



ADDENDUM

Project: **Crestwood School District
Crestwood High School
Field Building & Site Improvements**

Project No.: **5622**

Date: **March 29, 2023**

Addendum Number: **#3**

Each Bidder's proposal amount shall include the work described herein.

This Addendum is hereby made a part of the Contract Documents. Unless otherwise indicated, the work described herein shall comply with, and be equal in all respects to the original Specification and Drawings accompanying same. Include incidental work required to properly complete the work, whether stated herein or not.

DRAWING REVISIONS

Civil Drawings

Refer to Civil write up for further information regarding the attached sheets.

A0.11 – Architectural Site Plan & Details

- CHANGE:** Note 18
FROM: District logo and “Crestwood Chargers” iron arch – contractor to verify final logo layout with owners prior to manufacturing.
TO: District logo and “Crestwood Chargers” aluminum arch – contractor to verify final logo layout with owner prior to manufacturing (2” x 2” aluminum tube with 9” high x 1/4” thick aluminum letters – welded construction with acrylic polyurethane enamel finish (color as selected)).
- CHANGE:** Note 19
FROM: Ornamental iron fence posts and gate.
TO: Ornamental aluminum fence posts and gate.
- CHANGE:** Note 22
FROM: Concrete iron arch support pier.
TO: Brick and grouted CMU pier for support of aluminum arch.
- CHANGE:** Note 23
FROM: Limestone cap.
TO: Limestone cap with openings for aluminum arch supports, coordinate size and location with arch manufacturer.
- CHANGE:** Note 24
FROM: Fence post - to be driven into the ground a minimum of 3'-6" to meet frost requirements.
TO: Fence post set in concrete foundation minimum of 3'-6" below grade, foundation size per manufacturer requirements.
- REVISE:** Detail 2/A0.11 as indicated on sheet.
ADD: Dimensions to detail 3/A0.11 for clarity.

ehresmanarchitects.com

A0.12 – Architectural Site Plan & Details

ADD: Sheet A0.12 Architectural Site Plan & Details

A1.11 – Removal Plans

ADD: Note R19 – “Existing concrete floor slab – complete.”

ADD: Note tag R19 as indicated on detail 2/A1.11

A2.11 – Floor Plans

ADD: Note 39 – “Sealed concrete floor slab over 15 Mil vapor barrier – properly lap and seal joints per manufacturer’s requirements.”

ADD: Note tag 39 as indicated on detail 1/A2.11

A2.12 – Floor Plans

ADD: Note 39 – “Sealed concrete floor slab over 15 Mil vapor barrier – properly lap and seal joints per manufacturer’s requirements.”

ADD: Note tag 39 as indicated on detail 1/A2.12

A2.50 – Roof Plans

DELETE: Downspouts on Detail 2/A2.50 Building B Roof Plan

REVISE: Detail 2/A2.50 as indicated on sheet.

A3.01 – Exterior Elevations

REVISE: Downspout on Detail 1/A3.01 Building A Elevation (East)

ADD: Downspouts on Detail 3/A3.01 Building B Elevation (North)

DELETE: Downspout on Detail 4/A3.01 Building B Elevation (East)

DELETE: Downspout on Detail 6/A3.01 Building B Elevation (West)

CHANGE: Detail Tag 3/3.01

FROM: Detail 3/3.01

TO: Detail 3/A3.01

CHANGE: Detail Tag 4/3.01

FROM: Detail 4/3.01

TO: Detail 4/A3.01

CHANGE: Detail Tag 5/3.01

FROM: Detail 5/3.01

TO: Detail 5/A3.01

CHANGE: Detail Tag 6/3.01

FROM: Detail 6/3.01

TO: Detail 6/A3.01

A3.50 – Building Sections – Building A

REVISE: Detail 2/A3.50 as indicated on sheet.

A3.51 – Building Sections – Building B

REVISE: Detail 1/A3.51 as indicated on sheet.

REVISE: Detail 2/A3.51 as indicated on sheet.

A9.00 – Exterior Wall Sections – Building A

CHANGE: Note 21

FROM: 2” CRC main runner attached to building structure with galvanized tie wire (space per manufacturer’s recommendations).

TO: Soffit framing – preservative treated 2x @ 24” O.C.

CHANGE: Note 26
FROM: 2"x 8" preservative treated wood plate.
TO: 2"x 6" preservative treated wood plate.

REVISE: Detail A10/A9.00 as indicated on sheet.

A9.01 – Exterior Wall Sections – Building A

CHANGE: Note 21
FROM: 2" CRC main runner attached to building structure with galvanized tie wire (space per manufacturer's recommendations).
TO: Soffit framing - preservative treated 2x @ 24" O.C.

CHANGE: Note 26
FROM: 2"x 8" preservative treated wood plate.
TO: 2"x 6" preservative treated wood plate

REVISE: Detail A12/A9.01 as indicated on sheet.

REVISE: Detail A13/A9.01 as indicated on sheet.

A9.02 – Exterior Wall Sections – Building B

CHANGE: Note 21
FROM: 2" CRC main runner attached to building structure with galvanized tie wire (space per manufacturer's recommendations).
TO: Soffit framing - preservative treated 2x @ 24" O.C.

CHANGE: Note 26
FROM: 2"x 8" preservative treated wood plate.
TO: 2"x 6" preservative treated wood plate

CHANGE: Note Tag E1 to 4 on B1/A9.02.

REVISE: Detail B1/A9.02 as indicated on sheet.

REVISE: Detail B2/A9.02 as indicated on sheet.

REMOVE: Note Tag 35 from Detail B1/A9.02.

ADD: Note tags to drawing sheet A9.02.

A9.03 – Exterior Wall Sections – Building B

CHANGE: Note 21
FROM: 2" CRC main runner attached to building structure with galvanized tie wire (space per manufacturer's recommendations).
TO: Soffit framing - preservative treated 2x @ 24" O.C.

CHANGE: Note 26
FROM: 2"x 8" preservative treated wood plate.
TO: 2"x 6" preservative treated wood plate

CHANGE: Note Tag E1 to 4 on detail B3/A9.03

REVISE: Detail B3/A9.03 as indicated on sheet.

REVISE: Detail B4/A9.03 as indicated on sheet.

REMOVE: Note Tag 35 from Detail B3/A9.03.

ADD: Note tags to drawing sheet A9.03.

A9.10 – Exterior Details

CHANGE: Note 21
FROM: 2" CRC main runner attached to building structure with galvanized tie wire (space per manufacturer's recommendations).
TO: Soffit framing - preservative treated 2x @ 24" O.C.

CHANGE: Note 26
FROM: 2"x 8" preservative treated wood plate.
TO: 2"x 6" preservative treated wood plate

REVISE: Detail 5/A9.10 as indicated on sheet.

A9.11 – Exterior Details

- CHANGE:** Note 21
FROM: 2" CRC main runner attached to building structure with galvanized tie wire (space per manufacturer's recommendations).
TO: Soffit framing - preservative treated 2x @ 24" O.C.
- CHANGE:** Note 26
FROM: 2"x 8" preservative treated wood plate.
TO: 2"x 6" preservative treated wood plate
- REVISE:** Detail 6/A9.11 as indicated on sheet.
REVISE: Detail 7/A9.11 as indicated on sheet.
REVISE: Detail 8/A9.11 as indicated on sheet.

A9.50 – Interior Wall Sections

- CHANGE:** Note 21
FROM: 2" CRC main runner attached to building structure with galvanized tie wire (space per manufacturer's recommendations).
TO: Soffit framing - preservative treated 2x @ 24" O.C.
- CHANGE:** Note 26
FROM: 2"x 8" preservative treated wood plate.
TO: 2"x 6" preservative treated wood plate
- REVISE:** Detail A1/A9.50 as indicated on sheet.

S10 – Structural Plans

- REVISE:** Revised loose lintel type in roof framing sheet notes.

S11 – Building Plans & Elevations

- ADD:** Added loose lintel call-out to Bldg. B roof plan.
ADD: Added bent plate jamb detail to elevation 3.

S30 – Typical Masonry Details

- REVISE:** Revised size of loose lintel.

S32 – Sections and Details

- REVISE:** Revised truss hurricane ties to H2.5A.
REVISE: Revised top of footing depth in wall and footing sections.
ADD: Added bent plate jamb detail.

FS.1 – Food Service Floor Plan and Schedule

- REVISE:** Adjustment to steel countertop.

SPECIFICATION REVISIONSSection 00 0110 - Table of Contents

- ADD:** 2.18 Division 32 – Exterior Improvements, D. Section 32 3130 – Chainlink Fence – Vinyl

Section 00 0115 – List of Drawing Sheets

- ADD:** A0.12 Architectural Site Plan & Details

Section 11 4011 Food Service Equipment; 2.9.09 Item # 9 Serving Counter "B"; Letter C

CHANGE: **FROM:** The rear shall be provided with a 1" single-thickness turn-up except at the pass window locations, where they shall be turned down and butted up against the building wall. The front and both sides shall be turned down.

TO: The rear shall be provided with a 1" single-thickness turn-up except at the pass window locations, where they shall extend through the wall 2" beyond the outside wall surface, turn down 2" with a 1/2" return at the bottom, and closed at the bottom to exclude vermin. The front and both sides shall be turned down.

Section 32 3130 – Chainlink Fence - Vinyl

ADD: New Spec Section

GENERAL

RFI Questions and Answers

RFI Question 12: Provide Specification for the Vinyl Fence. Is this part of Alt No.2?

RFI Answer 12: Refer to the Spec Section 32 3130 - Attached as part of this addendum.

RFI Question 13: Provide steel size & radius for Iron Arch. What is the finish for the Iron Arch? What material is the lettering? Is the arch extended into the footing pier?

RFI Answer 13: Refer to the re-issued architectural sheet A0.11 for further information.

RFI Question 14: Provide detail on bench supports refer to detail B3/A9.03. What type of bracket is this?

RFI Answer 14: This item was answered as a part of Addendum #2.

RFI Question 15: Refer to sheet C4.1. Are we to furnish & install bollards? If so, are they to be galvanized or painted?

RFI Answer 15: Refer to the attached civil drawings for further information.

RFI Question 16: Please indicate what new vinyl fence is part of phase 2.

RFI Answer 16: Refer to the attached civil drawings for further information.

RFI Question 17: What is the tap elevation for the sanitary sewer? Also, you are missing all the invert elevations for the sanity line.

RFI Answer 17: Refer to the attached civil drawings for further information.

RFI Question 18: Provide signage location interior and or exterior?

RFI Answer 18: Refer to Spec Section "10 1400 Signage" as well as the attached sketch (Attachment A) for further information on required locations.

RFI Question 19: Are we responsible for IT technology or is this work for the district to do?

RFI Answer 19: This item is part of the work scope and should be included in the bid.

RFI Question 20: If the stainless-steel countertop is a part of the Kitchen Equipment Alternate and is not selected what are we to put in place of it?

RFI Answer 20: Please include the stainless-steel countertop in your base bid as well as the Kitchen Equipment Alternate.

RFI Question 21: Is the Ticket Booth being provided by the district per Alt No. 2?

RFI Answer 21: Yes, that is correct.



RFI Question 22: Is there foundations for the piers per Alt No. 2?

RFI Answer 22: Refer to the re-issued architectural sheet A0.11 and the added sheet A0.12 for further information.

RFI Question 23: Refer to sheet C3.3 advise on what is the dark lines between structure No. 2 &1. What are we supposed to do with structure No. 1?

RFI Answer 23: Refer to attached civil drawings for further information.

RFI Question 24: Is the watermain from the building A to main to HS is 6" or 3" (refer to sheet M0.20 & C3.1).

RFI Answer 24: Refer to attached civil drawings for further information.

RFI Question 25: Is the bid due date going to be extended?

RFI Answer 25: No, there will **NOT** be an extension of the bid due date.

MEMORANDUM

DATE: March 29th, 2023

TO: Mackenzie Fisher

ORGANIZATION NAME: Ehresman

FROM: Tyler Drummy

RE: Crestwood HS – Add No. 3

JOB NO.: Ehresman – 2522 and SD - NP22-067

The following is the write-up for ADD No. 3:

Civil Items:

C1.0

- Added a civil sheet index.

C1.1

- Added trees along the north property line that were previously not shown.

C1.2

- Changed “Area 2” view to show the area where work will take place in the south parking lot.

C3.1

- Added invert elevations for Phase II storm and sanitary sewers at building stubs.
- Adjusted sanitary structures and sewers.
- Adjusted watermain lines.
- Adjusted storm structures and sewers.
- Removed storm calculations and storm/sanitary structure schedules.
- Added details from sheet C3.2.

C3.2

- Changed “Area 2” view to show the area where work will take place in the south parking lot.
- Adjusted sanitary structures and sewers.
- Adjusted watermain line into the existing building.
- Added a crossing callout for the proposed sanitary pipe elevation.
- Removed details that were added to sheet C3.1.

- Added both a storm structure schedule and a sanitary structure schedule.
- Added “SEWER 6” CLEANOUT DETAIL” detail.
- Added “CONCRETE ENCASEMENT” detail.

C3.3

- Changed sheet C3.3 from “UTILITY PLAN – AREA 3” to “UTILITY DETAILS”.

C4.1

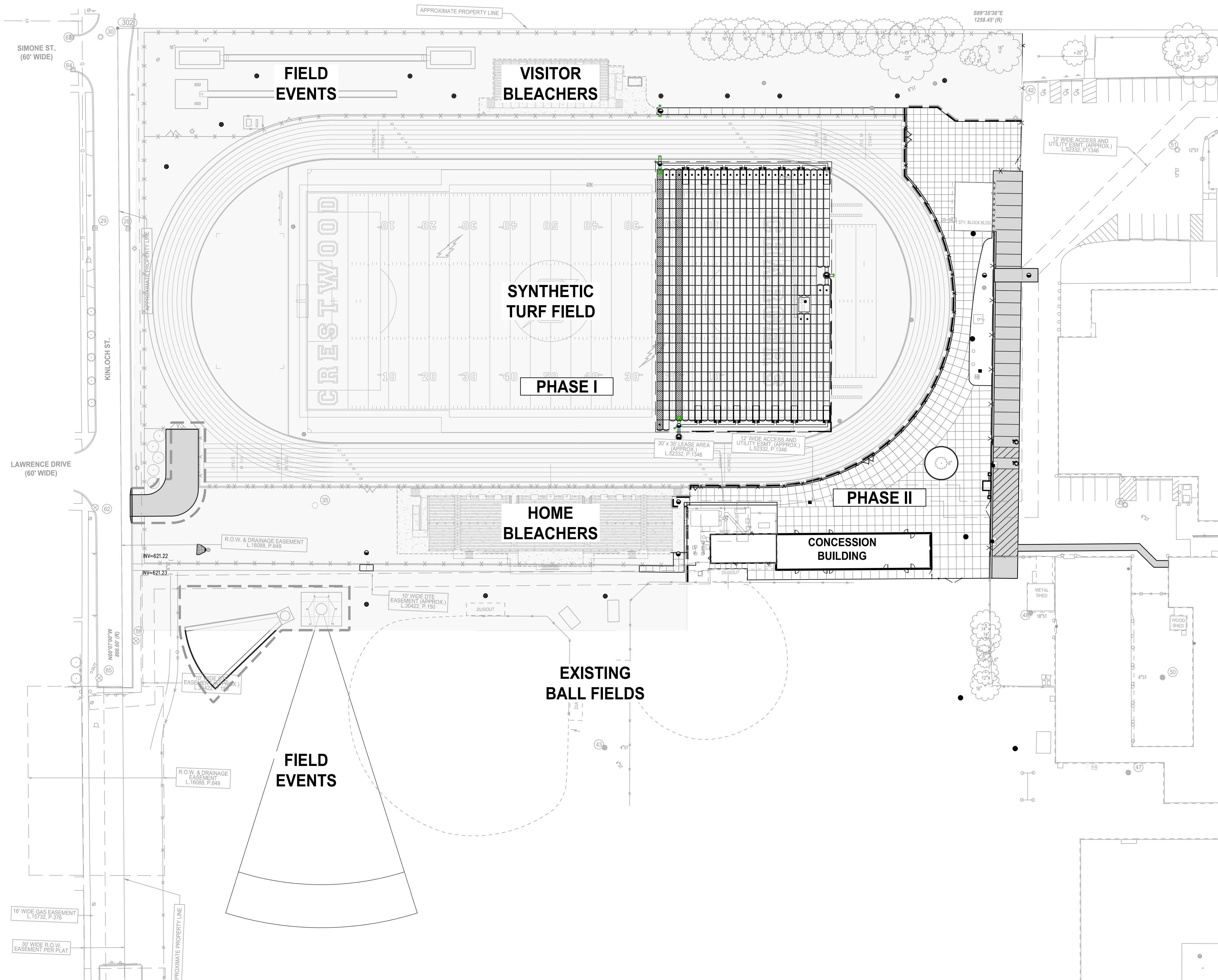
- Adjusted the watermain trench limits.
- Added “BOLLARD” detail as well as bollard detail callout in plan.

C5.1

- Added rim elevations at sanitary manholes and cleanouts.

C5.2

- Added rim elevations at sanitary manholes.



LEGEND

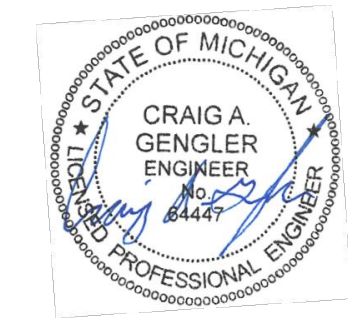
—	PROPOSED WATERMAIN	●	PROPOSED SAN MANHOLE (SAN)
- - -	PROPOSED SANITARY	●	PROPOSED STORM MANHOLE (MH)
- · - · -	PROPOSED STORM SEWER	■	PROPOSED CATCH BASIN (CB)
- · - · -	PROPOSED GAS MAIN	□	PROPOSED INLET (IN)
- · - · -	PROPOSED ELECTRIC	▶	PROPOSED END SECTION (ES)
⊙	PROPOSED HYDRANT	⊙	PROPOSED FIELD 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)	CS	STORM SEWER STRUCTURE
▨	STANDARD BITUMINOUS PAVEMENT	2	STRUCT. NO.
▨	HEAVY-DUTY BITUMINOUS PAVEMENT	2	STRUCT. NO.
▨	DEEP-STRENGTH BITUMINOUS PAVEMENT	20	SANITARY SEWER STRUCTURE
▨	CONCRETE PAVEMENT	10	STRUCT. NO.
▨	CONCRETE SIDEWALK	XXX	STRUCT. TYPE
▨	MILL PAVEMENT		

CIVIL SHEET INDEX

- C1.0 - GENERAL PLAN
- C1.1 - TOPOGRAPHICAL SURVEY - AREA 1
- C1.2 - TOPOGRAPHICAL SURVEY - AREA 2
- C1.3 - TOPOGRAPHICAL SURVEY - STRUCTURE TABLE
- C2.1 - NOT INCLUDED IN PLAN SET
- C2.2 - NOT INCLUDED IN PLAN SET
- C3.1 - UTILITY PLAN - AREA 1
- C3.2 - UTILITY PLAN - AREA 2
- C3.3 - UTILITY DETAILS
- 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



905 South Blvd. East
 Rochester Hills, MI 48307
 Phone: (248) 844-5400
 Fax: (248) 844-5404
 www.sda-eng.com
 (800) 598-1600



Addendum #3: 29 March 2023

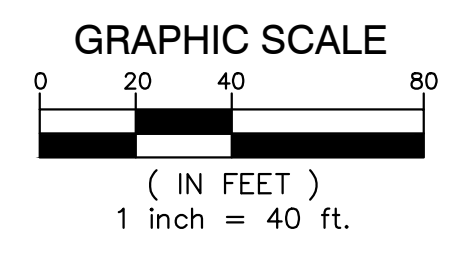
GENERAL PLAN

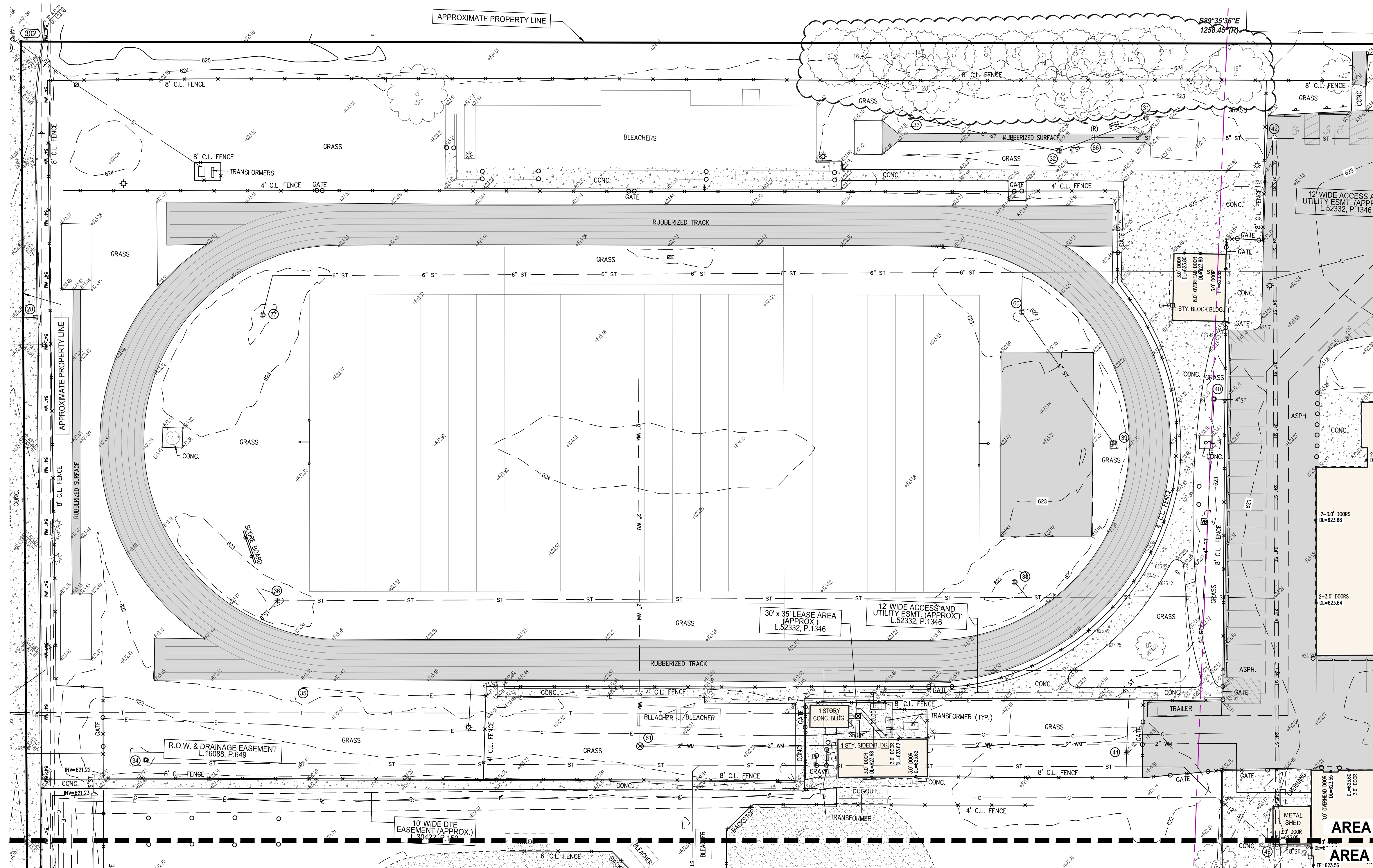


Crestwood School District
 Crestwood High School
 Site Improvements

Project No. 2522 [SDA NP22067]

C1.0





LEGEND

	MANHOLE
	CATCH BASIN
	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
	DS-S DOWNSPOUT INTO STORM DRAIN
	DS-G DOWNSPOUT TO GROUND
	CONIFEROUS TREE
	DECIDUOUS TREE
	DECIDUOUS SHRUB
	CONIFEROUS SHRUB
	SECTION CORNER
	EDM10 TRAVERSE POINT
	STRUCTURE NUMBER
	SDA POINT No.
	SPOT ELEVATION
	TC TOP OF CURB ELEVATION
	GU GUTTER ELEVATION
	TP TOP OF PAVEMENT ELEVATION
	EM EDGE OF METAL ELEVATION
	TW TOP OF WALK ELEVATION
	TWALL TOP OF WALL ELEVATION
	BWall BOTTOM OF WALL ELEVATION
	GR GROUND ELEVATION
	UG UNDERGROUND
	FO FIBER OPTIC
	CONC CONCRETE
	ASPH ASPHALT
	FF FINISH FLOOR ELEVATION
	DL DOOR LEDGE ELEVATION
	F.I FOUND IRON
	F.M FOUND MONUMENT
	F.P.K FOUND P.K. NAIL
	S.I SET IRON WSDA CAP
	S.P.K SET P.K. NAIL
	S.P.A.TAG SET P.A. NAIL WSDA TAG
	MAG SET MAGNETIC NAIL
	MAG/TAG SET MAGNETIC NAIL WSDA TAG
	M MEASURED
	R RECORD
	C CALCULATED
	INV INVERT ELEVATION
	CMP CORRUGATED METAL PIPE
	GI SANITARY SEWER (SAN)
	ST STORM SEWER (STM)
	WM WATERMAIN (WM)
	OH OVERHEAD WIRE
	CS COMBINED SEWER
	STE STEAM LINE
	O OIL LINE
	F UG FIBER (COMM.)
	E UG ELECTRIC (ELEC.)
	T UG PHONE (PH)
	C UG CABLE (CBL)
	CUL CULVERT
	500 MAJOR CONTOUR
	651 MINOR CONTOUR
	BOUNDARY LINES
	ROW LINES
	SECTION LINES
	PROPERTY LINES
	ASPHALT
	CONCRETE
	GRAVEL/DIRT/MULCH
	BRICK/PAVERS
	WATER

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Addendum #: 29 March 2023

INFORMATIONAL TITLE EXCEPTION COMMENTS

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

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

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

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

GRANT OF EASEMENT
RECORDED DATE: 08-02-1996
LIBER/PAGE: 18988 / 649
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-I 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 (NAVD88) 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 2022032902465 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 800-452-7171.

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

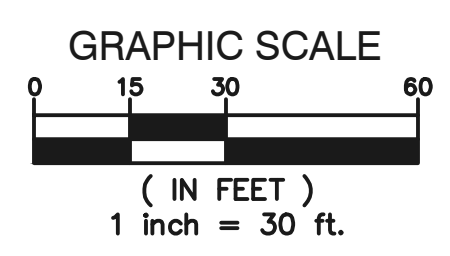
LEGAL DESCRIPTION

SOURCE: ASK SERVICES
OWNER: CRESTWOOD SCHOOL DISTRICT
TAX PARCEL ID: 33 01 19 0036 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 0D 07M 4.69 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

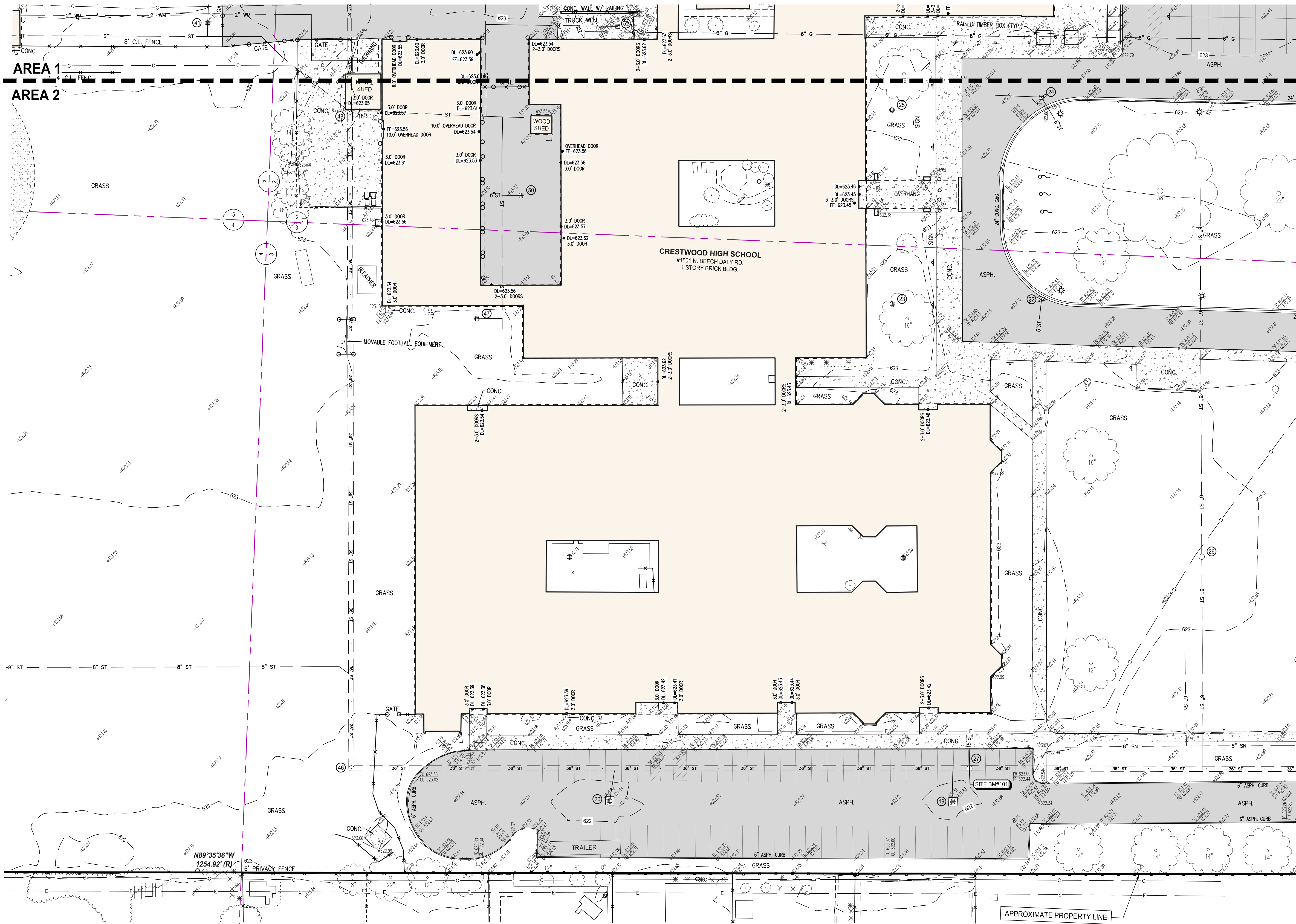


Topographical Survey - Area 1
EHRESMAN ARCHITECTS
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Crestwood School District
Crestwood High School
Site Improvements

Project No. 2522 (SDA NP22067)

C1.1



LEGEND

- MANHOLE
- ⊕ CATCH BASIN
- ⊕ 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
- ⊕ UNVERRIED MAPPED OBJECT
- ⊕ ELECTRIC RISER OR METER
- ⊕ TELEPHONE RISER
- ⊕ CABLE TV RISER
- ⊕ AIR CONDITION UNIT
- ⊕ UTILITY POLE
- ⊕ UTILITY POLE W/ LAMP EXTENSION
- (ARROW) LIGHT POLE
- (ARROW) 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
- ⊕ DS-S DOWNSPOUT INTO STORM DRAIN
- ⊕ DS-G DOWNSPOUT TO GROUND
- CONIFEROUS TREE
- DECIDUOUS TREE
- ⊕ DECIDUOUS SHRUB
- ⊕ CONIFEROUS SHRUB
- ⊕ SECTION CORNER
- ⊕ SDAP10 TRAVERSE POINT
- ⊕ STRUCTURE NUMBER
- ⊕ SDA POINT No.
- ⊕ SPOT ELEVATION
- TC TOP OF CURB ELEVATION
- GU GUTTER ELEVATION
- TP TOP OF PAVEMENT ELEVATION
- EM EDGE OF METAL ELEVATION
- TW TOP OF WALK ELEVATION
- TWALL TOP OF WALL ELEVATION
- BWALL BOTTOM OF WALL ELEVATION
- GR GROUND ELEVATION
- UG UNDERGROUND
- FO FIBER OPTIC
- CONC CONCRETE
- ASPH ASPHALT
- FF FINISH FLOOR ELEVATION
- DL DOOR LEDGE ELEVATION
- F.I FOUND IRON
- F.M FOUND MONUMENT
- F.P.K FOUND P.K. NAIL
- S.I SET IRON WISDA CAP
- S.P.K SET P.K. NAIL
- S.P.K/TAG SET P.K. NAIL WISDA TAG
- MAG SET MAGNETIC NAIL
- MAG/TAG SET MAGNETIC NAIL WISDA TAG
- M MEASURED
- R RECORD
- C CALCULATED
- INV. INVERT ELEVATION
- CMP CORRUGATED METAL PIPE
- G SANITARY SEWER (SAN)
- ST STORM SEWER (STM)
- WM WATERMAIN (WM)
- OH OVERHEAD WIRE
- COMBINED SEWER
- STE STEAM LINE
- O OIL LINE
- F UG FIBER (COMM.)
- E UG ELECTRIC (ELEC.)
- P UG PHONE (PH)
- C UG CABLE (CBL)
- CHAIN LINK FENCE (CL)
- WOOD FENCE
- WOVEN WIRE FENCE (WW)
- GUARD RAIL
- EDGE OF BRUSHWOODS
- CENTERLINE OF DITCH
- CULVERT
- 650 MAJOR CONTOUR
- 651 MINOR CONTOUR
- BOUNDARY LINES
- ROW LINES
- SECTION LINES
- PROPERTY LINES
- ASPHALT
- CONCRETE
- GRAVEL/DIRT/MULCH
- BRICK / PAVERS
- WATER

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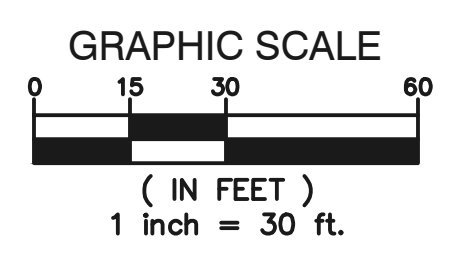
Addendum #3: 29 March 2023

Topographical Survey - Area 2

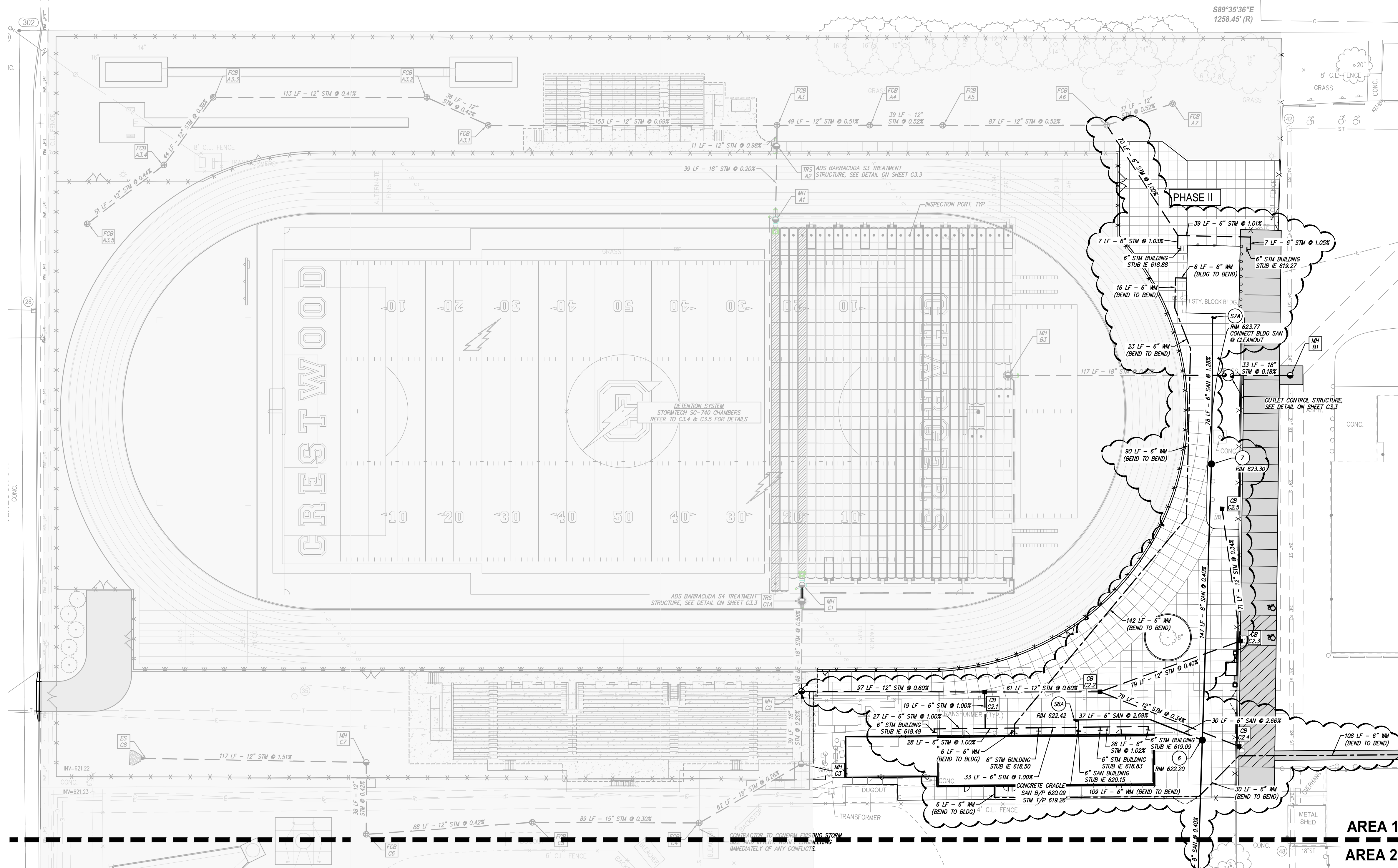


Crestwood School District
Crestwood High School
Site Improvements

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 (TSVM)
- PROPOSED SAN MANHOLE (SAN)
- PROPOSED STORM MANHOLE (SM)
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- PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER

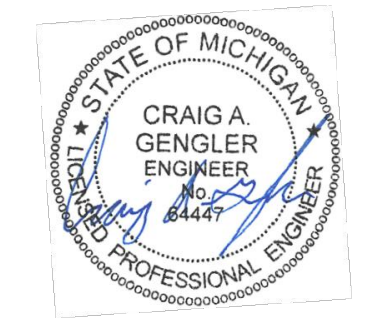
- STANDARD BITUMINOUS PAVEMENT
- HEAVY-DUTY BITUMINOUS PAVEMENT
- DEEP-STRENGTH BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- MILL PAVEMENT

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

- ### UTILITY NOTES
1. STORM SEWER 12" AND LARGER SHALL BE C76 CL IV (PREM.I.) UNLESS OTHERWISE NOTED ON THE PLAN.
 2. STORM SEWER 6" AND SMALLER SHALL BE PVC SDR 25.5. STORM SEWER GREATER THAN 6" THROUGH 10" SHALL BE PVC SDR 26.
 3. ALL UTILITY TRENCHES THAT FALL WITHIN A 1-ON-1 INFLUENCE OF PAVEMENT AREAS SHALL BE BACKFILLED WITH CLASS 2 SAND AND COMPACTED TO 95% OF MAXIMUM DENSITY.
 4. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS.
 5. ALL UTILITIES SHALL BE INSTALLED ON CLASS "B" BEDDING OR BETTER.
 6. ALL UTILITIES SHALL BE PLACED AT LEAST 10' FROM OTHER UTILITIES, SIGNIFICANT TREES, AND FIXED STRUCTURES.
 7. 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: PAVT. CATCH BASINS - E-JW 5105 - "M" (FRAMES WITH CURB BOXES WILL NOT BE ALLOWED) YARD CATCH BASINS - E-JW 1040 - "D2" MANHOLES - E-JW 1040 - "A"
 8. PLACEMENT OF EDGE DRAINS AND FINGER DRAINS AT ALL PAVEMENT CATCH BASINS IS REQUIRED. SEE STRUCTURE UNDERDRAIN DETAIL SHEET C-1X.
 9. FOR CURB CATCH BASINS, SEE BASIN LOCATION DETAIL FOR BASIN STAKING RELATIVE TO THE CURB.
 10. 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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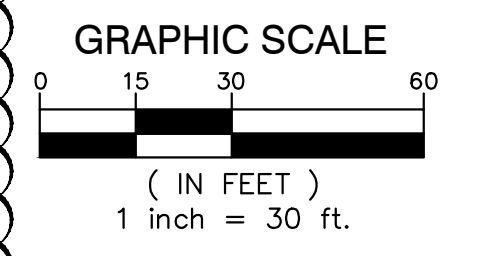
Addendum #3: 29 March 2023

Utility Plan - Area 1
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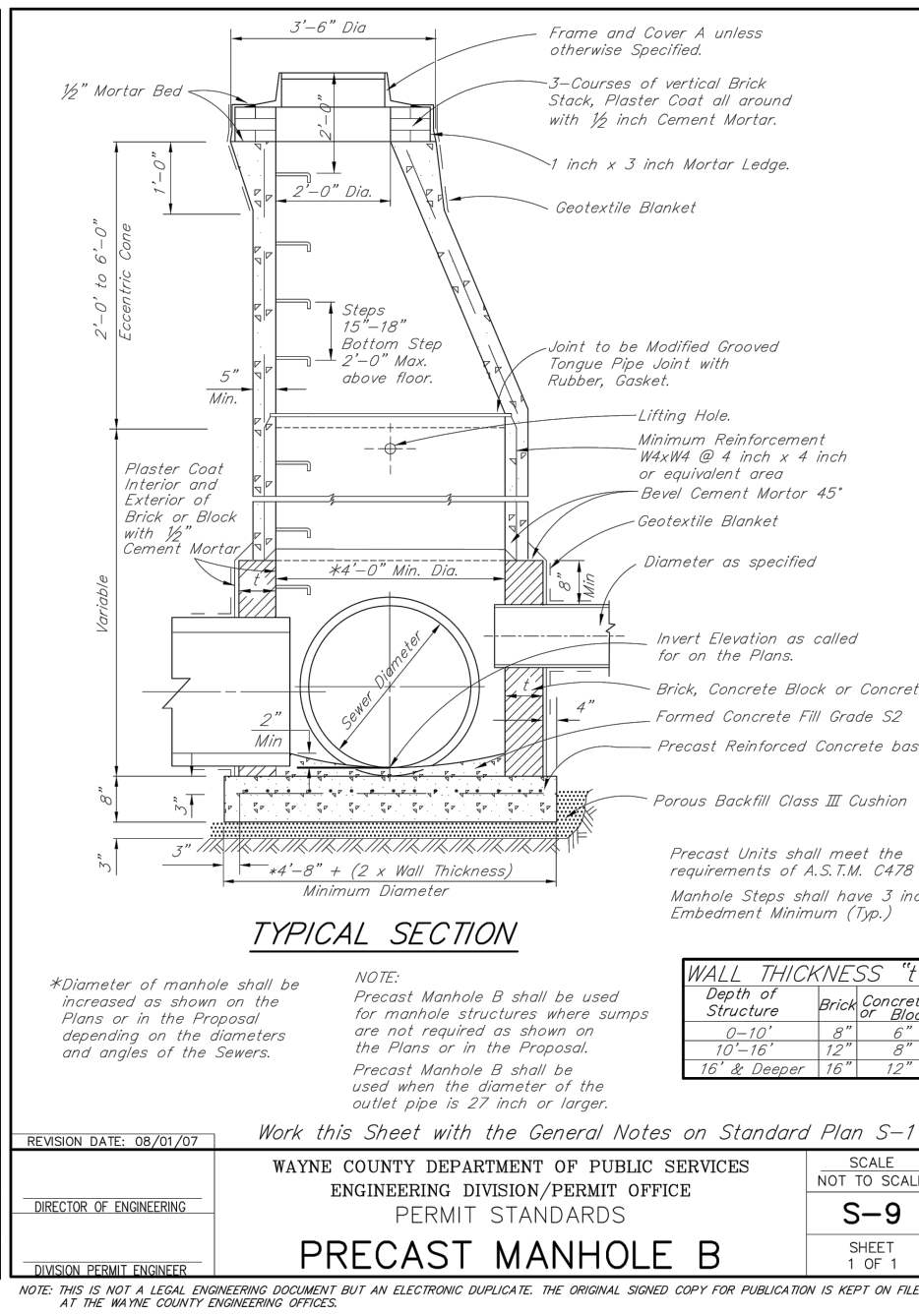
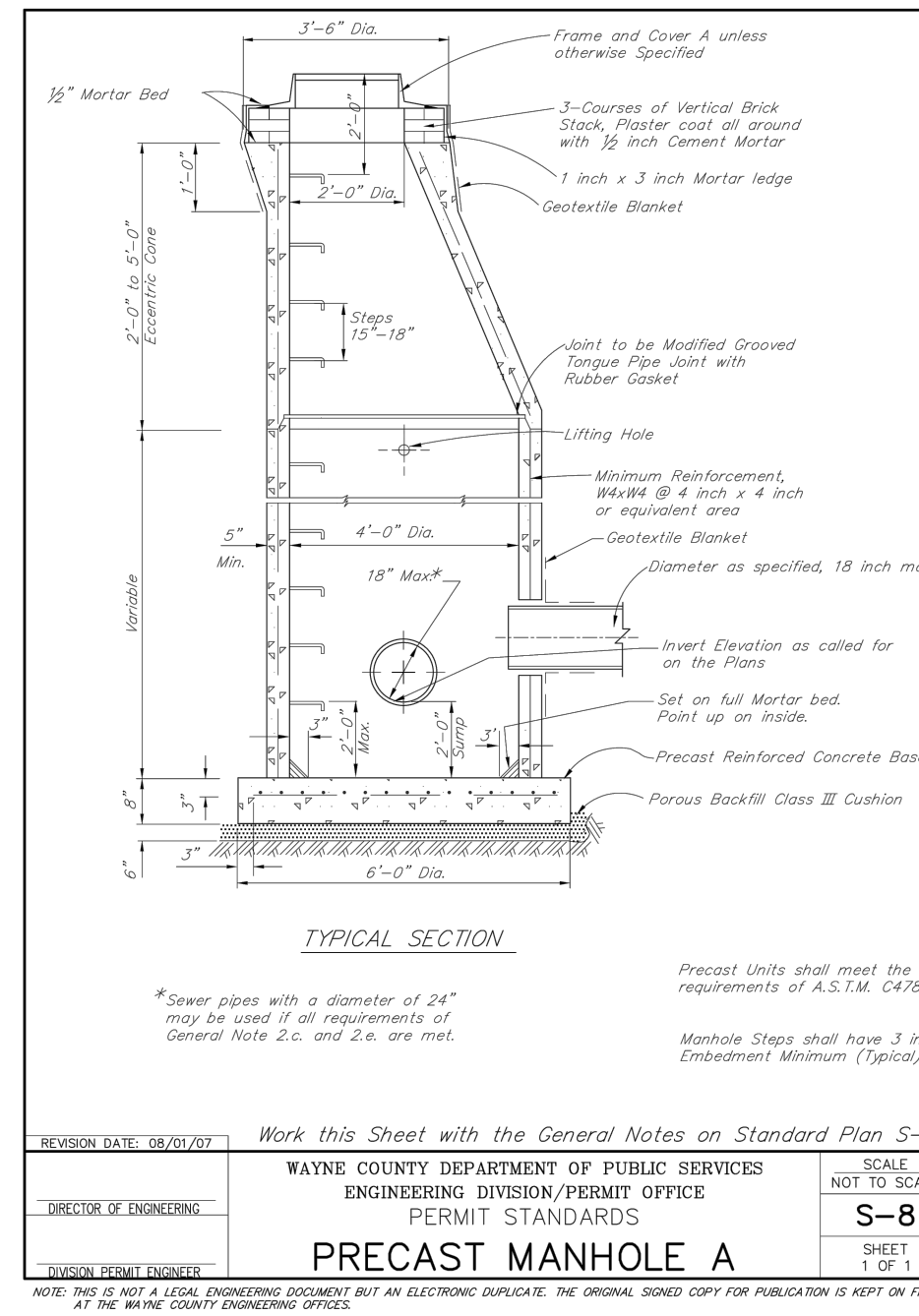
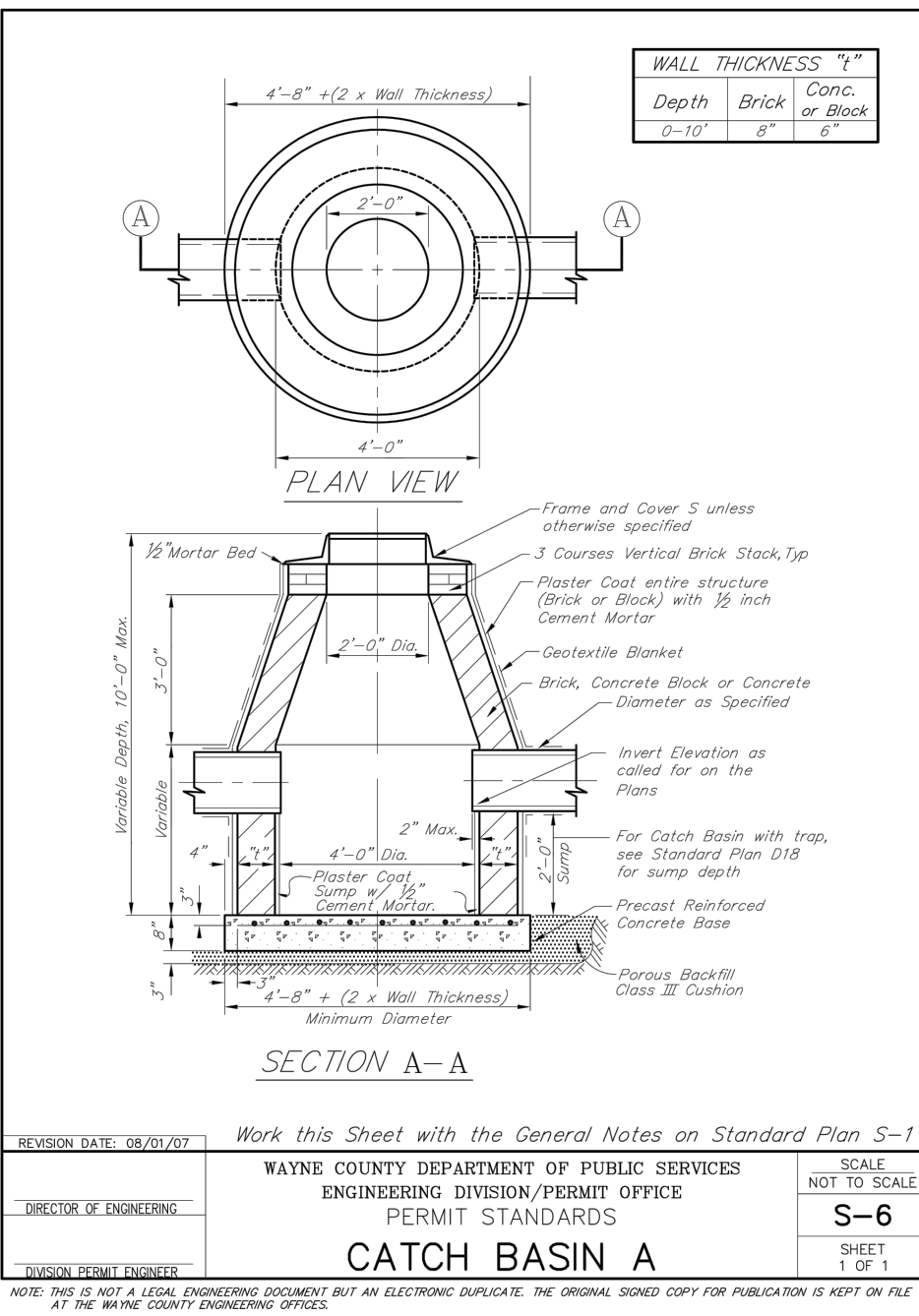
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 Crestwood High School
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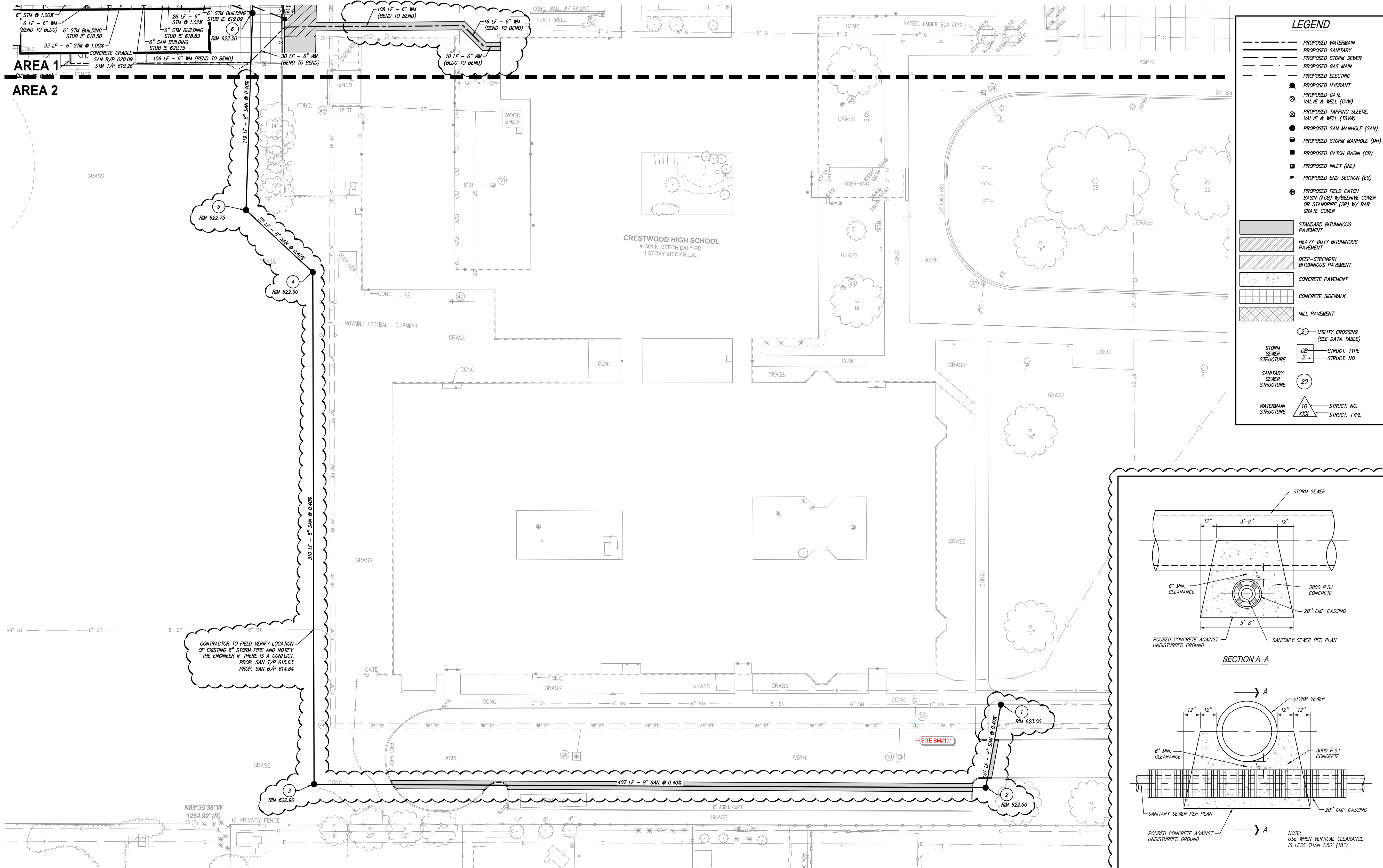
Project No. 2522 (SDA NP22067)

C3.1



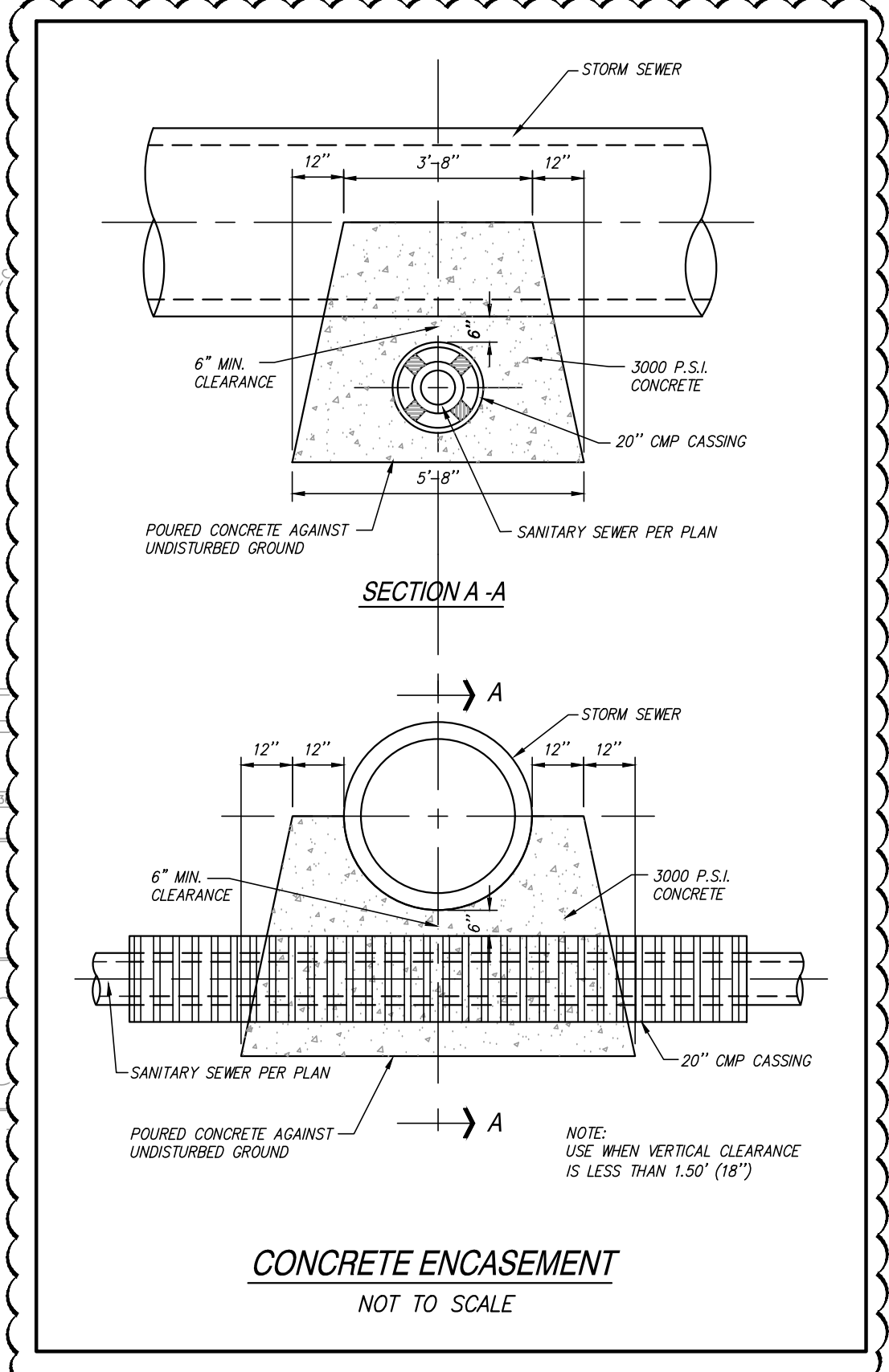
1. All materials and workmanship shall be in accordance with the Wayne County Specifications which are defined as the 2003 Michigan Department of Transportation (MDOT) Standard Specifications for Construction as modified by Wayne County Special Provisions.
2. The Contractor may construct manholes, catch basins and inlets, as detailed, with precast reinforced concrete units provided the following conditions are satisfied:
 - a. All precast sections shall be made in accordance with ASTM C-478 except that:
 - (1) The minimum wall thickness shall be 5 inches.
 - (2) The thickness of base and top slabs shall be as detailed on the Standard Plans.
 - b. 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.
 - c. 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.
 - d. 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.
 - e. Structures for sewers larger than 18 inches or those not meeting the opening requirements shall be built of brick or concrete. The opening around 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.
3. 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.
4. Special precast units for use on large diameter sewers must have the approval of the Engineer.
5. All vertical holes in concrete block structure wall shall be completely filled with mortar. All vertical wall joints shall be buttered.
6. The first pipe length entering or leaving any structure shall be temporarily supported by suitable means until the structure is completed and backfilled.
7. 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.
8. The conical section of brick or block manholes, catch basins or inlets, shall be stroued with a geotextile blanket from the top down to 1 foot below the conical section. Precast structures shall be stroued 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 coping. Also, wrap inlet and outlet pipes of 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.
9. A 10 foot length of 6 inch Underdrain in Sewer Trench will be required of proposed drainage structure that do not have longer lengths of underdrain connected to them (See Standard Plan S-14). The cost of these 10 foot lengths of underdrain with end caps shall be included in the cost of the drainage structure.
10. 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 lbs. The minimum vertical load shall be 810 lbs.





LEGEND

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- SANITARY SEWER STRUCTURE
- WATERMAIN STRUCTURE
- STRUCT. TYPE
- STRUCT. NO.

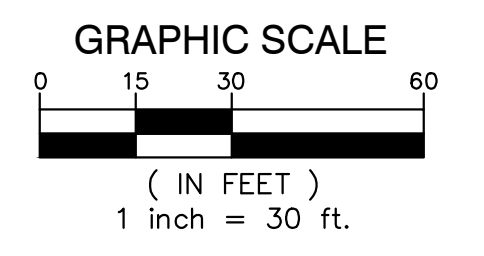
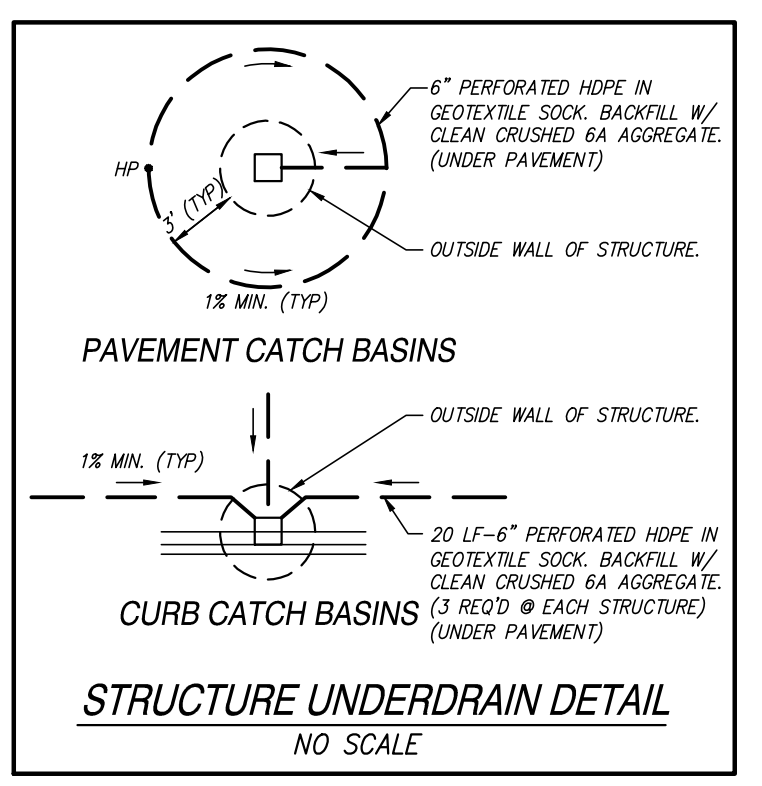
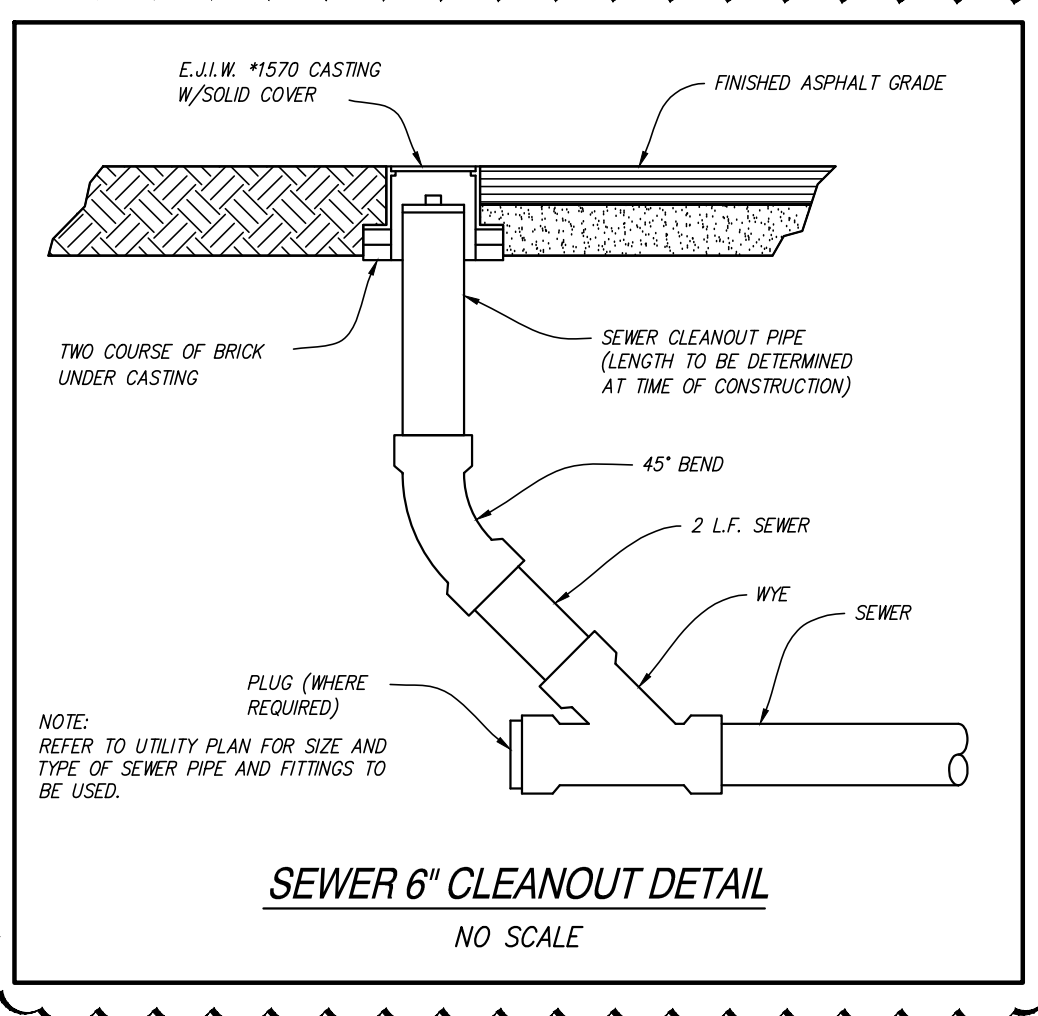


STORM STRUCTURE SCHEDULE

STR. NO.	TYPE	RIM ELEV.	INV. ELEV.	INV. DIR.	INVERT	IN/OUT
C2	4" DIA MANHOLE	623.40	18" 616.93"	N	616.93"	In
			18" 616.93"	E	617.33"	Out
C2.1	4" DIA CATCH BASIN	623.25	6" 618.01"	S	618.01"	In
			12" 617.91"	E	618.01"	Out
C2.2	4" DIA CATCH BASIN	623.25	12" 618.38"	E	618.38"	In
			12" 618.38"	W	618.69"	Out
C2.3	4" DIA CATCH BASIN	622.38	12" 618.79"	N	618.79"	In
C2.4	4" DIA CATCH BASIN	622.36	12" 618.65"	W	618.65"	Out
C2.5	4" DIA FIELD CATCH BASIN	622.50	12" 618.55"	S	618.55"	Out

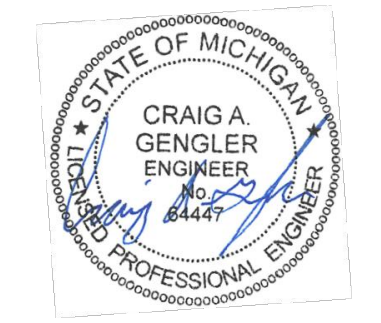
SANITARY STRUCTURE SCHEDULE

STR. NO.	TYPE	RIM ELEV.	INV. ELEV.	INV. DIR.	INVERT	IN/OUT
1	4" DIA MANHOLE	623.00	8" 612.50"	S	612.50"	In
2	4" DIA MANHOLE	622.50	8" 612.80"	W	612.70"	Out
3	4" DIA MANHOLE	622.90	8" 614.53"	N	614.43"	Out
			8" 614.43"	E	614.43"	Out
4	4" DIA MANHOLE	622.90	8" 615.87"	NW	615.77"	In
			8" 615.77"	SE	616.09"	Out
5	4" DIA MANHOLE	622.75	8" 616.19"	N	616.19"	In
			8" 616.19"	SE	616.09"	Out
6	4" DIA MANHOLE	622.20	8" 616.77"	S	616.67"	In
			8" 616.67"	W	618.17"	Out
7	4" DIA MANHOLE	623.30	6" 618.80"	S	618.80"	In
			6" 617.35"	N	617.35"	Out
S6A	CLEANOUT	622.42	6" 620.04"	E	620.04"	Out
S7A	CLEANOUT	623.77	6" 619.80"	S	619.80"	Out



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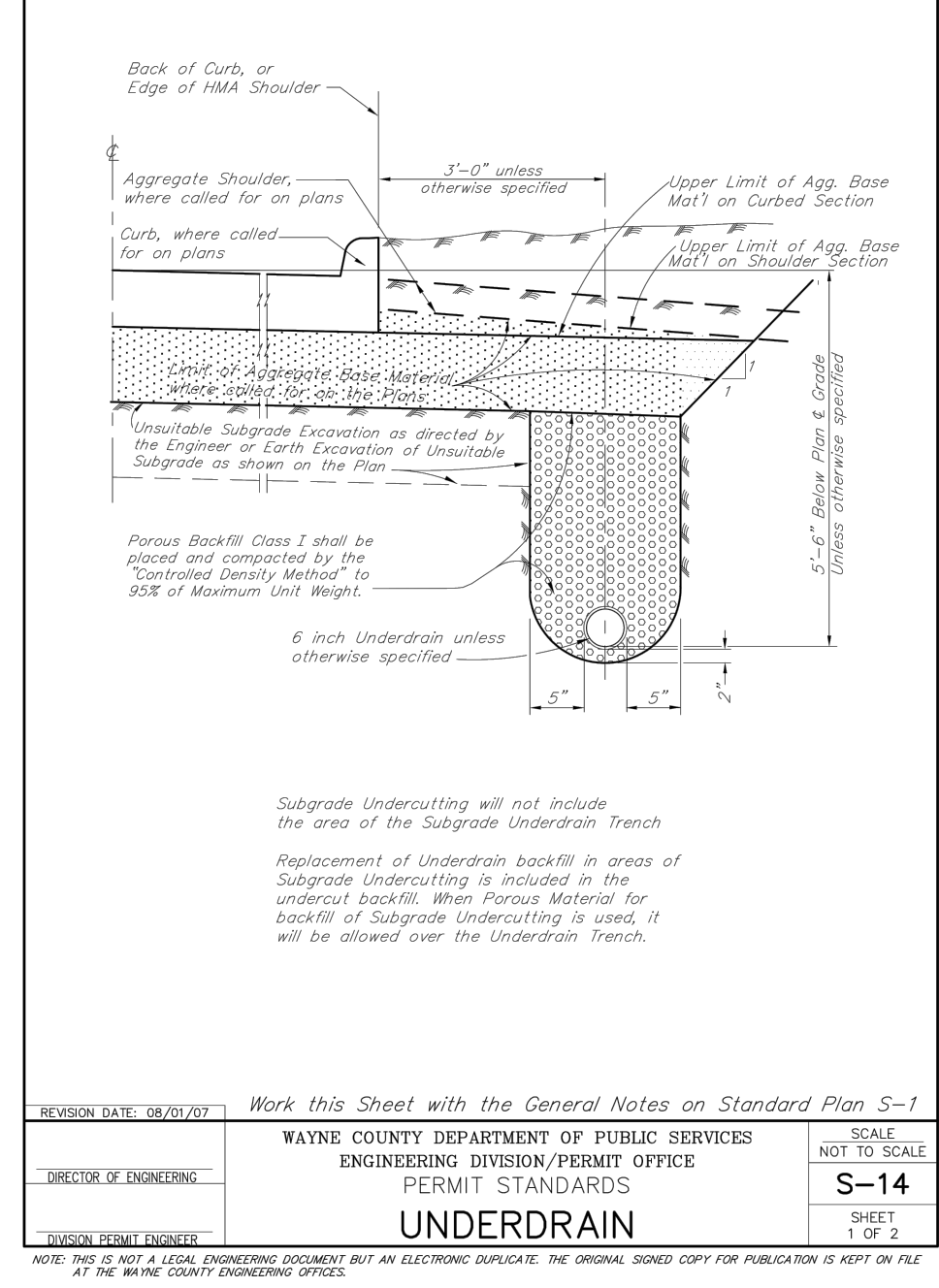
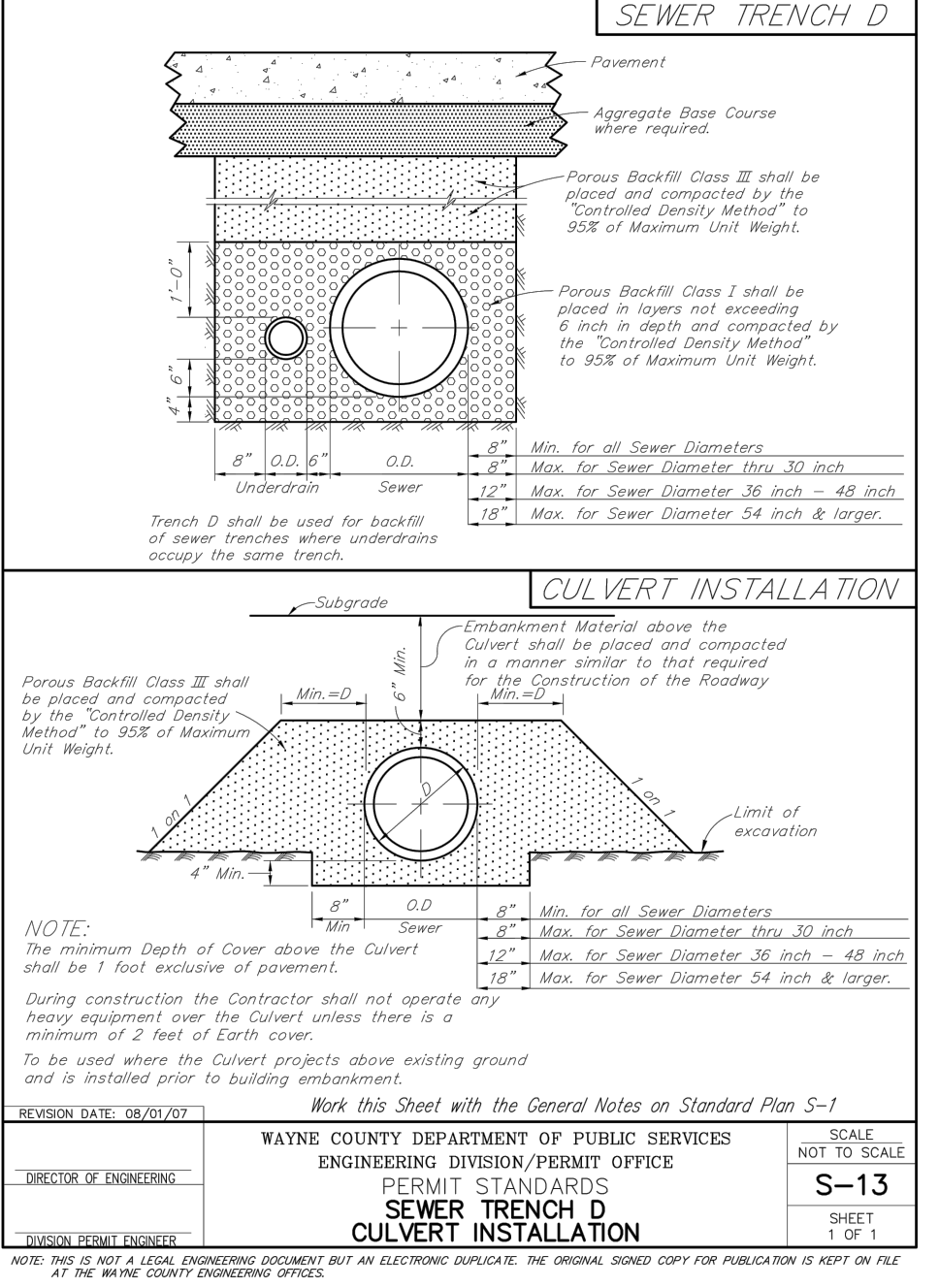
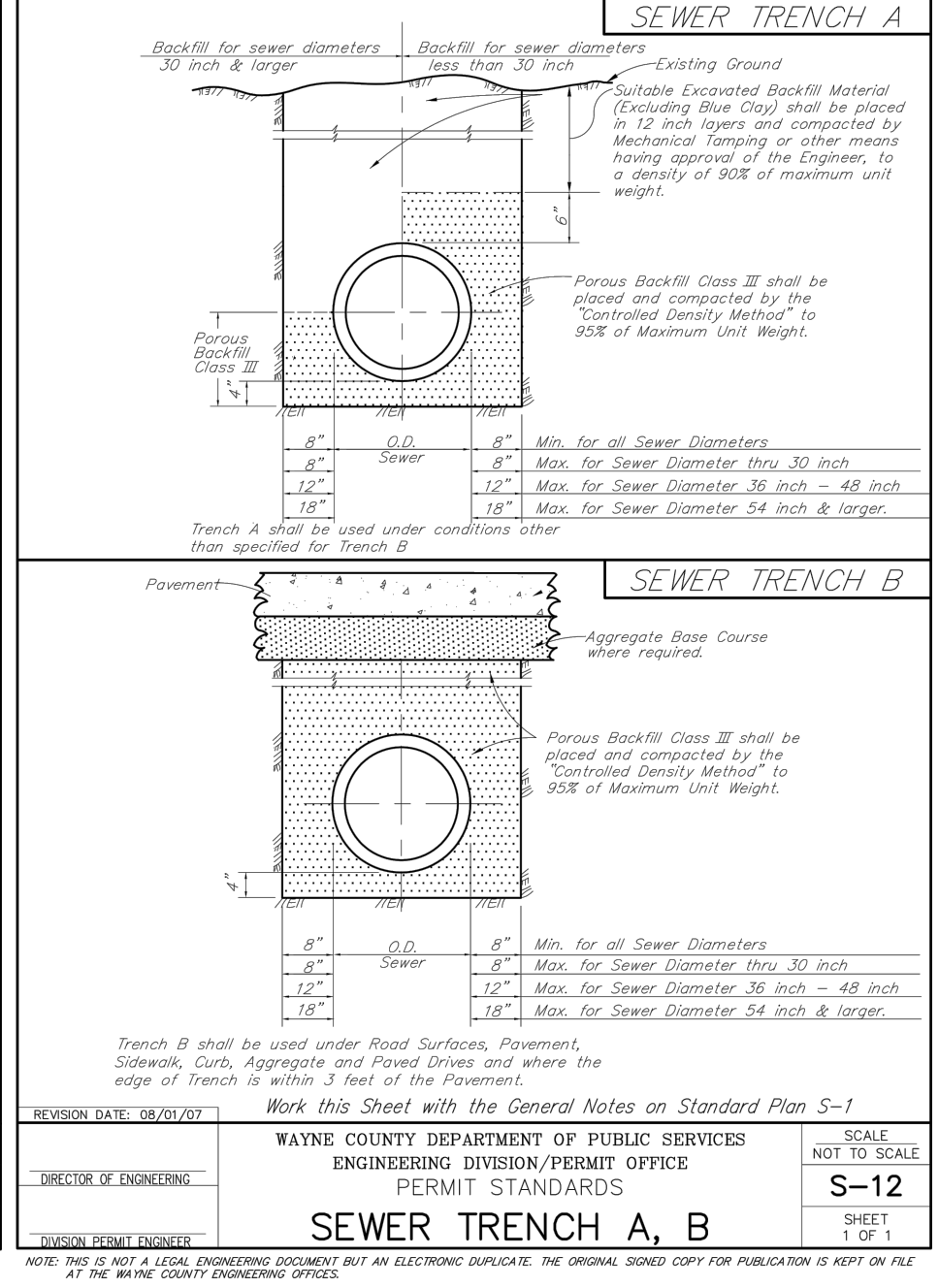
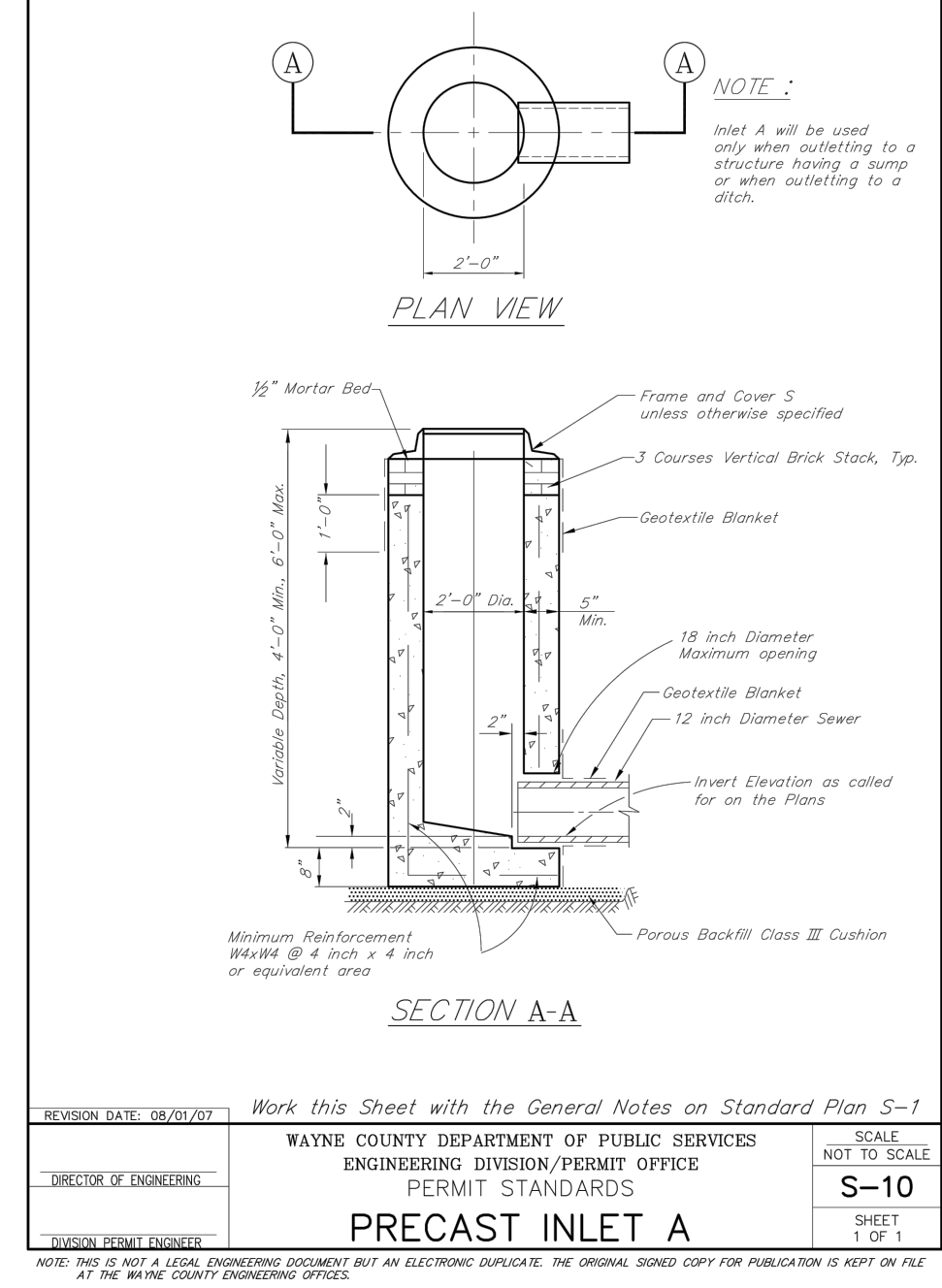
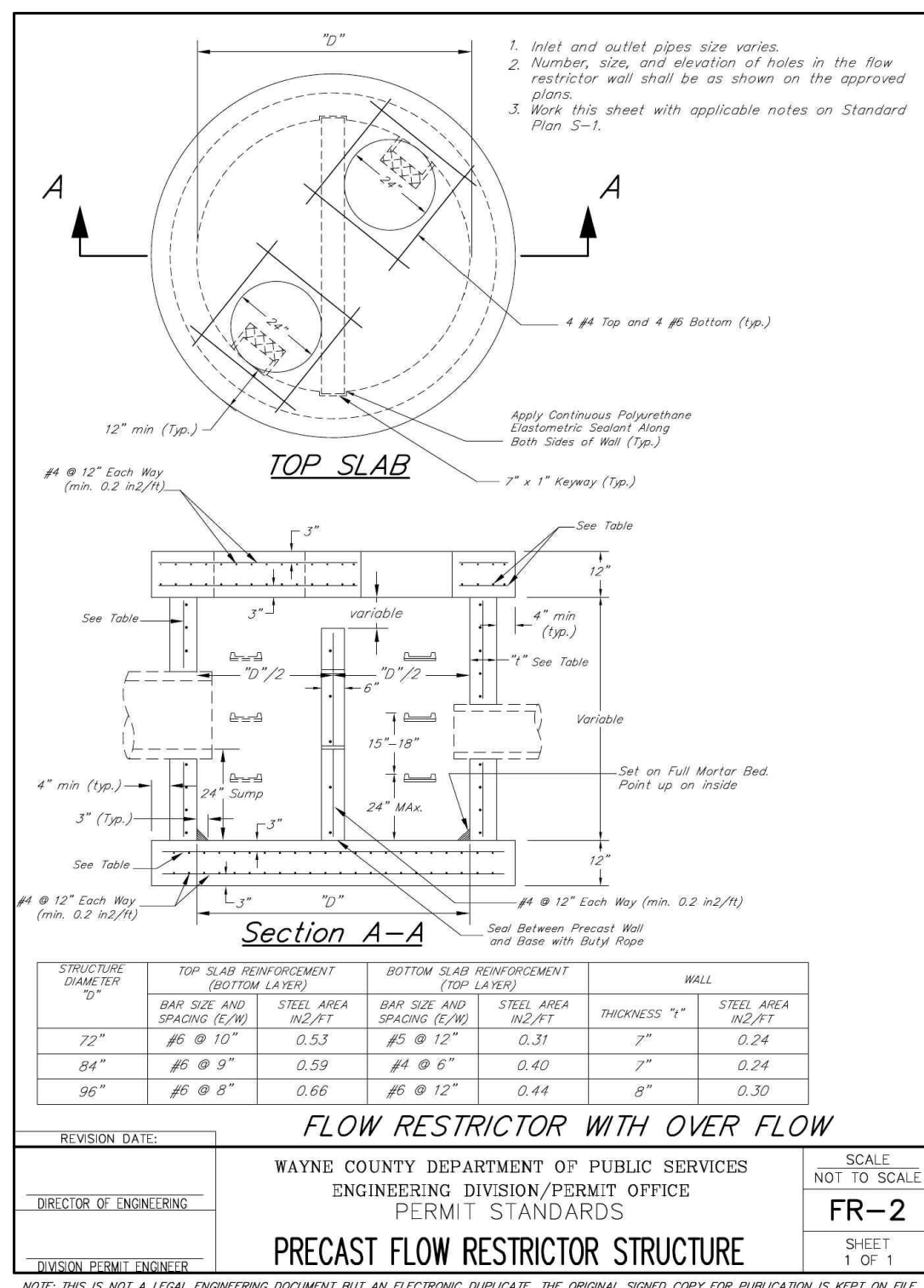
Addendum #3: 29 March 2023

Utility Plan - Area 2
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Crestwood School District
Crestwood High School
Site Improvements

Project No. 2522 [SDA NP22067]

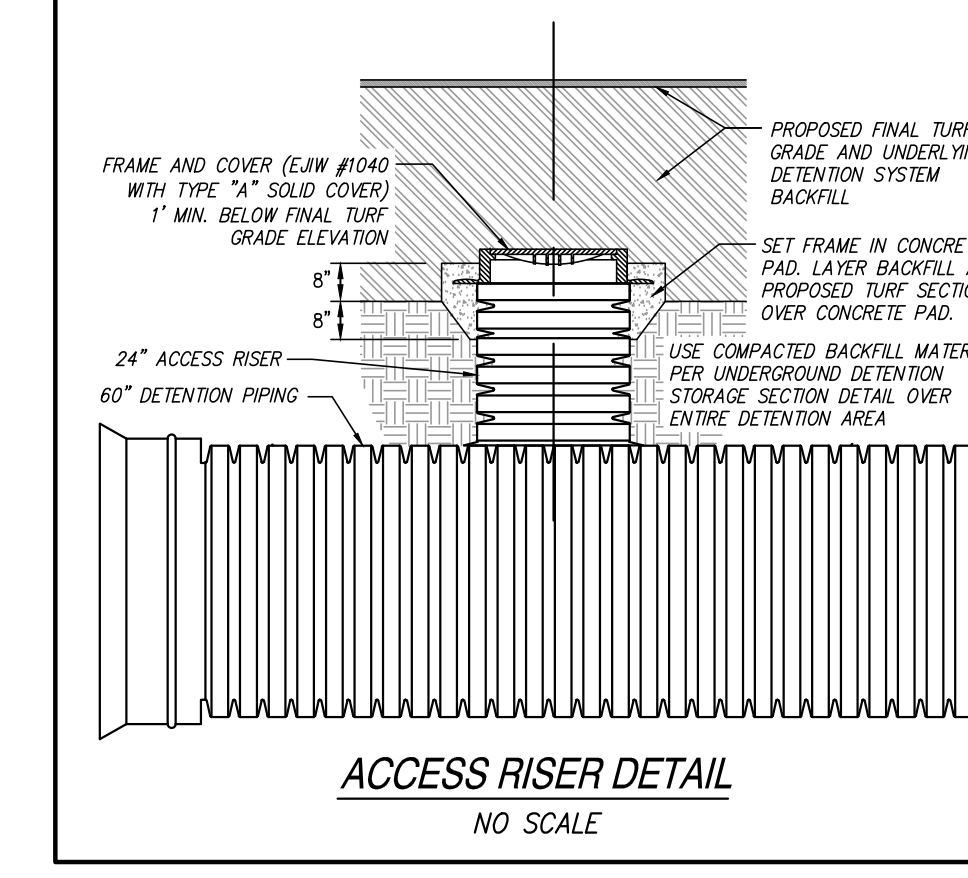
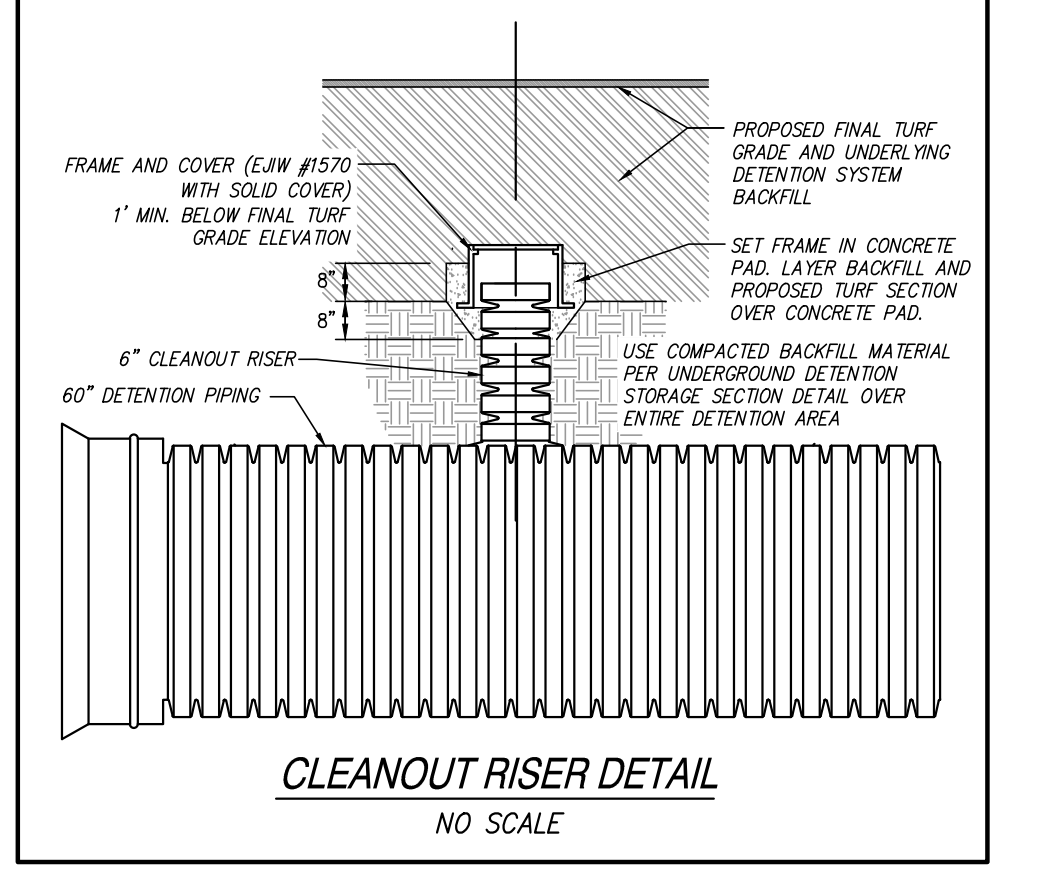
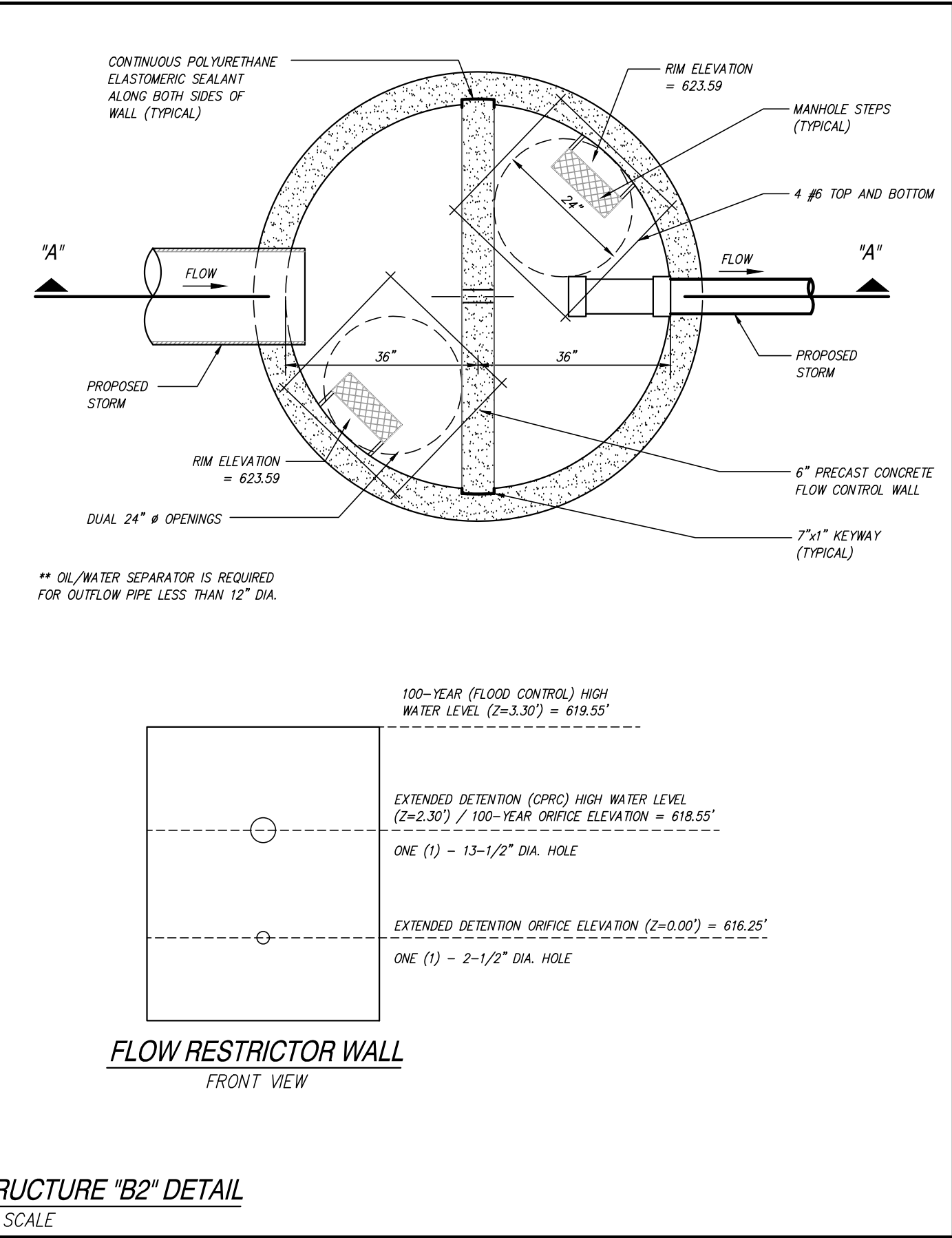
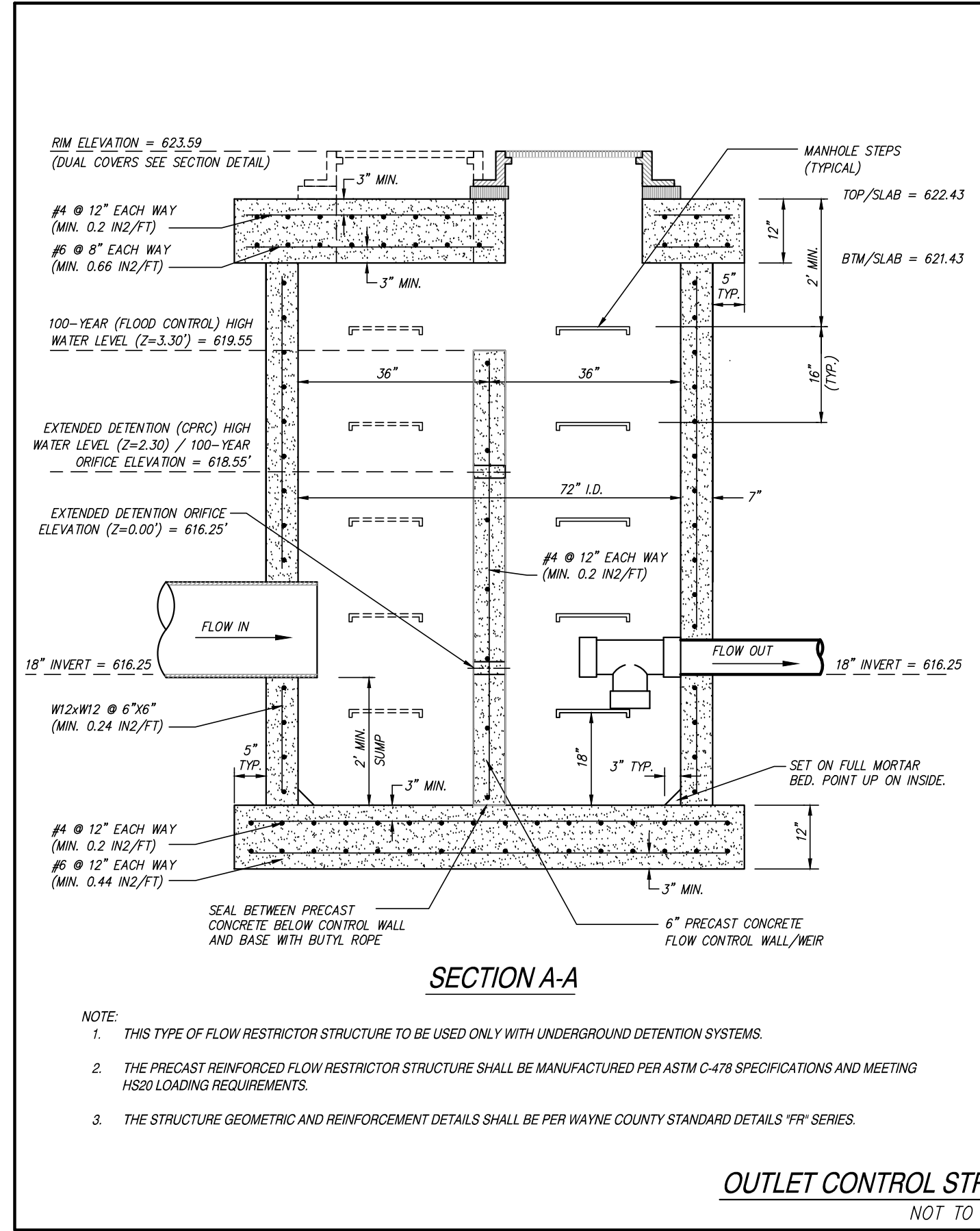
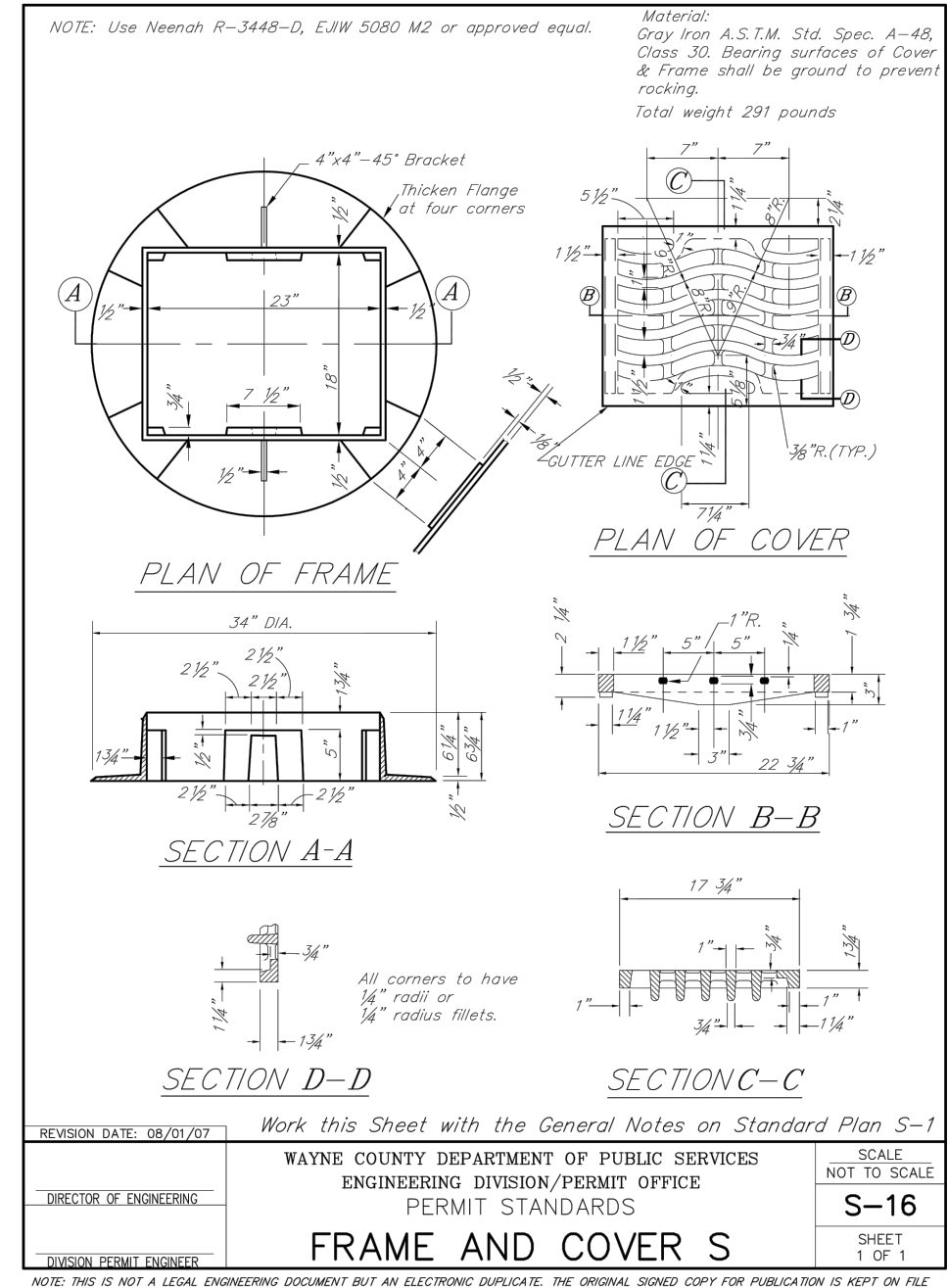
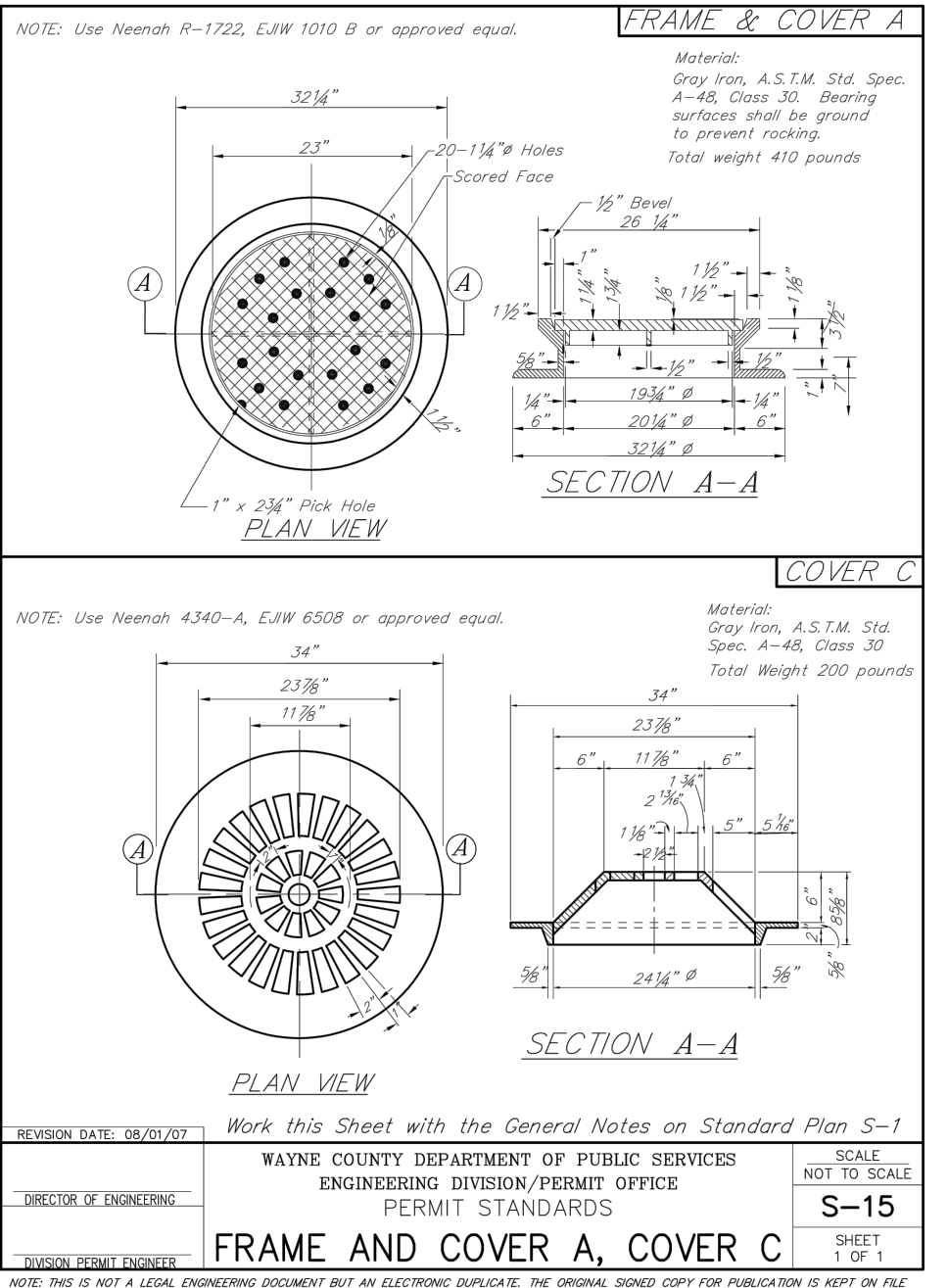
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WAYNE COUNTY STORM WATER MANAGEMENT SYSTEM NOTE

THE MANUFACTURER OF THE OUTLET CONTROL STRUCTURE AND MECHANICAL SEPARATOR MUST CONTACT THE WAYNE COUNTY TESTING OFFICE AT (248) 858-2778 AT LEAST 2 WORKING DAYS PRIOR TO FABRICATION TO SCHEDULE FOR INSPECTION DURING MATERIAL FABRICATION.

PRIOR TO INSTALLATION, STORM WATER MANAGEMENT SYSTEM COMPONENTS SHALL BE TESTED AND APPROVED BY WAYNE COUNTY TESTING OFFICE, AND OBSERVED DURING INSTALLATION BY WAYNE COUNTY ENGINEER.



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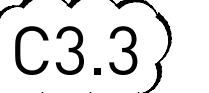
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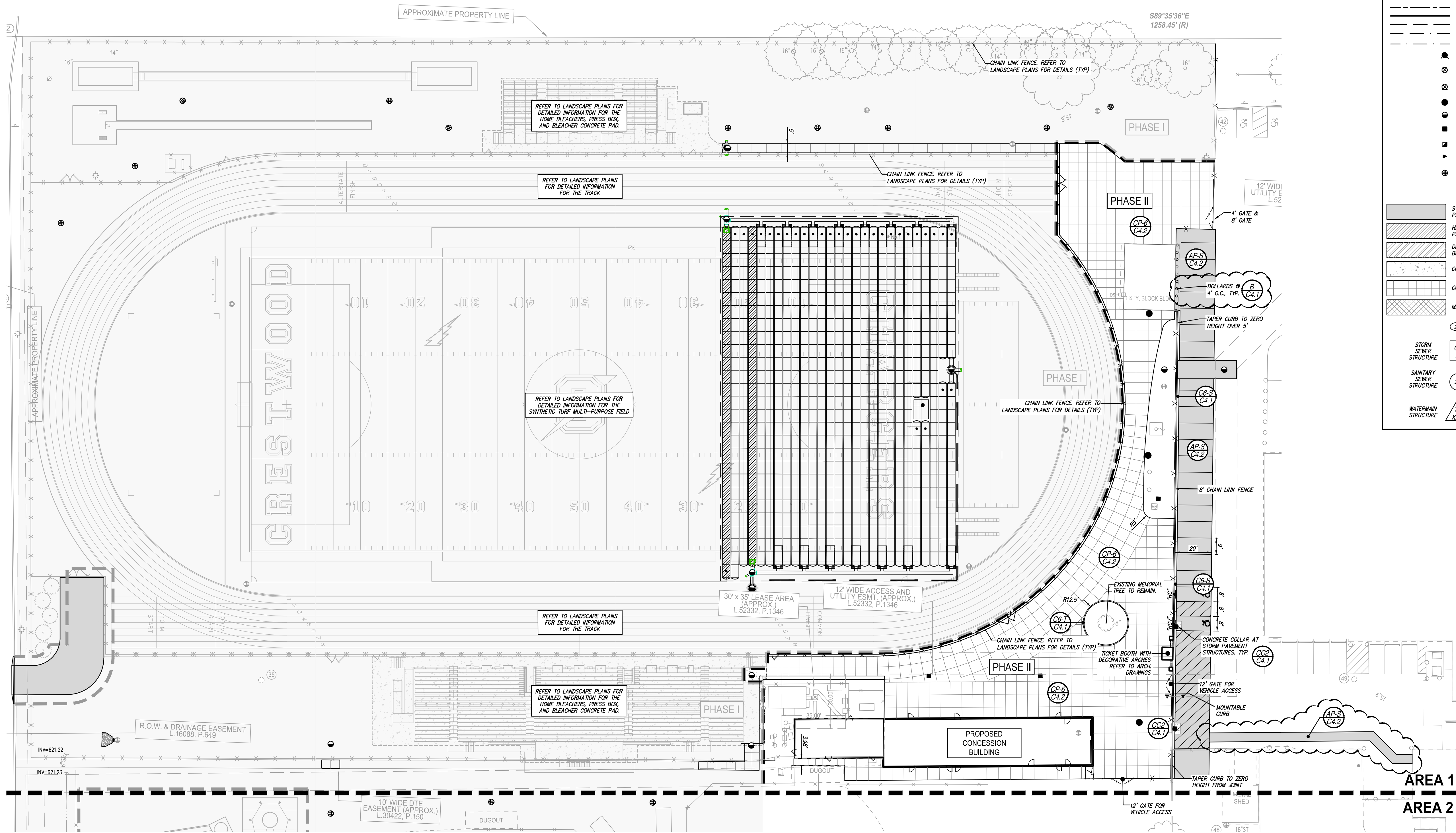


Utility Details
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Crestwood High School
Site Improvements

Project No. 2522 [SDA NP22067]





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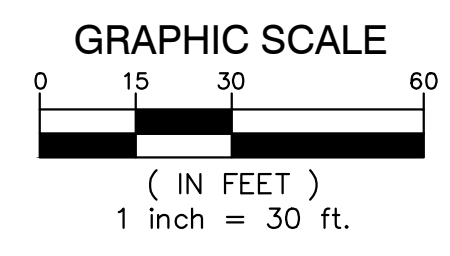
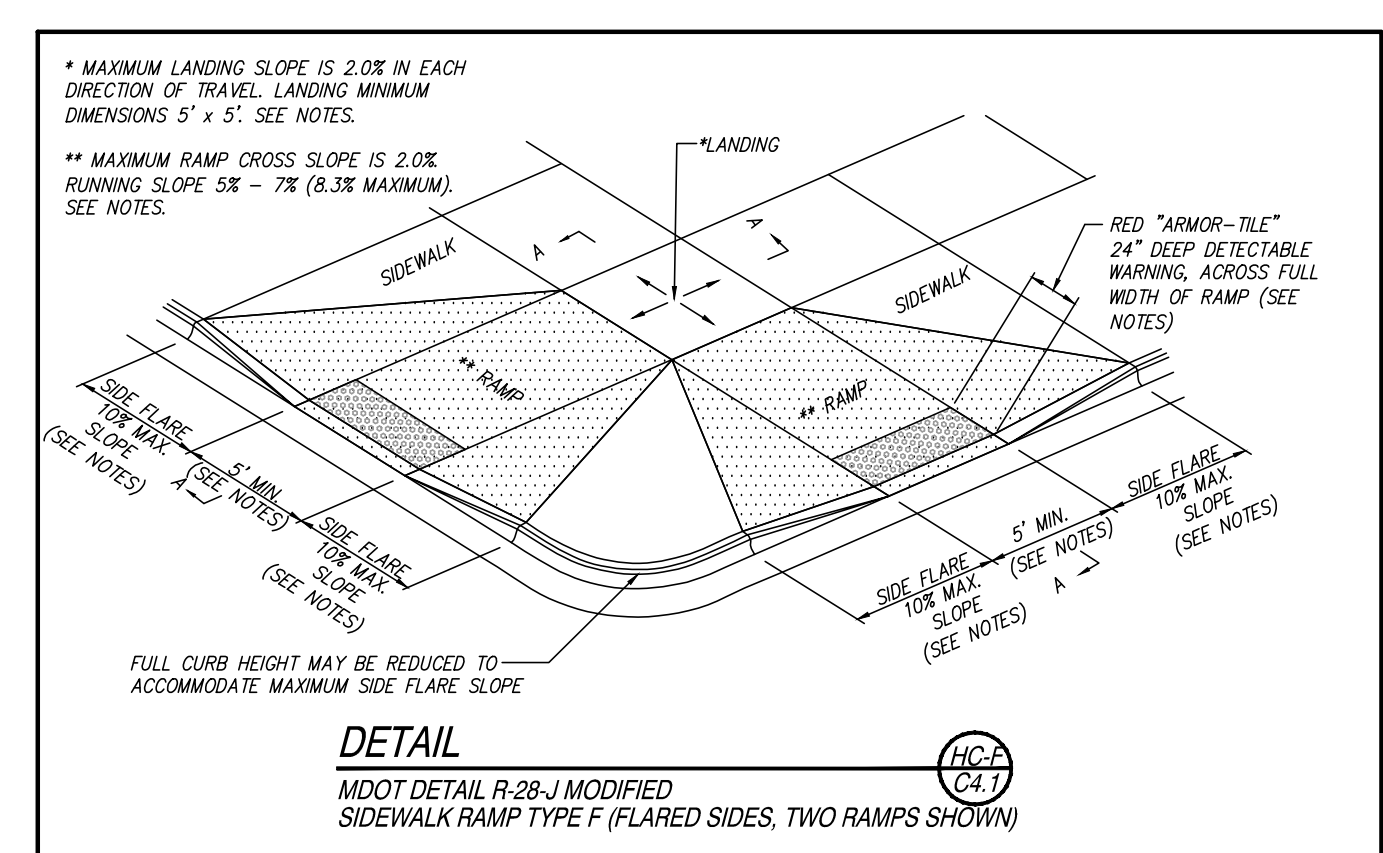
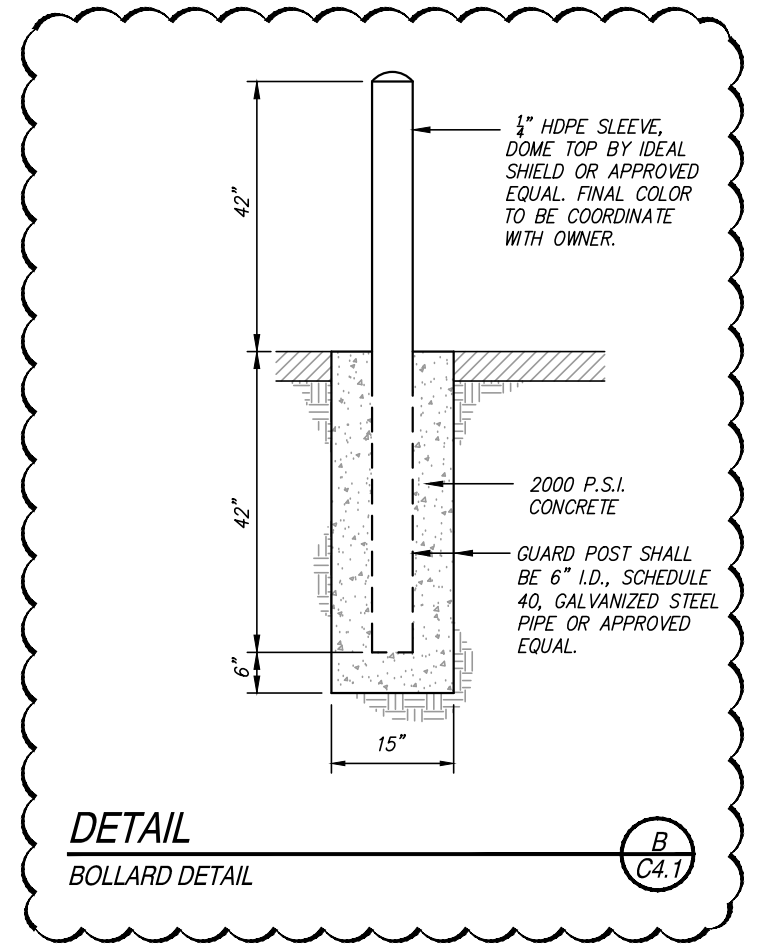
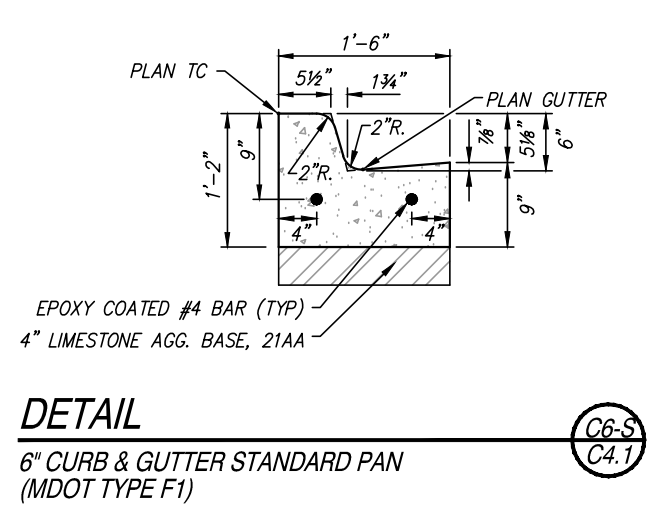
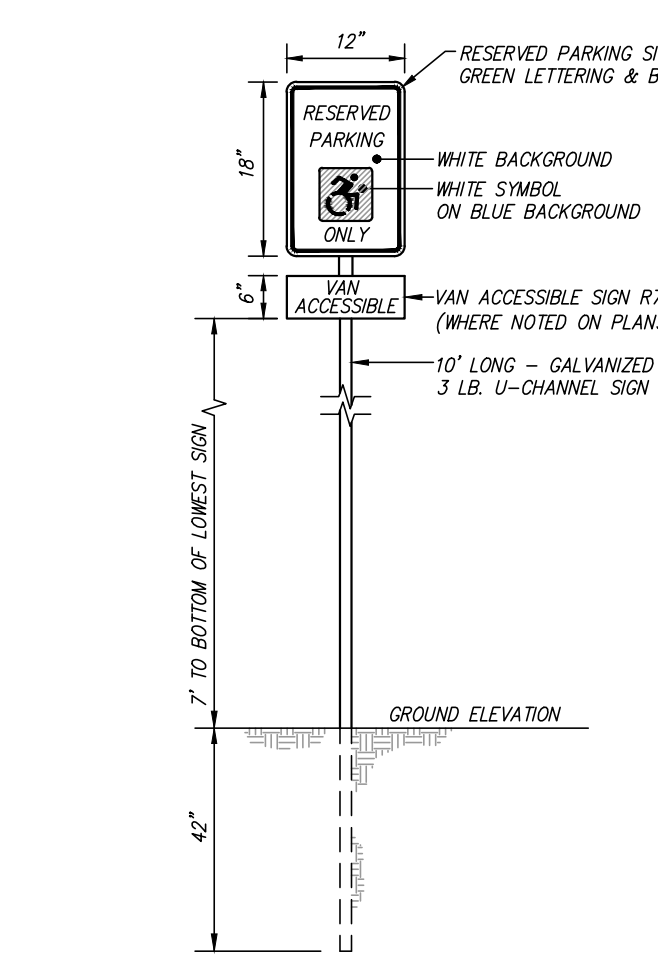
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Addendum #3: 29 March 2023



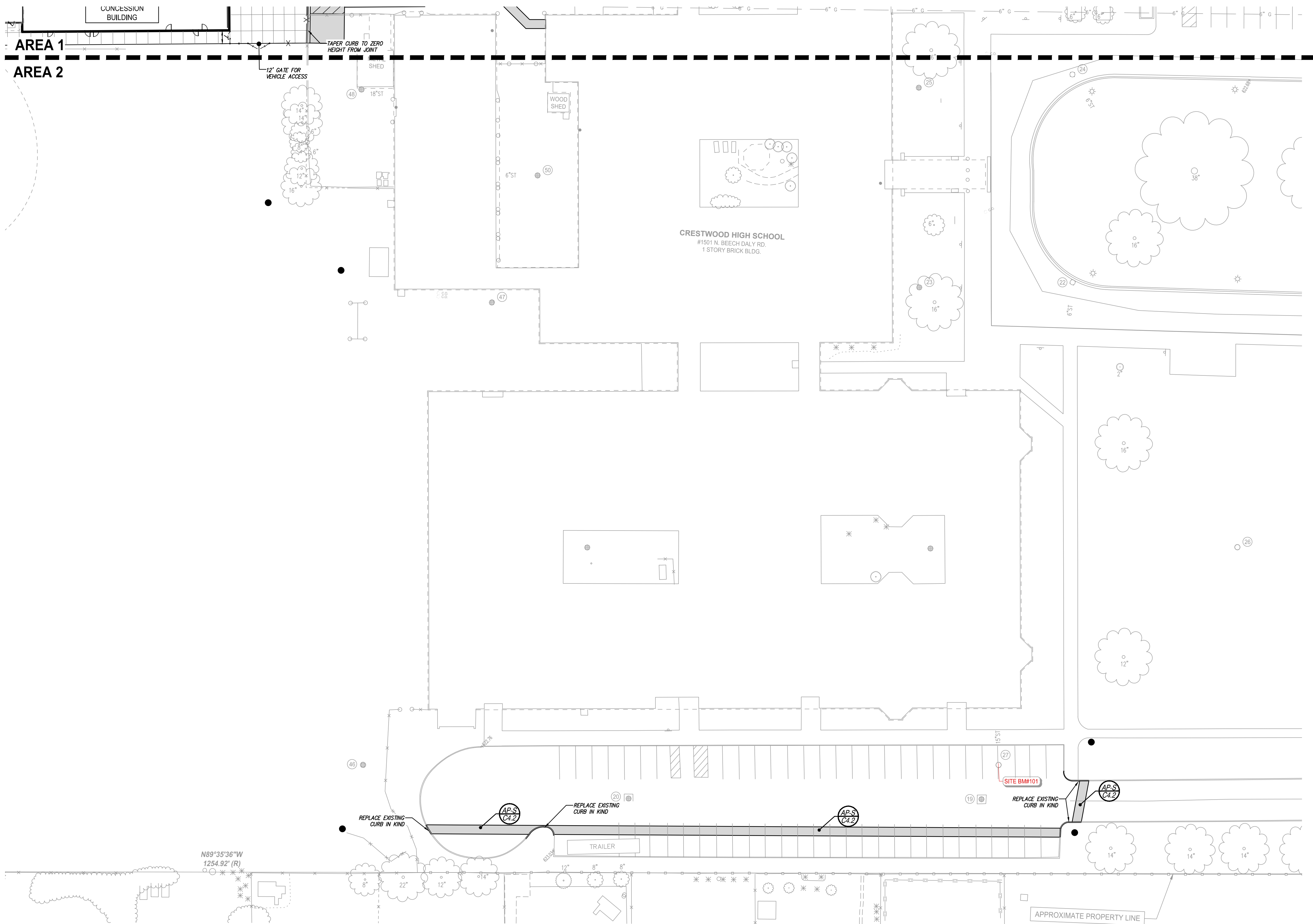
Paving and Layout Plan - Area 1



Crestwood School District
 Crestwood High School
 Site Improvements

Project No. 2522 [SDA NP22067]

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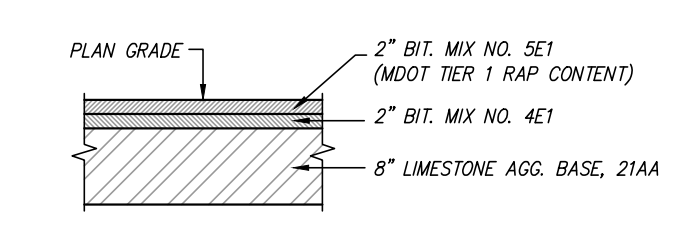


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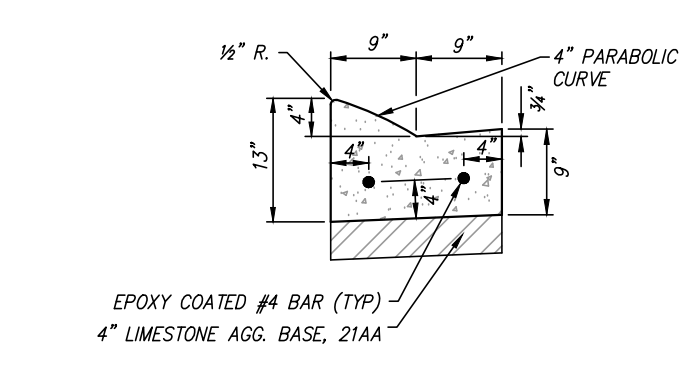
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- PROPOSED SAN MANHOLE (SAN)
- ⊙ PROPOSED STORM MANHOLE (SM)
- PROPOSED CATCH BASIN (CB)
- PROPOSED INLET (INL)
- ▶ PROPOSED END SECTION (ES)
- ⊙ PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER

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

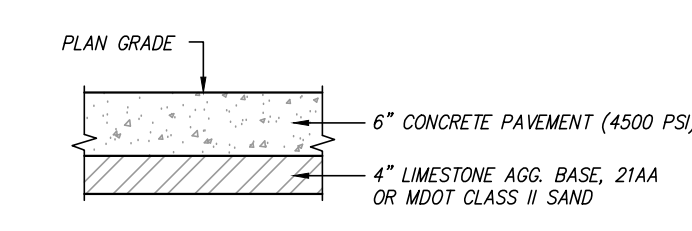
- ② UTILITY CROSSING (SEE DATA TABLE)
- CB-2 STRUCT. TYPE
2 STRUCT. NO.
- 20 SANITARY SEWER STRUCTURE
- 10/XXX WATERMAIN STRUCTURE
10 STRUCT. NO.
XXX STRUCT. TYPE



DETAIL
STANDARD BITUMINOUS PAVEMENT



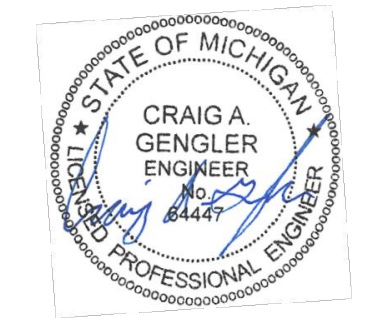
DETAIL
4\"/>



DETAIL
6\"/>



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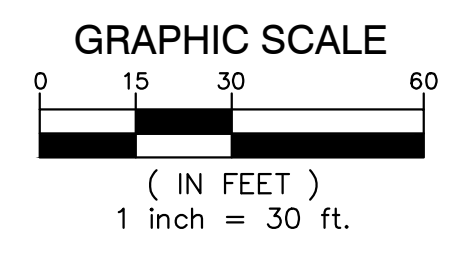
Paving and Layout Plan – Area 2

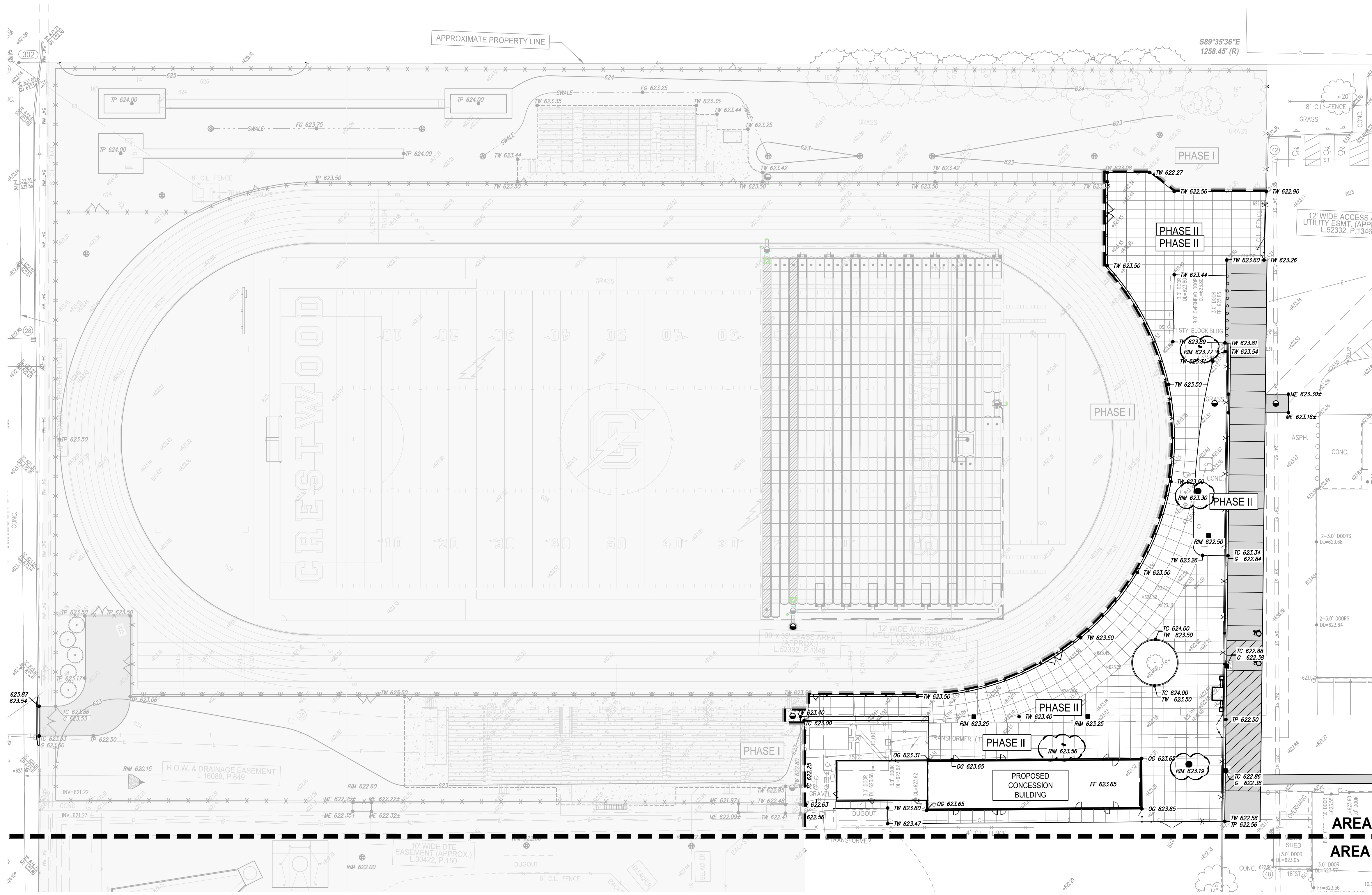


Crestwood School District
Crestwood High School
Site Improvements

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. TYPE
⊗	STRUCT. NO.

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

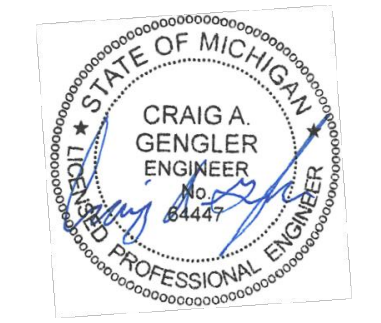
- GRADING NOTES**
- CONTRACTOR TO PLACE ALL NEW PAVEMENT TO THE GRADES INDICATED OR MATCH ORIGINAL GRADES IF NEW GRADES ARE NOT SHOWN. CONTRACTOR SHALL CONFIRM MINIMUM 1% PAVEMENT SLOPES ARE ATTAINED IN ALL AREAS.
 - PROPOSED GRADES MAY BE BASED ON AN INTERPOLATION OF DATA SHOWN ON THE TOPOGRAPHIC SURVEY. 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 AISLES) 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. 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 RED FESCUE). PLACE MULCH IN ALL SEEDING AREAS. ON SLOPES IN EXCESS OF 10% HORIZONTAL TO 1 VERTICAL PLACE NORTH AMERICAN GREEN 3050 MULCH BLANKET IMMEDIATELY AFTER SEEDING. USE METAL STAPLES PER MANUFACTURER'S RECOMMENDATIONS TO HOLD MATTING IN PLACE.



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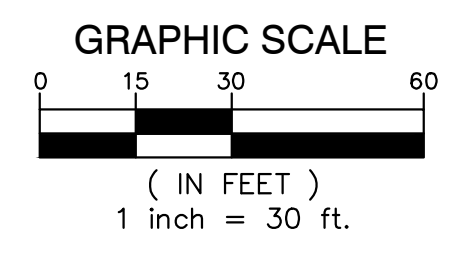
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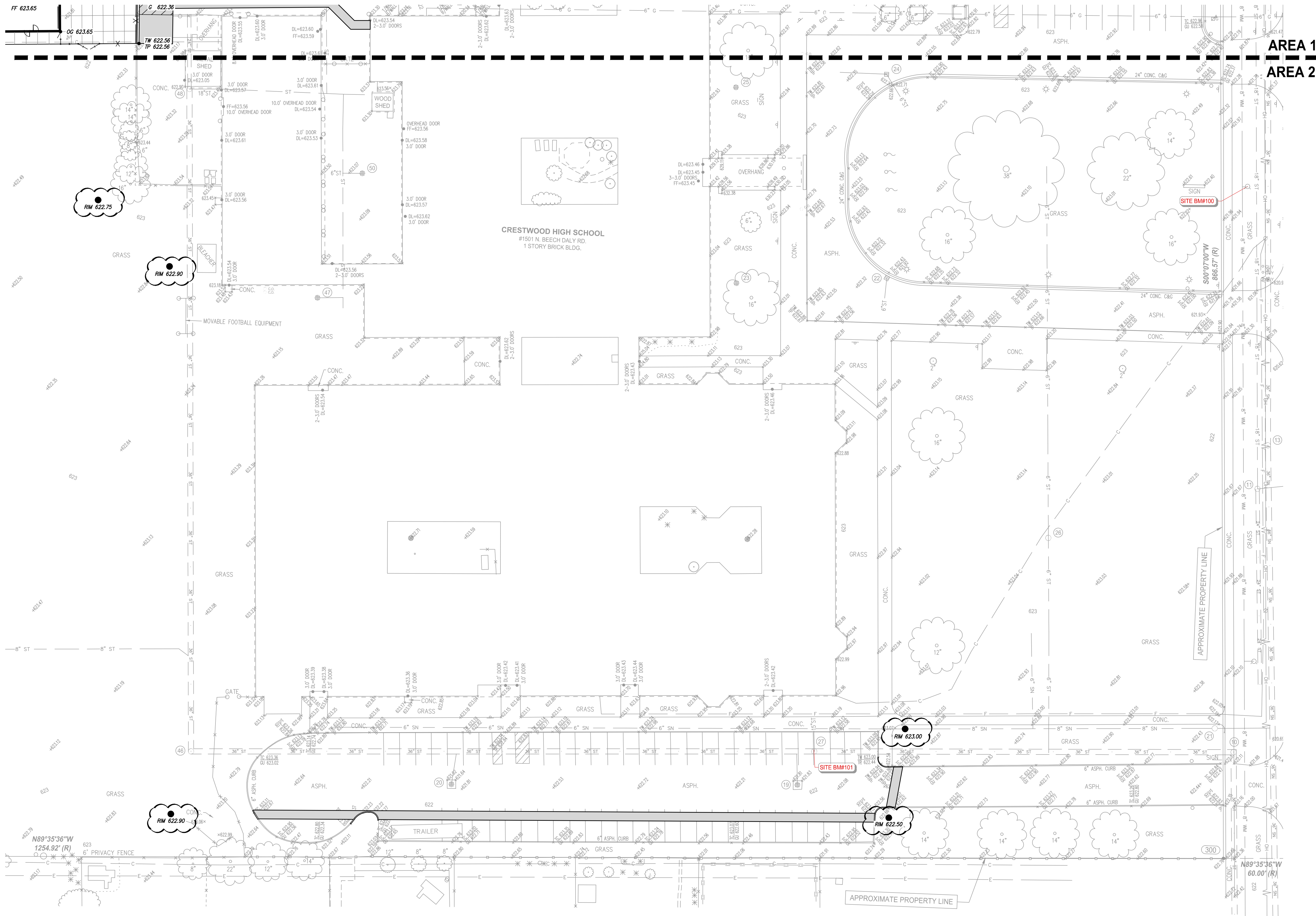


Crestwood School District
Crestwood High School
Site Improvements

Project No. 2522 [SDA NP22067]

C5.1





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)
- PROPOSED INLET (INL)
- ▶ PROPOSED END SECTION (ES)
- PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER

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 [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)
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 [Symbol] SANITARY SEWER STRUCTURE
 [Symbol] WATERMAIN STRUCTURE

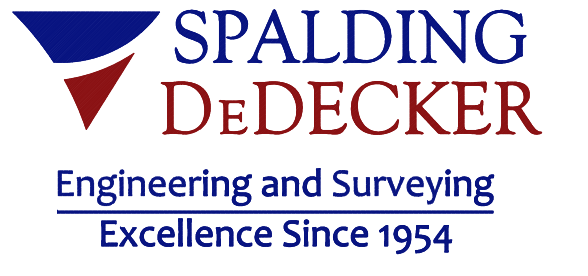
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 [Symbol] STRUCT. NO.
 [Symbol] STRUCT. TYPE

GRADING LEGEND

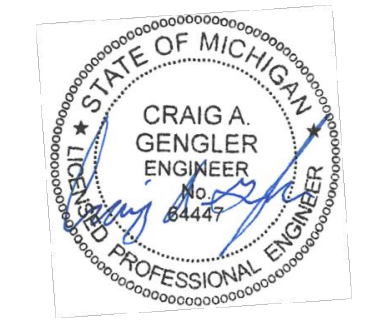
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 [Symbol] PROPOSED GUTTER ELEVATION
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[Symbol] EXISTING CONTOURS
 [Symbol] PROPOSED CONTOURS

[Symbol] TOP OF PAVEMENT ELEVATION
 [Symbol] TOP OF WALK ELEVATION
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Addendum #3: 29 March 2023

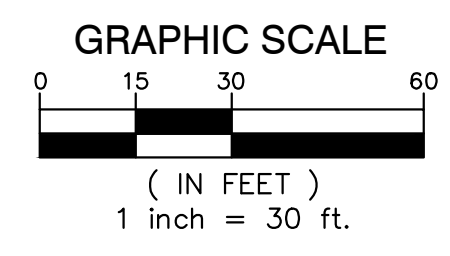
Grading Plan - Area 2

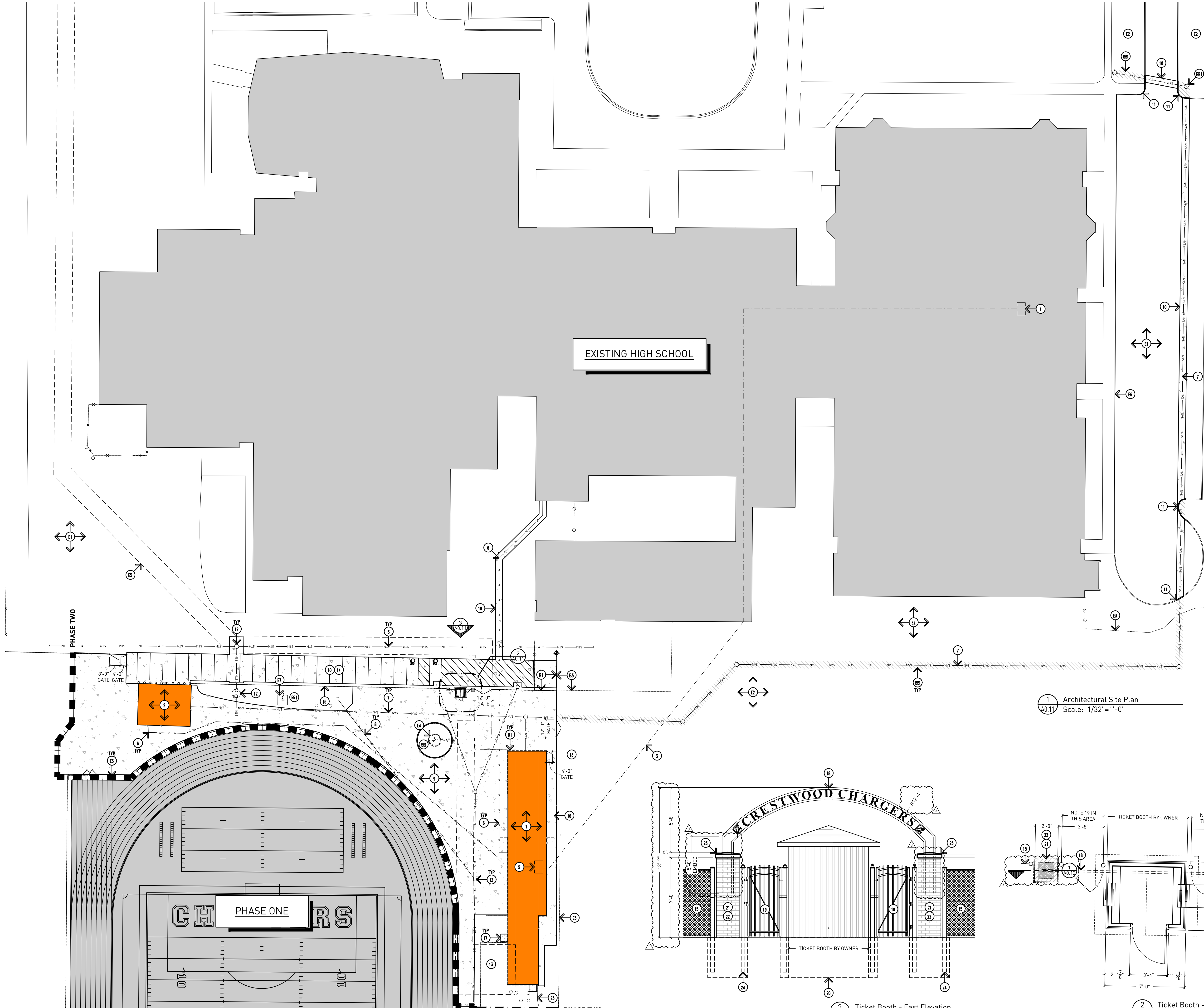


Crestwood School District
 Crestwood High School
 Site Improvements

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" ALUMINUM ARCH - CONTRACTOR TO VERIFY FINAL LOGO LAYOUT WITH OWNER PRIOR TO MANUFACTURING, 2" x 2" ALUMINUM TUBE WITH 9" HIGH x 1/4" THICK ALUMINUM LETTERS - WELDED CONSTRUCTION WITH ACRYLIC POLYURETHANE ENAMEL FINISH, COLOR AS SELECTED.
 19. ORNAMENTAL ALUMINUM 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. BRICK AND GROUTED CMU PIER FOR SUPPORT OF ALUMINUM ARCH.
 23. LIMESTONE CAP WITH OPENINGS FOR ALUMINUM ARCH SUPPORTS, COORDINATE SIZE AND LOCATION WITH ARCH MANUFACTURER.
 24. FENCE POST SET IN CONCRETE FOUNDATION MINIMUM OF 3'-6" BELOW GRADE, FOUNDATION SIZE PER MANUFACTURER 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"

Addendum #3: 29 March 2023
Bidding and Permits: 20 March 2023

Architectural Site Plan & Details
EHRESMAN ARCHITECTS
Crestwood School District
Crestwood High School
Field Building & Site Improvements

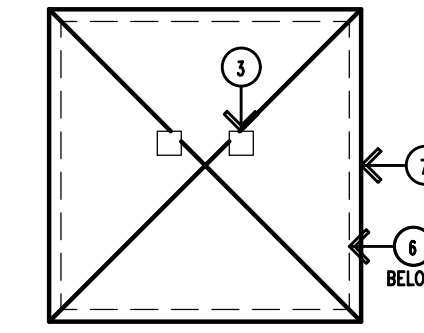


GENERAL NOTES:

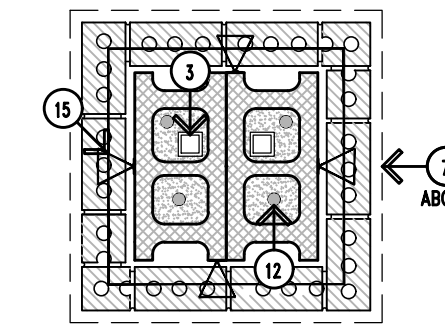
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- G4. DISPOSE OF ALL ITEMS REMOVED OFF SITE PER LOCAL BUILDING AND SAFETY ORDINANCES.
- G5. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED AND FINISHED BACK TO EXISTING CONDITION.
- G6. REFER TO CIVIL AND STRUCTURAL 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.

DRAWING NOTES:

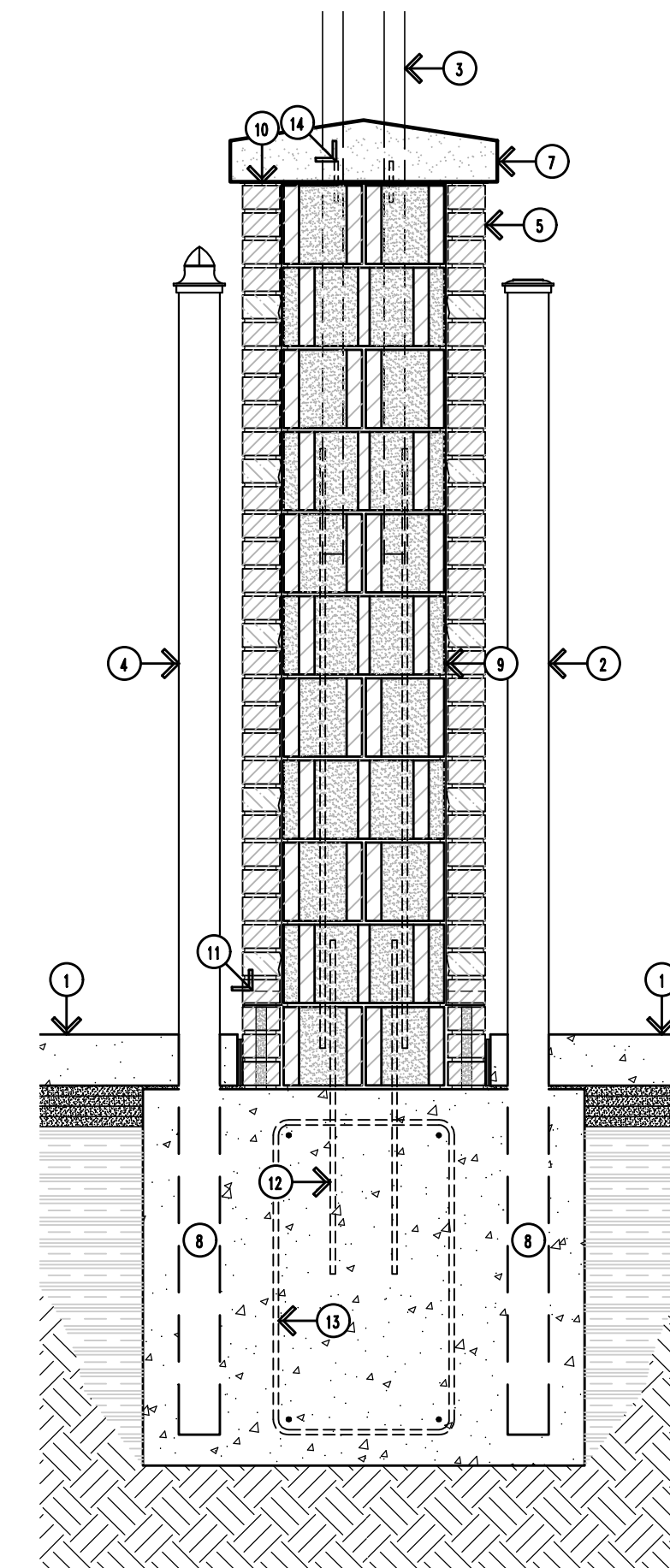
1. 5" CONCRETE SIDEWALK ON MINIMUM 4" SAND CUSHION BASE ON PROPERLY COMPACTED SUB-GRADE - REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
2. BLACK VINYL CHAINLINK FENCING - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
3. DISTRICT LOGO AND "CRESTWOOD CHARGERS" ALUMINUM ARCH - CONTRACTOR TO VERIFY FINAL LOGO LAYOUT WITH OWNER PRIOR TO MANUFACTURING, 2" x 2" ALUMINUM TUBE WITH 9" HIGH x 1/4" THICK ALUMINUM LETTERS - WELDED CONSTRUCTION WITH ACRYLIC POLYURETHANE ENAMEL FINISH, COLOR AS SELECTED.
4. ORNAMENTAL ALUMINUM FENCE POSTS AND GATE.
5. 4" BRICK VENEER TO MATCH EXISTING (INSTALL HEADER COURSE EVERY 6 ROWS OF BRICK). -- COLOR TO BE BELDEN BRICK "1-HB".
6. BRICK AND GROUTED CMU PIER FOR SUPPORT OF ALUMINUM ARCH.
7. LIMESTONE CAP WITH SLOPED TOP AND OPENINGS FOR ALUMINUM ARCH SUPPORTS, COORDINATE SIZE AND LOCATION WITH ARCH MANUFACTURER, PROJECT 1" BEYOND BRICK.
8. FENCE POST SET IN CONCRETE FOUNDATION MINIMUM OF 3'-6" BELOW GRADE, FOUNDATION SIZE PER MANUFACTURER REQUIREMENTS.
9. EPDM FLASHING AT PERIMETER OF CMU PIER.
10. EPDM FLASHING ACROSS ENTIRE TOP OF PIER UNDER CAP.
11. WEEP HOLES - MINIMUM (1) PER SIDE.
12. PIER REINFORCING - (4) #4 REBAR, 3'-0" LONG, EMBED 24" INTO CONCRETE FOUNDATION AND SOLID GROUT CMU CORES.
13. FOUNDATION REINFORCING - #4 REBAR BOTH WAYS, MINIMUM 3" COVER.
14. 3/8" DIAMETER x 2" LONG S.S. PIN, SEAL AROUND PENETRATION THROUGH CAP FLASHING.
15. BRICK TIES AND HORIZONTAL JOINT REINFORCING AT 16" o.c. VERTICALLY.



3 Limestone Cap Plan
Scale: 3/4"=1'-0"



1 Masonry Pier Section
Scale: 3/4"=1'-0"



1 Masonry Pier Section
Scale: 3/4"=1'-0"

Addendum #3: 29 March 2023

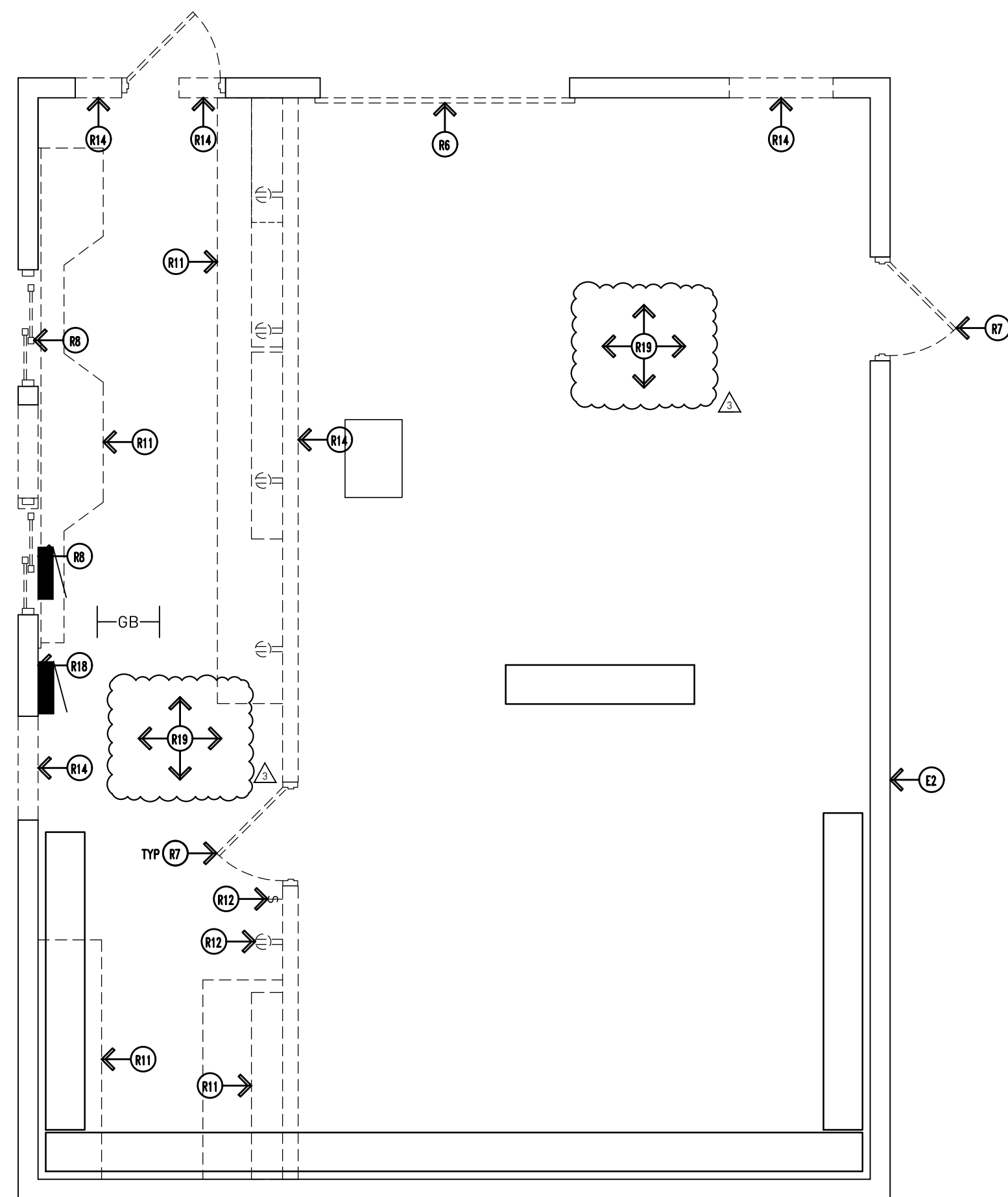
Architectural Site Plan & Details



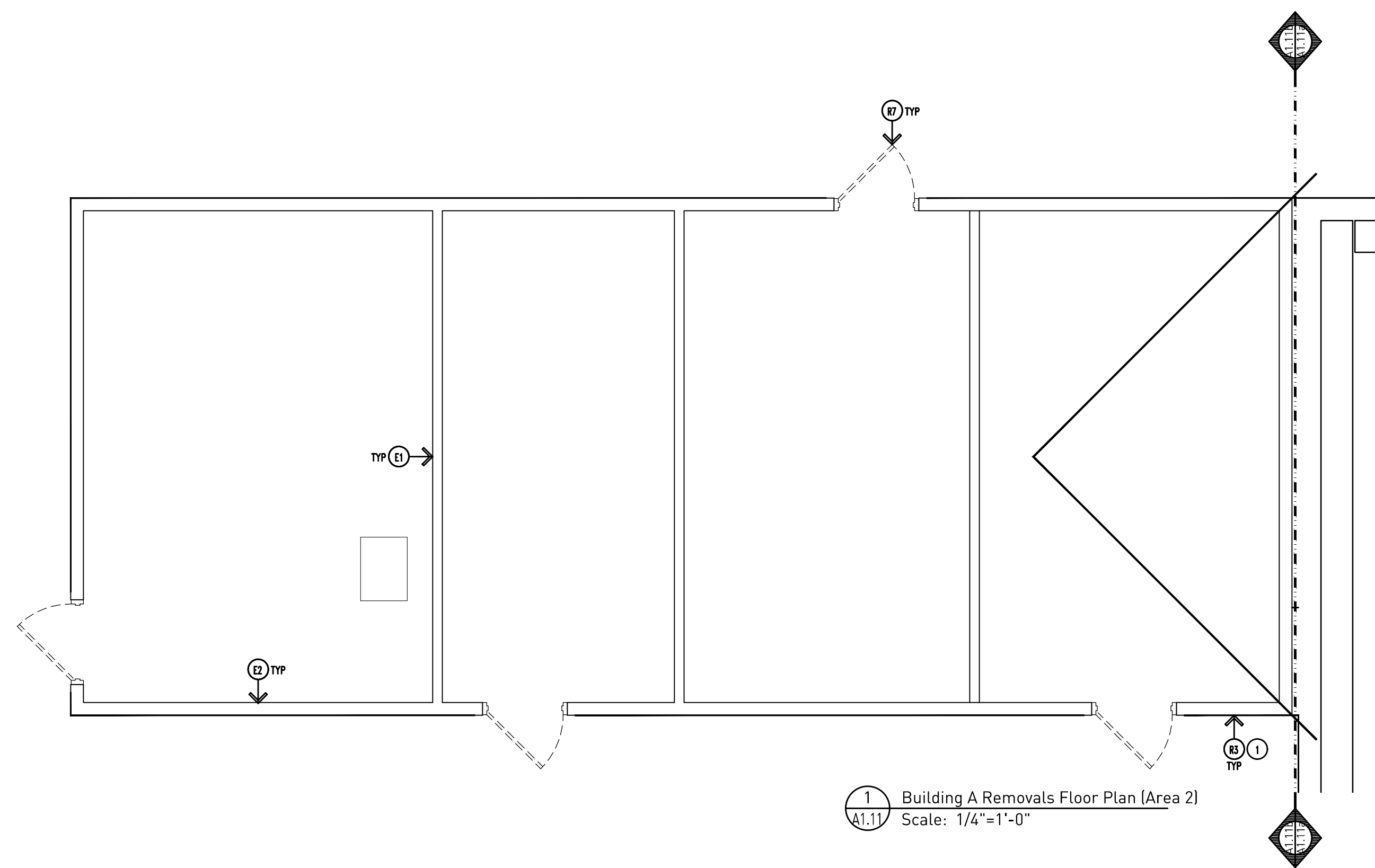
Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

A0.12



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



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

DRAWING NOTES:

- 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.)

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.
- R19. EXISTING CONCRETE FLOOR SLAB - COMPLETE.

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.

Addendum #3: 29 March 2023
Bidding and Permits: 20 March 2023

Removals Floor Plans

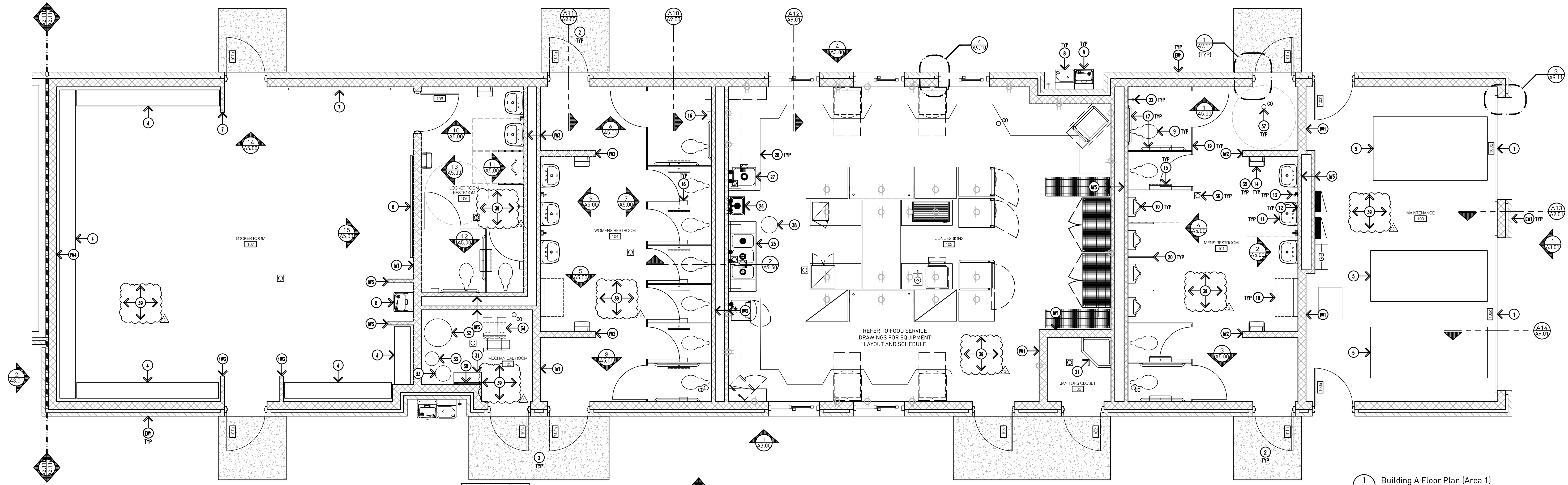
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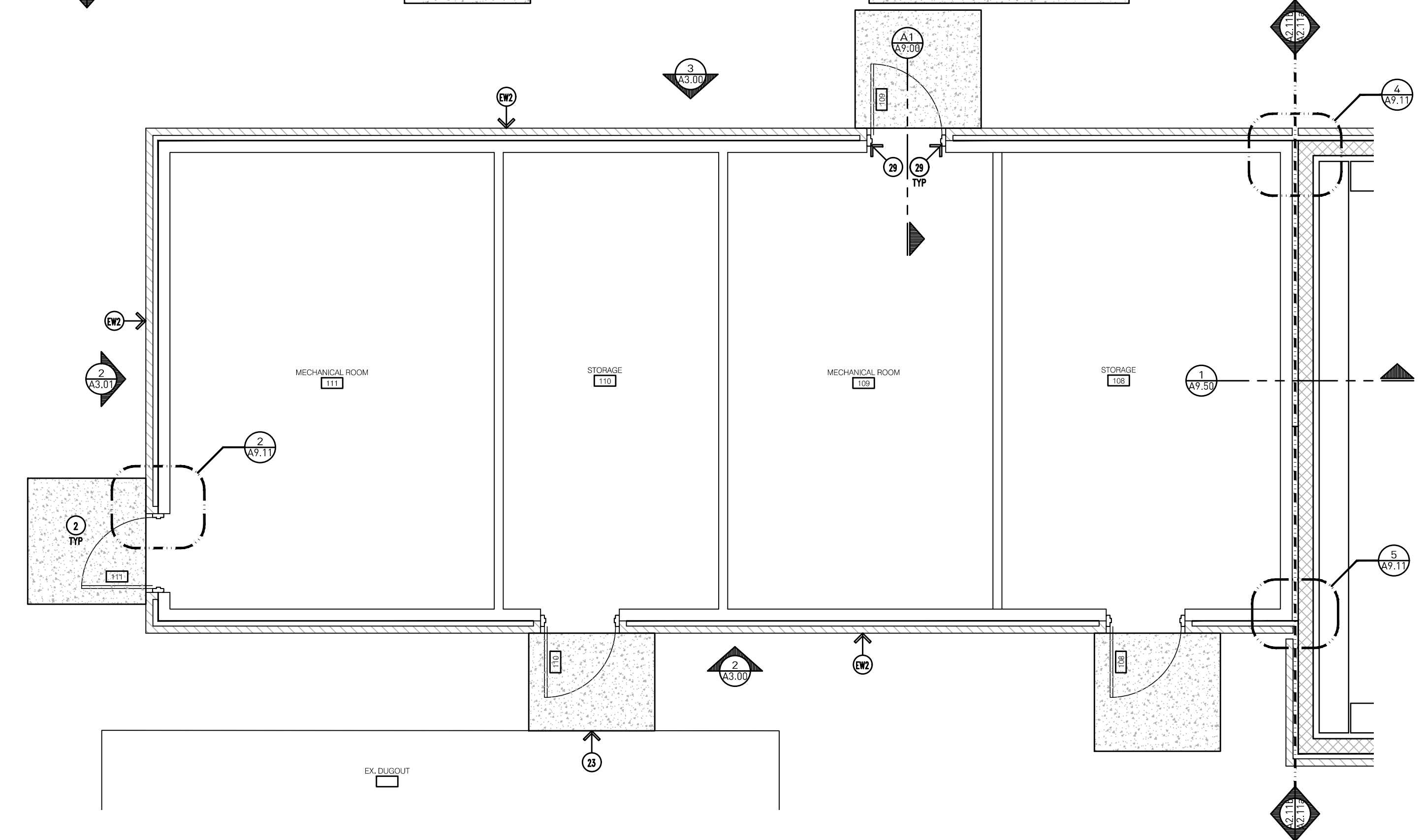
Project No. 5622

A1.11





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.
- 39. SEALED CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.

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:

- 61. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- 62. ALL NOTES MAY NOT APPLY TO THIS SHEET.
- 63. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- 64. PROTECT ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- 65. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED, AND FINISHED BACK TO ORIGINAL CONDITION.
- 66. NEW FINISH FLOOR TO MATCH EXISTING EXACTLY.
- 67. ALL MASONRY TO MATCH EXISTING COURSING EXACTLY. CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO STARTING WORK.
- 68. CONTRACTOR SHALL INSTALL HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 69. CONTRACTOR TO INSTALL ADJUSTABLE BRICK VENEER ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY. FIELD VERIFY CAVITY THICKNESS TO PROVIDE CORRECT ANCHOR SIZE.
- 610. ALL OUTSIDE CORNERS OF INTERIOR CMU MASONRY TO BE BULLNOSE.
- 611. 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.

Addendum #3: 29 March 2023
Bidding and Permits: 20 March 2023

Floor Plan - Building A

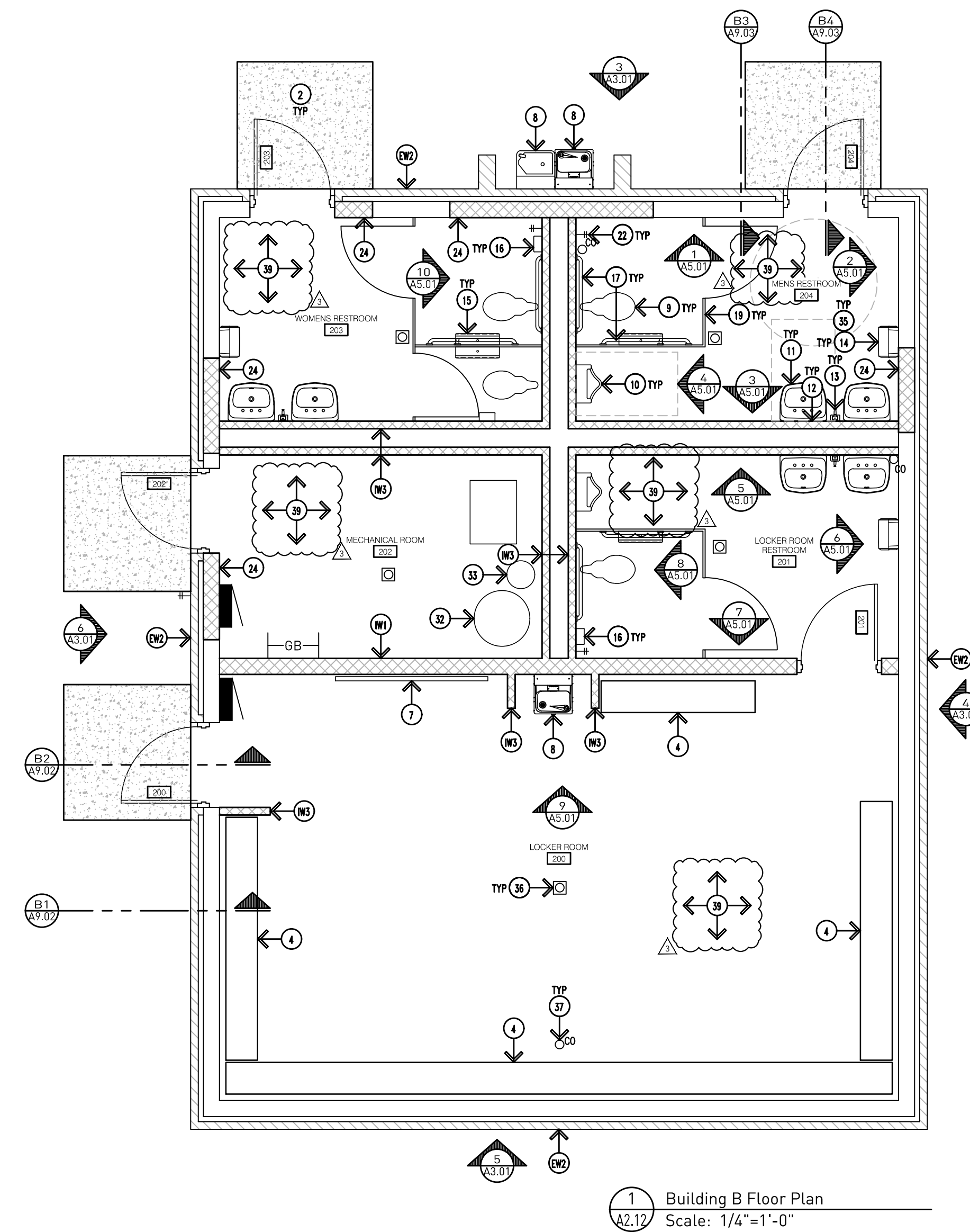


Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

A2.11





1 Building B Floor Plan
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.

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- 5. DESIGNATED AREA FOR OWNERS BATTERY POWERED UTILITY VEHICLE.
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- 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.

Addendum #3: 29 March 2023
Bidding and Permits: 20 March 2023

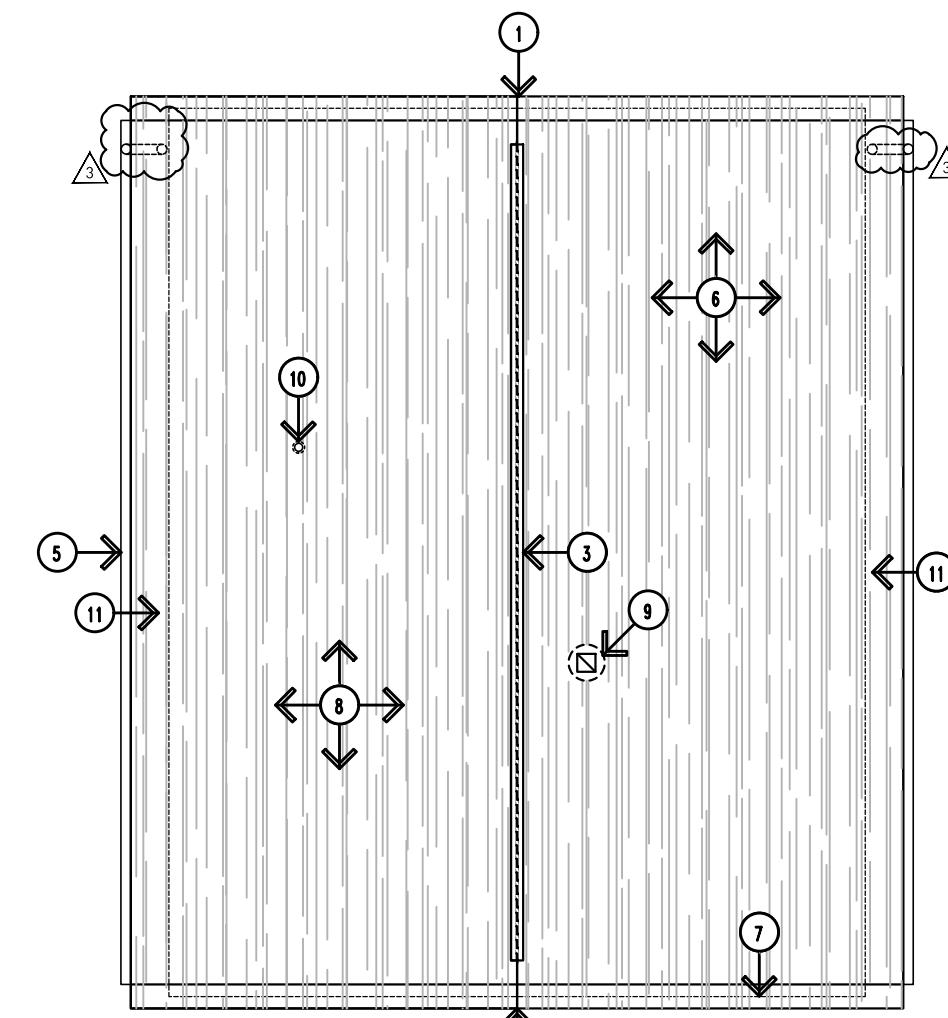
Floor Plan - Building B



Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

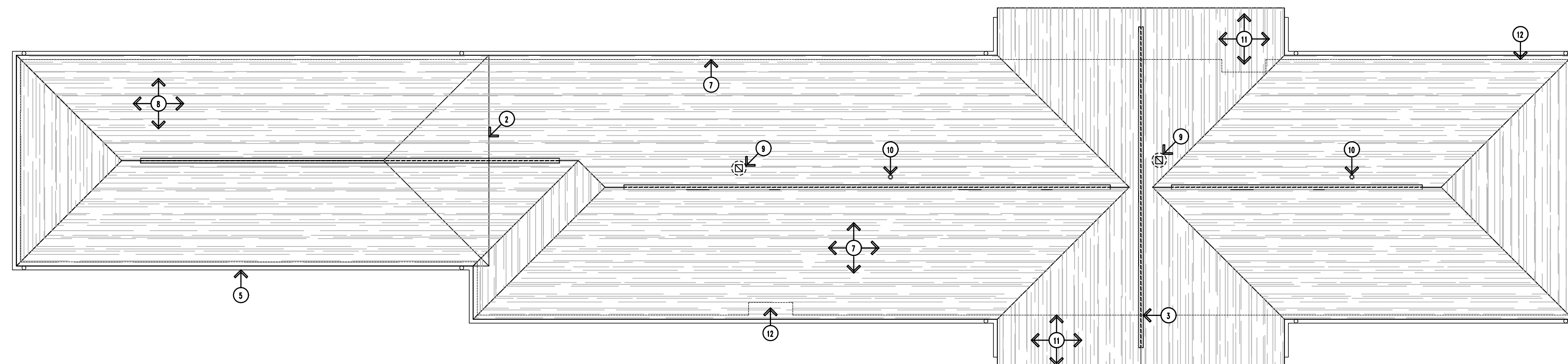
A2.12



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 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.

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

DRAWING NOTES CONTINUED:

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

GENERAL NOTES:

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

DRAWING NOTES:

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

Addendum #3: 29 March 2023
Bidding and Permits: 20 March 2023

Roof Plans

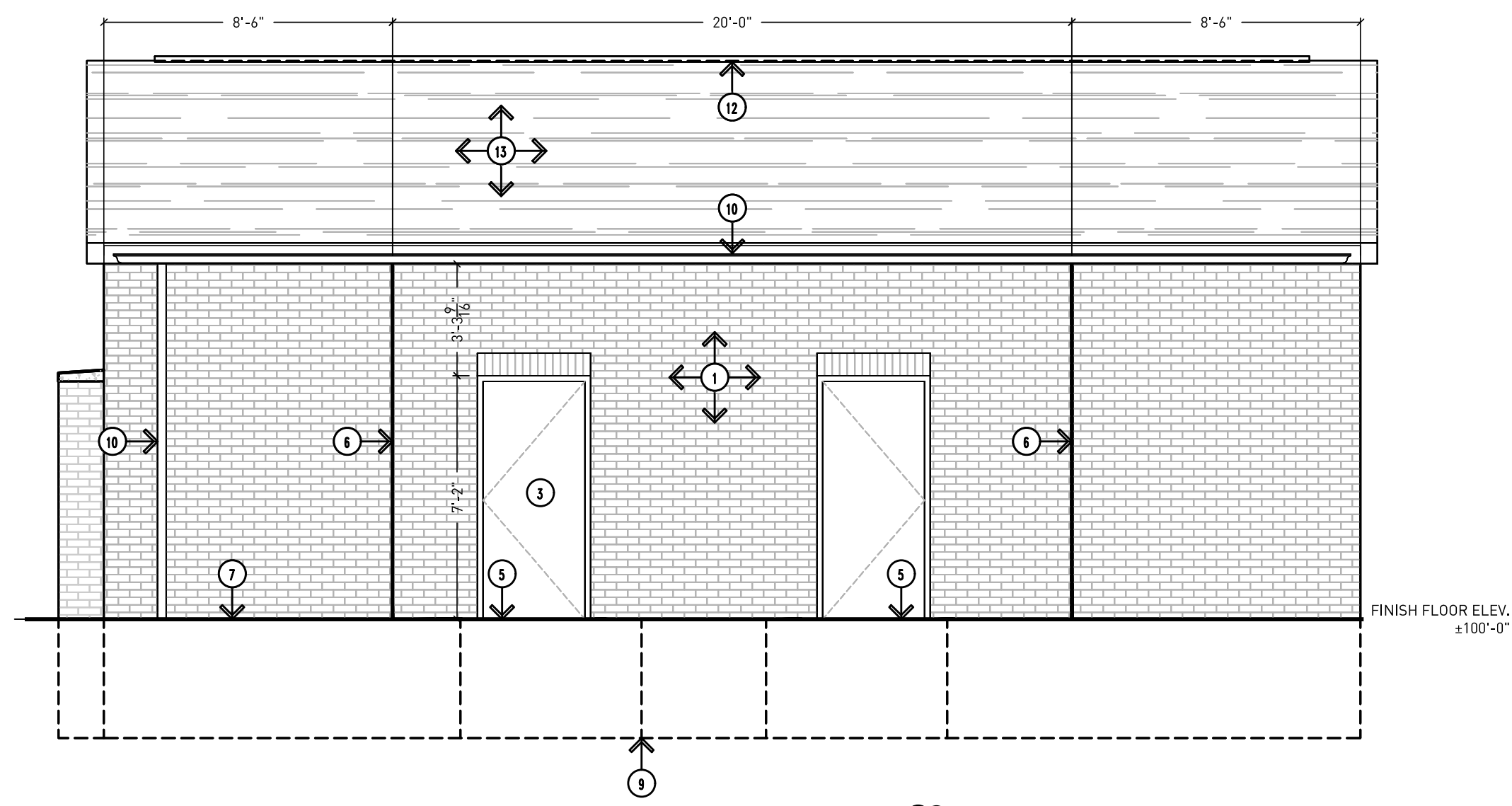


Crestwood School District
Crestwood High School
Field Building & Site Improvements

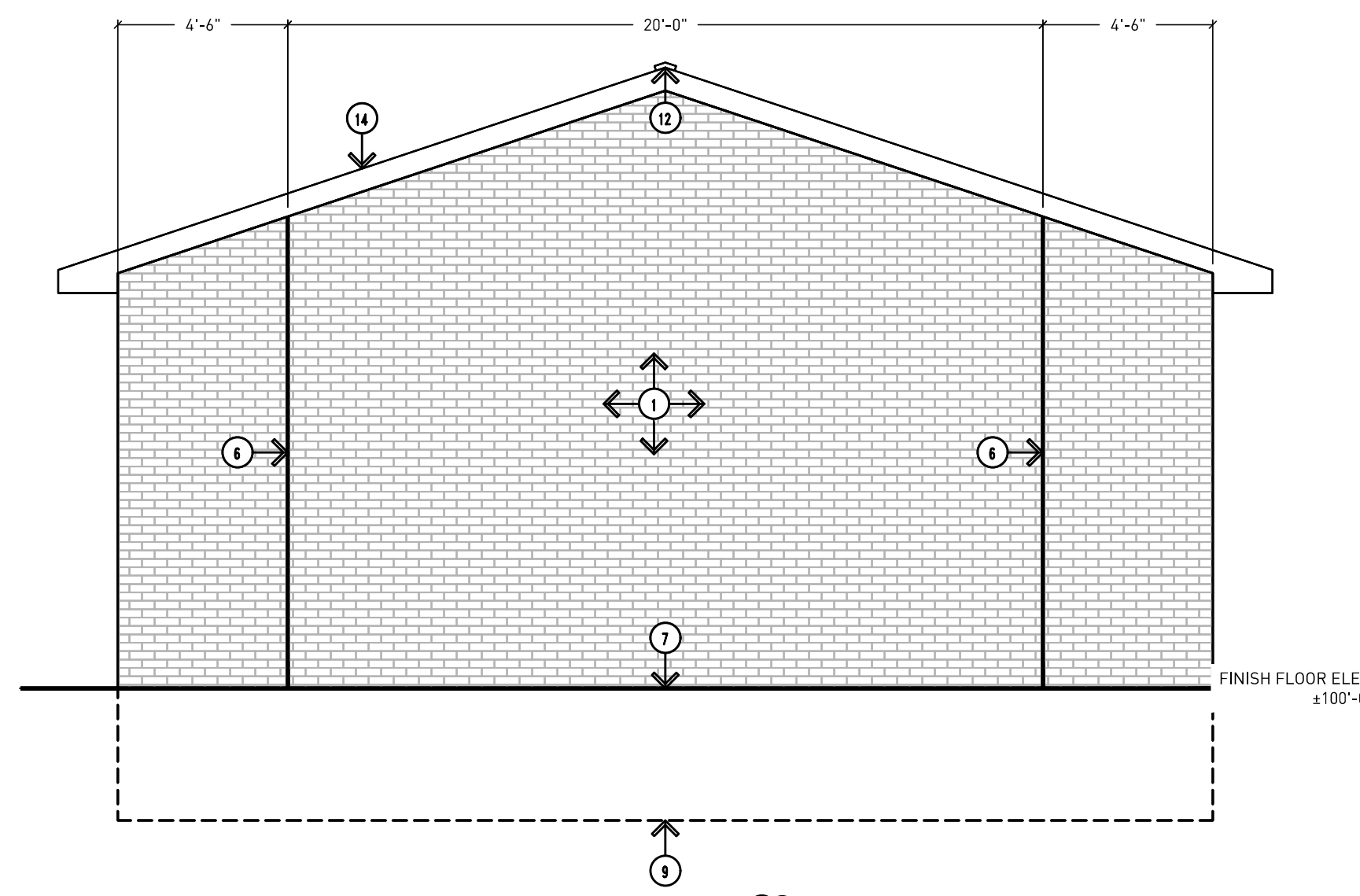
Project No. 5622

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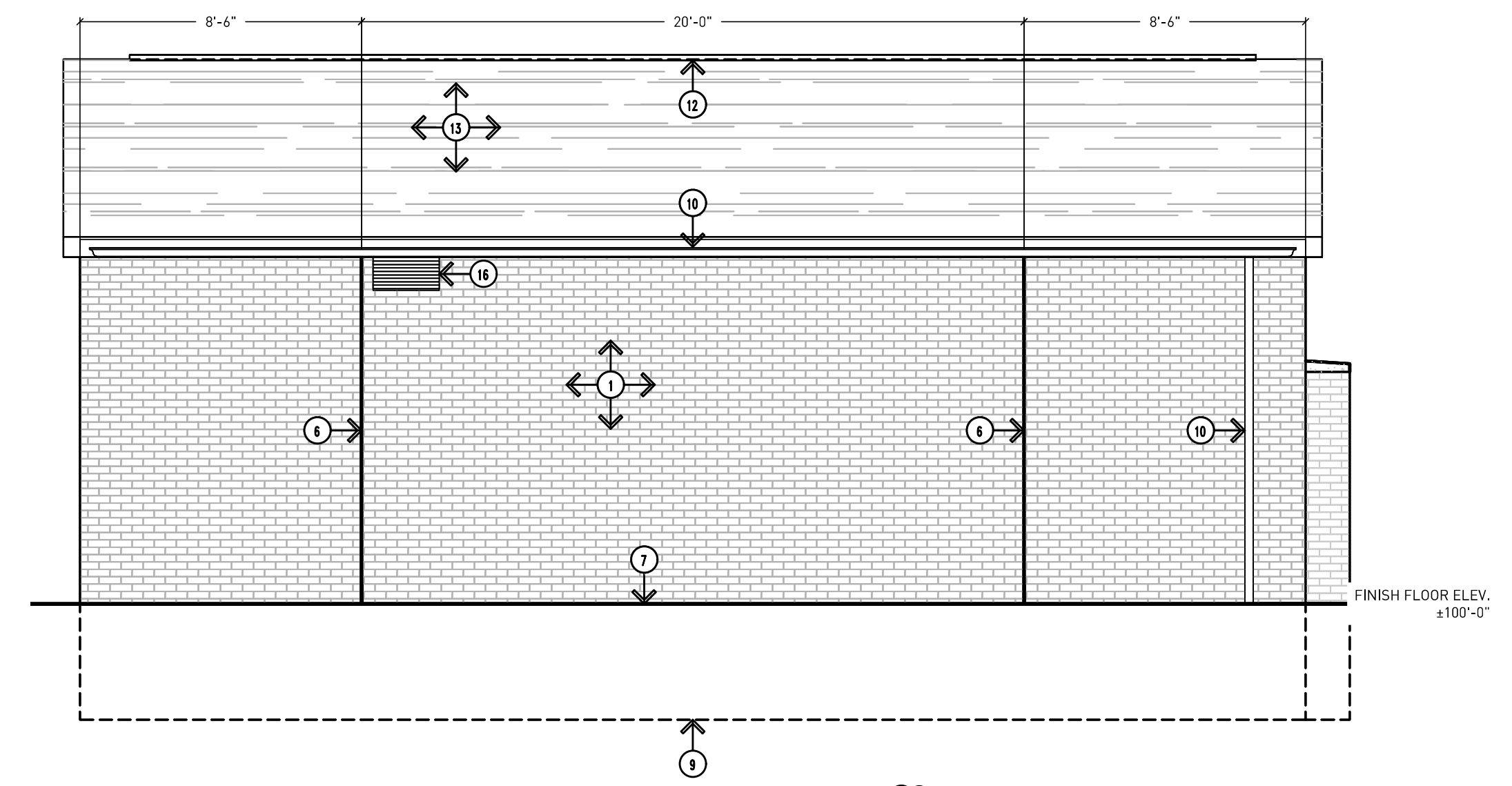




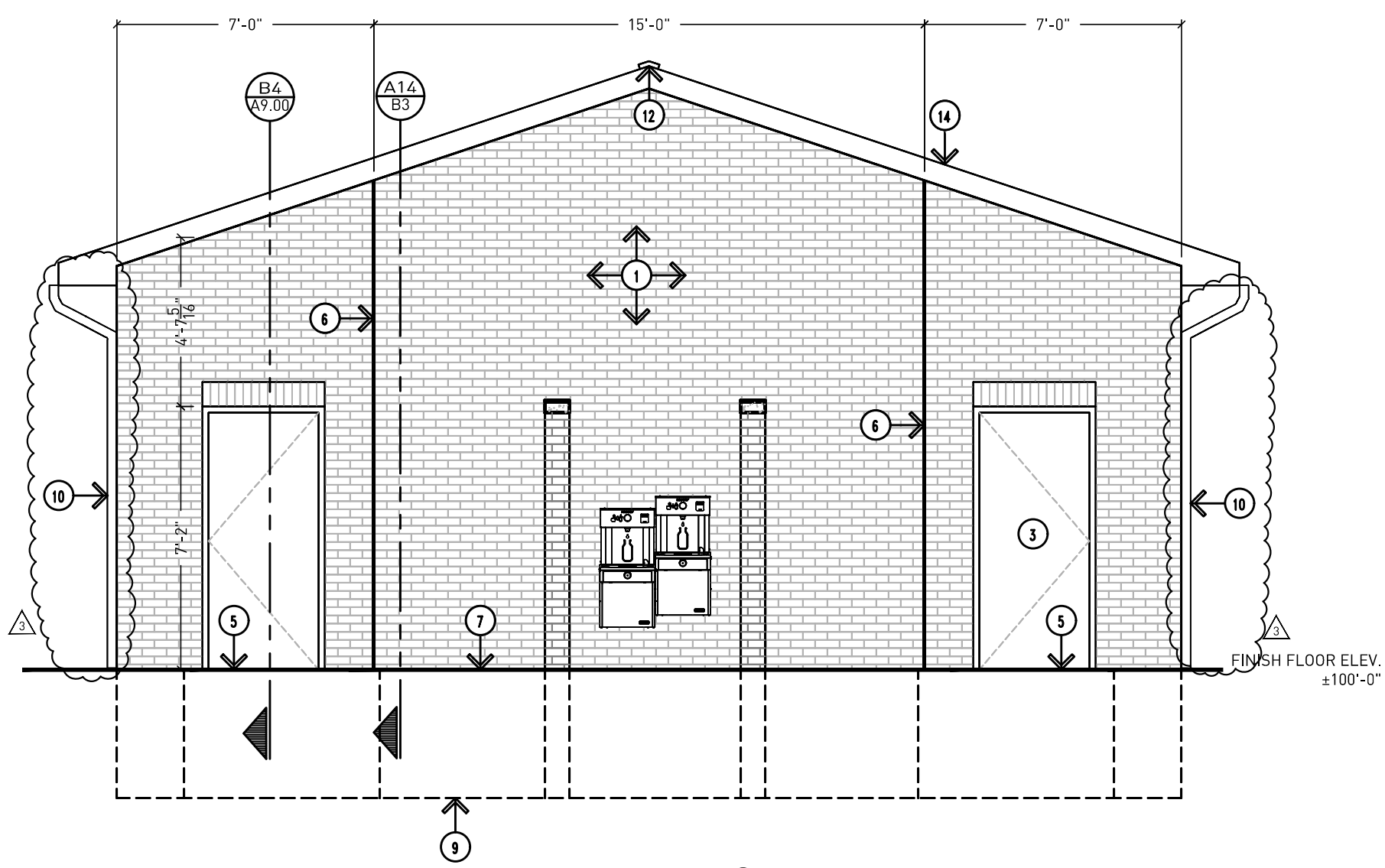
6 Building B Elevation (West)
Scale: 1/4"=1'-0"



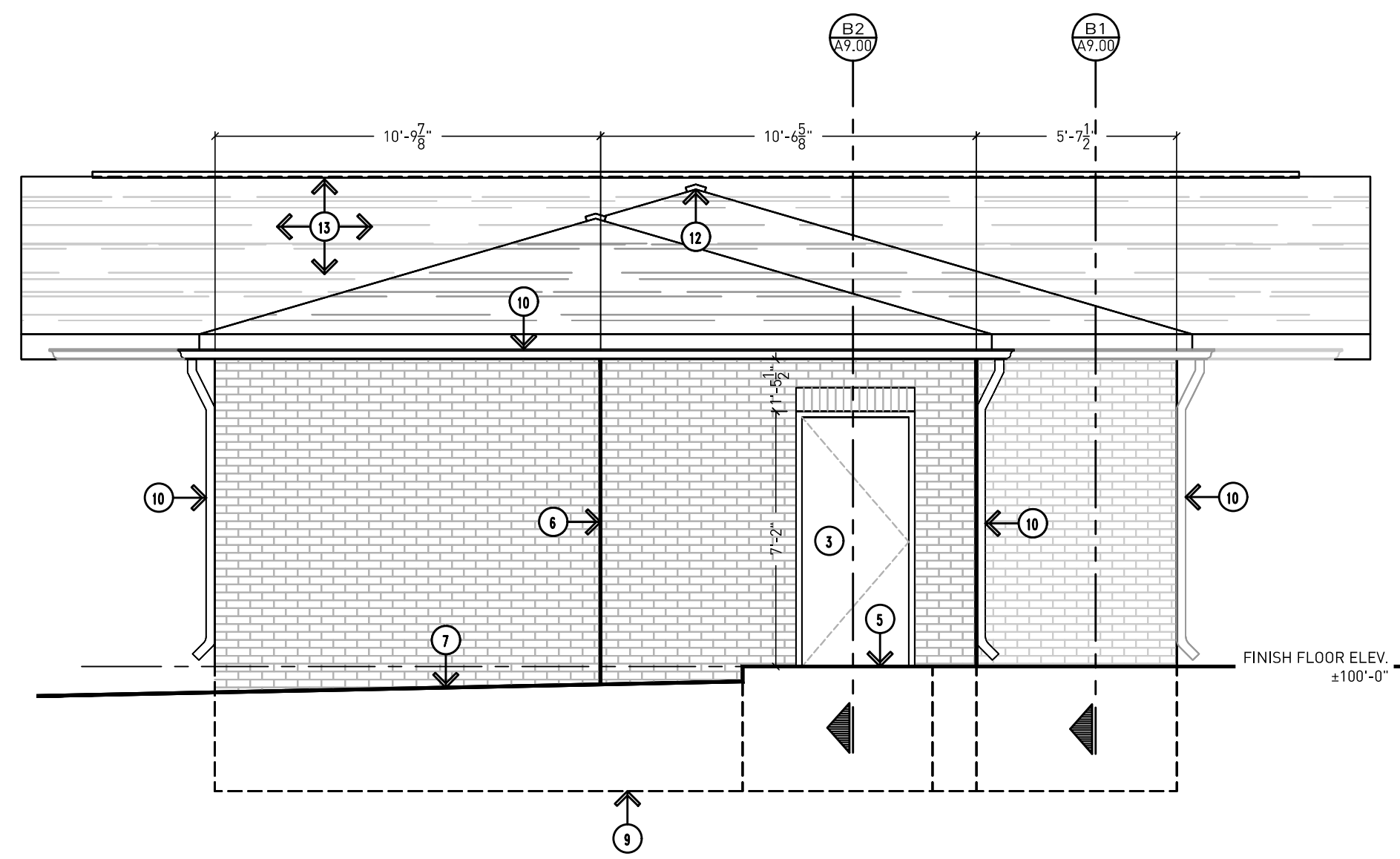
5 Building B Elevation (South)
Scale: 1/4"=1'-0"



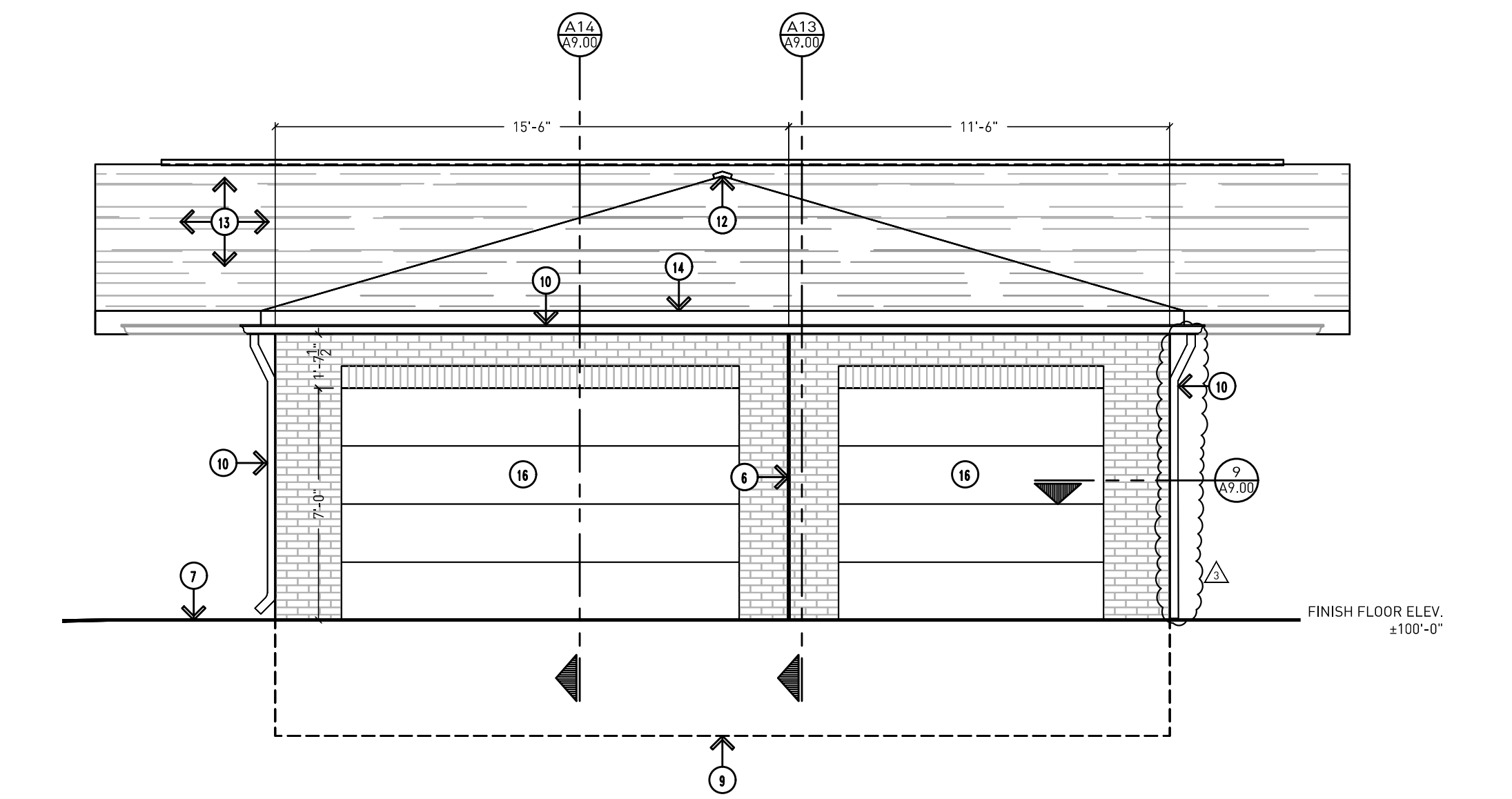
4 Building B Elevation (East)
Scale: 1/4"=1'-0"



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



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



1 Building A Elevation (East)
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.
- 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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- 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. 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 "SANDFORD".

Addendum #3: 29 March 2023
Addendum #2: 27 March 2023
Bidding and Permits: 20 March 2023

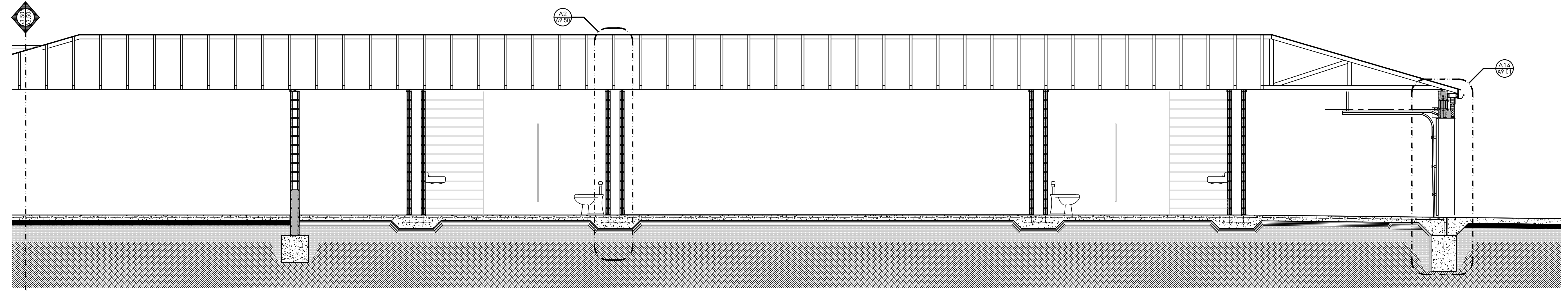
Exterior Elevations



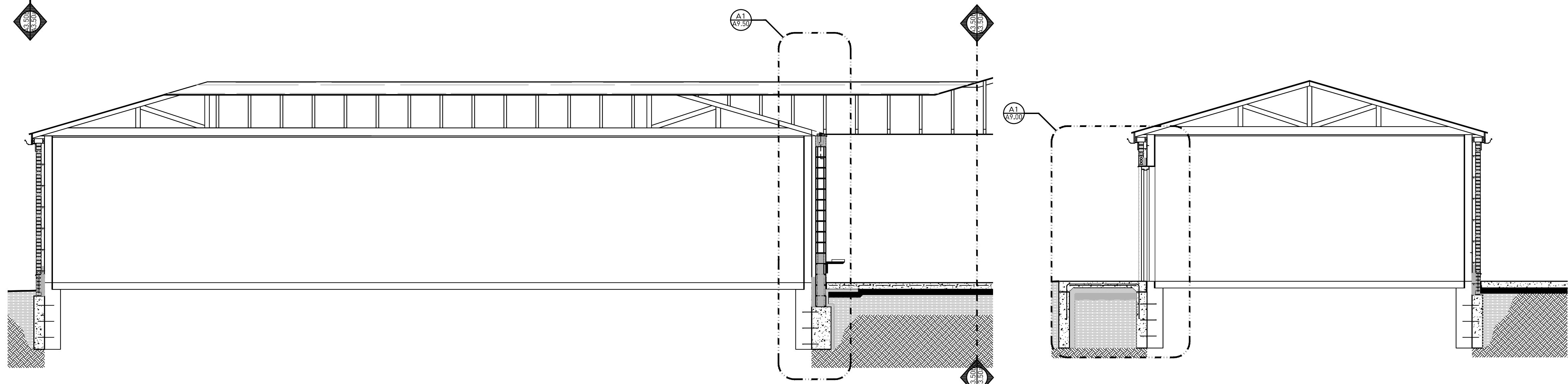
Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

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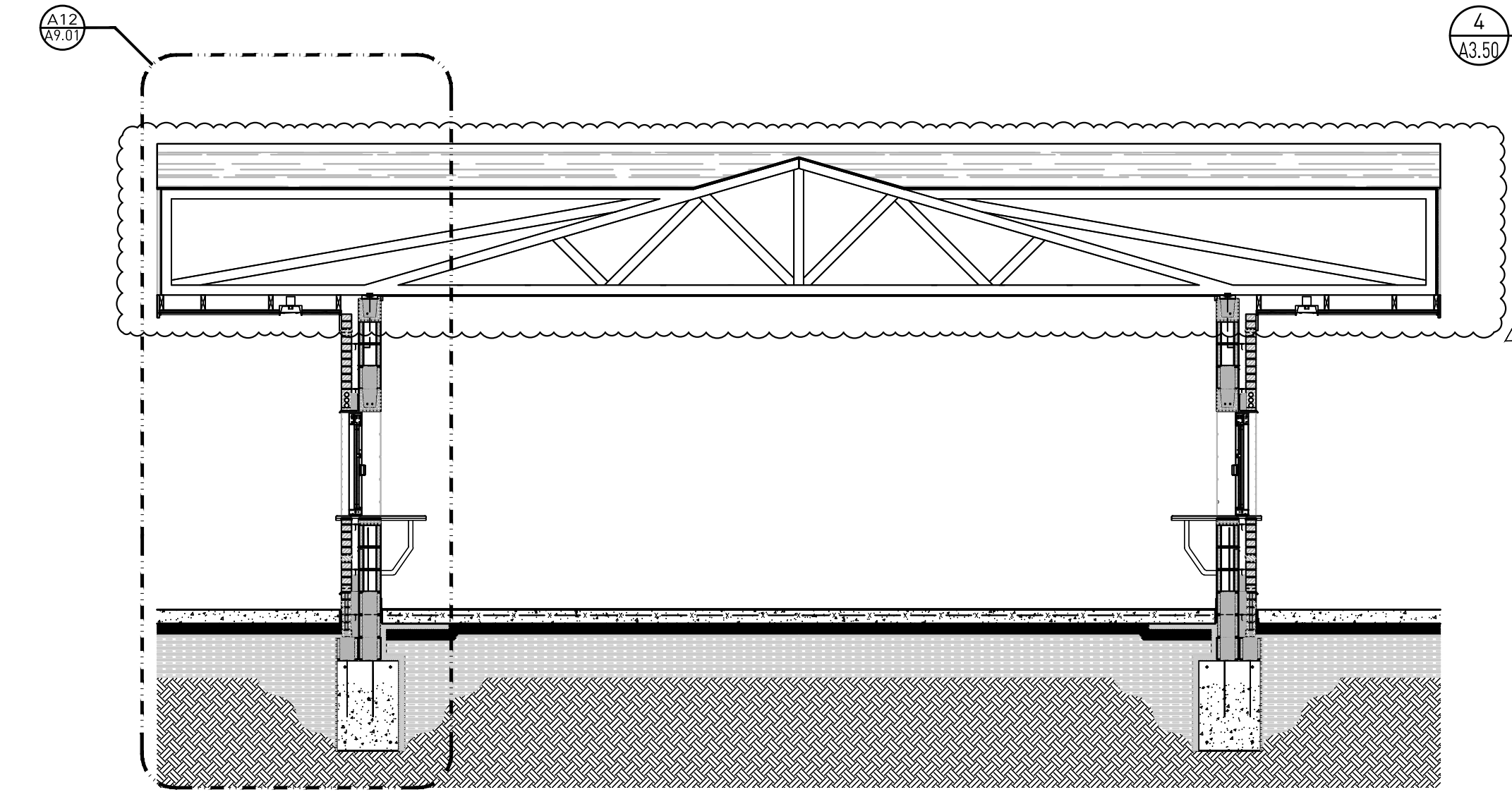


5 Building A: Area 1 Cross Section (E/W)
Scale: 1/4"=1'-0"

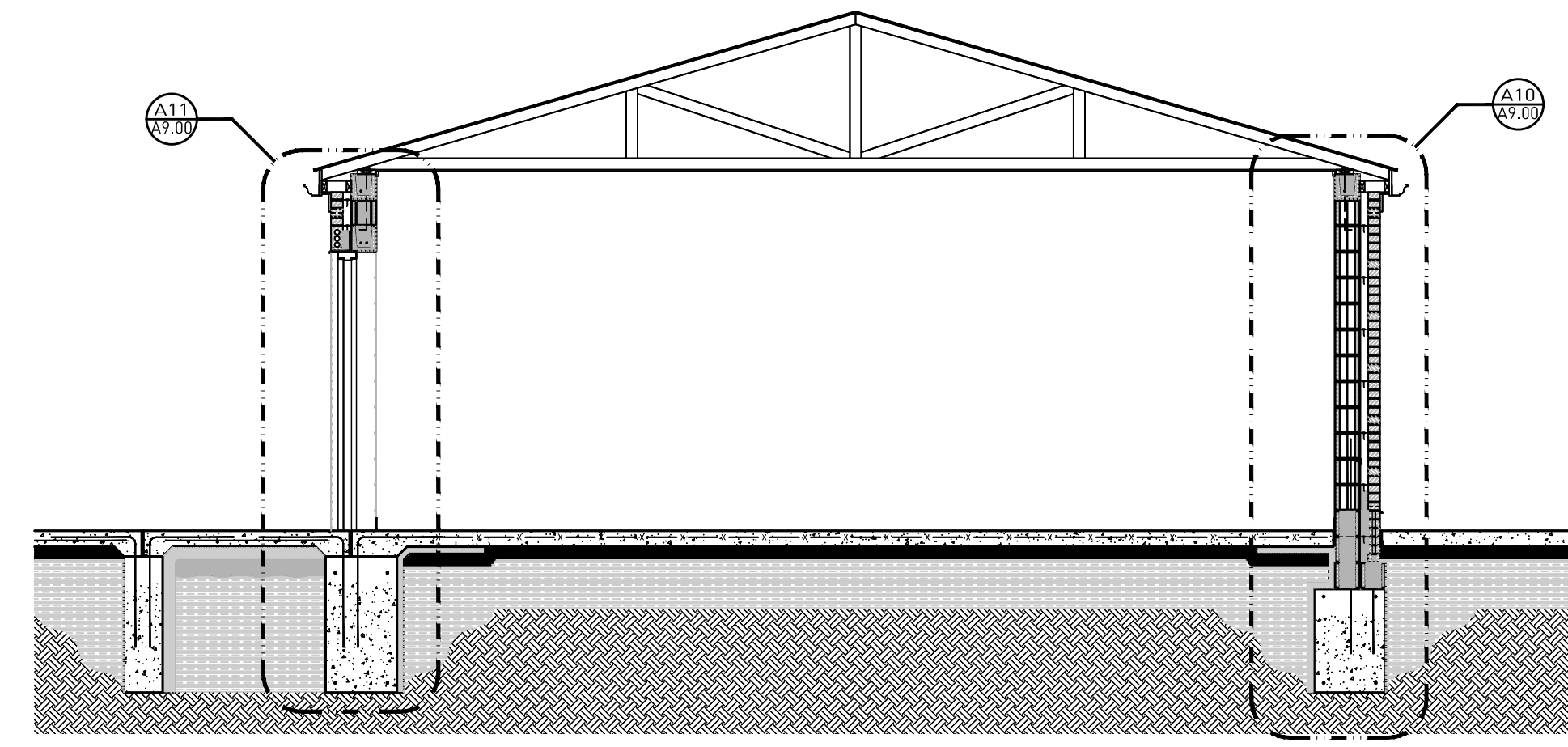


4 Building A: Area 2 Cross Section (E/W)
Scale: 1/4"=1'-0"

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"

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Addendum #3: 29 March 2023
Bidding and Permits: 20 March 2023

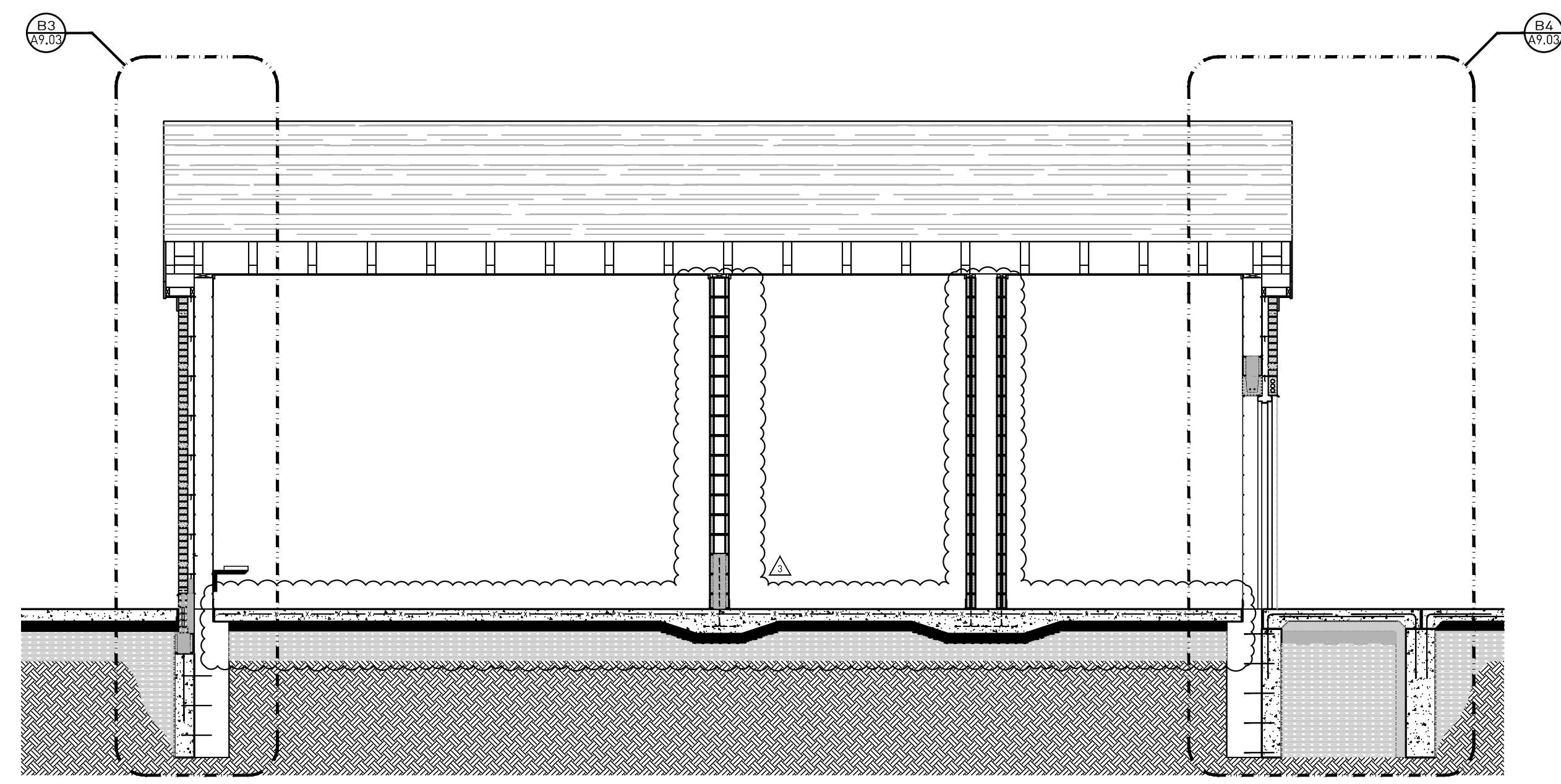
Building Sections - Building A



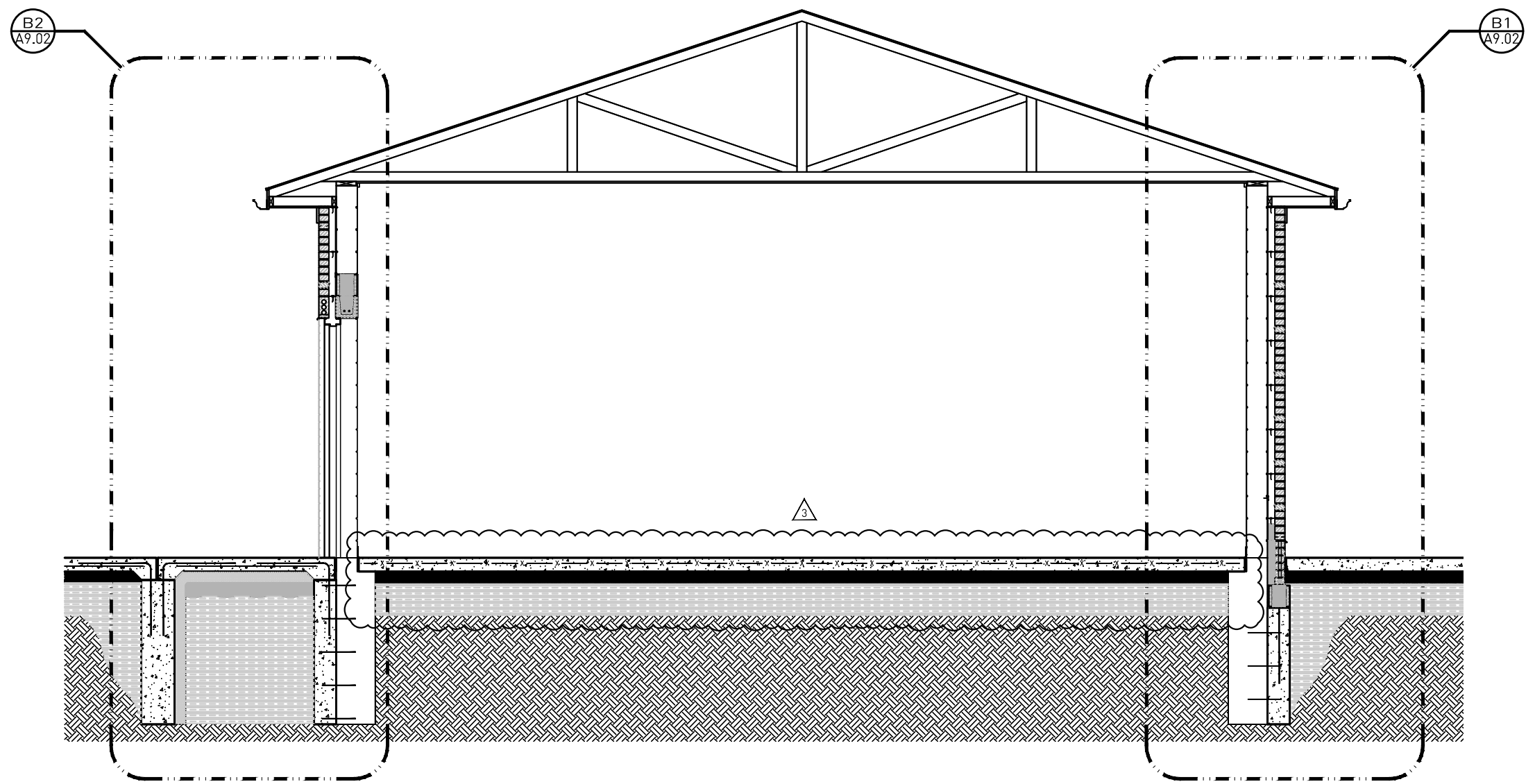
Crestwood School District
Crestwood High School
Field Building & Site Improvements

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:

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

Addendum #3: 29 March 2023
Bidding and Permits: 20 March 2023

Building Sections - Building B



Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

A3.51

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. LENGTHS TO SUIT CONDITIONS - PILOT ROCK, PRODUCT - WMB SERIES.

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:

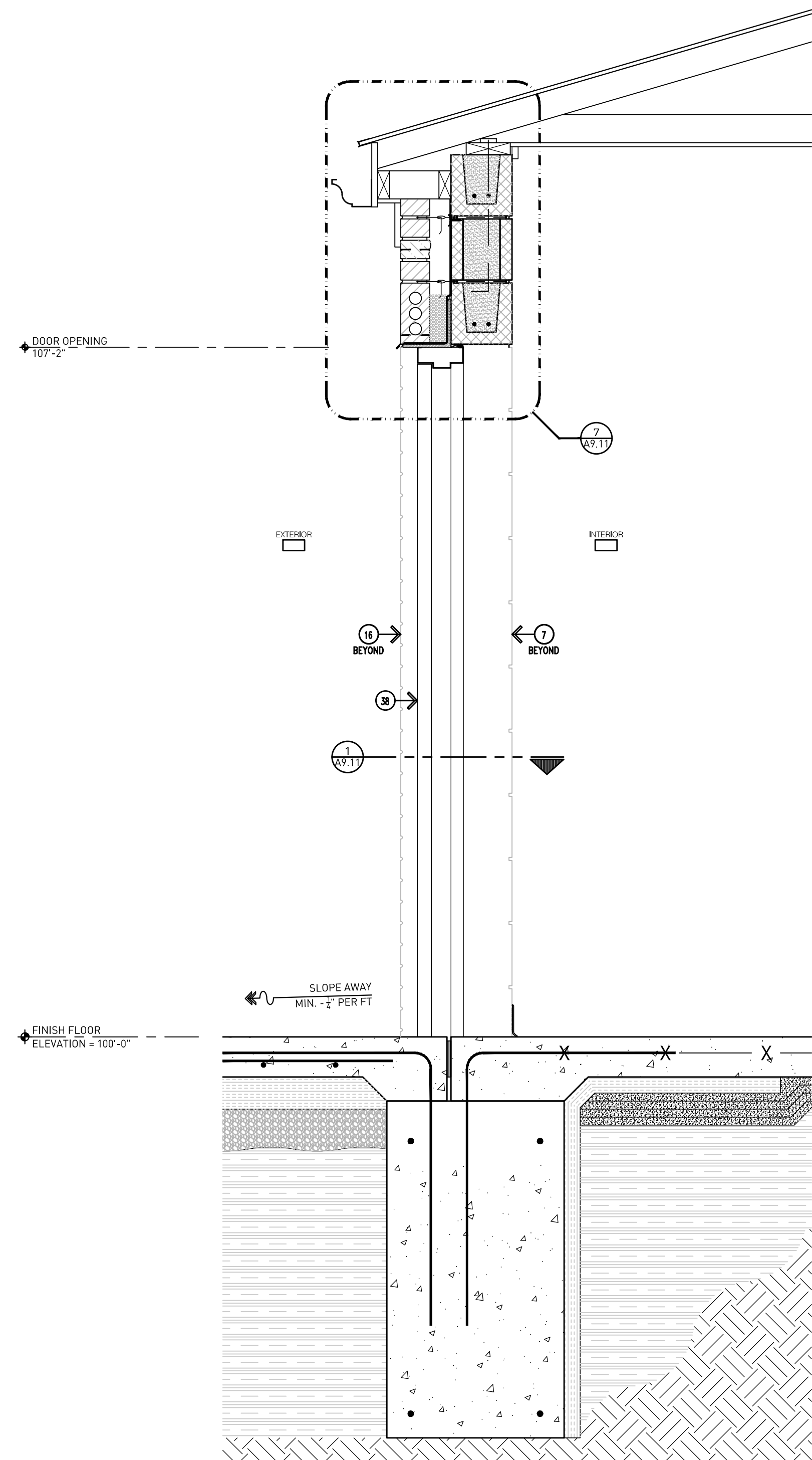
- E1. CONCRETE FLOOR SLAB - EXACT CONDITIONS UNKNOWN.
- E2. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E3. ROOF STRUCTURE (WOOD TRUSSES) - EXACT CONDITIONS UNKNOWN.
- E4. UNDISTURBED SOIL.
- E5. STRUCTURAL FOOTING - EXACT CONDITIONS UNKNOWN. CONTRACTOR TO FIELD VERIFY DEPTH.
- E6. WOOD FRAME CONSTRUCTION - 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:

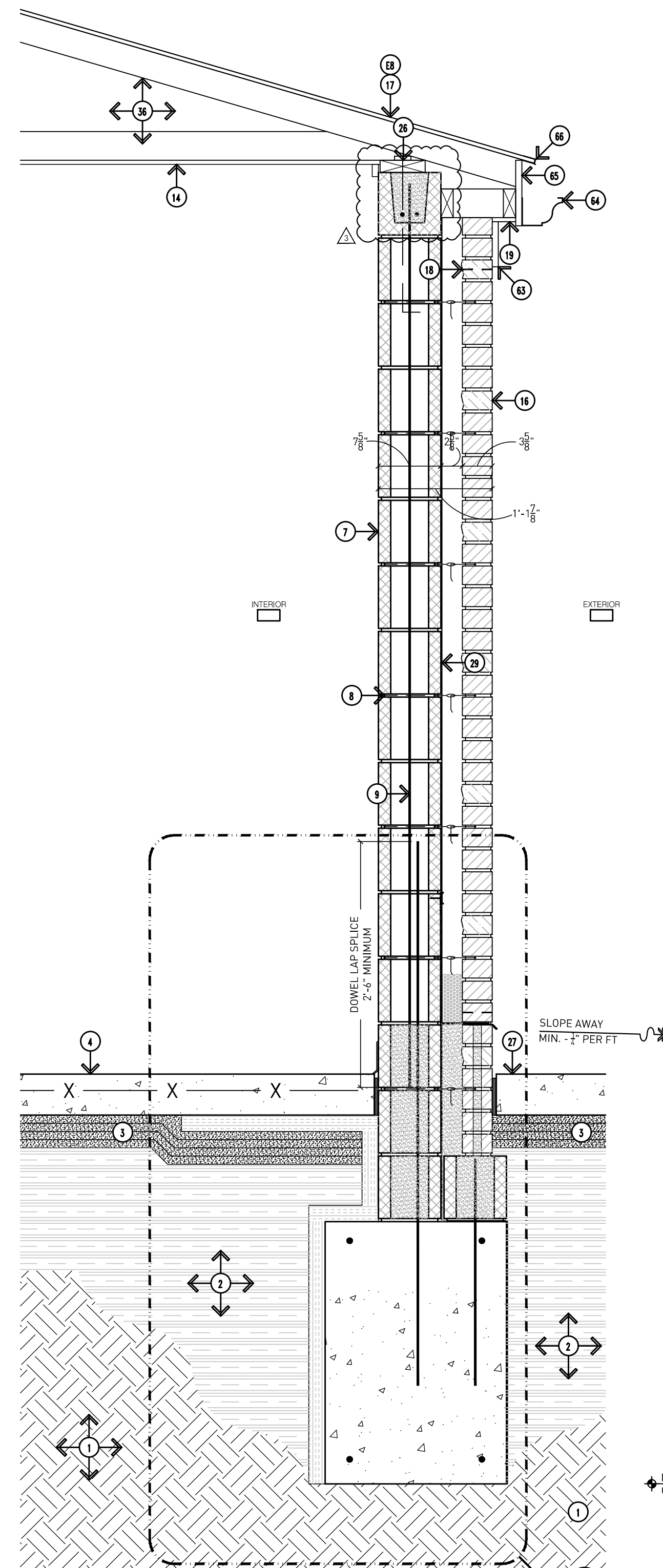
- R1. EXISTING ROOF STRUCTURE/SYSTEM AS INDICATED. CONTRACTOR TO REMOVE ROOF BACK TO THE FACE OF THE EXISTING WALL, WATERPROOF AND SEAL ANY AND ALL OPENINGS IN ROOF FOR A WEATHER-TIGHT INSTALLATION.

DRAWING NOTES:

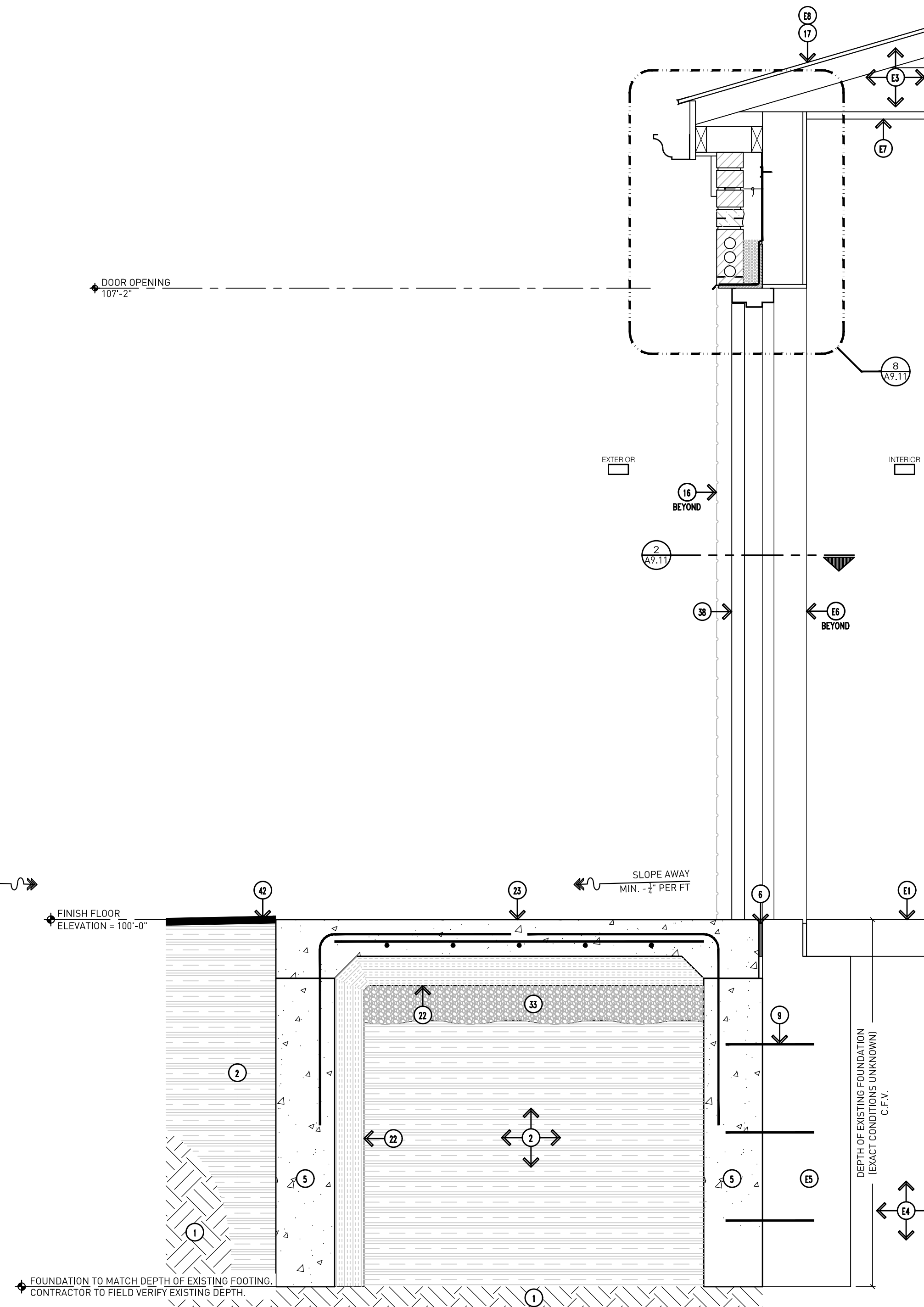
- 1. PROPERLY COMPACTED EXISTING SUBGRADE.
- 2. COMPACTED ENGINEERED FILL AS REQUIRED AFTER REMOVAL OF EXISTING LAWN / UNSUITABLE SOILS AS REQUIRED FOR PROPER SLAB ELEVATION.
- 3. COMPACTED SAND CUSHION BASE (MINIMUM 4").
- 4. SEALED CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL 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. SOFFIT FRAMING - PRESERVATIVE TREATED 2x @ 24" O.C.
- 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 4" 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 Building A: Area 1 Exterior Wall Section
A9.00
 Scale: 1"=1'-0"
 REFER TO A10/A9.00 AND A10/A9.00 FOR TYPICAL NOTES



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



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

Addendum #3: 29 March 2023
 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 ___ WOOD FASCIA - WITH ALUMINUM TRIM.
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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. 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 16" 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.
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- 47. 2 HOUR FIRE BARRIER.

DRAWING NOTES (CONTINUED):

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- 33. PEA STONE DRAINAGE MATERIAL (MINIMUM 6" HEIGHT).
- 34. VERTICAL ALUMINUM SIDING - REFER TO SPECIFICATIONS.
- 35. SEAL EXISTING CONCRETE FLOOR - REFER TO FINISH SCHEDULE.
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- 37. HM DOOR FRAME - REFER TO DOOR SCHEDULE.

GENERAL NOTES:

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- 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.
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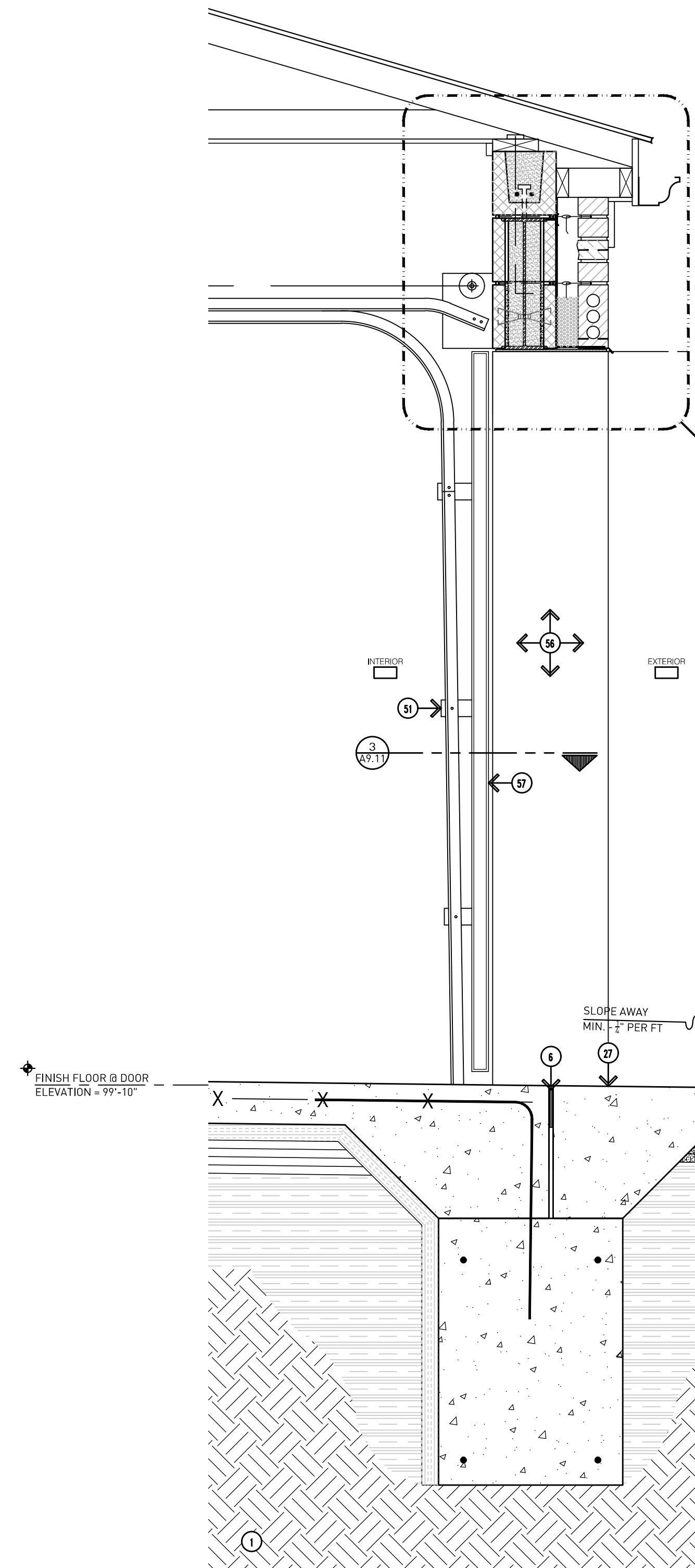
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REMOVAL NOTES:

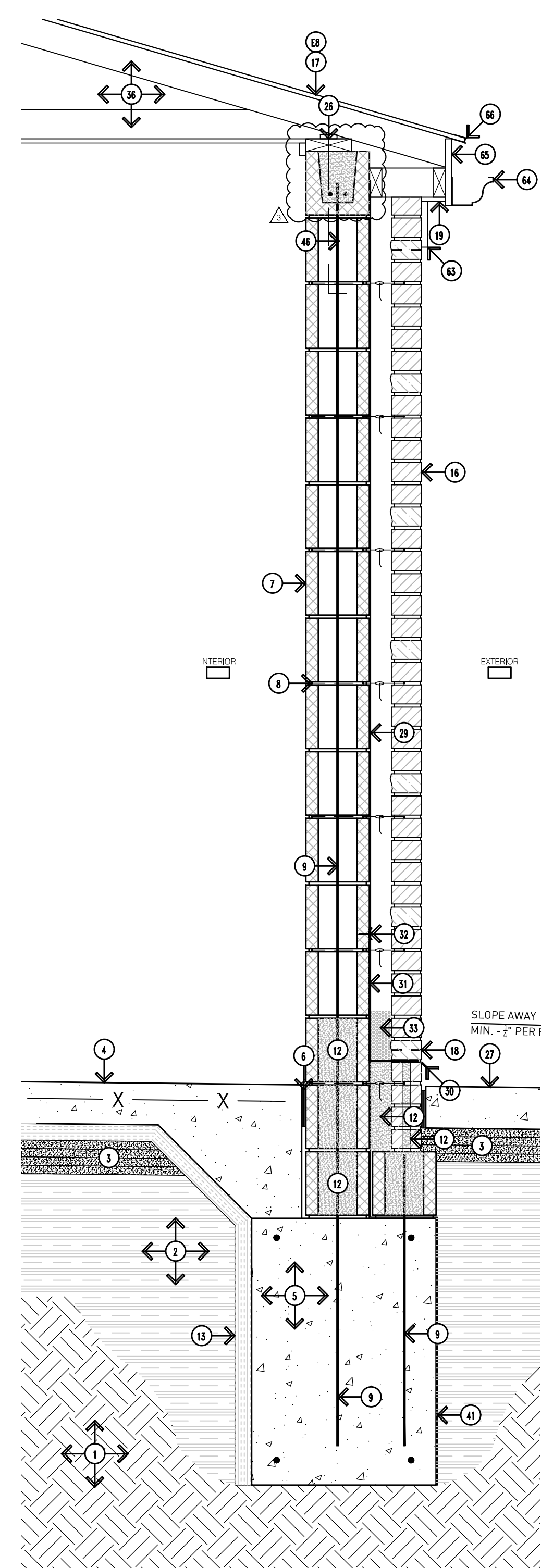
- R1. EXISTING ROOF STRUCTURE/SYSTEM AS INDICATED. CONTRACTOR TO REMOVE ROOF BACK TO THE FACE OF THE EXISTING WALL. WATERPROOF AND SEAL ANY AND ALL OPENINGS IN ROOF FOR A WEATHER-TIGHT INSTALLATION.

DRAWING NOTES:

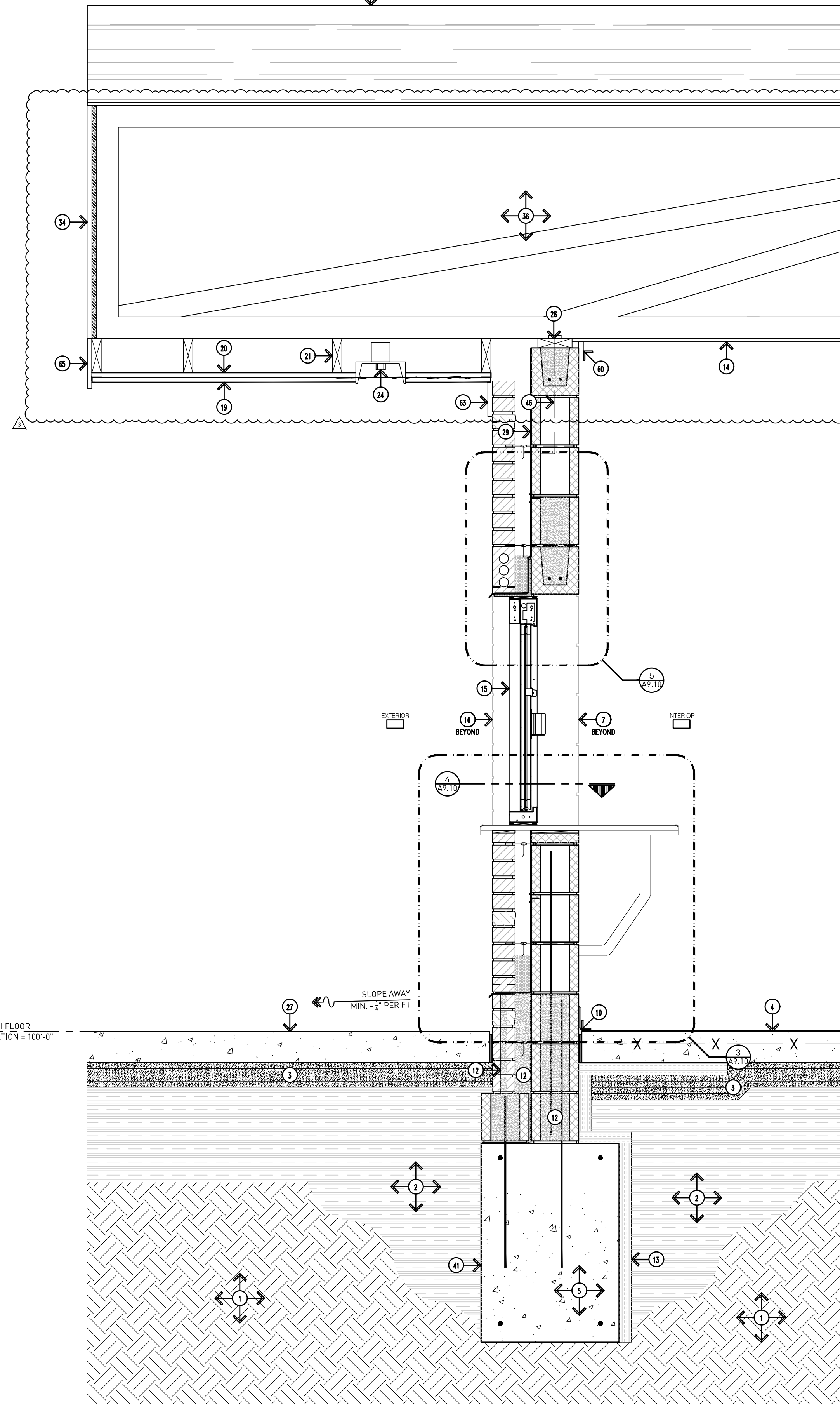
- 1. PROPERLY COMPACTED EXISTING SUBGRADE.
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- 3. COMPACTED SAND CUSHION BASE (MINIMUM 4").
- 4. SEALED CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.
- 5. CONCRETE FOUNDATION - REFER TO STRUCTURAL DRAWINGS.
- 6. 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT.
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- 8. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 9. REINFORCING - REFER TO STRUCTURAL DRAWINGS.
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- 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.
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- 19. ALUMINUM SOFFIT, FULLY VENTED - REFER TO SPECIFICATIONS.
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- 21. SOFFIT FRAMING - PRESERVATIVE TREATED 2x @ 24" O.C.
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- 26. 2" x 6" 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 Building A: Area 1 Exterior Wall Section
Scale: 1"=1'-0"
REFER TO A13/A9.01 FOR TYPICAL NOTES



A13 Building A: Area 1 Exterior Wall Section
Scale: 1"=1'-0"



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

Addendum #3: 29 March 2023
Bidding and Permits: 20 March 2023

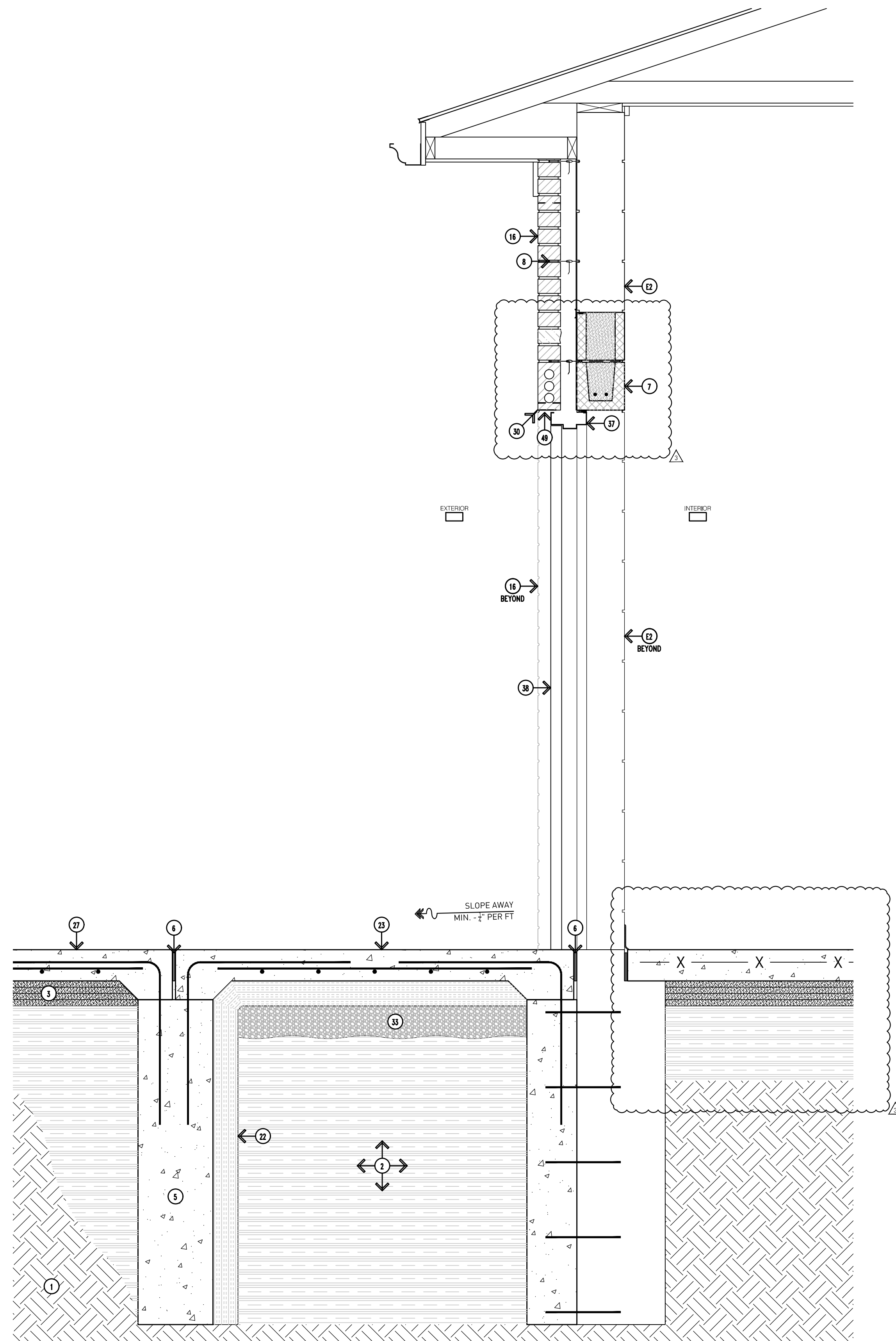
Exterior Wall Sections - Building A



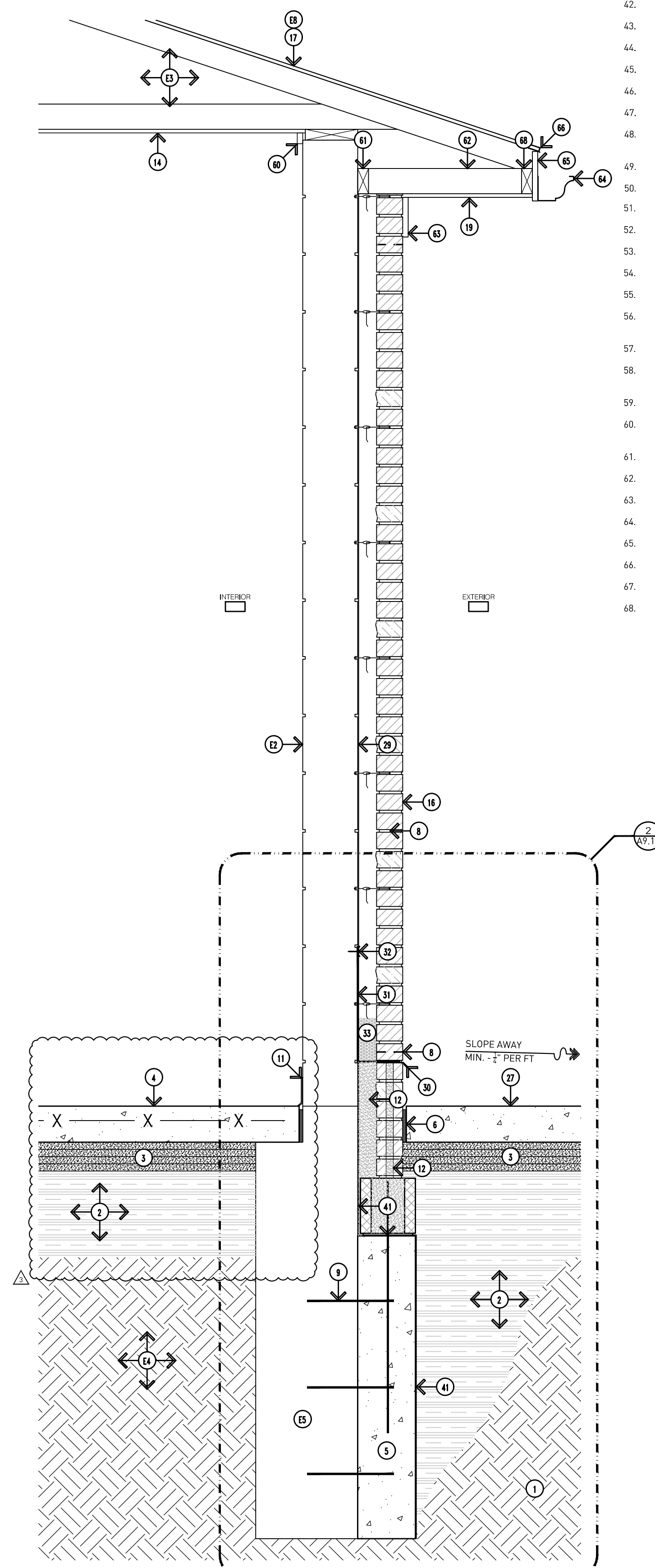
Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

A9.01



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
Scale: 1"=1'-0"

DRAWING NOTES (CONTINUED):

29. CONTINUOUS SPRAY-APPLIED VAPOR BARRIER FROM FOUNDATION TO ROOFING.
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GENERAL NOTES:

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- G3. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
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- 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. 2" CROSS FURRING SPACED PER MANUFACTURER'S RECOMMENDATIONS.
21. SOFFIT FRAMING - PRESERVATIVE TREATED 2x @ 24" O.C.
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 6" 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).

Addendum #3: 29 March 2023
Bidding and Permits: 20 March 2023

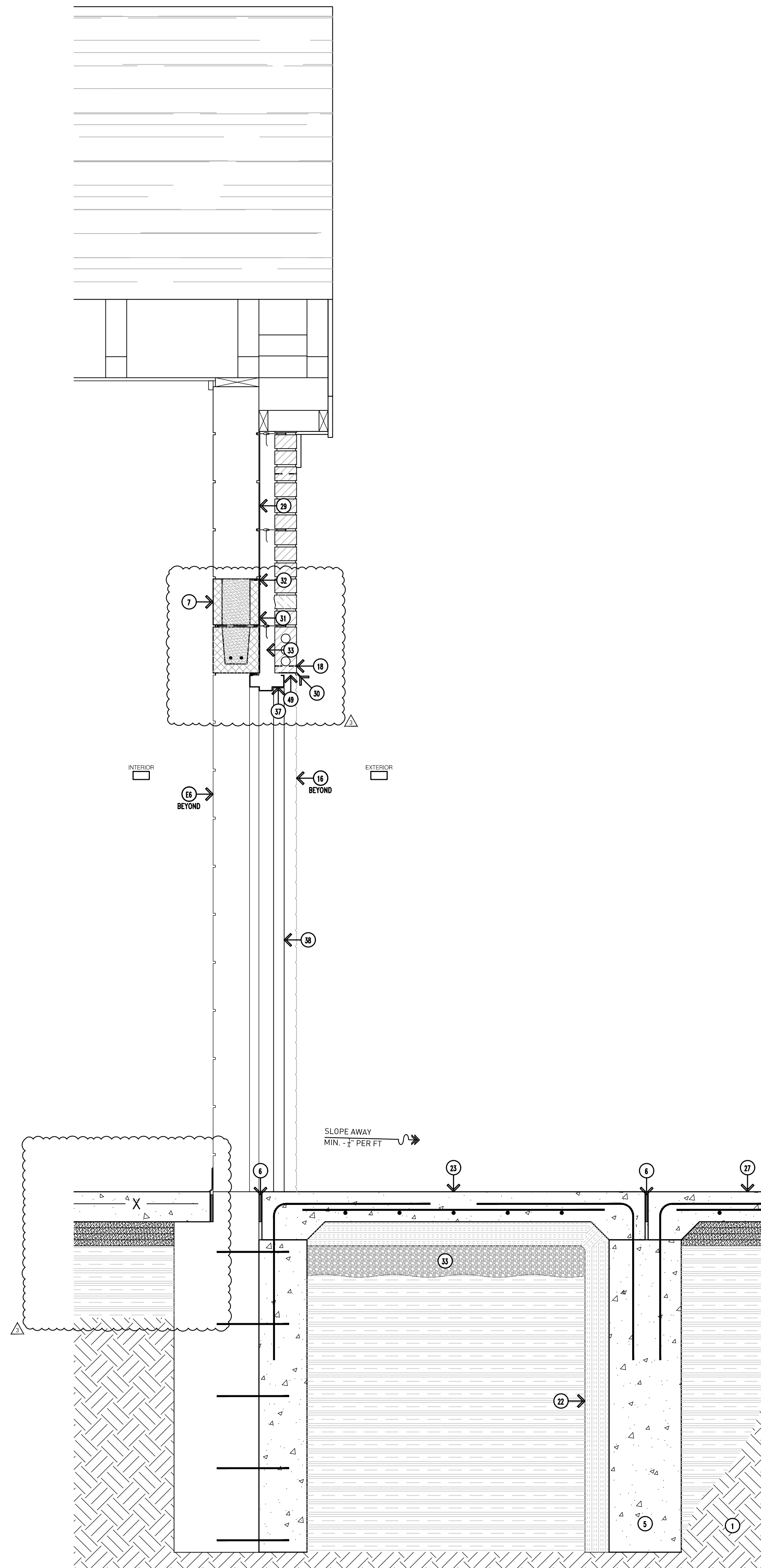
Exterior Wall Sections - Building B



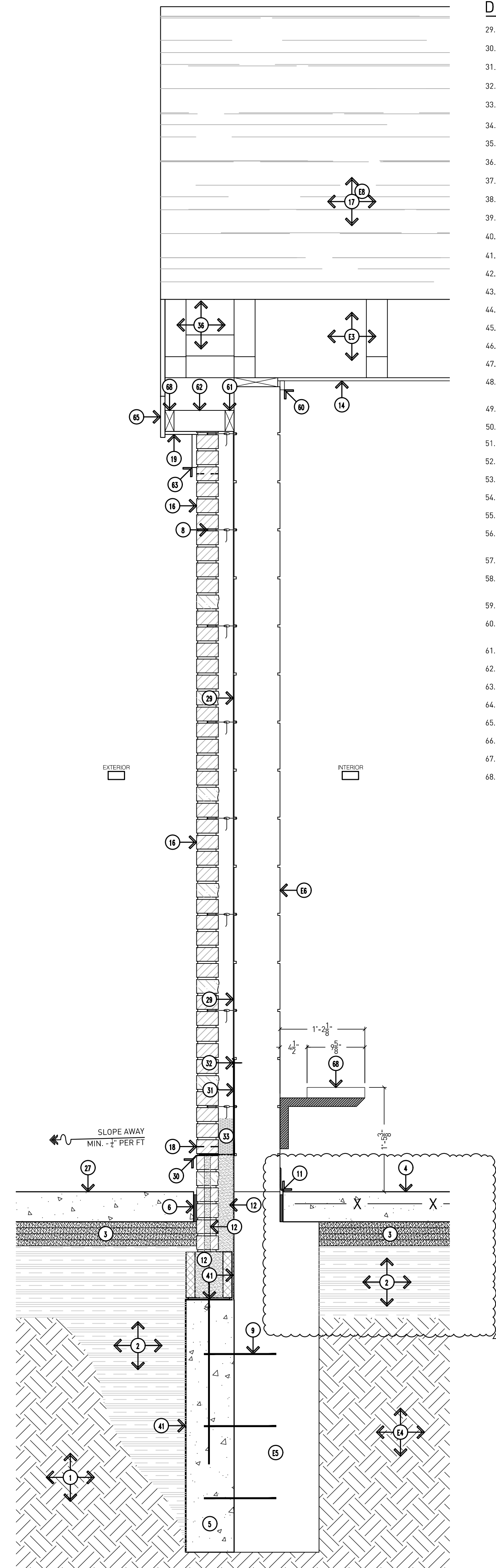
Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

A9.02



B4 Building B: Exterior Wall Section
 Scale: 1"=1'-0"
 REFER TO B3/A9.02 FOR TYPICAL NOTES



B3 Building B: Exterior Wall Section
 Scale: 1"=1'-0"

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.
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66. PREFINISHED ALUMINUM DRIP EDGE.
67. 2 x 4 BLOCKING.
68. HEAVY DUTY RATED, STEEL FRAMED WALL MOUNTED BENCH WITH ALUMINUM SEAT, LENGTHS TO SUIT CONDITIONS - PILOT ROCK, PRODUCT - WMB SERIES.

GENERAL NOTES:

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- 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.)
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- E6. WOOD FRAME CONSTRUCTION - EXACT CONDITIONS UNKNOWN.
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4. SEALED CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.
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10. EPOXY FLOOR COATING WITH INTEGRAL 4" COVED BASE.
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Addendum #3: 29 March 2023
 Addendum #1: 22 March 2023
 Bidding and Permits: 20 March 2023

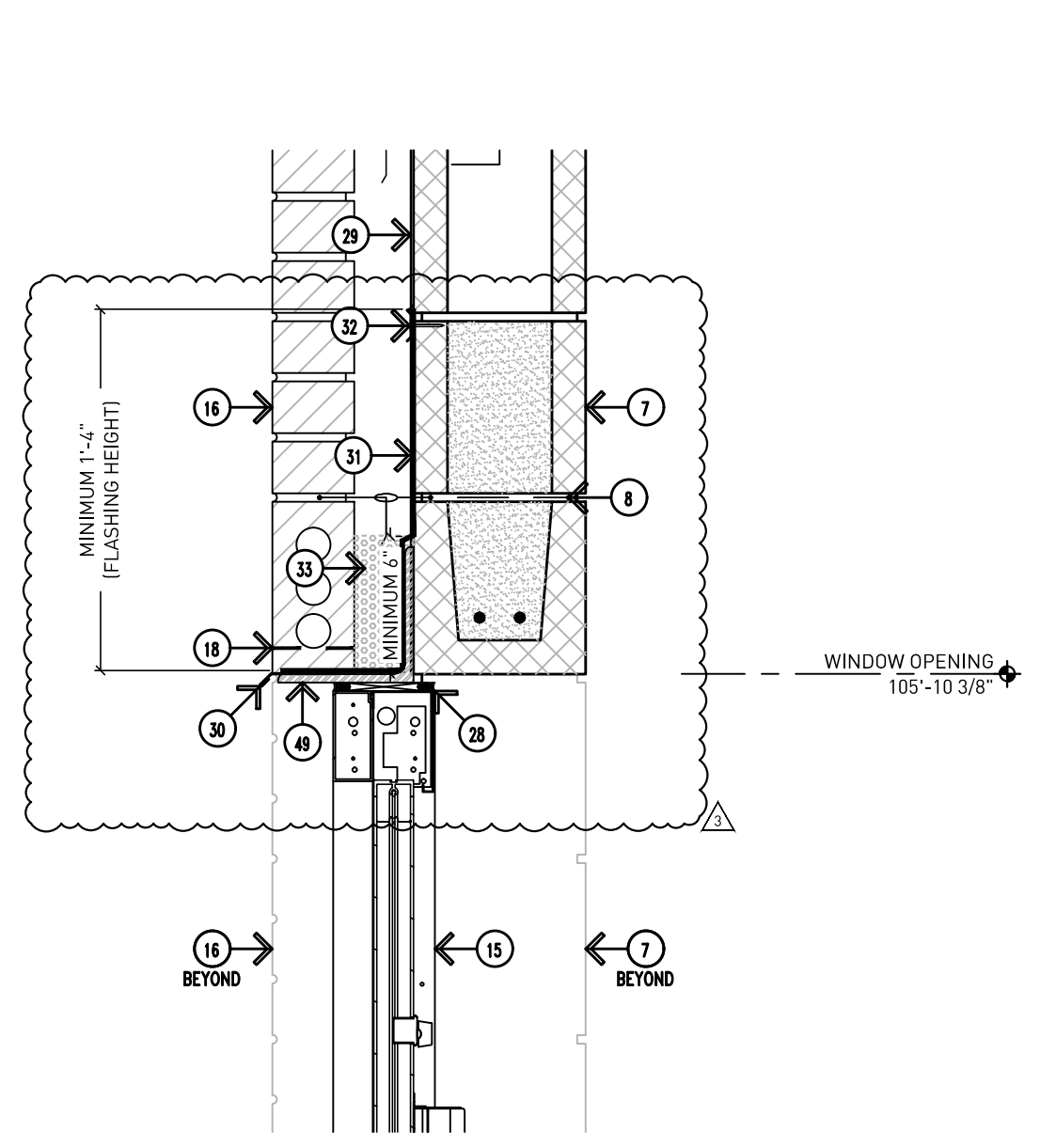
Exterior Wall Sections - Building B



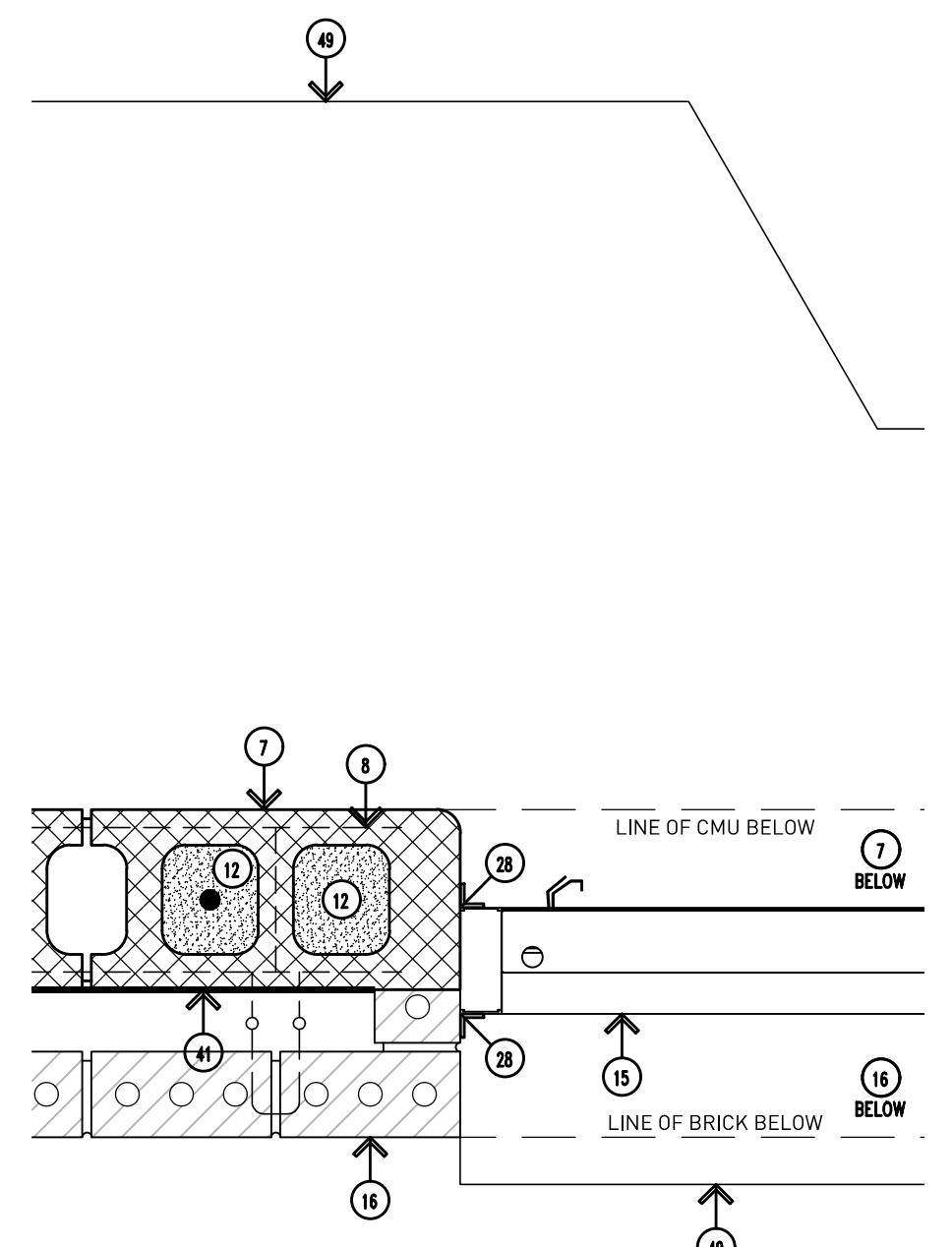
Crestwood School District
 Crestwood High School
 Field Building & Site Improvements

Project No. 5622

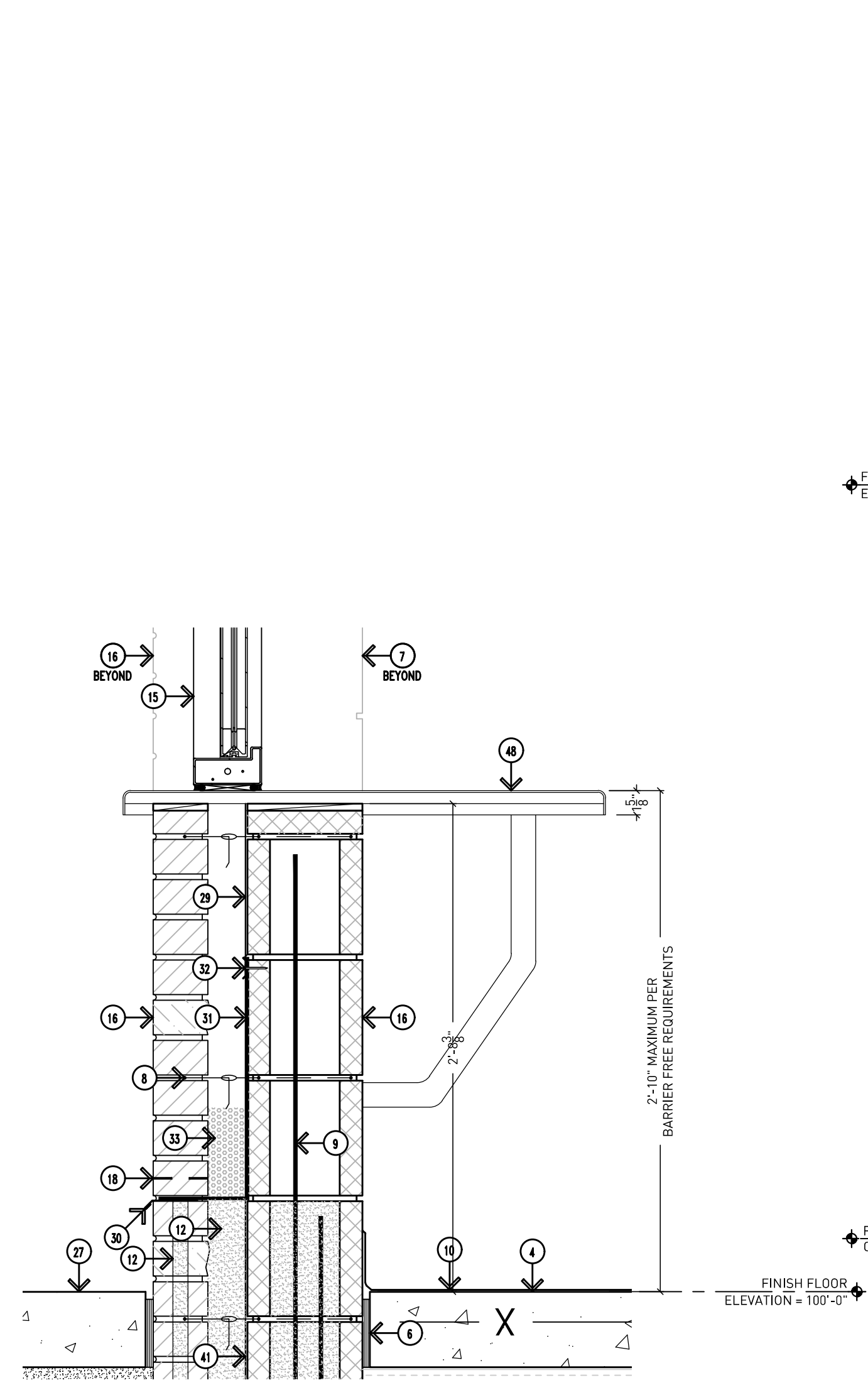
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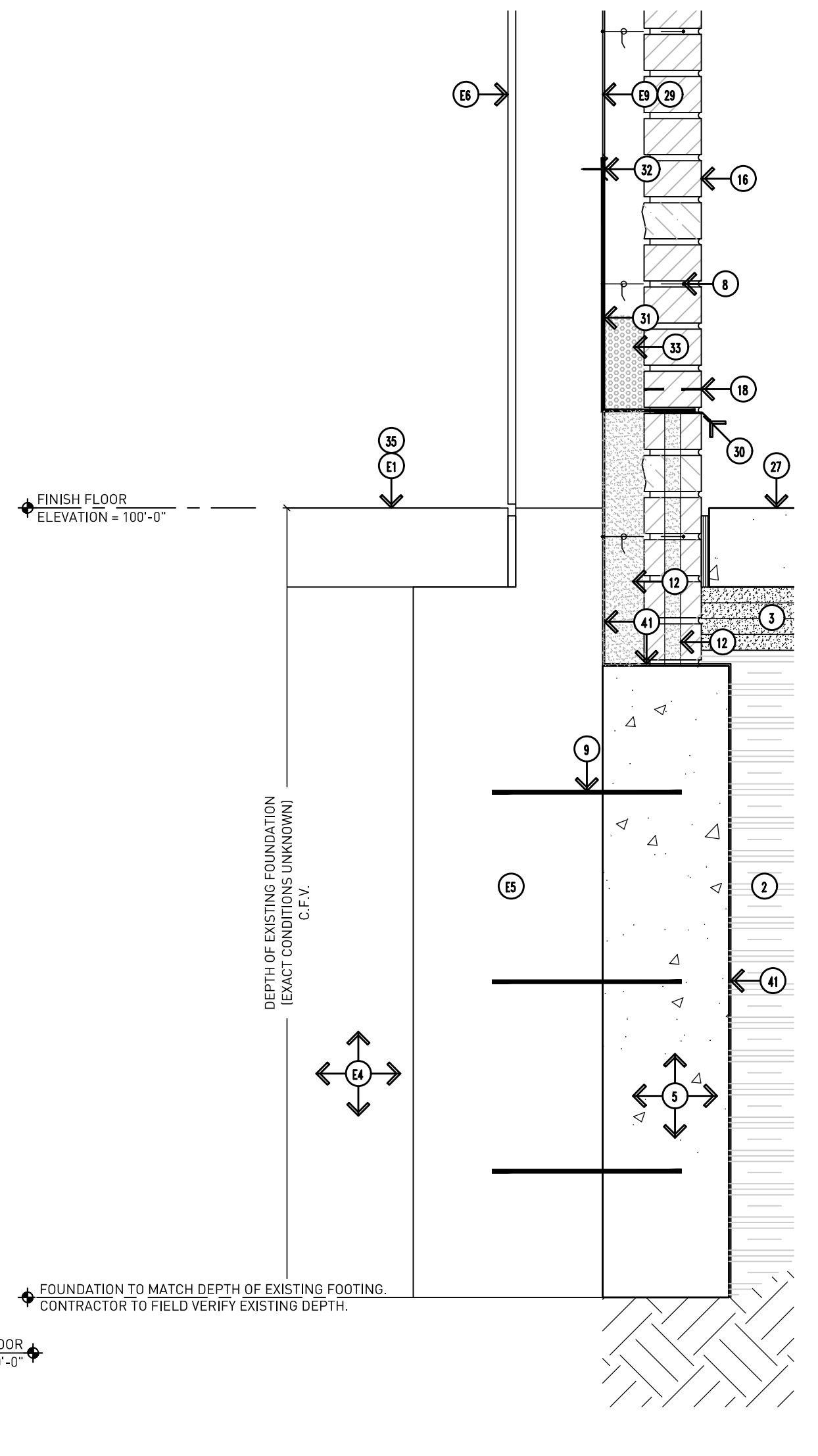
5 Building A: Typical Serving Window Head (Area 1)
Scale: 1-1/2"=1'-0"



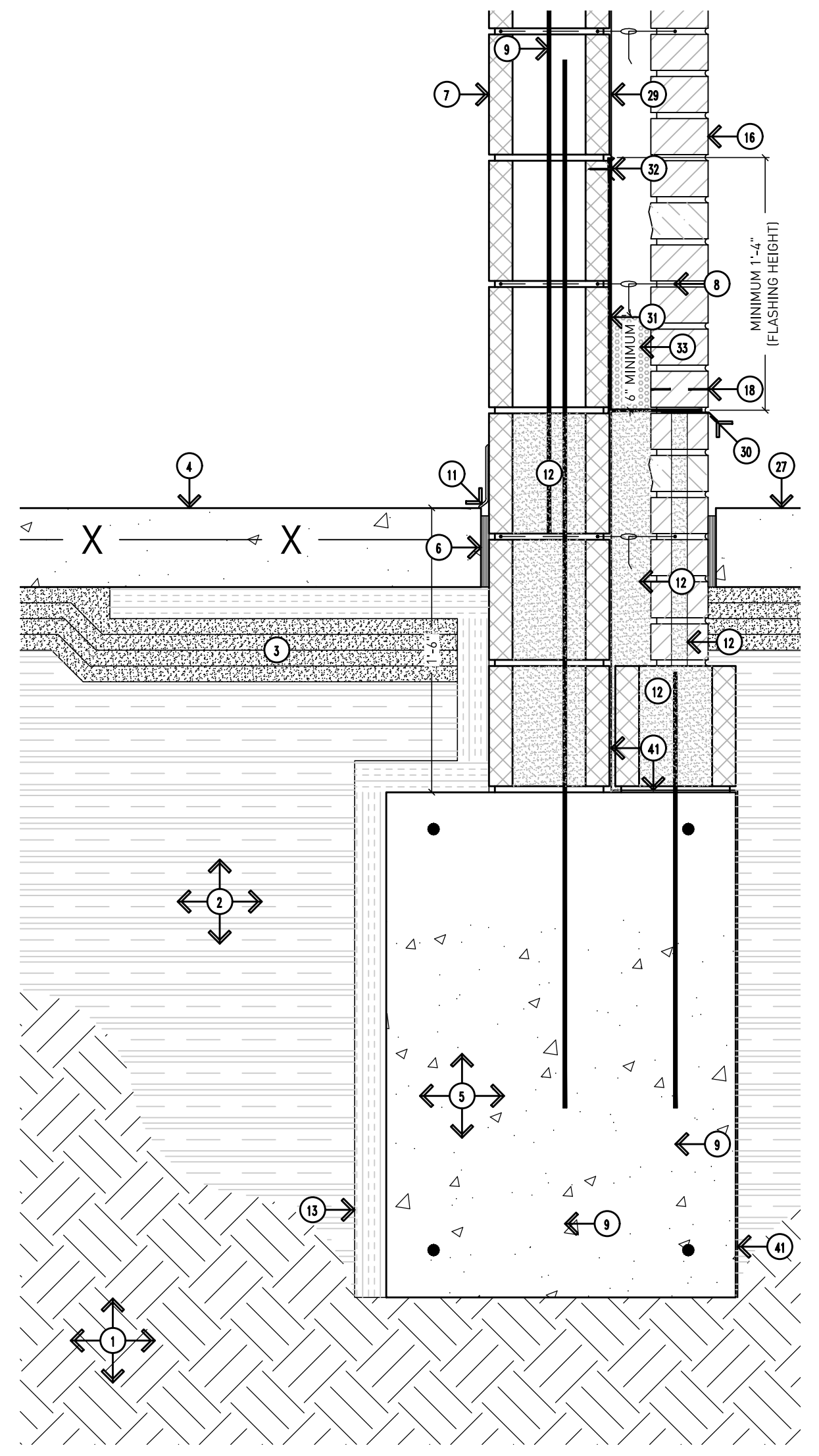
4 Building A: Typical Serving Window Jamb (Area 1)
Scale: 1-1/2"=1'-0"



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"

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.
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34. VERTICAL ALUMINUM SIDING - REFER TO SPECIFICATIONS.
35. SEAL EXISTING CONCRETE FLOOR - REFER TO FINISH SCHEDULE.
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51. OVERHEAD DOOR METAL TRACK.
52. METAL TRACK BRACKET.
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65. 1" x 4" WOOD FASCIA - WITH ALUMINUM TRIM.
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- 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.
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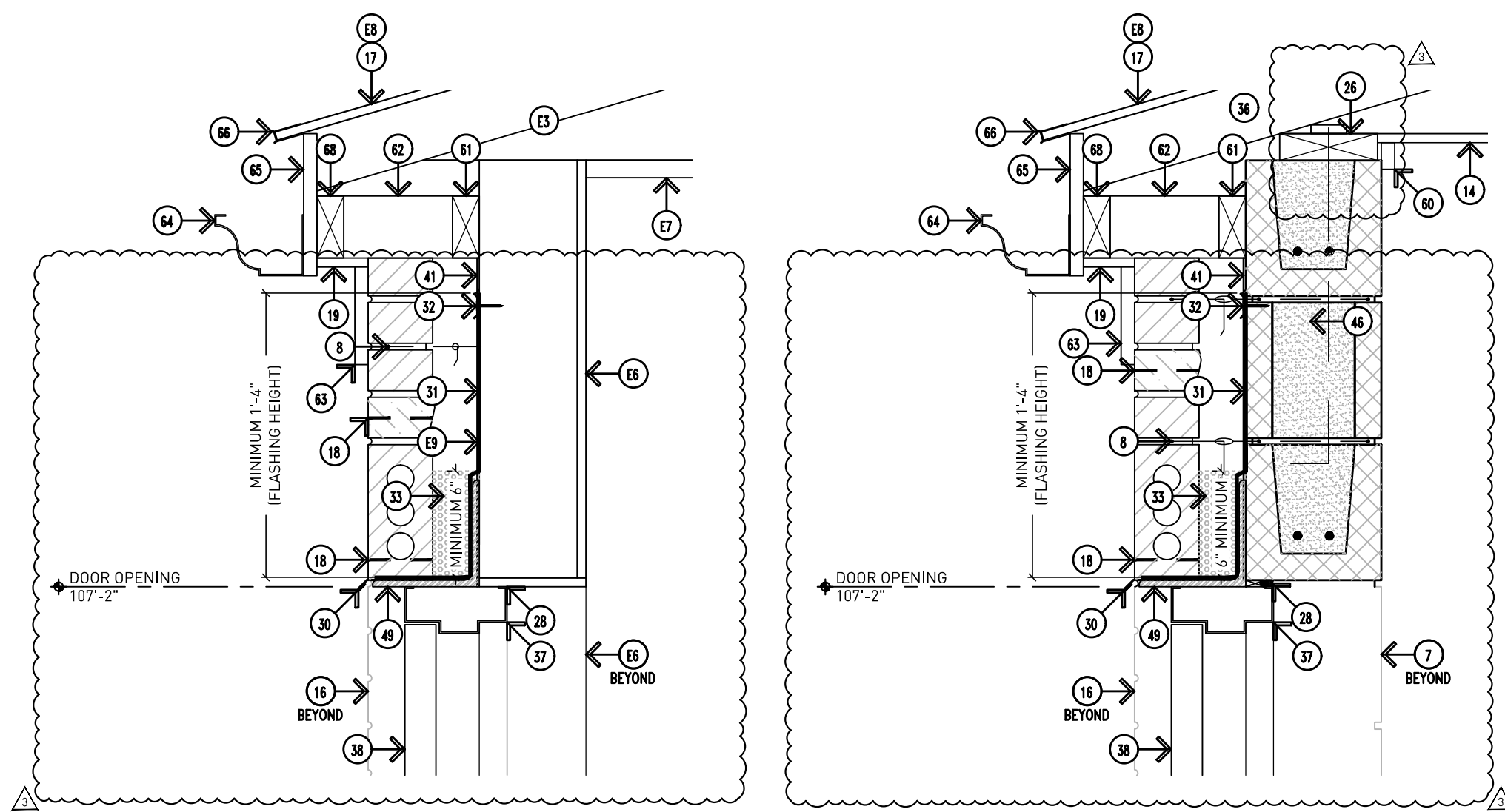
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4. SEALED CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.
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8. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
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10. EPOXY FLOOR COATING WITH INTEGRAL 4" COVED BASE.
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Bidding and Permits: 20 March 2023



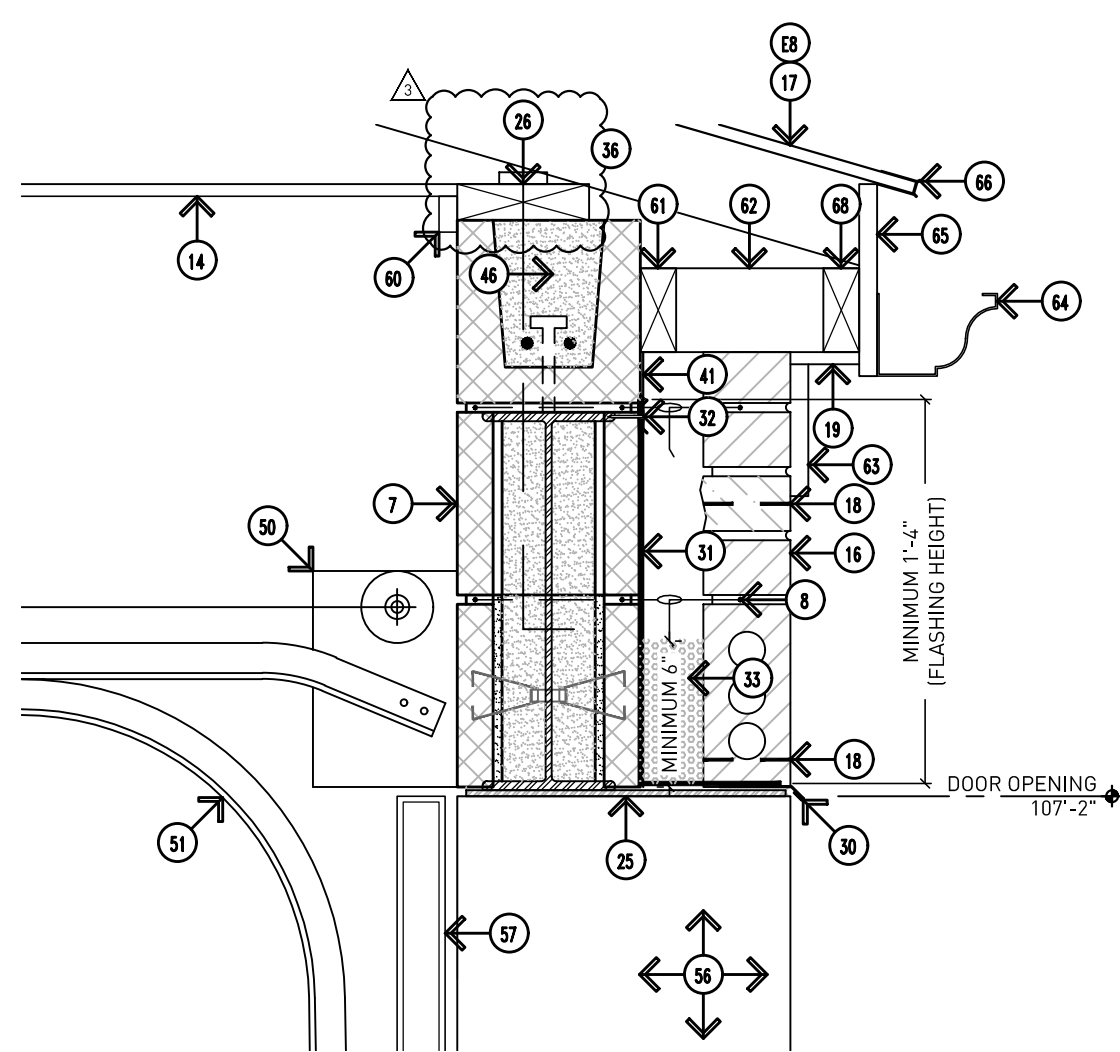
Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622 A9.10

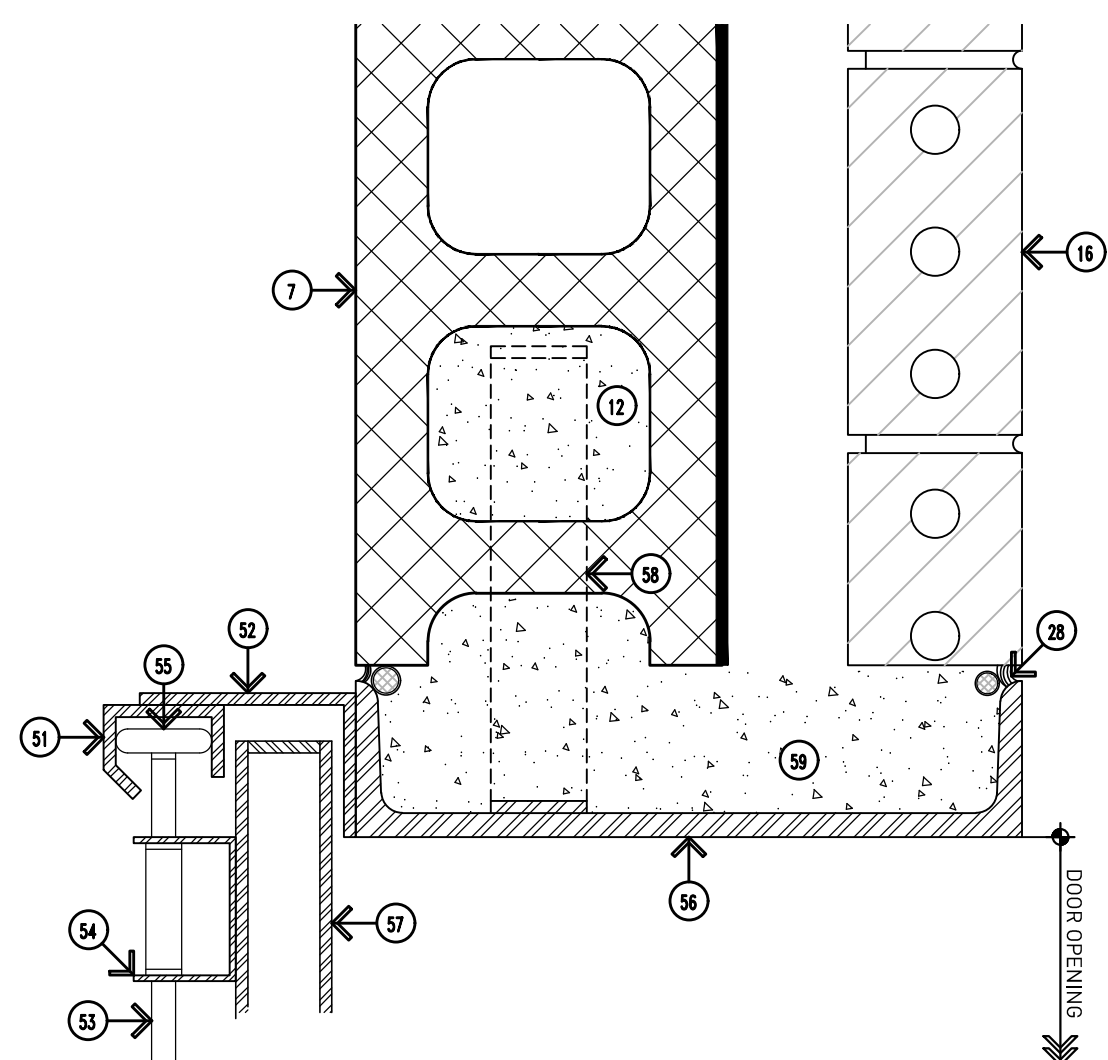


8 Building A: Typical Door Head (Area 2)
A9.11 Scale: 1-1/2"=1'-0"

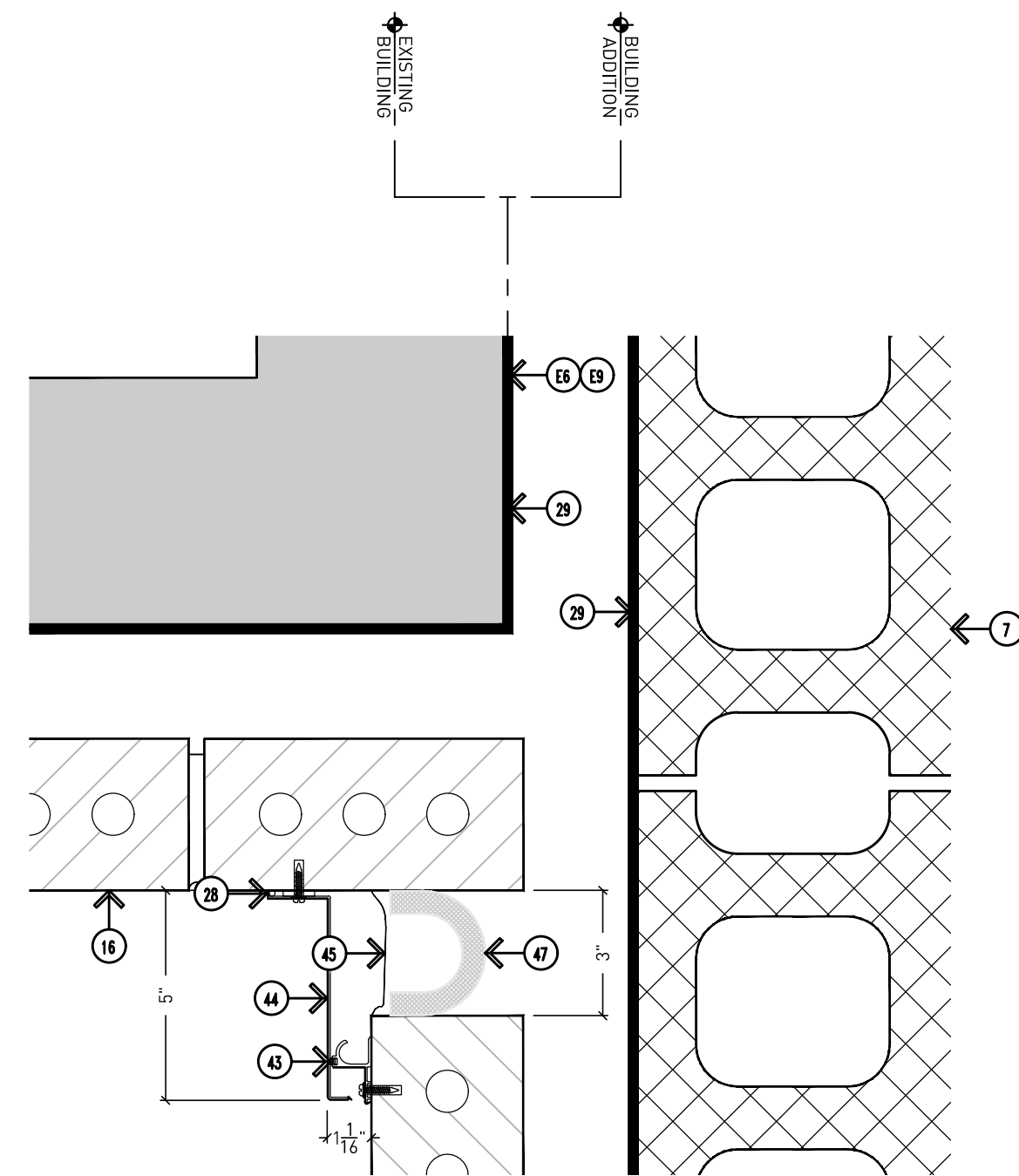
7 Building A: Typical Door Head (Area 1)
A9.11 Scale: 1-1/2"=1'-0"



6 Building A: Typical O/H Door Jamb (Area 1)
A9.11 Scale: 1-1/2"=1'-0"

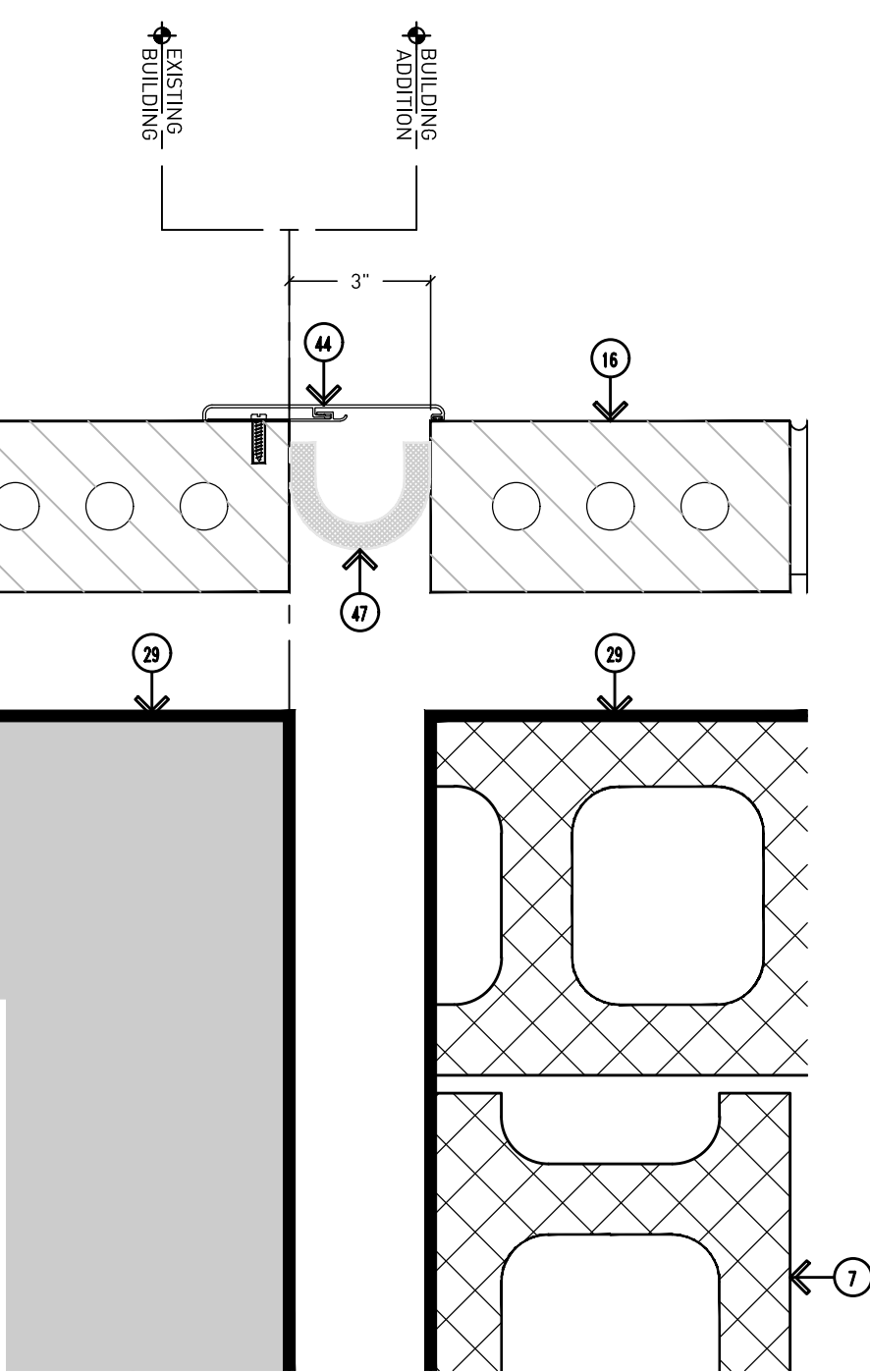


3 Building A: Typical O/H Door Jamb (Area 1)
A9.11 Scale: 3"=1'-0"



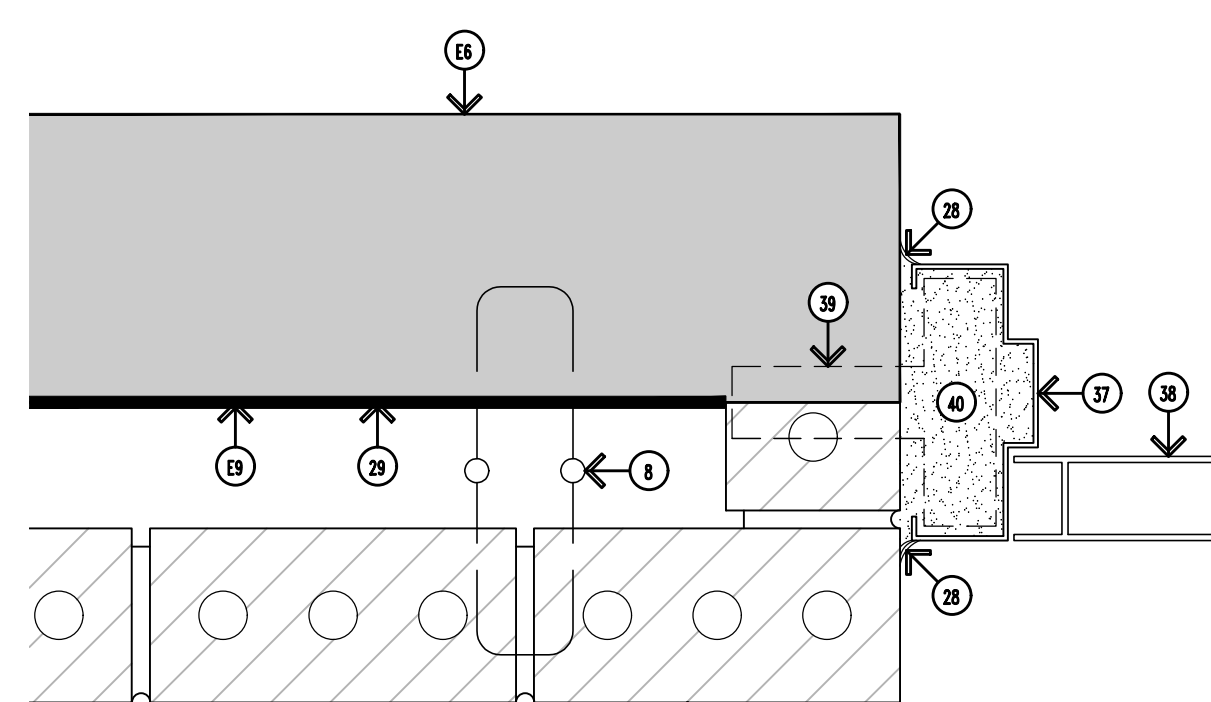
5 Building A: Typical Control Joint (South)
A9.11 Scale: 3"=1'-0"

REFER TO MM SYSTEMS SERIES WJL 2-1 FOR FURTHER INFORMATION ON WALL EXPANSION DETAIL.

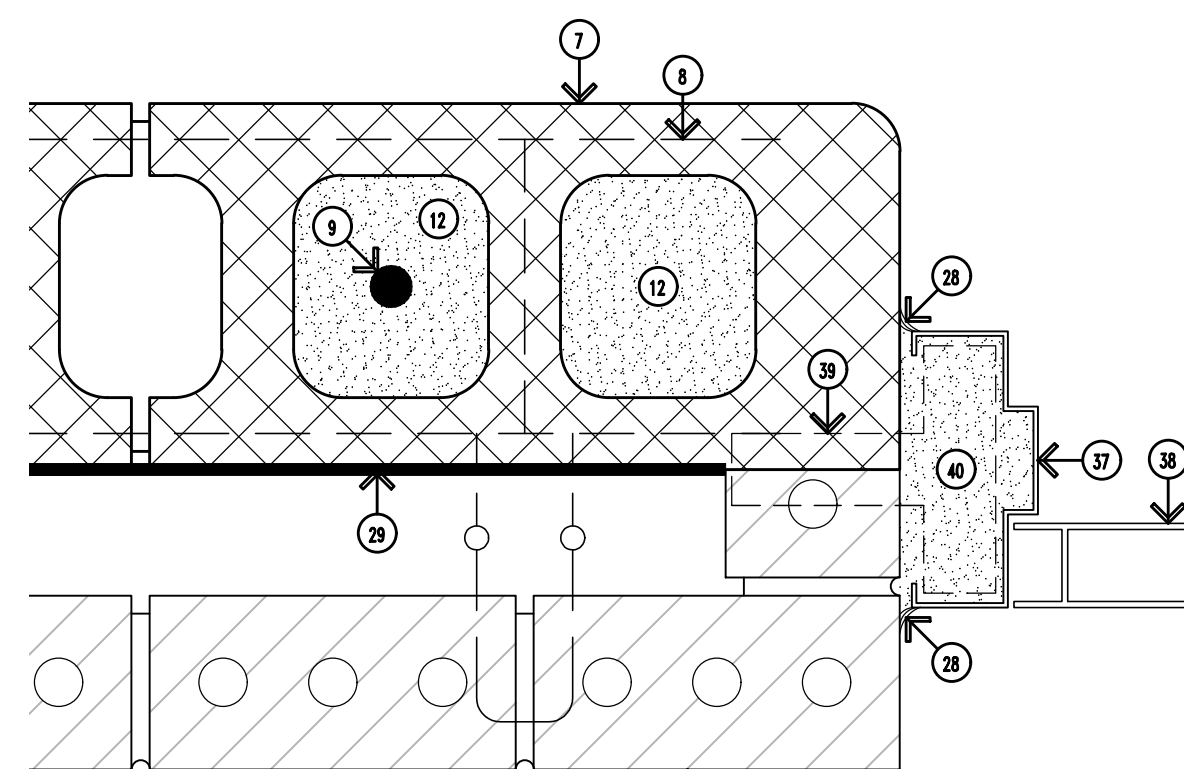


4 Building A: Typical Control Joint (North)
A9.11 Scale: 3"=1'-0"

REFER TO MM SYSTEMS SERIES EX-K FOR FURTHER INFORMATION ON WALL EXPANSION DETAIL.



2 Building A: Typical Door Jamb (Area 2)
A9.11 Scale: 3"=1'-0"



1 Building A: Typical Door Jamb (Area 1)
A9.11 Scale: 3"=1'-0"

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, LENGTHS TO SUIT CONDITIONS - PILOT ROCK, PRODUCT - WMB SERIES.

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. 2" CROSS FURRING SPACED PER MANUFACTURER'S RECOMMENDATIONS.
21. SOFFIT FRAMING - PRESERVATIVE TREATED 2x @ 24" O.C.
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 6" 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).

Addendum #3: 29 March 2023
Bidding and Permits: 20 March 2023

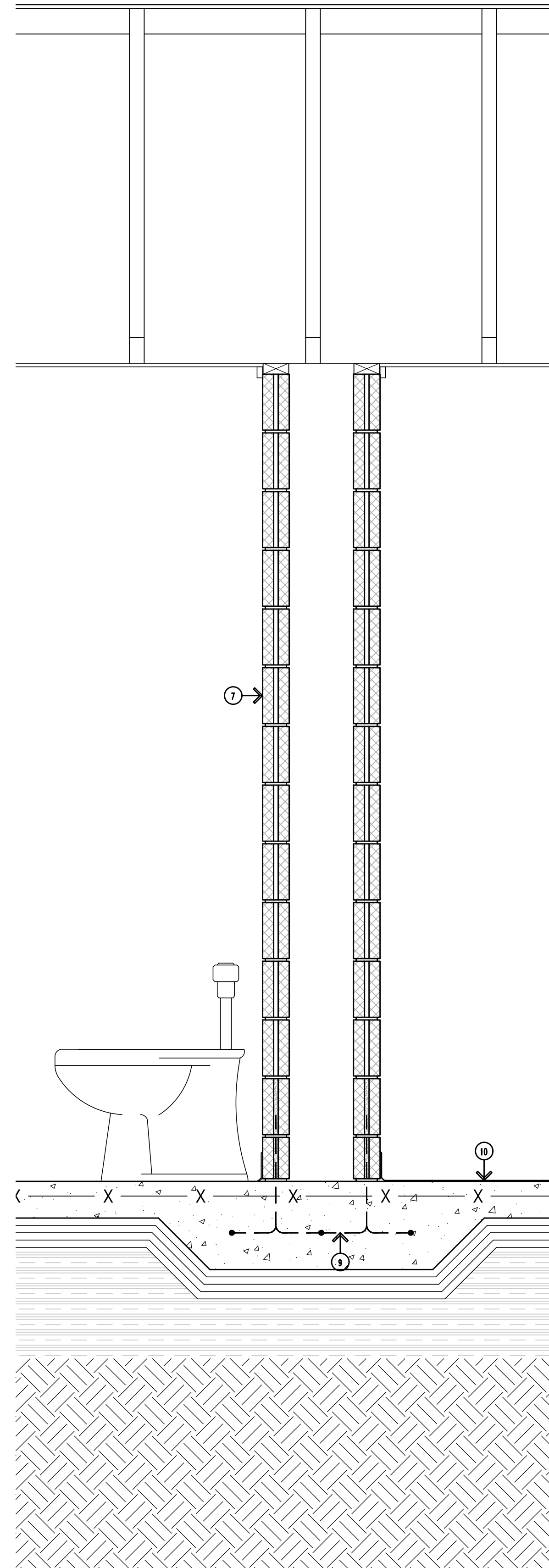
Exterior Details



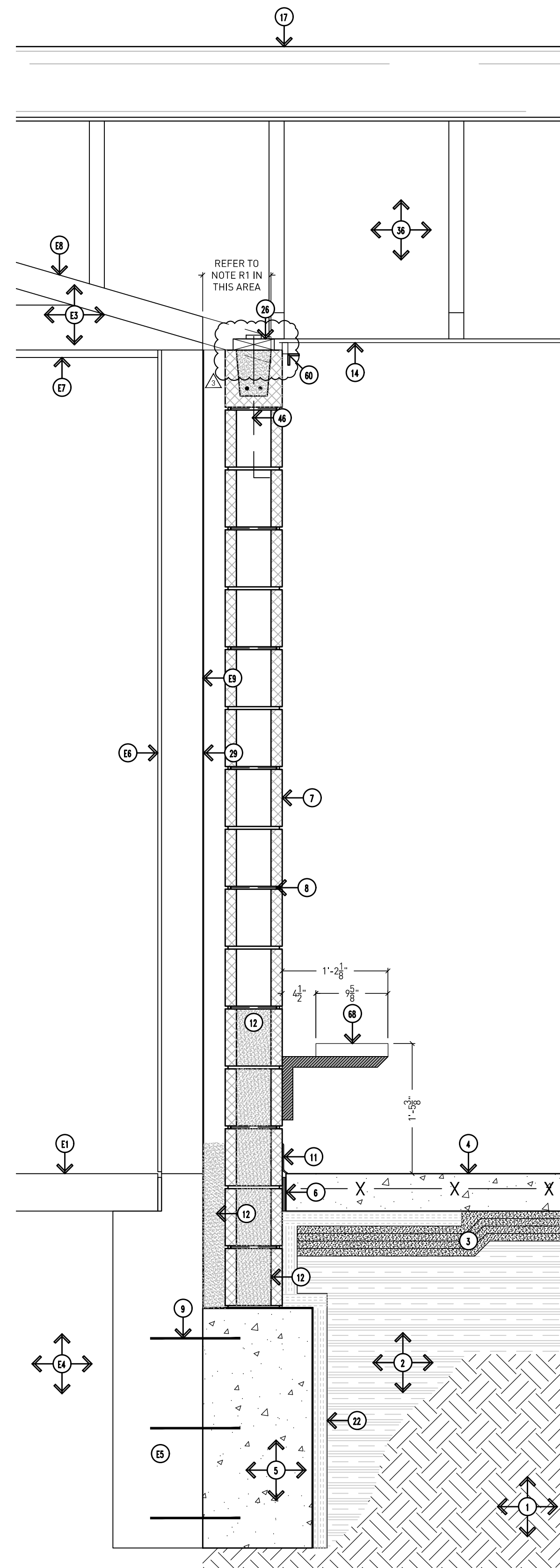
Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

A9.11



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"

DRAWING NOTES (CONTINUED):

29. CONTINUOUS SPRAY-APPLIED VAPOR BARRIER FROM FOUNDATION TO ROOFING.
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Addendum #3: 29 March 2023
 Addendum #1: 22 March 2023
 Bidding and Permits: 20 March 2023

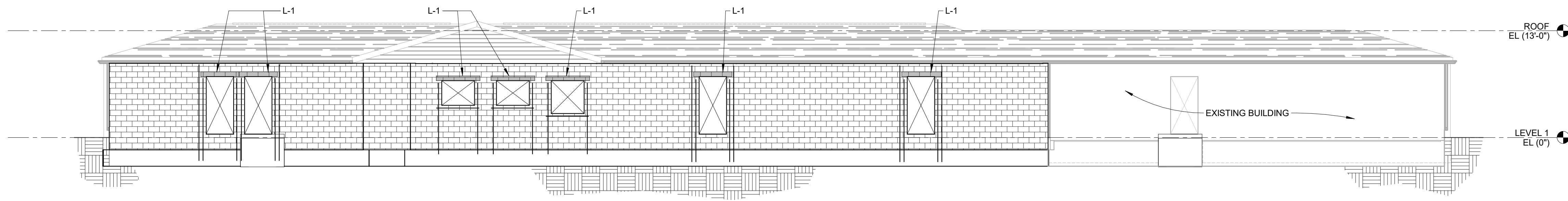
Interior Wall Sections



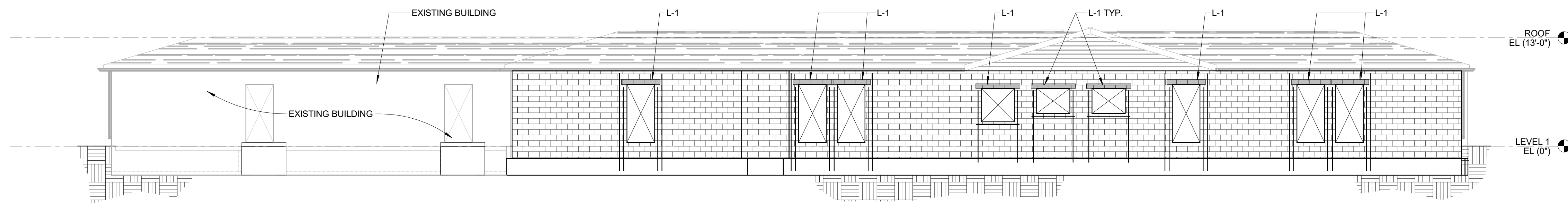
Crestwood School District
 Crestwood High School
 Field Building & Site Improvements

Project No. 5622

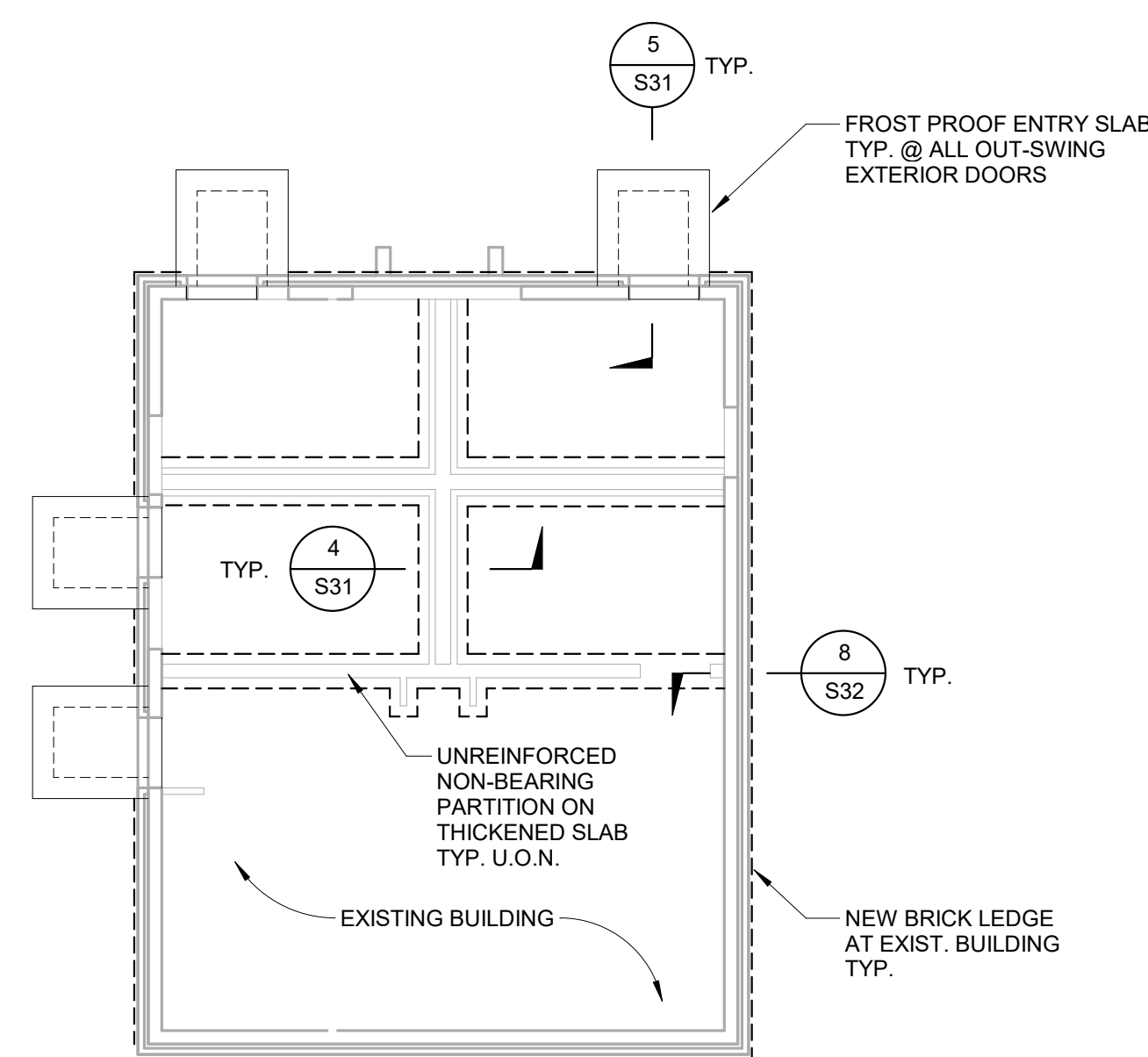
A9.50



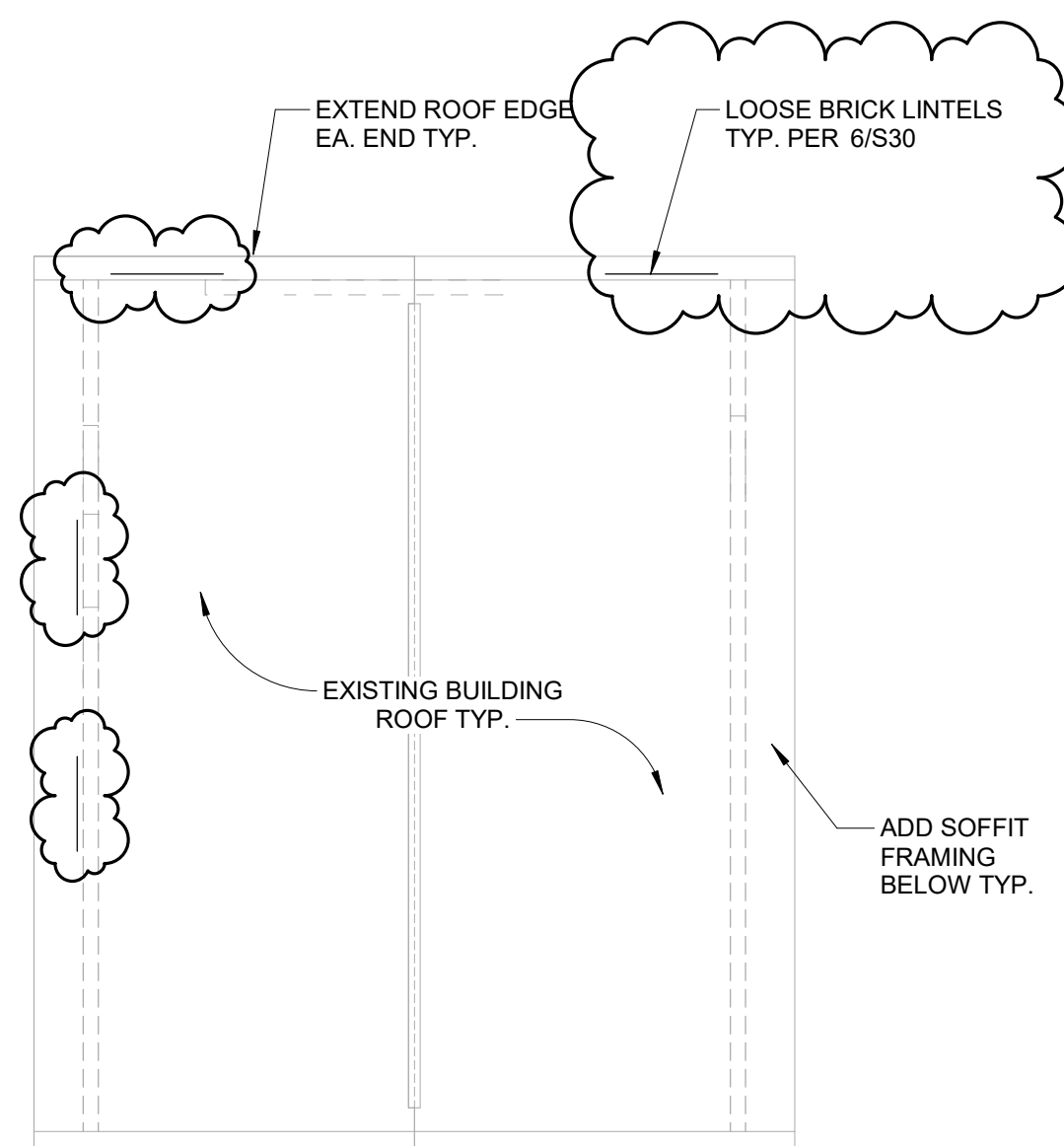
1 BUILDING A NORTH
1/8" = 1'-0"



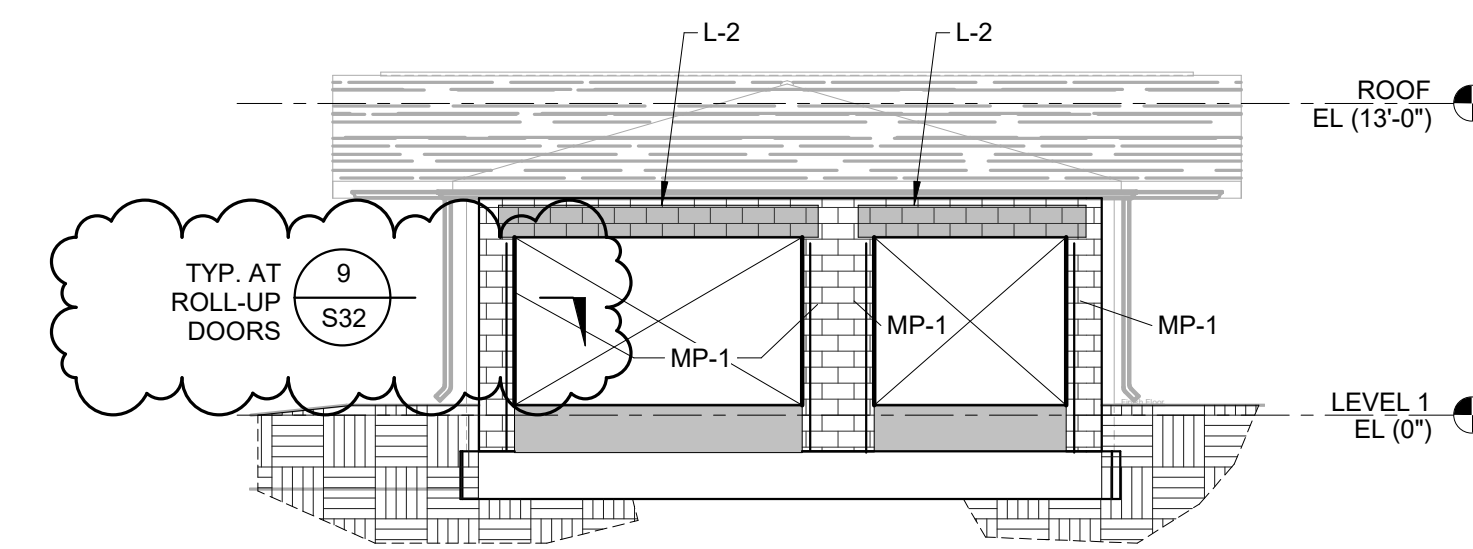
2 BUILDING A SOUTH
1/8" = 1'-0"



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"

IMEG
33533 W 12 MILE, SUITE 200
FARMINGTON HILLS, MI 48331
248.344.2800 FAX: 248.344.1650
www.imegcorp.com

Bidding and Permits 20 March, 2023
Addendum #3 29 March, 2023

BUILDING PLANS & ELEVATIONS

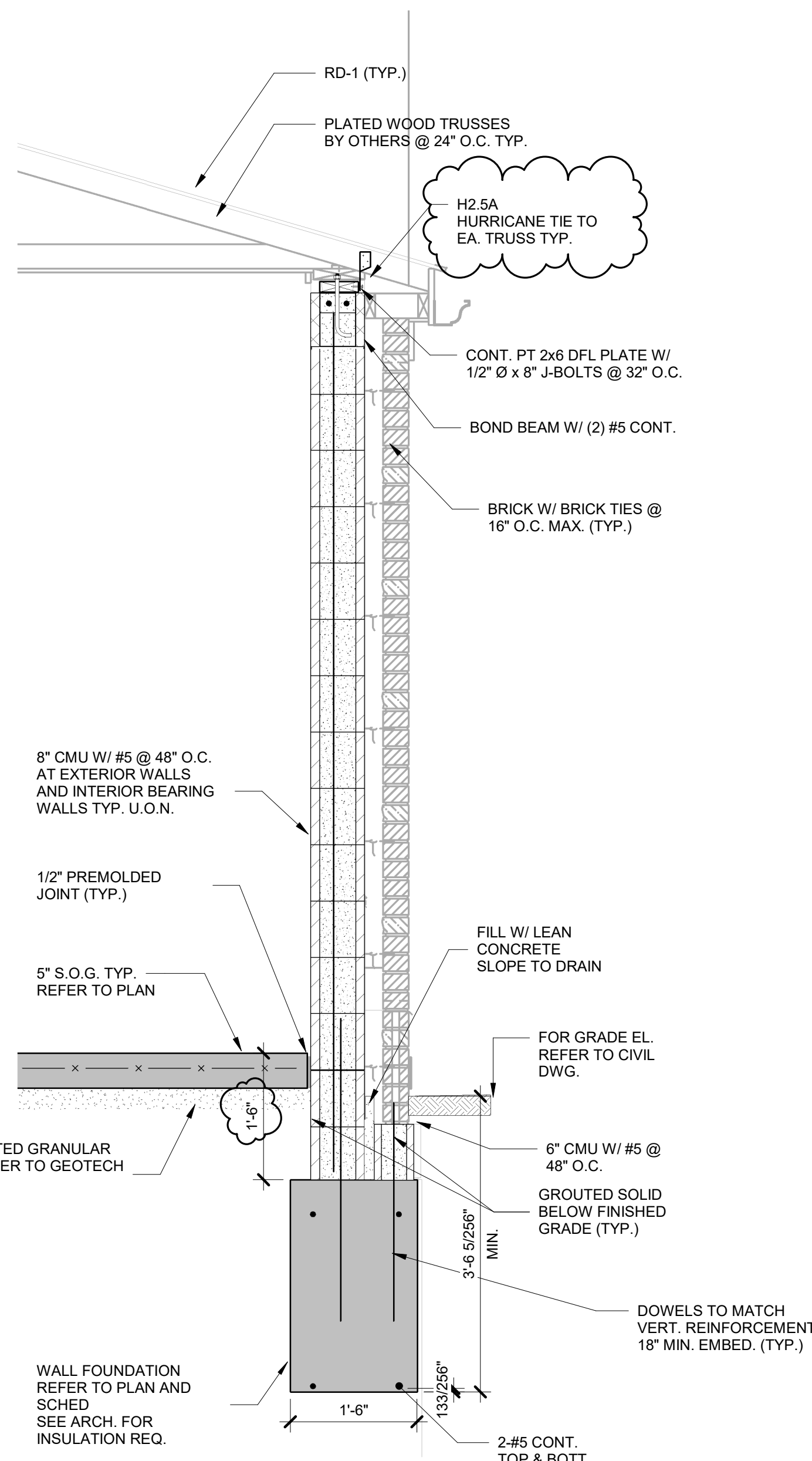


CRESTWOOD HS FIELD BUILDING

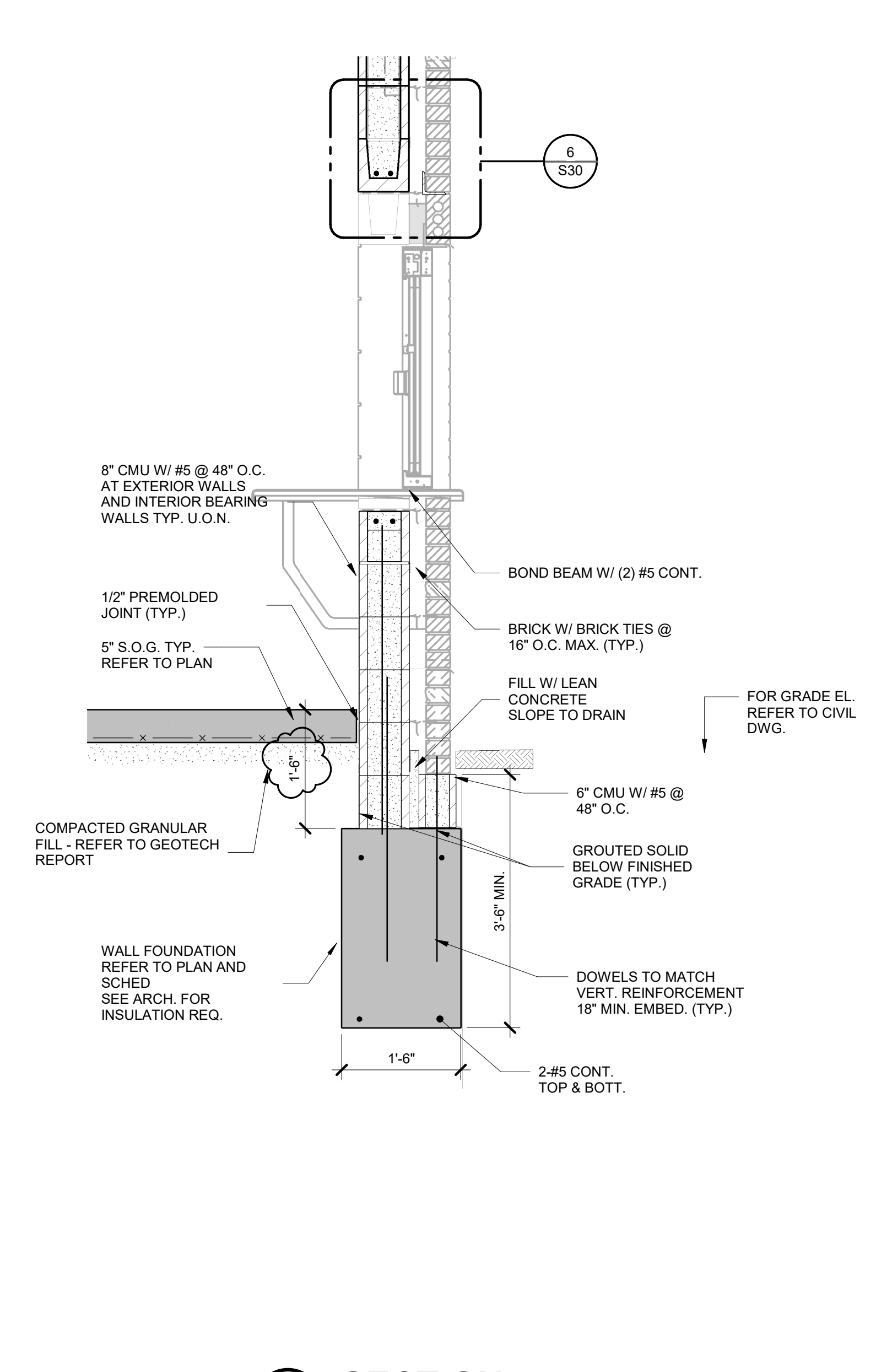
PROJECT NO. 5622

S11

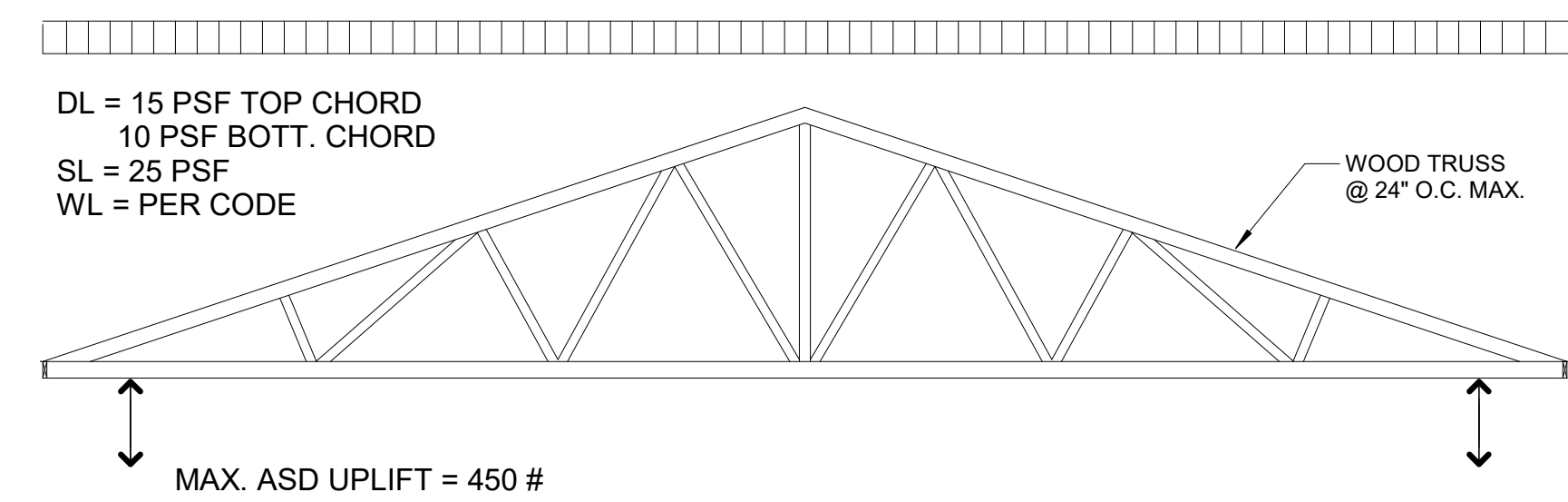




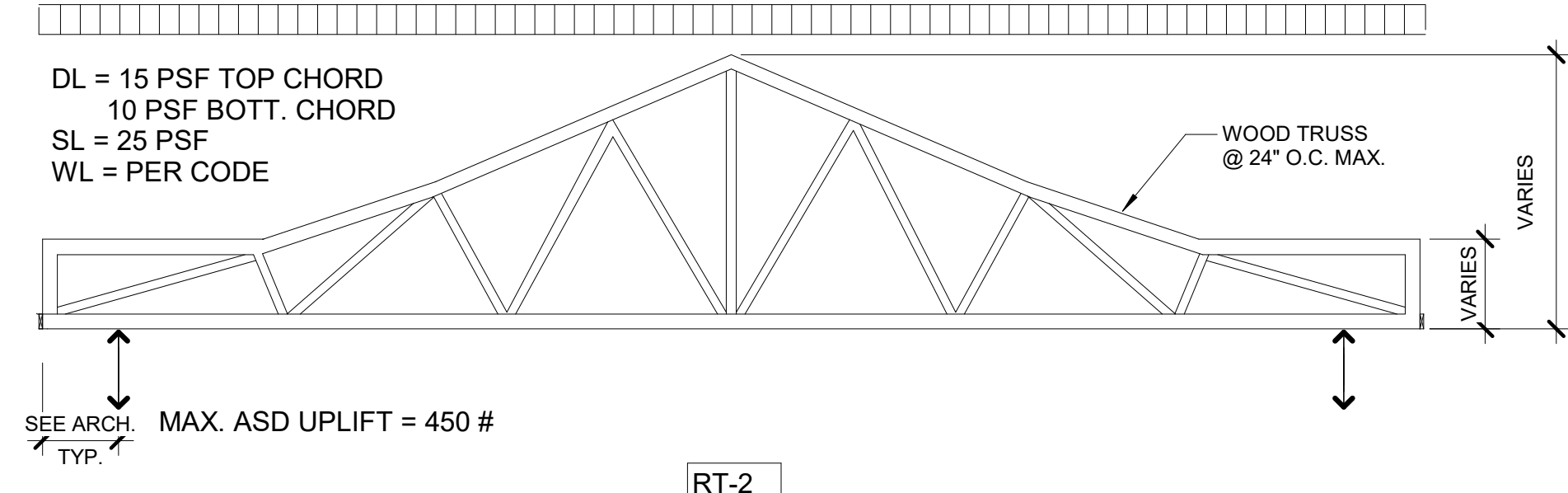
1 SECTION
3/4" = 1'-0"



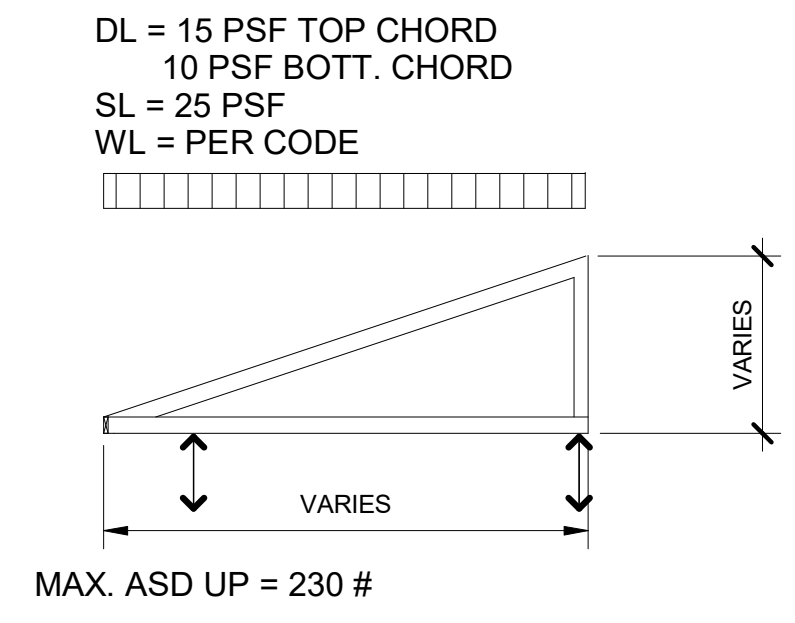
2 SECTION
3/4" = 1'-0"



RT-1



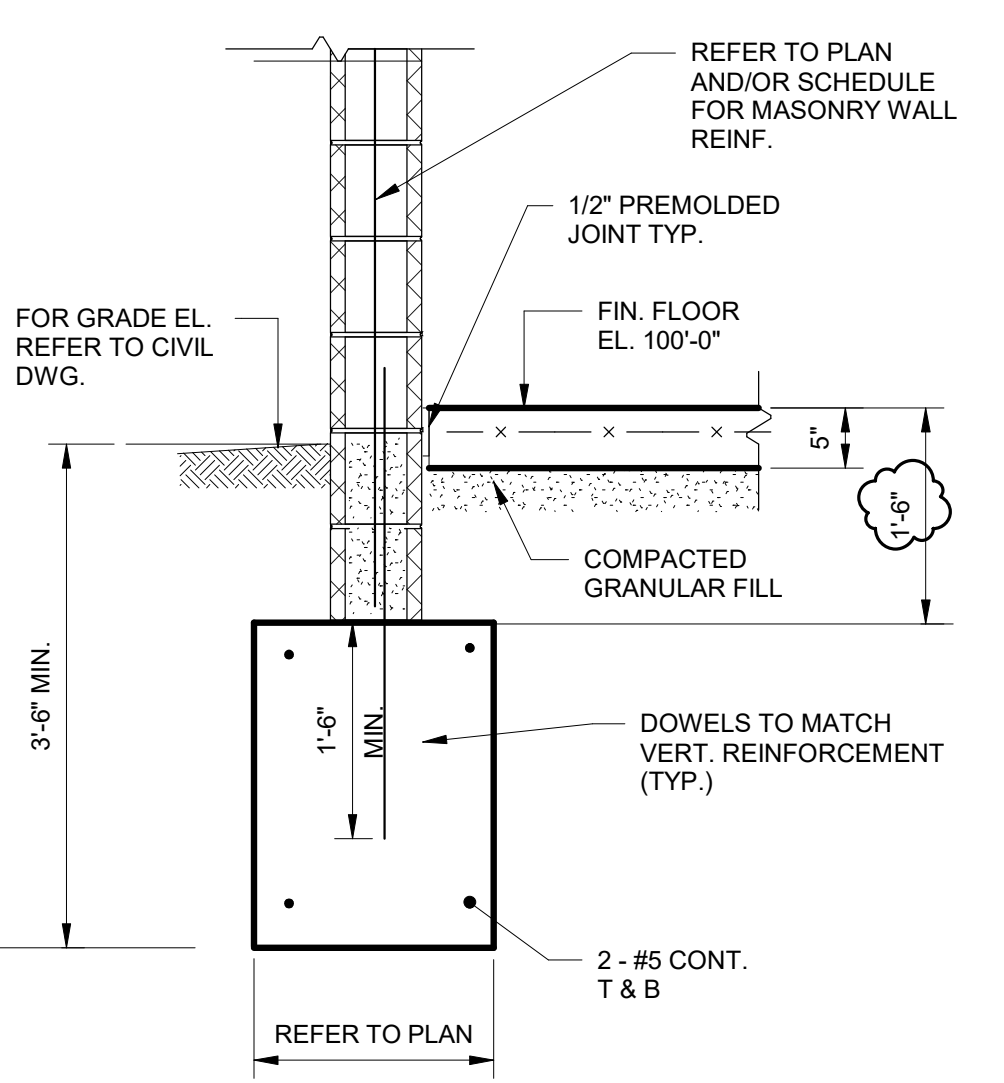
RT-2



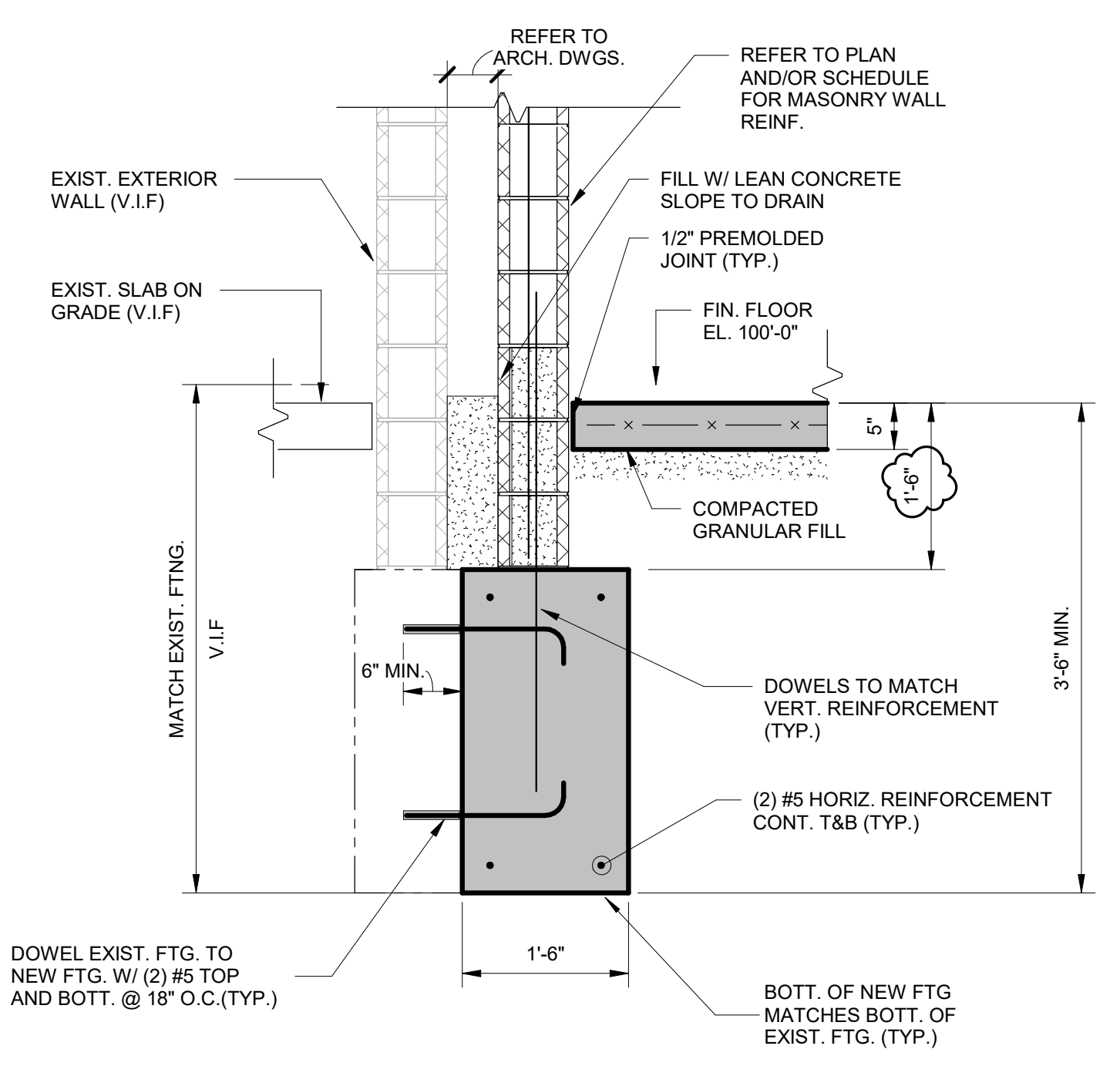
RT-3

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.

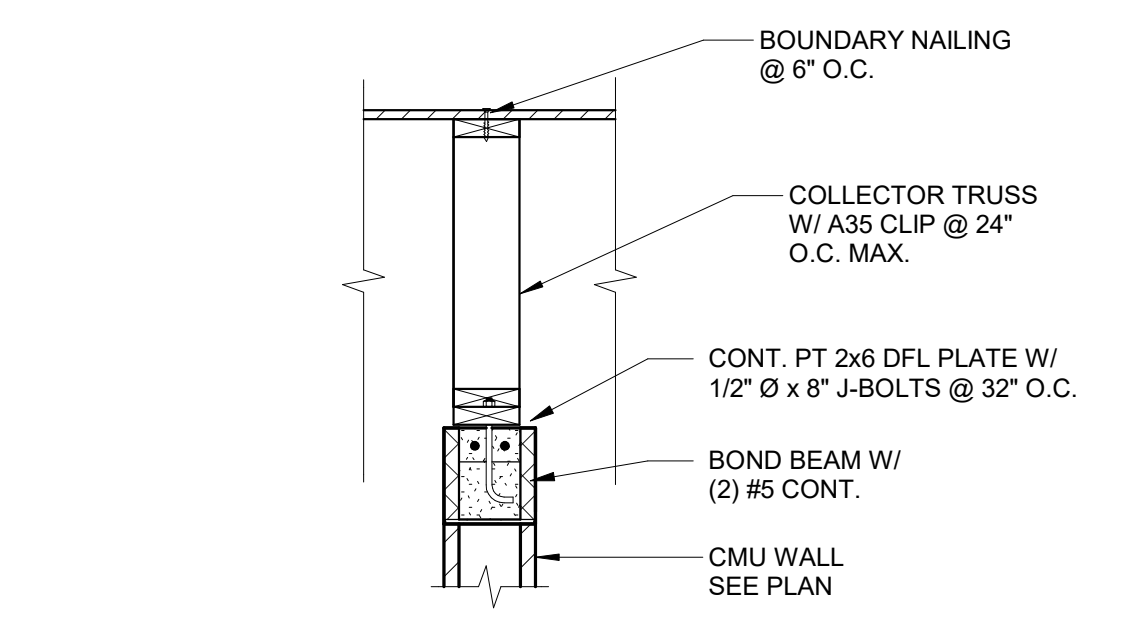
3 TRUSS DIAGRAMS
3/16" = 1'-0"



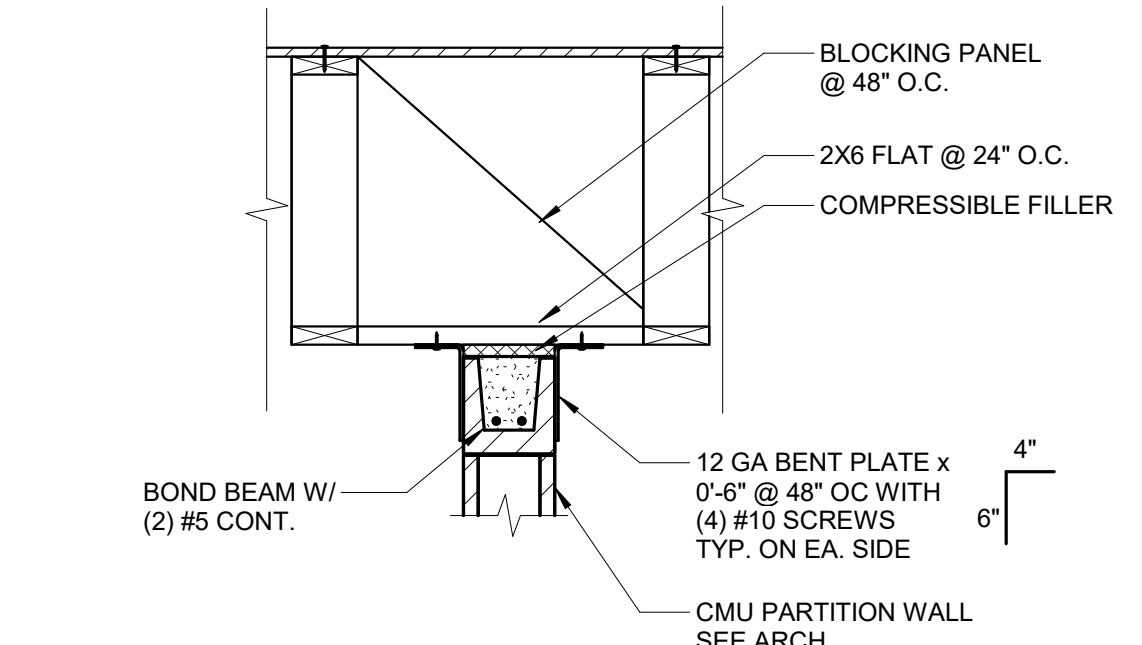
4 TYPICAL FOUNDATION SECTION
3/4" = 1'-0"



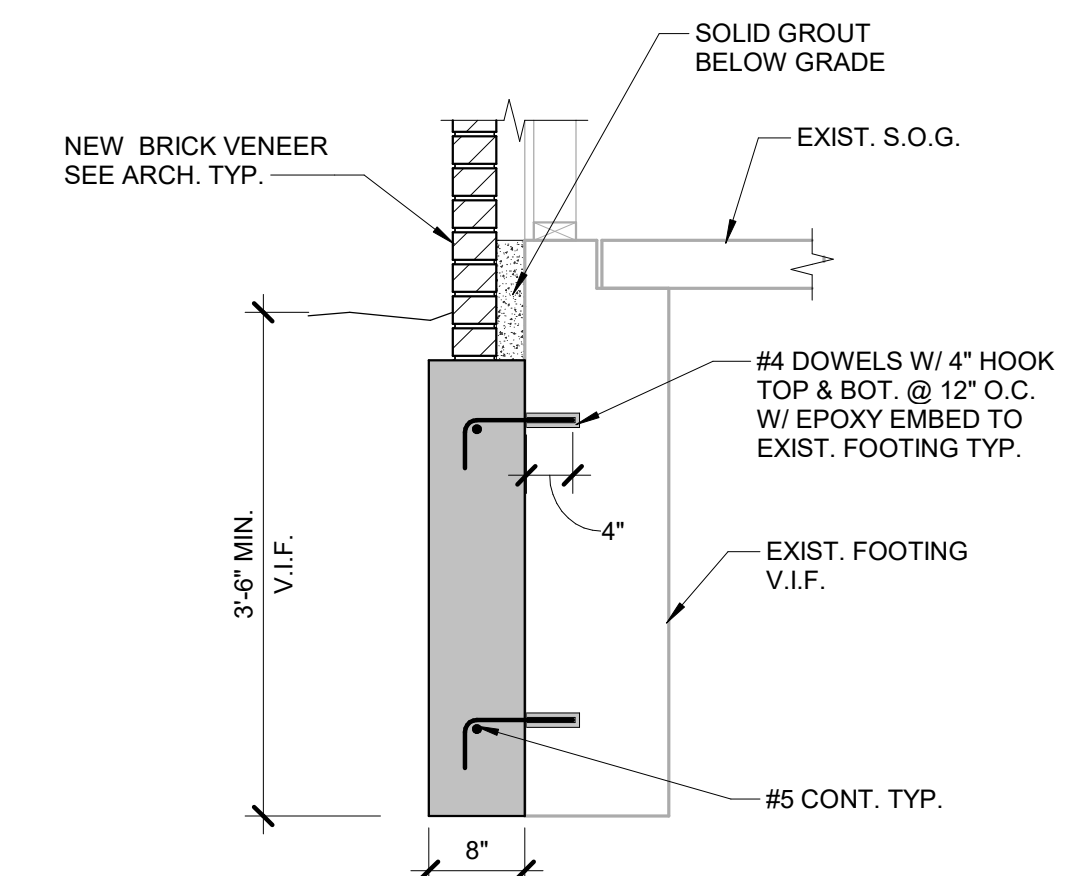
5 SECTION
3/4" = 1'-0"



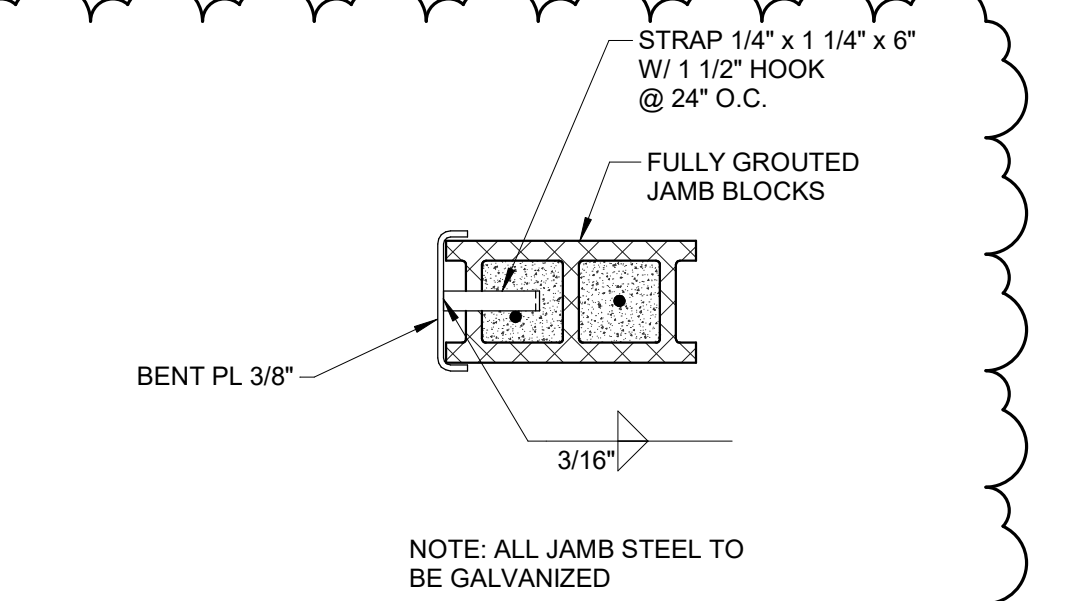
6 COLLECTOR TRUSS TO CMU
3/4" = 1'-0"
S_M-306



7 NON-STRUCTURAL CMU WALL BRACING TO WOOD TRUSSES
3/4" = 1'-0"
S_M-306



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



9 BENT PLATE JAMB
1" = 1'-0"

NOTES:
 1. PROVIDE THE BENT PLATE CLIP ANGLES ON ALL INTERIOR NON-STRUCTURAL CMU PARTITION WALLS. SEE ARCH DRAWINGS FOR LOCATION OF ALL WALLS



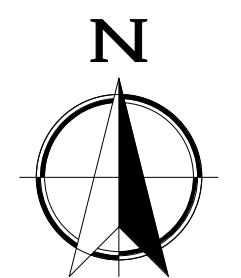
Bidding and Permits Addendum #3 20 March, 2023 29 March, 2023

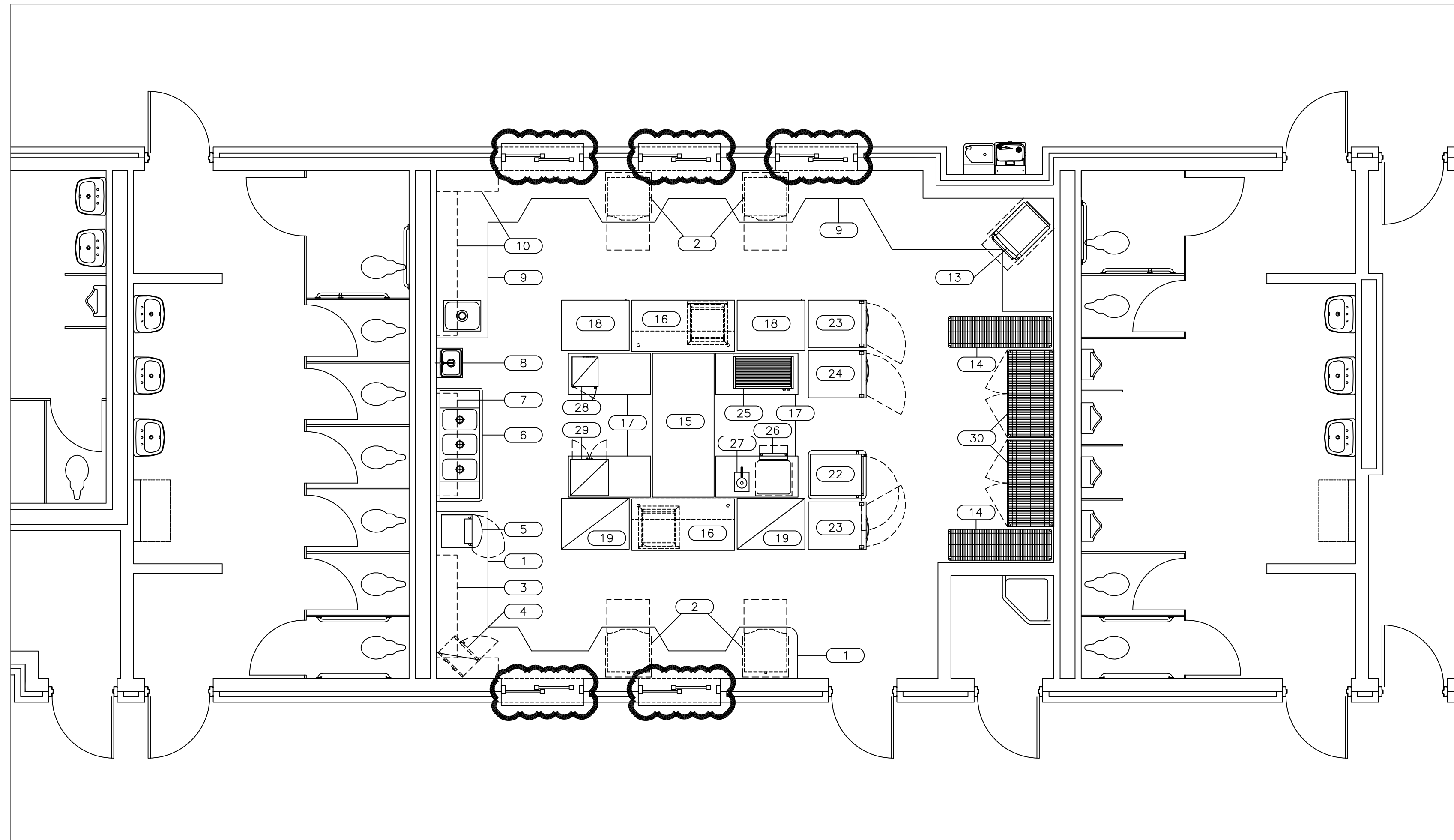
EHRESMAN ARCHITECTS
ehresmanarchitects.com

CRESTWOOD HS FIELD BUILDING

PROJECT NO. 5622 **S32**

803 W. Big Beaver Road, Suite 350, Troy, MI 48064 | 248.244.9710 ©Ehresman 2022





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	

Addendum #3: 29 March 2023
 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



545-A North Saginaw Street
 Lapeer, MI 48446
 810-667-3100
 Fax 810-667-3101



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FOOD SERVICE EQUIPMENT

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes food service equipment indicated on Drawings and schedules.
- B. Related Sections include the following:
 - 1. Division 05 5000 Section "Metal Fabrications" for equipment supports.
 - 2. Division 23 Sections "Mechanical" for supply and exhaust fans; exhaust ductwork; service roughing-ins; drain traps; atmospheric vents; valves, pipes, and fittings; fire-extinguishing systems (unless specified herein); and other materials required to complete food service equipment installation.
 - 3. Division 26 Sections "Electrical" for connections to fire alarm systems, wiring, disconnects, and other electrical materials required to complete food service equipment installation.
- C. Alternates: Furnish food service equipment as specified in Division 01 2300 Section "Alternates."
- D. Work by Others:
 - 1. Final utilities connections and interconnections by Mechanical Technical Division #15 and Electrical Technical Division #16 Contractors.
 - 2. Furnishing and installation of disconnect switches, stop clocks, traps, strainers or other fittings, and accessories required to permit removal of equipment for adjustment or repairs, unless specifically called for otherwise. The Contractor shall, however, provide any required information and direct on-site supervision to allow proper completion by other trades.
 - 3. Installation of sleeves in floors and walls.
 - 4. Masonry bases, fireproof hearths, flues, and vents unless specifically called for otherwise.
 - 5. Flushing out of lines before making final connections. It is the responsibility of this Contractor to verify, however, that lines are properly flushed before final connection.
 - 6. Temporary electric power during installation for power tools, lighting, and so on or for testing prior to commissioning of permanent service.
 - 7. Handling, improvement, or modification to existing equipment not included in this specification.
 - 8. Demolition.
 - 9. Other trades must review complete project specifications for definition of their total responsibilities.

1.3 DEFINITIONS

-
- A. Terminology Standard: Refer to NSF 2, "Food Equipment" or other applicable NSF standards for definitions of food service equipment and installation terms not otherwise defined in this Section or in other referenced standards.
 - B. General: The following define the intent and context as it applies to this section of the specifications, and does not supersede or in any way replace definitions found in other sections.
 - 1. Furnish: The term "furnish" is used to mean "supply and deliver to the project site, ready for unloading, unpacking, assembly, installation, and similar operations".
 - 2. Install: The term "install" is used to describe operations at the project site including the actual "unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations".
 - 3. Provide: The term "provide" means "to furnish and install, complete and ready for intended use".

1.4 SUBMITTALS

A. Floor Plans and Rough-ins

- 1. The Contractor shall submit copies of the following drawings to the Owner or his designated representative for review:
 - a. A floor plan of all food service areas showing all items of equipment and sufficient dimensions to indicate placement of equipment from walls, other items, etc. This sheet shall include an equipment schedule indicating item number, quantity, and description.

This sheet shall also include an equipment schedule, and the appropriate item number shall accompany each utility description on the body of the sheet. It is expected that the Contractor will refer to the data prepared by the Architect and Consultant to complete this requirement; however, it is the Contractor's responsibility to verify information shown thereon, and the Contractor's submittal will warrant that he is fully satisfied that the information shown on the submittal is totally correct, complete, and ready for use in the field by other trades. On a new project, rough-in dimensions shall be calculated from column centerlines or other established datum points. On a project in an existing space, calculations shall be from finished walls. Indicate all interconnections by other trades.
 - b. A completely and clearly dimensioned electrical rough-in plan indicating exact locations, heights, and services required for each item of food service equipment, as well as any incidental services (for example, convenience receptacles) shown on the Consultant's spot connection plan.
 - c. A plumbing rough-in plan conforming to the requirements noted in (b) above.
 - d. A ventilation rough-in plan conforming to the requirements noted in (b) above.
 - e. A building conditions plan conforming to the requirements noted in (b) above, and including all pertinent information regarding masonry bases, curbs, recesses, critical dimensions of walls and openings, wall anchorages and overhead supports, and any other special information required to insure a properly completed installation.
 - f. Electronic copies of the Consultant's work, which is copyrighted, shall not be authorized for use by the Contractor. The Consultant assumes no responsibility for any use, whether

authorized or not, or whether electronically editable or not, for the use of his documentation by the Contractor.

2. The scale of these drawings shall be 1/4" = 1'-0", and it shall be the responsibility of the Contractor to insure that his drawings are properly coordinated and that there are no conflicts between sheets. The Contractor may, at his option, combine [(b) and (c)] and [(d) and (e)], providing that the scale of all drawings is increased to 1/2" = 1'-0".
3. The review of these drawings by the Owner or his designated representative is for design purposes only, and that review and/or the reviewer's election to review drawings submitted not in accordance with the above directions will not relieve the Contractor from responsibility for the consequences of not having prepared the drawings as above described.

B. Manufacturer's Drawings

1. It is the responsibility of the Contractor to insure that drawings required from his vendors are received and submitted so as to allow review, correction, resubmittal, and production within the requirements of the project schedule.
2. The Contractor shall review, coordinate, and correct these drawings before submitting them for review.
3. The Contractor is responsible for verifying that notes and revisions on these drawings do not conflict with his rough-in drawings, and shall immediately notify the Owner or his representative of any such conflicts.

C. Shop Fabrication Drawings

1. The Contractor shall submit copies of drawings showing complete fabrication details of custom fabricated equipment.
2. The scale of these drawings shall be 3/4" = 1'-0", with sufficient cross sections to accurately describe construction. Sections shall be at a scale of 1-1/2" = 1'-0". Each drawing shall show name and address of fabricator.
3. These drawings shall indicate locations of utilities and interconnections in relation to the custom equipment. Junction boxes and breaker panels shall be presented in schedule form showing individual connections and total load. If requested by the Owner, provide complete wiring diagrams.

D. Manufacturers' Illustrations

1. Within 30 days from award of contract, the Contractor shall submit complete, bound brochures in a suitable binder with front and rear cover.
2. Provide a cover sheet for each item number, indicating item number, quantity, description, manufacturer, model number, utilities required, and accessories.

- E. The review of these items by the Owner or his representative is for the assistance of the Contractor, and does not relieve the Contractor of any responsibility for accuracy and completeness. When the Contractor is notified that further resubmittals will not be required, he shall provide to the Owner a reasonable number of copies of prints and brochures without charge.

1.5 QUALITY ASSURANCE

- A. Contractor Qualifications: It is the intent of these specifications that fabricated equipment be manufactured by a contractor who has the plant, personnel, and engineering facilities to properly detail and manufacture best quality kitchen equipment in accordance with the specifications. The manufacturer shall be subject to the approval of the Architect or Consultant.

1. All fabricated equipment must be fabricated by one contractor in his own plant and shall be of uniform quality, design, and finish. Millwork fabrication need not be provided by the sheet metal fabricator, however.
 2. The Contractor shall not sublet any portion of the fabricated equipment unless the names of the subcontractors have been submitted with the bid. The Contractor shall be fully responsible for the entire performance of his subcontractors.
 3. Upon demand, the bidder shall submit evidence of having successfully executed contracts of similar size and scope. He shall also be prepared to submit a financial statement giving evidence of his ability to properly execute this project.
 4. The Contractor shall be a recognized and qualified distributor of buy-out kitchen equipment.
- B. The Contractor shall be a recognized and qualified distributor of buy-out kitchen equipment.
- C. Manufacturer Qualifications: Engage a firm in continuous business at least ten (10) years, experienced in manufacturing food service equipment similar to that indicated for this Project and with a record of successful in-service performance.
- D. Source Limitations: Obtain each type of food service equipment through one source from a single manufacturer.
- E. Product Options: Various items are specified by brand, trade name, or name of manufacturer and model number. The base bid must include the price for the manufacturer and model number exactly as specified.
1. Specifications may include the suffix ***C004** as part of the model number or elsewhere in the individual item description. This identifies the specifying office of the Food Service Consultant to insure that equipment vendors receiving information from bidders can communicate questions, clarifications, and comments which will serve to help resolve any specification issues before bid award. **The bidder shall not remove this number from the specifications**, and it is to be included in all correspondence regarding the item.
 2. The Specification Identification System described above is administrated through the auspices of the North American Association of Foodservice Equipment Manufacturers (NAFEM). The use of the SIS code does not modify model numbers recognized by the National Sanitation Foundation (NSF) or other listing bodies. Additional information is available from NAFEM at 312-644-6610.
 3. The Contractor may propose equivalent equipment for substitution, supplying full data and illustration sheet for each item. Alternate prices on all substitute equipment shall be submitted on a SEPARATE SHEET attached to the base proposal and shall state the amount to be added to or deducted from the base bid, as well as any other benefits that may accrue to the owner (delivery, maintenance, warranty, utility savings, and so on) if the alternate item is accepted. Refer to the "Application for Substitution of Specified Food Service Equipment" in this specification.
 4. The Contract Documents are based on the named (or first-named, in the case of additional named alternates) manufacturer and model number in regard to size, utility requirements, interface with other equipment, and so on. Where the Contractor elects to employ approved products other than the named (or first-named), whether included in the specifications or approved during the submittal process, it is the Contractor's responsibility to verify any differences in requirements and so advise the Architect.
 5. The Contractor shall be responsible for any additional costs incurred by any parties as the result of using any manufacturer other than the named (or first-named).
 6. The Architect or the Consultant or their representatives shall be the sole judge of the quality and acceptability of the substitute offered.
 7. Alternates or substitutions shall be considered only at the time of bidding.
 8. Following is the Application for Substitution of Specified Food Service Equipment.

APPLICATION FOR SUBSTITUTION OF SPECIFIED FOOD SERVICE EQUIPMENT

This form is to be submitted in support of each suggestion or request to substitute a manufacturer and/or model number that is not included as the only-named, first-named, or additionally-named product in the Division 11400 (Food Service Equipment) specifications. Refer to Section 1.5.E in those specifications for additional information.

The decision to accept an unnamed alternate will be based exclusively on the information provided hereon and the Owner's or his designee's research and verifications of the claims, which may include sharing the information with the manufacturer(s) of the originally specified equipment. Accordingly, any proprietary information regarding the proposed substitution should be so identified and submitted as an addendum to this form.

By submitting this application the Contractor guarantees that the information is correct and accepts total responsibility for any and all additional costs that may directly or indirectly result from acceptance of the proposed substitution. It is in the interest of the Contractor to declare on this form ALL benefits that will accrue to the Owner, as additional information provided after this form is submitted will not be considered. Include the proposed manufacturer's catalog information.

The original specifications describe the minimum standards of the equipment – proposed substitutions that do not exceed this minimum standard or otherwise benefit the Owner will not be considered except in the case of an originally specified item that is no longer available. The Owner or his designee is the sole authority in regard to identifying specific features, capacities, and so on that are operationally critical (for instance, pan capacity). Acceptance of a proposed substitution does not in any way relieve the Contractor of responsibility for any and all direct or indirect costs associated with the substitution.

1. Date submitted _____
2. Item Number _____ Description _____ Quantity _____
3. Specified Manufacturer _____ Specified Model Number _____
4. Proposed Manufacturer _____ Proposed Model Number _____
5. Does the proposed equipment incorporate all features and options expressed or implied by the specifications, including features and options that are provided as standard by the specified item number?
 Yes No (describe – attach additional sheets if necessary) _____

6. Compare the utilities of the specified equipment with the proposed equipment:

Specified: Hot water _____ Cold water _____ Electrical (w/ amps) _____
Gas (w/ BTUH) _____ Exhaust/supply volume w/ duct connections _____

Proposed: Hot water _____ Cold water _____ Electrical (w/ amps) _____
Gas (w/ BTUH) _____ Exhaust/supply volume w/ duct connections _____

7. Compare the dimensions of the specified equipment with the proposed equipment:

Specified: Left to right _____ Front to rear _____ Height _____

Proposed: Left to right _____ Front to rear _____ Height _____

8. Does the proposed equipment require any changes to the work to be provided by other trades?

No Yes (describe – attach additional sheets if necessary) _____

9. Does the proposed equipment require any changes or create any issues in regard to adjacent or associated equipment (for instance: door swing interference; stretch/shrink of established dimensions; service access clearances; air circulation space)?

No Yes (describe – attach additional sheets if necessary) _____

10. What benefits will the owner realize as a result of this substitution being approved (for instance: capital expense; energy savings; future flexibility; warranty terms; shipping time)? Provide specific information (how much less energy will be necessary? How much capital expense will be saved? How much longer is the warranty?).

There are no benefits to the Owner

The following will benefit the Owner (attach additional sheets if necessary): _____

11. What are the actual or potential disadvantages to the substitution being approved?

There are no actual or potential disadvantages

The following are actual or potential disadvantages (attach additional sheets if necessary): _____

12. Are there any other considerations that should be evaluated? _____

13. Signature of Contractor's representative _____

-
- F. Regulatory Requirements: Comply with the following National Fire Protection Association (NFPA) codes:
1. NFPA 70, "National Electrical Code."
 2. NFPA 17: Standard for Dry Chemical Extinguishing Systems
 3. NFPA 17A: Standard for Wet Chemical Extinguishing Systems
 4. NFPA 96: Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations
- G. Listing and Labeling: Provide electrically operated equipment or components specified in this Section that are listed and labeled.
1. The Terms "Listed" and "Labeled": As defined in the National Electrical Code, Article 100.
 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" (NRTL) as defined in OSHA Regulation 1910.7.
- H. NSF Standards: Comply with applicable NSF International (NSF) standards and criteria and provide NSF Certification Mark on each equipment item, unless otherwise indicated.
- I. ANSI Standards: Comply with applicable ANSI standards for electric-powered and gas-burning appliances; for piping to compressed-gas cylinders; and for plumbing fittings, including vacuum breakers and air gaps, to prevent siphonage in water piping.
- J. SMACNA Standard: Where applicable, fabricate food service equipment to comply with the Sheet Metal and Air Conditioning Contractors National Association's (SMACNA) "Kitchen Equipment Fabrication Guidelines," unless otherwise indicated.
- K. Preinstallation Conference: Conduct conference at Project site to comply with requirements of Division 01 3100 Section "Project Management and Coordination."
- L. Warranty: All equipment shall be warranted in writing from the date of final acceptance for a minimum period of one (1) year (regardless of the duration of the manufacturer's warranty) from defective parts, material, design, and workmanship, whether furnished by the Contractor or any of his subcontractors. The Contractor will be responsible for the cost of the affected equipment and/or its parts as well as any related costs of affected structural, electrical, mechanical, or other work requiring removal or replacement as a direct or indirect result of the failure of the equipment.
1. The warranty shall also include start-up and one (1) years' service for all refrigeration equipment, with an additional four (4) year warranty on compressors.
 2. Neither the final certificate nor payment will relieve the Contractor of responsibility for honoring the warranty.
 3. The Contractor shall forward all manufacturers' warranty information to the Owner.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. The Contractor shall furnish all labor, materials, equipment, and services necessary for all items specified. These shall be delivered prepaid; uncrated; assembled with all components within the equipment proper completely connected; set in place; leveled; fastened to the walls, floor, and ceiling if required; and left ready for final connections by other trades, which shall extend utility lines from rough-in locations to the final connection points on the equipment.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify dimensions of food service equipment installation areas by field measurements before equipment fabrication and indicate measurements on Shop Drawings and Coordination Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish required dimensions and proceed with fabricating equipment without field measurements. Other trades are responsible for coordinating construction to ensure actual dimensions correspond to established dimensions.
- B. Should it become necessary to schedule construction so that partitions and other structural features are erected prior to the delivery of equipment, equipment shall be fabricated so that it can be handled through available openings. The Contractor will be responsible for checking delivery access into the building and arranging delivery details as required.

1.8 COORDINATION

- A. Coordinate equipment layout and installation with other work, including light fixtures, HVAC equipment, and fire-suppression system components.
- B. Coordinate location and requirements of service-utility connections.
- C. Where interfacing with food service equipment, coordinate size, location, and requirements of concrete bases, floor depressions, and insulated floors. Concrete, reinforcement, and formwork requirements are specified in Division 03 Section "Cast-in-Place Concrete."
- D. All work is to be performed by the proper trades using skilled labor. All work shall be performed at hours required to maintain consistent work schedules with all other trades without additional cost to the Architect, Consultant, or Owner.
- E. If any work specified under this Contract must be done by others as a result of jurisdictional trade agreements or other restrictions, this Contractor shall sublet such work as necessary or make other satisfactory arrangements at his own expense and with the understanding that such work shall be done in accordance with the specifications and work schedule.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Stainless-Steel Sheet, Strip, Plate, and Flat Bar: ASTM A 666, Type 304, stretcher leveled, and in finish specified in "Stainless-Steel Finishes" Article.
- B. Stainless-Steel Tube: ASTM A 554, Grade MT-304, and in finish specified in "Stainless-Steel Finishes" Article.
- C. Sealant: ASTM C 920; Type S, Grade NS, Class 25, Use NT. Provide elastomeric sealant NSF certified for end-use application indicated. Provide sealant that, when cured and washed, meets requirements of Food and Drug Administration's 21 CFR, Section 177.2600 for use in areas that come in contact with food.

1. Color: As selected by Architect from manufacturer's full range of colors.
2. Backer Rod: Closed-cell polyethylene, in diameter larger than joint width.

2.2 ACCESSORIES

- A. The Contractor is responsible for providing the following accessories for all equipment, either mounted on the equipment or clearly identified if the accessory is to be mounted by others:
 1. Plumbing Accessories- crumb cup strainer waste outlets, lever handle wastes with strainers, tailpieces, faucets, standing or connected overflows, vacuum breakers, and other specialty fittings standard or necessary for the item specified. Where such accessories are mounted by the Contractor, this shall be done in the Contractor's shop whenever possible.
 2. Steam Fitting Accessories- steam supply valves with composition handles which shall remain reasonably cool to the touch in service, gauges, thermostats, pressure reducing valves, tinned copper coils, and injectors, as specified.
 3. Electrical Accessories- terminal blocks, conduit, wiring, signal lamps, on-off switches, control panels, heating elements, junction boxes, cords and plugs as required, and control switches.
 4. Refrigeration Accessories- refrigerant tubing, valves, fittings, hangers, pipe covering, thermometers, combined high and low pressure control switches, solenoid valves, thermostats, condensate evaporators, insulation, heaters, and condensate heater wires.
- B. Install an appropriately sized Superior, Everpure, or equal water conditioner/filter for all ice makers, coffee makers, water coolers, compartment steamers, and drink dispensers specified herein. These shall be concealed and accessible. Where possible, install a single such unit in the line prior to branching to individual items.
- C. The Contractor shall provide neoprene cords and plugs for all items requiring same, and shall coordinate his work with the electrical contractor to insure proper receptacle match. Shorten all cords to an appropriate length.
- D. The Contractor shall install fluorescent light fixtures, lamps, ballasts, and protective non-breakable sleeves for all equipment requiring fluorescent lighting.
- E. The Contractor shall provide refrigeration systems included in the specifications, self-contained and remote, completely installed, charged, tested, and operating properly. The scope of this requirement includes all compressors, racks, coils, vibration eliminators, moisture-indicating sight glasses, expansion valves, filters, separators, thermostats, controls, control wiring between compressor and coil (self-contained only; remote by electrical contractor), liquid line dryers, refrigeration grade copper tubing with all sweat joints, and 1/2" or equal Armaflex or equal insulation.

2.3 FABRICATION, GENERAL

- A. Fabricate food service equipment according to NSF 2 requirements. Factory assemble equipment to greatest extent possible.
- B. Welding: Use welding rod of same composition as metal being welded. Use methods that minimize distortion and develop strength and corrosion resistance of base metal. Provide ductile welds free of mechanical imperfections such as gas holes, pits, or cracks.

1. Welded Butt Joints: Provide full-penetration welds for full-joint length. Make joints flat, continuous, and homogenous with sheet metal without relying on straps under seams, filling in with solder, or spot welding.
 2. Grind exposed welded joints flush with adjoining material and polish to match adjoining surfaces.
 3. Where fasteners are welded to underside of equipment, finish reverse side of weld smooth and undepressed.
 4. Coat unexposed stainless-steel welded joints with suitable metallic-based paint to prevent corrosion.
 5. Tack welds shall have at least 1/2" of welding material at a maximum spacing of 4" with the exception of channel ends where a minimum of two welds will be required regardless of spacing.
 6. Field joints will be performed only when accessibility or transportation considerations prohibit a single unit. Such joints will be welded whenever a welded joint would otherwise be required, and shall be equal in quality to welds performed in the shop.
 7. Any welding of galvanized metal shall be followed by treating to prevent rusting or corrosion at the weld.
- C. Fabricate field-assembled equipment prepared for field-joining methods indicated. For metal butt joints, comply with referenced SMACNA standard, unless otherwise indicated.
- D. Where stainless steel is joined to a dissimilar metal, use stainless steel welding material or fastening devices.
- E. Form metal with break bends that are not flaky, scaly, or cracked in appearance; where breaks mar uniform surface appearance of material, remove marks by grinding, polishing, and finishing.
- F. Sheared edges shall be ground and polished to eliminate the possibility of injury or damage to personnel or equipment. Raw corners shall be ground to a minimum 1/4" radius. Overlapping materials will not be acceptable.
- G. Provide surfaces in food zone, as defined in NSF 2, free from exposed fasteners.
- H. Cap exposed fastener threads, including those inside cabinets, with stainless-steel lock washers and stainless-steel cap (acorn) nuts.
- I. The Contractor shall provide suitable pipe chases and pockets and/or perform all necessary drilling, punching, and cutting of his equipment for work or connections performed by other trades. This includes grinding to eliminate any possibility of injury to damage or equipment. Such work shall be performed in the Contractor's shop whenever possible, and if done in the field shall be of the same quality as if shop performed.
- J. Provide enclosures, including panels, housings, and skirts, to conceal service lines, operating components, and mechanical and electrical devices including those inside cabinets, unless otherwise indicated.
- K. Rivets are not acceptable under any circumstances, nor are manufacturers' name plates except in the case of catalog equipment, where a name plate must appear bearing the model number of the equipment along with all pertinent mechanical and electrical data.

2.4 STAINLESS-STEEL EQUIPMENT

- A. Edges and Backsplashes: Provide equipment edges and backsplashes indicated complying with referenced SMACNA standard, unless otherwise indicated.
- B. Tables: Fabricate with reinforced tops, legs, and reinforced under-shelves or cross bracing to comply with referenced SMACNA standard, unless otherwise indicated, and as follows:
 - 1. Tops: Minimum #14 gauge 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.
 - 2. Legs: 1-5/8 inch (41.3 mm) OD, minimum #16 gauge 0.0625-inch- (1.588-mm-) thick stainless steel with stainless-steel gusset and adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.
 - 3. Undershelves: Minimum #16 gauge 0.0625 (1.588-mm-) thick stainless steel, unless otherwise indicated.
 - 4. Top and Undershelf Reinforcement: Provide minimum #12 gauge 0.1094 inch thick, stainless-steel reinforcing, unless otherwise indicated.
 - 5. Cross Bracing: 1-1/4 inch (31.75 mm) OD, minimum #16 gauge 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
- C. Sinks: Fabricate of minimum #14 gauge 0.0781-inch- (1.984-mm-) thick stainless steel with fully welded, 1-piece construction. Construct 2 sides and bottom of sink compartment from 1 stainless-steel sheet with ends welded integral and without overlapping joints or open spaces between compartments. Provide double-wall partitions between compartments with 1/2-inch- (13-mm-) radius rounded tops that are welded integral with sink body. Cove horizontal, vertical, and interior corners with 3/4-inch (19-mm) radius. Pitch and crease sinks to waste for drainage without pooling. Seat wastes in die-stamped depressions without solder, rivets, or welding.
 - 1. Wastes: 2-inch (50-mm) nickel-plated bronze, rotary-handle waste assembly with stainless-steel strainer plate and nickel-plated brass, connected overflow.
 - 2. Drainboards: Minimum #14 gauge 0.0781-inch- (1.984-mm-) thick stainless steel, pitched to sink at 1/8 inch/12 inches (3 mm/300 mm) of length. Reinforce drainboards with minimum #14 gauge 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.
 - 3. Legs: 1-5/8 inch (41.3 mm) OD, minimum #14 gauge 0.0625-inch- (1.588-mm-) thick stainless steel with stainless steel gusset welded to #12 gauge 0.1094-inch- (2.779-mm-) thick, stainless steel support plate. Provide adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.
 - 4. Drainboard Braces: 1 inch (25 mm) OD, minimum #16 gauge 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
 - 5. Cross Bracing: 1-1/4 inch (31.75 mm) OD, minimum #16 gauge 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
- D. Wall Shelves and Overshelves: Fabricate to comply with referenced SMACNA standard, unless otherwise indicated, and with minimum #16 gauge 0.0625-inch- (1.588-mm-) thick, stainless steel shelf tops.
- E. Refer to the sheets in the drawing set which describe specific fabrication details to be used in the course of construction.

2.5 STAINLESS-STEEL FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.
 - 1. Remove or blend tool and die marks and stretch lines into finish.
 - 2. Grind and polish surfaces to produce uniform, directional textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.
- B. Concealed Surfaces: No. 2B finish (bright, cold-rolled, unpolished finish).
- C. Exposed Surfaces: No. 4 finish (bright, directional polish).
- D. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
- E. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipment.

2.6 MILLWORK

- A. Core materials shall be 3/4" exterior or marine grade plywood unless otherwise specified.
- B. Particle board or other pressed wood products are not acceptable.
- C. Plastic laminate shall be by Formica, Wilson Art, or approved equal, applied according to manufacturer's recommendations with a urea-based adhesive. Rubber based adhesives are not acceptable. Plastic laminate shall be NSF listed.

2.7 PRESENTATION OF BIDS

- A. It is intended that the contract be awarded as a whole to the successful bidder. An itemized breakdown is required so that the Owner may, at his option, delete the item in its entirety, supply any part or portion thereof, or increase the quantity, making a suitable adjustment in the contract price based on the breakdown. Each individual price shall include the material cost plus the labor cost associated with that item.
- B. Fill out the following Itemized Price List.

Item	Qty.	Description	Price
1	1	Serving Counter "A"	.....
2	4	Undercounter Mobile Heated Drawers	.....
3	Lot	Wall Shelves "A"	.....
4	1	Microwave Oven (Existing)	xxxxxxxxxxxxxxxxxxxxxx
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	XXXXXXXXXXXXXXXXXXXX
12	-	Unassigned Number	XXXXXXXXXXXXXXXXXXXX
13	1	Speed Oven (Future)	XXXXXXXXXXXXXXXXXXXX
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)	XXXXXXXXXXXXXXXXXXXX
20	-	Unassigned Number	XXXXXXXXXXXXXXXXXXXX
21	-	Unassigned Number	XXXXXXXXXXXXXXXXXXXX
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)	XXXXXXXXXXXXXXXXXXXX
29	1	Popcorn Machine (Existing)	XXXXXXXXXXXXXXXXXXXX
30	2	Secure Shelving Unit	.....

Subtotal _____

Any extra charges (describe)

TOTAL COST (excluding taxes) _____

Taxable amount

2.8 EXISTING EQUIPMENT

- A. The term "existing equipment" as used in this specification shall mean food service equipment now in storage or active use by the Owner. Equipment identified as "existing" that is not being relocated may or may not need to be removed to accommodate construction in the area.
- B. Where the documents indicate that an item is to be installed by the Contractor, it is the Contractor's responsibility to carefully examine the item in place to ascertain that it operates properly and will properly fit in its new location.
- C. The Contractor shall also: disassemble (if required) the items; remove and store in a properly bonded and protected storage facility; deliver, reassemble (if required) and install in its new location where indicated on the drawings; and verify that the equipment operates properly. The Contractor is responsible for scheduling of delivery and installation of all existing items, whether delivered by the Contractor or the Owner.
- D. Where the documents indicate that an item is to be installed by the Owner, the Owner shall be responsible for removal, storage, and delivery to the installation area. Final installation and coordination between items shall be by the Contractor. The Contractor shall notify the Owner of the necessary delivery dates no less than 14 days prior to the delivery date.
- E. If the documents do not indicate if an existing item is to be installed by the Contractor or Owner, it shall be assumed that the Contractor shall install it.
- F. The Contractor shall verify and indicate on his rough-in plan all utility connections required for the proper installation of all existing equipment to be reused.
- G. If any items are indicated to require reconditioning, the Contractor shall submit a time and materials proposal for any reconditioning, which shall be in addition to the base bid.
- H. Reconditioning (where specifically called for) shall be interpreted to mean:
 - 1. A thorough scraping and steam cleaning to remove scale and all foreign material;
 - 2. Repainting of all items having exposed, worn, or scarred surfaces, which are not of rustproof materials;
 - 3. Furnishing any required filler pieces, braces, hardware, and so on necessary to complete the installation in a workmanlike manner.
 - 4. Repainting of the understructure (legs, shelves, drawers, etc.) when required shall be aluminum lacquer or other chip resistant finish. Other items shall be completely repainted or touched up, as required by their condition, in their original color.
 - 5. Refrigeration equipment shall have all components checked for efficient operation, and all worn or malfunctioning items shall be replaced.
 - 6. Items containing heating elements shall be checked and any electrical components not functioning properly shall be replaced.
- I. Disposition of existing equipment:
 - 1. Equipment to be reused by the Owner at other locations: the Contractor shall disassemble if necessary and relocate from the existing location to an area adjacent to or nearby in the facility as identified by the Owner. Further services may be performed through a separate arrangement between the Contractor and Owner.
 - 2. Equipment identified for re-use at the current location: the Contractor shall disassemble if necessary and relocate from the existing location to an area adjacent to or nearby in the facility

as identified by the Owner. The Contractor is responsible for ensuring adequate isolation and protection during construction and post-installation until accepted by the Owner. Alternatively, the Contractor may store this equipment off-site at their expense.

3. Equipment not identified for further use: the Contractor shall solicit the Owner to identify any equipment (not already identified per paragraphs 1 and 2 above) that the Owner wishes to retain, and for those items follow the procedure described in paragraph 1. Otherwise, the Contractor shall remove and dispose of this equipment as they choose.

2.9 ITEM SPECIFICATIONS

2.9.01 ITEM #1 SERVING COUNTER "A" (1) REQUIRED

- A. Provide the unit constructed to the standards of the ADVANCE-TABCO #FSS-W-30x*C004 (refer to Section 1.5.E in regard to the "*C004" suffix) equipment. The Food Service Equipment Contractor is responsible for verifying that the space available in the field will accommodate the unit.
- B. The unit shall be in an "L" shape. The left leg shall measure approximately 17'-6" left to right and the right leg approximately 8'-0" left to right. The front to rear dimension at the server positions on the left leg shall be 1'-4" at the service windows, measuring 2'-9" centered at the movable portion of the window. The front to rear dimension shall be 2'-6" front to rear at all other locations. Provide a 30° transition from the server positions to the full-depth portions of the counter. The height of the counter shall be approximately 2'-10" – verify the height of the pass windows and construct to match.
- C. The rear shall be provided with a 1" single-thickness turn-up except at the pass window locations, where they shall be turned down and butted up against the building wall. The front and both sides shall be turned down.
- D. Verify that the height is sufficient, and the table supports located as required, to accommodate Item #2, Undercounter Mobile Heated Drawers.

2.9.02 ITEM #2 UNDERCOUNTER MOBILE HEATED DRAWERS (4) REQUIRED

- A. Provide the ALTO-SHAAM #500-3D*C004 complete with 3" casters and caster stand assembly.

2.9.03 ITEM #3 WALL SHELVES "A" LOT REQUIRED

- A. Provide (2) ADVANCE-TABCO #WS-12-36*C004 and (2) #WS-12-60*C004, in a double-deck "L" shape. The Food Service Equipment Contractor is responsible for verifying that the space available in the field will accommodate the unit.

2.9.04 ITEM #4 MICROWAVE OVEN (1) REQUIRED

- A. This item is not included in the Food Service Equipment Contract and is provided with an item number for reference only.

2.9.05 ITEM #5 HOT BEVERAGE POWDER MIX DISPENSER (1) REQUIRED

- A. Install the BUNN #37000.000*C004 complete with hot water button and manufacturer's recommended water treatment option.

2.9.06 ITEM #6 THREE COMPARTMENT SINK (1) REQUIRED

- A. Install the ADVANCE-TABCO #K7-CS-32*C004, complete with faucet hardware and rear and left side splashes, closed where exposed. The Food Service Equipment Contractor is responsible for verifying that the space available in the field will accommodate the unit.
- B. The process flow shall be from right to left. The sink bowls shall each be provided with the #K-16*C004 twist handle drain with overflow. As part of this item provide stainless steel wall protection from the top of the backsplash to a point 5'-0" a.f.f. (or as high as practical), starting 6" to the left of the left-hand sink and extending 6" to the right of the right hand sink. Provide backsplashes at the rear and both sides, closed at the sides.

2.9.07 ITEM #7 WALL SHELVES "B" LOT REQUIRED

- A. Provide (2) ADVANCE-TABCO #WS-12-60*C004, in a double-deck configuration. The Food Service Equipment Contractor is responsible for verifying that the space available in the field will accommodate the unit.

2.9.08 ITEM #8 HAND SINK (1) REQUIRED

- A. Install the ADVANCE-TABCO #7-PS-51*C004 complete with all standard accessories including lever drain with overflow and P-trap, and with #7-PS-36*C004 wall support brackets.
- B. In lieu of the standard unit furnish the T&S BRASS #EC-3101*C004 hands-free electronic splash-mounted gooseneck faucet system with adjustable shut-off timer.

2.9.09 ITEM #9 SERVING COUNTER "B" (1) REQUIRED

- A. Install the unit constructed to the standards of the ADVANCE-TABCO #FSS-W-30x*C004 equipment. The Food Service Equipment Contractor is responsible for verifying that the space available in the field will accommodate the unit.
- B. The unit shall be in a "U" shape. The left leg shall measure approximately 8'-0" left to right, the base leg approximately 30'-0" left to right (including the offset section) and the right leg approximately 5'-6" left to right. The front to rear dimension at the server positions on the base leg shall be 1'-4" at the service windows, measuring 2'-9" centered at the movable portion of the window. The front to rear dimension shall be 2'-6" front to rear at all other locations – note the offset configuration at the interface of the base and right legs. Provide a 30° transition from the server positions to the full-depth portions of the counter. The height of the counter shall be approximately 2'-10" – verify the height of the pass windows and construct to match.
- C. The rear shall be provided with a 1" single-thickness turn-up except at the pass window locations, where they shall extend through the wall 2" beyond the outside wall surface, turn down 2" with a 1/2" return at the bottom, and closed at the bottom to exclude vermin. The front and both sides shall be turned down.

- D. Provide the #TA-11B*C004 sink at the left side, complete with recessed shoulder and #K2C*C004 flush-fitting Poly-Vance cutting board. Provide the #K-16*C004 twist handle drain with overflow and #K-50*C004 deck-mounted faucet.
- E. Verify that the height is sufficient, and the table supports located as required, to accommodate Item #2, Undercounter Mobile Heated Drawers.

2.9.10 ITEM #10 WALL SHELVES "C" LOT REQUIRED

- A. Provide (2) ADVANCE-TABCO #WS-12-36*C004 and (2) #WS-12-84*C004, in a double-deck "L" shape. The Food Service Equipment Contractor is responsible for verifying that the space available in the field will accommodate the unit.

2.9.11 ITEM #11 UNASSIGNED

2.9.12 ITEM #12 UNASSIGNED

2.9.13 ITEM #13 SPEED OVEN (1) REQUIRED

- A. This item is not included in the Food Service Equipment Contract and is provided with an item number for reference only.

2.9.14 ITEM #14 OPEN SHELVING (2) REQUIRED

- A. Provide the following METRO components in the sizes and configurations shown. The Food Service Equipment Contractor is responsible for verifying that the space available in the field will accommodate the units:
- B. (10) #1860NK3*C004 shelves;
(8) #74PK3*C004 posts.

2.9.15 ITEM #15 MOBILE WORK TABLE "A" (1) REQUIRED

- A. Provide the ADVANCE-TABCO #MS-367*C004 measuring 7'-0" left to right by 3'-0" front to rear by 3'-0" to the working surface. Provide with 5" heavy duty polyurethane casters (those at the front provided with brakes). The Food Service Equipment Contractor is responsible for verifying that the space available in the field will accommodate the unit.

2.9.16 ITEM #16 MOBILE WORK TABLE "B" (2) REQUIRED

- A. Provide the ADVANCE-TABCO #MS-305*C004 measuring 5'-0" left to right by 2'-6" front to rear by 3'-0" to the working surface. Provide with #PT-12R-60*C004 rear-mounted overshef turned down on all sides. Also provide the #ADT-3-2020*C004 drawers complete with side panels, and 5" heavy duty polyurethane casters (those at the front provided with brakes).

2.9.17 ITEM #17 MOBILE WORK TABLE "C" (4) REQUIRED

- A. Provide the ADVANCE-TABCO #MS-244*C004 measuring 4'-0" left to right by 2'-0" front to rear by 3'-0" to the working surface. Provide with 5" heavy duty polyurethane casters (those at the front provided with brakes). The Food Service Equipment Contractor is responsible for verifying that the space available in the field will accommodate the unit.

2.9.18 ITEM #18 COLD BEVERAGE DISPLAY "A" (2) REQUIRED

- A. Provide the TRUE #GDM-33-HC-LD*C004 complete with barrel lock and 4" diameter casters.

2.9.19 ITEM #19 COLD BEVERAGE DISPLAY "B" (2) REQUIRED

- A. This item is not included in the Food Service Equipment Contract and is provided with an item number for reference only.

2.9.20 ITEM #20 UNASSIGNED

2.9.21 ITEM #21 UNASSIGNED

2.9.22 ITEM #22 MOBILE HOT HOLDING CABINET (1) REQUIRED

- A. Provide the VULCAN #VBP15SL*C004 complete with full perimeter bumper and glass Dutch doors.

2.9.23 ITEM #23 SECURE REFRIGERATOR (2) REQUIRED

- A. Provide the TRUE #STG1R-2HG-HC*C004 complete with a field-reversible hinge and a total of (4) shelves. The two units shall be keyed differently.

2.9.24 ITEM #24 SECURE FREEZER (1) REQUIRED

- A. Provide the TRUE #STG1F-2HS*C004 complete with a field-reversible hinge and a total of (4) shelves. The upper and lower doors shall be keyed differently, corresponding to the separate keying provided for the two secure refrigerators.

2.9.25 ITEM #25 HOT DOG ROLLER GRILL (1) REQUIRED

- A. Provide the APW-WYOTT #HRS-50S*C004.

2.9.26 ITEM #26 NACHO BIN (1) REQUIRED

- A. Provide the HATCO #FDWD-1-MN*C004.

2.9.27 ITEM #27 NACHO CHEESE BIN (1) REQUIRED

- A. Provide the HATCO #CCW*C004.

2.9.28 ITEM #28 PRETZEL DISPLAY (1) REQUIRED

- A. This item is not included in the Food Service Equipment Contract and is provided with an item number for reference only.

2.9.29 ITEM #29 POPCORN MACHINE (1) REQUIRED

- A. This item is not included in the Food Service Equipment Contract and is provided with an item number for reference only.

2.9.30 ITEM #30 SECURE SHELVING UNIT (2) REQUIRED

- A. Provide the following METRO components in the sizes and configurations shown. The Food Service Equipment Contractor is responsible for verifying that the space available in the field will accommodate the units:

- B. (2) #SE55LCQ*C004 base assembly;
(4) #2448QBR*C004 intermediate shelves.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for installation tolerances, service-utility connections, and other conditions affecting installation and performance of food service equipment. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Examine roughing-in for piping, mechanical, and electrical systems to verify actual locations of connections before installation.

3.2 INSTALLATION, GENERAL

- A. A minimum of three (3) weeks before the job opening, the Contractor shall provide three (3) copies of original maintenance and repair manuals, giving operating and maintenance instructions, parts lists, and names and addresses of local service agencies and representatives for each piece of equipment having electrical and/or mechanical components. Provide wiring and connection diagrams where one or more items are interconnected.
- B. Indicate field joints and methods of connection on Drawings. Correlate with NSF 2 requirements.
- C. Complete equipment field assembly, where required, using methods indicated.
1. Provide closed butt and contact joints that do not require a filler.
 2. Grind field welds on stainless-steel equipment smooth, and polish to match adjacent finish. Comply with welding requirements in "Fabrication, General" Article.

- D. Any field cutting or welding shall comply with the provisions of the National Fire Protection Association's "National Fire Codes" or local requirement, whichever is more stringent, pertaining to such work, and the Contractor shall be responsible for any damage resulting from failure to comply.
- E. Verify equipment maintenance-clearance requirements of authorities having jurisdiction and of local sanitation and health codes. Reflect minimum clearances on Drawings and revise below to suit Project.
- F. Install equipment with access and maintenance clearances according to manufacturer's written instructions and requirements of authorities having jurisdiction.
- G. Except for mobile and adjustable-leg equipment, securely anchor and attach items and accessories to walls, floors, or bases with stainless-steel fasteners, unless otherwise indicated.
- H. Install cabinets and similar equipment on concrete or masonry bases in a bed of sealant.
- I. Install trim strips and similar items requiring fasteners in a bed of sealant. Fasten with stainless-steel fasteners at 48 inches (1200 mm) o.c. maximum.
- J. Install sealant in joints between equipment and abutting surfaces with continuous joint backing, unless otherwise indicated. Provide airtight, watertight, vermin-proof, sanitary joints.
- K. Prior to turning completed areas over to the Owner, the Contractor shall clean and polish all equipment herein specified and make it ready for use, including commissioning and demonstration to the Owner.

3.3 PROTECTION

- A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, that ensure food service equipment is without damage or deterioration at the time of Substantial Completion.
- B. Care shall be taken to prevent any damage whatsoever to the equipment, building, or previous work. Such damage will be repaired at the expense of the Contractor causing it.
- C. Tile, terrazzo, and finished floors and walls shall be protected by the Contractor with suitable planking or other material prior to movement or installation of equipment on it.

3.4 DEMONSTRATION AND TURNOVER

- A. The Contractor shall retain title and responsibility for all equipment until accepted by the Owner. Any items lost or damaged shall be immediately replaced or repaired to a new condition to the satisfaction of the Architect and/or Consultant.
- B. Prior to acceptance by Owner the Contractor shall commission and test all equipment in the presence of the Owner or his agent to his satisfaction that the equipment is operating properly.
- C. Prior to Owner's acceptance, the Contractor shall have a qualified representative on hand to instruct the Owner's employees in the proper operation and maintenance of the equipment.

END OF SECTION

**SECTION 32 3130
CHAINLINK FENCE – VINYL**

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Related Sections:
 - 1. Section 03 3000 Cast In Place Concrete

1.2 SCOPE

- A. The work under this section of the specifications shall consist of furnishing all labor, materials and equipment necessary for a new black vinyl chainlink fence system as indicated herein and on the Contract Documents. Work shall include but not limited to footings, posts, fabric, rails, gates and all related hardware.
- B. Furnishing and installation of black vinyl fencing in lieu of galvanized is an ALTERNATE as identified on the proposal forms.

1.3 QUALITY ASSURANCE AND WARRANTY GUARANTEE

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM A53 – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
 - 2. ASTM A90 – Standard Test Method for Weight (Mass) of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
 - 3. ASTM C94 – Standard Specification for Ready-Mixed Concrete
 - 4. ASTM A153 – Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
 - 5. ASTM F626 – Standard Specification for Fence Fittings
 - 6. ASTM F668 – Standard Specification for Polymer Coated Chainlink Fence Fabric
 - 7. ASTM F900 – Standard Specification for Industrial and Commercial Swing Gates
 - 8. ASTM F934 – Standard Practice for Standard Colors for Polymer Coated Chainlink
 - 9. ASTM F1043 – Standard Specification for Strength and Protective Coatings on Steel Industrial Chainlink Fence Framework
 - 10. ASTM F1083 – Standard Specification for Pipe, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures
- B. Weights and tolerances to conform to Federal Specification RR-F-191G dated January 25, 1974.
- C. The Contractor and any Sub-Contractor hereunder guarantee their respective work against defective materials or workmanship for a period of one (1) year from the date of filing Certificate of Substantial Completion and as accepted by the Owner.
- D. All material installed under this specification shall be subject to testing by the Owner. Any material so inspected and found to be not in strict conformance with this specification shall be promptly removed and replaced by the Contractor at his expense.

1.4 SUBMITTALS

- A. Shop drawings showing plan layout, spacing of components, post foundation dimensions, hardware, gates and schedule of components.
- B. Product Data: Submit product data on fabric pattern, posts, accessories, fittings and hardware.
- C. Samples: Color selection for vinyl finishes. If requested, samples of materials (e.g., fabric, wires, and accessories).
- D. Mill Certificates conforming to ASTM F1043 (06), Part 8.1.4 – Adhesion Testing
 - 1. Test Results shall be provided before material is shipped to site.
 - 2. Minimum (3) random tests for each post size specified.
- E. At the request of the Architect, provide Material Certificates confirming product provided is Domestic pipe.

1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in the manufacturing of products specified in this section with a minimum of ten (10) years experience
- B. Installer: Company specializing in performing work of this section with a minimum of five (5) years experienced. Must have a minimum of two in-house fence installation crews.

1.6 PROJECT CONDITIONS

- A. Field Measurements: Verify layout information for chainlink fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Deliver fence fabric and accessories in packed cartons or firmly tied rolls.
- B. Identify each package with manufacturer's name.
- C. Store fence fabric and accessories in a secure and dry place.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which Installer agrees to repair or replace components of chainlink fences and gates that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 2. Warranty Period: 15 years from date of Substantial Completion

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Framework, posts, rails, fabric and fittings for chainlink fence system shall be domestic pipe manufactured and supplied by:
1. Merchants Metals – Color Bond Product:
Phone: (888) 260-1600
 2. Master Halco – Permafused Product
Phone: (888) 643-3623
 3. Stevens Pipe & Steel
Phone: (800) 850-3433

2.2 VINYL CLAD CHAINLINK FENCE

- A. This specification covers chain link fabric made from galvanized steel wire which has been coated with polyvinyl chloride compound hereinafter designated as "vinyl." The base metal shall be steel of such quality and purity that, when drawn to the size of wire specified and coated with vinyl, the finished fencing shall be of uniform quality and have the properties and characteristics as prescribed in the specification. Wire used for the manufacture of this fabric shall be capable of being woven into fabric without the vinyl coating voiding, cracking or peeling. Vinyl shall be plasticized and thoroughly compounded.
- B. Thermal Fused Vinyl: The thermally fused vinyl coated wire shall consist of vinyl thermally fused to primed zinc coated wire. The zinc coating shall be in accordance with ASTM A641, .30 oz. per square foot. The vinyl adhesion shall be greater than the cohesive strength of the vinyl material itself.
- C. Physical Properties of Coating
1. Accelerated Aging: PVC coated wire from which the fabric is woven shall withstand exposure for 1000 hours without failure at a black panel temperature of 145°F, Type BH apparatus described in ASTM G155 shall be used for the test. The product shall be construed to have failed the test if:
 - a. The wire fails to withstand the Mandrel Bend Test described below.
 - b. Shrinkage of the PVC coating is greater than 1/16" per foot of wire.
 - c. There is a significant change in color or gloss of the PVC surface as determined by visual inspection.
 2. Mandrel Bend Test: PVC coated wire when subjected to a single bend at -20°F around a mandrel no larger than ten times the diameter of the wire shall not exhibit breaks or cracks in the PVC coating. The Mandrel Bend Test shall be performed on an individual piece of wire removed from the fabric. This specimen may be any length of wire over 12" and shall include both bends and straight sections, but shall not include either twists or knuckles.
 3. Color of Coatings:

<u>Hue</u>	Black
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<u>Tolerance</u>	2.0 G
<u>Value</u>	3.02
<u>Chroma</u>	2.35

- D. **Workmanship:** Vinyl coated chain link fabric shall be produced by methods recognized as good commercial practices. Careful inspection shall be made to determine the quality of vinyl coating. Coatings not free from pinholes, bubbles or voids, rough or blistered surfaces shall provide a basis for rejection. An apparent mismatch of color readily discernible by visual inspection shall be cause for rejection.
- E. **Weight of Zinc Coating:** The weight of coating shall be determined on individual pieces of wire removed from the fabric. The specimens may be of any continuous length of 12 inches, but preferably about 24 inches long. The weight of coating shall be determined in accordance with tests for weight of coating described in ASTM A90. The weight of zinc coating shall be determined after removing the vinyl coating from the fabric.

2.3 VINYL CLAD FRAMEWORK

- A. **General:** The framework consists of all line, corner, terminal posts, horizontal rails and gate frame materials which shall be coated with a polyvinyl chloride coating 10 to 12 mils in thickness over galvanized steel or aluminum. These surfaces shall be thermally fused to the metal surface with an appropriate sured primer. The PVC shall be plasticized and thoroughly compounded so that all pigments, stabilizers and other ingredients are fully dispersed.
- B. **Color of Framework:** The color of framework shall match the fabric.
- C. **Fabric:** The wire used in the vinyl coated fences shall possess a minimum breakload of 850 pounds. The coated size of the thermally fused vinyl fence wire shall be 9 gauge core, 8 gauge finish (Class 2B). Vinyl coated fabric shall be woven to form a 2" mesh. The size of mesh shall be determined by measuring the minimum clear distance between the wires forming the parallel sides of the mesh, measured in either direction. The tolerance in the size of mesh shall be +/- 1/8" inch. The thickness of the vinyl coating shall be 0.007".
- D. **Framework Materials:** Framework materials shall be, before coating with PVC, either Type I Schedule 40 pipe with 1.8 ounce per square foot zinc coating before resin coating, or Type II pipe manufactured from steel conforming to the Standard Specification for Black and Hot-Dipped Zinc Coated (Galvanized) Welded and Seamless Steel Pipe for Ordinary Uses, ASTM A53; or TYPE II pipe manufactured from steel conforming to ASTM A1011, Cold-Rolled, Electric welded and Triple Coated with 1.0 ounce, +/- 0.1 ounce zinc per square foot. The internal surface shall have corrosion protection by a zinc-rich based organic coating with 87% minimum zinc powder loading, with the capability of withstanding 350 hours when subjected to Salt Spray Test ASTM B117, with a 5% minimum Red Rust.
- E. **Line Posts:** Shall be one of the following vinyl coated materials: Type I, 2.375" O.D. round steel posts weighing 3.65 lbs. per lineal foot; or, alternately, Type II 2.375" O.D. round steel pipe weighing 2.78 lbs. per foot or roll-formed "c" section posts measuring 2.25 inches by 1.70" weighing 2.73 lb. per lineal foot. Posts shall not be splice welded in such a manner that the weld appears above the grade line. The chain link fabric shall be tied to the line posts with vinyl coated clips or tie wires with a minimum steel diameter of 0.132" and spaced on 15" maximum centers.

- F. Terminal and Gate Posts: Terminal and gate posts shall be one of the following vinyl coated materials: two and one-half inch (2 1/2") square tubing weighing 5.10 lbs per lineal foot, or alternately, Type I, 2.875" OD steel round posts weighing 3.66 lbs. per lineal foot, or Type II 2.875" OD steel round posts weighing 4.64 lbs per lineal foot. Posts shall not be splice welded in such a manner that the weld appears above the grade line.
- G. Terminal and Gate Post Fittings: Terminal and gate post fittings, including tension bands, brace connections and top rail connections, shall be 14 gauge, hot-dipped galvanized, cold-rolled, carbon steel. Top rail, brace and truss bands shall not be less than 3/4" wide, secured by 5/16" diameter carriage bolts. Tension bars shall not be less than 2" shorter than the nominal height of the fabric with which they are to be used. One tension bar shall be provided for each end and gate post, and two for each corner and pull post.
- H. All fixed component parts such as post tops, bands, connectors, and rail ends shall be vinyl coated on visible surfaces of a color to match the fabric and framework. Non-visible portions of parts may be uncoated in the case of aluminum components. Non-visible portions of steel or iron components not vinyl coated must be coated with zinc as per ASTM A153. All hardware shall come vinyl coated or shall be coated in the field with a vinyl base compound after installation. Aerosol spray paint to match the color of vinyl fencing will not be accepted.
- I. All hardware and caps shall be made in the USA.
- J. Top, Intermediate and Bottom Rail: Top, intermediate and bottom rails (where applicable) shall be vinyl coated Type I, 1.660" O.D. round steel pipe weighing 2.27 lbs. per lineal foot, or Type II, 1.660" O.D. round steel pipe weighing 1.59 lbs. per lineal foot. An outside sleeve type coupling measuring not less than 6" in length shall be provided at each interval of twenty-one feet. The chain link fabric shall be tied to the rails at intervals of 24" with vinyl clad tie wires, 13 gauge for double wrap ties or 9 gauge for single wrap ties. Intermediate rails shall be fastened between posts with vinyl clad boulevard type connectors or bands and rail end caps. The terminal ends of all top, bottom, mid and bracing rails shall utilize rail end cups and boulevard hardware that prevents insects from gaining access into top rails.
- K. Bottom Tension Wire: Bottom tension wire shall be No. 6 gauge galvanized steel coil, vinyl coated tension wire, high carbon or hard drawn, Class II, Aluminum Coated, fastened to the chain link fabric at intervals of twenty-four inches (24") with No. 11 gauge galvanized steel hog rings.
- L. Brace Rail for Terminal and Gate Posts: Vinyl coated terminal and gate posts shall be strengthened and reinforced by vinyl coated braces meeting the same specifications as above. Braces shall be installed midway between top rail and court surface and extend from each terminal post to the first adjacent line post. Braces shall be securely fastened to posts by vinyl coated heavy pressed steel connections and also be trussed from line post back to terminal post with a 5/16" vinyl coated round truss rod complete with tightening turnbuckle.
- M. Posts Spacing and Settings: Line and terminal posts shall be set in concrete foundations not less than 12" in diameter and not less than 42" in depth. The concrete shall have a design mix of 3500 PSI. Spacing of posts in the line of fence shall be uniform and no more than ten-feet (10') apart. The smaller side of a "C" post shall be touching the chain link fabric and all open slots shall be facing in the same direction.
- N. Post Tops: Tops of line posts shall be of a vinyl coated steel or aluminum casting capable of providing a through passage for top rail. Terminal post tops shall be of a vinyl coated steel or aluminum casting and be designed so as to exclude all moisture from the terminal post. Post

caps at terminal posts shall be securely fastened to prevent removal.

- O. Gates: Gate openings shall not be less than 4 feet wide and constructed and hung as detailed on drawings. Frame shall be assembled from vinyl coated 2" square aluminum, alloy 6063-T6 or 6061-T6, weighing 0.940 lbs. per foot, Type I pipe weighing 2.72 lbs. per foot, or Type II, 1.90" O.D. round steel pipe weighing 2.28 lbs. per foot. Gate frames shall be welded or alternately shall utilize corner fittings of compressed or riveted type. A diagonal truss rod not less than 5/16" diameter shall be used on frames utilizing corner fittings. Color of the gate frame materials shall match the fence framework and component parts.

1. Fabric matching the fence fabric shall be installed in the frame by means of tension bars and hook bolts or bands. Galvanized gate frame and gate post hinges shall be furnished of adequate strength for the gate size specified and to allow for a 180° swing. Gates shall be equipped with a positive strong arm latching device that will accommodate padlocking. A plunger rod, catch and semi-automatic outer catch shall be installed on drive gates so as to secure gates in an open position. Hinges, latches and catches shall be approved by the Landscape Architect.

P. Hardware

1. All hardware requiring nuts and bolts should have no more than 1/2" of the threaded bolt extending beyond the nut.
2. Gate hinges shall be Bulldog Hinges
3. Gate latches shall be commercial grade Strong Arm gate latches
 - a. Fork & collar not approved

Q. Driven Post Caulk

1. Contractor is responsible to caulk around all driven fence posts.
2. Caulk shall be supplied from the following manufacturer:
 - a. Sportmaster "Courtflex Crack Sealant"
Phone: 800-395-7325
 - b. Color: Neutral

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for a verified survey of property lines and legal boundaries, site clearing, earthwork, pavement work, and other conditions affecting performance of the Work.
1. Do not begin installation before final grading is completed unless permitted by Architect.
 2. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Stake locations of fence lines, gates and terminal posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks and property monuments.

3.2 INSTALLATION

A. All posts shall be set plumb and in accordance with the following table (unless specified otherwise):

1. Corner/Terminal and Bracing Post - General Fence

Fabric Height	Post Depth	Diameter of Foundation	Foundation Depth	Maximum Spacing
0' - 6'-0"	36"	12" min	42"	10'-0"
6'-1" - 12'-0"	36"	12" min	42"	10'-0"

2. Line Post - Backstop

Backstop Height	Post Depth	Diameter of Foundation	Foundation Depth	Maximum Spacing
24'	48"	18" min	60"	Varies
30'	48"	18" min	60"	10'-0"

3. Line posts shall be pneumatically driven into the ground using the following chart*:

Fabric Height	Pipe Below Grade	Total Length of Post
4'	4'	8'
6'	5'	11'
8'	6'	14'
10'	7'	17'
12'	8'	20'

B. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.

C. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.

1. Verify that posts are set plumb, aligned and at correct height and spacing, and hold position during setting with concrete or mechanical devices.
2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.

D. Fence posts shall be installed with maximum 6 inches clear opening from end posts to buildings, fences, property lines or other structures.

E. Install gates level, plum and secure for full opening without interference. Attach hardware using tamper-resistant or concealed means. Adjust hardware for smooth operation and lubricate where necessary.

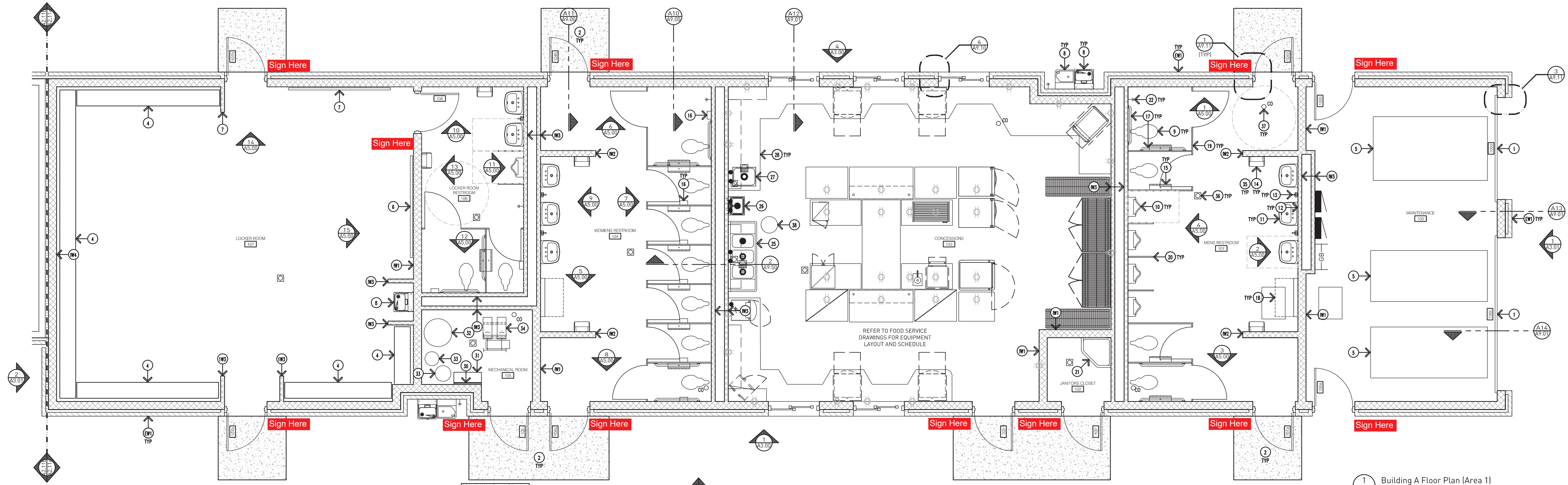
F. The fabric shall be installed on the court/playing side of posts. Bottom of fence fabric shall be 3/4" (+/-1/4") above the finished court surface. Fabric shall be furnished with selvage knuckled on both ends.

G. Top of concrete footing shall be left down and topped with surrounding pavings as detailed. Cold patch is not acceptable.

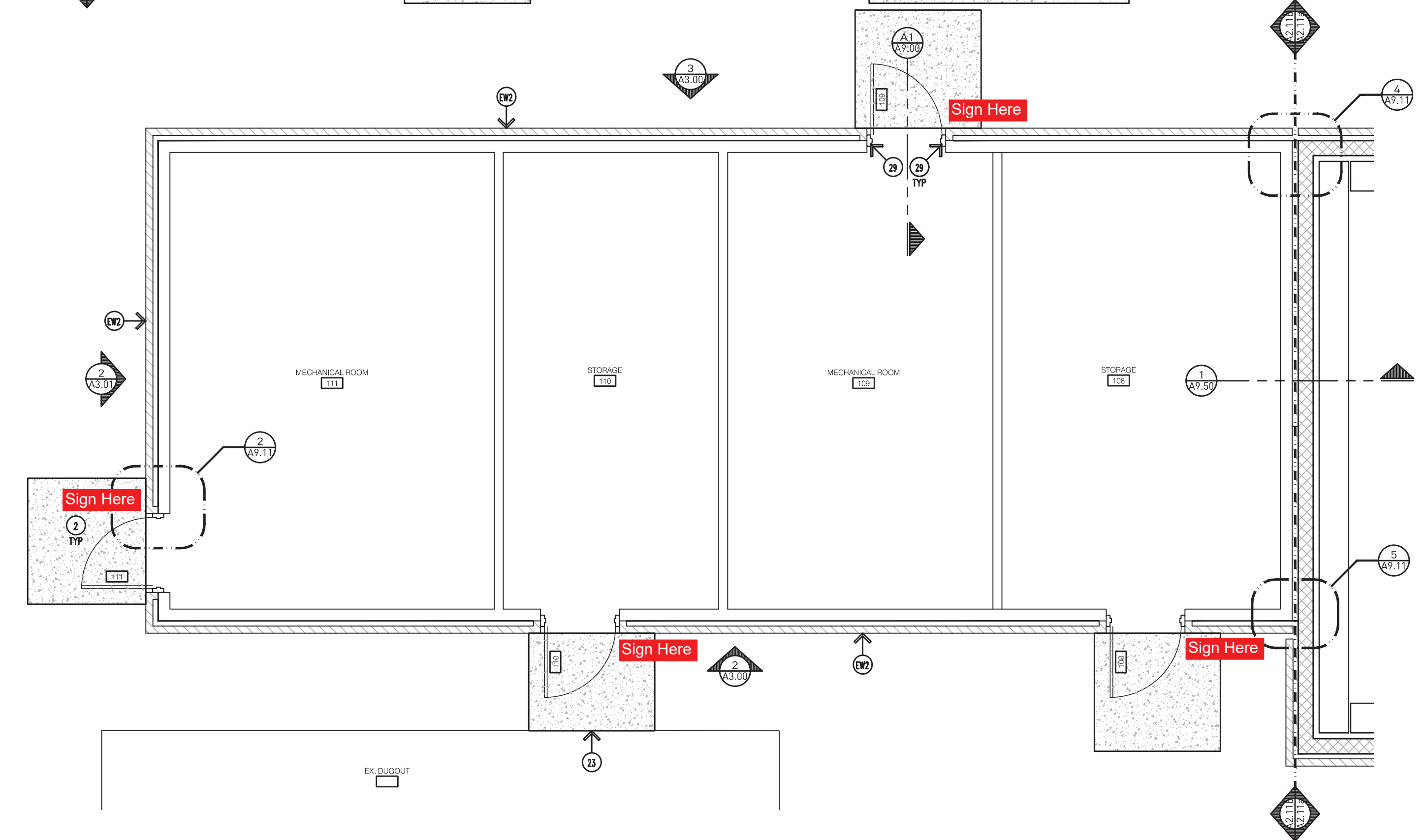
3.3 CLEAN UP AND DISPOSAL

- A. Remove dirt and concrete from all posts and rails
- B. Remove all tags
- C. Remove from the site all equipment, materials, and debris resulting from construction work including this section. Leave work area neat and clean and in a condition acceptable by the Landscape Architect, Owner. All work shall be complete, ready for use, at the time of final acceptance.

END OF SECTION



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:

- 61. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- 62. ALL NOTES MAY NOT APPLY TO THIS SHEET.
- 63. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- 64. PROTECT ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- 65. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED, AND FINISHED BACK TO ORIGINAL CONDITION.
- 66. NEW FINISH FLOOR TO MATCH EXISTING EXACTLY.
- 67. ALL MASONRY TO MATCH EXISTING COURSING EXACTLY. CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO STARTING WORK.
- 68. CONTRACTOR SHALL INSTALL HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 69. CONTRACTOR TO INSTALL ADJUSTABLE BRICK VENEER ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY. FIELD VERIFY CAVITY THICKNESS TO PROVIDE CORRECT ANCHOR SIZE.
- 610. ALL OUTSIDE CORNERS OF INTERIOR CMU MASONRY TO BE BULLNOSE.
- 611. 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

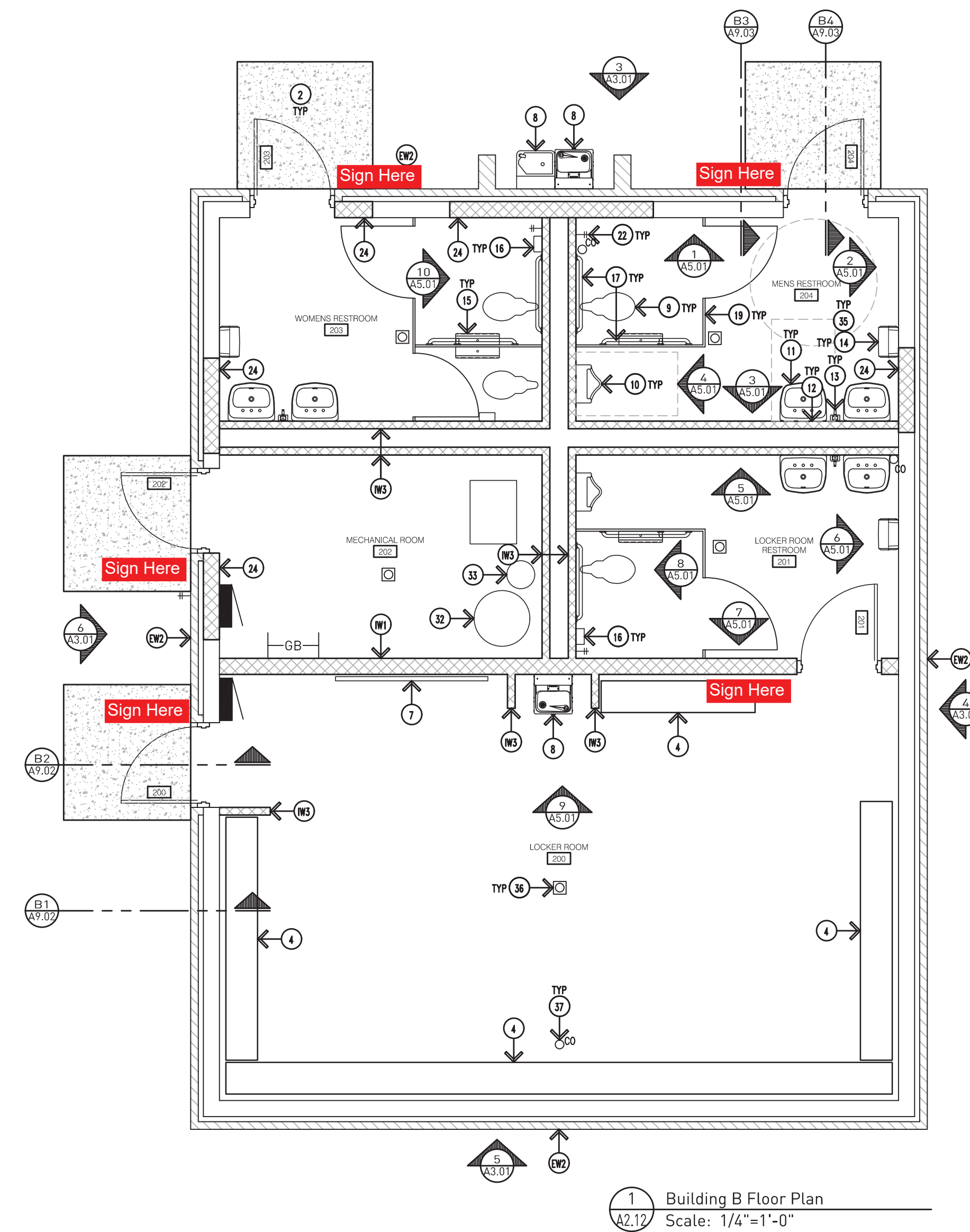


Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

A2.11





1 Building B Floor Plan
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:

- 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 EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- 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 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

