

# Crestwood School District Crestwood High School Field Building & Site Improvements

Crestwood School District  
27235 Joy Road, Dearborn Heights, MI 48127  
Contact Name: Penny L. Morgan, Chief Financial Officer  
Contact Phone: (313) 378-2349

## ARCHITECT:



## CIVIL ENGINEER:



## STRUCTURAL ENGINEER:



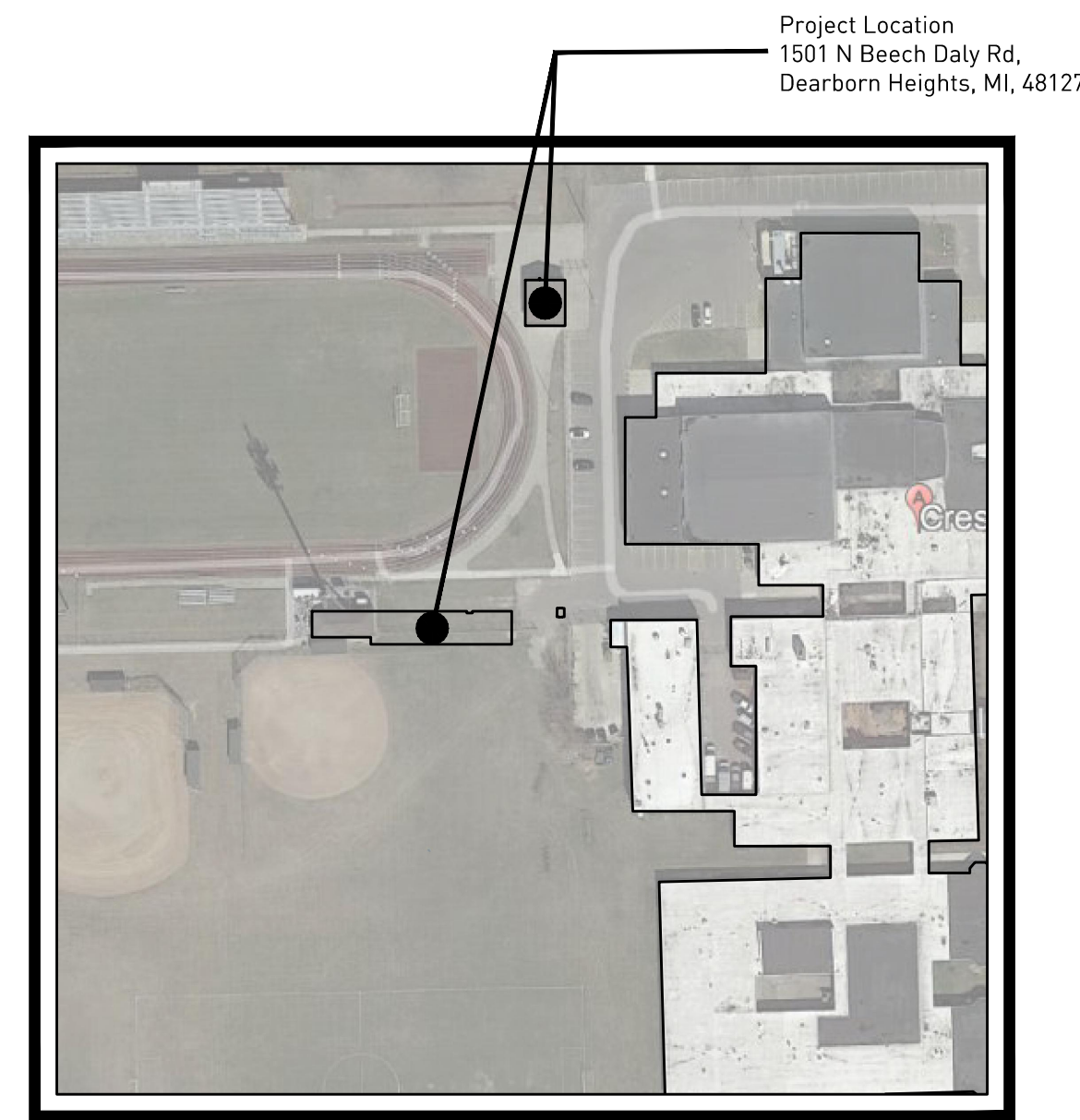
## MECH. / ELECT. ENGINEER:



## TECHNOLOGY CONSULTANT:



## FOOD SERVICE CONSULTANT:



## LOCATION PLAN



NOT TO SCALE

## APPLICABLE CODES:

MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS:	2015 EDITION
MICHIGAN BUILDING CODE:	2015 EDITION
MICHIGAN PLUMBING CODE:	2018 EDITION
MICHIGAN MECHANICAL CODE:	2015 EDITION
NATIONAL ELECTRIC CODE (WITH MICHIGAN PART 8 RULES):	2017 EDITION
MICHIGAN UNIFORM ENERGY CODE:	2015 EDITION
ASHRAE 90.1-2013:	
LIFE SAFETY CODE 101:	2012 EDITION
FEDERAL ADA LAW:	CURRENT ED.
ACCESSIBLE AND USABLE BUILDINGS & FACILITIES (ANSI A117.1):	2009 EDITION

## USE GROUP:

A-5

## ZONING DISTRICT:

R-1 SINGLE FAMILY RESIDENTIAL

## CONSTRUCTION TYPE:

111-B

## TOTAL FLOOR AREA:

BUILDING A (EXISTING):	976 SF
BUILDING A (ADDITION):	3,163 SF
BUILDING A (TOTAL):	4,139 SF (GROSS FLOOR AREA)
BUILDING B:	1,073 SF (GROSS FLOOR AREA)

## LIST OF DRAWINGS CONT.

### ELECTRICAL DRAWINGS:

E0.10	ELECTRICAL STANDARDS AND DRAWING INDEX
E0.12	ELECTRICAL STANDARD SCHEDULES
E0.13	ELECTRICAL STANDARD SCHEDULES
E0.14	ELECTRICAL SITE PLAN
ED1.11	BUILDING B ELECTRICAL DEMOLITION PLAN
E2.10	BUILDING A LIGHTING PLAN
E2.11	BUILDING B LIGHTING PLAN
E3.10	BUILDING A POWER AND AUXILIARY SYSTEMS PLAN
E3.11	BUILDING B POWER AND AUXILIARY SYSTEMS PLAN
E5.10	ONE LINE DIAGRAM
E5.11	PANEL SCHEDULES
E7.10	ELECTRICAL DETAILS AND DIAGRAMS

### TECHNOLOGY DRAWINGS:

T0.11	FIELD BUILDING COMMUNICATIONS SITE PLAN
T20.1	FIELD BUILDING STRUCTURED CABLING PLAN
T70.1	FIELD BUILDING STRUCTURED CABLING DETAILS

### FOOD SERVICE DRAWINGS:

FS.1	FOOD SERVICE FLOOR PLAN AND SCHEDULE
FS.2	FOOD SERVICE UTILITIES

## LIST OF DRAWINGS

TTL	TITLE SHEET
A0.00	GENERAL INFORMATION
A0.01	CODE REVIEW PLAN
<b>CIVIL DRAWINGS:</b>	
C1.0	GENERAL PLAN
C1.1	TOPOGRAPHICAL SURVEY - AREA 1
C1.2	TOPOGRAPHICAL SURVEY - AREA 2
C1.3	TOPOGRAPHICAL SURVEY - STRUCTURE TABLE
C3.1	UTILITY PLAN - AREA 1
C3.2	UTILITY PLAN - AREA 2
C3.3	UTILITY PLAN - AREA 3
C4.1	PAVING AND LAYOUT PLAN - AREA 1
C4.2	PAVING AND LAYOUT PLAN - AREA 2
C5.1	GRADING PLAN - AREA 1
C5.2	GRADING PLAN - AREA 2

### ARCHITECTURAL DRAWINGS:

A0.11	ARCHITECTURAL SITE PLAN & DETAILS
A1.11	REMOVALS FLOOR PLANS
A1.14	REMOVALS CEILING PLAN - BUILDING B
A1.15	REMOVALS ELEVATIONS - BUILDING A
A1.16	REMOVALS ELEVATIONS - BUILDING B
A2.10	COMPOSITE FLOOR PLAN
A2.11	FLOOR PLAN - BUILDING A
A2.12	FLOOR PLAN - BUILDING B
A2.13	DIMENSION PLAN - BUILDING A
A2.14	DIMENSION PLAN - BUILDING B
A2.50	ROOF PLANS
A2.60	WINDOW AND DOOR SCHEDULES
A3.00	EXTERIOR ELEVATIONS
A3.01	EXTERIOR ELEVATIONS
A3.50	BUILDING SECTIONS - BUILDING A
A3.51	BUILDING SECTIONS - BUILDING B
A5.00	INTERIOR ELEVATIONS - BUILDING A
A5.01	INTERIOR ELEVATIONS - BUILDING B
A6.10	RCP AND DRAFTSTOPPING PLAN
A8.50	FINISH SCHEDULE
A9.00	EXTERIOR WALL SECTIONS - BUILDING A
A9.01	EXTERIOR WALL SECTIONS - BUILDING A
A9.02	EXTERIOR WALL SECTIONS - BUILDING B
A9.03	EXTERIOR WALL SECTIONS - BUILDING B
A9.10	EXTERIOR DETAILS
A9.11	EXTERIOR DETAILS
A9.50	INTERIOR WALL SECTIONS

### STRUCTURAL DRAWINGS:

S01	GENERAL STRUCTURAL NOTES
S02	GENERAL STRUCTURAL NOTES
S03	SPECIAL INSPECTION SCHEDULE
S10	STRUCTURAL PLANS
S11	BUILDING PLANS & ELEVATIONS
S30	TYPICAL MASONRY DETAILS
S31	TYPICAL CONCRETE DETAILS
S32	SECTIONS AND DETAILS

### MECHANICAL DRAWINGS:

M0.10	MECHANICAL STANDARDS AND DRAWING INDEX
M0.20	MECHANICAL COMPOSITE PLAN
M2.00	BUILDING A UNDERGROUND PLUMBING PLAN
M2.01	BUILDING B UNDERGROUND PLUMBING PLAN
M2.10	BUILDING A PLUMBING PLAN
M2.11	BUILDING B PLUMBING PLAN
M4.10	BUILDING A SHEET METAL PLAN
M4.11	BUILDING B SHEET METAL PLAN
M6.10	MECHANICAL DETAILS
M6.11	MECHANICAL DETAILS
M7.10	MECHANICAL SCHEDULES
M7.11	MECHANICAL SCHEDULES
M8.10	TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES

## BUILDING HEIGHT:

BUILDING A (EXISTING):	± 10'-11 1/2"
BUILDING A (ADDITION):	± 11'-6 1/2"
BUILDING B (EXISTING):	± 16'-5"

## LIST OF ALTERNATES:

ALTERNATE #1: FOOD SERVICE EQUIPMENT  
STATE THE AMOUNT TO BE DEDUCTED FROM THE BASE PROPOSAL AMOUNT TO PROVIDE AND INSTALL FOOD SERVICE EQUIPMENT. CONTRACTOR TO REFER TO DRAWINGS AND / OR SPECIFICATIONS FOR FURTHER INFORMATION.

Bidding and Permits: 20 March 2023

## Title Sheet



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

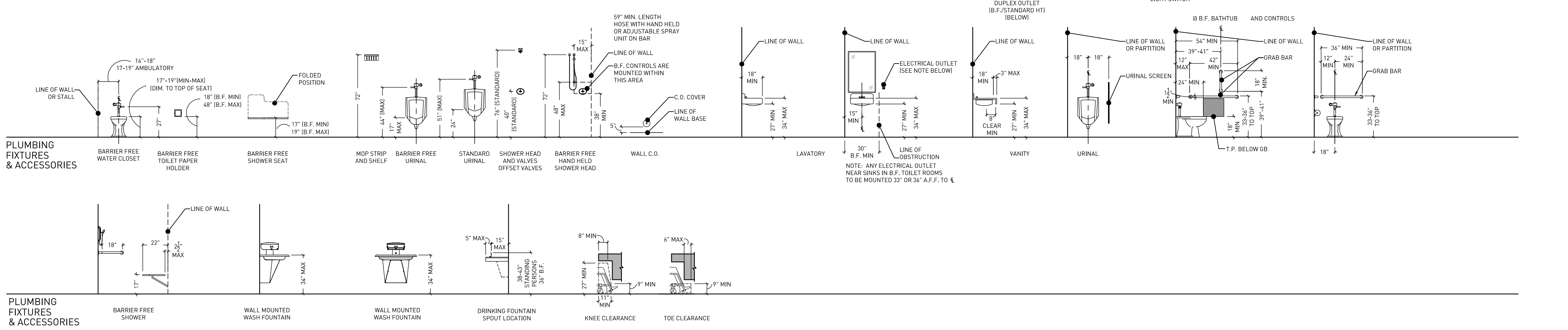
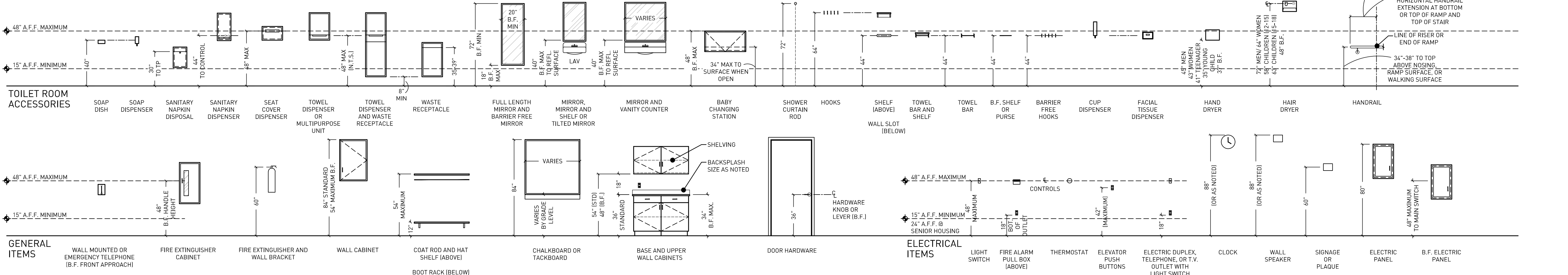
TTL

**ABBREVIATIONS**

A	C (CONTINUED):	D (CONTINUED):	F (CONTINUED):	H (CONTINUED):	M	P (CONTINUED):	S (CONTINUED):	W
ABV. ABOVE FINISH FLOOR	CAST IRON CATCH BASIN	DR. DOOR OPENING	F.D. FIRE DAMPER	HR. HOUR HYDRANT	MACH. MACHINE	PORC. PORCELAIN	S. SOUTH	WAINS. WAINSCOT
A.F.F. ACCESS	C.B. CATCH BASIN	D.O. DOOR OPERATOR	F.E. FIRE EXTINGUISHER	HYD. HYDRANT	MA.U. MAKE-UP AIR UNIT	PORC.ENAM. PORCELAIN ENAMEL	SP. SPACE	W.C.O. WALL CLEANOUT
ACC. ACCESS	C.L.G. CEILING	D.R. DOOR	F.E.C. FLASHING	INS. INSIDE DIMENSION	M.D.P. MAIN DISTRIBUTION PANEL	POR. POROUS	SPKR. SPEAKER	W.H. WALL HANGING
ACC. PNL. ACCESS PANEL	C.L.G.HT. CEILING HEIGHT	D.O.P. DOOR OPERATOR	F.L. FLEXIBLE CONNECTION	INCAN. INCANDESCENT	M.S.B. MAIN SWITCH BOARD	P.F. POUNDS PER LINEAR FOOT	SPEC. SPECIFICATIONS	W.F. WASH FOUNTAIN
ACT. ACOUSTICAL CEILING TILE	C.M. CEMENT	D.O.P. DOOR OPERATOR	F.L.C. FLOOR CLEANOUT	IN. INCHES	MAINT. MAINTENANCE	P.F.S. POUNDS PER SQUARE FOOT	SQ. SQUARE	W.C. WATER CLOSET
ADD. ADDENDUM	C.E.M. PLAS. CEMENT PLASTER	D.O.P. DOOR OPERATOR	F.L.F. FLOOR FINISH	INCL. INCLUDE/INCLUDING	M.H. MANHOLE	P.S. POUNDS PER SQUARE INCH	S.F. SQUARE FEET	W.H. WATER HEATER
ADJ. ADJACENT	C.E.M. CEMENT	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	INFORM. INFORMATION	M.F. MANUFACTURER	P.S.P. POUNDS PER SQUARE INCH PER SQUARE FOOT	S.S. STAINLESS STEEL	W.P. WATERPROOF
A.C. AIR CONDITIONING	C.C. CERAMIC	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	INT. INTERIOR	MAR. MARBLE	P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT	STD. STANDARD	W.W.F. WELDED WIRE FABRIC
A.C.C. AIR CONDITIONING COMPRESSOR	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	INSUL. INSULATE/INSULATION	M.O. MASONRY OPENING	P.P.C. POUNDS PER SQUARE INCH PER SQUARE FOOT	STM. STEAM	W. WEST
A.C.C.U. AIR COOLED CONDENSING UNIT	C.C.H. CHALKBOARD	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	INSTL. INSTALL/INSTALLATION	M.A. METAL	P.P.F. POUNDS PER SQUARE INCH PER SQUARE FOOT	STL. STEEL	W.W. WOOD
A.H.U. AIR HANDLING UNIT	C.C.M. CONCRETE MASONRY UNITS	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	INT. INTERIOR	M.M. METAL MESH	P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
AL. ALIGN	C.W. COLD WATER	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	INV. INVERT	M.M.E. METAL MESH ENAMEL	P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
AL. ALTERNATE	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	I.E. INVERT ELEVATION	M.M.L. METAL MESH LATH	P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
ALUM./AL. ALUMINUM	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J. JUNCTION	M.M.L.P. METAL MESH LATH & PLASTER	P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
ANCH. ANCHOR	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.C. JANITOR CLOSET	M.M.L.P.L. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
AND. ANCHOR BOLT	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
ANG./L OR L ANGLE	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
ANDOD. ANCHORED	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
APT. APARTMENT	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
APPR. APPROVED	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
APPROX. APPROXIMATE	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
ARCH. ARCHITECT/ARCHITECTURAL	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
A.T.M. AUTOMATIC TELLER MACHINE	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
ASPH. ASPHALT	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
ASSEMB. ASSEMBLY	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
AT. AT	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
AUTO. AUTOMATIC	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
AUX. AUXILIARY	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
AVG. AVERAGE	C.W.S. COLD WATER SUPPLY	D.O.P. DOOR OPERATOR	F.L.F.F. FLOOR FINISH FINISH	J.J. JOINT	M.M.L.P.L.P.L.P. METAL MESH LATH & PLASTER LATH	P. POUNDS PER SQUARE INCH PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT PER SQUARE FOOT	STR. STRUCTURAL	W.W.F. WELDED WIRE FABRIC
B. BACK	D. DAMPER	D. DAMPER	D. DAMPER	D. DAMPER	D. DAMPER	D. DAMPER	D. DAMPER	D. DAMPER
B/B. BACK TO BACK	D.M.P. DAMP PROOFING	D.M.P. DAMP PROOFING	D.M.P. DAMP PROOFING	D.M.P. DAMP PROOFING	D.M.P. DAMP PROOFING	D.M.P. DAMP PROOFING	D.M.P. DAMP PROOFING	D.M.P. DAMP PROOFING
B.F.P. BACK FLOW PREVENTER	D.D. DEAD LOAD	D.D. DEAD LOAD	D.D. DEAD LOAD	D.D. DEAD LOAD	D.D. DEAD LOAD	D.D. DEAD LOAD	D.D. DEAD LOAD	D.D. DEAD LOAD
B.F.D. BACK DRAFT DAMPER	D.B. DEBRIS	D.B. DEBRIS	D.B. DEBRIS	D.B. DEBRIS	D.B. DEBRIS	D.B. DEBRIS	D.B. DEBRIS	D.B. DEBRIS
B.F. BARRIER FREE	D. DEEP	D. DEEP	D. DEEP	D. DEEP	D. DEEP	D. DEEP	D. DEEP	D. DEEP
B.B.R. BASE BOARD RADIATION	D.M.T. PARTN. DEMOUNTABLE PARTITION	D.M.T. PARTN. DEMOUNTABLE PARTITION	D.M.T. PARTN. DEMOUNTABLE PARTITION	D.M.T. PARTN. DEMOUNTABLE PARTITION	D.M.T. PARTN. DEMOUNTABLE PARTITION	D.M.T. PARTN. DEMOUNTABLE PARTITION	D.M.T. PARTN. DEMOUNTABLE PARTITION	D.M.T. PARTN. DEMOUNTABLE PARTITION
B.S.M.T. BASE MOUNT	D. DETAIL	D. DETAIL	D. DETAIL	D. DETAIL	D. DETAIL	D. DETAIL	D. DETAIL	D. DETAIL
B.P. BASE PLATE	D.E.C. DETROIT EDISON COMPANY	D.E.C. DETROIT EDISON COMPANY	D.E.C. DETROIT EDISON COMPANY	D.E.C. DETROIT EDISON COMPANY	D.E.C. DETROIT EDISON COMPANY	D.E.C. DETROIT EDISON COMPANY	D.E.C. DETROIT EDISON COMPANY	D.E.C. DETROIT EDISON COMPANY
B.SMT. BASEMENT	D. DIAGONAL	D. DIAGONAL	D. DIAGONAL	D. DIAGONAL	D. DIAGONAL	D. DIAGONAL	D. DIAGONAL	D. DIAGONAL
BM. BEAM	D. DIAMETER	D. DIAMETER	D. DIAMETER	D. DIAMETER	D. DIAMETER	D. DIAMETER	D. DIAMETER	D. DIAMETER
B/C. BACK OF CURB	D. DIMENSION	D. DIMENSION	D. DIMENSION	D. DIMENSION	D. DIMENSION	D. DIMENSION	D. DIMENSION	D. DIMENSION
BRB. BRICK	D. DIRECTION	D. DIRECTION	D. DIRECTION	D. DIRECTION	D. DIRECTION	D. DIRECTION	D. DIRECTION	D. DIRECTION
B.M. BENCHMARK	D. DISCONNECT	D. DISCONNECT	D. DISCONNECT	D. DISCONNECT	D. DISCONNECT	D. DISCONNECT	D. DISCONNECT	D. DISCONNECT
BT. BENT	D. DISHWASHER	D. DISHWASHER	D. DISHWASHER	D. DISHWASHER	D. DISHWASHER	D. DISHWASHER	D. DISHWASHER	D. DISHWASHER
BETW. BETWEEN	D. DISPENSER	D. DISPENSER	D. DISPENSER	D. DISPENSER	D. DISPENSER	D. DISPENSER	D. DISPENSER	D. DISPENSER
BEV. BEVEL	D. DIST. DISTRIBUTION	D. DIST. DISTRIBUTION	D. DIST. DISTRIBUTION	D. DIST. DISTRIBUTION	D. DIST. DISTRIBUTION	D. DIST. DISTRIBUTION	D. DIST. DISTRIBUTION	D. DIST. DISTRIBUTION
BIT. BITUMINOUS	D. DIV. DIVIDER/DIVISION	D. DIV. DIVIDER/DIVISION	D. DIV. DIVIDER/DIVISION	D. DIV. DIVIDER/DIVISION	D. DIV. DIVIDER/DIVISION	D. DIV. DIVIDER/DIVISION	D. DIV. DIVIDER/DIVISION	D. DIV. DIVIDER/DIVISION
B.I. BLACK IRON								
BLK. BLOCK								
BLKG. BLOCKING								
BD. BOARD								
BLR. BOILER								
BK. SH. BOOK SHELVES								
BOTTOM								
BOT. EL. BOTTOM ELEVATION								
B.O.V. BOULEVARD								
BDRY. BOUNDARY								
BRKT. BRACKET								
BTU. BRITISH THERMAL UNIT								
BLDG. BUILDING								
B.U.R. BUILT UP ROOFING								
BUZZ. BUZZER								
C. CABINET								
CAP. CAPACITY								
CAR. CARPET								

**TYPICAL MOUNTING HEIGHTS**

MISCELLANEOUS ACCESSORIES, TOILET ACCESSORIES AND FIXTURES  
NOTE: MOUNTING HEIGHTS SHOWN ARE PROPOSED FOR ALL ACCESSORIES AND FIXTURES REQUIRED UNLESS OTHERWISE NOTED OR DIMENSIONED ON DRAWINGS FOR SPECIFIC CONDITIONS (B.F. DENOTES BARRIER FREE REQUIREMENTS)



**REFERENCE SYMBOLS**

DETAIL IDENTIFICATION	DETAIL LOCATION INDICATION	SECTION IDENTIFICATION	ELEVATION INDICATION	ELEVATION INDICATION	DOOR INDICATION	ROOM NAME AND NUMBER	DOOR IDENTIFICATION	COLUMN INDICATION	NORTH INDICATION
1 Detail Title A20 1/4"=1'-0"	WALL SECTIONS PLAN SECTIONS	SECTION IDENTIFICATION NUMBER	ELEVATION IDENTIFICATION NUMBER	ELEVATION IDENTIFICATION NUMBER	DOOR SWING INDICATION	ROOM NAME AND NUMBER	DOOR IDENTIFICATION	COLUMN IDENTIFICATION LETTER OR NUMBER FOR NEW CONSTRUCTION	NORTH INDICATION
1 Detail Title A20 1/4"=1'-0"	WALL SECTIONS PLAN SECTIONS	SECTION IDENTIFICATION NUMBER	ELEVATION IDENTIFICATION NUMBER	ELEVATION IDENTIFICATION NUMBER	DOOR SWING INDICATION	ROOM NAME AND NUMBER	DOOR IDENTIFICATION	COLUMN IDENTIFICATION LETTER OR NUMBER FOR EXISTING CONSTRUCTION	NORTH INDICATION
1 Detail Title A20 1/4"=1'-0"	WALL SECTIONS PLAN SECTIONS	SECTION IDENTIFICATION NUMBER	ELEVATION IDENTIFICATION NUMBER	ELEVATION IDENTIFICATION NUMBER	DOOR SWING INDICATION	ROOM NAME AND NUMBER	DOOR IDENTIFICATION	COLUMN IDENTIFICATION LETTER OR NUMBER FOR EXISTING CONSTRUCTION	NORTH INDICATION

**General Information**

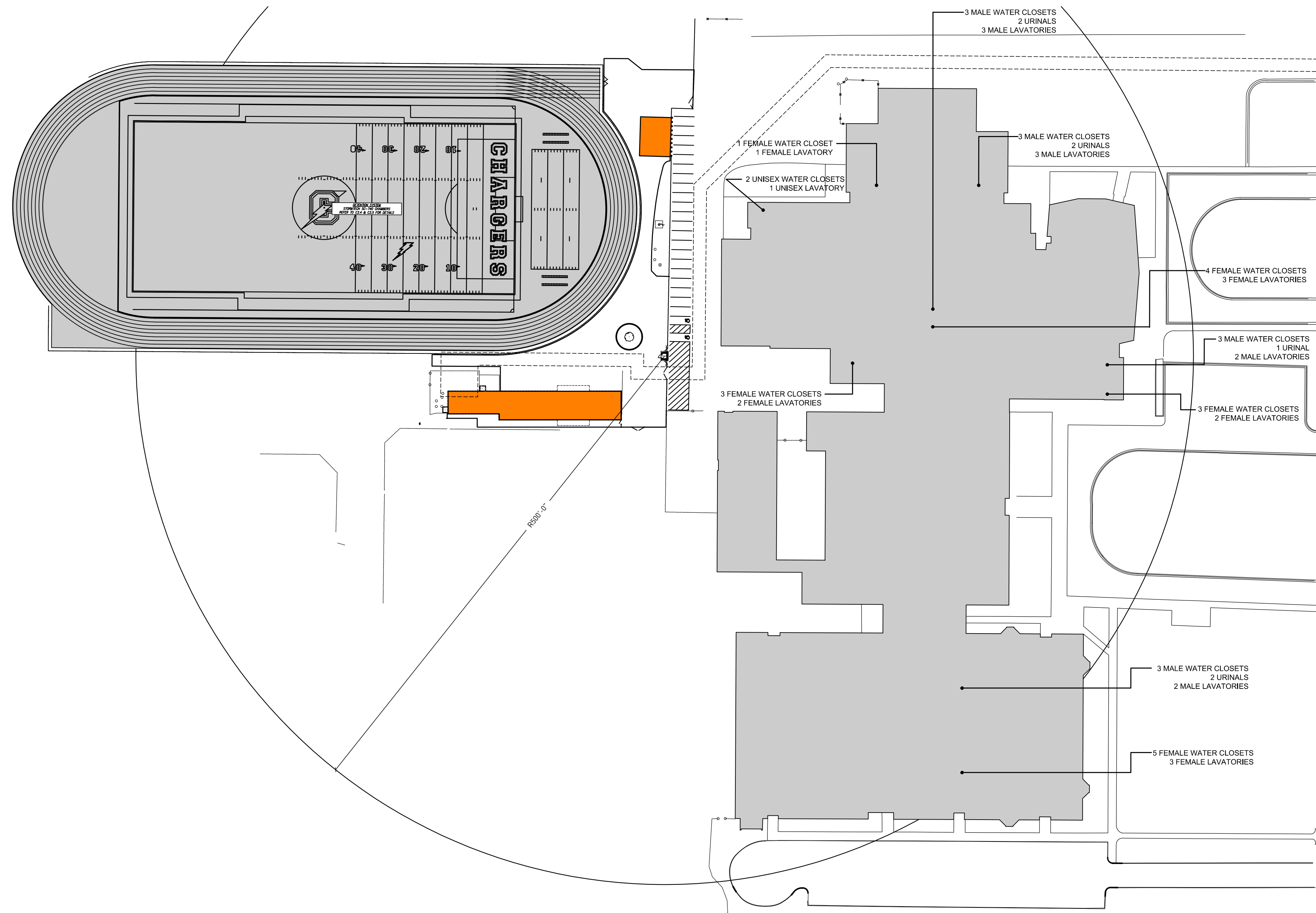
**EHRESMAN ARCHITECTS**

Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

**A0.00**

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**PLUMBING COUNT:**

PER TABLE 403.1, OF THE 2015 MICHIGAN PLUMBING CODE, THE MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES FOR A-5 ASSEMBLY OCCUPANCY, BASED ON BLEACHER SEATING OF 1779.

- 1. WATER CLOSETS: 1 PER 125 MALE / 1 PER 65 FEMALE
- 1a. CALCULATION =  $1779 / 125 = 14.232$  OCCUPANTS PER GENDER (ROUNDED)
- 1b. CONCLUSION: 7 MALE WATER CLOSET REQUIRED (ROUNDED)
- 1c. PROVIDED: 5 MALE WATER CLOSETS AND 7 UNISEX WATER CLOSETS

ADDITIONAL EXISTING RESTROOMS FACILITIES PROVIDED WITHIN THE ADJACENT SCHOOL BUILDING (LESS THAN 500' WALK).

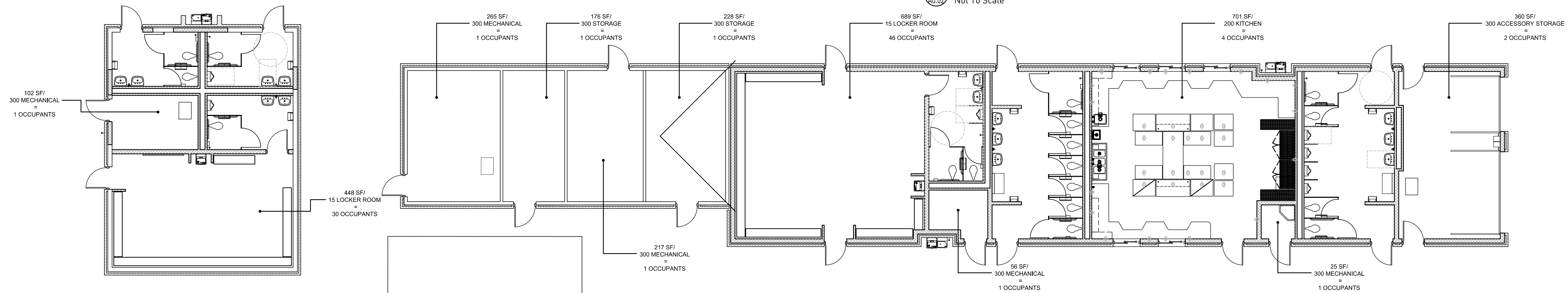
- 2. LAVATORIES: 1 PER 200 MALE / 1 PER 150 FEMALE
- 2a. CALCULATION =  $1779 / 200 = 8.895$  OCCUPANTS PER GENDER
- 2b. CONCLUSION: 5 MALE LAVATORY REQUIRED (ROUNDED)
- 2c. PROVIDED: 6 FEMALE LAVATORIES  
5 MALE LAVATORIES  
4 UNISEX LAVATORY

ADDITIONAL EXISTING RESTROOMS FACILITIES PROVIDED WITHIN THE ADJACENT SCHOOL BUILDING (LESS THAN 500' WALK).

- 3. DRINKING FOUNTAINS: 1 PER 1000
- 3a. CALCULATION =  $1779 / 1000 = 1.779$  (ROUNDED)
- 3b. CONCLUSION: 2 DRINKING FOUNTAIN REQUIRED
- 3c. PROVIDED: 8 DRINKING FOUNTAINS

- 4. 1 SERVICE SINK REQUIRED.
- 4a. PROVIDED: 1 SERVICE SINK

1 Building Plumbing Fixture Plan  
A0.02 Not To Scale



2 Building B Occupant Load Plan  
A0.01 Scale: 1/8"=1'-0"

**OCCUPANT LOAD:**

PER TABLE 1004.1.2, THE MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT SHALL BE AS FOLLOWS:

- 1. LOCKER ROOMS: 15 SF GROSS
- 2. MECHANICAL: 300 SF GROSS

CALCULATION		
1. LOCKER ROOMS:	448 SF / 15 =	30 OCCUPANTS
2. MECHANICAL:	102 SF / 300 =	1 OCCUPANTS
	<b>TOTAL =</b>	<b>31 OCCUPANTS</b>

1 Building A Occupant Load Plan  
A0.01 Scale: 1/8"=1'-0"

**OCCUPANT LOAD:**

PER TABLE 1004.1.2, THE MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT SHALL BE AS FOLLOWS:

- 1. LOCKER ROOMS: 15 SF GROSS
- 2. STORAGE: 300 SF GROSS
- 3. MECHANICAL: 300 SF GROSS
- 4. KITCHENS: 200 SF GROSS
- 5. ACCESSORY STORAGE: 300 SF GROSS

CALCULATION		
1. LOCKER ROOMS:	689 SF / 15 =	46 OCCUPANTS
2. STORAGE:	404 SF / 300 =	2 OCCUPANTS
3. MECHANICAL:	563 SF / 300 =	2 OCCUPANTS
4. KITCHENS:	701 SF / 200 =	4 OCCUPANTS
5. ACCESSORY STORAGE:	360 SF / 300 =	2 OCCUPANTS
	<b>TOTAL =</b>	<b>56 OCCUPANTS</b>

Bidding and Permits: 20 March 2023

Code Review Plan

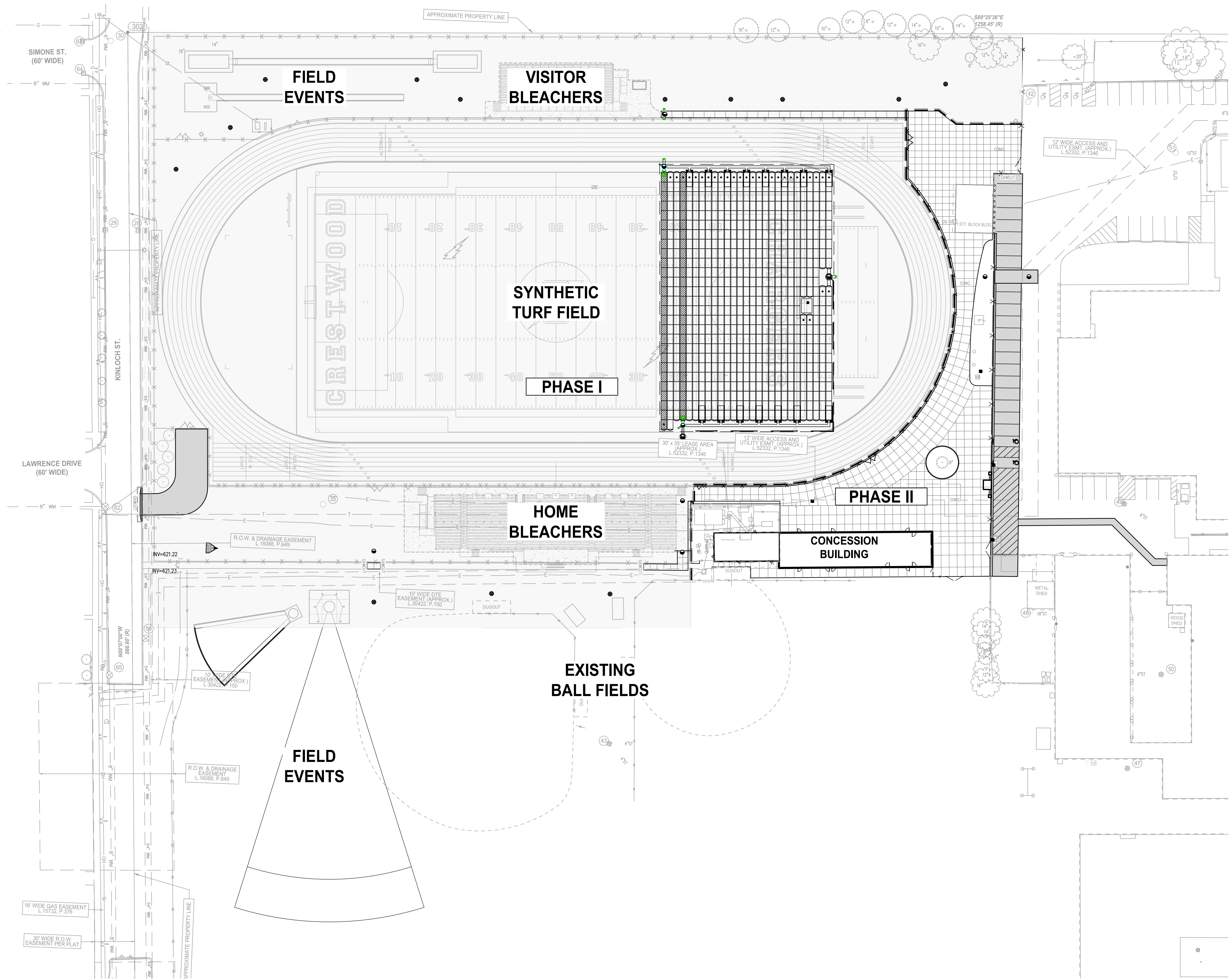


Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622



A0.01

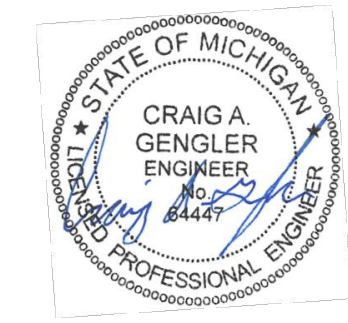


**LEGEND**

--- PROPOSED WATERMAIN	● PROPOSED SAN MANHOLE (SAN)
--- PROPOSED SANITARY	● PROPOSED STORM MANHOLE (MH)
--- PROPOSED STORM SEWER	■ PROPOSED CATCH BASIN (CB)
--- PROPOSED GAS MAIN	■ PROPOSED INLET (IN)
--- PROPOSED ELECTRIC	▶ PROPOSED END SECTION (ES)
● PROPOSED HYDRANT	⊙ PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER
● PROPOSED GATE VALVE & WELL (GVW)	② UTILITY CROSSING (SEE DATA TABLE)
⊙ PROPOSED TAPPING SLEEVE VALVE & WELL (TSVW)	STORM SEWER STRUCTURE
■ STANDARD BITUMINOUS PAVEMENT	CB STRUCT. TYPE 2 STRUCT. NO.
■ HEAVY-DUTY BITUMINOUS PAVEMENT	SANITARY SEWER STRUCTURE
■ DEEP-STRENGTH BITUMINOUS PAVEMENT	20
■ CONCRETE PAVEMENT	WATERMAIN STRUCTURE
■ CONCRETE SIDEWALK	10 STRUCT. NO. XXX STRUCT. TYPE
■ MILL PAVEMENT	



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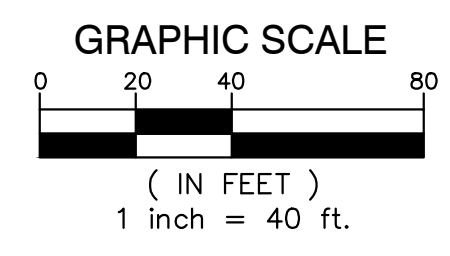
GENERAL PLAN

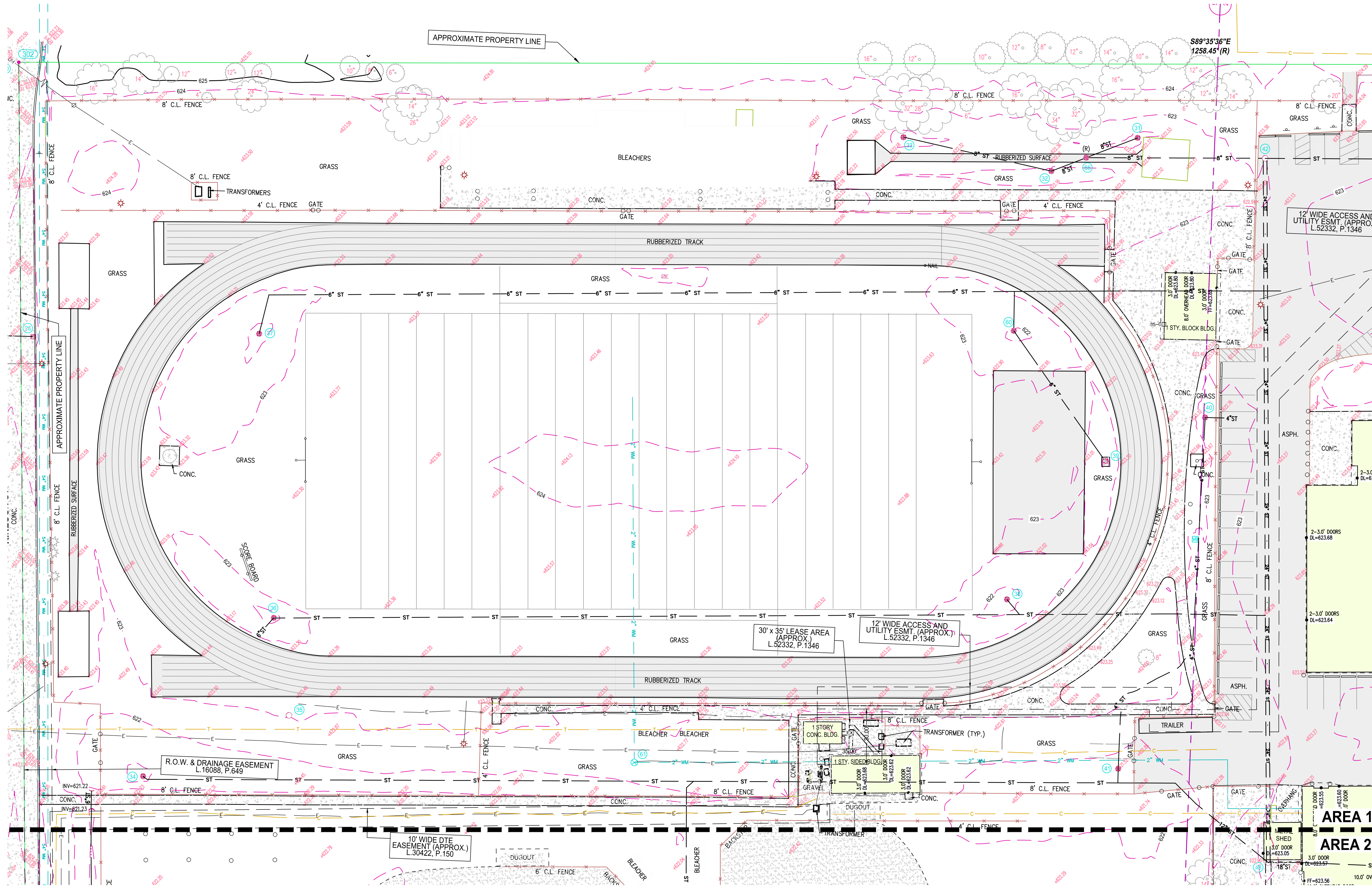


Crestwood School District  
 Crestwood High School  
 Site Improvements

Project No. 2522 (SDA NP22067)

C1.0





### LEGEND

○	MANHOLE
□	CATCH BASIN
○	C.O. SEWER CLEAN OUT
○	GAS METER
○	GAS SHUT OFF VALVE
○	VALVE BOX
○	GATE VALVE & WELL
○	WATER SHUT OFF VALVE
○	FIRE HYDRANT
○	SPRINKLER VALVE BOX
○	LAWN SPRINKLER HEAD
○	UNVERIFIED MAPPED OBJECT
○	ELECTRIC RISER OR METER
○	TELEPHONE RISER
○	CABLE TV RISER
○	AIR CONDITION UNIT
○	UTILITY POLE
○	UTILITY POLE W/ LAMP EXTENSION
○	(ARROW INDICATES DIRECTION OF ARM)
○	LIGHT POLE
○	LIGHT POLE WITH LAMP EXTENSION
○	TRAFFIC SIGNAL
○	POLE W/ TRAFFIC SIGNAL (OVER ROAD)
○	GUY WIRE
○	GROUND LEVEL/DECORATIVE LIGHTING
○	FLAG POLE
○	METAL OR CONC. POST
○	MAILBOX
○	SIGN
○	WATER FOUNTAIN
○	PARKING METER
○	BILLBOARD OR LARGE SIGN
○	BASKETBALL HOOP
○	BOULDER
○	STATUE OR SCULPTURE
○	BENCH
○	BIKE RACK
○	PICNIC TABLE
○	SOCCER GOAL
○	STUMP
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○	UG UNDERGROUND
○	FO FIBER OPTIC
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○	ASPH ASPHALT
○	FF FINISH FLOOR ELEVATION
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○	M MEASURED
○	R RECORD
○	C CALCULATED
○	INV. INVERT ELEVATION
○	CMP CORRUGATED METAL PIPE
○	SN SANITARY SEWER (SN)
○	ST STORM SEWER (STM)
○	WM WATERMAIN (WM)
○	CH OVERHEAD WIRE
○	CS COMBINED SEWER
○	STE STEAM LINE
○	OL OIL LINE
○	UG FIBER (COMM.)
○	UG ELECTRIC (ELEC.)
○	UG PHONE (PH)
○	UG CABLE (CBL)
○	CHAIN LINK FENCE (CL)
○	WOOD FENCE
○	WOVEN WIRE FENCE (WW)
○	GUARD RAIL
○	EDGE OF BRUSHWOODS
○	CALVERT
○	CENTERLINE OF DITCH
○	MAJOR CONTOUR
○	MINOR CONTOUR
○	BOUNDARY LINES
○	ROW LINES
○	SECTION LINES
○	PROPERTY LINES
○	ASPHALT
○	CONCRETE
○	GRAVEL/DIRT/MULCH
○	BRICK/PAVERS
○	WATER

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### INFORMATIONAL TITLE EXCEPTION COMMENTS

COMMITMENT ISSUED BY: ASK SERVICES SERVICES  
COMMITMENT NUMBER: 12022328  
EFFECTIVE DATE: 03/30/2022

MEMORANDUM  
RECORDED DATE: 06-29-2015  
LIBERPAGE: 52332 / 1346  
REMARKS: LEASE AREA & 12' ACCESS AND UTILITY EASEMENT AS SHOWN ON DRAWING.  
SDA COMMENTS: AS SHOWN ON DRAWING.

AGREEMENT  
RECORDED DATE: 01-10-2001  
LIBERPAGE: 33064 / 1450  
REMARKS: LEASE AGREEMENT  
SDA COMMENTS: NOT SHOWN

UTILITY EASEMENT  
RECORDED DATE: 08-23-1999  
LIBERPAGE: 30422 / 150  
REMARKS: 10' UNDERGROUND EASEMENT RIGHT OF WAY AS SHOWN ON DRAWING.  
SDA COMMENTS: AS SHOWN ON DRAWING.

GRANT OF EASEMENT  
RECORDED DATE: 08-02-1986  
LIBERPAGE: 16086 / 948  
REMARKS: EASEMENT GRANTED TO THE CITY OF DEARBORN HEIGHTS.  
SDA COMMENTS: AS SHOWN ON DRAWING.

### SURVEYOR'S COMMENTS

- THIS TOPOGRAPHICAL MAP IS BASED UPON A FIELD SURVEY PERFORMED BY SPALDING DEDECKER INC. DURING MAY OF 2022.
- THE PROPERTY LINES/RIGHT-OF-WAY LINES SHOWN ON THIS TOPOGRAPHICAL SURVEY ARE INTENDED TO BE AN APPROXIMATE GRAPHICAL REPRESENTATION BASED UPON A COMBINATION OF A PROVIDED LEGAL DESCRIPTION, FOUND FIELD MONUMENTATION AND OCCUPATION. A COMPLETE PROPERTY LINE ANALYSIS HAS NOT BEEN PERFORMED AND PROPERTY CORNERS HAVE NOT BEEN SET IN THE FIELD PER THE AGREED TO SCOPE OF SERVICES.
- THIS SURVEY HAS BEEN PREPARED WITH THE BENEFIT OF A CURRENT TITLE SEARCH. A 100 YEAR INFORMATIONAL TITLE SEARCH BY ASK SERVICES HAVING AN ORDER NUMBER OF 12022328 AND AN EFFECTIVE DATE OF 03-30-2022 HAS BEEN PROVIDED TO SPALDING DEDECKER. ALL PLOTTABLE ENCUMBRANCES LISTED ON SCHEDULE B EXCEPTIONS OF THIS TITLE SEARCH HAVE BEEN SHOWN ON THIS SURVEY IF THEY FALL WITHIN THE LIMITS OF DETAILED MAPPING. FURTHERMORE, EACH PLOTTABLE EXCEPTION IS DETAILED ON THE "INFORMATIONAL TITLE EXCEPTION COMMENTS" TABLE ON THIS SURVEY.
- THE BASIS OF BEARINGS FOR THIS SURVEY IS THE LEGAL DESCRIPTION PER ASK SERVICES TITLE POLICY. THE COORDINATE SYSTEM FOR THIS SURVEY IS THE STATE PLANE COORDINATE SYSTEM, MICHIGAN SOUTH ZONE (2113) BASED ON NAD83 (2011).
- PROPERTY LINES HAVE BEEN ROTATED TO STATE PLANE GRID BEARINGS; THEREFORE, THE BEARINGS OF THE PROPERTY LINES ON THE DRAWING WILL NOT MATCH THOSE SHOWN IN THE LEGAL DESCRIPTION.
- THE VERTICAL DATUM OF THIS SURVEY IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88) AS ESTABLISHED WITH RTK GPS MEASUREMENTS USING A DATA LINK TO THE MDOOT CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS).
- THE PARKING LOT STRIPING SHOWN ON THIS SURVEY IS APPROXIMATE. DIMENSIONAL AND/OR ORIENTATION VARIATIONS MAY EXIST. THIS DRAWING SHOULD NOT BE USED FOR A PARKING SPACE COUNT.
- THE UTILITY INFORMATION SHOWN ON THIS SURVEY IS BASED UPON A COMBINATION OF RECORD INFORMATION AND FIELD MEASUREMENTS. A MISS DIG DESIGN TICKET NUMBER OF 202203290465 HAS BEEN REFERENCED TO THIS PROJECT AND A UTILITY PROVIDER CHART IS SHOWN ON THIS DRAWING. THERE ARE NO ASSURANCES THAT ALL PROVIDERS HAVE RESPONDED AND THE SURVEYOR DOES NOT GUARANTEE THAT ALL UNDERGROUND UTILITIES ARE SHOWN AND/OR POSITIONED PROPERLY ON THIS DRAWING DUE TO AMBIGUOUS PLANS AND RECORDS PROVIDED TO US. THE INFORMATION SHOWN ON THIS DRAWING IS INTENDED TO BE USED AS A GUIDE FOR POSSIBLE UNDERGROUND UTILITY CONFLICTS. IT IS THE RESPONSIBILITY OF OTHERS TO RESOLVE THE ACTUAL LOCATION OF ANY UNDERGROUND UTILITY THROUGH THE MISS DIG FIELD VERIFICATION SYSTEM PRIOR TO ANY SITE EXCAVATION. CALL 811 OR 800-482-7171.

### BENCHMARK DESCRIPTIONS

DATUM: GPS-DERIVED NAVD88

**SITE BM#100**  
TOP OF NUT ON HYDRANT, LOCATED ON THE WEST SIDE OF BEECH DALY ROAD ±340' NORTH OF THE CENTER OF SOUTHERNMOST ACCESS DRIVE FOR CRESTWOOD HIGH SCHOOL. ELEV.=623.73

**SITE BM#101**  
CHISELED "X" ON NORTH RIM OF STORM MANHOLE (STRUCTURE No. 27), LOCATED ±30' SOUTH AND ±15' WEST OF THE SOUTHEAST BUILDING CORNER OF CRESTWOOD HIGH SCHOOL. ELEV.=622.11

**SITE BM#102**  
CHISELED "X" ON NORTH SIDE OF CONCRETE LIGHT POLE BASE IN NORTH PARKING LOT, LOCATED ±90' SOUTH AND ±175' WEST OF THE NORTHEAST PROPERTY CORNER. ELEV.=624.49

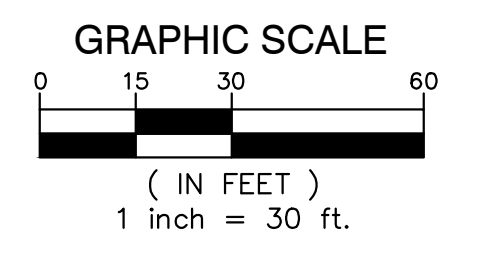
### LEGAL DESCRIPTION

SOURCE: ASK SERVICES  
OWNER: CRESTWOOD SCHOOL DISTRICT  
TAX PARCEL ID: 33101 98 0006 000  
ADDRESS: 1501 N. BEECH DALY ROAD, DEARBORN HEIGHTS, MI 48127

THAT PART OF THE NE 1/4 OF SECTION 18 DESCRIBED AS BEGINNING AT A POINT ON THE E SECTION LINE DISTANCE N 00 07M E 459.14 FT FROM THE E 1/4 CORNER OF SEC 18 AND PROCEEDING TH N 89D 35M 36SEC W 1314.92 FT TH N 0D 07M 866.60 FT TH S 89D 35M 36SEC E 1318.45 FT TH S 0D 07M W ALONG THE E SECTION LINE 866.57 FT TO THE POB EXCEPT THE EAST 60 FT THEREOF 25.00 ACRES



**LOCATION MAP**  
NOT TO SCALE

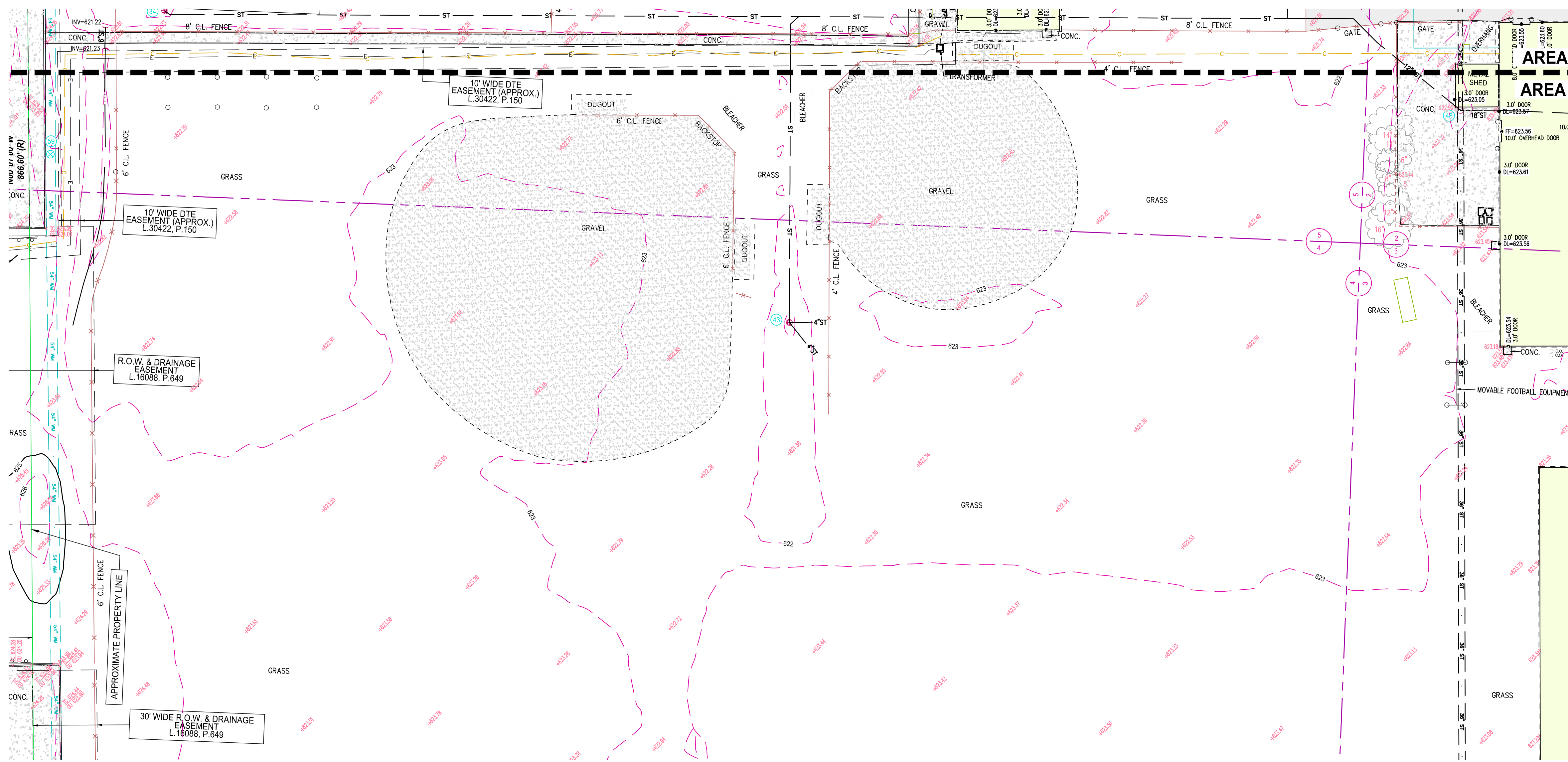


Topographical Survey – Area 1  
**EHRESMAN ARCHITECTS**  
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Crestwood School District  
Crestwood High School  
Site Improvements

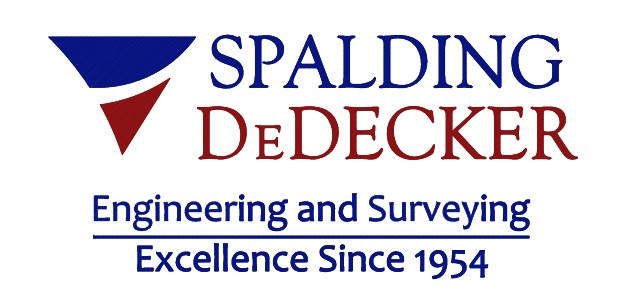
Project No. 2522 (SDA NP22067)

C1.1

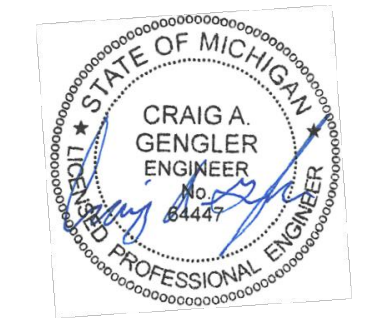


### LEGEND

	MANHOLE
	CATCH BASIN
	C.O. SEWER CLEAN OUT
	GAS METER
	GAS SHUT OFF VALVE
	VALVE BOX
	GATE VALVE & WELL
	WATER SHUT OFF VALVE
	FIRE HYDRANT
	SPRINKLER VALVE BOX
	LAWN SPRINKLER HEAD
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	MAILBOX
	SIGN
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	PARKING METER
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	CONC CONCRETE
	ASPH ASPHALT
	FF FINISH FLOOR ELEVATION
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	ST STORM SEWER (STM)
	WM WATERMAIN (WM)
	OH OVERHEAD WIRE
	CS COMBINED SEWER
	STE STEAM LINE
	OIL OIL LINE
	F UG FIBER (COMM.)
	E UG ELECTRIC (ELEC.)
	PH UG PHONE (PH)
	C UG CABLE (CBL)
	CL CHAIN LINK FENCE (CL)
	WF WOOD FENCE
	WW WOVEN WIRE FENCE (WW)
	GR GUARD RAIL
	EBW EDGE OF BRUSH/WOODS
	CD CENTERLINE OF DITCH
	CU CULVERT
	MS MAJOR CONTOUR
	MSI MINOR CONTOUR
	BL BOUNDARY LINES
	RL ROW LINES
	SL SECTION LINES
	PL PROPERTY LINES
	ASPH ASPHALT
	CONC CONCRETE
	GRV/DIR/MULCH GRAVEL/DIRT/MULCH
	BRK/PVRS BRICK/PAVERS
	WTR WATER



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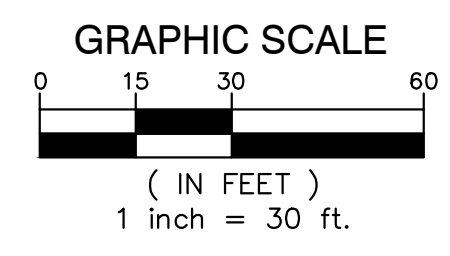
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Topographical Survey – Area 2



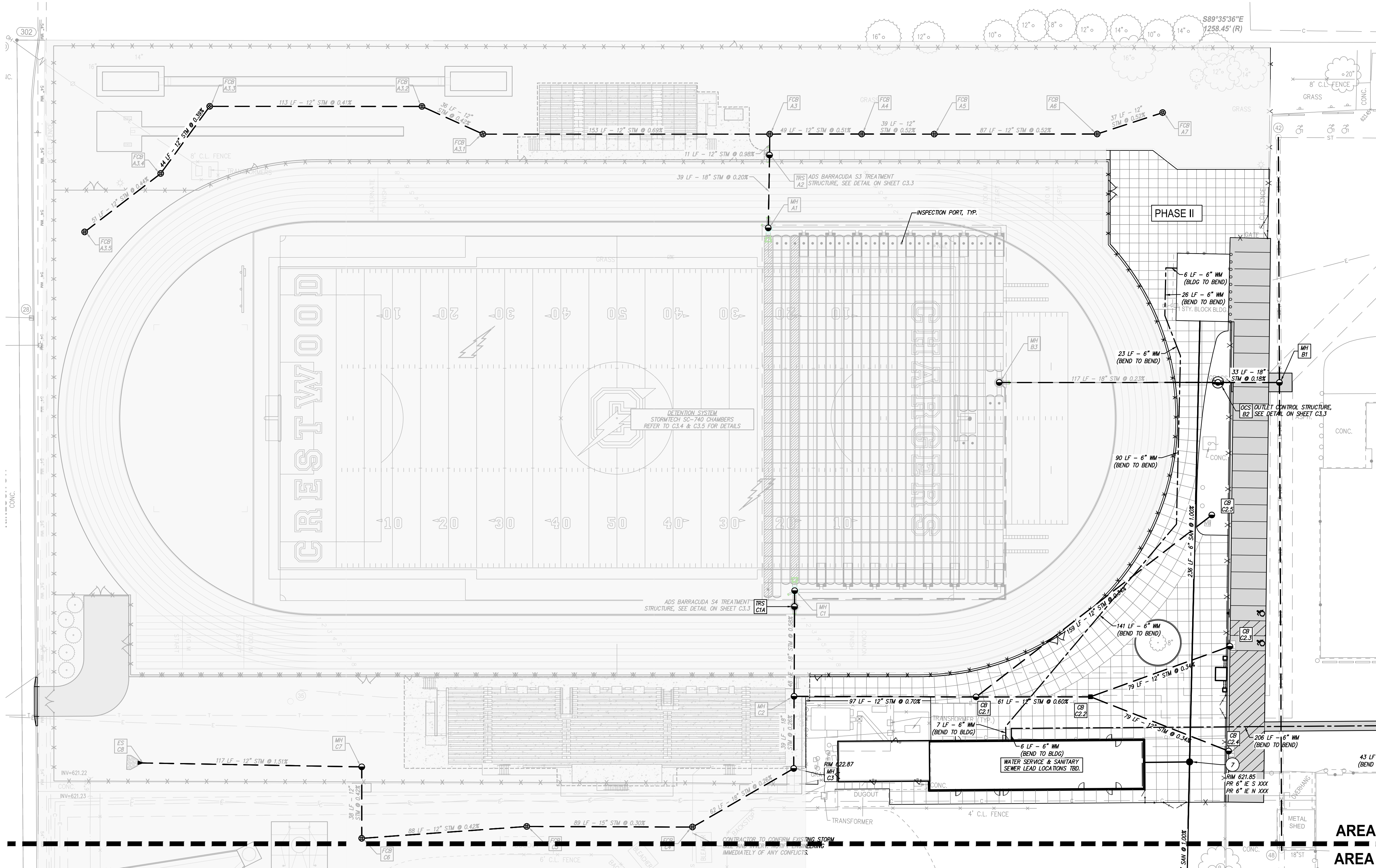
Crestwood School District  
 Crestwood High School  
 Site Improvements

Project No. 2522 (SDA NP22067)



C1.2





**LEGEND**

- PROPOSED WATERMAIN
- PROPOSED SANITARY
- PROPOSED STORM SEWER
- PROPOSED GAS MAIN
- PROPOSED ELECTRIC
- PROPOSED HYDRANT
- PROPOSED GATE VALVE & WELL (GW)
- PROPOSED TAPPING SLEEVE VALVE & WELL (TSW)
- PROPOSED SAN MANHOLE (SAN)
- PROPOSED STORM MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- PROPOSED INLET (INL)
- PROPOSED END SECTION (ES)
- PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER
- STANDARD BITUMINOUS PAVEMENT
- HEAVY-DUTY BITUMINOUS PAVEMENT
- DEEP-STRENGTH BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- MILL PAVEMENT
- UTILITY CROSSING (SEE DATA TABLE)
- STORM SEWER STRUCTURE: CB - STRUCT. TYPE, 2 - STRUCT. NO.
- SANITARY SEWER STRUCTURE: 20 - STRUCT. NO.
- WATERMAIN STRUCTURE: 10 - STRUCT. NO., XXX - STRUCT. TYPE

- UTILITY NOTES**
- STORM SEWER 12" AND LARGER SHALL BE C76 CL IV (PREM-JT.) UNLESS OTHERWISE NOTED ON THE PLAN.
  - STORM SEWER 6" AND SMALLER SHALL BE PVC SDR 25.5. STORM SEWER GREATER THAN 6" THROUGH 10" SHALL BE PVC SDR 26.
  - ALL UTILITY TRENCHES THAT FALL WITHIN A 1-ON-1 INFLUENCE OF PAVEMENT AREAS SHALL BE BACKFILLED WITH CLASS 2 SAND AND COMPACTED TO SPEC OF MAXIMUM DENSITY.
  - ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF XXXXXXXXXXXXXXX.
  - ALL UTILITIES SHALL BE INSTALLED ON CLASS "B" BEDDING OR BETTER.
  - ALL UTILITIES SHALL BE PLACED AT LEAST 10' FROM OTHER UTILITIES, SIGNIFICANT TREES, AND FIXED STRUCTURES.
  - UNLESS OTHERWISE NOTED, ALL STORM SEWER STRUCTURES SHALL BE 4' DIAMETER (INLETS SHALL BE 2' DIAMETER). CONTRACTOR IS RESPONSIBLE FOR VERIFYING STRUCTURES SIZES IN RELATION TO PIPE SIZES AND ANGLES AND PRICING THEIR BID ACCORDINGLY. UNLESS OTHERWISE INDICATED ON THE STANDARD DETAIL SHEETS CASTINGS SHALL BE PI-MET. CATCH BASINS - E-W 5105 - "M" (FRAMES WITH CURB BOXES WILL NOT BE ALLOWED). YARD CATCH BASINS - E-W 1040 - "D2" MANHOLES - E-W 1040 - "A".
  - PLACEMENT OF EDGE DRAINS AND FINGER DRAINS AT ALL PAVEMENT CATCH BASINS IS REQUIRED. SEE STRUCTURE UNDERDRAIN DETAIL SHEET C1X.
  - FOR CURB CATCH BASINS, SEE BASIN LOCATION DETAIL FOR BASIN STAKING RELATIVE TO THE CURB.
  - LOCATIONS OF LIGHT POLES, IF SHOWN ON THESE DRAWINGS, MAY BE APPROXIMATE. CONFIRM EXACT LOCATION (I.E. CURB OFFSETS, SIDEWALK OFFSETS, ETC.) PRIOR TO STAKING AND CONSTRUCTION. REFER TO SITE ELECTRICAL PLAN FOR DETAILS, AND COORDINATE WITH ELECTRICAL ENGINEER, ARCHITECT, AND CIVIL ENGINEER TO DETERMINE PROPER PLACEMENT.



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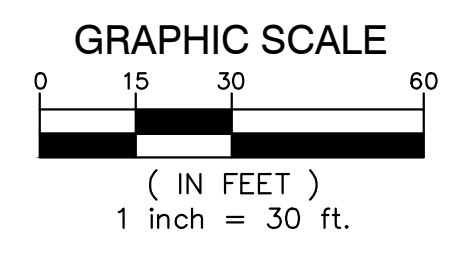
STRUCTURE	UP	DN	AREA	C	EQUIV.	TOTAL	T	I	Q	CAPACITY	DIAM.	LENGTH	SLOPE	MIN HG	HG	VELOCITY	TIME	H.G.L. ELEV.	GROUND ELEV.	INVERT ELEV.
STREAM	STREAM	AREA (ACRES)	RUNOFF COEF.	AREA (C x A)	AREA (SUM C x A)	TIME (MIN.)	INTENSITY (IN / HR)	FLOW (C.F.S.)	PIPE (C.F.S.)	OF PIPE (C.F.S.)	(IN.)	(FT.)	(%)	(%)	(%)	(FT / SEC)	FLOW (MIN.)	UPPER END	LOWER END	UPPER END
<b>ON-SITE DESIGN</b>																				
C8	C7	1.06	0.41	0.43	0.43	15.00	4.38	1.89	4.37	12	117	1.51	0.28	1.51	5.6	0.40	621.25	619.49	620.15	622.60
C6	C6	0.00	0.00	0.00	0.43	15.40	4.33	1.89	2.31	12	38	0.42	0.28	0.42	2.9	0.20	619.49	619.33	622.60	622.00
C5	C5	0.23	0.39	0.09	0.52	15.60	4.31	2.25	2.31	12	88	0.42	0.40	0.42	2.9	0.50	619.33	618.96	622.00	622.00
C4	C4	0.31	0.54	0.17	0.69	16.10	4.26	2.93	3.54	15	89	0.30	0.21	0.30	2.9	0.50	618.96	618.69	622.00	622.00
C4	C3	0.86	0.36	0.31	0.99	16.60	4.21	4.19	5.36	18	62	0.26	0.16	0.26	3.0	0.30	618.69	618.53	622.00	622.87
C3	C2	0.00	0.00	0.00	0.99	16.90	4.18	4.19	5.36	18	39	0.26	0.16	0.26	3.0	0.20	618.53	618.43	622.87	617.03
C2	C1A	0.00	0.00	0.00	1.66	17.10	4.16	6.89	8.00	18	48	0.58	0.43	0.58	4.5	0.20	618.43	618.15	623.40	623.50
C1A	C1	0.00	0.00	0.00	1.66	17.30	4.14	6.89	8.00	18	8	0.58	0.43	0.58	4.5	0.00	618.15	618.10	623.50	623.50
A7	A6	0.24	0.65	0.16	0.16	15.00	4.38	0.68	2.57	12	37	0.52	0.04	0.52	3.3	0.20	619.39	619.19	622.00	622.80
A6	A5	0.08	0.35	0.03	0.18	15.20	4.35	0.80	2.57	12	87	0.52	0.05	0.52	3.3	0.40	619.19	618.74	622.80	623.00
A5	A4	0.09	0.35	0.03	0.21	15.60	4.31	0.92	2.57	12	39	0.52	0.07	0.52	3.3	0.20	618.74	618.54	623.00	623.00
A4	A3	0.06	0.35	0.02	0.24	15.80	4.29	1.01	2.54	12	49	0.51	0.08	0.51	3.2	0.30	618.54	618.29	623.00	623.00
A3	A2	0.14	0.58	0.08	0.55	16.10	4.26	2.33	3.53	12	11	0.98	0.43	0.98	4.5	0.00	618.29	618.18	623.00	623.38
A2	A1	0.00	0.00	0.00	0.55	16.10	4.26	2.33	4.70	18	39	0.20	0.05	0.20	4.7	0.20	618.18	618.10	623.38	623.50
A3.5	A3.4	0.05	0.30	0.02	0.02	15.00	4.38	0.07	2.36	12	51	0.44	0.00	0.44	3.0	0.30	620.36	620.14	623.00	623.00
A3.4	A3.3	0.07	0.44	0.03	0.05	15.30	4.34	0.21	2.22	12	44	0.39	0.00	0.39	2.8	0.30	620.14	619.96	623.00	623.25
A3.3	A3.2	0.07	0.55	0.04	0.09	15.60	4.31	0.38	2.28	12	113	0.41	0.01	0.41	2.9	0.70	619.96	619.30	623.25	623.25
A3.2	A3.1	0.15	0.34	0.05	0.14	16.30	4.24	0.59	2.31	12	36	0.42	0.03	0.42	2.9	0.20	619.30	619.35	623.25	623.00
A3.1	A3	0.17	0.52	0.09	0.23	16.50	4.22	0.96	2.96	12	153	0.69	0.07	0.69	3.8	0.70	619.35	618.29	623.00	623.00
C2.5	C2.1	0.08	0.68	0.06	0.06	15.00	4.38	0.25	2.08	12	159	0.34	0.00	0.34	2.6	1.00	619.65	619.11	622.50	623.25
C2.1	C2	0.07	0.95	0.07	0.66	16.00	4.27	2.83	2.98	12	97	0.70	0.63	0.70	3.8	0.40	619.11	618.43	623.25	623.40
C2.4	C2.2	0.12	0.95	0.11	0.11	15.00	4.38	0.48	2.08	12	79	0.34	0.02	0.34	2.6	0.50	619.75	619.48	622.36	623.25
C2.2	C2	0.14	0.95	0.13	0.54	15.50	4.32	2.32	2.76	12	61	0.60	0.42	0.60	3.5	0.30	619.48	619.11	623.25	623.25
C2.3	C2.2	0.31	0.95	0.29	0.29	15.00	4.38	1.29	2.08	12	79	0.34	0.13	0.34	2.6	0.50	619.75	619.48	622.38	623.25
B3	B2	0.00	0.00	0.00	0.00	15.00	4.38	0.00	5.04	18	117	0.23	0.00	0.23	2.9	0.70	618.02	617.75	623.50	623.59
B2	B1	0.00	0.00	0.00	0.00	15.70	4.30	0.00	4.46	18	33	0.18	0.00	0.18	2.5	0.20	617.75	617.69	623.59	623.15

STRUCTURE	UP	DN	AREA	C	EQUIV.	TOTAL	T	I	Q	CAPACITY	DIAM.	LENGTH	SLOPE	MIN HG	HG	VELOCITY	TIME	H.G.L. ELEV.	GROUND ELEV.	INVERT ELEV.
STREAM	STREAM	AREA (ACRES)	RUNOFF COEF.	AREA (C x A)	AREA (SUM C x A)	TIME (MIN.)	INTENSITY (IN / HR)	FLOW (C.F.S.)	PIPE (C.F.S.)	OF PIPE (C.F.S.)	(IN.)	(FT.)	(%)	(%)	(%)	(FT / SEC)	FLOW (MIN.)	UPPER END	LOWER END	UPPER END
<b>DETENTION OUTLET DESIGN</b>																				
B3	B2	0.00	0.00	0.00	0.00	15.00	4.38	0.00	5.04	18	117	0.23	0.00	0.23	2.9	0.70	618.02	617.75	623.50	623.59
B2	B1	0.00	0.00	0.00	0.00	15.70	4.30	0.00	4.46	18	33	0.18	0.00	0.18	2.5	0.20	617.75	617.69	623.59	623.15

STORM STRUCTURE SCHEDULE						
STR. NO.	TYPE	RIM ELEV.	INV. SIZE	INV. DIR.	INVERT	IN/OUT
A1	4' DIA MANHOLE	623.50	18"	N	616.60'	In
A2	TREATMENT STRUCTURE	623.38	12"	N	617.08'	In
A3	4' DIA FIELD CATCH BASIN	622.80	12"	E	617.19'	In
A3.1	4' DIA FIELD CATCH BASIN	622.80	12"	W	618.25'	In
A3.2	4' DIA FIELD CATCH BASIN	623.25	12"	E	618.40'	In
A3.3	4' DIA FIELD CATCH BASIN	623.25	12"	SW	618.86'	In
A3.4	4' DIA FIELD CATCH BASIN	623.00	12"	SW	618.03'	In
A3.5	4' DIA FIELD CATCH BASIN	623.00	12"	NE	619.26'	Out
A4	4' DIA FIELD CATCH BASIN	623.00	12"	E	617.44'	In
A5	4' DIA FIELD CATCH BASIN	623.00	12"	E	617.64'	Out
A6	4' DIA FIELD CATCH BASIN	622.80	12"	E	618.09'	In
A7	4' DIA FIELD CATCH BASIN	622.00	12"	W	618.28'	Out
<b>STORM STRUCTURE SCHEDULE</b>						
STR. NO.	TYPE	RIM ELEV.	INV. SIZE	INV. DIR.	INVERT	IN/OUT
C2.1	4' DIA CATCH BASIN	623.25	12"	NE	618.01'	In
C2.2	4' DIA CATCH BASIN	623.25	12"	E	618.38'	In
C2.3	4' DIA CATCH BASIN	622.38	12"	W	618.64'	Out
C2.4	4' DIA CATCH BASIN	622.36	12"	W	618.65'	Out
C2.5	4' DIA FIELD CATCH BASIN	622.50	12"	SW	618.55'	Out

STORM STRUCTURE SCHEDULE						
STR. NO.	TYPE	RIM ELEV.	INV. SIZE	INV. DIR.	INVERT	IN/OUT
B1	4' DIA MANHOLE	623.15	18"	W	616.19'	In
B2	OUTLET CONTROL STRUCTURE	623.59	18"	E	616.25'	In
B3	4' DIA MANHOLE	623.50	18"	E	616.52'	Out
<b>STORM STRUCTURE SCHEDULE</b>						
STR. NO.	TYPE	RIM ELEV.	INV. SIZE	INV. DIR.	INVERT	IN/OUT
C1	4' DIA MANHOLE	623.50	18"	S	616.60'	In
C1A	TREATMENT STRUCTURE	623.50	18"	N	616.65'	Out
C2	4' DIA MANHOLE	623.40	18"	N	616.93'	In
C3	4' DIA MANHOLE	622.87	18"	SW	617.03'	In
C4	4' DIA FIELD CATCH BASIN	622.00	15"	W	617.39'	In
C5	4' DIA FIELD CATCH BASIN	622.00	12"	W	617.66'	In
C6	4' DIA FIELD CATCH BASIN	622.00	12"	N	618.23'	In
C7	4' DIA MANHOLE	622.80	12"	S	618.39'	Out
C8	END SECTION	620.15	12"	E	620.15'	Out

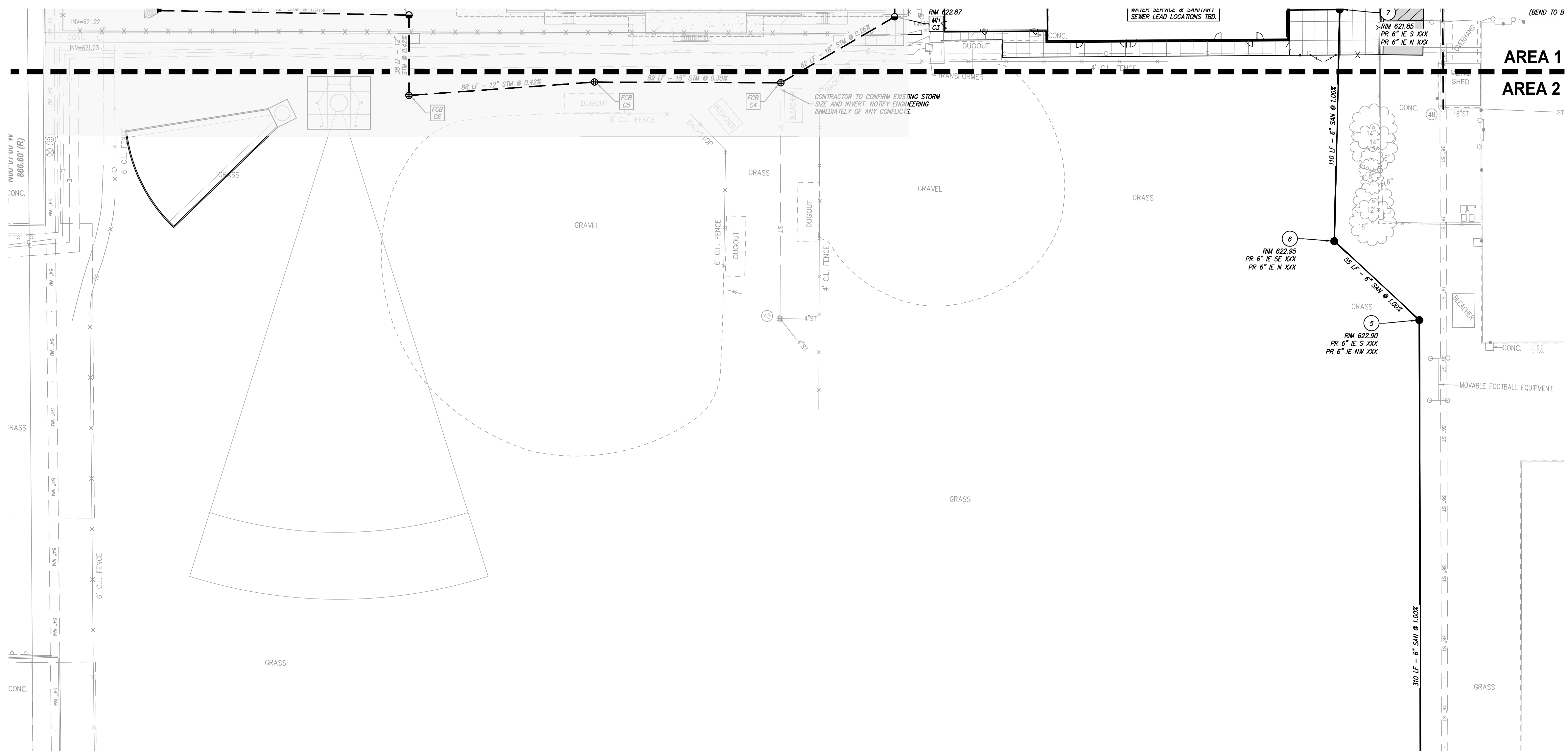


Bidding and Permits: 20 March 2023  
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Utility Plan - Area 1  
Crestwood School District  
Crestwood High School  
Site Improvements





### LEGEND

- PROPOSED WATERMAIN
- PROPOSED SANITARY
- PROPOSED STORM SEWER
- PROPOSED GAS MAIN
- PROPOSED ELECTRIC
- PROPOSED HYDRANT
- PROPOSED GATE VALVE & WELL (GVW)
- PROPOSED TAPPING SLEEVE, VALVE & WELL (TSVM)
- PROPOSED SAN MANHOLE (SAN)
- PROPOSED STORM MANHOLE (SM)
- PROPOSED CATCH BASIN (CB)
- PROPOSED INLET (INL)
- PROPOSED END SECTION (ES)
- PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER

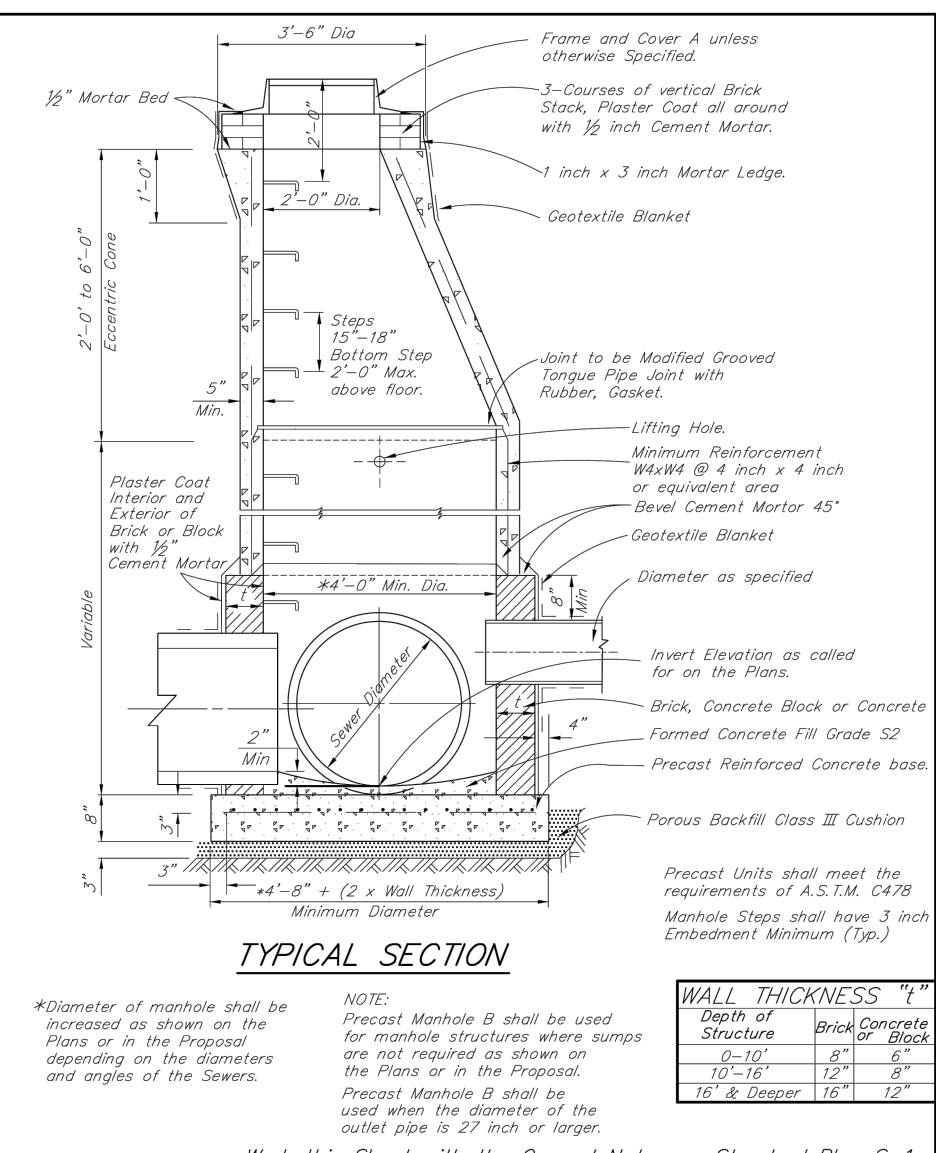
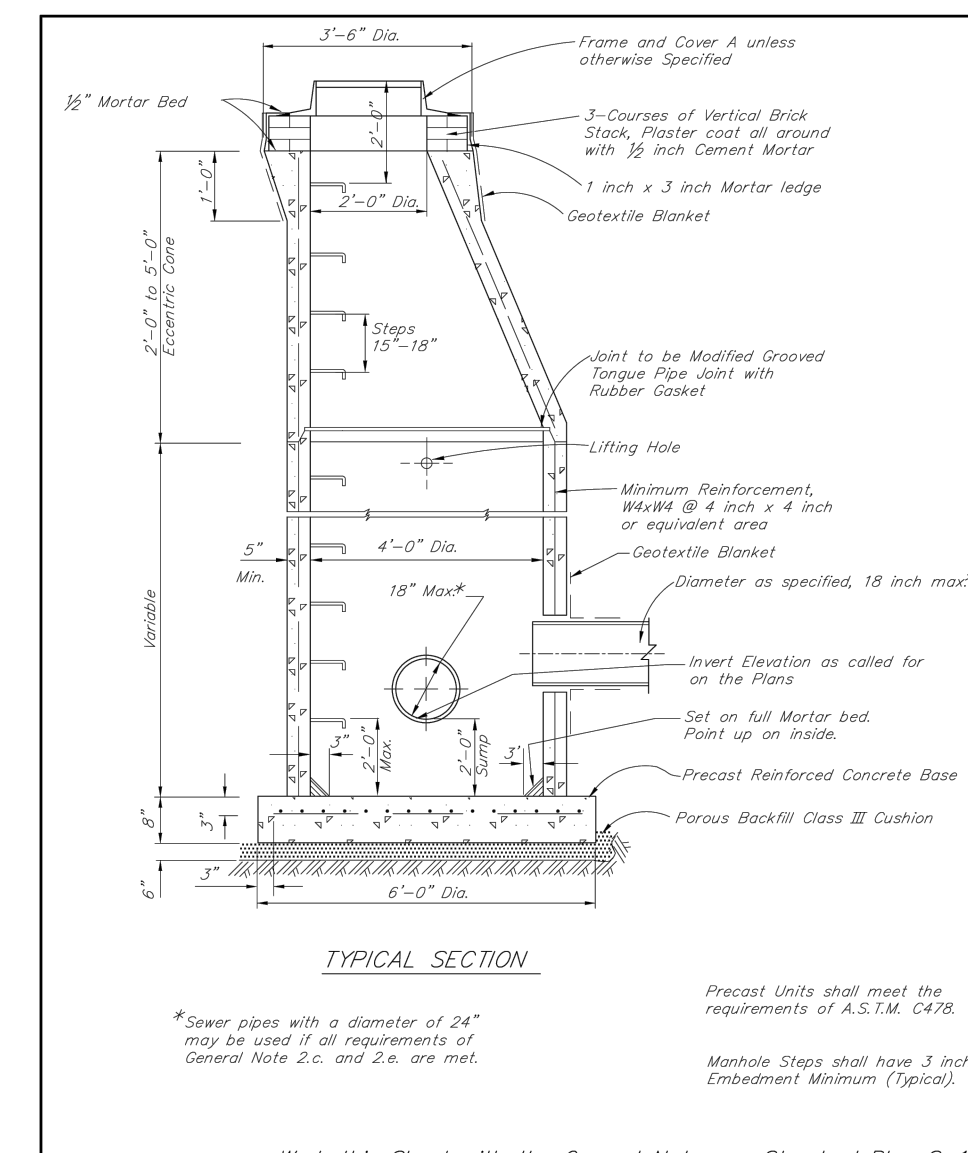
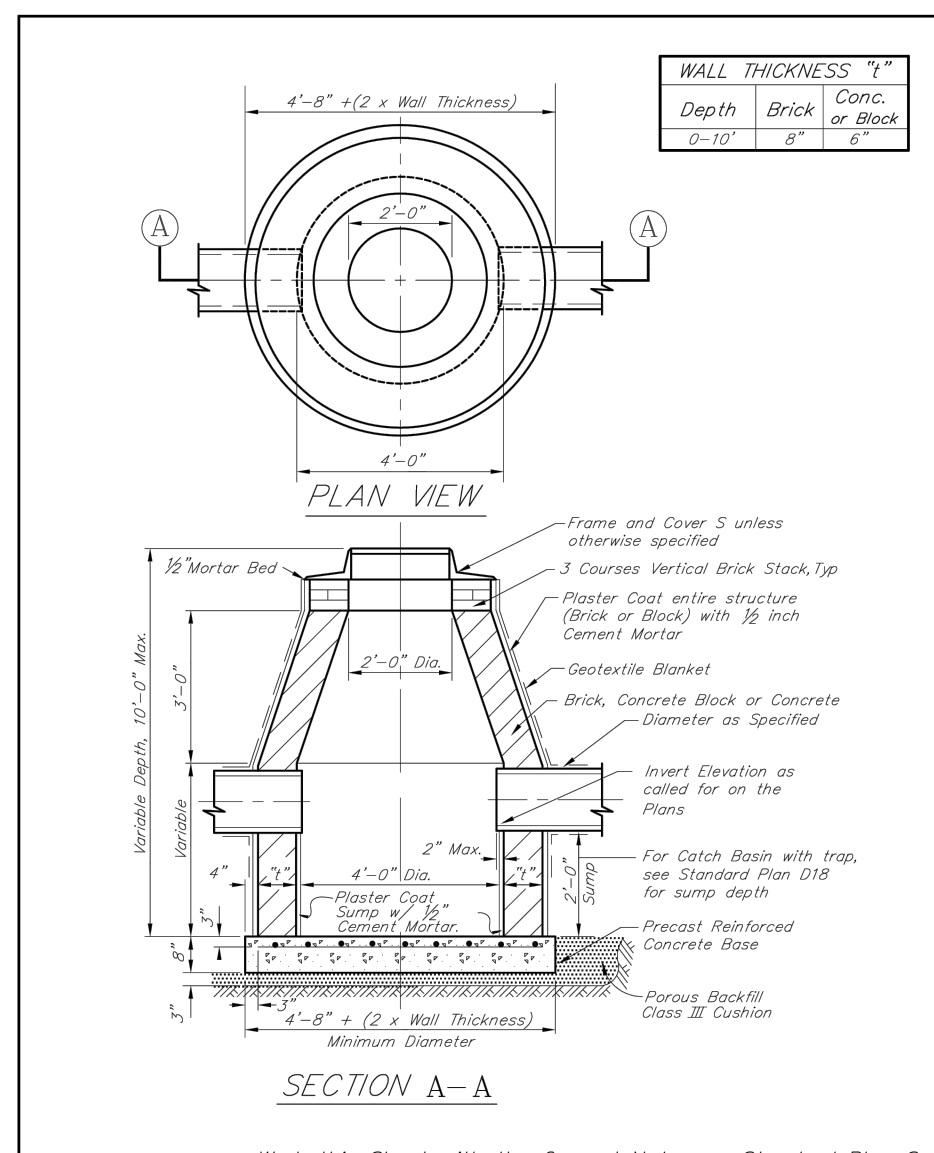
- STANDARD BITUMINOUS PAVEMENT
- HEAVY-DUTY BITUMINOUS PAVEMENT
- DEEP-STRENGTH BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- MILL PAVEMENT

- UTILITY CROSSING (SEE DATA TABLE)
- STRUCT. TYPE
- STRUCT. NO.

- STORM SEWER STRUCTURE
- SANITARY SEWER STRUCTURE
- WATERMAIN STRUCTURE

- All materials and workmanship shall be in accordance with the Wayne County Specifications which are defined as the 2003 Michigan Department of Transportation (MDOT) Standard Specifications for Construction as modified by Wayne County Special Provisions.
- The Contractor may construct manholes, catch basins and inlets, as detailed, with precast reinforced concrete units provided the following conditions are satisfied:
  - All precast sections shall be made in accordance with ASTM C-478 except that:
    - The minimum wall thickness shall be 5 inches.
    - The thickness of base and top slabs shall be as detailed on the Standard Plans.
  - The maximum diameter of sewer outlet in any precast unit shall be 18 inches, except for inlets which shall have a maximum outlet diameter of 12 inches.
  - No openings shall be made in precast units which would leave less than 24 inches of total undisturbed precast manhole wall or would remove more than 30% of the circumference along any horizontal plane. A minimum of 6 inches of undisturbed manhole is required between any two openings. Openings may be constructed by casting, removal of green concrete, or by drilling the openings in cured concrete.
  - Openings for sewer pipe shall be cut or precast with a diameter 3 inches larger than the outside diameter of the pipe. The opening around the outside of the pipe shall be closed using brick masonry.
  - Structures for sewers larger than 18 inches or those not meeting the opening requirements shall be built of brick or block to a minimum of 8 inches above the top of sewer, with precast units being used above this point. Where the precast units rest on the block or brick, the groove in the precast unit will be filled with mortar.

- Circumstances encountered during construction may preclude the use of precast unit structures, as determined by the Engineer. If the contractor elects to use precast unit structures and field changes prohibit their use, no compensation will be made to the contractor for having these units manufactured, supplied, to the project, and not utilized.
- Special precast units for use on large diameter sewers must have the approval of the Engineer.
- All vertical holes in concrete block structure wall shall be completely filled with mortar. All vertical wall joints shall be buttered.
- The first pipe length entering or leaving any structure shall be temporarily supported by suitable means until the structure is completed and backfilled.
- A poured Grade S1 concrete base without steel reinforcement, may be substituted for a precast base as approved by the Engineer. A porous backfill cushion will not be required under the poured base, unless the Contractor has excavated below the required elevation, at which time the Engineer will decide as to the merits of increasing the thickness of the concrete base or the use of a porous backfill cushion.
- The conical section of brick or block manholes, catch basins or inlets, shall be shrouded with a geotextile blanket from the top down to 1 foot below the conical section. Precast structures shall be shrouded with the geotextile blanket to a point 1 foot below the stack. Enough geotextile material will be left on the top to roll over the brick stack and under the casting. Also, wrap inlet and outlet pipes at connection to the structures with a geotextile blanket, minimum 1 foot each direction. The geotextile blanket shall meet the requirements of Subsection 910.03.A in the 2003 MDOT Standard Specifications for Construction.
- A 10 foot length of 6 inch Underdrain in Sewer Trench will be required at proposed drainage structure that do not have longer lengths of underdrain connected to them (see Standard Plan S-14). The cost of these 10 feet lengths of underdrain with end caps shall be included in the cost of the drainage structure.
- Steps are required for all structures over 10 feet in depth. Steps shall be of an approved design, made of cast iron, aluminum, or plastic coated steel. Rungs shall be a minimum of 10 inches clear length and designed to prevent the foot from slipping off the end. The minimum horizontal load shall be 405 lbf. The minimum vertical load shall be 810 lbf.



REVISION DATE: 08/20/21

WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES  
ENGINEERING DIVISION/PERMIT OFFICE  
DIRECTOR OF ENGINEERING

SCALE: NOT TO SCALE  
S-1

SHEET: 1 OF 2

GENERAL NOTES

REVISION DATE: 08/20/21

WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES  
ENGINEERING DIVISION/PERMIT OFFICE  
DIRECTOR OF ENGINEERING

SCALE: NOT TO SCALE  
S-1

SHEET: 2 OF 2

GENERAL NOTES

REVISION DATE: 08/20/21

WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES  
ENGINEERING DIVISION/PERMIT OFFICE  
DIRECTOR OF ENGINEERING

SCALE: NOT TO SCALE  
S-6

SHEET: 1 OF 1

CATCH BASIN A

REVISION DATE: 08/20/21

WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES  
ENGINEERING DIVISION/PERMIT OFFICE  
DIRECTOR OF ENGINEERING

SCALE: NOT TO SCALE  
S-B

SHEET: 1 OF 1

PRECAST MANHOLE A

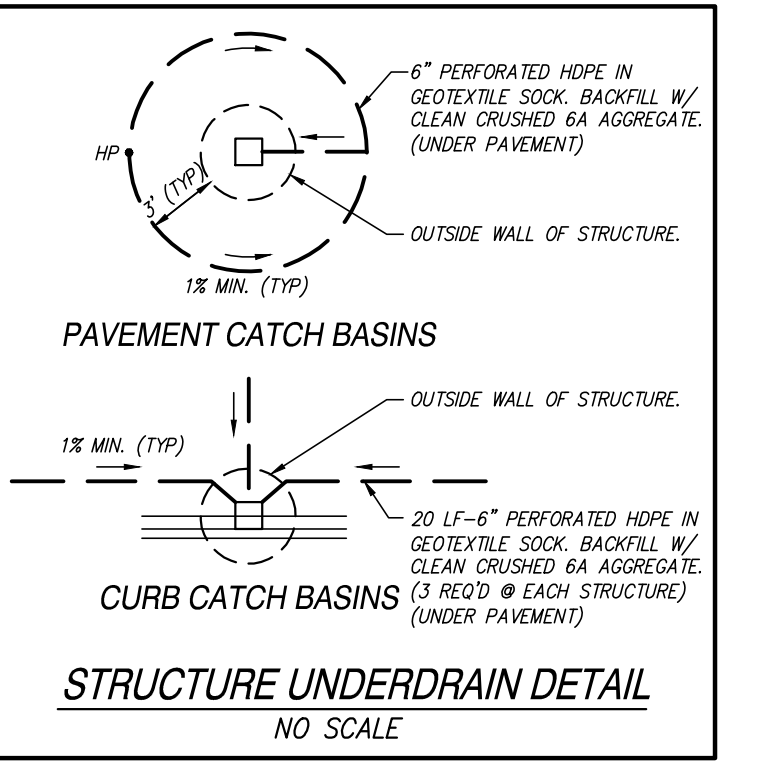
REVISION DATE: 08/20/21

WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES  
ENGINEERING DIVISION/PERMIT OFFICE  
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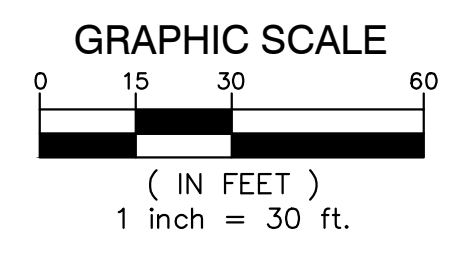
SCALE: NOT TO SCALE  
S-9

SHEET: 1 OF 1

PRECAST MANHOLE B

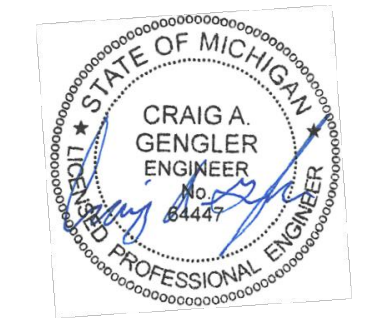


STORM STRUCTURE SCHEDULE						
STR. NO.	TYPE	RIM ELEV.	INV. SIZE	INV. DIR.	INVERT	IN/OUT
C1	4' DIA MANHOLE	623.50	18"	S	616.60'	In
C1A	TREATMENT STRUCTURE	623.50	18"	S	616.65'	In
			18"	N	616.65'	Out
C2	4' DIA MANHOLE	623.40	18"	S	616.93'	In
			18"	N	616.93'	Out
C3	4' DIA MANHOLE	622.87	18"	SW	617.03'	In
			18"	N	617.03'	Out
C4	4' DIA FIELD CATCH BASIN	622.00	15"	W	617.39'	In
			18"	NE	617.19'	Out
C5	4' DIA FIELD CATCH BASIN	622.00	12"	E	617.86'	In
			15"	E	617.66'	Out
C6	4' DIA FIELD CATCH BASIN	622.00	12"	N	618.23'	In
			12"	E	618.23'	Out
C7	4' DIA MANHOLE	622.60	12"	S	618.39'	In
			12"	W	618.39'	Out
C8	END SECTION	620.15	12"	E	620.15'	Out



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Utility Plan - Area 2

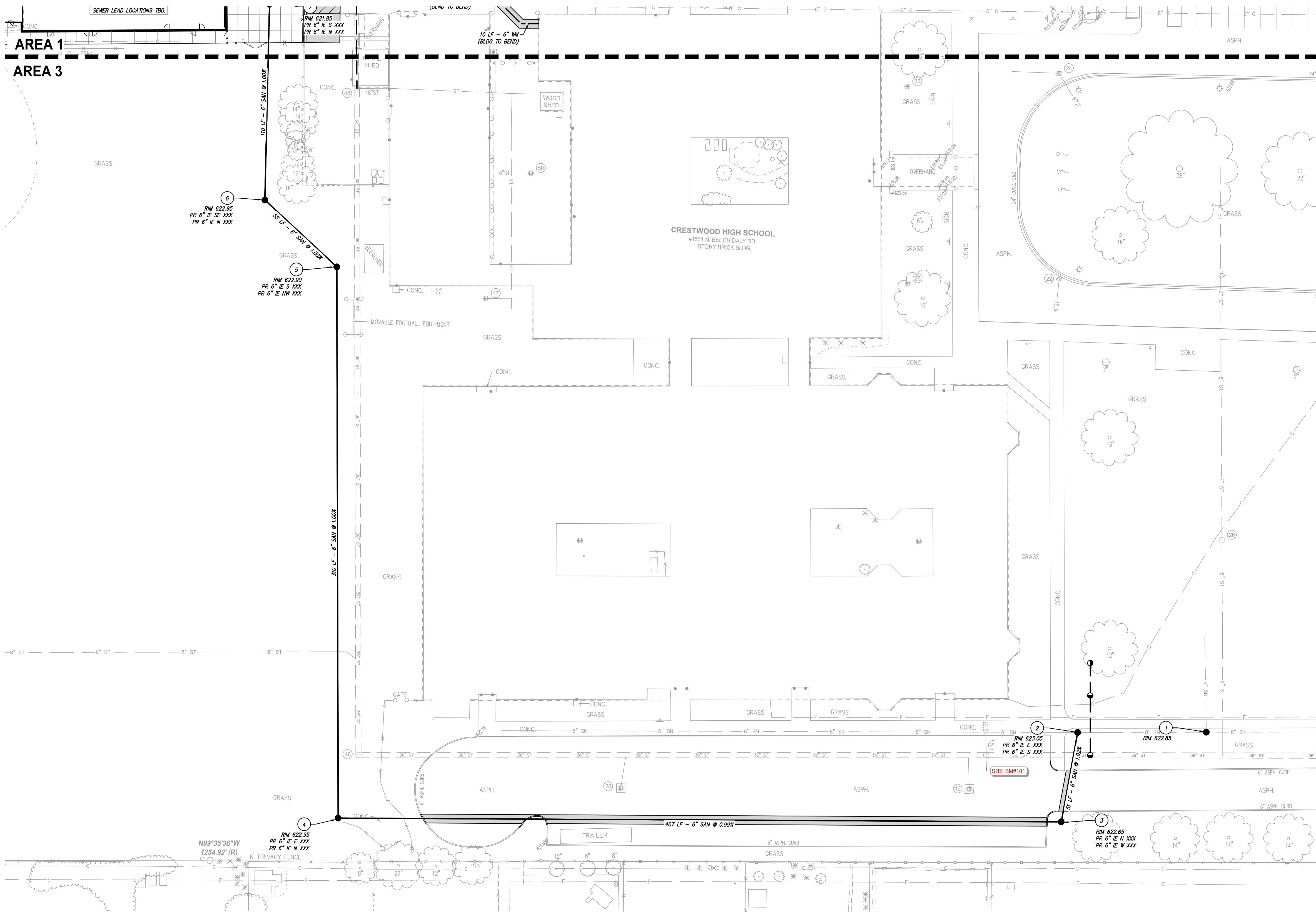
**EHRESMAN ARCHITECTS**  
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Crestwood School District  
Crestwood High School  
Site Improvements

Project No. 2522 (SDA NP22067)

C3.2

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**LEGEND**

- PROPOSED WATERMAIN
- PROPOSED SANITARY
- PROPOSED STORM SEWER
- PROPOSED GAS MAIN
- PROPOSED ELECTRIC
- PROPOSED HYDRANT
- PROPOSED GATE VALVE & WELL (GW)
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- PROPOSED SAN MANHOLE (SAN)
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STANDARD BITUMINOUS PAVEMENT  
 HEAVY-DUTY BITUMINOUS PAVEMENT  
 DEEP-STRENGTH BITUMINOUS PAVEMENT  
 CONCRETE PAVEMENT  
 CONCRETE SIDEWALK  
 MILL PAVEMENT

UTILITY CROSSING (SEE DATA TABLE)  
 STORM SEWER STRUCTURE  
 SANITARY SEWER STRUCTURE  
 WATERMAIN STRUCTURE

STRUCT. TYPE  
 STRUCT. NO.



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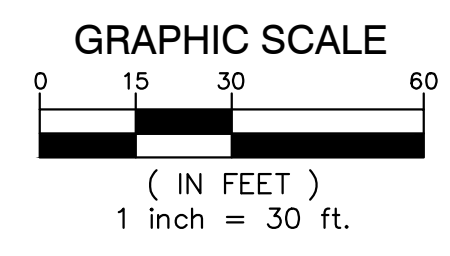
Utility Plan – Area 3

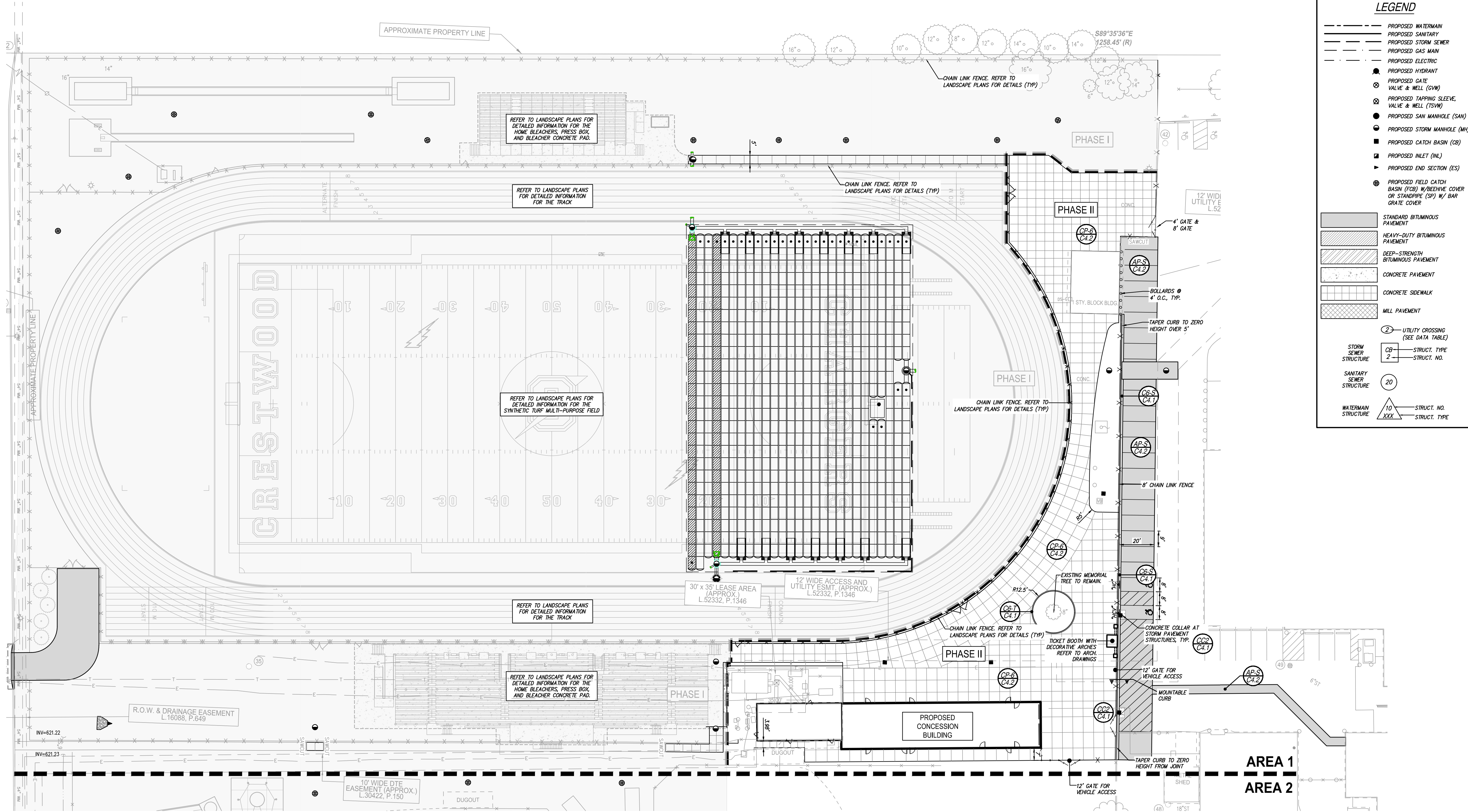


Crestwood School District  
 Crestwood High School  
 Site Improvements

Project No. 2522 (SDA NP22067)

C3.3

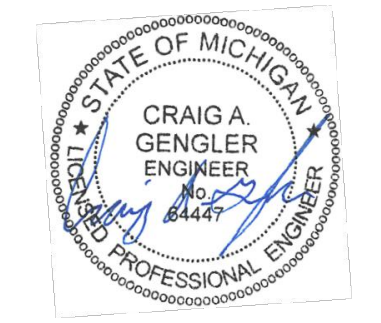




LEGEND	
---	PROPOSED WATERMAIN
---	PROPOSED SANITARY
---	PROPOSED STORM SEWER
---	PROPOSED GAS MAIN
---	PROPOSED ELECTRIC
●	PROPOSED HYDRANT
○	PROPOSED GATE
○	VALVE & WELL (GW)
○	PROPOSED TAPPING SLEEVE, VALVE & WELL (TSW)
○	PROPOSED SAN MANHOLE (SAN)
○	PROPOSED STORM MANHOLE (MH)
■	PROPOSED CATCH BASIN (CB)
■	PROPOSED INLET (IN)
▶	PROPOSED END SECTION (ES)
○	PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER
[Pattern]	STANDARD BITUMINOUS PAVEMENT
[Pattern]	HEAVY-DUTY BITUMINOUS PAVEMENT
[Pattern]	DEEP-STRENGTH BITUMINOUS PAVEMENT
[Pattern]	CONCRETE PAVEMENT
[Pattern]	CONCRETE SIDEWALK
[Pattern]	MILL PAVEMENT
2	UTILITY CROSSING (SEE DATA TABLE)
□	STORM SEWER STRUCTURE
□	SANITARY SEWER STRUCTURE
○	WATERMAIN STRUCTURE
○	STRUCT. TYPE
2	STRUCT. NO.
○	STRUCT. TYPE
10	STRUCT. NO.
XXX	STRUCT. TYPE



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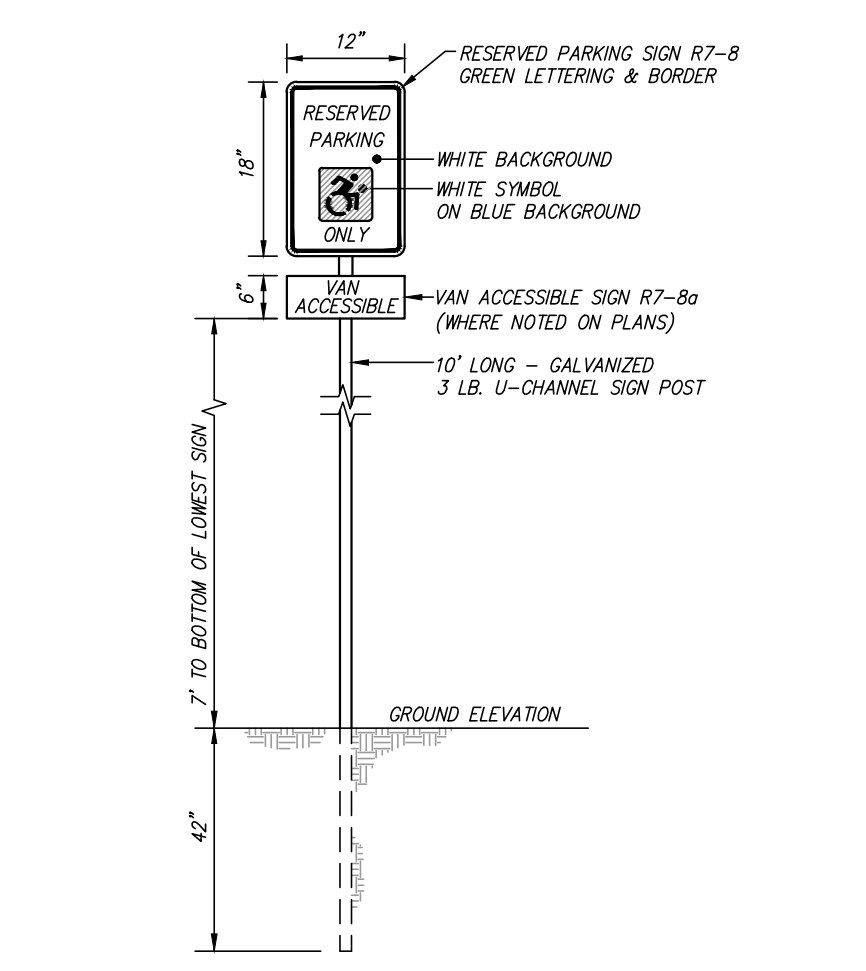


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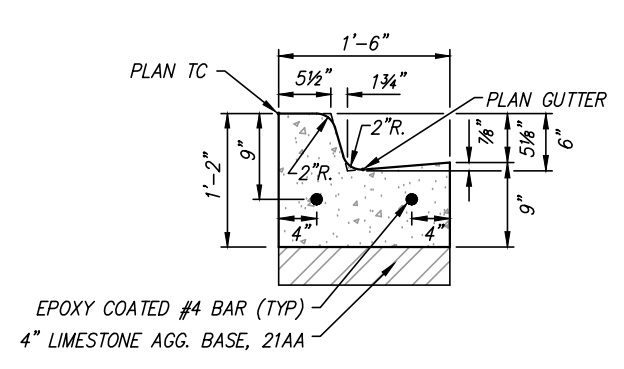
Paving and Layout Plan - Area 1  
**EHRESMAN ARCHITECTS**  
 ehresmanarchitects.com

Crestwood School District  
 Crestwood High School  
 Site Improvements

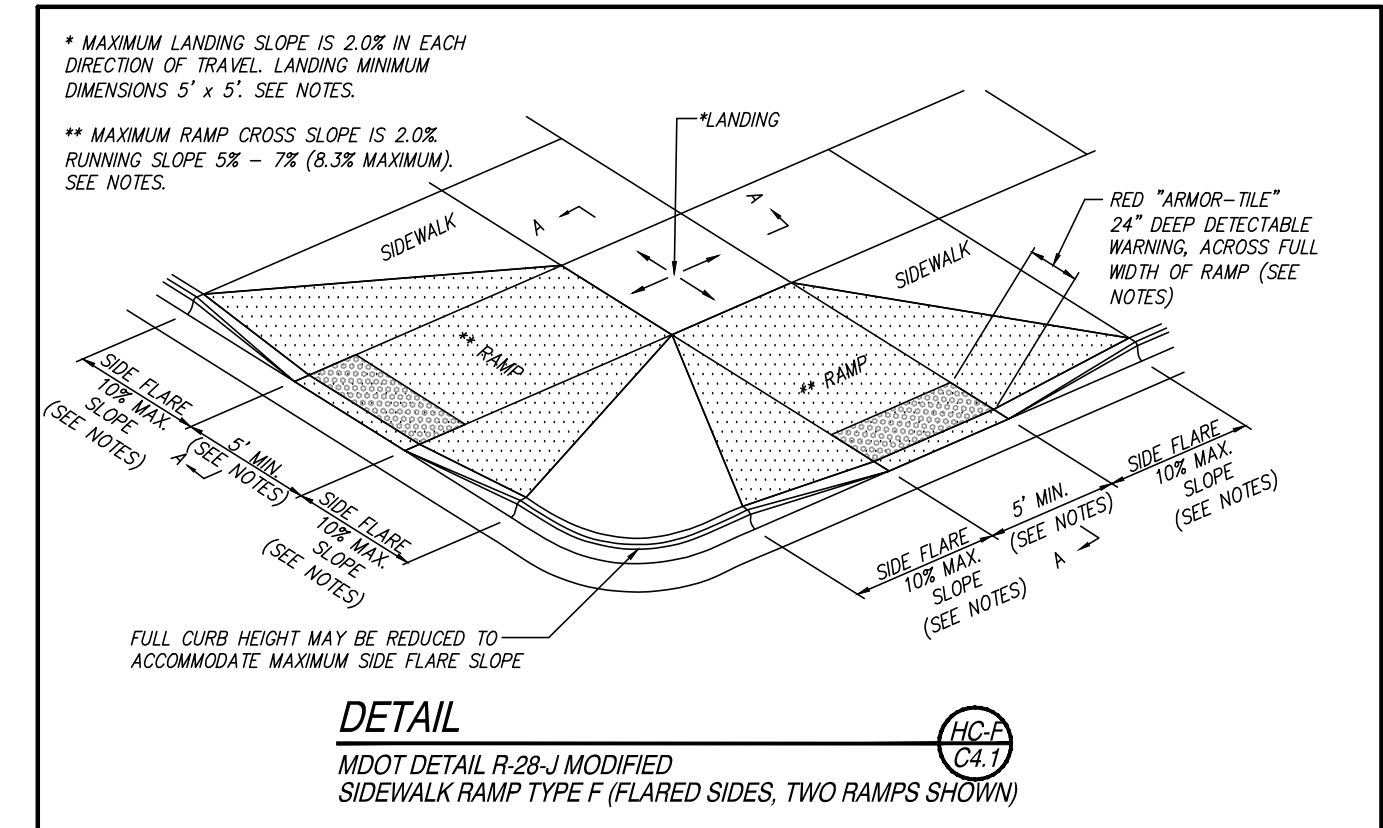
Project No. 2522 (SDA NP22067) C4.1



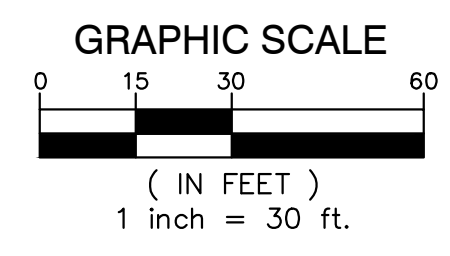
DETAIL RESERVED PARKING SIGN DETAIL BS-1 C4.1

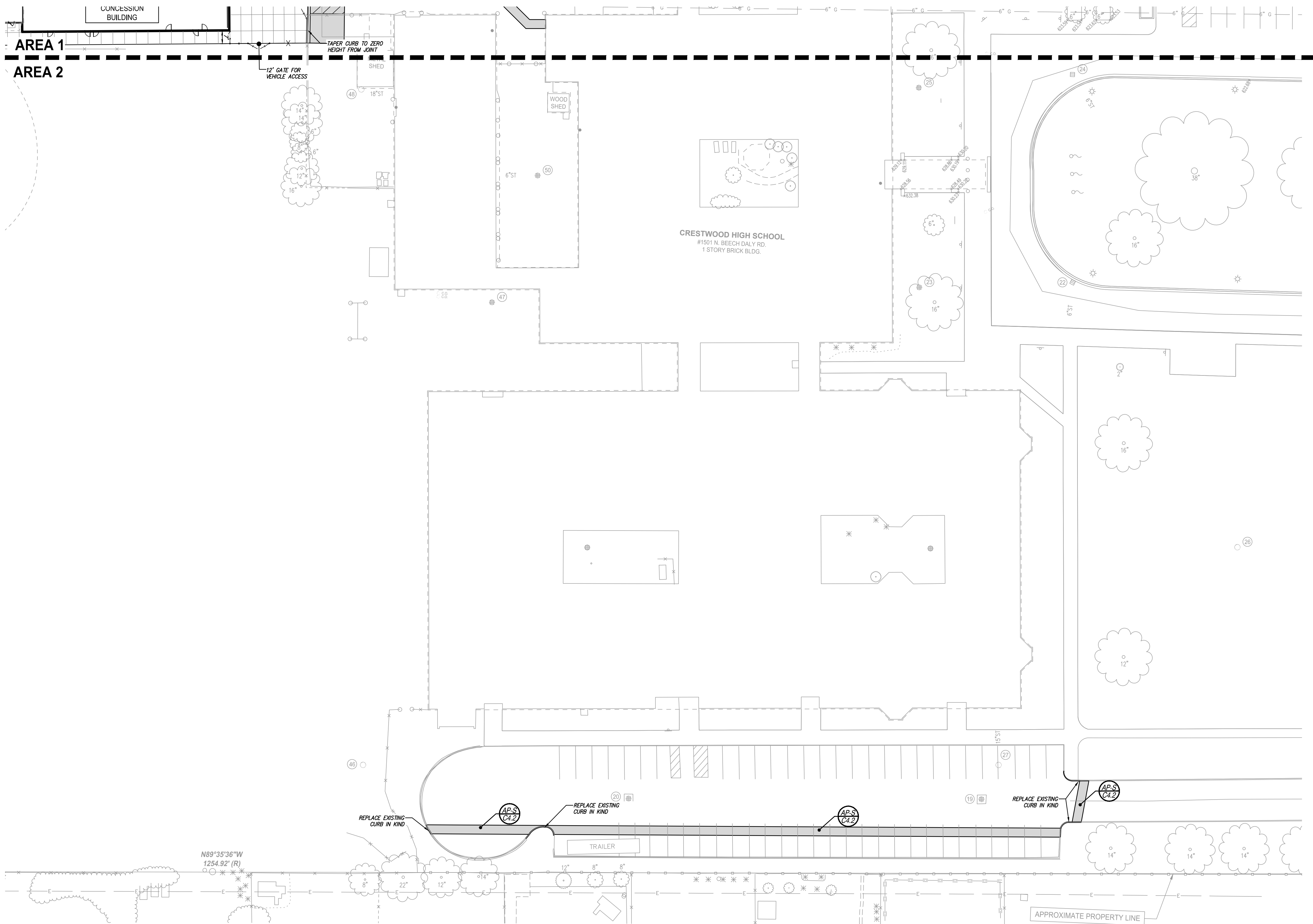


DETAIL 6" CURB & GUTTER STANDARD PAN (MDOT TYPE F1) DS-2 C4.1



DETAIL MDOT DETAIL R-28-J MODIFIED SIDEWALK RAMP TYPE F (FLARED SIDES, TWO RAMP SHOWN) HC-C1 C4.1



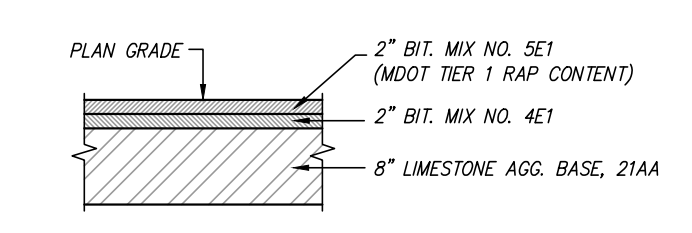


**LEGEND**

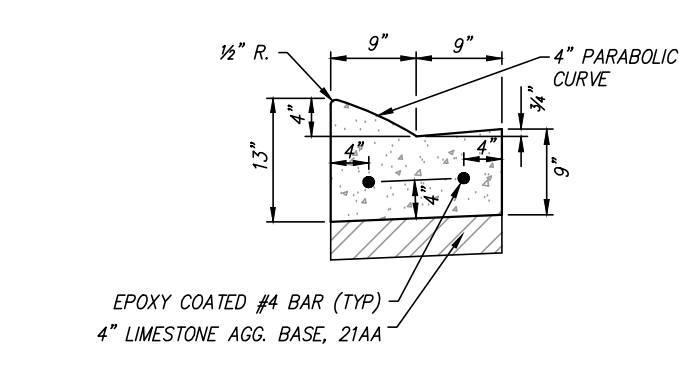
- PROPOSED WATERMAIN
- PROPOSED SANITARY
- PROPOSED STORM SEWER
- PROPOSED GAS MAIN
- PROPOSED ELECTRIC
- PROPOSED HYDRANT
- ⊙ PROPOSED GATE VALVE & WELL (GW)
- ⊙ PROPOSED TAPPING SLEEVE VALVE & WELL (TSVM)
- PROPOSED SAN MANHOLE (SAN)
- ⊙ PROPOSED STORM MANHOLE (SM)
- PROPOSED CATCH BASIN (CB)
- PROPOSED INLET (INL)
- ▶ PROPOSED END SECTION (ES)
- ⊙ PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER

- ▨ STANDARD BITUMINOUS PAVEMENT
- ▨ HEAVY-DUTY BITUMINOUS PAVEMENT
- ▨ DEEP-STRENGTH BITUMINOUS PAVEMENT
- ▨ CONCRETE PAVEMENT
- ▨ CONCRETE SIDEWALK
- ▨ MILL PAVEMENT

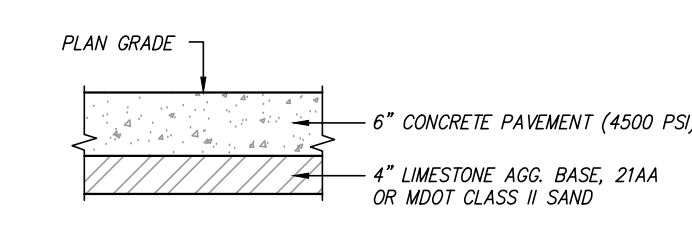
- ⊙ UTILITY CROSSING (SEE DATA TABLE)
- CB-2 STRUCT. TYPE  
2 STRUCT. NO.
- 20 SANITARY SEWER STRUCTURE
- 10/XXX WATERMAIN STRUCTURE  
10 STRUCT. NO.  
XXX STRUCT. TYPE



**DETAIL**  
STANDARD BITUMINOUS PAVEMENT



**DETAIL**  
4\"/>



**DETAIL**  
6\"/>



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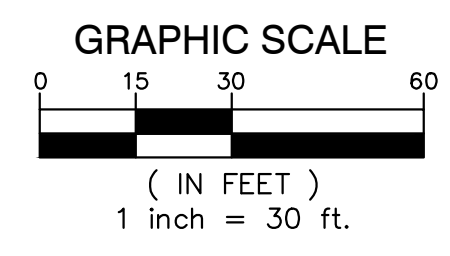
Paving and Layout Plan – Area 2

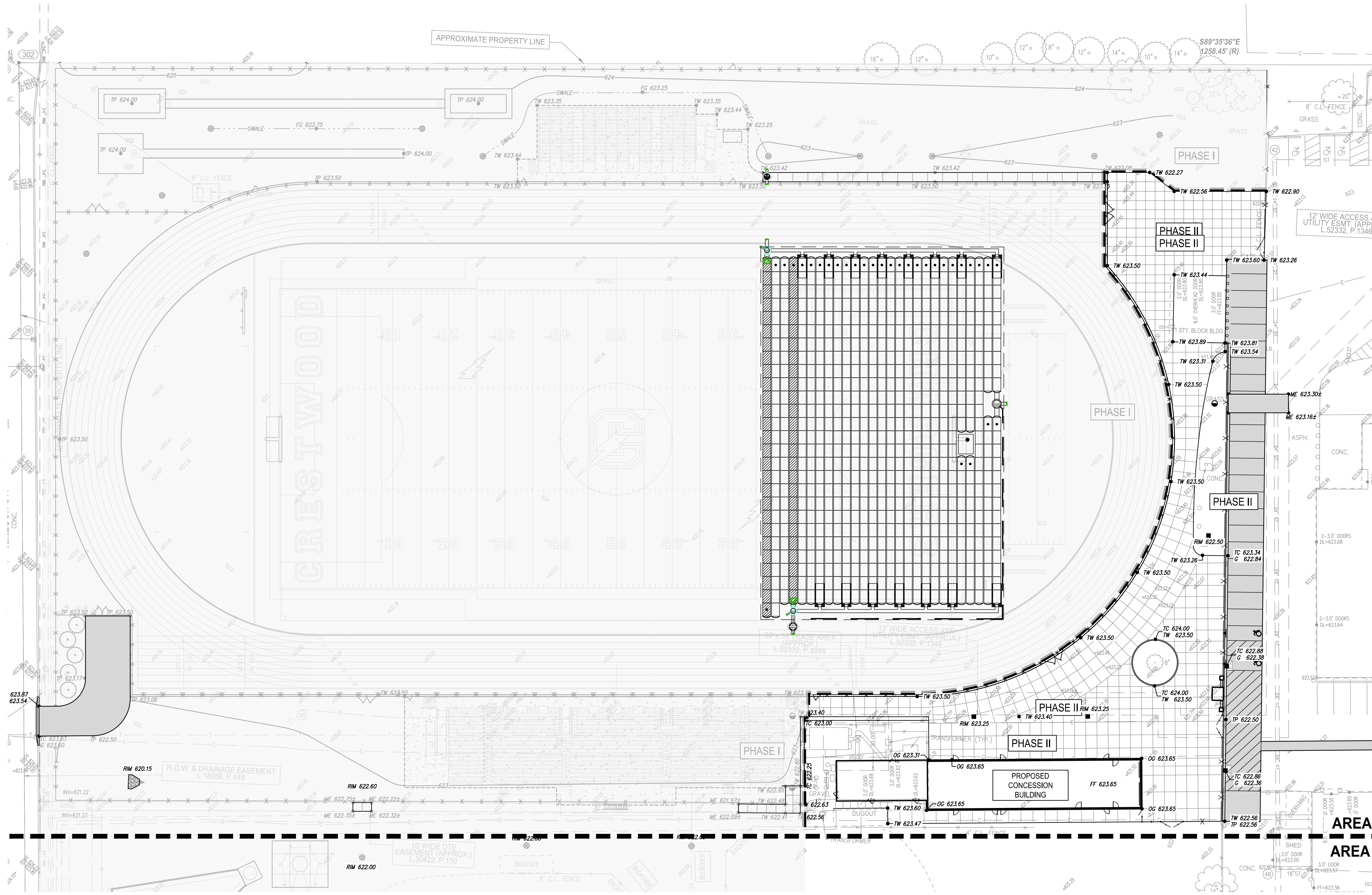


Crestwood School District  
Crestwood High School  
Site Improvements

Project No. 2522 (SDA NP22067)

C4.2





**LEGEND**

---	PROPOSED WATERMAIN
---	PROPOSED SANITARY
---	PROPOSED STORM SEWER
---	PROPOSED GAS MAIN
---	PROPOSED ELECTRIC
●	PROPOSED HYDRANT
○	PROPOSED GATE VALVE & WELL (GW)
○	PROPOSED TAPPING SLEEVE VALVE & WELL (TSVM)
●	PROPOSED SAN MANHOLE (SAN)
○	PROPOSED STORM MANHOLE (SM)
■	PROPOSED CATCH BASIN (CB)
■	PROPOSED INLET (INL)
▶	PROPOSED END SECTION (ES)
○	PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER
▨	STANDARD BITUMINOUS PAVEMENT
▨	HEAVY-DUTY BITUMINOUS PAVEMENT
▨	DEEP-STRENGTH BITUMINOUS PAVEMENT
▨	CONCRETE PAVEMENT
▨	CONCRETE SIDEWALK
▨	MILL PAVEMENT
○	UTILITY CROSSING (SEE DATA TABLE)
○	STORM SEWER STRUCTURE
○	SANITARY SEWER STRUCTURE
○	WATERMAIN STRUCTURE
○	STRUCT. NO.
○	STRUCT. TYPE

**GRADING LEGEND**

---	EXISTING ELEVATION
●	PROPOSED TOP OF CURB ELEVATION
○	PROPOSED GUTTER ELEVATION
○	OUTSIDE GRADE ELEVATION
---	EXISTING CONTOURS
---	PROPOSED CONTOURS
●	TOP OF PAVEMENT ELEVATION
●	TOP OF WALK ELEVATION
●	FINISH GRADE ELEVATION
●	TOP OF WALL ELEVATION
●	MATCH EXISTING ELEVATION
→	FLOW ARROW

- GRADING NOTES**
- CONTRACTOR TO PLACE ALL NEW PAVEMENT TO THE GRADES INDICATED OR MATCH ORIGINAL GRADES IF NEW GRADES ARE NOT SHOWN. CONTRACTOR SHALL CONFIRM MINIMUM 1% PAVEMENT SLOPES ARE ATTAINED IN ALL AREAS.
  - PROPOSED GRADES MAY BE BASED ON AN INTERPOLATION OF DATA SHOWN ON THE TOPOGRAPHIC SURVEY. THIS INTERPOLATED DATA IS APPROXIMATE AND COULD DIFFER SLIGHTLY BASED ON THE ACCURACY OF THE SURVEY. CONTRACTOR SHALL CONFIRM THAT THE PROPOSED GRADES SHOWN ON THIS PLAN WILL NOT CREATE A STANDING WATER CONDITION (I.E. A LOW SPOT OR PAVEMENT SLOPES LESS THAN 1%) OR AN UNSAFE CONDITION WITH SLOPES IN EXCESS OF SIX PERCENT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF THEY BELIEVE THAT ONE OF THESE SITUATIONS WILL OCCUR BASED ON THE PROPOSED GRADES.
  - ALL PAVEMENT PLACED WITHIN HANDICAP PARKING AREAS (STALLS AND ACCESS ARLES) SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION, INCLUDING MEASURED DIAGONALLY ACROSS THE AREAS. CONTRACTOR SHALL ADJUST SLOPES AS NECESSARY TO PROVIDE ADA COMPLIANT SLOPES AS WELL AS PROVIDING RE-GRADED TRANSITION SLOPES OUTSIDE OF THE HANDICAP PARKING AREAS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF TRANSITION ZONES WILL EXCEED MAXIMUM SIX PERCENT. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE PATTERNS WITH ALL NECESSARY PAVEMENT RE-GRADES.
  - ALL HANDICAP RAMPS AND ADA ACCESSIBLE ROUTES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF MDT DETAIL R-28 "SIDEWALK RAMP AND DETECTABLE WARNING DETAILS".
  - CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORM WATER RUNOFF DURING CONSTRUCTION OPERATIONS. OF PARTICULAR CONCERN WILL BE THE TIME PERIOD AFTER THE SITE HAS BEEN STRIPPED AND NOT YET RESTORED, BUILT UPON, OR PAVED. CONTRACTOR MUST INSTALL OR CONSTRUCT APPROPRIATE TEMPORARY MEASURES TO PROTECT ADJACENT PROPERTIES.

**RESTORATION NOTE**

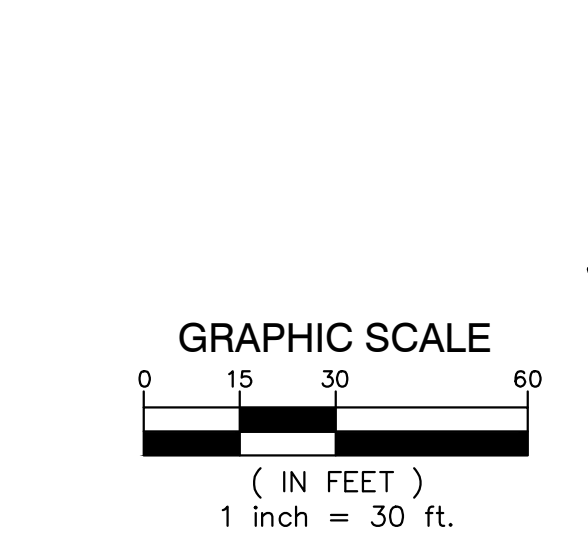
RESTORE ALL NON-PAVED AREAS WITH 3" OF CLEAN TOPSOIL AND SEED MIX (30% KENTUCKY BLUEGRASS, 20% PERENNIAL RYEGRASS, 50% CREEPING BIRD RICE). PLACE MULCH IN ALL SEEDING AREAS. ON SLOPES IN EXCESS OF 10% HORIZONTAL TO 1 VERTICAL PLACE NORTH AMERICAN GREEN JISSO MULCH BLANKET IMMEDIATELY AFTER SEEDING. USE METAL STAPLES PER MANUFACTURER'S RECOMMENDATIONS TO HOLD MULCH IN PLACE.



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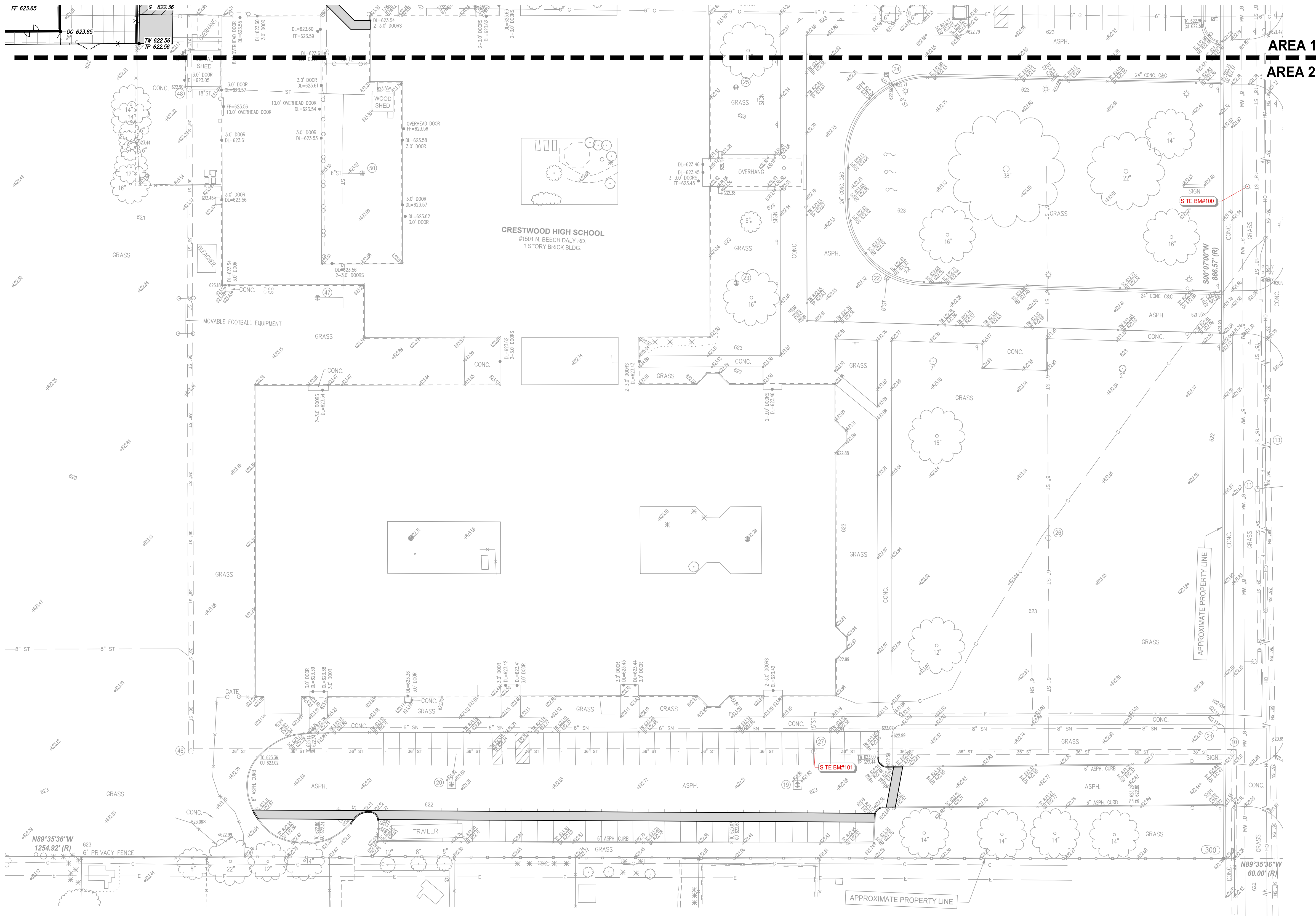
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Crestwood School District  
 Crestwood High School  
 Site Improvements

Project No. 2522 (SDA NP22067)

C5.1



AREA 1  
AREA 2

LEGEND	
	PROPOSED WATERMAIN
	PROPOSED SANITARY
	PROPOSED STORM SEWER
	PROPOSED GAS MAIN
	PROPOSED ELECTRIC
	PROPOSED HYDRANT
	PROPOSED GATE VALVE & WELL (GW)
	PROPOSED TAPPING SLEEVE, VALVE & WELL (TSVW)
	PROPOSED SAN MANHOLE (SAN)
	PROPOSED STORM MANHOLE (SM)
	PROPOSED CATCH BASIN (CB)
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	PROPOSED END SECTION (ES)
	PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER
	STANDARD BITUMINOUS PAVEMENT
	HEAVY-DUTY BITUMINOUS PAVEMENT
	DEEP-STRENGTH BITUMINOUS PAVEMENT
	CONCRETE PAVEMENT
	CONCRETE SIDEWALK
	MILL PAVEMENT
	UTILITY CROSSING (SEE DATA TABLE)
	STORM SEWER STRUCTURE
	SANITARY SEWER STRUCTURE
	WATERMAIN STRUCTURE

GRADING LEGEND	
	EXISTING ELEVATION
	PROPOSED TOP OF CURB ELEVATION
	PROPOSED GUTTER ELEVATION
	OUTSIDE GRADE ELEVATION
	EXISTING CONTOURS
	PROPOSED CONTOURS
	TOP OF PAVEMENT ELEVATION
	TOP OF WALK ELEVATION
	FINISH GRADE ELEVATION
	TOP OF WALL ELEVATION
	MATCH EXISTING ELEVATION
	FLOW ARROW



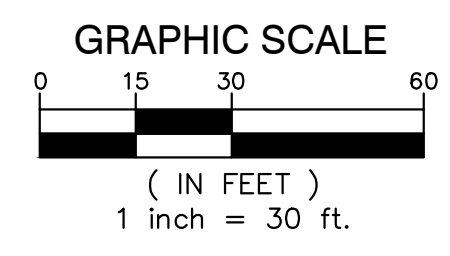
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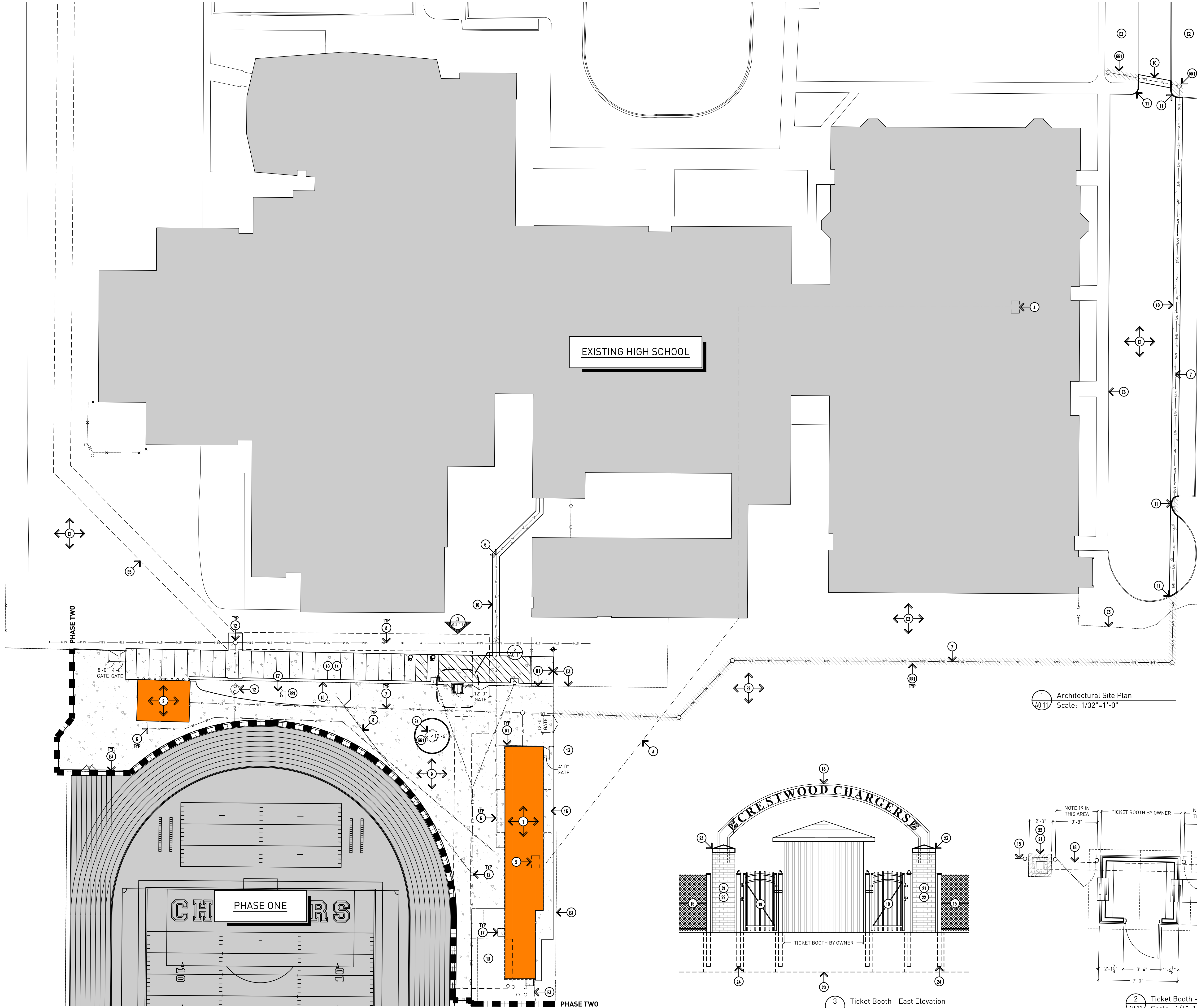
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Crestwood School District  
Crestwood High School  
Site Improvements



Project No. 2522 (SDA NP22067) C5.2



**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR DIRECTION.
- G3. CONTRACTOR TO REPLACE ALL ITEMS BACK TO ORIGINAL CONDITION IF DAMAGED DURING CONSTRUCTION OPERATIONS, YET NOT INDICATED TO BE REPLACED (I.E. CONCRETE SIDEWALKS, LAWN AREA, ASPHALT PAVING, ETC.)
- G4. DISPOSE OF ALL ITEMS REMOVED OFF SITE PER LOCAL BUILDING AND SAFETY ORDINANCES.
- G5. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED AND FINISHED BACK TO EXISTING CONDITION.
- G6. REFER TO CIVIL AND STRUCTURAL DRAWINGS AS WELL AS ARCHITECTURAL BUILDING SECTIONS FOR EXCAVATION.
- G7. REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR FURTHER INFORMATION.
- G8. CONFORM TO ALL CITY OF DEARBORN HEIGHTS AND / OR WAYNE COUNTY REQUIREMENTS FOR WORK IN THE PUBLIC RIGHT-OF-WAY.
- G9. CONFORM TO ALL CITY OF DEARBORN HEIGHTS AND / OR WAYNE COUNTY REQUIREMENTS FOR SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- G10. CONTRACTOR TO MATCH GRADES EXACTLY, ESPECIALLY AT EXISTING CONCRETE SLABS, ETC.
- G11. CONFORM TO ALL MICHIGAN BARRIER FREE REQUIREMENTS.
- G12. DRAWING IS DIAGRAMMATIC AND FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

**GENERAL SITE NOTES:**

- SN1. GRADE LAWN AREA AWAY FROM BUILDING MINIMUM 1/4" PER FOOT.
- SN2. GRADE TO BE 4" BELOW FINISH FLOOR AT ALL AREAS EXCEPT AT ENTRANCES.

**REMOVAL NOTES:**

- R1. EXISTING FENCING - COMPLETE.

**REMOVE & REINSTALL NOTES:**

- RR1. EXCAVATE AND RE-GRADE AS REQUIRED FOR CONSTRUCTION OPERATIONS - REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.

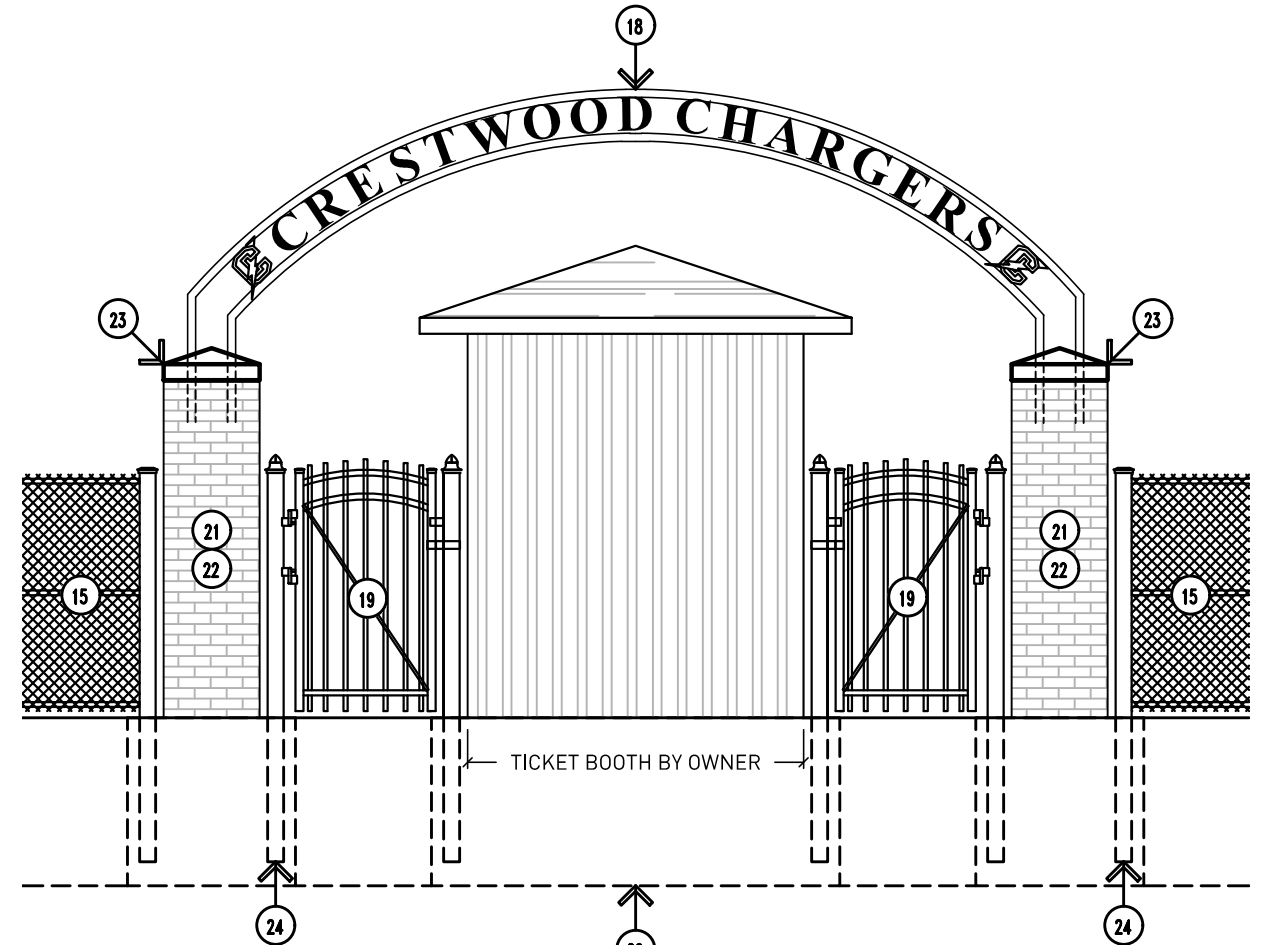
**EXISTING TO REMAIN:**

- E1. ASPHALT PAVEMENT.
- E2. LAWN/SOIL EXCEPT AS INDICATED IN CIVIL DRAWINGS.
- E3. EXISTING FENCING - CONTRACTOR TO REPAIR OR REPLACE DAMAGED FENCING AT THE END OF CONSTRUCTION.
- E4. EXISTING MEMORIAL TREE.
- E5. EXISTING EASEMENT.
- E6. EXISTING CONCRETE SIDEWALK.
- E7. EXISTING FLAGPOLE AND BASE.

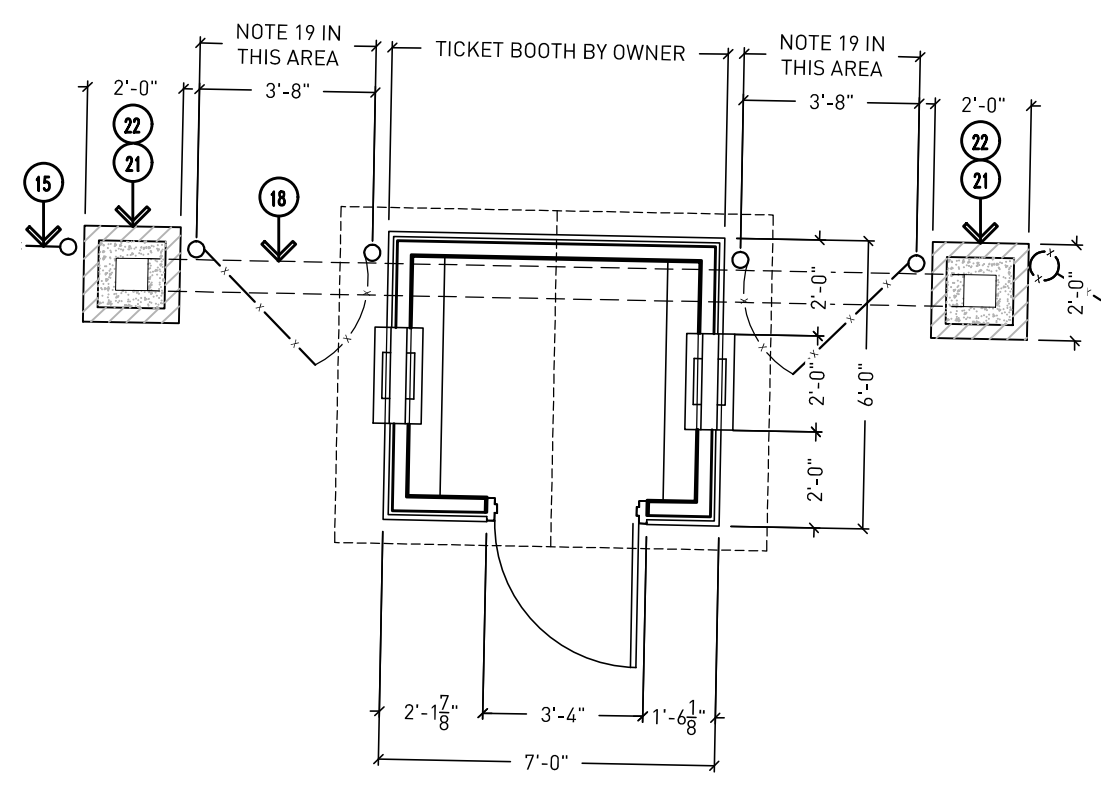
**DRAWING NOTES CONTINUED:**

- 1. BUILDING A.
- 2. BUILDING B.
- 3. LINE OF TECHNOLOGY TIE-IN - REFER TO TECHNOLOGY DRAWINGS FOR FURTHER INFORMATION.
- 4. LOCATION OF MDF - REFER TO TECHNOLOGY DRAWINGS FOR FURTHER INFORMATION.
- 5. LOCATION OF IDF - REFER TO TECHNOLOGY DRAWINGS FOR FURTHER INFORMATION.
- 6. LINE OF WATER TIE-IN - REFER TO CIVIL AND MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- 7. LINE OF SANITARY DRAIN TIE-IN - REFER TO CIVIL AND MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- 8. LINE OF STORM DRAIN TIE-IN - REFER TO CIVIL AND MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- 9. 5" CONCRETE SIDEWALK ON MINIMUM 4" SAND CUSHION BASE ON PROPERLY COMPACTED SUB-GRADE - REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
- 10. ASPHALT PAVING - REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
- 11. REPLACE DAMAGED CONCRETE WALK & CURB AS NEED FROM CONTRACTOR OPERATIONS.
- 12. STORM DRAIN.
- 13. PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
- 14. PARKING LOT STRIPING - REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
- 15. BLACK VINYL CHAINLINK FENCING - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 16. LINE OF ROOF ABOVE.
- 17. FROST SLAB.
- 18. DISTRICT LOGO AND "CRESTWOOD CHARGERS" IRON ARCH - CONTRACTOR TO VERIFY FINAL LOGO LAYOUT WITH OWNER PRIOR TO MANUFACTURING.
- 19. ORNAMENTAL STEEL FENCE POSTS AND GATE.
- 20. LINE OF FOUNDATION - REFER TO STRUCTURAL DRAWINGS.
- 21. 4" BRICK VENEER TO MATCH EXISTING (INSTALL HEADER COURSE EVERY 6 ROWS OF BRICK. -- COLOR TO BE BELDEN BRICK "1-HB").
- 22. CONCRETE IRON ARCH SUPPORT PIER.
- 23. LIMESTONE CAP.
- 24. FENCE POST - TO BE DRIVEN INTO THE GROUND A MINIMUM OF 3'-6" TO MEET FROST REQUIREMENTS.

1 Architectural Site Plan  
Scale: 1/32"=1'-0"



3 Ticket Booth - East Elevation  
Scale: 1/4"=1'-0"



2 Ticket Booth - Floor Plan  
Scale: 1/4"=1'-0"

Bidding and Permits: 20 March 2023

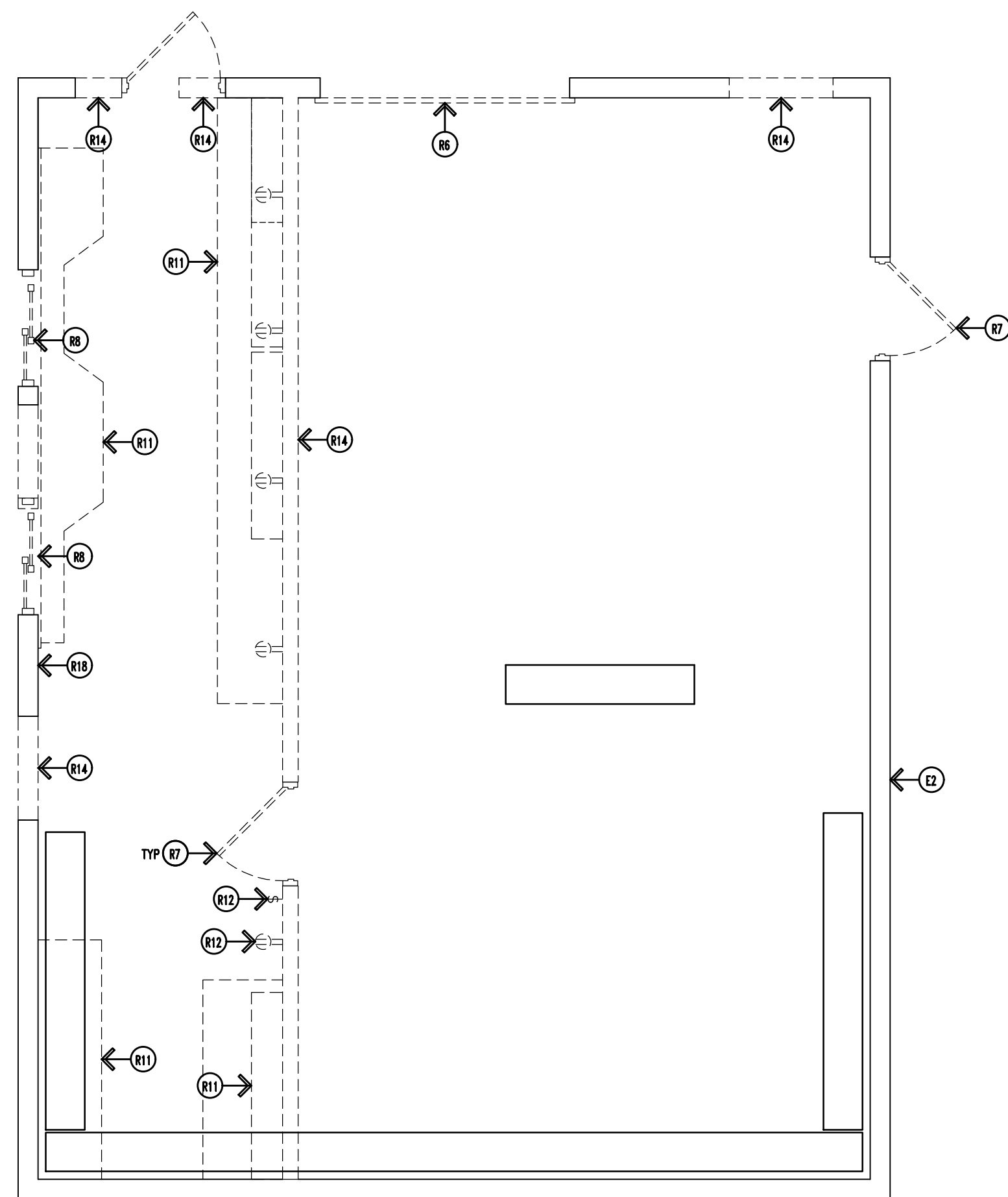
**Architectural Site Plan & Details**



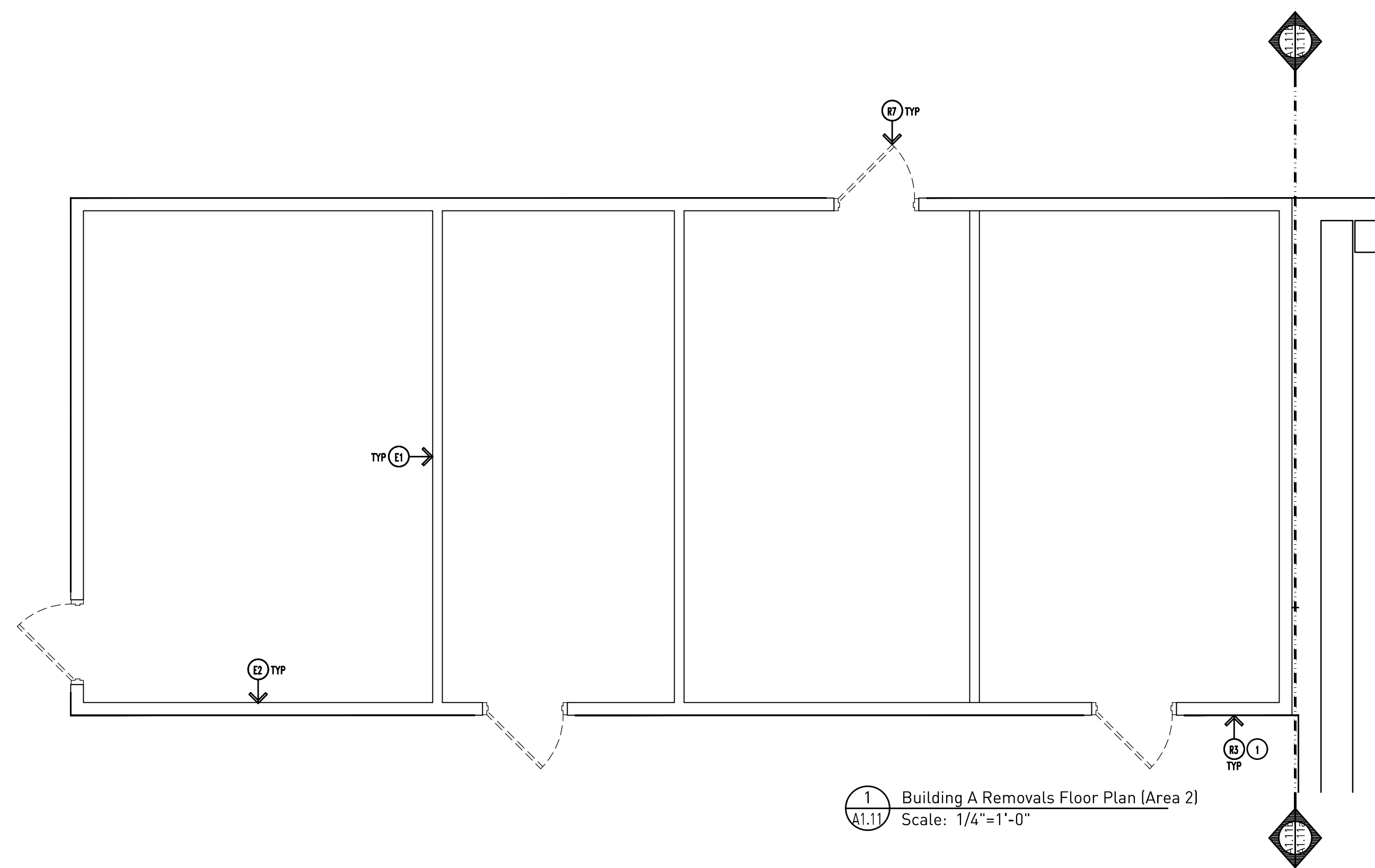
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

A0.11



2 Building B Removals Floor Plan  
Scale: 1/4"=1'-0"



1 Building A Removals Floor Plan (Area 2)  
Scale: 1/4"=1'-0"

**REMOVAL NOTES CONTINUED:**

- R7. EXISTING DOOR, FRAME, HARDWARE, ETC. COMPLETE.
- R8. EXISTING WINDOW SYSTEM, GLAZING, ETC. COMPLETE.
- R9. EXISTING LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R10. EXISTING CEILING.
- R11. EXISTING MILLWORK - COUNTER OR STORAGE CABINET.
- R12. EXISTING ELECTRICAL EQUIPMENT -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R13. EXISTING HVAC -- REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- R14. EXISTING WALL.
- R15. EXISTING GUTTER/ DOWNSPOUT.
- R16. EXISTING EXTERIOR ACCESSORIES.
- R17. CUT FASCIA BACK TO LINE OF EXISTING WALL FOR NEW ROOF TIE IN.
- R18. EXISTING ELECTRICAL PANEL-- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.

**DRAWING NOTES:**

1. CONTRACTOR TO INVESTIGATE EXISTING PLYWOOD SHEATHING FOR STRUCTURAL SOUNDNESS. IF IT IS DETERMINED THAT REPLACEMENT IS REQUIRED, THE CONTRACT WILL BE ADJUSTED ACCORDINGLY VIA CHANGE ORDER AT THE UNIT PRICES INCLUDED ON THE PROPOSAL FORM. CONTRACTOR TO MATCH EXISTING THICKNESS (C.F.V.)

**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. ALL NOTES MAY NOT APPLY TO THIS SHEET.
- G3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G4. PROTECT ALL ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.

**EXISTING TO REMAIN:**

- E1. INTERIOR WALL
- E2. EXTERIOR WALL

**REMOVAL NOTES:**

- R1. REMOVAL OF EXISTING SHINGLES, DECK PROTECTION, ETC.
- R2. REMOVAL OF EXISTING EXISTING ALUM. FASCIA, ALUM. SOFFIT, ETC.
- R3. REMOVAL OF EXISTING WOOD SIDING COMPLETE.
- R4. REMOVAL OF MISC. CONDUITS, PIPE, ETC.
- R5. REMOVE EXISTING ROOF VENTS.
- R6. REMOVAL OF EXISTING O/H DOOR AND WOOD FRAME.

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**Removals Floor Plans**



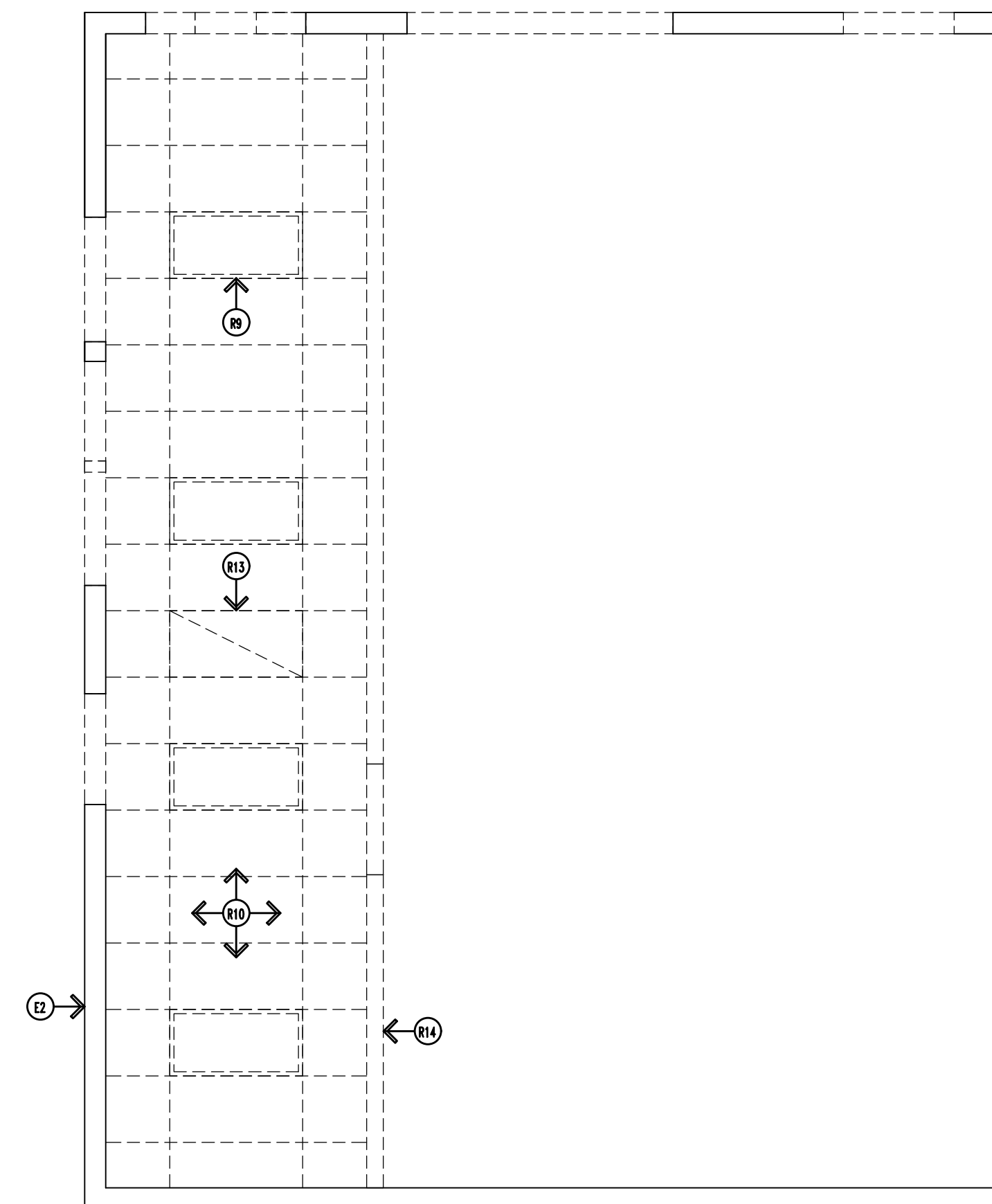
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

A1.11







1 Building B Removals RCP  
A1.14 Scale: 1/4"=1'-0"

**REMOVAL NOTES CONTINUED:**

- R7. EXISTING DOOR, FRAME, HARDWARE, ETC. COMPLETE.
- R8. EXISTING WINDOW SYSTEM, GLAZING, ETC. COMPLETE.
- R9. EXISTING LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R10. EXISTING CEILING.
- R11. EXISTING MILLWORK - COUNTER OR STORAGE CABINET.
- R12. EXISTING ELECTRICAL EQUIPMENT -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R13. EXISTING HVAC -- REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- R14. EXISTING WALL.
- R15. EXISTING GUTTER/ DOWNSPOUT.
- R16. EXISTING EXTERIOR ACCESSORIES.
- R17. CUT FASCIA BACK TO LINE OF EXISTING WALL FOR NEW ROOF TIE IN.
- R18. EXISTING ELECTRICAL PANEL-- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.

**DRAWING NOTES:**

1. CONTRACTOR TO INVESTIGATE EXISTING PLYWOOD SHEATHING FOR STRUCTURAL SOUNDNESS. IF IT IS DETERMINED THAT REPLACEMENT IS REQUIRED, THE CONTRACT WILL BE ADJUSTED ACCORDINGLY VIA CHANGE ORDER AT THE UNIT PRICES INCLUDED ON THE PROPOSAL FORM. CONTRACTOR TO MATCH EXISTING THICKNESS (C.F.V.)

**GENERAL NOTES:**

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- G3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G4. PROTECT ALL ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.

**EXISTING TO REMAIN:**

- E1. INTERIOR WALL
- E2. EXTERIOR WALL

**REMOVAL NOTES:**

- R1. REMOVAL OF EXISTING SHINGLES, DECK PROTECTION, ETC.
- R2. REMOVAL OF EXISTING EXISTING ALUM. FASCIA, ALUM. SOFFIT, ETC.
- R3. REMOVAL OF EXISTING WOOD SIDING COMPLETE.
- R4. REMOVAL OF MISC. CONDUITS, PIPE, ETC.
- R5. REMOVE EXISTING ROOF VENTS.
- R6. REMOVAL OF EXISTING O/H DOOR AND WOOD FRAME.

Bidding and Permits: 20 March 2023

**Removals Ceiling Plan - Building B**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

A1.14





12 Building A : Area 2 South Side  
A1.15 Not To Scale



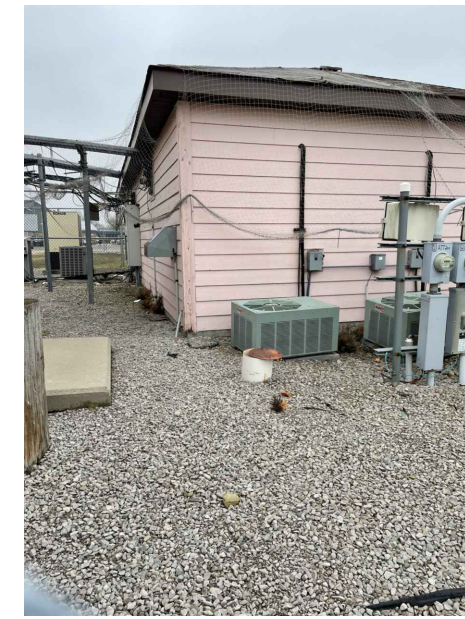
11 Building A: Area 2 South Side  
A1.15 Not To Scale



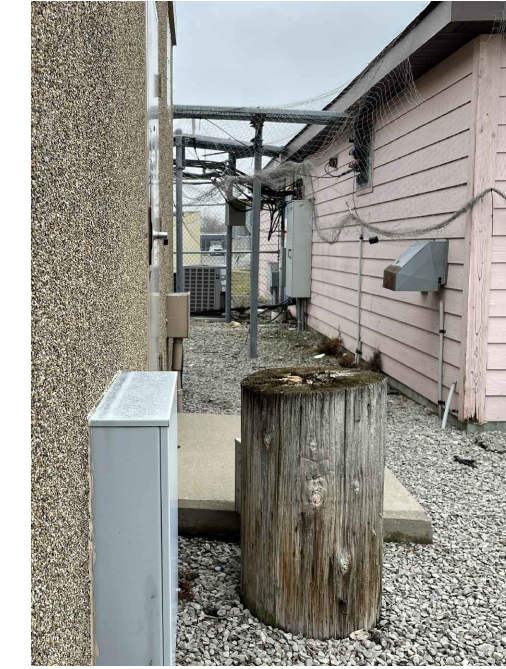
10 Building A : Area 2 West Side  
A1.15 Not To Scale



9 Building A : Area 2 West Side  
A1.15 Not To Scale



8 Building A: Area 2 North West Corner  
A1.15 Not To Scale



7 Building A: Area 2 North Side  
A1.15 Not To Scale

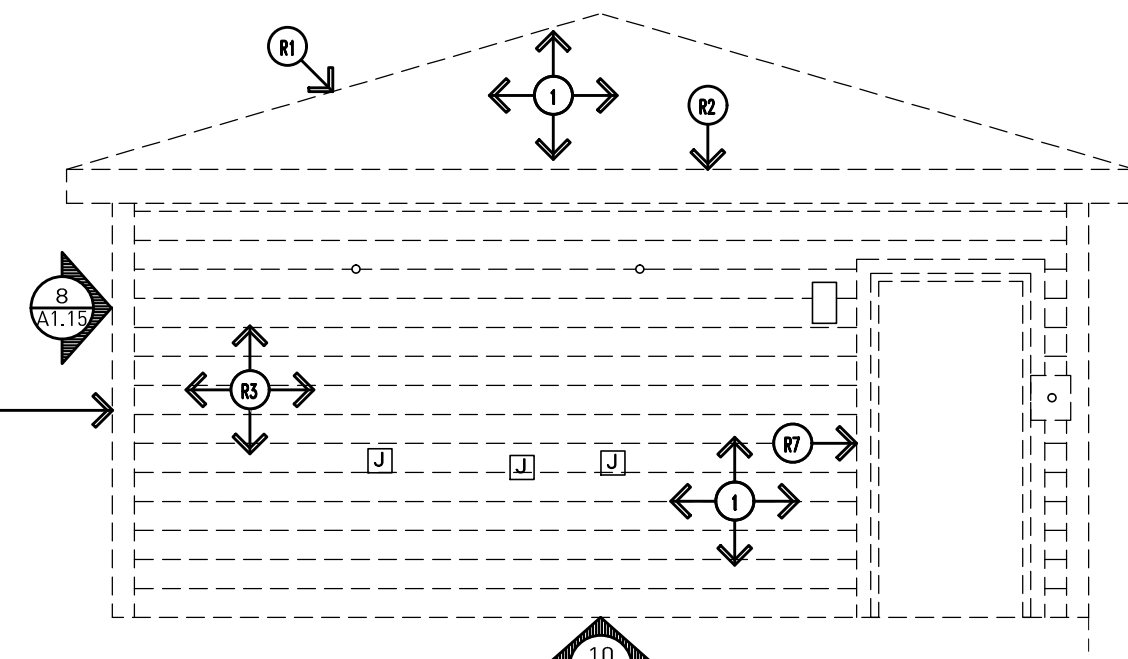


6 Building A: Area 2 North Side  
A1.15 Not To Scale

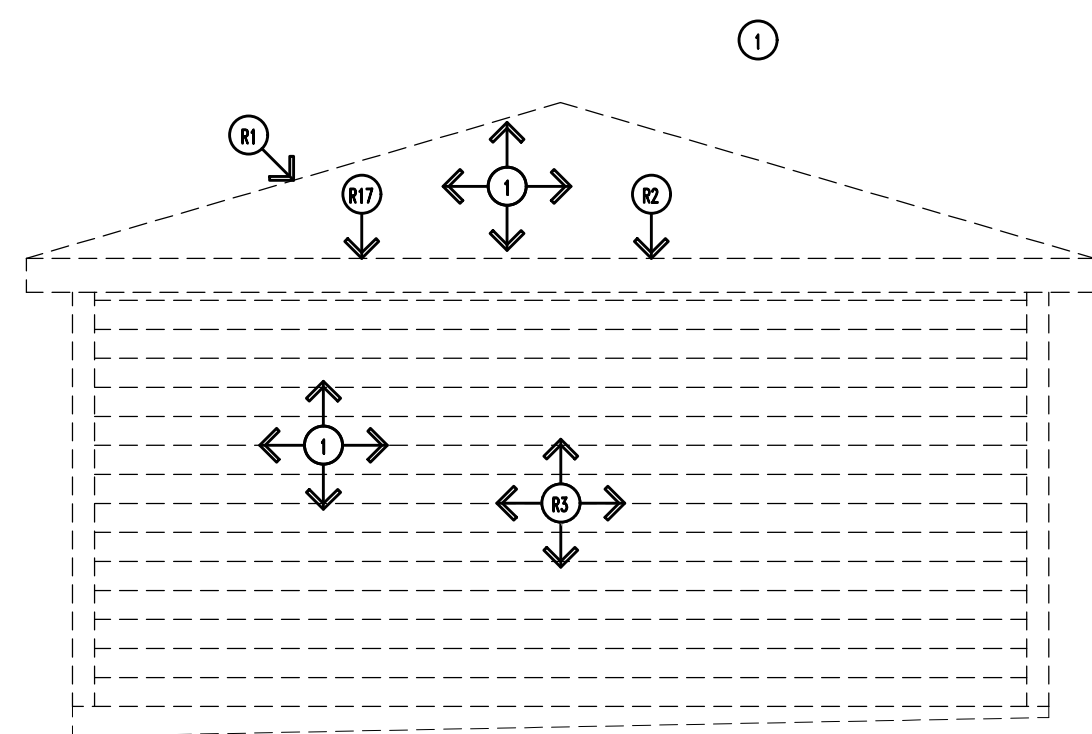


5 Building A: Area 2 North Side  
A1.15 Not To Scale

**CAUTION:**  
ALL EXISTING ELECTRICAL TO BE REMOVED OR EXTENDED AS NECESSARY.

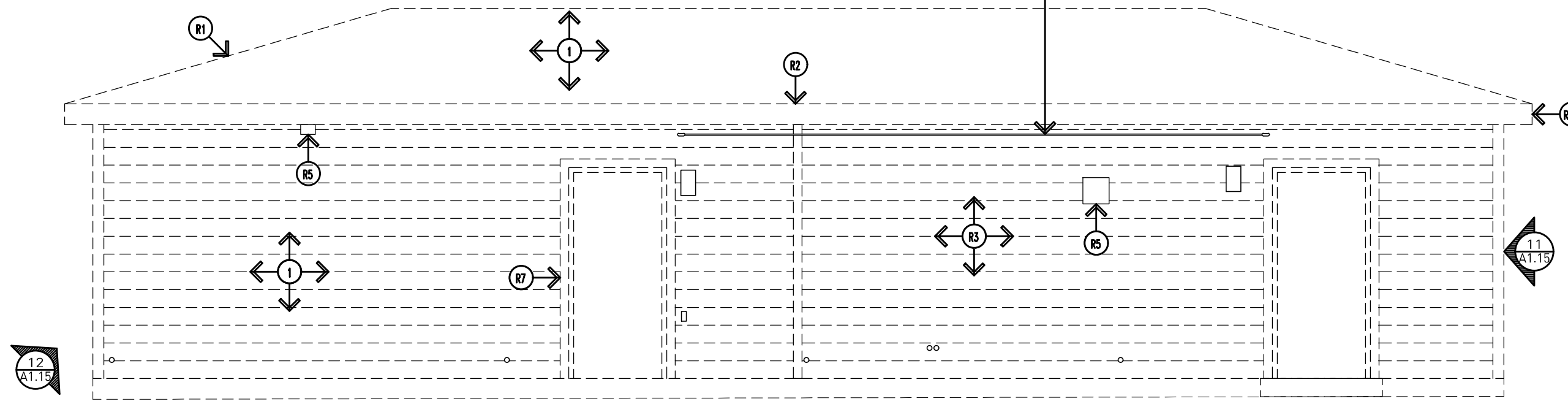


4 Building A: Area 2 Removals Elevation (West)  
A1.15 Scale: 1/4"=1'-0"

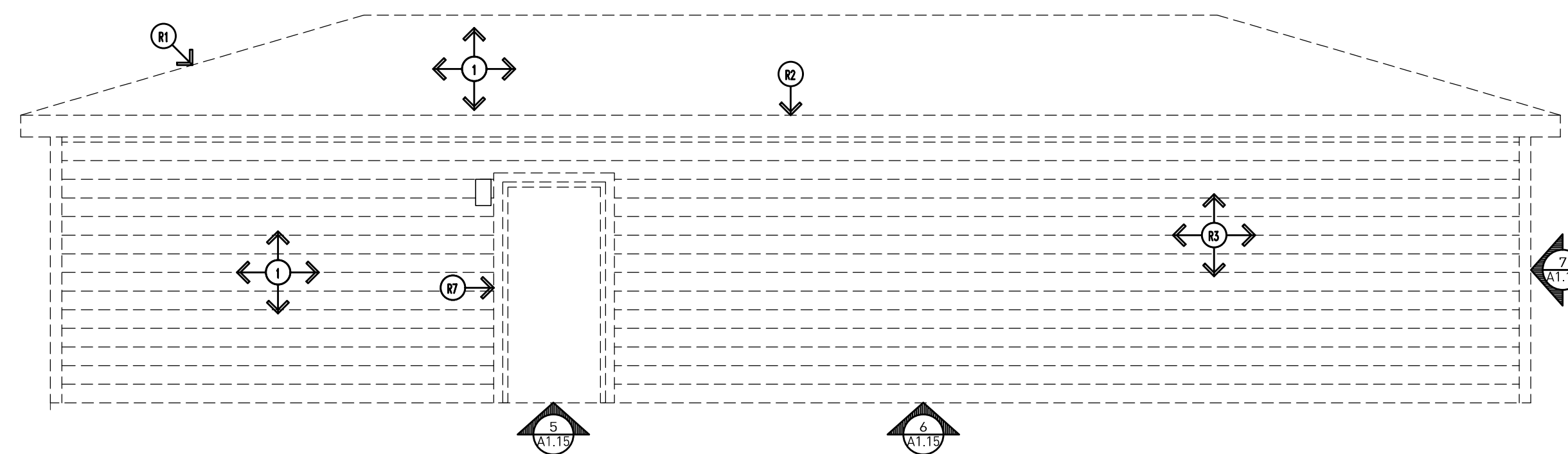


2 Building A: Area 2 Removals Elevation (East)  
A1.15 Scale: 1/4"=1'-0"

**CAUTION:**  
ALL EXISTING ELECTRICAL TO BE REMOVED OR EXTENDED AS NECESSARY.



3 Building A: Area 2 Removals Elevation (South)  
A1.15 Scale: 1/4"=1'-0"



1 Building A: Area 2 Removals Elevation (North)  
A1.15 Scale: 1/4"=1'-0"

**REMOVAL NOTES CONTINUED:**

- R7. EXISTING DOOR, FRAME, HARDWARE, ETC. COMPLETE.
- R8. EXISTING WINDOW SYSTEM, GLAZING, ETC. COMPLETE.
- R9. EXISTING LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R10. EXISTING CEILING.
- R11. EXISTING MILLWORK - COUNTER OR STORAGE CABINET.
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- R14. EXISTING WALL.
- R15. EXISTING GUTTER/ DOWNSPOUT.
- R16. EXISTING EXTERIOR ACCESSORIES.
- R17. CUT FASCIA BACK TO LINE OF EXISTING WALL FOR NEW ROOF TIE IN.
- R18. EXISTING ELECTRICAL PANEL-- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.

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- G4. PROTECT ALL ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.

**EXISTING TO REMAIN:**

- E1. INTERIOR WALL
- E2. EXTERIOR WALL

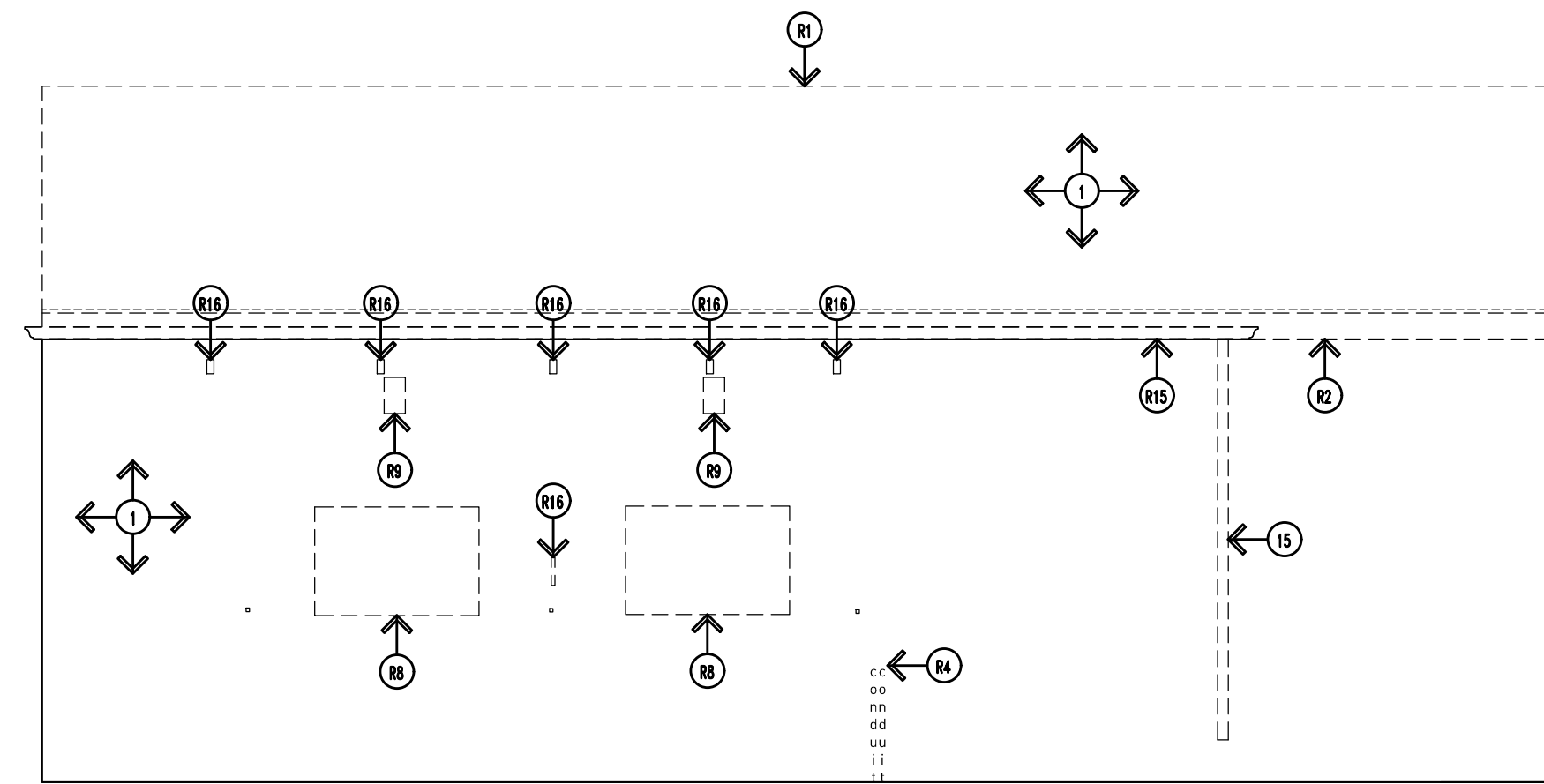
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- R3. REMOVAL OF EXISTING WOOD SIDING COMPLETE.
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- R5. REMOVE EXISTING ROOF VENTS.
- R6. REMOVAL OF EXISTING O/H DOOR AND WOOD FRAME.

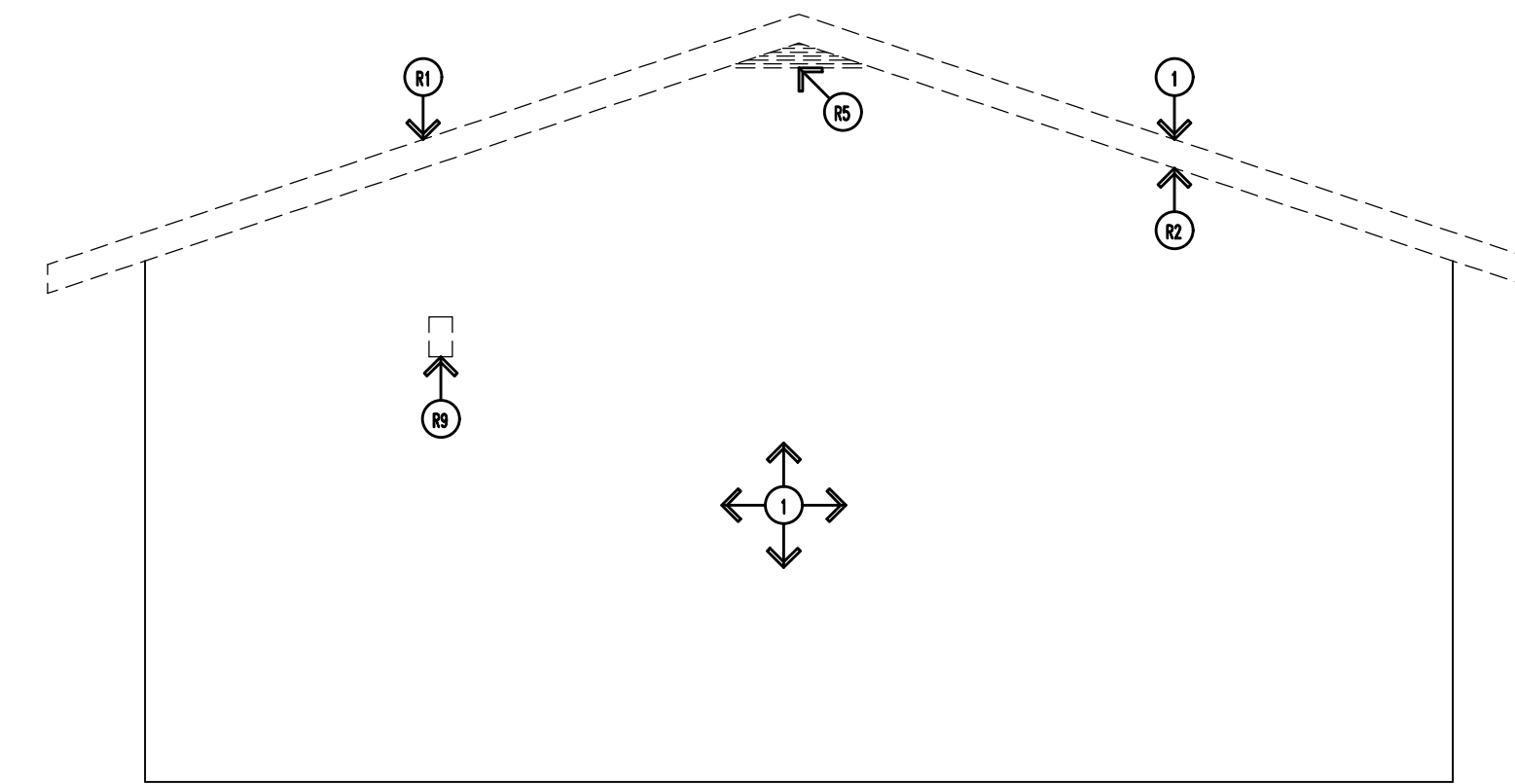
**Removals Elevations - Building A**



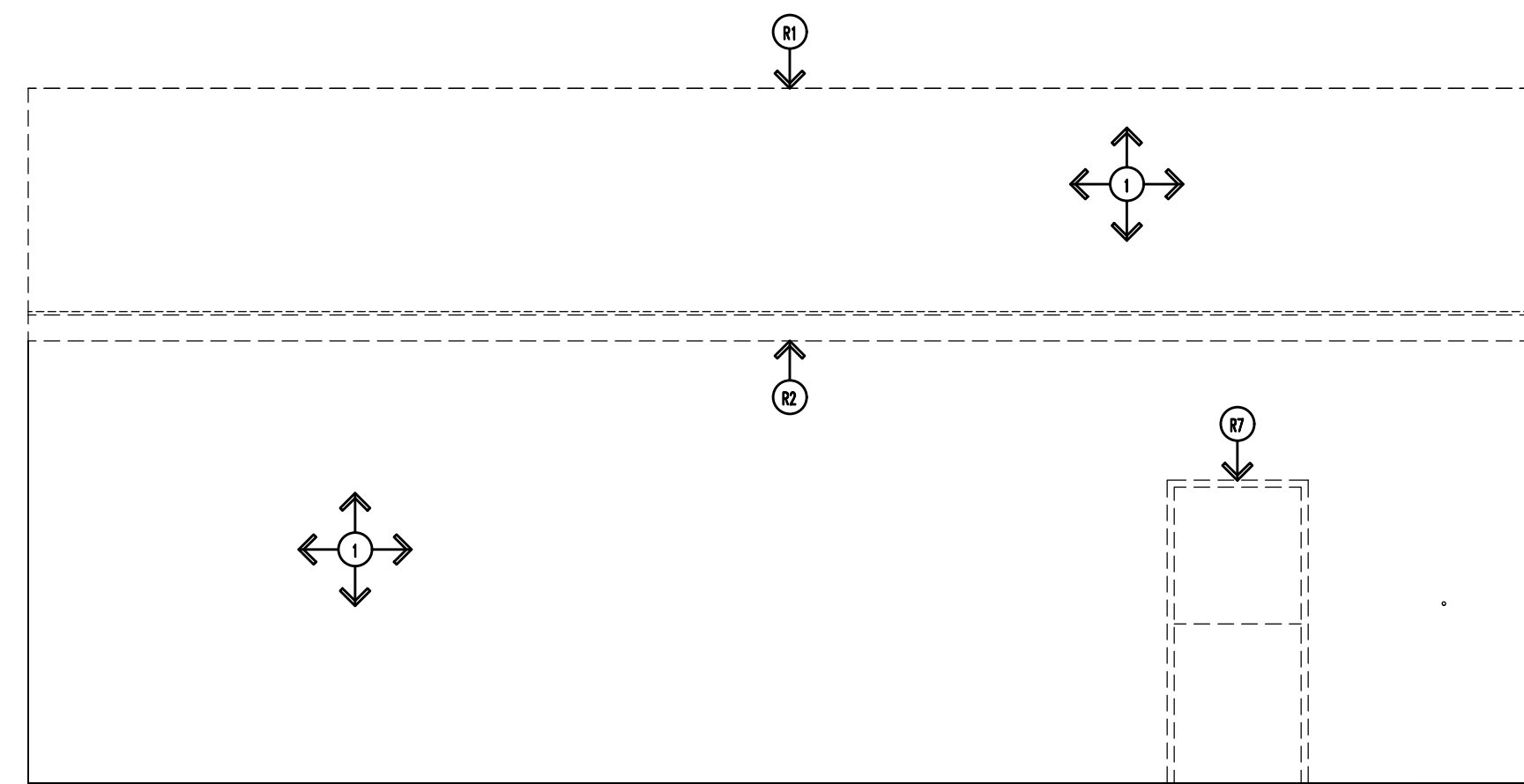
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements



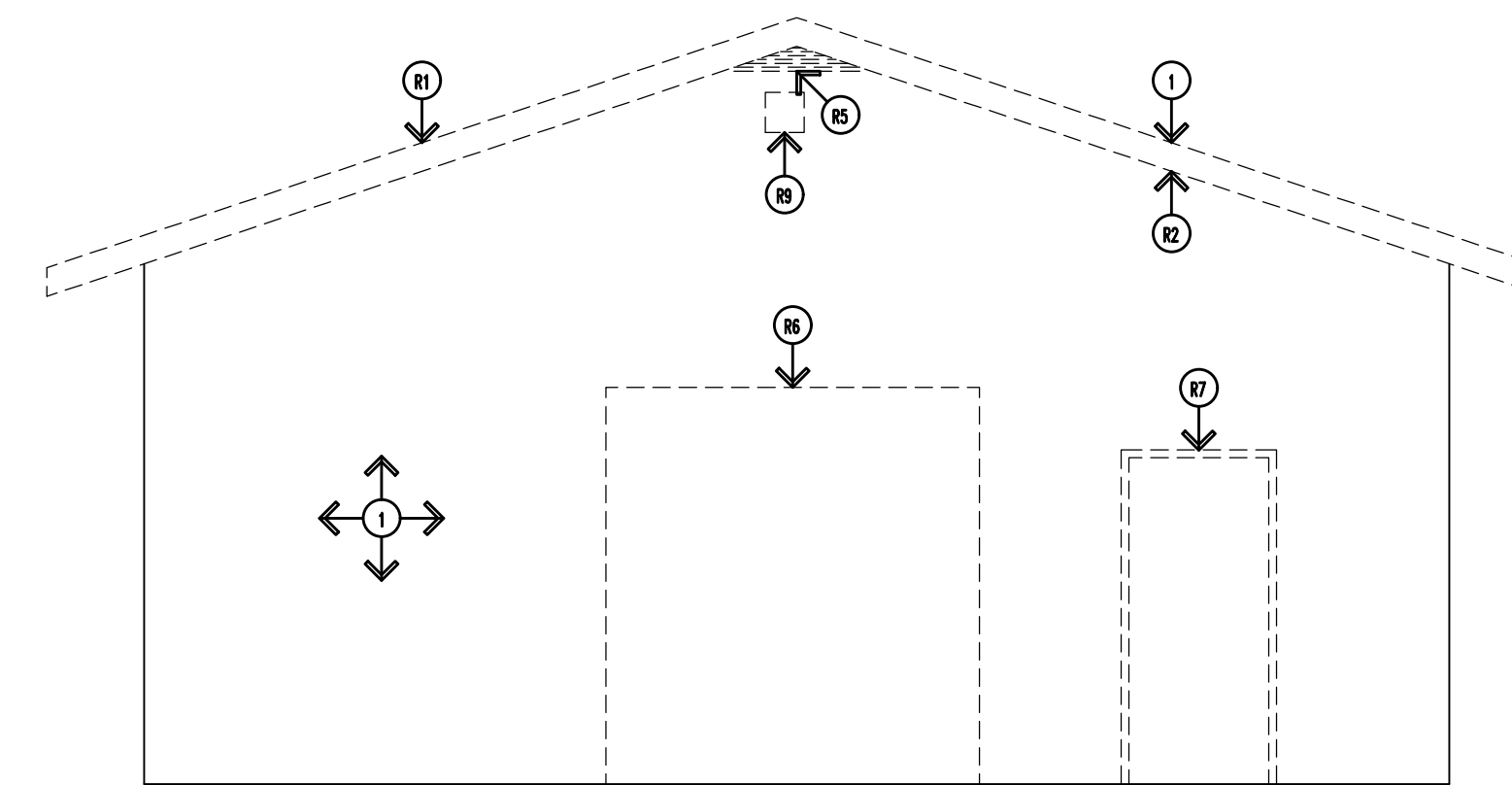
4 Building B Removals Elevation (West)  
Scale: 1/4"=1'-0"



3 Building B Removals Elevation (South)  
Scale: 1/4"=1'-0"



2 Building B Removals Elevation (East)  
Scale: 1/4"=1'-0"



1 Building B Removals Elevation (North)  
Scale: 1/4"=1'-0"

**REMOVAL NOTES CONTINUED:**

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- R9. EXISTING LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
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- E2. EXTERIOR WALL

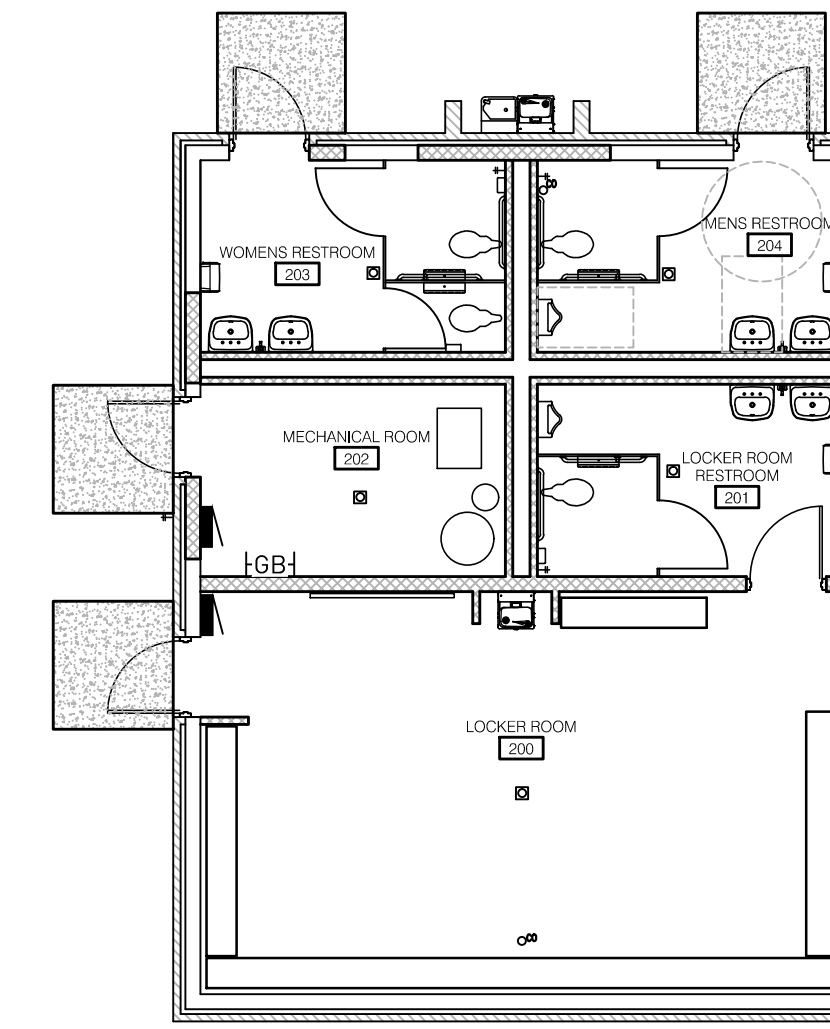
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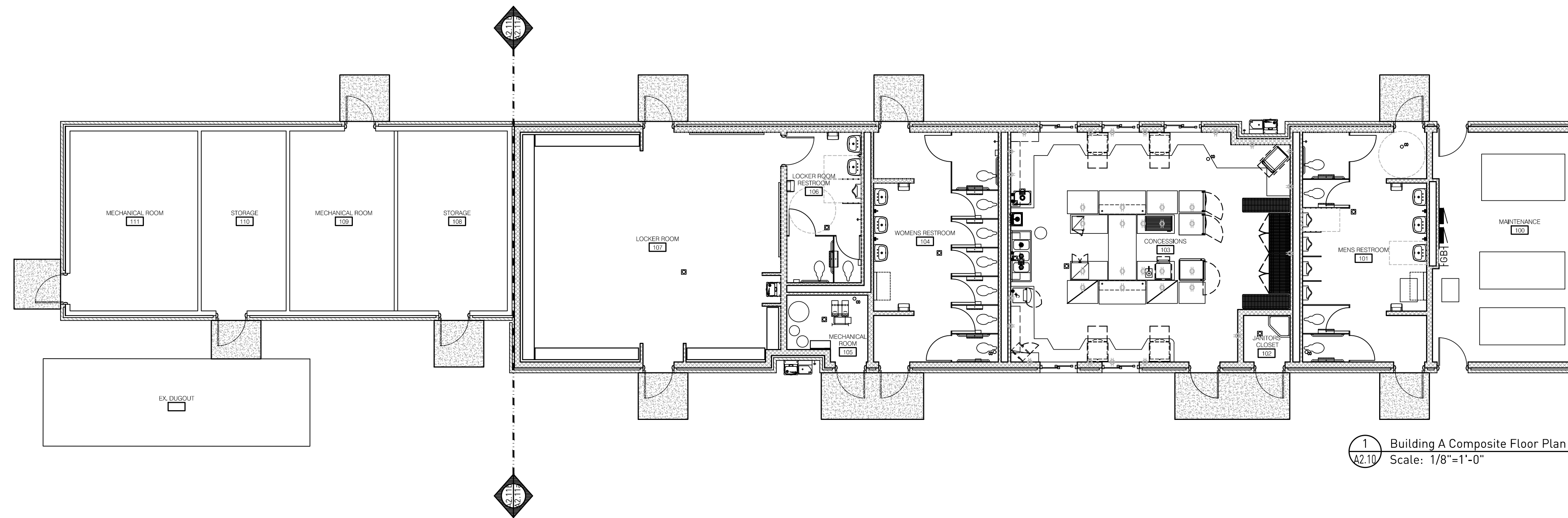
**Removals Elevations - Building B**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements



2 Building B Composite Floor Plan  
Scale: 1/8"=1'-0"



1 Building A Composite Floor Plan  
Scale: 1/8"=1'-0"

GENERAL NOTES:

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Bidding and Permits: 20 March 2023

Composite Floor Plan

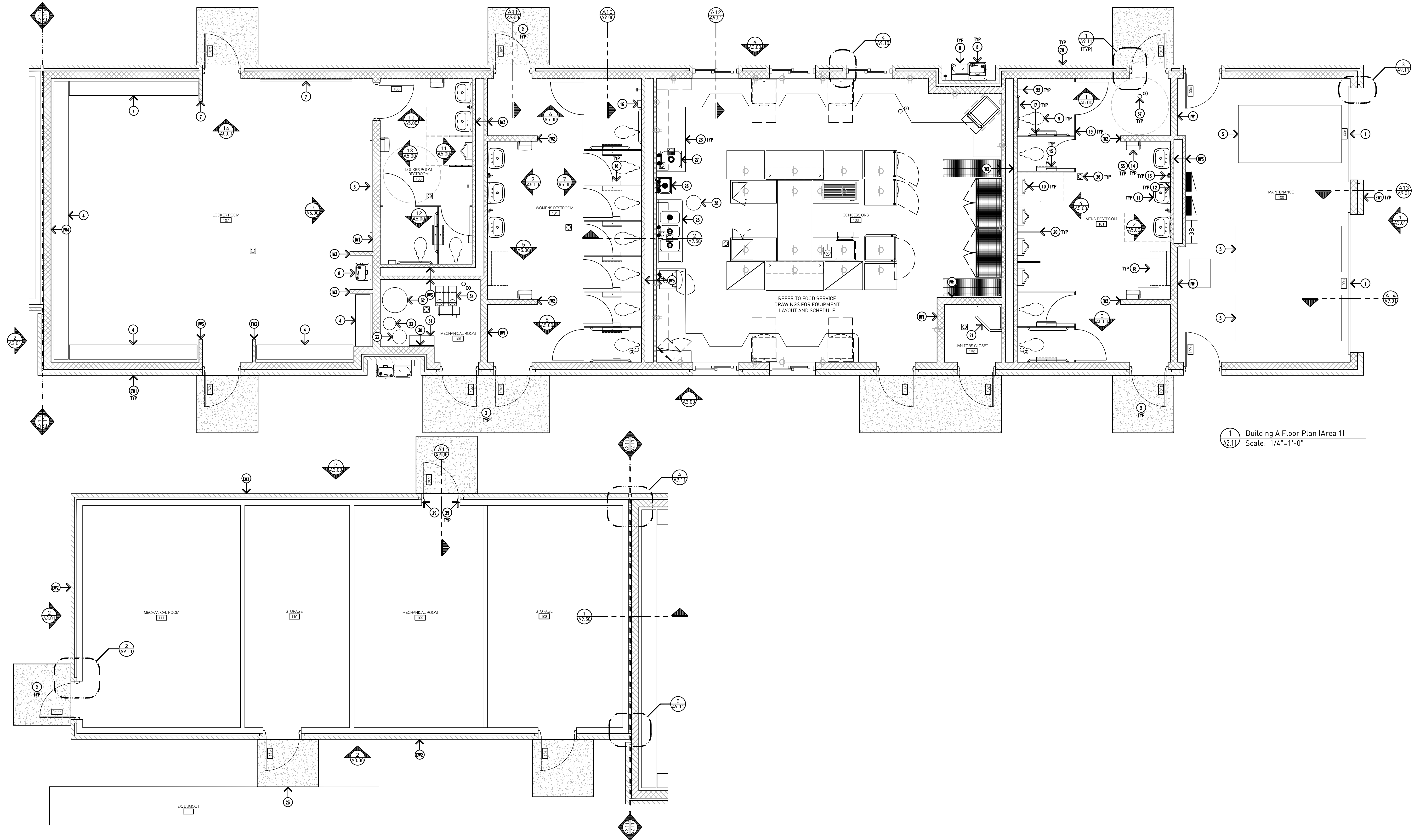
ehresmanarchitects.com

Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

A2.10





1 Building A Floor Plan (Area 1)  
Scale: 1/4"=1'-0"

2 Building A Floor Plan (Area 2)  
Scale: 1/4"=1'-0"

**EXTERIOR WALL TAG DESIGNATION:**

- EW1.
  - 3 5/8" BRICK VENEER WITH ADJACENT BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
  - 2 5/8" AIRSPACE.
  - VAPOR BARRIER
  - 7 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
- EW2.
  - 3 5/8" BRICK VENEER WITH ADJACENT BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
  - 2 5/8" AIRSPACE.
  - VAPOR BARRIER.
  - EXISTING STRUCTURE.

**INTERIOR WALL TAGS:**

- IW1.
  - 7 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
- IW2.
  - 5 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
- IW3.
  - 3 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
- IW4.
  - 7 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
  - 3" AIRSPACE.
  - EXISTING STRUCTURE.

**DRAWING NOTES CONTINUED:**

- 26. HAND WASHING SINK - REFER TO MECHANICAL AND FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
- 27. SINK - REFER TO MECHANICAL AND FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
- 28. FOOD SERVICE COUNTER - REFER TO FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
- 29. PATCH/REPAIR EXISTING WALLS AT REPLACED DOOR FRAMES.
- 30. TELECOM PLYWOOD BACKBOARD, PRIOR TO INSTALLING, COORDINATE WITH OWNERS TECHNOLOGY REP, MECHANICAL, AND ELECTRICAL TRADES.
- 31. DATA EQUIPMENT RACK, PRIOR TO INSTALLING, COORDINATE WITH OWNERS TECHNOLOGY REP, MECHANICAL, AND ELECTRICAL TRADES.
- 32. HOT WATER TANK - REFER TO MECHANICAL DRAWINGS.
- 33. EXPANSION TANK - REFER TO MECHANICAL DRAWINGS.
- 34. BOOSTER PUMP - REFER TO MECHANICAL DRAWINGS.
- 35. WALL MOUNTED WASTE RECEPTACLE.
- 36. FLOOR DRAIN - REFER TO MECHANICAL DRAWINGS. SLOPE FLOOR TO PROVIDE POSITIVE DRAINAGE TO DRAIN.
- 37. SANITARY CLEAN OUT - REFER TO MECHANICAL DRAWINGS.
- 38. GREASE INTERCEPTOR - REFER TO MECHANICAL DRAWINGS.

**DRAWING NOTES CONTINUED:**

- 14. WALL MOUNTED PAPER TOWEL DISPENSER - REFER TO SPECIFICATIONS.
- 15. TOILET TISSUE DISPENSER MOUNTED PER BARRIER FREE REQUIREMENTS.
- 16. SANITARY NAPKIN DISPOSAL, MOUNTED PER BARRIER FREE REQUIREMENTS.
- 17. STAINLESS STEEL GRAB BAR MOUNTED PER ADA REQUIREMENTS - REFER TO A0.00 & SPECIFICATIONS FOR FURTHER INFORMATION.
- 18. WALL MOUNTED BABY CHANGER - REFER TO SPECIFICATIONS.
- 19. FLOOR MOUNTED PLASTIC TOILET COMPARTMENT WITH DOOR, HINGES, SLIDE LATCH, DOOR PULL, COAT HOOK, ETC. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 20. WALL MOUNTED, PLASTIC URINAL SCREEN WITH CONTINUOUS WALL BRACKET, REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. PROVIDE PILASTER AT FREE END FOR SUPPORT.
- 21. FLOOR MOUNTED MOP SINK - REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 22. RECESS HOSE BIBB WITH LOCKABLE COVER. REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 23. ALIGN CONCRETE FROST SLAB WITH THE BACK OF THE EXISTING TO REMAIN DUGOUT WALL.
- 24. MASONRY INFILL AT DOOR/WINDOW SEE REMOVALS. MASONRY TO ALIGN WITH EXISTING WALL THICKNESS EXACTLY.
- 25. THREE COMPARTMENT SINK - REFER TO MECHANICAL AND FOOD SERVICE DRAWINGS FOR MORE INFORMATION.

**DRAWING NOTES:**

- 1. OVERHEAD SECTIONAL DOOR WITH METAL TRACK, ELECTRIC OPERATOR, ETC. - REFER TO DOOR SCHEDULE.
- 2. CONCRETE FROST SLAB MIN 3'-6" BELOW FINISH FLOOR. PROVIDE 1/2" ISOLATION JOINT WITH SEALANT AT BUILDING WALL.
- 3. CONCRETE SPLASH BLOCK.
- 4. PLAYER BENCH.
- 5. DESIGNATED AREA FOR OWNERS BATTERY POWERED UTILITY VEHICLE.
- 6. INTERACTIVE FLAT PANEL - FURNISHED AND INSTALLED BY TECHNOLOGY VENDOR.
- 7. WHITE BOARD - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 8. ELECTRIC WATER COOLER WITH BOTTLE FILLER (1) AT EACH LOCATION, MOUNTED PER BARRIER FREE REQUIREMENTS. REFER TO MECHANICAL DRAWINGS.
- 9. FLOOR MOUNTED TOILET WITH AUTOMATIC FLUSH VALVE, MOUNTED WITH RIM AT 17" A.F.F. (MAXIMUM). REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 10. WALL MOUNTED URINAL WITH AUTOMATIC FLUSH VALVE, MOUNTED WITH RIM AT 17" A.F.F. (MAXIMUM). REFER TO MECHANICAL FOR FURTHER INFORMATION. PROVIDE CONCEALED CARRIER WITH TUBE STEEL SUPPORT LEGS.
- 11. WALL MOUNTED LAVATORY - REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 12. WALL MOUNTED MIRROR - REFER TO SPECIFICATIONS.
- 13. WALL MOUNTED SOAP DISPENSER - REFER TO SPECIFICATIONS.

**GENERAL NOTES:**

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- G4. PROTECT ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G5. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED, AND FINISHED BACK TO ORIGINAL CONDITION.
- G6. NEW FINISH FLOOR TO MATCH EXISTING EXACTLY.
- G7. ALL MASONRY TO MATCH EXISTING COURSING EXACTLY. CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO STARTING WORK.
- G8. CONTRACTOR SHALL INSTALL HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- G9. CONTRACTOR TO INSTALL ADJUSTABLE BRICK VENEER ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY. FIELD VERIFY CAVITY THICKNESS TO PROVIDE CORRECT ANCHOR SIZE.
- G10. ALL OUTSIDE CORNERS OF INTERIOR CMU MASONRY TO BE BULLNOSE.
- G11. MASONRY CONTROL JOINTS SHOULD BE SPACED 25'-0" APART MAX. AND SHOULD NOT BE SPACED FURTHER THAN 1.5x THE WALL HEIGHT - REFER TO THE MASONRY INSTITUTE FOR FURTHER INFORMATION.

Bidding and Permits: 20 March 2023

**Floor Plan - Building A**

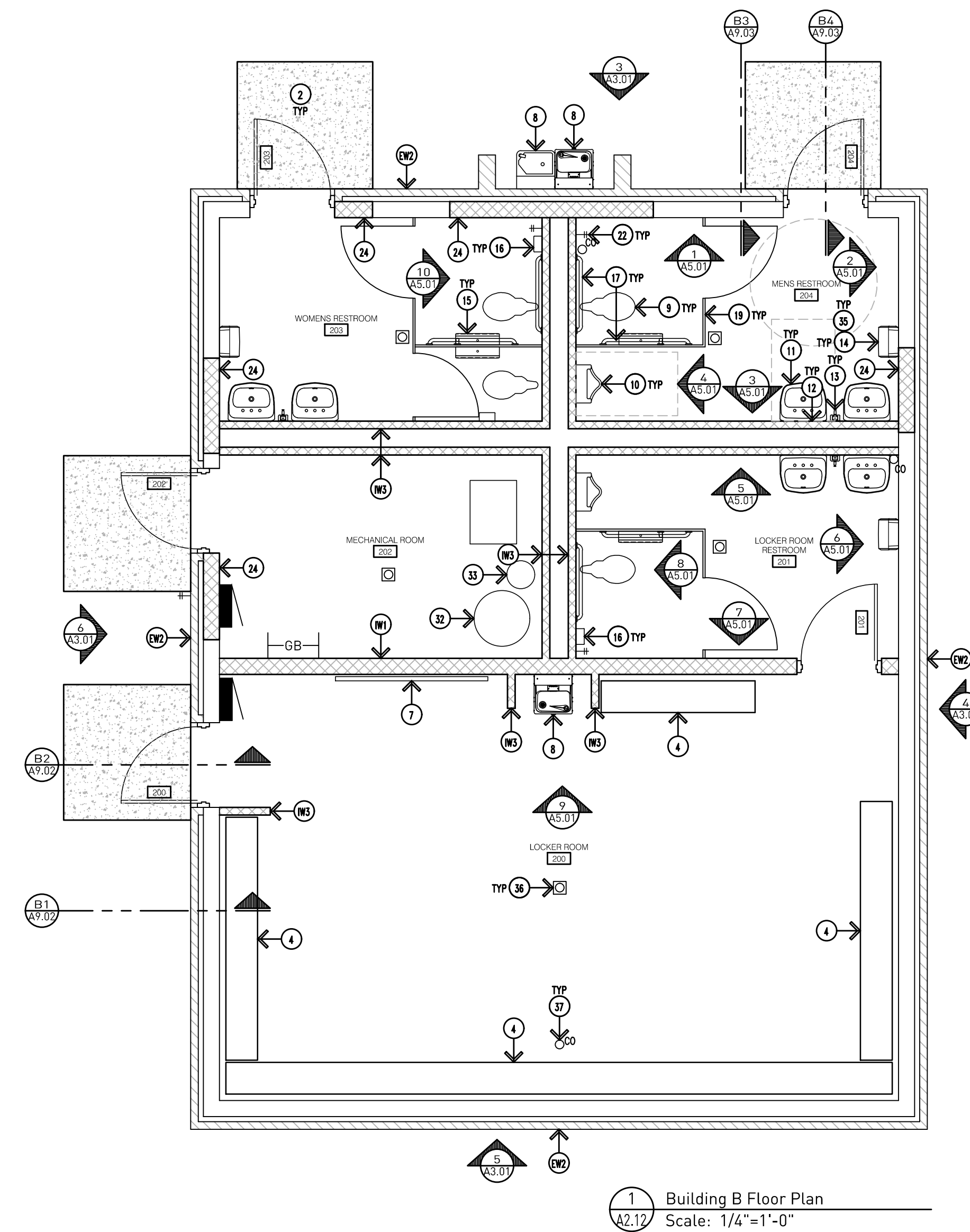


Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

A2.11





1 Building B Floor Plan  
 42.12 Scale: 1/4"=1'-0"

**EXTERIOR WALL TAG DESIGNATION:**

- EW1.
  - 3 5/8" BRICK VENEER WITH ADJACENT BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
  - 2 5/8" AIRSPACE.
  - VAPOR BARRIER.
  - 7 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
- EW2.
  - 3 5/8" BRICK VENEER WITH ADJACENT BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
  - 2 5/8" AIRSPACE.
  - VAPOR BARRIER.
  - EXISTING STRUCTURE.

**INTERIOR WALL TAGS:**

- IW1.
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- IW2.
  - 5 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
- IW3.
  - 3 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
- IW4.
  - 7 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
  - 3" AIRSPACE.
  - EXISTING STRUCTURE.

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- G4. PROTECT ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G5. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED, AND FINISHED BACK TO ORIGINAL CONDITION.
- G6. NEW FINISH FLOOR TO MATCH EXISTING EXACTLY.
- G7. ALL MASONRY TO MATCH EXISTING COURSING EXACTLY. CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO STARTING WORK.
- G8. CONTRACTOR SHALL INSTALL HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- G9. CONTRACTOR TO INSTALL ADJUSTABLE BRICK VENEER ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY. FIELD VERIFY CAVITY THICKNESS TO PROVIDE CORRECT ANCHOR SIZE.
- G10. ALL OUTSIDE CORNERS OF INTERIOR CMU MASONRY TO BE BULLNOSE.
- G11. MASONRY CONTROL JOINTS SHOULD BE SPACED 25"-0" APART MAX. AND SHOULD NOT BE SPACED FURTHER THAN 1.5x THE WALL HEIGHT - REFER TO THE MASONRY INSTITUTE FOR FURTHER INFORMATION.

Bidding and Permits: 20 March 2023

**Floor Plan - Building B**

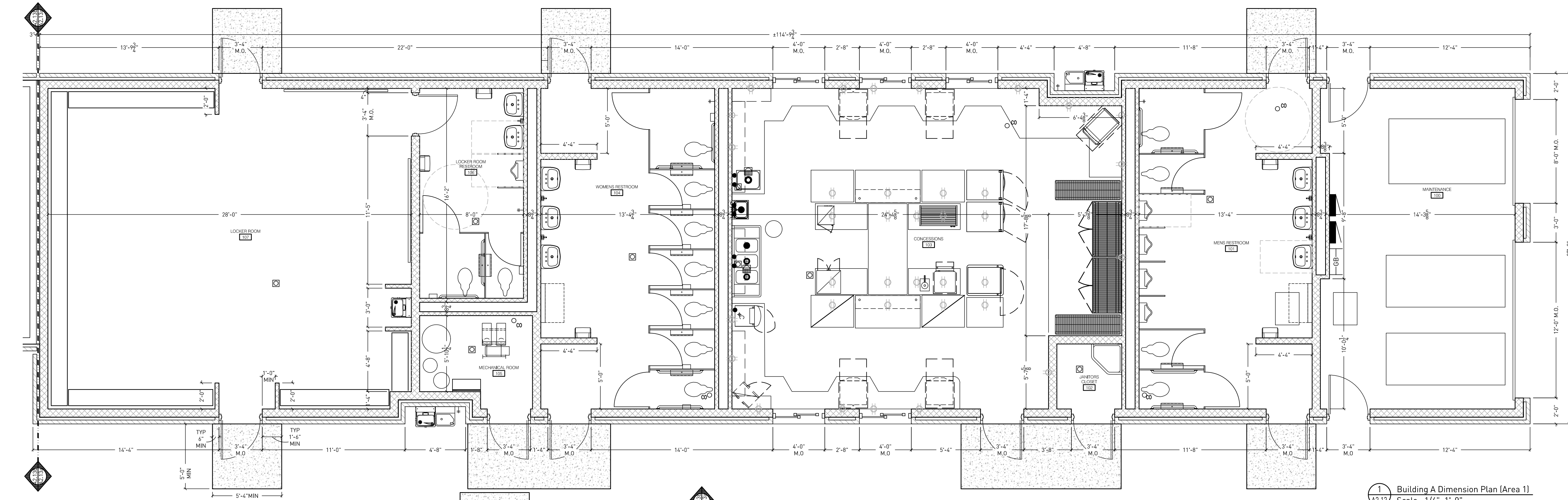


Crestwood School District  
 Crestwood High School  
 Field Building & Site Improvements

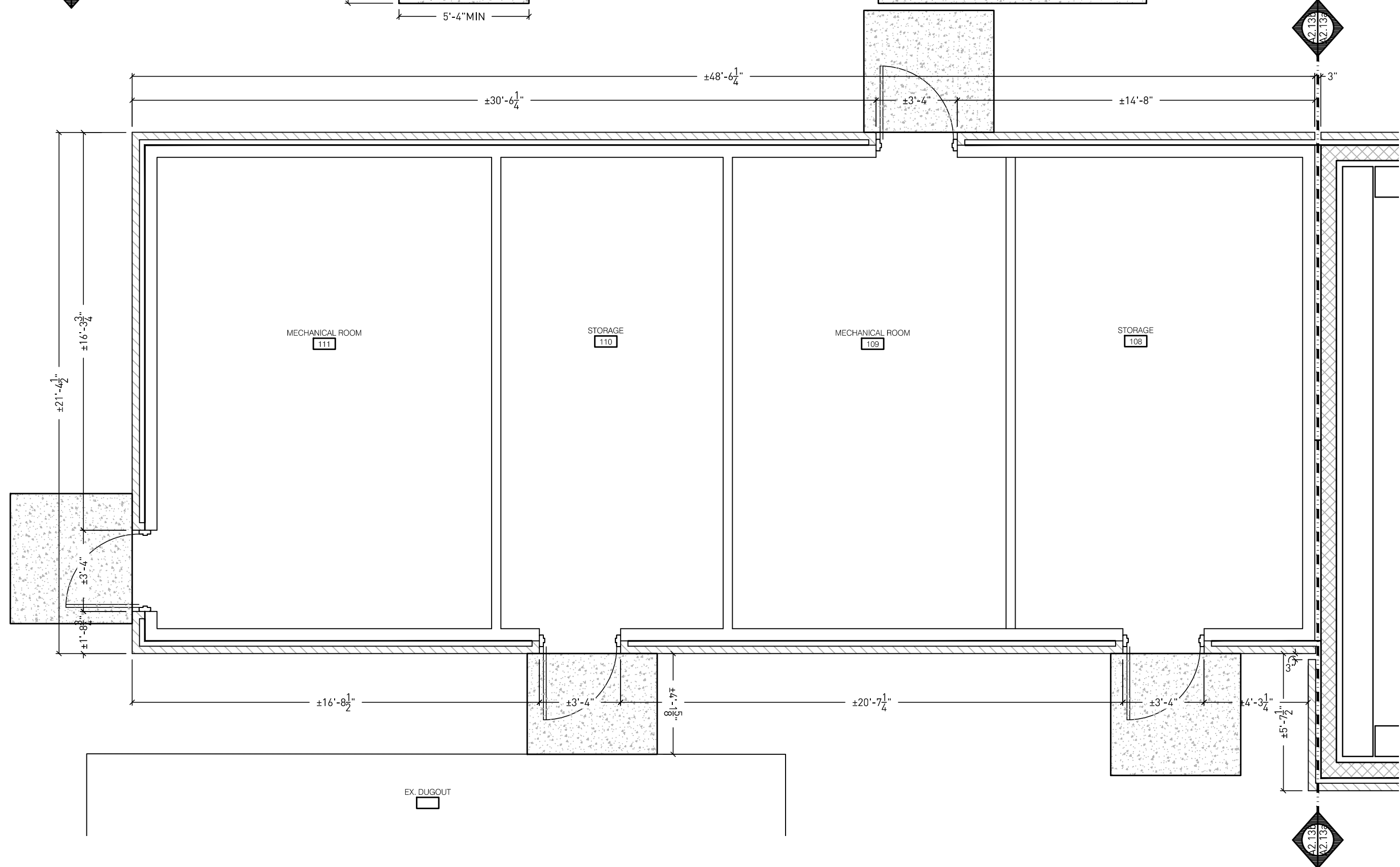
Project No. 5622

A2.12





1 Building A Dimension Plan (Area 1)  
Scale: 1/4"=1'-0"



2 Building A Dimension Plan (Area 2)  
Scale: 1/4"=1'-0"

**GENERAL NOTES:**

01. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

Bidding and Permits: 20 March 2023

**Dimension Plan - Building A**

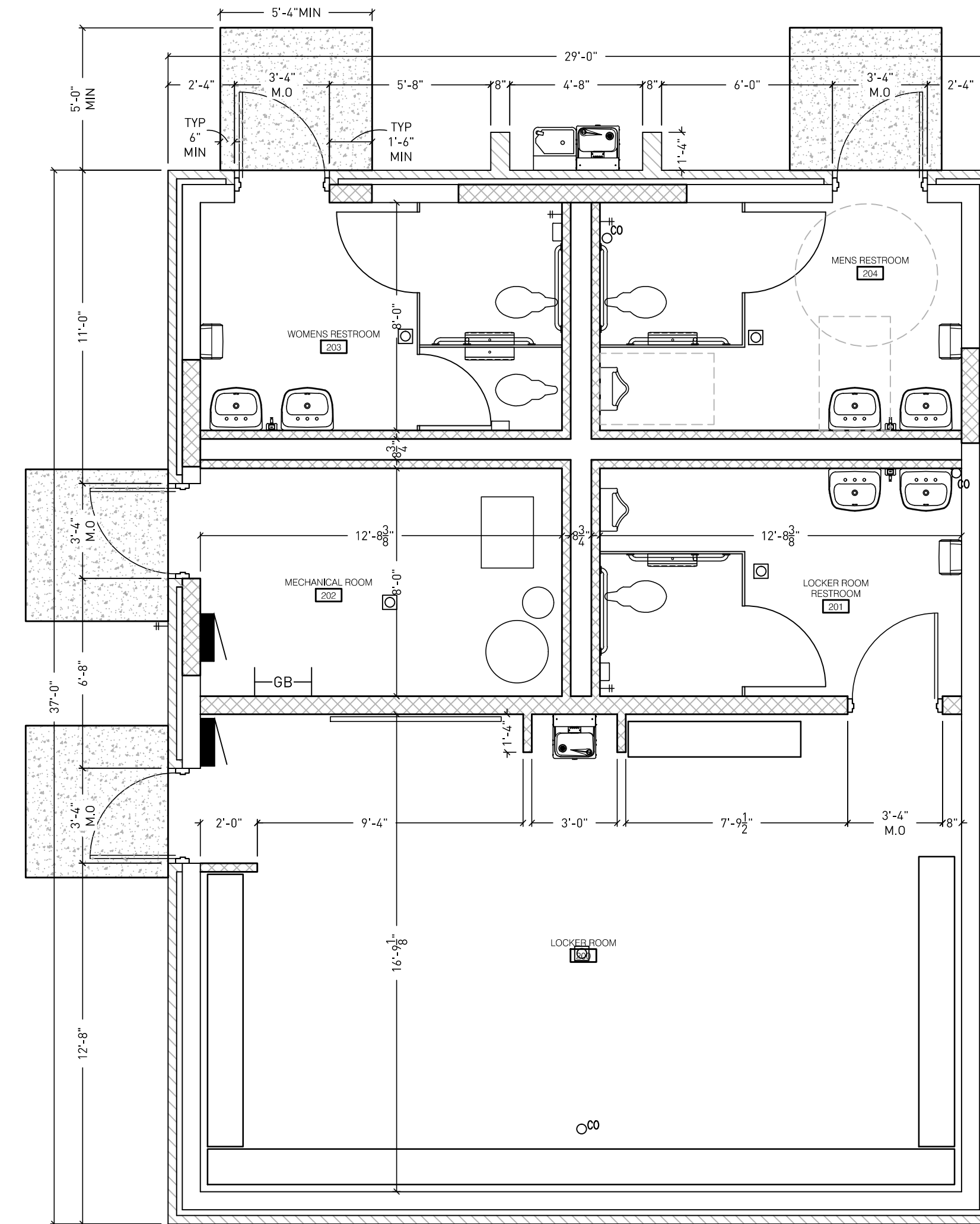


Crestwood School District  
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Field Building & Site Improvements

Project No. 5622

A2.13





1 Building B Dimension Plan  
 A2.14 Scale: 1/4"=1'-0"

**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

**Dimension Plan - Building B**



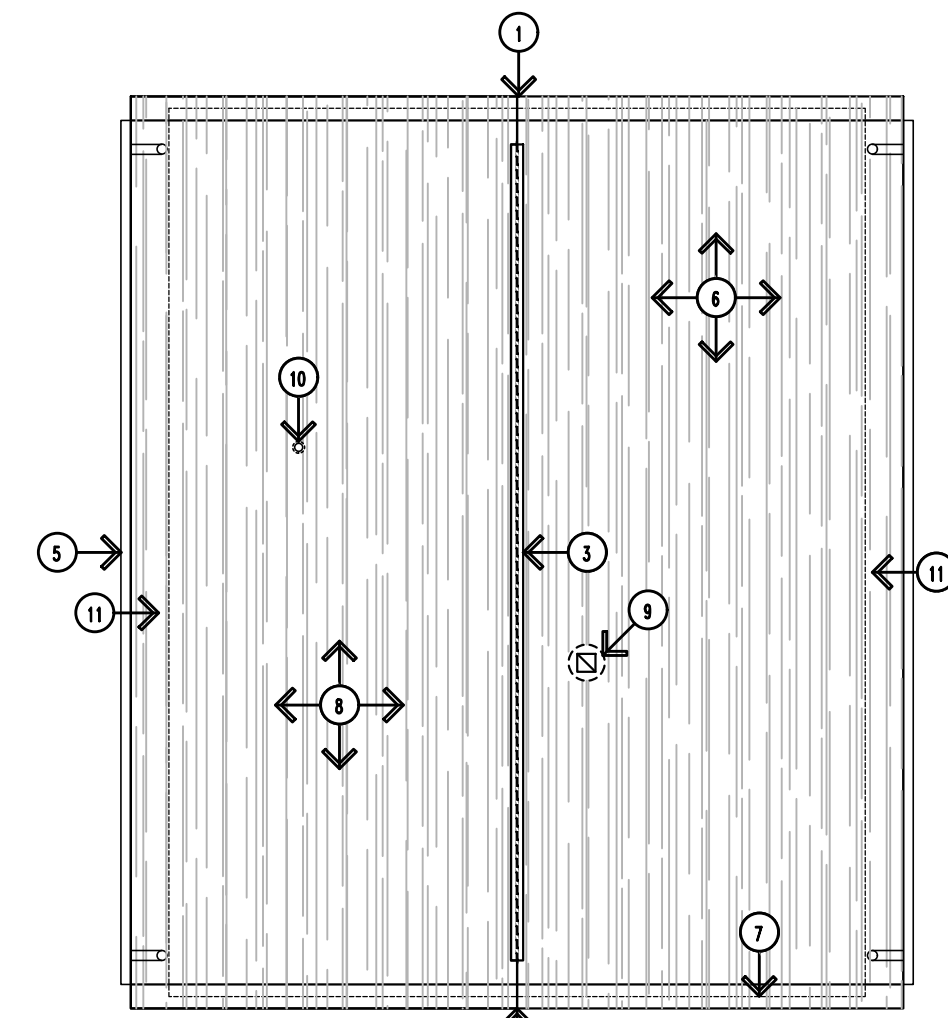
Crestwood School District  
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Project No. 5622

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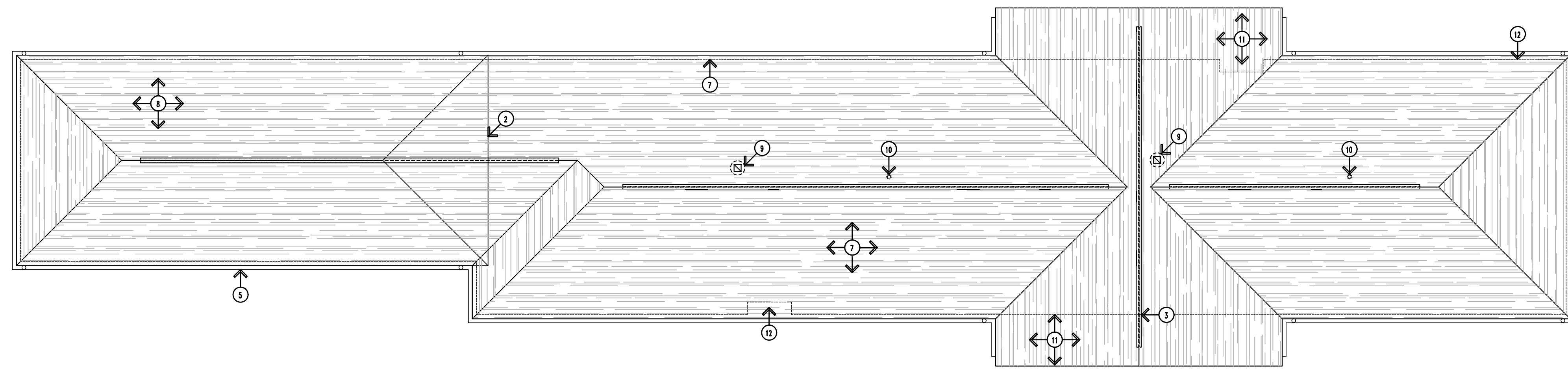




2 Building B Roof Plan  
Scale: 1/8"=1'-0"

ATTIC VENT CALCULATION: BUILDING B

1. AREA OF ATTIC SPACE:	1222 SF
2. NET FREE AREA REQUIRED:	1222 SF / 300 = 4.07 SF
3. FREE AREA REQUIRED IN INCHES:	4.07 SF X 144 = 586 SQ. INCHES
4. EQUAL AREA AT SOFFIT AND RIDGE:	586 SQ. IN. / 2 = 293 SQ. INCHES
5. SHINGLE-OVER RIDGE VENTS AT 18 SQ. IN. / LF:	24 LF X 18 SQ. IN. = 432 SQ. INCHES
6. METAL HALF VENT SOFFIT AT 6% OPEN:	21,456 SQ. IN. X 0.06 = 1,287 SQ. INCHES



1 Building A Roof Plan  
Scale: 1/8"=1'-0"

ATTIC VENT CALCULATION: BUILDING B - AREA 2

1. AREA OF ATTIC SPACE:	1111 SF
2. NET FREE AREA REQUIRED:	1111 SF / 300 = 3.70 SF
3. FREE AREA REQUIRED IN INCHES:	3.70 SF X 144 = 532 SQ. INCHES
4. EQUAL AREA AT SOFFIT AND RIDGE:	532 SQ. IN. / 2 = 266 SQ. INCHES
5. SHINGLE-OVER RIDGE VENTS AT 18 SQ. IN. / LF:	25.75 LF X 18 SQ. IN. = 463 SQ. INCHES
6. METAL HALF VENT SOFFIT AT 6% OPEN:	7,776 SQ. IN. X 0.16 = 466 SQ. INCHES

ATTIC VENT CALCULATION: BUILDING A - AREA 1

1. AREA OF ATTIC SPACE:	3505 SF (ROUNDED)
2. NET FREE AREA REQUIRED:	3505 SF / 300 = 11.68 SF
3. FREE AREA REQUIRED IN INCHES:	11.68 SF X 144 = 1,682 SQ. INCHES
4. EQUAL AREA AT SOFFIT AND RIDGE:	1,682 SQ. IN. / 2 = 841 SQ. INCHES
5. SHINGLE-OVER RIDGE VENTS AT 18 SQ. INCHES / LF:	119 LF X 18 SQ. IN. = 2,142 SQ. INCHES
6. METAL HALF VENT SOFFIT AT 6% OPEN:	61,920 SQ. IN. X 0.06 = 3,715 SQ. IN.

DRAWING NOTES CONTINUED:

4. WOOD FRAMING AT EAST AND WEST SIDES OF EXISTING BUILDING B TO CREATE A FLAT SOFFIT.
5. GUTTERS AND DOWNSPOUTS.
6. ASPHALT SHINGLES.
7. LINE OF EXISTING WALL BELOW.
8. CONTRACTOR TO INVESTIGATE EXISTING PLYWOOD SHEATHING FOR STRUCTURAL SOUNDNESS. IF IT IS DETERMINED THAT REPLACEMENT IS REQUIRED, THE CONTRACT WILL BE ADJUSTED ACCORDINGLY VIA CHANGE ORDER AT THE UNIT PRICES INCLUDED ON THE PROPOSAL FORM. CONTRACTOR TO MATCH EXISTING THICKNESS (C.F.V.)
9. EXHAUST FAN -- REFER TO MECHANICAL FOR MORE INFORMATION.
10. VENT THRU ROOF -- REFER TO MECHANICAL FOR FURTHER INFORMATION.
11. METAL SOFFIT HALF VENT - 6% OPEN AIR, AT BUILDING A CONCESSIONS OVERHANG AND ALL OF BUILDING B.
12. METAL SOFFIT FULL VENT - 12% OPEN AIR, AT ALL BUILDING A EXCEPT CONCESSIONS OVERHANG.

GENERAL NOTES:

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- G2. ALL NOTES MAY NOT APPLY TO THIS SHEET.
- G3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G4. PROTECT ALL ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G5. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED, AND FINISHED BACK TO EXISTING CONDITION.
- G6. REFER TO MANUFACTURER SPECIFICATIONS, REQUIREMENTS, ETC. FOR PROPER ROOFING INSTALLATION PER ARCHITECTURAL SPECIFICATIONS AND WARRANTY CONDITIONS. ROOFING MATERIAL SHALL BE INSTALLED TO MAINTAIN WARRANTY OF EXISTING ROOFING.
- G7. ALL CURBS, FLASHINGS, ETC. SHALL BE FURNISHED AND INSTALLED TO BE COMPATIBLE WITH THE ROOFING SYSTEM AND AT HEIGHT REQUIRED TO MAINTAIN ROOFING WARRANTY.
- G8. ROOF INSULATION TO BE INSTALLED IN MINIMUM 2 LAYERS -- REFER TO SPECIFICATIONS.

DRAWING NOTES:

1. GABLE END FRAMING TO EXTEND OVERHANG AT NORTH AND SOUTH ENDS OF EXISTING BUILDING B.
2. OVERLAPPED ROOF FRAMING TO THE ADDITION ROOF INTO EXISTING AT BUILDING B.
3. CONTINUOUS RIDGE VENT.

Bidding and Permits: 20 March 2023

Roof Plans



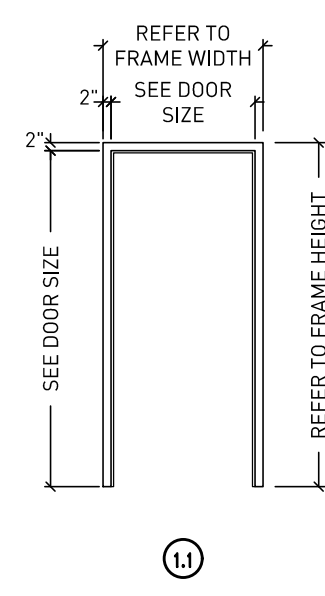
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

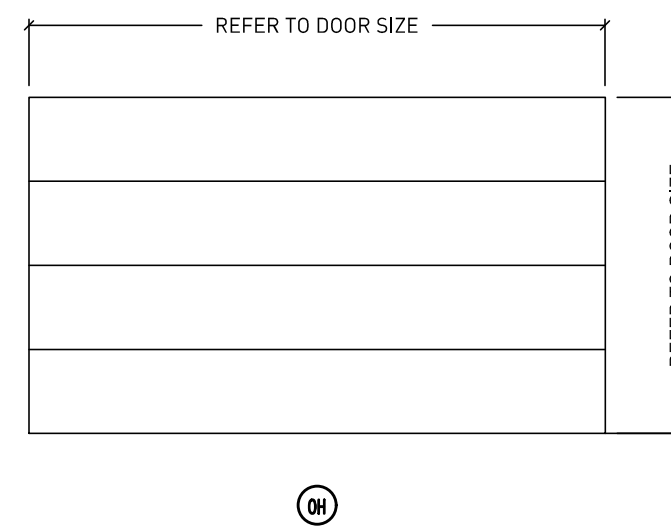
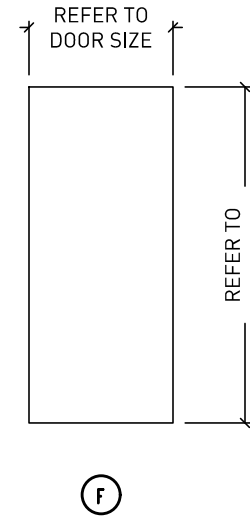
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**DOOR FRAME ELEVATIONS:**



**DOOR ELEVATIONS:**

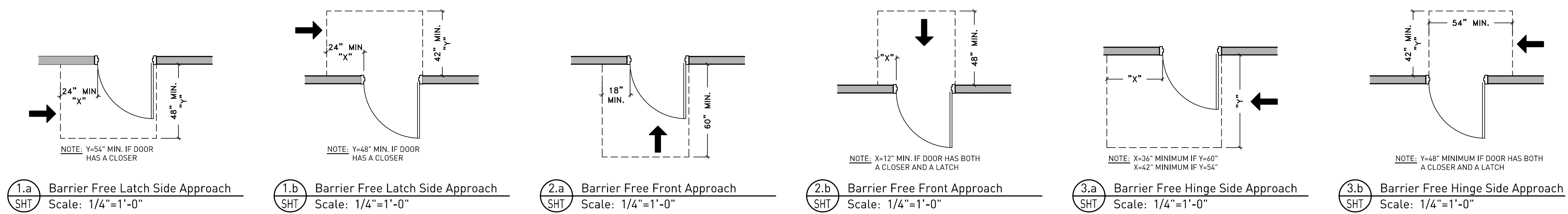


DOOR SCHEDULE BUILDING A																		
DOOR NO.	OPENING LOCATION	FIRE RATING	HARDW. HEADING	LOCK FUNCTION	FRAME INFORMATION							DOOR INFORMATION						
					HARDWARE REMARKS	OPENING WIDTH	OPENING HEIGHT	FRAME ELEV.	JAMB DEPTH	FRAME MATER.	FRAME FINISH	FRAME REMARKS	DOOR SIZE	DOOR THICK.	DOOR ELEV.	DOOR MATER.	DOOR FINISH	DOOR REMARKS
100a	TO MAINTENANCE 100 FROM EXTERIOR		SET #1	STOREROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
100b	TO MAINTENANCE 100 FROM EXTERIOR		SET #1	STOREROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
100c	TO MAINTENANCE 100 FROM EXTERIOR					12'-0"	7'-0"	--	15"	STEEL	PAINT		12'-0" x 7'-0"	2"	OH	STEEL	PREFIN	
100d	TO MAINTENANCE 100 FROM EXTERIOR					8'-0"	7'-0"	--	15"	STEEL	PAINT		8'-0" x 7'-0"	2"	OH	STEEL	PREFIN	
101a	TO EXTERIOR FROM MENS RESTROOM 101		SET #3	RESTROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
101b	TO EXTERIOR FROM MENS RESTROOM 101		SET #3	RESTROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
102	TO EXTERIOR FROM JANITORS CLOSET 102		SET #1	STOREROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
103	TO EXTERIOR FROM CONCESSIONS 103		SET #2	CLASSROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
104a	TO EXTERIOR FROM WOMENS RESTROOM 104		SET #3	RESTROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
104b	TO EXTERIOR FROM WOMENS RESTROOM 104		SET #3	RESTROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
105	TO EXTERIOR FROM MECHANICAL ROOM 105		SET #1	STOREROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
106	TO RESTROOM 106 FROM LOCKER ROOM 107		SET #4	RESTROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
107a	TO EXTERIOR FROM LOCKER ROOM 107		SET #2	CLASSROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
107b	TO EXTERIOR FROM LOCKER ROOM 107		SET #2	CLASSROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
108	TO EXTERIOR FROM STORAGE ROOM 108		SET #1	STOREROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
109	TO EXTERIOR FROM MECHANICAL ROOM 109		SET #1	STOREROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
110	TO EXTERIOR FROM STORAGE ROOM 110		SET #1	STOREROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
111	TO EXTERIOR FROM MECHANICAL ROOM 111		SET #1	STOREROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	

DOOR SCHEDULE BUILDING B																		
DOOR NO.	OPENING LOCATION	FIRE RATING	HARDW. HEADING	LOCK FUNCTION	FRAME INFORMATION							DOOR INFORMATION						
					HARDWARE REMARKS	OPENING WIDTH	OPENING HEIGHT	FRAME ELEV.	JAMB DEPTH	FRAME MATER.	FRAME FINISH	FRAME REMARKS	DOOR SIZE	DOOR THICK.	DOOR ELEV.	DOOR MATER.	DOOR FINISH	DOOR REMARKS
200	TO EXTERIOR FROM LOCKER ROOM 200		SET #2	CLASSROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
201	TO RESTROOM 201 FROM LOCKER ROOM 200		SET #4	RESTROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
202	TO EXTERIOR FROM MECHANICAL ROOM 202		SET #1	STOREROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
203	TO EXTERIOR FROM WOMENS RESTROOM 203		SET #3	RESTROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	
204	TO EXTERIOR FROM MENS RESTROOM 204		SET #3	RESTROOM		3'-4"	7'-2"	1.0	(5-3/4")	HM	PAINT		3'-0" x 7'-0"	(1-3/4")	F	FRP	PREFIN	

WINDOW SCHEDULE						
TAG	OPENING SIZE	WINDOW SIZE (WIDTH x HEIGHT)	WINDOW OPERATION	TOTAL WINDOWS	BASIS OF DESIGN	NOTES
W1	4'-3/8" x 3'-3/8"	4'-0" x 3'-0"	SIDE SLIDING	5	SC-4030	--
						--

HARDWARE SCHEDULE	
HARDWARE SET #1: SINGLE EXTERIOR DOOR - STOREROOM	
ITEM DESCRIPTION	ITEM FINISH
CONTINUOUS HINGE	626
LOCKSET	626
CYLINDER / CORE	626
CLOSER	626
KICKPLATE	626
THRESHOLD	626
WEATHERSTRIPPING	626
HARDWARE SET #2: SINGLE EXTERIOR DOOR - CLASSROOM	
ITEM DESCRIPTION	ITEM FINISH
CONTINUOUS HINGE	626
LOCKSET	626
CYLINDER / CORE	626
CLOSER	626
KICKPLATE	626
THRESHOLD	626
WEATHERSTRIPPING	626
HARDWARE SET #3: SINGLE EXTERIOR DOOR - RESTROOM	
ITEM DESCRIPTION	ITEM FINISH
CONTINUOUS HINGE	626
PUSH/PULL	626
DEADLOCK	626
CLOSER	626
KICKPLATE	626
THRESHOLD	626
WEATHERSTRIPPING	626
HARDWARE SET #4: SINGLE INTERIOR DOOR - RESTROOM	
ITEM DESCRIPTION	ITEM FINISH
CONTINUOUS HINGE	626
PUSH/PULL	626
DEADLOCK	626
CLOSER	626
KICKPLATE	626



**LEGEND:**

- FRP FIBERGLASS REINFORCED POLYMER
- HM HOLLOW METAL
- PREFIN PREFINISHED

**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. PROVIDE PERIMETER SEALANT AROUND INTERIOR AND EXTERIOR SIDES OF DOOR FRAMES.
- G3. CONTRACTOR TO FIELD VERIFY ALL EXISTING OPENING DIMENSIONS.

**LOCK FUNCTION NOTES:**

- CLASSROOM: SIMILAR TO SCHLAGE L9050.
- RESTROOM: SIMILAR TO SCHLAGE L443 DEADBOLT (DOOR CAN BE UNLOCKED FROM INSIDE, BUT NOT LOCKED)
- STOREROOM: --

**GENERAL HARDWARE NOTES:**

- GHN1. LOCK FUNCTIONS INDICATED ARE APPROXIMATE. FINAL LOCK FUNCTION, ETC. TO BE DETERMINED AT SPECIAL MEETING WITH OWNER AND HARDWARE SUPPLIER SPECIFICALLY INTENDED FOR THAT PURPOSE - REFER TO SPECIFICATIONS.

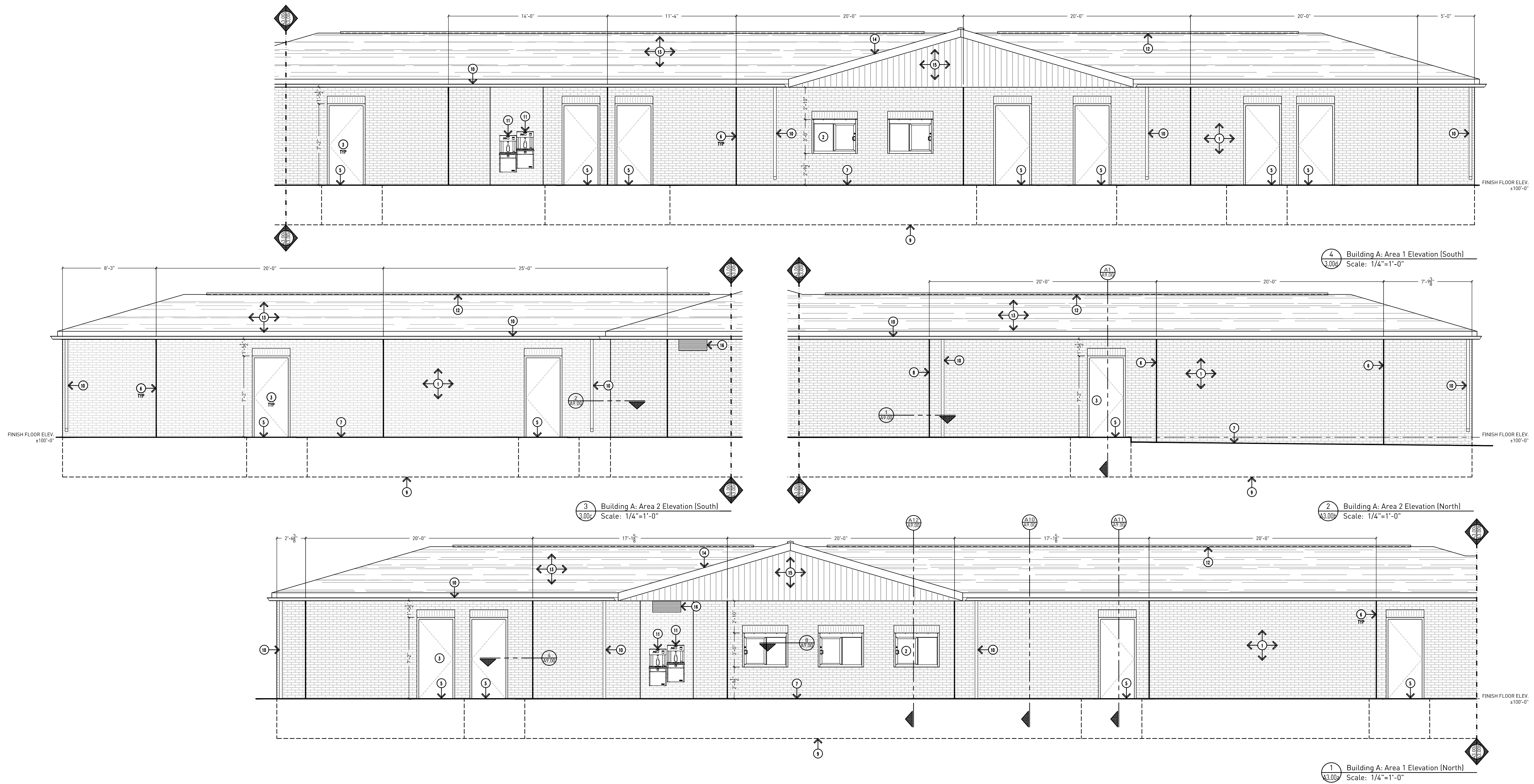
**GENERAL DOOR NOTES:**

- GD1. COORDINATE DIMENSIONS WITH MANUFACTURER.
- GD2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**Window and Door Schedules**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements



**DRAWING NOTES CONTINUED:**

- 15. VERTICAL ALUMINUM SIDING - REFER TO SPECIFICATIONS.
- 16. TRANSFER GRILLE - REFER TO MECHANICAL.
- 17. SECTIONAL OVERHEAD DOOR WITH ELECTRIC OPERATOR - REFER TO SPECIFICATIONS.

**DRAWING NOTES:**

- 2. SIDE SLIDING SERVING WINDOW WITH AUTOMATIC CLOSING AND LOCKING - REFER TO WINDOW SCHEDULE AND SPECIFICATIONS FOR FURTHER INFORMATION.
- 3. DOOR, FRAME, HARDWARE, AND FINISH - REFER TO DOOR SCHEDULE AND SPECIFICATIONS FOR FURTHER INFORMATION.
- 4. PREFINISHED ALUMINUM SILL.
- 5. FROST SLAB.
- 6. BRICK EXPANSION JOINT - PROVIDE JOINTS PER MIN. RECOMMENDATIONS. MAX 20 FT O.C. TYP. CORNER JOINTS TO BE 20 FT APART MAX WITH ONE OF THE JOINTS AT LEAST 4" AND NOT MORE THAN 10 FT FROM THE CORNER.
- 7. APPROXIMATE LINE OF GRADE.
- 8. CONTROL JOINT BETWEEN BUILDINGS.
- 9. LINE OF FOUNDATION - REFER TO STRUCTURAL DRAWINGS.
- 10. GUTTERS AND DOWNSPOUTS.
- 11. ELECTRIC WATER COOLER WITH BOTTLE FILLER MOUNTED PER BARRIER FREE REQUIREMENTS. REFER TO MECHANICAL DRAWINGS.
- 12. RIDGE VENT.
- 13. ASPHALT SHINGLES.
- 14. FASCIA.

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- G5. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED, AND FINISHED BACK TO EXISTING CONDITION.
- G6. PROVIDE CONTINUOUS VAPOR AND AIR BARRIER PRIOR TO INSTALLATION OF RIGID AND/OR SPRAY INSULATION. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE BUILDING ENVELOPE AND INCLUDES ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
- G7. PROVIDE BRICK EXPANSION JOINTS WITH SEALANT AND BACKER ROD PER MASONRY INSTITUTE RECOMMENDATIONS.
- G8. PROVIDE SEALANT AND FOAM BACKER ROD TO SUIT CONDITIONS AROUND ALL WINDOW AND DOOR OPENINGS/PERIMETER.
- G9. REFER TO STRUCTURAL DRAWINGS FOR ANY STEPPED FOOTING LOCATION, ETC.
- G10. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH APPLICABLE MANUFACTURERS.

**DRAWING NOTES:**

- 1. 4" BRICK VENEER TO MATCH EXISTING (INSTALL HEADER COURSE EVERY 6 ROWS OF BRICK) -- COLOR TO BE BELDEN BRICK "1-HB".

Bidding and Permits: 20 March 2023

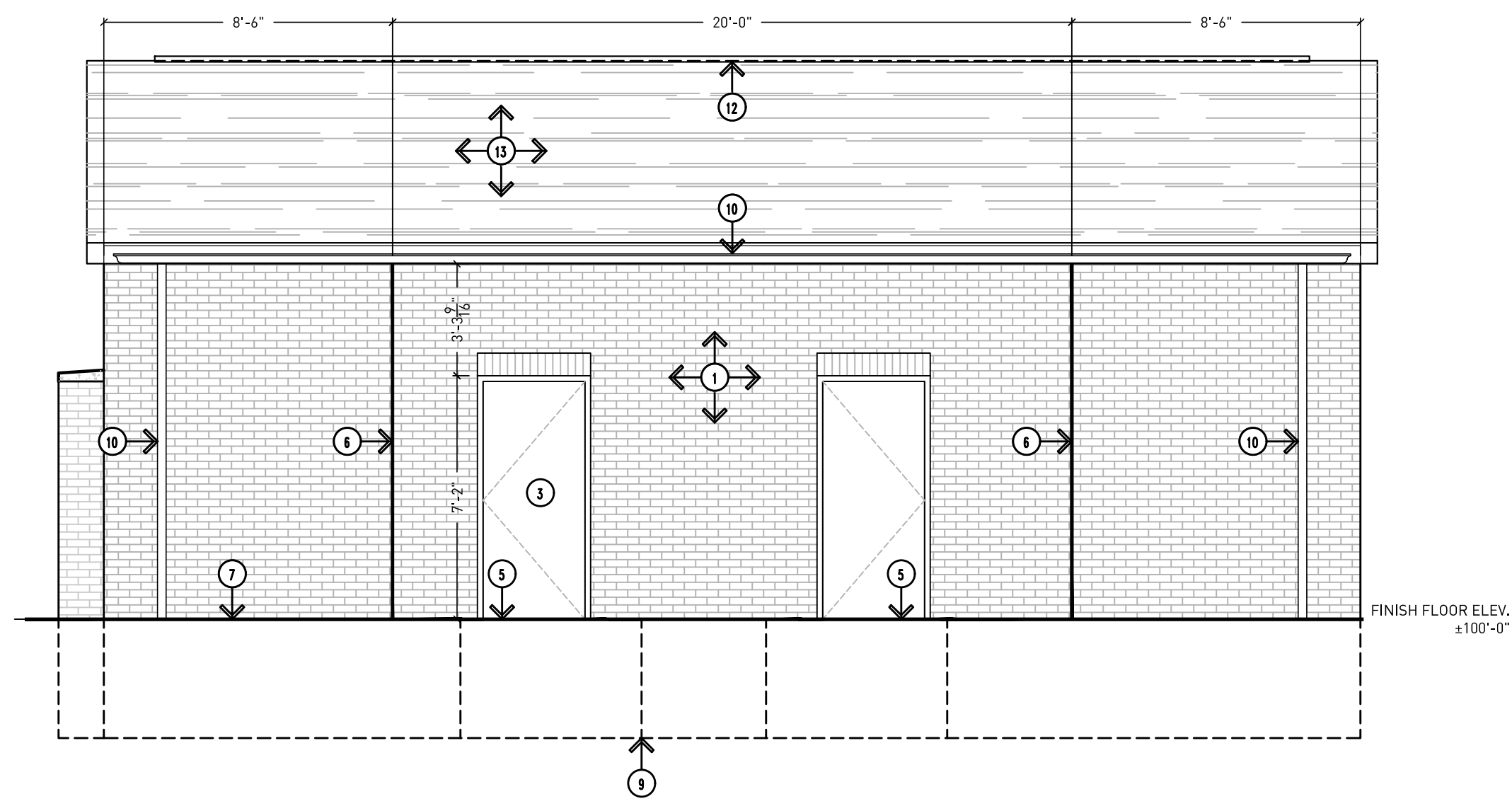
**Exterior Elevations**



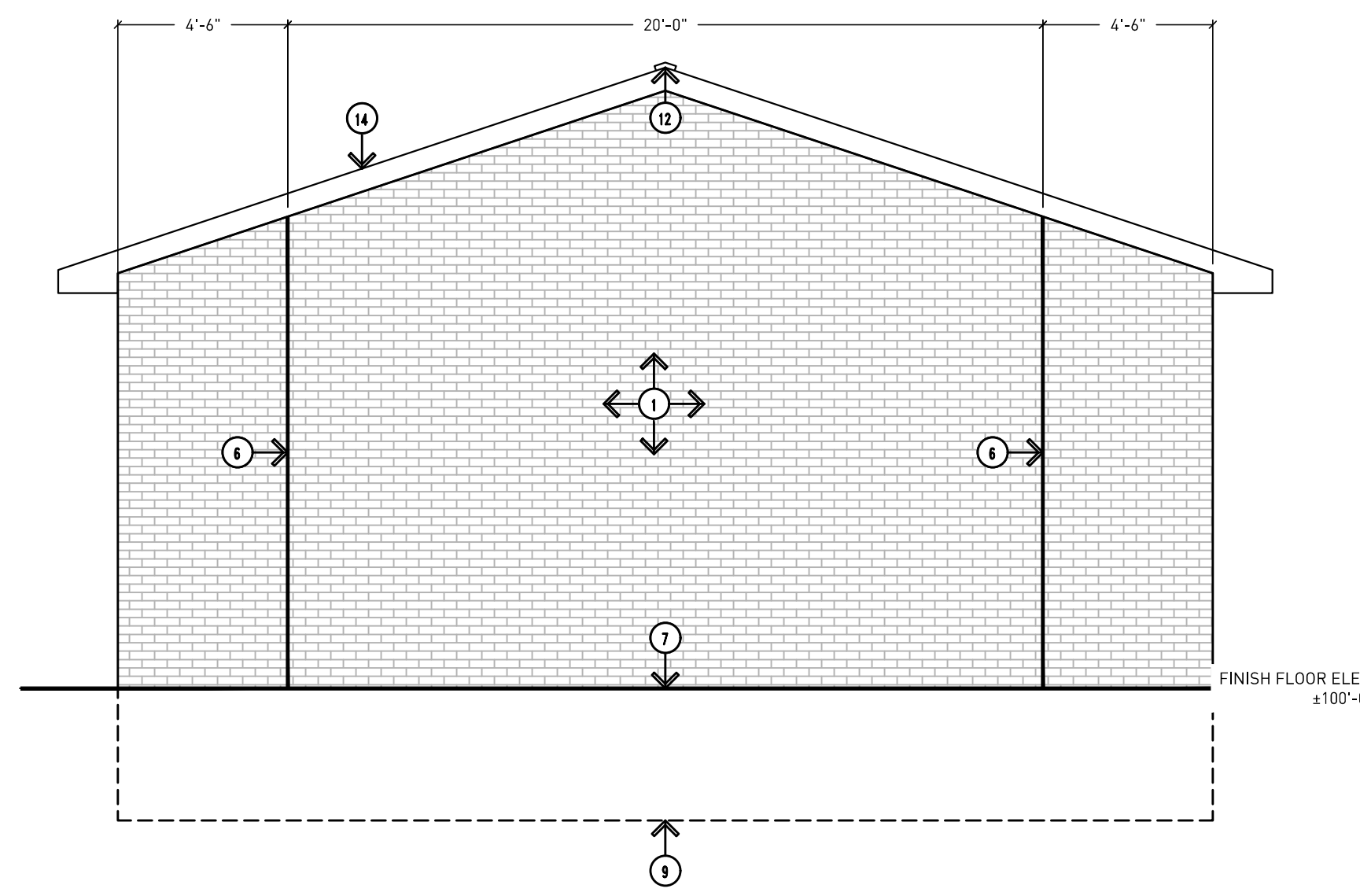
Crestwood School District  
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Field Building & Site Improvements

Project No. 5622

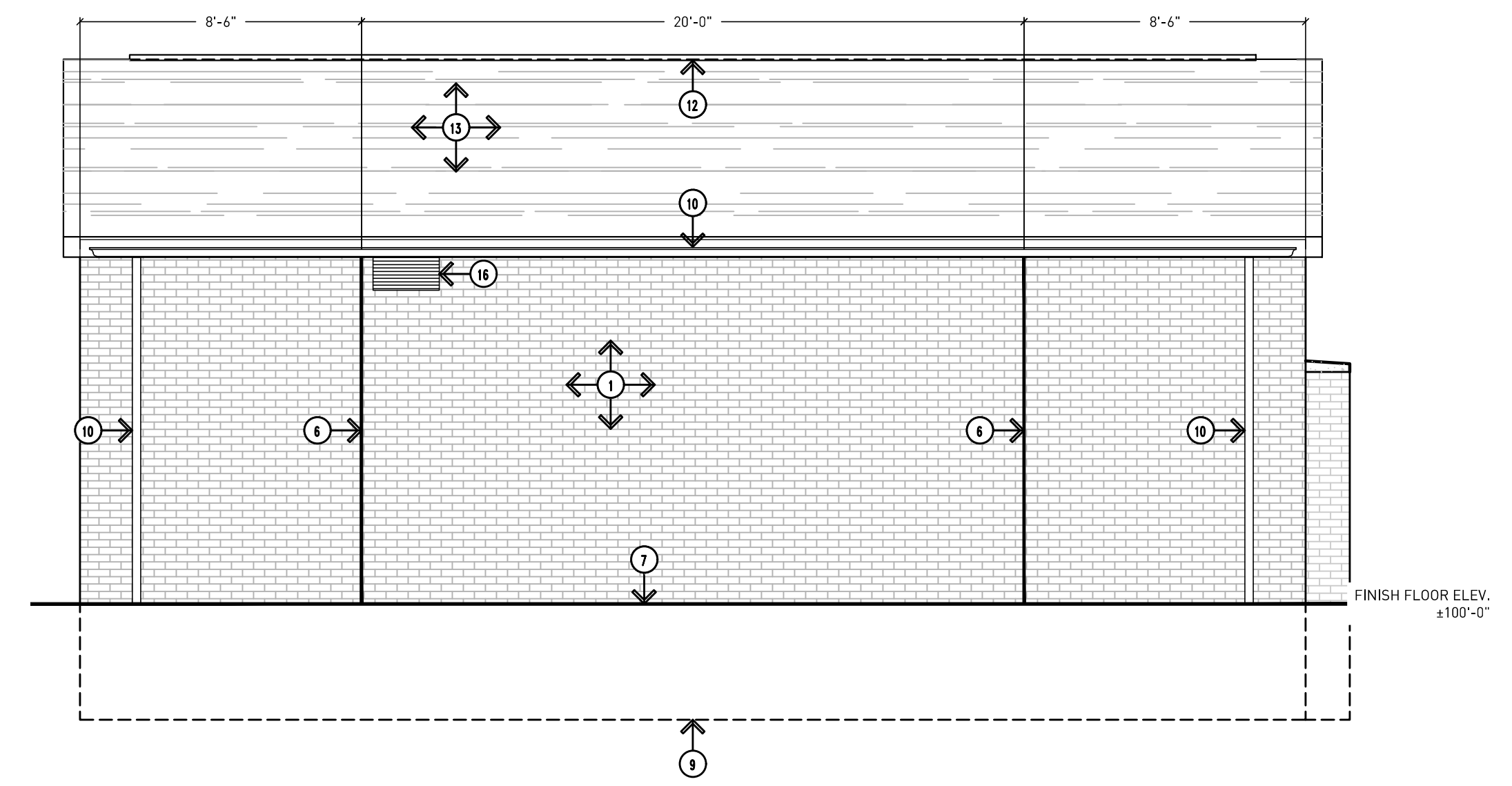
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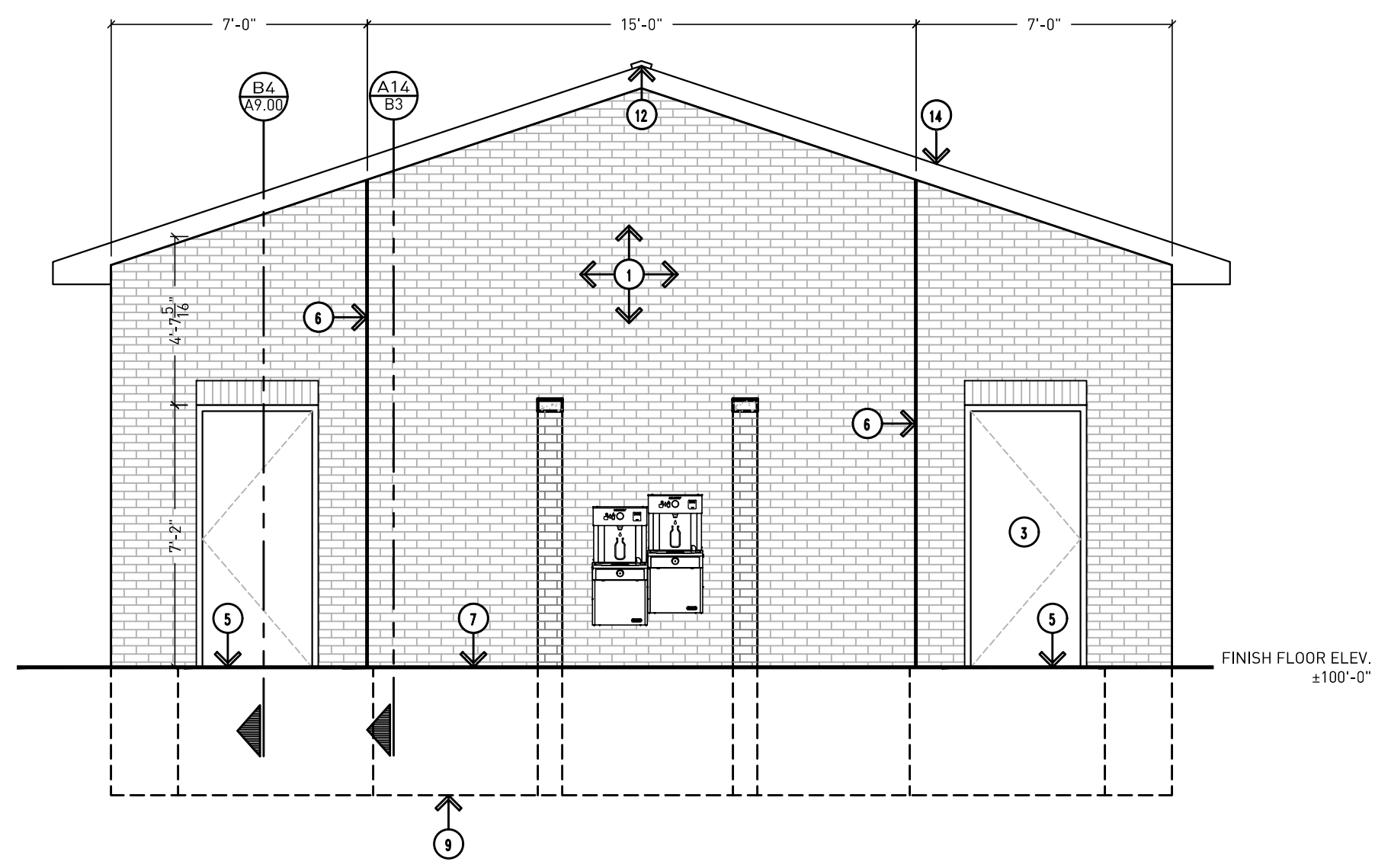
6 Building B Elevation (West)  
3.01 Scale: 1/4"=1'-0"



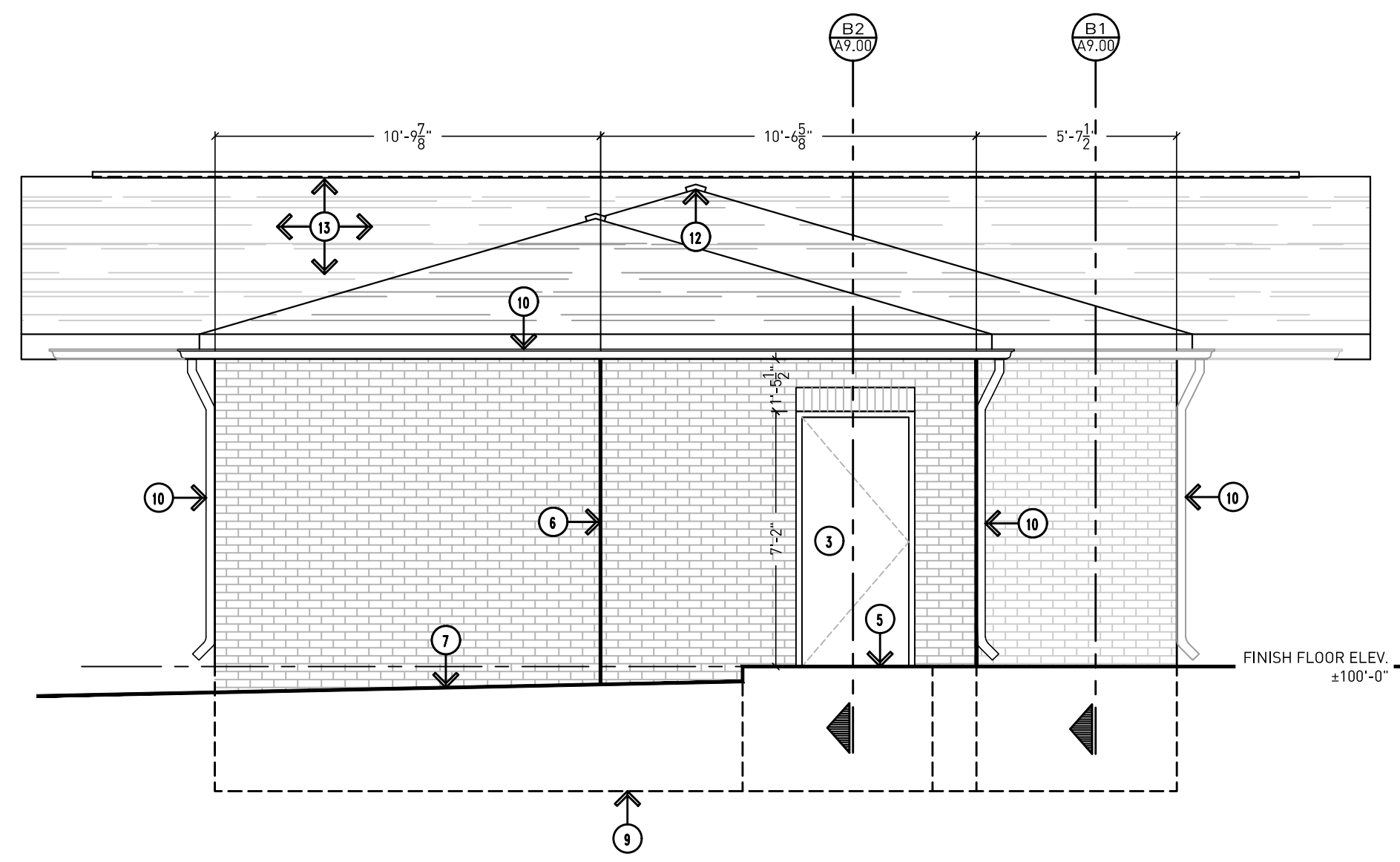
5 Building B Elevation (South)  
3.01 Scale: 1/4"=1'-0"



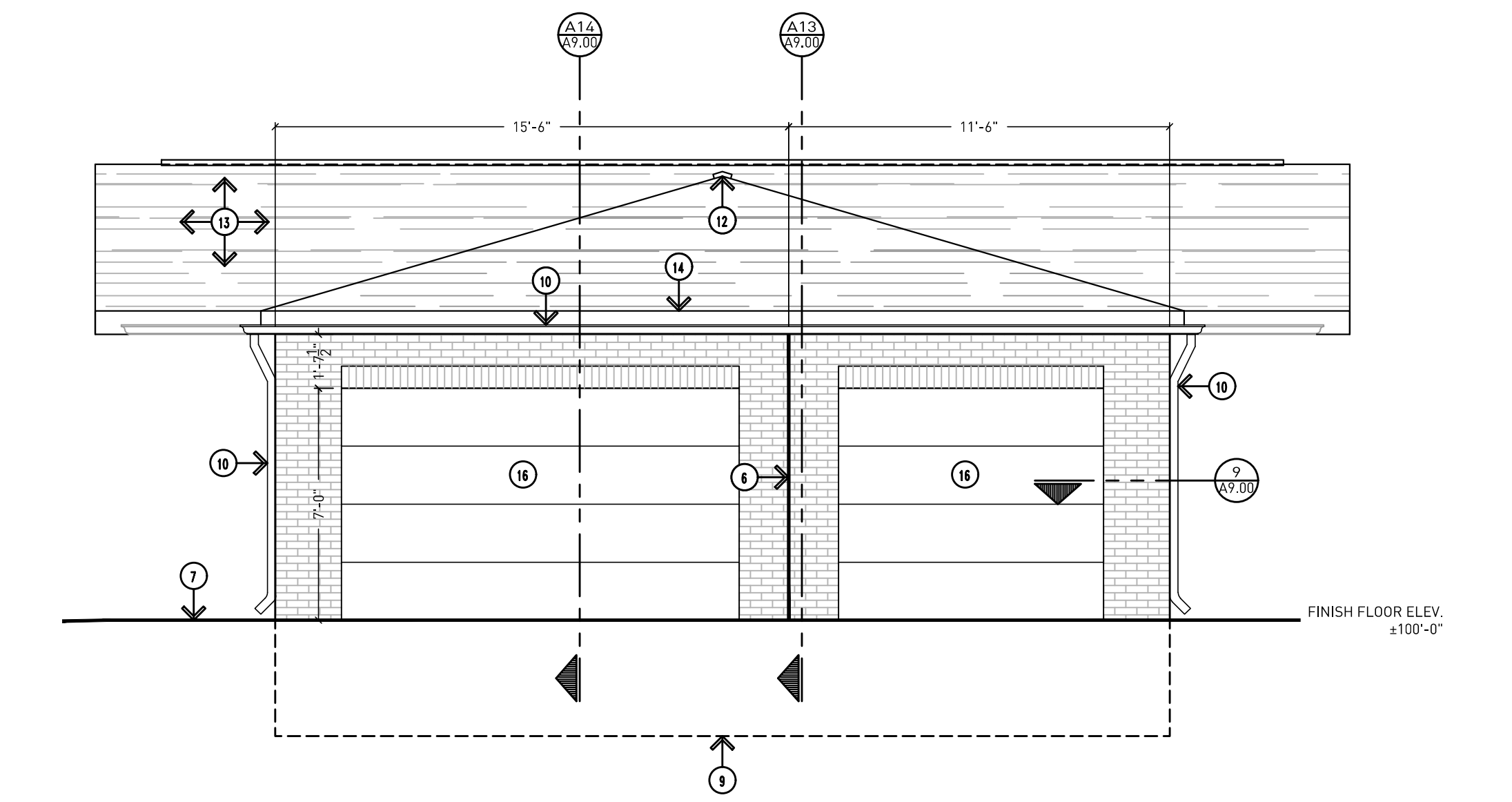
4 Building B Elevation (East)  
3.01 Scale: 1/4"=1'-0"



3 Building B Elevation (North)  
3.01 Scale: 1/4"=1'-0"



2 Building A Elevation (West)  
3.01 Scale: 1/4"=1'-0"



1 Building A Elevation (East)  
3.01 Scale: 1/4"=1'-0"

**DRAWING NOTES CONTINUED:**

- 15. VERTICAL ALUMINUM SIDING - REFER TO SPECIFICATIONS.
- 16. TRANSFER GRILLE - REFER TO MECHANICAL.
- 17. SECTIONAL OVERHEAD DOOR WITH ELECTRIC OPERATOR - REFER TO SPECIFICATIONS.

**DRAWING NOTES:**

- 2. SIDE SLIDING SERVING WINDOW WITH AUTOMATIC CLOSING AND LOCKING - REFER TO WINDOW SCHEDULE AND SPECIFICATIONS FOR FURTHER INFORMATION.
- 3. DOOR, FRAME, HARDWARE, AND FINISH - REFER TO DOOR SCHEDULE AND SPECIFICATIONS FOR FURTHER INFORMATION.
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- 5. FROST SLAB.
- 6. BRICK EXPANSION JOINT - PROVIDE JOINTS PER MIN. RECOMMENDATIONS, MAX 20 FT O.C. TYP. CORNER JOINTS TO BE 20 FT APART MAX WITH ONE OF THE JOINTS AT LEAST 4" AND NOT MORE THAN 10 FT FROM THE CORNER.
- 7. APPROXIMATE LINE OF GRADE.
- 8. CONTROL JOINT BETWEEN BUILDINGS.
- 9. LINE OF FOUNDATION - REFER TO STRUCTURAL DRAWINGS.
- 10. GUTTERS AND DOWNSPOUTS.
- 11. ELECTRIC WATER COOLER WITH BOTTLE FILLER MOUNTED PER BARRIER FREE REQUIREMENTS. REFER TO MECHANICAL DRAWINGS.
- 12. RIDGE VENT.
- 13. ASPHALT SHINGLES.
- 14. FASCIA.

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- G5. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED, AND FINISHED BACK TO EXISTING CONDITION.
- G6. PROVIDE CONTINUOUS VAPOR AND AIR BARRIER PRIOR TO INSTALLATION OF RIGID AND/OR SPRAY INSULATION. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE BUILDING ENVELOPE AND INCLUDES ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
- G7. PROVIDE BRICK EXPANSION JOINTS WITH SEALANT AND BACKER ROD PER MASONRY INSTITUTE RECOMMENDATIONS.
- G8. PROVIDE SEALANT AND FOAM BACKER ROD TO SUIT CONDITIONS AROUND ALL WINDOW AND DOOR OPENINGS/PERIMETER.
- G9. REFER TO STRUCTURAL DRAWINGS FOR ANY STEPPED FOOTING LOCATION, ETC.
- G10. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH APPLICABLE MANUFACTURERS.

**DRAWING NOTES:**

- 1. 4" BRICK VENEER TO MATCH EXISTING (INSTALL HEADER COURSE EVERY 6 ROWS OF BRICK) -- COLOR TO BE BELDEN BRICK "1-HB".

Bidding and Permits: 20 March 2023

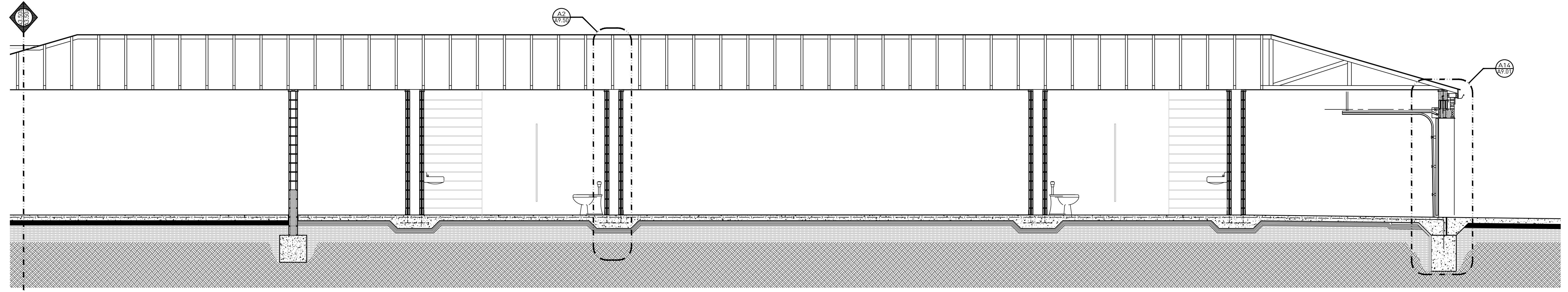
**Exterior Elevations**



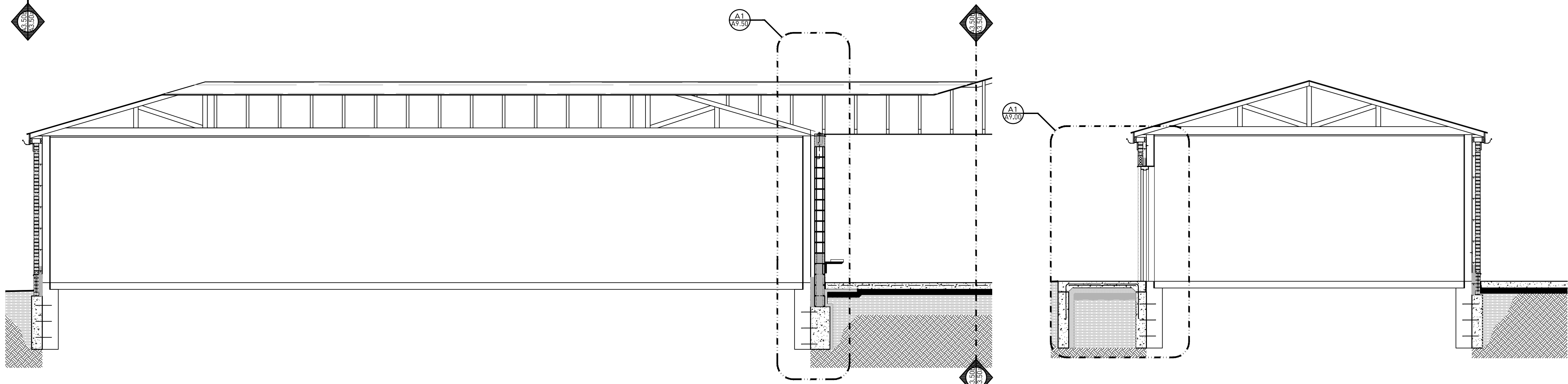
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

A3.01

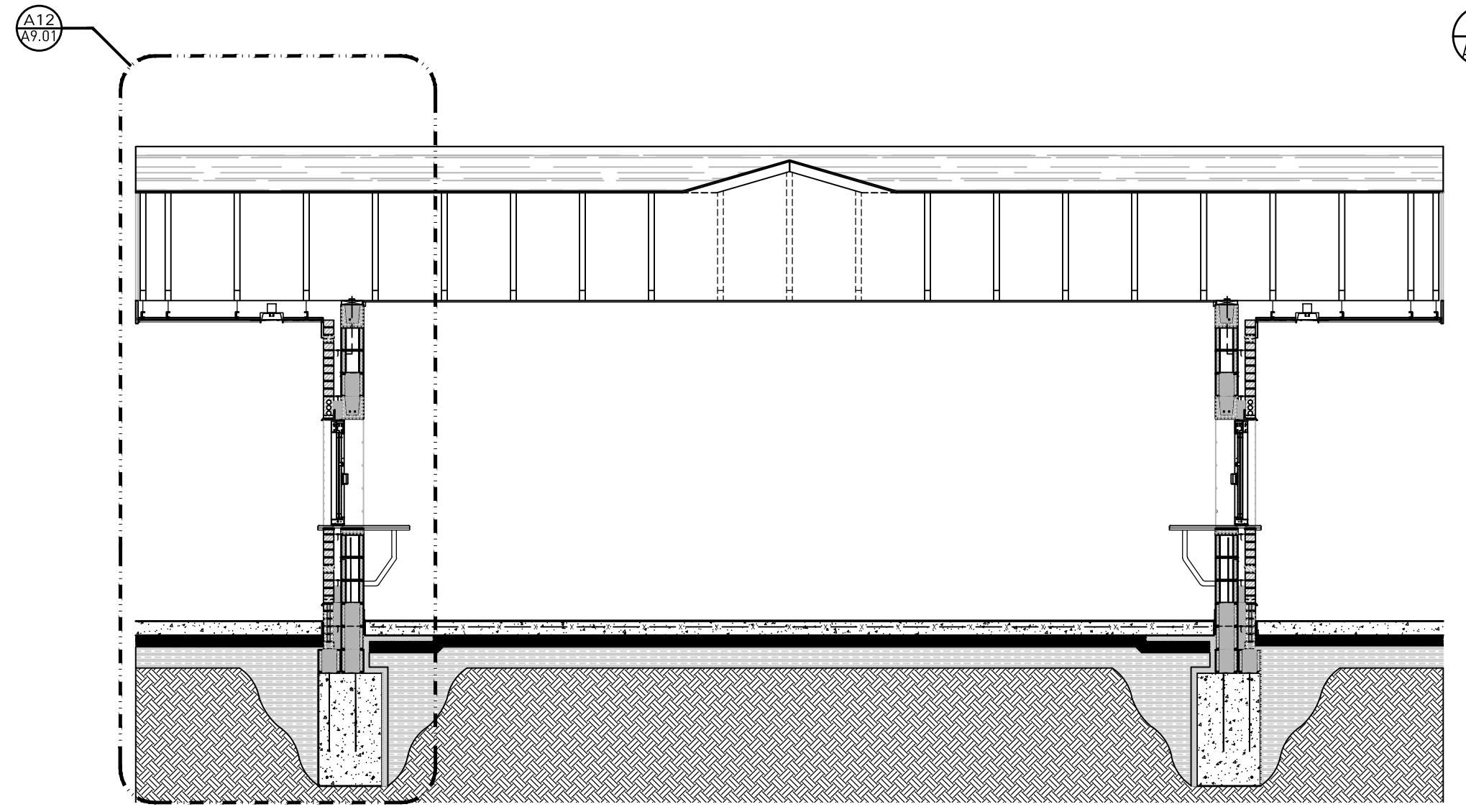


5 Building A: Area 1 Cross Section (E/W)  
Scale: 1/4"=1'-0"

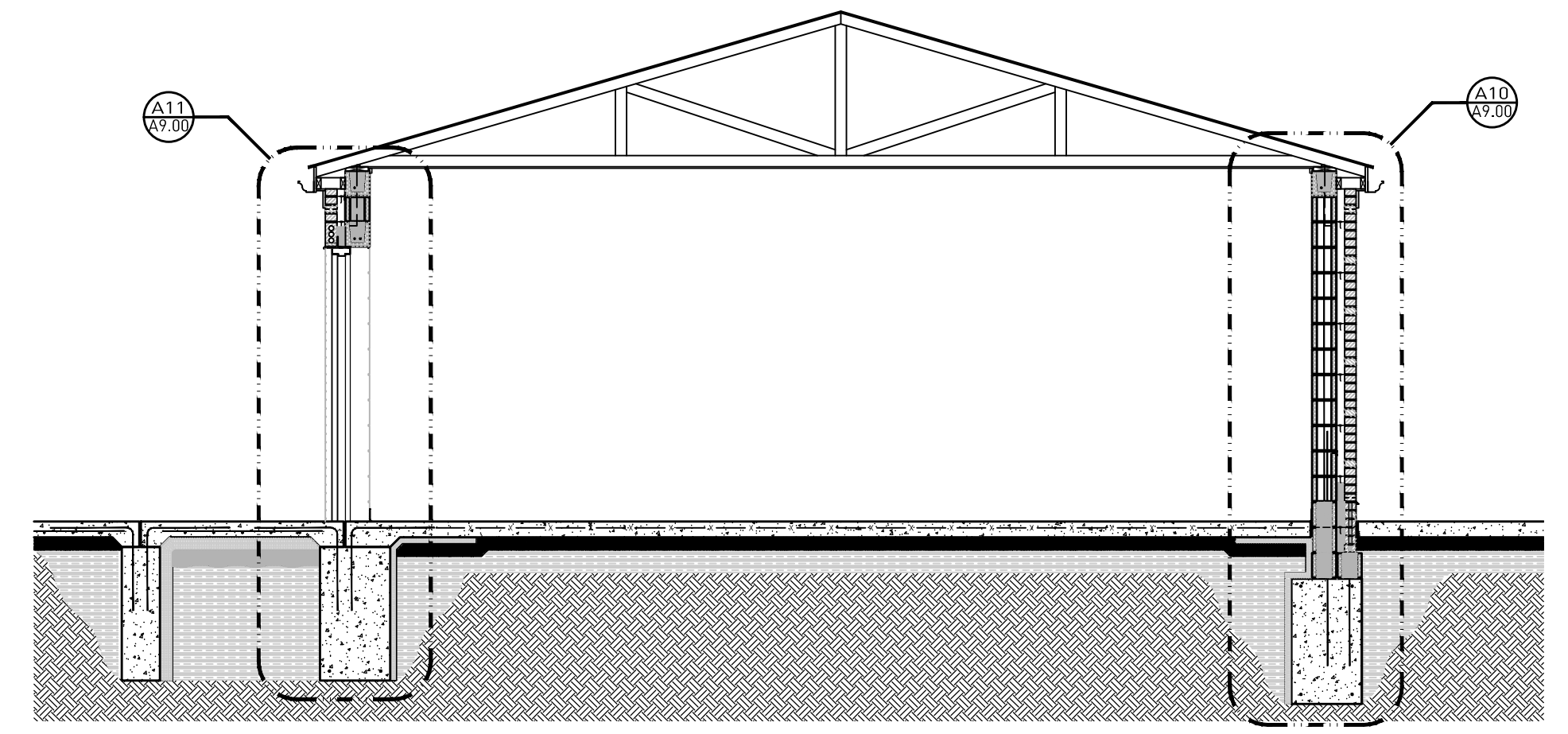


4 Building A: Area 2 Cross Section (E/W)  
Scale: 1/4"=1'-0"

3 Building A: Area 2 Cross Section (N/S)  
Scale: 1/4"=1'-0"



2 Building A: Area 1 Cross Section (N/S)  
Scale: 1/4"=1'-0"



1 Building A: Area 1 Cross Section (N/S)  
Scale: 1/4"=1'-0"

**GENERAL NOTES:**

61. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

Bidding and Permits: 20 March 2023

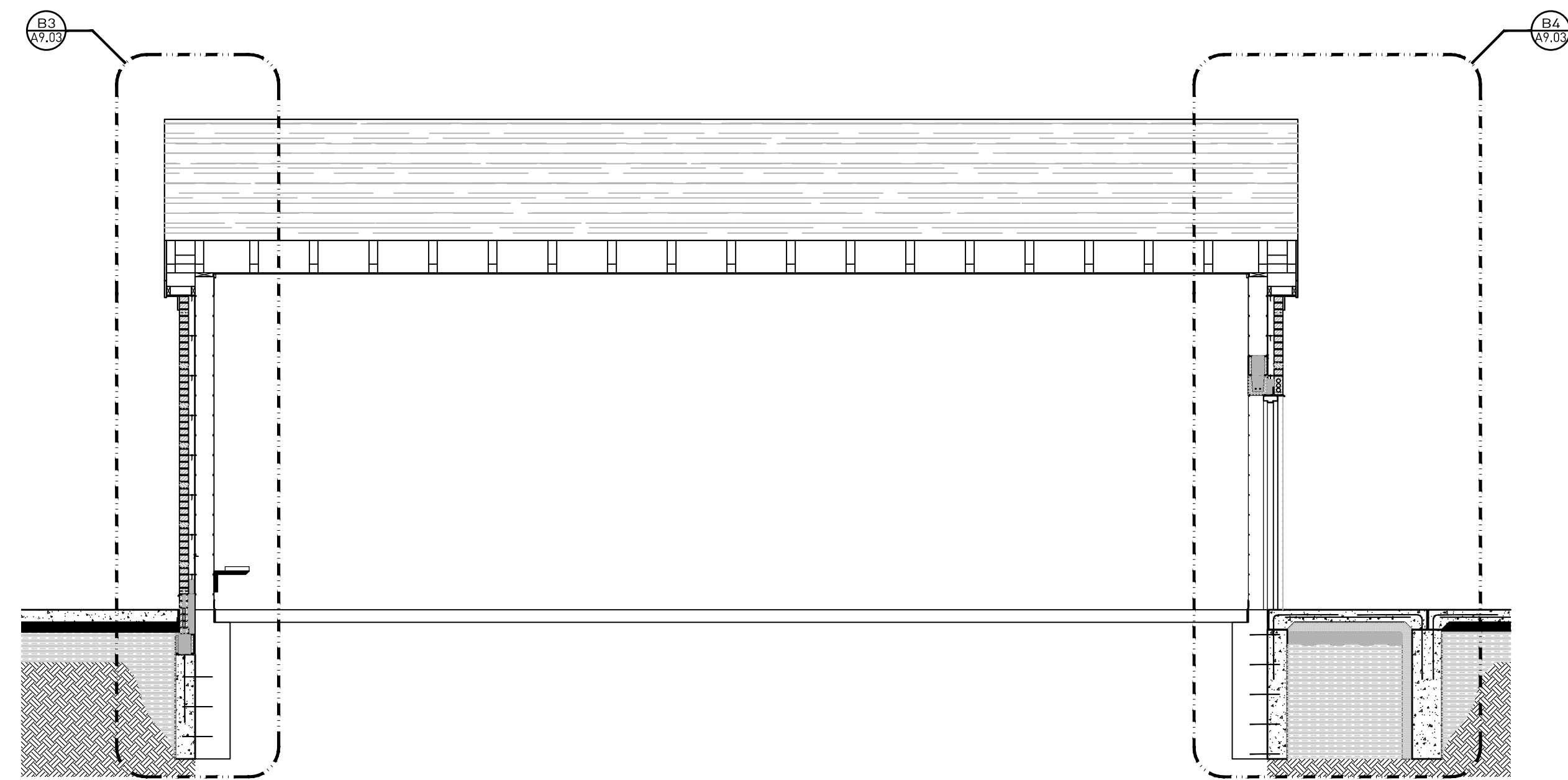
**Building Sections - Building A**



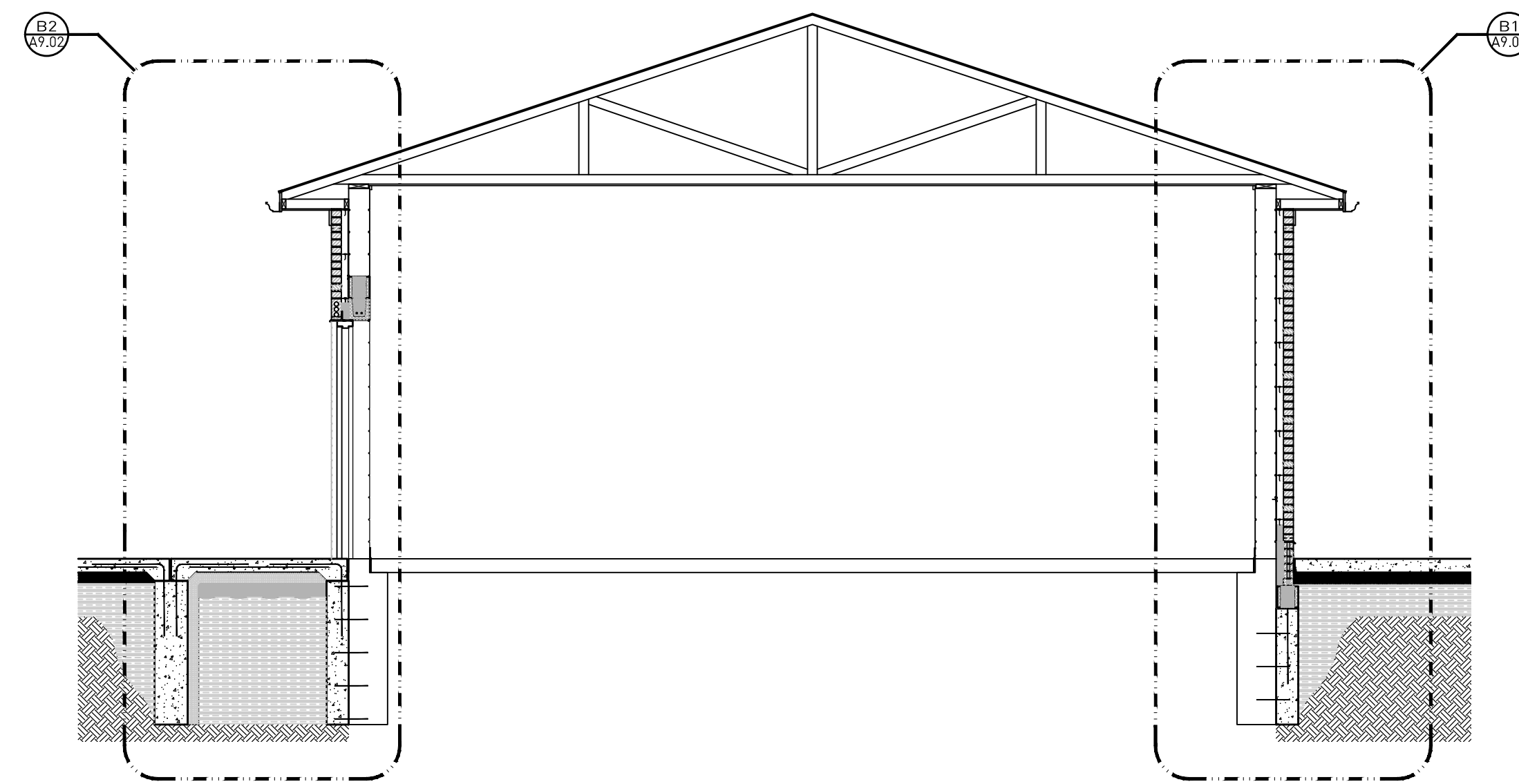
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

A3.50



2 Building B: Cross Section (E/W)  
Scale: 1/4"=1'-0"



1 Building B: Cross Section (N/S)  
Scale: 1/4"=1'-0"

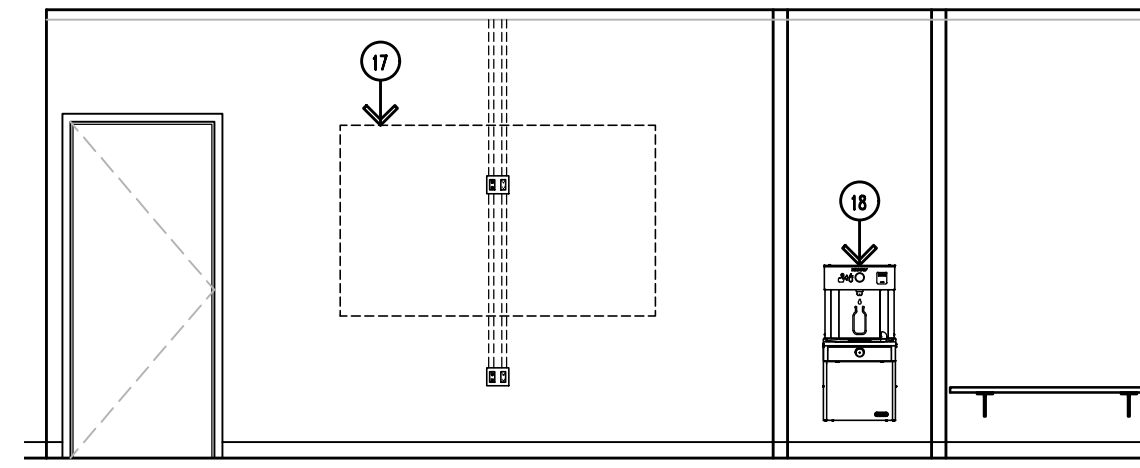
GENERAL NOTES:

01. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

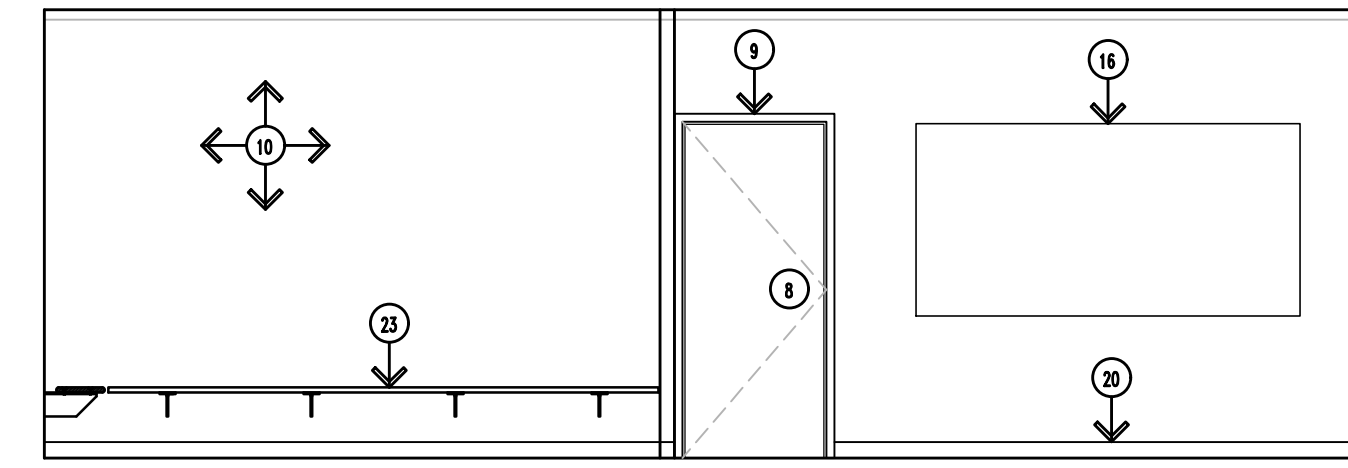
Building Sections - Building B



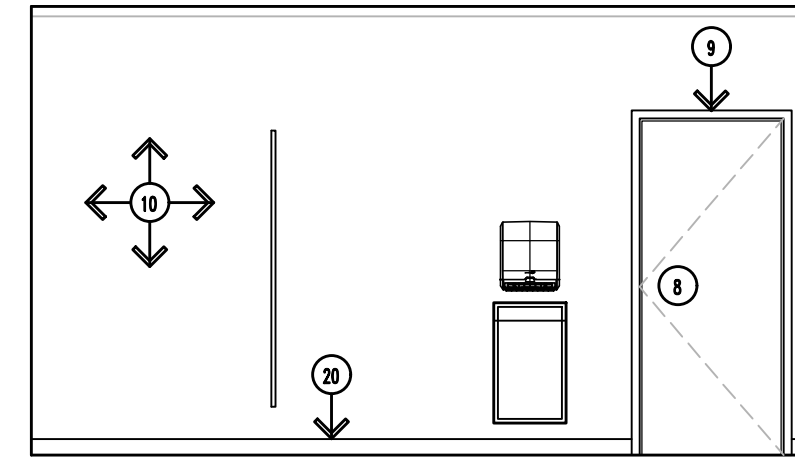
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements



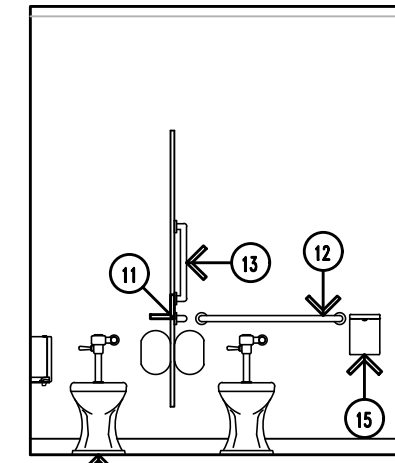
15 Building A Locker Room East Wall  
Scale: 1/4"=1'-0"  
REFER TO 14/A5.00 FOR SIMILAR NOTES



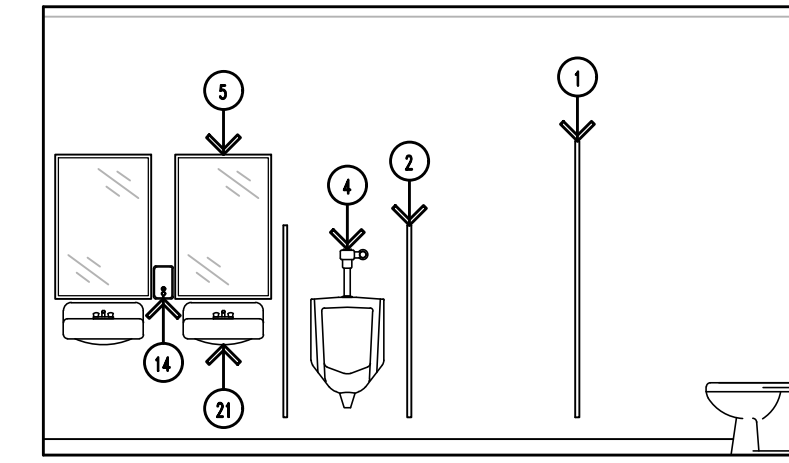
14 Building A Locker Room North Wall  
Scale: 1/4"=1'-0"



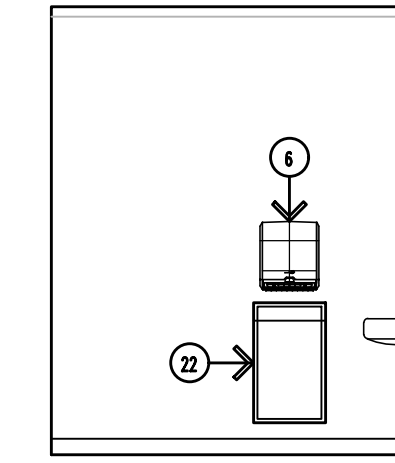
13 Building A Locker Room Restroom West Wall  
Scale: 1/4"=1'-0"



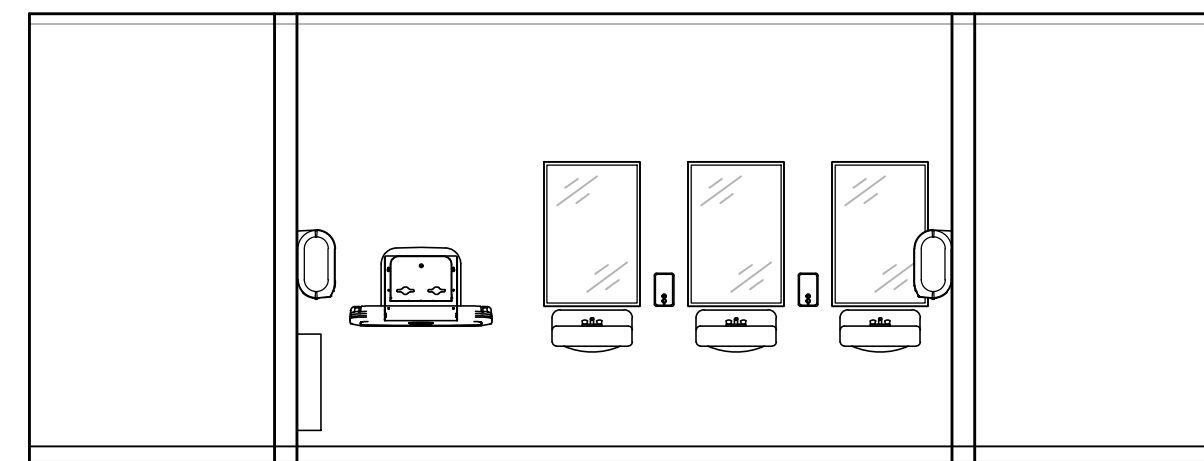
12 Building A Locker Room Restroom South Wall  
Scale: 1/4"=1'-0"



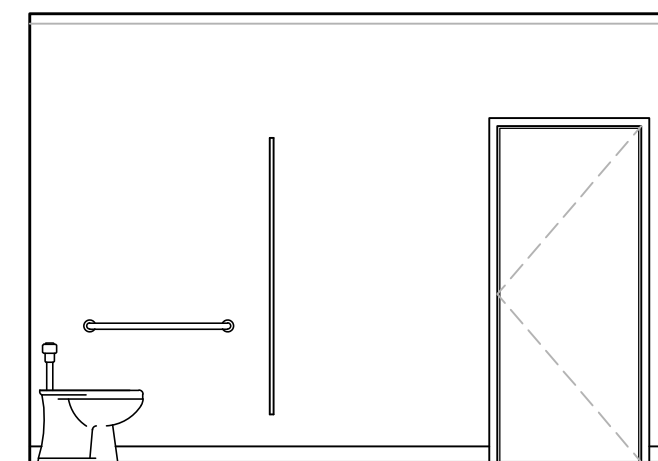
11 Building A Locker Room Restroom East Wall  
Scale: 1/4"=1'-0"



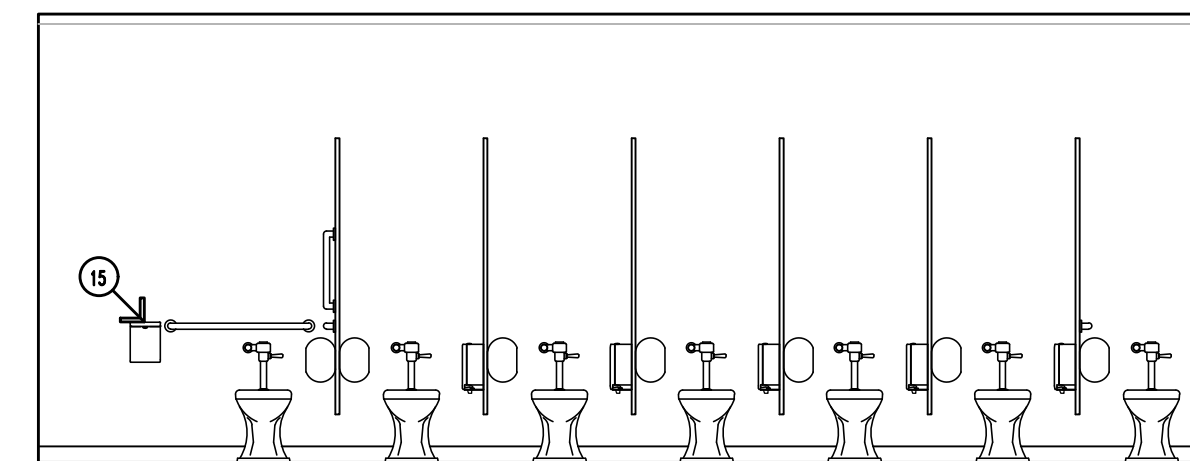
10 Building A Locker Room Restroom North Wall  
Scale: 1/4"=1'-0"



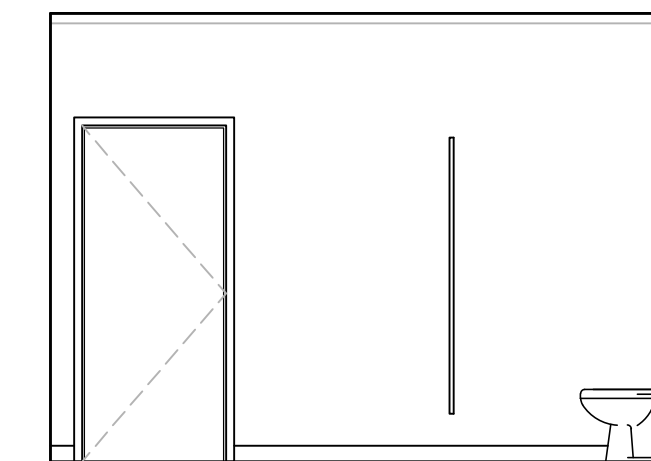
9 Building A Women's Restroom West Wall  
Scale: 1/4"=1'-0"  
REFER TO 2/A5.00 FOR SIMILAR NOTES



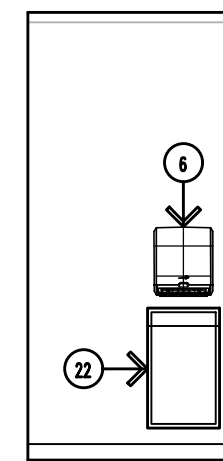
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Scale: 1/4"=1'-0"  
REFER TO 1/A5.00 FOR SIMILAR NOTES



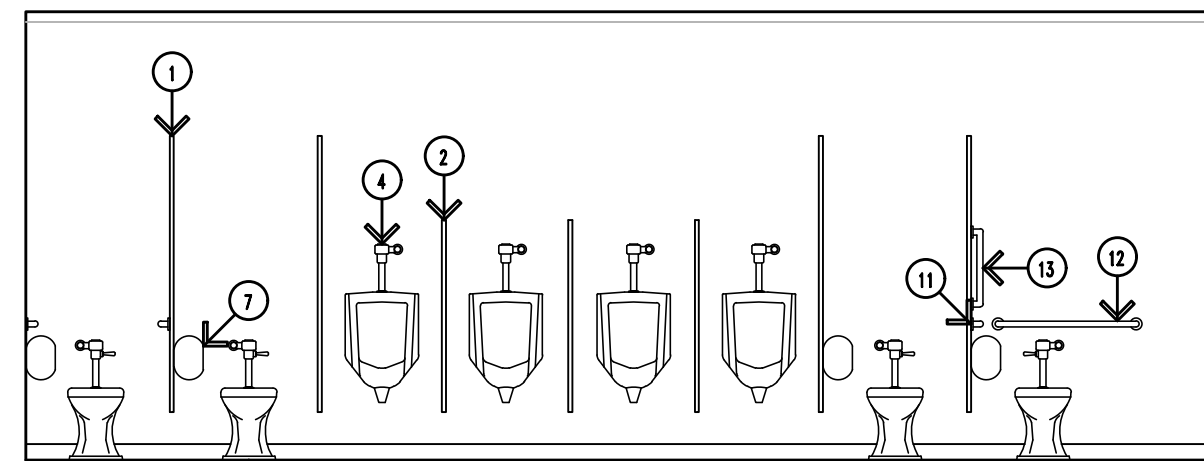
7 Building A Women's Restroom East Wall  
Scale: 1/4"=1'-0"  
REFER TO 4/A5.00 FOR SIMILAR NOTES



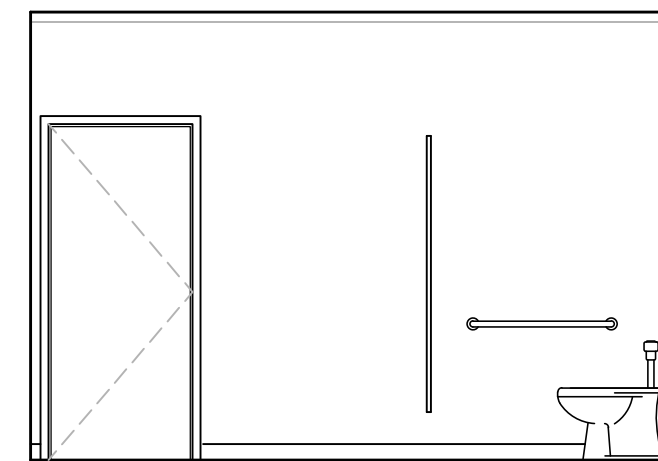
6 Building A Women's Restroom North Wall  
Scale: 1/4"=1'-0"  
REFER TO 1/A5.00 FOR SIMILAR NOTES



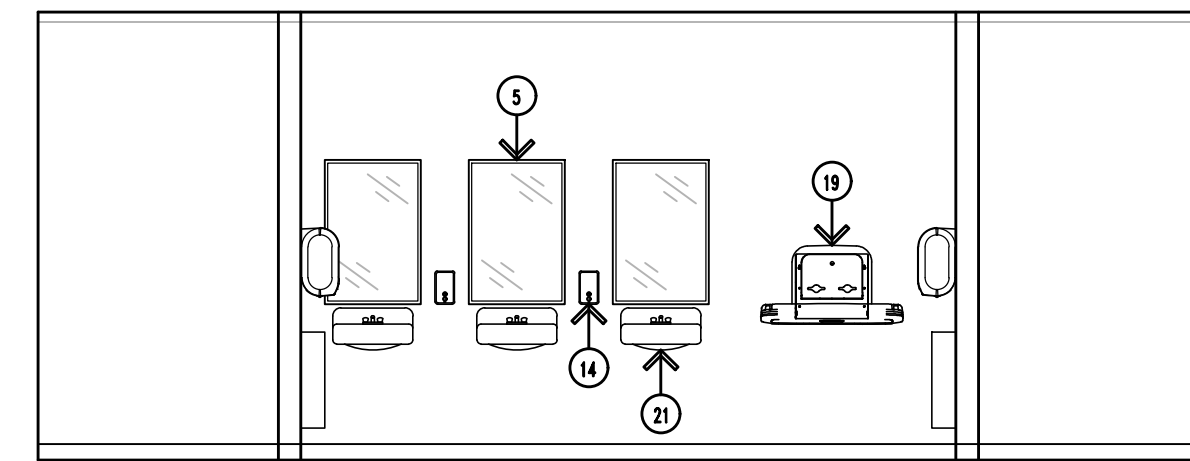
5 Building A Restroom Wingwall  
Scale: 1/4"=1'-0"  
NOTE: ALL RESTROOMS SIMILAR



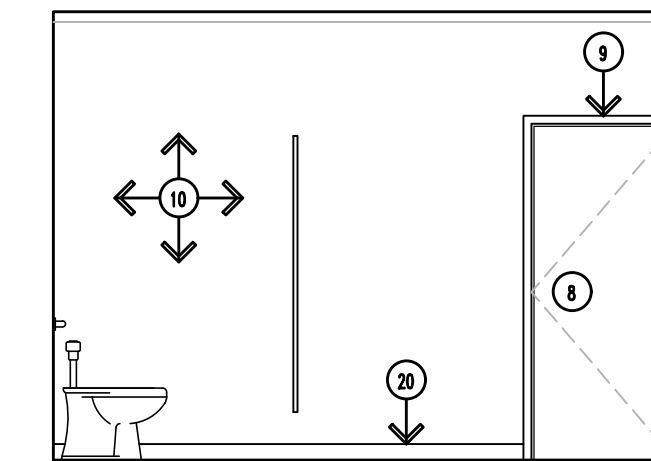
4 Building A Men's Restroom West Wall  
Scale: 1/4"=1'-0"



3 Building A Men's Restroom South Wall  
Scale: 1/4"=1'-0"  
REFER TO 1/A5.00 FOR SIMILAR NOTES



2 Building A Men's Restroom East Wall  
Scale: 1/4"=1'-0"



1 Building A Men's Restroom North Wall  
Scale: 1/4"=1'-0"

**DRAWING NOTES CONTINUED:**

- 10. PAINTED CMU WALL - REFER TO FINISH / MATERIALS SCHEDULE
- 11. 42" STAINLESS STEEL GRAB BAR MOUNTED PER ADA REQUIREMENTS - REFER TO A0.00 & SPECIFICATIONS FOR FURTHER INFORMATION.
- 12. 36" STAINLESS STEEL GRAB BAR MOUNTED PER ADA REQUIREMENTS - REFER TO A0.00 & SPECIFICATIONS FOR FURTHER INFORMATION.
- 13. 18" STAINLESS STEEL GRAB BAR MOUNTED PER ADA REQUIREMENTS - REFER TO A0.00 & SPECIFICATIONS FOR FURTHER INFORMATION.
- 14. WALL MOUNTED SOAP DISPENSER - REFER TO SPECIFICATIONS.
- 15. SANITARY NAPKIN DISPOSAL MOUNTED PER BARRIER FREE REQUIREMENTS.
- 16. WHITE BOARD REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 17. APPROXIMATE LOCATION OF INTERACTIVE FLAT PANEL - FURNISHED AND INSTALLED BY TECHNOLOGY VENDOR.
- 18. ELECTRIC WATER COOLER WITH BOTTLE FILLER.
- 19. WALL MOUNTED CHANGING TABLE - REFER TO SPECIFICATIONS.
- 20. WALL BASE.
- 21. WALL-MOUNTED LAVATORY.
- 22. WALL MOUNTED TRASH RECEPTACLE.
- 23. LOCKER ROOM BENCH.

**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

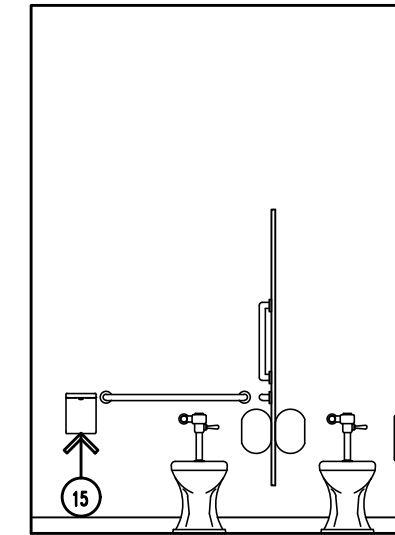
**DRAWING NOTES:**

- 1. FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET COMPARTMENT WITH DOOR, HINGES, SLIDE LATCH, DOOR PULL, COAT HOOK, ETC. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 2. WALL MOUNTED, PLASTIC URINAL SCREEN WITH CONTINUOUS WALL BRACKET. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. PROVIDE PILASTER AT FREE END FOR SUPPORT.
- 3. FLOOR MOUNTED TOILET WITH AUTOMATIC FLUSH VALVE, MOUNTED WITH RIM AT 17" A.F.F. (MAXIMUM). REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 4. WALL MOUNTED URINAL WITH AUTOMATIC FLUSH VALVE, MOUNTED WITH RIM AT 17" A.F.F. (MAXIMUM). REFER TO MECHANICAL FOR FURTHER INFORMATION. PROVIDE CONCEALED CARRIER WITH TUBE STEEL SUPPORT LEGS.
- 5. WALL MOUNTED MIRROR - REFER TO SPECIFICATIONS.
- 6. WALL MOUNTED PAPER TOWEL DISPENSER - REFER TO SPECIFICATIONS.
- 7. TOILET TISSUE DISPENSER MOUNTED PER BARRIER FREE REQUIREMENTS.
- 8. DOOR - REFER TO DOOR SCHEDULE.
- 9. DOOR FRAME - REFER TO DOOR SCHEDULE.

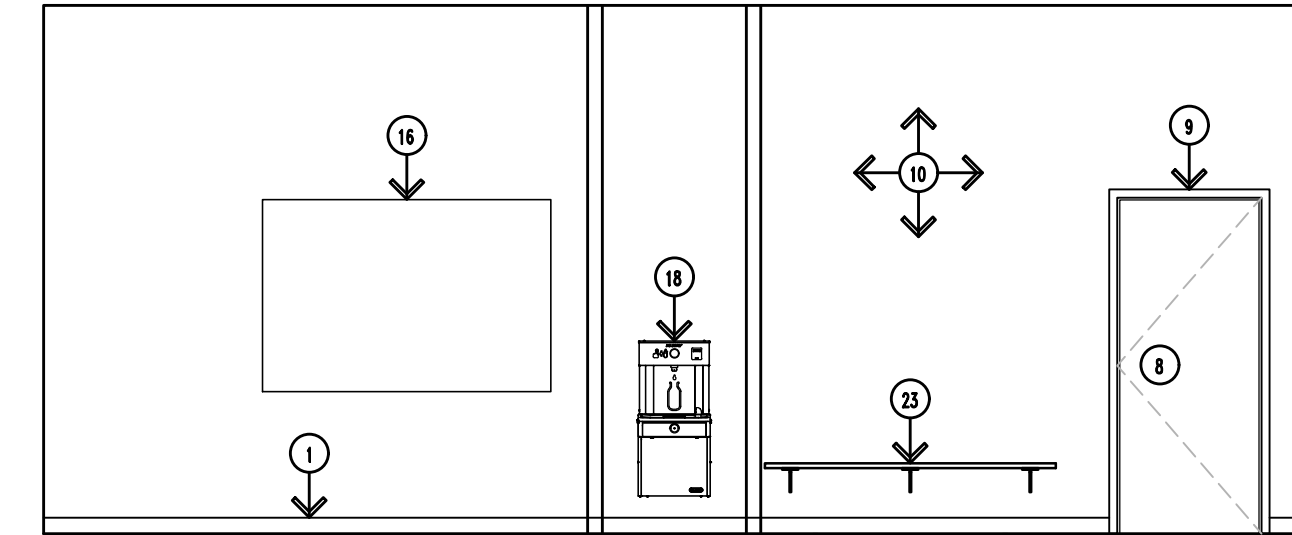
**Interior Elevations - Building A**



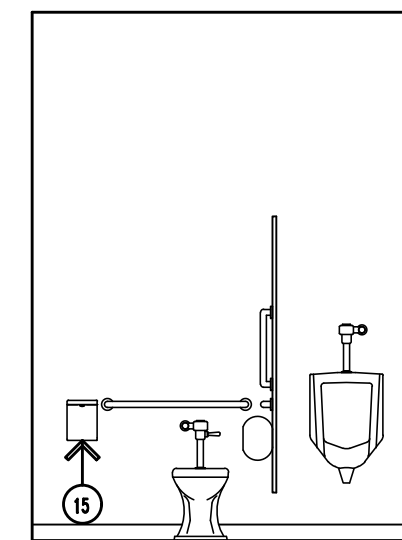
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements



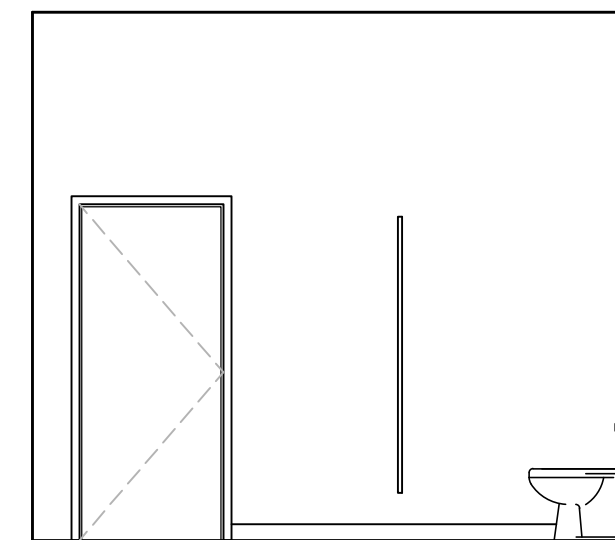
10 Building B Woman's Restroom East Wall  
Scale: 1/4"=1'-0"  
REFER TO 4/A5.01 FOR SIMILAR NOTES



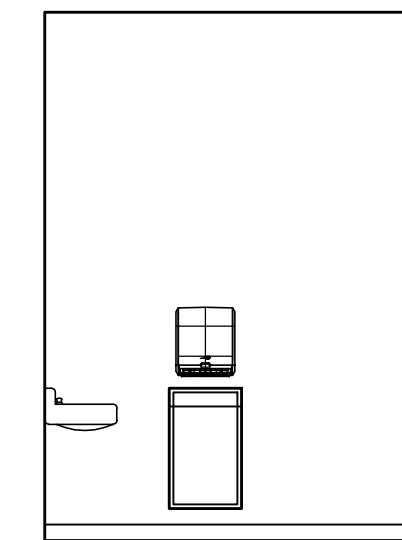
9 Building B Locker Room North Wall  
Scale: 1/4"=1'-0"



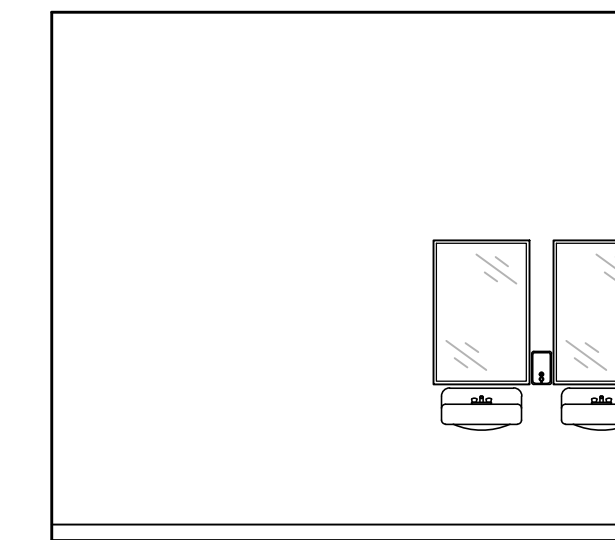
8 Building B Team Restroom West Wall  
Scale: 1/4"=1'-0"  
REFER TO 4/A5.01 FOR SIMILAR NOTES



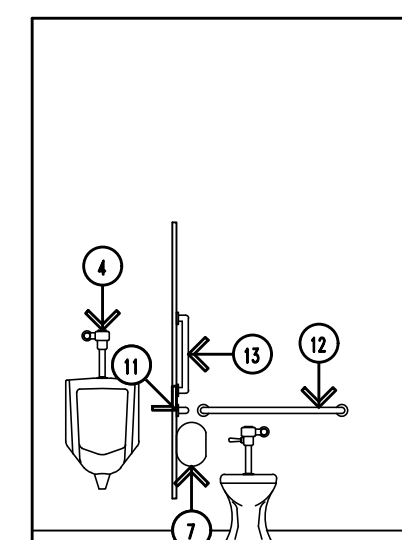
7 Building B Locker Room Restroom South Wall  
Scale: 1/4"=1'-0"  
REFER TO 1/A5.01 FOR SIMILAR NOTES



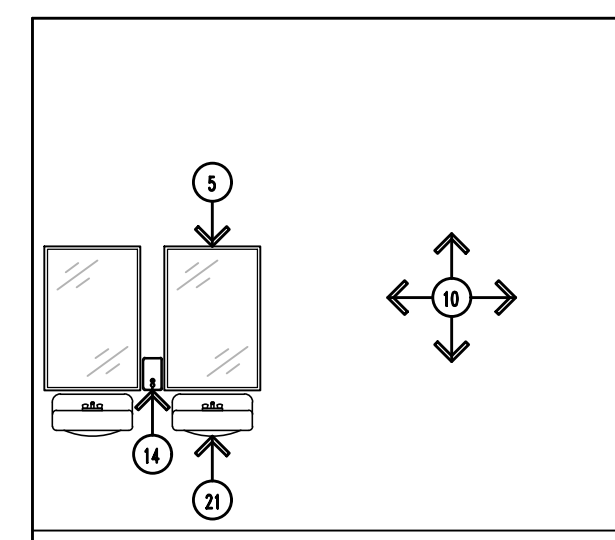
6 Building B Locker Room Restroom East Wall  
Scale: 1/4"=1'-0"  
REFER TO 2/A5.01 FOR SIMILAR NOTES



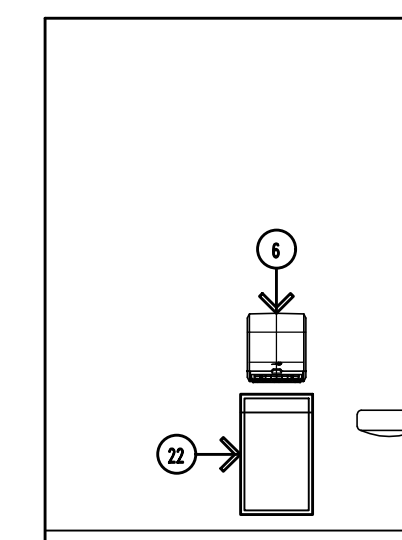
5 Building B Locker Room Restroom North Wall  
Scale: 1/4"=1'-0"  
REFER TO 3/A5.01 FOR SIMILAR NOTES



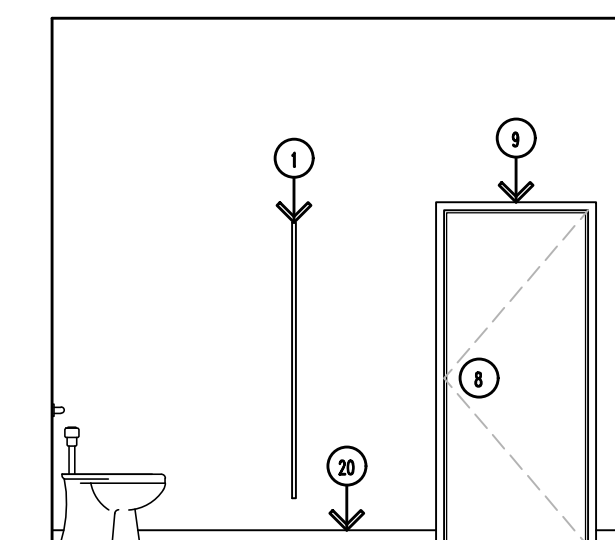
4 Building B Men's Restroom West Wall  
Scale: 1/4"=1'-0"  
NOTE: WOMEN'S RESTROOM SIMILAR



3 Building B Men's Restroom South Wall  
Scale: 1/4"=1'-0"  
NOTE: WOMEN'S RESTROOM SIMILAR



2 Building B Men's Restroom East Wall  
Scale: 1/4"=1'-0"  
NOTE: WOMEN'S RESTROOM SIMILAR



1 Building B Men's Restroom North Wall  
Scale: 1/4"=1'-0"  
NOTE: WOMEN'S RESTROOM SIMILAR

**DRAWING NOTES CONTINUED:**

- 10. PAINTED CMU WALL - REFER TO FINISH / MATERIALS SCHEDULE
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- 16. WHITE BOARD REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 17. APPROXIMATE LOCATION OF INTERACTIVE FLAT PANEL - FURNISHED AND INSTALLED BY TECHNOLOGY VENDOR.
- 18. ELECTRIC WATER COOLER WITH BOTTLE FILLER.
- 19. WALL MOUNTED CHANGING TABLE - REFER TO SPECIFICATIONS.
- 20. WALL BASE.
- 21. WALL-MOUNTED LAVATORY.
- 22. WALL MOUNTED TRASH RECEPTACLE.
- 23. LOCKER ROOM BENCH.

**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

**DRAWING NOTES:**

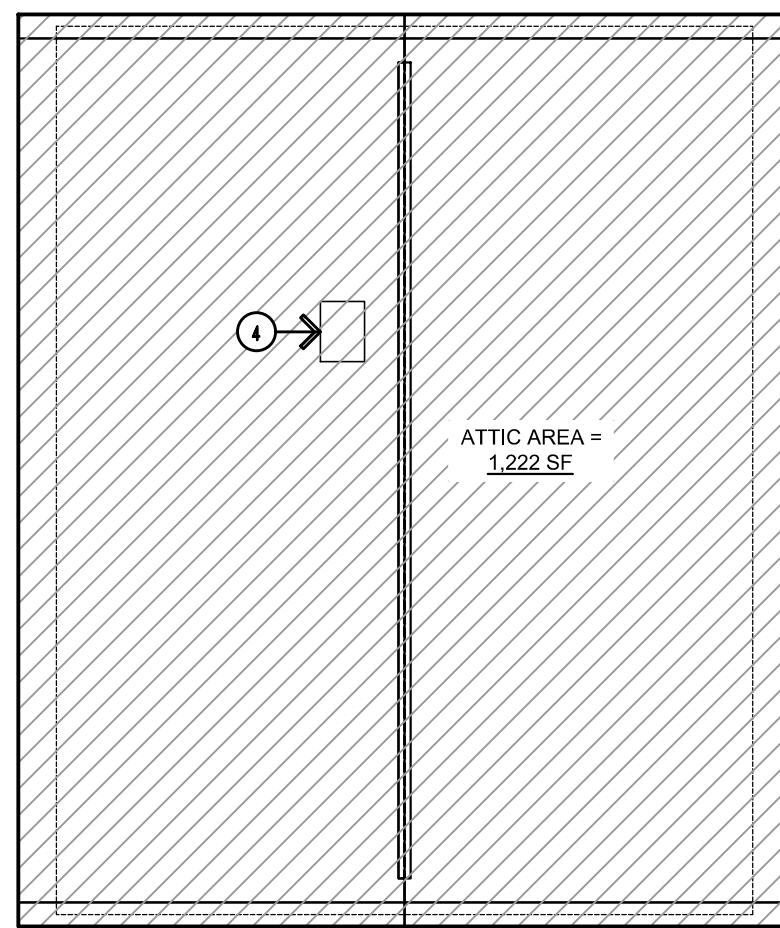
- 1. FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET COMPARTMENT WITH DOOR, HINGES, SLIDE LATCH, DOOR PULL, COAT HOOK, ETC. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 2. WALL MOUNTED, PLASTIC URINAL SCREEN WITH CONTINUOUS WALL BRACKET. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. PROVIDE PILASTER AT FREE END FOR SUPPORT.
- 3. FLOOR MOUNTED TOILET WITH AUTOMATIC FLUSH VALVE, MOUNTED WITH RIM AT 17" A.F.F. (MAXIMUM). REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 4. WALL MOUNTED URINAL WITH AUTOMATIC FLUSH VALVE, MOUNTED WITH RIM AT 17" A.F.F. (MAXIMUM). REFER TO MECHANICAL FOR FURTHER INFORMATION. PROVIDE CONCEALED CARRIER WITH TUBE STEEL SUPPORT LEGS.
- 5. WALL MOUNTED MIRROR - REFER TO SPECIFICATIONS.
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- 7. TOILET TISSUE DISPENSER MOUNTED PER BARRIER FREE REQUIREMENTS.
- 8. DOOR - REFER TO DOOR SCHEDULE.
- 9. DOOR FRAME - REFER TO DOOR SCHEDULE.

**Interior Elevations - Building B**

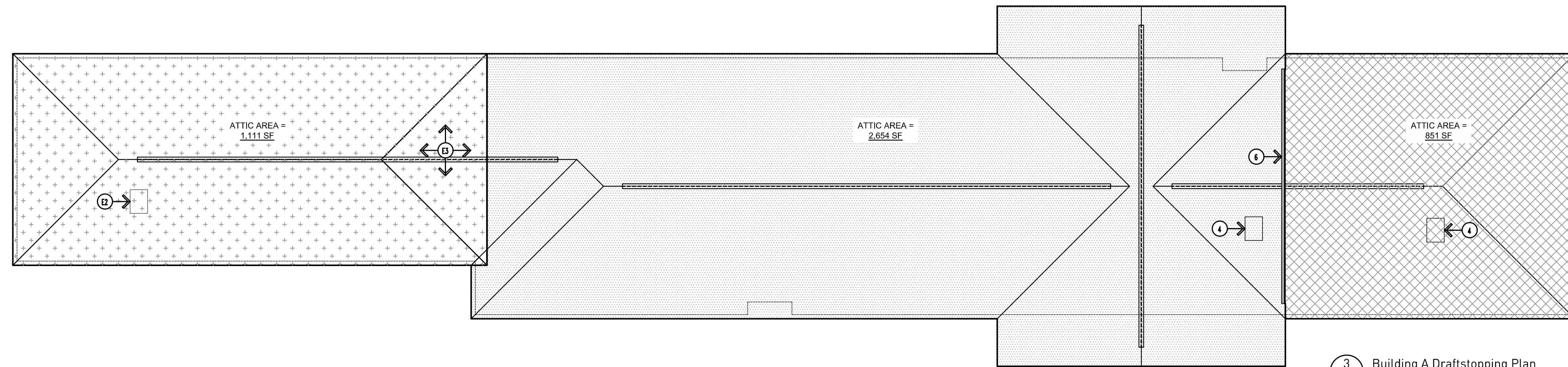


Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

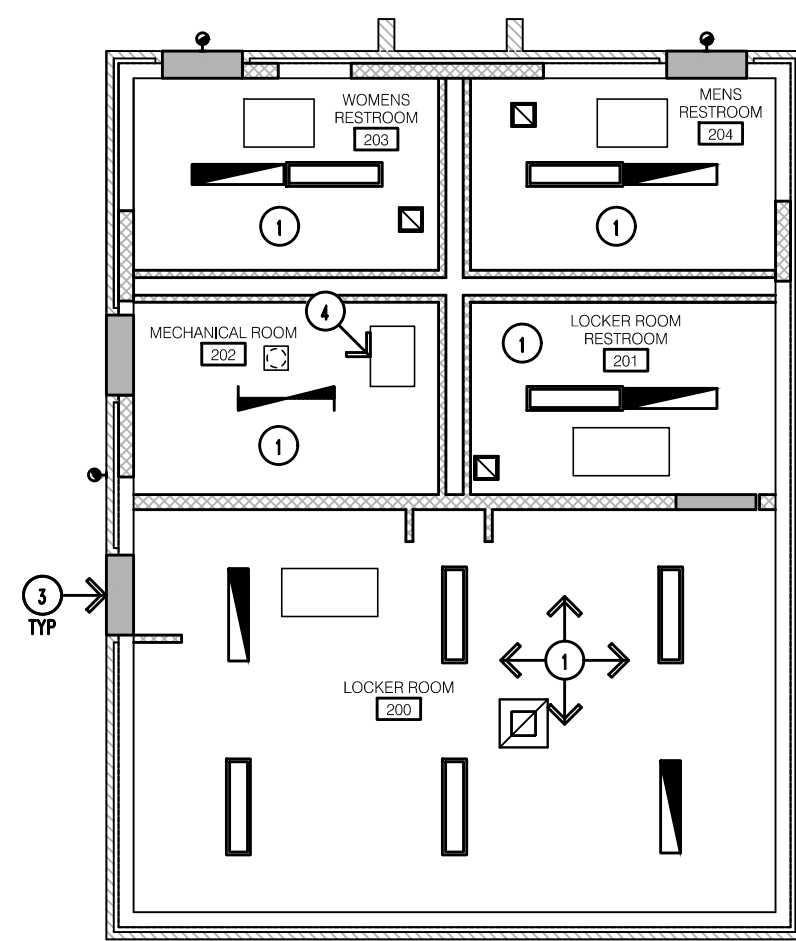




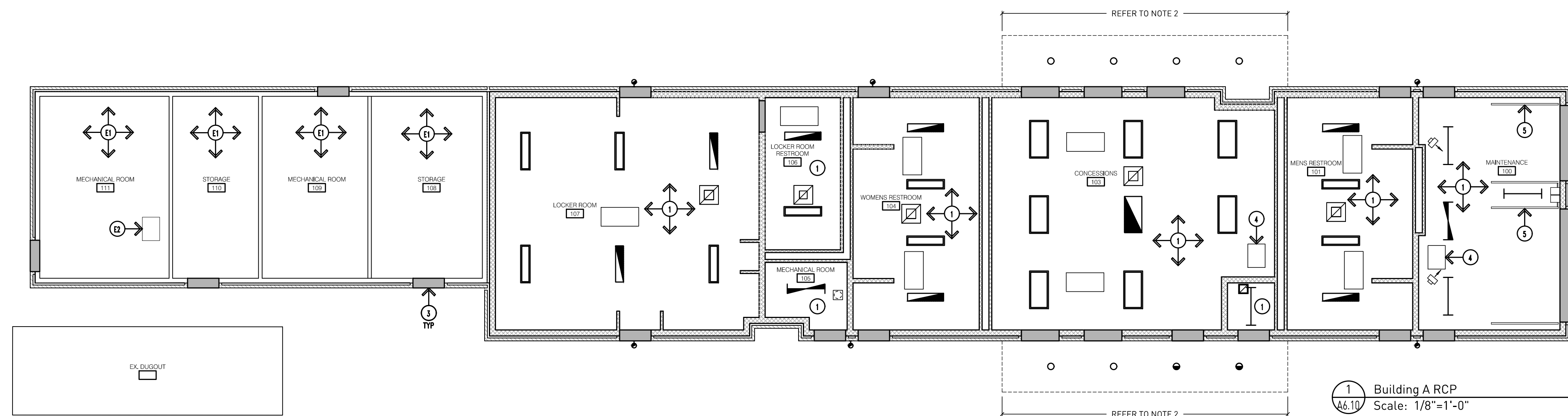
4 Building B Draftstopping Plan  
Scale: 1/8"=1'-0"



3 Building A Draftstopping Plan  
Scale: 1/8"=1'-0"



2 Building B RCP  
Scale: 1/8"=1'-0"



1 Building A RCP  
Scale: 1/8"=1'-0"

**CODE REVIEW - DRAFTSTOPPING PLAN:**

- CR1. 718.3.1 DRAFTSTOPPING MATERIALS - DRAFTSTOPPING MATERIALS SHALL BE NOT LESS THAN 1/2 INCH (12.7 MM) GYPSUM BOARD, 1/2 INCH (9.5 MM) WOOD STRUCTURAL PANEL, 1/2 INCH (9.5 MM) PARTICLE BOARD, 1-INCH (25-MM) NOMINAL LUMBER, CEMENT FIBERBOARD, BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER, OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. THE INTEGRITY OF DRAFTSTOPS SHALL BE MAINTAINED.
- CR2. 718.4 DRAFTSTOPPING IN ATTICS - IN COMBUSTIBLE CONSTRUCTION, DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE ATTIC SPACES AND CONCEALED ROOF SPACES IN THE LOCATIONS PRESCRIBED IN SECTIONS 718.4.2 AND 718.4.3. VENTILATION OF CONCEALED ROOF SPACES SHALL BE MAINTAINED IN ACCORDANCE WITH SECTION 1203.2
- CR3. 718.4.1 DRAFTSTOPPING MATERIALS - MATERIALS UTILIZED FOR DRAFTSTOPPING OF ATTIC SPACES SHALL COMPLY WITH SECTION 718.3.1
- CR4. 718.4.1.1 OPENINGS - OPENINGS IN THE PARTITIONS SHALL BE PROTECTED BY SELF-CLOSING DOORS WITH AUTOMATIC LATCHES CONSTRUCTED AS REQUIRED FOR THE PARTITIONS.
- CR5. 718.4.3 OTHER GROUPS - DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SQUARE FEET (279 M<sup>2</sup>).
- CR6. 1209.2 ATTIC SPACES - AN OPENING NOT LESS THAN 20 INCHES BY 30 INCHES (509 MM BY 762 MM) SHALL BE PROVIDED TO ANY ATTIC AREA HAVING A CLEAR HEIGHT OF OVER 30 INCHES (762 MM). CLEAR HEADROOM OF NOT LESS THAN 30 INCHES (762 MM) SHALL BE PROVIDED IN THE ATTIC SPACE AT OR ABOVE THE ACCESS OPENING.

**LEGEND CONTINUED:**

- ELECTRIC UNIT HEATER - REFER TO MECHANICAL DRAWINGS
- EXHAUST DUCT - REFER TO MECHANICAL DRAWINGS
- ELECTRIC FAN UNIT HEATER - REFER TO MECHANICAL DRAWINGS
- ELECTRIC FAN UNIT HEATER - REFER TO MECHANICAL DRAWINGS

**LEGEND:**

- 1X4 LED LIGHT - REFER TO ELECTRICAL DRAWINGS
- 1X4 LED LIGHT WITH EMERGENCY BACK UP - REFER TO ELECTRICAL DRAWINGS
- LINEAR 4' LIGHT - REFER TO ELECTRICAL DRAWINGS
- LINEAR 4' LIGHT WITH EMERGENCY BACK UP - REFER TO ELECTRICAL DRAWINGS
- 2X4 LED LIGHT - REFER TO ELECTRICAL DRAWINGS
- 2X4 LED LIGHT WITH EMERGENCY BACK UP - REFER TO ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT - REFER TO ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT WITH EMERGENCY BACK UP - REFER TO ELECTRICAL DRAWINGS
- 
- 

**DRAWING NOTES CONTINUED:**

- 6. DRAFTSTOPPING WALL - 2 X 4 NOMINAL WOOD STUD CONSTRUCTION WITH 1/2" GYPSUM BOARD ON EAST SIDE OF WALL.
- EXISTING TO REMAIN:**
- E1. EXISTING CEILING SYSTEM TO REMAIN.
- E2. EXISTING ATTIC ACCESS DOOR.
- E3. EXISTING PLYWOOD ROOF SHEATHING TO REMAIN IN THIS AREA. ENSURE ALL JOINTS ARE PROPERLY SEALED TO ACT AS A DRAFTSTOP - E.C.U. - GPV EXISTING SHEATHING IS AT LEAST 1/2" THICK.

**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. ALL NOTES MAY NOT APPLY TO THIS SHEET.
- G3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G4. PROTECT ALL ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G5. REFER TO FINISH SCHEDULE FOR CEILING HEIGHTS.
- G6. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- G7. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON BUILDING STRUCTURE.

**DRAWING NOTES:**

- 1. GYPSUM BOARD CEILING WITH PAINTED WOOD PERIMETER TRIM.
- 2. ROOF OVERHANG AT CONCESSION WINDOWS - SEE ELEVATIONS FOR LOCATION.
- 3. DOOR HEADER.
- 4. 22" X 30" ATTIC ACCESS DOOR - ACUDOR; PRODUCT - FW-5050-UP FIRE RATED INSULATED UP SWING DOOR FOR CEILING.
- 5. OVERHEAD DOOR TRACK AND OPERATOR.

Bidding and Permits: 20 March 2023

**RCP and Draftstopping Plan**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

A6.10



ROOM FINISH SCHEDULE BUILDING A																		
ROOM NO.	ROOM DESIGNATION	FLOORING INFORMATION				WALL INFORMATION								CEILING INFORMATION				
		FLOOR MATERIAL	BASE MATERIAL	BASE HEIGHT	FLOORING REMARKS	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	WALL REMARKS	CEILING MATERIAL	CEILING FINISH	HEIGHT A.F.F.	CEILING REMARKS
100	MAINTENANCE	SC	RB	4"		CMU	PAINT (PT-2)	CMU	PAINT (PT-2)	CMU	PAINT (PT-2)	CMU	PAINT (PT-1)		GB	PAINT (PT-3)	9'-4"	
101	MENS RESTROOM	SC	RB	4"		CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)		GB	PAINT (PT-3)	9'-4"	
102	JANITORS CLOSET	EFC	EFC	4"		CMU	PAINT (PT-2)	CMU	PAINT (PT-2)	CMU	PAINT (PT-2)	CMU	PAINT (PT-2)		GB	PAINT (PT-3)	9'-4"	
103	CONCESSIONS	EFC	EFC	4"		CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)		GB	PAINT (PT-3)	9'-4"	
104	WOMENS RESTROOM	SC	RB	4"		CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)		GB	PAINT (PT-3)	9'-4"	
105	MECHANICAL ROOM	SC	RB	4"		CMU	PAINT (PT-2)	CMU	PAINT (PT-2)	CMU	PAINT (PT-2)	CMU	PAINT (PT-2)		GB	PAINT (PT-3)	9'-4"	
106	LOCKER ROOM RESTROOM	SC	RB	4"		CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)		GB	PAINT (PT-3)	9'-4"	
107	LOCKER ROOM	SC	RB	4"		CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)		GB	PAINT (PT-3)	9'-4"	
108	STORAGE	ETR	ETR	ETR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR		ETR	ETR	ETR	
109	MECHANICAL ROOM	ETR	ETR	ETR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR		ETR	ETR	ETR	
110	STORAGE	ETR	ETR	ETR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR		ETR	ETR	ETR	
111	MECHANICAL ROOM	ETR	ETR	ETR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR		ETR	ETR	ETR	

ROOM FINISH SCHEDULE BUILDING B																		
ROOM NO.	ROOM DESIGNATION	FLOORING INFORMATION				WALL INFORMATION								CEILING INFORMATION				
		FLOOR MATERIAL	BASE MATERIAL	BASE HEIGHT	FLOORING REMARKS	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	WALL REMARKS	CEILING MATERIAL	CEILING FINISH	HEIGHT A.F.F.	CEILING REMARKS
200	LOCKER ROOM	SC	RB	4"		CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)		GB	PAINT (PT-3)	11'-0"	
201	LOCKER ROOM RESTROOM	SC	RB	4"		CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)		GB	PAINT (PT-3)	11'-0"	
202	MECHANICAL ROOM	SC	RB	4"		CMU	PAINT (PT-2)	CMU	PAINT (PT-2)	CMU	PAINT (PT-2)	CMU	PAINT (PT-2)		GB	PAINT (PT-3)	11'-0"	
203	WOMENS RESTROOM	SC	RB	4"		CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)		GB	PAINT (PT-3)	11'-0"	
204	MENS RESTROOM	SC	RB	4"		CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)		GB	PAINT (PT-3)	11'-0"	

#### FINISH MATERIALS LIST:

EFC SHERWIN WILLIAMS; ARMORSEAL - HAZE GRAY

PT-1 SHERWIN WILLIAMS - SW7016 'MINDFUL GRAY'

PT-2 SHERWIN WILLIAMS - SW7008 'ALABASTER'

PT-3 SHERWIN WILLIAMS - SW7007 'CEILING BRIGHT WHITE'

RB - JOHNSONITE - 29' MOON ROCK'

#### GENERAL NOTES:

G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

G2. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING PAINT FORMULA AND SHEEN BASED ON VARIOUS SUBSTRATES AND APPLICATIONS.

#### LEGEND:

CMU CONCRETE MASONRY UNITS

EFC EPOXY FLOOR COATING - SHERWIN WILLIAMS; PRODUCT - ARMORSEAL PRIMER/SEALER AND 8100 WITH INTEGRAL 4" COVED BASE.

ETR EXISTING TO REMAIN

GB GYPSUM BOARD

PT EPOXY PAINT

RB RUBBER BASE

SC SEALED CONCRETE - DAYTON SUPERIOR; PRODUCT - TUF SEAL J35.

Bidding and Permits: 20 March 2023

#### Finish Schedule



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

A8.50

**DRAWING NOTES (CONTINUED):**

- 57. O/H DOOR - REFER TO DOOR SCHEDULE FOR FURTHER INFORMATION.
- 58. 1 1/2" x 1 1/2" x 1/2" STRAP ANCHOR @ 24" O.C. VERTICALLY--WELD TO CHANNEL WITH HOOK IN GROUT.
- 59. GROUT SOLID.
- 60. WOOD TRIM 3/4" x 1-1/2" - CONTINUOUS AT PERIMETER - ALL ROOMS, PAINTED TO MATCH CEILING.
- 61. 2 x 4 LEDGER.
- 62. 2" x 4" LOOKOUT.
- 63. 1" x 4" WOOD TRIM BOARD - WITH ALUMINUM TRIM.
- 64. PREFINISHED ALUMINUM GUTTER.
- 65. 1" x 4" WOOD FASCIA - WITH ALUMINUM TRIM.
- 66. PREFINISHED ALUMINUM DRIP EDGE.
- 67. 2 x 4 BLOCKING.
- 68. HEAVY DUTY RATED, STEEL FRAMED WALL MOUNTED BENCH WITH ALUMINUM SEAT.

**DRAWING NOTES (CONTINUED):**

- 43. ISOLATION GASKET.
- 44. HEAVY DUTY PREFINISHED ALUMINUM COVER PLATE.
- 45. MOISTURE BARRIER MEMBRANE ATTACHED TO BUILDING STRUCTURE.
- 46. 1/2" @ ANCHOR BOLT, 1'-4" LONG, 4" O.C.
- 47. 2 HOUR FIRE BARRIER.
- 48. STAINLESS STEEL COUNTERTOP - REFER TO FOOD SERVICE DRAWINGS FOR FURTHER INFORMATION.
- 49. STEEL ANGLE - REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
- 50. OVERHEAD DOOR MOTOR.
- 51. OVERHEAD DOOR METAL TRACK.
- 52. METAL TRACK BRACKET.
- 53. ROLLER AXLE.
- 54. ROLLER AXLE BRACKET ATTACHED TO OVERHEAD DOOR.
- 55. STEEL ROLLER.
- 56. CUSTOM STEEL CHANNEL (PRIME AND PAINT) - REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.

**DRAWING NOTES (CONTINUED):**

- 29. CONTINUOUS SPRAY-APPLIED VAPOR BARRIER FROM FOUNDATION TO ROOFING.
- 30. STAINLESS STEEL METAL DRIP WITH HEMMED EDGE.
- 31. FULLY ADHERED FLEXIBLE MEMBRANE FLASHING WITH END DAMS.
- 32. TERMINATION BAR WITH TOP SEALANT--INSTALL PER MANUFACTURER'S REQUIREMENTS.
- 33. PEA STONE DRAINAGE MATERIAL (MINIMUM 4" HEIGHT).
- 34. VERTICAL ALUMINUM SIDING - REFER TO SPECIFICATIONS.
- 35. SEAL EXISTING CONCRETE FLOOR - REFER TO FINISH SCHEDULE.
- 36. PREFABRICATED WOOD TRUSSES - REFER TO STRUCTURAL DRAWINGS FOR SPACING.
- 37. HM DOOR FRAME - REFER TO DOOR SCHEDULE.
- 38. FRP DOOR - REFER TO DOOR SCHEDULE.
- 39. JAMB ANCHOR TO SUIT CONDITIONS.
- 40. GROUT FILLED DOOR FRAME.
- 41. ADHESIVE APPLIED WATERPROOFING - REFER TO SPECIFICATIONS.
- 42. LINE OF GRADE.

**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. NOT ALL NOTES ARE APPLICABLE TO THIS SHEET.
- G3. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- G4. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- G5. PROVIDE MASONRY WEEPHOLES @ 32" O.C. HORIZONTALLY COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
- G6. MASONRY CONTROL JOINTS SHOULD BE SPACED 25'-0" APART MAX. AND SHOULD NOT BE SPACED FURTHER THAN 1.5x THE WALL HEIGHT - REFER TO THE MASONRY INSTITUTE FOR FURTHER INFORMATION.
- G7. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS, DIMENSIONS, ACCESS, ETC. PRIOR TO BIDDING AND STARTING WORK.
- G8. NEW PLYWOOD THICKNESS TO MATCHING EXISTING (C.F.V.)
- G9. RESTORE EXISTING PAVING, LANDSCAPING, LAWN, ETC. TO ORIGINAL CONDITIONS IF DAMAGED DURING CONSTRUCTION OPERATIONS.
- G10. REFER TO SPECIFICATIONS FOR SHINGLE TYPE, ALTERNATIVES, ETC.
- G11. CONTRACTOR TO INVESTIGATE EXISTING PLYWOOD SHEATHING FOR STRUCTURAL SOUNDNESS. IF IT IS DETERMINED THAT REPLACEMENT IS REQUIRED, THE CONTRACT WILL BE ADJUSTED ACCORDINGLY VIA CHANGE ORDER AT THE UNIT PRICES INCLUDED ON THE PROPOSAL FORM. CONTRACTOR TO MATCH EXISTING THICKNESS (C.F.V.)
- G12. INTENT IS FOR ENTIRE ROOF DECK TO BE COVERED WITH SELF-ADHERING LEAK BARRIER.

**EXISTING TO REMAIN NOTES:**

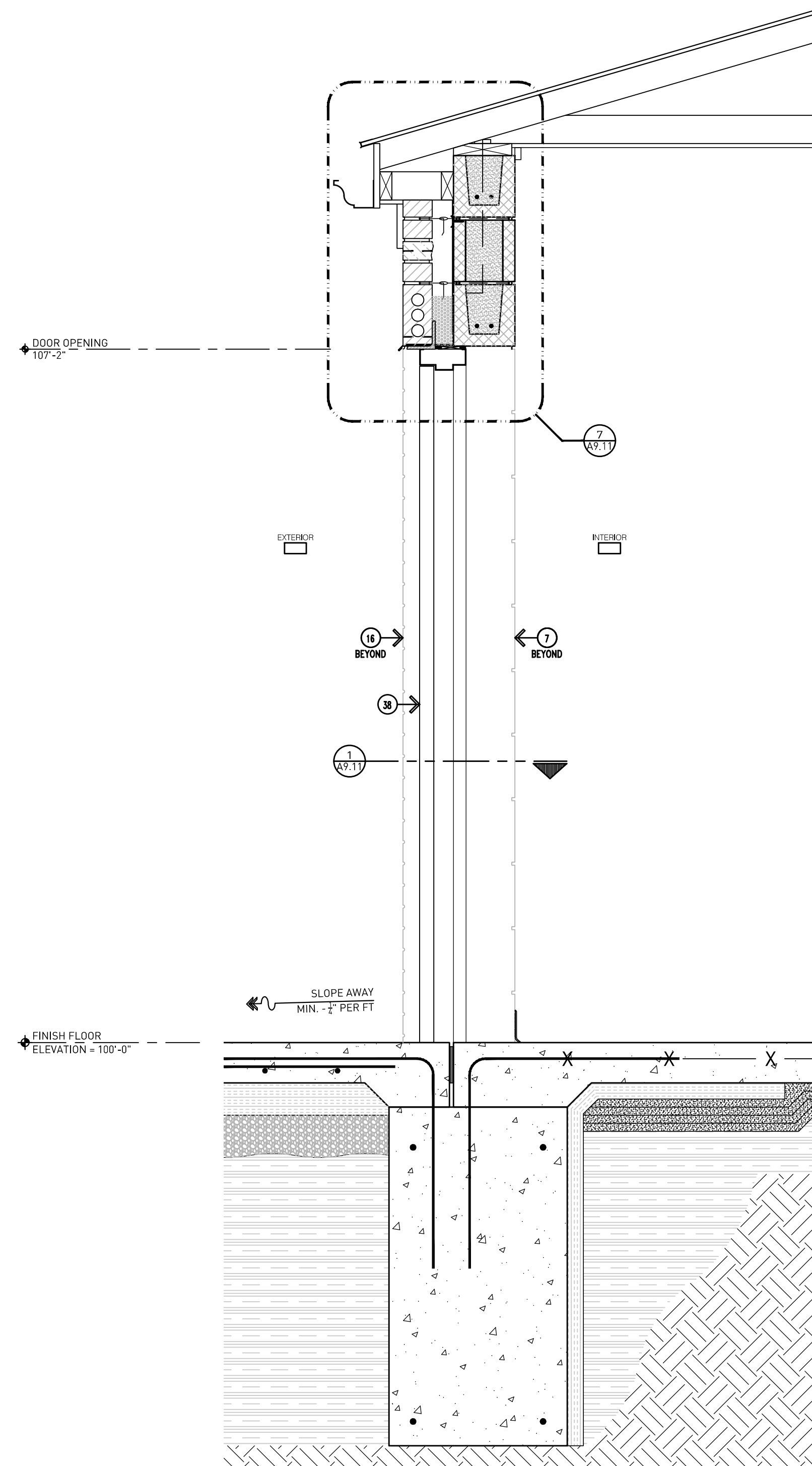
- E1. CONCRETE FLOOR SLAB - EXACT CONDITIONS UNKNOWN.
- E2. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E3. ROOF STRUCTURE (WOOD TRUSSES) - EXACT CONDITIONS UNKNOWN.
- E4. UNDISTURBED SOIL.
- E5. STRUCTURAL FOOTING - EXACT CONDITIONS UNKNOWN. CONTRACTOR TO FIELD VERIFY DEPTH.
- E6. WOOD FRAME CONSTRUCTION - EXACT CONDITIONS UNKNOWN.
- E7. GYP. BOARD CEILING - EXACT CONDITIONS UNKNOWN.
- E8. PLYWOOD ROOF SHEATHING - EXACT CONDITIONS UNKNOWN. REFER TO NOTE G11.
- E9. PLYWOOD WALL SHEATHING - EXACT CONDITIONS UNKNOWN. REFER TO NOTE G11.

**REMOVAL NOTES:**

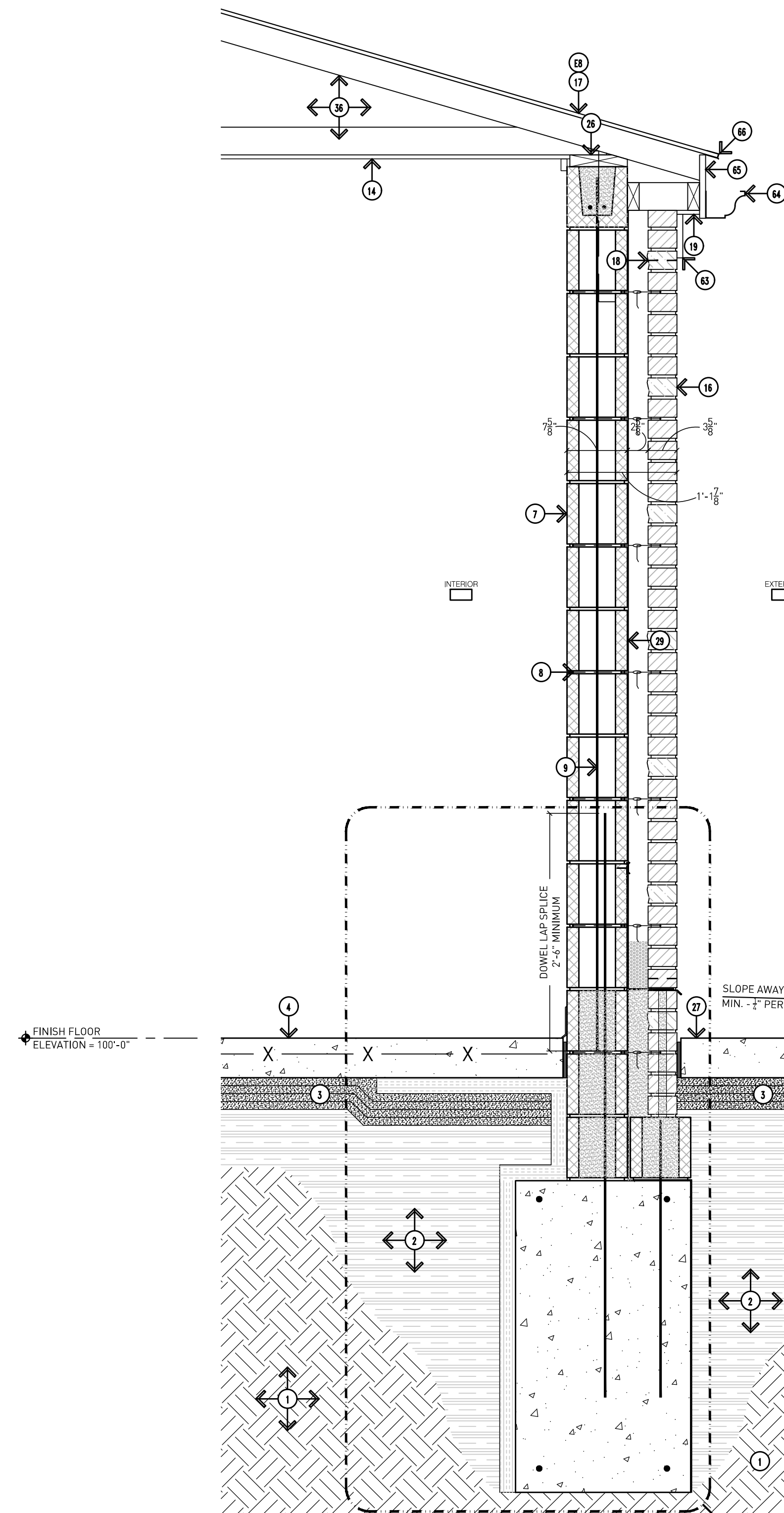
- R1. EXISTING ROOF STRUCTURE/SYSTEM AS INDICATED. CONTRACTOR TO REMOVE ROOF BACK TO THE FACE OF THE EXISTING WALL, WATERPROOF AND SEAL ANY AND ALL OPENINGS IN ROOF FOR A WEATHER-TIGHT INSTALLATION.

**DRAWING NOTES:**

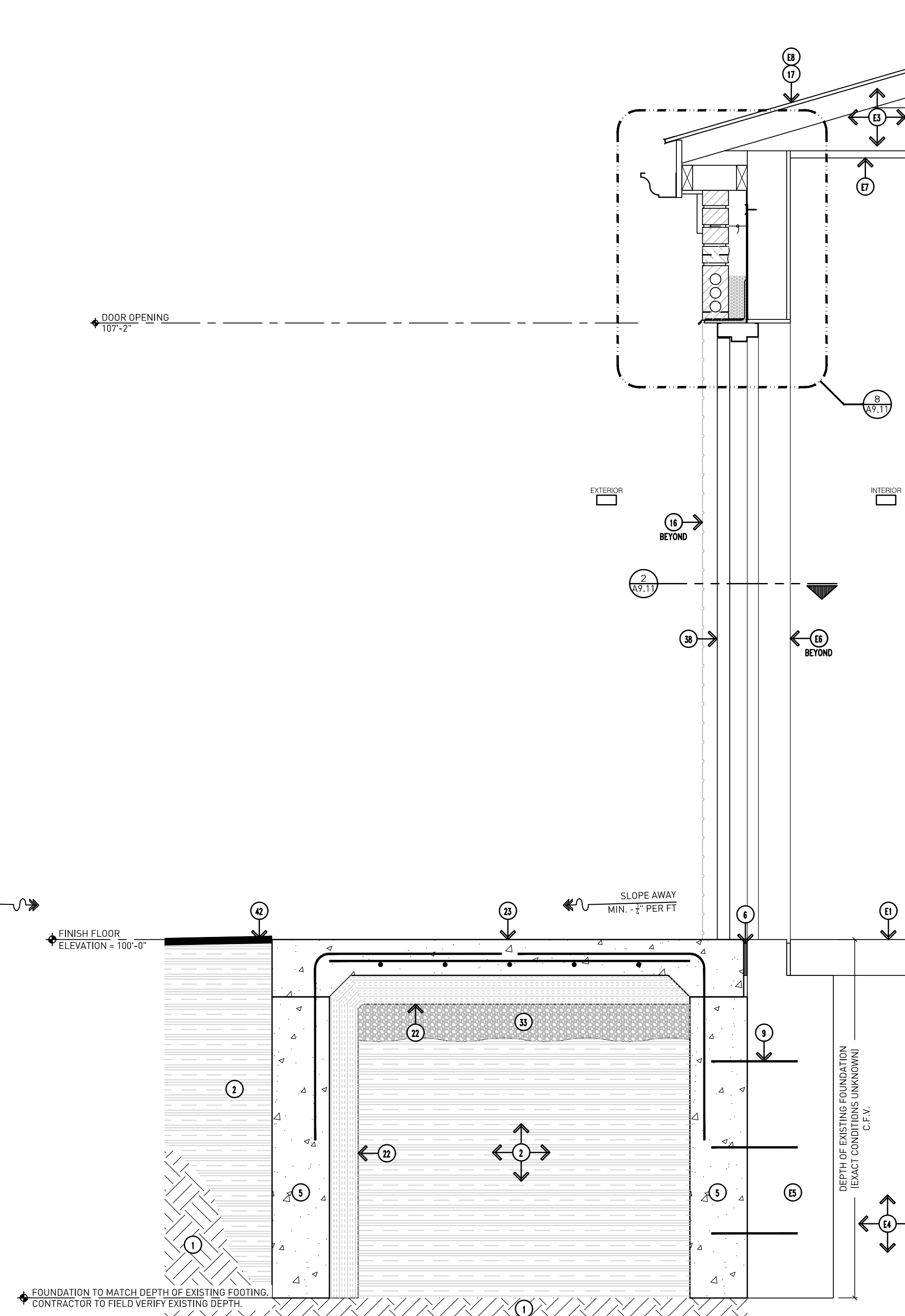
- 1. PROPERLY COMPACTED EXISTING SUBGRADE.
- 2. COMPACTED ENGINEERED FILL AS REQUIRED AFTER REMOVAL OF EXISTING LAWN / UNSUITABLE SOILS AS REQUIRED FOR PROPER SLAB ELEVATION.
- 3. COMPACTED SAND CUSHION BASE (MINIMUM 4").
- 4. SEALED CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.
- 5. CONCRETE FOUNDATION - REFER TO STRUCTURAL DRAWINGS.
- 6. 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT.
- 7. CMU MASONRY BLOCK (EPOXY PAINT ALL SURFACES EXPOSED TO VIEW).
- 8. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 9. REINFORCING - REFER TO STRUCTURAL DRAWINGS.
- 10. EPOXY FLOOR COATING WITH INTEGRAL 4" COVED BASE.
- 11. 4" RUBBER BASE.
- 12. GROUT BRICK/CMU CORES AND COLLAR JOINTS SOLID BELOW FLASHING, BELOW GRADE, AND WHERE INDICATED BY STRUCTURAL DRAWINGS.
- 13. 2" RIGID INSULATION BOARD MINIMUM 24" INSIDE BUILDING, AND VERTICALLY BEHIND FOUNDATION.
- 14. 1/2" GYP. BOARD ON WOOD TRUSSES.
- 15. SERVING WINDOW FRAMING AND GLAZING - REFER TO WINDOW SCHEDULE AND DETAILS.
- 16. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
- 17. ASPHALT SHINGLES ON 40 MIL SELF ADHERING LEAK BARRIER OVER THE EXISTING PLYWOOD ROOF SHEATHING.
- 18. 1/2" x 1 1/2" PLASTIC WEEP VENT WITH INSECT SCREEN AT BASE AND TOP OF WALL.
- 19. ALUMINUM SOFFIT, FULLY VENTED - REFER TO SPECIFICATIONS.
- 20. 1/2" CROSS FURRING SPACED PER MANUFACTURER'S RECOMMENDATIONS.
- 21. 2" CRC MAIN RUNNER ATTACHED TO BUILDING STRUCTURE WITH GALVANIZED TIE WIRE (SPACED PER MANUFACTURER'S RECOMMENDATIONS).
- 22. INSULATION FORM - REFER TO STRUCTURAL DRAWINGS.
- 23. 5" CONCRETE FROST SLAB -- SLOPE AWAY FROM BUILDING MINIMUM 1/2" PER FOOT.
- 24. RECESSED LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS.
- 25. STEEL LINTEL WITH PLATE, PAINT -- REFER TO STRUCTURAL DRAWINGS.
- 26. 2" x 8" PRESERVATIVE TREATED WOOD PLATE.
- 27. CONCRETE SIDEWALK OR PLAZA PAVING - REFER TO CIVIL DRAWINGS.
- 28. SEALANT (WITH FOAM BACKER ROD AS NECESSARY TO SUIT CONDITIONS).



**A11**  
A9.00 Building A: Area 1 Exterior Wall Section  
Scale: 1"=1'-0"  
REFER TO A10/A9.00 AND A10/A9.00 FOR TYPICAL NOTES



**A10**  
A9.00 Building A: Area 1 Exterior Wall Section  
Scale: 1"=1'-0"



**A1**  
A9.00 Building A: Area 2 Exterior Wall Section  
Scale: 1"=1'-0"

Bidding and Permits: 20 March 2023

**Exterior Wall Sections - Building A**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

**A9.00**

**DRAWING NOTES (CONTINUED):**

- 60. WOOD TRIM 3/4" x 1-1/2" - CONTINUOUS AT PERIMETER - ALL ROOMS, PAINTED TO MATCH CEILING.
- 61. 2 x 4 LEDGER.
- 62. 2" x 4" LOOKOUT.
- 63. 1" x 6" WOOD TRIM BOARD - WITH ALUMINUM TRIM.
- 64. PREFINISHED ALUMINUM GUTTER.
- 65. 1" x 4" WOOD FASCIA - WITH ALUMINUM TRIM.
- 66. PREFINISHED ALUMINUM DRIP EDGE.
- 67. 2 x 4 BLOCKING.
- 68. HEAVY DUTY RATED, STEEL FRAMED WALL MOUNTED BENCH WITH ALUMINUM SEAT.

**DRAWING NOTES (CONTINUED):**

- 48. STAINLESS STEEL COUNTERTOP - REFER TO FOOD SERVICE DRAWINGS FOR FURTHER INFORMATION.
- 49. STEEL ANGLE - REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
- 50. GROUT FILLED DOOR FRAME.
- 51. OVERHEAD DOOR METAL TRACK.
- 52. METAL TRACK BRACKET.
- 53. ROLLER AXLE.
- 54. ROLLER AXLE BRACKET ATTACHED TO OVERHEAD DOOR.
- 55. STEEL ROLLER.
- 56. CUSTOM STEEL CHANNEL (PRIME AND PAINT) - REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
- 57. O/H DOOR - REFER TO DOOR SCHEDULE FOR FURTHER INFORMATION.
- 58. 1 1/2" x 1/8" x 1/2" STRAP ANCHOR @ 24" O.C. VERTICALLY--WELD TO CHANNEL WITH HOOK IN GROUT.
- 59. GROUT SOLID.

**DRAWING NOTES (CONTINUED):**

- 38. FRP DOOR - REFER TO DOOR SCHEDULE.
- 39. JAMB ANCHOR TO SUIT CONDITIONS.
- 40. GROUT FILLED DOOR FRAME.
- 41. ADHESIVE APPLIED WATERPROOFING - REFER TO SPECIFICATIONS.
- 42. LINE OF GRADE.
- 43. ISOLATION GASKET.
- 44. HEAVY DUTY PREFINISHED ALUMINUM COVER PLATE.
- 45. MOISTURE BARRIER MEMBRANE ATTACHED TO BUILDING STRUCTURE.
- 46. 1/2" Ø ANCHOR BOLT, 1'-4" LONG, 4" O.C.
- 47. 2 HOUR FIRE BARRIER.

**DRAWING NOTES (CONTINUED):**

- 29. CONTINUOUS SPRAY-APPLIED VAPOR BARRIER FROM FOUNDATION TO ROOFING.
- 30. STAINLESS STEEL METAL DRIP WITH HEMMED EDGE.
- 31. FULLY ADHERED FLEXIBLE MEMBRANE FLASHING WITH END DAMS.
- 32. TERMINATION BAR WITH TOP SEALANT--INSTALL PER MANUFACTURER'S REQUIREMENTS.
- 33. PEA STONE DRAINAGE MATERIAL (MINIMUM 6" HEIGHT).
- 34. VERTICAL ALUMINUM SIDING - REFER TO SPECIFICATIONS.
- 35. SEAL EXISTING CONCRETE FLOOR - REFER TO FINISH SCHEDULE.
- 36. PREFABRICATED WOOD TRUSSES - REFER TO STRUCTURAL DRAWINGS FOR SPACING.
- 37. HM DOOR FRAME - REFER TO DOOR SCHEDULE.

**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
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- G3. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- G4. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- G5. PROVIDE MASONRY WEEPHOLES @ 32" O.C. HORIZONTALLY COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
- G6. MASONRY CONTROL JOINTS SHOULD BE SPACED 25'-0" APART MAX. AND SHOULD NOT BE SPACED FURTHER THAN 1.5x THE WALL HEIGHT - REFER TO THE MASONRY INSTITUTE FOR FURTHER INFORMATION.
- G7. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS, DIMENSIONS, ACCESS, ETC. PRIOR TO BIDDING AND STARTING WORK.
- G8. NEW PLYWOOD THICKNESS TO MATCHING EXISTING (C.F.V.)
- G9. RESTORE EXISTING PAVING, LANDSCAPING, LAWN, ETC. TO ORIGINAL CONDITIONS IF DAMAGED DURING CONSTRUCTION OPERATIONS.
- G10. REFER TO SPECIFICATIONS FOR SHINGLE TYPE, ALTERNATIVES, ETC.
- G11. CONTRACTOR TO INVESTIGATE EXISTING PLYWOOD SHEATHING FOR STRUCTURAL SOUNDNESS. IF IT IS DETERMINED THAT REPLACEMENT IS REQUIRED, THE CONTRACT WILL BE ADJUSTED ACCORDINGLY VIA CHANGE ORDER AT THE UNIT PRICES INCLUDED ON THE PROPOSAL FORM. CONTRACTOR TO MATCH EXISTING THICKNESS (C.F.V.)
- G12. INTENT IS FOR ENTIRE ROOF DECK TO BE COVERED WITH SELF-ADHERING LEAK BARRIER.

**EXISTING TO REMAIN NOTES:**

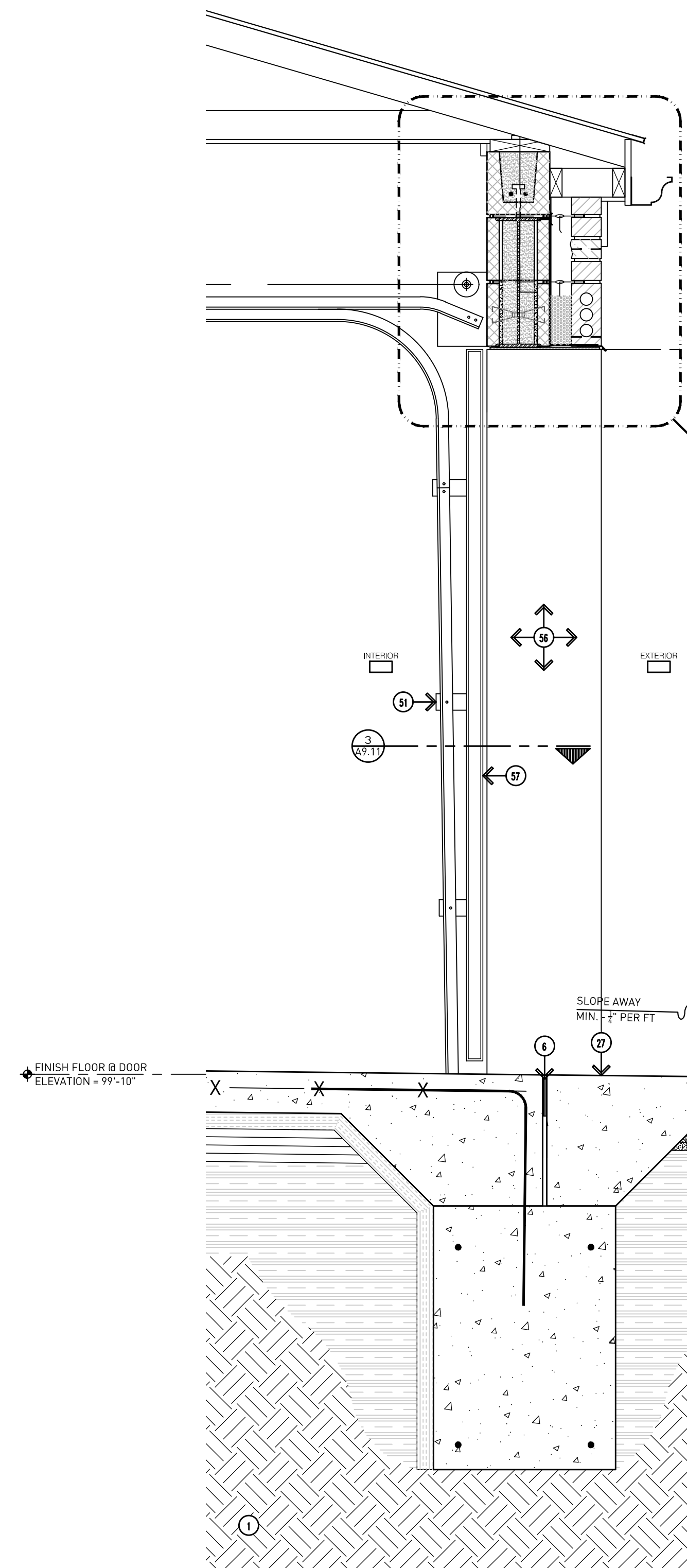
- E1. CONCRETE FLOOR SLAB - EXACT CONDITIONS UNKNOWN.
- E2. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E3. ROOF STRUCTURE (WOOD TRUSSES) - EXACT CONDITIONS UNKNOWN.
- E4. UNDISTURBED SOIL.
- E5. STRUCTURAL FOOTING - EXACT CONDITIONS UNKNOWN. CONTRACTOR TO FIELD VERIFY DEPTH.
- E6. WOOD FRAME CONSTRUCTION - EXACT CONDITIONS UNKNOWN.
- E7. GYP. BOARD CEILING - EXACT CONDITIONS UNKNOWN.
- E8. PLYWOOD ROOF SHEATHING - EXACT CONDITIONS UNKNOWN. REFER TO NOTE G11.
- E9. PLYWOOD WALL SHEATHING - EXACT CONDITIONS UNKNOWN. REFER TO NOTE G11.

**REMOVAL NOTES:**

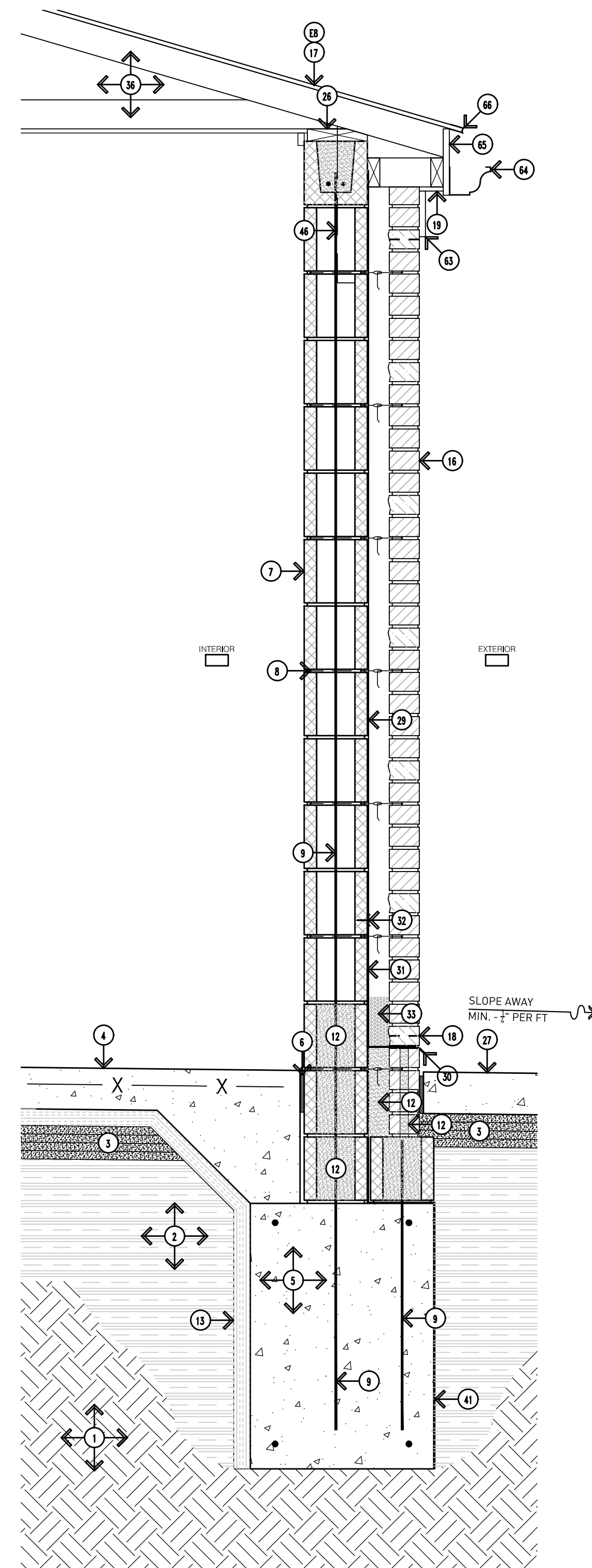
- R1. EXISTING ROOF STRUCTURE/SYSTEM AS INDICATED. CONTRACTOR TO REMOVE ROOF BACK TO THE FACE OF THE EXISTING WALL. WATERPROOF AND SEAL ANY AND ALL OPENINGS IN ROOF FOR A WEATHER-TIGHT INSTALLATION.

**DRAWING NOTES:**

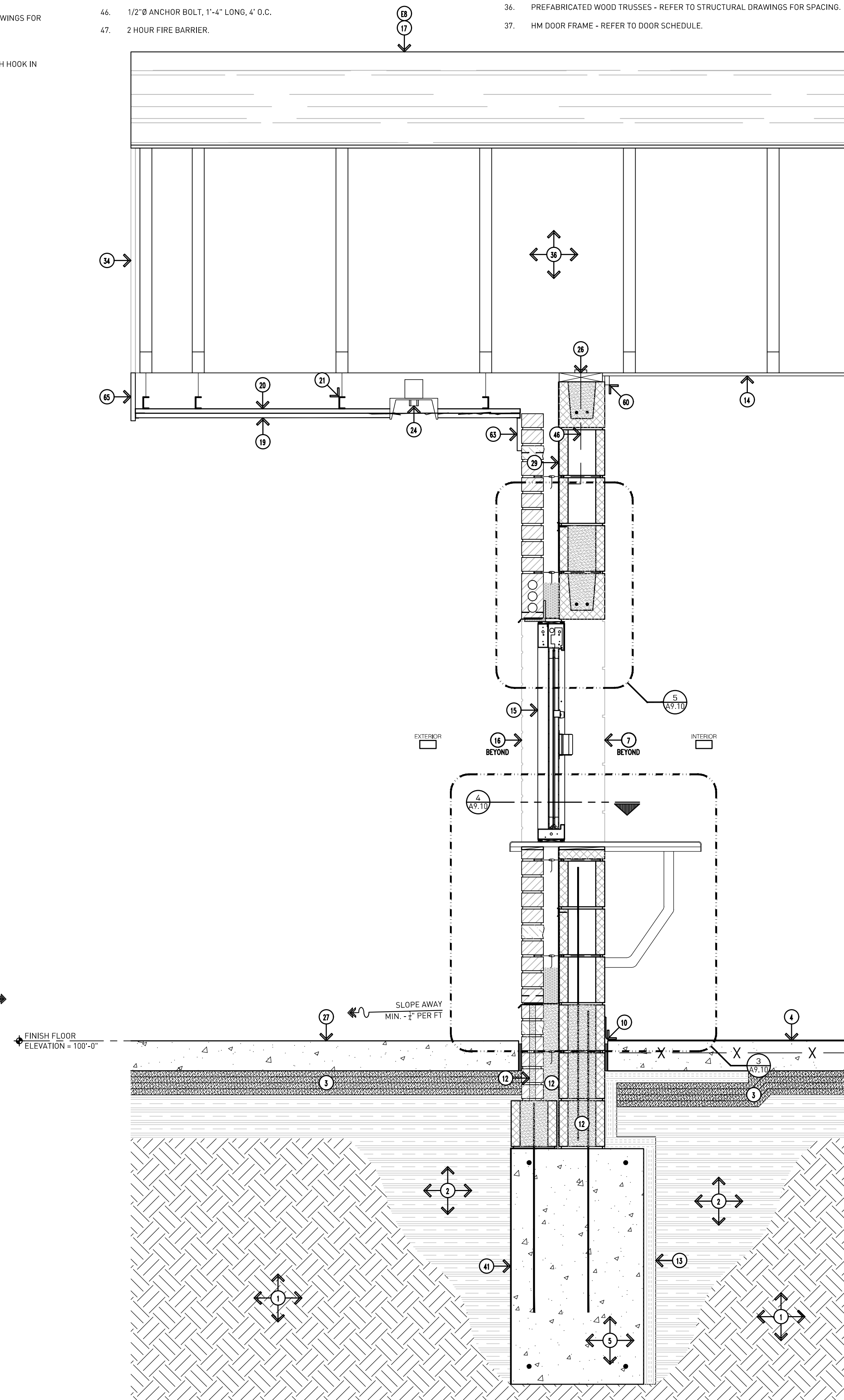
- 1. PROPERLY COMPACTED EXISTING SUBGRADE.
- 2. COMPACTED ENGINEERED FILL AS REQUIRED AFTER REMOVAL OF EXISTING LAWN / UNSUITABLE SOILS AS REQUIRED FOR PROPER SLAB ELEVATION.
- 3. COMPACTED SAND CUSHION BASE (MINIMUM 4").
- 4. SEALED CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.
- 5. CONCRETE FOUNDATION - REFER TO STRUCTURAL DRAWINGS.
- 6. 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT.
- 7. CMU MASONRY BLOCK (EPOXY PAINT ALL SURFACES EXPOSED TO VIEW).
- 8. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 9. REINFORCING - REFER TO STRUCTURAL DRAWINGS.
- 10. EPOXY FLOOR COATING WITH INTEGRAL 4" COVED BASE.
- 11. 4" RUBBER BASE.
- 12. GROUT BRICK/CMU CORES AND COLLAR JOINTS SOLID BELOW FLASHING, BELOW GRADE, AND WHERE INDICATED BY STRUCTURAL DRAWINGS.
- 13. 2" RIGID INSULATION BOARD MINIMUM 24" INSIDE BUILDING, AND VERTICALLY BEHIND FOUNDATION.
- 14. 1/2" GYP. BOARD ON WOOD TRUSSES.
- 15. SERVING WINDOW FRAMING AND GLAZING - REFER TO WINDOW SCHEDULE AND DETAILS.
- 16. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
- 17. ASPHALT SHINGLES ON 40 MIL SELF ADHERING LEAK BARRIER OVER THE EXISTING PLYWOOD ROOF SHEATHING.
- 18. 1/2" x 1 1/2" PLASTIC WEEP VENT WITH INSECT SCREEN AT BASE AND TOP OF WALL.
- 19. ALUMINUM SOFFIT, FULLY VENTED - REFER TO SPECIFICATIONS.
- 20. 1/2" CROSS FURRING SPACED PER MANUFACTURER'S RECOMMENDATIONS.
- 21. 2" CRC MAIN RUNNER ATTACHED TO BUILDING STRUCTURE WITH GALVANIZED TIE WIRE (SPACED PER MANUFACTURER'S RECOMMENDATIONS).
- 22. INSULATION FORM - REFER TO STRUCTURAL DRAWINGS.
- 23. 5" CONCRETE FROST SLAB -- SLOPE AWAY FROM BUILDING MINIMUM 1/2" PER FOOT.
- 24. RECESSED LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS.
- 25. STEEL LINTEL WITH PLATE, PAINT -- REFER TO STRUCTURAL DRAWINGS.
- 26. 2" x 8" PRESERVATIVE TREATED WOOD PLATE.
- 27. CONCRETE SIDEWALK OR PLAZA PAVING - REFER TO CIVIL DRAWINGS.
- 28. SEALANT (WITH FOAM BACKER ROD AS NECESSARY TO SUIT CONDITIONS).



**A14**  
A9.01 Building A: Area 1 Exterior Wall Section  
Scale: 1"=1'-0"  
REFER TO A13/A9.01 FOR TYPICAL NOTES



**A13**  
A9.01 Building A: Area 1 Exterior Wall Section  
Scale: 1"=1'-0"



**A12**  
A9.01 Building A: Area 1 Exterior Wall Section  
Scale: 1"=1'-0"  
REFER TO A13/A9.01 FOR TYPICAL NOTES

Bidding and Permits: 20 March 2023

**Exterior Wall Sections - Building A**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

**A9.01**

**DRAWING NOTES (CONTINUED):**

29. CONTINUOUS SPRAY-APPLIED VAPOR BARRIER FROM FOUNDATION TO ROOFING.
30. STAINLESS STEEL METAL DRIP WITH HEMMED EDGE.
31. FULLY ADHERED FLEXIBLE MEMBRANE FLASHING WITH END DAMS.
32. TERMINATION BAR WITH TOP SEALANT--INSTALL PER MANUFACTURER'S REQUIREMENTS.
33. PEA STONE DRAINAGE MATERIAL (MINIMUM 6" HEIGHT).
34. VERTICAL ALUMINUM SIDING - REFER TO SPECIFICATIONS.
35. SEAL EXISTING CONCRETE FLOOR - REFER TO FINISH SCHEDULE.
36. PREFABRICATED WOOD TRUSSES - REFER TO STRUCTURAL DRAWINGS FOR SPACING.
37. HM DOOR FRAME - REFER TO DOOR SCHEDULE.
38. FRP DOOR - REFER TO DOOR SCHEDULE.
39. JAMB ANCHOR TO SUIT CONDITIONS.
40. GROUT FILLED DOOR FRAME.
41. ADHESIVE APPLIED WATERPROOFING - REFER TO SPECIFICATIONS.
42. LINE OF GRADE.
43. ISOLATION GASKET.
44. HEAVY DUTY PREFINISHED ALUMINUM COVER PLATE.
45. MOISTURE BARRIER MEMBRANE ATTACHED TO BUILDING STRUCTURE.
46. 1/2"Ø ANCHOR BOLT, 1'-4" LONG, 4" O.C.
47. 2 HOUR FIRE BARRIER.
48. STAINLESS STEEL COUNTERTOP - REFER TO FOOD SERVICE DRAWINGS FOR FURTHER INFORMATION.
49. STEEL ANGLE - REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
50. OVERHEAD DOOR MOTOR.
51. OVERHEAD DOOR METAL TRACK.
52. METAL TRACK BRACKET.
53. ROLLER AXLE.
54. ROLLER AXLE BRACKET ATTACHED TO OVERHEAD DOOR.
55. STEEL ROLLER.
56. CUSTOM STEEL CHANNEL (PRIME AND PAINT) - REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
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58. 1 1/2" x 1 1/2" x 1/2" STRAP ANCHOR @ 24" O.C. VERTICALLY--WELD TO CHANNEL WITH HOOK IN GROUT.
59. GROUT SOLID.
60. WOOD TRIM 3/4" x 1-1/2" - CONTINUOUS AT PERIMETER - ALL ROOMS, PAINTED TO MATCH CEILING.
61. 2 x 4 LEDGER.
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68. HEAVY DUTY RATED, STEEL FRAMED WALL MOUNTED BENCH WITH ALUMINUM SEAT.

**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. NOT ALL NOTES ARE APPLICABLE TO THIS SHEET.
- G3. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- G4. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- G5. PROVIDE MASONRY WEEPHOLES @ 32" O.C. HORIZONTALLY COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
- G6. MASONRY CONTROL JOINTS SHOULD BE SPACED 25'-0" APART MAX. AND SHOULD NOT BE SPACED FURTHER THAN 1.5x THE WALL HEIGHT - REFER TO THE MASONRY INSTITUTE FOR FURTHER INFORMATION.
- G7. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS, DIMENSIONS, ACCESS, ETC. PRIOR TO BIDDING AND STARTING WORK.
- G8. NEW PLYWOOD THICKNESS TO MATCHING EXISTING (C.F.V.)
- G9. RESTORE EXISTING PAVING, LANDSCAPING, LAWN, ETC. TO ORIGINAL CONDITIONS IF DAMAGED DURING CONSTRUCTION OPERATIONS.
- G10. REFER TO SPECIFICATIONS FOR SHINGLE TYPE, ALTERNATIVES, ETC.
- G11. CONTRACTOR TO INVESTIGATE EXISTING PLYWOOD SHEATHING FOR STRUCTURAL SOUNDNESS. IF IT IS DETERMINED THAT REPLACEMENT IS REQUIRED, THE CONTRACT WILL BE ADJUSTED ACCORDINGLY VIA CHANGE ORDER AT THE UNIT PRICES INCLUDED ON THE PROPOSAL FORM. CONTRACTOR TO MATCH EXISTING THICKNESS (C.F.V.)
- G12. INTENT IS FOR ENTIRE ROOF DECK TO BE COVERED WITH SELF-ADHERING LEAK BARRIER.

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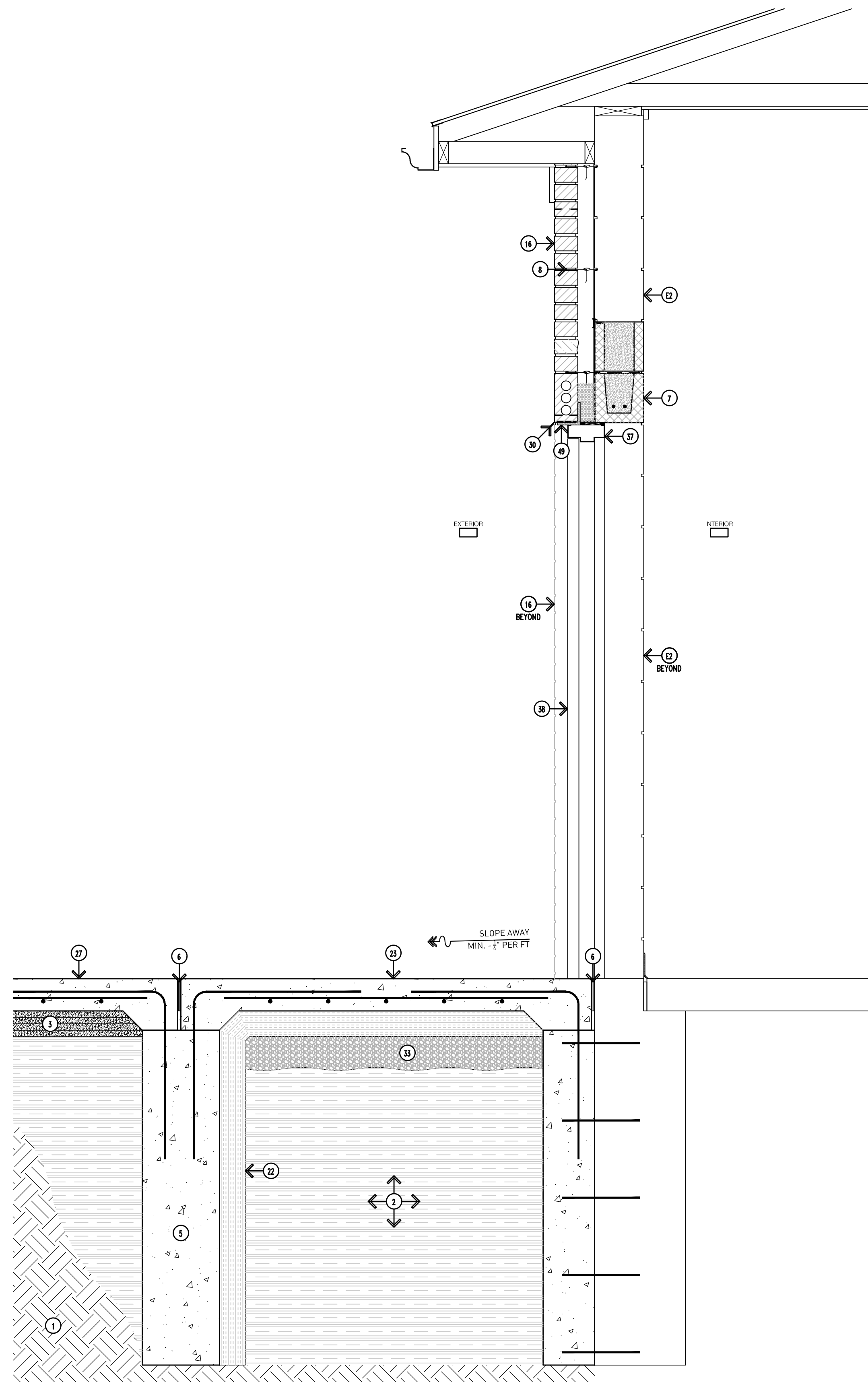
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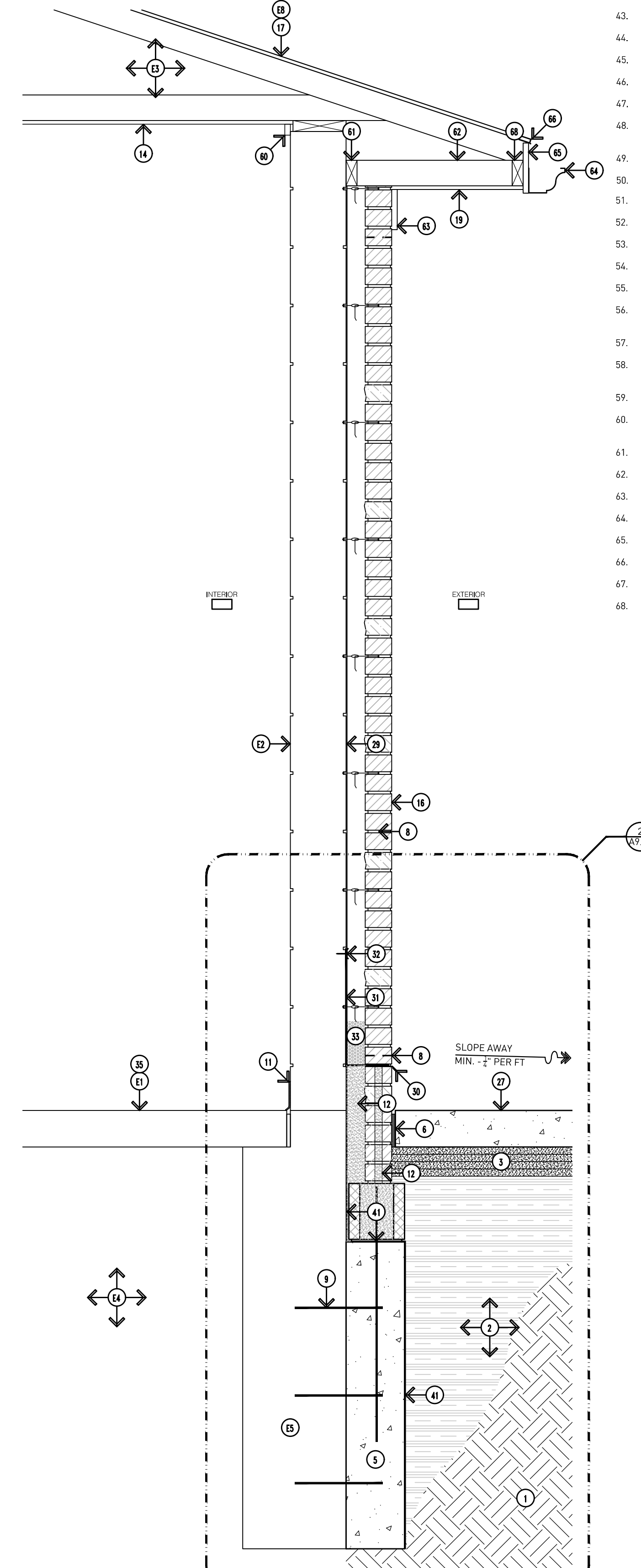
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**DRAWING NOTES:**

1. PROPERLY COMPACTED EXISTING SUBGRADE.
2. COMPACTED ENGINEERED FILL AS REQUIRED AFTER REMOVAL OF EXISTING LAWN / UNSUITABLE SOILS AS REQUIRED FOR PROPER SLAB ELEVATION.
3. COMPACTED SAND CUSHION BASE (MINIMUM 4").
4. SEALED CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.
5. CONCRETE FOUNDATION - REFER TO STRUCTURAL DRAWINGS.
6. 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT.
7. CMU MASONRY BLOCK (EPOXY PAINT ALL SURFACES EXPOSED TO VIEW).
8. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
9. REINFORCING - REFER TO STRUCTURAL DRAWINGS.
10. EPOXY FLOOR COATING WITH INTEGRAL 4" COVED BASE.
11. 4" RUBBER BASE.
12. GROUT BRICK/CMU CORES AND COLLAR JOINTS SOLID BELOW FLASHING, BELOW GRADE, AND WHERE INDICATED BY STRUCTURAL DRAWINGS.
13. 2" RIGID INSULATION BOARD MINIMUM 24" INSIDE BUILDING, AND VERTICALLY BEHIND FOUNDATION.
14. 1/2" GYP. BOARD ON WOOD TRUSSES.
15. SERVING WINDOW FRAMING AND GLAZING - REFER TO WINDOW SCHEDULE AND DETAILS.
16. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
17. ASPHALT SHINGLES ON 40 MIL SELF ADHERING LEAK BARRIER OVER THE EXISTING PLYWOOD ROOF SHEATHING.
18. 1/2" x 1 1/2" PLASTIC WEEP VENT WITH INSECT SCREEN AT BASE AND TOP OF WALL.
19. ALUMINUM SOFFIT, FULLY VENTED - REFER TO SPECIFICATIONS.
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21. 2" CRC MAIN RUNNER ATTACHED TO BUILDING STRUCTURE WITH GALVANIZED TIE WIRE (SPACED PER MANUFACTURER'S RECOMMENDATIONS).
22. INSULATION FORM - REFER TO STRUCTURAL DRAWINGS.
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**B2**  
A9.02 Building B: Exterior Wall Section  
Scale: 1"=1'-0"  
REFER TO B1/9.02 FOR TYPICAL NOTES



**B1**  
A9.02 Building B: Exterior Wall Section  
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Bidding and Permits: 20 March 2023

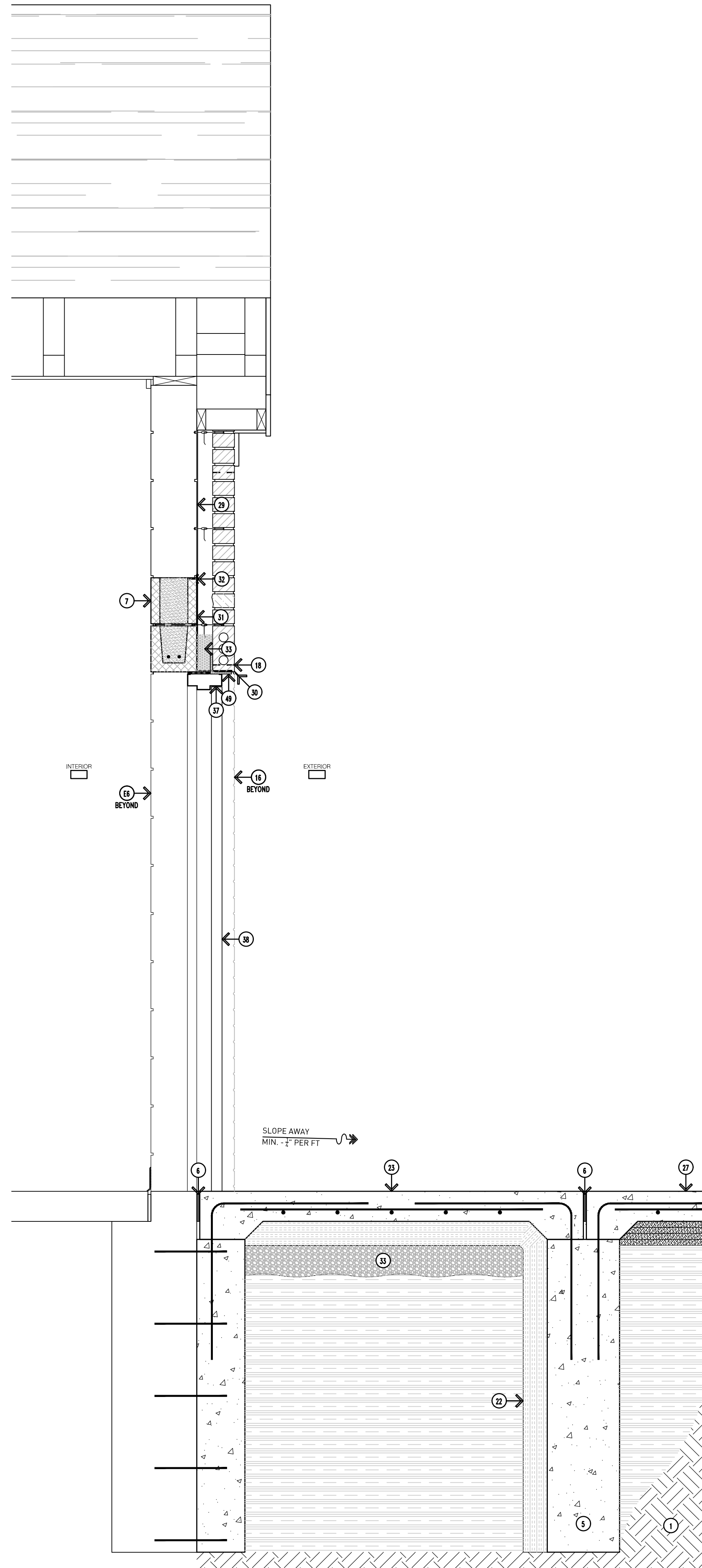
**Exterior Wall Sections - Building B**



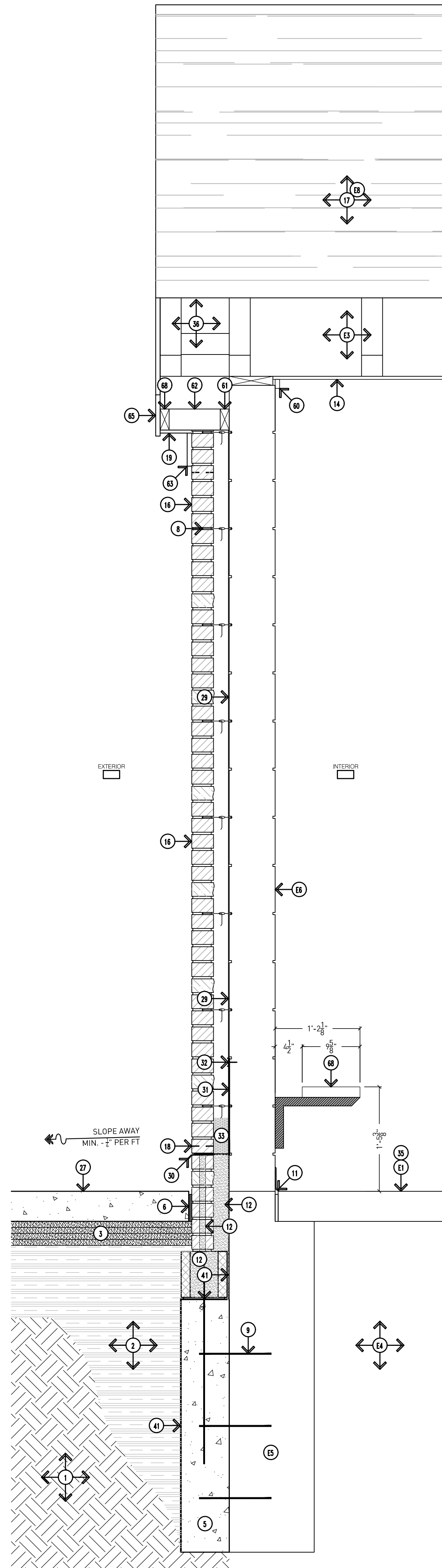
Crestwood School District  
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**A9.02**



**B4**  
A9.03 Building B: Exterior Wall Section  
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**B3**  
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Bidding and Permits: 20 March 2023

Exterior Wall Sections - Building B

ehresmanarchitects.com

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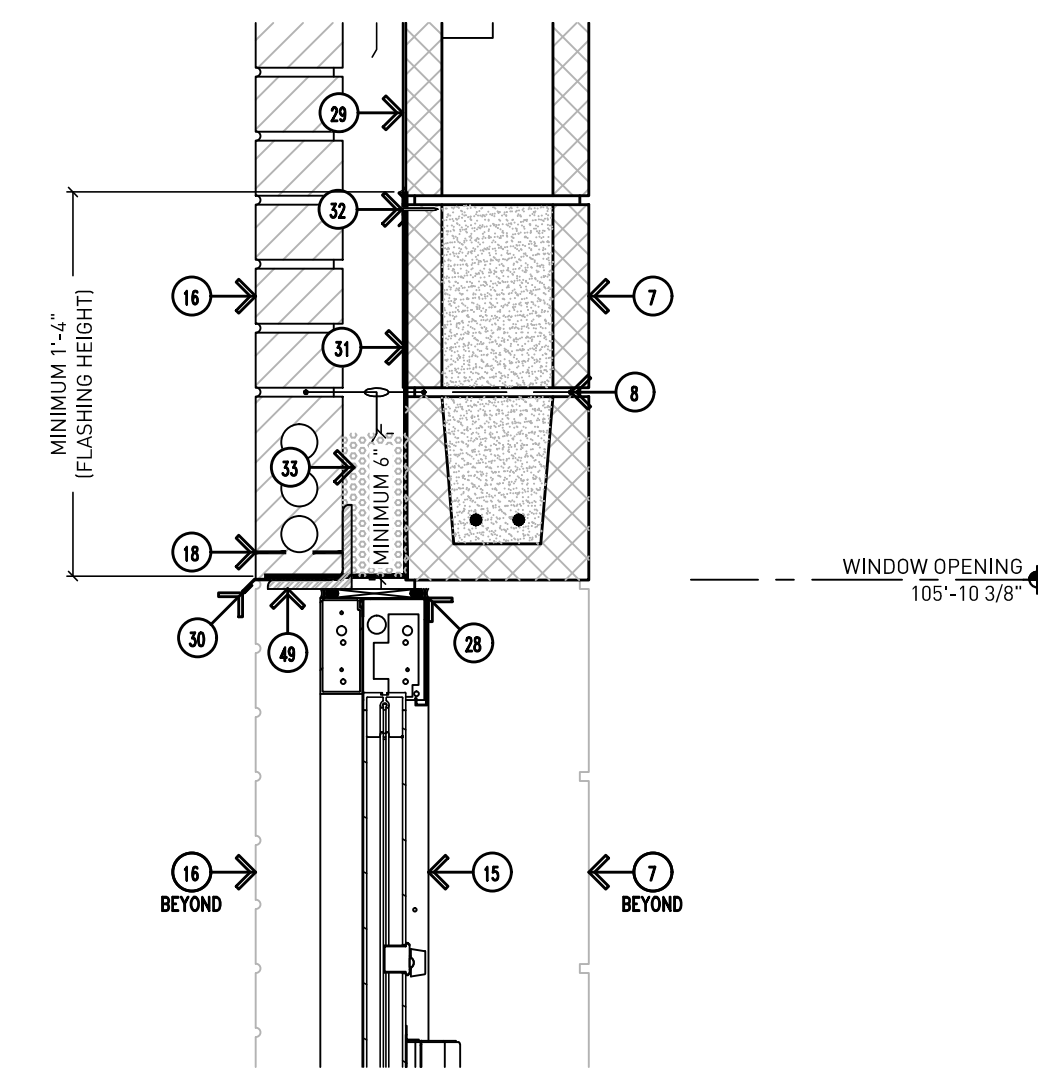
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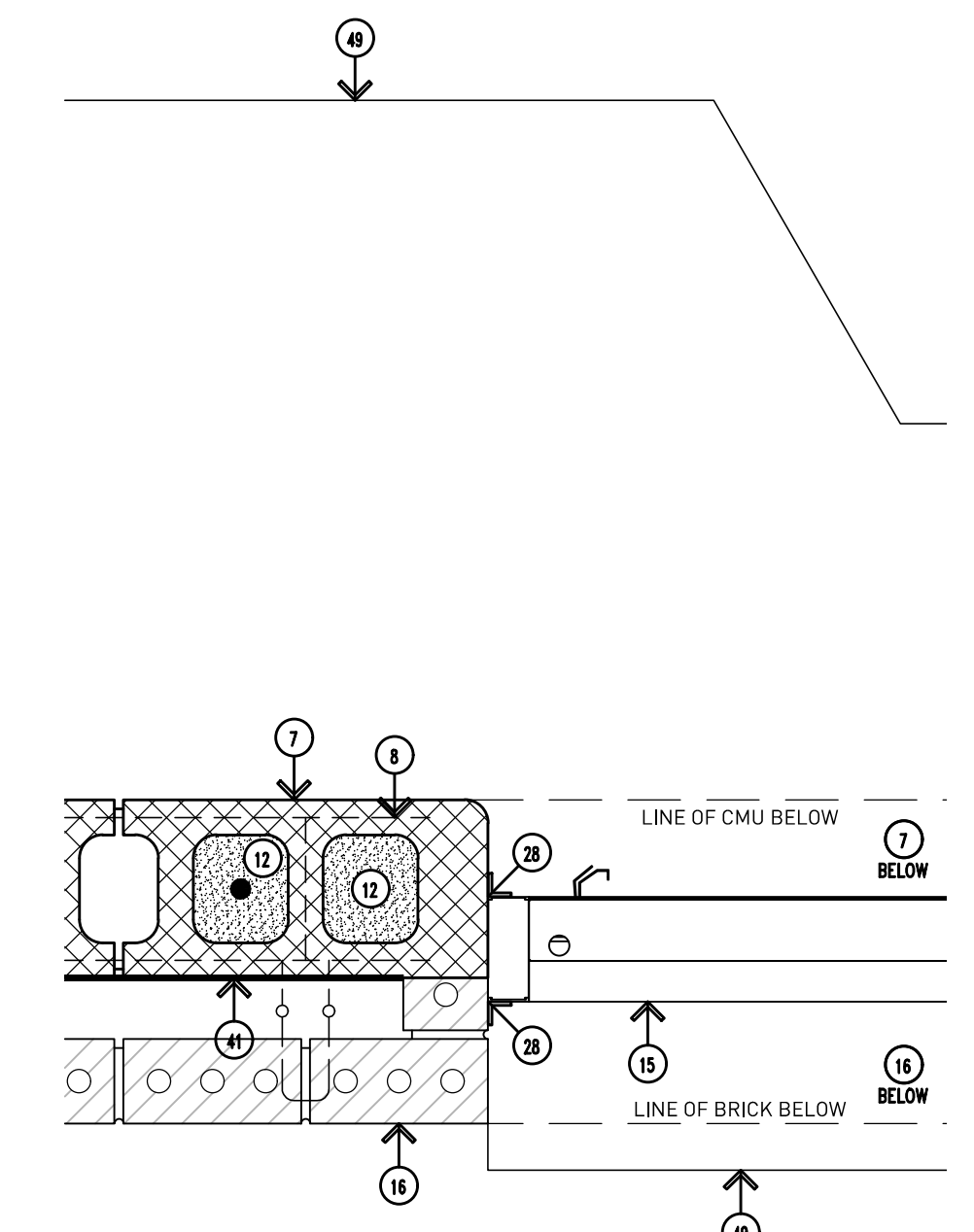
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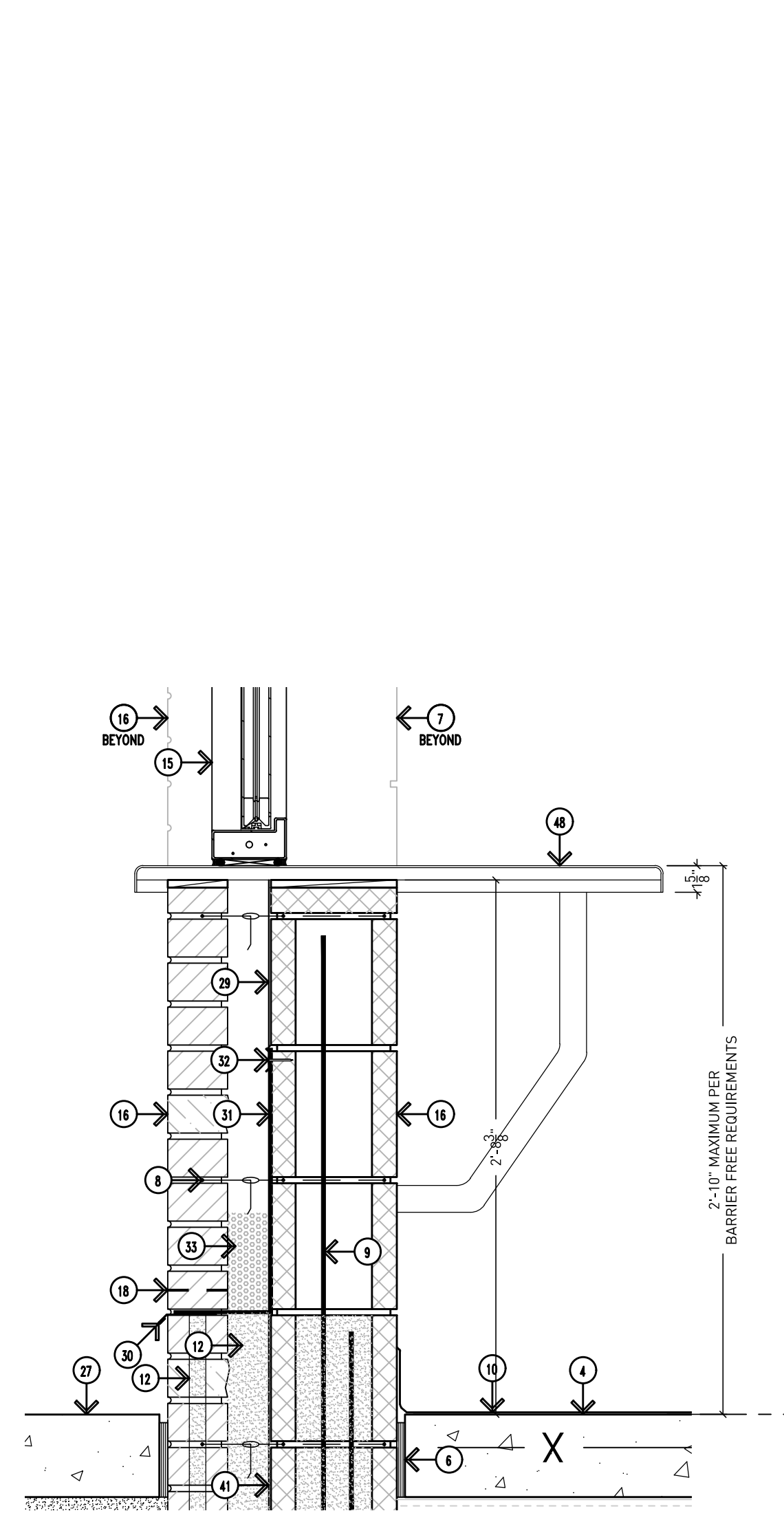
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13. 2" RIGID INSULATION BOARD MINIMUM 24" INSIDE BUILDING, AND VERTICALLY BEHIND FOUNDATION.
14. 1/2" GYP. BOARD ON WOOD TRUSSES.
15. SERVING WINDOW FRAMING AND GLAZING - REFER TO WINDOW SCHEDULE AND DETAILS.
16. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
17. ASPHALT SHINGLES ON 40 MIL SELF ADHERING LEAK BARRIER OVER THE EXISTING PLYWOOD ROOF SHEATHING.
18. 1/2" x 1 1/2" PLASTIC WEEP VENT WITH INSECT SCREEN AT BASE AND TOP OF WALL.
19. ALUMINUM SOFFIT, FULLY VENTED - REFER TO SPECIFICATIONS.
20. 1/2" CROSS FURRING SPACED PER MANUFACTURER'S RECOMMENDATIONS.
21. 2" CRC MAIN RUNNER ATTACHED TO BUILDING STRUCTURE WITH GALVANIZED TIE WIRE (SPACED PER MANUFACTURER'S RECOMMENDATIONS).
22. INSULATION FORM - REFER TO STRUCTURAL DRAWINGS.
23. 5" CONCRETE FROST SLAB -- SLOPE AWAY FROM BUILDING MINIMUM 1/2" PER FOOT.
24. RECESSED LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS.
25. STEEL LINTEL WITH PLATE, PAINT -- REFER TO STRUCTURAL DRAWINGS.
26. 2" x 8" PRESERVATIVE TREATED WOOD PLATE.
27. CONCRETE SIDEWALK OR PLAZA PAVING - REFER TO CIVIL DRAWINGS.
28. SEALANT (WITH FOAM BACKER ROD AS NECESSARY TO SUIT CONDITIONS).



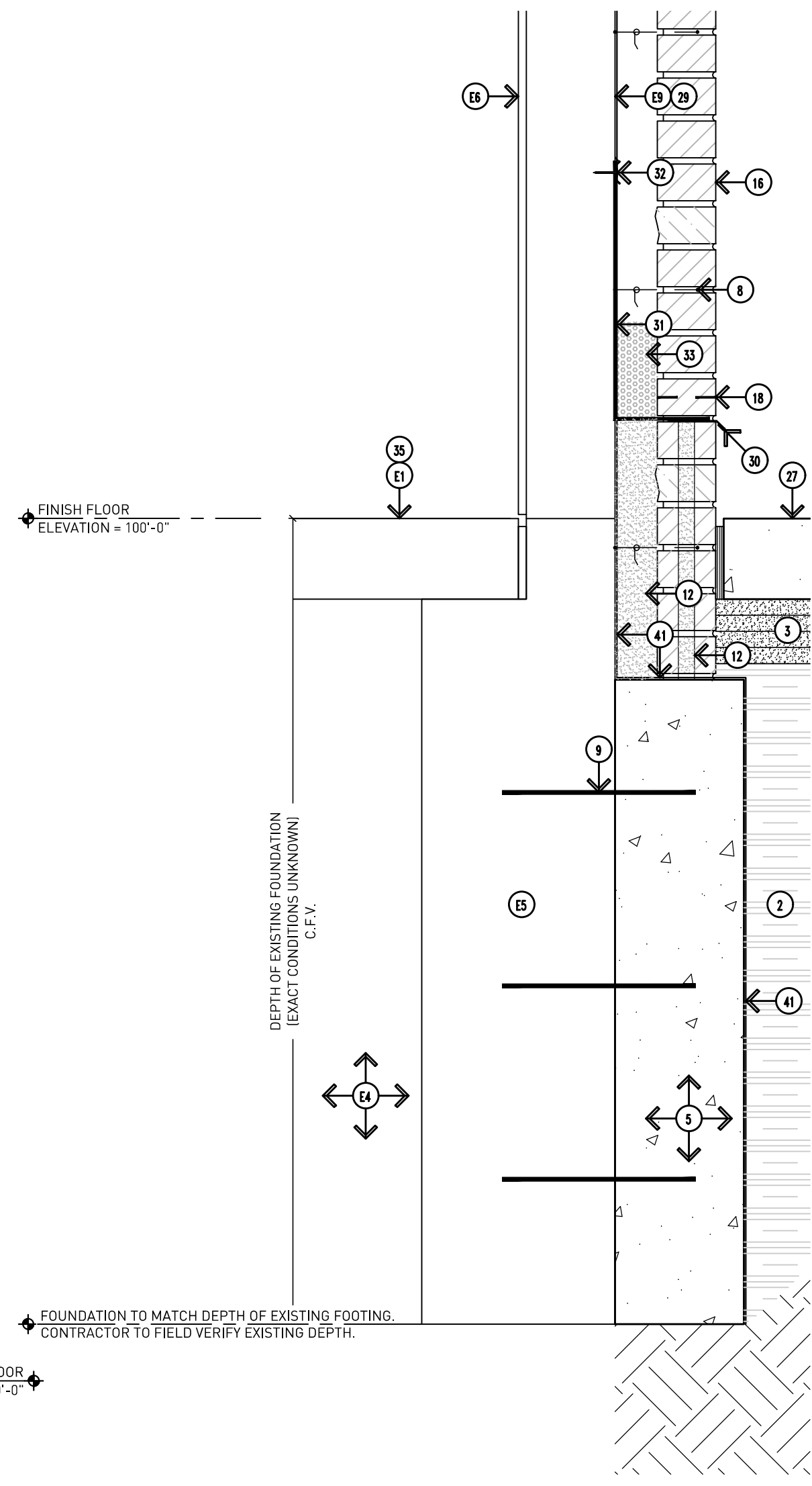
**5** Building A: Typical Serving Window Head (Area 1)  
Scale: 1-1/2"=1'-0"



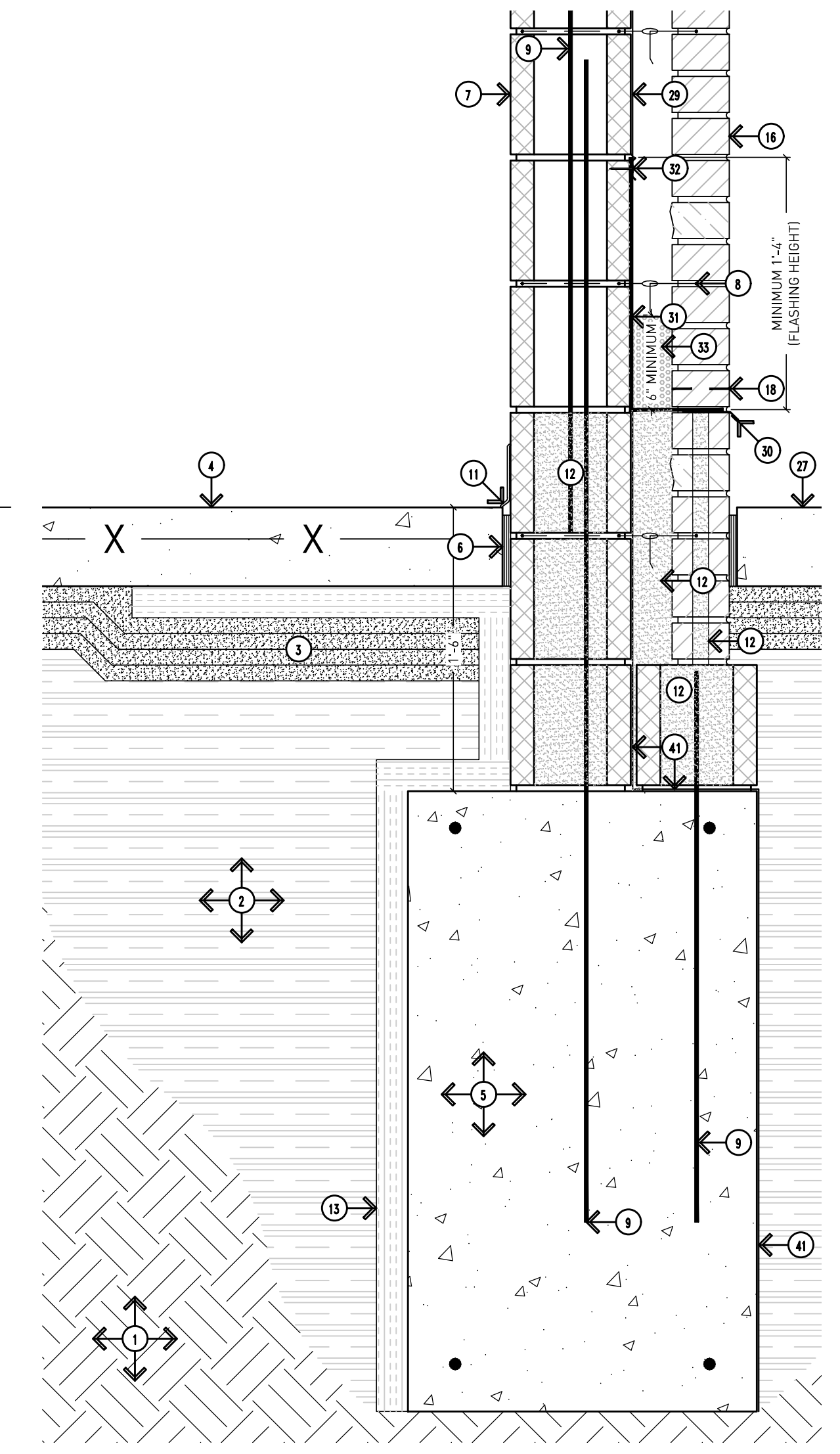
**4** Building A: Typical Serving Window Jamb (Area 1)  
Scale: 1-1/2"=1'-0"



**3** Building A: Typical Serving Window Sill (Area 1)  
Scale: 1-1/2"=1'-0"



**2** Building A: Typical Base of Wall (Area 2)  
Scale: 1-1/2"=1'-0"



**1** Building A: Typical Base of Wall (Area 1)  
Scale: 1-1/2"=1'-0"

Bidding and Permits: 20 March 2023



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

**DRAWING NOTES (CONTINUED):**

29. CONTINUOUS SPRAY-APPLIED VAPOR BARRIER FROM FOUNDATION TO ROOFING.
30. STAINLESS STEEL METAL DRIP WITH HEMMED EDGE.
31. FULLY ADHERED FLEXIBLE MEMBRANE FLASHING WITH END DAMS.
32. TERMINATION BAR WITH TOP SEALANT--INSTALL PER MANUFACTURER'S REQUIREMENTS.
33. PEA STONE DRAINAGE MATERIAL (MINIMUM 6" HEIGHT).
34. VERTICAL ALUMINUM SIDING - REFER TO SPECIFICATIONS.
35. SEAL EXISTING CONCRETE FLOOR - REFER TO FINISH SCHEDULE.
36. PREFABRICATED WOOD TRUSSES - REFER TO STRUCTURAL DRAWINGS FOR SPACING.
37. HM DOOR FRAME - REFER TO DOOR SCHEDULE.
38. FRP DOOR - REFER TO DOOR SCHEDULE.
39. JAMB ANCHOR TO SUIT CONDITIONS.
40. GROUT FILLED DOOR FRAME.
41. ADHESIVE APPLIED WATERPROOFING - REFER TO SPECIFICATIONS.
42. LINE OF GRADE.
43. ISOLATION GASKET.
44. HEAVY DUTY PREFINISHED ALUMINUM COVER PLATE.
45. MOISTURE BARRIER MEMBRANE ATTACHED TO BUILDING STRUCTURE.
46. 1/2" Ø ANCHOR BOLT, 1'-4" LONG, 4" O.C.
47. 2 HOUR FIRE BARRIER.
48. STAINLESS STEEL COUNTERTOP - REFER TO FOOD SERVICE DRAWINGS FOR FURTHER INFORMATION.
49. STEEL ANGLE - REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
50. OVERHEAD DOOR MOTOR.
51. OVERHEAD DOOR METAL TRACK.
52. METAL TRACK BRACKET.
53. ROLLER AXLE.
54. ROLLER AXLE BRACKET ATTACHED TO OVERHEAD DOOR.
55. STEEL ROLLER.
56. CUSTOM STEEL CHANNEL (PRIME AND PAINT) - REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
57. O/H DOOR - REFER TO DOOR SCHEDULE FOR FURTHER INFORMATION.
58. 1 1/2" x 1 1/2" x 1/2" STRAP ANCHOR @ 24" O.C. VERTICALLY--WELD TO CHANNEL WITH HOOK IN GROUT.
59. GROUT SOLID.
60. WOOD TRIM 3/4" x 1-1/2" - CONTINUOUS AT PERIMETER - ALL ROOMS, PAINTED TO MATCH CEILING.
61. 2 x 4 LEDGER.
62. 2" x 4" LOOKOUT.
63. 1" x 6" WOOD TRIM BOARD - WITH ALUMINUM TRIM.
64. PREFINISHED ALUMINUM GUTTER.
65. 1" x 4" WOOD FASCIA - WITH ALUMINUM TRIM.
66. PREFINISHED ALUMINUM DRIP EDGE.
67. 2 x 4 BLOCKING.
68. HEAVY DUTY RATED, STEEL FRAMED WALL MOUNTED BENCH WITH ALUMINUM SEAT.

**GENERAL NOTES:**

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. NOT ALL NOTES ARE APPLICABLE TO THIS SHEET.
- G3. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- G4. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- G5. PROVIDE MASONRY WEEPHOLES @ 32" O.C. HORIZONTALLY COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
- G6. MASONRY CONTROL JOINTS SHOULD BE SPACED 25'-0" APART MAX. AND SHOULD NOT BE SPACED FURTHER THAN 1.5x THE WALL HEIGHT - REFER TO THE MASONRY INSTITUTE FOR FURTHER INFORMATION.
- G7. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS, DIMENSIONS, ACCESS, ETC. PRIOR TO BIDDING AND STARTING WORK.
- G8. NEW PLYWOOD THICKNESS TO MATCHING EXISTING (C.F.V.)
- G9. RESTORE EXISTING PAVING, LANDSCAPING, LAWN, ETC. TO ORIGINAL CONDITIONS IF DAMAGED DURING CONSTRUCTION OPERATIONS.
- G10. REFER TO SPECIFICATIONS FOR SHINGLE TYPE, ALTERNATIVES, ETC.
- G11. CONTRACTOR TO INVESTIGATE EXISTING PLYWOOD SHEATHING FOR STRUCTURAL SOUNDNESS. IF IT IS DETERMINED THAT REPLACEMENT IS REQUIRED, THE CONTRACT WILL BE ADJUSTED ACCORDINGLY VIA CHANGE ORDER AT THE UNIT PRICES INCLUDED ON THE PROPOSAL FORM. CONTRACTOR TO MATCH EXISTING THICKNESS (C.F.V.)
- G12. INTENT IS FOR ENTIRE ROOF DECK TO BE COVERED WITH SELF-ADHERING LEAK BARRIER.

**EXISTING TO REMAIN NOTES:**

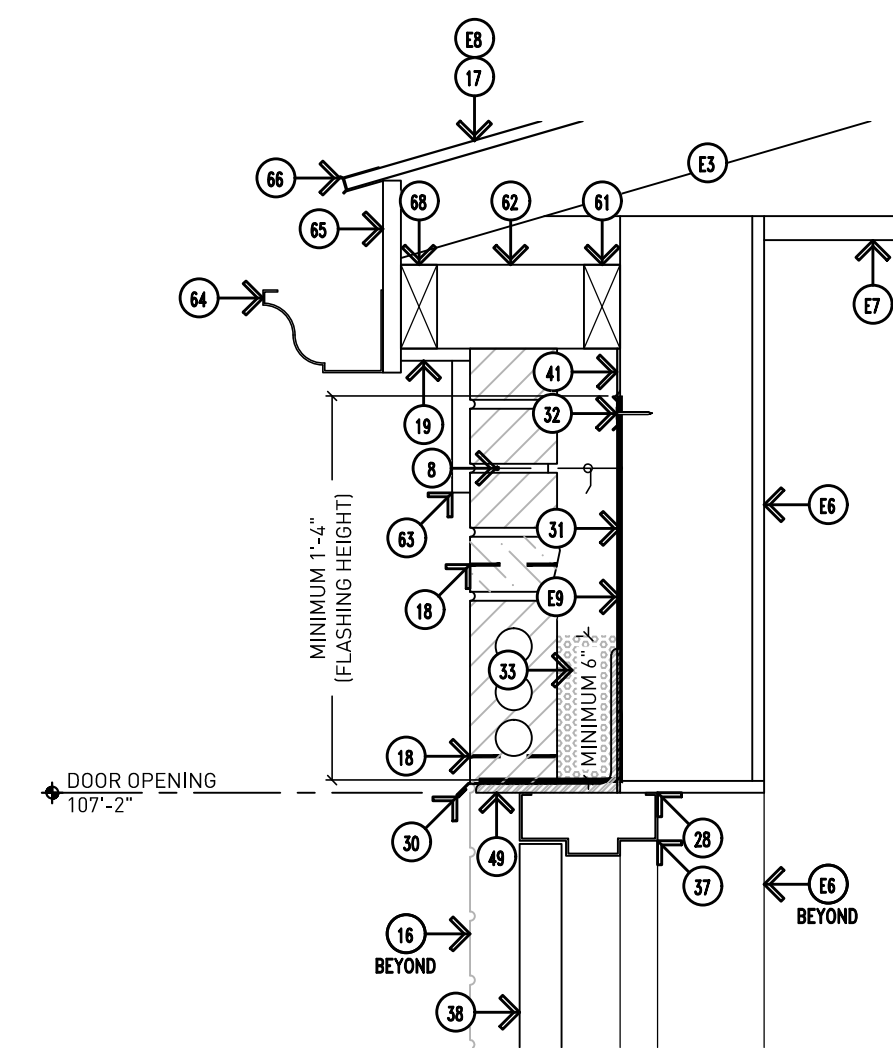
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**REMOVAL NOTES:**

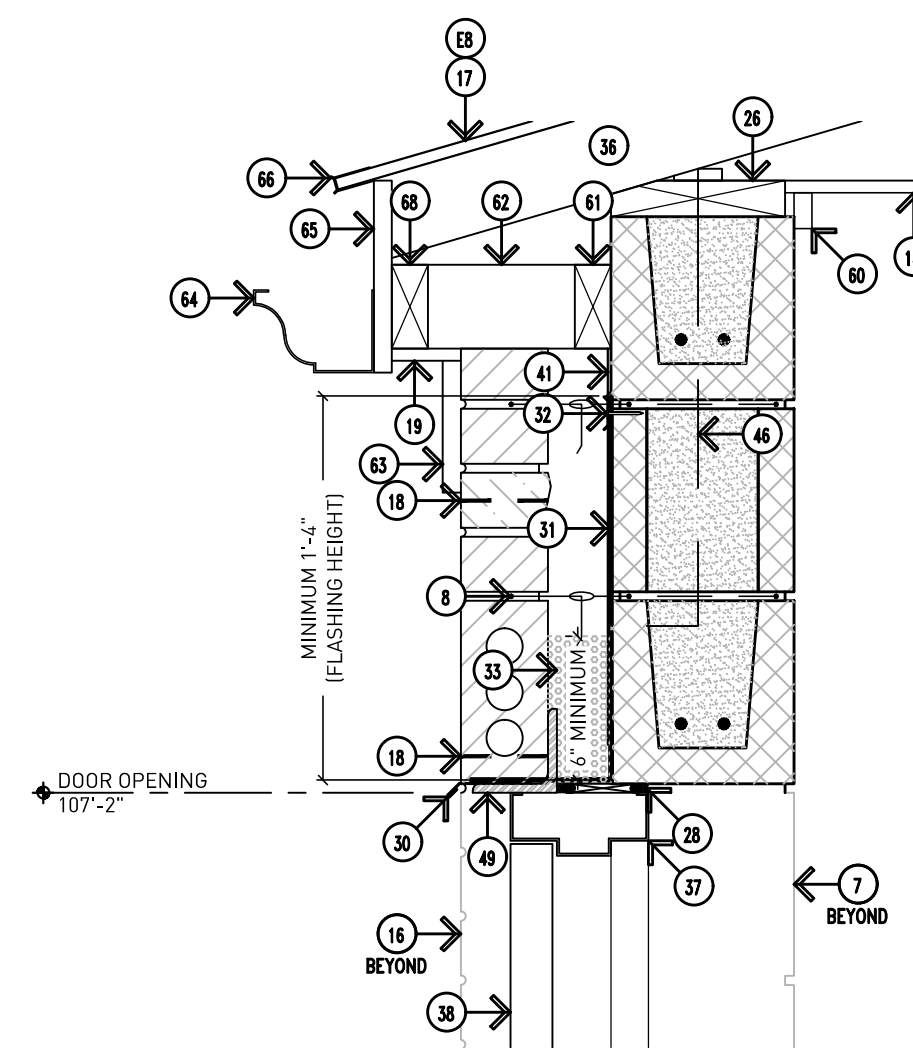
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**DRAWING NOTES:**

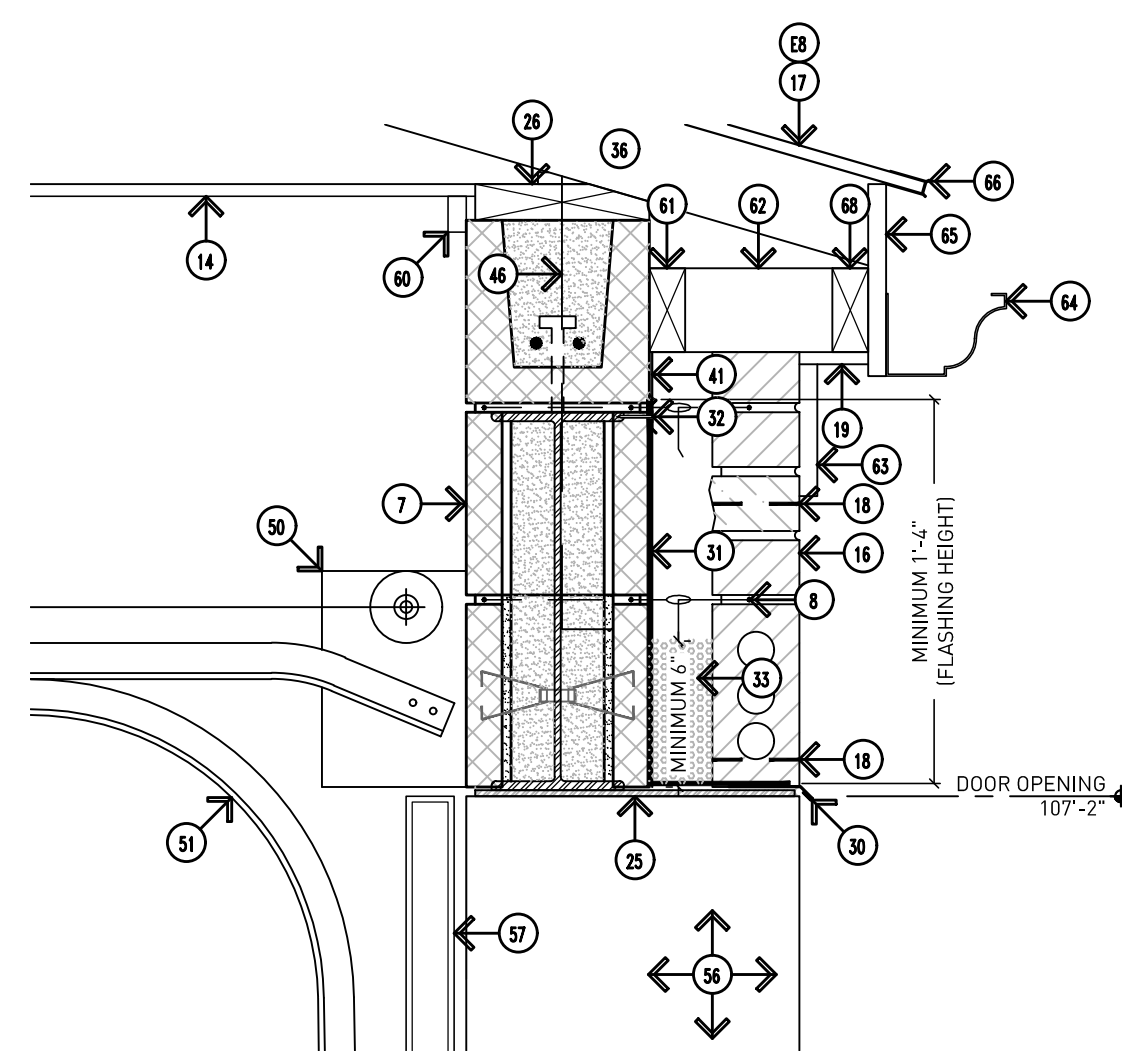
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3. COMPACTED SAND CUSHION BASE (MINIMUM 4").
4. SEALED CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.
5. CONCRETE FOUNDATION - REFER TO STRUCTURAL DRAWINGS.
6. 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT.
7. CMU MASONRY BLOCK (EPOXY PAINT ALL SURFACES EXPOSED TO VIEW).
8. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
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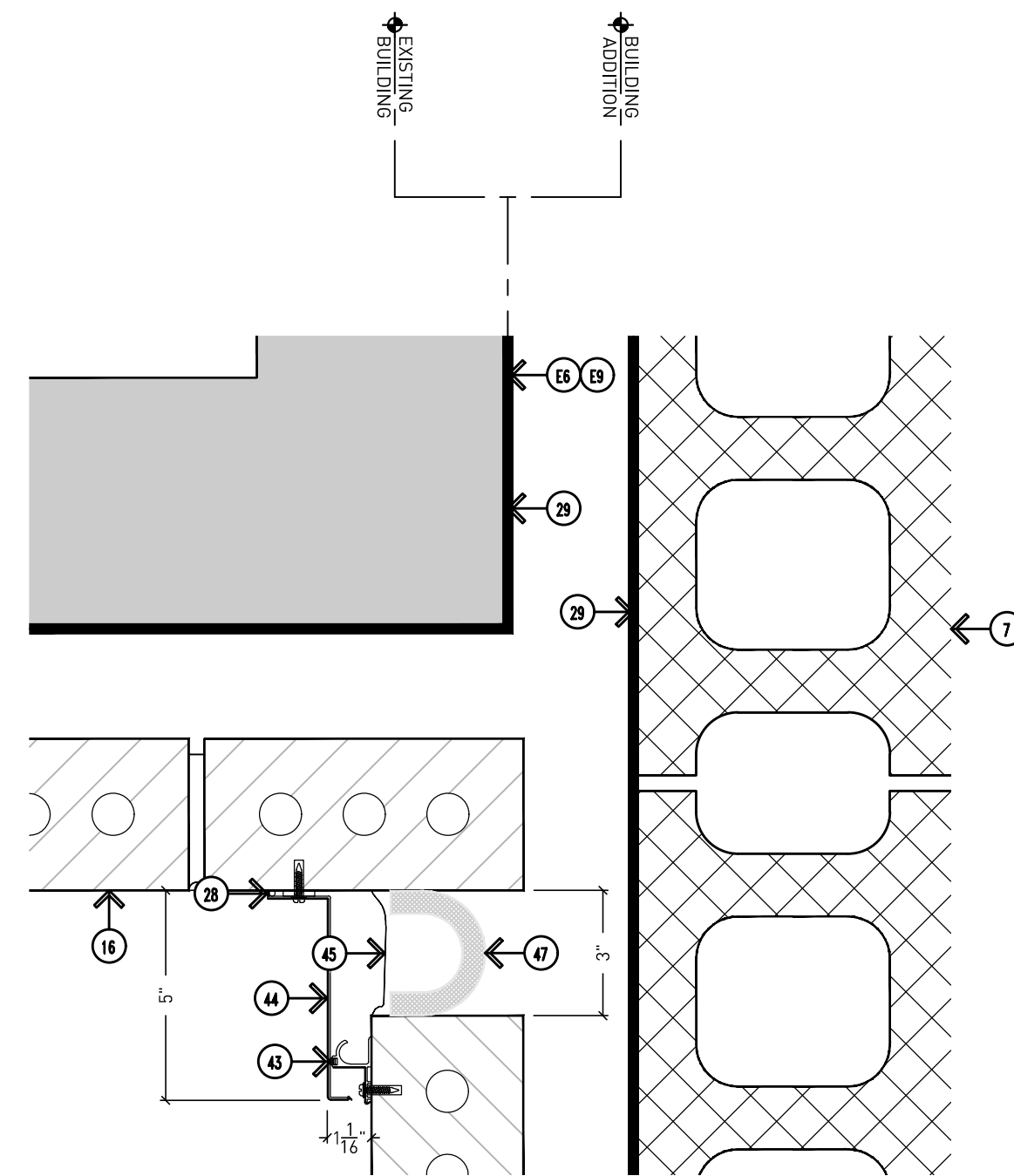
8 Building A: Typical Door Head (Area 2)  
Scale: 1-1/2"=1'-0"



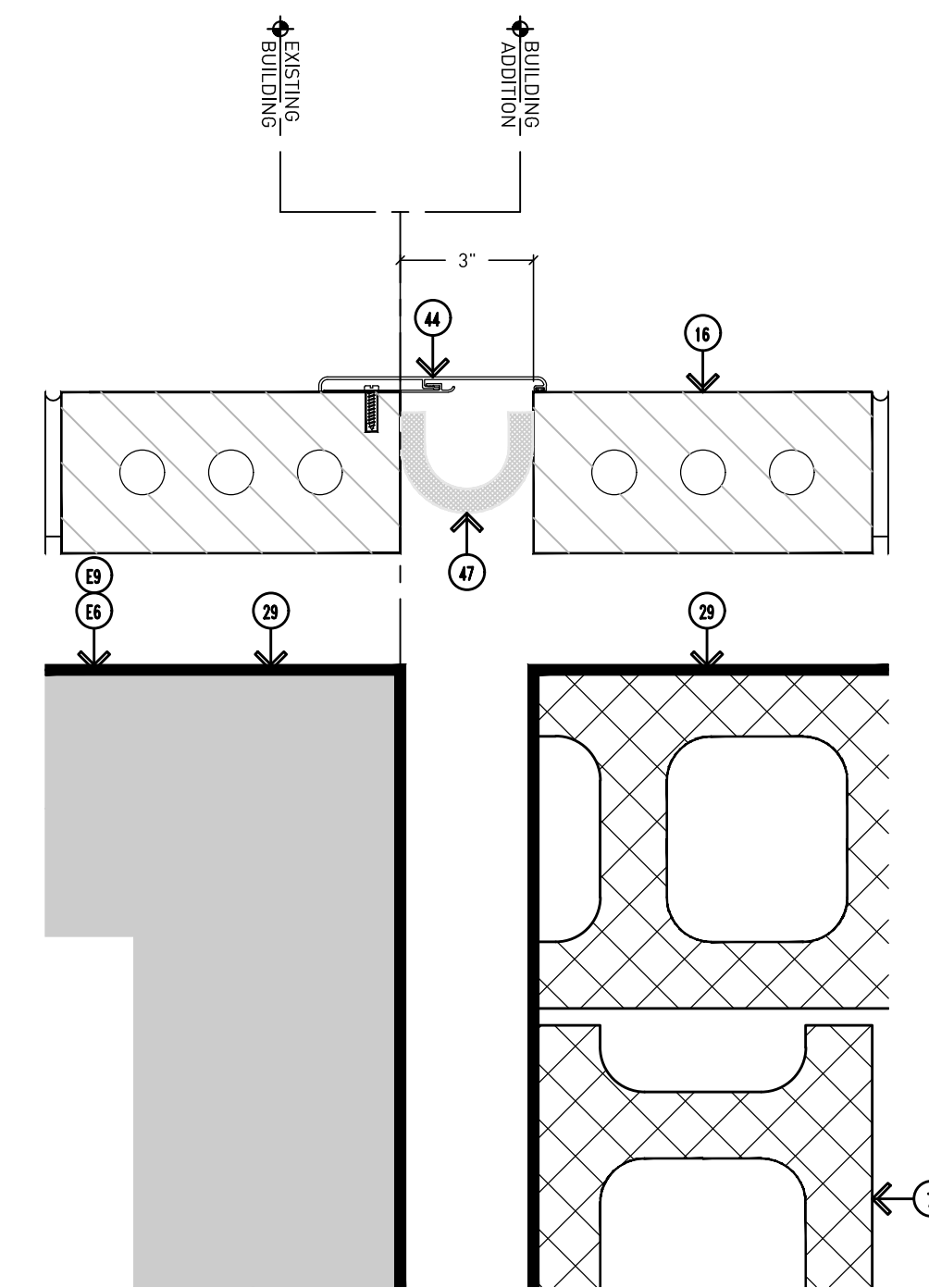
7 Building A: Typical Door Head (Area 1)  
Scale: 1-1/2"=1'-0"



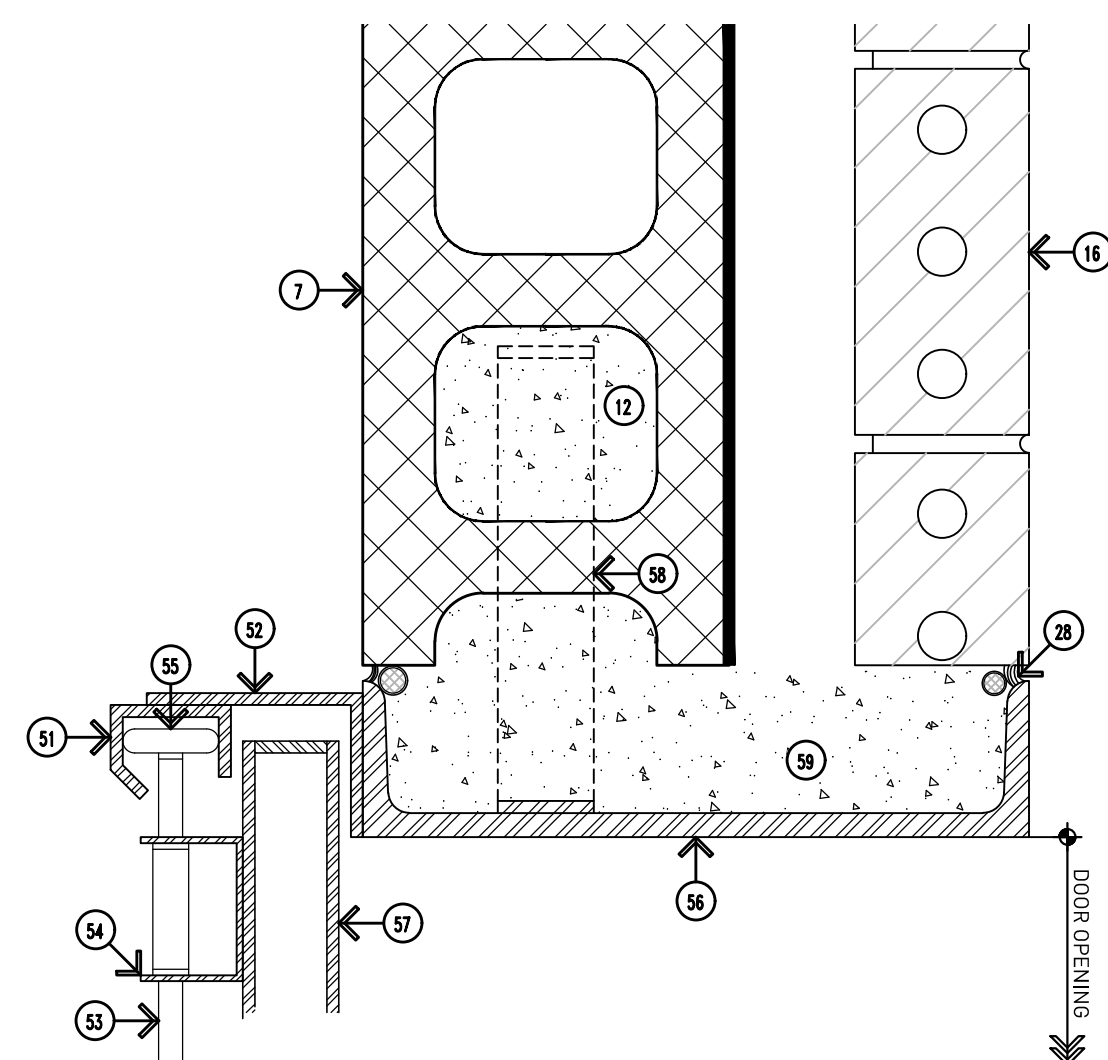
6 Building A: Typical O/H Door Jamb (Area 1)  
Scale: 1-1/2"=1'-0"



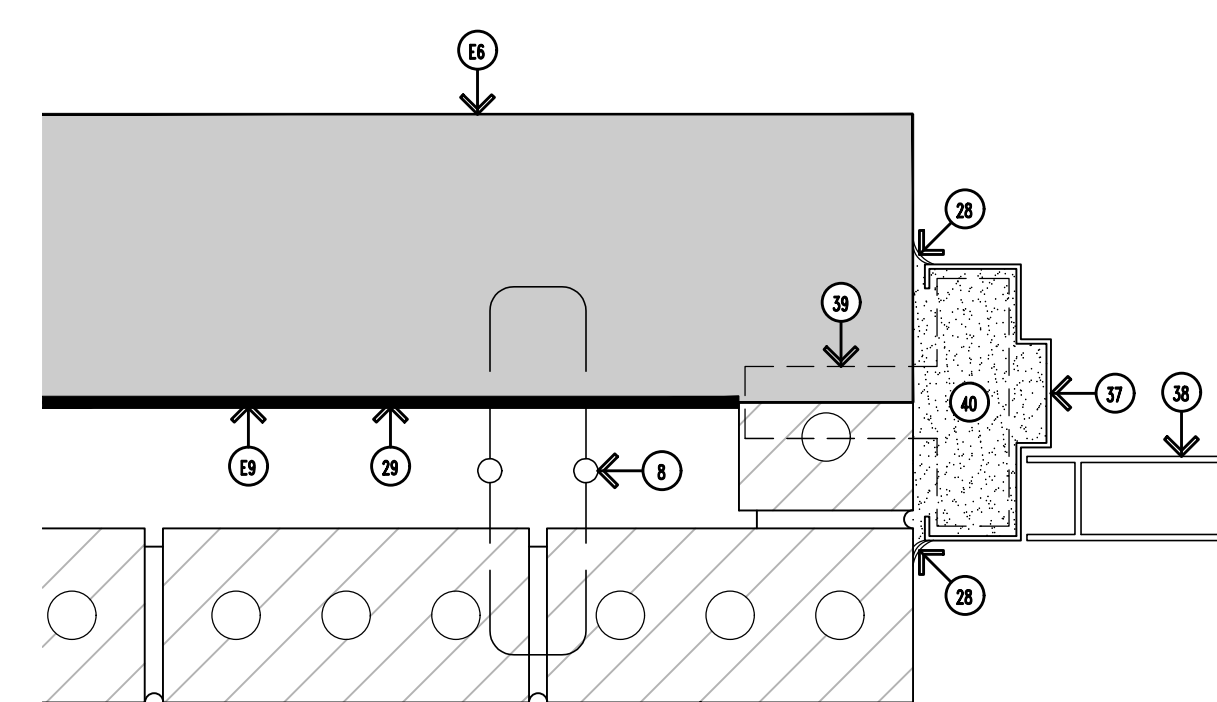
5 Building A: Typical Control Joint (South)  
Scale: 3"=1'-0"  
REFER TO MM SYSTEMS SERIES WJL 2-1 FOR FURTHER INFORMATION ON WALL EXPANSION DETAIL.



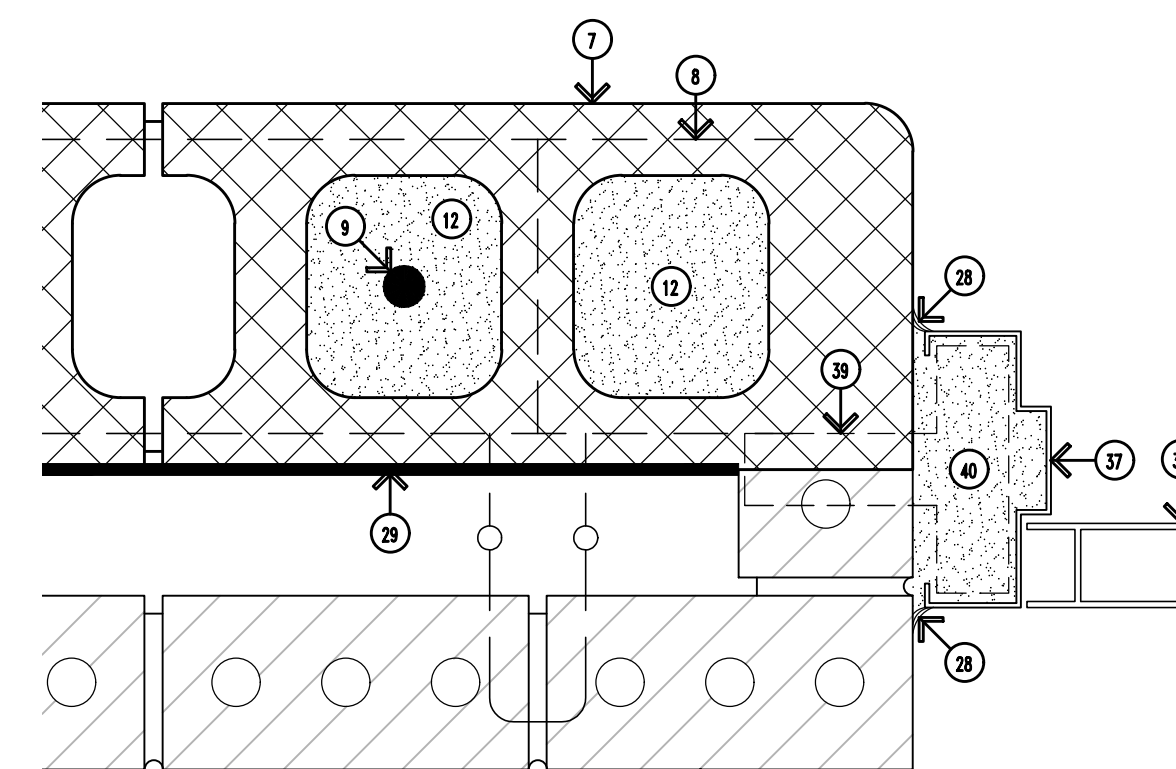
4 Building A: Typical Control Joint (North)  
Scale: 3"=1'-0"  
REFER TO MM SYSTEMS SERIES EX-K FOR FURTHER INFORMATION ON WALL EXPANSION DETAIL.



3 Building A: Typical O/H Door Jamb (Area 1)  
Scale: 3"=1'-0"



2 Building A: Typical Door Jamb (Area 2)  
Scale: 3"=1'-0"



1 Building A: Typical Door Jamb (Area 1)  
Scale: 3"=1'-0"

Bidding and Permits: 20 March 2023

**Exterior Details**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

A9.11



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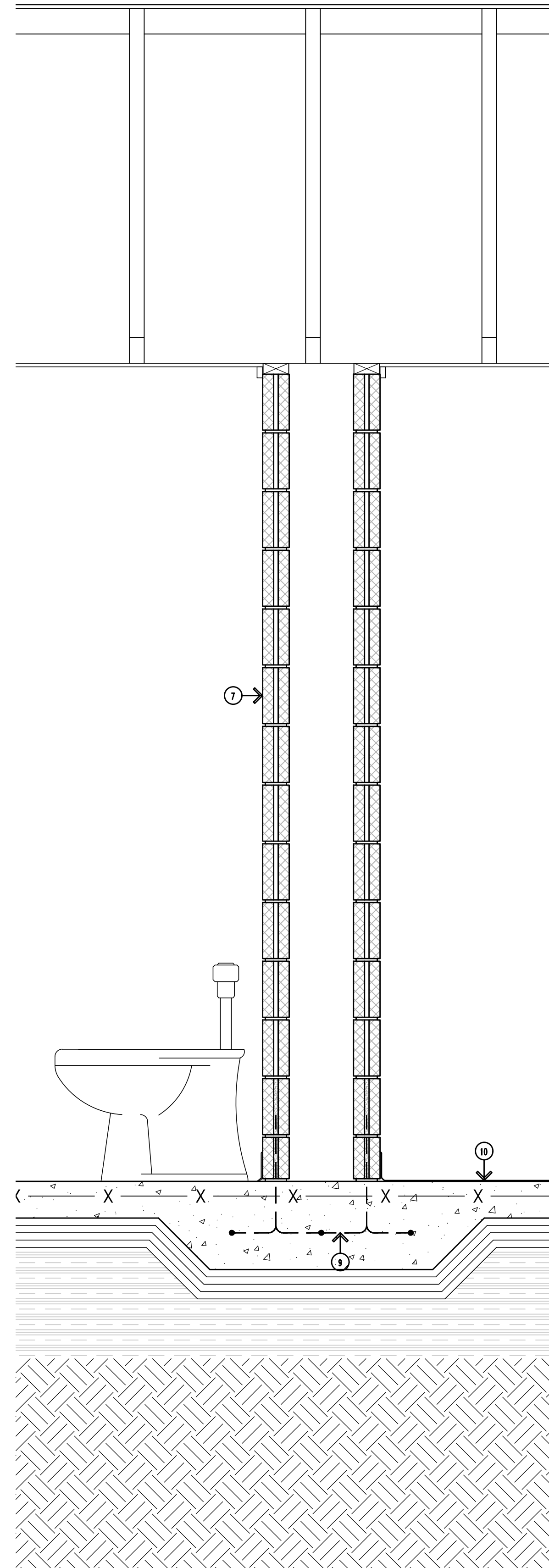
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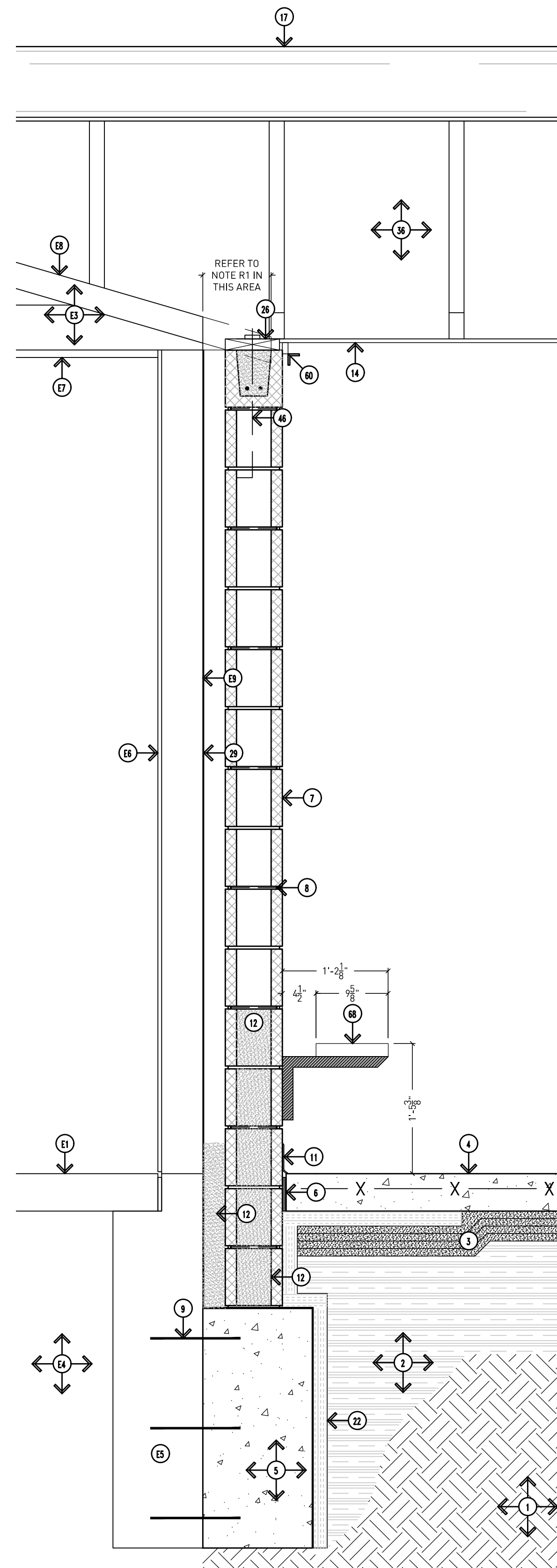
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28. SEALANT (WITH FOAM BACKER ROD AS NECESSARY TO SUIT CONDITIONS).



**A2** Building A: Area 1 Interior Wall Section  
**A9.50** Scale: 1"=1'-0"  
 REFER TO 1/9.50 FOR TYPICAL NOTES



**A1** Building A: Area 2 Interior Wall Section  
**A9.50** Scale: 1"=1'-0"

**Interior Wall Sections**

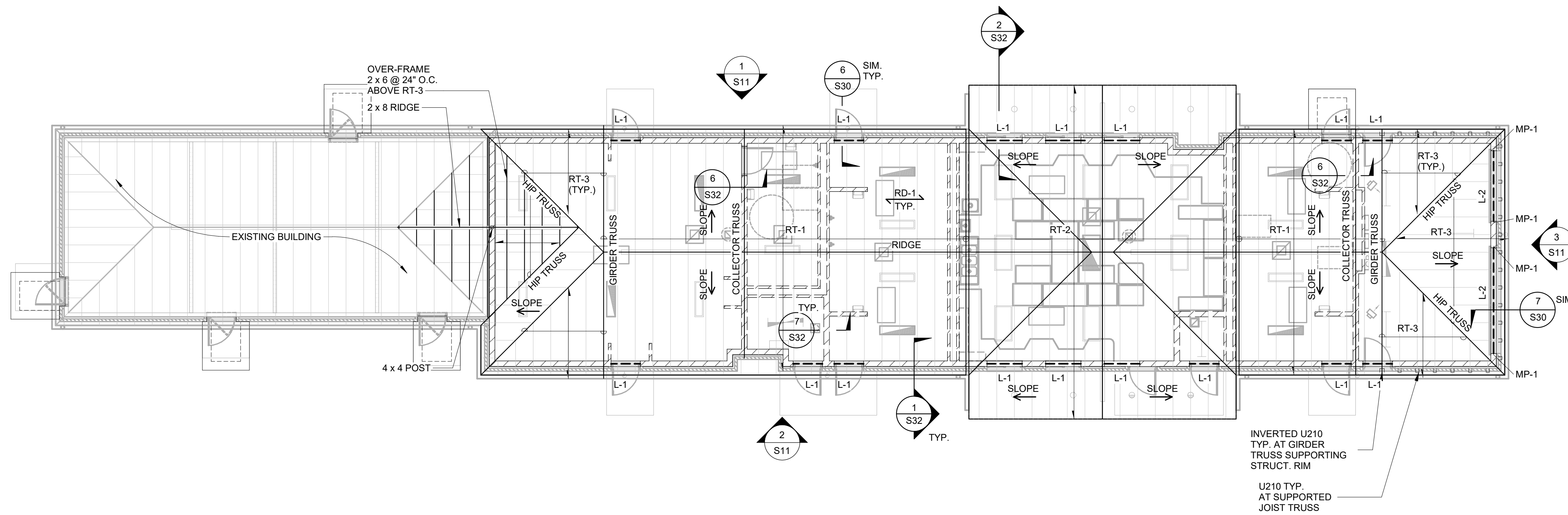


Crestwood School District  
 Crestwood High School  
 Field Building & Site Improvements









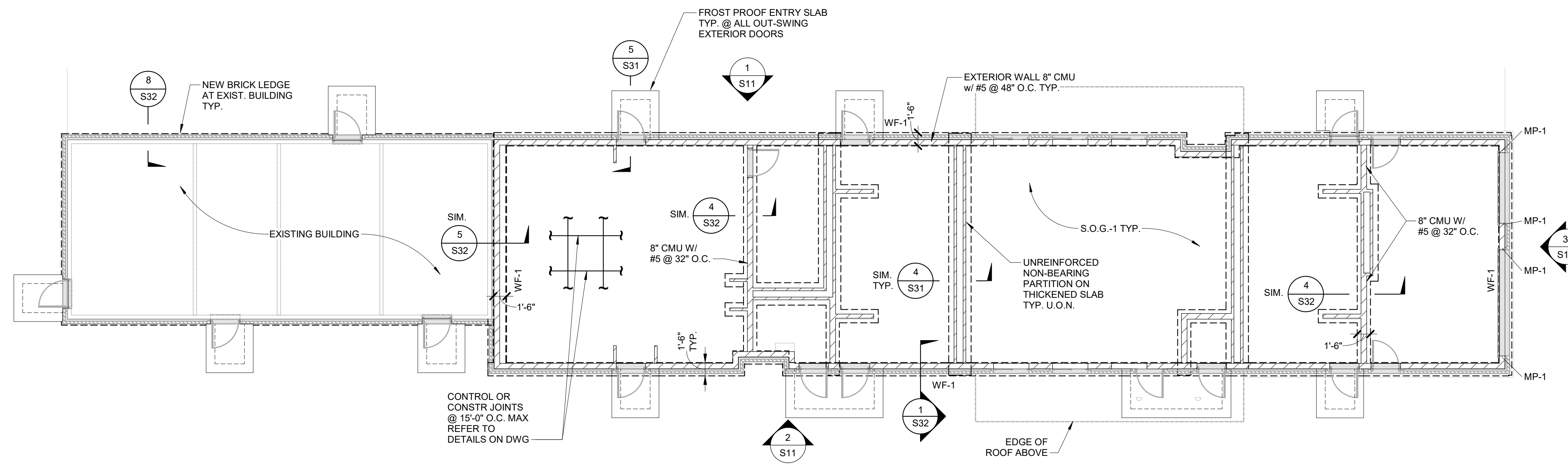
**ROOF FRAMING NOTES:**

- DESIGNATIONS:**
  - RD-1: 3/4" EXTERIOR GRADE STRUCTURAL SHEATHING, ORIENTED PERPENDICULAR TO FRAMING.
  - L-1: 16" DEEP BOND BEAM REINFORCED WITH (2) #5 CONT. 8" MIN. BEARING. + L 3 1/2 x 3 1/2 x 3/8 LOOSE LINTEL; 8" MIN. BEARING. REFER TO S301
  - L-2: W16x26 W/ 3/8" CONT. BOTT. PLATE REFER TO S301 W/ BP-1 AT EACH END
  - BP-1: BEARING PLATE, 7x7x1/2" WITH (2) 1/2" DIA. x 6" LONG HEADED STUDS (TYP.)
  - RT-X: PRE-ENGINEERED ROOF TRUSSES @ 24" O.C. MAX. REFER TO S303
- ALL TRUSSES SHALL BE DESIGNED FOR A NET UPLIFT OF 12 PSF (ASD), IN ADDITION TO OTHER LOAD CASES AND ANY OTHER NON-UNIFORM LOADS INDICATED ON THE DRAWINGS.
- COORDINATE SIZES AND LOCATION OF ALL ROOF OPENINGS WITH ARCHITECTURAL AND MEP DRAWINGS.
- VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- ALL STEEL OUTSIDE THE CONDITIONED SPACE AND EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL FOR ALL AND ANY OTHER STEEL TO BE GALVANIZED.
- PROVIDE BOND BEAM WITH (2) #5 CONT. ABOVE ALL BEARING AND NON-BEARING WALLS (TYP.)
- REFERENCE DRAWINGS:**
  - S001 & S002 GENERAL STRUCTURAL NOTES
  - S003 SPECIAL INSPECTION SCHEDULES
  - S301 TYPICAL MASONRY DETAILS
  - S302 TYPICAL CONCRETE DETAILS
  - S303 SECTIONS & DETAILS

**1 BUILDING A ROOF FRAMING PLAN**  
1/8" = 1'-0"



33533 W 12 MILE, SUITE 200  
FARMINGTON HILLS, MI 48331  
248.344.2800 FAX: 248.344.1650  
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**FOUNDATION NOTES:**

- REFERENCE FINISHED FLOOR ELEVATION = 100'-0"
- TOP OF FOOTING ELEVATION = -1'-6" UNLESS NOTED THUS [XX-XX"]
- FOOTING ARE DESIGNED TO BEAR ON FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL BASED ON PRESUMPTIVE MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2,000 PSF. CONTRACTOR TO VERIFY IN FIELD.
- CONTRACTOR SHALL COORDINATE ALL MASONRY DOWEL SIZES AND SPACING TO BE CAST INTO CONCRETE WITH MASONRY REINFORCING SHOP DRAWINGS.
- REFER TO CIVIL/SITE DRAWINGS FOR PROPOSED GRADE ELEVATIONS AROUND THE PERIMETER OF THE BUILDING.
- REFER TO MEP DRAWINGS FOR ALL PIPE AND CONDUIT SIZES AND LOCATIONS PASSING THROUGH AND/OR UNDER FOUNDATIONS.
- VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- THICKEN THE FOOTINGS AT EXTERIOR TO MEET -3'-6" BELOW FINISHED GRADE.
- DESIGNATIONS:**
  - WF-1: 1'-6" WIDE x 3'-6" (MIN.) DEPTH WALL FOOTING REINF. W/ (2) #5 CONT. TOP & BOTT.
  - MW-1: 8" CMU WALL WITH #5 @ 48" O.C. PROVIDE BOND BEAMS WITH (2)#5 HORIZONTAL BARS AT TOP OF WALL AND BEAM/JOIST BEARING ELEV. PROVIDE (3) #5 VERTICAL BARS, ONE PER CELL, AT CORNERS AND (2) #5 VERTICAL BARS, ONE PER CELL, AT OPENINGS IN WALLS, ENDS OF WALLS AND BELOW BEAM/JOIST POCKETS.
  - MP-1: MASONRY PIER - REFER TO SCHEDULE
  - S.O.G.-1: 5" SLAB ON GRADE WITH 6x6-W2.9xW2.9 W.W.F. PLACED @ 2" FROM TOP OF SLAB ON VAPOR RETARDER ON MIN. 4" COMPACTED GRANULAR FILL ON PREPARED SUB-GRADE (TYP. UNO)
- REFERENCE DRAWINGS:**
  - S001 & S002 GENERAL STRUCTURAL NOTES
  - S003 SPECIAL INSPECTION SCHEDULES
  - S301 TYPICAL MASONRY DETAILS
  - S302 TYPICAL CONCRETE DETAILS
  - S303 SECTIONS & DETAILS

**2 BUILDING A FOUNDATION PLAN**  
1/8" = 1'-0"

Bidding and Permits 20 March, 2023

**STRUCTURAL PLANS**



CRESTWOOD HS FIELD BUILDING

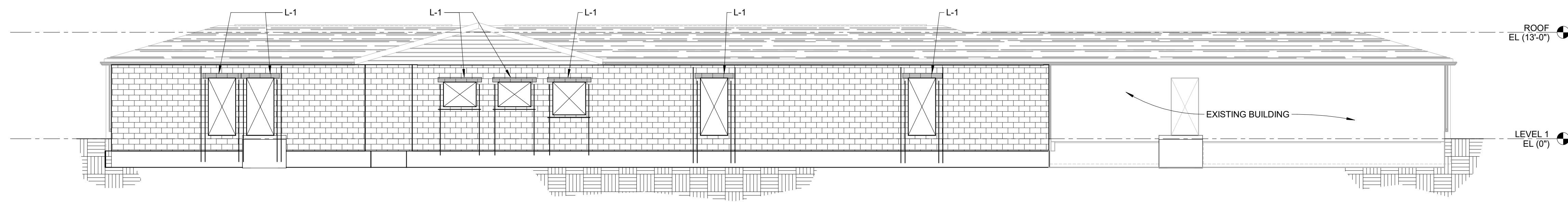


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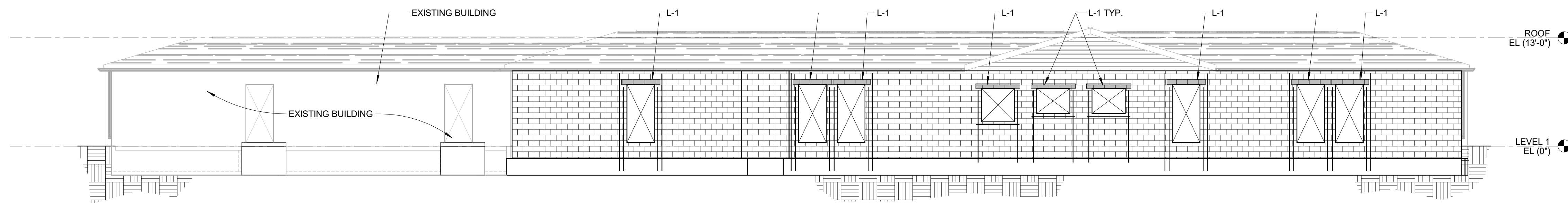
S10

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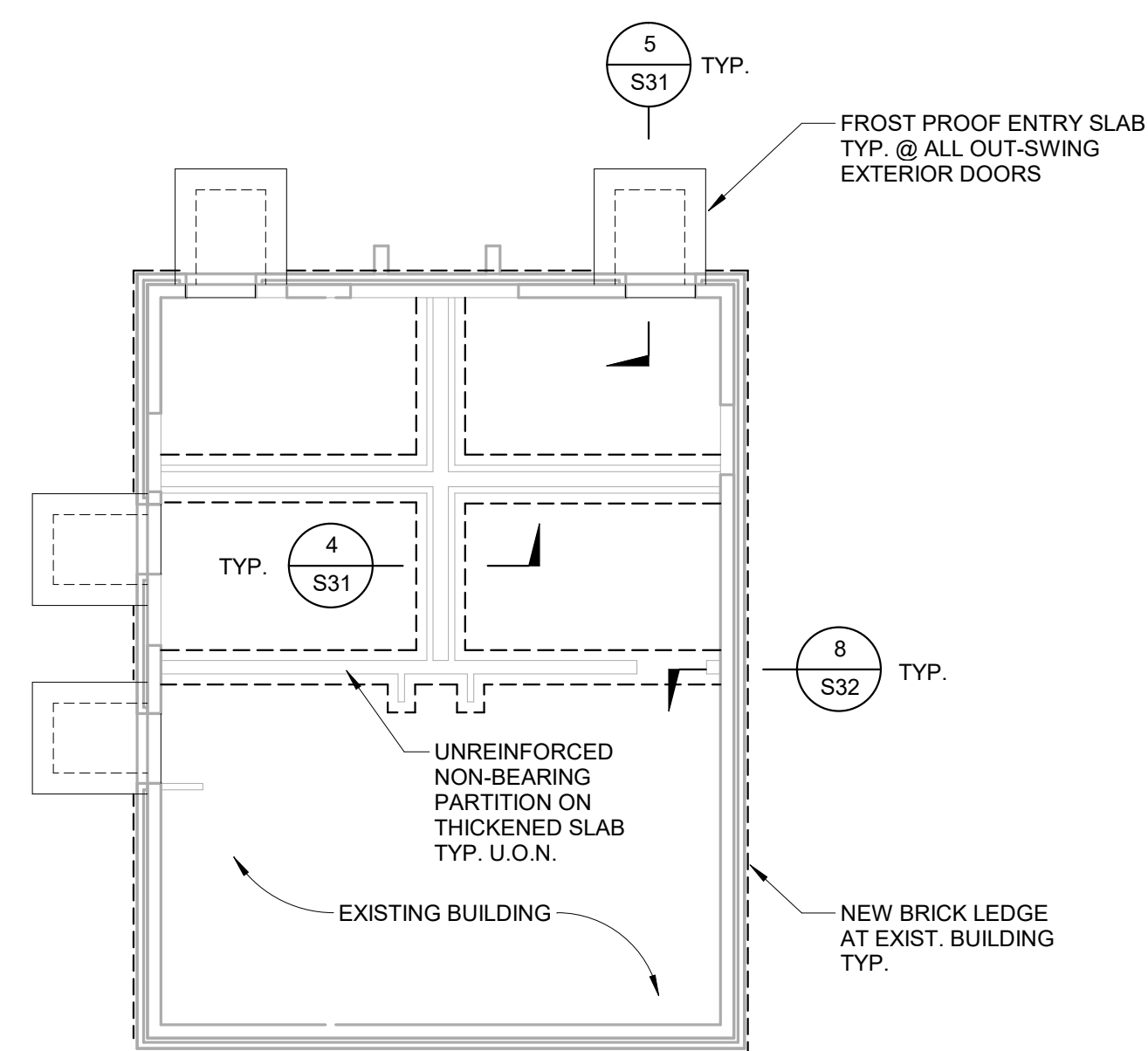
©Ehresman 2022



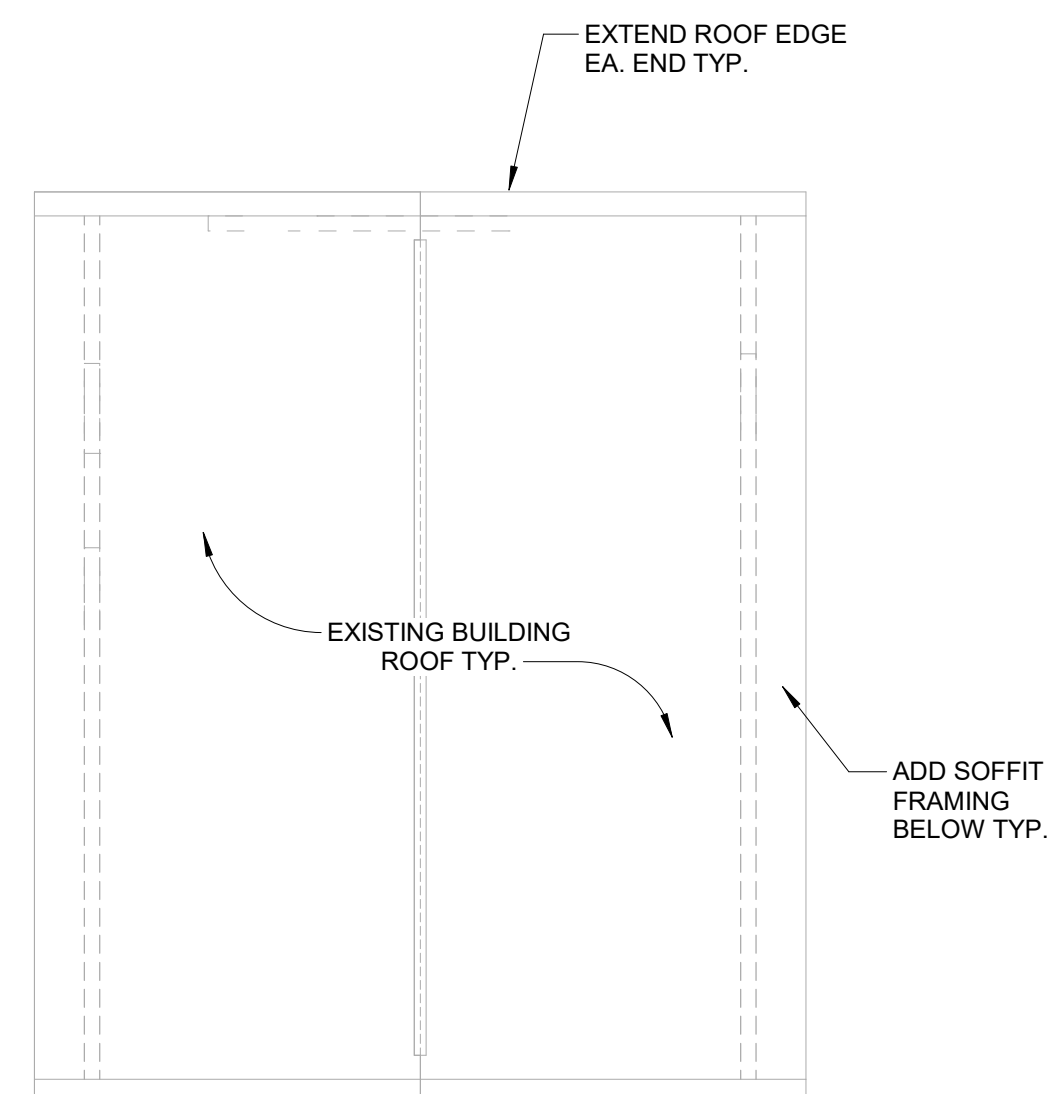
**1 BUILDING A NORTH**  
1/8" = 1'-0"



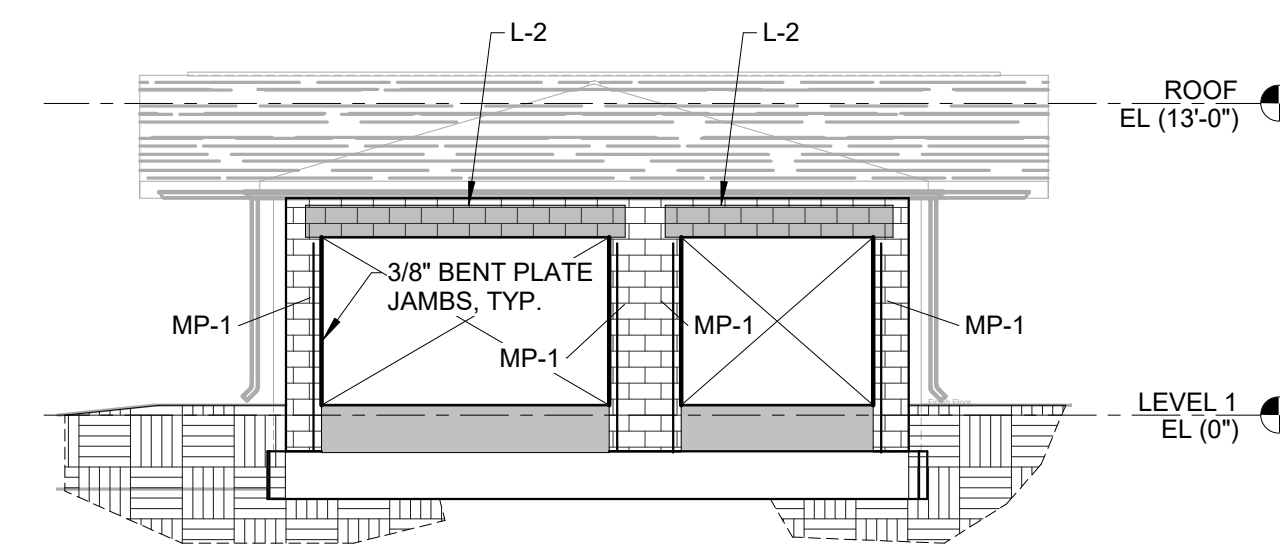
**2 BUILDING A SOUTH**  
1/8" = 1'-0"



**4 BUILDING B FOUNDATION PLAN**  
1/8" = 1'-0"



**5 BUILDING B ROOF FRAMING PLAN**  
1/8" = 1'-0"



**3 BUILDING A EAST**  
1/8" = 1'-0"

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BUILDING PLANS & ELEVATIONS



CRESTWOOD HS FIELD BUILDING

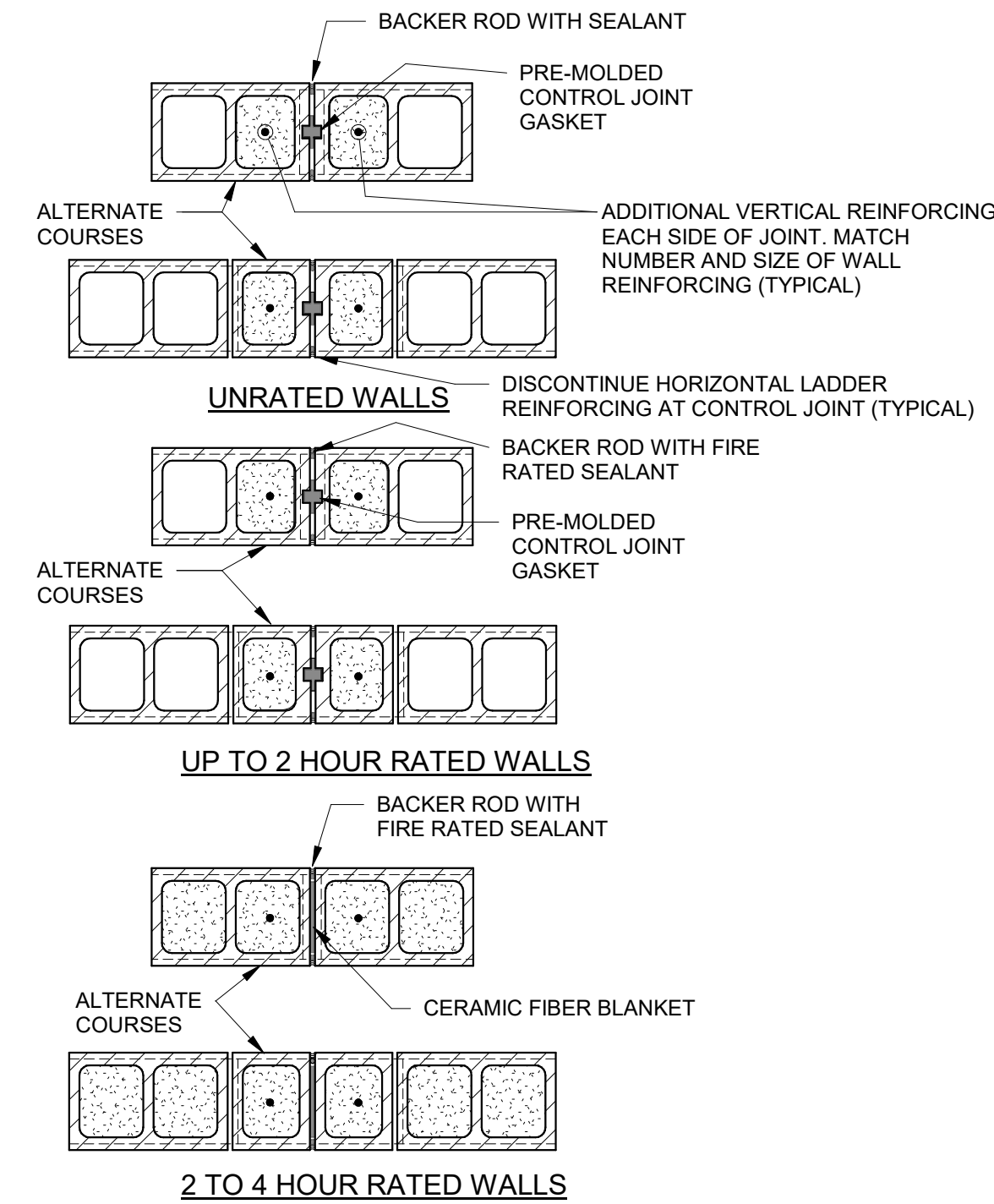
PROJECT NO. 5622

S11

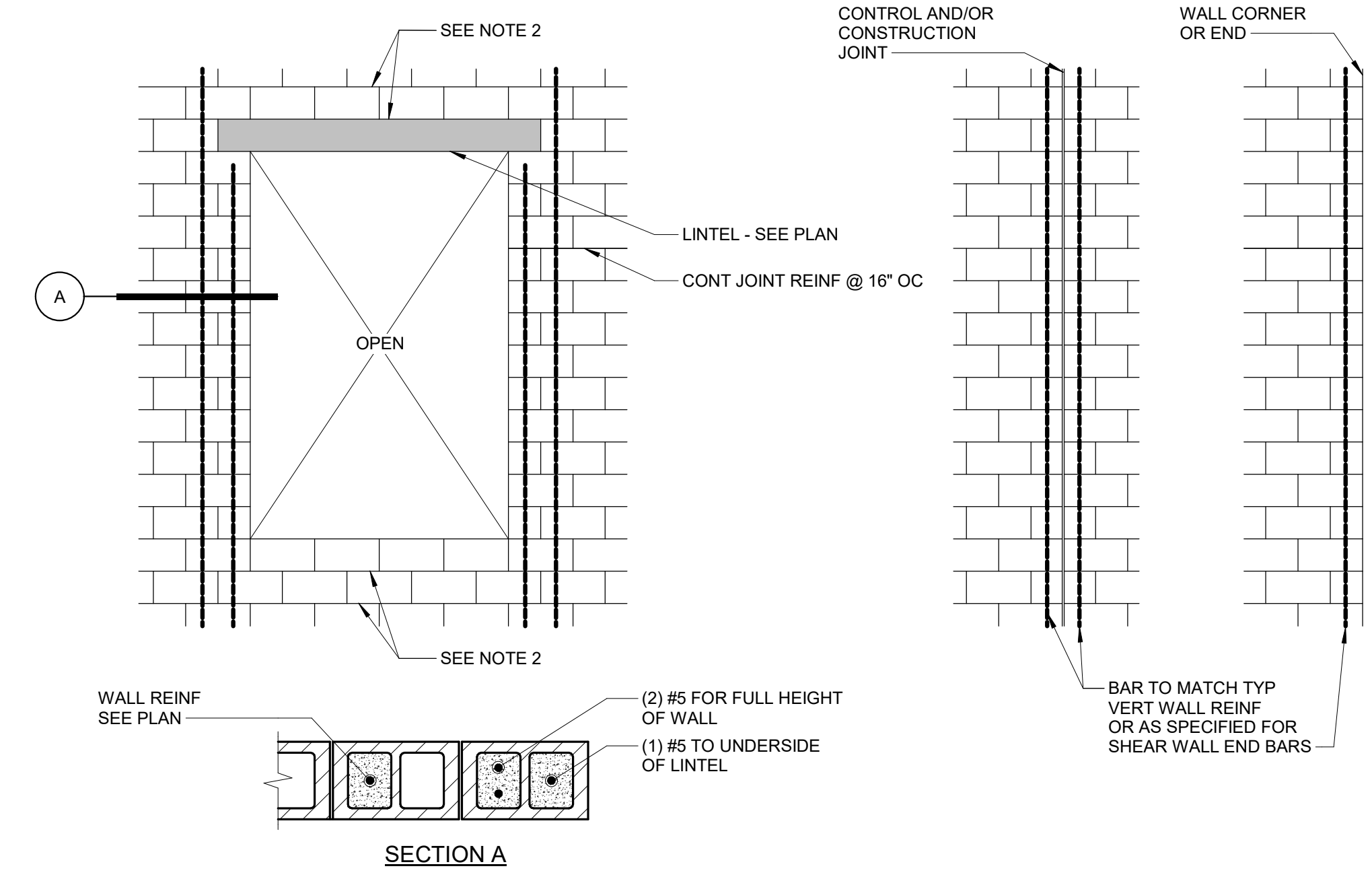


CMU REINFORCING BAR DEVELOPMENT LENGTH (L <sub>d</sub> ) SCHEDULE				
f <sub>m</sub> =2000 PSI				
CMU THICKNESS	REINFORCING LOCATION	BAR SIZE	L <sub>d</sub>	REMARKS
6"	SINGLE LAYER, REINF CENTERED IN WALL	#3	12"	NOTE 5
		#4	18"	
		#5	28"	
8"	SINGLE LAYER, REINF CENTERED IN WALL	#4	13"	NOTE 5
		#5	20"	
		#6	38"	
10" OR 12"	SINGLE LAYER, REINF CENTERED IN WALL	#4	12"	NOTE 5
		#5	16"	
		#6	29"	
10" OR 12"	DOUBLE LAYER, REINF W/ 2 1/2" MIN CLR COVER	#4	40"	NOTE 5
		#5	18"	
		#6	52"	

- NOTES:
- CONTRACTOR TO PROVIDE LAP SPLICE LENGTHS TO MATCH L<sub>d</sub> VALUES PROVIDED IN SCHEDULE OR USE MECHANICAL SPLICES ADEQUATE FOR 125% OF SPECIFIED YIELD STRENGTH OF THE BAR.
  - WHERE TWO DIFFERENT SIZES OF REINFORCING BARS ARE LAPPED, PROVIDE L<sub>d</sub> FOR SMALLER REINFORCING BAR.
  - DOWEL EMBEDMENT INTO CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE CAST-IN-PLACE CONCRETE GENERAL NOTES.
  - WHEN EPOXY-COATED REINFORCING BARS ARE USED, INCREASE TABULATED VALUES BY A FACTOR OF 1.5.
  - MORTAR FINS TO BE REMOVED.

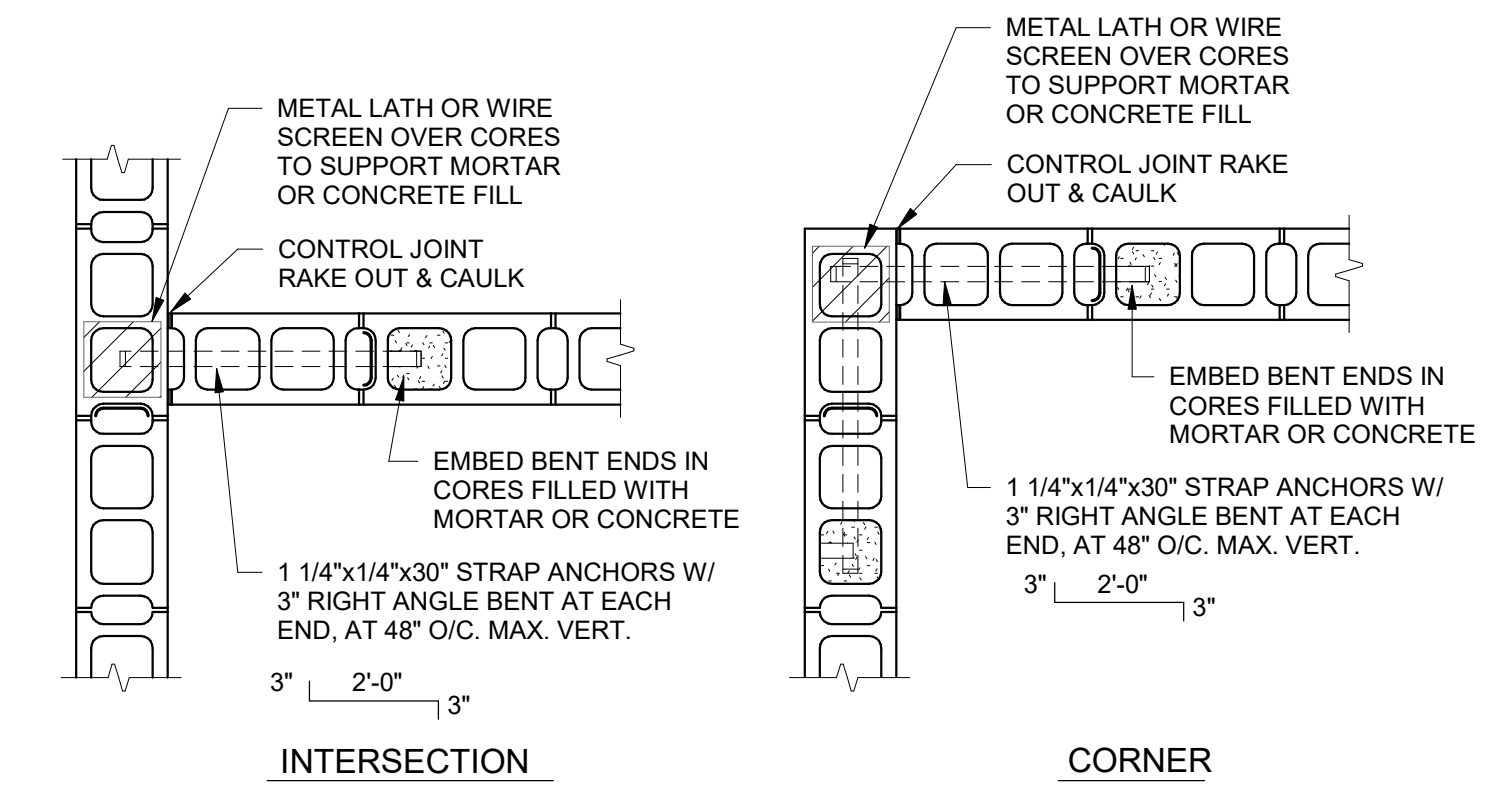


2 TYP - MASONRY WALL CONTROL JOINT DETAIL  
3/4" = 1'-0"

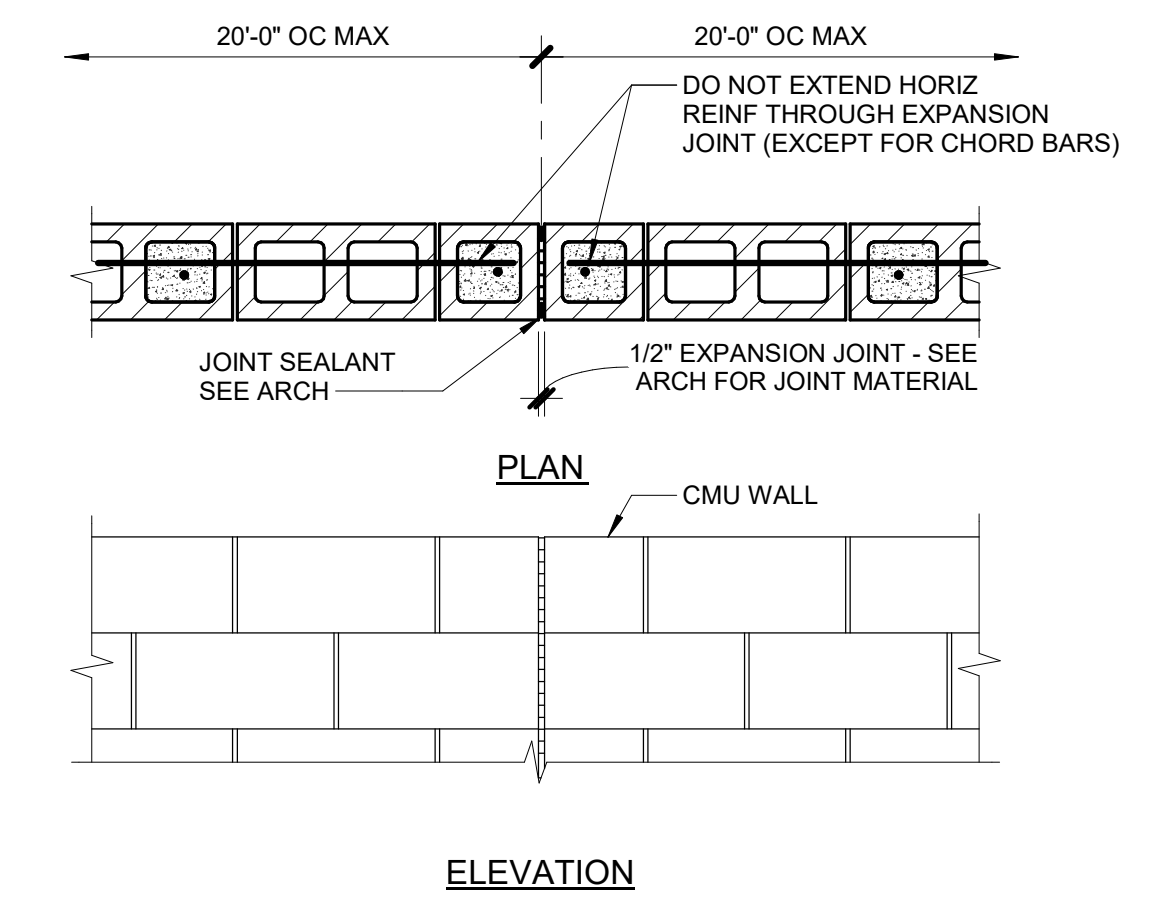


3 TYPICAL CMU WALL OPENING DETAIL  
3/4" = 1'-0"  
S<sub>M</sub>-003

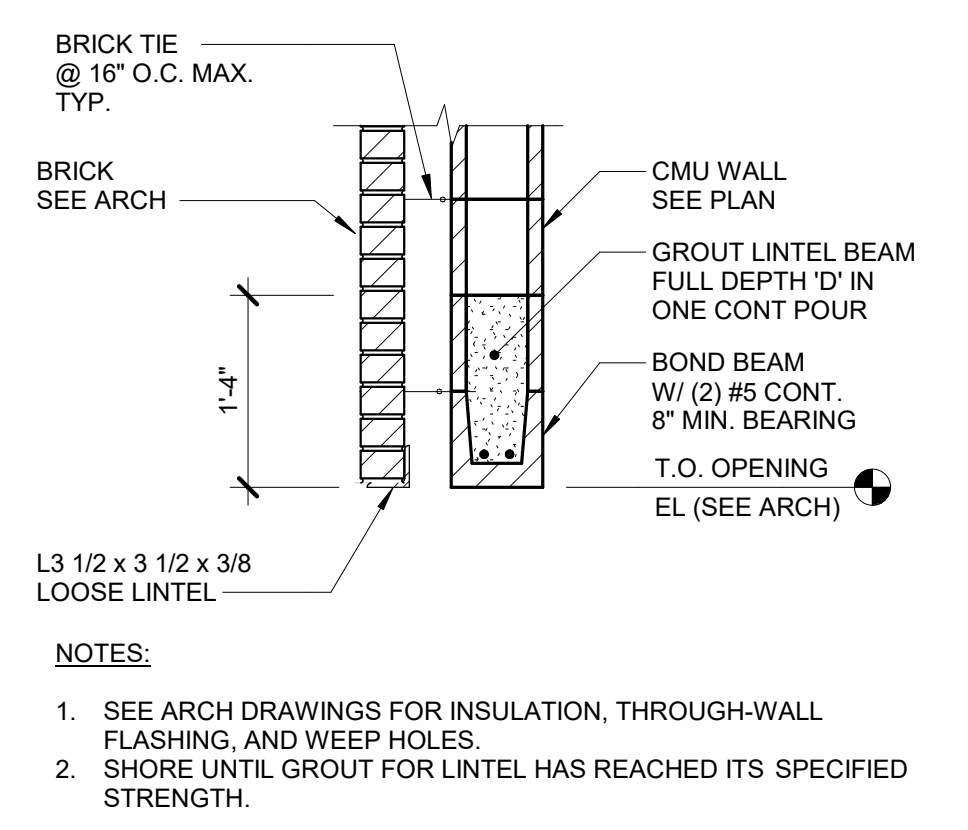
1 S<sub>M</sub>-001B REINFORCING BAR DEVELOPMENT LENGTH (L<sub>d</sub>) SCHEDULE f<sub>m</sub>2000  
3/4" = 1'-0"  
S<sub>M</sub>-001B



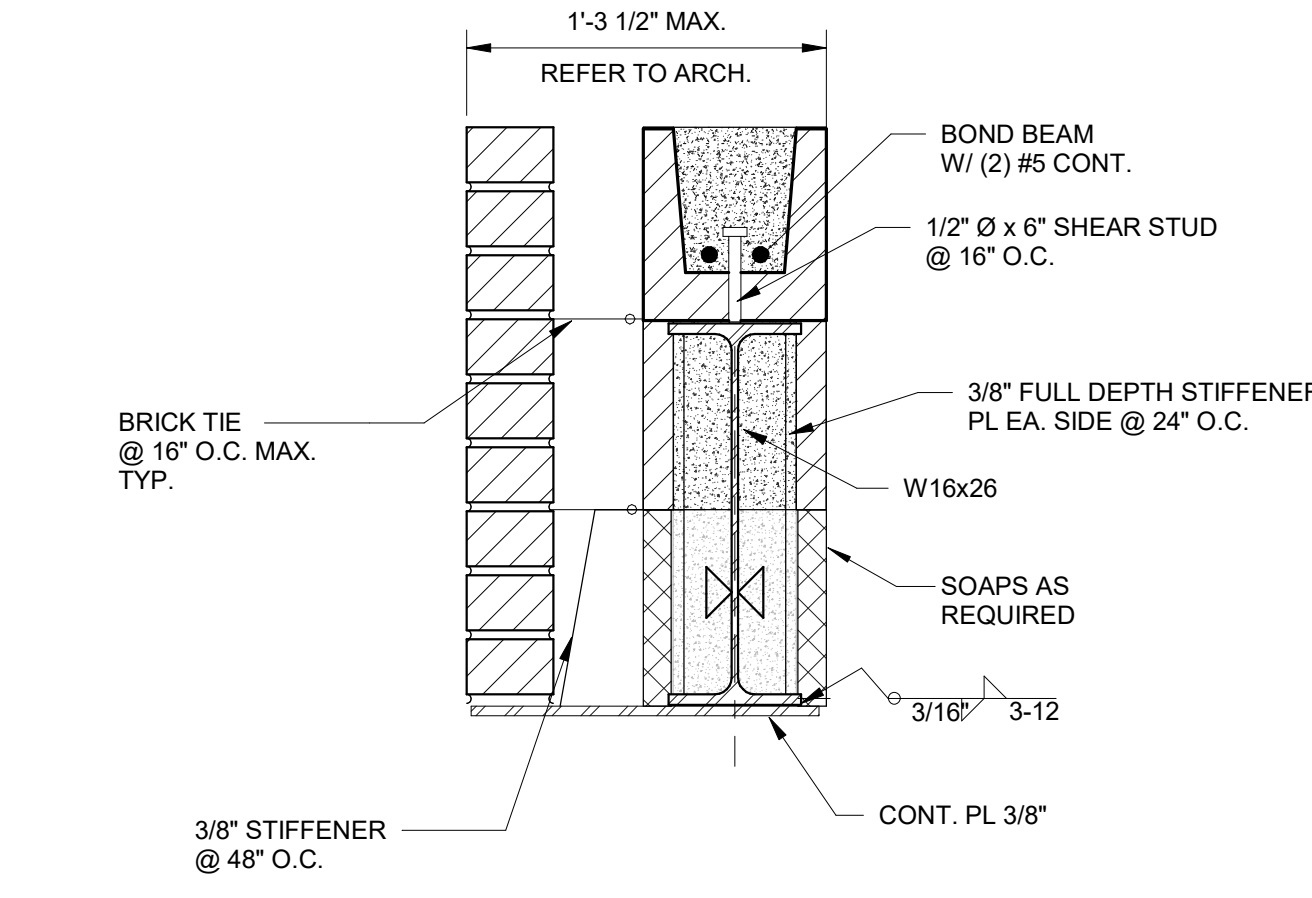
4 TYPICAL PLANS @ MASONRY WALL INTERSECTION & CORNER  
3/4" = 1'-0"



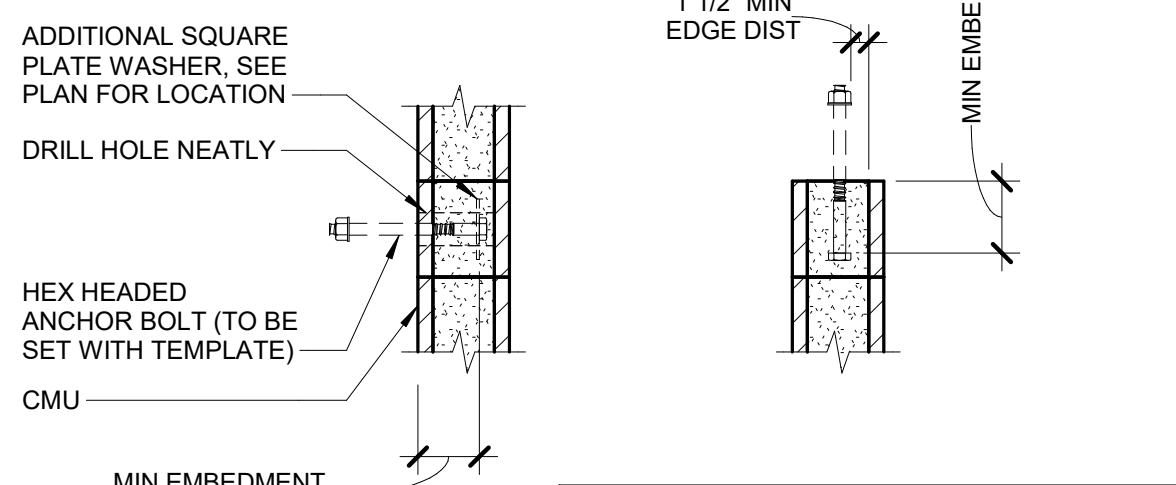
5 CMU EXPANSION JOINT DETAIL  
3/4" = 1'-0"  
S<sub>M</sub>-007



6 EXTERIOR BRICK LINTEL L-1  
3/4" = 1'-0"  
S<sub>M</sub>-403

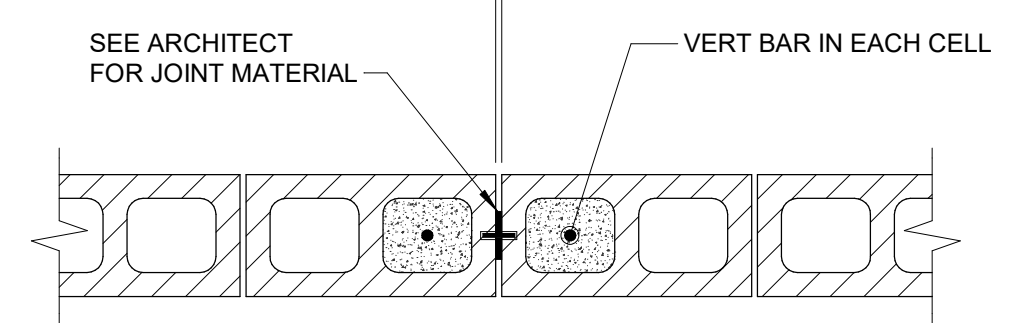


7 EXTERIOR BRICK LINTEL L-2  
1 1/2" = 1'-0"



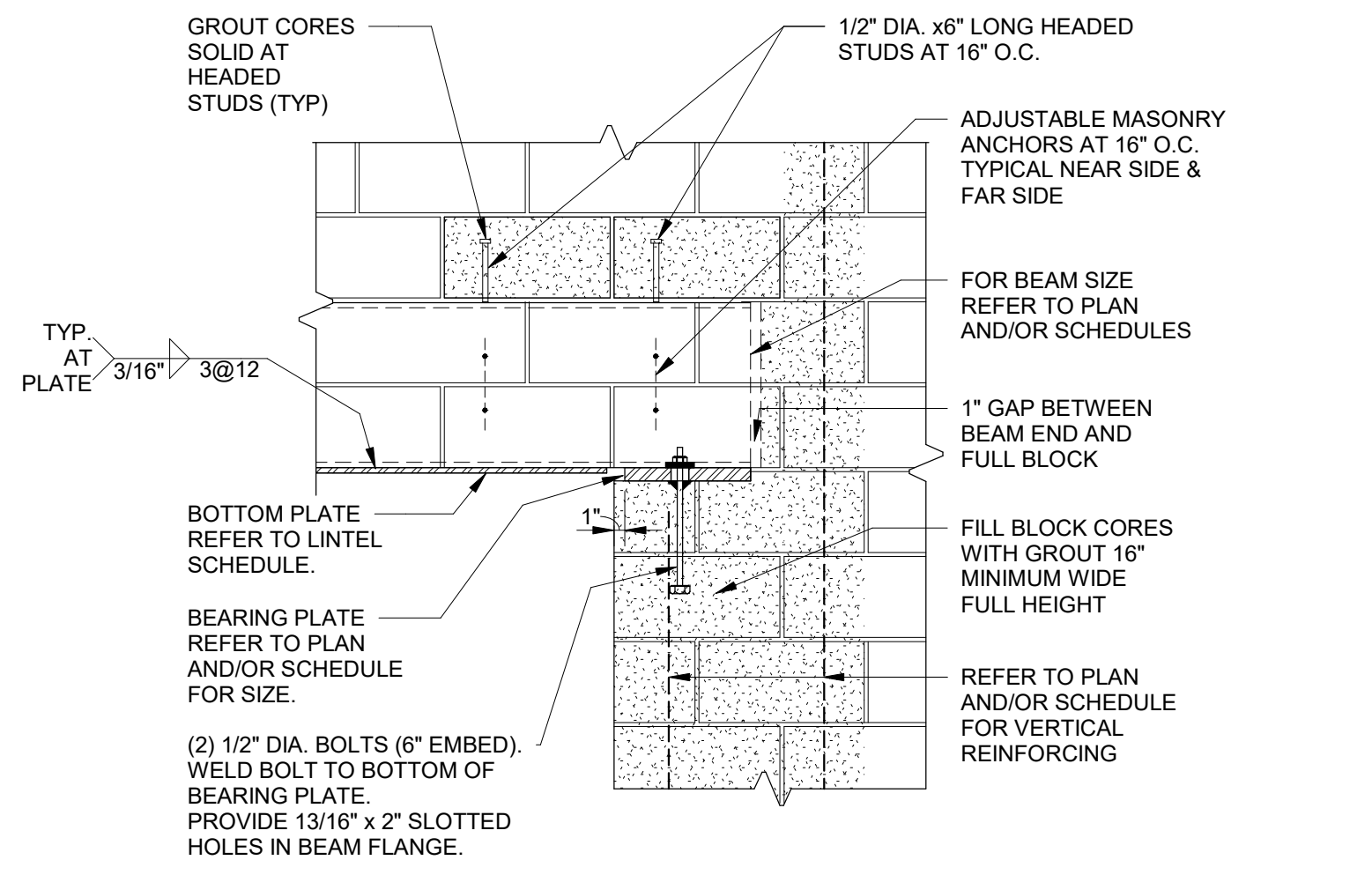
BOLT SIZE	BOLT EMBEDMENT		
	12" CMU	8" CMU	VERT
1/2"	9"	5 1/4"	8"
5/8"	9"	5 1/4"	9"
3/4"	9"	-	10"
7/8"	9"	-	11"
1"	9"	-	12"

- NOTE:
- BOLT SPACING SHALL BE 8 BOLT DIAMETERS.



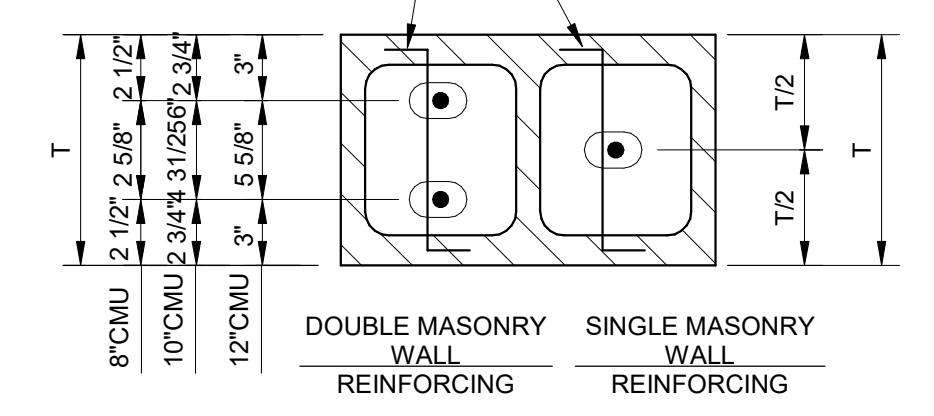
- NOTES:
- HORIZONTAL REINFORCING AND BOND BEAMS SHALL BE DISCONTINUOUS AT WALL JOINT, EXCEPT FOR CHORD REINFORCING.
  - DO NOT LOCATE JOINT OVER OPENING OR WITHIN JAMB.
  - REFERENCE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
  - COORDINATE LOCATION OF JOINTS WITH ARCHITECTURAL DRAWINGS.

9 WALL CONSTRUCTION JOINT  
1" = 1'-0"  
S<sub>M</sub>-008



10 STEEL BEAM BEARING DETAIL  
3/4" = 1'-0"

REBAR POSITIONER SPACING	
BAR SIZE	MAX. VERTICAL SPACING
#4	56 INCHES
#5	64 INCHES
#6	80 INCHES



11 TYP. MASONRY WALL REINF.  
1 1/2" = 1'-0"

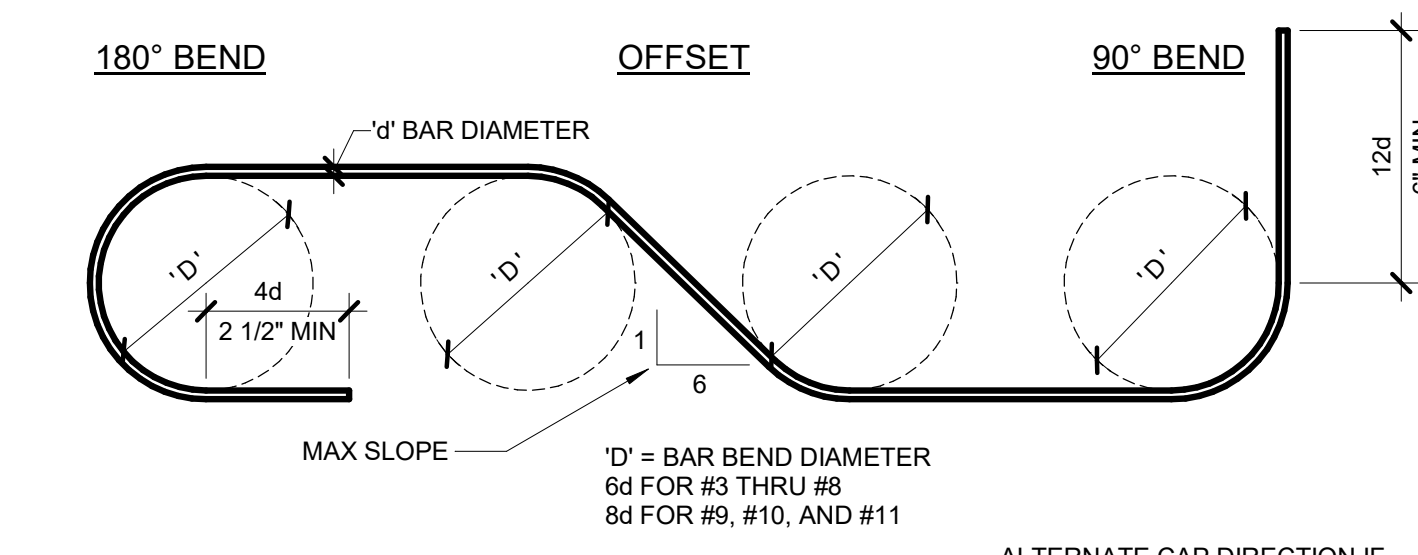
8 ANCHOR BOLT CAST INTO CMU DETAIL  
3/4" = 1'-0"  
S<sub>M</sub>-501



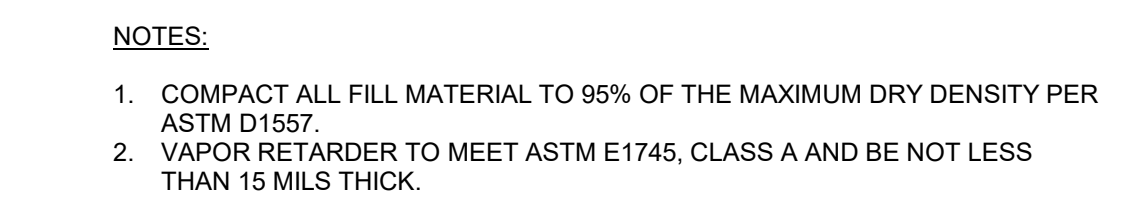
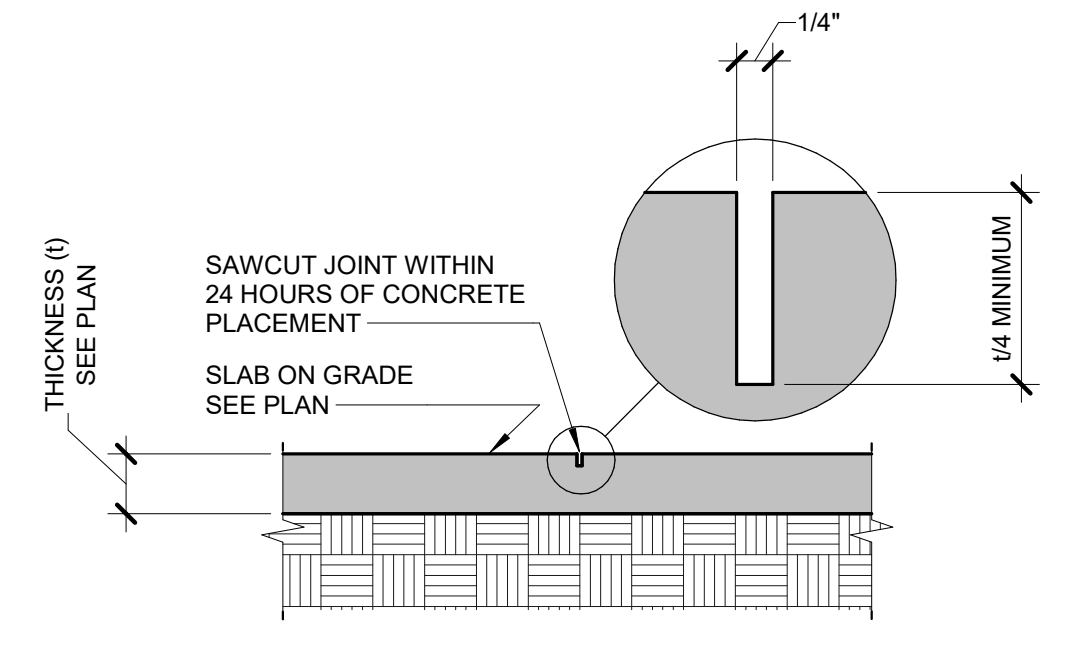
TYPICAL MASONRY DETAILS



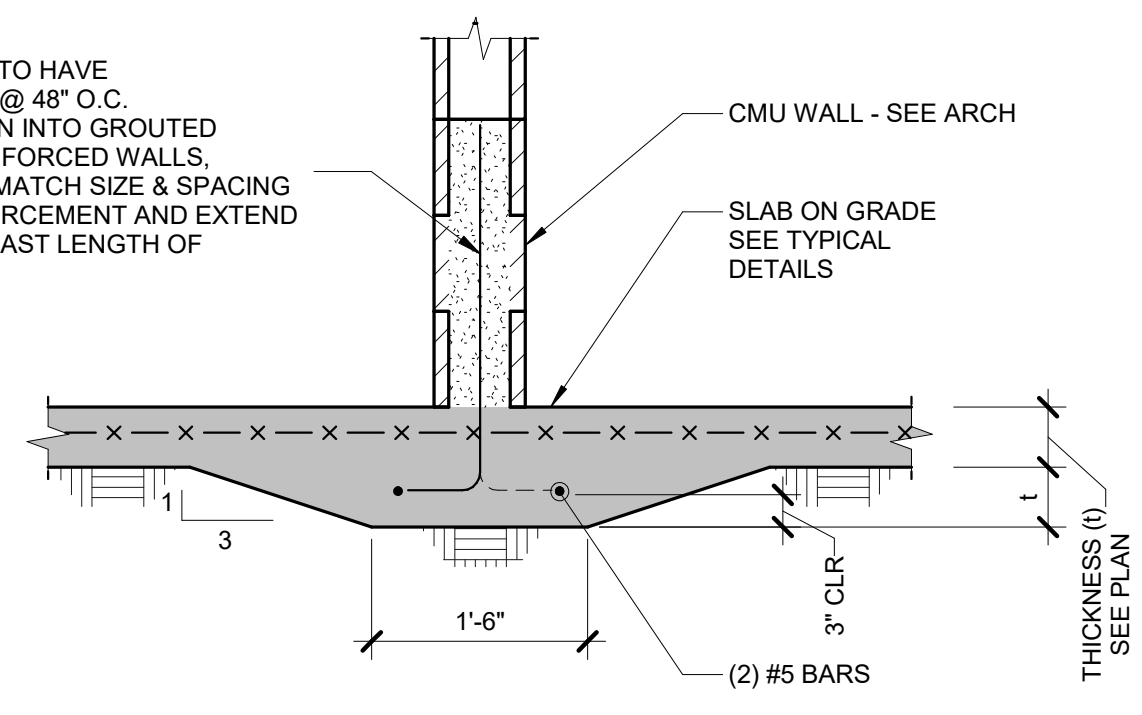
CRESTWOOD HS FIELD BUILDING



**2 TYPICAL CONTROL JOINT**  
3/4" = 1'-0"  
S\_C-100

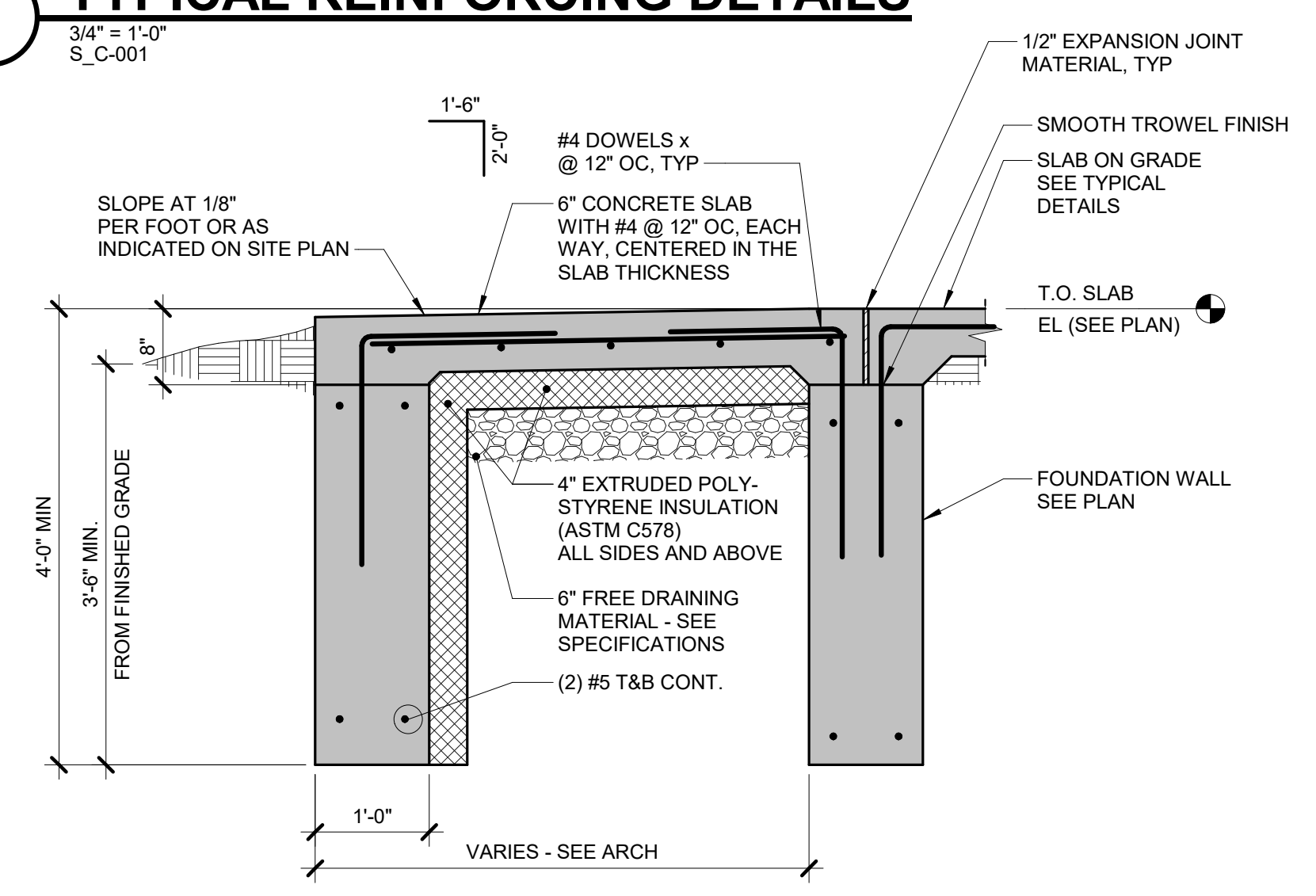


**3 TYPICAL SLAB SECTION**  
3/4" = 1'-0"  
S\_C-104

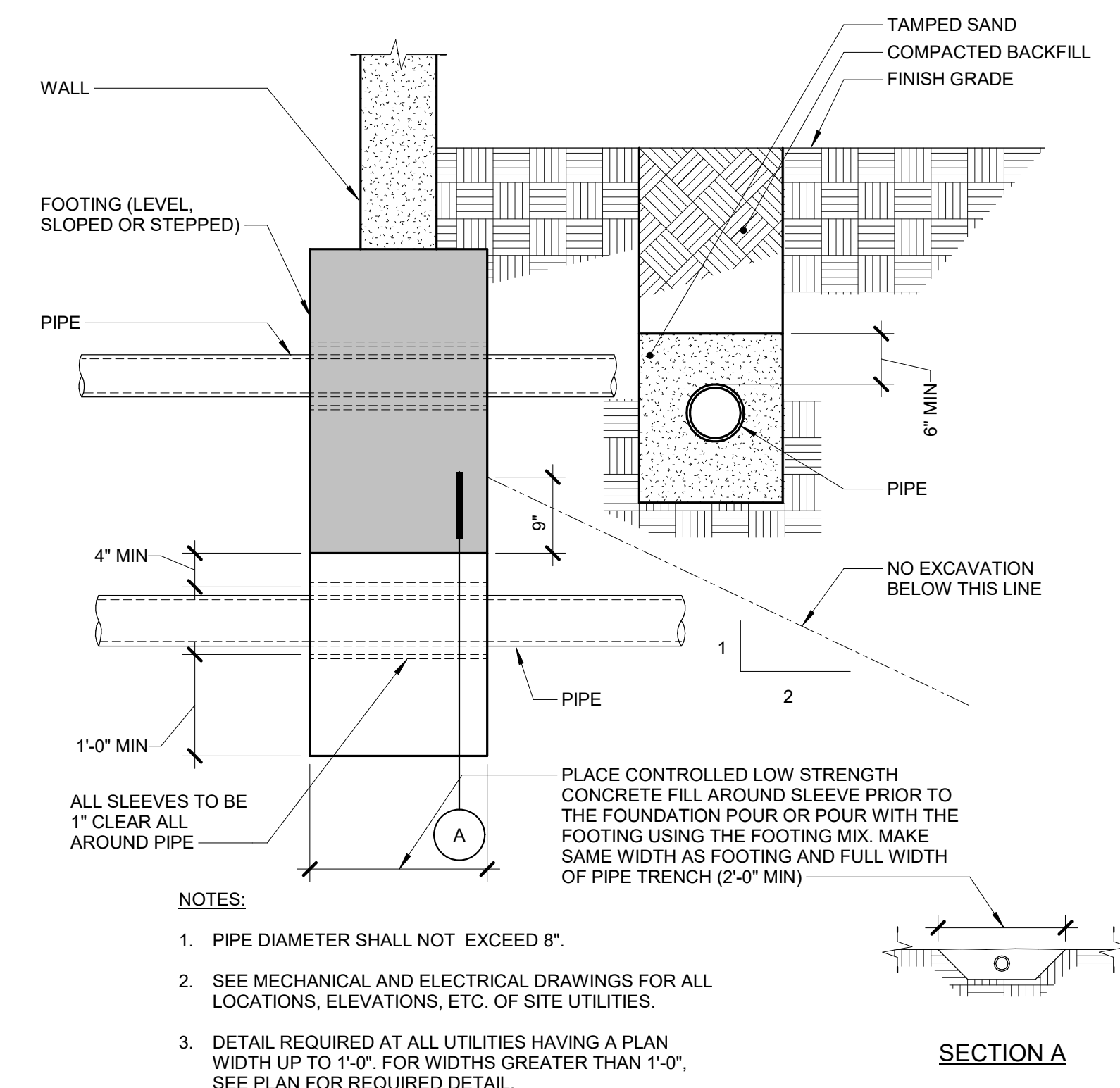


**4 NON-STRUCTURAL CMU WALL DETAIL**  
3/4" = 1'-0"  
S\_C-118

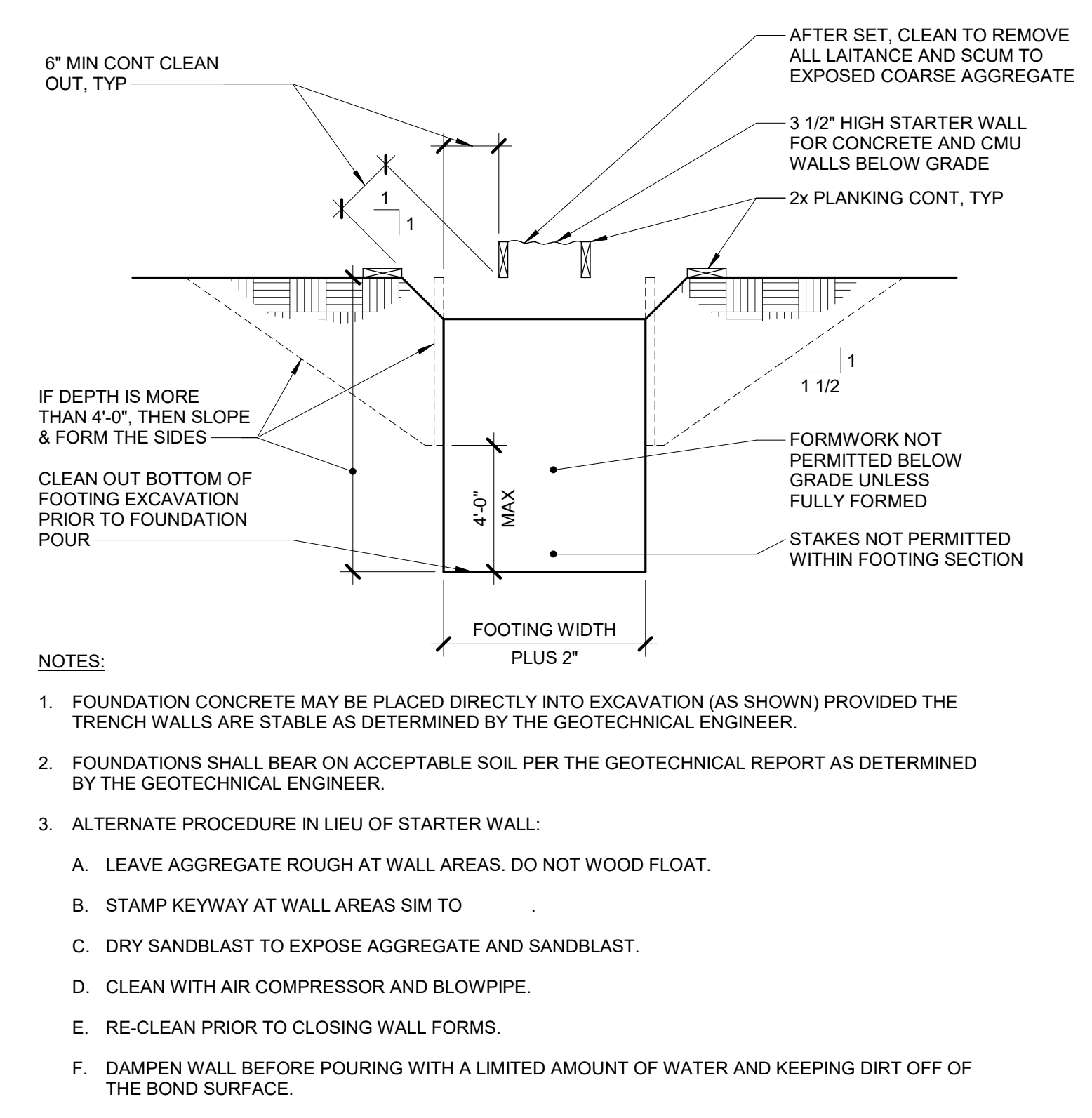
**1 TYPICAL REINFORCING DETAILS**  
3/4" = 1'-0"  
S\_C-001



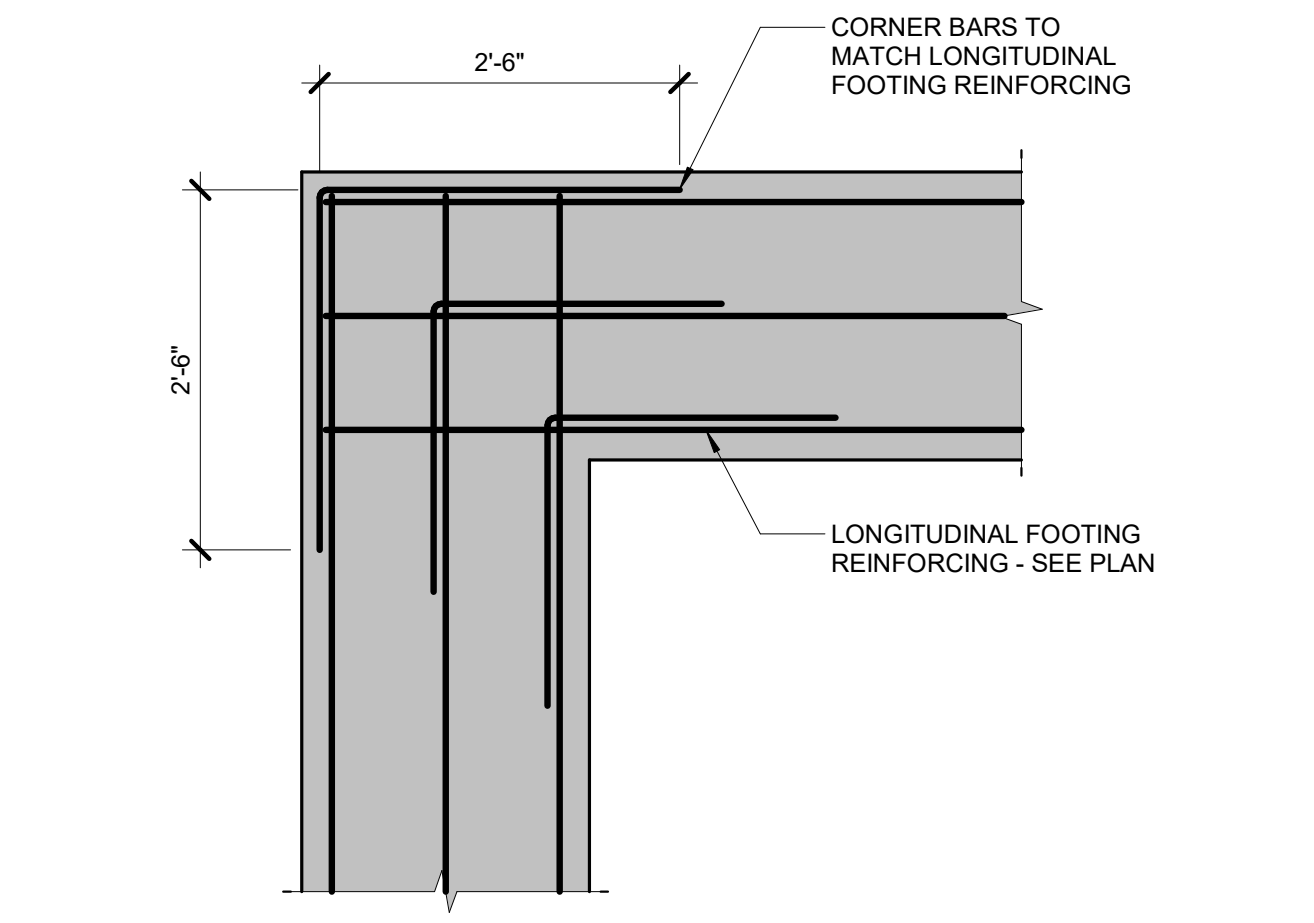
**6 TYPICAL PIPE TRENCH DETAIL**  
3/4" = 1'-0"  
S\_C-206



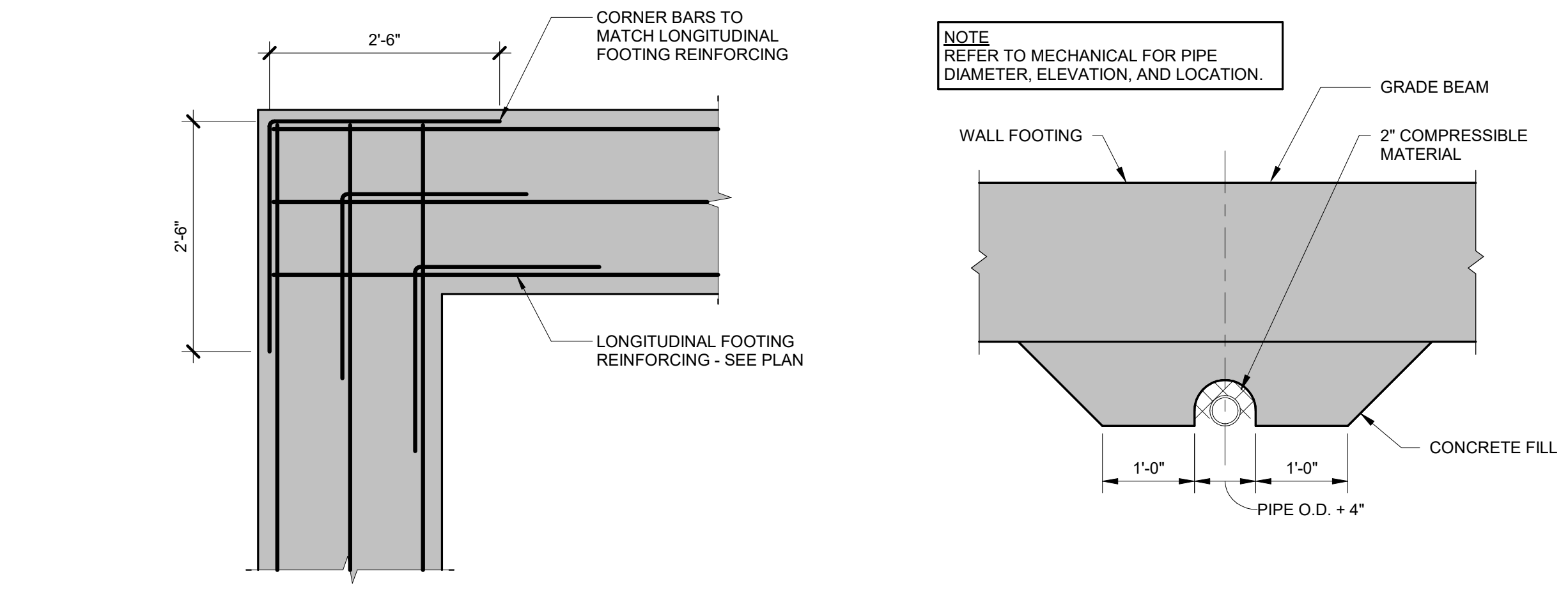
**7 FORMING OF FOUNDATION**  
3/4" = 1'-0"  
S\_C-701



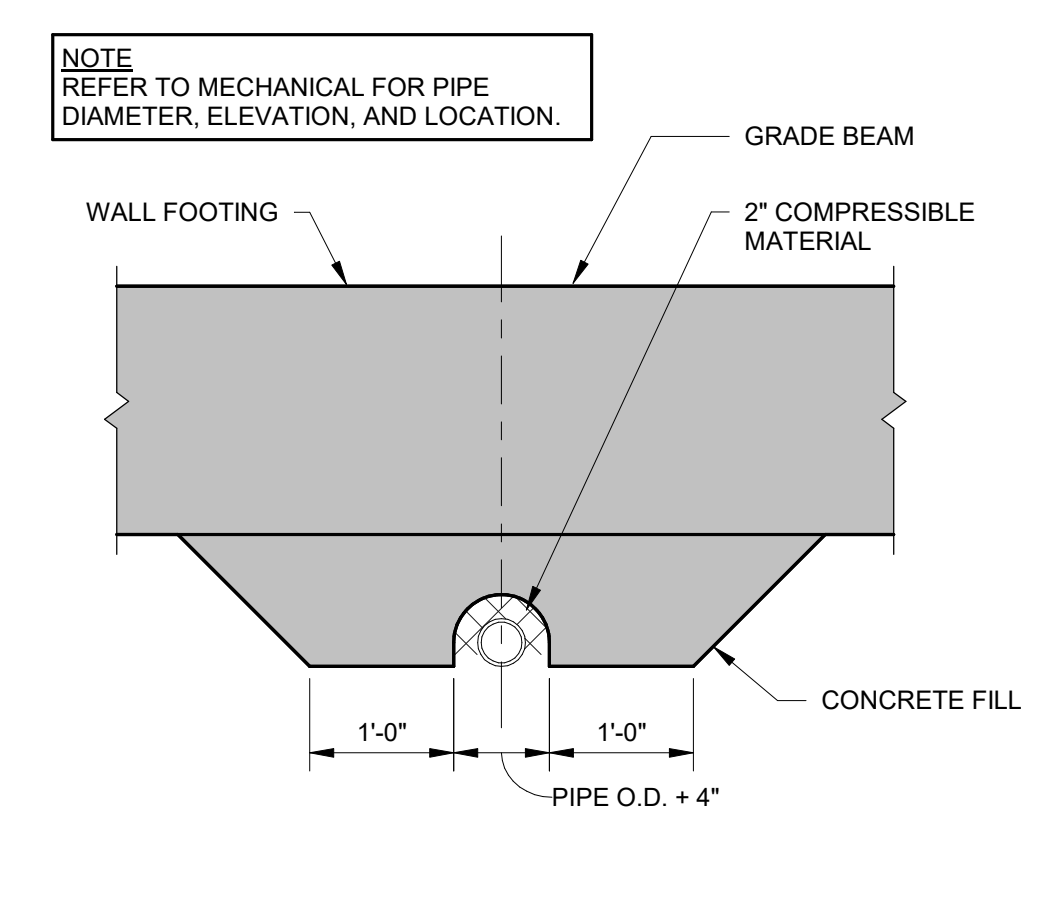
**5 TYPICAL STOOP DETAIL**  
3/4" = 1'-0"



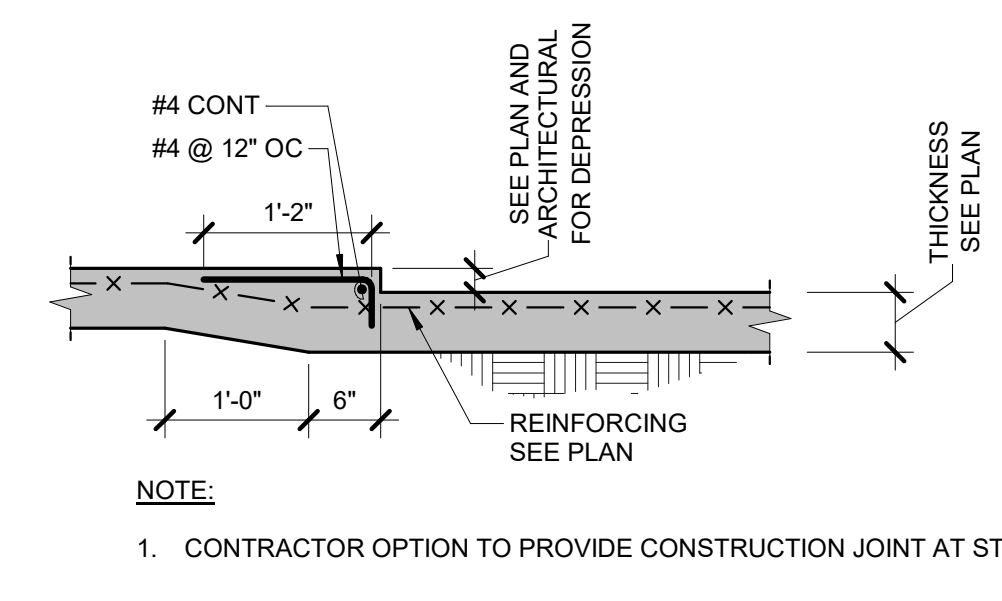
**8 FOOTING CORNER BARS**  
3/4" = 1'-0"  
S\_C-200



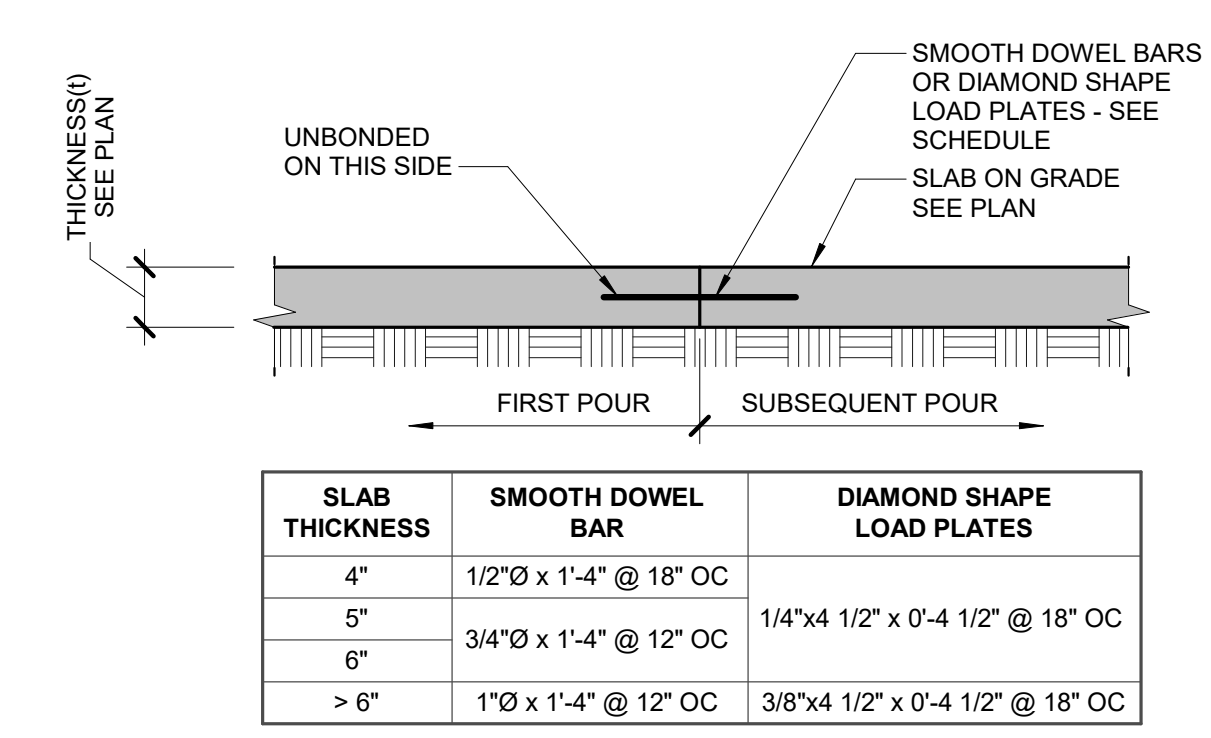
**9 TYP - WALL FOOTING BRIDGE @ PIPING OR CONDUIT**  
3/4" = 1'-0"



**10 TYPICAL SLAB DEPRESSION**  
3/4" = 1'-0"  
S\_C-106



**11 TYPICAL CONSTRUCTION JOINT**  
3/4" = 1'-0"  
S\_C-102



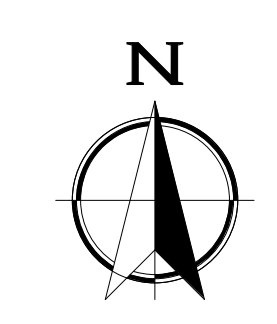
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TYPICAL CONCRETE DETAILS

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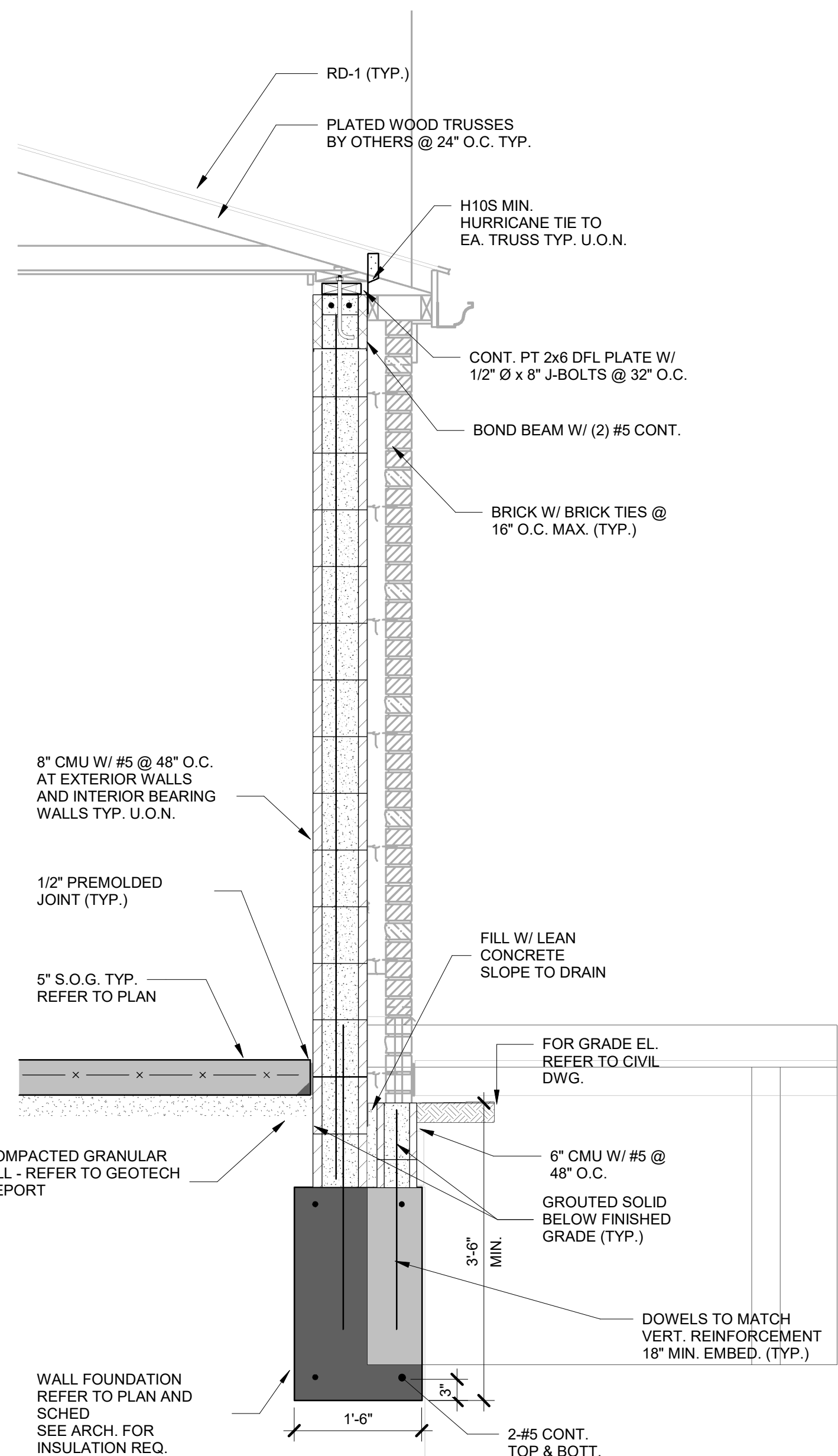
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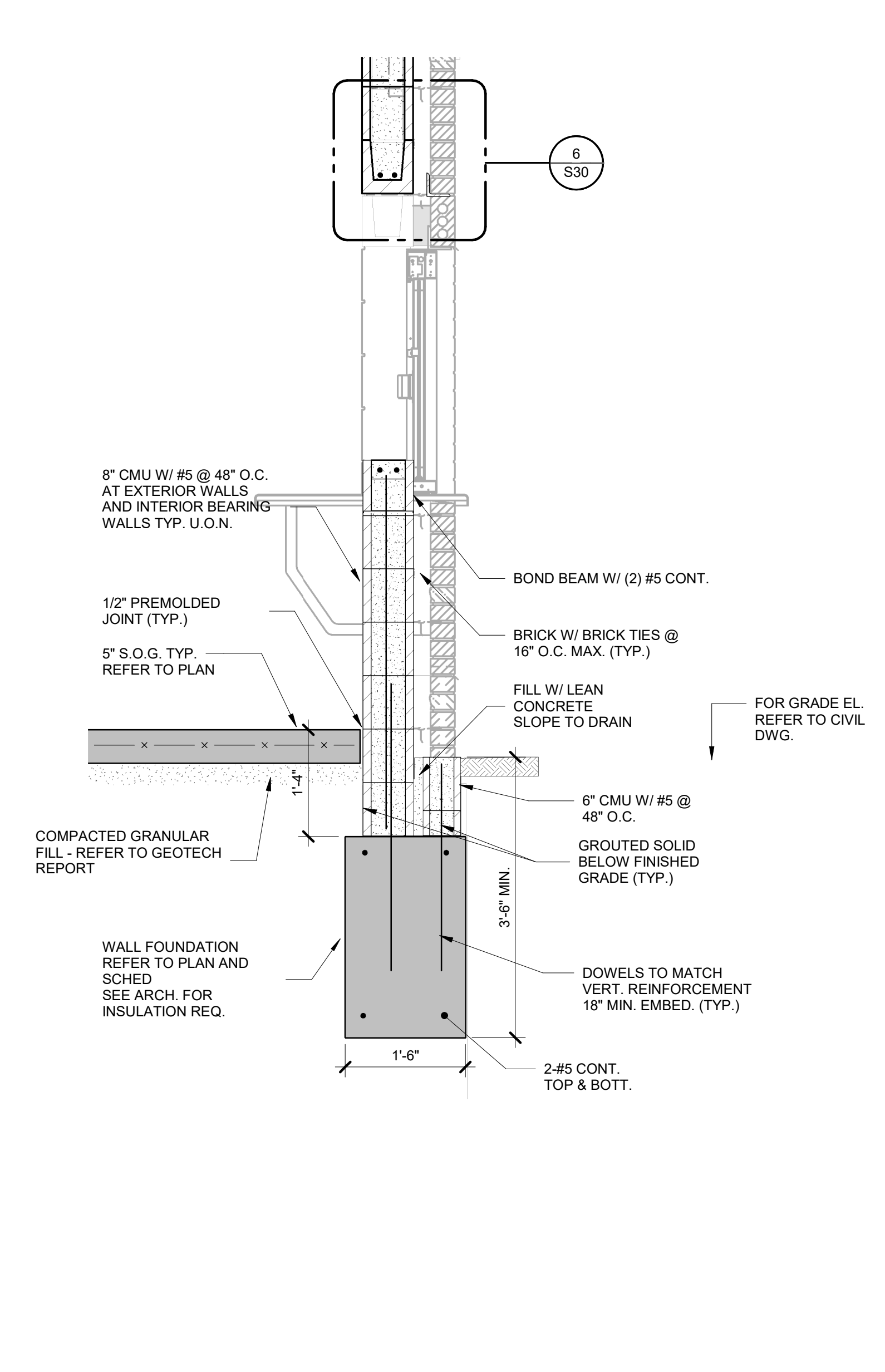
PROJECT NO. 5622

S31

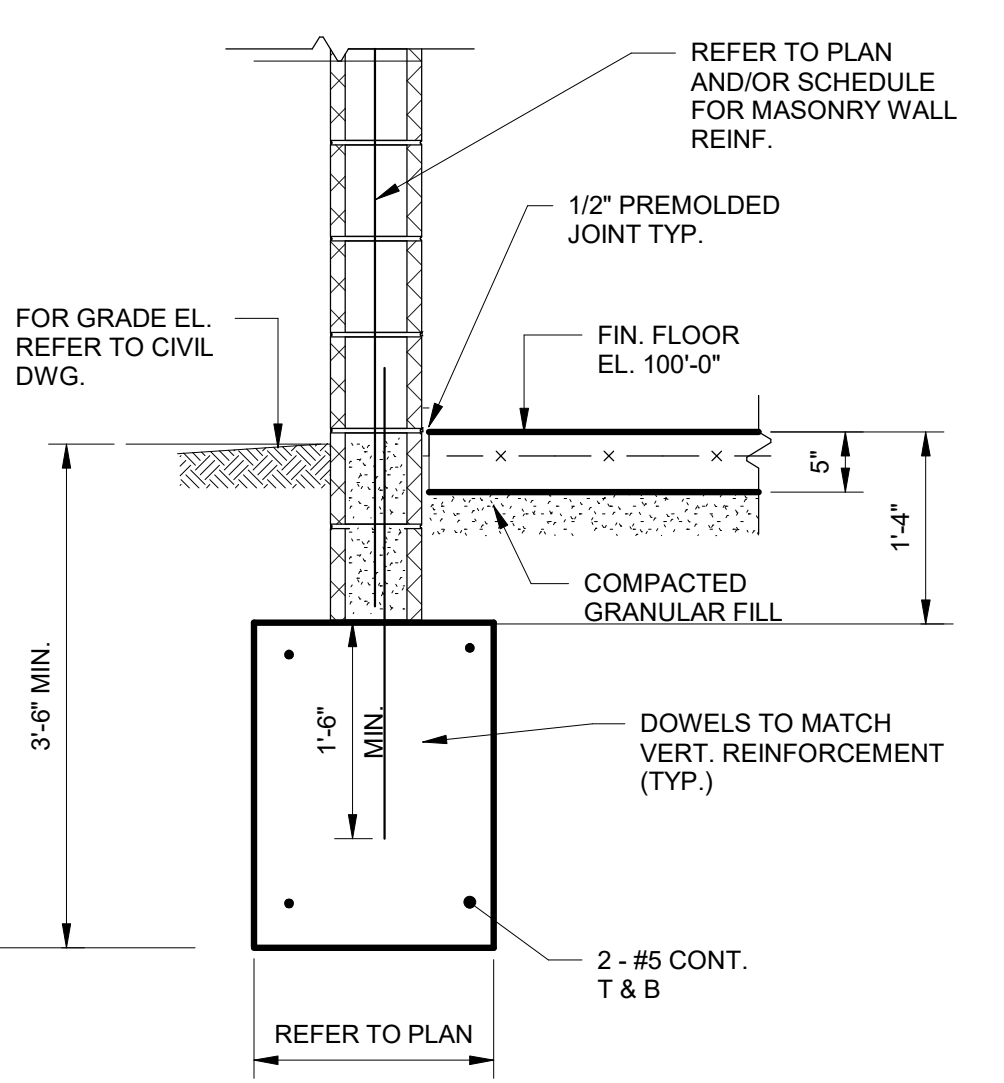




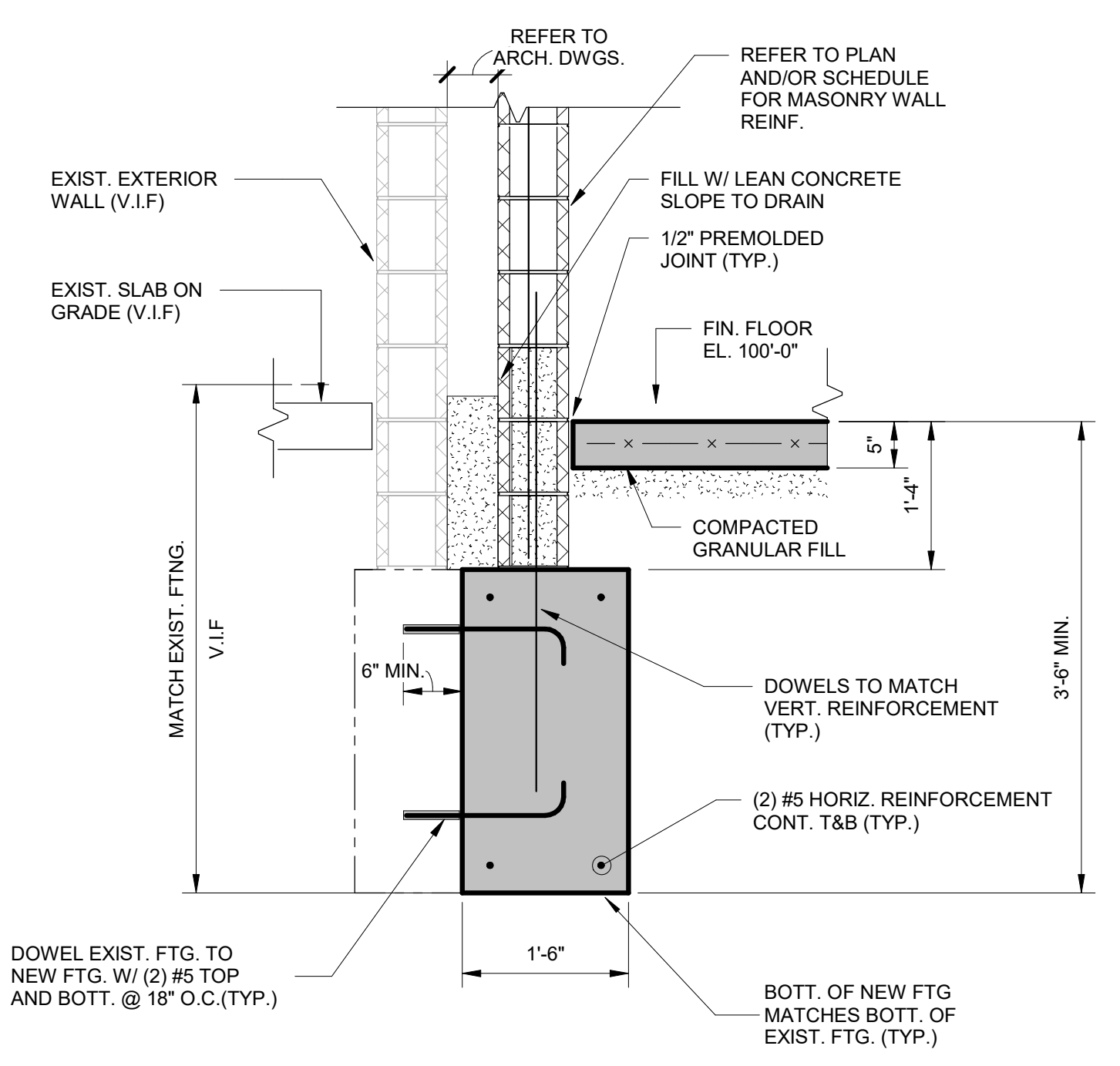
**1 SECTION**  
3/4" = 1'-0"



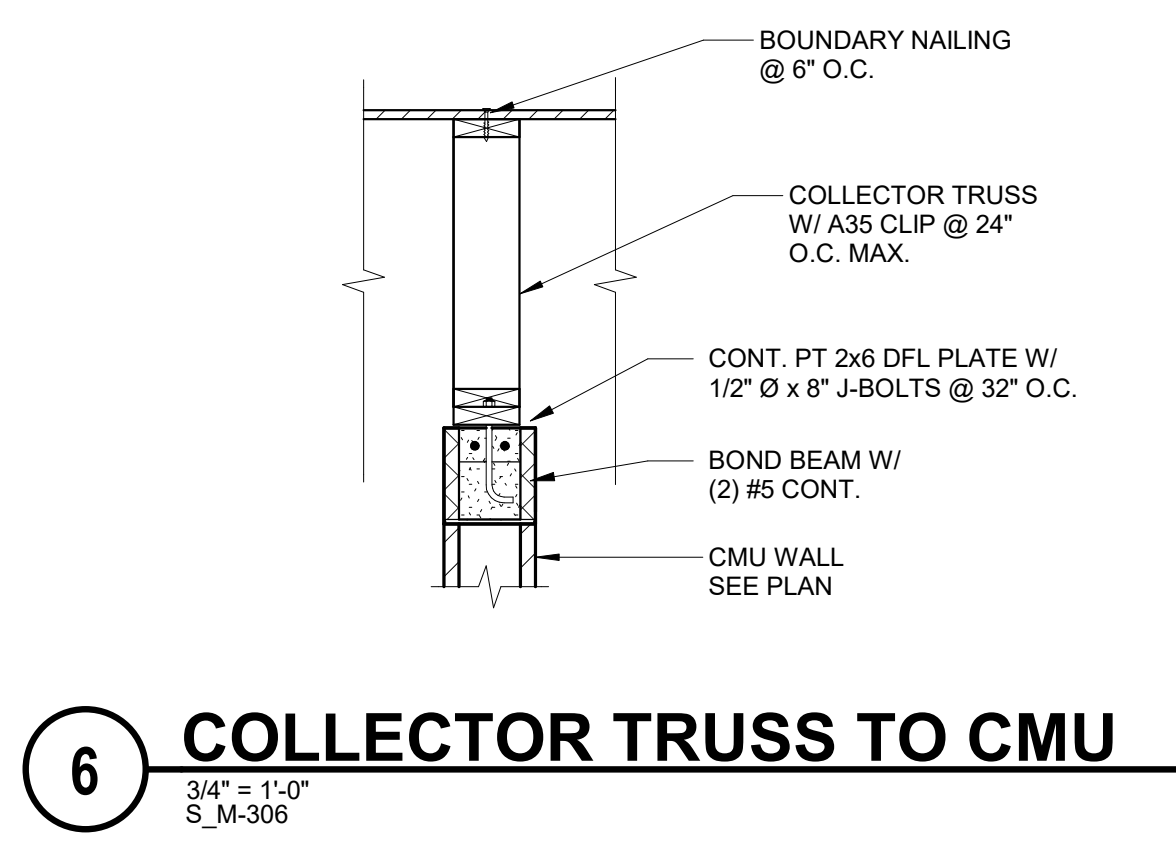
**2 SECTION**  
3/4" = 1'-0"



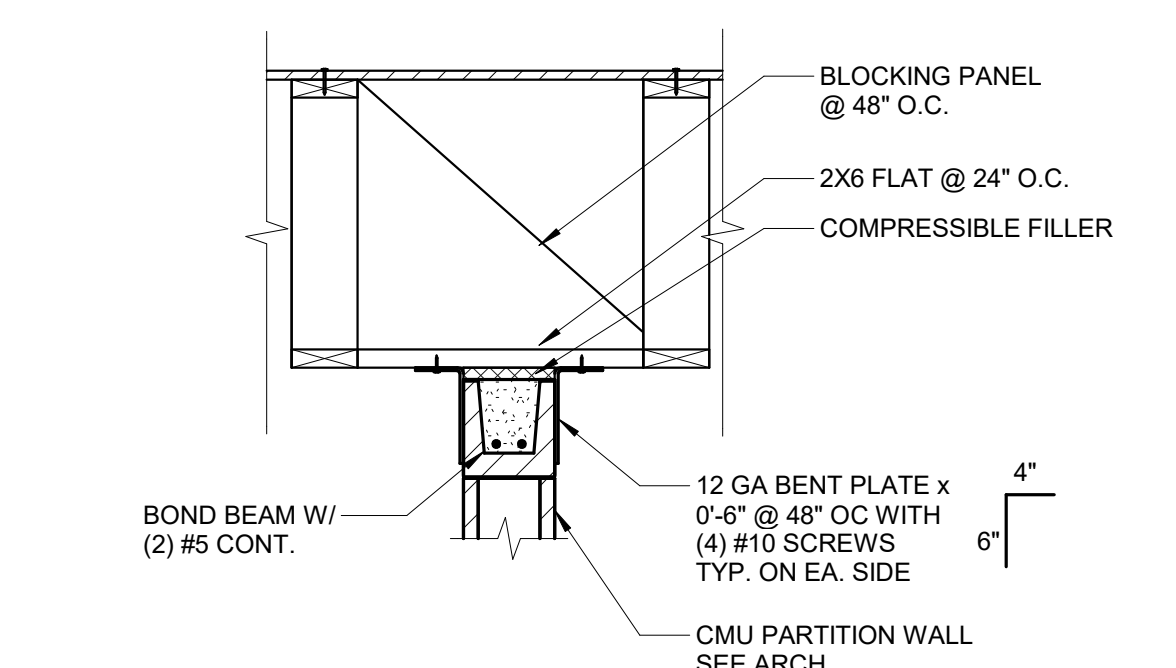
**4 TYPICAL FOUNDATION SECTION**  
3/4" = 1'-0"



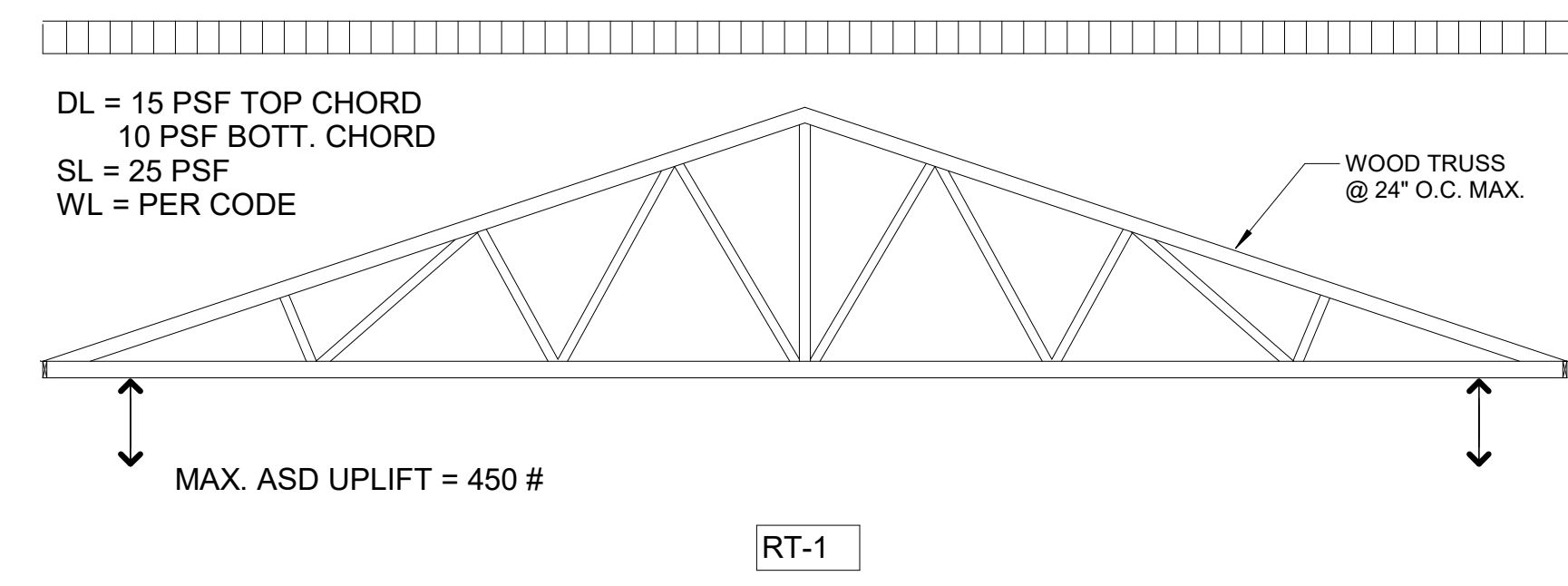
**5 SECTION**  
3/4" = 1'-0"



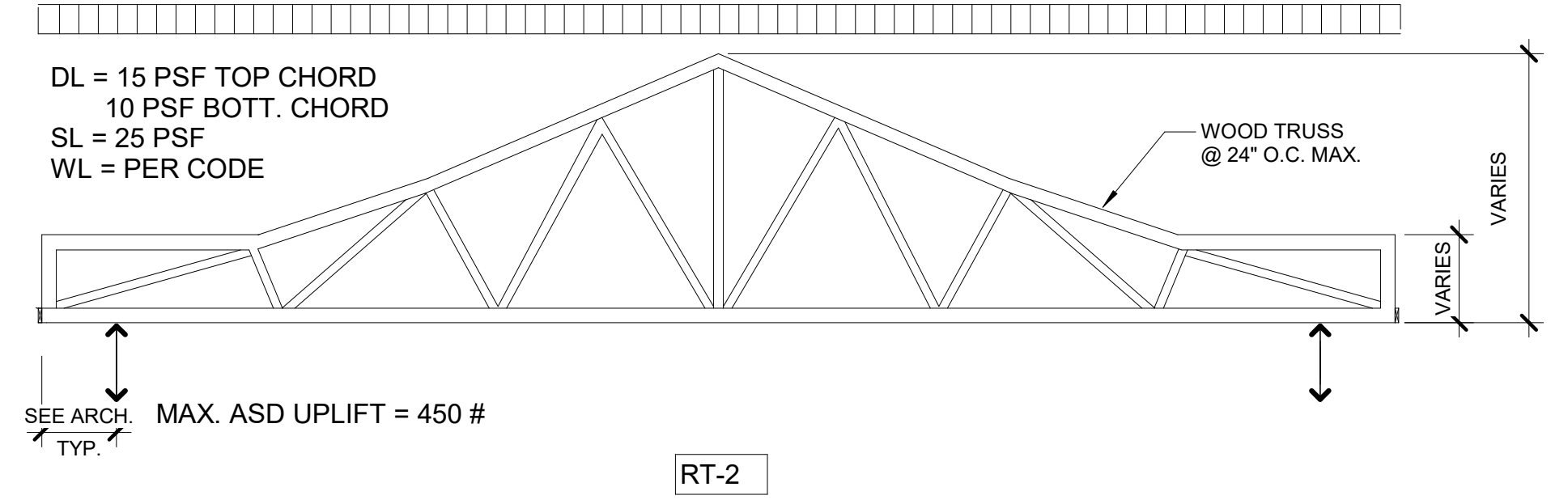
**6 COLLECTOR TRUSS TO CMU**  
3/4" = 1'-0"  
S\_M-306



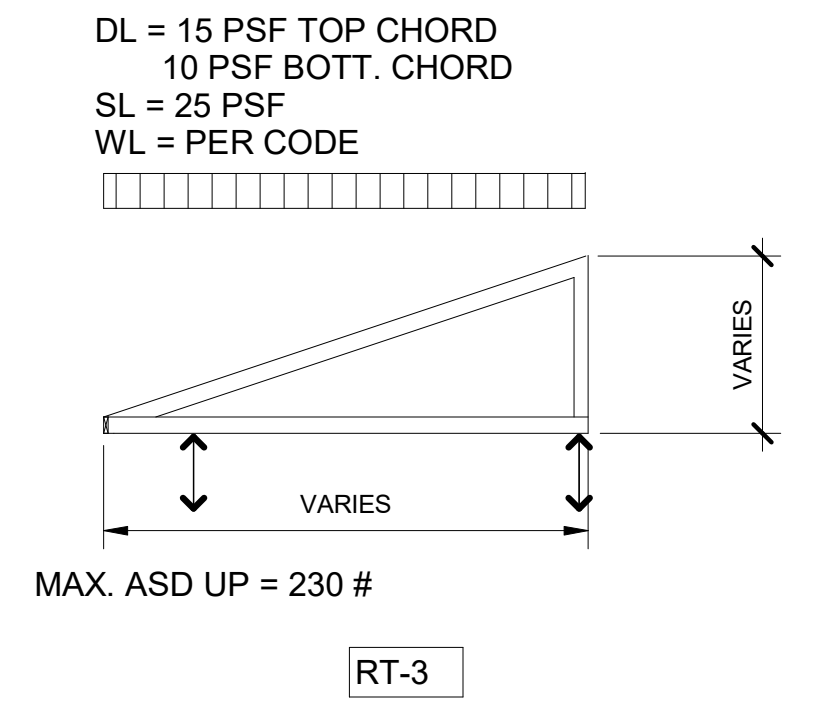
**7 NON-STRUCTURAL CMU WALL BRACING TO WOOD TRUSSES**  
3/4" = 1'-0"  
S\_M-306



RT-1



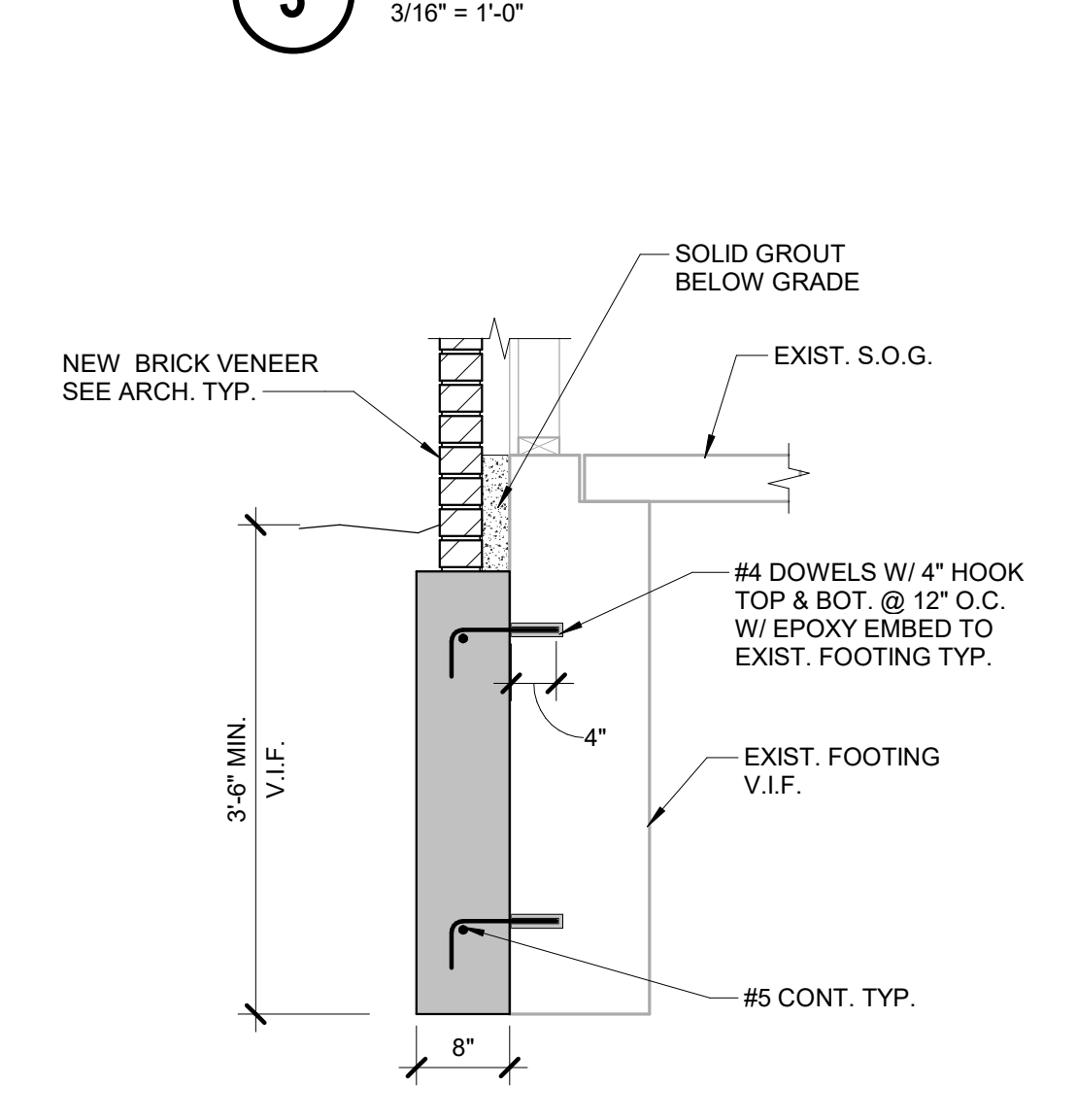
RT-2



RT-3

NOTE:  
1- REFER TO ARCH. DRAWINGS FOR EXACT DIMENSIONS AND ELEVATIONS (DO NOT SCALE; TYPICAL FOR ALL TRUSSES)  
2- WOOD TRUSS SUPPLIER TO SUBMIT SIGNED AND SEALED CALCULATION/SHOP DRAWINGS TO EOR TO REVIEW (REFER TO GENERAL NOTES)  
3- COORDINATE LOCATION /WEIGHT OF HANGING LOADS WITH ARCH./MEP DRAWINGS.  
4- COLLECTOR TRUSSES SHALL BE DESIGNED FOR 200 PLF SHEAR FORCE (WIND LOAD, ASD) IN ADDITIONAL TO ALL OTHER LOAD CASES.

**3 TRUSS DIAGRAMS**  
3/16" = 1'-0"



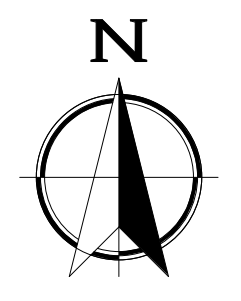
**8 BRICK LEDGE TO EXIST.**  
3/4" = 1'-0"



SECTIONS AND DETAILS

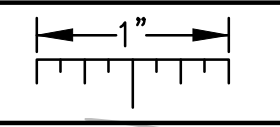
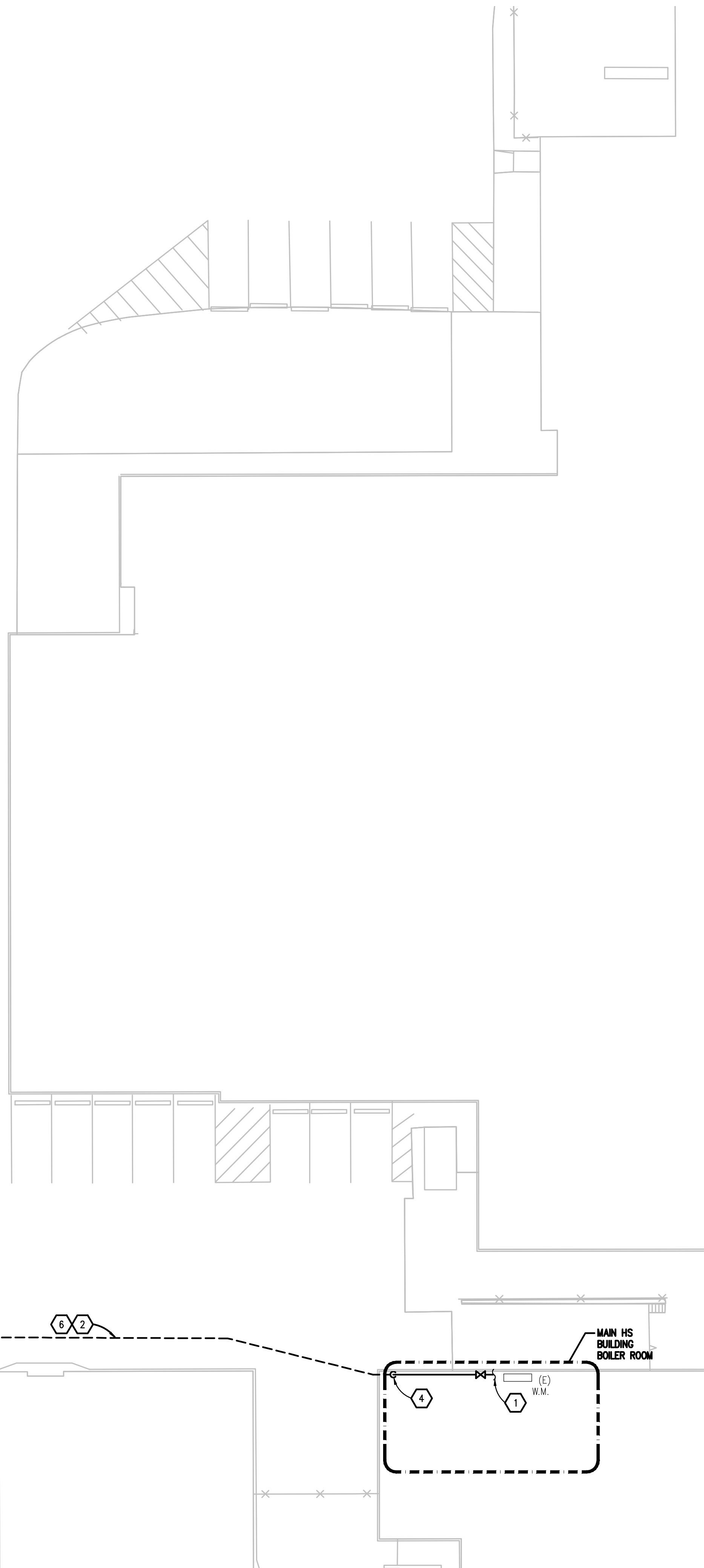
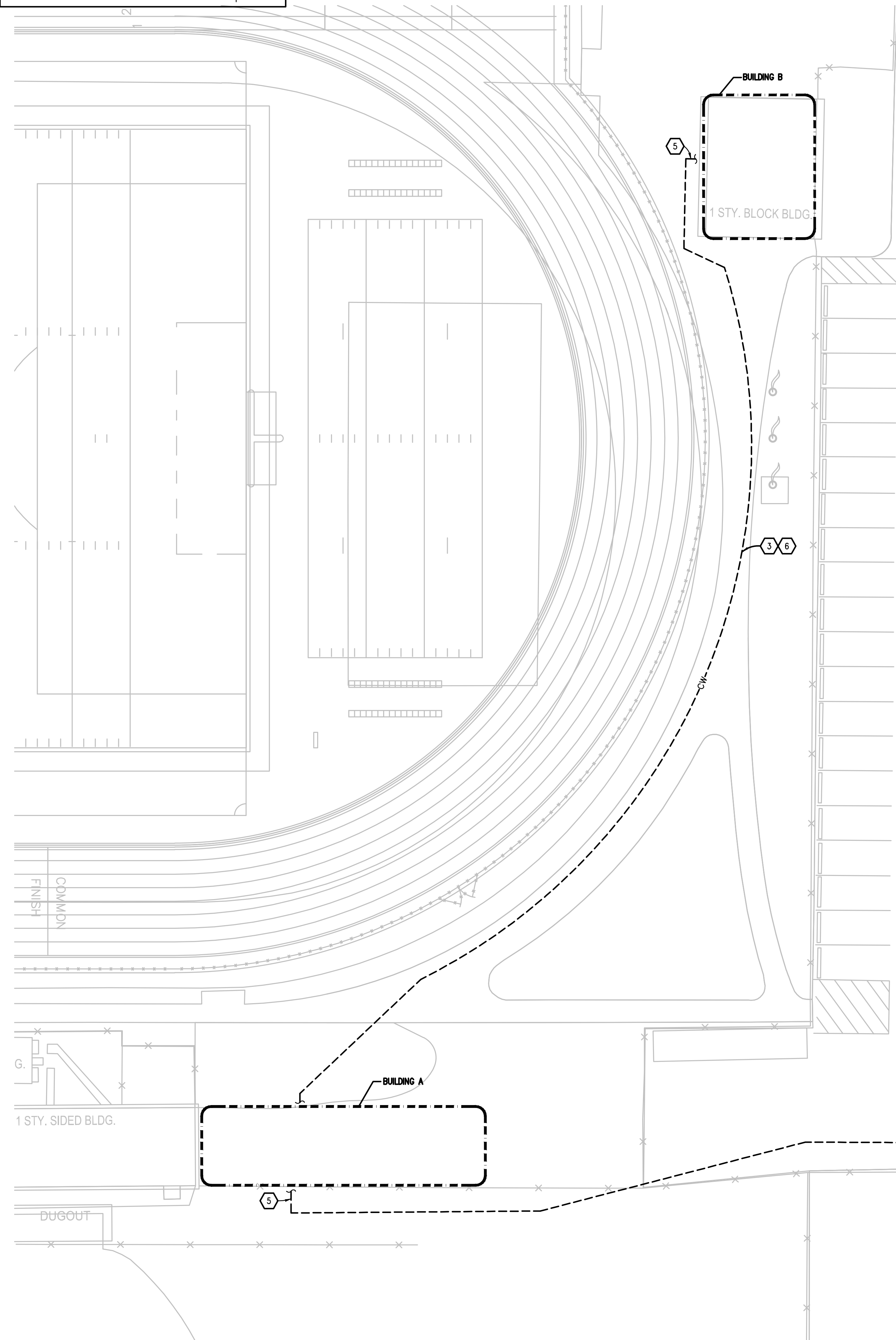


CRESTWOOD HS FIELD BUILDING





THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

**PLUMBING GENERAL NOTES:**

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
8. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".
11. WATER SERVICE ENTRANCE PIPING SHALL BE BURIED WITH DEPTH OF COVER OVER TOP OF PIPE OF AT LEAST 60", OR WITH TOP OF PIPE AT LEAST 12" BELOW LEVEL OF MAXIMUM FROST PENETRATION, OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, WHICHEVER IS DEEPEST.
12. PROVIDE ACCESS PANELS FOR ALL VALVES ABOVE HARD CEILINGS.

**CONSTRUCTION KEY NOTES:**

1. CONNECT NEW 3 CW IN BOILER ROOM DOWNSTREAM OF WATER METER.
2. UNDERGROUND 3 CW LINE. REFER TO CIVIL DRAWINGS.
3. UNDERGROUND 2 CW LINE. REFER TO CIVIL DRAWINGS.
4. 3 CW IN BOILER ROOM DROP DOWN UNDERGROUND. PROVIDE COMPRESSED AIR FITTING BEFORE FLOOR PENETRATION.
5. PROVIDE YARD VALVE BOX. SEE DETAIL.
6. PIPE TO BE MINIMUM 60 INCHES BELOW GRADE.

Bidding and Permits: 20 March 2023

**MECHANICAL COMPOSITE PLAN**  
SCALE: 1/16" = 1' - 0"

**Peter Basso Associates Inc.**  
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5145 Livernois, Suite 100  
Troy, Michigan 48098-3276  
Tel: 248-879-5666  
Fax: 248-879-0007  
www.PeterBassoAssociates.com  
PBA Project No: 2022.0428

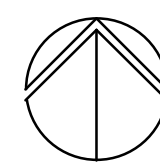
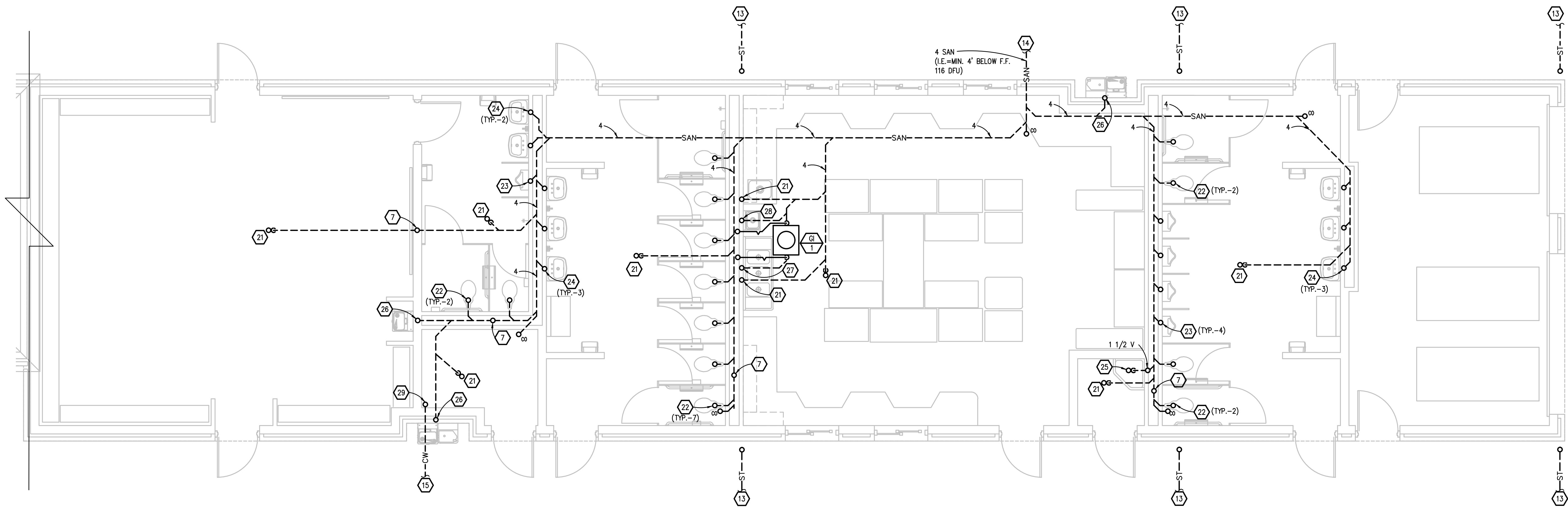
**MECHANICAL COMPOSITE PLAN**  
**EHRESMAN ARCHITECTS**  
ehresmanarchitects.com

Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

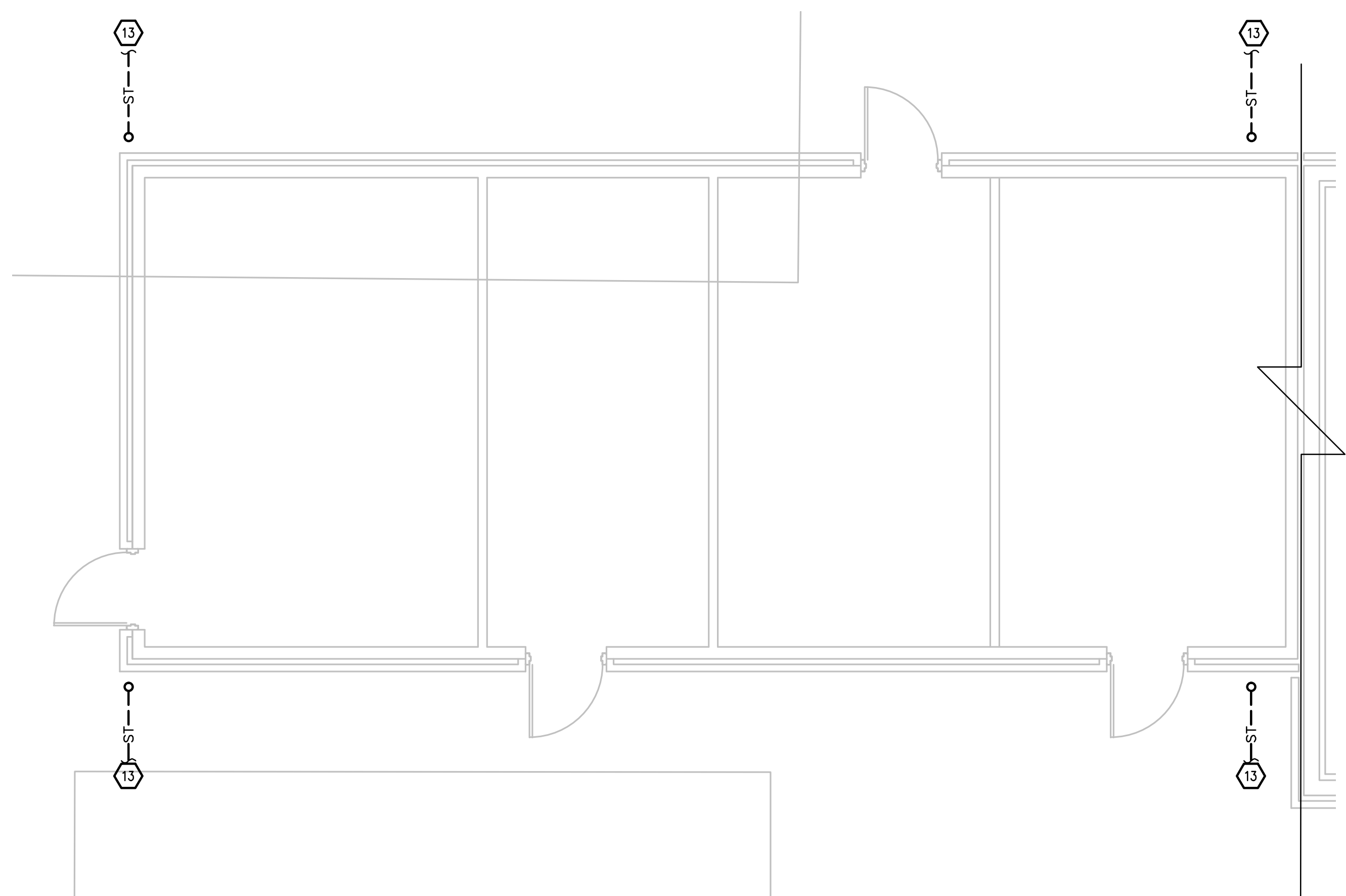
Project No. 5622

M0.20

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**BUILDING A UNDERGROUND PLUMBING PLAN - AREA 1**  
SCALE: 1/4" = 1' - 0"



**BUILDING A UNDERGROUND PLUMBING PLAN - AREA 2**  
SCALE: 1/4" = 1' - 0"

**PLUMBING GENERAL NOTES:**

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
8. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".
11. WATER SERVICE ENTRANCE PIPING SHALL BE BURIED WITH DEPTH OF COVER OVER TOP OF PIPE OF AT LEAST 60", OR WITH TOP OF PIPE AT LEAST 12" BELOW LEVEL OF MAXIMUM FROST PENETRATION, OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, WHICHEVER IS DEEPEST.
12. PROVIDE ACCESS PANELS FOR ALL VALVES ABOVE HARD CEILINGS.

**CONSTRUCTION KEY NOTES:**

1. 3 V UP TO 3 VTR
2. CW GOES DOWN UNDERGROUND TO SERVICE SMALLER FIELDHOUSE. SEE M0.2 FOR CONTINUATION.
3. 3 CW FROM UNDERGROUND. REFER TO U/G PLUMBING PLANS.
4. 2 CW LINE DROPS DOWN TO SERVE (7) WATER CLOSETS, TRIPLE-COMPARTMENT SINK, HAND SINK AND COUNTER SINK, REMAINING UNDIMINISHED. REFER TO FOOD SERVICE DRAWINGS FOR INDIVIDUAL CONNECTION SIZES.
5. 2 CW REMAINS UNDIMINISHED TO FARTHEST FIXTURE.
6. 2 CW LINE DROPS DOWN TO SERVE (4) URINALS AND (4) WATER CLOSETS REMAINING UNDIMINISHED. PROVIDE ISOLATION VALVE.
7. 2 V UP.
8. 2 CW LINE DROPS DOWN TO SERVE (5) LAVATORIES AND (1) URINAL REMAINING UNDIMINISHED.
9. 2 V FROM UNDERGROUND.
10. 1 1/4 HW LINE DROPS DOWN TO SERVE (5) LAVATORIES. PROVIDE 1070 A.S.S.E. THERMOSTATIC MIXING VALVE FOR EACH LAVATORY.
11. 1 1/2 140 HW LINE DROPS DOWN TO FEED TRIPLE COMPARTMENT SINK, HAND SINK AND SINGLE COMPARTMENT COUNTER SINK. PROVIDE 1070 A.S.S.E. THERMOSTATIC MIXING VALVE FOR HAND SINK.
12. 1/2 CW (FILTER) DOWN TO COFFEE MAKER. PROVIDE ASSOCIATED WALL MOUNTED INLINE FILTER 48" A.F.F.. PROVIDE CODE COMPLIANT BACKFLOW PREVENTION DEVICE FOR THE CW LINE TO THE COFFEE MAKER.
13. 4 STORM. REFER TO CIVIL FOR INVERT ELEVATION.
14. 4 SANITARY. REFER TO CIVIL.
15. INCOMING 3 CW LINE. (FROM MAIN BOILER ROOM) REFER TO 'INCOMING DOMESTIC WATER PIPING DETAIL'.
16. EQUIPMENT TO SIT ON 4 INCH CONCRETE HOUSEKEEPING PAD.
17. SERVICE CLEARANCE.
18. BOOSTER PUMP CONTROL PANEL. (PROVIDE MIN. 42 INCH CLEARANCE IN FRONT)
19. INCOMING U/G 2 CW FROM LARGER 'BUILDING A'.
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23. 3 SAN UP TO URINAL.
24. 3 SAN UP TO LAVATORY.
25. 3 SAN UP TO SERVICE SINK.
26. 3 SAN UP TO ELECTRIC WATER COOLER.
27. 3 SAN UP TO SINK BASIN.
28. 3 SAN UP TO HAND SINK.
29. CW LINE UP. SEE ABOVEGROUND PLUMBING PLANS FOR CONTINUATION.
30. PROVIDE A.S.S.E 1070 THERMOSTATIC MIXING VALVE FOR HAND SINK.

Bidding and Permits: 20 March 2023

**BUILDING A UNDERGROUND PLUMBING PLAN**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

M2.00

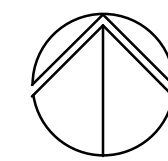
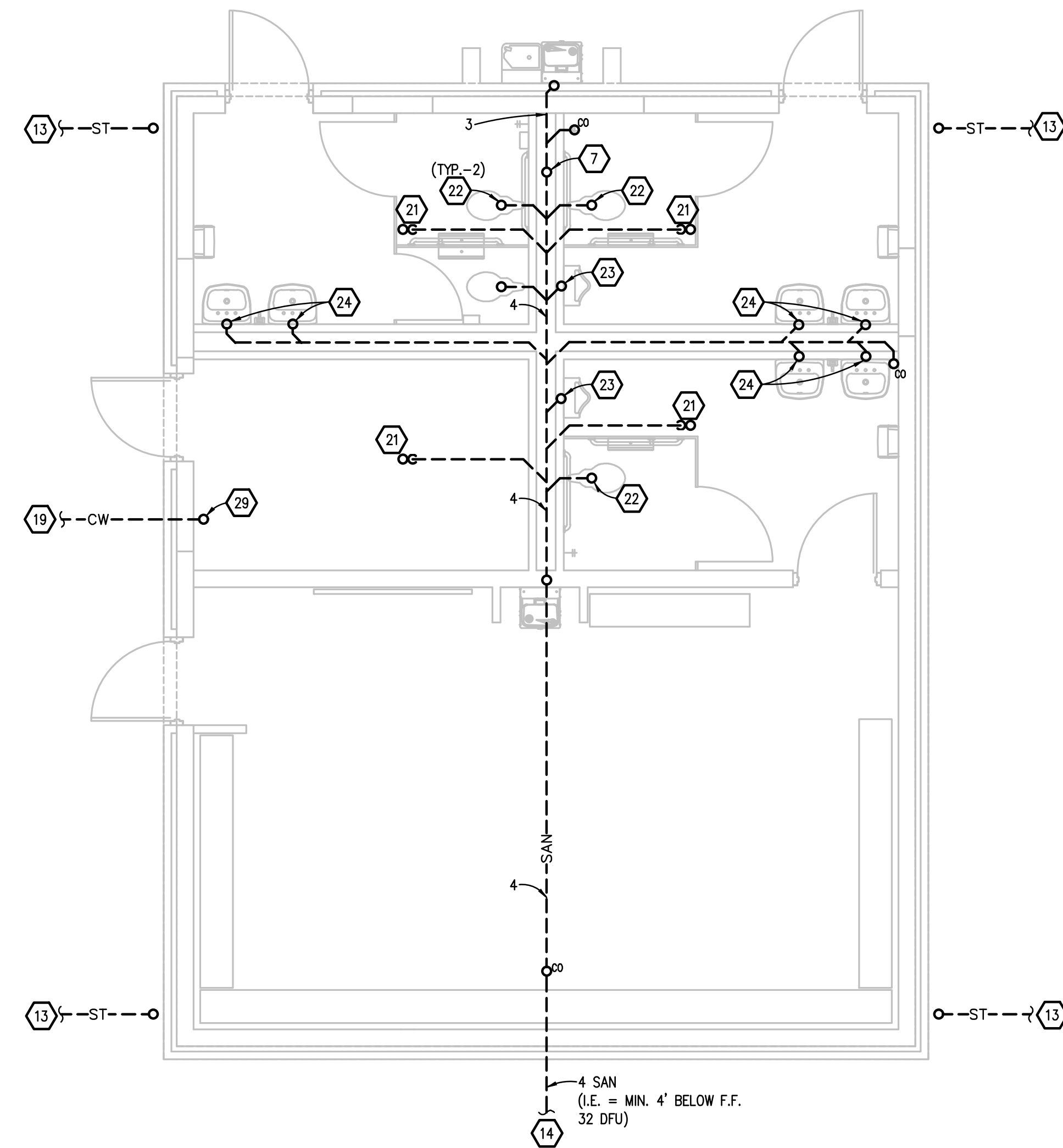
**Peter Basso Associates Inc.**  
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PBA Project No: 2022.0428

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9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".
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## CONSTRUCTION KEY NOTES:

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5. 2 CW REMAINS UNDIMINISHED TO FARTHEST FIXTURE.
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7. 2 V UP.
8. 2 CW LINE DROPS DOWN TO SERVE (5) LAVATORIES AND (1) URINAL REMAINING UNDIMINISHED.
9. 2 V FROM UNDERGROUND.
10. 1 1/4 HW LINE DROPS DOWN TO SERVE (5) LAVATORIES. PROVIDE 1070 A.S.S.E. THERMOSTATIC MIXING VALVE FOR EACH LAVATORY.
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**BUILDING B UNDERGROUND PLUMBING PLAN**  
SCALE: 1/4" = 1' - 0"

Bidding and Permits: 20 March 2023

## BUILDING B UNDERGROUND PLUMBING PLAN

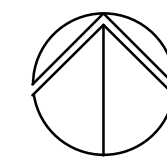
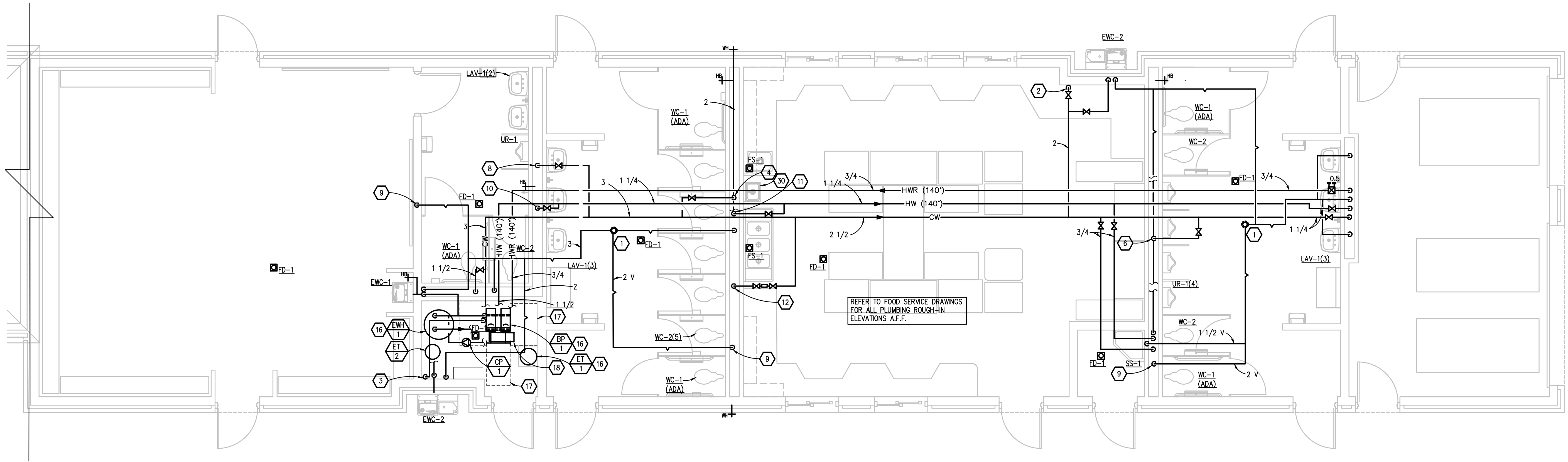


Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

M2.01

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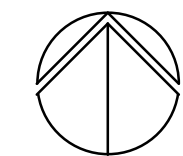
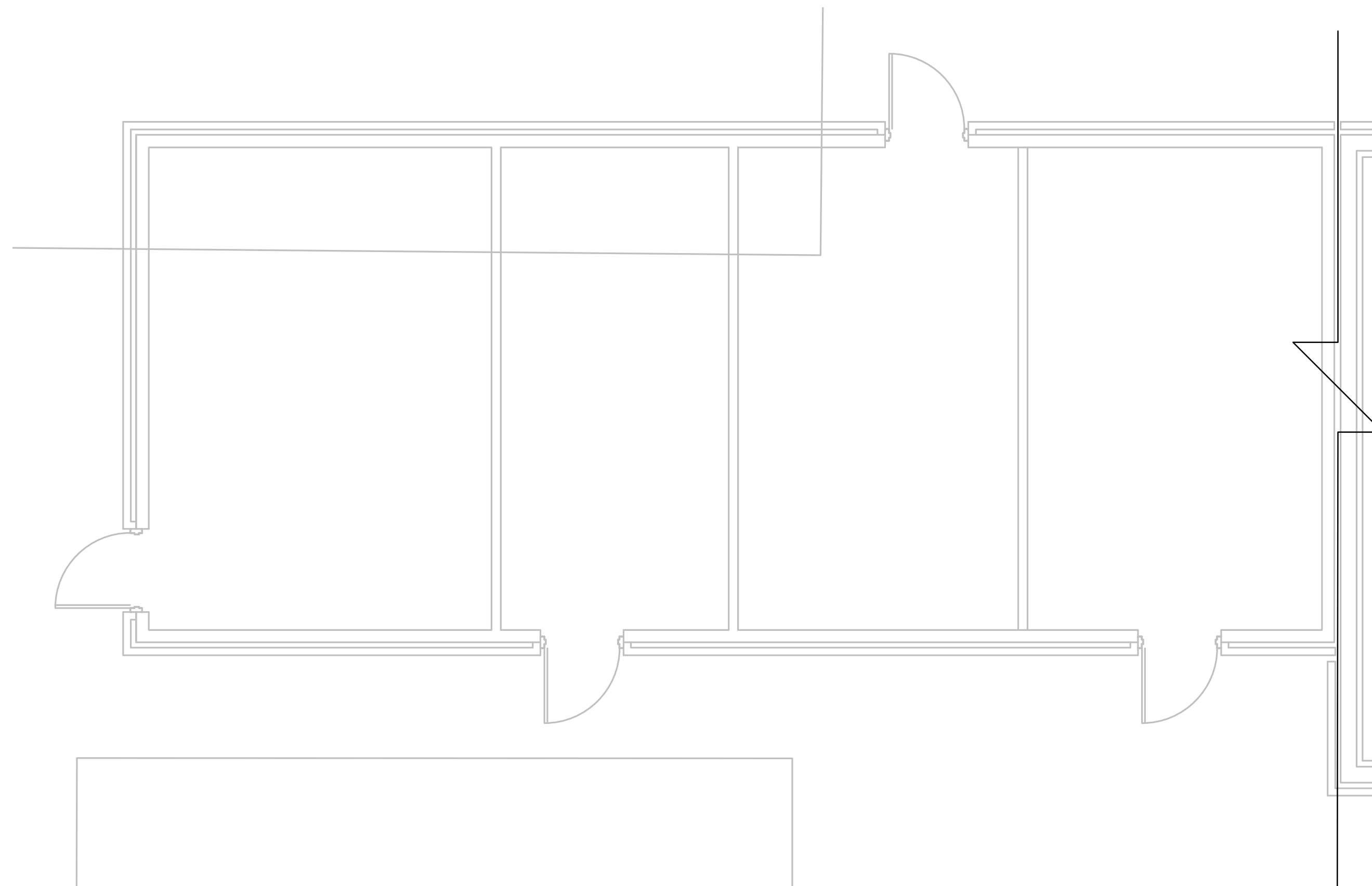
**BUILDING A PLUMBING PLAN - AREA 1**  
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**BUILDING A PLUMBING PLAN - AREA 2**  
SCALE: 1/4" = 1' - 0"

Bidding and Permits: 20 March 2023

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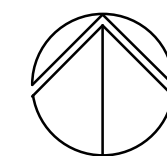
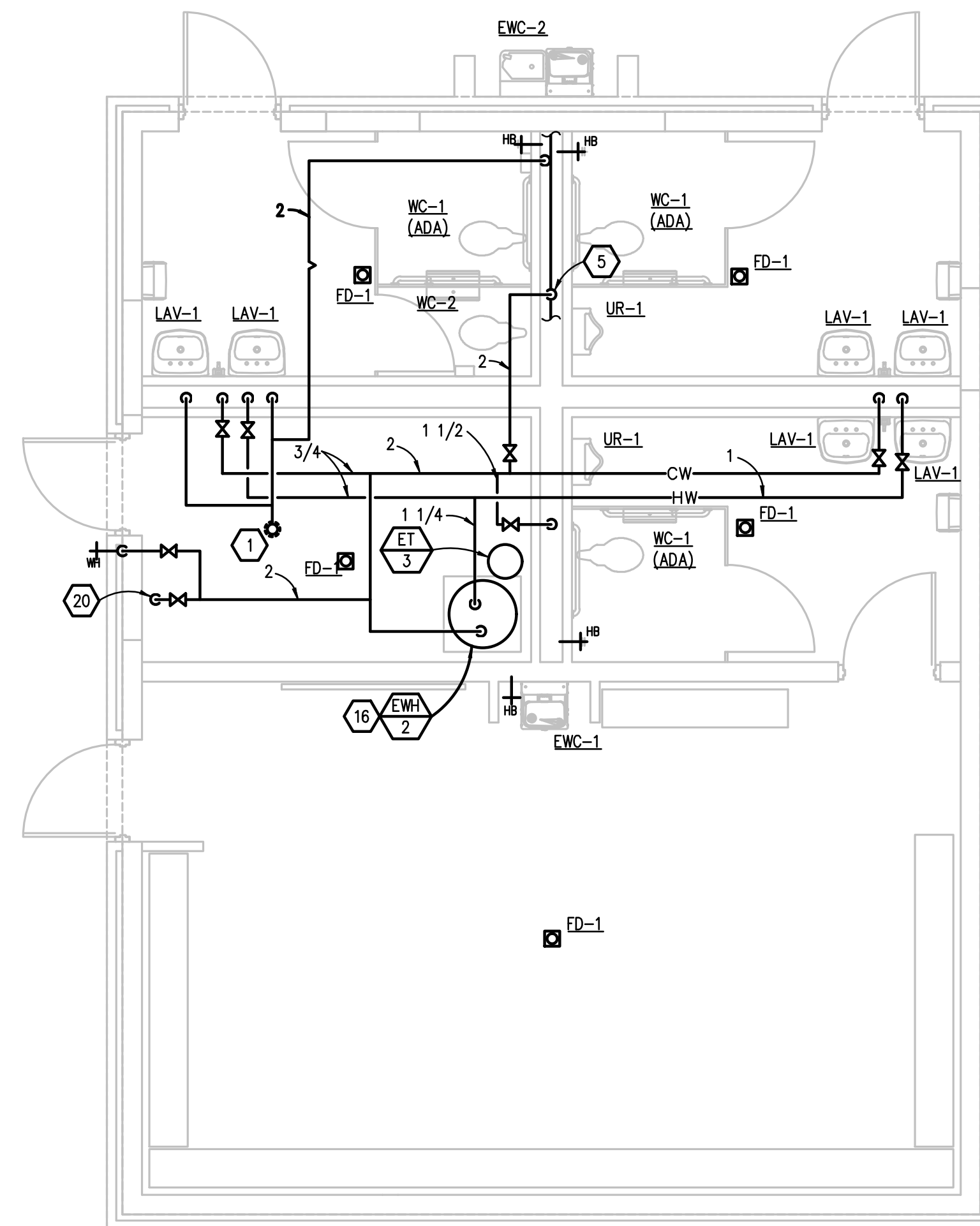
**BUILDING A PLUMBING PLAN**

Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

M2.10

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**BUILDING B PLUMBING PLAN**  
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**BUILDING B PLUMBING PLAN**

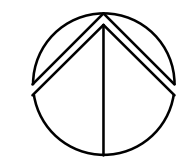
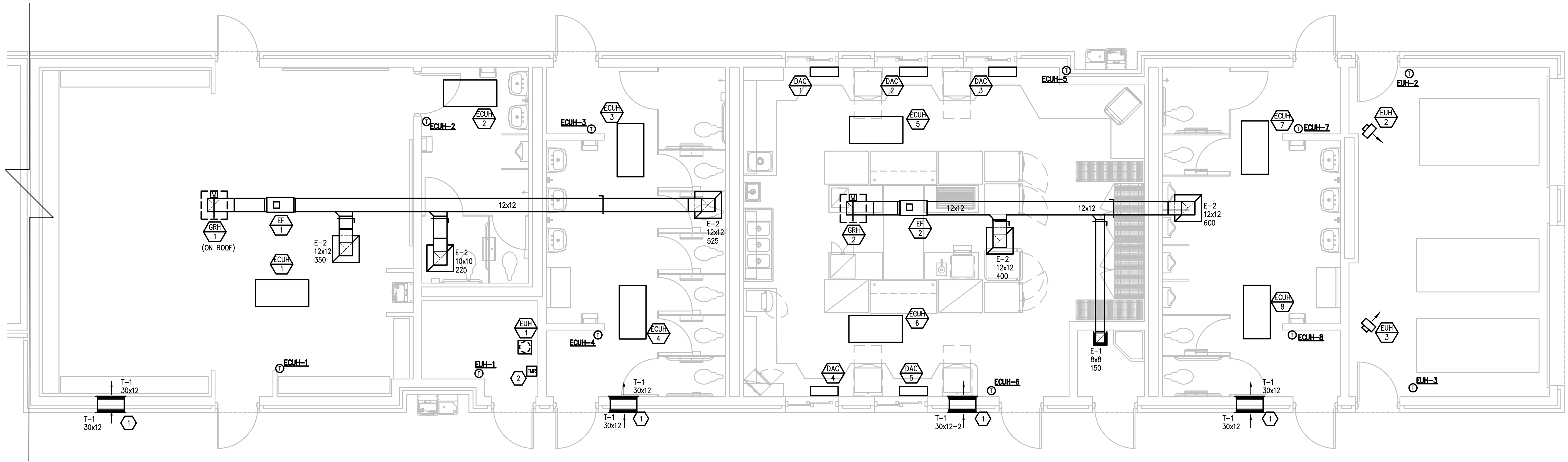


Crestwood School District  
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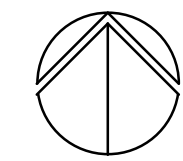
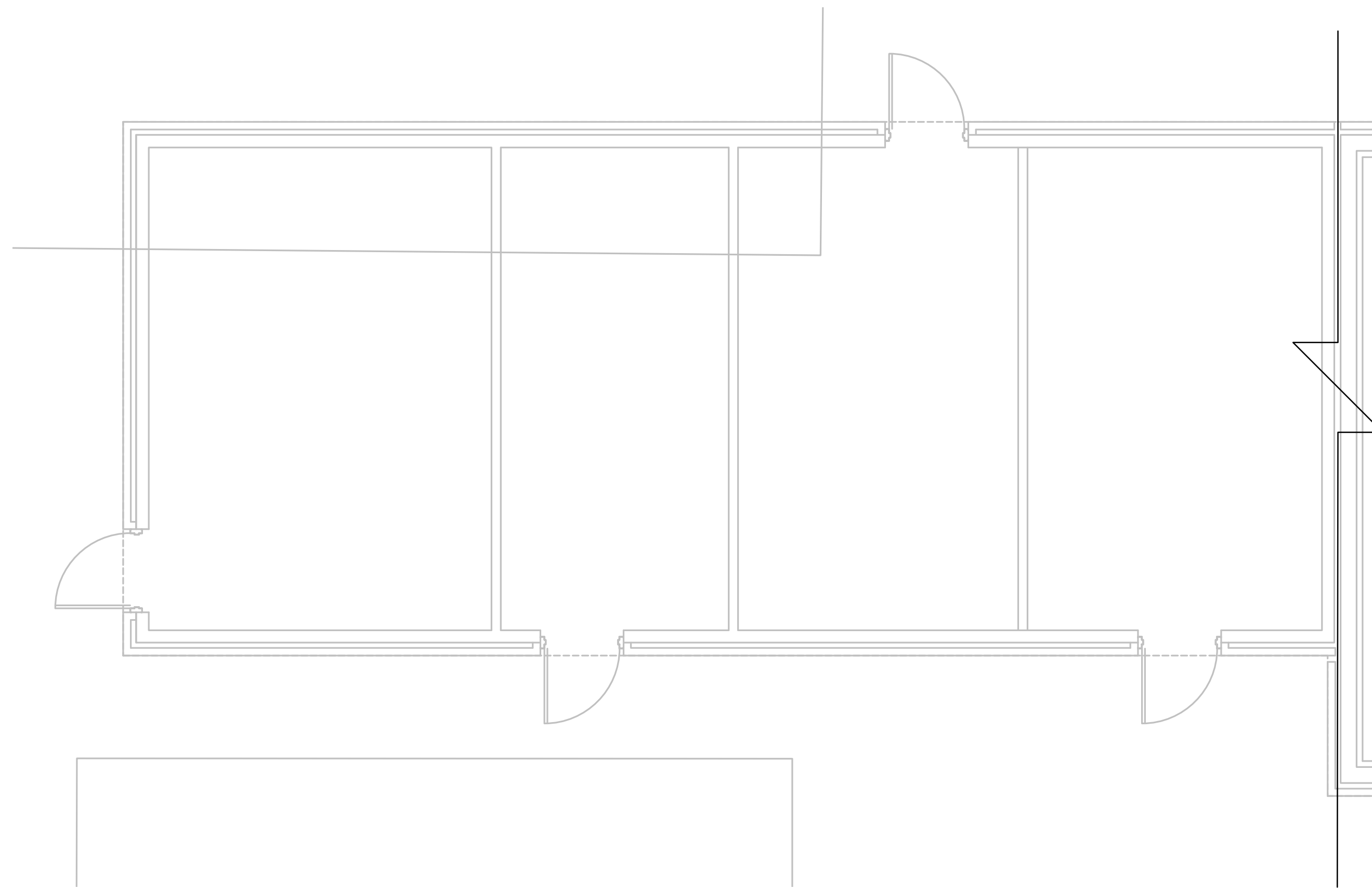
Project No. 5622

M2.11

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**BUILDING A SHEET METAL PLAN - AREA 1**  
SCALE: 1/4" = 1' - 0"



**BUILDING A SHEET METAL PLAN - AREA 2**  
SCALE: 1/4" = 1' - 0"

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1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
7. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.
8. PROVIDE ACCESS PANELS FOR BALANCING DAMPERS, MOTORIZED CONTROL DAMPERS AND EXHAUST FANS ABOVE HARD CEILINGS.

**# CONSTRUCTION KEY NOTES:**

1. TRANSFER GRILLE HIGH ON WALL. REFER TO ARCHITECTURAL FOR ELEVATIONS.
2. EXHAUST FAN CONTROL TIMER.

Bidding and Permits: 20 March 2023

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Peter Basso Associates Inc.  
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5145 Livernois, Suite 100  
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Fax: 248-879-0007  
www.PeterBassoAssociates.com  
PBA Project No: 2022.0428

**BUILDING A SHEET METAL PLAN**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

M4.10

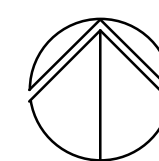
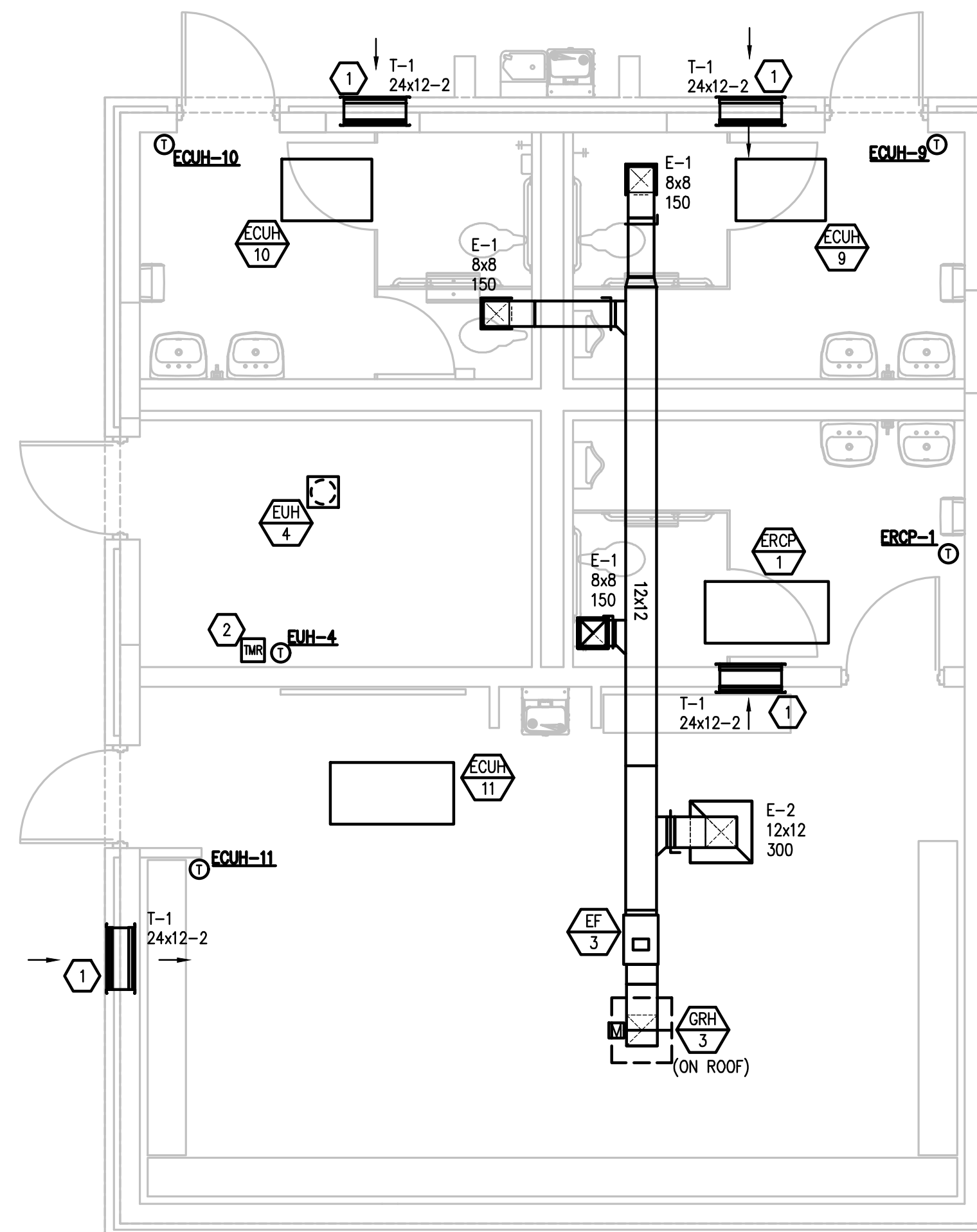


**SHEET METAL GENERAL NOTES:**

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
7. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.
8. PROVIDE ACCESS PANELS FOR BALANCING DAMPERS, MOTORIZED CONTROL DAMPERS AND EXHAUST FANS ABOVE HARD CEILINGS.

**CONSTRUCTION KEY NOTES:**

1. TRANSFER GRILLE HIGH ON WALL. REFER TO ARCHITECTURAL FOR ELEVATIONS.
2. EXHAUST FAN CONTROL TIMER.



**BUILDING B SHEET METAL PLAN**  
SCALE: 1/4" = 1' - 0"

Bidding and Permits: 20 March 2023

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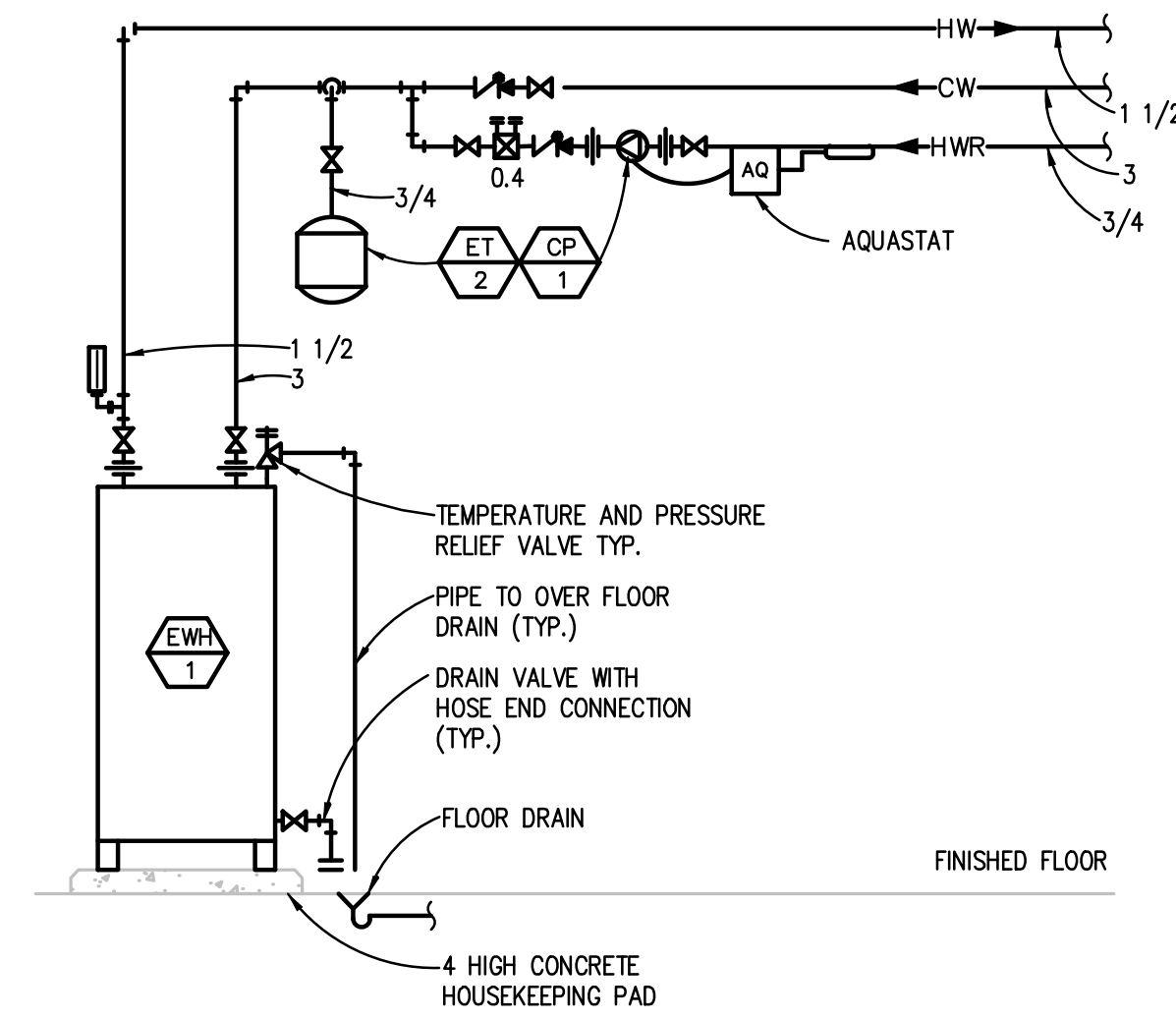
**BUILDING B SHEET METAL PLAN**



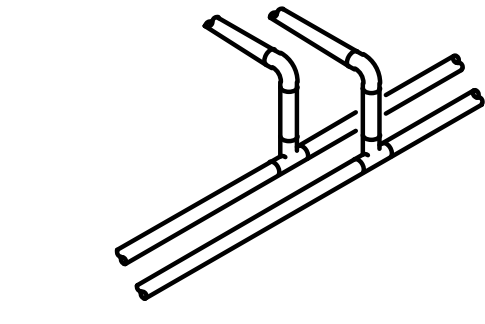
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

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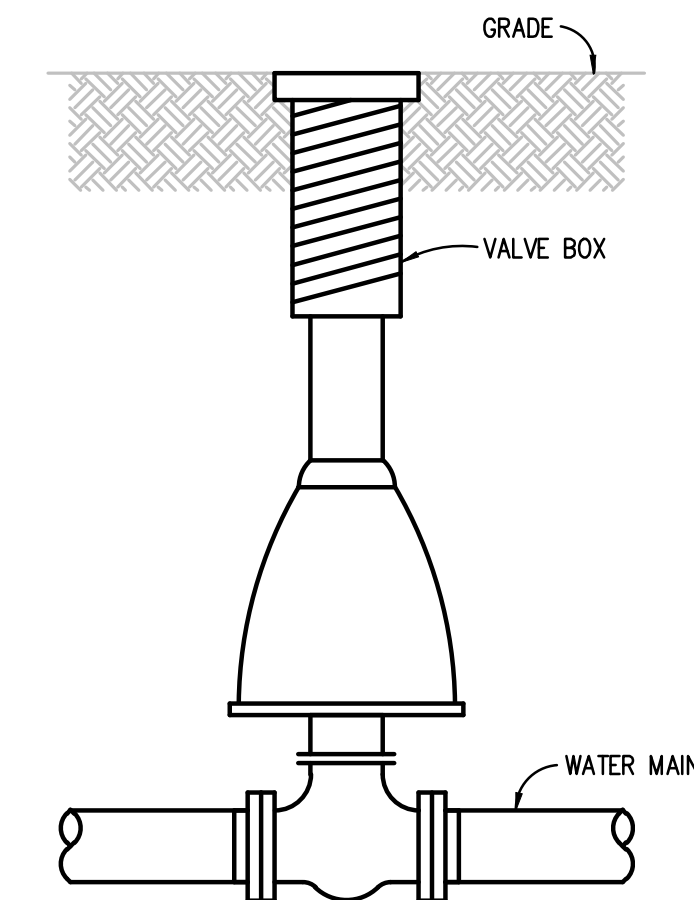


**ELECTRIC WATER HEATER PIPING DIAGRAM**  
NO SCALE

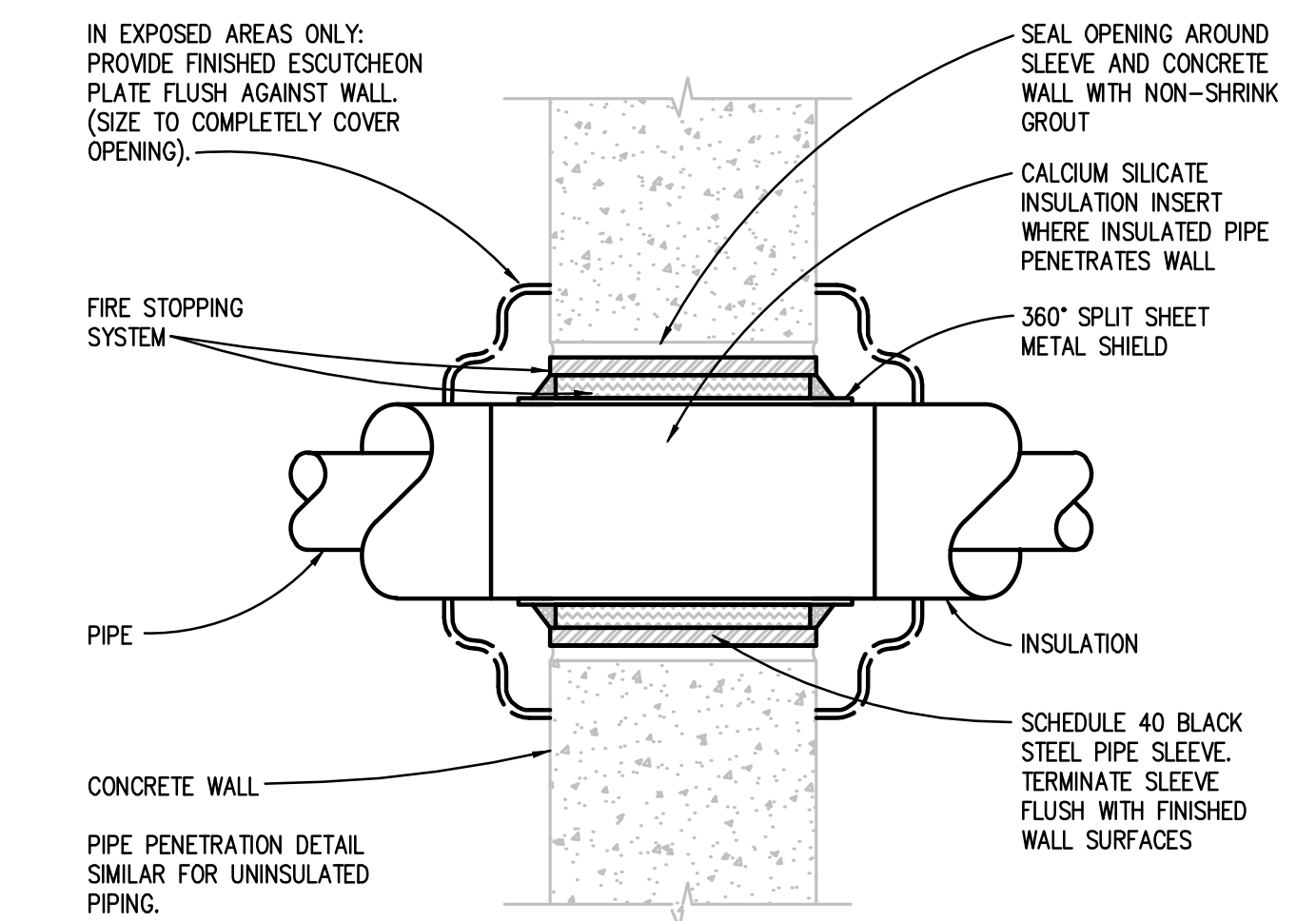


**BRANCH CONNECTION OFF TOP**  
APPLIES TO THE FOLLOWING SYSTEMS:  
DOMESTIC WATER

**TYPICAL BRANCH TAKE-OFF CONNECTION PIPING DETAIL**  
NO SCALE

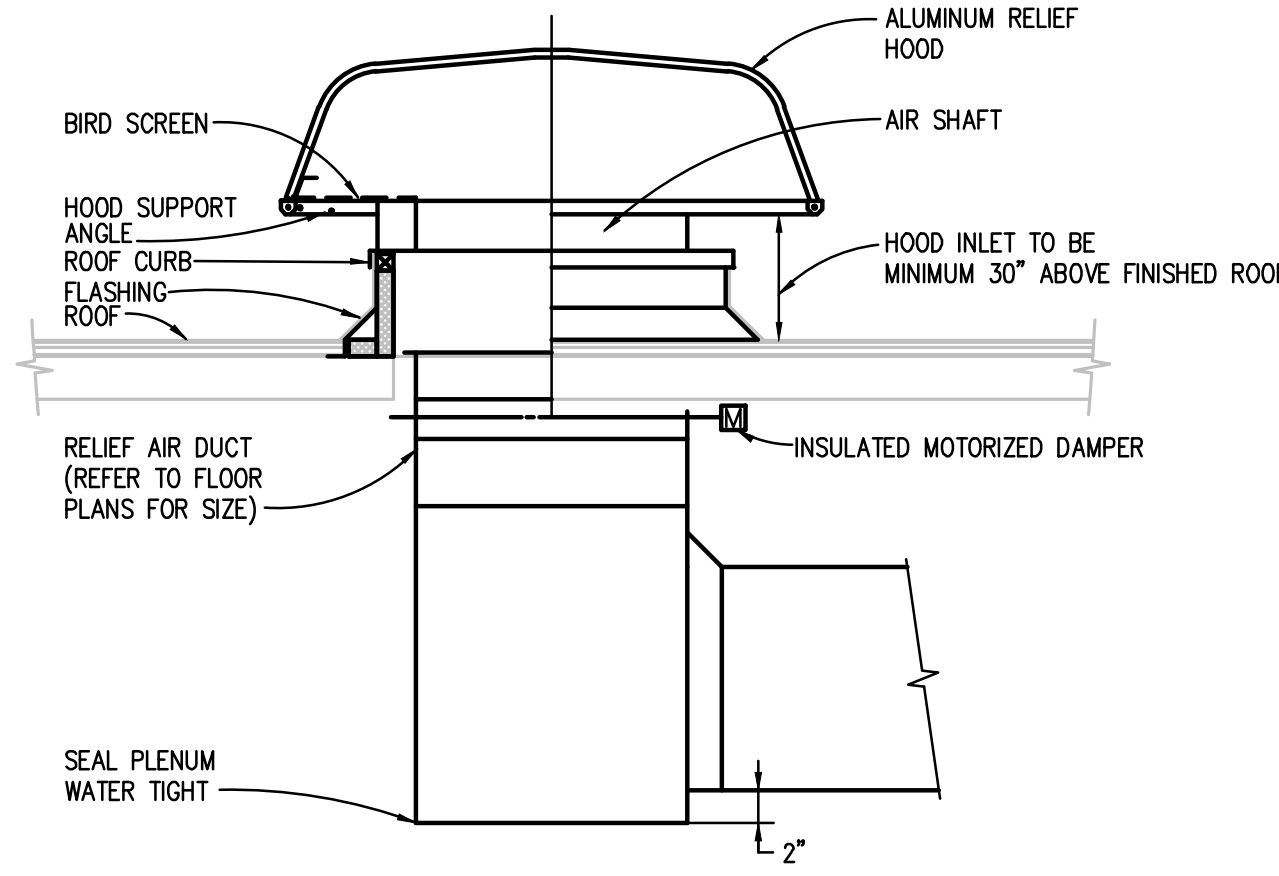


**VALVE BOX DETAIL**  
NO SCALE

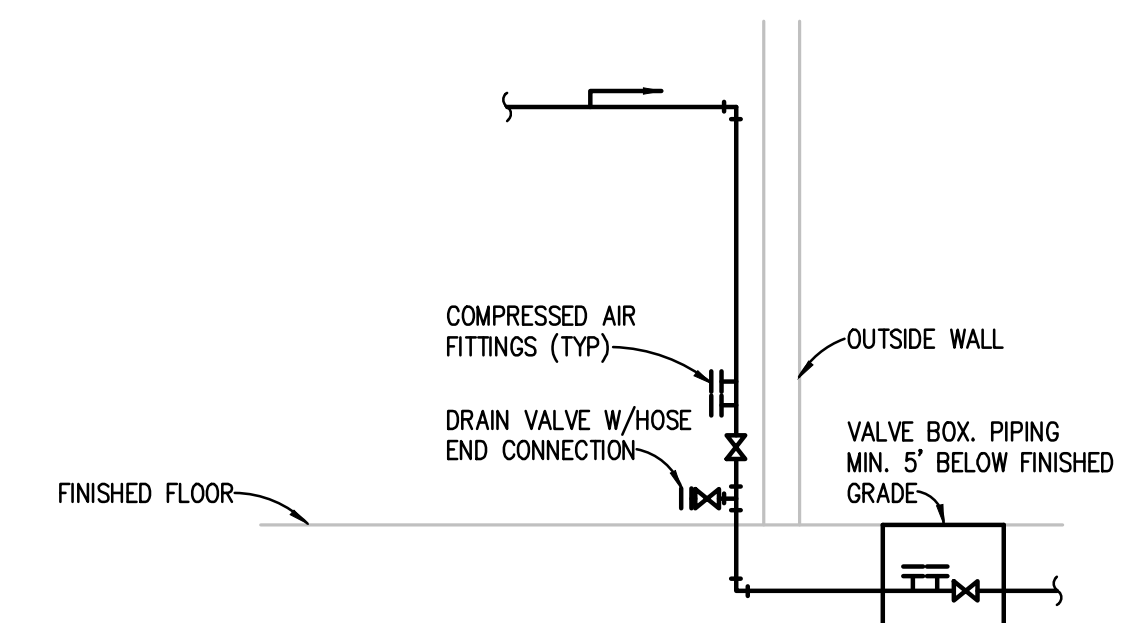


DETAIL INDICATES THE INSTALLATION REQUIREMENTS FOR A FIRE RATED ASSEMBLY. FOR A NON-FIRE RATED ASSEMBLY PACK SLEEVED OPENING WITH INSULATION MATERIAL AND CAULK WITH NON-HARDENING SEALANT.

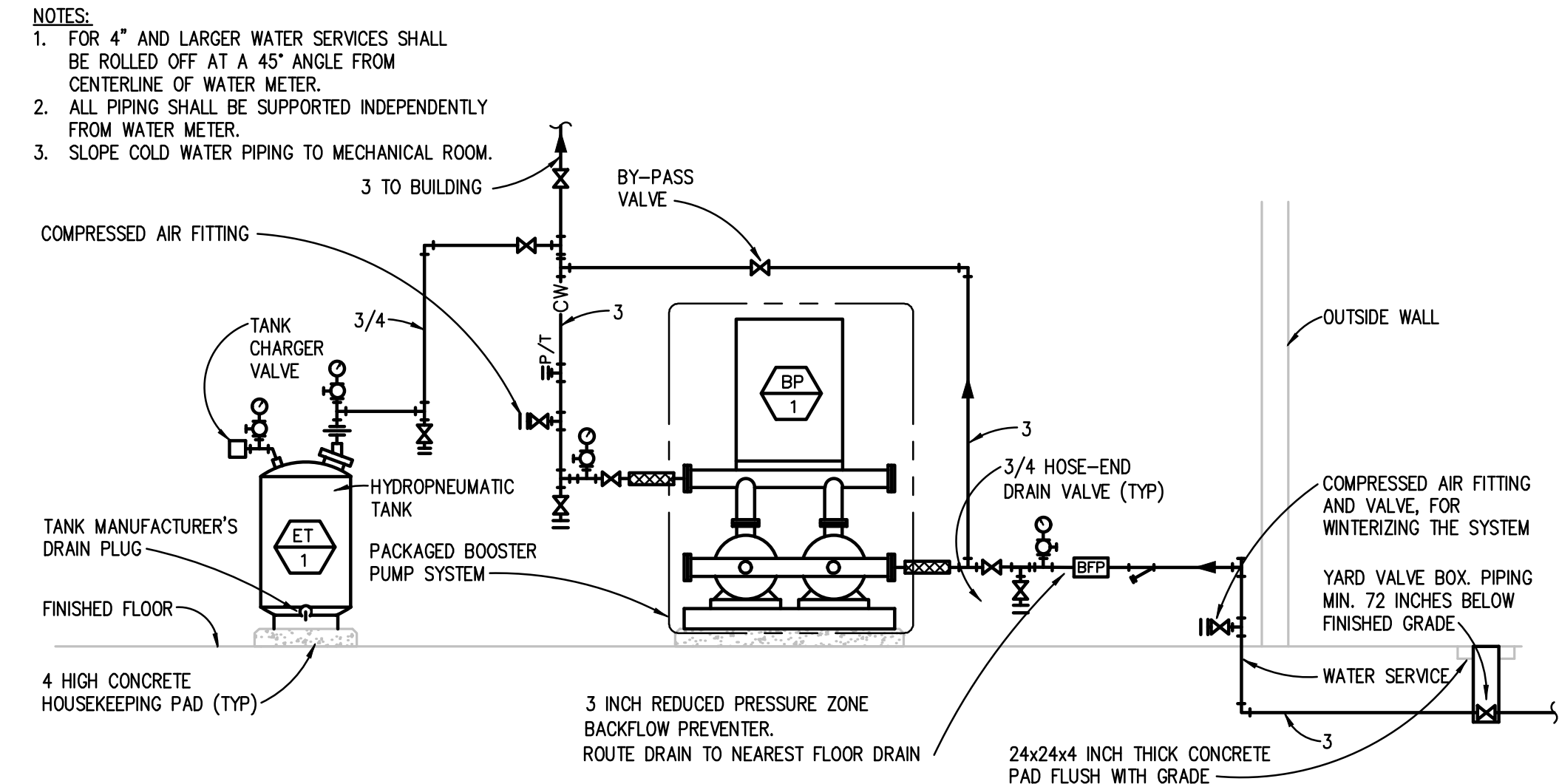
**FIRE RATED AND NON-FIRE RATED POURED CONCRETE OR BLOCK WALL PIPE PENETRATION DETAIL**  
NO SCALE



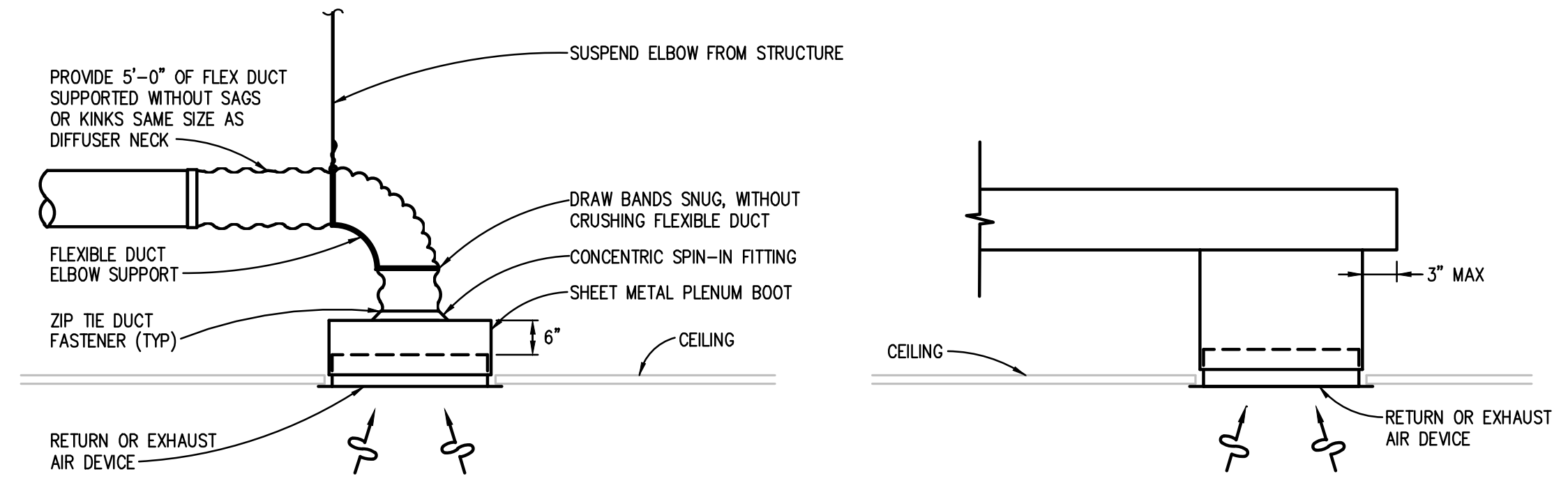
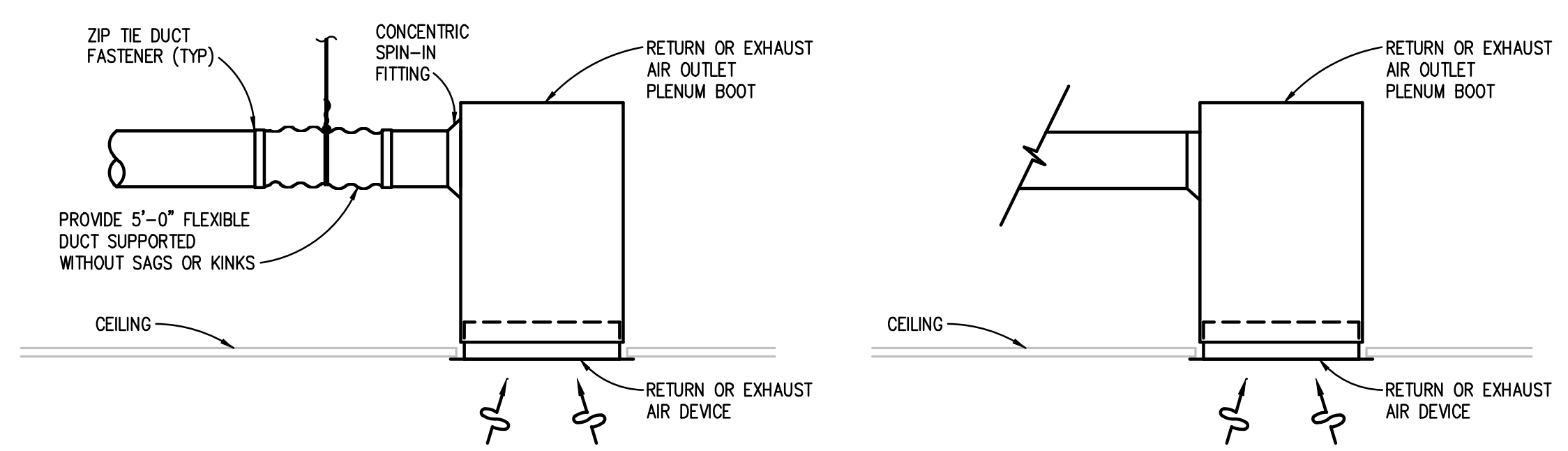
**DUCTED INTAKE OR RELIEF HOOD INSTALLATION DETAIL**  
NO SCALE



**INCOMING DOMESTIC WATER PIPING DIAGRAM**  
NO SCALE

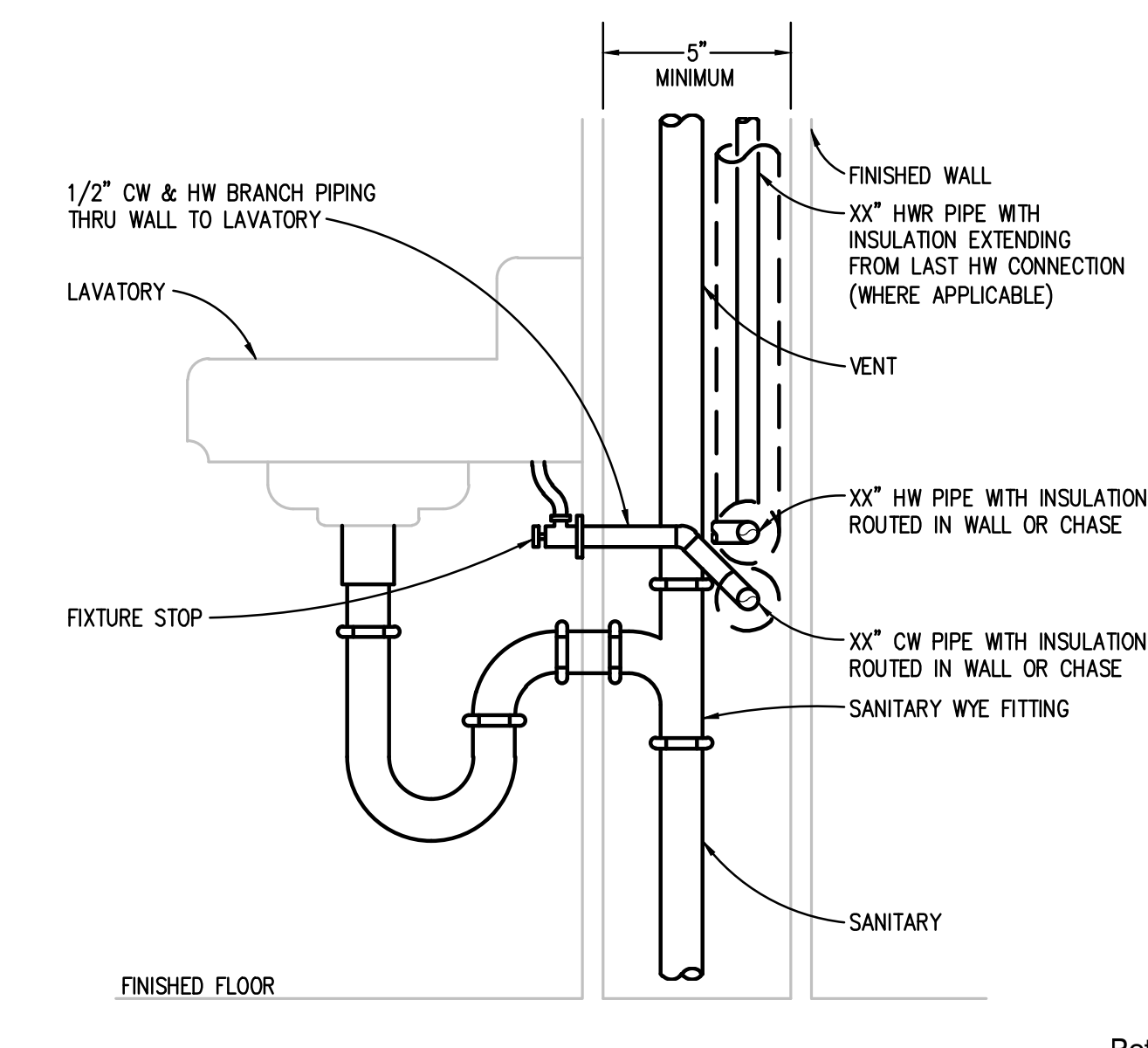


**DOMESTIC WATER METER AND BOOSTER PUMP PIPING DIAGRAM**  
NO SCALE



**RETURN OR EXHAUST AIR DEVICE INSTALLATION DETAIL**  
NO SCALE

NOTE: PAINT INTERIOR SURFACE OF PLENUM BOX FLAT BLACK.



**TYPICAL LAVATORY DETAIL**  
NO SCALE

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**MECHANICAL DETAILS**  
**EHRESMAN ARCHITECTS**  
ehresmanarchitects.com

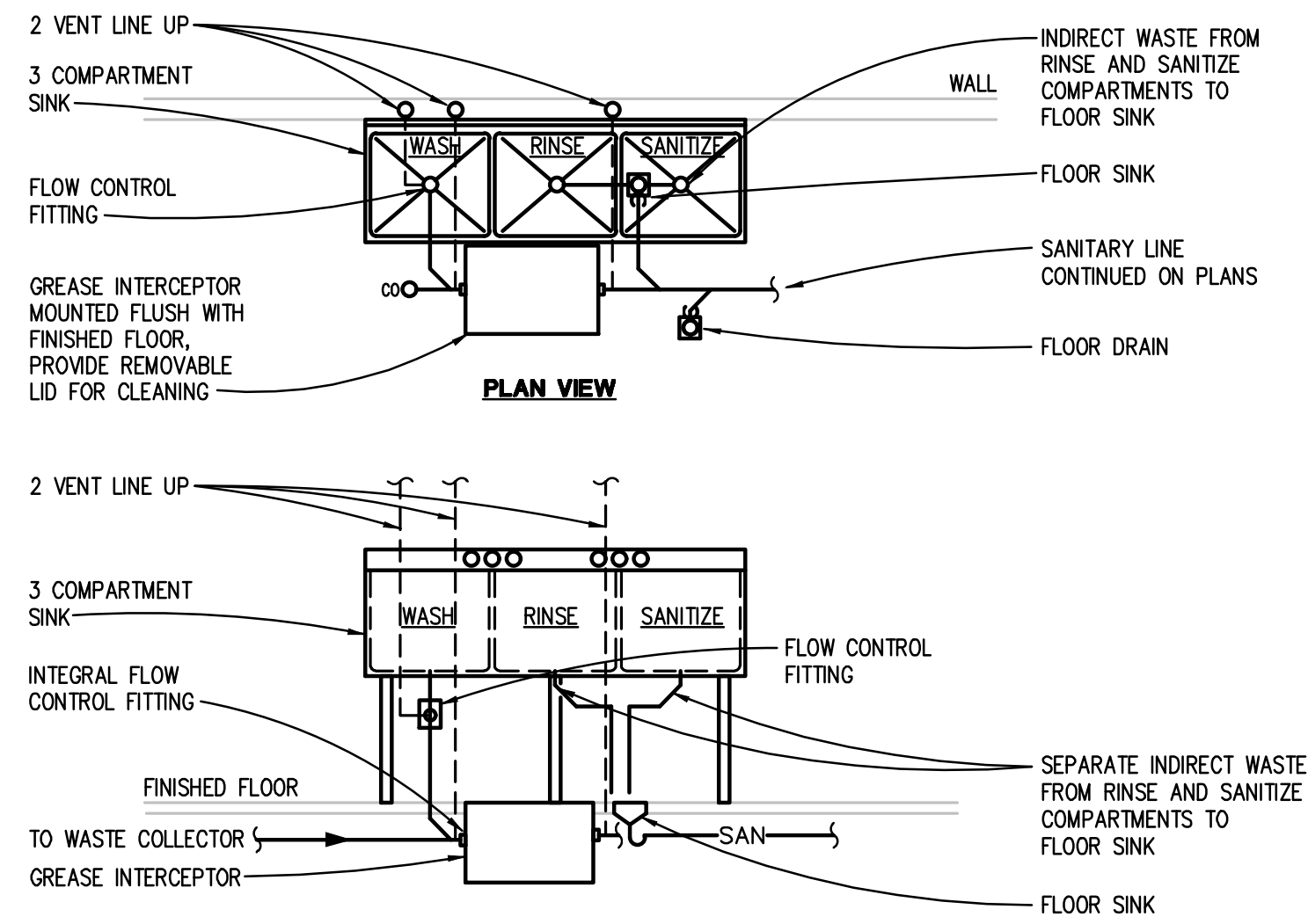
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Field Building & Site Improvements

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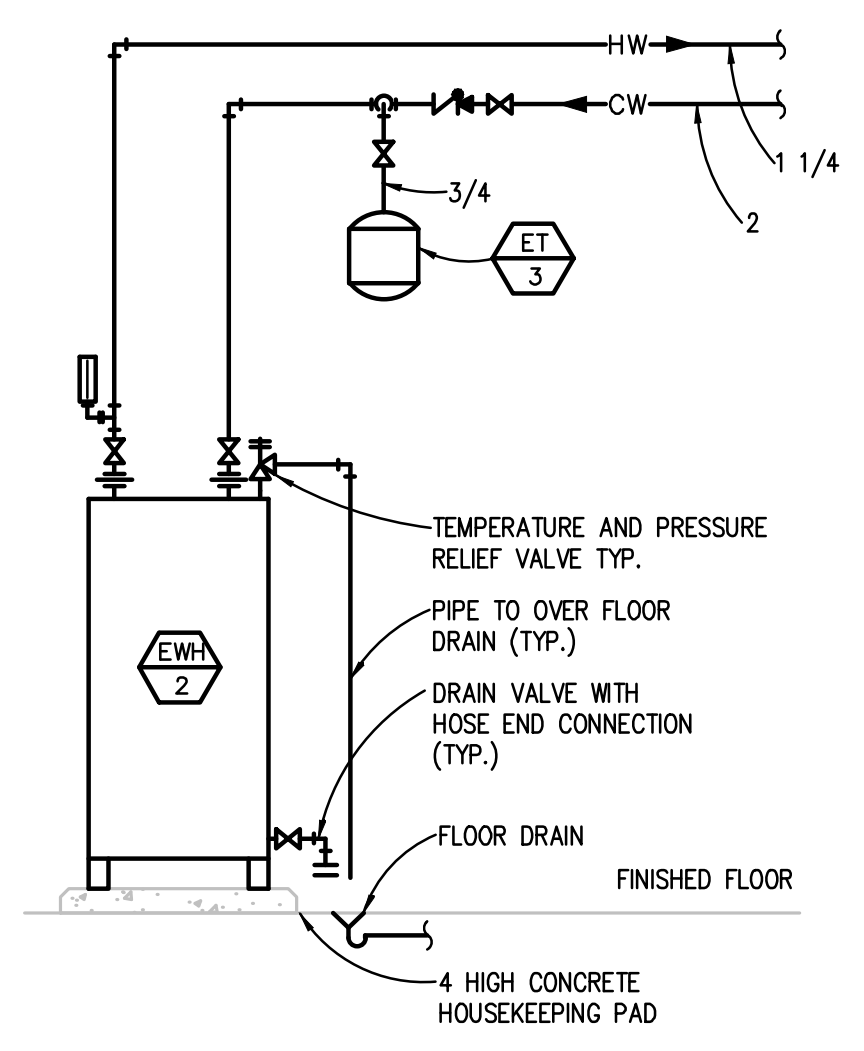
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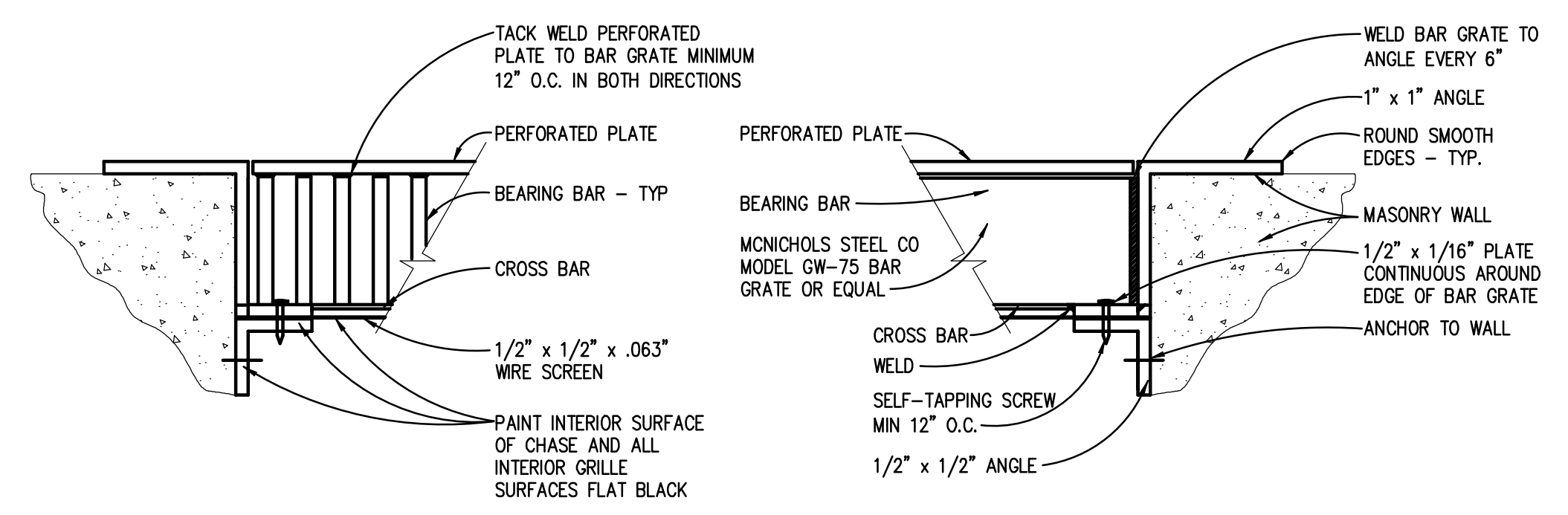
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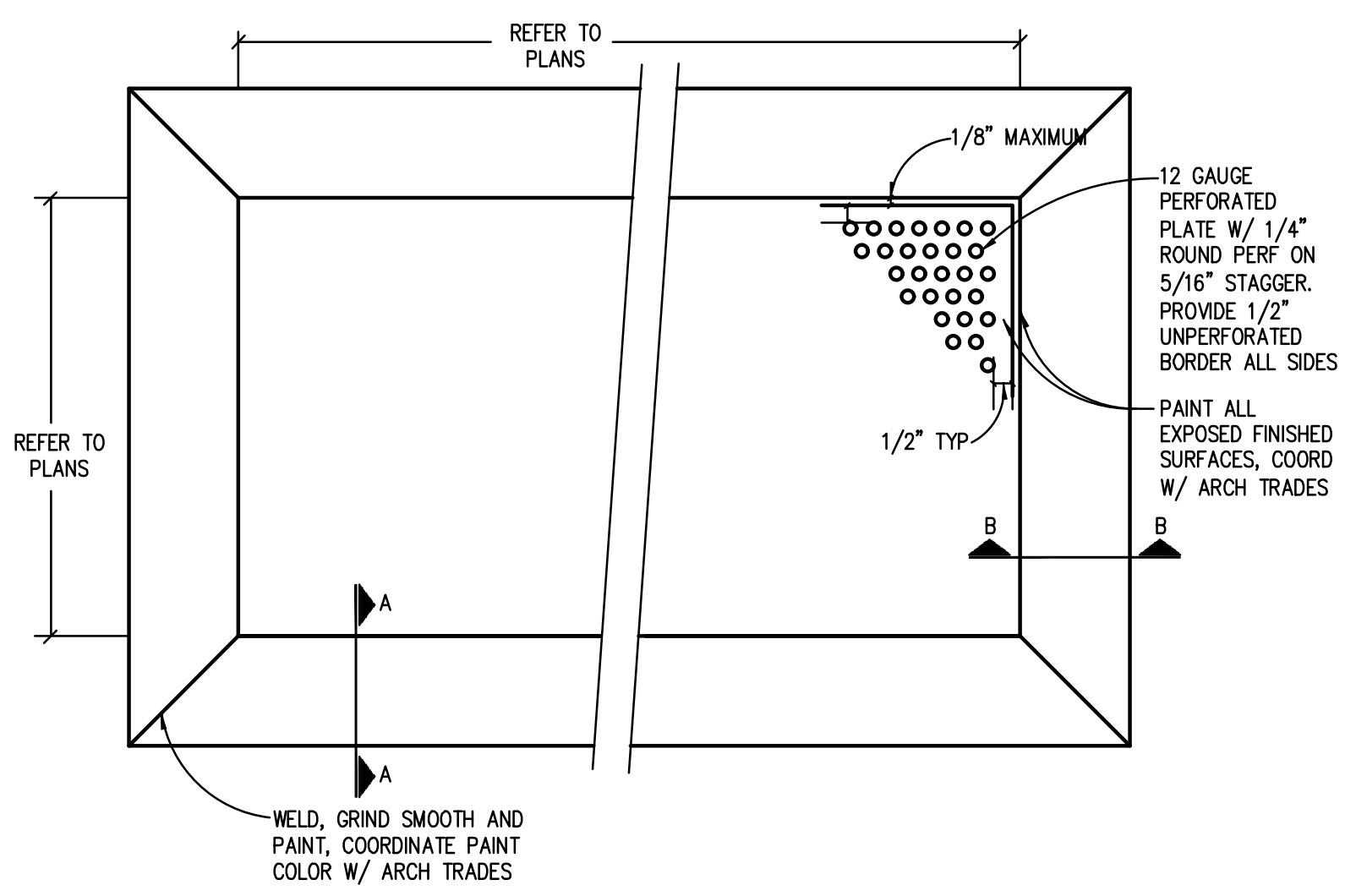
**GREASE INTERCEPTOR DETAIL**  
NO SCALE



**ELECTRIC WATER HEATER PIPING DIAGRAM**  
NO SCALE



**SECTION 'B-B'** NO SCALE  
**SECTION 'A-A'** NO SCALE



NOTES:  
GRIND AND DEBURR ALL SURFACES PRIOR TO APPLYING FINISH.

**HEAVY DUTY RETURN AIR GRILLE DETAIL**  
NO SCALE



**NEW DOMESTIC WATER CONNECTION LOCATION IN BOILER ROOM DIAGRAM**  
NO SCALE

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MECHANICAL DETAILS  
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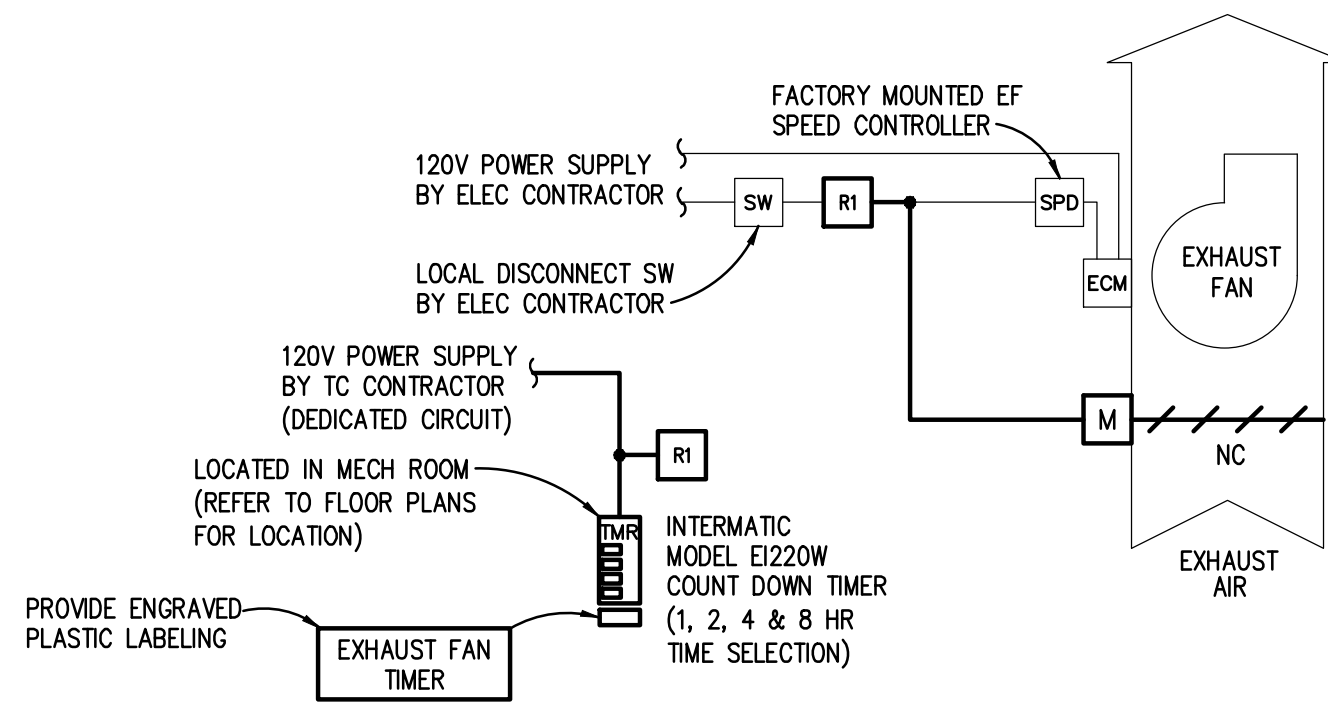
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## TEMPERATURE CONTROL - SYMBOLS LIST

SCHEMATIC SYMBOLS		WIRING SYMBOLS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DAMPER - PARALLEL BLADE		COIL - RELAY
	DAMPER MOTOR		DIGITAL TIMER
	RELAY, ELECTRIC		CONTACT - INSTANT OPERATING, NO
	SWITCH		GROUND
	THERMOSTAT OR TEMPERATURE SENSOR (AS DEFINED ON TC DRAWINGS)		MOTOR, SINGLE PHASE
	TIMER SWITCH		

### TC GENERAL NOTES

- THESE GENERAL NOTES SHALL BE APPLICABLE FOR ALL TEMPERATURE CONTROL (TC) DRAWINGS.
- "PROVIDE" IS DEFINED AS FURNISH AND INSTALL.
- TEMPERATURE CONTROLS CONTRACTOR (TC CONTRACTOR) SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.
- FOR TEMPERATURE CONTROL DRAWINGS ONLY: ALL DETAILED INFORMATION IDENTIFIED WITH HEAVY LINE WEIGHT SHALL BE PROVIDED BY TC CONTRACTOR. ALL OTHER INFORMATION IDENTIFIED WITH LIGHT LINE WEIGHT SHALL BE PROVIDED BY OTHER TRADES.
- ALL CONTROL SCHEMATICS AND WIRING DIAGRAMS ARE FOR THE CLARIFICATION OF EQUIPMENT INTERLOCKING FUNCTIONS AND THE INTERFACE OF VARIOUS CONTRACTORS' WORK AND SHALL NOT BE MISTAKEN AS SHOP DRAWINGS FOR ACTUAL INSTALLATION.
- ALL TC PROVIDED COMPONENTS AND ALL TC CONTRACTOR INSTALLED WRING SHALL BE LABELED PER SPECIFICATIONS.
- ALL WRING AND SYSTEM CONTROL VOLTAGES SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATION AND THE ELECTRICAL SPECIFICATIONS.
- ALL CONTROL INTERLOCK WRING BETWEEN COMPONENTS SHALL BE INSTALLED WITHOUT INTERMEDIATE STOPS. WIRE SPLICING AT INTERMEDIATE TERMINAL STRIPS IS NOT ACCEPTABLE.
- ALL ELECTRICAL WRING AND RACEWAY SYSTEMS SHALL COMPLY WITH ELECTRICAL SPECIFICATION REQUIREMENTS. WHERE RACEWAY IS REQUIRED, TWO SEPARATE ELECTRICAL RACEWAY SYSTEMS SHALL BE PROVIDED: ONE FOR 120V WRING AND THE OTHER FOR 24V WRING.
- TC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER SUPPLIES REQUIRED FOR TC SYSTEM UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL PANEL SCHEDULES FOR SPARE CIRCUITS OR CIRCUITS DEDICATED TO TEMPERATURE CONTROLS. COORDINATE CIRCUIT USE WITH ELECTRICAL CONTRACTOR.
- TC CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL FIELD MOUNTED COMPONENTS.
- REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES. PROVIDE WALL MOUNTED DEVICE GUARDS WHERE INDICATED ON TC DETAILS OR AT SPECIFIC LOCATIONS INDICATED ON MECHANICAL FLOOR PLANS.
- TC CONTRACTOR SHALL PROVIDE AUXILIARY PANELS FOR REQUIRED PANEL MOUNTED EQUIPMENT SUCH AS RELAYS, TRANSDUCERS, CONTROL TRANSFORMERS, ETC. AUXILIARY PANELS SHALL BE LOCATED NEXT TO ASSOCIATED DDC PANEL. DEPENDING ON WIRE QUANTITY OR COMPLEXITY, PROVIDE CONDUITS BETWEEN PANELS OR WRING THROUGH WITH CONDUIT STUBS ABOVE ALL ASSOCIATED PANELS.
- REMOVELY MOUNTED FIELD DEVICES SUCH AS RELAYS, CONTROL TRANSFORMERS, ETC., SHALL BE HOUSED IN AN ENCLOSURE PROVIDED BY THE TC CONTRACTOR.
- CONTROL TRANSFORMERS WHEN REQUIRED SHALL BE SIZED FOR 150% OF ACTUAL LOAD.
- ALL CONTROL DAMPERS AND ASSOCIATED CONTROL ACTUATORS IDENTIFIED ON TC DRAWINGS SHALL BE PROVIDED BY TC CONTRACTOR UNLESS OTHERWISE NOTED. DAMPER SIZE AND LOCATIONS ARE INDICATED ON MECHANICAL FLOOR PLAN DRAWINGS.
- ALL CONTROL DAMPERS FURNISHED BY THE TC CONTRACTOR SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR.
- DAMPER ACTUATORS SHALL BE INSTALLED BY TC CONTRACTOR WHEN FURNISHED BY TC CONTRACTOR.
- TC CONTRACTOR SHALL FIELD MOUNT ALL REQUIRED "SHIPPED LOOSE" PACKAGED CONTROL COMPONENTS FURNISHED BY EQUIPMENT SUPPLIERS WHERE INDICATED. ALL REQUIRED 24V AND 120V FIELD WRING SHALL BE PROVIDED BY TC CONTRACTOR UNLESS NOTED OTHERWISE. TC CONTRACTOR SHALL COORDINATE SPECIFIC SYSTEM WRING REQUIREMENTS WITH PACKAGED EQUIPMENT SUPPLIERS.



### EF-1 & EF-2 CONTROL

TYPICAL EXCEPT WHERE NOTED

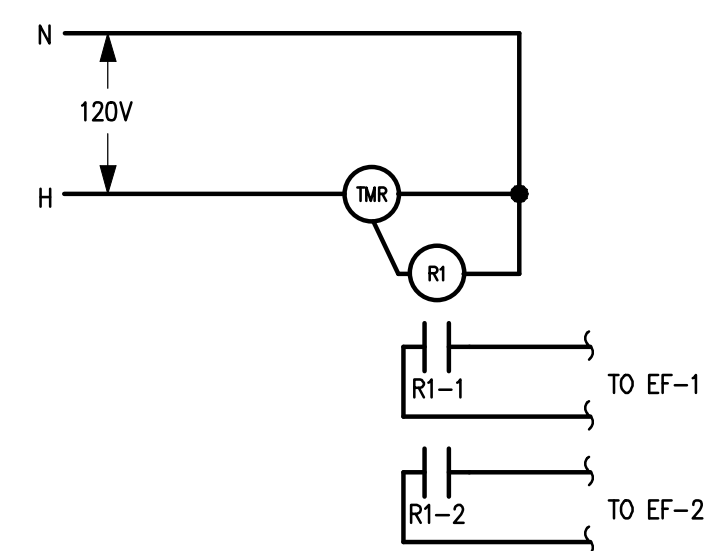
EF-1 SERVES BUILDING A TEAM LOCKER ROOM & WOMEN'S RESTROOMS  
EF-2 SERVES BUILDING A FOOD SERVICE AREA & MEN'S RESTROOMS

#### NOTES:

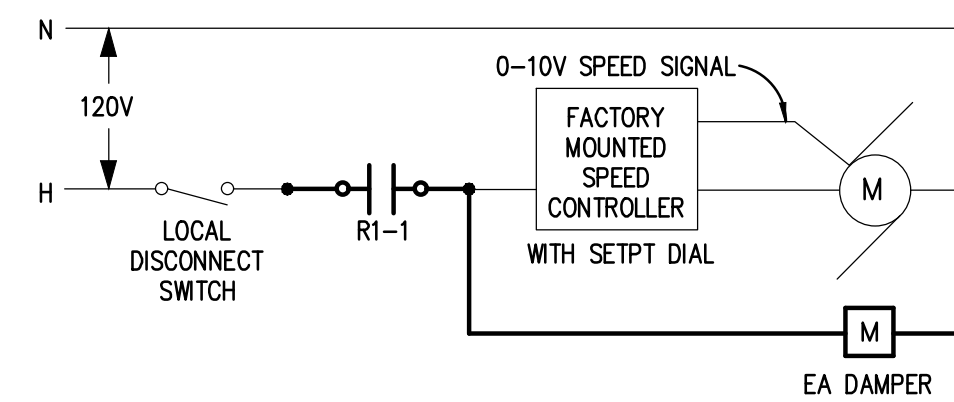
- REFER TO MECH FLOOR PLANS FOR LOCATIONS.
- CONTROL DAMPER FURNISHED BY TC CONTRACTOR.
- EXHAUST FAN SPEED SHALL BE MANUALLY SET VIA ON BOARD POTENTIOMETER DIAL DURING SYSTEM BALANCING.

#### SEQUENCE OF OPERATION:

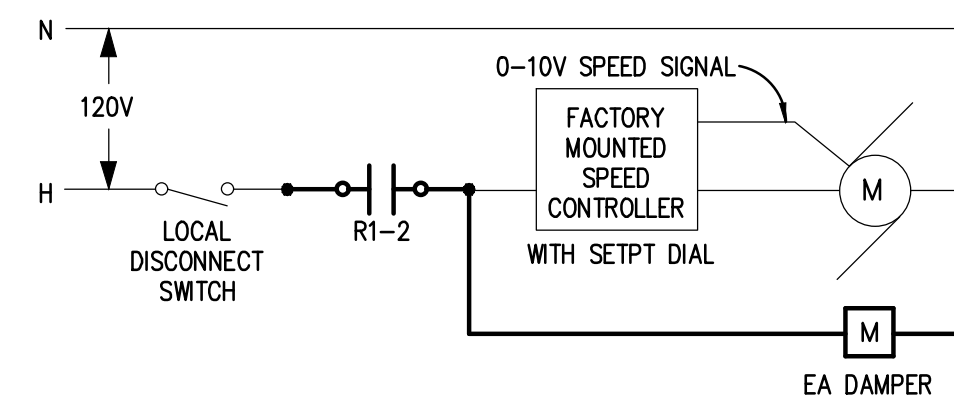
- EXHAUST FANS SHALL BE STARTED AND STOPPED BY LOCAL COUNTDOWN TIMER LOCALLY SELECTABLE FROM 1 TO 8 HOURS. INTERLOCK WRING SHALL OPEN DAMPERS.



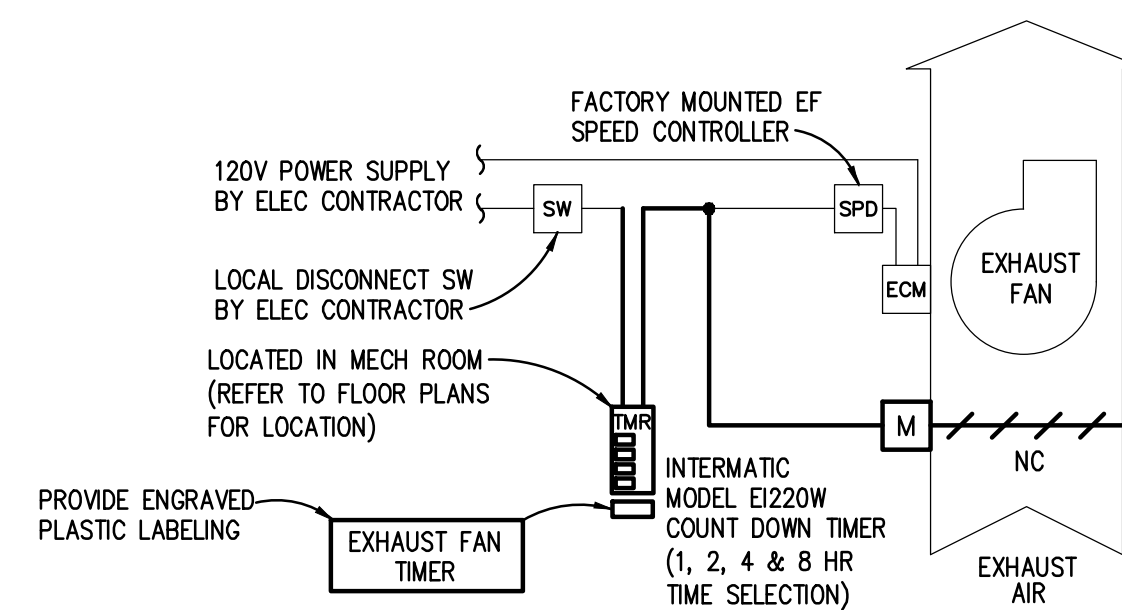
### DIGITAL COUNTDOWN TIMER WIRING



### EF-1 M/S WIRING



### EF-2 M/S WIRING



### EF-3 CONTROL

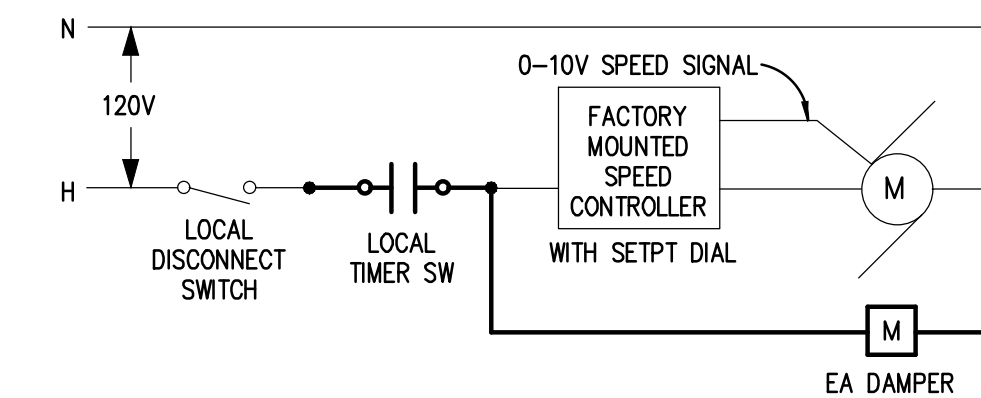
SERVES BUILDING B

#### NOTES:

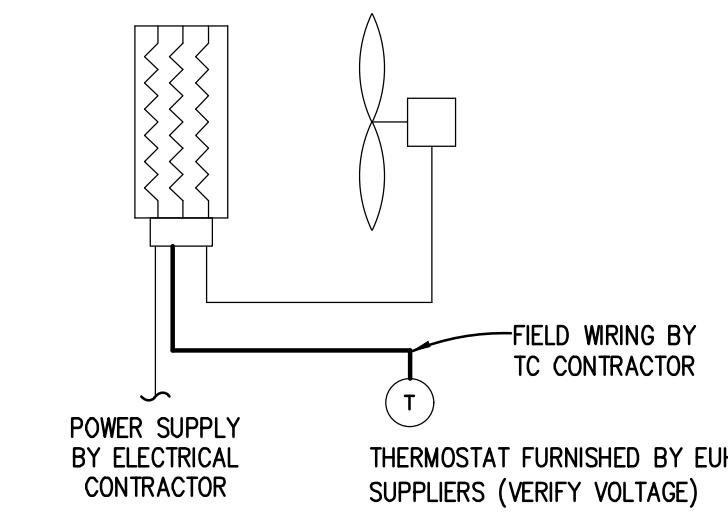
- REFER TO MECH FLOOR PLANS FOR LOCATIONS.
- CONTROL DAMPER FURNISHED BY TC CONTRACTOR.
- EXHAUST FAN SPEED SHALL BE MANUALLY SET VIA ON BOARD POTENTIOMETER DIAL DURING SYSTEM BALANCING.

#### SEQUENCE OF OPERATION:

- EXHAUST FAN SHALL BE STARTED AND STOPPED BY LOCAL COUNTDOWN TIMER LOCALLY SELECTABLE FROM 1 TO 8 HOURS. INTERLOCK WRING SHALL OPEN DAMPERS.



### EF-3 M/S WIRING



### ELECTRIC UH CONTROL

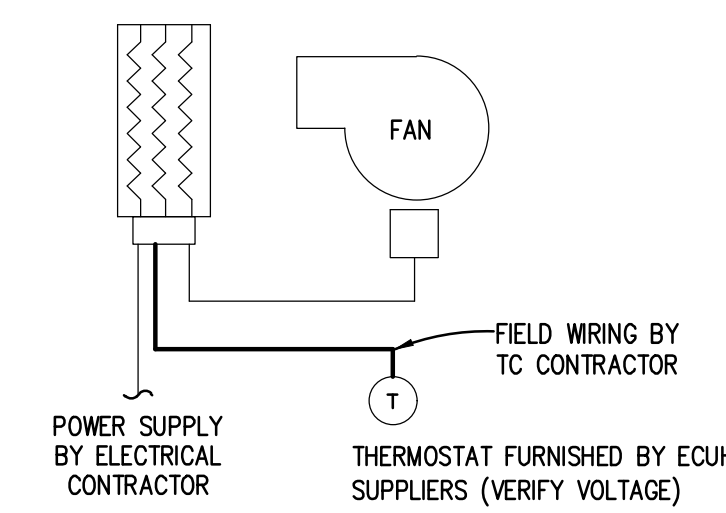
TYPICAL

#### NOTES:

REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF UNITS.

#### SEQUENCE OF OPERATION:

SPACE THERMOSTAT SHALL ENERGIZE UNIT HEATER CONTROL CIRCUIT TO MAINTAIN SPACE TEMPERATURE SETPOINT.



### ELECTRIC CUH CONTROL

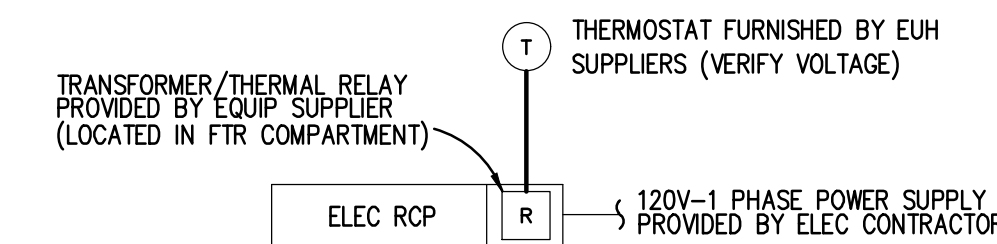
TYPICAL

#### NOTES:

REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF UNITS.

#### SEQUENCE OF OPERATION:

SPACE THERMOSTAT SHALL ENERGIZE CABINET UNIT HEATER CONTROL CIRCUIT TO MAINTAIN SPACE TEMPERATURE SETPOINT.



### ELEC RADIANT CEILING PANEL CONTROL

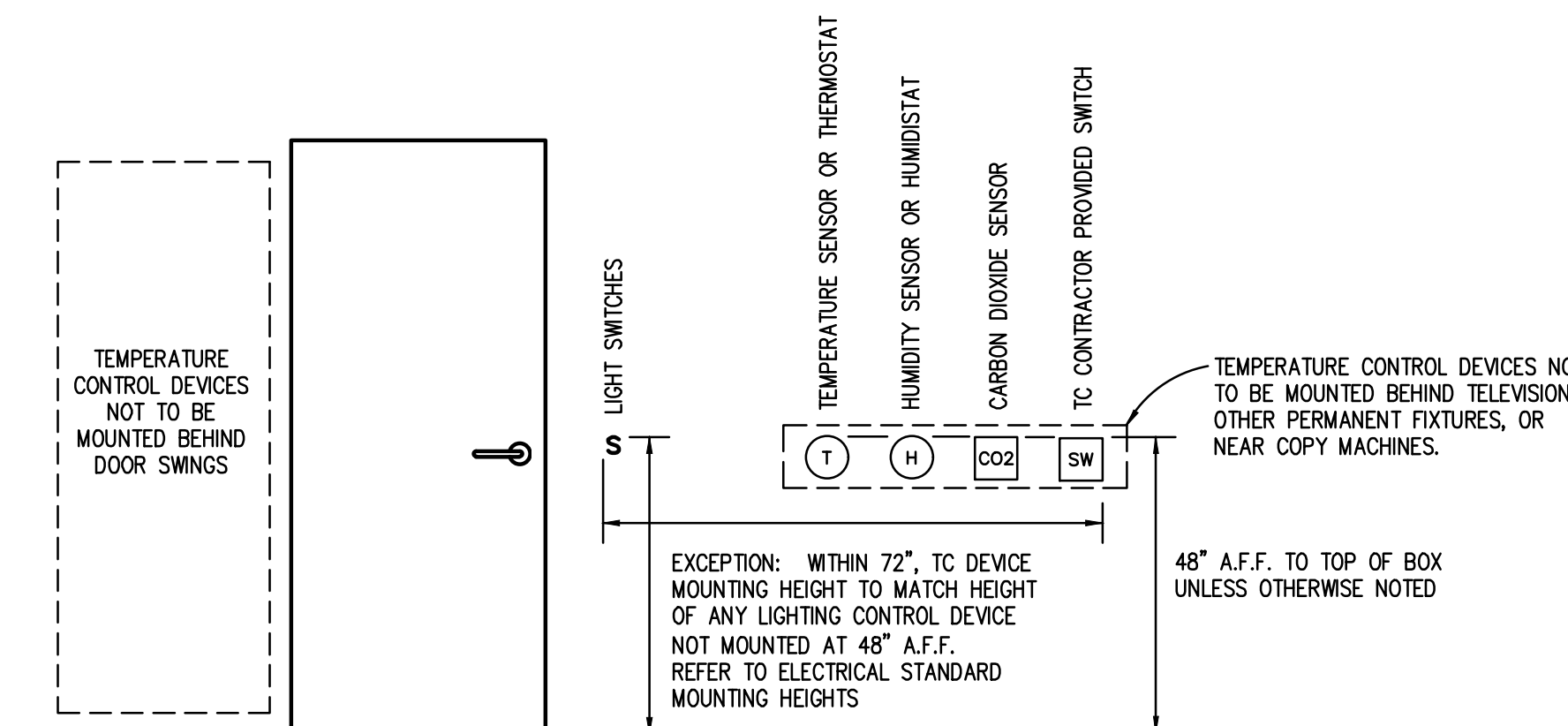
TYPICAL

#### NOTES:

- REFER TO FLOOR PLANS FOR LOCATION OF UNITS AND THERMOSTATS.
- COORDINATE TRANSFORMER/THERMAL RELAY DETAILS AND TERMINATIONS REQUIREMENTS WITH EQUIPMENT SUPPLIER.

#### SEQUENCE OF OPERATION:

- THERMOSTAT SHALL ENABLE/DISABLE RADIANT CEILING PANEL UNIT AS REQUIRED TO MAINTAIN SPACE TEMP SETPOINT OF 68°F (ADJUSTABLE).
- THERMOSTAT SHALL PROVIDE 2°F DEADBAND FOR CONTROL.



### TC DEVICE STANDARD MOUNTING HEIGHTS DETAIL

NO SCALE

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### TEMPERATURE CONTROLS, STANDARDS AND GENERAL NOTES



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

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INTERIOR LIGHTING CONTROL SCHEDULE														
PLAN REFERENCE	ROOM TYPE	LOCAL CONTROL		CONTROL ON / OFF	SENSOR TYPE	TURN ON LIGHTING TO %	BI-LEVEL CONTROL	DAYLIGHT			NO DETECTION FULL OFF (MIN)	EMERGENCY LIGHTING CIRCUIT CONTROL	HVAC CONTROL	NOTES
		SWITCH TYPE	SWITCH CONTROL					SIDE LIGHT	TOP LIGHT	MAINTAIN FC LEVEL				
A	ELECTRICAL/MECHANICAL ROOM	LINE VOLTAGE	ON-OFF	MANUAL ON / MANUAL OFF	N/A	FULL 100%	N/A	N/A	N/A	N/A	N/A	BATTERY	N/A	
B	FOOD PREPARATION AREA	LOW VOLTAGE	ON-OFF-DIM	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	CONTINUOUS DIM	N/A	N/A	N/A	20	BATTERY	YES	
C	LOCKER ROOM	LOW VOLTAGE	ON-OFF-DIM	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	CONTINUOUS DIM	N/A	N/A	N/A	20	BATTERY	YES	
D	LOCKER ROOM	LOW VOLTAGE	ON-OFF-DIM	MANUAL ON / MANUAL OFF	N/A	FULL 100%	CONTINUOUS DIM	N/A	N/A	N/A	N/A	BATTERY	N/A	
E	RESTROOM (ALL OTHER RESTROOMS)	LINE VOLTAGE	ON-OFF	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	N/A	N/A	N/A	N/A	20	BATTERY	YES	
F	STORAGE ROOM ( < 50 SQFT)	LINE VOLTAGE	ON-OFF	SENSOR ON / SENSOR OFF	ULTRASONIC	FULL 100%	N/A	N/A	N/A	N/A	20	BATTERY	N/A	
NOTE: 1. REFER TO PLANS FOR LOCATION OF LOCAL CONTROL. 2. REFER TO PLANS FOR PRIMARY AND SECONDARY DAYLIGHT ZONES. 3. CONTRACTOR SHALL PROVIDE FLOOR PLAN INDICATING SENSOR AND EQUIPMENT LOCATIONS OF CHOSEN CONTROL SYSTEM. 4. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE CHARACTERISTICS. 5. LIGHTING SENSOR SHALL HAVE CONTACT FOR HVAC CONTROL WHEN A "YES" SELECTION IS MADE IN THE HVAC CONTROL COLUMN. 6. REFER TO TEMPERATURE CONTROL DRAWINGS AND DIAGRAMS FOR ADDITIONAL SENSOR REQUIREMENTS. 7. PROVIDE WIRING CONTROL DIAGRAM FOR APPLICABLE CONTROL SYSTEM(S).												N/A = NOT APPLICABLE		

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LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER(S)	WATTAGE	VOLTAGE	LIGHT CHARACTERISTICS	CONTROLS	REMARKS		
L1	8"x48" VANDAL RESISTANT SURFACE MOUNT FIXTURE: DIE CAST ALUMINUM HOUSING, UV STABILIZED IMPACT RESISTANT POLYCARBONATE LENS FULLY GASKETED WITH ALLEN PIN FASTENERS. FIXTURE SHALL BE WHITE. NOTE: PROVIDE (3) ALLEN PIN SCREW DRIVERS AND TURN OVER TO OWNER.	1. KENALL MLHA SERIES 2. NEW STAR VICTORY SERIES 3. FAIL SAFE HVL SERIES	45	MULTI	LED 4000K 80CRI 5,000 LUMENS	0-10V 10% DIMMING	FOR FIXTURES INDICATED AS EMERGENCY PROVIDE 1,400 LUMENS OUTPUT EMERGENCY COLD WEATHER BATTERY PACK.		
L2	48" CHAIN HUNG STRIP LIGHT FIXTURE: STEEL HOUSING PAINTED AFTER FABRICATION. FROSTED LENS WITH WIRE GUARD. FIXTURE SHALL BE WHITE.	1. LITHONIA CLX SERIES 2. COLUMBIA LQL SERIES 3. METALUX FP SERIES	37	MULTI	LED 4000K 80CRI 5,000 LUMENS	0-10V 10% DIMMING	FOR FIXTURES INDICATED AS EMERGENCY PROVIDE 1,400 LUMENS OUTPUT EMERGENCY COLD WEATHER BATTERY PACK.		
L3	2'x4' RECESSED FLAT PANEL: ALUMINUM BEZEL WITH STEEL BACKING AND WHITE FROST ACRYLIC DIFFUSER.	1. LITHONIA CPX SERIES 2. METALUX CGT SERIES 3. COLUMBIA CBT SERIES	39	MULTI	LED 4000K 80CRI 4,000 LUMENS	0-10 VOLT 10% DIMMING	FOR FIXTURES INDICATED AS EMERGENCY ON PLAN PROVIDE 1,400 LUMEN OUTPUT EMERGENCY WEATHER BATTERY PACK.		
EXIT SIGN	WHITE DIE CAST ALUMINUM FACE, RED LETTERS, HIGH OUTPUT LED DIFFUSE LIGHT PANEL, NICKEL-CADMIUM BATTERY BACK UP. SINGLE OR DOUBLE STENCIL WITH DIRECTIONAL ARROWS AS INDICATED ON PLAN. PROVIDE MOUNTING AS INDICATED ON PLAN.	1. LITHONIA SIGNATURE SERIES 2. DUAL-LITE SEMPRA SERIES 3. SURELITE CX SERIES	2	MULTI	HIGH OUTPUT LED LIGHT PANEL				
OL1	ARCHITECTURAL WALL PACK FIXTURE: TYPE IV FORWARD THROW DISTRIBUTION, WEATHER RESISTANT ALUMINUM HOUSING, IP65 RATED. COLOR SHALL BE BRONZE.	1. LITHONIA WST SERIES 2. MCGRAW EDISON IST SERIES 3. SPALDING TRP SERIES	30	MULTI	LED 4000K 70 CRI 3,000 LUMENS	INTEGRAL PHOTOCELL	FOR FIXTURES INDICATED AS EMERGENCY PROVIDE 1,400 LUMENS OUTPUT EMERGENCY COLD WEATHER BATTERY PACK.		
OL2	6" DIAMETER RECESSED VANDAL RESISTANT DOWN LIGHT: LENSED AND GASKETED. WET LOCATION LISTED. TEMPERED PRISMATIC GLASS LENS. WIDE DISTRIBUTION. VENTILATED DIE CAST ALUMINUM HEAT SINK SELF FLANGED REFLECTOR WITH MATTE WHITE FINISH.	1. GOTHAM EVO VR SERIES 2. FAIL-SAFE FLDB6 SERIES 3. MAXILUME HL6-IP-VR SERIES	19.7	MULTI	LED 4000K 80CRI 2,000 LUMENS		FOR FIXTURES INDICATED AS EMERGENCY ON PLAN PROVIDE 1,400 LUMENS OUTPUT REMOTE COLD WEATHER BATTERY PACK.		
GENERAL NOTES: 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES. 2. WATTAGE LISTED IS FROM THE BASIS OF DESIGN MANUFACTURER. 3. FINISH TO BE APPROVED BY ARCHITECT. 4. ALL LUMINAIRES TO BE AS SPECIFIED OR EQUAL APPROVED BY PBA.									

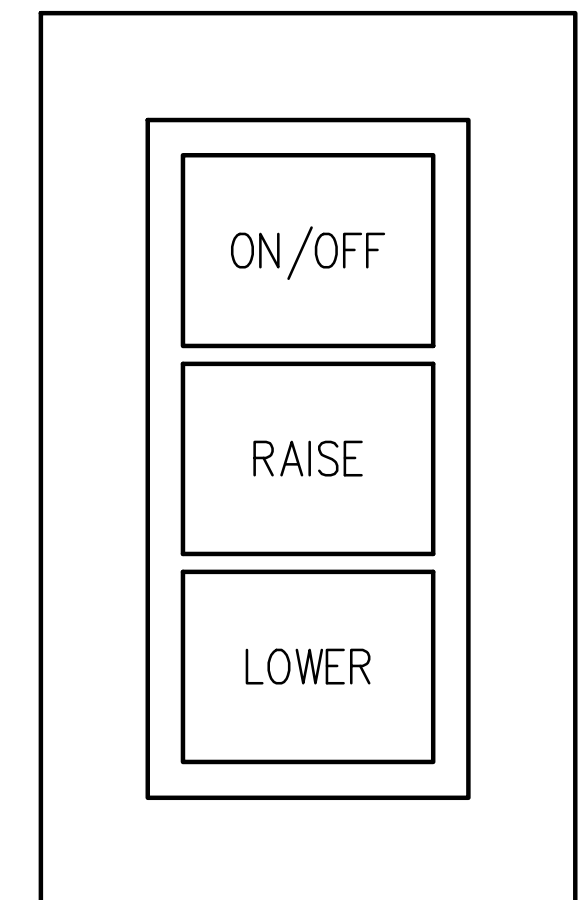
**DTE LIGHTING INCENTIVES PROGRAM**

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MEETING ALL REQUIREMENTS FOR THE OWNER TO PARTICIPATE IN THE CURRENT DTE ENERGY SAVINGS PROGRAM. THE FOLLOWING ITEMS WILL BE REQUIRED BUT NOT LIMITED TO, FOR PARTICIPATE IN THIS PROGRAM:

- ON BEHALF OF THE OWNER, PROVIDE ALL REQUIRED INFORMATION FOR THE RESERVATION APPLICATION. REFER TO DTE ENERGY PROGRAM APPLICATION AT [www.dteenergy.com](http://www.dteenergy.com)
- CONTRACTOR BUSINESS INFORMATION.
- LIGHTING INCENTIVES WORKSHEET.
- TYPE OF FIXTURES REMOVED, WATTAGE AND LAMP SIZE.
- EASY TO READ ITEMIZED INVOICES WITH PART NUMBERS OF ALL LED LIGHT FIXTURES, AND CONTROLS.
- MANUFACTURERS CUT SHEETS WITH HIGHLIGHTED FIGURES, TYPES OF LED FIXTURES, DRIVERS, AND CONTROLS, ETC. AS REQUIRED BY DTE.
- MEASURES ARE COMPLETELY INSTALLED WITH 90 DAYS OF PROJECT APPROVAL.

IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO CONTACT DTE'S ENERGY SAVINGS TEAM OR ASSIGNED REPRESENTATIVE IF A PROJECT IS DELAYED, OR SUBSTANTIALLY CHANGED.

THE ELECTRICAL CONTRACTOR SHALL WORK WITH AND COORDINATE WITH THE OWNER FOR THE RESERVATION PROCESS PRIOR TO SITE WORK BEING CONDUCTED AND POST REVIEW INSPECTION FOR REMOVAL AND INSTALLATION OF ALL EQUIPMENT RELATED TO THE INCENTIVE PROGRAM.



**LC TYPICAL DIMMING LIGHTING CONTROL STATION**  
NO SCALE

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Bidding and Permits: 20 March 2023

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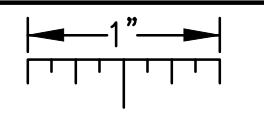
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Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

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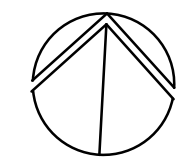
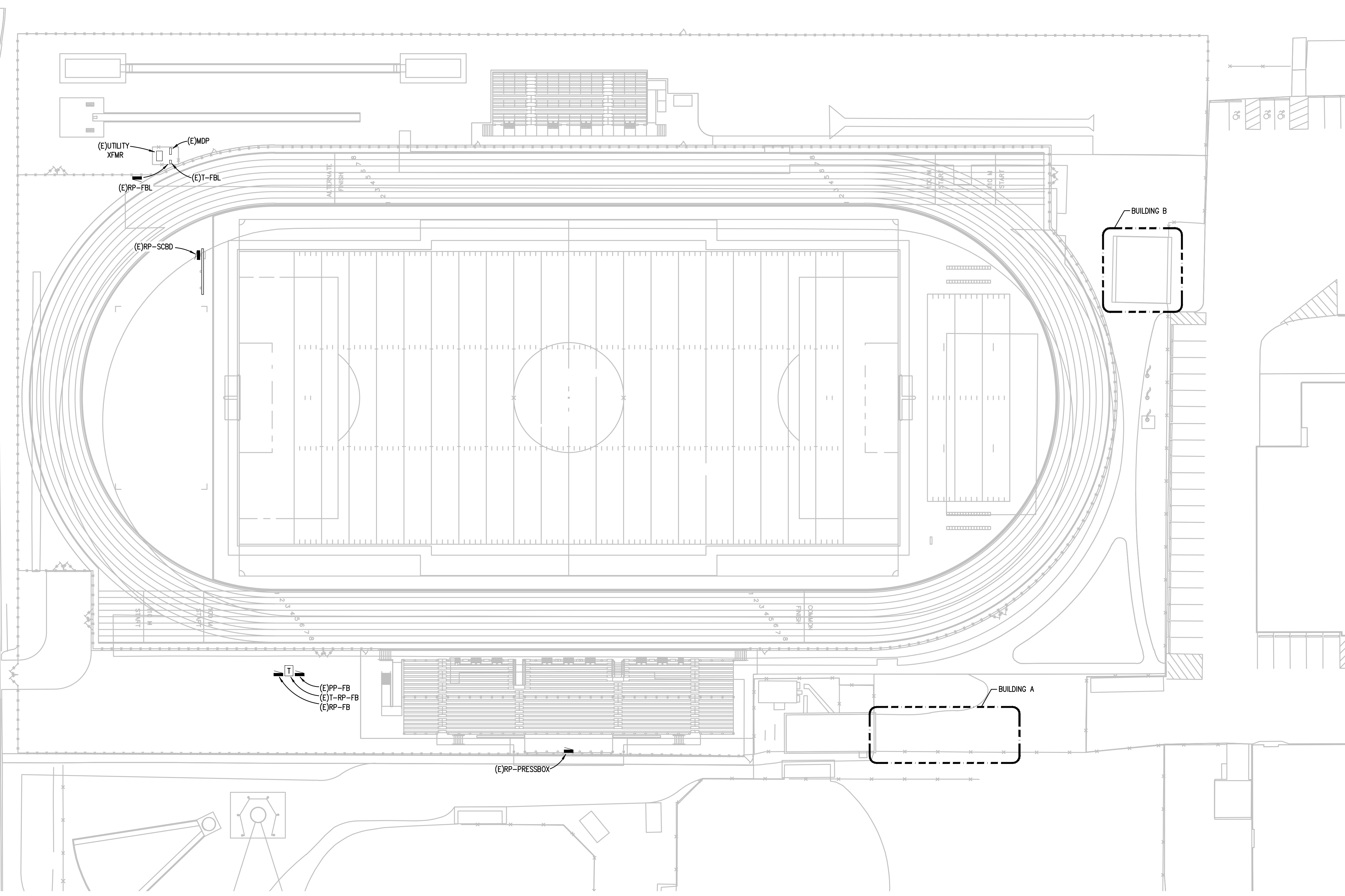
THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



SIMONE ST.  
(60' WIDE)

KINLOCH ST.

AWRENCE DRIVE  
(60' WIDE)



**ELECTRICAL SITE PLAN**  
SCALE: 1" = 30'

**SITE PLAN GENERAL NOTES:**

1. THESE NOTES ARE GENERIC GUIDELINES ONLY. ELECTRICAL CONTRACTOR'S PERSONNEL ON SITE SHALL BE THOROUGHLY FAMILIAR WITH THE PUBLISHED SPECIFICATIONS FOR EXACT DESCRIPTIONS OF SCOPE, METHODS, AND MATERIAL.
2. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
3. CONDUCT A SURVEY TO IDENTIFY ALL UNDERGROUND UTILITIES. CALL 811 PRIOR TO EXCAVATION.
4. UTILITIES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE EXACT LOCATION OF ALL EXISTING UTILITIES, AND ROUTING OF ALL NEW UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
5. DEWATER TRENCHES PRIOR TO INSTALLATION OF CONDUITS. PROVIDE WATER TIGHT FITTINGS ON ALL UNDERGROUND CONDUITS.
6. COORDINATE DEMOLITION WORK, AND ELECTRICAL AND TELEPHONE SERVICES TO THE SITE, WITH THE RESPECTIVE LOCAL UTILITY COMPANY REPRESENTATIVES PRIOR TO COMMENCEMENT OF WORK. INCLUDE ALL ASSOCIATED COST/FEE'S BY THE UTILITY COMPANIES IN THE BID PRICE.
7. INSTALL UNDERGROUND CONDUITS 42" BELOW FINISHED GRADE, MINIMUM, UNLESS NOTED OTHERWISE.
8. COORDINATE SERVICE SHUT-DOWNS WITH ALL TRADES INVOLVED ON SITE AND OBTAIN WRITTEN AUTHORIZATION FROM OWNER 72 HOURS PRIOR TO ANY ELECTRICAL AND/OR TELEPHONE SHUT-DOWN.
9. REMOVE ALL DE-ENERGIZED CONDUCTORS FROM SITE AT COMPLETION OF THE PROJECT.
10. SPARE CONDUITS SHALL INCLUDE PULL STRING AND SHALL BE TERMINATED WITH A CAP.
11. EXCAVATE THE ENTIRE LENGTH OF TRENCH TO PROPERLY SET DUCT ELEVATIONS.

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Call before you dig.**

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PBA Project No: 2022.0428

ELECTRICAL SITE PLAN



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

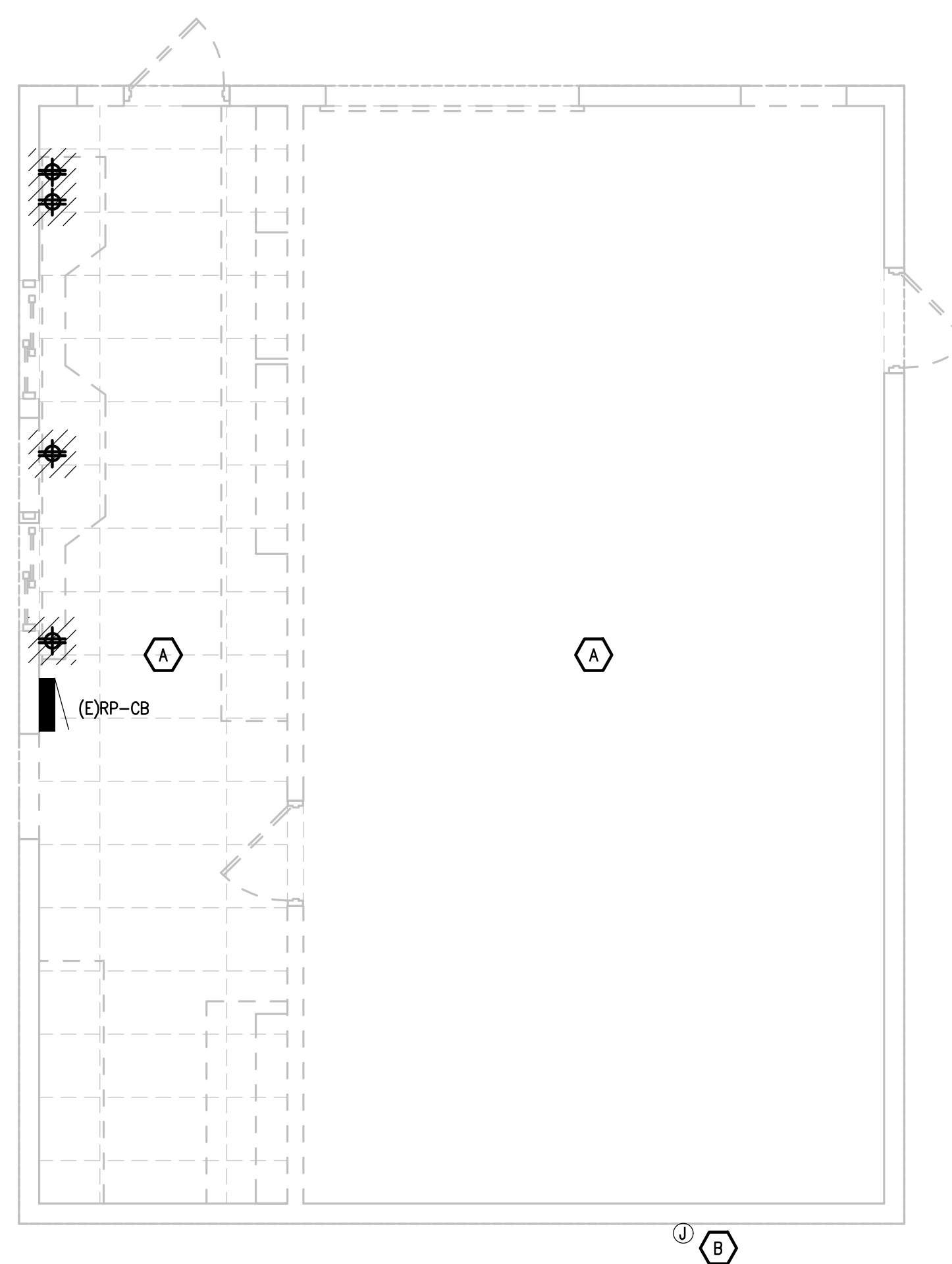
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**ELECTRICAL DEMOLITION  
GENERAL NOTES:**

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
3. REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
8. DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TOLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

**DEMOLITION KEY NOTES:**

- A. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR THIS AREA. IN ALL WALLS AND CEILINGS INDICATED FOR DEMOLITION, REMOVE ALL POWER, DATA AND LIGHTING DEVICES AND ASSOCIATED CONTROLS. MAINTAIN LIGHTING BRANCH CIRCUIT FOR REUSE. POWER AND DATA DEVICES LOCATED ON WALLS NOT BE DEMOLISHED ARE TO REMAIN UNLESS OTHERWISE NOTED. (WALLS TO BE DEMOLISHED ARE INDICATED AS DASHED.)
- B. VERIFY EXISTING FEED. REPLACE EXISTING CONDUIT WITH BACK BOX WITH BLANK COVER PLATE AT NEW WALL FINISH. EXTEND CONDUIT AND WIRE AS REQUIRED. REMOVE IF NOT IN SERVICE.



**BUILDING B ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/4" = 1' - 0"

Bidding and Permits: 20 March 2023

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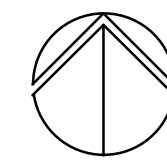
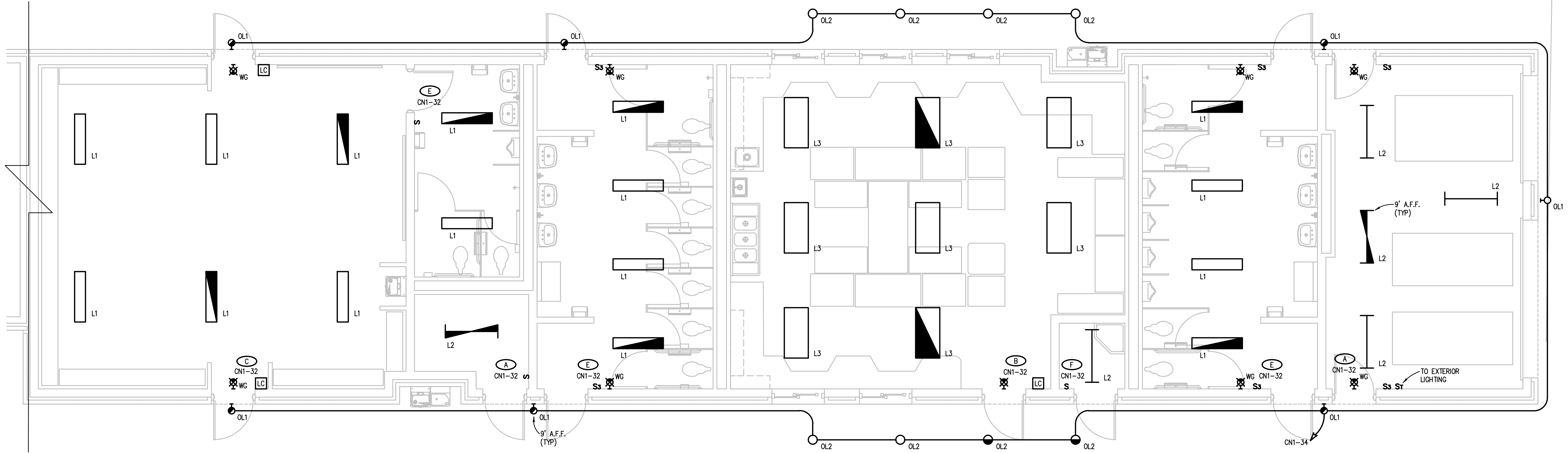
**BUILDING B ELECTRICAL DEMOLITION PLAN**



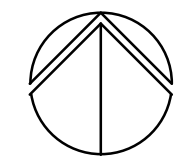
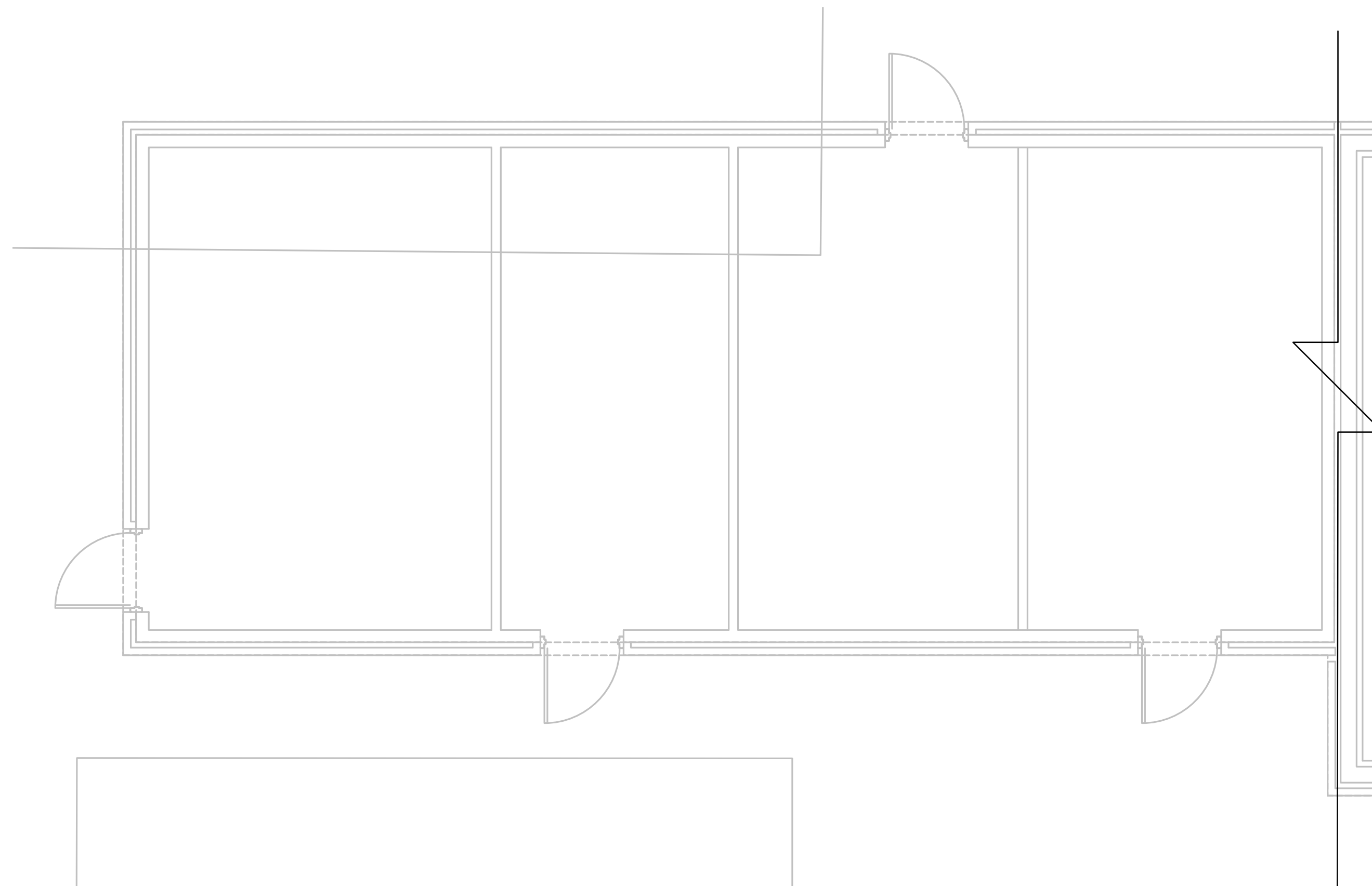
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

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**BUILDING A LIGHTING PLAN - AREA 1**  
SCALE: 1/4" = 1' - 0"



**BUILDING A LIGHTING PLAN - AREA 2**  
SCALE: 1/4" = 1' - 0"

**ELECTRICAL GENERAL NOTES:**

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
9. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
10. WHERE EXISTING CIRCUITING IS BEING REUSED, PROVIDE GROUND WIRE, AS REQUIRED, PER NEC.

**CONSTRUCTION KEY NOTES:**

1. CIRCUIT NEW LIGHTING TO MAINTAINED LIGHTING BRANCH CIRCUIT. MODIFY SWITCH/LEG AS REQUIRED FOR WORK INDICATED. EXTEND CONDUIT AND WIRE AS REQUIRED.

Bidding and Permits: 20 March 2023

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**BUILDING A LIGHTING PLAN**  
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Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

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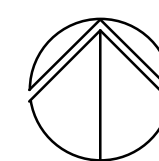
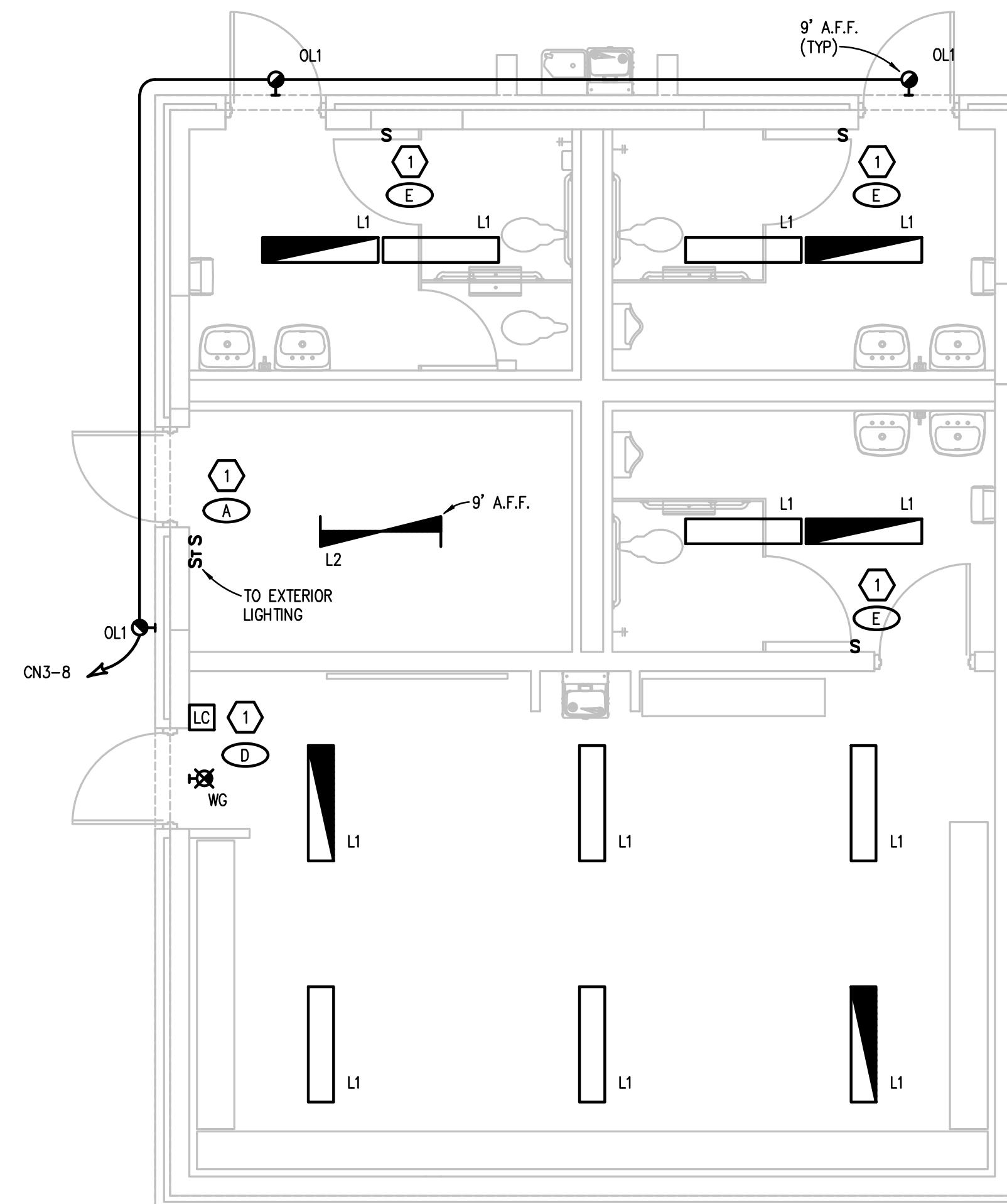
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8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
9. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
10. WHERE EXISTING CIRCUITING IS BEING REUSED, PROVIDE GROUND WIRE, AS REQUIRED, PER NEC.

### CONSTRUCTION KEY NOTES:

1. CIRCUIT NEW LIGHTING TO MAINTAINED LIGHTING BRANCH CIRCUIT. MODIFY SWITCHLEG AS REQUIRED FOR WORK INDICATED. EXTEND CONDUIT AND WIRE AS REQUIRED.



**BUILDING B LIGHTING PLAN**  
SCALE: 1/4" = 1' - 0"

Bidding and Permits: 20 March 2023

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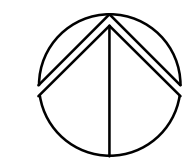
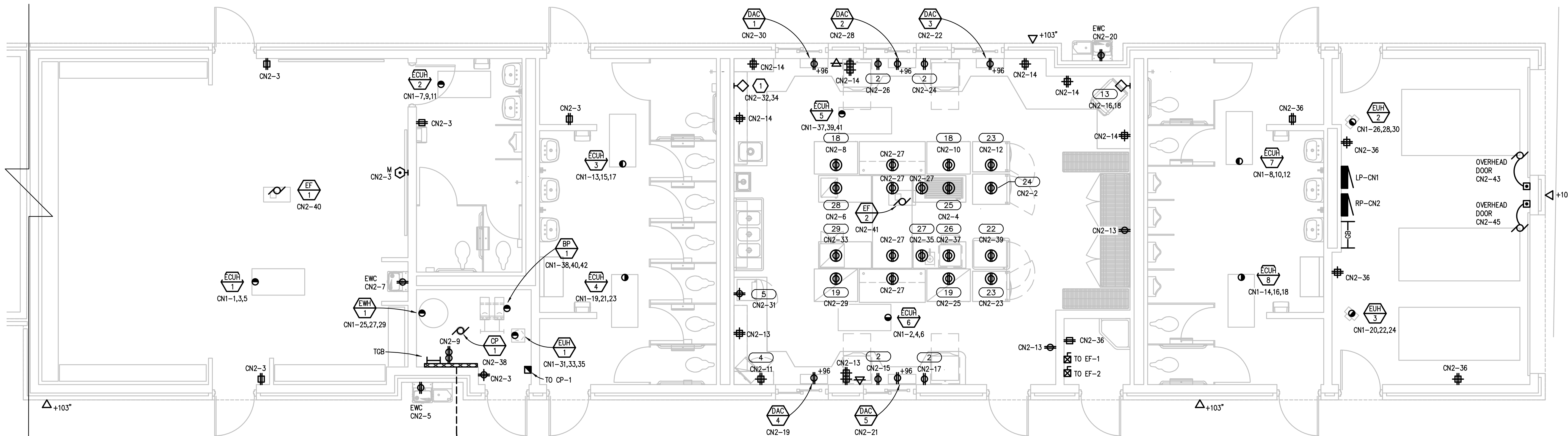
### BUILDING B LIGHTING PLAN



Crestwood School District  
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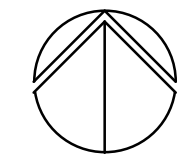
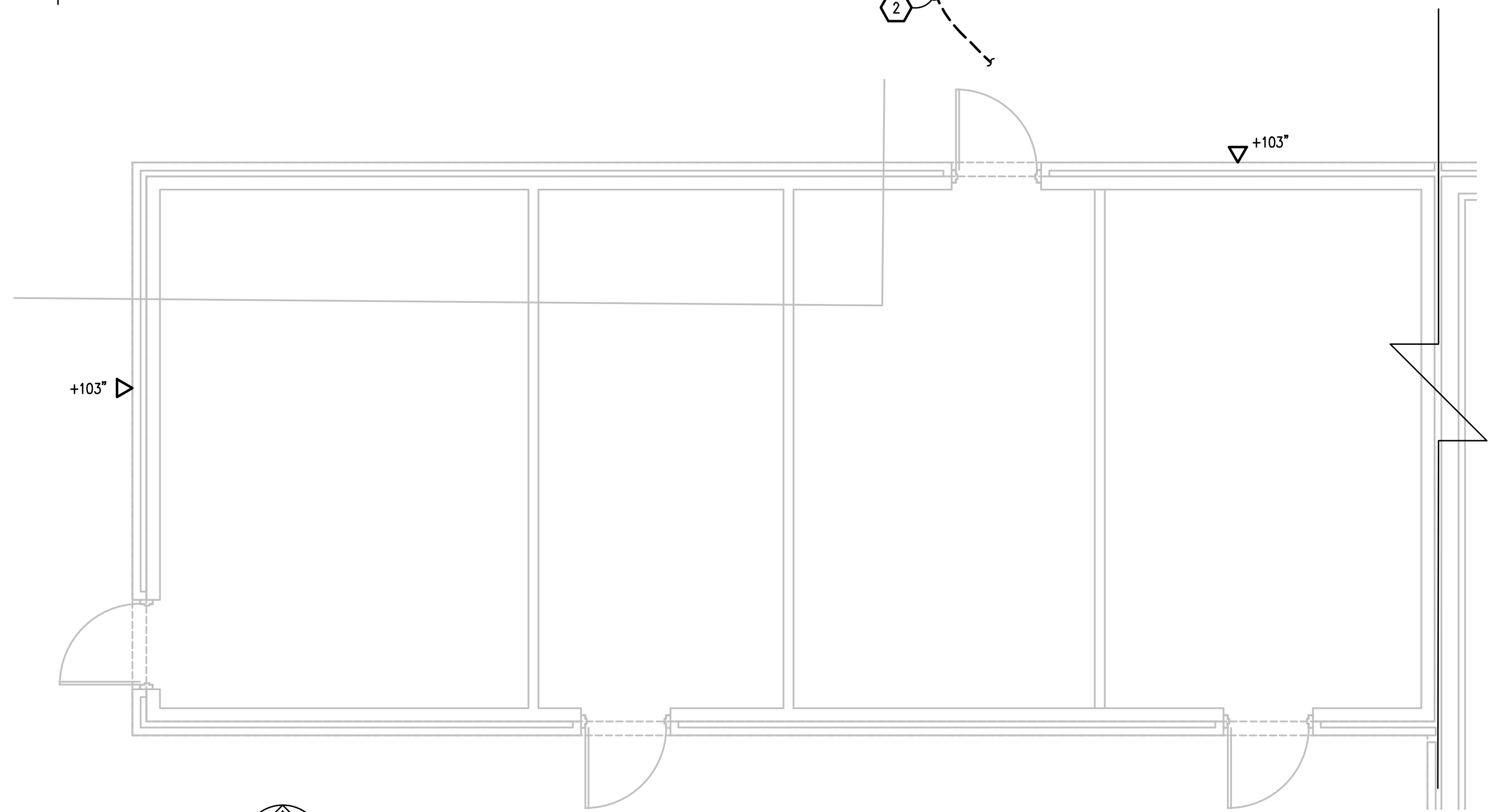
**BUILDING A POWER AND AUXILIARY SYSTEMS PLAN - AREA 1**  
SCALE: 1/4" = 1' - 0"

**ELECTRICAL GENERAL NOTES:**

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- WHERE EXISTING CIRCUITING IS BEING REUSED, PROVIDE GROUND WIRE, AS REQUIRED, PER NEC.

**CONSTRUCTION KEY NOTES:**

- COORDINATE NEMA CONFIGURATION WITH FSEC.
- 2" CONDUIT TO HIGH SCHOOL MDF. COORDINATE ROUTING WITH TECHNOLOGY CONTRACTOR.



**BUILDING A POWER AND AUXILIARY SYSTEMS PLAN - AREA 2**  
SCALE: 1/4" = 1' - 0"

**FOOD SERVICE EQUIPMENT SCHEDULE**

Item No	Qty	Equipment Category	Equipment Remarks	Hot Water Size (in)	Hot Water AF (in)	Cold Water Size (in)	Cold Water AF (in)	Drain Size (in)	Drain AF (in)	Drain Size (in)	Drain AF (in)	Gas Size (in)	Gas Use (MBTU/H)	Gas AF (in)	Plumbing Remarks	Volts	Phase	KW	HP	Amps	Electrical AF (in)	Direct	Electrical Remarks	
1	1	SERVING COUNTER "A"														120	1	0.64		5.3	24	X		
2	4	UNDERCOUNTER MOBILE HEATED DRAWERS														120	1		2.0	15.0 CIR.	50	X	EXISTING - VERIFY	
3		LOT WALL SHELVES "A"														120	1	1.8		15.0 CIR.	50	X		
4	1	MICROWAVE OVEN	EXISTING			1/2	14	1/2	50	2.0(G1)	16	(2)2.0*												
5	1	HOT BEVERAGE POWDER MIX DISPENSER				1/2	14	1/2	14	1.5	16											X	VERIFY	
6	1	THREE COMPARTMENT SINK				1/2	14	1/2	14													X	* TO AIR GAP WASTE	
7		LOT WALL SHELVES "B"																						
8	1	HAND SINK				1/2	14	1/2	14	1.5	16													VERIFY
9	1	SERVING COUNTER "B"				1/2	14	1/2	14													X	* TO AIR GAP WASTE	
10		LOT WALL SHELVES "C"																						
11		UNASSIGNED NUMBER																						
12		UNASSIGNED NUMBER																						
13	1	SPEED OVEN	FUTURE													208/240	1	3.5		30.0 CIR.	50	X		
14	2	OPEN SHELVING																						
15	1	MOBILE WORK TABLE "A"																						
16	2	MOBILE WORK TABLE "B"																						
17	4	MOBILE WORK TABLE "C"																						
18	2	COLD BEVERAGE DISPLAY "A"														120	1		.5	6.3	DFC	X		
19	2	COLD BEVERAGE DISPLAY "B"	EXISTING													120	1		.5	6.3	DFC	X	EXISTING - VERIFY	
20		UNASSIGNED NUMBER																						
21		UNASSIGNED NUMBER																						
22	1	MOBILE HOT HOLDING CABINET														120	1	1.5		12.5	DFC	X		
23	2	SECURE REFRIGERATOR														120	1	.25	3.8	DFC	X			
24	1	SECURE FREEZER														120	1	.5	6.8	DFC	X			
25	1	HOT DOC ROLLER GRILL														120	1	1.32		11.0	DFC	X		
26	1	NACHO BIN														120	1	1.08		9.0	DFC	X		
27	1	NACHO CHEESE PUMP														120	1	0.4		3.3	DFC	X		
28	1	PRETZEL DISPLAY	EXISTING													120	1	1.5			DFC	X	EXISTING - VERIFY	
29	1	POPCORN MACHINE	EXISTING													120	1	1.6		13.7	DFC	X	EXISTING - VERIFY	
30	2	SECURE SHELVING UNIT																					(DFC = DOWN FROM CEILING)	

**FOOD SERVICE GENERAL NOTES:**

- LOCATIONS, DIMENSIONS, UTILITY REQUIREMENTS, INTERCONNECTIONS, AND NEMA CONFIGURATIONS OF CORD AND PLUG ASSEMBLIES, ETC. ARE BASED ON BASIS OF DESIGN MANUFACTURER IN THE SPECIFICATIONS. COORDINATE FINAL LOCATIONS AND DEVIATIONS FROM BASIS OF DESIGN WITH FOOD SERVICE EQUIPMENT CONTRACTOR (FSEC).
- PROVIDE GROUND-FAULT-CIRCUIT-INTERRUPTER (GFCI) FOR PERSONNEL PROTECTION, PER NEC, FOR ALL SINGLE-PHASE RECEPTACLES 150V TO GROUND OR LESS AND 50A OR LESS, AND FOR ALL THREE-PHASE RECEPTACLES 150V TO GROUND OR LESS AND 100A OR LESS. PROVIDE GFCI CIRCUIT BREAKER(S) OR REMOTE DEAD FRONT GFCI DEVICE(S), IN READILY ACCESSIBLE LOCATIONS, FOR ANY RECEPTACLE THAT CANNOT BE ACCESSED WITHOUT MOVING EQUIPMENT.

Bidding and Permits: 20 March 2023



**BUILDING A POWER AND AUXILIARY SYSTEMS PLAN**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

E3.10

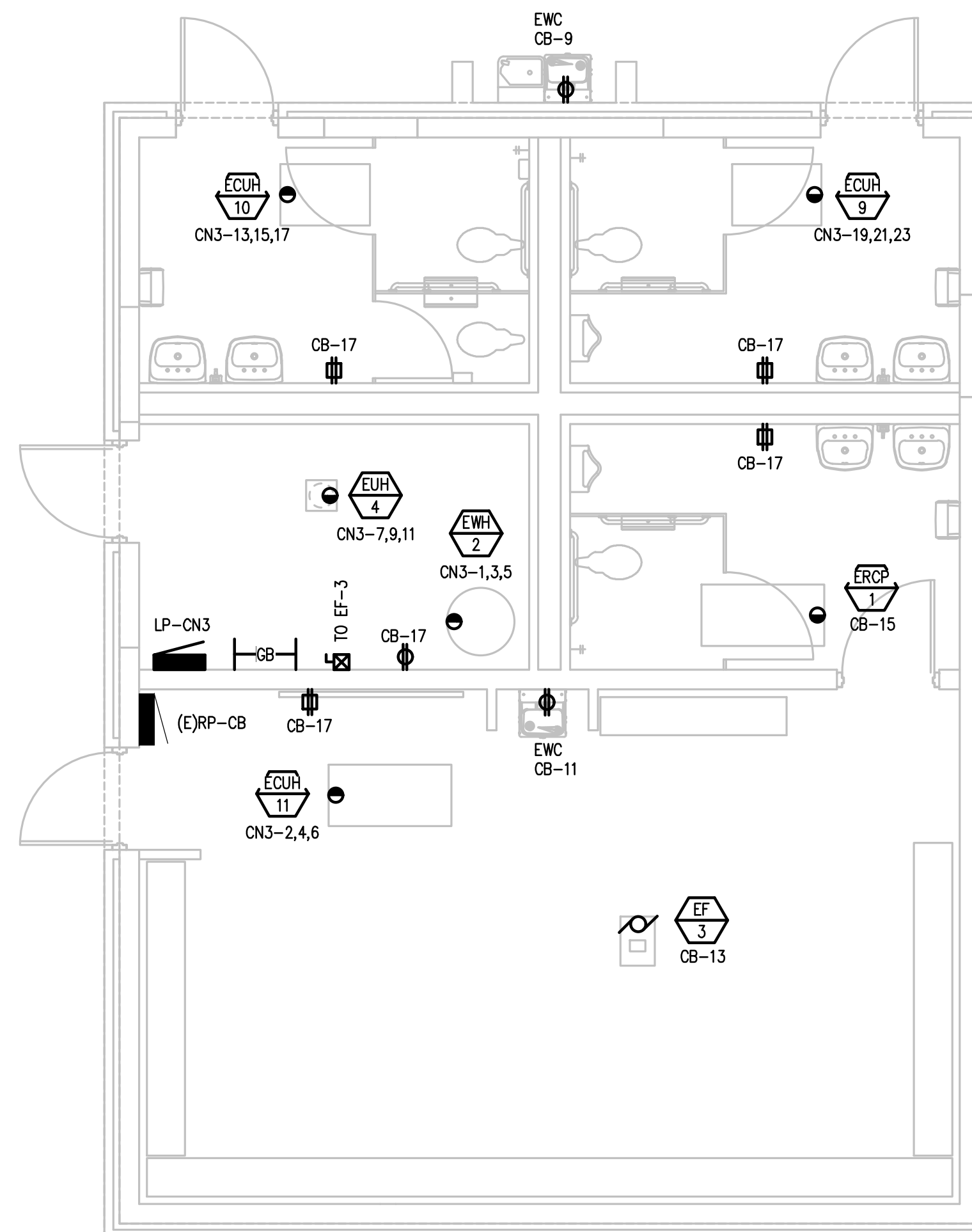
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### ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
9. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
10. WHERE EXISTING CIRCUITING IS BEING REUSED. PROVIDE GROUND WIRE, AS REQUIRED, PER NEC.

### CONSTRUCTION KEY NOTES:

1. COORDINATE NEMA CONFIGURATION WITH FSEC.
2. 2" CONDUIT TO HIGH SCHOOL MDF. COORDINATE ROUTING WITH TECHNOLOGY CONTRACTOR.



### BUILDING B POWER AND AUXILIARY SYSTEMS PLAN SCALE: 1/4" = 1' - 0"

Bidding and Permits: 20 March 2023

### BUILDING B POWER AND AUXILIARY SYSTEMS PLAN



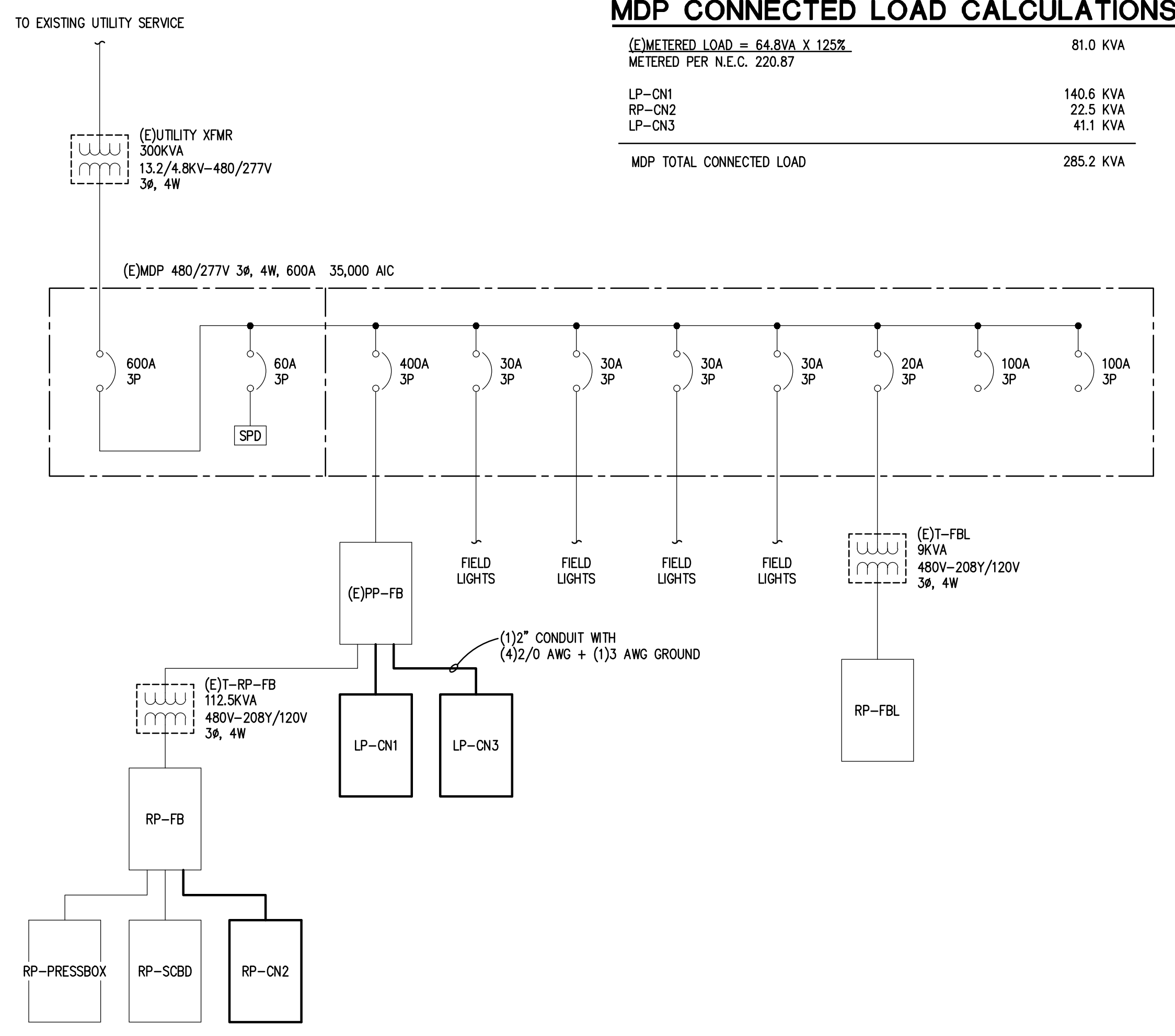
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

E3.11

**Peter Basso Associates Inc.**  
CONSULTING ENGINEERS  
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PBA Project No: 2022.0428

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**MDP CONNECTED LOAD CALCULATIONS**

(E)METERED LOAD = 64.8VA X 125% METERED PER N.E.C. 220.87	81.0 KVA
LP-CN1	140.6 KVA
RP-CN2	22.5 KVA
LP-CN3	41.1 KVA
<b>MDP TOTAL CONNECTED LOAD</b>	<b>285.2 KVA</b>

**DIAGRAM GENERAL NOTES:**

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
3. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "TRANSFORMER CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
4. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
5. BASIS OF DESIGN IS SQUARE D DISTRIBUTION EQUIPMENT. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT FROM OTHER APPROVED MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LAYOUT AND CLEARANCE REQUIREMENTS IN ALL SPACES CONTAINING ELECTRICAL EQUIPMENT AND PROVIDE EQUIPMENT MEETING THE SPECIFICATIONS AND ACHIEVING CODE REQUIRED CLEARANCES WITHIN THE SPACE PROVIDED.

**ONE LINE DIAGRAM NEW WORK**  
NO SCALE

Bidding and Permits: 20 March 2023

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PBA Project No: 2022.0428



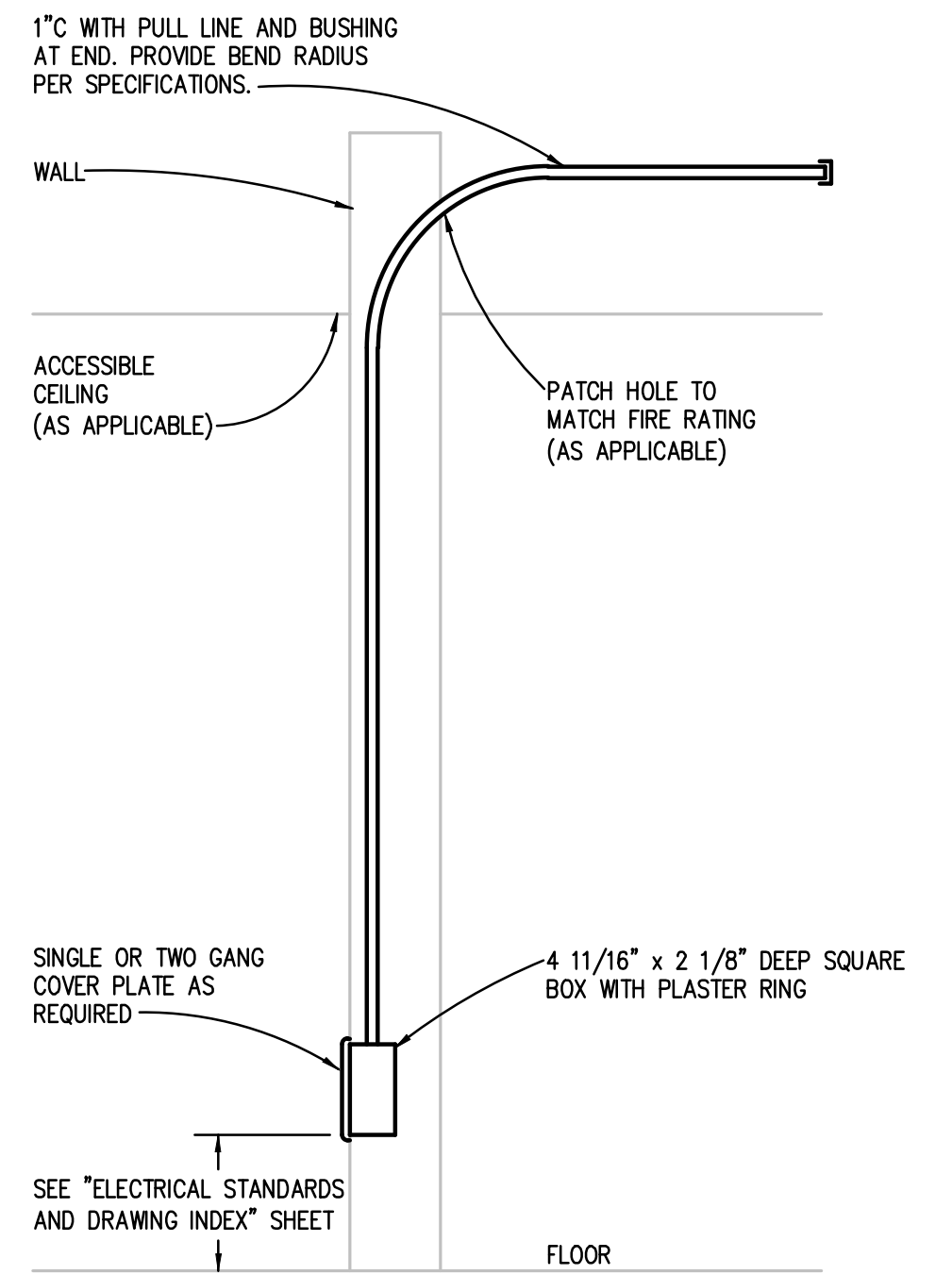
Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

E5.10

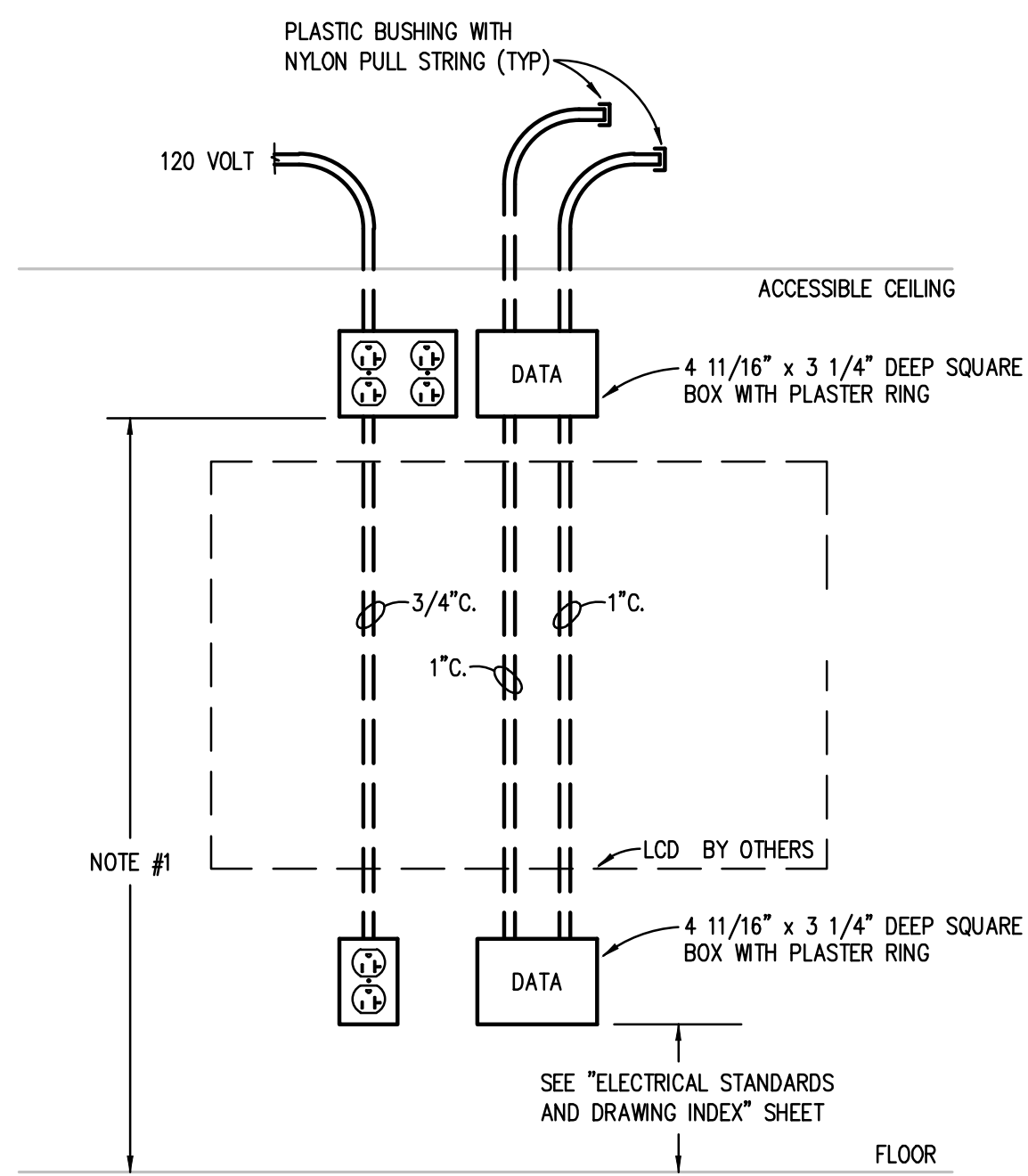






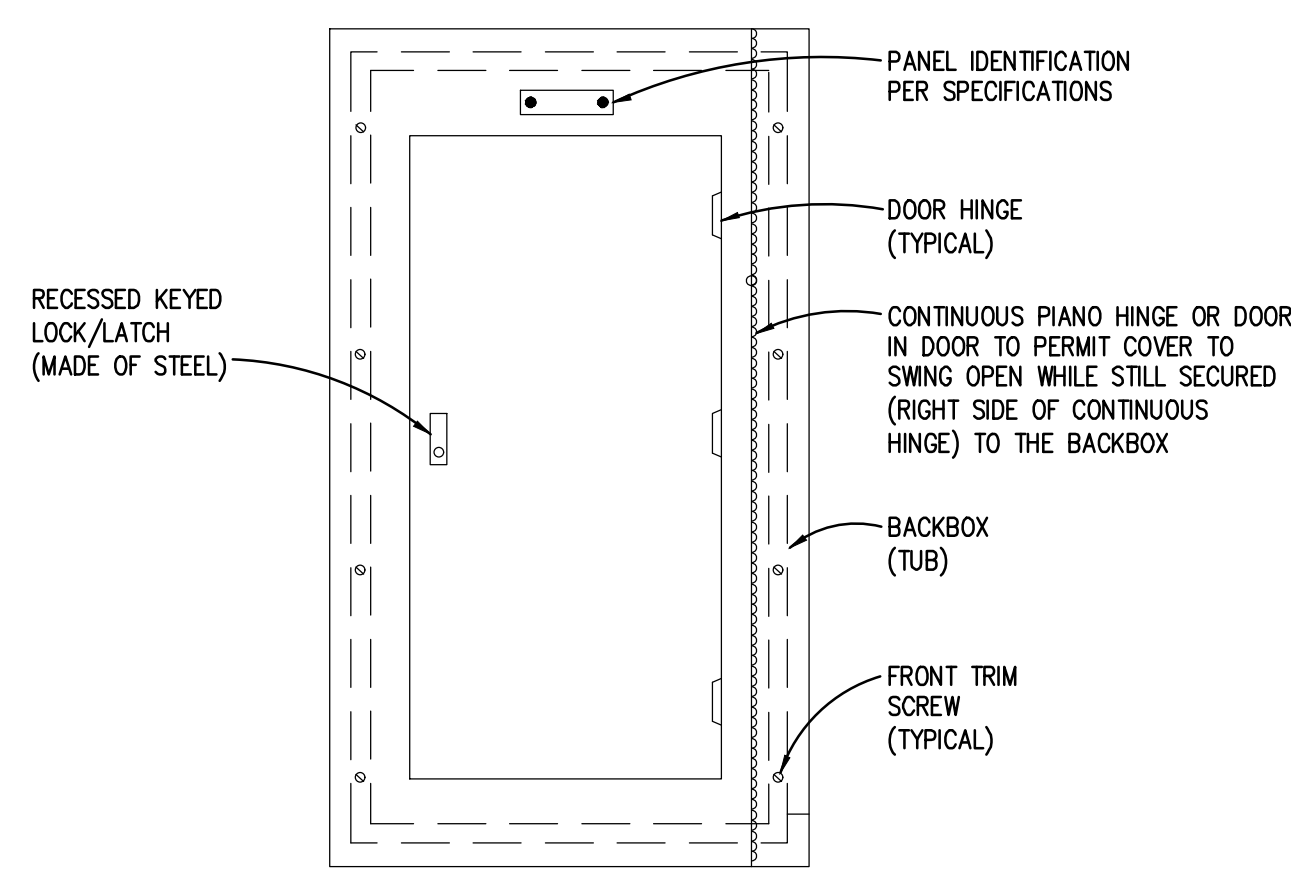
**TELECOMMUNICATION OUTLET DETAIL**  
NO SCALE

NOTES:  
1. IF CEILING IN ROOM IS NOT ACCESSIBLE, ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING IN DIRECTION OF AND WITH PATHWAY OR ACCESS TO TELECOMMUNICATION ROOM.

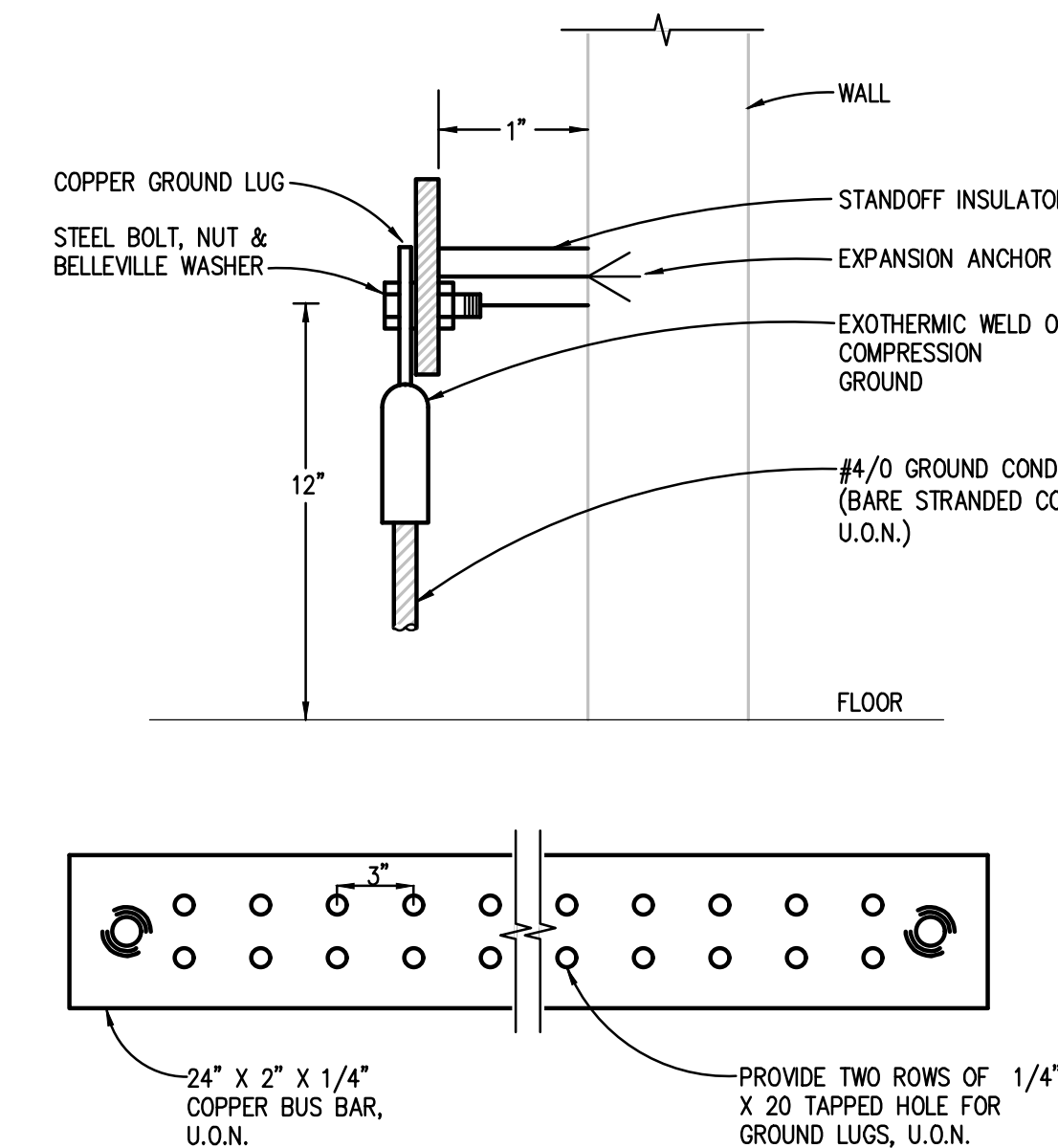


**RECESSED MONITOR WORKSTATION DETAIL**  
NO SCALE

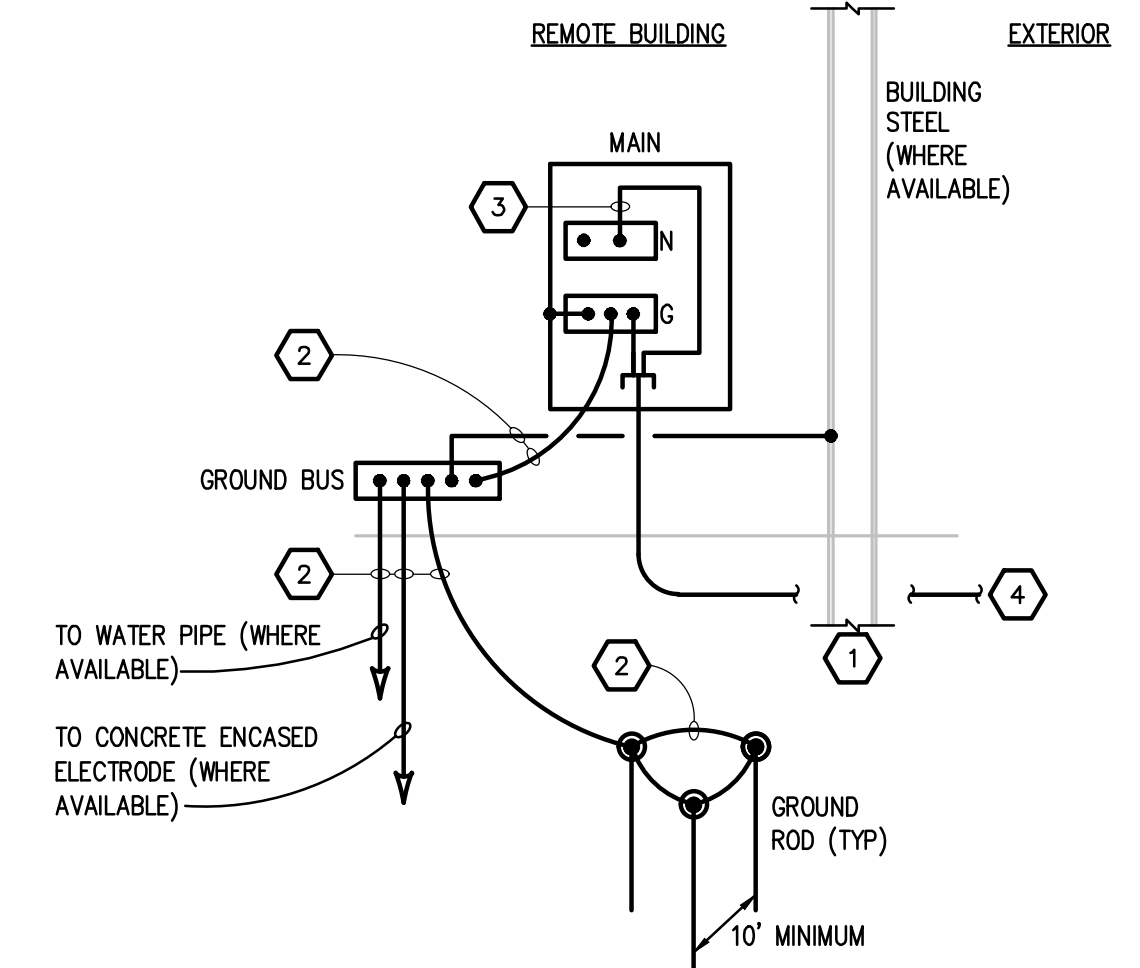
NOTES:  
1. COORDINATE FINAL LOCATION OF RECESSED POWER/AV DEVICES WITH OWNER TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.  
2. AV DEVICES AND COVER PLATES SHALL BE PROVIDED BY TECHNOLOGY CONTRACTOR.  
3. ALL BLANK COVER PLATES SHALL BE STAINLESS STEEL.  
4. RECEPTACLES SHALL BE GFCI TYPE.



**PANELBOARD FRONT COVER DETAIL**  
NO SCALE

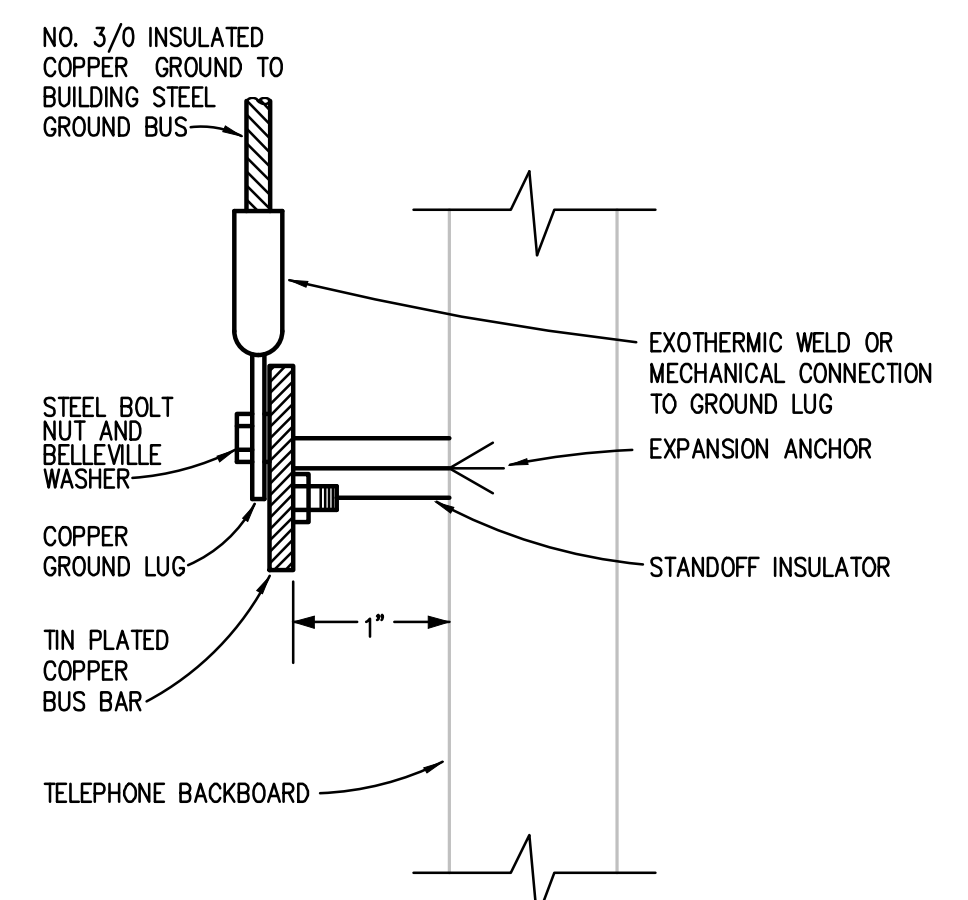


**ELECTRICAL GROUND BUS DETAIL**  
NO SCALE



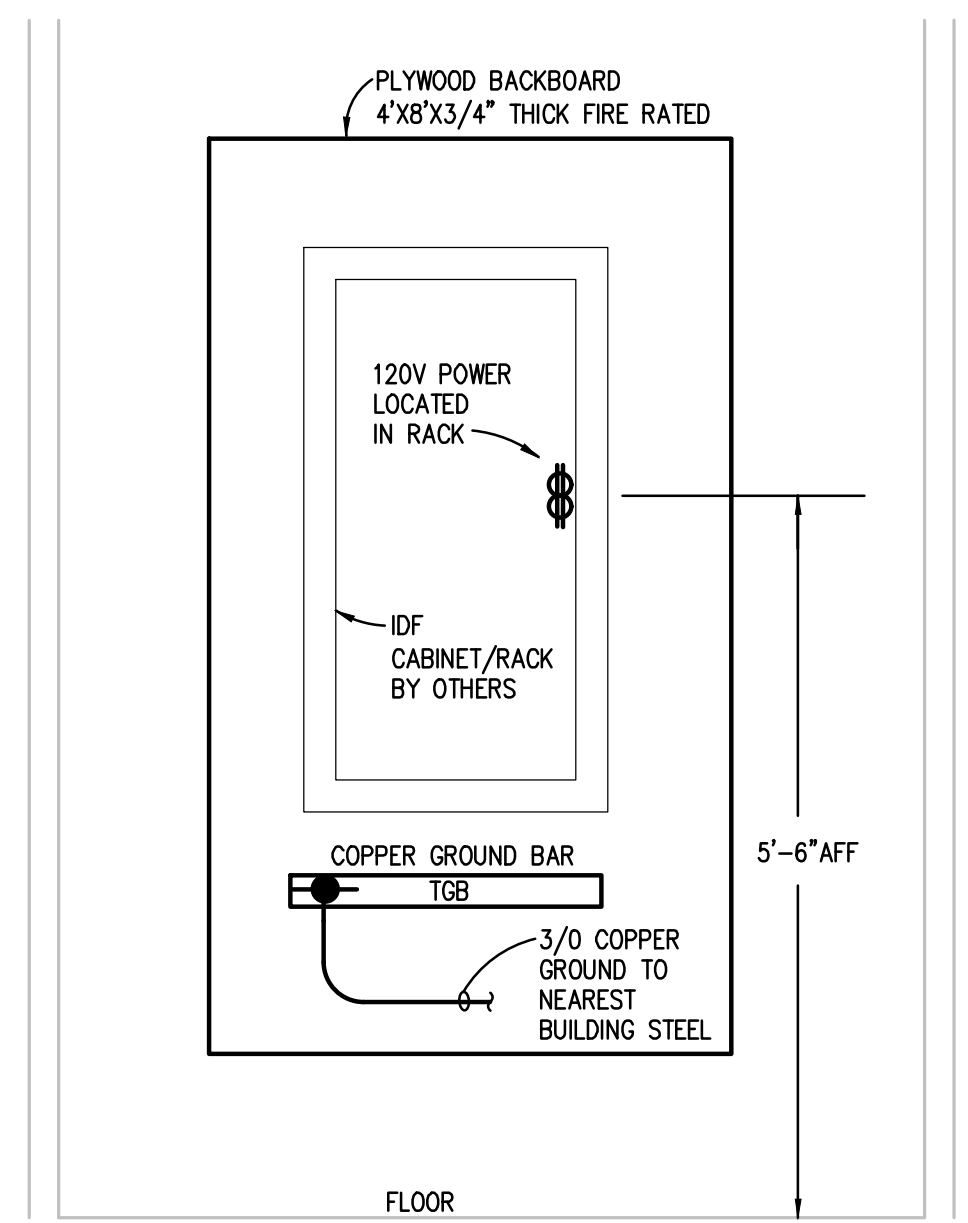
**REMOTE BUILDING GROUNDING**  
NO SCALE

KEYED NOTES:  
1. METAL IN-GROUND SUPPORT STRUCTURE IN DIRECT CONTACT WITH EARTH VERTICALLY FOR A MINIMUM OF 10FT, WHERE AVAILABLE.  
2. GROUNDING ELECTRODE CONDUCTOR, #4/0 COPPER.  
3. GROUNDED CONDUCTOR (NEUTRAL), SEE ONE LINE DIAGRAM.  
4. PHASE CONDUCTORS, GROUNDED CONDUCTOR (NEUTRAL), AND EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT TO MAIN BUILDING. SEE ONE LINE DIAGRAM.



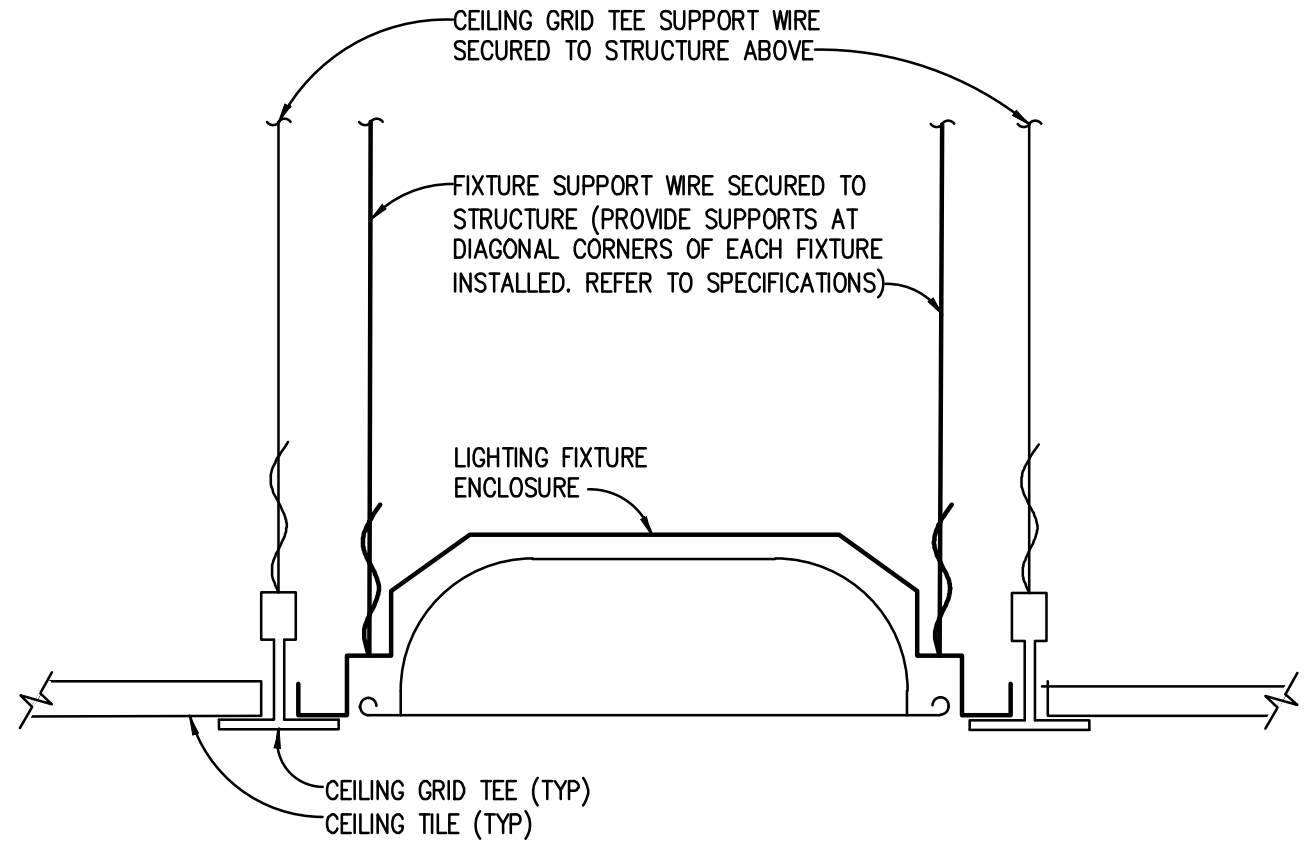
**TGB GROUND BUS DETAIL**  
NO SCALE

NOTE: MOUNT TO BOTTOM OF TELEPHONE BACKBOARD, 24" AFF.

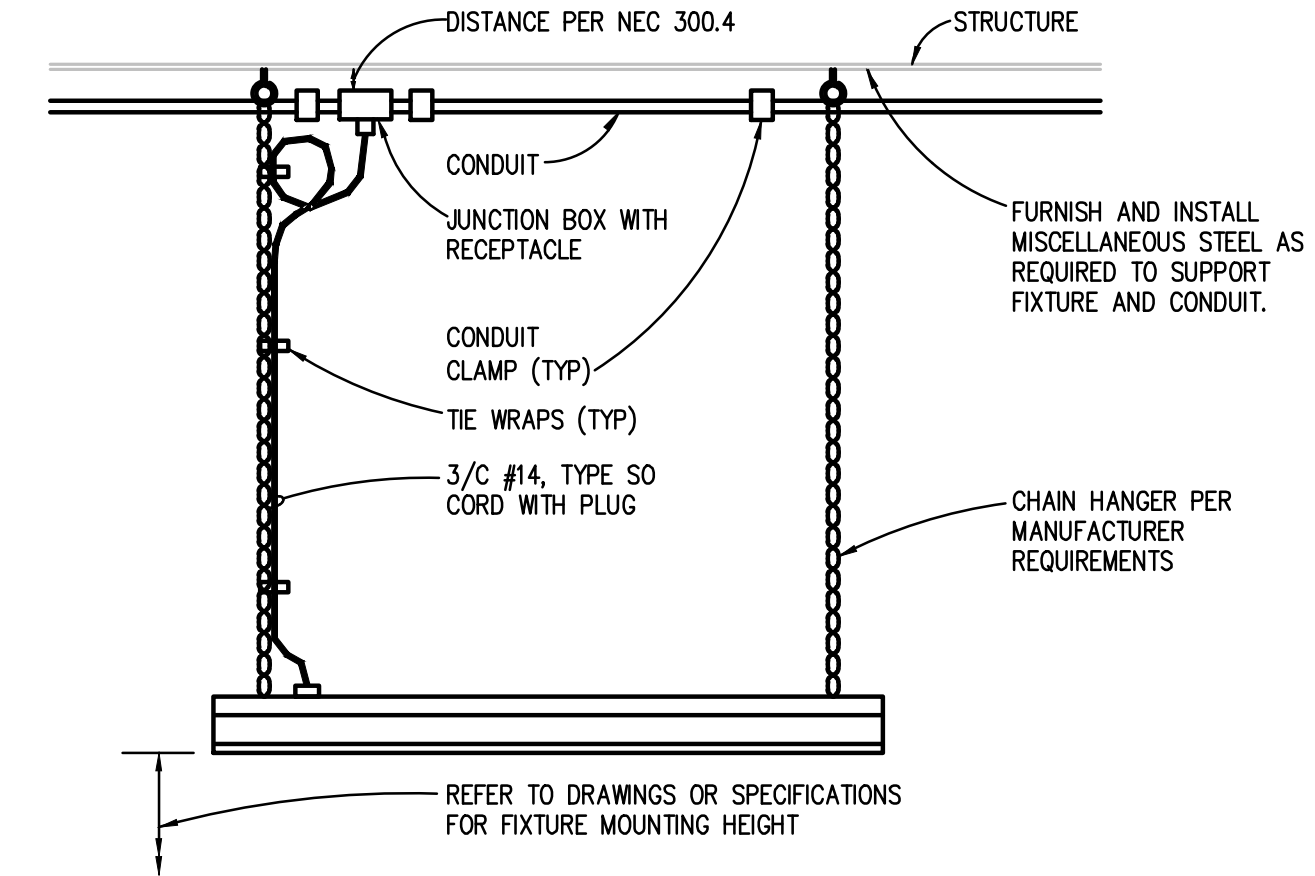


**IDF RACK DETAIL**  
NO SCALE

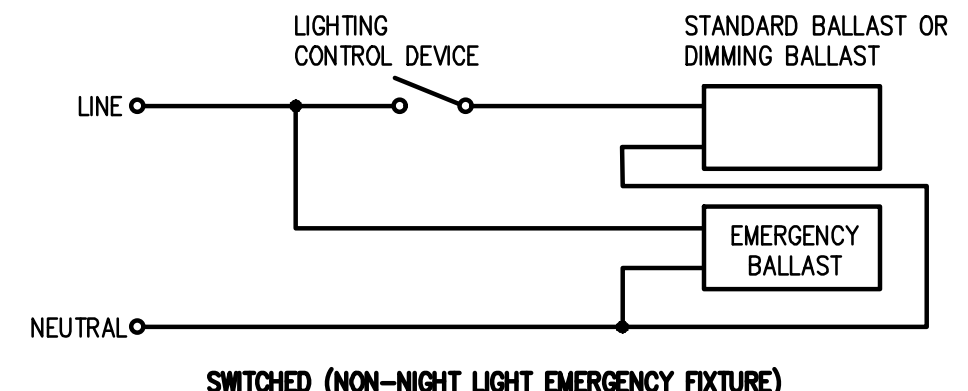
NOTE: COORDINATE EXACT LOCATION OF PLYWOOD BACKBOARD WITH OWNERS TECHNOLOGY REPRESENTATIVE PRIOR TO ROUGH-IN.



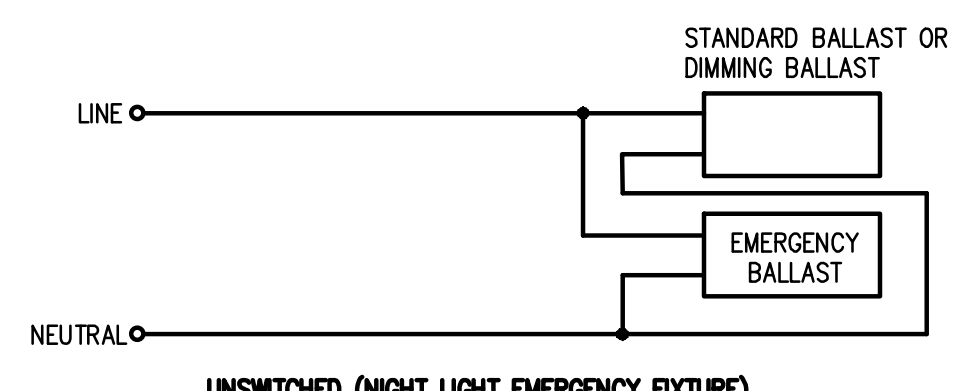
**RECESSED LIGHTING FIXTURE INSTALLATION DETAIL**  
NO SCALE



**TYPICAL MOUNTING DETAIL FOR CHAIN HUNG LIGHTING FIXTURES**  
NO SCALE



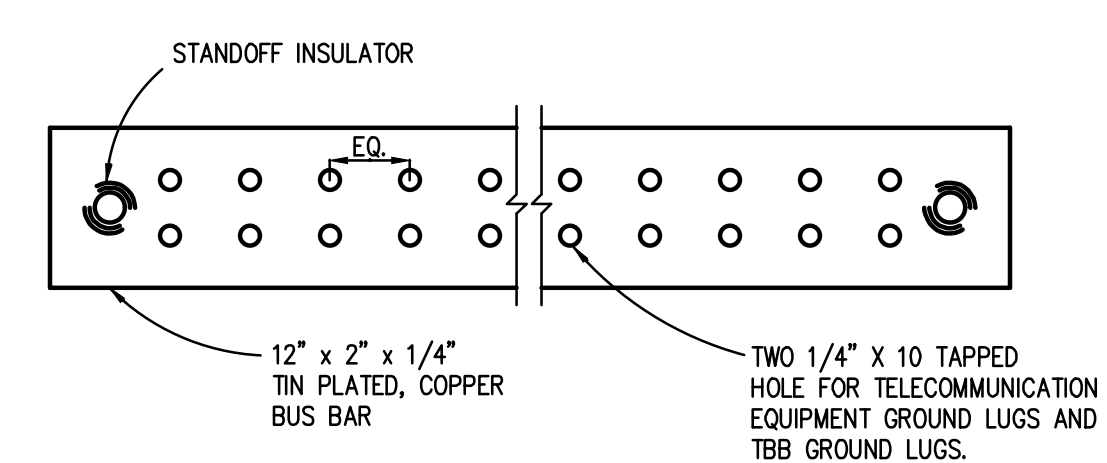
**SWITCHED (NON-NIGHT LIGHT EMERGENCY FIXTURE)**



**UNSWITCHED (NIGHT LIGHT EMERGENCY FIXTURE)**

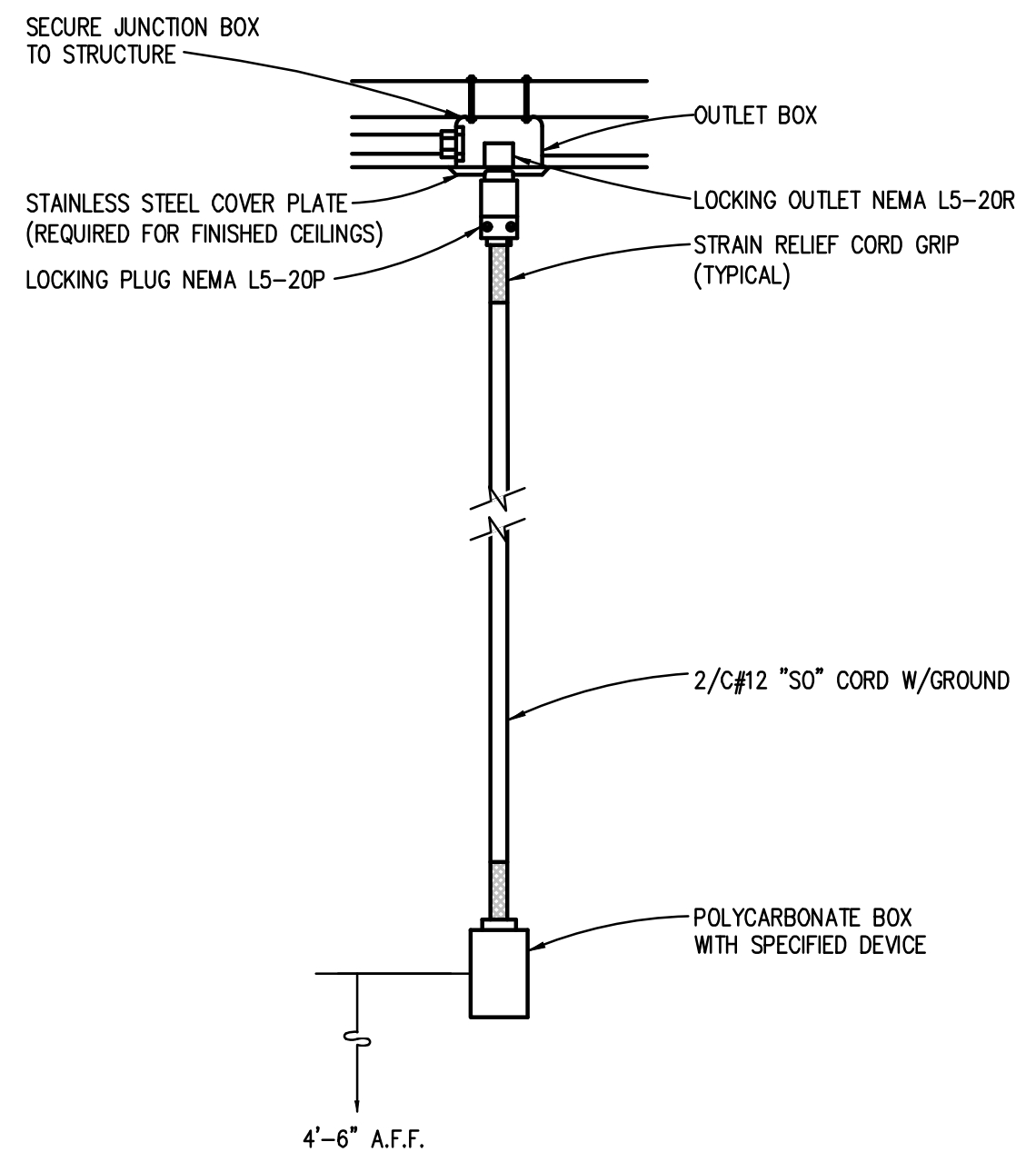
**EMERGENCY BALLAST WIRING DIAGRAM**  
NO SCALE

NOTE:  
PRIMARY CIRCUIT ONLY. LAMP LEADS NOT SHOWN.

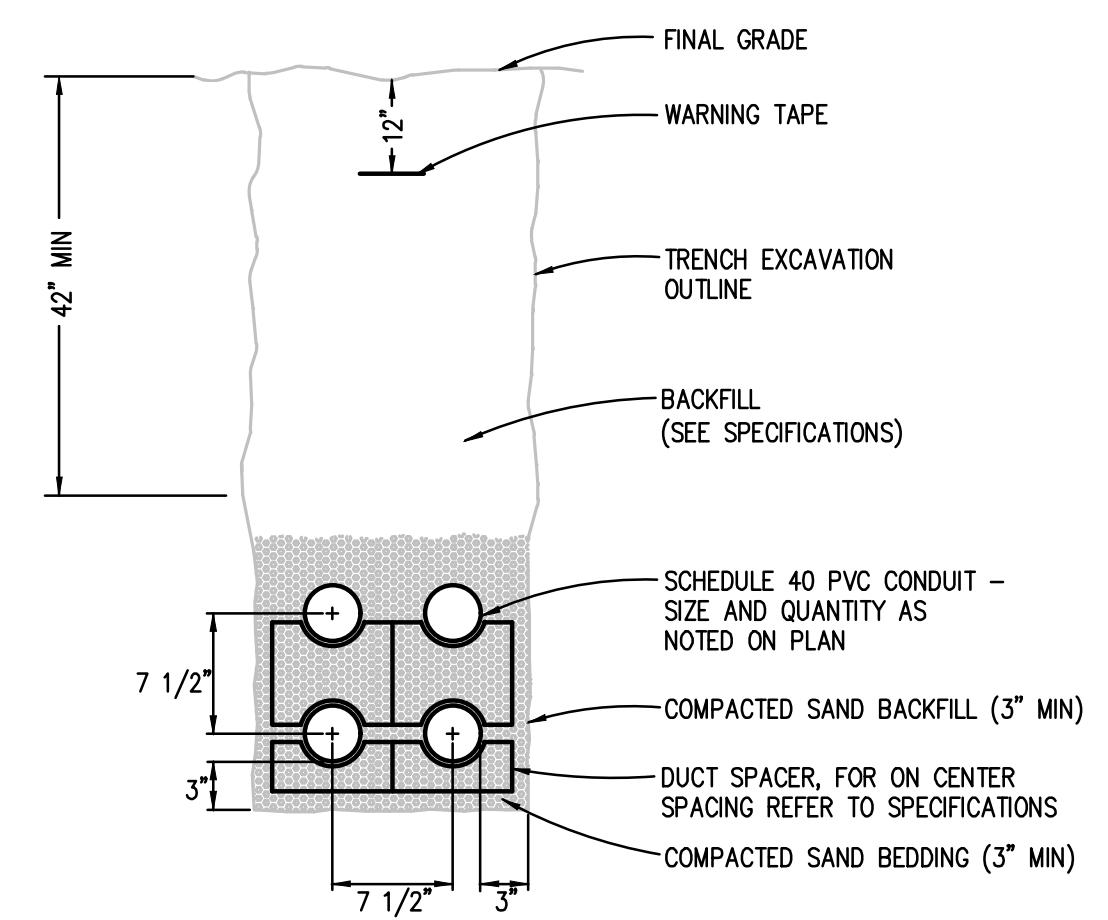


**TELECOMMUNICATIONS GROUND BUS (TGB) DETAIL**  
NO SCALE

NOTE: PROVIDE TWO HOLE LUGS FOR TBB CONNECTIONS, AND ONE HOLE LUGS FOR EQUIPMENT GROUND CONDUCTOR CONNECTIONS.



**SUSPENDED OUTLET DETAIL**  
NO SCALE



**UNDERGROUND CONDUIT DETAIL**  
NO SCALE

NOTES:  
1. QUANTITY AND CONFIGURATION OF DUCTS SHALL BE AS SHOWN ON PLAN DRAWINGS. 12" MINIMUM SEPARATION SHALL BE MAINTAINED BETWEEN ELECTRICAL AND COMMUNICATIONS DUCTS.

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PBA Project No: 2022.0428

**EHRESMAN ARCHITECTS**  
ehresmanarchitects.com

Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

E7.10

**GENERAL NOTES:**

1. E.C. TO PROVIDE ALL CONDUITS, SLEEVES, AND BACK BOXES FOR STRUCTURED CABLING.
2. STRUCTURED CABLING CONTRACTOR SHALL FIRESTOP ALL CONDUITS, SLEEVES, AND CORES PROVIDED FOR STRUCTURED CABLING WHETHER OR NOT THEY ARE UTILIZED.

**KEYED SHEET NOTES:**

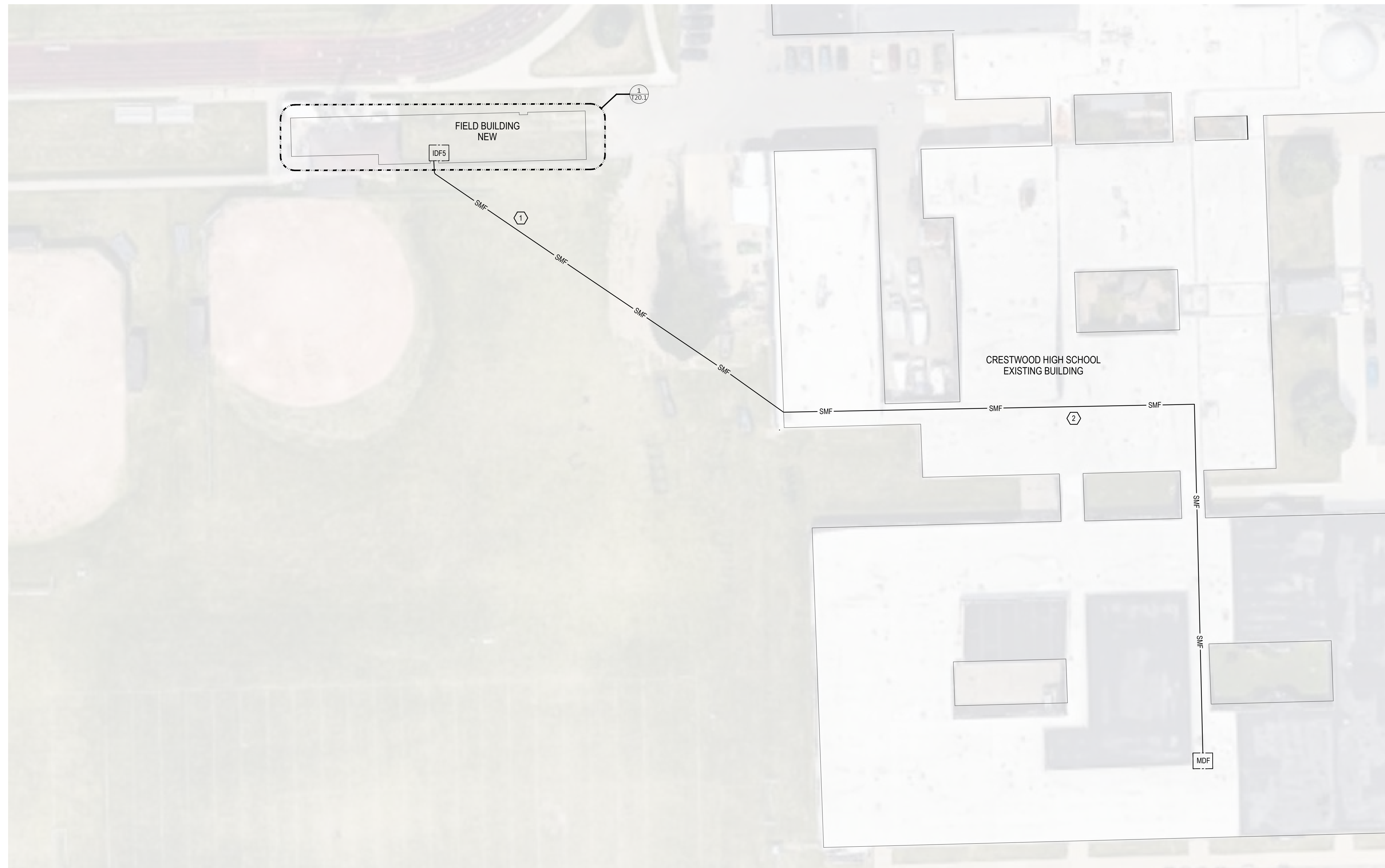
1. INSTALL 12 SINGLE-MODE FIBER IN 2" UNDERGROUND CONDUIT FROM IDFS TO CRESTWOOD HIGH SCHOOL ENTRY. CONDUIT PROVIDED BY E.C.
2. INSTALL 12 SINGLEMODE FIBER WITHIN CORRIDOR SUSPENDE CEILING IN CRESTWOOD HIGH SCHOOL TO MDF. INSTALL AND SUPPORT AS REQUIRED PER SPECIFICATIONS.

**STRUCTURED CABLING SYMBOL LEGEND:**

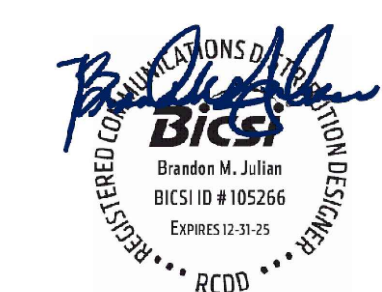
- ▽ SINGLE DATA OUTLET - ONE (1) CATEGORY 6 UTP - SEE DETAIL 1 SHEET T95
- ▽ DOUBLE DATA OUTLET - TWO (2) CATEGORY 6 UTP - SEE DETAIL 2 SHEET T95
- WAP WIRELESS ACCESS POINT - ONE (1) CATEGORY 6 UTP
- ER EQUIPMENT RACK
- SMF- SINGLE-MODE FIBER

**STRUCTURED CABLING ABBREVIATIONS:**

- MDF MAIN DISTRIBUTION FRAME
- IDF INTERMEDIATE DISTRIBUTION FRAME
- AFF ABOVE FINISH FLOOR
- AGL ABOVE GROUND LEVEL
- UNO UNLESS NOTED OTHERWISE
- E.C. ELECTRICAL CONTRACTOR



1 Field Building Communications Site Plan  
Scale: 1/32"=1'-0"



Bidding & Permits: 20 March 2023

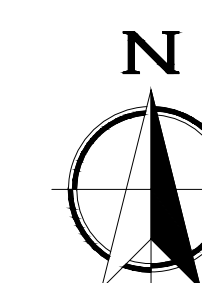
**Field Building  
Communicatons Site Plan**



Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

TO.11



**GENERAL NOTES:**

1. E.C. TO PROVIDE ALL CONDUITS, SLEEVES, AND BACK BOXES FOR STRUCTURED CABLING.
2. STRUCTURED CABLING CONTRACTOR SHALL FIRESTOP ALL CONDUITS, SLEEVES, AND CORES PROVIDED FOR STRUCTURED CABLING WHETHER OR NOT THEY ARE UTILIZED.

**KEYED SHEET NOTES:**

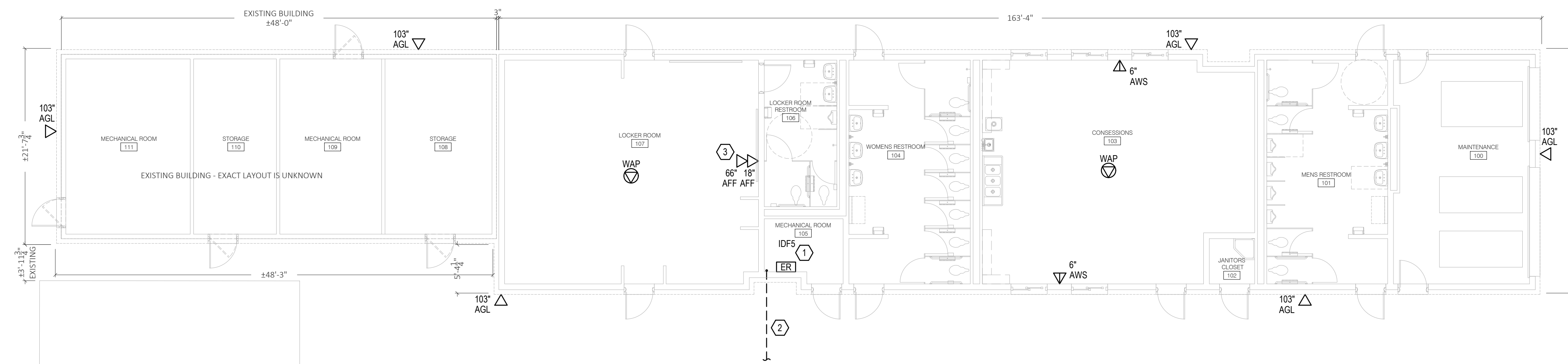
1. COORDINATE EXACT LOCATION OF EQUIPMENT RACK WITH OWNER PRIOR TO INSTALLATION.
2. INSTALL 12 STRAND SINGLE-MODE FIBER AS SPECIFIED TO THE MDF IN CRESTWOOD HIGH SCHOOL. 2" CONDUIT PROVIDED BY E.C.
3. WALL MOUNTED SMART PANEL LOCATION. SEE DETAIL 3 ON SHEET T70.1.

**STRUCTURED CABLING SYMBOL LEGEND:**

- ▽ SINGLE DATA OUTLET - ONE (1) CATEGORY 6 UTP - SEE DETAIL 1 SHEET T70.1
- ▽ DOUBLE DATA OUTLET - TWO (2) CATEGORY 6 UTP - SEE DETAIL 2 SHEET T70.1
- WAP WIRELESS ACCESS POINT - ONE (1) CATEGORY 6 UTP
- ER EQUIPMENT RACK

**STRUCTURED CABLING ABBREVIATIONS:**

- MDF MAIN DISTRIBUTION FRAME
- IDF INTERMEDIATE DISTRIBUTION FRAME
- AFF ABOVE FINISH FLOOR
- AWS ABOVE WORK SURFACE
- AGL ABOVE GROUND LEVEL
- UNO UNLESS NOTED OTHERWISE
- E.C. ELECTRICAL CONTRACTOR



1 Field Building Structured Cabling Plan  
Scale: 1/8"=1'-0"



**W & H**  
**WRIGHT HUNTER**  
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**TECHNOLOGY ADVISORS**  
 818 West 11 Mile Road  
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 Ph 248.594.5850  
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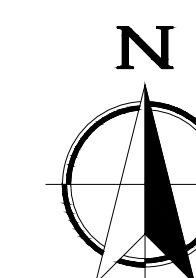
**Field Building  
Structured Cabling Plan**



Crestwood School District  
 Crestwood High School  
 Field Building & Site Improvements

Project No. 5622

T20.1

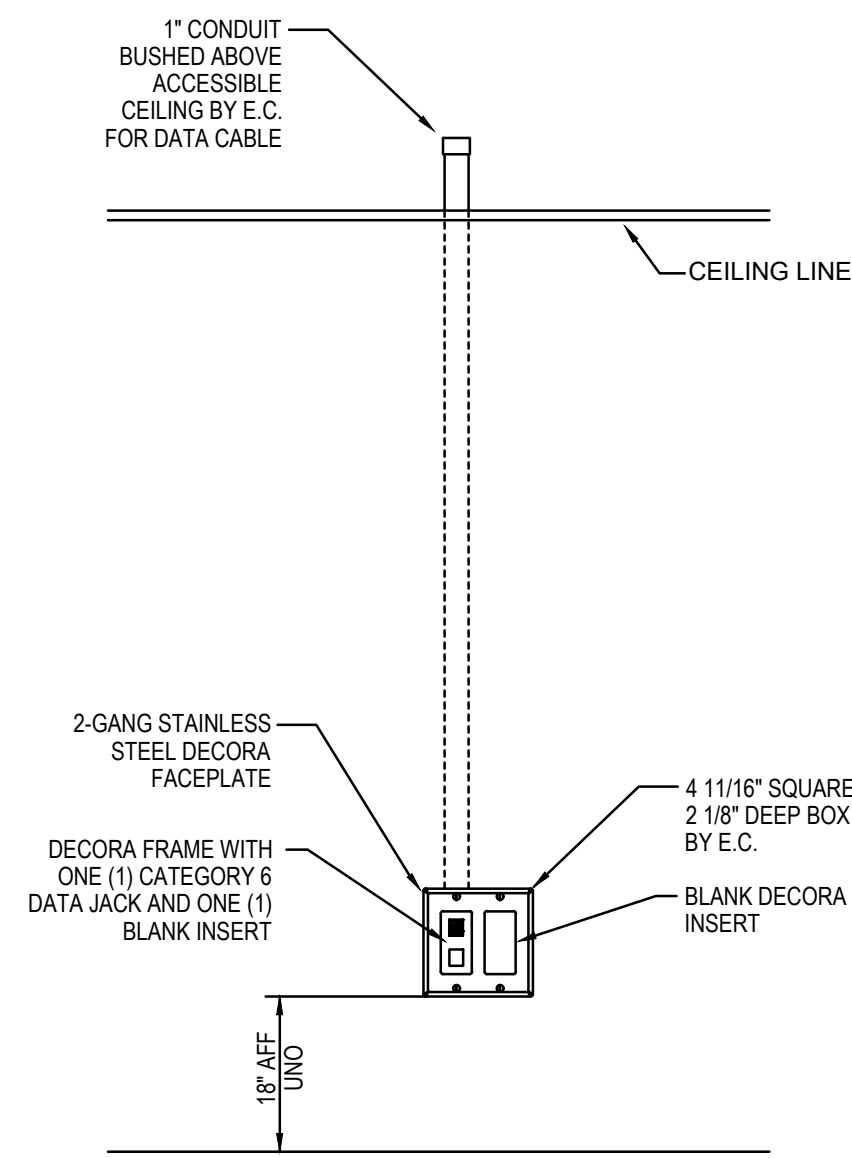


**GENERAL NOTES:**

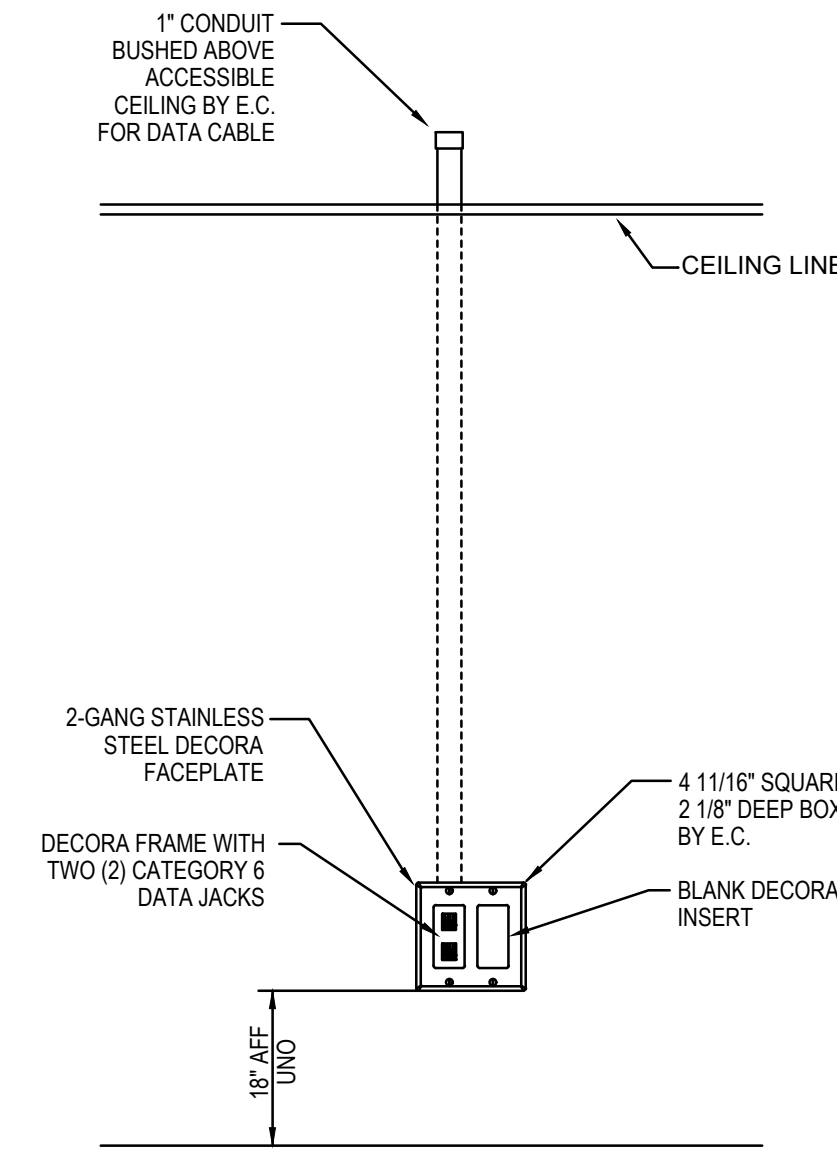
1. E.C. TO PROVIDE ALL CONDUITS, SLEEVES, AND BACK BOXES FOR STRUCTURED CABLING.
2. STRUCTURED CABLING CONTRACTOR SHALL FIRESTOP ALL CONDUITS, SLEEVES, AND CORES PROVIDED FOR STRUCTURED CABLING WHETHER OR NOT THEY ARE UTILIZED.

**STRUCTURED CABLING ABBREVIATIONS:**

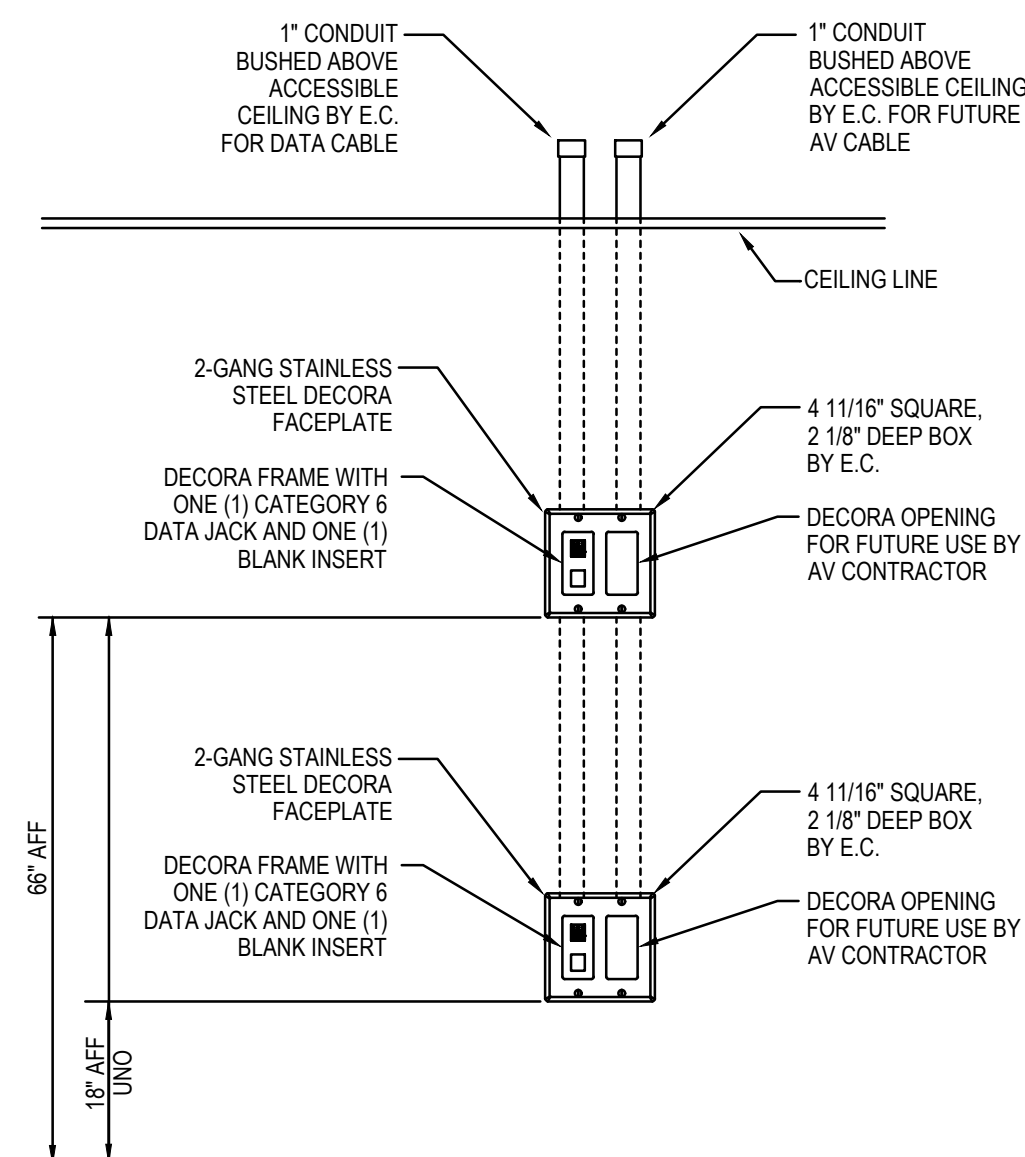
MDF	MAIN DISTRIBUTION FRAME
IDF	INTERMEDIATE DISTRIBUTION FRAME
AFF	ABOVE FINISH FLOOR
AGL	ABOVE GROUND LEVEL
UNO	UNLESS NOTED OTHERWISE
E.C.	ELECTRICAL CONTRACTOR



1 Single Data Outlet Detail  
T20.1 Scale: NTS



2 Double Data Outlet Detail  
T20.1 Scale: NTS



3 Smart Panel Location Detail  
T20.1 Scale: NTS



Bidding & Permits: 20 March 2023

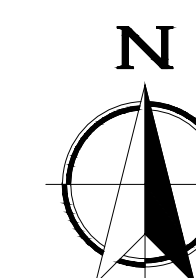
**Field Building  
Structured Cabling Details**

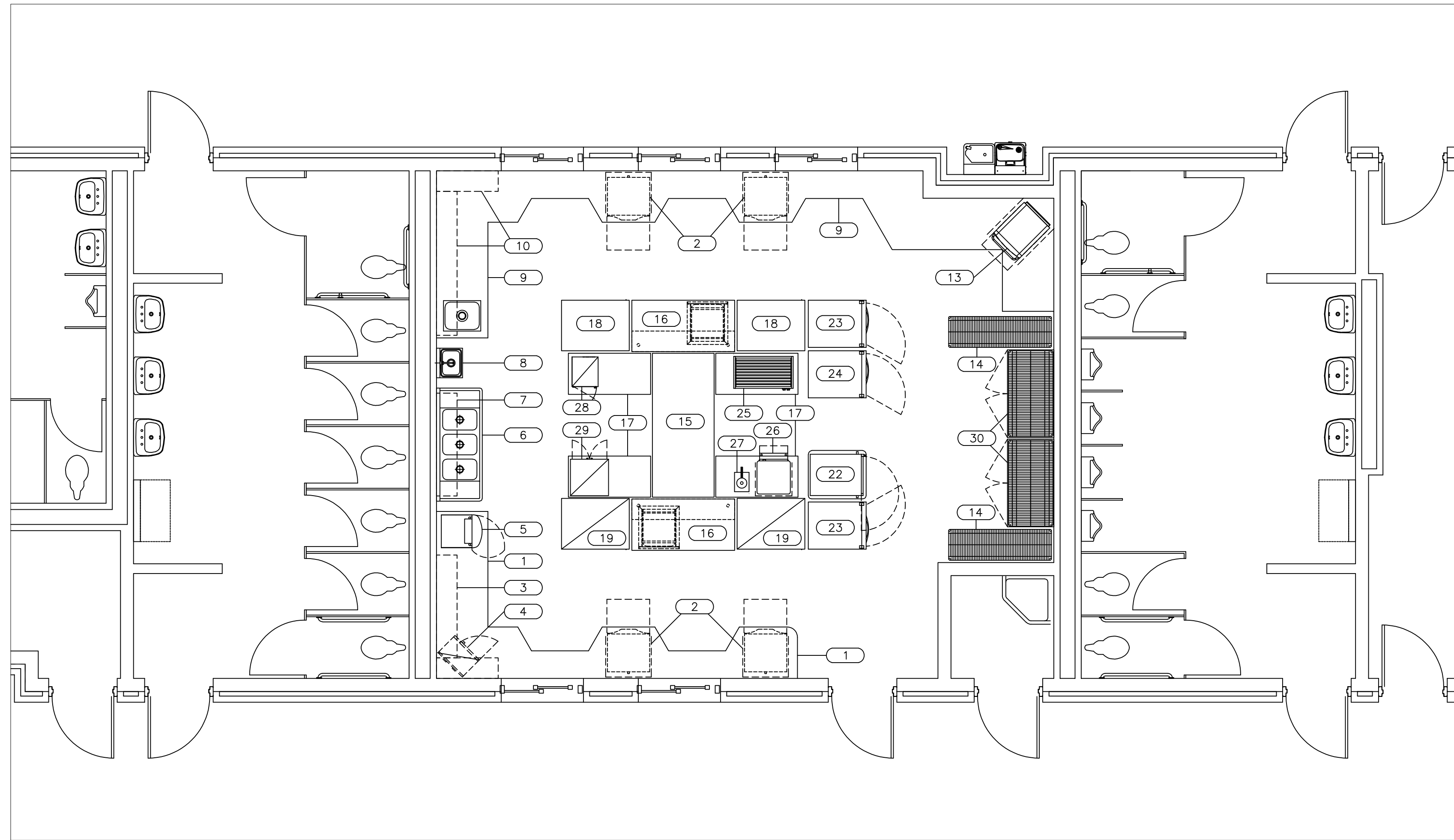


Crestwood School District  
Crestwood High School  
Field Building & Site Improvements

Project No. 5622

T70.1





EQUIPMENT SCHEDULE			
Item No	Qty	Equipment Category	Equipment Remarks
1	1	SERVING COUNTER "A"	
2	4	UNDERCOUNTER MOBILE HEATED DRAWERS	
3	LOT	WALL SHELVES "A"	
4	1	MICROWAVE OVEN	EXISTING
5	1	HOT BEVERAGE POWDER MIX DISPENSER	
6	1	THREE COMPARTMENT SINK	
7	LOT	WALL SHELVES "B"	
8	1	HAND SINK	
9	1	SERVING COUNTER "B"	
10	LOT	WALL SHELVES "C"	
11	-	UNASSIGNED NUMBER	
12	-	UNASSIGNED NUMBER	
13	1	SPEED OVEN	FUTURE
14	2	OPEN SHELVING	
15	1	MOBILE WORK TABLE "A"	
16	2	MOBILE WORK TABLE "B"	
17	4	MOBILE WORK TABLE "C"	
18	2	COLD BEVERAGE DISPLAY "A"	
19	2	COLD BEVERAGE DISPLAY "B"	EXISTING
20	-	UNASSIGNED NUMBER	
21	-	UNASSIGNED NUMBER	
22	1	MOBILE HOT HOLDING CABINET	
23	2	SECURE REFRIGERATOR	
24	1	SECURE FREEZER	
25	1	HOT DOG ROLLER GRILL	
26	1	NACHO BIN	
27	1	NACHO CHEESE PUMP	
28	1	PRETZEL DISPLAY	EXISTING
29	1	POPCORN MACHINE	EXISTING
30	2	SECURE SHELVING UNIT	

Bidding and Permits 20 March 2023

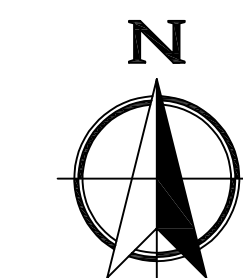
Food Service Floor Plan and Schedule



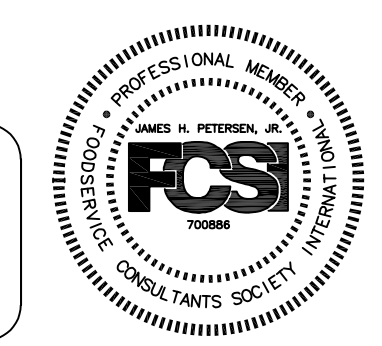
Crestwood School District  
Crestwood High School  
Field Building and Site Improvements

Project No. 5622

FS.1



**Cii Food Service Design**  
545-A North Saginaw Street  
Lapeer, MI 48446  
810-667-3100  
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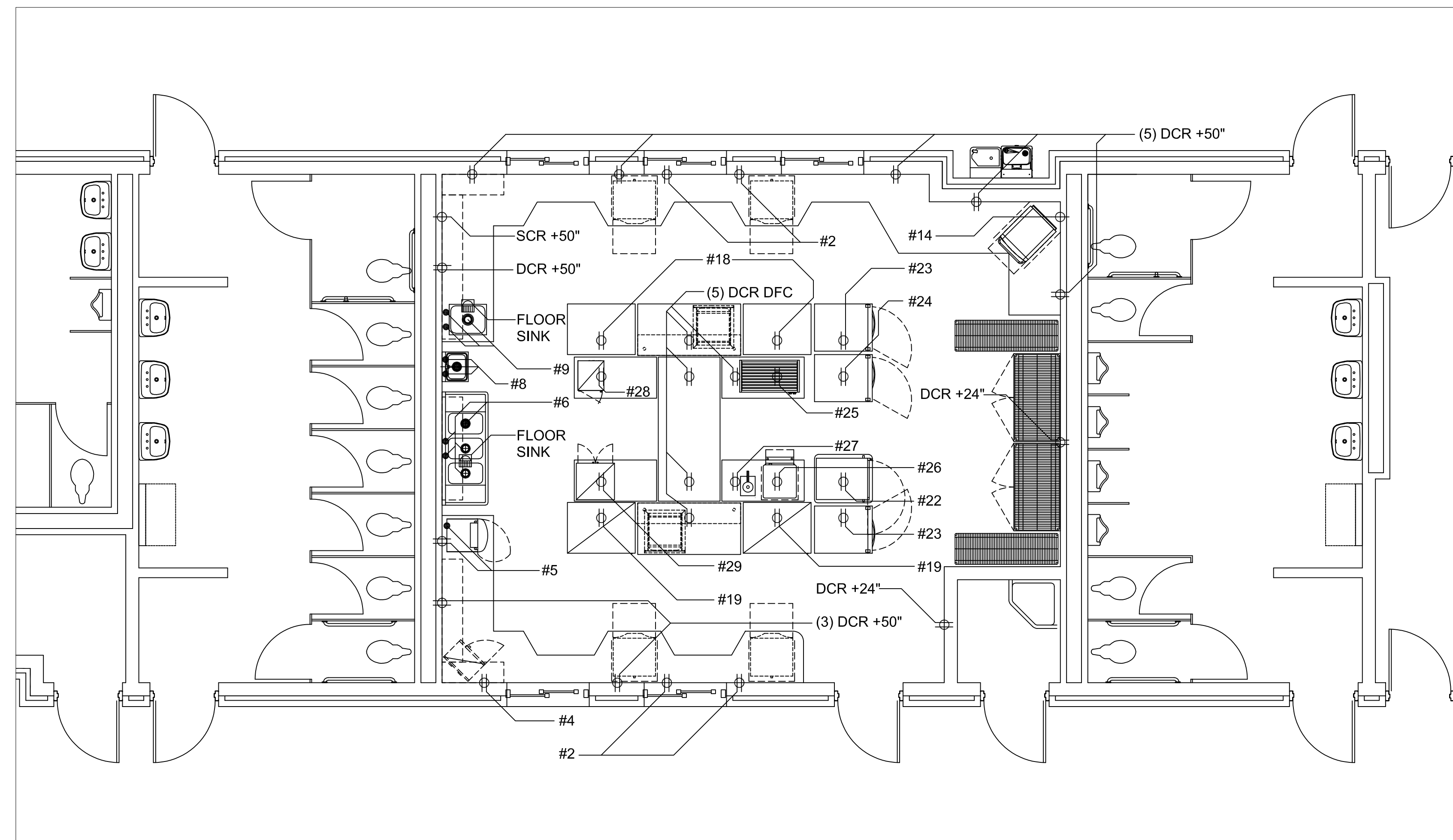
**NOTES**

- 1- LOCATIONS SHOWN ARE APPROXIMATE CONNECTION POINTS ON EQUIPMENT. FSEC TO PROVIDE FULLY DIMENSIONED ROUGH-IN PLAN.
- 2- UTILITY REQUIREMENTS, DIMENSIONS, INTERCONNECTIONS, AND SO ON ARE BASED ON THE FIRST-NAMED MANUFACTURER IN THE SPECIFICATIONS. THE FSEC IS RESPONSIBLE FOR ADVISING ANY DEVIATIONS THAT MAY RESULT FROM THE USE OF MANUFACTURERS OTHER THAN THE FIRST-NAMED, AND FOR ANY ADDITIONAL COSTS BY ANY TRADES INCURRED AS A RESULT OF USING MANUFACTURERS OTHER THAN THE FIRST-NAMED.
- 3- UTILITY REQUIREMENTS DO NOT NECESSARILY REFLECT EXISTING UTILITIES IN THE AREA. WHERE PRACTICAL, EXISTING UTILITIES SHALL BE USED IN LIEU OF PROVIDING NEW SERVICES.
- 4- THE FSEC SHALL VERIFY REQUIREMENTS FOR EXISTING EQUIPMENT.
- 5- MECHANICAL ENGINEER TO DETERMINE, PER LOCAL CODES, SIZE AND LOCATION OF GREASE INTERCEPTOR.
- 6- MECHANICAL ENGINEER TO DETERMINE, PER LOCAL REQUIREMENTS, DIRECT OR INDIRECT WASTE OUTLET CONFIGURATIONS FOR VARIOUS EQUIPMENT AND THE NEED FOR CONNECTION TO GREASE INTERCEPTORS.
- 7- GENERAL AREA FLOOR DRAINS NOT REQUIRED FOR FOOD SERVICE EQUIPMENT ARE NOT SHOWN.
- 8- PLUMBING CONTRACTOR TO EXTEND INDIRECT WASTE OUTLETS, AS LOCATED ON EQUIPMENT, TO BUILDING WASTE RECEPTACLES UNLESS OTHERWISE NOTED.
- 9- PLUMBING CONTRACTOR SHALL PROVIDE WATER PRESSURE REDUCING VALVES FOR PRESSURES IN EXCESS OF 50 PSI UNLESS OTHERWISE NOTED.
- 10- FSEC TO FURNISH AND INSTALL CORD AND PLUG AND COORDINATE MATCHING RECEPTACLE (NOT BY FSEC) TO FOOD SERVICE EQUIPMENT, AS INDICATED ON PLAN.
- 11- ELECTRICAL RECEPTACLES ARE INCLUDED WHERE REQUIRED TO ACCOMMODATE FOOD SERVICE EQUIPMENT. ELECTRICAL ENGINEER TO PROVIDE ADDITIONAL CONVENIENCE RECEPTACLES AS MAY BE NECESSARY.
- 12- FSEC WILL NOT BE RESPONSIBLE FOR FURNISHING ELECTRICAL COMPONENTS SUCH AS LINE OR DISCONNECT SWITCHES, SAFETY CUT-OUTS, CONTROL PANELS, FUSE BOXES, FITTINGS, WIRING OR PLUMBING COMPONENTS AND FIXTURES SUCH AS TEES, MIXING VALVES, ELBOWS, SHUT-OFF VALVES, COUPLINGS, AND FITTINGS OTHER THAN THOSE FURNISHED AS STANDARD WITH HIS EQUIPMENT OR AS OTHERWISE SPECIFIED.

EQUIPMENT SCHEDULE				OWNER VERIFY UTILITIES REQUIRED FOR EXISTING EQUIPMENT																				
Item No	Qty	Equipment Category	Equipment Remarks	Hot Water Size (in)	Hot Water AFF (in)	Cold Water Size (in)	Cold Water AFF (in)	Direct Drain Size (in)	Direct Drain AFF (in)	Indir Drain Size (in)	Gas Size (in)	Gas Use (MBTUH)	Gas AFF (in)	Plumbing Remarks	Volts	Phase	KW	HP	Amps	Electrical AFF (in)	Direct	Plug	Electrical Remarks	
1	1	SERVING COUNTER "A"																						
2	4	UNDERCOUNTER MOBILE HEATED DRAWERS													120	1	0.64		5.3	24			X	
3	LOT	WALL SHELVES "A"																						
4	1	MICROWAVE OVEN	EXISTING												120	1		2.0	15.0 CIR.	50			X	EXISTING - VERIFY
5	1	HOT BEVERAGE POWDER MIX DISPENSER				1/2	50								120	1	1.8		15.0 CIR.	50			X	
6	1	THREE COMPARTMENT SINK		1/2	14	1/2	14	2.0(GT)	16	(2)2.0*														
7	LOT	WALL SHELVES "B"																						
8	1	HAND SINK		1/2	14	1/2	14	1.5	16															
9	1	SERVING COUNTER "B"		1/2	14	1/2	14			2.0*														
10	LOT	WALL SHELVES "C"																						
11	-	UNASSIGNED NUMBER																						
12	-	UNASSIGNED NUMBER																						
13	1	SPEED OVEN	FUTURE												208/240	1	3.5		30.0 CIR.	50			X	
14	2	OPEN SHELVING																						
15	1	MOBILE WORK TABLE "A"																						
16	2	MOBILE WORK TABLE "B"																						
17	4	MOBILE WORK TABLE "C"																						
18	2	COLD BEVERAGE DISPLAY "A"													120	1		.5	6.3	DFC			X	
19	2	COLD BEVERAGE DISPLAY "B"	EXISTING												120	1		.5	6.3	DFC			X	EXISTING - VERIFY
20	-	UNASSIGNED NUMBER																						
21	-	UNASSIGNED NUMBER																						
22	1	MOBILE HOT HOLDING CABINET													120	1	1.5		12.5	DFC			X	
23	2	SECURE REFRIGERATOR													120	1		.25	3.8	DFC			X	
24	1	SECURE FREEZER													120	1		.5	6.8	DFC			X	
25	1	HOT DOG ROLLER GRILL													120	1	1.32		11.0	DFC			X	
26	1	NACHO BIN													120	1	1.08		9.0	DFC			X	
27	1	NACHO CHEESE PUMP													120	1	0.4		3.3	DFC			X	
28	1	PRETZEL DISPLAY	EXISTING												120	1	1.5			DFC			X	EXISTING - VERIFY
29	1	POPCORN MACHINE	EXISTING												120	1	1.6		13.7	DFC			X	EXISTING - VERIFY
30	2	SECURE SHELVING UNIT																						(DFA = DOWN FROM CEILING)

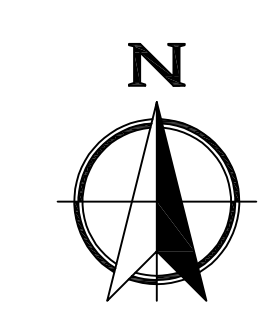
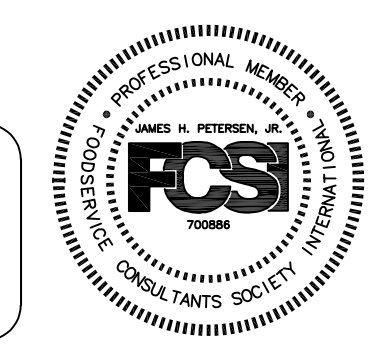
**LEGEND**

- EC ELECTRICAL CONNECTION
- ⊕ DR DUPLEX RECEPTACLE (120/1ϕ)
- ⊕ SR SINGLE RECEPTACLE (208/1ϕ)
- ⊕ DCR DUPLEX CONVENIENCE RECEPTACLE (120/1ϕ)
- ⊕ SCR SINGLE CONVENIENCE RECEPTACLE (208/1ϕ)
- ⊕ HP HORSEPOWER
- ⊕ KW KILOWATTS
- ⊕ FLA FULL LOAD AMPS
- HW HOT WATER
- CW COLD WATER
- W DIRECT WASTE
- FD FLOOR DRAIN
- FFD FUNNEL FLOOR DRAIN
- FS FLOOR SINK
- MBTUH 1,000 BTU PER HOUR
- DFC DOWN FROM ABOVE
- AFF ABOVE FINISHED FLOOR
- FSEC FOOD SERVICE EQUIPMENT CONTRACTOR



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**EHRESMAN ARCHITECTS**  
 ehresmanarchitects.com

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Project No. 5622 FS.2