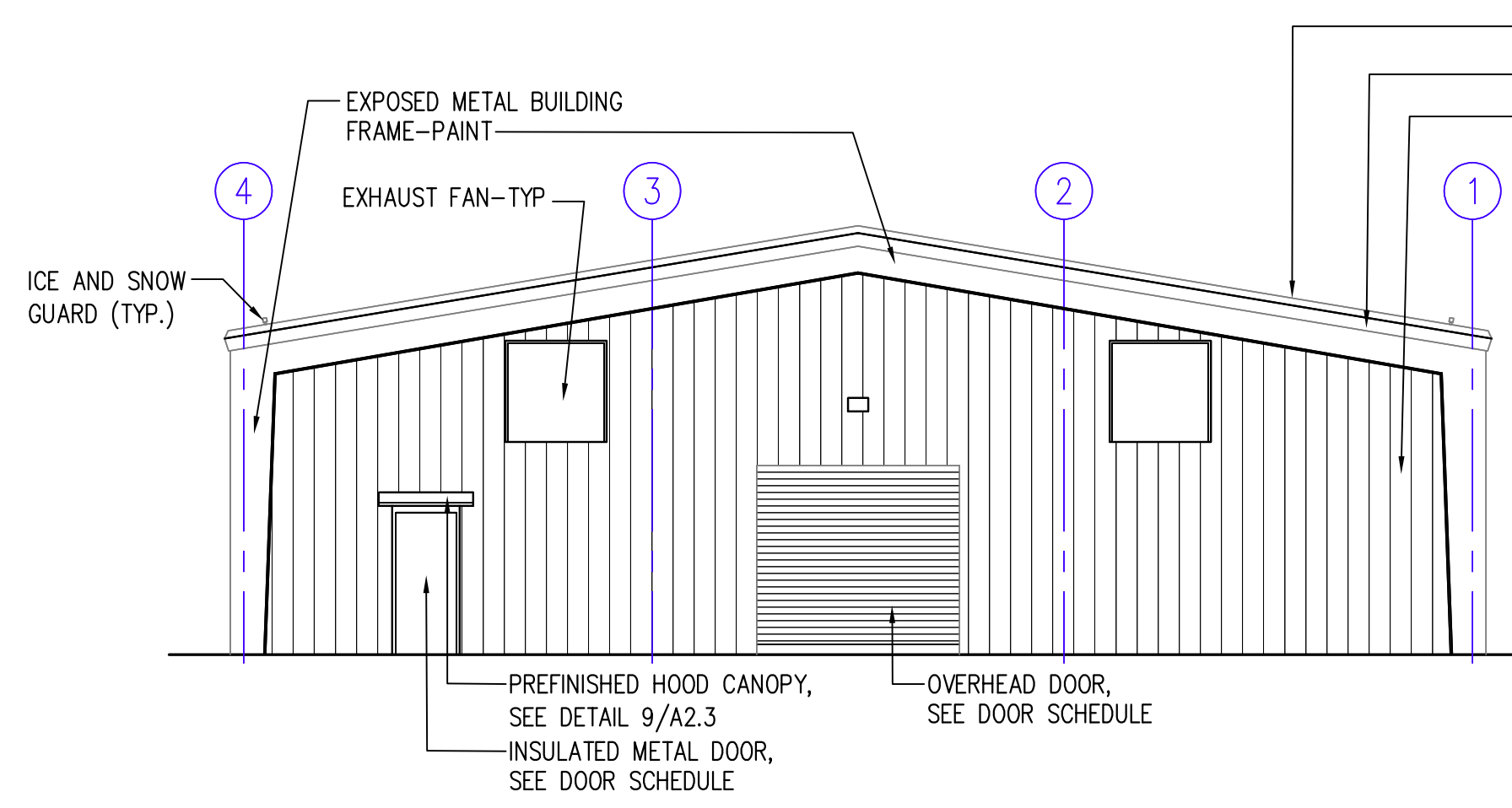


1 HOLLOW METAL DOORS AND FRAMES  
A1.1 NOT TO SCALE

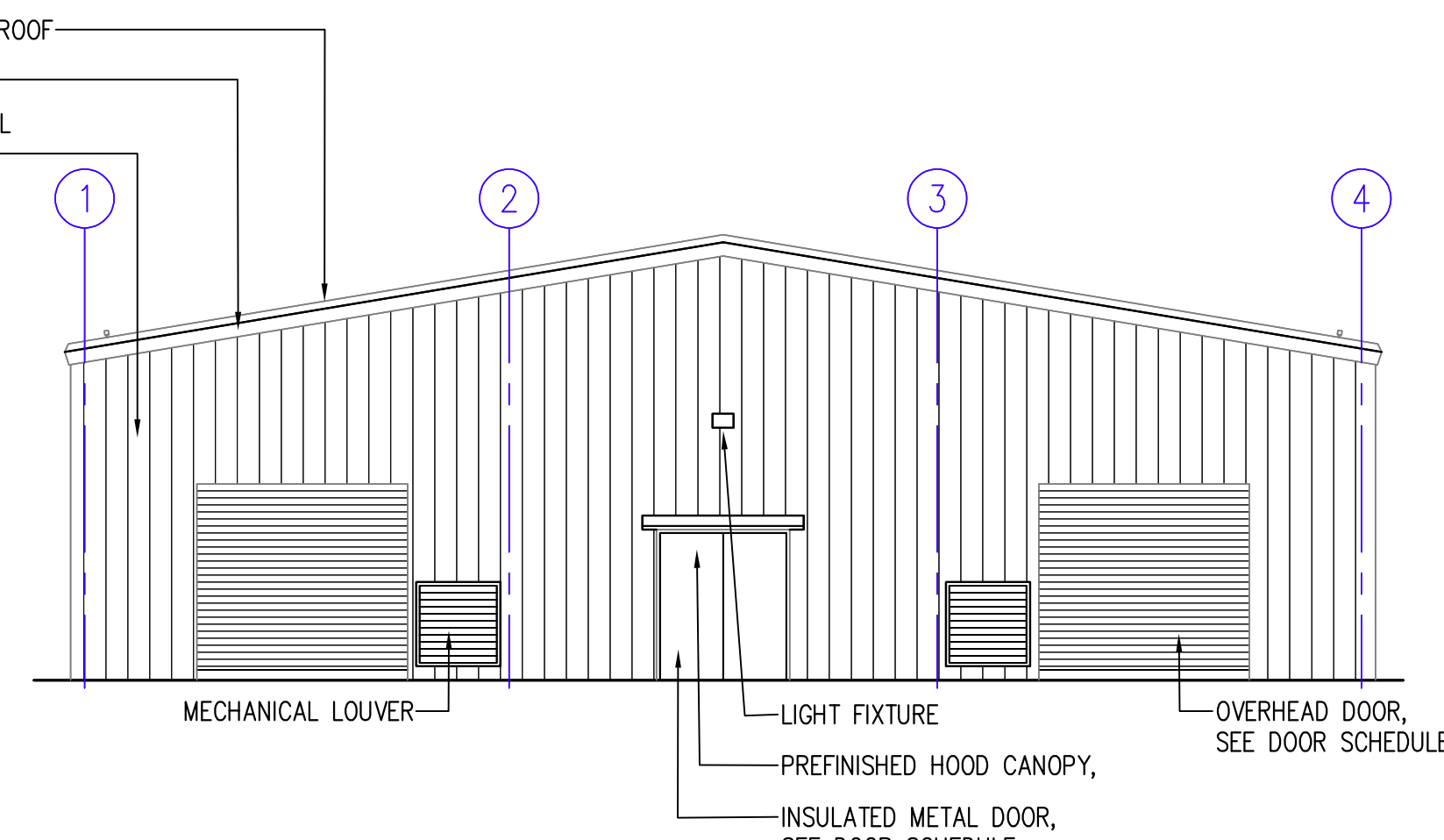


2 DOOR DETAILS  
A1.1 NOT TO SCALE

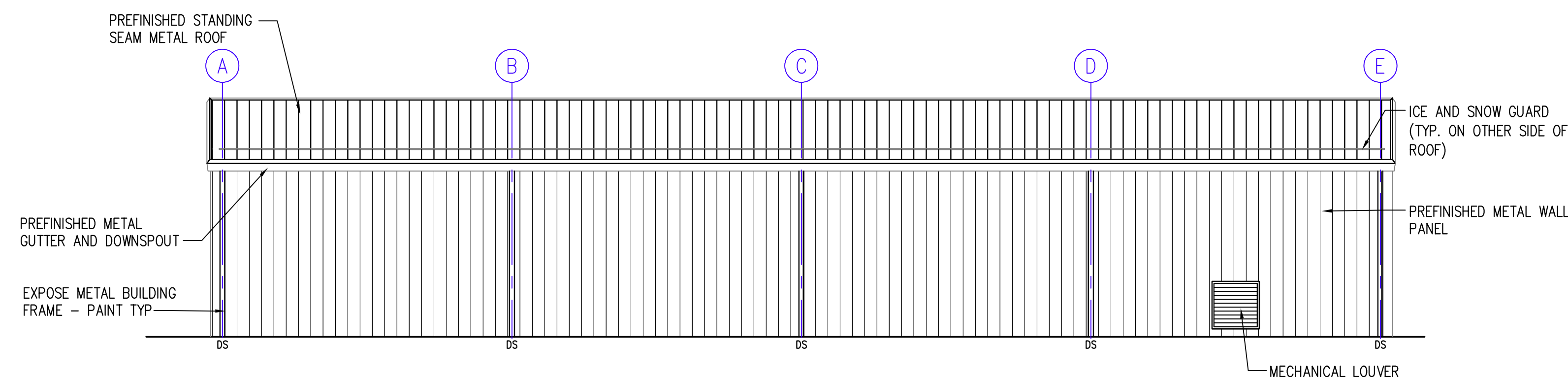
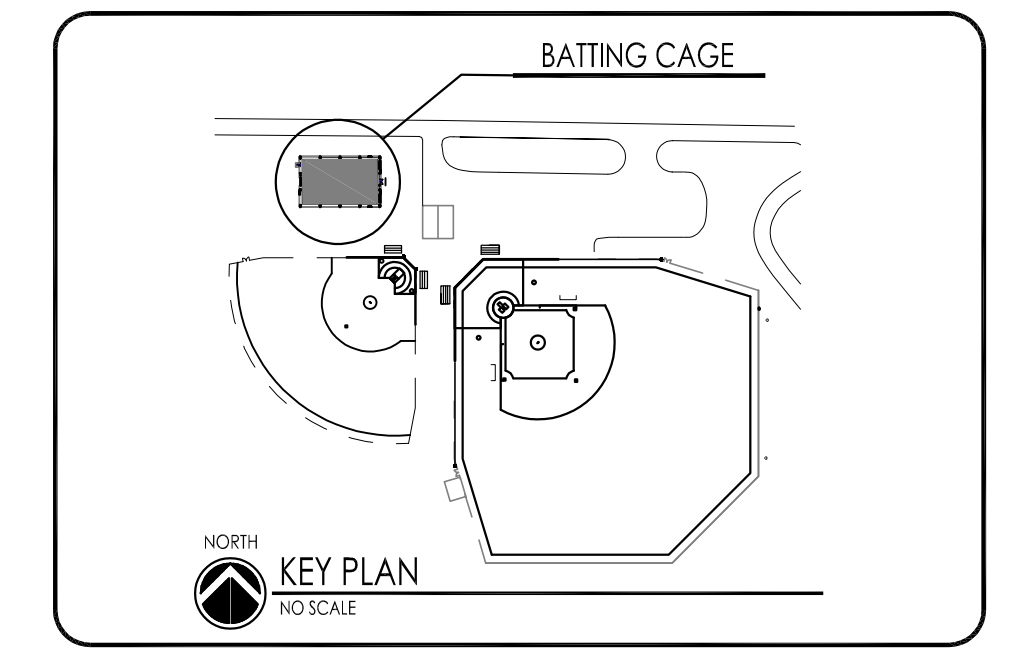




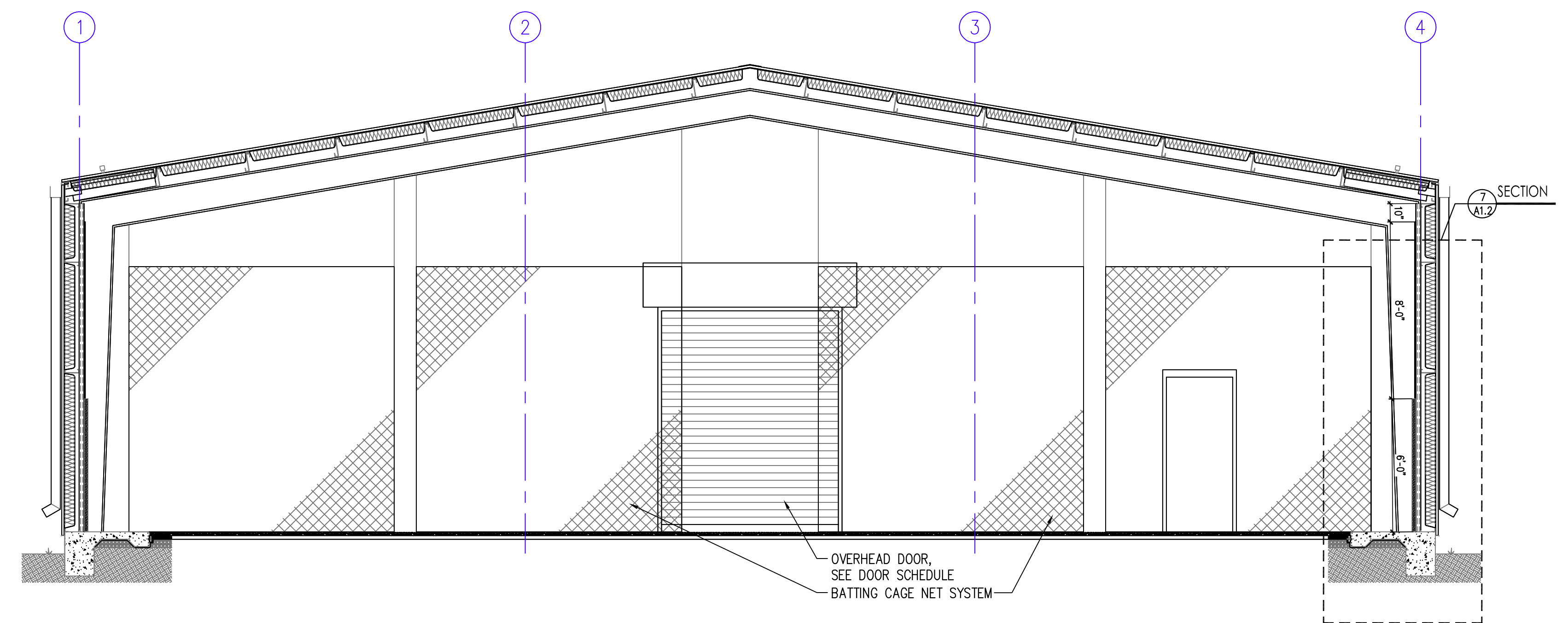
3 WEST ELEVATION - BATTING CAGE  
A1.2 SCALE: 1/8" = 1'-0"



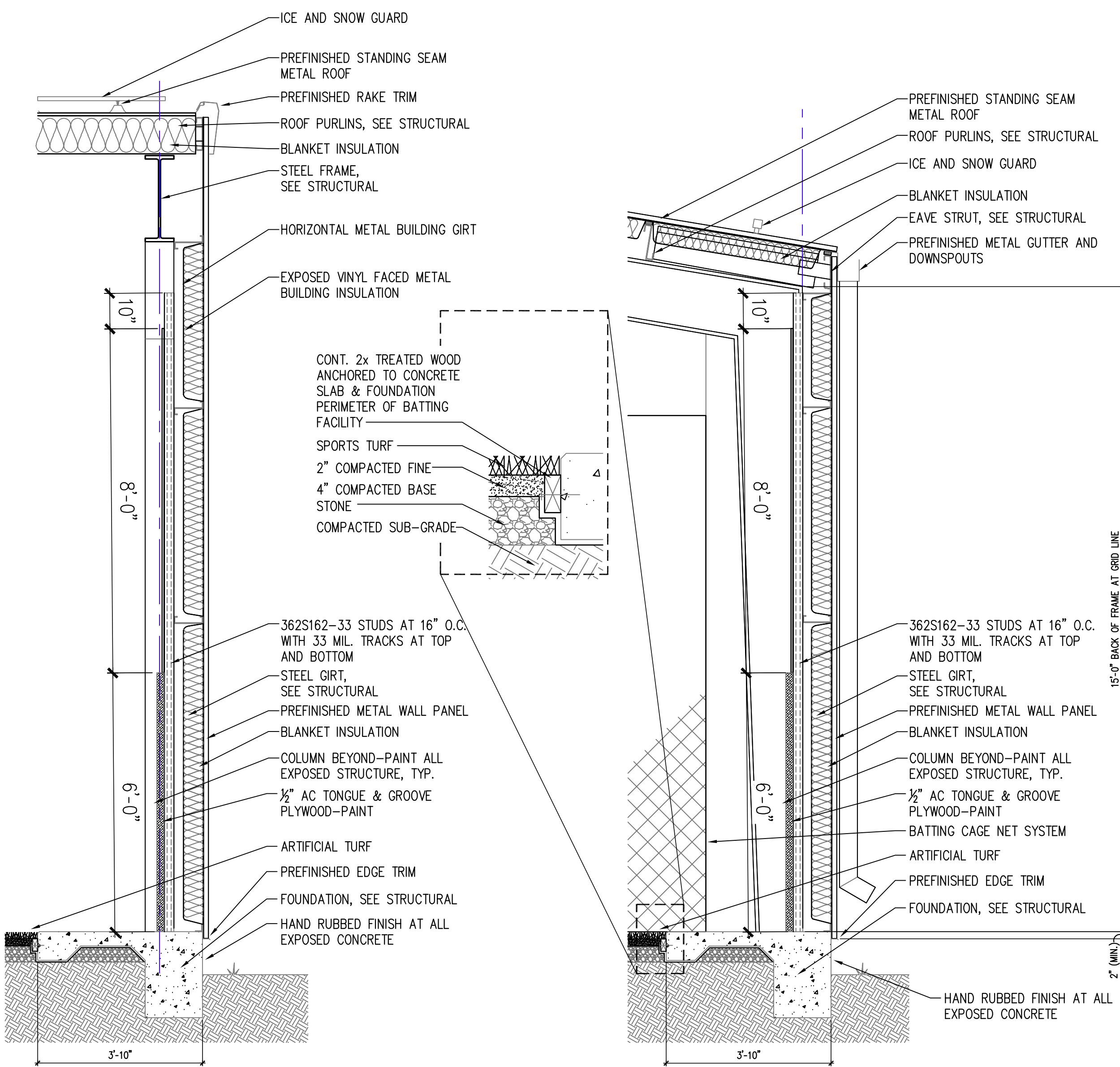
4 EAST ELEVATION - BATTING CAGE  
A1.2 SCALE: 1/8" = 1'-0"



5 SOUTH ELEVATION - BATTING CAGE (NORTH SIMILAR)  
A1.2 SCALE: 1/8" = 1'-0"

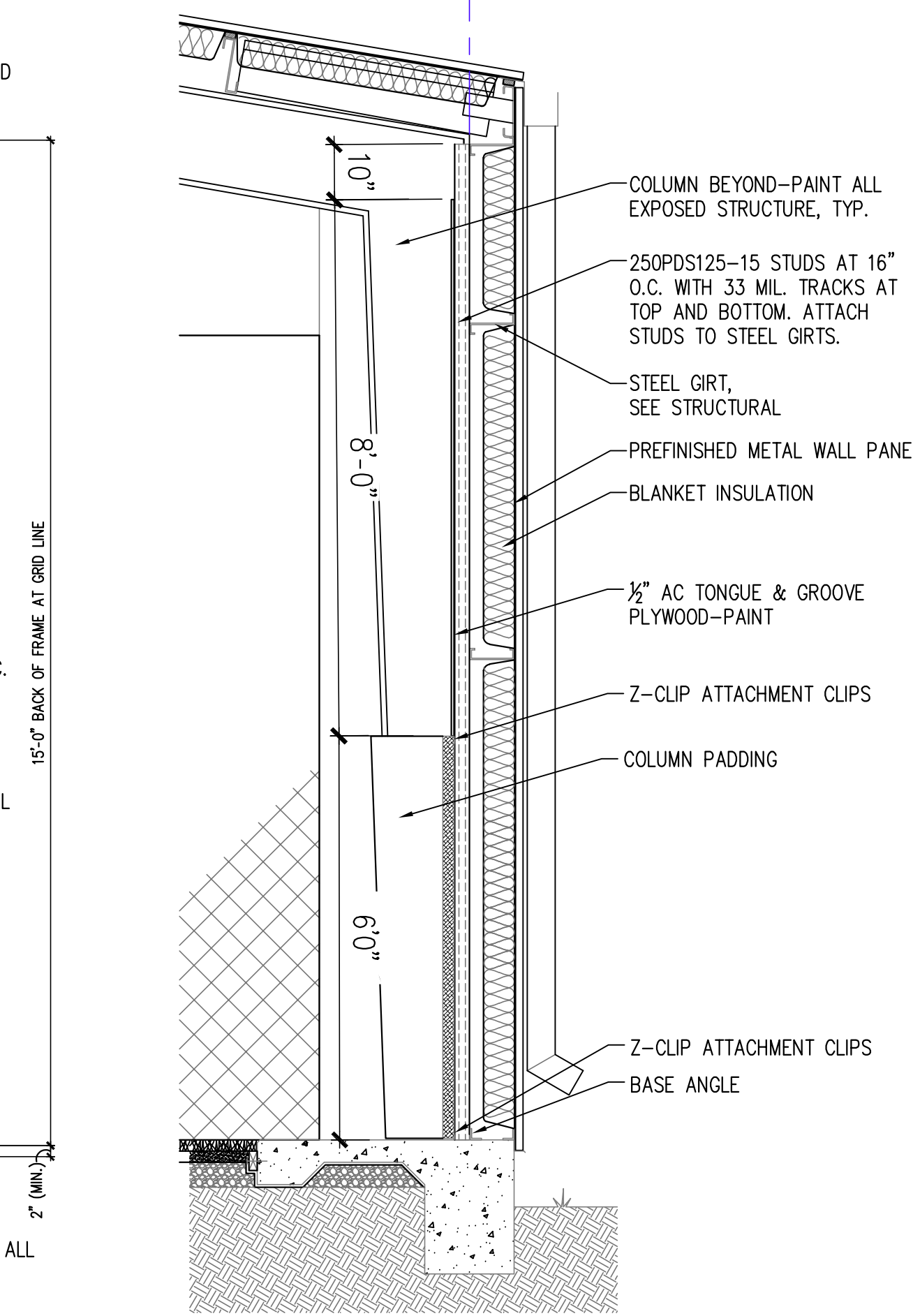


2 TYPICAL BUILDING SECTION - BATTING CAGE  
A1.2 SCALE: 1/4" = 1'-0"

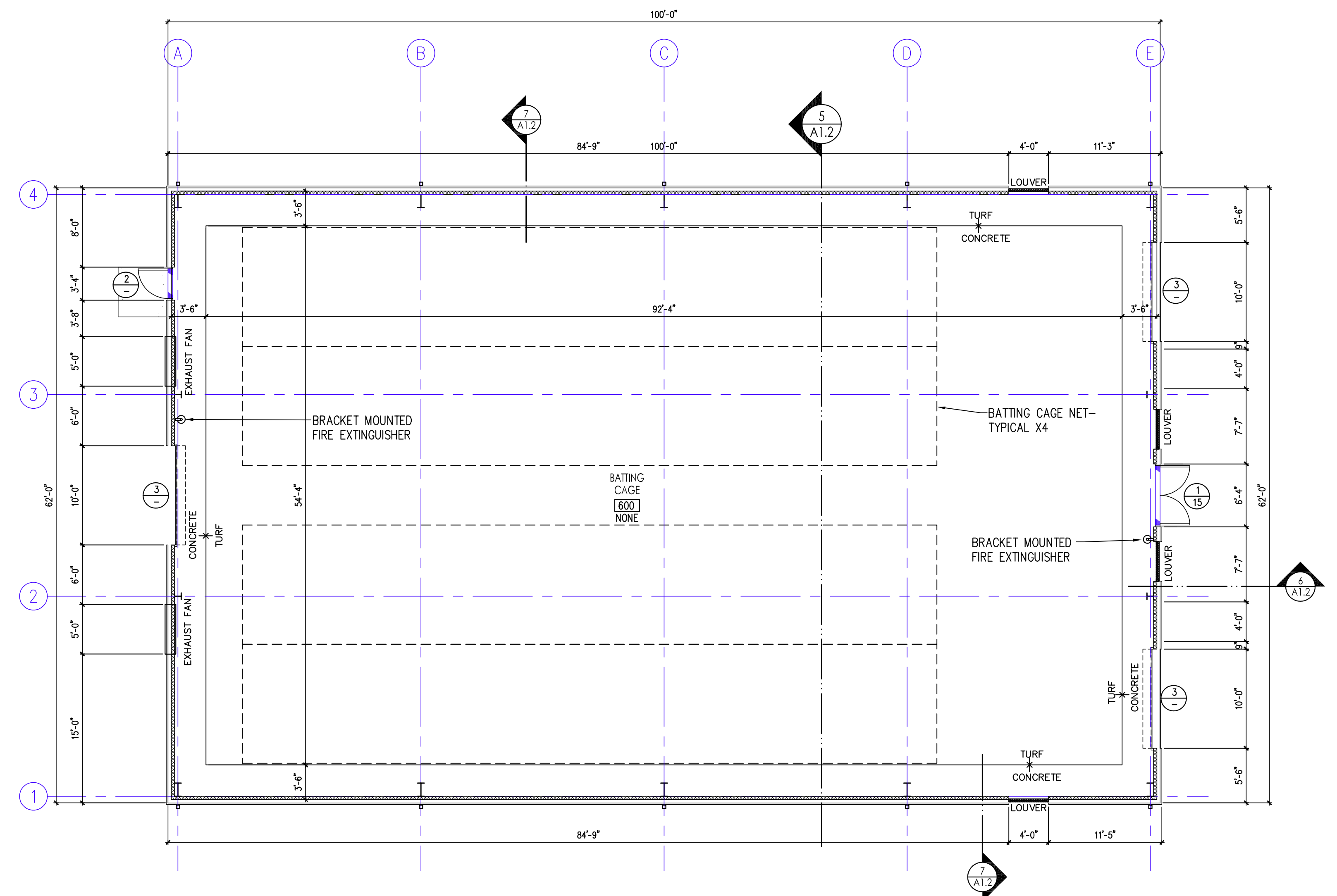


6 WALL SECTION  
A1.2 SCALE: 1/2" = 1'-0"

7 WALL SECTION  
A1.2 SCALE: 1/2" = 1'-0"



8 WALL SECTION W/ COLUMN PADDING  
A1.2 SCALE: 1/2" = 1'-0"



1 FLOOR PLAN - BATTING CAGE BUILDING  
A1.2 SCALE: 1/8" = 1'-0"



**FOUNDATION NOTES:**

- GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT DISCREPANCIES BETWEEN DRAWINGS AND SITE CONDITIONS TO ARCHITECT FOR COORDINATION.
- ALL EXISTING UNDERGROUND UTILITIES, FOUNDATIONS, ETC. SHALL BE REMOVED FROM THE AREA OF THE BUILDING PAD AS DIRECTED BY THE GEOTECHNICAL ENGINEER. BACKFILL EXCAVATIONS WITH COMPACTED SELECT FILL AND PLACE PER NOTE 5 BELOW.
- POSITIVE DRAINAGE AWAY FROM BUILDING PADS SHALL BE PROVIDED AT ALL TIMES. SATURATION OF SUBSURFACE SOILS WILL BE DETRIMENTAL AND MAY INCREASE UNDERCUTS.
- AT LOCATIONS WHERE UTILITY, ELECTRICAL, OR PLUMBING TRENCHES ARE LOCATED BELOW THE FOOTING AND WITHIN 5 FEET OF THE EDGE OF THE FOOTING, OR BELOW THE FOOTING, TRENCHES SHALL BE BACKFILLED IN LIFTS, COMPACTED, AND TESTED PER NOTE 5
- ALL COMPACTED FILL SHALL BE PLACED IN 6-8 INCH LOOSE LIFTS AND COMPACTED TO AT LEAST 90% OF THE MAXIMUM MODIFIED PROCTOR (ASTM D-1557). FILL SOILS SHALL CONSIST OF LOW-PLASTICITY, NON-EXPANSIVE SOILS HAVING A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX LESS THAN 15. FILL SOILS SHALL BE SELECT CLAYEY SAND (SC), SANDY CLAY (CL), OR CLAY GRAVEL (GC), AS NOTED IN THE SOILS REPORT. THE GEOTECHNICAL ENGINEER SHALL APPROVE ALL MATERIAL TO BE USED FOR FILL OR BACKFILL MATERIAL. PRIOR TO PLACING EACH LIFT, THE PREVIOUS LIFT SHALL BE TESTED AND APPROVED BY GEOTECHNICAL ENGINEER.
- FLOOR SLABS SHALL BEAR ON A MINIMUM 4" OF WASHED GRAVEL. VAPOR BARRIER (SEE SPECIFICATION 07260) SHALL BE PLACED DIRECTLY BENEATH THE SLAB ON GRADE. BELOW THE WASHED GRAVEL SHALL BE EITHER COMPACTED SELECT FILL OR APPROVED NATURAL MATERIAL PASSING PRODFROLL.
- FOOTINGS SHALL BEAR ON APPROVED NATURAL UNDISTURBED STIFF SOILS OR COMPACTED SELECT FILL CAPABLE OF 2,000 PSF ALLOWABLE BEARING CAPACITY. IF SUITABLE BEARING STRATA IS NOT REACHED AT THE BOTTOM OF FOOTING ELEVATION, THE FOOTINGS SHALL BE UNDERCUT UNTIL ACCEPTABLE MATERIAL IS REACHED. FILL UNDERCUT WITH LEAN CONCRETE (300 PSI @ 28 DAYS) TO BOTTOM OF FOOTING ELEVATION. EXCAVATIONS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING REBAR OR FLOWABLE FILL.
- REFER TO THE MAXIMUM ALLOWABLE REACTION NOTE ON SEE SHEET S1.1, FOR ALLOWABLE REACTIONS FROM THE METAL BUILDING COLUMNS.
- SUBGRADE MATERIALS SHALL NOT BE ALLOWED TO DRY OUT DURING EARTHWORK OR FOOTING EXCAVATIONS, NOR SHALL THEY BE ALLOWED TO BECOME SATURATED. FOLLOW GEOTECHNICAL RECOMMENDATIONS REGARDING SITE PREPARATION. IF DURING EARTHWORK OPERATIONS EXPANSIVE SOILS ARE ENCOUNTERED, CONTACT GEOTECHNICAL ENGINEER FOR FURTHER DIRECTION. NOTIFY ARCHITECT PRIOR TO IMPLEMENTING ADDITIONAL UNDERCUT/EARTHWORK.
- FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS PROVIDED BY GARNER ENGINEERING, P.A.
- PRIOR TO THE BEGINNING OF THE SITE WORK, THE GENERAL CONTRACTOR SHALL EMPLOY GEOTECHNICAL SERVICES TO OBSERVE SITE WORK OPERATIONS. IF THESE SERVICES ARE NOT FROM GARNER ENGINEERING, THEY SHALL CONTACT GARNER ENGINEERING TO REVIEW THE SITE WORK AND FOUNDATION REQUIREMENTS OF THE PROJECT BEFORE THE BEGINNING OF WORK.

**MAXIMUM ALLOWABLE REACTION NOTE:**  
IF METAL BUILDING MANUFACTURER'S REACTIONS EXCEED THOSE SHOWN ON THE DETAILS FOUNDATIONS, HAIRPINS, AND TIE BEAMS MAY HAVE TO BE INCREASED AT THE CONTRACTOR'S EXPENSE.

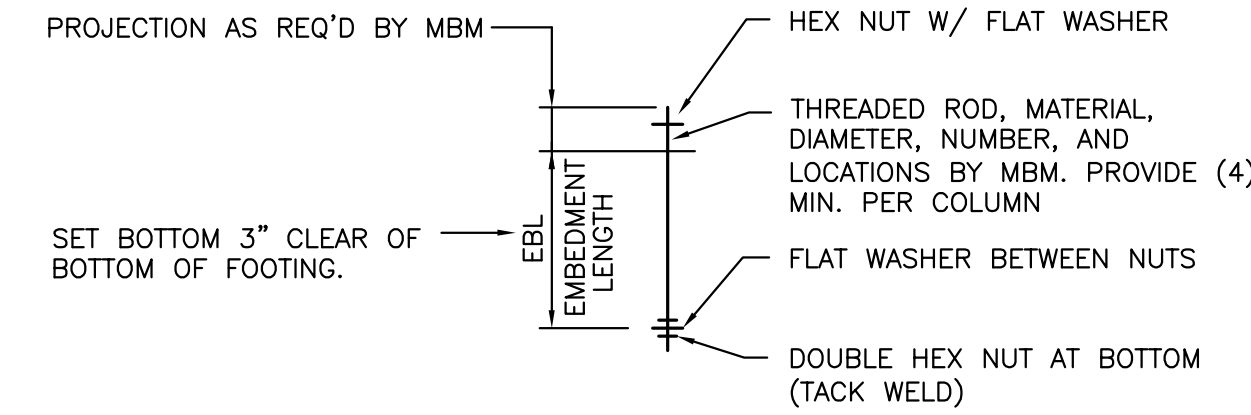
**GENERAL CONCRETE NOTES:**

- AMERICAN CONCRETE INSTITUTE SPECIFICATIONS SHALL GOVERN ALL PHASES OF CONCRETE CONSTRUCTION.
- CONCRETE PLACEMENT SHALL BE AS NOTED IN THE CONCRETE PLACEMENT SCHEDULE BELOW. SEE SPECIFICATIONS FOR MIX DESIGN REQUIREMENTS.
- ALL REINFORCING STEEL SHALL BE GRADE 60 REBAR FOR TIE BEAMS AND HAIRPIN REINFORCING SHALL BE SPLICED W/ MECHANICAL DEVICES. SEE SPECIFICATIONS.
- GENERAL CONTRACTOR SHALL VERIFY ALL CONCRETE DIMENSIONS, INSERTS, SLEEVES, AND OPENINGS WITH ALL TRADES BEFORE PLACING CONCRETE. ALL SLEEVES FOR CONDUIT, OR OTHER INSERTS SHALL BE PLACED PRIOR TO CONCRETE. NO CONCRETE SHALL BE BROKEN OUT TO PLACE ELECTRICAL, MECHANICAL, OR SIMILAR ITEMS WITHOUT THE PERMISSION OF THE ARCHITECT.
- VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO PLACING ANY CONCRETE. IF THERE ARE DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS, CONTACT THE ARCHITECT BEFORE COMMENCING WITH WORK.
- CONCRETE PLACEMENT FOR SLABS SHALL BE CLOSELY COORDINATED WITH WEATHER CONDITIONS TO PREVENT RAPID MOISTURE LOSS OR TEMPERATURE SWINGS. ADEQUATE WIND BREAKS AND COLD/HOT WEATHER PROTECTION SHALL BE PROVIDED TO MAINTAIN ACCEPTABLE TEMPERATURES AT ALL TIMES DURING CURING.
- TWO WEEKS PRIOR TO PLACING ANY EXPOSED CONCRETE SLABS, THE CONCRETE FINISHER, THE CONCRETE SUPPLIER, ARCHITECT'S REPRESENTATIVE, AND CONTRACTOR SHALL MEET TO DISCUSS MIX DESIGN, ADEQUATE PROTECTION, CURING, SIZE OF SLAB PLACEMENTS, ETC.
- EXPOSED SLABS SHALL BE REVIEWED FOR CRACKING DETRIMENTAL TO FINISH. SLABS/WALLS TO BE EXPOSED TO VIEW MAY REQUIRE REMOVAL IF THEY ARE DAMAGED OR CRACKING OCCURS THAT WILL BE DETRIMENTAL TO THE FINISH/APPEARANCE OF THE FINAL PRODUCT.
- PRIOR TO PLACING CONCRETE IN FOOTINGS AND SLABS AN INDEPENDENT INSPECTOR SHALL CONFIRM REINF SIZE AND PLACEMENT CONFORMS TO THESE PLANS AND SPECIFICATIONS.

CONCRETE PLACEMENT SCHEDULE	
CONCRETE MIX TYPE	PLACEMENT
4,000 PSI WITH AIR-ENTRAIMENT	EXTERIOR PAVING, CURBS, SIDEWALKS, STEPS, PADS,
4,000 PSI NO AIR-ENTRAIMENT	INTERIOR FLOOR SLABS
3,000 PSI NO AIR-ENTRAIMENT	FOOTINGS

**GENERAL FRAMING NOTES:**

- BRACE AND GUY UNTIL ALL FINAL CONNECTIONS ARE MADE.
- ALL STRUCTURAL STEEL MEMBERS SHALL MEET THE FOLLOWING CRITERIA:  
A. WIDE FLANGE SHAPES - Fy=50 KSI. CONFORM TO ASTM A-992.  
B. ANGLES, CHANNELS, & PLATES LESS THAN 1/2" THICK-Fy=36 ksi. CONFORM TO ASTM A-36.  
C. PLATES 1/2" THICK & GREATER & BARS - Fy=50 ksi. CONFORM TO ASTM A-572.  
D. COLD FORMED TUBING - Fy=46 ksi. CONFORM TO ASTM A-500 GRADE B.  
E. ELECTRICAL RESISTANCE WELDED PIPE Fy=35 ksi. CONFORM TO ASTM A-53 GRADE B.
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS SHALL GOVERN ALL PHASES OF STEEL CONSTRUCTION.
- ALL WELDING IN ACCORDANCE WITH A.W.S REQUIREMENTS FOR E70XX ELECTRODES.
- ALL BOLTS SHALL BE 3/4" DIA. A325N, UNO.
- BEAR STEEL ANGLE LINTELS 6" EACH SIDE OF OPENING UNO.
- WHEN WELDING OR USING A TORCH IN OR AROUND EXISTING BUILDINGS OR FINISHED AREAS, (FINISHED ROOMS, ATTICS, ON ROOFS, ETC.) PROVIDE FIRE BLANKETS, FIRE WATCHES, ETC. TO PREVENT FIRES OR FIRE DAMAGE.
- FIRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED FOR BUILDING DESIGN LOADS SHOWN ON THIS SHEET AND SHALL MEET THE FOLLOWING:  
A. REFER TO ARCHITECTURAL PLANS FOR EAVE HEIGHTS, ROOF SLOPES, TOP OF FRAME ELEVATIONS, AND CLEARANCES BENEATH FRAMES, COLUMNS, FRAMES, AND RAFTER SHALL NOT INTERFERE WITH ARCHITECTURAL FINISHES.  
B. PROVIDE SECONDARY FRAMING TO SUPPORT ITEMS SHOWN ON THE FRAMING PLANS INCLUDING MECHANICAL UNITS, EXHAUST FANS, LOUVERS, MASONRY, SCOREBOARDS, SPIRAL DUCTWORK, ROOF HATCHES, PARAPETS, SCREENWALLS, ETC. VERIFY SIZE, WEIGHT, AND LOCATION WITH MECH. AND ARCHITECTURAL DRAWINGS AND RESPECTIVE SUPPLIERS.  
C. PROVIDE FRAMING FOR ALL OPENINGS IN STANDING SEAM METAL ROOFS AND PROVIDE FRAMED OPENINGS AT METAL WALL PANEL THAT IS FRAMED WITH GIRTS.  
D. MBM TO DESIGN AND PROVIDE ALL GIRTS NOT SIZED ON THE DRAWING AND THEIR CONNECTION TO THE COLUMNS, INCLUDING (HG) FOR APPLICABLE WIND AND SEISMIC LOADS NOTED IN BUILDING DESIGN NOTES. GIRT TO COLUMN CONNECTIONS SHALL BE SLOTTED AT EACH END OF GIRT TO ALLOW 3/4" MOVEMENT ALONG AXIS OF GIRT. SEE SPECIFICATIONS FOR DEFLECTION REQUIREMENTS.  
E. REFER TO THE DRAWINGS AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THE DESIGN, SUBMITTALS, DEFLECTION REQUIREMENTS, ETC. FOR THE METAL BUILDING SYSTEM.
- AN INDEPENDENT INSPECTOR SHALL BE ON SITE TO INSPECT METAL BUILDING IS ERECTED IN ACCORDANCE WITH THE METAL BUILDING SHOP DRAWINGS INCLUDING BOLTED CONNECTIONS, FLANGE BRACES, ANCHOR BOLT CONNECTIONS, GIRT CONNECTIONS.



**1**  
**S1.1**  
TYPICAL ANCHOR BOLT FOR MBM COLS.  
NTS

**BUILDING DESIGN LOADS:**

- THE FOLLOWING LOADS AS PER IBC 2021 AND THE LATEST EDITION OF THE ARKANSAS FIRE PREVENTION CODE
- GRAVITY LOADS:  
a. METAL BUILDING:  
- UNIFORM DEAD = SELF WEIGHT OF FRAMES, PURLINS, SSMR, INSULATION  
- UNIFORM LIVE = 20 PSF (4 PSF MAX. REDUCTION FOR FRAMES)  
- UNIFORM COLLATERAL = 6 PSF  
- CONCENTRATED LOADS WHERE NOTED ON DRAWINGS.
  - WIND LOADS:  
- ULTIMATE WIND SPEED (V) = 106 MPH  
- WIND IMPORTANCE FACTOR (I) = 1.0  
- RISK CATEGORY = II  
- INTERNAL PRESSURE COEFFICIENTS (Gcpi) = ±.18  
- EXPOSURE CATEGORY = C
  - SNOW LOAD CRITERIA:  
- GROUND SNOW LOAD (Pg) = 10 PSF  
- SNOW EXPOSURE FACTOR (Ce) = 1.0  
- IMPORTANCE FACTOR (I) = 1.0  
- THERMAL FACTOR (Ct) = 1.0
  - SEISMIC LOAD CRITERIA:  
- RISK CATEGORY = II  
- IMPORTANCE FACTOR = 1.0  
- SPECTRAL RESPONSE COEFFICIENTS  
I. Ss = 0.517  
II. S1 = 0.196  
III. S0s = 0.31  
IV. S01 = 0.104  
- SITE CLASS = B (PER SOILS ENGINEER)  
- SEISMIC DESIGN CATEGORY = B  
- BASIC SEISMIC RESISTING SYSTEM - ORDINARY STEEL MOMENT FRAMES R=3
  - CONSTRUCTION LOADS (SCISSORS LIFTS, FORKLIFTS, ETC.) SUPPORTED BY SLABS-ON-GRADE AND STRUCTURAL SLABS SHALL BE ANALYZED BY AN INDEPENDENT STRUCTURAL ENGINEER. THE COST OF THE ANALYSIS SHALL BE PAID FOR BY THE CONTRACTOR. THE ANALYSIS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL. HOWEVER, ENGINEER OF RECORD IS NOT RESPONSIBLE SHOULD DAMAGE TO THE SLAB OR STRUCTURE OCCUR.

**STRUCTURAL LEGEND**

- |       |  |
|-------|--|
| AA    | ADHESIVE ANCHOR - SEE SPECS.                         |
| BF    | BOTTOM OF FOOTING                                    |
| BOD   | BOTTOM OF DECK                                       |
| BOF   | BACK OF FRAME  |
| BOS   | BOTTOM OF STEEL BEARING                              |
| BRG.  | BEARING  |
| CJ    | KEYED CONTROL JOINT - SEE 3/S2.1                     |
| CLR.  | CLEAR  |
| CSRFF | CLEAR SPAN RIGID FRAME BE MBM COMMON TRUSS EACH FACE |
| CT    | CONCENTRATED LOADS                                   |
| EF    | EXPANSION JOINT                                      |
| EJ    | EAVE STRUT BY MBM                                    |
| ES    | EAVE STRUT BY MBM                                    |
| EQ    | EQUAL  |
| EW    | EAVE STRUT BY MBM                                    |
| FF    | FINISHED FLOOR                                       |
| FG    | FINISHED GRADE                                       |
| FOC   | FACE OF CONCRETE                                     |
| H     | HIGH   |
| HG    | HORIZONTAL GIRT                                      |
| HRB   | HORIZONTAL ROD BRACE BY MBM                          |
| HS    | HEADED STUD  |
| L     | LOW  |
| LG    | LONG   |
| LLH   | LONG LEG HORIZONTAL                                  |
| LLV   | LONG LEG VERTICAL                                    |
| LT    | LINTEL - SEE SCHEDULE FOR EACH BUILDING              |
| MBM   | METAL BUILDING MANUFACTURER                          |
| MSEWF | MULTI-SPAN ENDWALL FRAME BY MBM                      |
| MSRF  | MULTI-SPAN RIGID FRAME BY MBM                        |
| MWP   | METAL WALL PANEL                                     |
| O.C.  | ON CENTER  |
| O.H.  | OPPOSITE HAND  |
| PAF   | POWDER ACTUATED FASTENER - SEE SPECS.                |
| SB    | SECONDARY BEAM BY MBM                                |
| SCJ   | SAWN CONTROL JOINT - SEE 2/S2.1                      |
| SIM.  | SIMILAR  |
| SSMR  | STANDING SEAM METAL ROOF                             |
| TB    | TIE BEAM   |
| TOM   | TOP OF MASONRY                                       |
| TOS   | TOP OF STEEL   |
| TOW   | TOP OF WALL  |
| UNO   | UNLESS NOTED OTHERWISE                               |
| VIF   | VERIFY IN FIELD                                      |
| VXB   | VERTICAL 'X' BRACE BY MBM                            |
| WWF   | WELDED WIRE FABRIC                                   |
| ----  | ----- DENOTES SAWN CONTROL JOINT                     |

**SPECIAL INSPECTIONS:**

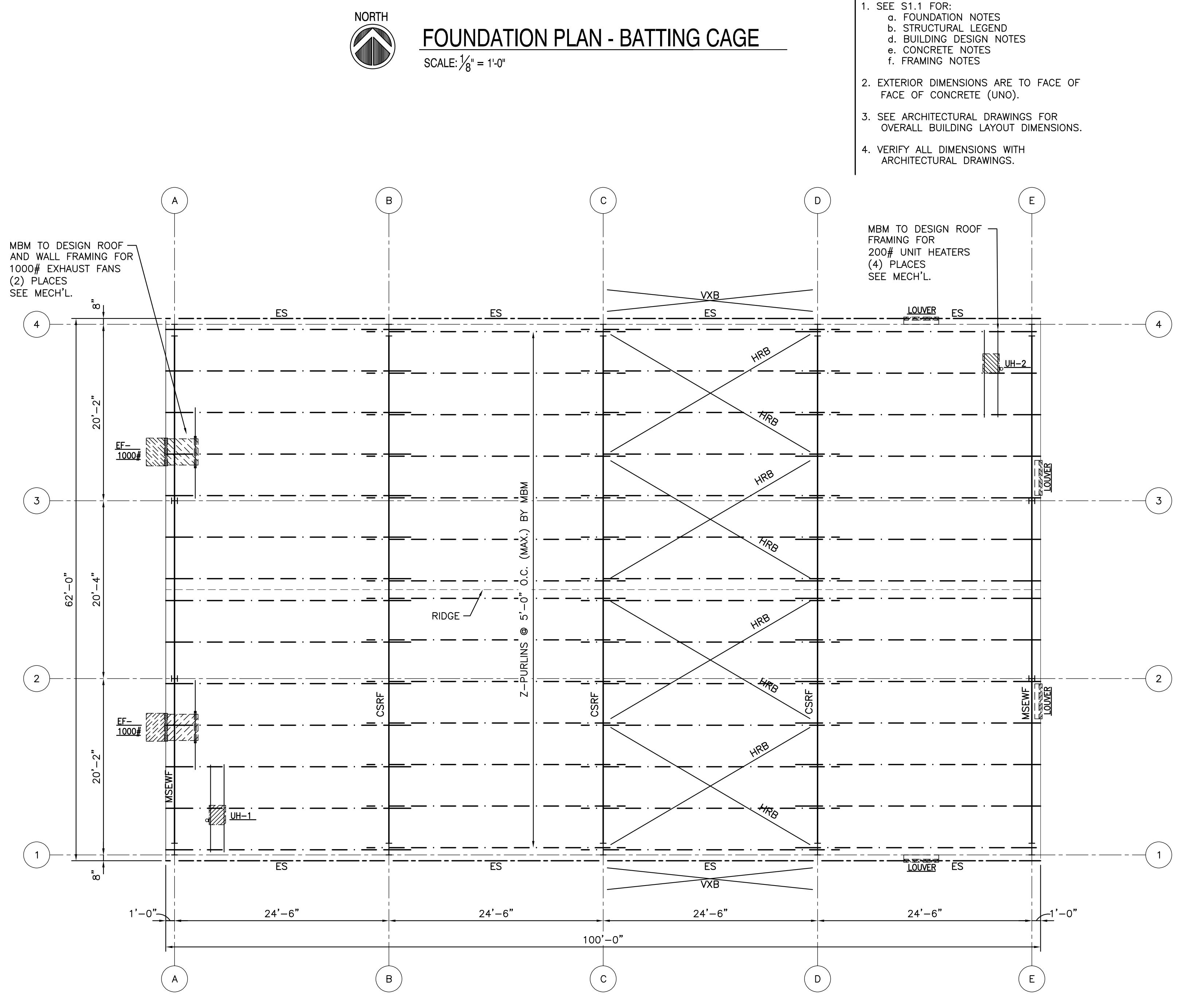
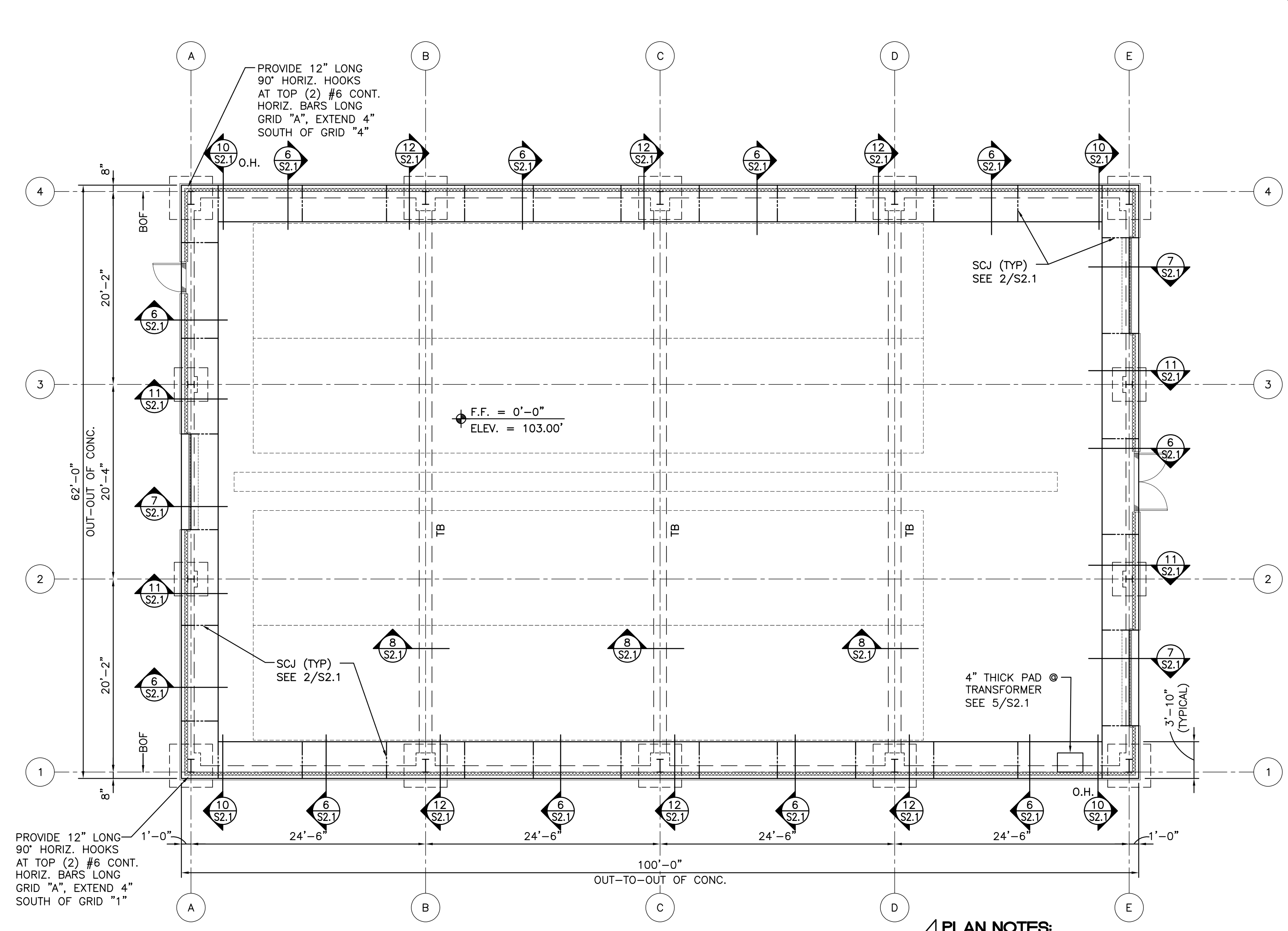
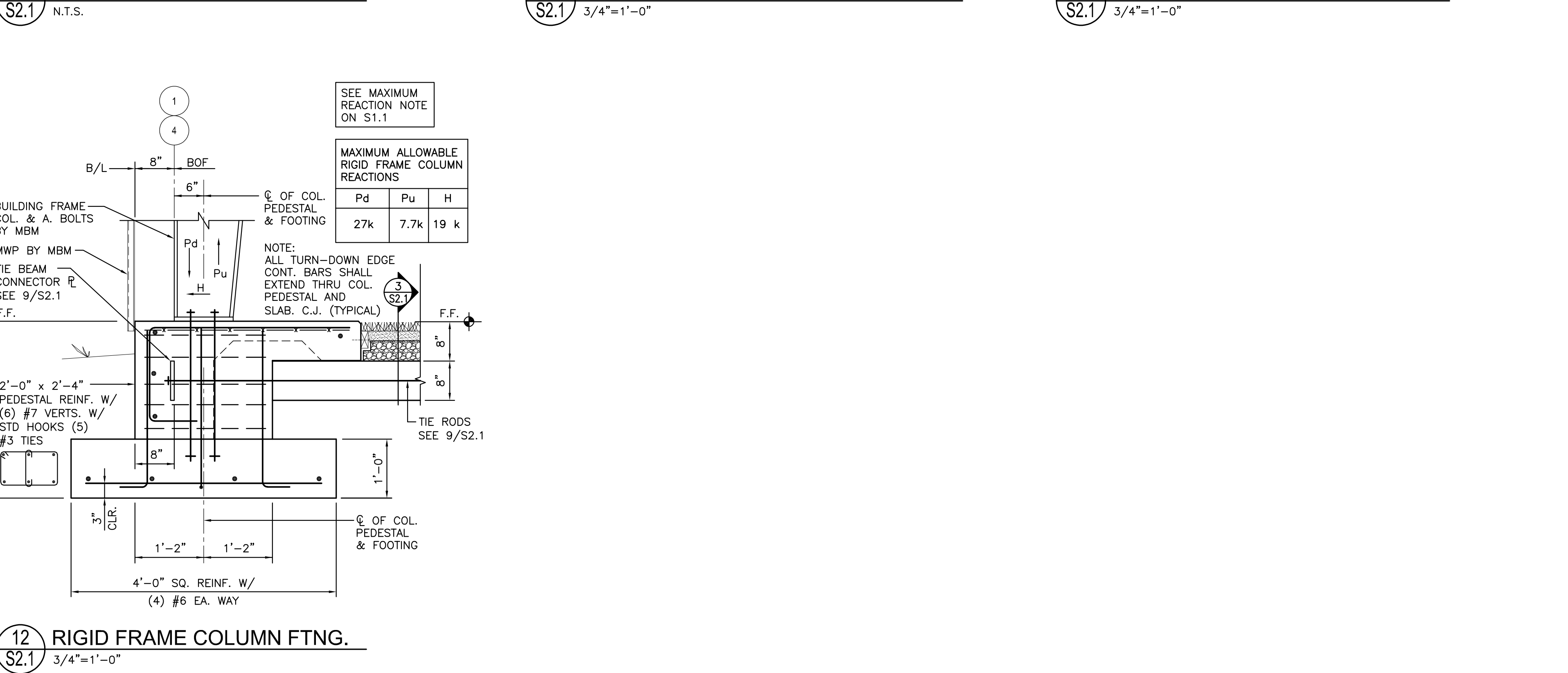
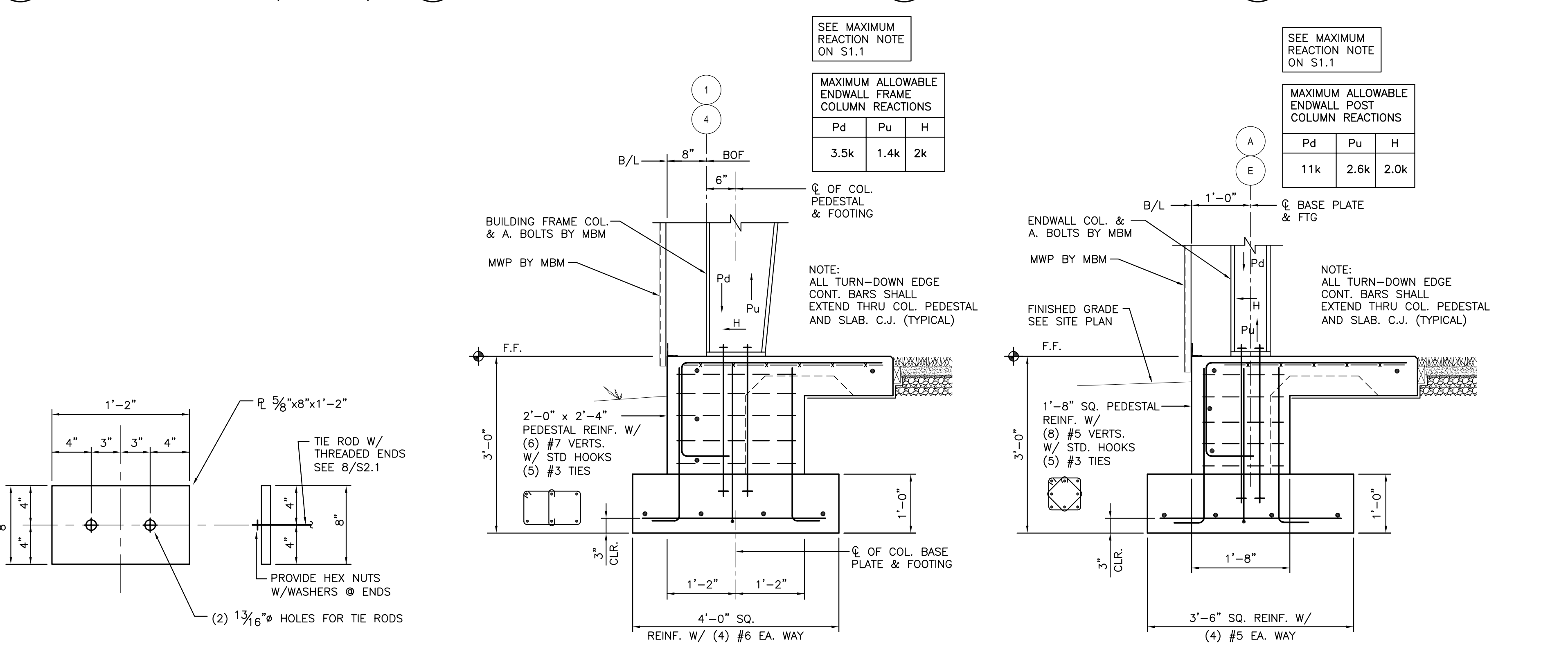
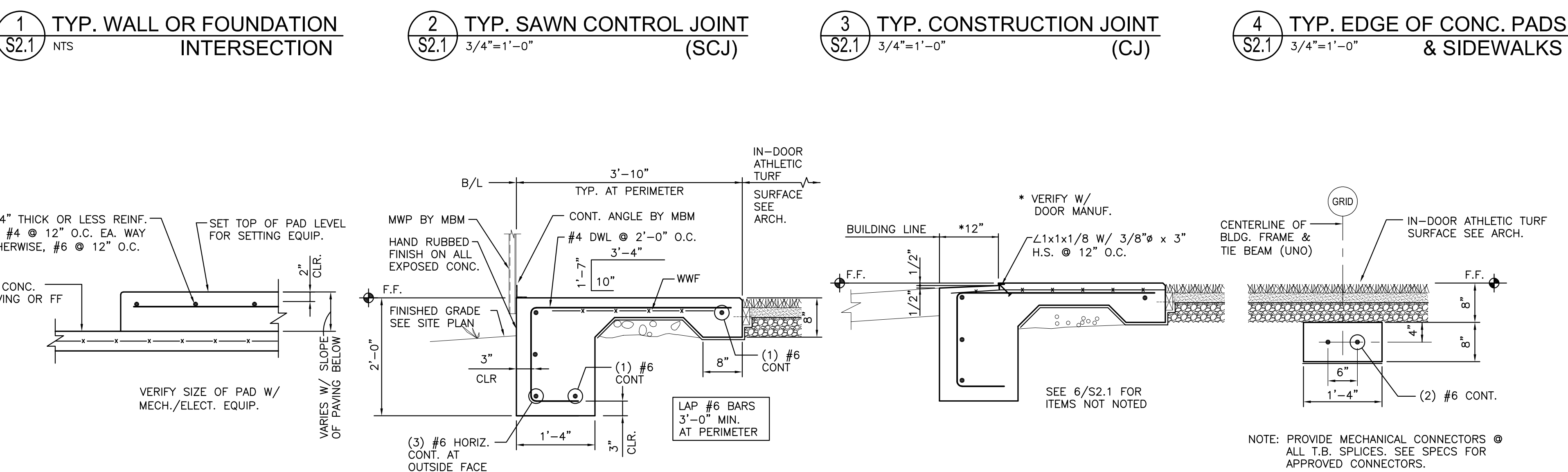
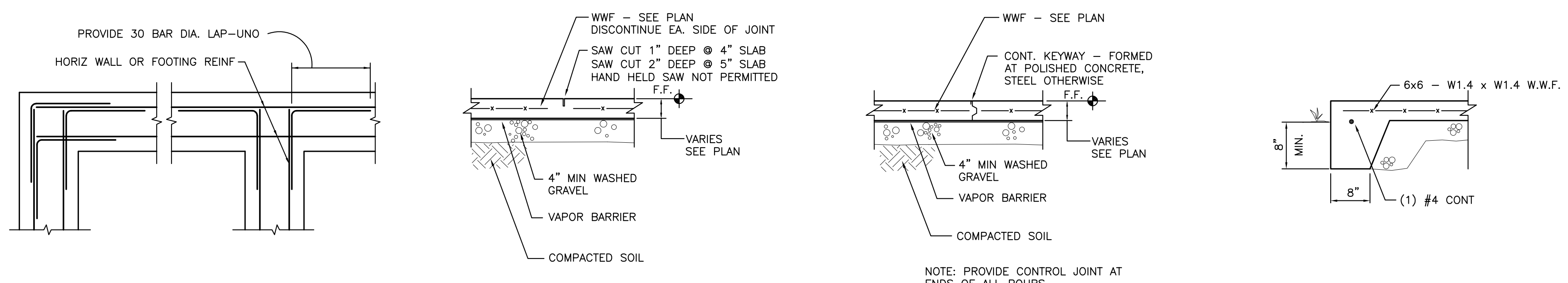
- PROVIDE THE FOLLOWING SPECIAL INSPECTIONS:  
GENERAL CONTRACTOR IS RESPONSIBLE TO NOTIFY SPECIAL INSPECTOR 48 HRS BEFORE WORK IS READY FOR INSPECTION.
- SEE CONCRETE NOTE 9.
  - SEE FOUNDATION NOTES 5, 7, & 11.
  - SEE GENERAL FRAMING NOTE 9.

**SEISMIC NOTE:**

I HEREBY CERTIFY THAT THE FOUNDATION & FRAMING PLANS, DETAILS, AND SPECIFICATIONS HAVE BEEN PREPARED BY ME OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS ARE AS REQUIRED AND IN COMPLIANCE WITH ACT 1100 (SEISMIC LAW). REFER TO THE BUILDING DESIGN LOADS ON THIS SHEET FOR SEISMIC DESIGN CRITERIA. DATE: SEPTEMBER 20, 2024

*Robert E. Gatlin*

ROBERT E. GATLIN, P.E., AR #9238



# HEATING, VENTILATION AND AIR CONDITIONING

## PART ONE - GENERAL

### 1.1 DESCRIPTION

1.1.1 **Work included:** This specification includes the furnishing of all labor, materials, tools, equipment, drayage, rigging, fees, permits, etc., unless specifically furnished by others, necessary or reasonably required, for the complete installation and operation of all the work as herein specified and/or as shown on the Drawings. The entire work shall be delivered in a complete and perfect working order to the satisfaction of the Architect.

1.1.2 The scope of the work shall include the general listings as shown below in addition to which this contractor shall furnish and install all required pipe, fittings, valves, hangers, supports, sleeves, insets, traps, and other such equipment, items, and accessories as may be required for a complete and operative system or systems, including all parts auxiliary to the system or systems whether or not specifically set forth herein and/or shown on the Drawings.

- Systems of Liquefied Propane Gas
- Miscellaneous equipment and accessories
- Tests, inspections, balancing and adjustment

### 1.2 APPLICABLE GENERAL SPECIFICATIONS AND REGULATIONS

1.2.1 The General Conditions, Supplementary Conditions, Instruction to Bidders and other pertinent documents, as issued by the Architect, are a part of these specifications and shall be complied with in every respect.

1.2.2 All Heating, Ventilation and Air Conditioning work and equipment, in whole or in part, shall conform to the applicable sections of the latest edition of the following ordinances, codes, and regulations which shall form a part of this specification.

- National Electrical Code
- Liquefied Petroleum Gas code Recommended Practices
- National Fire Protection Association Recommended Practice
- Local, City and State Codes and Ordinances
- American Society of Mechanical Engineers Plumbing and Air Conditioning Codes

### 1.3 SUBMITTALS

1.3.1 The Contractor shall furnish electronic shop drawings using the submittal procedure as detailed in Section 01 33 23. Shop drawings are required even though the equipment is as specified.

1.3.2 All submittals must be on the manufacturer's standard certified submittal sheets or other approved sheets. Faxed material will not be accepted. Each item must be marked with the symbol, letter, or number designating it in the specifications or on the plans and items must be arranged in the order specified or scheduled.

1.3.3 All performance data, details, dimensions, special features and accessories must be clearly marked.

1.3.4 Substitutions will not be considered without prior approval from the engineer.

1.3.5 Shop drawings are required even though the equipment is as specified.

1.3.6 Provide shop drawings on the following items:

- Louvers
- Unit Heaters
- Exhaust Fans
- Gas Valves
- All accessories

1.3.7 If there are electrical revisions required due to substitute equipment, the Mechanical Contractor shall be responsible for any additional changes incurred by the Electrical Contractor.

1.3.8 When submitting substitute equipment with different rough-in requirements from the specified equipment, i.e. packaged unit ductwork openings, the Mechanical Contractor shall submit a sketch indicating the proposed installation for review by the Engineer. The Engineer may approve, revise or reject the proposal. If rejected, the Contractor shall provide the specified equipment or resubmit another approved substitute.

1.3.9 After shop drawings are approved, this contractor shall advise the General Contractor of any changes required in equipment supports and foundations and provide copies of shop drawings so that necessary provisions can be made.

1.3.10 Should a substitution be approved for use in lieu of that specified and should the substituted material prove defective or otherwise unsatisfactory, in the judgment of the engineer, for the service required within the warranty period, the contractor shall replace the material or equipment as originally specified without additional cost to the Owner.

1.3.11 If submittals are "not approved" or marked "revise and resubmit", the complete package shall be corrected and returned for review. The contractor may provide a separate bound submittal which includes only the sections marked "not approved," or "revise and resubmit." Any additional submittal data requested shall also be provided in resubmit.

### 1.4 COORDINATION

1.4.1 Chases, recesses and other openings in the building construction required for the location of pipes, or other, mechanical equipment, will be provided by the General Contractor. The mechanical Contractor shall advise the General Contractor of the sizes and locations, and furnish the necessary drawings in sufficient time to allow for provision of same; otherwise the additional cost caused thereby shall be paid by the mechanical contractor.

### 1.5 FEES AND PERMITS

1.5.1 Contractor shall pay for all fees, permits and charges for utility connections. This includes all fees required for improvement district non-refundable contribution.

### 1.6 OPERATION AND MAINTENANCE MANUALS

1.6.1 Refer to Section 01 77 19 - Contract Closeout for complete instructions.

### 1.7 CONTRACTOR REVISED DRAWINGS

1.7.1 The contractor shall, during the progress of the work, keep an accurate record of all changes and corrections from the layouts shown on the drawings. Record of changes may be kept by accurately making all changes on a set of prints during the progress of the job. Exact location of all underground utility service entrances and their connectors to utility mains as well as all valves, etc., which will be concealed in the finished work shall be accurately indicated on the drawings by measured distances. Upon completion of the work and prior to final payment, the contractor shall furnish to the Owner one set of "as-built" prints legibly and accurately marked to indicate all changes, additions, deletions, etc., from the Contract Drawings.

### 2. GAS VALVES

- 1/2" & 3/4" A.Y. McDonald 10710 low pressure ball valve with handle (interior only)
- 2" or smaller A.Y. McDonald 10685B flat-head iron body plug valve with check stop if installed on exterior

2.2 Gas regulators - Sensus Model 243-R (1-1/4" WC), size and capacities as required for pounds to ounce service. Model 043 may be used for low pressure/low demand appliances.

## PART THREE - EXECUTION

### 3.1.5 LP Gas piping, general

- 3.1.5.1 Provide full size drillings at all low points of the system and at each appliance.
- 3.1.5.2 Provide a gas cock, union and appliance regulator at each gas using appliance.
- 3.1.5.3 Gas regulators shall be size and capacities as required for pounds to ounce service.
- 3.1.5.4 Provide electrodes, sleeves, vents, valves, and comply with all applicable portions of the current Arkansas Liquefied Petroleum Gas Code. Minimum depth below grade shall be 18".

### 3.1.6 Liquid Propane gas system testing

- 3.1.6.1 Each segment of piping intended to be operated at pressure of less than 1 psig shall be given a leak test at a pressure of 25 psig for a period of 15 minutes without any drop in pressure. Use 3 inch gauge with 100 psig maximum scale.
- 3.1.6.2 Each segment of piping intended to be operated at a pressure of 1 psig or above shall be given a leak test at a pressure of 90 psig for a period of 15 minutes without any drop in pressure. Use 3 inch gauge with 150 psig maximum scale.

### 3.2 GUARANTEE

3.2.1 This Contractor shall furnish a written certificate, guaranteeing all materials, equipment, and labor furnished by him to be free of all defects for a period of one (1) year from and after, the date of final acceptance of the work by the Owner, and this Contractor shall further guarantee that if any defects appear within the stipulated guaranty period, such work shall be replaced without charge.

3.2.2 This guarantee shall be extended to include the capacity and integrated performance of the component parts of the various systems, in strict accordance with the true intent and purpose of the specifications. The Contractor shall conduct such tests as are herein before specified, or as may be required by the Architect, to demonstrate the capacity and performance ability of the various systems and their component parts.

END OF SECTION

## MECHANICAL GENERAL NOTES

- DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
- DUCT SIZES INDICATED ON PLANS ARE ACTUAL SHEET METAL SIZES AND DO ALLOW FOR INTERNAL INSULATION OF RECTANGULAR DUCT, IF APPLICABLE.
- ROUND BRANCH DUCT RUNOUTS SHALL BE SAME SIZE AS DIFFUSER THROAT UNLESS OTHERWISE NOTED.
- MOUNT ALL TEMPERATURE SENSORS &/OR THERMOSTATS AT 48" TO THE TOP OF THE BOX.
- FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTIONS TO DIFFUSERS. A MAXIMUM LENGTH OF THREE FEET (3') SHALL BE USED.
- ALL CEILING-MOUNTED SUPPLY DIFFUSERS SHALL HAVE FOUR-WAY (4-WAY) PATTERN UNLESS OTHERWISE INDICATED.
- WHERE SPLITTER DAMPERS ARE LOCATED ABOVE NON-ACCESSIBLE CEILINGS, PROVIDE EXTENDED CONTROL ROD AND REGULATOR AS SPECIFIED.
- WHERE MANUAL DAMPERS ARE INSTALLED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE STAND-OFF BRACKET TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.
- PROVIDE TURNING VANES IN ALL 90-DEGREE ELBOWS, UNLESS NOTED OTHERWISE.
- INTERNALLY INSULATE ALL RECTANGULAR SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK UNLESS NOTED OTHERWISE.
- EXHAUST DUCTWORK SHALL BE UNINSULATED, UNLESS OTHERWISE NOTED.
- EXTERNALLY INSULATE LOW-Velocity ROUND RUNOUT DUCTWORK.
- INSULATE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH A MINIMUM OF 1/2" THICK FIRE-RESISTANT DUCT WRAP.
- INSULATE ALL PIPING, DUCTS, AND EQUIPMENT, WHETHER INDICATED OR NOT, WHICH ARE SUBJECT TO FREEZING OR CONDENSATION FORMATION.
- INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
- VERIFY WITH EXISTING CEILING FOR EXACT LOCATION OF DIFFUSERS.
- COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS.
- COORDINATE LOCATIONS AND ELEVATION OF DUCT RUNS WITH PLUMBING AND ELECTRICAL CONTRACTORS.
- COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- COORDINATE GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.
- SCREWS TO SECURE AIR DEVICES SHALL BE PAINTED HEAD TYPE PROVIDED BY SERVICE MANUFACTURER. ANY OTHER TYPE USED WILL BE REPLACED WITH PROPER SCREWS BEFORE ACCEPTANCE.
- INSURE 10"-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKE VENTILATORS AND VENTS FOR FURNACE/PLUMBING AND EXHAUST VENTILATORS.

## MECHANICAL LEGEND

- DETAIL NUMBER - TOP NUMBER INDICATES DETAIL NUMBER, BOTTOM NUMBER INDICATES SHEET NUMBER
- GRILLE OR DIFFUSER DESIGNATION - SEE SCHEDULE
- REFRIGERANT PIPING (SUCTION AND LIQUID)
- T-STAT MOUNTED AT 48" TO THE TOP OF THE BOX

## HVAC ABBREVIATIONS

(SEE SHT T-1 FOR GENERAL ABBREVIATIONS)

- A.F.F. ABOVE FINISHED FLOOR
- ABV. ABOVE
- CFM CUBIC FEET PER MINUTE
- DISCH. DISCHARGE
- DN. DOWN
- MIN. MINIMUM
- OSA. OUTSIDE AIR
- PLUMB. PLUMBING
- R.A. RETURN AIR
- S.A. SUPPLY AIR
- T-STAT THERMOSTAT
- U.N.O. UNLESS NOTED OTHERWISE
- W/. WITH
- I.D. INTERNAL DIAMETER
- EXT. INSUL. EXTERNALLY INSULATED
- INT. INSUL. INTERNALLY INSULATED

## MECHANICAL EQUIPMENT SCHEDULE

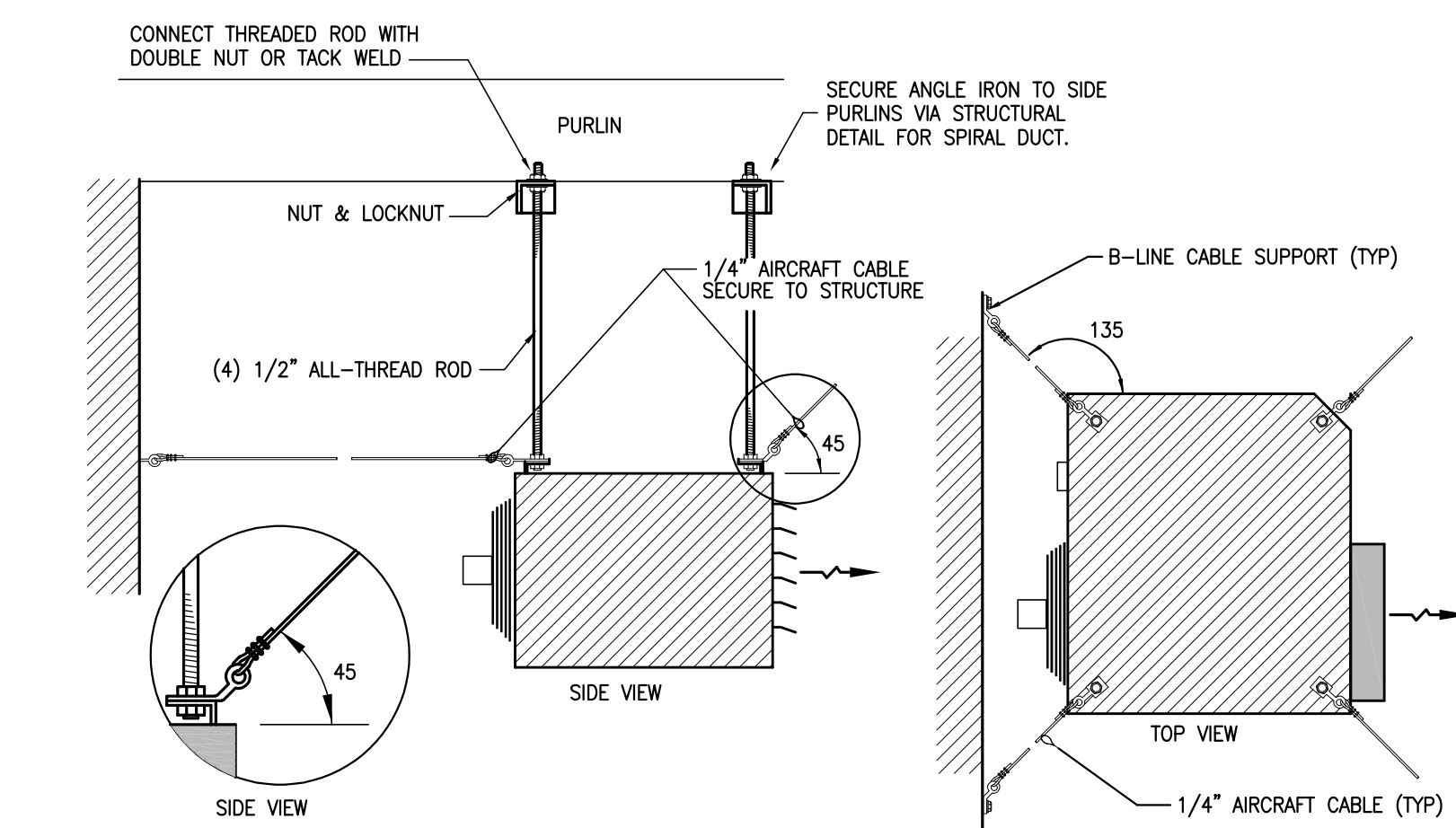
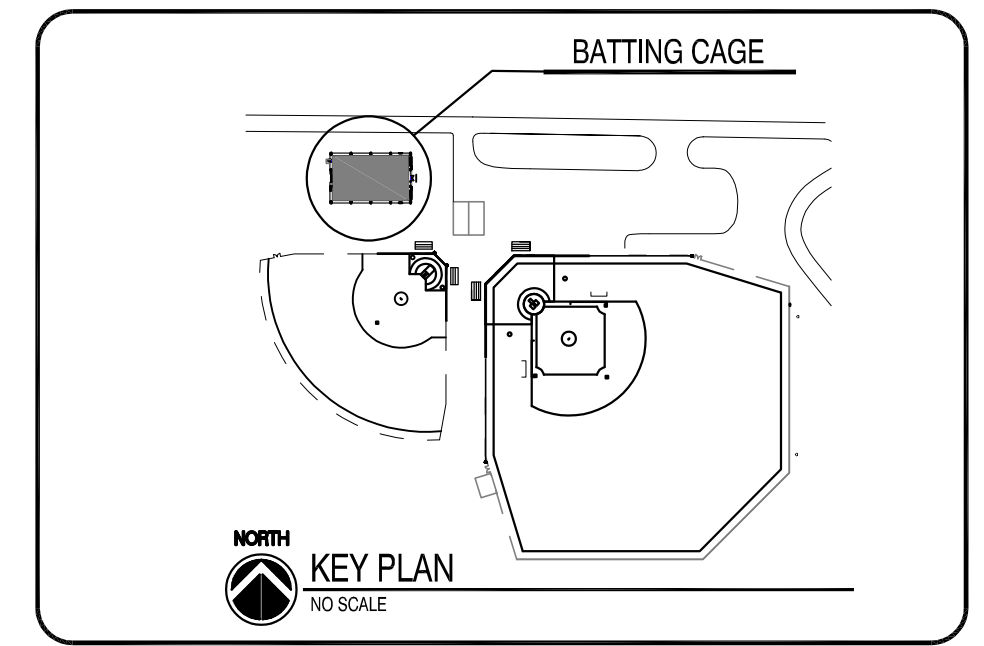
EF-1, 2	COOK 54XPH STEEL PROPELLER WALL FAN, 9,000 CFM AT 0.125" S.P. BELT DRIVE, (10 SONES MAX) 3/4 HP, 230V, 1 PHASE MOTORIZED SHUTTER WITH WEATHERHOOD, WALL SLEEVE, 1/2" MESH MOTOR GUARD, INTEGRAL NEMA 1 DISCONNECT. WEATHERHOOD FINISH SHALL BE AS SELECTED BY ARCHITECT. (INTERLOCKED PER ELECTRICAL PLANS WITH L-5, 6, 7, 8)
L-1, 2, 3, 4	RUSKIN EL63E260 EXTRUDED ALUMINUM COMBINATION DRAINABLE BLADE LOUVER 48"W X 48"H X 8", 7.48 SOFT FREE AREA, INSECT SCREEN, 120V DAMPER ACTUATOR, 12" MAX LOUVER DEPTH, BAKED ENAMEL, FINISH AS SELECTED BY ARCHITECT. (INTERLOCKED PER ELECTRICAL PLANS WITH EF-5 & 6).
UH-1, 2	REZNOR UDAP-150 GAS-FIRED UNIT HEATER, 150,000 BTUH INPUT, 124,500 BTUH OUTPUT, 83% COMBUSTION EFFICIENCY, 316 STAINLESS STEEL HEAT EXCHANGER, TWO-STAGE GAS VALVE, 115V, SINGLE PHASE, 3.8 MCA, 15 MOOP, TOTALLY ENCLOSED FAN MOTOR, 1921 CFM, 1,050 RPM, 18" DIAMETER FAN WITH FAN GUARD. PROVIDE WITH LOW VOLTAGE CONTROLS TRANSFORMER, WIRING TERMINAL STRIP, DIAGNOSTIC INDICATOR LIGHTS, MULTI-TRY DIRECT IGNITION WITH LOCKOUT, INTEGRATED FAN ONLY RELAY, HORIZONTAL VENT TERMINAL / COMBUSTION AIR INLET ASSEMBLY, AND DISCONNECT SWITCH.

### NOTES

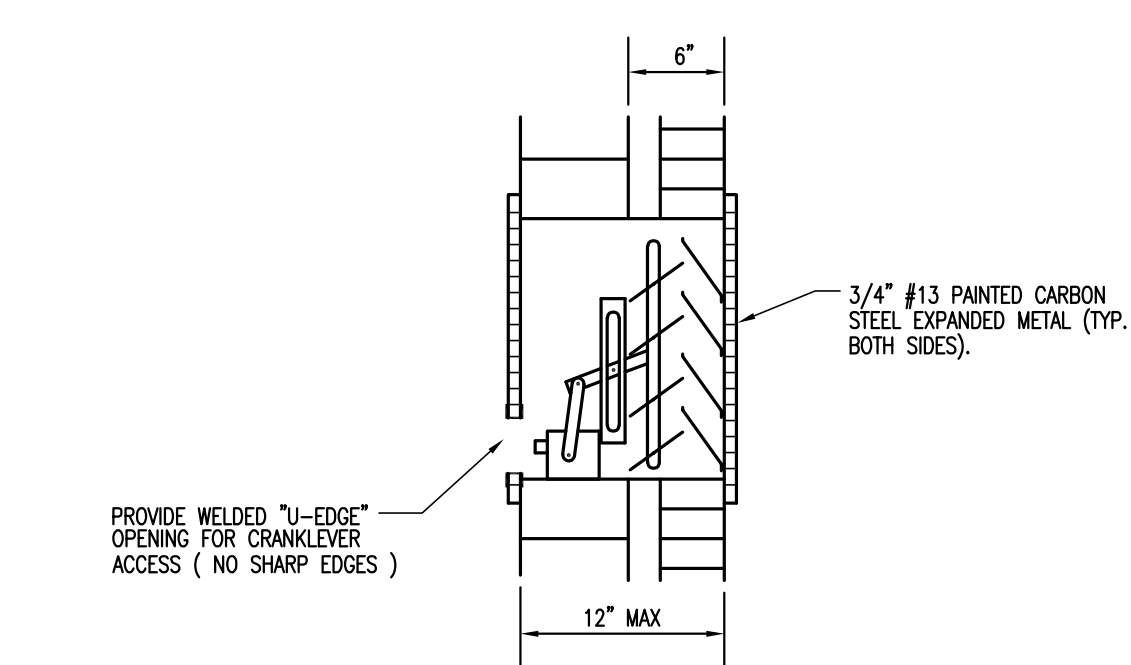
- ALL EXHAUST FANS SHALL HAVE FACTORY MOUNTED DISCONNECT SWITCH & SPEED CONTROLLER.
- EQUIPMENT EQUALS:
  - A. EXHAUST FANS - GREENHECK, TWIN CITY
  - B. LOUVERS - RUSKIN, GREENHECK, POTTYOFF

## SEQUENCE OF OPERATION

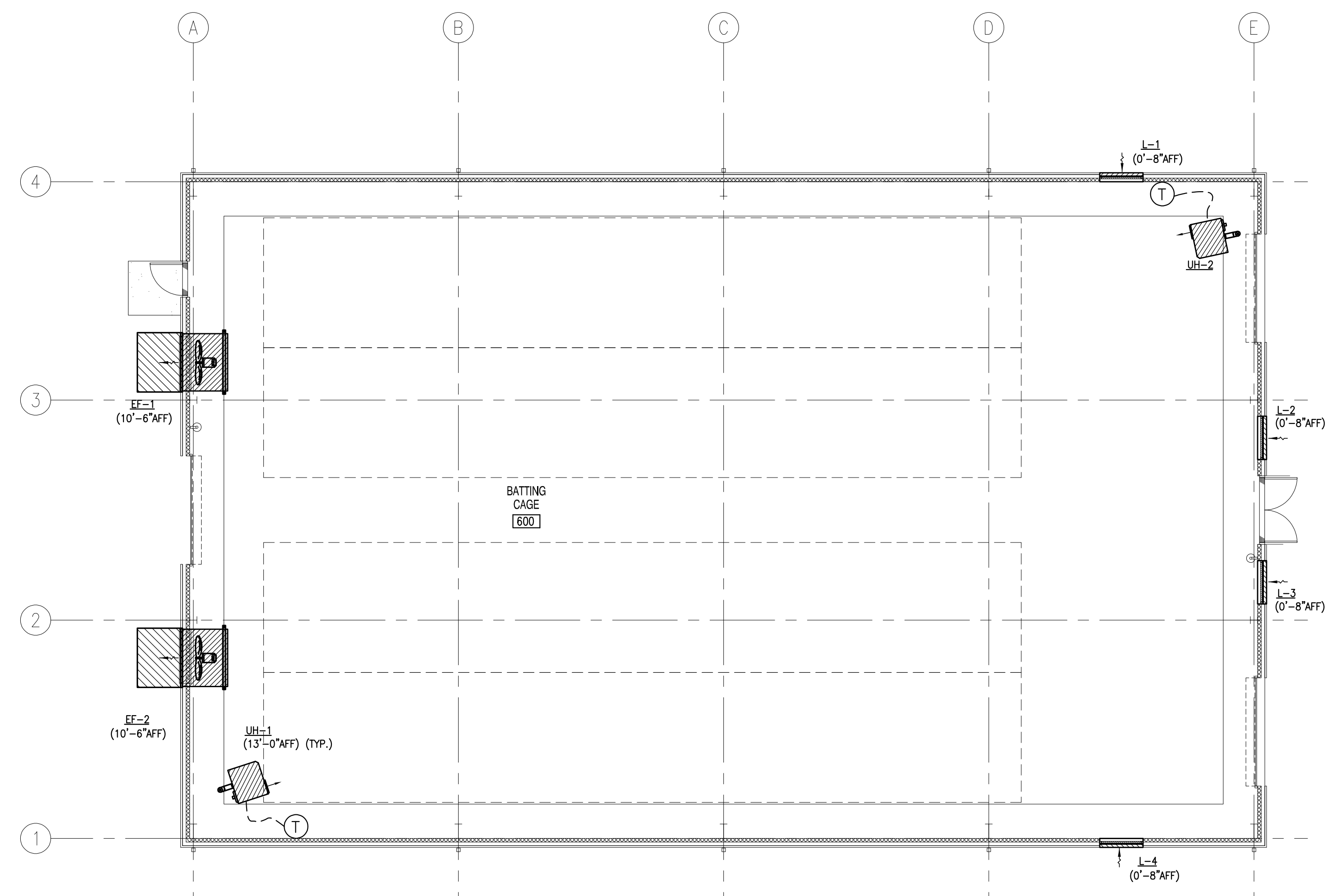
- FANS (EF-1, 2) SHALL BE CONTROLLED BY WALL MOUNTED MANUAL STARTER AND INTERLOCK WITH LOUVERS (BY ELECTRICAL). (INTERLOCK EF-1 WITH L-1 & 2, EF-2 WITH 3 & 4)
- GAS-FIRED UNIT HEATERS (UH-1 & UH-2) SHALL BE CONTROLLED BY HEATING ONLY THERMOSTAT SET TO 70°F (ADJUSTABLE) IN LOCKABLE WALL BOX.



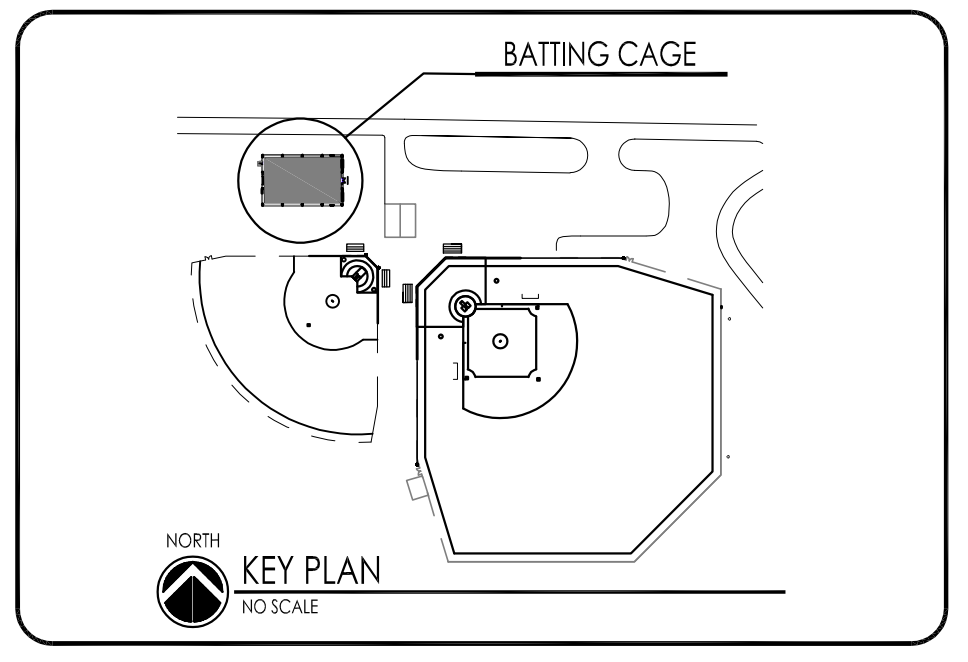
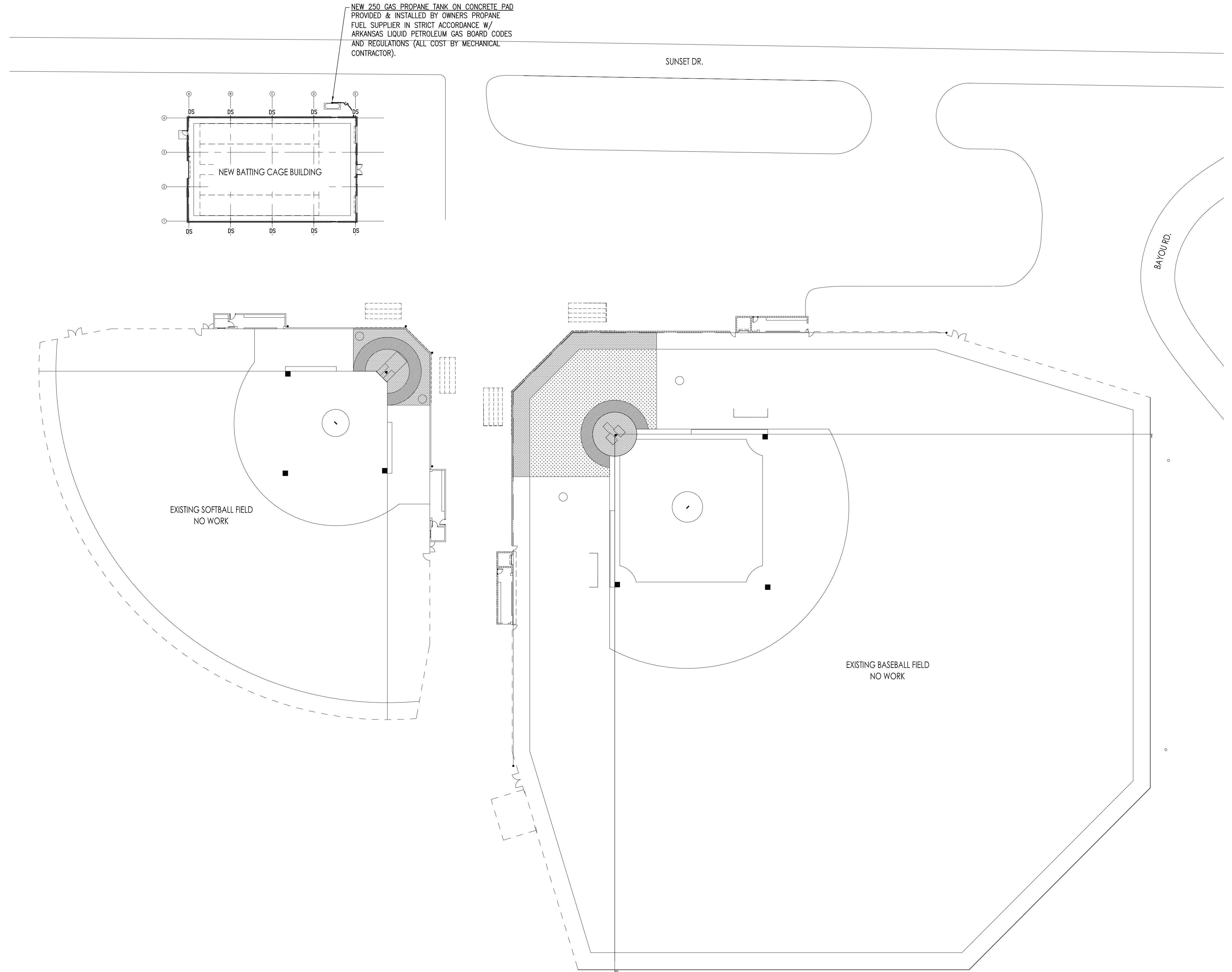
3 UNIT HEATER SEISMIC MOUNTING DETAIL  
M1.1 NTS



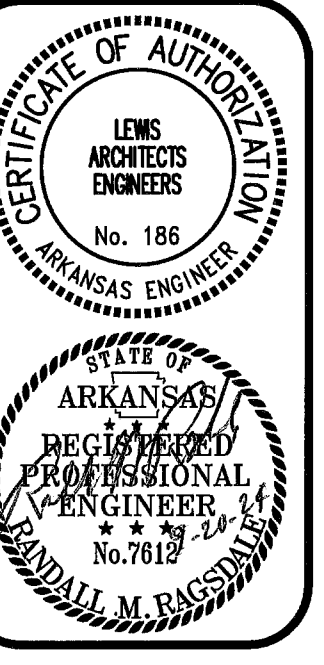
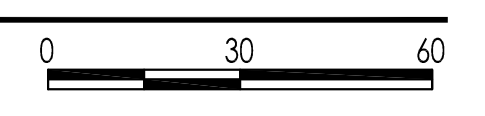
2 LOUVER MOUNTING DETAIL  
M1.1 NTS



1 FLOOR PLAN - BATTING CAGE BUILDING - HVAC  
M1.1 SCALE: 1/8" = 1'-0"



NORTH  
1  
P.0.1  
SCALE: 1" = 30'-0"



DATE: 2024 09-20  
PROJECT NO.: 24055  
DRAWN BY: RAB  
REVISION:

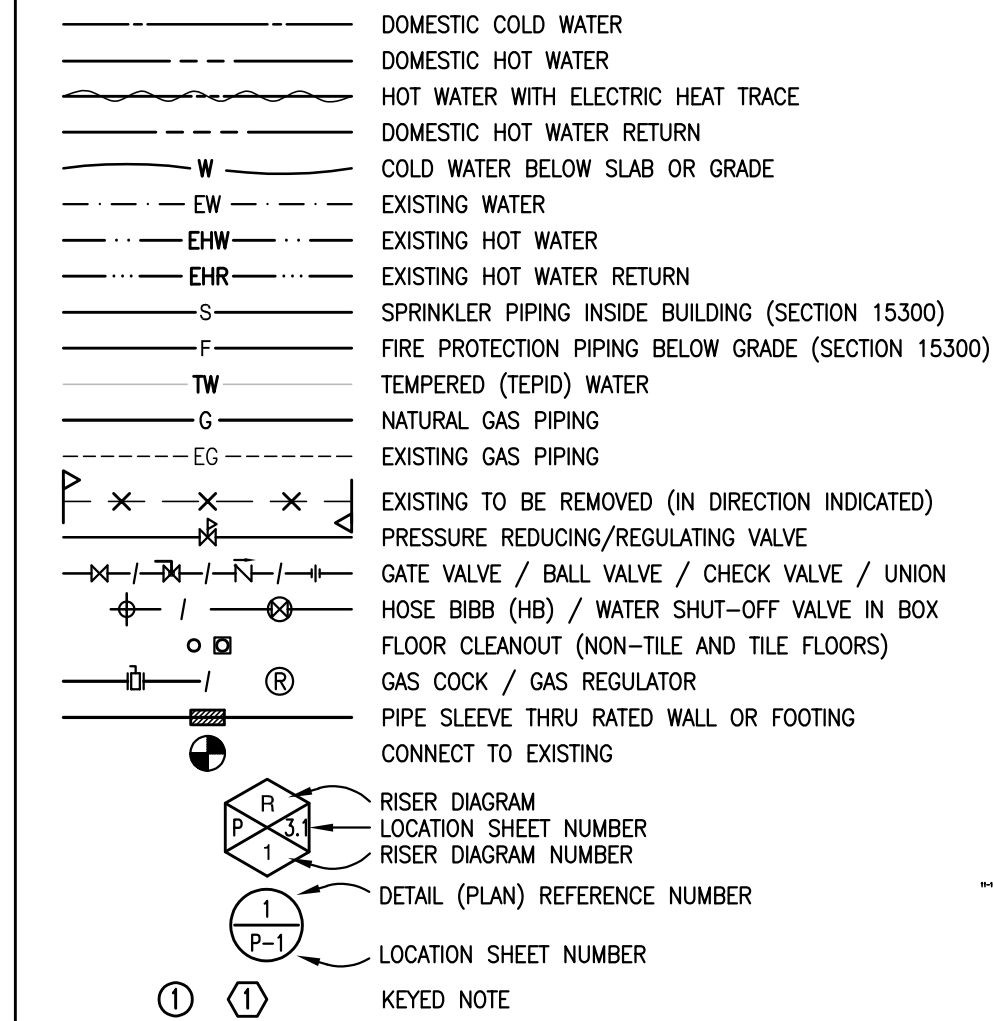


**PLUMBING GENERAL NOTES**

- CONTRACTOR TO FURNISH AND INSTALL:
  - SHUT-OFF VALVES ON ALL WATER AND GAS LINES PER SPECIFICATIONS.
  - SHOCK ABSORBERS FOR SNAP-ACTION VALVES.
  - ALL VALVES, TRIM AND TRAPS NECESSARY TO CONNECT OUTLETS PROPERLY.
- CONTRACTOR TO INSURE THAT ALL LINES ARE FLUSHED FREE OF FOREIGN MATTER BEFORE MAKING FINAL CONNECTIONS.
- ALL PIPES AND RELATED ROUGH-IN MATERIAL ARE TO BE RUN UNDEPOSED UNDER FLOORS, IN WALLS AND ABOVE FINISHED CEILING WHERE POSSIBLE UNLESS NOTED OTHERWISE IN SPECIFICATIONS OR DRAWINGS.
- ROUGH-IN FOR FLUSH VALVES SHALL BE ON THE RIGHT-HAND SIDE OF THE FIXTURE (ALL BARRIER-FREE WATER CLOSETS SHALL BE ROUGHED-IN FOR FLUSH VALVE HANDLE OR TANK TRIP LEVER ON LAVATORY SIDE OR FOR HANDLE OR TRIP LEVER OPPOSITE SIDE WALL WITH GRAB BAR, AS APPLIES). ROUGH-IN FOR LAVATORIES AND SINKS SHALL BE ON THE RIGHT FOR COLD AND THE LEFT FOR HOT.
 

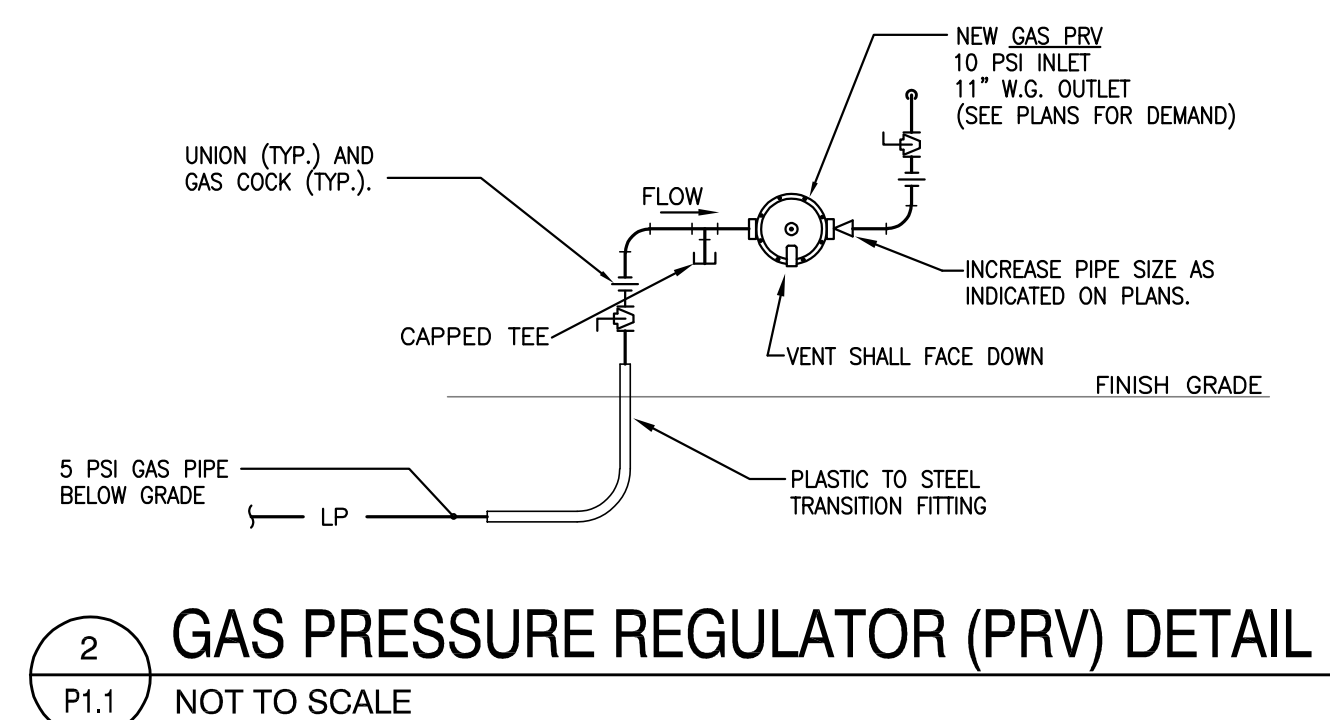
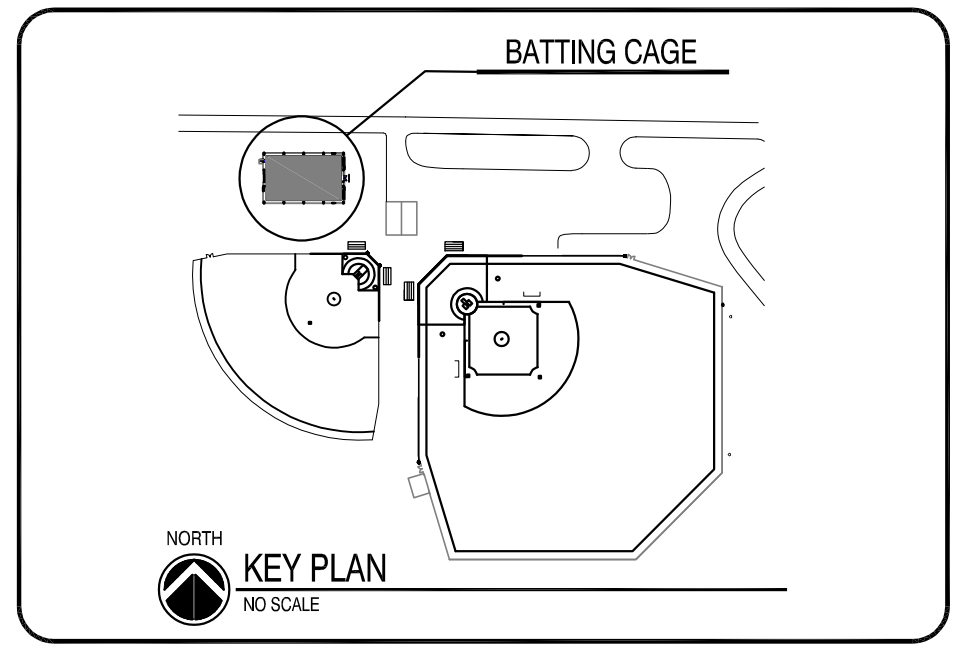
**NOTE:** INSTALL FLUSH VALVES PLUMB IN BOTH DIRECTIONS WITH ESCUTCHEONS SECURE AND TIGHT TO WALL.
- ALL WATER PIPING INSTALLED IN THE ATTIC SPACE SHALL BE ROUTED BELOW LAY-IN CEILING INSULATION. IN AREAS WHERE CEILING INSULATION IS NOT INSTALLED THE MAXIMUM HEIGHT FOR WATER LINES SHALL BE 1'-0" ABOVE FINISH CEILING.
- COORDINATE ALL VENTS THROUGH ROOF WITH ROOFING CONTRACTOR.
- PROVIDE DIRT LEG, GAS COCK AND UNION AT ALL FINAL CONNECTIONS TO EQUIPMENT. **3/4" MINIMUM SIZE UNO.**
- WHERE SEMI-RIGID GAS CONNECTORS ARE USED TO SERVE MOTOR OPERATED APPLIANCES, A RUBBER GROMMET SHALL BE INSTALLED IN THE APPLIANCE KNOCK-OUT-PLUG.
- DUE TO THE SMALL SCALE OF THESE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
- CONTRACTOR SHALL FIRESTOP PER SPECIFICATIONS ALL GAS, WATER, SOIL AND VENT PIPING THAT PENETRATE ANY RATED WALLS. VERIFY FIRE RATED WALL LOCATIONS WITH ARCHITECTURAL PLANS.
- CONTRACTOR SHALL COORDINATE WITH ELEC. CONTRACTOR AND AVOID ANY WATER LINE INSTALLATION ABOVE ELECTRIC GEAR AND/OR APPARATUS.
- PROVIDE VALVE IDENTIFICATION LEGENDS PER PLANS AND SPECIFICATIONS.
- MAINTAIN 10'-0" CLEARANCE FROM FRESH AIR INTAKES (SEE HVAC PLANS). OFFSET VENTS THRU ROOF AS REQUIRED.
- CONTRACTOR SHALL ENDEAVOR TO INSTALL BELOW SLAB SANITARY AND ACID WASTE PIPING (WHERE APPLICABLE) BELOW THE BOTTOM OF FOOTINGS, GRADE BEAMS, ETC. SLEEVE ALL LINES ROUTED THRU FOOTINGS, STEM WALLS AND GRADE BEAMS. COORDINATE WITH STRUCTURAL ENGINEER FOR PREFERRED LOCATIONS.
- AT CHASES INSTALL FULL SIZE COLD WATER HEADERS WITH FULL SIZE AIR CHAMBERS. SEE PLANS FOR SIZES AND AIR CHAMBER LOCATIONS.
- SLEEVE AND FOAM SEAL ALL GAS LINE PENETRATIONS THRU EXTERIOR WALL. TRIM OFF EXCESS FOAM SEALANT AND PAINT TO MATCH BUILDING BRICK OR EXTERIOR FINISH.
- PAINT ALL EXPOSED SANITARY SEWER, VENT, WATER AND GAS PIPING, INTERIOR AND EXTERIOR.
- WHERE PIPES PENETRATE CEILING IN FINISHED SPACES THE CONTRACTOR SHALL COORDINATE WITH CEILING INSTALLER AND PROVIDE PAINTED ESCUTCHEONS SIZED APPROPRIATELY FOR PIPE INSULATION (IF ANY).
- SLEEVE ALL GAS LINES UNDER CONCRETE WALKS, PADS AND SLABS.
- CONTRACTOR SHALL PROVIDE PHOTOS OF ALL UNDERGROUND PLUMBING TO ARCHITECT AND OWNER. AS-BUILTS SHALL CLEARLY INDICATE ALL CLEANOUTS.

**PLUMBING LEGEND**

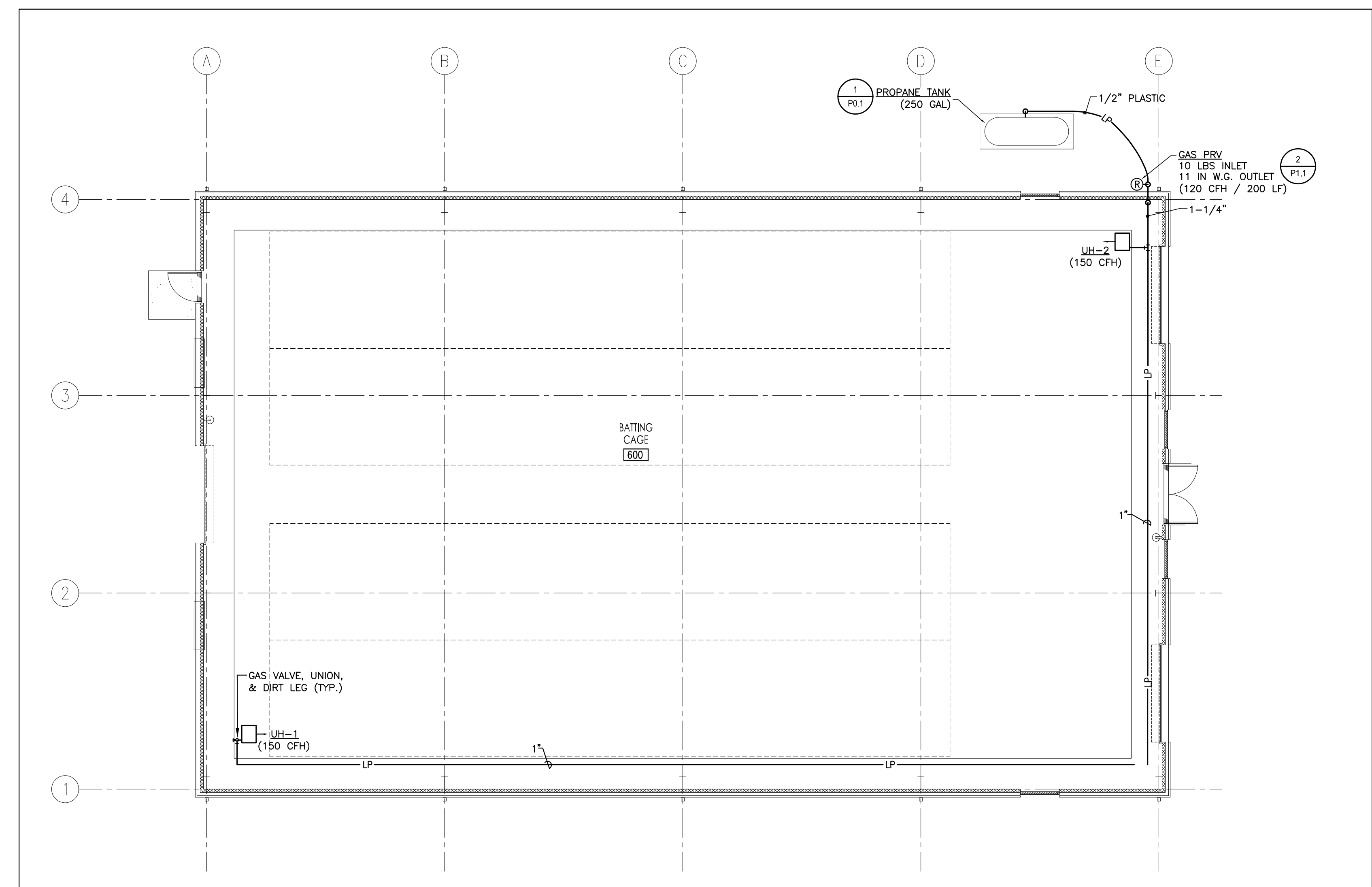


**ABBREVIATIONS**

CW	COLD WATER	SM	SIMILAR
HW	HOT WATER	HWR	HOT WATER RETURN (RECIRC.)
BV	BALL VALVE	EXIST.	EXISTING
GV	GATE VALVE	DWV	DRAIN WASTE AND VENT SYSTEM
GC	GAS COCK	CWV	COMBINATION WASTE AND VENT
FCO	FLOOR CLEANOUT	AF	ABOVE FINISHED FLOOR
AFCO	ANS FLOOR CLEANOUT	AFS	ABOVE FINISHED GRADE
WCO	WALL CLEANOUT	CFH	CUBIC FEET PER HOUR
UNO	UNLESS NOTED OTHERWISE	AV	AIR ADMITTANCE VALVE
N.I.C.	NOT IN CONTRACT		
RD	ROOF DRAIN		



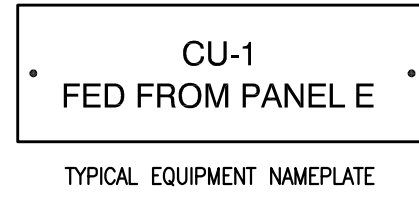
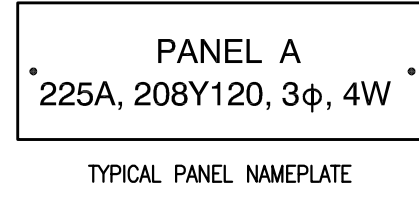
**2 GAS PRESSURE REGULATOR (PRV) DETAIL**  
P1.1 NOT TO SCALE



**1 FLOOR PLAN - BATTING CAGE - PLUMBING**  
SCALE: 1/8" = 1'-0"

**NAMEPLATE NOTES**

- ALL ELECTRICAL EQUIPMENT, TIMER SWITCHES, SAFETY SWITCHES, STARTERS, PANELS, AND TRANSFORMERS SHALL HAVE LAMINATED BAKELITE NAMEPLATES SECURELY FASTENED TO DEVICES.
- NAMEPLATE SIZE SHALL BE 1 1/2" x 4" WITH BEVELED EDGES AND 1/4" LETTERS.
- NAMEPLATE SHALL INCLUDE PANEL OR EQUIPMENT DESIGNATION, INCLUDE AMPERAGE, VOLTAGE, PHASE, AND WIRE FOR THE PANELS, AND PANEL FED FROM FOR THE EQUIPMENT.
- NAMEPLATES SHALL BE INSTALLED TO PANELS, CABINETS, SWITCHES, ETC. WITH RIVETS OR STAINLESS STEEL SCREWS. PLATES ATTACHED TO DRILL WALL OR BLOCK ON INTERIOR MAY BE ADHESIVE BACK.
- NAMEPLATES FOR 120V OR 208 VOLT EQUIPMENT SHALL BE BLACK, 277V OR 480 VOLT EQUIPMENT SHALL BE RED. LETTERS SHALL BE WHITE.
- EMBOSSED STICK BACK WILL NOT BE ALLOWED.
- NAMEPLATES FOR SWITCHES MAY BE OMITTED FOR FURNACES WHEN THE EQUIPMENT WHICH IS SERVED IS OBVIOUS TO SERVICE TECHNICIAN.
- WHERE EQUIPMENT DISCONNECT IS AT A PANEL, SECURE NAMEPLATE (WITH UNIT DESIGNATION AND "FED FROM PANEL") TO THE EQUIPMENT.

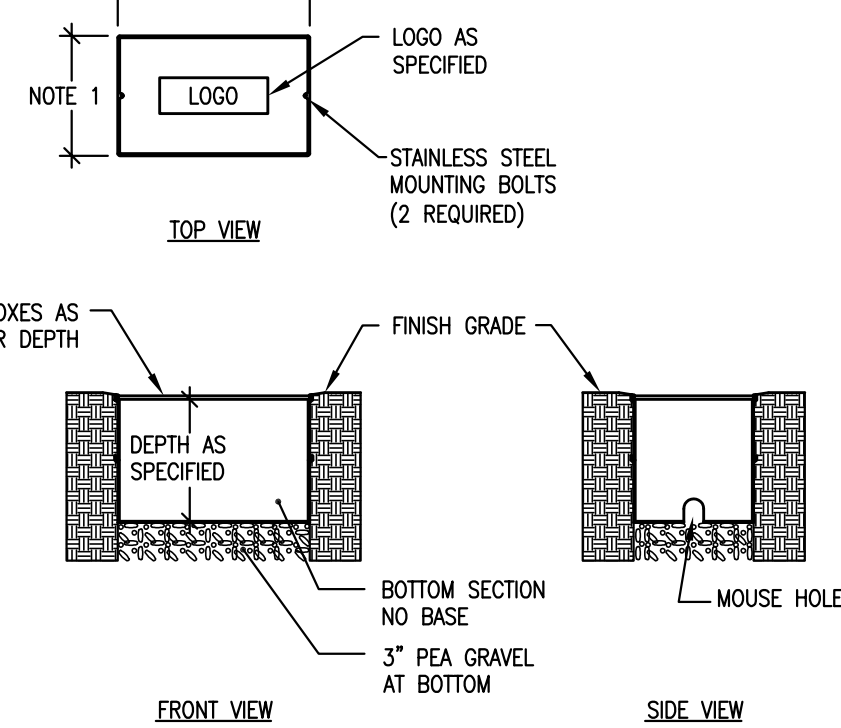


**3 PANEL & EQUIPMENT NAMEPLATES**  
E1.1 NOT TO SCALE

**MINIMUM WIRING NOTES**

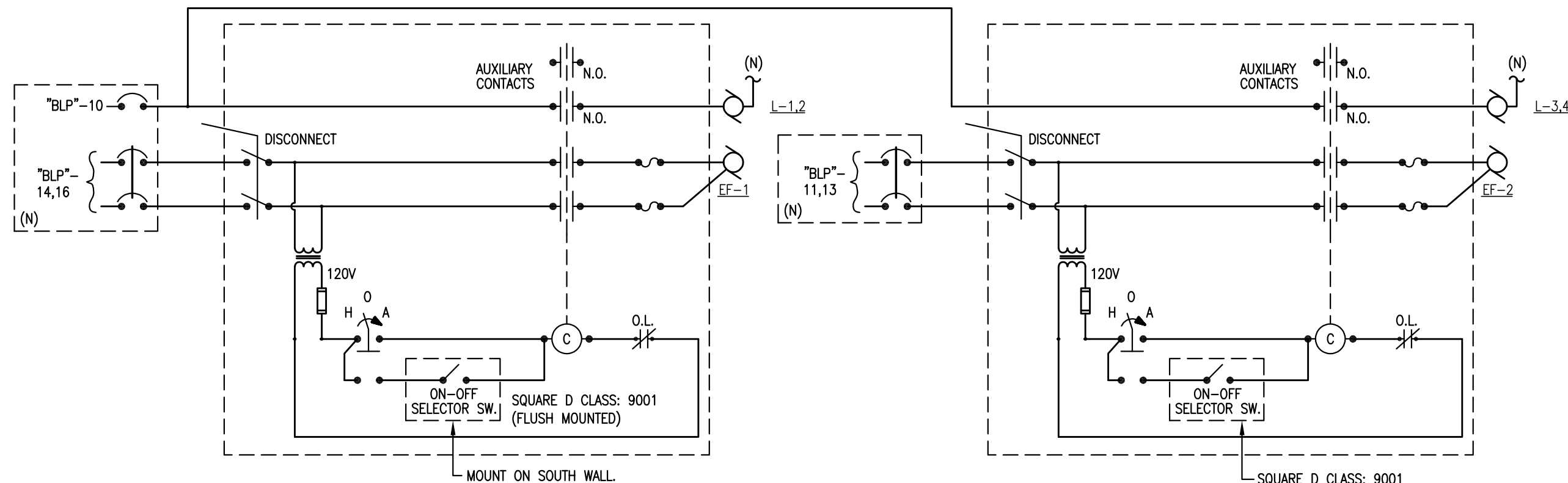
WHETHER SHOWN OR NOT - THE CONTRACTOR SHALL PROVIDE THE MINIMUM WIRE NOTED BELOW FOR ALL EQUIPMENT CONNECTIONS:

MCCP/BREAKER:	WIRE:
20A	#12AWG
25A-30A	#10AWG
35A-50A	#8AWG
55A-65A	#6AWG
70A-85A	#4AWG
90A-100A	#3AWG
105A-125A	#2AWG

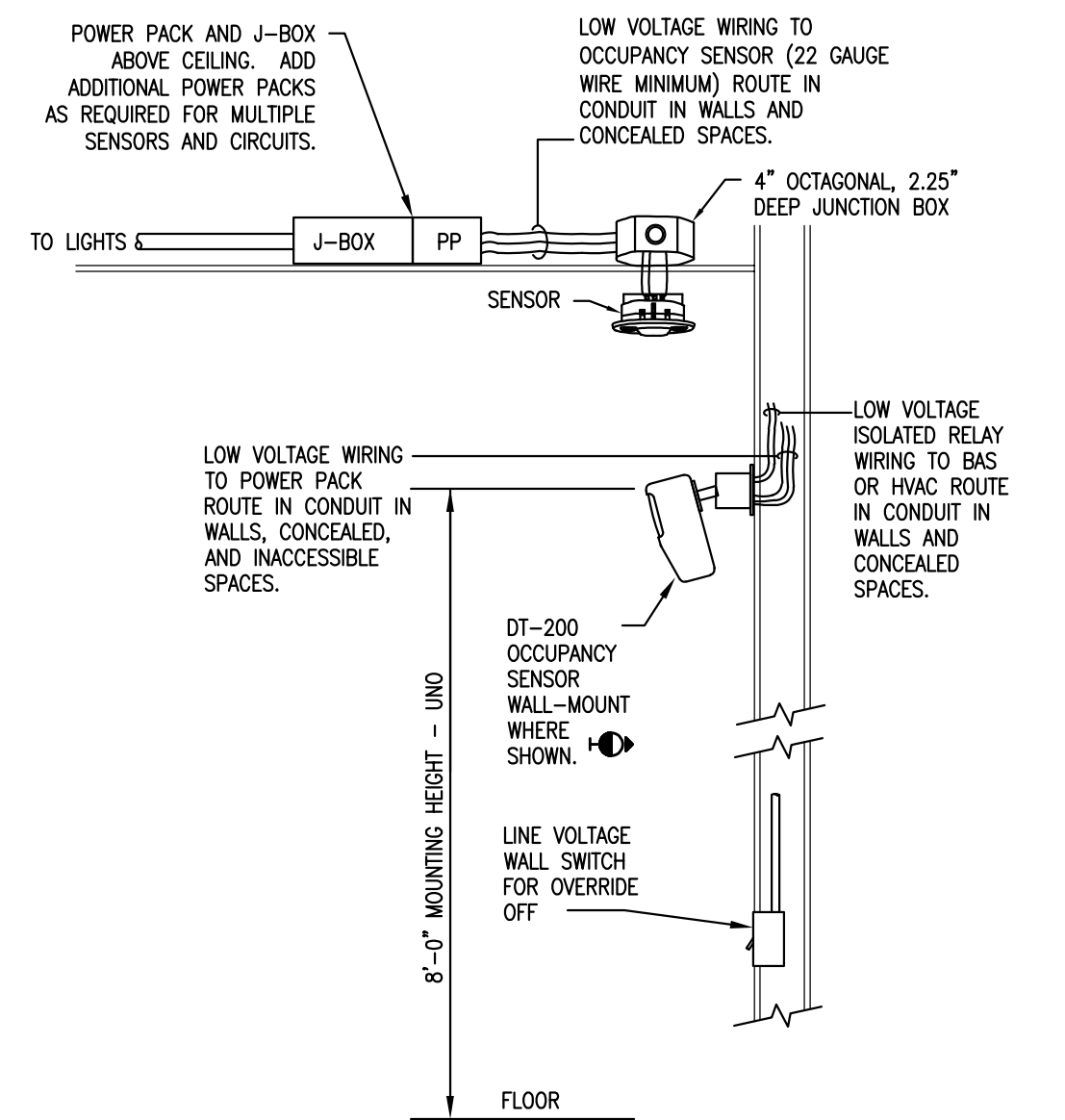


**4 IN-GRADE JUNCTION BOX DETAIL**  
E1.1 NOT TO SCALE

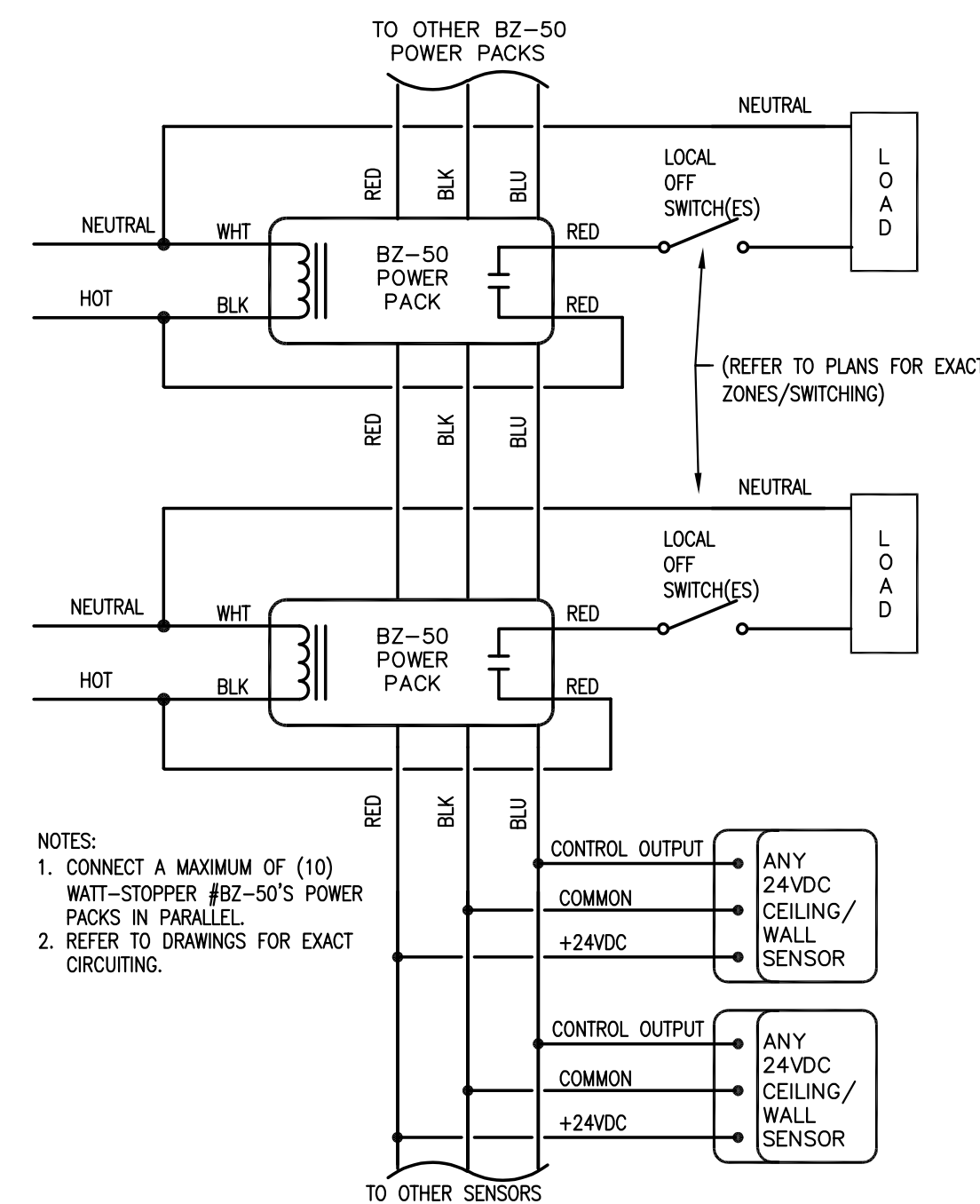
- NOTES:  
1. DIMENSIONS AS SPECIFIED, MINIMUM 24" x 36".  
2. BOXES EQUIVALENT TO QUARTZITE. COVER RATED LIGHT TRAFFIC (TIER1S).



**5 EXHAUST FAN STARTER DETAIL**  
E1.1 NOT TO SCALE

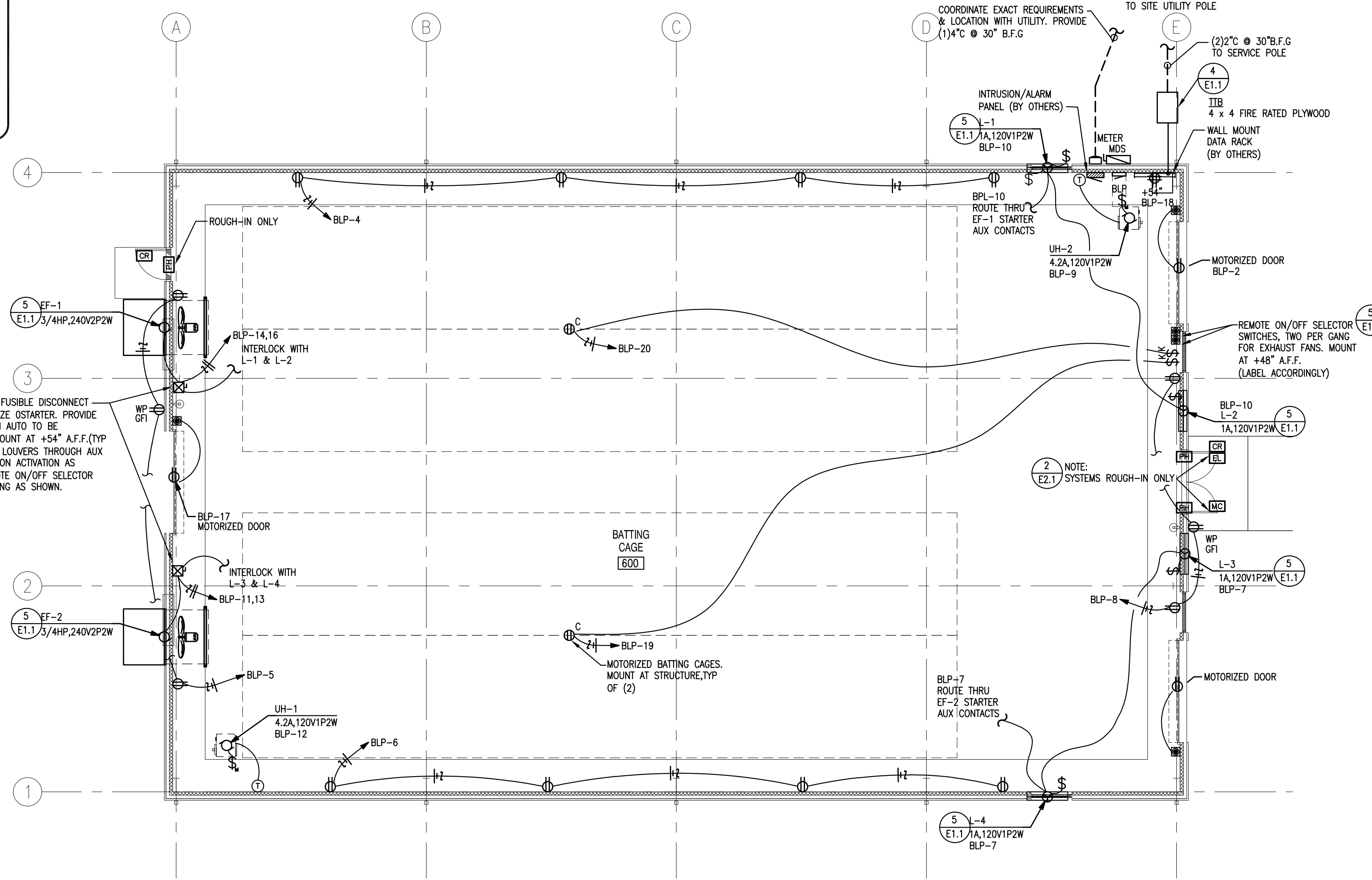
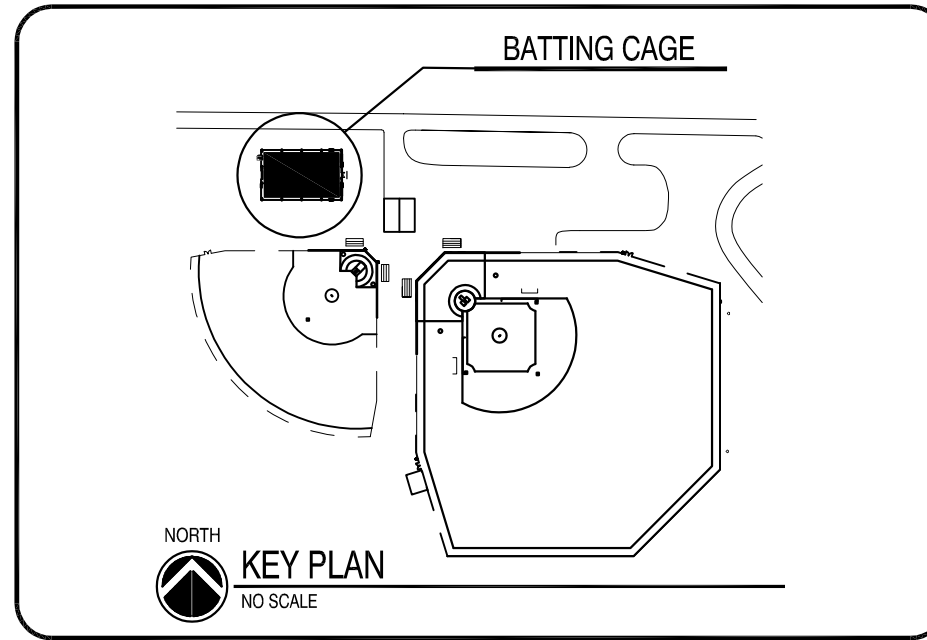


**6 TYP. OCC SENSOR MOUNTING DETAIL**  
E1.1 NOT TO SCALE

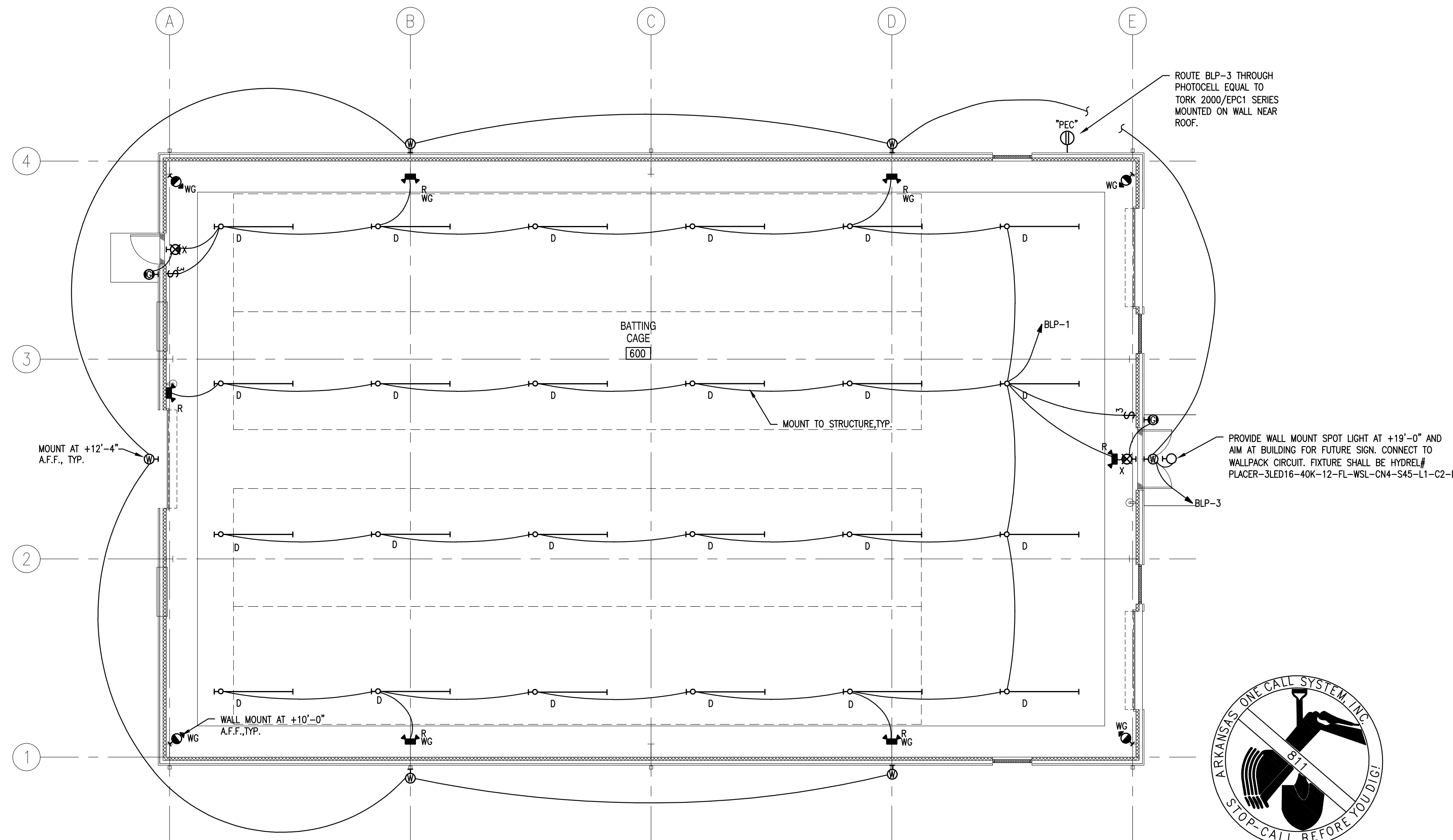


**7 TYPICAL OCCUPANCY WIRING DIAGRAM**  
E1.1 NOT TO SCALE

- NOTES:  
1. CONNECT A MAXIMUM OF (10) WATT-STOPPER #BZ-50'S POWER PACKS IN PARALLEL.  
2. REFER TO DRAWINGS FOR EXACT CIRCUITING.

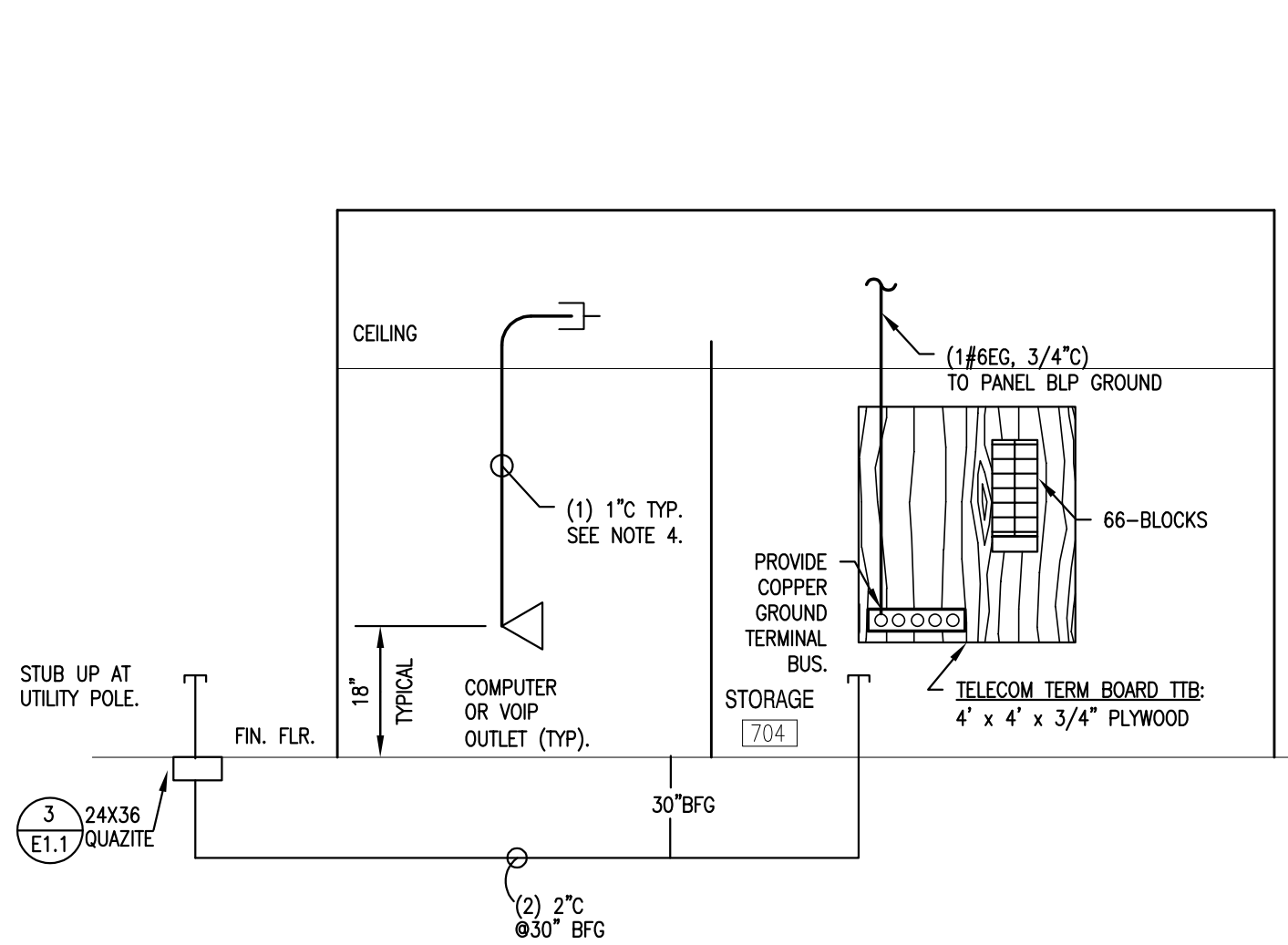


**2 FLOOR PLAN - BATTING FACILITY - POWER AND SYSTEMS**  
E1.1 SCALE:1/8"=1'-0"



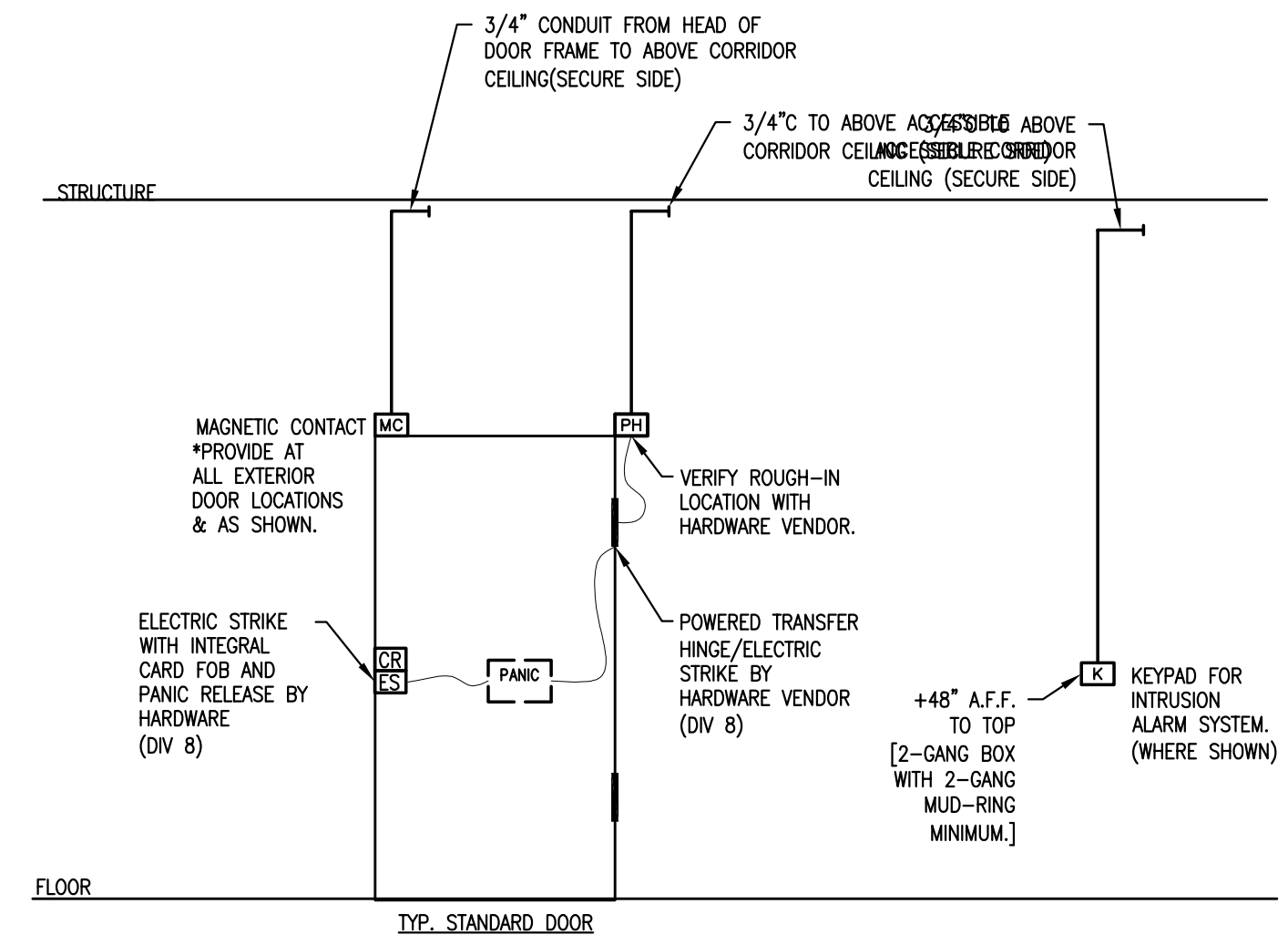
**1 FLOOR PLAN - BATTING FACILITY - LIGHTING**  
E1.1 SCALE:1/8"=1'-0"

**CAUTION !!!**  
CONTRACTOR MUST HAVE ONE CALL LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO TRENCHING OR BORING. ELECTRIC CONTRACTOR MUST LOCATE AND MARK ALL EXISTING CONDUITS AND PIPES OWNED BY PROPERTY OWNER PRIOR TO TRENCHING OR BORING.



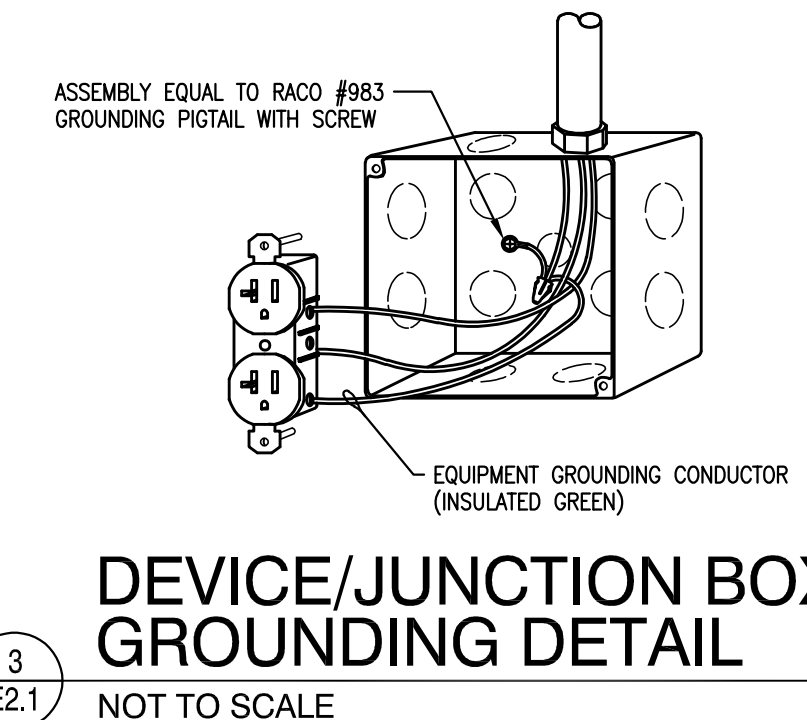
1  
E2.1  
**TELECOM SYSTEMS RISER DIAGRAM**  
NOT TO SCALE

- NOTES:
1. TELECOM SYSTEMS CONTRACTOR TO PROVIDE ALL CONDUIT, BACKBOXES, SLEEVES, RACKS, POWER, ETC. TO FACILITATE OWNER'S SYSTEM OWNER TO PROVIDE COMPUTER EQUIPMENT AND CROSS-CONNECTS TO THEIR SYSTEM, ETC.
  2. PROVIDE PULLSTRING IN ALL CONDUITS.
  3. PROVIDE PLASTIC BUSHINGS ON ALL CONDUIT STUB-UPS.
  4. STUB CONDUITS TO ABOVE TTB BOARD IN TELECOM ROOM/AREA.



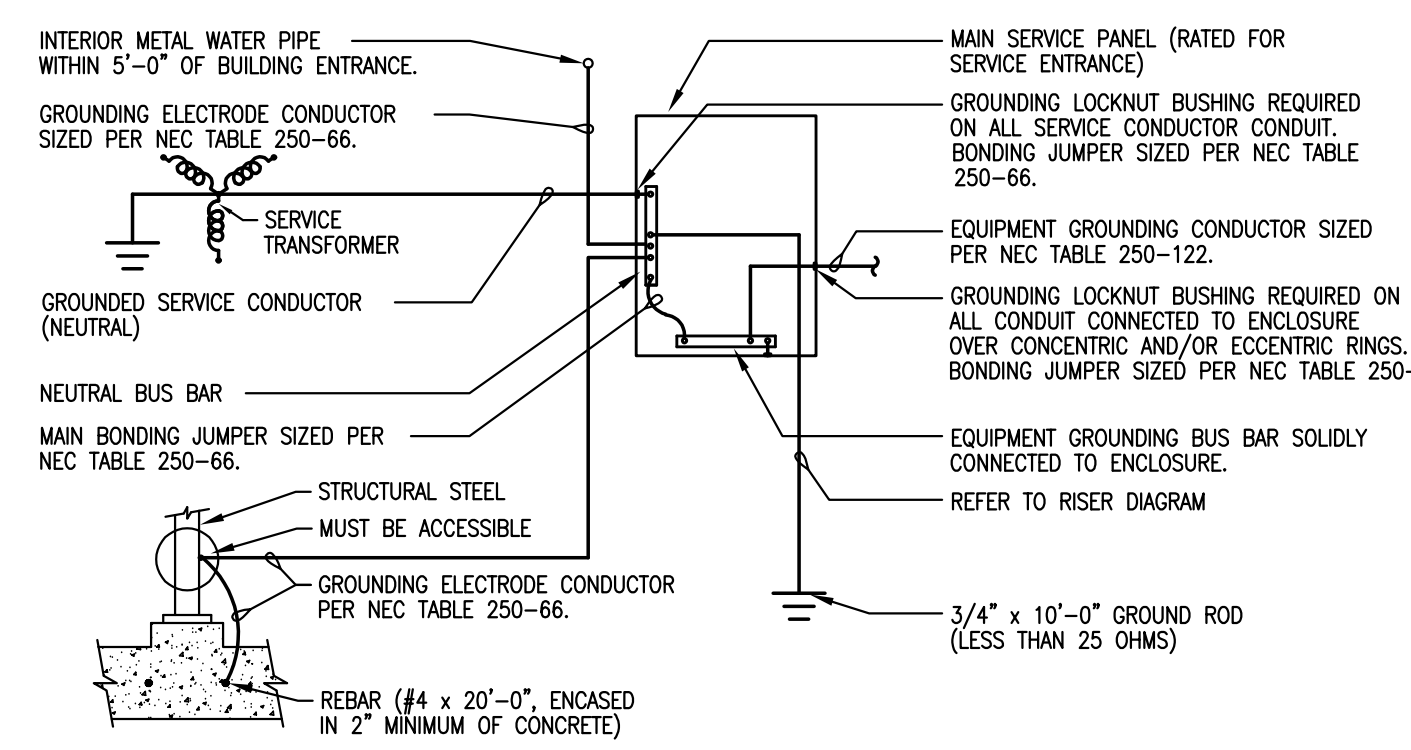
2  
E2.1  
**TYPICAL SECURITY RISER DIAGRAM**  
SCALE: NONE

- NOTES:
1. PROVIDE ALL 120V POWER AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
  2. PROVIDE ALL CONDUITS AND BACK BOXES FOR A COMPLETE AND OPERATIONAL SYSTEM.
  3. PROVIDE PULL-STRINGS IN ALL EMPTY CONDUITS.
  4. PROVIDE PLASTIC BUSHINGS ON ALL CONDUIT STUB-UPS.
  5. STUB CONDUITS TO ABOVE DOOR & UP TO STRUCTURE.



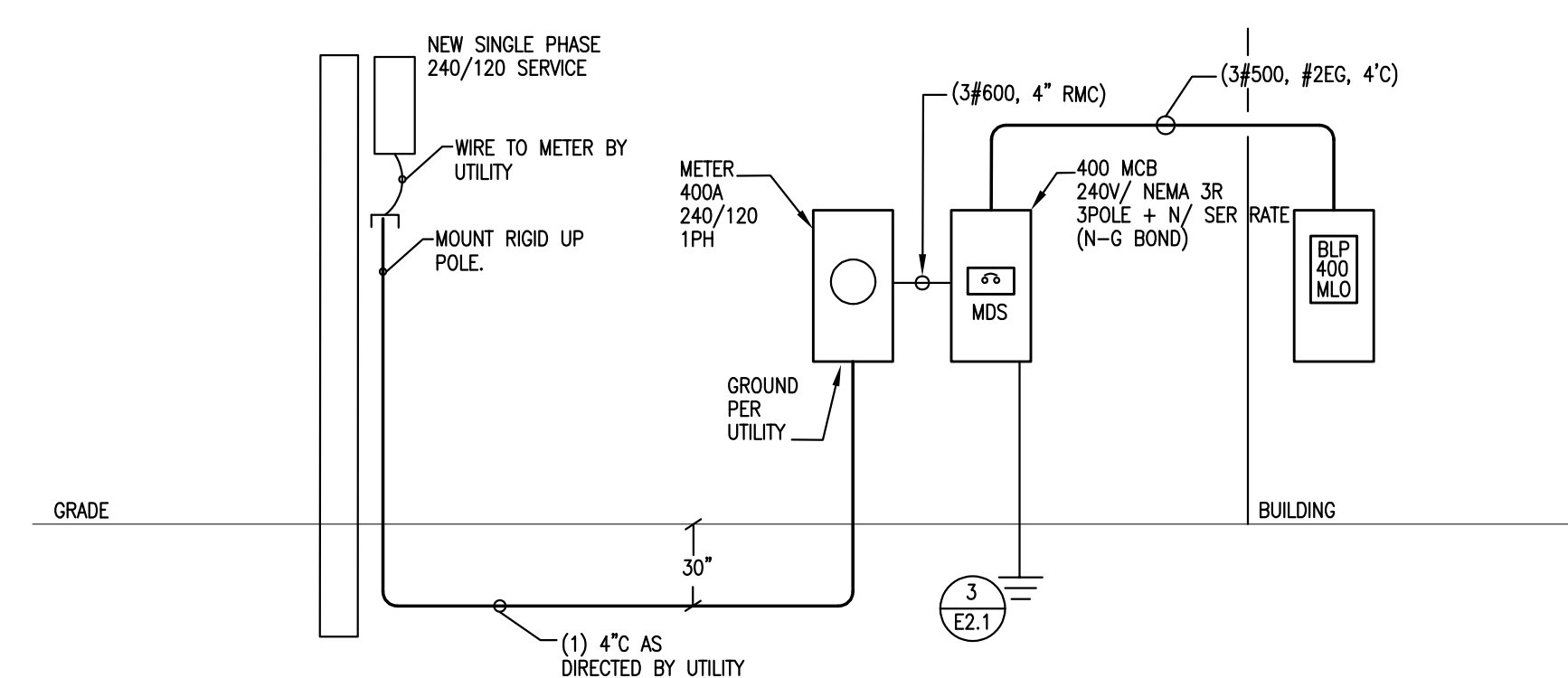
3  
E2.1  
**DEVICE/JUNCTION BOX GROUNDING DETAIL**  
NOT TO SCALE

NOTE: UTILIZE SAME GROUNDING METHOD FOR SWITCHES



4  
E2.1  
**ELECTRICAL SERVICE GROUNDING DETAIL**  
NOT TO SCALE

NOTE: ALL SERVICE GROUNDING/BONDING SHALL COMPLY WITH ARTICLE 250 OF THE LATEST EDITION OF THE NEC.



5  
E2.1  
**POWER RISER DIAGRAM**  
NOT TO SCALE

**ELECTRICAL GENERAL NOTES**

1. DUE TO THE SMALL SCALE OF THE PLANS AND THE DIAGRAMMATIC NATURE OF ELECTRICAL PLANS IN GENERAL IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, JUNCTION BOXES, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING HIS WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
2. PROVIDE LAMINATED NAMEPLATES ON ALL ELECTRICAL GEAR PER THE SPECIFICATIONS. SCREW OR POP NUT TO COVERS. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY, NON-FUSED, 240V OR 300V SOLID NEUTRAL, NEMA 1 OR NEMA 3R AS APPLIES UNLESS NOTED OTHERWISE.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. SLEEVE ALL RACEWAYS ROUTED THRU FOOTINGS OR GRADE BEAMS. CONTRACTOR SHALL FIRST TEST PER SPECIFICATIONS ALL CONDUIT PENETRATIONS THRU RATED WALLS. VERIFY FIRE RATED WALL LOCATIONS WITH ARCHITECTURAL PLANS. CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR AND AVOID ANY WATER CARRYING PIPE INSTALLATION ABOVE ELECTRICAL GEAR AND/OR APPARATUS. SET SCREW AND IDENTIFY TYPE CONDUIT FITTINGS ARE NOT ALLOWED. ALL INTERIOR EXPOSED RACEWAY SHALL BE PAINTED AS DIRECTED BY ARCHITECT.
4. ALL CONDUIT, JUNCTION AND OUTLET BOXES, AND RELATED ROUGH-IN MATERIAL ARE TO BE CONCEALED UNDER FLOORS, IN WALLS AND ABOVE FINISHED CEILING WHEN POSSIBLE UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS OR ON THE DRAWINGS. ALL CONDUITS SHALL BE ROUTED OVERHEAD UNLESS NOTED OTHERWISE OR SHOWN AS BELOW GRADE TO A DEVICE.
5. ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE CONDUCTOR OF #12 A.W.G. PROVIDE SOLID TYPE THW OR THHN FOR #12 A.W.G. AND #10 A.W.G. ALL FEEDER AND MOTOR/EQUIPMENT CONDUCTORS SHALL BE COPPER TYPE THHN OR THW.
6. ALL EQUIPMENT SHALL BE BRACED FOR EARTHQUAKE. LIGHT FIXTURES TO HAVE EARTHQUAKE CLIPS AND INDEPENDENT SUPPORT WIRES AT OPPOSITE CORNERS. ALL CEILING MOUNTED EQUIPMENT SUCH AS LIGHT FIXTURES SHALL BE SECURED TO THE STRUCTURE WITH #12 GA STEEL WIRE ON TWO (2) SIDES. IN ADDITION, LIGHT FIXTURES SHALL BE SECURED TO THE CEILING WITH FACTORY UL LISTED EARTHQUAKE CLIPS.
7. AT LOCATIONS WHERE TRENCHES ARE BELOW BOTTOM OF FOOTING ELEVATION AND WITHIN SIX FEET OF THE EDGE OF THE FOOTING, TRENCHES SHALL BE BACKFILLED IN LEFTS, COMPACTED AND TESTED. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION NOTES FOR BACKFILL PROCEDURES. PROVIDE PULLSTRINGS FOR ALL CONDUIT STUBS/SLEEVES.
8. PROVIDE A MIN. OF (2) 4" ON BOTH SIDES OF CORRIDOR PARTITIONS. PROVIDE (2) 3/4" PYROD FIRE-RATED SEALS AT FIRE-RATED PARTITIONS. PROVIDE SPEC-SEAL FIRESTOP FILLERS IN ALL OTHER SLEEVES AND PENETRATIONS AT FIRE-RATED WALLS.
9. ALL CIRCUITS, LIGHTING AND POWER, SHALL HAVE DEDICATED NEUTRAL CONDUCTORS WITH ONE PER EACH HOT CONDUCTOR—NO SHARING OF NEUTRALS. ONLY 3 "HOT" CIRCUITS ALLOWED PER HOMERUN - U.N.O.
10. ALL OF THE FOLLOWING RECEPTACLES SHALL BE GFCI TYPE:
  - a.) RECEPTACLES FOR ELECTRIC WATER COOLERS
  - b.) RECEPTACLES IN BATHROOMS OR WITHIN 5'-0" OF A SINK
  - c.) NEMA 3-POLE RECEPTACLES FOR A KITCHEN OR CONGRESSION AREA
  - d.) EXTERIOR RECEPTACLES SHALL BE GFCI AND WEATHER RESISTANT "WR" TYPE
 Note: FEED THROUGH PROTECTION OF GFCI OUTLETS ARE NOT ALLOWED.
11. PROVIDE EXTRA HEAVY DUTY HOSPITAL GRADE TYPE RECEPTACLES FOR ALL PATIENT TREATMENT AREAS SUCH AS, BUT NOT LIMITED TO: EXAM, TREATMENT, TRACING, SLEEPING, X-RAY AND DIAGNOSTIC OR IMAGING ROOMS.

**LED LUMINAIRE SCHEDULE**

CALLOUT	DESCRIPTION	MOUNTING	MODEL	TOTAL VA	VOLTS	NOTE 1
D	BFT LED STRIP W/WIRE GUARD	SURFACE	LITHONIA® ZL1N-LS6-1000UM-FST-MVLT-40K-80CR-WH-WG248	66	120V 1P 2W	MOUNT TO STRUCTURE
C	WALL MOUNT EXTERIOR EGRESS	WALL	LITHONIA® AEN-FINSH-EXT	21	120V 1P 2W	MOUNT AT +8'-0" A.F.F. - U.N.O.
R	WALL MOUNT LED EGRESS LIGHT	WALL	LITHONIA® ELM6 LED FINISH LPO3VS	12	120V 1P 2W	W/ BATTERY BACK-UP & ELA WEST WIRE GUARD WHERE MOUNTED IN GYM
W	WALL MOUNT LED AREA LIGHT	WALL	LITHONIA® EDW LED 300 700 40K TM MVOLT FINSH	89	120V 1P 2W	WALL MOUNT AT HEIGHT NOTED #'-0" A.F.F. - U.N.O.
X	EMERGENCY EXT LIGHT	AS NOTED	LITHONIA® LOC-FINSH-FACE-R-ELN WIRE GUARD WHERE MOUNTED IN GYM	1	120V 1P 2W	SELF-POWERED (MOUNT AT 8'-0" A.F.F. WHERE SHOWN AS WALL MOUNT)

**BLP**

ROOM BAT CAGES #600		VOLTS 240/120V 2P 3W	AIC 22,000
MOUNTING SURFACE		BUS AMPS 400	MAIN BKR MLO
FED FROM UTILITY		NEUTRAL 100%	LUGS STANDARD
NOTE SQUARE D NQ00			

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA	
			A	B				A	B
1	20/1	LIGHTING	1.72		2	20/1	RECEPTACLE	0.18	
3	20/1	LIGHTING		0.414	4	20/1	RECEPTACLE		0.72
5	20/1	RECEPTACLE	0.54		6	20/1	RECEPTACLE	0.72	
7	20/1	L-3, L-4		0.24	8	20/1	RECEPTACLE		0.54
9	20/1	UH-2	0.5		10	20/1	L-1, L-2	0.24	
11	20/2	EF-2		0.828	12	20/1	UH-1		0.5
13					14	20/2	EF-1	0.828	
15	20/1	SPARE	0		18	20/1	RECEPTACLE	0.36	0.828
19	20/1	RECEPTACLE	0.18		20	20/1	RECEPTACLE	0.36	0.18
21	20/1	SPARE	0	0.18	22	20/1	SPARE		0.18
23	20/1	SPARE	0	0	24	20/1	SPARE	0	0
25	20/1	SPARE	0	0	26	20/1	SPARE	0	0
27	20/1	SPARE	0	0	28	20/1	SPARE	0	0
29	20/1	SPARE	0	0	30	20/1	SPARE	0	0
31	20/1	SPARE	0	0	32	20/1	SPARE	0	0
33	20/1	SPARE	0	0	34	20/1	SPARE	0	0
35	20/1	SPARE	0	0	36	20/1	SPARE	0	0
37	20/1	SPARE	0	0	38	20/1	SPARE	0	0
39	20/1	SPARE	0	0	40	20/1	SPARE	0	0
41	20/1	SPARE	0	0	42	20/1	SPARE	0	0
TOTAL CONNECTED KVA BY PHASE								6.1	4.43
TOTAL CONNECTED AMPS BY PHASE								50.8	36.9

	CONN KVA	CALC KVA		CONN KVA	CALC KVA
LIGHTING	2.14	2.67	(125%)	4.79	4.79
LARGEST MOTOR	1.86	0.414	(25%)	3.6	3.6
MOTORS				11.5	11.5
RECEPTACLES				47.8	47.8
TOTAL LOAD					
BALANCED LOAD					

**ELECTRICAL LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Light Fixture]	LIGHT FIXTURE - REFER TO SCHEDULE, TYPICAL	[Fire Alarm Sprk]	INTERIOR: FIRE ALARM SPKR - MTD, AT 8'0" A.F.F. TO BOTTOM - U.N.O. EXTERIOR: RE-ENTRANT SPKR - 24" BELOW ROOF LINE, UNLESS NOTED OTHERWISE (11'-6" MAX. HGT.).
[Emergency Fixture]	INDICATES EMERGENCY EGRESS FIXTURE (BATTERY AND/OR GENERATOR AS SHOWN/NOTED) ["EM"]	[Fire Alarm Strobe]	FIRE ALARM, STROBE ONLY, 8'0" A.F.F. [FA] FIRE ALARM, STROBE ONLY, CEILING MOUNT
[Light Strip]	LIGHT STRIP/COVE FIXTURE - REFER TO SCHEDULE	[Fire Alarm Spkr]	FIRE ALARM, SPKR / STROBE COMBINATION, 8'0" A.F.F. [FA, CEILING SPKR / STROBE COMBINATION
[Ceiling Light]	CEILING MOUNTED LIGHT FIXTURE - REFER TO SCHEDULE	[Fire Alarm Station]	FIRE ALARM STATION - PULL STATION, 4'-0" A.F.F. [FA, CEILING SPEAKER ONLY
[Wall Light]	WALL MOUNTED LIGHT FIXTURE - REFER TO SCHEDULE	[Water Tamper]	WATER SUPERVISORY TAMPER SWITCH [WS] WATER SUPERVISORY FLOW SWITCH
[Exit Light]	EXIT LIGHT - BATTERY BACK-UP W/ CHEVRONS AS NOTED (BRACKET INDICATES WALL MOUNT)	[Magnetic Door]	MAGNETIC DOOR HOLD OPEN - TYPE AS NOTED IN FIRE ALARM GENERAL NOTES/SPECIFICATIONS.
[Recessed Light]	RECESSED CEILING MOUNT EMERGENCY EGRESS BATTERY LIGHT W/ 7-BAR SUPPORT-REFER TO SCHEDULE. NOTE: ALL EXIT AND DEDICATED EGRESS BATTERY "2-HEAD" LIGHTS SHALL BE NON-SWITCHED	[Fire Alarm Detector]	FIRE ALARM DETECTOR - AUTOMATIC, ADDRESSABLE, CEILING MOUNTED [SD] DENOTES SMOKE DETECTOR [HD] DENOTES HEAT DETECTOR [SDS] DENOTES DUCT SMOKE DETECTOR (SUP-SUPPLY/RET-RETURN)
[Ceiling Fan]	CEILING FAN WITH T-BAR SUPPORT (REFER TO DETAIL/SCHEDULE)	[Occupancy Sensor]	OCCUPANCY SENSOR - CEILING MOUNT 360DEG ULTRASONIC TYPE [OC] OCCUPANCY SENSOR - CEILING MOUNT 360DEG INFRARED TYPE [OC] OCCUPANCY SENSOR - CEILING MOUNT CORRIDOR ULTRASONIC TYPE (AW DOWN CORRIDOR) [OC] OCCUPANCY SENSOR - CEILING MOUNT 360DEG DUAL-TECHNOLOGY TYPE [OC] OCCUPANCY SENSOR - CEILING MOUNT DIRECTIONAL DUAL-TECHNOLOGY TYPE [OC] OCCUPANCY SENSOR - WALL MOUNT DIRECTIONAL DUAL-TECHNOLOGY TYPE AIM AS SHOWN AND DETAILED [OC] SPEAKER - WALL MOUNTED 12" BELOW CEILING INTERIOR, (11'-6" MAX. HGT.) ARCHITECTURAL GRADE [OC] DIGITAL TIMER LIGHT SWITCH - FLUSH MOUNT @ +48" AFF TO TOP OF SWITCH [OC] RECEPTACLE, DUPLEX - 18" A.F.F. UNLESS NOTED OTHERWISE. [OC] RECEPTACLE, DUPLEX "SPUD-WIRED" AT 18" A.F.F. - U.N.O. [OC] RECEPTACLE, DUPLEX - CEILING FLUSH MOUNT PROVIDE BFT WHIP FROM J-BOX ABOVE CEILING TO RECEPTACLE LOCATION. [OC] 3/4" COUPLING - FLUSH WITH FINISH FLOOR - CONNECT TO EQUIPMENT AS REQUIRED. [OC] DUPLEX/QUAD ABOVE COUNTER RECEPTACLE, COORDINATE WITH MILLWORK HEIGHT TYPICALLY, +6" TO BOTTOM OF BOX FROM COUNTERTOP HEIGHT - U.N.O. [OC] QUAD RECEPTACLE (DOUBLE DUPLEX) - 18" A.F.F. UNLESS NOTED OTHERWISE. [OC] SPECIAL RECEPTACLE, NEMA STYLE AS NOTED - VERIFY SIZE WITH EQUIPMENT [OC] DUPLEX/QUAD REPT IN FLUSH MOUNTED FLOORBOX, SEE PLANS FOR COORD WITH SYSTEMS FLOOR BOXES) [MULTI-GANG WALKER REB-06 SERIES - U.N.O.]
[Ground Fault]	INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE [GFI] INDICATES TAMPER-RESISTANT TYPE [GFI] INDICATES ISOLATED GROUND TYPE (PROVIDE SEPARATE NEUTRALS/GROUNDS ON ALL "G" CIRCUITS) [+18", IN REGARDS TO RECEPTACLES, IS TO THE CENTERLINE OF BOX] [G] SWITCH - SINGLE POLE, 4'-0" A.F.F. [G2] SWITCH - TWO-POLE TOGGLE DISC. SWITCH-MTD AS NOTED [G3] SWITCH - THREE WAY, 4'-0" A.F.F. [G4] SWITCH - FOUR WAY, 4'-0" A.F.F. [G5] DIMMER - 4'-0" A.F.F. - TYPE AS NOTED/REQUIRED BY MANUF. [G6] ZONE OF FIXTURE BEING CONTROLLED - SUBMIT WITH LIGHTING PACKAGE. [G7] LOW VOLTAGE SWITCH - TYPE AS NOTED, MOUNT BACKBOX AS REQ'D AT 4'-0" A.F.F. TO TOP WITH 3/4" MIN. TO ABOVE ACCESSIBLE CEILING. [G8] LOW VOLTAGE SWITCH - TYPE AS NOTED, MOUNT BACKBOX AS REQ'D AT 4'-0" A.F.F. TO TOP WITH 3/4" MIN. TO ABOVE ACCESSIBLE CEILING. [G9] VARIABLE SPEED CONTROLLER FOR CEILING FAN - 4'-0" A.F.F. REFER TO CEILING FAN SPECIFICATION FOR MODEL NUMBER. [G10] SWITCH - SINGLE POLE, 4'-0" A.F.F. [G11] SWITCH - TWO-POLE TOGGLE DISC. SWITCH - MOUNT AT 4'-0" A.F.F. TO TOP AND MARK WITH BUCKLE LABEL AS DETICLED. [G12] LOW VOLTAGE LIGHTING ZONE SWITCH - TYPE AS NOTED, MOUNT BACKBOX AS REQ'D AT 4'-0" A.F.F. TO TOP WITH 3/4" MIN. TO ABOVE ACCESSIBLE CEILING. [G13] INDICATES ENTRY STATION / M-WATER STATION		
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[Wall Junction Box]	WALL JUNCTION BOX - FINAL CONNECTION TO EQUIPMENT AS REQUIRED	[Equip J-Box]	EQUIP J-BOX - TYPE AS SHOWN/NOTED - CONNECT TO EQUIPMENT AS REQUIRED
[Thermosstat]	THERMOSTAT/TEMP SENSOR - PROVIDE BOX AS REQ'D BY MECHANICAL AT 4'-0" A.F.F. TO TOP WITH 3/4" MIN. TO ABOVE ACCESSIBLE CEILING. (SEE MECH PLANS FOR LOCATIONS)	[Wire Designations]	WIRE DESIGNATIONS - HOT, SWITCH, NEUTRAL, GROUND, ISOLATED GROUND, RESPECTIVELY.
[Wire]	WIRE IN CONDUIT-CEILING OR WALL - - - - WIRE IN CONDUIT - UNDERFLOOR. (SEE NOTES IN SPECS)	[Homerun]	HOMERUN TO PANEL [T] CONDUIT STUB/SLEEVE [W] WEATHERHEAD - SIZE AS NOTED ON PLANS
[Magnetic Contact]	MAGNETIC CONTACT(SECURITY) [C] CARD READER - ACCESS [K] KEYPAD - INTRUS.	[Electromagnetic Lock]	ELECTROMAGNETIC LOCK - ACCESS CONTROL [E] EXT REQUEST BUTTON - ACCESS CONTROL
[Pir Sensor]	PIR SENSOR FOR DOOR RELEASE [D] DOOR RELEASE PB / TWO-WAY INTERCOM	[Security/Door Power Supply]	SECURITY/DOOR POWER SUPPLY [D] ELECTRIC DOOR STRIKE / [E] ELECTRIC LATCH
[Fused Disconnect]	FUSED DISCONNECT - W/GROUNDING LUG, SIZE/FUSE AS NOTED ON PLANS	[Panic Hardware Door Release]	PANIC HARDWARE DOOR RELEASE [C] CEILING CAMERA - CCTV [H] HALL CAMERA - CCTV
[Disconnect Switch]	DISCONNECT SWITCH - W/GROUNDING LUG, SIZE AS NOTED ON PLANS	[Reader Controller]	READER CONTROLLER

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LEWIS  
ARCHITECTS  
ENGINEERS

ELECTRICAL POWER RISER  
& DETAILS

CONCORD BAITING CAGES  
CONCORD SCHOOL DISTRICT  
CONCORD, ARKANSAS

CERTIFICATE OF AUTHORITY  
LEWIS ARCHITECTS ENGINEERS  
NO. 186  
STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
NO. 11069  
EXPIRES 12/31/2025

DATE: 2024 09-20  
PROJECT NO: 24055  
DRAWN BY: SW/ML  
REVISION:

E2.1  
2 OF 2