

Crestwood School District Cherry Hill Baptist Church

Administration Relocation and Addition

Crestwood School District
1045 North Gulley Rd. Dearborn, MI, 48127
Contact Name: Penny Morgan, CFO
Contact Phone: (313) 278-2349

ARCHITECT:



LANDSCAPE ARCHITECT:



CIVIL ENGINEER:



STRUCTURAL ENGINEER:



MECH. / ELECT. ENGINEER:



TECHNOLOGY CONSULTANT:



LOCATION PLAN

NOT TO SCALE

APPLICABLE CODES:

MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS:	2015 EDITION
MICHIGAN BUILDING CODE:	2015 EDITION
MICHIGAN PLUMBING CODE:	2018 EDITION
MICHIGAN MECHANICAL CODE:	2015 EDITION
NATIONAL ELECTRIC CODE (WITH MICHIGAN PART 8 RULES):	2017 EDITION
MICHIGAN UNIFORM ENERGY CODE:	2015 EDITION
ASHRAE 90.1-2013:	
LIFE SAFETY CODE 101:	2012 EDITION
FEDERAL ADA LAW:	CURRENT ED.
ACCESSIBLE AND USABLE BUILDINGS & FACILITIES (ANSI A117.1):	2009 EDITION
LICENSING RULES FOR CHILD CARE CENTERS REHABILITATION CODE	2019 EDITION

USE GROUP:

EXISTING USE: A-3 RELIGIOUS & I-4 CHILDCARE
NEW USE: B BUSINESS & I-4 CHILDCARE

ZONING DISTRICT:

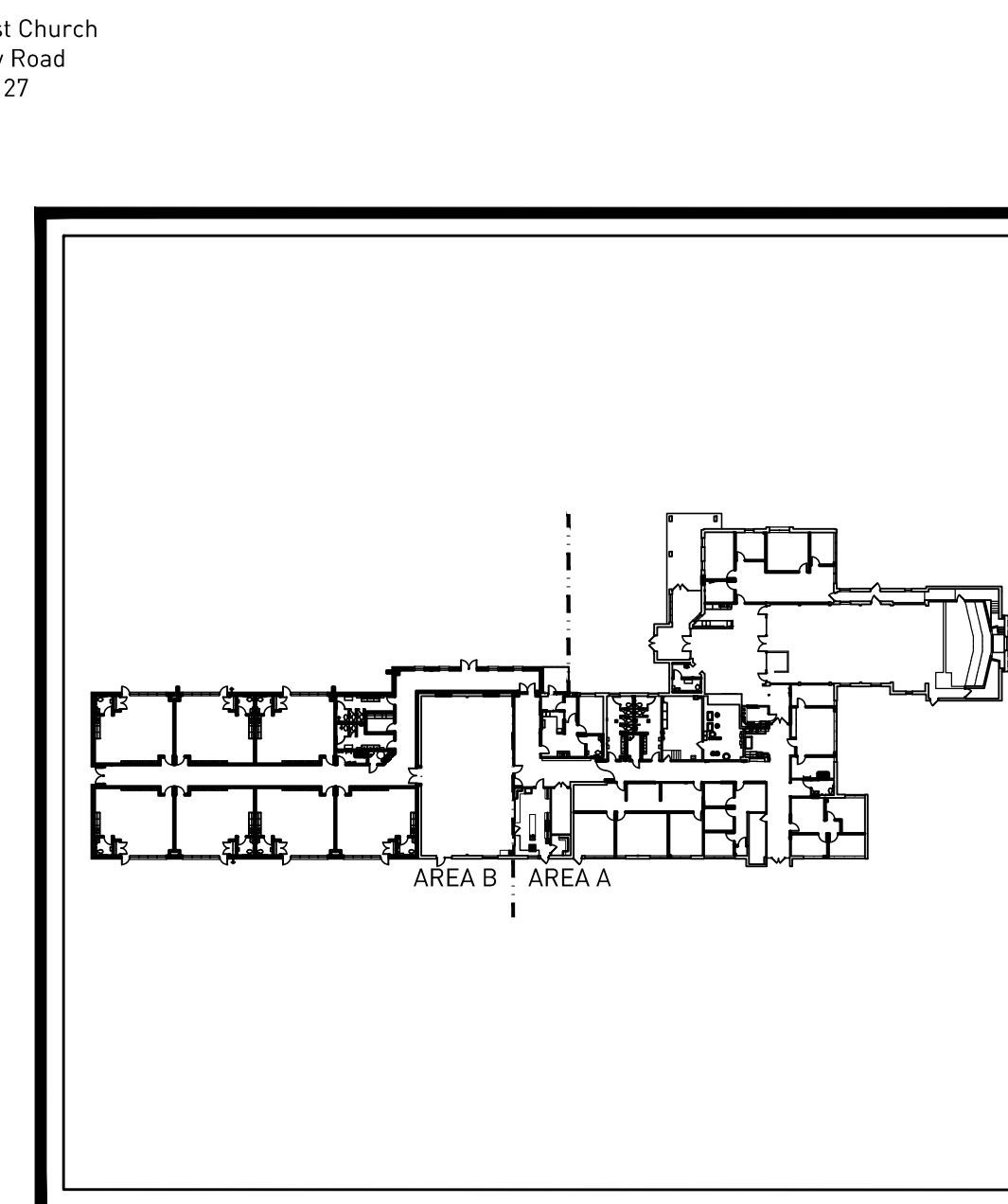
R-1 SINGLE FAMILY RESIDENTIAL

CONSTRUCTION TYPE:

III-B, NOT SPRINKLED

TOTAL FLOOR AREA:

EXISTING FLOOR AREA: 17,711 SF
ADDITION FLOOR AREA: 8,905 SF
TOTAL FLOOR AREA: 26,616 SF (GROSS FLOOR AREA)



BUILDING KEY PLAN

NOT TO SCALE

BUILDING HEIGHT:

EXISTING: ± 19'-3" TO MIDPOINT OF HIGHEST SLOPE
ADDITION: ± 15'-0" TO TOP OF PARAPET

DEFERRED SUBMITTALS:

PER SECTION 107.3.4.1, ANY REQUIRED SUBMITTALS WILL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ASSUMING THE DUTIES OF CONSTRUCTION SUPERVISION AT THE APPROPRIATE TIME.

DEFERRED SUBMITTALS:
1. FIRE ALARM SYSTEMS

LIST OF ALTERNATES:

ALTERNATE #1: BOARD ROOM IMPROVEMENTS
THE PORTION OF WORK TO BE ADDED TO THE BASE PROPOSAL INCLUDES THE FOLLOWING. ALL FINISHES, MECHANICAL, ELECTRICAL, AND TECHNOLOGY WORK AS INDICATED ON THE DRAWINGS TO IMPROVE THE BOARD ROOM. CONTRACTOR TO REFER TO DRAWINGS AND / OR SPECIFICATIONS FOR FURTHER INFORMATION.

LIST OF DRAWINGS

MECHANICAL DRAWINGS:

M0.01	MECHANICAL STANDARDS AND DRAWING INDEX
MD2.11	PLUMBING DEMOLITION PLAN (PART A)
MD3.11	HVAC PIPING DEMOLITION PLAN (PART A)
MD3.12	HVAC PIPING DEMOLITION PLAN (PART B)
MD4.11	SHEET METAL DEMOLITION PLAN (PART A)
MD4.12	SHEET METAL DEMOLITION PLAN (PART B)
M2.01	UNDERGROUND PLUMBING PLAN (PART A)
M2.02	UNDERGROUND PLUMBING PLAN (PART B)
M2.11	PLUMBING PLAN (PART A)
M2.12	PLUMBING PLAN (PART B)
M3.11	HVAC PIPING PLAN (PART A)
M3.12	HVAC PIPING PLAN (PART B)
M4.11	REFRIGERANT PIPING PLAN (PART A)
M4.12	REFRIGERANT PIPING PLAN (PART B)
M5.11	SHEET METAL PLAN (PART A)
M5.11-ALT	SHEET METAL PLAN (PART A) - ALTERNATE
M5.12	SHEET METAL PLAN (PART B)
M6.01	MECHANICAL DETAILS
M6.02	MECHANICAL DETAILS
M6.03	MECHANICAL DETAILS
M7.01	MECHANICAL SCHEDULES
M7.02	MECHANICAL SCHEDULES
M7.03	MECHANICAL SCHEDULES
M7.04	MECHANICAL SCHEDULES
M7.05	MECHANICAL SCHEDULES
M8.01	TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES
M8.02	TEMPERATURE CONTROLS
M8.03	TEMPERATURE CONTROLS
M8.04	TEMPERATURE CONTROLS
M8.05	TEMPERATURE CONTROLS

ELECTRICAL DRAWINGS:

E0.01	ELECTRICAL STANDARDS AND DRAWING INDEX
E0.02	ELECTRICAL STANDARD SCHEDULES
E0.03	ELECTRICAL SITE DEMOLITION PLAN
E0.03	ELECTRICAL SITE NEW WORK PLAN
E0.04	ELECTRICAL COMPOSITE PLAN
ED1.11	ELECTRICAL DEMOLITION PLAN (PART A)
ED1.12	ELECTRICAL DEMOLITION PLAN (PART B)
E2.11	LIGHTING PLAN (PART A)
E2.12	LIGHTING PLAN (PART B)
E3.11	POWER PLAN (PART A)
E3.12	POWER PLAN (PART B)
E5.01	ONE LINE DIAGRAM
E5.02	PANEL SCHEDULES
E5.03	PANEL SCHEDULES
E7.01	ELECTRICAL DETAILS AND DIAGRAMS
E7.02	ELECTRICAL DETAILS AND DIAGRAMS
E7.03	ELECTRICAL DETAILS AND DIAGRAMS
E7.04	ELECTRICAL DETAILS AND DIAGRAMS
E7.05	ELECTRICAL DETAILS AND DIAGRAMS

TECHNOLOGY DRAWINGS:

T2.10	STRUCTURED CABLING SYSTEM COMPOSITE FLOOR PLAN
T2.11	STRUCTURED CABLING SYSTEM FLOOR PLAN (PART A)
T2.12	STRUCTURED CABLING SYSTEM FLOOR PLAN (PART B)
T7.01	STRUCTURED CABLING SYSTEM DETAILS
TP2.10	PUBLIC ADDRESS SYSTEM COMPOSITE FLOOR PLAN
TP2.11	PUBLIC ADDRESS SYSTEM FLOOR PLAN (PART A)
TP2.12	PUBLIC ADDRESS SYSTEM FLOOR PLAN (PART B)
TY2.10	SECURITY SYSTEMS COMPOSITE FLOOR PLAN
TY2.11	SECURITY SYSTEMS FLOOR PLAN (PART A)
TY2.12	SECURITY SYSTEMS FLOOR PLAN (PART B)
TY7.01	SECURITY SYSTEMS DETAILS

LIST OF DRAWINGS

TTL	TITLE SHEET
A0.00	GENERAL INFORMATION
A0.05	COMPOSITE PHASING PLAN
A0.08	PROJECT IDENTIFICATION SIGN
SURVEY DRAWINGS:	
C1 OF 2	TOPOGRAPHICAL SURVEY
C2 OF 2	TOPOGRAPHICAL SURVEY
CIVIL DRAWINGS:	
C1.0	GENERAL PLAN
C2.1	DEMOLITION PLAN
C3.1	UTILITY PLAN
C4.1	PAVING AND LAYOUT PLAN
C5.1	GRADING PLAN
C6.1	SOIL EROSION AND SEDIMENTATION CONTROL PLAN

LANDSCAPE DRAWINGS:

L.101	SITE LANDSCAPE PLAN
L.102	SITE LANDSCAPE PLAN
L.301	SITE LANDSCAPE PLAN
L.302	SITE LANDSCAPE PLAN
L.601	SITE LANDSCAPE PLAN - SPECIFICATIONS
L.602	SITE LANDSCAPE PLAN - SPECIFICATIONS
L.603	SITE LANDSCAPE PLAN - SPECIFICATIONS

STRUCTURAL DRAWINGS:

S0.01	GENERAL STRUCTURAL NOTES
S0.02	GENERAL STRUCTURAL NOTES
S0.03	SPECIAL INSPECTION SCHEDULES
S2.10	FOUNDATION PLAN
S2.11	ROOF FRAMING PLAN
S3.00	TYPICAL CONCRETE SECTIONS
S4.00	TYPICAL MASONRY SECTIONS
S4.01	TYPICAL MASONRY SECTIONS
S6.00	TYPICAL STEEL DETAILS
S7.00	SECTIONS AND DETAILS

ARCHITECTURAL DRAWINGS:

A0.11	ARCHITECTURAL SITE PLAN
A0.12	DUMPSTER ENCLOSURE PLAN & DETAILS
A1.10	REMOVALS COMPOSITE PLAN
A1.11	REMOVALS FLOOR PLAN (AREA A)
A1.12	REMOVALS FLOOR PLAN (AREA B)
A1.13	REMOVALS CEILING PLAN (AREA A)
A1.14	REMOVALS CEILING PLAN (AREA B)
A1.15	REMOVALS ELEVATIONS
A1.16	REMOVALS ELEVATIONS

A2.10	COMPOSITE FLOOR PLAN
A2.11	FLOOR PLAN (AREA A)
A2.12	FLOOR PLAN (AREA B)
A2.13	DIMENSION PLAN (AREA A)
A2.14	DIMENSION PLAN (AREA B)
A2.50	COMPOSITE ROOF PLAN
A2.60	DOOR SCHEDULE
A2.61	DOOR SCHEDULE
A2.80	CABINET SCHEDULE/DETAILS

A3.00	EXTERIOR ELEVATIONS
A3.01	EXTERIOR ELEVATIONS
A3.02	EXTERIOR ELEVATIONS
A3.03	EXTERIOR ELEVATIONS

A3.50	BUILDING SECTIONS
A3.51	BUILDING SECTIONS
A3.52	BUILDING SECTIONS

A4.00	ENLARGED FLOOR PLANS (RESTROOMS)
A4.01	ENLARGED FLOOR PLANS

A5.00	INTERIOR ELEVATIONS
A5.01	INTERIOR ELEVATIONS
A5.02	INTERIOR ELEVATIONS
A5.03	INTERIOR ELEVATIONS

A6.10	COMPOSITE RCP
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A8.10	COMPOSITE FINISH PLAN
A8.11	FINISH PLAN (AREA A)
A8.12	FINISH PLAN (AREA B)

A8.50	ROOM FINISH SCHEDULES
A8.51	MATERIAL SCHEDULE
A8.52	WALL AND FLOOR TILE DETAILS

A9.00	EXTERIOR WALL SECTIONS
A9.01	EXTERIOR WALL SECTIONS
A9.02	EXTERIOR WALL SECTIONS
A9.03	EXTERIOR WALL SECTIONS

A9.10	EXTERIOR DETAILS
A9.11	EXTERIOR DETAILS
A9.12	EXTERIOR DETAILS
A9.13	EXTERIOR DETAILS
A9.14	STANDARD EXTERIOR DETAILS

A9.50	INTERIOR WALL SECTIONS
A9.51	INTERIOR WALL SECTIONS
A9.52	INTERIOR WALL SECTIONS
A9.55	PORTAL WALL SECTIONS

A9.60	INTERIOR DETAILS
A9.61	INTERIOR DETAILS
A9.62	INTERIOR DETAILS

A9.65	PORTAL A DETAILS
A9.66	PORTAL B DETAILS

Bidding and Permits: 31 July 2023

Title Sheet



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

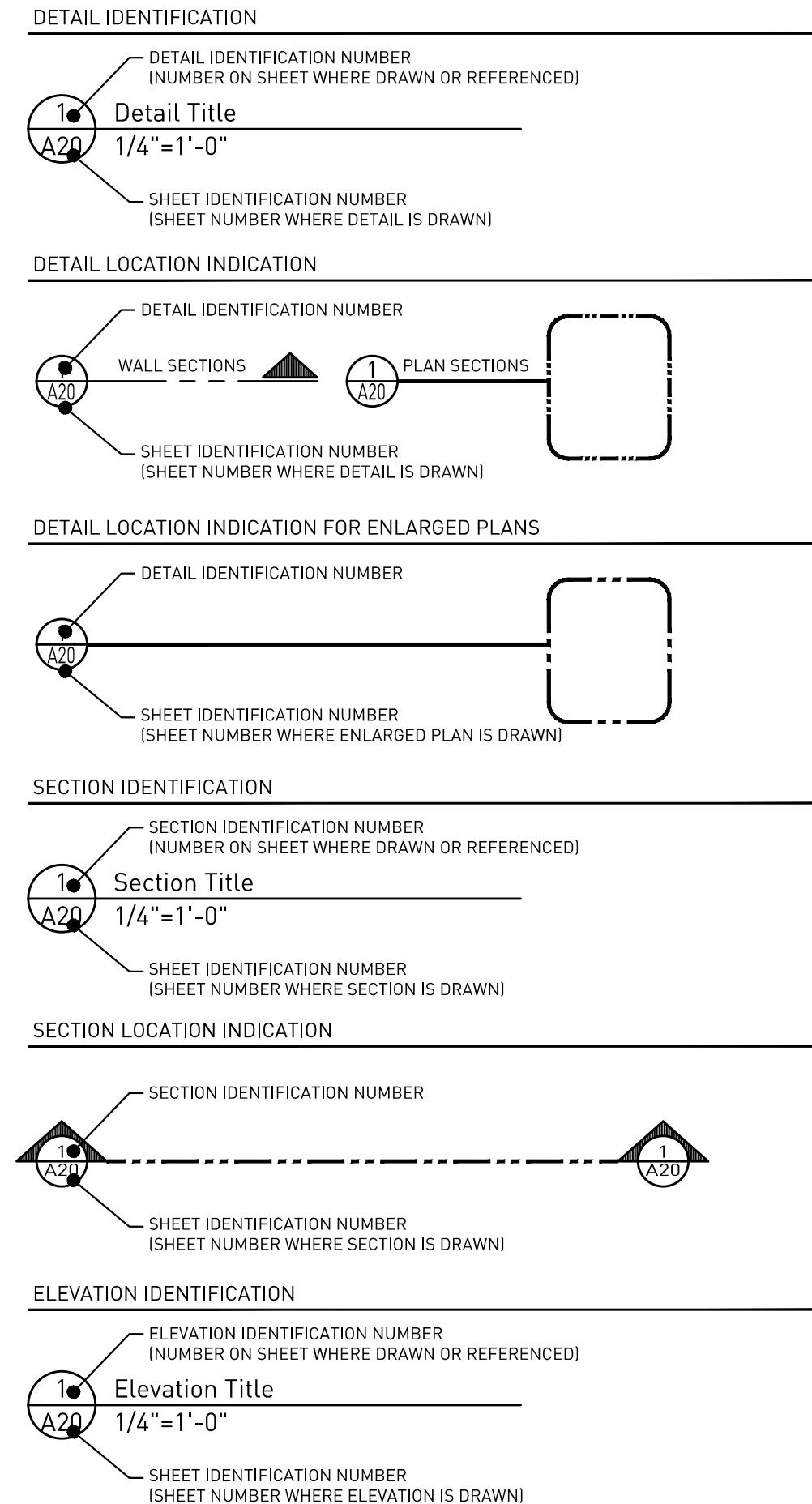
Project No. 3221

TTL

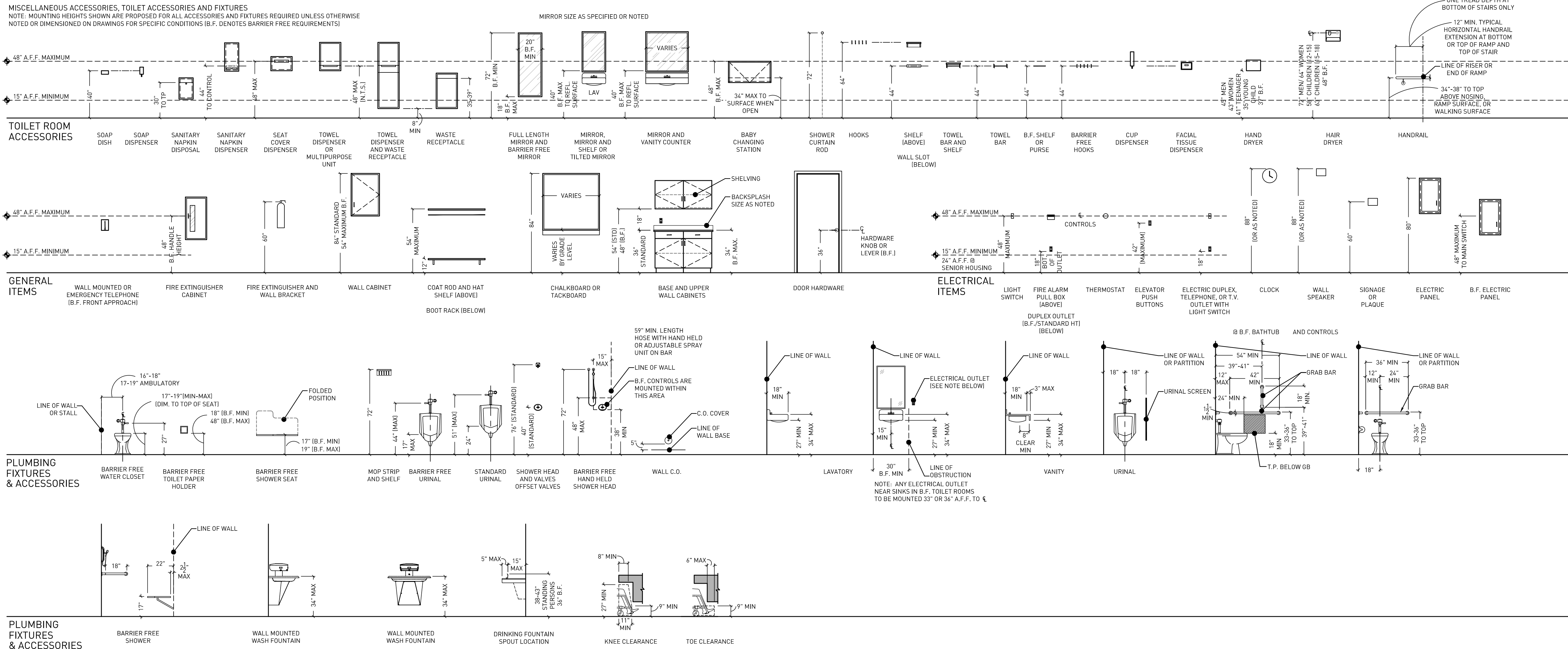
ABBREVIATIONS

A	C (CONTINUED):	D (CONTINUED):	F (CONTINUED):	H (CONTINUED):	M	P (CONTINUED):	S (CONTINUED):	W
ABV. ABOVE FINISH FLOOR	C.T. CAST IRON CATCH BASIN	D.O. DOOR OPENING	F.D. FIRE DAMPER	HR HYD. HOUR HYDRANT	MACH. MACHINE	PORC. PORCELAIN	S SOUTH	WAINS. WAINSCOT
A.F.F. ACCESS ABOVE FINISH FLOOR	C.B. CATCH BASIN	D.O.P. DOOR OPERATOR	F.E. FIRE EXTINGUISHER	HR HYD. HOUR HYDRANT	M.A.U. MAKE-UP AIR UNIT	PORC.ENAM. PORCELAIN ENAMEL	SP SPACE	W.C.O. WALL CLEANOUT
ACC. ACCESS	C.L.G. CEILING	D.O.P. DOOR OPERATOR	F.E.C. FLASHING	HR HYD. HOUR HYDRANT	M.D.P. MAIN DISTRIBUTION PANEL	PORC. PORCELAIN	SPKR SPEAKER	W.H. WALL HYDRANT
ACC. PNL. ACCESS PANEL	C.L.G. HT. CEILING HEIGHT	D.O.P. DOOR OPERATOR	F.F. FLASHING	HR HYD. HOUR HYDRANT	M.S.B. MAIN SWITCH BOARD	PORC. ENAM. PORCELAIN ENAMEL	SPEC. SPECIFICATIONS	W.F. WASH FOUNTAIN
ACT. ACOUSTICAL CEILING TILE	C.M. CEMENT	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	SO. SQUARE	W.C. WATER CLOSET
ADD. ADDENDUM	C.M. PLAS. CEMENT PLASTER	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	SQ. SQUARE FEET	W.C. WATER CLOSET
ADJ. ADJACENT	C.N. CENTER	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	S.S. STAINLESS STEEL	W.H. WATER HEATER
ADJ. ADJACENT	C.C. CERAMIC	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STD. STANDARD	W.P. WATERPROOF
A.C. AIR CONDITIONING	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STM. STEAM	W.W.F. WELDED WIRE FABRIC
A.C.C. AIR CONDITIONING COMPRESSOR	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STL. STEEL	W. WEST
A.C.C.U. AIR COOLED CONDENSING UNIT	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	W.W. WIDEN/WIDTH
A.H.U. AIR HANDLING UNIT	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	W.B. WALL BASE
AL. ALIGN	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	W.O. WINDOW OPENING
AL. ALIGN	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	W.M. WIRE MESH
AL. ALIGN	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	W. WITHOUT
ALUM./AL. ALUMINUM	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	W.O. WOOD
ANCH. ANCHOR	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	W.P. WORKING POINT
ANCH. ANCHOR BOLT	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	Y. YARD
AND. ANODIZED	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	Y.P. YIELD POINT
APT. APARTMENT	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	Y.S. YIELD STRENGTH
APPR. APPROVED	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	YR. YEAR
APPROX. APPROXIMATE	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	Z. ZINC
ARCH. ARCHITECT/ARCHITECTURAL	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	
A.T.M. AUTOMATIC TELLER MACHINE	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	
ASPH. ASPHALT	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	
ASSEMBLY ASSEMBLY	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	
AT. AT	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	
AUTO. AUTOMATIC	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	
AUX. AUXILIARY	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	
AVG. AVERAGE	C.C.T. CERAMIC TILE	D.O.P. DOOR OPERATOR	F.F.C. FLEXIBLE CONNECTION	HR HYD. HOUR HYDRANT	M.M. MAINTENANCE	PORC. ENAM. PORCELAIN ENAMEL	STR. STRUCTURE	

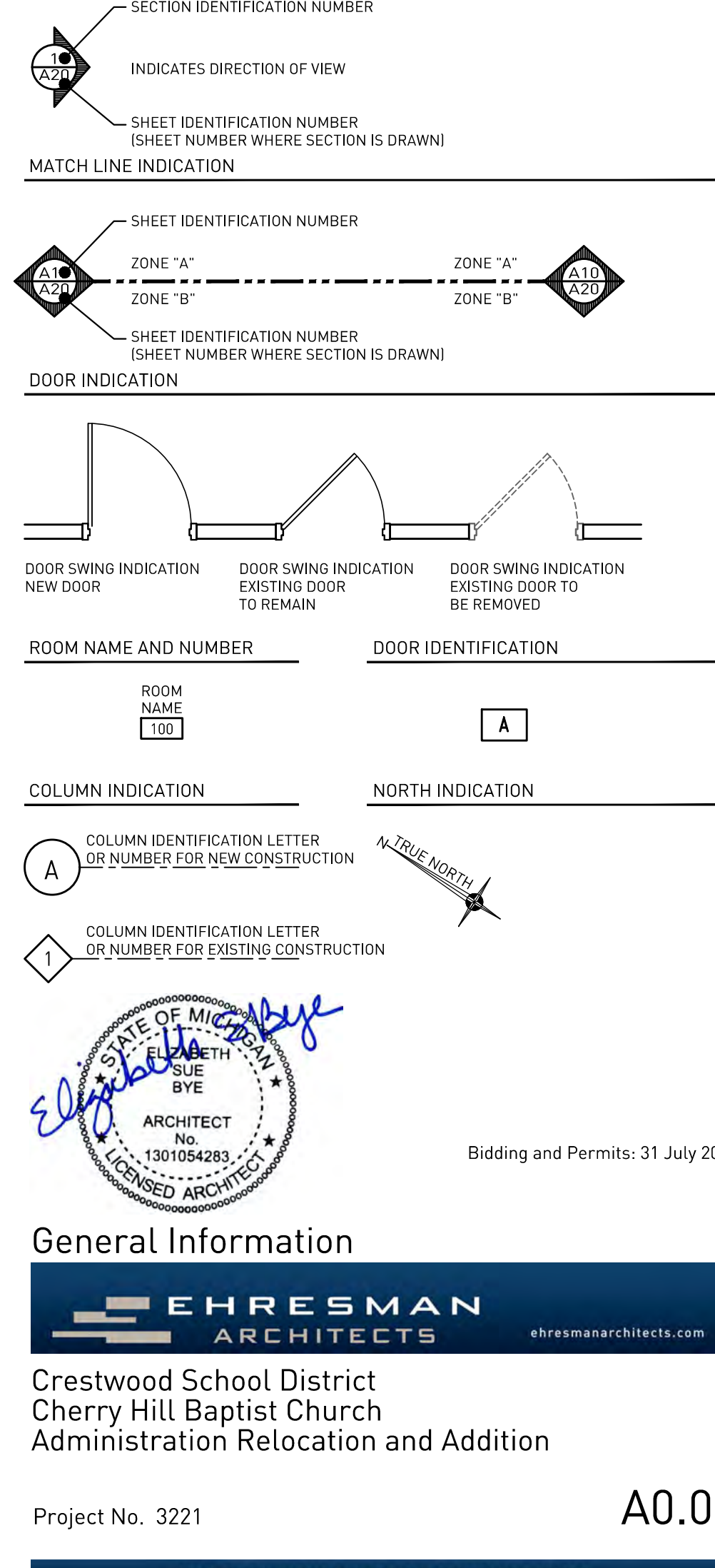
REFERENCE SYMBOLS



TYPICAL MOUNTING HEIGHTS



ELEVATION INDICATION



STATE OF MICHIGAN
 ARCHITECT
 No. 1301054283
 LICENSED ARCHITECT

Bidding and Permits: 31 July 2023

General Information

EHRSMAN ARCHITECTS
 ehresmanarchitects.com

Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

883 W. Big Beaver Road, Suite 350, Troy, MI 48064 | 248.244.9110
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GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. PHASING PLAN ISSUED FOR REFERENCE ONLY.

LEGEND:

PHASE 1	ESTIMATED OCTOBER 2023 - MARCH 2024
PHASE 2	ESTIMATED APRIL 2024 - AUGUST 2024
PHASE 3	ESTIMATED JUNE 2024 - AUGUST 2024



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Cherry Hill Baptist Church
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A0.05

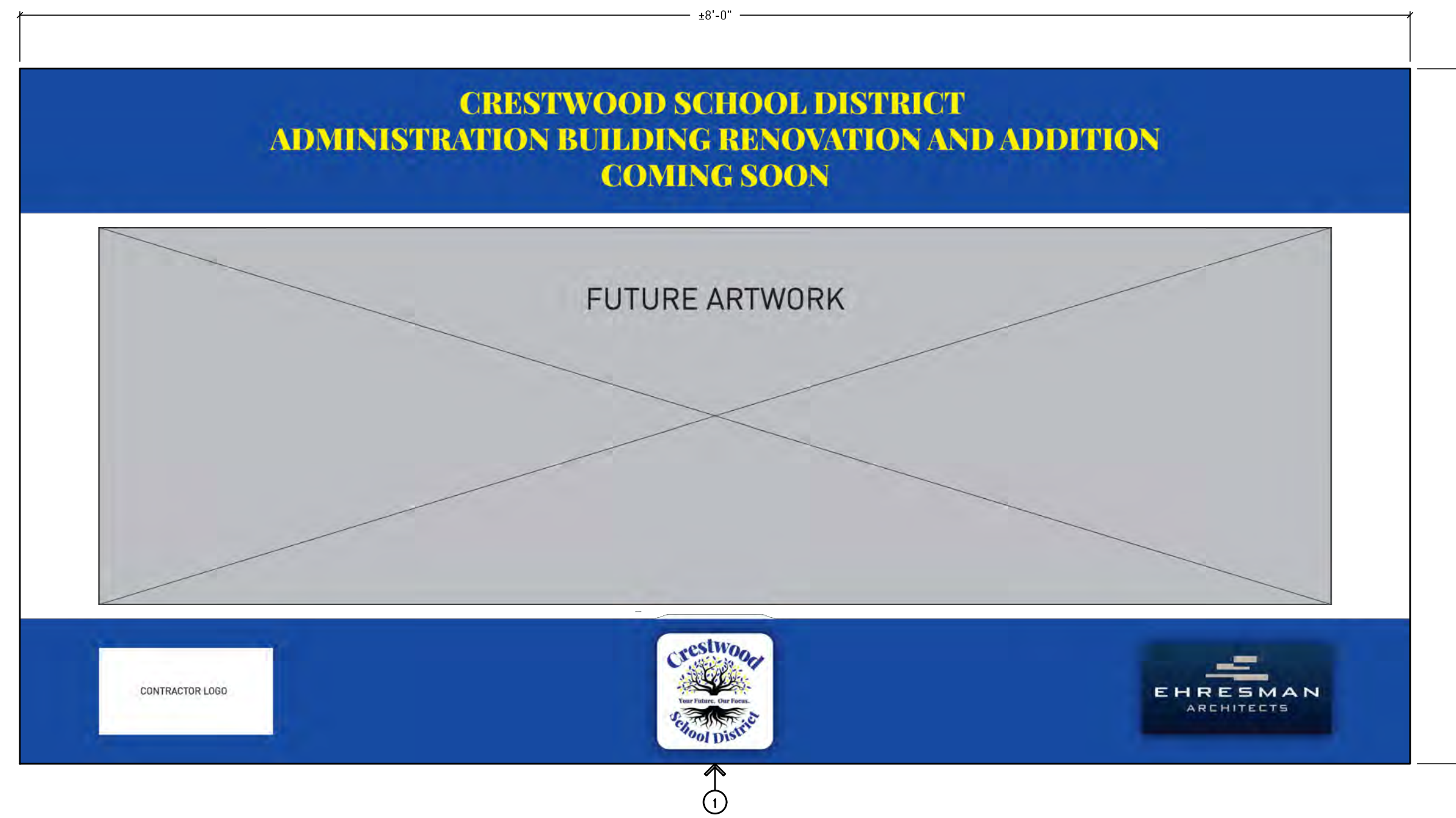


GENERAL NOTES:

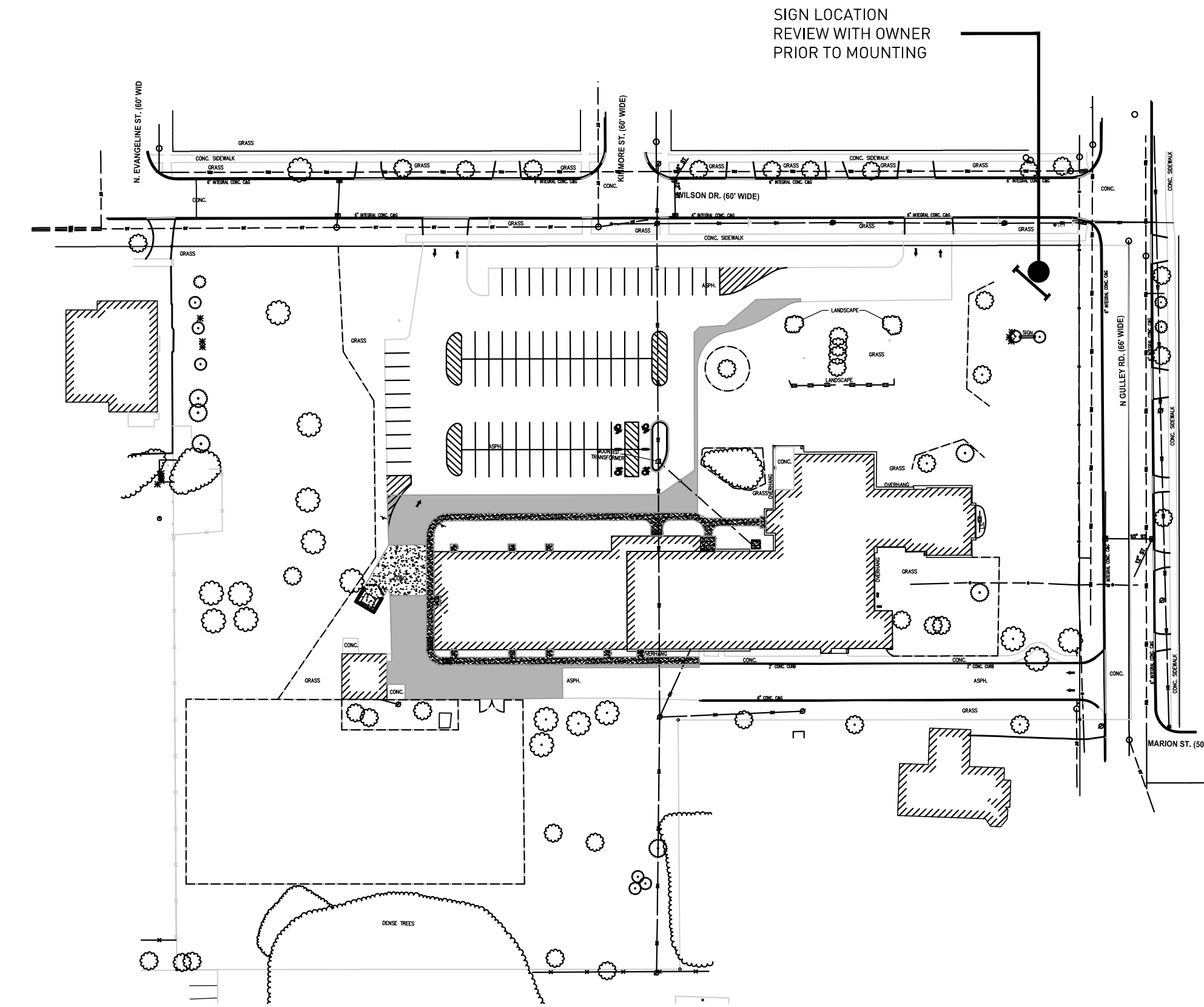
G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

DRAWING NOTES:

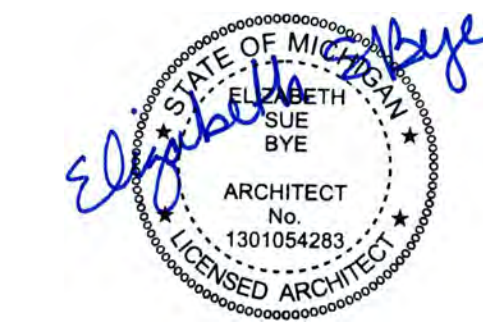
1. "COMING SOON" SIGNAGE MOUNTED ON TWO 4x4 WOOD POST.



2 Sign Layout
A0.08 Scale: NOT TO SCALE



1 Sign Install Location
A0.08 Scale: NOT TO SCALE



Bidding and Permits: 31 July 2023

Project Identification Sign



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

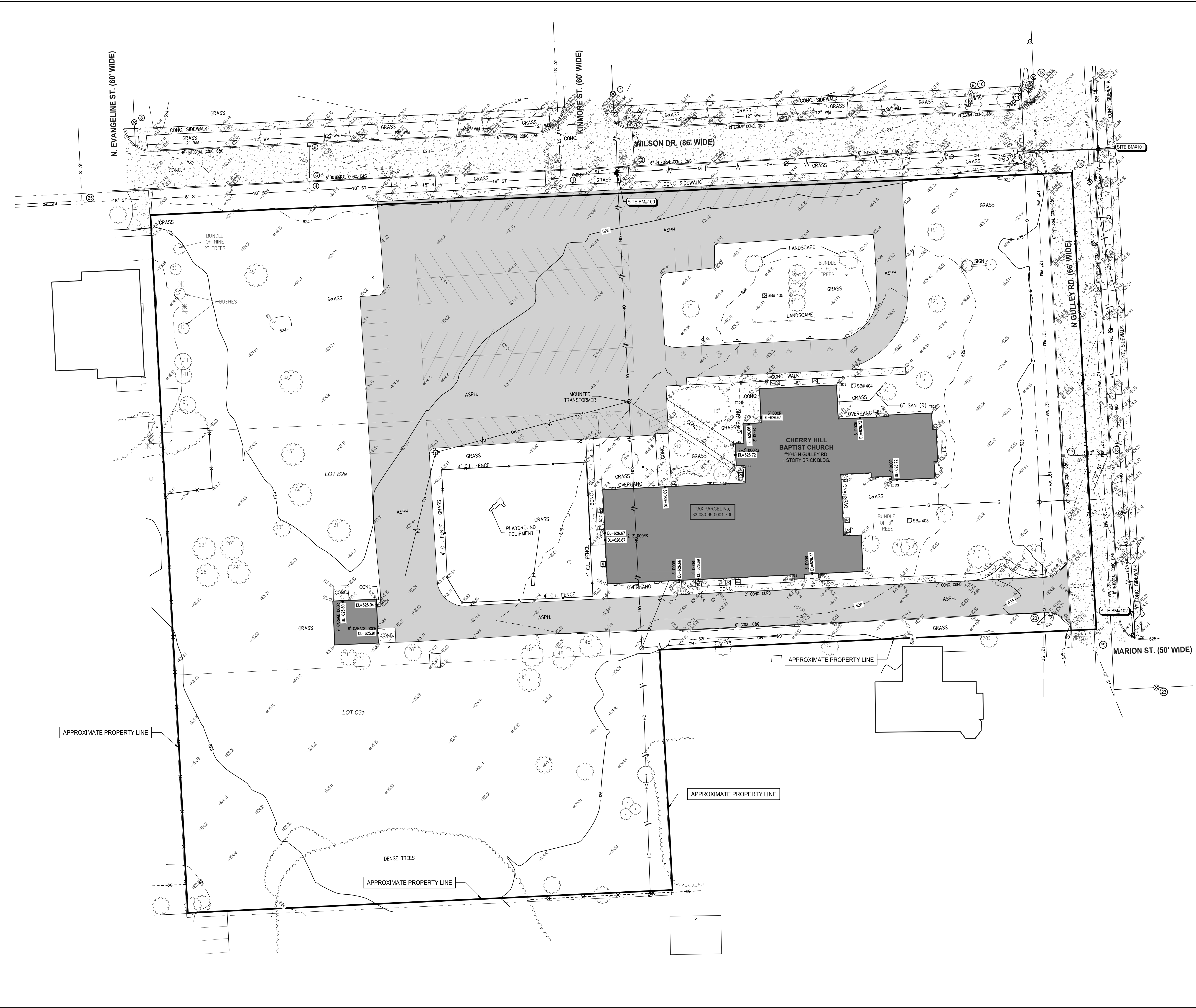
Project No. 3221

A0.08



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
- HAND HOLE
- ELECTRIC RISER OR METER
- TELEPHONE RISER
- CABLE TV RISER
- AIR CONDITION UNIT
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- 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)
- BUY WIRE
- BUY POLE
- GROUND LEVEL / DECORATIVE LIGHTING
- FLAG POLE
- PHONE OR PHONE BOOTH
- METAL OR CONC. POST
- MAILBOX
- SIGN
- WATER FOUNTAIN
- PARKING METER
- BILLBOARD OR LARGE SIGN
- BASKETBALL HOOP
- BOULDER
- STATUE OR SCULPTURE
- BENCH
- STUMP
- DS-S DOWNSPOUT INTO STORM DRAIN
- DS-C DOWNSPOUT TO GROUND
- CONIFEROUS TREE
- DECIDUOUS TREE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- SECTION CORNER
- TRAVERSE POINT
- SDA POINT 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 GAS
- SN SANITARY SEWER (SAN)
- ST STORM SEWER (STM)
- WM WATERMAIN (WM)
- OH OVERHEAD WIRE
- COMBINED SEWER
- STE STEAM LINE
- O OIL LINE
- E UG ELECTRIC (ELEC.)
- T 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
- BANKTOP OF SLOPE
- MAJOR CONTOUR
- MINOR CONTOUR
- BOUNDARY LINES
- ROW LINES
- SECTION LINES
- PROPERTY LINES
- ASPHALT
- CONCRETE
- GRAVEL
- BRICK / PAVERS
- WATER



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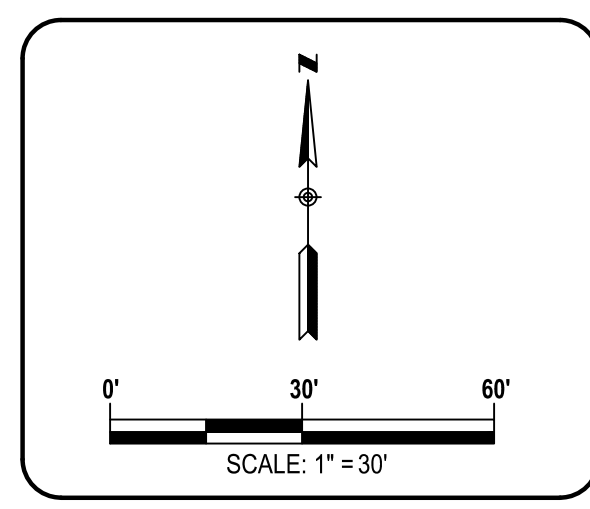
905 South Blvd. East
Rochester Hills, MI 48307
Phone (248) 844-5400
Fax (248) 844-5404

15 E. Baltimore St.
Detroit, MI 48202
Phone (313) 305-9120
Fax (313) 305-9121

27333 Meadowbrook Rd., Suite 210
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Phone (248) 844-6274

400 Ann St. NW, Suite 204
Grand Rapids, MI 49504
Phone (616) 885-5802

www.sda-eng.com
(800) 598-1600



CLIENT:
CRESTWOOD SCHOOL DISTRICT
27235 JOY RD.
DEARBORN HEIGHTS, MI 48127

811
Know what's below.
Call before you dig.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.

UTILITY NOTE

UTILITY INFORMATION ON THIS DRAWING MAY BE FROM INFORMATION DISCLOSED TO THIS FIRM BY THE VARIOUS UTILITY COMPANIES, CITY/COUNTY AGENCIES AND OTHER VARIOUS SOURCES. UNDERGROUND UTILITIES WHICH ARE ON PRIVATE PROPERTY ARE USUALLY NOT DELINEATED UPON A UTILITY COMPANY'S PUBLISHED PLANS. THEIR LOCATION, IF SHOWN UPON THIS SURVEY, ARE APPROXIMATED FROM FOUND PAINT MARKERS/STAKES, ETC. AS LOCATED BY THIS FIRM FROM SOURCES WHICH ARE UNKNOWN. NO GUARANTEE IS GIVEN AS TO THE COMPLETENESS OR ACCURACY THEREOF.

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CHERRY HILL BAPTIST CHURCH
1045 N. GULLEY RD.
DEARBORN HEIGHTS, MI
TOPOGRAPHICAL SURVEY

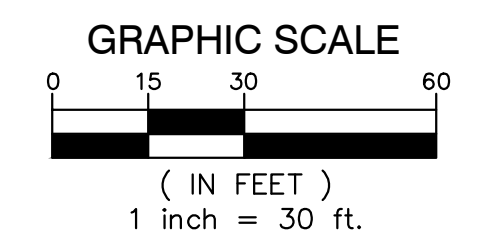
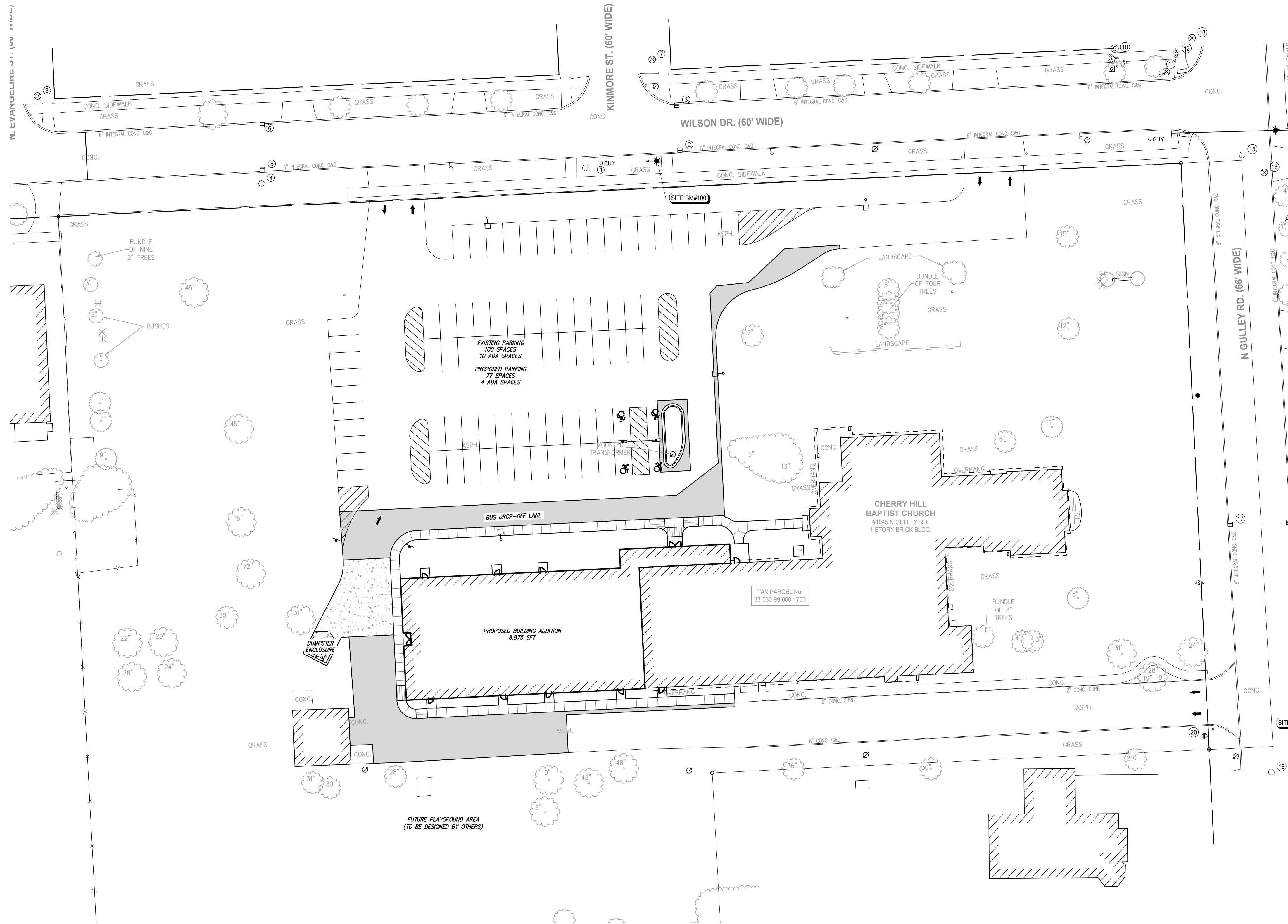
SECTION 17
TOWN 02 SOUTH RANGE 10 EAST
CITY OF DEARBORN HEIGHTS
WAYNE COUNTY, MICHIGAN

NO.	DATE	REVISION
1	6-8-23	ADDED OH WIRE

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

DRAFTER	DATE
M.VAPHADIS	11-30-2021
CHECKED	DATE
D.JACKSON	11-30-2021
FIELD LEADER	PROJECT SURVEYOR
D.HARRIS	D.JACKSON
PROJECT MANAGER	DEPARTMENT MANAGER
D.JACKSON	C.PLATZ
JOB NO.	DRAWING NO.
NP21120	NP21120TPG
SCALE:	SHEET NO.
1" = 30'	2 OF 2

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GENERAL NOTES:
 G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
 G2. COMPOSITE PLAN ISSUED FOR REFERENCE ONLY.
 G3. REFER TO SHEETS A2.11 AND A2.12 FOR FURTHER INFORMATION.

LEGEND			
---	PROPOSED WATERMAIN	●	PROPOSED SAN MANHOLE (SAN)
---	PROPOSED SANITARY	●	PROPOSED STORM MANHOLE (SM)
---	PROPOSED STORM SEWER	■	PROPOSED CATCH BASIN (CB)
---	PROPOSED GAS MAIN	■	PROPOSED INLET (NL)
---	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)	CB	STRUCT. TYPE
		2	STRUCT. NO.
		20	STRUCT. NO.
		10	STRUCT. NO.
		XXX	STRUCT. TYPE
▨	STANDARD BITUMINOUS PAVEMENT		
▨	HEAVY-DUTY BITUMINOUS PAVEMENT		
▨	DEEP-STRENGTH BITUMINOUS PAVEMENT		
▨	CONCRETE PAVEMENT		
▨	CONCRETE SIDEWALK		
▨	MILL PAVEMENT		

SHEET INDEX	
C1.0	- GENERAL PLAN
C2.1	- DEMOLITION PLAN
C3.1	- UTILITY PLAN
C4.1	- PAVING AND LAYOUT PLAN
C5.1	- GRADING PLAN
C6.1	- SOIL EROSION AND SEDIMENTATION CONTROL PLAN
REFERENCE DRAWINGS	
1 OF 2	- TOPOGRAPHICAL SURVEY
2 OF 2	- TOPOGRAPHICAL SURVEY



Bidding and Permits: 31 July 2023



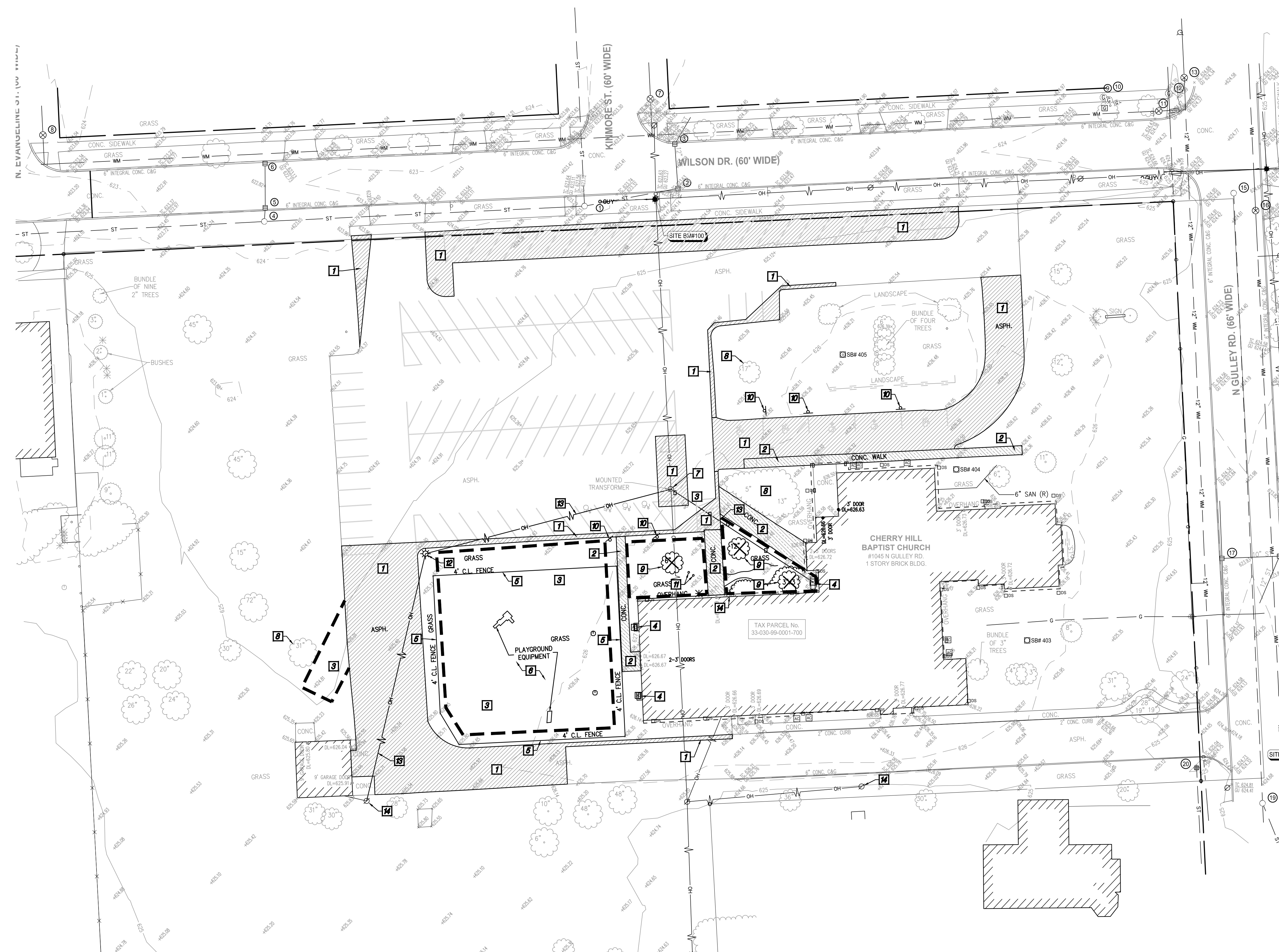
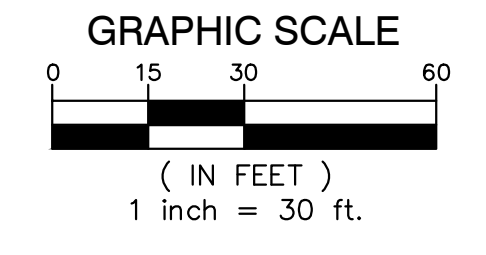
Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

C1.0

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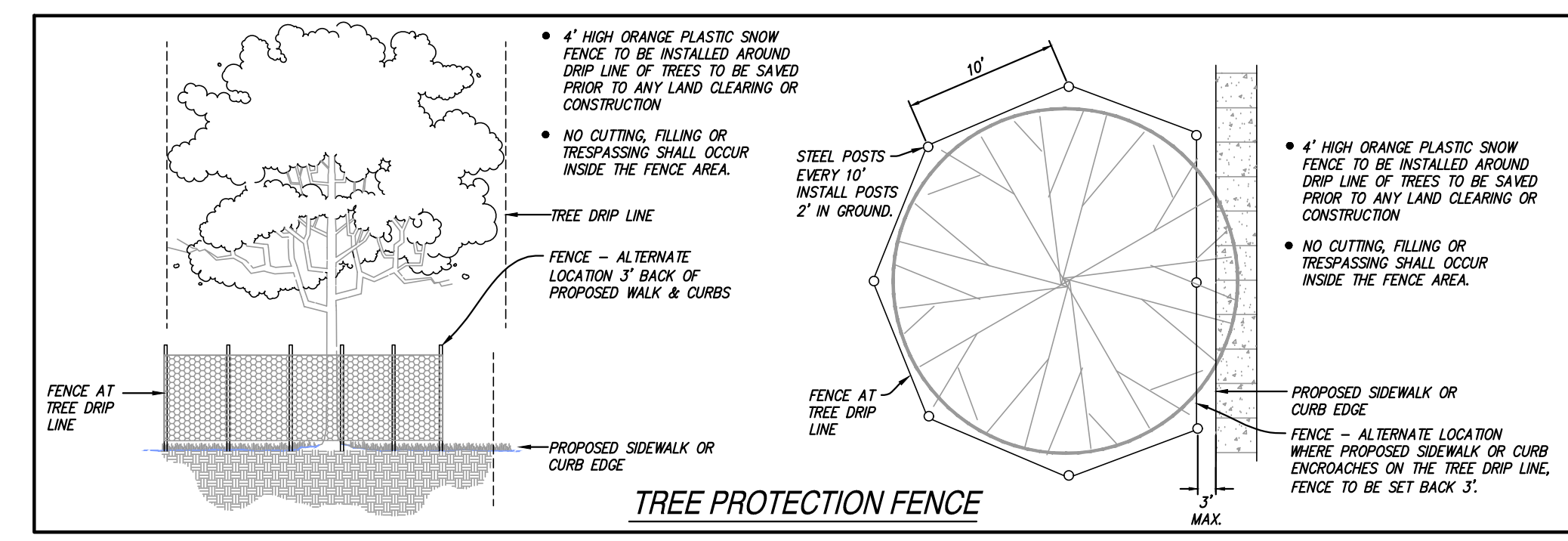
DEMOLITION NOTES

- 1** REMOVE ASPHALT PAVEMENT TO FULL DEPTH. SAWCUT FULL DEPTH WHERE NEW PAVEMENT WILL BE PLACED ADJACENT TO EXISTING PAVEMENT. EXCAVATE EXISTING AGGREGATE BASE AND SUBGRADE AS NECESSARY TO INSTALL NEW PAVEMENT SECTION AS SHOWN ON THE PAVING PLANS, INCLUDING NEW AGGREGATE BASE.
 - 2** REMOVE CONCRETE PAVEMENT TO FULL DEPTH. SAWCUT FULL DEPTH TO NEAREST JOINT WHERE NEW PAVEMENT WILL BE PLACED ADJACENT TO EXISTING PAVEMENT.
 - 3** CLEAR AND GRUB TO THE LIMITS SHOWN. INCLUDE REMOVAL OF ALL SIGNS, POSTS, FOOTINGS, GRAVEL, BRUSH, SHRUBS, GRASS, AND TREES NOT INDICATED FOR PROTECTION, INCLUDING ROOTS. STRIP TOPSOIL AND STOCKPILE ON SITE IN DESIGNATED LOCATION.
 - 4** REMOVE EXISTING AC UNIT. REFER TO MECHANICAL PLANS.
 - 5** REMOVE EXISTING CHAIN LINK FENCE, INCLUDING ALL GATES, POSTS, AND FOOTINGS.
 - 6** REMOVE AND SALVAGE RECREATIONAL AND ATHLETIC EQUIPMENT, BENCHES, BLEACHERS, ETC. THAT FALL WITHIN THE CONSTRUCTION AREA. STAGE IN ON SITE LOCATION AS SPECIFIED BY OWNER (UNLESS NOTED ON THE PLANS).
 - 7** PROTECT EXISTING UTILITIES AND UTILITY STRUCTURES TO REMAIN.
 - 8** PROTECT EXISTING TREES AND LANDSCAPING TO REMAIN DURING CONSTRUCTION. SEE TREE PROTECTION DETAIL THIS SHEET.
 - 9** REMOVE EXISTING TREE (INCLUDING STUMPS AND ROOTS).
 - 10** REMOVE EXISTING SIGN.
 - 11** REMOVE EXISTING POST.
 - 12** REMOVE EXISTING UTILITY POLE.
 - 13** REMOVE EXISTING OVERHEAD WIRE.
 - 14** REMOVE EXISTING LIGHTS FROM POLE. UTILITY POLE TO REMAIN.
- EXISTING SIGNAGE AND MAILBOXES WITHIN THE CLEARING LIMITS ARE TO BE REMOVED AND SALVAGED. STAGE IN ON SITE LOCATION AS SPECIFIED BY OWNER.
- ALL DEPRESSIONS CREATED BY DEMOLITION PROCEDURES SHALL BE BACKFILLED WITH CLASS II FILL MATERIAL, IN 8" LIFTS COMPACTED TO 95% OF MAXIMUM UNIT WEIGHT, UP TO PROPOSED SUBGRADE.
- CONTRACTOR IS RESPONSIBLE FOR DOING AN EARTHWORK CALCULATION FOR CUT AND FILL REQUIREMENTS, AND IS RESPONSIBLE FOR INCLUDING IMPORT AND EXPORT OF MATERIALS IN THEIR BID. ALL EXCESS MATERIAL (INCLUDING TOPSOIL, CLEAN FILL, AND WASTE MATERIAL) SHALL BE REMOVED FROM THE SITE.
- EXISTING SUPPORTED SLABS AT BUILDING ENTRY/DOORS TO REMAIN, UNLESS OTHERWISE DIRECTED. CONTRACTOR TO VERIFY LIMITS OF EXISTING SUPPORTED SLAB AND REMOVE ADJACENT WALKS AS SHOWN ON PLANS.
- CONTRACTOR TO PROTECT EXISTING WALKS, PAVEMENT, CURBS, GUTTERS, WALLS, FENCES, GATES, LANDSCAPING AND TREES TO REMAIN DURING CONSTRUCTION.

SURVEY NOTES

- 1. TOPOGRAPHIC AND/OR BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS MAY BE BASED ON RECORD DATA NOT MEASURED IN THE FIELD.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL INFORMATION SHOWN ON THIS SURVEY AND NOTIFYING THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- 3. CONTRACTOR SHALL UTILIZE A PRIVATE UTILITY LOCATOR TO STAKE PUBLIC AND PRIVATE UTILITY LOCATIONS PRIOR TO START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY, AT NO COST TO THE PROJECT, TO REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING UTILITIES.
- 4. CONTRACTOR SHALL CONTACT MISS DIG (811) THREE WORKING DAYS PRIOR TO THE START OF CONSTRUCTION FOR STAKING OF UTILITIES.

NOTE: CONTRACTOR SHALL UTILIZE A PRIVATE UTILITY LOCATOR TO STAKE PUBLIC AND PRIVATE UTILITY LOCATIONS PRIOR TO START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE ANY DAMAGE TO EXISTING UTILITY LINES.



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

C2.1

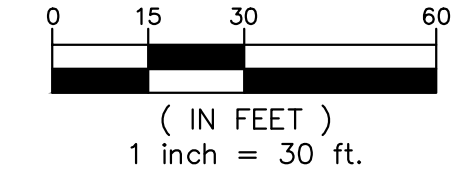
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Bidding and Permits: 31 July 2023

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GRAPHIC SCALE



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 (INL)
--- 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)	○ UTILITY CROSSING (SEE DATA TABLE)
● PROPOSED TAPPING SLEEVE & WELL (TSVW)	CB --- STRUCT. TYPE
	2 --- STRUCT. NO.
	20
	10 --- STRUCT. NO.
	XXX --- STRUCT. TYPE

STANDARD BITUMINOUS PAVEMENT	STORM SEWER STRUCTURE
HEAVY-DUTY BITUMINOUS PAVEMENT	SANITARY SEWER STRUCTURE
DEEP-STRENGTH BITUMINOUS PAVEMENT	CONCRETE SIDEWALK
CONCRETE PAVEMENT	MILL PAVEMENT

UTILITY NOTES

1. WATER MAIN SHALL BE CLASS 54 DUCTILE IRON. WATER MAINS SHALL BE LEAKAGE AND PRESSURE TESTED IN ACCORDANCE WITH AWWA STANDARD C600. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 PRIOR TO BEING PUT INTO SERVICE.
2. ALL UTILITY TRENCHES THAT FALL WITHIN A 1'-0"-1' INFLUENCE OF PAVEMENT AREAS SHALL BE BACKFILLED WITH CLASS 3 SAND AND COMPACTED TO 95% OF MAXIMUM DENSITY.
3. ALL WATER MAIN SHALL BE BURIED WITH 6" OF COVER FROM PROPOSED GRADES. USE 22.5" BENDS TO LOWER WATER MAIN WHERE NOTED AT UTILITY CROSSING.
4. WHERE HYDRANTS ARE INDICATED ON THE PLAN, COMPLETE HYDRANT ASSEMBLIES ARE REQUIRED, INCLUDING SHUT-OFF VALVE AND BOX (REFER TO THE STANDARD DETAIL SHEET FOR DETAILED REQUIREMENTS) THE ELEVATION OF THE VALVE BOX SHALL BE EQUAL TO THE FINISH GRADE (FG) ELEVATION OF THE HYDRANT UNLESS OTHERWISE NOTED.
5. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF DEARBORN HEIGHTS.
6. ALL UTILITIES SHALL BE INSTALLED ON CLASS "B" BEDDING OR BETTER.
7. ALL UTILITIES SHALL BE PLACED AT LEAST 10' FROM OTHER UTILITIES, SIGNIFICANT TREES, AND FIXED STRUCTURES.
8. 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.

SITE IMPACT / STORMWATER MANAGEMENT NOTES

TOTAL HARD SURFACE IMPACT AREA OR EXPANSION = 0.49 ACRES (21,615 SQ. FT.)
 TOTAL EARTH DISTURBANCE = 0.99 ACRES (43,315 SQ. FT.)
 SINCE THE HARD SURFACE IMPACT AREA IS LESS THAN 0.50 ACRES AND THE TOTAL EARTH DISTURBANCE IS LESS THAN 1.00 ACRE, STORMWATER MANAGEMENT MEASURES ARE NOT REQUIRED PER THE COUNTY ORDINANCE AND THE DISTRICT'S M54 REQUIREMENTS (IF APPLICABLE).

WAYNE COUNTY DPS GENERAL NOTES

1. ALL WORK WITHIN THE WAYNE COUNTY ROAD RIGHT-OF-WAY (ROW) AND DRAIN EASEMENT SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND GENERAL SPECIFICATIONS, INCLUDING SOIL EROSION AND SEDIMENTATION CONTROL, OF THE WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES, AND MDOT 2012 SPECIFICATIONS FOR CONSTRUCTION.
2. THESE PLANS ARE NOT VALID WITHOUT ATTACHMENT OF THE WAYNE COUNTY PERMIT SPECIFICATIONS FOR CONSTRUCTION WITHIN THE ROAD ROW, PARKS, DRAIN EASEMENT OR SANITARY SEWER UNDER JURISDICTION OF THE WAYNE COUNTY (07/01/93) REVISED 12/15/2004.
3. CONTRACTOR SHALL CONTACT MGS DIG AT 811 TO IDENTIFY AND FLAG / MARK THE LOCATIONS OF ALL UNDERGROUND UTILITIES AT THE PROPOSED CONSTRUCTION AREAS PRIOR TO START OF CONSTRUCTION, AND SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES, AND RESOLVE ANY CONFLICT BETWEEN THE PROPOSED WORK AND THE EXISTING UNDERGROUND OR ABOVEGROUND UTILITIES.
4. CONTRACTOR SHALL MAINTAIN 18" MINIMUM VERTICAL CLEARANCE AND 3 FEET MINIMUM HORIZONTAL CLEARANCE BETWEEN THE PROPOSED AND EXISTING UTILITIES. ANY PROPOSED UTILITY PERMITTED TO CROSS UNDER THE ROAD OR DRAIN, MUST BE PLACED A MINIMUM OF 7 FEET BELOW THE LOWEST POINT OF THE ROAD, OR 6 FEET BELOW THE DRAIN BOTTOM. OVERHEAD WIRES/CABLES MUST BE INSTALLED 18 FEET MINIMUM ABOVE THE ROAD CENTERLINE. TO RELOCATE ANY UTILITY WITHIN THE ROAD ROW, THE CONTRACTOR SHALL COORDINATE THE RELOCATION WITH THE UTILITY COMPANY AND AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
5. ALL SURVEY MONUMENTS / CORNERS AND BENCH MARKS LOCATED WITHIN THE CONSTRUCTION AREA MUST BE PRESERVED IN ACCORDANCE WITH PUBLIC ACT 74 AS AMENDED (INCLUDING ACT 34, P.A. 2000) AND AS PER WAYNE COUNTY PERMIT RULE 1.5. THE PERMIT HOLDER AND CONTRACTOR SHALL COORDINATE THE WORK WITH A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF MICHIGAN DURING CONSTRUCTION ACTIVITIES FOR THE PURPOSE OF WITNESSING, PRESERVING OR REPLACING SURVEY MONUMENTS AND MONUMENT BOXES.
6. EXPOSURE OF ANY UTILITIES UNDER THE PAVEMENT WILL NOT BE PERMITTED, UNLESS APPROVED BY THE WAYNE COUNTY ENGINEER. PAVEMENT REMOVAL AND REPLACEMENT SHALL BE PERFORMED PER APPLICABLE WAYNE COUNTY STANDARD DETAILS AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
7. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE WAYNE COUNTY ROAD ROW AND DRAIN EASEMENT WITH 3" TOPSOIL, 10% SEED MIX AND MULCH. SLOPES STEEPER THAN 1 ON 3 SHALL BE RESTORED BY PLACING SOIL ON 2" TOPSOIL.
8. ALL BACKFILLS UNDER OR WITHIN 3 FEET OF THE PROPOSED OR EXISTING PAVEMENT, CURB OR SIDEWALK SHALL CONFORM TO THE WAYNE COUNTY TRENCH 'B' BACKFILL REQUIREMENTS. TRENCH 'A' BACKFILL MAY BE USED WITHIN THE ROAD ROW AREAS UNDER CONDITIONS OTHER THAN THOSE SPECIFIED FOR TRENCH 'B'.
9. CONTRACTOR IS RESPONSIBLE FOR RESTORING OR REPLACING ALL DISTURBED LANDSCAPED AREAS, SPRINKLER SYSTEMS, FENCES, SIGNS, MAIL BOXES, ETC. WITHIN THE WAYNE COUNTY ROAD ROW AND 7' OR AS DIRECTED BY THE COUNTY ENGINEER.
10. CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES. OTHERWISE, DETOURING TRAFFIC MUST BE PER APPROVED PLANS. ALL SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF M.M.U.T.C.D.
11. MAINTAIN A SAFE AND ADEQUATE TRAVEL ROUTE FOR PEDESTRIANS AT ALL TIMES THROUGHOUT THE PROJECT DURATION.
12. TUNNELING, BORING AND JACKING OPERATIONS SHALL BE IN ACCORDANCE WITH THE WAYNE COUNTY SPECIFICATIONS AND DETAILS. BORE PITS SHALL BE PLACED AT MINIMUM 10 FEET FROM BACK OF CURB OR EDGE OF PAVEMENT.
13. REMOVE ALL ABANDONED CONDUITS FROM THE COUNTY ROADS ROW OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
14. CONTRACTOR SHALL PROVIDE COLD WEATHER PROTECTION FOR ALL PROPOSED CONCRETE WORK (PAVEMENTS, SIDEWALKS, DRIVE APPROACHES, ETC.) AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
15. GOVERNMENT VEHICLE PARKING AND STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENTS ARE NOT PERMITTED WITHIN THE WAYNE COUNTY ROADS RIGHTS-OF-WAY.
16. CONTRACTOR SHOULD OBTAIN SOIL EROSION AND SEDIMENTATION CONTROL PERMIT FROM THE WAYNE COUNTY DOE, CONTACT SOIL EROSION OFFICE AT (734) 326-3936, OR THE COMMUNITY HAVING JURISDICTION OVER THE SOIL EROSION PERMIT.
17. CONTRACTOR SHALL NOTIFY THE WAYNE COUNTY TRAFFIC SIGNAL SHOP AT (734) 855-2154 AT LEAST 72 HOURS PRIOR TO START OF WORK AT OR NEAR ANY SIGNALIZED INTERSECTIONS.
18. CONTRACTOR SHALL NOTIFY WAYNE COUNTY 72 HOURS PRIOR TO START OF CONSTRUCTION. CONTACT THE PERMIT OFFICE AT (734) 858-2764.



Bidding and Permits: 31 July 2023

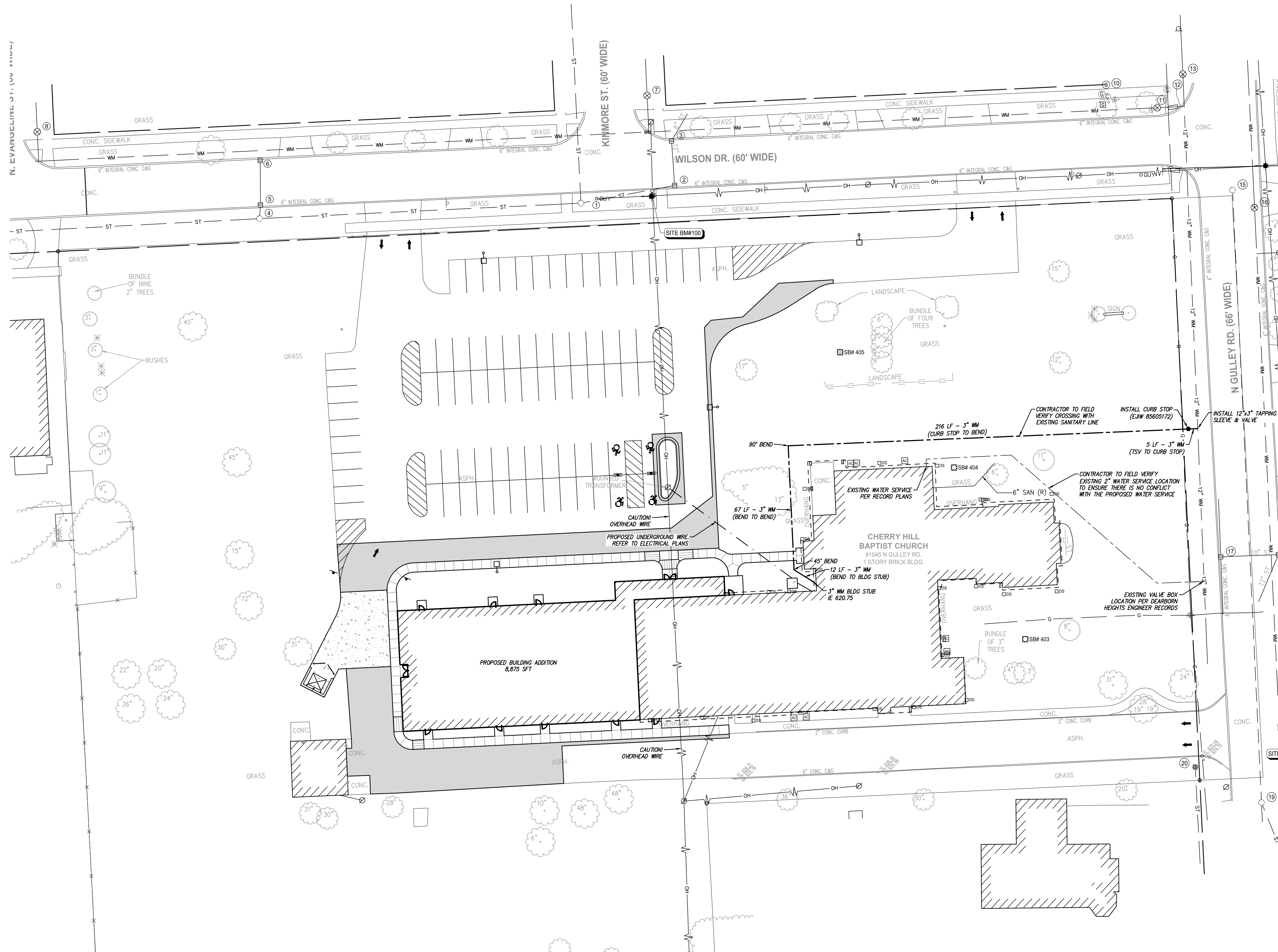
UTILITY PLAN



Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

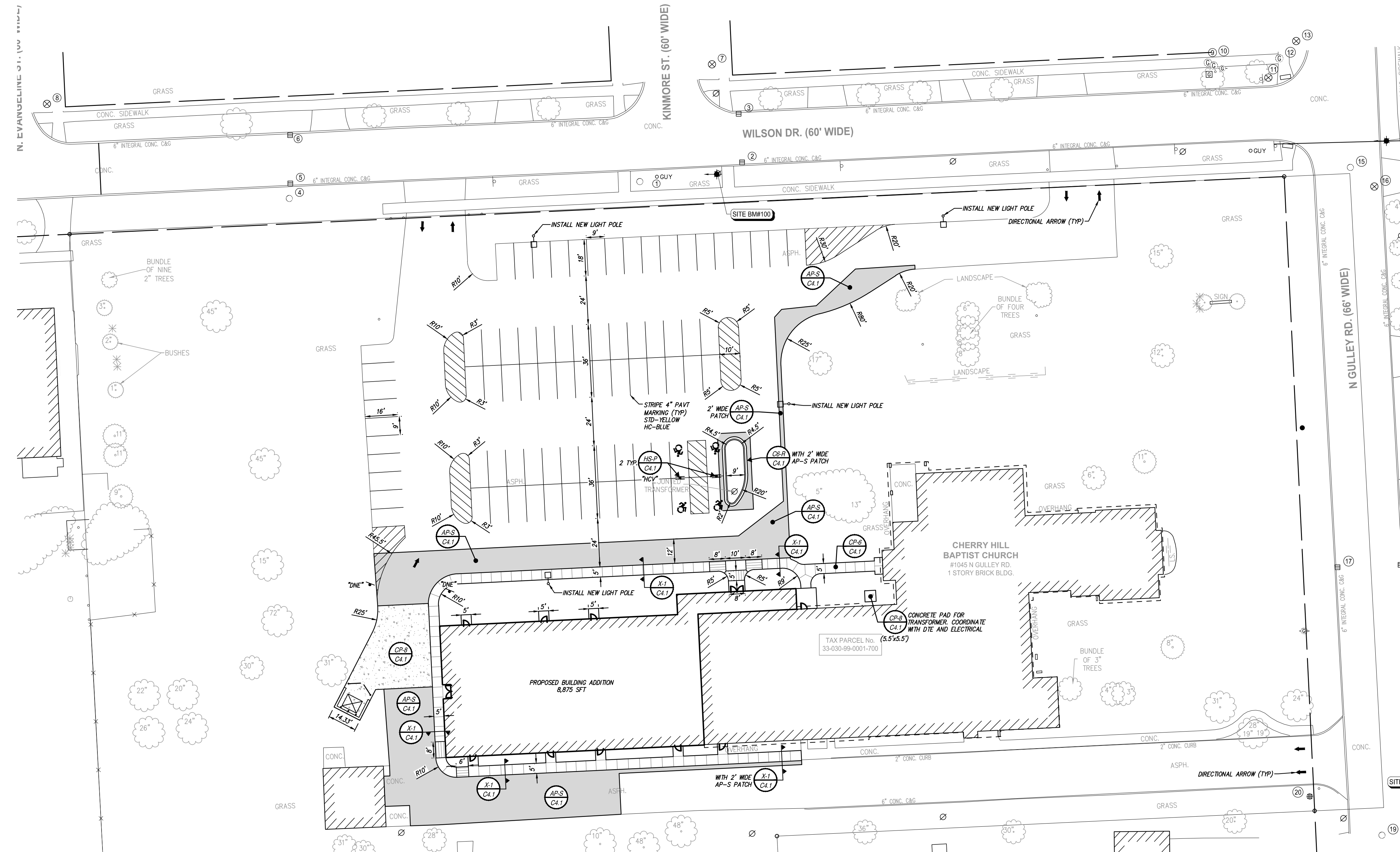
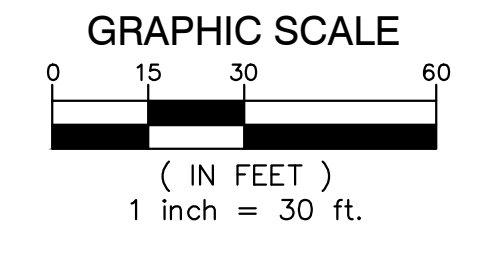
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C3.1



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● PROPOSED GATE VALVE & WELL (GVW)	○ UTILITY CROSSING (SEE DATA TABLE)
● PROPOSED TAPPING SLEEVE, VALVE & WELL (TSVW)	○ CB - STRUCT. TYPE
	○ CB - STRUCT. NO.
	○ 20
	○ 10
	○ XXX

STANDARD BITUMINOUS PAVEMENT	STORM SEWER STRUCTURE
HEAVY-DUTY BITUMINOUS PAVEMENT	SAITARY SEWER STRUCTURE
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CONCRETE PAVEMENT	
CONCRETE SIDEWALK	
MILL PAVEMENT	

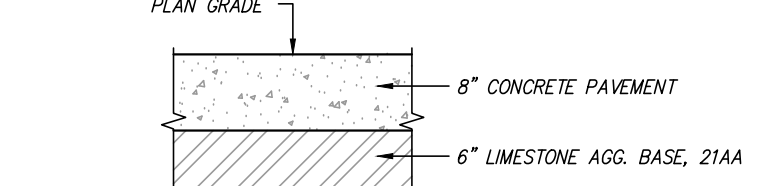
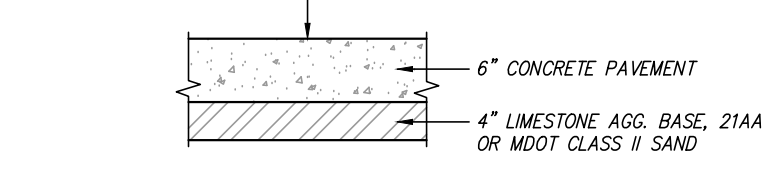
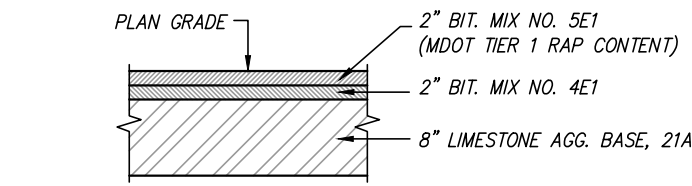
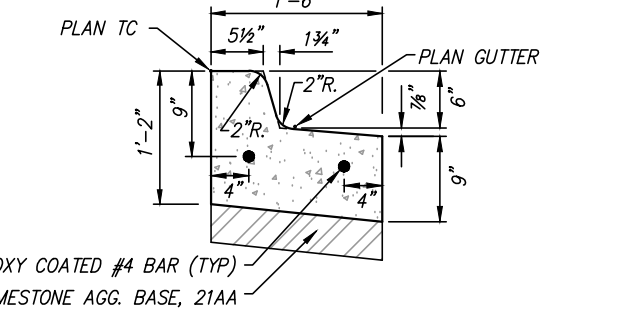
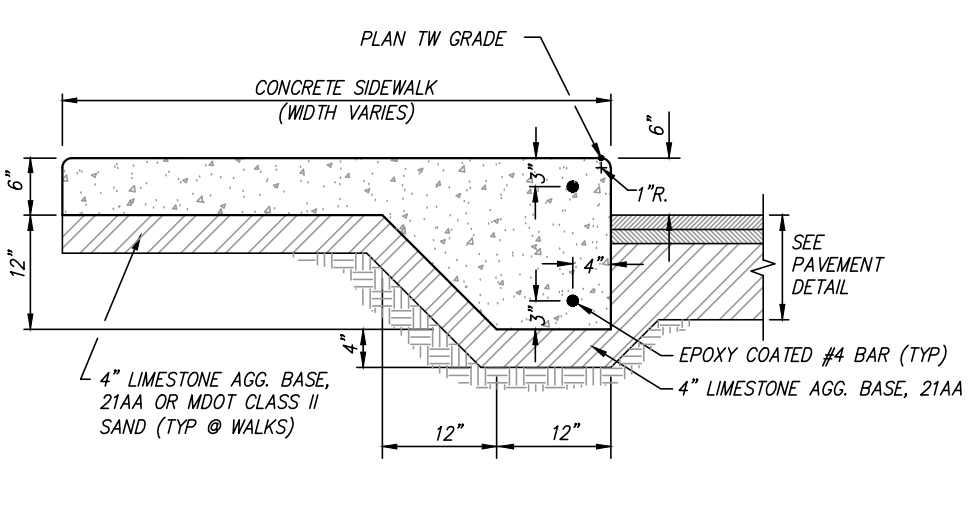
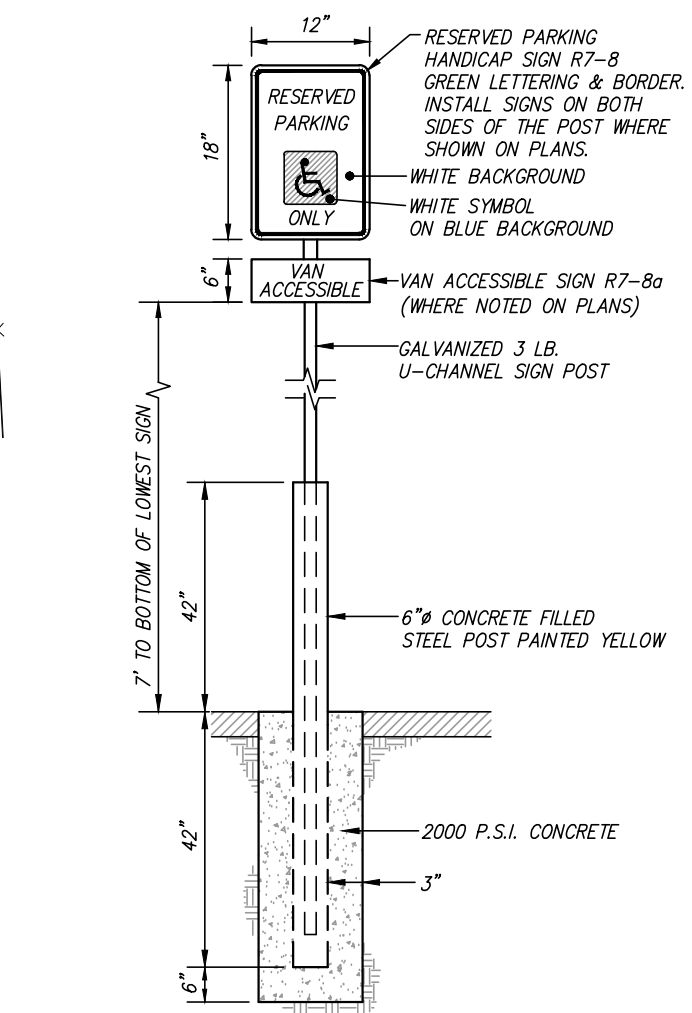
- ### PAVING CONSTRUCTION NOTES
- EARTHWORK AND PAVEMENT CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION UNLESS OTHERWISE NOTED IN THE FOLLOWING ITEMS.
 - REMOVE ANY EXISTING TOPSOIL, VEGETATION, TREES AND OTHER DELETERIOUS MATERIALS TO EXPOSE THE SUBGRADE SOIL. TREE ROOTS SHALL BE COMPLETELY REMOVED.
 - EXCAVATE TO THE DEPTH OF THE FINAL SUBGRADE ELEVATION TO ALLOW FOR GRADE CHANGES AND THE PLACEMENT OF THE RECOMMENDED PAVEMENT SYSTEM.
 - THE TOP 12 INCHES OF THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A DENSITY NO LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR (ASTM D 1557-91).
 - THE FINAL SUBGRADE SHALL BE THOROUGHLY PROFFEROLLED UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS WHICH CANNOT BE MECHANICALLY STABILIZED SHALL BE REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
 - THE AGGREGATE BASE SHALL BE COMPACTED TO A DENSITY NO LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR (ASTM D 1557-91). THE BASE SHALL EXTEND A MINIMUM OF 1 FOOT BEYOND THE PAVED EDGE.
 - ALL BITUMINOUS MATERIAL SHALL BE COMPACTED TO A DENSITY NO LESS THAN 97 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE MARSHALL METHOD.
 - A BOND COAT OF SS-1H EMULSION IS REQUIRED BETWEEN THE LEVELING COURSE AND THE WEARING COURSE WHEN EITHER 24 HOURS HAVE ELAPSED BETWEEN PLACEMENT OF THE BITUMINOUS COURSES OR THE SURFACE OF THE PAVEMENT HAS BEEN CONTAMINATED WITH DIRT, DUST, OR FOREIGN MATERIAL. THE BOND COAT SHALL BE APPLIED IN A UNIFORM MANNER OVER THE SURFACE AT A RATE OF 0.1 GALLONS/S.Y. IN THE EVENT A BOND COAT IS NOT REQUIRED, THE LEVELING COURSE MAY REQUIRE LOCALIZED BROOM CLEANING.
 - PERFORMANCE GRADE PG64-22 ASPHALT CEMENT SHALL BE USED IN THE PRODUCTION OF ALL BITUMINOUS MIXTURES. RECLAIMED ASPHALT PAVEMENT (RAP) SHALL BE ALLOWED ONLY AS SPECIFIED BY THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, UNLESS NOTED ON THE PROJECT DETAILS.
 - CONSTRUCTION TRAFFIC SHALL BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE PLACEMENT OF THE FINAL LIFT SHALL BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR TO ANY DAMAGED SECTION RESULTING FROM CONSTRUCTION ACTIVITY.
 - TAPER CURB HEIGHT DOWN TO ZERO HEIGHT IN FIVE FEET AT ALL CURB ENDINGS UNLESS OTHERWISE NOTED ON THE PLAN.
 - WHERE CURB AND GUTTER SECTION IS ADJACENT TO A HANDICAP RAMP, DROP CURB HEIGHT TO MAXIMUM 1/4" ACROSS THE RAMP OPENING.
 - PAVEMENT REHAB SHALL BE PERFORMED PER THE CURRENT MDOT STANDARD SPECS FOR CONSTRUCTION. BLOW OUT EX. CRACKS WITH COMPRESSED AIR TO REMOVE ALL DIRT, VEGETATION, AND FOREIGN MATERIAL. USE "OVERBAND CRACK FILL" PER SECTION 505 OF MDOT SPECS FOR ALL CRACKS IN EXCESS OF 1/4" WIDTH. CLEAR SURFACE OF ALL DEBRIS AND THOROUGHLY WASH THE SURFACE AS INDICATED IN SECTION 506.03.C. PROVIDE AND APPLY SLURRY SEAL PER SECTION 506 OF THE MDOT SPECS.
 - RESTRIPING PARKING LOTS AS SHOWN, USING 4" PAVEMENT MARKING - BLUE FOR HANDICAP SPACES, YELLOW FOR STANDARD SPACES. IF NEW PARKING LAYOUT IS NOT INDICATED, MATCH ORIGINAL STRIPING PATTERN.
 - DIRECTIONAL ARROW PAVEMENT MARKINGS AND PAVEMENT MARKING LETTERING WHERE INDICATED SHALL BE WHITE PREGRADE THERMOPLASTIC UNLESS OTHERWISE NOTED. INSTALLATION OF THESE PERMANENT PAVEMENT MARKINGS SHALL BE PERFORMED PER THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTIONS 811 AND 920.
 - CONTRACTOR SHALL PROTECT EXISTING CURB, GUTTER, SIDEWALK, WALLS, FENCES AND ALL OTHER EXISTING SITE FEATURES NOT INDICATED FOR REMOVAL OR REHABILITATION.
 - PLACE EXPANSION JOINTS WHERE NEW CONCRETE PAVEMENT OR WALKS ABUT BUILDING WALLS (PROPOSED OR EXISTING), CURB, OR EXISTING CONCRETE PAVEMENT. PLACE JOINT SEALANT ON ALL EXPANSION JOINTS.
 - CONTRACTOR TO CONSTRUCT CONTRACTION AND EXPANSION JOINTS IN ALL NEW CONCRETE PAVEMENT. CONTRACTION JOINTS SHALL BE TOOLED WHERE SIDEWALK WIDTH IS 8' OR LESS, AND SHALL BE SPACED EQUAL TO THE WIDTH OF THE PAVEMENT (I.E. 8' SPACING FOR 8' WIDE WALKS) BUT NOT MORE THAN 10' APART. PLACE EXPANSION JOINTS WHERE JOINT SEALANT AT MAXIMUM 50' SPACING. CONTRACTOR SHALL GENERALLY MATCH THE JOINT PATTERNS FOR CONCRETE PAVEMENT WHEN SHOWN ON THE PLANS.
 - CONCRETE PAVEMENT SHALL MEET THE REQUIREMENTS FOR MDOT GRADE 4000 CONCRETE PER THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.



PROPOSED SIGN LEGEND

"HCV" - RESERVED PARKING HANDICAP ONLY VAN ACCESS
 "DNE" - ONE WAY - DO NOT ENTER

ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE CURRENT M.M.U.T.C.D. AND THE MDOT TRAFFIC AND SAFETY SIGN SUPPORT STANDARD PLANS.



DETAIL HANDICAP SIGN IN PAVEMENT DETAIL (HS-C4.1)

SECTION INTEGRAL WALK/CURB (X-1 C4.1)

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

DETAIL STANDARD BITUMINOUS PAVEMENT (AP-3 C4.1)

DETAIL 6" CONCRETE WALK (CP-2 C4.1)

DETAIL 8" CONCRETE PAVEMENT (CP-2 C4.1)

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Bidding and Permits: 31 July 2023

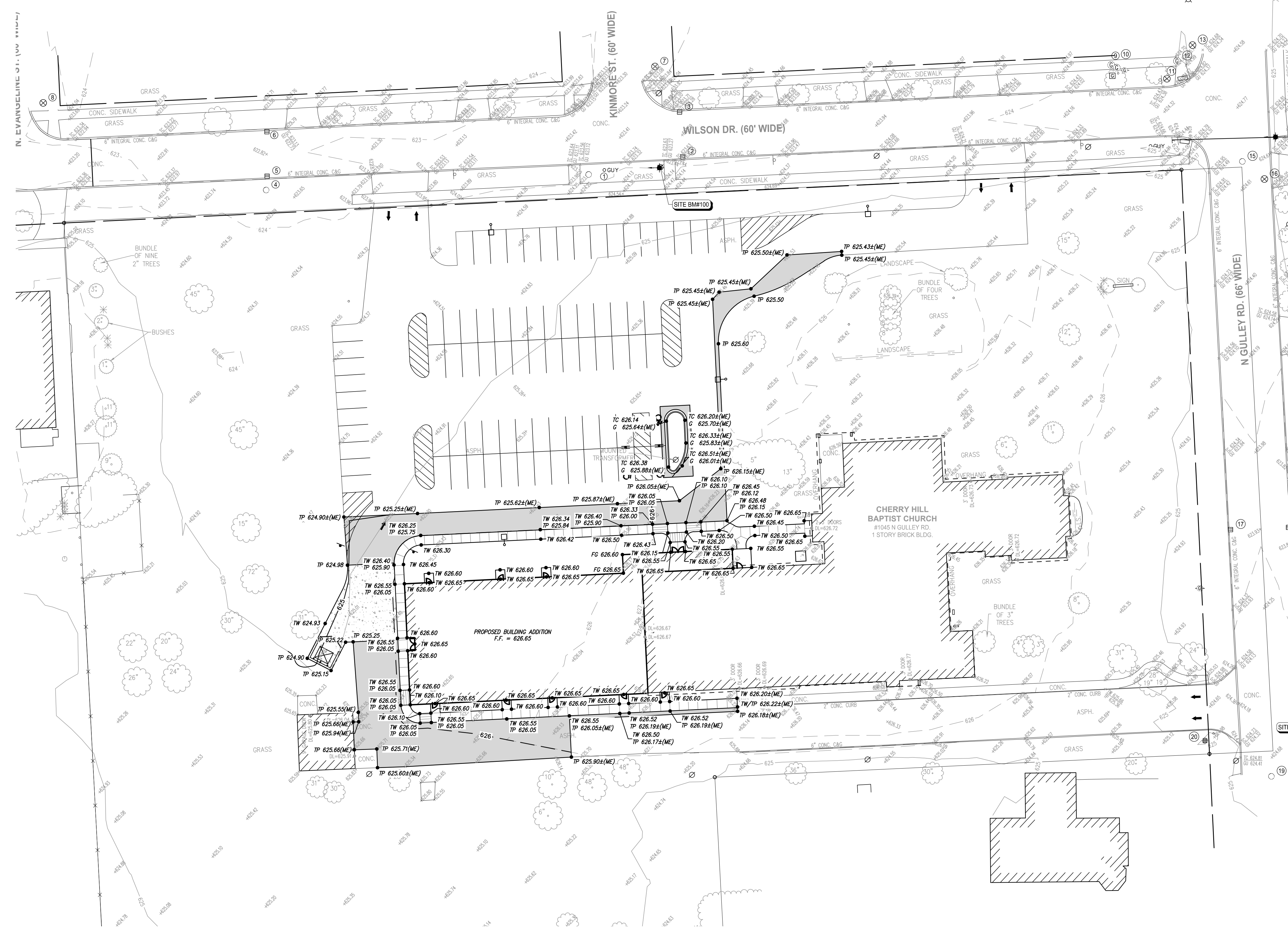
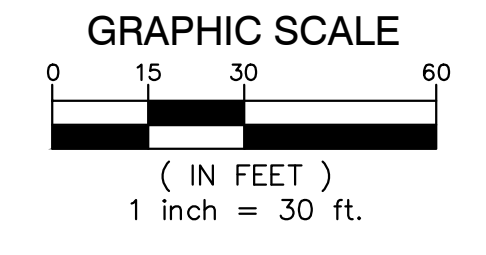


Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221 C4.1

GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. COMPOSITE PLAN ISSUED FOR REFERENCE ONLY.
- G3. REFER TO SHEETS A2.11 AND A2.12 FOR FURTHER INFORMATION.



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 (INL)
--- PROPOSED ELECTRIC	▶ PROPOSED END SECTION (ES)
● PROPOSED HYDRANT	⊕ PROPOSED FIELD CATCH BASIN (FCB) w/ BEEHIVE COVER OR STANDOFF (SF) w/ BAR GRATE COVER
● PROPOSED GATE VALVE & WELL (GVW)	○ UTILITY CROSSING (SEE DATA TABLE)
○ PROPOSED TAPPING SLEEVE VALVE & WELL (TSVW)	CB --- STRUCT. TYPE 2 --- STRUCT. NO.
■ STANDARD BITUMINOUS PAVEMENT	○ SANITARY SEWER STRUCTURE 20
■ HEAVY-DUTY BITUMINOUS PAVEMENT	○ WATERMAIN STRUCTURE 10 XXX --- STRUCT. TYPE
■ DEEP-STRENGTH BITUMINOUS PAVEMENT	
■ CONCRETE PAVEMENT	
■ CONCRETE SIDEWALK	
■ MILL PAVEMENT	

GRADING LEGEND

--- EXISTING ELEVATION	● TP 000.00 TOP OF PAVEMENT ELEVATION
TC 000.00 PROPOSED TOP OF CURB ELEVATION	TW 000.00 TOP OF WALK ELEVATION
G 000.00 PROPOSED GUTTER ELEVATION	FG 000.00 FINISH GRADE ELEVATION
OG 000.00 OUTSIDE GRADE ELEVATION	T/WALL 000.00 TOP OF WALL ELEVATION
11.30 --- EXISTING CONTOURS	ME 000.00 MATCH EXISTING ELEVATION
--- PROPOSED CONTOURS	--- 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. 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 SLOPES. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE PATTERNS WITH ALL NECESSARY PAVEMENT RE-GRADES.
 - ALL HANDICAP RAMPS AND ADA ACCESSIBLE ROUTES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF MDT DETAIL R-28 "SIDEWALK RAMP AND DETECTABLE WARNING DETAILS".
 - CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORM WATER RUNOFF DURING CONSTRUCTION OPERATIONS. OF PARTICULAR CONCERN WILL BE THE TIME PERIOD AFTER THE SITE HAS BEEN STRIPPED AND NOT YET RESTORED, BUILT UPON, OR PAVED. CONTRACTOR MUST INSTALL OR CONSTRUCT APPROPRIATE TEMPORARY MEASURES TO PROTECT ADJACENT PROPERTIES.

RESTORATION NOTE
RESTORE ALL NON-PAVED AREAS WITH 3" OF CLEAN TOPSOIL AND SOO PER SPEC SECTION 2920. PEG SOO IN PLACE ON SLOPES IN EXCESS OF 10 HORIZONTAL TO 1 VERTICAL USING WOODEN PEGS A MINIMUM OF 12" LONG. WATER SOO ON A REGULAR BASIS AS INDICATED IN THE SPECIFICATIONS.



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Bidding and Permits: 31 July 2023

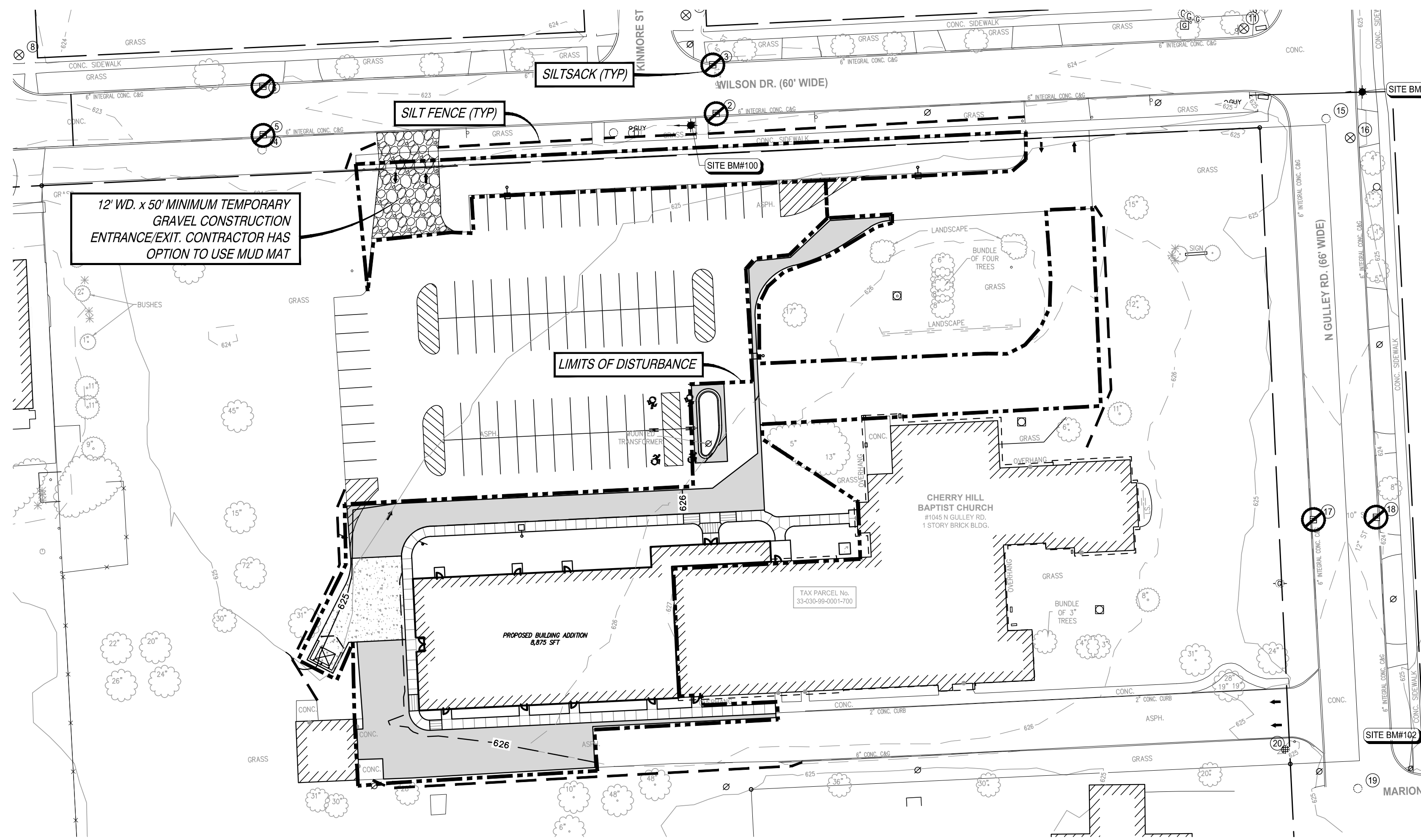


Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

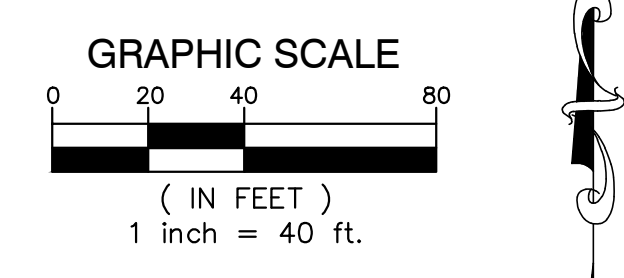
Project No. 3221

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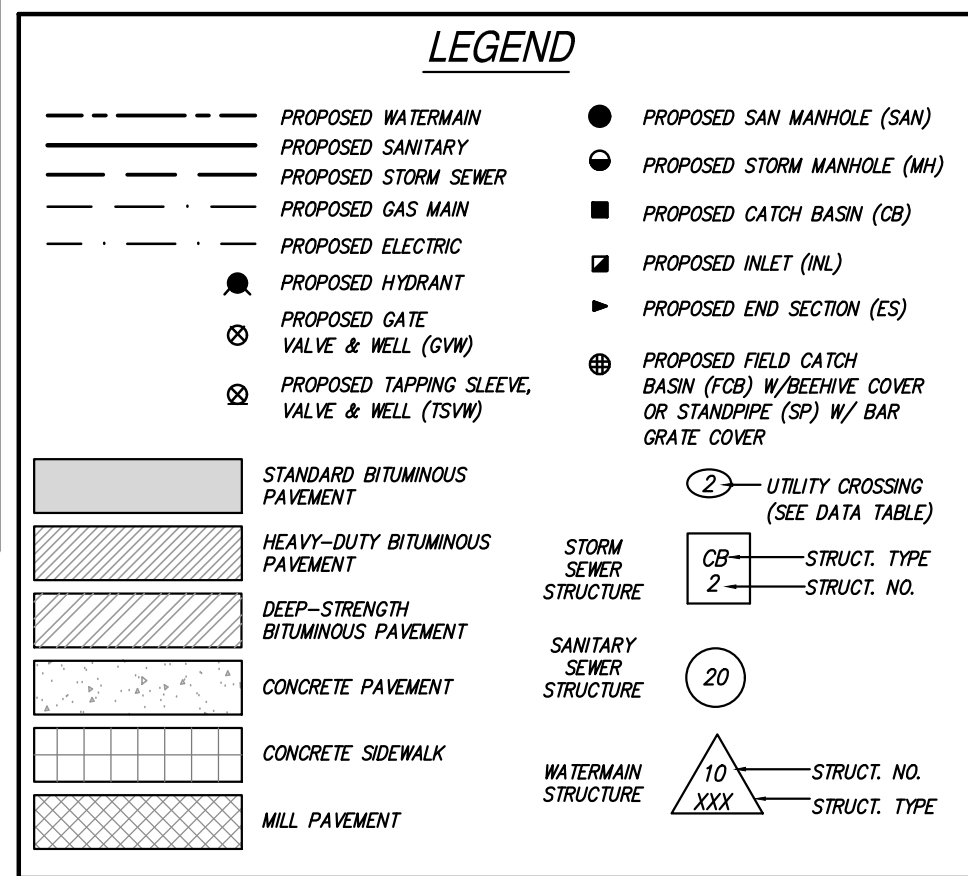
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OWNER
 Crestwood School District
 27235 Joy Road
 Dearborn Heights, MI 48301
 PHONE: (313) 278-0905



GENERAL NOTES:
 G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
 G2. COMPOSITE PLAN ISSUED FOR REFERENCE ONLY.
 G3. REFER TO SHEETS A2.11 AND A2.12 FOR FURTHER INFORMATION.



SOIL EROSION/SEDIMENTATION CONTROL CONSTRUCTION SEQUENCE

- INSTALL SILT FENCE AROUND DEFINED PERIMETER AS SHOWN, INSTALL TREE PROTECTION AND CONSTRUCT TEMPORARY CONSTRUCTION ACCESS.
- CLEAR, GRUB AND STRIP TOPSOIL IN AREAS OF EARTH DISRUPTION.
- COMPLETE LAND BALANCING OPERATIONS.
- INSTALL UNDERGROUND UTILITIES AND PLACE INLET FILTERS WHERE INDICATED.
- PERFORM PAVING OPERATIONS, FINE GRADING, LANDSCAPING.
- EROSION CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL THE CITY AND/OR COUNTY GRANTS ITS APPROVAL. INLET FILTERS SHALL BE PERIODICALLY INSPECTED AND CLEANED/REPLACED AS NECESSARY.

ALL EROSION CONTROL MEASURES SHALL BE INSTALLED APPROXIMATELY ACCORDING TO THE FOLLOWING SEQUENCE OF CONSTRUCTION.
 PROJECT COMMENCEMENT ON OR ABOUT OCTOBER 2023.

SCHEDULE

ITEM	DESCRIPTION	ESTIMATED DURATION
A.	INSTALL SILT FENCE AS SHOWN ON PLANS.	2-3 WEEKS
B.	STRIP AND STOCKPILE TOPSOIL AND ROUGH GRADE SITE.	4 WEEKS
C.	INSTALL UNDERGROUND UTILITIES.	5 WEEKS
D.	FINE GRADE SITE, PAVE, INSTALL LANDSCAPING AND ESTABLISH VEGETATION.	5 WEEKS
E.	CLEAN PAVEMENTS, WALKS, CURBS AND WATERCOURSES OF ALL ACCUMULATED SEDIMENT IN CONJUNCTION WITH REMOVING ALL TEMPORARY DEVICES.	2 WEEKS

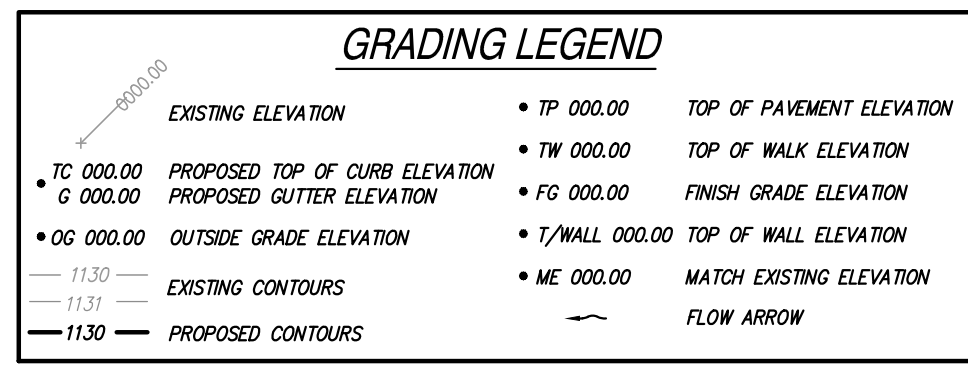
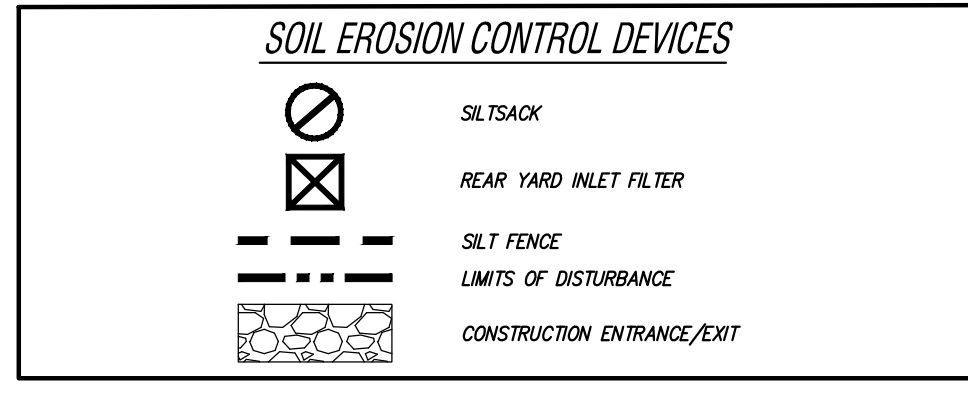
PROJECT COMPLETION ON OR ABOUT OCTOBER 2024.

RESTORATION NOTE

RESTORE ALL NON-PAVED AREAS WITH 3" OF CLEAN TOPSOIL AND 500 PER SPEC SECTION 2920. PER 500 IN PLACE ON SLOPES IN EXCESS OF 10 HORIZONTAL TO 1 VERTICAL USING WOODEN PILES A MINIMUM OF 12" LONG. WATER 500 ON A REGULAR BASIS AS INDICATED IN THE SPECIFICATIONS.

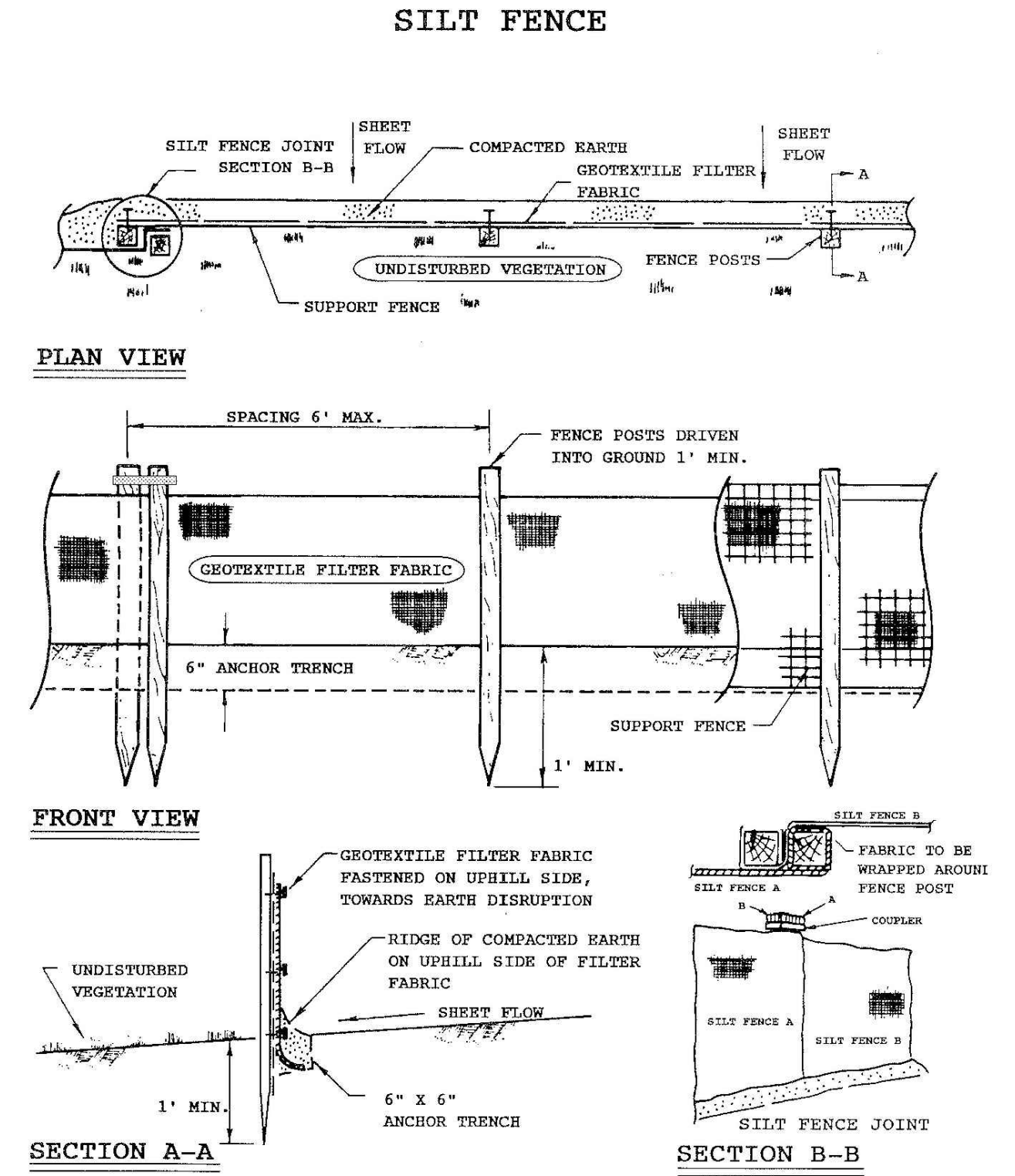
SITE NOTES:
 APPROX. GROSS ACREAGE DISTURBED = 0.99+ ACRES
 DISTANCE TO NEAREST BODY OF WATER = 2.5+ MILES (ROUGE RIVER)
SOIL TYPES:
 AvohbB - AVOCA-BLOUNT SANDY LOAMS, 0-4% SLOPES
 AvoubB - AVOCA-URBAN LAND-BLOUNT COMPLEX, 0-4% SLOPES
 BrmhaB - BREMS LOAMY SAND, 0-4% SLOPES
 Brmuab - BREMS-URBAN LAND COMPLEX, 0-4% SLOPES
 THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED. THE SOIL EROSION AND SEDIMENT CONTROL ACT.

LEGAL DESCRIPTION
 SOURCE: ASK SERVICES
 OWNER: CHERRY HILL BAPTIST CHURCH
 TAX PARCEL ID: 334309-001-700
 ADDRESS: 1045 N GULLEY RD, DEARBORN HEIGHTS, MI 48127
 17A1M B1 B2A C3A N 3/4 OF E 633 FT OF THE N 1/2 OF THE NW 1/4 OF SW 1/4 SEC 17 T2S R10E EXC N 17 FT THEREOF ALSO EXC E 300 FT OF S 165 FT THEREOF 583AC.



SOIL EROSION/SEDIMENTATION CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF DEARBORN HEIGHTS AND/OR COUNTY OF WAYNE.
- DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL DEVICES, AND ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
- EROSION AND ANY SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND PONDS.
- EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.
- CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES AS REQUIRED AND AS DIRECTED ON THESE PLANS. HE SHALL REMOVE TEMPORARY DEVICES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED AND APPROVED BY THE CITY AND/OR COUNTY.
- DEBRIS FROM PROJECT WILL BE LEFT ON THE SITE BY DELIVERY OR CONSTRUCTION VEHICLES THROUGH THE USE OF CLEAN STONE EXITS. SHOULD THE STONE BECOME LESS EFFECTIVE IT WILL BE REPLACED. ALL CONSTRUCTION TRAFFIC WILL USE THE CLEAN STONE EXIT.
- DUST CONTROL WILL BE EXERCISED AT ALL TIMES WITHIN THE PROJECT BY THE CONTRACTORS. SPRINKLING TANK TRUCKS WILL BE AVAILABLE AT ALL TIMES TO BE USED ON HAUL ROUTES OR OTHER PLACES WHERE DUST BECOMES A PROBLEM.
- IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDING AREAS WITH UNWEATHERED SMALL GRAIN STRAW OR HAY. SPREAD UNIFORM AT A RATE OF 1 1/2 TO 2 TONS PER ACRE OR 0.10 POUNDS PER SQUARE FEET. ANCHOR MULCH WITH SPEC TYPE MULCH ANCHORING TOOL.
- ALL MUD, DIRT, AND DEBRIS TRACKED ONTO EXISTING ROADS FROM THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR OR BUILDER. ALL MUD, DIRT, AND DEBRIS TRACKED OR SPILLED ONTO PAVED SURFACES WITHIN THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
- PERMANENT SOIL EROSION CONTROL DEVICES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OR FINAL EARTH CHANGES HAVE BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY EXISTS, TEMPORARY SOIL EROSION CONTROL DEVICES SHALL BE MAINTAINED WITHIN 30 CALENDAR DAYS. ALL TEMPORARY SOIL EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION DEVICES ARE IMPLEMENTED AND/OR ESTABLISHED. ALL PERMANENT SOIL EROSION CONTROL DEVICES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.
- ALL CONTRACTORS ARE TO KEEP EXCAVATED MATERIAL ON SITE. PARTICULAR CARE SHOULD BE TAKEN WHEN WORKING ALONG THE PERIMETERS OF THE SITE. IN NO EVENT SHALL THE WORK AREA EXTEND BEYOND THE LIMITS INDICATED ON THE PLANS.
- THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY THE CONTRACTOR.



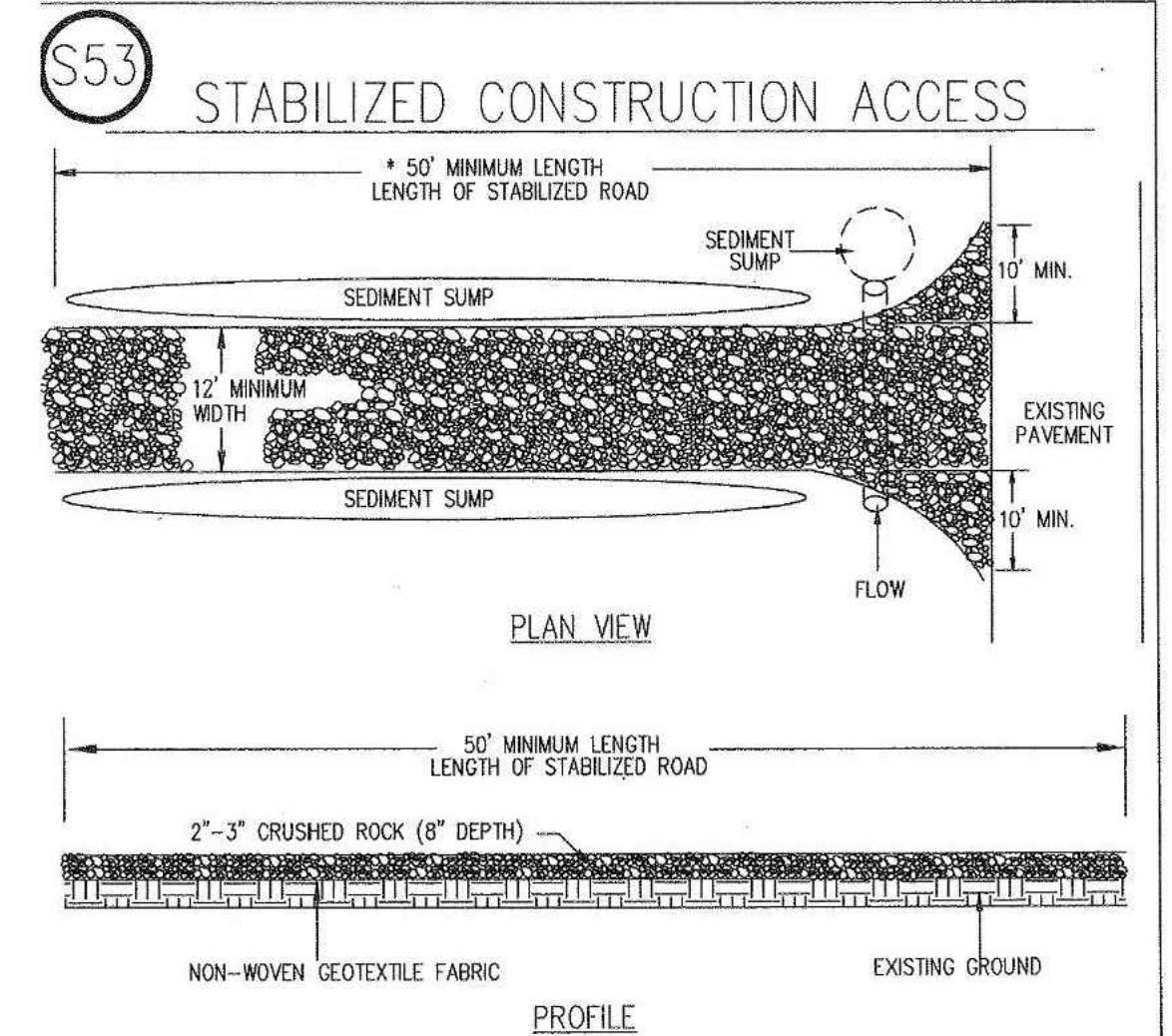
SILTSACK
 Price and Company, Inc. Trademark owned by ACF Environmental

PROTECT CATCH BASINS FROM SEDIMENT & TRASH

SILTSACK traps sand, debris and most silt particles before they reach the sump or pipes. Costly basin and pipe system cleaning are reduced. With SILTSACK, maintenance is easy and site flooding is just a memory. Best of all, SILTSACK can be reused!

- EASY TO INSTALL - EASY TO MAINTAIN
- ECONOMICAL
- FABRICATED TO FIT ANY SIZE OR SHAPE
- PERMEABILITY OF 200 GPM/SF [Hi-Flow style]
- REPLACES ALL ROCK OR GEOTEXTILES
- REUSABLE

SILTSACK WORKS!



NOTES:

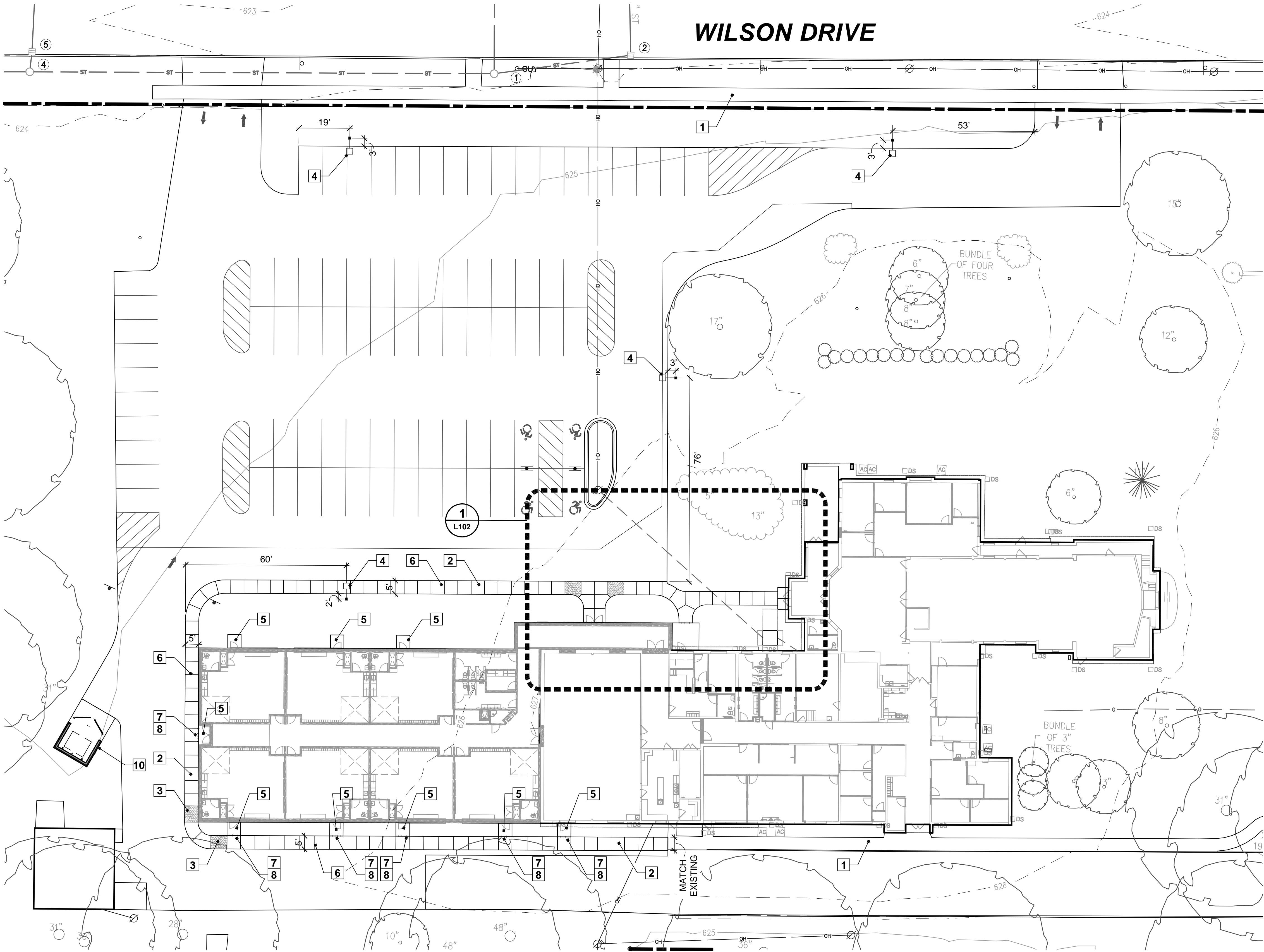
- Establish stabilized construction entrance prior to the initiation of site construction activities.
- Care should be taken to prevent material movement into adjacent wetlands/waterbodies.
- Care should be taken to maintain existing roadside drainage via culvert installation, with sediment sump placed downflow of culvert.



Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

NOTE KEY:

- 1 EXISTING SIDEWALK TO REMAIN
- 2 NEW CONCRETE WALK - SEE CIVIL DRAWINGS
- 3 BF RAMP - SEE CIVIL DWGS.
- 4 SITE LIGHT - SEE SITE ELECTRICAL PLANS
- 5 FROST SLAB - SEE ARCHITECT DRAWINGS
- 6 CONTROL JOINT
- 7 EXPANSION JOINT WITH SEALANT
- 8 12" LENGTH GREASED DOWELS - 3" DIA. - 18" O.C.
- 9 PROPOSED TRANSFORMER PAD - SEE CIVIL DRAWINGS
- 10 DUMPSTER ENCLOSURE - SEE ARCH. DRAWINGS



LANDSCAPE LAYOUT PLAN
SCALE 1" = 20'

GENERAL GRADING NOTES:

- A PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS, TYP.
- B PROVIDE POSITIVE DRAINAGE ON ALL WALKS.
- C DO NOT SCALE PRINTS.
- D CONTRACTOR TO CONTACT CIVIL ENGINEER AND LANDSCAPE ARCHITECT WITH ANY DISCREPANCIES BETWEEN GRADES SHOWN AND ACTUAL GRADES ON SITE. DO NOT MAKE ADJUSTMENTS WITHOUT APPROVAL OF THE CIVIL ENGINEER AND/OR THE LANDSCAPE ARCHITECT.
- E SEE CIVIL ENGINEERING DRAWINGS FOR UTILITY STRUCTURE LOCATIONS.
- F SEE CIVIL ENGINEERING DRAWINGS FOR GRADING AND PAVEMENT ELEVATIONS FOR ALL ROADS, CURBS, BUILDINGS, UTILITIES, ETC.

GENERAL LAYOUT NOTES:

- 1) Install 1/2" expansion joint where concrete walks meet building porches, typical.
- 2) Install 1/2" expansion joint where concrete walks meet curbs, typ.
- 3) Expansion joints in concrete sidewalks:
7' wd. sidewalk - 21" o.c. typ.
5' wd. sidewalk - 20" o.c. typ.
4' wd. sidewalk - 20" o.c. typ.
3' wd. sidewalk - 18" o.c. typ.
- 4) Control joints in concrete sidewalks:
7' wd. sidewalk - 7' x 7' panel
5' wd. sidewalk - 5' x 5' panel
4' wd. sidewalk - 4' x 4' panel
3' wd. sidewalk - 3' x 3' panel
- 5) Do not scale prints.
- 6) All angles assumed to be 90 degrees unless otherwise noted.
- 7) Concrete and Asphalt Walks to meet Porches/ Frost Slabs flush (no steps) unless otherwise noted.
- 8) See Civil Engineering drawings for Layout of all Roads, Curbs, Buildings, Utilities, etc.
- 9) All dimensions to Back of Curb unless otherwise noted.

LIGHT KEY:

- SITE LIGHT POLE - 3' OFF BACK OF CURB,
2' OFF BACK OF SIDEWALK. SEE SITE ELEC. PLANS

NOTE: LANDSCAPE ARCHITECT TO APPROVE ALL STAKED LOCATIONS FOR PATH LIGHTS, UPLIGHTS AND DUPLEX OUTLETS PRIOR TO WIRING AND INSTALLATION



143 cadycentre #79
nortville, mi 48167
deakplanningdesign.com

date
2023-7-31 Bid & Permits

SITE LANDSCAPE PLAN



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

sheet no.

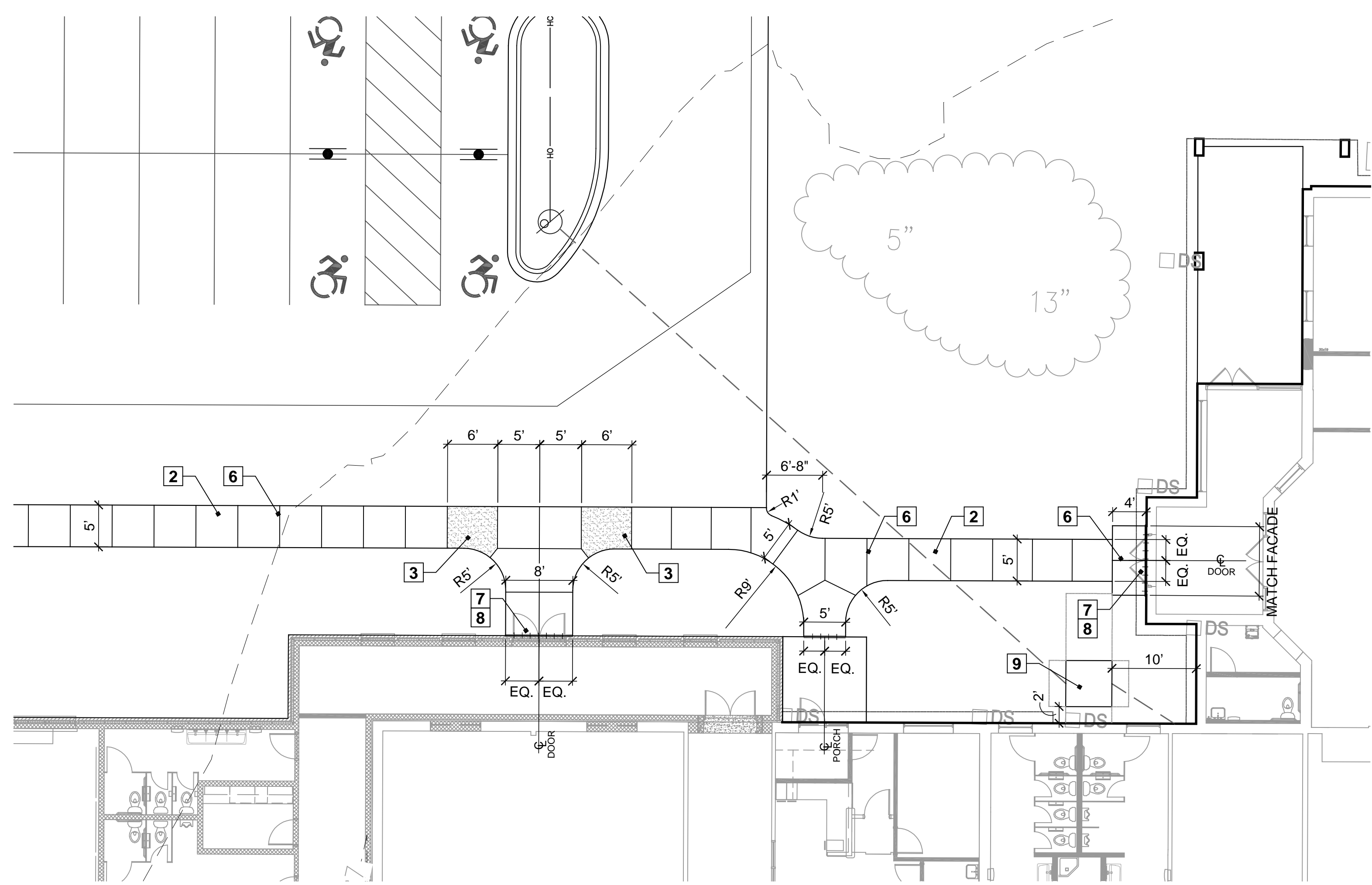
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**CONTRACTOR TO FOLLOW
CONCRETE WALK SCORING
AS SHOWN ON LANDSCAPE
LAYOUT SHEETS**



NOTE KEY: 1

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- 2 NEW CONCRETE WALK - SEE CIVIL DRAWINGS
- 3 BF RAMP - SEE CIVIL DWGS.
- 4 SITE LIGHT - SEE SITE ELECTRICAL PLANS
- 5 FROST SLAB - SEE ARCHITECT DRAWINGS
- 6 CONTROL JOINT
- 7 EXPANSION JOINT WITH SEALANT
- 8 12" LENGTH GREASED DOWELS - 3/4" DIA. - 18" O.C.
- 9 PROPOSED TRANSFORMER PAD - SEE CIVIL DRAWINGS
- 10 DUMPSTER ENCLOSURE - SEE ARCH. DRAWINGS



1 LAYOUT DETAIL
SCALE 1" = 10'

**CONTRACTOR TO FOLLOW
CONCRETE WALK SCORING
AS SHOWN ON LANDSCAPE
LAYOUT SHEETS**

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- SITE LIGHT POLE - 3' OFF BACK OF CURB,
7' OFF BACK OF SIDEWALK. SEE SITE ELEC. PLANS

NOTE: LANDSCAPE ARCHITECT TO APPROVE ALL STAKED LOCATIONS FOR PATH LIGHTS, UPLIGHTS AND DUPLEX OUTLETS PRIOR TO WIRING AND INSTALLATION



PLANNING + DESIGN

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date
2023-7-31 Bid & Permits

SITE LANDSCAPE PLAN



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

100 W. Riv. Street, Suite 200, Troy, MI 48061-1447, MI, USA
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sheet no.

L.102



NOTE KEY:

- 1 EXISTING TREE TO REMAIN
- 2 NEW NON-IRRIGATED SEED LAWN OVER MINIMUM 4" DEPTH TOPSOIL. SEE NOTES BELOW
- 3 RESTORE DISTURBED EXISTING LAWN AREAS WITH NON-IRRIGATED SEED LAWN OVER 1" DEPTH TOPSOIL
- 4 SHOVEL CUT BED EDGE - TYP.
- 5 LIGHT POLE - SEE ELEC. PLANS
- 6 ARCH/TRANSFORMER PAD - SEE ARCH DWGS.
- 7 DUMPSTER ENCLOSURE - SEE ARCH DWGS.
- 8 TEMPORARY TREE PROTECTION FENCE - SEE DETAIL 1, SHEET L.301
- 9 CONTINUOUS MULCH BED - SEE MULCH NOTE THIS SHEET.

GENERAL PLANTING REQ.:

- A THE WORK SHALL CONSIST OF PROVIDING ALL NECESSARY MATERIAL, LABOR, EQUIPMENT, TOOLS, AND SUPERVISION REQUIRED FOR THE COMPLETION AS SHOWN ON THE DRAWING.
- B ALL PLANT MATERIALS SHALL CONFORM TO THE TYPE STATED ON THE PLANT LIST. SIZES SHALL BE THE MINIMUM STATED ON THE PLANT LIST OR LARGER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "A.N. STANDARDS FOR NURSERY STOCK".
- C ALL TREE LOCATIONS SHALL BE STAKED BY LANDSCAPE CONTRACTOR AND ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE PLANT MATERIAL.
- D ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER. TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED. ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT TRUNKS AND SYMMETRICAL CROWNS.
- E ALL MULTI-STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE ACCEPTED.
- F ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING SEASONS.
- G THE CONTRACTOR IS RESPONSIBLE FOR PLANTING THE MATERIALS AT THE CORRECT GRADES AND SPACING. THE PLANTS SHALL BE ORIENTED AS TO GIVE THE BEST APPEARANCE.
- H WHEN THE PLANT HAS BEEN PROPERLY SET, THE PIT SHALL BE BACKFILLED WITH A TOPSOIL AND NATIVE SOIL MIXTURE, GRADUALLY FILLING, PATTING AND SETTLING WITH WATER.
- I ALL PLANT MATERIALS SHALL BE PRUNED AND INJURIES REPAIRED. THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE REMOVAL OF DEAD OR INJURED TWIGS AND TO COMPENSATE FOR THE LOSS OF ROOTS FROM TRANSPORTING. CUTS SHOULD BE FLUSH, LEAVING NO STUBS.
- J THE CONTRACTOR AGREES TO GUARANTEE ALL PLANT MATERIALS FOR THE PERIOD OF ONE YEAR. AT THAT TIME THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT FOR A FINAL INSPECTION. PLANT MATERIAL WITH 25% DIE BACK AS DETERMINED BY THE OWNER'S REPRESENTATIVE SHALL BE REPLACED. THIS GUARANTEE INCLUDES THE FURNISHING OF NEW PLANTS, LABOR AND MATERIALS. THESE NEW PLANTS SHALL ALSO BE GUARANTEED FOR THE PERIOD OF ONE YEAR.
- K TOPSOIL SHALL BE FRABLE, FERTILE, TOPSOIL OF CLAY LOAM CHARACTER CONTAINING AT LEAST 5% BUT NOT MORE THAN 20% BY WEIGHT OF ORGANIC MATTER WITH A PH RANGE FROM 6.0 TO 7.0. SOIL SHALL BE FREE FROM CLAY LUMPS, COARSE SAND, PLANT ROOTS, STICKS AND OTHER FOREIGN MATERIALS, FOREIGN MATERIALS.
- L NO MACHINERY IS TO BE USED WITHIN THE DRIP LINE OF EXISTING TREES. HAND GRADE ALL LAWN AREAS WITHIN DRIP LINE OF EXISTING TREES.
- M IT IS MANDATORY THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM ALL BUILDINGS, WALKS AND PAVED AREAS.
- N ALL PLANTING BEDS SHALL RECEIVE 4" SHREDDED BARK MULCH. SEE SPECIFICATIONS.
- O SOD SEED LAWN AREAS - ALL LAWN AREAS BETWEEN CURBS AND BUILDINGS OR BETWEEN BUILDINGS, DISK SOIL TO 4" DEEP BEFORE TOPSOIL PLACEMENT
- P SOD SHALL BE TWO YEAR OLD "BARONCHERIADELPHI" KENTUCKY BLUE GRASS GROWN IN A SOD NURSERY ON LOAM SOIL.

PLANT MIX

- ALL PLANTING/ PERENNIAL BEDS TO RECEIVE:
- 1 6 CU FT. BALE CANADIAN PEAT
 - 1 40LB BAG DRIMANURE
 - 1 14LB BAG SHERMANS 13-13-13 MULTI PURPOSE FERTILIZER
- PER 100 SQ FT BED AREA.
- HAND TILL INTO SOIL TO A DEPTH OF 12" MINIMUM

MULCH

- MULCH TO BE DOUBLE SHREDDED HARDWOOD BARK MULCH
- NO GROUND WOOD PALLETTE MULCH PERMITTED

TOPSOIL

CONTRACTOR TO TILL OR DISK SUBGRADE TO 4" DEPTH AND INSTALL 4" COMPACTED DEPTH TOPSOIL IN ALL LAWN AREAS - TOPSOIL SHALL BE PROVIDED BY CONTRACTOR

LAWNS

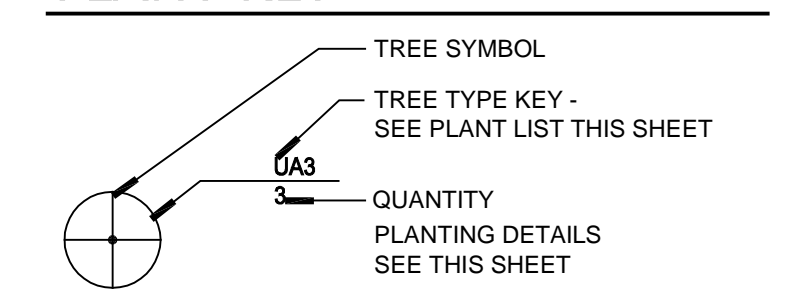
NON-IRRIGATED SEED LAWN - ALL DISTURBED AREAS

LAWN SEED MIX - "NON IRRIGATED"

SEED TYPE	PROPORTION	PURITY	GERMINATION
PERENNIAL RYE	20%	90%	90%
EXTRA FINE COMMON BLUEGRASS	20%	90%	90%
PERN LAWNSOE	60%	90%	90%

NO NOXIOUS WEED SEEDS PERMITTED.
FERTILIZER FOR "NON-IRRIGATED" LAWN 10-10-10

PLANT KEY

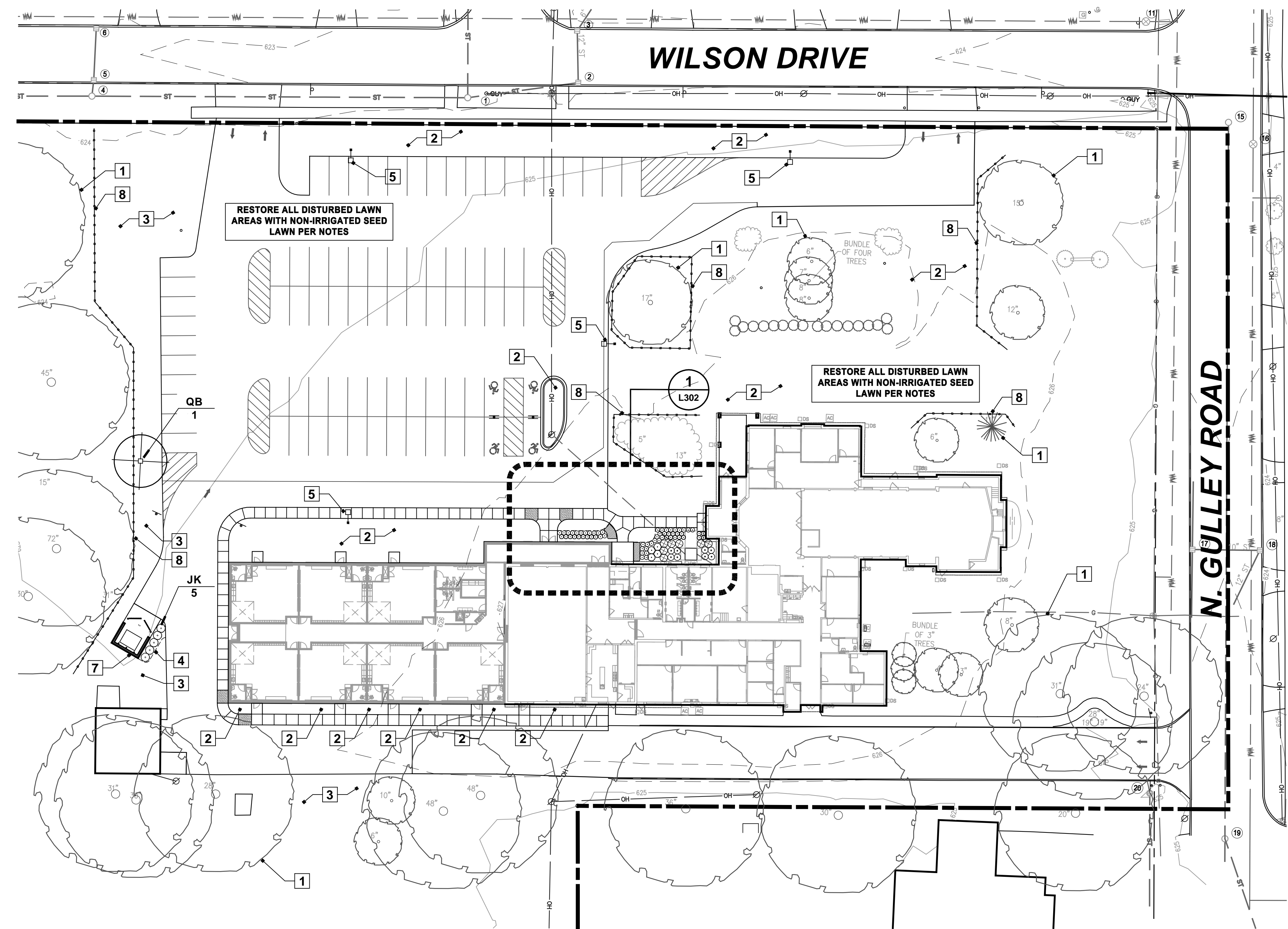


WATERING

CONTRACTOR RESPONSIBLE FOR MONITORING THE WATERING OF ALL PLANTINGS AND NEWLY PLANTED LAWN AREAS FOR ONE YEAR FROM THE START OF THE WARRANTY PERIOD.

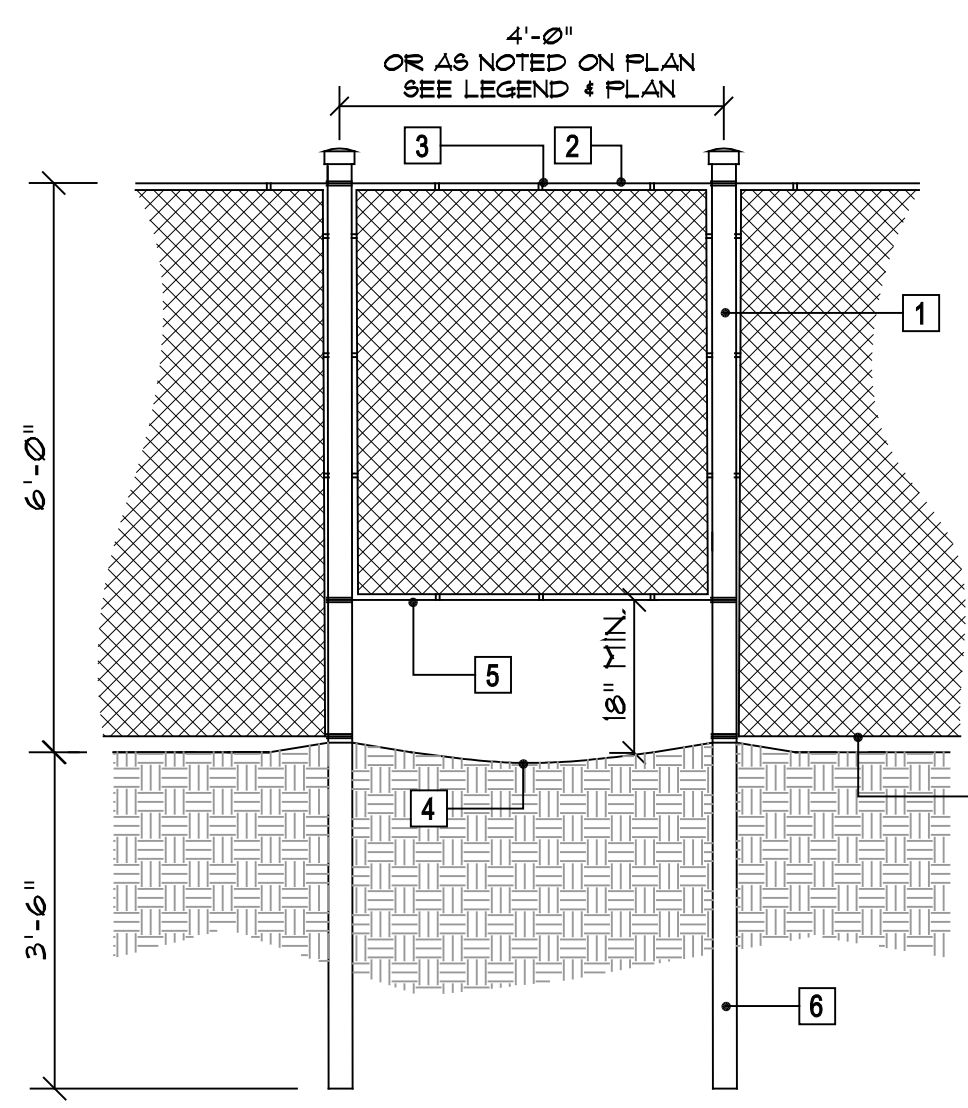
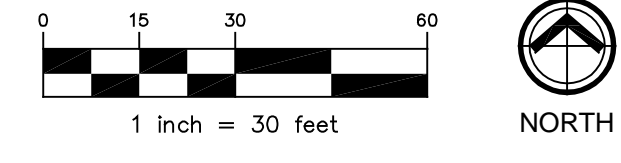
ANY PLANTING THAT PERISHES DUE TO LACK OF WATER, OR OVERWATERING, DOES NOT QUALIFY AS THE REQUIRED REPLACEMENT PLANTING AS STATED IN THE SPECIFICATION, AND SHALL BE REPLACED AT NO COST TO THE OWNER.

NEWLY PLANTED LAWN AREAS THAT PERISH DUE TO LACK OF WATER OR OVERWATERING, DO NOT QUALIFY AS THE REQUIRED REPLACEMENT TO ESTABLISH A HEALTHY FULL DENSE LAWN AS STATED IN THE SPECIFICATION, AND SHALL BE REPLACED AT NO COST TO THE OWNER.



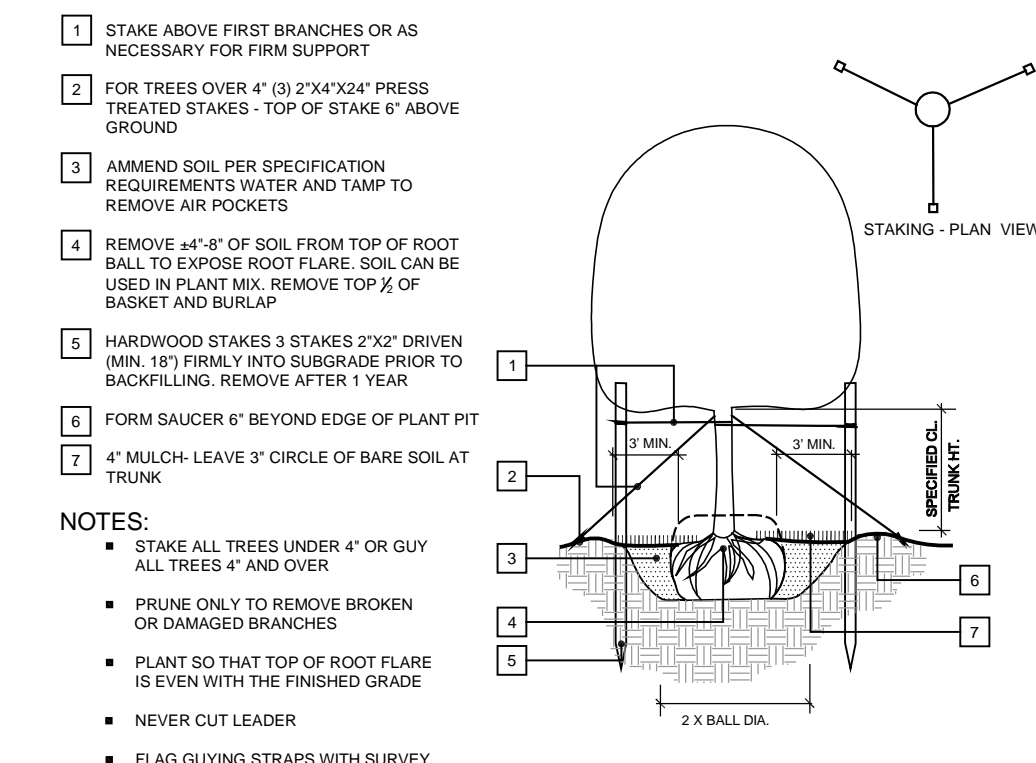
SITE LANDSCAPE PLAN

SCALE 1" = 30'

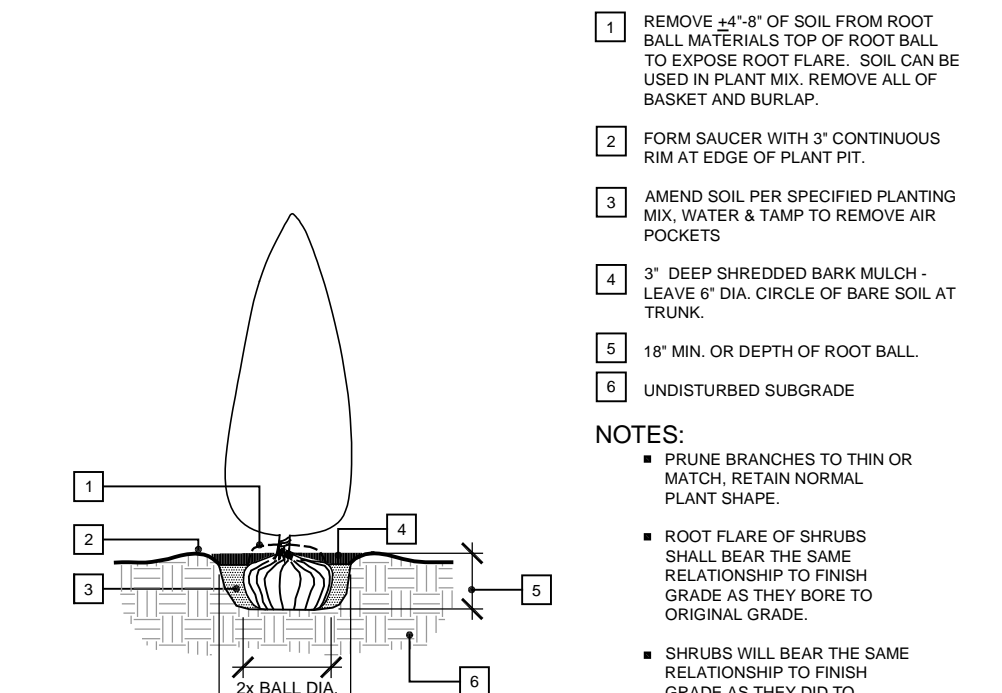


1 TREE PROTECTION CHAIN LINK FENCING WITH WILDLIFE OPENING DETAIL
L.301 NOT TO SCALE

- 1 2.5" CORNER POST 1 7/8" LINE POSTS, WIRE FABRIC - 11 1/2 GAUGE
- 2 TENSION WIRE, TYP.
- 3 TENSION CLIPS, 15" O.C. TYP.
- 4 EXISTING GRADE
- 5 WILDLIFE OPENING (ONE PER FENCE OR 100' O.C. IF ENCLOSED)
- 6 POSTS DIRECTLY INTO SOIL



2 DECIDUOUS TREE PLANTING
L.301 NOT TO SCALE



3 TALL SHRUB PLANTING
L.301 NOT TO SCALE

- 1 STAKE ABOVE FIRST BRANCHES OR AS NECESSARY FOR FIRM SUPPORT
 - 2 FOR TREES OVER 4" (3) 2"x4"x24" PRESS TREATED STAKES - TOP OF STAKE 6" ABOVE GROUND
 - 3 AMENDING SOIL PER SPECIFICATION REQUIREMENTS WATER AND TAMP TO REMOVE AIR POCKETS
 - 4 REMOVE 4"-8" OF SOIL FROM TOP OF ROOT BALL TO EXPOSE ROOT FLARE. SOIL CAN BE USED IN PLANT MIX. REMOVE TOP 1/2 OF BASKET AND BURLAP
 - 5 HARDWOOD STAKES 3 STAKES 2"x3" DRIVEN (MIN. 18") FIRMLY INTO SUBGRADE PRIOR TO BACKFILLING. REMOVE AFTER 1 YEAR
 - 6 FORM SAUCER 6" BEYOND EDGE OF PLANT PIT
 - 7 4" MULCH - LEAVE 3" CIRCLE OF BARE SOIL AT TRUNK
- NOTES:
- STAKE ALL TREES UNDER 4" OR GUY ALL TREES 4" AND OVER
 - PRUNE ONLY TO REMOVE BROKEN OR DAMAGED BRANCHES
 - PLANT SO THAT TOP OF ROOT FLARE IS EVEN WITH THE FINISHED GRADE
 - NEVER CUT LEADER
 - FLAG GUYING STRAPS WITH SURVEY OR TAPE "ARBORITE" NYLON STRAPS

- 1 REMOVE 4"-8" OF SOIL FROM ROOT BALL MATERIALS TOP OF ROOT BALL TO EXPOSE ROOT FLARE. SOIL CAN BE USED IN PLANT MIX. REMOVE ALL OF BASKET AND BURLAP.
 - 2 FORM SAUCER WITH 3" CONTINUOUS RIM AT EDGE OF PLANT PIT.
 - 3 AMEND SOIL PER SPECIFIED PLANTING MIX, WATER & TAMP TO REMOVE AIR POCKETS
 - 4 3" DEEP SHREDDED BARK MULCH - LEAVE 6" DIA. CIRCLE OF BARE SOIL AT TRUNK.
 - 5 12" MIN. OR DEPTH OF ROOT BALL.
 - 6 UNDISTURBED SUBGRADE
- NOTES:
- PRUNE BRANCHES TO THIN OR MATCH RETAIN NORMAL PLANT SHAPE.
 - ROOT FLARE OF SHRUBS SHALL BEAT THE SAME RELATIONSHIP TO FINISH GRADE AS THEY BORE TO ORIGINAL GRADE.
 - SHRUBS WILL BEAT THE SAME RELATIONSHIP TO FINISH GRADE AS THEY DID ORIGINAL GRADE
 - REMOVE ALL FIBER, PLASTIC OR METAL CONTAINERS.



PLANNING + DESIGN

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northville, mi 48167

deakplanningdesign.com

date

2023-7-31

Bid & Permits

SITE LANDSCAPE PLAN



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

100 W. Riverview Blvd., Suite 100, Troy, MI 48064-1144, USA
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sheet no.

L.301

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- PER 100 SQ FT BED AREA.**
- HAND TILL INTO SOIL TO A DEPTH OF 12" MINIMUM**

MULCH

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- NO GROUND WOOD PALLETTE MULCH PERMITTED**

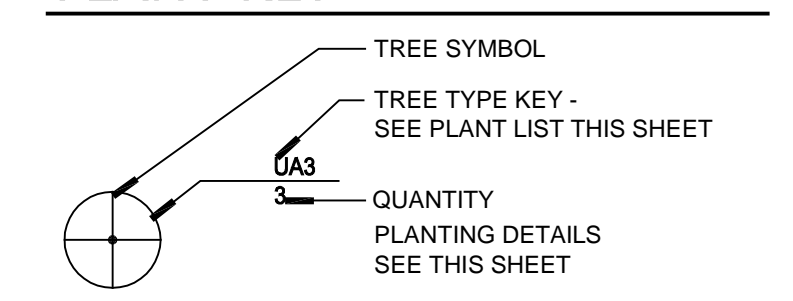
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LAWNS

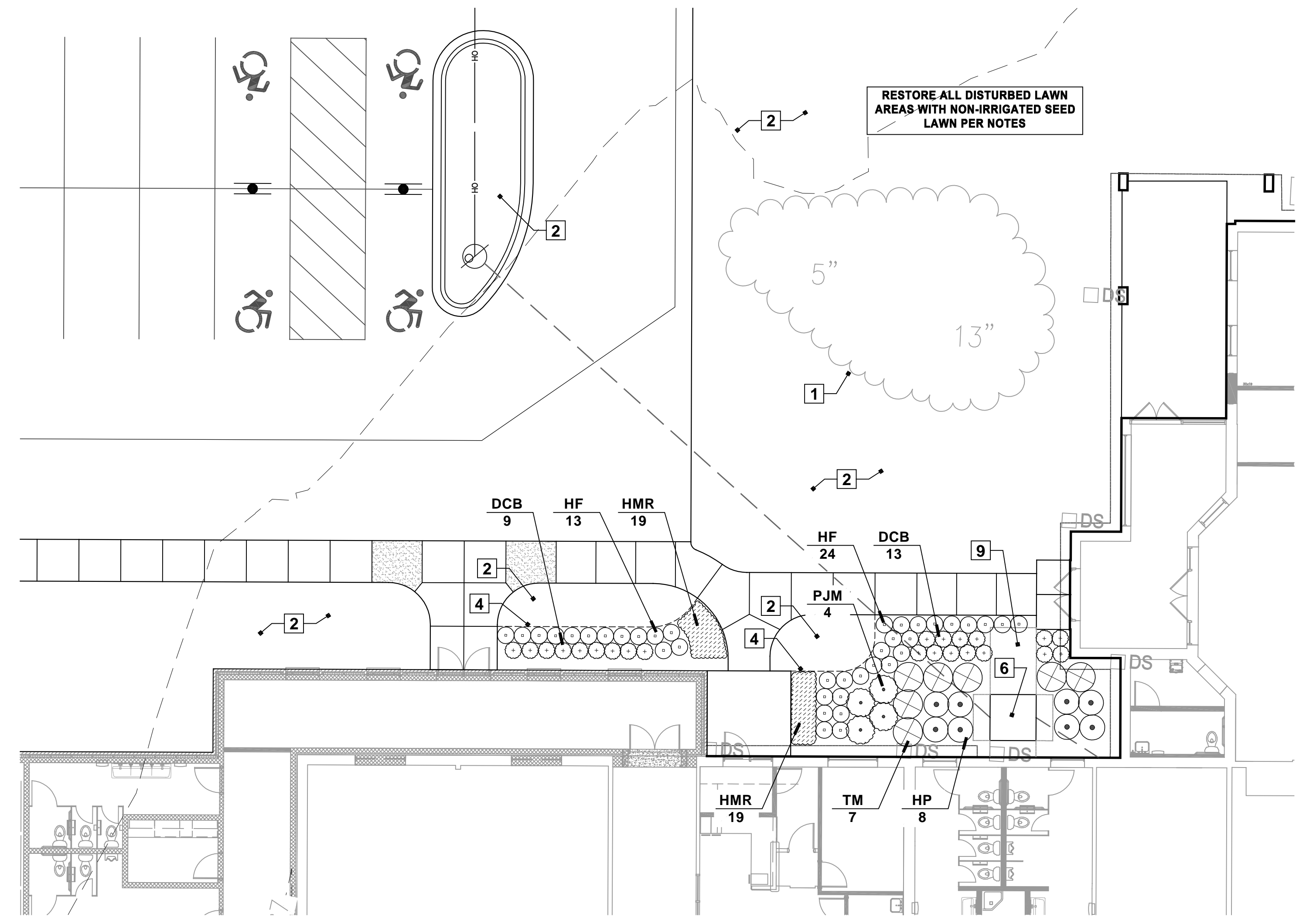
- NON-IRRIGATED SEED LAWN - ALL DISTURBED AREAS**
- LAWN SEED MIX - "NON IRRIGATED"**
- | SEED TYPE | PROPORTION | PURITY | GERMINATION |
|-------------------------------|------------|--------|-------------|
| PENFINE PERENNIAL RYE | 20% | 90% | 90% |
| KENTUCKY 2ND COMMON BLUEGRASS | 20% | 90% | 90% |
| PERN LAWN FESCUE | 20% | 90% | 90% |
- NO NOXIOUS WEED SEEDS PERMITTED.
FERTILIZER FOR "NON-IRRIGATED" LAWN 10-10-10

PLANT KEY

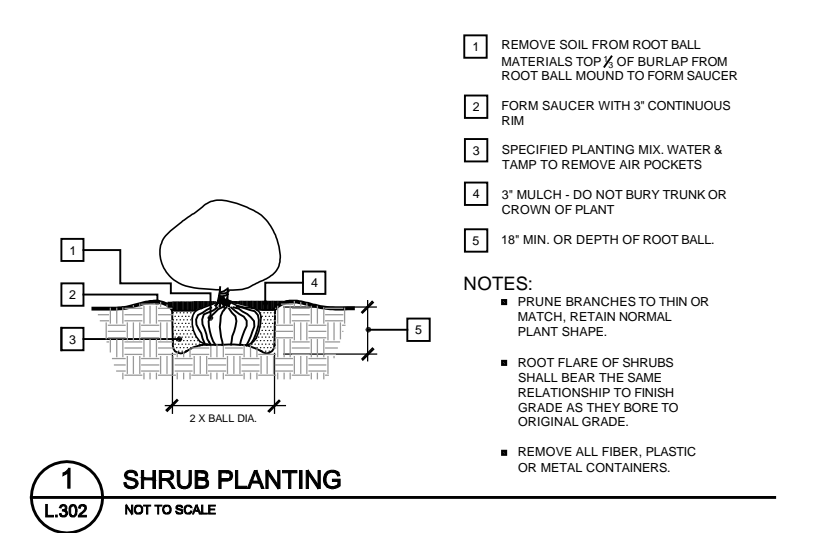
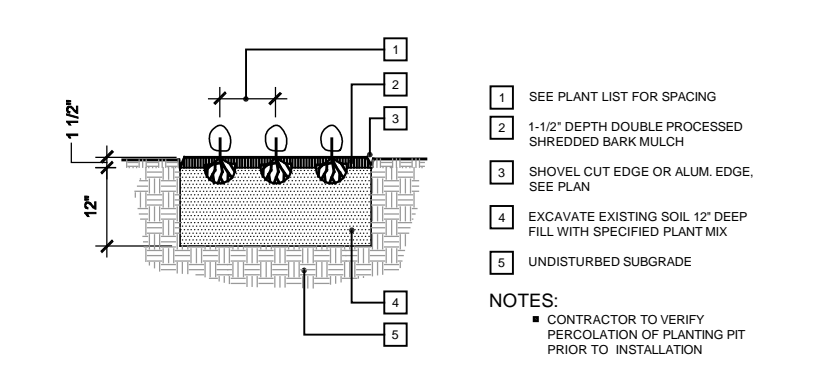


WATERING

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1 PLANTING DETAIL
L301 SCALE 1" = 10'



PLANT LIST

QUAN.	KEY	COMMON/ BOTANICAL NAME	SIZE	SPEC.	SPACE
1	QB	Swamp White Oak <i>Quercus bicolor</i>	3" cal.	B&B	AS SHOWN
5	JK	Ketter Juniper <i>J. 'Ketterii'</i>	5' Ht.	B&B	AS SHOWN
7	TM	Moon Yew <i>Taxus x.m. 'Moon'</i>	30" Ht.	B&B	AS SHOWN
8	HP	Limelight Prime Hydrangea <i>Hydrangea p. 'Limelight Prime'</i>	3 Gal.	Cont.	AS SHOWN
4	PJM	PJM Rhododendron <i>Rhododendron 'PJM'</i>	5 Gal.	Cont.	AS SHOWN
22	DCB	Yuki Cherry Blossom <i>Deutzia x 'Yuki Cheery Blossom'</i>	1 Gal.	Cont.	14" O.C.
37	HF	Francee Hosta <i>Hosta 'Francee'</i>	1 gal.	Cont.	24" O.C.
38	HMR	Midnight Rose Coral Bells <i>Heuchera 'Midnight Rose'</i>	1 Gal.	Cont.	14" O.C.

NOTE: CONTRACTOR TO VERIFY ALL PLANT QUANTITIES ON SITE LANDSCAPE PLAN SHEETS.



PLANNING + DESIGN

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nortville, mi 48167

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date

2023-7-31

Bid & Permits

SITE LANDSCAPE PLAN



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

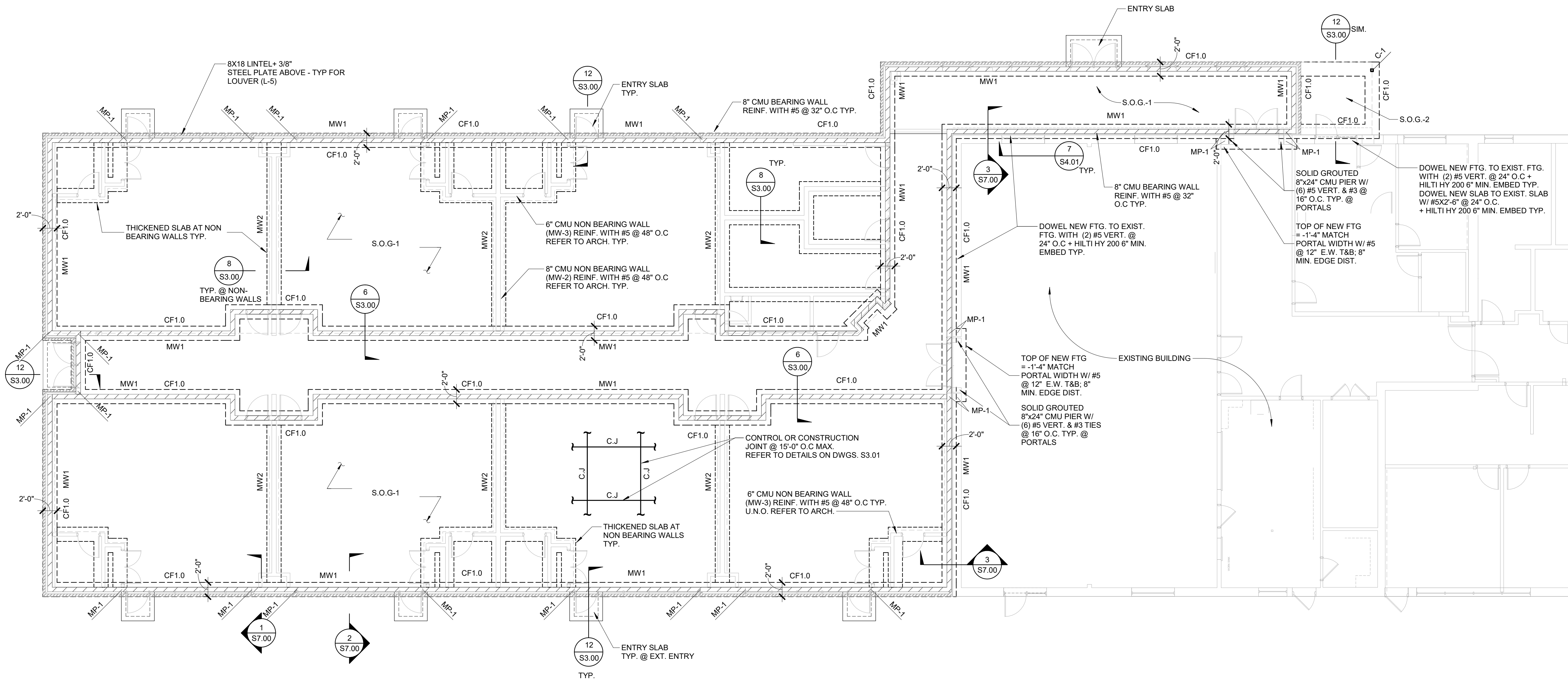
Project No. 3221

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sheet no.

L.302





FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION NOTES:

- REFERENCE FINISHED FLOOR ELEVATION = 100'-0"
- TOP OF FOOTING ELEVATION = -1'-4" UNLESS NOTED THUS [XX'-XX"]
- FOOTINGS ARE DESIGNED TO BEAR ON FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL WITH A PRESUMPTIVE MINIMUM NET ALLOWABLE BEARING CAPACITY OF 3,000 PSF. REFER TO GEOTECH. REPORT FOR SITE PREPARATION, OVEREXCAVATION OF EXIST. FILL REQ., AND REPLACEMENT WITH ENGINEERED FILL.
- CONTRACTOR SHALL COORDINATE ALL MASONRY DOWEL SIZES AND SPACING TO BE CAST INTO CONCRETE WITH MASONRY REINFORCING SHOP DRAWINGS.
- REFER TO CIVIL/SITE DRAWINGS FOR PROPOSED GRADE ELEVATIONS AROUND THE PERIMETER OF THE BUILDING.
- REFER TO MEP DRAWINGS FOR ALL PIPE AND CONDUIT SIZES AND LOCATIONS PASSING THROUGH AND/OR UNDER FOUNDATIONS.
- VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

DESIGNATIONS:

- CF1.0: 2'-0" WIDE x 3'-6" (MIN.) DEPTH WALL FOOTING REINF. W/ (3) #5 CONT. TOP & BOT.
- C-1: HS4X4X1/4 W/ 12"X12"X3/4 BASE PLATE AND (4) 3/4" ANCHORS 8" EMBED.; 5" MIN. PROJECTION
- MW-1: 8" CMU WALL WITH #5 @ 32" O.C. PROVIDE BOND BEAMS WITH (2)#5 HORIZONTAL BARS AT TOP OF WALL, BEAM/JOIST BEARING ELEV., AND BOT. OF WINDOW OPENING, PROVIDE (3) #5 VERTICAL BARS, ONE PER CELL, AT CORNERS AND (2) #5 VERTICAL BARS, ONE PER CELL, AT OPENINGS IN WALLS, ENDS OF WALLS AND BELOW BEAM/JOIST POCKETS.
- MW-2: 8" CMU WALL WITH #5 @ 48" O.C. PROVIDE BOND BEAMS WITH (2)#5 HORIZONTAL BARS AT TOP OF WALL AND BOT. OF WINDOW OPENING, PROVIDE (3) #5 VERTICAL BARS, ONE PER CELL, AT CORNERS AND (2) #5 VERTICAL BARS, ONE PER CELL, AT OPENINGS IN WALLS, AND ENDS OF WALLS (TYP. FOR 8" NON-BEARING CMU WALLS; REFER TO ARCH.)
- MW-3: 6" CMU WALL WITH #5 @ 48" O.C. PROVIDE BOND BEAMS WITH (2)#5 HORIZONTAL BARS AT TOP OF WALL, PROVIDE (3) #5 VERTICAL BARS, ONE PER CELL, AT CORNERS AND (2) #5 VERTICAL BARS, ONE PER CELL, AT OPENINGS IN WALLS, AND ENDS OF WALLS (TYP. FOR 6" NON-BEARING CMU WALLS; REFER TO ARCH.)
- MP-1: 8"x16" MASONRY PIER REINF. W/ (4) #5 FULL HEIGHT VERTICAL & #3 TIES @ 16" O.C.
- S.O.G-1: 5" SLAB ON GRADE WITH 6x6-W2.9xW2.9 W.W.F. PLACED @ 2" FROM TOP OF SLAB ON VAPOR RETARDER ON MIN. 4" COMPACTED GRANULAR FILL ON PREPARED SUB-GRADE (TYP. UNO)
- S.O.G-2: 6" SLAB ON GRADE WITH #5 @ 12" O.C. EACH WAY TOP AND BOTTOM. PLACED @ 2" FROM TOP AND BOTTOM OF SLAB ON VAPOR RETARDER ON MIN. 4" COMPACTED GRANULAR FILL ON PREPARED SUB-GRADE (TYP. UNO)

REFERENCE DRAWINGS:

- S0.01 & S0.02 GENERAL STRUCTURAL NOTES
- S0.03 SPECIAL INSPECTION SCHEDULES
- S3.00 TYPICAL CONCRETE DETAILS
- S4.00 TYPICAL MASONRY DETAILS
- S4.01 TYPICAL MASONRY DETAILS
- S6.00 TYPICAL STEEL DETAILS
- S7.00 SECTIONS & DETAILS
- S7.01 SECTIONS & DETAILS

IMEG 3353 W. TWELVE MILE SUITE 200 FARMINGTON HILLS, MI 48331 P: 248.344.2800 F: 248.344.1650
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0 1 2 3
REF. SCALE IN INCHES PROJECT #22009942.00

Bidding and Permits	31 July 2023
Owner Review	17 July 2023
Design Development	08 May 2023

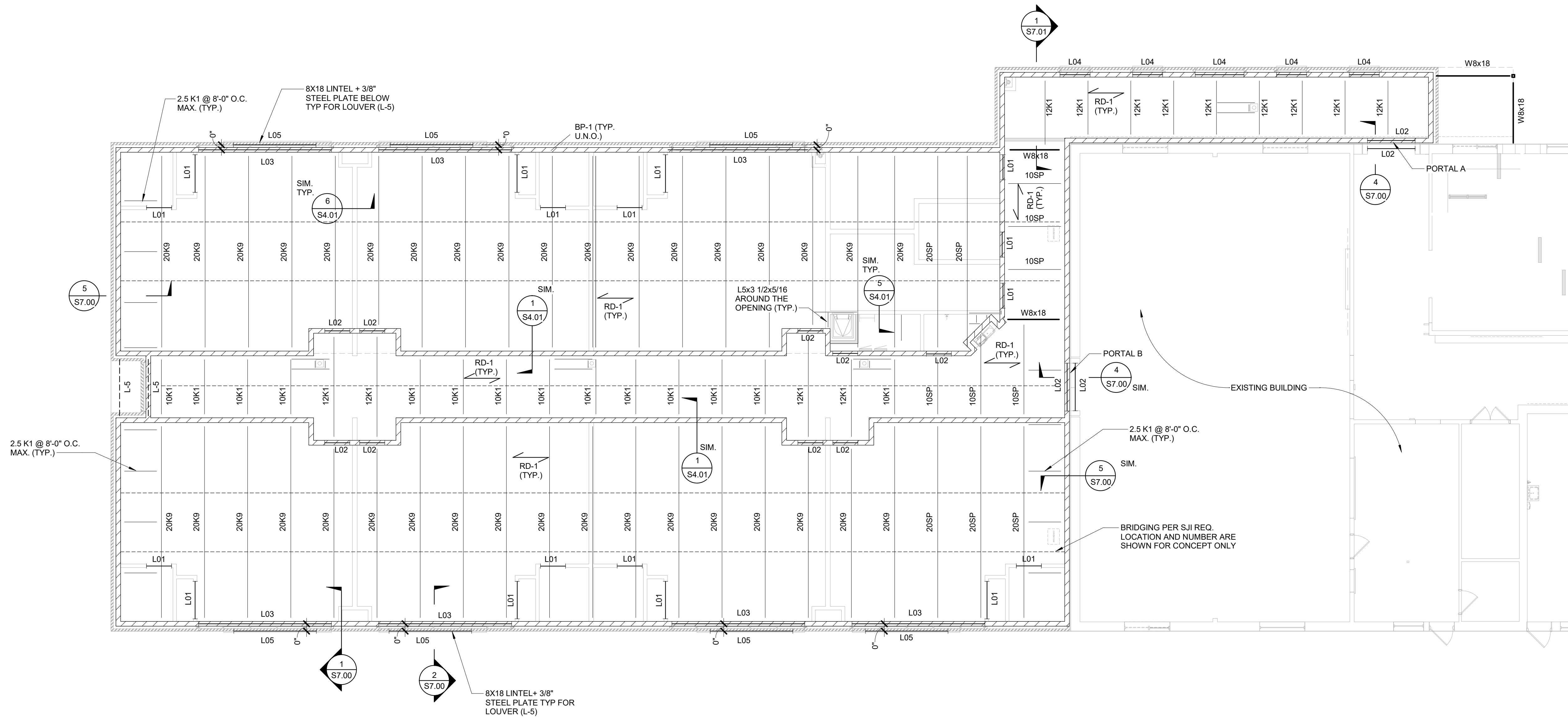
FOUNDATION PLAN



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 4321

S2.10



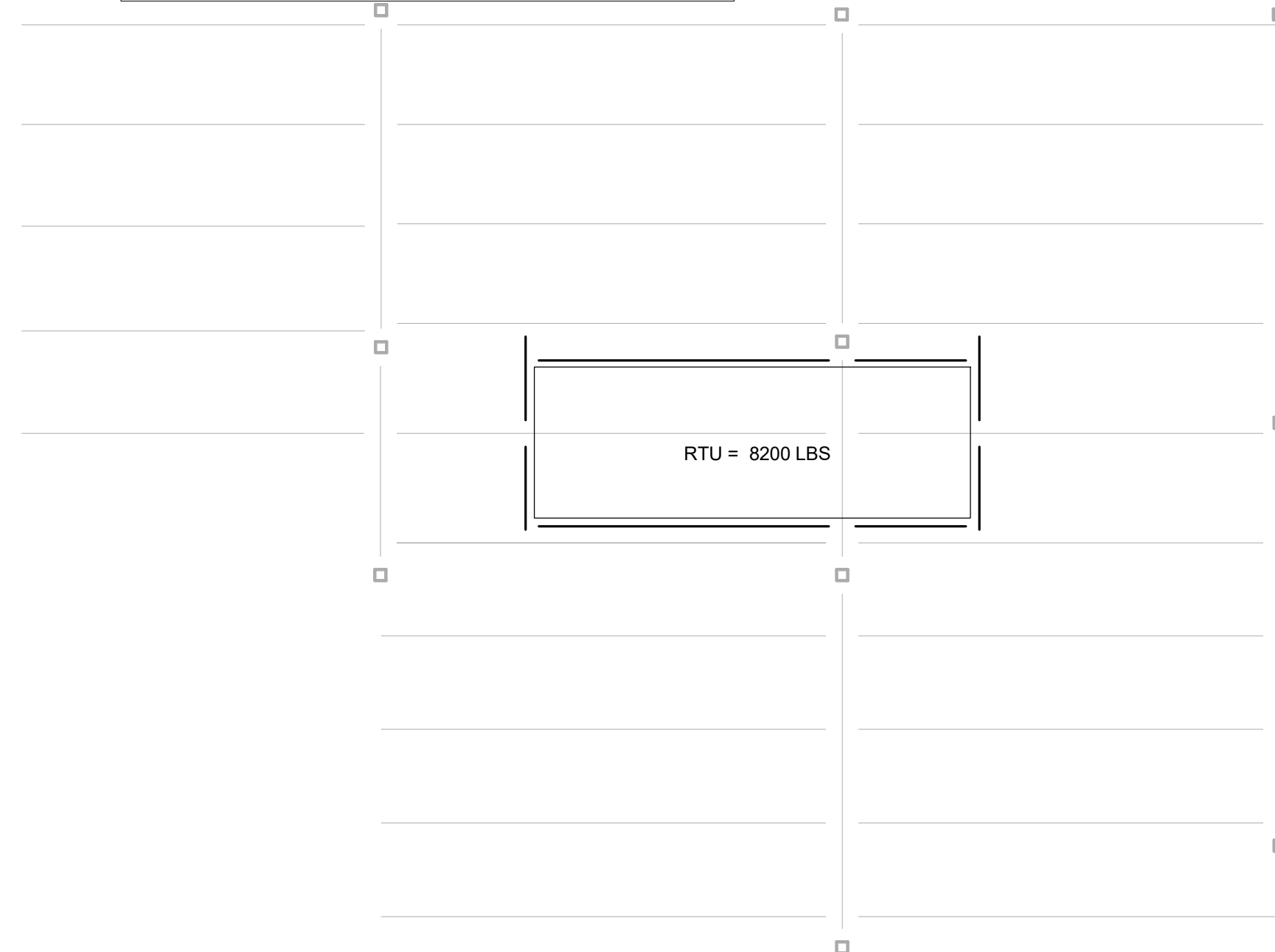
1 ROOF FRAMING PLAN
1/8" = 1'-0"

ROOF FRAMING NOTES:

- TOP OF STEEL REFERENCE ELEVATION (DECK BEARING ELEVATION) = X'-X" UNLESS NOTED THUS [X'-XX"] OR REFER TO PLAN.
- DESIGNATIONS:**
RD-1: 1 1/2"-20 GAGE MIN. TYPE "B" WIDE RIB GALVANIZED STEEL ROOF DECK (MIN. 3 SPAN CONT.) REFER TO DRAWING S6.00 FOR ATTACHMENT DETAILS.
MINIMUM DECK SECTION PROPERTIES FOR DECK BASED ON F_y = 50 KSI (VULCRAFT):
DESIGN THICKNESS = 0.0358" (UNCOATED)
I (POSITIVE) = 0.201 IN⁴/FT.
I (NEGATIVE) = 0.222 IN⁴/FT.
S (POSITIVE) = 0.234 IN³/FT.
S (NEGATIVE) = 0.247 IN³/FT.

L-x: LINTEL, REFER TO SCHEDULE
BP-1: BEARING PLATE, 7x7x3/8" WITH (2) 1/2" DIA. x 6" LONG HEADED STUDS (TYP. FOR ALL JOISTS/BEAMS U.N.O.)
- ALL JOIST SEATS FOR K-SERIES JOISTS SHALL BE 2 1/2" DEEP, UNLESS NOTED OTHERWISE.
- ALL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF 12 PSF (ASD), IN ADDITION TO OTHER LOAD CASES AND ANY OTHER NON-UNIFORM LOADS INDICATED ON THE DRAWINGS. ALL BRIDGING AND UPLIFT BRIDGING SHALL BE PER SJI REQUIREMENTS.
- COORDINATE SIZES AND LOCATION OF ALL ROOF OPENINGS WITH ARCHITECTURAL AND MEP DRAWINGS.
- FRAMING FOR ALL ROOF DRAINS AND OVERFLOW DRAINS SHALL BE L5x3 1/2x5/16 LLV TYPICAL, ALL SIDES OF SUPPORTED EDGE, UNLESS NOTED OTHERWISE.
- VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- REFERENCE DRAWINGS:**
S0.01 & S0.02 GENERAL STRUCTURAL NOTES
S0.03 SPECIAL INSPECTION SCHEDULES
S3.00 TYPICAL CONCRETE DETAILS
S4.00 TYPICAL MASONRY DETAILS
S4.01 TYPICAL STEEL DETAILS
S6.00 TYPICAL STEEL DETAILS
S7.00 SECTIONS & DETAILS
S7.01 SECTIONS & DETAILS

NOTE:
EXISTING JOISTS/FRAMINGS SIZE TO BE DETERMINED IN FIELD.
JOISTS/BEAMS REINFORCEMENT ARE REQUIRED. CONTACT EOR
FOR THE REQUIRED REINF. BEFORE UNIT INSTALLATION.



3 PARTIAL ROOF PLAN
3/16" = 1'-0"

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Bidding and Permits	31 July 2023
Owner Review	17 July 2023
Design Development	08 May 2023

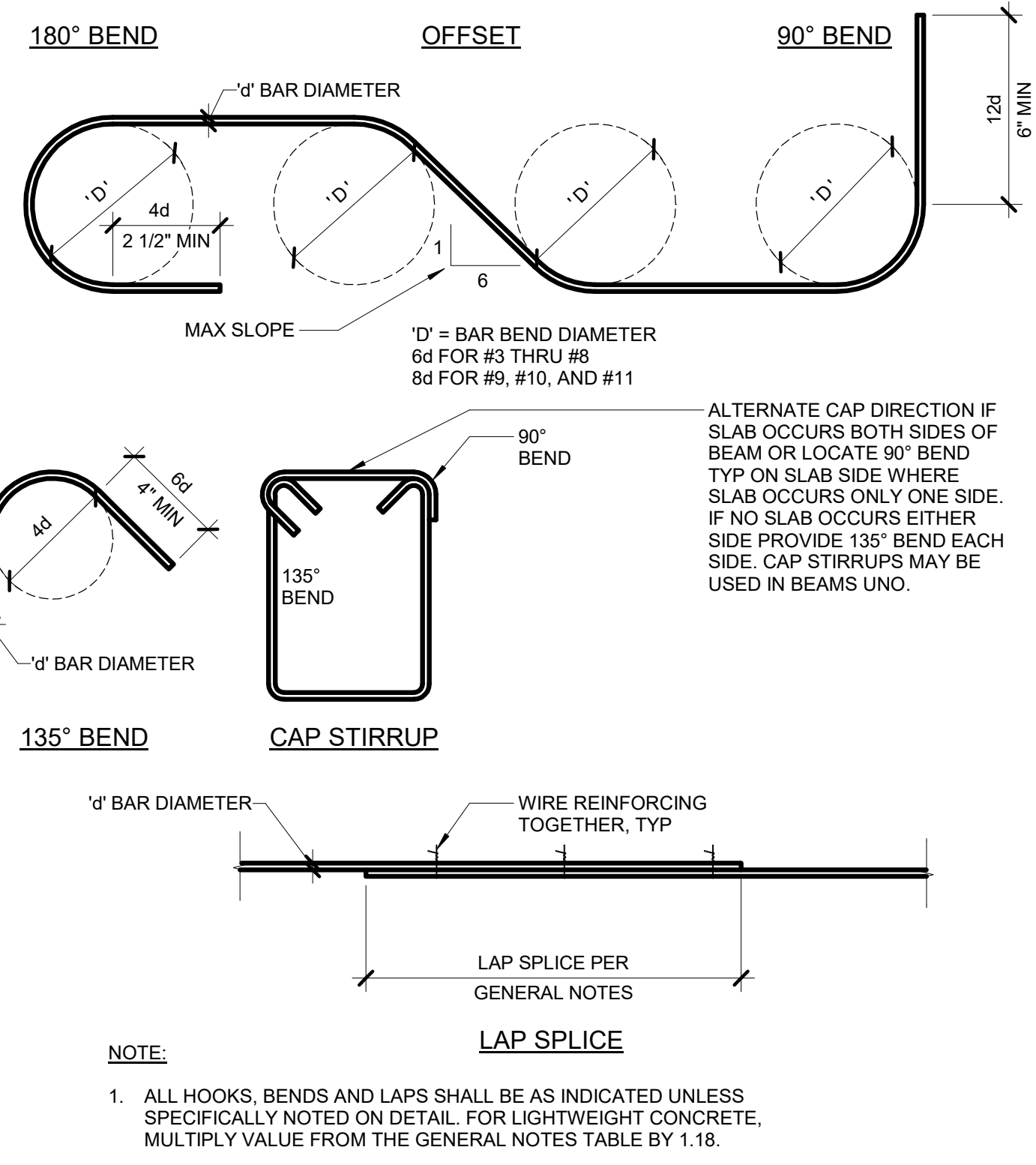
ROOF FRAMING PLAN



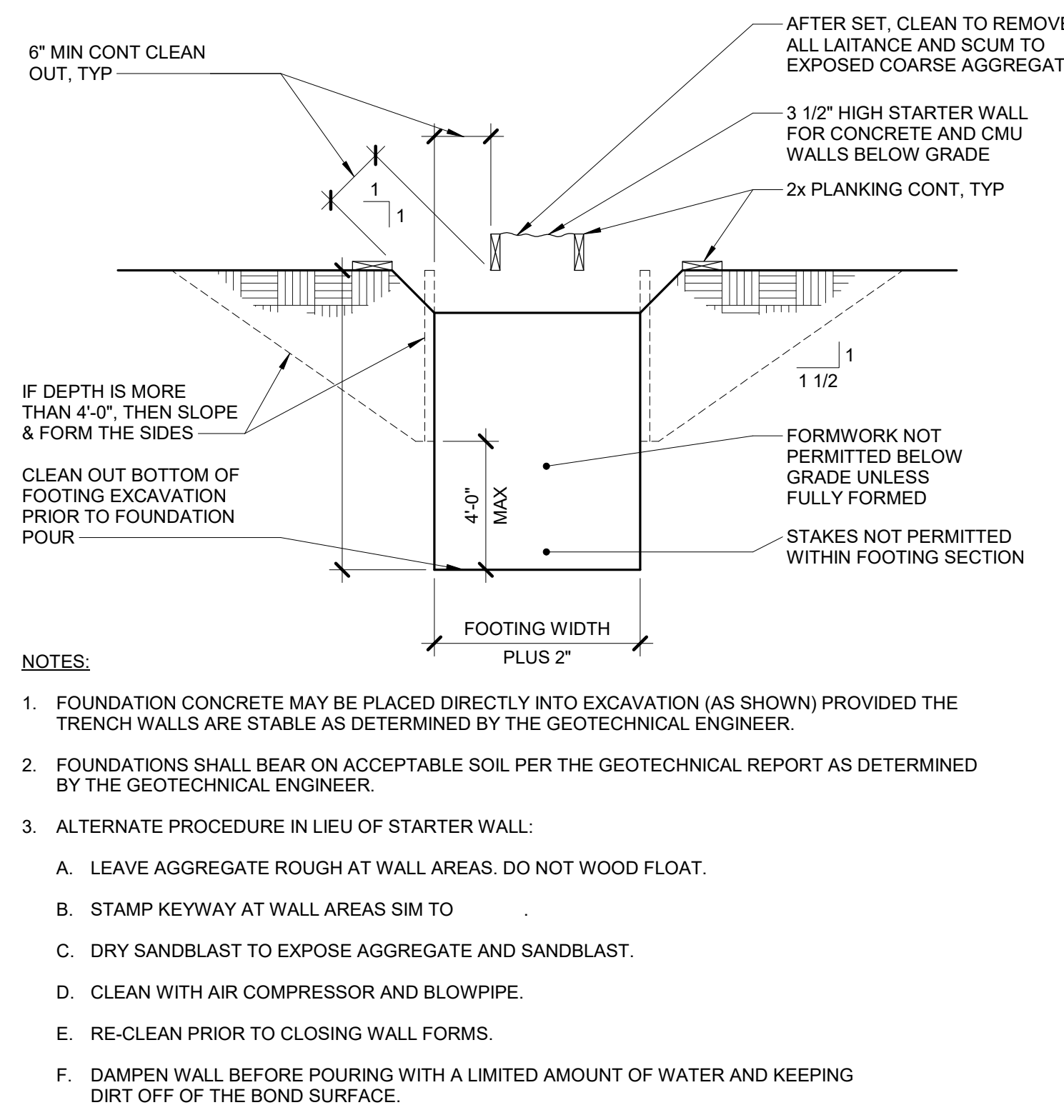
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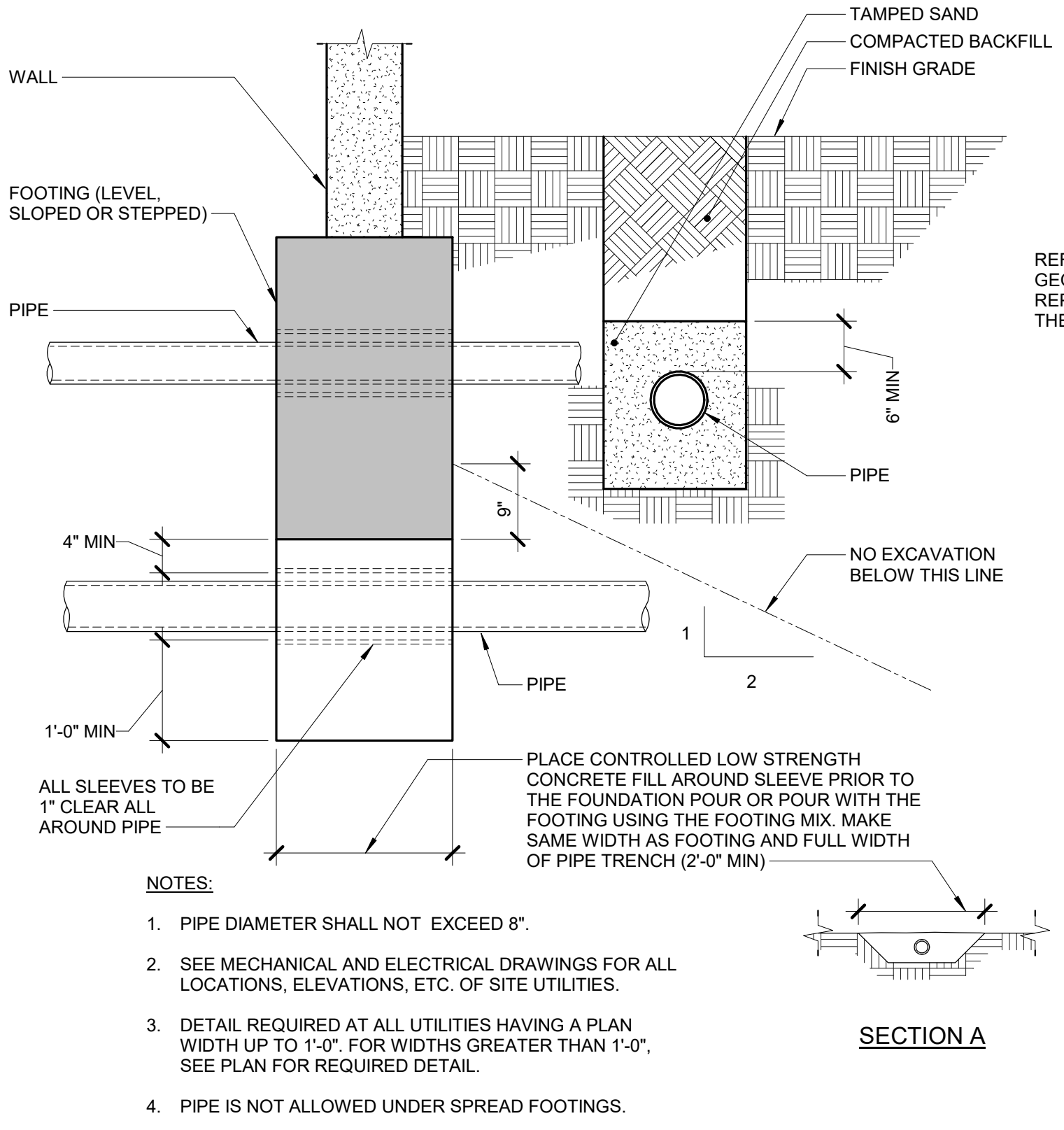
S2.11



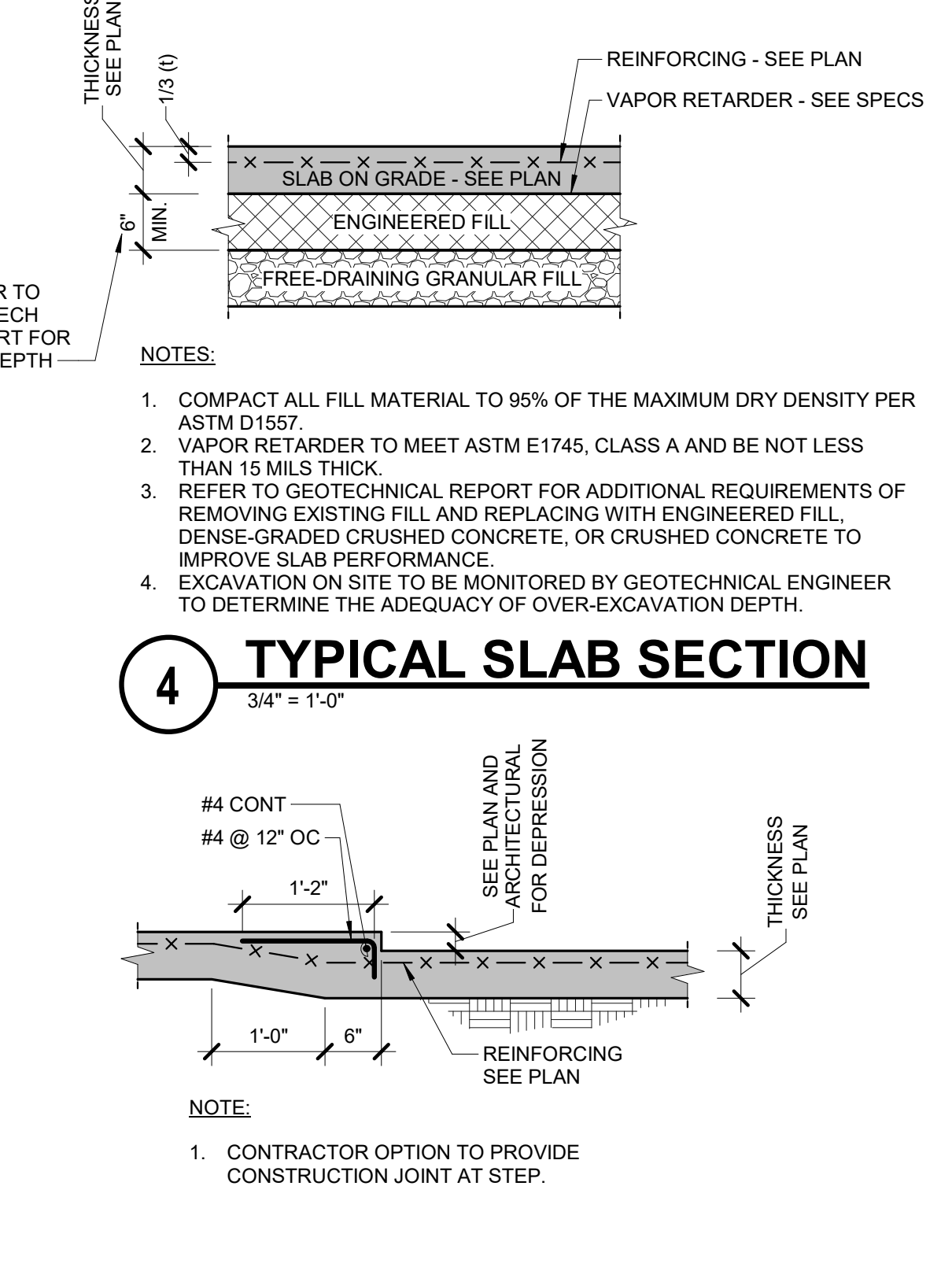
1 TYPICAL REINFORCING DETAILS
3/4" = 1'-0"



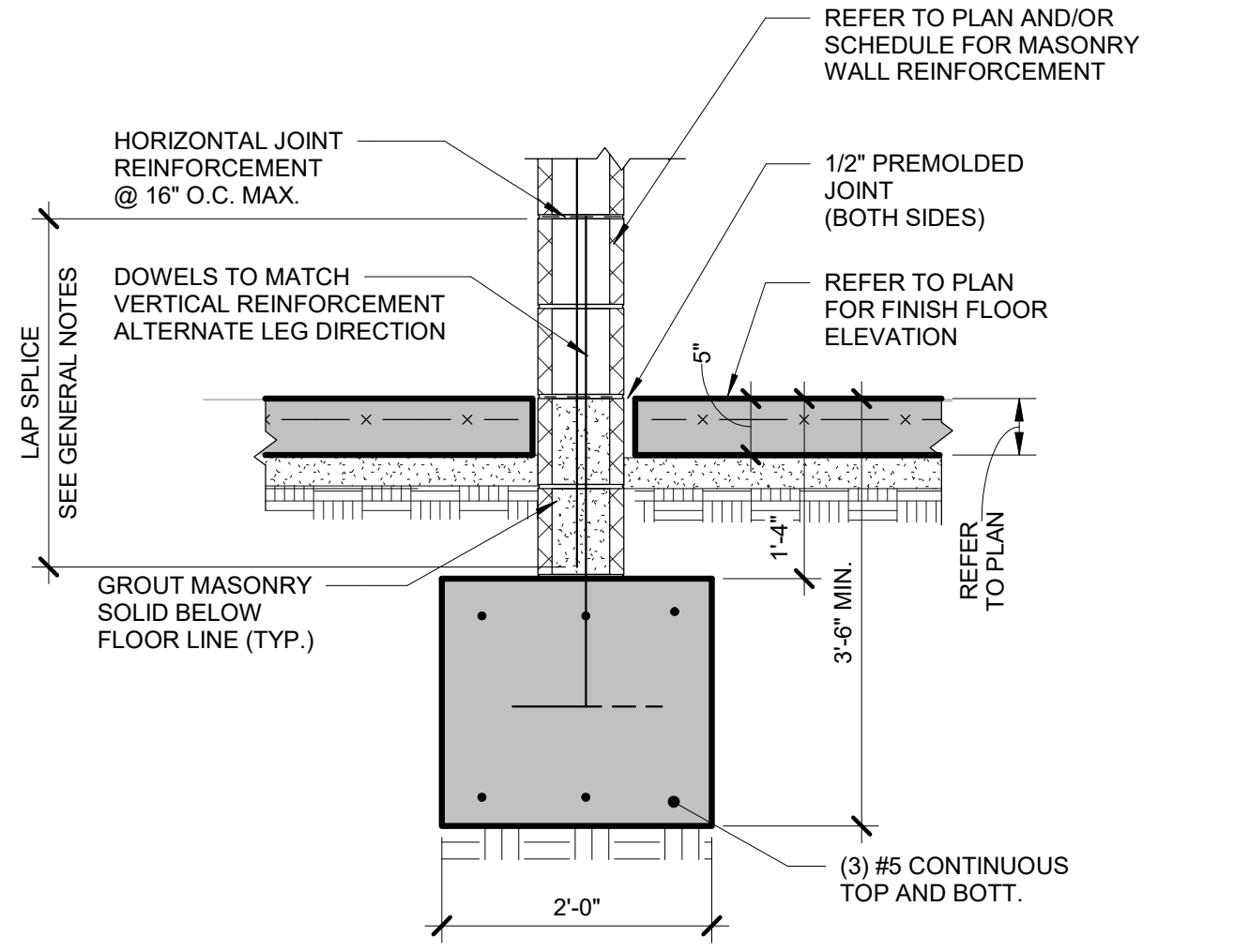
2 FORMING OF FOUNDATION
3/4" = 1'-0"



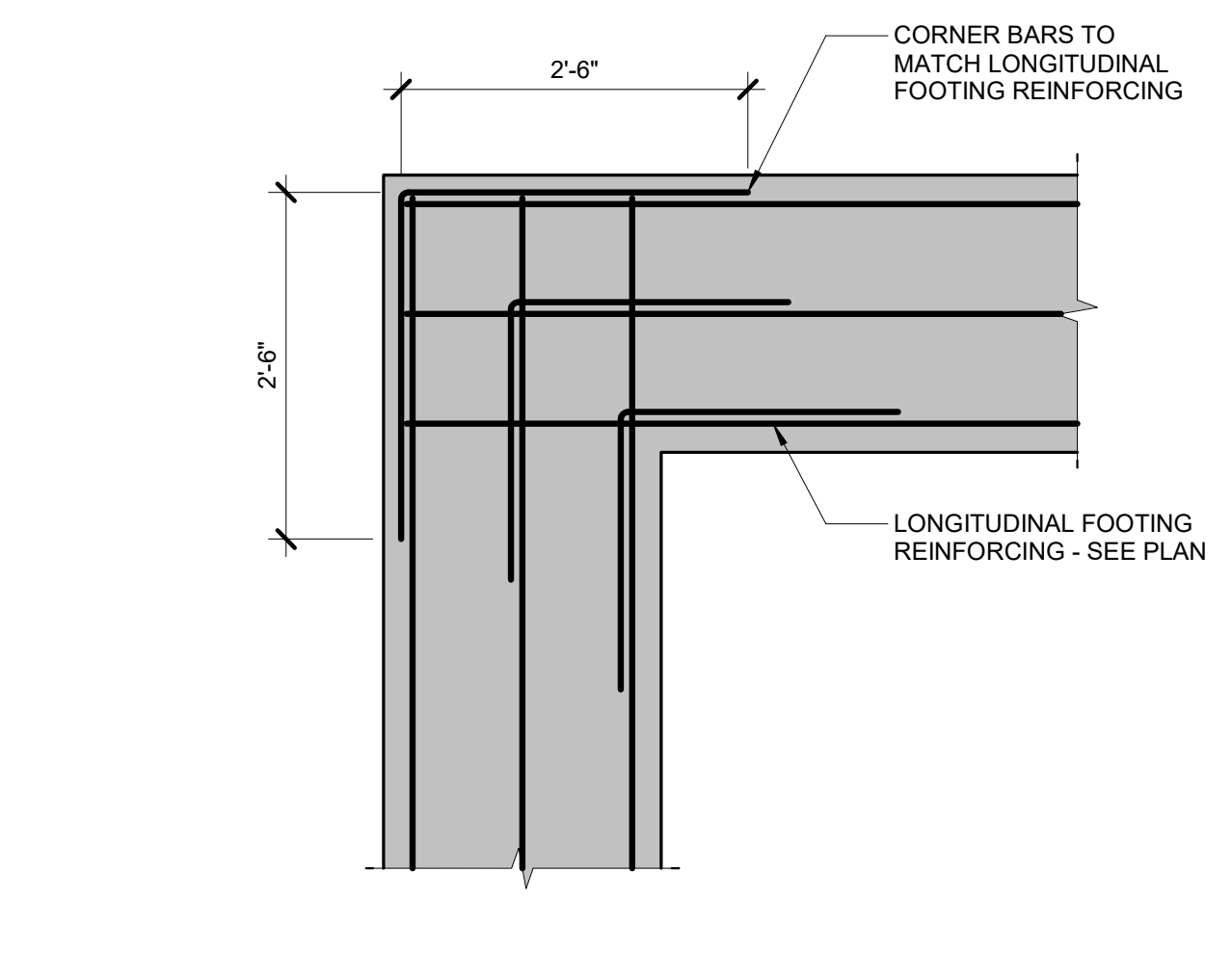
3 TYPICAL PIPE TRENCH DETAIL
3/4" = 1'-0"



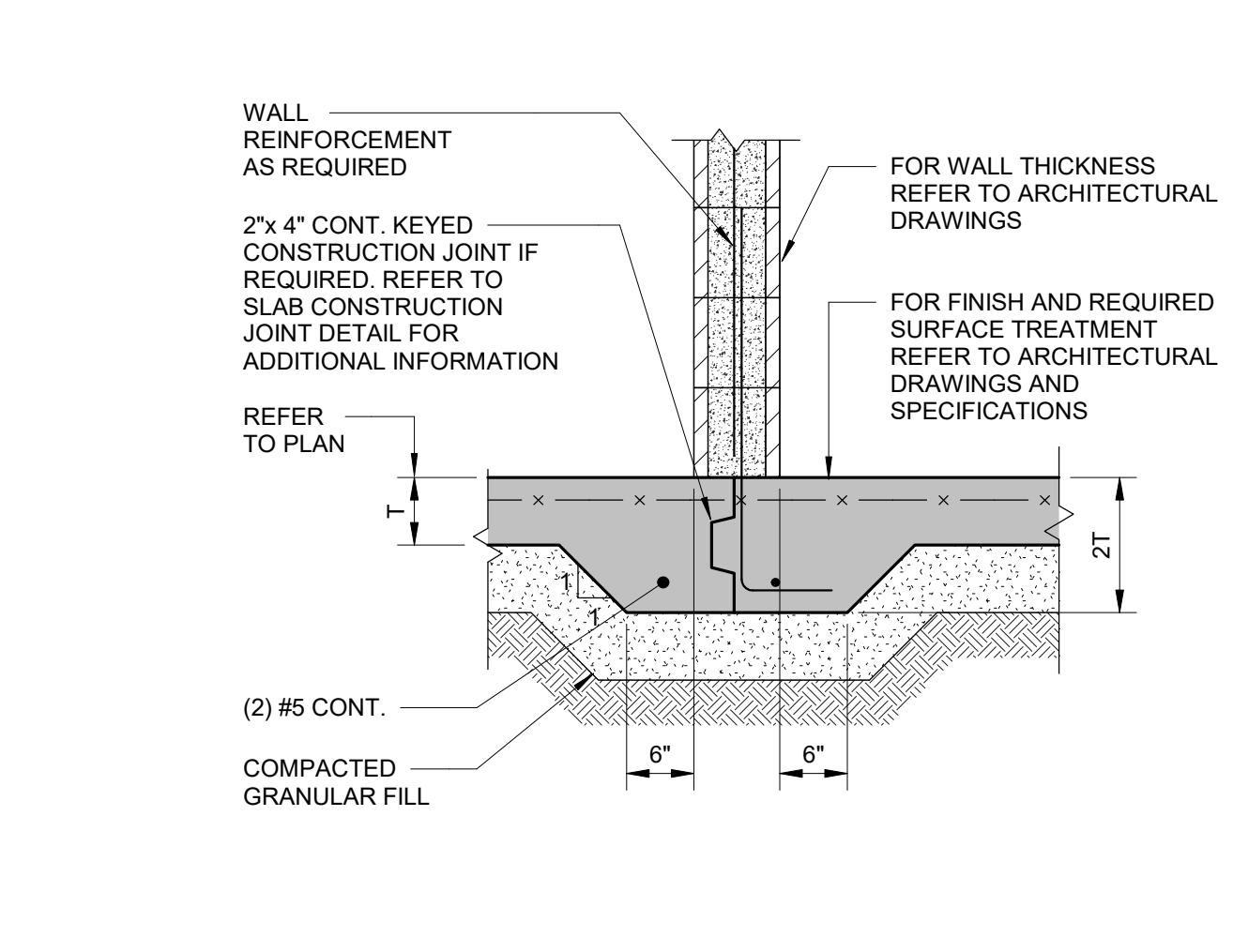
4 TYPICAL SLAB SECTION
3/4" = 1'-0"



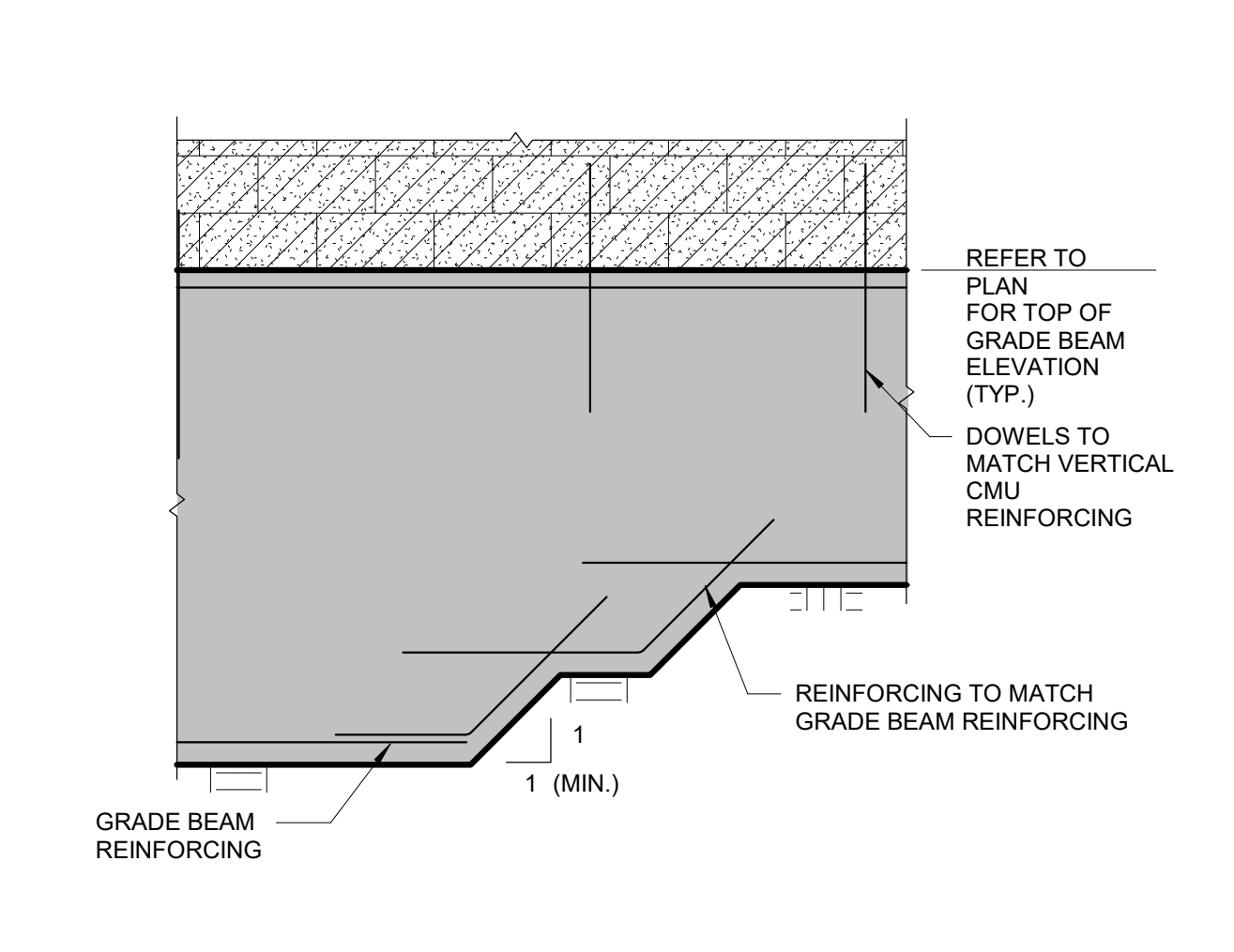
6 TYPICAL BEARING INTERIOR MW FOUNDATION
3/4" = 1'-0"



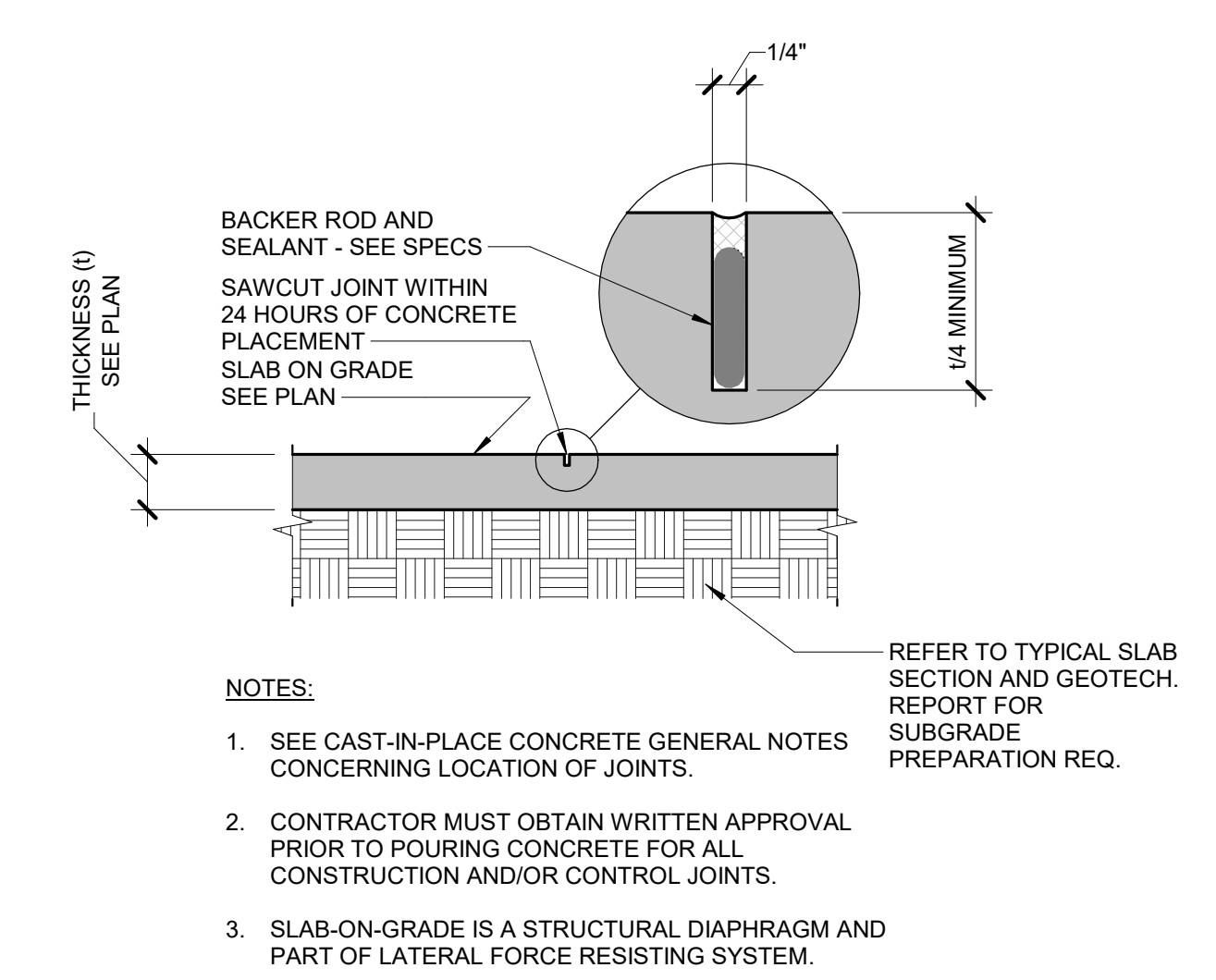
7 FOOTING CORNER BARS
3/4" = 1'-0"



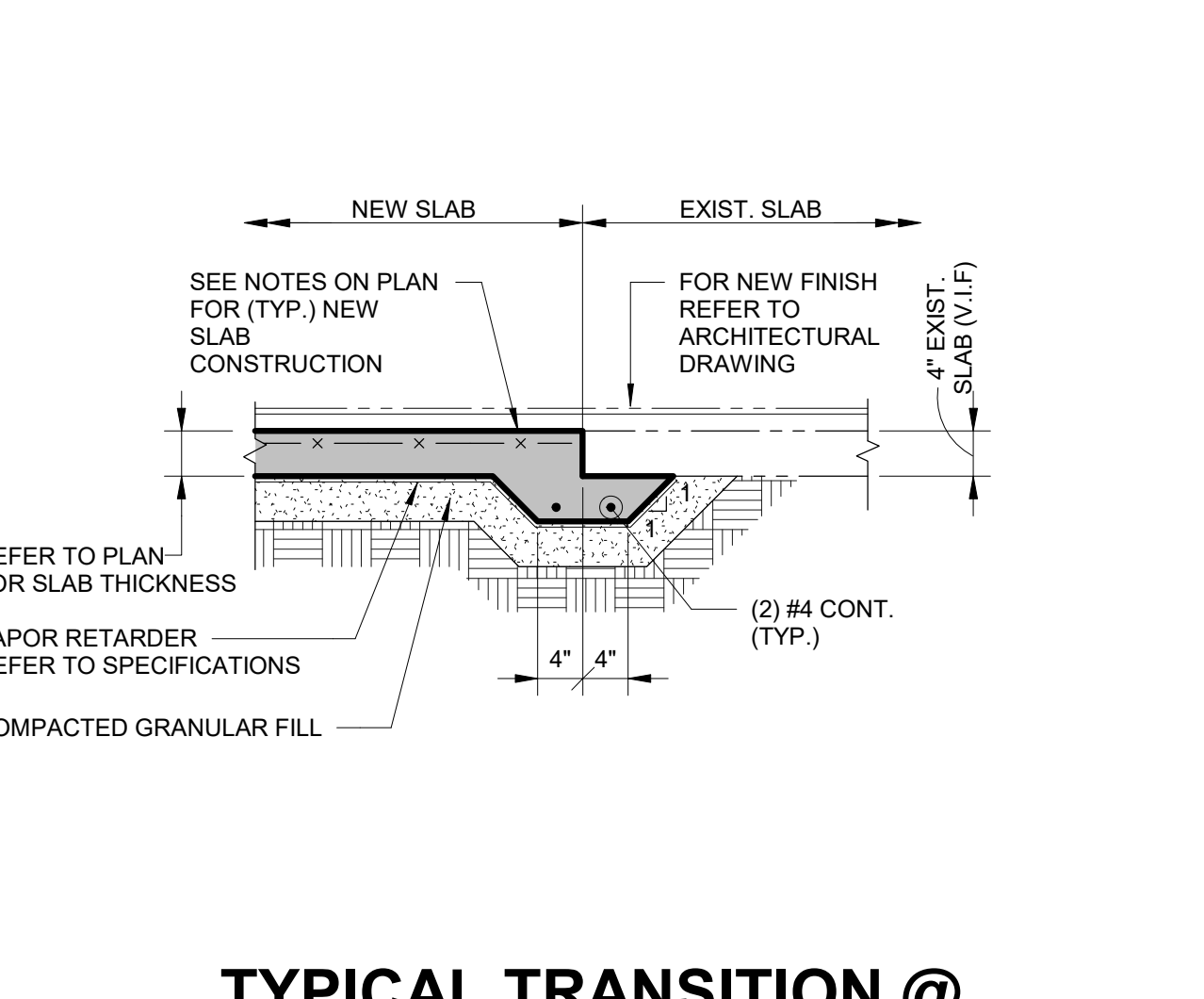
8 TYPICAL THICKENED SLAB DETAIL AT INTERIOR WALL
3/4" = 1'-0"



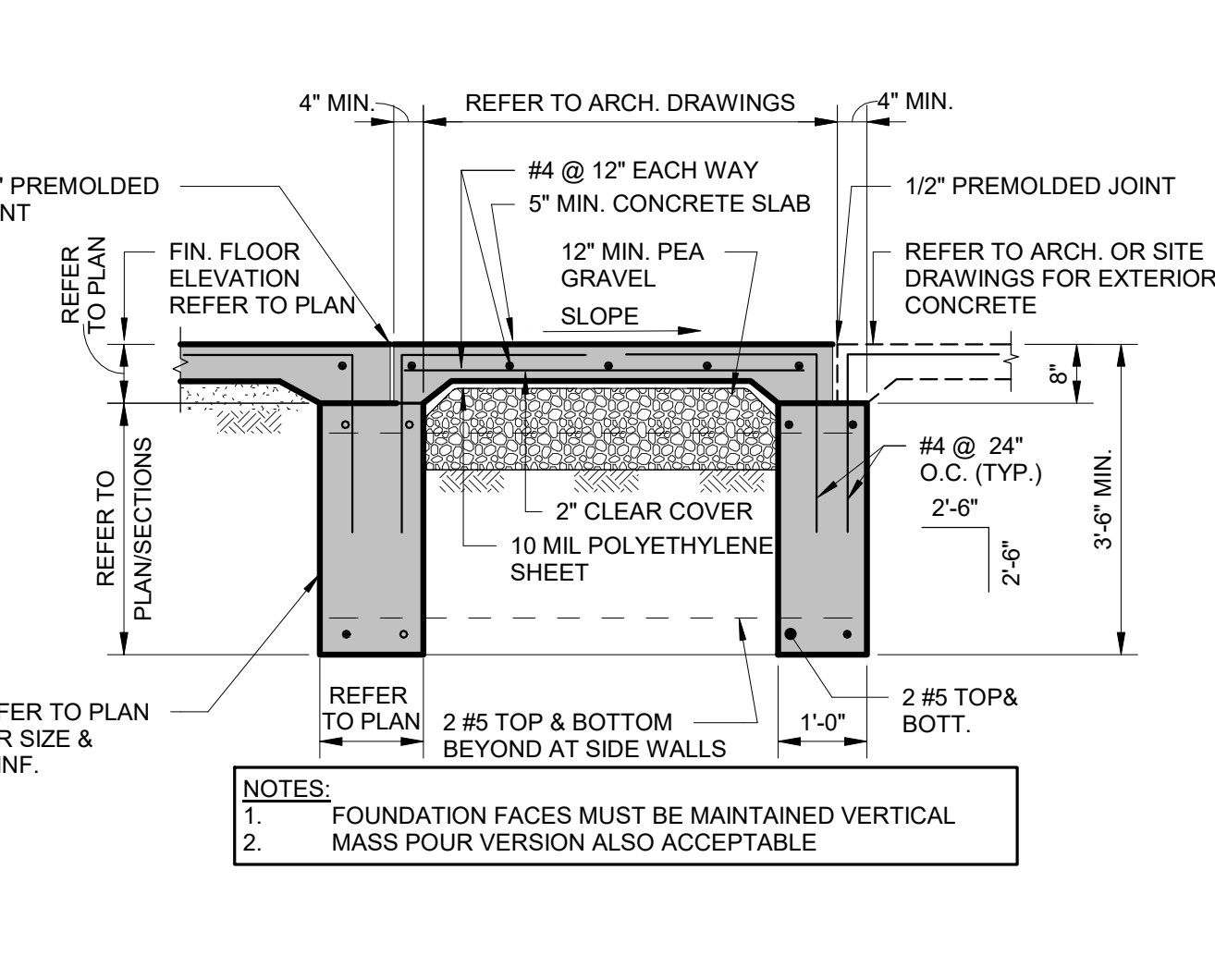
9 TYPICAL STEPPED GRADE BEAM DETAIL
1/2" = 1'-0"



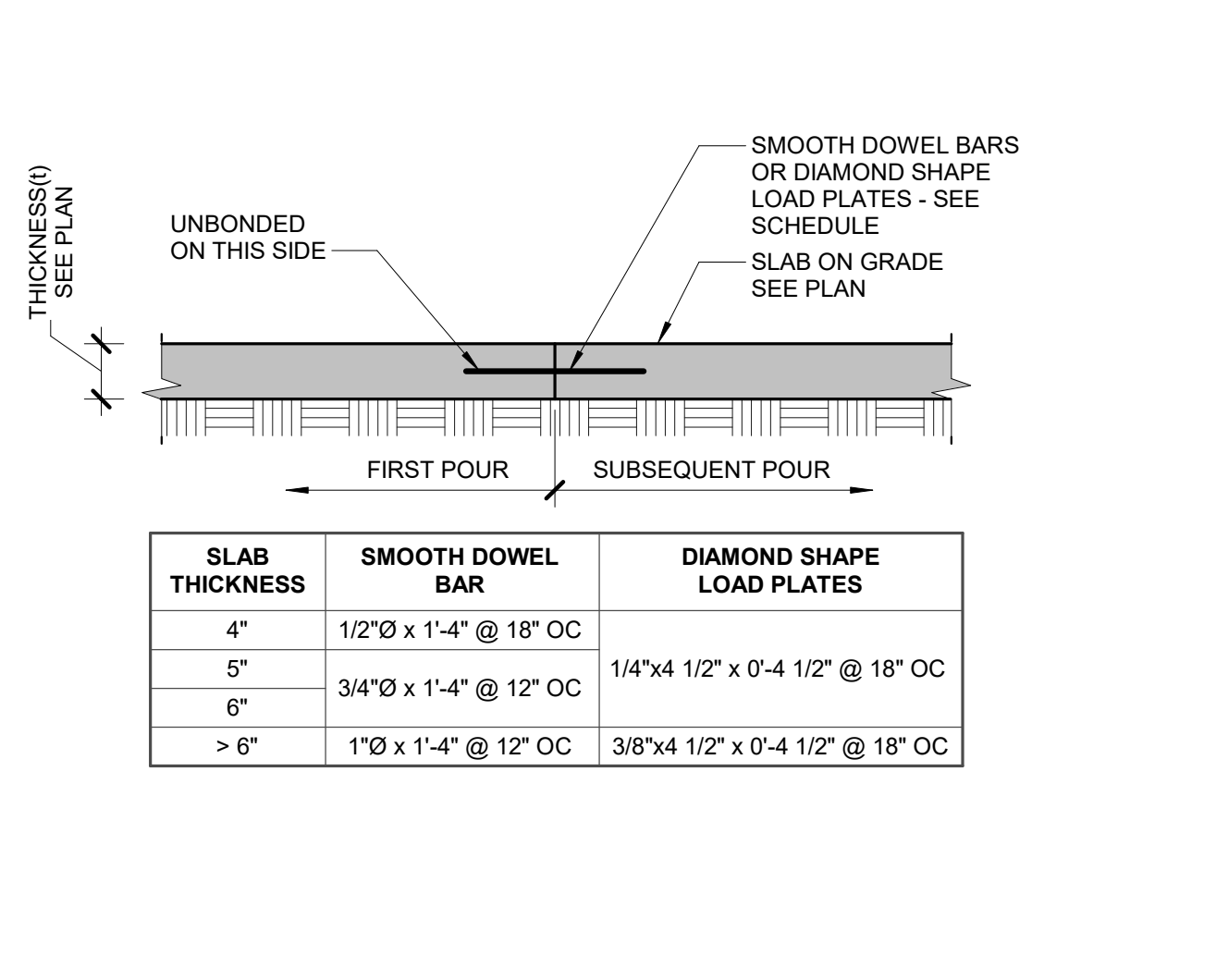
10 TYPICAL CONTROL JOINT
3/4" = 1'-0"



11 TYPICAL TRANSITION @ NEW/EXIST. SLAB
3/4" = 1'-0"



12 TYPICAL ENTRY SLAB
1/2" = 1'-0"



13 TYPICAL CONSTRUCTION JOINT
3/4" = 1'-0"

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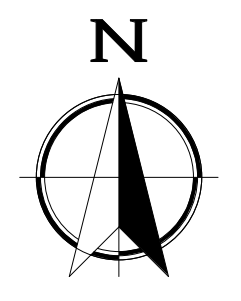
TYPICAL CONCRETE SECTIONS

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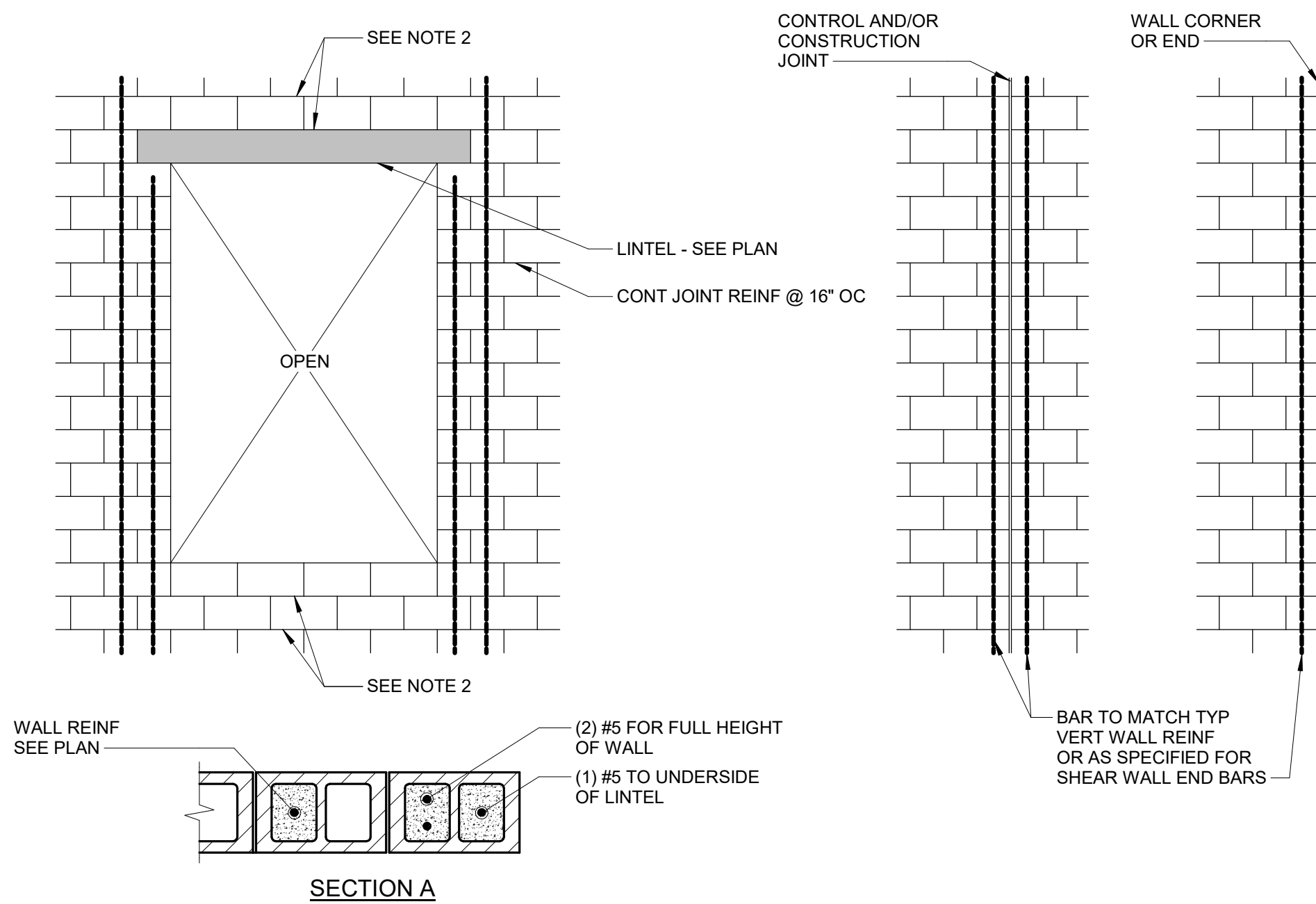
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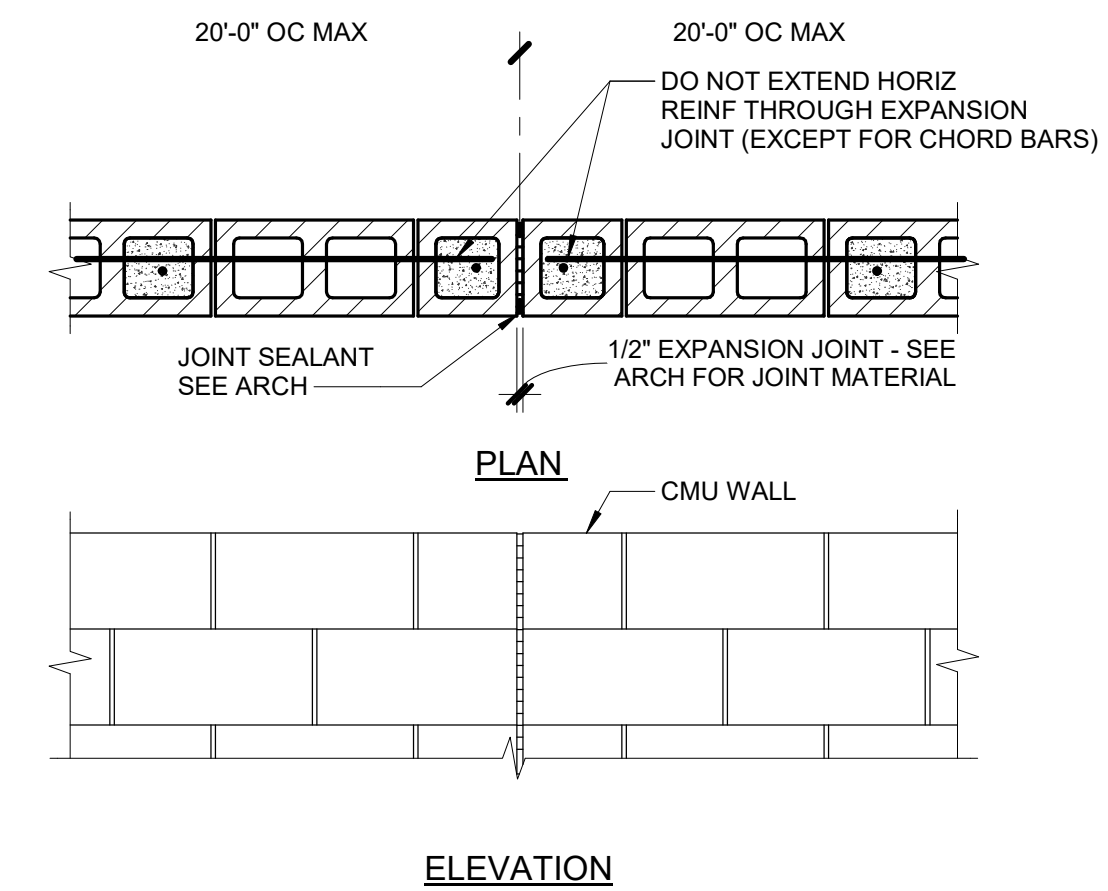
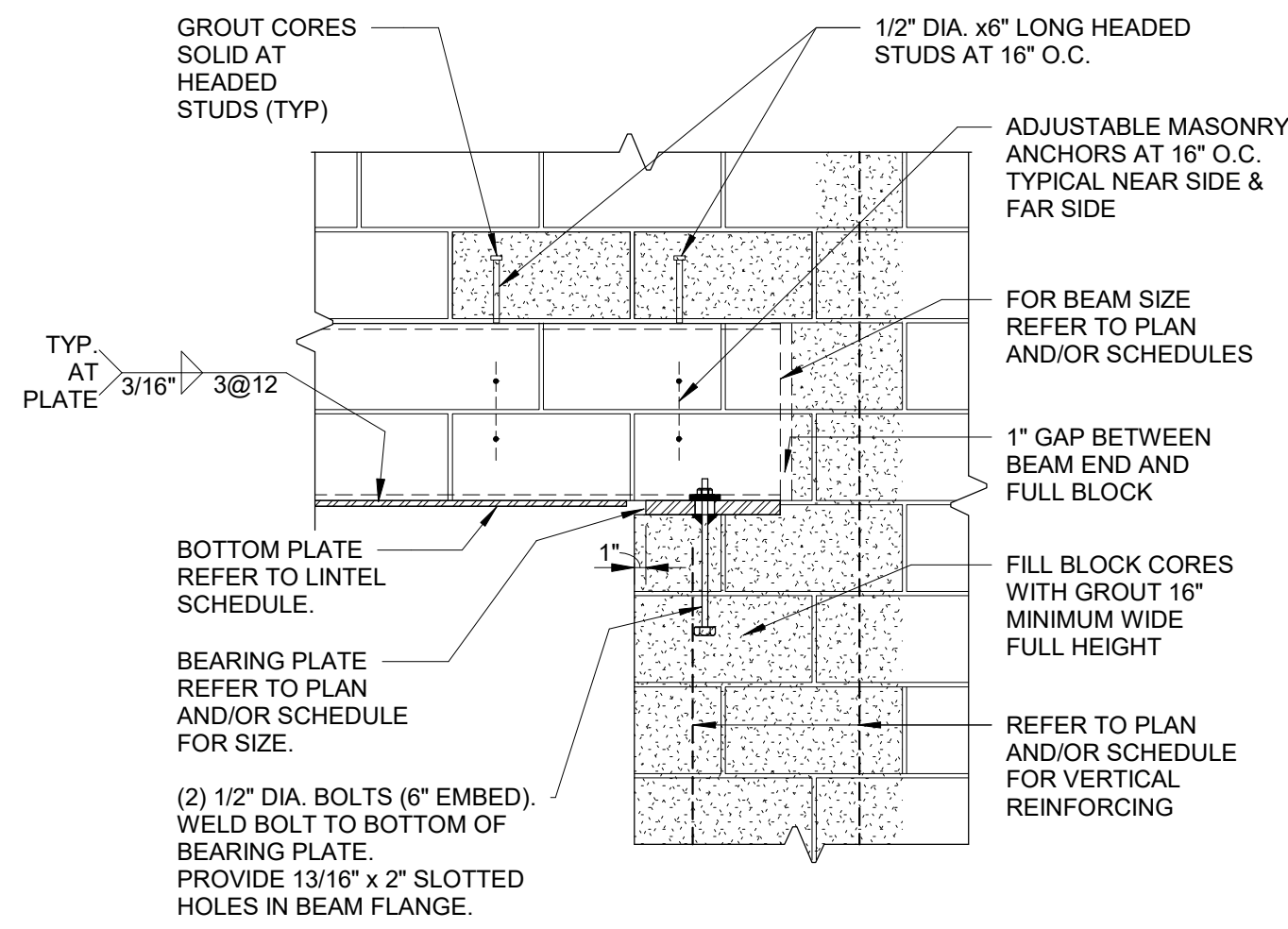
CMU REINFORCING BAR DEVELOPMENT LENGTH (L_d) SCHEDULE

CMU THICKNESS	REINFORCING LOCATION	BAR SIZE	L _d	REMARKS
6"	SINGLE LAYER, REINF CENTERED IN WALL	#3	12"	NOTE 5
		#4	16"	
		#5	28"	
8"	SINGLE LAYER, REINF CENTERED IN WALL	#3	13"	NOTE 5
		#5	20"	
		#7	38"	
10" OR 12"	SINGLE LAYER, REINF CENTERED IN WALL	#4	12"	NOTE 5
		#5	16"	
		#7	40"	
10" OR 12"	DOUBLE LAYER, REINF W/ 2 1/2" MIN CLR COVER	#4	18"	NOTE 5
		#5	28"	
		#7	70"	

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



- NOTES:**
- SEE ARCH ELEVATIONS FOR CONTROL JOINT LOCATIONS.
 - TWO COURSES OF JOINT REINF ARE REQUIRED ABOVE THE LINTEL AND BELOW THE SILL AND SHALL EXTEND A MIN OF 24 INCHES PAST THE OPENING.



REINFORCING BAR DEVELOPMENT LENGTH (L_d) SCHEDULE f_m2000

1
3/4" = 1'-0"

TYPICAL CMU WALL OPENING DETAIL

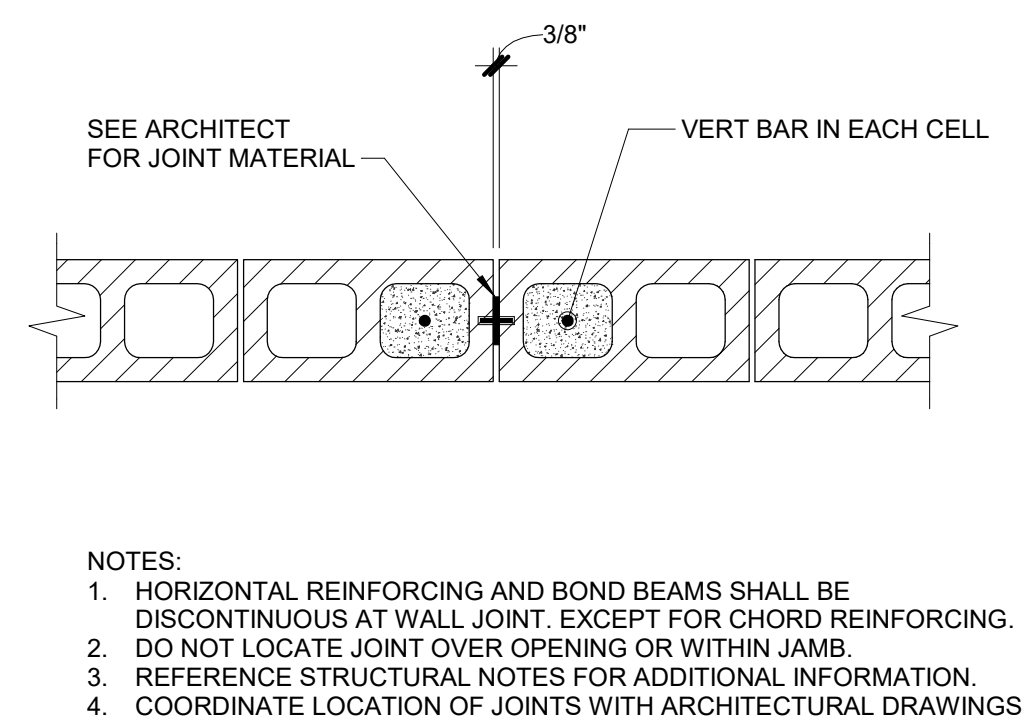
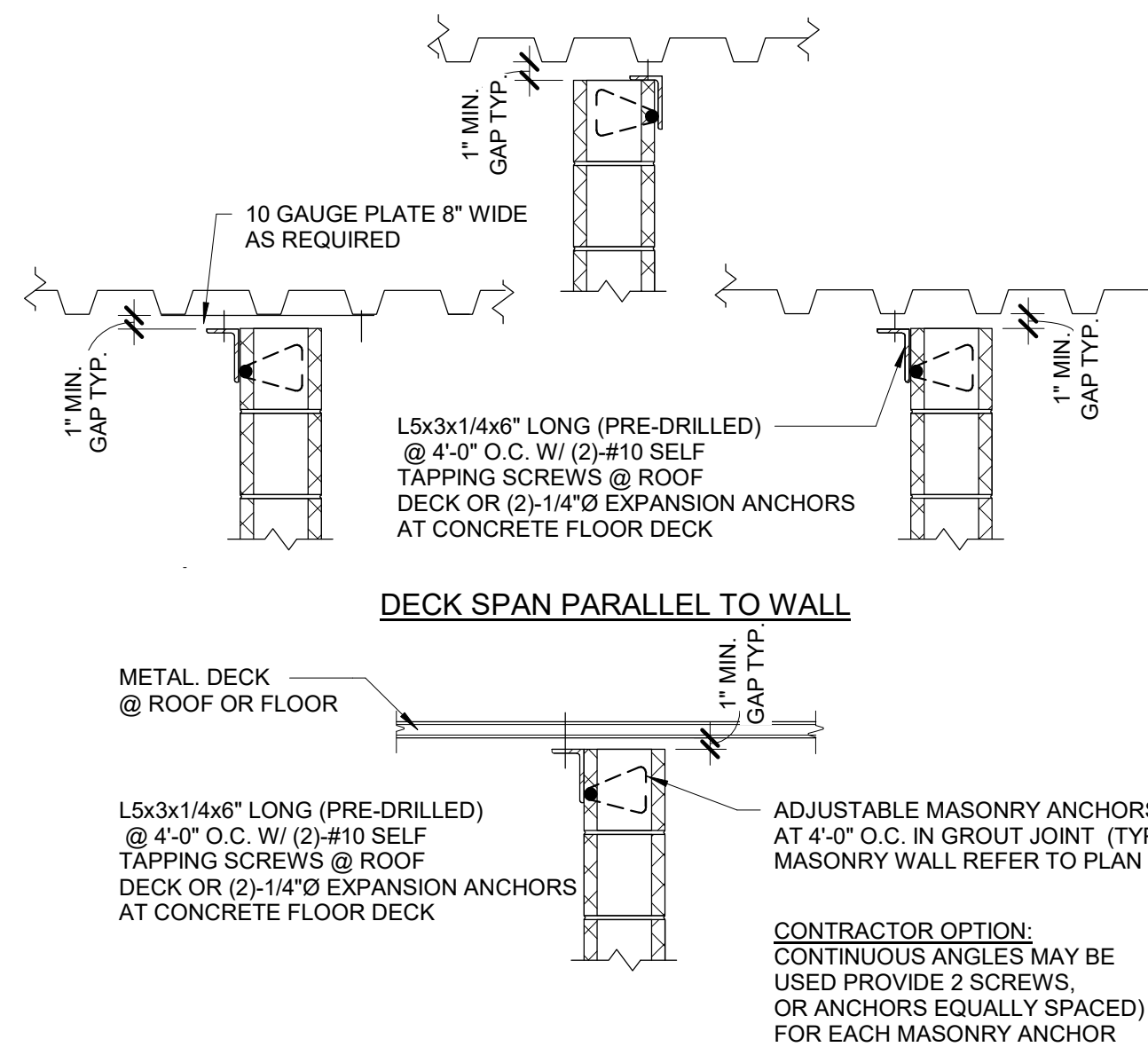
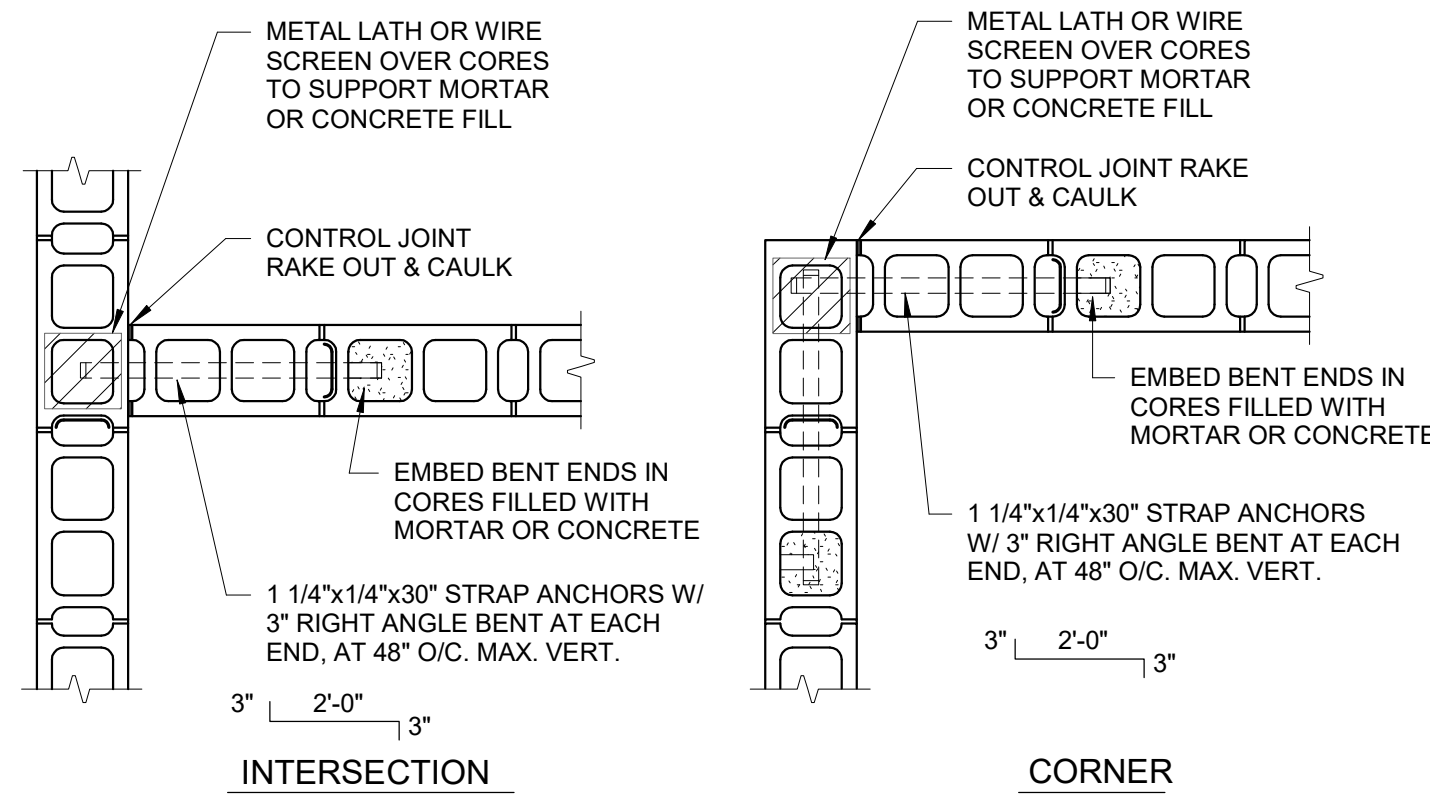
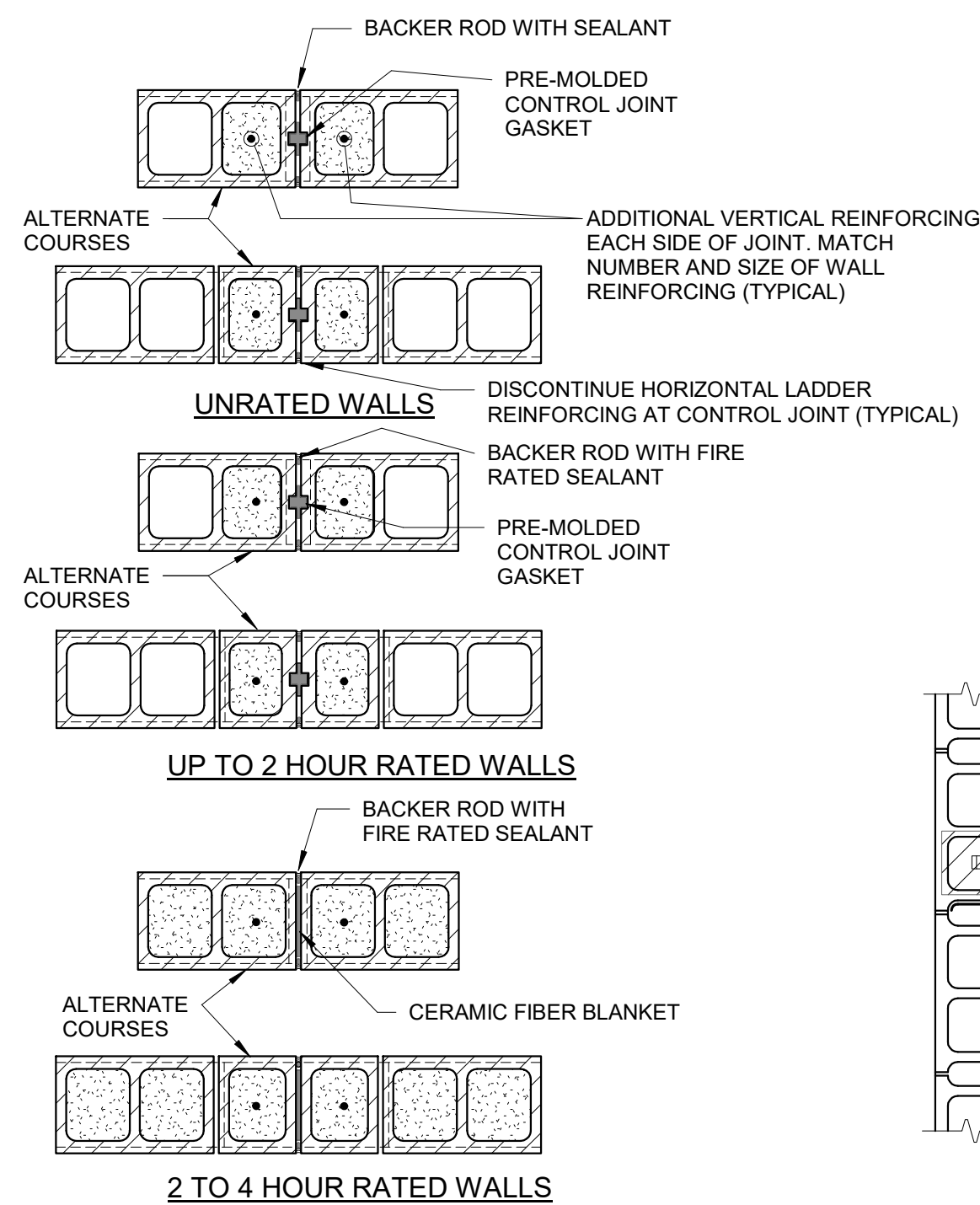
2
3/4" = 1'-0"

BEARING DETAIL

3
3/4" = 1'-0"

CMU EXPANSION JOINT DETAIL

4
3/4" = 1'-0"



TYP - MASONRY WALL CONTROL JOINT DETAIL

5
3/4" = 1'-0"

TYPICAL PLANS @ MASONRY WALL INTERSECTION & CORNER

6
3/4" = 1'-0"

MASONRY WALL ANCHORAGE DETAILS

7
3/4" = 1'-0"

WALL CONSTRUCTION JOINT

8
1" = 1'-0"

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TYPICAL MASONRY SECTIONS

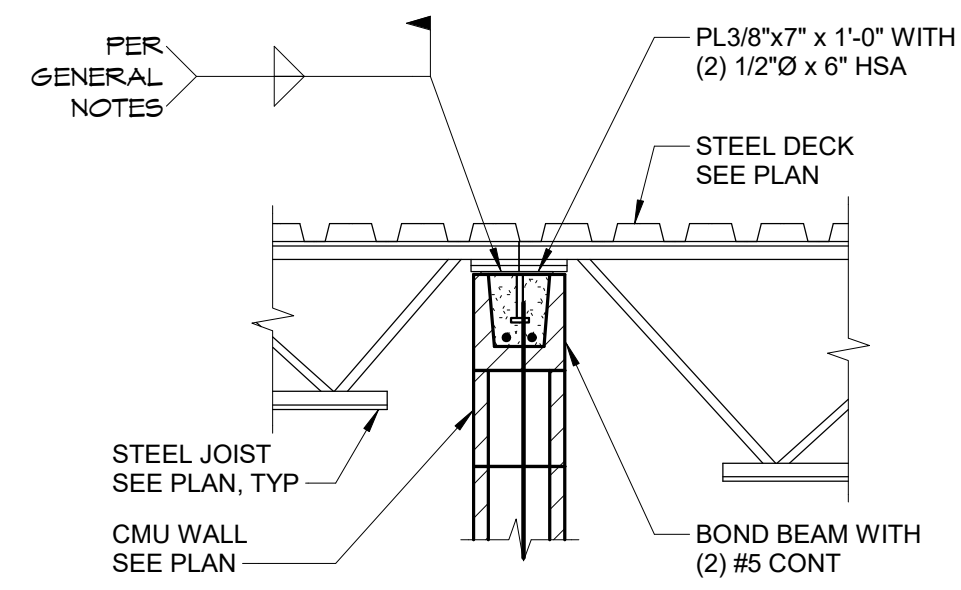
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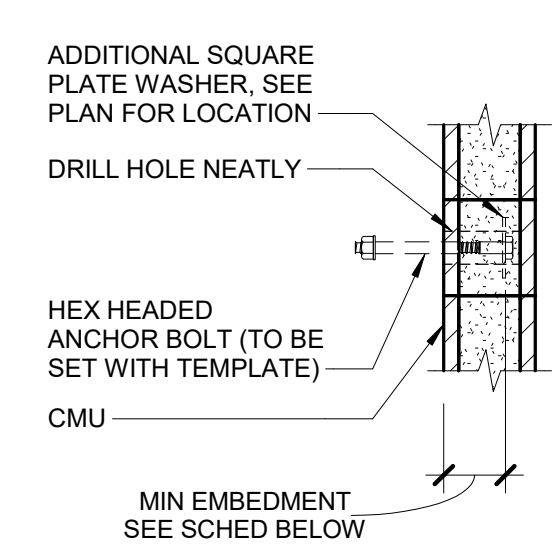
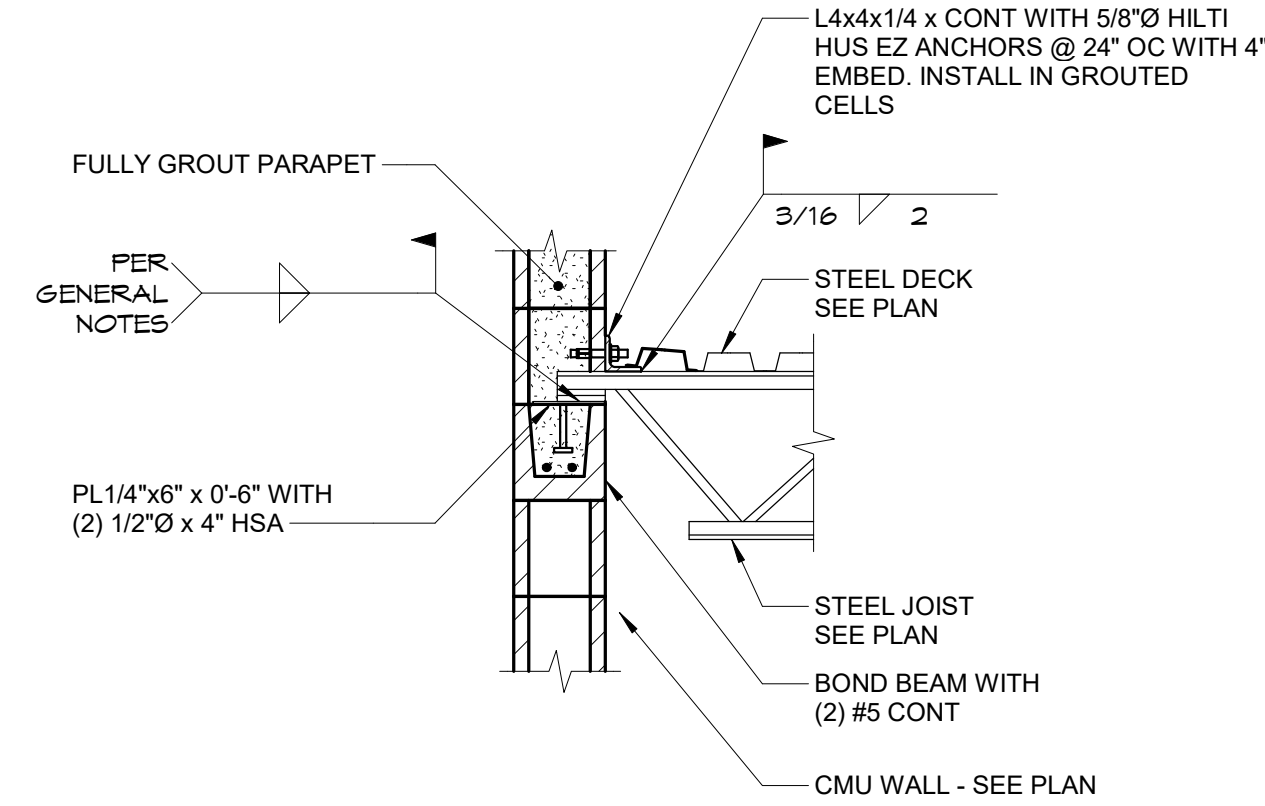
Project No. 4321

\$4.00



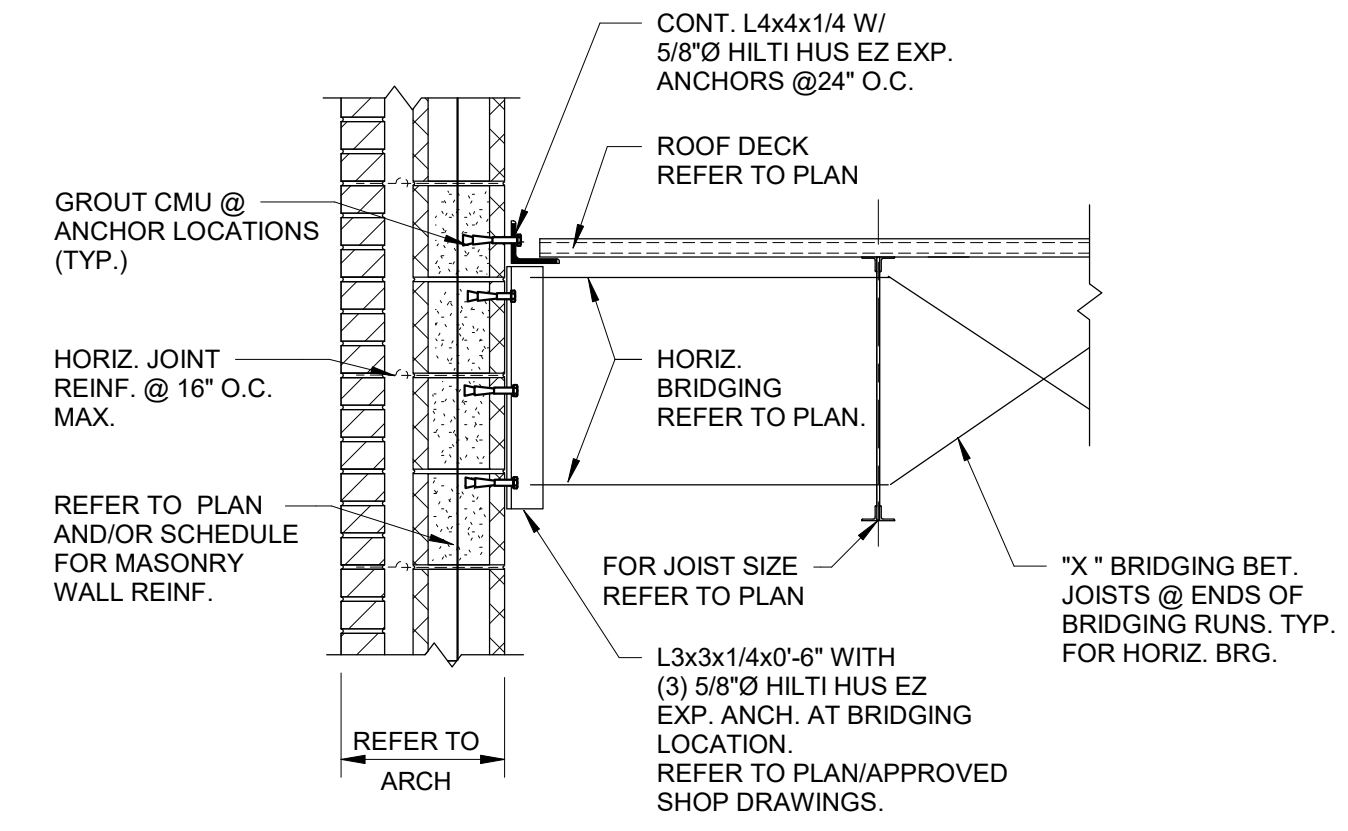


NOTE:
1. STAGGER JOISTS AS REQUIRED TO PROVIDE MIN BEARING PER GENERAL NOTES.



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

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

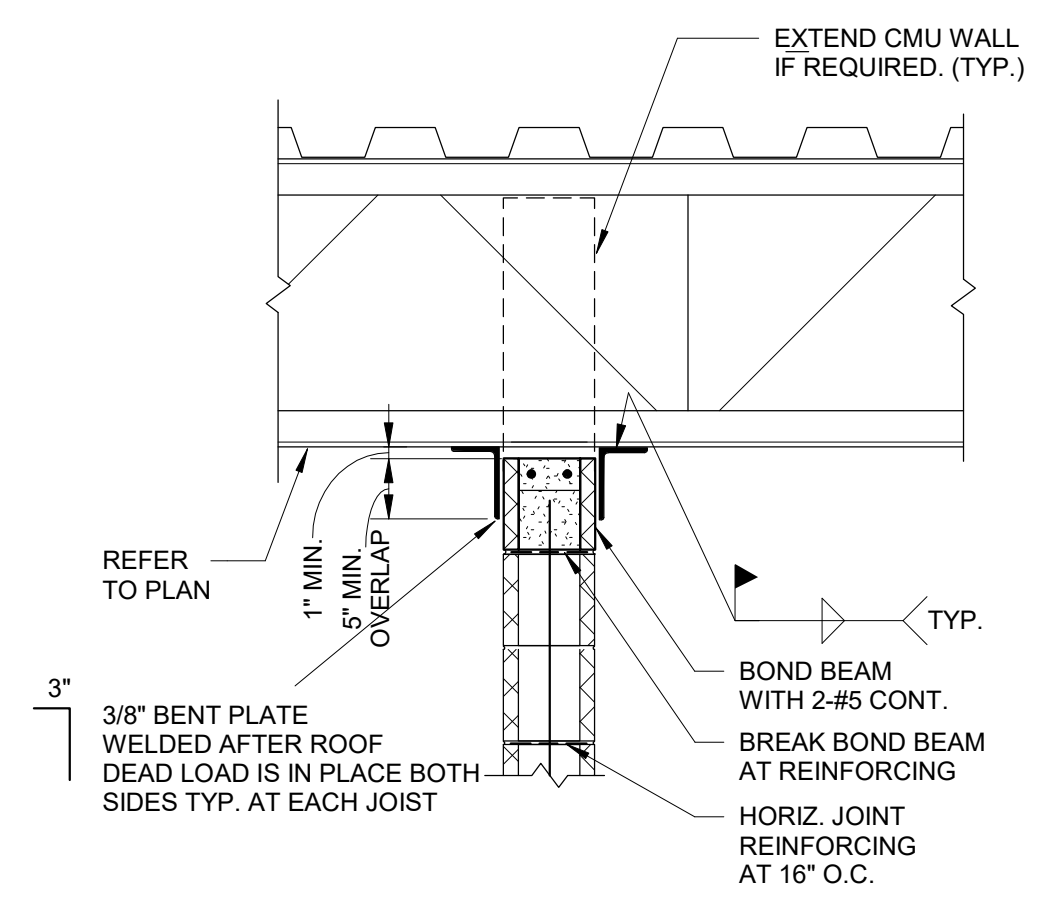


1 TYPICAL ROOF JOIST BEARING ON INTERIOR CMU WALL
3/4" = 1'-0"

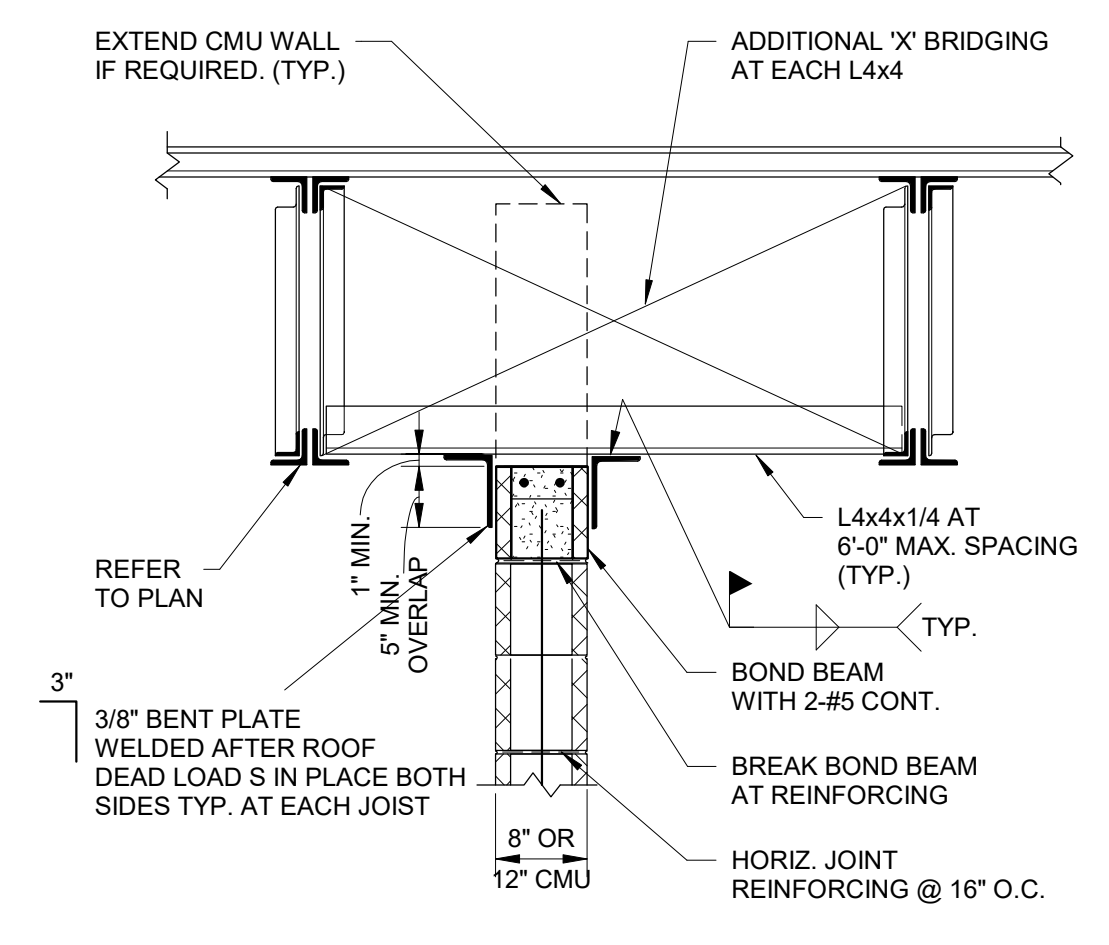
2 TYPICAL ROOF JOIST BEARING ON EXTERIOR CMU WALL
3/4" = 1'-0"

3 ANCHOR BOLT CAST INTO CMU DETAIL
3/4" = 1'-0"

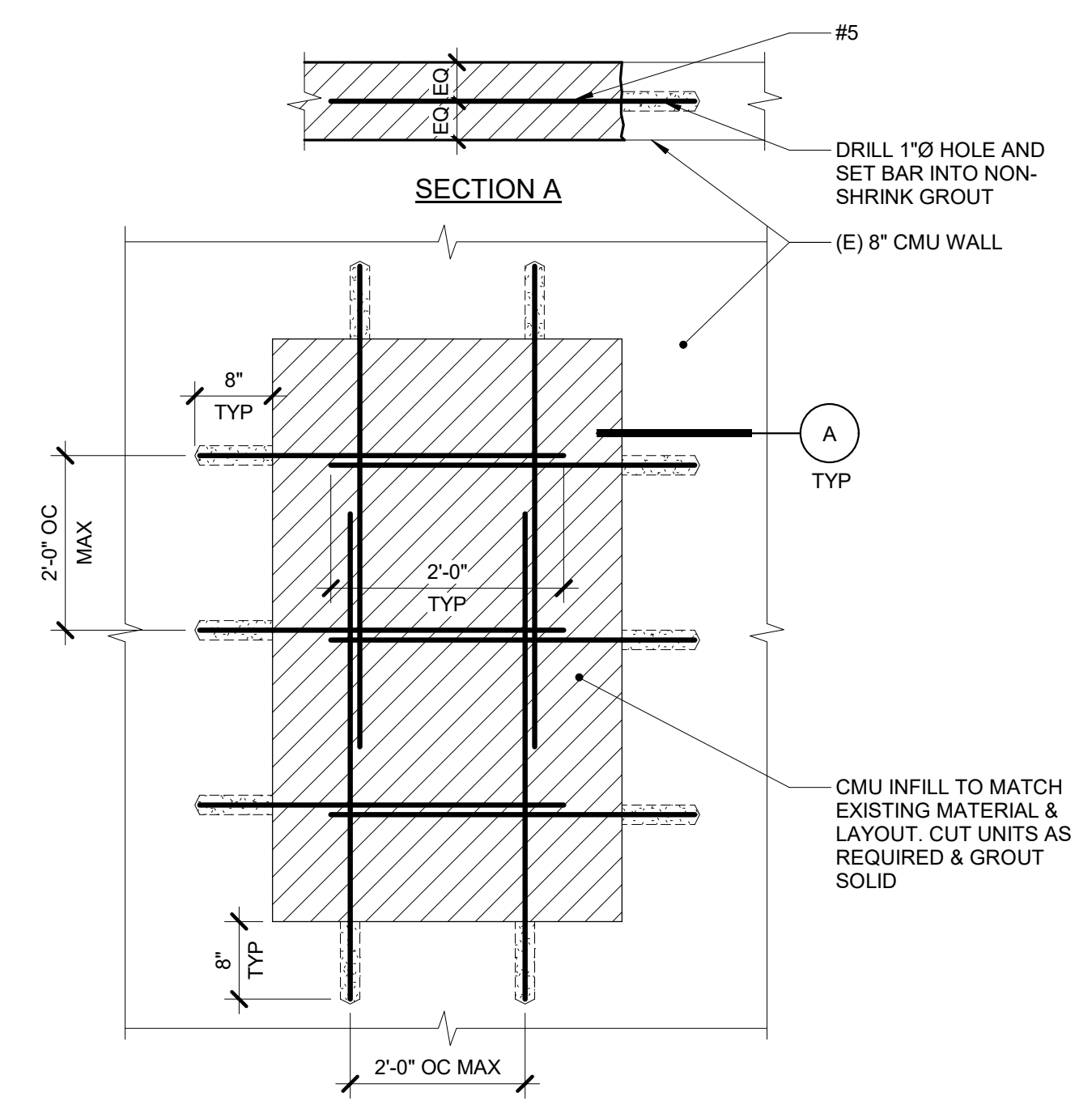
4 JOIST BRIDGING CONN. TO MASONRY WALL
3/4" = 1'-0"



5 MASONRY WALL BRACE PERPENDICULAR TO JOIST
3/4" = 1'-0"



6 MASONRY WALL BRACE PARALLEL JOIST
3/4" = 1'-0"



7 CMU INFILL ELEVATION
3/4" = 1'-0"

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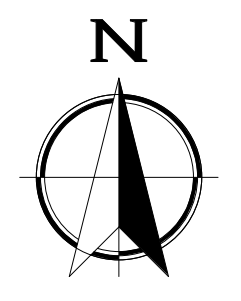
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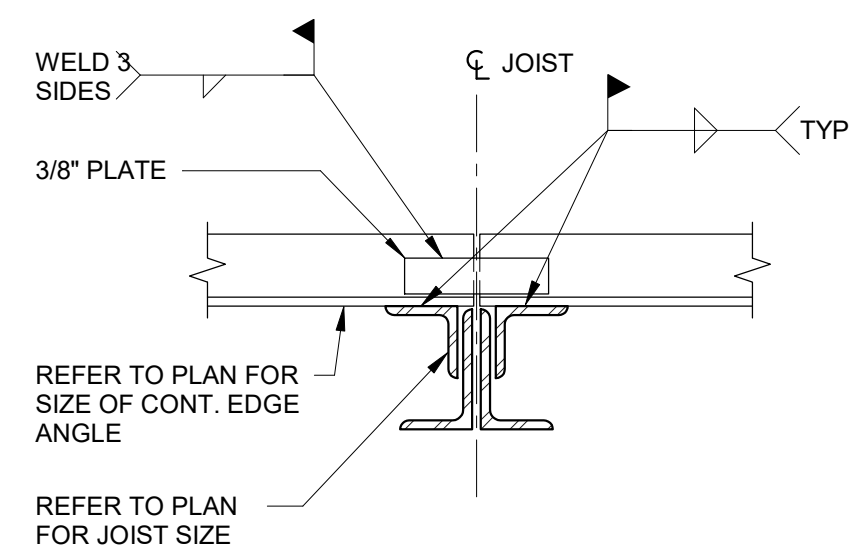
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TYPICAL MASONRY SECTIONS

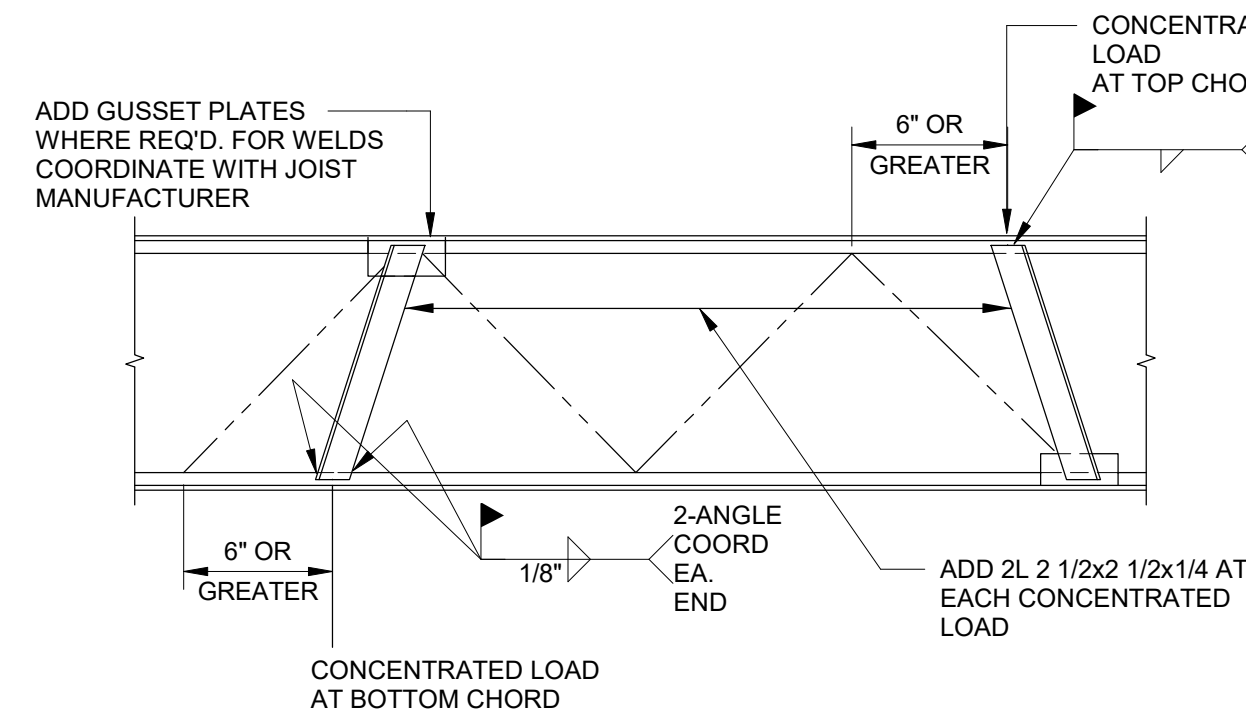
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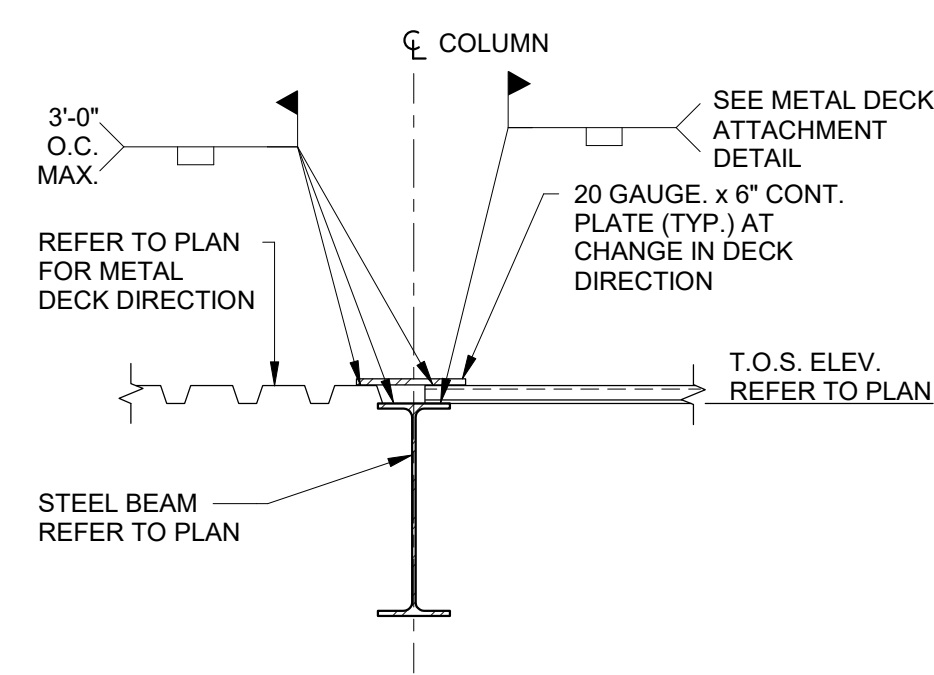




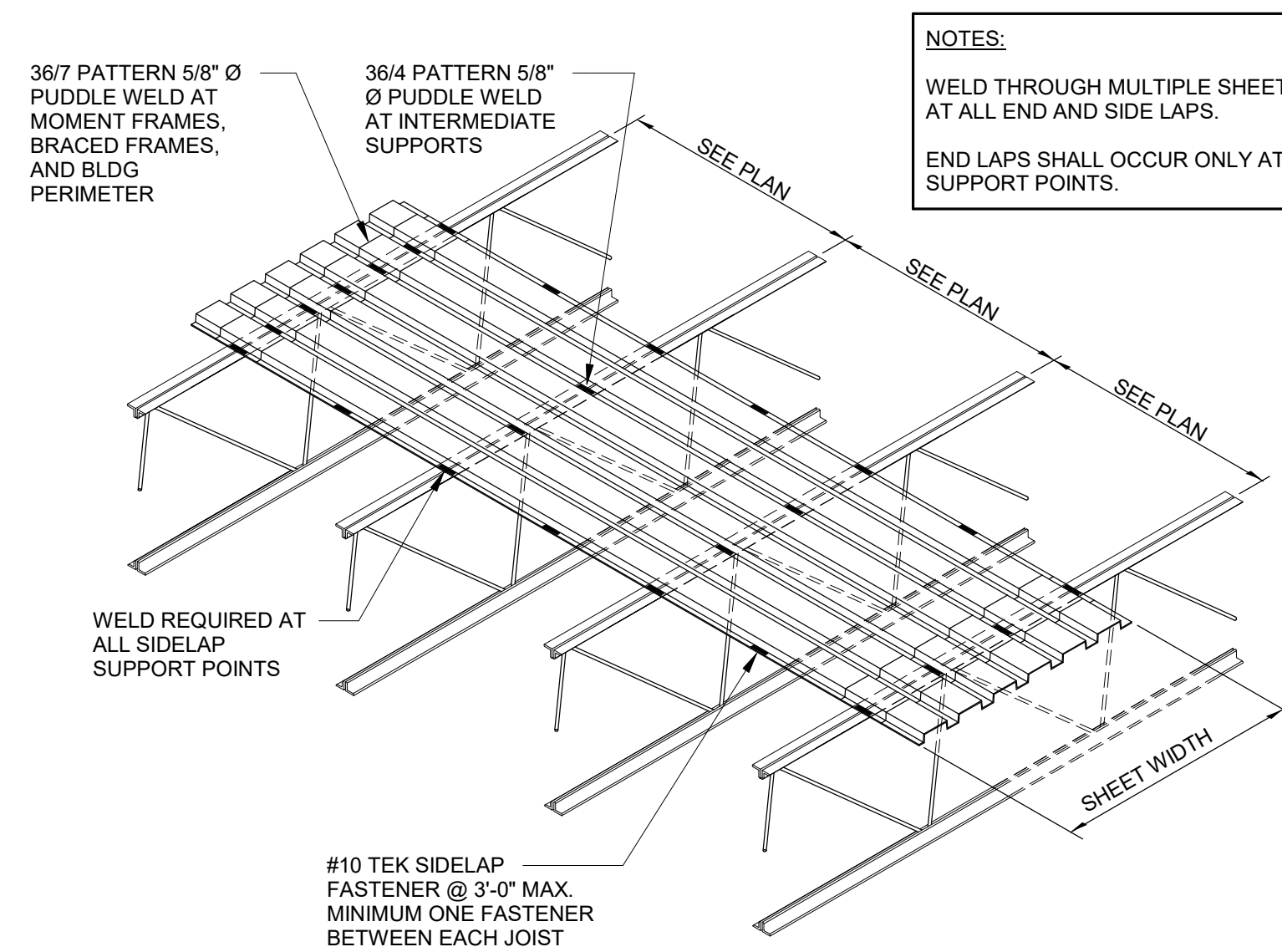
1 TYP. CONT. ANGLE SPLICE AT ROOF PERIMETER
1 1/2" = 1'-0"



2 TYP. JOIST REINF. AT CONCENTRATED LOAD
3/4" = 1'-0"



3 TYP. CHANGE IN DECK DIRECTION AT ROOF
3/4" = 1'-0"

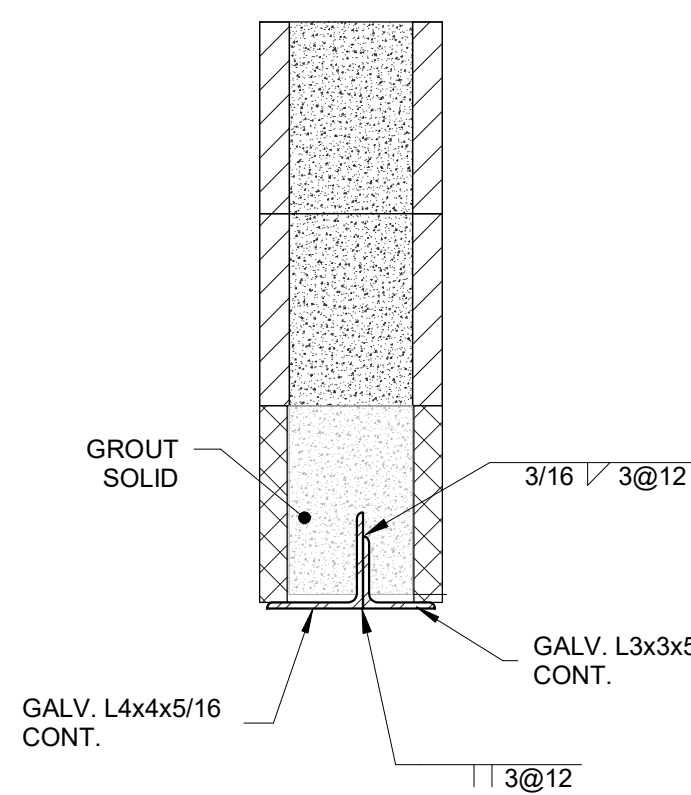


4 TYPICAL ROOF DECK FASTENER PATTERNS
1/2" = 1'-0"

STEEL LINTEL SCHEDULE				
MARK	OPENING	SIZE	BEARING (MIN.)	REMARKS (L" x W" x T")
L01	TYPICAL INTERIOR OPENING (UP TO 5'-0" U.O.N.)	SEE DETAIL 6/S6.00	8"	
L02	TYPICAL INTERIOR OPENING	SEE DETAIL 7/S6.00	8"	7"x7"x3/8" BEARING PL. W. (2) 1/2" DIA. x 6" HD. STUDS
L03	EXTERIOR OPENING	SEE DETAIL 8/S6.00	8"	7"x7"x1/2" BEARING PL. W. (2) 1/2" DIA. x 6" HD. STUDS
L04	EXTERIOR OPENING UP TO 7'-0"	SEE DETAIL 9/S6.00	8"	7"x7"x3/8" BEARING PL. W. (2) 1/2" DIA. x 6" HD. STUDS
L05	EXTERIOR OPENING UP TO 7'-0"	SEE DETAIL 10/S6.00	8"	7"x7"x3/8" BEARING PL. W. (2) 1/2" DIA. x 6" HD. STUDS

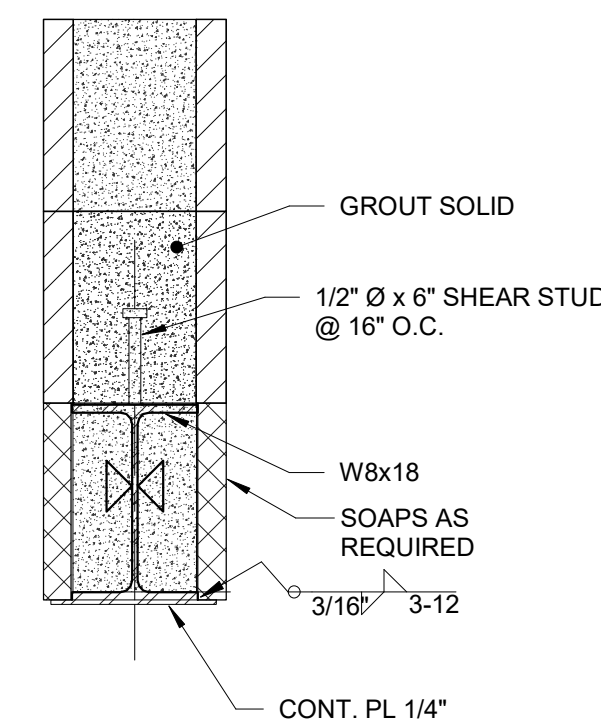
- NOTES**
- PLACE LINTEL BEAMS CENTERED IN WALLS (U.O.N.)
 - ALL EXTERIOR LINTELS SHALL BE GALVANIZED.
 - REFER TO ARCH. DRAWINGS FOR MISC. INTERIOR LINTELS NOT SHOWN ON STRUCT. PLAN

5 LINTEL SCHEDULE
1:1

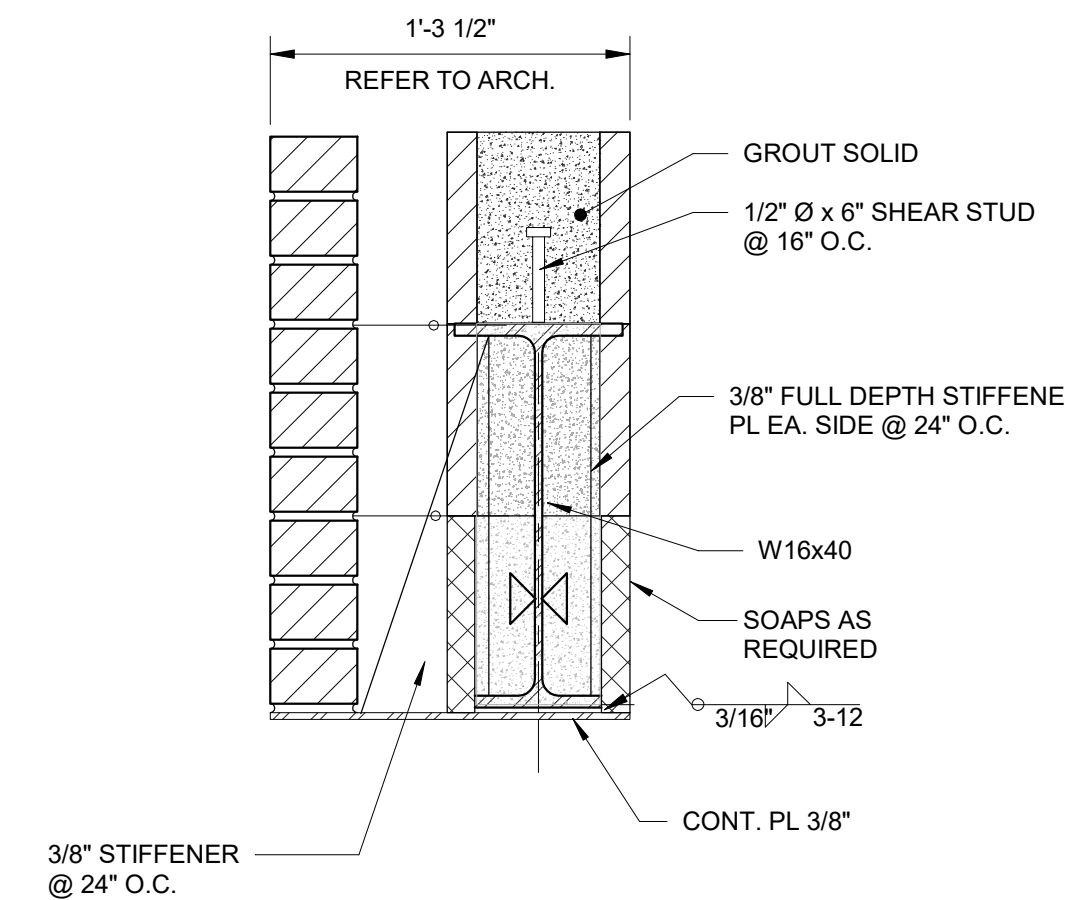


NOTE: USE GALV. L3x2 1/2x3/8 CONT. + GALV. 3X3X3/8 CONT. FOR 6" NON-BEARING CMU WALL.

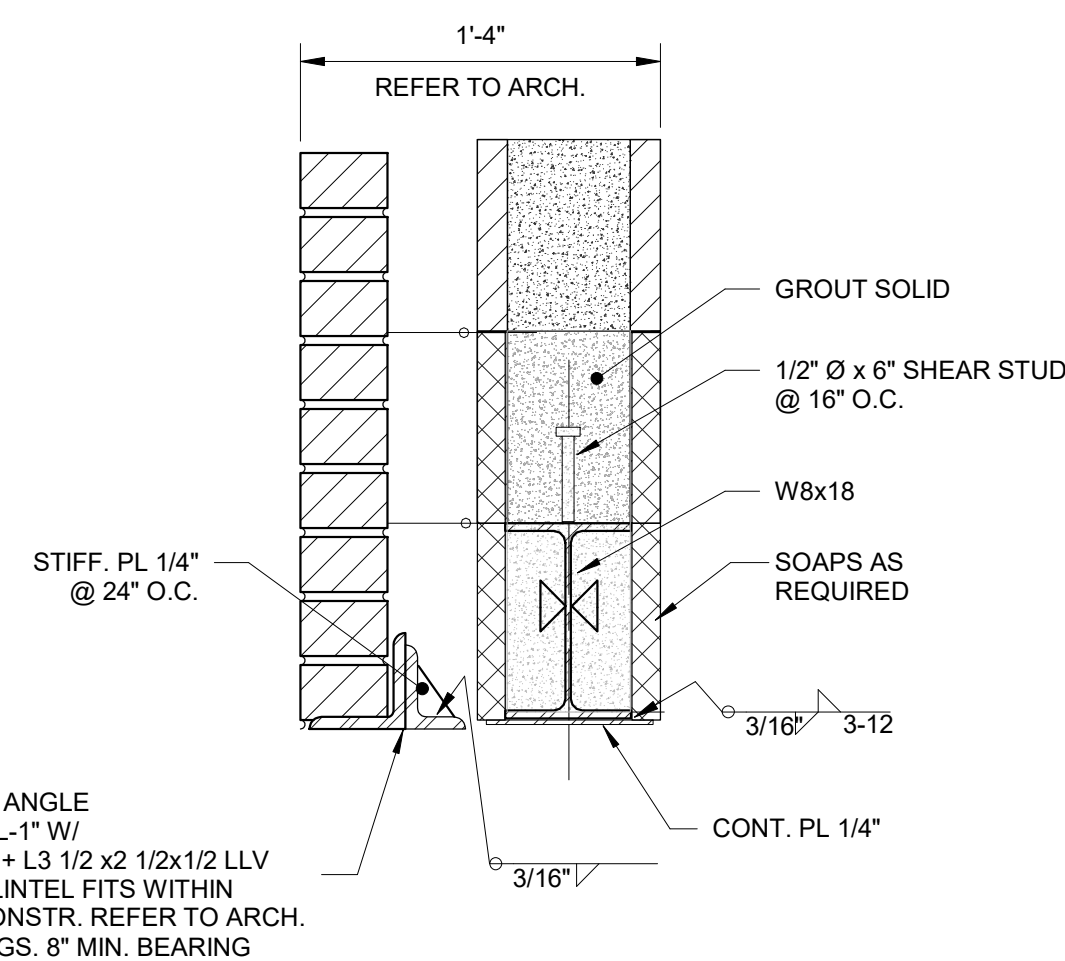
6 INTERIOR LINTEL L-1 @ NON-BEARING WALLS
1 1/2" = 1'-0"



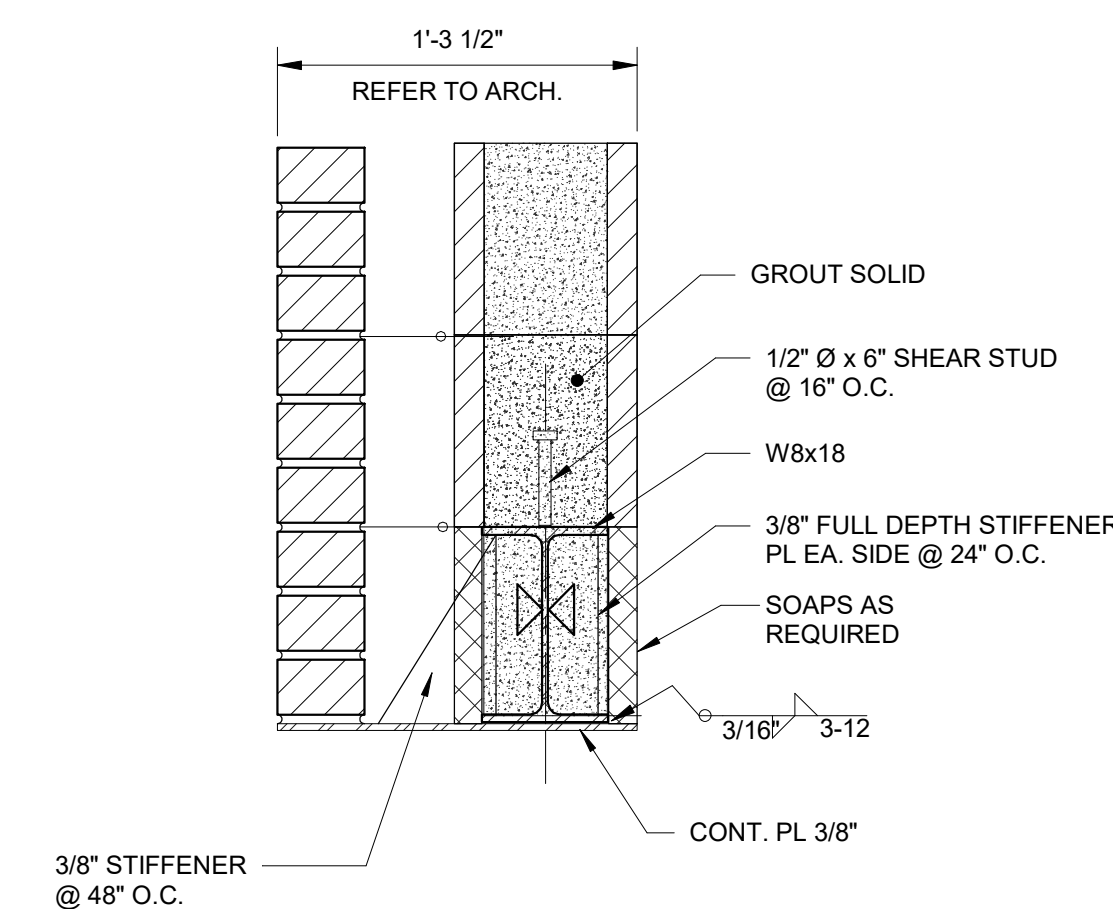
7 INTERIOR LINTEL L-2
1 1/2" = 1'-0"



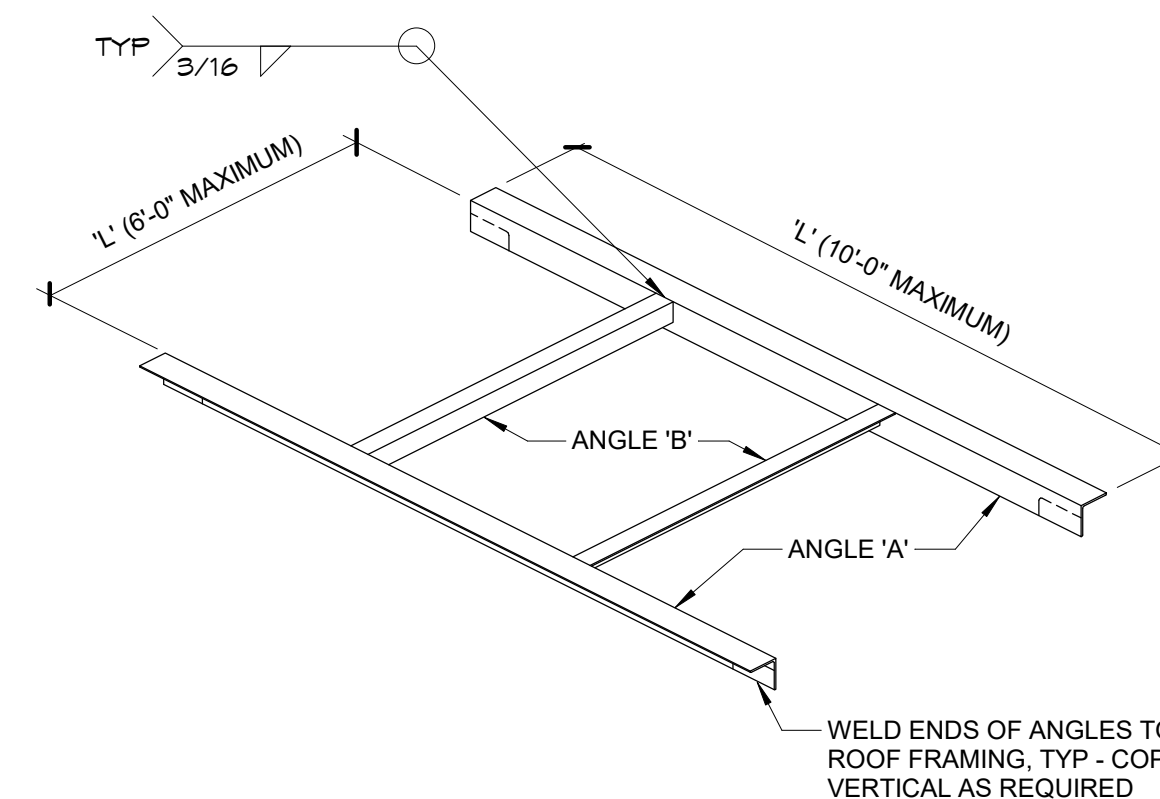
8 EXTERIOR BRICK LINTEL L-3
1 1/2" = 1'-0"



9 EXTERIOR BRICK LINTEL L-4
1 1/2" = 1'-0"



10 EXTERIOR BRICK LINTEL L-5
1 1/2" = 1'-0"



'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

- NOTES**
- SEE ARCH. AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
 - ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

11 ROOF OPENING DETAIL
3/4" = 1'-0"

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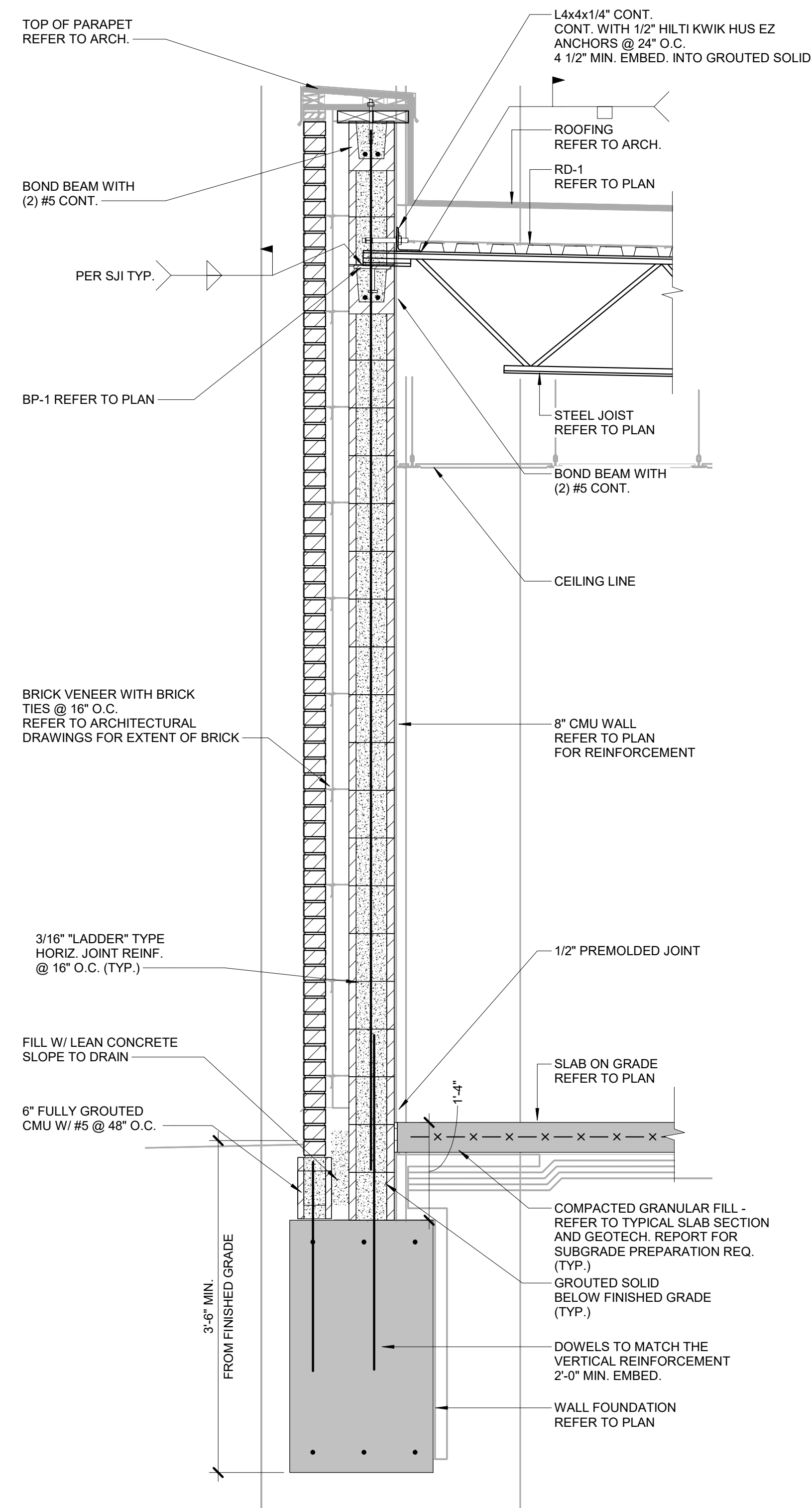
TYPICAL STEEL DETAILS



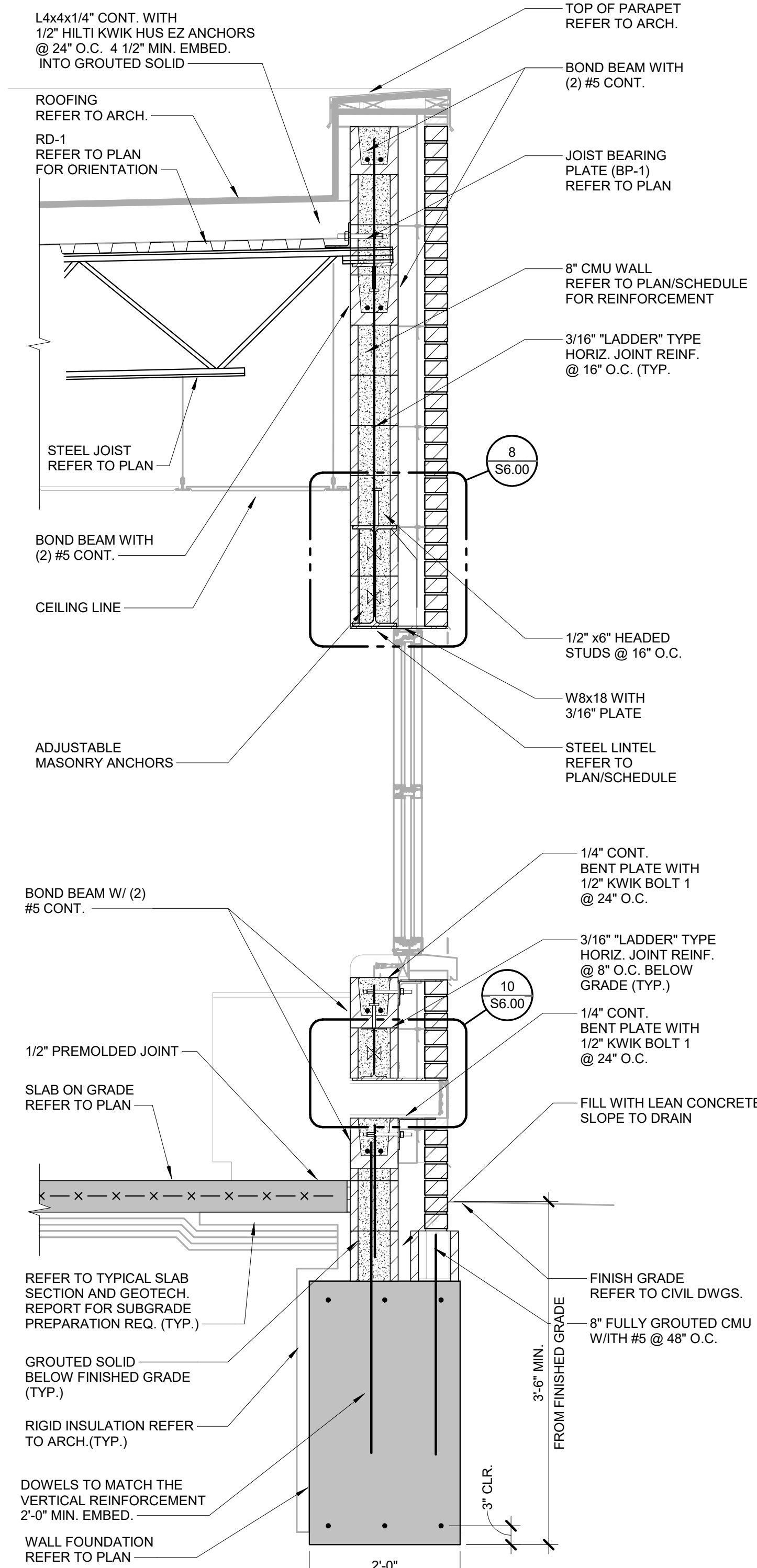
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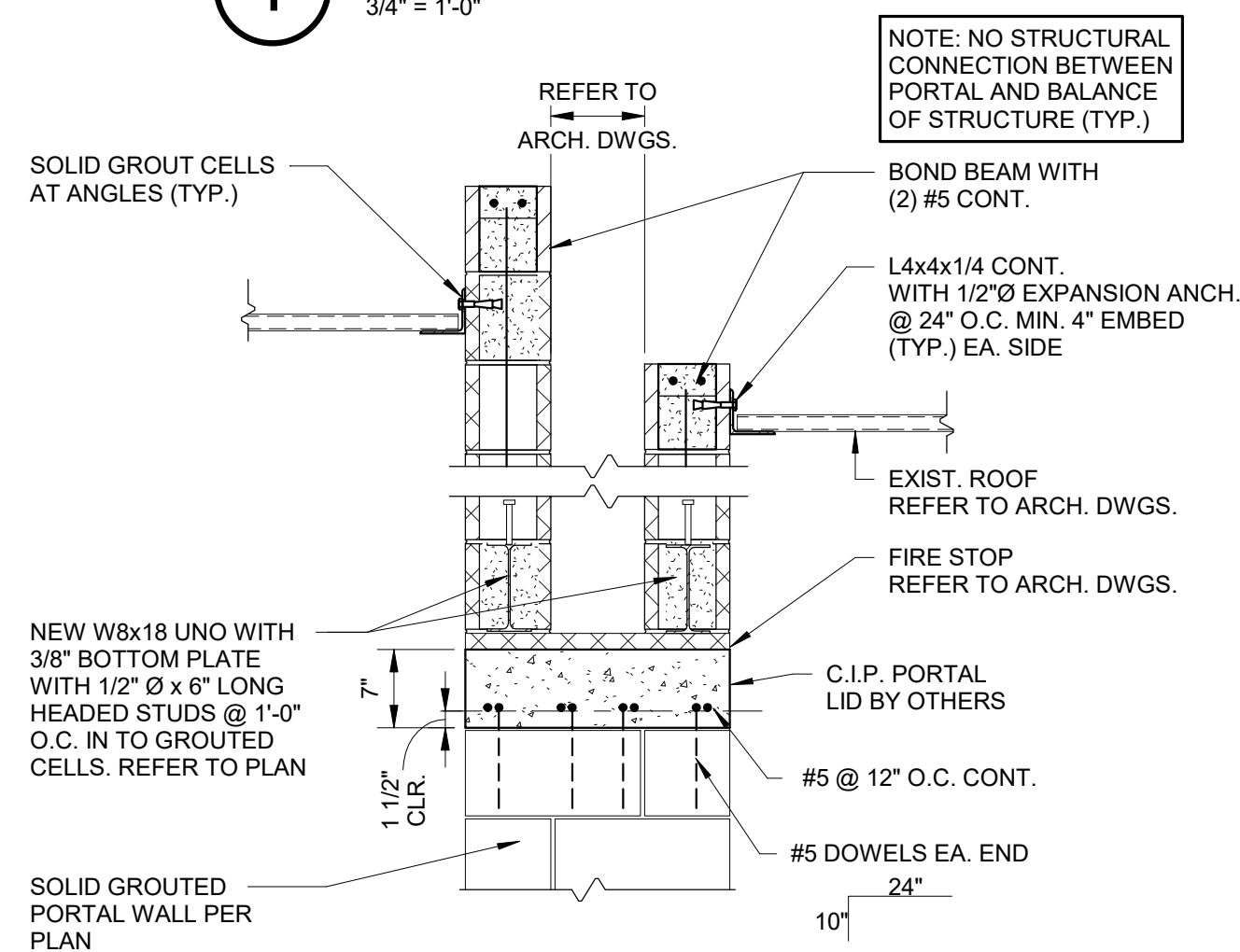
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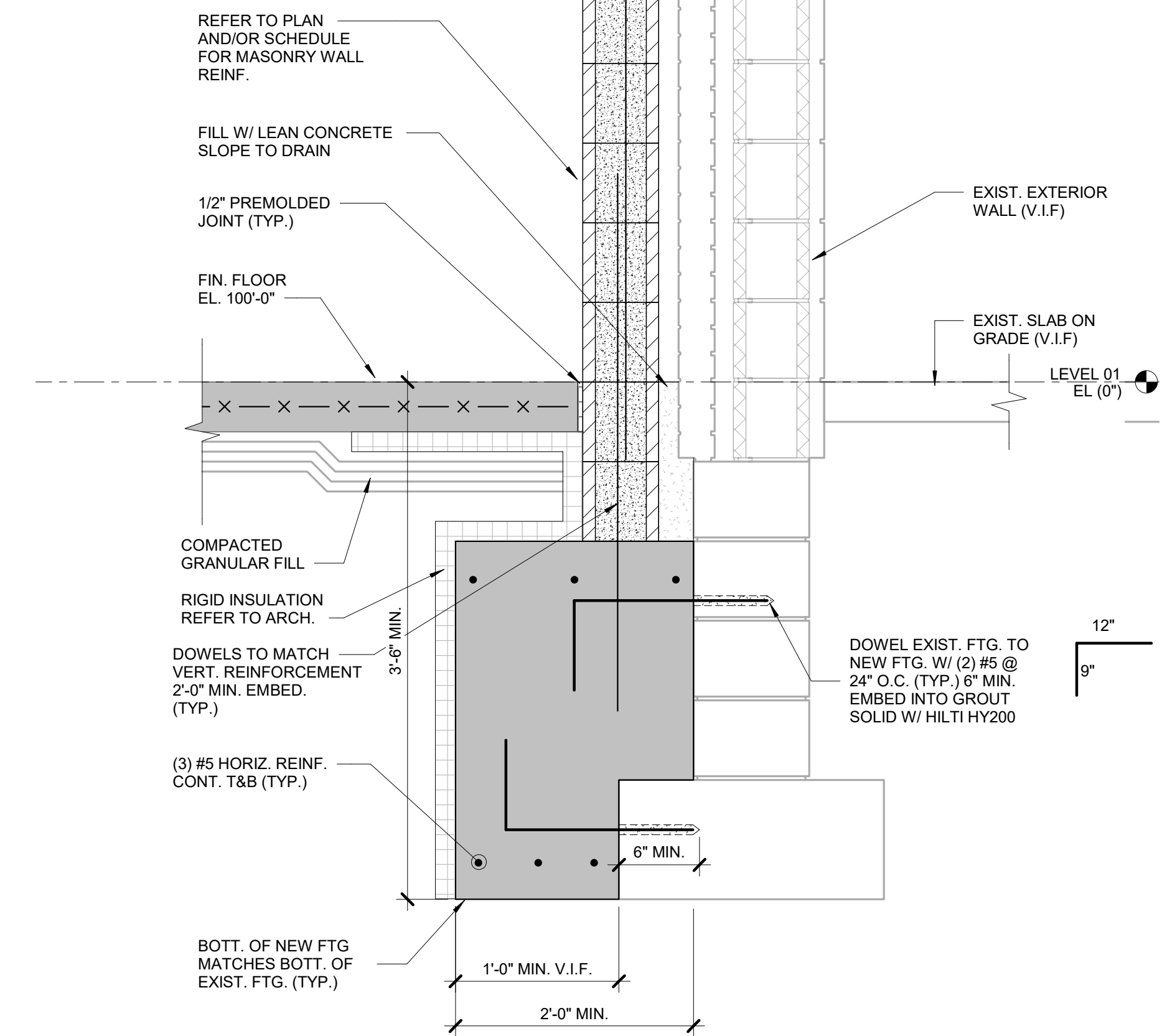
1 SECTION
3/4" = 1'-0"



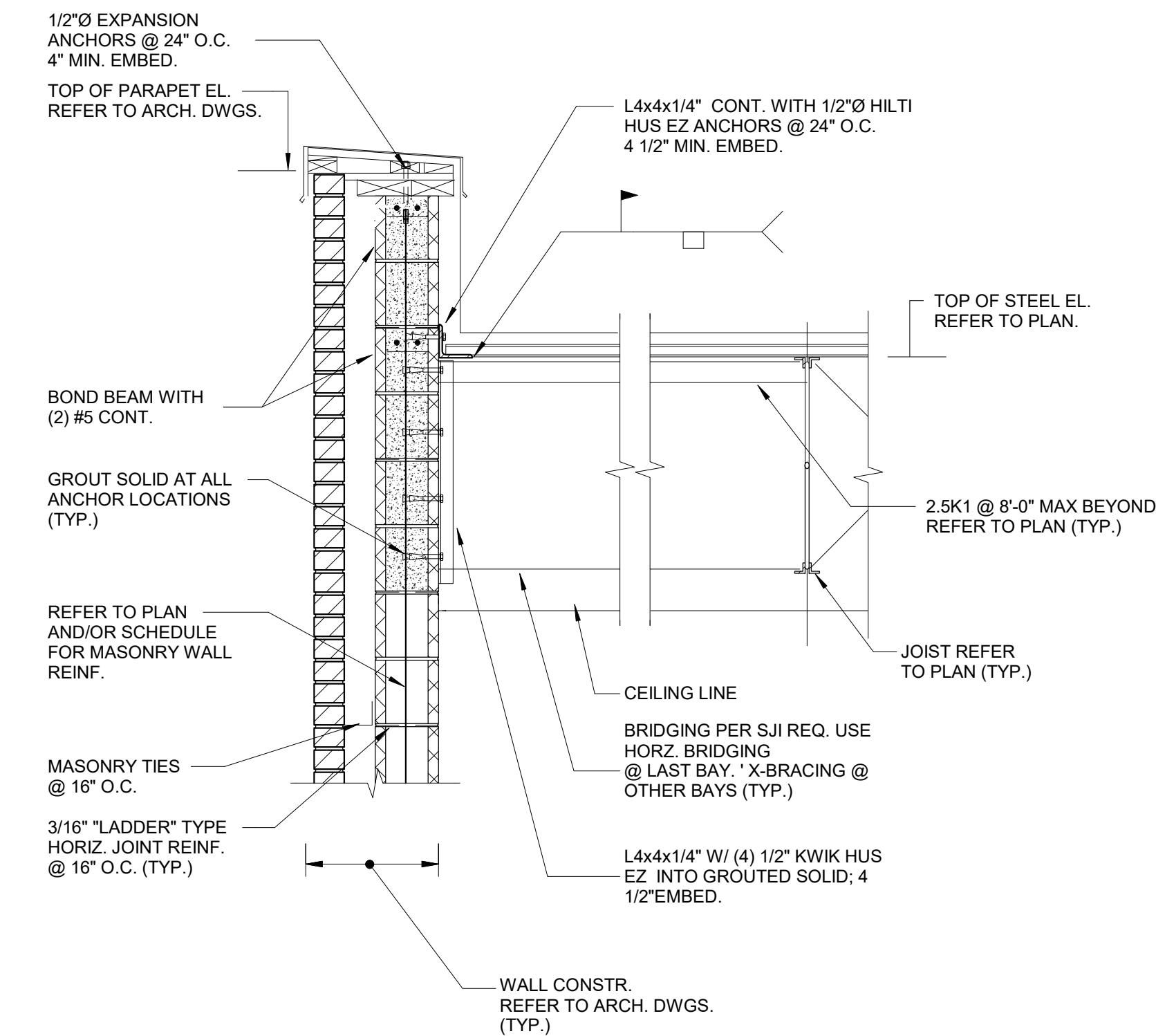
2 SECTION
3/4" = 1'-0"



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



3 SECTION
1" = 1'-0"



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

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REF. SCALE IN INCHES PROJECT #22009942.00

Bidding and Permits	31 July 2023
Owner Review	17 July 2023
Design Development	08 May 2023

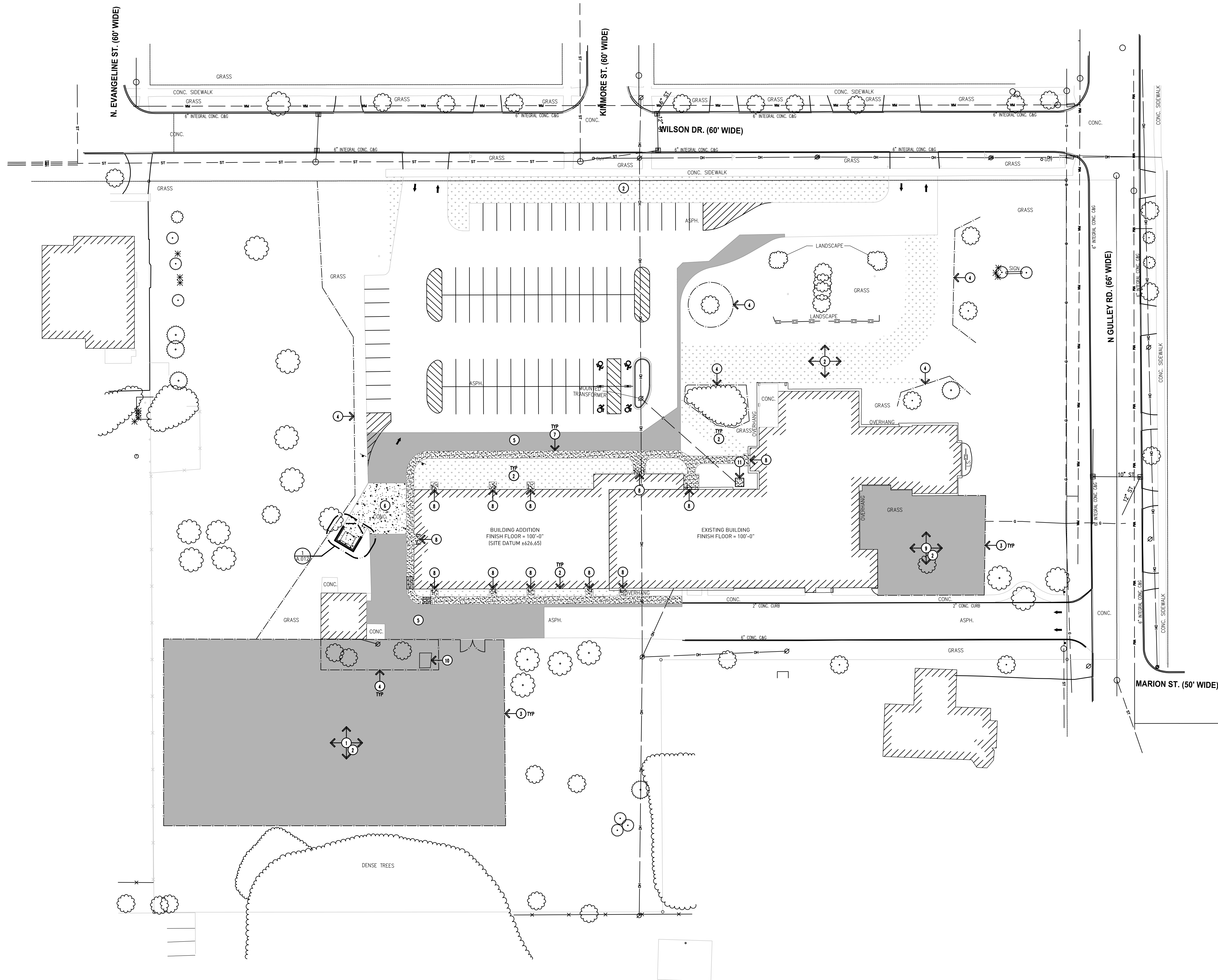
SECTIONS AND DETAILS



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 4321

S7.00



GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. UNLESS NOTED OTHERWISE, ALL LANDSCAPING AND TREES ARE EXISTING TO REMAIN.
- G3. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR DIRECTION.
- G4. 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.)
- G5. DISPOSE OF ALL ITEMS REMOVED OFF SITE PER LOCAL BUILDING AND SAFETY ORDINANCES.
- G6. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED AND FINISHED BACK TO EXISTING CONDITION.
- G7. REFER TO STRUCTURAL DRAWINGS AND ARCHITECTURAL BUILDING SECTIONS FOR EXCAVATION.
- G8. REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR FURTHER INFORMATION.
- G9. CONFORM TO ALL MICHIGAN BARRIER FREE REQUIREMENTS.
- G10. CONFORM TO ALL CITY OF DEARBORN HEIGHTS AND /OR WAYNE COUNTY REQUIREMENTS FOR SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- G11. CONTRACTOR TO MATCH GRADES EXACTLY, ESPECIALLY AT EXISTING CONCRETE SLABS, ETC.
- G12. DRAWING IS DIAGRAMMATIC AND FOR REFERENCE ONLY. REFER TO CIVIL LANDSCAPING DRAWINGS FOR ADDITIONAL INFORMATION.
- G13. ALL REPLACED OVERHEAD WIRES TO BE COORDINATED BY CONTRACTOR WITH THE LOCAL UTILITY COMPANY PRIOR TO THE START OF CONSTRUCTION.
- G14. GRADE NEW LAWN AREA AWAY FROM BUILDING MINIMUM 1/4" PER FOOT.
- G15. GRADE TO BE 6" BELOW FINISH FLOOR AT ALL AREAS EXCEPT AT ENTRANCES.

CAUTION!
 "JUNE SPENCER MEMORIAL GARDEN" SIGN TO BE REMOVED, PROTECTED, AND STORED FOR REINSTALLATION AT THE COMPLETION OF THE PROJECT.

DRAWING NOTES:

- 1. CONTRACTOR STAGING AREA. SIZE TO BE DETERMINED BY CONTRACTOR AND OWNER DURING A PRE-CONSTRUCTION MEETING.
- 2. PROVIDE 4" TOPSOIL AND SEED TO RESTORE LAWN TO PRE-CONSTRUCTION CONDITION, AREA AT LOCATION OF CONSTRUCTION OPERATIONS (WHETHER INDICATED OR OTHER AREAS DISTURBED BY CONSTRUCTION).
- 3. CONSTRUCTION FENCE FOR STUDENT PROTECTION.
- 4. CONSTRUCTION FENCE FOR LANDSCAPING AND SITE PROTECTION. REFER TO SITE LANDSCAPING PLAN FOR MORE INFORMATION.
- 5. ASPHALT PAVING - REFER TO CIVIL FOR MORE INFORMATION.
- 6. CONCRETE DRIVE - REFER TO CIVIL FOR MORE INFORMATION.
- 7. CONCRETE WALK - REFER TO CIVIL AND LANDSCAPE FOR MORE INFORMATION.
- 8. CONCRETE FROST SLAB - REFER TO SECTIONS FOR MORE INFORMATION.
- 9. TEMPORARY PLAY AREA FOR STUDENTS.
- 10. PLAY STRUCTURE EXISTING TO REMAIN - CONTRACTOR TO PROVIDE SITE PROTECTION.
- 11. CONCRETE PAD FOR TRANSFORMER. SIZE AS DETERMINED BY TRANSFORMER MANUFACTURE. REFER TO ELECTRICAL, CIVIL, AND LANDSCAPING FOR MORE INFORMATION.



Bidding and Permits: 31 July 2023



Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

A0.11

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

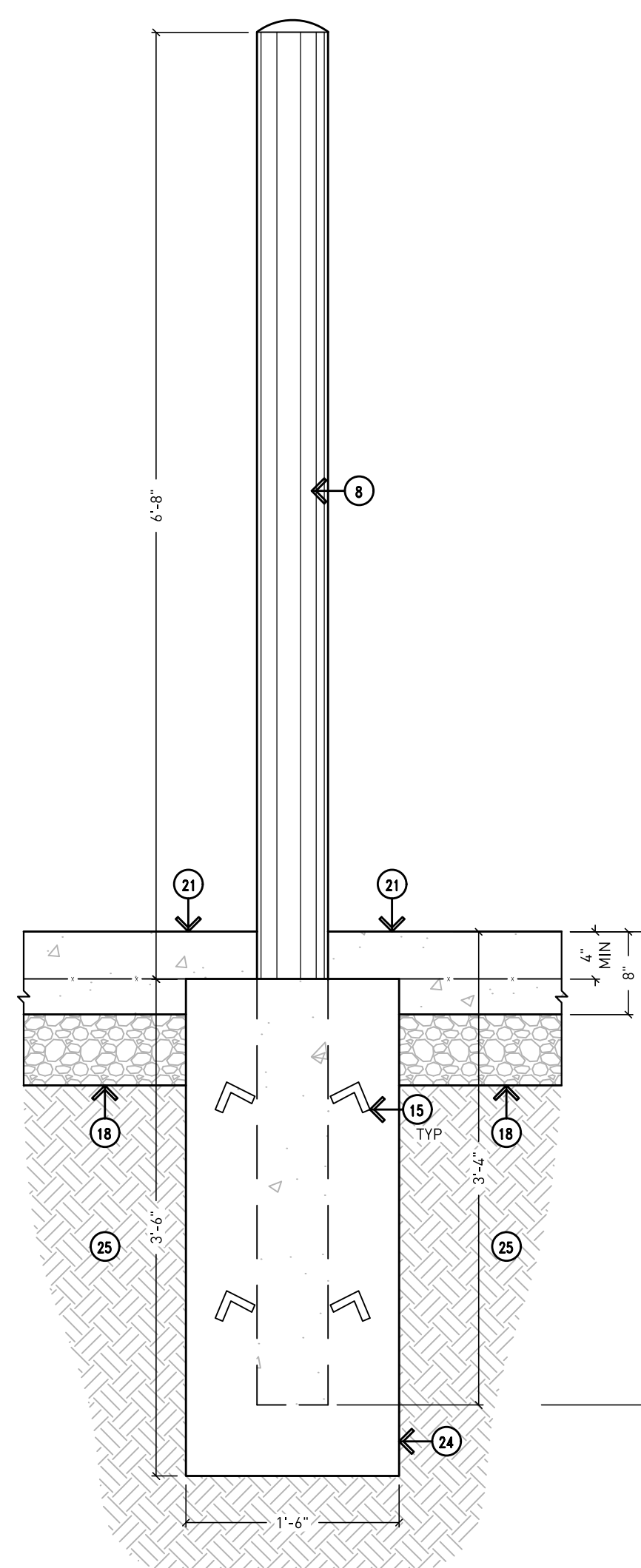


GENERAL NOTES:

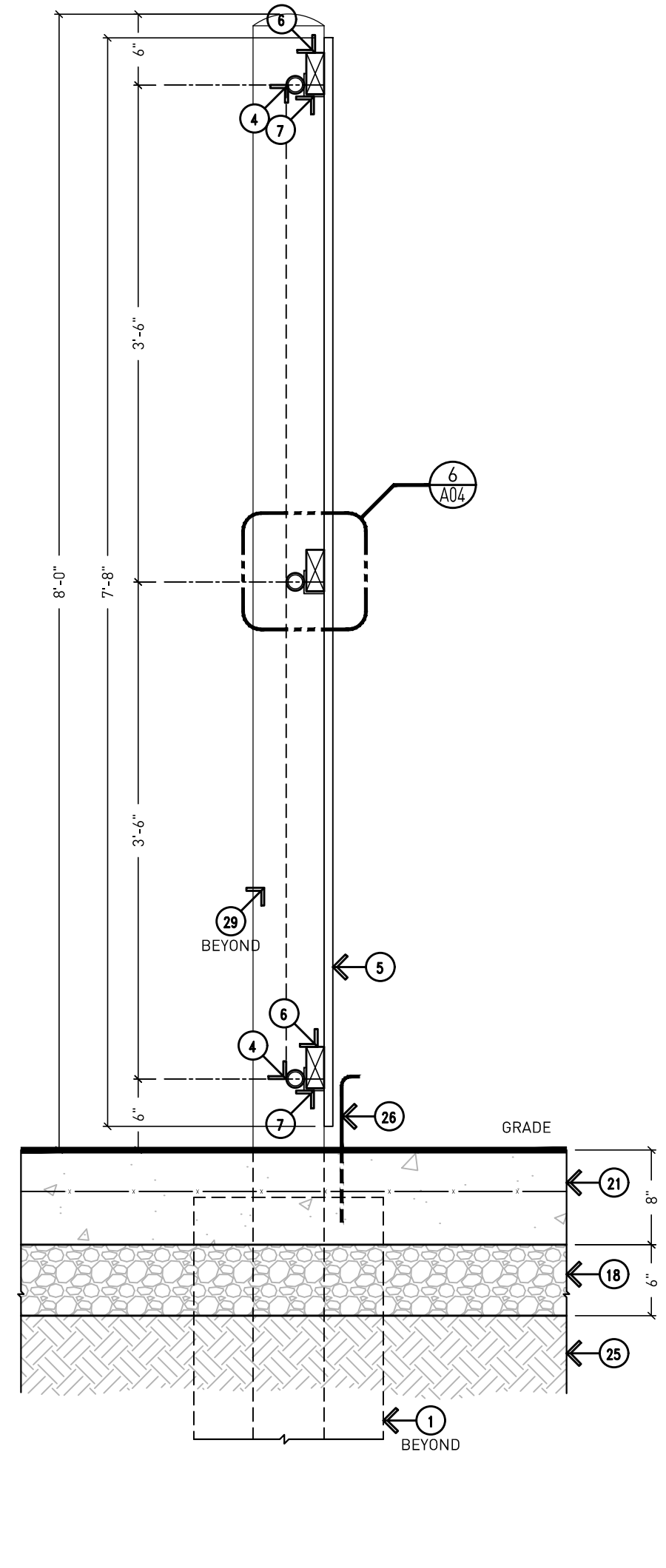
G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

DRAWING NOTES:

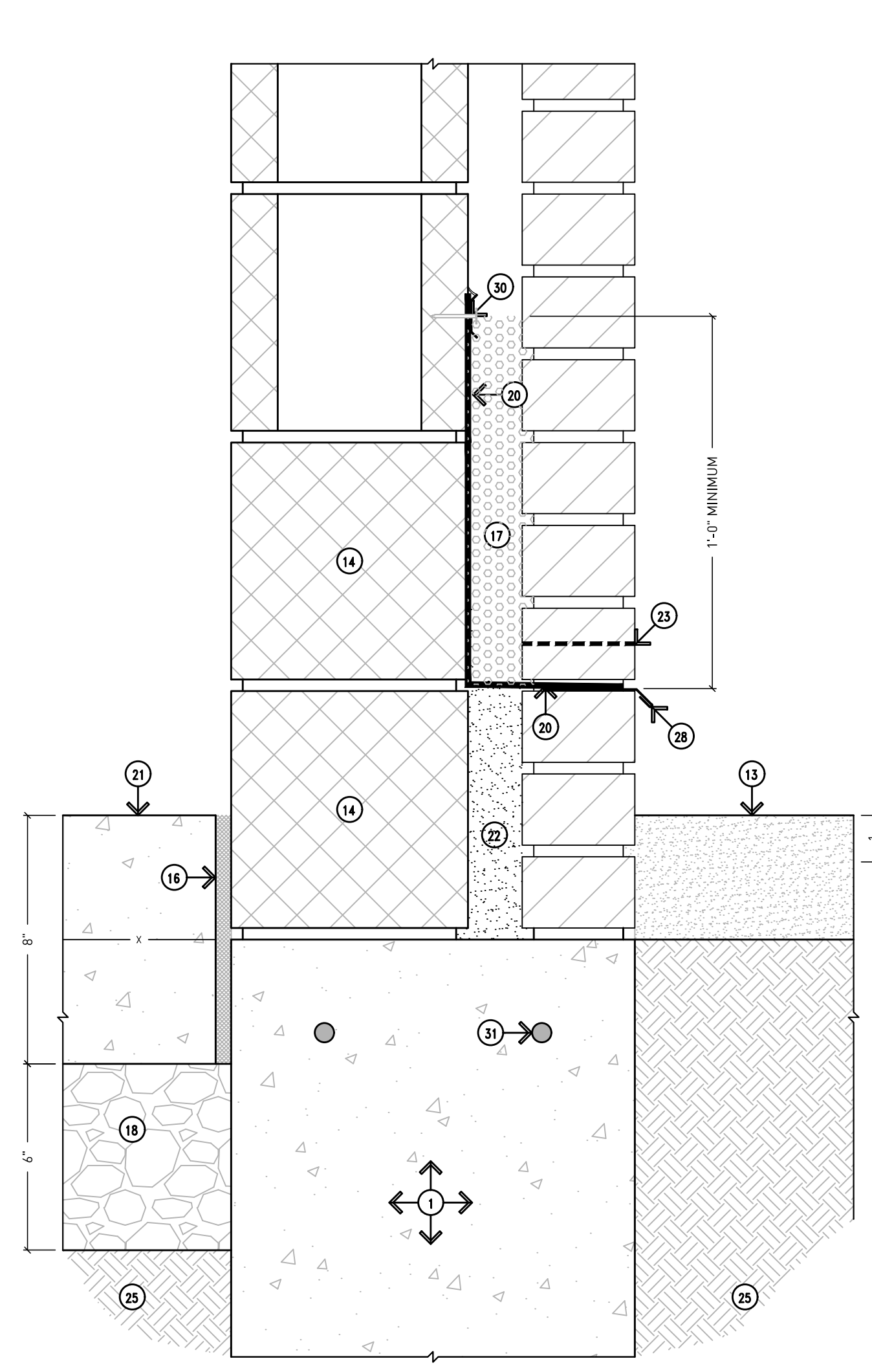
1. CONCRETE FOUNDATION - MINIMUM 3'-6" BELOW FINISH GRADE WITH (2) #5 TOP AND BOTTOM (MINIMUM 3" COVER).
2. 8"x8"x16" CMU SEAL & PAINT EXPOSED SURFACE. PROVIDE HORIZONTAL LADDER REINFORCING @ 16" O.C.
3. 4" BRICK VENEER WITH GALV. METAL TIES TO CMU BACK-UP WALL. MATCH EXISTING BUILDING BRICK. REFER TO SHEET A304 FOR FURTHER INFORMATION. PROVIDE WEEPHOLES AT 2'-8" O.C.
4. 1 1/2" O.D. GALVANIZED STEEL FRAME.
5. 3/4"x6" THICK DOG-EARED CEDAR PLANK (ROUGH SAWN).
6. 2X4 NOM. TREATED WOOD.
7. 1 3/4" x 1 1/2" x 3/16 GALVANIZED STEEL ANGLE WELDED TO GATE FRAME.
8. 6" ROUND STEEL BOLLARD POST, FILLED SOLID WITH CONCRETE.
9. ASPHALT PAVING. REFER TO CIVIL FOR FURTHER INFORMATION.
10. #4 ANCHOR ROD - 16" MIN. INTO CMU SOLID GROUT CORES.
11. PREFINISHED METAL CAP WITH SLOPED TOP OVER TWO LAYERS 3/4" PRESERVATIVE TREATED PLYWOOD BLOCKING.
12. EPDM WATERPROOF FLASHING ACROSS ENTIRE TOP.
13. PROVIDE 4" TOPSOIL AND SEED.
14. 8"x8"x16" SOLID CMU BLOCK COURSE, SEAL & PAINT EXPOSED SURFACE.
15. METAL ANCHORS.
16. 1/2" PREMOLDED EXPANSION JOINT.
17. WASHED PEA STONE (FOR DRAINAGE).
18. 6" MIN. COMPACTED AGGREGATE BASE.
19. MASONRY WATERPROOFING.
20. FLEXIBLE FLASHING MEMBRANE.
21. 8" REINFORCED CONCRETE DUMPSTER PAD OVER 6" COMPACTED AGGREGATE BASE.
22. GROUT AREA SOLID BELOW FLASHING.
23. 3/8"x1-1/2" PLASTIC WEEP HOLES @ 2'-8" O.C.
24. 18" DIAMETER CONCRETE POST FOUNDATION, 42" DEEP MINIMUM.
25. EXISTING SUBGRADE - COMPACTED.
26. VERTICAL DROP ROD TO SECURE GATE CLOSED (2 REQUIRED).
27. GALVANIZED GATE STOP PIPE FOR VERTICAL DROP BARS (MINIMUM 18" LONG). COORDINATE SIZE REQUIRED WITH DROP ROD.
28. STAINLESS STEEL METAL DRIP EDGE FLASHING WITH HEMMED EDGE (28 GA.).
29. 6" ROUND STEEL GATE POST.
30. TERMINATION BAR.
31. #4 CONTINUOUS REINFORCING BARS.



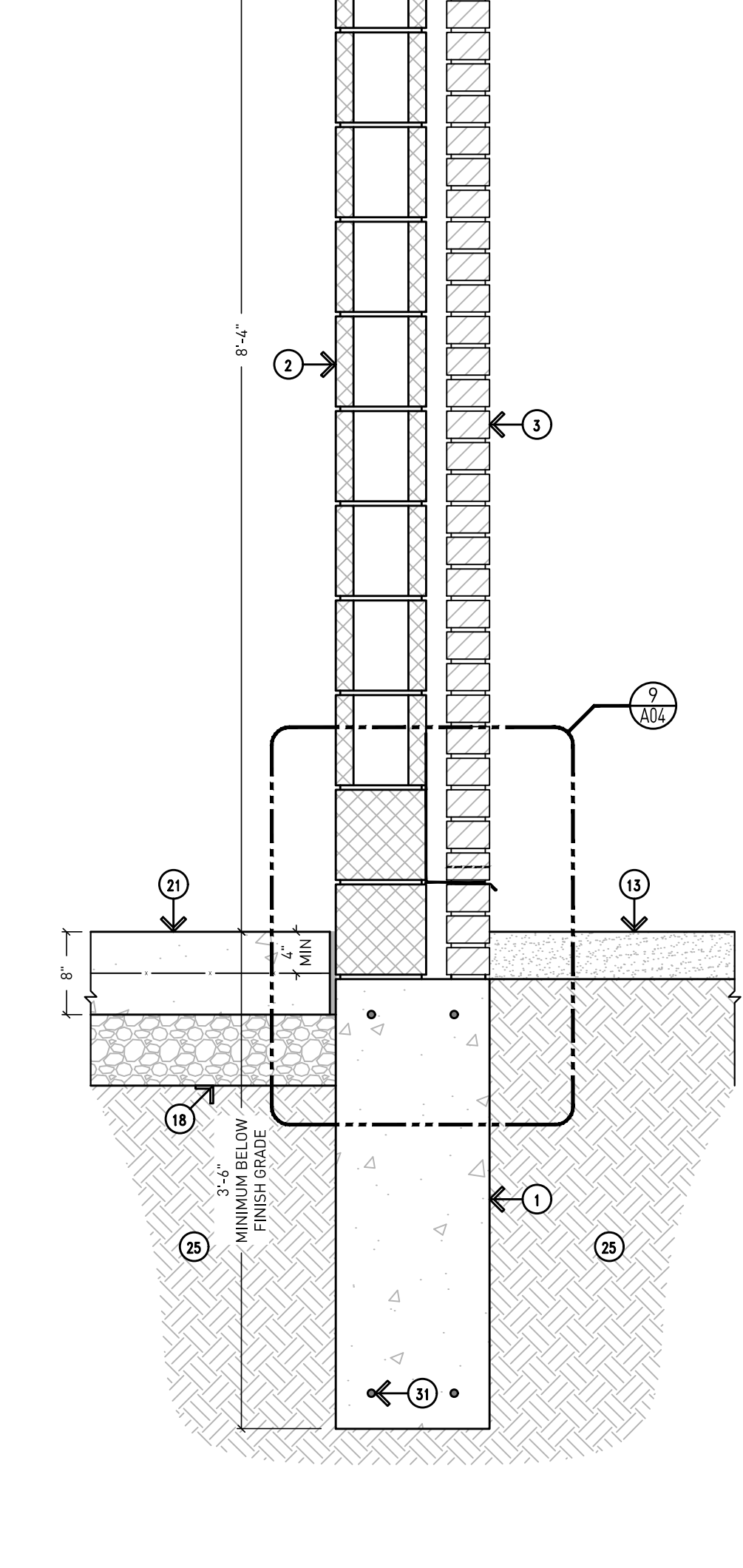
11 Pipe Bollard Detail
A0.12 1" = 1'-0"



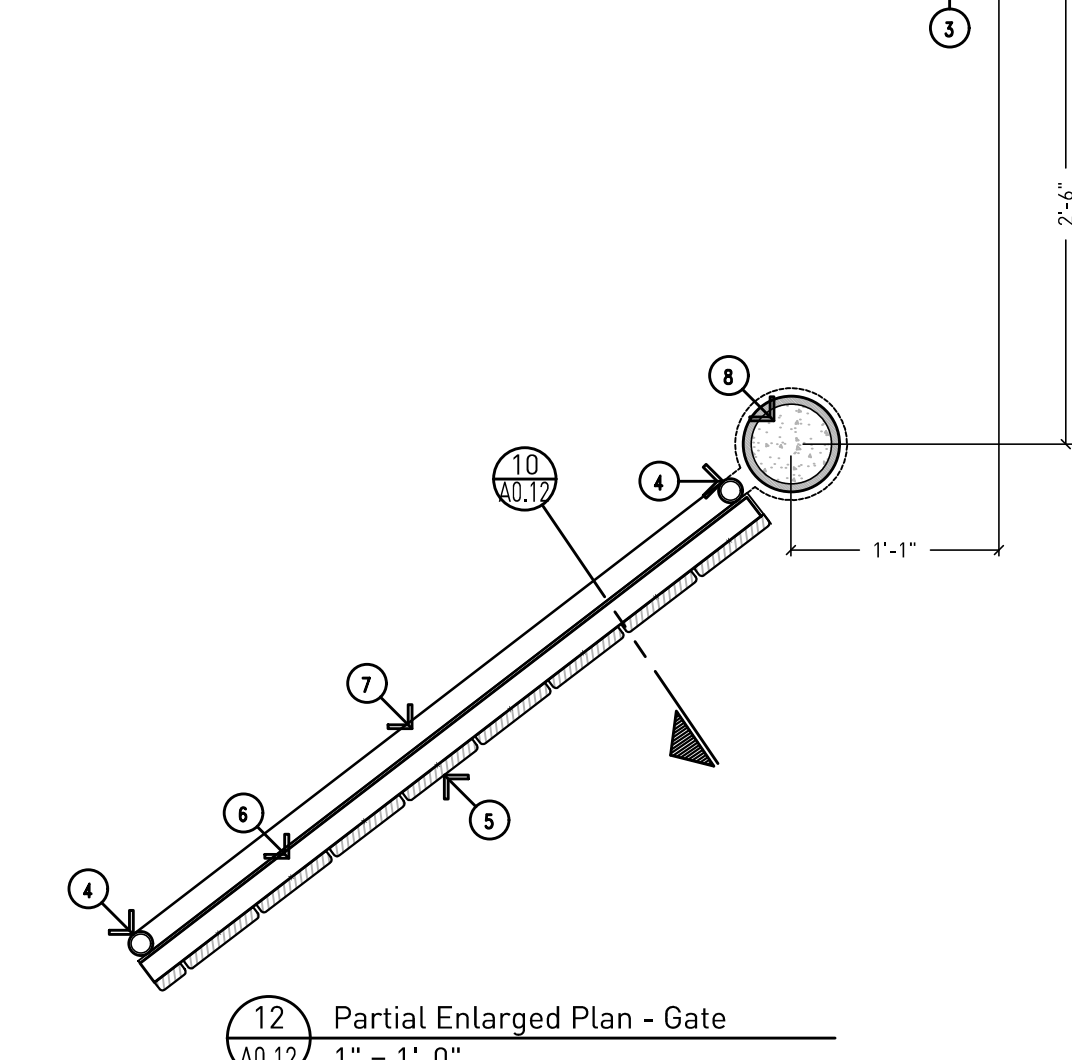
10 Section @ Gate
A0.12 1" = 1'-0"



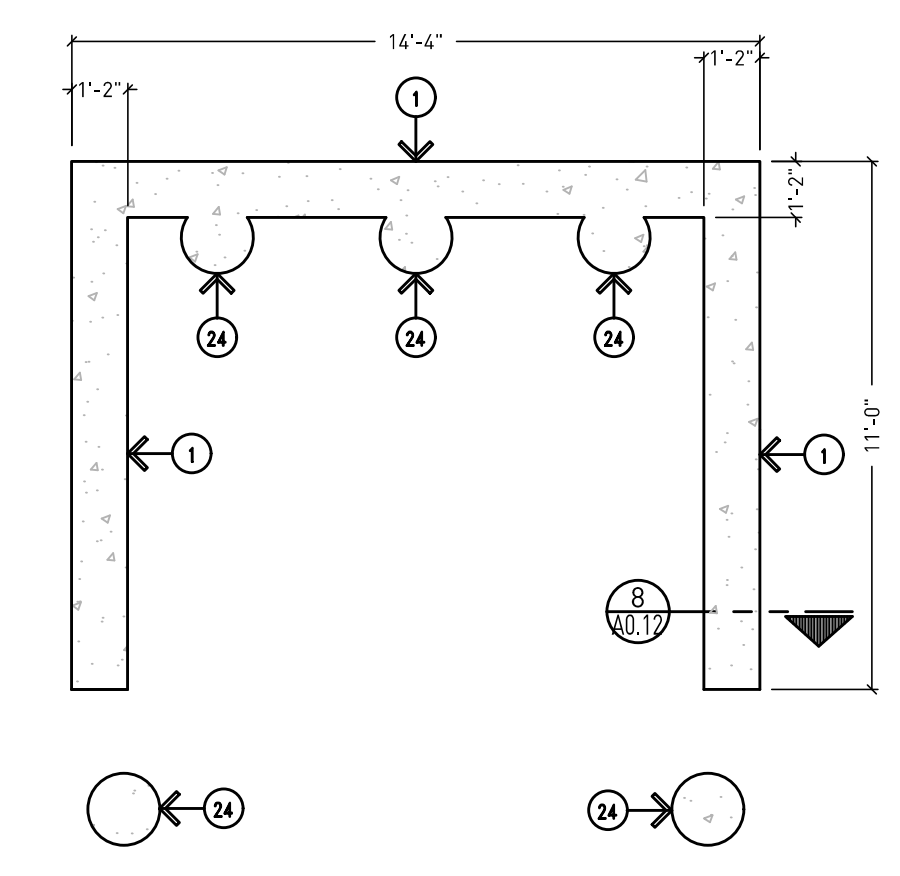
9 Enlarged Wall Base Detail
A0.12 3" = 1'-0"



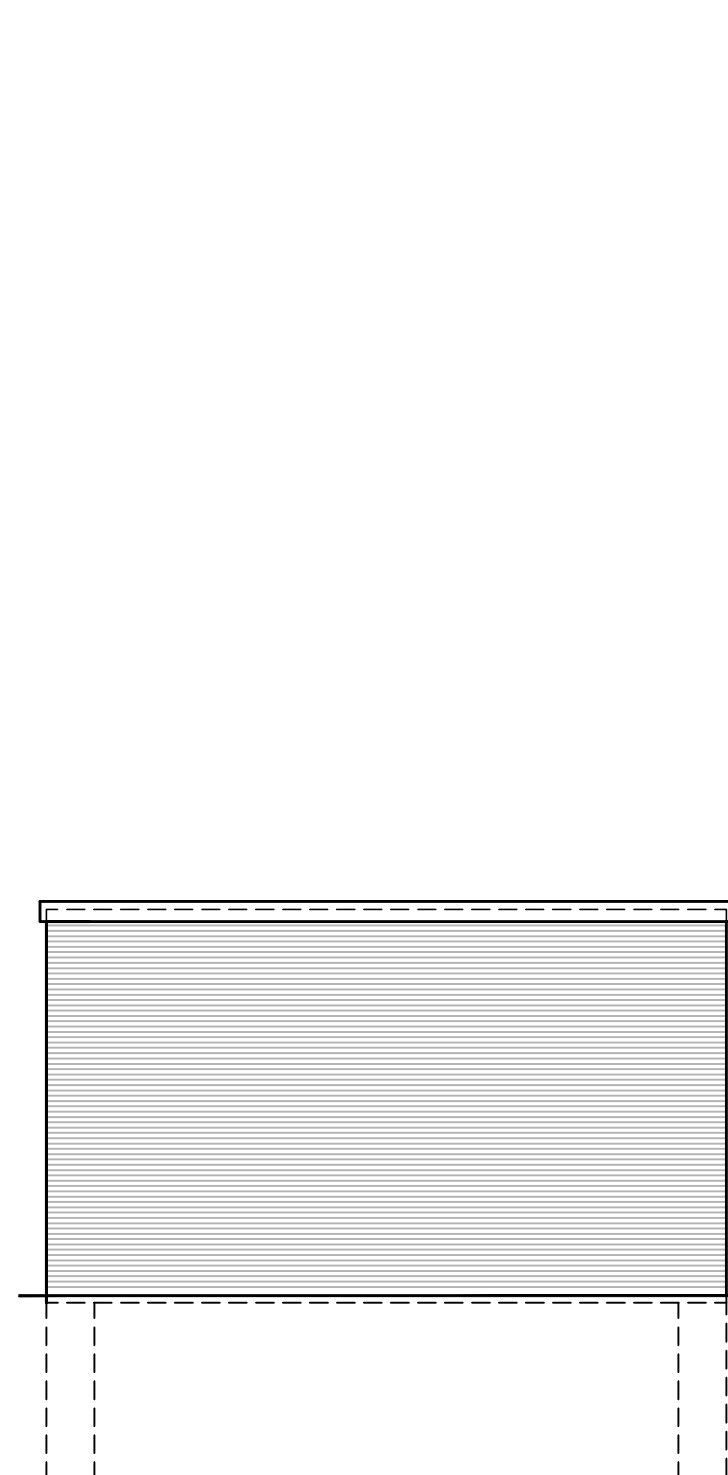
8 Wall Section @ Dumpster
A0.12 1" = 1'-0"



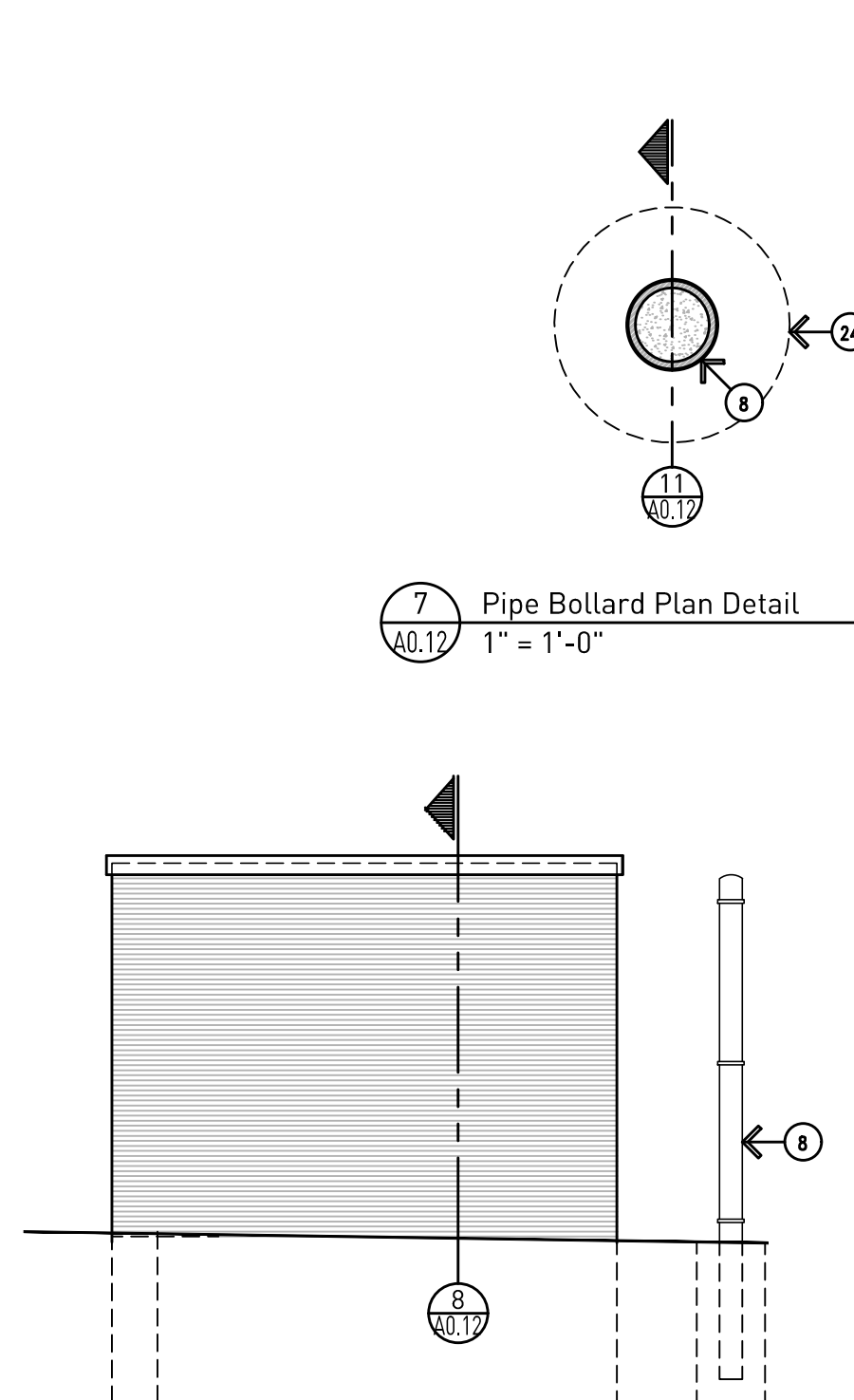
12 Partial Enlarged Plan - Gate
A0.12 1" = 1'-0"



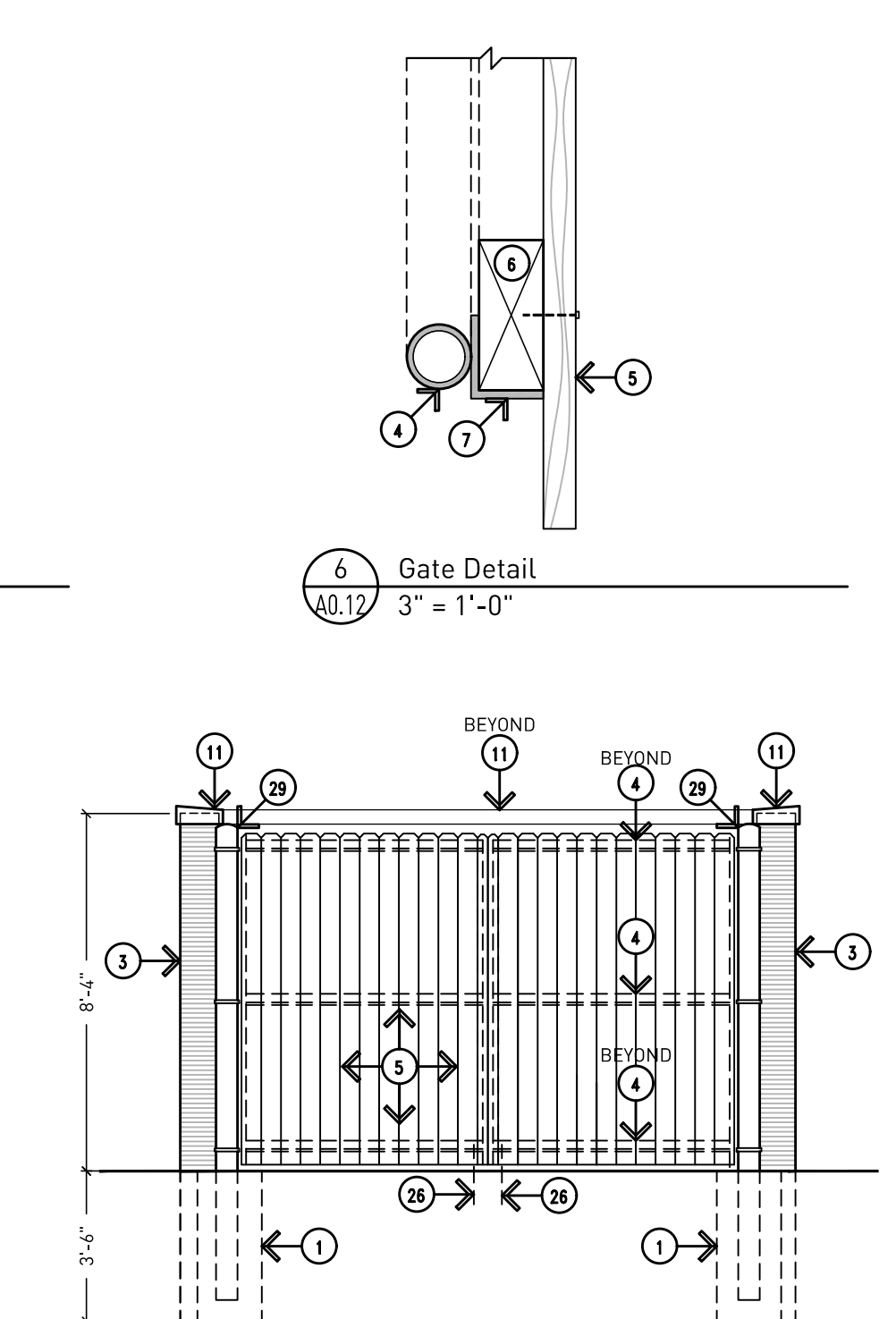
1a Dumpster Enclosure Foundation Plan
A0.12 1/4" = 1'-0"



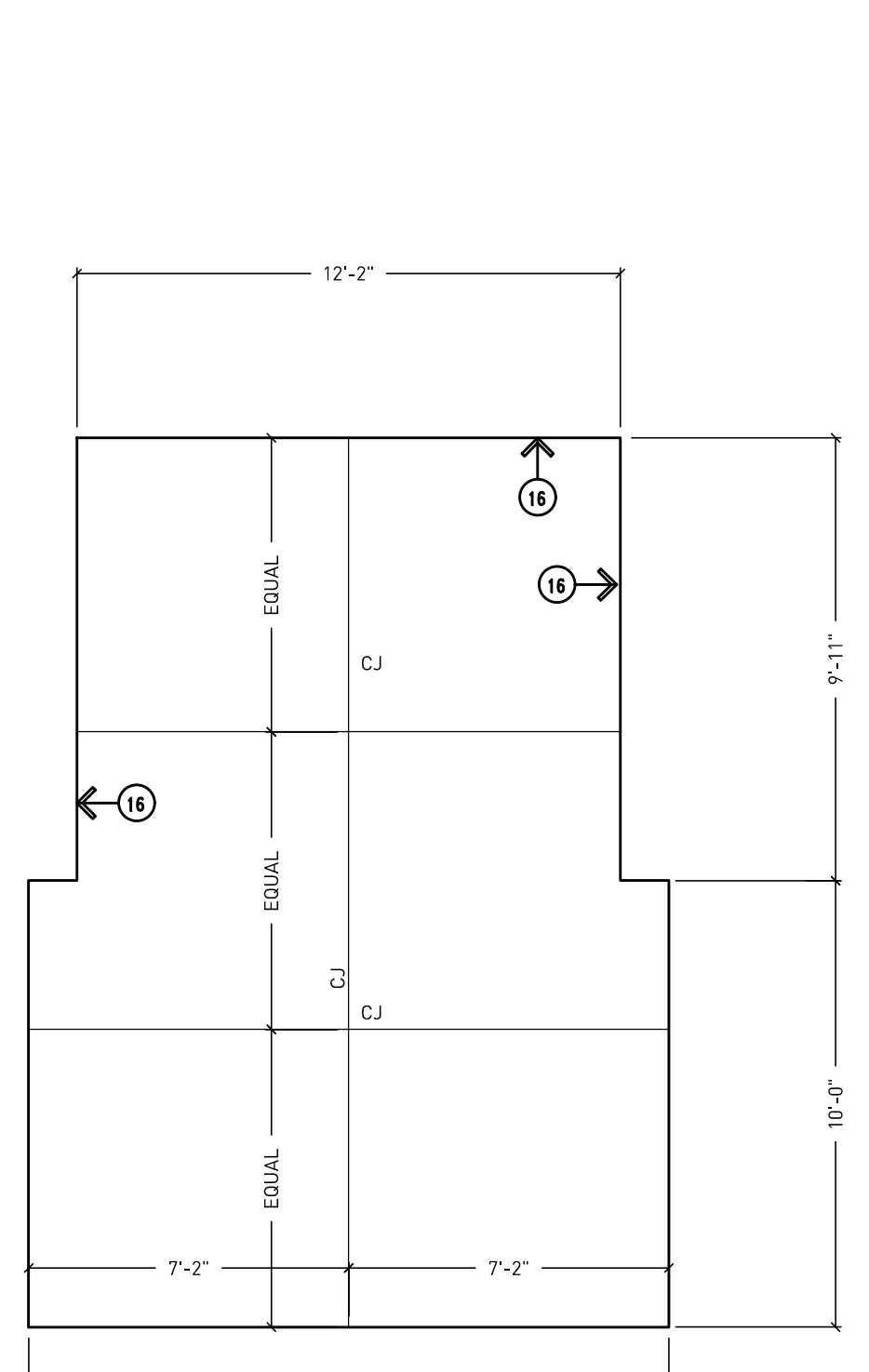
5 Rear Elevation
A0.12 1/4" = 1'-0"



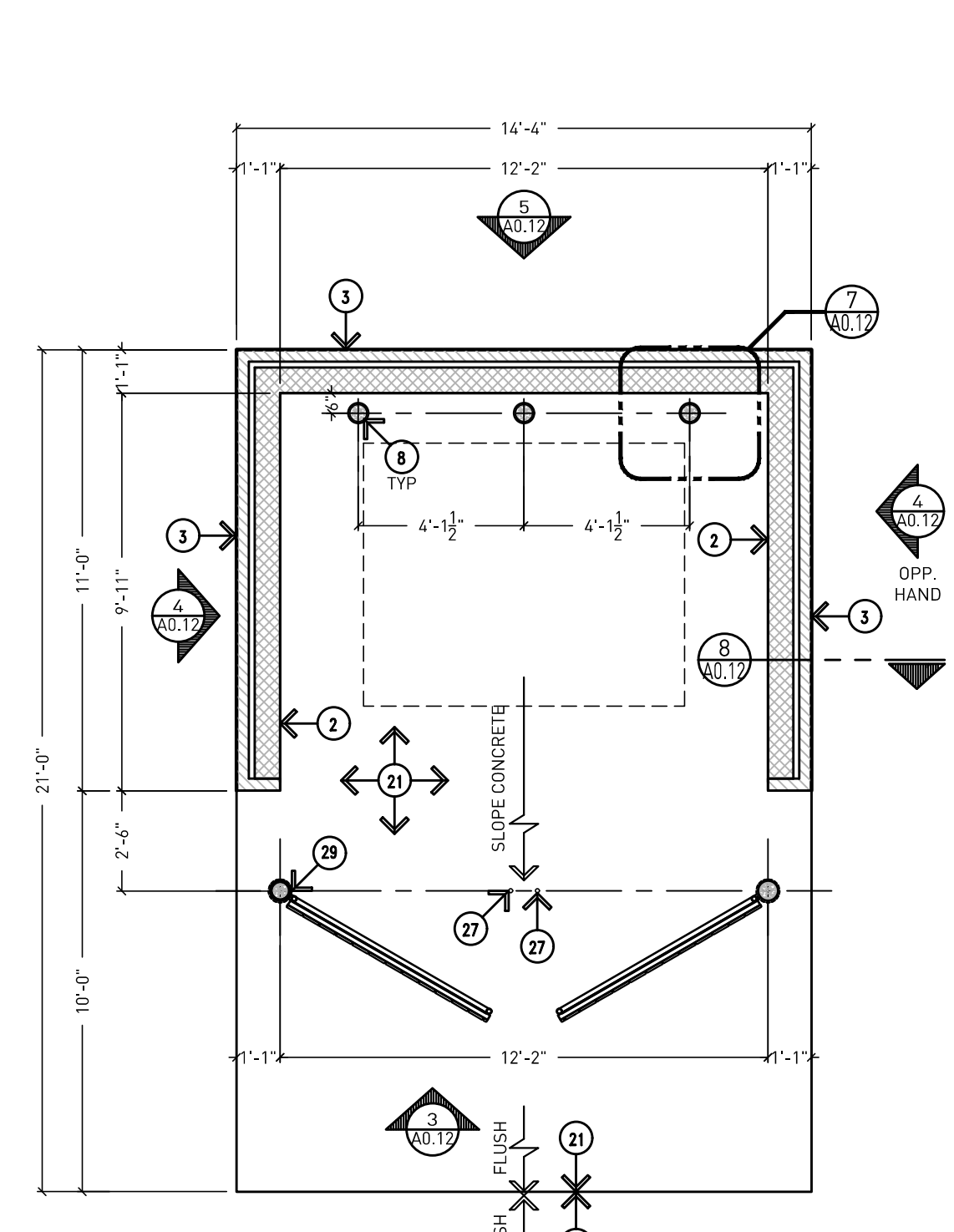
4 Side Elevation
A0.12 1/4" = 1'-0"



3 Front Elevation
A0.12 1/4" = 1'-0"



2 Slab Plan
A0.12 1/4" = 1'-0"



1 Dumpster Enclosure Plan
A0.12 1/4" = 1'-0"



Bidding and Permits: 31 July 2023

Dumpster Enclosure Plan & Details

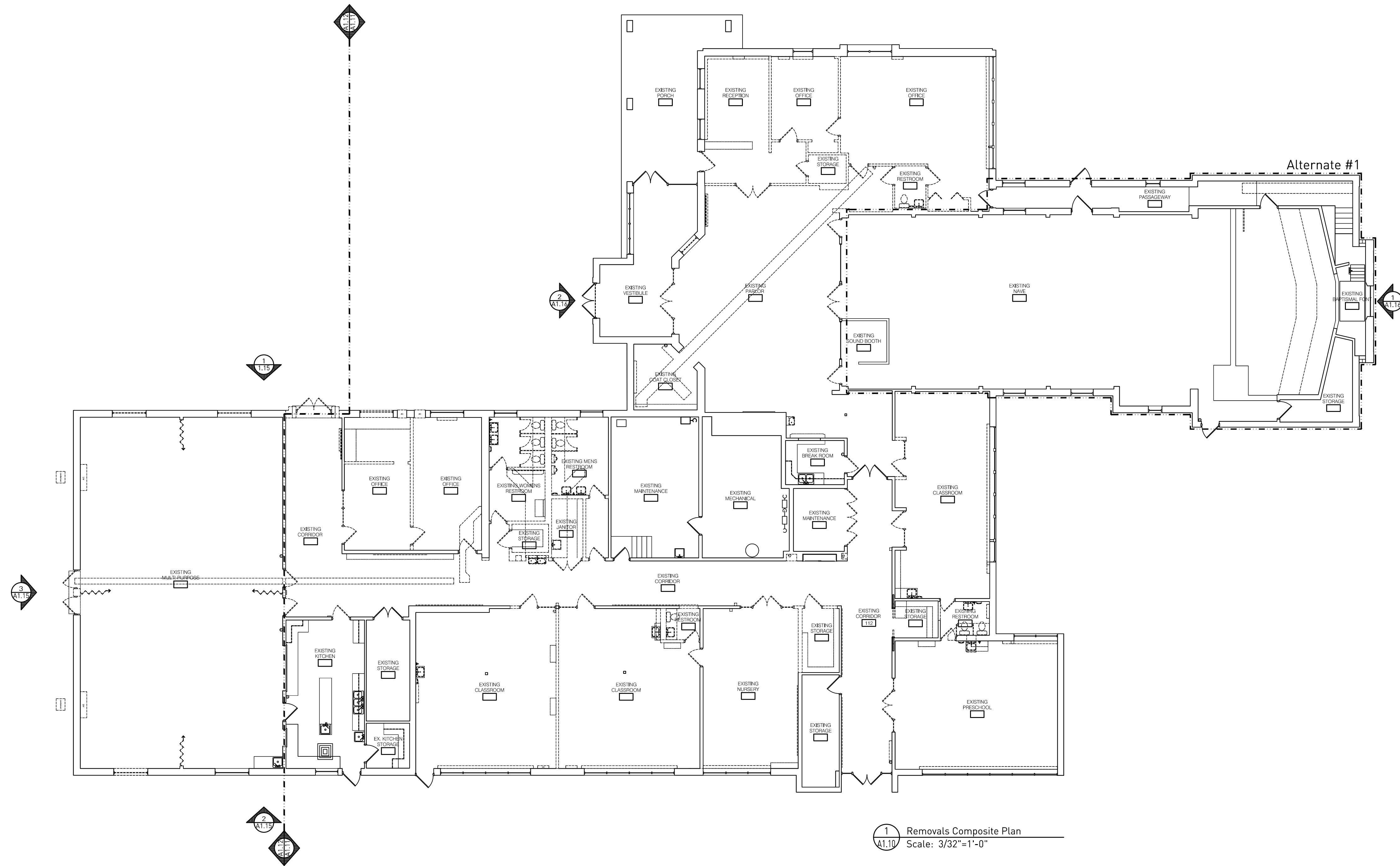
EHRESMAN ARCHITECTS
ehresmanarchitects.com

Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221 **A0.12**

GENERAL REMOVAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. COMPOSITE PLAN ISSUED FOR REFERENCE ONLY.
- G3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.



Bidding and Permits: 31 July 2023



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A1.10



REMOVAL NOTES CONTINUED:

- R20. EXISTING MIRROR.
- R21. EXISTING CHANGING TABLE.
- R22. EXISTING PAPER TOWEL DISPENSER.
- R23. EXISTING SOAP DISPENSER.
- R24. EXISTING SHELVEING.
- R25. EXISTING HOOKS.
- R26. EXISTING HAND SANITIZER DISPENSER.
- R27. EXISTING CORK BOARD.
- R28. EXISTING ROOM SIGNS.
- R29. EXISTING FIRE EXTINGUISHER.
- R30. SAW CUT EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW PLUMBING RUNS.
- R31. EXISTING WATER METER - REFER TO MECHANICAL.
- R32. EXISTING DOOR, FRAME AND SIDELITES, HARDWARE, ETC. COMPLETE.
- R33. MOVEABLE PARTITION WALL, TRACK, ETC. COMPLETE.

GENERAL REMOVAL NOTES:

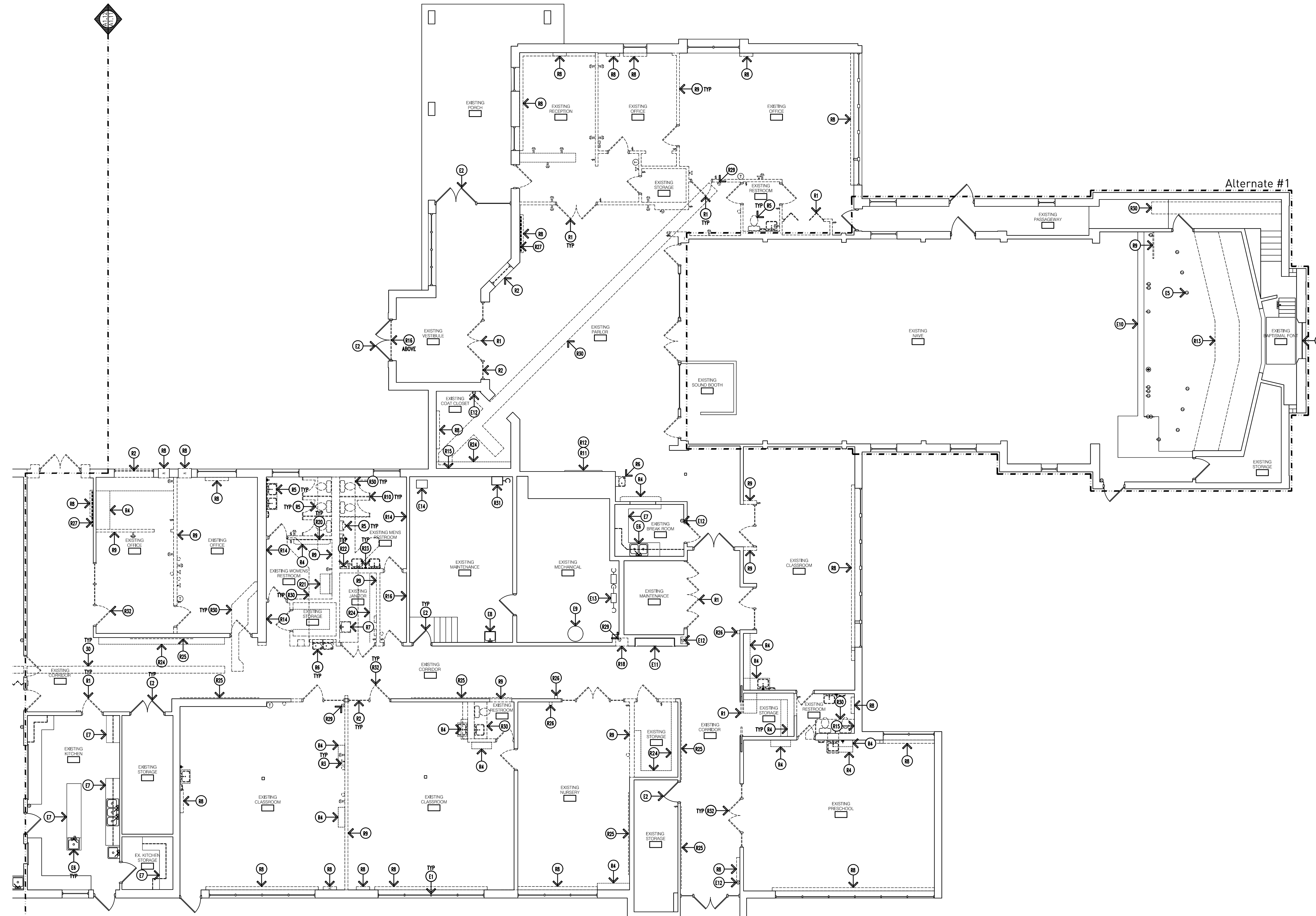
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- G2. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G3. PROTECT ALL EXISTING ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G4. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED AND FINISHED BACK TO EXISTING CONDITION.
- G5. CONTRACTOR TO COORDINATE BUILDING ACCESS, CONSTRUCTION ACCESS, ETC. WITH THE OWNERS REPRESENTATIVE PRIOR TO COMMENCING ON THE WORK.
- G6. CONFORM TO ALL MICHIGAN BARRIER FREE REQUIREMENTS.
- G7. CONTRACTOR TO RECONNECT ANY WIRING THAT IS NEEDED TO MAINTAIN OPERATION OF OUTLETS, LIGHTS, ETC. THAT ARE CONNECTED TO FIXTURES OR DEVICES TO BE REMOVED.
- G8. ELECTRICAL (OUTLETS, ETC.) TO REMAIN, UNLESS OTHERWISE NOTED. TERMINATE WIRES/AS REQUIRED IN A CONCEALED LOCATION OR REMOVE BACK TO NEAREST JUNCTION BOX.
- G9. ALL WALLS, DOORS, WINDOWS, PLUMBING FIXTURES, PIPING, ETC. ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- G10. DISPOSE OF ALL ITEMS REMOVED OFF SITE PER LOCAL BUILDING AND SAFETY ORDINANCES. ANY ITEM REQUESTED BY CRESTWOOD TO BE SALVAGED SHALL BE RETURNED TO OWNER.
- G11. DO NOT DISTURB EXISTING UTILITIES TO REMAIN. USE EVERY PRECAUTION TO ENSURE SAFE REMOVAL WORK. INSPECT EXISTING WORK FOR POSSIBLE UNUSUAL CONDITIONS.
- G12. COORDINATE ALL REMOVAL WORK (ARCHITECTURAL REMOVAL WORK, ELECTRICAL REMOVAL WORK, MECHANICAL REMOVAL WORK, ETC.)
- G13. RELOCATE, REMOVE AND REPLACE OR RE-SUPPORT ANY MECHANICAL OR ELECTRICAL ITEMS IN THE WAY OF NEW CONSTRUCTION OPERATIONS.
- G14. REMOVE ALL ELECTRICAL DEVICES ON WALLS TO BE DEMOLISHED (LIGHTING, POWER, FIRE ALARM, P/A, ETC.) INCLUDING CEILING MOUNTED LIGHTING. REMOVE LIGHT CONTROLS AND MAINTAIN BRANCH CIRCUIT SERVING LIGHTING FOR RECONNECTION TO NEW LIGHTING. ANY DEVICE LOCATED ON WALL NOT TO BE DEMOLISHED IS TO REMAIN WALLS TO BE DEMOLISHED ARE SHOWN DASHED). REFER TO FLOOR PLANS FOR EXTENT OF WORK.
- G15. REMOVE LIGHT FIXTURES AND CONTROLS. MAINTAIN BRANCH CIRCUIT FOR REUSE.
- G16. REMOVE EXISTING FIRE ALARM SYSTEM COMPLETE (DEVICES AND WIRING). ALL FIRE ALARM DEVICES AND WIRING INDICATED OR NOT INDICATED TO BE REMOVED.
- G17. NOT ALL NOTES MAY APPLY TO THIS SHEET.

EXISTING TO REMAIN:

- E1. WINDOW SYSTEM.
- E2. DOOR.
- E3. FIRE ALARM.
- E4. SPEAKER.
- E5. ELECTRICAL DEVICES, CONDUIT, AND WIRING.
- E6. KITCHEN SINK.
- E7. CASEWORK.
- E8. JANITORS SINK.
- E9. HOT WATER TANK.
- E10. PLATFORM.
- E11. EXISTING DISPLAY CASE.
- E12. EXISTING FIRE EXTINGUISHER.
- E13. EXISTING GAS METER.
- E14. EXISTING WATER METER.

REMOVAL NOTES:

- R1. EXISTING DOOR, FRAME, HARDWARE, ETC. COMPLETE.
- R2. EXISTING WINDOW SYSTEM, GLAZING, ETC. COMPLETE.
- R3. EXISTING ELECTRICAL EQUIPMENT -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R4. EXISTING MILLWORK - COUNTER OR STORAGE CABINET.
- R5. EXISTING PLUMBING FIXTURES (TOILET, SINK, ETC.).
- R6. EXISTING DRINKING FOUNTAIN. LOCATION SHOWN FOR REFERENCE ONLY C.F.V.
- R7. EXISTING JANITORS SINK.
- R8. EXISTING HVAC -- REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- R9. EXISTING WALL.
- R10. EXISTING TOILET PARTITION.
- R11. EXISTING MARBLE HEARTH AND SURROUND, MANTEL TO REMAIN.
- R12. EXISTING BRASS INSERT.
- R13. EXISTING RISERS.
- R14. REMOVE GYPSUM BOARD/PLASTER BELOW 6" AFF ON EXISTING WALLS TO REMAIN FOR INSTALLATION OF CEMENT BOARD.
- R15. REMOVE GYPSUM BOARD/PLASTER BELOW 6" AFF ON EXISTING WALLS TO REMAIN FOR INSTALLATION OF CEMENT BOARD.
- R16. REMOVE STAINED GLASS AND FRAME.
- R17. REMOVE STAINED GLASS AND REPLACE WITH CLEAR GLASS.
- R18. EXISTING PHONE SHELF.
- R19. EXISTING CONCRETE SLAB.



1 Removals Floor Plan (Area A)
A1.11 Scale: 1/8"=1'-0"



Bidding and Permits: 31 July 2023

Removals Floor Plan (Area A)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A1.11



REMOVAL NOTES CONTINUED:

- R20. EXISTING MIRROR.
- R21. EXISTING CHANGING TABLE.
- R22. EXISTING PAPER TOWEL DISPENSER.
- R23. EXISTING SOAP DISPENSER.
- R24. EXISTING SHELVING.
- R25. EXISTING HOOKS.
- R26. EXISTING HAND SANITIZER DISPENSER.
- R27. EXISTING CORK BOARD.
- R28. EXISTING ROOM SIGNS.
- R29. EXISTING FIRE EXTINGUISHER.
- R30. SAW CUT EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW PLUMBING RUNS.
- R31. EXISTING WATER METER - REFER TO MECHANICAL.
- R32. EXISTING DOOR, FRAME AND SIDELITES, HARDWARE, ETC. COMPLETE.
- R33. MOVEABLE PARTITION WALL, TRACK, ETC. COMPLETE.

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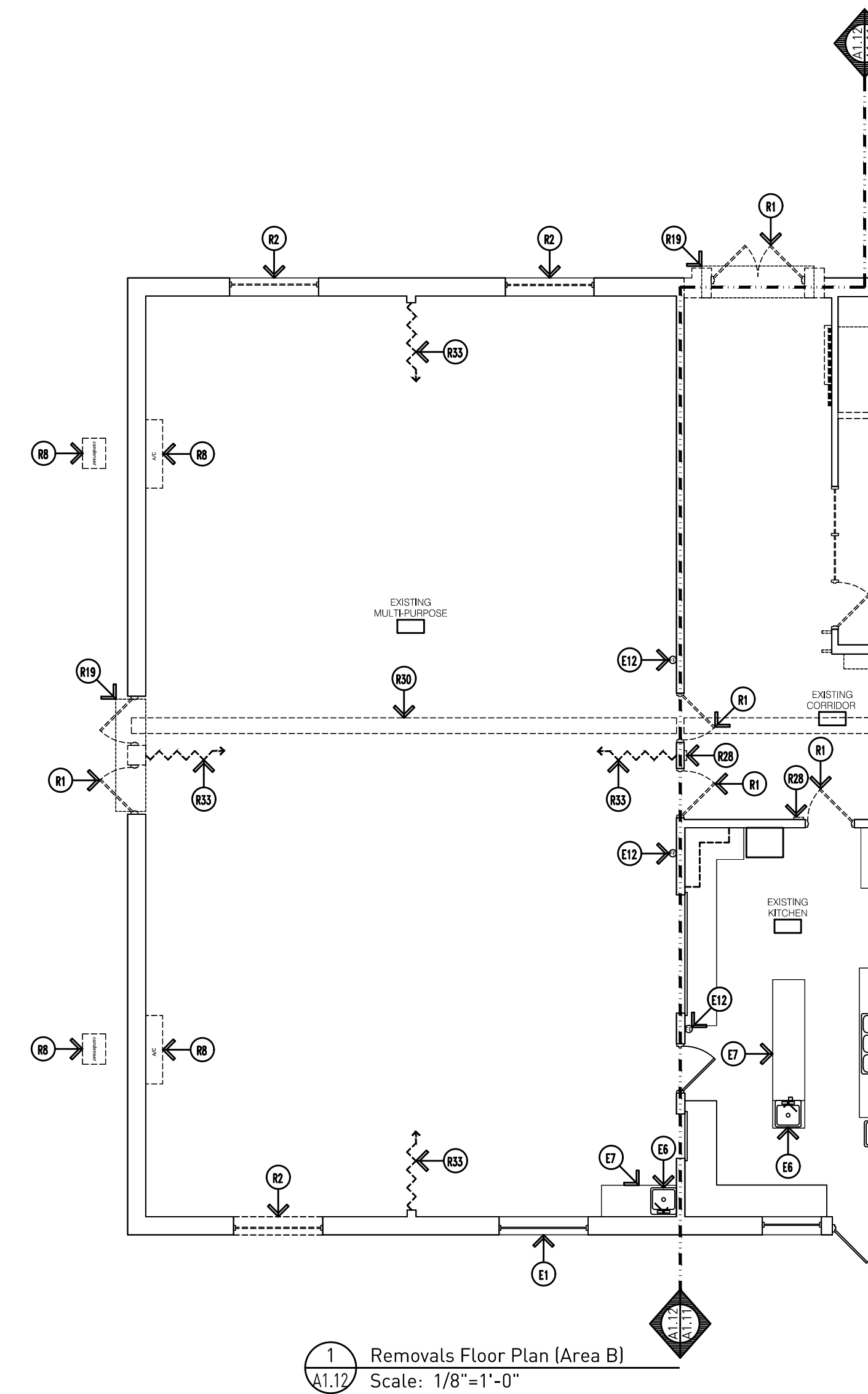
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- G2. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G3. PROTECT ALL EXISTING ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G4. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED AND FINISHED BACK TO EXISTING CONDITION.
- G5. CONTRACTOR TO COORDINATED BUILDING ACCESS, CONSTRUCTION ACCESS, ETC. WITH THE OWNERS REPRESENTATIVE PRIOR TO COMMENCING ON THE WORK.
- G6. CONFORM TO ALL MICHIGAN BARRIER FREE REQUIREMENTS.
- G7. CONTRACTOR TO RECONNECT ANY WIRING THAT IS NEEDED TO MAINTAIN OPERATION OF OUTLETS, LIGHTS, ETC. THAT ARE CONNECTED TO FIXTURES OR DEVICES TO BE REMOVED.
- G8. ELECTRICAL (OUTLETS, ETC.) TO REMAIN, UNLESS OTHERWISE NOTED. TERMINATE WIRES (AS REQUIRED IN A CONCEALED LOCATION OR REMOVE BACK TO NEAREST JUNCTION BOX).
- G9. ALL WALLS, DOORS, WINDOWS, PLUMBING FIXTURES, PIPING, ETC. ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- G10. DISPOSE OF ALL ITEMS REMOVED OFF SITE PER LOCAL BUILDING AND SAFETY ORDINANCES. ANY ITEM REQUESTED BY CRESTWOOD TO BE SALVAGED SHALL BE RETURNED TO OWNER.
- G11. DO NOT DISTURB EXISTING UTILITIES TO REMAIN. USE EVERY PRECAUTION TO ENSURE SAFE REMOVAL WORK. INSPECT EXISTING WORK FOR POSSIBLE UNUSUAL CONDITIONS.
- G12. COORDINATE ALL REMOVAL WORK (ARCHITECTURAL REMOVAL WORK, ELECTRICAL REMOVAL WORK, MECHANICAL REMOVAL WORK, ETC.)
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- G14. REMOVE ALL ELECTRICAL DEVICES ON WALLS TO BE DEMOLISHED LIGHTING, POWER, FIRE ALARM, P/A ETC.) INCLUDING CEILING MOUNTED LIGHTING. REMOVE LIGHT CONTROLS AND MAINTAIN BRANCH CIRCUIT SERVING LIGHTING FOR RECONNECTION TO NEW LIGHTING. ANY DEVICE LOCATED ON WALL NOT TO BE DEMOLISHED IS TO REMAIN (WALLS TO BE DEMOLISHED ARE SHOWN DASHED). REFER TO FLOOR PLANS FOR EXTENT OF WORK.
- G15. REMOVE LIGHT FIXTURES AND CONTROLS. MAINTAIN BRANCH CIRCUIT FOR REUSE.
- G16. REMOVE EXISTING FIRE ALARM SYSTEM COMPLETE (DEVICES AND WIRING). ALL FIRE ALARM DEVICES AND WIRING INDICATED OR NOT INDICATED TO BE REMOVED.
- G17. NOT ALL NOTES MAY APPLY TO THIS SHEET.

EXISTING TO REMAIN:

- E1. WINDOW SYSTEM.
- E2. DOOR.
- E3. FIRE ALARM.
- E4. SPEAKER.
- E5. ELECTRICAL DEVICES, CONDUIT, AND WIRING.
- E6. KITCHEN SINK.
- E7. CASEWORK.
- E8. JANITORS SINK.
- E9. HOT WATER TANK.
- E10. PLATFORM.
- E11. EXISTING DISPLAY CASE.
- E12. EXISTING FIRE EXTINGUISHER.
- E13. EXISTING GAS METER.
- E14. EXISTING WATER METER.

REMOVAL NOTES:

- R1. EXISTING DOOR, FRAME, HARDWARE, ETC. COMPLETE.
- R2. EXISTING WINDOW SYSTEM, GLAZING, ETC. COMPLETE.
- R3. EXISTING ELECTRICAL EQUIPMENT -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R4. EXISTING MILLWORK - COUNTER OR STORAGE CABINET.
- R5. EXISTING PLUMBING FIXTURES (TOILET, SINK, ETC.).
- R6. EXISTING DRINKING FOUNTAIN. LOCATION SHOWN FOR REFERENCE ONLY C.F.V.
- R7. EXISTING JANITORS SINK.
- R8. EXISTING HVAC -- REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- R9. EXISTING WALL.
- R10. EXISTING TOILET PARTITION.
- R11. EXISTING MARBLE HEARTH AND SURROUND, MANTEL TO REMAIN.
- R12. EXISTING BRASS INSERT.
- R13. EXISTING RISERS.
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- R15. REMOVE GYPSUM BOARD/PLASTER BELOW 6" AFF ON EXISTING WALLS TO REMAIN FOR INSTALLATION OF CEMENT BOARD.
- R16. REMOVE STAINED GLASS AND FRAME.
- R17. REMOVE STAINED GLASS AND REPLACE WITH CLEAR GLASS.
- R18. EXISTING PHONE SHELF.
- R19. EXISTING CONCRETE SLAB.



1 Removals Floor Plan (Area B)
A1.12 Scale: 1/8"=1'-0"



Bidding and Permits: 31 July 2023

Removals Floor Plan (Area B)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A1.12



GENERAL REMOVAL NOTES:

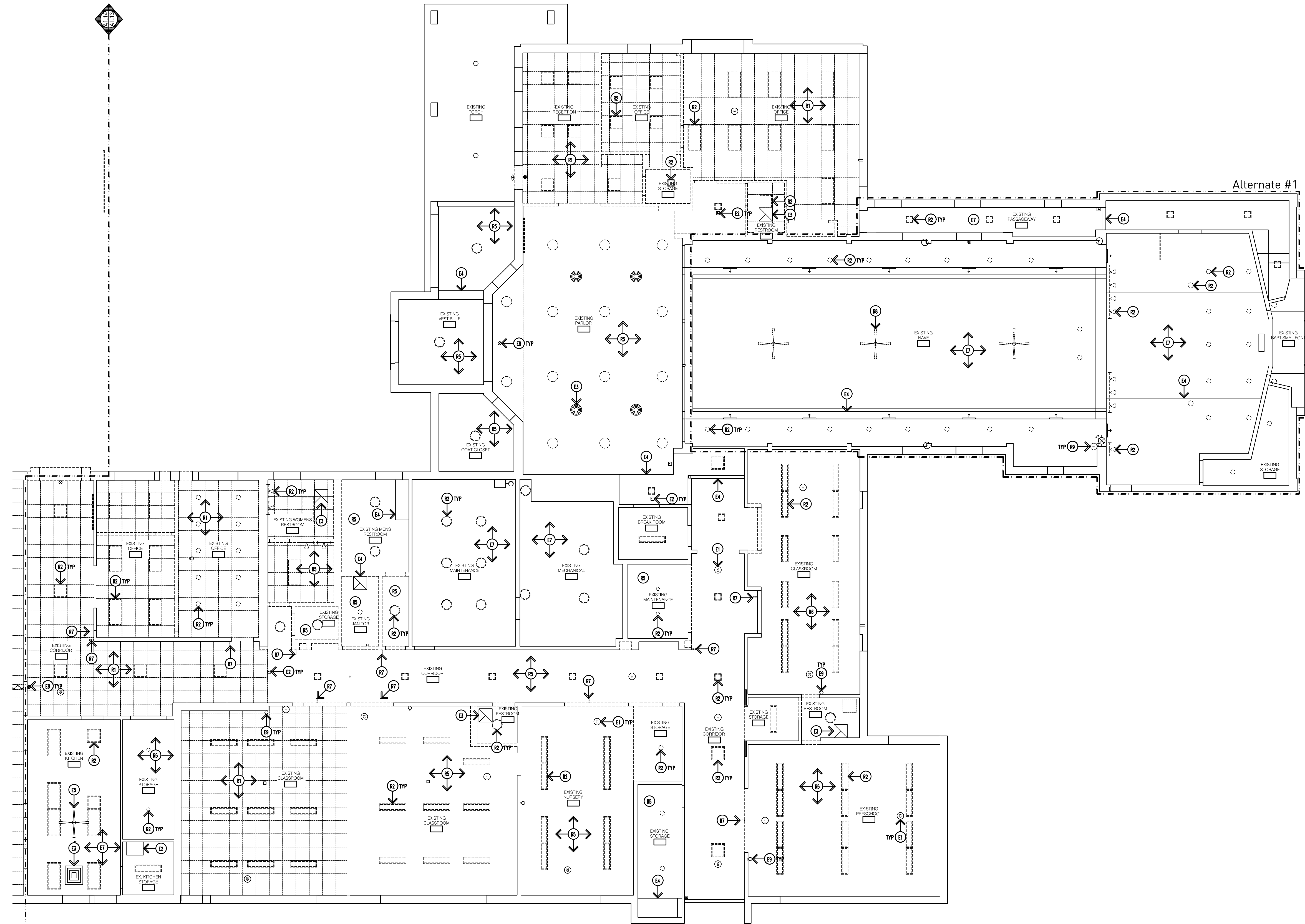
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- G5. CONTRACTOR TO COORDINATE BUILDING ACCESS, CONSTRUCTION ACCESS, ETC. WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING ON THE WORK.
- G6. CONTRACTOR TO RECONNECT ANY WIRING THAT IS NEEDED TO MAINTAIN OPERATION OF OUTLETS, LIGHTS, ETC. THAT ARE CONNECTED TO FIXTURES OR DEVICES TO BE REMOVED.
- G7. ELECTRICAL (OUTLETS, ETC.) TO REMAIN, UNLESS OTHERWISE NOTED. TERMINATE WIRES AS REQUIRED IN A CONCEALED LOCATION OR REMOVE BACK TO NEAREST JUNCTION BOX.
- G8. ALL WALLS, DOORS, WINDOWS, PLUMBING FIXTURES, PIPING, ETC. ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
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- G11. DO NOT DISTURB EXISTING UTILITIES TO REMAIN. USE EVERY PRECAUTION TO ENSURE SAFE REMOVAL WORK. INSPECT EXISTING WORK FOR POSSIBLE UNUSUAL CONDITIONS.
- G12. COORDINATE ALL REMOVAL WORK (ARCHITECTURAL REMOVAL WORK, ELECTRICAL REMOVAL WORK, MECHANICAL REMOVAL WORK, ETC.)
- G13. RELOCATE, REMOVE AND REPLACE OR RE-SUPPORT ANY MECHANICAL OR ELECTRICAL ITEMS IN THE WAY OF NEW CONSTRUCTION OPERATIONS.
- G14. CEILING REMOVALS SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS TO BE DETERMINED BY CONTRACTOR'S MEANS AND METHODS FOR ALL WORK (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.)
- G15. NOT ALL NOTES MAY APPLY TO THIS SHEET.

EXISTING TO REMAIN:

- E1. SPEAKER.
- E2. ELECTRICAL EQUIPMENT.
- E3. HVAC EQUIPMENT.
- E4. SOFFIT.
- E5. CEILING FAN.
- E6. LIGHT FIXTURE.
- E7. EXISTING CEILING SYSTEM TO REMAIN.
- E8. EXIST SIGN.
- E9. WIFI.

REMOVAL NOTES:

- R1. EXISTING SUSPENDED ACOUSTIC CEILING TILE AND METAL GRID SUSPENSION SYSTEM.
- R2. EXISTING LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R3. EXISTING ELECTRICAL EQUIPMENT -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R4. EXISTING HVAC -- REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- R5. EXISTING GYPSUM CEILING.
- R6. EXISTING ELECTRICAL EQUIPMENT -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R7. EXISTING ROOM SIGNS.
- R8. EXISTING CEILING FAN.
- R9. EXISTING SPEAKER.
- R10. MOVEABLE PARTITION WALL TRACK AND STRUCTURAL SUPPORTS.



Bidding and Permits: 31 July 2023

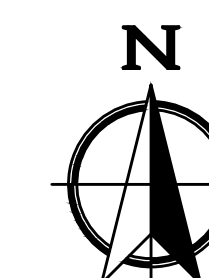
Removals Ceiling Plan (Area A)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A1.13



1 Removals Ceiling Plan (Area A)
A1.13 Scale: 1/8"=1'-0"

GENERAL REMOVAL NOTES:

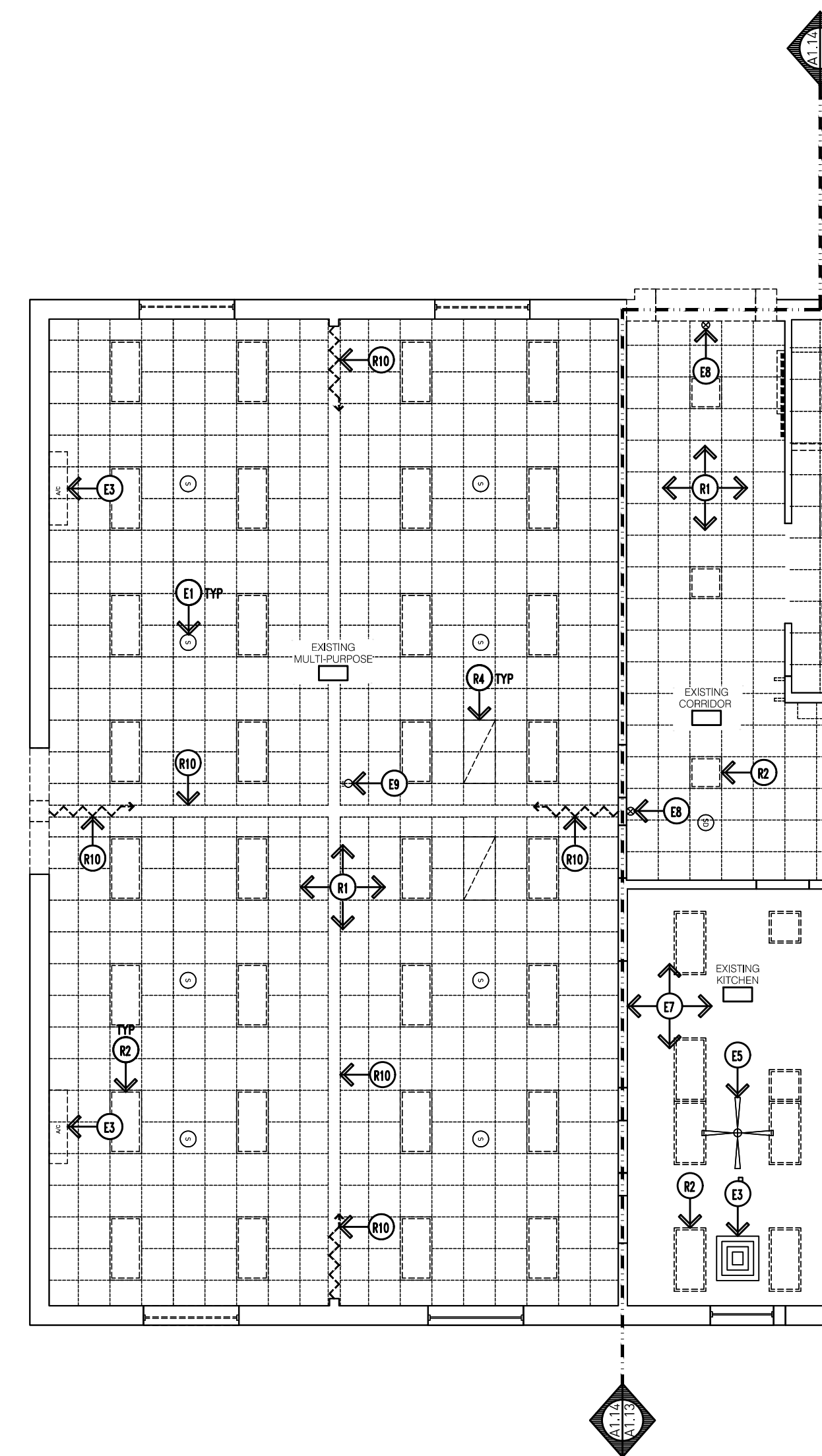
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G3. PROTECT ALL EXISTING ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G4. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED AND FINISHED BACK TO EXISTING CONDITION.
- G5. CONTRACTOR TO COORDINATE BUILDING ACCESS, CONSTRUCTION ACCESS, ETC. WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING ON THE WORK.
- G6. CONTRACTOR TO RECONNECT ANY WIRING THAT IS NEEDED TO MAINTAIN OPERATION OF OUTLETS, LIGHTS, ETC. THAT ARE CONNECTED TO FIXTURES OR DEVICES TO BE REMOVED.
- G7. ELECTRICAL (OUTLETS, ETC.) TO REMAIN, UNLESS OTHERWISE NOTED. TERMINATE WIRE(S) AS REQUIRED IN A CONCEALED LOCATION OR REMOVE BACK TO NEAREST JUNCTION BOX.
- G8. ALL WALLS, DOORS, WINDOWS, PLUMBING FIXTURES, PIPING, ETC. ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- G10. DISPOSE OF ALL ITEMS REMOVED OFF SITE PER LOCAL BUILDING AND SAFETY ORDINANCES. ANY ITEM REQUESTED BY CRESTWOOD TO BE SALVAGED SHALL BE RETURNED TO OWNER.
- G11. DO NOT DISTURB EXISTING UTILITIES TO REMAIN. USE EVERY PRECAUTION TO ENSURE SAFE REMOVAL WORK. INSPECT EXISTING WORK FOR POSSIBLE UNUSUAL CONDITIONS.
- G12. COORDINATE ALL REMOVAL WORK (ARCHITECTURAL REMOVAL WORK, ELECTRICAL REMOVAL WORK, MECHANICAL REMOVAL WORK, ETC.)
- G13. RELOCATE, REMOVE AND REPLACE OR RE-SUPPORT ANY MECHANICAL OR ELECTRICAL ITEMS IN THE WAY OF NEW CONSTRUCTION OPERATIONS.
- G14. CEILING REMOVALS SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS TO BE DETERMINED BY CONTRACTOR'S MEANS AND METHODS FOR ALL WORK (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.)
- G15. NOT ALL NOTES MAY APPLY TO THIS SHEET.

EXISTING TO REMAIN:

- E1. SPEAKER.
- E2. ELECTRICAL EQUIPMENT.
- E3. HVAC EQUIPMENT.
- E4. SOFFIT.
- E5. CEILING FAN.
- E6. LIGHT FIXTURE.
- E7. EXISTING CEILING SYSTEM TO REMAIN.
- E8. EXIST SIGN.
- E9. WIFI.

REMOVAL NOTES:

- R1. EXISTING SUSPENDED ACOUSTIC CEILING TILE AND METAL GRID SUSPENSION SYSTEM.
- R2. EXISTING LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R3. EXISTING ELECTRICAL EQUIPMENT -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R4. EXISTING HVAC -- REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- R5. EXISTING GYPSUM CEILING.
- R6. EXISTING ELECTRICAL EQUIPMENT -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R7. EXISTING ROOM SIGNS.
- R8. EXISTING CEILING FAN.
- R9. EXISTING SPEAKER.
- R10. MOVEABLE PARTITION WALL TRACK AND STRUCTURAL SUPPORTS.



1 Removals Ceiling Plan (Area B)
A1.14 Scale: 1/8"=1'-0"



Bidding and Permits: 31 July 2023

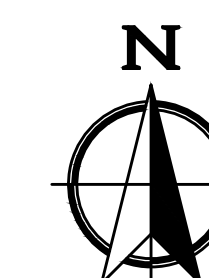
Removals Ceiling Plan (Area B)

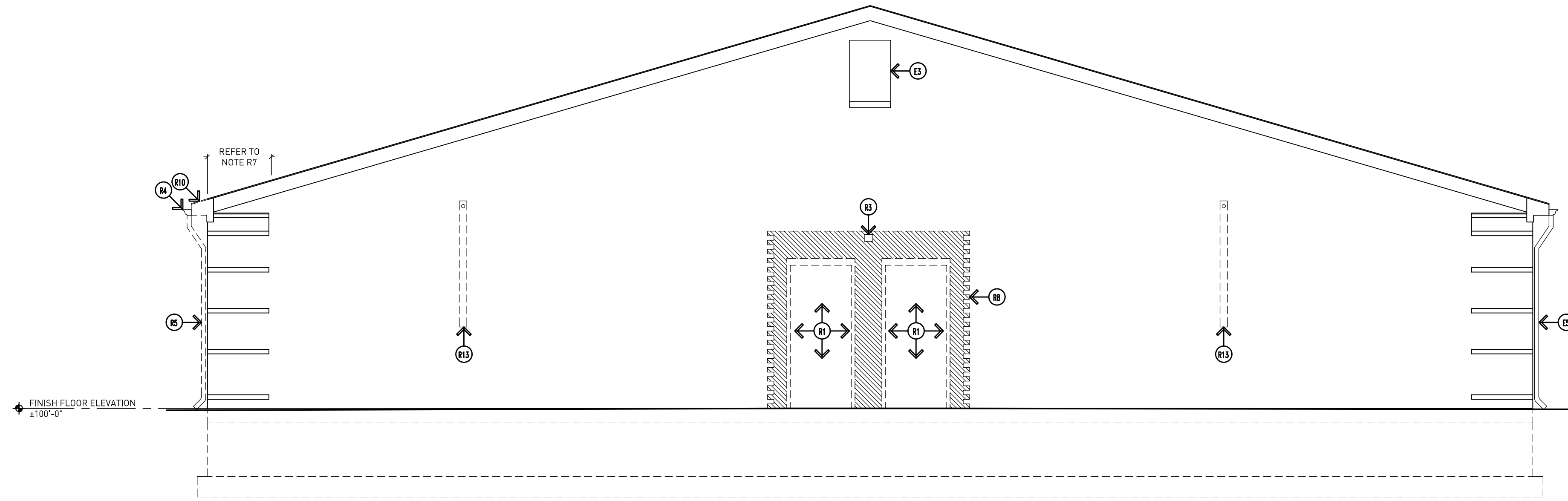


Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

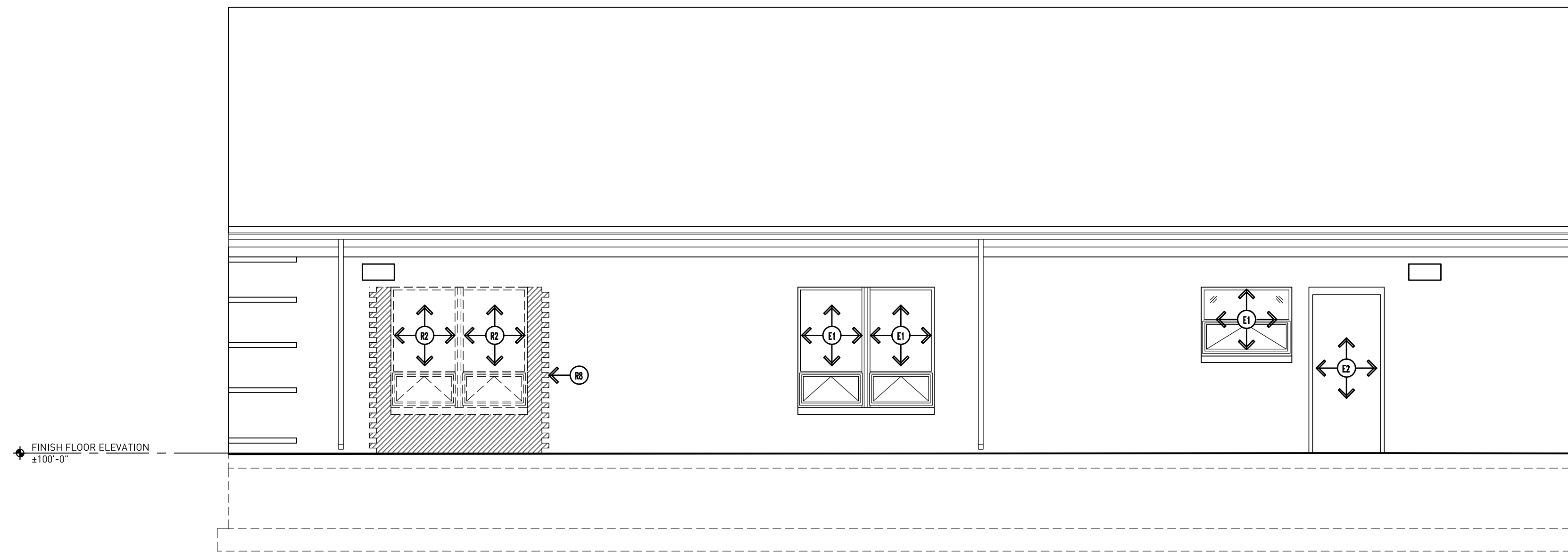
Project No. 3221

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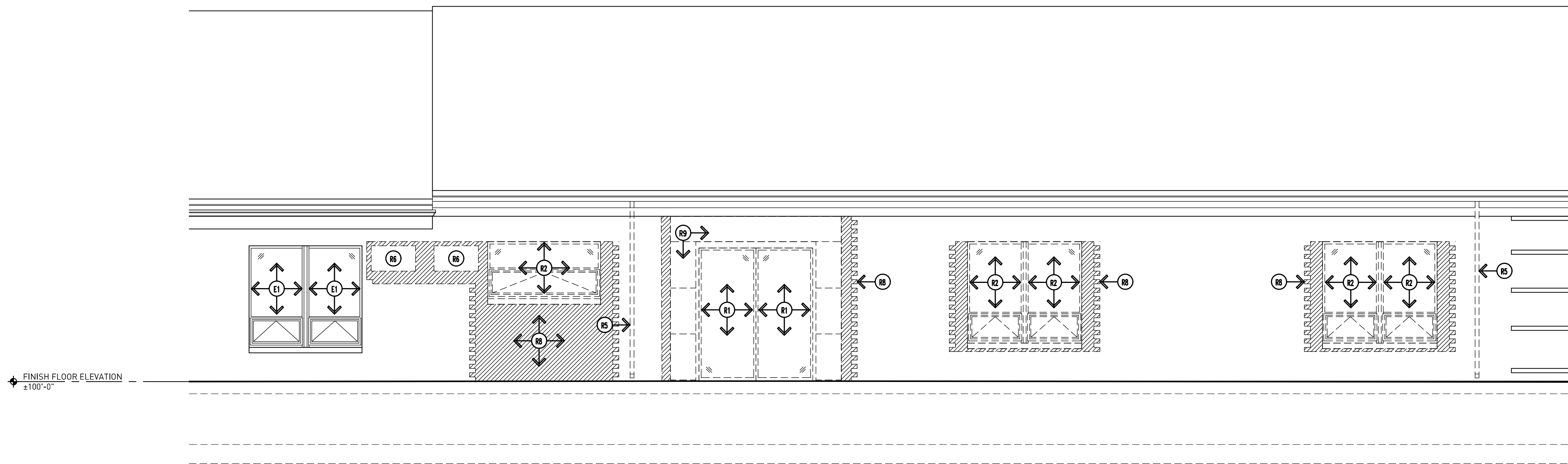




3 Removal Elevation - West
Scale: 1/4"=1'-0"



2 Removal Elevation - South
Scale: 1/4"=1'-0"



1 Removal Elevation - North
Scale: 1/4"=1'-0"

GENERAL REMOVAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G3. PROTECT ALL EXISTING ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G4. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED AND FINISHED BACK TO EXISTING CONDITION.
- G5. CONTRACTOR TO COORDINATE BUILDING ACCESS, CONSTRUCTION ACCESS, ETC. WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING ON THE WORK.
- G6. CONTRACTOR TO RECONNECT ANY WIRING THAT IS NEEDED TO MAINTAIN OPERATION OF OUTLETS, LIGHTS, ETC. THAT ARE CONNECTED TO FIXTURES OR DEVICES TO BE REMOVED.
- G7. ALL WALLS, DOORS, WINDOWS, PLUMBING FIXTURES, PIPING, ETC. ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- G8. DISPOSE OF ALL ITEMS REMOVED OFF SITE PER LOCAL BUILDING AND SAFETY ORDINANCES. ANY ITEM REQUESTED BY CRESTWOOD TO BE SALVAGED SHALL BE RETURNED TO OWNER.
- G9. DO NOT DISTURB EXISTING UTILITIES TO REMAIN. USE EVERY PRECAUTION TO ENSURE SAFE REMOVAL WORK. INSPECT EXISTING WORK FOR POSSIBLE UNUSUAL CONDITIONS.
- G10. COORDINATE ALL REMOVAL WORK (ARCHITECTURAL REMOVAL WORK, ELECTRICAL REMOVAL WORK, MECHANICAL REMOVAL WORK, ETC.)
- G11. RELOCATE, REMOVE AND REPLACE OR RE-SUPPORT ANY MECHANICAL OR ELECTRICAL ITEMS IN THE WAY OF NEW CONSTRUCTION OPERATIONS.
- G12. NOT ALL NOTES MAY APPLY TO THIS SHEET.

EXISTING TO REMAIN:

- E1. WINDOW SYSTEM.
- E2. DOOR.
- E3. HVAC EQUIPMENT.
- E4. LIGHT FIXTURE.
- E5. EXISTING DOWNSPOUT AND GUTTER.

REMOVAL NOTES:

- R1. EXISTING DOOR, FRAME, HARDWARE, ETC. COMPLETE.
- R2. EXISTING WINDOW SYSTEM, GLAZING, ETC. COMPLETE.
- R3. EXISTING LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R4. EXISTING ROOF GUTTER.
- R5. EXISTING DOWNSPOUT.
- R6. EXISTING HVAC -- REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- R7. REMOVE EXISTING SHINGLES 3 COURSES MINIMUM OR AS REQUIRED.
- R8. REMOVE EXISTING MASONRY.
- R9. REMOVE EXISTING LIMESTONE.
- R10. REMOVAL OF EXISTING ALUM. FASCIA, ALUM. SOFFIT, ASPHALT SHINGLES, ETC.
- R11. REMOVE STAINED GLASS, EXISTING FRAME TO REMAIN.
- R12. REMOVE STAINED GLASS AND FRAME.
- R13. CONDENSING UNIT LINE SETS -- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.



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Removals Elevations



Crestwood School District
Cherry Hill Baptist Church
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A1.15

GENERAL REMOVAL NOTES:

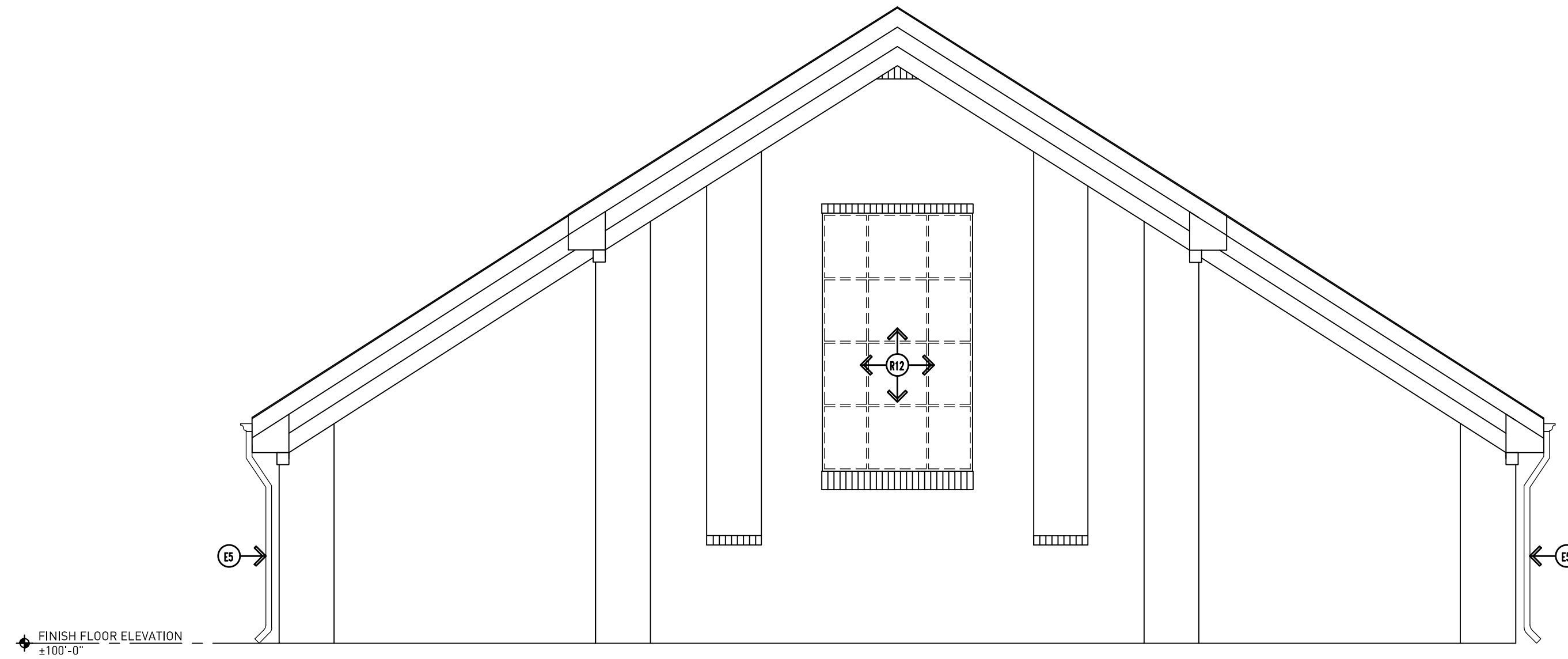
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- G3. PROTECT ALL EXISTING ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G4. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED AND FINISHED BACK TO EXISTING CONDITION.
- G5. CONTRACTOR TO COORDINATE BUILDING ACCESS, CONSTRUCTION ACCESS, ETC. WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING ON THE WORK.
- G6. CONTRACTOR TO RECONNECT ANY WIRING THAT IS NEEDED TO MAINTAIN OPERATION OF OUTLETS, LIGHTS, ETC. THAT ARE CONNECTED TO FIXTURES OR DEVICES TO BE REMOVED.
- G7. ALL WALLS, DOORS, WINDOWS, PLUMBING FIXTURES, PIPING, ETC. ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- G8. DISPOSE OF ALL ITEMS REMOVED OFF SITE PER LOCAL BUILDING AND SAFETY ORDINANCES. ANY ITEM REQUESTED BY CRESTWOOD TO BE SALVAGED SHALL BE RETURNED TO OWNER.
- G9. DO NOT DISTURB EXISTING UTILITIES TO REMAIN. USE EVERY PRECAUTION TO ENSURE SAFE REMOVAL WORK. INSPECT EXISTING WORK FOR POSSIBLE UNUSUAL CONDITIONS.
- G10. COORDINATE ALL REMOVAL WORK (ARCHITECTURAL REMOVAL WORK, ELECTRICAL REMOVAL WORK, MECHANICAL REMOVAL WORK, ETC.)
- G11. RELOCATE, REMOVE AND REPLACE OR RE-SUPPORT ANY MECHANICAL OR ELECTRICAL ITEMS IN THE WAY OF NEW CONSTRUCTION OPERATIONS.
- G12. NOT ALL NOTES MAY APPLY TO THIS SHEET.

EXISTING TO REMAIN:

- E1. WINDOW SYSTEM.
- E2. DOOR.
- E3. HVAC EQUIPMENT.
- E4. LIGHT FIXTURE.
- E5. EXISTING DOWNSPOUT AND GUTTER.

REMOVAL NOTES:

- R1. EXISTING DOOR, FRAME, HARDWARE, ETC. COMPLETE.
- R2. EXISTING WINDOW SYSTEM, GLAZING, ETC. COMPLETE.
- R3. EXISTING LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- R4. EXISTING ROOF GUTTER.
- R5. EXISTING DOWNSPOUT.
- R6. EXISTING HVAC -- REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- R7. REMOVE EXISTING SHINGLES 3 COURSES MINIMUM OR AS REQUIRED.
- R8. REMOVE EXISTING MASONRY.
- R9. REMOVE EXISTING LIMESTONE.
- R10. REMOVAL OF EXISTING ALUM. FASCIA, ALUM. SOFFIT, ASPHALT SHINGLES, ETC.
- R11. REMOVE STAINED GLASS, EXISTING FRAME TO REMAIN.
- R12. REMOVE STAINED GLASS AND FRAME.
- R13. CONDENSING UNIT LINE SETS -- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.



1 Removal Elevation - East
A1.16 Scale: 1/4"=1'-0"



2 Removal Elevation - West
A1.16 Scale: 1/4"=1'-0"



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Removals Elevations



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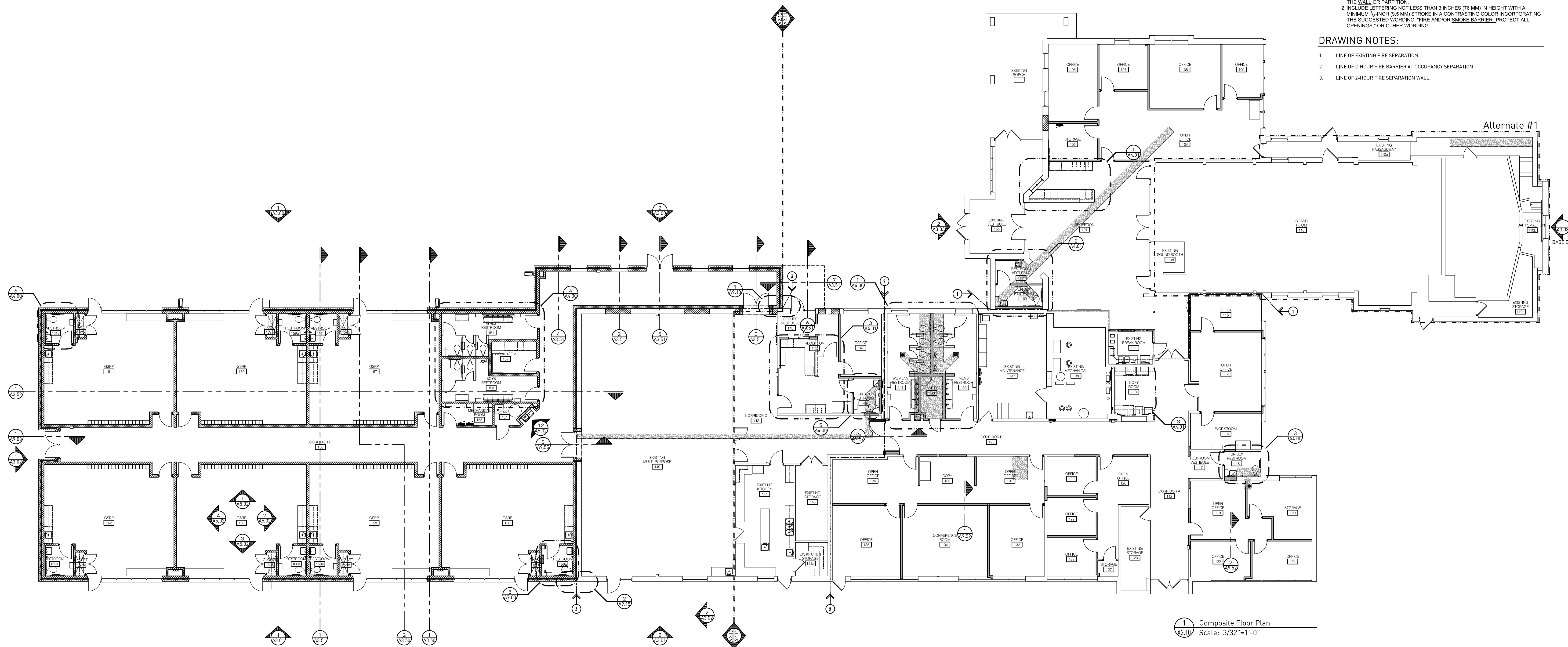
A1.16

GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. COMPOSITE PLAN ISSUED FOR REFERENCE ONLY.
- G3. REFER TO SHEETS A2.11 AND A2.12 FOR FURTHER INFORMATION.
- G3. PER SECTION 703.7 MARKING AND IDENTIFICATION OF THE 2015 MICHIGAN BUILDING CODE, WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL:
 - 1. BE LOCATED WITHIN 15 FEET (4572 MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
 - 2. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 1/8-INCH (3.2 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING: "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS," OR OTHER WORDING.

DRAWING NOTES:

- 1. LINE OF EXISTING FIRE SEPARATION.
- 2. LINE OF 2-HOUR FIRE BARRIER AT OCCUPANCY SEPARATION.
- 3. LINE OF 2-HOUR FIRE SEPARATION WALL.



Bidding and Permits: 31 July 2023

Composite Floor Plan



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

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A2.10



INTERIOR WALL TAGS:

- IW1. TYPICAL METAL STUD WALL CONSTRUCTION UNLESS NOTED OTHERWISE.
 - 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
 - 3-5/8" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - MINIMUM 3" SOUND ATTENUATION BATTS TO U/S OF ROOF DECK.
 - 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
- IW2. METAL STUD SOUND ACOUSTIC WALL - TEST NUMBER RAL-TL-84-134
 - 1/2" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK. GYPSUM SCREWS ATTACHED TO STUDS.
 - 3-5/8" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - MINIMUM 3" SOUND ATTENUATION BATTS TO U/S OF ROOF DECK.
 - RC-1 CHANNEL INSTALLED ON ONE SIDE @ 24" O.C.
 - TWO (2) LAYERS 1/2" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO UNDERSIDE OF ROOF DECK. GYPSUM SCREWS ATTACHED TO RC-1 CHANNEL.
 - ACOUSTIC SEALANT AT TOP AND BOTTOM OF WALLS AND AT ALL PENETRATIONS.
 - FOR WALLS LOCATED AT RESTROOMS, REFER TO ADJACENT WALL CONSTRUCTION TYPE FOR TILE WALL CONSTRUCTION.
- IW3. METAL STUD SECURE VESTIBULE WALL
 - 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
 - 3-5/8" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - 5/16" BULLET RESISTANT FIBERGLASS PANEL.
 - 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.

- IW4. METAL STUD WET WALL WITH CERAMIC TILE ON BOTH SIDES
 - CERAMIC WALL TILE TO 6'-9" AFF - REFER TO A8.52
 - BOND COAT TO 6'-9" AFF - REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS
 - WATERPROOF MEMBRANE (ANSI A118.10). TO 6'-9" AFF
 - 5/8" CEMENTITIOUS BACKER BOARD TO 6'-8" AFF
 - 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS FROM 6'-8 1/2" AFF TO U/S OF ROOF DECK.
 - 4" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS FROM 6'-8 1/2" AFF TO U/S OF ROOF DECK.
 - 5/8" CEMENTITIOUS BACKER BOARD TO 6'-8" AFF
 - WATERPROOF MEMBRANE (ANSI A118.10). TO 6'-9" AFF
 - BOND COAT TO 6'-9" AFF - REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS
 - CERAMIC WALL TILE TO 6'-9" AFF - REFER TO A8.52
- IW5. METAL STUD COMMON WALL BETWEEN JANITOR CLOSET AND WET WALL WITH CERAMIC TILE
 - 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
 - 4" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS FROM 6'-8 1/2" AFF TO U/S OF ROOF DECK.
 - 5/8" CEMENTITIOUS BACKER BOARD TO 6'-8" AFF
 - WATERPROOF MEMBRANE (ANSI A118.10). TO 6'-9" AFF
 - BOND COAT TO 6'-9" AFF - REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS
 - CERAMIC WALL TILE TO 6'-9" AFF - REFER TO A8.52
- IW6. EXISTING WALL CONSTRUCTION WITH CERAMIC TILE
 - EXISTING WALL CONSTRUCTION
 - 5/8" CEMENTITIOUS BACKER BOARD
 - WATERPROOF MEMBRANE (ANSI A118.10).
 - BOND COAT TO - REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS
 - CERAMIC WALL TILE
- IW7. METAL FURRING WALL IN RESTROOM
 - EXISTING WALL CONSTRUCTION OR 7 5/8" CMU.
 - 4" METAL STUD FRAMING AT 16" O.C TO 4" ABOVE CEILING.
 - 5/8" CEMENTITIOUS BACKER BOARD.
 - WATERPROOF MEMBRANE (ANSI A118.10).
 - BOND COAT - REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS
 - CERAMIC WALL TILE
- IW8. METAL FURRING WALL AT WATER COOLER
 - EXISTING WALL CONSTRUCTION.
 - 3" Z CHANNEL AT 16" O.C TO 4" ABOVE CEILING.
 - 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO 4" ABOVE CEILING.
- IW9. METAL STUD FIRE BARRIER. 2 HOUR FIRE-RATED CONSTRUCTION. UL DES U419 OR U501.
 - 3/4" SHEETROCK ULTRACODE CORE GYPSUM PANEL TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK OR ADJACENT CMU WALL.
 - 3-1/2" 25 GA. METAL STUD FRAMING AT 24" O.C TO U/S OF ROOF DECK OR ADJACENT CMU WALL. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - MINIMUM 3" THERMAFIBER SAFB TO U/S OF ROOF DECK.
 - 3/4" SHEETROCK ULTRACODE CORE GYPSUM PANEL TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK OR ADJACENT CMU WALL.
- IW10. MASONRY WALL
 - 7 5/8" CMU WALL.
- IW11. MASONRY WALL
 - 5 5/8" CMU WALL.

GENERAL NOTES:

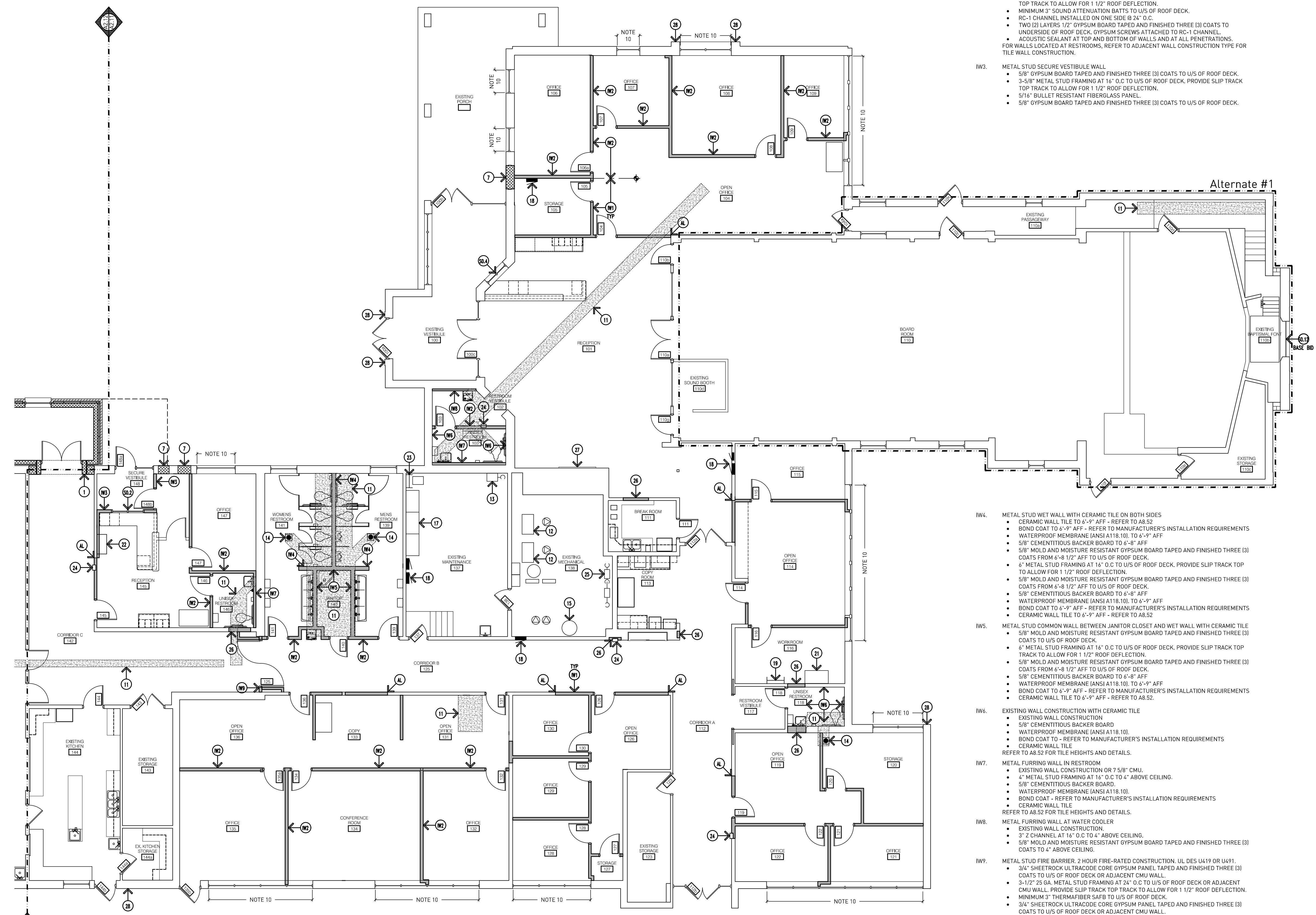
01. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
02. COORDINATE THE TIMING OF WORK TO AVOID CONFLICTS WITH NORMAL SCHOOL OPERATIONS AND ACTIVITIES.
03. CONTRACTOR TO KEEP ALL AREAS NOT AFFECTED BY CONSTRUCTION OPERATIONS OPEN, CLEAN, AND FREE FOR OWNER USE.
04. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS IN FIELD PRIOR TO WORK COMMENCEMENT. IF ANY DISCREPANCIES EXIST BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD CONDITIONS, NOTIFY THE ARCHITECT.
05. ALL MASONRY TO MATCH EXISTING COURSE EXACTLY. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO WORK.
06. CONTRACTOR SHALL INSTALL HORIZONTAL JOINT REINFORCING @ 16" O.C VERTICALLY.
07. CONTRACTOR TO INSTALL ADJUSTABLE BRICK VENEER ANCHORS @ 16" O.C VERTICALLY AND HORIZONTALLY. FIELD VERIFY CAVITY SIZE TO PROVIDE CORRECT ANCHOR.
08. CONTRACTOR SHALL INSTALL A CONTINUOUS VAPOR BARRIER FROM FOUNDATION TO ROOFING. REFER TO SPECIFICATION FOR FURTHER INFORMATION.
09. ALL OUTSIDE CORNERS OF INTERIOR CMU MASONRY TO BE BULLNOSE.
10. ALL CORRIDOR WALLS TO BE CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE.
11. FIRE STOP ANY PENETRATIONS THROUGH FIRE WALLS AND BARRIERS.
12. 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.
13. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING THE WORK.
14. ALL INTERIOR WALLS TO BE CONSTRUCTED TO UNDERSIDE OF ROOF DECK. PROVIDE COMPRESSIVE FIRE SAFE MATERIAL (FIRE-RATED TO MEET CODE, AS REQUIRED) AT TOP OF WALL TO ALLOW FOR MINIMUM 1" ROOF DEFLECTION.
15. PROVIDE NON-COM WOOD BLOCKING AS REQUIRED TO INSTALL MISC. ACCESSORIES, IFPS, MARKER BOARDS ETC WHETHER INDICATED OR NOT. VERIFY ALL LOCATIONS WITH OWNER AT A PRE-CONSTRUCTION MEETING.
16. CONTRACTOR TO COORDINATE CONDUIT RUNS AND TERMINATIONS ASSOCIATED WITH LOW-VOLTAGE COMMUNICATIONS, FIRE ALARM, SECURITY, ETC. AT A PRE-CONSTRUCTION MEETING.
17. ALL WALLS TO BE PAINTED UNLESS NOTED OTHERWISE.
18. PATCH AND REPAIR ALL EXPOSED SURFACES, WHETHER NOTED OR NOT, AT REMOVED ITEMS, REMOVED EQUIPMENT, REMOVED WALLS, CONSTRUCTION DAMAGE, ETC.

DRAWING NOTES:

1. PORTAL WALL SYSTEM PROVIDE MINIMUM 1" GAP AT ALL SIDES.
2. UNIT VENTILATOR. REFER TO MECHANICAL DRAWINGS.
3. PLASTIC LAMINATE CUBBIES. REFER TO INTERIOR ELEVATIONS AND SPECIFICATIONS.
4. VISUAL DISPLAY BOARD. REFER TO SPECIFICATIONS.
5. INTERACTIVE FLAT PANEL. FURNISHED AND INSTALLED BY TECHNOLOGY VENDOR.
6. WALL MOUNTED ROOF LADDER.
7. INFILL EXISTING EXTERIOR WALL OPENING. TOOTH IN EXTERIOR MASONRY AS REQUIRED TO MATCH ADJACENT WALL EXACTLY. PROVIDE INTERIOR FINISH TO MATCH EXISTING.
8. INSTALL TWO FIXED AND PAINTED SHELVES IN CLOSET, 63"-6" AND 5'-0" AFF.
9. SINGLE ROLLER WINDOW SHADE, ROOM DARKENING. REFER TO MATERIAL SCHEDULE AND SPECIFICATIONS.
10. SINGLE ROLLER WINDOW SHADE, 5% OPEN - REFER TO MATERIAL SCHEDULE AND SPECIFICATIONS.
11. TRENCH INFILL. MIN 4" THICK CONCRETE FLOOR SLAB ON 15 MIL VAPOR BARRIER. TOP OF NEW CONCRETE TO BE FLUSH WITH EXISTING ADJACENT SLAB EXACTLY.
12. BOILER - REFER TO MECHANICAL.
13. WATER METER - REFER TO MECHANICAL.
14. FLOOR DRAIN - REFER TO MECHANICAL.
15. HOT WATER TANK - REFER TO MECHANICAL.
16. LOCKABLE HOSE BIB - REFER TO MECHANICAL.
17. MSB - REFER TO ELECTRICAL.
18. ELECTRICAL PANEL - REFER TO ELECTRICAL.
19. TMBD - REFER TO ELECTRICAL AND TECHNOLOGY.
20. TGB - REFER TO ELECTRICAL AND TECHNOLOGY.
21. DATA RACK - REFER TO TECHNOLOGY.
22. FIRE ALARM PANEL - REFER TO ELECTRICAL.
23. GROUNDING BAR - REFER TO ELECTRICAL.
24. SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH FIRE EXTINGUISHER.
25. EXISTING GAS METER.
26. INFILL INTERIOR WALL OPENING AS REQUIRED TO PROVIDE FLUSH APPEARANCE.
27. FIREPLACE DESIGN INTENT. PATCH AND REPAIR SURFACES AFTER REMOVAL OF MARBLE SURROUND AND BRASS INSERT. PAINT SURROUND AND FIREBOX FOR FINISHED APPEARANCE.
28. CLEAN, PATCH AND REPAIR Limestone/BRICK AT REMOVED OR REPLACED EXTERIOR LIGHT FIXTURES.

EXTERIOR WALL TAGS:

- EW1.
 - 7 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
 - 3" SPRAY FOAM BUILDING INSULATION OVER CONTINUOUS VAPOR BARRIER.
 - 1 1/4" SPACE.
 - 3 5/8" BRICK VENEER WITH ADJACENT BRICK TIES @ 16" O.C VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).



1 Floor Plan (Area A)
A2.11 Scale: 1/8"=1'-0"



Bidding and Permits: 31 July 2023

Floor Plan (Area A)

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INTERIOR WALL TAGS:

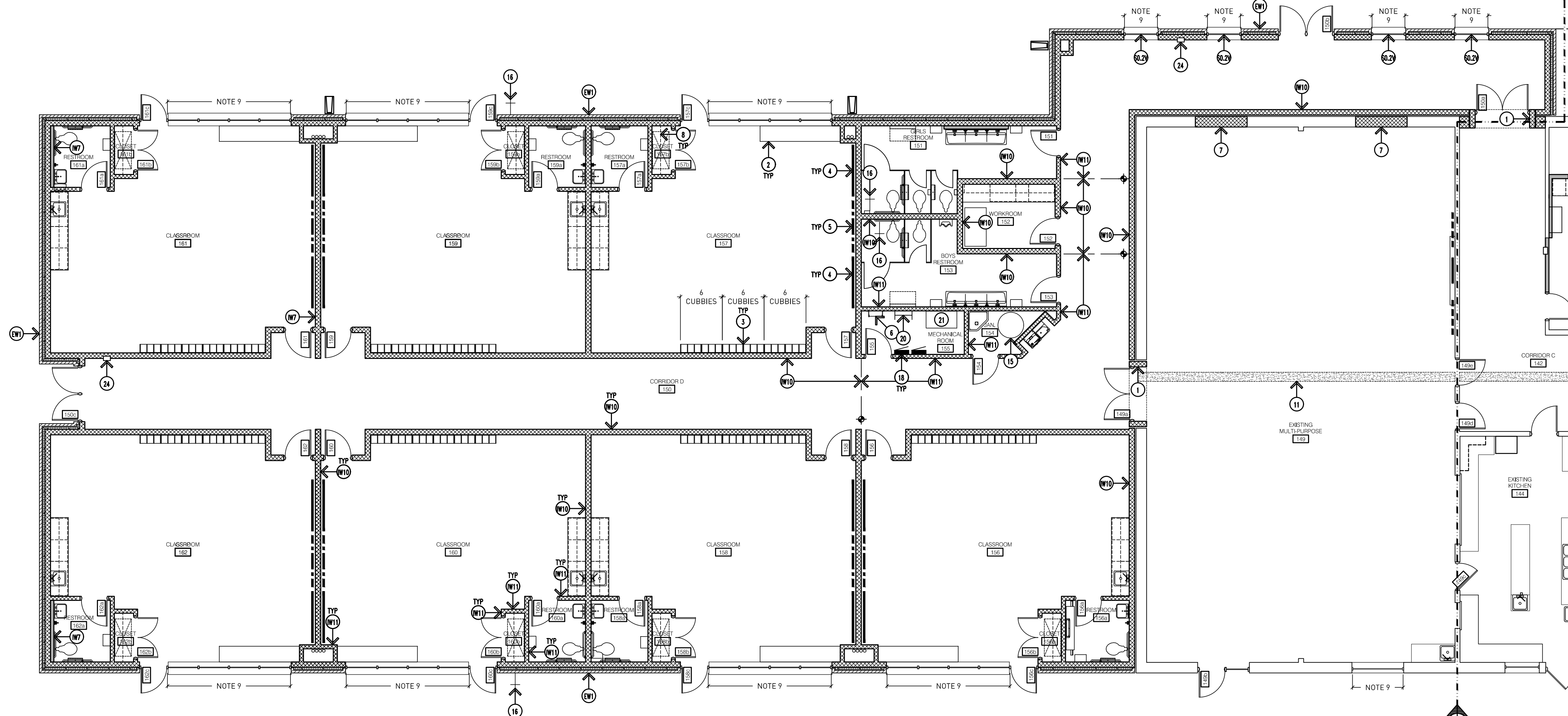
- IW1. METAL FURRING WALL IN RESTROOM
 - EXISTING WALL CONSTRUCTION OR 7 5/8" CMU.
 - 4" METAL STUD FRAMING AT 16" O.C. TO 4" ABOVE CEILING.
 - 5/8" CEMENTITIOUS BACKER BOARD.
 - WATERPROOF MEMBRANE (ANSI A118.10).
 - BOND COAT - REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS
 - CERAMIC WALL TILE
- IW2. METAL FURRING WALL AT WATER COOLER
 - EXISTING WALL CONSTRUCTION
 - 3" Z CHANNEL AT 16" O.C TO 4" ABOVE CEILING.
 - 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO 4" ABOVE CEILING.
- IW3. METAL STUD FIRE BARRIER, 2 HOUR FIRE-RATED CONSTRUCTION. UL DES U419 OR U491
 - 3/4" SHEETROCK ULTRACODE CORE GYPSUM PANEL TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK OR ADJACENT CMU WALL.
 - 3-1/2" 25 GA. METAL STUD FRAMING AT 24" O.C TO U/S OF ROOF DECK OR ADJACENT CMU WALL. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - MINIMUM 3" THERMAFIBER SAFB TO U/S OF ROOF DECK.
 - 3/4" SHEETROCK ULTRACODE CORE GYPSUM PANEL TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK OR ADJACENT CMU WALL.
- IW10. MASONRY WALL
 - 7 5/8" CMU WALL.
- IW11. MASONRY WALL
 - 5 5/8" CMU WALL.
- IW1. TYPICAL METAL STUD WALL CONSTRUCTION UNLESS NOTED OTHERWISE
 - 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
 - 3-5/8" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - MINIMUM 3" SOUND ATTENUATION BATTIS TO U/S OF ROOF DECK.
 - 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
- IW2. METAL STUD SOUND ACOUSTIC WALL - TEST NUMBER RAL-TL-84-136
 - 1/2" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK. GYPSUM SCREWS ATTACHED TO STUDS.
 - 3-5/8" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - MINIMUM 3" SOUND ATTENUATION BATTIS TO U/S OF ROOF DECK.
 - RC-1 CHANNEL INSTALLED ON ONE SIDE @ 24" O.C.
 - TWO (2) LAYERS 1/2" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO UNDERSIDE OF ROOF DECK. GYPSUM SCREWS ATTACHED TO RC-1 CHANNEL.
 - ACOUSTIC SEALANT AT TOP AND BOTTOM OF WALLS AND AT ALL PENETRATIONS.
- IW3. METAL STUD SECURE VESTIBULE WALL
 - 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
 - 3-5/8" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - MINIMUM 3" SOUND ATTENUATION BATTIS TO U/S OF ROOF DECK.
 - 5/16" BULLET RESISTANT FIBERGLASS PANEL.
 - 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
- IW4. METAL STUD WET WALL WITH CERAMIC TILE ON BOTH SIDES
 - CERAMIC WALL TILE TO 6'-9" AFF - REFER TO A8.52
 - BOND COAT TO 6'-9" AFF - REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS
 - WATERPROOF MEMBRANE (ANSI A118.10) TO 6'-9" AFF
 - 5/8" CEMENTITIOUS BACKER BOARD TO 6'-8" AFF
 - 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS FROM 6'-8 1/2" AFF TO U/S OF ROOF DECK.
 - 6" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS FROM 6'-8 1/2" AFF TO U/S OF ROOF DECK.
 - 5/8" CEMENTITIOUS BACKER BOARD TO 6'-8" AFF
 - WATERPROOF MEMBRANE (ANSI A118.10) TO 6'-9" AFF
 - BOND COAT TO 6'-9" AFF - REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS
 - CERAMIC WALL TILE TO 6'-9" AFF - REFER TO A8.52
- IW5. METAL STUD COMMON WALL BETWEEN JANITOR CLOSET AND WET WALL WITH CERAMIC TILE
 - 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
 - 6" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS FROM 6'-8 1/2" AFF TO U/S OF ROOF DECK.
 - 5/8" CEMENTITIOUS BACKER BOARD TO 6'-8" AFF
 - WATERPROOF MEMBRANE (ANSI A118.10) TO 6'-9" AFF
 - BOND COAT TO 6'-9" AFF - REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS
 - CERAMIC WALL TILE TO 6'-9" AFF - REFER TO A8.52
- IW6. EXISTING WALL CONSTRUCTION WITH CERAMIC TILE
 - EXISTING WALL CONSTRUCTION
 - 5/8" CEMENTITIOUS BACKER BOARD
 - WATERPROOF MEMBRANE (ANSI A118.10)
 - BOND COAT TO - REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS
 - CERAMIC WALL TILE

GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. COORDINATE THE TIMING OF WORK TO AVOID CONFLICTS WITH NORMAL SCHOOL OPERATIONS AND ACTIVITIES.
- G3. CONTRACTOR TO KEEP ALL AREAS NOT AFFECTED BY CONSTRUCTION OPERATIONS OPEN, CLEAN, AND FREE FOR OWNER USE.
- G4. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS IN FIELD PRIOR TO WORK COMMENCEMENT. IF ANY DISCREPANCIES EXIST BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD CONDITIONS, NOTIFY THE ARCHITECT.
- G5. ALL MASONRY TO MATCH EXISTING COURSE EXACTLY. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO WORK.
- G6. CONTRACTOR SHALL INSTALL HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- G7. CONTRACTOR TO INSTALL ADJUSTABLE BRICK VENEER ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY. FIELD VERIFY CAVITY SIZE TO PROVIDE CORRECT ANCHOR.
- G8. CONTRACTOR SHALL INSTALL A CONTINUOUS VAPOR BARRIER FROM FOUNDATION TO ROOFING. REFER TO SPECIFICATION FOR FURTHER INFORMATION.
- G9. ALL OUTSIDE CORNERS OF INTERIOR CMU MASONRY TO BE BULLNOSE.
- G10. ALL CORRIDOR WALLS TO BE CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE.
- G11. FIRE STOP ANY PENETRATIONS THROUGH FIRE WALLS AND BARRIERS.
- G12. MASONRY CONTROL JOINTS SHOULD BE SPACED 25'-0" APART MAX. AND SHOULD NOT BE SPACED FURTHER THAN 15x THE WALL HEIGHT - REFER TO THE MASONRY INSTITUTE FOR FURTHER INFORMATION.
- G13. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING THE WORK.
- G13. ALL INTERIOR WALLS TO BE CONSTRUCTED TO UNDERSIDE OF ROOF DECK. PROVIDE COMPRESSIVE FIRE SAFE MATERIAL (FIRE-RATED TO MEET CODE, AS REQUIRED) AT TOP OF WALL TO ALLOW FOR MINIMUM 1" ROOF DEFLECTION.
- G14. PROVIDE NON-COM WOOD BLOCKING AS REQUIRED TO INSTALL MISC. ACCESSORIES, IFP'S, MARKER BOARDS ETC WHETHER INDICATED OR NOT. VERIFY ALL LOCATIONS WITH OWNER AT A PRE-CONSTRUCTION MEETING.
- G15. CONTRACTOR TO COORDINATE CONDUIT RUNS AND TERMINATIONS ASSOCIATED WITH LOW-VOLTAGE COMMUNICATIONS, FIRE ALARM, SECURITY, ETC. AT A PRE-CONSTRUCTION MEETING.
- G16. ALL WALLS TO BE PAINTED UNLESS NOTED OTHERWISE.
- G17. PATCH AND REPAIR ALL EXPOSED SURFACES, WHETHER NOTED OR NOT, AT REMOVED ITEMS, REMOVED EQUIPMENT, REMOVED WALLS, CONSTRUCTION DAMAGE, ETC.

DRAWING NOTES:

1. PORTAL WALL SYSTEM PROVIDE MINIMUM 1" GAP AT ALL SIDES.
2. UNIT VENTILATOR. REFER TO MECHANICAL DRAWINGS.
3. PLASTIC LAMINATE CUBBIES. REFER TO INTERIOR ELEVATIONS AND SPECIFICATIONS.
4. VISUAL DISPLAY BOARD. REFER TO SPECIFICATIONS.
5. INTERACTIVE FLAT PANEL. FURNISHED AND INSTALLED BY TECHNOLOGY VENDOR.
6. WALL MOUNTED ROOF LADDER.
7. INFILL EXISTING EXTERIOR WALL OPENING. TOOTH IN EXTERIOR MASONRY AS REQUIRED TO MATCH ADJACENT WALL EXACTLY. PROVIDE INTERIOR FINISH TO MATCH EXISTING.
8. INSTALL TWO FIXED AND PAINTED SHELVES IN CLOSET, 83"-6" AND 9'-0" AFF.
9. SINGLE ROLLER WINDOW SHADE, ROOM DARKENING. REFER TO MATERIAL SCHEDULE AND SPECIFICATIONS.
10. SINGLE ROLLER WINDOW SHADE, 5% OPEN - REFER TO MATERIAL SCHEDULE AND SPECIFICATIONS.
11. TRENCH INFILL, MIN 4" THICK CONCRETE FLOOR SLAB ON 15 ML VAPOR BARRIER. TOP OF NEW CONCRETE TO BE FLUSH WITH EXISTING ADJACENT SLAB EXACTLY.
12. BOILER - REFER TO MECHANICAL.
13. WATER METER - REFER TO MECHANICAL.
14. FLOOR DRAIN - REFER TO MECHANICAL.
15. HOT WATER TANK - REFER TO MECHANICAL.
16. LOCKABLE HOSE BIB - REFER TO MECHANICAL.
17. MSB - REFER TO ELECTRICAL.
18. ELECTRICAL PANEL - REFER TO ELECTRICAL.
19. TMBD - REFER TO ELECTRICAL AND TECHNOLOGY.
20. TGB - REFER TO ELECTRICAL AND TECHNOLOGY.
21. DATA RACK - REFER TO TECHNOLOGY.
22. FIRE ALARM PANEL - REFER TO ELECTRICAL.
23. GROUNDING BAR - REFER TO ELECTRICAL.
24. SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH FIRE EXTINGUISHER.
25. EXISTING GAS METER.
26. INFILL INTERIOR WALL OPENING AS REQUIRED TO PROVIDE FLUSH APPEARANCE.
27. FIREPLACE DESIGN INTENT. PATCH AND REPAIR SURFACES AFTER REMOVAL OF MARBLE SURROUND AND BRASS INSERT. PAINT SURROUND AND FIREBOX FOR FINISHED APPEARANCE.
28. CLEAN, PATCH AND REPAIR LIMESTONE/BRICK AT REMOVED OR REPLACED EXTERIOR LIGHT FIXTURES.



1 Floor Plan (Area B)
Scale: 1/8"=1'-0"

EXTERIOR WALL TAGS:

- EW1.
 - 7 5/8" CMU MASONRY (PAINT ALL SURFACES EXPOSED TO VIEW).
 - 3" SPRAY FOAM BUILDING INSULATION OVER CONTINUOUS VAPOR BARRIER.
 - 1 1/4" SPACE.
 - 3 5/8" BRICK VENEER WITH ADJACENT BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).



Bidding and Permits: 31 July 2023

Floor Plan (Area B)



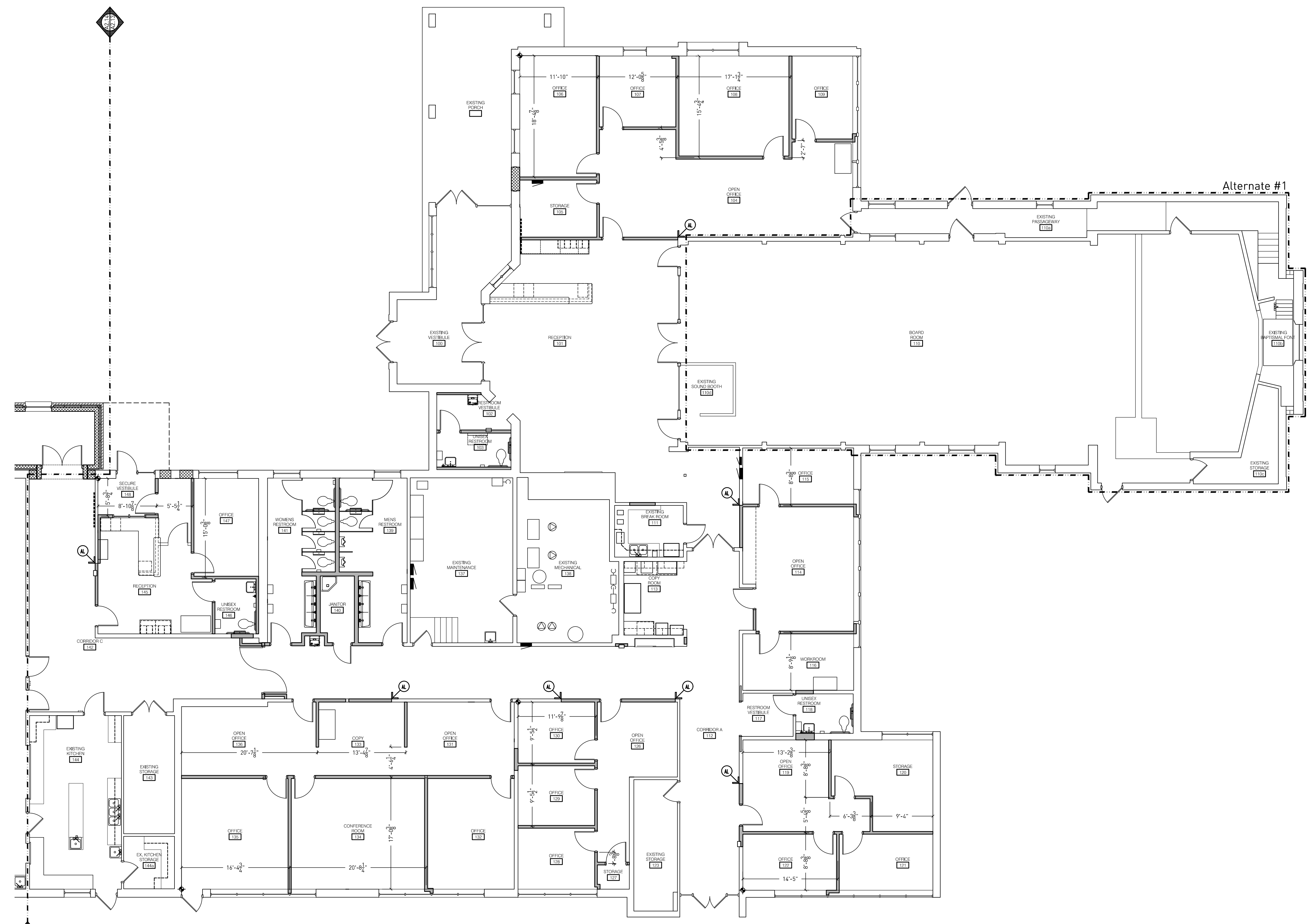
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A2.12



- GENERAL NOTES:**
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
 - G2. ALL EXTERIOR WALLS ARE 1'-3 1/2" UNLESS DIMENSIONED OTHERWISE.
 - G3. ALL DOORS ARE LOCATED 4" TO HINGE SIDE FROM ADJACENT WALL UNLESS DIMENSIONED OTHERWISE.
 - G4. ALL MASONRY DIMENSIONS ARE TO FACE OF WALL.
 - G5. ALL STUD FRAMING DIMENSIONS ARE TO THE CENTER OF WALL.



1 Dimension Plan (Area A)
 A2.13 Scale: 1/8"=1'-0"



Bidding and Permits: 31 July 2023

Dimension Plan (Area A)

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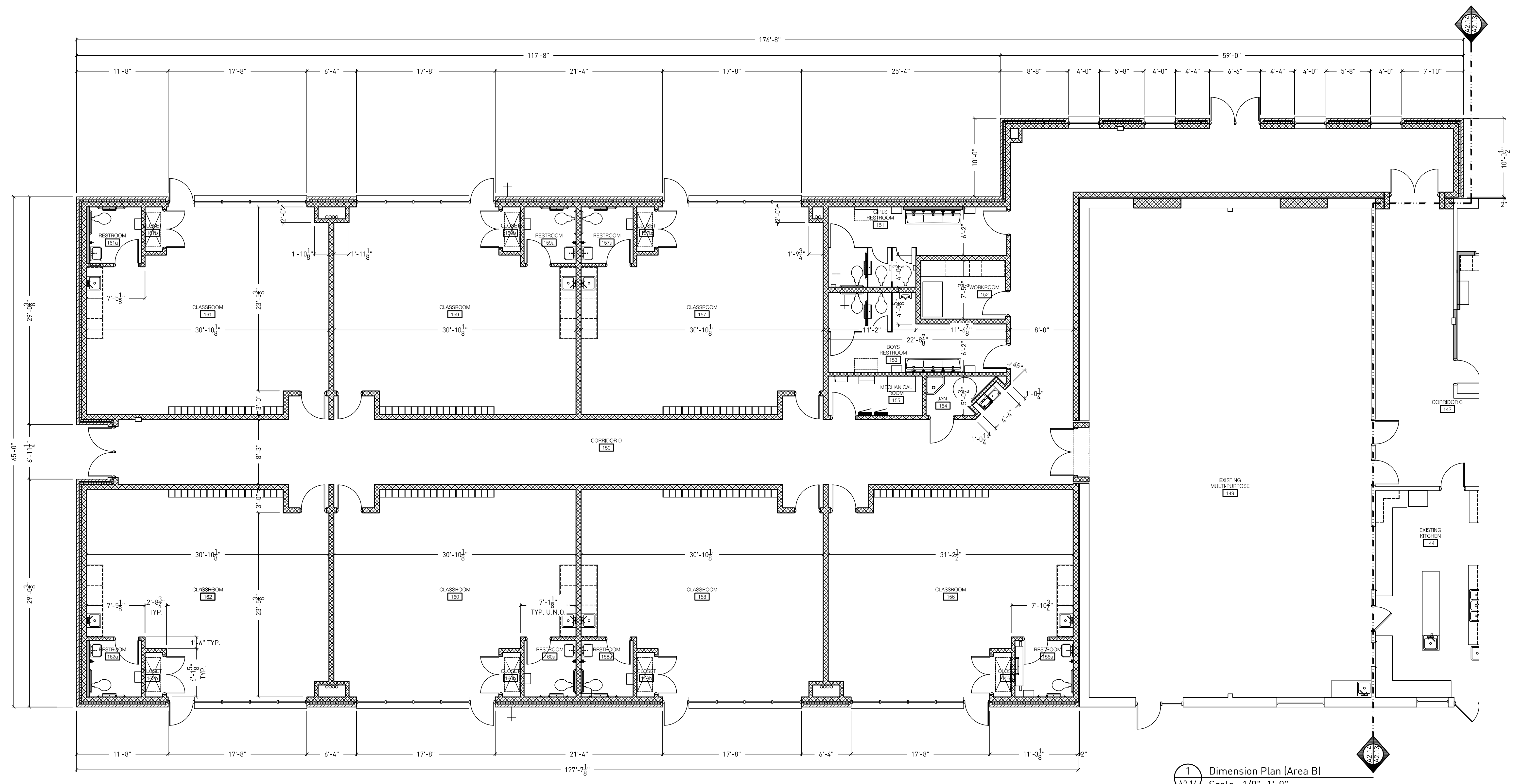
Crestwood School District
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A2.13



- GENERAL NOTES:**
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
 - G2. ALL EXTERIOR WALLS ARE 1'-3 1/2" UNLESS DIMENSIONED OTHERWISE.
 - G3. ALL DOORS ARE LOCATED 4" TO HINGE SIDE FROM ADJACENT WALL UNLESS DIMENSIONED OTHERWISE.
 - G4. ALL MASONRY DIMENSIONS ARE TO FACE OF WALL.
 - G5. ALL STUD FRAMING DIMENSIONS ARE TO THE CENTER OF WALL.



1 Dimension Plan (Area B)
Scale: 1/8"=1'-0"



Bidding and Permits: 31 July 2023

Dimension Plan (Area B)

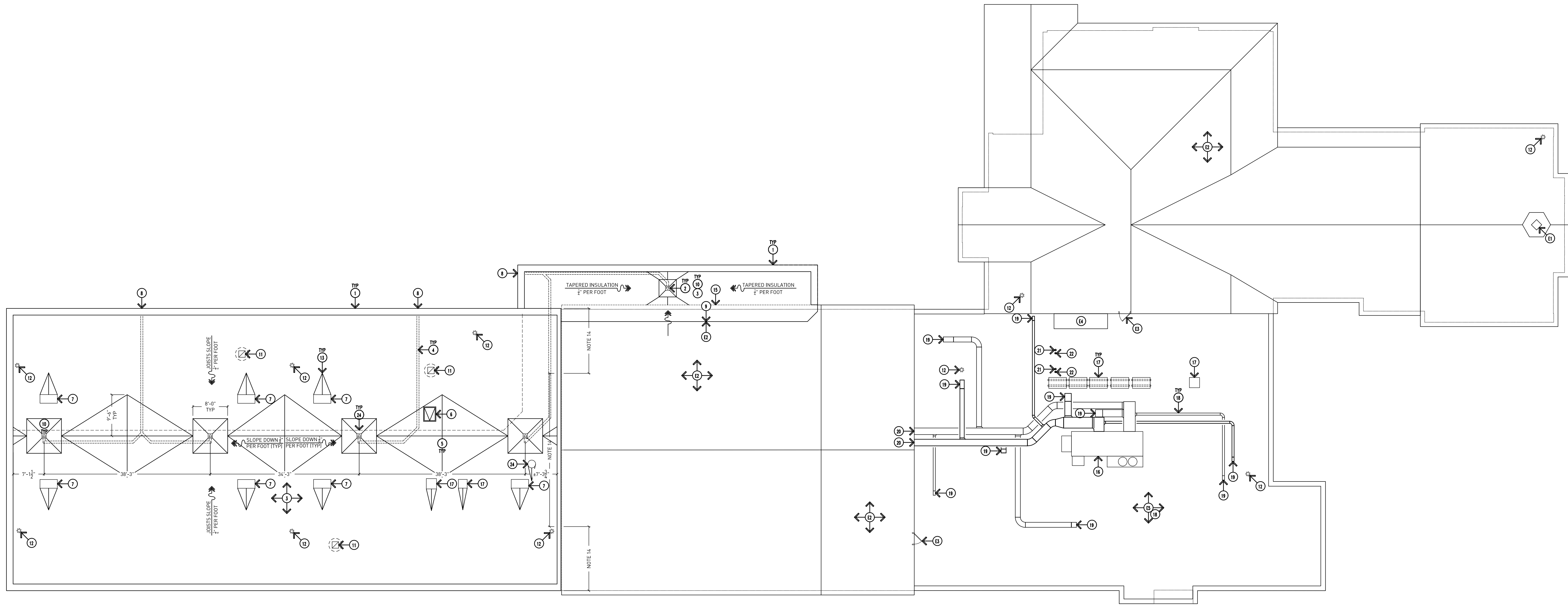
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Project No. 3221

A2.14





1 Composite Roof Plan
 A2.50 Scale: 3/32"=1'-0"

DRAWING NOTES CONTINUE:

15. ROOF TO ROOF EXPANSION JOINT.
16. ROOF MOUNTED ERU - REFER TO MECHANICAL AND STRUCTURAL.
17. ROOF MOUNTED ACCU - REFER TO MECHANICAL.
18. ROOF TOP DUCTWORK - REFER TO MECHANICAL FOR ROUTING AND LOCATIONS.
19. ROOF CURB AT DUCT PENETRATION - REFER TO MECHANICAL AND STRUCTURAL FOR MORE INFORMATION.
20. THROUGH WALL DUCT PENETRATION - REFER TO MECHANICAL AND STRUCTURAL FOR MORE INFORMATION.
21. BOILER INTAKE - REFER TO MECHANICAL.
22. BOILER FLUE - REFER TO MECHANICAL.
23. ROOF MOUNTED IH - REFER TO MECHANICAL.
24. WALL BEARING BELOW - MAKE NOTE TO NOT SET THE ROOF DRAINS ON TOP OF THE WALL.

DRAWING NOTES:

1. PREFINISHED METAL CAP FLASHING WITH CONTINUOUS CLIP ANCHORS ON BOTH SIDES.
2. COMBINATION ROOF SUMP / OVERFLOW -- REFER TO MECHANICAL DRAWINGS.
3. SINGLE-PLY MECHANICALLY FASTENED MEMBRANE ON ROOF INSULATION.
4. APPROXIMATE LOCATION OF DRAIN AND OVERFLOW PIPING BELOW ROOF -- REFER TO MECHANICAL DRAWINGS. THE OVERFLOW AND DRAIN ARE STACKED ON TOP OF EACH OTHER WITH THE OVERFLOW ON TOP.
5. HINGED TARGET SUMP PER MANUFACTURER STANDARDS.
6. 30' x 36" ROOF HATCH -- COORDINATE WITH ROOF STRUCTURE.
7. ROOF MOUNTED GRH - REFER TO MECHANICAL.
8. TONGUE AT THRU-WALL LOCATION OF OVERFLOW DRAIN CONDUCTOR PIPING -- REFER TO MECHANICAL DRAWINGS.
9. TIE NEW ROOFING INTO EXISTING.
10. TAPERED INSULATION FOR SLOPE TO ROOF DRAIN.
11. ROOF MOUNTED EF - REFER TO MECHANICAL.
12. VENT THRU ROOF -- REFER TO MECHANICAL FOR FURTHER INFORMATION.
13. PROVIDE SADDLE TO DIRECT WATER AROUND PENETRATION.
14. WALL TO CURB BELLOWS EXPANSION JOINT.

GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. 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.
- G3. ALL CURBS, FLASHINGS, ETC. SHALL BE FURNISHED AND INSTALLED TO BE COMPATIBLE WITH THE ROOFING SYSTEM AND AT HEIGHT REQUIRED TO MAINTAIN ROOFING WARRANTY.
- G4. ROOF INSULATION TO BE INSTALLED IN MINIMUM 2 LAYERS -- REFER TO SPECIFICATIONS.
- G5. ROOFING IN ALL LOCATIONS TO CARRY UP FACE OF PARAPET WALL AND OVER THE TOP -- REFER TO SECTIONS FOR FURTHER DETAIL.
- G6. ALL EXISTING ITEMS ARE TO REMAIN UNLESS NOTED OTHERWISE.
- G7. EXISTING CONDITIONS ARE SHOWN FOR REFERENCE ONLY.

EXISTING TO REMAIN:

- E1. STEEPLE.
- E2. PITCHED ASPHALT SHINGLE ROOF.
- E3. ATTIC ACCESS DOOR.
- E4. CHIMNEY.
- E5. FLAT EPDM ROOF.



Bidding and Permits: 31 July 2023

Composite Roof Plan



Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

A2.50



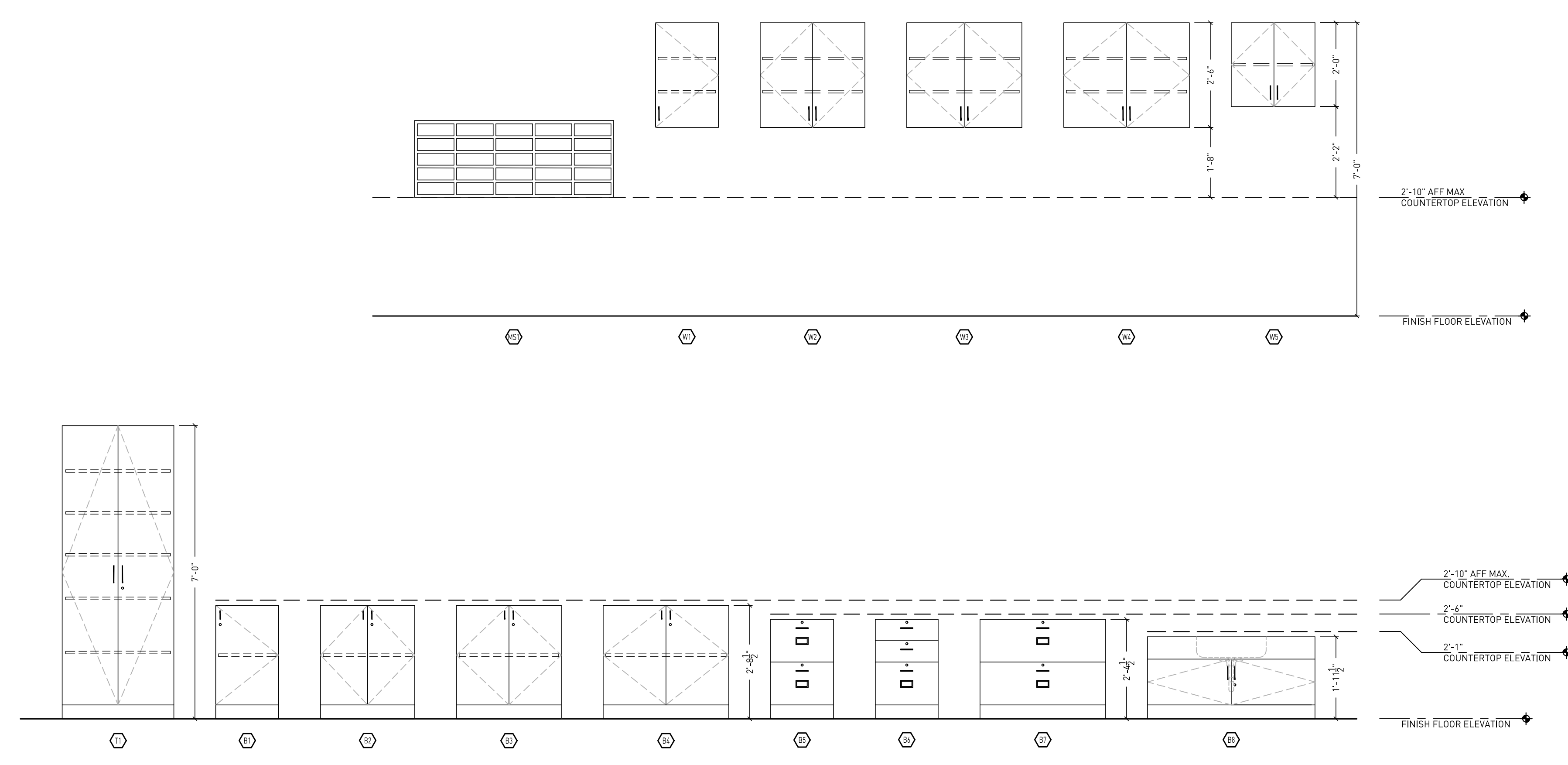
GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. COORDINATE ALL DIMENSIONS WITH MILLWORK FABRICATOR.
- G3. PROVIDE FINISHED END PANELS WHEN EXPOSED TO VIEW (TO MATCH CABINET).
- G4. PROVIDE WALL BASE AT ALL CABINET TOE KICKS AND FINISHED END PANELS ON BASE CABINETS.
- G5. PROVIDE MINIMUM CLEARANCES PER BARRIER-FREE CODE.
- G6. PROVIDE FILLER PIECES AS REQUIRED FOR CLEARANCE TO SUIT CONDITIONS.
- G7. REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR CABINET FINISHES.
- G8. MILLWORK CONTRACTOR TO REFER TO INTERIOR ELEVATIONS (SHEETS A5.02 - A5.03) FOR CABINET DOOR OPERATION AND HINGE LOCATION.
- G9. MODEL NUMBER INDICATED UNDER "BASIS OF DESIGN" IS FOR GENERAL INTENT ONLY. CONTRACTOR TO REFER TO SCHEDULE FOR PROJECT SIZES, CABINET NOTES FOR FURTHER INFORMATION, AND INTERIOR ELEVATIONS FOR PROJECT INTENT.

CABINET NOTES:

- C1. PROVIDE FULL DEPTH ADJUSTABLE SHELF/SHELVES.
- C2. FINISHED BOTTOM - TO MATCH CABINET
- C3. FINISHED END PANEL WHEN EXPOSED TO VIEW - TO MATCH CABINET
- C4. PROVIDE 4" RUBBER BASE AT ALL CABINET TOE KICKS AND FINISHED END PANELS.
- C5. PROVIDE HANGING KIT FOR FILE FOLDERS.
- C6. MAIL SLOT CABINET TO HAVE MATCHING INTERIOR

CABINET SCHEDULE						
NO.	DESCRIPTION	HEIGHT (IN)	DEPTH (IN)	LOCK	STEVENS MODEL NO. (BASIS OF DESIGN)	REMARKS
B2	27" BASE CABINET WITH DOOR	32-1/2"	24"	YES	10129	C1, C3, C4
B3	30" BASE CABINET WITH DOORS	32-1/2"	24"	YES	10129	C1, C3, C4
B4	36" BASE CABINET WITH DOORS	32-1/2"	24"	YES	10129	C1, C3, C4
B5	18" BASE FILE / FILE CABINET	28-1/2"	24"	YES	10316	C1, C3, C4, C5
B6	18" BASE BOX / BOX / FILE CABINET	28-1/2"	24"	YES	10313	C1, C3, C4, C5
B7	36" BASE LATERAL FILE CABINET	28-1/2"	24"	YES	10318	C1, C3, C4, C5
B8	48" SINK BASE CABINET WITH DOORS AND FALSE FRONT	23-1/2"	24"	YES	10479	C4
MS1	47" MAIL SLOT CABINET WITH 25 SLOTS	22"	15"	NO	15252	C3, C6
W1	18" WALL CABINET WITH DOOR	30"	12"	YES	15120	C1, C2, C3
W2	30" WALL CABINET WITH DOORS	30"	12"	YES	15129	C1, C2, C3
W3	33" WALL CABINET WITH DOORS	30"	12"	YES	15129	C1, C2, C3
W4	36" WALL CABINET WITH DOORS	30"	12"	YES	15129	C1, C2, C3
W5	24" WALL CABINET WITH DOORS	24"	12"	YES	15129	C1, C2, C3
T1	32" OSRP CLASSROOM STORAGE CABINET	84"	16"	YES	25129	C1, C3, C4

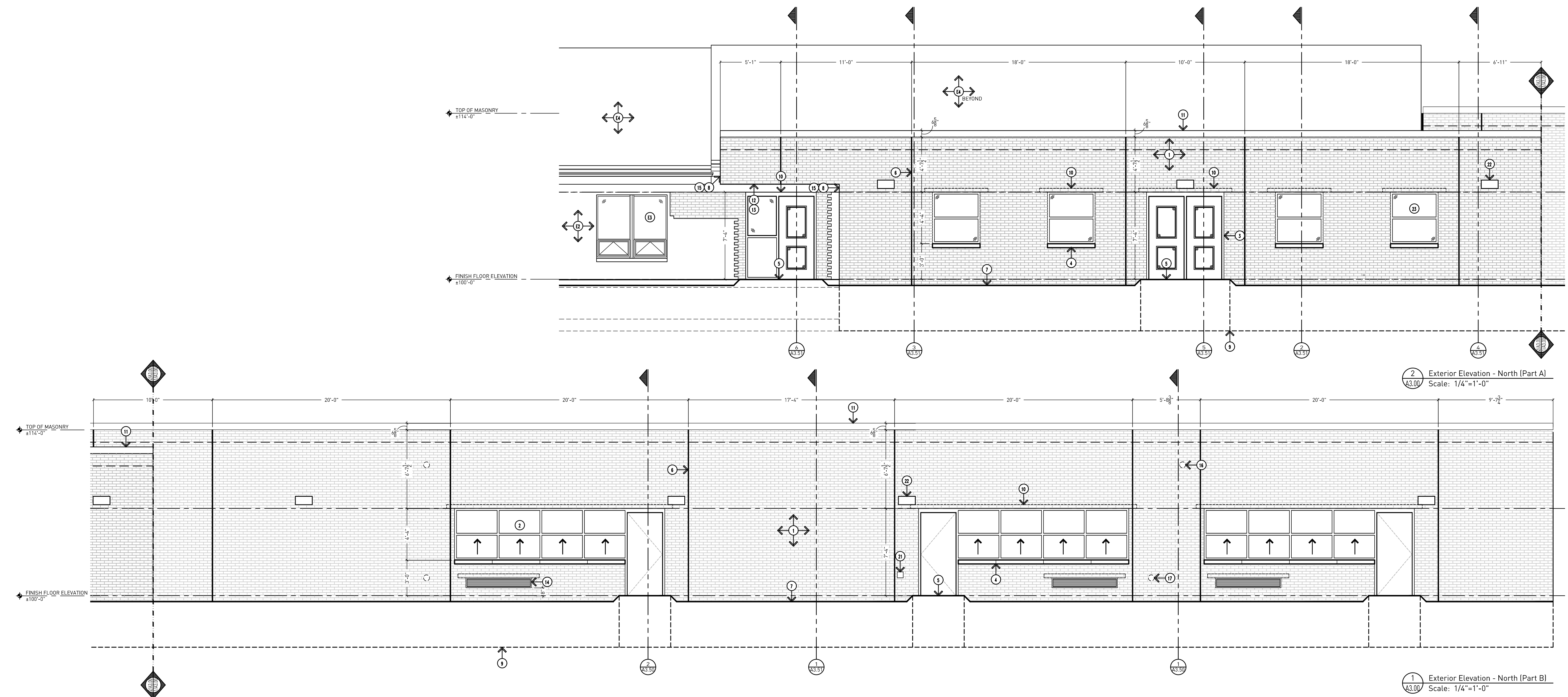


Bidding and Permits: 31 July 2023



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221 A2.80



2 Exterior Elevation - North (Part A)
Scale: 1/4"=1'-0"

1 Exterior Elevation - North (Part B)
Scale: 1/4"=1'-0"

DRAWING NOTES CONTINUED:

15. BUILDING JOINT COVER - REFER TO DETAILS.
16. ROOF OVERFLOW PIPING THROUGH WALL WITH "COW TONGUE".
17. RAIN CONDUCTOR PIPING THROUGH WALL WITH "COW TONGUE" AND CONCRETE SPLASH BLOCK.
18. CLEAR ANODIZED INSULATED METAL PANEL WITH SMOOTH FINISH. - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
19. FIXED INSULATED GLASS UNIT IN EXISTING FRAME. TYPE IG-1 - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
20. FIXED INSULATED GLASS UNITS (TYPE IG-1) IN CLEAR ALUMINUM STOREFRONT FRAMING - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
21. EXTERIOR WALL HYDRANT WITH LOCKING COVER - REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
22. WALL MOUNTED LED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
23. FIXED INSULATED GLASS UNITS (TYPE IG-1) IN CLEAR ALUMINUM STOREFRONT FRAMING - REFER TO DOOR SCHEDULE AND SPECIFICATIONS.
24. FIXED INSULATED GLASS UNITS (TYPE IG-1), FRP DOOR AND INSULATED METAL PANEL IN CLEAR ALUMINUM STOREFRONT FRAMING - REFER TO DOOR SCHEDULE AND SPECIFICATIONS.

DRAWING NOTES:

1. 4" BRICK VENEER TO MATCH EXISTING, COLOR, TEXTURE, PATTERN, AND COURSING. INSTALL HEADER COURSE EVERY 6 ROWS OF BRICK - MATCH BOND COURSING EXACTLY.
2. VERTICAL LIFT INSULATED GLASS UNITS (TYPE IG-1 AND FRP DOOR) IN CLEAR ALUMINUM STOREFRONT FRAMING - REFER TO DOOR SCHEDULE AND SPECIFICATIONS.
3. DOOR, FRAME, HARDWARE, AND FINISH - REFER TO DOOR SCHEDULE AND SPECIFICATIONS FOR FURTHER INFORMATION.
4. LIMESTONE 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. BRICK LINTEL - REFER TO STRUCTURAL DRAWINGS
11. PREFINISHED METAL PARAPET CAP FLASHING WITH CONTINUOUS CLEATS ON BOTH SIDES.
12. CEMENT PLASTER SOFFIT.
13. STEEL LINTEL - PAINTED. REFER TO STRUCTURAL DRAWINGS AND WALL SECTIONS.
14. LOUVER, WITH MASONRY LINTEL OVER OPENING - REFER TO MECHANICAL FOR LOUVER SIZE.

GENERAL NOTES:

- G13. ALL FLEXIBLE MEMBRANE FLASHING TO BE SECURED TO SUBSTRATE WITH STAINLESS STEEL TERMINATION BAR AND SEALANT INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- G14. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL WINDOW AND DOOR OPENINGS. DRIP TO STOP AT WINDOW/DOOR OPENING (DO NOT EXTEND BEYOND).
- G15. PROVIDE END DAMS AT ALL FLASHING ABOVE WINDOWS, DOORS, AND BELOW SILLS.
- G16. AT AREAS ADJACENT TO NEW BUILDING, INSTALL GRADE 6" BELOW FINISH FLOOR AND SLOPE AWAY FROM BUILDING TO MEET CODE REQUIREMENTS. MATCH ALL EXISTING SIDEWALK AND PARKING ELEVATIONS.
- G17. MATCH EXISTING COURSING EXACTLY - C.F.V.
- G18. MATCH EXISTING MORTAR COLOR EXACTLY - C.F.V.

EXISTING TO REMAIN:

- E1. DOOR, FRAME, AND HARDWARE.
- E2. BRICK VENEER.
- E3. PREFINISHED ALUMINUM WINDOW.
- E4. ASPHALT SHINGLE ROOF.
- E5. ATTIC VENT.
- E6. DOWNSPOUT.
- E7. LINE OF EXISTING BUILDING.

GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. ALL NOTES MAY NOT APPLY TO THIS SHEET.
- G3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G4. PROTECT ALL ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G5. 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.
- G11. PROVIDE WEEP VENTS AT 32" O.C. AT BOTTOM AND TOP OF WALLS COMPLETE WITH 3/8" x 1 1/2" PLASTIC WEEP VENT. PROVIDE MEMBRANE FLASHING AT ALL BASE OF WALL DRAINAGE LOCATIONS, MIN 6" ABOVE FINISH GRADE.
- G12. PROVIDE ADJUSTABLE BRICK ANCHORS AT 16" O.C. VERTICALLY AND HORIZONTALLY.



Exterior Elevations

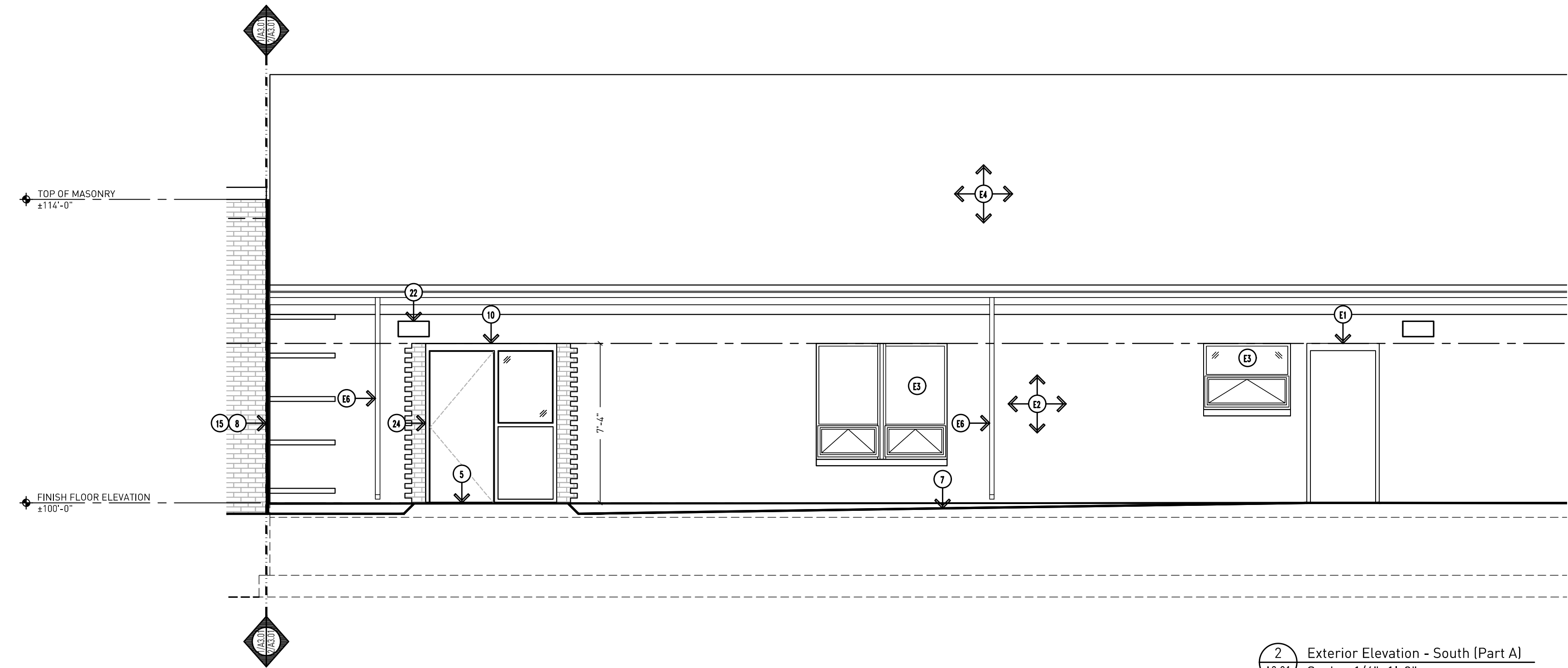


Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

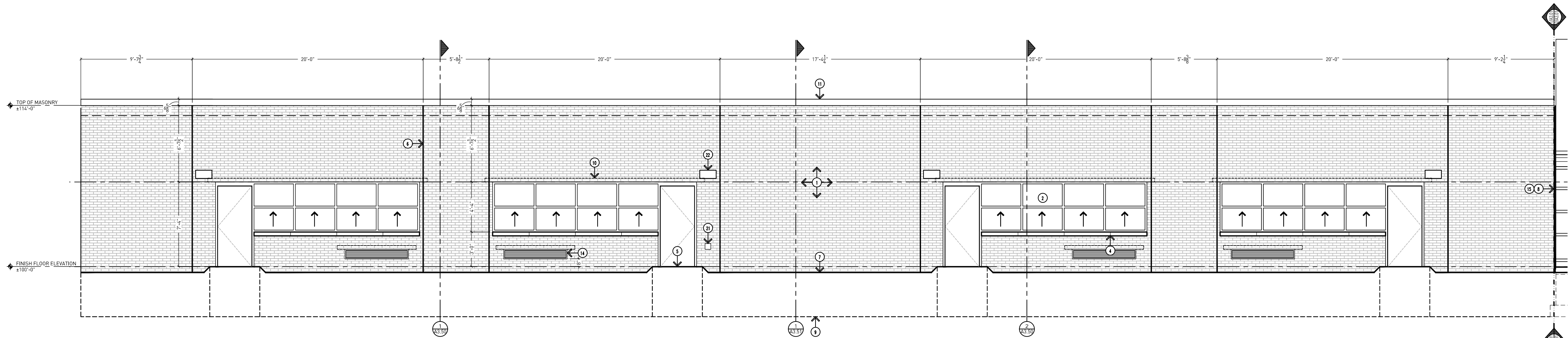
Project No. 3221

A3.00

Bidding and Permits: 31 July 2023



2 Exterior Elevation - South (Part A)
Scale: 1/4"=1'-0"



1 Exterior Elevation - South (Part B)
Scale: 1/4"=1'-0"

DRAWING NOTES CONTINUED:

15. BUILDING JOINT COVER - REFER TO DETAILS.
16. ROOF OVERFLOW PIPING THROUGH WALL WITH "COW TONGUE".
17. RAIN CONDUCTOR PIPING THROUGH WALL WITH "COW TONGUE" AND CONCRETE SPLASH BLOCK.
18. CLEAR ANODIZED INSULATED METAL PANEL WITH SMOOTH FINISH. - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
19. FIXED INSULATED GLASS UNIT IN EXISTING FRAME. TYPE IG-1 - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
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21. EXTERIOR WALL HYDRANT WITH LOCKING COVER - REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
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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.
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8. CONTROL JOINT BETWEEN BUILDINGS.
9. LINE OF FOUNDATION - REFER TO STRUCTURAL DRAWINGS.
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GENERAL NOTES:

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EXISTING TO REMAIN:

- E1. DOOR, FRAME, AND HARDWARE.
- E2. BRICK VENEER.
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- E5. ATTIC VENT.
- E6. DOWNSPOUT.
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GENERAL NOTES:

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Bidding and Permits: 31 July 2023

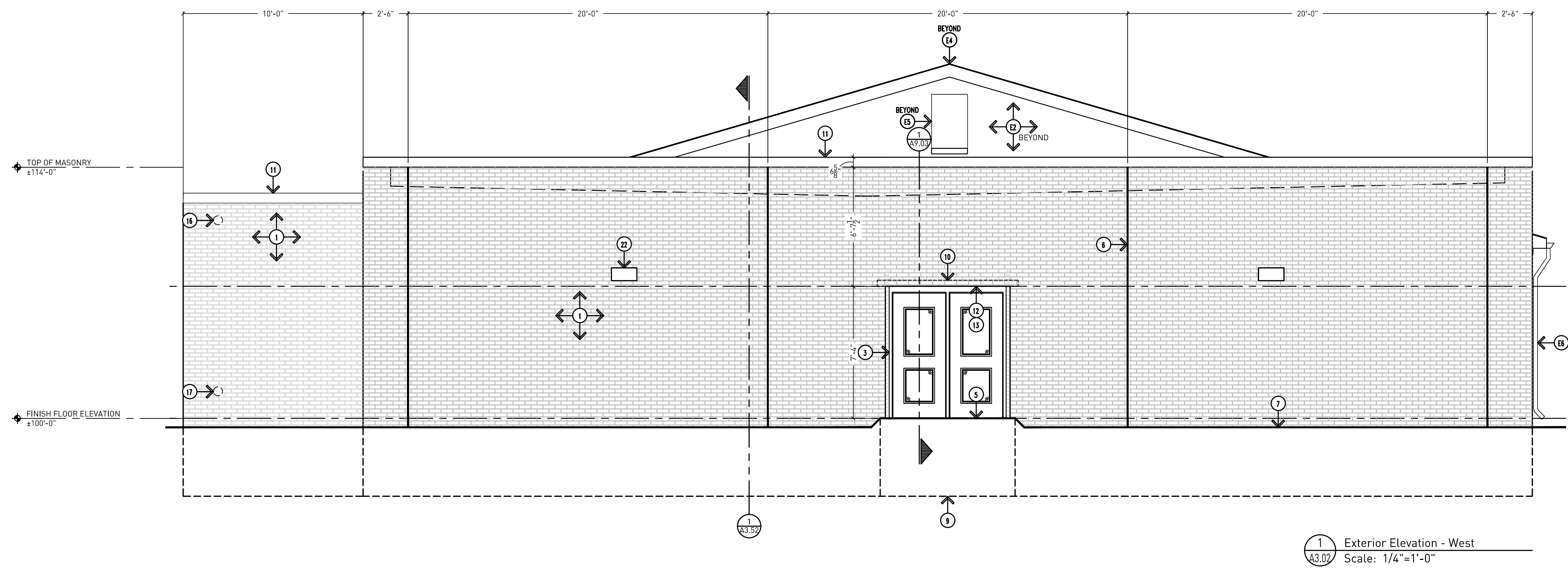
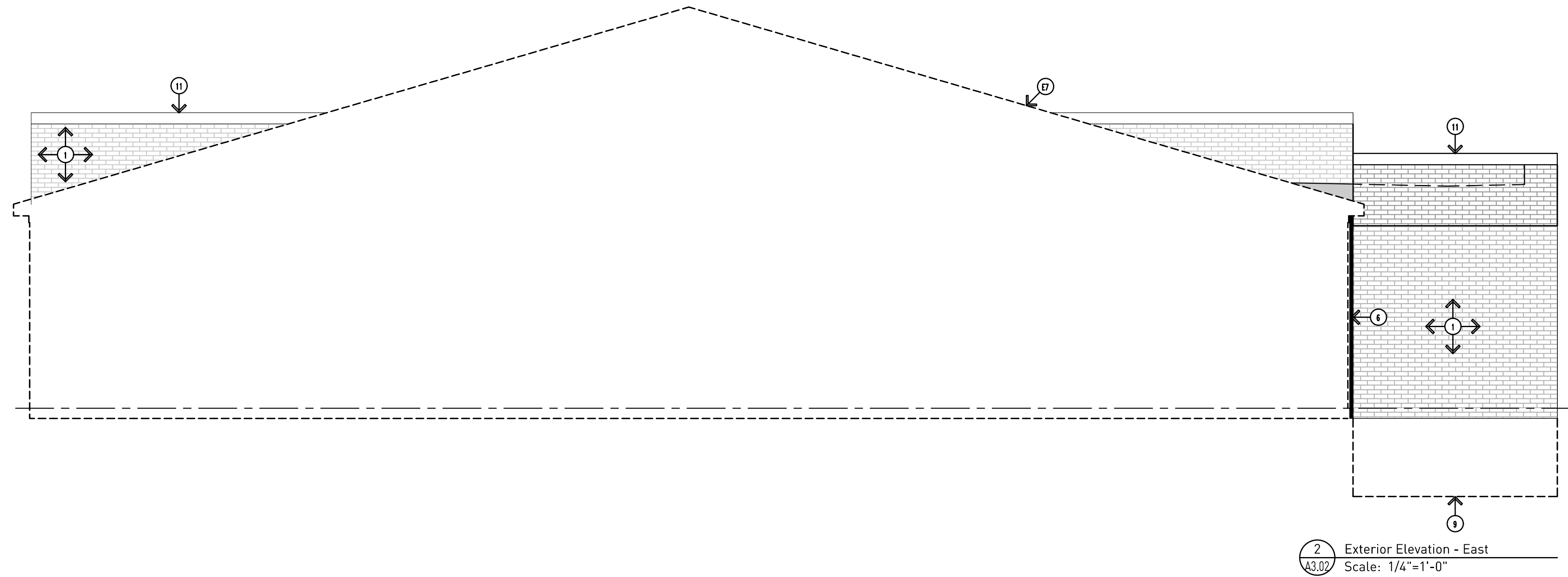
Exterior Elevations



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A3.01



DRAWING NOTES CONTINUED:

15. BUILDING JOINT COVER - REFER TO DETAILS.
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EXISTING TO REMAIN:

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- G12. PROVIDE ADJUSTABLE BRICK ANCHORS AT 16" O.C. VERTICALLY AND HORIZONTALLY.



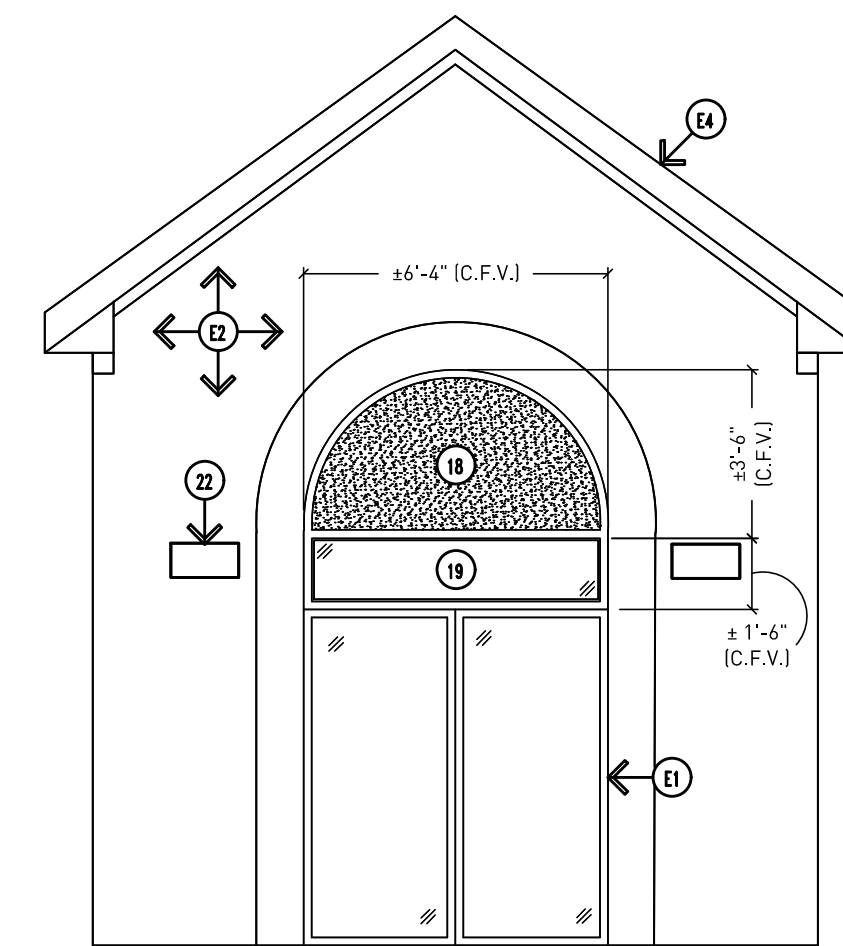
Exterior Elevations



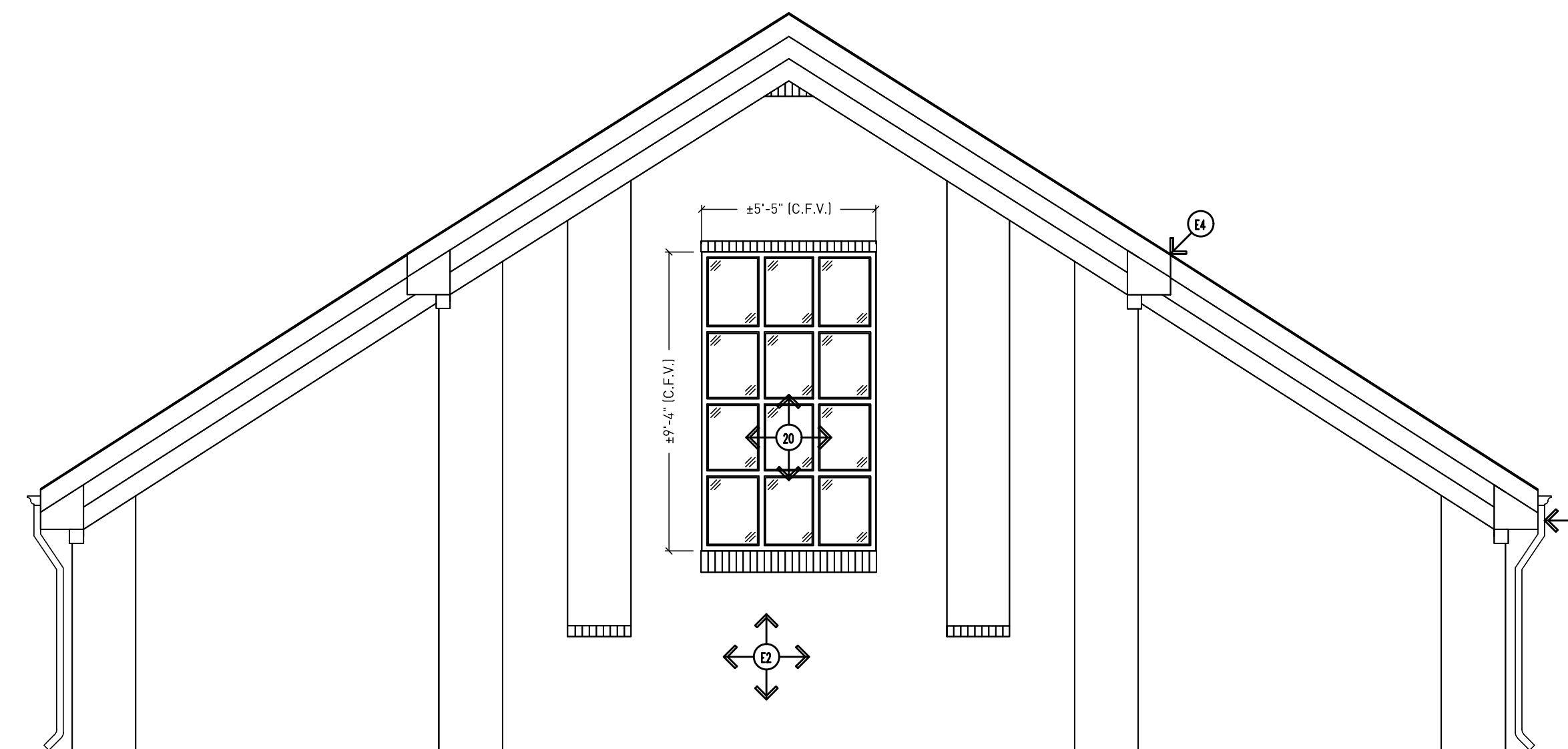
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A3.02



2 Existing Exterior Elevation - West
Scale: 1/4"=1'-0"



1 Existing Exterior Elevation - East
Scale: 1/4"=1'-0"

DRAWING NOTES CONTINUED:

15. BUILDING JOINT COVER - REFER TO DETAILS.
16. ROOF OVERFLOW PIPING THROUGH WALL WITH "COW TONGUE".
17. RAIN CONDUCTOR PIPING THROUGH WALL WITH "COW TONGUE" AND CONCRETE SPLASH BLOCK.
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21. EXTERIOR WALL HYDRANT WITH LOCKING COVER - REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
22. WALL MOUNTED LED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
23. FIXED INSULATED GLASS UNITS (TYPE IG-1) IN CLEAR ALUMINUM STOREFRONT FRAMING - REFER TO DOOR SCHEDULE AND SPECIFICATIONS.
24. FIXED INSULATED GLASS UNITS (TYPE IG-1), FRP DOOR AND INSULATED METAL PANEL IN CLEAR ALUMINUM STOREFRONT FRAMING - REFER TO DOOR SCHEDULE AND SPECIFICATIONS.

DRAWING NOTES:

1. 4" BRICK VENEER TO MATCH EXISTING, COLOR, TEXTURE, PATTERN, AND COURSING. INSTALL HEADER COURSE EVERY 4 ROWS OF BRICK - MATCH BOND COURSING EXACTLY.
2. VERTICAL LIFT INSULATED GLASS UNITS: (TYPE IG-1 AND FRP DOOR) IN CLEAR ALUMINUM STOREFRONT FRAMING - REFER TO DOOR SCHEDULE AND SPECIFICATIONS.
3. DOOR, FRAME, HARDWARE, AND FINISH - REFER TO DOOR SCHEDULE AND SPECIFICATIONS FOR FURTHER INFORMATION.
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Bidding and Permits: 31 July 2023

Exterior Elevations



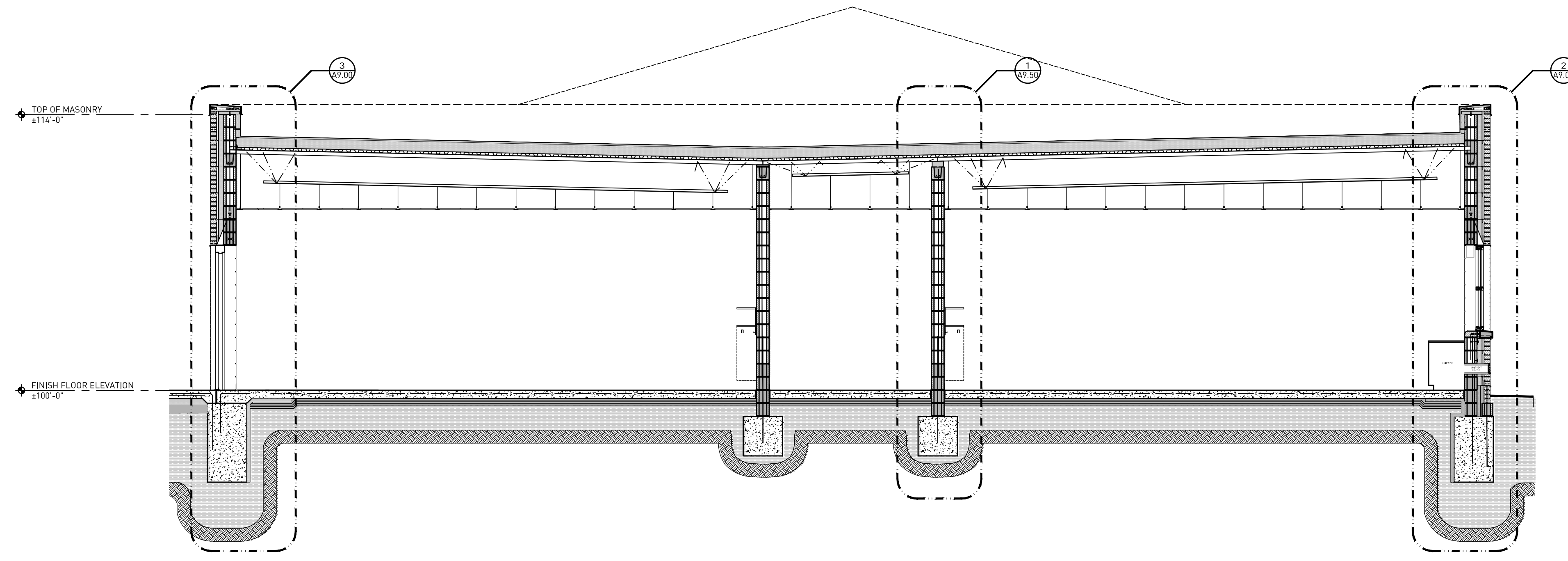
Crestwood School District
Cherry Hill Baptist Church
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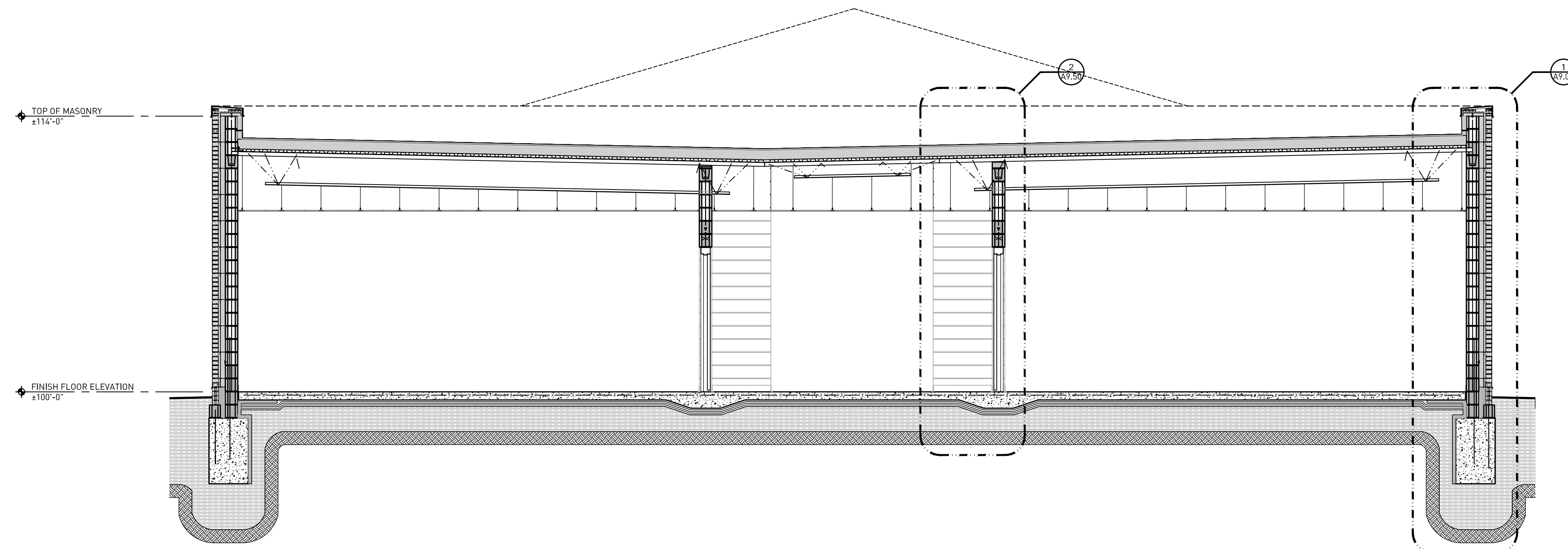
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GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. BUILDING SECTIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. REFER TO FLOOR PLANS, INTERIOR AND EXTERIOR WALL SECTIONS, ETC. FOR MORE DETAILED INFORMATION, MATERIALS, DIMENSIONS, ETC.
- G3. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION REGARDING FLOOR AND ROOF FRAMING SYSTEMS.



2 Building Section B - North/South (Area B)
Scale: 1/4"=1'-0"



1 Building Section A - North/South (Area B)
Scale: 1/4"=1'-0"



Bidding and Permits: 31 July 2023

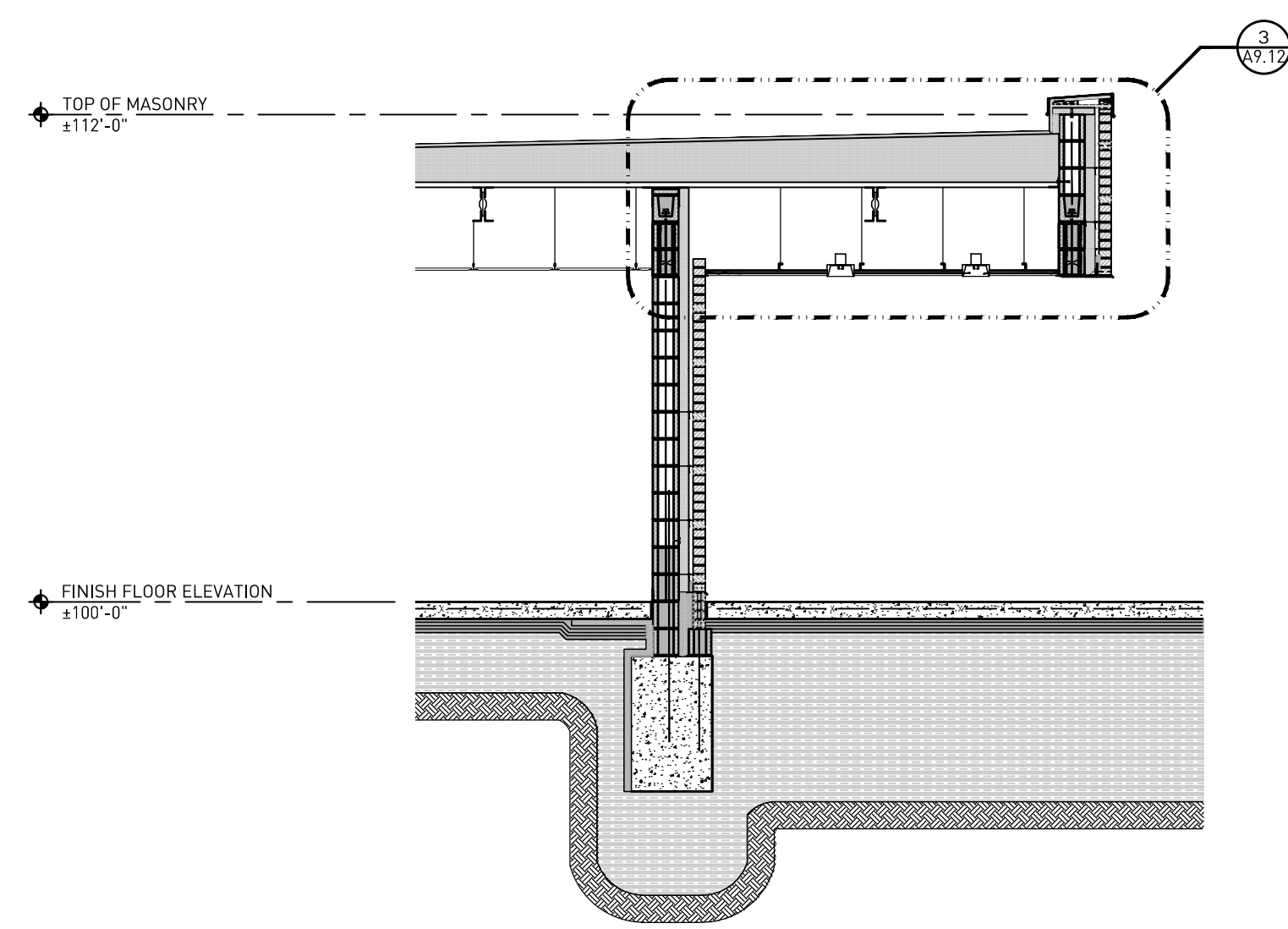
Building Sections



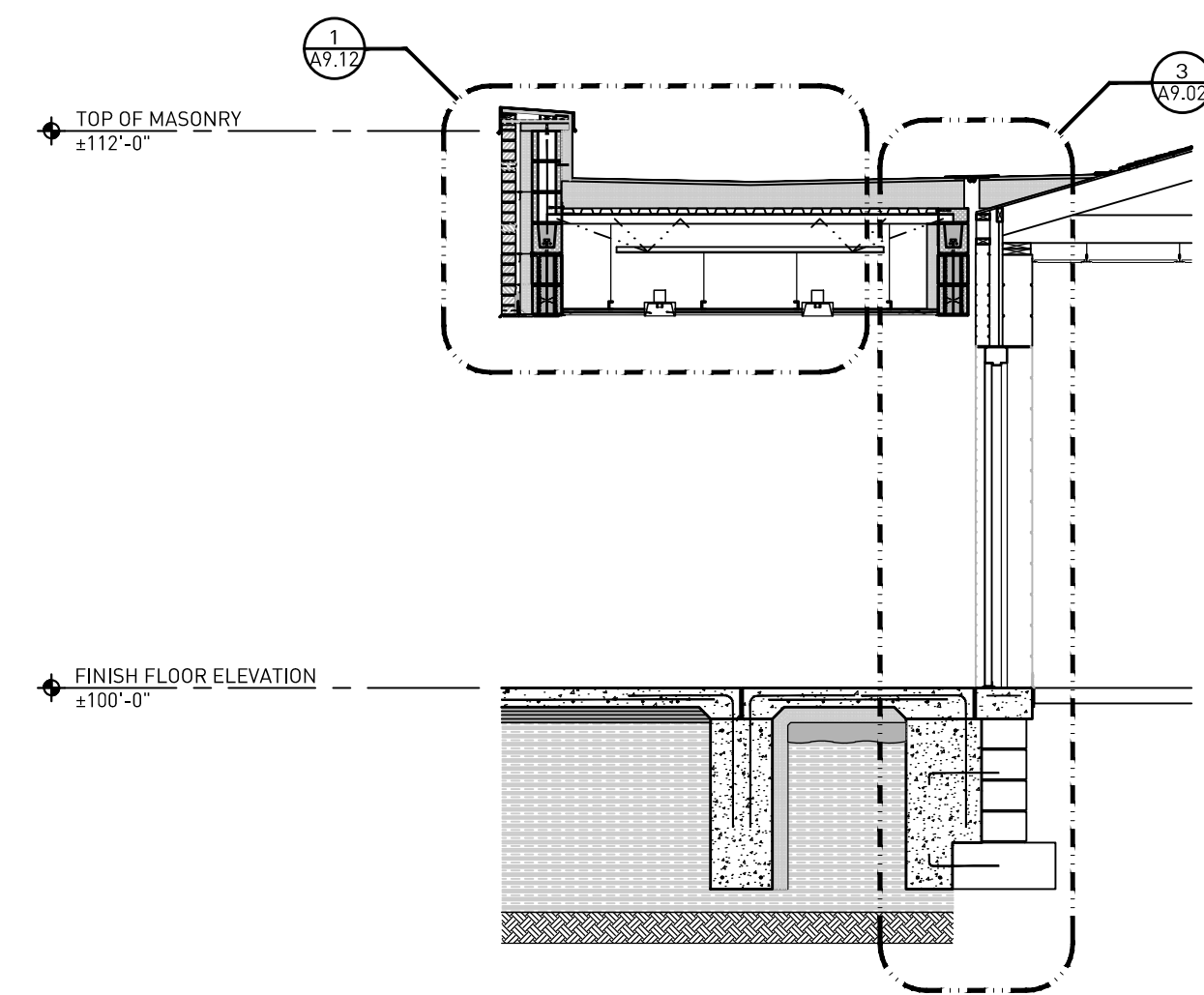
Crestwood School District
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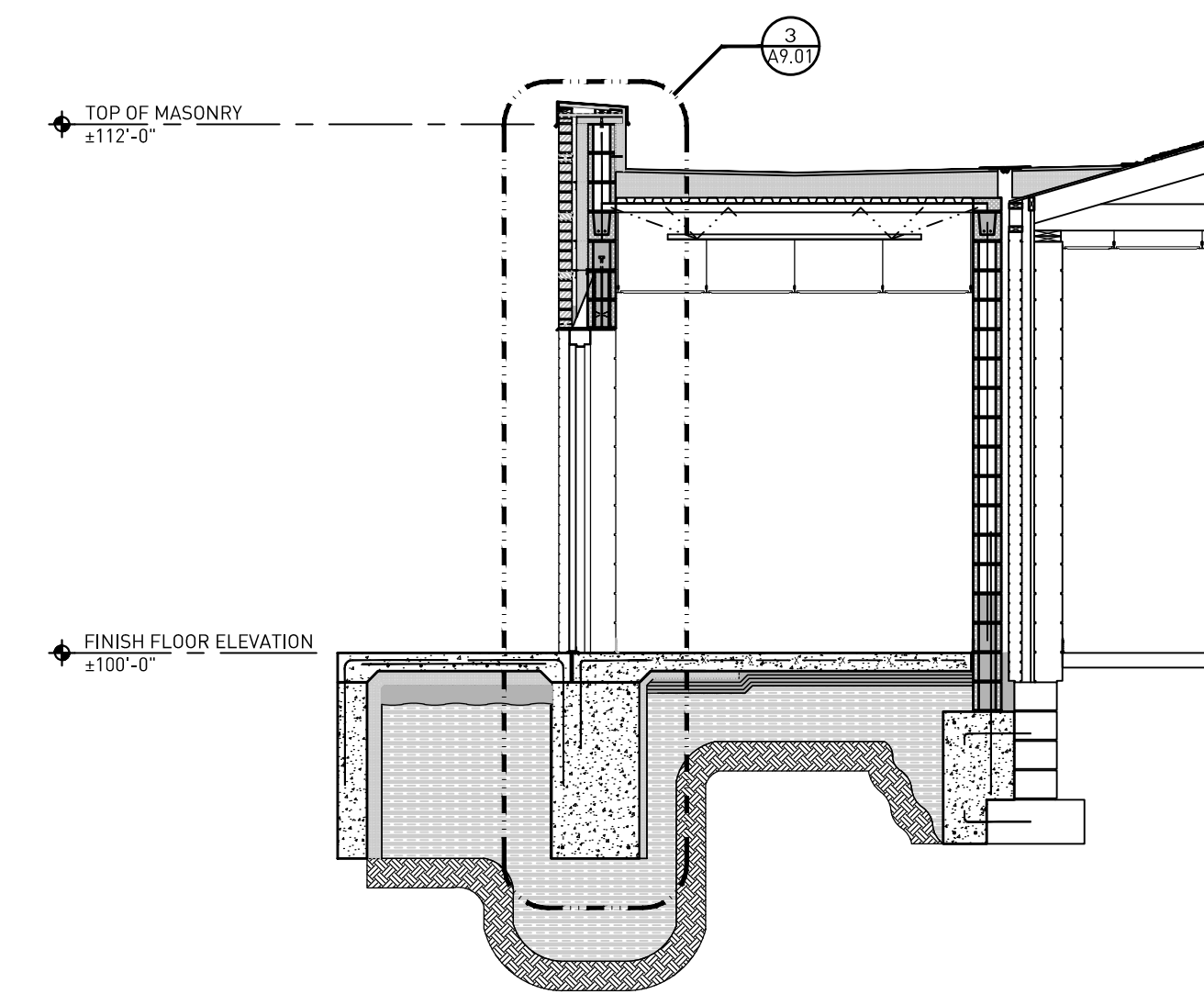
A3.50



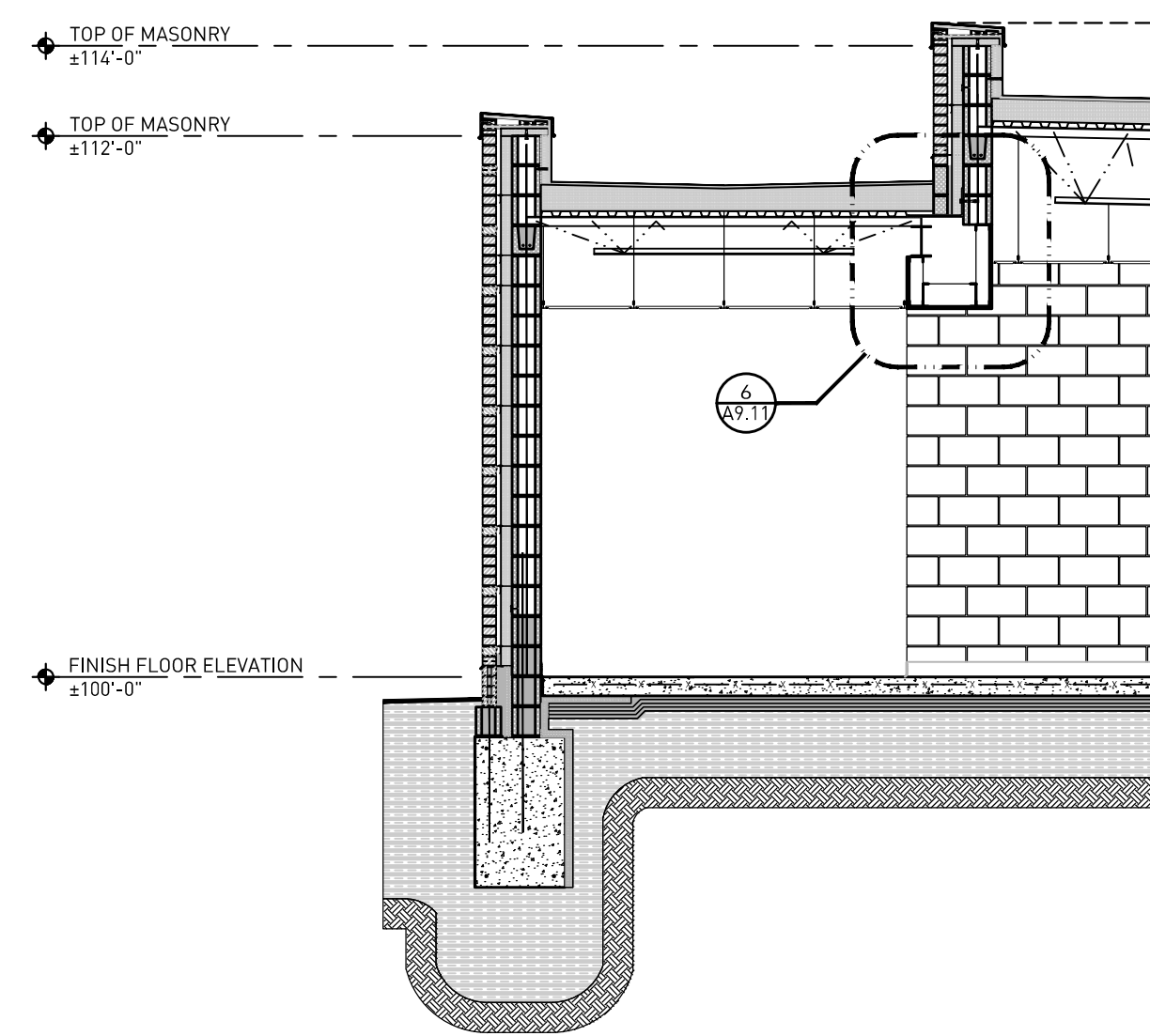
7 Building Section I - East/West (Area A)
Scale: 1/4"=1'-0"



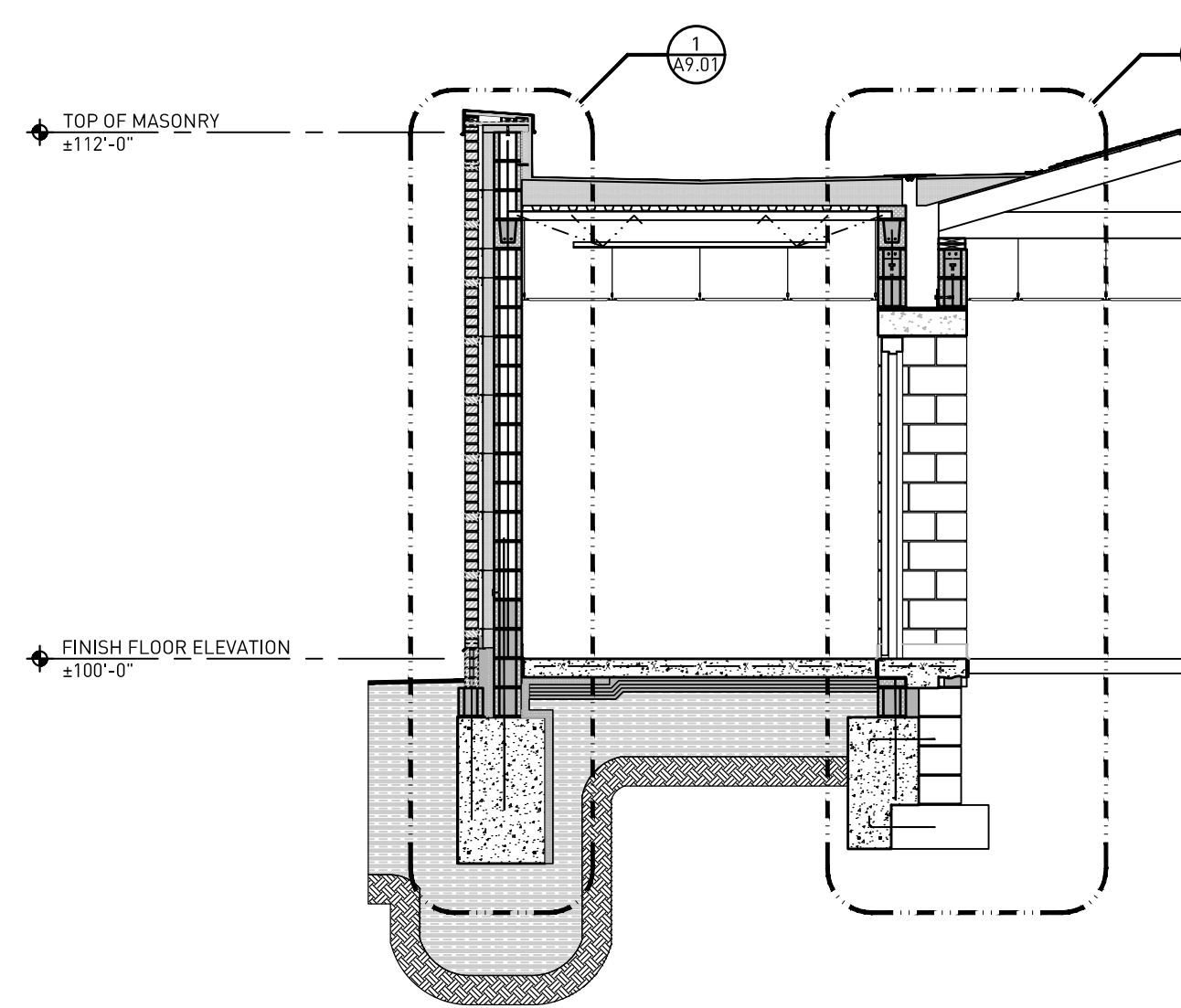
6 Building Section H - North/South (Area A)
Scale: 1/4"=1'-0"



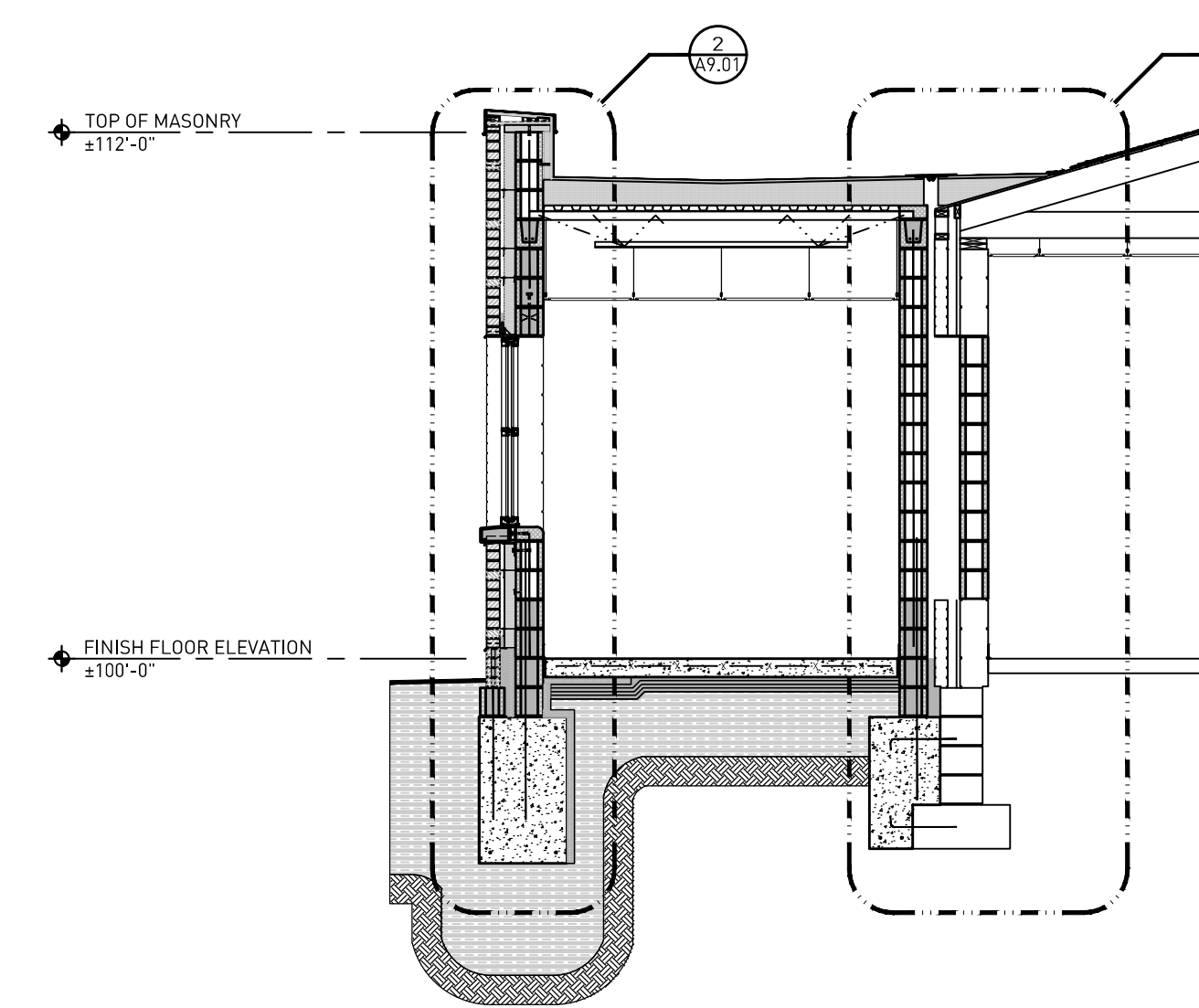
5 Building Section G - North/South (Area B)
Scale: 1/4"=1'-0"



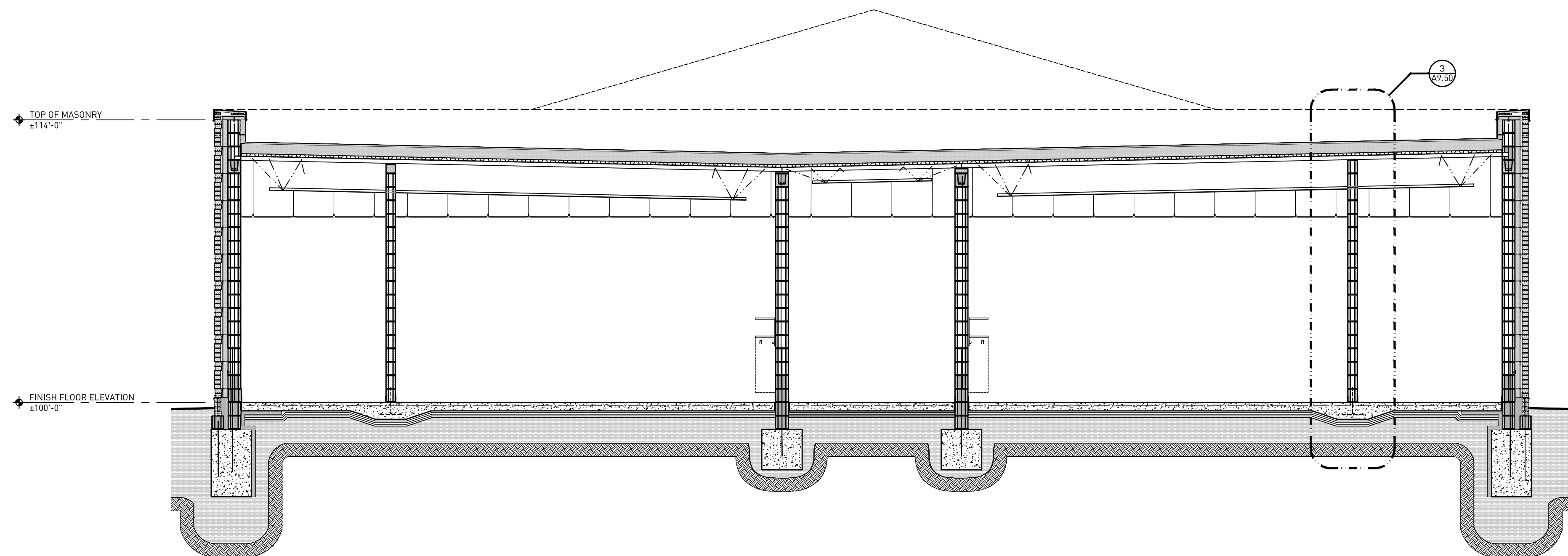
4 Building Section F - North/South (Area B)
Scale: 1/4"=1'-0"



3 Building Section E - North/South (Area B)
Scale: 1/4"=1'-0"



2 Building Section D - North/South (Area B)
Scale: 1/4"=1'-0"



1 Building Section C - North/South (Area B)
Scale: 1/4"=1'-0"

GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. BUILDING SECTIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. REFER TO FLOOR PLANS, INTERIOR AND EXTERIOR WALL SECTIONS, ETC. FOR MORE DETAILED INFORMATION, MATERIALS, DIMENSIONS, ETC.
- G3. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION REGARDING FLOOR AND ROOF FRAMING SYSTEMS.



Bidding and Permits: 31 July 2023

Building Sections



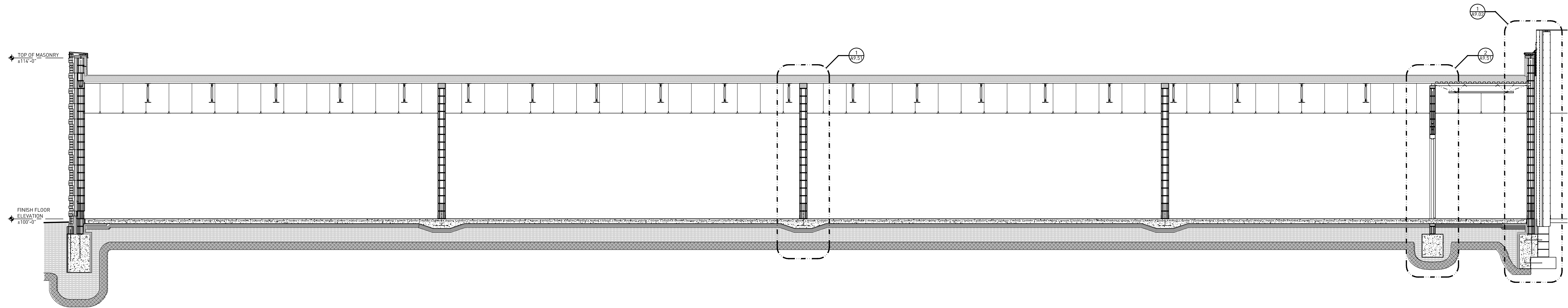
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A3.51

GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. BUILDING SECTIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. REFER TO FLOOR PLANS, INTERIOR AND EXTERIOR WALL SECTIONS, ETC. FOR MORE DETAILED INFORMATION, MATERIALS, DIMENSIONS, ETC.
- G3. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION REGARDING FLOOR AND ROOF FRAMING SYSTEMS.



1 Building Section J - East/West (Area B)
Scale: 1/4"=1'-0"



Bidding and Permits: 31 July 2023

Building Sections



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

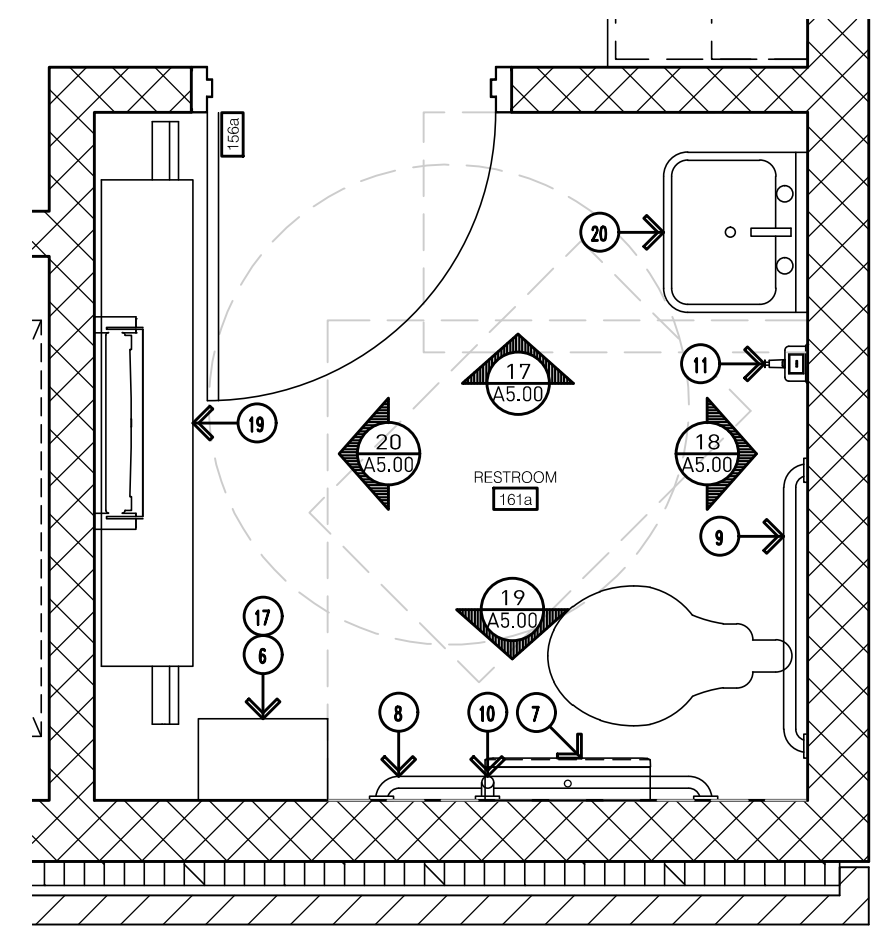
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GENERAL NOTES:

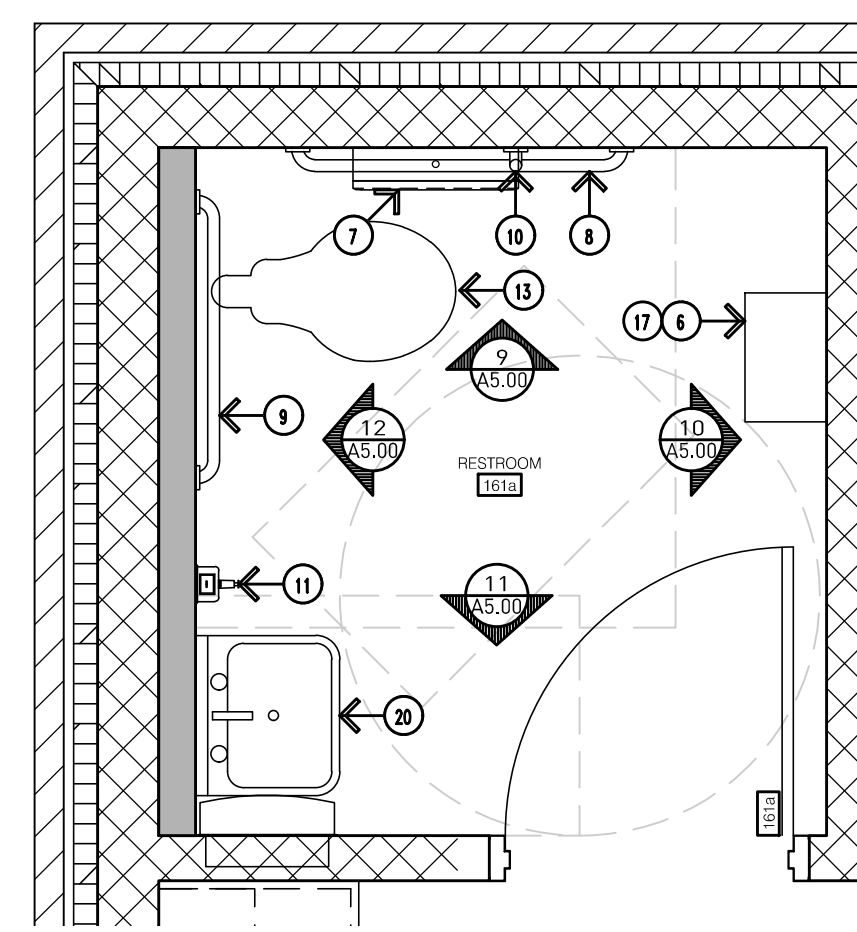
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

DRAWING NOTES:

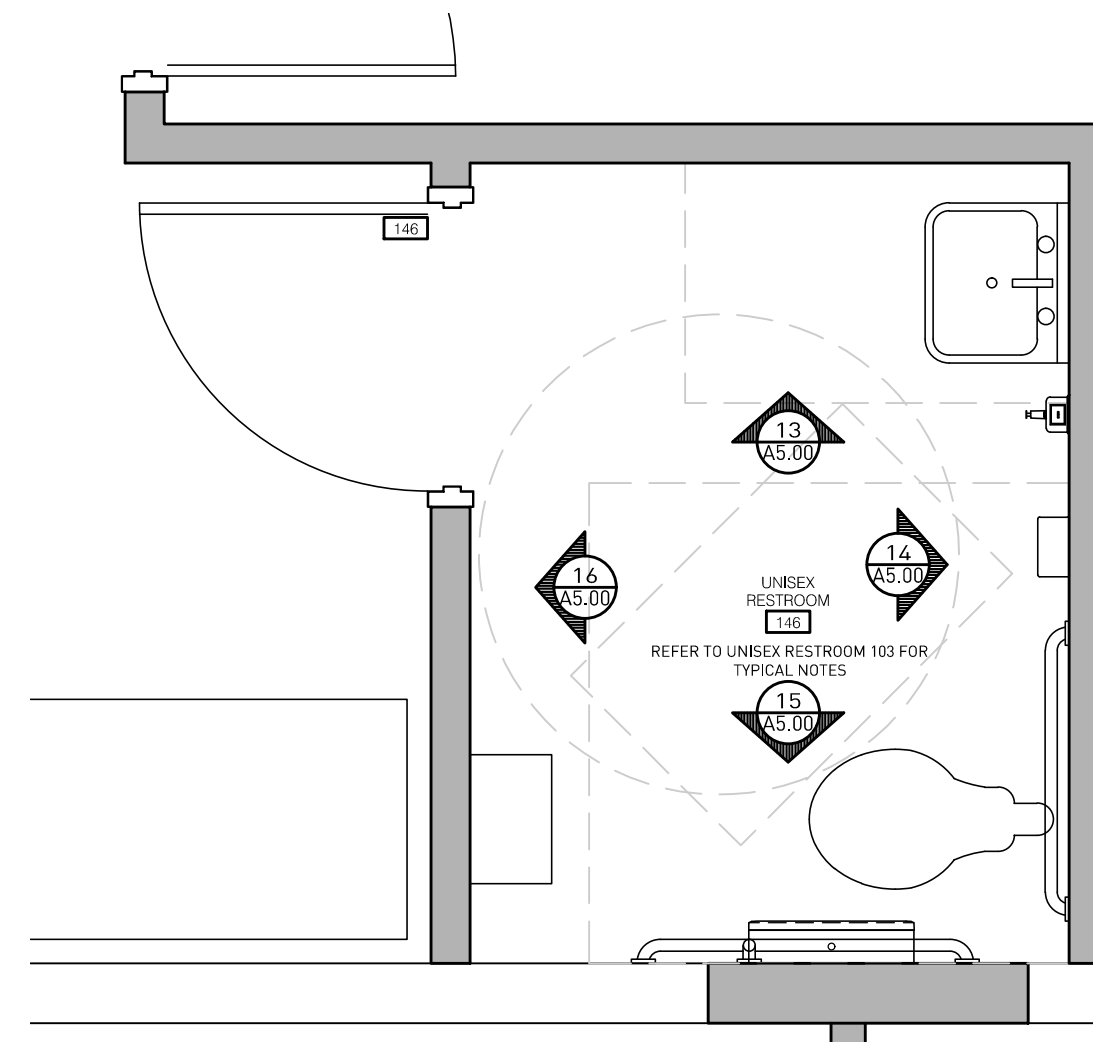
- FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET COMPARTMENT WITH DOOR, HINGES, SLIDE LATCH, DOOR PULL, COAT HOOK, ETC. REFER TO SPECIFICATIONS.
- WALL MOUNTED PLASTIC URINAL SCREEN WITH CONTINUOUS WALL BRACKET. REFER TO SPECIFICATIONS.
- FLOOR MOUNTED WATERCLOSET PER ADA REQUIREMENTS WITH AUTOMATIC FLUSH VALVE.
- WALL MOUNTED URINAL WITH RIM AT 17" A.F.F. MAXIMUM AND AUTOMATIC FLUSH VALVE. PROVIDE CONCEALED CARRIER WITH TUBE STEEL SUPPORT LEGS. REFER TO MECHANICAL SPECIFICATIONS.
- WALL MOUNTED WASH FOUNTAIN. REFER TO MECHANICAL SPECIFICATIONS.
- WALL MOUNTED PAPER TOWEL DISPENSER. REFER TO SPECIFICATIONS.
- TOILET PAPER DISPENSER MOUNTED PER ADA REQUIREMENTS. REFER TO SPECIFICATIONS.
- 42" STAINLESS STEEL GRAB BAR MOUNTED PER ADA REQUIREMENTS. REFER TO A00 & SPECIFICATIONS.
- 36" STAINLESS STEEL GRAB BAR MOUNTED PER ADA REQUIREMENTS. REFER TO A00 & SPECIFICATIONS.
- 18" STAINLESS STEEL GRAB BAR MOUNTED PER ADA REQUIREMENTS. REFER TO A00 & SPECIFICATIONS.
- WALL MOUNTED SOAP DISPENSER. REFER TO SPECIFICATIONS.
- SANITARY NAPKIN DISPOSAL MOUNTED PER ADA REQUIREMENTS. REFER TO SPECIFICATIONS.
- FLOOR MOUNTED CHILD SIZE WATERCLOSET PER CHILD ADA REQUIREMENTS WITH AUTOMATIC FLUSH VALVE.
- WALL-MOUNTED LAVATORY MOUNTED PER ADA REQUIREMENTS WITH BATTERY OPERATED FAUCET. PROVIDE CONCEALED WALL CARRIER WITH FLOOR SUPPORTS.
- ELECTRIC WATER COOLER WITH BOTTLE FILLER.
- CERAMIC / PORCELAIN FLOOR TILE. REFER TO FINISH SCHEDULE AND SPECIFICATIONS.
- WASTE RECEPTACLE. REFER TO SPECIFICATIONS.
- WALL MOUNTED DIAPER CHANGING STATION. REFER TO SPECIFICATIONS.
- WALL MOUNTED ADJUSTABLE HEIGHT CHANGING STATION. REFER TO SPECIFICATIONS.
- WALL-MOUNTED LAVATORY MOUNTED PER CHILD ADA REQUIREMENTS WITH BATTERY OPERATED FAUCET. PROVIDE CONCEALED WALL CARRIER WITH FLOOR SUPPORTS.



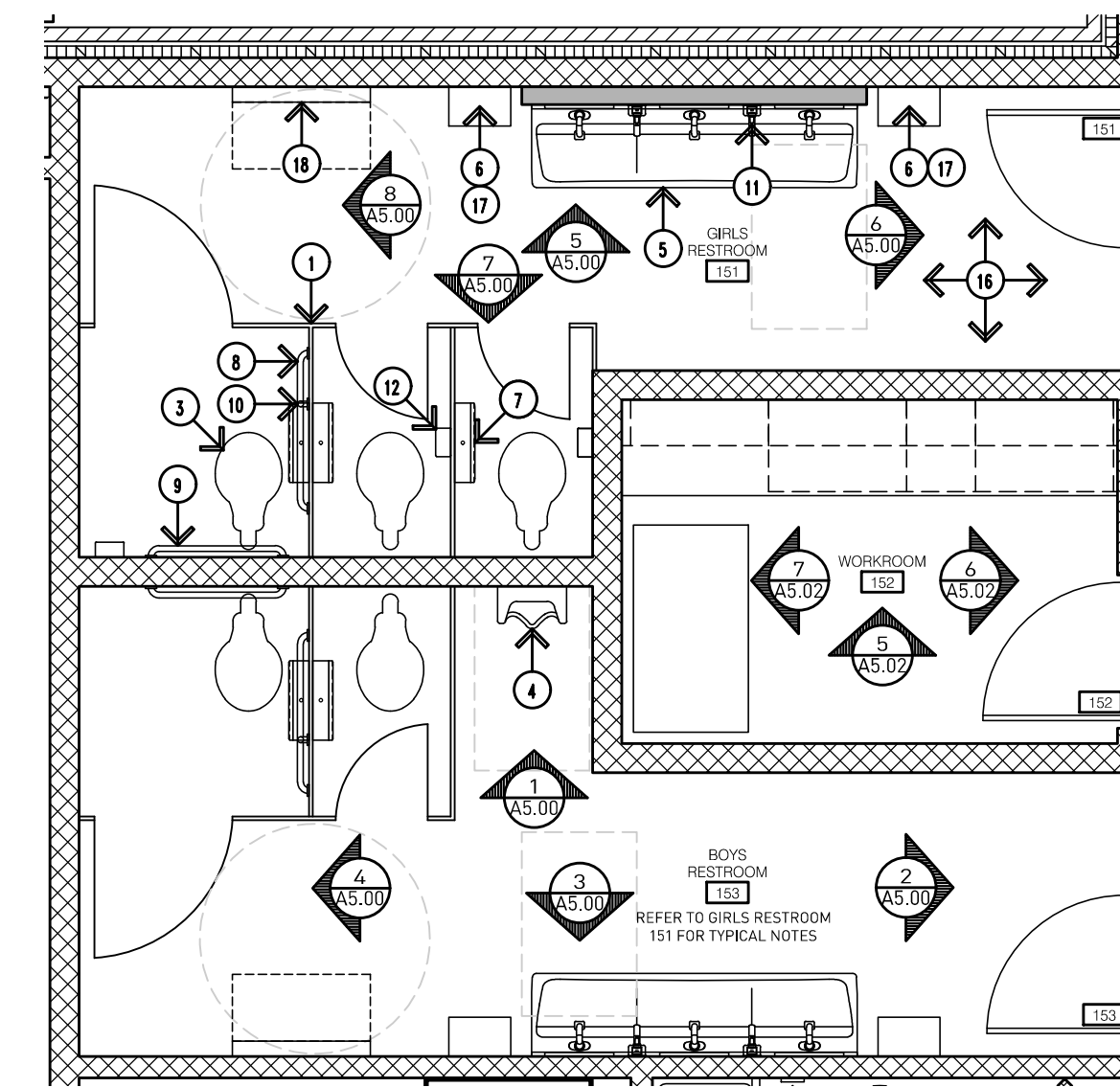
7 GRSP Classroom Restroom - Changing Station
Scale: 1/2"=1'-0"



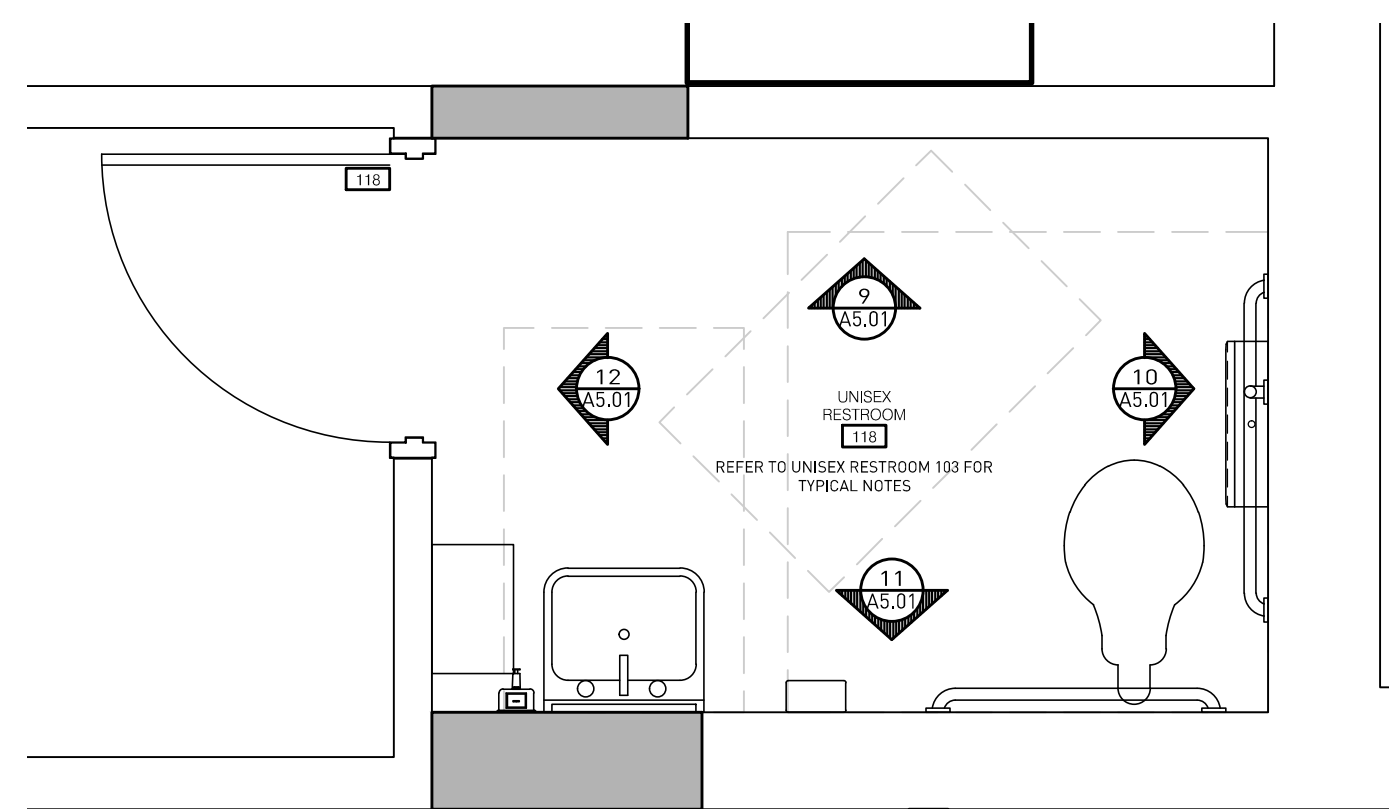
6 GRSP Typical Classroom Restroom
Scale: 1/2"=1'-0"



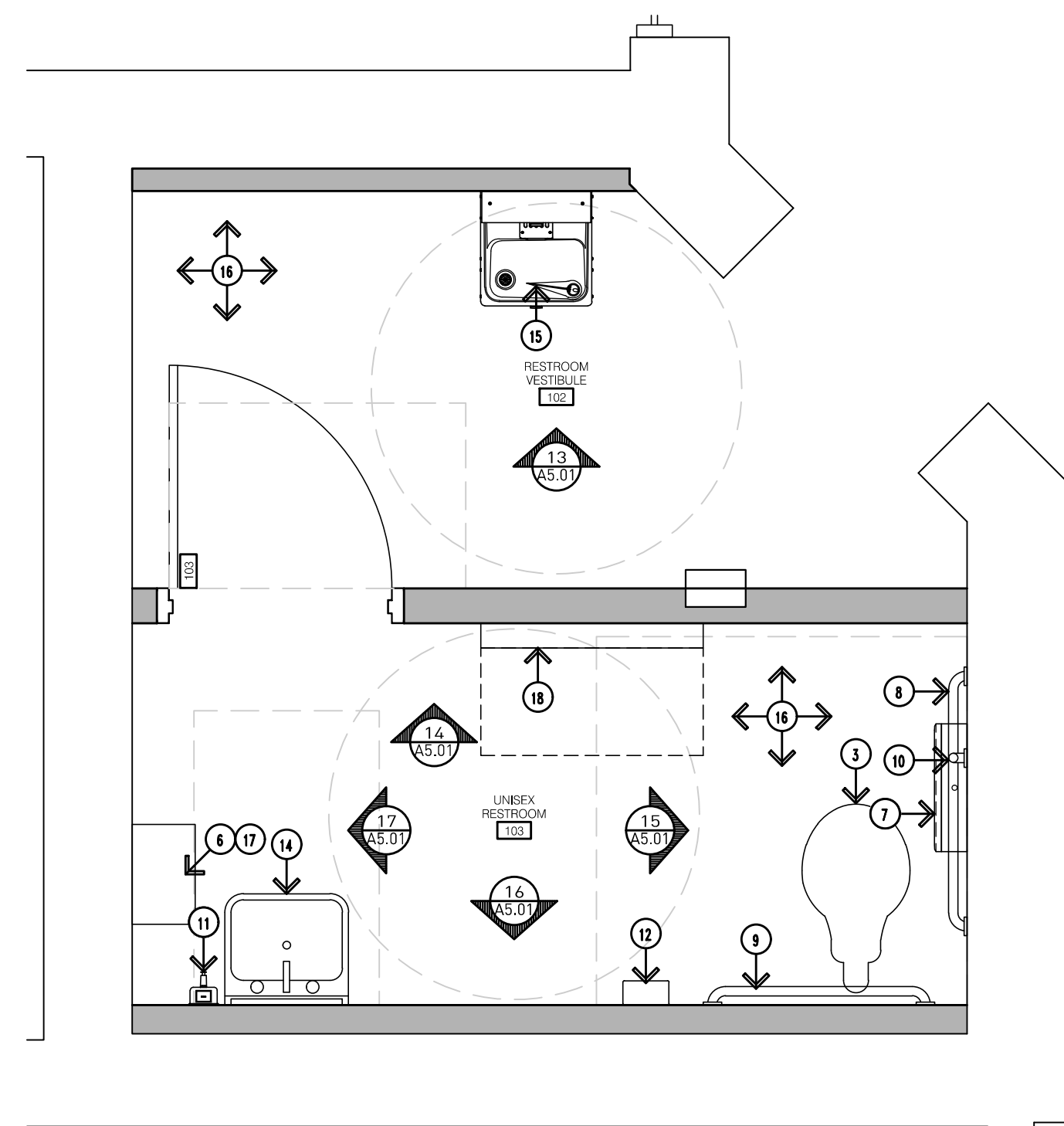
5 GRSP Unisex Restroom 146
Scale: 1/2"=1'-0"



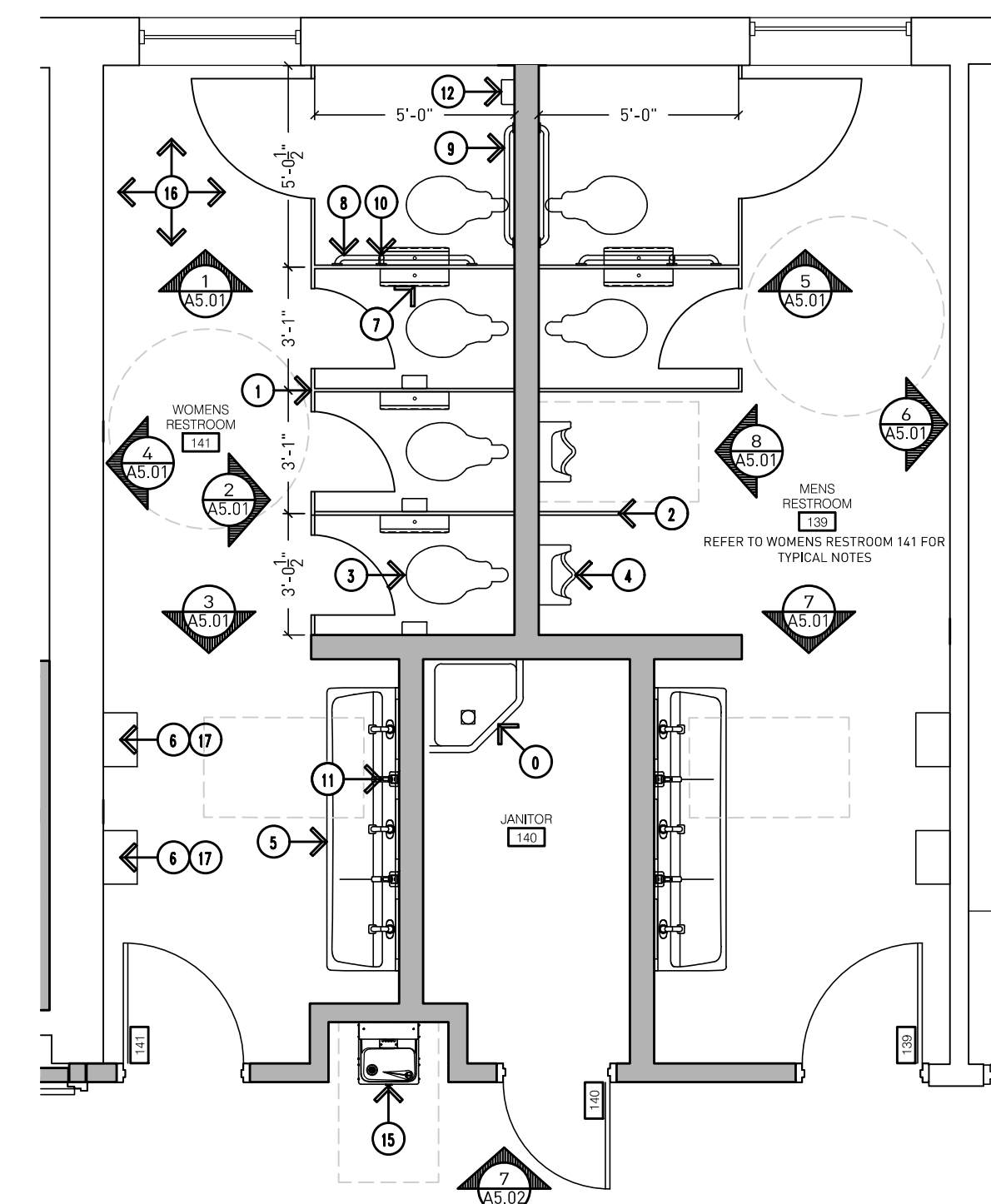
4 GRSP Restrooms
Scale: 1/4"=1'-0"



3 Administration Unisex Restroom 118
Scale: 1/2"=1'-0"



2 Administration Unisex Restroom 103
Scale: 1/2"=1'-0"



1 Administration Restrooms
Scale: 1/4"=1'-0"



Bidding and Permits: 31 July 2023

Enlarged Floor Plans (Restrooms)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A4.00

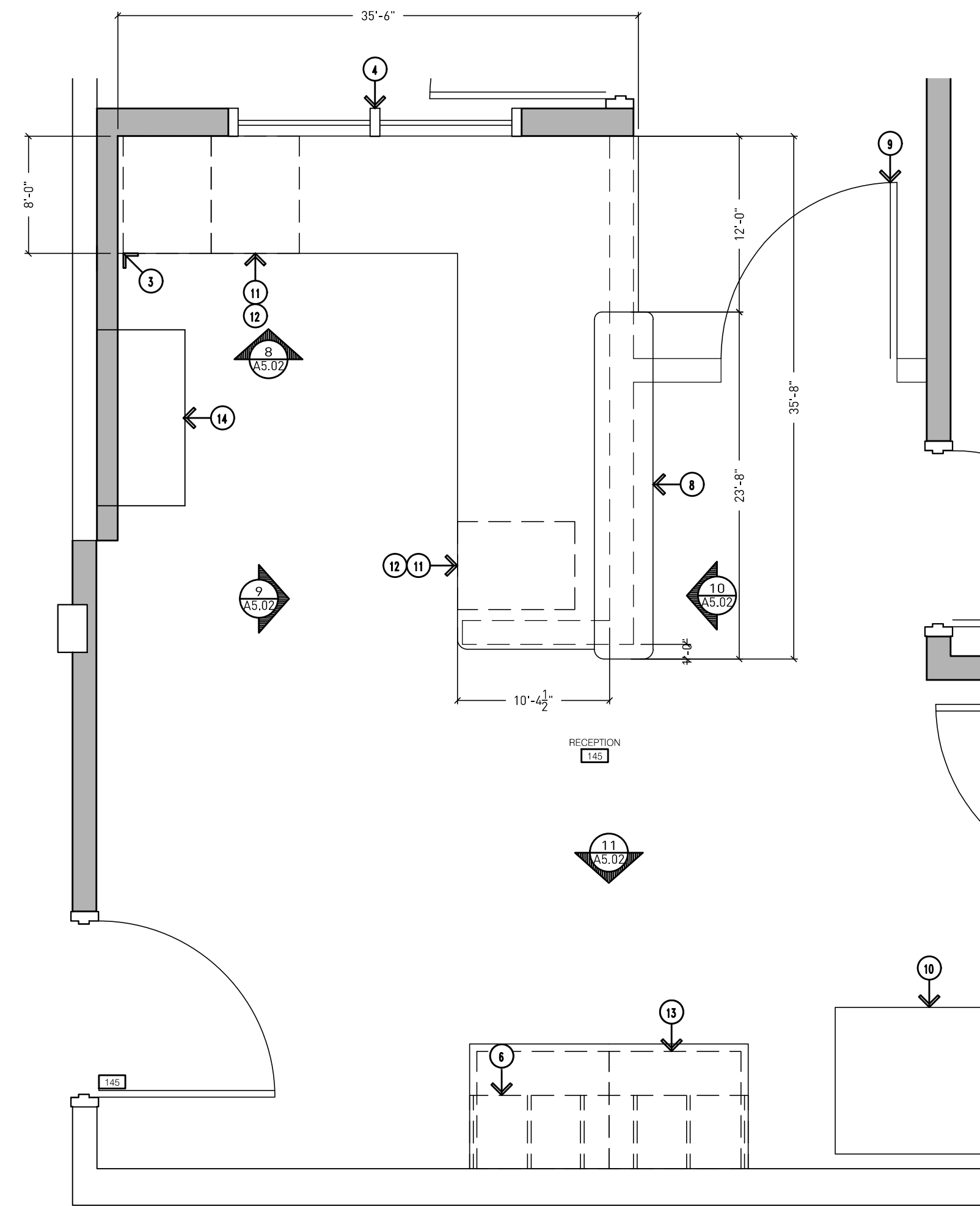


GENERAL NOTES:

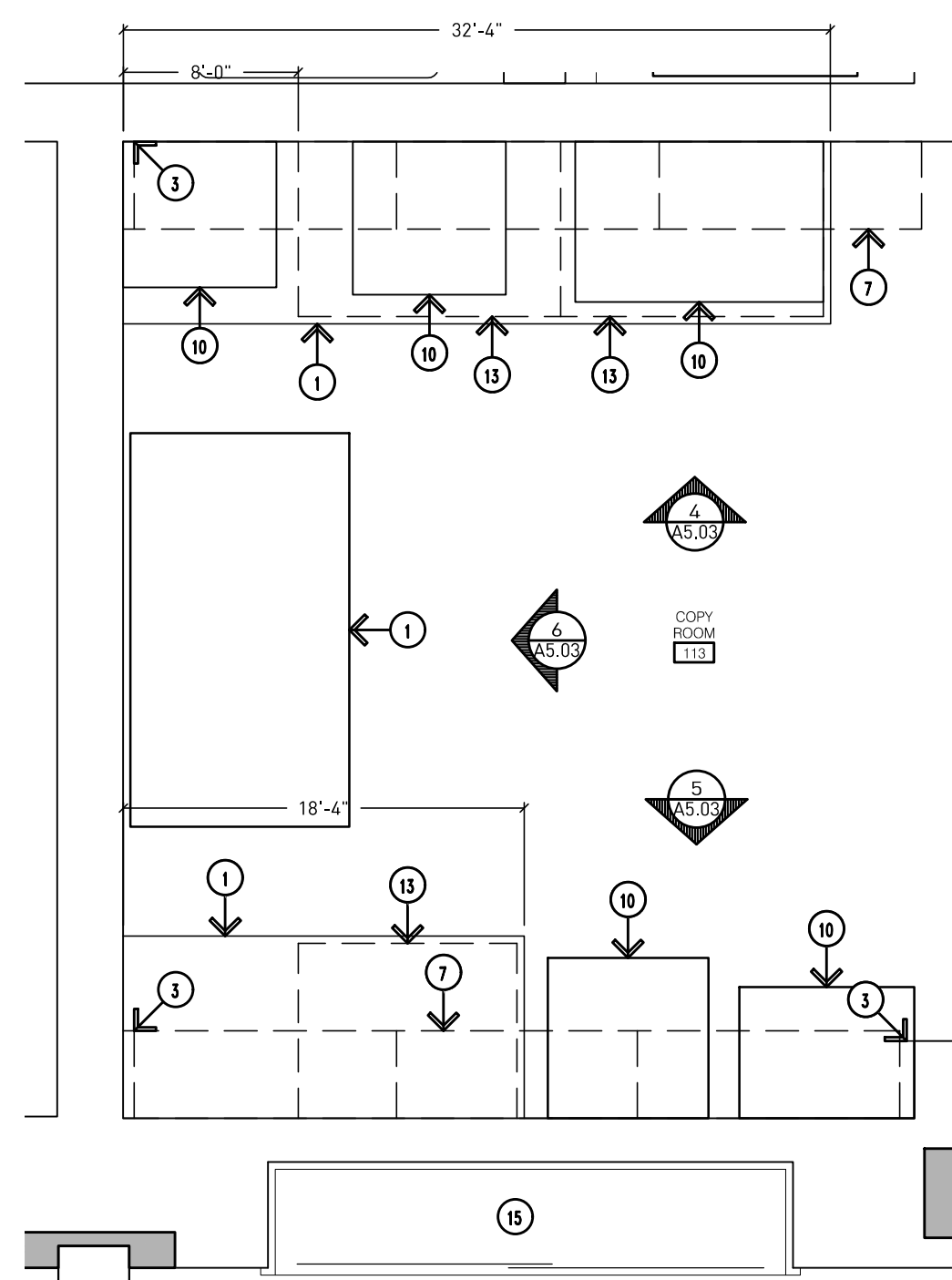
G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

DRAWING NOTES:

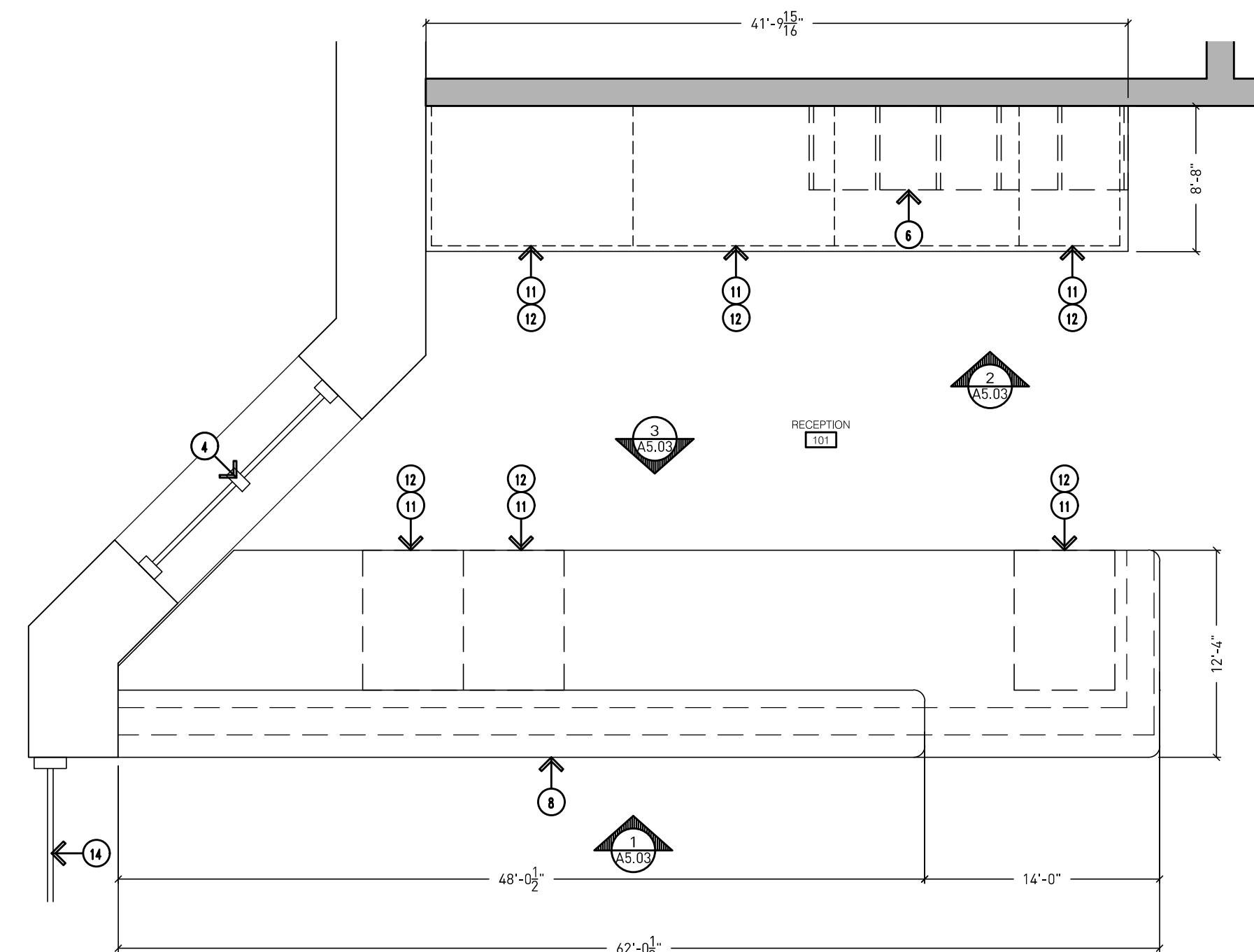
1. COUNTERTOP W/SIDE AND BACKSPLASH TO SUIT CONDITIONS. REFER TO FINISH / MATERIALS SCHEDULE.
2. BASE CABINET. REFER TO CABINET SCHEDULE.
3. FILLER PANEL AS REQUIRED.
4. LAMINATED SAFETY GLAZING IN ALUMINUM STOREFRONT. REFER TO DOOR SCHEDULE.
5. RECEPTION DESK. REFER TO CABINET SCHEDULE.
6. MAIL SLOTS. REFER TO CABINET SCHEDULE.
7. UPPER WALL CABINETS. REFER TO CABINET SCHEDULE.
8. PLASTIC LAMINATE RECEPTION DESK COUNTERTOP. REFER TO MATERIALS SCHEDULE.
9. PLASTIC LAMINATE ENTRY GATE WITH SELF-CLOSING CONTINUOUS HINGE AND SELF-LATCHING HARDWARE. REFER TO MATERIALS SCHEDULE.
10. EXISTING OFFICE EQUIPMENT.
11. PLASTIC LAMINATE FILE DRAWER. REFER TO MATERIALS SCHEDULE.
12. FINISHED END PANEL AS REQUIRED.
13. BASE CABINET. REFER TO CABINET SCHEDULE.
14. EXISTING DISPLAY CASE. CLEAN, PREP, AND PAINT FRAME (PT-11).
15. FIRE ALARM CONTROL PANEL.



3 Reception 145
Scale: 1/2"=1'-0"



2 Copy Room 113
Scale: 1/2"=1'-0"



1 Reception 101
Scale: 1/2"=1'-0"



Bidding and Permits: 31 July 2023

Enlarged Floor Plans

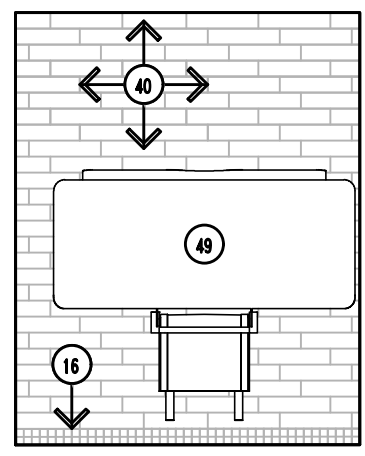


Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

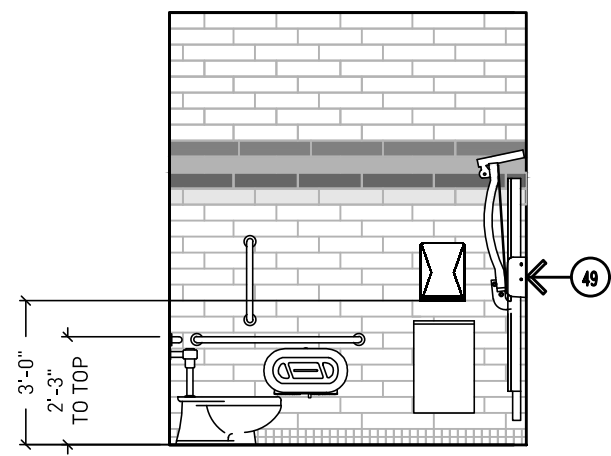
Project No. 3221

A4.01

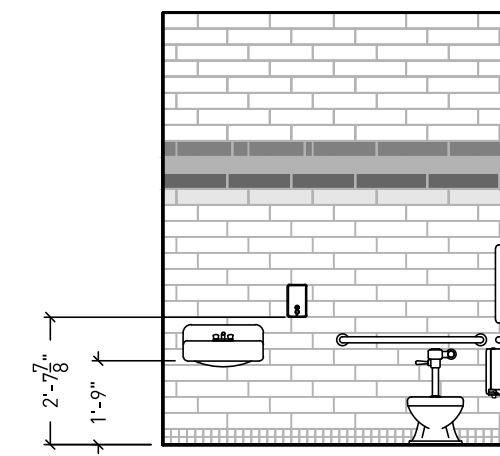




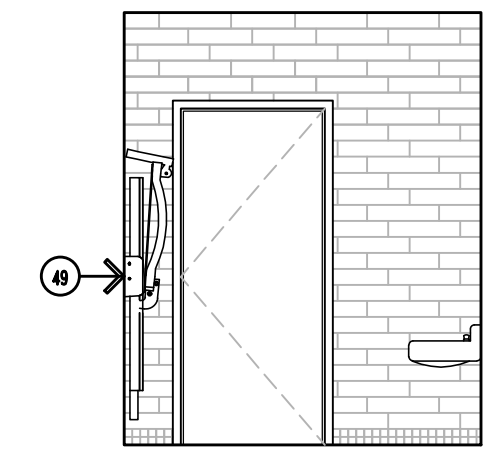
20 GSRP Restroom 156a West Elevation
Scale: 1/4"=1'-0"



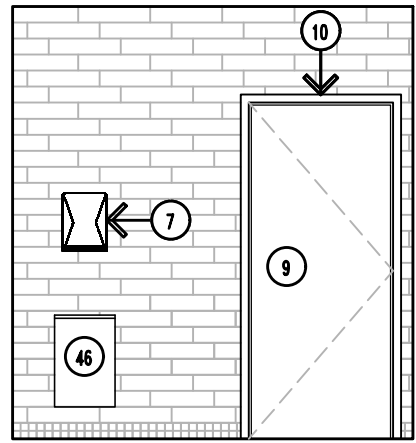
19 GSRP Restroom 156a South Elevation
Scale: 1/4"=1'-0"
REFER TO 9/A5.00 FOR SIMILAR NOTES



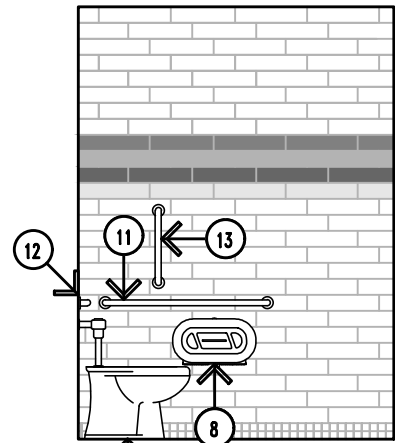
18 GSRP Restroom 156a East Elevation
Scale: 1/4"=1'-0"
REFER TO 12/A5.00 FOR SIMILAR NOTES



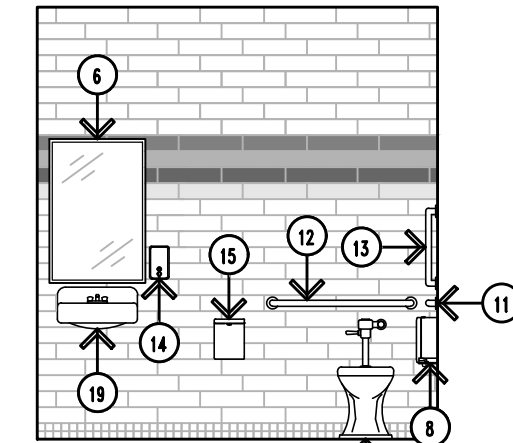
17 GSRP Restroom 156a North Elevation
Scale: 1/4"=1'-0"
REFER TO 11/A5.00 FOR SIMILAR NOTES



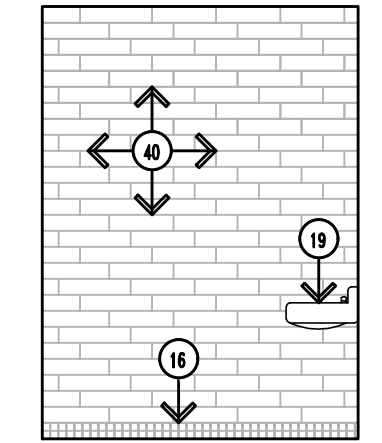
16 Unisex Restroom 146 West Elevation
Scale: 1/4"=1'-0"



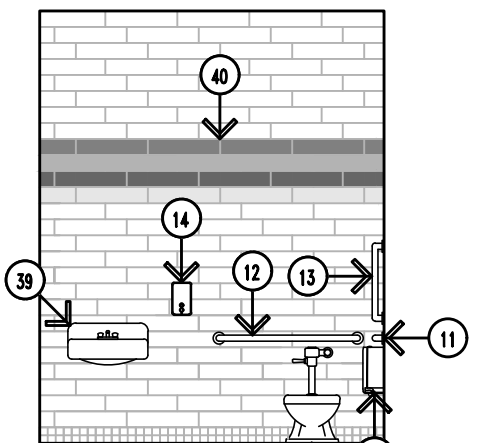
15 Unisex Restroom 146 South Elevation
Scale: 1/4"=1'-0"



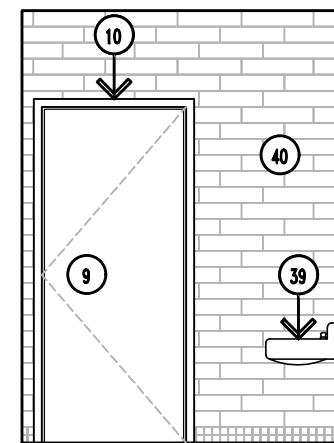
14 Unisex Restroom 146 East Elevation
Scale: 1/4"=1'-0"



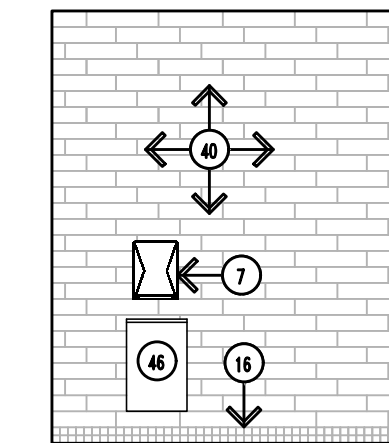
13 Unisex Restroom 146 North Elevation
Scale: 1/4"=1'-0"



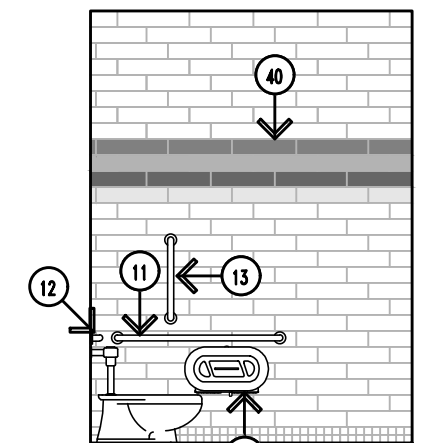
12 GSRP Restroom 161a West Elevation
Scale: 1/4"=1'-0"
NOTE: ALL GSRP ROOMS SIMILAR



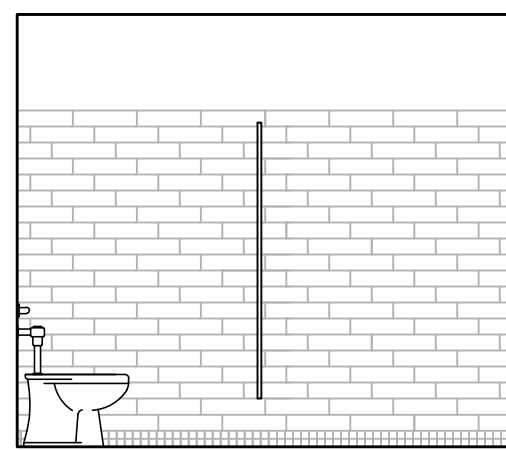
11 GSRP Restroom 161a South Elevation
Scale: 1/4"=1'-0"
NOTE: ALL GSRP ROOMS SIMILAR



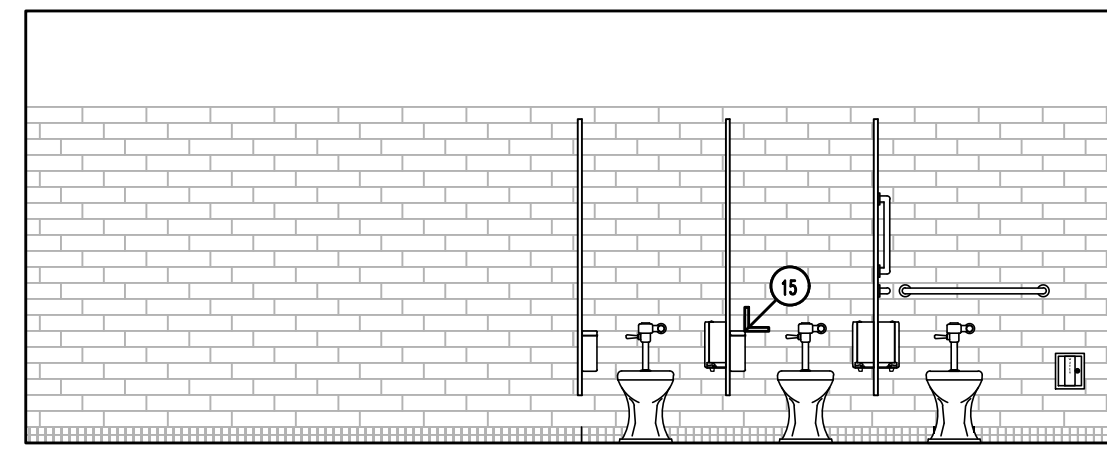
10 GSRP Restroom 161a East Elevation
Scale: 1/4"=1'-0"
NOTE: ALL GSRP ROOMS SIMILAR



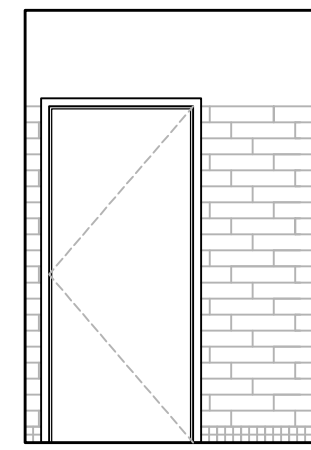
9 GSRP Restroom 161a North Elevation
Scale: 1/4"=1'-0"
NOTE: ALL GSRP ROOMS SIMILAR



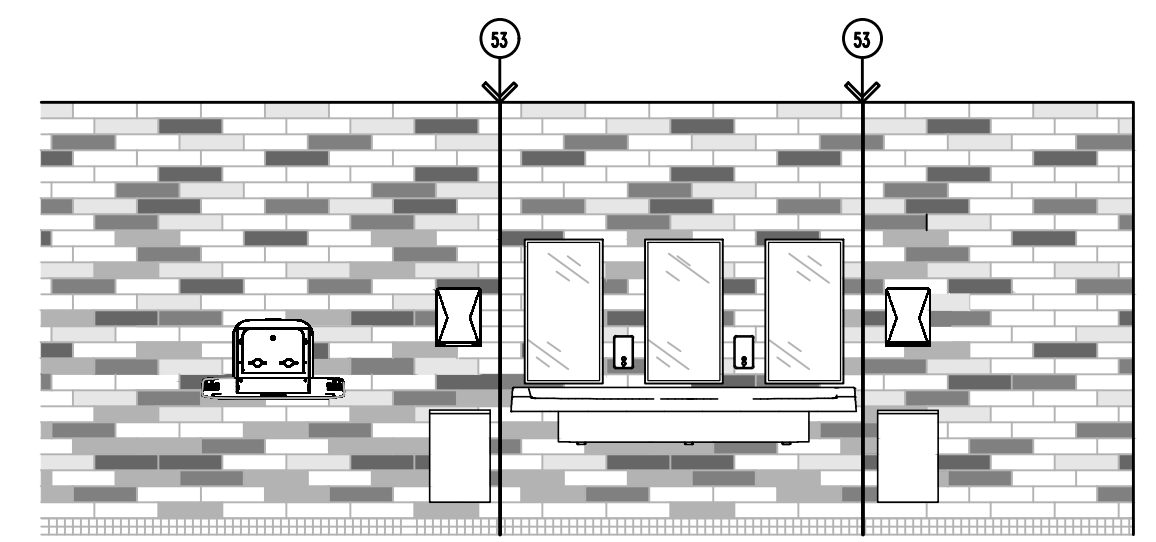
8 Girls Restroom 151 West Elevation
Scale: 1/4"=1'-0"
REFER TO 3/A5.00 FOR SIMILAR NOTES



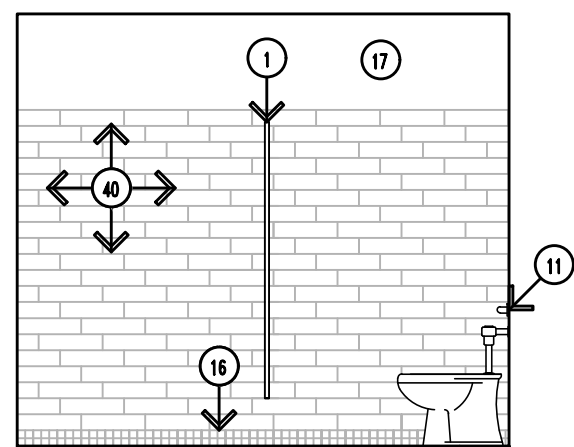
7 Girls Restroom 151 South Elevation
Scale: 1/4"=1'-0"
REFER TO 1/A5.00 FOR SIMILAR NOTES



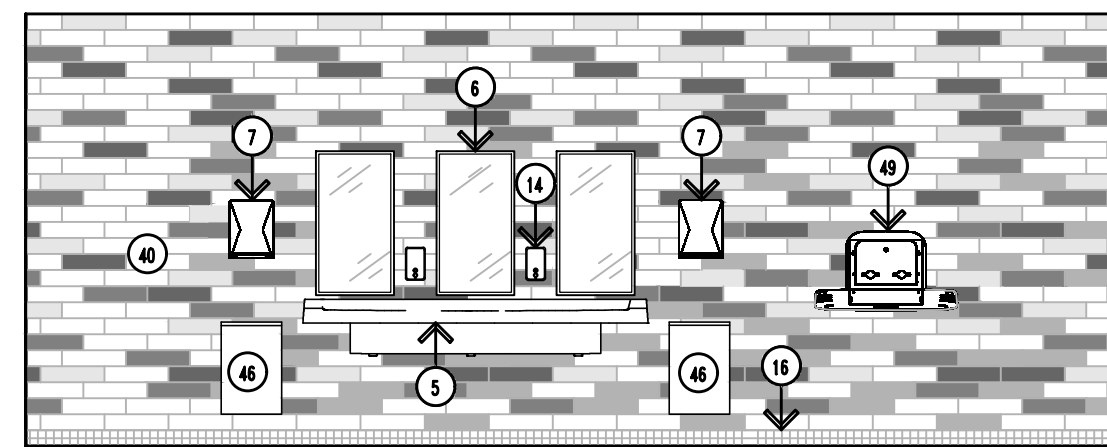
6 Girls Restroom 151 East Elevation
Scale: 1/4"=1'-0"
REFER TO 2/A5.00 FOR SIMILAR NOTES



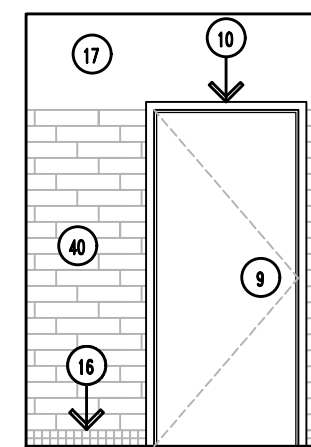
5 Girls Restroom 151 North Elevation
Scale: 1/4"=1'-0"
REFER TO 4/A5.00 FOR SIMILAR NOTES



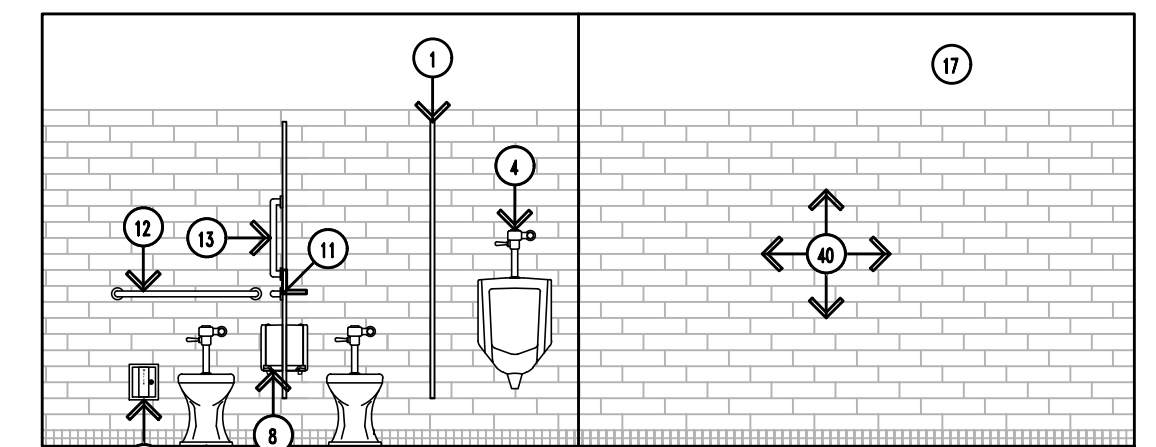
4 Boys Restroom 153 West Elevation
Scale: 1/4"=1'-0"



3 Boys Restroom 153 South Elevation
Scale: 1/4"=1'-0"



2 Boys Restroom 153 East Elevation
Scale: 1/4"=1'-0"



1 Boys Restroom 153 North Elevation
Scale: 1/4"=1'-0"

GENERAL NOTES:

- 01. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- 02. ALL OUTSIDE CORNERS OF TILED WALLS TO HAVE TRIM PIECE SIMILAR TO SCHLUTER "RONDEC" SIZED APPROPRIATE FOR TILE THICKNESS (SATIN ANODIZED ALUMINUM FINISH). EXPOSED TOP EDGE TO BE FINISHED WITH COORDINATING TOP CAP.

DRAWING NOTES:

- 01. FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET COMPARTMENT WITH DOOR, HINGES, SLIDE LATCH, DOOR PULL, COAT HOOK, ETC. REFER TO SPECIFICATIONS.
- 02. WALL MOUNTED, PLASTIC URINAL SCREEN WITH CONTINUOUS WALL BRACKET. REFER TO SPECIFICATIONS.
- 03. FLOOR MOUNTED WATERCLOSET PER ADA REQUIREMENTS WITH AUTOMATIC FLUSH VALVE.
- 04. WALL MOUNTED URINAL WITH RIM AT 17" A.F.F. MAXIMUM AND AUTOMATIC FLUSH VALVE. PROVIDE CONCEALED CARRIER WITH TUBE STEEL SUPPORT LEGS.
- 05. WALL MOUNTED WASH FOUNTAIN. REFER TO MECHANICAL SPECIFICATIONS.
- 06. WALL MOUNTED MIRROR. REFER TO SPECIFICATIONS.
- 07. WALL MOUNTED PAPER TOWEL DISPENSER. REFER TO SPECIFICATIONS.
- 08. TOILET PAPER DISPENSER MOUNTED PER ADA REQUIREMENTS. REFER TO SPECIFICATIONS.
- 09. DOOR - REFER TO DOOR SCHEDULE.
- 10. DOOR FRAME - REFER TO DOOR SCHEDULE.
- 11. 42" STAINLESS STEEL GRAB BAR MOUNTED PER ADA REQUIREMENTS. REFER TO A00 & SPECIFICATIONS.
- 12. 36" STAINLESS STEEL GRAB BAR MOUNTED PER ADA REQUIREMENTS. REFER TO A00 & SPECIFICATIONS.
- 13. 18" STAINLESS STEEL GRAB BAR MOUNTED PER ADA REQUIREMENTS. REFER TO A00 & SPECIFICATIONS.
- 14. WALL MOUNTED SOAP DISPENSER. REFER TO SPECIFICATIONS.
- 15. SANITARY NAPKIN DISPOSAL MOUNTED PER ADA REQUIREMENTS. REFER TO SPECIFICATIONS.
- 16. CERAMIC / PORCELAIN TILE WALL BASE - REFER TO FINISH SCHEDULE AND SPECIFICATIONS.
- 17. PAINTED CMU WALL - REFER TO FINISH SCHEDULE.
- 18. FLOOR MOUNTED CHILD SIZE WATERCLOSET PER CHILD ADA REQUIREMENTS WITH AUTOMATIC FLUSH VALVE.
- 19. WALL-MOUNTED LAVATORY MOUNTED PER ADA REQUIREMENTS WITH BATTERY OPERATED FAUCET. PROVIDE CONCEALED WALL CARRIER WITH FLOOR SUPPORTS.
- 20. CUSTOM PLASTIC LAMINATE COAT CUBBIES WITH HOOKS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 21. WHITE BOARD/ TACKBOARD (TB-3) COMBINATION. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 22. APPROXIMATE LOCATION OF INTERACTIVE FLAT PANEL. COORDINATE BETWEEN TECHNOLOGY AND ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. FURNISHED AND INSTALLED BY TECHNOLOGY VENDOR.
- 23. COUNTERTOP W/SIDE AND BACKSPLASH TO SUIT CONDITIONS. REFER TO FINISH / MATERIALS SCHEDULE.
- 24. BASE CABINET. REFER TO CABINET SCHEDULE.
- 25. FILLER PANEL AS REQUIRED.
- 26. LAMINATED SAFETY GLAZING IN ALUMINUM STOREFRONT.
- 27. EXISTING WINDOW.
- 28. RECEPTION DESK. REFER TO CABINET SCHEDULE.
- 29. MAIL SLOTS. REFER TO CABINET SCHEDULE.
- 30. UPPER WALL CABINETS. REFER TO CABINET SCHEDULE.
- 31. PLASTIC LAMINATE RECEPTION DESK COUNTERTOP. REFER TO MATERIALS SCHEDULE.
- 32. TACKABLE SURFACE MATERIAL (TB-3). REFER TO MATERIALS SCHEDULE.
- 33. PLASTIC LAMINATE FILE DRAWER. REFER TO MATERIALS SCHEDULE.
- 34. PLASTIC LAMINATE REVEAL. REFER TO MATERIALS SCHEDULE.
- 35. PLASTIC LAMINATE RECEPTION DESK. REFER TO MATERIALS SCHEDULE.
- 36. PLASTIC LAMINATE BASE. REFER TO MATERIALS SCHEDULE.
- 37. PLASTIC LAMINATE ENTRY GATE WITH SELF-CLOSING CONTINUOUS HINGE AND SELF-LATCHING HARDWARE. REFER TO MATERIALS SCHEDULE.
- 38. EXISTING OFFICE EQUIPMENT.
- 39. WALL-MOUNTED LAVATORY MOUNTED PER CHILD ADA REQUIREMENTS WITH BATTERY OPERATED FAUCET. PROVIDE CONCEALED WALL CARRIER WITH FLOOR SUPPORTS.
- 40. CERAMIC / PORCELAIN WALL TILE. REFER TO FINISH / MATERIALS SCHEDULE.
- 41. PAINTED GYPSUM WALL. REFER TO FINISH / MATERIALS SCHEDULE.
- 42. 4" COVED RUBBER BASE. REFER TO MATERIALS SCHEDULE.
- 43. ELECTRIC WATER COOLER WITH BOTTLE FILLER.
- 44. WALL MOUNTED ADJUSTABLE HEIGHT CHANGING STATION. REFER TO SPECIFICATIONS.
- 45. STOREFRONT FRAMING SYSTEM WITH GLASS. REFER TO DOOR SCHEDULE.
- 46. WASTE RECEPTACLE. REFER TO SPECIFICATIONS.
- 47. WINDOW SHADES. REFER TO MATERIALS SCHEDULE.
- 48. TOP OF MIRROR TO ALIGN WITH TOP OF TILE; BOTTOM OF MIRROR NOT TO EXCEED 40" A.F.F. PER BARRIER FREE REQUIREMENTS.
- 49. WALL MOUNTED DIAPER CHANGING STATION. REFER TO SPECIFICATIONS.
- 50. FINISHED END PANEL AS REQUIRED.
- 51. TACKBOARD (TB-3) WITH ALUMINUM FRAME. REFER TO SPECIFICATIONS.
- 52. 3" GROMMET. REFER TO SPECIFICATIONS.
- 53. LINE OF FURRED OUT WALL BEHIND WASH FOUNTAIN.
- 54. HOSE BIBB ENCLOSURE. REFER TO SPECIFICATIONS.



Bidding and Permits: 31 July 2023



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

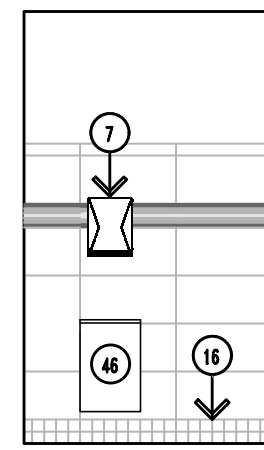
A5.00

GENERAL NOTES:

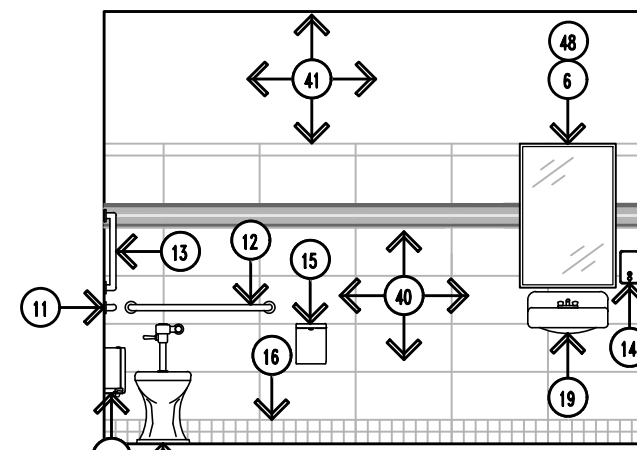
- 01. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- 02. ALL OUTSIDE CORNERS OF TILED WALLS TO HAVE TRIM PIECE SIMILAR TO SCHLUTER "RONDEC" SIZED APPROPRIATE FOR TILE THICKNESS SATIN ANODIZED ALUMINUM FINISH. EXPOSED TOP EDGE TO BE FINISHED WITH COORDINATING TOP CAP.

DRAWING NOTES:

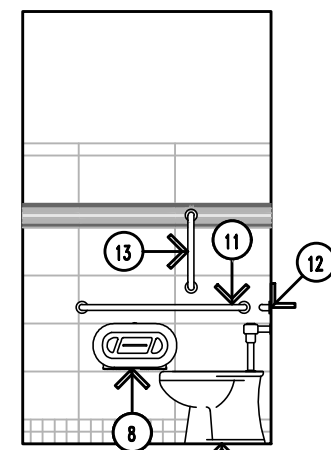
- 1. FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET COMPARTMENT WITH DOOR, HINGES, SLIDE LATCH, DOOR PULL, COAT HOOK, ETC. REFER TO SPECIFICATIONS.
- 2. WALL MOUNTED, PLASTIC URINAL SCREEN WITH CONTINUOUS WALL BRACKET. REFER TO SPECIFICATIONS.
- 3. FLOOR MOUNTED WATERCLOSET PER ADA REQUIREMENTS WITH AUTOMATIC FLUSH VALVE.
- 4. WALL MOUNTED URINAL WITH RIM AT 17" A.F.F. MAXIMUM AND AUTOMATIC FLUSH VALVE. PROVIDE CONCEALED CARRIER WITH TUBE STEEL SUPPORT LEGS.
- 5. WALL MOUNTED WASH FOUNTAIN. REFER TO MECHANICAL SPECIFICATIONS.
- 6. WALL MOUNTED MIRROR. REFER TO SPECIFICATIONS.
- 7. WALL MOUNTED PAPER TOWEL DISPENSER. REFER TO SPECIFICATIONS.
- 8. TOILET PAPER DISPENSER MOUNTED PER ADA REQUIREMENTS. REFER TO SPECIFICATIONS.
- 9. DOOR - REFER TO DOOR SCHEDULE.
- 10. DOOR FRAME - REFER TO DOOR SCHEDULE.
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- 15. SANITARY NAPKIN DISPOSAL MOUNTED PER ADA REQUIREMENTS. REFER TO SPECIFICATIONS.
- 16. CERAMIC / PORCELAIN TILE WALL BASE - REFER TO FINISH SCHEDULE AND SPECIFICATIONS.
- 17. PAINTED CMU WALL - REFER TO FINISH SCHEDULE.
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- 20. CUSTOM PLASTIC LAMINATE COAT CUBBIES WITH HOOKS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
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- 23. COUNTERTOP W/SIDE AND BACKSPLASH TO SUIT CONDITIONS. REFER TO FINISH / MATERIALS SCHEDULE.
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- 26. LAMINATED SAFETY GLAZING IN ALUMINUM STOREFRONT.
- 27. EXISTING WINDOW.
- 28. RECEPTION DESK. REFER TO CABINET SCHEDULE.
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- 30. UPPER WALL CABINETS. REFER TO CABINET SCHEDULE.
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- 50. FINISHED END PANEL AS REQUIRED.
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- 52. 3" GROMMET. REFER TO SPECIFICATIONS.
- 53. LINE OF FURRED OUT WALL BEHIND WASH FOUNTAIN.
- 54. HOSE BIBB ENCLOSURE. REFER TO SPECIFICATIONS.



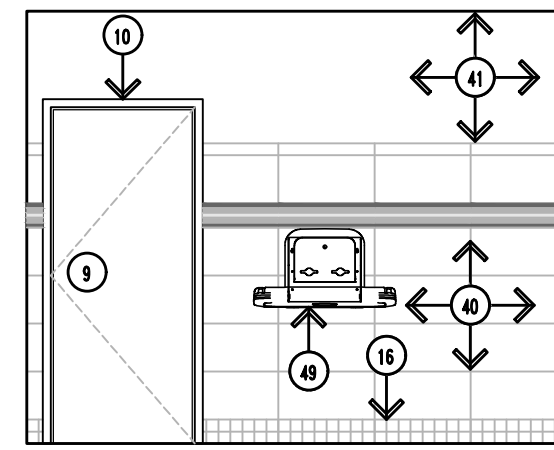
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A5.01 Unisex Restroom 103 West Elevation
Scale: 1/4"=1'-0"



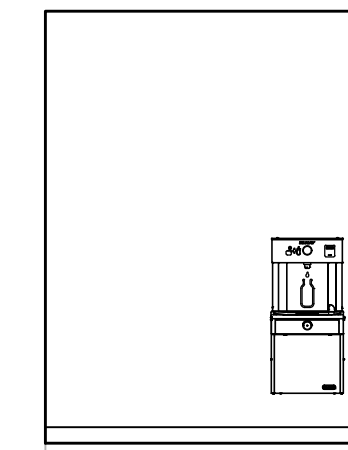
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Scale: 1/4"=1'-0"



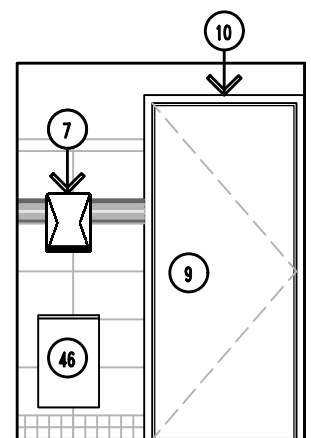
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Scale: 1/4"=1'-0"



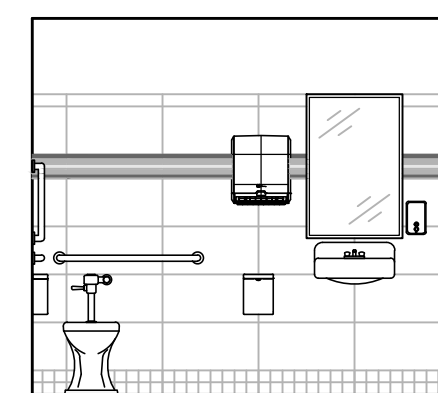
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Scale: 1/4"=1'-0"



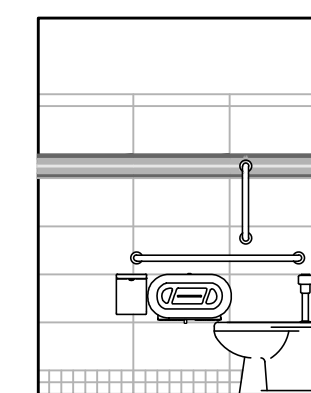
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Scale: 1/4"=1'-0"



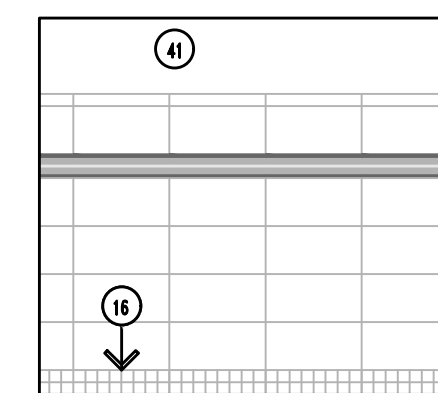
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Scale: 1/4"=1'-0"



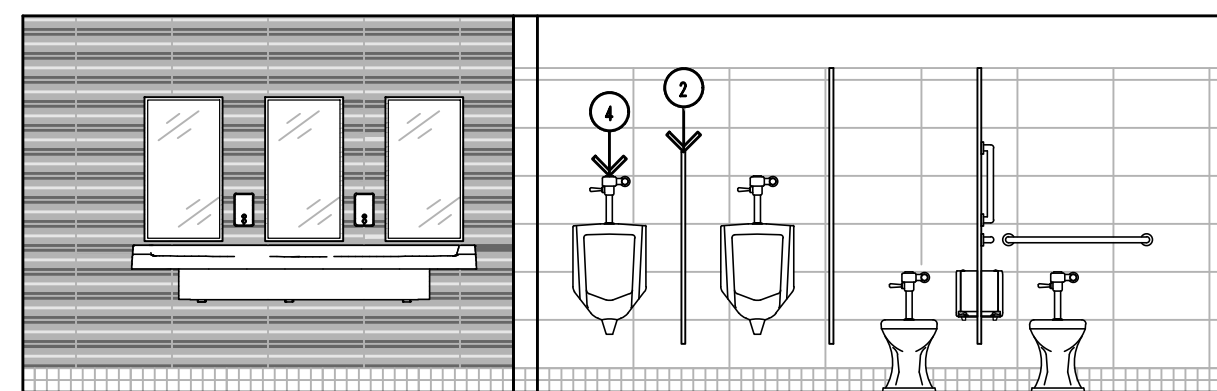
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A5.01 Unisex Restroom 118 South Elevation
Scale: 1/4"=1'-0"
REFER TO 14/A5.01 FOR SIMILAR NOTES



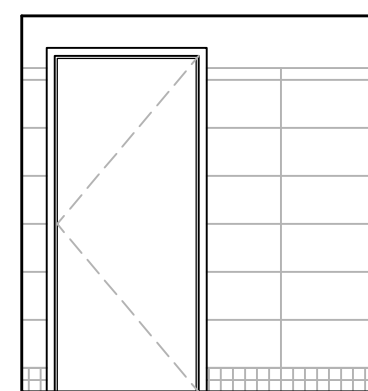
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Scale: 1/4"=1'-0"
REFER TO 15/A5.01 FOR SIMILAR NOTES



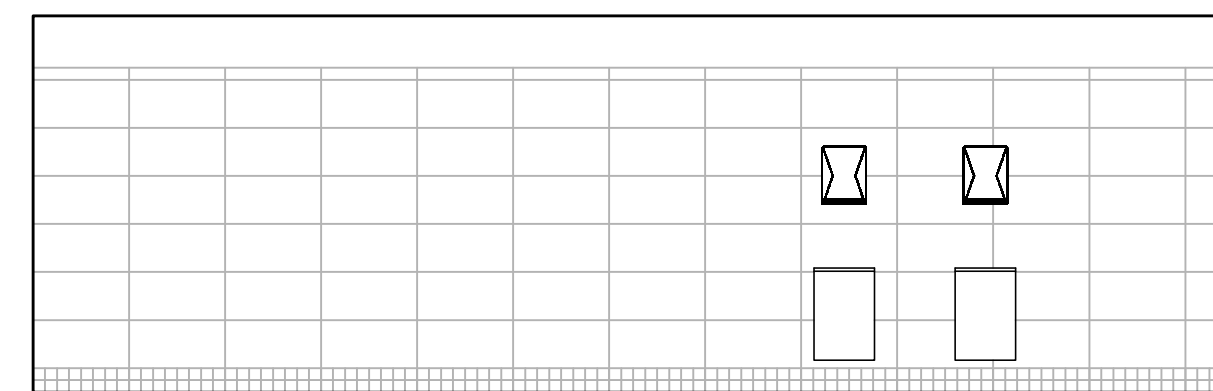
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A5.01 Unisex Restroom 118 North Elevation
Scale: 1/4"=1'-0"



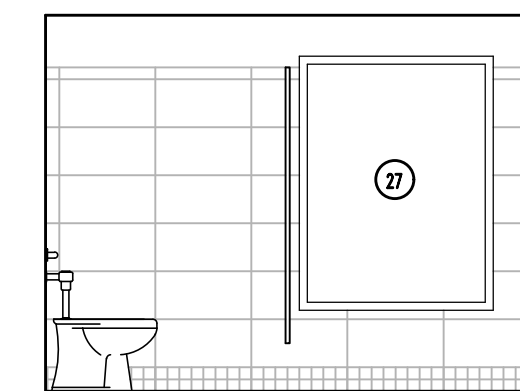
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Scale: 1/4"=1'-0"
REFER TO 2/A5.01 FOR SIMILAR NOTES



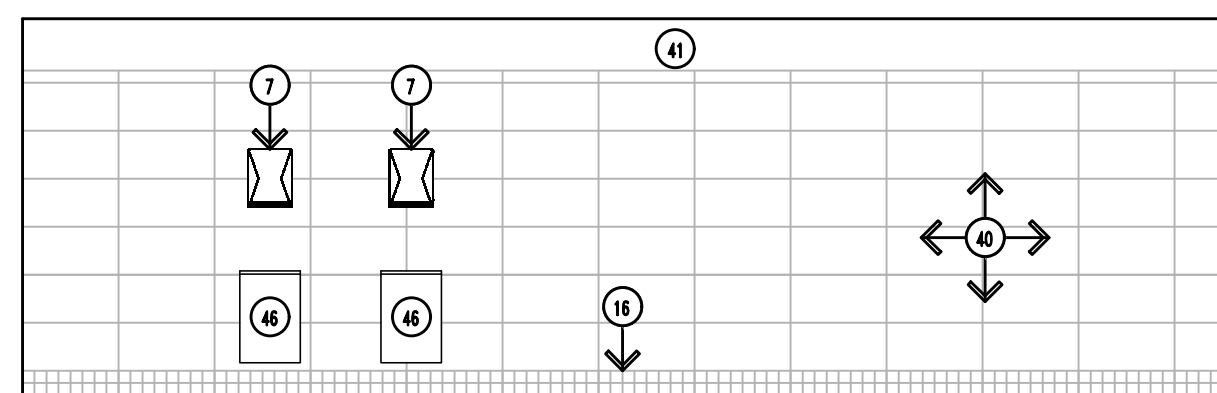
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Scale: 1/4"=1'-0"
REFER TO 3/A5.01 FOR SIMILAR NOTES



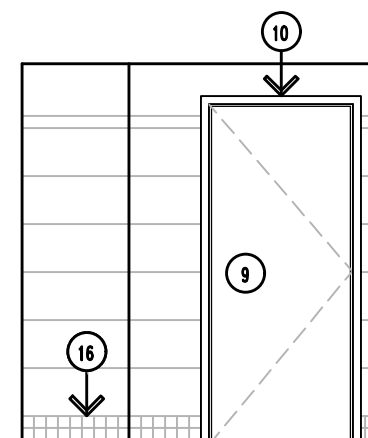
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Scale: 1/4"=1'-0"
REFER TO 4/A5.01 FOR SIMILAR NOTES



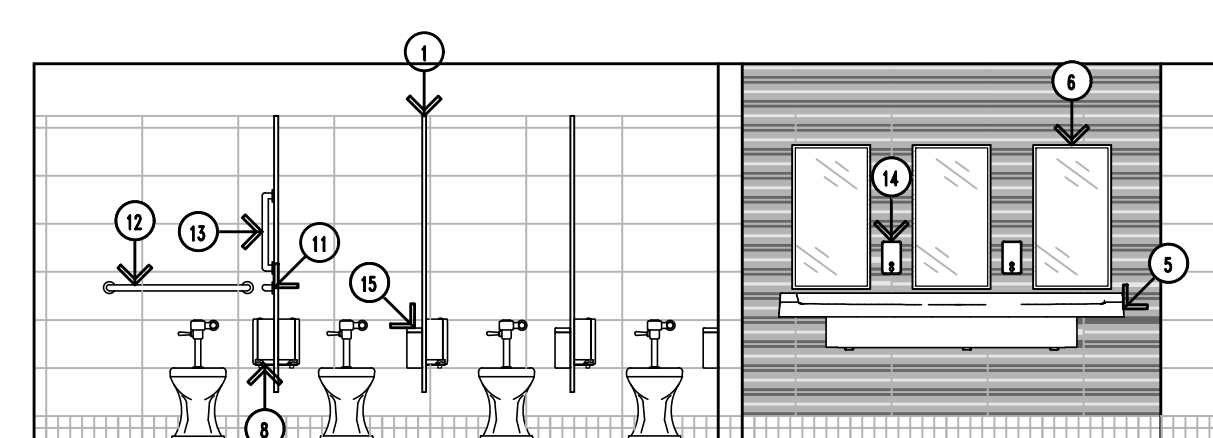
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A5.01 Mens Restroom 139 North Elevation
Scale: 1/4"=1'-0"
REFER TO 1/A5.01 FOR SIMILAR NOTES



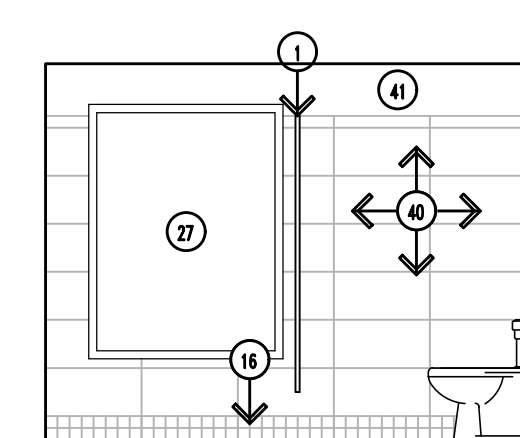
4
A5.01 Womens Restroom 141 West Elevation
Scale: 1/4"=1'-0"



3
A5.01 Womens Restroom 141 South Elevation
Scale: 1/4"=1'-0"



2
A5.01 Womens Restroom 141 East Elevation
Scale: 1/4"=1'-0"



1
A5.01 Womens Restroom 141 North Elevation
Scale: 1/4"=1'-0"



Bidding and Permits: 31 July 2023

Interior Elevations



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

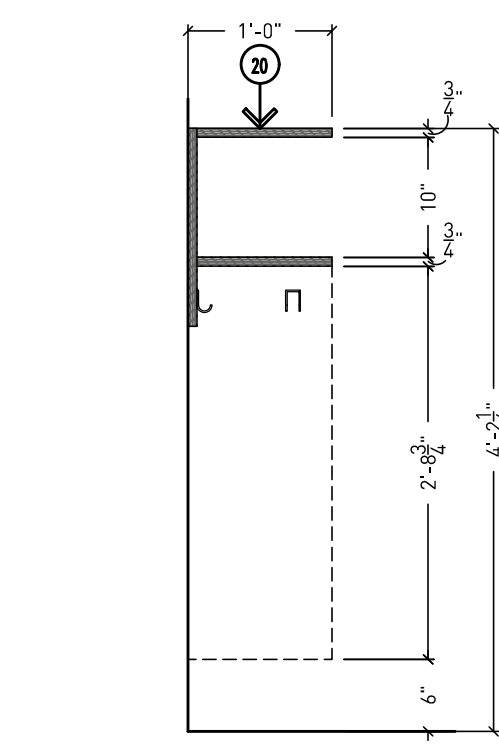
A5.01

GENERAL NOTES:

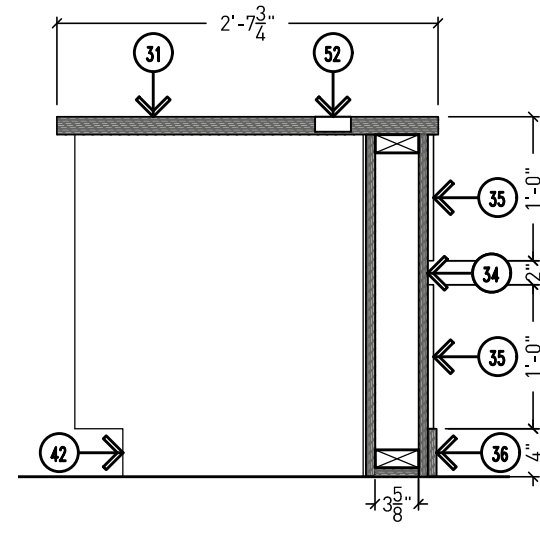
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DRAWING NOTES:

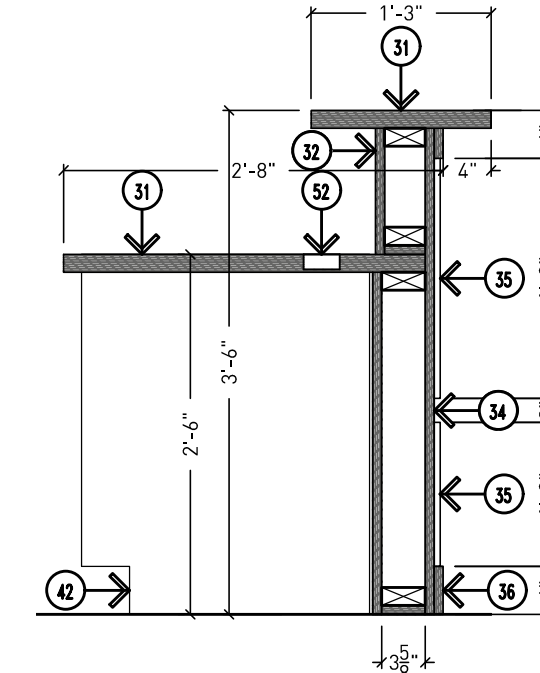
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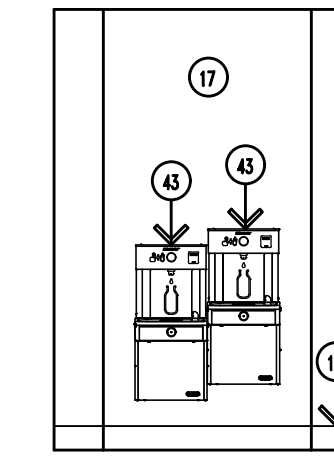
15 GSRP Cubbie Section
Scale: 3/4"=1'-0"



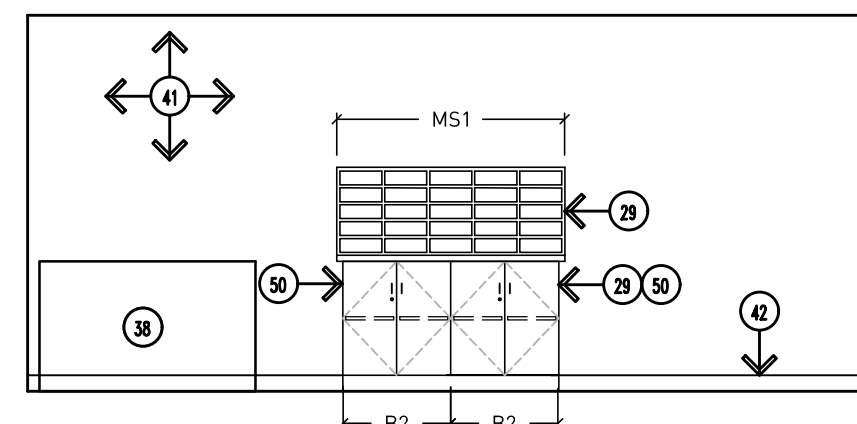
14 Reception Desk Section
Scale: 3/4"=1'-0"



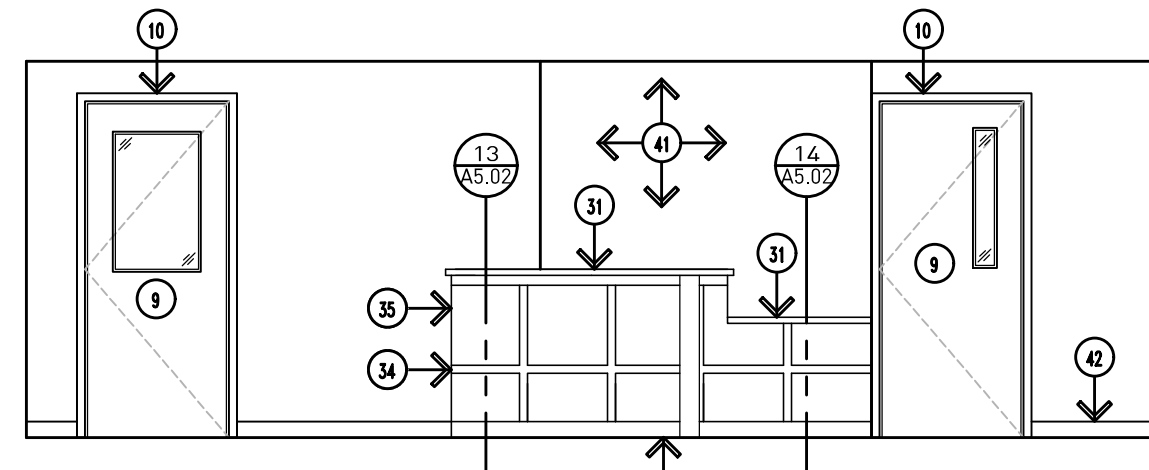
13 Reception Desk Section
Scale: 3/4"=1'-0"



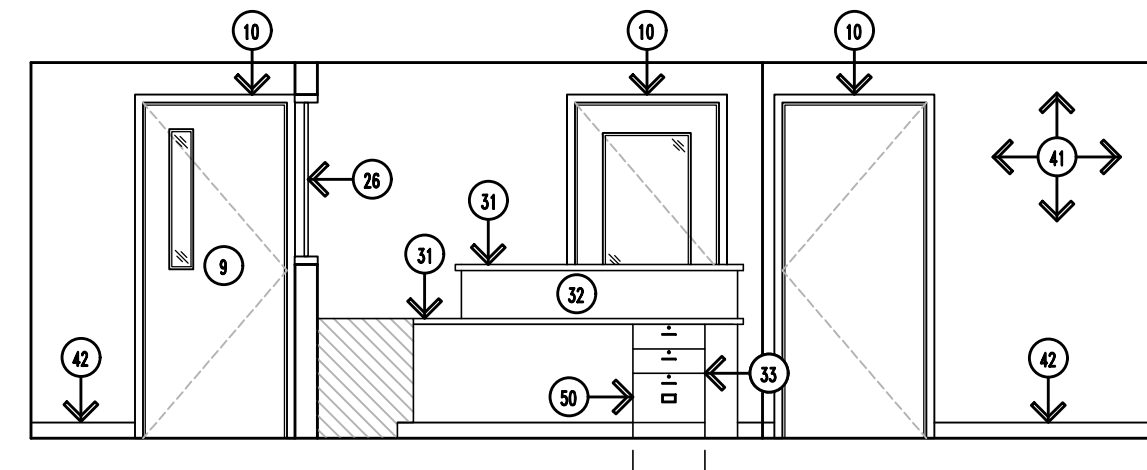
12 Corridor D 150 Drinking Fountains
Scale: 1/4"=1'-0"



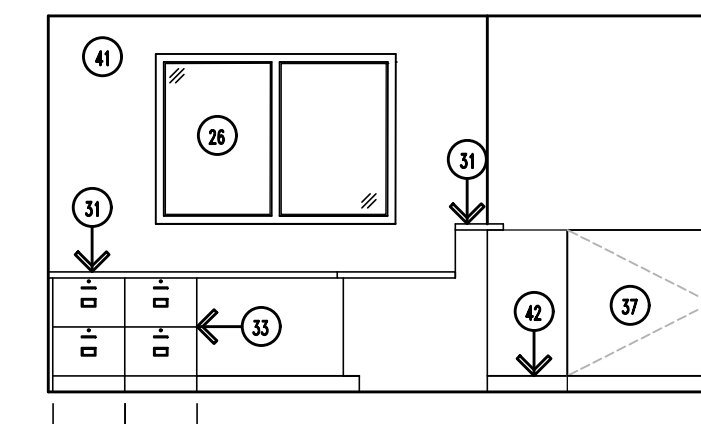
11 145 Reception Mailbox South Elevation
Scale: 1/4"=1'-0"



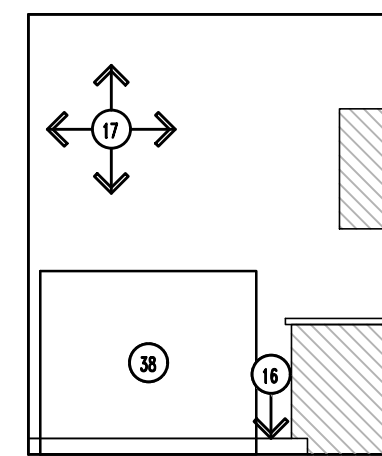
10 145 Reception Desk West Elevation
Scale: 1/4"=1'-0"



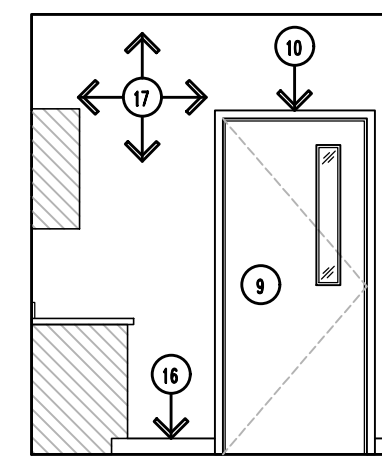
9 145 Reception Desk East Elevation
Scale: 1/4"=1'-0"



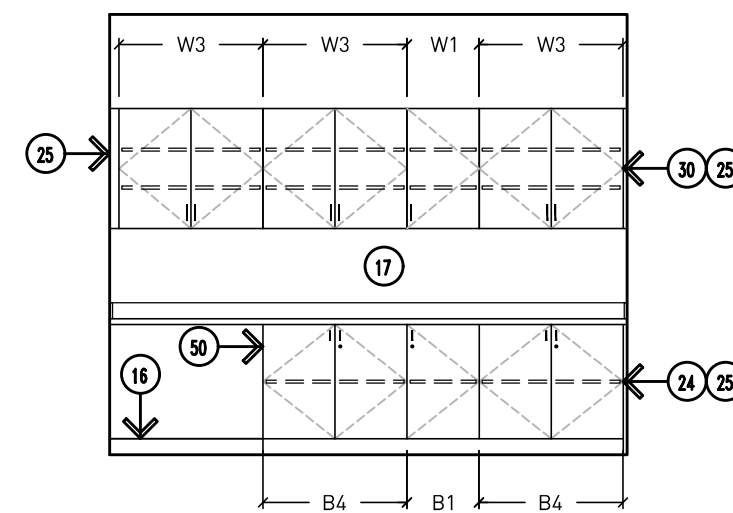
8 145 Reception Desk North Elevation
Scale: 1/4"=1'-0"



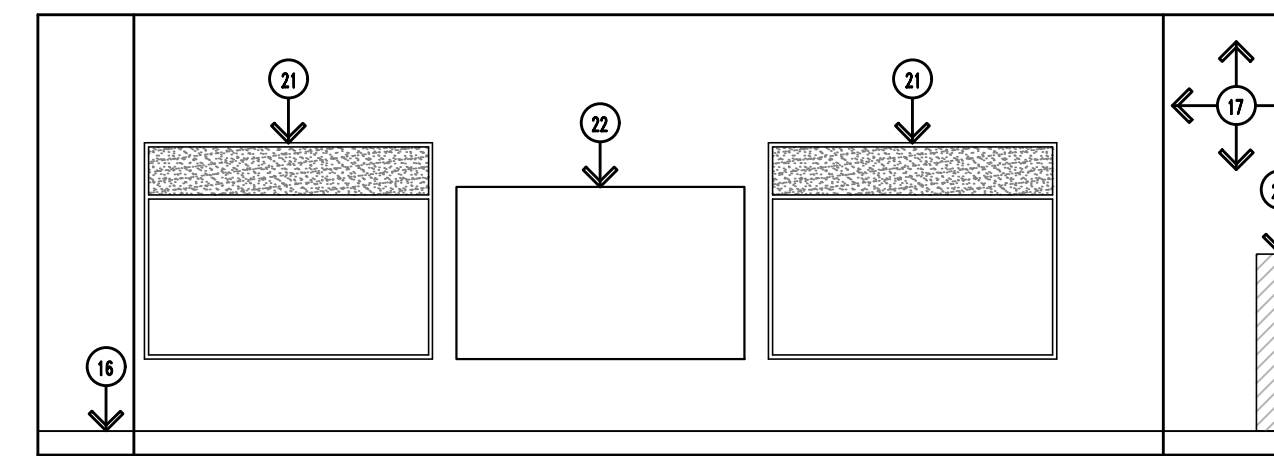
7 152 Storage Room West Elevation
Scale: 1/4"=1'-0"



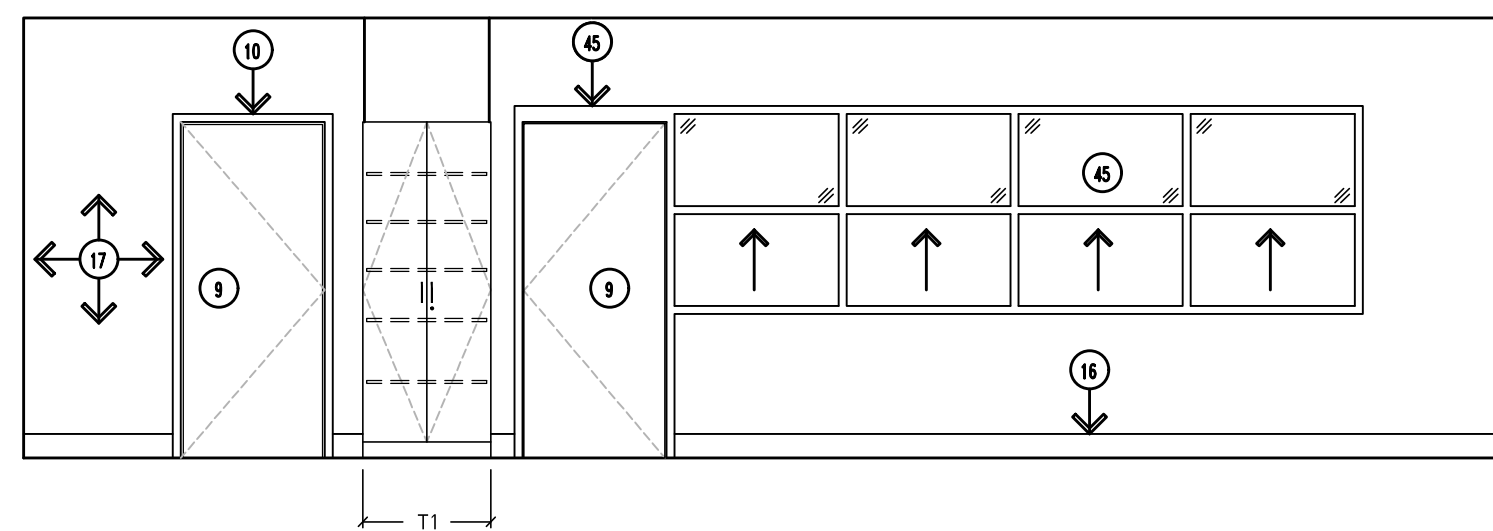
6 152 Storage Room East Elevation
Scale: 1/4"=1'-0"



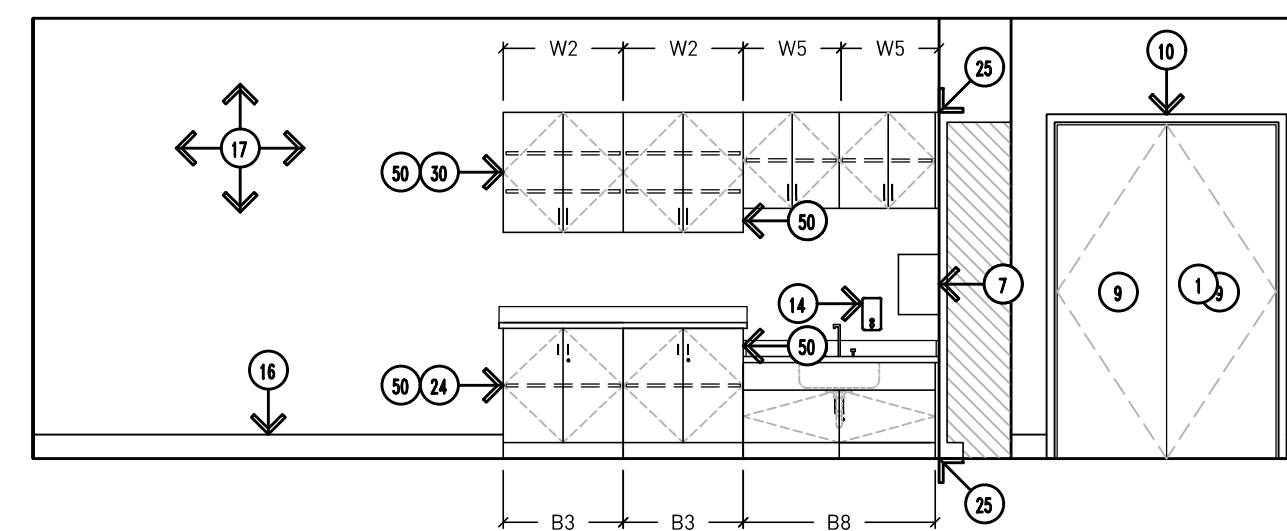
5 152 Storage Room North Elevation
Scale: 1/4"=1'-0"



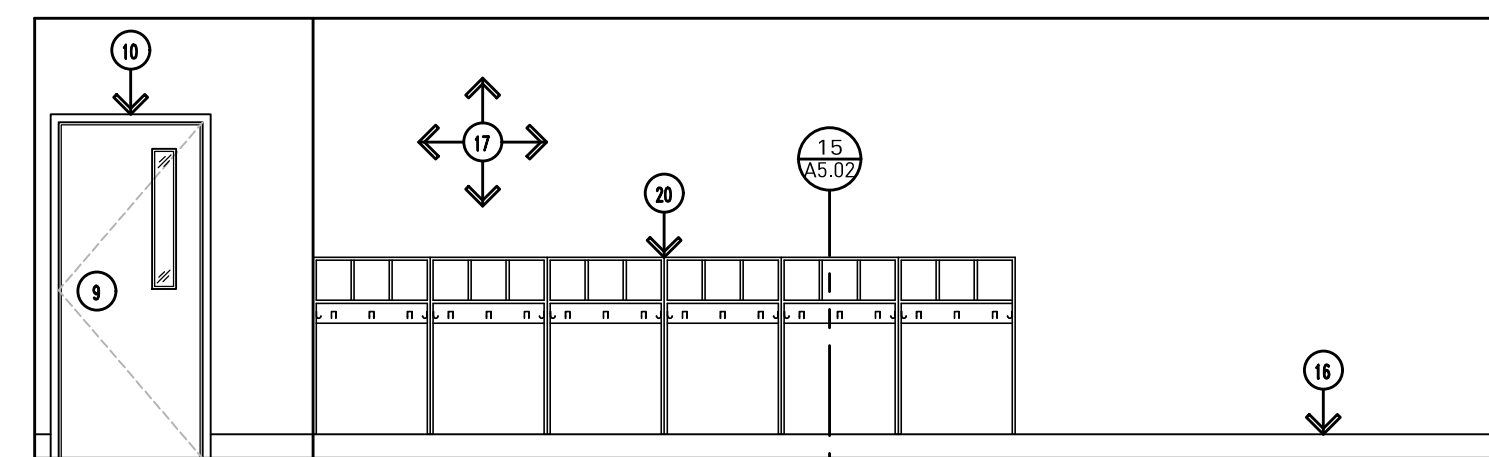
4 GSRP Room West Elevation
Scale: 1/4"=1'-0"
NOTE: ALL GSRP ROOMS SIMILAR



3 GSRP Room South Elevation
Scale: 1/4"=1'-0"
NOTE: ALL GSRP ROOMS SIMILAR



2 GSRP Room East Elevation
Scale: 1/4"=1'-0"
NOTE: ALL GSRP ROOMS SIMILAR



1 GSRP Room North Elevation
Scale: 1/4"=1'-0"
NOTE: ALL GSRP ROOMS SIMILAR



Bidding and Permits: 31 July 2023



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

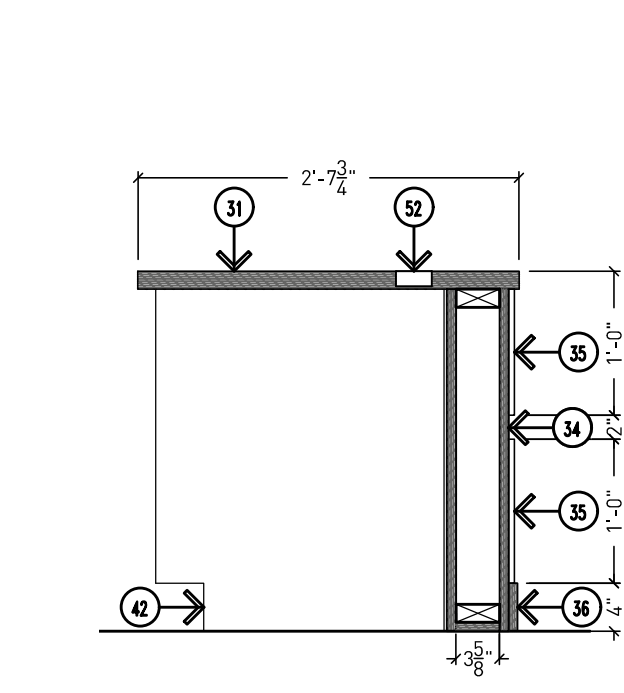
Project No. 3221 A5.02

GENERAL NOTES:

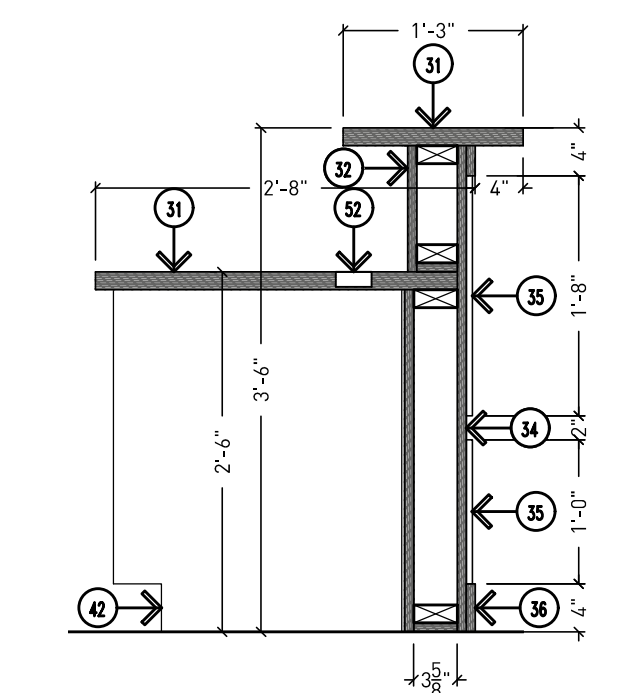
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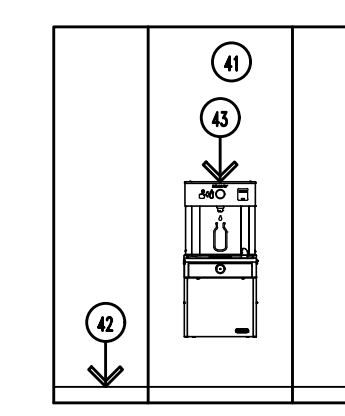
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- 20. CUSTOM PLASTIC LAMINATE COAT CUBBIES WITH HOOKS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 21. WHITE BOARD/ TACKBOARD (TB-3) COMBINATION. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 22. APPROXIMATE LOCATION OF INTERACTIVE FLAT PANEL. COORDINATE BETWEEN TECHNOLOGY AND ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. FURNISHED AND INSTALLED BY TECHNOLOGY VENDOR.
- 23. COUNTERTOP W/SIDE AND BACKSPLASH TO SUIT CONDITIONS. REFER TO FINISH / MATERIALS SCHEDULE.
- 24. BASE CABINET. REFER TO CABINET SCHEDULE.
- 25. FILLER PANEL AS REQUIRED.
- 26. LAMINATED SAFETY GLAZING IN ALUMINUM STOREFRONT.
- 27. EXISTING WINDOW.
- 28. RECEPTION DESK. REFER TO CABINET SCHEDULE.
- 29. MAIL SLOTS. REFER TO CABINET SCHEDULE.
- 30. UPPER WALL CABINETS. REFER TO CABINET SCHEDULE.
- 31. PLASTIC LAMINATE RECEPTION DESK COUNTERTOP. REFER TO MATERIALS SCHEDULE.
- 32. TACKABLE SURFACE MATERIAL (TB-3). REFER TO MATERIALS SCHEDULE.
- 33. PLASTIC LAMINATE FILE DRAWER. REFER TO MATERIALS SCHEDULE.
- 34. PLASTIC LAMINATE REVEAL. REFER TO MATERIALS SCHEDULE.
- 35. PLASTIC LAMINATE RECEPTION DESK. REFER TO MATERIALS SCHEDULE.
- 36. PLASTIC LAMINATE BASE. REFER TO MATERIALS SCHEDULE.
- 37. PLASTIC LAMINATE ENTRY GATE WITH SELF-CLOSING CONTINUOUS HINGE AND SELF-LATCHING HARDWARE. REFER TO MATERIALS SCHEDULE.
- 38. EXISTING OFFICE EQUIPMENT.
- 39. WALL-MOUNTED LAVATORY MOUNTED PER CHILD ADA REQUIREMENTS WITH BATTERY OPERATED FAUCET. PROVIDE CONCEALED WALL CARRIER WITH FLOOR SUPPORTS.
- 40. CERAMIC / PORCELAIN WALL TILE. REFER TO FINISH / MATERIALS SCHEDULE.
- 41. PAINTED GYPSUM WALL. REFER TO FINISH / MATERIALS SCHEDULE.
- 42. 4" COVED RUBBER BASE. REFER TO MATERIALS SCHEDULE.
- 43. ELECTRIC WATER COOLER WITH BOTTLE FILLER.
- 44. WALL MOUNTED ADJUSTABLE HEIGHT CHANGING STATION. REFER TO SPECIFICATIONS.
- 45. STOREFRONT FRAMING SYSTEM WITH GLASS. REFER TO DOOR SCHEDULE.
- 46. WASTE RECEPTACLE. REFER TO SPECIFICATIONS.
- 47. WINDOW SHADES. REFER TO MATERIALS SCHEDULE.
- 48. TOP OF MIRROR TO ALIGN WITH TOP OF TILE; BOTTOM OF MIRROR NOT TO EXCEED 40" A.F.F. PER BARRIER FREE REQUIREMENTS.
- 49. WALL MOUNTED DIAPER CHANGING STATION. REFER TO SPECIFICATIONS.
- 50. FINISHED END PANEL AS REQUIRED.
- 51. TACKBOARD (TB-3) WITH ALUMINUM FRAME. REFER TO SPECIFICATIONS.
- 52. 3" GROMMET. REFER TO SPECIFICATIONS.
- 53. LINE OF FURRED OUT WALL BEHIND WASH FOUNTAIN.
- 54. HOSE BIBB ENCLOSURE. REFER TO SPECIFICATIONS.



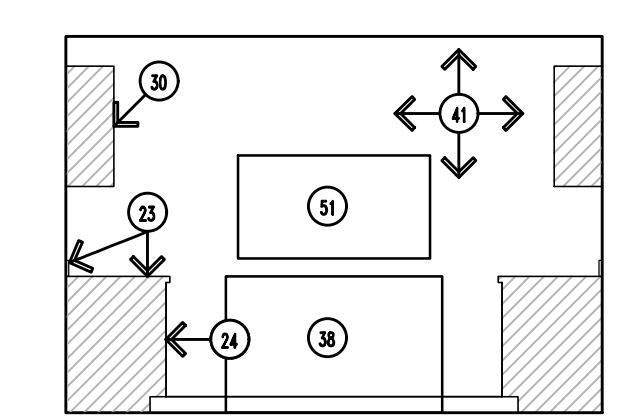
9 Reception Desk 101 Section
Scale: 3/4"=1'-0"



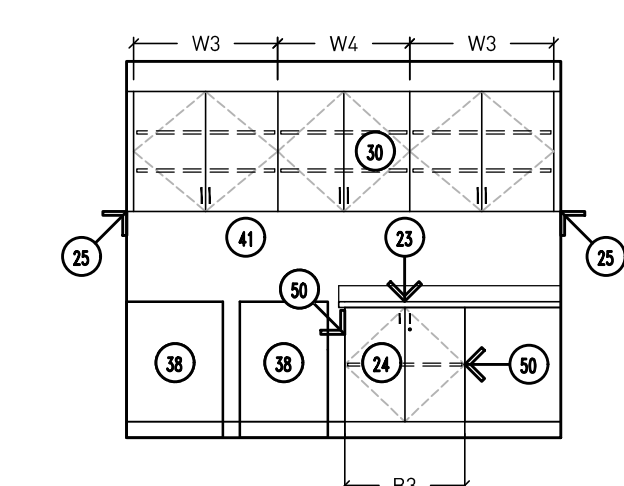
8 Reception Desk 101 Section
Scale: 3/4"=1'-0"



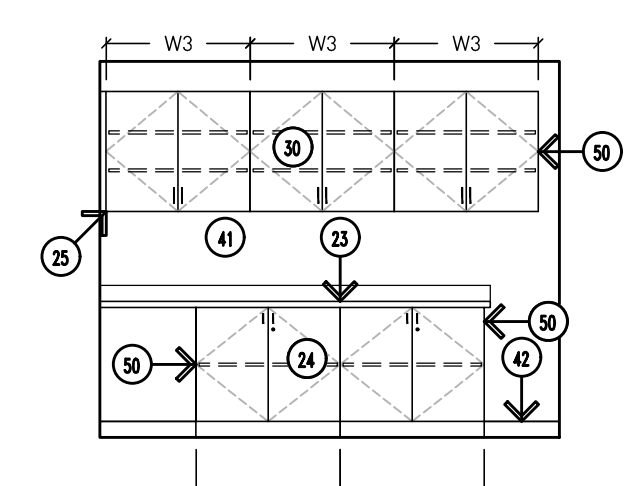
7 Corridor B 125 Drinking Fountains
Scale: 1/4"=1'-0"



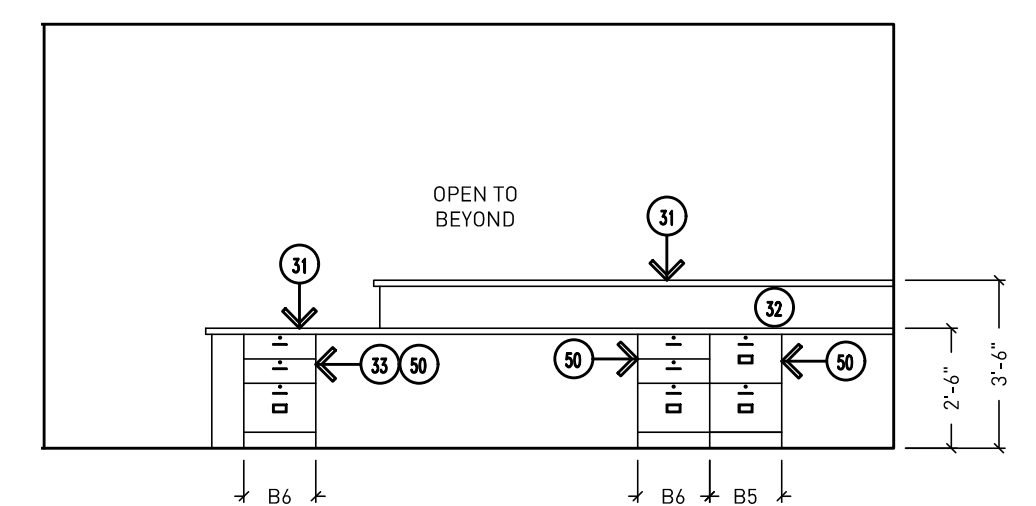
6 133 Copy Room West Elevation
Scale: 1/4"=1'-0"



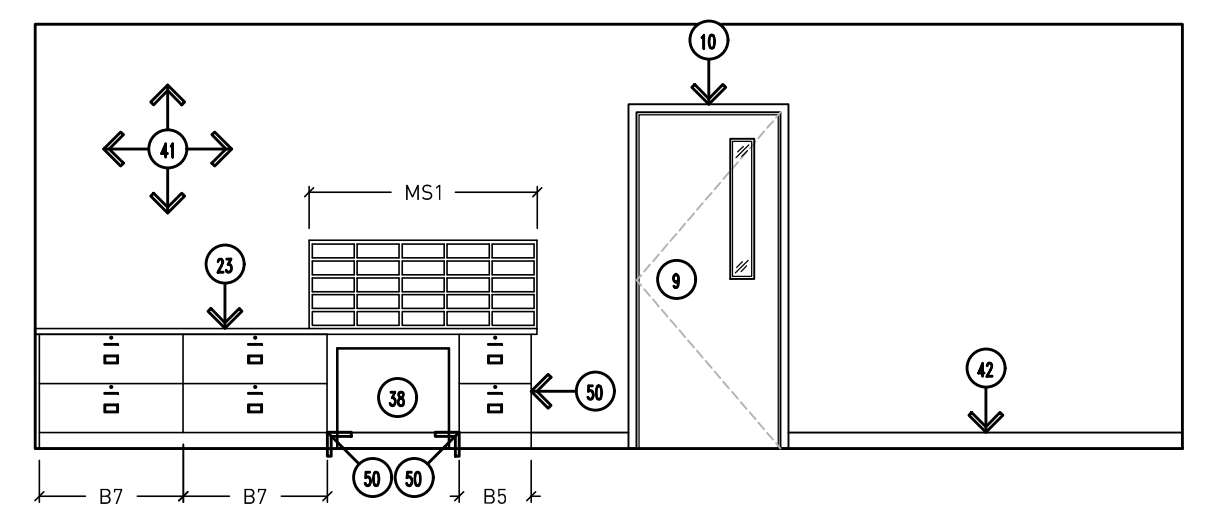
5 133 Copy Room South Elevation
Scale: 1/4"=1'-0"



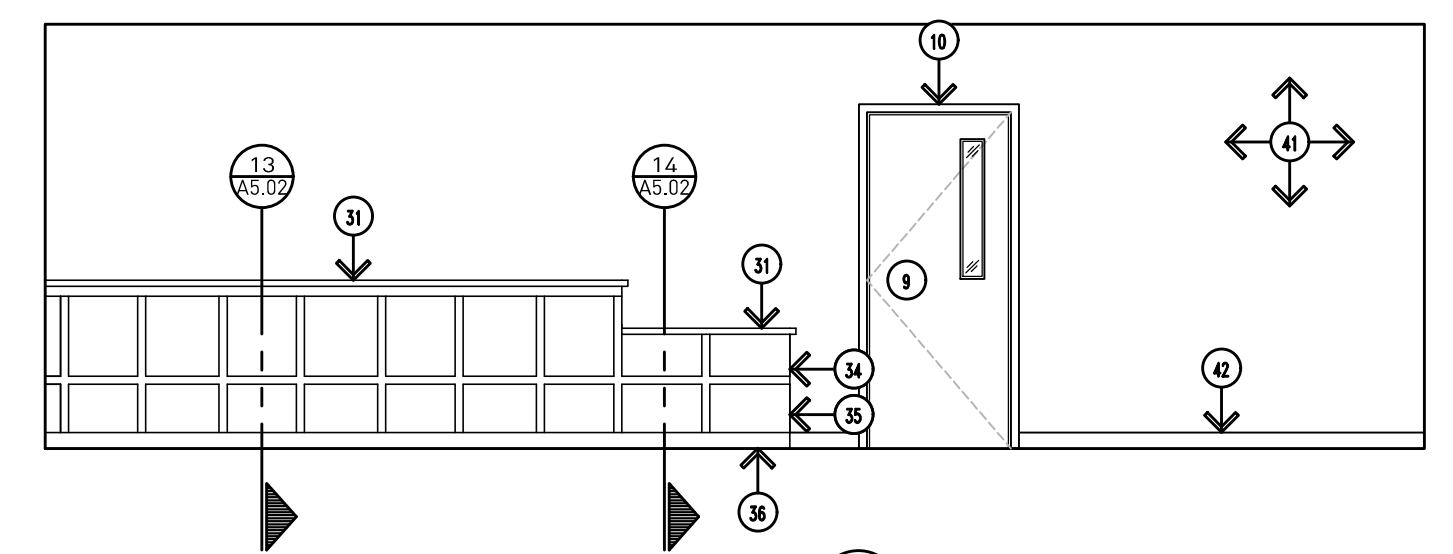
4 133 Copy Room North Elevation
Scale: 1/4"=1'-0"



3 101 Reception Desk South Elevation
Scale: 1/4"=1'-0"



2 101 Reception Desk Storage North Elevation
Scale: 1/4"=1'-0"



1 101 Reception Desk North Elevation
Scale: 1/4"=1'-0"



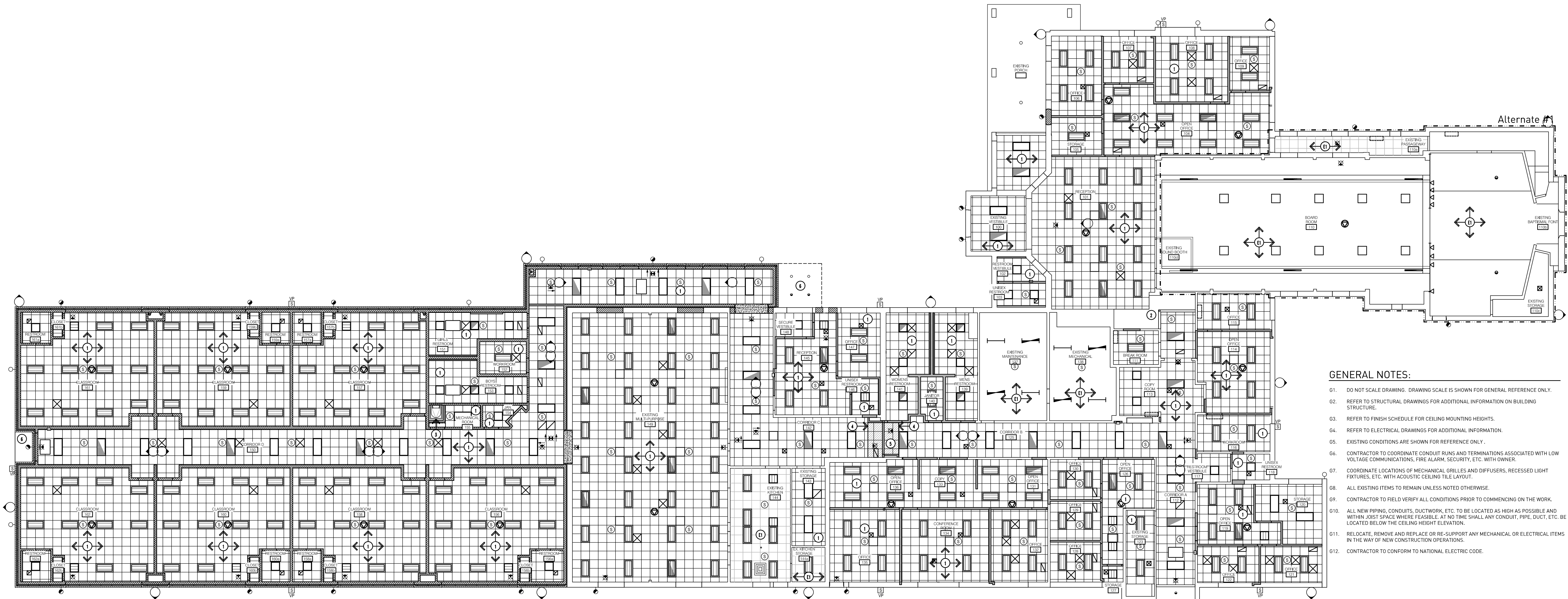
Bidding and Permits: 31 July 2023



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A5.03



- GENERAL NOTES:**
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
 - G2. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON BUILDING STRUCTURE.
 - G3. REFER TO FINISH SCHEDULE FOR CEILING MOUNTING HEIGHTS.
 - G4. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - G5. EXISTING CONDITIONS ARE SHOWN FOR REFERENCE ONLY.
 - G6. CONTRACTOR TO COORDINATE CONDUIT RUNS AND TERMINATIONS ASSOCIATED WITH LOW VOLTAGE COMMUNICATIONS, FIRE ALARM, SECURITY, ETC. WITH OWNER.
 - G7. COORDINATE LOCATIONS OF MECHANICAL GRILLES AND DIFFUSERS, RECESSED LIGHT FIXTURES, ETC. WITH ACOUSTIC CEILING TILE LAYOUT.
 - G8. ALL EXISTING ITEMS TO REMAIN UNLESS NOTED OTHERWISE.
 - G9. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCING ON THE WORK.
 - G10. ALL NEW PIPING, CONDUITS, DUCTWORK, ETC. TO BE LOCATED AS HIGH AS POSSIBLE AND WITHIN JOIST SPACE WHERE FEASIBLE. AT NO TIME SHALL ANY CONDUIT, PIPE, DUCT, ETC. BE LOCATED BELOW THE CEILING HEIGHT ELEVATION.
 - G11. RELOCATE, REMOVE AND REPLACE OR RE-SUPPORT ANY MECHANICAL OR ELECTRICAL ITEMS IN THE WAY OF NEW CONSTRUCTION OPERATIONS.
 - G12. CONTRACTOR TO CONFORM TO NATIONAL ELECTRIC CODE.

1 Composite RCP
Scale: 3/32"=1'-0"

LEGEND CONTINUED:

- CEILING MOUNTED ACU - REFER TO MECHANICAL DRAWINGS
- CAMERA - REFER TO TECHNOLOGY DRAWINGS
- WAP - REFER TO TECHNOLOGY DRAWINGS
- CEILING MOUNTED SPEAKER - REFER TO TECHNOLOGY DRAWINGS
- WALL MOUNTED SPEAKER - REFER TO TECHNOLOGY DRAWINGS
- WALL MOUNTED ACU. MOUNT HIGH ON THE WALL - REFER TO MECHANICAL DRAWINGS

LEGEND CONTINUED:

- SUPPLY AIR DIFFUSER - REFER TO MECHANICAL DRAWINGS
- RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
- EXISTING SUPPLY AIR DIFFUSER
- EXISTING RETURN AIR GRILLE
- EXISTING 1X1 LIGHT
- EXISTING RECESSED CAN LIGHT
- EXISTING TRACK LIGHT
- EXISTING CEILING FAN

LEGEND CONTINUED:

- LINEAR 4" LIGHT WITH EMERGENCY BACK UP - REFER TO ELECTRICAL DRAWINGS
- 8" ROUND RECESSED CAN LIGHT - REFER TO ELECTRICAL DRAWINGS
- 8" ROUND RECESSED CAN LIGHT WITH EMERGENCY BACK UP - REFER TO ELECTRICAL DRAWINGS
- SURFACE OR PENDANT MOUNTED LED EXIT LIGHT WITH BATTERY PACK AND DIRECTIONAL ARROWS AS INDICATED ON PLAN - REFER TO ELECTRICAL DRAWINGS
- EXTERIOR LIGHT - REFER TO ELECTRICAL DRAWINGS
- 3"x4" LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP - REFER TO ELECTRICAL DRAWINGS
- TRACK LIGHT - REFER TO ELECTRICAL DRAWINGS
- EXTERIOR LIGHT WITH EMERGENCY BATTERY BACKUP - REFER TO ELECTRICAL DRAWINGS
- ACOUSTIC CEILING TILE

LEGEND:

- 2X4 RECESSED LED LIGHT FIXTURE WITH CENTER BASKET - REFER TO ELECTRICAL DRAWINGS
- REPRESENTS LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP - REFER TO ELECTRICAL DRAWINGS
- 2X4 RECESSED FLAT PANEL LED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- REPRESENTS LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP - REFER TO ELECTRICAL DRAWINGS
- 2X2 RECESSED LED LIGHT FIXTURE WITH CENTER BASKET - REFER TO ELECTRICAL DRAWINGS
- 2X2 RECESSED FLAT PANEL LED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- REPRESENTS LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP - REFER TO ELECTRICAL DRAWINGS
- LINEAR 4" LIGHT - REFER TO ELECTRICAL DRAWINGS

DRAWING NOTES:

1. SUSPENDED ACOUSTICAL TILE AND METAL GRID SUSPENSION SYSTEM.
2. PATCH AND REPAIR EXISTING GYPSUM BOARD/PLASTER CEILING, FINISH 3 COATS (PT-12, FLAT).
3. 30" x 36" ROOF HATCH -- COORDINATE WITH ROOF STRUCTURE.
4. AXIOM TRIM PIECE AS REQUIRED TO SUIT CONDITIONS - REFER TO SECTION 3/A9.52 FOR MORE INFORMATION.
5. LOWER CEILING TO ALLOW ELECTRICAL CONDUIT AND DATA CABLING ABOVE DOOR - REFER TO SECTION 3/A9.52 FOR MORE INFORMATION.
6. EIFS CANOPY FINISH.

EXISTING TO REMAIN:

- E1. EXISTING CEILING SYSTEM TO REMAIN.



Composite RCP
EHRESMAN ARCHITECTS
ehresmanarchitects.com

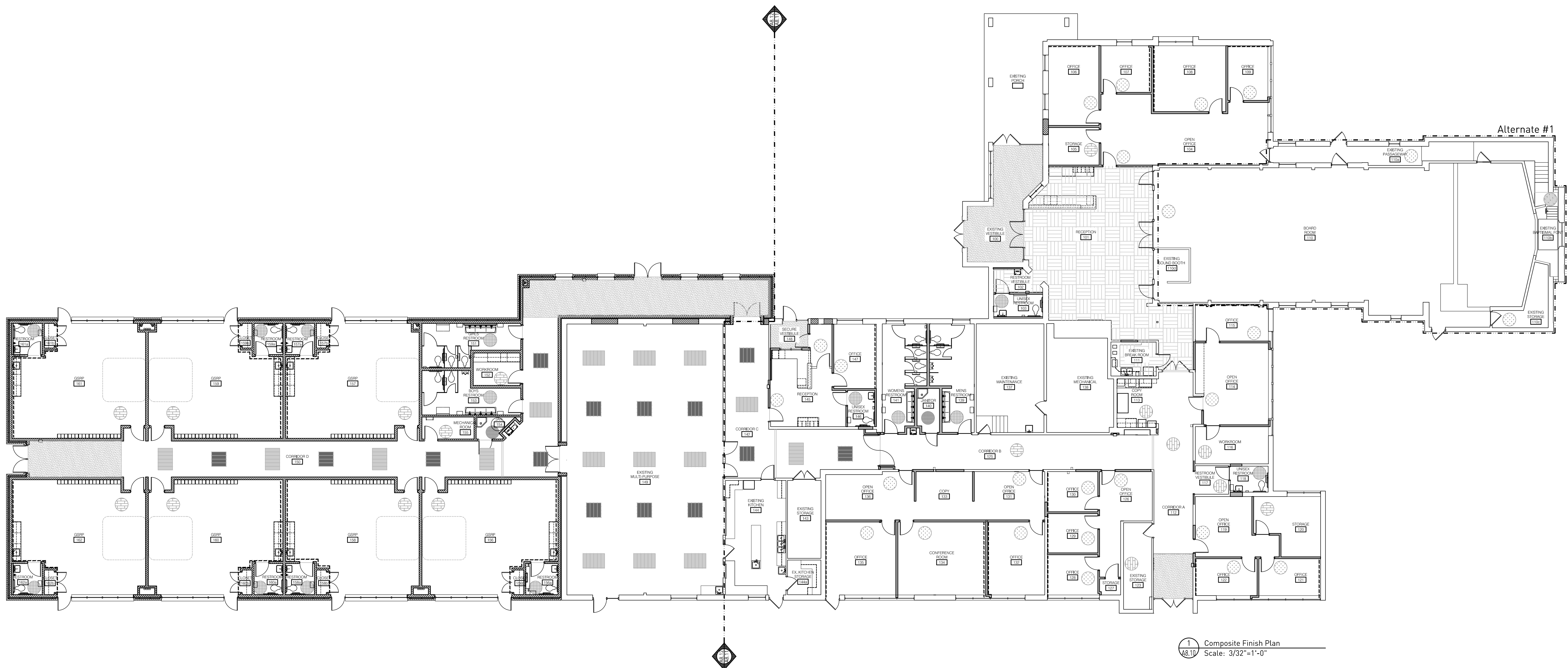
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A6.10

Bidding and Permits: 31 July 2023





Bidding and Permits: 31 July 2023

Composite Finish Plan

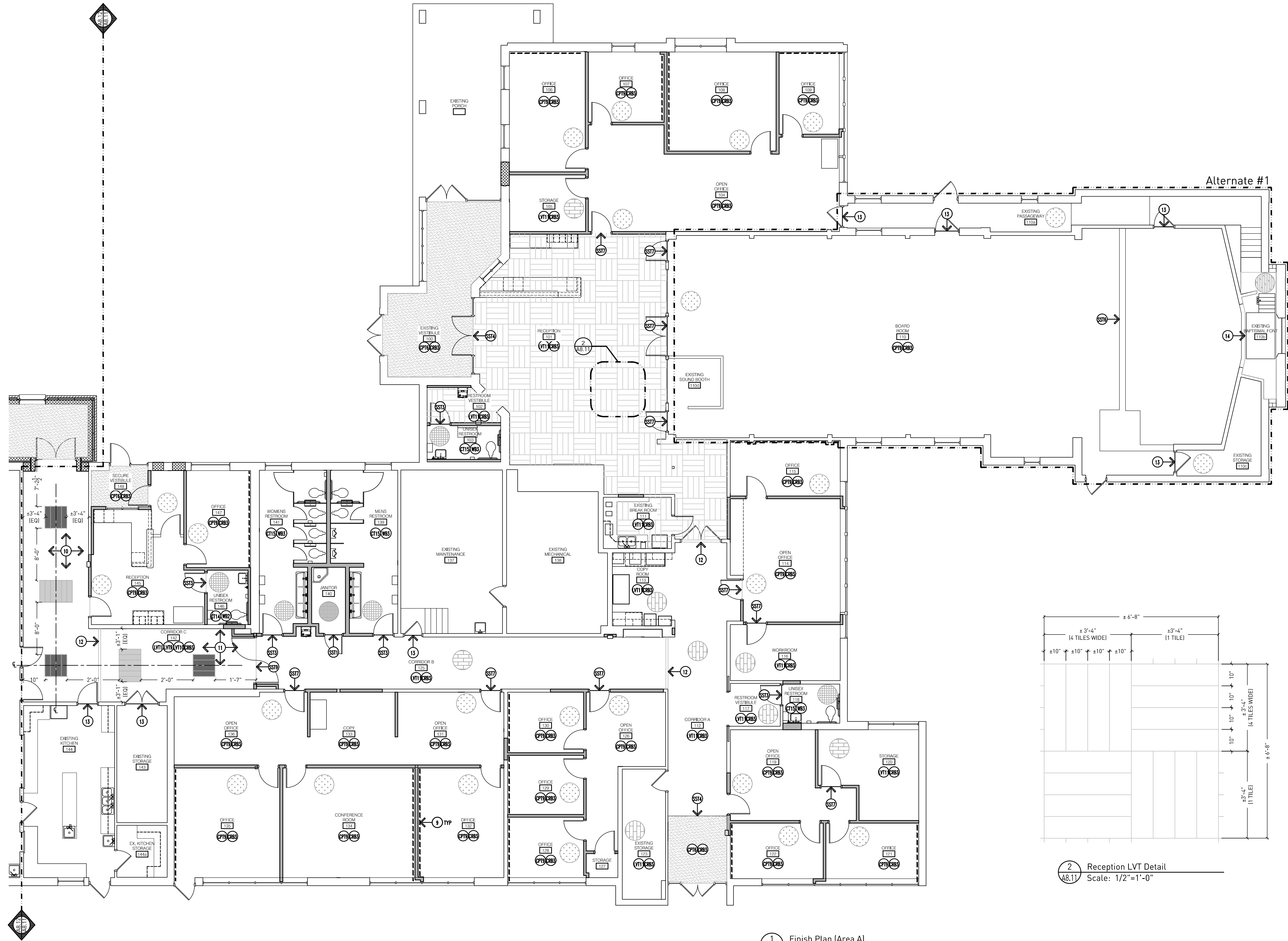
EHRESMAN ARCHITECTS
 ehresmanarchitects.com

Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

A8.10





1 Finish Plan (Area A)
Scale: 1/8"=1'-0"

2 Reception LVT Detail
Scale: 1/2"=1'-0"

GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS IN FIELD PRIOR TO COMMENCING ON THE WORK. IF ANY DISCREPANCIES EXIST BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD CONDITIONS, NOTIFY THE ARCHITECT FOR DIRECTION.
- G3. REFER TO ROOM FINISH SCHEDULE AND/OR INTERIOR ELEVATIONS FOR FURTHER INFORMATION, MATERIALS, ETC.
- G4. CONTRACTOR TO PATCH/REPAIR AND LEVEL FLOOR AS REQUIRED AT NORTH END OF CORRIDOR WHERE NEW LUXURY VINYL TILE MEETS EXISTING VINYL COMPOSITION FLOOR.
- G5. PROPERLY PREPARE SUBSTRATE PRIOR TO INSTALLATION OF FLOORING MATERIALS PER MANUFACTURER'S REQUIREMENTS.
- G6. ALL CARPET IS FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- G7. ALL LUXURY VINYL TILE IS FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- G8. ALL CERAMIC AND/OR PORCELAIN TILE IS FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- G9. ADHESIVES, TRANSITIONS, AND BASE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- G10. PROVIDE METAL TRANSITION AT ALL TRANSITIONS BETWEEN DISSIMILAR FLOORING MATERIALS.
- G11. LUXURY VINYL TILES TO BE INSTALLED LENGTHWISE IN CORRIDORS. CONTRACTOR TO DETERMINE APPROPRIATE INSTALLATION METHOD IN CORNERS WHEN TILE DIRECTION ROTATES 90 DEGREES.
- G12. LUXURY VINYL TILES TO BE INSTALLED PERPENDICULAR TO TEACHING WALL IN CLASSROOMS.
- G13. CARPET TILE PLANK DIRECTION TO FOLLOW LVT CORRIDOR DIRECTION.

DRAWING NOTES:

- 1. LUXURY VINYL TILE INSTALLED IN RANDOM PATTERN. REFER TO ENLARGED PATTERN DETAIL FOR PERCENTAGE OF EACH COLOR TO BE USED.
- 2. LUXURY VINYL TILE (LVT-9), REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
- 3. LUXURY VINYL TILE (LVT-10), REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
- 4. WALK OFF CARPET (CPT-6), REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
- 5. LOCATION OF CORRIDOR ACCENT SQUARES / RECTANGLES TO BE DETERMINED BASED ON DIMENSIONS INDICATED IN CORRIDOR OUTSIDE CLASSROOMS 156 - 162. ALIGN ACCENT SQUARES / RECTANGLES DOWN LENGTH OF CORRIDOR, BASED ON THESE DIMENSIONS.
- 6. ALIGN ACCENT SQUARES/RECTANGLES DOWN THE LENGTH OF CORRIDOR D 150, BASED ON CENTER OF ACCENT SQUARE AT END OF CORRIDOR, AS SHOWN.
- 7. BOUND AREA RUG (1 PER CLASSROOM) - REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
- 8. 4" H RUBBER WALL BASE (CRB-3) AT MILLWORK LOCATIONS.
- 9. ACCENT WALL PAINT LOCATION - REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
- 10. LOCATION OF CORRIDOR ACCENT SQUARES / RECTANGLES TO BE DETERMINED BASED ON DIMENSIONS INDICATED IN CORRIDOR OUTSIDE OF RECEPTION 145. ALIGN ACCENT SQUARES / RECTANGLES DOWN LENGTH OF CORRIDOR, BASED ON THESE DIMENSIONS.
- 11. ALIGN ACCENT SQUARES/RECTANGLES DOWN THE LENGTH OF CORRIDOR B 125, BASED ON CENTER OF ACCENT SQUARE AT END OF CORRIDOR, AS SHOWN.
- 12. 4" TURNBOARD TO BE USED AT CHANGE OF DIRECTION IN CORRIDOR.
- 13. EXISTING FLOORING TO REMAIN - CPV EXISTING FLOORING MATERIAL FOR PROPER TRANSITION STRIP.
- 14. WOOD PLATFORM AND TRIM, STAINED TO MATCH EXISTING. SUBMIT SAMPLE OF CUSTOM MATCHED STAIN TO ARCHITECT FOR FINAL APPROVAL.

FLOORING LEGEND:

- LVT - LUXURY VINYL TILE
- CT - CERAMIC OR PORCELAIN TILE
- CONC - SEALED CONCRETE
- CPT - CARPET
- WB - WOOD PLATFORM
- CPT-#: CARPET
- CRB-#: COVED RUBBER BASE
- LVT-#: LUXURY VINYL TILE
- SGT-#: STRUCTURAL GLAZED TILE (WALL BASE)
- SST-#: FLOOR TRANSITION
- WB-#: WALL BASE



Bidding and Permits: 31 July 2023

Finish Plan (Area A)






Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

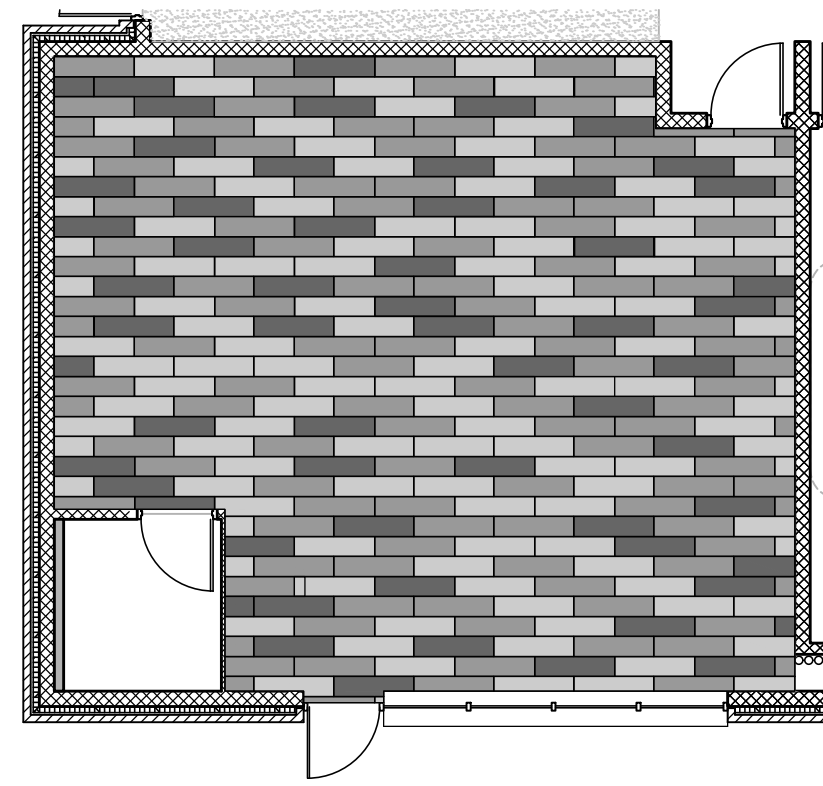
Project No. 3221

A8.11

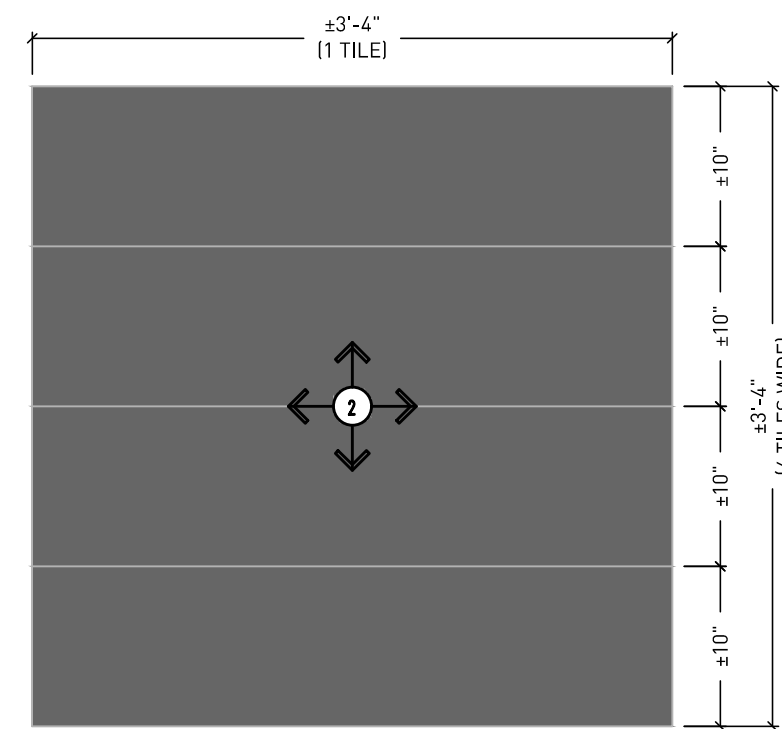


LEGEND:

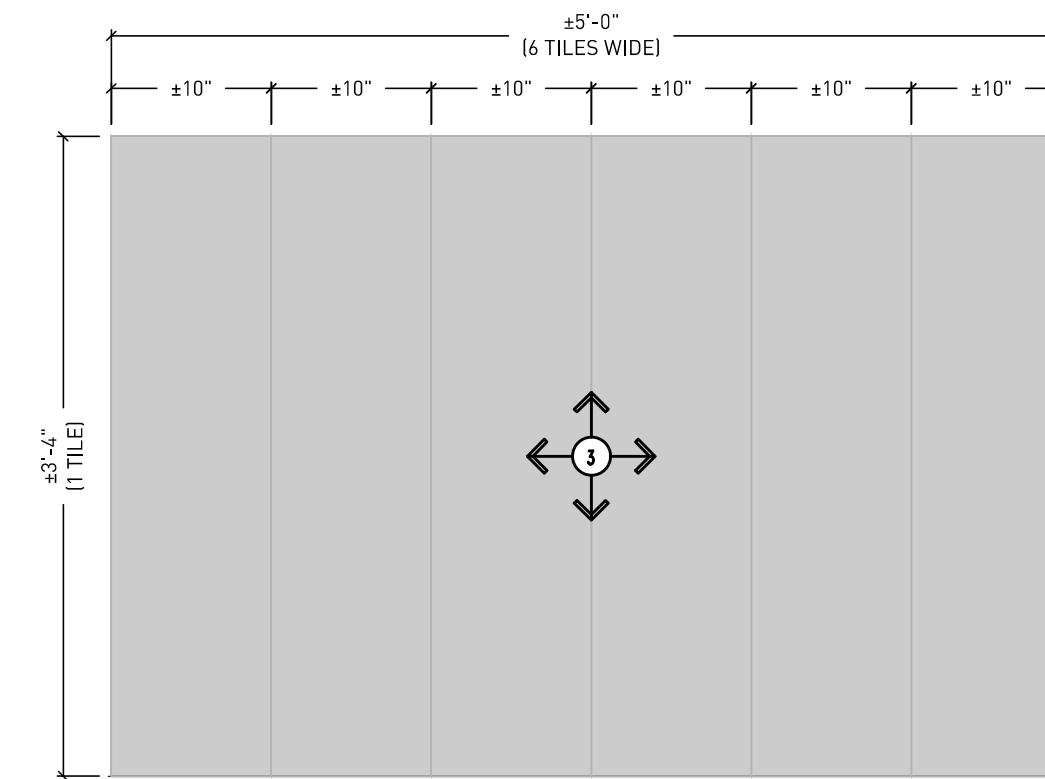
-  LUXURY VINYL TILE (LVT-11 - 40% OF RANDOM PATTERN IN CLASSROOM (TYP.) - REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
-  LUXURY VINYL TILE (LVT-81 - 40% OF RANDOM PATTERN IN CLASSROOM (TYP.) - REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
-  LUXURY VINYL TILE (LVT-91 - 20% OF RANDOM PATTERN IN CLASSROOM (TYP.) - REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.



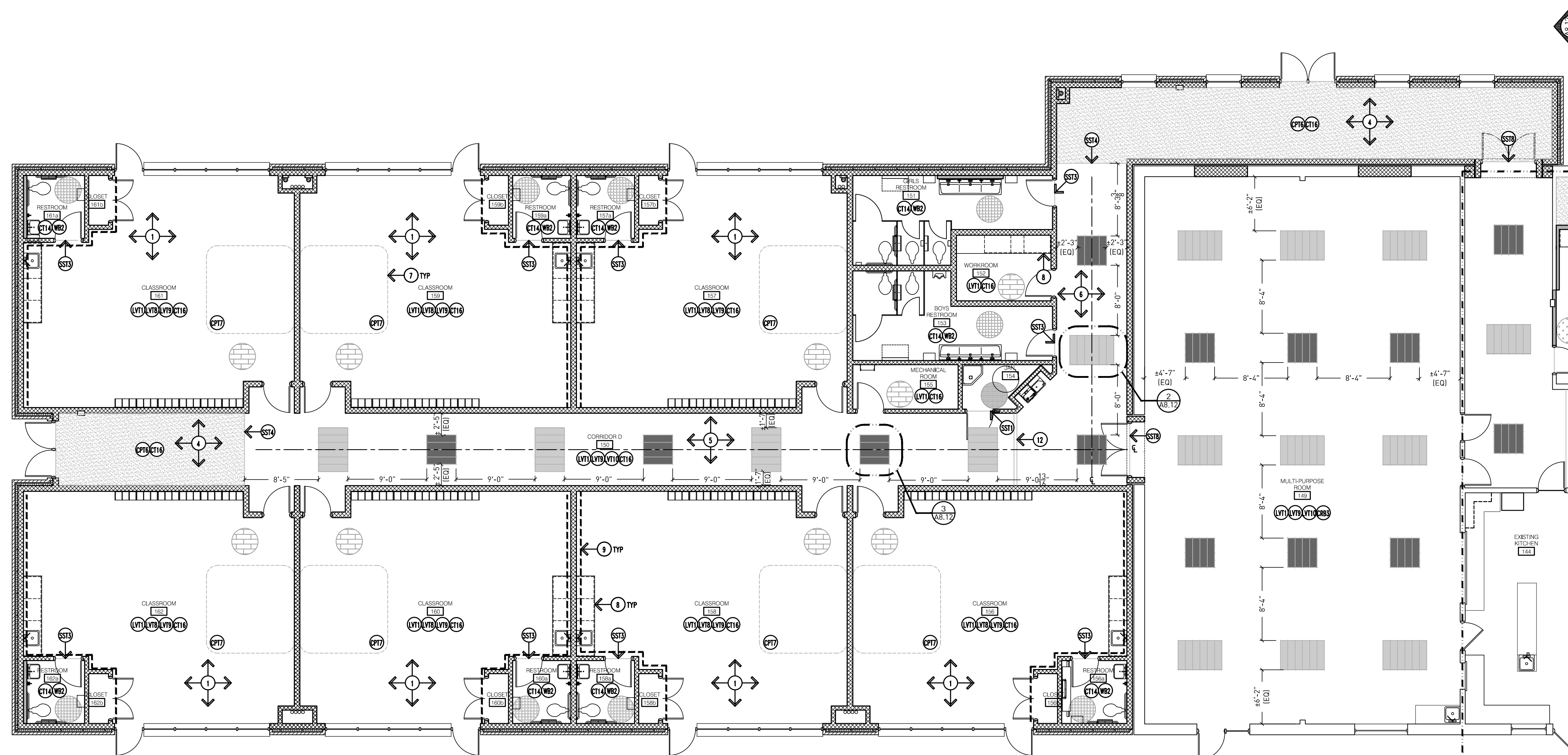
4 Enlarged Classroom Floor Tile Plan (Typical)
A8.12 Scale: 1/8"=1'-0"



3 Typical LVT Detail
A8.12 Scale: 1"=1'-0"



2 Typical LVT Detail
A8.12 Scale: 1"=1'-0"



1 Floor Plan (Area B)
A2.12 Scale: 1/8"=1'-0"


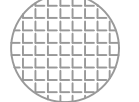



GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS IN FIELD PRIOR TO COMMENCING ON THE WORK. IF ANY DISCREPANCIES EXIST BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD CONDITIONS, NOTIFY THE ARCHITECT FOR DIRECTION.
- G3. REFER TO ROOM FINISH SCHEDULE AND/OR INTERIOR ELEVATIONS FOR FURTHER INFORMATION, MATERIALS, ETC.
- G4. CONTRACTOR TO PATCH/REPAIR AND LEVEL FLOOR AS REQUIRED AT NORTH END OF CORRIDOR WHERE NEW LUXURY VINYL TILE MEETS EXISTING VINYL COMPOSITION FLOOR.
- G5. PROPERLY PREPARE SUBSTRATE PRIOR TO INSTALLATION OF FLOORING MATERIALS PER MANUFACTURER'S REQUIREMENTS.
- G6. ALL CARPET IS FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- G7. ALL LUXURY VINYL TILE IS FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- G8. ALL CERAMIC AND/OR PORCELAIN TILE IS FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- G9. ADHESIVES, TRANSITIONS, AND BASE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- G10. PROVIDE METAL TRANSITION AT ALL TRANSITIONS BETWEEN DISSIMILAR FLOORING MATERIALS.
- G11. LUXURY VINYL TILES TO BE INSTALLED LENGTHWISE IN CORRIDORS. CONTRACTOR TO DETERMINE APPROPRIATE INSTALLATION METHOD IN CORNERS WHEN TILE DIRECTION ROTATES 90 DEGREES.
- G12. LUXURY VINYL TILES TO BE INSTALLED PERPENDICULAR TO TEACHING WALL IN CLASSROOMS.
- G13. CARPET TILE PLANK DIRECTION TO FOLLOW LVT CORRIDOR DIRECTION.

DRAWING NOTES:

1. LUXURY VINYL TILE INSTALLED IN RANDOM PATTERN. REFER TO ENLARGED PATTERN DETAIL FOR PERCENTAGE OF EACH COLOR TO BE USED.
2. LUXURY VINYL TILE (LVT-91), REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
3. LUXURY VINYL TILE (LVT-10), REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
4. WALK OFF CARPET (CPT-6), REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
5. LOCATION OF CORRIDOR ACCENT SQUARES / RECTANGLES TO BE DETERMINED BASED ON DIMENSIONS INDICATED IN CORRIDOR OUTSIDE CLASSROOMS 156 - 162. ALIGN ACCENT SQUARES / RECTANGLES DOWN LENGTH OF CORRIDOR, BASED ON THESE DIMENSIONS.
6. ALIGN ACCENT SQUARES/RECTANGLES DOWN THE LENGTH OF CORRIDOR D 150, BASED ON CENTER OF ACCENT SQUARE AT END OF CORRIDOR, AS SHOWN.
7. BOUND AREA RUG (1 PER CLASSROOM) - REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
8. 4" H RUBBER WALL BASE (CRB-3) AT MILLWORK LOCATIONS.
9. ACCENT WALL PAINT LOCATION - REFER TO MATERIALS SCHEDULE FOR FURTHER INFORMATION.
10. LOCATION OF CORRIDOR ACCENT SQUARES / RECTANGLES TO BE DETERMINED BASED ON DIMENSIONS INDICATED IN CORRIDOR OUTSIDE OF RECEPTION 145. ALIGN ACCENT SQUARES / RECTANGLES DOWN LENGTH OF CORRIDOR, BASED ON THESE DIMENSIONS.
11. ALIGN ACCENT SQUARES/RECTANGLES DOWN THE LENGTH OF CORRIDOR B 125, BASED ON CENTER OF ACCENT SQUARE AT END OF CORRIDOR, AS SHOWN.
12. 4" TURNBOARD TO BE USED AT CHANGE OF DIRECTION IN CORRIDOR.
13. EXISTING FLOORING TO REMAIN - CFV EXISTING FLOORING MATERIAL FOR PROPER TRANSITION STRIP.
14. WOOD PLATFORM AND TRIM, STAINED TO MATCH EXISTING. SUBMIT SAMPLE OF CUSTOM MATCHED STAIN TO ARCHITECT FOR FINAL APPROVAL.

FLOORING LEGEND:

-  LVT - LUXURY VINYL TILE
-  CT - CERAMIC OR PORCELAIN TILE
-  CONC - SEALED CONCRETE
-  CPT - CARPET
-  WB - WOOD PLATFORM

- CPT-#: CARPET
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- LVT-#: LUXURY VINYL TILE
- SGT-#: STRUCTURAL GLAZED TILE (WALL BASE)
- SST-#: FLOOR TRANSITION
- WB-#: WALL BASE



Bidding and Permits: 31 July 2023

Finish Plan (Area B)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A8.12



Alternate #1

ROOM NO.	ROOM DESIGNATION	FLOORING INFORMATION					WALL INFORMATION							CEILING INFORMATION				
		FLOOR MATERIAL	BASE MATERIAL	BASE HEIGHT	FLOORING REMARKS	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	WALL REMARKS	CEILING MATERIAL	CEILING FINISH	HEIGHT A.F.F.	CEILING REMARKS
100	VESTIBULE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		9'-0"		
101	RECEPTION	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		8'-10"		
102	RESTROOM VESTIBULE	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		9'-0"		
103	UNISEX RESTROOM	CT	CT	6"	F1	CT/GB/CMT BD	PREFIN/PAINT (PT-6)	CT/GB/CMT BD	PREFIN/PAINT (PT-6)	CT/GB/CMT BD	PREFIN/PAINT (PT-6)	CT/GB/CMT BD	PREFIN/PAINT (PT-6)	ACT-5		9'-0"		
104	OPEN OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
105	STORAGE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
106	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-10)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
107	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-10)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
108	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-10)	ACT-2		7'-10"		
109	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-10)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
110	BOARD ROOM	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB / ACT-2				
110a	EXISTING PASSAGEWAY	CPT	CRB	4"	F1	CMU / GB	PAINT (PT-1)	CMU / GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB / ACT-2				
110b	EXISTING BAPTISMAL FONT	WD	WD	4"	F5	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB / ACT-2				
110c	EXISTING STORAGE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	CMU / GB	PAINT (PT-1)	CMU / GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB				
111	EXISTING BREAK ROOM	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
112	CORRIDOR A	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
113	COPY ROOM	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
114	OPEN OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
115	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-10)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
116	WORKROOM	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
117	RESTROOM VESTIBULE	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
118	UNISEX RESTROOM	CT	CT	6"	F1	CT/GB/CMT BD	PREFIN/PAINT (PT-6)	CT/GB/CMT BD	PREFIN/PAINT (PT-6)	CT/GB/CMT BD	PREFIN/PAINT (PT-6)	CT/GB/CMT BD	PREFIN/PAINT (PT-6)	ACT-5		7'-10"		
119	OPEN OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
120	STORAGE	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
121	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-10)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
122	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-10)	ACT-2		7'-10"		
123	STORAGE	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
124	NOT USED	--	--	--	--	--	--	--	--	--	--	--	--	--		--		
125	CORRIDOR B	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
126	OPEN OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
127	STORAGE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
128	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-10)	ACT-2		7'-10"		
129	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-10)	ACT-2		7'-10"		
130	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-10)	ACT-2		7'-10"		
131	OPEN OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
132	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-10)	ACT-2		7'-10"		
133	COPY ROOM	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
134	CONFERENCE ROOM	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-10)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
135	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-10)	ACT-2		7'-10"		
136	OPEN OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
137	EXISTING MAINTENANCE	ETR	ETR	ETR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR		ETR		
138	EXISTING MECHANICAL	ETR	ETR	ETR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR		ETR		
139	MENS RESTROOM	CT	CT	6"	F1	CT/CMT BD/ETR	PREFIN/PAINT (PT-6)	CT/GB/CMT BD	PREFIN/PAINT (PT-6)	CT/CMT BD/ETR	PREFIN/PAINT (PT-6)	CT/CMT BD/ETR	PREFIN/PAINT (PT-6)	ACT-5		7'-10"		
140	JANITOR	CONC	CRB	4"	F2	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ACT-2		7'-10"		
141	WOMENS RESTROOM	CT	CT	6"	F1	CT/CMT BD/ETR	PREFIN/PAINT (PT-6)	CT/CMT BD/ETR	PREFIN/PAINT (PT-6)	CT/CMT BD/ETR	PREFIN/PAINT (PT-6)	CT/GB/CMT BD	PREFIN/PAINT (PT-6)	ACT-5		7'-10"		
142	CORRIDOR C	LVT/CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
143	EXISTING STORAGE	ETR	ETR	ETR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ACT-2		8'-6"		
144	EXISTING KITCHEN	ETR	ETR	ETR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR				
144a	EX. KITCHEN STORAGE	ETR	ETR	ETR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR		ETR		
145	RECEPTION	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
146	UNISEX RESTROOM	CT	CT	4"	F1	CT/GB	PREFIN/PAINT (PT-6)	CT/GB	PREFIN/PAINT (PT-6)	CT/GB	PREFIN/PAINT (PT-6)	CT/GB	PREFIN/PAINT (PT-6)	ACT-5		7'-10"		
147	OFFICE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-10)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		
148	SECURE VESTIBULE	CPT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		7'-10"		

GENERAL NOTES:

01. THIS IS A MASTER FINISH SCHEDULE. NOT ALL FINISHES MAY BE USED FOR THIS PROJECT. REFER TO ROOM FINISH SCHEDULE, FLOOR FINISH PLAN, AND INTERIOR ELEVATIONS FOR FURTHER INFORMATION.
02. COORDINATE THE TIMING OF WORK TO AVOID CONFLICTS WITH NORMAL SCHOOL OPERATIONS AND ACTIVITIES.
03. ALL OUTSIDE CORNERS OF INTERIOR CMU MASONRY TO BE BULLNOSE.
04. NEW FINISH FLOOR ELEVATION TO MATCH EXISTING EXACTLY.
05. ALL WALLS TO BE PAINTED IN AREA IDENTIFIED FOR PAINT UNLESS NOTED OTHERWISE.
06. ALL FINISHES ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
07. PROVIDE METAL TRANSITION BETWEEN DISSIMILAR FLOORING MATERIALS.

GENERAL FLOORING NOTES:

- GFN1. TRANSITION BETWEEN DISSIMILAR FLOORING TYPES / MATERIALS TO HAVE THE APPROPRIATE TRANSITION STRIP INSTALLED.
- GFN2. CONTRACTOR TO INSTALL CONTROL JOINTS IN PORCELAIN / CERAMIC TILE FLOORING AT SPACING PER TCA RECOMMENDATIONS AND AT ALL CONTROL JOINTS IN CONCRETE FLOOR JOINTS BELOW. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
- GFN3. ALIGN PORCELAIN / CERAMIC TILE FLOOR GROUT LINES WITH PORCELAIN / CERAMIC TILE WALL BASE GROUT LINES.
- GFN4. MOISTURE TEST THE FLOOR SLAB PRIOR TO APPLYING ALL FLOOR FINISHES. COORDINATE WITH PROJECT MANAGER AS REQUIRED.
- GFN5. CONTACT LOCAL MILLIKEN REPRESENTATIVE, JANNA JONES, AT (248) 804-5970 FOR FURTHER INFORMATION ABOUT THE CUSTOM CLASSROOM RUGS.

FLOORING NOTES:

- F1. PROPERLY PREPARE NEW / EXISTING CONCRETE SUBSTRATE TO ACCEPT NEW FLOORING MATERIAL PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- F2. PROPERLY PREPARE NEW CONCRETE SUBSTRATE FOR EXPOSED / SEALED CONCRETE FINISH PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- F3. PROVIDE BOUND RUG - REFER TO MATERIAL SCHEDULE.
- F4. PROVIDE 4" RUBBER BASE AT MILLWORK LOCATION ONLY.
- F5. WOOD PLATFORM AND TRIM, STAINED TO MATCH EXISTING. SUBMIT SAMPLE OF CUSTOM MATCHED STAIN TO ARCHITECT FOR FINAL APPROVAL.

GENERAL WALL NOTES:

- OWN1. ON ALL WALLS WITH TILE, INSTALL SEALANT (COLOR TO MATCH GROUT) IN ALL CORNERS IN LIEU OF GROUT.
- OWN2. INTERIOR PAINT SHALL BE SHERWIN WILLIAMS PROMAR 200 INTERIOR LATEX, TWO (2) COATS MINIMUM.
- OWN3. CONTACT ROBIN SPEER WITH VIRGINIA TILE AT (734) 765-6875 OR QUOTEDSKVRGINIATILE.COM FOR ANY QUESTIONS REGARDING AMERICAN OLEAN TILE.
- OWN4. ALL OUTSIDE CORNERS OF TILED WALLS TO HAVE TRIM PIECE SIMILAR TO SCHLUTER "RONDEC" SIZED APPROPRIATE FOR TILE THICKNESS (SATIN ANODIZED ALUMINUM FINISH). EXPOSED TOP EDGE TO BE FINISHED WITH COORDINATING TOP CAP.

WALL NOTES:

- W1. REFER TO WALL AND FLOOR TILE DETAILS (SHEET A8.52) FOR WALL TILE PATTERN AND COLORS.
- W2. PAINT TO MATCH EXISTING

CEILING NOTES:

- C1. COORDINATE CEILING HEIGHT WITH HARD TILE LAYOUT ON FULL HEIGHT TILE WALL IN RESTROOM.

LEGEND:

ACT-	ACOUSTICAL CEILING TILE	PL-	PLASTIC LAMINATE
CMT BD-	CEMENT BOARD	PT-	PAINT
CONC-	SEALED CONCRETE	SGT-	STRUCTURAL GLAZED TILE (WALL BASE)
CPT-	CARPET	SS-	SOLID SURFACE
CRB-	COVERED RUBBER BASE	SS1-	FLOORING TRANSITION
CT-	CERAMIC TILE / PORCELAIN TILE	TB-	TACK BOARD
DH-	DOOR HARDWARE	TP-	TOILET PARTITION
FRP-	FIBER REINFORCED POLYMER	WB-	WALL BASE
HM-	HOLLOW METAL	WD-	WOOD BASE
LVT-	LUXURY VINYL TILE	WF-	WASH FONTAIN
		W5-	WINDOW SHADE

ROOM FINISH SCHEDULE AREA B																	
ROOM NO.	ROOM DESIGNATION	FLOORING INFORMATION				WALL INFORMATION							CEILING INFORMATION				
		FLOOR MATERIAL	BASE MATERIAL	BASE HEIGHT	FLOORING REMARKS	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	WALL REMARKS	CEILING MATERIAL	CEILING FINISH	HEIGHT A.F.F.
149	EXISTING MULTI-PURPOSE	LVT	CRB	4"	F1	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	GB	PAINT (PT-1)	ACT-2		9'-2"	
150	CORRIDOR D	LVT/CPT	CT	6"	F1	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	ACT-2		9'-2"	
151	GIRLS RESTROOM	CT	CT	4"	F1	CT/CMU	PREFIN	CT/CMU	PREFIN/PAINT (PT-6)	CT/CMU	PREFIN/PAINT (PT-6)	CT/CMU	PREFIN/PAINT (PT-6)	ACT-5		9'-0"	C1
152	WORKROOM	LVT	CT	6"	F1	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	ACT-2		9'-2"	
153	BOYS RESTROOM	CT	CT	4"	F1	CT/CMU	PREFIN/PAINT (PT-6)	CT/CMU	PREFIN/PAINT (PT-6)	CT/CMU	PREFIN	CT/CMU	PREFIN/PAINT (PT-6)	ACT-5		9'-0"	C1
154	JANITOR	CONC	CT	6"	F2	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	ACT-2		9'-2"	
155	MECHANICAL ROOM	LVT	CT	6"	F1	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	ACT-2		9'-2"	
156	GSRP	LVT	CT / CRB	6' / 4"	F1, F3, F4	CMU	PAINT (PT-1)	CMU	PAINT (PT-9)	CMU	PAINT (PT-1)	CMU	PAINT (PT-9)	ACT-2		9'-2"	
156a	RESTROOM	CT	CT	4"	F1	CT/CMU	PREFIN	CT/CMU	PREFIN	CT/CMU	PREFIN	CT/CMU	PREFIN	ACT-5		9'-0"	C1
156b	CLOSET	LVT	CT	6"	F1	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	ACT-2		9'-0"	
157	GSRP	LVT	CT / CRB	6' / 4"	F1, F3, F4	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-9)	ACT-2		9'-2"	
157a	RESTROOM	CT	CT	4"	F1	CT/CMU	PREFIN	CT/CMU	PREFIN	CT/CMU	PREFIN	CT/CMU	PREFIN	ACT-5		9'-0"	C1
157b	CLOSET	LVT	CT	6"	F1	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	ACT-2		9'-0"	
158	GSRP	LVT	CT / CRB	6' / 4"	F1, F3, F4	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-9)	ACT-2		9'-2"	
158a	RESTROOM	CT	CT	4"	F1	CT/CMU	PREFIN	CT/CMU	PREFIN	CT/CMU	PREFIN	CT/CMU	PREFIN	ACT-5		9'-0"	C1
158b	CLOSET	LVT	CT	6"	F1	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-1)	CMU	PAINT (PT-9)	ACT-2		9'-0"	
159	GSRP	LVT	CT / CRB	6' / 4"	F1, F3, F4	CMU	PAINT (PT-1)	CMU	PAINT (PT-9)	CMU	PAINT (PT-1)	CMU	PAINT (PT-9)				

MATERIAL SCHEDULE						
TAG	MANUFACTURER	STYLE	COLOR	DESCRIPTION	INSTALLATION / LOCATION NOTES	
FLOORING						
CPT-6	MILLIKEN - OBEX CUTX	FIZZ	FZXS-27 GREY	ENTRY WALK OFF CARPET	QUARTER TURN INSTALLATION	
CPT-7	MILLIKEN	CUSTOM		BROADLOOM CARPET- BOUND	ONE PER GRSP CLASSROOM (GRSP WING)	
CPT-8	MILLIKEN - STEREOVISION	LIGHT WAVE	LWV79 AUGMENT	CARPET TILE	ASHLAR INSTALLATION (GRSP WING)	
CPT-9	MILLIKEN - STEREOVISION	LIGHT WAVE	LWV72 -118 ELECTROPUNK	CARPET TILE	ASHLAR INSTALLATION (ADMINISTRATION WING)	
LVT-1	MILLIKEN - LUMENOLOGY SERIES	LIGHT WASH	LLW257 LUSTERING	25 CM X 100 CM PLANK	FIELD TILE - ASHLAR INSTALLATION	
LVT-8	MILLIKEN - LUMENOLOGY SERIES	LIGHT WASH	LLW265-195 OPALESCENT	25 CM X 100 CM PLANK	ACCENT TILE - ASHLAR INSTALLATION (GRSP WING)	
LVT-9	MILLIKEN - LUMENOLOGY SERIES	LIGHT WASH	LLW191 SPARK	25 CM X 100 CM PLANK	ACCENT TILE - ASHLAR INSTALLATION (GRSP WING)	
LVT-10	MILLIKEN - LUMENOLOGY SERIES	REFLECTIVE	LRF257-191 PARALLEL	25 CM X 100 CM PLANK	ACCENT TILE - ASHLAR INSTALLATION (GRSP WING)	
LVT-11	MILLIKEN - CHANGE AGENT	RELIC	REL 152 ANTIQUITY	25 CM X 100 CM PLANK	ASHLAR OR BASKET WEAVE - REFER TO DRAWINGS (ADMIN. WING)	
WALL BASE						
CRB-3	JOHNSONITE		MINK WG	4" COVE BASE	(ADMINISTRATION WING)	
CT-16	CROSSVILLE	RETRO ACTIVE	LEADEN UPS	6" H	(GRSP WING)	
FLOOR TRANSITIONS						
SST-1	CERAMIC TOOLS COMPANY	CTC 316 REDUCER	ANODIZED ALUMINUM (CLEAR)		LVT TO CONCRETE	
SST-3	SCHLUTER	RENO-TK AETK-60	SATIN ANODIZED ALUMINUM		CERAMIC TILE TO LVT	
SST-4	CERAMIC TOOLS COMPANY	CTC ETR 38 EA	ETCHED ALUMINUM		WALK OFF CARPET TO LVT	
SST-6	TARKETT	RCN-A	MINK WG		STAIR NOSING	
SST-7	SCHLUTER	RENO-V #AEVT 80 B20	SATIN ANODIZED ALUMINUM		OFFICE CARPET TO LVT	
SST-8	MM SYSTEMS	SERIES FHFXR-EH	SATIN ANODIZED ALUMINUM		FLOOR EXPANSION JOINT BETWEEN EXISTING & NEW BUILDINGS	
SST-9	KUBERIT	KT-C-045-A1-C	ANODIZED ALUMINUM SILVER		LVT TO LVT	
PAINTS						
PT-1	SHERWIN WILLIAMS	EGGSHELL	SW7008 ALABASTER		DISTRICT STANDARD WALL PAINT	
PT-6	SHERWIN WILLIAMS	SEMI-GLOSS	SW7669 SUMMIT GRAY		RESTROOM WALL PAINT	
PT-9	SHERWIN WILLIAMS	EGGSHELL	TBD		ACCENT PAINT (GRSP WING)	
PT-10	SHERWIN WILLIAMS	EGGSHELL	SW 9146 FADED FLAXFLOWER		ACCENT PAINT (ADMINISTRATION WING)	
PT-11	SHERWIN WILLIAMS	SEMI-GLOSS	SW7505 MANDR HOUSE		DOOR FRAME PAINT	
PT-12	SHERWIN WILLIAMS	FLAT	SW7757 HIGH REFLECTIVE WHITE		CEILING PAINT (INTERIOR) / EXTERIOR SOFFIT PAINT	
CEILING TILE						
ACT-2	ARMSTRONG	1774 - DUNE	WHITE	2' X 2' IN 15/16" METAL GRID (HEAVY DUTY)	CLASSROOMS/OFFICE/CORRIDORS	
ACT-5	ARMSTRONG	473 - KITCHEN ZONE	WHITE	2' X 2' IN 15/16" METAL GRID (HEAVY DUTY)	(RESTROOMS)	

MATERIAL SCHEDULE						
TAG	MANUFACTURER	STYLE	COLOR	DESCRIPTION	INSTALLATION / LOCATION NOTES	
FLOORING						
CT-1	AMERICAN OLEAN	COLOR STORY	ICE WHITE 0025	4" X 16"	FIELD TILE - WALLS (GRSP WING)	
CT-4	AMERICAN OLEAN	COLOR STORY	BALANCE 0014	4" X 16"	ACCENT TILE - WALLS (GRSP WING)	
CT-5	AMERICAN OLEAN	COLOR STORY	STORM GRAY 0040	4" X 16"	ACCENT TILE - WALLS (GRSP WING)	
CT-7	AMERICAN OLEAN	COLOR STORY	PASSION 0019	4" X 16"	ACCENT TILE - WALLS (GRSP WING)	
CT-8	AMERICAN OLEAN	COLOR STORY	SCARLET 0010	4" X 16"	ACCENT TILE - WALLS (GRSP WING)	
CT-12	CAESER CERAMICS USA	STYLE	PURE	12" X 24", 3" X 24" BULLNOSE	FIELD TILE - WALLS (ADMINISTRATION WING)	
CT-13	MARAZZI	ILLUSIONIST	IL51 MYSTIFYING	11" X 24"	ACCENT TILE - WALLS (ADMINISTRATION WING)	
CT-14	AMERICAN OLEAN	HISTORIC LIMESTONE	HS13 LEGACY		FLOOR TILE (GRSP WING)	
CT-15	MARAZZI	ILLUSIONIST	IL49 MYSTERIOUS	3" X 3" MOSAIC TILE	FLOOR TILE (ADMINISTRATION WING)	
WB-2	AMERICAN OLEAN	HISTORIC LIMESTONE	HS13 LEGACY	2" X 2" MOSAIC TILE	WRAP 2 ROWS UP WALL FOR BASE (GRSP WING)	
WB-3	MARAZZI	ILLUSIONIST	IL49 MYSTERIOUS	3" X 3" MOSAIC TILE	WRAP 2 ROWS UP WALL FOR BASE (ADMINISTRATION WING)	
GROUT	TEC		931 STANDARD WHITE		WALL TILE GROUT (GRSP WING)	
GROUT	TEC		908 DOVE GRAY		WALL TILE GROUT (ADMINISTRATION WING)	
GROUT	TEC		929 CHARCOAL GRAY		FLOOR TILE / WALL BASE GROUT	
WF-1	EVERO QUARTZ	GEO SERIES	GLACIER BAY		RESTROOM WASHFOUNTAIN	
TP-1	SCRANTON PRODUCTS	TRADITIONAL COLOR COLLECTION	SHALE	ORANGE PEEL TEXTURE	TOILET PARTITIONS	
PL-5	NEVAMAR		SIENNA ESSENCE		COUNTERTOP (GRSP WING)	
PL-6	NEVAMAR		YUNNAN		CASEWORK LAMINATE (GRSP WING)	
PL-7	FORMICA		912-58 STORM		CASEWORK LAMINATE REVEAL (GRSP WING)	
PL-8	NEVAMAR		NAVY MATRIX II		COUNTERTOP (ADMINISTRATION WING)	
PL-9	WILSONART		BLACKBIRD		CASEWORK LAMINATE (ADMINISTRATION WING)	
PL-10	WILSONART		BLACK		CASEWORK LAMINATE REVEAL (ADMINISTRATION WING)	
WD-4	VT INDUSTRIES	WHITE BIRCH	CHOCOLATE, CH-18			
FRP-4	SPECIAL - LITE (OR APPROVED EQUAL)	--	DESSERT SAND			
DH-1	SCHLAGE		SATIN CHROMIUM - 426		DOOR HARDWARE	
TB-3	CLARIDGE	VIEWPOINT	KV230 OYSTER		TACKBOARD FABRIC	
WS-2	DRAPER	SHEER WEAVE	PW4550 - P10 GRANITE	5% OPEN	EXTERIOR WINDOWS (ADMIN WING)	
WS-5	DRAPER	SUNBLOC SERIES	SBP940 GRAY	BLACKOUT	DOOR / SIDELITES & EXT. WINDOWS (GRSP WING)	

GENERAL NOTES:

- G1. THIS IS A MASTER FINISH SCHEDULE. NOT ALL FINISHES MAY BE USED FOR THIS PROJECT. REFER TO ROOM FINISH SCHEDULE, FLOOR FINISH PLAN, AND INTERIOR ELEVATIONS FOR FURTHER INFORMATION.
- G2. COORDINATE THE TIMING OF WORK TO AVOID CONFLICTS WITH NORMAL SCHOOL OPERATIONS AND ACTIVITIES.
- G3. ALL OUTSIDE CORNERS OF INTERIOR CMU MASONRY TO BE BULLNOSE.
- G4. NEW FINISH FLOOR ELEVATION TO MATCH EXISTING EXACTLY.
- G5. ALL WALLS TO BE PAINTED IN AREA IDENTIFIED FOR PAINT UNLESS NOTED OTHERWISE.
- G6. ALL FINISHES ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- G7. PROVIDE METAL TRANSITION BETWEEN DISSIMILAR FLOORING MATERIALS.

GENERAL FLOORING NOTES:

- GFN1. TRANSITION BETWEEN DISSIMILAR FLOORING TYPES / MATERIALS TO HAVE THE APPROPRIATE TRANSITION STRIP INSTALLED.
- GFN2. CONTRACTOR TO INSTALL CONTROL JOINTS IN PORCELAIN / CERAMIC TILE FLOORING AT SPACING PER TCA RECOMMENDATIONS AND AT ALL CONTROL JOINTS IN CONCRETE FLOOR JOINTS BELOW. CONTRACTOR TO FIELD FLOORING TO EXISTING CONDITIONS.
- GFN3. ALIGN PORCELAIN / CERAMIC TILE FLOOR GROUT LINES WITH PORCELAIN / CERAMIC TILE WALL BASE GROUT LINES.
- GFN4. MOISTURE TEST THE FLOOR SLAB PRIOR TO APPLYING ALL FLOOR FINISHES. COORDINATE WITH PROJECT MANAGER AS REQUIRED.
- GFN5. CONTACT LOCAL MILLIKEN REPRESENTATIVE, JANNA JONES, AT (248) 804-5970 FOR FURTHER INFORMATION ABOUT THE CUSTOM CLASSROOM RUGS.

FLOORING NOTES:

- F1. PROPERLY PREPARE NEW / EXISTING CONCRETE SUBSTRATE TO ACCEPT NEW FLOORING MATERIAL PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- F2. PROPERLY PREPARE NEW CONCRETE SUBSTRATE FOR EXPOSED / SEALED CONCRETE FINISH PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- F3. PROVIDE BOUND RUG - REFER TO MATERIAL SCHEDULE.
- F4. PROVIDE 4" RUBBER BASE AT MILLWORK LOCATION ONLY.
- F5. WOOD PLATFORM AND TRIM, STAINED TO MATCH EXISTING. SUBMIT SAMPLE OF CUSTOM MATCHED STAIN TO ARCHITECT FOR FINAL APPROVAL.

GENERAL WALL NOTES:

- OWN1. ON ALL WALLS WITH TILE, INSTALL SEALANT (COLOR TO MATCH GROUT) IN ALL CORNERS IN LIEU OF GROUT.
- OWN2. INTERIOR PAINT SHALL BE SHERWIN WILLIAMS PROMAR 200 INTERIOR LATEX, TWO (2) COATS MINIMUM.
- OWN3. CONTACT ROBIN SPEER WITH VIRGINIA TILE AT (734) 765-6875 OR QUOTEDSKIRVINGINATILE.COM FOR ANY QUESTIONS REGARDING AMERICAN OLEAN TILE.
- OWN4. ALL OUTSIDE CORNERS OF TILED WALLS TO HAVE TRIM PIECE SIMILAR TO SCHLUTER "RONDEC" SIZED APPROPRIATE FOR TILE THICKNESS (SATIN ANODIZED ALUMINUM FINISH). EXPOSED TOP EDGE TO BE FINISHED WITH COORDINATING TOP CAP.

WALL NOTES:

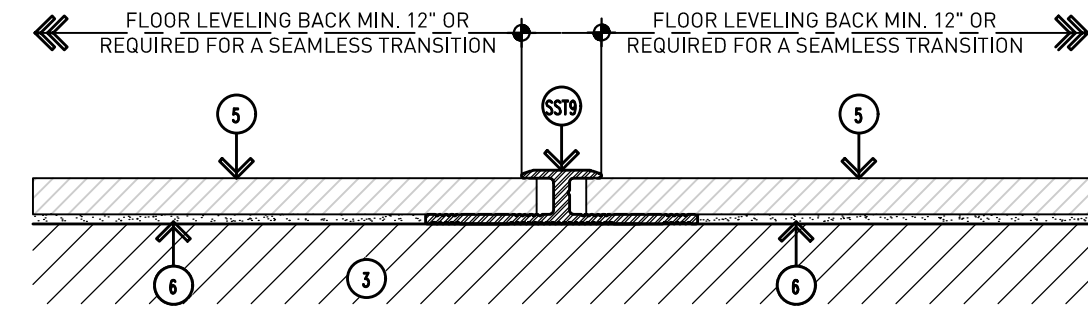
- W1. REFER TO WALL AND FLOOR TILE DETAILS (SHEET A8.52) FOR WALL TILE PATTERN AND COLORS.
- W2. PAINT TO MATCH EXISTING.

CEILING NOTES:

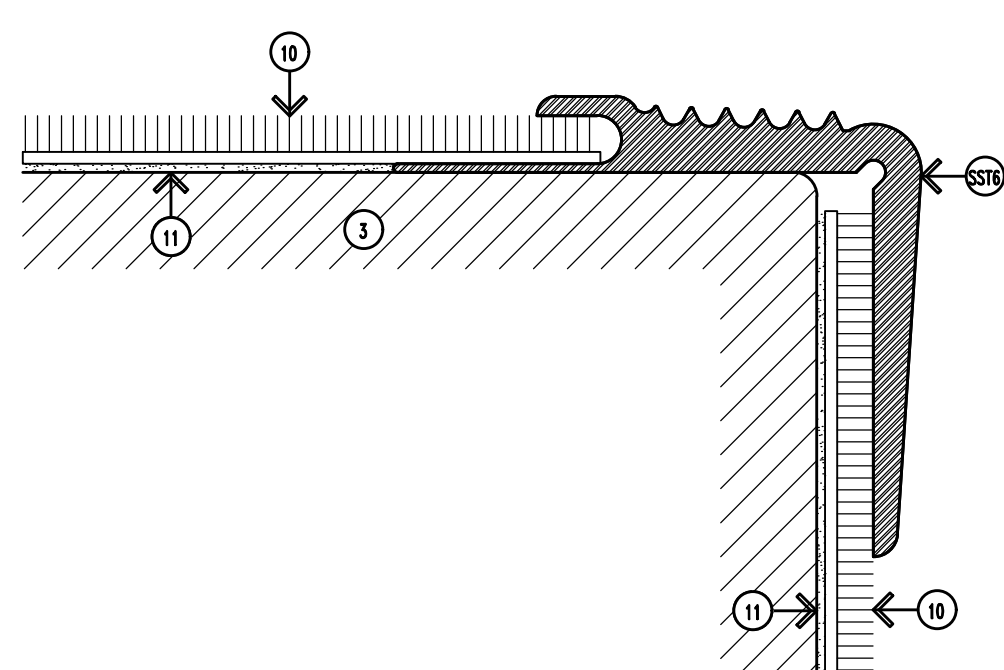
- C1. COORDINATE CEILING HEIGHT WITH HARD TILE LAYOUT ON FULL HEIGHT TILE WALL IN RESTROOM.

DRAWING NOTES:

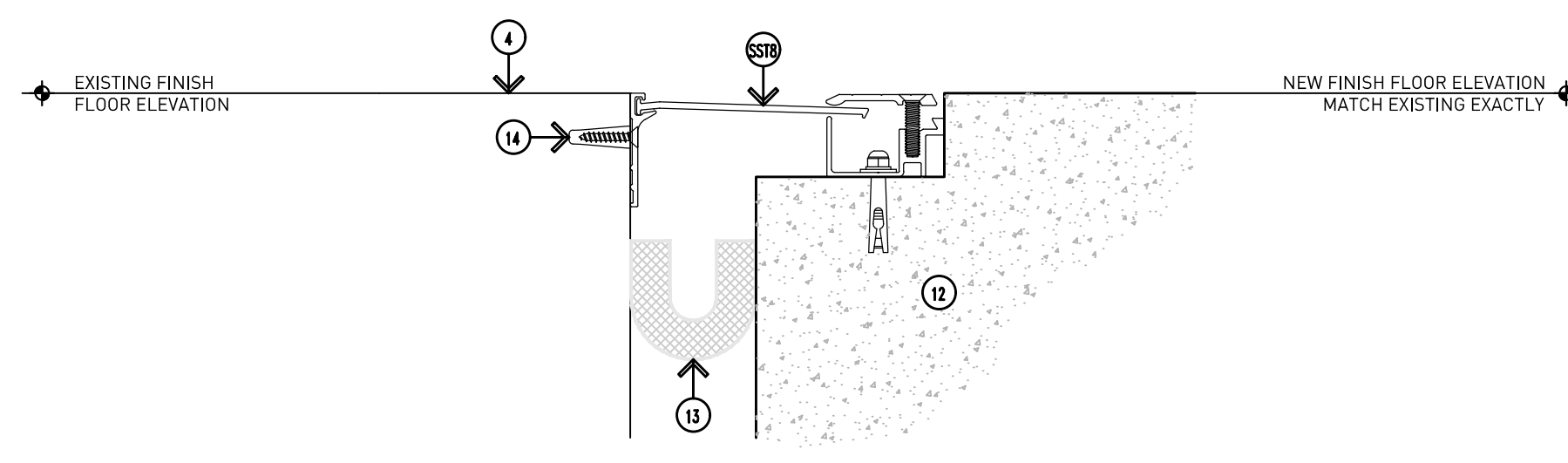
- 1. PORCELAIN / CERAMIC TILE FLOORING
- 2. TILE MORTAR / ADHESIVE.
- 3. NEW CONCRETE FLOOR SLAB
- 4. EXISTING CONCRETE FLOOR SLAB--E.C.U. (C.F.V.)
- 5. LVT FLOORING--REFER TO SCHEDULE FOR FURTHER INFORMATION.
- 6. LVT FLOORING ADHESIVE RECOMMENDED BY FLOORING MANUFACTURER.
- 7. WALK OFF CARPET--REFER TO SCHEDULE FOR FURTHER INFORMATION.
- 8. WALK OFF CARPET FLOORING ADHESIVE RECOMMENDED BY FLOORING MANUFACTURER.
- 9. ALIGN TOP OF FLOORING.
- 10. OFFICE CARPET FLOORING--REFER TO SCHEDULE FOR FURTHER INFORMATION.
- 11. OFFICE CARPET FLOORING ADHESIVE RECOMMENDED BY FLOORING MANUFACTURER.
- 12. CONCRETE FLOOR SLAB OVER 15MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER REQUIREMENTS.
- 13. 2-HOUR FIRE BARRIER
- 14. #10 X 1" FASTENER AND SLEEVE @ 24" O.C.



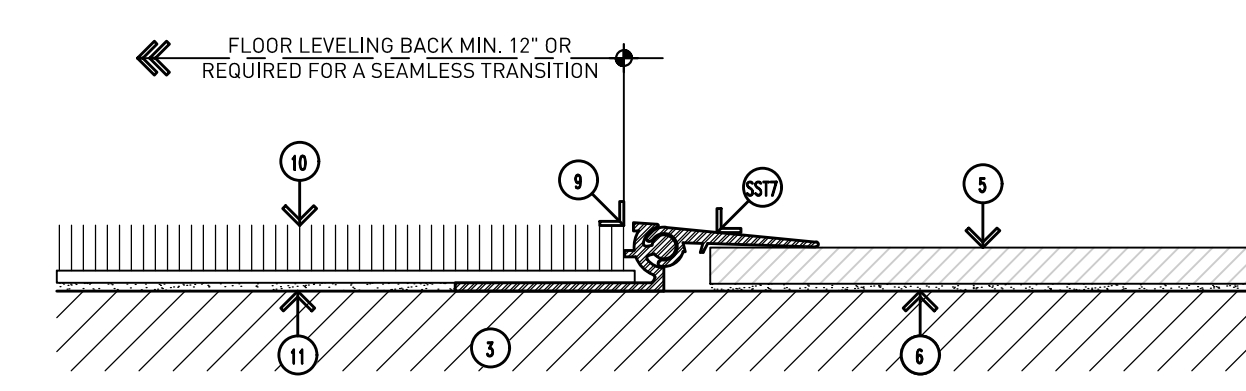
7 LVT to LVT (SST-9)
Scale: Full Scale



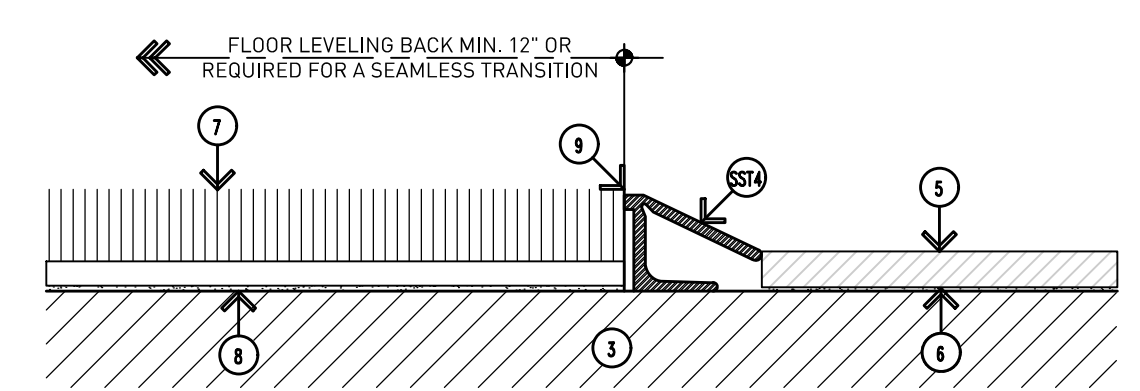
5 Stair Nosing (SST-6)
Scale: Full Scale



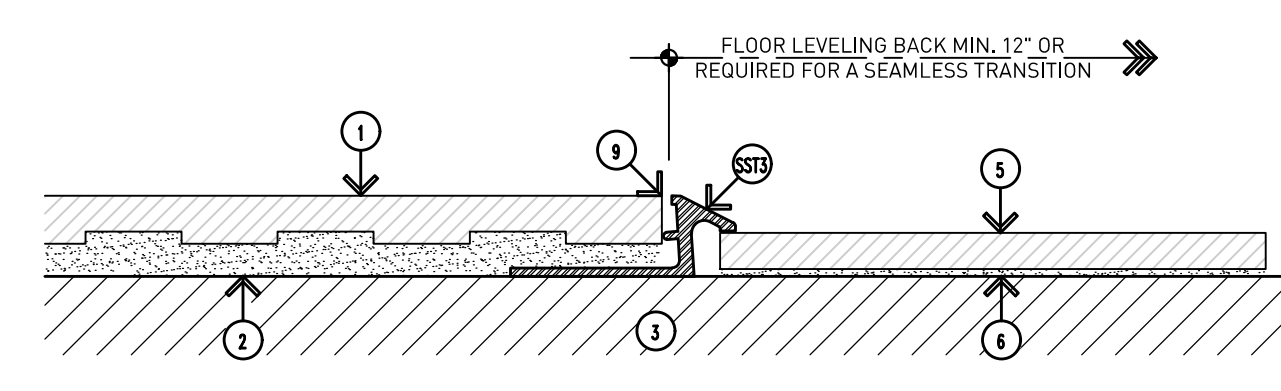
6 Floor Expansion Joint Detail (SST-8)
Scale: 6" = 1'-0"



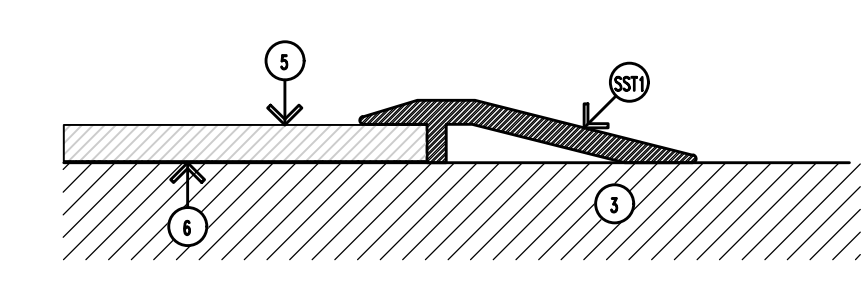
4 Office Carpet to LVT (SST-7)
Scale: Full Scale



3 Walk Off Carpet to LVT (SST-4)
Scale: Full Scale



2 Ceramic Tile to LVT (SST-3)
Scale: Full Scale



1 LVT to Concrete (SST-1)
Scale: Full Scale



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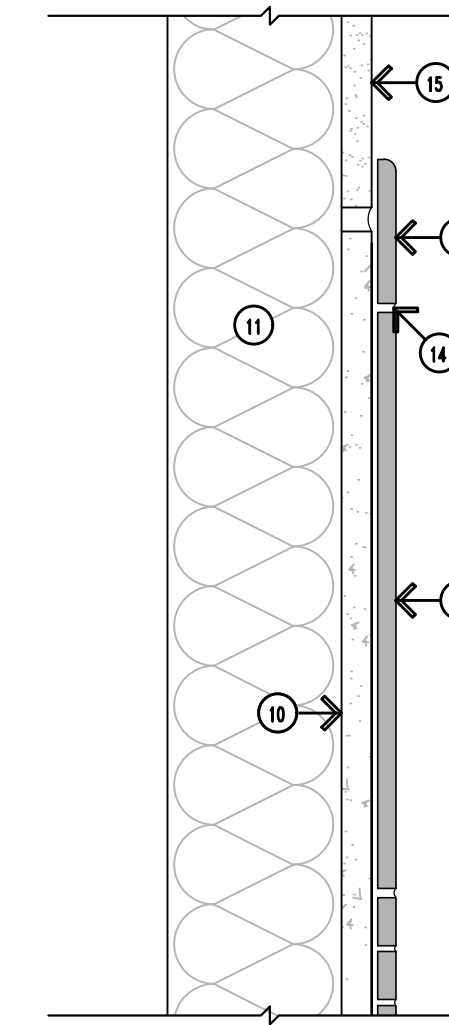
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

GENERAL NOTES:

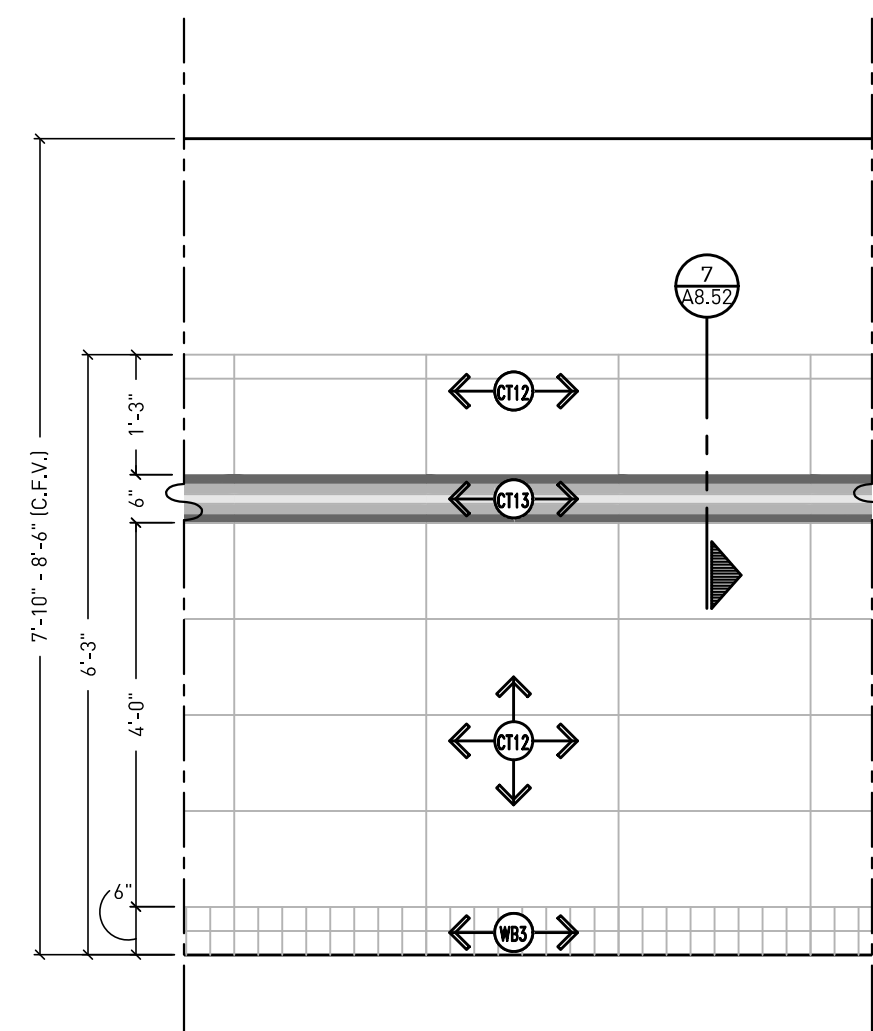
G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

DRAWING NOTES:

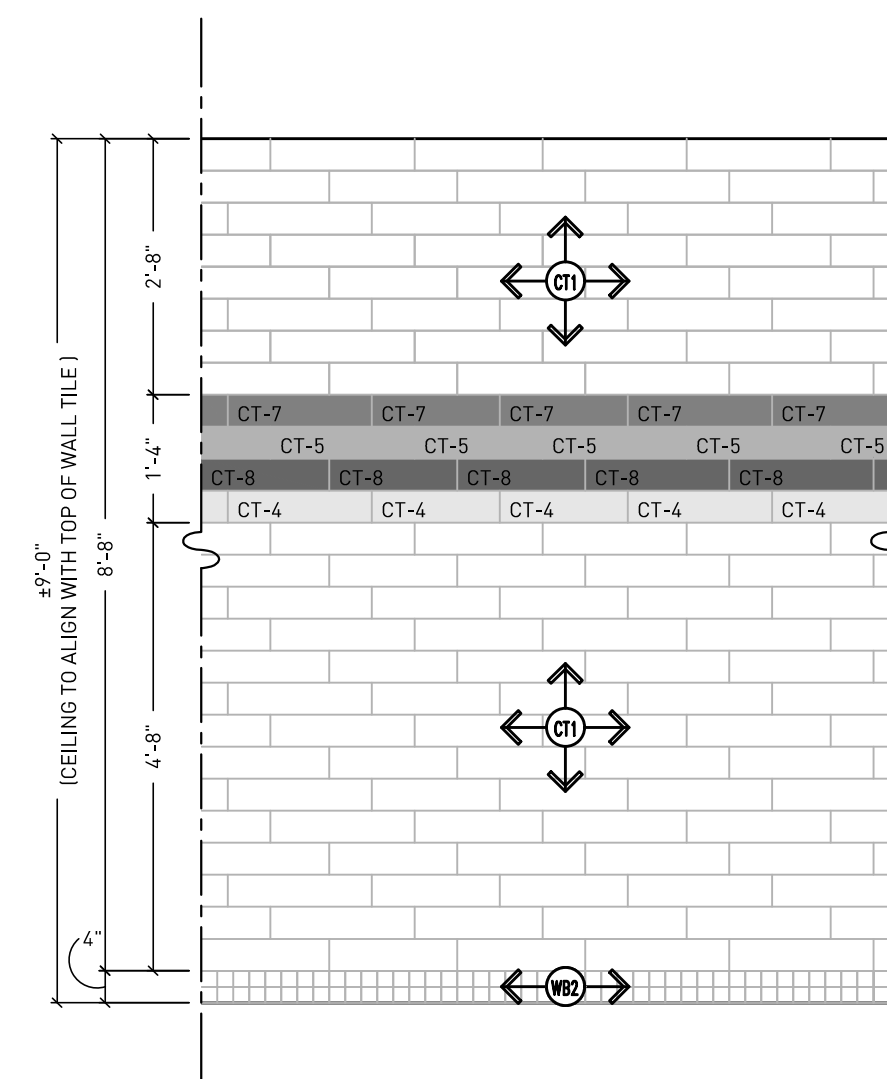
1. CONTROL JOINT SEALANT JOINT IN PORCELAIN / CERAMIC TILE FLOORING LOCATED AT THE NEAREST TILE JOINT TO THE EXISTING CONTROL JOINT IN THE CONCRETE SLAB BELOW. CONTRACTOR TO INSTALL CONTROL JOINTS (SEALANT JOINTS) AT ALL OTHER CONTROL JOINTS TO BE FOUND.
2. PORCELAIN / CERAMIC TILE FLOORING
3. EXISTING NEW CONTROL JOINT LOCATED IN CONCRETE FLOOR SLAB (OR EXISTING CRACK IN SLAB)
4. TILE MORTAR / ADHESIVE.
5. CONCRETE FLOOR SLAB.
6. CRACK ISOLATION MEMBRANE TO BE INSTALLED THE FULL WIDTH OF TILES AFFECTED BY THE CONTROL JOINT BELOW, PER TCA REQUIREMENTS.
7. CONTRACTOR TO INSTALL FLEXIBLE SEALANT WITH COMPRESSIBLE BACK-UP AS REQUIRED IN ALL JOINTS ABUTTING A PERIMETER WALL. CONTRACTOR TO ASSURE JOINT IS CLEAN AND FREE OF ALL DEBRIS.
8. BOND COAT.
9. WALL SURFACE
10. CEMENTITIOUS BACKER UNIT.
11. WALL CONDITION VARIES - REFER TO WALL TAG NOTES ON SHEETS A2.11 AND A2.12.
12. CERAMIC WALL TILE - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
13. CERAMIC WALL TILE TRIM PIECE - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
14. GROUT - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
15. GYPSUM BOARD/ PLASTER, CONDITION VARIES - REFER TO WALL TAG NOTES ON SHEETS A2.11 AND A2.12.



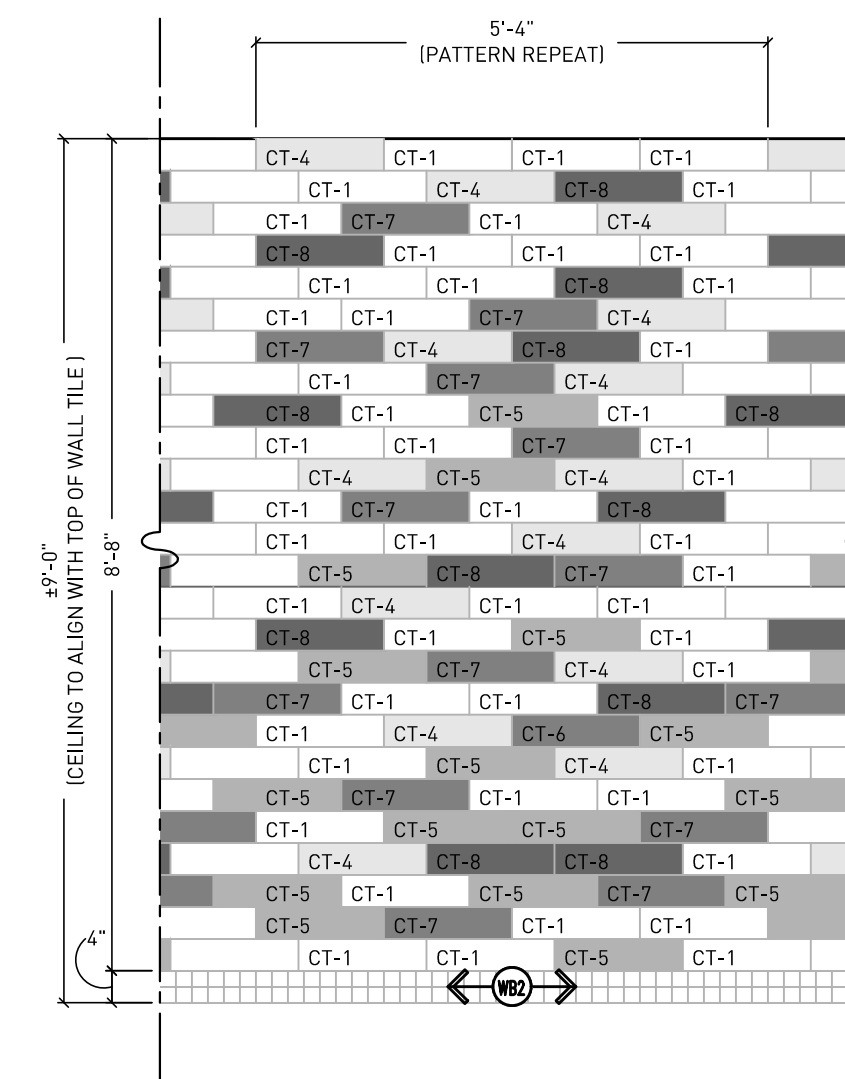
7 Wall Tile Top Trim Detail
Scale: 3"=1'-0" PER TCNA W244



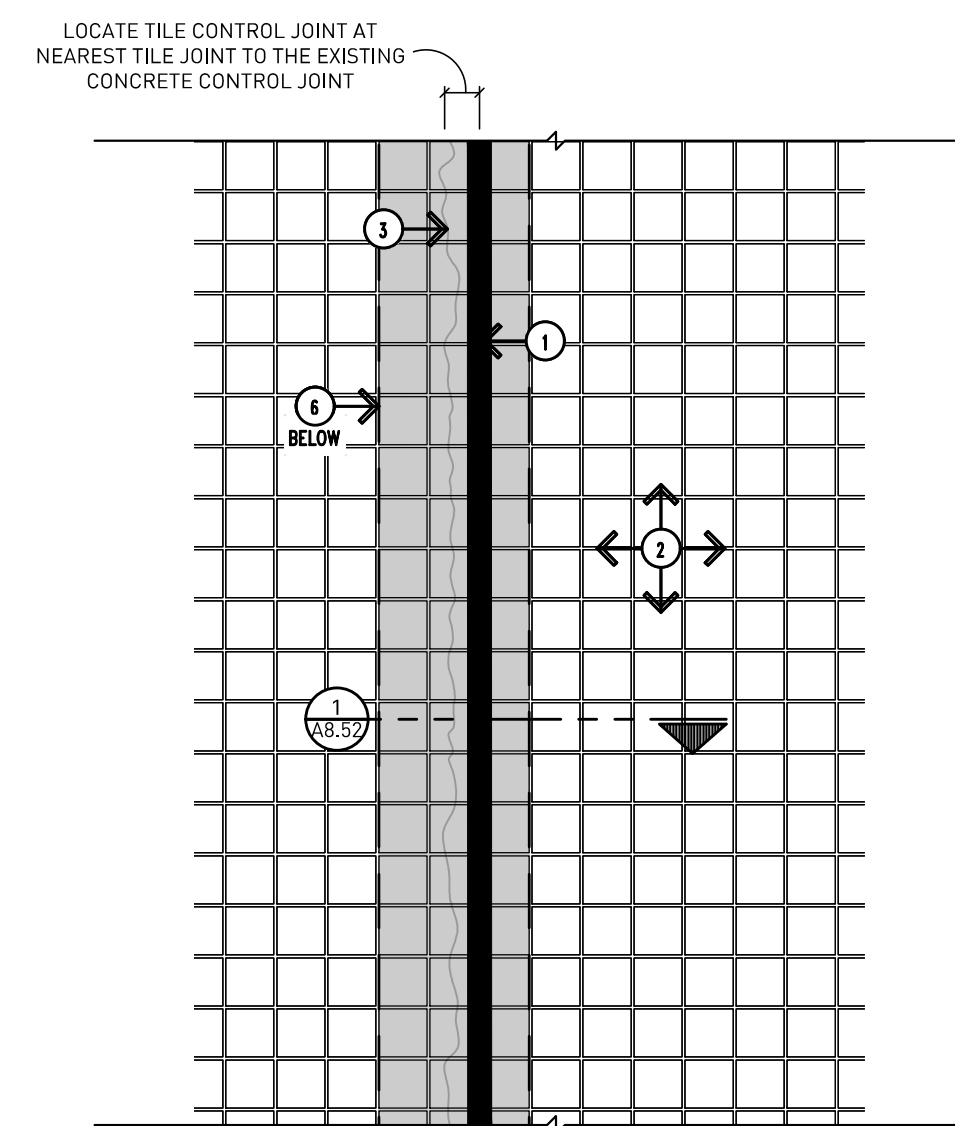
6 Enlarged Administration Single Occupant Restroom Wall Tile Pattern
Scale: 1/2"=1'-0"
PATTERN APPLIES TO RESTROOMS 103 AND 118
REFER TO ELEVATIONS: 9/A5.01 - 12/A5.01, AND 14/A5.01 - 17/A5.01



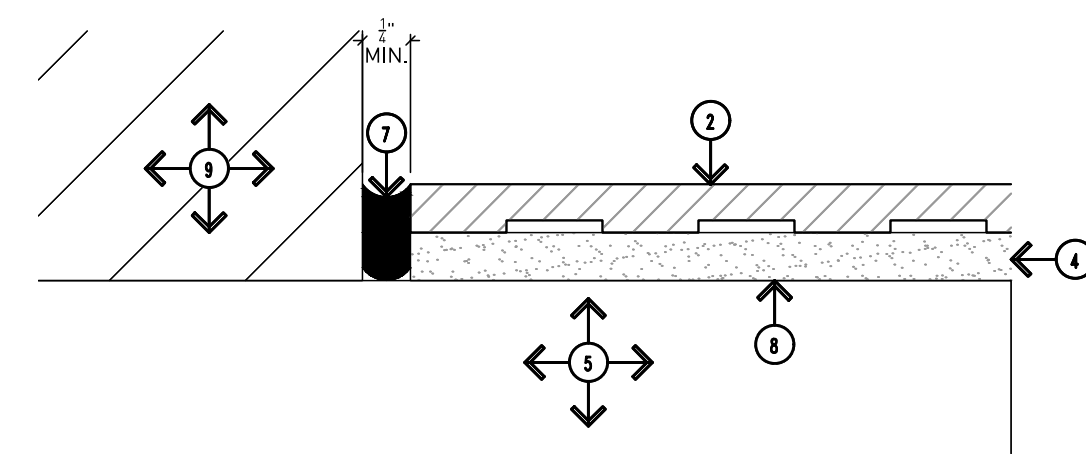
5 Enlarged GSRP Single Occupant Restroom Wall Tile Pattern
Scale: 1/2"=1'-0"
PATTERN APPLIES TO RESTROOMS 144, 154a, 157a, 159a, 159b, 160a, 161a, 162a,
REFER TO ELEVATIONS: 9/A5.00, 12/A5.00, 14/A5.00, 15/A5.00, 18/A5.00, & 19/A5.00



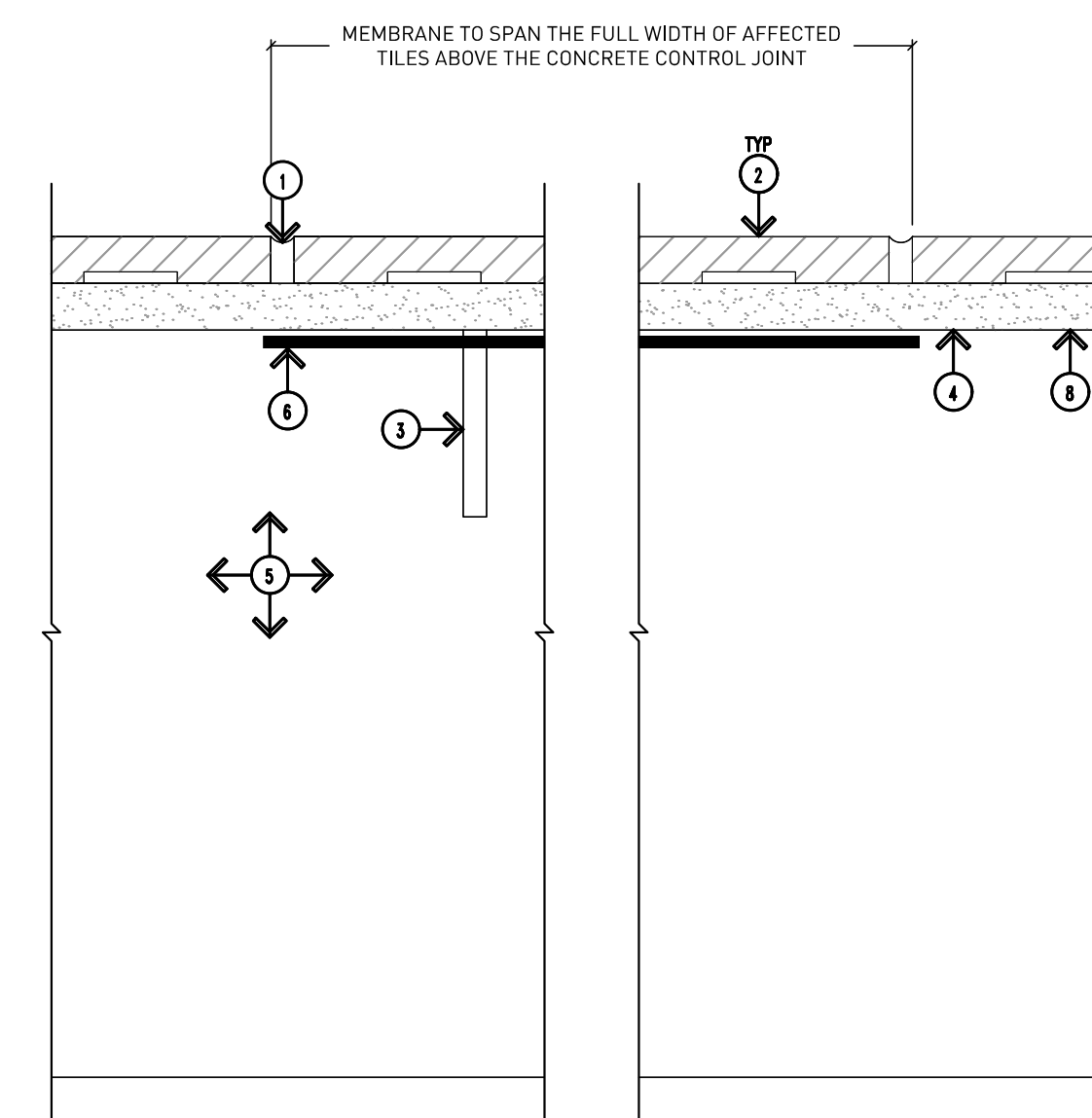
4 Enlarged GSRP Gang Restroom Wall Tile Pattern
Scale: 1/2"=1'-0"
REFER TO ELEVATIONS: 3/A5.00 AND 5/A5.00



3 Ceramic Tile Control Joint
Scale: 1-1/2"=1'-0"
NOTE 1: LOCATE TILE CONTROL JOINT AT THE NEAREST TILE JOINT TO EXISTING C/J IN THE CONCRETE SLAB BELOW.
NOTE 2: CRACK ISOLATION MEMBRANE TO BE INSTALLED UNDER FULL WIDTH OF AFFECTED TILES, AND PER TCA REQUIREMENTS.



2 Ceramic Tile at Perimeter Wall
Scale: Full Scale



1 Ceramic Tile Control Joint Detail
Scale: Full Scale
DRAWING EXPLODED FOR DRAWING CLARITY



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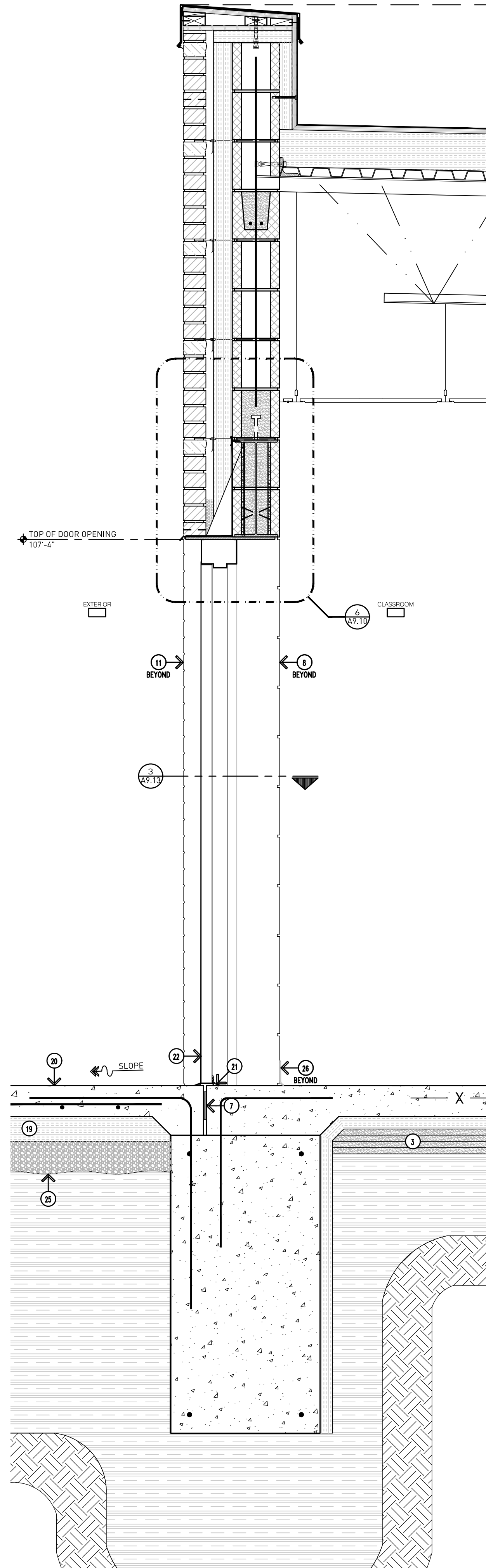
Wall and Floor Tile Details



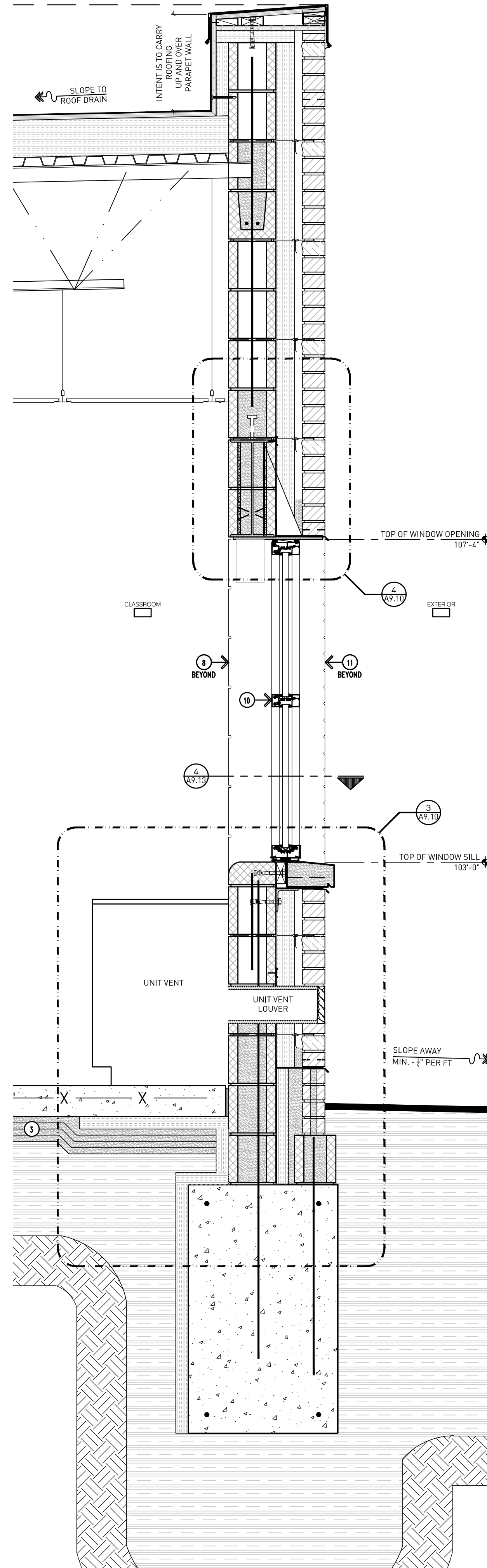
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

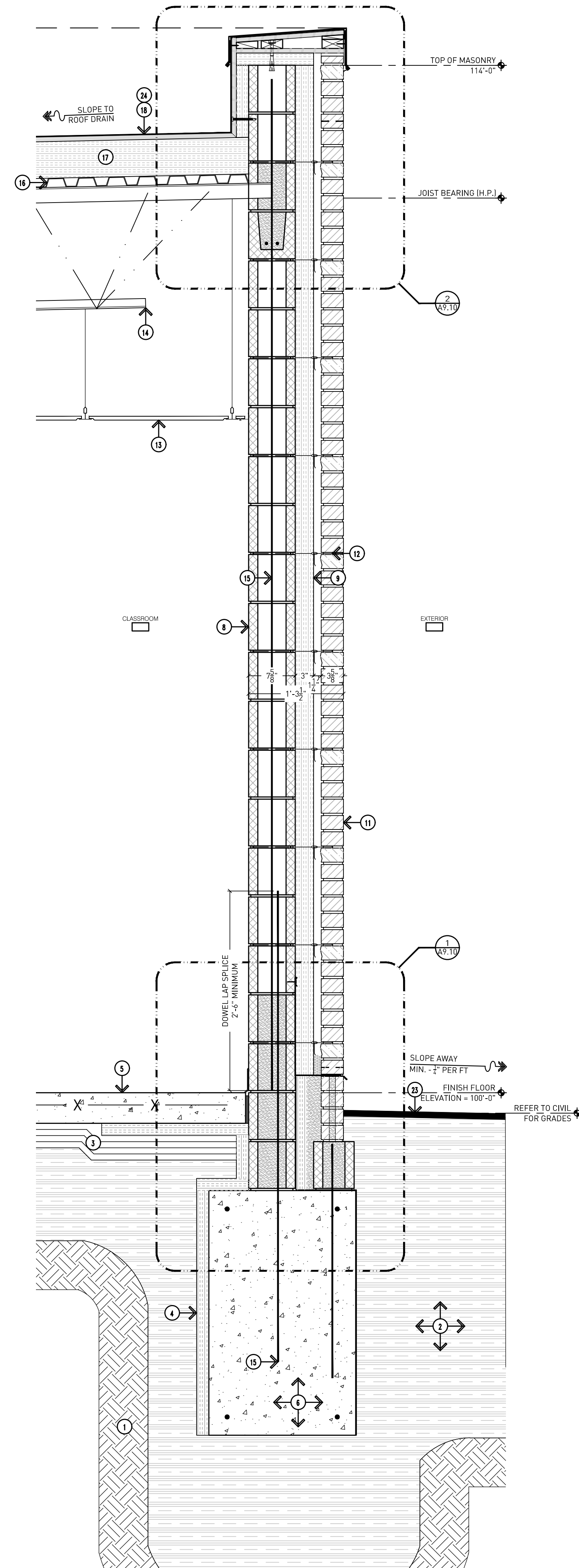
A8.52



3 Ext. Wall Section C - North/South [Area B]
Scale: 1"=1'-0"
REFER TO 1/A9.00 FOR TYPICAL NOTES



2 Ext. Wall Section B - North/South [Area B]
Scale: 1"=1'-0"
REFER TO 1/A9.00 FOR TYPICAL NOTES



1 Ext. Wall Section A - North/South [Area B]
Scale: 1"=1'-0"

- GENERAL NOTES:**
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
 - G2. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
 - G3. PROVIDE NON-COM WOOD BLOCKING BEHIND ALL MISCELLANEOUS TRIM LOCATIONS AND ALL OTHER ATTACHMENT LOCATIONS WHETHER PARTICULARLY SHOWN ON THE DOCUMENTS OR NOT.
 - G4. ALL PREFINISHED METAL COPING TO BE COMPLETE WITH CONCEALED CLIP ANCHORS ON BOTH SIDES (NO VISIBLE FASTENERS).
 - G5. CARRY ROOFING UP AND OVER PARAPET CAP -- TYPICAL.
 - G6. PROVIDE CONTINUOUS SPRAY-APPLIED VAPOR BARRIER COVERING FACE OF WALL AND UP AND OVER PARAPET WALL. TERMINATE WITH ROOFING PER MANUFACTURER'S REQUIREMENTS. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE ENTIRE BUILDING ENVELOPE AND INCLUDE ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
 - G7. ALL FLEXIBLE MEMBRANE FLASHING TO BE SECURED TO SUBSTRATE WITH TERMINATION BAR AND SEALANT -- INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - G8. FILL BRICK CORES AND COLLAR JOINTS SOLID BELOW GRADE AND BELOW ALL FLASHINGS.
 - G9. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
 - G10. PROVIDE MASONRY WEEP VENTS @ 32" O.C. HORIZONTALLY AT TOP AND BOTTOM OF WALL COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
 - 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.

- 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. 2" RIGID INSULATION BOARD MINIMUM 24" INSIDE BUILDING, AND VERTICALLY BEHIND FOUNDATION.
 5. CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS - REFER TO STRUCTURAL DRAWINGS.
 6. CONCRETE FOUNDATION -- REFER TO STRUCTURAL DRAWINGS.
 7. 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT.
 8. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
 9. 3" SPRAY FOAM BUILDING INSULATION SYSTEM WITH INTEGRAL CONTINUOUS VAPOR BARRIER.
 10. STOREFRONT FRAMING AND GLAZING -- REFER TO DOOR SCHEDULE AND DETAILS.
 11. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
 12. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
 13. ACUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
 14. STRUCTURAL STEEL ROOF FRAMING -- REFER TO STRUCTURAL DRAWINGS.
 15. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
 16. 1 1/2" GALVANIZED METAL ROOF DECK.
 17. RIGID ROOF INSULATION BOARD (MINIMUM 4" THICKNESS -- TWO LAYERS AND COVERBOARD).
 18. FULLY ADHERED SINGLE-PLY EPDM ROOFING -- CARRY UP AND OVER FACE OF PARAPET WALL.
 19. INSULATION FORM - REFER TO STRUCTURAL DRAWINGS.
 20. 5" CONCRETE FROST SLAB -- SLOPE AWAY FROM BUILDING MINIMUM 1/2" PER FOOT.
 21. ALUMINUM THRESHOLD.
 22. DOOR - REFER TO DOOR SCHEDULE.
 23. LINE OF GRADE.
 24. ROOFING COVERBOARD.
 25. DRAINAGE MATERIAL (AGGREGATE) - REFER TO STRUCTURAL DRAWINGS.
 26. WALL BASE--REFER TO FINISH SCHEDULE.

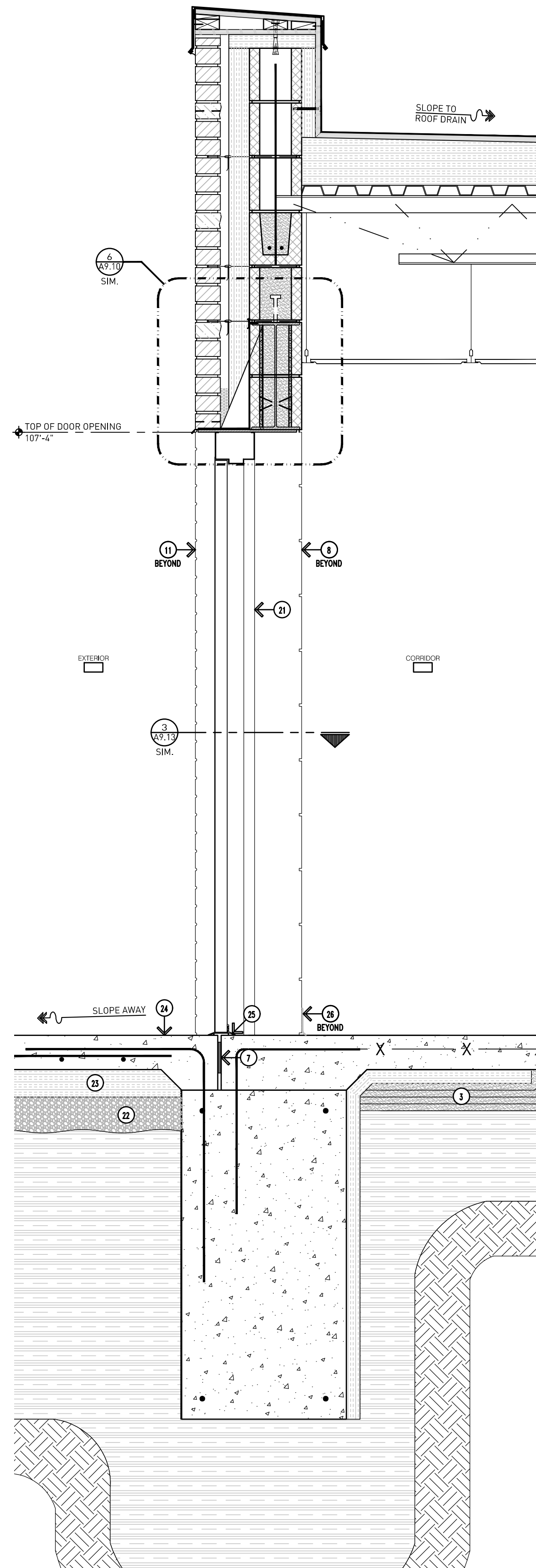


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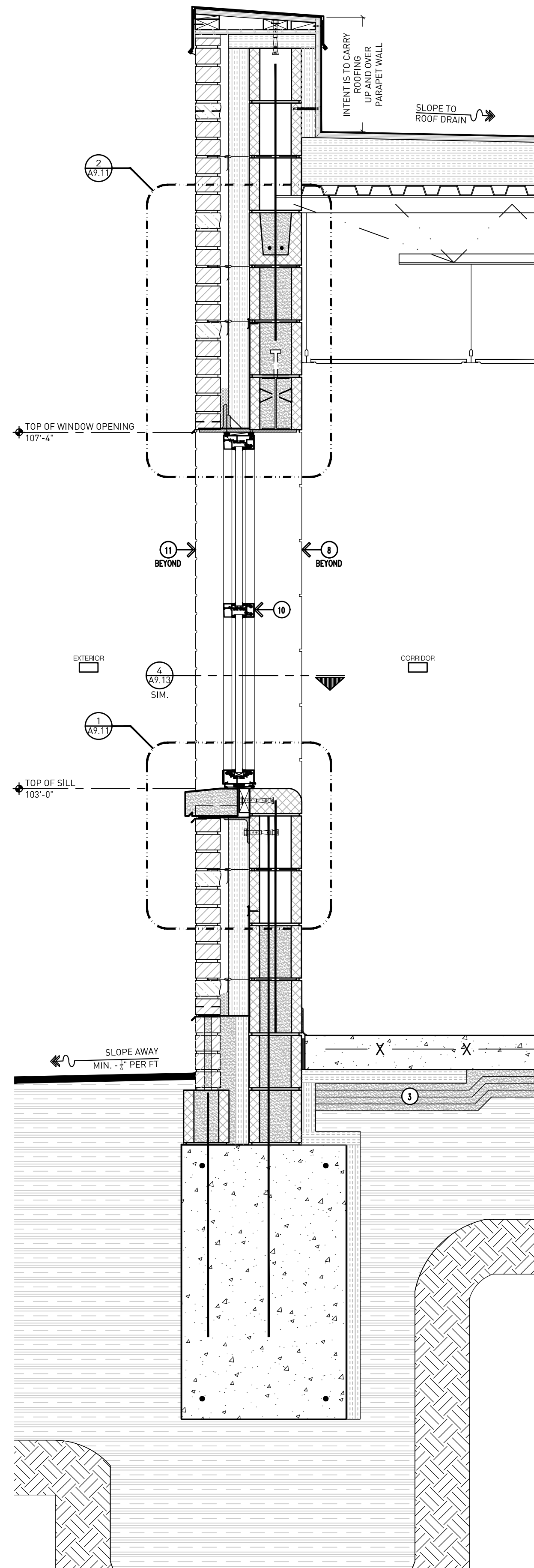


Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

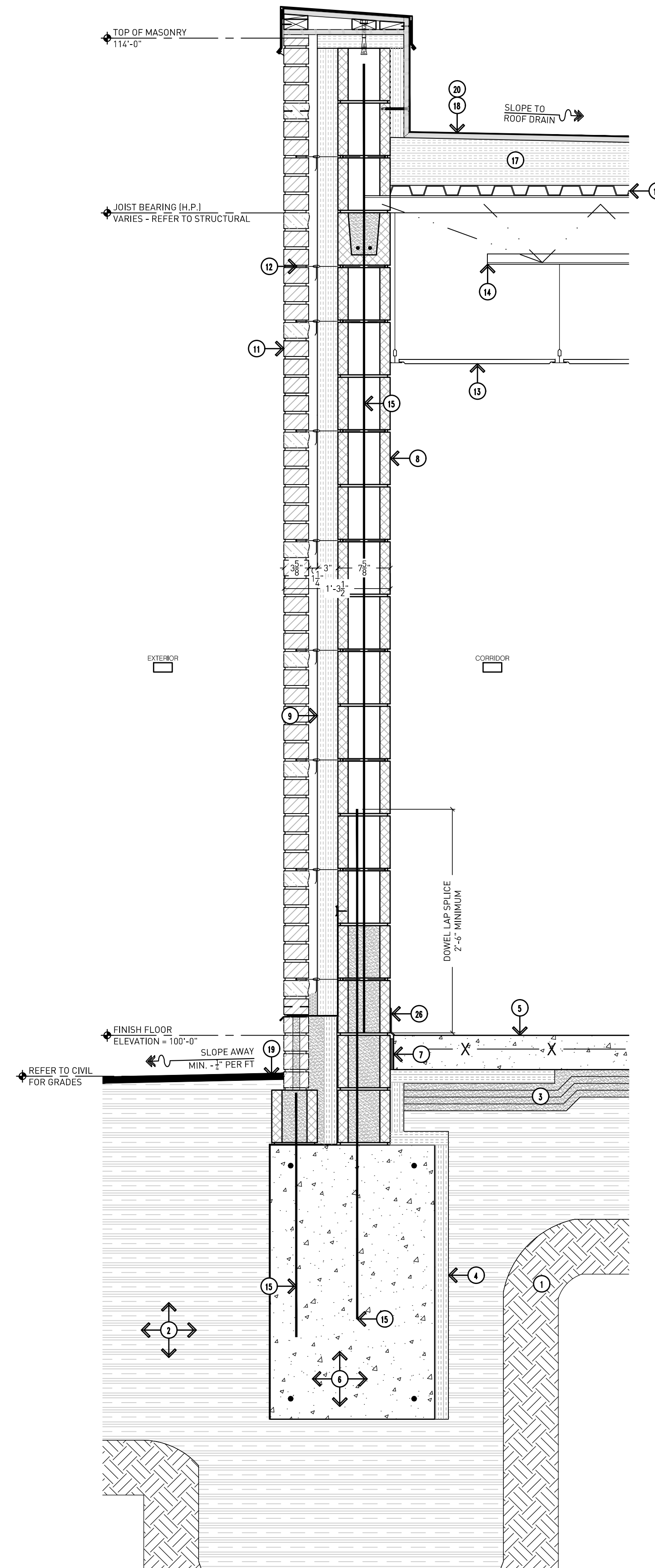
Project No. 3221 A9.00



3 Ext. Wall Section F - North/South [Area B]
 Scale: 1"=1'-0"
 REFER TO 1/A9.01 FOR TYPICAL NOTES



2 Ext. Wall Section E - North/South [Area B]
 Scale: 1"=1'-0"
 REFER TO 1/A9.01 FOR TYPICAL NOTES



1 Ext. Wall Section D - North/South [Area B]
 Scale: 1"=1'-0"

GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- G3. PROVIDE NON-COM WOOD BLOCKING BEHIND ALL MISCELLANEOUS TRIM LOCATIONS AND ALL OTHER ATTACHMENT LOCATIONS WHETHER PARTICULARLY SHOWN ON THE DOCUMENT OR NOT.
- G4. ALL PREFINISHED METAL COPING TO BE COMPLETE WITH CONCEALED CLIP ANCHORS ON BOTH SIDES (NO VISIBLE FASTENERS).
- G5. CARRY ROOFING UP AND OVER PARAPET CAP -- TYPICAL.
- G6. PROVIDE CONTINUOUS SPRAY-APPLIED VAPOR BARRIER COVERING FACE OF WALL AND UP AND OVER PARAPET WALL. TERMINATE WITH ROOFING PER MANUFACTURER'S REQUIREMENTS. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE ENTIRE BUILDING ENVELOPE AND INCLUDE ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
- G7. ALL FLEXIBLE MEMBRANE FLASHING TO BE SECURED TO SUBSTRATE WITH TERMINATION BAR AND SEALANT -- INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- G8. FILL BRICK CORES AND COLLAR JOINTS SOLID BELOW GRADE AND BELOW ALL FLASHINGS.
- G9. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- G10. PROVIDE MASONRY WEEP VENTS @ 32" O.C. HORIZONTALLY AT TOP AND BOTTOM OF WALL COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING @ 16" UP WALL.
- 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.

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. 2" RIGID INSULATION BOARD MINIMUM 24" INSIDE BUILDING, AND VERTICALLY BEHIND FOUNDATION.
5. CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS - REFER TO STRUCTURAL DRAWINGS.
6. CONCRETE FOUNDATION -- REFER TO STRUCTURAL DRAWINGS.
7. 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT.
8. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
9. 3" SPRAY FOAM BUILDING INSULATION SYSTEM WITH INTEGRAL CONTINUOUS VAPOR BARRIER.
10. STOREFRONT FRAMING AND GLAZING -- REFER TO DOOR SCHEDULE AND DETAILS.
11. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTAL (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
12. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
13. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
14. STRUCTURAL STEEL ROOF FRAMING -- REFER TO STRUCTURAL DRAWINGS.
15. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
16. 1 1/2" GALVANIZED METAL ROOF DECK.
17. RIGID ROOF INSULATION BOARD (MINIMUM 6" THICKNESS -- TWO LAYERS AND COVERBOARD).
18. FULLY ADHERED SINGLE-PLY EPDM ROOFING -- CARRY UP AND OVER FACE OF PARAPET WALL.
19. LINE OF GRADE.
20. ROOFING COVERBOARD.
21. DOOR - REFER TO DOOR SCHEDULE.
22. DRAINAGE MATERIAL (AGGREGATE) - REFER TO STRUCTURAL DRAWINGS.
23. INSULATION FORM - REFER TO STRUCTURAL DRAWINGS.
24. 5" CONCRETE FROST SLAB -- SLOPE AWAY FROM BUILDING MINIMUM 1/4" PER FOOT.
25. ALUMINUM THRESHOLD.
26. WALL BASE--REFER TO FINISH SCHEDULE.



Bidding and Permits: 31 July 2023

Exterior Wall Sections



Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

A9.01

GENERAL NOTES:

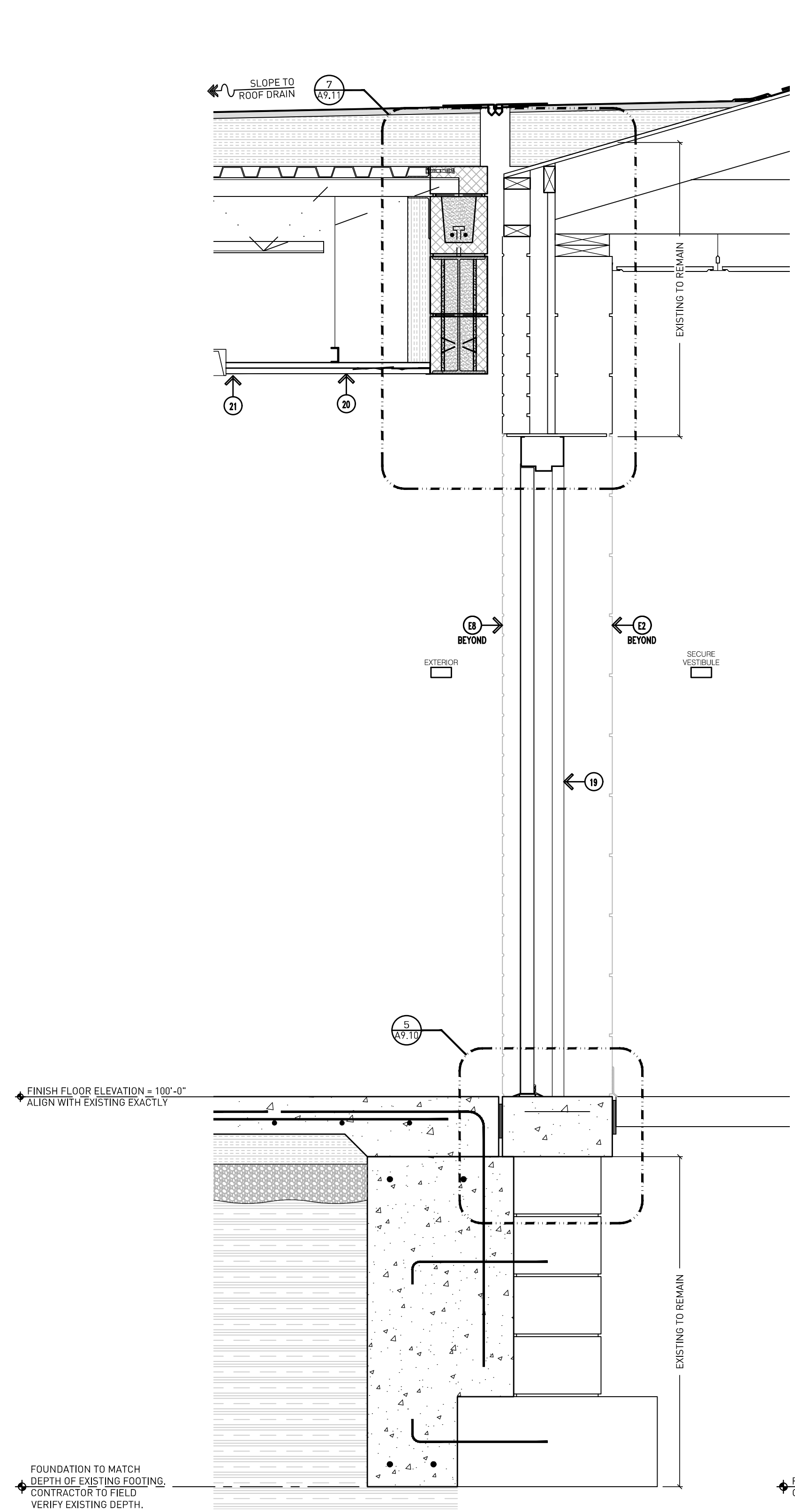
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- G3. PROVIDE NON-COM WOOD BLOCKING BEHIND ALL MISCELLANEOUS TRIM LOCATIONS AND ALL OTHER ATTACHMENT LOCATIONS WHETHER PARTICULARLY SHOWN ON THE DOCUMENTS OR NOT.
- G4. ALL PREFINISHED METAL COPING TO BE COMPLETE WITH CONCEALED CLIP ANCHORS ON BOTH SIDES (NO VISIBLE FASTENERS).
- G5. CARRY ROOFING UP AND OVER PARAPET CAP -- TYPICAL.
- G6. PROVIDE CONTINUOUS SPRAY-APPLIED VAPOR BARRIER COVERING FACE OF WALL AND UP AND OVER PARAPET WALL. TERMINATE WITH ROOFING PER MANUFACTURER'S REQUIREMENTS. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE ENTIRE BUILDING ENVELOPE AND INCLUDE ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
- G7. ALL FLEXIBLE MEMBRANE FLASHING TO BE SECURED TO SUBSTRATE WITH TERMINATION BAR AND SEALANT -- INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- G8. FILL BRICK CORES AND COLLAR JOINTS SOLID BELOW GRADE AND BELOW ALL FLASHINGS.
- G9. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- G10. PROVIDE MASONRY WEEP VENTS @ 32" O.C. HORIZONTALLY AT TOP AND BOTTOM OF WALL COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
- 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.

EXISTING TO REMAIN NOTES:

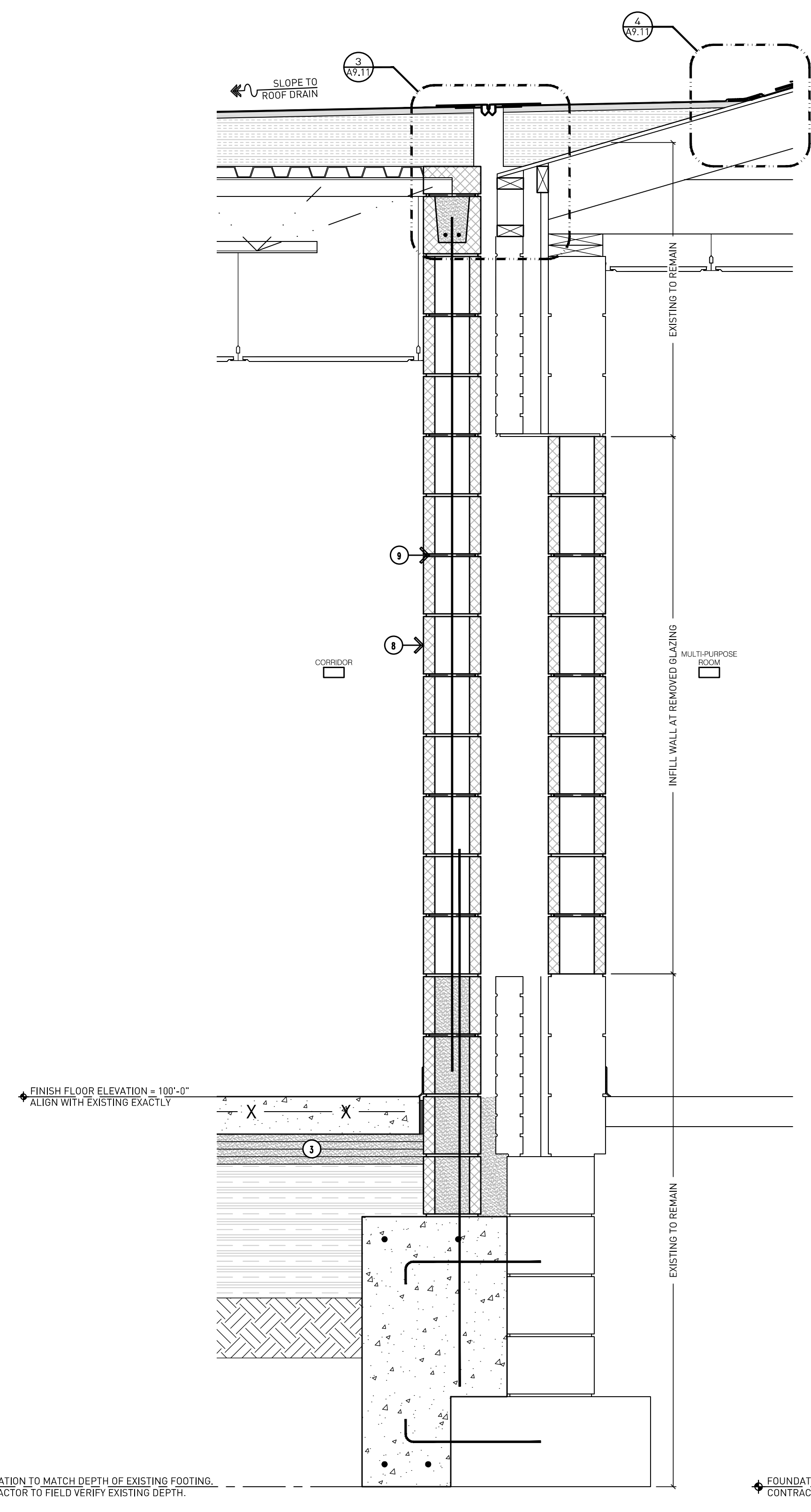
- E1. CONCRETE FLOOR SLAB - EXACT CONDITIONS UNKNOWN.
- E2. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E3. ROOF, ROOF STRUCTURE, AND ROOF DECK - EXACT CONDITIONS UNKNOWN.
- E4. UNDISTURBED SOIL.
- E5. STRUCTURAL FOOTING - EXACT CONDITIONS UNKNOWN. CONTRACTOR TO FIELD VERIFY DEPTH.
- E6. WALL INSULATION - EXACT CONDITIONS UNKNOWN.
- E7. ROOF INSULATION - EXACT CONDITIONS UNKNOWN. REMOVE WHERE NECESSARY FOR CONSTRUCTION OF NEW WALL.
- E8. BRICK VENEER - EXACT CONDITIONS UNKNOWN.

DRAWING NOTES:

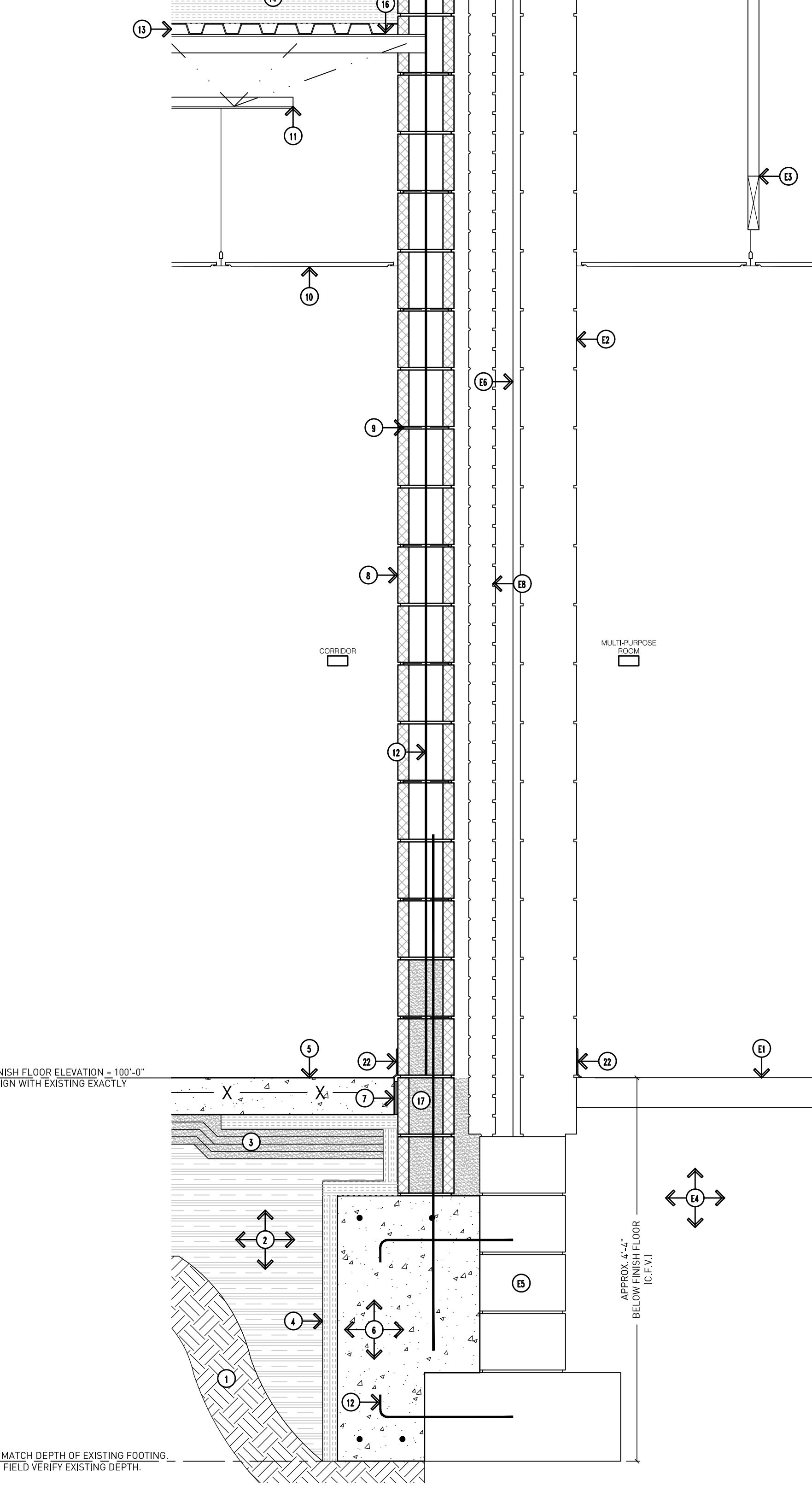
1. PROPERLY COMPACTED EXISTING SUBGRADE.
2. COMPACTED ENGINEERED FILL AS REQUIRED AFTER REMOVAL OF EXISTING LAWN / UNSUITABLE SOILS AS REQUIRED FOR PROPER SLAB ELEVATION.
3. COMPACTED SAND CUSHION BASE (MINIMUM 4").
4. 2" RIGID INSULATION BOARD MINIMUM 24" INSIDE BUILDING, AND VERTICALLY BEHIND FOUNDATION.
5. CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS - REFER TO STRUCTURAL DRAWINGS.
6. CONCRETE FOUNDATION -- REFER TO STRUCTURAL DRAWINGS.
7. 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT.
8. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
9. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
10. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
11. STRUCTURAL STEEL ROOF FRAMING -- REFER TO STRUCTURAL DRAWINGS.
12. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
13. 1 1/2" GALVANIZED METAL ROOF DECK.
14. RIGID ROOF INSULATION BOARD (MINIMUM 6" THICKNESS -- TWO LAYERS AND COVERBOARD).
15. FULLY ADHERED SINGLE-PLY EPDM ROOFING -- CARRY UP AND OVER FACE OF PARAPET WALL.
16. STEEL ANGLE DECK SUPPORT -- REFER TO STRUCTURAL DRAWINGS.
17. GROUT CMU SOLID.
18. ROOFING COVERBOARD.
19. DOOR - REFER TO DOOR SCHEDULE.
20. 1/2" CEMENT PLASTER SOFFIT ON GALVANIZED METAL LATH -- PAINT (COLOR AS SELECTED FROM MANUFACTURER'S STANDARD COLOR RANGE).
21. RECESSED LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS.
22. WALL BASE -- REFER TO FINISH SCHEDULE.



3 Ext. Wall Section I - North/South [Area B]
Scale: 1"=1'-0"
REFER TO 1/A9.02 FOR TYPICAL NOTES



2 Ext. Wall Section H - North/South [Area B]
Scale: 1"=1'-0"
REFER TO 1/A9.02 FOR TYPICAL NOTES



1 Ext. Wall Section G - North/South [Area B]
Scale: 1"=1'-0"



Bidding and Permits: 31 July 2023

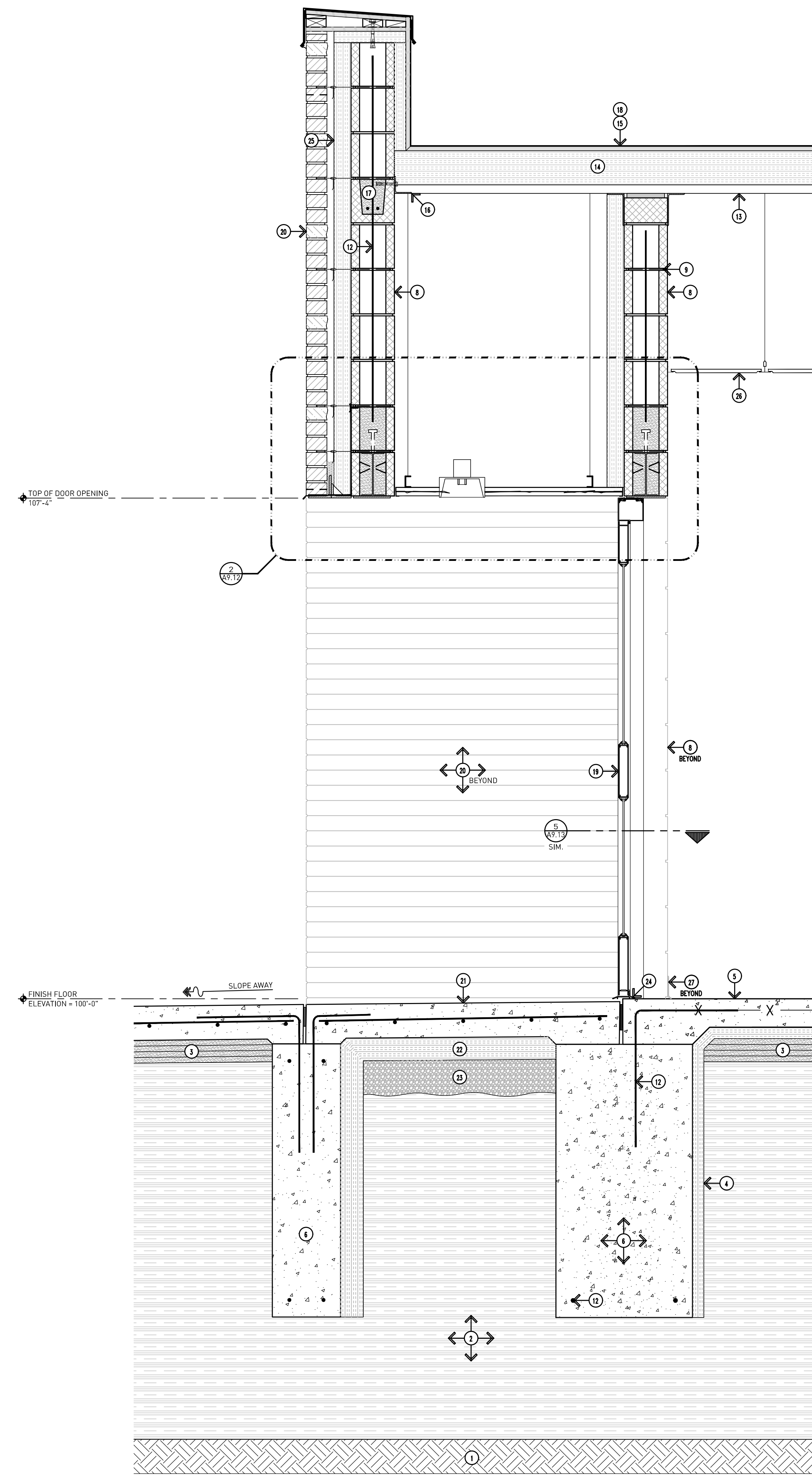
Exterior Wall Sections

EHRESMAN ARCHITECTS
ehresmanarchitects.com

Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A9.02



GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- G3. PROVIDE NON-COM WOOD BLOCKING BEHIND ALL MISCELLANEOUS TRIM LOCATIONS AND ALL OTHER ATTACHMENT LOCATIONS WHETHER PARTICULARLY SHOWN ON THE DOCUMENTS OR NOT.
- G4. ALL PREFINISHED METAL COPING TO BE COMPLETE WITH CONCEALED CLIP ANCHORS ON BOTH SIDES (NO VISIBLE FASTENERS).
- G5. CARRY ROOFING UP AND OVER PARAPET CAP -- TYPICAL.
- G6. PROVIDE CONTINUOUS SPRAY-APPLIED VAPOR BARRIER COVERING FACE OF WALL AND OVER PARAPET WALL. TERMINATE WITH ROOFING PER MANUFACTURER'S REQUIREMENTS. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE ENTIRE BUILDING ENVELOPE AND INCLUDE ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
- G7. ALL FLEXIBLE MEMBRANE FLASHING TO BE SECURED TO SUBSTRATE WITH TERMINATION BAR AND SEALANT -- INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- G8. FILL BRICK CORES AND COLLAR JOINTS SOLID BELOW GRADE AND BELOW ALL FLASHINGS.
- G9. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- G10. PROVIDE MASONRY WEEP VENTS @ 32" O.C. HORIZONTALLY AT TOP AND BOTTOM OF WALL COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
- 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.

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. 2" RIGID INSULATION BOARD MINIMUM 24" INSIDE BUILDING, AND VERTICALLY BEHIND FOUNDATION.
- 5. CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS - REFER TO STRUCTURAL DRAWINGS.
- 6. CONCRETE FOUNDATION -- REFER TO STRUCTURAL DRAWINGS.
- 7. 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT.
- 8. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
- 9. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 10. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
- 11. STRUCTURAL STEEL ROOF FRAMING -- REFER TO STRUCTURAL DRAWINGS.
- 12. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
- 13. 1 1/2" GALVANIZED METAL ROOF DECK.
- 14. RIGID ROOF INSULATION BOARD (MINIMUM 6" THICKNESS -- TWO LAYERS AND COVERBOARD).
- 15. FULLY ADHERED SINGLE-PLY EPDM ROOFING -- CARRY UP AND OVER FACE OF PARAPET WALL.
- 16. STEEL ANGLE DECK SUPPORT -- REFER TO STRUCTURAL DRAWINGS.
- 17. GROUT CMU SOLID.
- 18. ROOFING COVERBOARD.
- 19. DOOR - REFER TO DOOR SCHEDULE.
- 20. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
- 21. 5" PATIO CONCRETE SLAB -- SLOPE AWAY FROM BUILDING MINIMUM 1/4" PER FOOT.
- 22. INSULATION FORM - REFER TO STRUCTURAL DRAWINGS.
- 23. DRAINAGE MATERIAL (AGGREGATE) - REFER TO STRUCTURAL DRAWINGS.
- 24. ALUMINUM THRESHOLD.
- 25. 3" SPRAY FOAM BUILDING INSULATION SYSTEM WITH INTEGRAL CONTINUOUS VAPOR BARRIER.
- 26. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
- 27. WALL BASE--REFER TO FINISH SCHEDULE.



Bidding and Permits: 31 July 2023

Exterior Wall Sections



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A9.03

1 Ext. Wall Section J - East/West (Area B)
Scale: 1"=1'-0"

DRAWING NOTES (CONT.):

- 44. LINE OF GRADE.
- 45. WINDOW SHADE.
- 46. MINIMUM 4" CONCRETE PATCH ABOVE FOUNDATION AT LOCATION OF NEW WALL OPENING.
- 47. INSULATION FORM - REFER TO STRUCTURAL DRAWINGS.
- 48. DRAINAGE MATERIAL (AGGREGATE) - REFER TO STRUCTURAL DRAWINGS.
- 49. ALUMINUM THRESHOLD.
- 50. WALL BASE--REFER TO FINISH SCHEDULE.

DRAWING NOTES (CONT.):

- 38. GROUT CMU CORES SOLID BELOW FLASHING AT WHERE BELOW GRADE.
- 39. FILL BRICK/CMU CORES AND COLLAR JOINTS SOLID BELOW FLASHING AND WHERE BELOW GRADE.
- 40. DOOR FRAME - REFER TO DOOR SCHEDULE.
- 41. DOOR - REFER TO DOOR SCHEDULE.
- 42. JAMB ANCHOR TO SUIT CONDITIONS.
- 43. WATERPROOFING.

GENERAL NOTES:

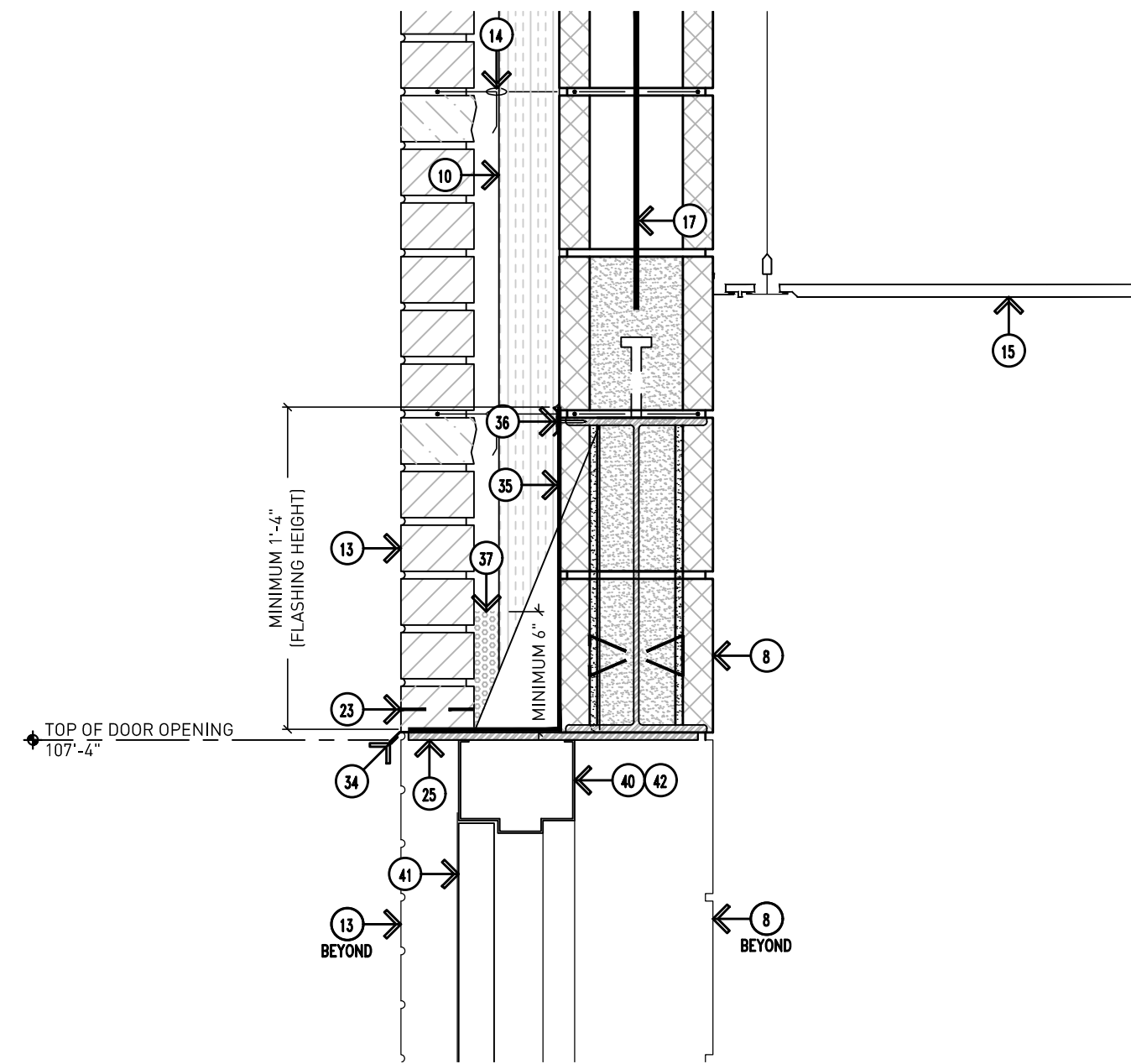
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. NOT ALL NOTES ARE APPLICABLE TO THIS SHEET.
- G3. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- G4. PROVIDE NON-COM WOOD BLOCKING BEHIND ALL MISCELLANEOUS TRIM LOCATIONS AND ALL OTHER ATTACHMENT LOCATIONS WHETHER PARTICULARLY SHOWN ON THE DOCUMENTS OR NOT.
- G5. ALL PREFINISHED METAL COPING TO BE COMPLETE WITH CONCEALED CLIP ANCHORS ON BOTH SIDES AND VISIBLE FASTENERS.
- G6. CARRY ROOFING UP AND OVER PARAPET CAP -- TYPICAL.
- G7. PROVIDE CONTINUOUS SPRAY-APPLIED VAPOR BARRIER COVERING FACE OF WALL AND UP AND OVER PARAPET WALL. TERMINATE WITH ROOFING PER MANUFACTURER'S REQUIREMENTS. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE ENTIRE BUILDING ENVELOPE AND INCLUDE ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
- G8. ALL FLEXIBLE MEMBRANE FLASHING TO BE SECURED TO SUBSTRATE WITH TERMINATION BAR AND SEALANT -- INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- G9. FILL BRICK CORES AND COLLAR JOINTS SOLID BELOW GRADE AND BELOW ALL FLASHINGS.
- G10. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- G11. PROVIDE MASONRY WEEP VENTS @ 32" O.C. HORIZONTALLY AT TOP AND BOTTOM OF WALL COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
- G12. 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.

EXISTING TO REMAIN NOTES:

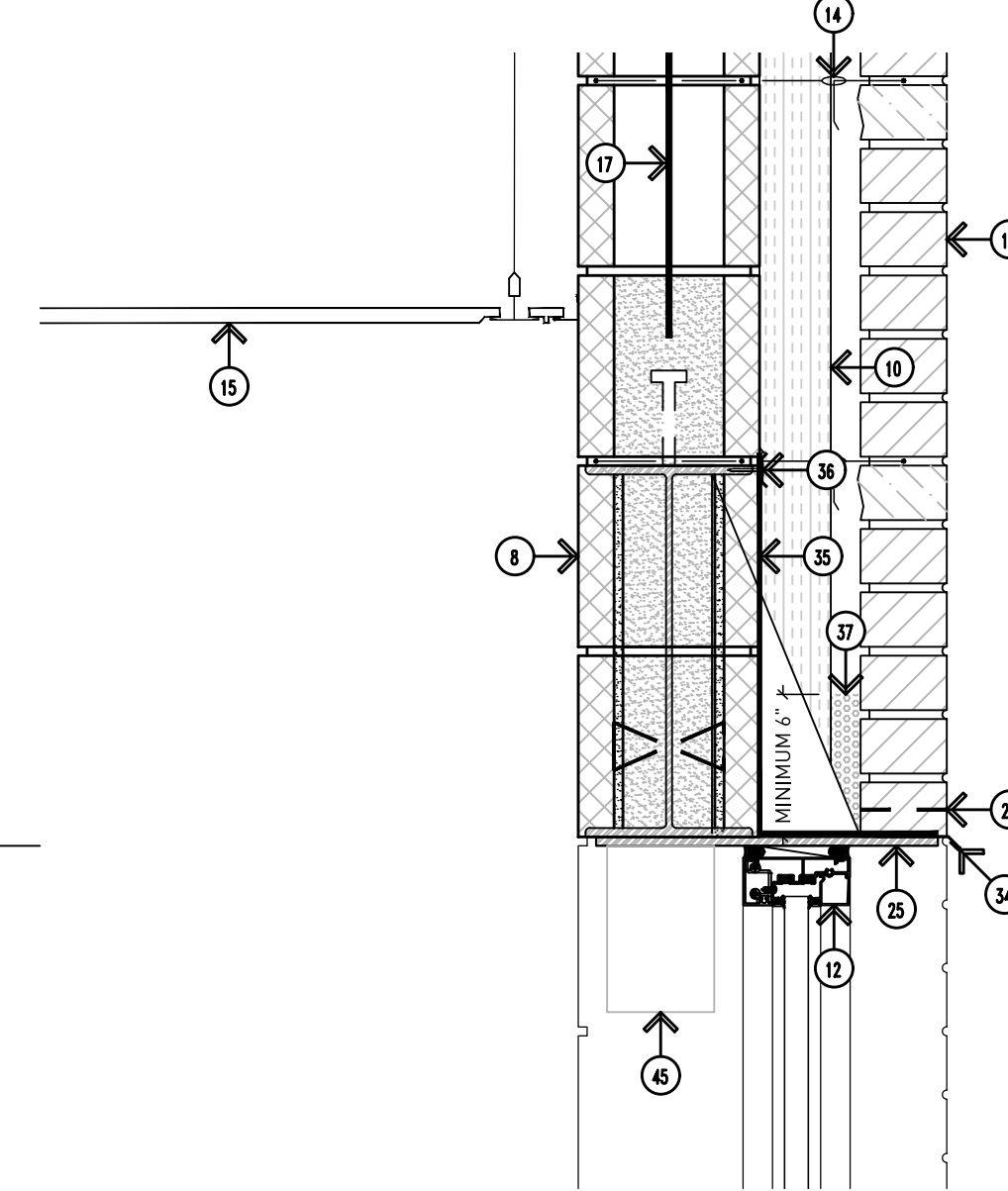
- E1. CONCRETE FLOOR SLAB - EXACT CONDITIONS UNKNOWN.
- E2. STRUCTURAL FOOTING - EXACT CONDITIONS UNKNOWN. CONTRACTOR TO FIELD VERIFY DEPTH.

DRAWING NOTES:

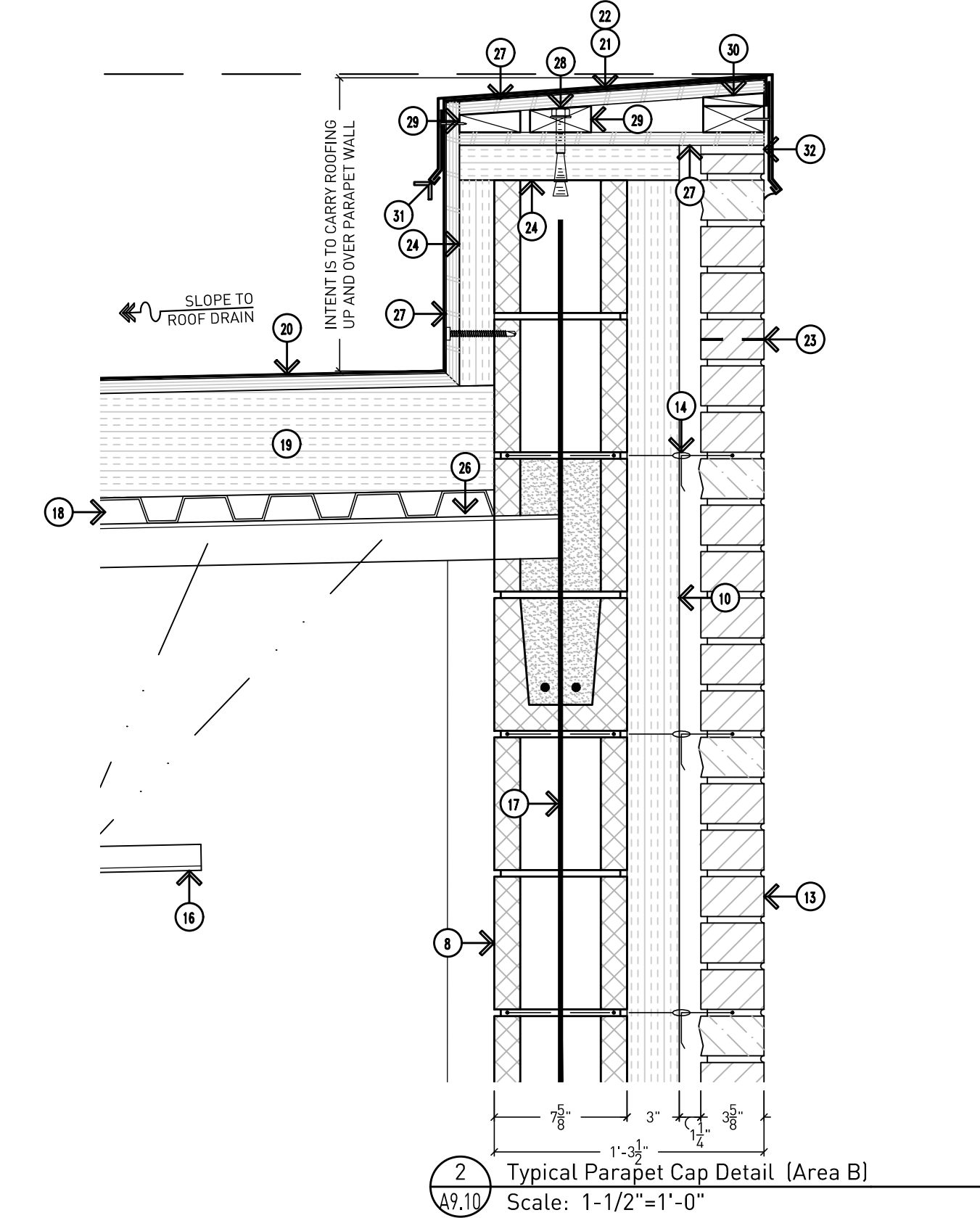
- 1. PROPERLY COMPACTED EXISTING SUBGRADE.
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- 3. COMPACTED SAND CUSHION BASE (MINIMUM 4").
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- 5. CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS - REFER TO STRUCTURAL DRAWINGS.
- 6. CONCRETE FOUNDATION -- REFER TO STRUCTURAL DRAWINGS.
- 7. 1/2" PREMOULDED EXPANSION JOINT WITH SEALANT.
- 8. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
- 9. BULLNOSE CMU MASONRY BLOCK.
- 10. 3" SPRAY FOAM BUILDING INSULATION SYSTEM WITH INTEGRAL CONTINUOUS VAPOR BARRIER AND ACCESSORIES AS REQUIRED TO PROVIDE BARRIER FROM FOUNDATION TO ROOFING.
- 11. LIMESTONE WINDOW SILL AND PROFILE TO MATCH EXISTING.
- 12. STOREFRONT FRAMING AND GLAZING -- REFER TO WINDOW SCHEDULE AND DETAILS.
- 13. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
- 14. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 15. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
- 16. STRUCTURAL STEEL ROOF FRAMING -- REFER TO STRUCTURAL DRAWINGS.
- 17. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
- 18. 1 1/2" GALVANIZED METAL ROOF DECK.
- 19. RIGID ROOF INSULATION BOARD (MINIMUM 6" THICKNESS -- TWO LAYERS AND COVERBOARD).
- 20. FULLY ADHERED SINGLE-PLY EPDM ROOFING -- CARRY UP AND OVER FACE OF PARAPET WALL.
- 21. PARAPET WALL BLOCKING -- REFER TO DETAIL 9/A9.14 FOR FURTHER INFORMATION.
- 22. PREFINISHED METAL PARAPET CAP FLASHING WITH CONCEALED CLIP ANCHORS BOTH SIDES (NO EXPOSED FASTENERS).
- 23. 1/2" x 1 1/2" PLASTIC WEEP VENT WITH INSECT SCREEN.
- 24. 2" RIGID BUILDING INSULATION OVER CONTINUOUS VAPOR BARRIER.
- 25. STEEL LINTEL WITH PLATE, PAINT -- REFER TO STRUCTURAL DRAWINGS.
- 26. STEEL ANGLE DECK SUPPORT -- REFER TO STRUCTURAL DRAWINGS.
- 27. 2" PRESERVATIVE TREATED PLYWOOD SHEATHING.
- 28. PRESERVATIVE TREATED WOOD NAILER WITH EXPANSION ANCHORS.
- 29. 2"x4" PRESERVATIVE TREATED WOOD NAILER.
- 30. 1"x4" PRESERVATIVE TREATED WOOD NAILER--CUT TO FIT PROFILE (CONTRACTOR OPTION TO UTILIZE CARLISLE SECREDGE 200 COPING INSTEAD).
- 31. SEALANT (WITH FOAM BACKER ROD AS NECESSARY TO SUIT CONDITIONS).
- 32. COMPRESSIBLE FILLER.
- 33. 5" CONCRETE FROST SLAB - SLOPE AWAY FROM BUILDING MINIMUM 1/2" PER FOOT.
- 34. STAINLESS STEEL METAL DRIP WITH HEMMED EDGE.
- 35. FULLY ADHERED FLEXIBLE MEMBRANE FLASHING WITH END DAMS.
- 36. TERMINATION BAR WITH TOP SEALANT--INSTALL PER MANUFACTURER'S REQUIREMENTS.
- 37. PEA STONE DRAINAGE MATERIAL (MINIMUM 6" HEIGHT).



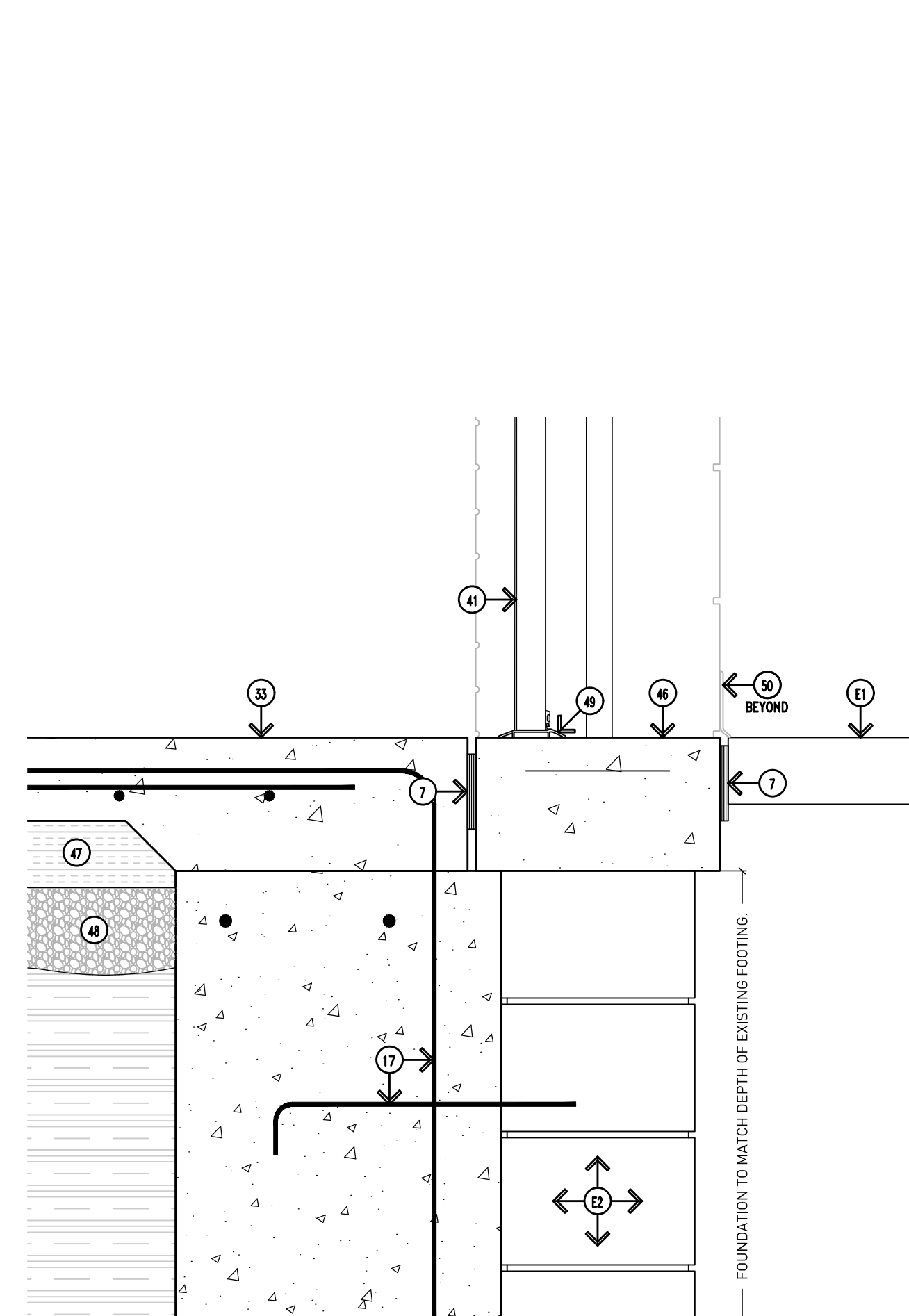
6 Typical Egress Door Head Detail (Area B)
Scale: 1-1/2"=1'-0"



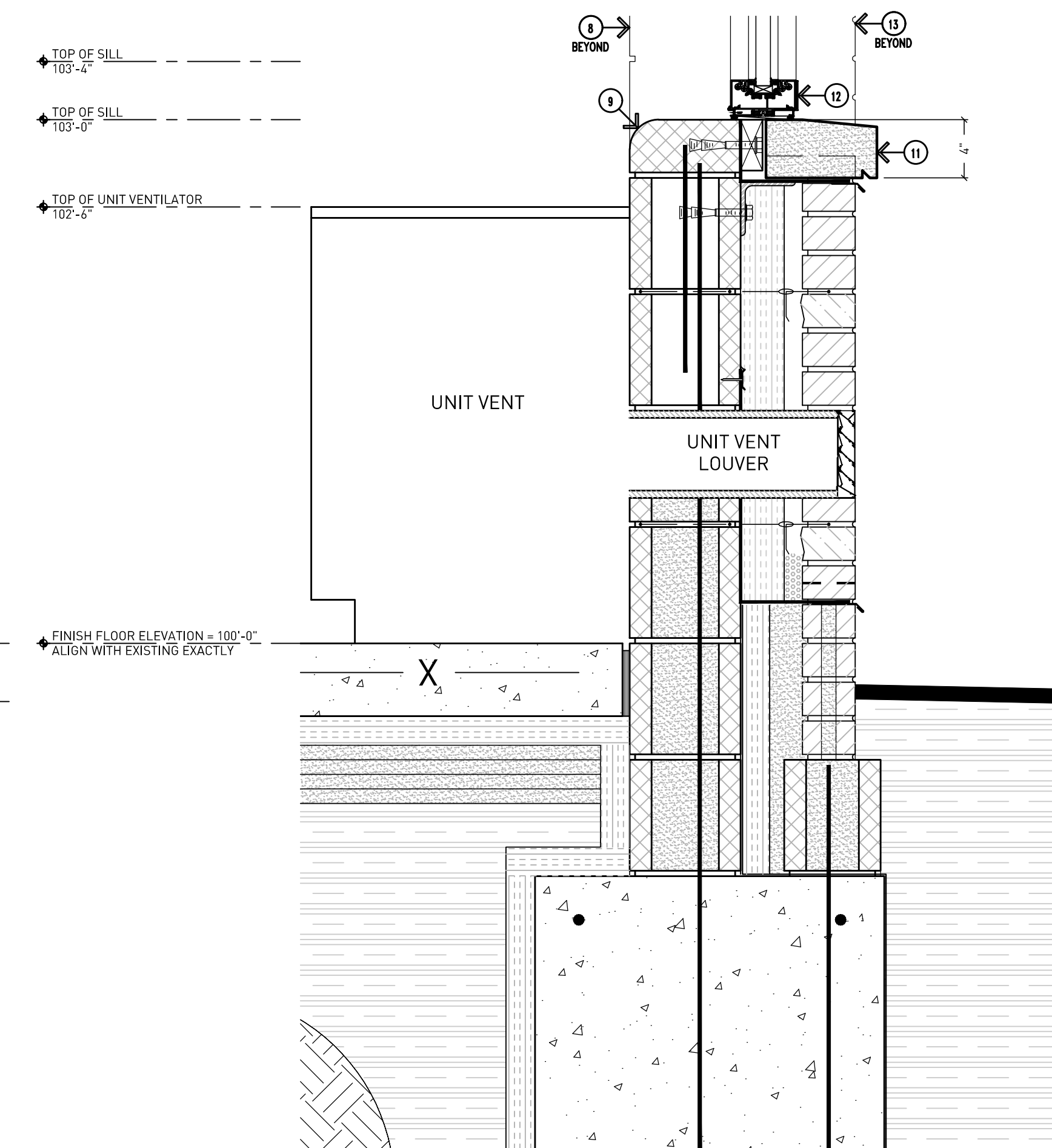
4 Typical Classroom Window Head Detail (Area B)
Scale: 1-1/2"=1'-0"



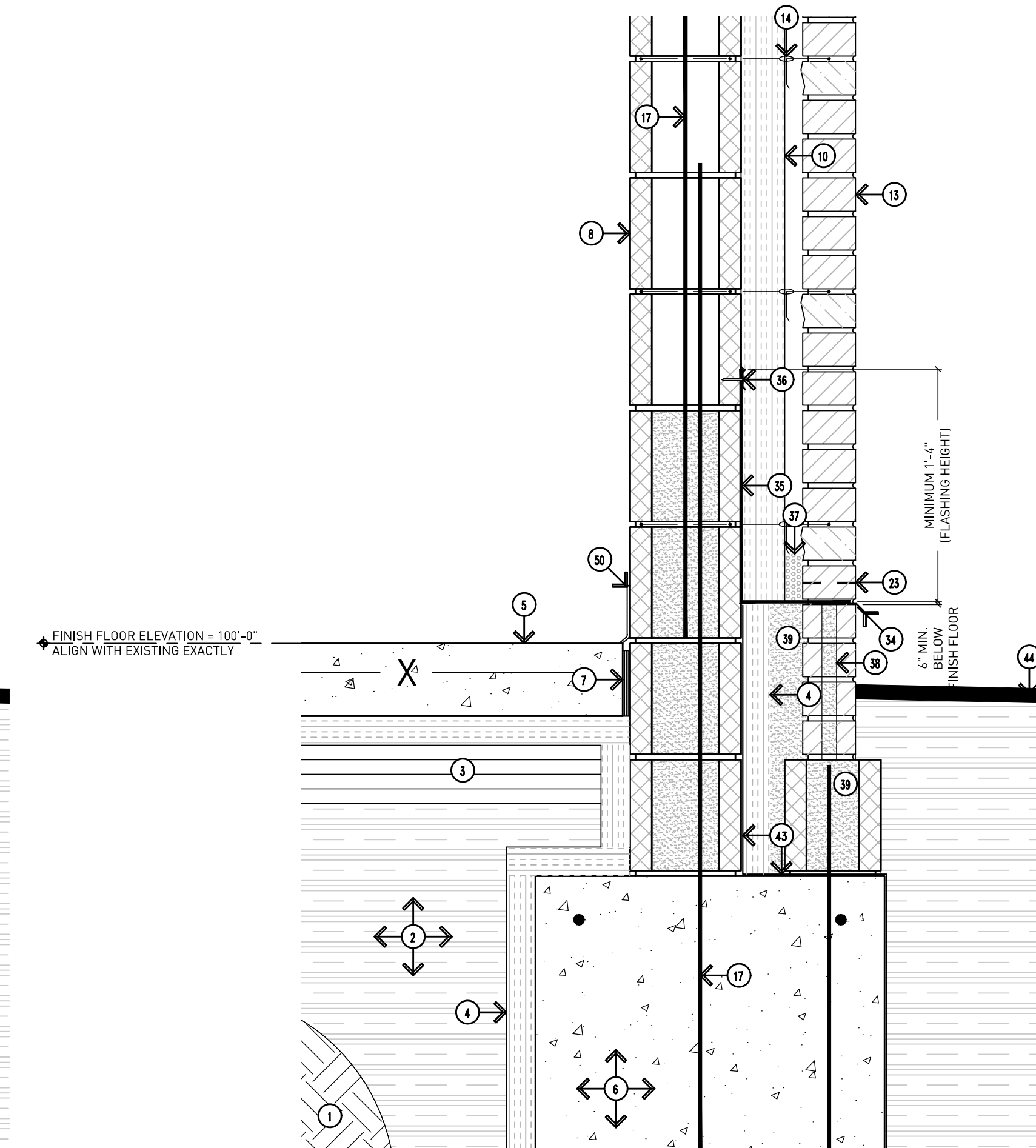
2 Typical Parapet Cap Detail (Area B)
Scale: 1-1/2"=1'-0"



5 Frost Slab/Floor Infill (Area A)
Scale: 1-1/2"=1'-0"
REFER TO 1/A9.10 FOR TYPICAL NOTES



3 Typical Window Sill/Louwer Detail (Area B)
Scale: 1-1/2"=1'-0"
REFER TO 1/A9.10 FOR TYPICAL NOTES



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



Bidding and Permits: 31 July 2023

Exterior Details

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Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

DRAWING NOTES (CONT.):

- 46. 1"x4" PRESERVATIVE TREATED WOOD NAILER--CUT TO FIT PROFILE (CONTRACTOR OPTION TO UTILIZE CARLISLE SECUREEDGE 200 COPING INSTEAD).
- 47. SEALANT (WITH FOAM BACKER ROD AS NECESSARY TO SUIT CONDITIONS).
- 48. COMPRESSIBLE FILLER
- 49. 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS ON 3/4" METAL FRAMING @ 16" O.C. ATTACHED TO SUPPORT STRUCTURE ABOVE.

DRAWING NOTES (CONT.):

- 34. DOOR - REFER TO DOOR SCHEDULE.
- 35. FULLY ADHERED SINGLE-PLY EPDM ROOFING -- CARRY UP AND OVER FACE OF PARAPET WALL.
- 36. 1/2" CEMENT PLASTER SOFFIT ON GALVANIZED METAL LATH -- PAINT (COLOR AS SELECTED FROM MANUFACTURER'S STANDARD COLOR RANGE).
- 37. 1/2" CROSS FURRING SPACED PER MANUFACTURER'S RECOMMENDATIONS.
- 38. 2" CRC MAIN RUNNER ATTACHED TO BUILDING STRUCTURE WITH GALVANIZED TIE WIRE (SPACED PER MANUFACTURER'S RECOMMENDATIONS).
- 39. RECESSED LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS.
- 40. 2"x4" PRESERVATIVE TREATED WOOD NAILER.
- 41. PARAPET WALL BLOCKING -- REFER TO DETAIL 9/A9.14 FOR FURTHER INFORMATION.
- 42. PREFINISHED METAL PARAPET CAP FLASHING WITH CONCEALED CLIP ANCHORS BOTH SIDES (NO EXPOSED FASTENERS).
- 43. 2" RIGID BUILDING INSULATION.
- 44. 1/2" PRESERVATIVE TREATED PLYWOOD SHEATHING.
- 45. PRESERVATIVE TREATED WOOD NAILER WITH EXPANSION ANCHORS

GENERAL NOTES:

- 01. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- 02. NOT ALL NOTES ARE APPLICABLE TO THIS SHEET.
- 03. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- 04. PROVIDE NON-COM WOOD BLOCKING BEHIND ALL MISCELLANEOUS TRIM LOCATIONS AND ALL OTHER ATTACHMENT LOCATIONS WHETHER PARTICULARLY SHOWN ON THE DOCUMENTS OR NOT.
- 05. ALL PREFINISHED METAL COPINGS TO BE COMPLETE WITH CONCEALED CLIP ANCHORS ON BOTH SIDES INTO VISIBLE FASTENERS).
- 06. CARRY ROOFING UP AND OVER PARAPET CAP -- TYPICAL.
- 07. PROVIDE CONTINUOUS SPRAY-APPLIED VAPOR BARRIER COVERING FACE OF WALL AND UP AND OVER PARAPET WALL. TERMINATE WITH ROOFING PER MANUFACTURER'S REQUIREMENTS. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE ENTIRE BUILDING ENVELOPE AND INCLUDE ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
- 08. ALL FLEXIBLE MEMBRANE FLASHING TO BE SECURED TO SUBSTRATE WITH TERMINATION BAR AND SEALANT -- INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- 09. FILL BRICK CORES AND COLLAR JOINTS SOLID BELOW GRADE AND BELOW ALL FLASHINGS.
- 010. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- 011. PROVIDE MASONRY WEEP VENTS @ 32" O.C. HORIZONTALLY AT TOP AND BOTTOM OF WALL COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
- 012. 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.

REMOVAL NOTES:

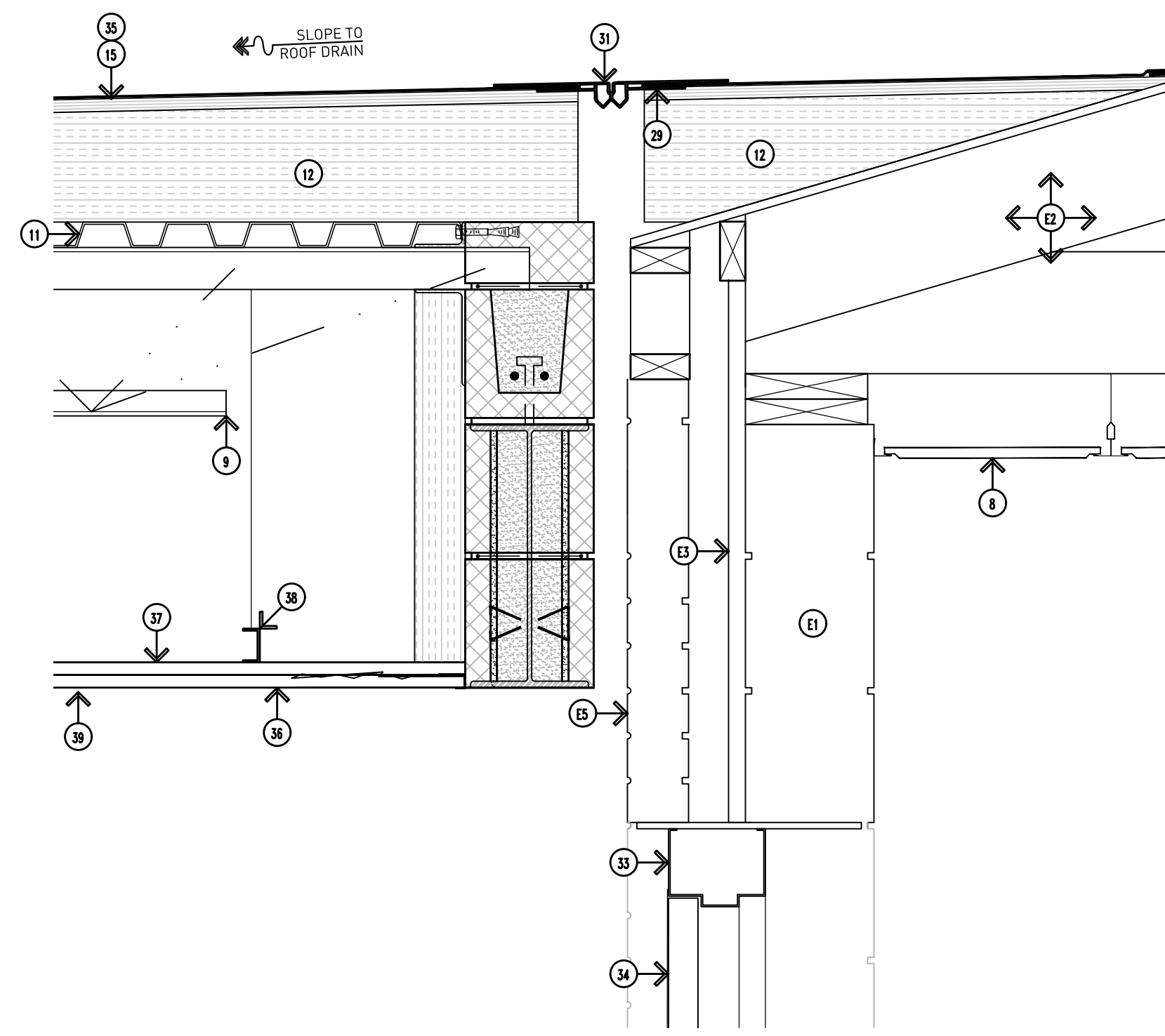
- R1. EXISTING ROOF, SOFFIT, GUTTER, DOWNSPOUT, ETC. AS REQUIRED. - E.C.U.

EXISTING TO REMAIN NOTES:

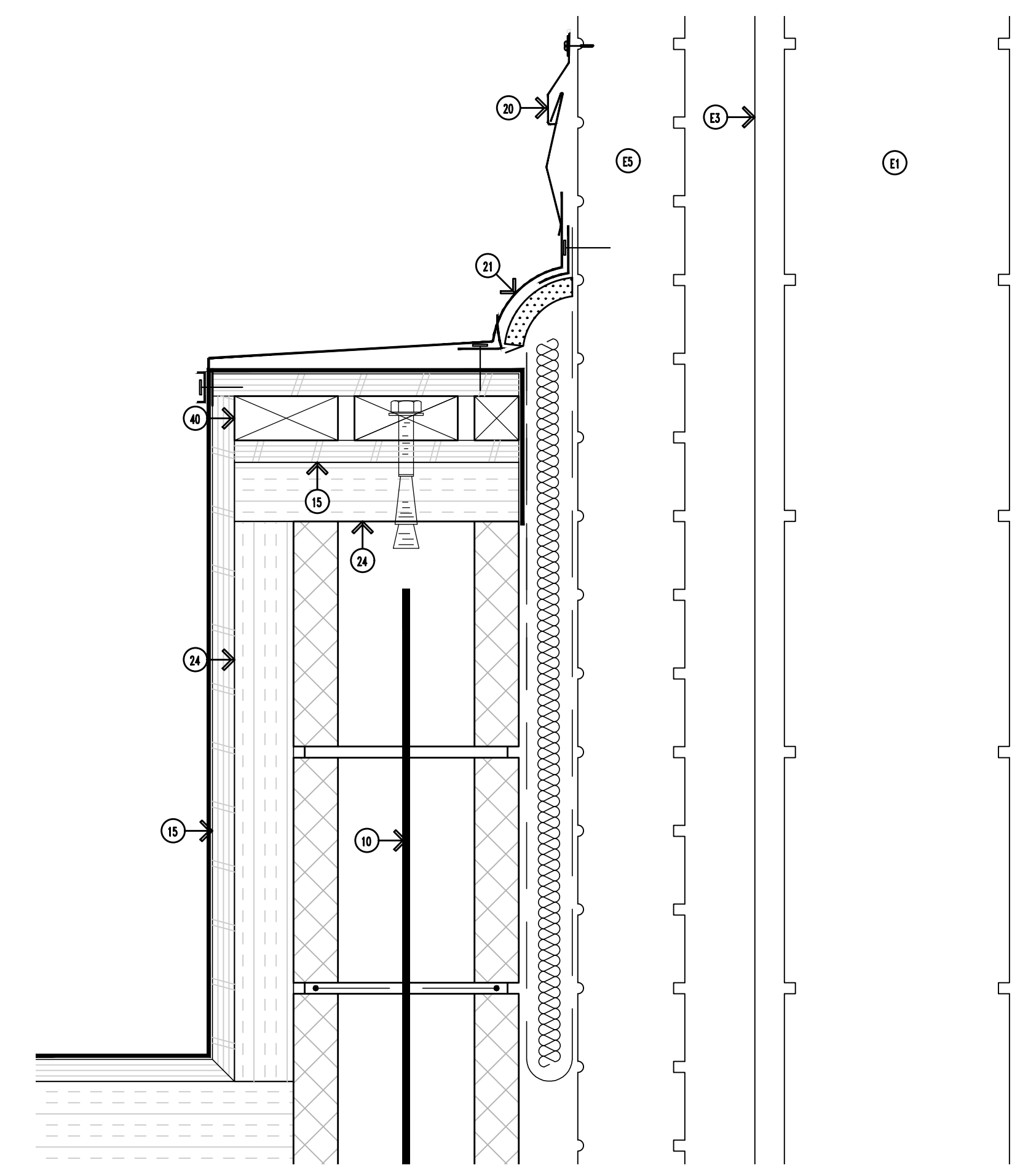
- E1. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E2. ROOF, ROOF STRUCTURE, AND ROOF DECK - EXACT CONDITIONS UNKNOWN.
- E3. WALL INSULATION - EXACT CONDITIONS UNKNOWN.
- E4. ROOF INSULATION - EXACT CONDITIONS UNKNOWN. REMOVE WHERE NECESSARY FOR CONSTRUCTION OF NEW WALL.
- E5. BRICK VENEER - EXACT CONDITIONS UNKNOWN.

DRAWING NOTES:

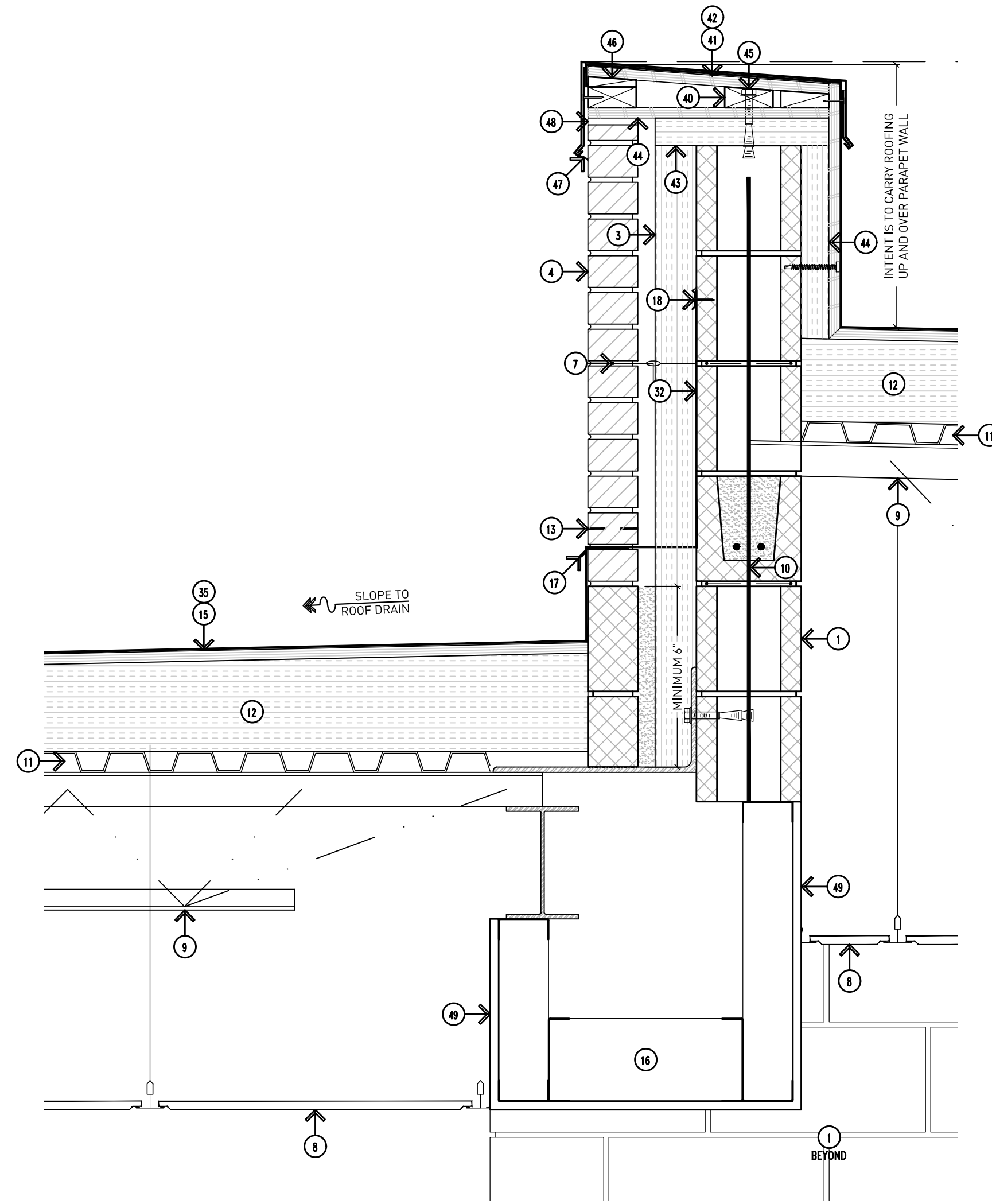
- 1. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
- 2. BULLNOSE CMU MASONRY BLOCK.
- 3. 3" SPRAY FOAM BUILDING INSULATION SYSTEM WITH INTEGRAL CONTINUOUS VAPOR BARRIER AND ACCESSORIES AS REQUIRED TO PROVIDE BARRIER FROM FOUNDATION TO ROOFING.
- 4. LIMESTONE WINDOW SILL AND PROFILE TO MATCH EXISTING.
- 5. STOREFRONT FRAMING AND GLAZING -- REFER TO WINDOW SCHEDULE AND DETAILS.
- 6. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
- 7. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 8. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
- 9. STRUCTURAL STEEL ROOF FRAMING -- REFER TO STRUCTURAL DRAWINGS.
- 10. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
- 11. 1/2" GALVANIZED METAL ROOF DECK.
- 12. RIGID ROOF INSULATION BOARD (MINIMUM 6" THICKNESS -- TWO LAYERS AND COVERBOARD).
- 13. 1/2" x 1/2" PLASTIC WEEP VENT WITH INSECT SCREEN.
- 14. STEEL LINTEL WITH PLATE, PAINT -- REFER TO STRUCTURAL DRAWINGS.
- 15. 1/2" PRESERVATIVE TREATED PLYWOOD SHEATHING.
- 16. 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS ON 6" METAL FRAMING @ 12" O.C.
- 17. STAINLESS STEEL METAL DRIP WITH HEMMED EDGE.
- 18. TERMINATION BAR WITH TOP SEALANT--INSTALL PER MANUFACTURER'S REQUIREMENTS.
- 19. PEA STONE DRAINAGE MATERIAL (MINIMUM 6" HEIGHT).
- 20. PREFINISHED TWO-PIECE COUNTER FLASHING.
- 21. PARAPET TO WALL JOINT COVER - BELLOWS TYPE, SIZE TO SUIT APPLICATION, INSULATED, 2 HOUR FIRE RATING.
- 22. SHINGLES, SHAKES, SLATE, ETC. BY OTHERS.
- 23. UNDERLAYMENT MAT OF WATER SHEDDING SYSTEM TO BE ABOVE CARLISLE MEMBRANE IN SHINGLE-FASHION, OVERLAP MIN. 6" (15cm).
- 24. CARLISLE FASTENER & SEAM PLATE, MAX. 12" (30cm) O.C.
- 25. 6" (15cm) WIDE PRESSURE-SENSITIVE RUSS AND EPDM PRIMER.
- 26. APPROVED SUBSTRATE.
- 27. ROOF MEMBRANE EXTENDED UNDER THE SHINGLE COURSES.
- 28. SURE-SEAL BONDING ADHESIVE.
- 29. LOWER ROOF JOINT FLAP.
- 30. TOP ROOF JOINT FLAP.
- 31. ROOF JOINT RJ-0200 (BY SIKA EMSEAL).
- 32. FULLY ADHERED FLEXIBLE MEMBRANE FLASHING WITH END DAMS.
- 33. DOOR FRAME - REFER TO DOOR SCHEDULE.



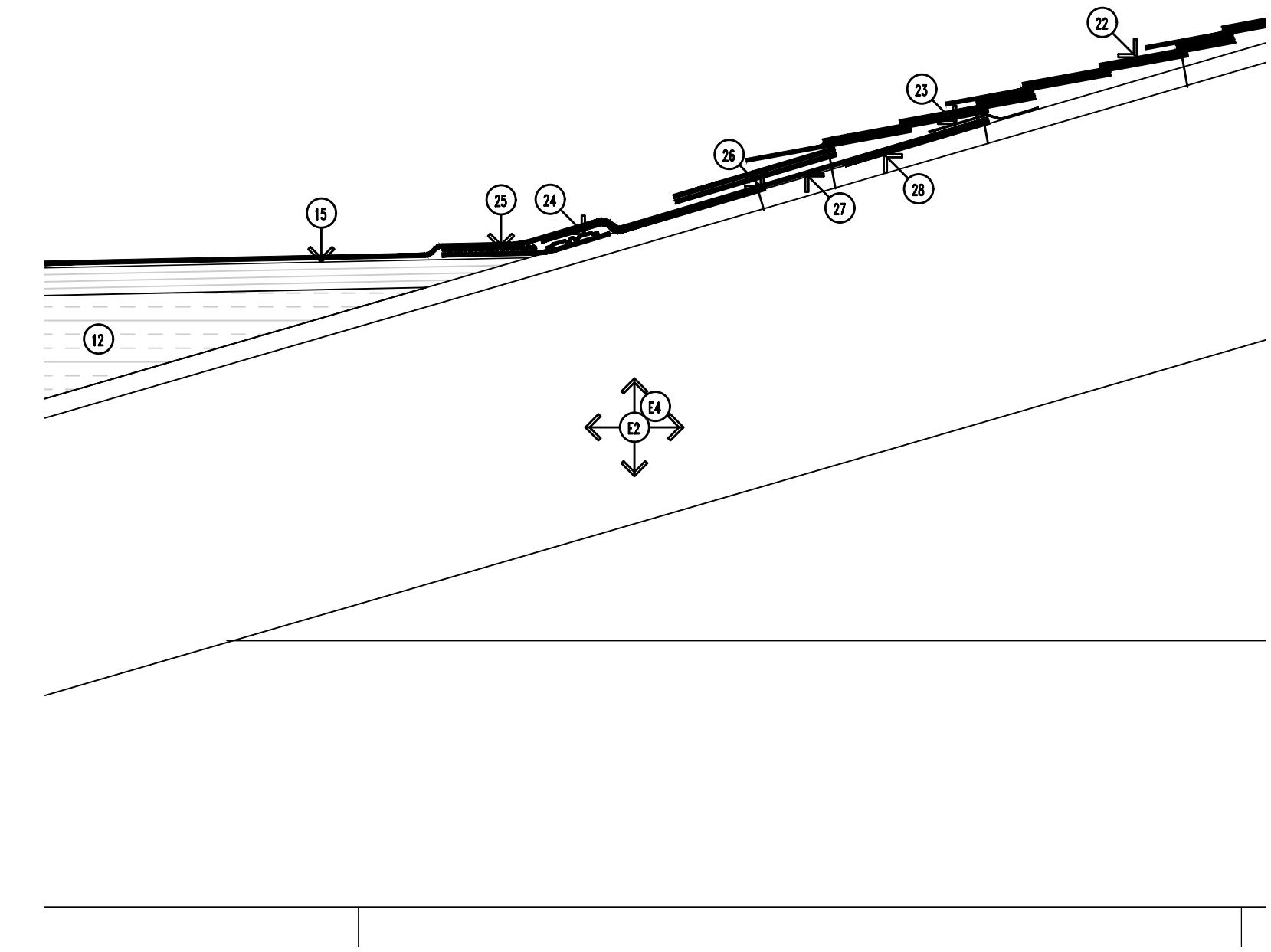
7 Roof Expansion Joint Detail @ Canopy (North/South)
Scale: 3"=1'-0"



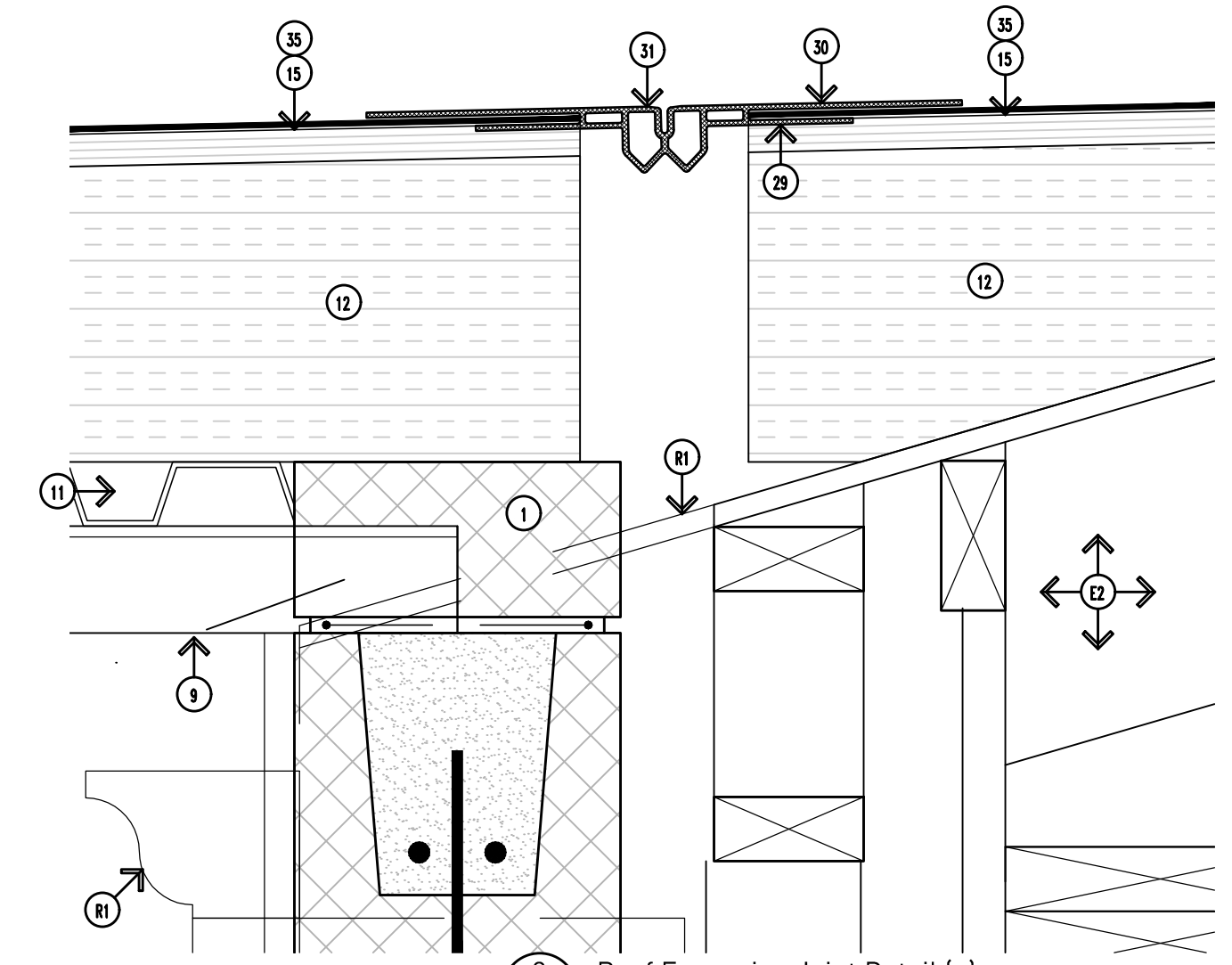
5 Roof Expansion Joint Detail (b)
Scale: 3"=1'-0"



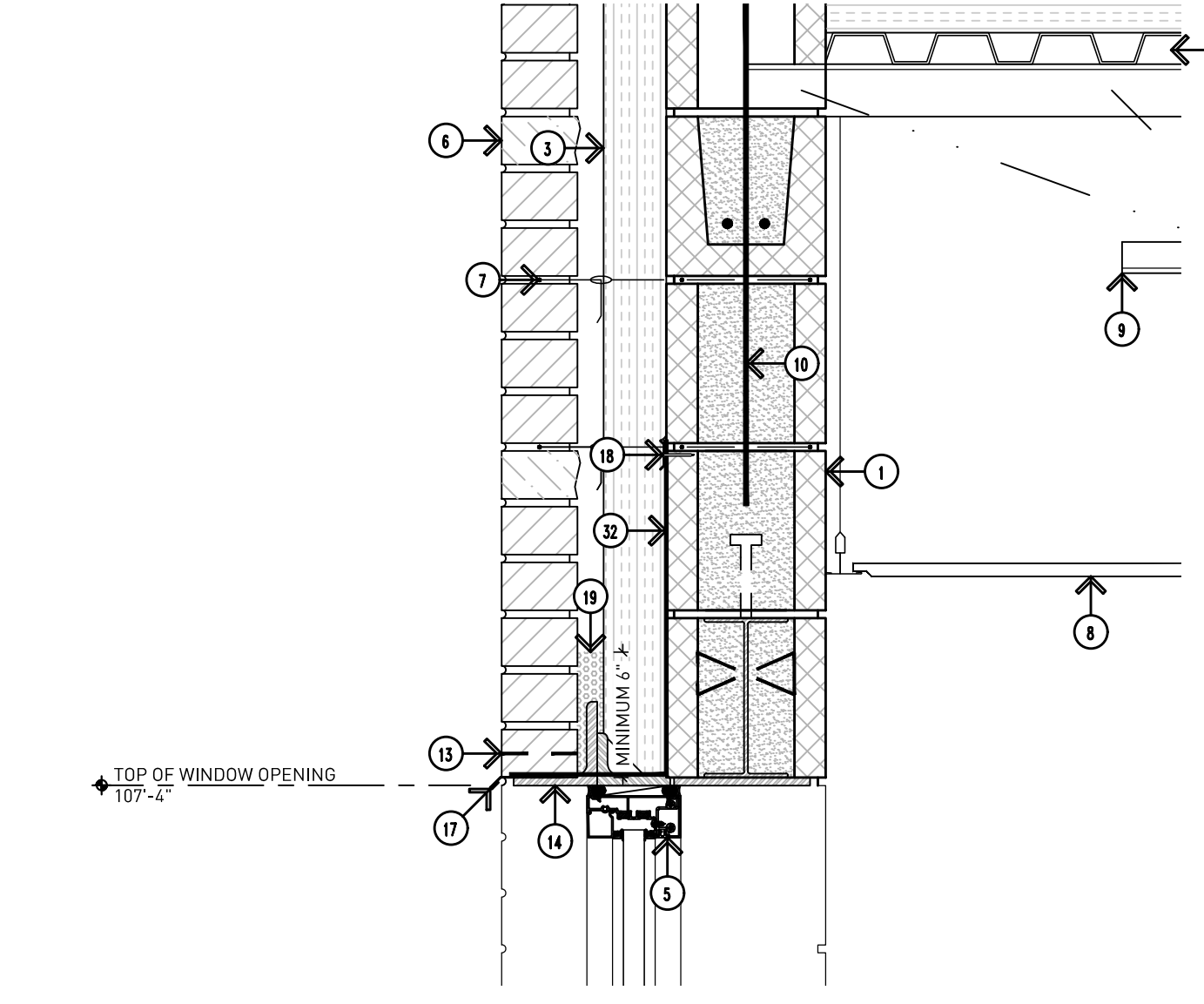
6 Corridor D Soffit Detail
Scale: 3"=1'-0"



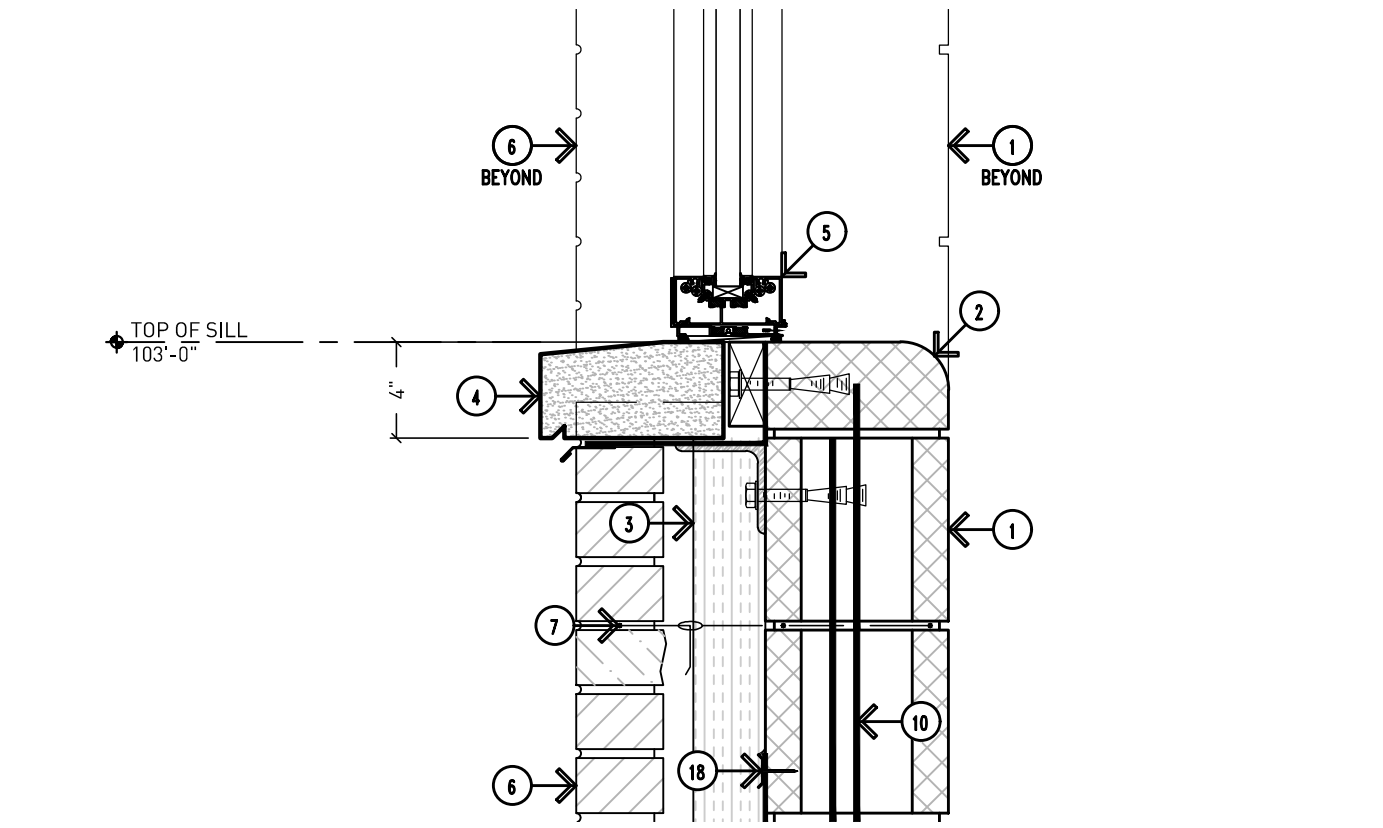
4 EPDM to Asphalt Shingle Expansion Joint Detail
Scale: 3"=1'-0"



3 Roof Expansion Joint Detail (a)
Scale: 3"=1'-0"



2 Typical Corridor Window Head Detail (Area B)
Scale: 1-1/2"=1'-0"



1 Typical Corridor Window Sill Detail (Area B)
Scale: 1-1/2"=1'-0"



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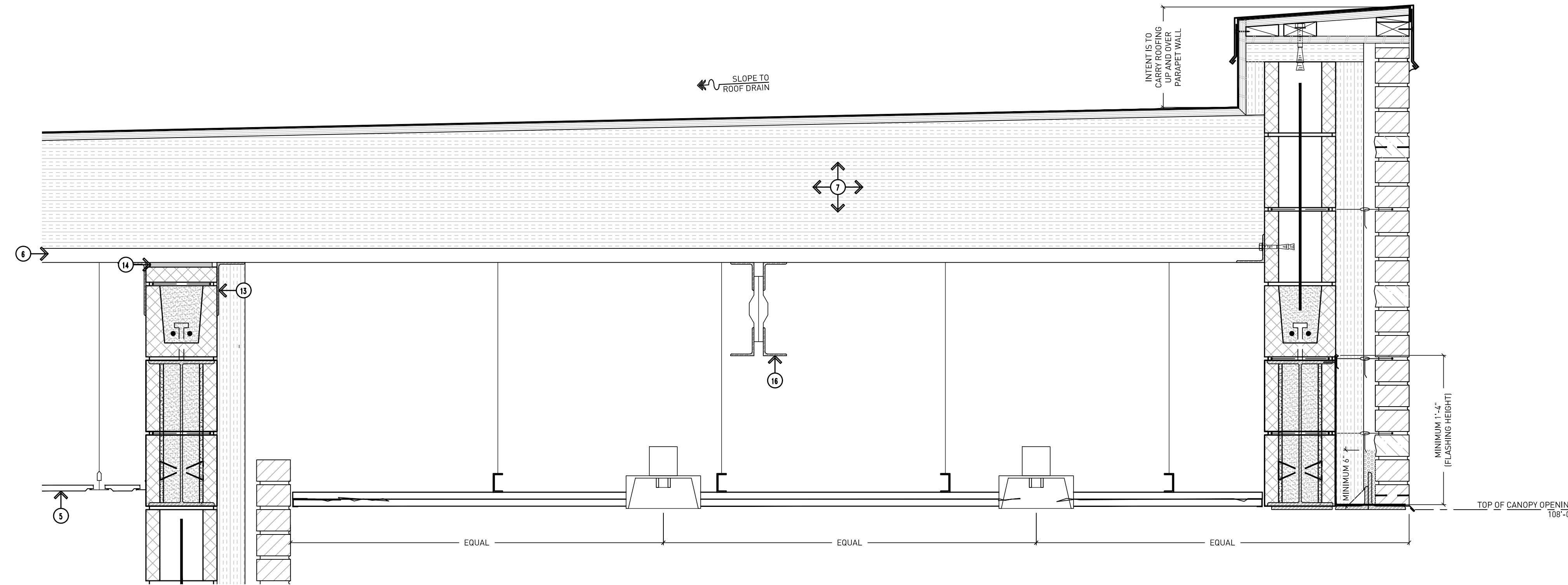
A9.11

GENERAL NOTES:

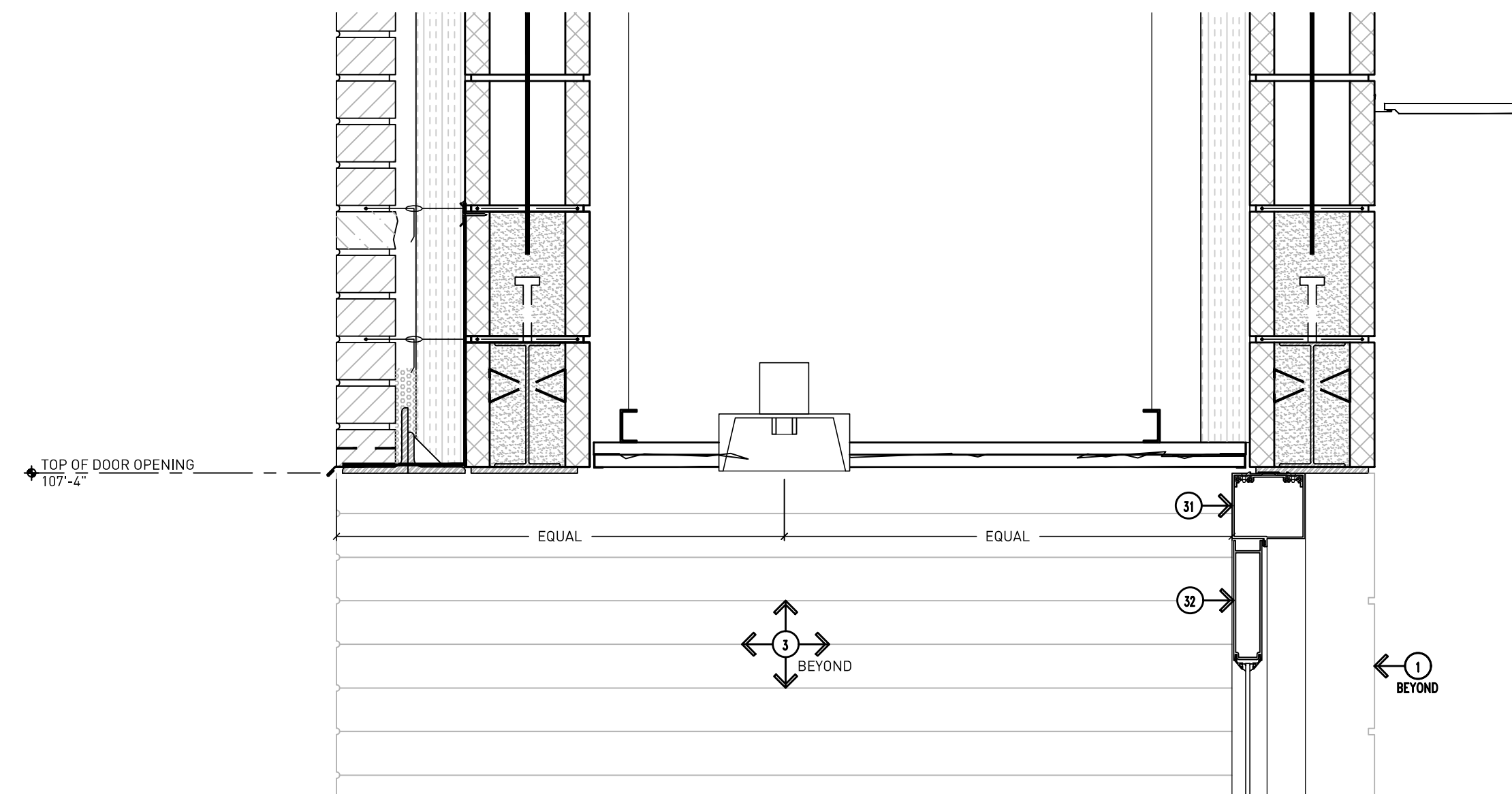
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. NOT ALL NOTES ARE APPLICABLE TO THIS SHEET.
- G3. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- G4. PROVIDE NON-COM WOOD BLOCKING BEHIND ALL MISCELLANEOUS TRIM LOCATIONS AND ALL OTHER ATTACHMENT LOCATIONS WHETHER PARTICULARLY SHOWN ON THE DOCUMENTS OR NOT.
- G5. ALL PREFINISHED METAL COPING TO BE COMPLETE WITH CONCEALED CLIP ANCHORS ON BOTH SIDING VISIBLE FASTENERS).
- G6. CARRY ROOFING UP AND OVER PARAPET CAP -- TYPICAL.
- G7. PROVIDE CONTINUOUS SPRAY-APPLIED VAPOR BARRIER COVERING FACE OF WALL AND UP AND OVER PARAPET WALL. TERMINATE WITH ROOFING PER MANUFACTURER'S REQUIREMENTS. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE ENTIRE BUILDING ENVELOPE AND INCLUDE ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
- G8. ALL FLEXIBLE MEMBRANE FLASHING TO BE SECURED TO SUBSTRATE WITH TERMINATION BAR AND SEALANT -- INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- G9. FILL BRICK CORES AND COLLAR JOINTS SOLID BELOW GRADE AND BELOW ALL FLASHINGS.
- G10. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- G11. PROVIDE MASONRY WEEP VENTS @ 32" O.C. HORIZONTALLY AT TOP AND BOTTOM OF WALL COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
- G12. 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.

DRAWING NOTES:

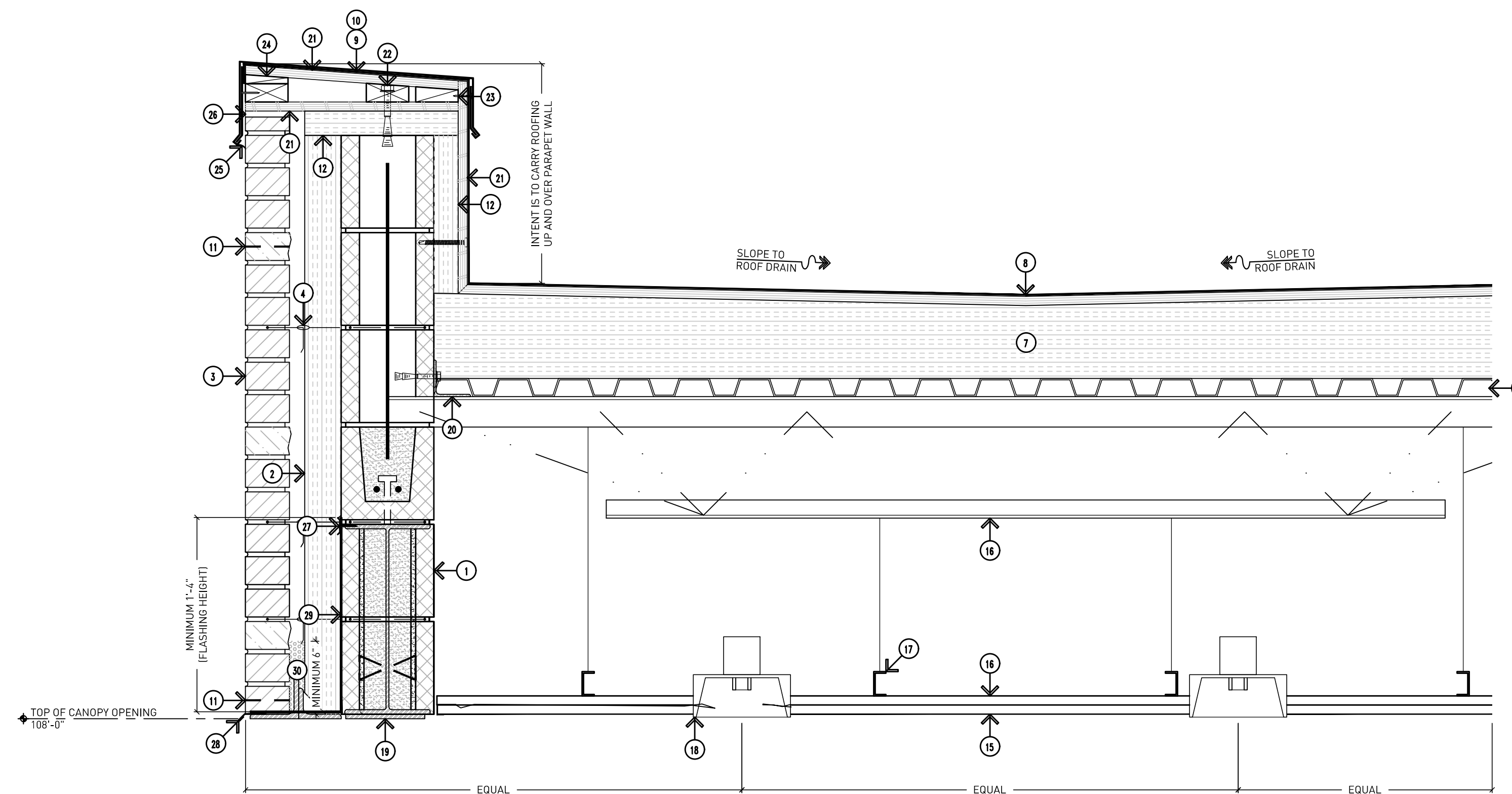
1. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
2. 3" SPRAY FOAM BUILDING INSULATION SYSTEM WITH INTEGRAL CONTINUOUS VAPOR BARRIER AND ACCESSORIES AS REQUIRED TO PROVIDE BARRIER FROM FOUNDATION TO ROOFING.
3. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
4. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
5. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
6. 1 1/2" GALVANIZED METAL ROOF DECK.
7. RIGID ROOF INSULATION BOARD (MINIMUM 6" THICKNESS -- TWO LAYERS AND COVERBOARD).
8. FULLY ADHERED SINGLE-PLY EPDM ROOFING -- CARRY UP AND OVER FACE OF PARAPET WALL.
9. PARAPET WALL BLOCKING -- REFER TO DETAIL 9/A9.14 FOR FURTHER INFORMATION.
10. PREFINISHED METAL PARAPET CAP FLASHING WITH CONCEALED CLIP ANCHORS BOTH SIDES (NO EXPOSED FASTENERS).
11. 3/4" x 1 1/2" PLASTIC WEEP VENT WITH INSECT SCREEN.
12. 2" RIGID BUILDING INSULATION.
13. STEEL ANGLE WALL BRACE -- REFER TO STRUCTURAL FOR FURTHER INFORMATION.
14. FILL VOID WITH COMPRESSIBLE FILLER MATERIAL FOR ALLOW FOR MINIMUM 1" ROOF DEFLECTION.
15. 1/2" CEMENT PLASTER SOFFIT ON GALVANIZED METAL LATH -- PAINT (COLOR AS SELECTED FROM MANUFACTURER'S STANDARD COLOR RANGE).
16. 1/2" CROSS FURRING SPACED PER MANUFACTURER'S RECOMMENDATIONS.
17. 2" O.C. MAIN RUNNER ATTACHED TO BUILDING STRUCTURE WITH GALVANIZED TIE WIRE (SPACED PER MANUFACTURER'S RECOMMENDATIONS).
18. RECESSED LIGHT FIXTURE -- REFER TO ELECTRICAL DRAWINGS.
19. STEEL LINTEL WITH PLATE, PAINT -- REFER TO STRUCTURAL DRAWINGS.
20. STEEL ANGLE DECK SUPPORT -- REFER TO STRUCTURAL DRAWINGS.
21. 3/4" PRESERVATIVE TREATED PLYWOOD SHEATHING.
22. PRESERVATIVE TREATED WOOD NAILER WITH EXPANSION ANCHORS.
23. 2"x4" PRESERVATIVE TREATED WOOD NAILER.
24. 1"x4" PRESERVATIVE TREATED WOOD NAILER--CUT TO FIT PROFILE (CONTRACTOR OPTION TO UTILIZE CARLISLE SECUREDDGE 200 COPING INSTEAD).
25. SEALANT (WITH FOAM BACKER ROD AS NECESSARY TO SUIT CONDITIONS).
26. COMPRESSIBLE FILLER.
27. TERMINATION BAR WITH TOP SEALANT--INSTALL PER MANUFACTURER'S REQUIREMENTS.
28. STAINLESS STEEL METAL DRIP WITH HEMMED EDGE.
29. FULLY ADHERED FLEXIBLE MEMBRANE FLASHING WITH END DAMS.
30. PEA STONE DRAINAGE MATERIAL (MINIMUM 6" HEIGHT).
31. DOOR FRAME - REFER TO DOOR SCHEDULE.
32. DOOR - REFER TO DOOR SCHEDULE.



3 Canopy Detail - East/West (Area A)
 Scale: 1-1/2"=1'-0"
 REFER TO 1/A9.12 FOR TYPICAL NOTES



2 Ext. Recessed Door Head Detail - East/West (Area B)
 Scale: 1-1/2"=1'-0"
 REFER TO 1/A9.12 FOR TYPICAL NOTES



1 Canopy Detail - North/South (Area A)
 Scale: 1-1/2"=1'-0"



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GENERAL NOTES:

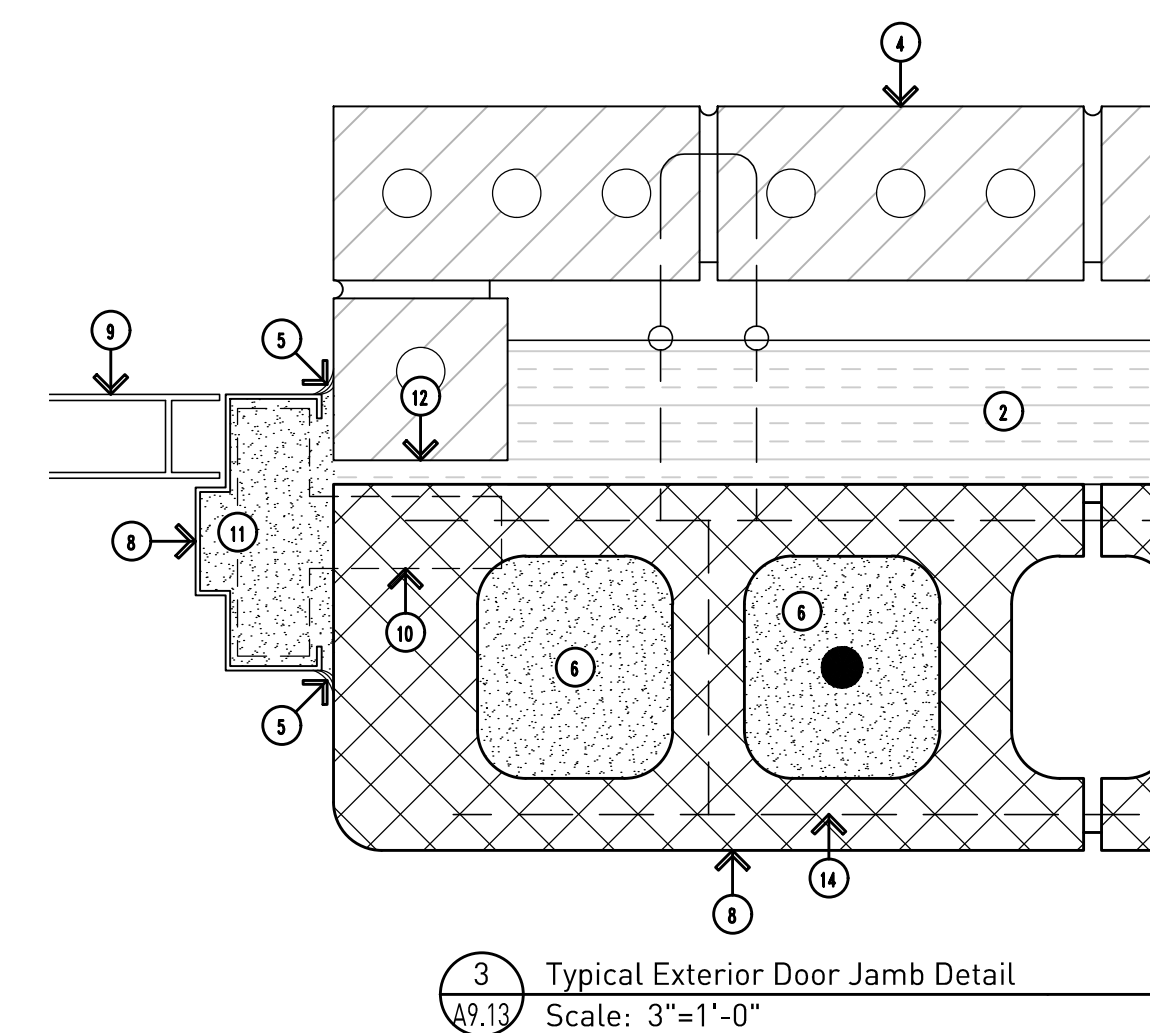
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. NOT ALL NOTES ARE APPLICABLE TO THIS SHEET.
- G3. PROVIDE MASONRY ANCHORS @ 16" O.C. VERTICALLY AND HORIZONTALLY.
- G4. PROVIDE NON-COM WOOD BLOCKING BEHIND ALL MISCELLANEOUS TRIM LOCATIONS AND ALL OTHER ATTACHMENT LOCATIONS WHETHER PARTICULARLY SHOWN ON THE DOCUMENTS OR NOT.
- G5. ALL PREFINISHED METAL COPING TO BE COMPLETE WITH CONCEALED CLIP ANCHORS ON BOTH SIDES (NO VISIBLE FASTENERS).
- G6. CARRY ROOFING UP AND OVER PARAPET CAP -- TYPICAL.
- G7. PROVIDE CONTINUOUS SPRAY-APPLIED VAPOR BARRIER COVERING FACE OF WALL AND UP AND OVER PARAPET WALL. TERMINATE WITH ROOFING PER MANUFACTURER'S REQUIREMENTS. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE ENTIRE BUILDING ENVELOPE AND INCLUDE ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
- G8. ALL FLEXIBLE MEMBRANE FLASHING TO BE SECURED TO SUBSTRATE WITH TERMINATION BAR AND SEALANT -- INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- G9. FILL BRICK CORES AND COLLAR JOINTS SOLID BELOW GRADE AND BELOW ALL FLASHINGS.
- G10. PROVIDE STAINLESS STEEL DRIP WITH HEMMED EDGE ABOVE ALL EXTERIOR WINDOW AND DOOR OPENINGS.
- G11. PROVIDE MASONRY WEEP VENTS @ 32" O.C. HORIZONTALLY AT TOP AND BOTTOM OF WALL COMPLETE WITH 3/8" x 1-1/2" PLASTIC WEEP VENT AND FLEXIBLE MEMBRANE FLASHING MIN. 16" UP WALL.
- G12. 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.

EXISTING TO REMAIN NOTES:

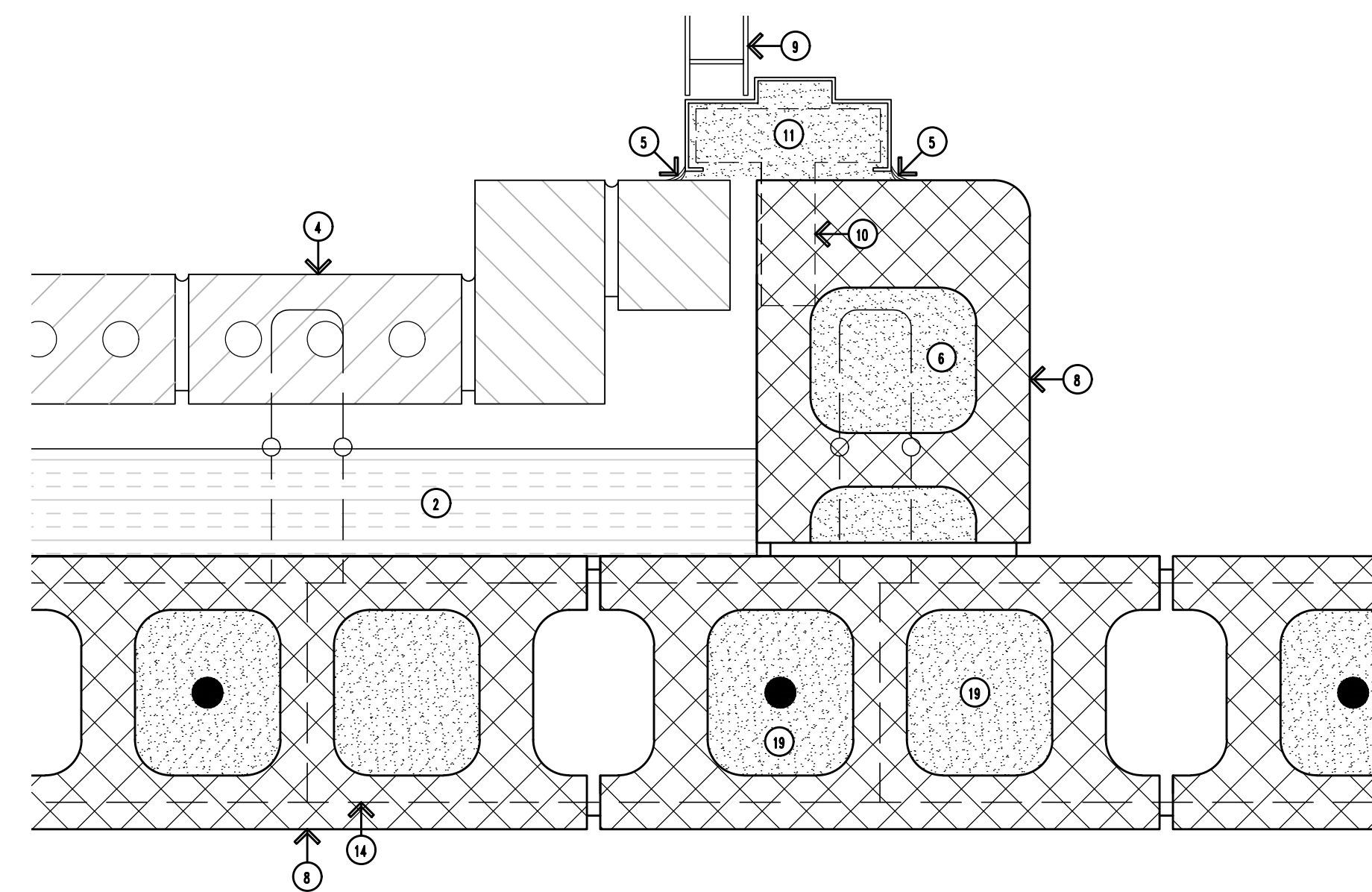
- E1. BRICK VENEER - EXACT CONDITIONS UNKNOWN.

DRAWING NOTES:

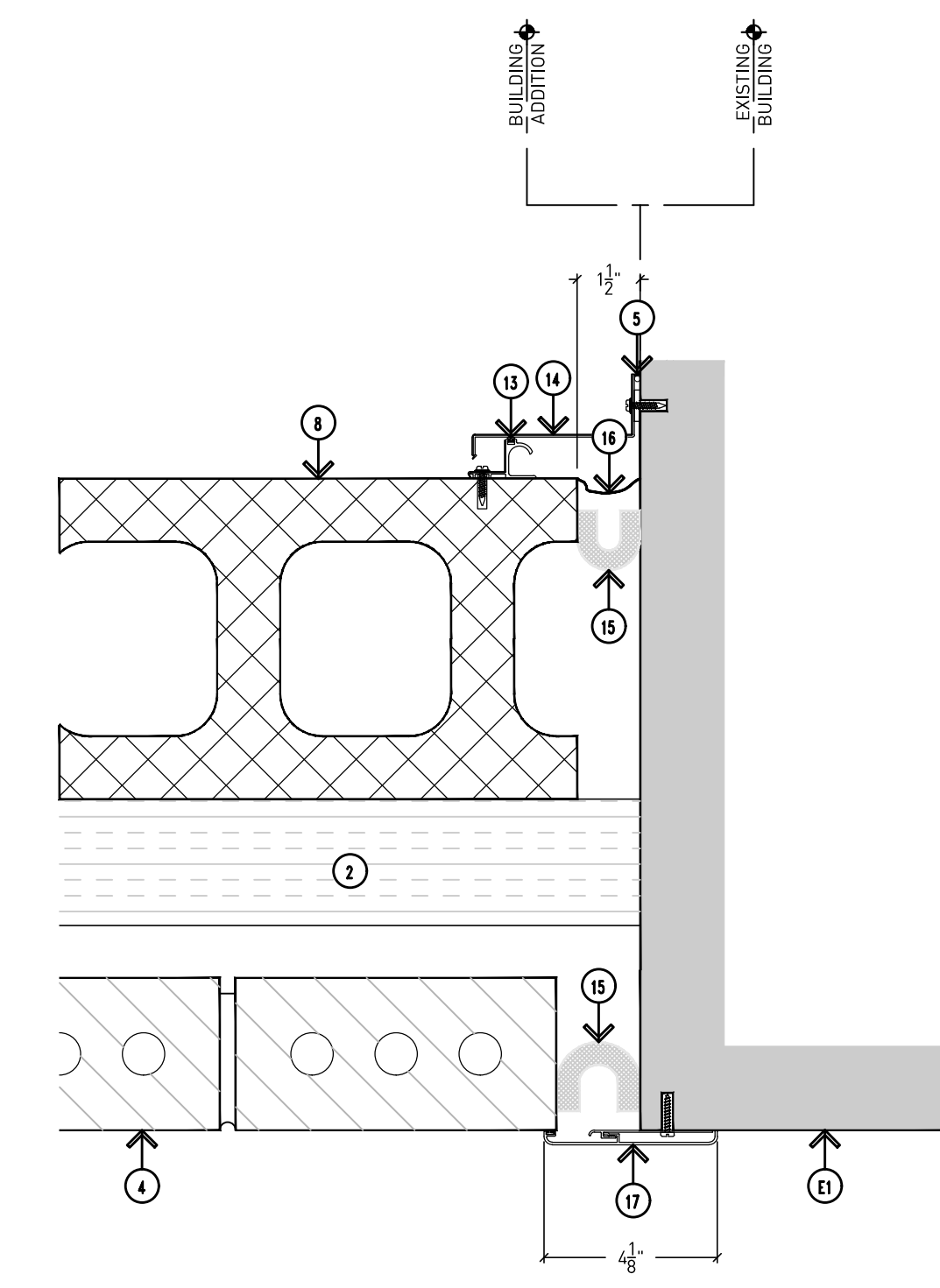
1. BULLNOSE CMU MASONRY BLOCK.
2. 3" SPRAY FOAM BUILDING INSULATION SYSTEM WITH INTEGRAL CONTINUOUS VAPOR BARRIER AND ACCESSORIES AS REQUIRED TO PROVIDE BARRIER FROM FOUNDATION TO ROOFING.
3. LIMESTONE WINDOW SILL AND PROFILE TO MATCH EXISTING.
4. 4" BRICK VENEER WITH ADJUSTABLE BRICK TIES @ 16" O.C. VERTICALLY AND HORIZONTALLY (PROVIDE LENGTH AS REQUIRED DUE TO WALL CAVITY SIZE).
5. SEALANT (WITH FOAM BACKER ROD AS NECESSARY TO SUIT CONDITIONS).
6. GROUT CMU CORES SOLID BELOW FLASHING AT WHERE BELOW GRADE.
7. 2"x6" PRESERVATIVE TREATED WOOD BLOCKING.
8. DOOR FRAME - REFER TO DOOR SCHEDULE.
9. DOOR - REFER TO DOOR SCHEDULE.
10. JAMB ANCHOR TO SUIT CONDITIONS.
11. GROUT FILLED DOOR FRAME.
12. 1/2" RIGID INSULATION BOARD.
13. ISOLATION GASKET.
14. HEAVY DUTY PREFINISHED ALUMINUM COVER PLATE.
15. 2-HOUR FIRE BARRIER.
16. MOISTURE BARRIER MEMBRANE ATTACHED TO BUILDING STRUCTURE.
17. HEAVY DUTY ALUMINUM COVER PLATE.
18. STOREFRONT FRAMING AND GLAZING -- REFER TO WINDOW SCHEDULE AND DETAILS.



3 Typical Exterior Door Jamb Detail
A9.13 Scale: 3"=1'-0"

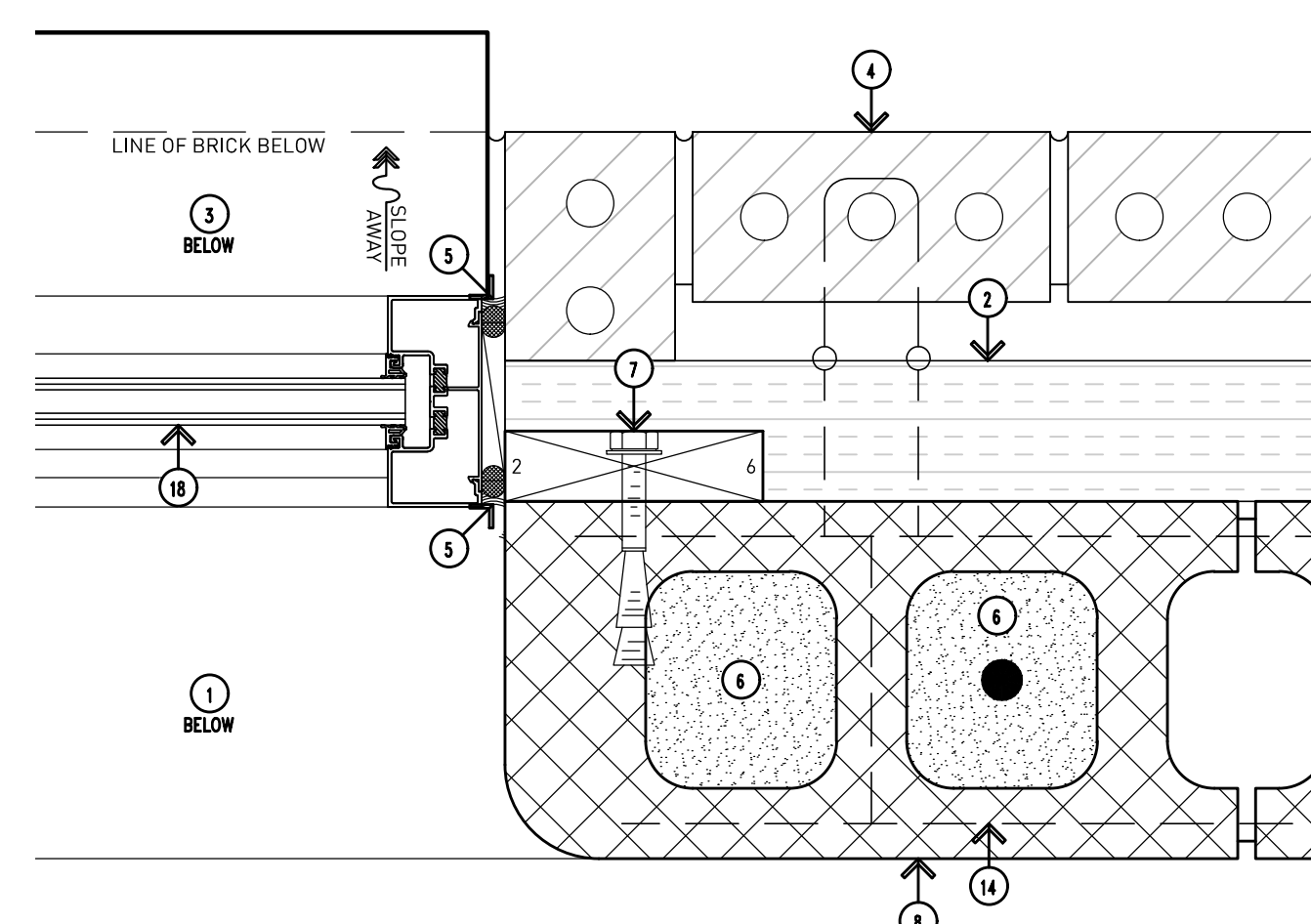


5 Typical Exterior Door Jamb Detail @ Recess
A9.13 Scale: 3"=1'-0"

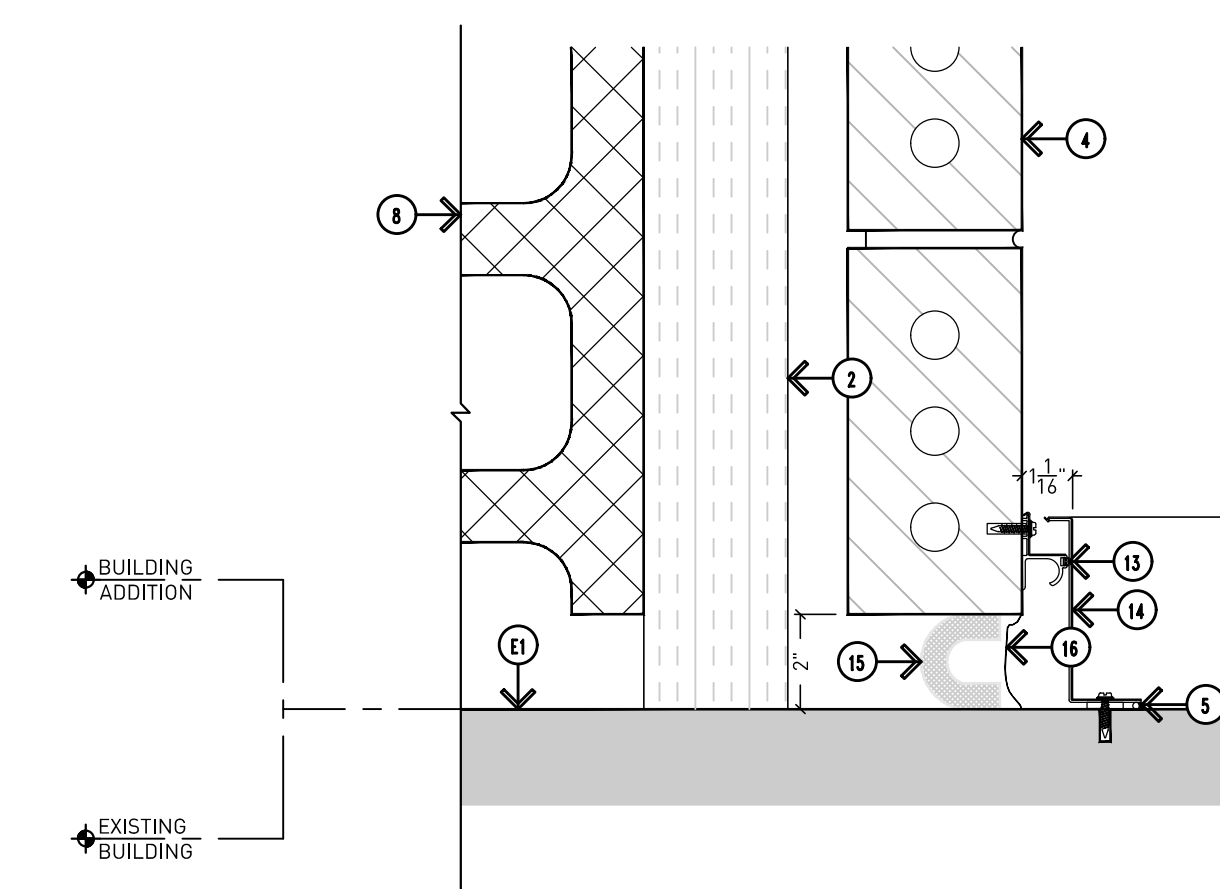


2 Wall Expansion Joint (b)
A9.13 Scale: 3"=1'-0"

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



4 Typical Window Jamb Detail
A9.13 Scale: 3"=1'-0"



1 Wall Expansion Joint Detail (a)
A9.13 Scale: 3"=1'-0"

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



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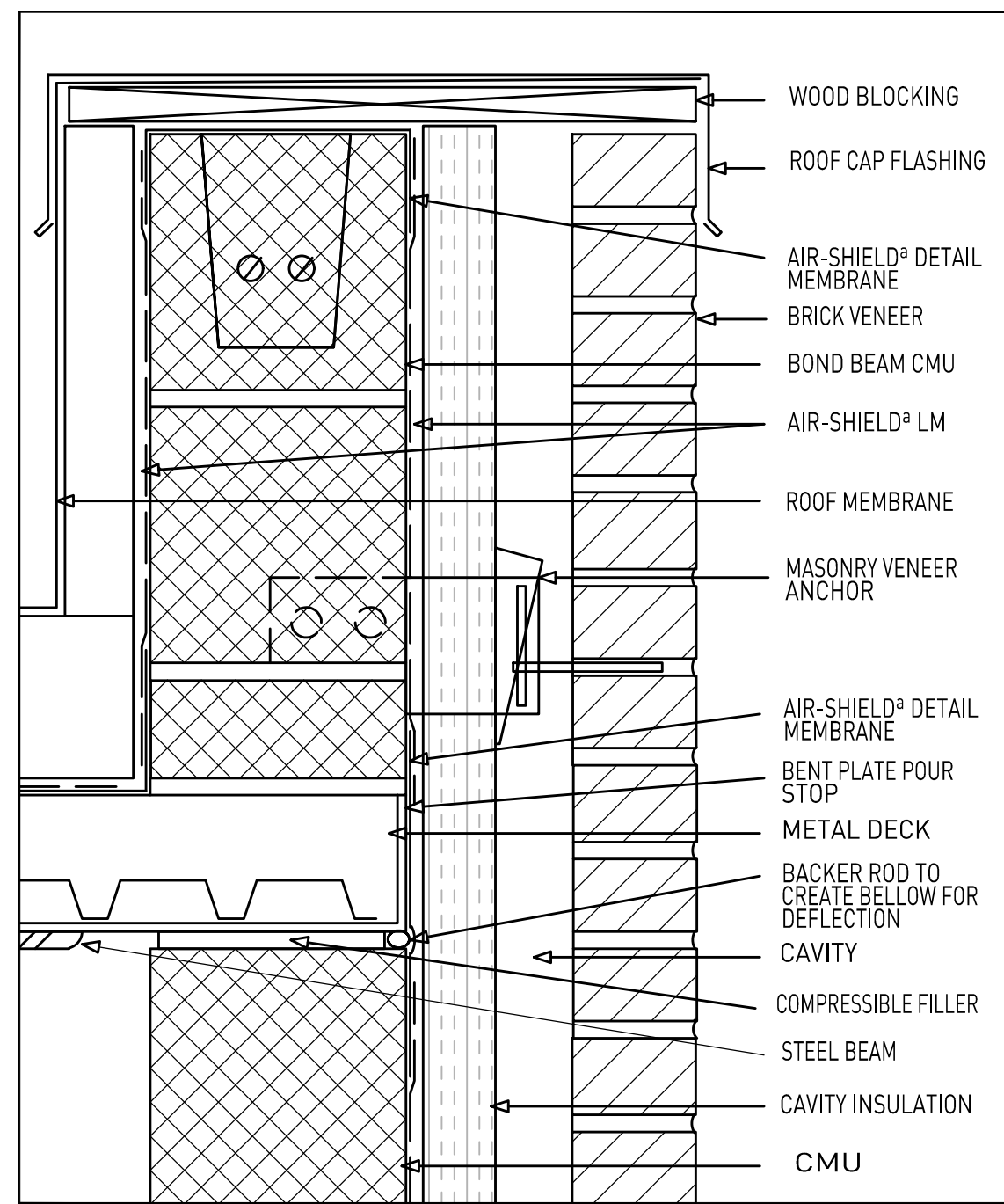
Exterior Details



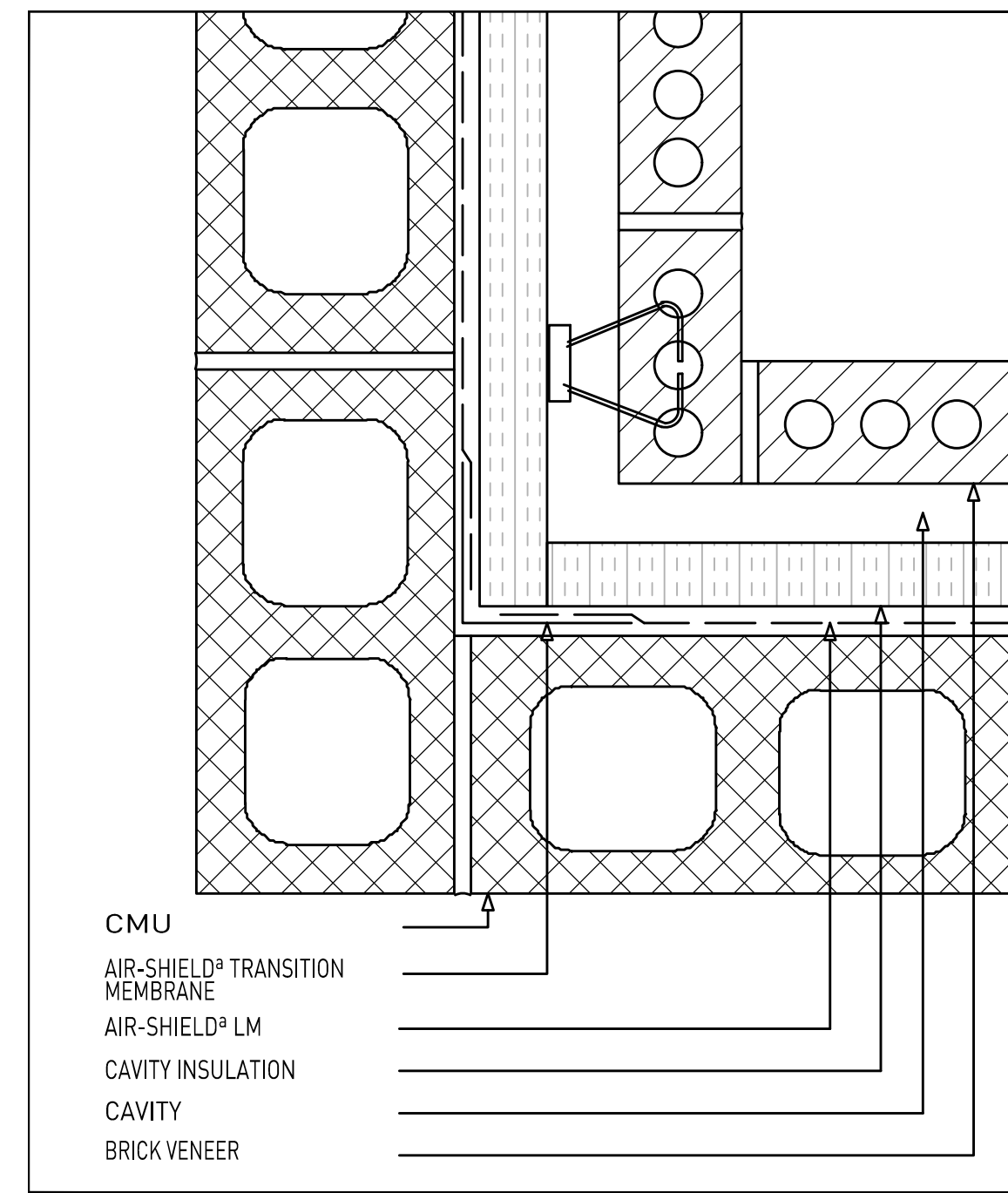
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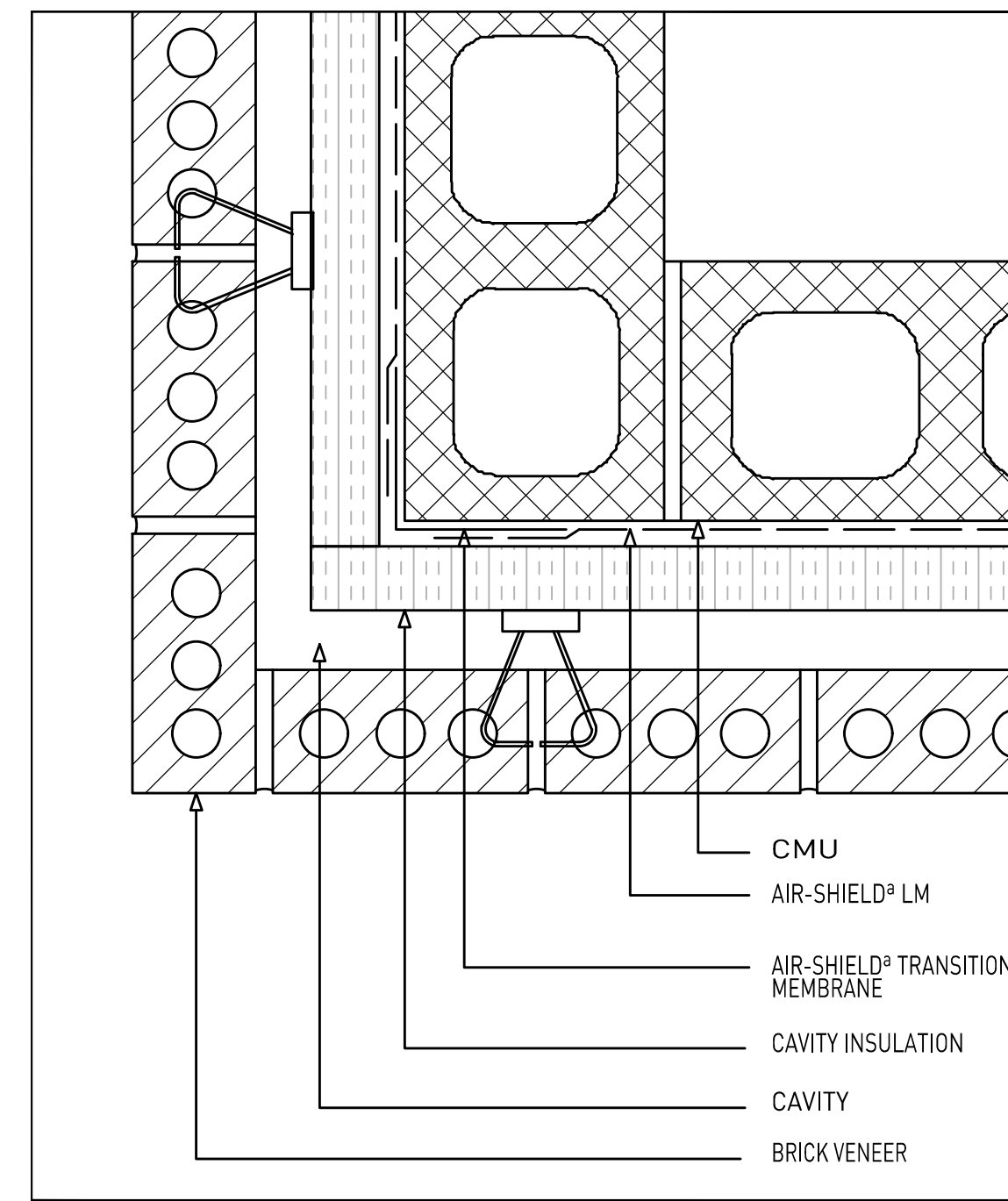
A9.13



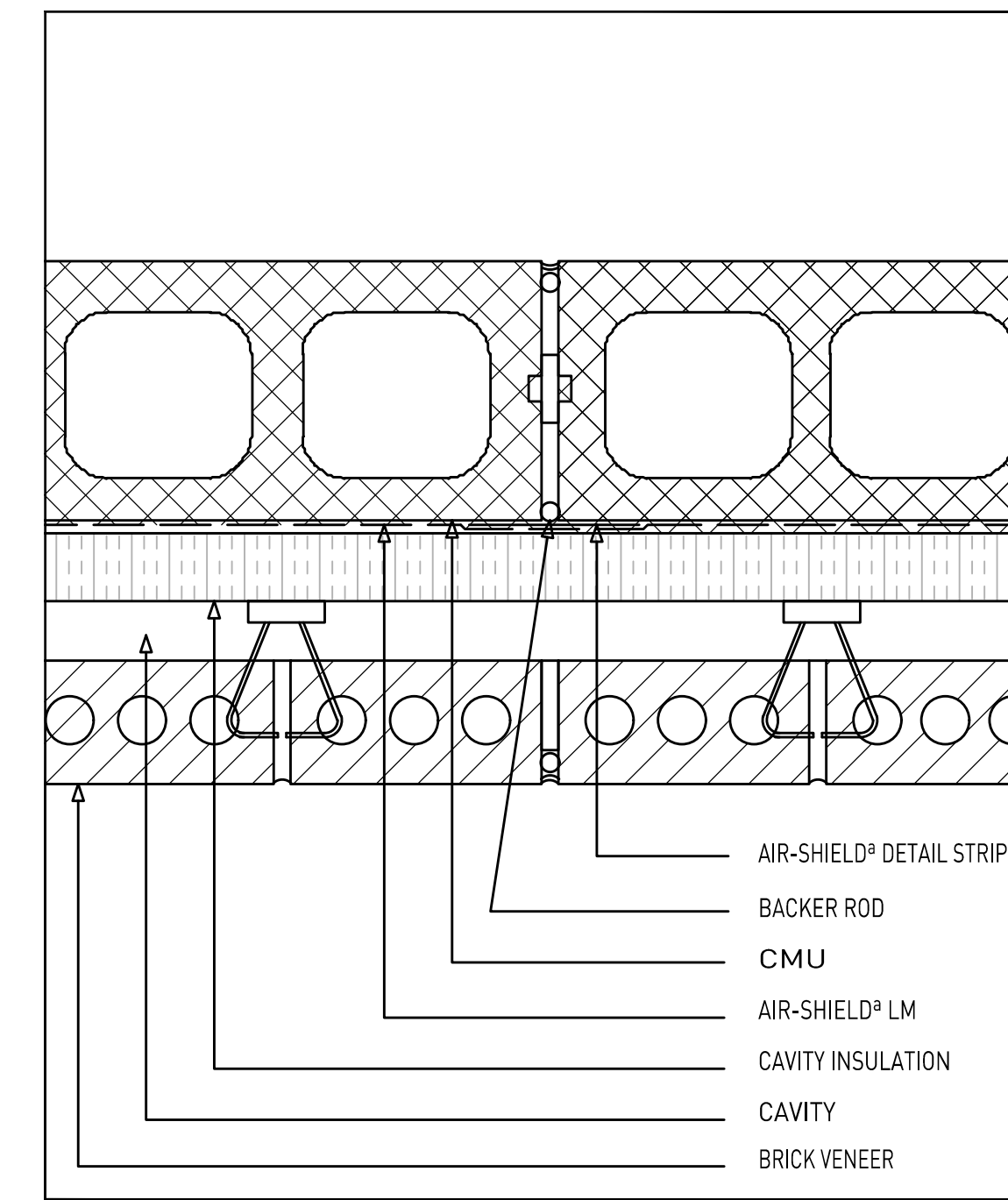
9 Reference - Roof Detail
Scale: NTS



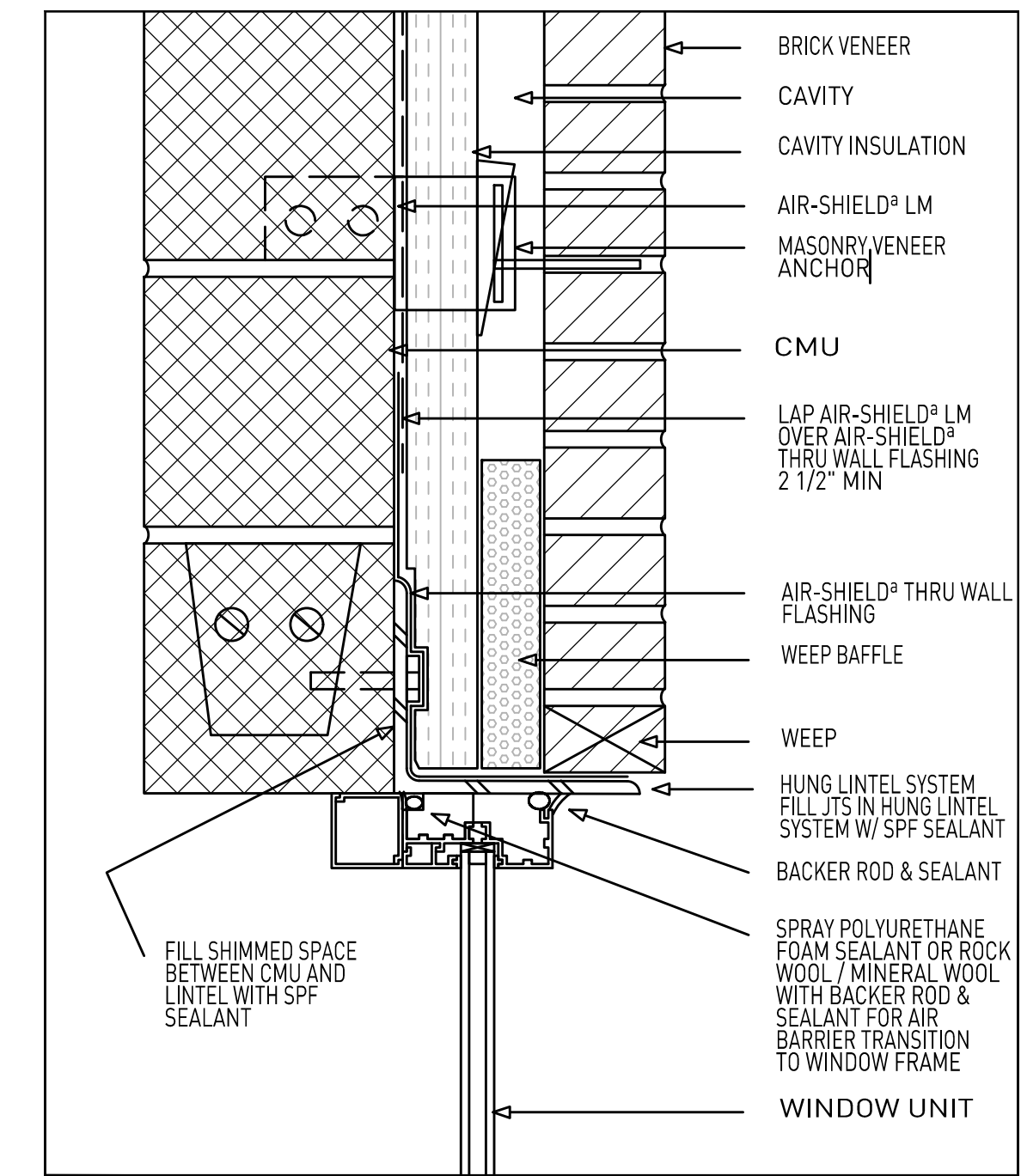
8 Reference - Internal Corner Detail
Scale: NTS



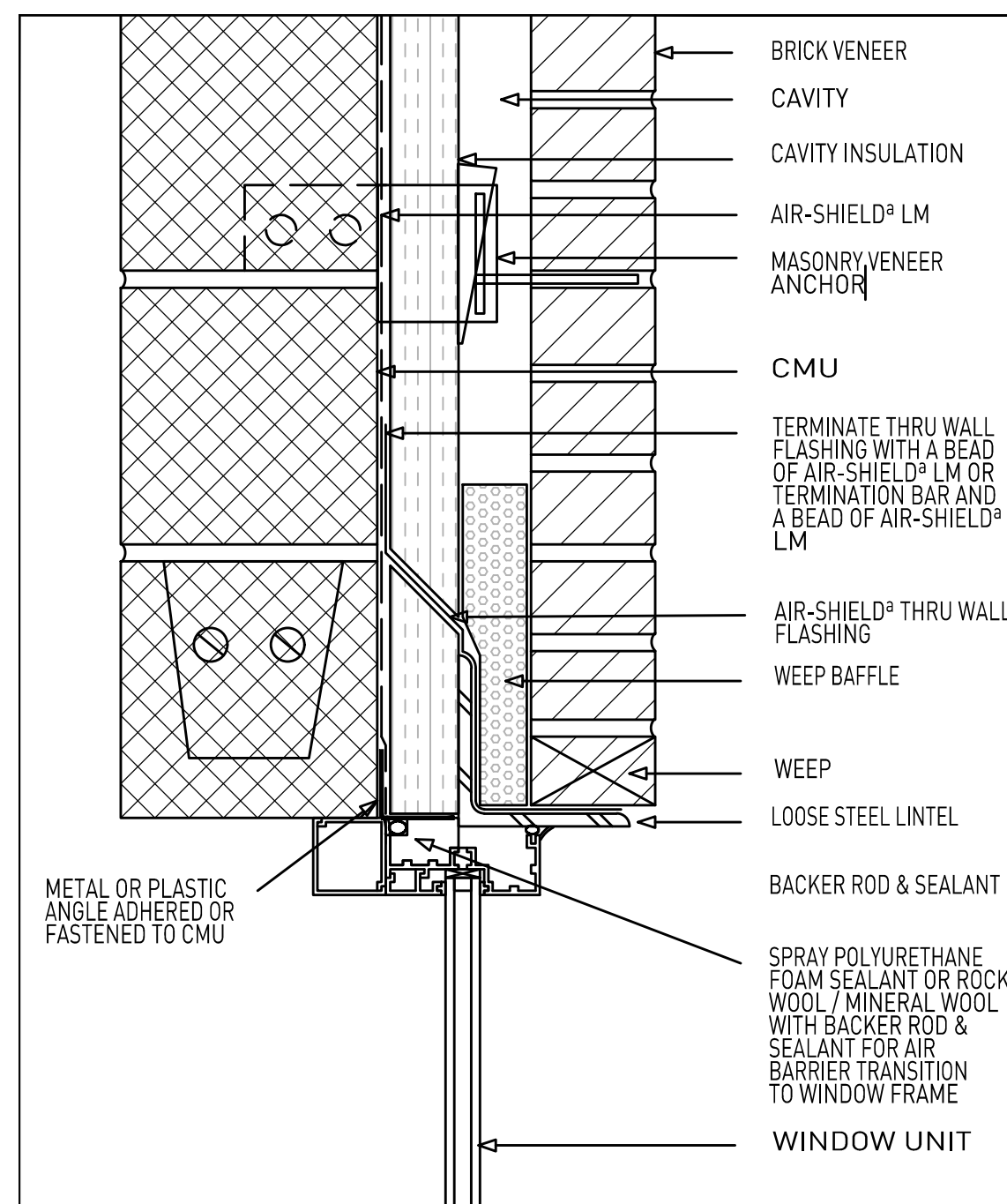
7 Reference - External Corner Detail
Scale: NTS



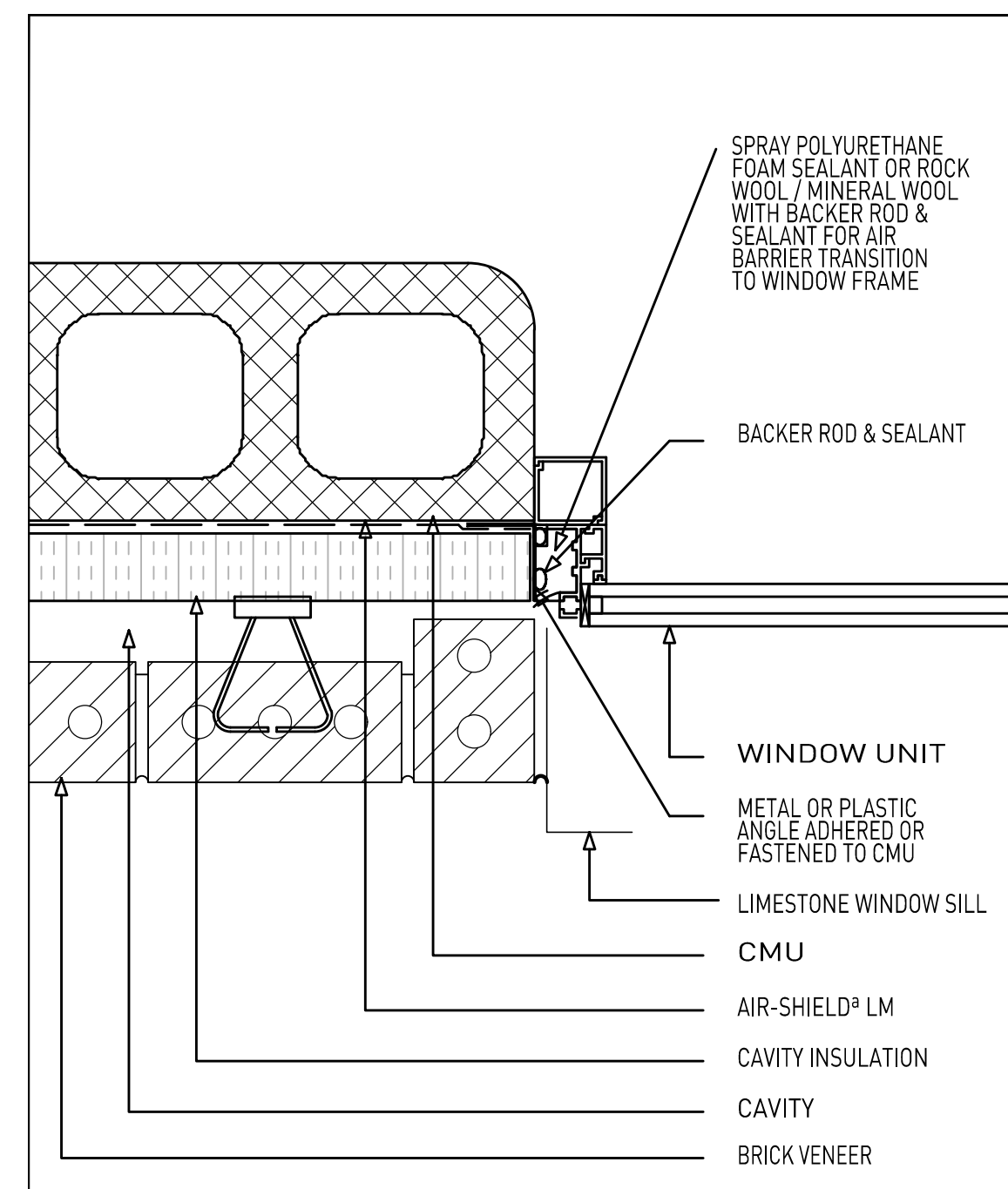
6 Reference - Control Joint Detail
Scale: NTS



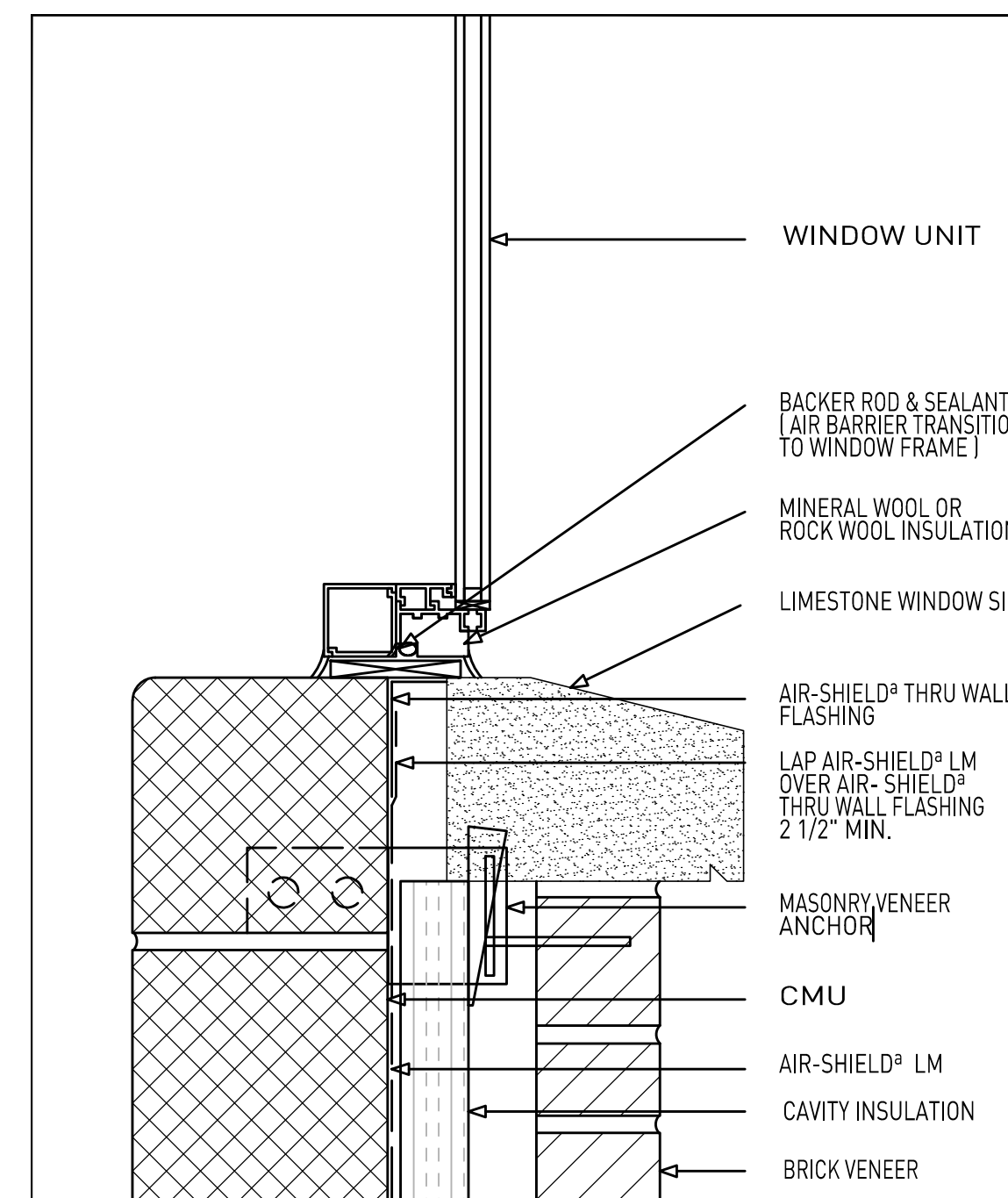
5 Reference - Window Head B Detail
Scale: NTS



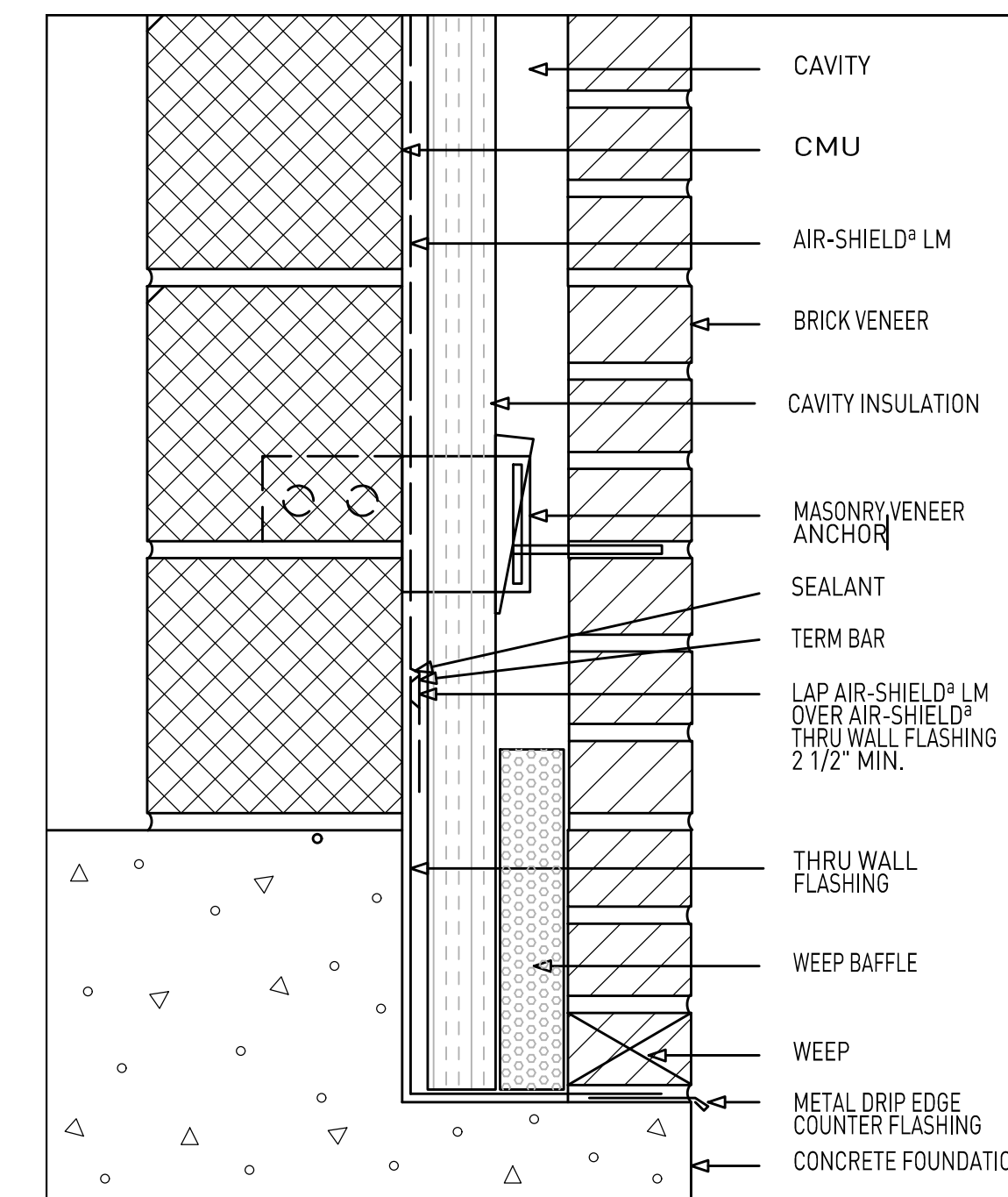
4 Reference - Window Head A Detail
Scale: NTS



3 Reference - Window Jamb Detail
Scale: NTS



2 Reference - Window Sill Detail
Scale: NTS



1 Reference - Wall Base Detail
Scale: NTS



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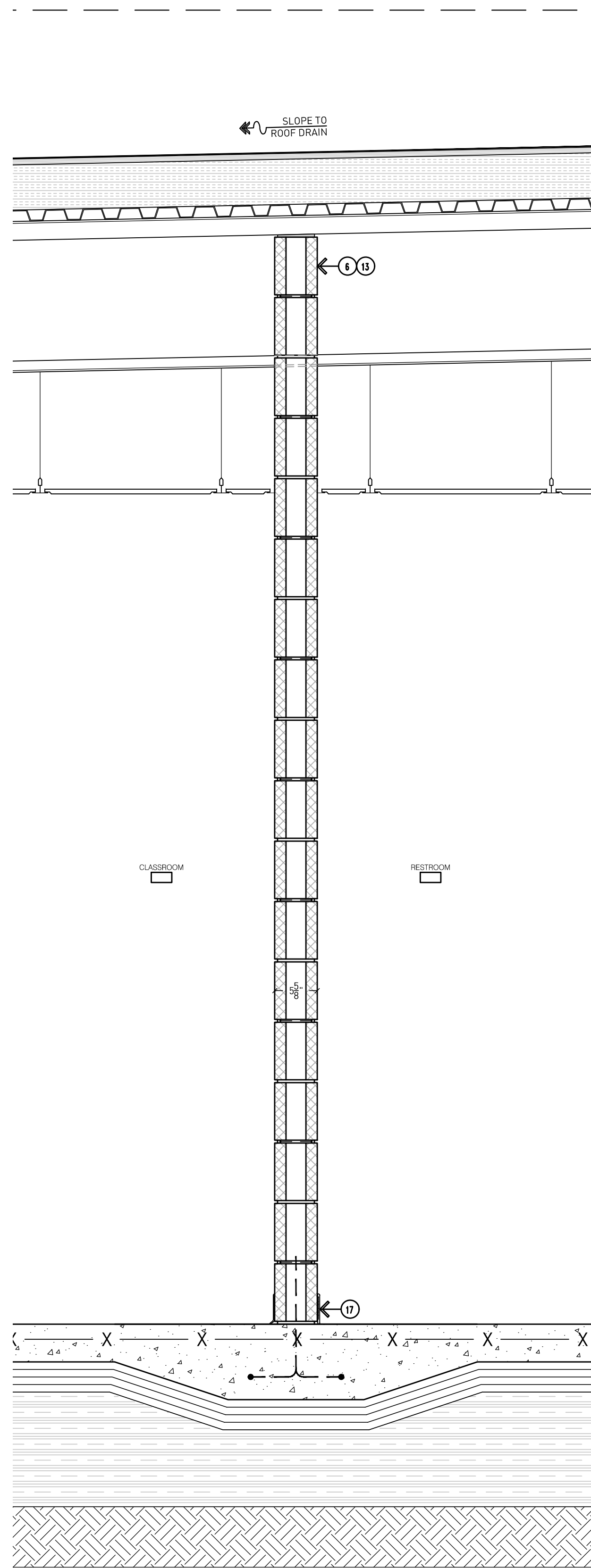
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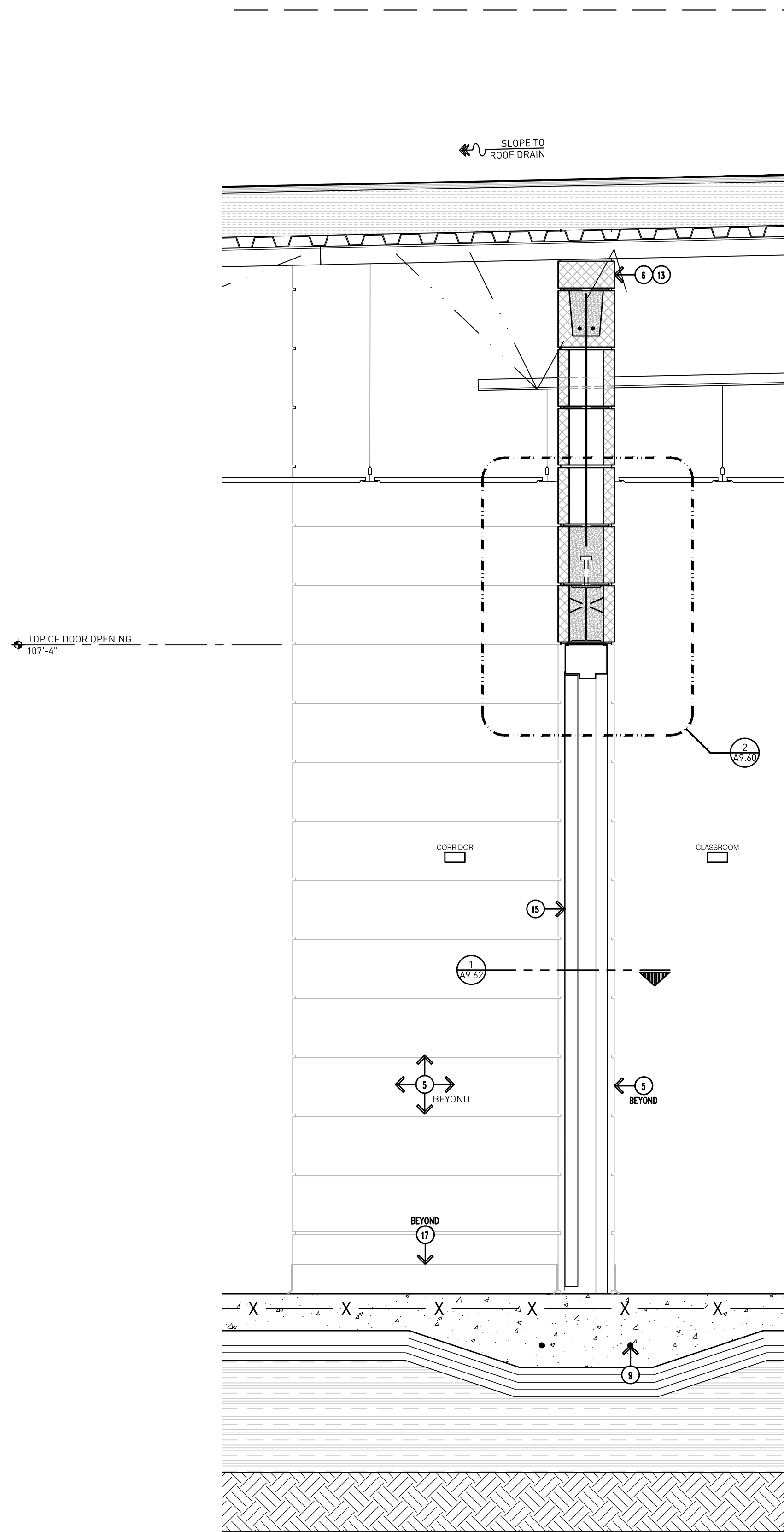
A9.14

GENERAL NOTES:

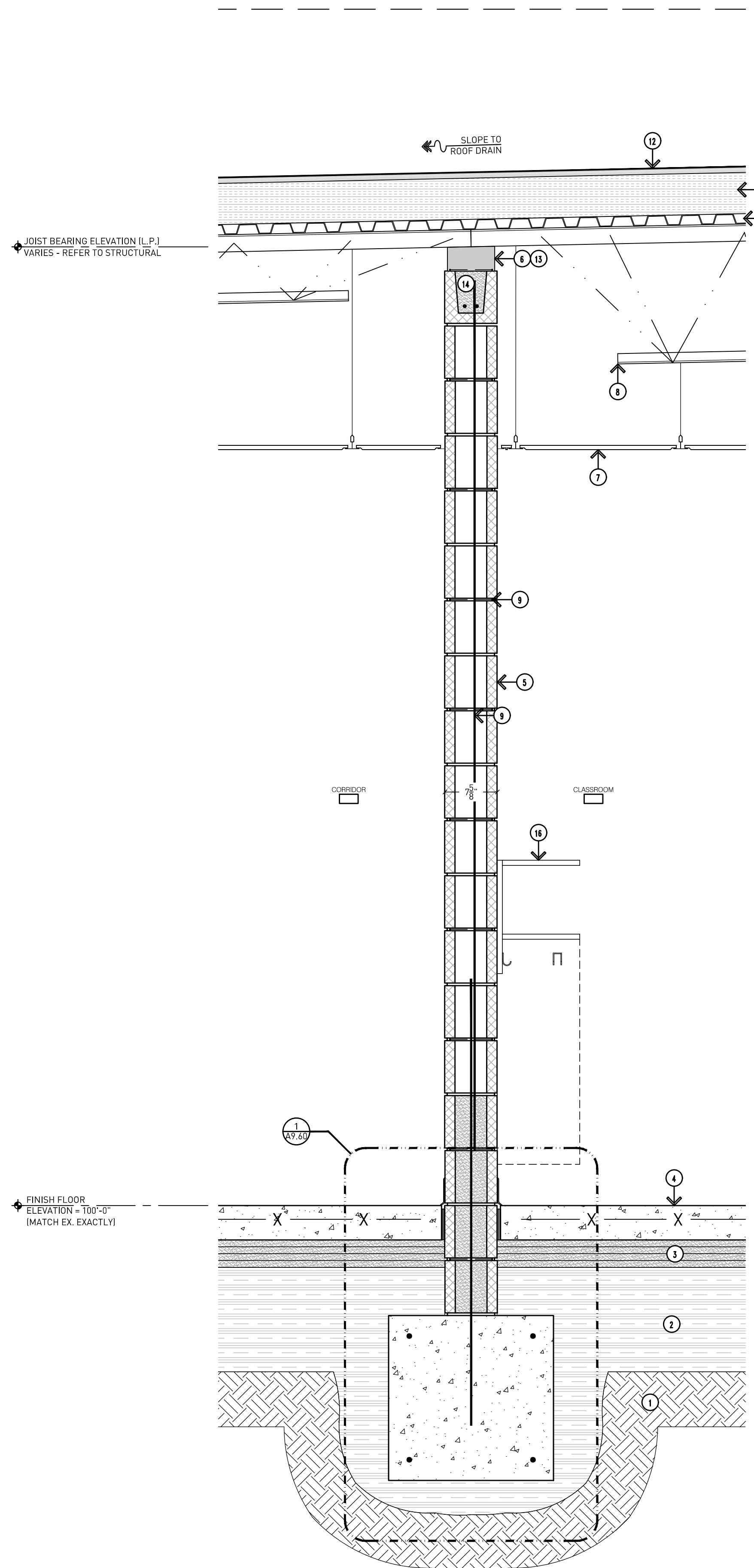
- G1. DETAILS ISSUED FOR GENERAL CONSTRUCTION REFERENCE ONLY.
- G2. DETAILS ARE NOT TO BE SCALED.



3
A9.50
Int. Wall Section C - North/South (Area B)
Scale: 1"=1'-0"
REFER TO DRAWING 1/A9.50 FOR TYPICAL NOTES



2
A9.50
Int. Wall Section B - North/South (Area B)
Scale: 1"=1'-0"
REFER TO DRAWING 1/A9.50 FOR TYPICAL NOTES



1
A9.50
Int. Wall Section A - North/South (Area B)
Scale: 1"=1'-0"

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. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS WHERE NEW BUILDING IS TYING INTO THE EXISTING.

EXISTING TO REMAIN NOTES:

- E1. CONCRETE FLOOR SLAB - EXACT CONDITIONS UNKNOWN.
- E2. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E3. BRICK VENEER - EXACT CONDITIONS UNKNOWN.
- E4. ROOF, ROOF STRUCTURE, AND ROOF DECK - EXACT CONDITIONS UNKNOWN.
- E5. STRUCTURAL FOOTING - EXACT CONDITIONS UNKNOWN.
- E6. UNDISTURBED SOIL - EXACT CONDITIONS UNKNOWN.
- E7. LIMESTONE - EXACT CONDITIONS UNKNOWN.

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. CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.
- 5. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
- 6. FILL VOID WITH COMPRESSIBLE FILLER AND FIRE RESISTIVE COATING (1-HOUR) MATERIAL TO ALLOW FOR MINIMUM 1" ROOF DEFLECTION.
- 7. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
- 8. STRUCTURAL STEEL ROOF FRAMING -- REFER TO STRUCTURAL DRAWINGS.
- 9. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
- 10. 1 1/2" GALVANIZED METAL ROOF DECK.
- 11. RIGID ROOF INSULATION BOARD (MINIMUM 6" THICKNESS -- TWO LAYERS AND COVERBOARD).
- 12. FULL ADHERED SINGLE-PLY EPDM ROOF.
- 13. CORRIDOR WALLS TO BE BLOCKED IN TIGHT FOR REQUIRED WALL RATING AND TO RESIST THE PASSAGE OF SMOKE.
- 14. GROUT CMU SOLID.
- 15. DOOR -- REFER TO DOOR SCHEDULE.
- 16. CUBBIES -- REFER TO SPECIFICATIONS AND INTERIOR ELEVATIONS.
- 17. WALL BASE--REFER TO FINISH SCHEDULE.



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GENERAL NOTES:

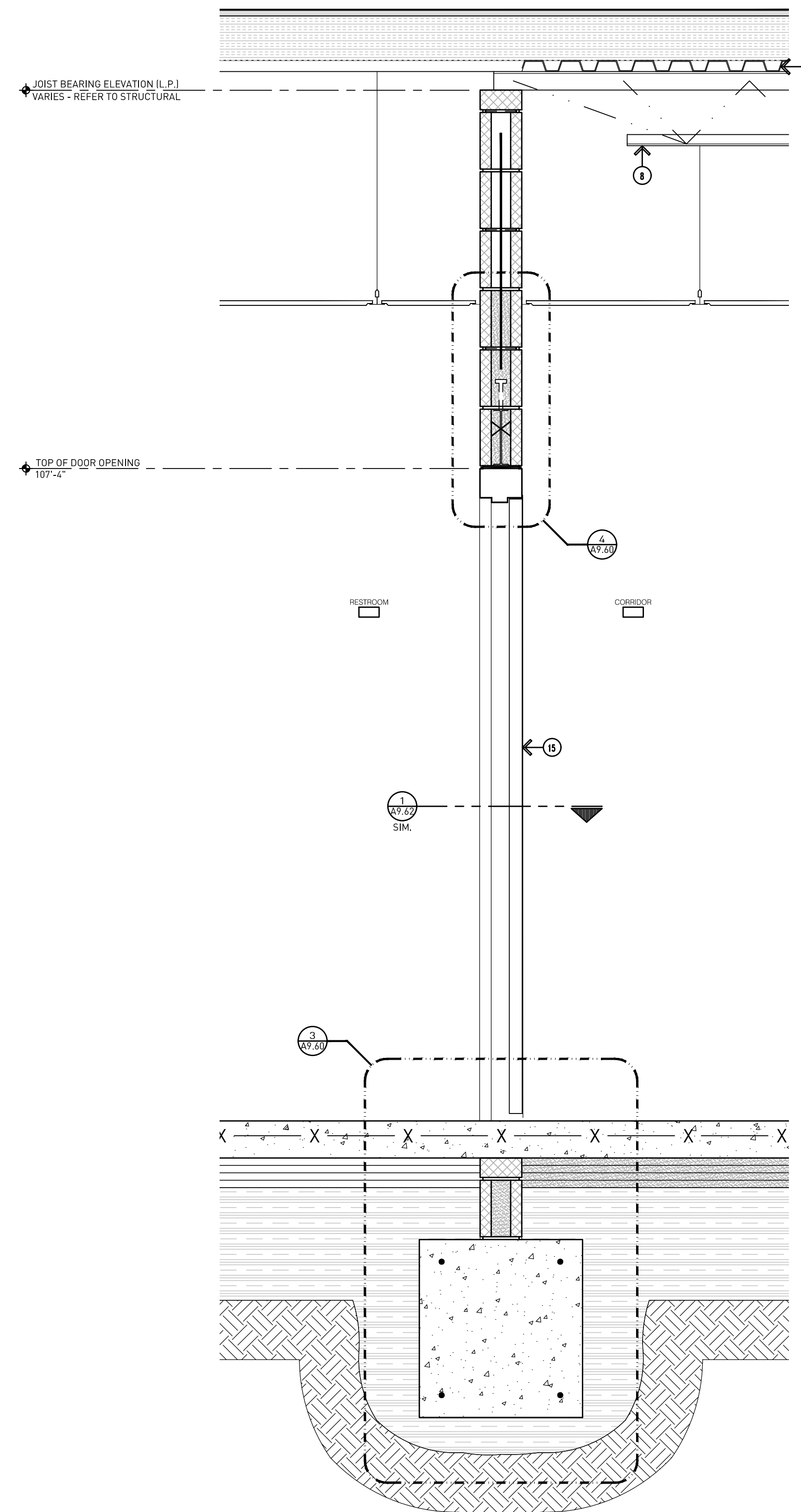
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. NOT ALL NOTES ARE APPLICABLE TO THIS SHEET.
- G3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS WHERE NEW BUILDING IS TYING INTO THE EXISTING.

EXISTING TO REMAIN NOTES:

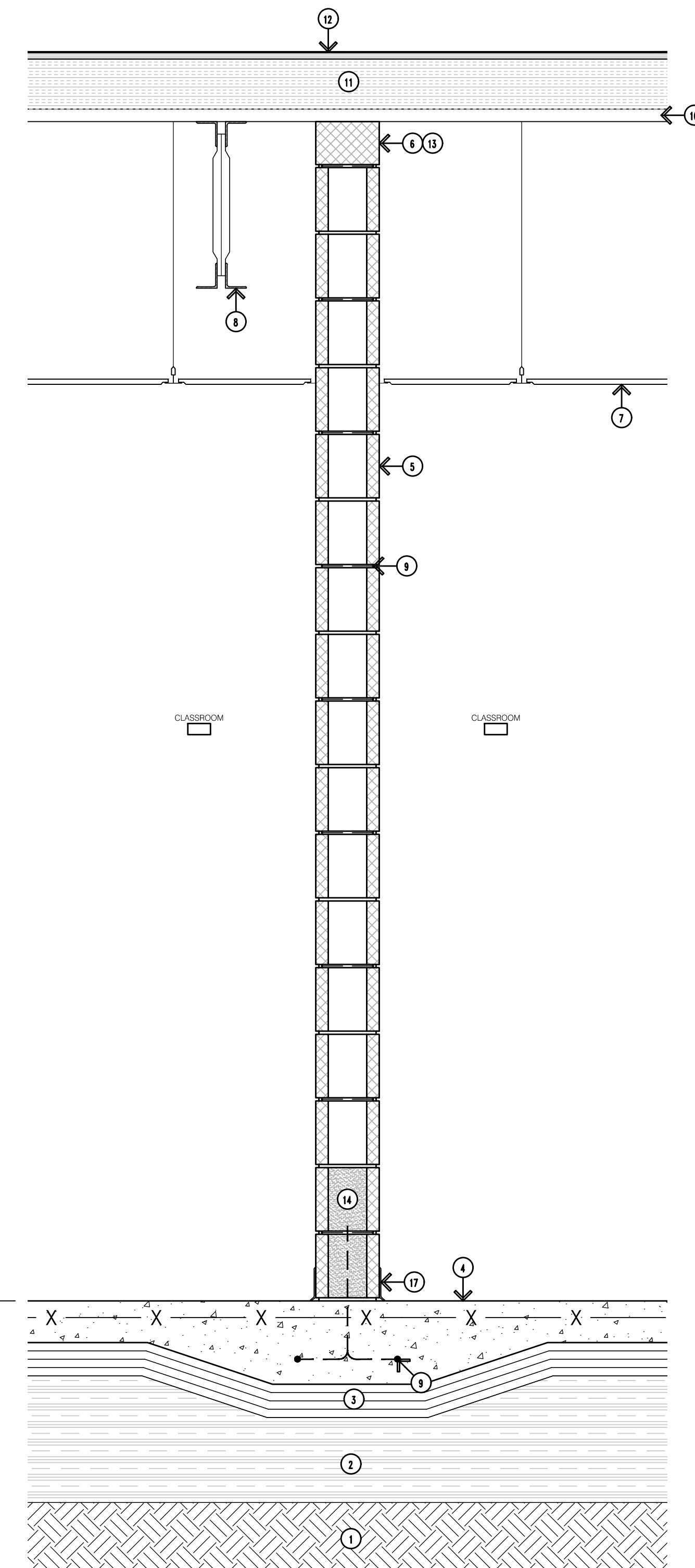
- E1. CONCRETE FLOOR SLAB - EXACT CONDITIONS UNKNOWN.
- E2. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E3. BRICK VENEER - EXACT CONDITIONS UNKNOWN.
- E4. ROOF, ROOF STRUCTURE, AND ROOF DECK - EXACT CONDITIONS UNKNOWN.
- E5. STRUCTURAL FOOTING - EXACT CONDITIONS UNKNOWN.
- E6. UNDISTURBED SOIL - EXACT CONDITIONS UNKNOWN.
- E7. LIMESTONE - EXACT CONDITIONS UNKNOWN.

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. CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.
- 5. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
- 6. FILL VOID WITH COMPRESSIBLE FILLER AND FIRE RESISTIVE COATING (1-HOUR) MATERIAL TO ALLOW FOR MINIMUM 1" ROOF DEFLECTION.
- 7. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
- 8. STRUCTURAL STEEL ROOF FRAMING -- REFER TO STRUCTURAL DRAWINGS.
- 9. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
- 10. 1 1/2" GALVANIZED METAL ROOF DECK.
- 11. RIGID ROOF INSULATION BOARD (MINIMUM 6" THICKNESS -- TWO LAYERS AND COVERBOARD).
- 12. FULL ADHERED SINGLE-PLY EPDM ROOF.
- 13. CORRIDOR WALLS TO BE BLOCKED IN TIGHT FOR REQUIRED WALL RATING AND TO RESIST THE PASSAGE OF SMOKE.
- 14. GROUT CMU SOLID.
- 15. DOOR -- REFER TO DOOR SCHEDULE
- 16. CUBBIES -- REFER TO SPECIFICATIONS AND INTERIOR ELEVATIONS.
- 17. WALL BASE--REFER TO FINISH SCHEDULE.



2 Int. Wall Section E - North/South (Area B)
 A9.51 Scale: 1"=1'-0"
 REFER TO DRAWING 1/A9.51 FOR TYPICAL NOTES



1 Int. Wall Section D - North/South (Area B)
 A9.51 Scale: 1"=1'-0"



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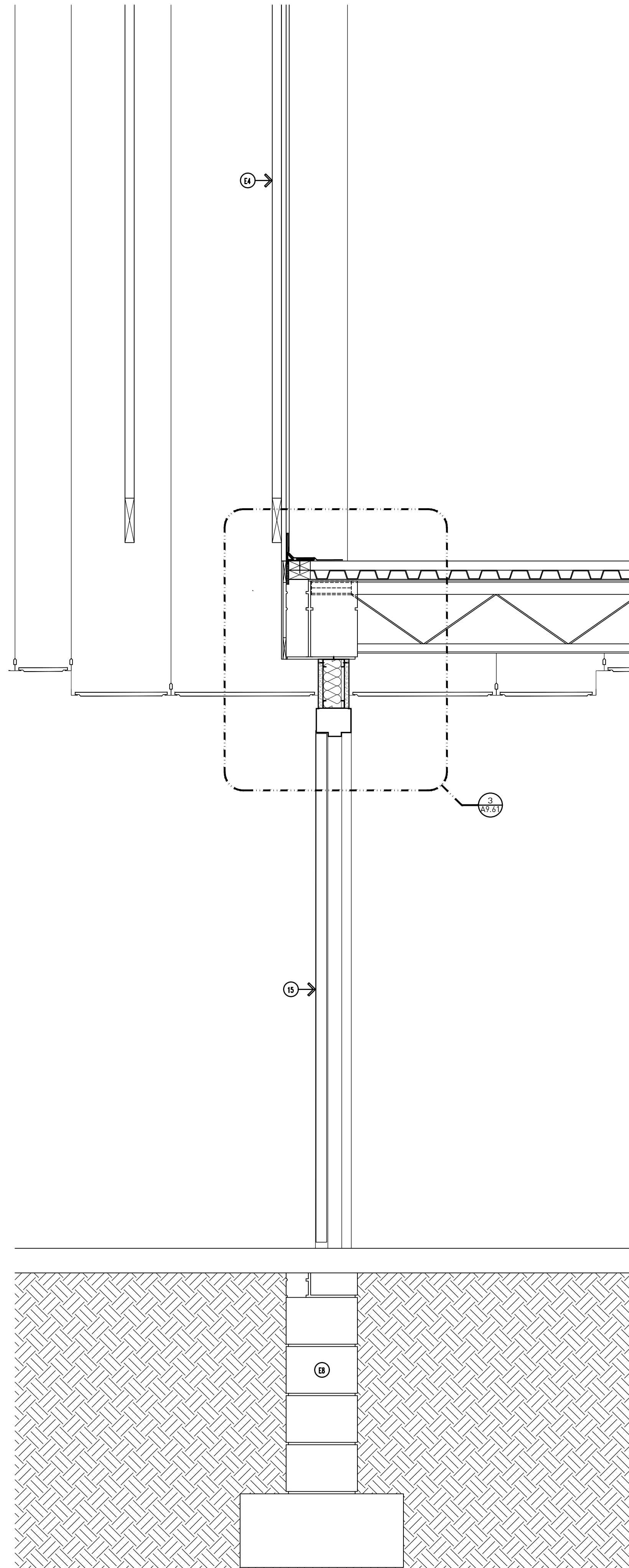
Interior Wall Sections



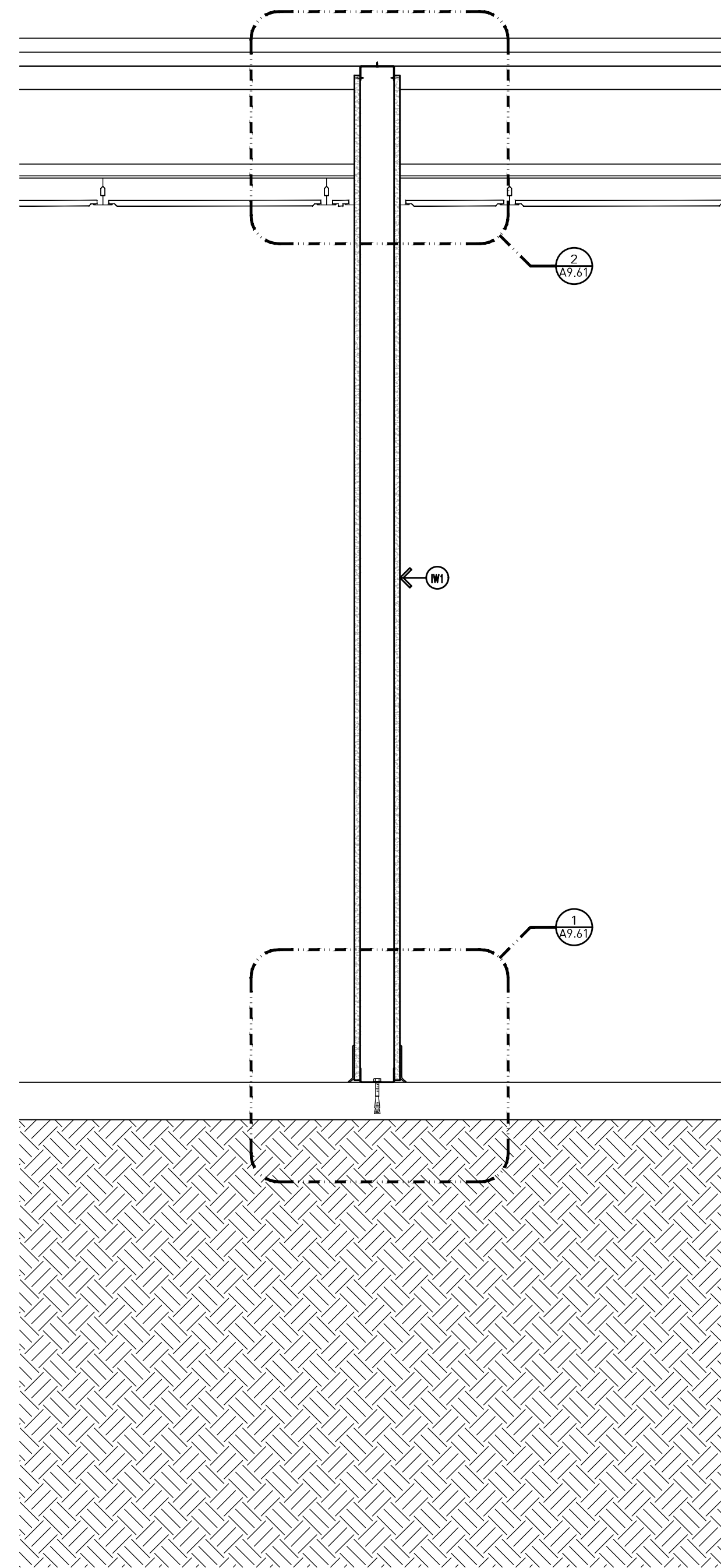
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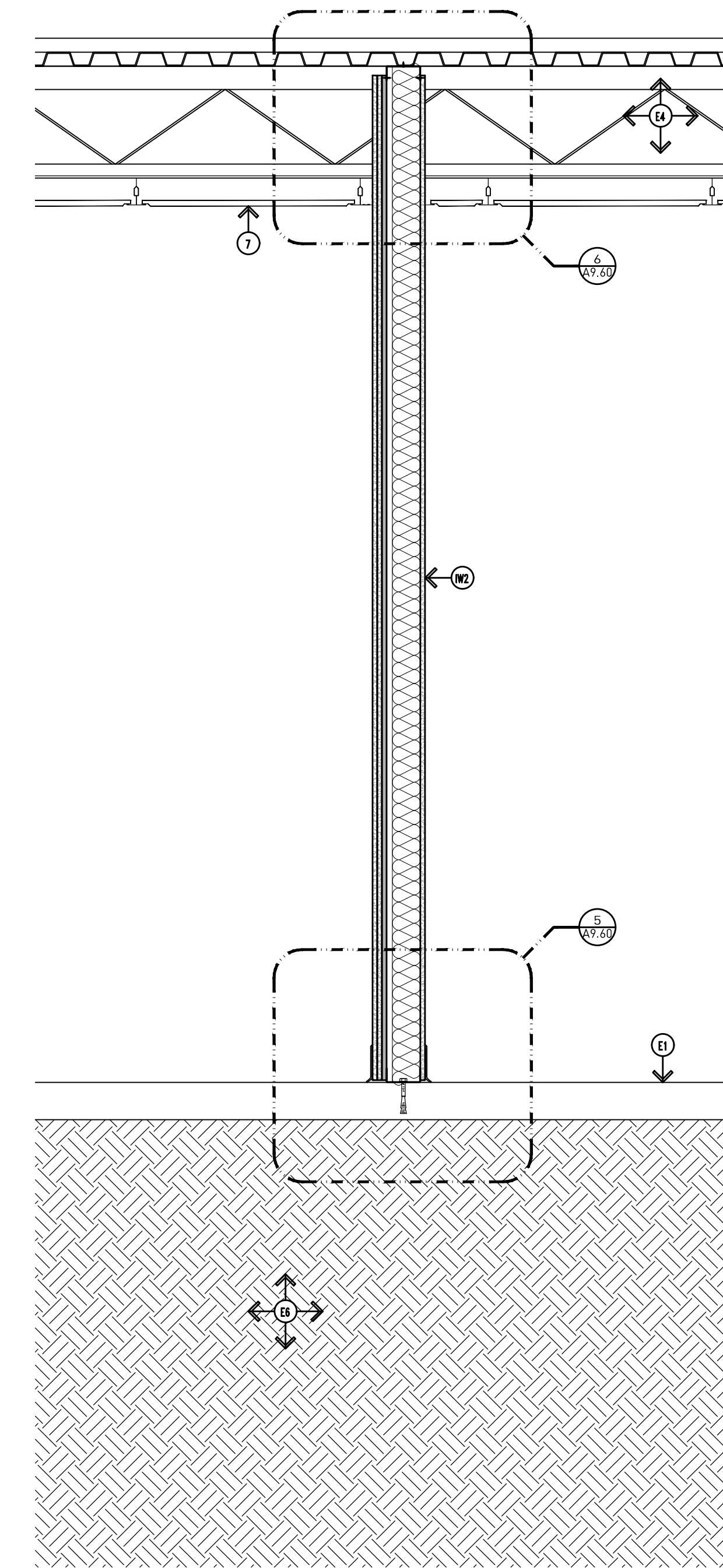
A9.51



3 Int. Wall Section H - East/West (Area A)
Scale: 1"=1'-0"
REFER TO DRAWING 1/A9.52 FOR TYPICAL NOTES



2 Int. Wall Section G - North/South (Area A)
Scale: 1"=1'-0"
REFER TO DRAWING 1/A9.52 FOR TYPICAL NOTES



1 Int. Wall Section F - North/South (Area A)
Scale: 1"=1'-0"

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. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS WHERE NEW BUILDING IS TYING INTO THE EXISTING.

EXISTING TO REMAIN NOTES:

- E1. CONCRETE FLOOR SLAB - EXACT CONDITIONS UNKNOWN.
- E2. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E3. BRICK VENEER - EXACT CONDITIONS UNKNOWN.
- E4. ROOF, ROOF STRUCTURE, AND ROOF DECK - EXACT CONDITIONS UNKNOWN.
- E5. STRUCTURAL FOOTING - EXACT CONDITIONS UNKNOWN.
- E6. UNDISTURBED SOIL - EXACT CONDITIONS UNKNOWN.
- E7. LIMESTONE - EXACT CONDITIONS UNKNOWN.

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. CONCRETE FLOOR SLAB OVER 15 MIL VAPOR BARRIER -- PROPERLY LAP AND SEAL JOINTS PER MANUFACTURER'S REQUIREMENTS.
- 5. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
- 6. FILL VOID WITH COMPRESSIBLE FILLER AND FIRE RESISTIVE COATING (1-HOUR) MATERIAL TO ALLOW FOR MINIMUM 1" ROOF DEFLECTION.
- 7. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
- 8. STRUCTURAL STEEL ROOF FRAMING -- REFER TO STRUCTURAL DRAWINGS.
- 9. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
- 10. 1 1/2" GALVANIZED METAL ROOF DECK.
- 11. RIGID ROOF INSULATION BOARD (MINIMUM 6" THICKNESS -- TWO LAYERS AND COVERBOARD).
- 12. FULL ADHERED SINGLE-PLY EPDM ROOF.
- 13. CORRIDOR WALLS TO BE BLOCKED IN TIGHT FOR REQUIRED WALL RATING AND TO RESIST THE PASSAGE OF SMOKE.
- 14. GROUT CMU SOLID.
- 15. DOOR -- REFER TO DOOR SCHEDULE.
- 16. CUBBIES -- REFER TO SPECIFICATIONS AND INTERIOR ELEVATIONS.
- 17. WALL BASE--REFER TO FINISH SCHEDULE.

INTERIOR WALL TAGS:

- IW1. TYPICAL METAL STUD WALL CONSTRUCTION UNLESS NOTED OTHERWISE.
 - 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
 - 3-5/8" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - MINIMUM 3" SOUND ATTENUATION BATTS TO U/S OF ROOF DECK.
 - 5/8" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK.
- IW2. METAL STUD SOUND ACOUSTIC WALL - TEST NUMBER RAL-TL-84-136
 - 1/2" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK. GYPSUM SCREWS ATTACHED TO STUDS.
 - 3-5/8" METAL STUD FRAMING AT 16" O.C TO U/S OF ROOF DECK. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
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 - RC-1 CHANNEL INSTALLED ON ONE SIDE @ 24" O.C.
 - TWO (2) LAYERS 1/2" GYPSUM BOARD TAPED AND FINISHED THREE (3) COATS TO UNDERSIDE OF ROOF DECK. GYPSUM SCREWS ATTACHED TO RC-1 CHANNEL.
 - ACOUSTIC SEALANT AT TOP AND BOTTOM OF WALLS AND AT ALL PENETRATIONS.
- IW9. METAL STUD FIRE BARRIER. 2 HOUR FIRE-RATED CONSTRUCTION. UL DES U419 OR U491.
 - 3/4" SHEETROCK ULTRACORE GYPSUM PANEL TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK OR ADJACENT CMU WALL.
 - 3-1/2" DIA. METAL STUD FRAMING AT 24" O.C TO U/S OF ROOF DECK OR ADJACENT CMU WALL. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
 - MINIMUM 3" THERMAFIBER SAFB TO U/S OF ROOF DECK.
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Bidding and Permits: 31 July 2023

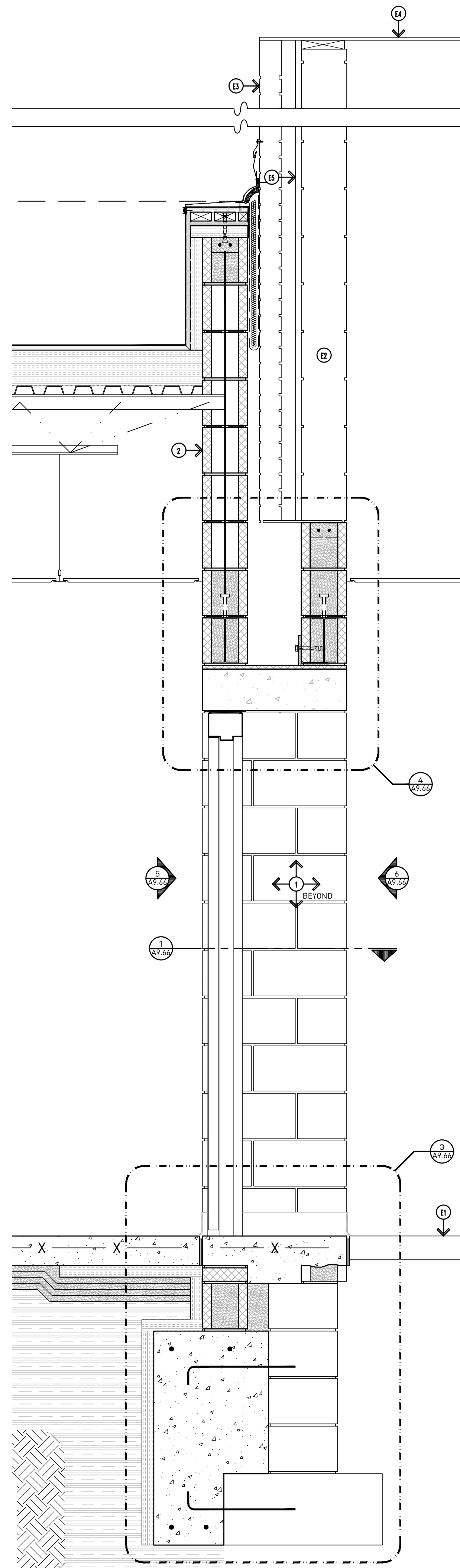
Interior Wall Sections



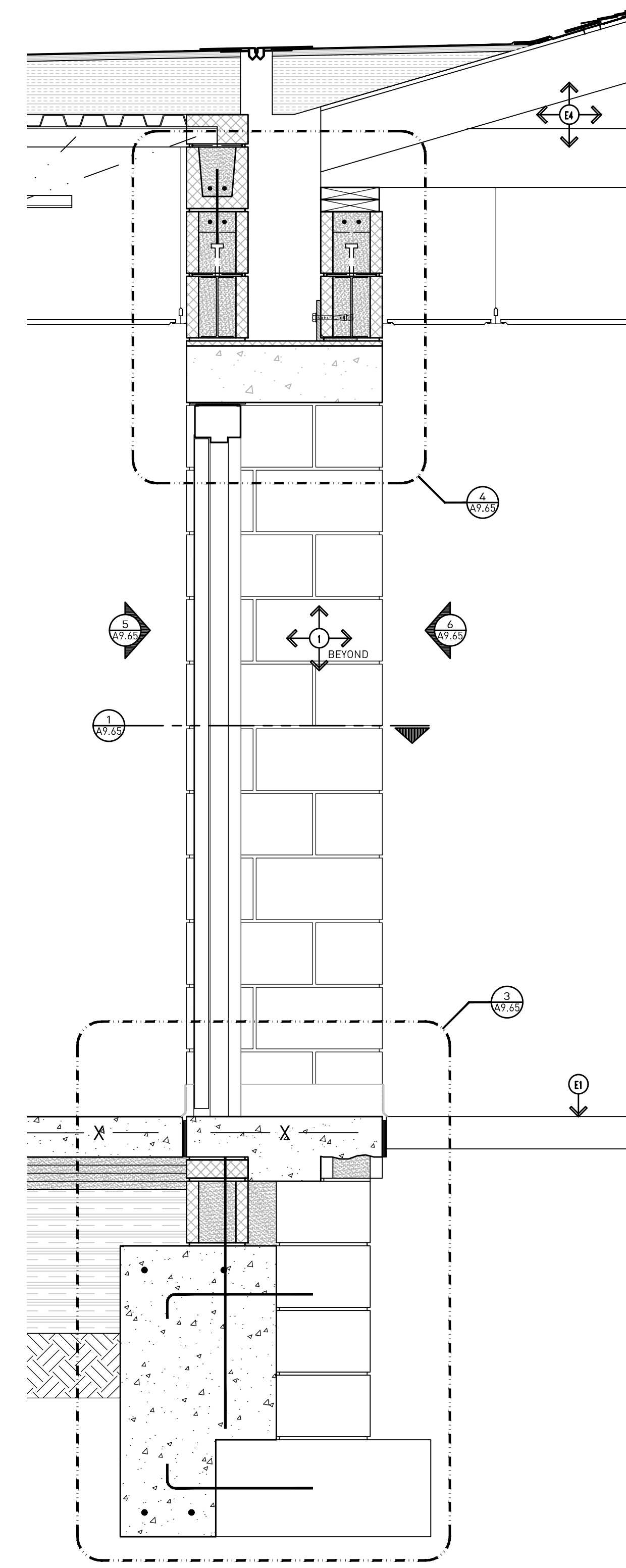
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A9.52



2 Portal B Section - East/West (Area A)
Scale: 1"=1'-0"



1 Portal A Section - North/South (Area B)
Scale: 1"=1'-0"

GENERAL NOTES:

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EXISTING TO REMAIN NOTES:

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- E2. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E3. BRICK VENEER - EXACT CONDITIONS UNKNOWN.
- E4. ROOF, ROOF STRUCTURE, AND ROOF DECK - EXACT CONDITIONS UNKNOWN.
- E5. WALL INSULATION - EXACT CONDITIONS UNKNOWN.

DRAWING NOTES:

- 1. PORTAL WALL PIERS.
- 2. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW - TOOTH-IN AS NECESSARY).



Bidding and Permits: 31 July 2023

Portal Wall Sections



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

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A9.55

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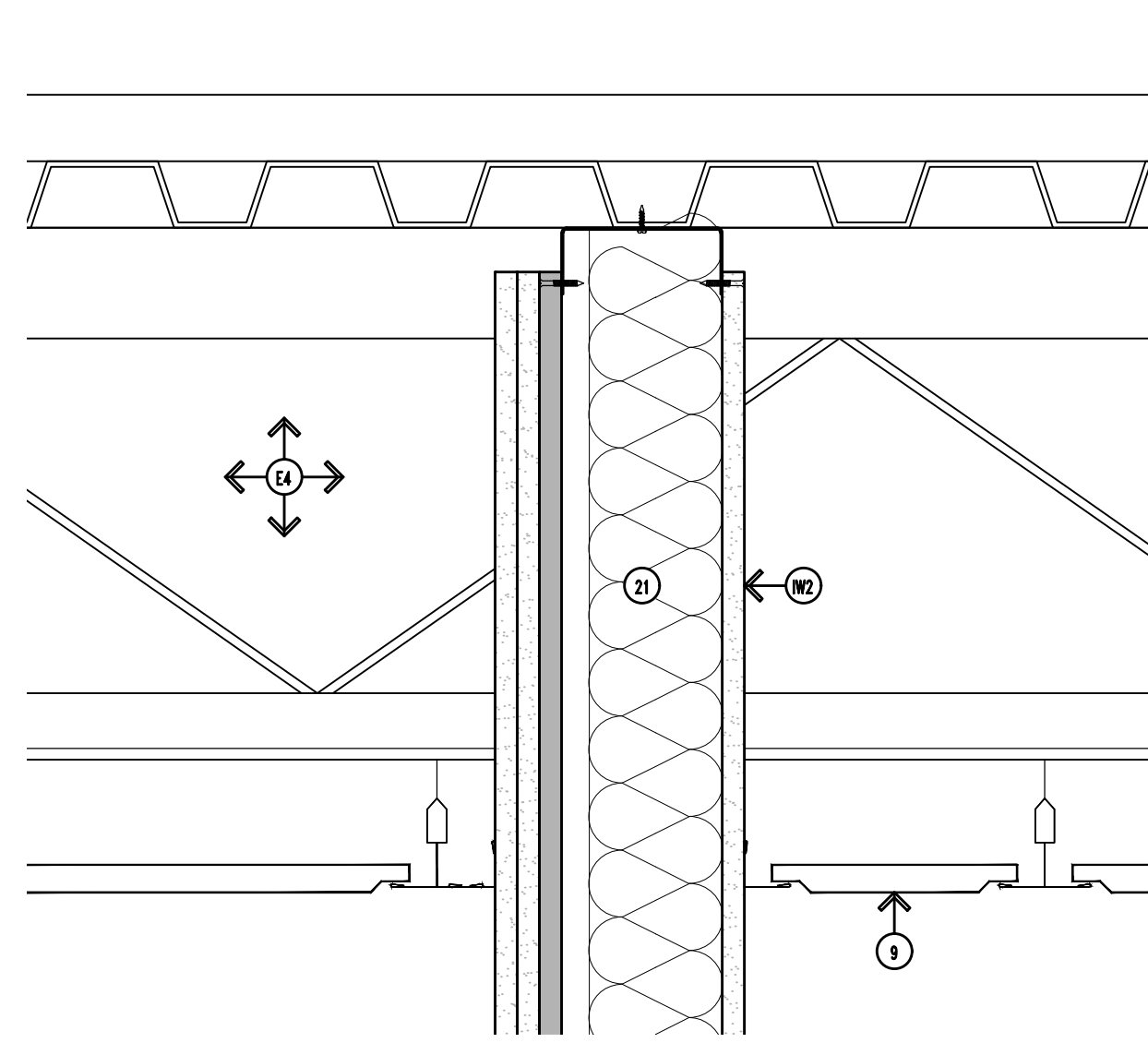
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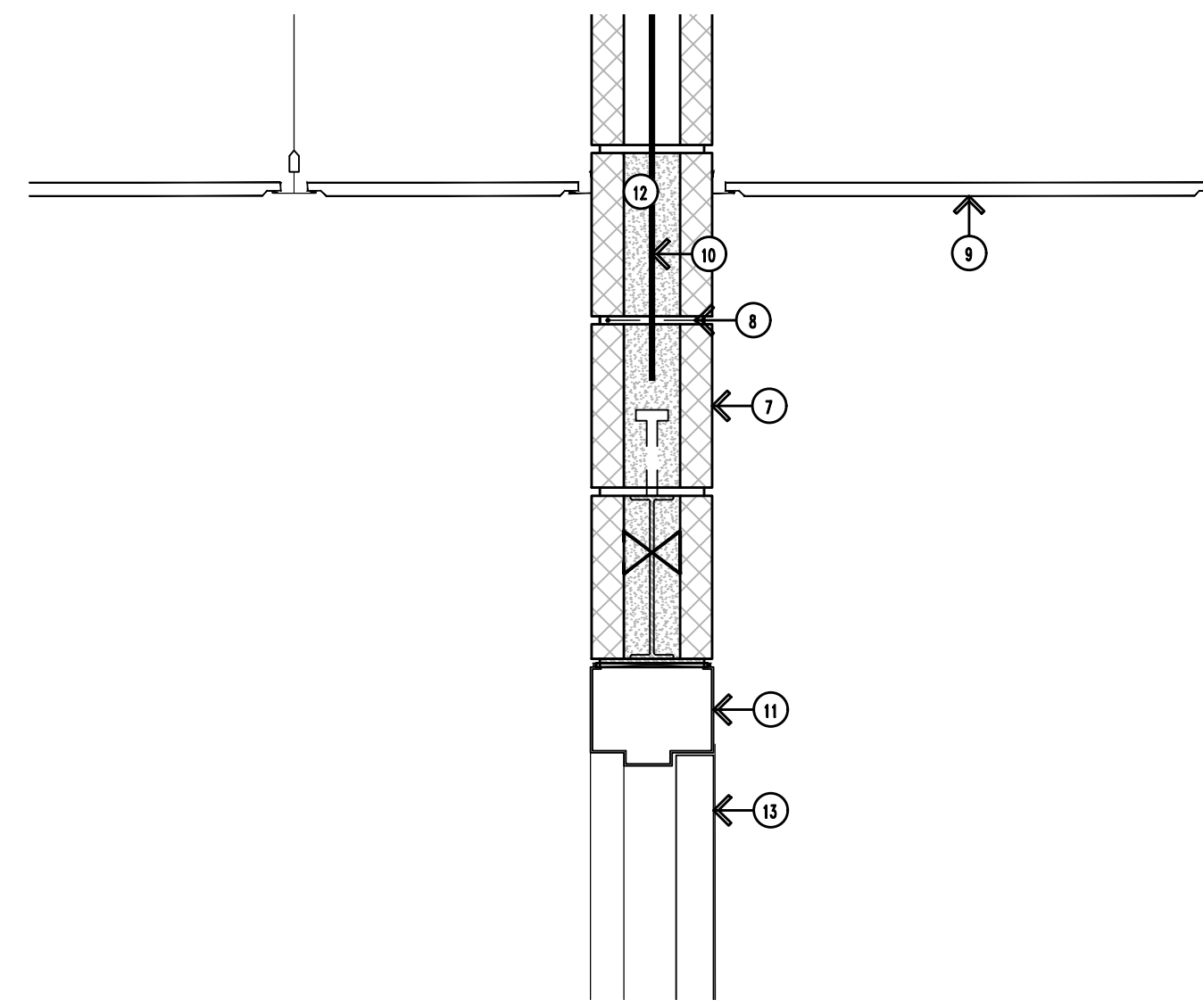
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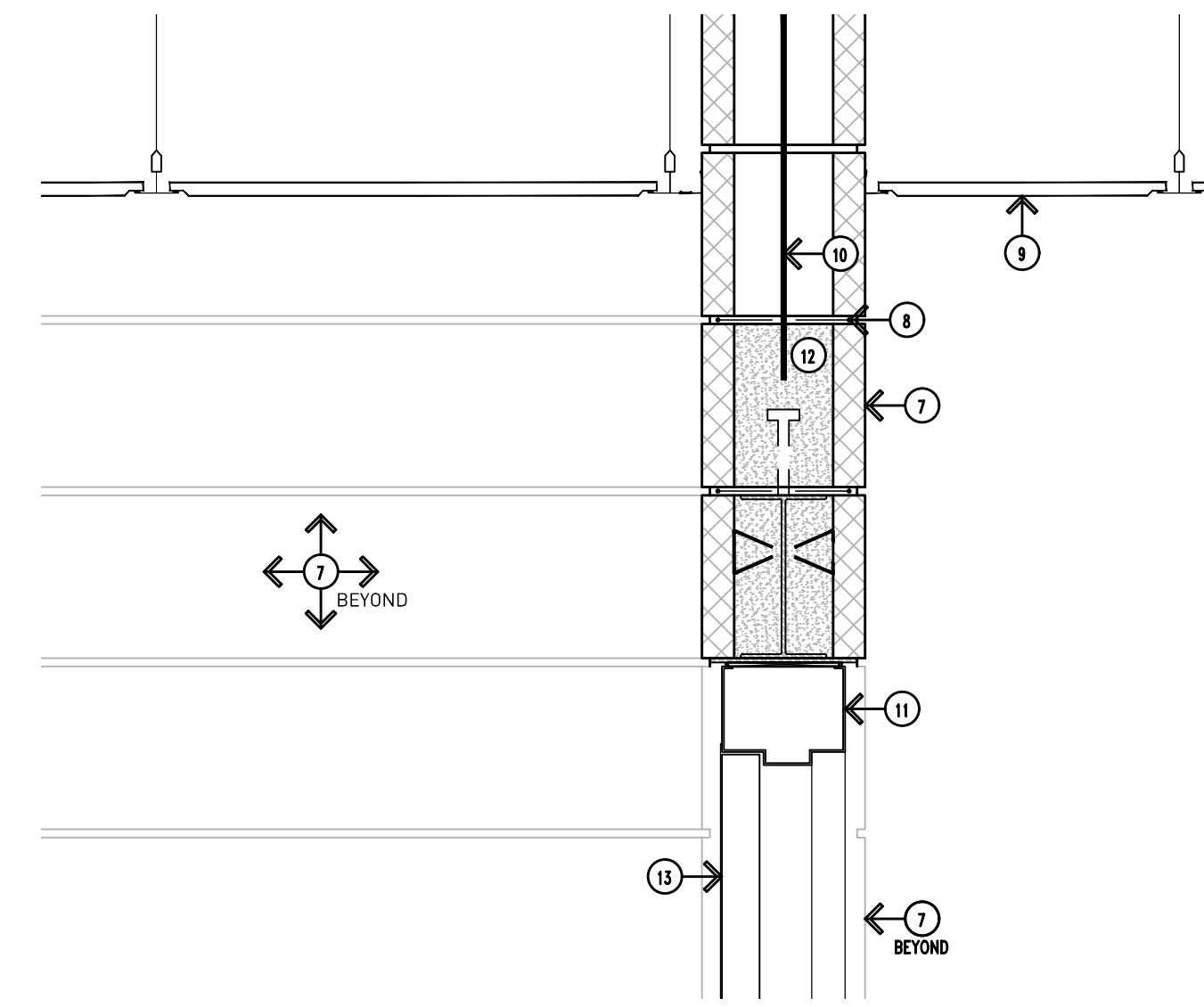
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5. CONCRETE FOUNDATION -- REFER TO STRUCTURAL DRAWINGS.
6. 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT.
7. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
8. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
9. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
10. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
11. DOOR FRAME -- REFER TO DOOR SCHEDULE.
12. GROUT CMU SOLID.
13. DOOR -- REFER TO DOOR SCHEDULE.
14. SEALANT (WITH FOAM BACKER ROD AS NECESSARY TO SUIT CONDITIONS.)
15. GROUT CMU CORES SOLID BELOW FLASHING AT WHERE BELOW GRADE.
16. JAMB ANCHOR TO SUIT CONDITIONS.
17. GROUT FILLED DOOR FRAME.
18. CUBBIES -- REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
19. OUTLINE OF PORTABLE FIRE EXTINGUISHER.
20. RECESSED FIRE EXTINGUISHER CABINET WITH 5/16" FLAT TRIM.
21. CONTINUOUS METAL STUD FRAMING--REFER TO INTERIOR WALL TAG DESIGNATIONS FOR SIZING, GAUGE, ETC.
22. 3/8" x 4" EXPANSION ANCHORS @ 48" O.C. OR EQUAL STRENGTH POWERED FASTENERS, MINIMUM 2" EMBEDMENT INTO CONCRETE FLOOR SLAB.
23. WALL BASE--REFER TO FINISH SCHEDULE.
24. 3/8" EPOXY DOWEL INTO EXISTING CONCRETE FLOOR SLAB @ 36" O.C. STAGGERED.
25. PLUMBING PIPING. REFER TO MECHANICAL DRAWINGS FOR SIZE AND MATERIAL.



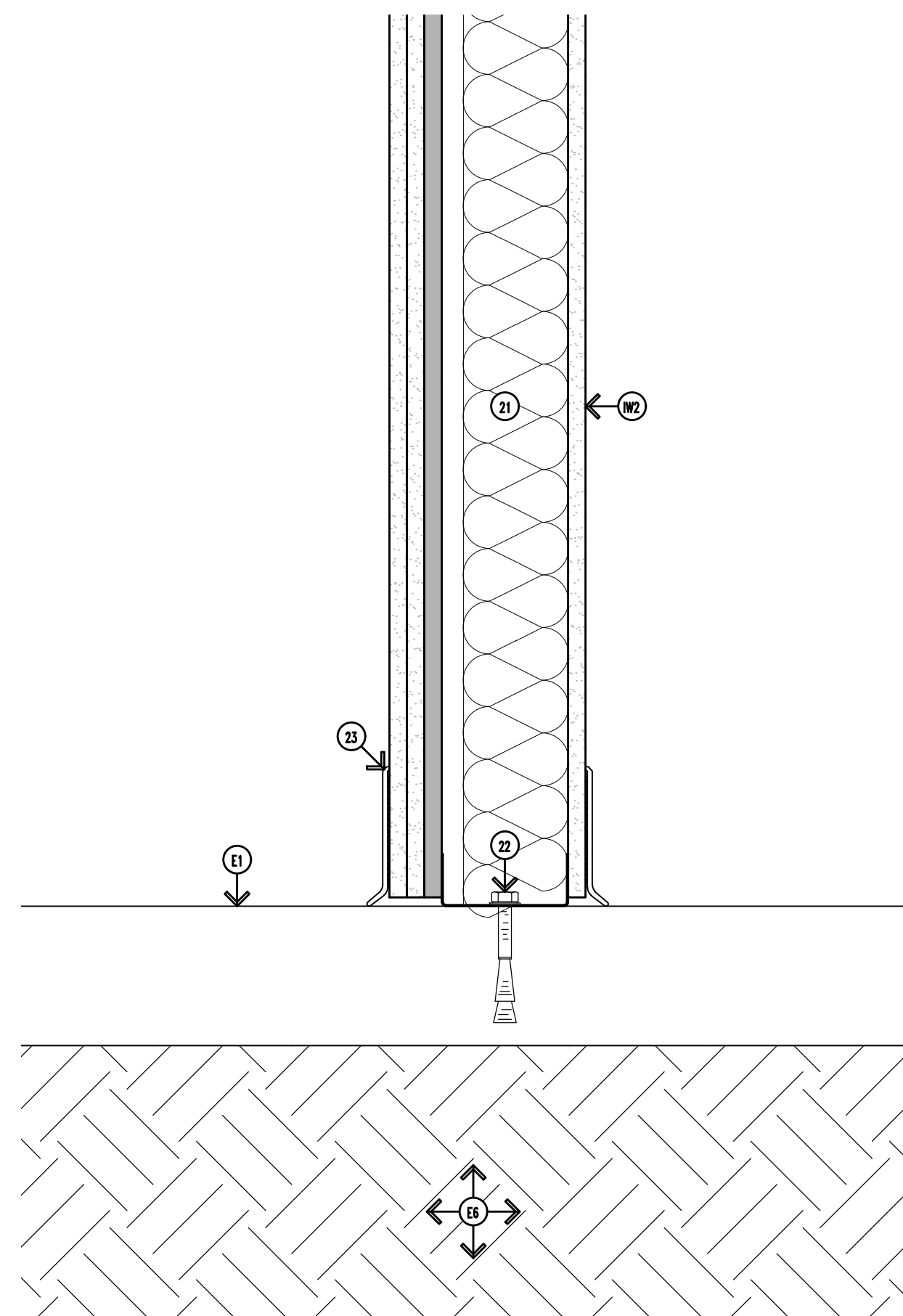
6 Typical Sound Dampening Wall - Top of Wall
Scale: 3"-1'-0"



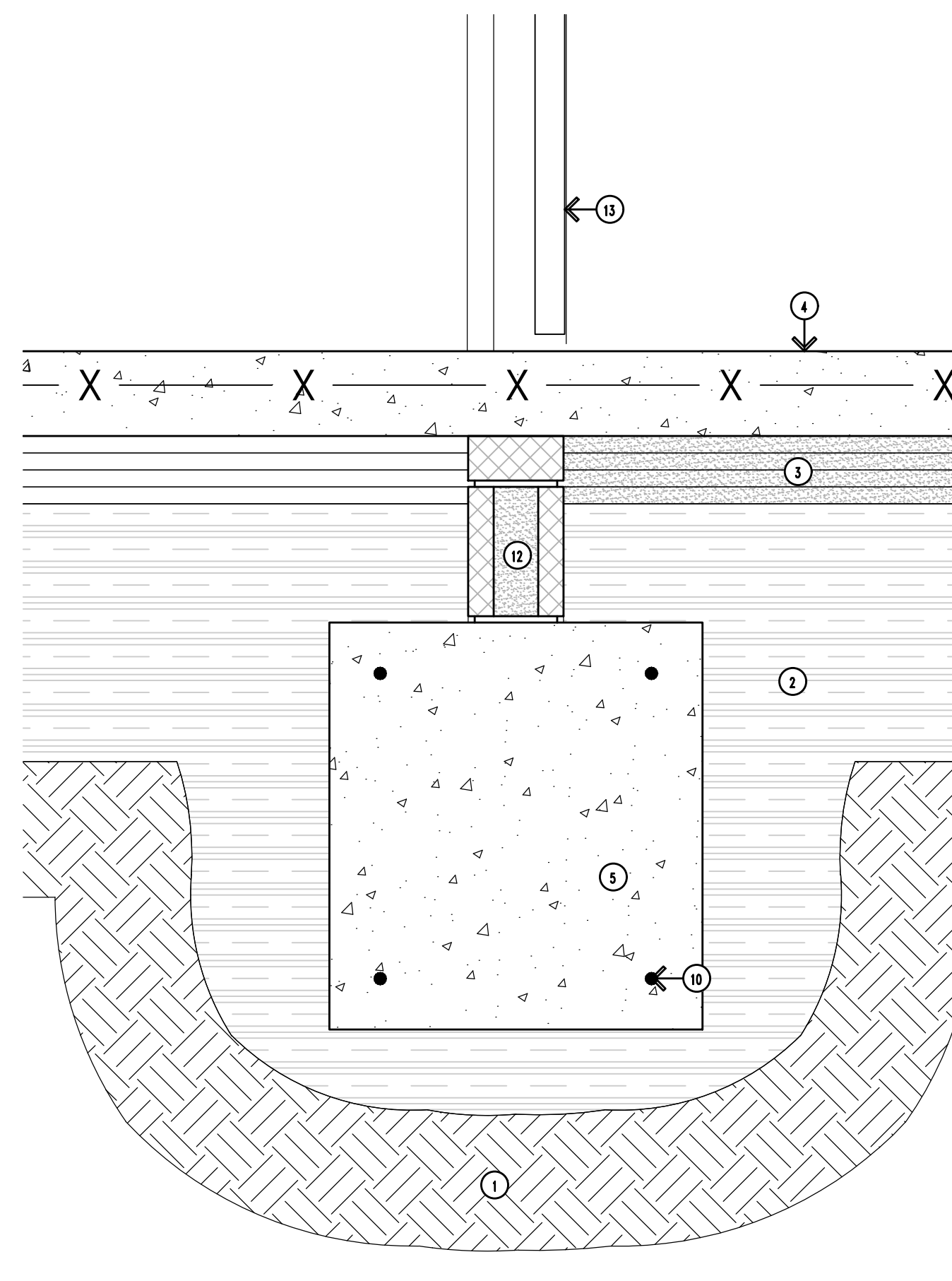
4 Typical Door Head Detail @ 6" CMU Bearing Wall
Scale: 1-1/2"=1'-0"



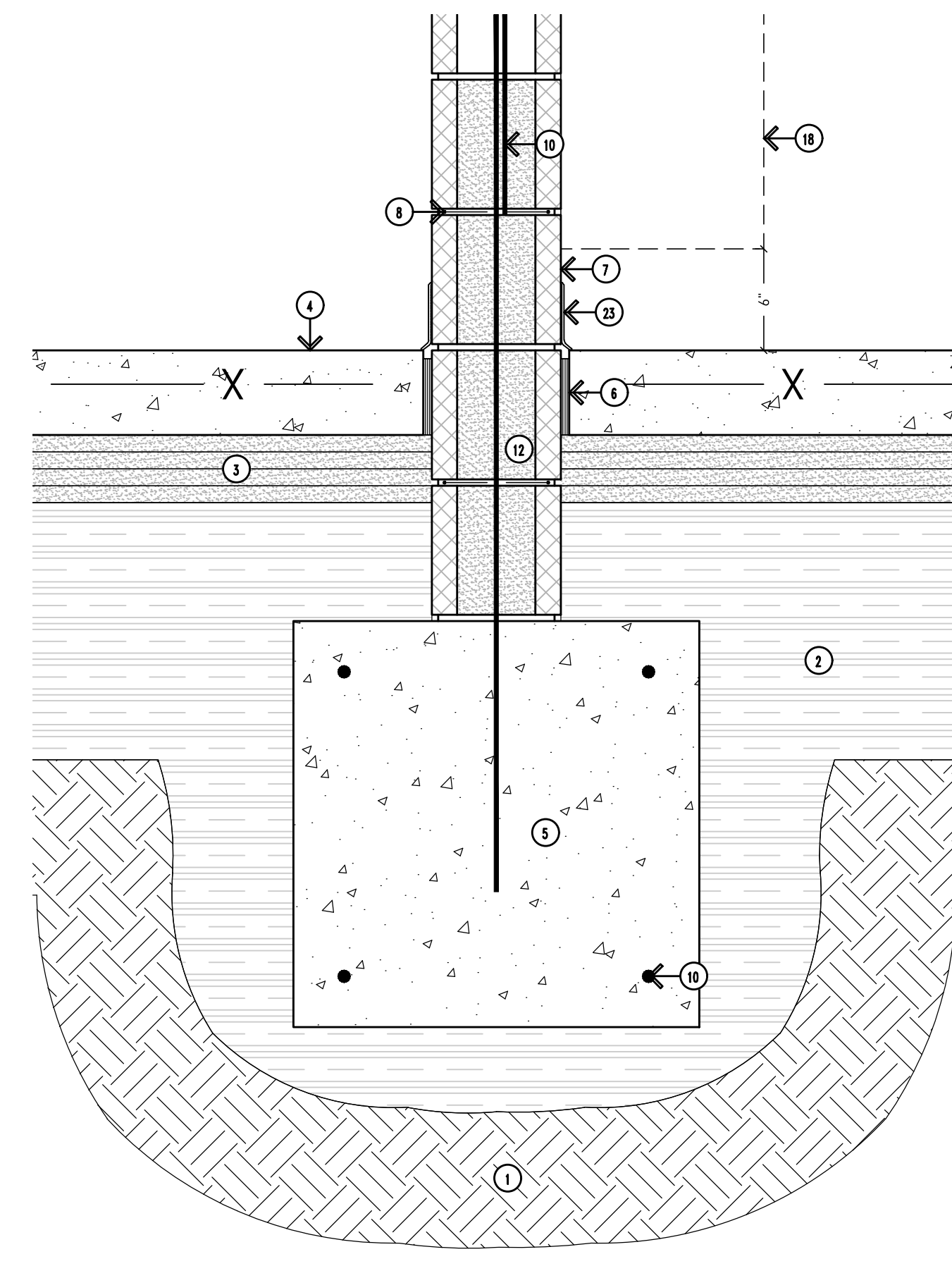
2 Typical Door Head Detail @ Recessed Classroom Door
Scale: 1-1/2"=1'-0"



5 Typical Sound Dampening Wall - Base of Wall
Scale: 3"-1'-0"



3 Typical 6" CMU Bearing Wall Base of Wall @ Door
Scale: 1-1/2"=1'-0"



1 Typical Bearing Wall Base of Wall
Scale: 1-1/2"=1'-0"

INTERIOR WALL TAGS:

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- IW3. METAL STUD FIRE BARRIER 2 HOUR FIRE-RATED CONSTRUCTION. UL DES U419 OR U491.
 - 3/4" SHEETROCK ULTRACODE CORE GYPSUM PANEL TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK OR ADJACENT CMU WALL.
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Bidding and Permits: 31 July 2023



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221 A9.60

GENERAL NOTES:

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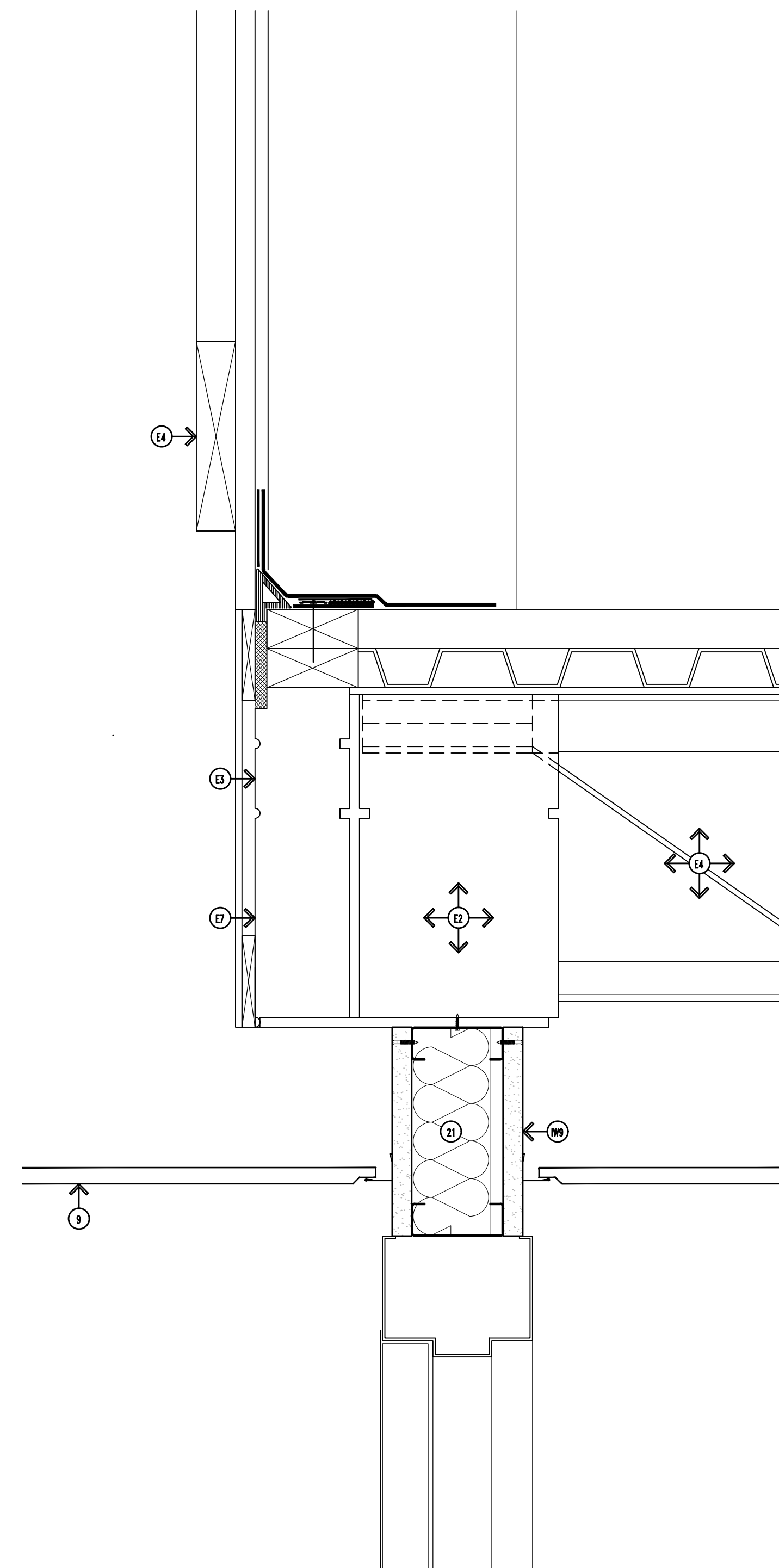
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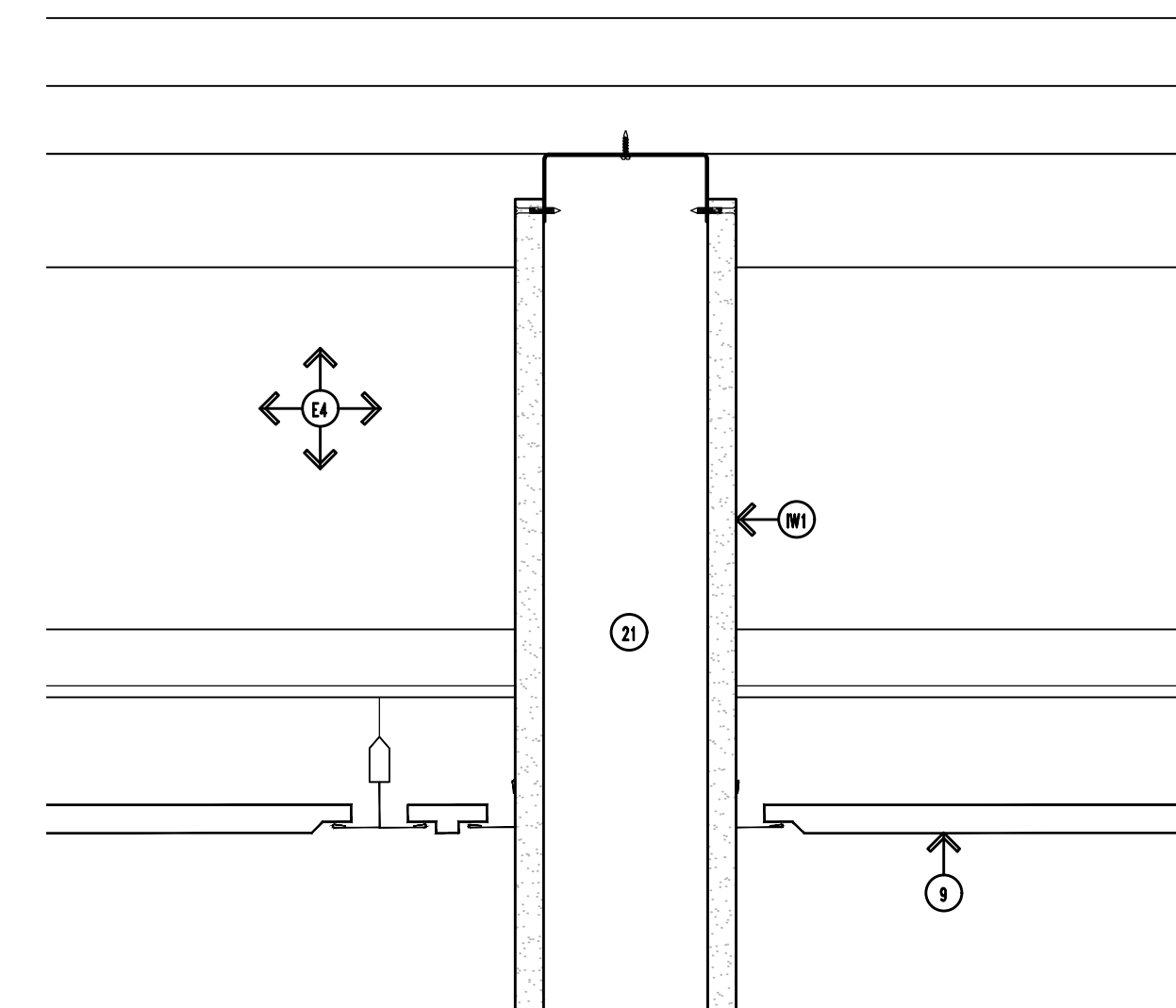
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- 7. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
- 8. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 9. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
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- 12. GROUT CMU SOLID.
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- 19. OUTLINE OF PORTABLE FIRE EXTINGUISHER.
- 20. RECESSED FIRE EXTINGUISHER CABINET WITH 5/16" FLAT TRIM.
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- 22. 3/8" x 4" EXPANSION ANCHORS @ 48" O.C. OR EQUAL STRENGTH POWERED FASTENERS, MINIMUM 2" EMBEDMENT INTO CONCRETE FLOOR SLAB.
- 23. WALL BASE--REFER TO FINISH SCHEDULE.
- 24. 3/8" EPOXY DOWEL INTO EXISTING CONCRETE FLOOR SLAB @ 36" O.C. STAGGERED.
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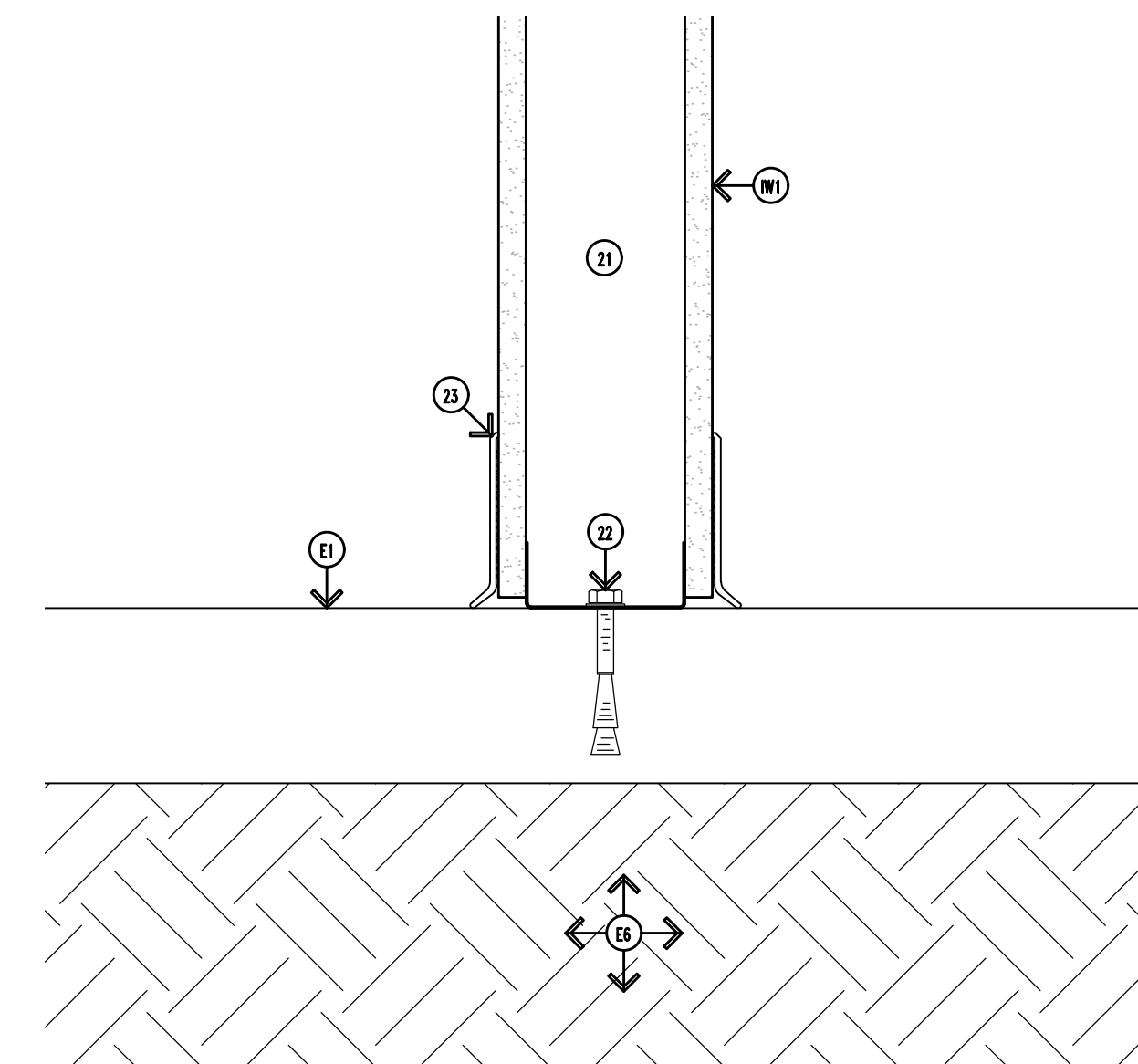
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 - MINIMUM 3" SOUND ATTENUATION BAITS TO U/S OF ROOF DECK.
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 - 3/4" SHEETROCK ULTRACODE CORE GYPSUM PANEL TAPED AND FINISHED THREE (3) COATS TO U/S OF ROOF DECK OR ADJACENT CMU WALL.
 - 3-1/2" 25 GA. METAL STUD FRAMING AT 24" O.C TO U/S OF ROOF DECK OR ADJACENT CMU WALL. PROVIDE SLIP TRACK TOP TRACK TO ALLOW FOR 1 1/2" ROOF DEFLECTION.
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3 Door Head Detail @ Door 125
Scale: 3"=1'-0"



2 Typical Gypsum Board Wall - Top of Wall
Scale: 3"=1'-0"



1 Typical Gypsum Board Wall - Base of Wall
Scale: 3"=1'-0"



Bidding and Permits: 31 July 2023



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221 A9.61

FIRESTOPPING NOTES:

**SECTION 07 8400
FIRESTOPPING**

PART 1 GENERAL
1.01 SECTION INCLUDES
 A. FIREPROOF FIRESTOPPING AND FIRESAFING MATERIALS AND ACCESSORIES.
1.02 SYSTEM DESCRIPTION
 A. FIRESTOPPING MATERIALS: UL TO ACHIEVE A FIRE RATING AS NOTED ON DRAWINGS. USE APPROPRIATE FORM OF MATERIAL TO SUIT APPLICATION.
 B. FIRESTOP ALL INTERRUPTIONS TO FIRE RATED ASSEMBLIES, MATERIALS, AND COMPONENTS.
1.03 SUBMITTALS
 A. SEE SECTION 01 3000 - ADMINISTRATIVE REQUIREMENTS FOR SUBMITTAL PROCEDURES.
 B. PRODUCT DATA
1.04 DELIVERY, STORAGE, AND HANDLING
 A. SEE SECTION 01 7410 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL FOR PACKAGING WASTE REQUIREMENTS.

PART 2 PRODUCTS
2.01 FIRESTOPPING MATERIALS
 A. FIRESAFING: NON-COMBUSTIBLE, MOISTURE RESISTANT, NON-CORROSIVE, NON-DETERIORATING, MILDEW-RESISTANT, AND VERMIN-RESISTANT.
 1. DENSITY: 4 PCF.
 2. FLAME SPREAD: 0
 3. SMOKE DEVELOPED: 0
 4. FIRE RATING: UP TO 4 HOURS.
 5. MANUFACTURERS: THERMAFIBER, PRODUCT "THERMAFIBER SAFING".
 B. FIRE BARRIER PACKING: SHALL BE NON-ASBESTOS, MOLD RESISTANT AND INORGANIC.
 1. DENSITY: 4 PCF.
 2. FLAME SPREAD: 0
 3. SMOKE DEVELOPED: 0
 4. FIRE RATING: UP TO 4 HOURS.
 5. MANUFACTURERS: 3M, PRODUCT "FIRE BARRIER PACKING MATERIAL PFM".
 6. SUBSTITUTIONS: SEE SECTION 01 6000 - PRODUCT REQUIREMENTS.
 C. FIRE CAULKING: SHALL BE SINGLE COMPONENT FIRE RATED CAULKING FOR CONCRETE, METALS, WOOD, PLASTIC, CABLE JACKETING. PAINTABLE.
 1. FLAME SPREAD: 5
 2. SMOKE DEVELOPED: 0
 3. SAG CHARACTERISTICS: 0
 4. FIRE RATING: UP TO 4 HOURS.
 5. MANUFACTURERS: 3M, PRODUCT "FIRE BARRIER CP 25WB+ CAULK"
 6. SUBSTITUTIONS: SEE SECTION 01 6000 - PRODUCT REQUIREMENTS.
 D. FIRE SPRAY: SHALL BE SPRAYABLE ELASTOMERIC COATING AS PART OF A FIRESTOP ASSEMBLY. PAINTABLE.
 1. FLAME SPREAD: <25
 2. SMOKE DEVELOPMENT: <25
 3. FIRE RATING: UP TO 2 HOURS.
 4. MANUFACTURERS: 3M, PRODUCT "FIRE DAM SPRAY 200".
 5. SUBSTITUTIONS: SEE SECTION 01 6000 - PRODUCT REQUIREMENTS.
 E. FIRE SLEEVES: SHALL BE ONE PIECE METAL ENCLOSURE WITH FIXED FIRE STOPPING INTUMESCENT MATERIAL. SLEEVES BE READILY IDENTIFIABLE AS FIRE RATED.
 1. SIZE: AS NEEDED TO SUIT APPLICATION.
 2. ACCESSORIES: ALL MOUNTING BRACKETS, STUD BRACKETS, SEALANT NECESSARY FOR INSTALLATION.
 3. BLANKS: PROVIDE WHERE NOTED AS "FUTURE" ON DRAWINGS.
 4. FIRE RATING: UP TO 3 HOURS.
 5. MANUFACTURERS: 3M, PRODUCT "FIRE BARRIER PASS-THROUGH DEVICE".
 6. SUBSTITUTIONS: SEE SECTION 01 6000 - PRODUCT REQUIREMENTS.

PART 3 EXECUTION
3.01 EXAMINATION
 A. VERIFY OPENINGS ARE READY TO RECEIVE THE WORK OF THIS SECTION.
3.02 PREPARATION
 A. CLEAN SUBSTRATE SURFACES OF MATTER WHICH MAY AFFECT BOND OF FIRESTOPPING MATERIAL.
3.03 INSTALLATION
 A. APPLY FIRESTOPPING MATERIAL IN SUFFICIENT THICKNESS TO ACHIEVE RATING.
 B. INSTALL MATERIAL AT WALLS OR PARTITION OPENINGS WHICH CONTAIN PENETRATING SLEEVES, PIPING, DUCT WORK, CONDUIT AND OTHER ITEMS, REQUIRING FIRESTOPPING.

END OF SECTION

GENERAL NOTES:

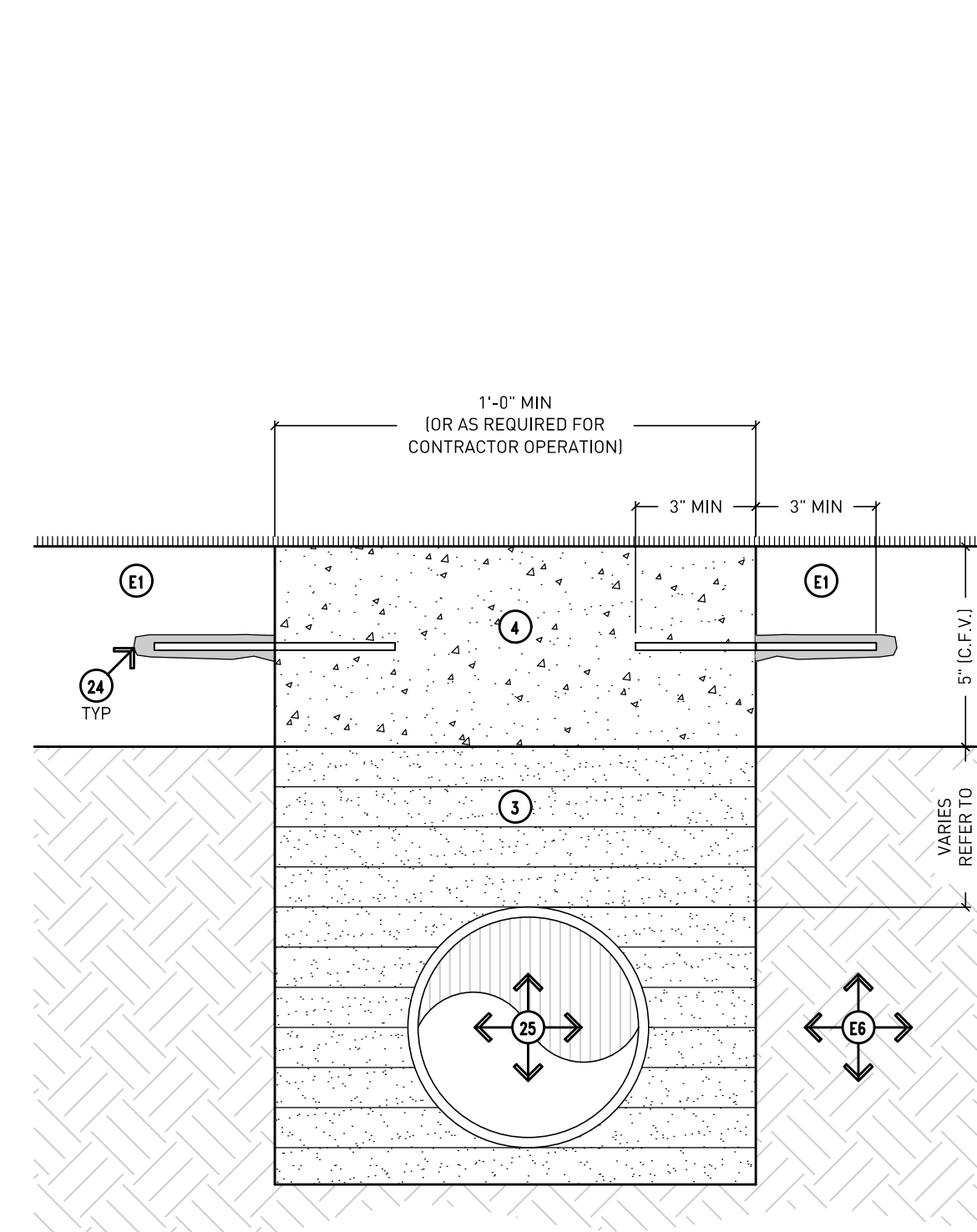
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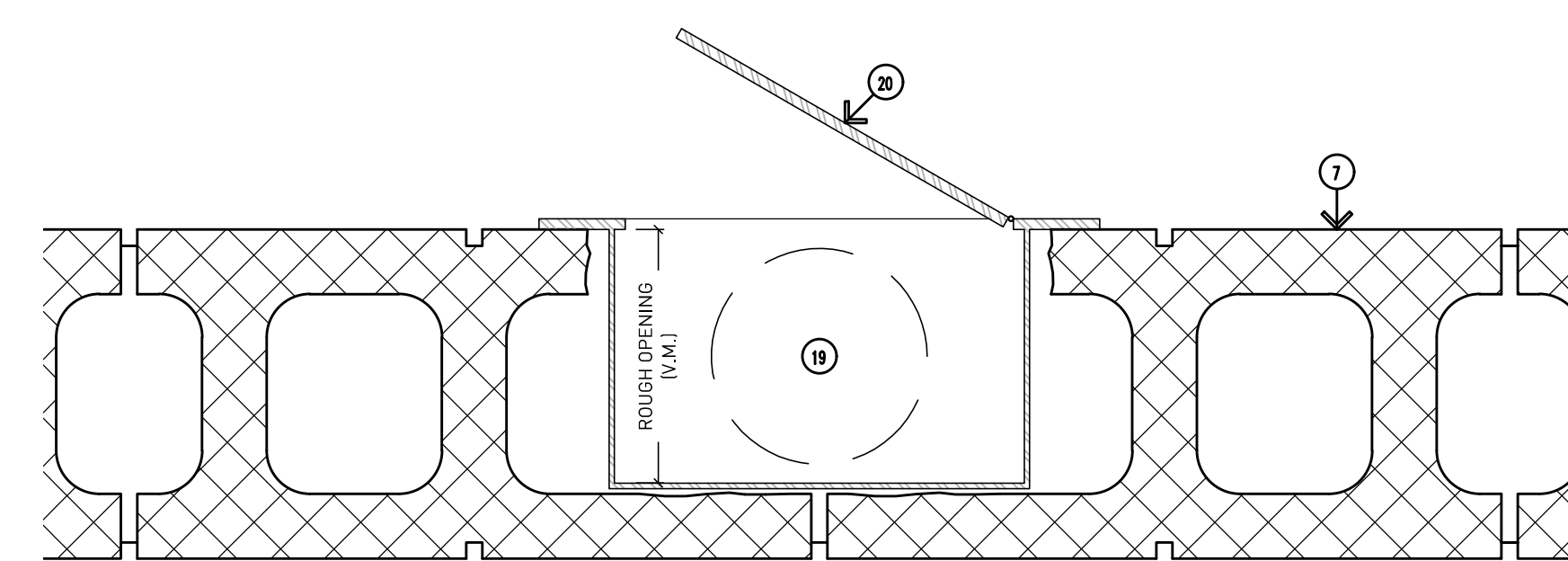
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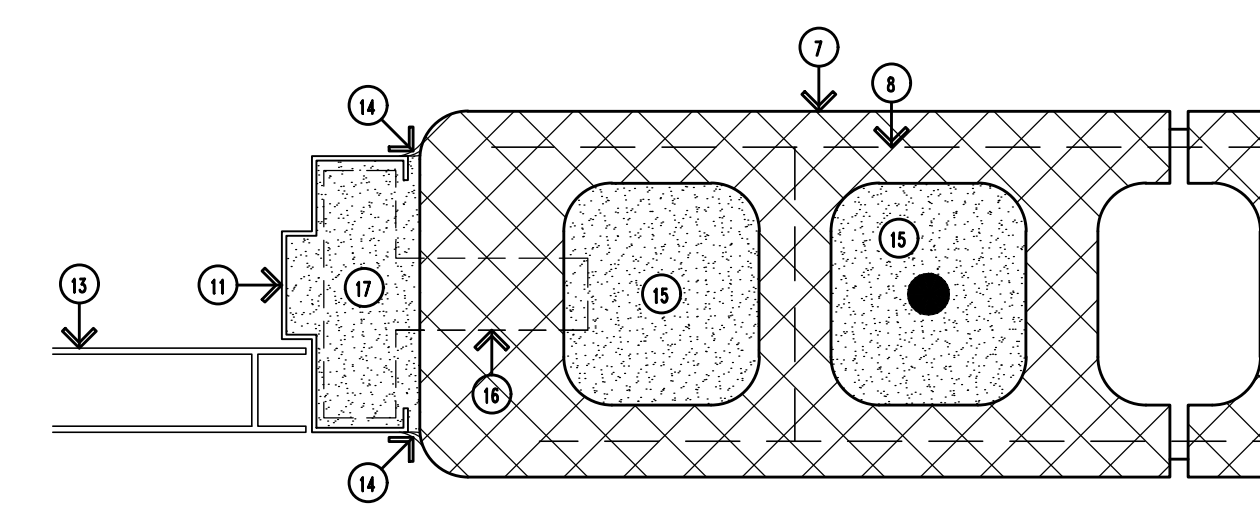
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- 6. 1/2" PREMOULDED EXPANSION JOINT WITH SEALANT.
- 7. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW).
- 8. HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 9. ACUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.
- 10. REINFORCING -- REFER TO STRUCTURAL DRAWINGS.
- 11. DOOR FRAME -- REFER TO DOOR SCHEDULE.
- 12. GROUT CMU SOLID.
- 13. DOOR -- REFER TO DOOR SCHEDULE
- 14. SEALANT (WITH FOAM BACKER ROD AS NECESSARY TO SUIT CONDITIONS.)
- 15. GROUT CMU CORES SOLID BELOW FLASHING AT WHERE BELOW GRADE.
- 16. JAMB ANCHOR TO SUIT CONDITIONS.
- 17. GROUT FILLED DOOR FRAME.
- 18. CUBBIES -- REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 19. OUTLINE OF PORTABLE FIRE EXTINGUISHER.
- 20. RECESSED FIRE EXTINGUISHER CABINET WITH 5/16" FLAT TRIM.
- 21. CONTINUOUS METAL STUD FRAMING--REFER TO INTERIOR WALL TAG DESIGNATIONS FOR SIZING, GAUGE, ETC.
- 22. 3/8" x 4" EXPANSION ANCHORS @ 48" O.C. OR EQUAL STRENGTH POWERED FASTENERS, MINIMUM 2" EMBEDMENT INTO CONCRETE FLOOR SLAB.
- 23. WALL BASE--REFER TO FINISH SCHEDULE.
- 24. 3/8" EPOXY DOWEL INTO EXISTING CONCRETE FLOOR SLAB @ 36" O.C. STAGGERED.
- 25. PLUMBING PIPING, REFER TO MECHANICAL DRAWINGS FOR SIZE AND MATERIAL.



3 Floor Trench Infill Detail - Plumbing
 Scale: 3"=1'-0"



2 Typical Recessed Fire Ext. Cabinet
 Scale: 3"=1'-0"



1 Typical Interior Door Jamb Detail
 Scale: 3"=1'-0"



Bidding and Permits: 31 July 2023



Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

A9.62

GENERAL NOTES:

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

EXISTING TO REMAIN NOTES:

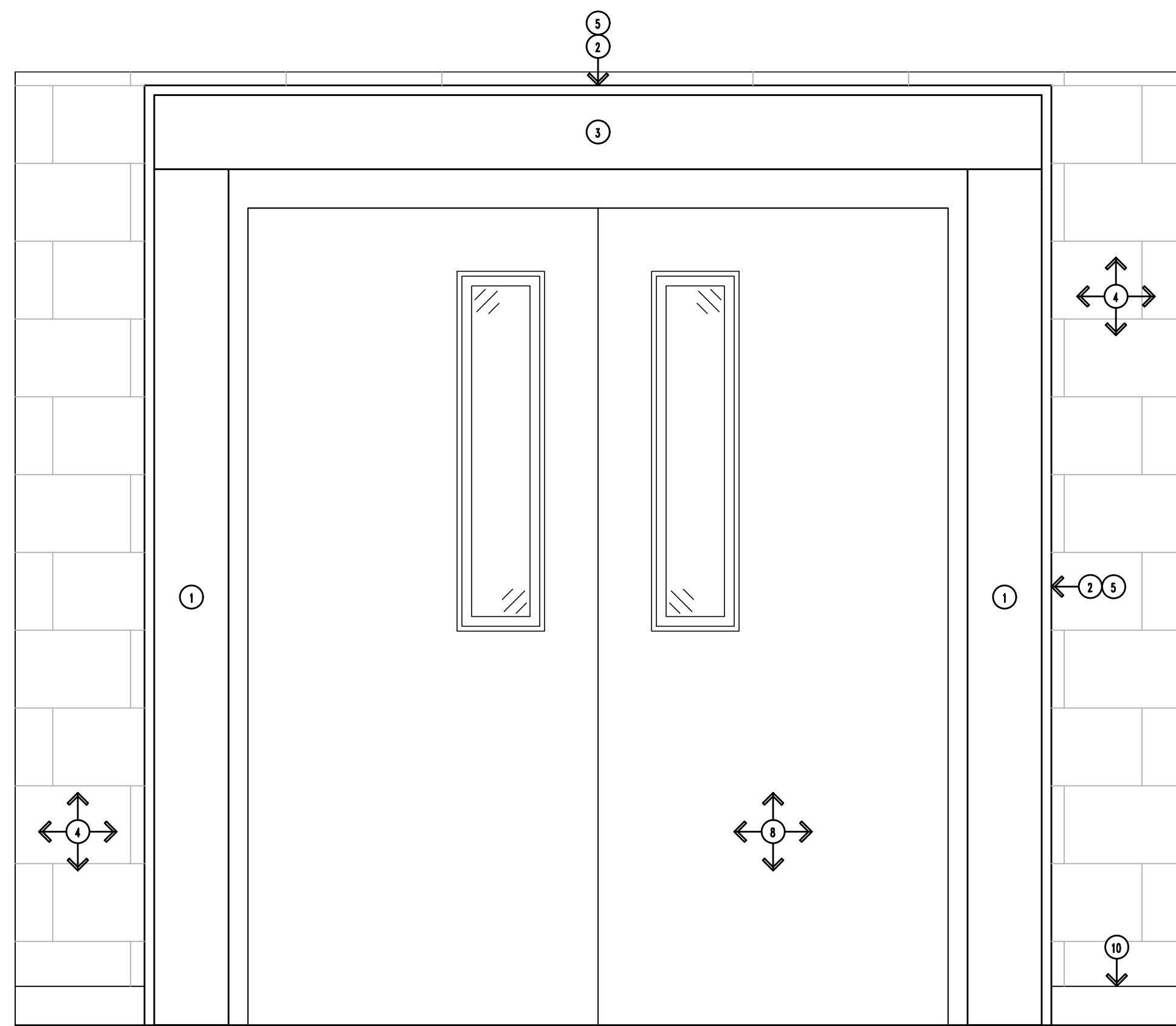
- E1. CONCRETE FLOOR SLAB - EXACT CONDITIONS UNKNOWN.
- E2. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E3. BRICK VENEER - EXACT CONDITIONS UNKNOWN.
- E4. ROOF, ROOF STRUCTURE, AND ROOF DECK - EXACT CONDITIONS UNKNOWN.
- E5. WALL INSULATION - EXACT CONDITIONS UNKNOWN.

REMOVAL NOTES:

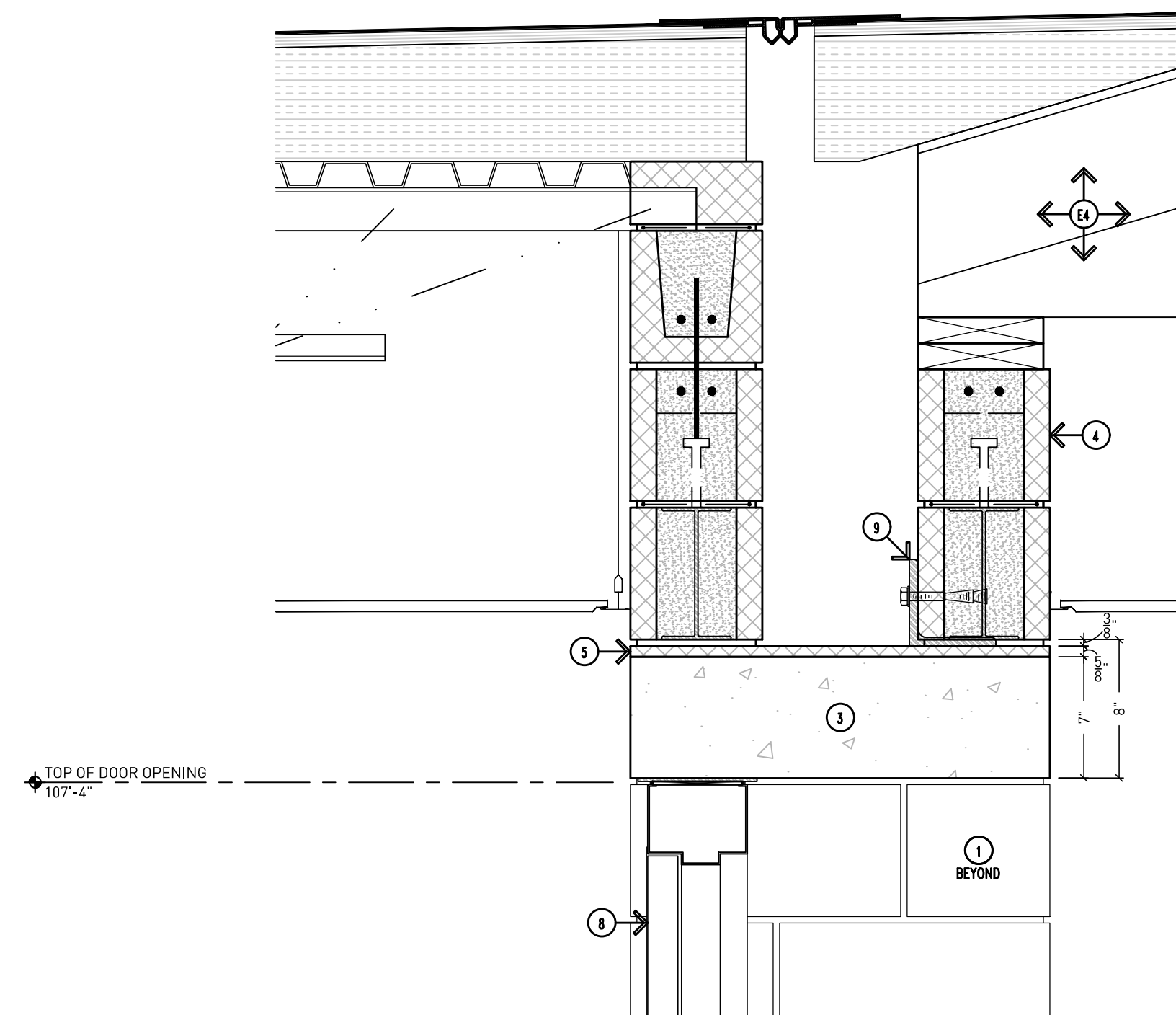
R1. EXISTING FLOOR MINIMUM 4" BELOW FINISH FLOOR AT LOCATION OF NEW WALL.

DRAWING NOTES:

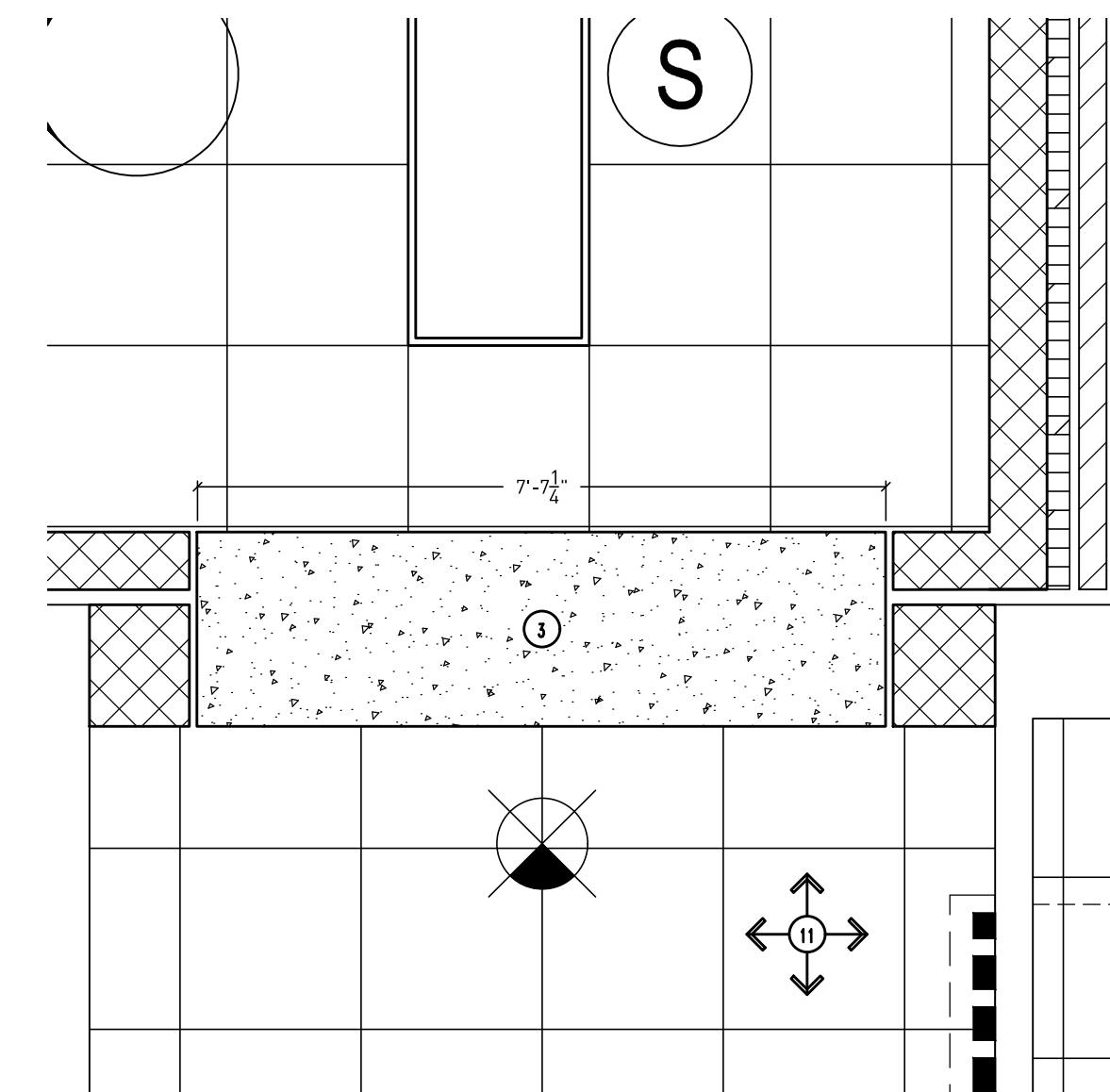
- 1. PORTAL WALL PIERS.
- 2. MINIMUM 1" GAP AT ALL SIDES OF THE PORTAL WALL. REFER TO SHEET A9.62 FOR FURTHER INFORMATION ON FIRESTOPPING.
- 3. C.I.P. PORTAL LID ABOVE. REFER TO STRUCTURAL DRAWINGS.
- 4. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW). TOOTH-IN AS NECESSARY.
- 5. FIRE STOP - REFER TO SHEET A9.62 FOR FURTHER INFORMATION ON FIRESTOPPING.
- 6. MINIMUM 4" CONCRETE PATCH ABOVE FOUNDATION AT LOCATION OF NEW WALL.
- 7. TRANSITION STRIP.
- 8. DOOR, FRAME, AND HARDWARE. REFER TO DOOR SCHEDULE AND SPECIFICATIONS.
- 9. 5" x 5" BRICK ANGLE TO SUPPORT EXISTING TO REMAIN BRICK ABOVE PORTAL WALL.
- 10. WALL BASE. REFER TO FINISH SCHEDULE.
- 11. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.



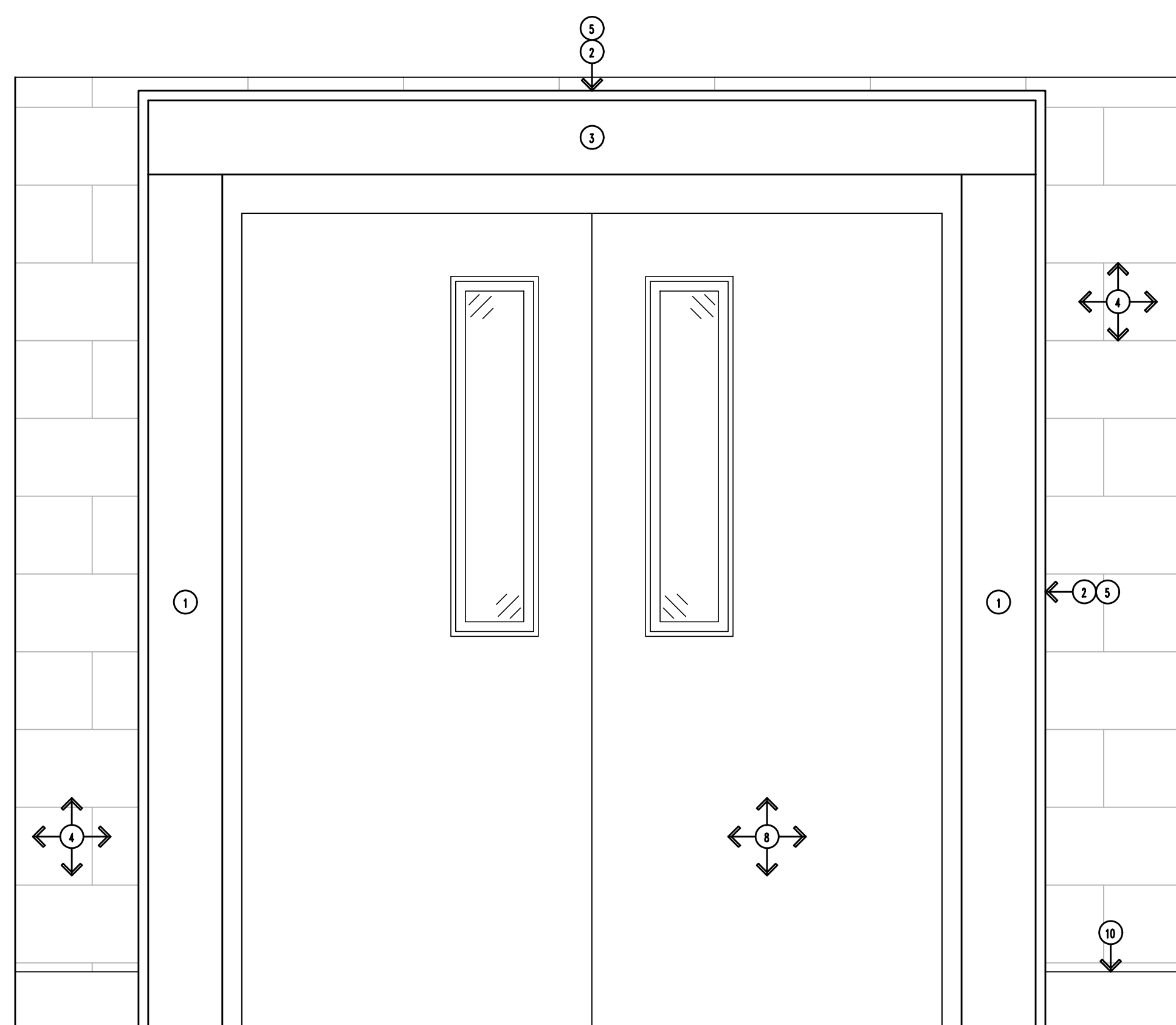
6 Portal A - New Work Elevation (Existing Side)
Scale: 1"=1'-0"



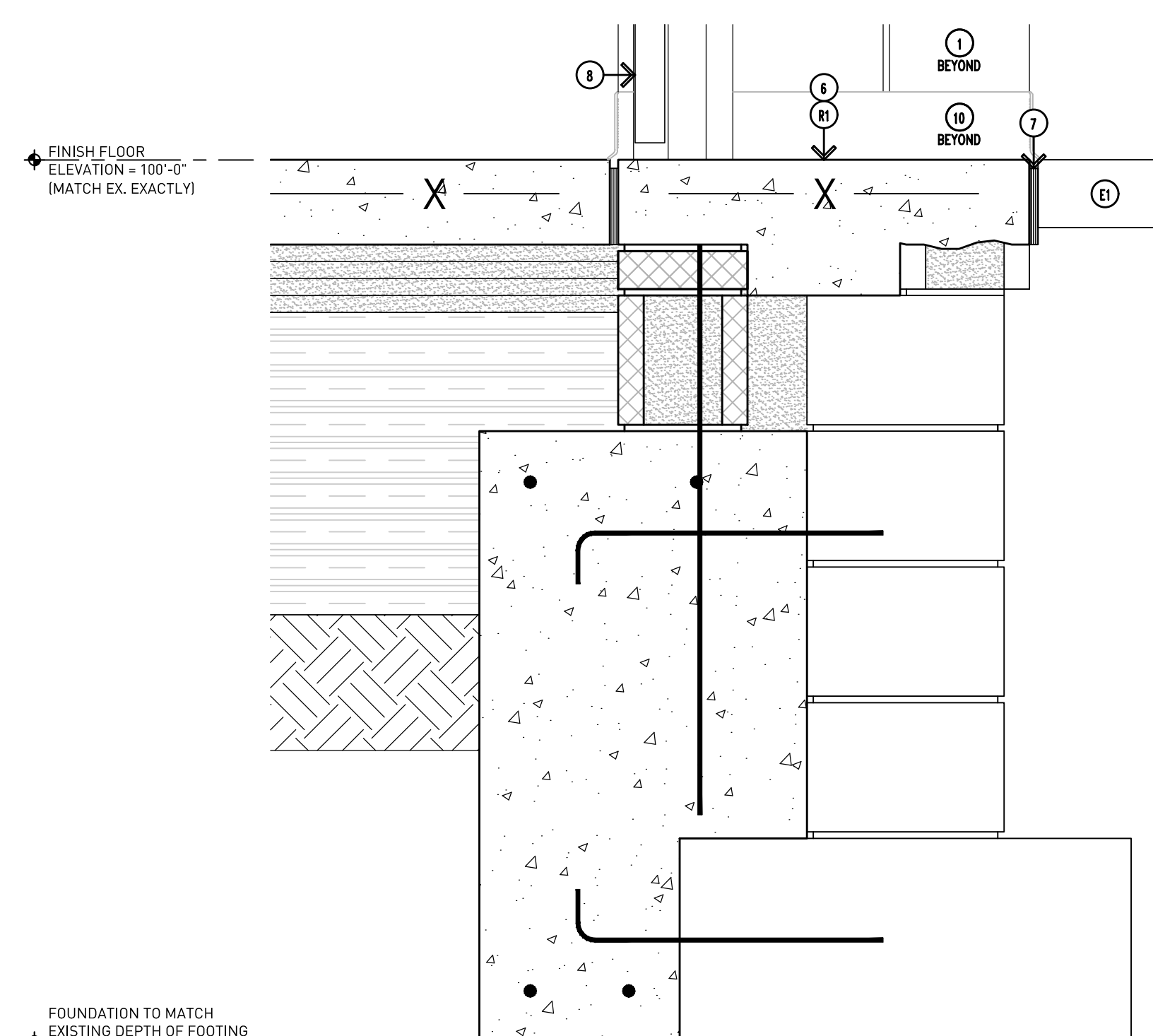
4 Portal A - Door Head Detail
Scale: 1-1/2"=1'-0"



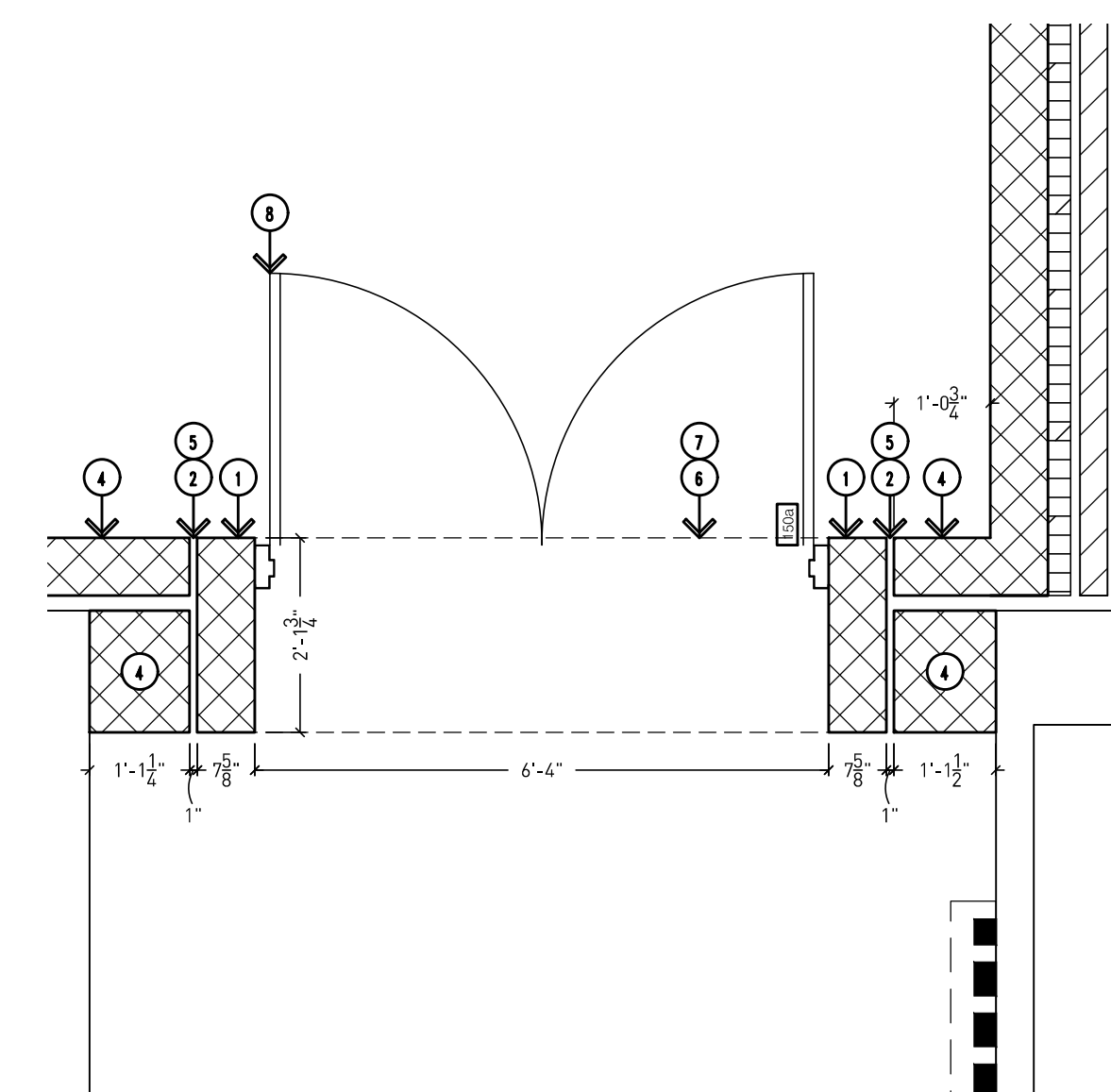
2 Portal A - Enlarged RCP
Scale: 1/2"=1'-0"



5 Portal A - New Work Elevation (Addition Side)
Scale: 1"=1'-0"



3 Portal A - Base of Wall
Scale: 1-1/2"=1'-0"



1 Portal A - Enlarged Floor Plan
Scale: 1/2"=1'-0"



Bidding and Permits: 31 July 2023



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A9.65

GENERAL NOTES:

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

EXISTING TO REMAIN NOTES:

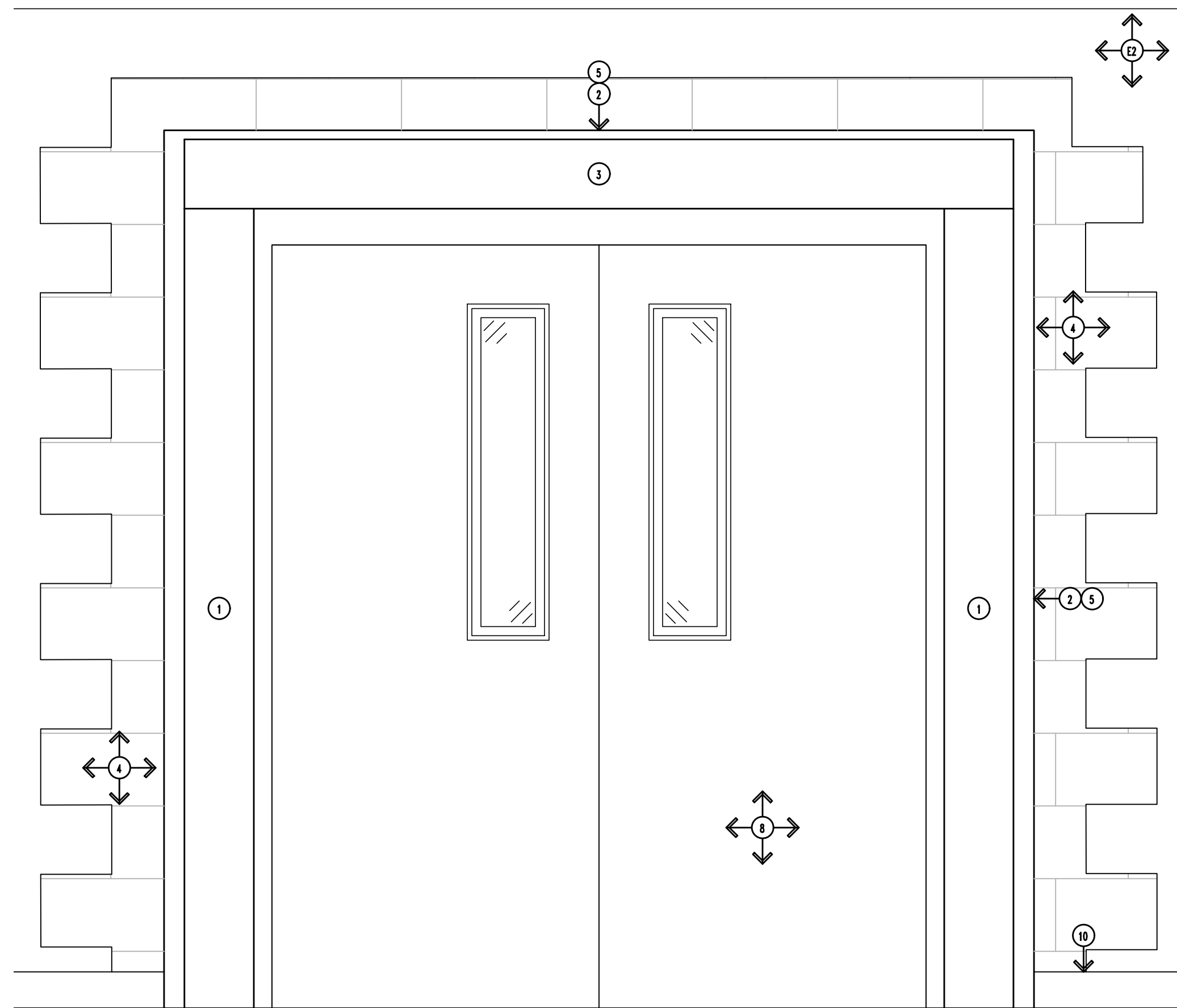
- E1. CONCRETE FLOOR SLAB - EXACT CONDITIONS UNKNOWN.
- E2. CMU BLOCK - EXACT CONDITIONS UNKNOWN.
- E3. BRICK VENEER - EXACT CONDITIONS UNKNOWN.
- E4. ROOF, ROOF STRUCTURE, AND ROOF DECK - EXACT CONDITIONS UNKNOWN.
- E5. WALL INSULATION - EXACT CONDITIONS UNKNOWN.

REMOVAL NOTES:

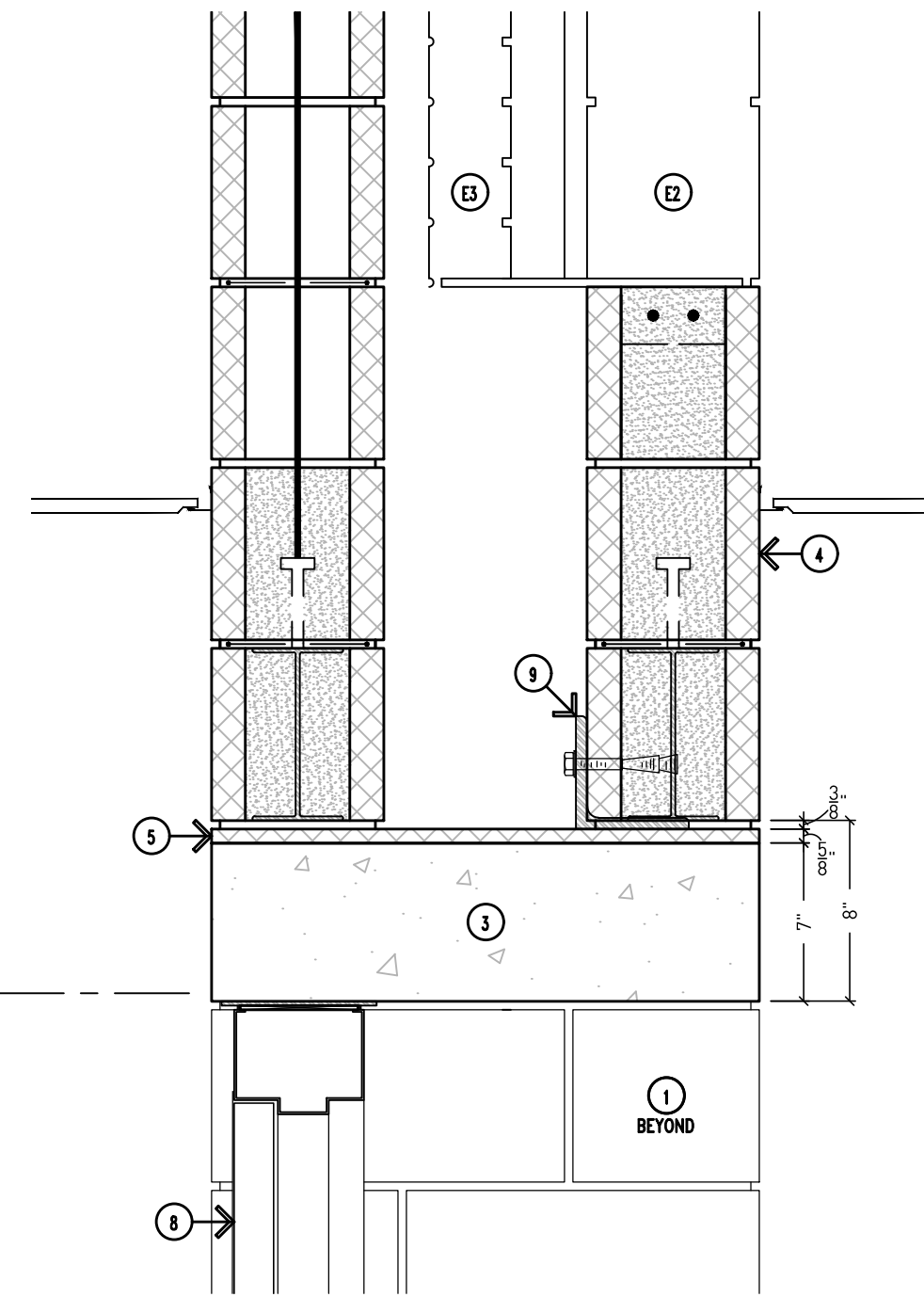
- R1. EXISTING FLOOR MINIMUM 4" BELOW FINISH FLOOR AT LOCATION OF NEW WALL.

DRAWING NOTES:

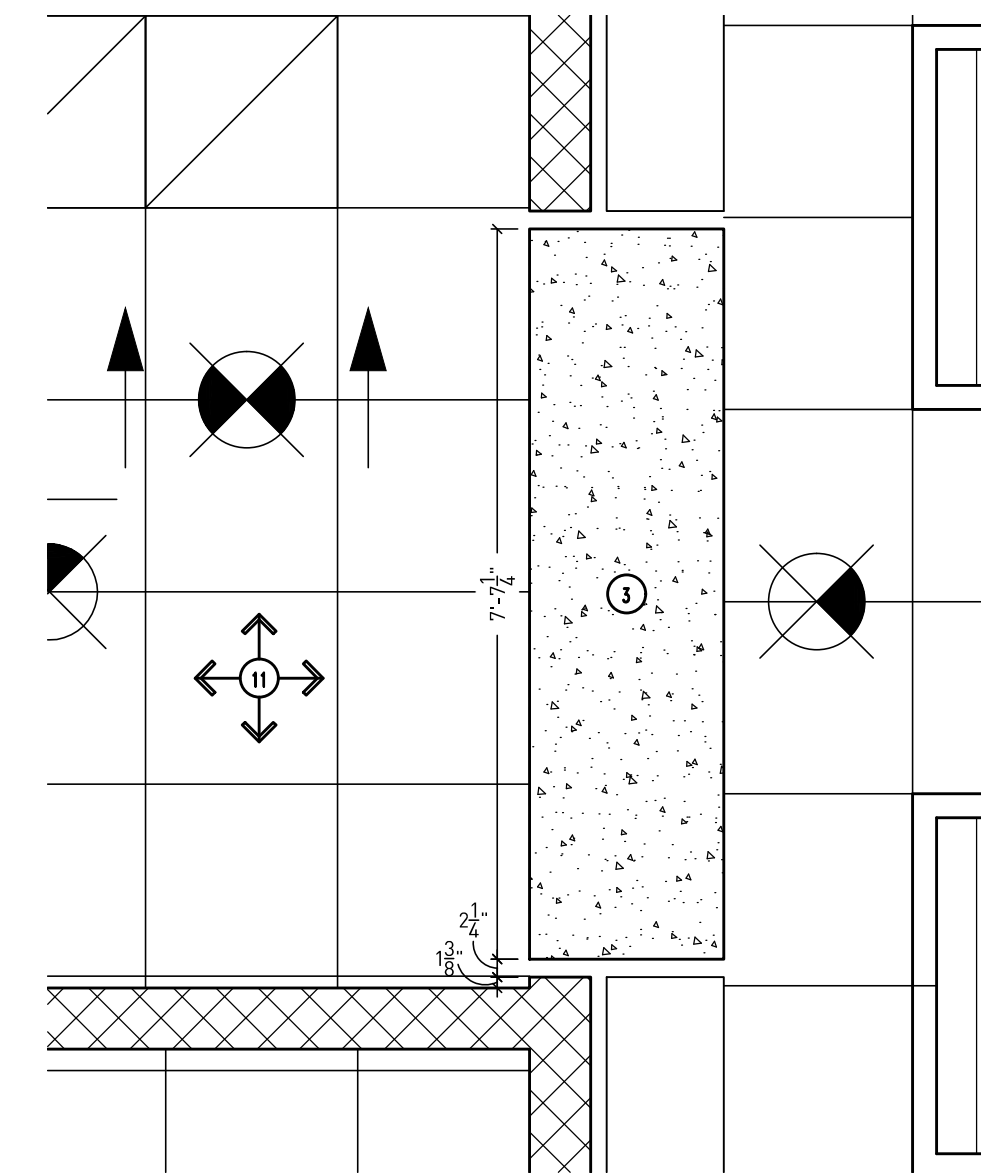
- 1. PORTAL WALL PIERS.
- 2. MINIMUM 1" GAP AT ALL SIDES OF THE PORTAL WALL. REFER TO SHEET A9.62 FOR FURTHER INFORMATION ON FIRESTOPPING.
- 3. C.I.P. PORTAL LID ABOVE. REFER TO STRUCTURAL DRAWINGS.
- 4. CMU MASONRY BLOCK (PAINT ALL SURFACES EXPOSED TO VIEW). TOOTH-IN AS NECESSARY.
- 5. FIRE STOP - REFER TO SHEET A9.62 FOR FURTHER INFORMATION ON FIRESTOPPING.
- 6. MINIMUM 4" CONCRETE PATCH ABOVE FOUNDATION AT LOCATION OF NEW WALL.
- 7. TRANSITION STRIP.
- 8. DOOR, FRAME, AND HARDWARE. REFER TO DOOR SCHEDULE AND SPECIFICATIONS.
- 9. 5" x 5" BRICK ANGLE TO SUPPORT EXISTING TO REMAIN BRICK ABOVE PORTAL WALL.
- 10. WALL BASE. REFER TO FINISH SCHEDULE.
- 11. ACOUSTICAL CEILING TILE IN PREFINISHED METAL GRID SYSTEM ATTACHED TO BUILDING STRUCTURE ABOVE.



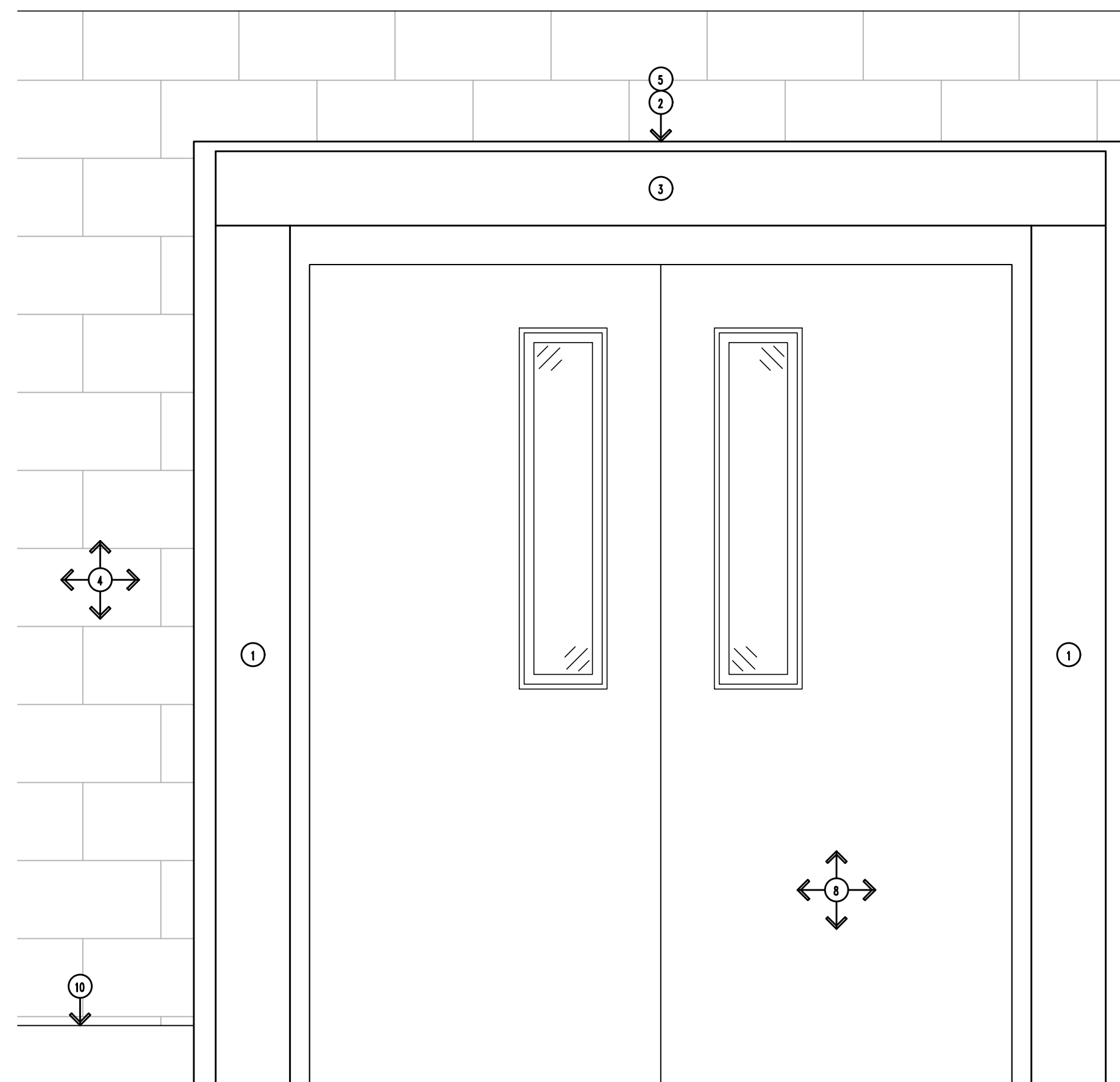
6 Portal B - New Work Elevation (Existing Side)
Scale: 1"=1'-0"



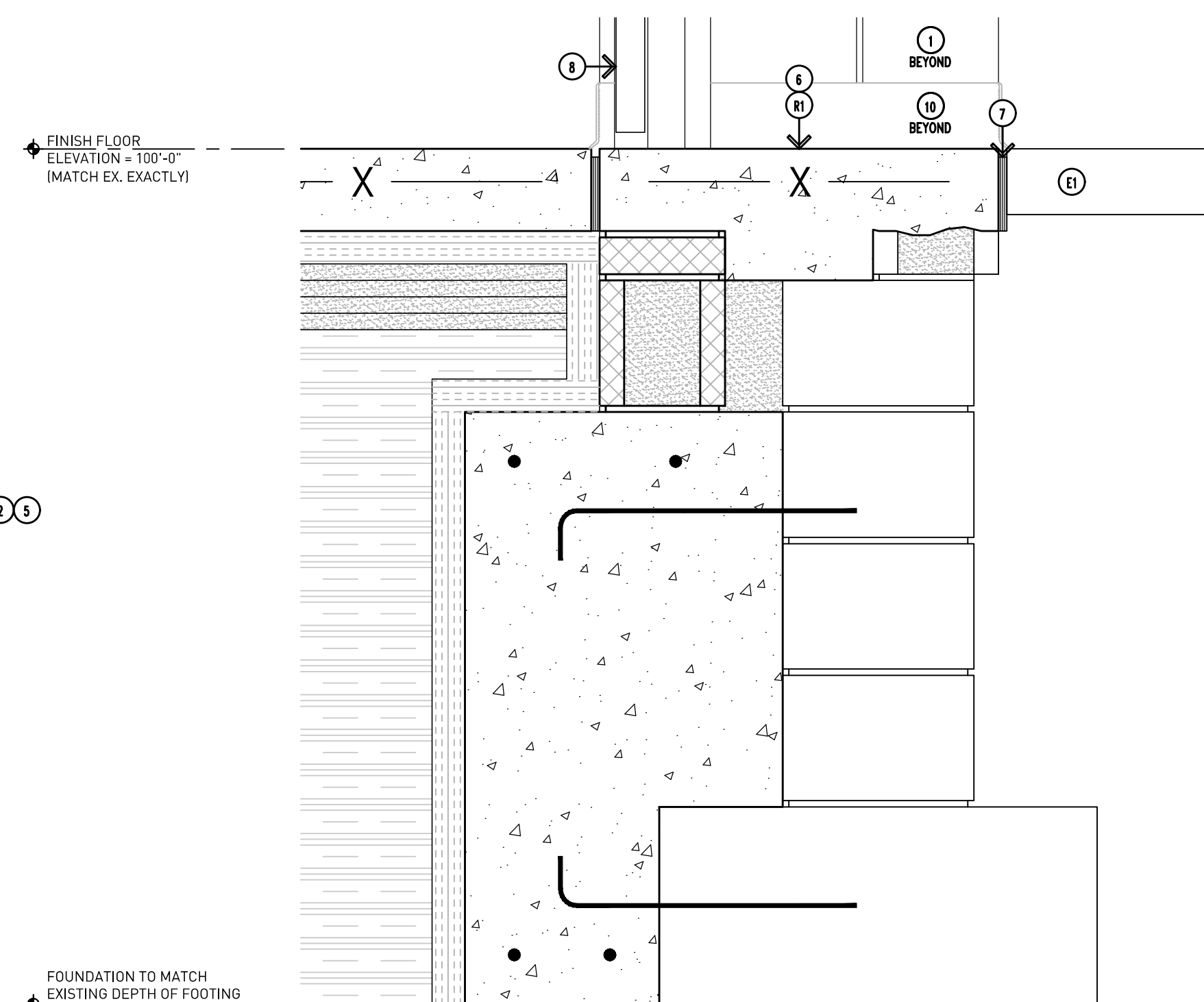
4 Portal B - Door Head Detail
Scale: 1-1/2"=1'-0"



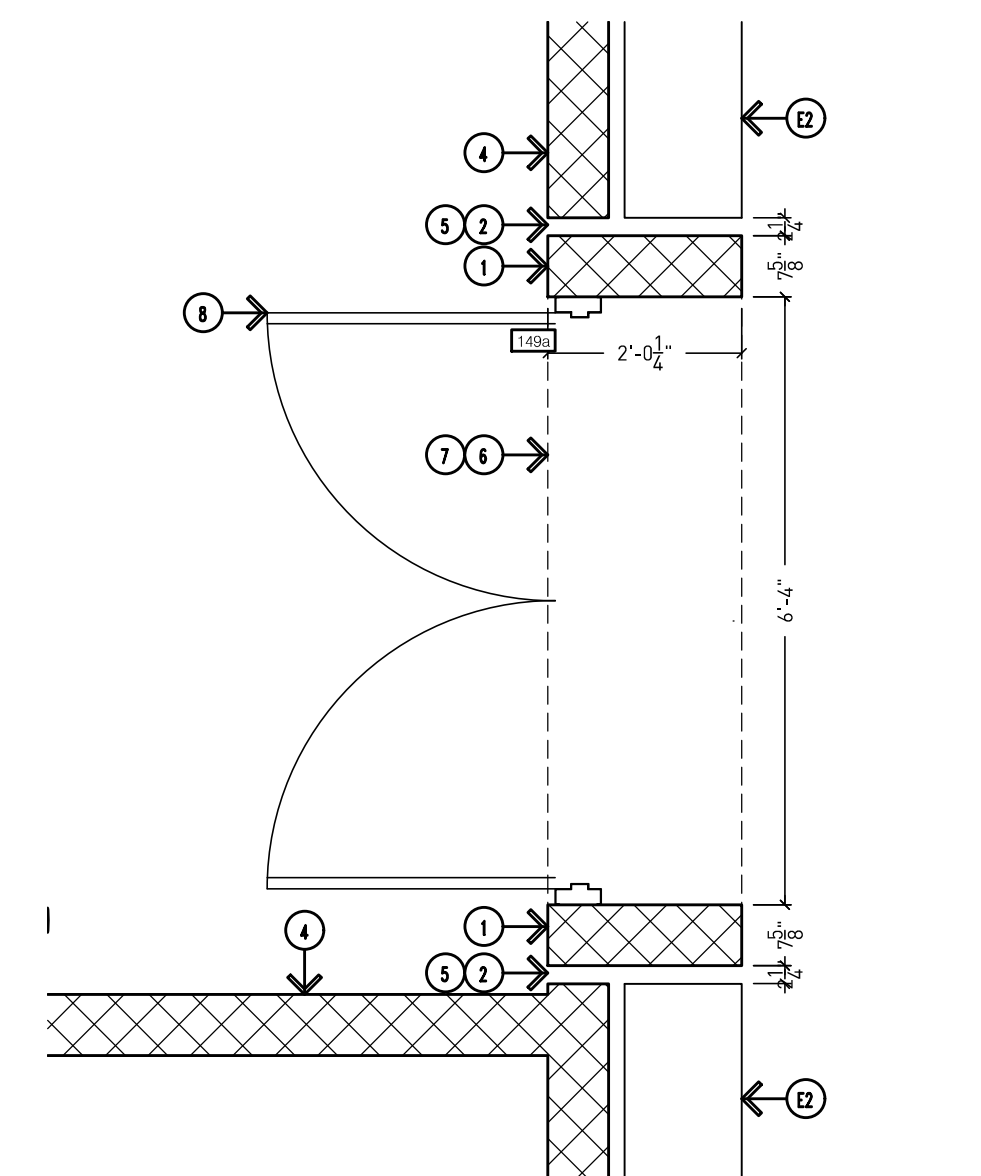
2 Portal B - Enlarged RCP
Scale: 1/2"=1'-0"



5 Portal B - New Work Elevation (Addition Side)
Scale: 1"=1'-0"



3 Portal B - Base of Wall
Scale: 1-1/2"=1'-0"



1 Portal B - Enlarged Floor Plan
Scale: 1/2"=1'-0"



Bidding and Permits: 31 July 2023



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

A9.66

MECHANICAL ABBREVIATION LIST

Table with 4 columns: ABBREVIATION, DESCRIPTION, ABBREVIATION, DESCRIPTION. Lists various mechanical components and their abbreviations, such as A for compressed air, B for building automation system, and C for common.

TEMPERATURE CONTROL - PARTIAL SYMBOLS LIST

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists symbols for temperature control components like CO2, CO, DP1, FM, and H.

NOTE: LIST OF ADDITIONAL SYMBOLS & ABBREVIATIONS ASSOCIATED WITH TEMPERATURE CONTROLS ARE IDENTIFIED ON TC DRAWINGS.

MECHANICAL SYMBOL LIST

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists symbols for piping, ductwork, and mechanical components like valves, dampers, and diffusers.

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

MECHANICAL DRAWING INDEX

Table with 2 columns: SHEET NO., SHEET TITLE. Lists sheet numbers and titles such as M0.01 MECHANICAL STANDARDS AND DRAWING INDEX and M0.11 PLUMBING DEMOLITION PLAN (PART A).

STANDARD METHODS OF NOTATION

Diagrammatic notation key showing symbols for supply diffusers, registers, elbows, ducts, and valves with their corresponding schedule or designations.

Diagrammatic notation key for sheet identification, including symbols for new vs. existing components, section or enlarged plans, and match lines.

9:\2022\2022-04-19-00\CAD\2022-04-19-MD-IND.dwg, M.O1, 7/26/2023 3:49:51 PM, Dominic P. Maceeri, Peter Basso Associates Inc.

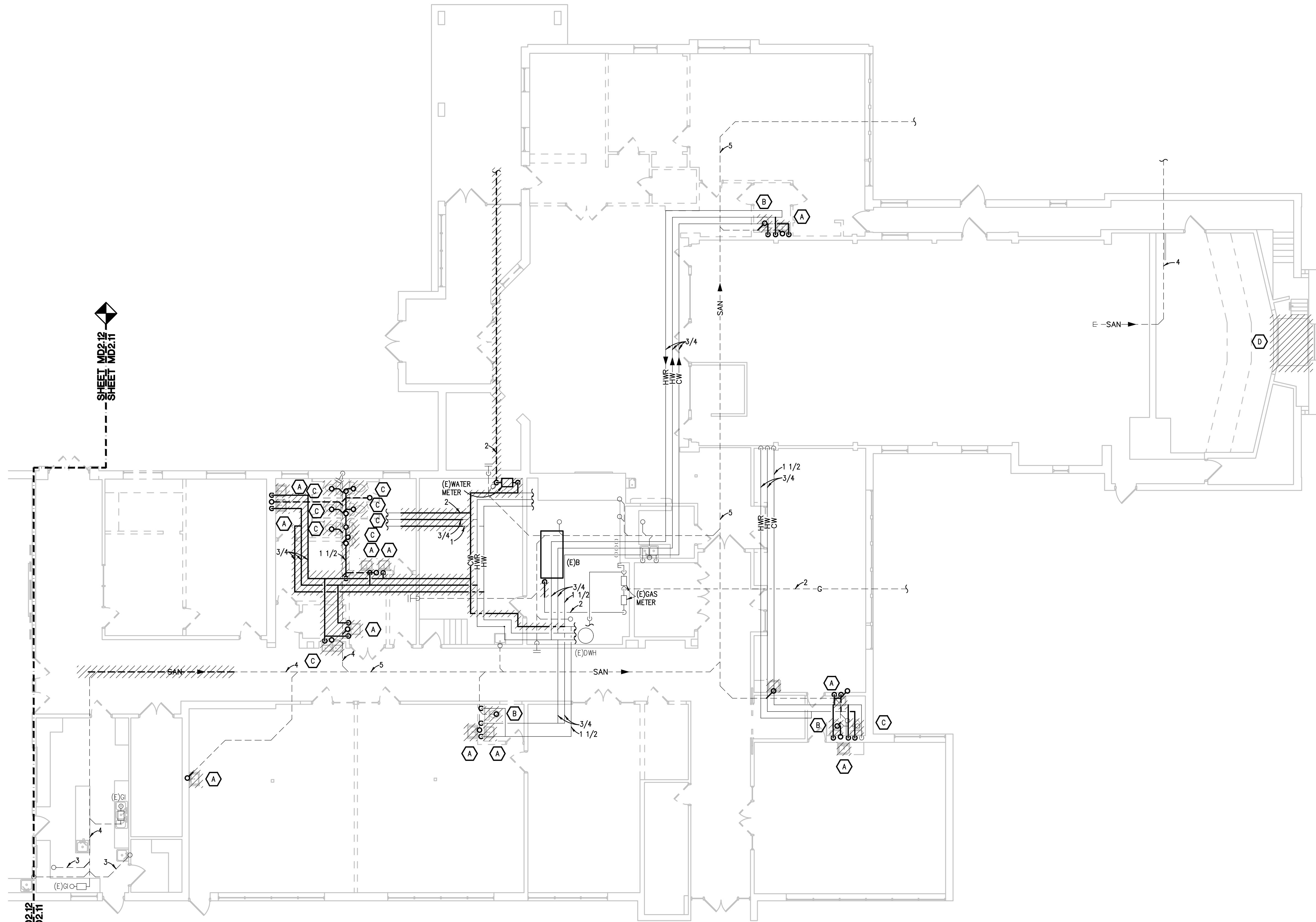
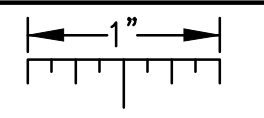
Bidding and Permits: 31 July 2023
Owner Review: 14 July 2023
Design Development: 08 May 2023

MECHANICAL STANDARDS AND DRAWING INDEX
EHRESMAN ARCHITECTS
Peter Basso Associates Inc CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48068-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No. 2022.0419

Project No. 3221

M0.01

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



MECHANICAL DEMOLITION GENERAL NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION KEY NOTES:

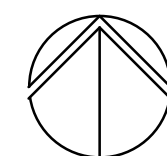
- A. DEMOLISH EXISTING PLUMBING FIXTURE AND ASSOCIATED CW, HW, SAN, AND VENT PIPING AND CAP IN A CONCEALED MANNER.
- B. DEMOLISH EXISTING PLUMBING FIXTURE AND ASSOCIATED CW, SAN, AND VENT PIPING AND CAP IN A CONCEALED MANNER.
- C. DEMOLISH EXISTING PLUMBING FIXTURE AND PREPARE CW, SAN, AND VENT FOR RECONNECTION IN NEW WORK.
- D. ALTERNATE NO. 1: DEMOLISH EXISTING BAPTISMAL FONT AND CAP CW, HW, SAN, AND VENT PIPING IN A CONCEALED MANNER. BASE BID: CAMERA AND DOCUMENT EXISTING UNDERGROUND SANITARY SERVING FONT.

g:\2022\2022-04-19-00\CAD\2022-04-19-MD2-PL1.dwg, MD2.11, 7/28/2023 3:50:03 PM, Dominic P. Mocerri, Peter Basso Associates Inc.

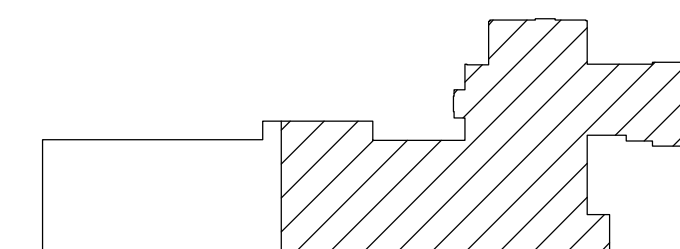
SHEET MD2.12
SHEET MD2.11

SHEET MD2.12
SHEET MD2.11

Bidding and Permits: 31 July 2023
Owner Review: 14 July 2023
Design Development: 08 May 2023



PLUMBING DEMOLITION PLAN (PART A)
SCALE: 1/8" = 1'-0"



KEY PLAN
NO SCALE

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CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

PLUMBING DEMOLITION PLAN (PART A)

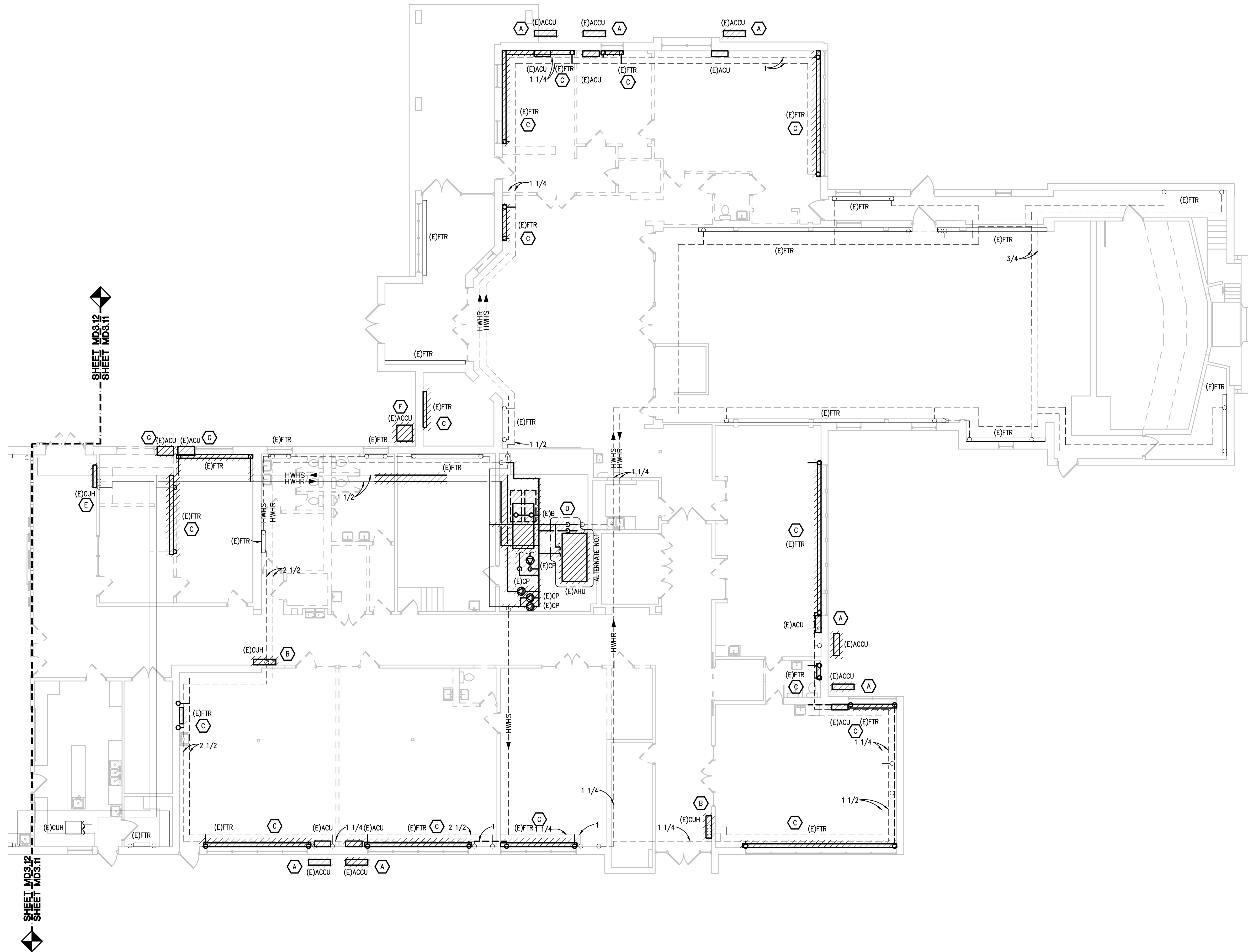
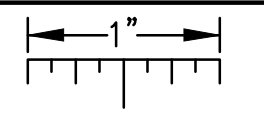


Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

MD2.11

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



MECHANICAL DEMOLITION GENERAL NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION KEY NOTES:

- A. DEMOLISH EXISTING SPLIT SYSTEM ACU AND ACCU AND ASSOCIATED PIPING AND CONTROLS COMPLETE.
- B. DEMOLISH EXISTING CABINET UNIT HEATER AND ASSOCIATED PIPING AND CAP IN A CONCEALED MANNER.
- C. DEMOLISH EXISTING FINNED TUBE RADIATOR AND ASSOCIATED PIPING AND CAP IN A CONCEALED MANNER.
- D. REMOVE EXISTING BOILER, HWHS/R PIPING AS INDICATED, PUMPS, EXPANSION TANKS, SHOT FEEDERS, MASTER 3-WAY VALVE, AND AIR SEPARATOR COMPLETE. REFER TO HOT WATER HEATING SYSTEM PIPING DIAGRAM FOR EXTENT OF NEW WORK.
- E. DEMOLISH EXISTING CABINET UNIT HEATER AND PREPARE PIPING FOR RECONNECTION IN NEW WORK.
- F. DEMOLISH EXISTING CONDENSING UNIT AND CONTROLS COMPLETE.
- G. DEMOLISH EXISTING IN-WALL ACU AND CONTROLS COMPLETE.

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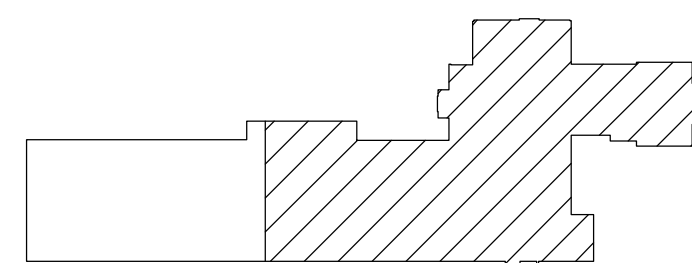
SHEET MD3.12
SHEET MD3.11

SHEET MD3.12
SHEET MD3.11



HVAC PIPING DEMOLITION PLAN (PART A)

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



KEY PLAN
NO SCALE

Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

HVAC PIPING DEMOLITION PLAN (PART A)

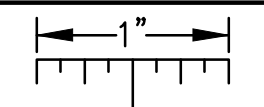


Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

MD3.11

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

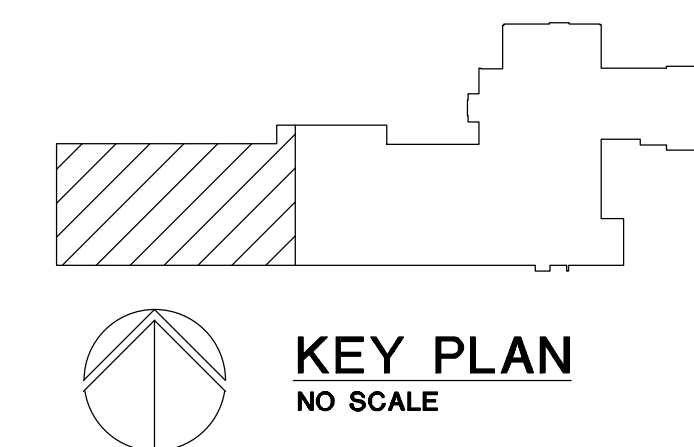
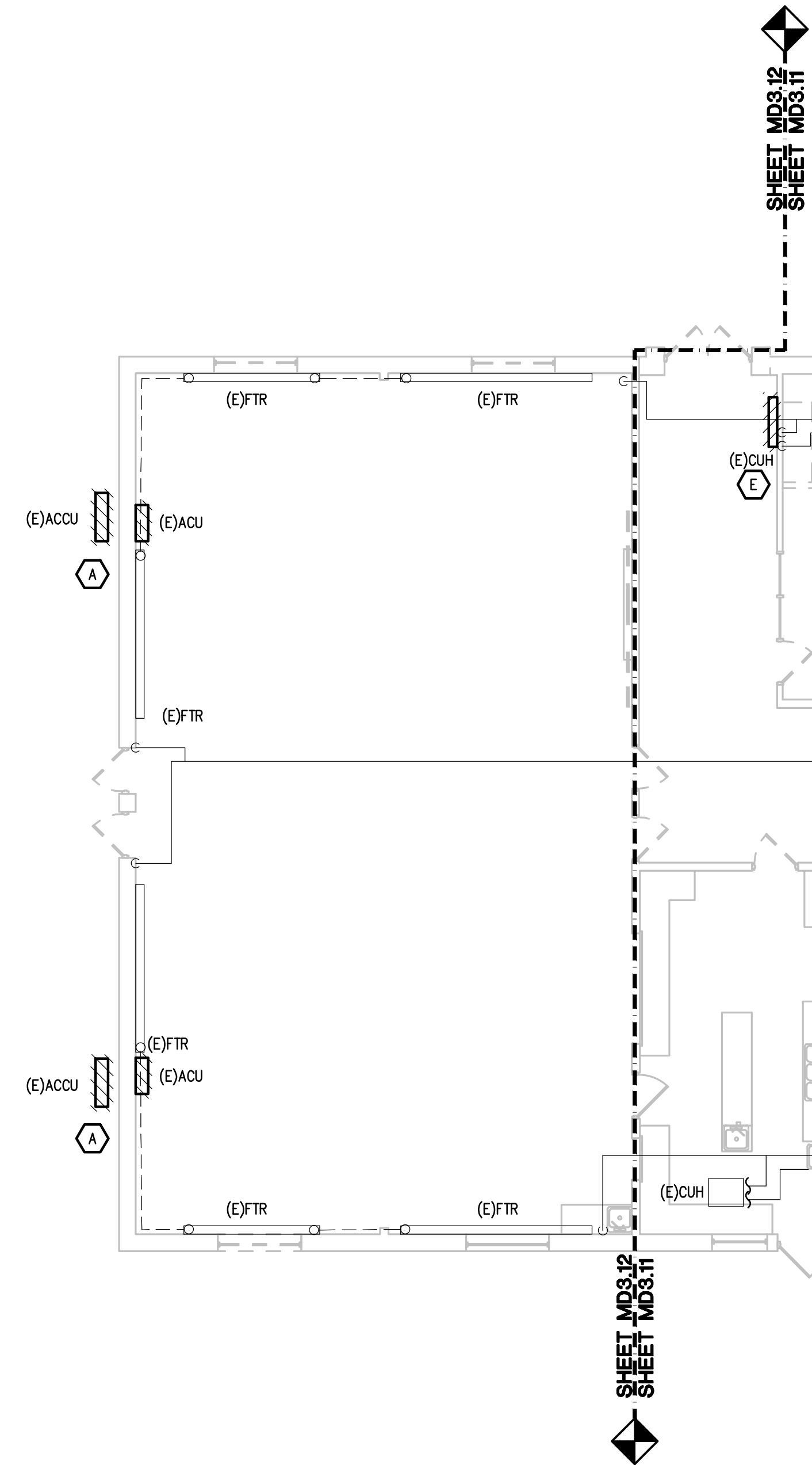


MECHANICAL DEMOLITION GENERAL NOTES:

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DEMOLITION KEY NOTES:

- A. DEMOLISH EXISTING SPLIT SYSTEM ACU AND ACCU AND ASSOCIATED PIPING AND CONTROLS COMPLETE.
- B. DEMOLISH EXISTING CABINET UNIT HEATER AND ASSOCIATED PIPING AND CAP IN A CONCEALED MANNER.
- C. DEMOLISH EXISTING FINNED TUBE RADIATOR AND ASSOCIATED PIPING AND CAP IN A CONCEALED MANNER.
- D. REMOVE EXISTING BOILER, HWHS/R PIPING AS INDICATED, PUMPS, EXPANSION TANKS, SHOT FEEDERS, MASTER 3-WAY VALVE, AND AIR SEPARATOR COMPLETE. REFER TO HOT WATER HEATING SYSTEM PIPING DIAGRAM FOR EXTENT OF NEW WORK.
- E. DEMOLISH EXISTING CABINET UNIT HEATER AND PREPARE PIPING FOR RECONNECTION IN NEW WORK.
- F. DEMOLISH EXISTING CONDENSING UNIT AND CONTROLS COMPLETE.
- G. DEMOLISH EXISTING IN-WALL ACU AND CONTROLS COMPLETE.



HVAC PIPING DEMOLITION PLAN (PART B)

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

Peter Basso Associates Inc.
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5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

HVAC PIPING DEMOLITION PLAN (PART B)

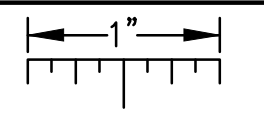


Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

MD3.12

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

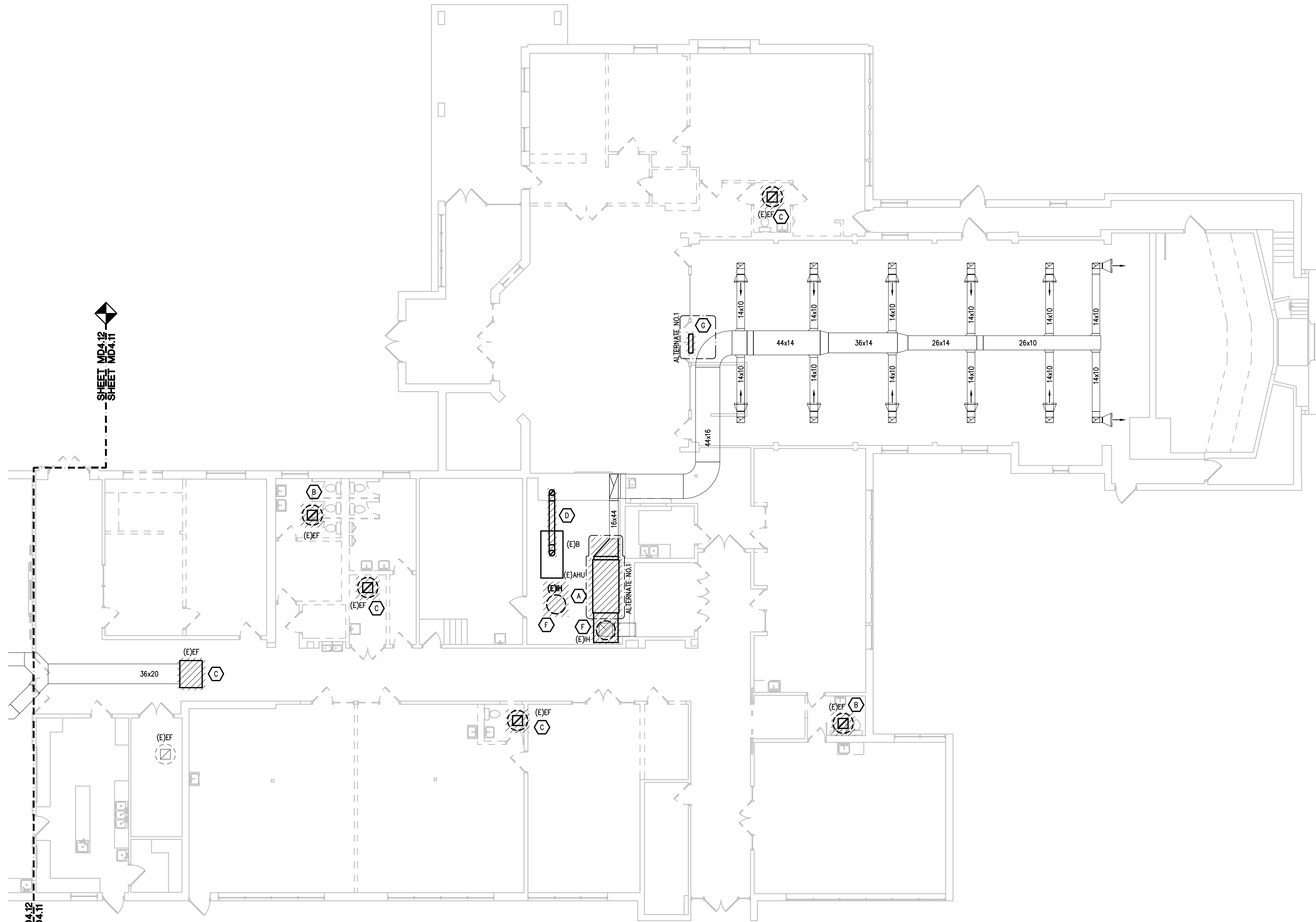


MECHANICAL DEMOLITION GENERAL NOTES:

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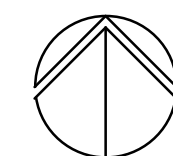
DEMOLITION KEY NOTES:

- A. DEMOLISH EXISTING AIR HANDLING UNIT AND CONTROLS COMPLETE AND PREPARE DUCTWORK FOR RECONNECTION IN NEW WORK.
- B. DEMOLISH EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND CONTROLS COMPLETE AND PREPARE CURB FOR REUSE IN NEW WORK.
- C. DEMOLISH EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND CONTROLS COMPLETE AND CAP CURB.
- D. DEMOLISH EXISTING BOILER FLUE COMPLETE.
- E. DEMOLISH EXISTING RETURN GRILLE COMPLETE AND PREPARE DUCTWORK FOR RECONNECTION IN NEW WORK.
- F. DEMOLISH EXISTING INTAKE HOOD AND PREPARE ROOF CURB FOR NEW WORK.
- G. CAP GRAVITY RELIEF LOUVER.

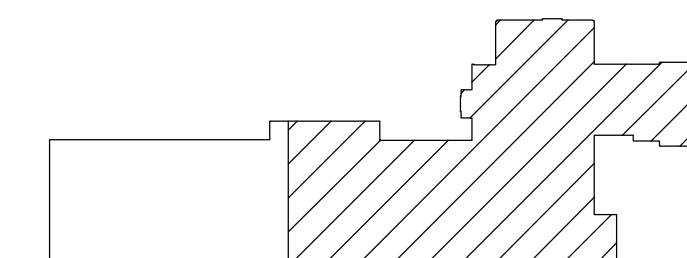


SHEET MD4.12
SHEET MD4.11

SHEET MD4.12
SHEET MD4.11



SHEET METAL DEMOLITION PLAN (PART A)
SCALE: 1/8" = 1'-0"



KEY PLAN
NO SCALE

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5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

SHEET METAL DEMOLITION PLAN (PART A)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

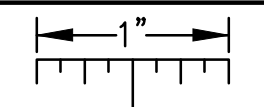
Project No. 3221

MD4.11

Bidding and Permits: 31 July 2023
Owner Review: 14 July 2023
Design Development: 08 May 2023

g:\2022\2022-04-19-00\CAD\2022-04-19-MD4-SH1.dwg, MD4.11, 7/28/2023 3:50:29 PM, Dominic P. Mazeri, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

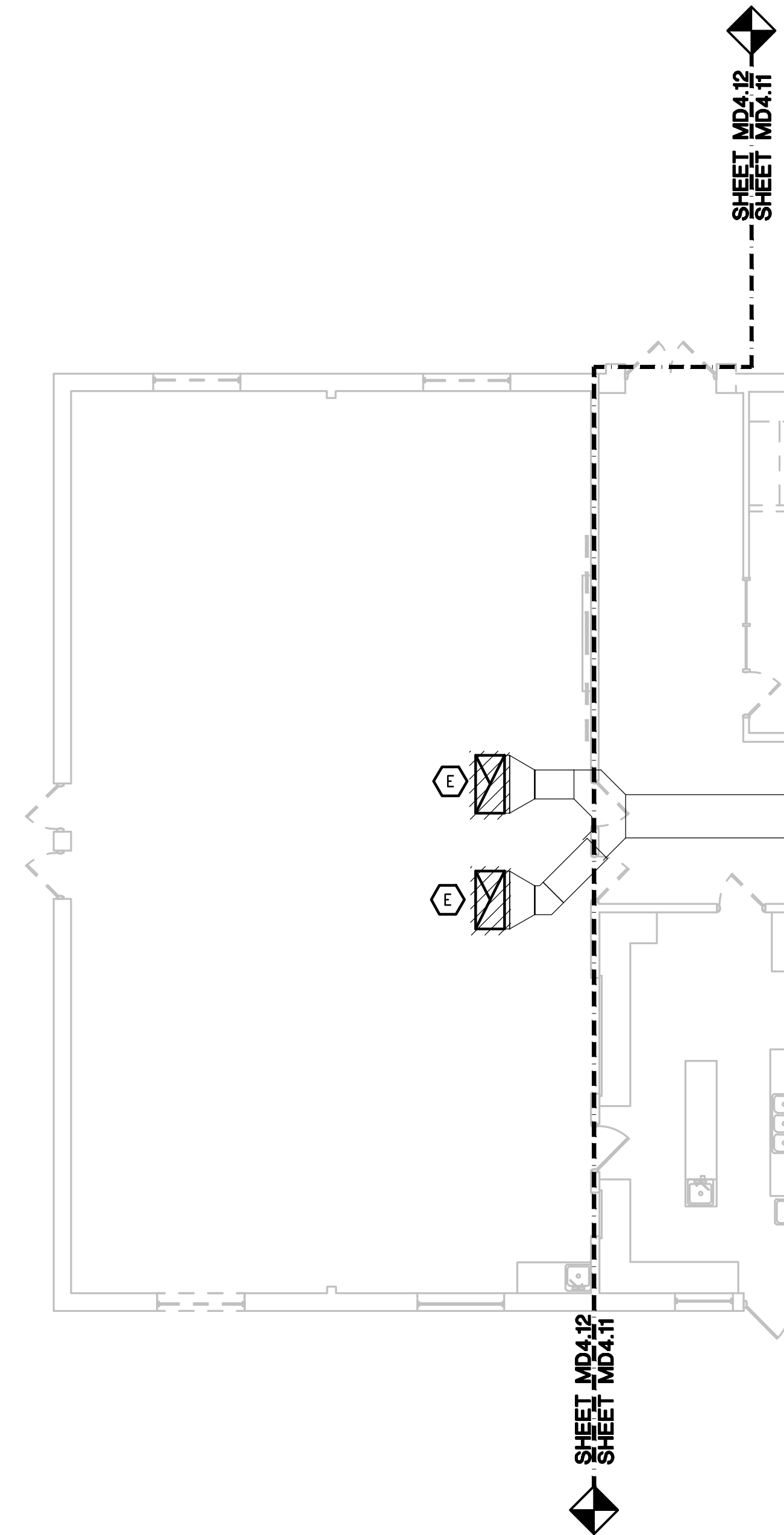


MECHANICAL DEMOLITION GENERAL NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

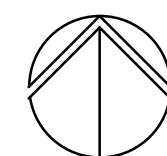
DEMOLITION KEY NOTES:

- A. DEMOLISH EXISTING AIR HANDLING UNIT AND CONTROLS COMPLETE AND PREPARE DUCTWORK FOR RECONNECTION IN NEW WORK.
- B. DEMOLISH EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND CONTROLS COMPLETE AND PREPARE CURB FOR REUSE IN NEW WORK.
- C. DEMOLISH EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND CONTROLS COMPLETE AND CAP CURB.
- D. DEMOLISH EXISTING BOILER FLUE COMPLETE.
- E. DEMOLISH EXISTING RETURN GRILLE COMPLETE AND PREPARE DUCTWORK FOR RECONNECTION IN NEW WORK.
- F. DEMOLISH EXISTING INTAKE HOOD AND PREPARE ROOF CURB FOR NEW WORK.
- G. CAP GRAVITY RELIEF LOUVER.



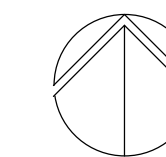
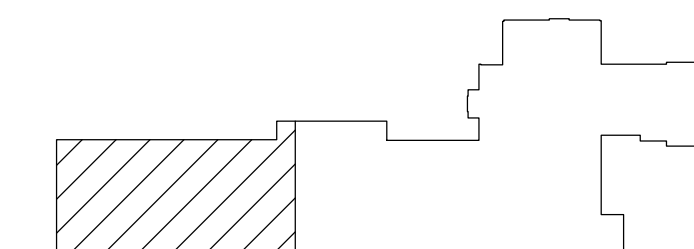
SHEET MD4.12
SHEET MD4.11

SHEET MD4.12
SHEET MD4.11



SHEET METAL DEMOLITION PLAN (PART B)

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



KEY PLAN

NO SCALE

Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

SHEET METAL DEMOLITION PLAN (PART B)

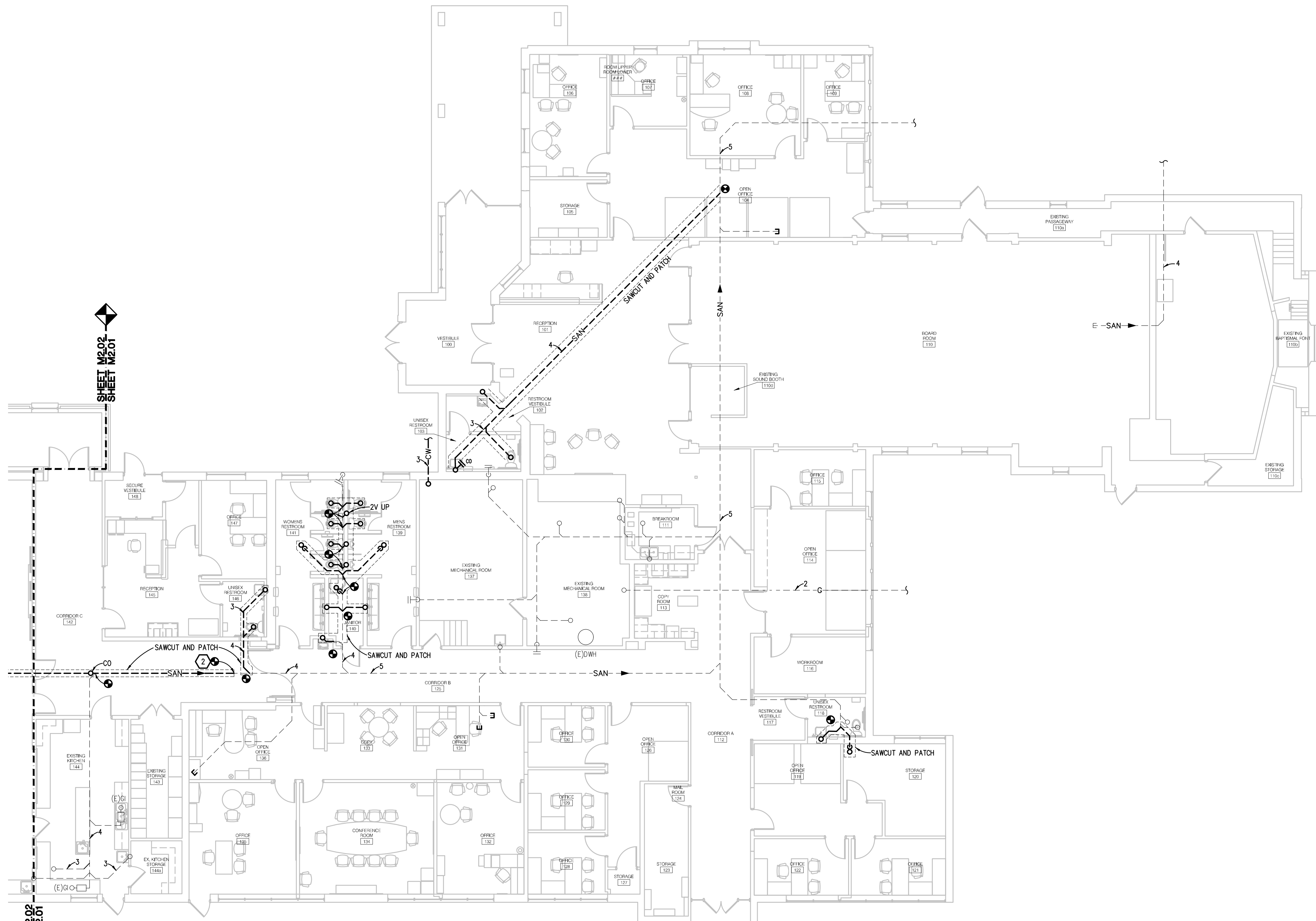
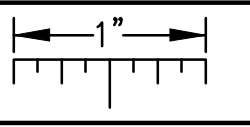


Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

MD4.12

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



PLUMBING GENERAL NOTES:

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2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
8. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
11. WATER SERVICE ENTRANCE PIPING SHALL BE BURIED WITH DEPTH OF COVER OVER TOP OF PIPE OF AT LEAST 12" OR WITH TOP OF PIPE AT LEAST 12" BELOW LEVEL OF MAXIMUM FROST PENETRATION, OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, WHICHEVER IS DEEPEST.

CONSTRUCTION KEY NOTES:

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2. VERIFY ADEQUATE INVERT DEPTH FOR NEW SANITARY PRIOR TO SAWCUTTING AND INSTALLATION.
3. ROUTE CONDENSATE TO FLOOR DRAIN WITHIN BOILER ROOM.
4. TERMINATE OVERFLOW ROOF CONDUCTOR DOWNSPOUT NOZZLE HIGH ON EXTERIOR WALL AND TERMINATE ROOF CONDUCTOR DOWNSPOUT NOZZLE LOW ON EXTERIOR WALL. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS.
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6. PROVIDE AND INSTALL SHEET METAL PIPING ENCLOSURE TO CONCEAL VERTICAL CONDENSATE PIPE. REFER TO DETAIL ON M6.03.

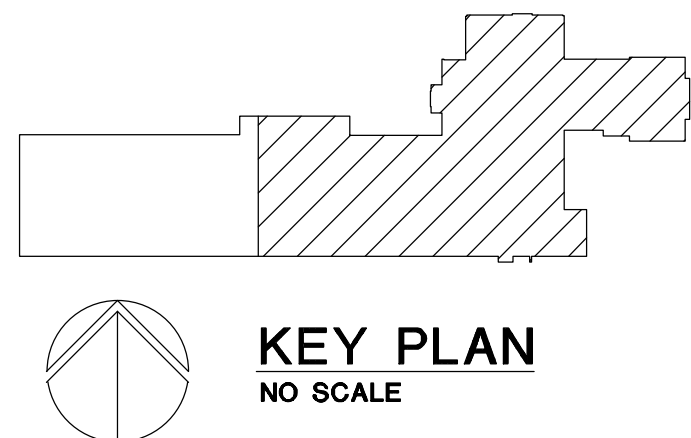
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SHEET M2.02
SHEET M2.01

SHEET M2.02
SHEET M2.01

Bidding and Permits: 31 July 2023
Owner Review: 14 July 2023
Design Development: 08 May 2023

UNDERGROUND PLUMBING PLAN (PART A)
SCALE: 1/8" = 1'-0"



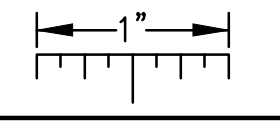
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Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221 M2.01

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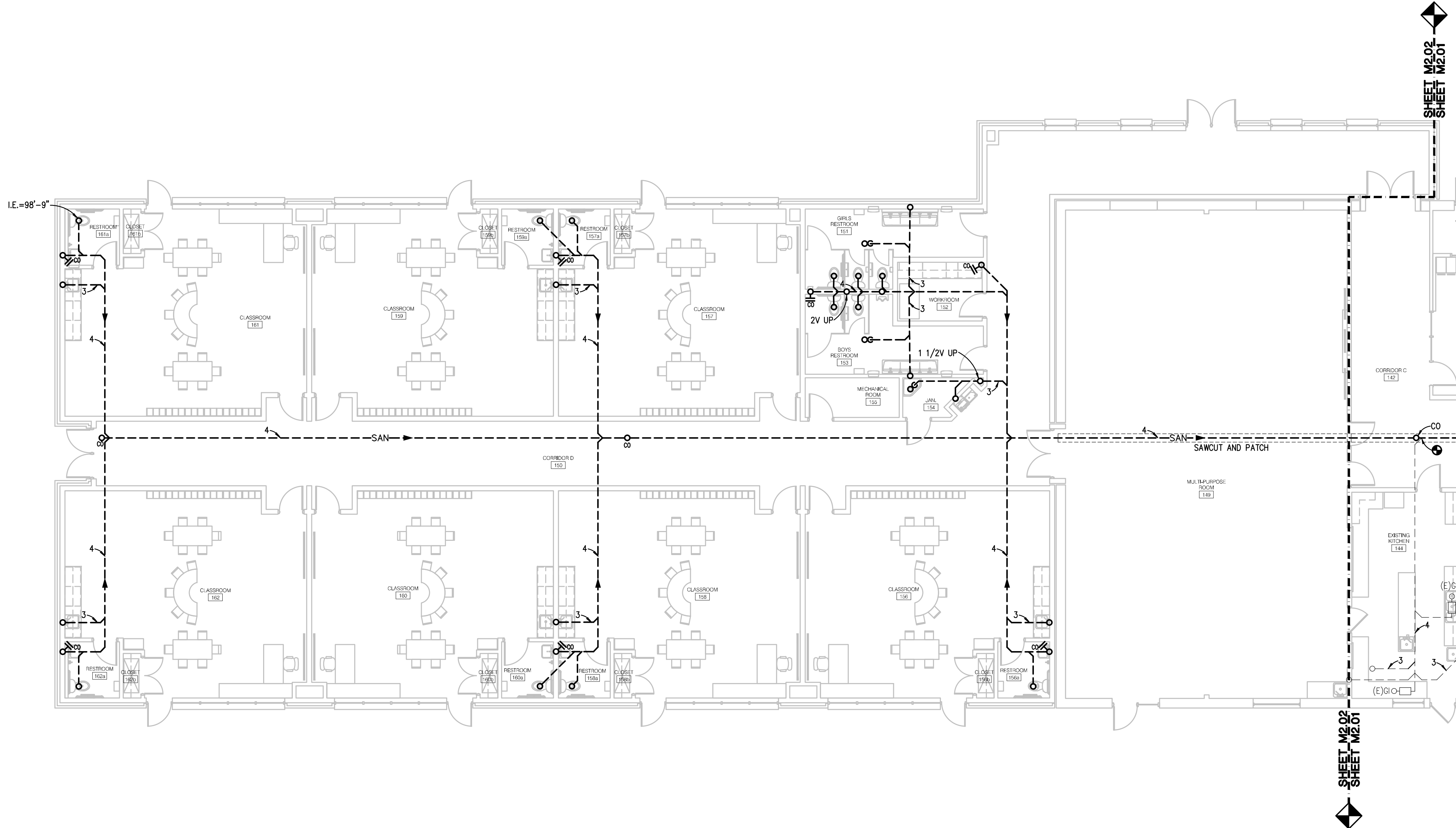


PLUMBING GENERAL NOTES:

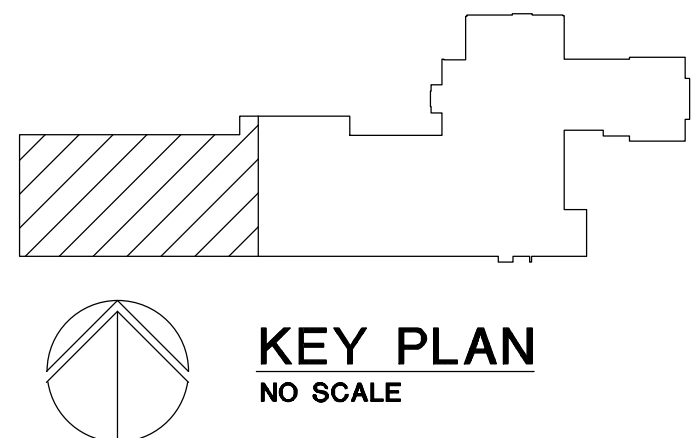
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UNDERGROUND PLUMBING PLAN (PART B)
SCALE: 1/8" = 1' - 0"



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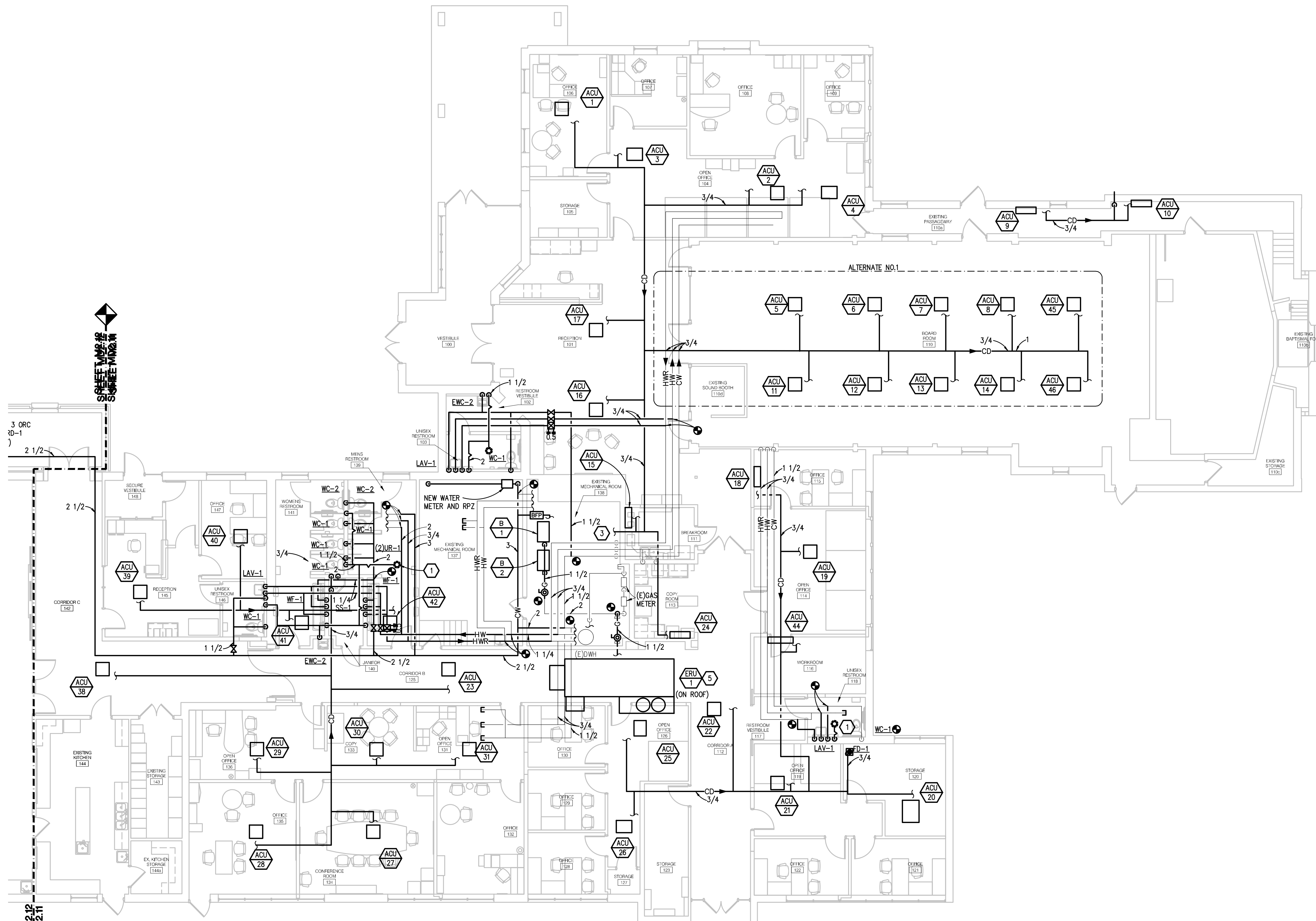
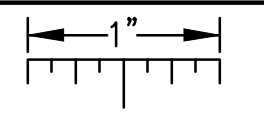
Project No. 3221

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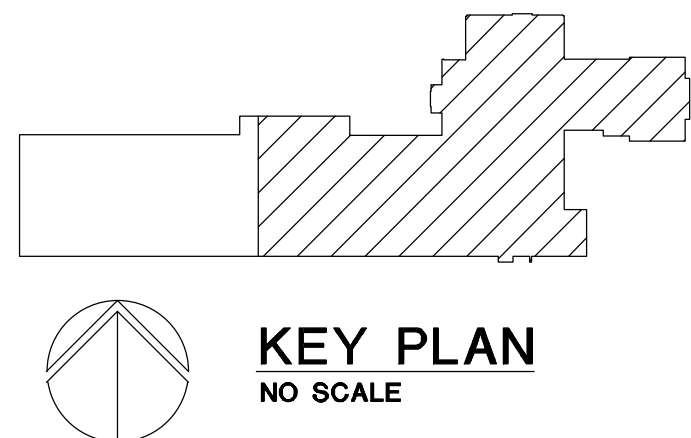
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PLUMBING PLAN (PART A)
SCALE: 1/8" = 1'-0"



Peter Basso Associates Inc.
CONSULTING ENGINEERS
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Troy, Michigan 48098-3276
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Fax: 248-879-0007
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Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

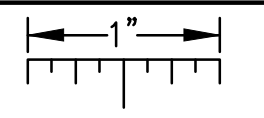
Project No. 3221

M2.11

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Bidding and Permits: 31 July 2023
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Design Development: 08 May 2023

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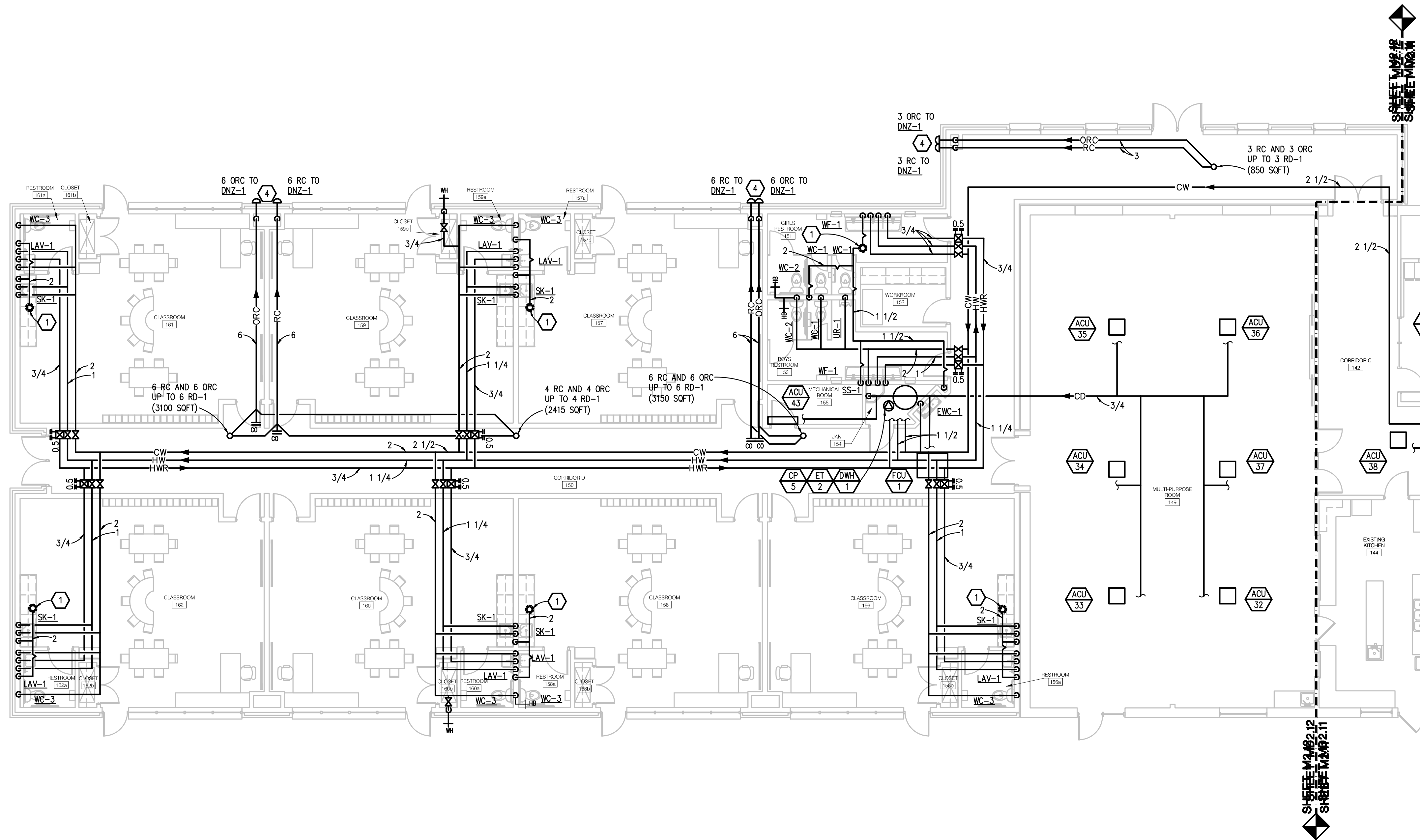


PLUMBING GENERAL NOTES:

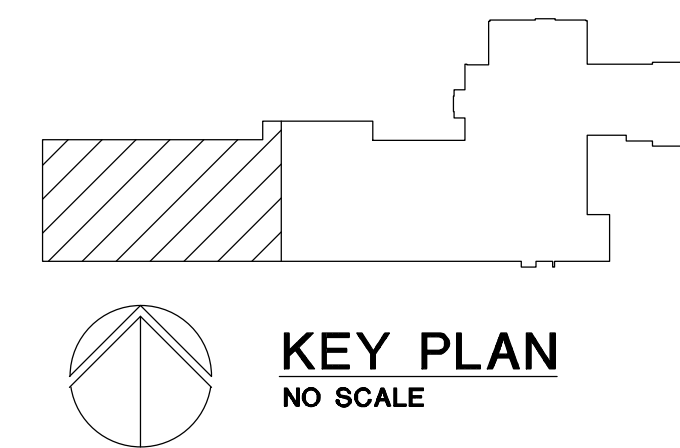
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PLUMBING PLAN (PART B)
SCALE: 1/8" = 1'-0"



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CONSULTING ENGINEERS
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PLUMBING PLAN (PART B)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

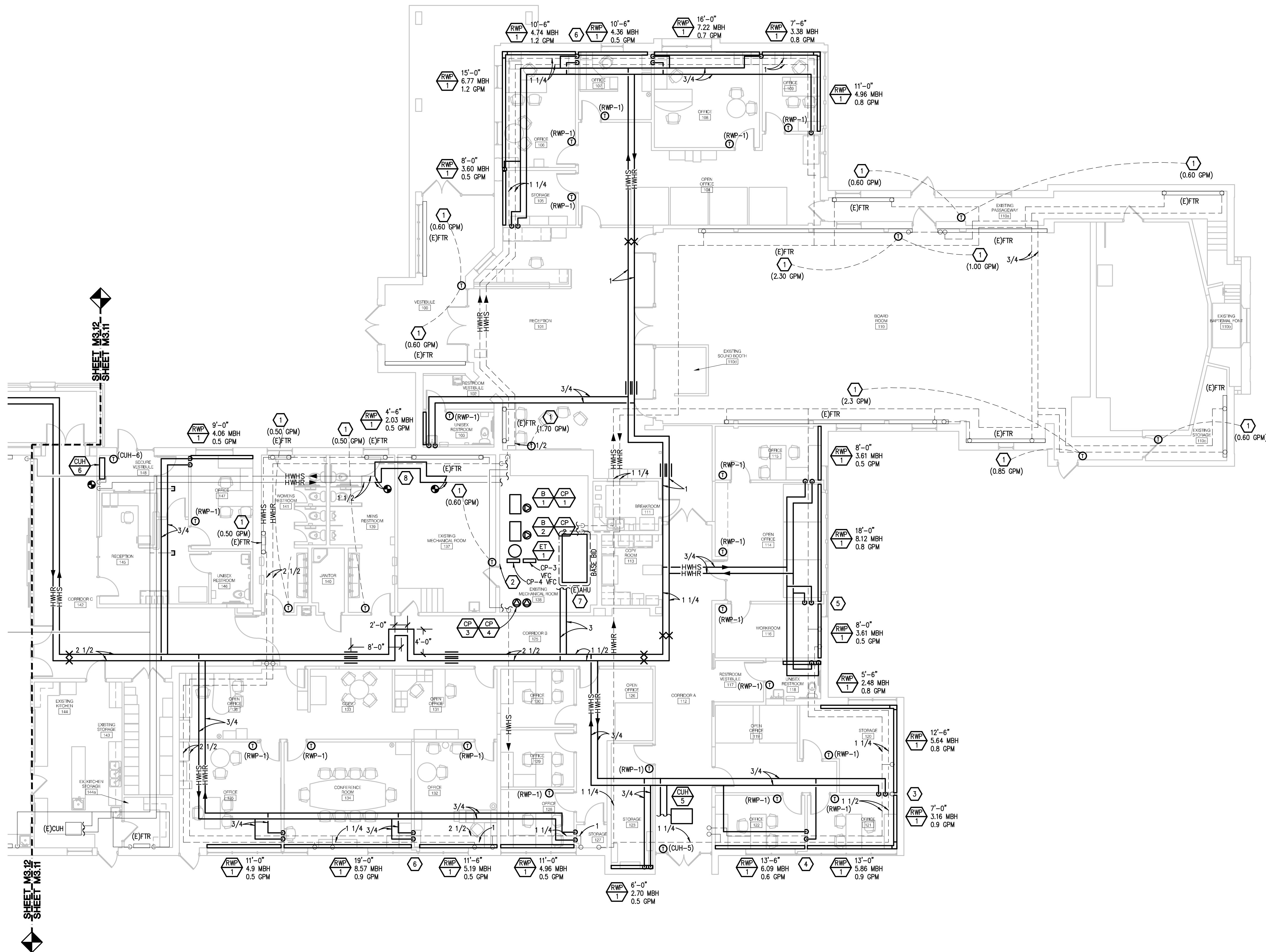
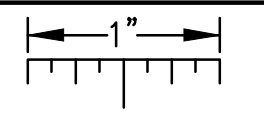
Project No. 3221

M2.12

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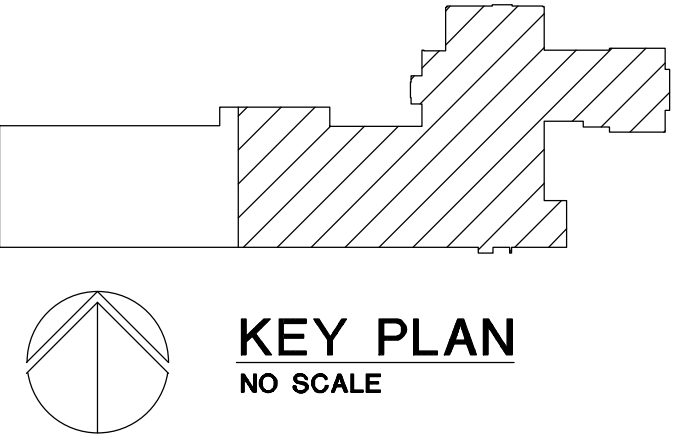
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5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING PIPING SYSTEMS TO STRUCTURAL ENGINEER FOR APPROVAL.
7. COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL TRADES.
8. BRANCH PIPING SERVING TERMINAL UNIT HEATING COILS OR RADIANT CEILING PANELS SHALL BE 3/4" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING MORE THAN ONE TERMINAL UNIT HEATING COIL SHALL BE 1" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING HOT WATER UNIT HEATERS AND CABINET UNIT HEATERS SHALL BE 1" UNLESS OTHERWISE NOTED.
9. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

CONSTRUCTION KEY NOTES:

1. MECHANICAL CONTRACTOR TO REPLACE CONTROL VALVE. REFER TO TEMPERATURE CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.
2. EMERGENCY SHUTDOWN SWITCH.
3. ROUTE 3/4" HWHS LINE DOWN IN NEW WALL TO SERVE RADIANT WALL PANELS TO THE NORTH AND SOUTH.
4. ROUTE 3/4" HWHS LINE DOWN IN NEW WALL TO SERVE RADIANT WALL PANELS TO THE EAST AND WEST.
5. ROUTE 3/4" HWHS AND HWHR LINE DOWN IN NEW WALL TO SERVE RADIANT WALL PANELS TO THE NORTH AND SOUTH.
6. ROUTE 3/4" HWHS AND HWHR LINE DOWN IN NEW WALL TO SERVE RADIANT WALL PANELS TO THE EAST AND WEST.
7. REFER TO HOT WATER HEATING SYSTEM PIPING DIAGRAM FOR REQUIREMENTS.
8. REROUTE HWHS/R PIPING INTO CORNER, COORDINATE WITH ELECTRICAL PHASING. DO NOT ROUTE ABOVE ELECTRICAL EQUIPMENT.

HVAC PIPING PLAN (PART A)
SCALE: 1/8" = 1' - 0"



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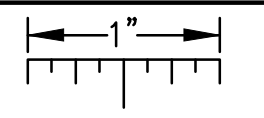
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Administration Relocation and Addition

Project No. 3221 M3.11

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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

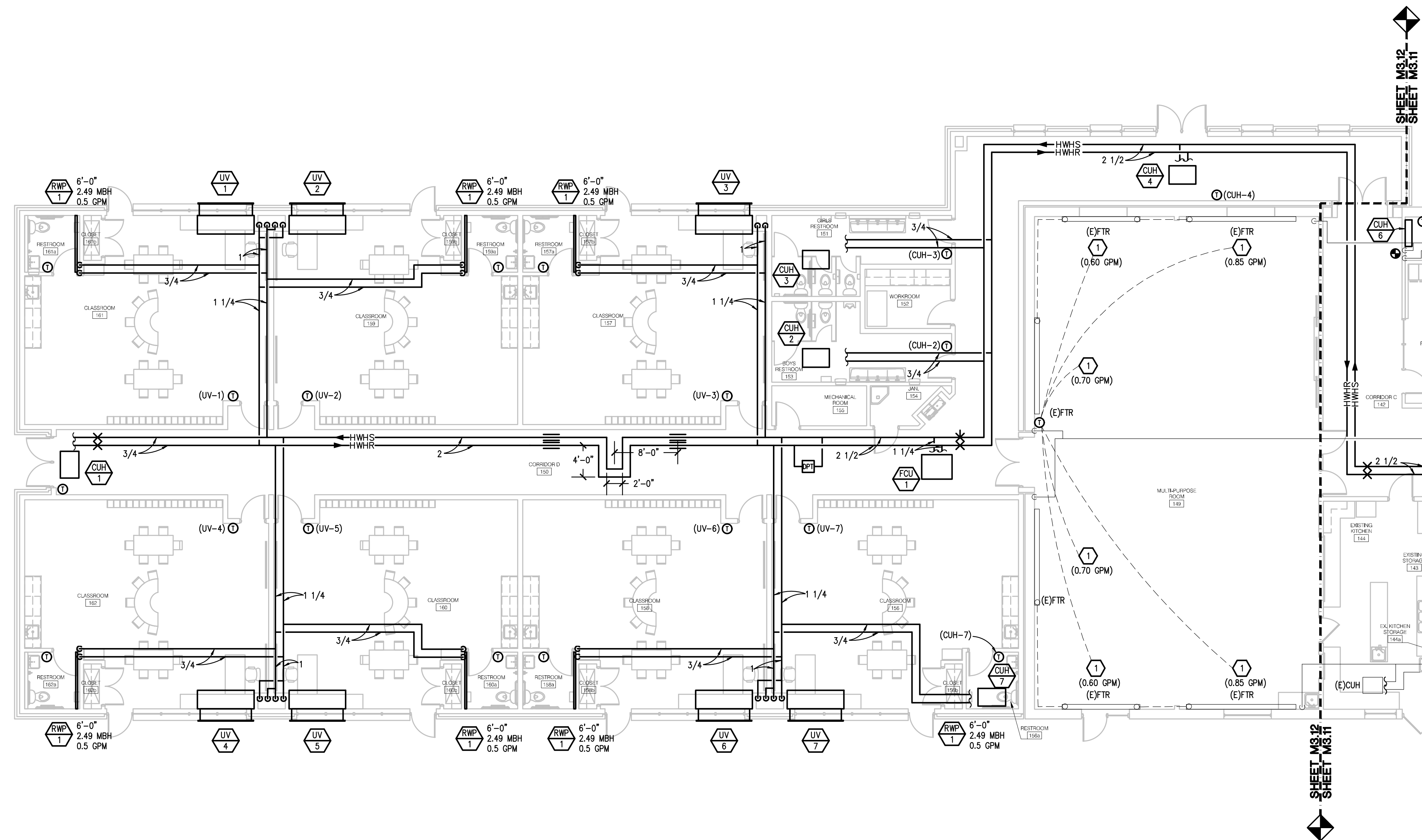


HVAC PIPING GENERAL NOTES:

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4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING PIPING SYSTEMS TO STRUCTURAL ENGINEER FOR APPROVAL.
7. COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL TRADES.
8. BRANCH PIPING SERVING TERMINAL UNIT HEATING COILS OR RADIANT CEILING PANELS SHALL BE 3/4" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING MORE THAN ONE TERMINAL UNIT HEATING COIL SHALL BE 1" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING HOT WATER UNIT HEATERS AND CABINET UNIT HEATERS SHALL BE 1" UNLESS OTHERWISE NOTED.
9. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

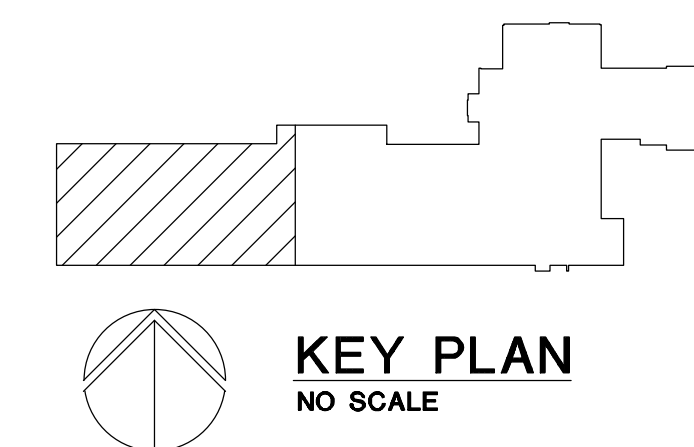
CONSTRUCTION KEY NOTES:

1. MECHANICAL CONTRACTOR TO REPLACE CONTROL VALVE. REFER TO TEMPERATURE CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.
2. EMERGENCY SHUTDOWN SWITCH.
3. ROUTE 3/4" HWHS LINE DOWN IN NEW WALL TO SERVE RADIANT WALL PANELS TO THE NORTH AND SOUTH.
4. ROUTE 3/4" HWHS LINE DOWN IN NEW WALL TO SERVE RADIANT WALL PANELS TO THE EAST AND WEST.
5. ROUTE 3/4" HWHS AND HWHR LINE DOWN IN NEW WALL TO SERVE RADIANT WALL PANELS TO THE NORTH AND SOUTH.
6. ROUTE 3/4" HWHS AND HWHR LINE DOWN IN NEW WALL TO SERVE RADIANT WALL PANELS TO THE EAST AND WEST.
7. REFER TO HOT WATER HEATING SYSTEM PIPING DIAGRAM FOR REQUIREMENTS.
8. REROUTE HWHS/R PIPING INTO CORNER, COORDINATE WITH ELECTRICAL PHASING. DO NOT ROUTE ABOVE ELECTRICAL EQUIPMENT.



Bidding and Permits: 31 July 2023
 Owner Review: 14 July 2023
 Design Development: 08 May 2023

HVAC PIPING PLAN (PART B)
 SCALE: 1/8" = 1' - 0"



KEY PLAN
 NO SCALE

HVAC PIPING PLAN (PART B)



Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

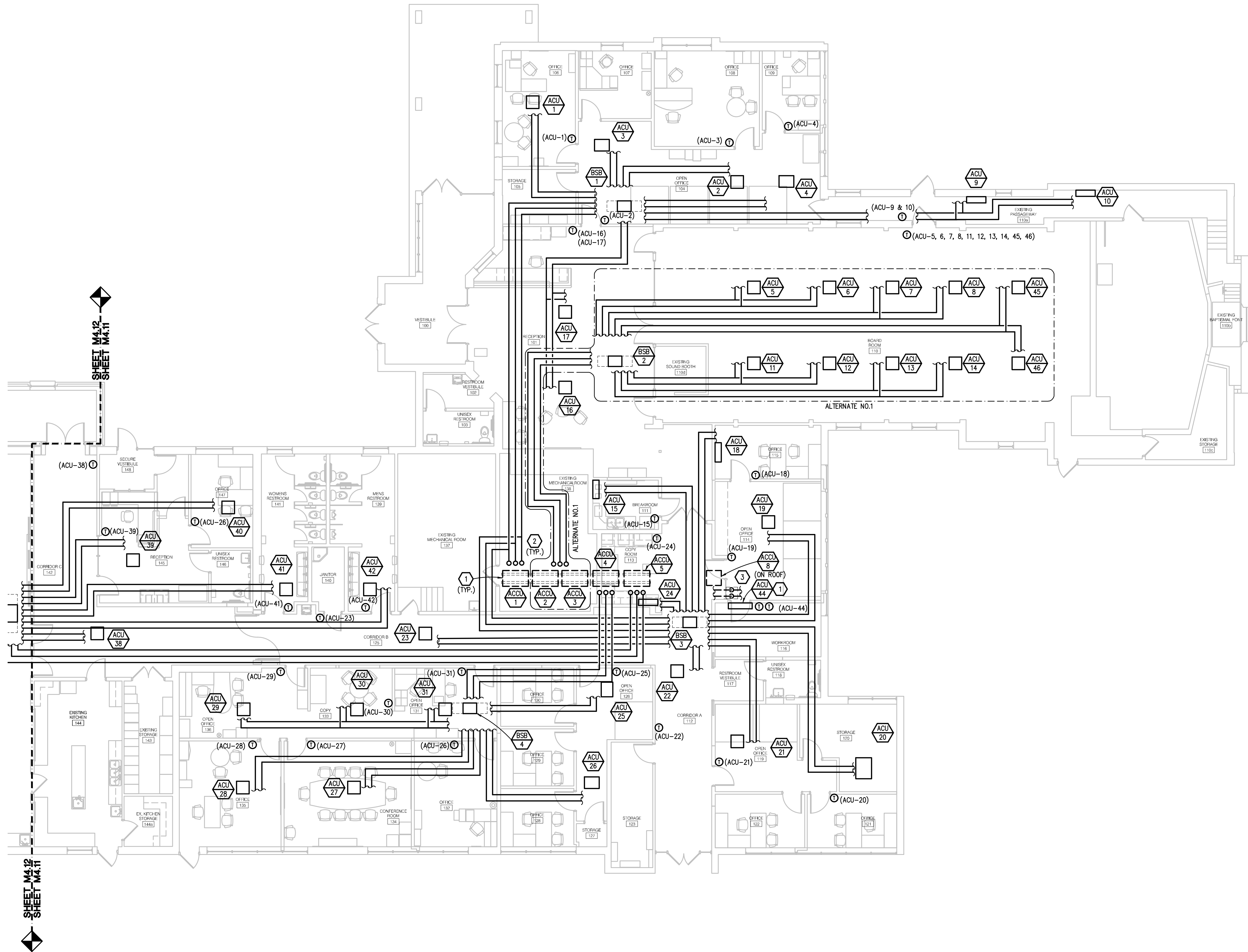
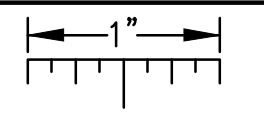
Project No. 3221

M3.12

Peter Basso Associates Inc.
 CONSULTING ENGINEERS
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 PBA Project No: 2022.0419

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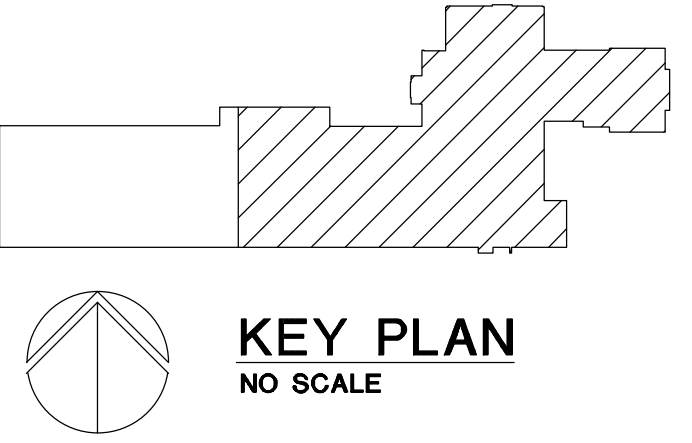
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9. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

CONSTRUCTION KEY NOTES:

1. PROVIDE NEW ROOF MOUNTED EQUIPMENT RAILS FOR NEW CONDENSING UNITS.
2. ROUTE NEW REFRIGERANT PIPING UP TO CONDENSING UNITS ON ROOF. INSTALL DUAL MODULE REFRIGERANT NETWORK MANIFOLD KIT (PROVIDED BY VRV MANUFACTURER). REFER TO MANUFACTURER INSTALLATION REQUIREMENTS.
3. PROVIDE PIPE PORTAL TO CONNECT INDOOR UNIT TO OUTDOOR CONDENSING UNIT THRU ROOF.

REFRIGERANT PIPING PLAN (PART A)
SCALE: 1/8" = 1' - 0"



Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
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PBA Project No: 2022.0419

EHRESMAN ARCHITECTS
ehresmanarchitects.com

Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

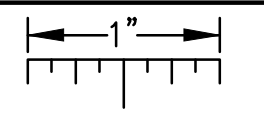
Project No. 3221

M4.11

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Design Development: 08 May 2023

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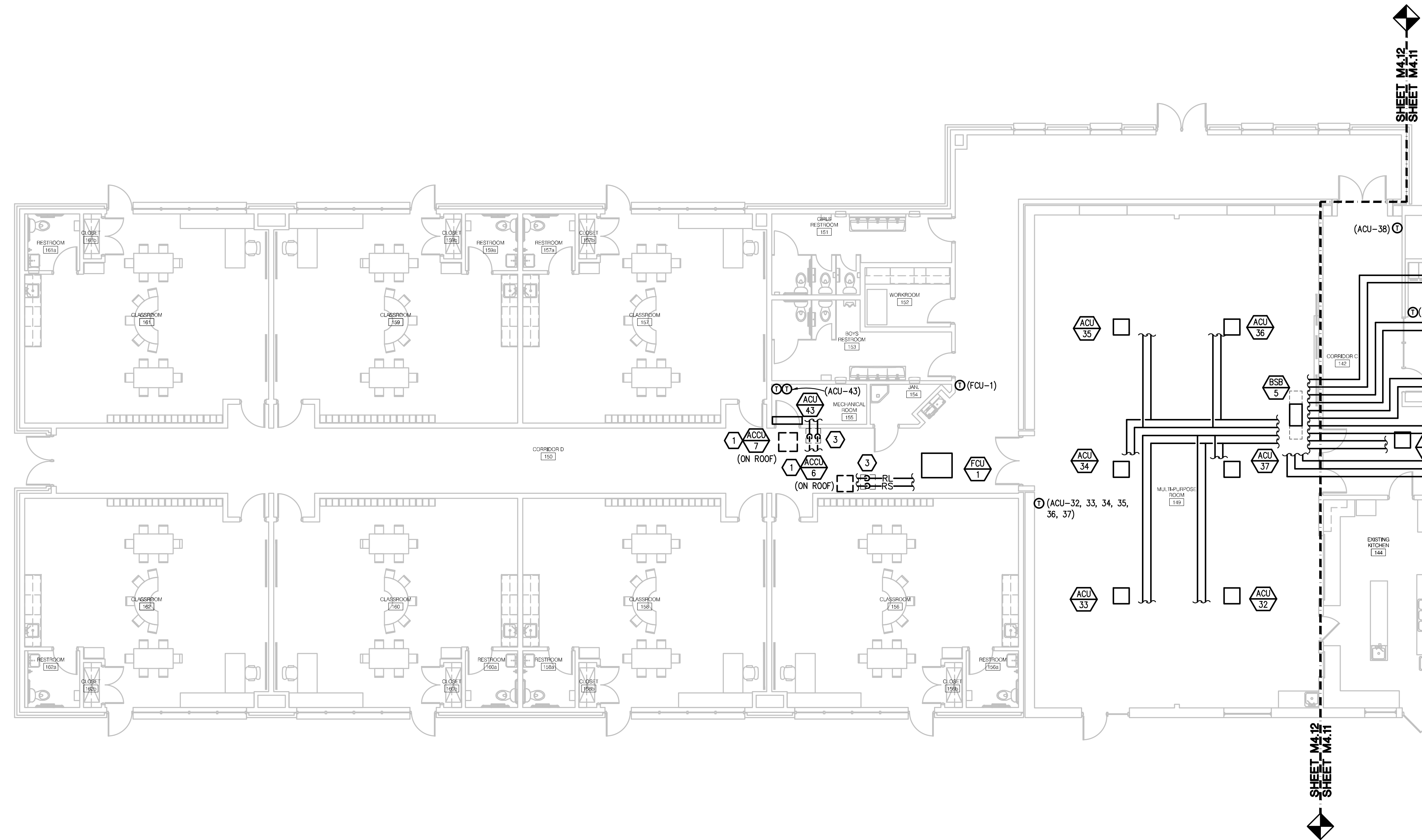


HVAC PIPING GENERAL NOTES:

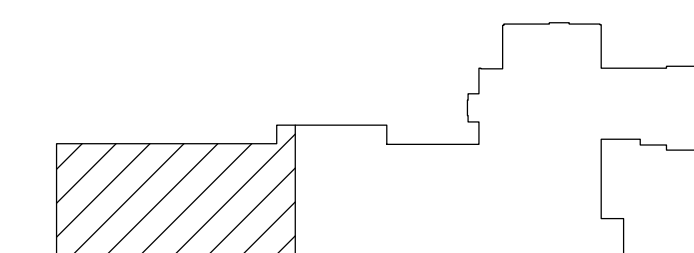
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REFRIGERANT PIPING PLAN (PART B)
SCALE: 1/8" = 1' - 0"



KEY PLAN
NO SCALE

Bidding and Permits: 31 July 2023
Owner Review: 14 July 2023
Design Development: 08 May 2023

REFRIGERANT PIPING PLAN (PART B)



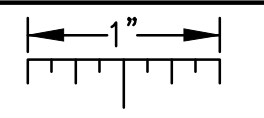
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

M4.12

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PBA Project No: 2022.0419

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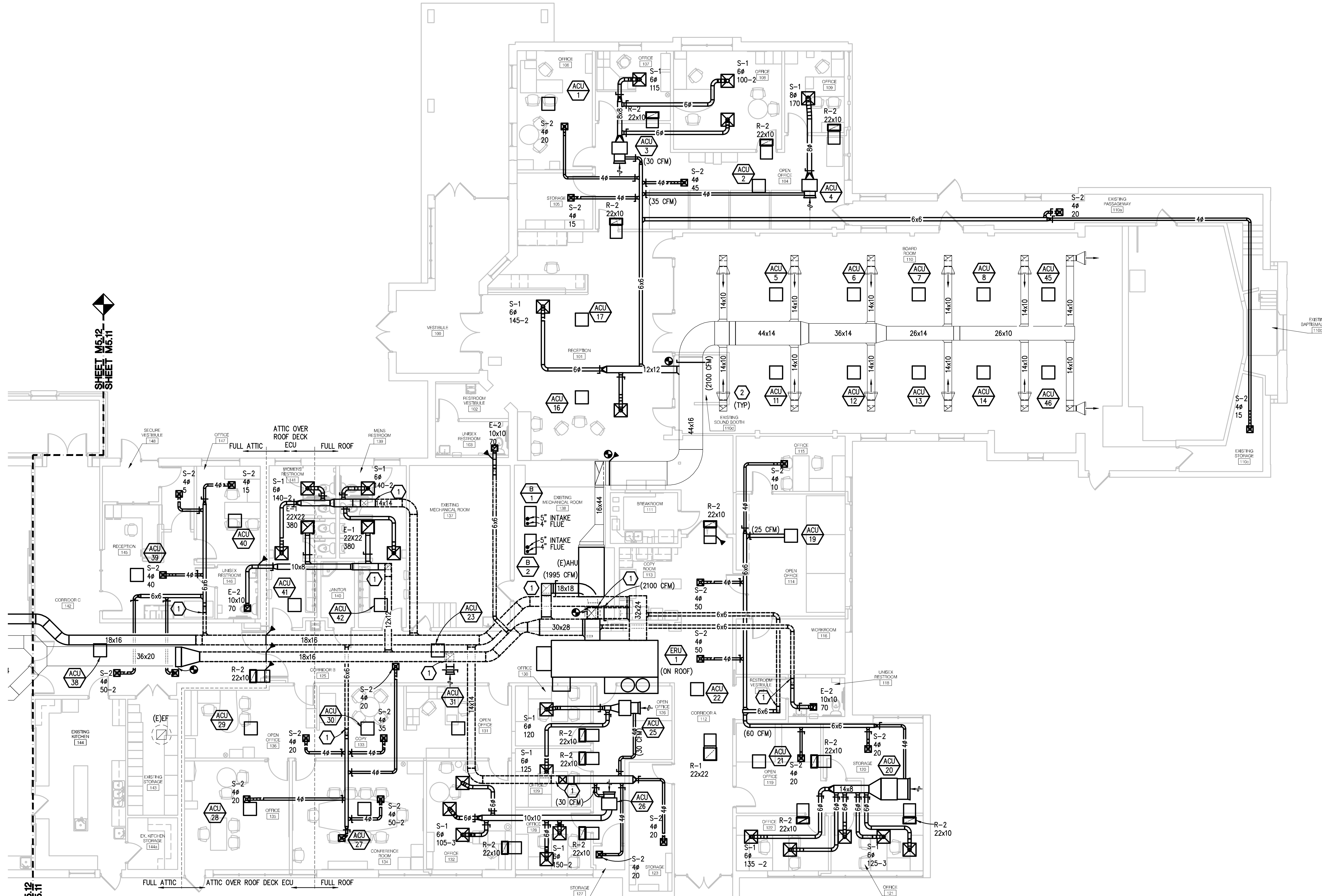


SHEET METAL GENERAL NOTES:

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CONSTRUCTION KEY NOTES:

1. PROVIDE ROOF CURB AT DUCT PENETRATION.
2. REBALANCE EXISTING DIFFUSERS AT 175 CFM.



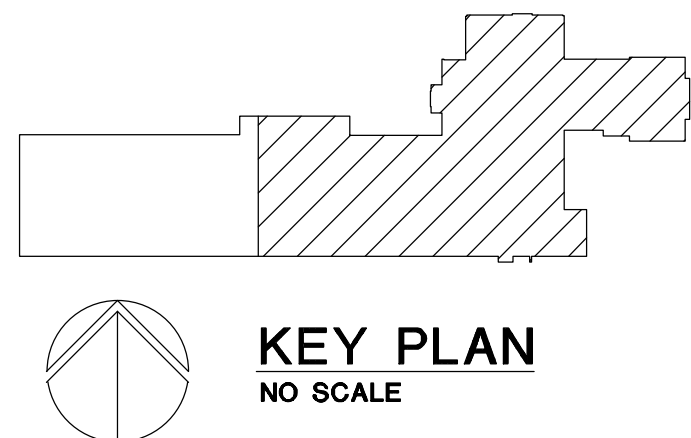
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SHEET M5.11

SHEET M5.12
SHEET M5.11

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Bidding and Permits: 31 July 2023
 Owner Review: 14 July 2023
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SHEET METAL PLAN (PART A)
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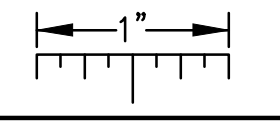
EHRESMAN ARCHITECTS
 ehresmanarchitects.com

Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

M5.11

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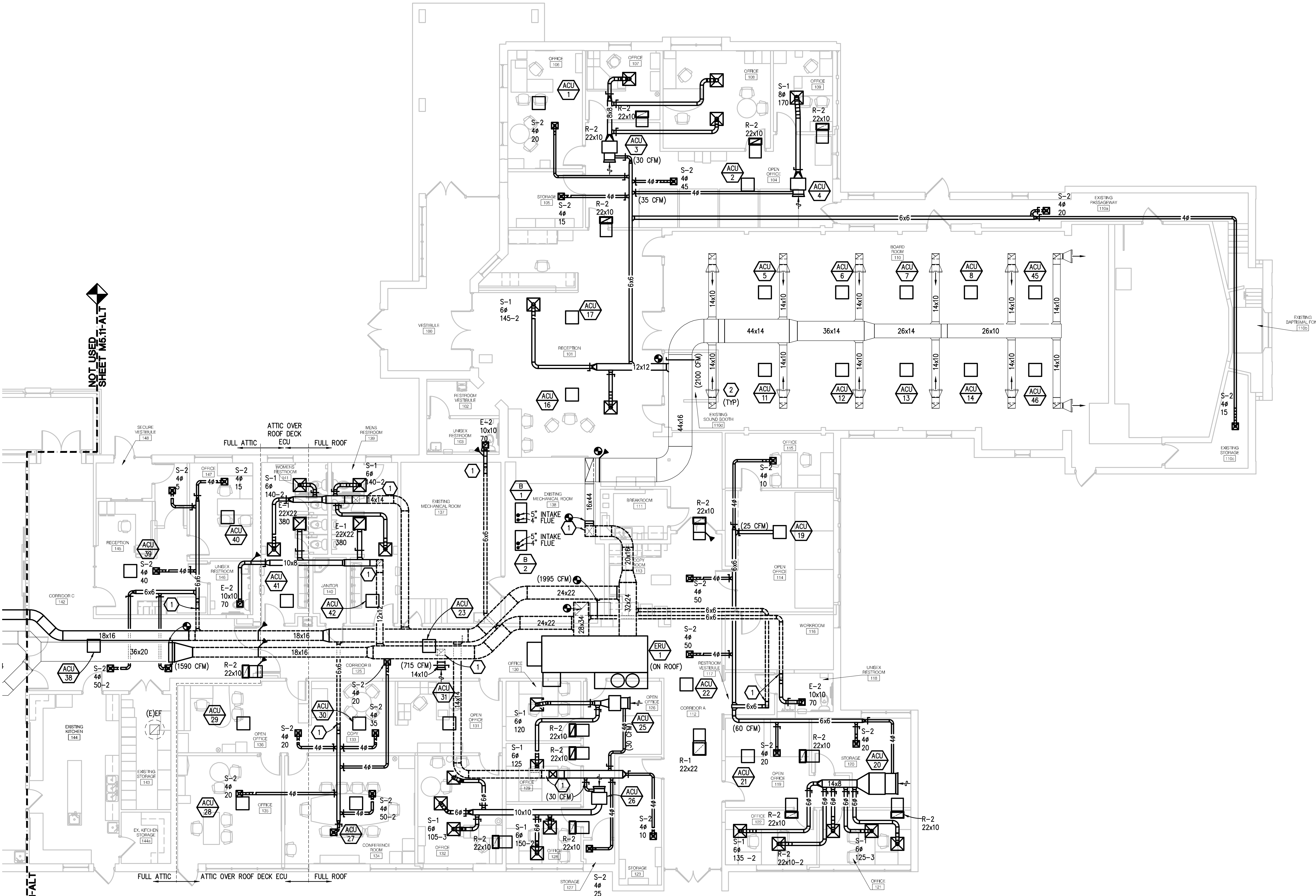


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CONSTRUCTION KEY NOTES:

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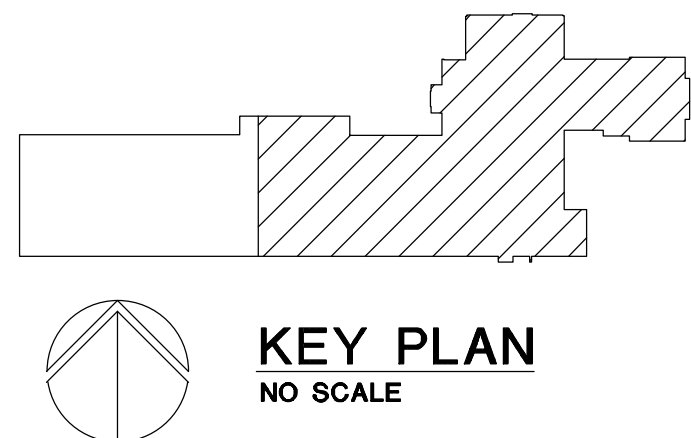


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SHEET METAL PLAN (PART A) - ALTERNATE
SCALE: 1/8" = 1'-0"



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SHEET METAL PLAN (PART A) - ALTERNATE



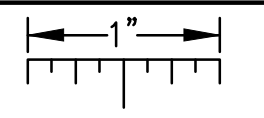
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M5.11-ALT

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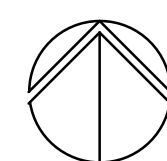
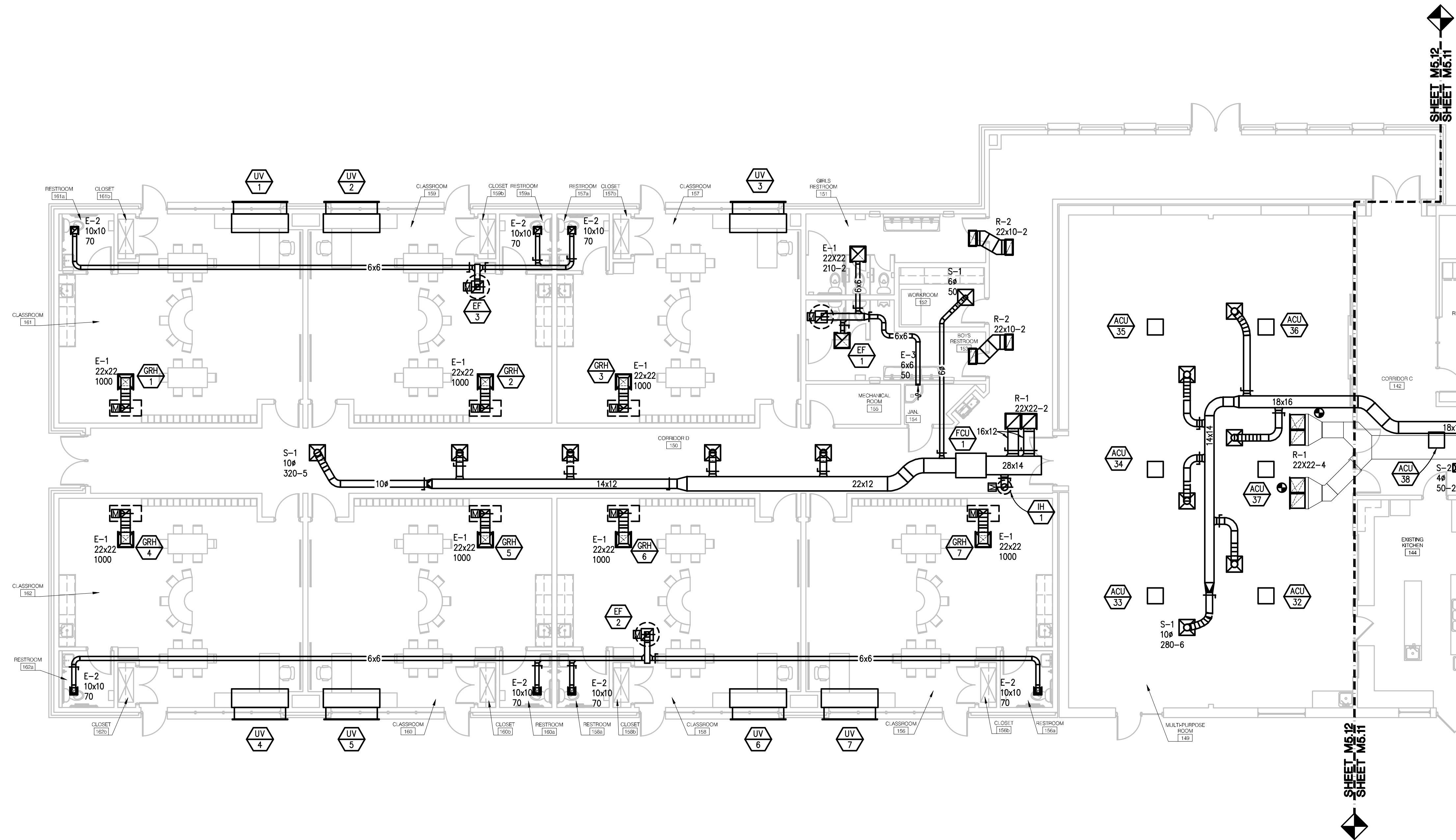


SHEET METAL GENERAL NOTES:

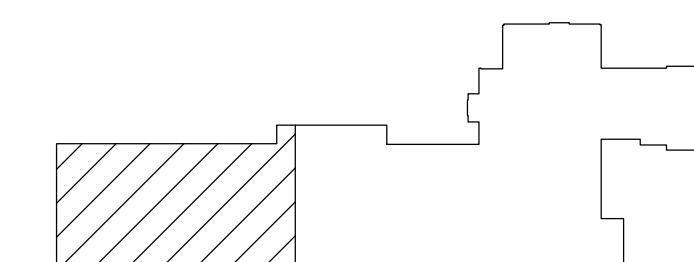
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SHEET METAL PLAN (PART B)
SCALE: 1/8" = 1' - 0"



KEY PLAN
NO SCALE

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SHEET METAL PLAN (PART B)



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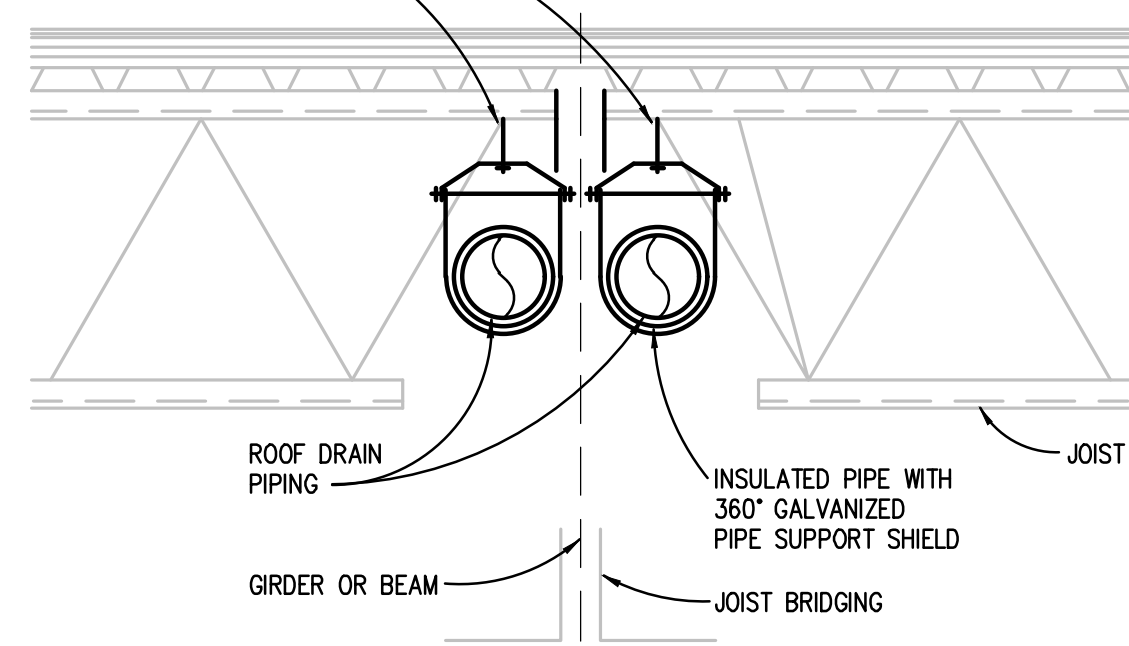
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M5.12

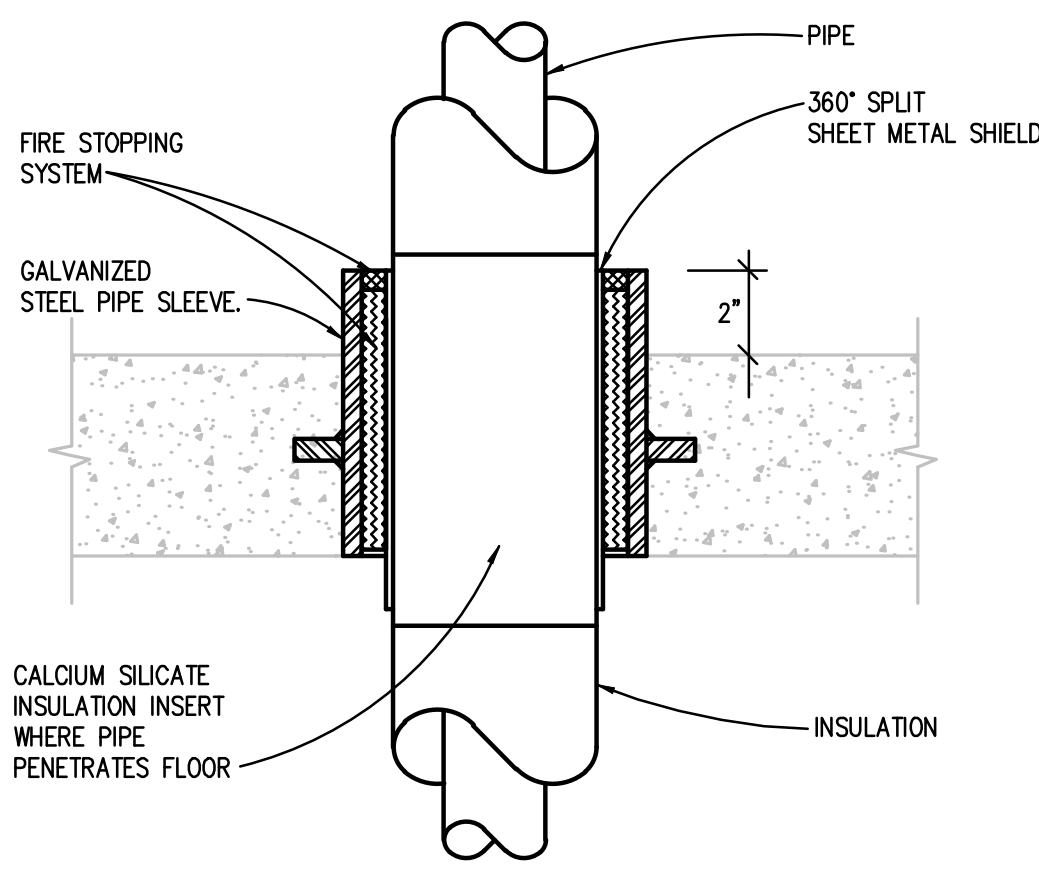
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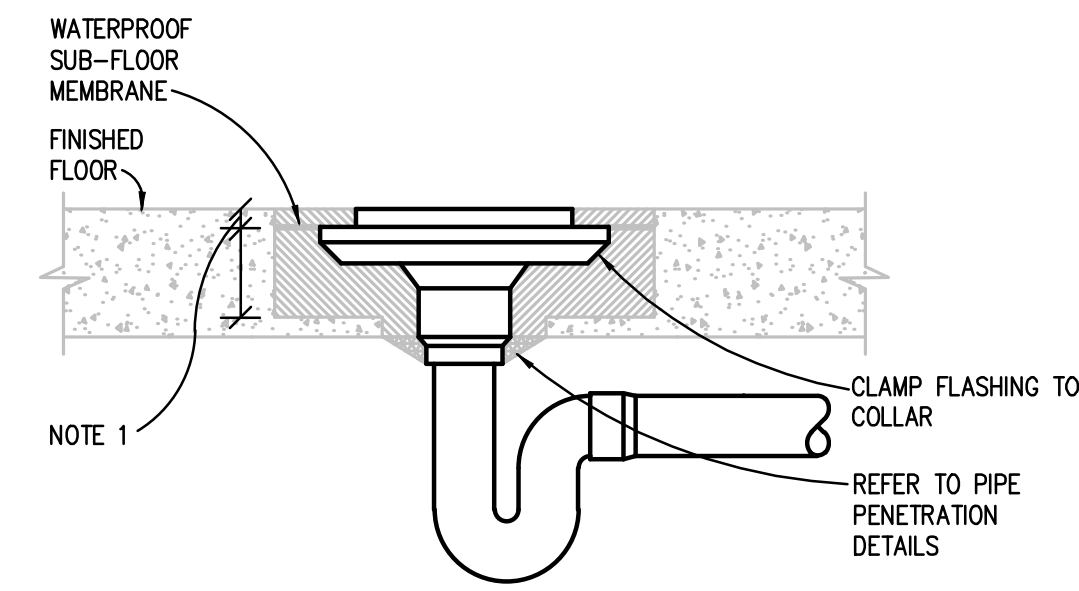
PIPE HANGER - ATTACH TO TOP OF JOIST WEB OR GIRDER. REFER TO SPECIFICATION SECTION 15060 FOR BUILDING STRUCTURAL ATTACHMENT AND REFER TO SPECIFICATION 15240 FOR SEISMIC RESTRAINTS



ROOF DRAIN PIPING DETAIL
NO SCALE

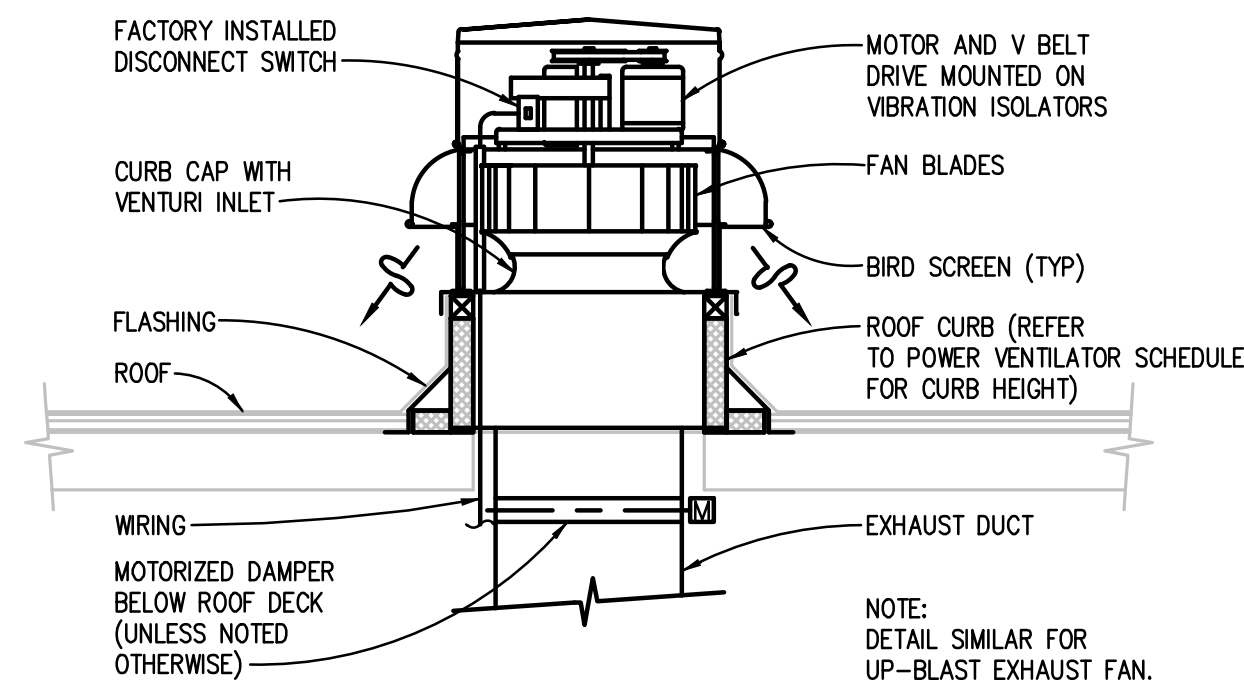


NEW FLOOR PIPE PENETRATION DETAIL
NO SCALE

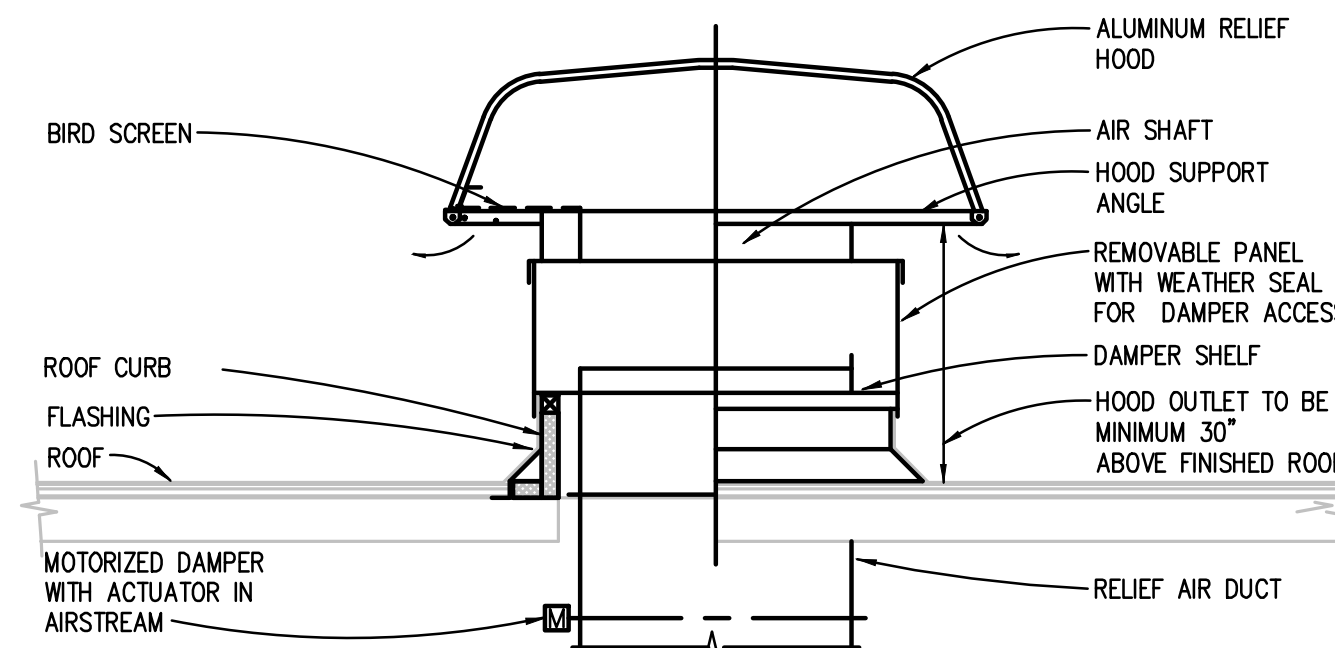


- NOTES**
1. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR THICKNESS AND FINISHES.
 2. WHERE WATERPROOF FLOOR COVERINGS OCCUR, PROVIDE WIDE FLANGE STRAINER AND PLUG SEEPAGE OPENINGS.
 3. PROVIDE EXTENSIONS WHERE REQUIRED TO ACCOMMODATE FLOOR THICKNESS.

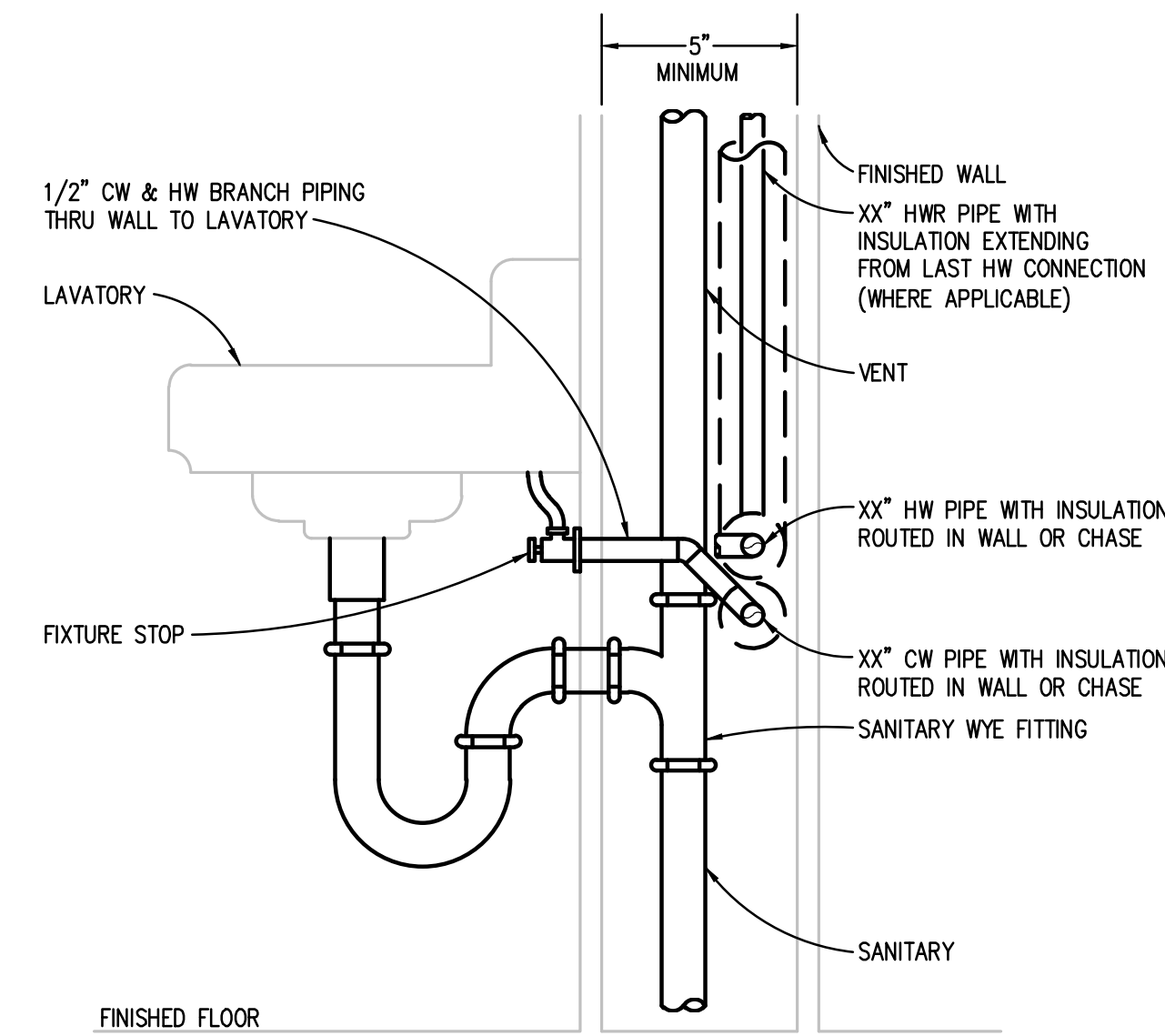
FLOOR DRAIN DETAIL (NEW FLOORS)
NO SCALE



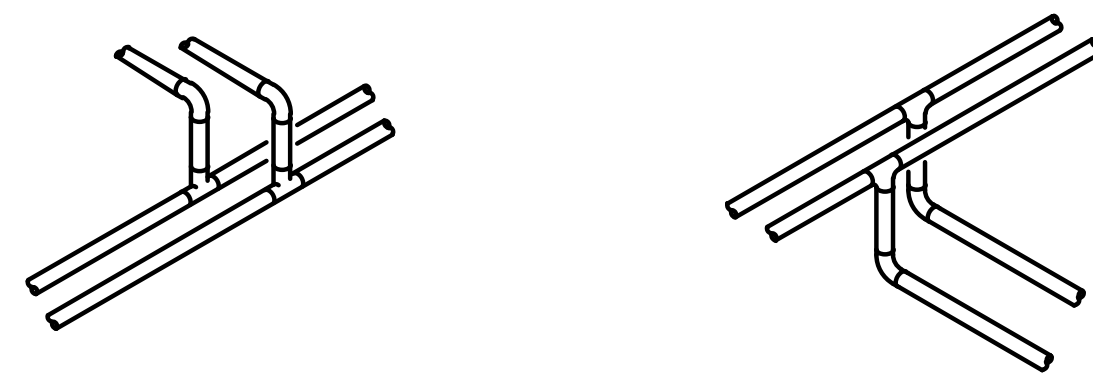
ROOF MOUNTED POWER VENTILATOR EXHAUST FAN DETAIL
NO SCALE



GRAVITY RELIEF AIR HOOD CURB DETAIL
NO SCALE



TYPICAL LAVATORY DETAIL
NO SCALE



BRANCH CONNECTION OFF TOP

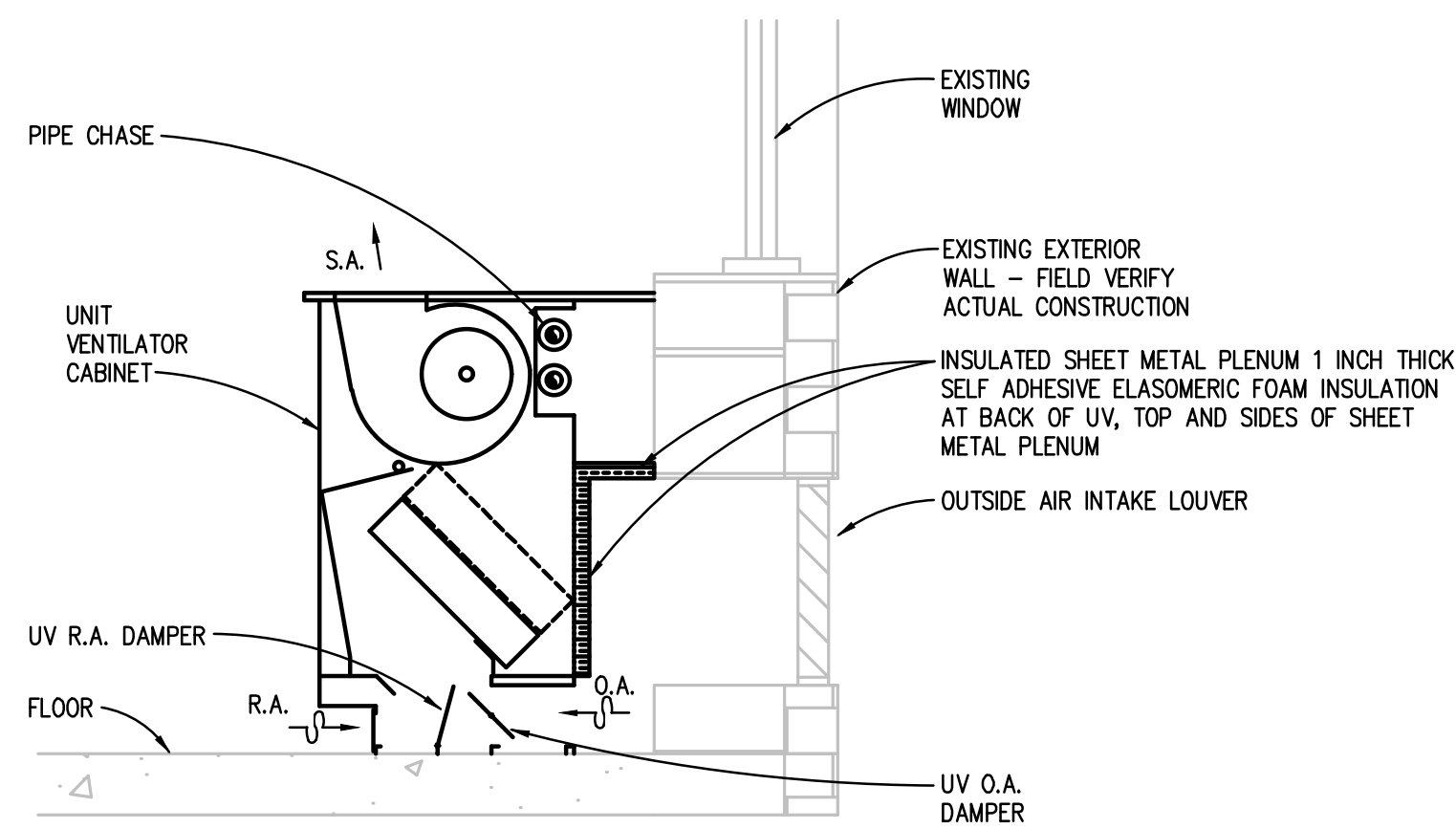
APPLIES TO THE FOLLOWING SYSTEMS:
DOMESTIC WATER
NATURAL GAS

BRANCH CONNECTION OFF BOTTOM

APPLIES TO THE FOLLOWING SYSTEMS:
HOT WATER HEATING

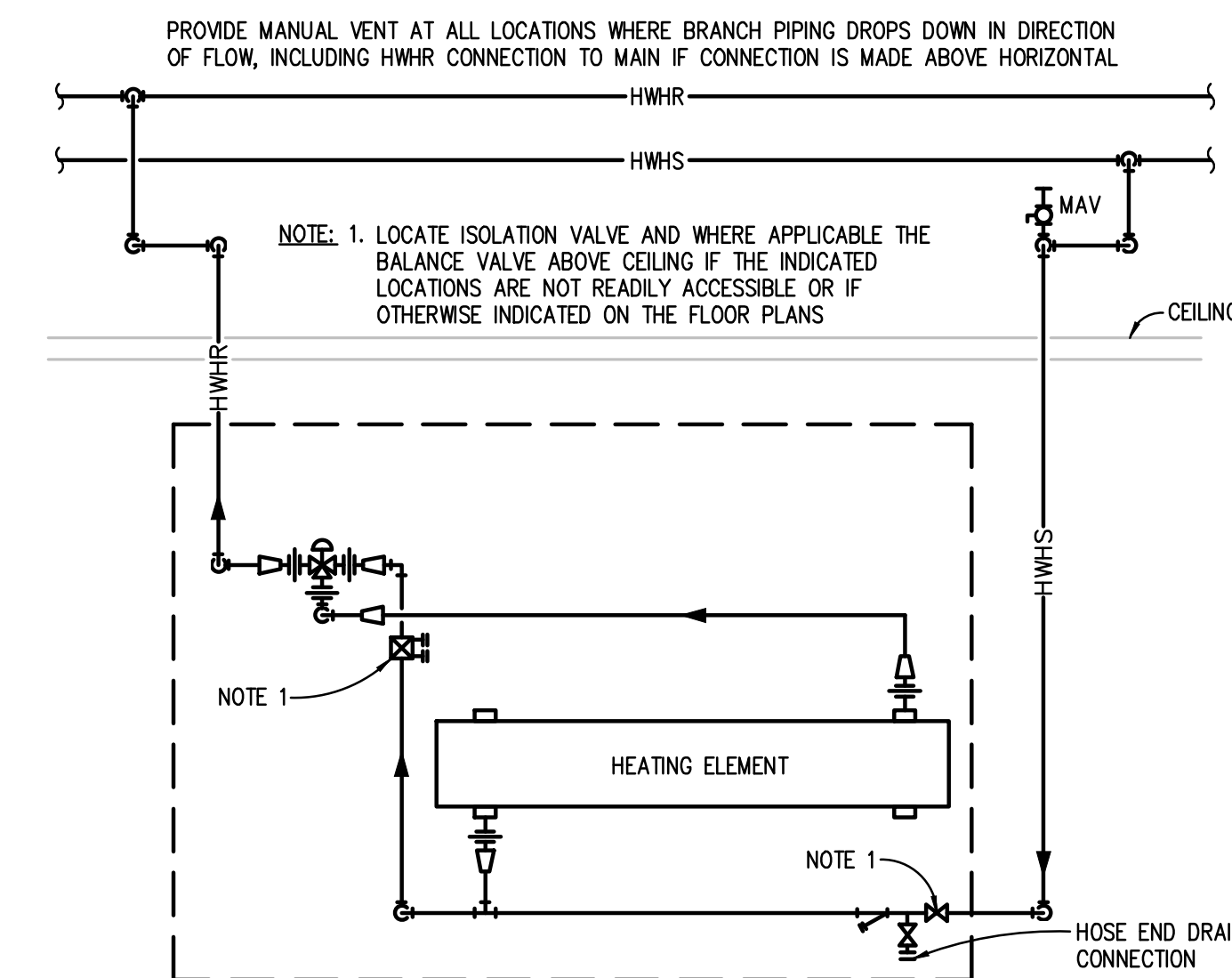
NOTE: BOTTOM AS INDICATED OR SIDE CONNECTION IS ACCEPTABLE. CONNECTION ABOVE CENTERLINE OF MAINS IS NOT ACCEPTABLE.

TYPICAL BRANCH TAKE-OFF CONNECTION PIPING DETAIL
NO SCALE



NOTES:
OUTSIDE AIR LOUVER AND WALL/SILL CONDITION SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE INSTALLATION WITH ACTUAL FIELD CONDITIONS.

UNIT VENTILATOR INSTALLATION DETAIL
NO SCALE



DOWNFEED CUH WITH THREE WAY CONTROL VALVE PIPING DIAGRAM
NO SCALE

Bidding and Permits: 31 July 2023
Owner Review: 14 July 2023
Design Development: 08 May 2023

PBA
Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

MECHANICAL DETAILS



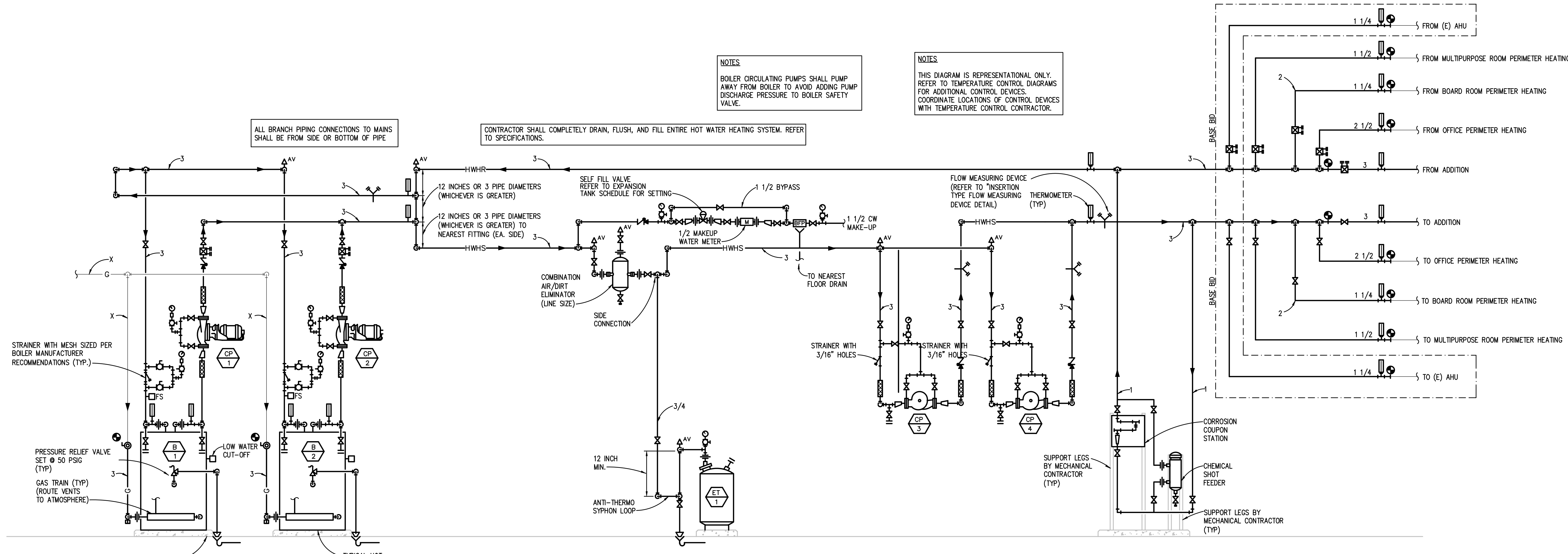
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

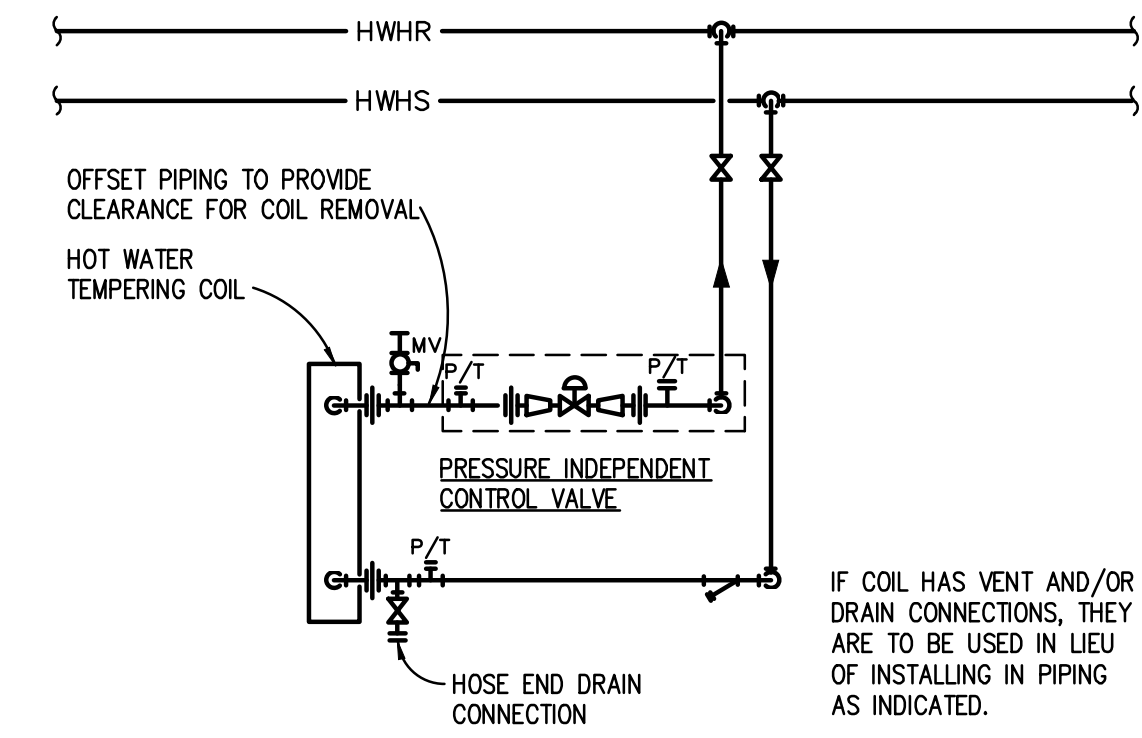
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NOTES
 BOILER CIRCULATING PUMPS SHALL PUMP AWAY FROM BOILER TO AVOID ADDING PUMP DISCHARGE PRESSURE TO BOILER SAFETY VALVE.

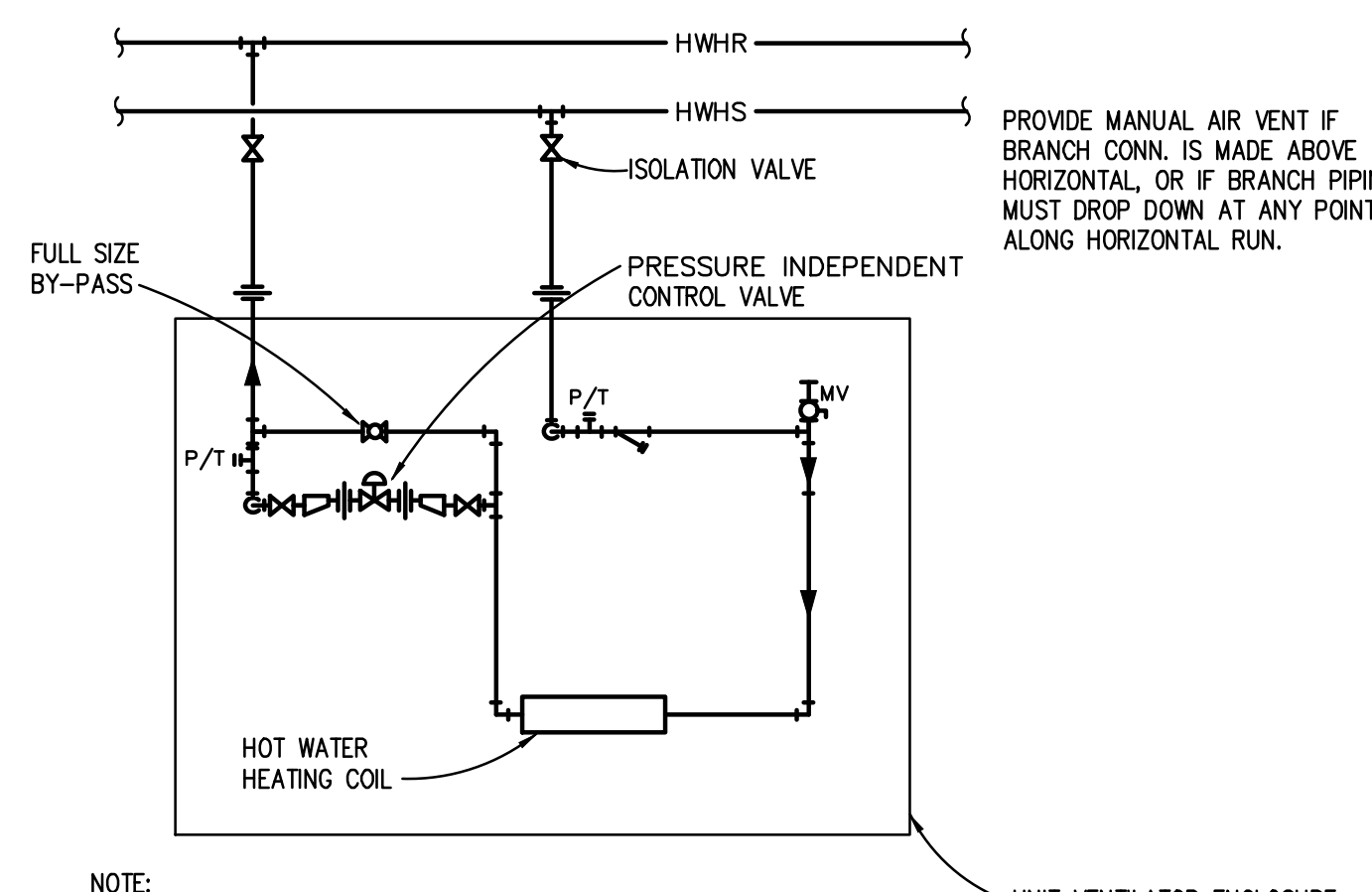
NOTES
 THIS DIAGRAM IS REPRESENTATIONAL ONLY. REFER TO TEMPERATURE CONTROL DIAGRAMS FOR ADDITIONAL CONTROL DEVICES. COORDINATE LOCATIONS OF CONTROL DEVICES WITH TEMPERATURE CONTROL CONTRACTOR.



HOT WATER HEATING SYSTEM PIPING DIAGRAM
 NO SCALE

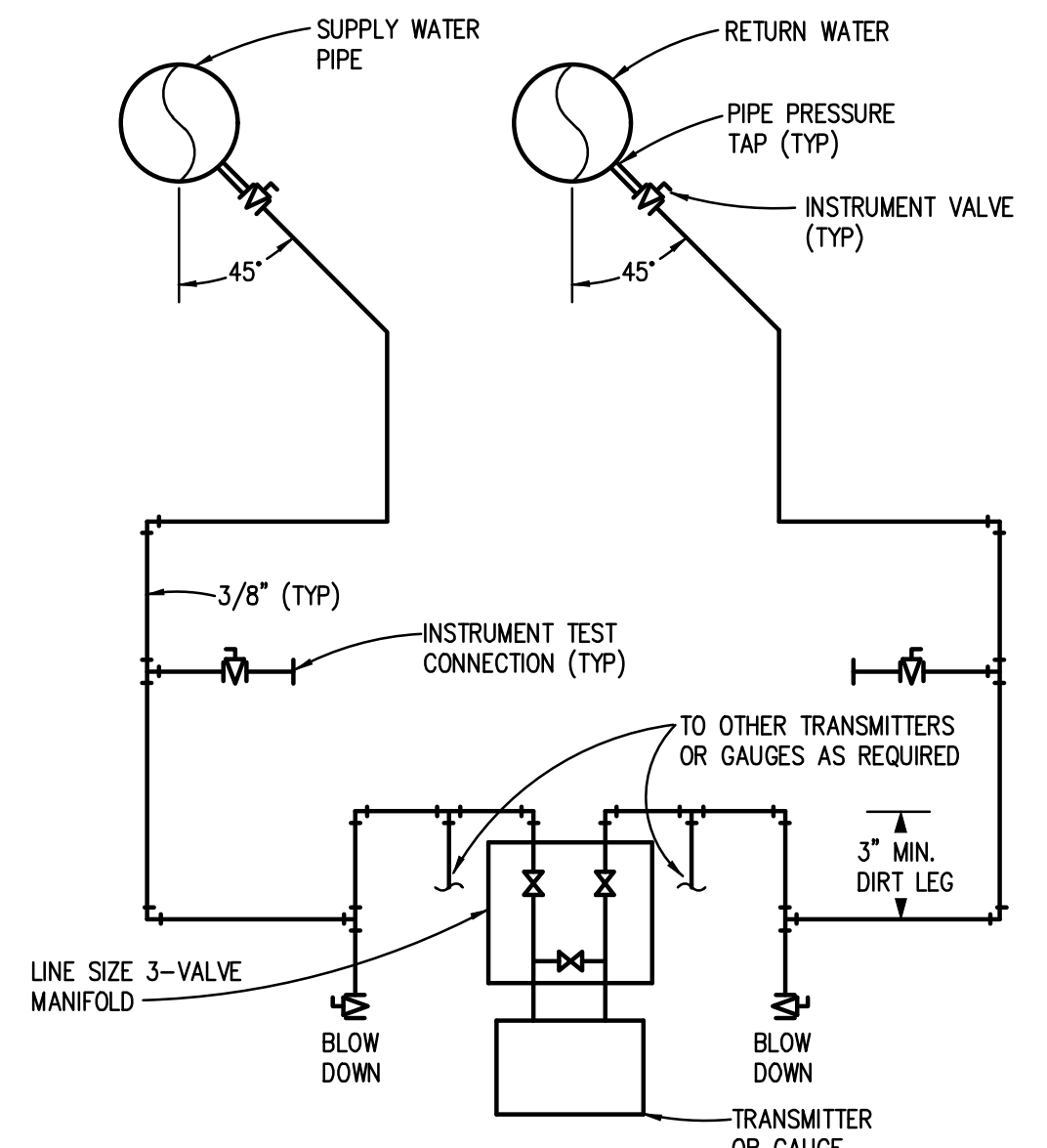


FAN COIL UNIT PIPING DIAGRAM
 NO SCALE



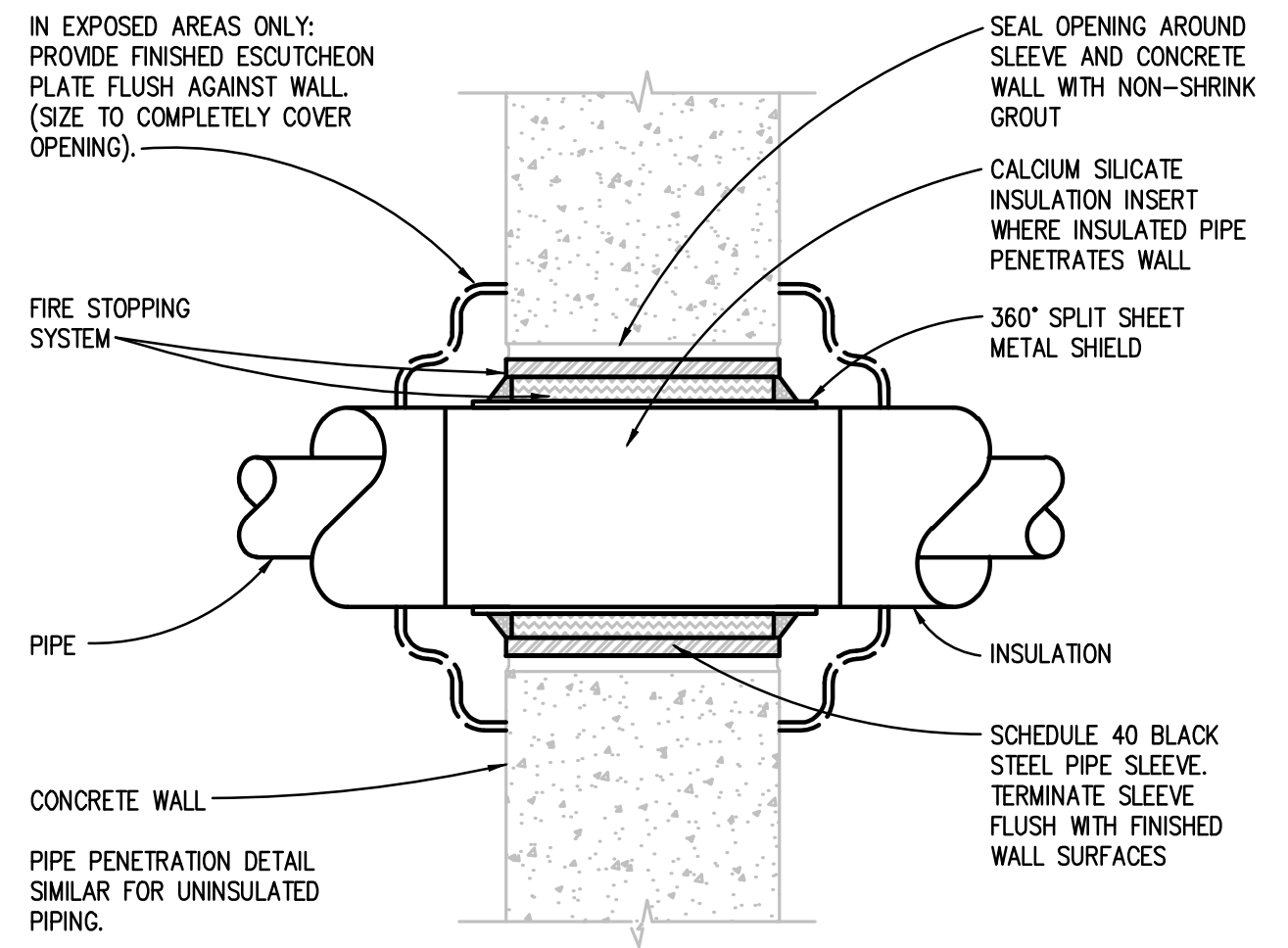
- NOTE:**
1. ALL ISOLATION AND DRAIN VALVES SHALL BE BALL VALVES.
 2. ALL COMBINATION BALANCE AND CONTROL VALVES SHALL BE VENTURI TYPE (MANUFACTURER = PRESO, FLOW DESIGN OR NEXUS).

UV HOT WATER HEATING COIL WITH TWO-WAY CONTROL VALVE PIPING DIAGRAM
 NO SCALE



- NOTES:**
1. ON HORIZONTAL PIPES, INSTALL PIPE PRESSURE TAP AT 45° ANGLE FROM BOTTOM OF PIPE.
 2. PROVIDE LINE SIZE 3-VALVE MANIFOLD AS INDICATED FOR EACH TRANSMITTER AND GAUGE.

DIFFERENTIAL PRESSURE SENSING DEVICE DETAIL
 NO SCALE



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

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

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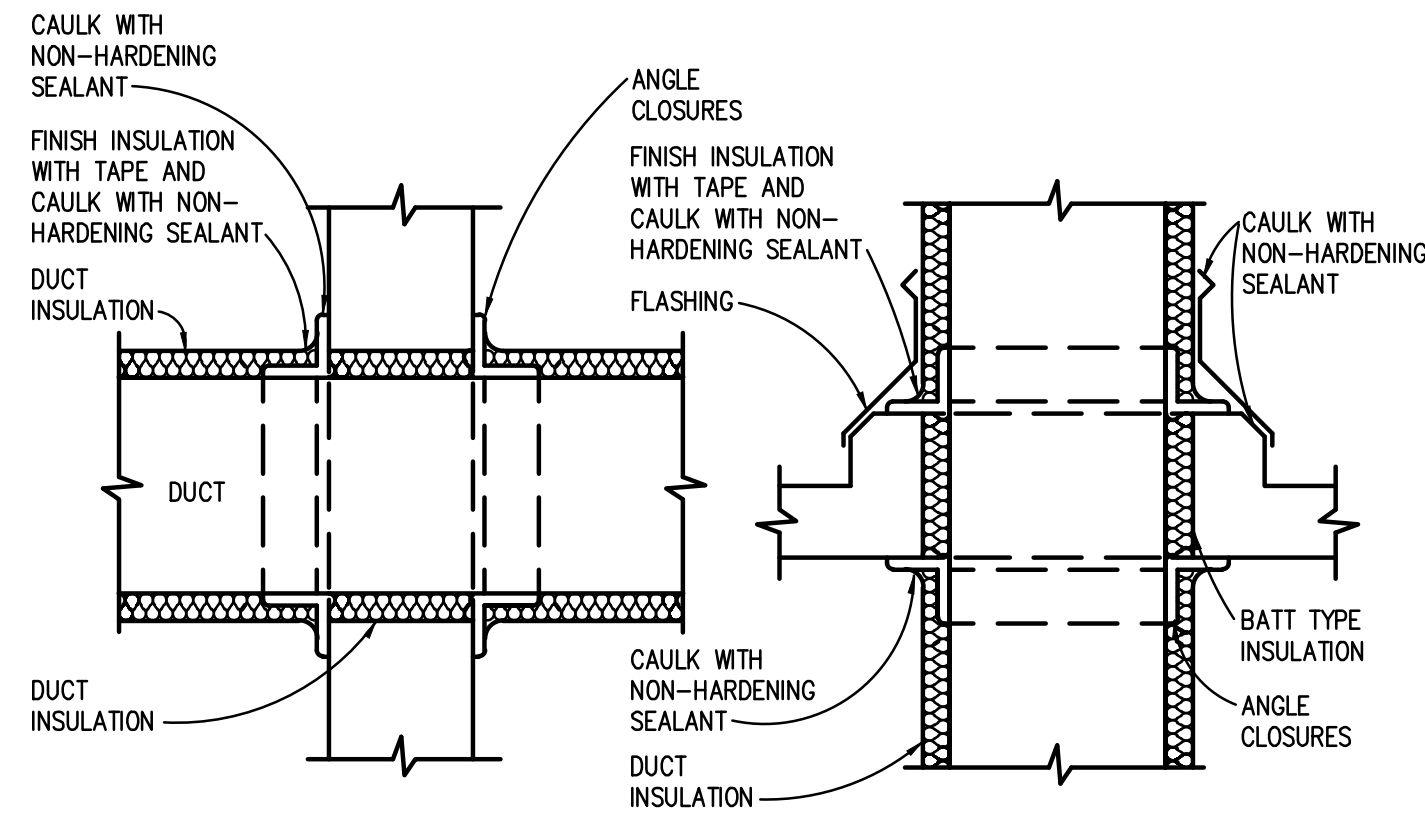
MECHANICAL DETAILS
EHRESMAN ARCHITECTS
 ehresmanarchitects.com

Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

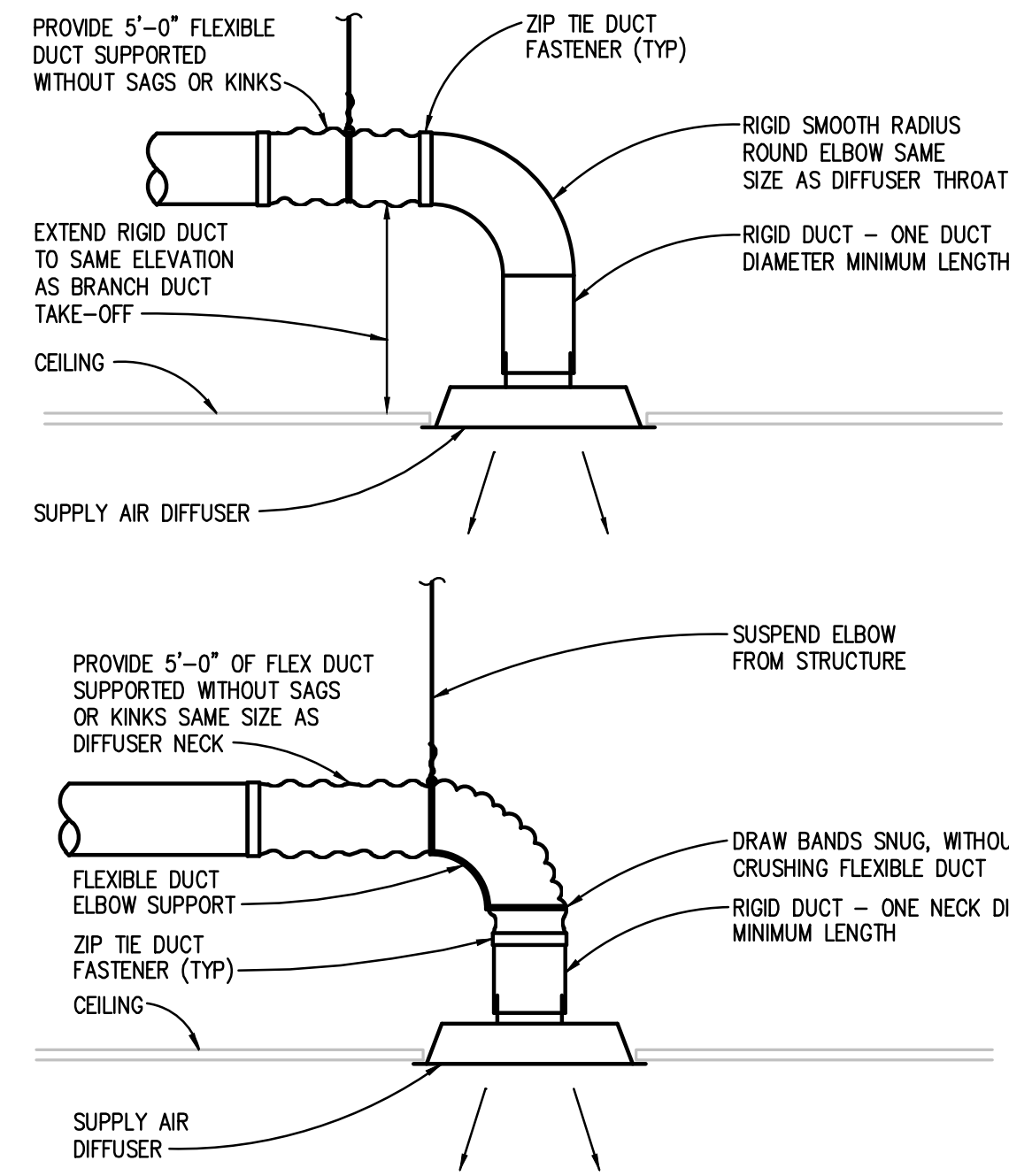
Project No. 3221

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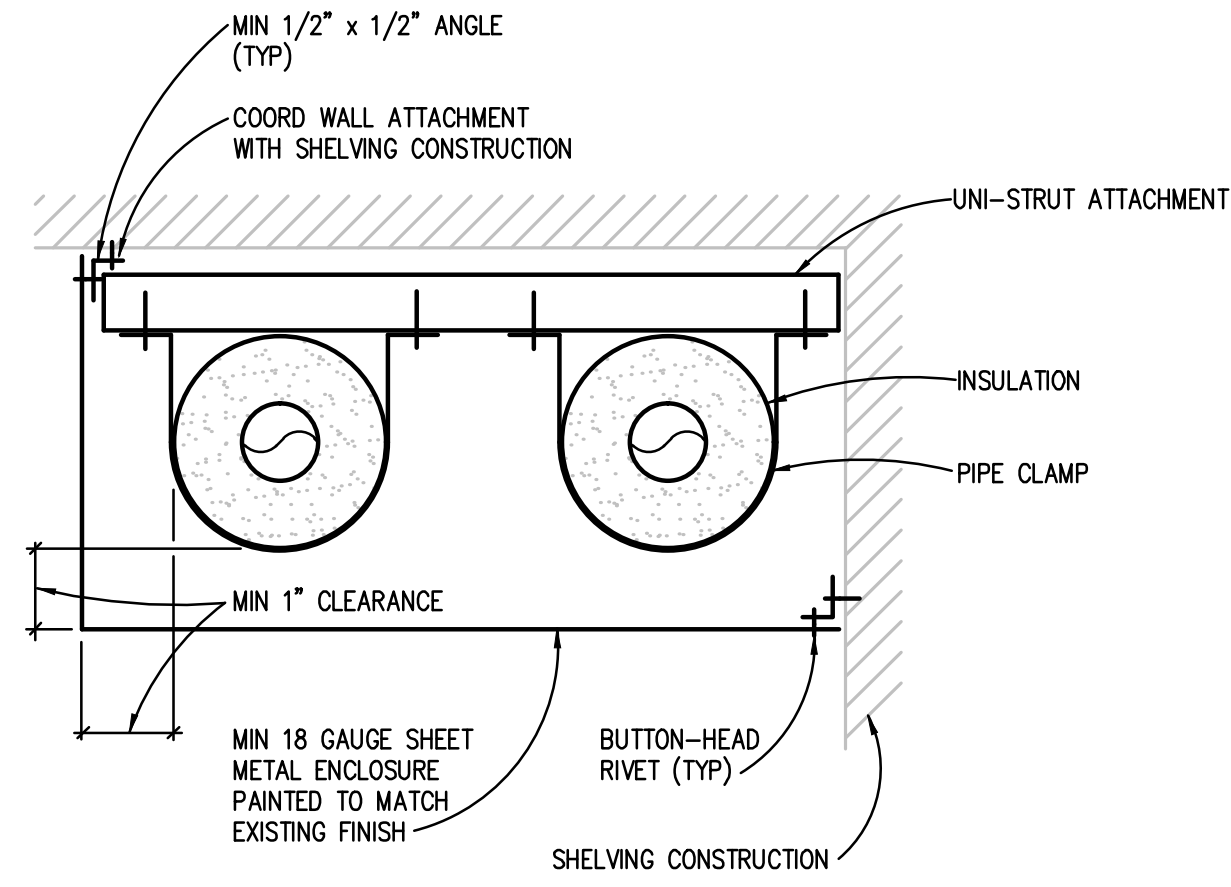
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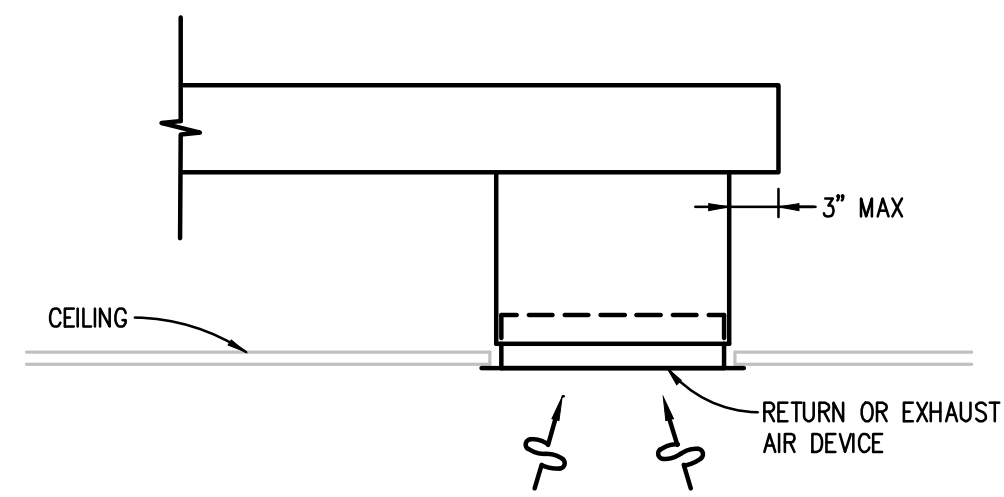
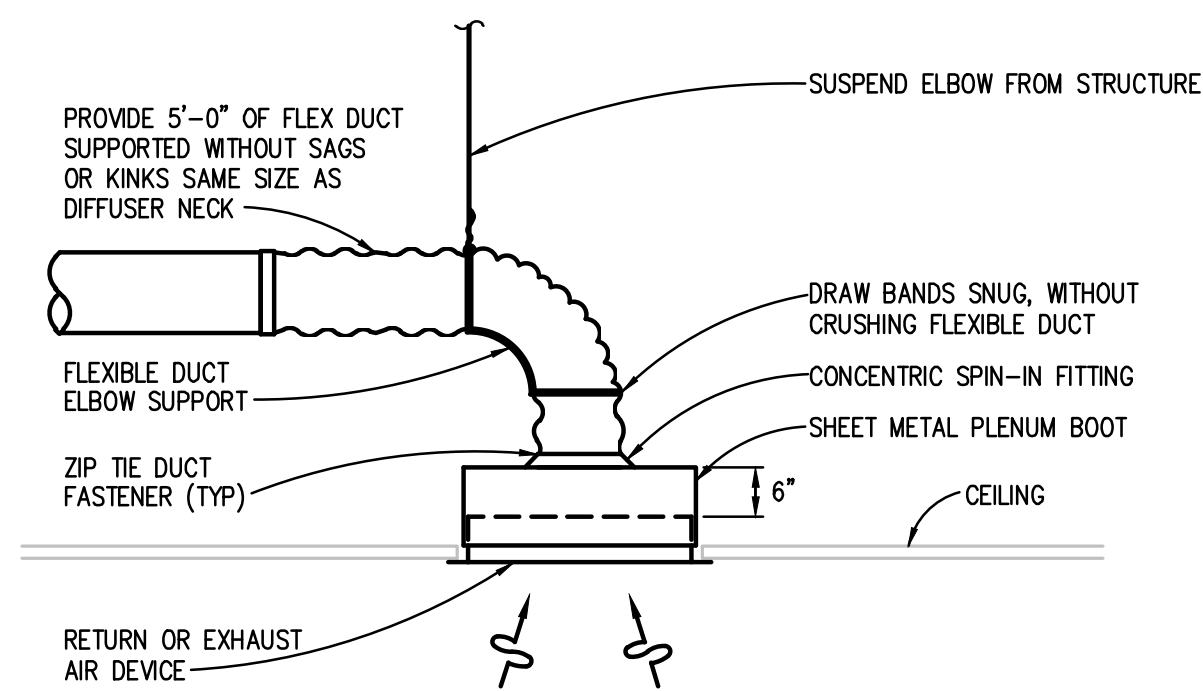
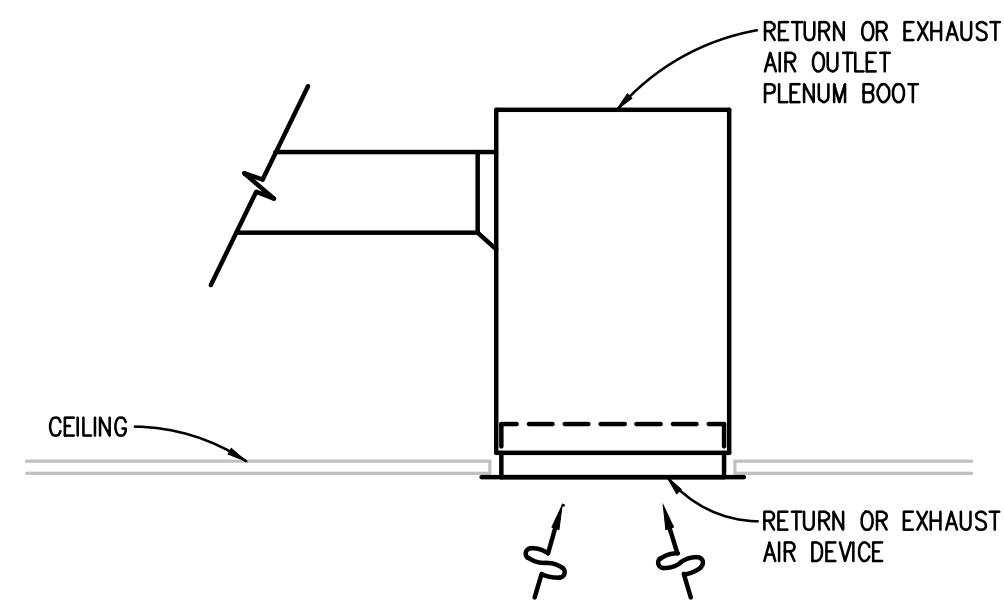
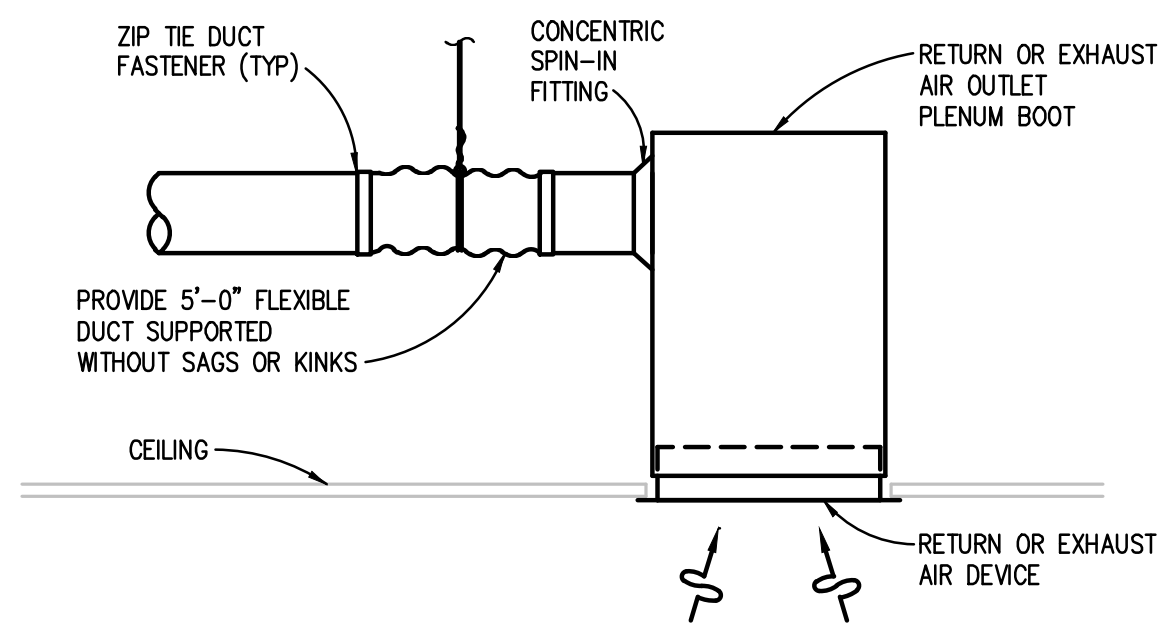
VERTICAL OR HORIZONTAL (NON FIRE RATED ASSEMBLY) DUCT PENETRATION DETAIL
NO SCALE



ROUND NECK SUPPLY AIR DIFFUSER DETAIL
NO SCALE

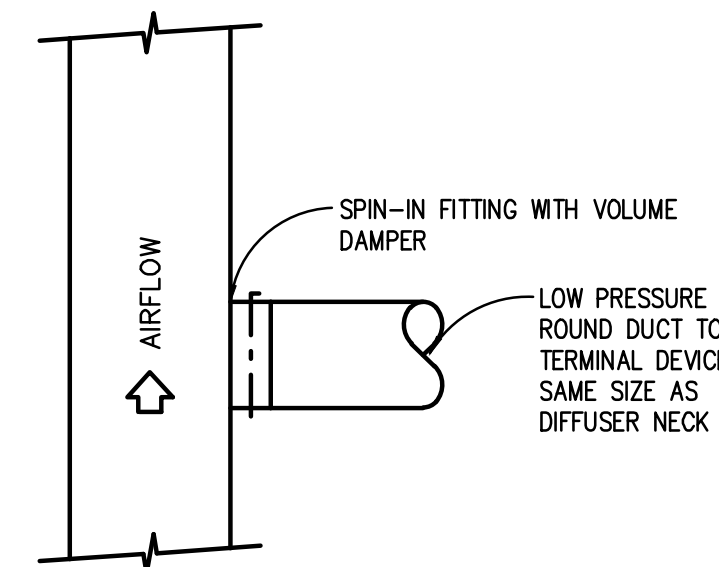


PIPE ENCLOSURE DETAIL
NO SCALE

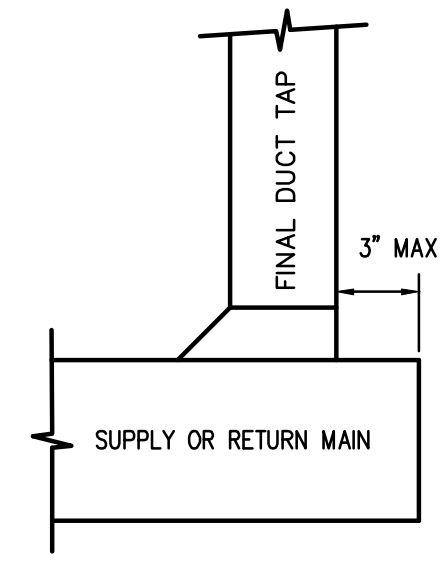


RETURN OR EXHAUST AIR DEVICE INSTALLATION DETAIL
NO SCALE

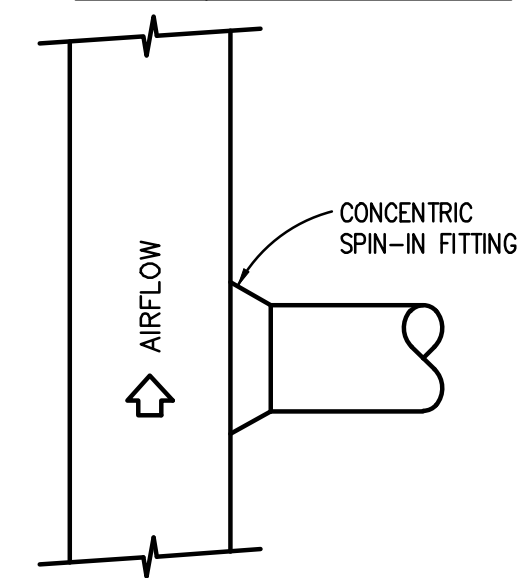
NOTE: PAINT INTERIOR SURFACE OF PLENUM BOX FLAT BLACK.



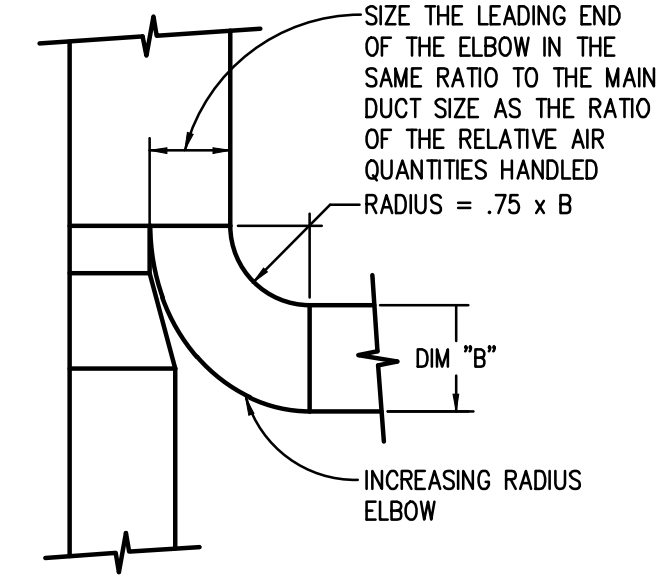
LOW PRESSURE INLET/OUTLET TO/FROM DIFFUSER, REGISTER OR GRILLE



LOW PRESSURE END OF RUN

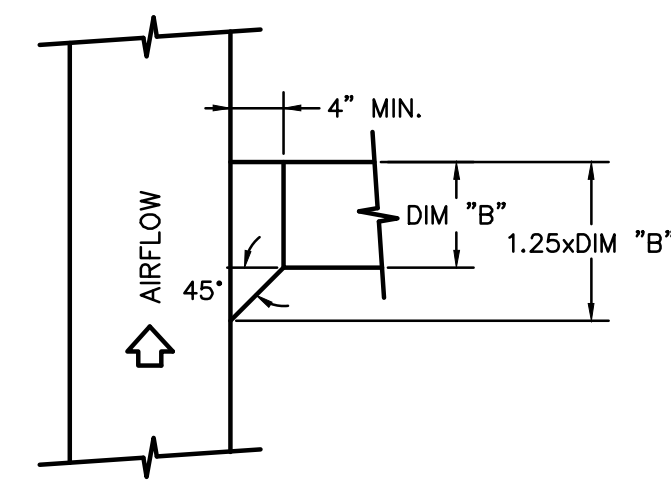


RECTANGULAR TO ROUND DUCT

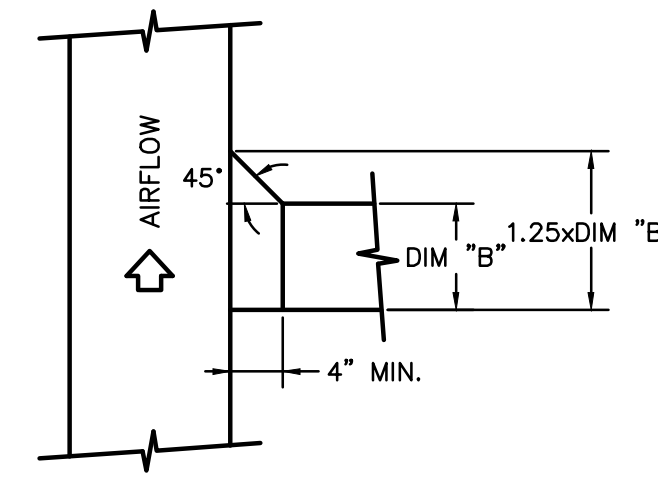


SUPPLY, RETURN OR EXHAUST DUCT

FOR USE WHEN A BRANCH TAKE-OFF IS TO HANDLE MORE THAN 25% OF THE AIR HANDLED BY THE MAIN DUCT



SUPPLY DUCT



RETURN OR EXHAUST DUCT

RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS
NO SCALE

Bidding and Permits: 31 July 2023
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Troy, Michigan 48098-3276
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Fax: 248-679-0007
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M6.03

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PLUMBING PIPING & VALVE APPLICATION SCHEDULE																																									
PIPE SIZE (INCHES)	MATERIAL											PRESSURE CONNECTIONS										GRAVITY DWV CONNECTIONS				ISOLATION VALVES					KEYED NOTES										
	SOFT COPPER TYPE K	HARD COPPER TYPE L	HARD COPPER TYPE M	CARBON STEEL (SCHD. 40)	CARBON STEEL (STD.)	GALV. STEEL (SCHD. 40)	STAINLESS STEEL (SCHD. 10)	PEX	PE PIPE	PE SHEATHED CARBON STEEL PIPE	CSST	NO-HUB CSIP	PVC TYPE DWV	PP DRAINAGE PIPE	COPPER TYPE DWV	DUCTILE IRON PIPE	SOLDERED	BRAZED	MELDED	THREADED	FLANGED	GROOVED	INSERT & CRIMP	FUSION	PRESSURE-SEAL	MECHANICALLY-FORMED TEE	MECHANICAL JOINT	PUSH-ON-JOINT	SOLVENT WELDED	SOLDERED		FUSION	CSP HUBLESS	HEAVY-DUTY HUBLESS	BALL	AGA BALL	GENERAL SERVICE BUTTERFLY	LUBRICATED PLUG	GATE		
ABOVEGROUND DOMESTIC WATER (POTABLE AND NON-POTABLE) ON DISTRIBUTION SIDE OF METER - MIN. WORKING PRESS. & TEMP., 125 PSIG AT 200 DEG F																																									
UP TO 4	X															X	X																								A
ABOVEGROUND SANITARY WASTE & VENT - MIN. WORKING PRESS. 10-FOOT HEAD OF WATER																																									
1-1/2 TO 15						X																								X											
UNDERGROUND SANITARY WASTE & VENT - MIN. WORKING PRESS. 10-FOOT HEAD OF WATER																																									
3 TO 12						X																							X												
ABOVEGROUND COLD CONDENSATE DRAIN - MIN. WORKING PRESSURE: 10 FT. HEAD OF WATER																																									
ALL SIZES		X											X	X	X																										
ABOVEGROUND PUMPED COLD CONDENSATE DRAIN - MIN. WORKING PRESSURE: 125 PSIG																																									
UP TO 2		X														X	X																	X							
2-1/2 TO 4		X															X																				X				
ABOVEGROUND STORM DRAINAGE - MIN. WORKING PRESS. 10-FOOT HEAD OF WATER																																									
2											X																			X											
3 TO 15											X																			X											
UNDERGROUND STORM DRAINAGE - MIN. WORKING PRESS. 10-FOOT HEAD OF WATER																																									
3 TO 12											X																			X											
15											X																			X											
ABOVEGROUND FUEL GAS - MIN. WORKING PRESS. 100 PSIG																																									
UP TO 2		X																		X	X															X				E	
2-1/2 TO 3		X																		X	X																X			E	
4 TO 10			X																	X	X																X			E	
12 AND LARGER				X																X	X															X				E	
UNDERGROUND FUEL GAS - MIN. WORKING PRESS. 100 PSIG																																									
1/2 TO 12								X																													X			F	

- GENERAL NOTES**
- 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
 - DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS.
 - a. NPS 2 AND SMALLER: USE DIELECTRIC NIPPLE/WATERWAY.
 - b. NPS 2-1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.
 - USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS.
 - PLUMBING EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED PIPING SYSTEM.
 - GROOVED END VALVES MAY BE USED WITH GROOVED PIPING.

- KEYED NOTES**
- A. GROOVED AND FLANGED FITTINGS, JOINTS, AND COUPLINGS, IF INDICATED AS AN ACCEPTABLE SELECTION, MAY BE USED IN ACCESSIBLE LOCATIONS ONLY FOR THIS PIPING SYSTEM. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS.
- B. JOINTS ARE NOT PERMITTED ON UNDERGROUND WATER PIPING.
- C. USE CAST IRON DRAINAGE PATTERN (DURHAM) FITTINGS.
- D. INSTALL IN CONTAINMENT JACKET, REFER TO SPECIFICATIONS.
- E. VALVES, UNIONS, AND FLANGED JOINTS MAY BE USED IN ACCESSIBLE LOCATIONS ONLY, EXCLUDING CEILINGS USED AS AIR PLENUMS. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS. USE ONLY STEEL WELDED FITTINGS AND WELDED JOINTS IN CEILING USED AS AIR PLENUMS.
- F. NO JOINTS ALLOWED UNDERGROUND.

MECHANICAL EQUIPMENT INSULATION APPLICATION SCHEDULE										
HEATING WATER AIR SEPARATORS	INSULATION MATERIAL & THICKNESS (INCHES)								FIELD APPLIED JACKET MATERIAL	KEYED NOTES
	FLEXIBLE ELASTOMERIC	FIBERGLASS, LARGE DIAMETER PIPE & TANK	FIBERGLASS BOARD	POLYSOCYANURATE	PHENOLIC	CELLULAR GLASS	CALCIUM SILICATE	ALUMINUM		
	2	2			3	3	X	X		

- GENERAL NOTES**
- 'X' OR THICKNESS IN INCHES INDICATE ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED.
 - REFER TO SPECIFICATIONS FOR FACTORY INSULATED EQUIPMENT.
- KEYED NOTES**
- A. FIELD APPLIED JACKETS NOT REQUIRED FOR FLEXIBLE ELASTOMERIC INSULATION.
- B. SELECT INSULATION THICKNESS TO PROVIDE MINIMUM R-VALUE OF 12.5.

ABOVEGROUND HVAC PIPING & VALVE APPLICATION SCHEDULE																						
PIPE SIZE (INCHES)	MATERIAL							CONNECTION							ISOLATION VALVES				KEYED NOTES			
	SOFT COPPER TYPE K	HARD COPPER TYPE L	HARD COPPER TYPE M	CARBON STEEL (SCHD. 40)	CARBON STEEL (SCHD. 60)	CARBON STEEL (STD.)	COPPER TYPE DWV	SOLDERED	BRAZED	MELDED	THREADED	FLANGED	GROOVED	PRESSURE SEAL	MECHANICALLY FORMED TEE	BALL	GENERAL SERVICE BUTTERFLY	HI-PERF BUTTERFLY		GATE		
HEATING HOT WATER SUPPLY & RETURN - MIN. WORKING PRESS. & TEMP., 125 PSIG AT 200 DEG F																						
UP TO 2				X							X								X			
UP TO 2		X						X	X						X	X	X					
2-1/2 TO 4				X					X		X	X					X					A
2-1/2 TO 4		X							X			X	X	X		X						A
6 TO 8				X					X		X	X					X					A
6 TO 8		X							X			X	X			X						A
10				X					X		X	X					X					A
12					X				X		X	X					X					A
14 AND LARGER						X			X		X						X					A

- GENERAL NOTES**
- 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
 - DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS. IF A BRONZE VALVE CONNECTS THE DISSIMILAR METALS NO FURTHER DIELECTRIC ISOLATION IS REQUIRED.
 - a. NPS 2 AND SMALLER: USE BRASS COUPLING, NIPPLE, OR UNION.
 - b. NPS 2-1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.
 - USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS.
 - HVAC EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED PIPING SYSTEM.
 - GROOVED END VALVES MAY BE USED WITH GROOVED PIPING.
- KEYED NOTES**
- A. GROOVED AND FLANGED FITTINGS, JOINTS, AND COUPLINGS, IF INDICATED AS AN ACCEPTABLE SELECTION, MAY BE USED IN ACCESSIBLE LOCATIONS FOR THIS PIPING SYSTEM ONLY. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS.
- B. BALL VALVE WITH 250 PSIG STEAM TRIM.
- C. BALL VALVE WITH 150 PSIG STEAM TRIM.

SCHEDULES GENERAL NOTES:

- TYPICAL FOR ALL SCHEDULE SHEETS:
- REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION.
 - PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
 - A – NON-FUSED DISCONNECT SWITCH
 - B – UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS
 - C – SERVICE RECEPTACLE
 - D – FUSED DISCONNECT SWITCH
 - E – COMBINATION STARTER
 - F – UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.
 - FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS, "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
 - IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT, VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
 - WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
 - WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH THE UNIT.
 - WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPURTENANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
 - WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN THE UNIT DISCONNECT IS IN THE OFF POSITION.
 - SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION), REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.



Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48068-3276
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MECHANICAL SCHEDULES



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Administration Relocation and Addition

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VIBRATION ISOLATOR APPLICATION SCHEDULE										
EQUIPMENT TYPE	EQUIPMENT CATEGORY	HORSEPOWER AND OTHER	RPM	EQUIPMENT LOCATION						KEYED NOTES
				SLAB ON GRADE			UP TO 40 FT (12 M) FLOOR SPAN			
				BASE TYPE	ISOLATOR TYPE	MIN. DEFL. IN. (MM)	BASE TYPE	ISOLATOR TYPE	MIN. DEFL. IN. (MM)	
PUMPS	CLOSE COUPLED	≤7.5 ≥10	ALL ALL	B C	2 3	0.25 (6) 0.75 (19)	C C	3 3	0.75 (19) 1.50 (38)	NOTE 3
	INLINE	5 TO 25 ≥30	ALL ALL	A A	3 3	0.75 (19) 1.50 (38)	A A	3, 8g OR 8b 3, 8g OR 8b	1.50 (38) 2.50 (64)	
	END SUCTION AND DOUBLE SUCTION/SPLIT CASE	≤40 50 TO 125 ≥150	ALL ALL ALL	C C C	3 3 3	0.75 (19) 0.75 (19) 0.75 (19)	C C C	3 3 3	1.50 (38) 2.50 (64) 3.50 (89)	
	PACKAGED PUMP SYSTEMS	ALL	ALL	A	3	0.75 (19)	C	3	2.50 (64)	
BOILERS	FIRE-TUBE WATER-TUBE, COPPER FIN	ALL ALL	ALL ALL	A A	1a OR 1b 1a OR 1b	0.25 (6) 0.12 (3)	B B	4 4	2.50 (64) 0.25 (6)	NOTE 3
	CENTRIFUGAL FANS	UP TO 22 IN. DIAMETER 24 IN. DIAMETER AND UP	ALL ≤40	ALL B B B	2 B 3 3	0.25 (6) 2.50 (64) 1.50 (38) 0.75 (19)	B B B B	3 3 3 3	1.50 (38) 3.50 (89) 2.50 (64) 1.50 (38)	
PACKAGED ROOFTOP EQUIPMENT	ALL	≥10 TONS REFRIG. OR ≥10 HP FAN	ALL				D OR E	3	1.50 (38)	NOTES 1, 3, 4, 5

GENERAL NOTES:

KEYED NOTES:

- THRUST RESTRAINTS: PROVIDE THRUST RESTRAINTS BETWEEN FAN DISCHARGE AND DUCT (IN PAIRS, LOCATED ON THE CENTERLINE OF THE DISCHARGE OUTLET OF THE FAN, BRIDGING THE FLEXIBLE DUCT CONNECTOR) FOR ALL FAN HEADS, FOR AXIAL AND CENTRIFUGAL FANS UNITS OPERATING AT 2 INCHES OR GREATER TOTAL STATIC PRESSURE AND AS SHOWN ON DRAWINGS. SPRING DEFLECTION SHALL BE SAME AS THE SUPPORT ISOLATORS.
- PIPING RISER ISOLATION: PROVIDE PIPE RISER RESILIENT ANCHORS, SPRING MOUNTS AND RESILIENT PIPE GUIDES CAPABLE OF DISTRIBUTING THE LOADS WITHIN THE BUILDING DESIGN LIMITS AT THE SUPPORT POINTS.
- HORIZONTAL PIPING VIBRATION ISOLATION: PROVIDE TYPE 8a OR 8b SPRING HANGERS FOR PIPING CONNECTED TO VIBRATION ISOLATED EQUIPMENT FOR ALL PIPING IN MECHANICAL ROOMS OR THE FOLLOWING MINIMUM HORIZONTAL DISTANCES FROM THE ISOLATED EQUIPMENT: UP TO 6' - 50 FEET (1 1/2" MINIMUM DEFLECTION), 8' AND LARGER - 100 FEET (2 1/2" MINIMUM DEFLECTION), WHICHEVER IS GREATER, AND AS SHOWN ON DRAWINGS. THE FIRST 4 HANGERS FROM THE ISOLATED EQUIPMENT SHALL BE TYPE 8b.
- DUCTWORK VIBRATION ISOLATION: PROVIDE TYPE 8a OR 8b SPRING HANGERS FOR DUCTWORK WITH A CROSS SECTION OF 2 SQUARE FEET OR GREATER CONNECTED TO AIR HANDLING UNITS, RETURN OR RELIEF FANS, AND VIBRATION ISOLATED EQUIPMENT FOR ALL SUCH DUCTWORK IN MECHANICAL ROOMS OR FOR A MINIMUM HORIZONTAL DISTANCE OF 100 FEET FROM THE ISOLATED EQUIPMENT, WHICHEVER IS GREATER, AND AS SHOWN ON DRAWINGS (3/4" MINIMUM DEFLECTION).
- IF SPAN DOES NOT EXCEED 20 FT, SPRING DEFLECTION MAY BE 1.0 IN AND TYPE D BASE MAY BE USED. FOR SPANS GREATER THAN 20 FT, USE SPRING DEFLECTION INDICATED AND TYPE E BASE.

BASE TYPES:

- BASE TYPE A - NO BASE, ISOLATORS ATTACHED DIRECTLY TO EQUIPMENT.
- BASE TYPE B - STRUCTURAL, STEEL RAILS OR BASE.
- BASE TYPE C - CONCRETE INERTIA BASE.
- BASE TYPE D - CURB - MOUNTED ALUMINUM BASE WITH 1" DEFL. SPRING ISOLATORS
- BASE TYPE E - CURB - MOUNTED STEEL BASE WITH ADJUSTABLE 1", 2" OR 3" DEFL. SPRING ISOLATORS

ISOLATOR TYPES:

- ISOLATOR TYPE 1a - ELASTOMERIC ISOLATION PAD.
- ISOLATOR TYPE 1b - ELASTOMERIC ISOLATION PAD WITH STEEL LOAD BEARING PLATE.
- ISOLATOR TYPE 2 - ELASTOMERIC FLOOR ISOLATOR.
- ISOLATOR TYPE 3 - FREE STANDING SPRING FLOOR ISOLATOR.
- ISOLATOR TYPE 4 - RESTRAINED SPRING ISOLATOR.
- ISOLATOR TYPE 5 - THRUST RESTRAINT.
- ISOLATOR TYPE 6 - AIR SPRING.
- ISOLATOR TYPE 7 - ELASTOMERIC HANGERS.
- ISOLATOR TYPE 8a - SPRING HANGERS.
- ISOLATOR TYPE 8b - SPRING HANGERS WITH VERTICAL-LIMIT STOP.

PRESCRIPTIVE INCENTIVES PROGRAM

THE MECHANICAL CONTRACTOR SHALL INCLUDE IN HIS BID AND BE RESPONSIBLE FOR PROVIDING AND MEETING ALL REQUIREMENTS FOR THE OWNER TO PARTICIPATE IN UTILITY PROVIDER REBATE PROGRAM. THE FOLLOWING ITEMS WILL BE REQUIRED BUT NOT LIMITED TO, FOR THE OWNER TO PARTICIPATE IN THIS PROGRAM:

- ON BEHALF OF THE OWNER, PROVIDE ALL REQUIRED DOCUMENTATION FOR THE RESERVATION & FINAL APPLICATIONS.
- CUSTOMER INFORMATION.
- CONTRACTOR INFORMATION.
- MECHANICAL INCENTIVES WORKSHEETS AS REQUIRED.
- MANUFACTURERS' EQUIPMENT SPECIFICATIONS AND CUT-SHEETS WITH MODEL NUMBERS, QUANTITIES AND ENERGY PERFORMANCE.
- ITEMIZED INVOICES.
- MEASURES ARE COMPLETELY INSTALLED WITHIN 90 DAYS OF PROJECT APPROVAL.
- THE FINAL APPLICATION MUST BE SUBMITTED WITHIN 60 DAYS OF PROJECT COMPLETION.

IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO CONTACT UTILITY PROVIDER REPRESENTATIVE IF A PROJECT IS DELAYED, OR SUBSTANTIALLY CHANGED.

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

ABOVEGROUND HVAC PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE

INSULATION MATERIAL & THICKNESS (INCHES)	FIELD-APPLIED JACKET MATERIAL						KEYED NOTES
	FLEXIBLE ELASTOMERIC	FIBERGLASS	MINERAL WOOL	POLYSOCYANURATE	PHENOLIC	CELLULAR GLASS	
INDOOR PIPE SYSTEM AND SIZE (INCHES)							
HEATING HOT WATER SUPPLY & RETURN 200 DEG F AND LOWER							
NPS 1-1/4 AND SMALLER	1.5					X	X A
NPS 1-1/2 AND LARGER	2					X	X A
REFRIGERANT SUCTION & HOT GAS (RIGID COPPER)							
NPS 6 AND SMALLER	1	1				X	X
NPS 8 AND LARGER	1.5	1.5				X	X
REFRIGERANT SUCTION & HOT GAS (SOFT COPPER)							
NPS 1-1/4 AND SMALLER	1					X	X
DUAL SERVICE HEATING & COOLING 40 TO 200 DEG F							
NPS 1-1/4 AND SMALLER	1.5					X	X A
NPS 1-1/2 AND LARGER	2					X	X A
HEAT RECOVERY							
1	1					X	X A, D

UNLESS OTHERWISE INDICATED OR SCHEDULED, THE FOLLOWING DO NOT REQUIRE INSULATION:

- DIRECT BURIED COOLING SYSTEM PIPING
- PIPING THAT CONVEYS FLUIDS HAVING DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60 DEG F. AND 105 DEG F., INCLUSIVE.

GENERAL NOTES:

- "X" OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.
- FOR PIPING NPS 1-1/4 AND SMALLER WITHIN PARTITIONS IN CONDITIONED SPACES INSULATION MAY BE REDUCED BY ONE-INCH THICKNESS, BUT NOT TO LESS THAN ONE-INCH THICKNESS.
- FOR PIPING NPS 1 AND SMALLER, INSULATION IS NOT REQUIRED FOR STRAINERS, CONTROL VALVES, AND BALANCING VALVES.

KEYED NOTES:

- A. PROVIDE FIELD APPLIED JACKET FOR PIPING EXPOSED IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITORS CLOSETS, RECEIVING ROOMS, TEST AREAS, CIRCULATION AREAS AND SUCH AREAS SUBJECT TO DAMAGE WITHIN 10 FEET (3 METERS) OF FINISHED FLOOR.
- B. PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION.
- C. STEAM AND CONDENSATE PIPING JACKET SHALL BE STUCCO EMBOSSED.
- D. PIPING WITHIN ENERGY RECOVERY UNITS SHALL BE TYPE 304 STAINLESS STEEL, SMOOTH; 0.010 INCH THICK. SEAMS AND JOINTS CAULKED WITH CHEMICALLY RESISTANT SEALER.

DOMESTIC HOT WATER SYSTEM EXPANSION TANK SCHEDULE

UNIT IDENTIFICATION	SYSTEM SERVED	LOCATION	ESTIMATED TOTAL SYSTEM VOLUME GALLONS	TYPE	OPERATING PRESSURES AT EXPANSION TANK			SYSTEM OPERATING TEMPERATURES		EXPANSION VOLUME GALLONS	ACCEPTANCE FACTOR	MINIMUM TANK VOLUME GALLONS	DIMENSIONS		MODEL NUMBER	KEYED NOTES
					INITIAL PSIG	PRE-CHARGE PSIG	MAX (OPERATING) PSIG	MINIMUM °F	MAXIMUM °F				DIAMETER INCHES	HEIGHT INCHES		
ET-2	DWH-1	MECH. ROOM 155	150	DIAPHRAGM	30	29.2	50	40	140	10.3	0.3	8	15 3/8	19 1/4	PT-25V	

GENERAL NOTES:

- MODEL NUMBERS ARE BELL & GOSSETT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PRE-CHARGE THE TANK TO THE VALUE INDICATED IN THE SCHEDULE. FOR TANKS THAT ARE SUPPLIED PRE-CHARGED BY THE MANUFACTURER, THE CONTRACTOR SHALL CONFIRM THE PRESSURE AND MAKE ADJUSTMENTS AS REQUIRED.

DUCT SYSTEM INSULATION APPLICATION SCHEDULE

INSULATION MATERIAL & THICKNESS (INCHES)	FIELD-APPLIED JACKET MATERIAL						KEYED NOTES
	FIBERGLASS BLANKET 0.75 LB/QU FT	FIBERGLASS BLANKET 1.0 LB/QU FT	FIBERGLASS BOARD 2.25 LB/QU FT	FIBERGLASS BOARD 6.0 LB/QU FT	FLEXIBLE ELASTOMERIC	ASTM E2336 2-HOUR FIRE RATED BLANKET	
DUCT SYSTEMS LOCATED INDOORS							
SUPPLY AIR, EXCEPT AS NOTED BELOW							
1.5							A, E
RECTANGULAR SUPPLY AIR IN MECHANICAL ROOMS							
1.5							
RECTANGULAR OUTSIDE AIR AND MIXED AIR IN MECHANICAL ROOMS							
1.5							
EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, EXCEPT AS NOTED BELOW							
1.5							
RECTANGULAR EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, IN MECHANICAL ROOMS							
1.5							
DUCT SYSTEMS LOCATED OUTDOORS							
RECTANGULAR DUCTS AND AIR PLENUMS, ALL TYPES							
			2				X
DUCT SYSTEMS LOCATED IN ATTICS, CRAWL SPACES, OR PARKING GARAGES HAVING NATURAL OR MECHANICAL VENTILATION							
RECTANGULAR DUCTS AND AIR PLENUMS, ALL TYPES							
3		2					
ROUND & FLAT OVAL SUPPLY AIR							
3							
ROUND & FLAT OVAL RETURN & EXHAUST AIR							
3							

PLENUMS, DUCTS, AND DUCT ACCESSORIES NOT REQUIRING INSULATION:

- FIBROUS-GLASS DUCTS
- DOUBLE-WALL METAL DUCTS WITH INSULATION OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 - 2013
- METAL DUCTS WITH DUCT LINER OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 - 2013
- FABRIC SUPPLY DUCTS
- FACTORY-INSULATED FLEXIBLE DUCTS
- FACTORY-INSULATED PLENUMS AND CASINGS
- FLEXIBLE CONNECTORS
- VIBRATION-CONTROL DEVICES
- FACTORY-INSULATED ACCESS PANELS AND DOORS

GENERAL NOTES:

- "X" OR THICKNESS IN INCHES INDICATE ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- REFER TO METAL DUCT SECTION OF SPECIFICATIONS FOR DUCT LINING AND DOUBLE-WALL INSULATED DUCT.
- REFER TO HVAC CASINGS SECTION OF SPECIFICATIONS FOR DOUBLE-WALL INSULATED PLENUMS.

KEYED NOTES:

- A. INCLUDE INSULATION AROUND DUCT MOUNTED COILS AND AIR TERMINAL UNIT COILS.
- B. NUMBER OF LAYERS AND TOTAL INSULATION THICKNESS AS RECOMMENDED BY SELECTED MANUFACTURER.
- C. DOES NOT APPLY TO PREFABRICATED, ZERO-CLEARANCE GREASE DUCT.
- D. PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL DUCT INSULATION.
- E. EXPOSED SUPPLY DUCTWORK LOCATED IN A CONDITIONED SPACE SERVED BY THE SAME AIR HANDLING SYSTEM IS NOT REQUIRED TO BE INSULATED.

MECHANICAL SCHEDULES



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

M7.02

5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

HORIZONTAL PIPING AND SUPPORT APPLICATION SCHEDULE

	HANGER OR SUPPORT TYPE						SHIELD TYPE				KEYED NOTES
	MSS TYPE 1 CLEVIS HANGER	MSS TYPE 10 SWIVEL RING BAND HANGER	MSS TYPE 41 DOUBLE ROD PIPE ROLLER	MSS TYPE 43 SINGLE ROD ROLLER HANGER	MSS TYPE 44 PIPE ROLLER & STAND	MSS TYPE 46 ADJUSTABLE PIPE ROLL STAND	MSS TYPE 39 PROTECTION SADDLE	MSS TYPE 40 INSULATION PROTECTION SHIELD	THERMAL-HANGER SHIELD		
METAL PIPE TYPE & SIZE											
UNINSULATED SINGLE PIPE											
UP TO 2 INCH	X	X									
2-1/2 INCH TO 4 INCH	X	X									
6 INCH TO 8 INCH	X										
INSULATED SINGLE COLD PIPES											
UP TO 2 INCH	X	X					X	X	A		
2-1/2 INCH TO 4 INCH	X							X			
6 INCH TO 8 INCH	X							X			
INSULATED SINGLE HOT PIPES											
UP TO 2 INCH	X	X					X	X	X	A, C	
2-1/2 INCH TO 4 INCH			X	X	X	X	X	X	X	B, C	
6 INCH TO 8 INCH			X	X	X	X	X	X	X	B, C	

GENERAL NOTES:

- "X" INDICATES APPROVED HANGER OR SUPPORT ELEMENTS. IF MORE THAN ONE HANGER OR SUPPORT ELEMENT IS INDICATED, SELECTION FROM APPROVED ELEMENTS IS CONTRACTOR'S OPTION.
- REFER TO HANGER AND SUPPORT SECTION FOR APPROVED MANUFACTURERS.
- HANGERS AND SUPPORTS USED FOR FIRE PROTECTION SERVICES SHALL BE UL LISTED OR FMG APPROVED.
- HANGER ELEMENTS IN CONTACT WITH BARE COPPER PIPE SHALL BE COPPER PLATED, PLASTIC COATED, FELT LINED, OR USE MANUFACTURED COPPER TUBE ISOLATORS.
- REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR HANGER SPACING.
- MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING U-BOLTS OR STRUT CLAMPS AND THERMAL HANGER SHIELDS. REFER TO KEYED NOTE A.
- MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD HANGER ELEMENTS INDICATED FOR SINGLE COLD PIPES.
- MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING ROLLER ELEMENTS AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEYED NOTES B AND C.
- MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD ROLLER HANGERS INDICATED AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEYED NOTES B AND C.
- REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR ADDITIONAL SYSTEM SPECIFIC HANGER APPLICATIONS.

KEYED NOTES:

- USE THERMAL HANGER SHIELD ON TRAPEZE SUPPORTED INSULATED PIPE TO PREVENT CRUSHING OF INSULATION.
- USE THERMAL HANGER SHIELD DESIGNED FOR USE ON ROLLER SUPPORTS FOR INSULATED HOT PIPE .
- USE TYPE 39 PROTECTION SADDLES IF INSULATION WITHOUT VAPOR BARRIER IS INDICATED. FILL INTERIOR VOIDS WITH INSULATION MATCHING ADJOINING INSULATION.

DUCT SYSTEM APPLICATION SCHEDULE

	DUCT MATERIAL											KEYED NOTES					
	600 GALV. SHEET METAL	DOUBLE-WALL LINED 600 GALV. SHEET METAL (SOLID INNER WALL)	DOUBLE-WALL LINED 600 GALV. SHEET METAL (PERF. INNER WALL)	600 GALV. SHEET METAL WITH 1-INCH LINING	GALVANNEALED SHEET METAL	ALUMINUM	TYPE 304 STAINLESS STEEL	TYPE 316 STAINLESS STEEL	PVC COATED GALV. SHEET METAL (4X1)	PVC COATED GALV. SHEET METAL (1X4)	PVC COATED GALV. SHEET METAL (4X4)		16 GA. CARBON STEEL	ZERO-CLEARANCE PREFABRICATED RANGE HOOD EXHAUST DUCT	FABRIC	DESIGN PRESSURE CLASS (INCHES WG)	SEAL CLASS
AIR SYSTEMS																	
SUPPLY AIR WITHOUT TERMINAL UNITS	X														+2	A	5
RETURN AIR WITHOUT TERMINAL UNITS	X														-2	A	5
EXHAUST AIR WITHOUT TERMINAL UNITS	X														-2	A	5
AIR TRANSFER DUCT				X											+2	A	5
RELIEF AIR DOWNSTREAM OF FANS	X														+6	A	5
OUTSIDE AIR AND MIXED AIR DUCT	X														-6	A	5

GENERAL NOTES:

- "X" INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- 4 X 1 PVC-COATED GALVANIZED STEEL FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON EXTERIOR SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON INTERIOR SURFACES.
- 1 X 4 (4 X 1 REVERSE COATED) PVC-COATED GALVANIZED STEEL FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON INTERIOR SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON EXTERIOR SURFACES.
- 4 X 4 PVC-COATED GALVANIZED STEEL FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND 4 MILS (0.10 MM) THICK ON OPPOSITE SURFACES.

KEYED NOTES:

- SCREWS, DAMPERS, OR PROJECTIONS OF ANY TYPE ON INTERIOR OF DUCT SURFACE ARE PROHIBITED.
- DUCT SHALL BE LINED WITHIN 25 FEET UPSTREAM OF FANS.
- ALL WELDED CONSTRUCTION.

PLUMBING CONNECTION SCHEDULE

UNIT IDENTIFICATION	CW INCHES	HW INCHES	SAN INCHES	VENT INCHES	KEYED NOTES
UR-1	3/4	-	2	1 1/2	
WC-1	1 1/2	-	4	2	
LAV-1	1/2	1/2	1 1/2	1 1/2	
SK-1	3/4	3/4	1 1/2	1 1/2	
SS-1	3/4	3/4	3	-	
EWC-1	1/2	-	1 1/2	1 1/2	
SH-1	3/4	3/4	-	-	1
FD-1	-	-	3	-	
FD-2	-	-	4	-	
FS-1	-	-	6	-	
FS-2	-	-	3	-	

GENERAL NOTES:

- INDIVIDUAL WATER LINE BRANCHES, WASTE LINES, VENTS, AND TRAPS FOR CONNECTION TO INDIVIDUAL FIXTURES, FIXTURE FITTINGS, AND SPECIALTIES SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE OR AS INDICATED ON DRAWINGS, WHICHEVER IS GREATER.

KEYED NOTES:

- PROVIDE MIXING VALVE.

ROOF MOUNTED PIPING SUPPORT APPLICATION SCHEDULE

	SUPPORT TYPE						SHIELD TYPE			KEYED NOTES	
	LOW FIXED-HEIGHT SINGLE-BASE STAND	LOW ADJUSTABLE-HEIGHT SINGLE-BASE STAND	HIGH ADJUSTABLE-HEIGHT SINGLE-BASE STAND	LOW FIXED HEIGHT SINGLE-BASE ROLLER STAND	LOW ADJUSTABLE-HEIGHT SINGLE-BASE ROLLER STAND	HIGH MULTIPLE-BASE PIPE STAND	CURB-MOUNTING PIPE STAND	MSS TYPE 39 PROTECTION SADDLE	MSS TYPE 40 INSULATION PROTECTION SHIELD		THERMAL-HANGER SHIELD
PIPE TYPE & SIZE											
SINGLE PIPES											
NATURAL GAS NPS 5 AND SMALLER				X	X				X		
REFRIGERANT PIPE NPS 4 AND SMALLER				X	X				X		
CONDENSATE DRAIN PIPE ALL SIZES	X	X							X		
MULTIPLE PARALLEL PIPES											
NATURAL GAS NPS 5 AND SMALLER	X	X							X		
REFRIGERANT PIPE NPS 4 AND SMALLER	X	X							X		

GENERAL NOTES:

- "X" INDICATES APPROVED HANGER OR SUPPORT ELEMENTS. IF MORE THAN ONE HANGER OR SUPPORT ELEMENT IS INDICATED, SELECTION FROM APPROVED ELEMENTS IS CONTRACTOR'S OPTION.
- REFER TO HANGER AND SUPPORT SECTION FOR APPROVED MANUFACTURERS.
- SUPPORT ELEMENTS IN CONTACT WITH BARE COPPER PIPE SHALL BE COPPER PLATED, PLASTIC OR PLASTIC COATED, FELT LINED, OR USE MANUFACTURED COPPER TUBE ISOLATORS.

KEYED NOTES:

- TYPE 40 SHIELD MAY BE USED ON INSULATED PIPE SIZED NPS 2 AND SMALLER.
- CONSULT WITH SUPPORT MANUFACTURER FOR CUSTOM SUPPORT REQUIREMENTS.
- USE THERMAL HANGER SHIELD FOR INSULATED PIPE.
- TYPE 39 PROTECTION SADDLE MAY BE USED IF INSULATION WITHOUT VAPOR BARRIER IS INDICATED. FILL INTERIOR VOIDS WITH INSULATION MATCHING ADJOINING INSULATION.

ABOVEGROUND PLUMBING PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE

	INSULATION MATERIAL & THICKNESS (INCHES)											FIELD-APPLIED JACKET MATERIAL			KEYED NOTES
	FLEXIBLE ELASTOMERIC	FIBERGLASS	MINERAL WOOL	POLYISOCYANURATE	PHENOLIC	CELLULAR GLASS	CALCIUM SILICATE	ALUMINUM	STAINLESS STEEL	PVC	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	PVC (INDOOR)	PVC (OUTDOOR)		
INDOOR PIPE SYSTEM AND SIZE (INCHES)															
DOMESTIC COLD WATER	1	1						X	X						A
DOMESTIC HOT WATER SUPPLY & RETURN 140 DEG F AND LESS:															
NPS 1-1/4 AND SMALLER	1	1						X	X						A
NPS 1-1/2 AND LARGER	1.5	1.5						X	X						A
STORM WATER & OVERFLOW	1	1						X	X						A
ROOF DRAIN AND OVERFLOW DRAIN BODIES	1	1													
CONDENSATE AND EQUIPMENT DRAIN PIPING BELOW 60 DEG F	0.75	1													
FLOOR DRAINS, TRAPS AND SANITARY DRAIN PIPING WITHIN 10 FEET OF DRAIN RECEIVING CONDENSATE AND EQUIPMENT DRAIN WATER BELOW 60 DEG F	0.75	1						X	X						A

UNLESS OTHERWISE INDICATED OR SCHEDULED, DO NOT INSULATE THE FOLLOWING:

- FIRE SUPPRESSION PIPING
- UNDERGROUND PIPING
- LABORATORY GAS AND VACUUM PIPING
- MEDICAL GAS AND VACUUM PIPING
- FUEL GAS PIPING
- FUEL OIL PIPING

GENERAL NOTES:

- "X" OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.

KEYED NOTES:

- PROVIDE FIELD APPLIED JACKET FOR PIPING EXPOSED IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITORS CLOSETS, RECEIVING ROOMS, TEST AREAS, CIRCULATION AREAS AND SUCH AREAS SUBJECT TO DAMAGE, WITHIN 10 FEET (3 METERS) OF FINISHED FLOOR.
- PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION.

Bidding and Permits: 31 July 2023
 Owner Review: 14 July 2023
 Design Development: 08 May 2023



Peter Basso Associates Inc.
 CONSULTING ENGINEERS
 5145 Livernois, Suite 100
 Troy, Michigan 48068-3276
 Tel: 248-679-5666
 Fax: 248-879-0007
 www.PeterBassoAssociates.com
 PBA Project No: 2022.0419

Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

ENERGY RECOVERY UNIT SCHEDULE (PRE-PURCHASED)

UNIT IDENTIFICATION	AREA / SYSTEM SERVED	SUPPLY FAN																EXHAUST FAN						HEAT EXCHANGER (SUMMER)						HEAT EXCHANGER (WINTER)						COOLING SECTION - DX										HEATING SECTION - GAS FIRED (NATURAL GAS)						OUTSIDE AIR FILTERS			RETURN FILTERS			ELECTRICAL						CURB		MODEL NUMBER	UNIT WEIGHT / CURB (LBS.)	SA/RA CONFIG.	EA/OA CONFIG.	KEYED NOTES
		CFM	MIN. OA CFM / %	ESP*	TSP*	CONTROL TYPE	MOTOR		CFM	ESP*	TSP*	CONTROL TYPE	MOTOR		SUPPLY SIDE			EXHAUST SIDE			EFFIC. (%)	SUPPLY SIDE			EXHAUST SIDE			EFFIC. (%)	TOTAL CAPACITY MBH	E.D.B. °F	E.W.B. °F	L.D.B. °F	L.W.B. °F	TOTAL MBH	SENSIBLE MBH	REFRIG. TYPE	MAX A.P.D. IN. WG	TOTAL CAPACITY MBH	E.A.T. °F	L.A.T. °F	MIN./MAX MANUFACTURER REQUIRED INLET PRESSURE AT GAS TRAIN	MAXIMUM ALLOWABLE OUTPUT AT MINIMUM FIRING RATE (MBH)	MIN. NO. OF CAPACITY CONTROL STAGES	MERV	AREA SQ. FT.	SP* TOTAL	MERV	AREA SQ. FT.	SP* TOTAL	VOLTS	PHASE	FLA	MCA	MOP	SCCR KA	OPTIONS/ ACCESSORIES	TYPE	HEIGHT												
							BHP	HP					E.A.T. °F	L.A.T. °F	A.P.D. IN. WG	E.A.T. °F	L.A.T. °F	A.P.D. IN. WG	E.A.T. °F	L.A.T. °F		A.P.D. IN. WG	E.A.T. °F	L.A.T. °F	A.P.D. IN. WG																																													
ERU-1	EXISTING BUILDING	5500	5500	1.0	3.472	AUTO	4.78	7.5	5500	0.75	2.341	AUTO	3.69	5.0	91	80	0.79	75	85.8	0.79	67.6	-10	43.4	0.79	72	17.4	0.79	66.8	213.1	80	65.4	52.9	52.6	213.1	163.4	R-410A	0.302	400	43.4	97.3	6-14	8	MOD. 15:1	8	2.78	2	8	2.78	2	208	3	96.5	109.3	150	14	B	NO	YES	18	VXE-212-52 D-151-M-01	8150	SIDE/END	SIDE/END							

GENERAL NOTES:
 1. REFER TO SCHEDULES GENERAL NOTES.
 2. MODEL NUMBERS ARE VALENT UNLESS OTHERWISE NOTED.
 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.
 4. FOR UNITS LOCATED OUTDOORS, INSULATE AND PROVIDE ELECTRIC HEAT TRACE FOR HEAT EXCHANGER CABINET DRAIN PIPING.

GAS FIRED BOILER SCHEDULE

UNIT IDENTIFICATION	NUMBER OF CONTROL STAGES	FUEL		AGA INPUT MBH	AGA OUTPUT MBH	PRESSURE RATING PSIG	DIMENSIONS INCHES			WATER				MODULATION/CONTROL TYPE	ELECTRICAL					MODEL NUMBER	REMARKS
		TYPE	INLET PRESSURE AT GAS TRAIN INCH W.C.				LENGTH	WIDTH	HEIGHT	E.W.T. °F	L.W.T. °F	FLOW GPM	W.P.D. FT		VOLTS	PHASE	FLA	MOP	OPTIONS/ACCESSORIES		
B-1	1	NATURAL GAS	3.5 - 14	399	371	80	36.5	21.25	47	130	150	45	7	AUTO	120	1	15	20	A	CM-399	MOUNTING RACK
B-2	1	NATURAL GAS	3.5 - 14	500	456	80	53	29	60	130	150	45	7	AUTO	120	1	15	20	A	CM-399	MOUNTING RACK

NOTE:
 1. REFER TO SCHEDULES GENERAL NOTES.
 2. MODEL NUMBERS ARE PATTERSON KELLEY UNLESS OTHERWISE NOTED.
 3. PROVIDE BOILER WITH CONDENSATE NEUTRALIZATION TANK ASSEMBLY.

POWER VENTILATOR SCHEDULE

UNIT IDENTIFICATION	SYSTEM SERVED	TYPE	AIRFLOW CFM	T.S.P. IN. W.G.	TIP SPEED FPM	FAN RPM	MOTOR				CURB HEIGHT INCHES	MODULATION/CONTROL TYPE	ELECTRICAL		UNIT INLET Lw BY OCTAVE BAND								MODEL NUMBER	KEYED NOTES		
							BHP	HP	RPM	DRIVE TYPE			VOLTS	PHASE	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)				
							SCCR KA (NOTE 3)	OPTIONS/ACCESSORIES																		
EF-1	NEW BATHROOMS/JAN CLOSET	CENTRIFUGAL	470	0.05	4395	1544	0.04	1/10	1725	DIRECT	17	AUTO	115	1	5	A	61	68	70	60	59	58	54	47	G-080-VG	
EF-2	CLASSROOM TOILETS	CENTRIFUGAL	280	0.05	2674	1257	0.01	1/15	1725	DIRECT	17	AUTO	115	1	5	A	65	63	60	49	45	43	35	30	G-070-VG	
EF-3	CLASSROOM TOILETS	CENTRIFUGAL	210	0.05	4350	1528	0.05	1/10	1725	DIRECT	17	AUTO	115	1	5	A	71	74	68	61	59	57	50	46	G-080-VG	

GENERAL NOTES:
 1. REFER TO SCHEDULES GENERAL NOTES.
 2. MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED.
 3. CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

PUMP SCHEDULE

UNIT IDENTIFICATION	SYSTEM SERVED	LOCATION	TYPE	COUPLING TYPE	WATERFLOW GPM	FLUID TYPE	COLDEST SYSTEM OPERATING TEMP. °F FOR PUMP SELECTION	PUMP HEAD FT.	OVERLOAD GPM	MINIMUM EFFICIENCY %	MOTOR			MODULATION/CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES
											BHP	HP	RPM		VOLTS	PHASE	SCCR KA (NOTE 4)	OPTIONS/ACCESSORIES		
CP-1	B-1	MECHANICAL ROOM 138	INLINE	CLOSE	45	W	90	25	NON-OVERLOADING	62	0.494	3/4	1725	AUTO	208	3	5	---	e-90 1.5AB	#
CP-2	B-2	MECHANICAL ROOM 138	INLINE	CLOSE	45	W	90	25	NON-OVERLOADING	62	0.494	3/4	1725	AUTO	208	3	5	---	e-90 1.5AB	#
CP-3	HWH	MECHANICAL ROOM 138	INLINE	CLOSE	85	W	90	45	NON-OVERLOADING	70.8	1.39	2	1725	VFC	208	3	5	---	e-90 2AB	#
CP-4	HWH	MECHANICAL ROOM 138	INLINE	CLOSE	85	W	90	45	NON-OVERLOADING	70.8	1.39	2	1725	VFC	208	3	5	---	e-90 2AB	#
CP-5	DWH-1	MECHANICAL ROOM 155	INLINE	CLOSE	5	W	40	20	NON-OVERLOADING	---	---	1/6	3300	AUTO	120	1	---	---	PL-36B	

GENERAL NOTES:
 1. REFER TO SCHEDULES GENERAL NOTES.
 2. MODEL NUMBER ARE BELL & GOSSETT UNLESS OTHERWISE NOTED.
 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.
 4. CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

HOT WATER CABINET UNIT HEATER SCHEDULE

UNIT IDENTIFICATION	CAPACITY MBH	AIR			FAN		WATER				CONTROL VALVE W.P.D. FT. HEAD	DIMENSIONS			RECESS DEPTH INCHES	FILTER		MODULATION/CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES	
		AIRFLOW CFM	E.D.B. °F	L.D.B. °F	HP	RPM	FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F		MAXIMUM W.P.D. FT. HEAD	LENGTH INCHES	HEIGHT INCHES		DEPTH INCHES	TYPE		AREA SQ. FT.	VOLTS	PHASE	SCCR KA			OPTIONS/ACCESSORIES
CUH-1	27.4	420	60	90	1/4	925	2.9	WATER	150	130	2.3	11.5	50.2	24	10	10	MERV 8	2.3	AUTO	120	1	5	A	RRC-440-04	
CUH-2	17.2	300	60	90	1/4	925	2.1	WATER	150	130	1.1	11.5	44.2	24	10	10	MERV 8	1.9	AUTO	120	1	5	A	RRC-440-03	
CUH-3	17.2	300	60	90	1/4	925	2.1	WATER	150	130	1.1	11.5	44.2	24	10	10	MERV 8	1.9	AUTO	120	1	5	A	RRC-440-03	
CUH-4	19.2	300	60	90	1/4	925	2.1	WATER	150	130	1.1	11.5	44.2	24	10	10	MERV 8	1.9	AUTO	120	1	5	A	RRC-440-03	
CUH-5	19.7	300	60	90	1/4	925	2.1	WATER	150	130	1.1	11.5	44.2	24	10	10	MERV 8	1.9	AUTO	120	1	5	A	RRC-440-03	
CUH-6	17.2	300	60	90	1/4	925	2.1	WATER	150	130	1.1	11.5	44.2	24	10	10	MERV 8	1.9	AUTO	120	1	5	A	RW-440-03	
CUH-7	8.8	220	60	90	1/4	925	0.9	WATER	150	130	0.1	11.5	38.2	24	10	10	MERV 8	1.5	AUTO	120	1	5	A	RRC-440-02	

GENERAL NOTES:
 1. REFER TO SCHEDULES GENERAL NOTES.
 2. MODEL NUMBERS ARE RITTLING UNLESS OTHERWISE NOTED.
 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

AIR & DIRT SEPARATOR SCHEDULE

INLET/OUTLET PIPE SIZE (INCHES)	MAX SYSTEM FLOW (GPM)	MAX PRESSURE DROP CLEAN (FT HD)	BUNDLE REMOVAL CLEARANCE NOTE 3 (INCHES)	OPERATING WEIGHT (LBS)	TYPE	MODEL NUMBER	KEYED NOTES
2	35	0.70	12	115	STANDARD VELOCITY / AIR & DIRT	VDN 200 FA	
2 1/2	57	0.7	12	160	STANDARD VELOCITY / AIR & DIRT	VDN 250 FA	
3	110	0.85	16	210	STANDARD VELOCITY / AIR & DIRT	VDN 300 FA	
4	220	1.10	16	250	STANDARD VELOCITY / AIR & DIRT	VDN 400 FA	
6	540	1.30	25	400	STANDARD VELOCITY / AIR & DIRT	VDN 600 FA	
	650	3.75	43	400	HIGH VELOCITY / AIR & DIRT	VHN 600 FA	
8	940	1.40	33	775	STANDARD VELOCITY / AIR & DIRT	VDN 800 FA	
	1280	5.9	55	775	HIGH VELOCITY / AIR & DIRT	VHN 800 FA	
10	1470	1.60	44	1,165	STANDARD VELOCITY / AIR & DIRT	VDN 1000 FA	
	2280	8.5	68	1,165	HIGH VELOCITY / AIR & DIRT	VHN 1000 FA	
12	2090	2.00	54	1,785	STANDARD VELOCITY / AIR & DIRT	VDN 1200 FA	
	3500	11.50	80	1,785	HIGH VELOCITY / AIR & DIRT	VHN 1200 FA	

GENERAL NOTES:
 1. MODEL NUMBERS ARE SPIROTHERM UNLESS OTHERWISE NOTED.
 2. SEPARATOR FLANGE CONNECTION MUST BE A MINIMUM OF THE PIPE DIAMETER SIZE OF WHICH THE SEPARATOR IS INSTALLED.
 3. MINIMUM BUNDLE REMOVAL CLEARANCE IS MEASURED FROM CENTERLINE OF INLET/OUTLET PIPING. PROVIDE CLEARANCE BELOW UNIT TO DIMENSION LISTED TO ALLOW REMOVAL OF HEAD AND ELEMENT BUNDLE.
 4. REFER TO PUMP SCHEDULE FOR SYSTEM FLOW.

HVAC SYSTEM EXPANSION TANK SCHEDULE

UNIT ID	SYSTEM SERVED	LOCATION	ESTIMATED TOTAL SYSTEM VOLUME GALLONS	TYPE	FLUID TYPE	SYSTEM FILL VALVE OR GLYCOL PUMP PRESSURE SETTING PSIG	OPERATING PRESSURES AT EXPANSION TANK		SYSTEM OPERATING TEMPERATURES		EXPANSION VOLUME GALLONS	ACCEPTANCE FACTOR	MINIMUM TANK VOLUME GALLONS	DIMENSIONS		MODEL NUMBER	KEYED NOTES
							PRE-CHARGE PSIG	MAX (OPERATING) PSIG	MINIMUM °F	MAXIMUM °F				DIAMETER INCHES	HEIGHT INCHES		
ET-1	HWH	MECH. ROOM 138	315	BLADDER	WATER	17	16.2	41.8	40	150	26	0.4	20	20	31	B100	#

GENERAL NOTES:
 1. MODEL NUMBERS ARE BELL & GOSSETT UNLESS OTHERWISE NOTED.
 2. THE CONTRACTOR SHALL PRE-CHARGE THE TANK TO THE VALUE INDICATED IN THE SCHEDULE. FOR TANKS THAT ARE SUPPLIED PRE-CHARGED BY THE MANUFACTURER, THE CONTRACTOR SHALL CONFIRM THE PRESSURE AND MAKE ADJUSTMENTS AS REQUIRED.
 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

Bidding and Permits: 31 July 2023
 Owner Review: 14 July 2023
 Design Development: 08 May 2023



MECHANICAL SCHEDULES

EHRESMAN ARCHITECTS
ehresmanarchitects.com

Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

803 W. Big Beaver Road, Suite 350, Troy, MI 48064 | 248.244.9710
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SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE table with columns for Indoor Unit (Unit Identification, Total Capacity, Evaporator Fan, Cooling Coil, Model Number) and Outdoor Unit (Unit Identification, Condensing Section, Modulation/Control Type, Electrical, Model Number, Keyed Notes).

GENERAL NOTES: 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBERS DAIKIN UNLESS OTHERWISE NOTED.

KEYED NOTES: 1. INDOOR UNIT POWER FEED THROUGH OUTDOOR UNIT. 2. UNITS SHALL BE CAPABLE OF OPERATING DOWN TO 0 DEG. F. 3. MANUFACTURER PROVIDED CONDENSATE PUMP.

BRANCH SELECTOR BOX SCHEDULE table with columns for Unit Tag, Branch Selector Box - Electrical (Volts, Phase, MOP, MCA, Options/Accessories), Model, and Remarks.

NOTE: 1. REFER TO SCHEDULE GENERAL NOTES. 2. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED.

UNIT VENTILATOR APPLICATION SCHEDULE (PRE-PURCHASED) table with columns for Unit Identification, UV Type, Location/Area Served, Control Valve Type, Electrical SCR KA, and Keyed Notes.

AIR COOLED CONDENSING UNIT SCHEDULE table with columns for Unit ID, System Served, Nominal Cooling/Heating Capacity, Refrigerant, Number of Stages, Compressor, Modulation/Control Type, Electrical, Model Number, and Remarks.

NOTE: 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED. 3. PROVIDE WITH LOW AMBIENT TEMPERATURE.

GRAVITY RELIEF HOOD SCHEDULE table with columns for Unit Identification, System Served, CFM, Throat Size, Throat Velocity, Static Pressure Drop, Hood Size (Width, Length, Height), Curb Height, Hood Construction, Model Number, and Keyed Notes.

GENERAL NOTES: 1. MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED. 2. PROVIDE WITH BIRD SCREEN.

DOMESTIC WATER HEATER SCHEDULE (ELECTRIC) table with columns for Unit Identification, Storage Capacity, KW Input, Recovery, E.W.T., L.W.T., Modulation/Control Type, Electrical, Model Number, and Keyed Notes.

GENERAL NOTES: 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBERS ARE BOCK (ELECTRITHERM) UNLESS OTHERWISE NOTED.

UNIT VENTILATOR SCHEDULE (PRE-PURCHASED) table with columns for Unit Type, Fan, Cooling Coil, Heating Coil, Arrangement, Modulation/Control Type, Electrical, Model Number, and Keyed Notes.

GENERAL NOTES: 1. REFER TO SCHEDULES GENERAL NOTES. 2. MANUFACTURER BASED ON DAIKIN (HORIZONTAL UNITS), AIREDALE (VERTICAL UNITS) UNLESS OTHERWISE INDICATED.

FAN COIL UNIT SCHEDULE (PRE-PURCHASED) table with columns for Unit Identification, Nominal Airflow, Minimum O.A. CFM, Fan, Cooling Coil, Heating Coil, Maximum Unit Dimensions, Filter Type, Modulation/Control Type, Electrical, Model Number, and Keyed Notes.

GENERAL NOTES: 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED. 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL. 4. CAPACITIES BASED ON HIGH SPEED SETTING. 5. COOLING COIL CAPACITY BASED ON 75% FBD, 62.5TWB EAT.

ACU APPLICATION SCHEDULE

ACU APPLICATION SCHEDULE table with columns for Unit ID, Location/Area Served, Served By, Tag, and Remarks.

MAXIMUM SOUND POWER LEVELS

MAXIMUM SOUND POWER LEVELS table with columns for Unit I.D., Unit Inlet Lw by Octave Band (63 Hz to 8000 Hz), and Sound Power Level (dB).

GENERAL NOTES: 1. MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED. 2. PROVIDE WITH BIRD SCREEN.

DUCTLESS AIR CONDITIONING UNIT SCHEDULE

DUCTLESS AIR CONDITIONING UNIT SCHEDULE table with columns for Unit Tag, Total Capacity, Evaporator Fan, Cooling Coil, Heating Coil, Refrigerant, Electrical, Model Number, and Remarks.

NOTE: 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBERS DAIKIN UNLESS OTHERWISE NOTED.

HOT WATER RADIANT WALL PANEL SCHEDULE

HOT WATER RADIANT WALL PANEL SCHEDULE table with columns for Unit Identification, Capacity, Water Temp, Dimensions, Finish, Construction, Control Valve, Model Number, and Remarks.

NOTE: 1. MODEL NUMBERS ARE RUNTAL UNLESS OTHERWISE NOTED. 2. PROVIDE VERTICAL PIPE TRIMS, END CAPS, AND CORNER TRIM ACCESSORIES. 3. ARCHITECT TO SELECT FINISH FROM MANUFACTURERS STANDARD COLORS.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

GRILLE, REGISTER, AND DIFFUSER SCHEDULE table with columns for Unit Identification, Type, Face Size, Neck Size, Frame Type, Accessory, Construction, Finish, Model Number, and Keyed Notes.

GENERAL NOTES: 1. MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED. 2. COORDINATE FINISH SELECTION AND FRAME WITH CEILING TYPE AND ARCHITECT.

INTAKE HOOD SCHEDULE

INTAKE HOOD SCHEDULE table with columns for Unit I.D., System Served, CFM, Throat Size, Hood Intake Velocity, Throat Velocity, Static Pressure Drop, Hood Size, Curb Height, Hood Construction, Model Number, and Keyed Notes.

GENERAL NOTES: 1. MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED. 2. PROVIDE WITH BIRD SCREEN.

Bidding and Permits: 31 July 2023
Owner Review: 14 July 2023
Design Development: 08 May 2023



Peter Basso Associates Inc. CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48068-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No. 2022.0419

Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

M7.05

TEMPERATURE CONTROL - SYMBOLS LIST

SCHEMATIC SYMBOLS

SYMBOL	DESCRIPTION
AQ	AQUASTAT, STRAP ON BULB
CO2	CARBON DIOXIDE SENSOR - WALL MOUNTED
CO2	CARBON DIOXIDE SENSOR - DUCT MOUNTED
CS	CURRENT SWITCH
CT	CURRENT TRANSDUCER
	DAMPER - OPPOSED BLADE
	DAMPER - PARALLEL BLADE
M	DAMPER MOTOR
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
ECM	ELECTRONICALLY COMMUTATED MOTOR
CM	FIRE ALARM SYSTEM, ADDRESSABLE CONTROL MODULE
FM	FLOW METER
FS	FLOW SWITCH
FZ	FREEZEZSTAT
	GUARD FOR STAT OR SENSOR
	HUMIDIFIER
H	HUMIDISTAT OR HUMIDITY SENSOR (AS DEFINED ON TC DRAWINGS)
H	HUMIDITY SENSOR, DUCT MOUNTED
LVL	LEVEL SWITCH OR TRANSMITTER
LS	LIMIT SWITCH
	LINE - ELECTRIC
	LINE - INSTRUMENT AIR (PNEUMATIC)
M/S	MOTOR STARTER
OS	OCCUPANCY SENSOR
PT	PRESSURE TRANSMITTER
R	RELAY, ELECTRIC
N	SELECTOR SWITCH, (N=NUMBER OF POSITIONS)
AI	SIGNAL - DDC/BAS, ANALOG INPUT
AO	SIGNAL - DDC/BAS, ANALOG OUTPUT
DI	SIGNAL - DDC/BAS, DIGITAL INPUT
DO	SIGNAL - DDC/BAS, DIGITAL OUTPUT
AI	SIGNAL - PACKAGED EQUIPMENT, ANALOG INPUT
AO	SIGNAL - PACKAGED EQUIPMENT, ANALOG OUTPUT
DI	SIGNAL - PACKAGED EQUIPMENT, DIGITAL INPUT
DO	SIGNAL - PACKAGED EQUIPMENT, DIGITAL OUTPUT
DD	SMOKE DETECTOR - DUCT MOUNTED
S/S	START/STOP RELAY
SPT	STATIC PRESSURE TRANSMITTER
SP	STATIC PRESSURE SENSOR OR PROBE

NOTES:

- SOME SYMBOLS & ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.
- REFER TO MECHANICAL STANDARDS ON DRAWING M0.1 FOR ADDITIONAL SYMBOLS & ABBREVIATIONS THAT MAY BE USED ON TEMPERATURE CONTROL DRAWINGS.

SCHEMATIC SYMBOLS (CONT.)

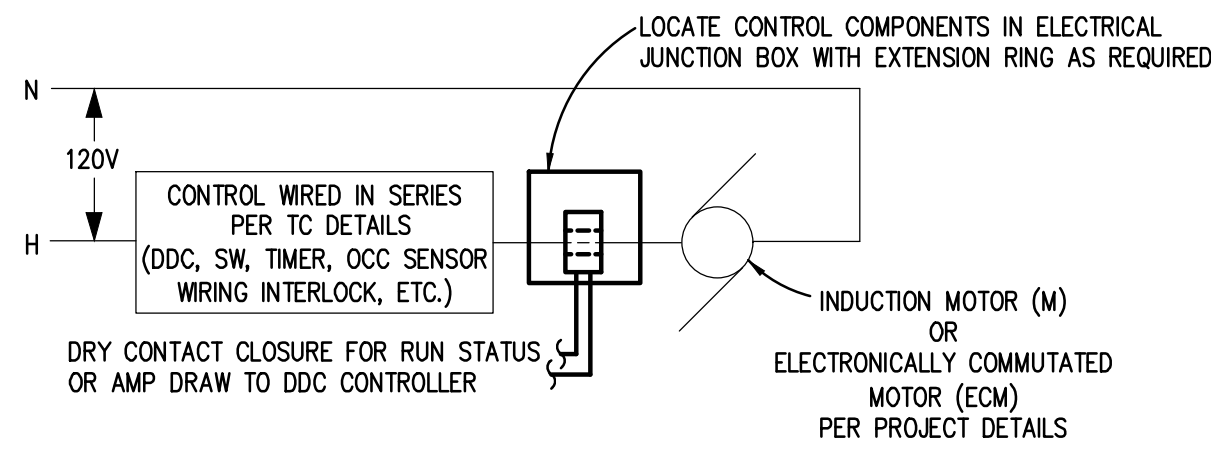
SYMBOL	DESCRIPTION
SW	SWITCH
T	TEMPERATURE SENSOR - RIGID ELEMENT IN WELL
T	TEMPERATURE SENSOR - STRAP ON BULB
T	TEMP SENSOR - DUCT MOUNTED AVG ELEMENT
T	TEMP SENSOR - DUCT MOUNTED RIGID ELEMENT
T	THERMOSTAT OR TEMPERATURE SENSOR (AS DEFINED ON TC DRAWINGS)
TMR	TIMER SWITCH
XF	TRANSFORMER
	VALVE - 2 WAY CONTROL VALVE
	VALVE - 3 WAY CONTROL VALVE
VFC	VARIABLE FREQUENCY CONTROLLER
VS	VELOCITY SENSOR
VB	VIBRATION SWITCH

WIRING SYMBOLS

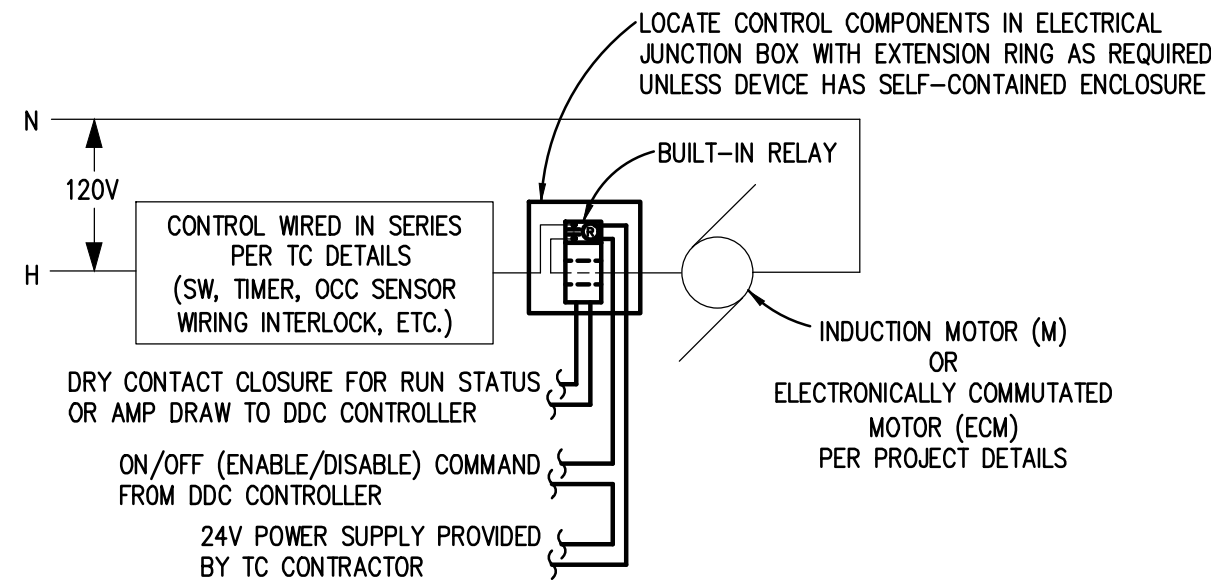
(M/S)	COIL - MOTOR STARTER CONTACTOR
(R)	COIL - RELAY
	CONTACT - INSTANT OPERATING, NO
	CONTACT - INSTANT OPERATING, NC
	GROUND
	MOTOR, SINGLE PHASE
	PUSH BUTTON - MOMENTARY, NC (MUSHROOM HEAD)
	SWITCH - 3 POSITION SELECTOR HAND/OFF/AUTO
	SWITCH - FLOW (AIR, WATER, ETC.), NO
	SWITCH - LIMIT, NO
	SWITCH - PRESSURE & VACUUM, NC
	SWITCH - TEMPERATURE ACTUATED, NO
	THERMAL OVERLOAD, SINGLE PHASE
	THERMAL OVERLOAD CONTACTS-3 PHASE
	TRANSFORMER
	WIRE TERMINATION AT DEVICE
	WIRE TO WIRE TERMINATION
	WIRING NOT CONNECTED

ABBREVIATIONS

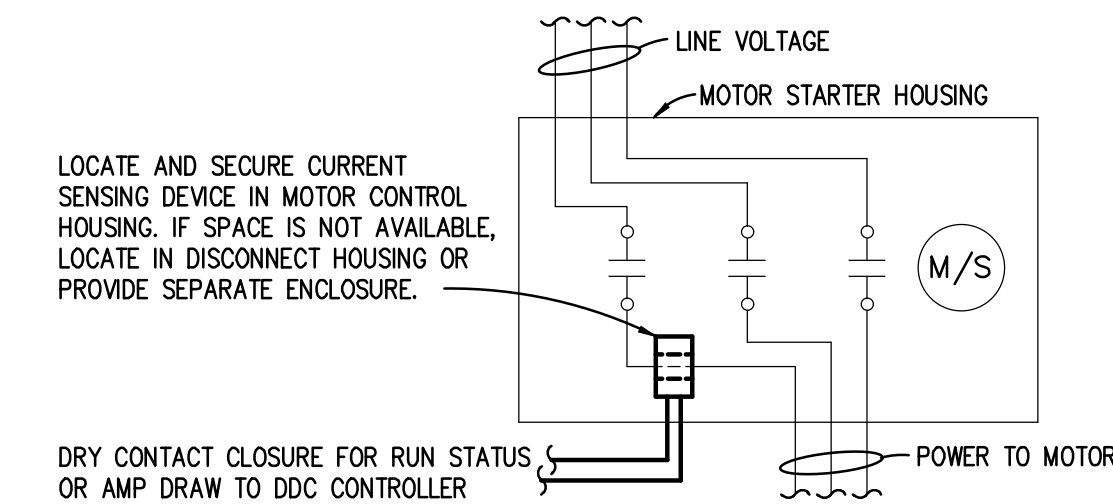
ABBREVIATION	DESCRIPTION
BAS	BUILDING AUTOMATION SYSTEM
DDC	DIRECT DIGITAL CONTROL
TC	TEMPERATURE CONTROLS
NO	NORMALLY OPEN
NC	NORMALLY CLOSED



1-PHASE POWER APPLICATION - DDC MONITORING



1-PHASE POWER APPLICATION - COMBO DDC MONITORING & CONTROL

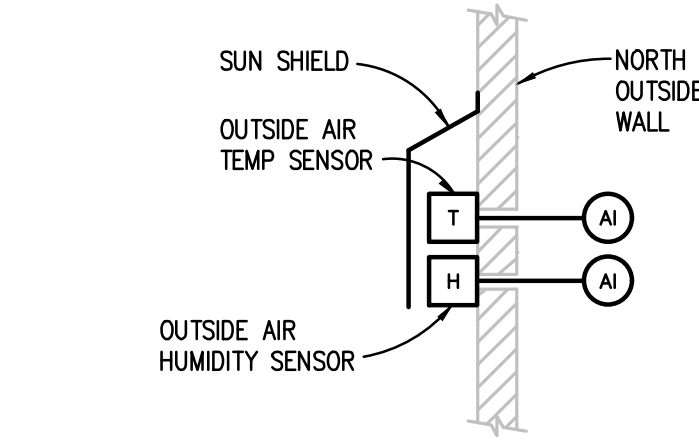


3-PHASE POWER APPLICATION - DDC MONITORING

CURRENT SWITCH INSTALLATION DETAILS

TYPICAL

- NOTES:
- CURRENT SWITCH (CS) OR CURRENT TRANSDUCER (CT) AMP MONITORING AS APPLICABLE PER CONTROL DETAILS SHALL BE INSTALLED FOR DDC SYSTEM STATUS INDICATION OF FAN OR PUMP OPERATION. APPROPRIATE TIME DELAY FOR STATUS FEEDBACK UPON DDC START AND STOP COMMANDS SHALL BE INCLUDED WITH THE DDC LOGIC TO AVOID NUISANCE OPERATIONAL ALARMS.
 - REVIEW EQUIPMENT SHOP DRAWINGS TO DETERMINE POTENTIAL AMPERAGE RANGE OF FAN OR PUMP OPERATION FOR AMPERAGE TRIP SETTING HIGHER THAN TRICKLE/DLE/STANDBY AMPERAGE ASSOCIATED WITH ECM WHEN OFF AND AMPERAGE TRIP SETTING LOWER THAN THE MINIMUM SPEED OPERATION OF FAN OR PUMP AS SET BY THE TAB CONTRACTOR.
 - FOR ECM CURRENT SWITCH APPLICATIONS: PROVIDE CURRENT SWITCH RATED FOR ECM OPERATION WITH AMPERAGE TRIP SETTING HIGHER THAN TRICKLE/DLE/STANDBY AMPERAGE ASSOCIATED WITH ECM WHEN OFF AND AMPERAGE TRIP SETTING LOWER THAN THE MINIMUM SPEED OPERATION OF FAN OR PUMP AS SET BY THE TAB CONTRACTOR.
 - FOR INDUCTION MOTOR CURRENT SWITCH APPLICATIONS (AS APPLICABLE): AMPERAGE TRIP SETTING SHALL BE ADJUSTABLE TO ACCOMMODATE VFC MINIMUM SPEED SETTING, TO DETECT FAN BELT LOSS, OR TO DETECT PUMP COUPLING DETACHMENT.
 - WHEN FAN OR PUMP IS ON AND NOT IN ALARM, DDC SYSTEM SHALL TOTALIZE RUN TIME HOURS FOR OPERATOR INFORMATION FROM BUILDING AUTOMATION SYSTEM OPERATOR INTERFACE.

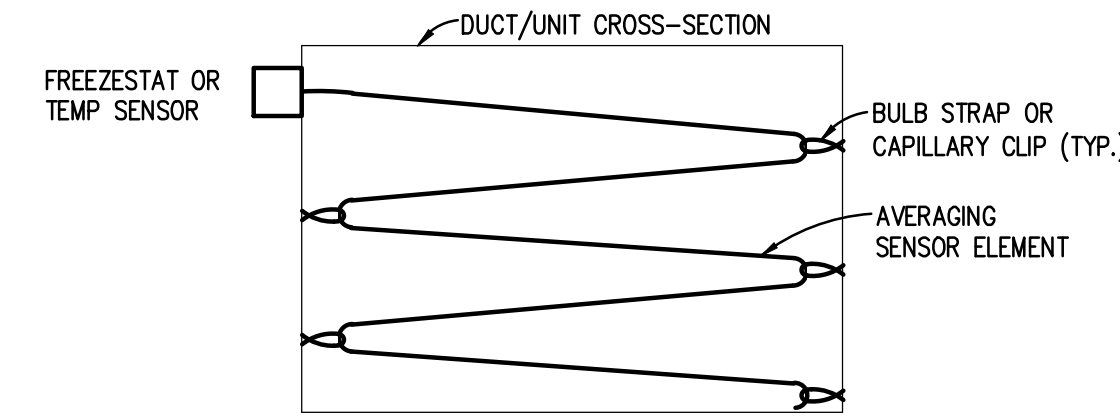


OA SENSOR INSTALLATION DETAIL

NO SCALE

NOTES:

- TC CONTRACTOR HAS THE OPTION OF USING EXISTING OA TEMP AND HUMIDITY SENSORS AS AVAILABLE FOR BUILDING.
- CALCULATE OA ENTHALPY OR DEW POINT TEMPERATURE AS REQUIRED PER SEQUENCE OF OPERATION REQUIREMENTS.
- BROADCAST OUTSIDE AIR TEMPERATURE, HUMIDITY, AND CALCULATED OA ENTHALPY OR DEWPOINT TEMPERATURE, AS REQUIRED, THROUGH BAS COMMUNICATION NETWORK TO CONTROLLERS REQUIRING INFORMATION FOR DDC PROGRAMMING LOGIC.

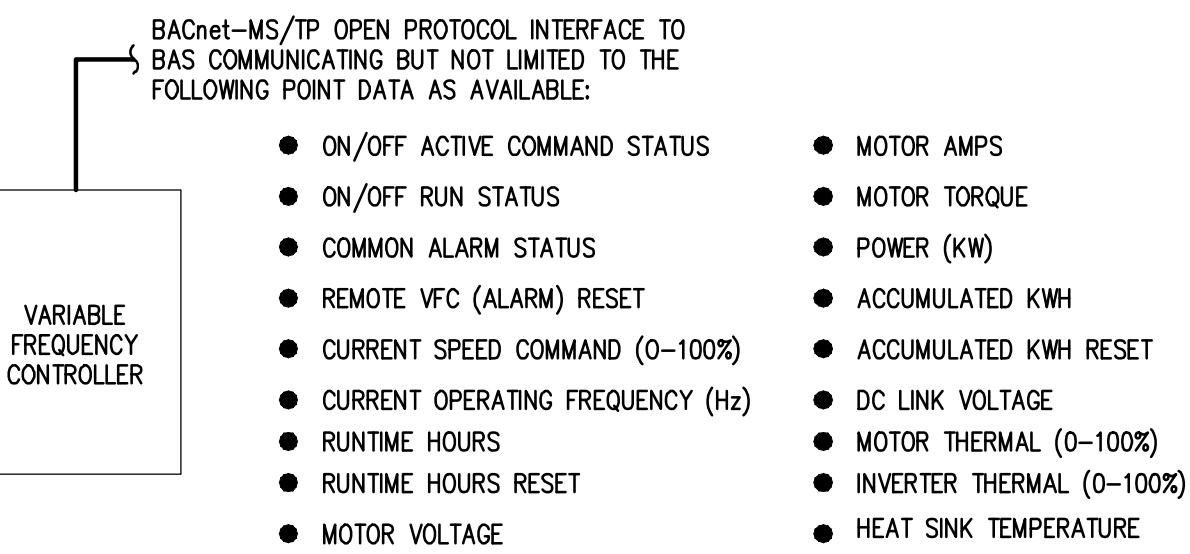


AVERAGING ELEMENT INSTALLATION DETAIL

TYPICAL

NOTES:

- FREEZEZSTAT QUANTITY SHALL BE ONE PER 20 SQ. FT. OF CROSS-SECTIONAL AREA.
- AVERAGING DDC SENSOR LENGTH SHALL BE SUFFICIENT TO COVER AND SENSE THE CROSS-SECTIONAL AREA.
- PROVIDE REQUIRED CAPILLARY STRAP OR CLIPS TO SUPPORT SENSOR TO PREVENT VIBRATION FROM AIR MOVEMENT.
- PROVIDE PROTECTION AT EACH CAPILLARY STRAP OR CLIP TO PREVENT ABRASION TO CAPILLARY.

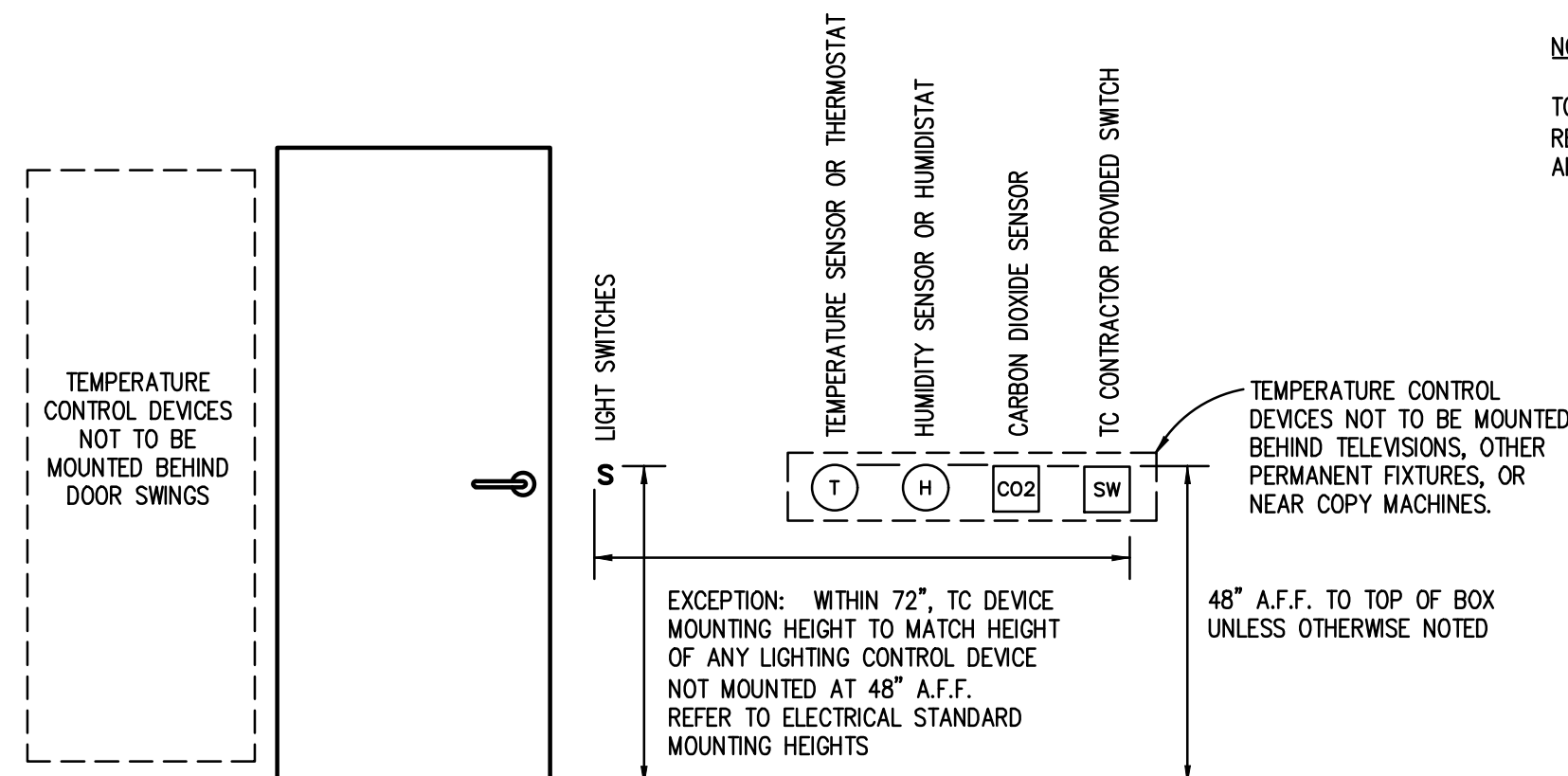


VFC BACnet INTERFACE & MONITORING REQUIREMENTS

TYPICAL FOR NEW FAN & PUMP VFCs

NOTE:

TC CONTRACTOR SHALL COORDINATE BACnet-MS/TP OPEN PROTOCOL WIRE TERMINATION REQUIREMENTS AND POINT INTEGRATION CAPABILITIES WITH VFC SUPPLIER/MANUFACTURER AND PROVIDE APPROPRIATE BAS COMPONENTS FOR COMMUNICATION INTERFACE TO BAS.



TC DEVICE STANDARD MOUNTING HEIGHTS DETAIL

NO SCALE

TC GENERAL NOTES

- THESE GENERAL NOTES SHALL BE APPLICABLE FOR ALL TEMPERATURE CONTROL (TC) DRAWINGS.
- "PROVIDE" IS DEFINED AS FURNISH AND INSTALL.
- TEMPERATURE CONTROLS CONTRACTOR (TC CONTRACTOR) SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.
- FOR TEMPERATURE CONTROL DRAWINGS ONLY: ALL DETAILED INFORMATION IDENTIFIED WITH HEAVY LINE WEIGHT SHALL BE PROVIDED BY TC CONTRACTOR. ALL OTHER INFORMATION IDENTIFIED WITH LIGHT LINE WEIGHT SHALL BE PROVIDED BY OTHER TRADES.
- ALL CONTROL SCHEMATICS AND WIRING DIAGRAMS ARE FOR THE CLARIFICATION OF EQUIPMENT INTERLOCKING FUNCTIONS AND THE INTERFACE OF VARIOUS CONTRACTORS' WORK AND SHALL NOT BE MISTAKEN AS SHOP DRAWINGS FOR ACTUAL INSTALLATION.
- TC CONTRACTOR SHALL PROVIDE DDC CONTROLLERS AS REQUIRED TO MEET INTENT OF DESIGN DOCUMENTS. REFER TO THE PLANS FOR THE DDC FUNCTIONS THAT APPLY TO EACH MECHANICAL SYSTEM.
- ALL TC PROVIDED COMPONENTS AND ALL TC CONTRACTOR INSTALLED WIRING SHALL BE LABELED PER SPECIFICATIONS.
- ALL WIRING AND SYSTEM CONTROL VOLTAGES SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATION AND THE ELECTRICAL SPECIFICATIONS.
- VARIABLE FREQUENCY CONTROLLER, FAN AND PUMP MOTOR STARTERS, STARTER WIRING, CONTROL VOLTAGE TRANSFORMERS AND ASSOCIATED POWER WIRING SHALL BE PROVIDED BY OTHER TRADES.
- DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED AND WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. ELECTRICAL SHALL PROVIDE FIRE ALARM SYSTEM CONTROL MODULES FOR REQUIRED SAFETIES TO MOTOR STARTERS OR VFCs AS INDICATED. CONTROL MODULES SHALL BE LOCATED NEAR RESPECTIVE MOTOR STARTERS OR VFCs. TC CONTRACTOR SHALL PROVIDE INTERLOCK WIRING FROM CONTROL MODULES TO MOTOR STARTERS OR VFCs.
- ALL DDC AND CONTROL INTERLOCK WIRING SHALL BE BY TC CONTRACTOR UNLESS OTHERWISE NOTED. TC CONTRACTOR SHALL COORDINATE WITH VFC AND MOTOR STARTER SUPPLIERS TO DETERMINE EXACT WIRING REQUIREMENTS AND TERMINATION POINTS.
- ALL DDC AND CONTROL INTERLOCK WIRING BETWEEN COMPONENTS SHALL BE INSTALLED WITHOUT INTERMEDIATE STOPS. WIRE SPLICING AT INTERMEDIATE TERMINAL STRIPS IS NOT ACCEPTABLE.
- ALL ELECTRICAL WIRING AND RACEWAY SYSTEMS SHALL COMPLY WITH ELECTRICAL SPECIFICATION REQUIREMENTS. WHERE RACEWAY IS REQUIRED, TWO SEPARATE ELECTRICAL RACEWAY SYSTEMS SHALL BE PROVIDED: ONE FOR 120V WIRING AND THE OTHER FOR 24V WIRING.
- TC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER SUPPLIES REQUIRED FOR TC SYSTEM UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL PANEL SCHEDULES FOR SPARE CIRCUITS OR CIRCUITS DEDICATED TO TEMPERATURE CONTROLS. COORDINATE CIRCUIT USE WITH ELECTRICAL CONTRACTOR.
- TC CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL FIELD MOUNTED COMPONENTS.
- REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES. PROVIDE WALL MOUNTED DEVICE GUARDS WHERE INDICATED ON TC DETAILS OR AT SPECIFIC LOCATIONS INDICATED ON MECHANICAL FLOOR PLANS.
- TC CONTRACTOR SHALL PROVIDE AUXILIARY PANELS FOR REQUIRED PANEL MOUNTED EQUIPMENT SUCH AS RELAYS, TRANSDUCERS, CONTROL TRANSFORMERS, ETC. AUXILIARY PANELS SHALL BE LOCATED NEXT TO ASSOCIATED DDC PANEL. DEPENDING ON WIRE QUANTITY OR COMPLEXITY, PROVIDE CONDUITS BETWEEN PANELS OR WIRING THROUGH WITH CONDUIT STUBS ABOVE ALL ASSOCIATED PANELS.
- REMOTELY MOUNTED FIELD DEVICES SUCH AS RELAYS, CONTROL TRANSFORMERS, ETC., SHALL BE HOUSED IN AN ENCLOSURE PROVIDED BY THE TC CONTRACTOR.
- CONTROL TRANSFORMERS WHEN REQUIRED SHALL BE SIZED FOR 150% OF ACTUAL LOAD.
- FREEZEZSTATS SHALL BE MOUNTED ON UPSTREAM FACE OF COOLING COILS. FREEZEZSTAT QUANTITY SHALL BE ONE PER 20 SQ. FT. OF CROSS SECTIONAL AREA.
- CURRENT SWITCHES USED FOR OPERATIONAL STATUS SHALL HAVE CURRENT THRESHOLD SETPOINT ADJUSTED TO INDICATE BELT OR DRIVE FAILURE.
- ALL CONTROL VALVES, CONTROL DAMPERS AND ASSOCIATED CONTROL ACTUATORS IDENTIFIED ON TC DRAWINGS SHALL BE FURNISHED BY TC CONTRACTOR UNLESS OTHERWISE NOTED. DAMPER SIZE AND LOCATIONS ARE INDICATED ON MECHANICAL FLOOR PLAN DRAWINGS.
- ALL CONTROL VALVES AND DAMPERS FURNISHED BY THE TC CONTRACTOR SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. ALL PIPE PENETRATIONS AND BASIC FITTINGS REQUIRED FOR SENSOR INSTALLATIONS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
- DAMPER ACTUATORS SHALL BE INSTALLED BY TC CONTRACTOR WHEN FURNISHED BY TC CONTRACTOR.
- ALL INSTRUMENTATION TUBING REQUIRED FOR DPS AND DPT COMPONENT INSTALLATIONS SHALL BE PROVIDED BY TC CONTRACTOR.
- TC CONTRACTOR SHALL FIELD MOUNT ALL REQUIRED "SHIPPED LOOSE" PACKAGED CONTROL COMPONENTS FURNISHED BY EQUIPMENT SUPPLIERS WHERE INDICATED. ALL REQUIRED 24V AND 120V FIELD WIRING SHALL BE PROVIDED BY TC CONTRACTOR UNLESS NOTED OTHERWISE. TC CONTRACTOR SHALL COORDINATE SPECIFIC SYSTEM WIRING REQUIREMENTS WITH PACKAGED EQUIPMENT SUPPLIERS.

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TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES

Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel 248-979-5666
Fax 248-979-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

EHRESMAN ARCHITECTS
ehresmanarchitects.com
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

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SEQUENCE OF OPERATION

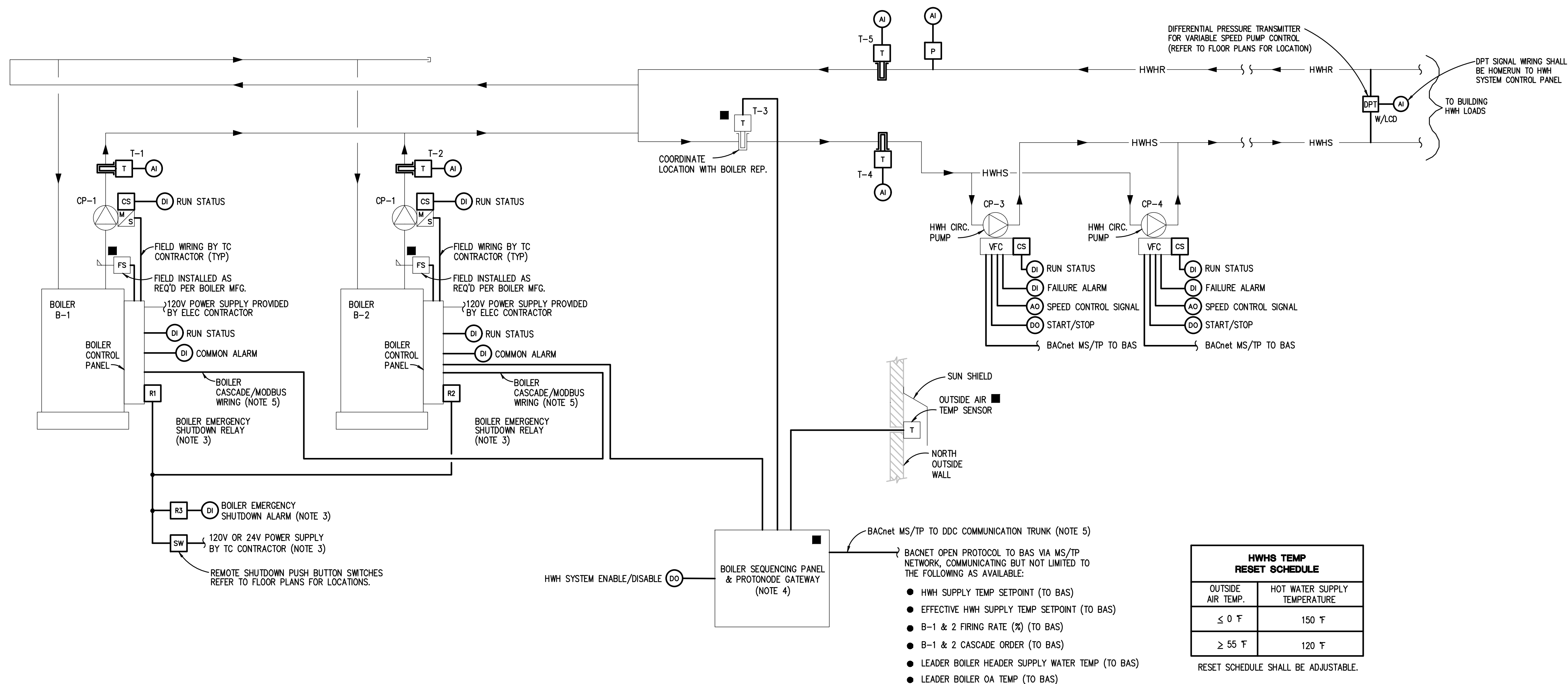
HOT WATER HEATING SYSTEM:

NOTE: ALL SETPOINTS, DEADBANDS, DELAY TIMERS, ETC., INCLUDING TIME-OF-DAY HOURS OF OPERATION DESCRIBED IN SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS. APPROPRIATE DEADBANDS SHALL BE USED TO PREVENT SHORT CYCLING SITUATIONS. ALL MOTOR CONTROL SWITCHES SHALL BE IN THE "AUTO" POSITION. ALL CONTROL LOOPS SHALL BE ENABLED AND DISABLED BASED ON SYSTEM STATUS TO PREVENT LOOP WINDUP.

1. HWH SYSTEM SHALL BE ACTIVATED FOR CONTINUOUS OPERATION DURING SCHEDULED BUILDING OCCUPANCY OR WHEN OUTDOOR AIR TEMPERATURE IS BELOW 50F.
2. SECONDARY HWH CIRC PUMPS CP-3 & CP-4 SHALL HAVE START/STOP CAPABILITY FROM THE DDC SYSTEM. ONE OF THE TWO PUMPS SHALL BE ACTIVATED AS "LEAD" BY DDC TO OPERATE CONTINUOUSLY. THE OTHER WILL SERVE AS "STANDBY".
3. DDC SHALL ALTERNATE "LEAD" PUMP OPERATION BASED ON WEEKLY BASIS.
4. DDC SHALL MONITOR OPERATING STATUS OF EACH SECONDARY PUMP. UPON "LEAD" PUMP FAILURE, DDC SHALL ACTIVATE FAILURE ALARM AND AUTOMATICALLY START THE "STANDBY" PUMP. DDC SHALL TOTALIZE PUMP RUN TIME HOURS OF OPERATION FOR BAS DISPLAY.
5. VFC COMMON FAILURE ALARM FOR EACH CIRC PUMP SHALL BE MONITORED BY DDC THRU AVAILABLE CONTACTS AT RESPECTIVE PUMP VFC. ADDITIONAL PUMP VFC MONITORING FOR DIAGNOSTICS SHALL BE AVAILABLE THRU BAS OPEN PROTOCOL COMMUNICATION INTERFACE.
6. DDC SHALL MODULATE VFC OF ACTIVE SECONDARY HWH PUMP TO MAINTAIN HWH LOOP DIFFERENTIAL PRESSURE INITIAL SETPOINT OF 20 FT OF HEAD (FINAL SETPOINT TO BE DETERMINED AT SYSTEM WATER BALANCING).
7. REMOTE CONTROL SHALL BE THRU BOILER SEQUENCING PANEL FURNISHED BY BOILER SUPPLIER. DDC SYSTEM SHALL ENABLE BOILER SEQUENCING PANEL CONTROL WHEN SECONDARY HWH CIRC. PUMP CP-3 OR CP-4 IS ACTIVATED. BOILER SEQUENCING PANEL SHALL CONTROL BOILERS AS REQUIRED TO MAINTAIN HWH SUPPLY TEMP (T-3) SETPOINT BASED ON OUTSIDE AIR RESET SCHEDULE.
8. THE BOILER SEQUENCING PANEL SHALL INCLUDE OPERATOR SELECTABLE BOILER LEAD/LAG OPERATION OR FIRST ON/FIRST OFF OPERATION.
9. WHENEVER A BOILER IS ACTIVATED, ITS RESPECTIVE PRIMARY CIRC. PUMP SHALL BE ACTIVATED BY FACTORY BOILER CONTROLLER TIME DELAY CONTROL RELAY. BOILER SHALL NOT FIRE UNTIL FLOW IS PROVEN BY FLOW SWITCH.
10. WHENEVER A BOILER IS DEACTIVATED, ITS RESPECTIVE BOILER CIRC. PUMP SHALL CONTINUE TO RUN BASED ON THE BOILER CONTROLLER TIME DELAY CONTROL RELAY TO DISSIPATE HEAT FROM THE DEACTIVATED BOILER.
11. DDC SHALL MONITOR OPERATING STATUS OF BOILER CIRC PUMPS CP-1 AND CP-2. DDC SHALL TOTALIZE PUMP RUN TIME HOURS OF OPERATION FOR BAS DISPLAY.
12. EACH BOILER LOCAL CONTROL PANEL SHALL INCLUDE AN OPERATOR LIMIT WITH SETPOINT OF 190F (TO BE USED WHEN BOILER LOCAL/REMOTE SWITCH IS IN LOCAL POSITION) AND A MANUAL-RESET HI-LIMIT SAFETY WITH SETPOINT OF 200F.
13. DDC SHALL MONITOR BOILER RUN STATUS AND COMMON ALARM FOR EACH BOILER THROUGH DRY CONTACTS AVAILABLE IN RESPECTIVE BOILER CONTROL PANEL.
14. DDC SHALL MONITOR ALL PRIMARY AND SECONDARY WATER TEMPERATURES FOR DIAGNOSTIC PURPOSES.
15. WHEN HWH SYSTEM IS ACTIVATED, DDC SHALL MONITOR SYSTEM PRESSURE AND ACTIVATE AN ALARM IF PRESSURE DROPS BELOW ITS LOW LIMIT SETPOINT (POSSIBLY INDICATING A SYSTEM WATER LEAK).
16. DDC SHALL MONITOR ALL BOILERS THROUGH BACnet MS/TP COMMUNICATION PROTONODE PROVIDED BY BOILER MFR. ALLOW FOR 20 POINTS OF INFORMATION DISPLAY AT BAS.

REMOTE BOILER EMERGENCY SHUTDOWN:

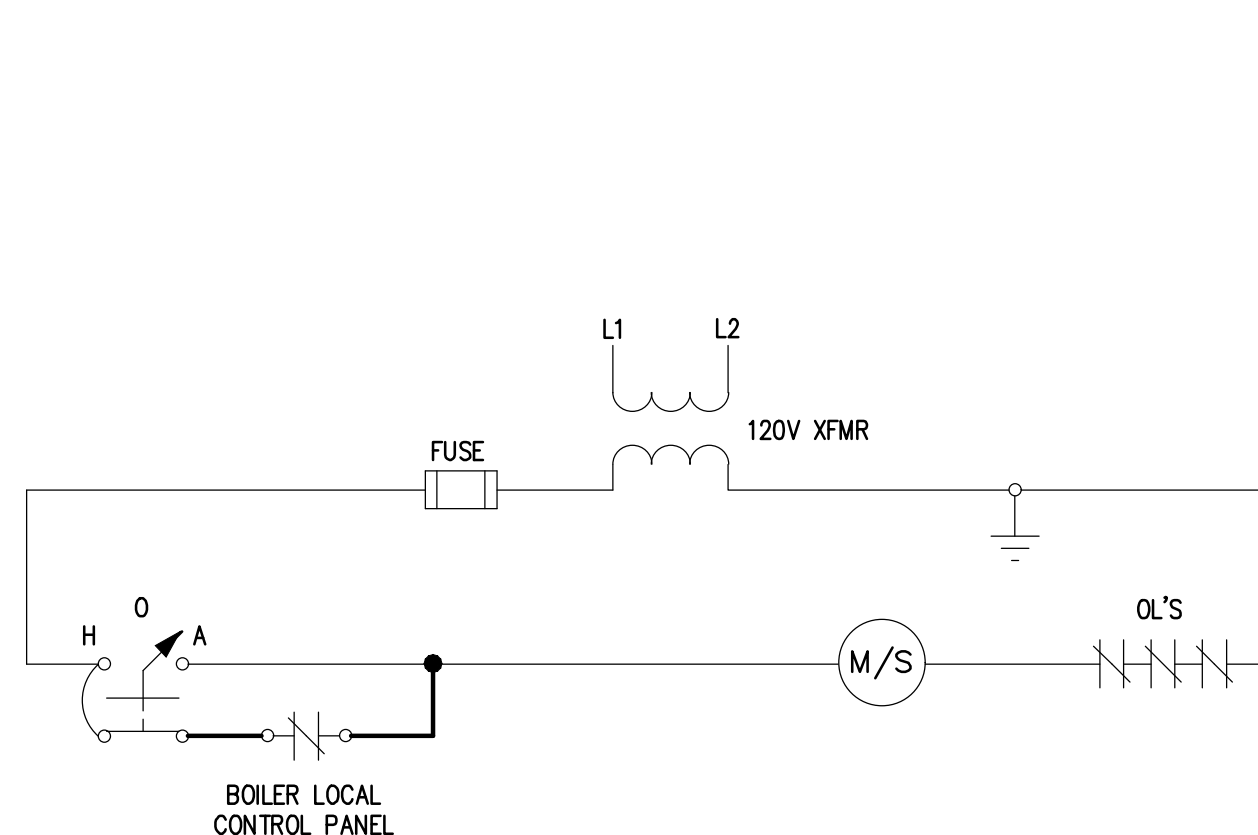
17. UNDER NORMAL OPERATING CONDITIONS, THE PUSHBUTTON CIRCUIT ENERGIZES THE RELAY'S WHICH CLOSE THE NORMALLY OPEN (NO) CONTACTS AND OPEN THE NORMALLY CLOSED (NC) CONTACTS.
18. WHEN PUSHBUTTON IS ACTIVATED, THE RELAY NO CONTACTS SHALL OPEN AND INTERRUPT ALL BOILERS' CONTROL CIRCUITS.
19. WHEN PUSHBUTTON SWITCH IS KEY-RELEASED, THE RELAYS RE-ENERGIZE AND THE CONTACTS RE-ENERGIZE THE BOILERS' CONTROL CIRCUITS.
20. WHEN PUSHBUTTON IS ACTIVATED, THE RELAY NC CONTACT SHALL CLOSE AND DDC SHALL ACTIVATE AN EMERGENCY ALARM AT THE BAS.



HOT WATER HEATING SYSTEM CONTROL

NOTES:

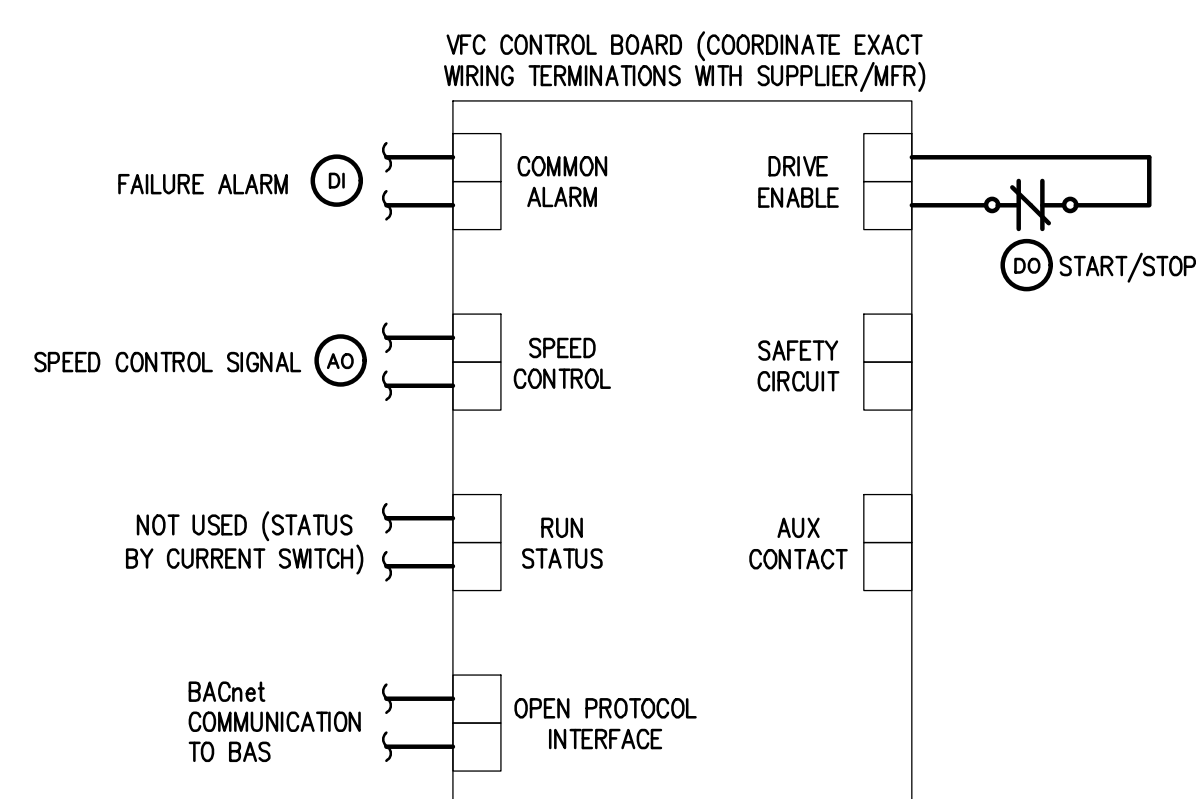
1. ■ INDICATED COMPONENT FURNISHED BY BOILER SUPPLIER AND INSTALLED BY TC CONTRACTOR.
2. COORDINATE ALL WIRING AND TERMINATIONS WITH BOILER SUPPLIER.
3. TC CONTRACTOR SHALL PROVIDE BOILER EMERGENCY SHUTDOWN COMPONENTS AND WIRING. REFER TO REMOTE BOILER SHUTDOWN WIRING DIAGRAM.
4. BOILER SEQUENCING PANEL COULD BE PROVIDED AS AN INTEGRAL FEATURE TO BOILER. VERIFY BOILER CONTROL WIRING WITH BOILER SUPPLIER.
5. TC CONTRACTOR SHALL PROVIDE BOILER MODBUS COMMUNICATION WIRING TO EACH BOILER AND BAS OPEN PROTOCOL COMMUNICATION WIRING TO BAS FOR BOILER SEQUENCING CONTROL AND MONITORING.



BOILER CP-1 & 2 M/S WIRING

NOTES:

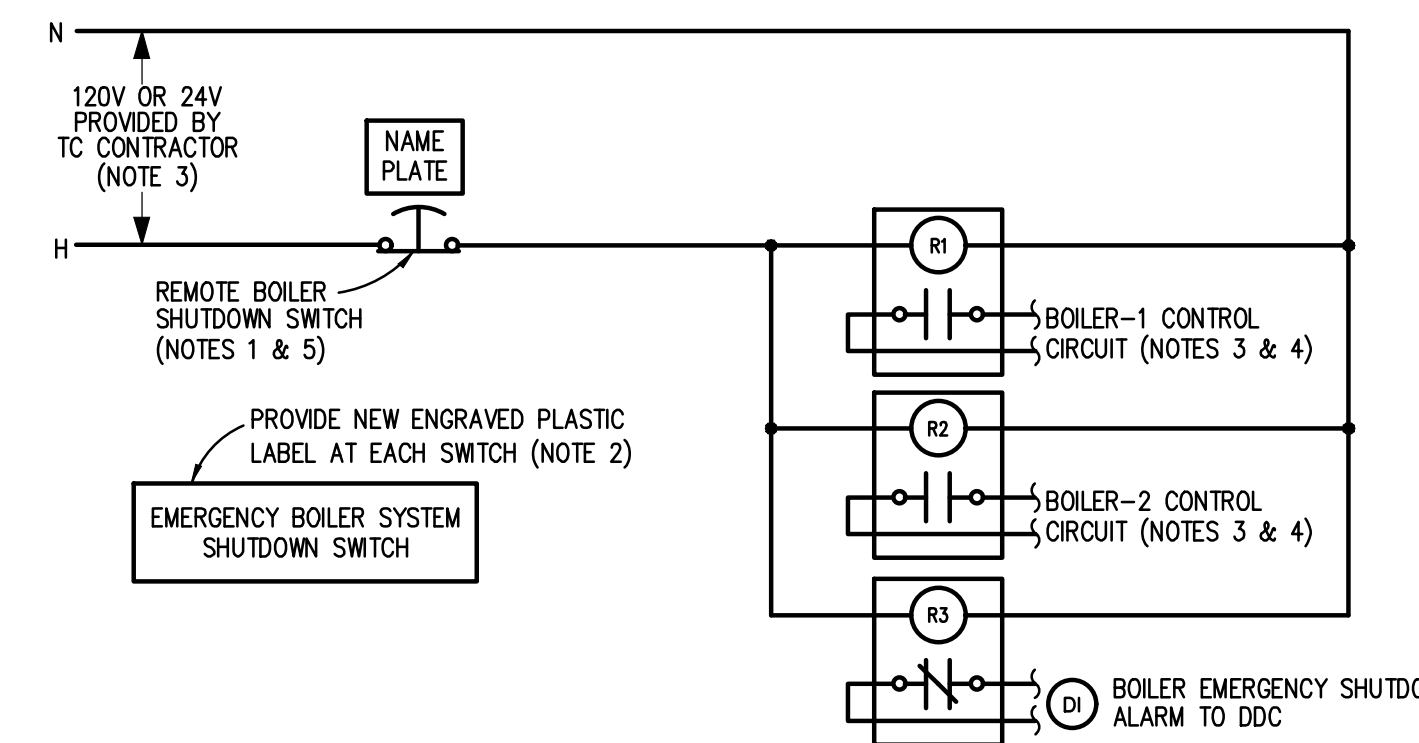
1. PROVIDE CURRENT SWITCHES ON PUMP MOTOR LEADS.



HWH PUMPS CP-3 & 4 VFC WIRING

NOTES:

1. WIRING DETAIL IDENTIFIES INTENT AND DOES NOT INDICATE ACTUAL WIRING REQUIREMENTS. CONSULT WITH VFC SUPPLIER FOR THE ACTUAL WIRING REQUIREMENTS.
2. PROVIDE VFC MANUFACTURER'S WIRING DESIGNATIONS ON SUBMITTAL DRAWINGS.
3. PROVIDE CURRENT SWITCHES ON PUMP MOTOR LEADS.



REMOTE BOILER EMERGENCY SHUTDOWN WIRING

NOTES:

1. LOCATE AN EMERGENCY SHUTDOWN SWITCH AT EACH ENTRANCE JUST INSIDE BOILER ROOM. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF ROOM ENTRANCES. COORDINATE SWITCH LOCATIONS WITH ALL OTHER TRADES.
2. TC CONTRACTOR SHALL PROVIDE SIGN (NAME PLATE) TO BE PLACED DIRECTLY ABOVE OR BELOW EACH PUSHBUTTON SWITCH THAT READS: "EMERGENCY BOILER SYSTEM SHUTDOWN".
3. TC CONTRACTOR SHALL SUPPLY POWER TO CONTROL RELAYS. REFER TO ELECTRICAL PANEL SCHEDULES AND COORDINATE WITH ELECTRICAL CONTRACTOR AS NECESSARY. COORDINATE WITH THE ELECTRICAL CONTRACTOR TO PROVIDE A LOCKOUT AT THE CIRCUIT BREAKER.
4. TC CONTRACTOR SHALL MOUNT BOILER'S SHUTDOWN CONTROL RELAYS AT RESPECTIVE BOILER CONTROL PANELS. TC CONTRACTOR SHALL WIRE BOILERS' CONTROL CIRCUITS (POWER FROM SECONDARY SIDE OF CONTROL TRANSFORMERS) THRU NORMALLY OPEN RELAY CONTACTS. TC CONTRACTOR SHALL COORDINATE EXACT WIRING AND TERMINATION REQUIREMENTS WITH BOILER MANUFACTURER.
5. TC CONTRACTOR SHALL PROVIDE PUSHBUTTON SWITCHES [PUSH TO LATCH - TURN KEY TO RELEASE] WITH MUSHROOM HEAD OPERATOR AND NORMALLY CLOSED (NC) CONTACTS. PROVIDE WITH PROPER ENCLOSURE.

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TEMPERATURE CONTROLS

Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
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ehresmanarchitects.com

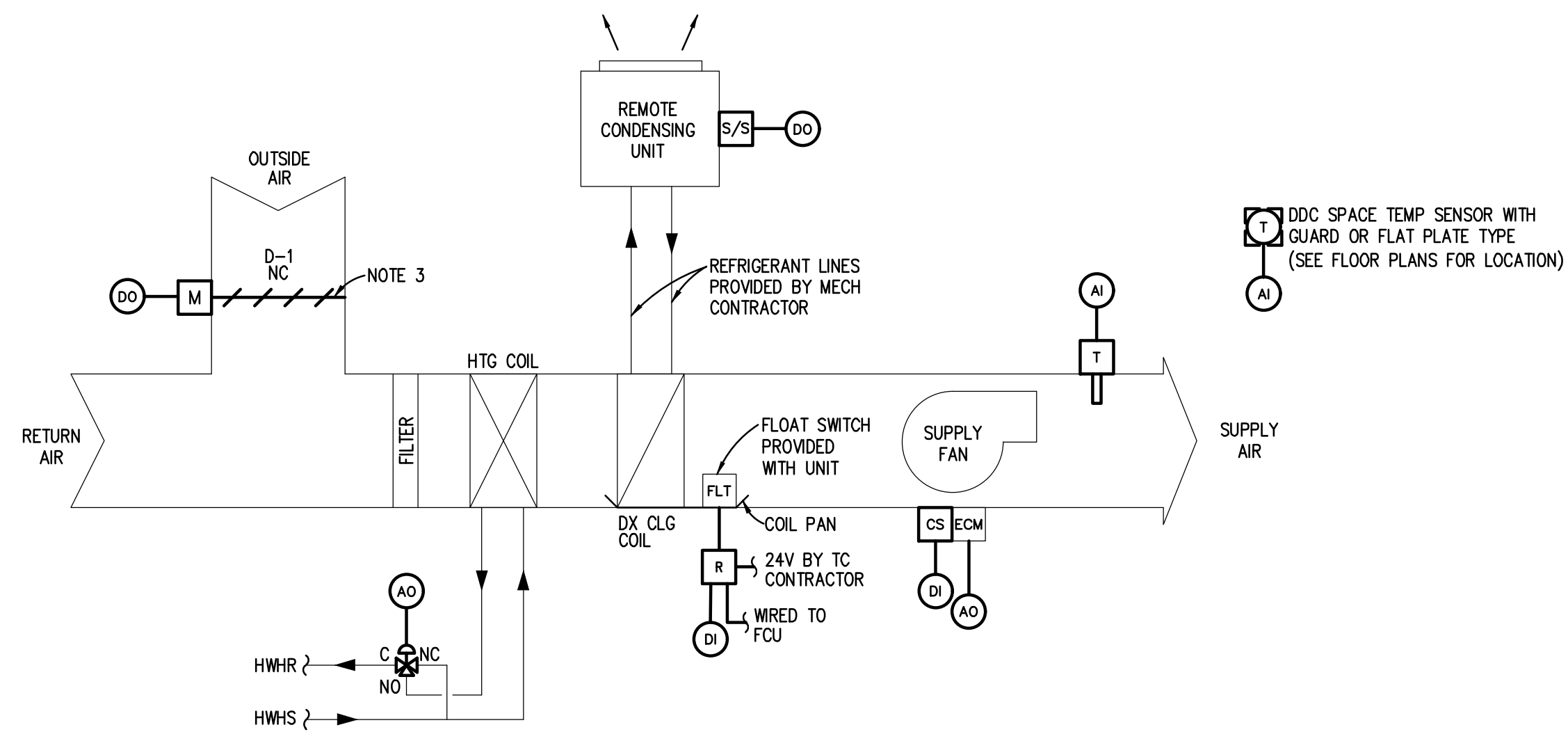
Crestwood School District
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Administration Relocation and Addition

Project No. 3221

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FAN COIL UNIT (FCU-1) CONTROL

SERVES HALLWAY

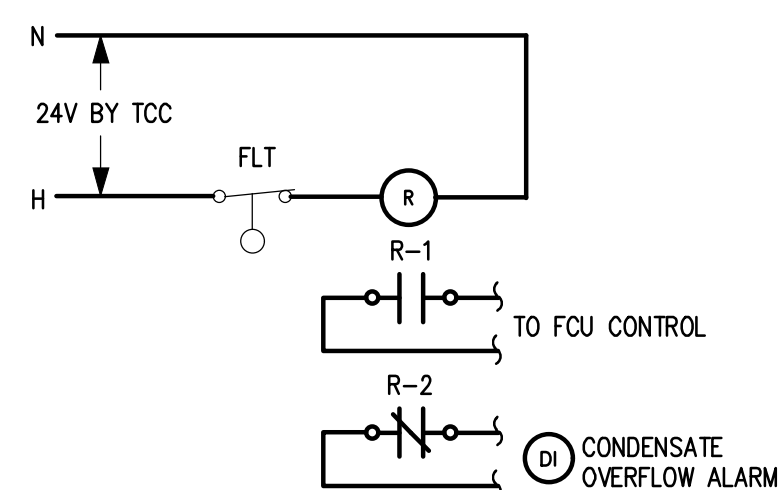
NOTES:

- REFER TO FLOOR PLANS FOR LOCATIONS OF UNIT.
- TC CONTRACTOR SHALL FURNISH 3-WAY CONTROL VALVE FOR HEATING ELEMENT PER MECHANICAL SCHEDULES FOR INSTALLATION BY MECHANICAL CONTRACTOR.
- TC CONTRACTOR SHALL FURNISH MOTORIZED DAMPER FOR INSTALLATION BY SHEETMETAL CONTRACTOR. REFER TO FLOOR PLANS FOR DAMPER SIZES AND VERIFY WITH SHEETMETAL CONTRACTOR.

SEQUENCE OF OPERATION:

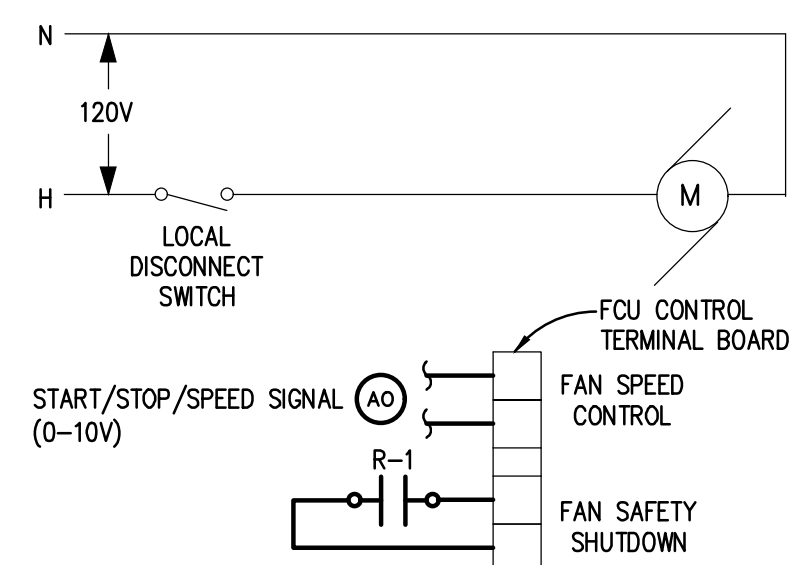
NOTE: ALL SETPOINTS DESCRIBED IN SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS (CREATE REQUIRED VIRTUAL POINTS). APPROPRIATE DEADBANDS SHALL BE USED TO PREVENT SHORT CYCLING SITUATIONS. ALL MOTOR CONTROL SWITCHES SHALL BE IN "AUTO" POSITION. ALL CONTROL LOOPS SHALL BE ENABLED AND DISABLED BASED ON SYSTEM STATUS TO PREVENT LOOP WINDUP.

- SUPPLY FAN SHALL HAVE START/STOP CAPABILITY FROM THE DDC SYSTEM. UNIT SHALL OPERATE BASED ON TIME SCHEDULED OCCUPIED MODE (COMPENSATED BY OPTIMUM START PROGRAM AND UNOCCUPIED CYCLE MODE).
- FOR HEATING OCCUPIED MODE, FAN OPERATION SHALL BE CONTINUOUS, OUTSIDE AIR DAMPER SHALL BE COMMANDED OPEN AND FCU SHALL BE CONTROLLED TO MAINTAIN SPACE TEMP SETPOINT OF 70F.
- FOR COOLING OCCUPIED MODE, FAN OPERATION SHALL BE CONTINUOUS, OUTSIDE AIR DAMPER SHALL COMMANDED OPEN, AND FCU SHALL BE CONTROLLED TO MAINTAIN SPACE TEMP SETPOINT OF 74F.
- FOR HEATING UNOCCUPIED MODE, FCU SHALL CYCLE ON & OFF, OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND FCU WILL BE CONTROLLED TO MAINTAIN A SETBACK SPACE TEMP SETPOINT OF 62F.
- FOR COOLING UNOCCUPIED MODE, FCU SHALL REMAIN OFF AND OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.
- SUPPLY FAN STATUS SHALL BE MONITORED BY DDC THRU CURRENT SWITCH. ABNORMAL STATUS CONDITION FOR SF SHALL ACTIVATE ALARM.
- FCU SF ECM SPEED SHALL BE MAINTAINED BY DDC AT A CONSTANT DESIGN AIRFLOW SETTING (REFER TO MECHANICAL SCHEDULE AIRFLOWS AND COORDINATE SETTING WITH AIR BALANCE CONTRACTOR DURING AIR BALANCING).
- WHEN SPACE TEMP IS BELOW HEATING SETPOINT, DDC SHALL MODULATE HEATING COIL CONTROL VALVE TO MAINTAIN DISCHARGE AIR TEMP SETPOINT THAT SHALL BE RESET BASED ON DEVIATION FROM SPACE TEMP SETPOINT. DISCHARGE AIR TEMP SETPOINT RANGE SHALL BE 65F TO 90F.
- WHEN SPACE TEMP IS ABOVE COOLING SETPOINT, DDC SHALL CYCLE DX COOLING TO MAINTAIN SPACE TEMP SETPOINT.
- DISCHARGE AIR LOW TEMP LIMIT OF 45F SHALL PROVIDE OVERRIDE OF HEATING COIL CONTROL VALVE TO FULL OPEN POSITION, CLOSE OA DAMPER AND ALARM BAS OF LOW TEMP CONDITION IF DISCHARGE AIR TEMP DOES NOT ACHIEVE SETPOINT WITHIN 600 SEC. (ADJ.).
- FACTORY PROVIDED CONDENSATE OVERFLOW FLOAT SWITCH, MOUNTED IN COOLING COIL DRAIN PAN, SHALL BE INTERLOCKED TO SF MOTOR STARTER AND MONITORED BY DDC. SHOULD WATER LEVEL REACH HIGH LEVEL SETPOINT, FCU SHALL BE DEACTIVATED AND ALARM INITIATED AT DDC SYSTEM.
- WHEN OA TEMP IS BELOW 40F AND FCU IS DEACTIVATED, HWH COIL CONTROL VALVE SHALL BE MODULATED BY DDC TO MAINTAIN LOW LIMIT FCU CABINET TEMP OF 50F.



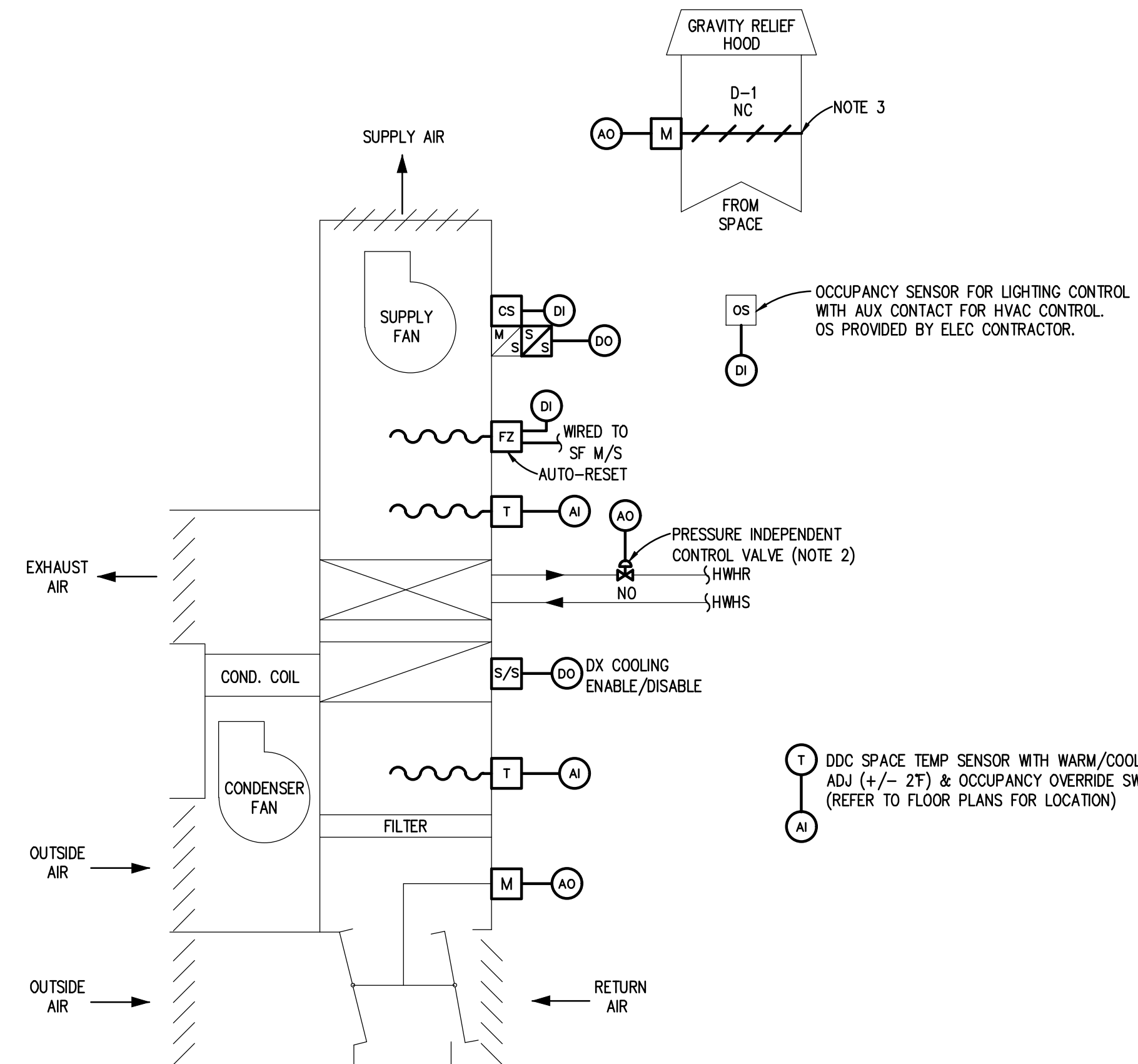
FCU-1 CONDENSATE OVERFLOW FLOW FLOAT SWITCH WIRING

CONTROL RELAY AND WRING PROVIDED BY TC CONTRACTOR



FCU-1 M/S WIRING

WIRING DETAIL IDENTIFIES INTENT AND DOES NOT INDICATE ACTUAL WIRING REQUIREMENTS. CONSULT FCU SUPPLIER FOR ACTUAL WIRING AND TERMINATIONS REQUIREMENTS.



VERTICAL FLOOR MOUNTED UNIT VENTILATOR (UV) CONTROL

TYPICAL

NOTES:

- REFER TO FLOOR PLANS FOR QUANTITY AND LOCATIONS OF UNITS.
- TC CONTRACTOR SHALL FURNISH 2-WAY PRESSURE INDEPENDENT CONTROL VALVES FOR HEATING ELEMENTS PER MECHANICAL SCHEDULES FOR INSTALLATION BY MECHANICAL CONTRACTOR.
- TC CONTRACTOR SHALL FURNISH MOTORIZED DAMPER FOR INSTALLATION BY SHEETMETAL CONTRACTOR. REFER TO FLOOR PLANS FOR DAMPER SIZES AND VERIFY WITH SHEETMETAL CONTRACTOR.

SEQUENCE OF OPERATION:

NOTE: ALL SETPOINTS DESCRIBED IN SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS (CREATE REQUIRED VIRTUAL POINTS). APPROPRIATE DEADBANDS SHALL BE USED TO PREVENT SHORT CYCLING SITUATIONS. ALL MOTOR CONTROL SWITCHES SHALL BE IN "AUTO" POSITION. ALL CONTROL LOOPS SHALL BE ENABLED AND DISABLED BASED ON SYSTEM STATUS TO PREVENT LOOP WINDUP.

- SUPPLY FAN SHALL HAVE START/STOP CAPABILITY FROM THE DDC SYSTEM. UNIT SHALL OPERATE BASED ON TIME SCHEDULED WARM-UP AND OCCUPIED MODES, TEMPORARY OCCUPIED MODE (SET FOR 2 HRS ENABLED FROM OVERRIDE SWITCH ON TEMPERATURE SENSOR), STANDBY MODE AND UNOCCUPIED CYCLE MODE.
- ONE HOUR (ADJUSTABLE) PRE-OCCUPANCY PURGE MODE SHALL BE UTILIZED WITH OCCUPIED MODE TIME SCHEDULE WHEN ZONE SPACE TEMPERATURE IS GREATER THAN OCCUPIED COOLING SETPOINTS AND OA TEMP IS LESS THAN SPACE TEMP AND OUTSIDE AIR HUMIDITY IS BELOW ECONOMIZER LOCKOUT SETPOINT OF 60%RH; DAMPERS SHALL BE MODULATED OPEN TO FULL OA POSITION.
- FOR HEATING OCCUPIED MODE, UV SHALL BE CONTROLLED TO MAINTAIN SPACE TEMP SETPOINT OF 70F.
- FOR COOLING OCCUPIED MODE, UV SHALL BE CONTROLLED TO MAINTAIN SPACE TEMP SETPOINT OF 75F.
- FOR HEATING UNOCCUPIED MODE, UV SHALL CYCLE ON & OFF TO MAINTAIN A SETBACK SPACE TEMP SETPOINT OF 62F.
- FOR COOLING UNOCCUPIED MODE, UV SHALL REMAIN OFF.
- WHEN ZONE IS UNOCCUPIED DURING SCHEDULED OCCUPIED MODE AS DETERMINED BY MONITORING THE LIGHTING OCCUPANCY SENSOR AUX CONTACTS, DDC SHALL OPERATE UV IN STANDBY MODE. FOR STANDBY MODE, THE HEATING STANDBY MODE SPACE TEMP SETPOINT SHALL BE SETBACK BY 2F AND THE COOLING STANDBY MODE SPACE TEMP SETPOINT SHALL BE SETUP BY 2F.
- SUPPLY FAN STATUS SHALL BE MONITORED BY DDC THRU CURRENT SWITCH. ABNORMAL STATUS CONDITION FOR SF SHALL ACTIVATE ALARM.
- WHEN UV IS ACTIVATED DURING OCCUPIED MODE, MIXED AIR DAMPER SHALL BE ALLOWED TO MODULATE AS DESCRIBED. WHEN UV IS DEACTIVATED OR OPERATING IN UNOCCUPIED CYCLE MODE, STANDBY MODE OR MORNING WARM-UP MODE, MIXED AIR DAMPER SHALL REMAIN CLOSED (OUTSIDE AIR DAMPER FULLY CLOSED AND RETURN AIR DAMPER FULLY OPEN).

- SPACE RELIEF AIR DAMPER SHALL BE MODULATED IN SEQUENCE WITH OA/RA DAMPER CONTROL.
- MIXED AIR LOW TEMP LIMIT OF 45F SHALL PROVIDE OVERRIDE CONTROL OF MIXED AIR DAMPERS AND ALLOW MODULATION BELOW THE MINIMUM OA DAMPER POSITION SETPOINT.
- WHEN SPACE TEMP IS BELOW HEATING SETPOINT, DDC SHALL MODULATE OUTSIDE & RETURN AIR DAMPERS TOWARDS MINIMUM OA POSITION, IN SEQUENCE WITH HEATING COIL CONTROL VALVE MODULATION TO MAINTAIN A DISCHARGE AIR TEMPERATURE SETPOINT THAT SHALL BE RESET BASED ON DEVIATION FROM SPACE TEMP SETPOINT. HEATING MODE DISCHARGE AIR TEMP SETPOINT RANGE SHALL BE 65F TO 85F.
- WHEN SPACE TEMP IS ABOVE COOLING SETPOINT, OA TEMP IS LESS THAN SPACE TEMP AND OUTSIDE AIR DEWPOINT IS ABOVE ECONOMIZER LOCKOUT SETPOINT OF 52F, DDC SHALL CONTROL DX COOLING COIL IN SEQUENCE WITH DAMPER OA ECONOMIZER TO MAINTAIN SPACE TEMP SETPOINT.
- WHEN SPACE TEMP IS ABOVE COOLING SETPOINT AND OA TEMP IS GREATER THAN SPACE TEMP OR OUTSIDE AIR DEWPOINT IS ABOVE ECONOMIZER LOCKOUT SETPOINT OF 52F, DAMPERS SHALL REMAIN AT MINIMUM OA POSITION AND DDC SHALL CONTROL DX COOLING COIL TO MAINTAIN SPACE TEMP SETPOINT.
- AUTO-RESET FREEZESTAT SHALL DEACTIVATE SF WHEN TEMP IS 35F OR BELOW. UPON CUT-OUT, DDC SYSTEM SHALL FULLY CLOSE OA DAMPER, FULLY OPEN HWH COIL CONTROL VALVE, BAS LOW-LIMIT FREEZESTAT ALARM SHALL BE ACTIVATED AND DDC SOFTWARE LOCKOUT SHALL HOLD UNIT OFF UNTIL IT IS RESET BY OPERATOR FROM GRAPHICAL INTERFACE FOR UNIT.
- WHEN UV IS DEACTIVATED, DX COOLING SHALL REMAIN OFF.
- WHEN OA TEMP IS BELOW 40F AND UV IS DEACTIVATED, HWH COIL CONTROL VALVE SHALL BE MODULATED BY DDC BASED ON DISCHARGE AIR TEMP TO MAINTAIN LOW LIMIT PLENUM TEMP SETPOINT OF 50F.

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TEMPERATURE CONTROLS

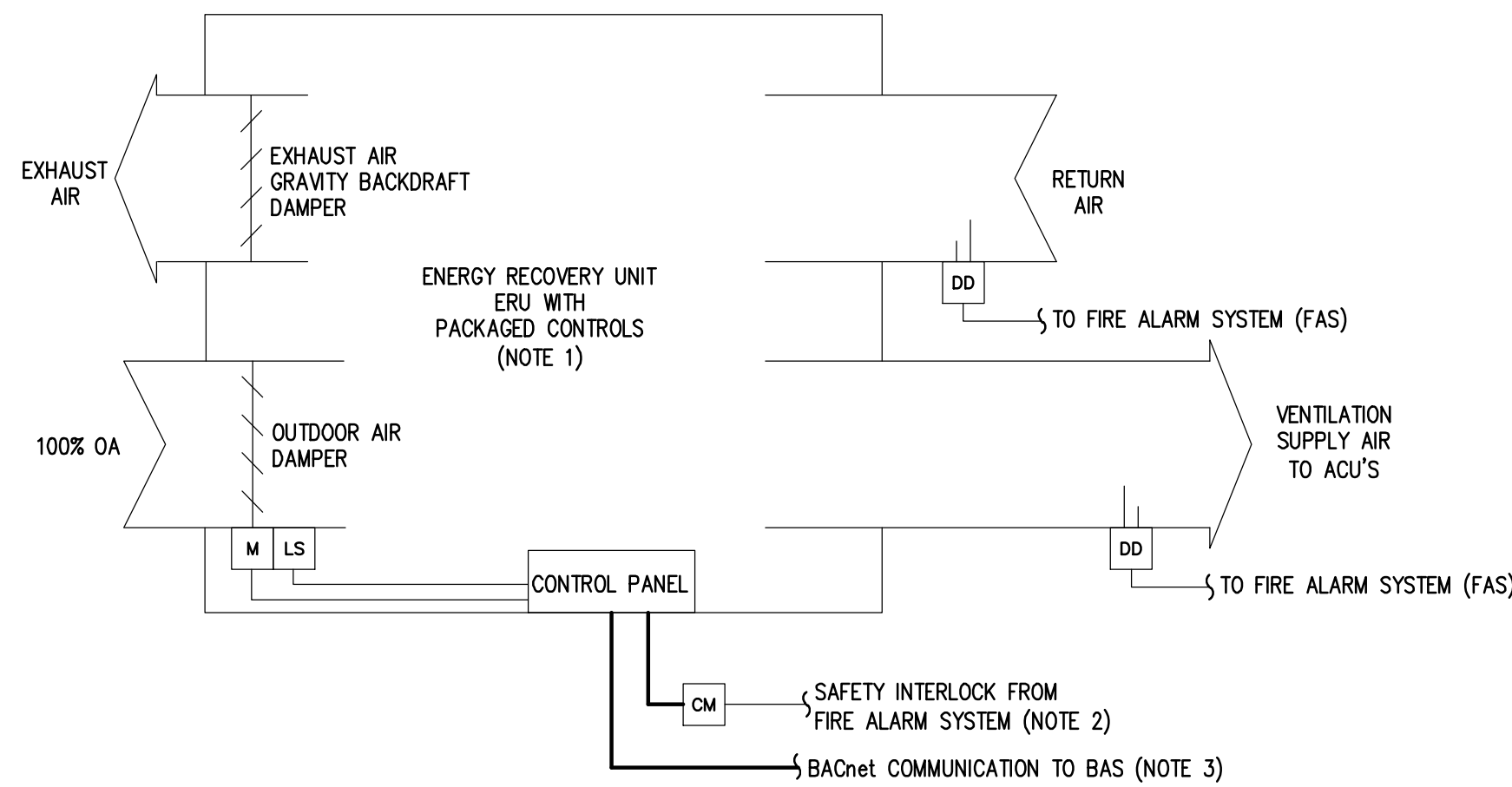


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PBA
Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
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Tel: 248-679-5666
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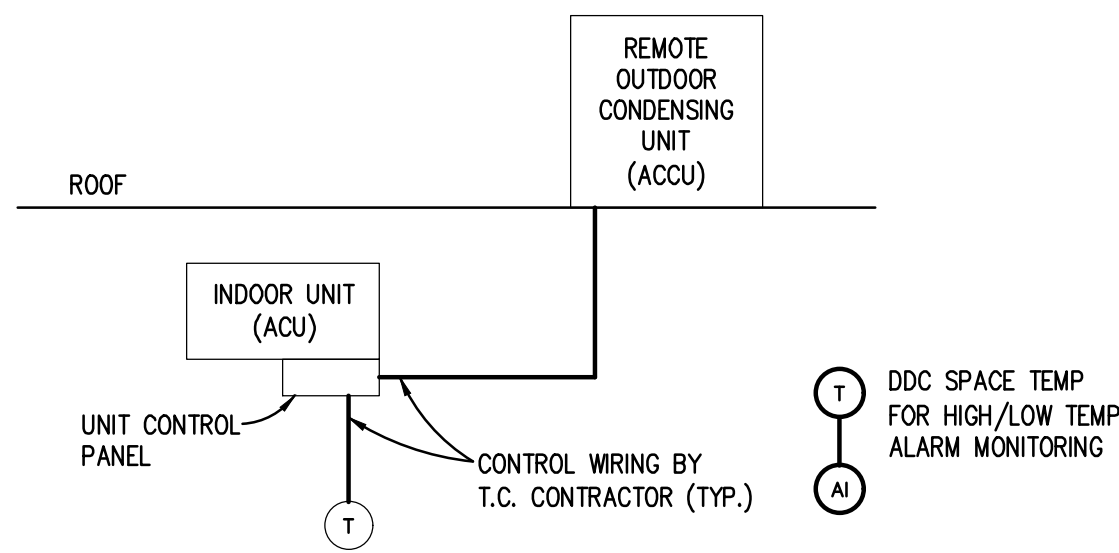
PACKAGED ERU-1 FIELD INSTALLATION & CONTROL

- NOTES:**
- SINGLE ZONE ENERGY RECOVERY UNIT WITH ENERGY RECOVERY WHEEL, PACKAGED DX COOLING, AND INDIRECT GAS HEATING SHALL BE SUPPLIED FOR PROJECT WITH COMPLETE PACKAGED CONTROLS INCLUDING ALL CONTROL DAMPERS AND BACnet COMMUNICATION INTERFACE FOR BAS SCHEDULING, MORNING WARM-UP, DISCHARGE AIR TEMP CONTROL, RETURN AIR DEHUMIDIFICATION CONTROL WITH HOT GAS REHEAT AND UNIT MONITORING. SINGLE POINT POWER SUPPLY CONNECTION SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. TC CONTRACTOR SHALL PROVIDE CONTROL WIRING FOR UNIT PLUS ANY MISCELLANEOUS FIELD CONTROL WIRING THAT MAY BE REQUIRED FOR PACKAGED UNIT THAT IS NOT SHOWN.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEM COMPONENTS AND WIRING FROM FIRE ALARM PANEL TO CONTROL MODULE. TC CONTRACTOR SHALL PROVIDE WIRING FROM CONTROL MODULE TO ERU SAFETY CUTOFF CIRCUIT.
 - TC CONTRACTOR SHALL PROVIDE BACnet COMMUNICATION INTERFACE WIRING FROM ERU CONTROL PANEL TO BAS NETWORK SUPERVISORY CONTROLLER, COMMUNICATING BUT NOT LIMITED TO THE FOLLOWING POINTS AS AVAILABLE:
 - OCCUPANCY MODE SCHEDULER (FROM BAS)
 - EFFECTIVE OCCUPANCY MODE (TO BAS)
 - SUPPLY FAN COMMAND STATUS (TO BAS)
 - SUPPLY FAN RUN STATUS (TO BAS)
 - EXHAUST FAN COMMAND STATUS (TO BAS)
 - EXHAUST FAN RUN STATUS (TO BAS)
 - OUTSIDE AIR TEMP (TO BAS)
 - DISCHARGE AIR TEMP (TO BAS)
 - RETURN AIR TEMP (TO BAS)
 - RETURN AIR HUMIDITY (TO BAS)
 - DISCHARGE AIR TEMP SETPOINT (FROM BAS)
 - RETURN AIR HUMIDITY SETPOINT (FROM BAS)
 - HEATING/COOLING MODE STATUS (TO BAS)
 - HEATING OUTPUT STATUS (TO BAS)
 - COOLING OUTPUT STATUS (TO BAS)
 - EXHAUST AIR DIRTY FILTER STATUS (TO BAS)
 - OUTSIDE AIR DIRTY FILTER STATUS (TO BAS)
 - MISC UNIT TEMPERATURE MONITORING (TO BAS)
 - TEMP SENSOR FAILURE ALARMS (TO BAS)
 - UNIT SAFETY CUTOFF ALARMS (TO BAS)
 - OTHER MISC ALARMS (TO BAS)

- TC CONTRACTOR SHALL OBTAIN EQUIPMENT SHOP DRAWINGS FROM SELECTED ERU SUPPLIER TO DEVELOP GRAPHICS THAT REPRESENT ACTUAL UNIT CONFIGURATION WITH COMPONENTS SHOWN IN CORRECT LOCATIONS.
- TC CONTRACTOR SHALL INCLUDE A MINIMUM OF 4 HOURS WITH BID (OR MORE AS DETERMINED BY TC CONTRACTOR THAT SHOULD BE DOCUMENTED IN THEIR SCOPE OF WORK SUMMARY) TO REVIEW UNIT SUBMITTAL TO DETERMINE FIELD INSTALLED COMPONENTS AND WIRING REQUIREMENTS AND INTEGRATION DATA AVAILABLE FROM UNIT'S PACKAGED CONTROLS FOR DEVELOPMENT OF SYSTEM GRAPHICS TO INCLUDE RELEVANT INFORMATION FOR OWNER'S CONTROL AND MONITORING OF UNIT. LABOR HOURS SHALL ALSO ACCOMMODATE TIME SPENT WITH UNIT MANUFACTURER'S TECHNICIAN TO COORDINATE ALL PACKAGED CONTROLLER POINTS TO BE INTEGRATED TO THE BAS. TC CONTRACTOR SHALL LOG ALL TIME SPENT ON EACH UNIT RELATIVE TO THIS SCOPE OF WORK TO ENSURE FAIR COMPENSATION FOR TC CONTRACTOR INVOLVEMENT TO PROPERLY CONTROL MODES OF UNIT OPERATION, SET UP DESIRED SETPOINT ADJUSTMENTS AND DIAGNOSTIC MONITOR OF UNIT.

SEQUENCE OF OPERATION:

- FOR OCCUPIED MODE, ERU WITH PACKAGED CONTROLS SHALL MAINTAIN A DISCHARGE AIR TEMP SETPOINT OF 70F (SETPPOINT ADJ. THRU BAS) WHILE SUPPLY AND EXHAUST FANS OPERATES CONTINUOUSLY.
- ERU SHALL INCLUDE DEHUMIDIFICATION MODE WHEN RETURN AIR HUMIDITY EXCEEDS HIGH LIMIT SETPOINT.
- FOR UNOCCUPIED MODE, ERU SHALL REMAIN OFF.
- BACnet OPEN PROTOCOL COMMUNICATIONS INTERFACE SHALL BE PROVIDED WITH PACKAGED CONTROLS AND CONNECTED TO OWNER'S BUILDING AUTOMATION SYSTEM THAT SHALL ALLOW UNIT SCHEDULING, FAN STATUSES, DISCHARGE AIR TEMP ADJUSTMENTS AND ADDITIONAL UNIT MONITORING AS AVAILABLE.
- DUCT SMOKE DETECTOR(S) SHALL DEACTIVATE UNIT THRU FIRE ALARM SYSTEM CONTROL MODULE WHEN PRODUCTS OF COMBUSTION ARE DETECTED.

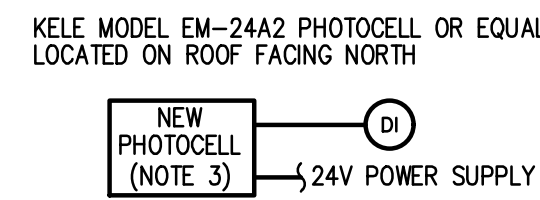
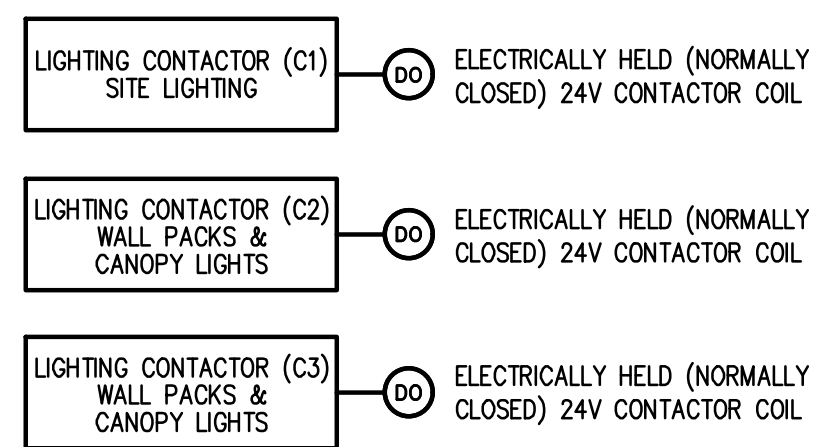


SPLIT SYSTEM PACKAGED ACU FIELD WIRING & CONTROL

TYPICAL FOR ACU-43/ACCU-7 & ACU-44/ACCU-8

- NOTES:**
- REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF UNITS.
 - TC CONTRACTOR SHALL PROVIDE FIELD WIRING BETWEEN INDOOR UNIT CONTROLS AND THE REMOTE CONDENSER.
 - TC CONTRACTOR SHALL INSTALL THERMOSTAT PROVIDED BY ACU SUPPLIER AND PROVIDE REQUIRED FIELD WIRING.
 - TC CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR EXACT TERMINATIONS AND WIRING REQUIREMENTS.

- SEQUENCE OF OPERATION:**
- DDC SHALL MONITOR SPACE TEMP AND ACTIVATE ALARM IF HIGH OR LOW LIMIT SETPOINTS ARE REACHED.

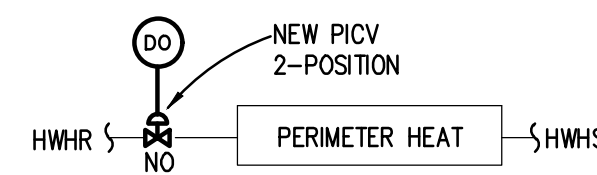


BUILDING EXTERIOR LIGHTING CONTROL

- NOTES:**
- REFER TO LIGHTING PLANS FOR LOCATION OF LIGHTING CONTROL CONTACTORS.
 - COORDINATE WIRING REQUIREMENTS AND TERMINATIONS WITH ELECTRICAL CONTRACTOR.
 - TC CONTRACTOR SHALL PROVIDE PHOTOCELL, 24 POWER SUPPLY AND ASSOCIATED WIRING FOR BAS FOR MONITORING AND OVERRIDE OFF CONTROL OF EXTERIOR LIGHTING SCHEDULES.

SEQUENCE OF OPERATION:

- DDC SHALL CONTROL OUTDOOR LIGHTING BASED ON EARLY MORNING AND NIGHT TIME SCHEDULES.
- DDC MONITORED PHOTOCELL SHALL BE USED FOR "OFF" OVERRIDE CONTROL OF SCHEDULED OPERATION IF DURING DAYLIGHT.



PERIMETER HEATING CONTROL - SPACES WITHOUT & WITH ACU CONTROL

TYPICAL RADIANT WALL PANEL & FINNED TUBE RADIATION

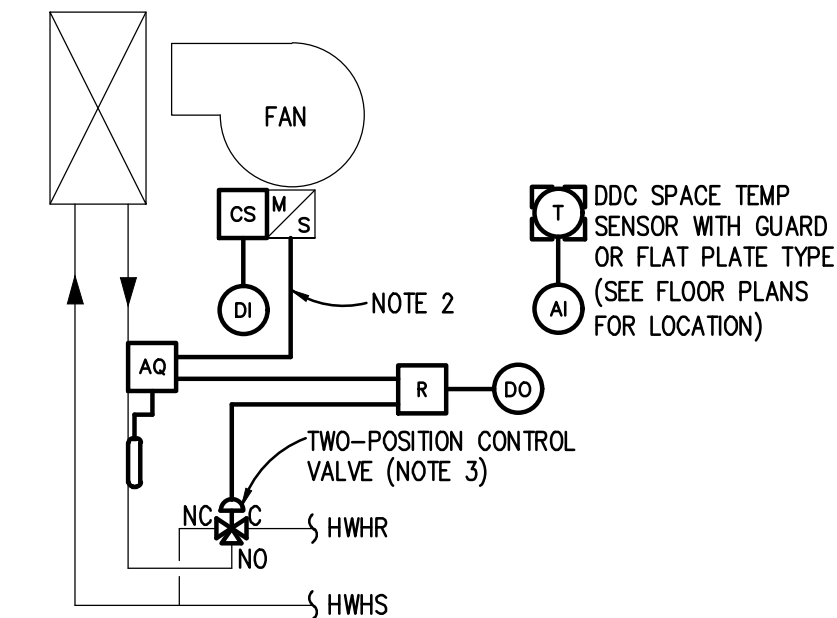
- NOTES:**
- REFER TO PIPING PLANS FOR QUANTITY AND LOCATION OF UNITS FOR BOTH TYPES OF CONTROL; PERIMETER HEATING CONTROL WITH ACU & WITHOUT ACU.
 - FOR EXISTING FINNED TUBE RADIATION, REFER TO PIPING DRAWINGS FOR CONTROL VALVE SIZING PARAMETERS.
 - CONTROL VALVES SHALL BE FURNISHED BY TC CONTRACTOR FOR INSTALLATION BY MECHANICAL CONTRACTOR.
 - FOR SPACES WITH BOTH TYPES OF SENSORS, THE FLAT PLAT DDC SPACE TEMP SENSOR SHALL BE LOCATED JUST BELOW THE VRV SPACE TEMP SENSOR/CONTROLLER.

SEQUENCE OF OPERATION (FOR UNITS NOT SERVING SAME SPACE WITH ACU):

- ALL SETPOINTS AND DEADBANDS SHALL BE ADJUSTABLE THROUGH DDC SYSTEM.
- DDC SYSTEM SHALL OPEN/CLOSE PERIMETER HEATING CONTROL VALVE AS REQUIRED TO MAINTAIN SPACE TEMP SETPOINT OF 70F DURING BLDG OCCUPANCY AND 62F DURING BLDG UNOCCUPANCY.
- DDC SYSTEM SHALL PROVIDE A 2F DEADBAND AROUND SETPOINTS FOR CONTROL.

VRV/ACU SPACE TEMP SENSOR/CONTROLLER - NOTE 4 (SEE FLOOR PLANS FOR LOCATION)

DDC SPACE TEMP FLAT PLATE TYPE - NOTE 4 (SEE FLOOR PLANS FOR LOCATION)

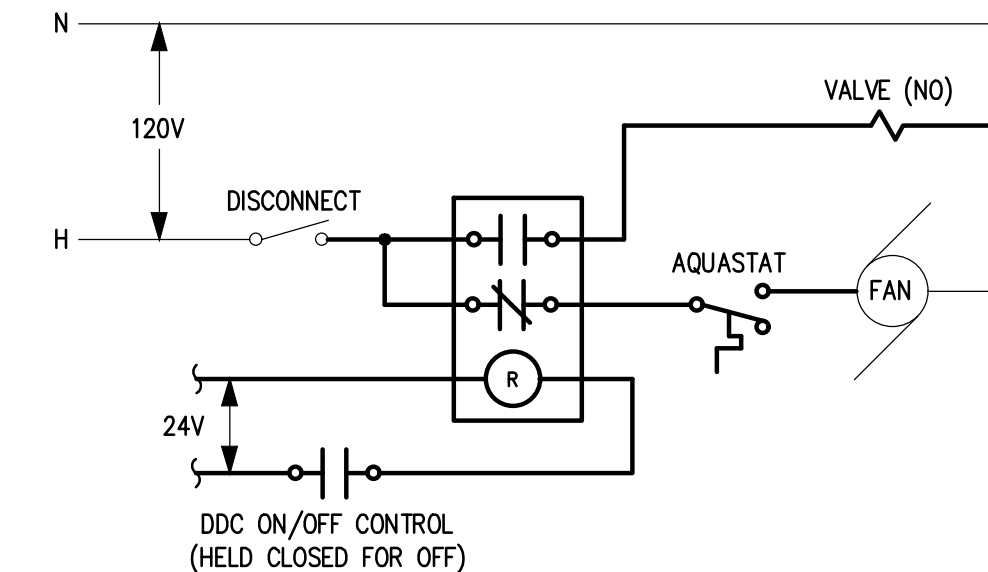


HWH CABINET UNIT HEATER CONTROL

- NOTES:**
- REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF UNITS.
 - AQUASTAT SHALL BE WIRED IN SERIES WITH FAN CONTROL WIRING CIRCUIT.
 - TC CONTRACTOR SHALL FURNISH 3-WAY CONTROL VALVES FOR HEATING ELEMENTS PER MECHANICAL SCHEDULES FOR INSTALLATION BY MECHANICAL CONTRACTOR.

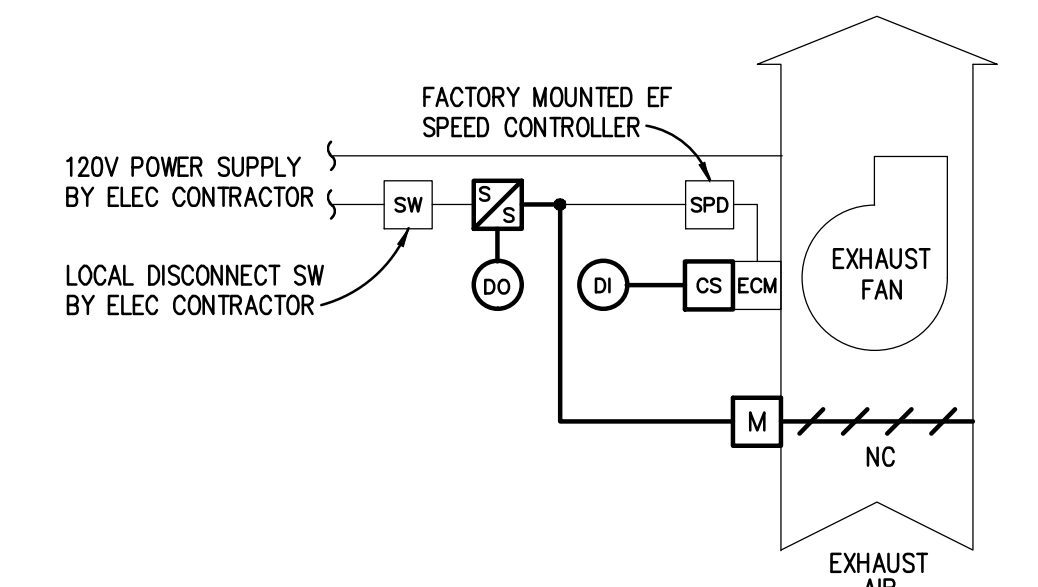
SEQUENCE OF OPERATION:

- ASHRAE 90.1-2013 FOR VESTIBULES ONLY:
 - DDC SHALL ENABLE/DISABLE CUH FAN CIRCUIT AND OPEN/CLOSE HEATING VALVE AS REQUIRED TO MAINTAIN SPACE TEMP SETPOINT OF 60F. FAN SHALL ACTIVATE UPON PROOF OF HWHR FLOW BY AQUASTAT. AQUASTAT SHALL PROVIDE 4F DEADBAND FOR CONTROL. DDC SHALL PROVIDE 2F DEADBAND FOR CONTROL.
 - WHEN OUTSIDE AIR TEMP INCREASES ABOVE 45F, DDC SHALL DISABLE CONTROL OF THE CUH.
- FOR ALL OTHER AREAS/ROOMS:
 - DDC SHALL ENABLE/DISABLE CUH FAN CIRCUIT AND OPEN/CLOSE HEATING VALVE AS REQUIRED TO MAINTAIN SPACE TEMP SETPOINT OF 68F DURING BUILDING OCCUPIED MODE AND 50F DURING BUILDING UNOCCUPIED MODE. CUH FAN SHALL ACTIVATE UPON PROOF OF HWHR FLOW BY AQUASTAT. AQUASTAT SHALL PROVIDE 4F DEADBAND FOR CONTROL. DDC SHALL PROVIDE 2F DEADBAND CONTROL AROUND SETPOINTS.
 - WHEN OUTSIDE AIR TEMP INCREASES ABOVE 60F, DDC SHALL DISABLE CONTROL OF THE CUH.



HWH CABINET UNIT HEATER WIRING

TYPICAL

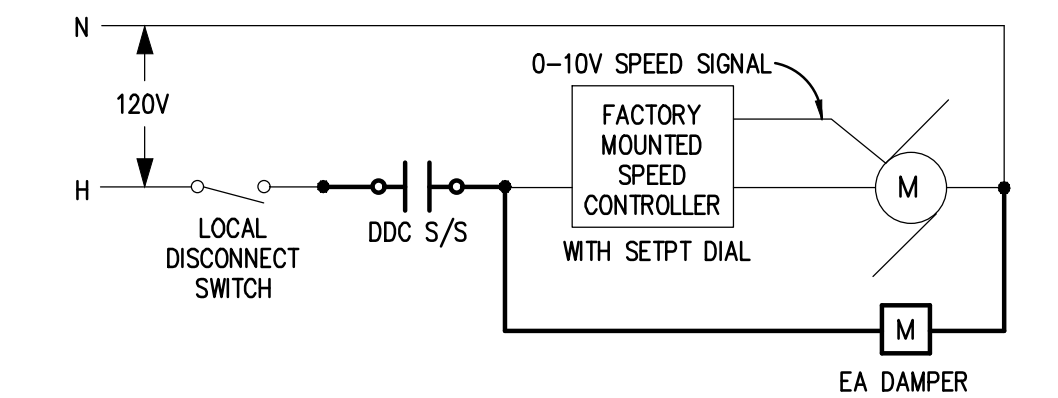


EXHAUST FAN (EF-1, 2 & 3) CONTROL

- NOTES:**
- REFER TO FLOOR PLANS FOR LOCATION OF UNITS.
 - TC CONTRACTOR SHALL FURNISH MOTORIZED DAMPER FOR INSTALLATION BY SHEETMETAL CONTRACTOR. REFER TO FLOOR PLANS FOR DAMPER SIZES AND VERIFY WITH SHEETMETAL CONTRACTOR.

SEQUENCE OF OPERATION:

- EXHAUST FAN SHALL BE STARTED AND STOPPED BY DDC BASED ON TIME SCHEDULE. WIRING INTERLOCK SHALL OPEN DAMPER.
- DDC SHALL MONITOR EF RUN STATUS THRU CURRENT SWITCH. ABNORMAL STATUS CONDITION SHALL ACTIVATE ALARM.
- EXHAUST FAN SPEED SHALL BE MANUALLY SET VIA ON BOARD POTENTIOMETER DIAL DURING SYSTEM BALANCING.



EF-1, 2 & 3 M/S WIRING

TYPICAL

Bidding and Permits: 31 July 2023
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 Design Development: 08 May 2023

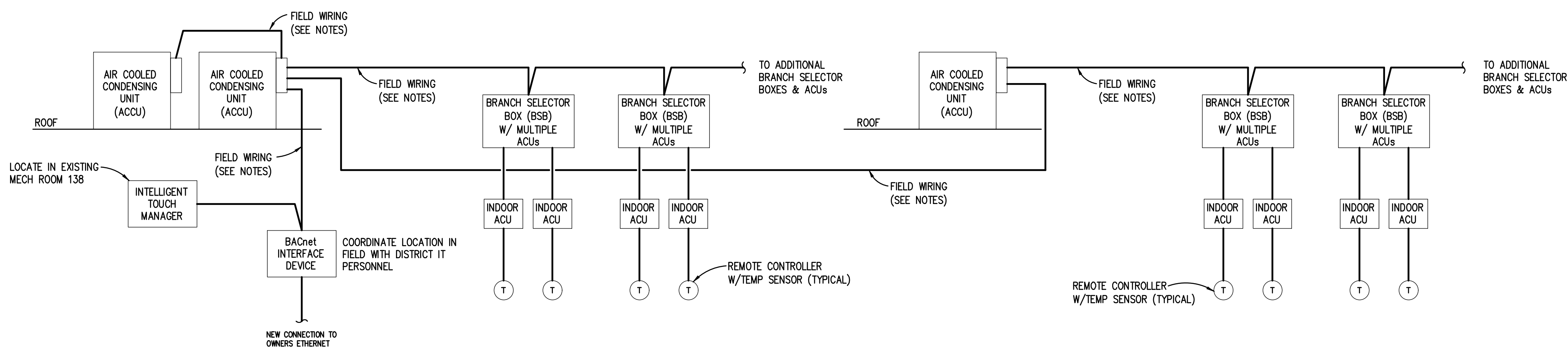
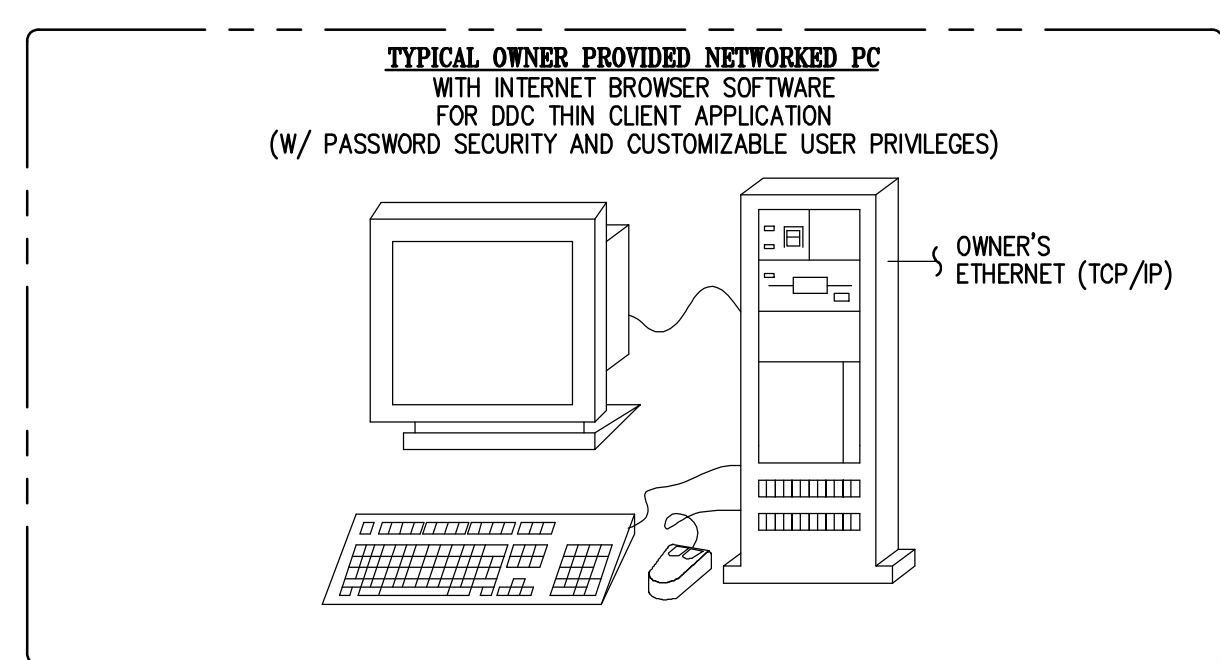
Peter Basso Associates Inc.
 CONSULTING ENGINEERS
 5145 Livernois, Suite 100
 Troy, Michigan 48098-3276
 Tel: 248-979-5666
 Fax: 248-979-0007
 www.PeterBassoAssociates.com
 PBA Project No: 2022.0419

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Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

M8.04



BACnet IP INTERFACE TO DDC SYSTEM WITH THE FOLLOWING CONTROL & MONITORING POINTS PER ROOM:

- ON/OFF (SETTING)
- ON/OFF STATUS
- COMPRESSOR STATUS
- INDOOR FAN STATUS
- ALARM STATUS
- COMMUNICATION STATUS
- MEASURED ROOM TEMPERATURE
- ROOM TEMPERATURE SETPOINT
- REMOTE CONTROL OPERATION (ON/OFF)
- REMOTE CONTROL OPERATION (RM TEMP SETPOINT)

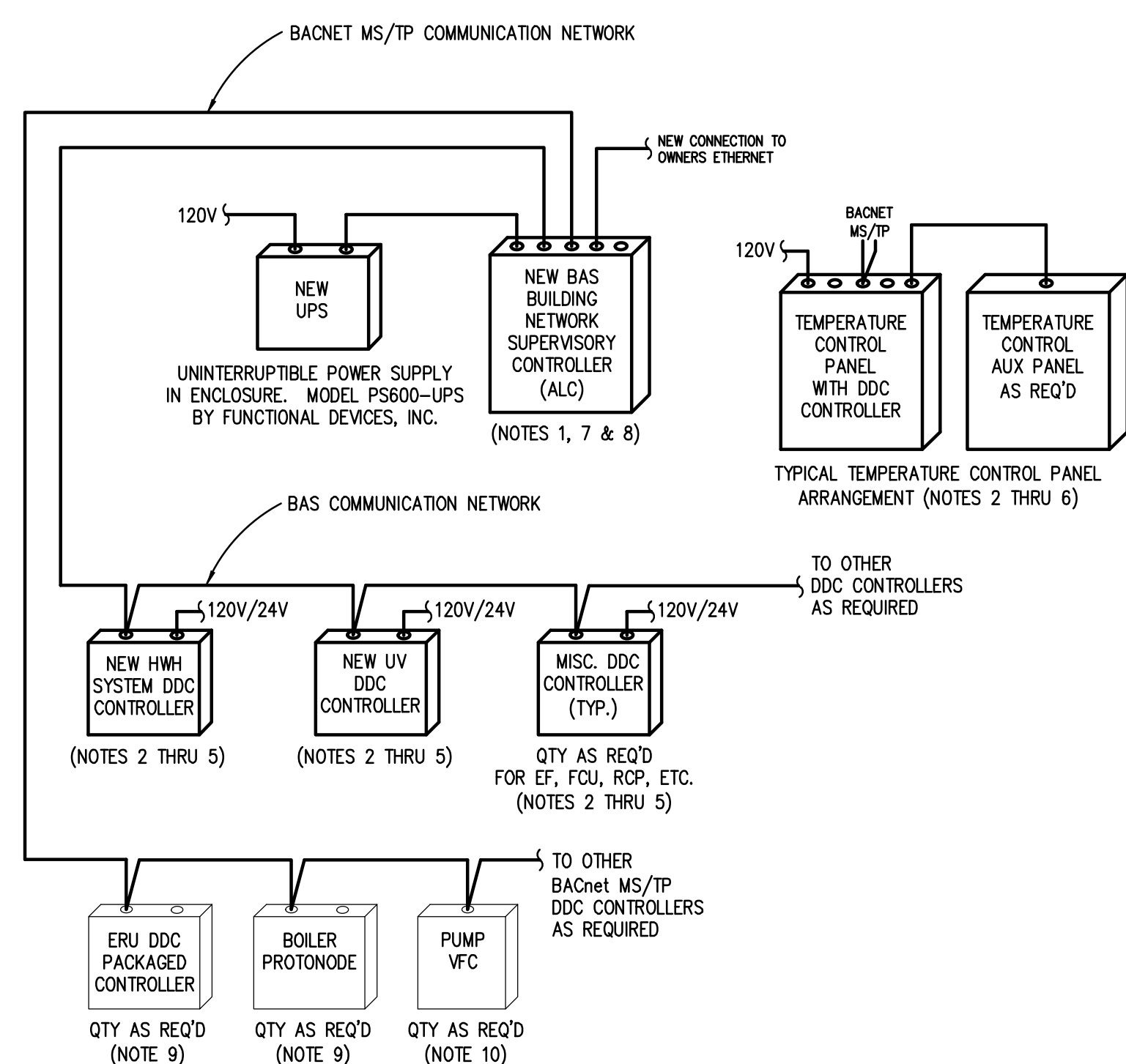
PACKAGED VRV SYSTEM FIELD WIRING & CONTROL

NOTES:

1. REFER TO FLOOR PLANS FOR LOCATIONS AND QUANTITIES OF ACUs, ASSOCIATED BRANCH SELECTOR BOXES AND ASSOCIATED ROOM CONTROLLERS.
2. TC CONTRACTOR SHALL PROVIDE FIELD WIRING BETWEEN INDOOR AC UNIT CONTROLS, BRANCH SELECTOR BOXES, REMOTE CONDENSING UNITS, THE SYSTEM INTELLIGENT TOUCH MANAGER AND BACnet INTERFACE DEVICE. TC CONTRACTOR SHALL INSTALL ACU REMOTE CONTROLLERS PROVIDED BY ACU SUPPLIER AND PROVIDE REQUIRED FIELD WIRING. COORDINATE ALL FIELD WIRING WITH VRV SUPPLIER.
3. TC CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR EXACT WIRING AND TERMINATION REQUIREMENTS FOR ENTIRE VRV SYSTEM.
4. TC CONTRACTOR SHALL GENERATE GRAPHICAL FLOOR PLAN REPRESENTATION OF VRV ZONING SYSTEM WITH ZONE TEMPERATURES SETPOINT ADJUSTMENT CAPABILITY.

SEQUENCE OF OPERATION:

1. DDC SYSTEM SHALL COMMUNICATE WITH THE PACKAGED ACU SYSTEM THRU BACnet OPEN PROTOCOL FOR INDIVIDUAL ZONE OCCUPIED MODE CONTROL AND MONITORING.
2. DURING OCCUPIED MODE, INDIVIDUAL ACU UNIT ROOM CONTROLLERS SHALL SEQUENCE RESPECTIVE ACU AS NECESSARY TO MAINTAIN OCCUPIED COOLING SETPOINT OF 74F (ADJUSTABLE) AND OCCUPIED HEATING SETPOINT OF 70F (ADJUSTABLE).
3. DURING UNOCCUPIED MODE, INDIVIDUAL ACU UNIT ROOM CONTROLLER SHALL SEQUENCE RESPECTIVE ACU AS NECESSARY TO MAINTAIN UNOCCUPIED COOLING SETPOINT OF 85F (ADJUSTABLE) AND UNOCCUPIED HEATING SETPOINT OF 62F (ADJUSTABLE).
4. VRV SYSTEM INTELLIGENT TOUCH MANAGER PANEL OR BACnet INTERFACE TO BUILDING AUTOMATION SYSTEM SHALL BE USED TO SET/MODIFY OCCUPANCY SCHEDULE AND SETPOINTS.



BUILDING AUTOMATION SYSTEM ARCHITECTURE

NO SCALE

NOTES:

1. BUILDING AUTOMATION SYSTEM FOR BUILDING IS TO BE COMPRISED OF AUTOMATED LOGIC CONTROLS CONNECTED TO THE LATEST HARDWARE/SOFTWARE REVISION OF AUTOMATED LOGIC SUPERVISORY CONTROLLER/OPERATOR INTERFACE PLATFORM, AS PROVIDED BY AUTOMATED CONTRACTING SERVICES, SOUTHFIELD, MI.
2. REFER TO TEMPERATURE CONTROL SCHEMATICS FOR THE REQUIRED POINTS ASSOCIATED FOR EACH NEW HVAC SYSTEM PER MECHANICAL DRAWINGS.
3. TC CONTRACTOR SHALL DETERMINE DDC CONTROLLER QUANTITY AND AUXILIARY PANEL REQUIREMENTS BASED ON POINT DENSITIES AND LOCATIONS PER AVAILABLE MOUNTING SPACE. UNLESS SPECIFICALLY NOTED IN DESIGN DRAWINGS, TC CONTRACTOR SHALL LOCATE TEMPERATURE CONTROL PANELS WITH CONTROLLERS AND AUX COMPONENTS AS REQUIRED. COORDINATE WITH OTHER TRADES.
4. TC CONTRACTOR SHALL PROVIDE REQUIRED POWER SUPPLIES AS INDICATED IN TC GENERAL NOTES.
5. TC CONTRACTOR SHALL PROVIDE 24V TRANSFORMERS REQUIRED FOR TC CONTRACTOR PROVIDED CONTROLLERS AS REQUIRED. TRANSFORMERS SHALL BE LOCATED WITHIN EQUIPMENT ENCLOSURES OR OTHER TC PROVIDED ENCLOSURES TO BE LOCATED IN MECHANICAL OR ELECTRICAL ROOMS - COORDINATE LOCATIONS. MAXIMUM TRANSFORMER SIZE SHALL BE 100VA.
6. TC CONTRACTOR SHALL PROVIDE AUXILIARY PANEL FOR GAUGES, TRANSMITTERS, RELAYS, POWER TRANSFORMERS, ETC
7. ETHERNET CABLE FROM NETWORK SWITCH TO NEW NETWORK SUPERVISOR PROVIDED BY OWNER. COORDINATE INSTALLATION AS REQUIRED WITH OWNER'S INFORMATION TECHNOLOGY PERSONNEL
8. GRAPHICS FOR OPERATOR INTERFACE OF SYSTEMS ARE TO BE BUILT ON THE EXISTING AUTOMATED LOGIC SERVER APPLICATION SOFTWARE LOCATED ON THE DISTRICT'S IT NETWORK.
9. DDC CONTROLLERS FOR PACKAGED CONTROL EQUIPMENT SHALL INCLUDE BACnet MS/TP INTERFACE CARDS FOR THIS PROJECT. TC CONTRACTOR TO PROVIDE BACnet NETWORK WIRING TO PACKAGED CONTROLLERS.
10. TC CONTRACTOR SHALL PROVIDE BACnet COMMUNICATION TO VARIABLE FREQUENCY CONTROLLERS FOR NEW EQUIPMENT WHERE APPLICABLE FOR ADDITIONAL MONITORING INFORMATION. REFER TO VFC BACnet INTERFACE & MONITORING REQUIREMENTS DETAIL.

Bidding and Permits: 31 July 2023
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Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No. 2022.0419

TEMPERATURE CONTROLS



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

M8.05

RACEWAY / CONDUCTOR / CABLE APPLICATION SCHEDULE																	
	WIRE		RACEWAY							CABLE/ CORD							
	COPPER, TYPE THHN/THWN-2	COPPER, TYPE XHHW-2	ALUMINUM, TYPE XHHW-2 (100A AND ABOVE ONLY)	ELECTRICAL METALLIC TUBING (EMT)	INTERMEDIATE METAL CONDUIT (IMC)	RIGID STEEL CONDUIT (RSC)	PVC COATED RIGID STEEL CONDUIT	RIGID NON-METALLIC CONDUIT (RNC) TYPE EPC-40	HIGH DENSITY POLYETHYLENE (HDPE) SCHEDULE 40	REINFORCED THERMOSET RESIN CONDUIT (RTRC) TYPE AG	REINFORCED THERMOSET RESIN CONDUIT (RTRC) TYPE BC	FLEXIBLE METAL CONDUIT (EMC)	LIQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC)	SURFACE RACEWAY	METAL CLAD TYPE CABLE WITH INSULATED GROUND WIRE (TYPE MC)	VFC CABLE	POWER LIMITED CABLE
FEEDERS - EXTERIOR	EXPOSED, SURFACE MOUNTED TO STRUCTURE	X	X	X	X	X	X										
	EXPOSED, WITH FREESTANDING SUPPORT	X	X	X	X	X	X			X							
	CONCEALED IN RETAINING WALL OR SIMILAR ELEMENT	X	X			X	X	X									
	BELOW PARKING LOTS AND ROADWAYS	X	X							X							
FEEDERS - INTERIOR	CONCEALED, ACCESSIBLE CEILINGS	X	X	X	X												
	CONCEALED, INACCESSIBLE CEILINGS	X	X	X	X												
	CONCEALED IN GYPSUM BOARD PARTITION WALLS	X	X	X	X												
	CONCEALED IN CMU WALLS	X	X	X	X												
BRANCH CIRCUITS - EXTERIOR	EXPOSED, SURFACE MOUNTED TO STRUCTURE	X				X	X	X									
	EXPOSED, WITH FREESTANDING SUPPORT	X				X	X	X									
	CONCEALED IN RETAINING WALL OR SIMILAR ELEMENT	X				X	X	X									
	BELOW PARKING LOTS AND ROADWAYS	X				X	X	X									
BRANCH CIRCUITS - INTERIOR	CONCEALED, ACCESSIBLE CEILINGS	X				X	X								X		
	CONCEALED, INACCESSIBLE CEILINGS	X				X	X										
	CONCEALED IN GYPSUM BOARD PARTITION WALLS	X				X	X						X			X	
	CONCEALED IN CMU WALLS	X				X	X										
SPECIAL APPLICATIONS	EXPOSED, BELOW 10' AFF AND SUBJECT TO DAMAGE	X				X	X	X									
	EXPOSED, BELOW 10' AFF AND NOT SUBJECT TO DAMAGE	X				X	X								X		
	EXPOSED, ABOVE 10' AFF UNFINISHED SPACES	X				X	X										
	EXPOSED, FINISHED SPACES	X													X		
GENERAL NOTES: 1. TRANSITION FROM PVC/HDPE AND PROVIDE RIGID STEEL OR RTRC SNEEPS WHERE CONDUITS PENETRATE WALLS, CONCRETE SLABS, CONCRETE BASES, AND ASPHALT. 2. REFER TO SPECIFICATIONS FOR RESTRICTIONS ON MC/AC CABLE INSTALLATION. 3. EMT SHALL NOT BE USED ON THE EXTERIOR OF A BUILDING OR IN AREAS SUBJECT TO DAMAGE BELOW 10' AFF. 4. INSTALL SURFACE RACEWAYS ONLY WHERE INDICATED ON DRAWINGS. KEYED NOTES: 1. NON-ARMORED CABLE SHALL BE INSTALLED IN RACEWAY. ARMORED CABLE SHALL BE INSTALLED IN TRAY OR FREE-AIR AS APPLICABLE.																	

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE - GENERAL PURPOSE																	
OVERCURRENT DEVICE RATING (AMPERES)	COPPER CONDUCTORS						KEYED NOTES	ALUMINUM CONDUCTORS									
	WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE					WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE							
	PHASE & NEUTRAL	GROUND	SINGLE PHASE 3 WIRE+G (1PH, 1N, 1G, 2PH, 1G)	SINGLE PHASE 3 WIRE+G (2PH, 1N, 1G)	THREE PHASE 3 WIRE+G (3PH, 1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH, 1N, 1G)		PHASE & NEUTRAL	GROUND	SINGLE PHASE 3 WIRE+G (2PH, 1N, 1G)	THREE PHASE 3 WIRE+G (3PH, 1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH, 1N, 1G)					
15-20	12	12	3/4"	3/4"	3/4"	3/4"											
25-30	10	10	3/4"	3/4"	3/4"	3/4"											
35-40	8	10	3/4"	3/4"	3/4"	3/4"											
45-50	8 (6)	10	3/4"	3/4"	3/4"	3/4"	1										
60	6 (4)	10	3/4" (1")	3/4" (1")	3/4" (1")	1" (1 1/4")	1										
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"											
80	4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"	1										
90-100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1	1	6	1 1/2"	1 1/2"	1 1/2"					
110	2 (1)	6	-	1 1/4"	1 1/4"	1 1/4" (1 1/2")	1	1/0	4	1 1/2"	1 1/2"	2"					
125	1 (1/0)	6	-	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"	1	2/0	4	1 1/2"	1 1/2"	2"					
150	1/0	6	-	1 1/2"	1 1/2"	1 1/2"		3/0	4	2"	2"	2 1/2"					
175	2/0	6	-	2"	2"	2"		4/0	4	2"	2"	2 1/2"					
200	3/0	6	-	2"	2"	2 1/2"		250	4	2"	2"	3"					
225	4/0	4	-	2"	2"	2 1/2"		300	2	2 1/2"	2 1/2"	3"					
250	250	4	-	2 1/2"	2 1/2"	2 1/2"		350	2	2 1/2"	2 1/2"	3"					
300	350	4	-	2 1/2"	2 1/2"	3"		500	2	3"	3"	3 1/2"					
350	500	3	-	3"	3"	3"		2-4/0	2-1/0	2-2"	2-2"	2-2"					
400	500	3	-	3"	3"	3"		2-250	2-1/0	2-2 1/2"	2-2 1/2"	2-2 1/2"					
450	2-4/0	2-2	-	2-2"	2-2"	2-2 1/2"		2-300	2-1/0	2-2 1/2"	2-2 1/2"	2-3"					
500	2-250	2-2	-	2-2" 1/2"	2-2 1/2"	2-2 1/2"		2-350	2-1/0	2-2 1/2"	2-2 1/2"	2-3"					
600	2-350	2-1	-	2-2" 1/2"	2-2 1/2"	2-3"		2-500	2-2/0	2-3"	2-3"	2-3 1/2"					
700	2-500	2-1/0	-	2-3"	2-3"	2-3"		2-600	2-3/0	2-3"	2-3"	2-3 1/2"					
800	2-500	2-1/0	-	2-3"	2-3"	2-3 1/2"		3-400	3-3/0	3-3"	3-3"	3-3 1/2"					
1000	3-400	3-2/0	-	3-3"	3-3"	3-3"		3-600	3-4/0	-	3-3 1/2"	3-3 1/2"					
1200	3-600	3-3/0	-	3-3 1/2"	3-3 1/2"	3-3 1/2"		4-500	4-250	-	4-3"	4-3 1/2"					
1600	4-600	4-4/0	-	4-3 1/2"	4-3 1/2"	4-3 1/2"		5-600	5-350	-	5-3 1/2"	5-4"					
2000	5-600	5-250	-	5-3 1/2"	5-3 1/2"	5-3 1/2"		6-600	6-400	-	6-3 1/2"	6-4"					

GENERAL NOTES:
 1. CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE.
 2. CONTRACTOR MAY COMBINE 20A CIRCUITS AS NOTED IN SPECIFICATION.
 3. COPPER CONDUCTORS ARE BASED ON THHN/THWN UP TO AND INCLUDING #4/0. COPPER CONDUCTORS LARGER THAN #4/0 AND ALUMINUM CONDUCTORS ARE BASED ON XHHW-2.
 4. CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHER TYPES OF CONDUIT.
 5. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL EQUIPMENT LUG SIZES.
 6. SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE.
 7. OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLING DIFFERENT SIZE/QUANTITY OF CONDUCTORS TO OBTAIN AN EQUIVALENT AMPACITY.
 8. SPLICE FROM ALUMINUM TO COPPER PRIOR TO ENTERING EQUIPMENT LISTED FOR USE WITH COPPER CONDUCTORS ONLY OR USE COPPER CONDUCTORS FOR THE ENTIRE LENGTH OF FEEDER.

KEYED NOTES:
 1. CONDUCTORS ARE BASED ON 90°C, 600V. INSULATED WIRE APPLIED AT 75°C FOR TERMINATION RATED 60/75°C OR 75°C. FOR TERMINATION RATED AT 60°C, USE CONDUCTORS AND CONDUIT SIZES INDICATED IN PARENTHESES.

DTE LIGHTING INCENTIVES PROGRAM

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

- ON BEHALF OF THE OWNER, PROVIDE ALL REQUIRED INFORMATION FOR THE RESERVATION APPLICATION AND THE FINAL APPLICATION. REFER TO DTE ENERGY PROGRAM APPLICATION AT www.dteenergy.com.
- CONTRACTOR BUSINESS INFORMATION.
- LIGHTING INCENTIVES WORKSHEET/CUSTOM INCENTIVE WORKSHEET, AS REQUIRED.
- TYPE OF FIXTURES REMOVED, WATTAGE AND LAMP SIZE.
- EASY TO READ ITEMIZED INVOICES WITH PART NUMBERS OF ALL LIGHT FIXTURES, BALLASTS AND LAMPS.
- MANUFACTURERS CUT SHEETS WITH HIGHLIGHTED FIGURES, BALLAST, LAMPS, TYPE OF FIXTURE, ETC. AS REQUIRED BY DTE.
- MEASURES ARE COMPLETELY INSTALLED WITHIN 90 DAYS OF PROJECT APPROVAL.

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

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

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS						
BRANCH CKT RATING (A)	WIRE SIZE (AWG)	MAXIMUM BRANCH CIRCUIT LENGTH (IN FEET)				
		120V	208V	240V	277V	480V
20A	12	83	143	165	191	331
	10	128	222	256	295	511
	8	201	348	402	464	804
	6	313	542	625	721	1250
30A	10	85	148	170	197	341
	8	134	232	268	309	536
	6	208	361	417	481	833
	4	313	542	625	721	1250

GENERAL NOTES:
 1. THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9.
 2. PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
 3. CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT.
 4. LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

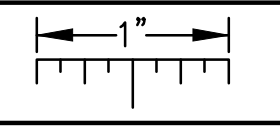
MOTOR CIRCUIT SIZING SCHEDULE (208V, 3 PHASE)				
MOTOR HP	SWITCH/FUSE	CIRCUIT BREAKER	STARTER SIZE/TYPE	MOTOR DISCONNECT (NOTE 3)
1/2	30/6A	15A	1	30A
3/4	30/6A	15A	1	30A
1	30/10A	15A	1	30A
1 1/2	30/10A	15A	1	30A
2	30/10A	15A	1	30A
3	30/20A	20A	1	30A
5	30/25A	35A	1	30A
7 1/2	60/40A	50A	1	60A
10	60/50A	60A	2	60A
15	60/60A	90A	3	60A
20	100/90A	100A	3	100A
25	100/100A	110A	3	100A
30	200/125A	125A	4	200A
40	200/175A	175A	4	200A
50	200/200A	200A	5	200A
60	400/250A	250A	5	400A
75	400/300A	300A	5	400A
100	400/400A	400A	6	400A
125	600/500A	600A	6	600A
150	600/600A	600A	6	600A

GENERAL NOTES:
 1. BASED ON MOTOR FULL LOAD AMPERES AS PROVIDED BY THE NEC.
 2. BASED ON MOTOR RUNNING OVERLOAD PROTECTIONS PROVIDED BY THERMAL OVERLOAD RELAYS.
 3. WHERE THE STARTER IS LOCATED REMOTE FROM THE MOTOR, PROVIDE DISCONNECT LOCATED AT THE MOTOR, SIZE AS INDICATED.

MOTOR CIRCUIT SIZING SCHEDULE (120V, SINGLE PHASE)				
MOTOR HP	CIRCUIT BREAKER	MANUAL MOTOR STARTER SIZE	COMBINATION STARTER SIZE	MOTOR DISCONNECT (NOTE 3)
1/6	15A	1 HP	0	20A
1/4	15A	1 HP	0	20A
1/3	15A	1 HP	0	20A
1/2	20A	1 HP	0	20A

GENERAL NOTES:
 1. BASED ON MOTOR FULL LOAD AMPERES AS PROVIDED BY THE NEC.
 2. BASED ON MOTOR RUNNING OVERLOAD PROTECTIONS PROVIDED BY THERMAL OVERLOAD RELAYS.
 3. WHERE THE STARTER IS LOCATED REMOTE FROM THE MOTOR, PROVIDE DISCONNECT LOCATED AT THE MOTOR, SIZE AS INDICATED.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



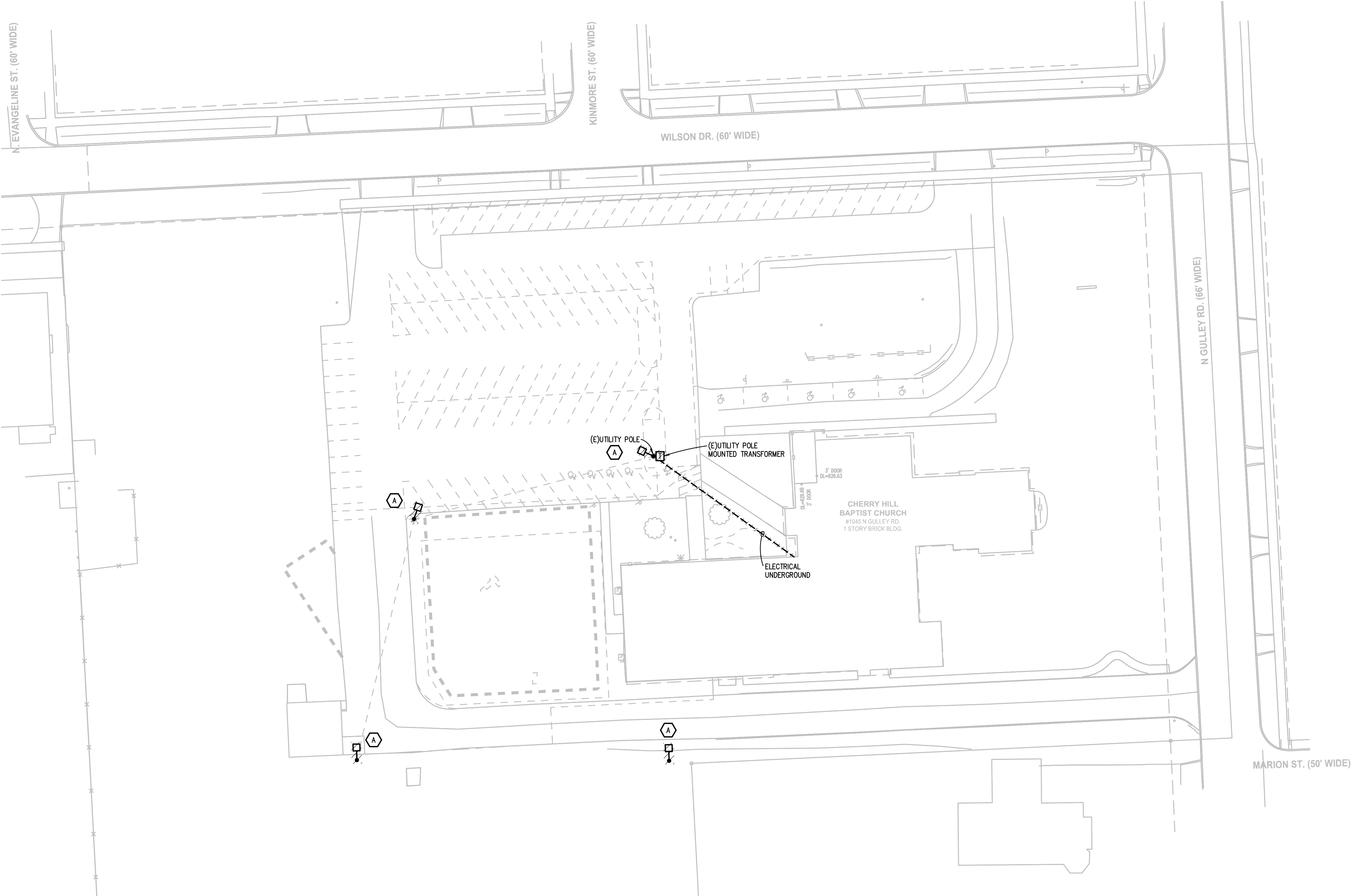
Know what's below.
Call before you dig.

SITE PLAN GENERAL NOTES:

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

DEMOLITION KEY NOTES:

- A. UTILITY TO REMOVE SITE LIGHTING FIXTURES, COORDINATE EXTENT OF DEMOLITION WITH UTILITY.



ELECTRICAL SITE DEMOLITION PLAN
SCALE: 1" = 30'

Bidding and Permits: 31 July 2023
Owner Review: 14 July 2023
Design Development: 08 May 2023

ELECTRICAL SITE DEMOLITION PLAN



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

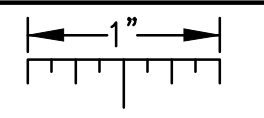
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Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

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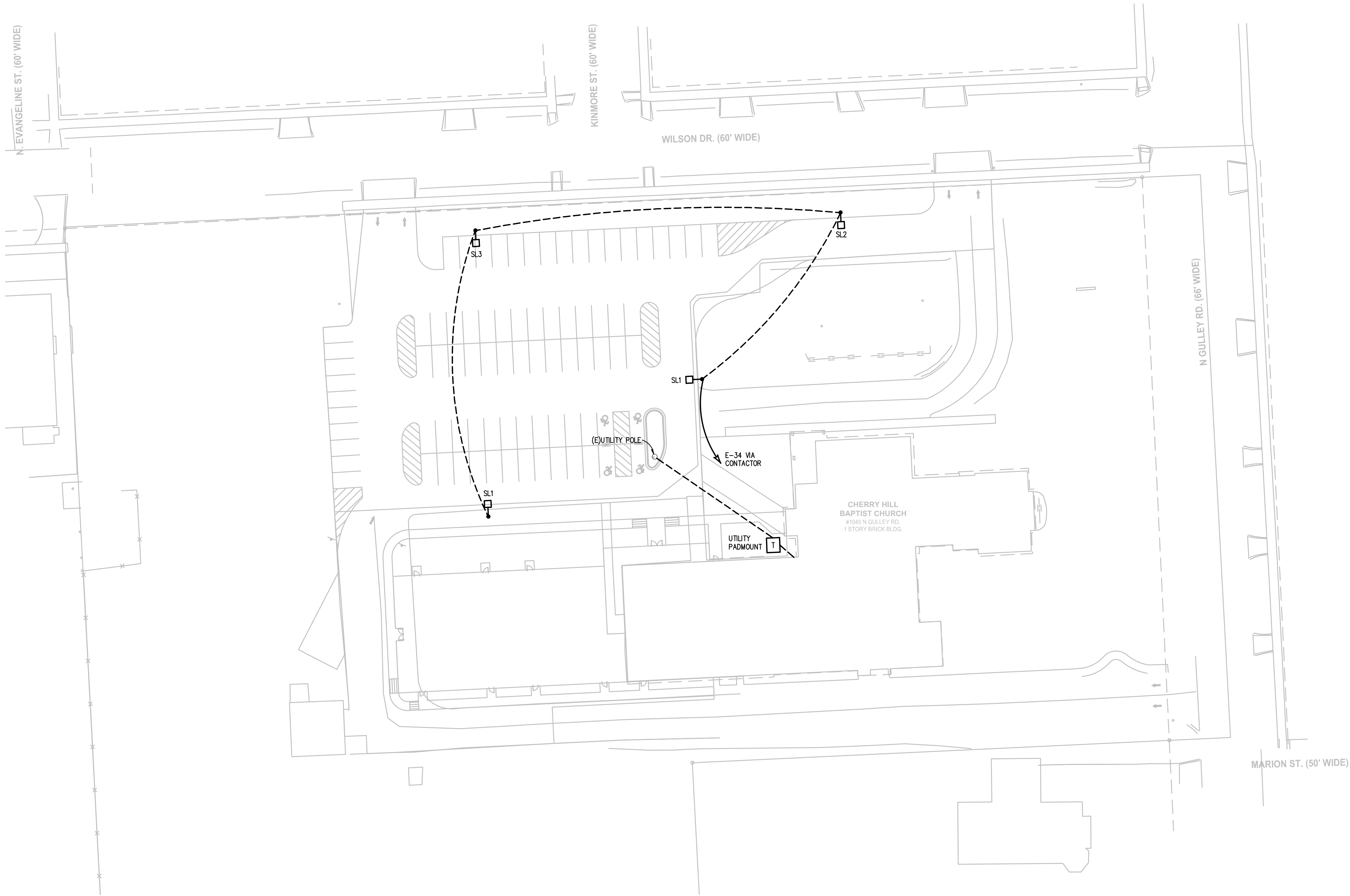
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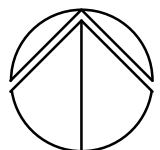
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SITE PLAN GENERAL NOTES:

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2. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
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4. UTILITIES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE EXACT LOCATION OF ALL EXISTING UTILITIES, AND ROUTING OF ALL NEW UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
5. DEWATER TRENCHES PRIOR TO INSTALLATION OF CONDUITS. PROVIDE WATER TIGHT FITTINGS ON ALL UNDERGROUND CONDUITS.
6. COORDINATE DEMOLITION WORK, AND ELECTRICAL AND TELEPHONE SERVICES TO THE SITE, WITH THE RESPECTIVE LOCAL UTILITY COMPANY REPRESENTATIVES PRIOR TO COMMENCEMENT OF WORK. INCLUDE ALL ASSOCIATED COST/FEES BY THE UTILITY COMPANIES IN THE BID PRICE.
7. INSTALL UNDERGROUND CONDUITS 42" BELOW FINISHED GRADE, MINIMUM, UNLESS NOTED OTHERWISE.
8. COORDINATE SERVICE SHUT-DOWNS WITH ALL TRADES INVOLVED ON SITE, AND OBTAIN WRITTEN AUTHORIZATION FROM OWNER 72 HOURS PRIOR TO ANY ELECTRICAL AND/OR TELEPHONE SHUT-DOWN.
9. REMOVE ALL DE-ENERGIZED CONDUCTORS FROM SITE AT COMPLETION OF THE PROJECT.
10. OUTDOOR LIGHTING BRANCH CIRCUIT WIRING SHALL BE MINIMUM #8 AWG CONDUCTORS (XHHW-2), IN MINIMUM 1" DIA. CONDUIT, UNLESS NOTED OTHERWISE.
11. SPARE CONDUITS SHALL INCLUDE PULL STRING AND SHALL BE TERMINATED WITH A CAP.
12. EXCAVATE THE ENTIRE LENGTH OF TRENCH TO PROPERLY SET DUCT ELEVATIONS.



Bidding and Permits: 31 July 2023
 Owner Review: 14 July 2023
 Design Development: 08 May 2023



ELECTRICAL SITE NEW WORK PLAN

SCALE: 1" = 30'

Peter Basso Associates Inc.
 CONSULTING ENGINEERS
 5145 Livernois, Suite 100
 Troy, Michigan 48098-3276
 Tel: 248-679-5666
 Fax: 248-879-0007
 www.PeterBassoAssociates.com
 PBA Project No: 2022.0419



ELECTRICAL SITE NEW WORK PLAN



Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

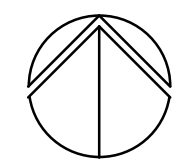
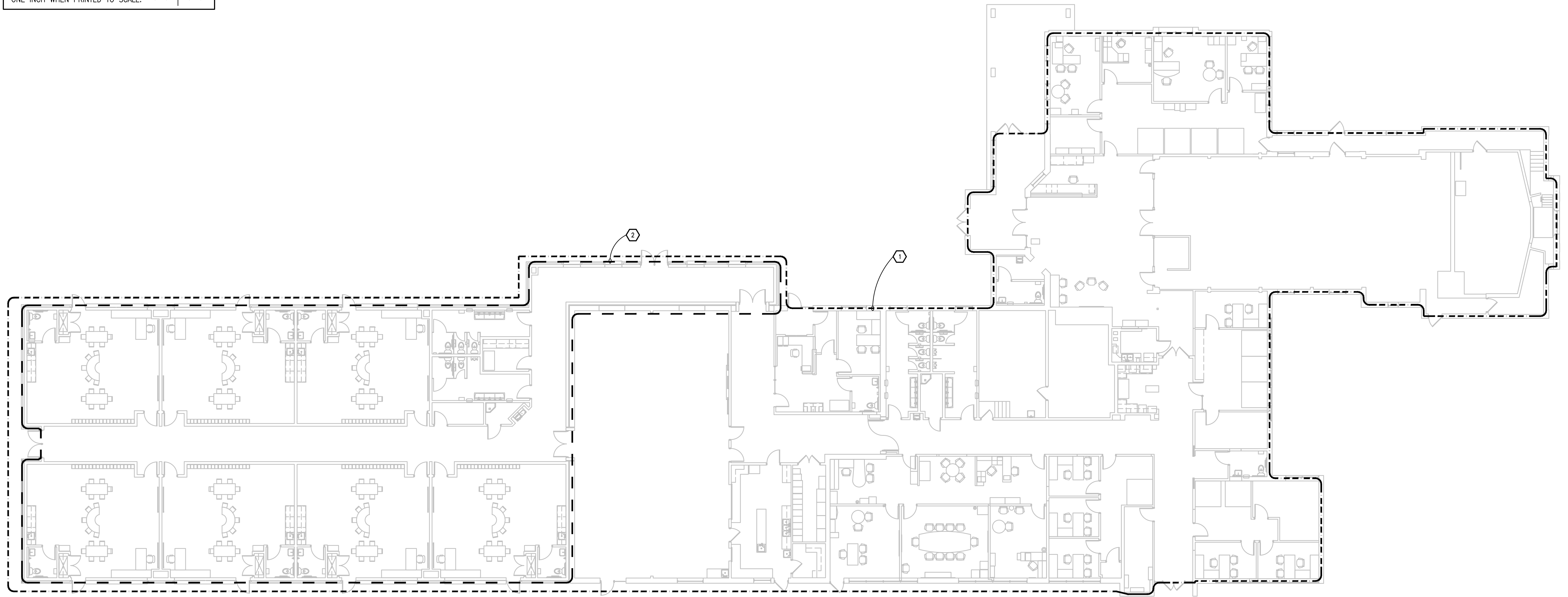
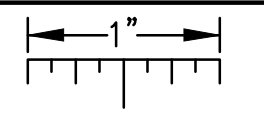
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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



ELECTRICAL COMPOSITE PLAN
SCALE: 3/32" = 1' - 0"

ELECTRICAL GENERAL NOTES:

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

CONSTRUCTION KEY NOTES:

1. THE FIRE ALARM DEVICES SHOWN ON PLAN ARE A PARTIAL REPRESENTATION OF THE FIRE ALARM SYSTEM. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, AND ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.
2. PROVIDE SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS AS REQUIRED FOR CHILDCARE OPERATION.

Bidding and Permits: 31 July 2023

Owner Review: 14 July 2023

Design Development: 08 May 2023

Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
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ELECTRICAL COMPOSITE PLAN

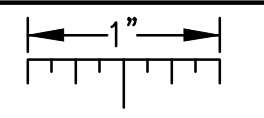


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Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



ELECTRICAL DEMOLITION GENERAL NOTES:

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

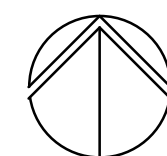
DEMOLITION KEY NOTES:

- A. REMOVE ALL ELECTRICAL DEVICES ON WALLS TO BE DEMOLISHED (LIGHTING, POWER, FIRE ALARM, P/A, ETC.) INCLUDING CEILING MOUNTED LIGHTING. REMOVE LIGHT CONTROLS AND MAINTAIN BRANCH CIRCUIT SERVING LIGHTING FOR RECONNECTION TO NEW LIGHTING. ANY DEVICE LOCATED ON WALL NOT TO BE DEMOLISHED IS TO REMAIN (WALLS TO BE DEMOLISHED ARE SHOWN DASHED). REFER TO NEW WORK PLAN FOR EXTENT OF WORK.
- B. REMOVE LIGHT FIXTURES AND CONTROLS. MAINTAIN BRANCH CIRCUIT FOR REUSE.
- C. REMOVE EXISTING FIRE ALARM SYSTEM COMPLETE (DEVICES AND WIRING). ALL FIRE ALARM DEVICES AND WIRING INDICATED OR NOT INDICATED TO BE REMOVED.
- D. REMOVE LIGHT FIXTURES. MAINTAIN CONTROLS AND BRANCH CIRCUIT FOR REUSE.
- E. REMOVE PANELBOARD FOR RELOCATION. EXISTING LOADS STILL IN USE SHALL BE RELOCATED.
- F. MECHANICAL EQUIPMENT BEING REPLACED. MAINTAIN BRANCH CIRCUIT FOR REUSE.

Bidding and Permits: 31 July 2023

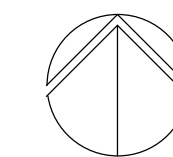
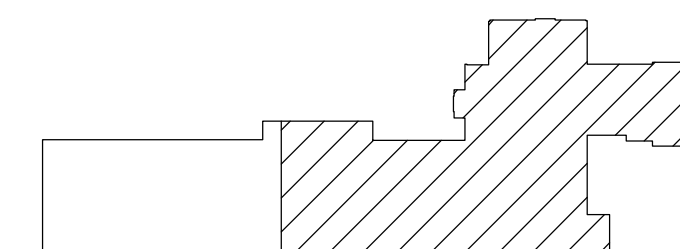
Owner Review: 14 July 2023

Design Development: 08 May 2023



ELECTRICAL DEMOLITION PLAN (PART A)

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



KEY PLAN

NO SCALE

Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

ELECTRICAL DEMOLITION PLAN (PART A)

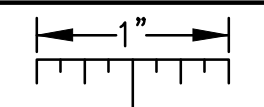


Crestwood School District
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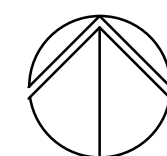
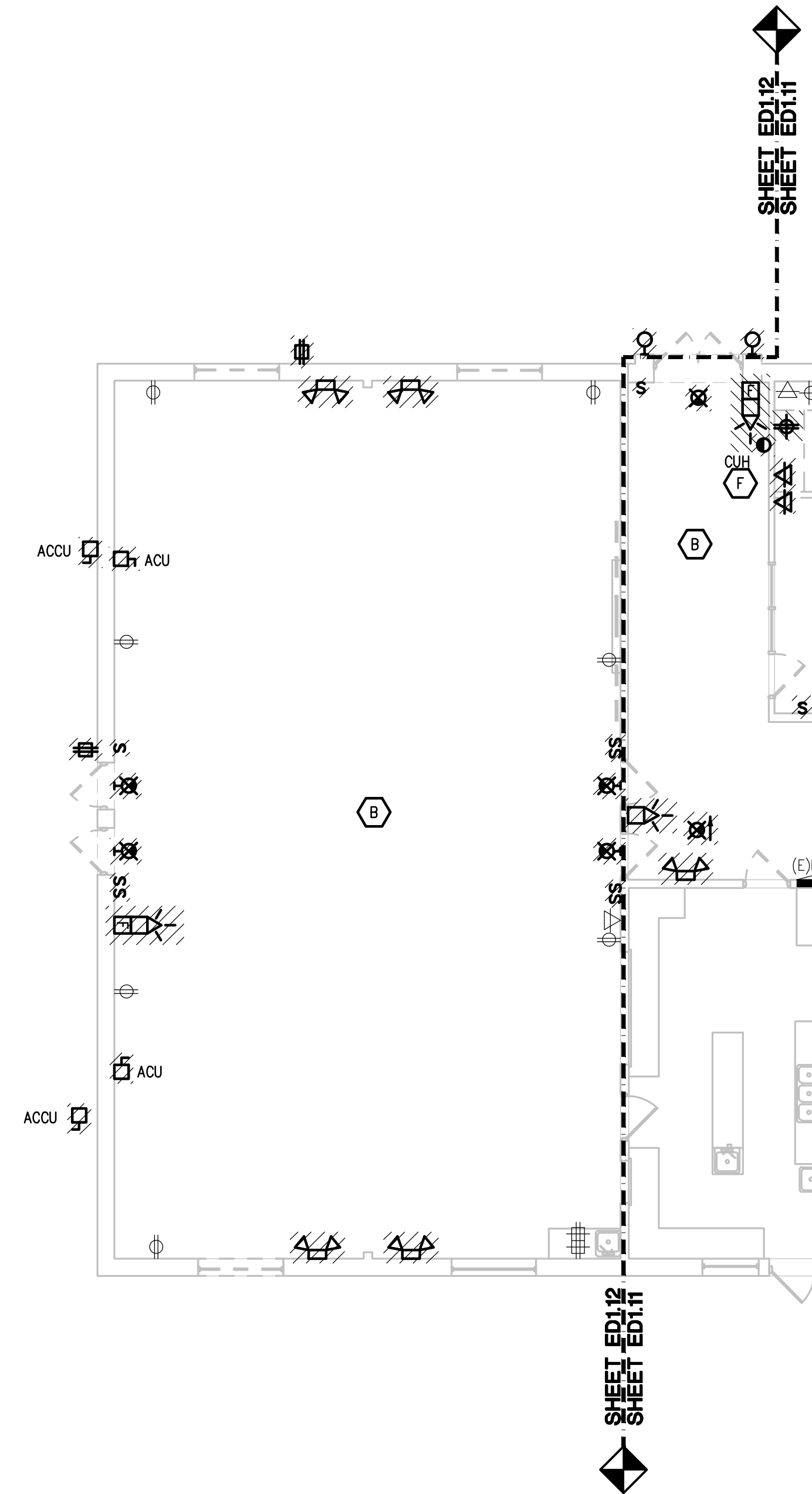


ELECTRICAL DEMOLITION GENERAL NOTES:

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

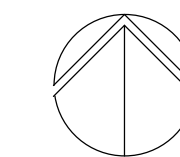
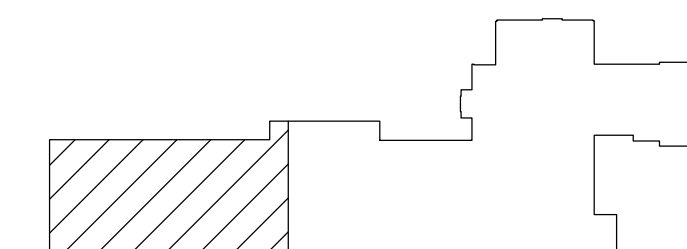
DEMOLITION KEY NOTES:

- A. REMOVE ALL ELECTRICAL DEVICES ON WALLS TO BE DEMOLISHED (LIGHTING, POWER, FIRE ALARM, P/A, ETC.) INCLUDING CEILING MOUNTED LIGHTING. REMOVE LIGHT CONTROLS AND MAINTAIN BRANCH CIRCUIT SERVING LIGHTING FOR RECONNECTION TO NEW LIGHTING. ANY DEVICE LOCATED ON WALL NOT TO BE DEMOLISHED IS TO REMAIN (WALLS TO BE DEMOLISHED ARE SHOWN DASHED). REFER TO NEW WORK PLAN FOR EXTENT OF WORK.
- B. REMOVE LIGHT FIXTURES AND CONTROLS. MAINTAIN BRANCH CIRCUIT FOR REUSE.
- C. REMOVE EXISTING FIRE ALARM SYSTEM COMPLETE (DEVICES AND WIRING). ALL FIRE ALARM DEVICES AND WIRING INDICATED OR NOT INDICATED TO BE REMOVED.
- D. REMOVE LIGHT FIXTURES. MAINTAIN CONTROLS AND BRANCH CIRCUIT FOR REUSE.
- E. REMOVE PANELBOARD FOR RELOCATION. EXISTING LOADS STILL IN USE SHALL BE RELOCATED.
- F. MECHANICAL EQUIPMENT BEING REPLACED. MAINTAIN BRANCH CIRCUIT FOR REUSE.



ELECTRICAL DEMOLITION PLAN (PART B)

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



KEY PLAN

NO SCALE

Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
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www.PeterBassoAssociates.com
PBA Project No: 2022.0419



ELECTRICAL DEMOLITION PLAN (PART B)

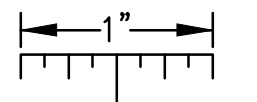


Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

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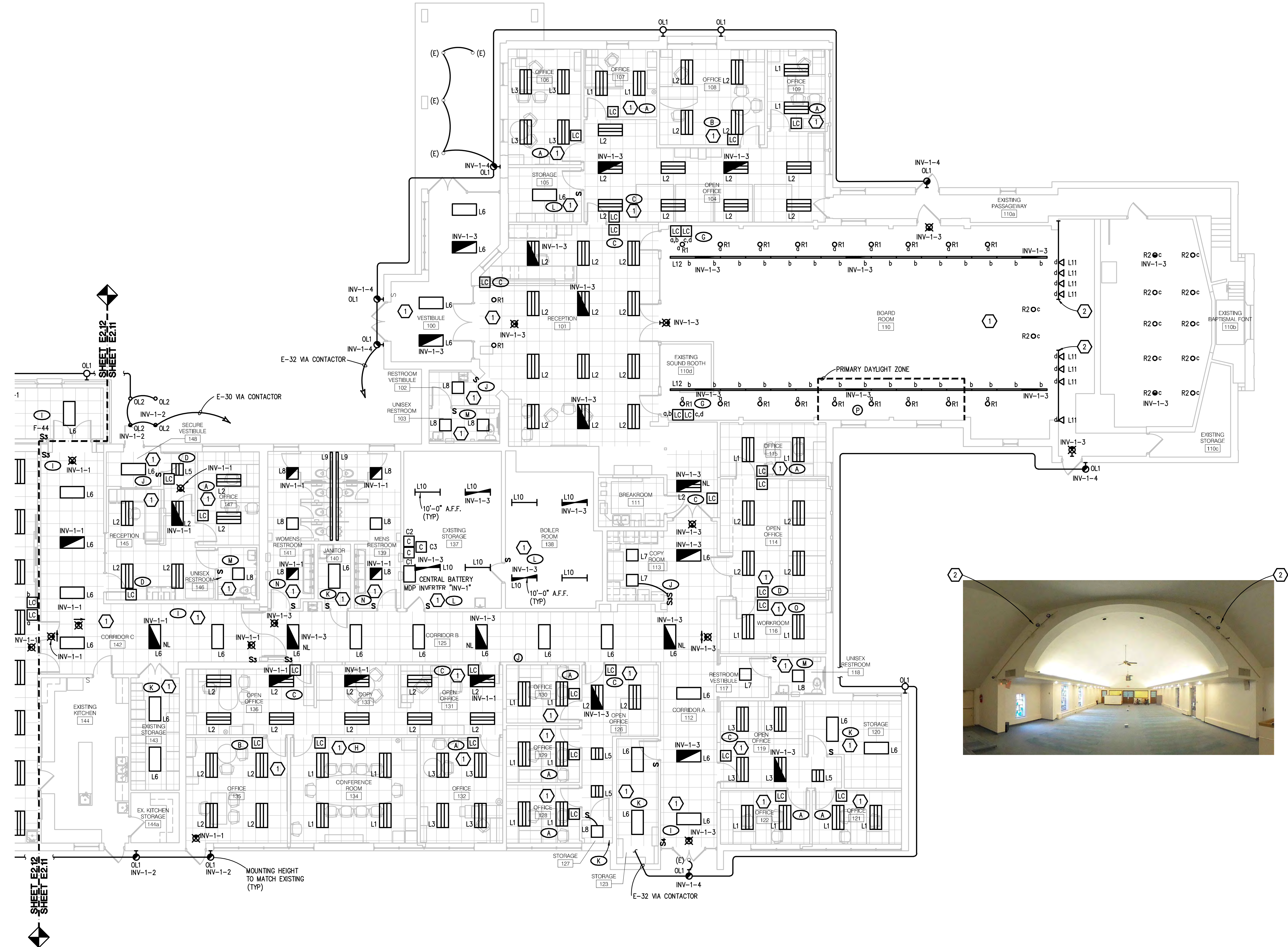


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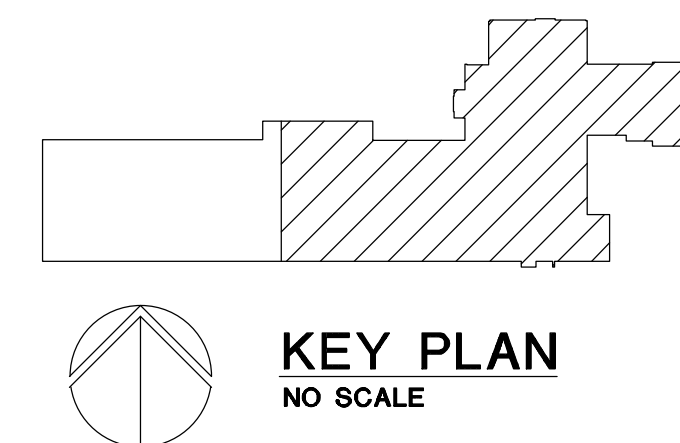
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CONSTRUCTION KEY NOTES:

1. CIRCUIT LIGHTING TO MAINTAINED BRANCH CIRCUIT. MODIFY SWITCH LEG AS REQUIRED FOR WORK INDICATED.
2. MOUNT NEW TRACK LIGHTING IN SAME LOCATION AS REMOVED.



LIGHTING PLAN (PART A)
SCALE: 1/8" = 1'-0"



KEY PLAN
NO SCALE

LIGHTING PLAN (PART A)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

E2.11

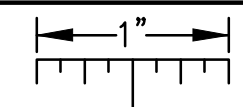
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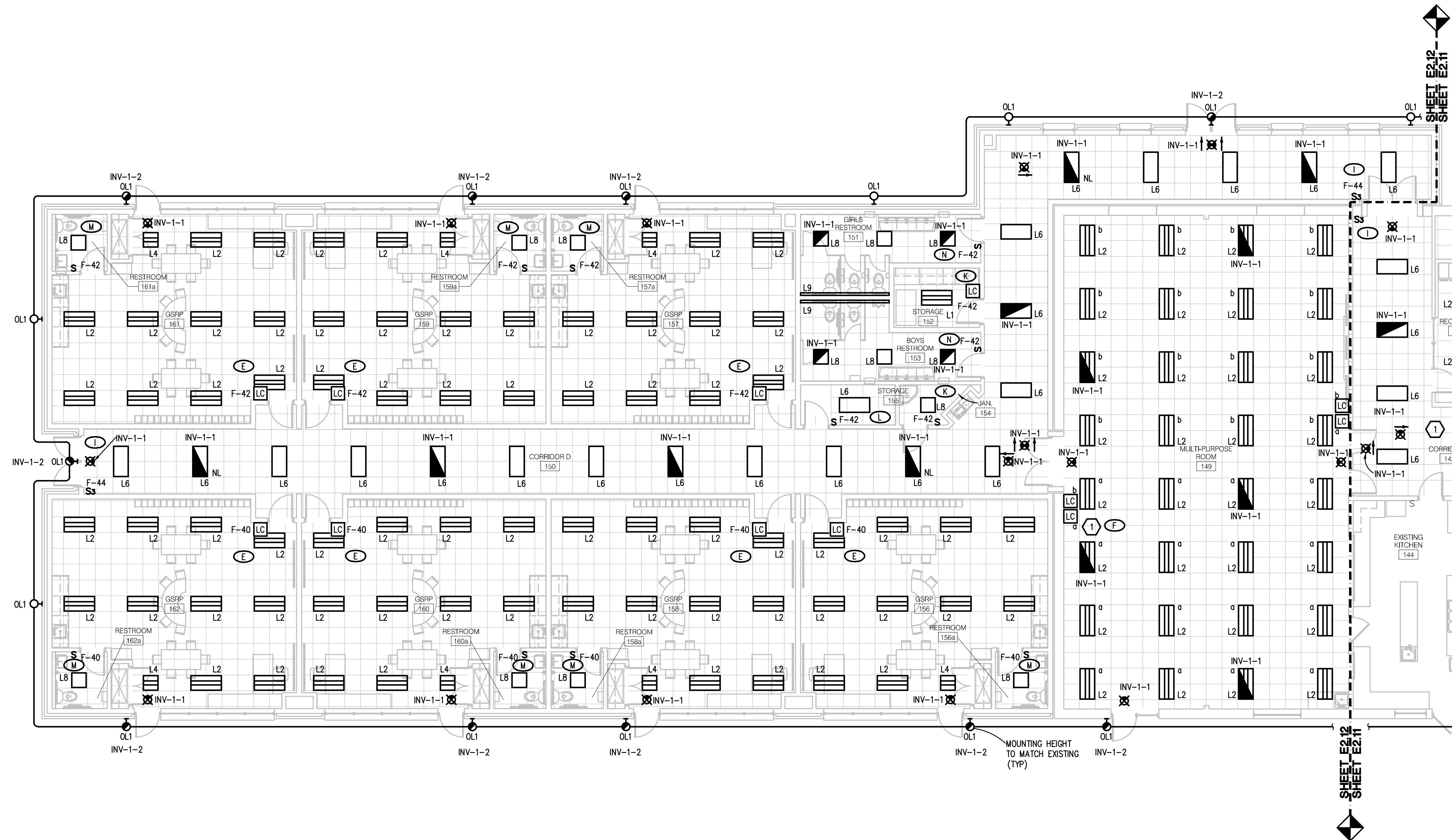


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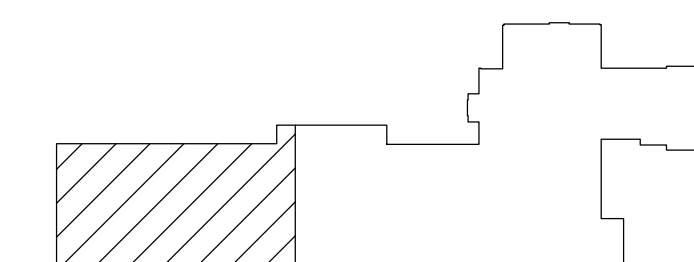
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MOUNTING HEIGHT TO MATCH EXISTING (TYP)



LIGHTING PLAN (PART B)
SCALE: 1/8" = 1'-0"



KEY PLAN
NO SCALE

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LIGHTING PLAN (PART B)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

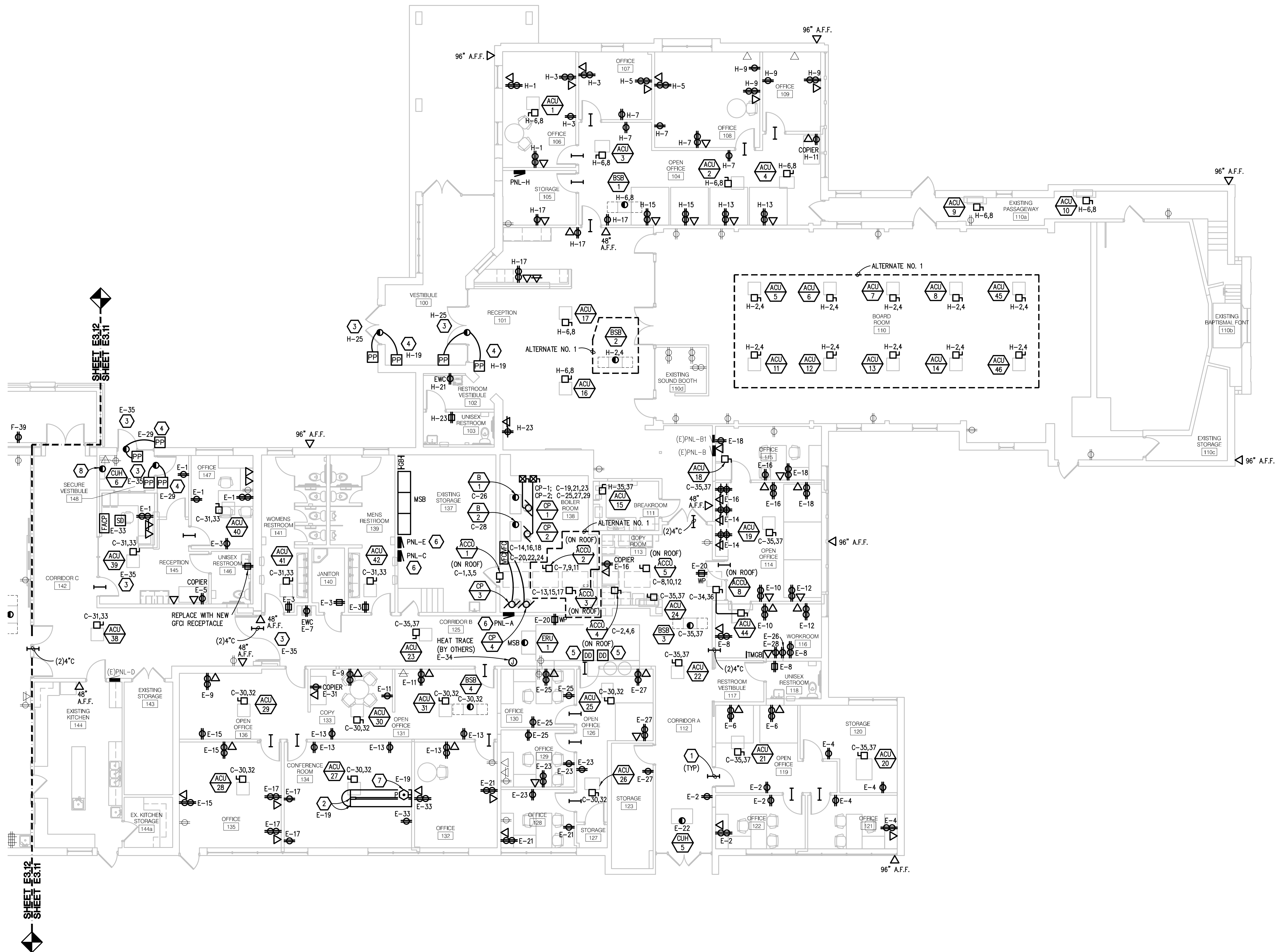
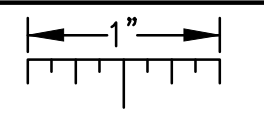
Project No. 3221

E2.12

Bidding and Permits: 31 July 2023
Owner Review: 14 July 2023
Design Development: 08 May 2023

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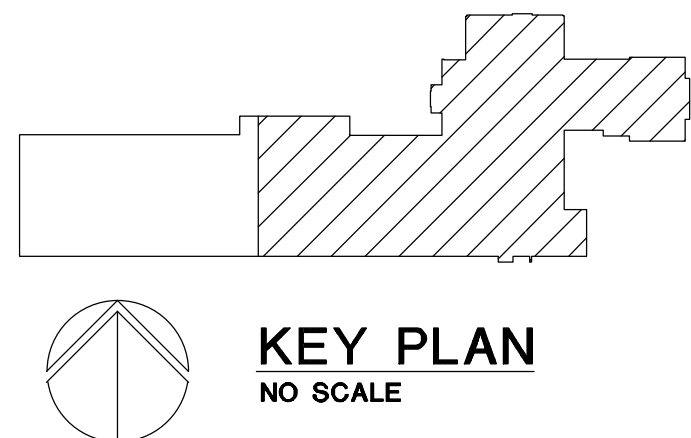
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2. PROVIDE CONNECTRAC 2.7 UNDER-CARPET WIREWAY SYSTEM. PROVIDE (3) 48" WIREWAY SEGMENTS. FIELD VERIFY EXACT LOCATION AND FIELD OUT SEGMENTS AS REQUIRED. PROVIDE END COMPONENTS KIT. PROVIDE (2) DUPLEX RECEPTACLES AND (2) TELECOMMUNICATION FLOOR OUTLETS.
3. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION AND ACCESS CONTROL DOOR DIAGRAM(S) ON E7 SERIES FOR RACEWAY AND BACK BOX REQUIREMENTS FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL RACEWAYS AND BACK BOXES REQUIRED. PRIOR TO ROUGH-IN, COORDINATE ALL REQUIRED DEVICES AND LOCATIONS WITH SECURE ENTRIES DETAILS ON SHEET T7.01.
4. PUSH PAD FOR AUTOMATIC DOORS. ALL DOOR AND PUSH PAD HARDWARE IS PROVIDED BY DOOR CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL PUSH PADS AND PROVIDE CONDUIT AND WIRE FOR COMPLETE OPERATION. COORDINATE WITH DOOR CONTRACTOR. PUSH PAD BOX IS DOUBLE GANG.
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POWER PLAN (PART A)
SCALE: 1/8" = 1' - 0"



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EHRESMAN ARCHITECTS
ehresmanarchitects.com

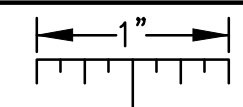
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

E3.11

g:\2022\2022-04-19-00\CAD\2022-04-19-E3-PP1.dwg, E3.11, 7/28/2023 1:45:17 PM, Dominic P. Mocerri, Peter Basso Associates Inc.

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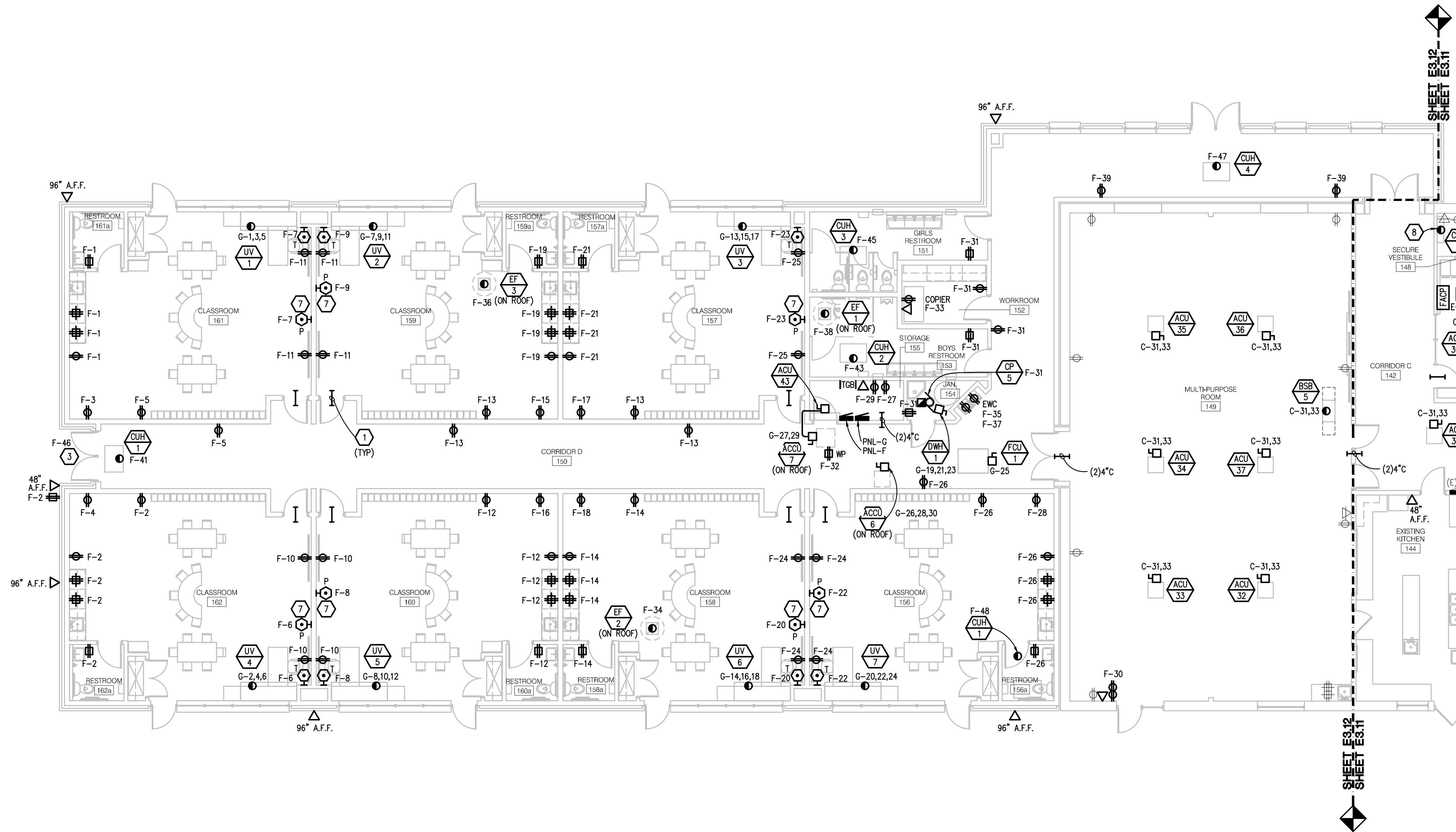


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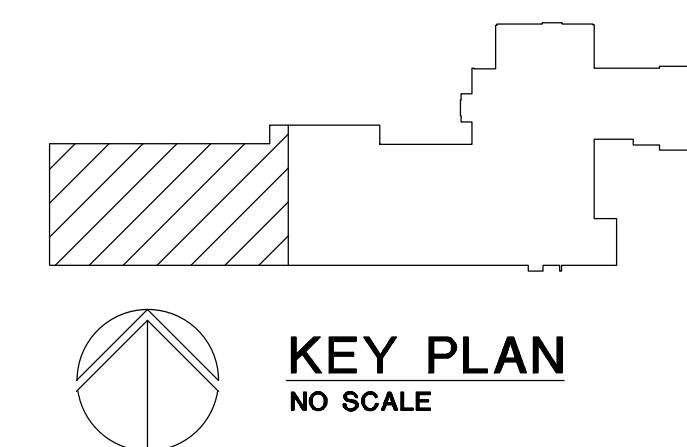
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POWER PLAN (PART B)
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POWER PLAN (PART B)



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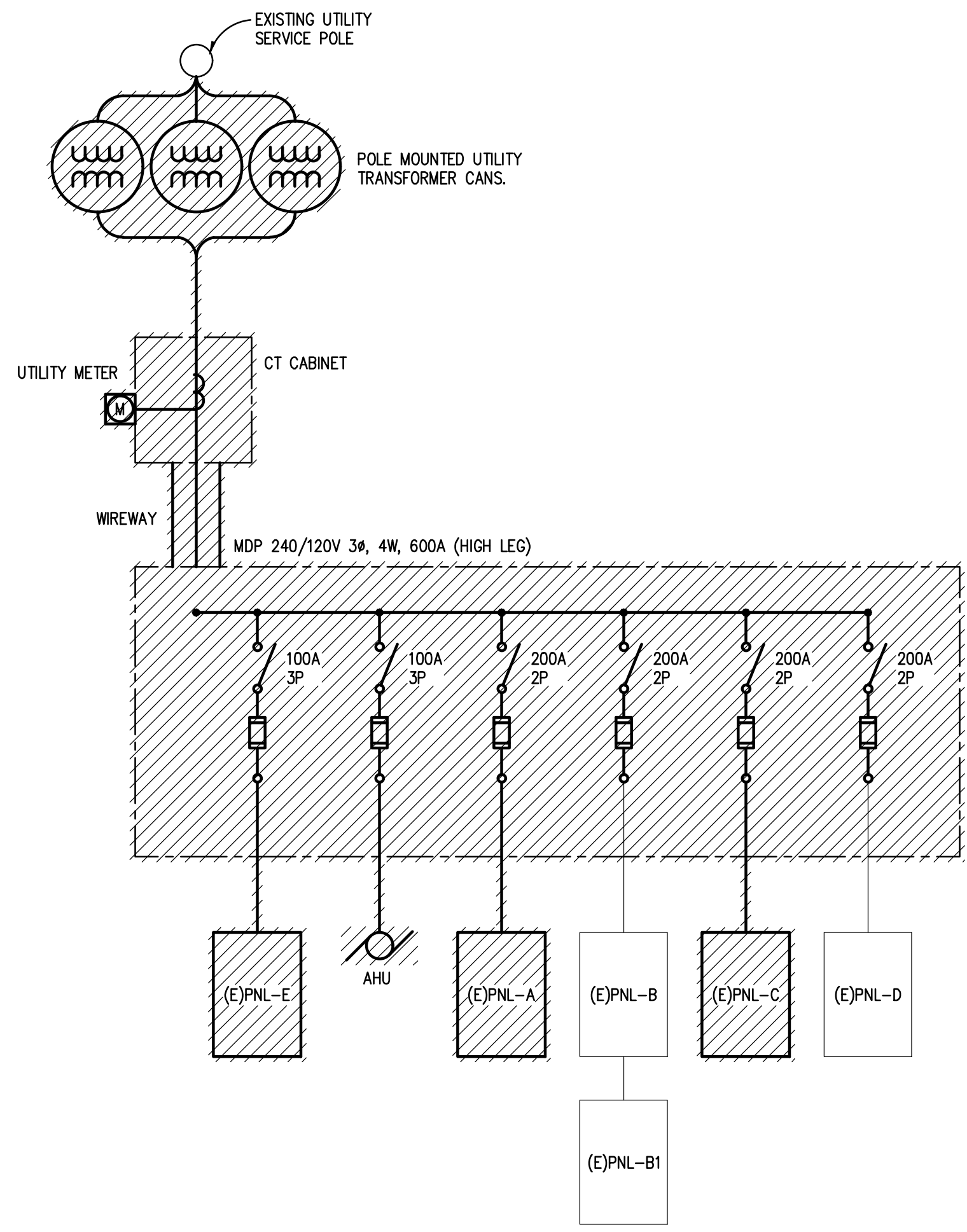
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- FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- BASIS OF DESIGN IS SQUARE D DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT FROM OTHER APPROVED MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LAYOUT AND CLEARANCE REQUIREMENTS IN ALL SPACES CONTAINING ELECTRICAL EQUIPMENT AND PROVIDE EQUIPMENT MEETING THE SPECIFICATIONS AND ACHIEVING CODE REQUIRED CLEARANCES WITHIN THE SPACE PROVIDED.
- SELECTIVE COORDINATION (PER NEC ARTICLES 700.32 AND 701.27) IS BASED ON SQUARE D DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. ELECTRICAL CONTRACTOR SHALL SUBMIT SELECTIVE COORDINATION STUDY WITH TIME CURRENT CHARACTERISTIC CURVES (AND TABLES FOR TESTED PAIR INSTANTANEOUS COORDINATION) FOR THE EMERGENCY SYSTEMS. ELECTRICAL CONTRACTORS SHALL RECEIVE APPROVED SHOP DRAWINGS BACK FROM ENGINEER OF RECORD PRIOR TO PURCHASING OR INSTALLING ANY ELECTRICAL DISTRIBUTION EQUIPMENT. BREAKERS MUST BE COORDINATED WITH AUTOMATIC TRANSFER SWITCHES 3-CYCLE WITHSTAND RATING. ALTERNATE MANUFACTURERS SHALL MEET SELECTIVE COORDINATION CRITERIA AT NO ADDITIONAL COST TO THE PROJECT.
- VARIABLE FREQUENCY CONTROLLERS (VFC) FURNISHED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL INSTALL VFC, PROVIDE POWER FEEDER FROM DISTRIBUTION EQUIPMENT TO VFC AND PROVIDE POWER FEEDER FROM VFC TO MOTOR. REFER TO SPECIFICATIONS FOR APPLICATION OF VFC POWER CABLE FROM VFC TO MOTOR.



DEMOLITION - ONE LINE DIAGRAM
NO SCALE

SHORT-CIRCUIT CALCULATIONS

FAULT POINT	PANEL/ TRANSFORMER	SOURCE FAULT POINT	SOURCE Isc	CONDUIT TYPE	CONDUCTOR MATERIAL	CONDUCTOR OR BUS SIZE	'c' VALUE	E (V)	L (FT)	XFMR kVA	XFMR %Z	f	M	Isc
1	UTILITY XFMR							208		300	1.6			52,046
2	MSB	1	52,046	NM	CU	3 SETS OF 600 KCML	28033	208	60.0			0.309	0.76	39,754
3	PNL-A	2	39,754	M	CU	1 SET OF 3	4774	208	60.0			4.160	0.19	7,704
4	PNL-C	2	39,754	M	CU	1 SET OF 500 KCML	22185	208	20.0			0.298	0.77	30,617
5	PNL-E	2	39,754	M	CU	1 SET OF 3/0	12844	208	20.0			0.515	0.66	26,232
6	PNL-F	2	39,754	M	CU	1 SET OF 3/0	12844	208	240.0			6.186	0.14	5,533
7	PNL-G	2	39,754	M	CU	1 SET OF 500 KCML	22185	208	240.0			3.581	0.22	8,678
8	PNL-H	2	39,754	M	CU	1 SET OF 3	4774	208	185.0			12.828	0.07	2,875
9	ERU-1	2	39,754	M	CU	1 SET OF 1/0	8925	208	75.0			2.782	0.26	10,512

THE FOLLOWING THREE PHASE CALCULATIONS ARE BASED ON THE "POINT-BY-POINT" METHOD WHERE:

$I_{sc} = I_{sc} \times M$
 $M = 1/(1+f)$

CONDUCTOR OR BUS
 $f = 1.732 \times L \times I_{sc}$
 $C \times n \times E$

UTILITY XFMR:
 $I_{sc} = kVA \times 100,000$
 $E \times 1.732 \times \%Z$

XFMR:
 $f = \frac{I_p(sc) \times E_p \times 1.73 \times \%Z}{100,000 \times kVA}$
 $I_p(sc) = \frac{E_p \times M \times I_p(sc)}{E_s}$

L = LENGTH (FT) OF CONDUCTOR, C = CONSTANT FROM TABLE, n = NUMBER OF CONDUCTORS PER PHASE
 Isc = AVAILABLE SHORT CIRCUIT (A), E = VOLTAGE OF CIRCUIT

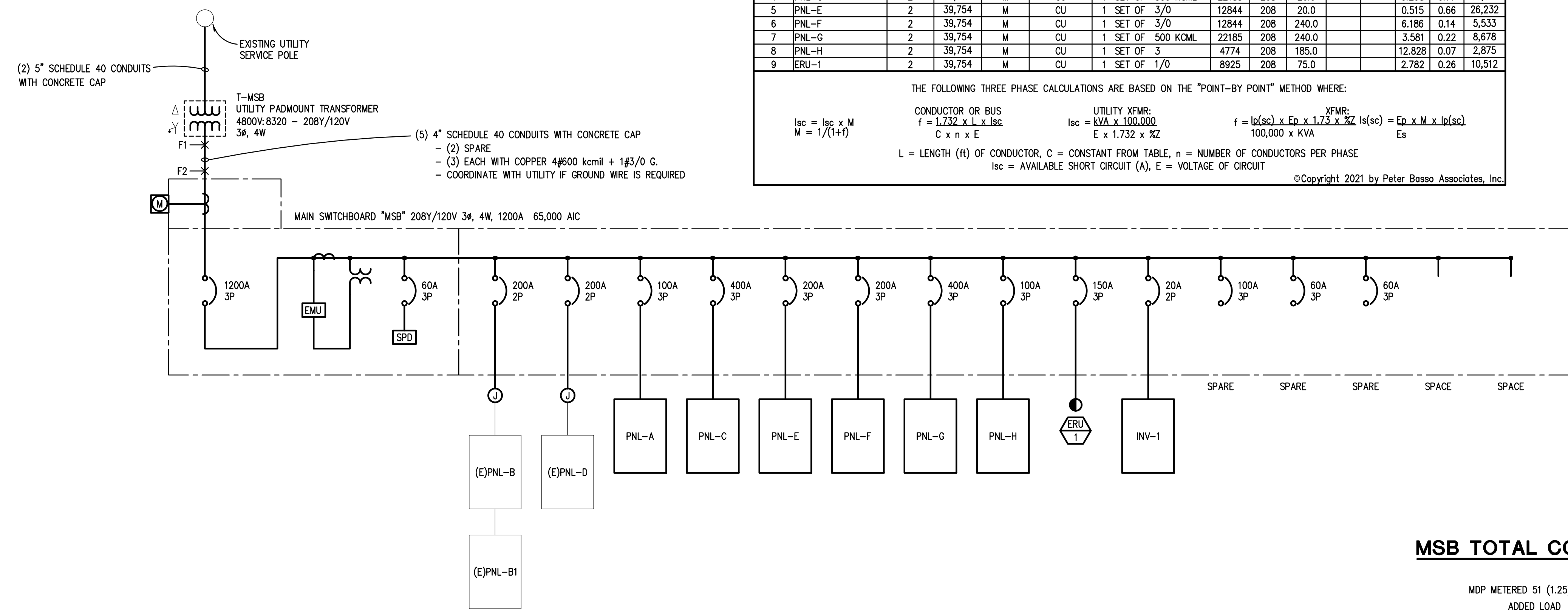
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VOLTAGE DROP

FEEDER	TOTAL LOAD (A)	WIRE IMPEDANCE	% VOLTAGE DROP
UTILITY XFMR	NA	NA	NA
MSB	877	0.0401	0.59
PNL-A	37	0.2436	0.45
PNL-C	246	0.0499	0.20
PNL-E	55	0.0945	0.09
PNL-F	76	0.0945	1.44
PNL-G	187	0.0499	1.87
PNL-H	32	0.2436	1.20
ERU-1	96.5	0.1310	0.79

TABLE CALCULATIONS BASED ON THE FOLLOWING:
 * TABLE 9, 2017 NEC
 * UNCOATED CU/AL WIRE, 600V, 75 DEG C
 * THREE SINGLE CONDUCTORS IN CONDUIT
 * 3PH VD (L-L) = $Z \times (FT/100) \times I \times 3$

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NEW WORK - ONE LINE DIAGRAM
NO SCALE

MSB TOTAL CONNECTED LOAD CALCULATION

MDP METERED 51 (1.25)	64 KVA
ADDED LOAD	
PNL-A	14 KVA
PNL-C	77 KVA
PNL-E	20 KVA
PNL-F	27 KVA
PNL-G	67 KVA
PNL-H	12 KVA
ERU-1	35 KVA
TOTAL CONNECTED LOAD	316 KVA

Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

ONE LINE DIAGRAM

EHRESMAN ARCHITECTS
ehresmanarchitects.com

Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

E5.01

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PNL-G														
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	NC		NEW	20	1693	3386			1693		NEW		NC	2
3	NC	UV - 1	NEW	20	1693	3386			1693	20	NEW	UV - 4	NC	4
5	NC		NEW	20	1693			3386	1693		NEW		NC	6
7	NC		NEW	20	1693	3386			1693		NEW		NC	8
9	NC	UV - 2	NEW	20	1693	3386			1693	20	NEW	UV - 5	NC	10
11	NC		NEW	20	1693			3386	1693		NEW		NC	12
13	NC		NEW	20	1693	3386			1693		NEW		NC	14
15	NC	UV - 3	NEW	20	1693	3386			1693	20	NEW	UV - 6	NC	16
17	NC		NEW	20	1693			3386	1693		NEW		NC	18
19	NC		NEW	100	9006	10699			1693		NEW		NC	20
21	NC	DWH - 1	NEW	100	9006	10699			1693	20	NEW	UV - 7	NC	22
23	NC		NEW	100	9006			10699	1693		NEW		NC	24
25	NC	FCU - 1	NEW	25	2138	4696			2558		NEW		NC	26
27	NC		NEW	15	1254			3812	2558	35	NEW	ACCU - 6	NC	28
29	NC	ACCU - 7 & ACU - 43	NEW	15	1254			3812	2558		NEW		NC	30
31	SPARE		NEW	20						20	NEW	SPARE		32
33	SPARE		NEW	20						20	NEW	SPARE		34
35	SPARE		NEW	20						20	NEW	SPARE		36
37	SPARE		NEW	20						20	NEW	SPARE		38
39	SPARE		NEW	20						20	NEW	SPARE		40
41	SPARE		NEW	20						20	NEW	SPARE		42
43	SPARE		NEW	20						20	NEW	SPARE		44
45	SPARE		NEW	20						20	NEW	SPARE		46
47	SPARE		NEW	20						20	NEW	SPARE		48
49	SPARE		NEW	20						20	NEW	SPARE		50
51	SPARE		NEW	20						20	NEW	SPARE		52
53	SPARE		NEW	20						20	NEW	SPARE		54
55	SPARE		NEW	20						20	NEW	SPARE		56
57	SPARE		NEW	20						20	NEW	SPARE		58
59	SPARE		NEW	20						20	NEW	SPARE		60
						2555.3	2466.9	2466.9						
						ØA	ØB	ØC						

PANELBOARD INFORMATION		BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR		CALCULATED LOAD		FEEDER AND OVERCURRENT SIZING		NOTES
VOLTAGE:	208Y/120	CONTINUOUS LOAD (C)	100%	100%	125%					
BUS AMPACITY:	400A	ELECTRIC HEAT (E)	100%	100%	100%					
MAIN TYPE:	MLO	NON-CONTINUOUS LOAD (NC)	74891	100%	74891	100%	74891			
MINIMUM A.I.C.:	10,000	KITCHEN LOAD (K)		100%		100%				
MOUNTING:	SURFACE	RECEPTACLE BASE LOAD (R)		100%		100%				
		RECEPTACLE DEMAND LOAD (R)		50%		100%				
		LIGHTING LOAD (L)	1722	100%	1722	125%	2153			
		ADDITIONAL TRACK LIGHTING LOAD				100%				
		MOTORS, HIGHEST LOAD (MH)		125%		100%				
		MOTORS, REMAINING LOAD (M)		100%		100%				
		TOTAL (KVA):			1.72					
		TOTAL (AMPS):			8			TOTAL (AMPS):	10	

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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PNL-H														
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	R	RECEPTACLE	NEW	20	540	1310			770		NEW		NC	2
3	R	RECEPTACLE	NEW	20	900			1670	770	15	NEW	BSB - 2, ACU-5,6,7,8,11,12,13,14,45,46	NC	4
5	R	RECEPTACLE	NEW	20	720			1048	328		NEW		NC	6
7	R	RECEPTACLE	NEW	20	1080	1408			328	15	NEW	BSB - 1, ACU - 1,2,3,4,9,10,16,17	NC	8
9	R	RECEPTACLE	NEW	20	1080			1080		20	NEW	SPARE		10
11	R	RECEPTACLE	NEW	20	1000			1000		20	NEW	SPARE		12
13	R	RECEPTACLE	NEW	20	720	720				20	NEW	SPARE		14
15	R	RECEPTACLE	NEW	20	720			720		20	NEW	SPARE		16
17	R	RECEPTACLE	NEW	20	900			900		20	NEW	SPARE		18
19	NC	DOOR HARDWARE	NEW	20	250			250		20	NEW	SPARE		20
21	NC	EWC	GFCI	20	1000			1000		20	NEW	SPARE		22
23	R	RECEPTACLE	NEW	20	360			360		20	NEW	SPARE		24
25	NC	DOOR CONTROLS	NEW	20	200	200				20	NEW	SPARE		26
27	SPARE		NEW	20						20	NEW	SPARE		28
29	SPARE		NEW	20						20	NEW	SPARE		30
31	SPARE		NEW	20						20	NEW	SPARE		32
33	SPARE		NEW	20						20	NEW	SPARE		34
35	SPARE		NEW	20						20	NEW	SPARE		36
37	SPARE		NEW	20						20	NEW	SPARE		38
39	SPARE		NEW	20						20	NEW	SPARE		40
41	SPARE		NEW	20						20	NEW	SPARE		42
						3888	4470	3308						
						ØA	ØB	ØC						

PANELBOARD INFORMATION		BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR		CALCULATED LOAD		FEEDER AND OVERCURRENT SIZING		NOTES
VOLTAGE:	208Y/120	CONTINUOUS LOAD (C)	100%	100%	125%					
BUS AMPACITY:	100A	ELECTRIC HEAT (E)	100%	100%	100%					
MAIN TYPE:	MLO	NON-CONTINUOUS LOAD (NC)	3646	100%	3646	100%	3646			
MINIMUM A.I.C.:	10,000	KITCHEN LOAD (K)		100%		100%				
MOUNTING:	SURFACE	RECEPTACLE BASE LOAD (R)		100%		100%				
		RECEPTACLE DEMAND LOAD (R)		50%		100%				
		LIGHTING LOAD (L)		100%		100%				
		ADDITIONAL TRACK LIGHTING LOAD				100%				
		MOTORS, HIGHEST LOAD (MH)		125%		100%				
		MOTORS, REMAINING LOAD (M)		100%		100%				
		TOTAL (KVA):			11.67			TOTAL (AMPS):	32	
		TOTAL (AMPS):			32			TOTAL (AMPS):	32	

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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INV-1														
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	L	LIGHTING	NEW	20	676	981			305	20	NEW	EXTERIOR LIGHTING	L	2
3	L	LIGHTING	NEW	20	666			741	75	20	NEW	EXTERIOR LIGHTING	L	4
5	SPARE		NEW	20						20	NEW	SPARE		6
7	SPARE		NEW	20						20	NEW	SPARE		8
9	SPARE		NEW	20						20	NEW	SPARE		10
						981	741							
						ØA	ØC							

PANELBOARD INFORMATION		BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR		CALCULATED LOAD		FEEDER AND OVERCURRENT SIZING		NOTES
VOLTAGE:	120/208-10	CONTINUOUS LOAD (C)	100%	100%	125%					INTEGRAL TO INV-1
BUS AMPACITY:		ELECTRIC HEAT (E)	100%	100%	100%					
MAIN TYPE:		NON-CONTINUOUS LOAD (NC)		100%		100%				
MINIMUM A.I.C.:		KITCHEN LOAD (K)		100%		100%				
MOUNTING:		RECEPTACLE BASE LOAD (R)		100%		100%				
		RECEPTACLE DEMAND LOAD (R)		50%		100%				
		LIGHTING LOAD (L)	1722	100%	1722	125%	2153			
		ADDITIONAL TRACK LIGHTING LOAD				100%				
		MOTORS, HIGHEST LOAD (MH)		125%		100%				
		MOTORS, REMAINING LOAD (M)		100%		100%				
		TOTAL (KVA):			1.72					
		TOTAL (AMPS):			8			TOTAL (AMPS):	10	

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48068-3276
Tel: 248-679-5666
Fax: 248-679-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

PANEL SCHEDULES

ehresmanarchitects.com

Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

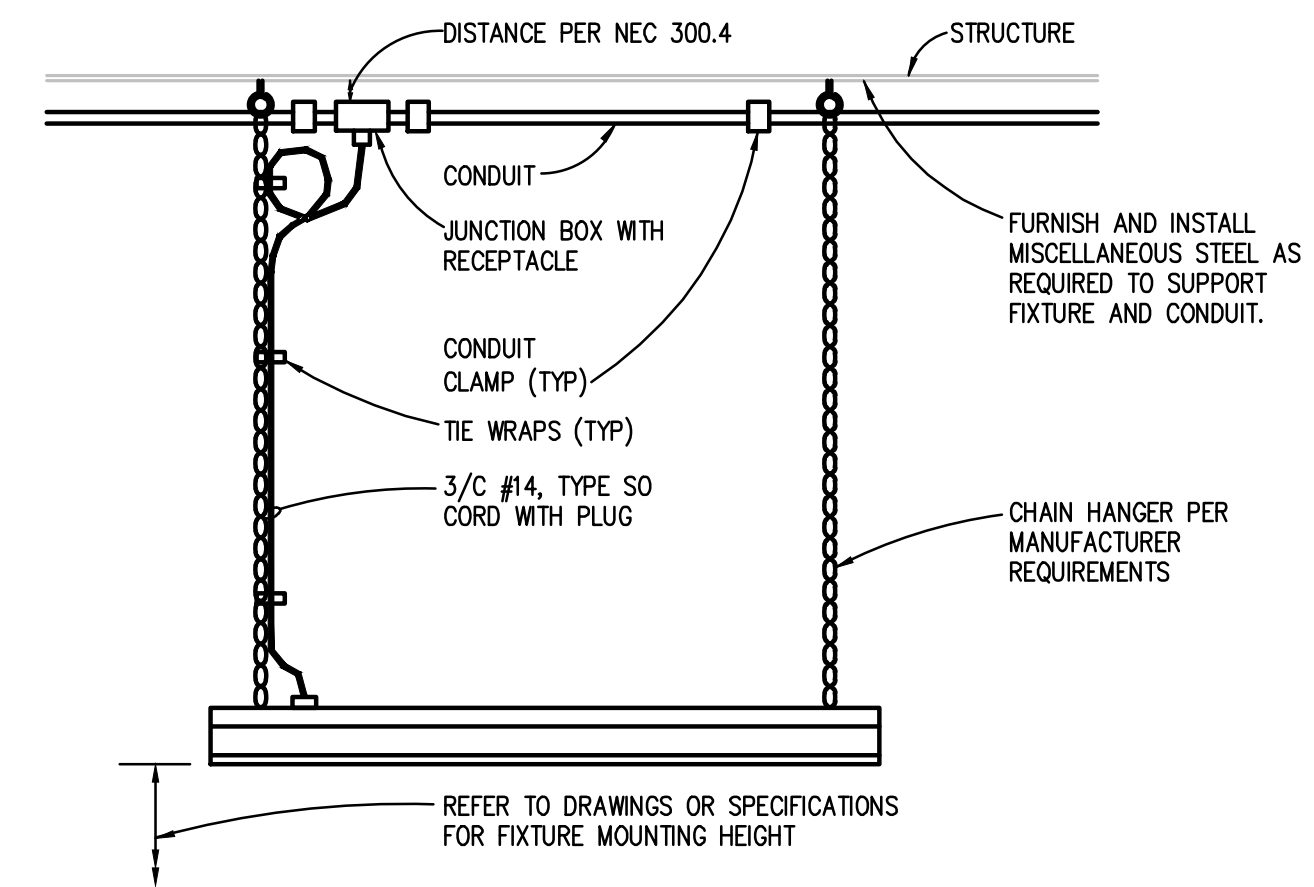
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INTERIOR LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	VOLTAGE	OUTPUT	MANUFACTURERS
L1	RECESSED 2'X4', LED TROFFER: ARCHITECTURAL STYLE CENTER BASKET, MAX 4" DEEP HOUSING WITH A POLYESTER POWDER COAT MATTE WHITE FINISH, ACRYLIC DIFFUSER WITH ROUND ACCENT STRIP, 0-10 VOLT 10% DIMMING. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	4,800 LUMENS 4000K 80CRI MINIMUM	1. LITHONIA BLT SERIES 2. METALUX CRUZE SERIES 3. COLUMBIA LCAT SERIES
L2	RECESSED 2'X4', LED TROFFER: ARCHITECTURAL STYLE CENTER BASKET, MAX 4" DEEP HOUSING WITH A POLYESTER POWDER COAT MATTE WHITE FINISH, ACRYLIC DIFFUSER WITH ROUND ACCENT STRIP, 0-10 VOLT 10% DIMMING. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	4,000 LUMENS 4000K 80CRI MINIMUM	1. LITHONIA BLT SERIES 2. METALUX CRUZE SERIES 3. COLUMBIA LCAT SERIES
L3	RECESSED 2'X4', LED TROFFER: ARCHITECTURAL STYLE CENTER BASKET, MAX 4" DEEP HOUSING WITH A POLYESTER POWDER COAT MATTE WHITE FINISH, ACRYLIC DIFFUSER WITH ROUND ACCENT STRIP, 0-10 VOLT 10% DIMMING. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	3,000 LUMENS 4000K 80CRI MINIMUM	1. LITHONIA BLT SERIES 2. METALUX CRUZE SERIES 3. COLUMBIA LCAT SERIES
L4	RECESSED 2'X2', LED TROFFER: ARCHITECTURAL STYLE CENTER BASKET, MAX 4" DEEP HOUSING WITH A POLYESTER POWDER COAT MATTE WHITE FINISH, ACRYLIC DIFFUSER WITH ROUND ACCENT STRIP, 0-10 VOLT 10% DIMMING. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	4,000 LUMENS 4000K 80CRI MINIMUM	1. LITHONIA BLT SERIES 2. METALUX CRUZE SERIES 3. COLUMBIA LCAT SERIES
L5	RECESSED 2'X2', LED TROFFER: ARCHITECTURAL STYLE CENTER BASKET, MAX 4" DEEP HOUSING WITH A POLYESTER POWDER COAT MATTE WHITE FINISH, ACRYLIC DIFFUSER WITH ROUND ACCENT STRIP, 0-10 VOLT 10% DIMMING. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	3,300 LUMENS 4000K 80CRI MINIMUM	1. LITHONIA BLT SERIES 2. METALUX CRUZE SERIES 3. COLUMBIA LCAT SERIES
L6	RECESSED 2'X4' LED TROFFER: ACRYLIC DIFFUSER WITH SATIN WHITE LENS. WHITE STEEL HOUSING. 0-10 VOLT 10% DIMMING. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	3,000 LUMENS 4000K 80CRI MINIMUM	1. LITHONIA GTL SERIES 2. METALUX GRLED SERIES 3. COLUMBIA LJT SERIES
L7	RECESSED 2'X2' LED TROFFER: ACRYLIC DIFFUSER WITH SATIN WHITE LENS. WHITE STEEL HOUSING. 0-10 VOLT 10% DIMMING. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	3,300 LUMENS 4000K 80CRI MINIMUM	1. LITHONIA GTL SERIES 2. METALUX GRLED SERIES 3. COLUMBIA LJT SERIES
L8	RECESSED 2'X2' LED TROFFER: ACRYLIC DIFFUSER WITH SATIN WHITE LENS. WHITE STEEL HOUSING. 0-10 VOLT 10% DIMMING. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	2,000 LUMENS 4000K 80CRI MINIMUM	1. LITHONIA GTL SERIES 2. METALUX GRLED SERIES 3. COLUMBIA LJT SERIES
L9	RECESSED CONTINUOUS ROW LINEAR LED FIXTURE: HIGH REFLECTANCE WITH POWDER COAT FINISH. 0-10 VOLT 10% DIMMING. FIXTURE LENGTHS AS INDICATED ON PLAN. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	375 MIN. LUMENS PER FOOT 4000K 80 CRI MINIMUM	1. NULITE REGOLO 4 SERIES 2. PRUDENTIAL BIONIC 4 SERIES 3. FINELITE HP4 SERIES
L10	LED 4'-0" CHAIN HUNG FIXTURE: FROSTED LENS WITH WIREGUARD. LOCATE FIXTURES TO AVOID MECHANICAL EQUIPMENT. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	3,000 LUMENS 4000K 80CRI	1. LITHONIA ZL1D LED SERIES 2. METALUX SMLD SERIES 3. COLUMBIA LCL LED SERIES
L11	LED TRACK FIXTURE: 60 DEG SEMI-SPECULAR REFLECTOR. ALUMINUM HOUSING. ALUMINUM DIE-CAST HEAT SINK, CLEAR LENS, LUMINAIRE ARM SHALL ALLOW FOR 90° ADJUSTMENT. TRACK SHALL BE SINGLE CIRCUIT AND 0-10V DIMMING. TRACK LENGTH AS INDICATED ON PLAN. BLACK FINISH.	120V	740 LUMENS 4000K 80CRI	1. BRUOK Z10 LED TRACK SERIES 2. INTENSE ITLP16H TRACK SERIES 3. TECH FOKIS LED TRACK SERIES
L12	4'-0" LED COVE FIXTURE: INTEGRAL SELF-LOCKING BRACKET WITH 90° ROTATION. BUILT IN MALE/FEMALE CONNECTORS, WITH JUMPER CABLES. ALUMINUM HOUSING, 0-10 VOLT 1% DIMMING. LINK FIXTURES TOGETHER FOR A SINGLE RUN, REFER TO PLANS FOR RUN LENGTHS.	MULTI	1250 LUMENS PER FOOT 4000K 80CRI	1. MODA LIGHT COVE SERIES 2. ECOSENSE SLIM COVE SERIES 3. ACCLAM AL COVE ECO SERIES

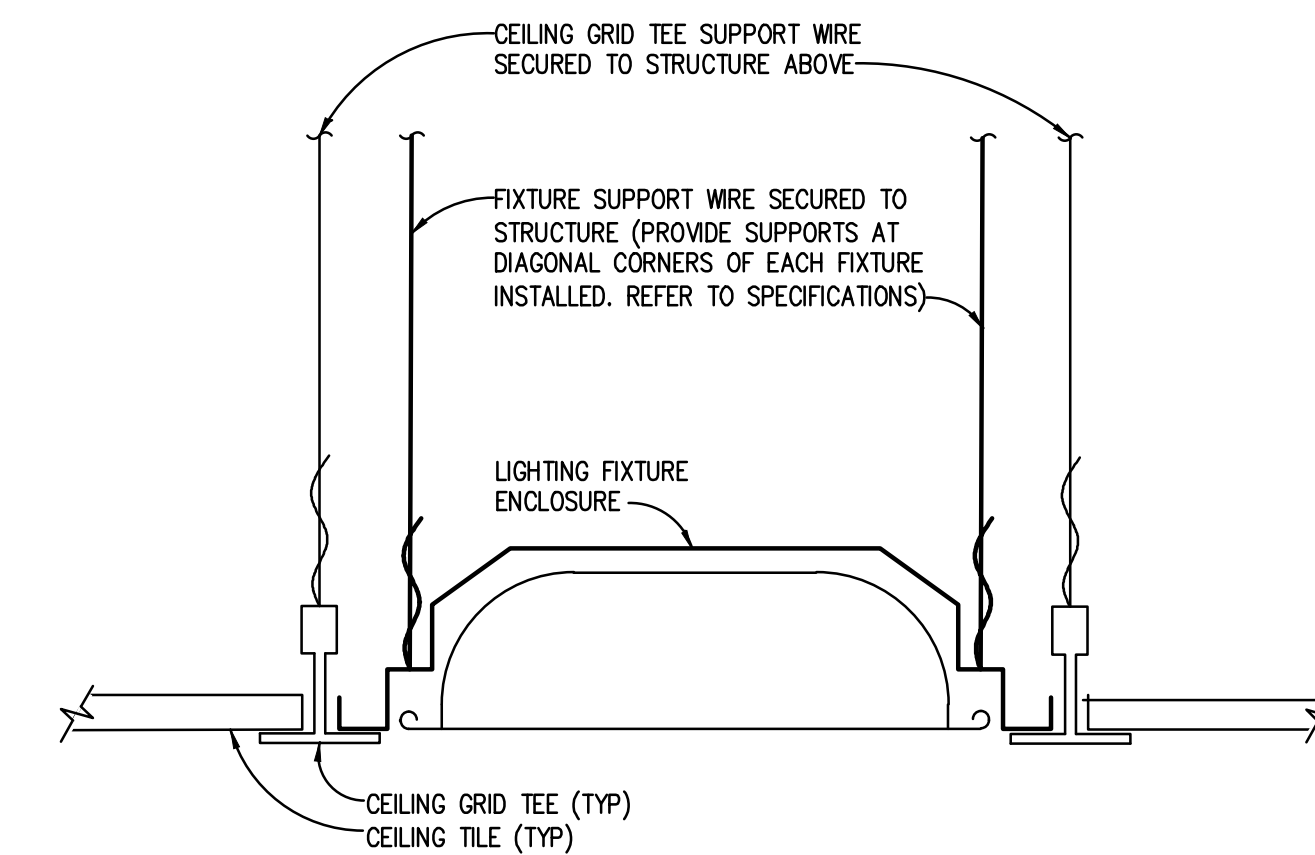
INTERIOR LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	VOLTAGE	OUTPUT	MANUFACTURERS
R1	LED RETROFIT DOWNLIGHT: SIZE TO MATCH EXISTING 6" DIAMETER DOWNLIGHTS IN CEILING (CONTRACTOR TO VERIFY). WIDE BEAM, SEMI-SPECULAR FINISH, WHITE FLANGE AND GOOF RING SIZED AS REQUIRED. CONTRACTOR TO PROVIDE MOCK OF ONE FIXTURE UP PRIOR TO ORDERING ALL FIXTURES. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	1,000 LUMENS LED 4000K 80 CRI MINIMUM	1. ELITE HHJ8 SERIES 2. COOPER HALO HC8R SERIES 3. SPECTRUM INFINIUM OS SERIES
R2	LED RETROFIT DOWNLIGHT: SIZE TO MATCH EXISTING 6" DIAMETER DOWNLIGHTS IN CEILING (CONTRACTOR TO VERIFY). WIDE BEAM, SEMI-SPECULAR FINISH, WHITE FLANGE AND GOOF RING SIZED AS REQUIRED. CONTRACTOR TO PROVIDE MOCK OF ONE FIXTURE UP PRIOR TO ORDERING ALL FIXTURES. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	1,500 LUMENS LED 4000K 80 CRI MINIMUM	1. ELITE HHJ8 SERIES 2. COOPER HALO HC8R SERIES 3. SPECTRUM INFINIUM OS SERIES
OL1	LED ARCHITECTURAL WALL PACK LIGHT FIXTURE: FORWARD THROW, WEATHER RESISTANT ALUMINUM HOUSING WITH INTEGRAL WEATHER TIGHT LED DRIVER WITH HIGH PERFORMANCE ALUMINUM HEATSINKS. U.L. LISTED FOR WET LOCATIONS. FIXTURE SHALL BE COMPLETELY GASKETED. COLOR BY ARCHITECT. PROVIDE WITH MOTION SENSOR CONTROL. PROVIDE. FIXTURE SHALL DIM TO 50% OUTPUT WHEN NO MOTION IS DETECTED AFTER 15 MINUTES. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	3,000 LUMENS 4000K 80CRI	1. LITHONIA WST-LED SERIES 2. MCGRAW EDISON IST SERIES 3. SPAULDING TRP SERIES
OL2	6" ROUND RECESSED VANDAL RESISTANT LED ROUND DOWNLIGHT: LED WITH VENTILATED DIE CAST ALUMINUM HEAT SINK, DIE CAST ALUMINUM BEZEL, TAMPER RESISTANT TORX SCREWS, FULLY SEALED AND GASKETED, SELF FLANGED WHITE TRIM RING WITH CLEAR POLYCARBONATE LENS, WIDE DISTRIBUTION. IP 65 RATED. U.L. LISTED FOR WET LOCATIONS. FOR FIXTURES INDICATED AS EMERGENCY ON PLAN, PROVIDE AUTOMATIC LOAD CONTROL RELAY.	MULTI	LED 4000K WHITE 1000 MIN. LUMENS 80 CRI MINIMUM	1. NEW STAR MED 6 LED SEREIS 2. PORTIFOLIO FFLD6A SERIES 3. GOTHAM EVO VR SERIES
SL1	LED POLE MOUNTED SITE LIGHTING FIXTURE: POLE TOP CONFIGURATION AS SHOWN ON PLAN. TYPE (41FT) DISTRIBUTION. FULLY GASKETED ALUMINUM HOUSING WITH INTEGRAL WEATHER TIGHT ELECTRONIC LED DRIVER THAT IS U.L. LISTED FOR WET LOCATIONS. FUSED AT HAND HOLE. FINISH BY ARCHITECT. POLE SHALL HAVE APPROPRIATE MOUNTING BRACKETS WITH CONFIGURATION AS SHOWN ON PLAN, 30'-0" TALL (4") SQUARE ALUMINUM, POWDER COAT FINISH WITH SQUARE BOLT COVER AND HAND HOLE. COLOR SHALL MATCH FIXTURE. POLE SHALL HAVE VIBRATION ISOLATION DAMPENER WITHIN POLE.	MULTI	LED 4000K WHITE 20,000 MIN. LUMENS 70 CRI MINIMUM	1. HUBBELL AIRO SERIES 2. COOPER GALLEON 2 SERIES 3. LITHONIA D SERIES
SL2	LED POLE MOUNTED SITE LIGHTING FIXTURE: POLE TOP CONFIGURATION AS SHOWN ON PLAN. TYPE (SL2) DISTRIBUTION. FULLY GASKETED ALUMINUM HOUSING WITH INTEGRAL WEATHER TIGHT ELECTRONIC LED DRIVER THAT IS U.L. LISTED FOR WET LOCATIONS. FUSED AT HAND HOLE. FINISH BY ARCHITECT. POLE SHALL HAVE APPROPRIATE MOUNTING BRACKETS WITH CONFIGURATION AS SHOWN ON PLAN, 30'-0" TALL (4") SQUARE ALUMINUM, POWDER COAT FINISH WITH SQUARE BOLT COVER AND HAND HOLE. COLOR SHALL MATCH FIXTURE. POLE SHALL HAVE VIBRATION ISOLATION DAMPENER WITHIN POLE.	MULTI	LED 4000K WHITE 20,000 MIN. LUMENS 70 CRI MINIMUM	1. HUBBELL AIRO SERIES 2. COOPER GALLEON 2 SERIES 3. LITHONIA D SERIES
SL3	LED POLE MOUNTED SITE LIGHTING FIXTURE: POLE TOP CONFIGURATION AS SHOWN ON PLAN. TYPE (SL4) DISTRIBUTION. FULLY GASKETED ALUMINUM HOUSING WITH INTEGRAL WEATHER TIGHT ELECTRONIC LED DRIVER THAT IS U.L. LISTED FOR WET LOCATIONS. FUSED AT HAND HOLE. FINISH DARK BRONZE. POLE SHALL HAVE APPROPRIATE MOUNTING BRACKETS WITH CONFIGURATION AS SHOWN ON PLAN, 30'-0" TALL (4") SQUARE ALUMINUM, POWDER COAT FINISH WITH SQUARE BOLT COVER AND HAND HOLE. COLOR SHALL MATCH FIXTURE. POLE SHALL HAVE VIBRATION ISOLATION DAMPENER WITHIN POLE.	MULTI	LED 4000K WHITE 20,000 MIN. LUMENS 70 CRI MINIMUM	1. HUBBELL AIRO SERIES 2. COOPER GALLEON 2 SERIES 3. LITHONIA D SERIES
EXIT SIGN	LED EXIT SIGN: THERMOPLASTIC BLACK HOUSING, RED LETTERS. MOUNTING AS INDICATED ON DRAWINGS. HIGH OUTPUT LED DIFFUSE LIGHT PANEL. SINGLE OR DOUBLE STENCIL FACE AS INDICATED ON DRAWING. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.	MULTI	HIGH OUTPUT LED LIGHT PANEL	1. SURE-LITES LPX SERIES 2. LITHONIA QUANTUM LQM SERIES 3. DUAL-LITE LX SERIES

NOTES:
FOR FIXTURES INDICATED AS MULTI-VOLT ON SCHEDULE, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND PROVIDE PROPER VOLTAGE. COORDINATE WITH ARCHITECTURAL PLANS FOR CEILING TYPES.
COORDINATE WITH ARCHITECTURAL PLANS FOR EXTERIOR LIGHT FIXTURE MOUNTING HEIGHTS AT NEW ADDITIONS.

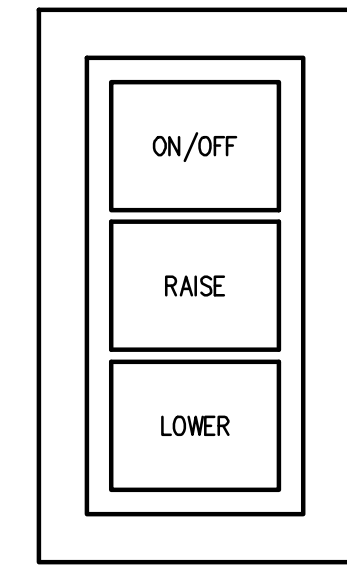
ALL LED FIXTURES SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
MULTI-VOLT ELECTRONIC DRIVER. MINIMUM OF 50,000 HOURS OPERATION WITH GREATER THAN 70% DELIVERED LUMEN OUTPUT. LUMENS SHALL BE DELIVERED LUMENS.
INDOOR DRIVERS SHALL BE RATED FOR A MINIMUM 65°C.
OUTDOOR DRIVERS SHALL BE RATED FOR MINIMUM -20°C.
DRIVER SHALL BE LABELED TO COMPLY WITH NEMA SSL1, AND THD OF LESS THAN 20%.
DRIVER SHALL BE SERVICEABLE FROM BELOW CEILING.
LUMINAIRE SHALL COMPLY WITH IES STANDARDS LM-79 AND LM-80.



TYPICAL MOUNTING DETAIL FOR CHAIN HUNG LIGHTING FIXTURES
NO SCALE

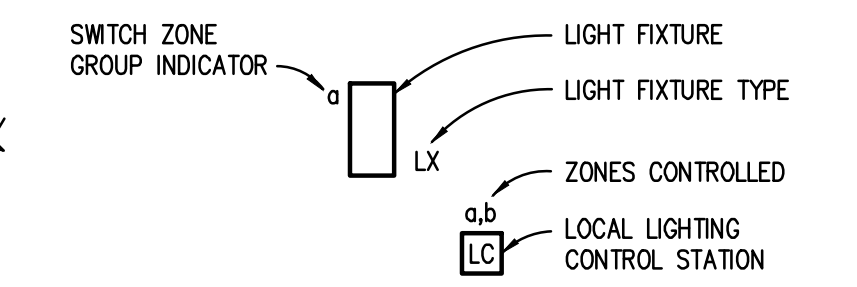


RECESSED LIGHTING FIXTURE INSTALLATION DETAIL
NO SCALE



TYPICAL DIMMING LIGHTING CONTROL STATION
NO SCALE

NOTES:
1. FOR LIGHTING CONTROL DEVICES IN REMOTE LOCATIONS DEVICES SHALL HAVE PILOT LIGHT AND LABELING FOR FIXTURES BEING CONTROLLED.



LIGHT FIXTURE CONTROLS KEY
NO SCALE

NOTES:
1. WHERE SWITCHING ZONES ARE NOT INDICATED, LOCAL LIGHTING CONTROL STATION SHALL CONTROL ALL LIGHT FIXTURES IN SPACE.
2. REFER TO LIGHTING CONTROL MATRIX FOR SWITCH TYPES REQUIRED AT LOCAL CONTROL STATION FOR EACH SPACE TYPE.

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PBA
Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48068-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

ELECTRICAL DETAILS AND DIAGRAMS



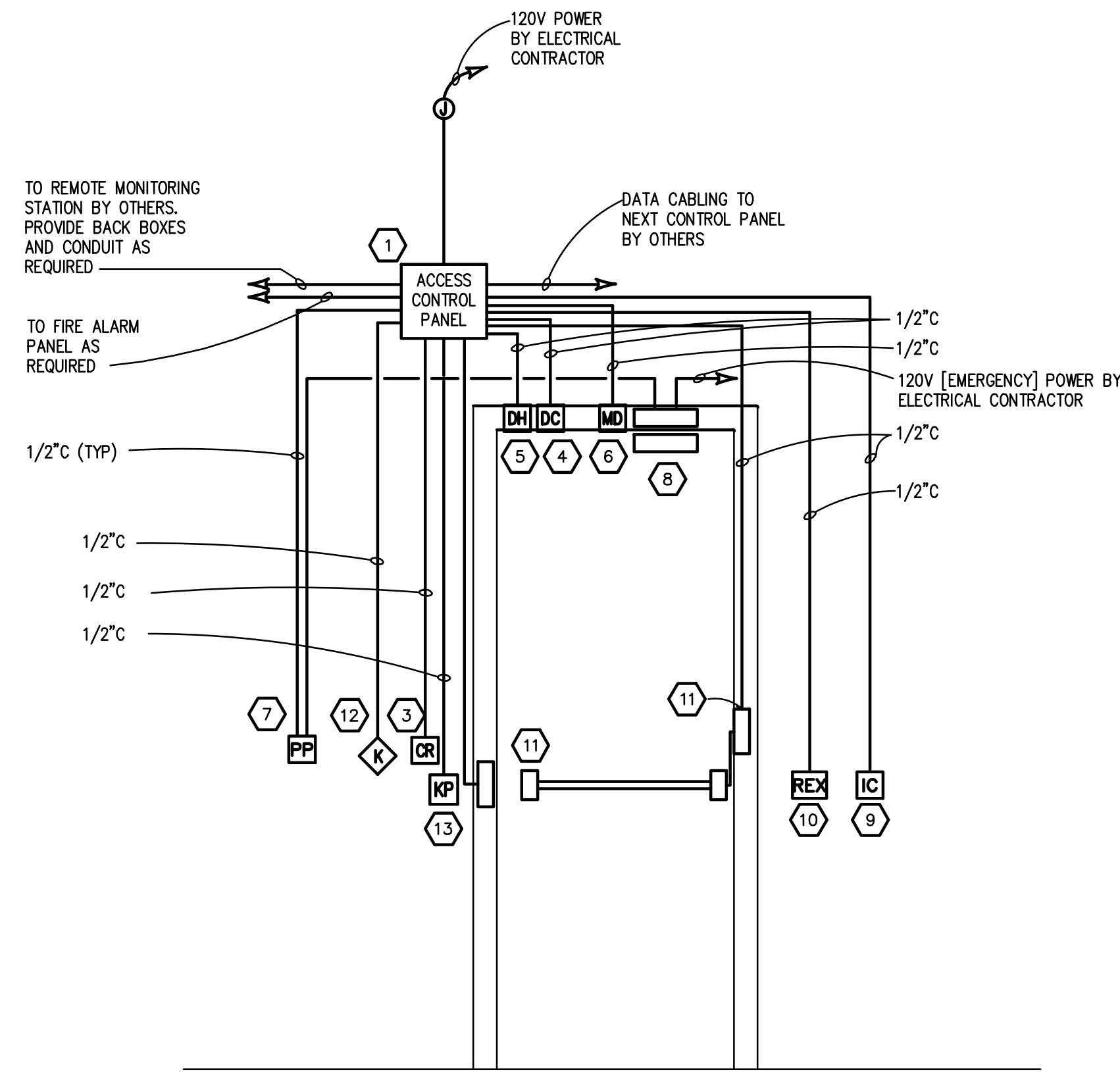
Crestwood School District
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Administration Relocation and Addition

Project No. 3221

E7.01

803 W. Big Beaver Road, Suite 350, Troy, MI 48068 | 248.244.9710

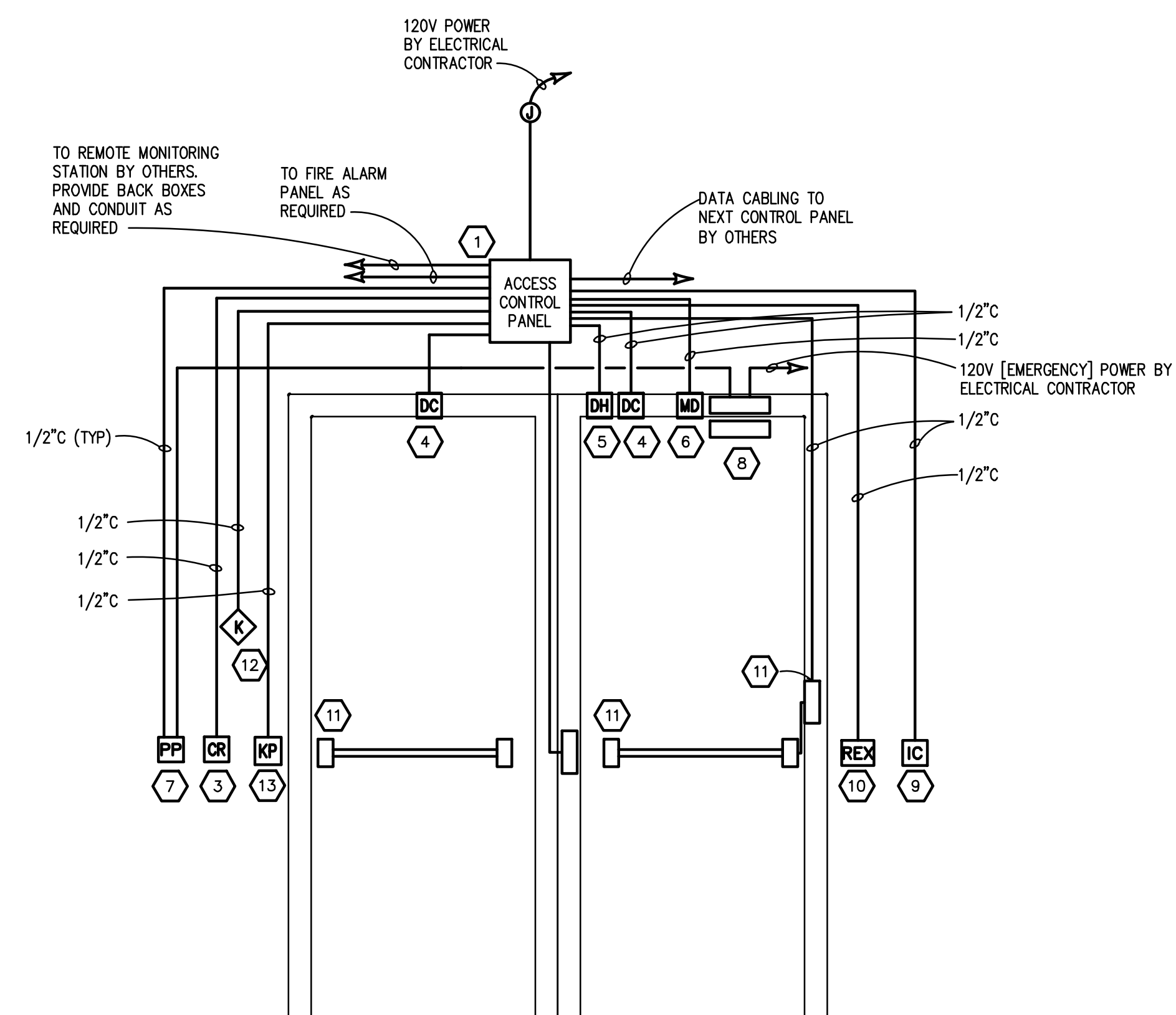
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TYPICAL ACCESS CONTROL SINGLE DOOR CONNECTION DIAGRAM
NO SCALE

- GENERAL NOTES:**
- REFER TO ELECTRICAL FLOOR PLANS FOR DOOR LOCATIONS.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE BACK BOXES, CONDUIT, 120 VOLT WIRING AND TERMINATIONS AS REQUIRED BY MANUFACTURE.
 - ACCESS CONTROL CONTRACTOR SHALL PROVIDE EQUIPMENT DEVICES AND ALL LOW VOLTAGE WIRING AND TERMINATIONS.
 - SOME DEVICES INDICATED MAY NOT APPLY REFER TO DOOR HARDWARE AND DOOR SCHEDULE. COORDINATE ALL WORK WITH HARDWARE CONTRACTOR.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE INTERCONNECTION WITH FIRE ALARM PANEL TO RELEASE DOORS I.E. ELECTROMAGNETIC LOCKS UPON AN ALARM CONDITION, AS REQUIRED.

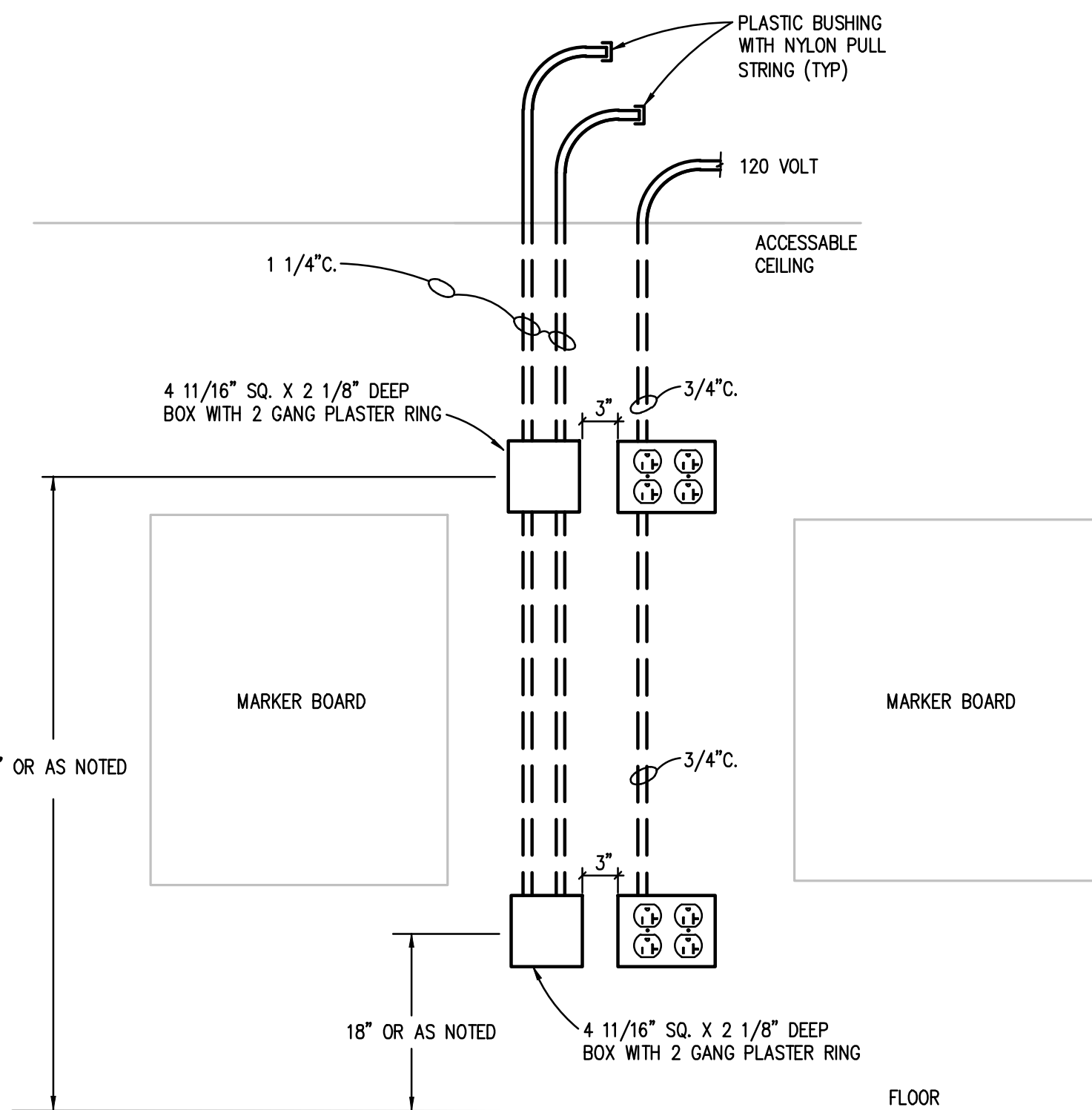
- KEYED NOTES:**
- ACCESS CONTROL SYSTEM, DOOR PANEL BY OTHERS.
 - LOW VOLTAGE CABLING, BY OTHERS.
 - PROXIMITY CARD READER, BY OTHERS.
 - DOOR MONITOR CONTACT SWITCH, BY OTHERS.
 - DOOR HOLDER, BY OTHERS. ELECTROMAGNETIC SWITCH MOUNTED ON/IN DOOR AND FRAME. [FOR DELAYED OPERATION] IN LIEU OF ELECTRIC STRIKE.
 - MOTION DETECTOR, BY OTHERS. REQUEST TO EXIT MOTION DETECTOR MOUNTED TO TOP OF DOOR FRAME. COORDINATE WITH DOOR AND FRAME CONTRACTOR.
 - DOOR OPERATOR PUSH PLATE, BY OTHERS.
 - DOOR OPERATOR, BY OTHERS.
 - INTERCOM STATION, BY OTHERS.
 - REQUEST TO EXIT PUSH PAD, BY OTHERS.
 - ELECTRIC STRIKE, PANIC HARDWARE, POWER TRANSFER, BY OTHERS.
 - KEY-SWITCH, BY OTHERS.
 - KEYPAD, BY OTHERS.



TYPICAL ACCESS CONTROL DOUBLE DOOR CONNECTION DIAGRAM
NO SCALE

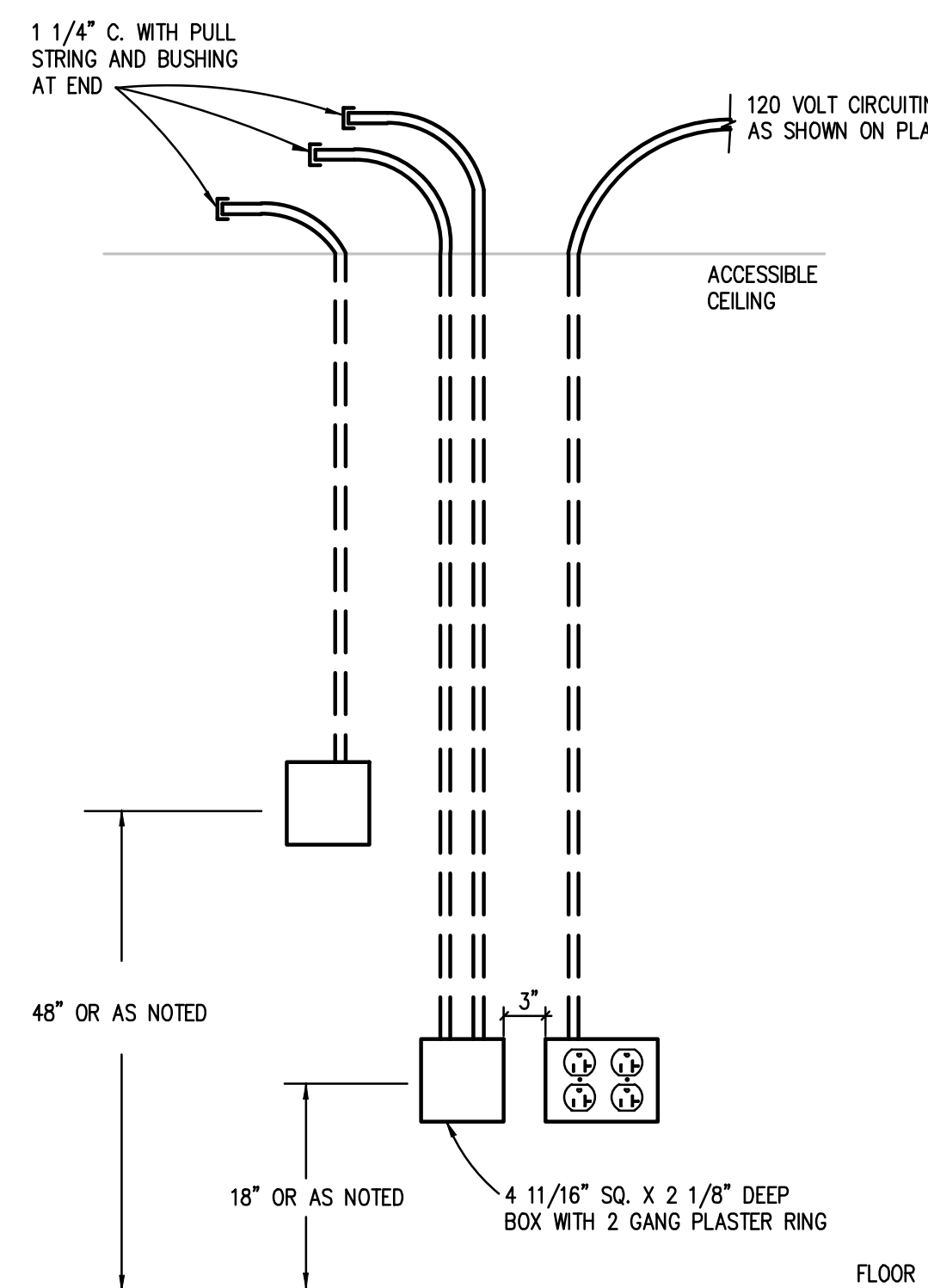
- GENERAL NOTES:**
- REFER TO ELECTRICAL FLOOR PLANS FOR DOOR LOCATIONS.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE BACK BOXES, CONDUIT, 120 VOLT WIRING AND TERMINATIONS AS REQUIRED BY MANUFACTURE.
 - ACCESS CONTROL CONTRACTOR SHALL PROVIDE EQUIPMENT DEVICES AND ALL LOW VOLTAGE WIRING AND TERMINATIONS.
 - SOME DEVICES INDICATED MAY NOT APPLY REFER TO DOOR HARDWARE AND DOOR SCHEDULE. COORDINATE ALL WORK WITH HARDWARE CONTRACTOR.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE INTERCONNECTION WITH FIRE ALARM PANEL TO RELEASE DOORS I.E. ELECTROMAGNETIC LOCKS UPON AN ALARM CONDITION, AS REQUIRED.

- KEYED NOTES:**
- ACCESS CONTROL SYSTEM, DOOR PANEL BY OTHERS.
 - LOW VOLTAGE CABLING, BY OTHERS.
 - PROXIMITY CARD READER, BY OTHERS.
 - DOOR MONITOR CONTACT SWITCH, BY OTHERS.
 - DOOR HOLDER, BY OTHERS. ELECTROMAGNETIC SWITCH MOUNTED ON/IN DOOR AND FRAME. [FOR DELAYED OPERATION] IN LIEU OF ELECTRIC STRIKE.
 - MOTION DETECTOR, BY OTHERS. REQUEST TO EXIT MOTION DETECTOR MOUNTED TO TOP OF DOOR FRAME. COORDINATE WITH DOOR AND FRAME CONTRACTOR.
 - DOOR OPERATOR PUSH PLATE, BY OTHERS.
 - DOOR OPERATOR, BY OTHERS.
 - INTERCOM STATION, BY OTHERS.
 - REQUEST TO EXIT PUSH PAD, BY OTHERS.
 - ELECTRIC STRIKE, PANIC HARDWARE, POWER TRANSFER, BY OTHERS.
 - KEY-SWITCH, BY OTHERS.
 - KEYPAD, BY OTHERS.



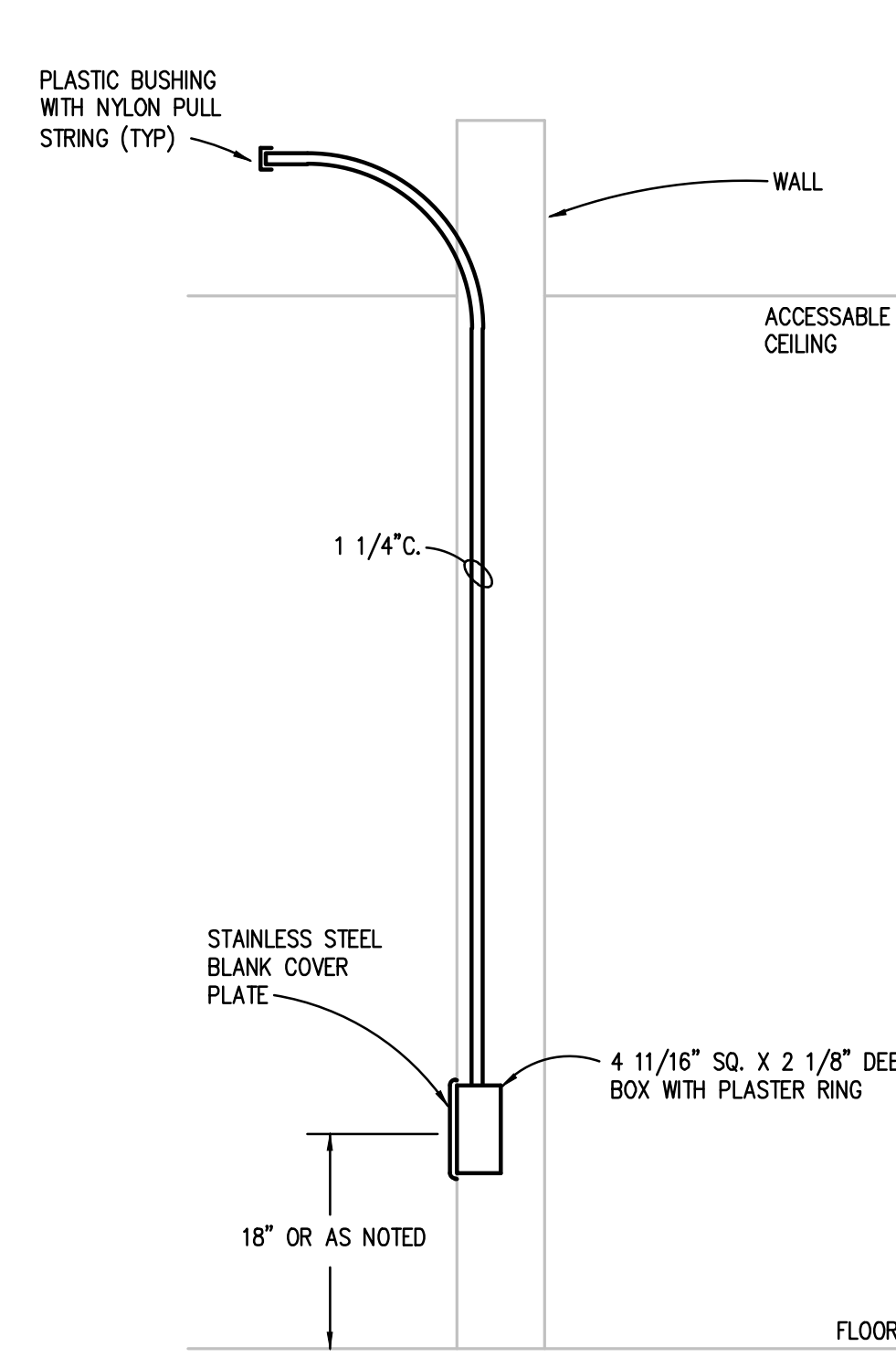
PROJECTOR DETAIL
NO SCALE

- NOTES:**
- COORDINATE FINAL TECHNOLOGY OUTLET AND ASSOCIATED POWER LOCATIONS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
 - FOR INSTALLATION IN NEW WALLS PROVIDE CONDUITS AS INDICATED.
 - FOR INSTALLATION ON EXISTING CMU WALLS PROVIDE SURFACE RACEWAY.
 - DATA DEVICES SHALL BE PROVIDED BY TECHNOLOGY CONTRACTOR.
 - PROVIDE BLANK STAINLESS STEEL FACEPLATE FOR ALL TECHNOLOGY OUTLETS.



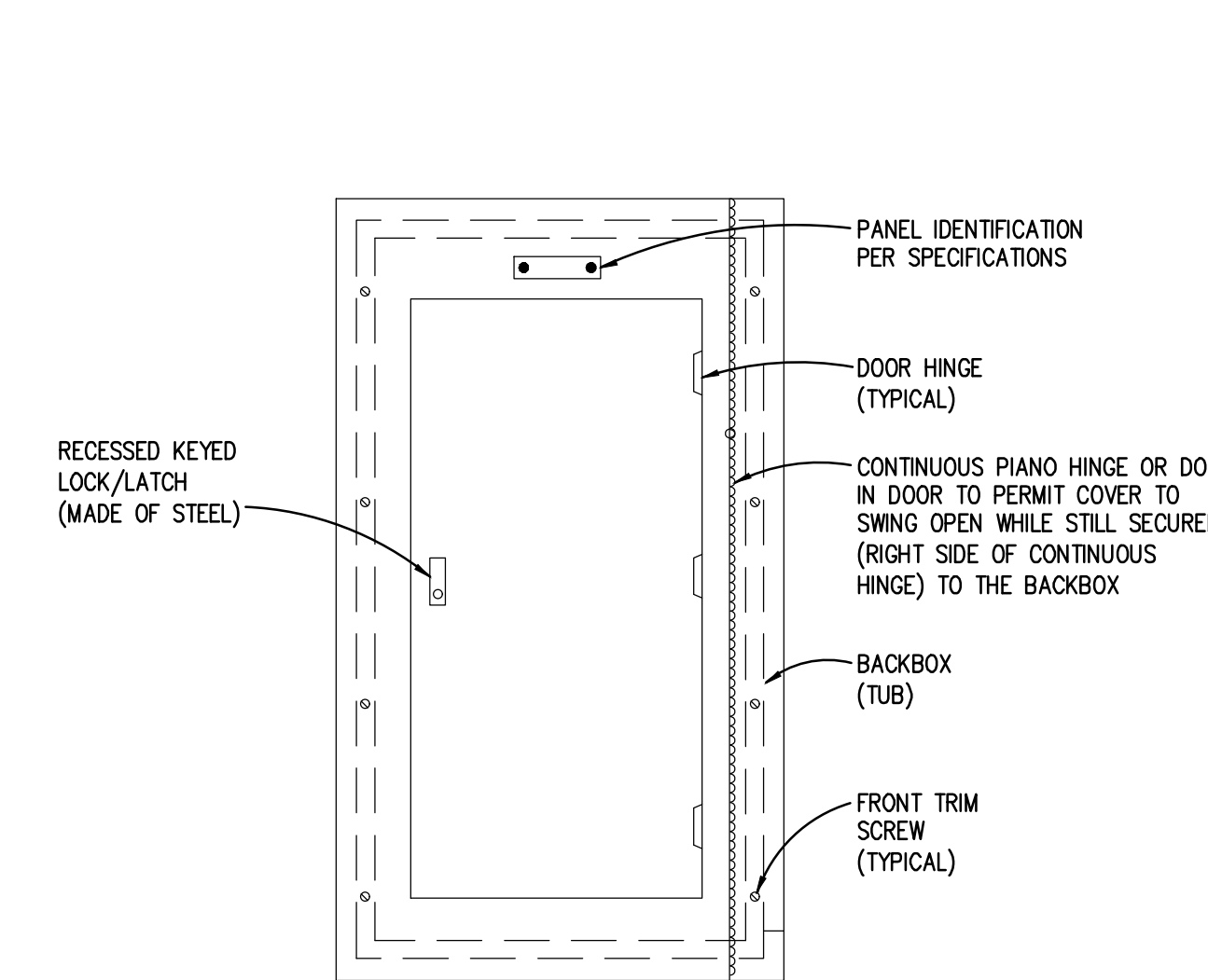
TEACHERS WORKSTATION DETAIL
NO SCALE

- NOTES:**
- COORDINATE FINAL TECHNOLOGY OUTLET AND ASSOCIATED POWER LOCATIONS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
 - FOR INSTALLATION IN NEW WALLS PROVIDE CONDUITS AS INDICATED.
 - FOR INSTALLATION ON EXISTING CMU WALLS PROVIDE SURFACE RACEWAY.
 - DATA DEVICES SHALL BE PROVIDED BY TECHNOLOGY CONTRACTOR.
 - PROVIDE BLANK STAINLESS STEEL FACEPLATE FOR ALL TECHNOLOGY OUTLETS.



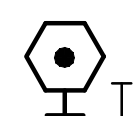
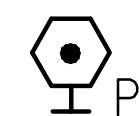
RECESSED TELECOMMUNICATION OUTLET DETAIL
NO SCALE

- NOTES:**
- COORDINATE FINAL TECHNOLOGY OUTLET AND ASSOCIATED POWER LOCATIONS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
 - FOR INSTALLATION IN NEW WALLS PROVIDE CONDUITS AS INDICATED.
 - FOR INSTALLATION ON EXISTING CMU WALLS PROVIDE SURFACE RACEWAY.
 - DATA DEVICES SHALL BE PROVIDED BY TECHNOLOGY CONTRACTOR.
 - PROVIDE BLANK STAINLESS STEEL FACEPLATE FOR ALL TECHNOLOGY OUTLETS.



PANELBOARD FRONT COVER DETAIL
NO SCALE

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Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
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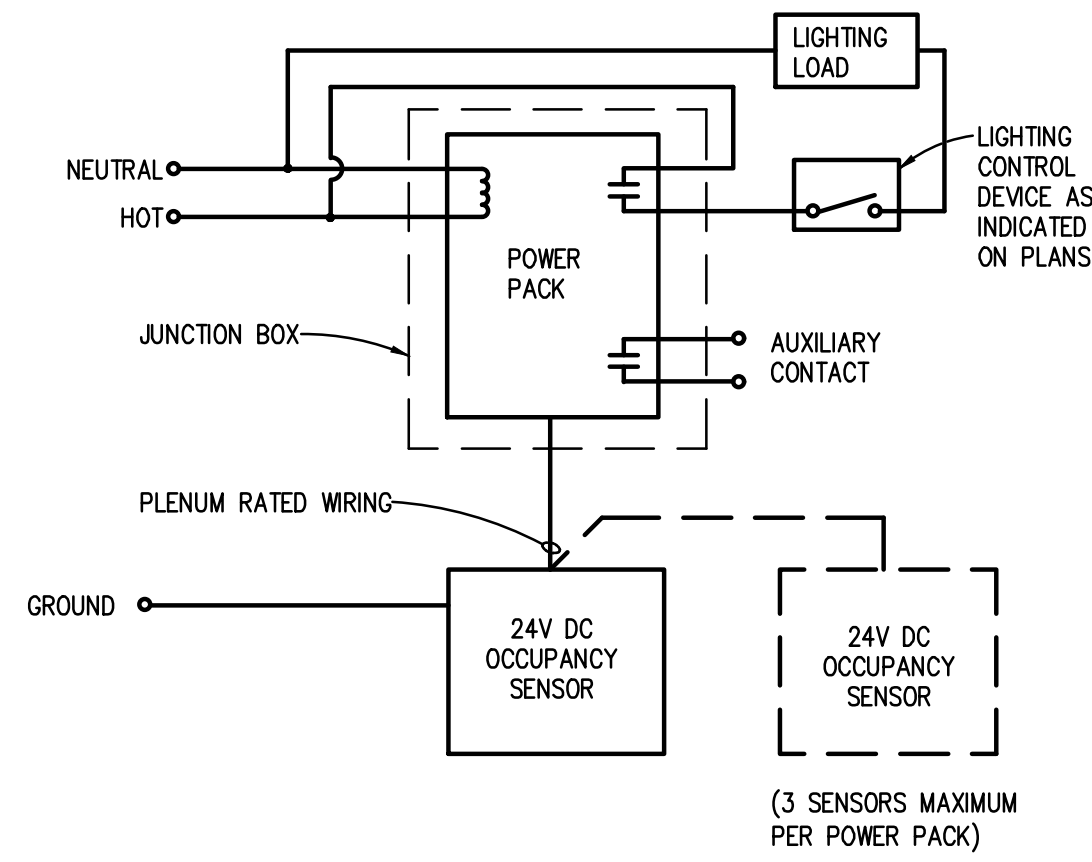
ELECTRICAL DETAILS AND DIAGRAMS



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

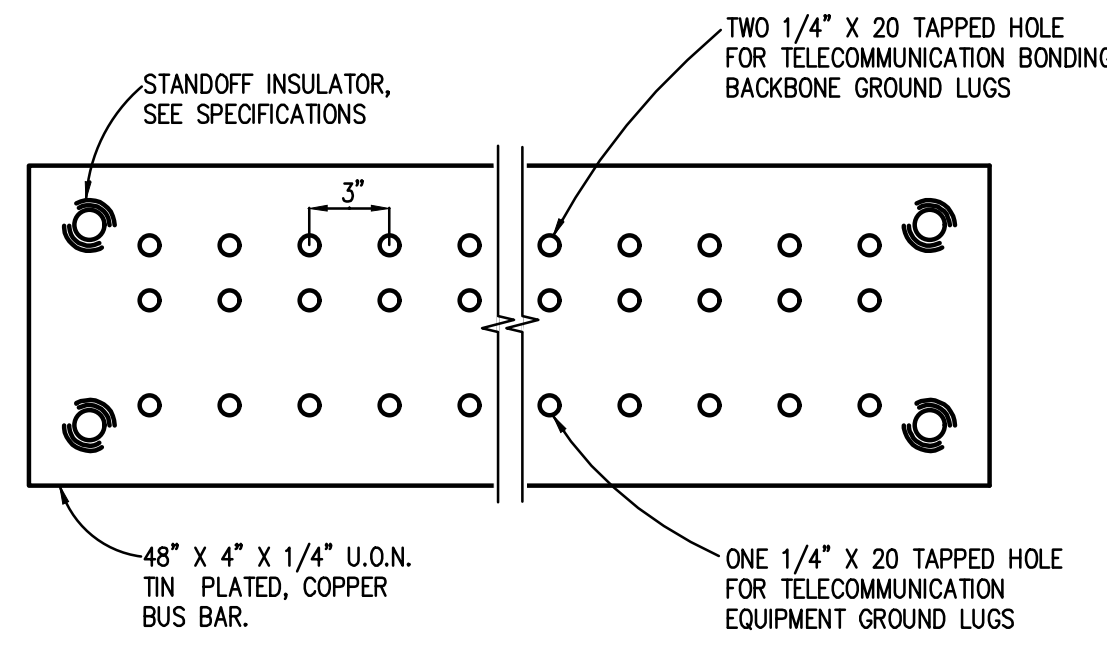
Project No. 3221

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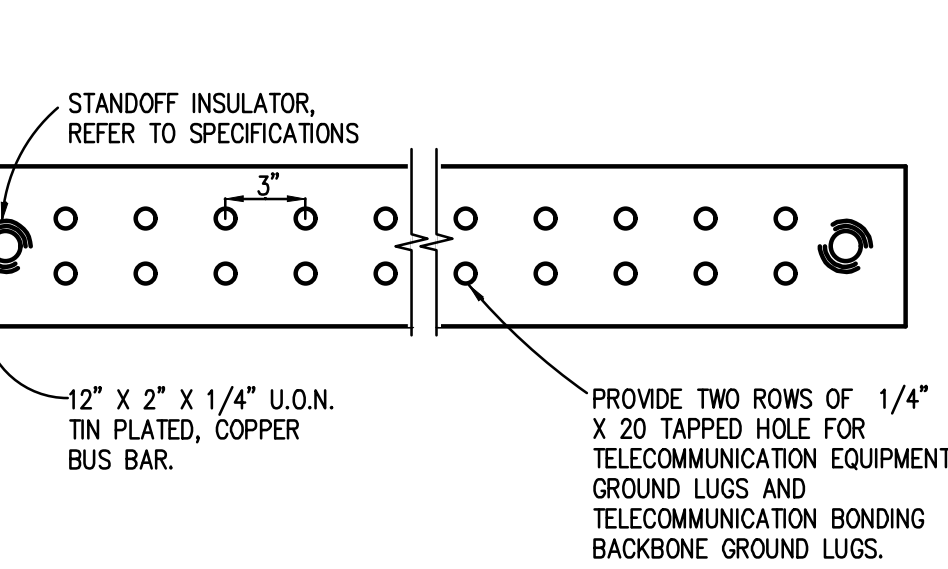


OCCUPANCY SENSOR WIRING DIAGRAM

- NO SCALE**
- NOTES:
- REFER TO SPECIFICATIONS FOR ACCEPTED MANUFACTURERS.
 - PROVIDE POWER PACKS AND SLAVE PACKS AS REQUIRED FOR SWITCHING AS INDICATED ON PLAN. REVISE DETAIL AS REQUIRED BY MANUFACTURER.
 - MOUNTING LOCATION PER MANUFACTURER'S RECOMMENDATION.
 - ADJUST SENSITIVITY LEVELS PER THE OWNER REQUIREMENTS.
 - PROVIDE FACTORY SUPPORT FOR AIMING/ADJUSTING OF SENSORS.
 - PLACE CEILING MOUNTED OCCUPANCY SENSORS IN CENTER OF A FULL CEILING TILE, WHERE APPLICABLE.
 - SENSOR ADJUSTMENT: BEFORE MAKING ADJUSTMENTS, MAKE SURE ROOM FURNITURE IS INSTALLED, LIGHTING CIRCUITS ARE TURNED ON, AND THE HVAC SYSTEMS ARE IN THE ON POSITION. VAV SYSTEMS SHOULD BE SET TO THEIR HIGHEST AIRFLOW. SET THE LOGIC CONFIGURATION DIP SWITCHES TO "EITHER", EITHER REQUIRES MOTION DETECTION BY ONLY ONE TECHNOLOGY. SET THE TIME DELAY PER OWNERS DIRECTION.



TELECOMMUNICATIONS MAIN GROUND BUS (TMGB) DETAIL

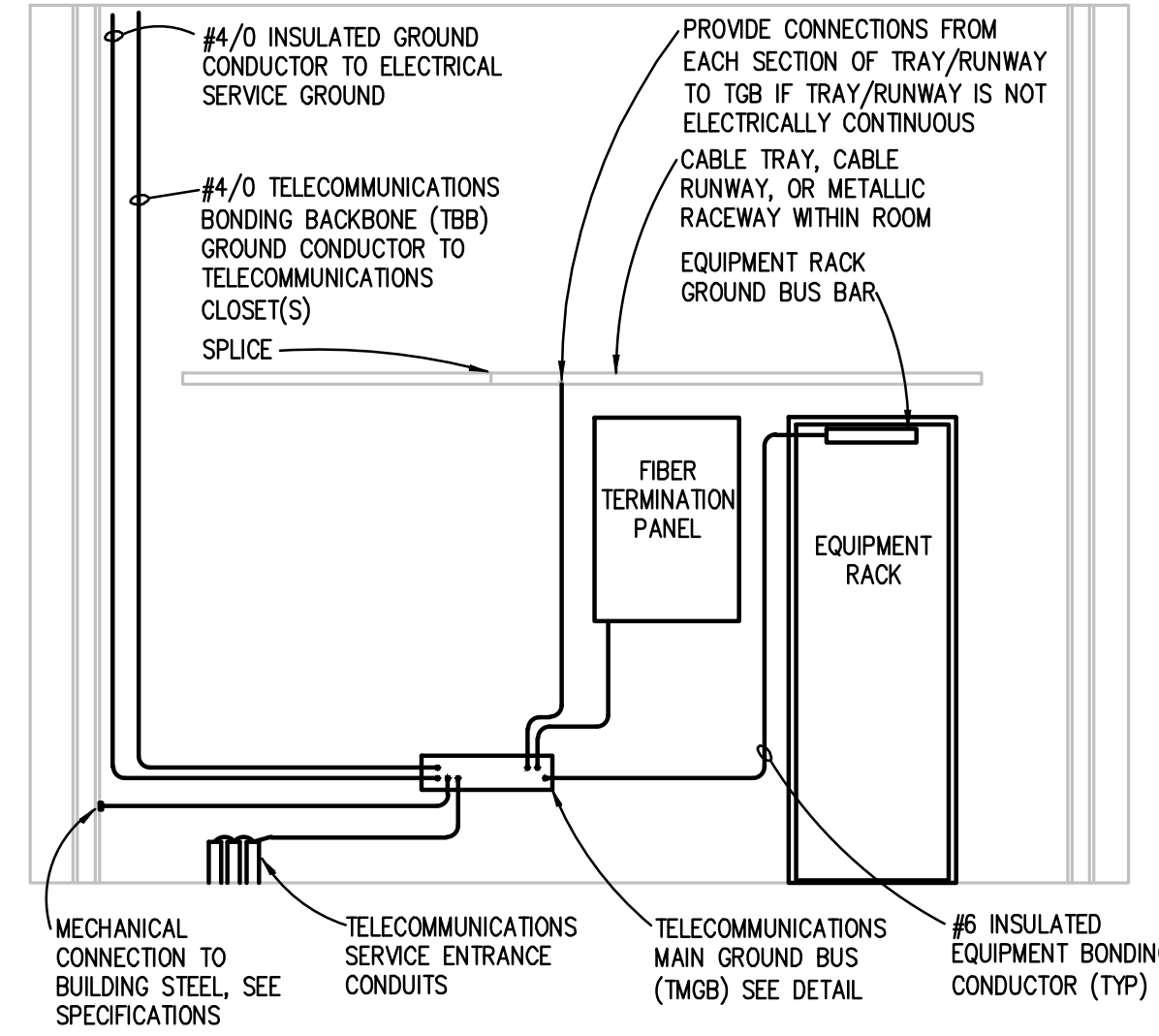


TELECOMMUNICATIONS GROUND BUS (TGB) DETAIL

NO SCALE

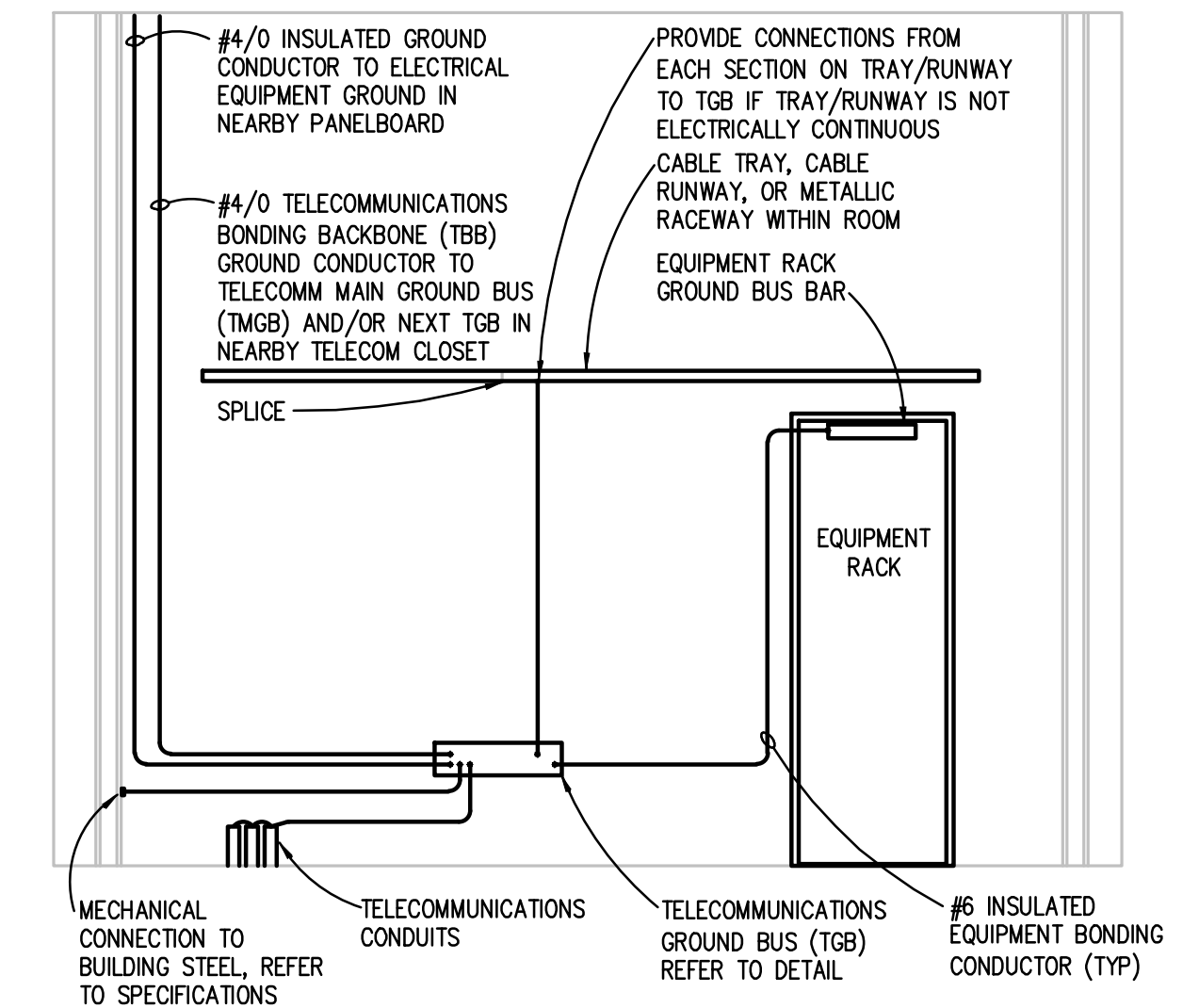
NOTE:

PROVIDE TWO HOLE LUGS FOR TELECOMMUNICATION BONDING BACKBONE CONNECTIONS, AND ONE HOLE LUGS FOR EQUIPMENT GROUND CONDUCTOR CONNECTIONS.



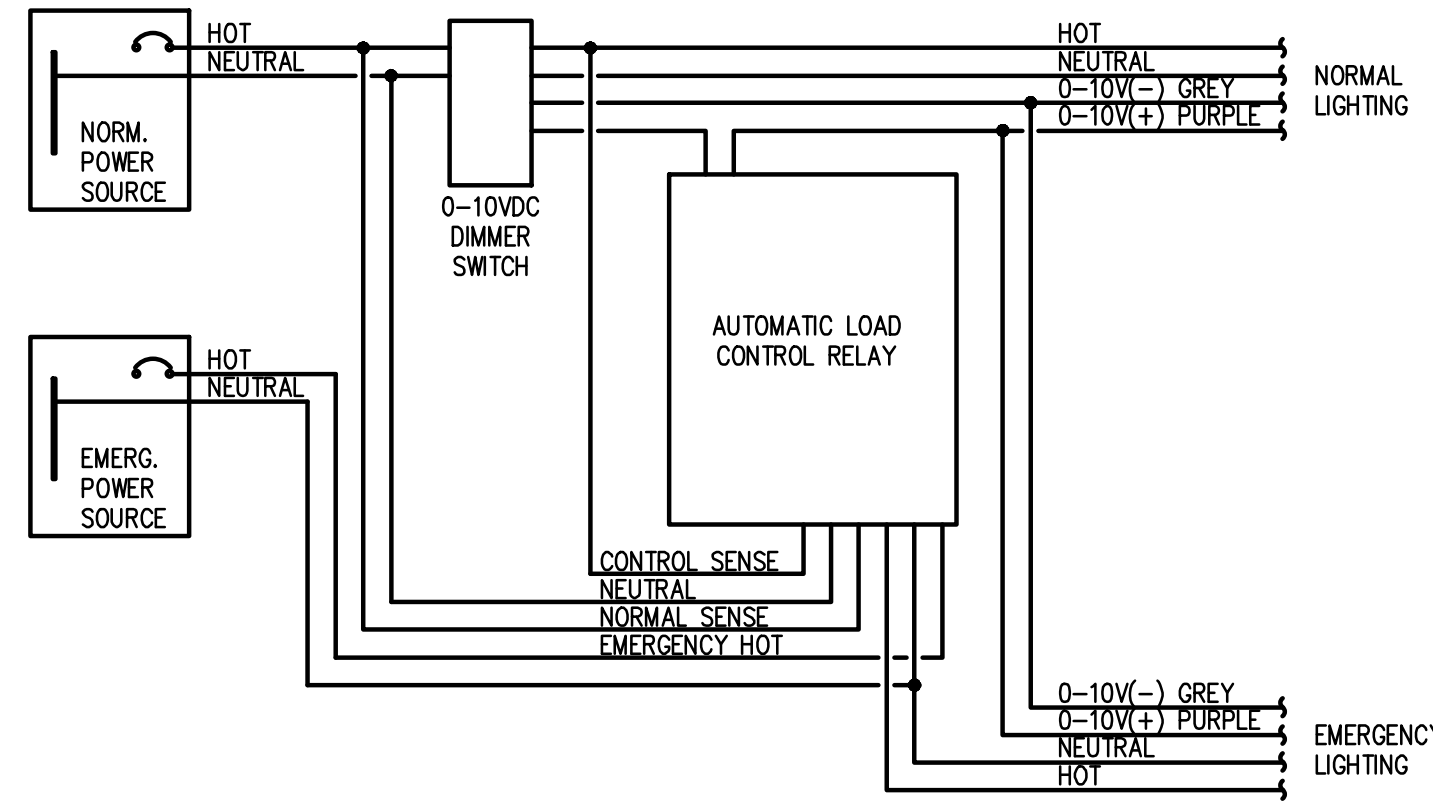
MAIN TELECOMMUNICATIONS ROOM GROUNDING DETAIL

- NO SCALE**
- NOTE:
- ALL GROUNDING SHALL COMPLY WITH NEC ARTICLE 250 AND TIA/EIA-607.
 - CONNECT ALL EQUIPMENT RACKS INCLUDING MAIN DISTRIBUTION FRAME (MDF) TO TMGB WITH A SEPARATE EQUIPMENT BONDING CONDUCTOR.



TELECOMMUNICATIONS ROOM GROUNDING DETAIL

- NO SCALE**
- NOTE:
- ALL GROUNDING SHALL COMPLY WITH N.E.C. ARTICLE 250 AND TIA/EIA-607.
 - CONNECT ALL EQUIPMENT RACKS TO TGB WITH A SEPARATE EQUIPMENT BONDING CONDUCTOR.



AUTOMATIC LOAD CONTROL RELAY FOR 0-10V DIMMING

- NO SCALE**
- NOTES:
- BASIS OF DESIGN IS ETC ALCR-DIN. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS. ADJUST WIRING AS NECESSARY FOR OTHER APPROVED MANUFACTURERS.
 - PROVIDE ONE AUTOMATIC LOAD CONTROL RELAY PER SWITCHING CIRCUIT

		SYSTEM OUTPUTS																			
		ANNUNCIATION				NOTIFICATION					FIRE SAFETY										
SYSTEM INPUTS	INITIATION	MANUAL FIRE BOX OPERATION	●	●	●																
		SMOKE DETECTOR OPERATION																			
		CARBON MONOXIDE DETECTOR OPERATION		●																	
		DUCT DETECTOR OPERATION			●	●															
		FACP FIRE ALARM CONDITION			●	●															
	EXTERNAL SYSTEM INPUT	FACP TROUBLE CONDITION				●	●	●													
		TROUBLE SIGNAL FROM SUPPRESSION SYSTEM				●	●	●													
		FIRE EXTINGUISHING SYSTEM OPERATION		●		●	●														
		STATUS	OPEN CIRCUIT, SHORT CIRCUIT, OR GROUND FAULT ON INITIATING DEVICE, SIGNALING LINE, OR NOTIFICATION APPLIANCE CIRCUIT.				●	●	●												
		OPENING, TAMPERING, OR REMOVAL OF ALARM-INITIATING DEVICES				●	●	●													
		OPENING, TAMPERING, OR REMOVAL OF SUPERVISORY SIGNAL INITIATING DEVICES				●	●	●													
		LOSS OF PRIMARY POWER OF FACP				●	●	●													
		GROUND OR SIGNAL BREAK IN FACP INTERNAL CIRCUITS				●	●	●													
		ABNORMAL AC VOLTAGE AT THE FACP				●	●	●													
		STANDBY BATTERY CIRCUITRY BREAK				●	●	●													
	FAILURE OF BATTERY CHARGING SYSTEM				●	●	●														
	ABNORMAL POSITION OF ANY SWITCH AT THE FACP				●	●	●														
	ABNORMAL POSITION OF ANY SWITCH AT THE ANNUNCIATOR				●	●	●														
	KNOX BOX OPEN				●	●															

FIRE ALARM MATRIX

NO SCALE

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Peter Basso Associates Inc.
 CONSULTING ENGINEERS
 5145 Livernois, Suite 100
 Troy, Michigan 48098-3276
 Tel: 248-679-5666
 Fax: 248-879-0007
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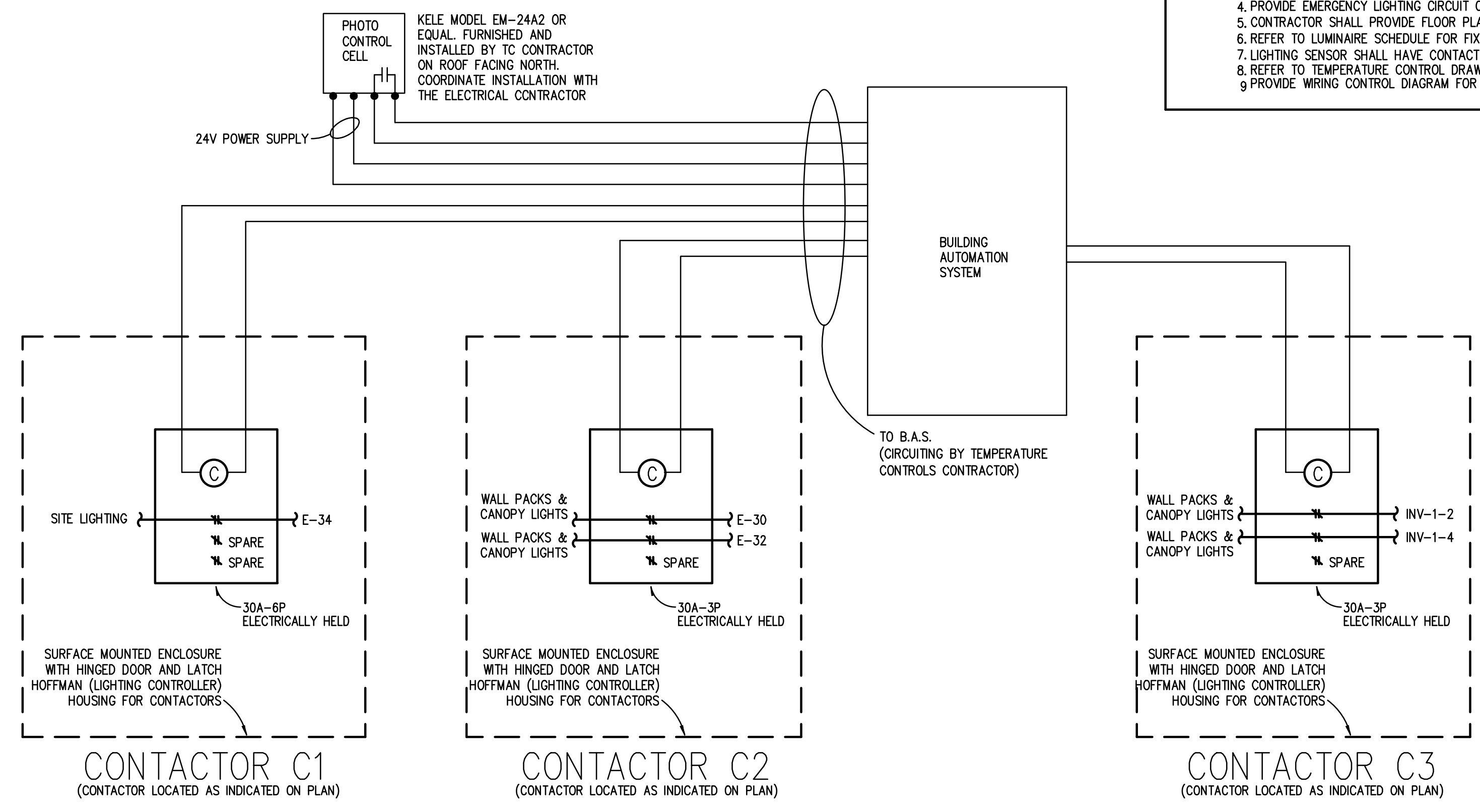
INTERIOR LIGHTING CONTROL SCHEDULE

PLAN REFERENCE	ROOM TYPE	LOCAL CONTROL			CONTROL ON / OFF	SENSOR TYPE	TURN ON LIGHTING TO %	BI-LEVEL CONTROL	DAYLIGHT			NO DETECTION FULL OFF (MIN)	EMERGENCY LIGHTING CIRCUIT CONTROL	HVAC CONTROL	NOTES
		SWITCH TYPE	SWITCH CONTROL	SCENE CONTROL					SIDE LIGHT	TOP LIGHT	MAINTAIN FC LEVEL				
A	OFFICE (ENCLOSED AND ≤ 250 SQFT)	LOW VOLTAGE	ON-OFF-DIM	N/A	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	CONTINUOUS DIM	N/A	N/A		20	N/A	N/A	
B	OFFICE (ENCLOSED AND >250 SQFT)	LOW VOLTAGE	ON-OFF-DIM	N/A	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	CONTINUOUS DIM	N/A	N/A		20	N/A	N/A	
C	OFFICE (OPEN PLAN)	LOW VOLTAGE	ON-OFF-DIM	N/A	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	CONTINUOUS DIM	N/A	N/A		20	ALCR	N/A	
D	OFFICE (OPEN PLAN)	LOW VOLTAGE	ON-OFF-DIM	N/A	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	CONTINUOUS DIM	N/A	N/A		20	N/A	N/A	
E	CLASSROOM/LECTURE HALL/TRAINING ROOM (ALL OTHER CLASSROOMS/LECTURE HALLS/TRAINING ROOMS)	LOW VOLTAGE	ON-OFF-DIM	N/A	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	CONTINUOUS DIM	N/A	N/A		20	N/A	YES	
F	CONFERENCE/MEETING/MULTIPURPOSE ROOM	LOW VOLTAGE	ON-OFF-DIM	N/A	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	CONTINUOUS DIM	N/A	N/A		20	ALCR	N/A	
G	CONFERENCE/MEETING/MULTIPURPOSE ROOM	LOW VOLTAGE	ON-OFF-DIM	N/A	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	CONTINUOUS DIM	YES	N/A	EQUAL TO LIGHT OUTPUT OF FIXTURES OUTSIDE OF DAYLIGHTING AREA	20	ALCR	N/A	
H	CONFERENCE/MEETING/MULTIPURPOSE ROOM	LOW VOLTAGE	ON-OFF-DIM	N/A	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	CONTINUOUS DIM	N/A	N/A		20	N/A	N/A	
I	CORRIDOR (ALL OTHER CORRIDORS)	LINE VOLTAGE	ON-OFF	N/A	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	N/A	N/A	N/A		20	ALCR	N/A	
J	CORRIDOR (ALL OTHER CORRIDORS)	LINE VOLTAGE	ON-OFF	N/A	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	N/A	N/A	N/A		20	N/A	N/A	
K	STORAGE ROOM (≥50 FT2 AND ≤ 1000 SQFT)	LINE VOLTAGE	ON-OFF	N/A	MANUAL ON / SENSOR OFF	ULTRASONIC	FULL 100%	N/A	N/A	N/A		20	N/A	N/A	
L	ELECTRICAL/MECHANICAL ROOM	LINE VOLTAGE	ON-OFF	N/A	MANUAL ON / MANUAL OFF	N/A	FULL 100%	N/A	N/A	N/A		N/A	ALCR	N/A	
M	RESTROOM (ALL OTHER RESTROOMS)	LINE VOLTAGE	ON-OFF	N/A	MANUAL ON / SENSOR OFF	ULTRASONIC	FULL 100%	N/A	N/A	N/A		20	N/A	N/A	
N	RESTROOM (ALL OTHER RESTROOMS)	LINE VOLTAGE	ON-OFF	N/A	SENSOR ON / SENSOR OFF	ULTRASONIC	FULL 100%	N/A	N/A	N/A		20	ALCR	N/A	
O	CONFERENCE/MEETING/MULTIPURPOSE ROOM	LOW VOLTAGE	ON-OFF-DIM	N/A	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	CONTINUOUS DIM	N/A	N/A		20	N/A	N/A	

NOTE:
 1. REFER TO PLANS FOR LOCATION OF LOCAL CONTROL.
 2. REFER TO PLANS FOR SCENE CONTROL.
 3. REFER TO PLANS FOR PRIMARY AND SECONDARY DAYLIGHT ZONES.
 4. PROVIDE EMERGENCY LIGHTING CIRCUIT CONTROL (BCELTS OR ALCR) PER SWITCHING CIRCUIT AS REQUIRED.
 5. CONTRACTOR SHALL PROVIDE FLOOR PLAN INDICATING SENSOR AND EQUIPMENT LOCATIONS OF CHOSEN CONTROL SYSTEM.
 6. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE CHARACTERISTICS.
 7. LIGHTING SENSOR SHALL HAVE CONTACT FOR HVAC CONTROL WHEN A "YES" SELECTION IS MADE IN THE HVAC CONTROL COLUMN.
 8. REFER TO TEMPERATURE CONTROL DRAWINGS AND DIAGRAMS FOR ADDITIONAL SENSOR REQUIREMENTS.
 9. PROVIDE WIRING CONTROL DIAGRAM FOR APPLICABLE CONTROL SYSTEM(S).

N/A = NOT APPLICABLE

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LIGHTING CONTROLLER DETAIL
NO SCALE

- NOTES**
- PROGRAM B.A.S. SYSTEM TIME SCHEDULE PER THE OWNER'S DIRECTION
 - PHOTO CELL SHALL CONTROL EXTERIOR LIGHTING VIA THE B.A.S. SYSTEM CONTROLS.

Bidding and Permits: 31 July 2023
 Owner Review: 14 July 2023
 Design Development: 08 May 2023

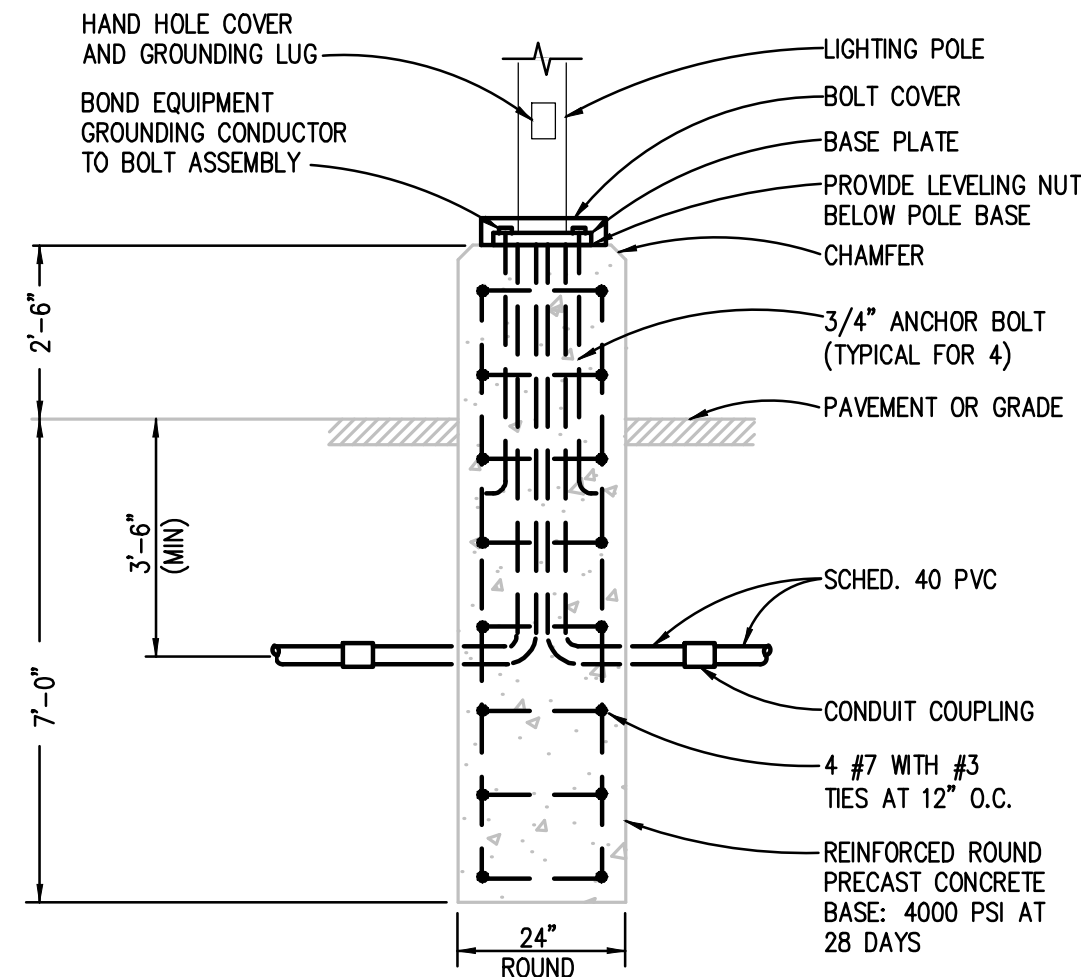
ELECTRICAL DETAILS AND DIAGRAMS

Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

E7.04

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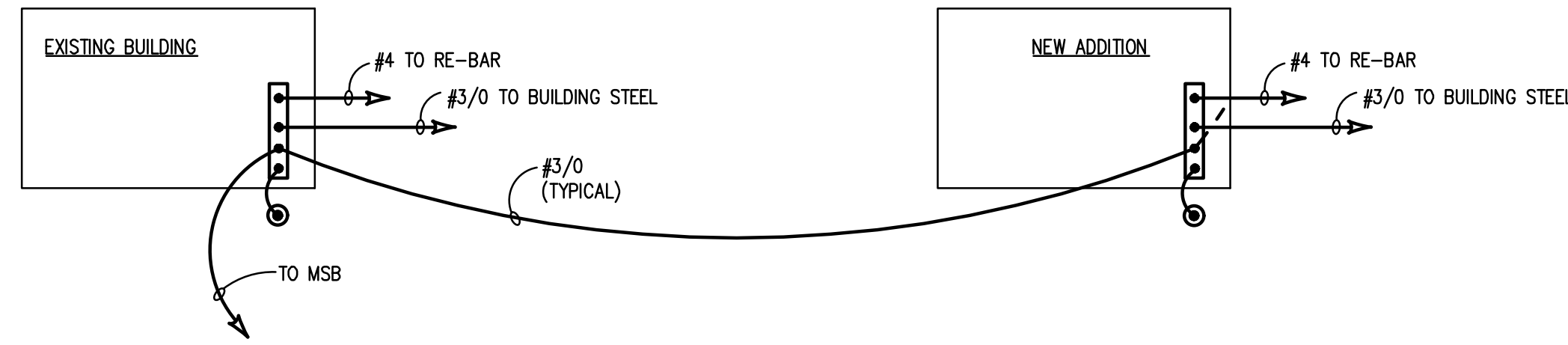


LIGHTING POLE BASE DETAIL

NO SCALE

NOTE:

1. PROVIDE PRECAST CONCRETE BASE AS MANUFACTURED BY NORTHERN CONCRETE PIPE, INC. OR APPROVED EQUAL.
2. CONCRETE REINFORCEMENTS SHALL BE BARE, ZINC GALVANIZED, OR ELECTRICALLY CONDUCTIVE COATED STEEL. BOND ALL CONCRETE REINFORCEMENTS AND ANCHOR BOLTS TOGETHER SO THAT SYSTEM IS ELECTRICALLY CONTINUOUS.

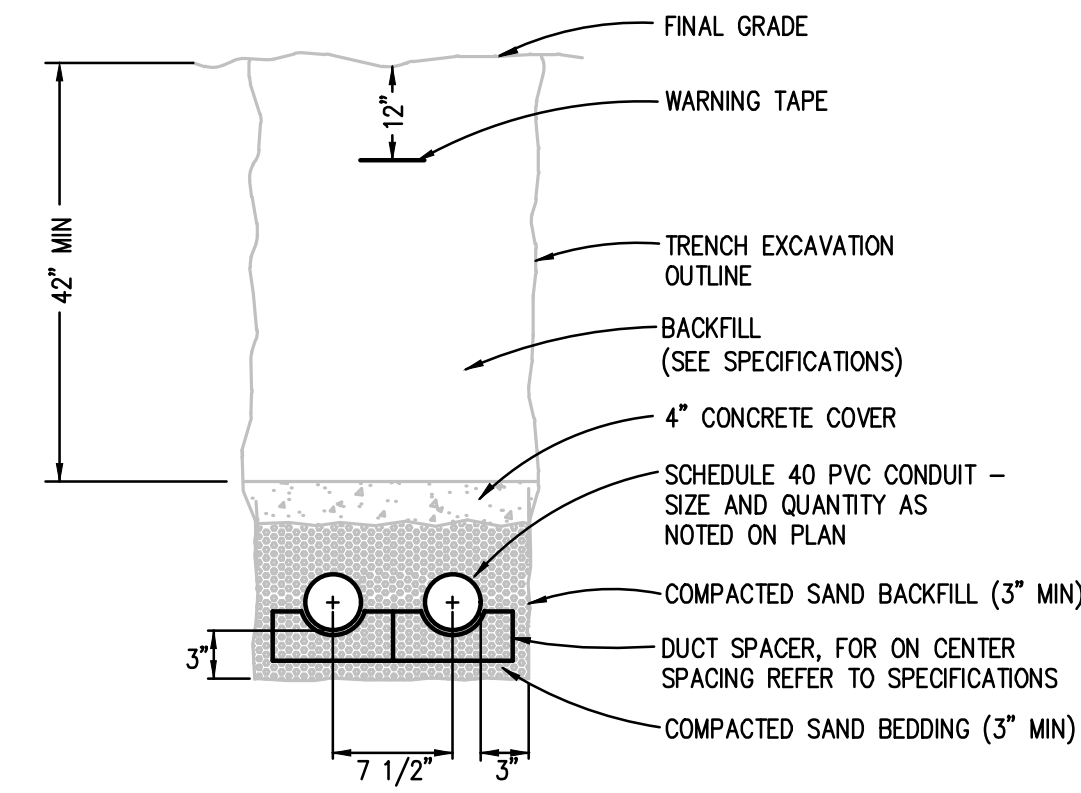


BUILDING GROUND SYSTEM DETAIL

NO SCALE

NOTES:

1. ALL CONDUCTORS SHALL BE COPPER.

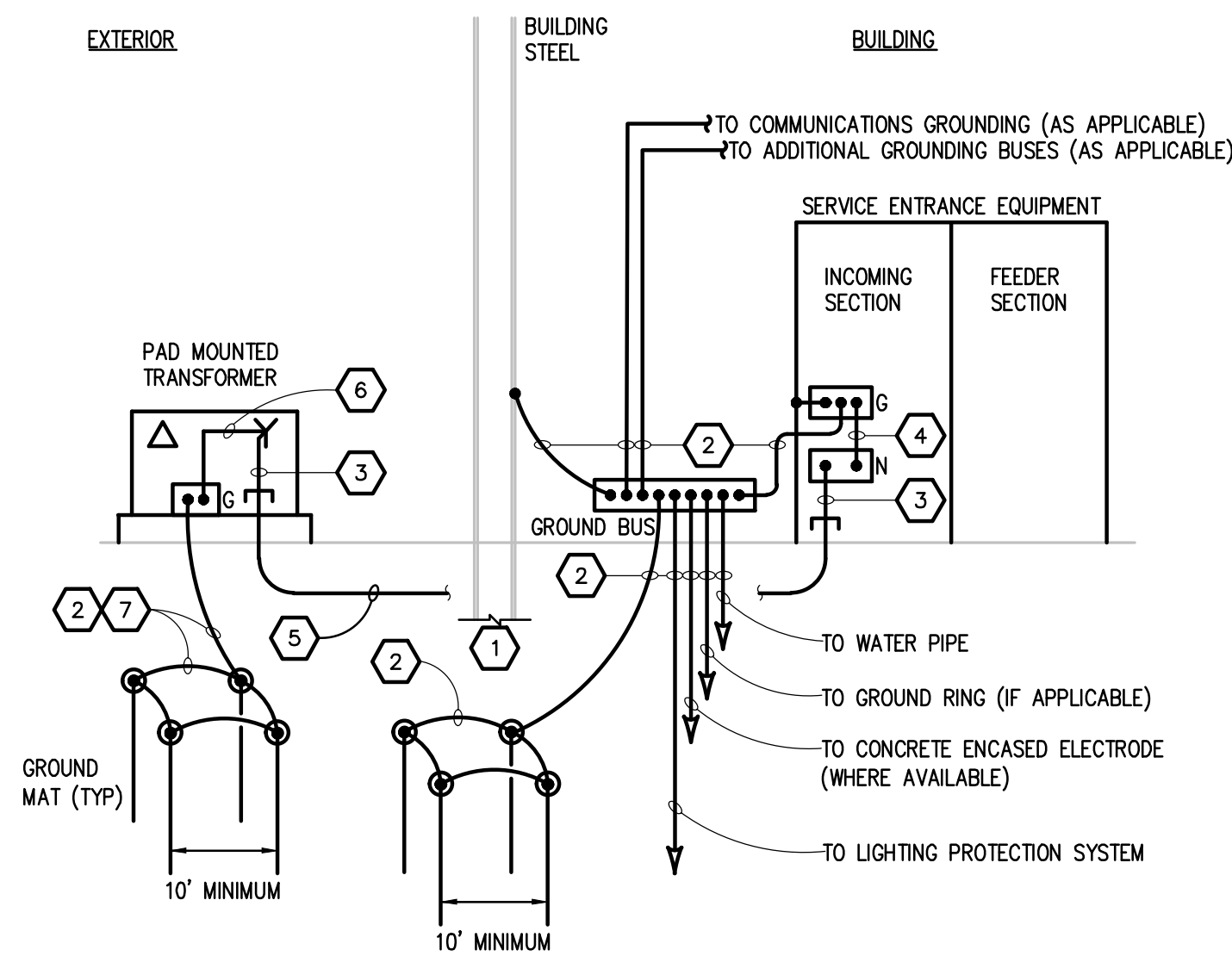


UNDERGROUND CONDUIT DETAIL

NO SCALE

NOTES:

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

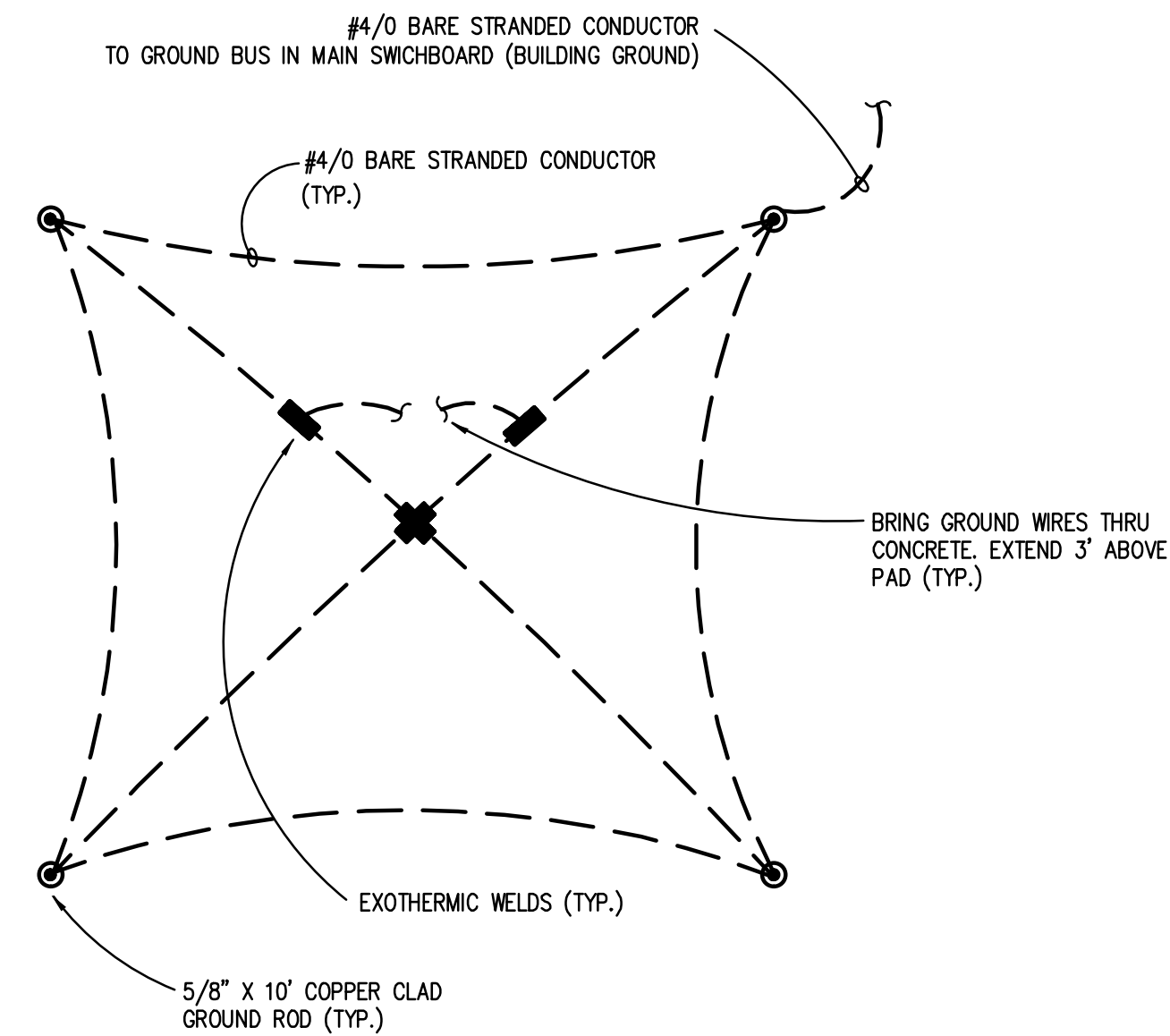


TYPICAL SECONDARY SERVICE ENTRANCE GROUNDING

NO SCALE

KEYED NOTES:

1. METAL IN-GROUND SUPPORT STRUCTURE IN DIRECT CONTACT WITH EARTH VERTICALLY FOR A MINIMUM OF 10FT, WHERE AVAILABLE.
2. GROUNDING ELECTRODE CONDUCTOR, #4/0 COPPER.
3. GROUNDED CONDUCTOR (NEUTRAL), SEE ONE LINE DIAGRAM.
4. MAIN BONDING JUMPER, PROVIDED BY MANUFACTURER AS PART OF LISTED EQUIPMENT SIZED PER NEC 250.28 AND 250.102.
5. SERVICE ENTRANCE PHASE CONDUCTORS AND GROUNDED CONDUCTOR IN CONDUIT. SEE ONE LINE DIAGRAM.
6. CONNECTION FROM GROUNDED SERVICE CONDUCTOR TO GROUNDING ELECTRODE AT THE TRANSFORMER PER NEC 250.24. COORDINATE WITH UTILITY.
7. COORDINATE REQUIREMENTS WITH UTILITY COMPANY PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY GROUND RODS AND CONDUCTORS TO MEET UTILITY COMPANY REQUIREMENTS.

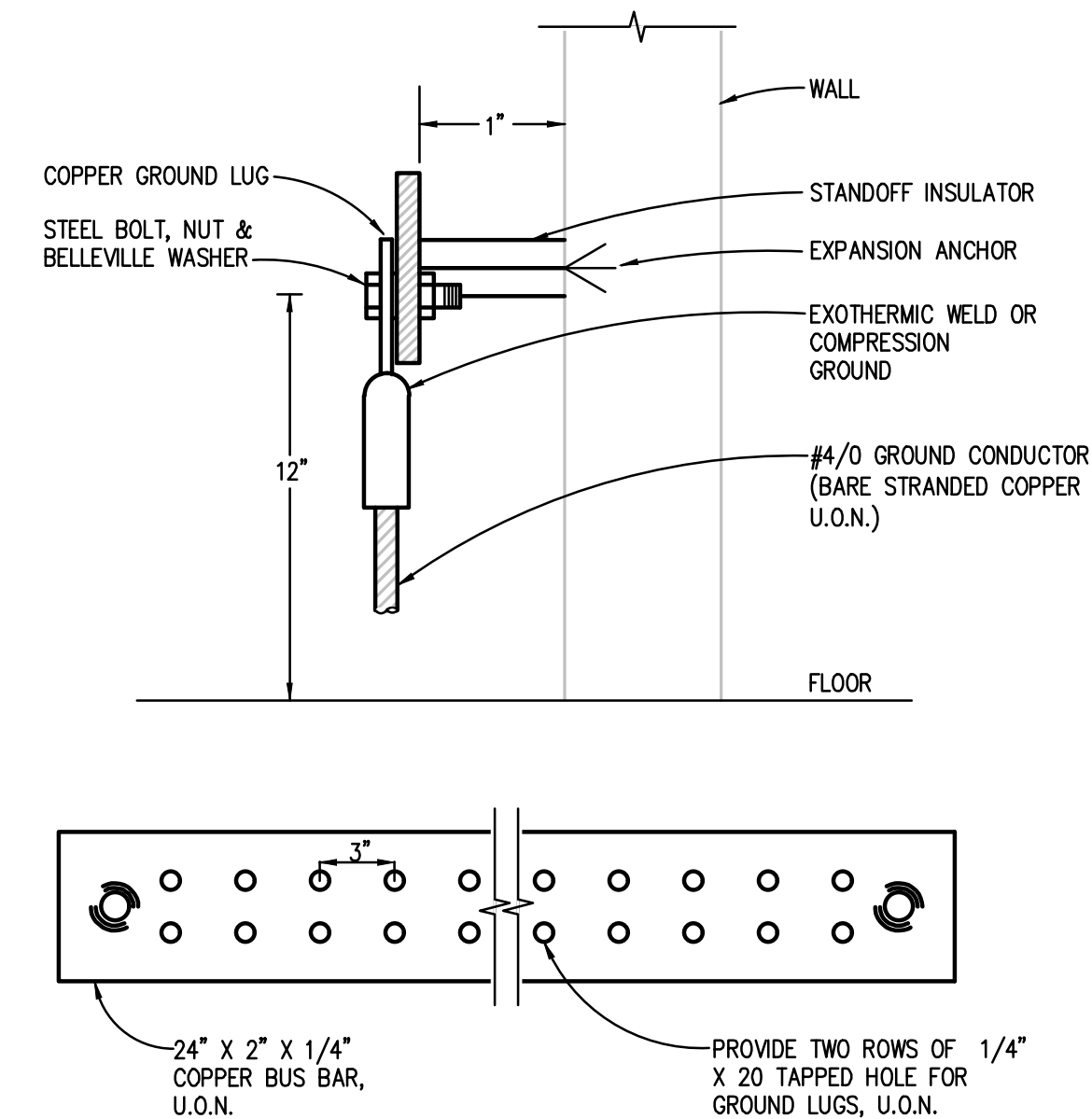


BUILDING GROUND MAT DETAIL

NO SCALE

NOTES:

1. CONTRACTOR SHALL PROVIDE ADDITIONAL GROUND RODS AS REQUIRED TO MEET DIVISION 26 SYSTEM IMPEDANCE REQUIREMENTS.



ELECTRICAL GROUND BUS DETAIL

NO SCALE

g:\2022\2022-04-19-00\CAD\2022-04-19-E7-DT.dwg, E7.05, 7/28/2023 1:46:40 PM, Dominic P. Maceeri, Peter Basso Associates Inc.

Bidding and Permits: 31 July 2023

Owner Review: 14 July 2023

Design Development: 08 May 2023

ELECTRICAL DETAILS AND DIAGRAMS



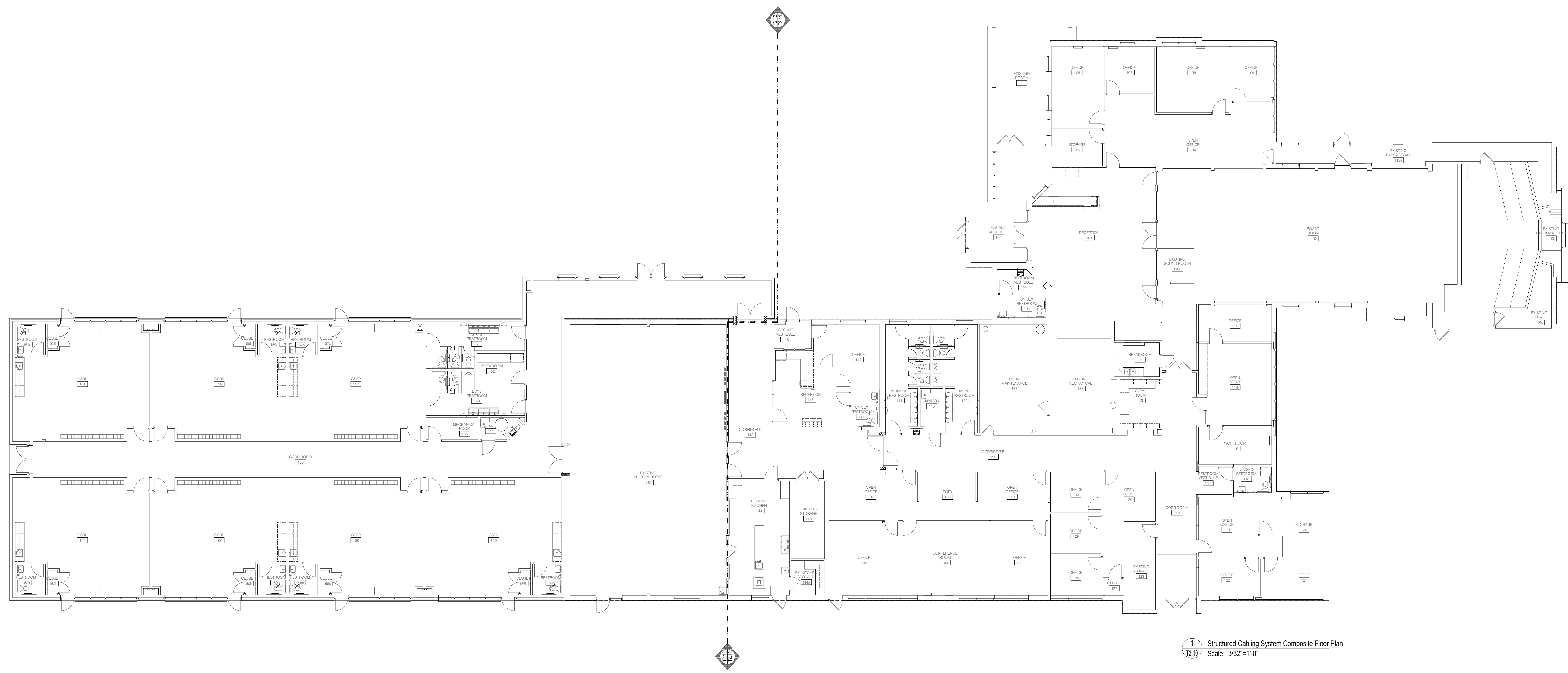
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

E7.05

Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-679-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0419

- GENERAL NOTES:**
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
 - G2. COMPOSITE PLAN ISSUED FOR REFERENCE ONLY.
 - G3. REFER TO SHEETS T2.11 AND T2.12 FOR FURTHER INFORMATION.



1 Structured Cabling System Composite Floor Plan
 T2.10 Scale: 3/32"=1'-0"

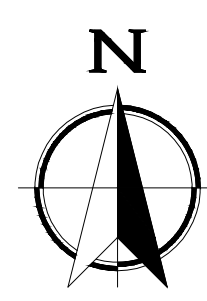
Permits & Bidding: 31 July 2023

Structured Cabling System Composite Floor Plan
EHRESMAN ARCHITECTS
 ehresmanarchitects.com

Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

T2.10



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 Fax: (248) 594-5851
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GENERAL NOTES:

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

GENERAL STRUCTURED CABLING NOTES

- ELECTRICAL CONTRACTOR TO PROVIDE ALL BACKBOXES, CONDUITS, AND SLEEVES FOR STRUCTURED CABLING. REFER TO ELECTRICAL PLANS.
- STRUCTURED CABLING CONTRACTOR SHALL FIRESTOP ALL SLEEVES AND CORES PROVIDED FOR STRUCTURED CABLING.

KEYED STRUCTURED CABLING NOTES

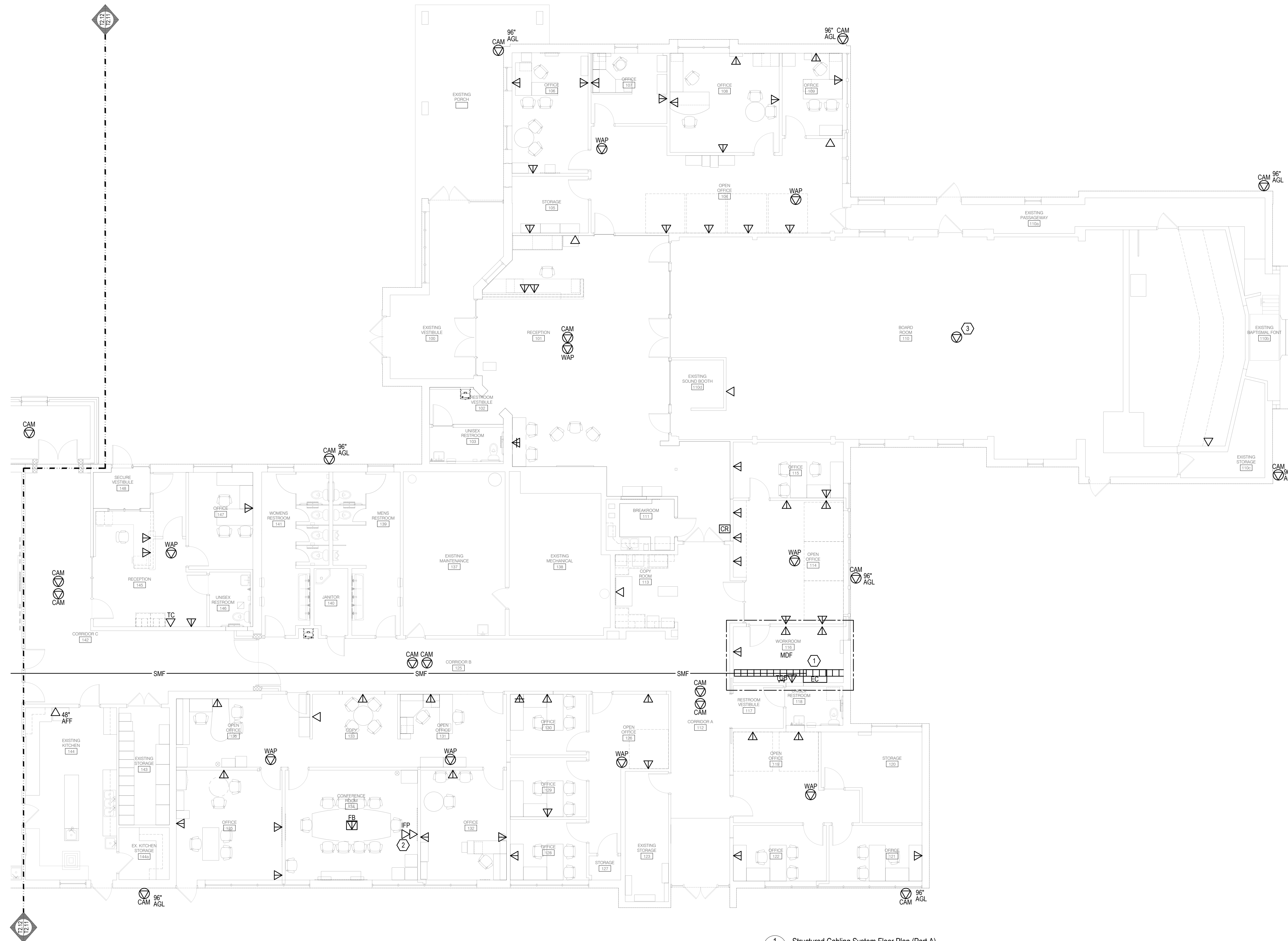
- FIELD COORDINATE EXACT LOCATION OF EQUIPMENT CABINET AND LADDER RACK WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE FINAL LOCATION WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- CEILING MOUNTED DATA DROP FOR IP VIDEO STREAMING CAMERA. FIELD COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.

STRUCTURED CABLING ABBREVIATIONS

MDF	MAIN DISTRIBUTION FRAME
IDF	INTERMEDIATE DISTRIBUTION FRAME
A.F.F.	ABOVE FINISHED FLOOR
A.G.L.	ABOVE GROUND LEVEL
U.N.O.	UNLESS NOTED OTHERWISE

STRUCTURED CABLING SYMBOL LEGEND

▽	SINGLE DATA OUTLET - WALL MOUNTED 1-GANG ONE (1) CATEGORY 6 UTP
▽	DOUBLE DATA OUTLET - WALL MOUNTED 1-GANG TWO (2) CATEGORY 6 UTP
TS	DOUBLE DATA OUTLET - WALL MOUNTED 2-GANG FOR TEACHER STATION TWO (2) CATEGORY 6 UTP
IFP	SINGLE DATA OUTLET - WALL MOUNTED 2-GANG FOR INTERACTIVE FLAT PANEL ONE (1) CATEGORY 6 UTP
CAM	SINGLE DATA OUTLET - IN CEILING SURFACE MOUNTED FOR SECURITY CAMERA ONE (1) CATEGORY 6 UTP
WAP	SINGLE DATA OUTLET - IN CEILING SURFACE MOUNTED FOR WIRELESS ACCESS POINT ONE (1) CATEGORY 6 UTP
EC	EQUIPMENT CABINET
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR PROVIDED BY ELECTRICAL CONTRACTOR
SMF	SINGLE-MODE FIBER OPTIC BACKBONE



1 Structured Cabling System Floor Plan (Part A)
Scale: 1/8"=1'-0"

Permits & Bidding: 31 July 2023

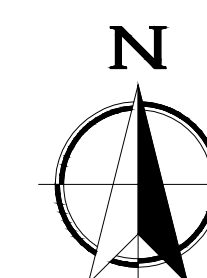
Structured Cabling System Floor Plan (Part A)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

T2.11



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GENERAL NOTES:

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GENERAL STRUCTURED CABLING NOTES

- ELECTRICAL CONTRACTOR TO PROVIDE ALL BACKBOXES, CONDUITS, AND SLEEVES FOR STRUCTURED CABLING. REFER TO ELECTRICAL PLANS.
- STRUCTURED CABLING CONTRACTOR SHALL FIRESTOP ALL SLEEVES AND CORES PROVIDED FOR STRUCTURED CABLING.

KEYED STRUCTURED CABLING NOTES (#)

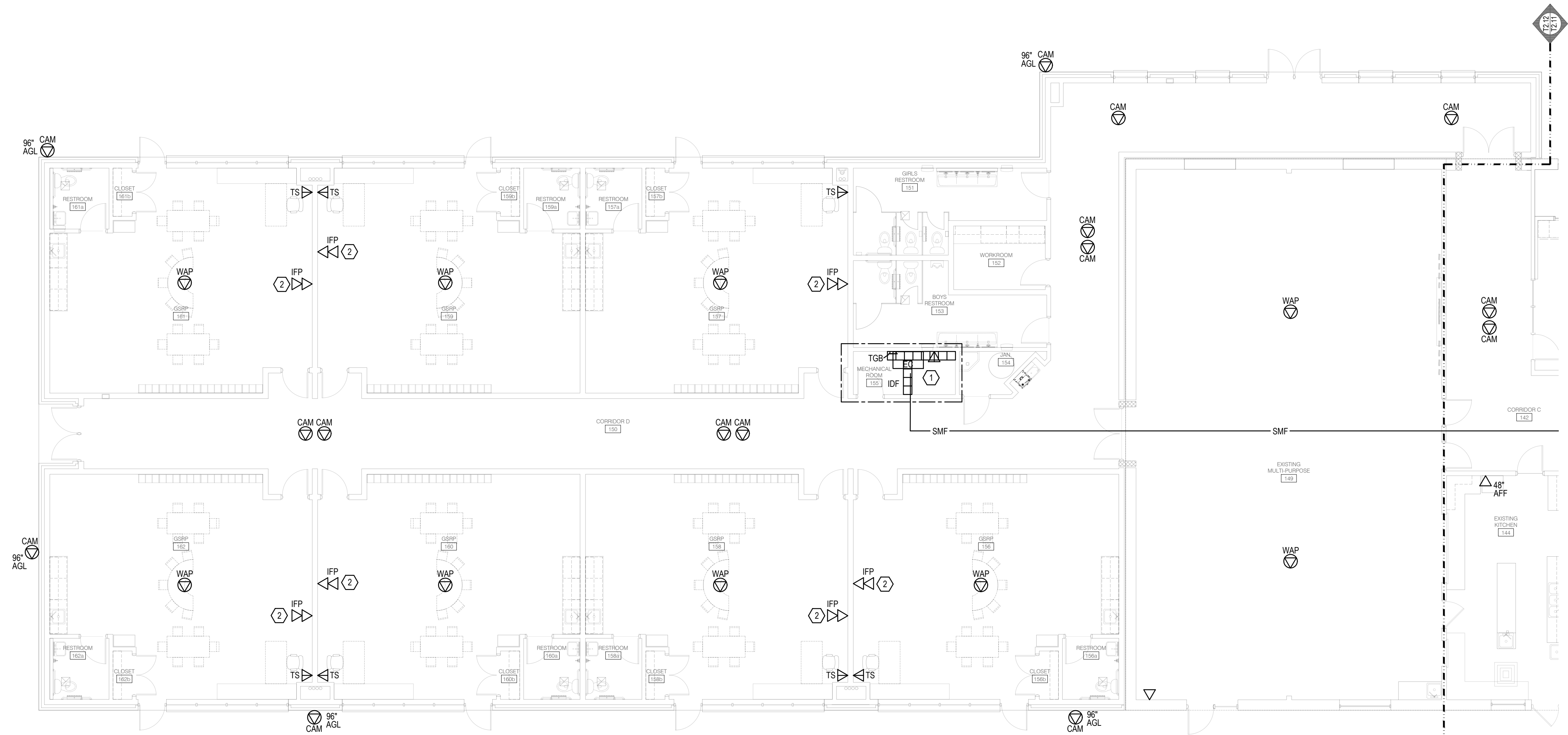
- FIELD COORDINATE EXACT LOCATION OF EQUIPMENT CABINET AND LADDER RACK WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE FINAL LOCATION WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

STRUCTURED CABLING ABBREVIATIONS

MDF	MAIN DISTRIBUTION FRAME
IDF	INTERMEDIATE DISTRIBUTION FRAME
A.F.F.	ABOVE FINISHED FLOOR
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▽	DOUBLE DATA OUTLET - WALL MOUNTED 2-GANG FOR TEACHER STATION TWO (2) CATEGORY 6 UTP
▽	SINGLE DATA OUTLET - WALL MOUNTED 2-GANG FOR INTERACTIVE FLAT PANEL ONE (1) CATEGORY 6 UTP
▽	SINGLE DATA OUTLET - IN CEILING SURFACE MOUNTED FOR SECURITY CAMERA ONE (1) CATEGORY 6 UTP
▽	SINGLE DATA OUTLET - IN CEILING SURFACE MOUNTED FOR WIRELESS ACCESS POINT ONE (1) CATEGORY 6 UTP
EC	EQUIPMENT CABINET
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR PROVIDED BY ELECTRICAL CONTRACTOR
SMF	SINGLE-MODE FIBER OPTIC BACKBONE



1 Structured Cabling System Floor Plan (Part B)
T2.12 Scale: 1/8"=1'-0"

Permits & Bidding: 31 July 2023

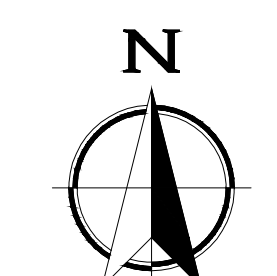
Structured Cabling System Floor Plan (Part B)



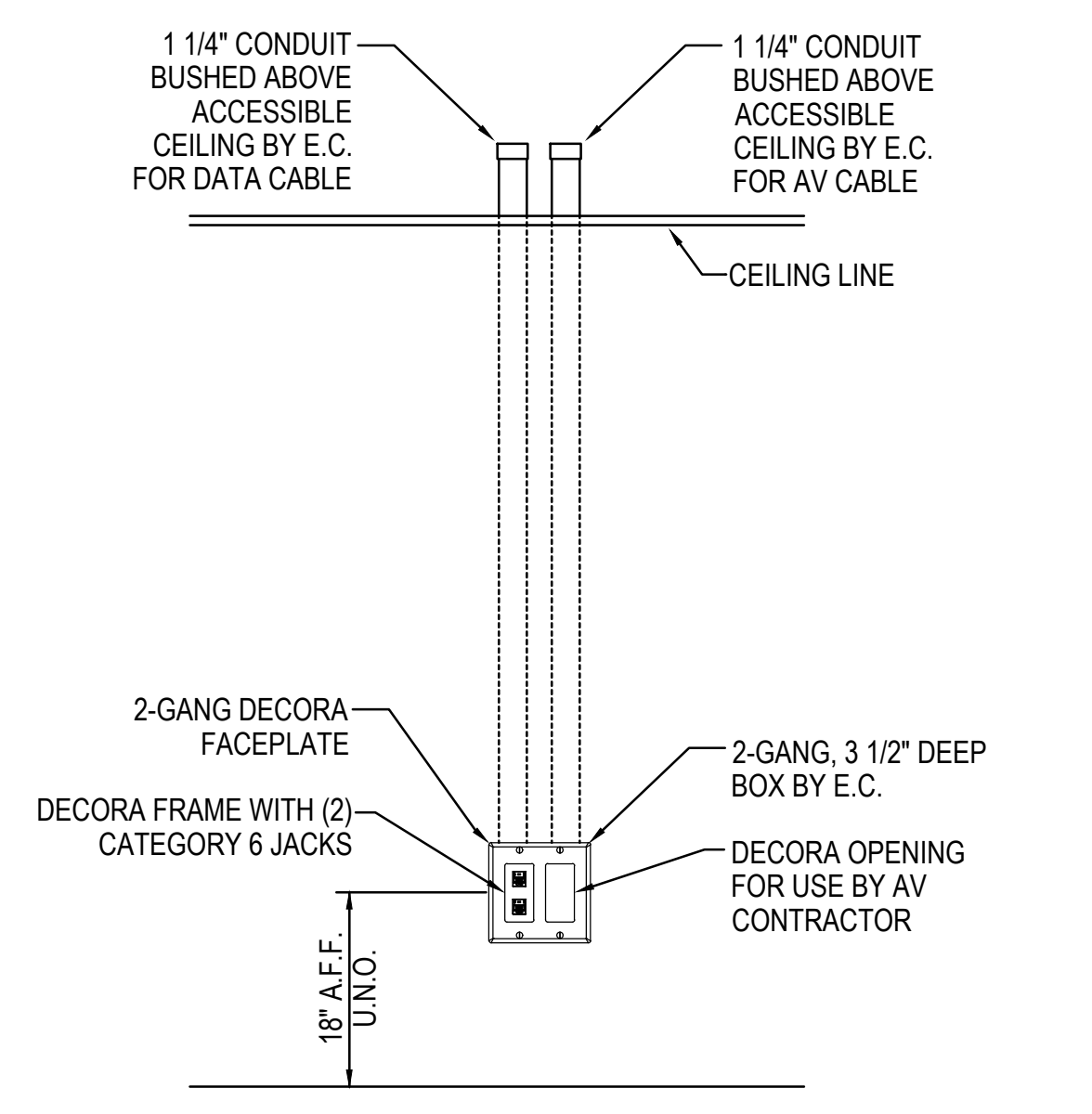
Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

T2.12

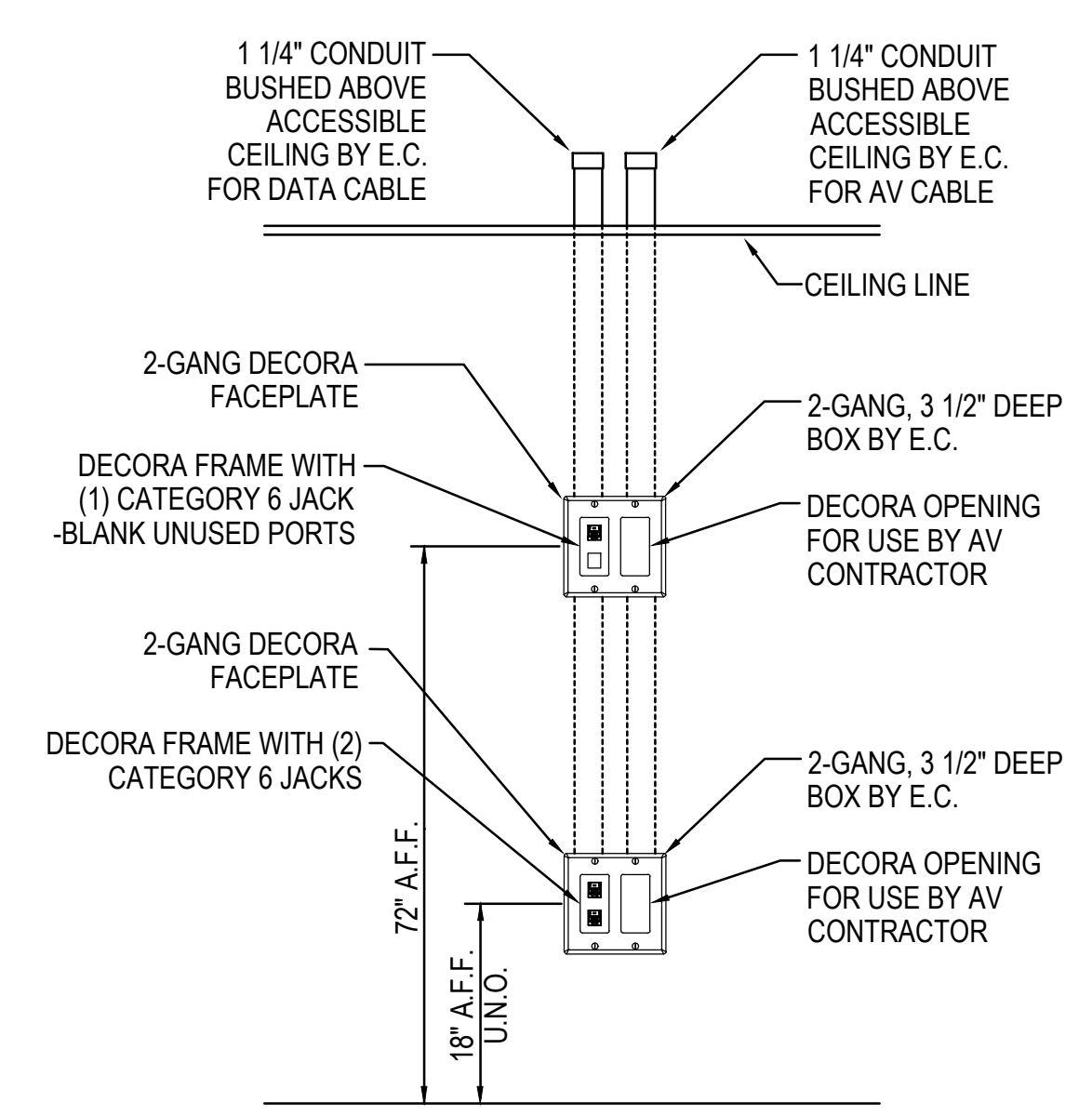


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Tel: (248) 594-5850
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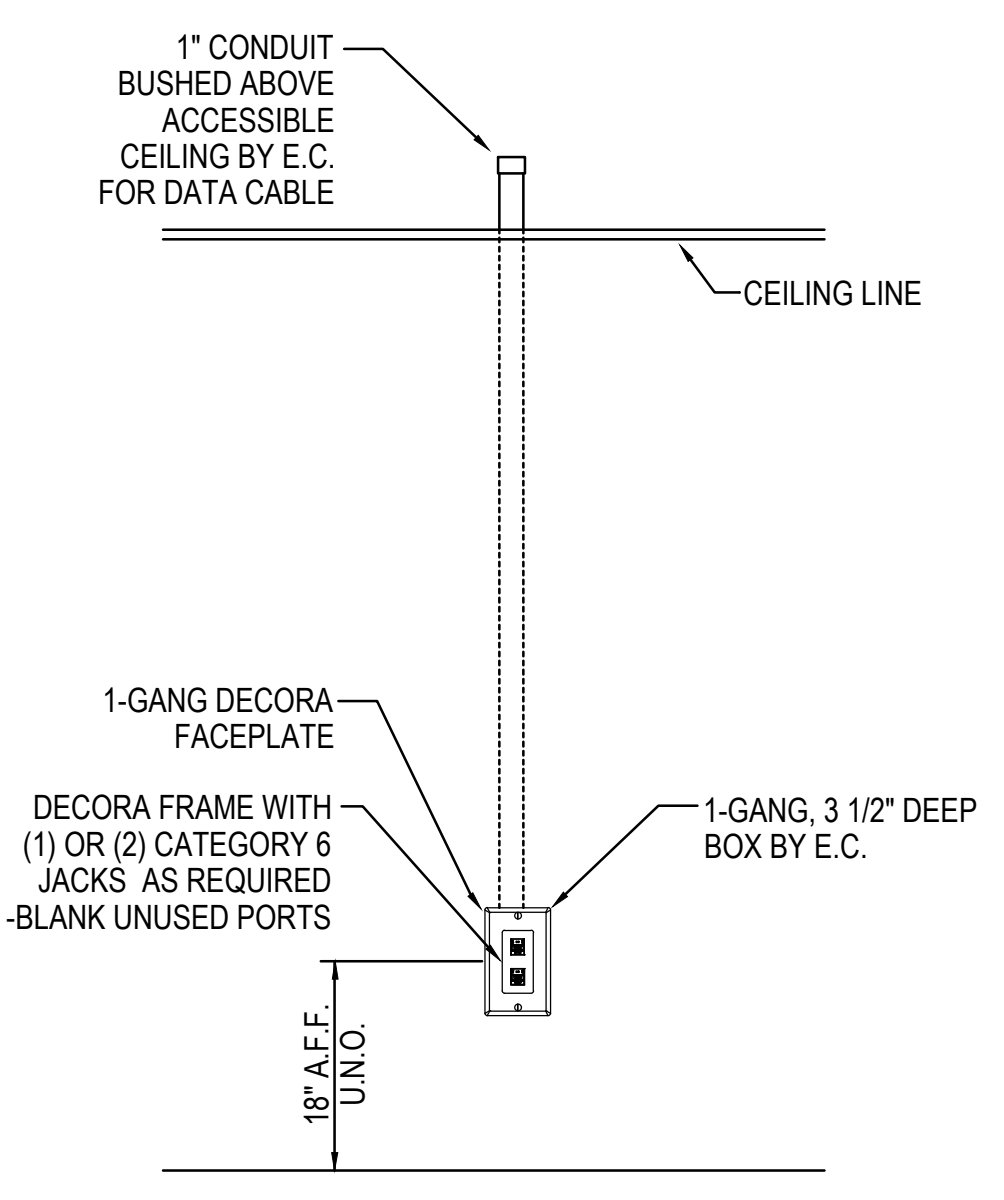
1 | TEACHER STATION LOCATIONS

N.T.S. SYMBOLS:



2 | INTERACTIVE FLAT PANEL LOCATIONS

N.T.S. SYMBOLS:



3 | SINGLE & DOUBLE DATA LOCATIONS

N.T.S. SYMBOLS:

1 Structured Cabling System Details
 T7.01 Scale: Not to Scale

Permits & Bidding: 31 July 2023

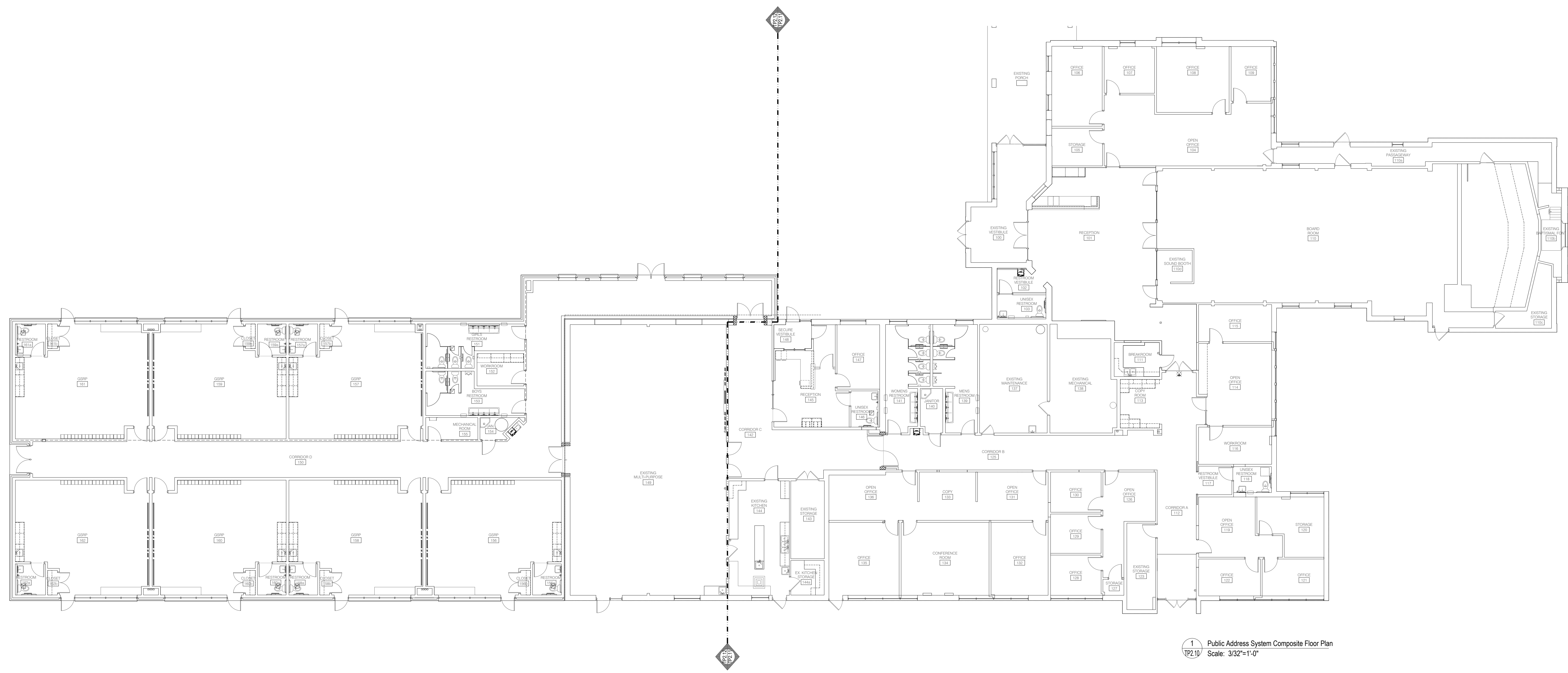


Crestwood School District
 Cherry Hill Baptist Church
 Administration Relocation and Addition

Project No. 3221

T7.01

- GENERAL NOTES:**
- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
 - G2. COMPOSITE PLAN ISSUED FOR REFERENCE ONLY.
 - G3. REFER TO SHEETS TP2.11 AND TP2.12 FOR FURTHER INFORMATION.



Permits & Bidding: 31 July 2023

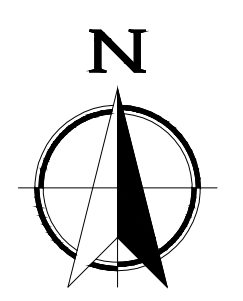
Public Address System Composite Floor Plan

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Crestwood School District
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Project No. 3221

TP2.10



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GENERAL NOTES:

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PUBLIC ADDRESS SYSTEM ABBREVIATIONS

MDF MAIN DISTRIBUTION FRAME
 IDF INTERMEDIATE DISTRIBUTION FRAME

PUBLIC ADDRESS SYSTEM SYMBOL LEGEND

(S) CEILING SPEAKER
 (S) WALL MOUNTED SPEAKER - VANDAL PROOF
 VP



1 Public Address System Floor Plan (Part A)
 TP2.11 Scale: 1/8"=1'-0"

Permits & Bidding: 31 July 2023

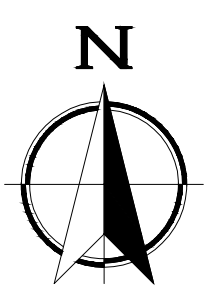
Public Address System Floor Plan (Part A)



Crestwood School District
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 Administration Relocation and Addition

Project No. 3221

TP2.11



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GENERAL NOTES:

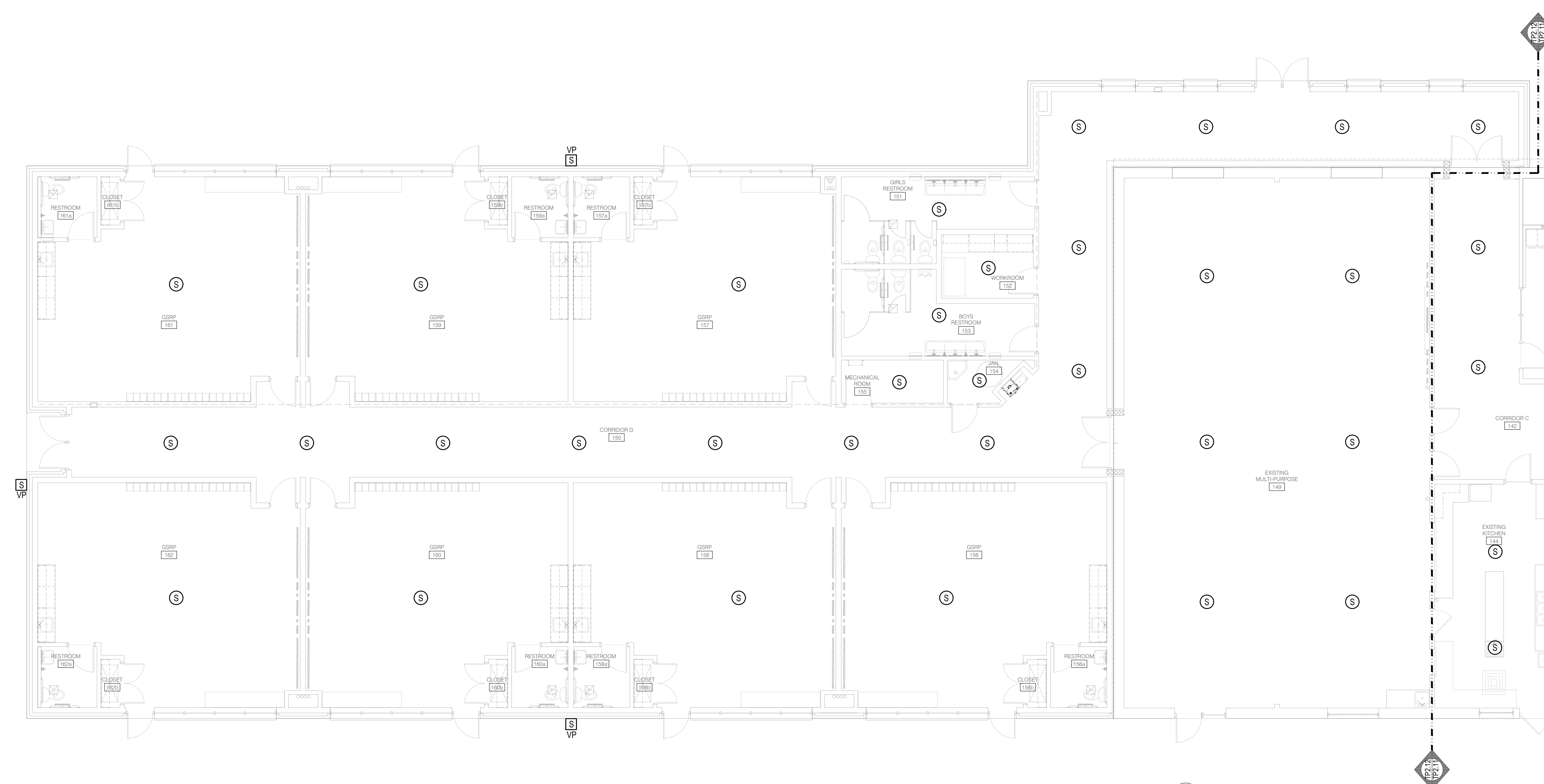
G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

PUBLIC ADDRESS SYSTEM ABBREVIATIONS

MDF MAIN DISTRIBUTION FRAME
IDF INTERMEDIATE DISTRIBUTION FRAME

PUBLIC ADDRESS SYSTEM SYMBOL LEGEND

(S) CEILING SPEAKER
[S] WALL MOUNTED SPEAKER - VANDAL PROOF



1 Public Address System Floor Plan (Part B)
TP2.12 Scale: 1/8"=1'-0"

Permits & Bidding: 31 July 2023

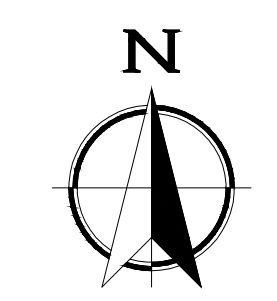
Public Address System Floor Plan (Part B)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

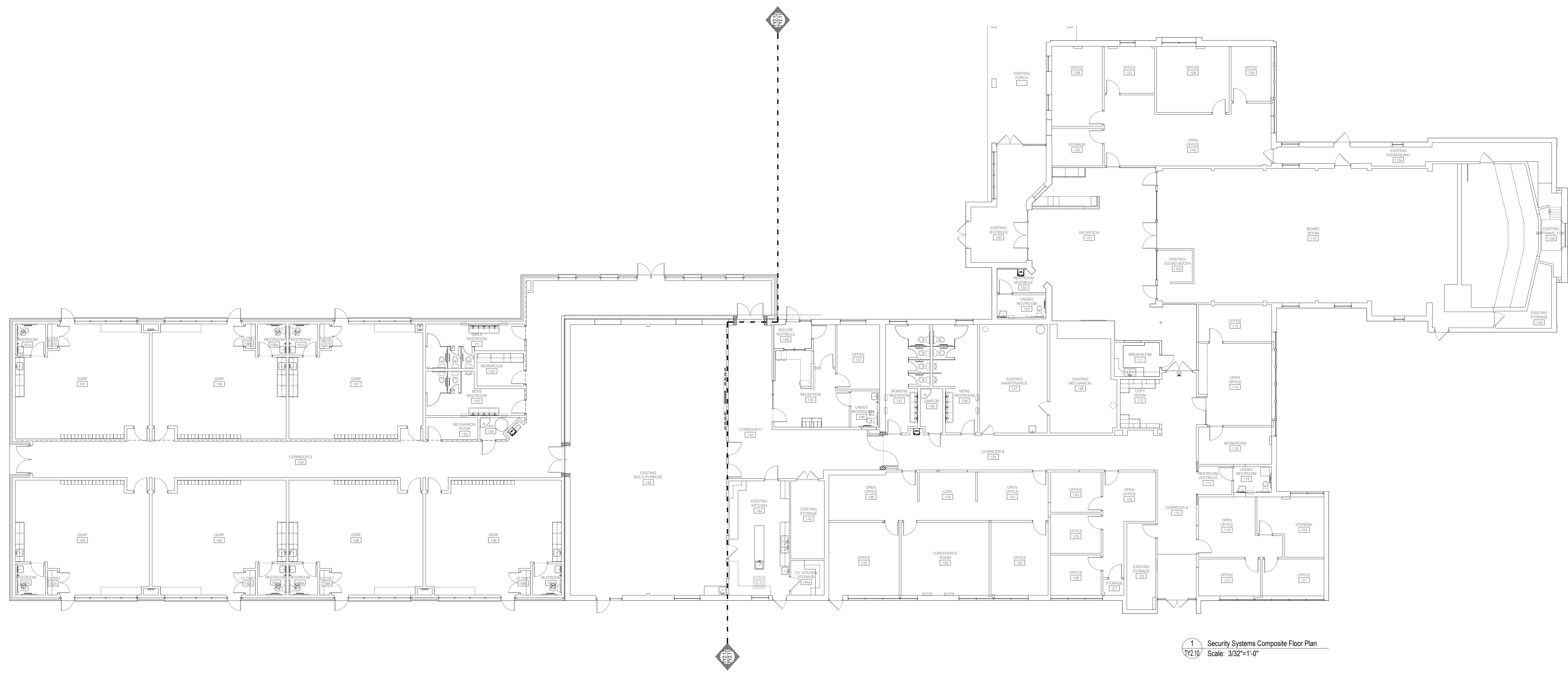
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Permits & Bidding: 31 July 2023

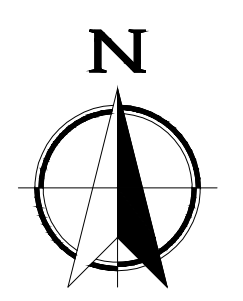
Security Systems Composite Floor Plan



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

TY2.10



W & H
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Royal Oak, MI 48067
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GENERAL NOTES:

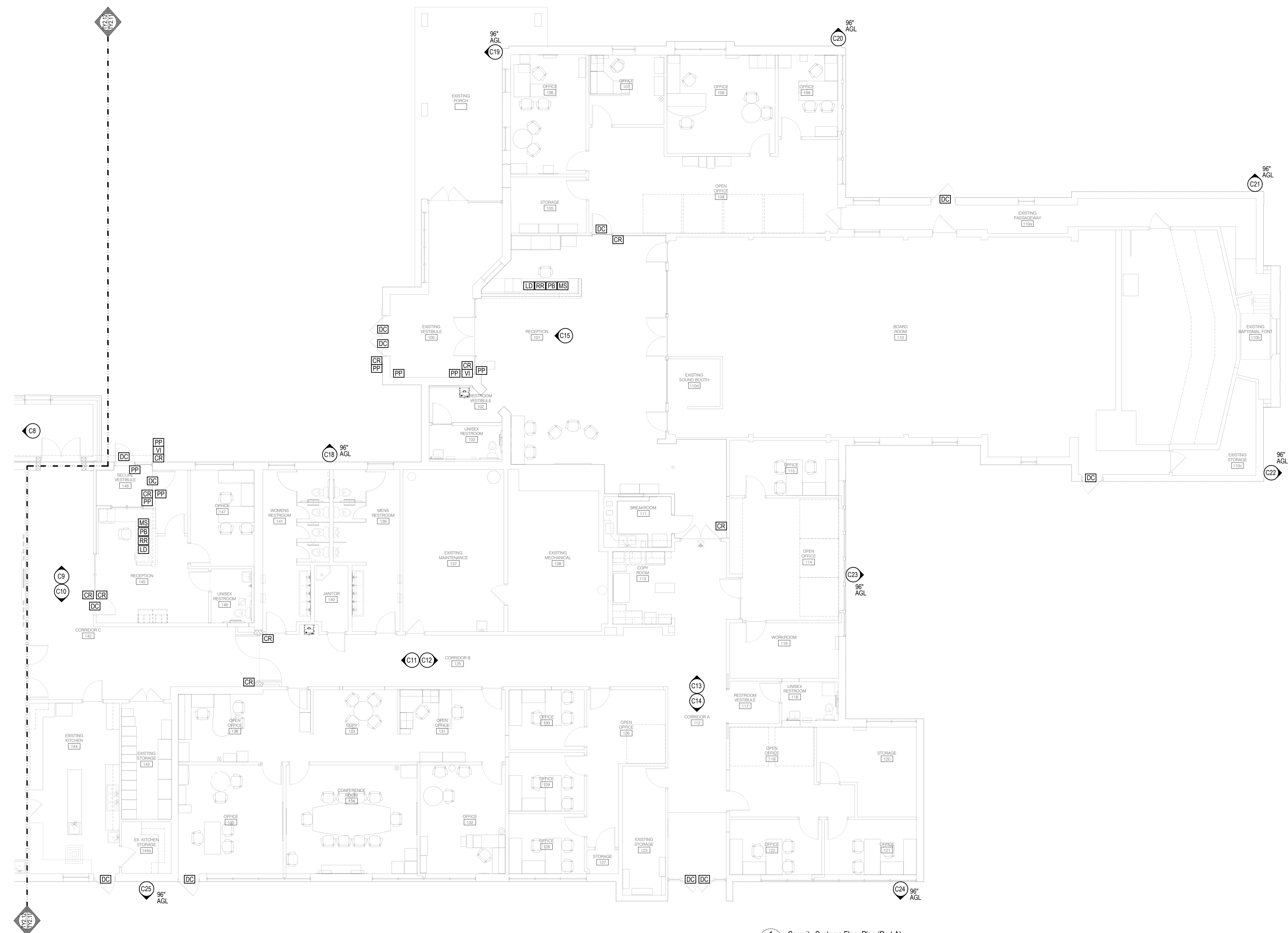
G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

GENERAL SECURITY SYSTEM NOTES

1. LENS DIRECTIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY INTENDED VIEW WITH OWNER DURING INSTALLATION.

SECURITY SYSTEM SYMBOL LEGEND

- C# VIDEO SURVEILLANCE CAMERA - # INDICATES CAMERA NUMBER. SEE CAMERA SCHEDULE ON THIS SHEET FOR CAMERA MODEL.
- VI VIDEO INTERCOM
- CR CARD READER
- PP PUSH PLATE
- DC DOOR CONTACT
- MS MASTER STATION
- RR REMOTE RELEASE
- PB PANIC BUTTON
- LD LOCK DOWN BUTTON



1 Security Systems Floor Plan (Part A)
Scale: 1/8"=1'-0"

Permits & Bidding: 31 July 2023

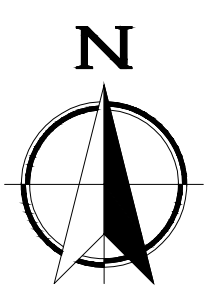
Security Systems Floor Plan (Part A)



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project No. 3221

TY2.11



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Royal Oak, MI 48067
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GENERAL NOTES:

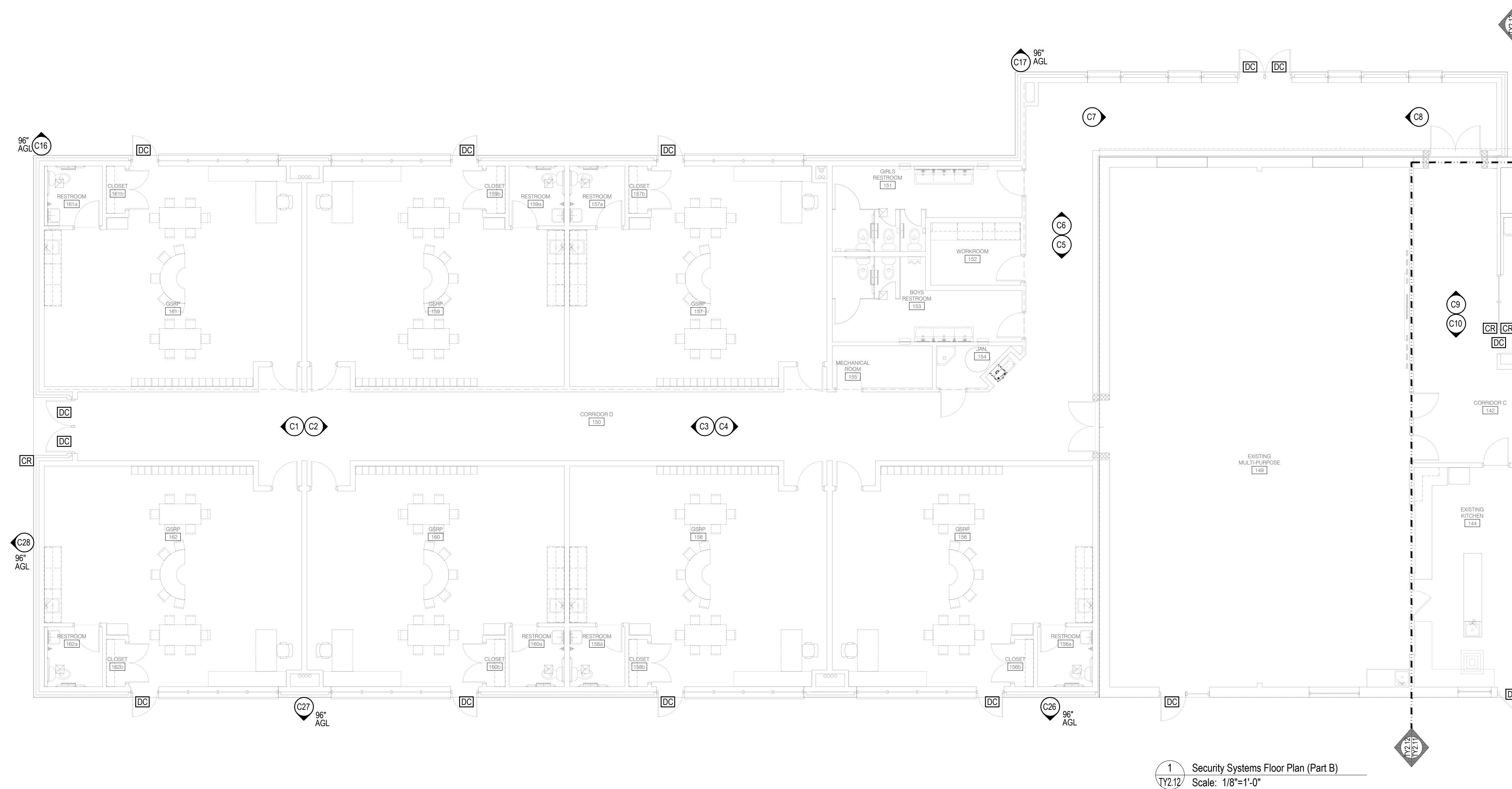
G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.

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- CR CARD READER
- PP PUSH PLATE
- DC DOOR CONTACT
- MS MASTER STATION
- RR REMOTE RELEASE
- PB PANIC BUTTON
- LD LOCK DOWN BUTTON



1 Security Systems Floor Plan (Part B)
Scale: 1/8"=1'-0"

Permits & Bidding: 31 July 2023

Security Systems Floor Plan (Part B)

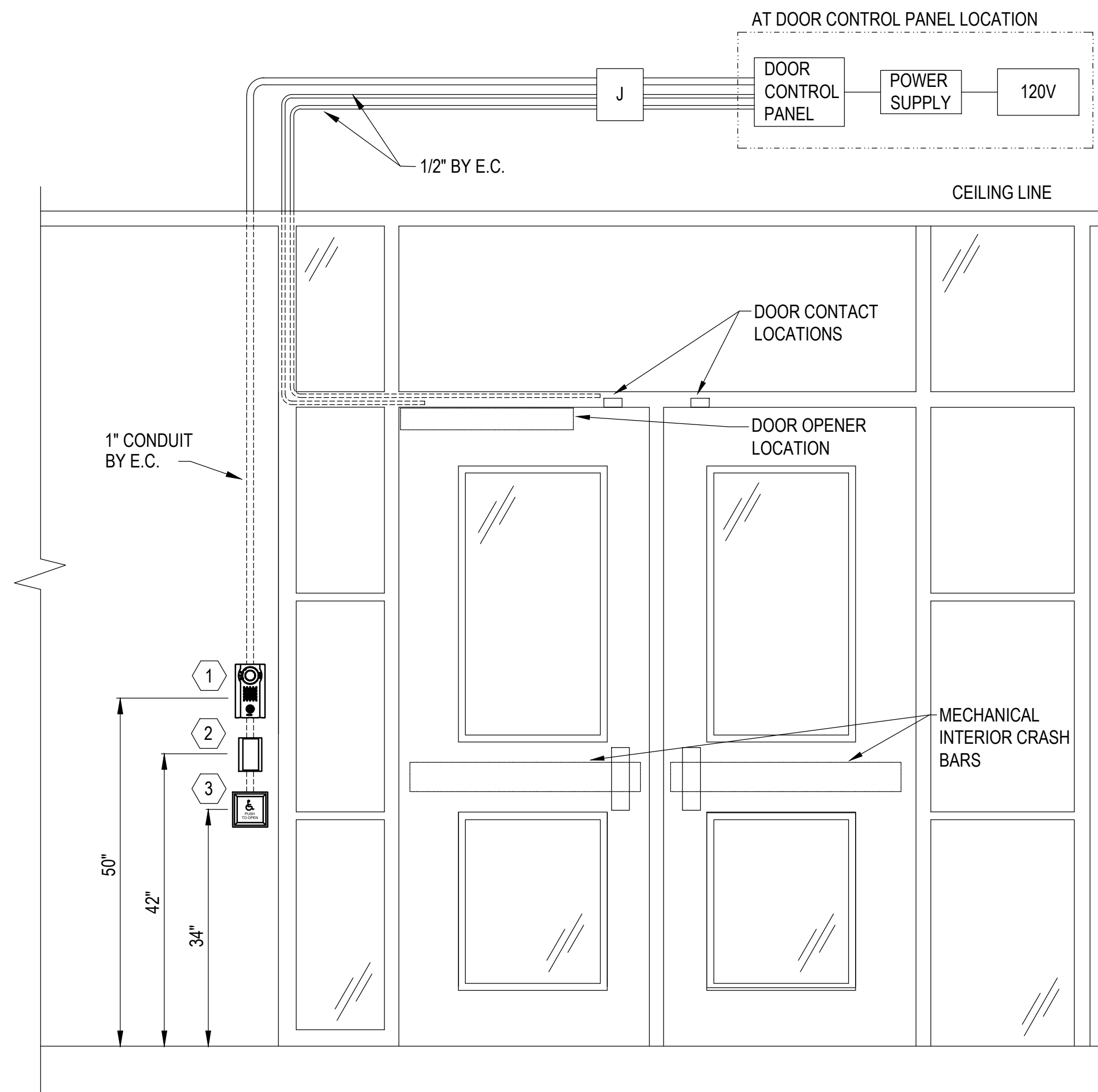


Crestwood School District
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Administration Relocation and Addition

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TY2.12



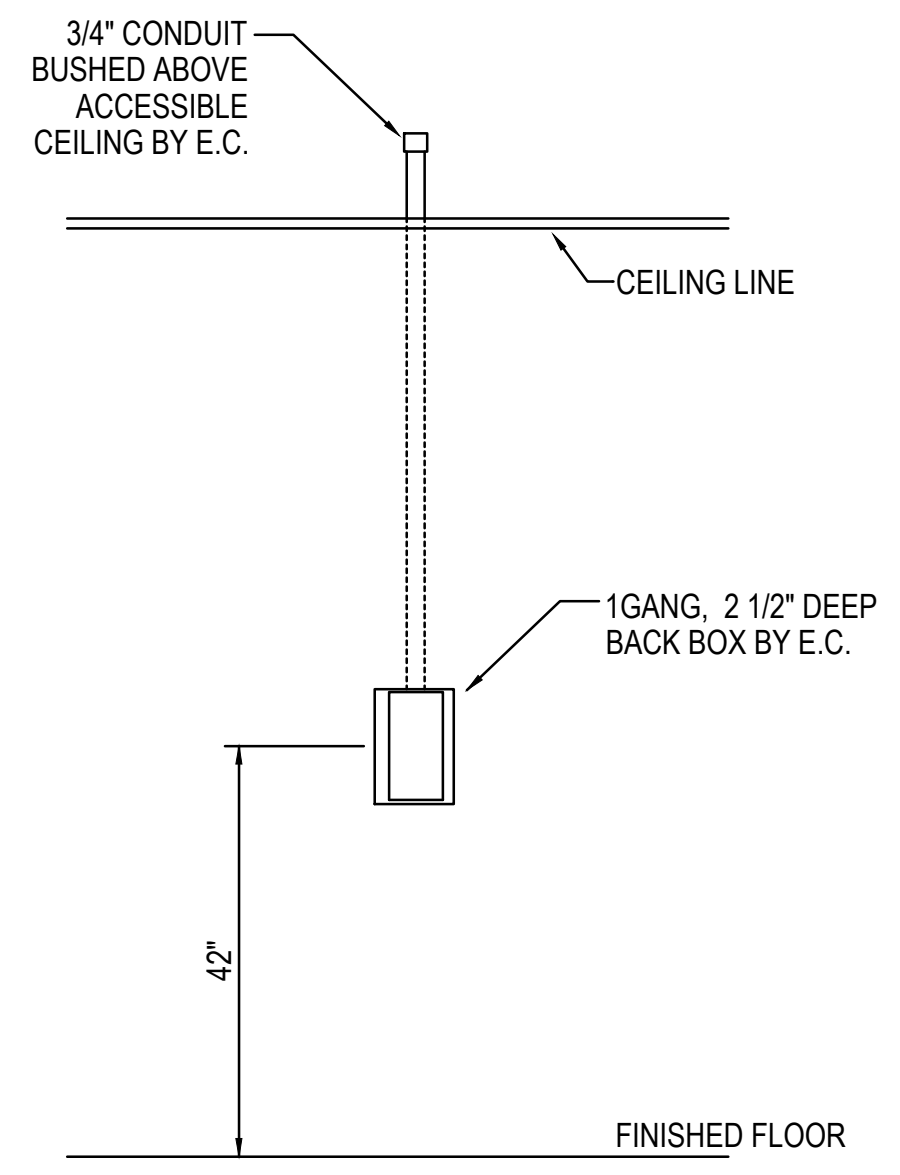


1 | SECURE ENTRIES DETAIL

N.T.S. SYMBOL: VI CR PP

KEYED NOTES (#)

- 1. VIDEO INTERCOM - SINGLE GANG BACKBOX PROVIDED BY E.C.
- 2. CARD READER - SINGLE GANG BACKBOX PROVIDED BY E.C.
- 3. PUSH PLATE - SINGLE GANG BACKBOX PROVIDED BY E.C.



2 | SINGLE CARD READER DETAIL

N.T.S. SYMBOLS: CR

1 Security Systems Details
TY2.11 Not to Scale

Permits & Bidding: 31 July 2023

Security Systems Details

ehresmanarchitects.com

Crestwood School District
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TY7.01

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