

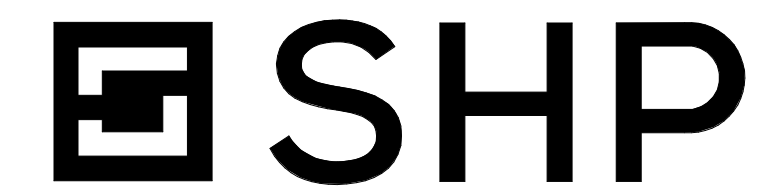
MOBEL

BID/PERMIT SET FOR

JEFFERSON TOWNSHIP LOCAL SCHOOL DISTRICT

AGRICULTURE EDUCATION FACILITY

2701 SOUTH UNION ROAD, DAYTON OH 45417



SHP - ARCHITECT

312 Plum Street, Suite 700, Cincinnati, OH 45202
PHONE: (513) 381-2112

GOP LIMITED - STRUCTURAL ENGINEER

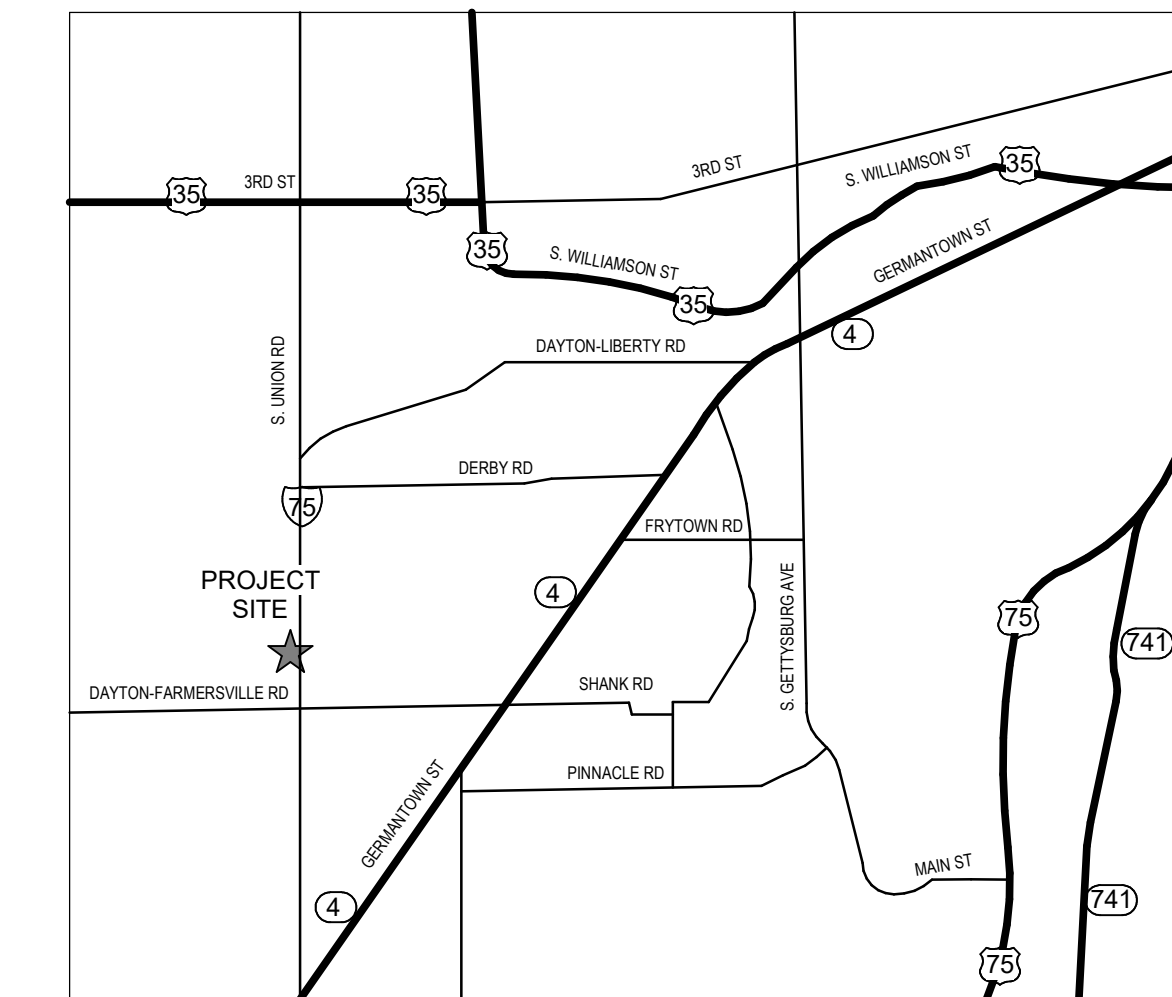
431 Ohio Pike, Suite 100N, Cincinnati, OH 45255
PHONE: (513) 621-7073

SHP - PME ENGINEER

312 Plum Street, Suite 700, Cincinnati, OH 45202
PHONE: (513) 381-2112

THE KLEINGERS GROUP - CIVIL ENGINEER

6219 Centre Park Drive, West Chester, OH 45069
PHONE: (513) 779-7851



VICINITY MAP
NTS



SHP
312 PLUM STREET, SUITE 700
CINCINNATI, OH 45202 - 513.381.2112

JEFFERSON TOWNSHIP HIGH SCHOOL
AGRICULTURE EDUCATION FACILITY
2701 SOUTH UNION ROAD, DAYTON OH 45417
JEFFERSON TOWNSHIP LOCAL SCHOOL DISTRICT
2625 SOUTH UNION ROAD, DAYTON OH 45417

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P500 PLUMBING SITE PLAN

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M001 MECHANICAL DETAILS
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ISSUANCES

03-01-24 DESIGN DEVELOPMENT
04-09-24 10% CD
A 04-18-24 BID/PERMIT SET

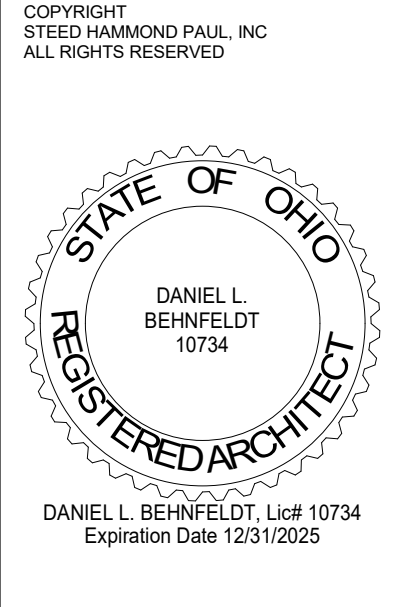
TITLE SHEET

COMM NO. 2024006.01

G001

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4/18/2024 4:09:42 PM



JEFFERSON TOWNSHIP HIGH SCHOOL
AGRICULTURE EDUCATION FACILITY
2701 SOUTH UNION ROAD, DAYTON OH 45417
JEFFERSON TOWNSHIP LOCAL SCHOOL DISTRICT
2625 SOUTH UNION ROAD, DAYTON OH 45417

ISSUANCES

DATE	DESCRIPTION
04-09-24	90% CD
04-16-24	BD/PERMIT SET

CODE DATA SHEETS

COMM NO. 2024006.01

G101

CODE DATA KEY BUILDING CODE UTILIZED: OBC 2017 w/ UPDATES

- EXIT CAPACITY
- ACTUAL LOAD THRU EXIT
- DESIGN OCCUPANT LOAD PER OBC TABLE 1004.1.2 OR MAXIMUM ANTICIPATED OCCUPANT LOAD
- ACTUAL OCCUPANT LOAD - BASED ON ACTUAL OCCUPANTS IN EACH ROOM OR SPACE. USED TO DETERMINE PLUMBING FIXTURE REQUIREMENTS AS PERMITTED IN 2902.1 AND HVAC LOADS AS PERMITTED IN ASHRAE 62.1, TABLE 6-1.

CODE DATA PLAN WALL AND DOOR TAG KEY

- SOLID BLACK FILL INDICATES FIRE- OR SMOKE-RESISTANCE RATED CONSTRUCTION
- FIRE RESISTANCE RATING (HRS) OR SMOKE (S)
- DOOR FIRE RESISTANCE RATING (MIN) OR SMOKE (S)
- W = WALL
- B = FIRE OR SMOKE BARRIER
- P = FIRE OR SMOKE PARTITION
- CEILING RATING EQUAL TO BOUNDING WALL RATING TO CREATE CONTINUOUS RATED ENCLOSURE - WHERE WALLS DO NOT EXTEND TO DECK.
- TRAVEL DISTANCE PATH

AREA SCHEDULE (CODE PLANS)

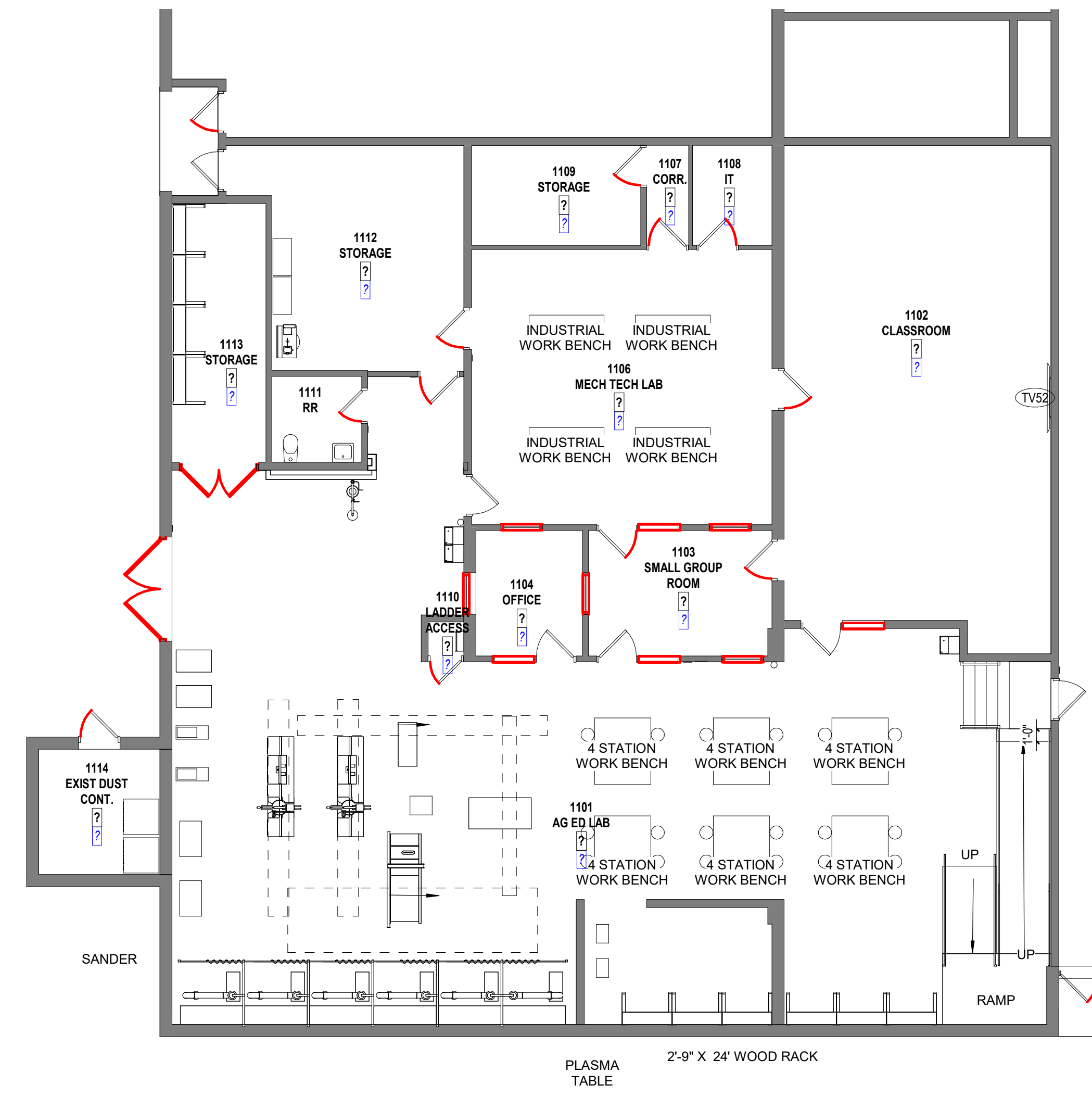
FLOOR	AREA
-------	------

EGRESS TRAVEL DISTANCE

PATH	DISTANCE
------	----------

BUILDING CODE COMPLIANCE INFORMATION

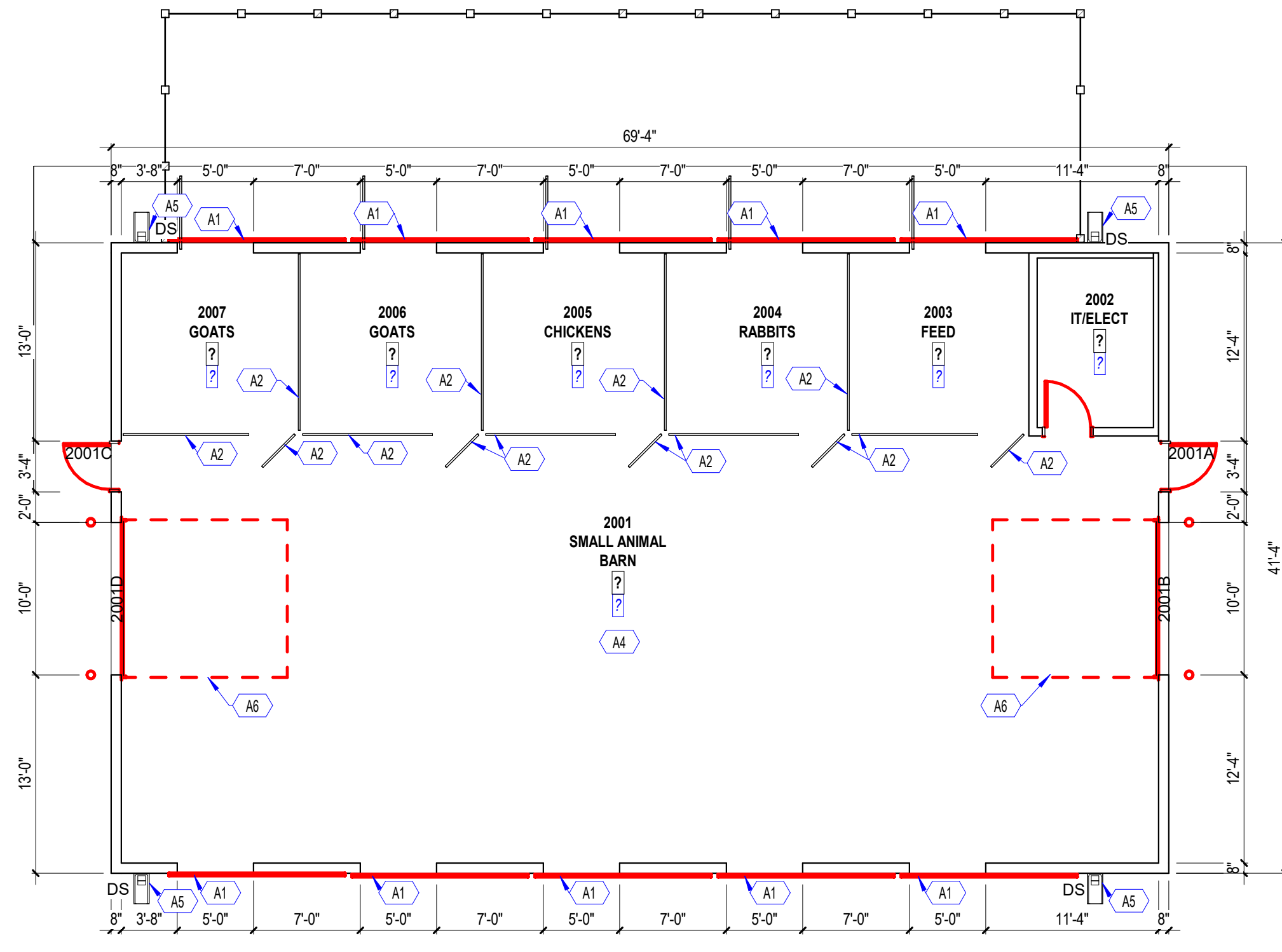
OCCUPANCY CLASSIFICATION [OBC CHAPTER 3]		E
OBC CONSTRUCTION TYPE [OBC CHAPTER 6]		IIB
BUILDING SPRINKLERED? [OBC CHAPTER 9]		NS
ALLOWABLE BUILDING HEIGHT [OBC CHAPTER 5]		
Allowable Building Height (OBC Tables 504.3 and 504.4)	55'-0"	2 Stories
ACTUAL BUILDING HEIGHT	0"	1 Story
ALLOWABLE BUILDING AREA [OBC CHAPTER 5]		
Tabular Allowable Area Factor (OBC Table 506.2)		14500 SF
Tabular Nonsprinklered Allowable Area	0 SF	
Building Perimeter that fronts on a Public Way or Open Space with minimum 20ft of width (OBC Section 506.3)	100'-0"	
Total Building Perimeter (OBC Section 506.3)	100'-0"	
Weighted Average Width of Acceptable Public Way (OBC Section 506.3.2)	30'-0"	
Area Factor Increase Due to Frontage (OBC Section 506.3.3)	0.75	0 SF
Allowable Area per Story		14500 SF
ACTUAL AREA PER LARGEST STORY		0 SF
INTERIOR WALL AND CEILING FINISH REQUIREMENTS [OBC Table 803.11]		
Interior Exit Stairways, Interior Exit Ramps and Exit Passageways		Class B or Better
Corridors and Enclosure for Exit Access Stairways and Exit Access Ramps		Class B or Better
Rooms and Enclosed Spaces		Class C or Better



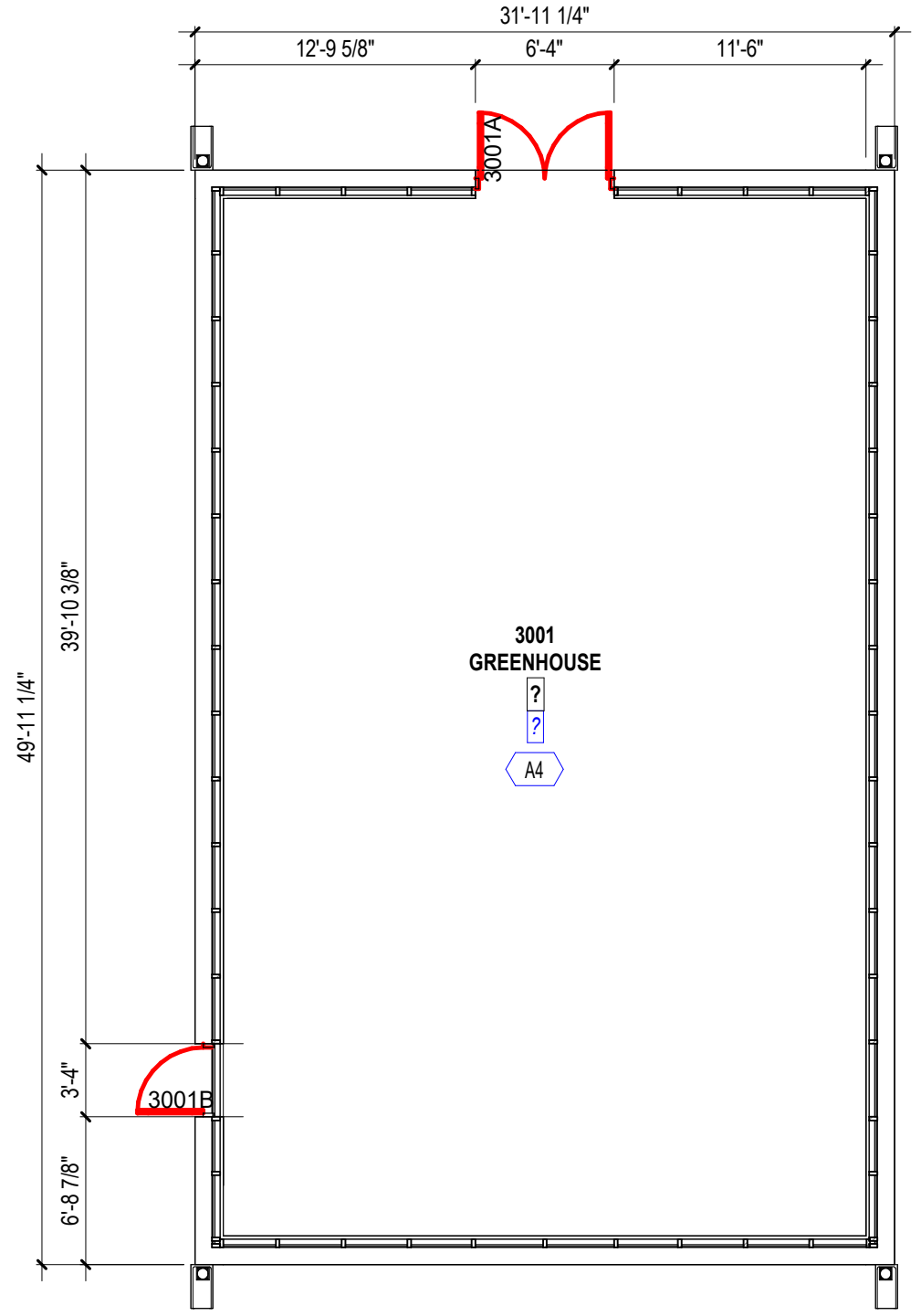
1 FIRST FLOOR PLAN - AG ED SHOP Copy 2
G101 1/8" = 1'-0"

BUILDING CODE COMPLIANCE INFORMATION

OCCUPANCY CLASSIFICATION [OBC CHAPTER 3]		U
OBC CONSTRUCTION TYPE [OBC CHAPTER 6]		VB
BUILDING SPRINKLERED? [OBC CHAPTER 9]		NS
ALLOWABLE BUILDING HEIGHT [OBC CHAPTER 5]		
Allowable Building Height (OBC Tables 504.3 and 504.4)	55'-0"	2 Stories
ACTUAL BUILDING HEIGHT	0"	1 Story
ALLOWABLE BUILDING AREA [OBC CHAPTER 5]		
Tabular Allowable Area Factor (OBC Table 506.2)		8500 SF
Tabular Nonsprinklered Allowable Area	0 SF	
Building Perimeter that fronts on a Public Way or Open Space with minimum 20ft of width (OBC Section 506.3)	25'-6"	
Total Building Perimeter (OBC Section 506.3)	100'-0"	
Weighted Average Width of Acceptable Public Way (OBC Section 506.3.2)	30'-0"	
Area Factor Increase Due to Frontage (OBC Section 506.3.3)	0	0 SF
Allowable Area per Story		8500 SF
ACTUAL AREA PER LARGEST STORY		0 SF
INTERIOR WALL AND CEILING FINISH REQUIREMENTS [OBC Table 803.11]		
Interior Exit Stairways, Interior Exit Ramps and Exit Passageways		Class B or Better
Corridors and Enclosure for Exit Access Stairways and Exit Access Ramps		Class B or Better
Rooms and Enclosed Spaces		Class C or Better



2 FIRST FLOOR PLAN - AG ED BARN Copy 1
G101 1/8" = 1'-0"



3 FIRST FLOOR PLAN - AG ED GREENHOUSE Copy 1
G101 1/8" = 1'-0"

BUILDING CODE COMPLIANCE INFORMATION

OCCUPANCY CLASSIFICATION [OBC CHAPTER 3]		U
OBC CONSTRUCTION TYPE [OBC CHAPTER 6]		VB
BUILDING SPRINKLERED? [OBC CHAPTER 9]		NS
ALLOWABLE BUILDING HEIGHT [OBC CHAPTER 5]		
Allowable Building Height (OBC Tables 504.3 and 504.4)	55'-0"	2 Stories
ACTUAL BUILDING HEIGHT	0"	1 Story
ALLOWABLE BUILDING AREA [OBC CHAPTER 5]		
Tabular Allowable Area Factor (OBC Table 506.2)		100 SF
Tabular Nonsprinklered Allowable Area	8500 SF	
Building Perimeter that fronts on a Public Way or Open Space with minimum 20ft of width (OBC Section 506.3)	25'-6"	
Total Building Perimeter (OBC Section 506.3)	100'-0"	
Weighted Average Width of Acceptable Public Way (OBC Section 506.3.2)	30'-0"	
Area Factor Increase Due to Frontage (OBC Section 506.3.3)	0	0 SF
Allowable Area per Story		100 SF
ACTUAL AREA PER LARGEST STORY		0 SF
INTERIOR WALL AND CEILING FINISH REQUIREMENTS [OBC Table 803.11]		
Interior Exit Stairways, Interior Exit Ramps and Exit Passageways		Class B or Better
Corridors and Enclosure for Exit Access Stairways and Exit Access Ramps		Class B or Better
Rooms and Enclosed Spaces		Class C or Better

GENERAL NOTES

- 1. THE TOWNSHIP OF JEFFERSON, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. ... 22. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.

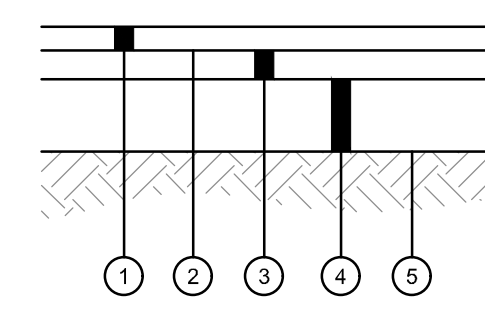
GRADING NOTES

- 1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK. ... 11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.

UTILITY NOTES

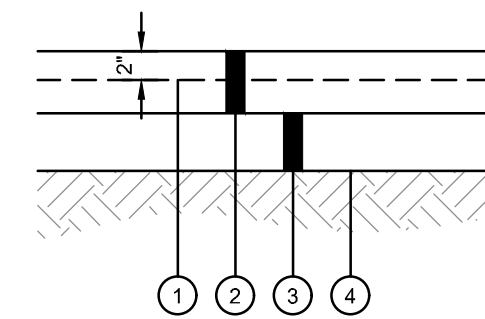
- 1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER. ... 22. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.

- 22. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER. ... 27. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS.



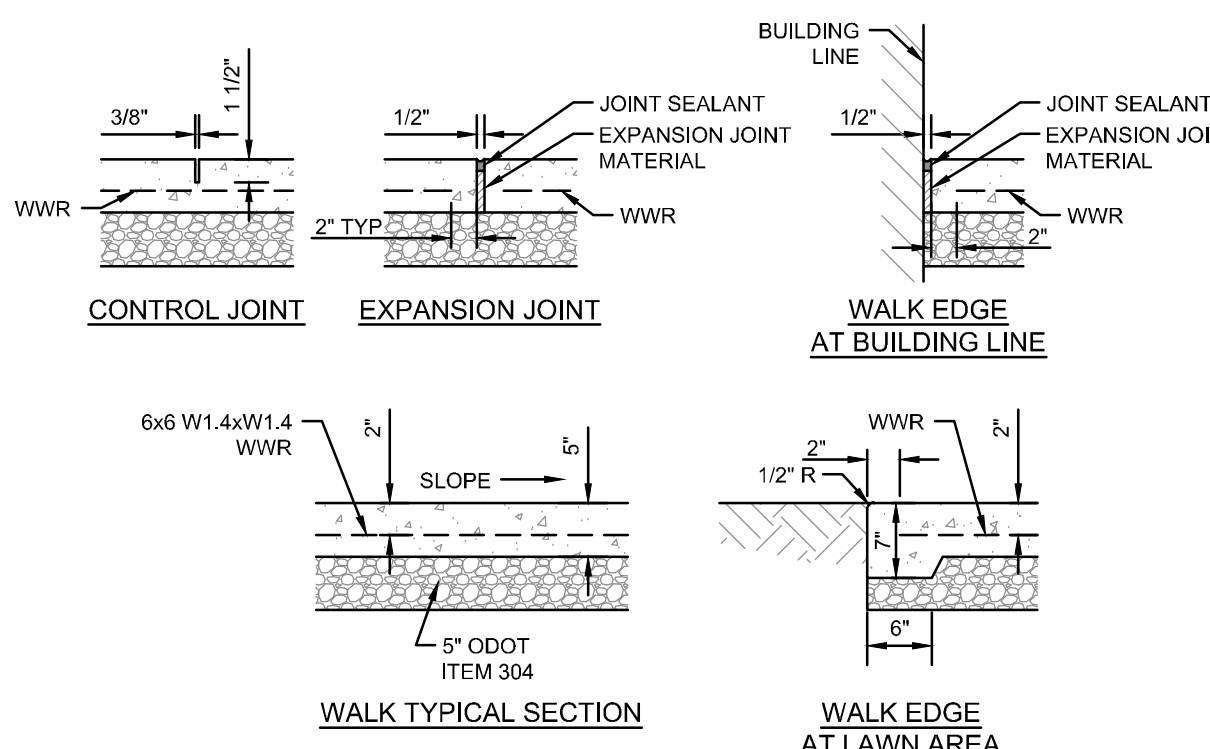
- 1 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2 ODOT ITEM 407 TACK COAT, APPLY 1/8" BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
3 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4 8" ODOT ITEM 304 AGGREGATE BASE
5 SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

STANDARD DUTY ASPHALT PAVEMENT DETAIL N.T.S.



- 1 6x6 W4XW4 WELDED WIRE REINFORCEMENT
2 8" ODOT ITEM 452 NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
3 8" ODOT ITEM 304 AGGREGATE BASE
4 SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

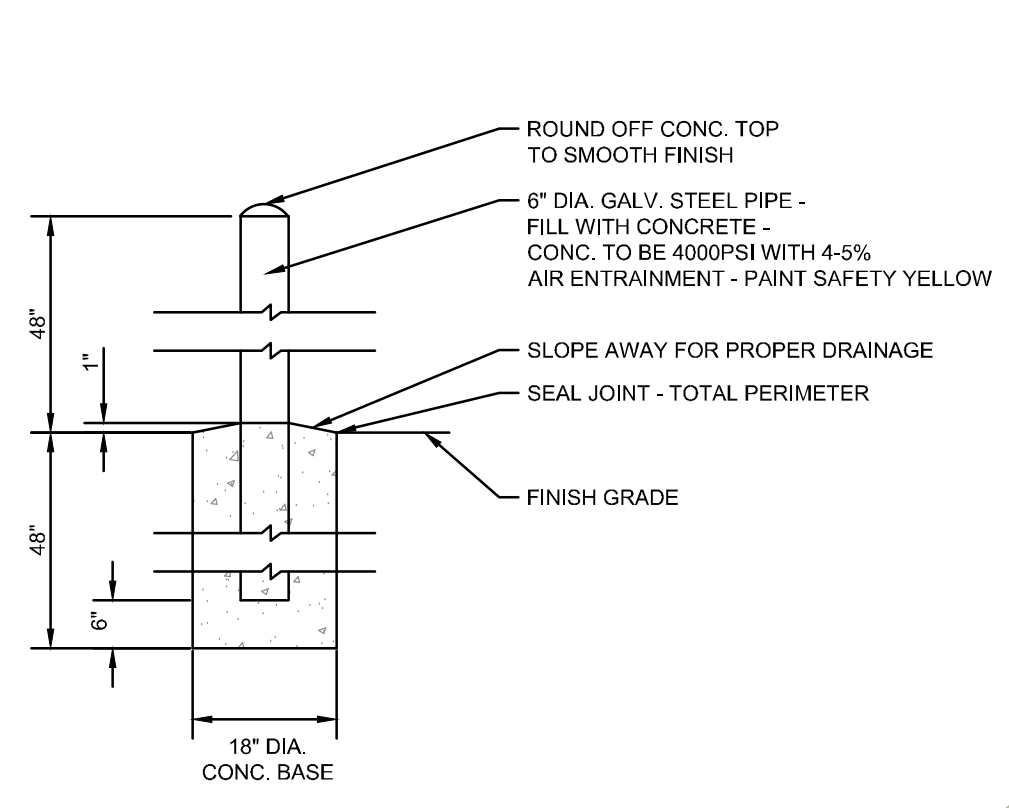
HEAVY DUTY CONCRETE PAVEMENT DETAIL N.T.S.



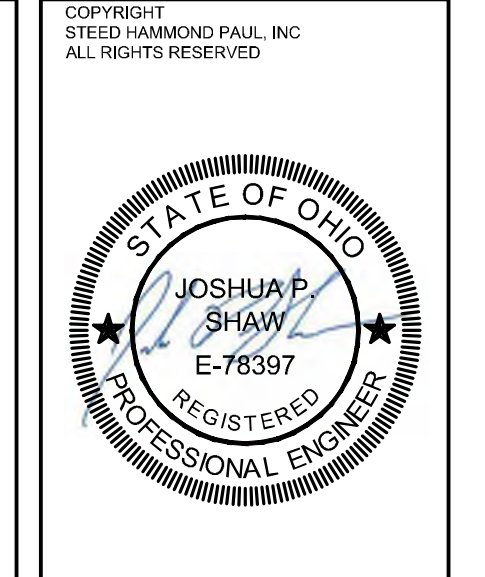
WALK TYPICAL SECTION WALK EDGE AT LAWN AREA

- NOTES:
1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES. ... 6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

EXTERIOR CONCRETE SLAB WALK DETAIL N.T.S.



PIPE BOLLARD DETAIL N.T.S.



SHP 312 PLUM STREET, SUITE 700 CINCINNATI, OH 45202-5133, 381.2112

JEFFERSON TOWNSHIP HIGH SCHOOL
JEFFERSON TWP. LSD-HS AG ED FACILITY
2701 SOUTH UNION ROAD, DAYTON OH 45417
JEFFERSON TOWNSHIP LOCAL SCHOOL DISTRICT
2625 SOUTH UNION ROAD, DAYTON OH 45417

ISSUANCES

Table with columns for date and description of issues. Includes entries for 03-01-24 DESIGN DEVELOPMENT, 04-08-24 PER CO, and 04-18-24 BID/PERMIT SET.

GENERAL NOTES & DETAILS

COMM NO. 2024006.01

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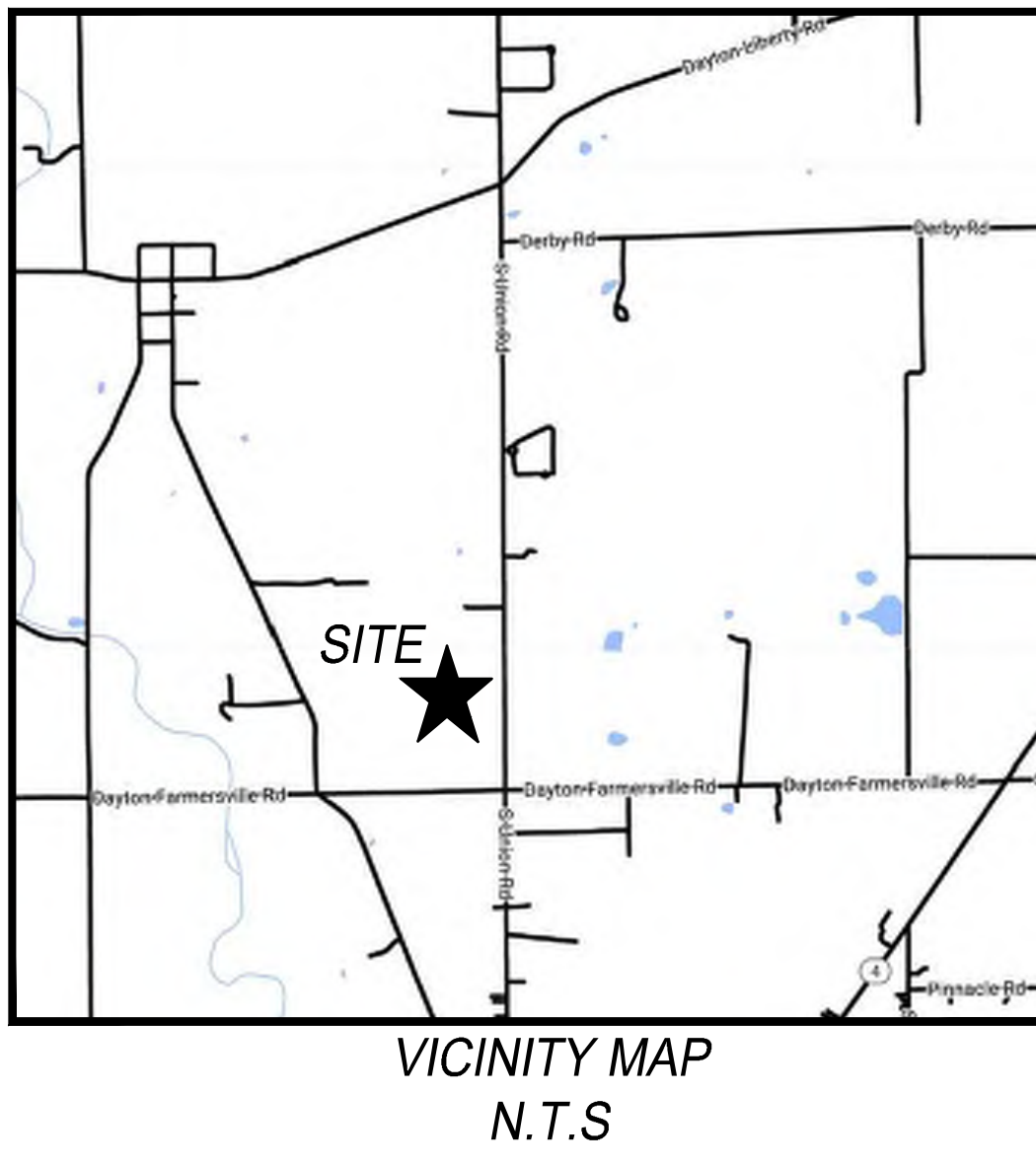
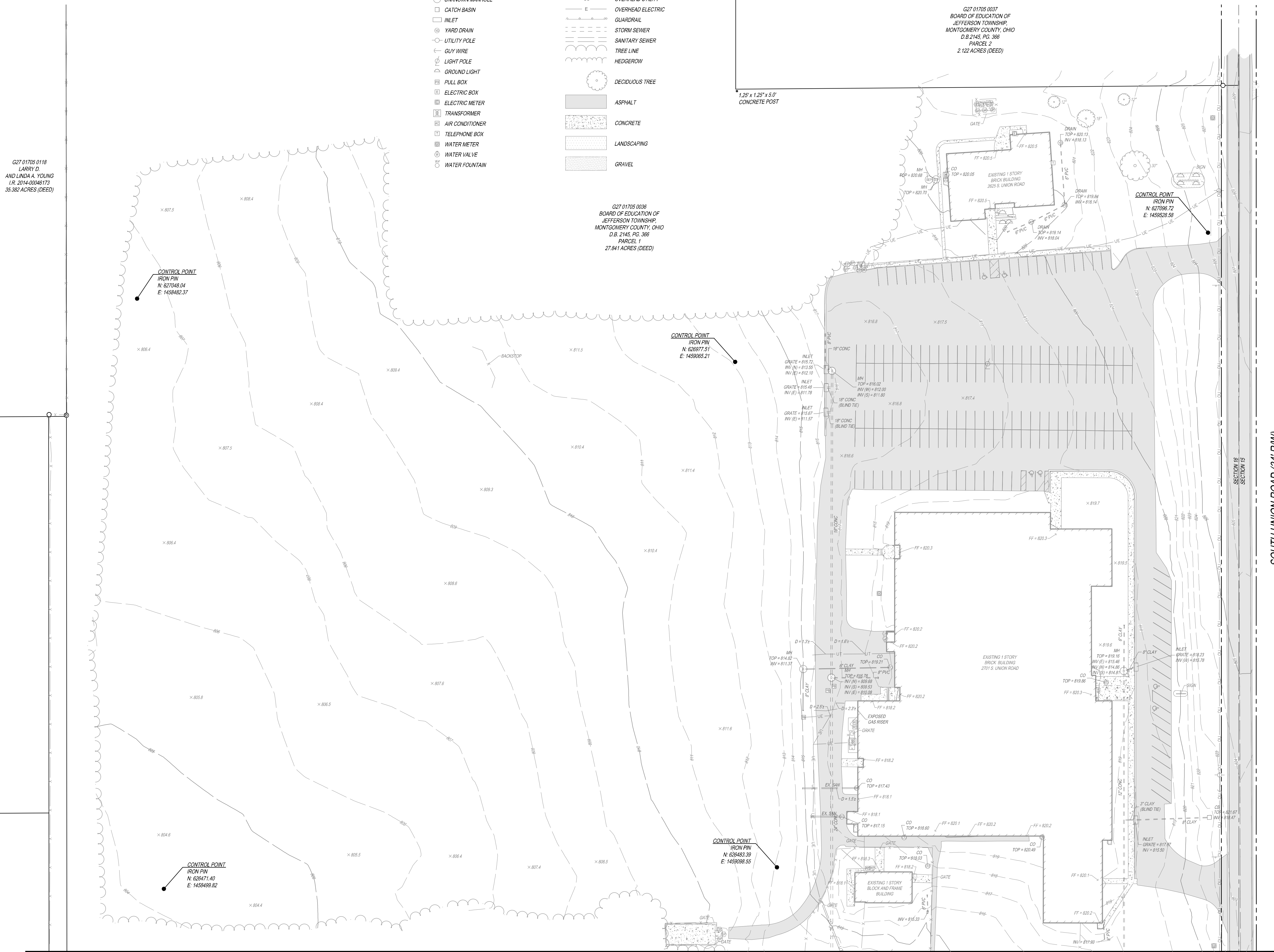
G27 01705 0118
LARRY D.
AND LINDA A. YOUNG
I.R. 2014-00046173
35.382 ACRES (DEED)

LEGEND:

◆ BENCHMARK	○ 5/8" IRON PIN FOUND (UNLESS NOTED OTHERWISE)	▲ MAG NAIL FOUND	△ RAILROAD SPIKE FOUND	○ SANITARY MANHOLE	⊙ SEPTIC MANHOLE	⊙ CLEAN OUT	⊙ STORM MANHOLE	⊙ UNKNOWN MANHOLE	□ CATCH BASIN	□ INLET	⊙ YARD DRAIN	○ UTILITY POLE	○ GUY WIRE	○ LIGHT POLE	○ GROUND LIGHT	□ PULL BOX	□ ELECTRIC BOX	□ ELECTRIC METER	□ TRANSFORMER	□ AIR CONDITIONER	□ TELEPHONE BOX	□ WATER METER	□ WATER VALVE	○ WATER FOUNTAIN	○ SINGLE POST SIGN	○ FLAG POLE	○ GUARD POST	○ HANDICAP PARKING	— W — WATER LINE	— G — GAS LINE	— X — FENCE LINE	— UT — UNDERGROUND TELEPHONE	— OU — OVERHEAD UTILITY	— E — OVERHEAD ELECTRIC	— — GUARDRAIL	— — STORM SEWER	— — SANITARY SEWER	— — TREE LINE	— — HEDGEROW	○ DECIDUOUS TREE	■ ASPHALT	■ CONCRETE	■ LANDSCAPING	■ GRAVEL
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G27 01705 0036
BOARD OF EDUCATION OF
JEFFERSON TOWNSHIP,
MONTGOMERY COUNTY, OHIO
D.B. 2145, PG. 386
PARCEL 1
27.841 ACRES (DEED)

G27 01705 0037
BOARD OF EDUCATION OF
JEFFERSON TOWNSHIP,
MONTGOMERY COUNTY, OHIO
D.B. 2145, PG. 386
PARCEL 2
2.122 ACRES (DEED)



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JEFFERSON TOWNSHIP HIGH SCHOOL
JEFFERSON TWP. LSD-HS AG ED FACILITY
 2701 SOUTH UNION ROAD, DAYTON OH 45417
 JEFFERSON TOWNSHIP LOCAL SCHOOL DISTRICT
 2625 SOUTH UNION ROAD, DAYTON OH 45417

- NOTES:**
- SOURCE DOCUMENTS AS NOTED.
 - OCCUPATION IN GENERAL FITS SURVEY.
 - MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE NOTED.
 - DISTANCE UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION (1' = 1200/3937 METERS, OR APPROXIMATELY 1' = 0.30480061 METERS).
 - BEARINGS ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AS DERIVED FROM THE OHIO DEPARTMENT OF TRANSPORTATION'S VIRTUAL REFERENCE STATIONING (VRS), (NAD 83 - 2011)
 - PROJECT COORDINATES ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1/0.9999179690 APPLIED AT A BASED POINT OF N: 626483.39 E: 1459098.55. GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.
 - ELEVATIONS ARE BASED ON NAVD 88, AS DERIVED FROM THE OHIO DEPARTMENT OF TRANSPORTATION'S VIRTUAL REFERENCE STATIONING (VRS).
 - SITE BENCHMARK AS SHOWN HEREON.
 - DEPTHS LISTED FOR ANY UTILITY LINES HEREON ARE APPROXIMATIONS ONLY AND MAY NOT REPRESENT ACTUAL DEPTHS OF LINES. DEPTHS WERE PROVIDED BY A PRIVATE UTILITY LOCATING COMPANY UTILIZING SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL C. THERE ARE MANY FACTORS THAT CAN COMPLICATE THE ACQUISITION OF THESE DEPTHS INCLUDING BUT NOT LIMITED TO SOIL TYPES, SOIL COMPACTION, EQUIPMENT USED TO PROVIDE DEPTHS, AND TYPE OF PIPE AND/OR UTILITY IN THE GROUND. FOR A MORE ACCURATE DEPTH OF ANY UTILITY LINES, IT MAY BE NECESSARY TO INCORPORATE SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL A (EXPOSURE OF UTILITY LINES) VIA VACUUM EXCAVATION OR OTHER CONSTRUCTION MEANS. THE KLEINGERS GROUP MAKES NO GUARANTEES OF THESE DEPTHS LISTED HERE ON.

ISSUANCES

NO.	DATE	DESCRIPTION
03-01-24	DESIGN DEVELOPMENT	
04-08-24	90% CD	
04-18-24	BID/PERMIT SET	

SURVEY BASEMAP

STATE OF OHIO
 MATTHEW D. HABEDANK
 8811
 SURVEYOR

04/17/2024

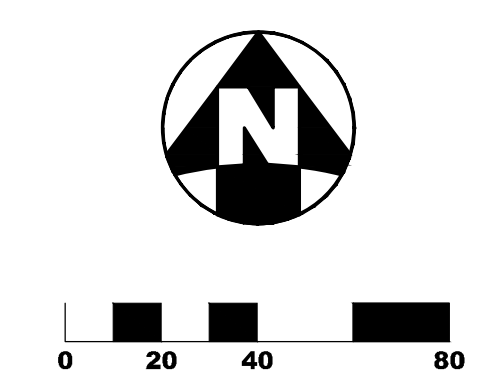
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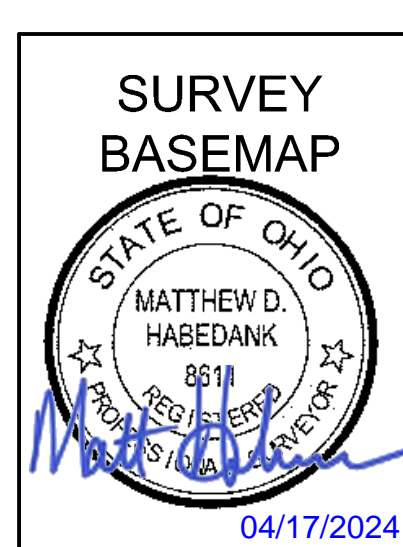
THE KLEINGERS GROUP

CIVIL ENGINEERING
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www.kleingers.com
 6210 Centre Park Dr.
 West Chester, OH 45389
 513.779.7851

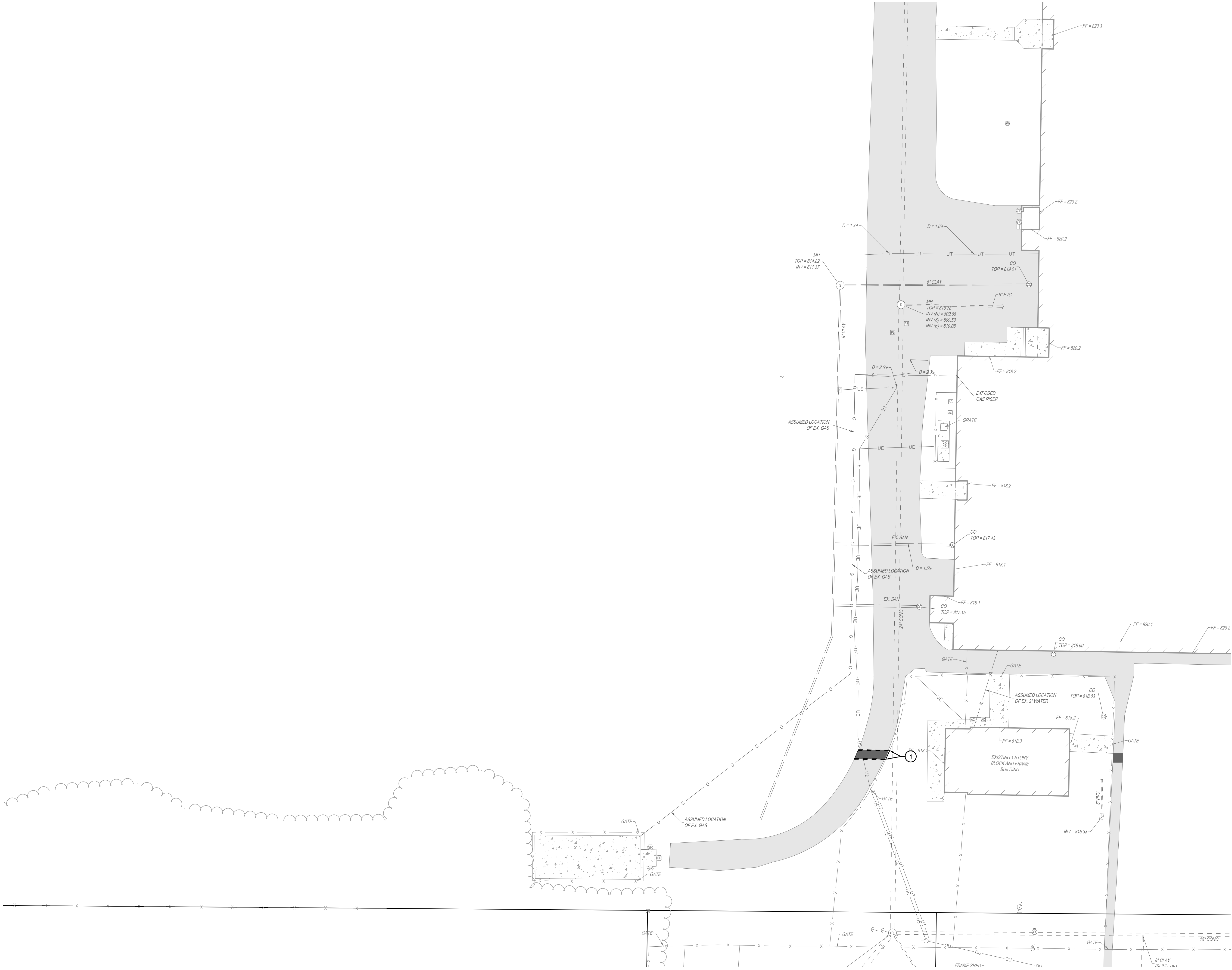


ISSUANCES	
03-01-24	DESIGN DEVELOPMENT
04-08-24	90% CD
04-18-24	BID/PERMIT SET



COMM NO. 2024006.01

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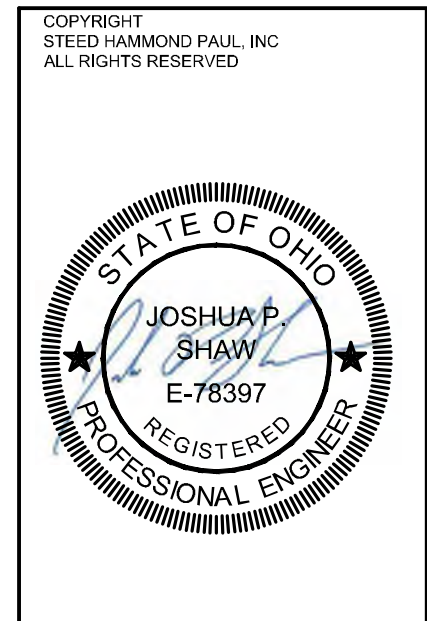


DEMOLITION LEGEND

- REMOVE ASPHALT
- SAWCUT LINE

CODED NOTES

- ① REMOVE AND REPLACE FENCE AS NECESSARY TO INSTALL WATER LINE.



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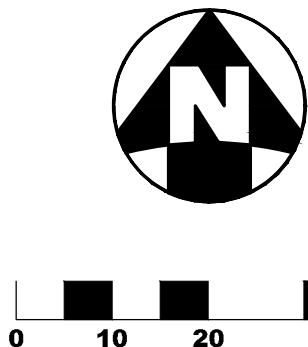
ISSUANCES

03-01-24	DESIGN DEVELOPMENT
04-08-24	90% CD
A	04-18-24 BID PERMIT SET

DEMOLITION PLAN

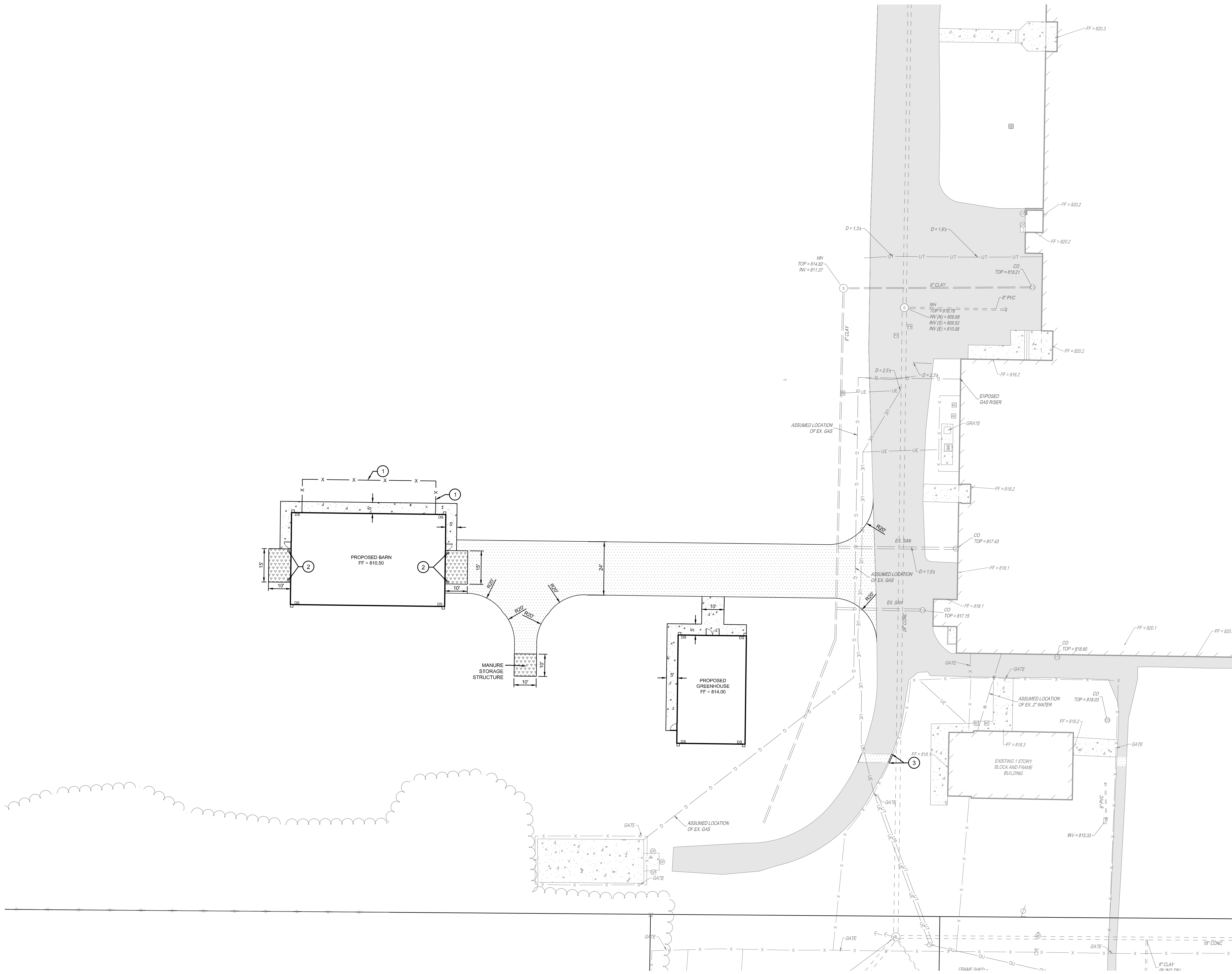
COMM NO. 2024006.01

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NOT TO SCALE

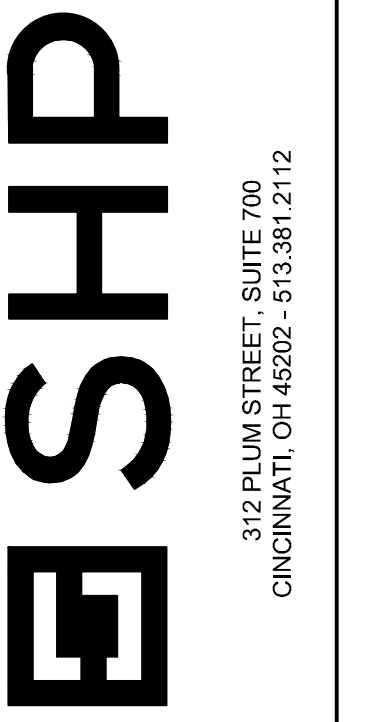


PROPOSED LEGEND

- CATCH BASIN
- CURB INLET
- YARD DRAIN
- HEADWALL
- MANHOLE
- STORM SEWER CLEANOUT
- DOWNSPOUT WITH SPLASH BLOCK
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- FIRE HYDRANT
- WATER VALVE
- POST INDICATOR VALVE
- FIRE DEPARTMENT CONNECTION
- ASPHALT PAVEMENT PER DETAIL 1/C100
- CONCRETE WALK PER DETAIL 3/C100
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL 2/C100

CODED NOTES

- 1 PROPOSED FENCE. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
- 2 PROPOSED BOLLARD. SEE DETAIL 4/C100.
- 3 REPLACE FENCE TO MATCH EXISTING AS NECESSARY TO INSTALL WATER LINE



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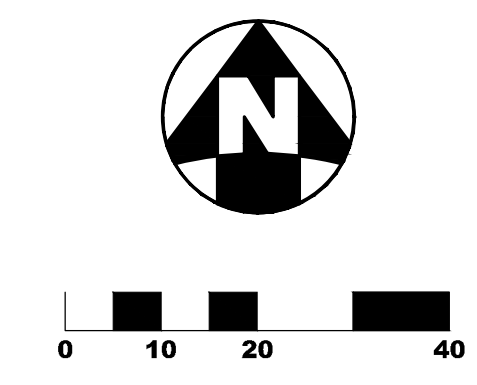
ISSUANCES

NO.	DATE	DESCRIPTION
03-01-24	DESIGN DEVELOPMENT	
04-08-24	90% CD	
04-18-24	BID PERMIT SET	

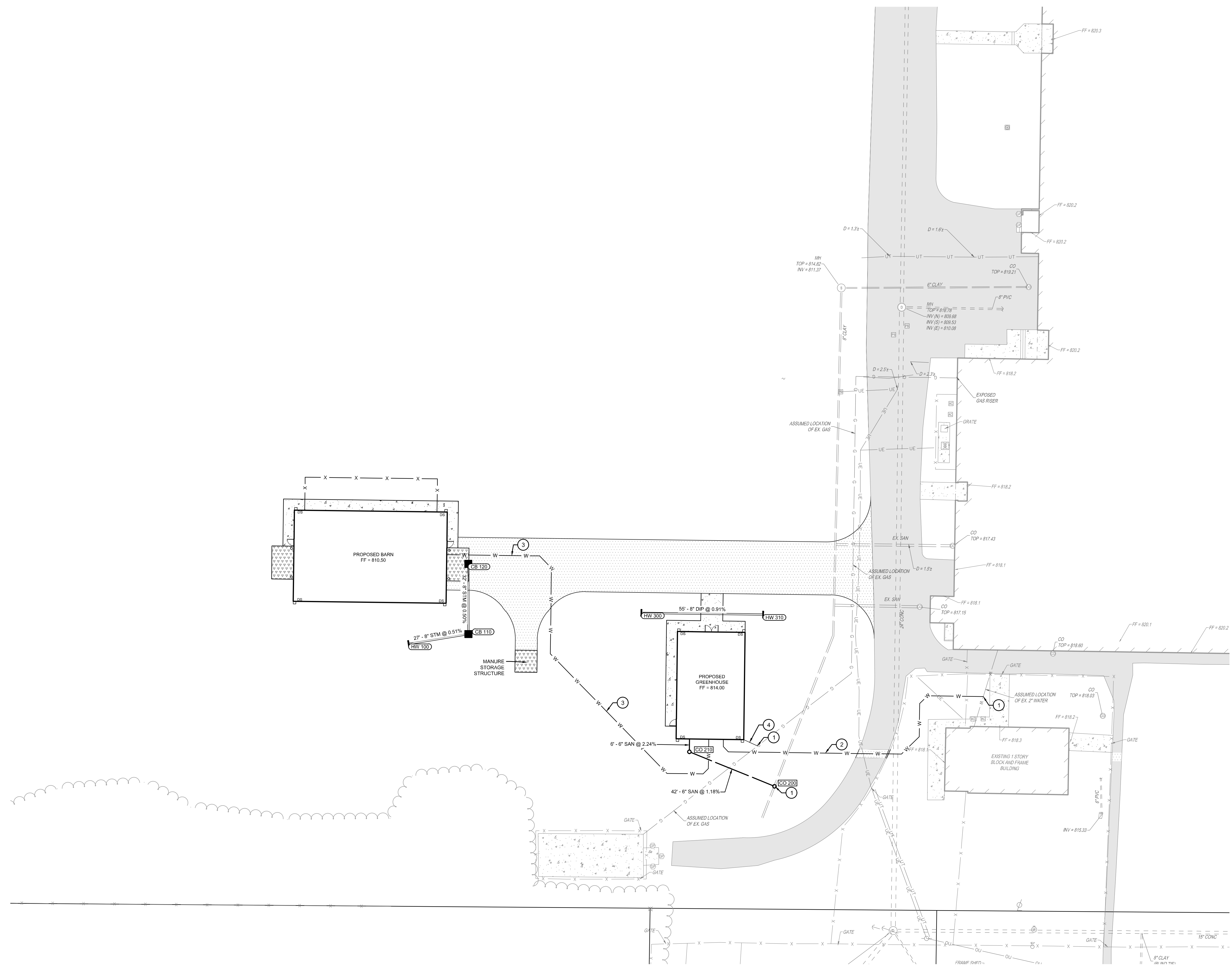
LOCATION PLAN

COMM NO. 2024006.01

C130

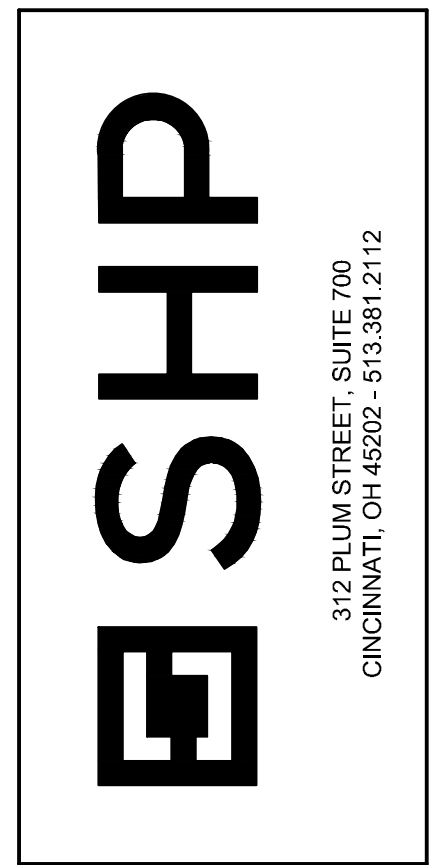
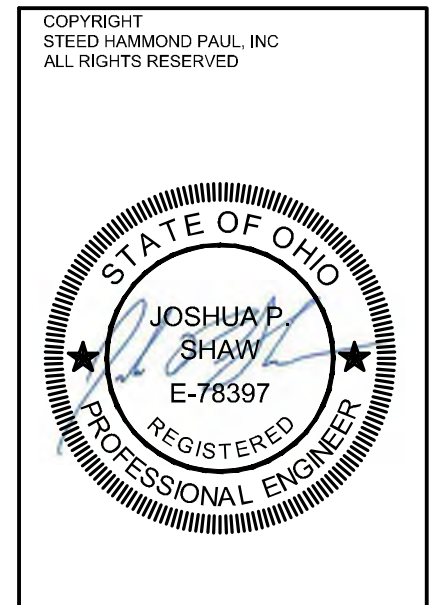


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- PROPOSED LEGEND**
- STM STORM SEWER PIPE
 - 100 CATCH BASIN
 - 100 CURB INLET
 - 100 YARD DRAIN
 - 100 HEADWALL
 - 100 MANHOLE
 - 100 STORM SEWER CLEANOUT
 - D⁵⁰ DOWNSPOUT
 - SAN SANITARY SEWER PIPE
 - A SANITARY SEWER MANHOLE
 - CO SANITARY SEWER CLEANOUT
 - WVA WATERLINE PIPE
 - FH FIRE HYDRANT
 - WV WATER VALVE
 - PV POST INDICATOR VALVE
 - DC FIRE DEPARTMENT CONNECTION

- CODED NOTES**
- 1 CONNECT TO EXISTING. CONTRACTOR TO FIELD VERIFY SIZE, DEPTH, AND LOCATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION AND REPORT FINDINGS TO ENGINEER.
 - 2 PROPOSED 1" WATER
 - 3 PROPOSED 3/4" WATER
 - 4 PROPOSED GAS



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ISSUANCES

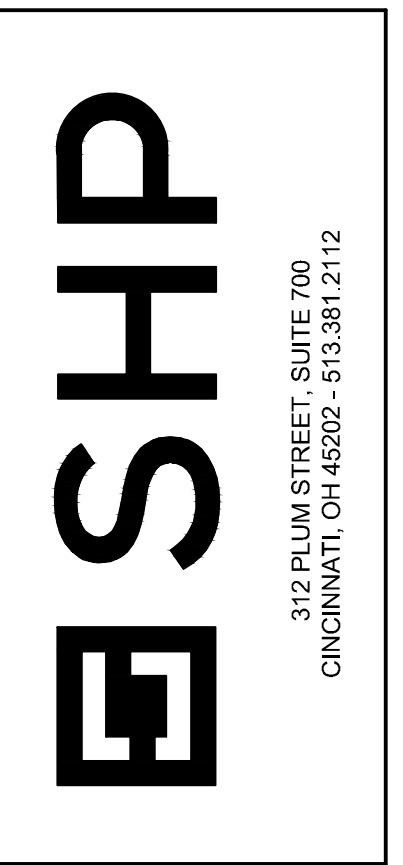
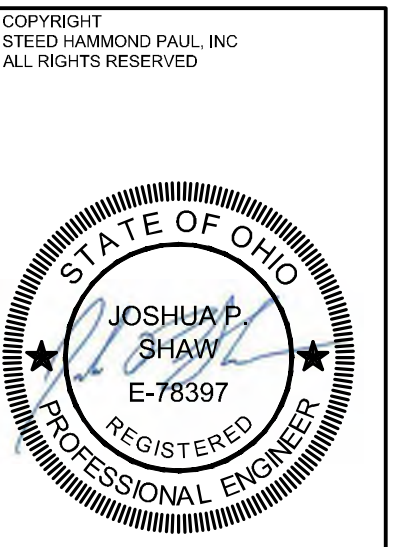
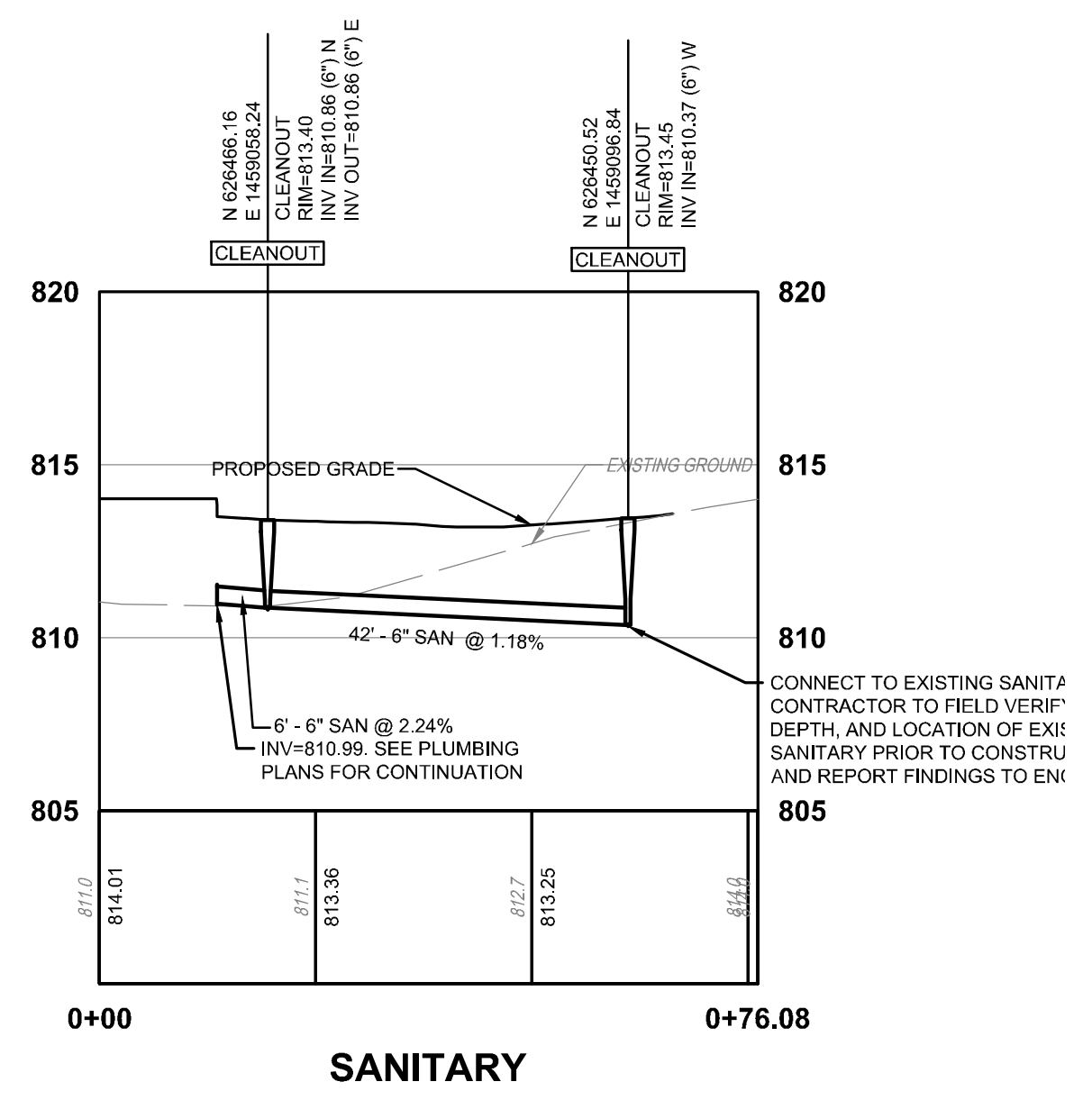
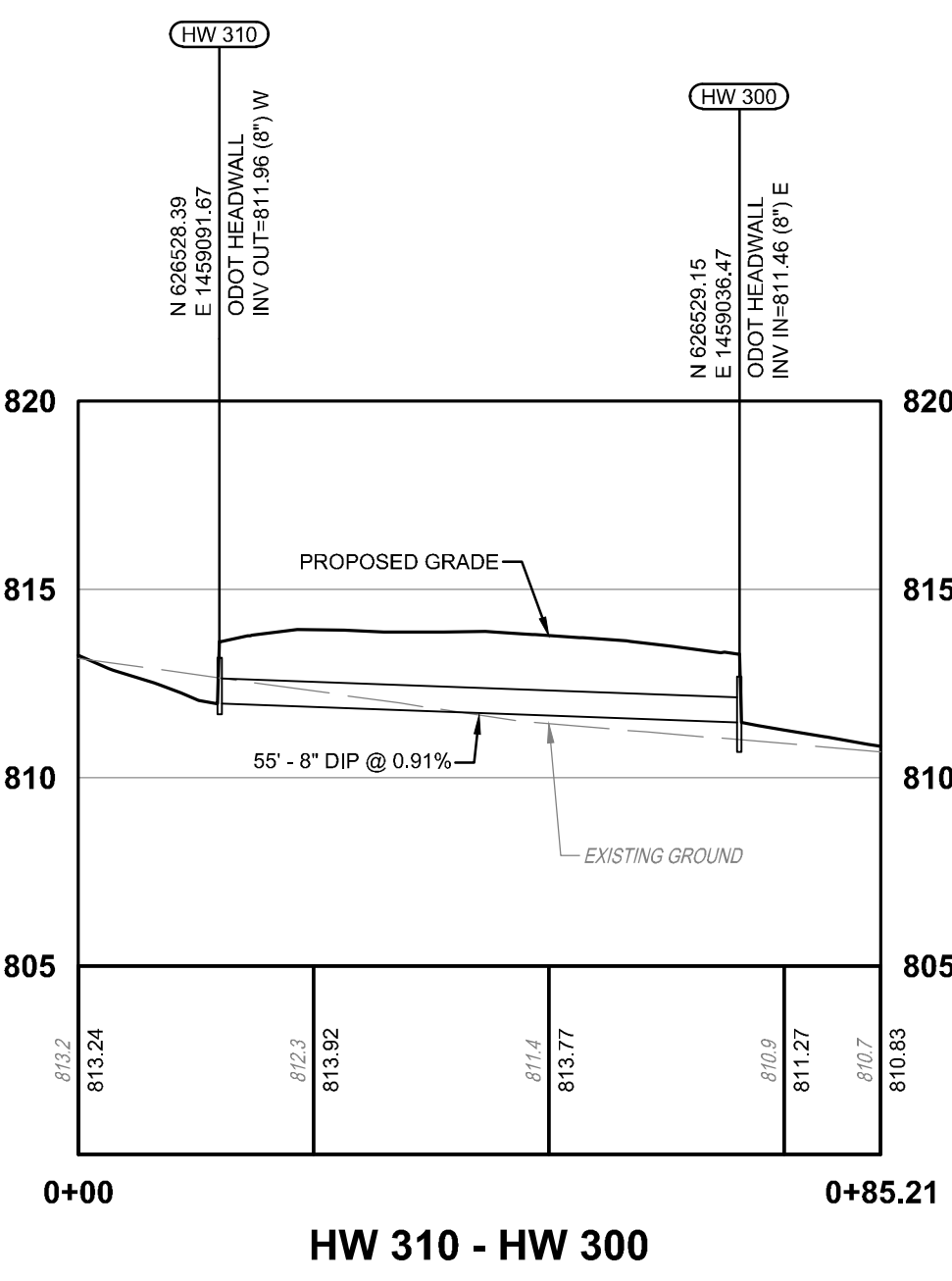
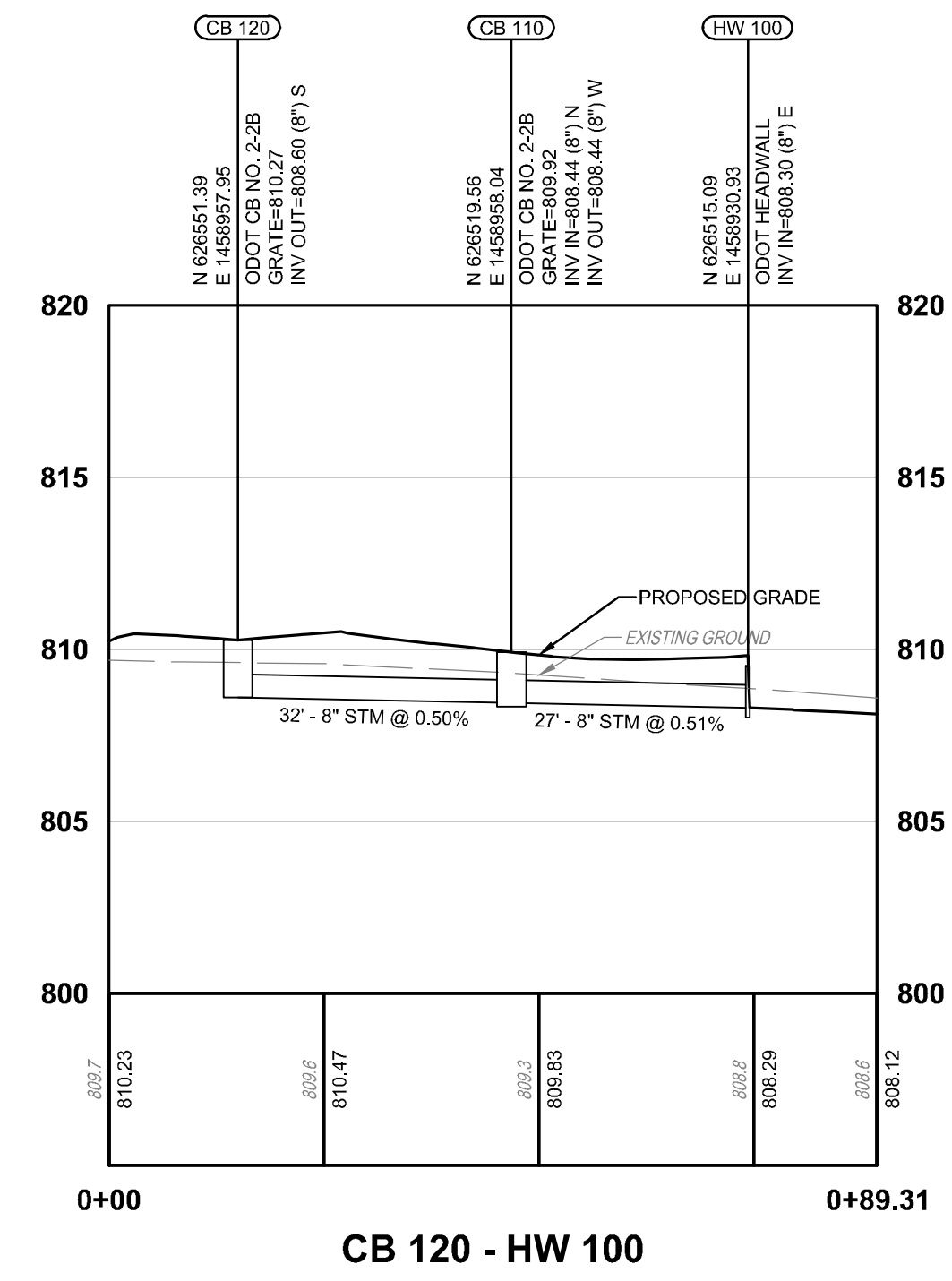
03-01-24	DESIGN DEVELOPMENT
04-08-24	90% CD
A 04-18-24	BIDPERMIT SET

UTILITY PLAN

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C140

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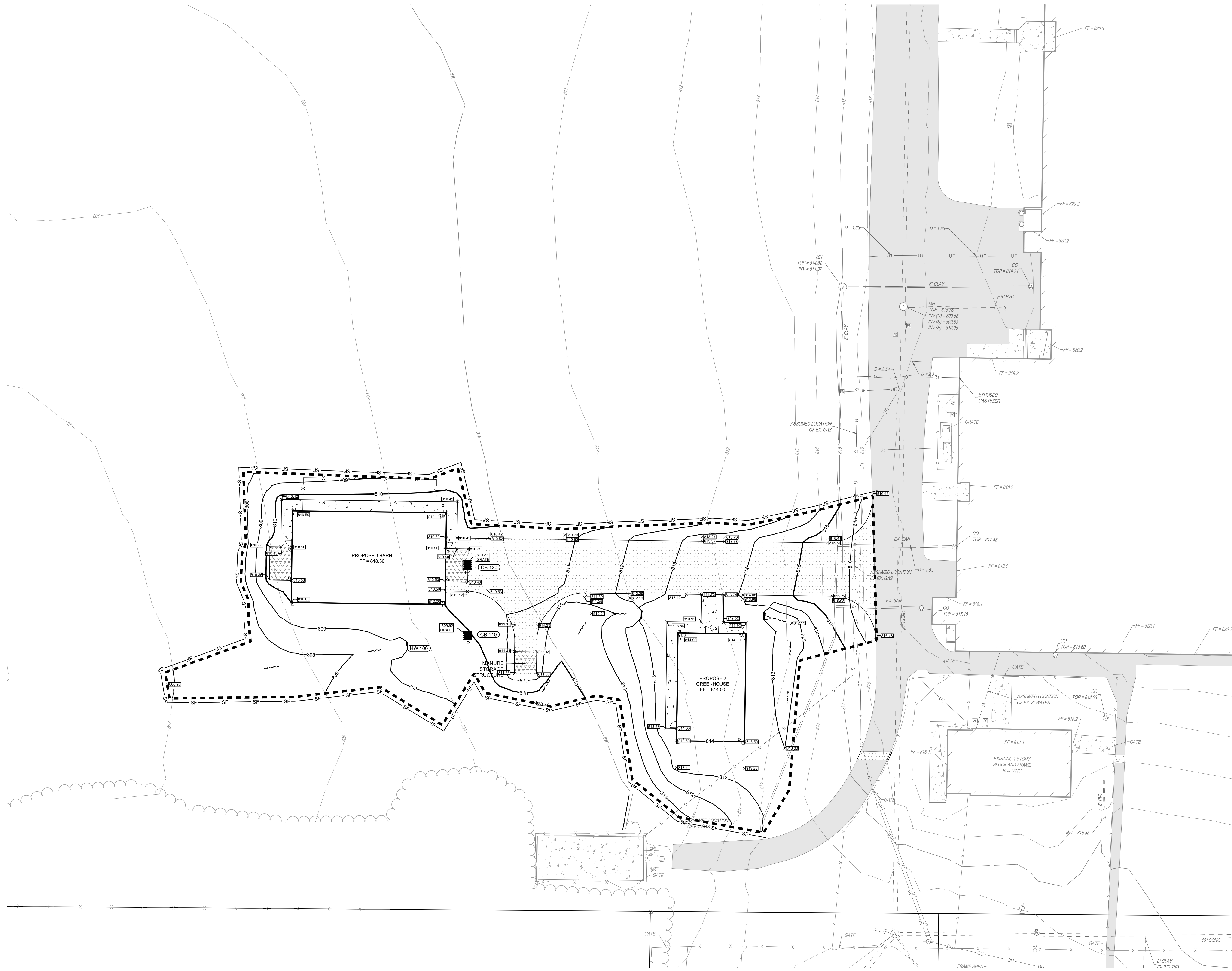
ISSUANCES	
03-01-24	DESIGN DEVELOPMENT
04-08-24	90% CD
A 04-18-24	BIDPERMIT SET

UTILITY PROFILES

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GRADING LEGEND

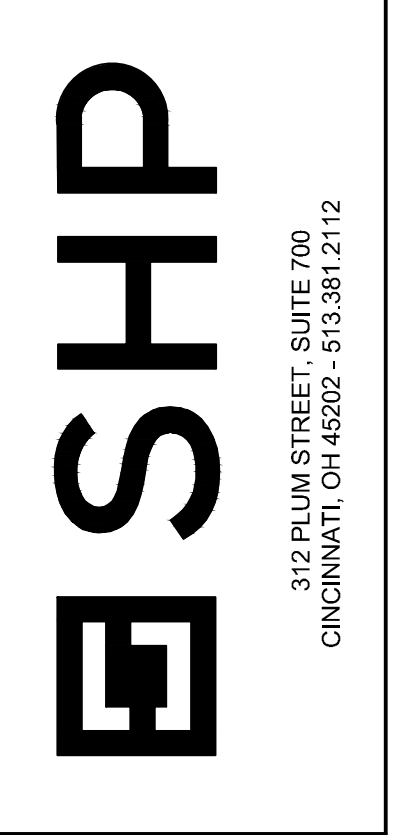
- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR
- × 1215.00 PROPOSED SPOT ELEVATION
- PROPOSED SWALE
- ➔ 100-YEAR FLOOD ROUTE

PROPOSED EROSION CONTROL LEGEND

- IP INLET PROTECTION PER DETAIL 1/C161
- SF SILT FENCE PER DETAIL 2/C161
- TP TREE PROTECTION
- CW CONCRETE WASHOUT
- CONSTRUCTION ENTRANCE
- ODOT TYPE C ROCK CHANNEL PROTECTION
- LIMITS OF DISTURBANCE

SPOT ELEVATION LEGEND

- × 1215.00 FINISHED GRADE ELEVATION
- × 1215.00 BC BACK OF CURB ELEVATION
- × 1215.00 EC EDGE OF CONCRETE ELEVATION
- × 1215.00 EP EDGE OF PAVEMENT ELEVATION
- × 1215.00 EG EDGE OF GRAVEL ELEVATION
- × 1215.00 SB BOTTOM OF STAIR ELEVATION
- × 1215.00 ST TOP OF STAIR ELEVATION
- × 1215.00 WB FINISHED GRADE AT WALL BOTTOM
- × 1215.00 WT FINISHED GRADE AT WALL TOP
- × 1215.00 RBM MANHOLE / CLEANOUT RIM ELEVATION
- × 1215.00 TC STORM INLET TOP OF CASTING ELEVATION
- × 1215.00 GRATE CATCH BASIN GRATE ELEVATION



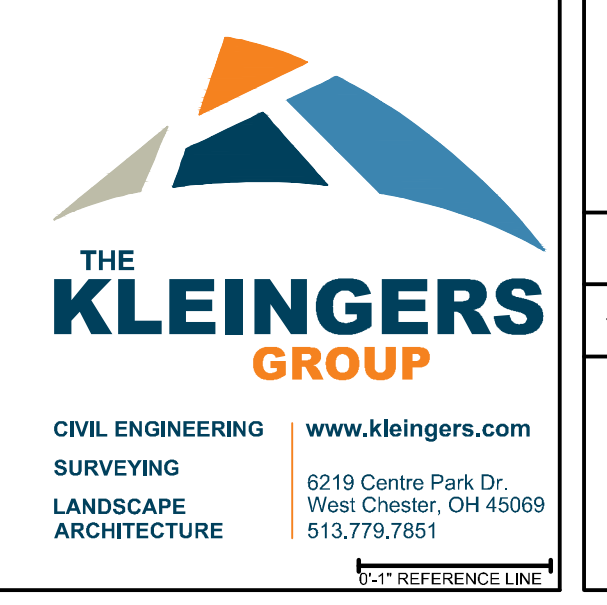
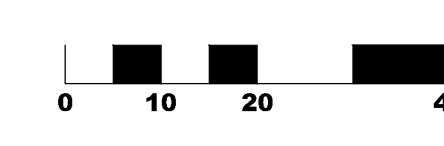
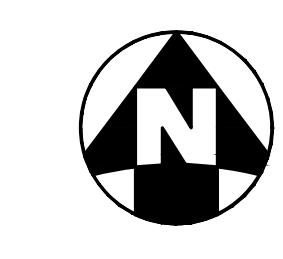
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ISSUANCES	
03-01-24	DESIGN DEVELOPMENT
04-08-24	90% CD
A 04-18-24	BIDPERMIT SET

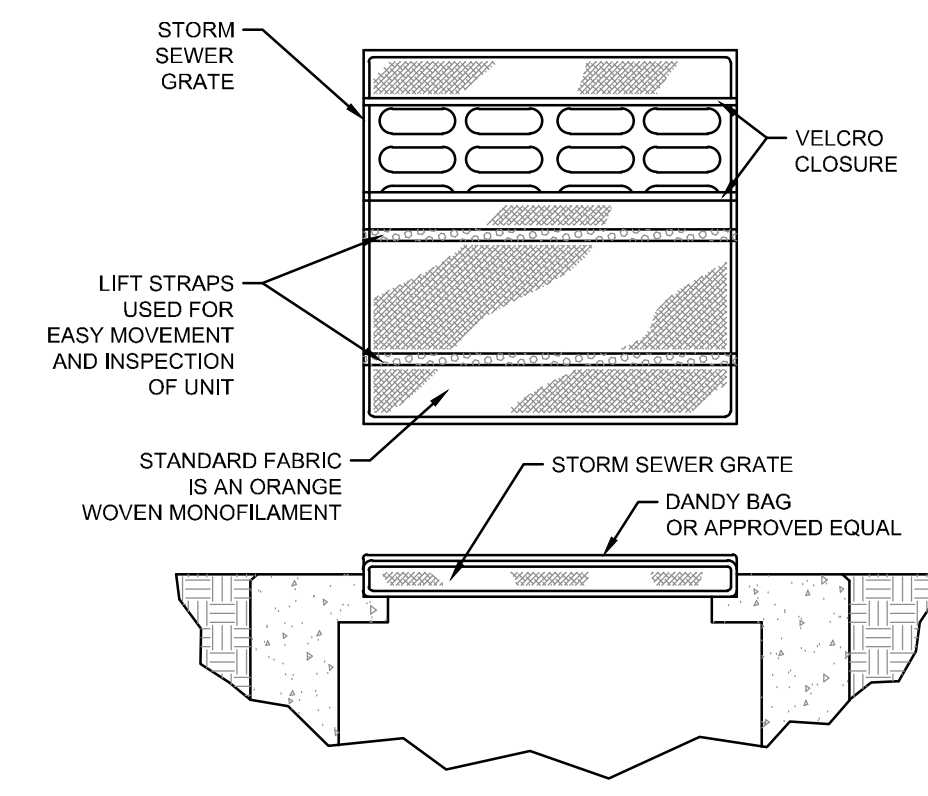
GRADING PLAN

COMM NO. 2024006.01

C150



REFERENCE ONLY

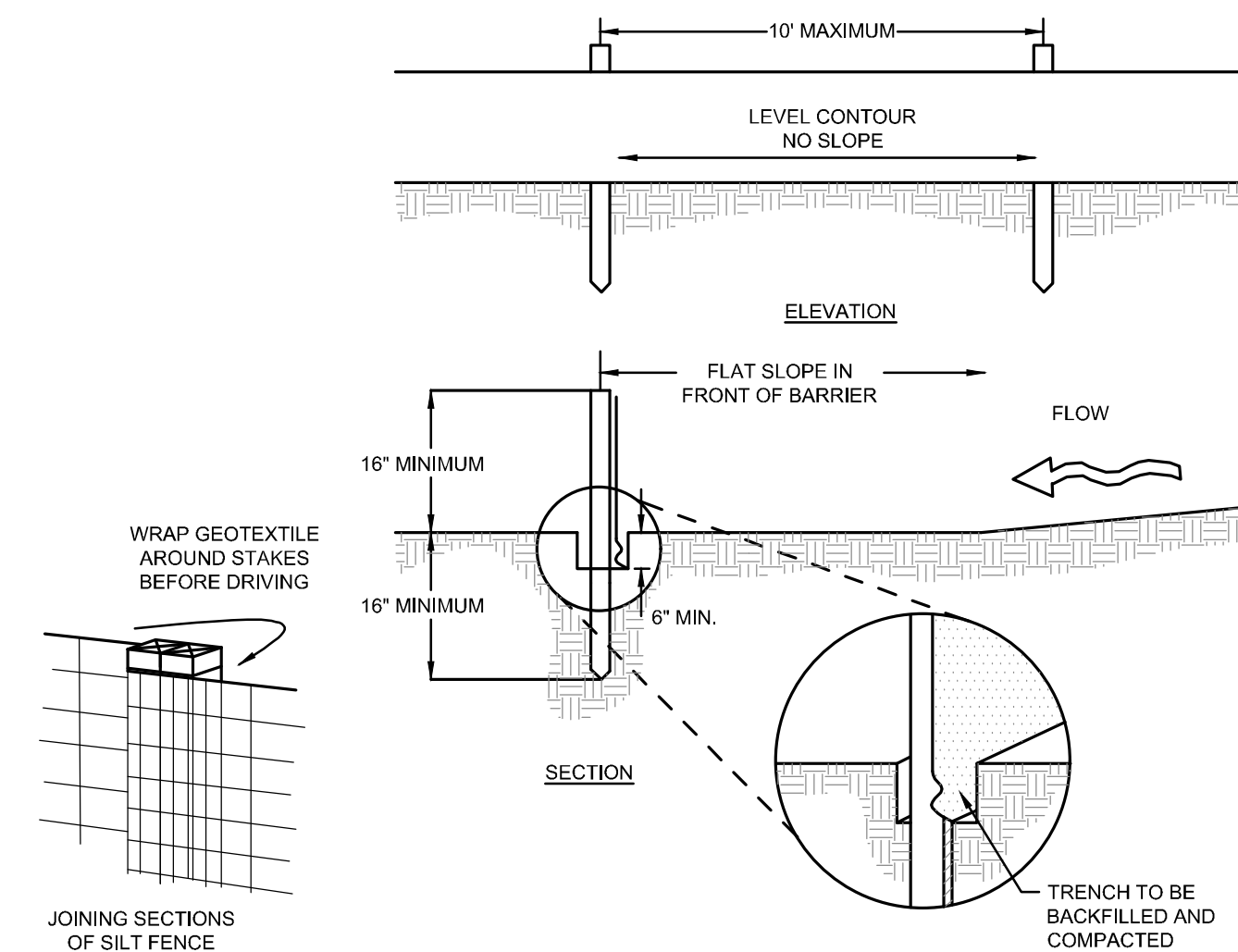


SPECIFICATIONS			
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4832	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4832	%	29 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	300 (450)
TRIANGULAR TEAR STRENGTH	ASTM D 4833	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTANCE	ASTM D 4366	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.625 (1/16)
FLOW RATE	ASTM D 4491	L/MIN(M) (GAL/MIN(F))	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC ²	2.1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH ON THE BOTTOM (BELOW GRATE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

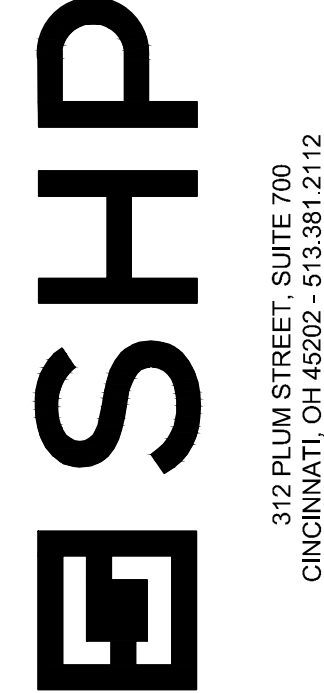
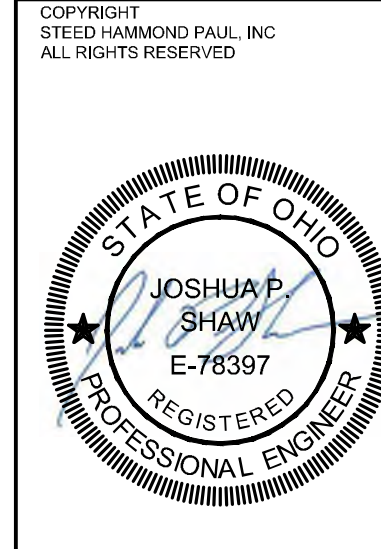
MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS: REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

DANDY BAG DETAIL
N.T.S.



- NOTES:**
- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
 - ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
 - ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
 - SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
 - WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
 - THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
 - THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
 - THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
 - SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND.
 - MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPPS THE SILT FENCE FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED; 2) ACCUMULATED SEDIMENT SHALL BE REMOVED; OR 3) OTHER PRACTICES SHALL BE INSTALLED. SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.
 - SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.
- CRITERIA FOR SILT FENCE MATERIALS:**
- FENCE POST — THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2" BY 2" IN NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 18 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
 - SILT FENCE FABRIC — SEE CHART BELOW.
- | FABRIC PROPERTIES | VALUES | TEST METHOD |
|--------------------------------|--------------------------|-------------|
| MINIMUM TENSILE STRENGTH | 120 LBS. (53.3 N) | ASTM D 4832 |
| MAXIMUM ELONGATION AT 60 LBS. | 50% | ASTM D 4832 |
| MINIMUM PUNCTURE STRENGTH | 50 LBS. (220 N) | ASTM D 4833 |
| MINIMUM TEAR STRENGTH | 40 LBS. (178 N) | ASTM D 4533 |
| APPARENT OPENING SIZE | <0.84 MM | ASTM D 4751 |
| MINIMUM PERMITTIVITY | 1X10 ⁻² SEC-1 | ASTM D 4491 |
| UV EXPOSURE STRENGTH RETENTION | 70% | ASTM G 4355 |

SILT FENCE DETAIL
N.T.S.



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ISSUANCES

DATE	DESCRIPTION
03-01-24	DESIGN DEVELOPMENT
04-08-24	BIDDING
A 04-18-24	BID/PERMIT SET

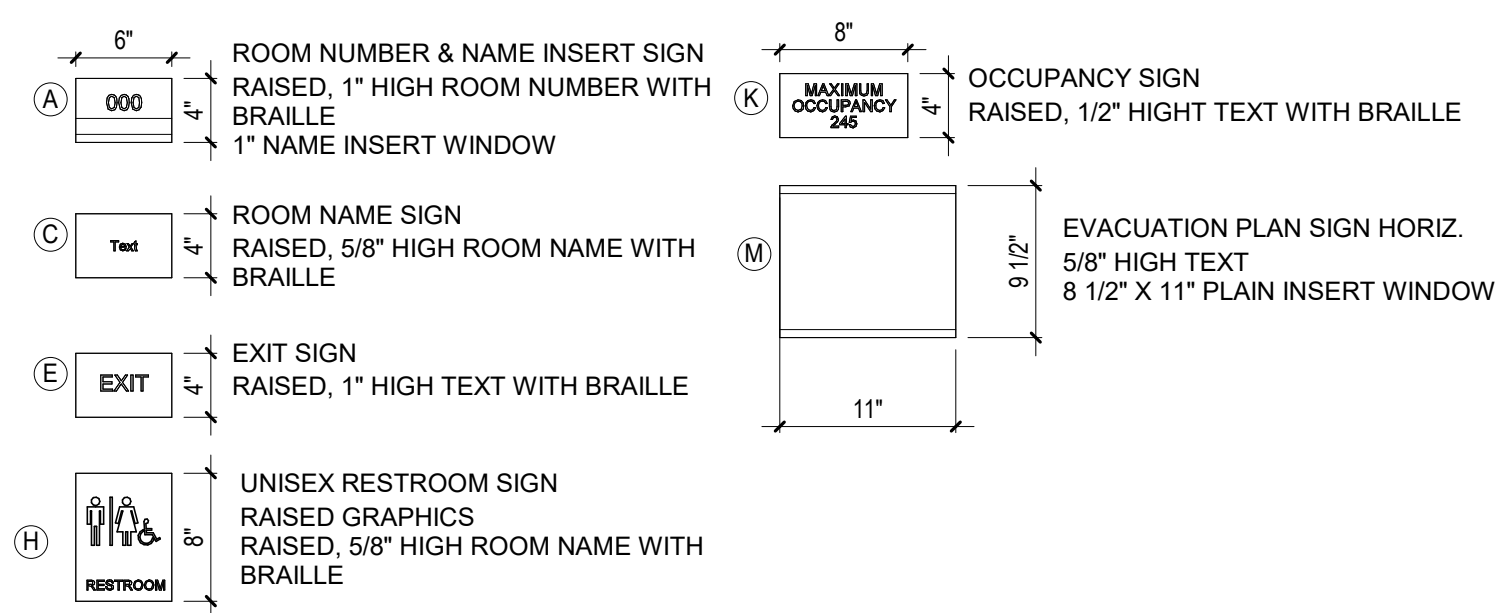
EROSION CONTROL DETAILS

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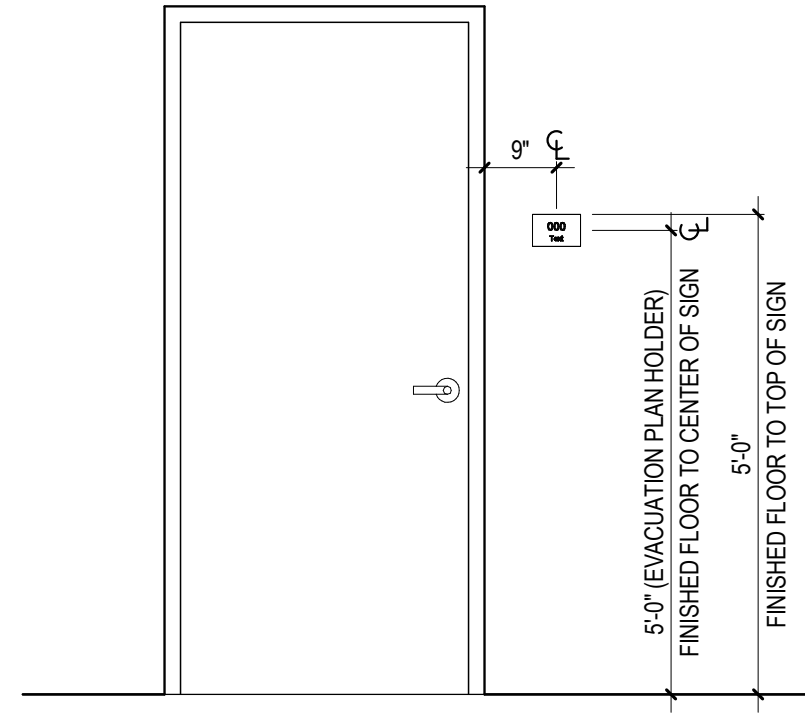
SIGNAGE SCHEDULE			
NUMBER	NAME	SIGN NUMBER	SIGN NAME
T101	AG ED LAB	22	-
T102	CLASSROOM	19	-
T103	SMALL GROUP ROOM	20	-
T104	OFFICE	23	-
T106	MECH TECH LAB	24	-
T107	CORR.		
T108	IT		TECH
T109	STORAGE		STORAGE
T110	LADDER ACCESS		
T111	RR		RESTROOM
T112	STORAGE		STORAGE
T113	STORAGE		STORAGE
T114	EXIST DUST CONT.		



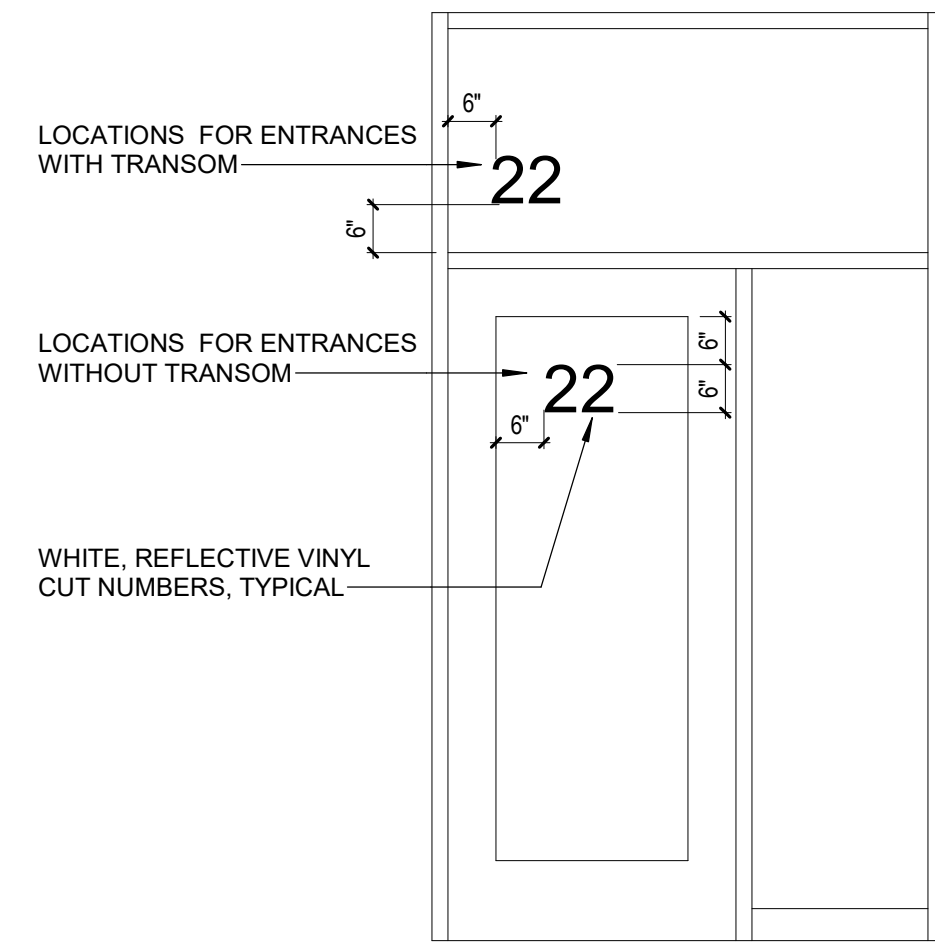
SIGN TYPE KEY

* INDICATES THAT A SIGN IS INSTALLED ON GLASS - INCLUDE A VINYL BACKER CUT TO THE SAME SIZE AS THE ADJACENT SIGN TO CONCEAL MOUNTING TAPE AND SILICONE.
SIGN TYPE

SIGN TYPE LEGEND



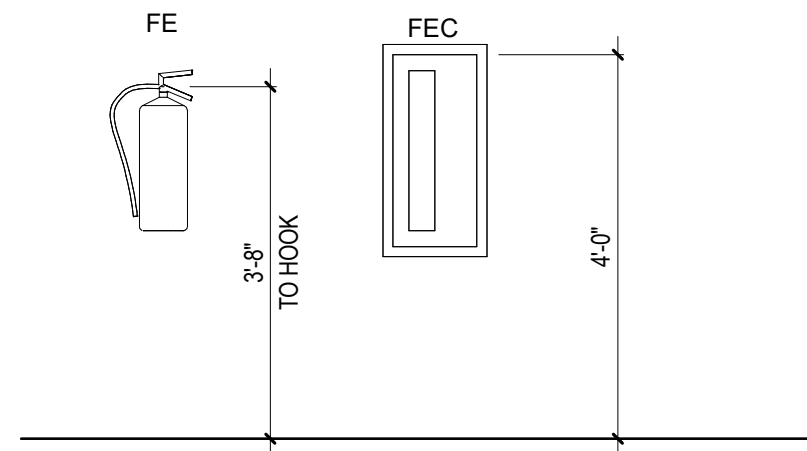
SIGN MOUNTING HEIGHTS



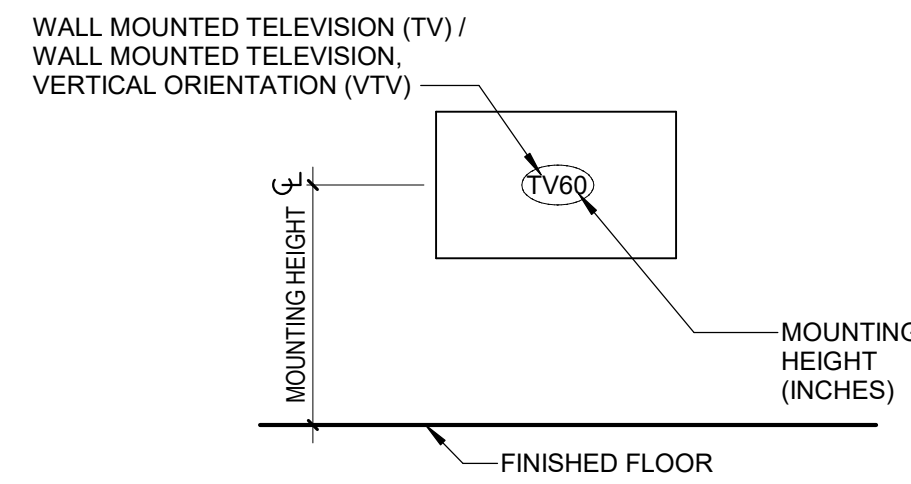
NOTE: WHERE DOOR HAS A SIDELITE ON ONE SIDE ONLY, LOCATE ENTRANCE NUMBER OPPOSITE SIDELITE SIDE (AS SHOWN OR MIRRORRED VERSION) AT ALL OTHER LOCATIONS, ENTRANCE NUMBERS TO BE LOCATED ON THE LEFT SIDE ON ABOVE LEFT-MOST DOOR.

DOOR NUMBERS WILL BE PROVIDED TO SIGNAGE CONTRACTOR DURING SUBMITTALS.

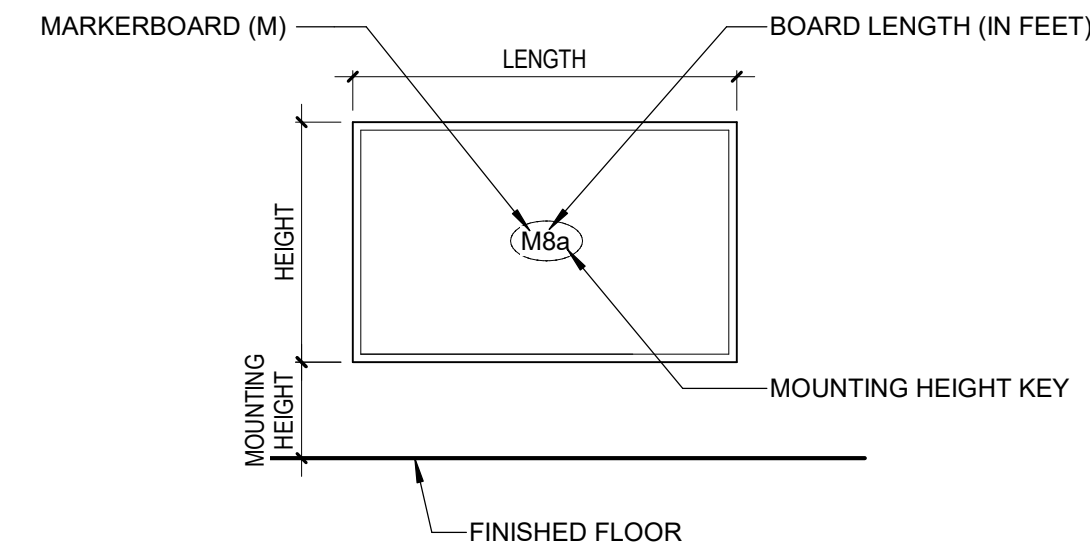
EXTERIOR DOOR NUMBERS



MOUNTING HEIGHTS



TV MOUNTING HEIGHT LEGEND



VISUAL DISPLAY BOARD LEGEND

GENERAL NOTES - DISPLAY BOARDS

A. SEE PLANS FOR BOARD LOCATIONS/DIMENSIONS - IF A BOARD IS NOT DIMENSIONED IT SHOULD BE CENTERED ON THE WALL.

FRAMED MARKERBOARD ASSEMBLIES LEGEND

KEY	LENGTH	HEIGHT	MOUNTING HEIGHT	QUANTITY
M	8'-0"	4'-0"	2'-10"	2

SYMBOLS & LEGENDS

WORK POINT ELEVATION	BD	BOARD
DETAIL NUMBER	BN	BULLNOSE
SHEET NUMBER WHERE SHOWN	CL	CENTERLINE
INTERIOR ELEVATION NUMBER	CJ	CONTROL JOINT
SHEET NUMBER WHERE SHOWN	CLG	CEILING
EXTERIOR ELEVATION NUMBER	CFMF	COLD-FORMED METAL FRAMING
SHEET NUMBER WHERE SHOWN	CMU	CONCRETE MASONRY UNIT
SECTION NUMBER	CONC	CONCRETE
SHEET NUMBER WHERE SHOWN	CONT	CONTINUOUS
WINDOW TYPE (A, B, C, ETC.) OR LOUVER TYPE (L1, L2, L3, ETC.)	DIA	DIAMETER
STOREFRONT TYPE (S1, S2, S3, ETC.) OR CURTAINWALL TYPE (C1, C2, C3, ETC.)	DIM	DIMENSION
PARTITION TYPE	DN	DOWN
CONTROL JOINT (MASONRY)	DEFS	DIRECT-APPLIED EXTERIOR FINISH SYSTEM
CONTROL JOINT (GYPSUM BOARD)	DS	DOWNSPOUT
EXPANSION JOINT	EA	EACH
COLUMN CENTERLINE	EJ	EXTERIOR INSULATION FINISH SYSTEM
KEYNOTE	EL	ELEVATION
VISUAL DISPLAY BOARD	EQ	EQUAL
TV MOUNTING HEIGHT	EJ	EXPANSION JOINT
DOOR NUMBER	FE	FIRE EXTINGUISHER MOUNTED W/ WALL BRACKET
CORNER GUARD	FEC	FIRE EXTINGUISHER IN CABINET
PENCIL SHARPENER	FT	FOOT OR FEET
SIGN	GA	GAUGE
TOILET BATH ACCESSORY	GYP BD	GYPSUM BOARD
	HR	HEIGHT
	HT	HEIGHT
	LGMF	LIGHT GAUGE METAL FRAMING
	NIC	NOT IN CONTRACT
	NTS	NOT TO SCALE
	MO	MASONRY OPENING
	OC	ON CENTER
	OPP	OPPOSITE HAND
	R	RADIUS
	RD	ROOF DRAIN
	RO	ROUGH OPENING
	SM	SIMILAR
	SRD	SECONDARY ROOF DRAIN
	TYP	TYPICAL
	UNO	UNLESS NOTED OTHERWISE
	WD	WOOD
		CMU
		BRICK
		CMU - SOLID
		DRAINAGE FILL
		CAST STONE
		GROUT FILL
		EARTH
		GYPSUM BOARD
		CONTINUOUS WOOD BLOCKING
		RIGID INSULATION
		BLANKET INSULATION
		FINISH WOOD

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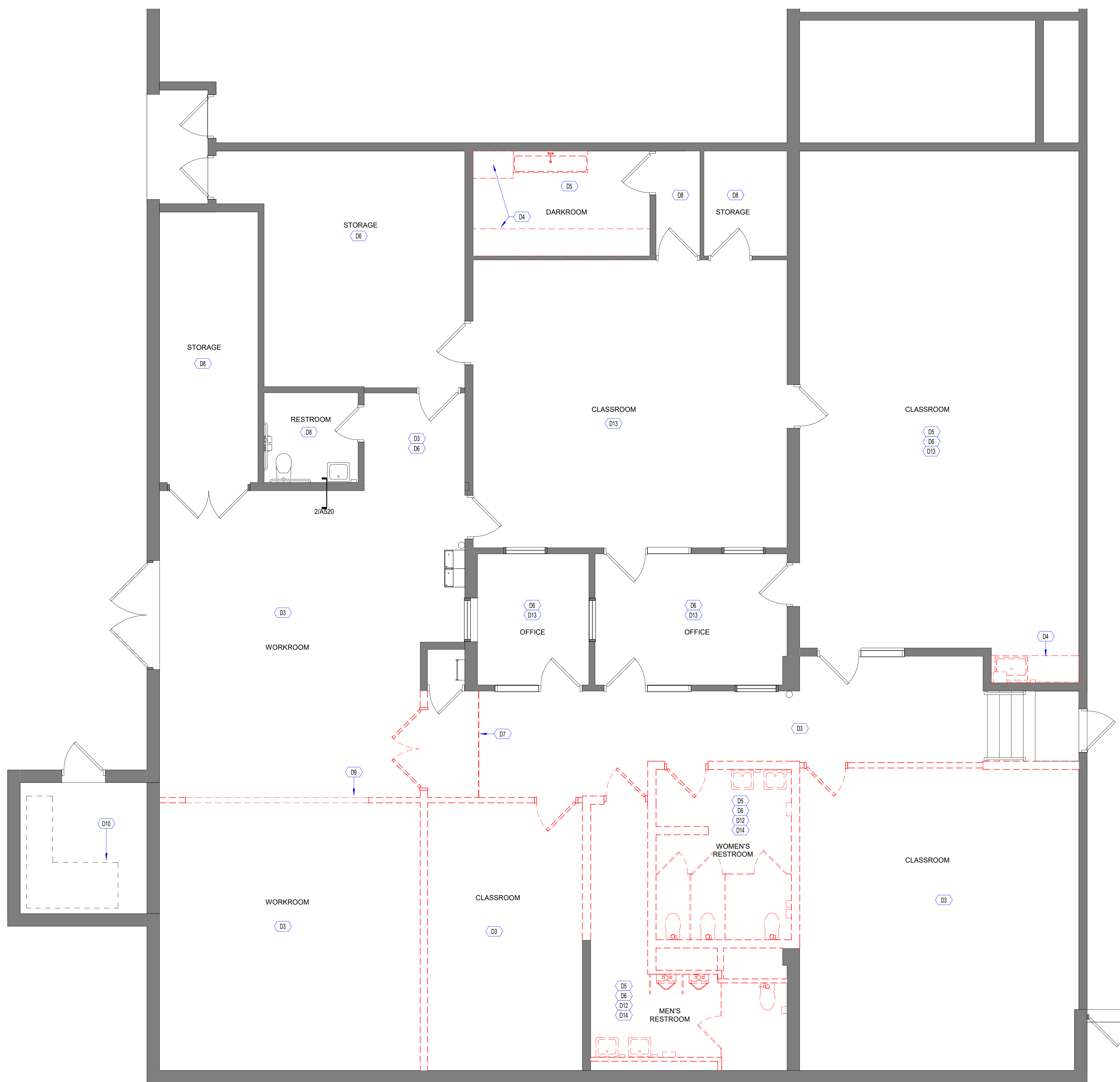
ISSUANCES

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04-09-24	10% CD
04-18-24	BID/PERMIT SET

LEGENDS AND DETAILS

COMM NO. 2024006.01

A001



1 FIRST FLOOR DEMO PLAN - AG ED SHOP
AD101 1/4" = 1'-0"

GENERAL NOTES - DEMOLITION PLAN

A. REPAIR EXISTING SURFACES WHERE DEMOLITION HAS OCCURRED FOR NEW CONSTRUCTION. GENERAL TRADES CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION WORK. PATCHING/CUTTING OF EXISTING SURFACES FOR NEW WORK SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR PERFORMING THE WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, FINISH, TEXTURE, ETC. THIS WORK IS TO BE INCLUDED IN BASE BID AND IS NOT TO BE INCLUDED IN THE QUANTITY ALLOWANCE.

B. UNLESS DIRECTED BY OWNER, ALL MISCELLANEOUS ITEMS ATTACHED TO FLOORS, WALLS, OR CEILINGS ARE TO BE REMOVED THAT INTERFERE WITH INSTALLATION OR ALIGNMENT OF NEW WORK. THIS INCLUDES BUT NOT LIMITED TO: SHELVES, BRACKETS, POSTERS, PAINTINGS, ART OR OTHER DISPLAYS, PROJECTION SCREENS, AND VISUAL DISPLAY BOARDS. OWNER WILL REMOVE ALL LOOSE FURNITURE/APPLIANCES IN ROOMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

C. AT ALL EXISTING SURFACES SCHEDULED TO RECEIVE A NEW PAINT FINISH REMOVE ANY EXISTING FASTENERS, BRACKETS, ETC. IN WALLS THAT ARE NOT BEING USED AND PATCH TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC. PATCH CHIPPED PAINT SURFACES ON PLASTER WALLS TO MATCH ADJACENT SURFACE TEXTURE. SAND CHIPPED EDGES ON WOOD AND METAL SURFACES SMOOTH.

D. NOT ALL ROOM MATERIAL/FINISH DEMOLITION INDICATED. WHERE NEW MATERIAL/FINISH IS INDICATED IN ROOM FINISH SCHEDULE, REMOVE EXISTING MATERIALS/FINISH INCLUDING FLOOR AND BASE. ADHESIVES/MASTICS, FLOOR SEALERS AND CURING COMPOUNDS, AND FLOOR PAINT WHETHER OR NOT SHOWN TO BE REMOVED ON DEMOLITION FLOOR PLANS.

E. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

F. REMOVE EXISTING WOOD BASE WHERE NEW CASEWORK EXTENDS TO FLOOR.

G. WHERE FLOOR SLABS TO REMAIN ARE DISCONTINUOUS AT WALLS AND PARTITIONS NOTED TO BE REMOVED, REMOVE WALL/PARTITION TO BELOW FLOOR SLAB AND PATCH SLAB THROUGH OPENING.

H. WHERE NEW OPENINGS OCCUR WHERE EXISTING WALLS HAVE BEEN REMOVED, FEATHER CEMENT-BASED UNDERLAYMENT AT A DISTANCE OF 8 FEET FROM EACH JAMB TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING FLOOR FINISHES ON EACH SIDE OF THE OPENING. FLOOR SURFACE SHALL BE FLAT WITHIN 3/16" IN 10 FEET IN ACCORDANCE WITH ASTM F710.

KEY NOTES - DEMOLITION PLANS

D3 REMOVE FLOORING, BASE, AND ADHESIVES

D4 REMOVE CASEWORK

D5 REMOVE ALL PLUMBING FIXTURES IN ROOM

D6 REMOVE CEILING, LIGHT FIXTURES, AND OTHER CEILING DEVICES

D7 REMOVE METAL GATE AND FRAME

D8 NO WORK, THIS ROOM

D9 REMOVE PARTITION WITH ACCORDIAN DOOR

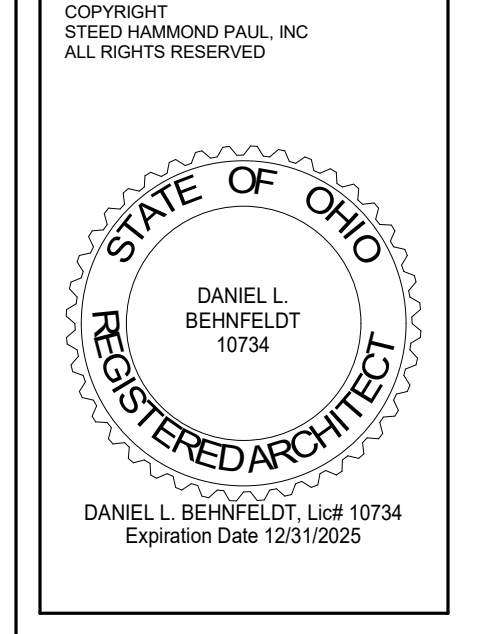
D10 REMOVE DUST COLLECTION SYSTEM. PATCH FLOOR.

D11 REMOVE RESINOUS FLOORING AND BASE AS REQUIRED TO ALLOW FOR NEW RESINOUS FLOORING

D12 REMOVE HAZARDOUS MATERIAL FLOORING. REFER TO SPECIFICATIONS FOR MORE INFORMATION

D13 REMOVE HAZARDOUS MATERIAL FLOORING. REFER TO SPECIFICATIONS FOR MORE INFORMATION

D14 REMOVE WALL TILE ENTIRELY AT WALLS SHOWN TO REMAIN



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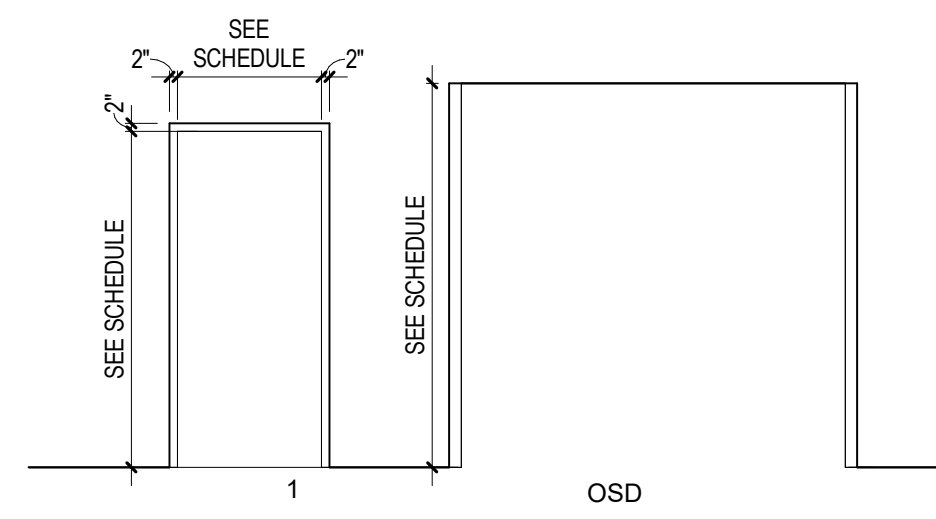
NO.	DATE	DESCRIPTION
03	01-24	DESIGN DEVELOPMENT
04	09-24	10% CD
A	04-18-24	BID/PERMIT SET

FIRST FLOOR DEMO PLAN - AG ED SHOP

COMM NO. 2024006.01

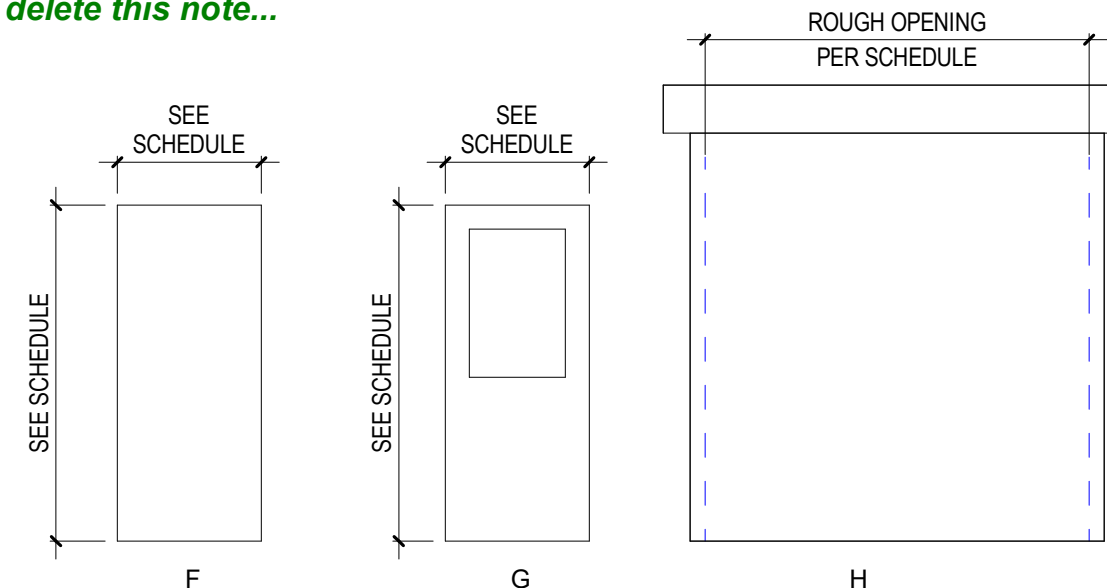
AD101

ALL THINGS ADDED TO THE LEGENDS VIEW SHOULD BE CREATED IN LEGEND LAST PHASE
delete this note...



FRAME TYPES
NTS

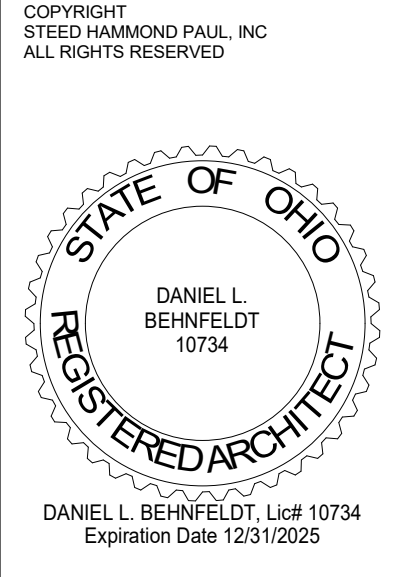
ALL THINGS ADDED TO THE LEGENDS VIEW SHOULD BE CREATED IN LEGEND LAST PHASE
delete this note...



DOOR TYPES
NTS

OPENING SCHEDULE ABBREVIATIONS

AL	ALUMINUM
HM	HOLLOW METAL
PF	PREFINISHED
PT	PAINT
SS	STAINLESS STEEL
STL	STEEL
WD	WOOD



BORROWED LIGHT SCHEDULE

#	BORROWED LIGHT		SILL HEIGHT	FRAME							GLASS TYPE	RATING (MINUTES)	NOTES	DOOR #
	WIDTH	HEIGHT		DEPTH	TYPE	MATL	FINISH	HEAD	JAMB	SILL				

GENERAL NOTES - PARTITIONS

- A. REFER TO BUILDING AND WALL SECTIONS FOR EXTERIOR WALL TYPES.
- B. REFER TO STRUCTURAL DRAWINGS FOR TYPE AND LOCATION OF REQUIRED REINFORCING AT MASONRY WALLS.

LOUVER SCHEDULE

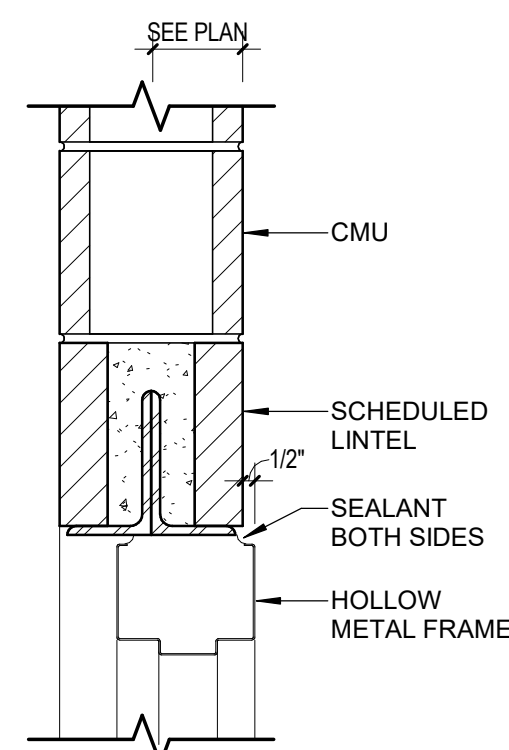
TYPE	WIDTH	HEIGHT	COMMENTS
L10	3'-4"	5'-10"	

LOUVER SCHEDULE

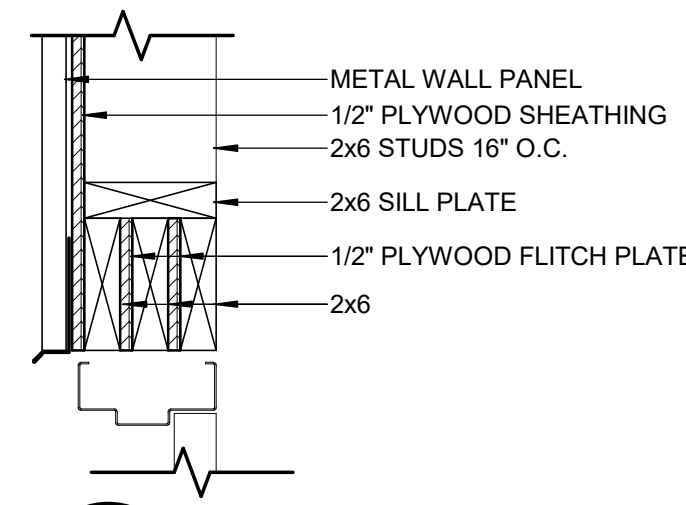
TYPE	WIDTH	HEIGHT	COMMENTS
L10	3'-4"	5'-10"	

DOOR AND FRAME SCHEDULE

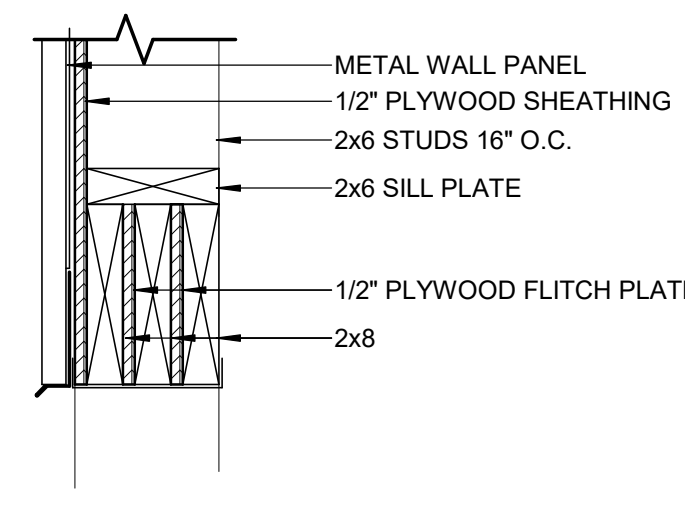
#	# OF LEAFS	DOOR							FRAME							HDWR SET	NOTES	DOOR #
		WIDTH	HEIGHT	THK	TYPE	MATL	FINISH	GLASS	DEPTH	TYPE	E-FRAME	MATL	FINISH	HEAD	JAMB			
2001A	1	3'-0"	7'-0"	1.34"	G	WD	ST	G-1	7.34"	1	-	HM	GALV	H3	J4.1			2001A
2001B	1	10'-0"	10'-0"	1.34"	H	STL	PREFIN	-	7.34"	1	-	HM	GALV	H2	J2.J2.1			2001B
2001C	1	3'-0"	7'-0"	1.34"	G	WD	ST	G-1	7.34"	1	-	HM	GALV	H4	J4.J4.1			2001C
2001D	1	10'-0"	10'-0"	1.34"	H	STL	PREFIN	-	7.34"	1	-	HM	GALV	H2	J2.J2.1			2001D
2001E	1	5'-4"	8'-0"	33'-0"	F	WD	ST	-	2"	OSD	-	HM	GALV	H2	J2.J2.2			2001E
2001F	1	5'-4"	8'-0"	33'-0"	F	WD	ST	-	2"	OSD	-	HM	GALV	H2	J2.J2.2			2001F
2001G	1	5'-4"	8'-0"	33'-0"	F	WD	ST	-	2"	OSD	-	HM	GALV	H2	J2.J2.2			2001G
2001H	1	5'-4"	8'-0"	33'-0"	F	WD	ST	-	2"	OSD	-	HM	GALV	H2	J2.J2.2			2001H
2001J	1	5'-4"	8'-0"	33'-0"	F	WD	ST	-	2"	OSD	-	HM	GALV	H2	J2.J2.2			2001J
2001K	1	5'-4"	8'-0"	33'-0"	F	WD	ST	-	2"	OSD	-	HM	GALV	H2	J2.J2.2			2001K
2001M	1	5'-4"	8'-0"	33'-0"	F	WD	ST	-	2"	OSD	-	HM	GALV	H2	J2.J2.2			2001M
2001N	1	5'-4"	8'-0"	33'-0"	F	WD	ST	-	2"	OSD	-	HM	GALV	H2	J2.J2.2			2001N
2001P	1	5'-4"	8'-0"	33'-0"	F	WD	ST	-	2"	OSD	-	HM	GALV	H2	J2.J2.2			2001P
2001R	1	5'-4"	8'-0"	33'-0"	F	WD	ST	-	2"	OSD	-	HM	GALV	H2	J2.J2.2			2001R
2002	1	3'-0"	7'-0"	1.34"	G	WD	ST	-	7.12"	1	-	HM	GALV	H3	J3	S1A520		2002
3001A	2	3'-0"	7'-0"	1.34"	G	HM	PT1	G-1	5.34"	1	-	HM	GALV	-	-	S1	01	3001A
3001B	1	3'-0"	7'-0"	1.34"	G	WD	ST	G-1	5.34"	1	-	HM	GALV	-	-	S1	02	3001B



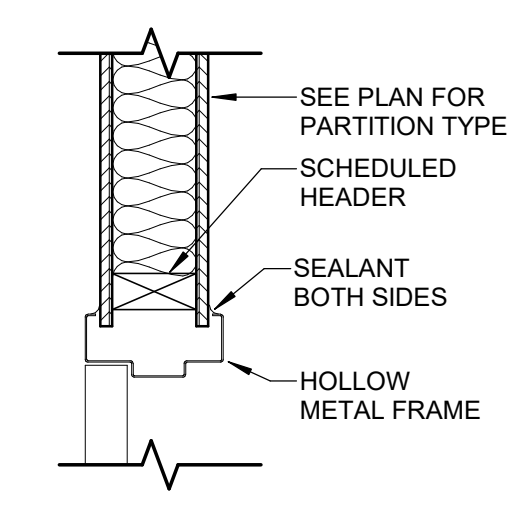
H4 HEAD DETAIL
A011 1 1/2" = 1'-0"



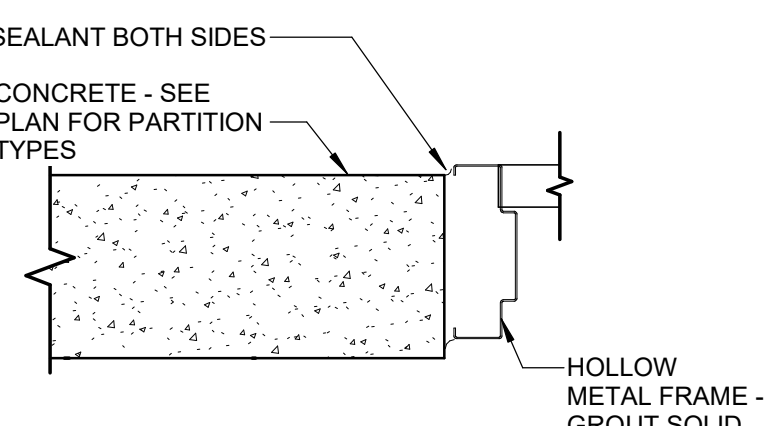
H1 HEAD DETAIL
A011 1 1/2" = 1'-0"



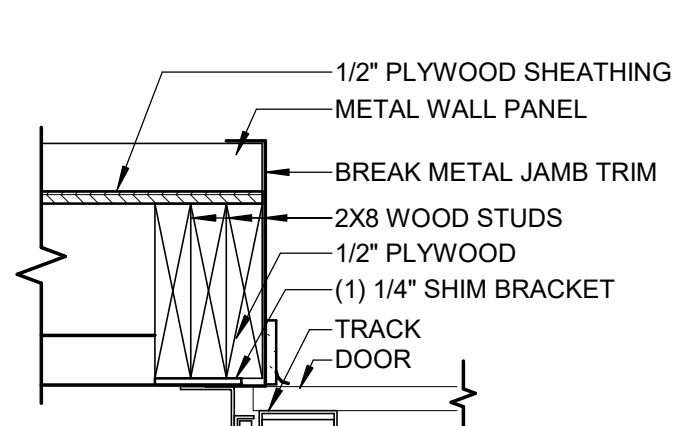
H2 HEAD DETAIL
A011 1 1/2" = 1'-0"



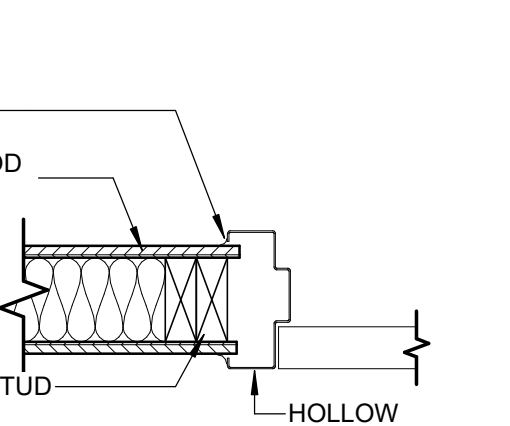
H3 HEAD DETAIL
A011 1 1/2" = 1'-0"



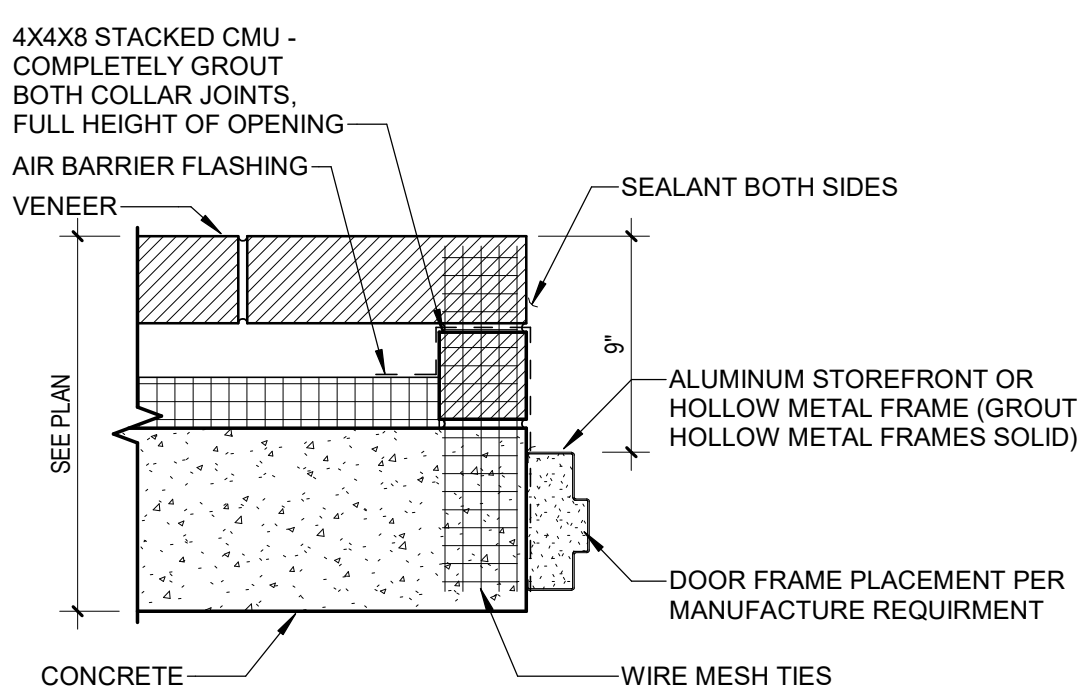
J1 JAMB DETAIL
A011 1 1/2" = 1'-0"



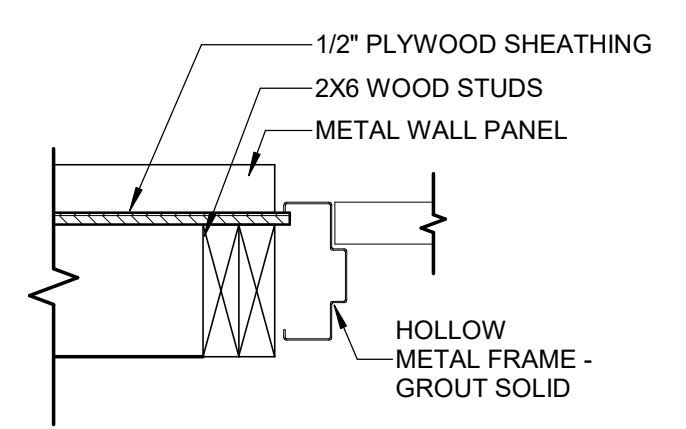
J2 JAMB DETAIL
A011 1 1/2" = 1'-0"



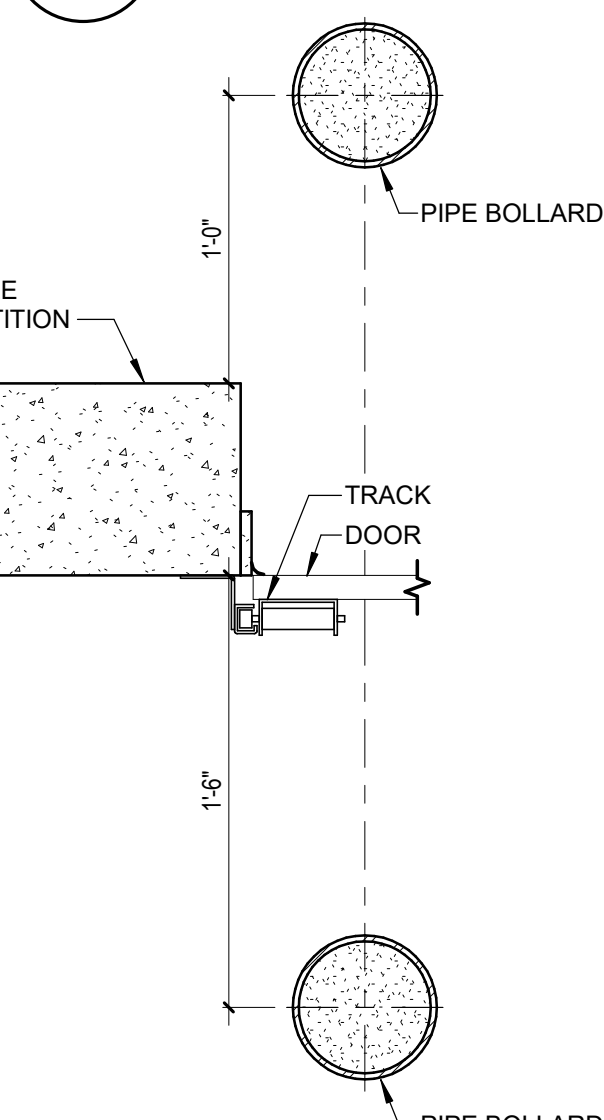
J3 JAMB DETAIL
A011 1 1/2" = 1'-0"



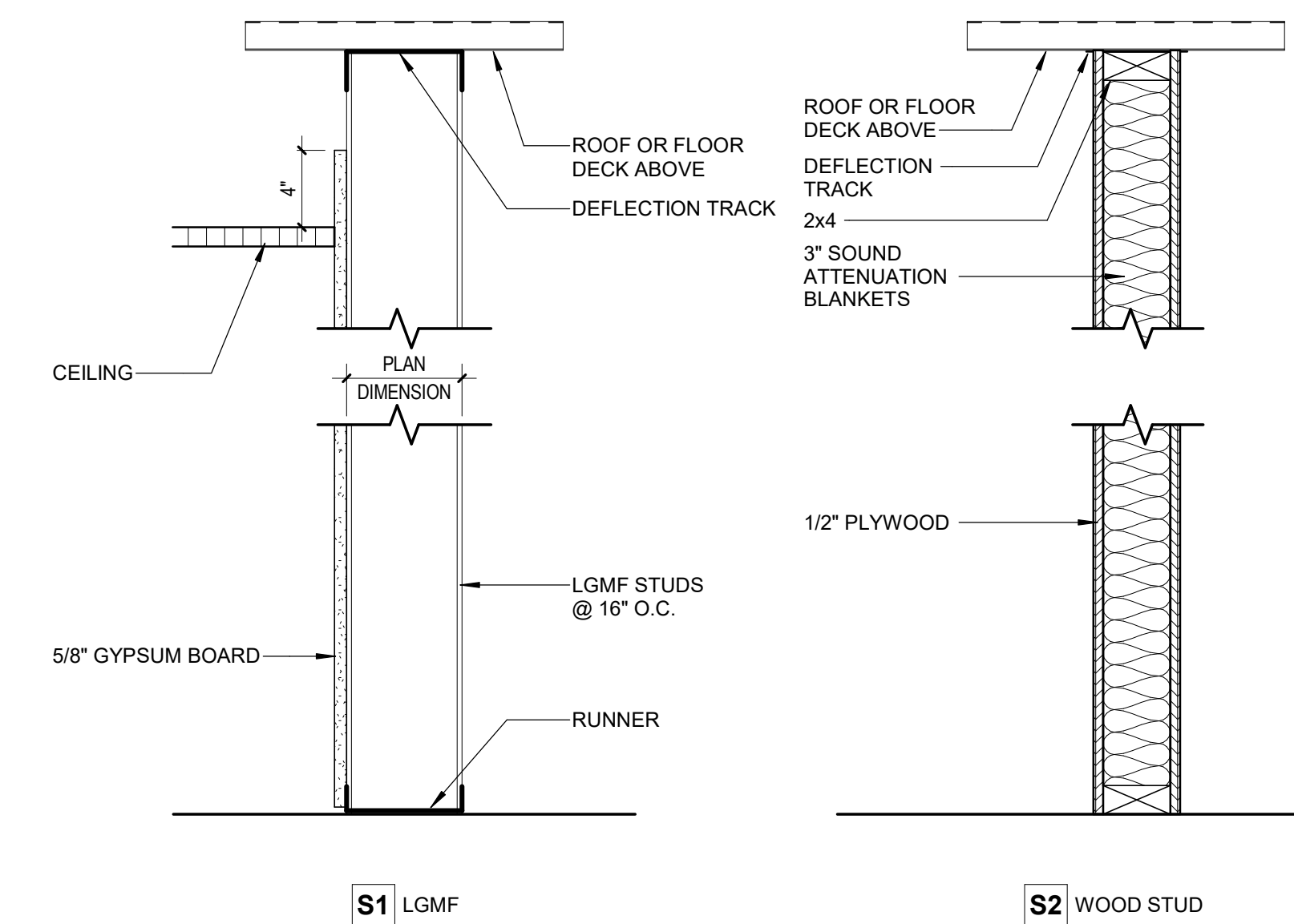
J8 JAMB DETAIL
A011 1 1/2" = 1'-0"



J1.1 JAMB DETAIL
A011 1 1/2" = 1'-0"



J2.1 JAMB DETAIL
A011 1 1/2" = 1'-0"



PARTITION TYPES

ISSUANCES

NO.	DATE	DESCRIPTION
04-08-24	100% CD	
04-16-24	BID/PERMIT SET	

PARTITIONS, OPENING INFORMATION & DETAILS

COMM NO. 2024006.01

A011

ISSUANCES

03-01-24	DESIGN DEVELOPMENT
04-09-24	100% CD
04-18-24	BID/PERMIT SET

FIRST FLOOR PLAN - AG ED SHOP

- FLOOR PLAN LEGEND**
- NO WORK THIS AREA
 - NEW WALL/PARTITION
 - EXISTING CONSTRUCTION TO REMAIN
 - NEW DOOR AS SCHEDULED
 - EXISTING DOOR AND FRAME TO REMAIN

- GENERAL NOTES - FLOOR PLAN**
- A. SEE A001 FOR SYMBOLS LEGEND.
 - B. ALL PARTITIONS TYPE M1 UNLESS NOTED OTHERWISE.
 - C. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.
 - D. SEE PLANS FOR BOARD LOCATIONS/DIMENSIONS - IF A BOARD IS NOT DIMENSIONED IT SHOULD BE CENTERED ON THE WALL.

- KEY NOTES - FLOOR PLAN**
- A7 ALIGN FINISH FACE

- KEY NOTES - SHOP EQUIPMENT**
- SE1 MITER SAW WITH ROLLING MITER STAND, OWNER PROVIDED AND INSTALLED
 - SE2 DRILL PRESS, OWNER PROVIDED AND INSTALLED
 - SE3 LINCOLN POWER MIG, OWNER PROVIDED AND INSTALLED
 - SE4 CANTILEVER RACK SINGLE SIDED - 48"W X 33"D X 6'H, OWNER PROVIDED AND INSTALLED
 - SE5 DUST COLLECTOR, OWNER PROVIDED AND INSTALLED
 - SE6 BAND SAW, OWNER PROVIDED AND INSTALLED
 - SE7 GRINDER, OWNER PROVIDED AND INSTALLED
 - SE8 SANDER, OWNER PROVIDED AND INSTALLED
 - SE9 PLANER, OWNER PROVIDED AND INSTALLED
 - SE10 PRO WELDING BENCH - 36" X 24" (NIC)
 - SE11 AIR COMPRESSOR, OWNER PROVIDED AND INSTALLED
 - SE12 METAL BAND SAW, OWNER PROVIDED AND INSTALLED
 - SE13 TABLE SAW, OWNER PROVIDED AND INSTALLED
 - SE14 STORAGE CABINET 36" X 34" X 71 3/4" (NIC)
 - SE15 WORK BENCH - 72"W X 36"D X 34H (NIC)
 - SE16 GLOBAL FLAMMABLE CABINET - 34"W X 34"D X 65"H (NIC)
 - SE17 FOUR STATION WORK BENCH (NIC)
 - SE18 ROUND STOOL - HEIGHT RANG 25" TO 33" (NIC)
 - SE21 QUENCH TANK
 - SE22 WELDING BOOTH WITH CURTAIN ROD AND CURTAIN

KEY TO CASEWORK NUMBERS

LETTER INDICATES CASEWORK TYPE:
 (L = LABORATORY, M = MUSIC)
 NO DESIGNATION INDICATES STANDARD EDUCATIONAL CASEWORK)

INDICATES ADA ACCESSIBLE CABINET

WIDTH/HEIGHT/DEPTH (NOMINAL DIMENSIONS BASED ON CABINET WITH COUNTERTOP)

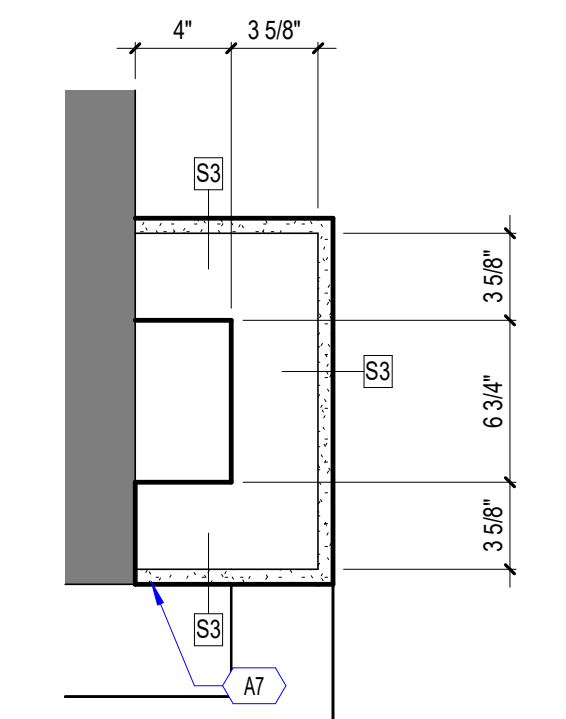
L 36/72/30
ADA

GENERAL NOTES - CASEWORK

- D. ALL PLASTIC LAMINATE CASEWORK TO BE PLAM-1 UNLESS NOTED OTHERWISE. ALL PLASTIC LAMINATE COUNTERTOPS TO BE PLAM-2
- H. UNLESS NOTED OTHERWISE, ALL SHELVES ARE TO BE ADJUSTABLE UNLESS A FIXED SHELF IS REQUIRED FOR CABINET STABILITY.
- J. DRAWERS WITH AN "X" ON THEM ARE TO BE FILE DRAWERS. SIZE DRAWER AND PROVIDE HARDWARE FOR FRONT-TO-BACK LETTER-SIZE FILING.

FINISH LISTING - LAMINATES

PLAM-1	WILSONART, FOSSIL SHALE D504-60
PLAM-2	WILSONART, PEARL SOAPSTONE 4886-80

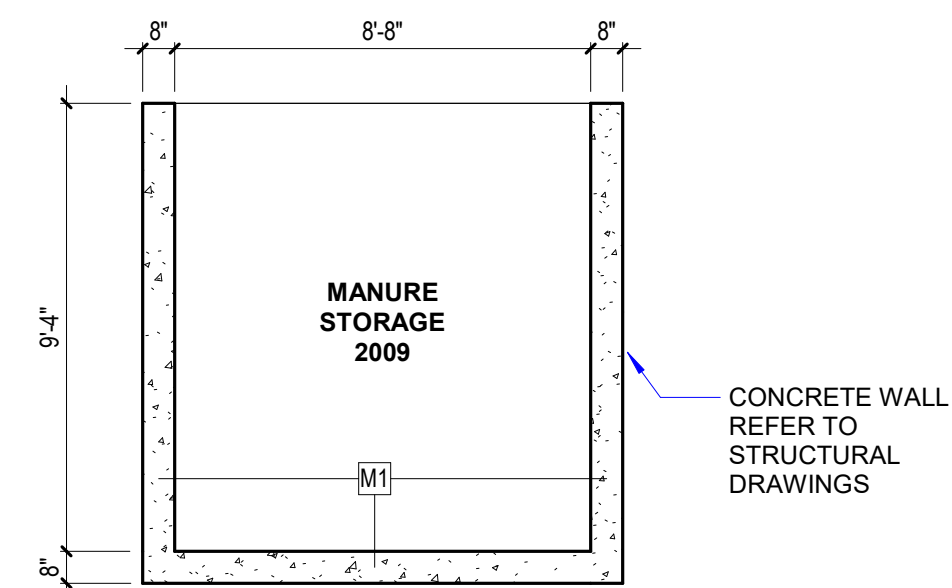


3 PLAN DETAIL - PLUMBING CHASE
A101 1/12" = 1'-0"

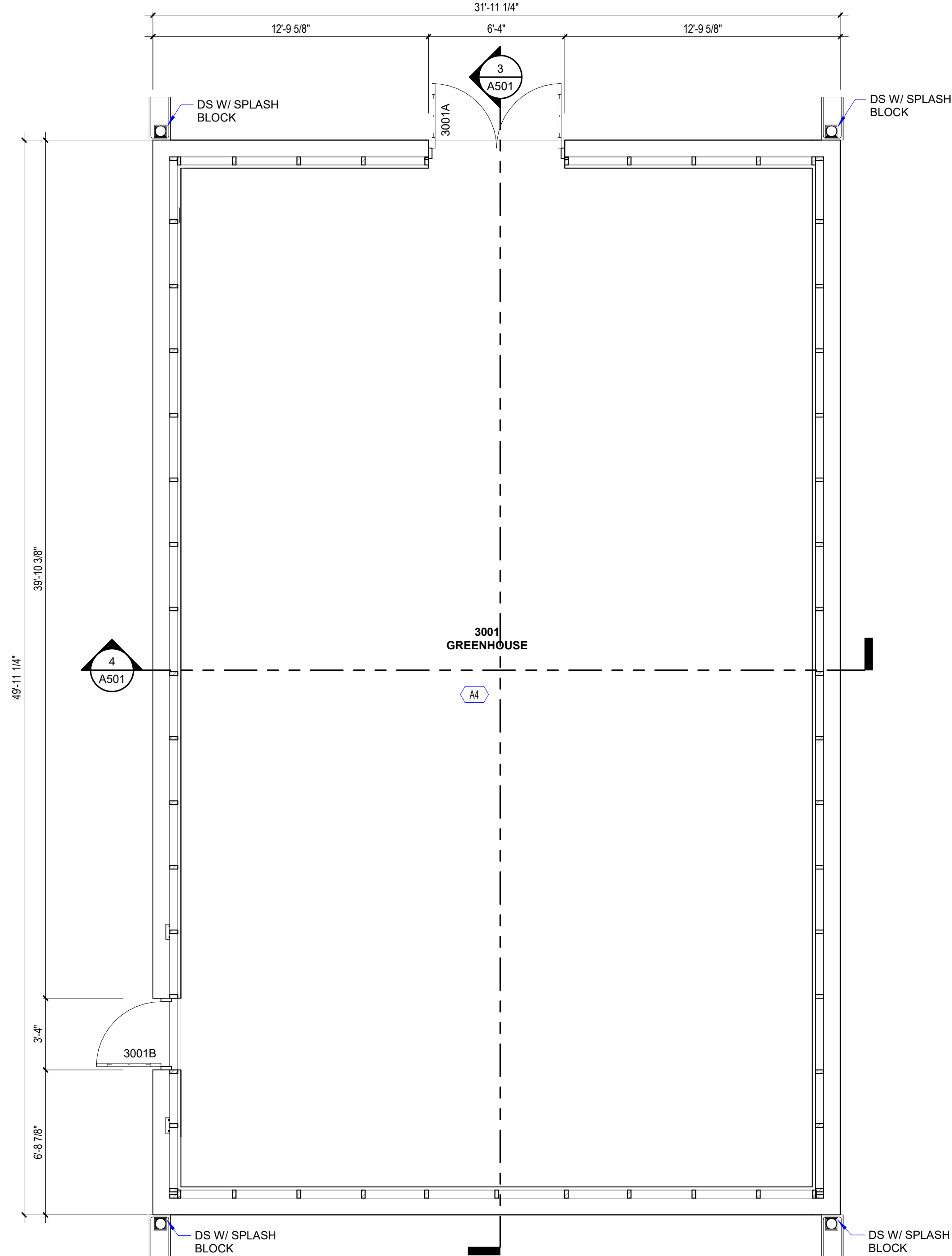
1 FIRST FLOOR PLAN - AG ED SHOP
A101 1/4" = 1'-0"

2 1102 CLASSROOM
A101 1/2" = 1'-0"

1 ROOF PLAN - AG ED STORAGE
A102 1/8" = 1'-0"

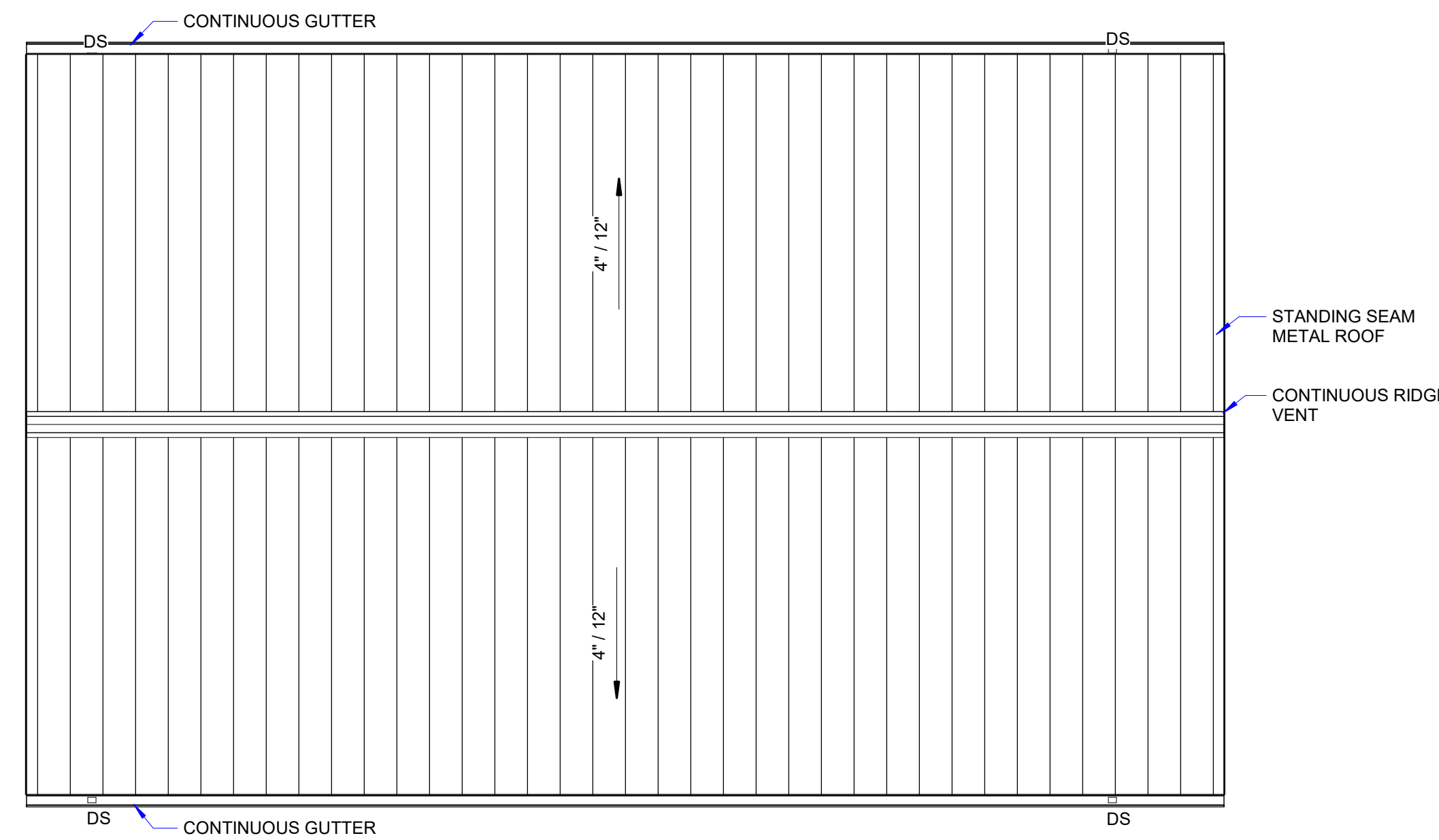


3 FIRST FLOOR PLAN - AG ED STORAGE
A102 1/4" = 1'-0"

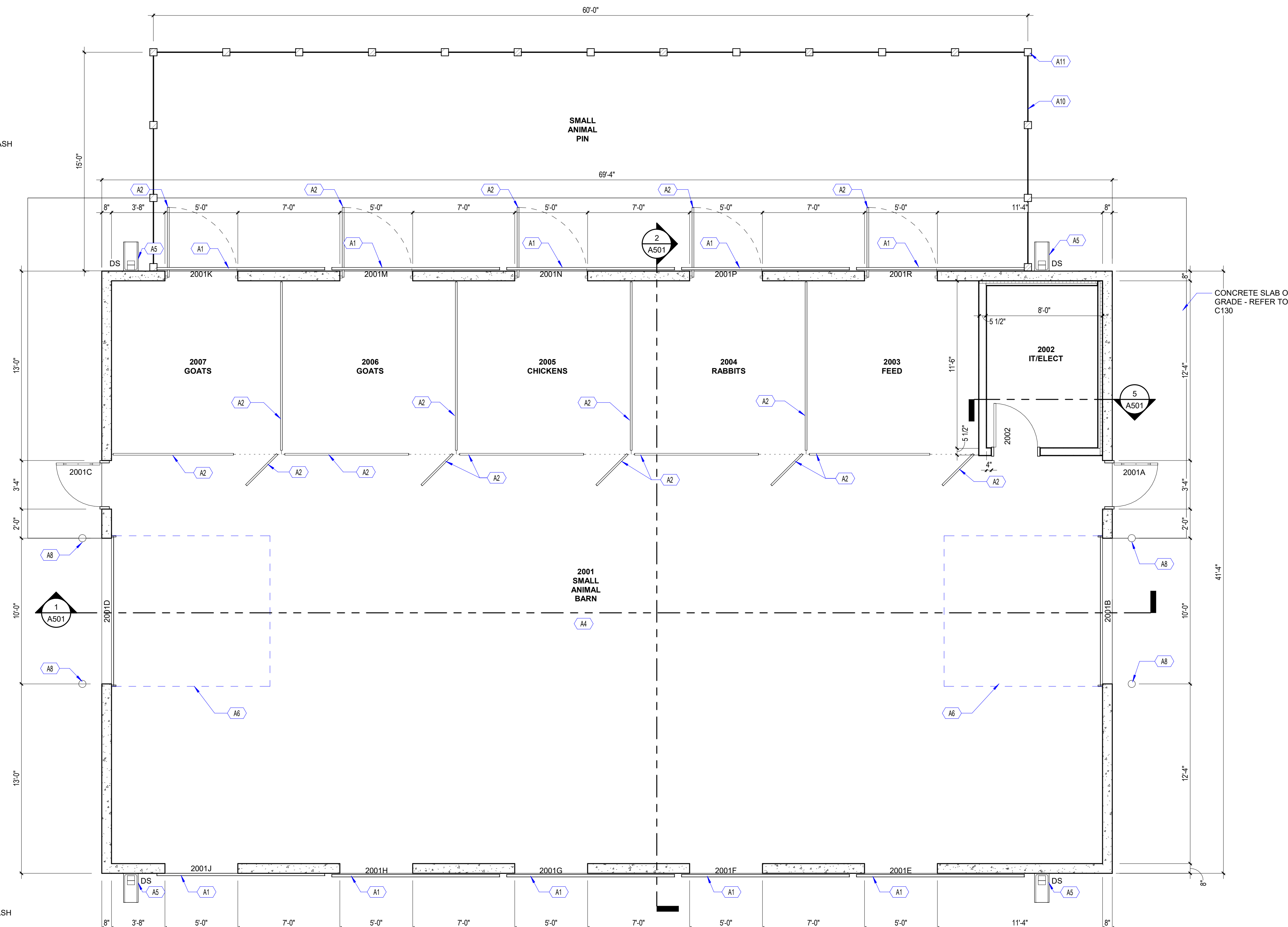


4 FIRST FLOOR PLAN - AG ED GREENHOUSE
A102 1/4" = 1'-0"

2 ROOF PLAN - SMALL ANIMAL AG ED BARN
A102 1/8" = 1'-0"



5 FIRST FLOOR PLAN - AG ED BARN
A102 1/4" = 1'-0"

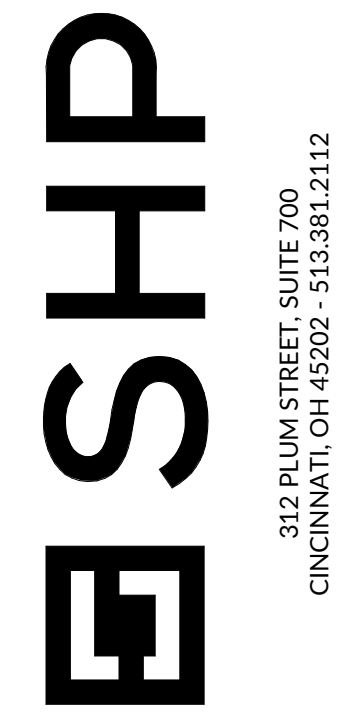
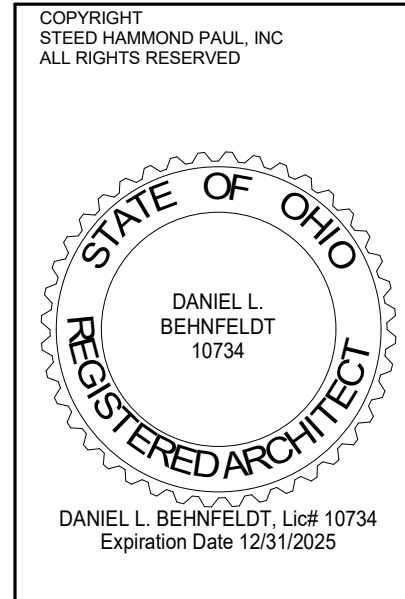


GENERAL NOTES - FLOOR PLAN

- A. SEE A001 FOR SYMBOLS LEGEND.
- B. ALL PARTITIONS TYPE M1 UNLESS NOTED OTHERWISE.
- C. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.
- D. SEE PLANS FOR BOARD LOCATIONS/DIMENSIONS - IF A BOARD IS NOT DIMENSIONED IT SHOULD BE CENTERED ON THE WALL.

KEY NOTES - FLOOR PLAN

- A1 SLIDING BARN DOOR WITH OVERHEAD TRACK
- A2 4" HIGH STEEL GUARDGATE WITH VERTICAL PICKETS 5" O.C. - PAINT
- A4 FINISH FLOOR TO BE BROOM FINISH CONCRETE
- A5 DS W/ SPLASH BLOCK
- A6 OUTLINE OF OVERHEAD SECTIONAL DOOR WHEN OPEN
- A8 STEEL BOLLARD
- A10 5' HIGH WIRE MESH FENCE
- A11 6x6 WOOD POSTS @ 5' OC - TYP
- A12 CONCRETE WALL - REFER TO STRUCTURAL DRAWINGS
- A14 CONCRETE SLAB ON GRADE - REFER TO C130



JEFFERSON TOWNSHIP HIGH SCHOOL
AGRICULTURE EDUCATION FACILITY
 2701 SOUTH UNION ROAD, DAYTON OH 45417
 JEFFERSON TOWNSHIP LOCAL SCHOOL DISTRICT
 2625 SOUTH UNION ROAD, DAYTON OH 45417

ISSUANCES

NO.	DATE	DESCRIPTION
03-01-24	DESIGN DEVELOPMENT	
04-09-24	10% CD	
A 04-18-24	BID/PERMIT SET	

FIRST FLOOR PLAN - AG ED OUTBUILDINGS

COMM NO. 2024006.01

A102

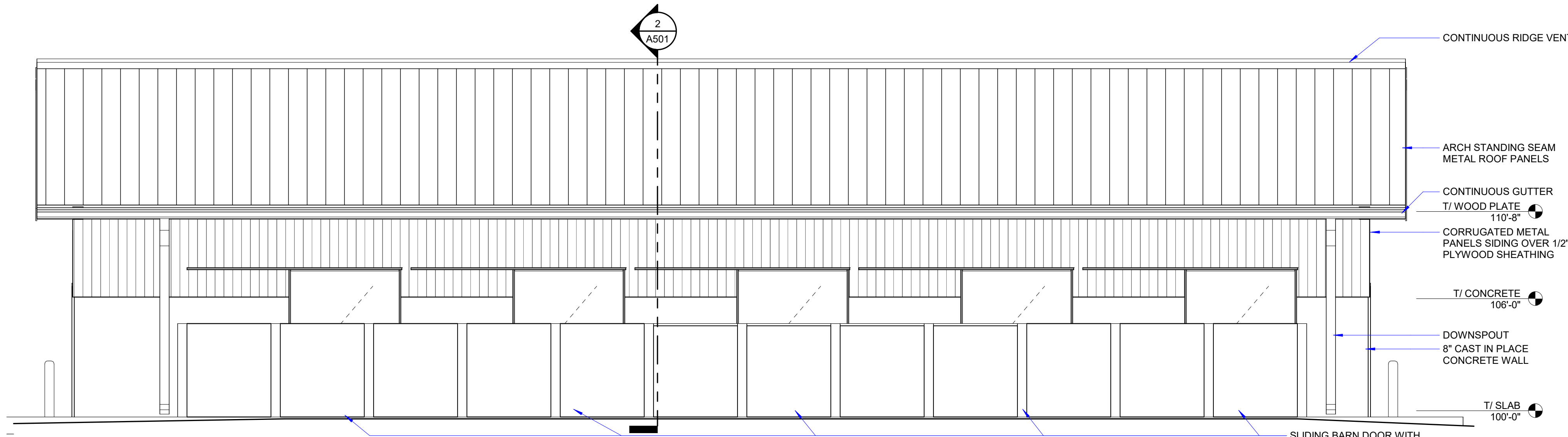
ISSUANCES

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04-09-24	100% CD
04-18-24	BID/PERMIT SET

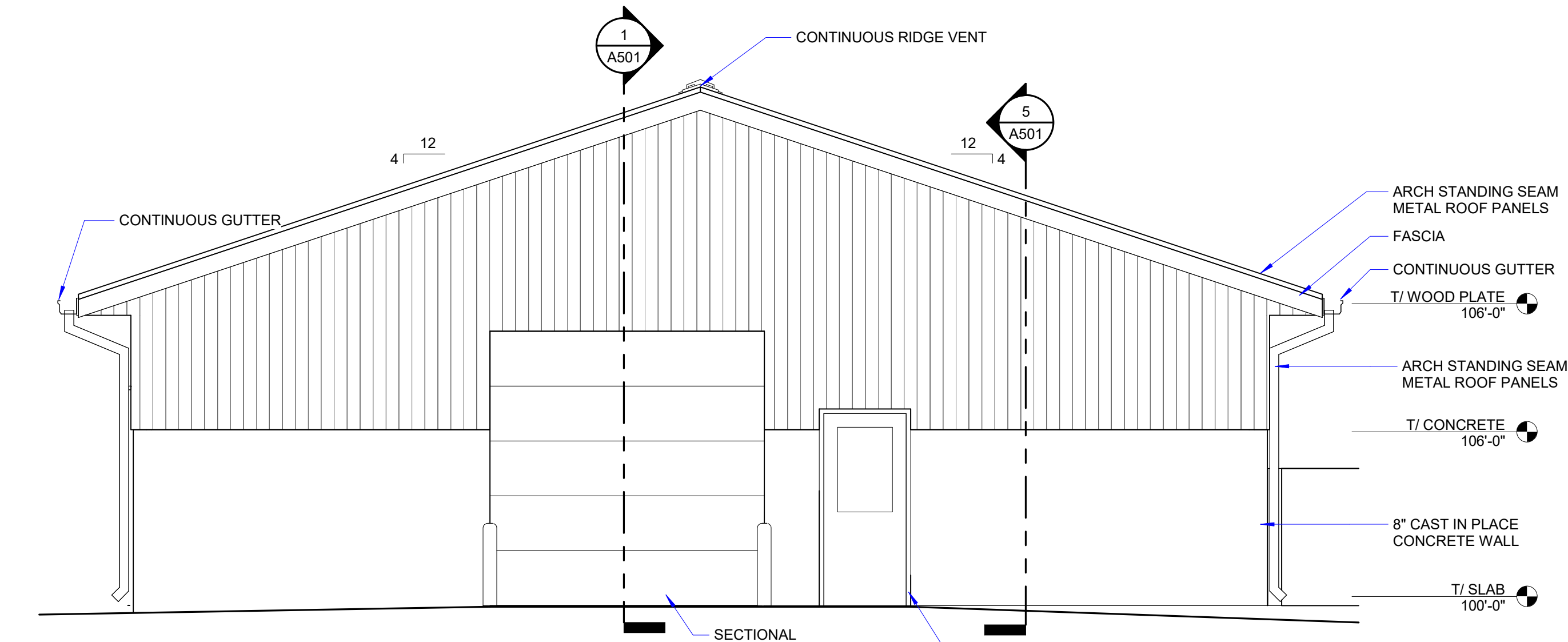
EXTERIOR ELEVATIONS

COMM NO. 2024006.01

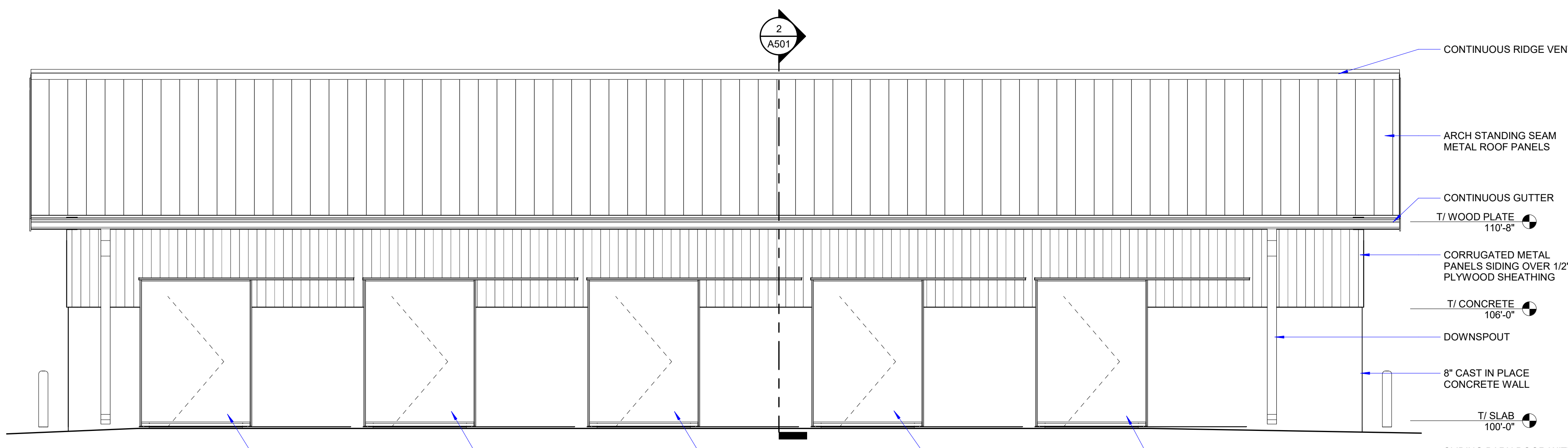
A201



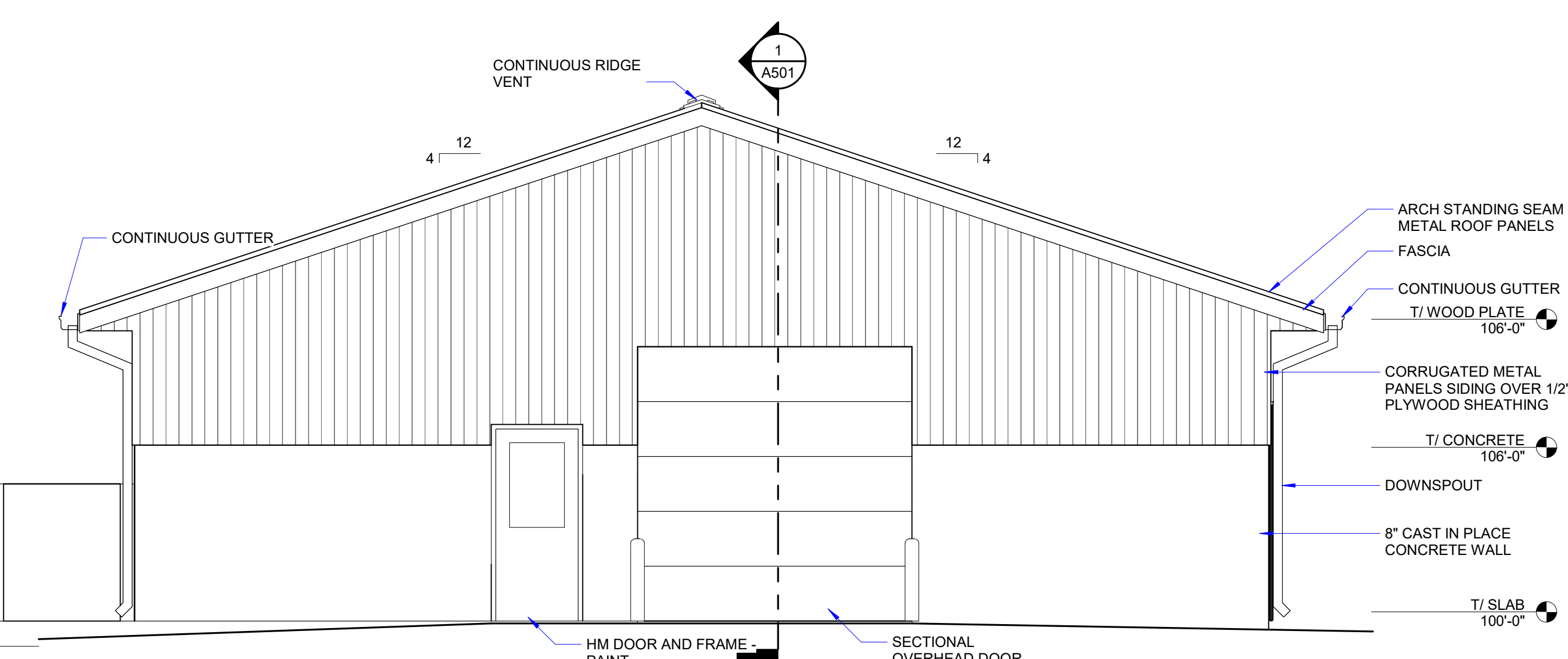
1 BARN NORTH ELEVATION
A201 1/4" = 1'-0"



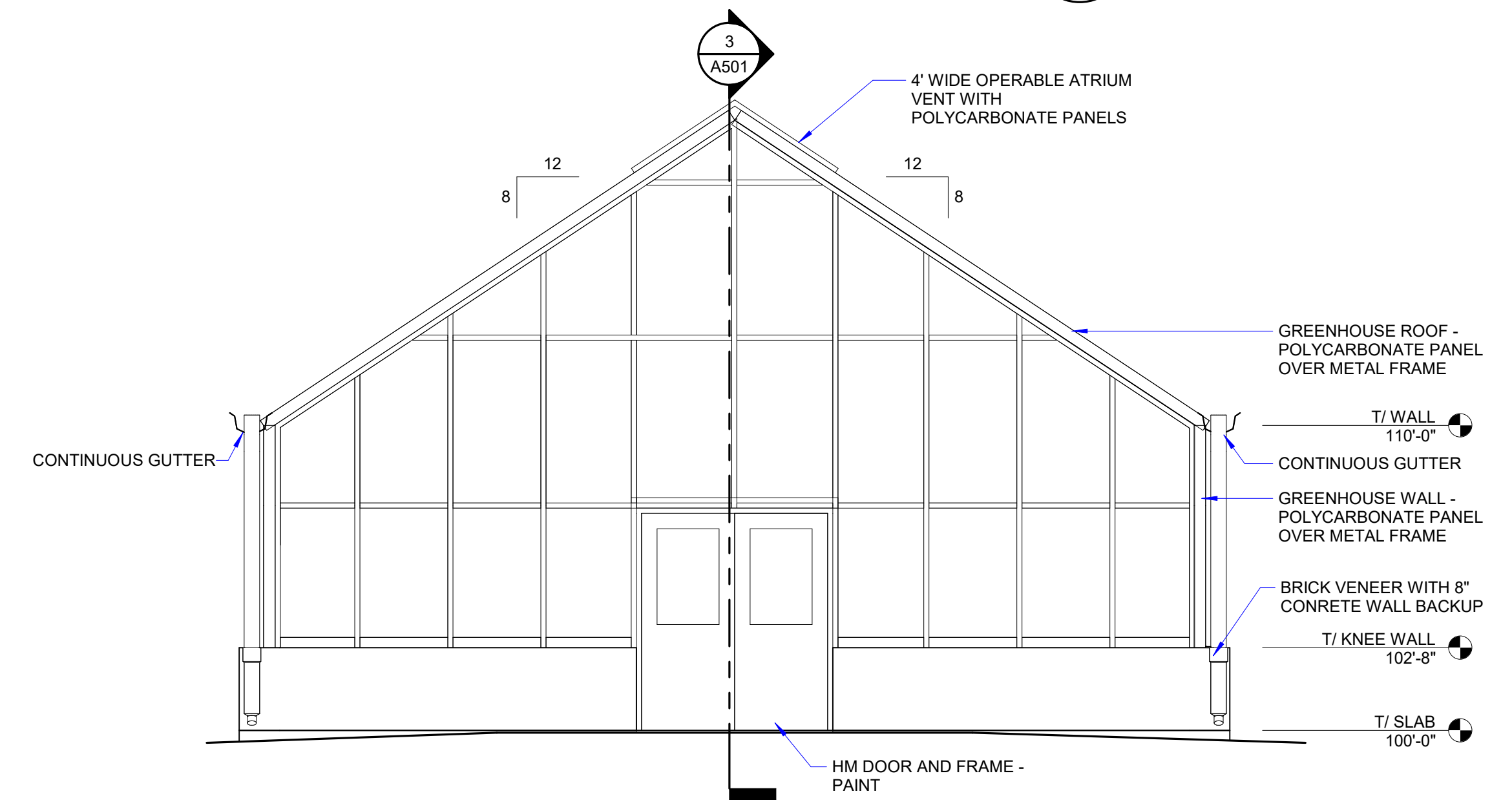
2 BARN EAST ELEVATION
A201 1/4" = 1'-0"



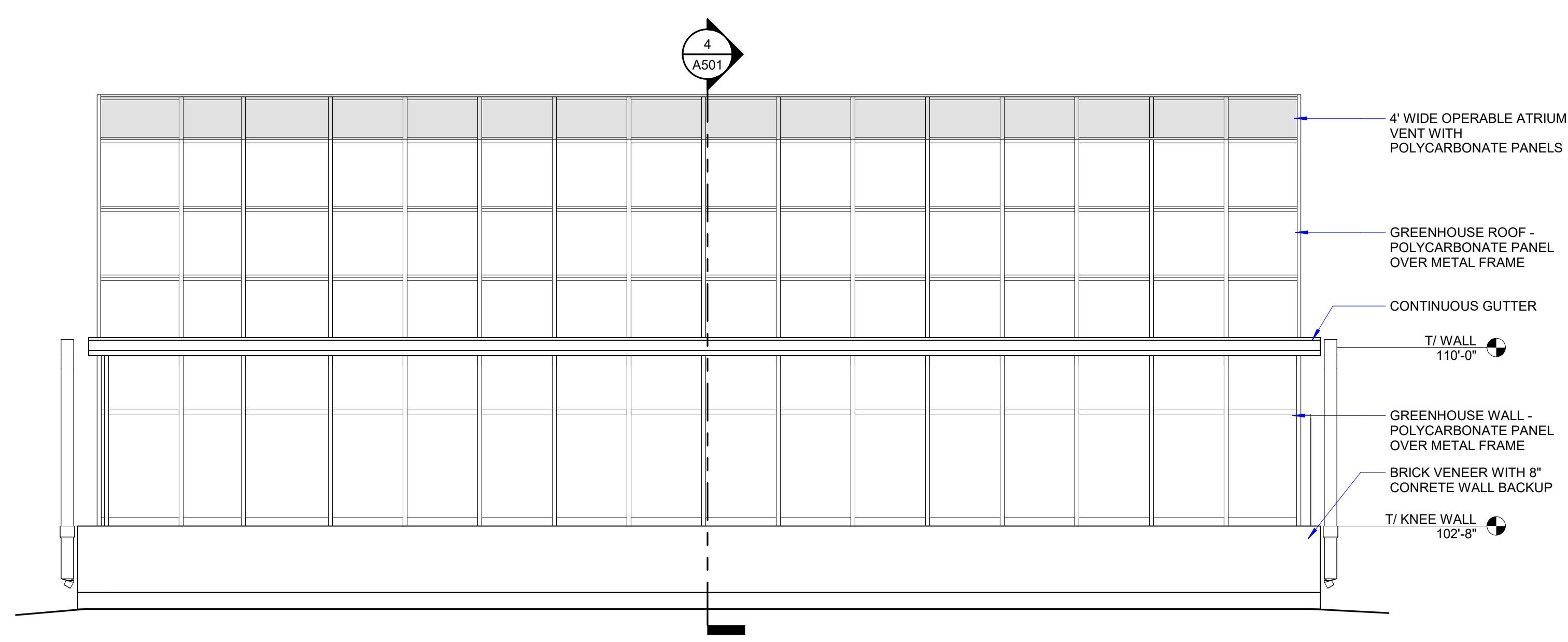
3 BARN SOUTH ELEVATION
A201 1/4" = 1'-0"



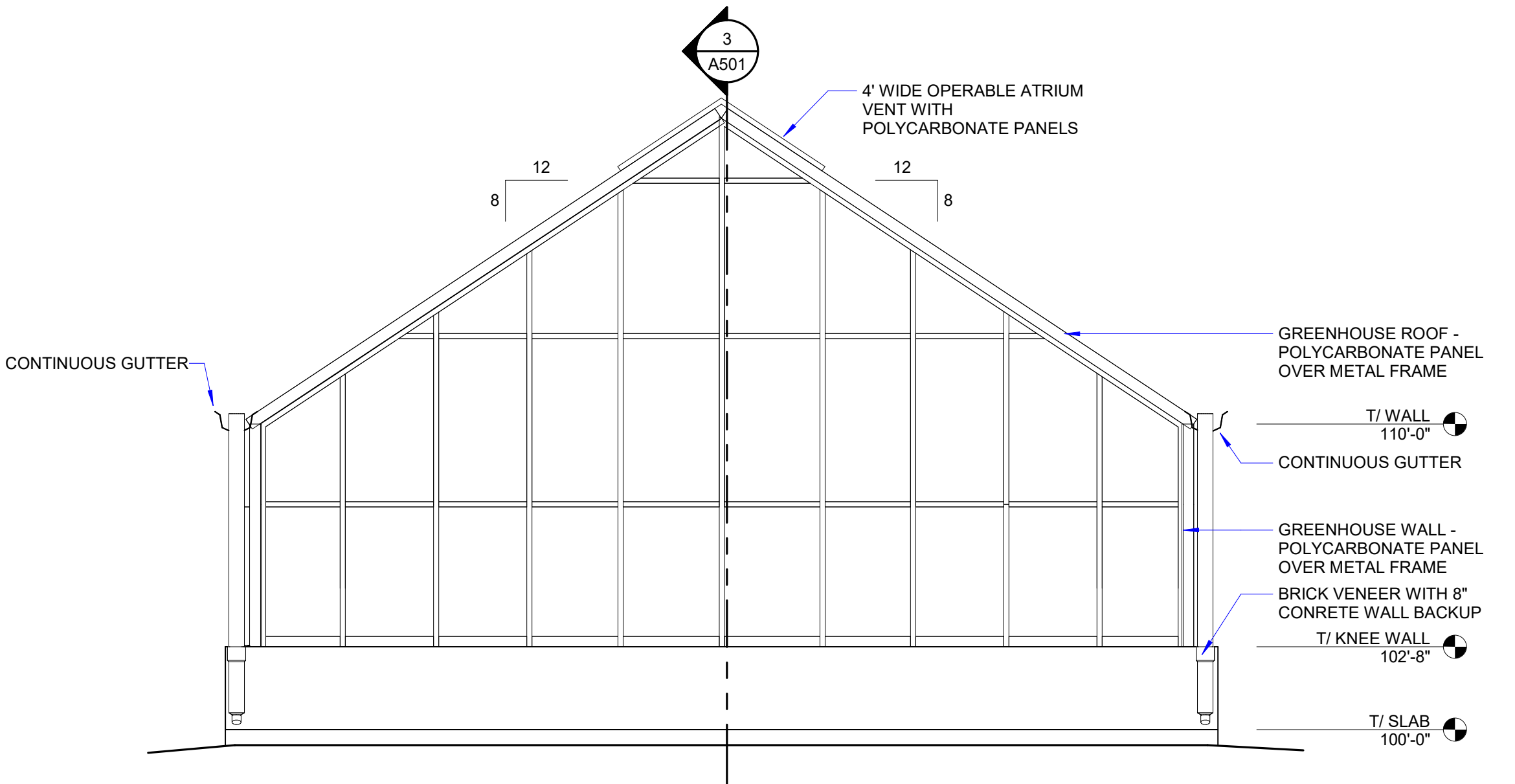
4 BARN WEST ELEVATION
A201 1/4" = 1'-0"



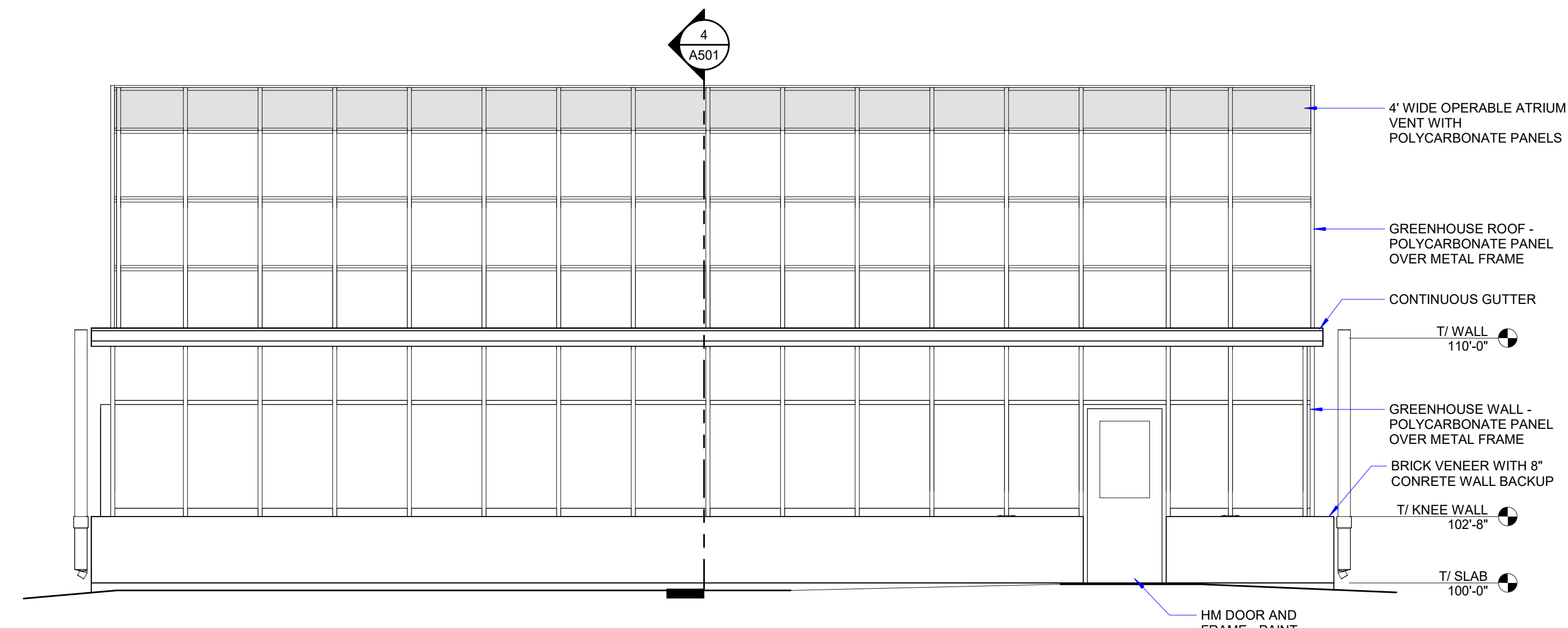
5 GREENHOUSE NORTH ELEVATION
A201 1/4" = 1'-0"



6 GREENHOUSE EAST ELEVATION
A201 1/4" = 1'-0"

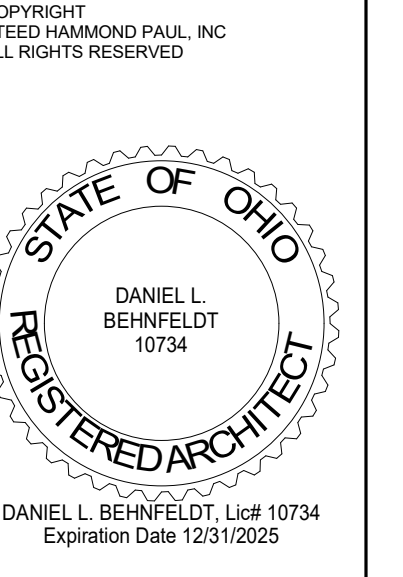


7 GREENHOUSE SOUTH ELEVATION
A201 1/4" = 1'-0"



8 GREENHOUSE WEST ELEVATION
A201 1/4" = 1'-0"

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GENERAL NOTES - REFLECTED CEILING PLAN

A. ALL EXPOSED CEILING STRUCTURE, DECK, DUCTWORK, CONDUIT, HANGERS, ETC. TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.

B. PAINT ALL GYP BD SOFFITS PT-1 UNLESS NOTED OTHERWISE.

C. ALL EXPOSED INTERIOR STEEL (LINTELS, ETC) TO BE PAINTED TO MATCH ADJACENT WALL SURFACE UNLESS NOTED OTHERWISE. ALL EXTERIOR STEEL (LINTELS, ETC) TO BE PAINTED TO MATCH FIRST MASONRY COURSE ABOVE LINTEL UNLESS NOTED OTHERWISE.

KEY NOTES - REFLECTED CEILING PLANS

C1 1/2" PLYWOOD CEILING OVER AIR BARRIER ATTACHED TO THE UNDERSIDE OF THE ROOF TRUSSES - PAINT

C2 CHICKEN WIRE ATTACHED TO THE UNDERSIDE OF THE ROOF TRUSSES

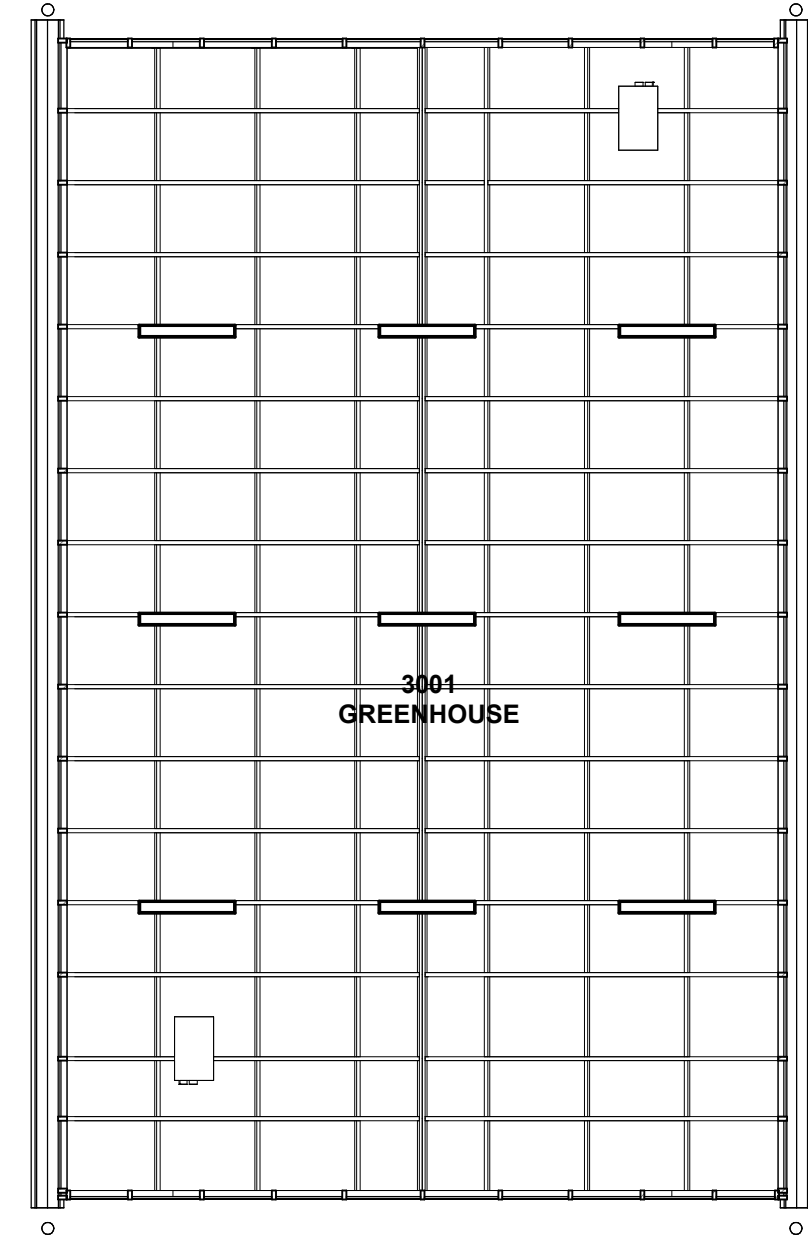
C3 EXISTING LIGHT WELL SURROUNDS TO REMAIN BOTTOM OF CEILING GRID FLUSH WITH BOTTOM OF CEILING WELL

SHP

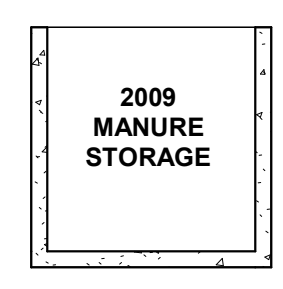
312 PLUM STREET, SUITE 700
CINCINNATI, OH 45202 - 513.981.2112

JEFFERSON TOWNSHIP HIGH SCHOOL
AGRICULTURE EDUCATION FACILITY
2701 SOUTH UNION ROAD, DAYTON OH 45417

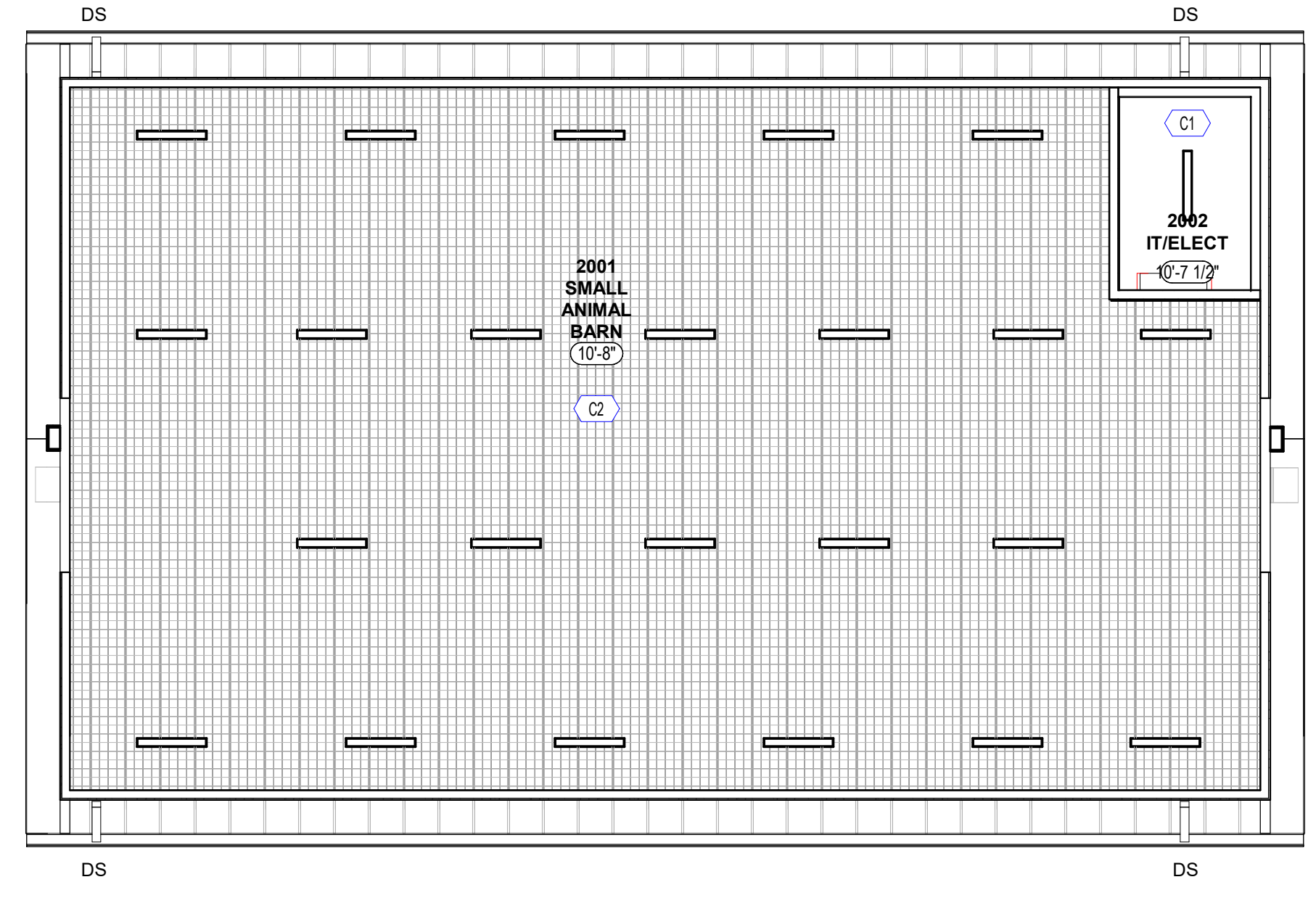
JEFFERSON TOWNSHIP LOCAL SCHOOL DISTRICT
2625 SOUTH UNION ROAD, DAYTON OH 45417



1 FIRST FLOOR REFLECTED CEILING PLAN - AG ED GREENHOUSE
A401 1/8" = 1'-0"



2 FIRST FLOOR REFLECTED CEILING PLAN - AG ED STORAGE
A401 1/8" = 1'-0"



3 FIRST FLOOR REFLECTED CEILING PLAN - AG ED BARN
A401 1/8" = 1'-0"



4 FIRST FLOOR REFLECTED CEILING PLAN - AG ED SHOP
A401 1/8" = 1'-0"

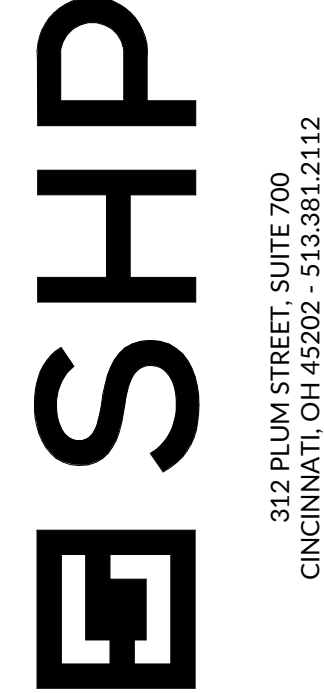
ISSUANCES

NO.	DATE	DESCRIPTION
03-01-24	DESIGN DEVELOPMENT	
04-09-24	100% CD	
A 04-18-24	BID/PERMIT SET	

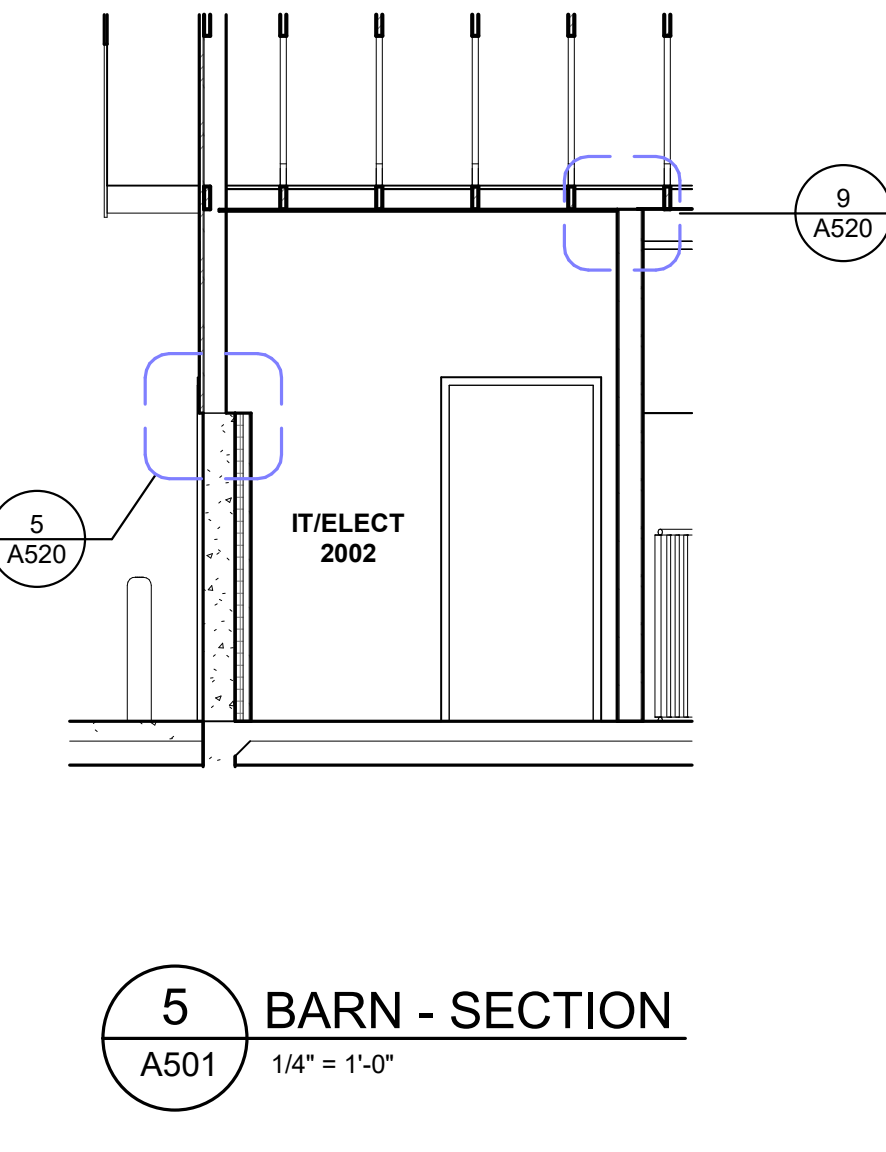
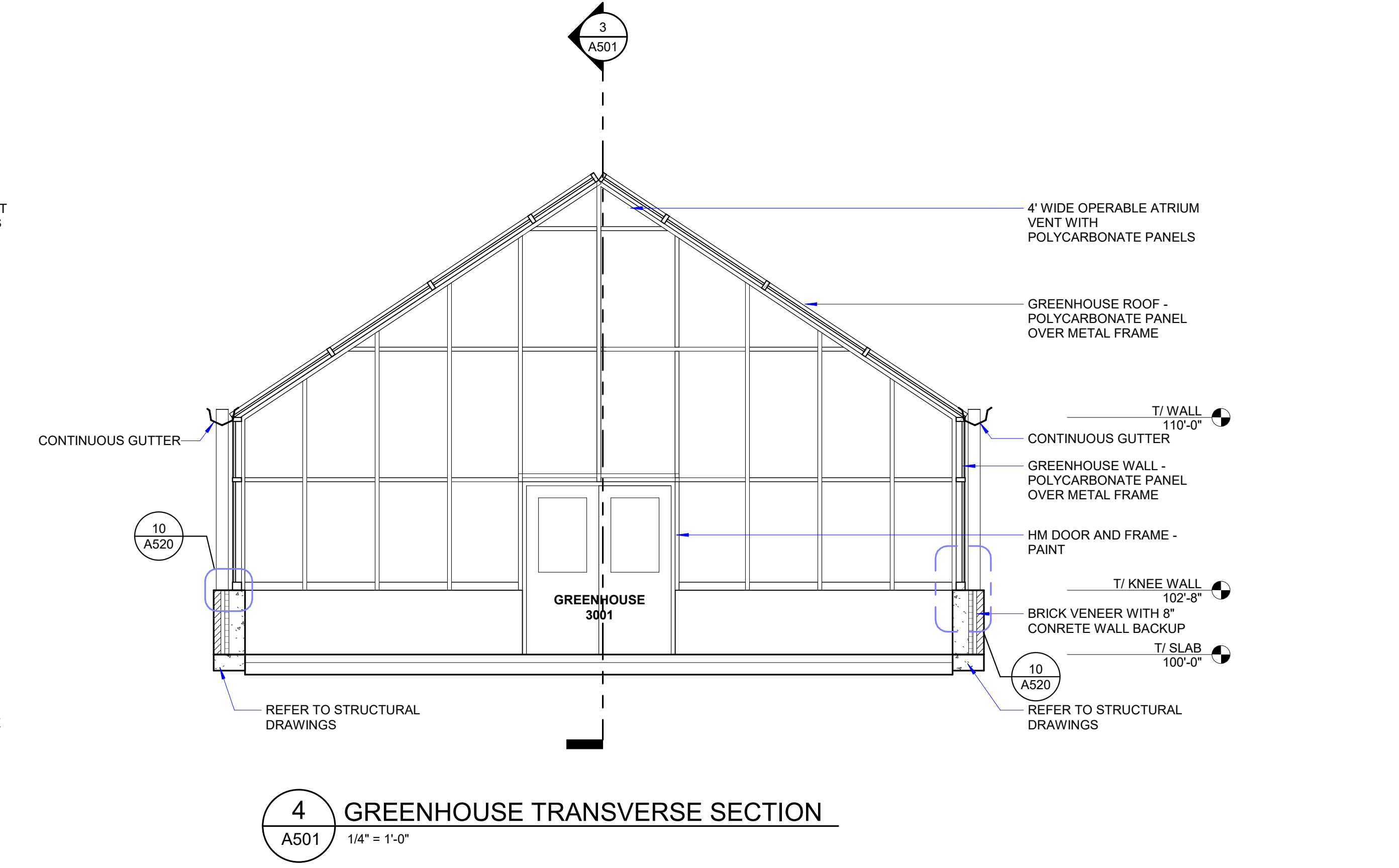
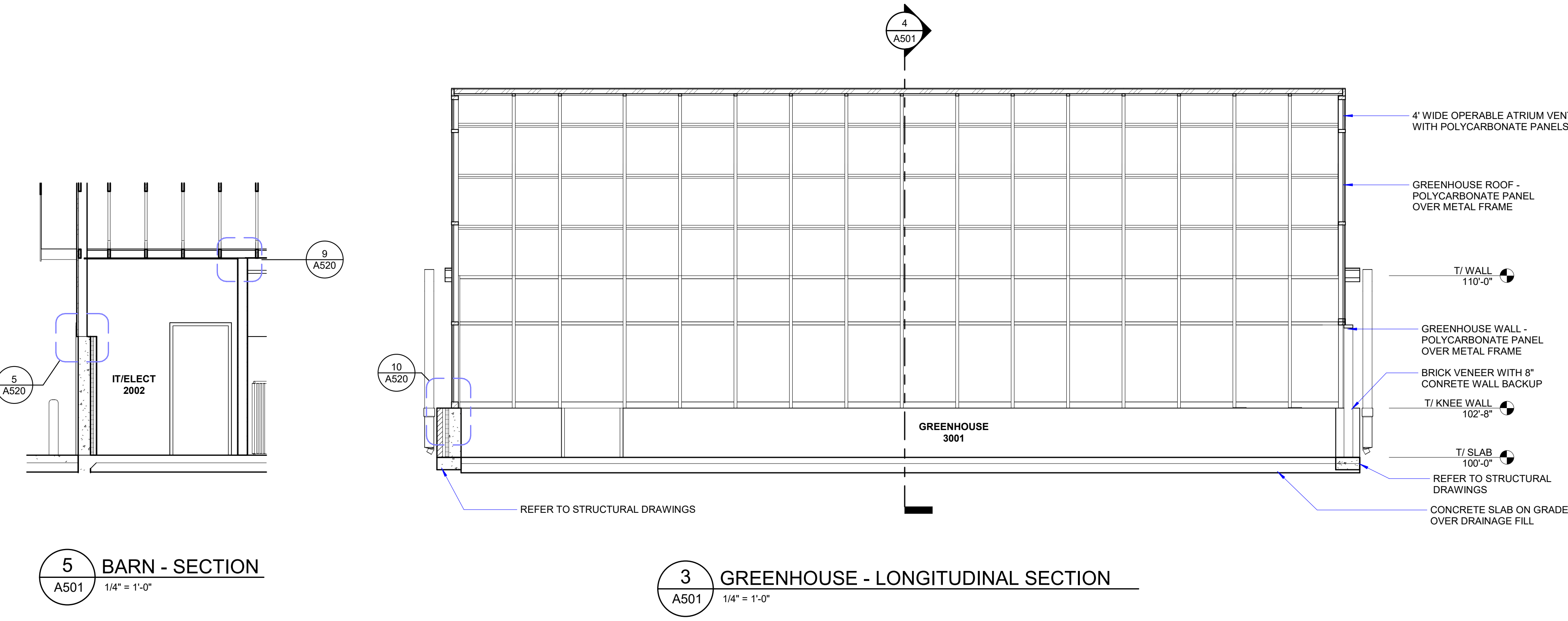
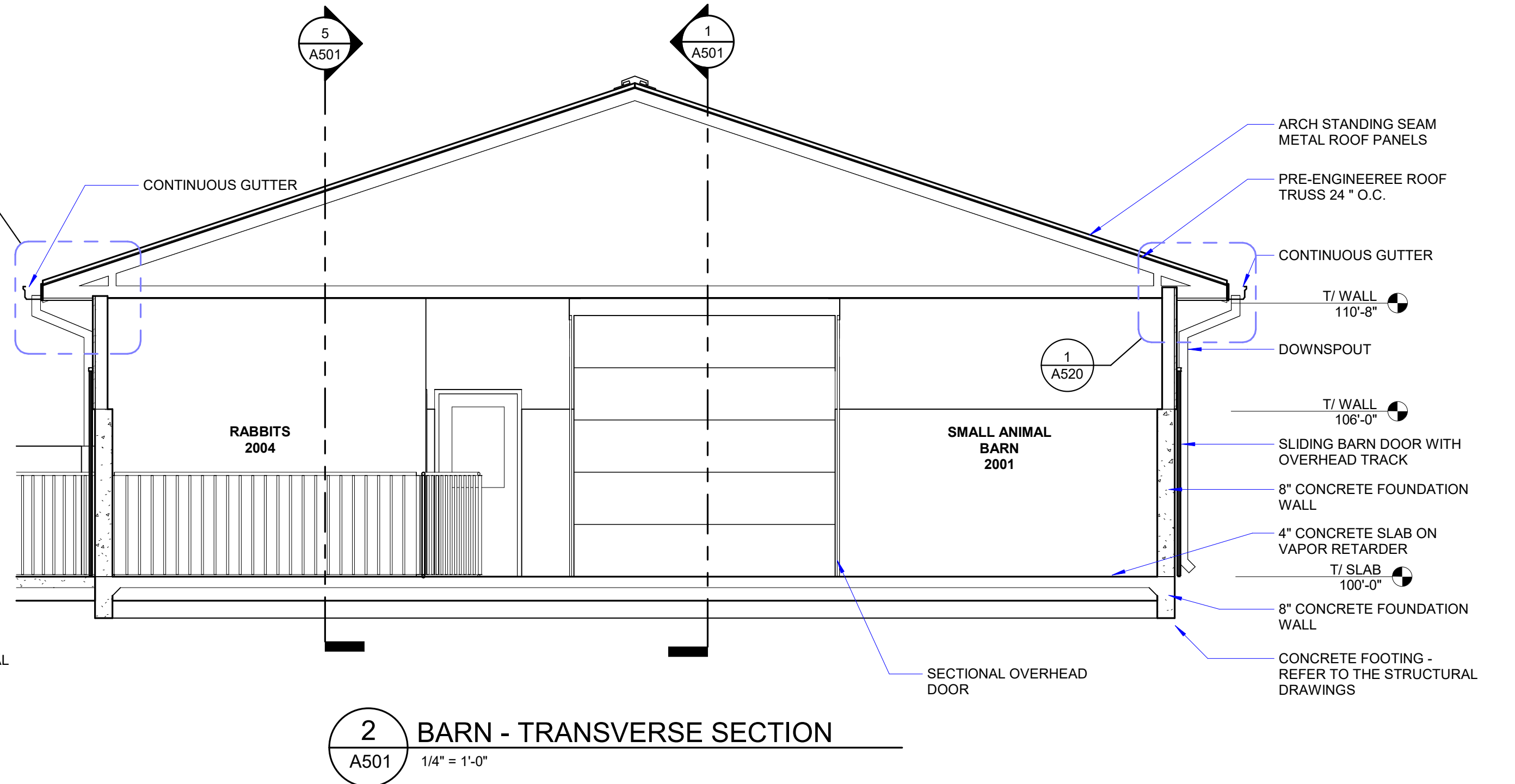
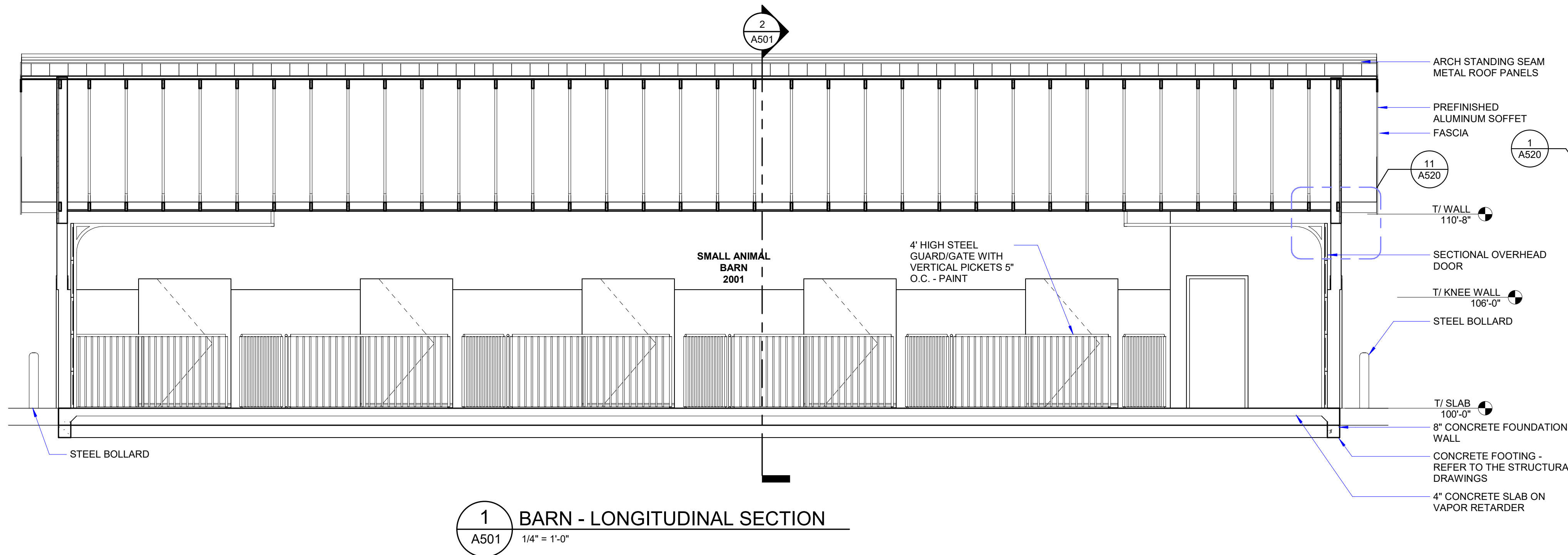
FIRST FLOOR
RCP - AG ED
SHOP

COMM NO. 2024006.01

A401



JEFFERSON TOWNSHIP HIGH SCHOOL
AGRICULTURE EDUCATION FACILITY
2701 SOUTH UNION ROAD, DAYTON OH 45417
JEFFERSON TOWNSHIP LOCAL SCHOOL DISTRICT
2625 SOUTH UNION ROAD, DAYTON OH 45417



ISSUANCES	
03-01-24	DESIGN DEVELOPMENT
04-09-24	10% CD
04-18-24	BID/PERMIT SET

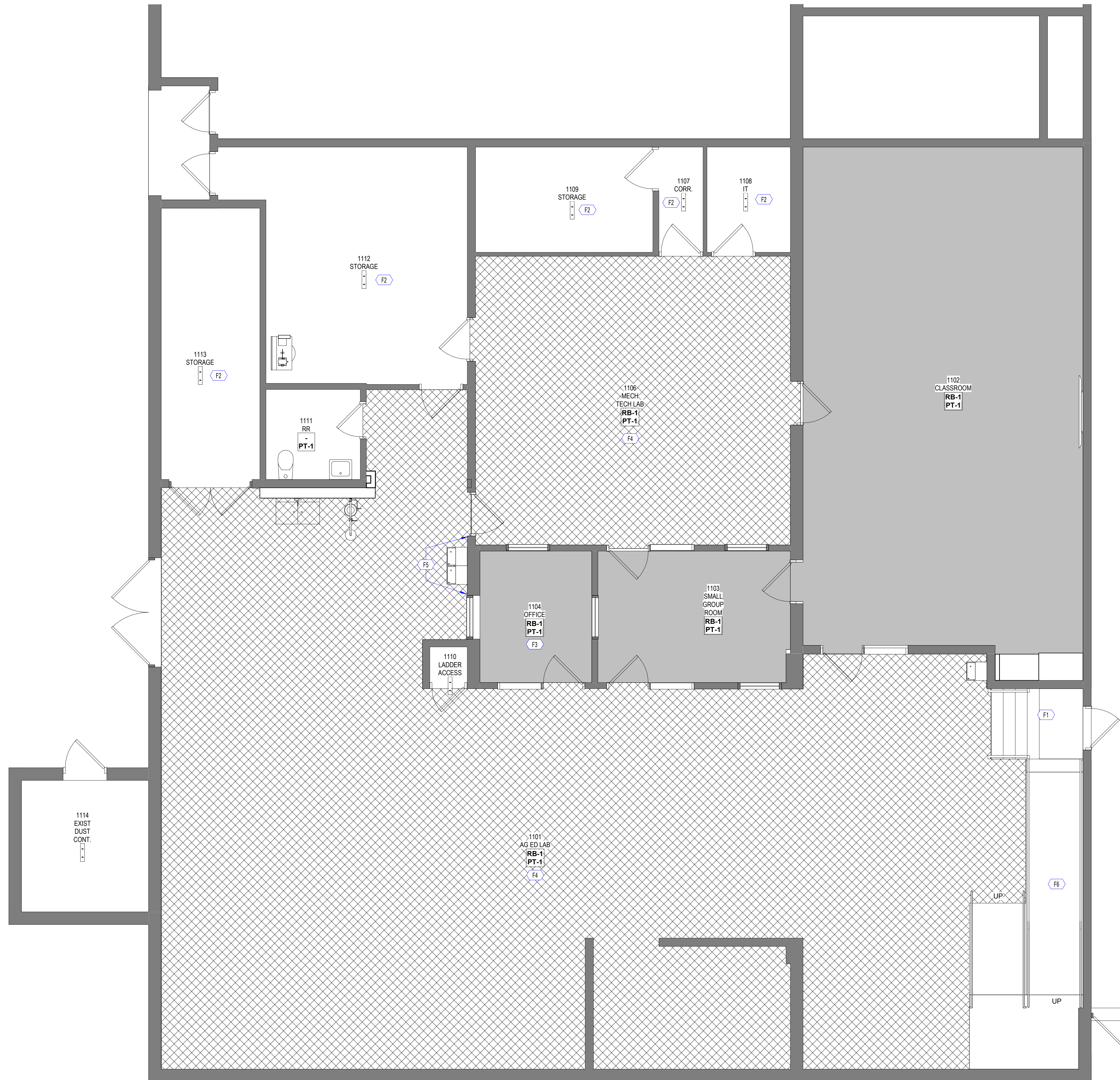
BUILDING SECTIONS

COMM NO. 2024006.01

A501

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1/4" REFERENCE LINE



1
A701 FIRST FLOOR FINISH PLAN - AG ED SHOP
1/4" = 1'-0"

- GENERAL NOTES - FINISH PLAN**
- A. CONTRACTOR MUST OBTAIN COLOR PRINTS OF ALL FLOOR PATTERNS FROM ARCHITECT BEFORE INSTALLING MATERIAL.
 - B. EXTEND FLOORING MATERIAL UNDER OPEN CASEWORK.
 - C. WHEN MATERIAL TRANSITIONS OCCUR AT A DOORWAY, TRANSITION TO OCCUR AT THE CENTERLINE OF THE CLOSED DOOR.
 - D. SEE STRUCTURAL FOUNDATION AND PLUMBING PLANS FOR DRAIN AND SLOPE LOCATIONS.
 - E. IN ROOMS WITH TRAFFIC COATING AND MECHANICAL PADS, INSTALL TRAFFIC COATING ON THE MAIN ROOM FLOOR ONLY, NOT MECHANICAL PADS. MECHANICAL PAD PERIMETER TO RECEIVE TRAFFIC COATING BASE ON ALL EXPOSED SIDES.
- GENERAL NOTES - PAINTING**
- A. PAINT CONTRACTOR TO HAVE PRE-PAINT WALKTHROUGH WITH DESIGNER PRIOR TO PAINTING.
 - B. ROOMS WHERE THE PAINT FINISH IS LISTED AS "X" SHOULD NOT BE PAINTED.
 - C. DO NOT PAINT BRICK.
 - D. SEE REFLECTED CEILING PLANS FOR CEILING, SOFFIT, AND STRUCTURE PAINT COLORS.
 - E. ALL INTERIOR, EXPOSED COLUMNS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.
 - F. STEEL STAIR ASSEMBLY AND GUARDRAIL TO BE PAINTED PT-XXXX AT ALL STAIRS UNLESS NOTED OTHERWISE.
 - G. PAINT WINDOW JAMBS TO MATCH ADJACENT WALL COLOR - WRAP ACCENT PAINT.
 - H. PAINT RETURN AIR WALL GRILLES AND ACCESS PANELS TO MATCH ADJACENT WALL COLOR.
 - J. PAINT ALL DOOR FRAMES TO MATCH ADJACENT WALL COLOR.
- KEY NOTES - FINISH PLANS**
- F1 EXISTING FINISH ON STAIRS AND LANDING TO REMAIN
 - F2 NO NEW FINISHES, THIS ROOM
 - F3 ALTERNATE #1: FINISH FLOOR WITH SEALED CONCRETE IN LIEU OF VSF-1
 - F4 ALTERNATE #2: FINISH FLOOR WITH SEALED CONCRETE IN LIEU OF RES-1
 - F5 EXISTING PORTION OF GLAZED BLOCK WALL TO REMAIN UNPAINTED
 - F6 EXPOSED CONCRETE FINISH ON NEW RAMP

KEY TO BASE FINISH TAG

ROOM NUMBER	LOI	ROOM NAME
BASE FINISH	Base Finish	
WALL FINISH	Wall Finish	

FLOOR PATTERN LEGEND

[Cross-hatch pattern]	RES-1	[Solid grey]	VSF-1
-----------------------	-------	--------------	-------

FINISH LISTING - BASE

NO BASE	BASE	NAME
RB-1	RUBBER BASE	JOHNSONITE TRADITIONAL 4" BASE; COLOR: 29 MOON ROCK

FINISH LISTING - FLOORING

RES-1	FLOORING	SEE SPECIFICATIONS
VSF-1	VINYL SHEET FLOORING	ARIA 3.0, COLOR: DIORITE 0872

FINISH LISTING - PAINT

PT-1	TO MATCH BENJAMIN MOORE GC-117 SIMPLY WHITE
------	---------------------------------------------

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ISSUANCES

03-01-24	DESIGN DEVELOPMENT
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A 04-18-24	BID/PERMIT SET

FIRST FLOOR FINISH PLAN - AG ED SHOP

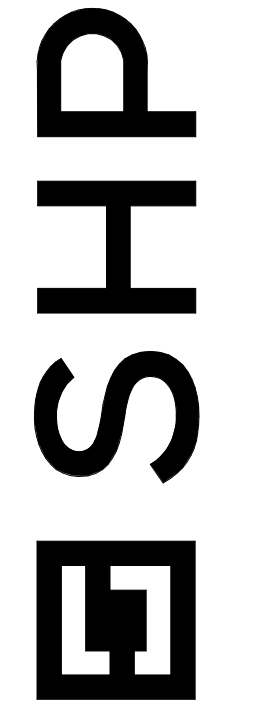
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GENERAL NOTES - FURNITURE
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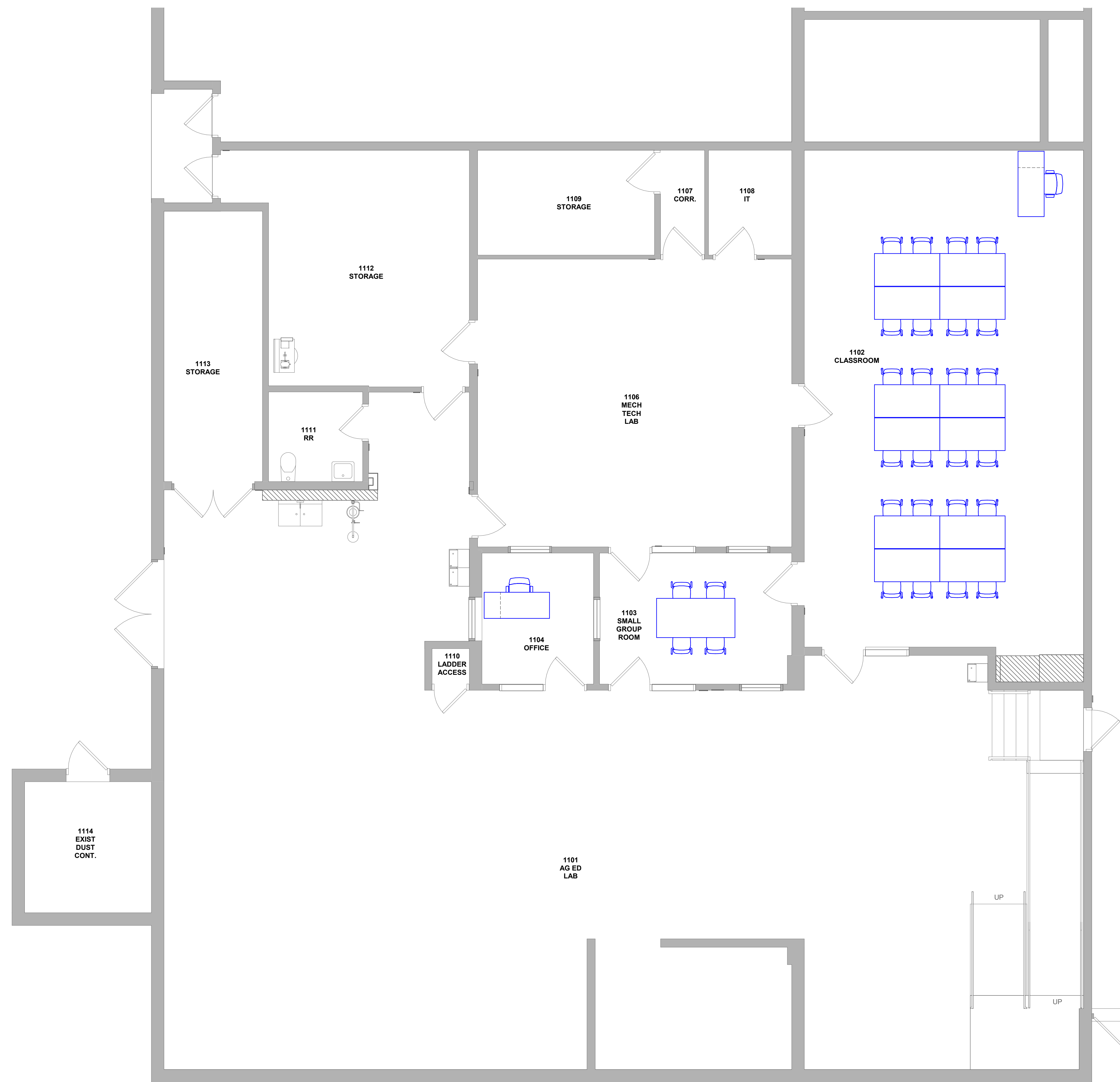
ISSUANCES

No.	Date	Description
	03-01-24	DESIGN DEVELOPMENT
A	04-19-24	BID PERMIT SET

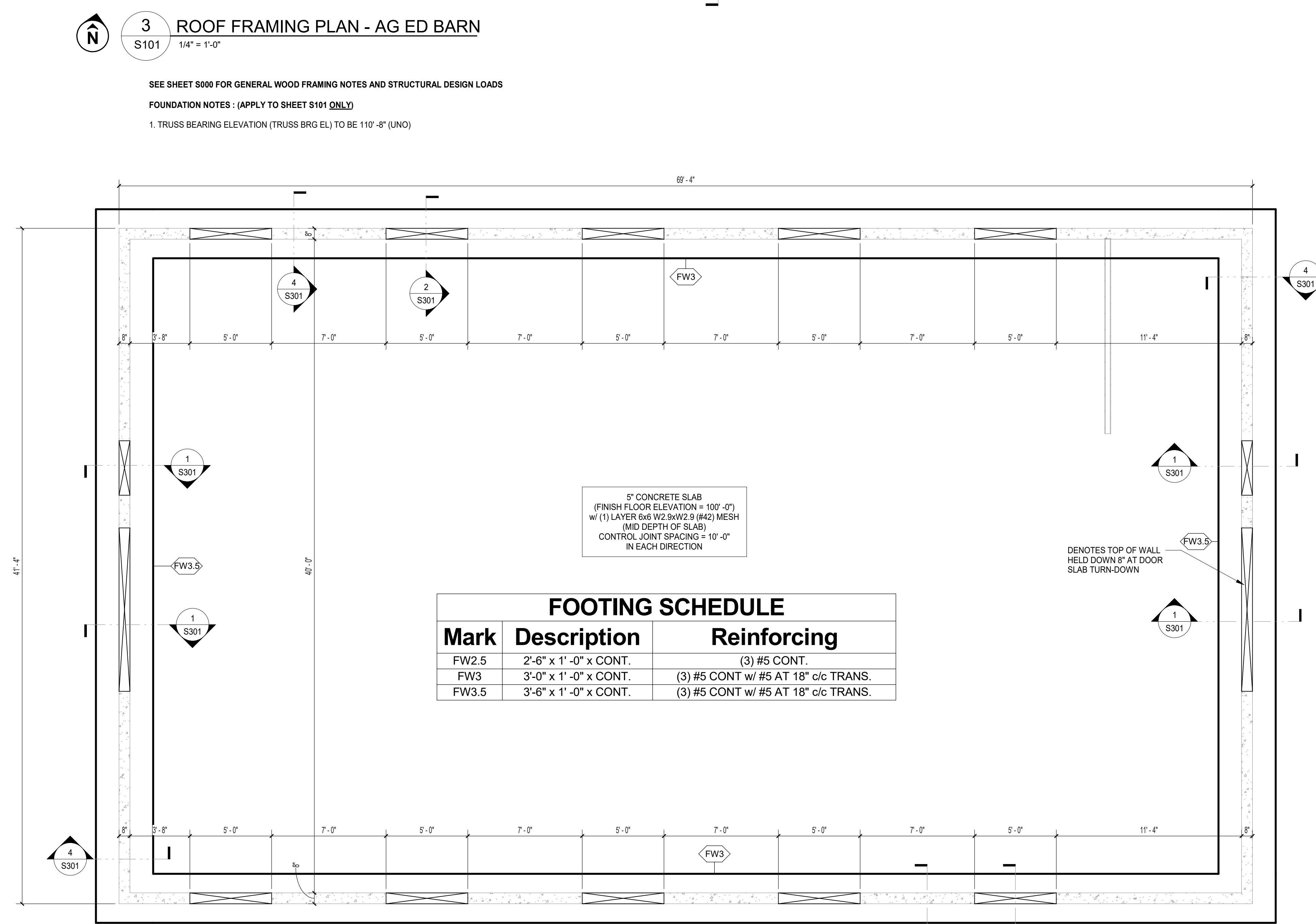
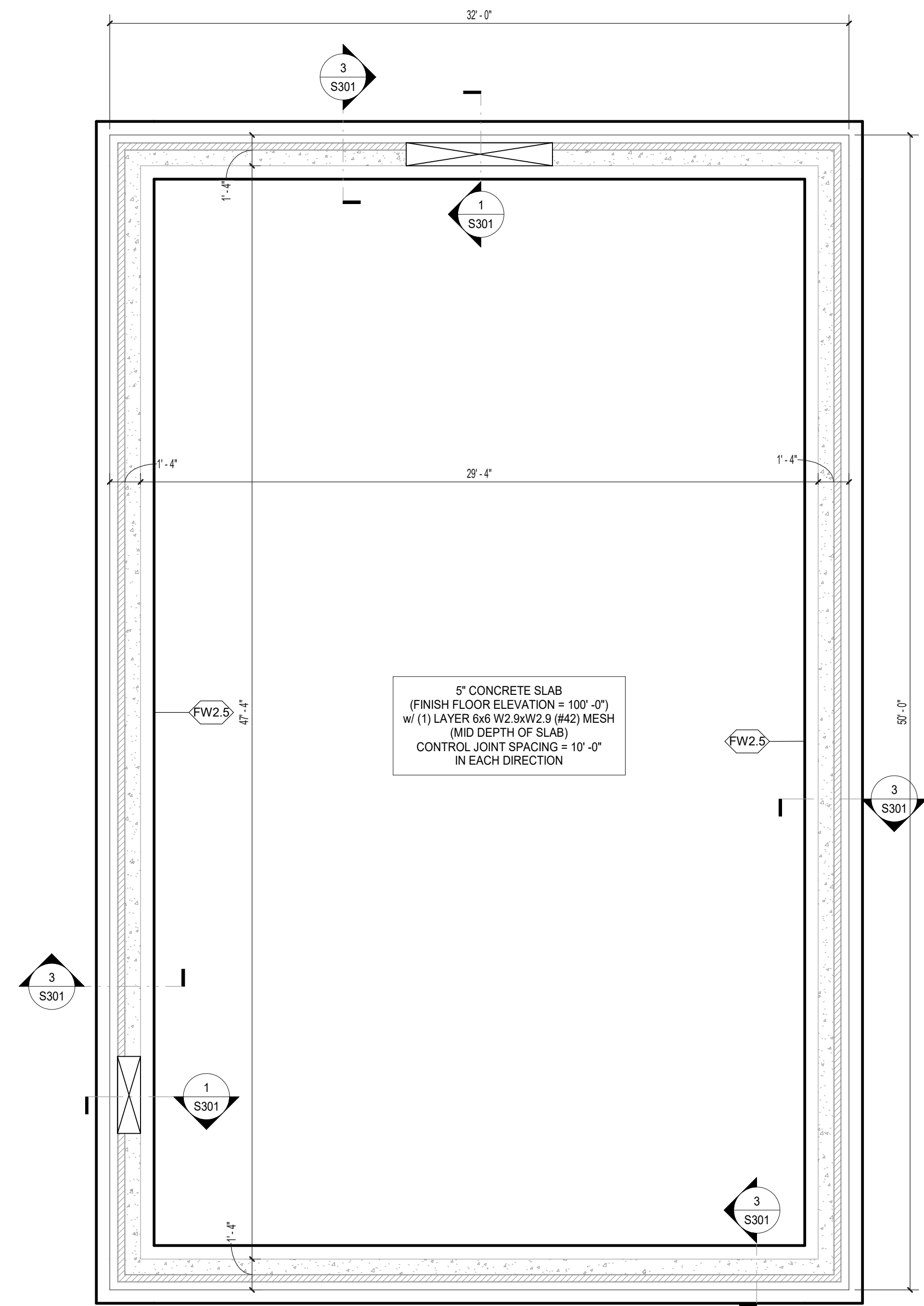
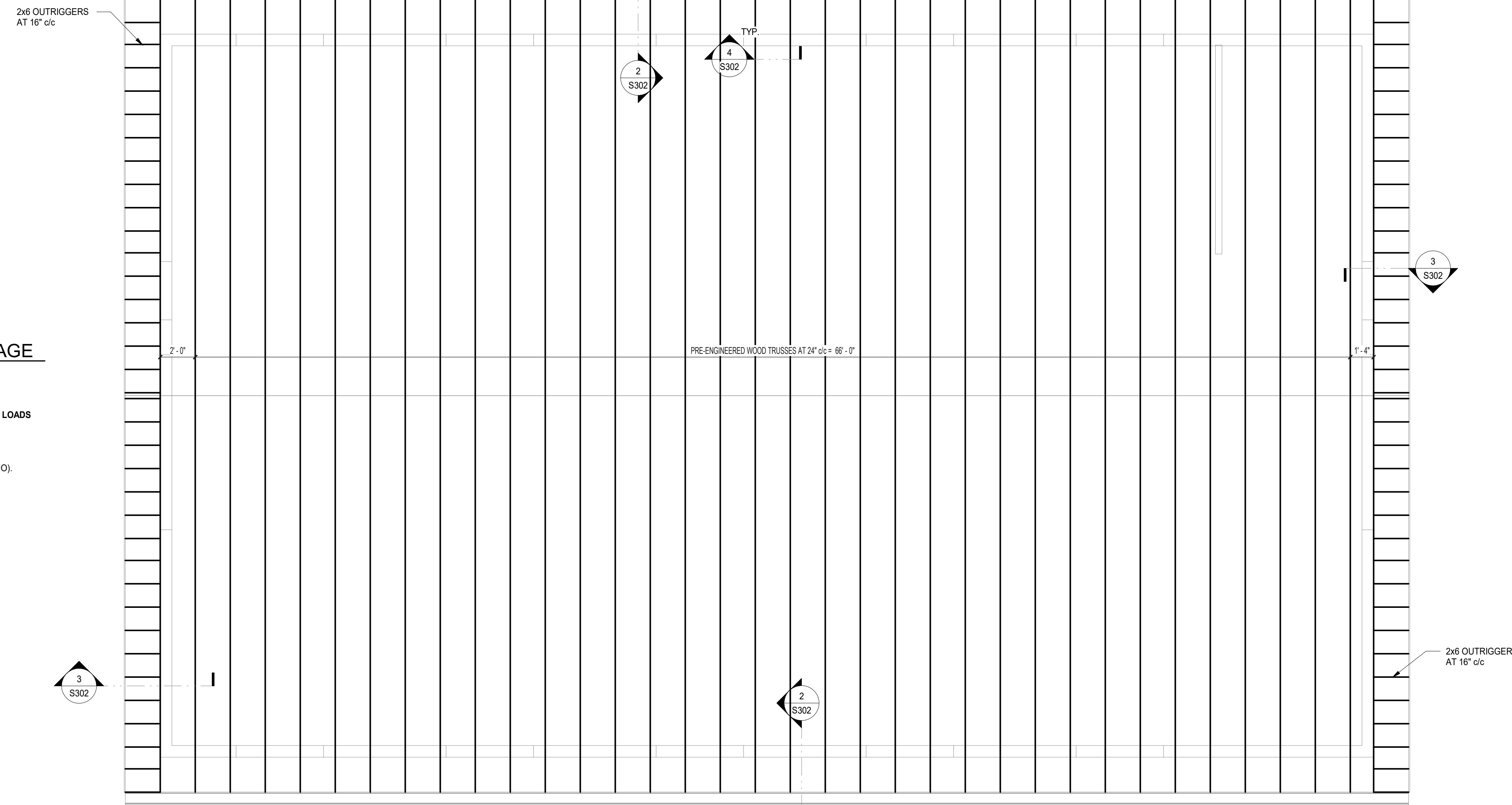
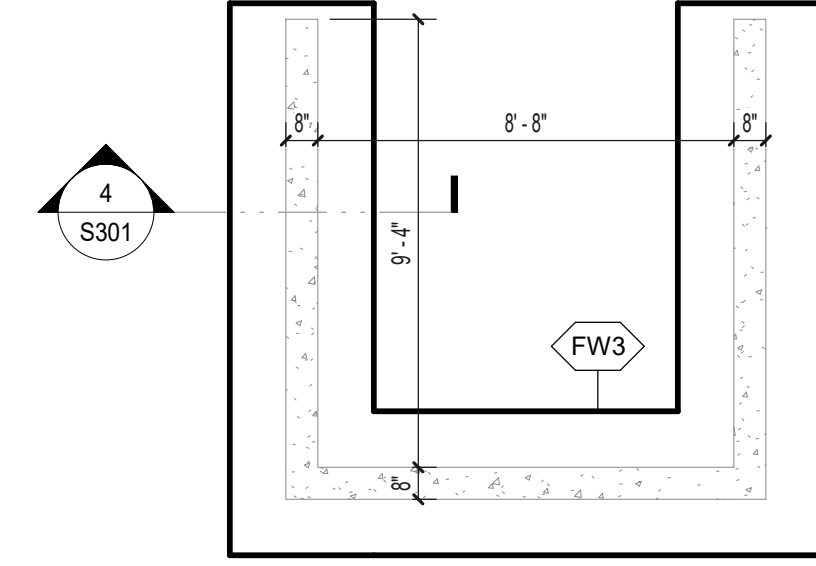
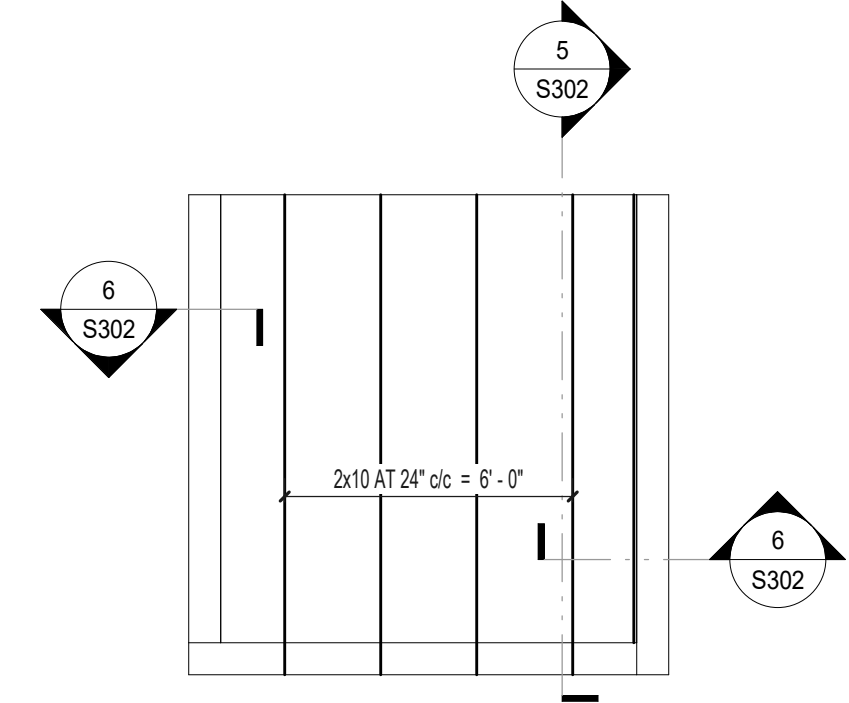
FIRST FLOOR
FURNITURE
PLAN - AG ED
SHOP

COMM NO. 2024006.01

F101



1 FIRST FLOOR FURNITURE PLAN - AG ED SHOP
F101 1/4" = 1'-0"



5 ROOF FRAMING PLAN - AG ED STORAGE
S101
1/4" = 1'-0"

4 FOUNDATION PLAN - AG ED STORAGE
S101
1/4" = 1'-0"

3 ROOF FRAMING PLAN - AG ED BARN
S101
1/4" = 1'-0"

2 FOUNDATION PLAN - AG ED GREENHOUSE
S101
1/4" = 1'-0"

1 FOUNDATION PLAN - AG ED BARN
S101
1/4" = 1'-0"

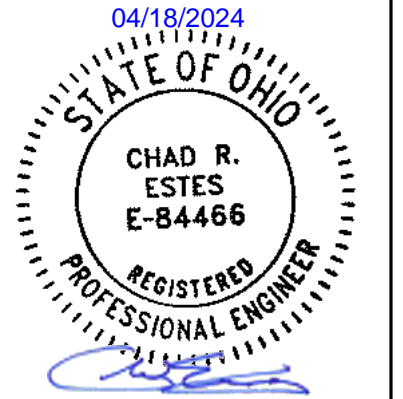
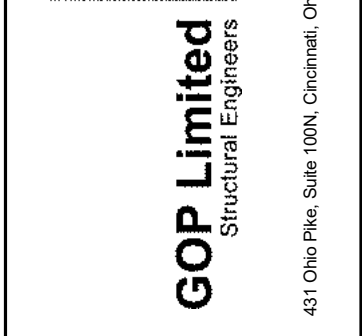
SEE SHEET S000 FOR GENERAL FOUNDATION NOTES AND STRUCTURAL DESIGN LOADS
FOUNDATION NOTES : (APPLY TO SHEET S101 ONLY)
 1. TYPICAL EXTERIOR WALL FOOTINGS TO BE FW2 (UNO).
 TYPICAL EXTERIOR BOTTOM OF FOOTING ELEVATION (BIF EL) TO BE 97'-0" (UNO).

SEE SHEET S000 FOR GENERAL WOOD FRAMING NOTES AND STRUCTURAL DESIGN LOADS
FOUNDATION NOTES : (APPLY TO SHEET S101 ONLY)
 1. TRUSS BEARING ELEVATION (TRUSS BRG EL) TO BE 110'-8" (UNO)

SEE SHEET S000 FOR GENERAL FOUNDATION NOTES AND STRUCTURAL DESIGN LOADS
FOUNDATION NOTES : (APPLY TO SHEET S101 ONLY)
 1. FINISHED FLOOR ELEVATION (FIN FLR EL) TO BE 100'-0".
 ALL SLAB ON GRADE ELEVATIONS AND FRAMING ELEVATIONS SHALL BE WORKED FROM THIS ELEVATION.
 2. TYPICAL EXTERIOR BOTTOM OF FOOTING ELEVATION (BIF EL) TO BE 97'-0" (UNO).

SEE SHEET S000 FOR GENERAL FOUNDATION NOTES AND STRUCTURAL DESIGN LOADS
FOUNDATION NOTES : (APPLY TO SHEET S101 ONLY)
 1. FINISHED FLOOR ELEVATION (FIN FLR EL) TO BE 100'-0".
 ALL SLAB ON GRADE ELEVATIONS AND FRAMING ELEVATIONS SHALL BE WORKED FROM THIS ELEVATION.
 2. TYPICAL EXTERIOR WALL FOOTINGS TO BE FW2 (UNO).
 TYPICAL EXTERIOR BOTTOM OF FOOTING ELEVATION (BIF EL) TO BE 97'-0" (UNO).

Mark	Description	Reinforcing
FW2.5	2'-6" x 1'-0" x CONT.	(3) #5 CONT.
FW3	3'-0" x 1'-0" x CONT.	(3) #5 CONT w/ #5 AT 18" c/c TRANS.
FW3.5	3'-6" x 1'-0" x CONT.	(3) #5 CONT w/ #5 AT 18" c/c TRANS.



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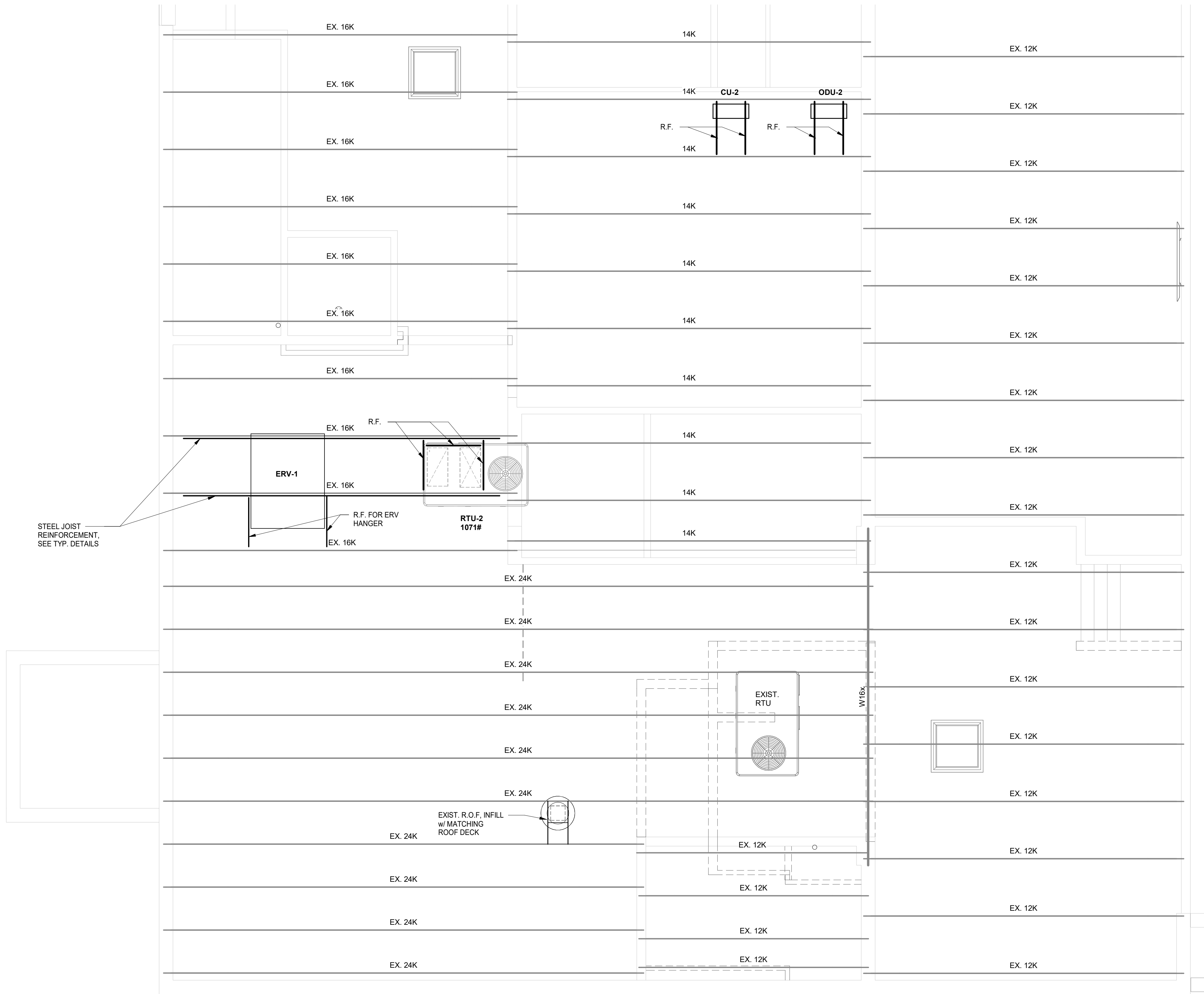
ISSUANCES

No.	Date	Description
1	04-08-24	90% CD
2	04-15-24	BID/PERMIT SET

FOUNDATION AND ROOF FRAMING PLANS

COMM NO. 2024006.01

S101



1 EXISTING ROOF FRAMING PLAN
S102 1/4" = 1'-0"

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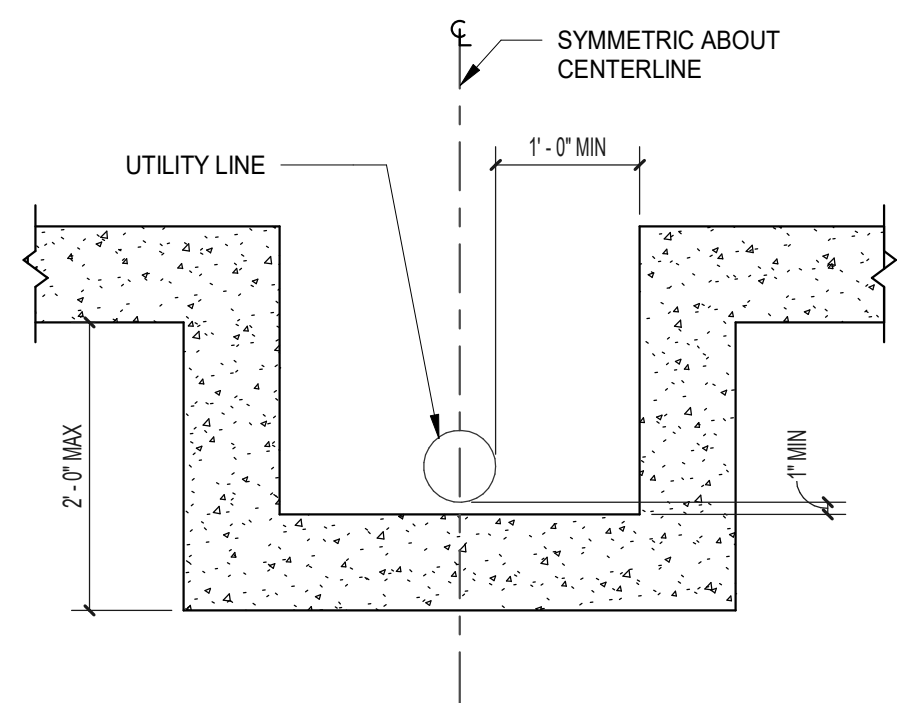
ISSUANCES

1	04-09-24	90% CD
2	04-15-24	BID/PERMIT SET

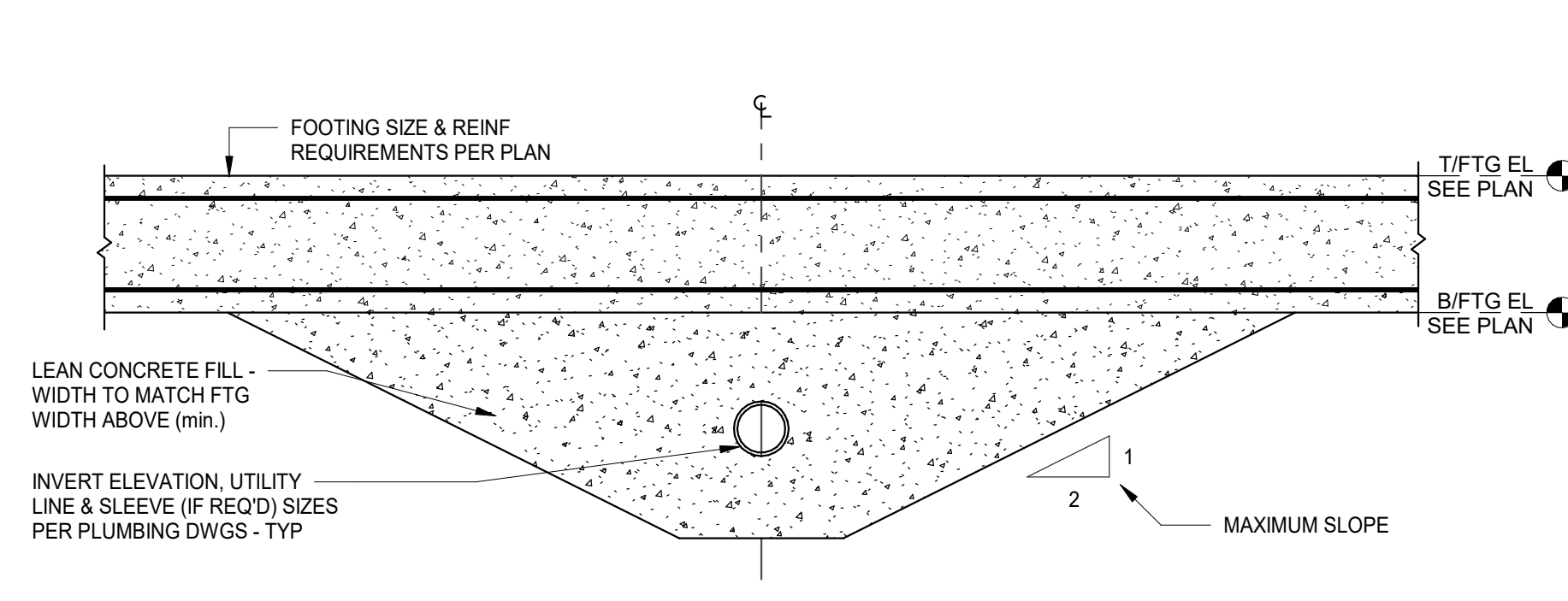
EXISTING ROOF FRAMING PLAN

COMM NO. 2024006.01

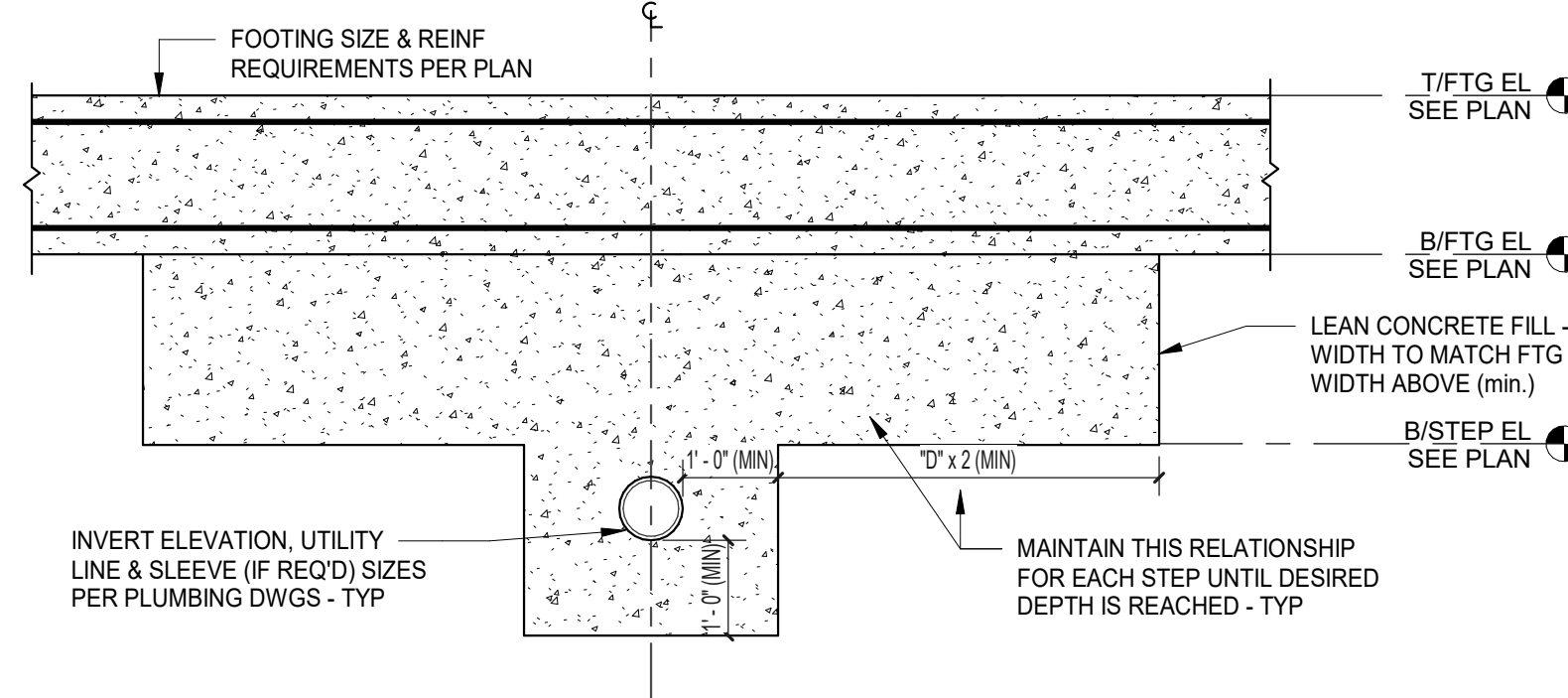
S102



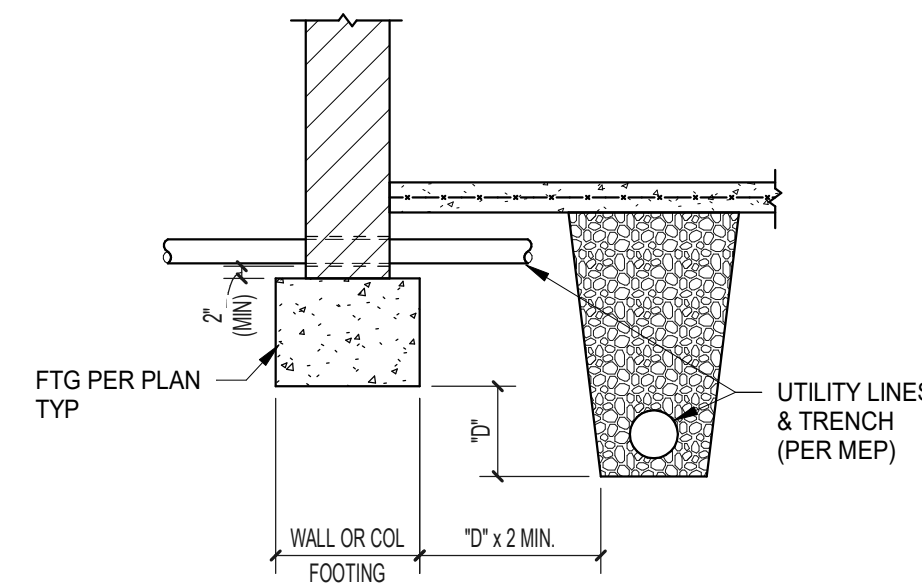
TYPICAL DROP FOOTING AT UTILITY LINE
SCALE : 3/4" = 1' - 0"



STEP FOOTING DETAIL ('Sloped' Lean-crete option)
SCALE : 1/2" = 1' - 0"

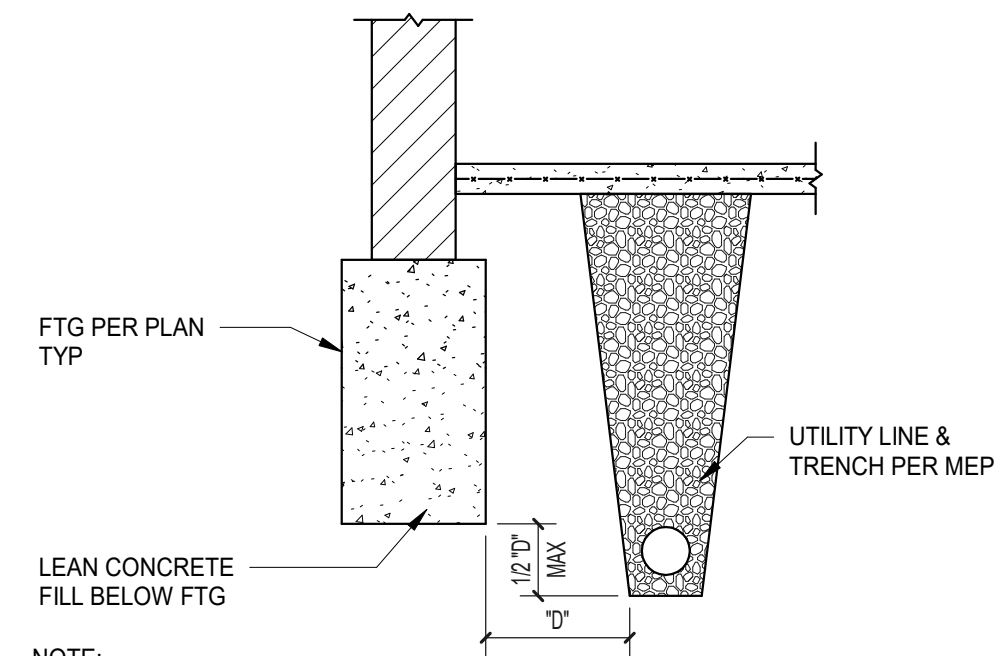


STEP FOOTING DETAIL ('Stepped' Lean-crete option)
SCALE : 1/2" = 1' - 0"



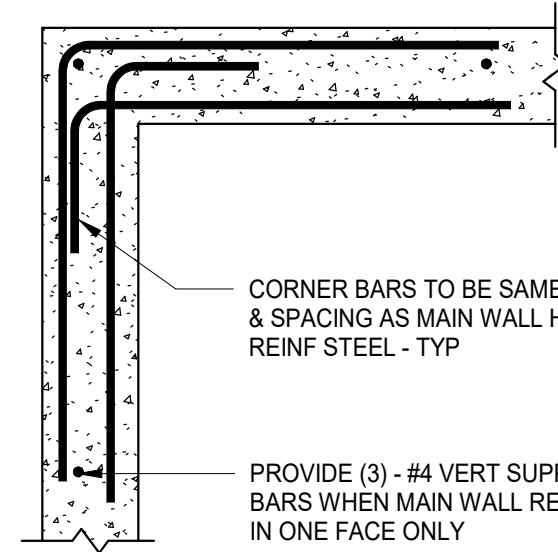
NOTE:
1. CONTRACTOR SHALL COORDINATE FOOTING ELEVATIONS & INVERTS GIVEN ON DRAWINGS w/ MEP DRAWINGS FOR CONFORMITY TO THIS REQUIREMENT. REPORT ANY DISCREPANCIES TO ARCH PRIOR TO POURING FOOTINGS.
2. WHEN PLUMBING PENETRATES FOUNDATIONS, FOOTINGS SHALL BE LOWERED, SO PIPES PASS THROUGH WALL WITH A MINIMUM SLEEVE CLEARANCE OF 2" ABOVE TOP OF FOOTING.

RELATION OF UTILITY TRENCH TO BUILDING FOUNDATIONS
SCALE : 3/8" = 1' - 0"

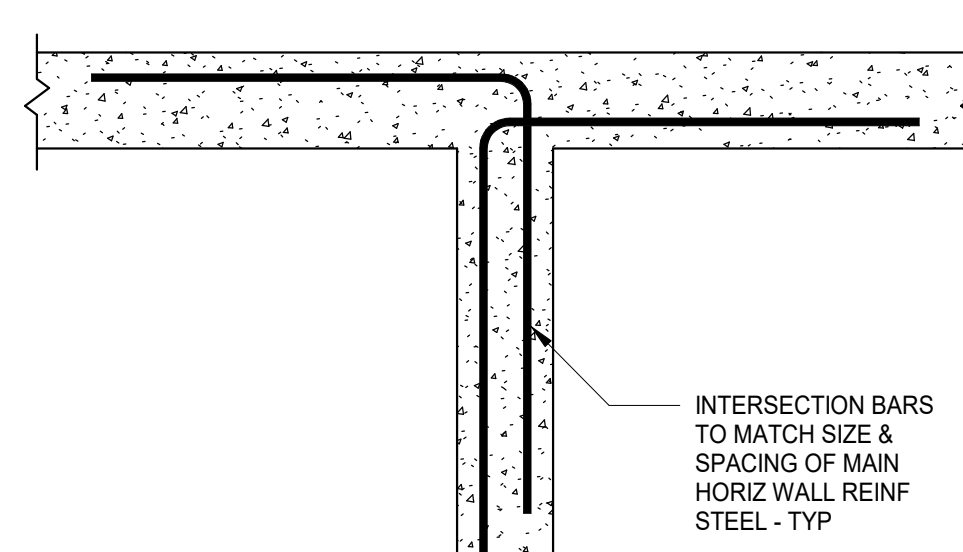


NOTE:
1. CONTRACTOR SHALL COORDINATE FOOTING ELEVATIONS & INVERTS GIVEN ON DRAWINGS w/ MEP DRAWINGS FOR CONFORMITY TO THIS REQUIREMENT. REPORT ANY DISCREPANCIES TO ARCH PRIOR TO POURING FOOTINGS.
2. PROVIDE LEAN CONCRETE BACKFILL FROM BOTTOM OF FOOTING ELEVATION SHOWN ON PLANS TO TYPICAL BOTTOM OF FOOTING ELEVATION.
3. WIDTH OF LEAN CONCRETE FILL TO MATCH WIDTH OF FOOTING ABOVE - TYP

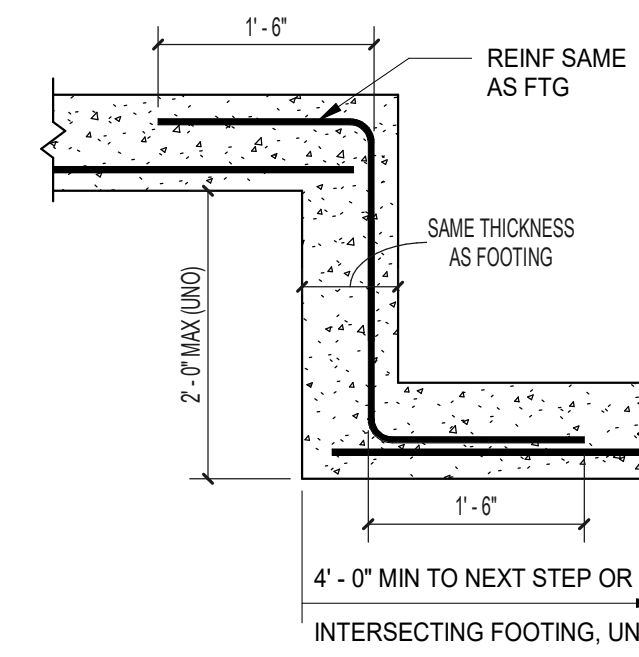
RELATION OF UTILITY TRENCH PARALLEL TO FOUNDATIONS (LEAN CONCRETE FILL OPTION)
SCALE : 3/8" = 1' - 0"



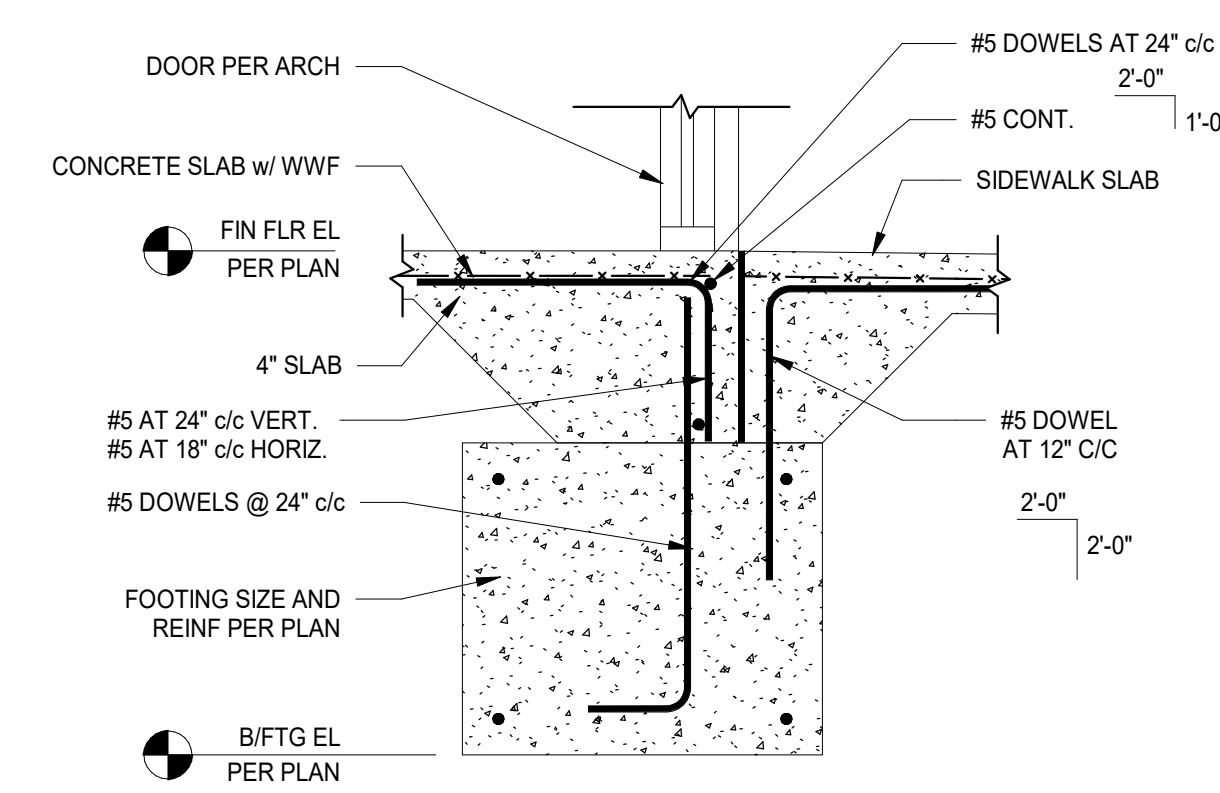
TYPICAL INTERIOR CORNER (WALL, GB or FOOTING)
SCALE : 3/4" = 1' - 0"



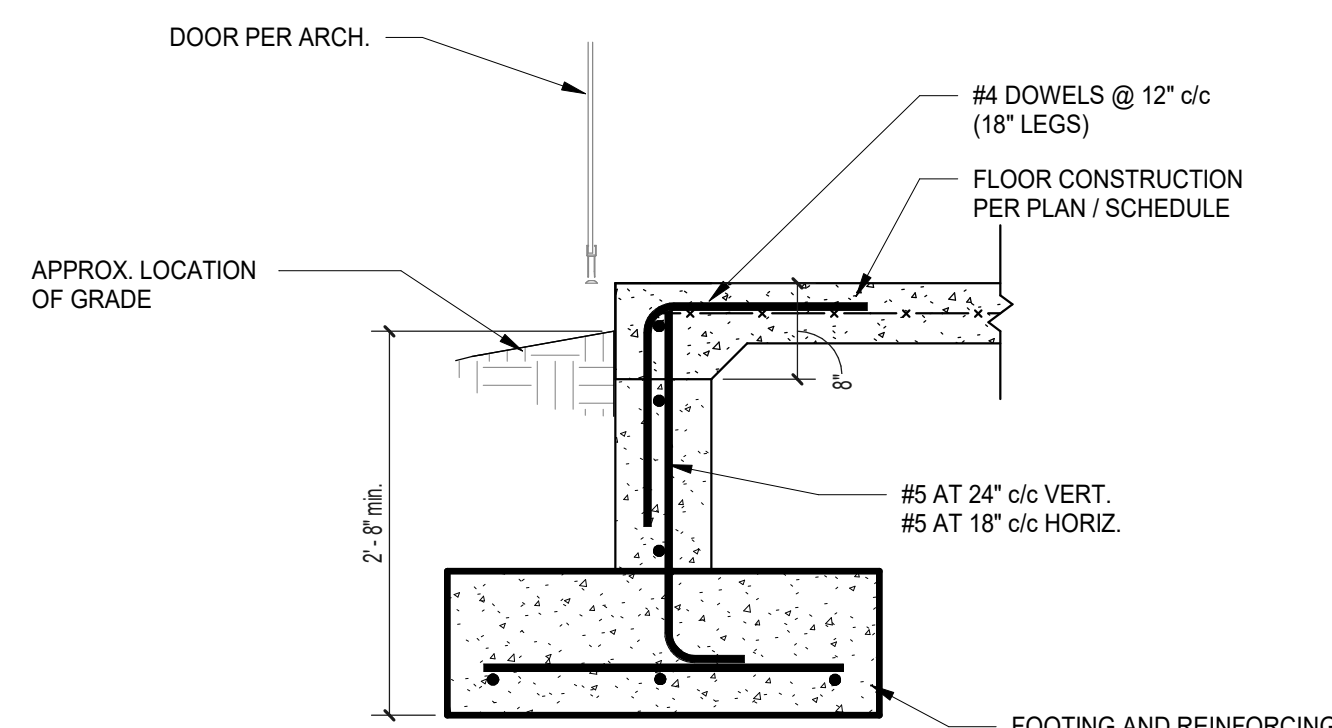
TYPICAL INTERSECTION (WALL, GB or FOOTING)
SCALE : 3/4" = 1' - 0"



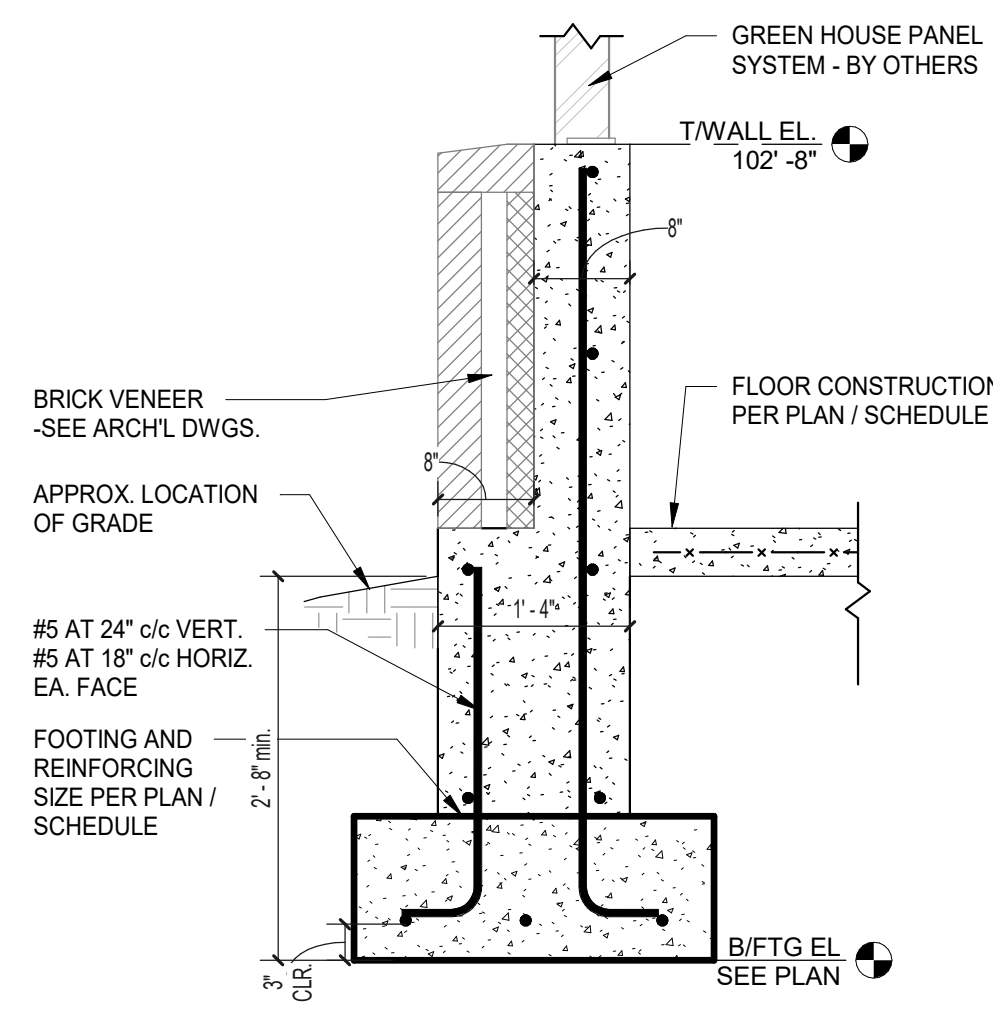
TYPICAL STEP FOOTING DETAIL
SCALE : 3/4" = 1' - 0"



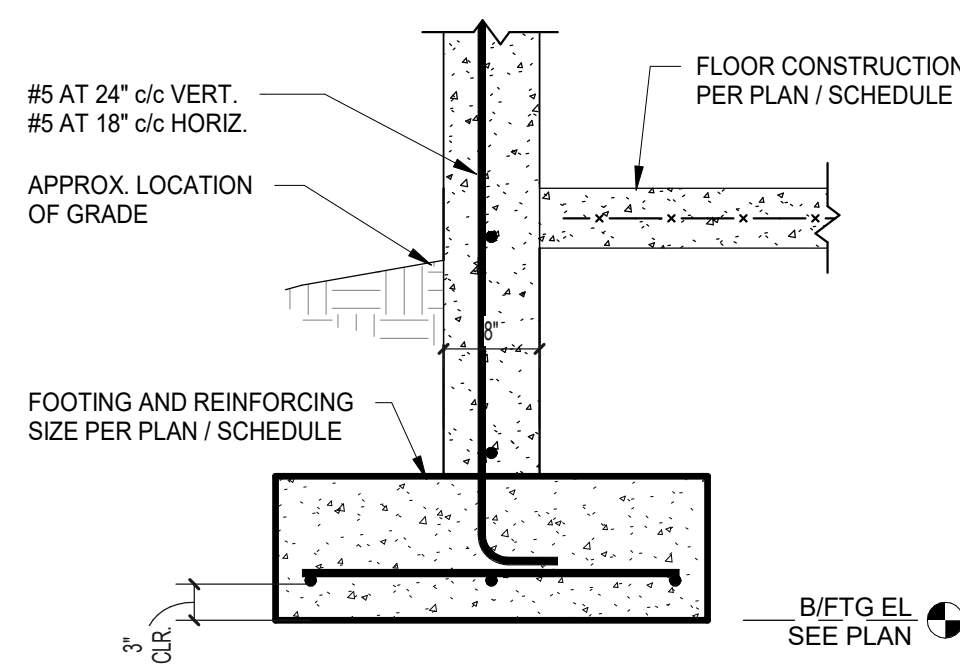
1 SECTION
S301 3/4" = 1'-0"



2 SECTION
S301 3/4" = 1'-0"



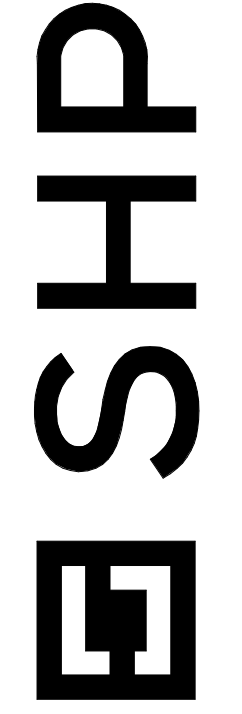
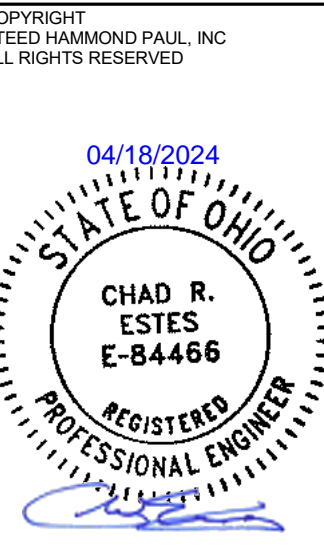
3 SECTION
S301 3/4" = 1'-0"



4 SECTION
S301 3/4" = 1'-0"

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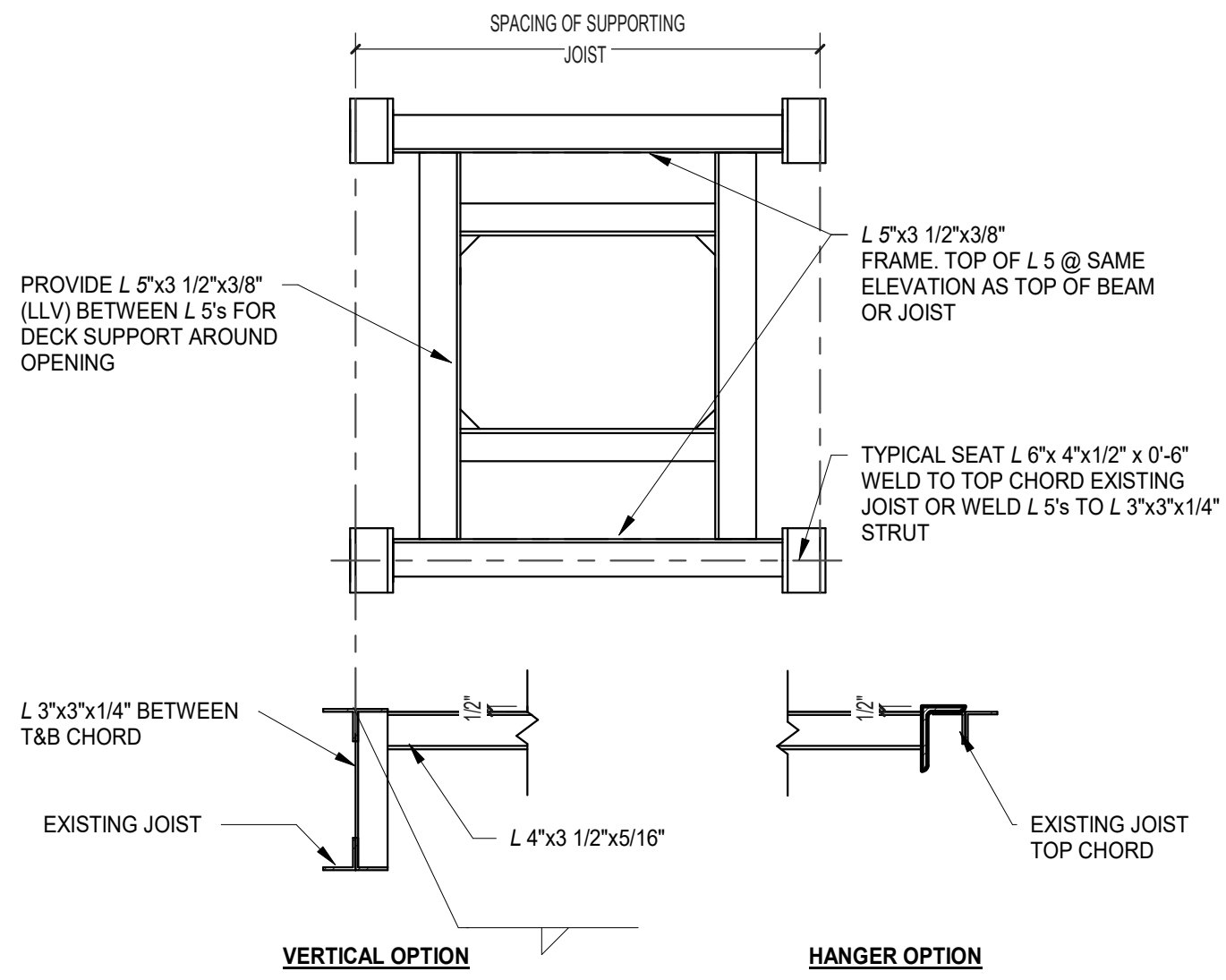
1	04-08-24	90% CD
2	04-15-24	BD/PERMIT SET

FOUNDATION SECTIONS & DETAILS

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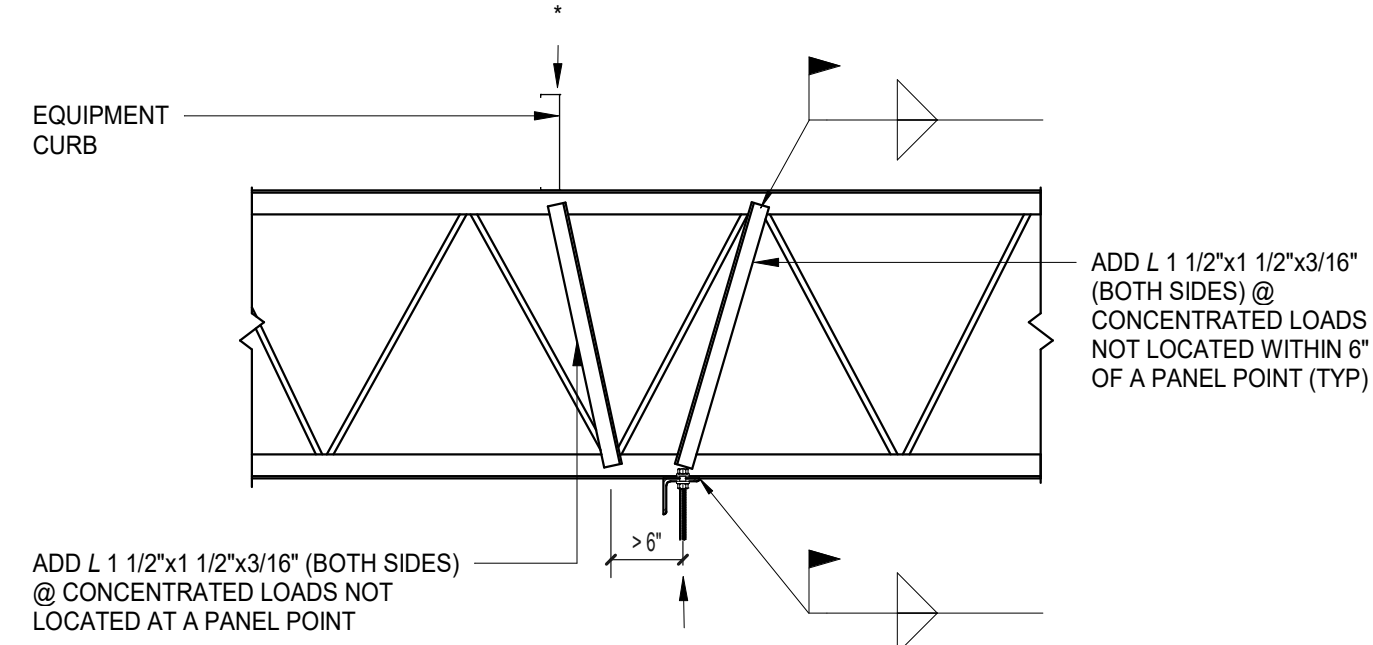
S301

1/4" REFERENCE LINE

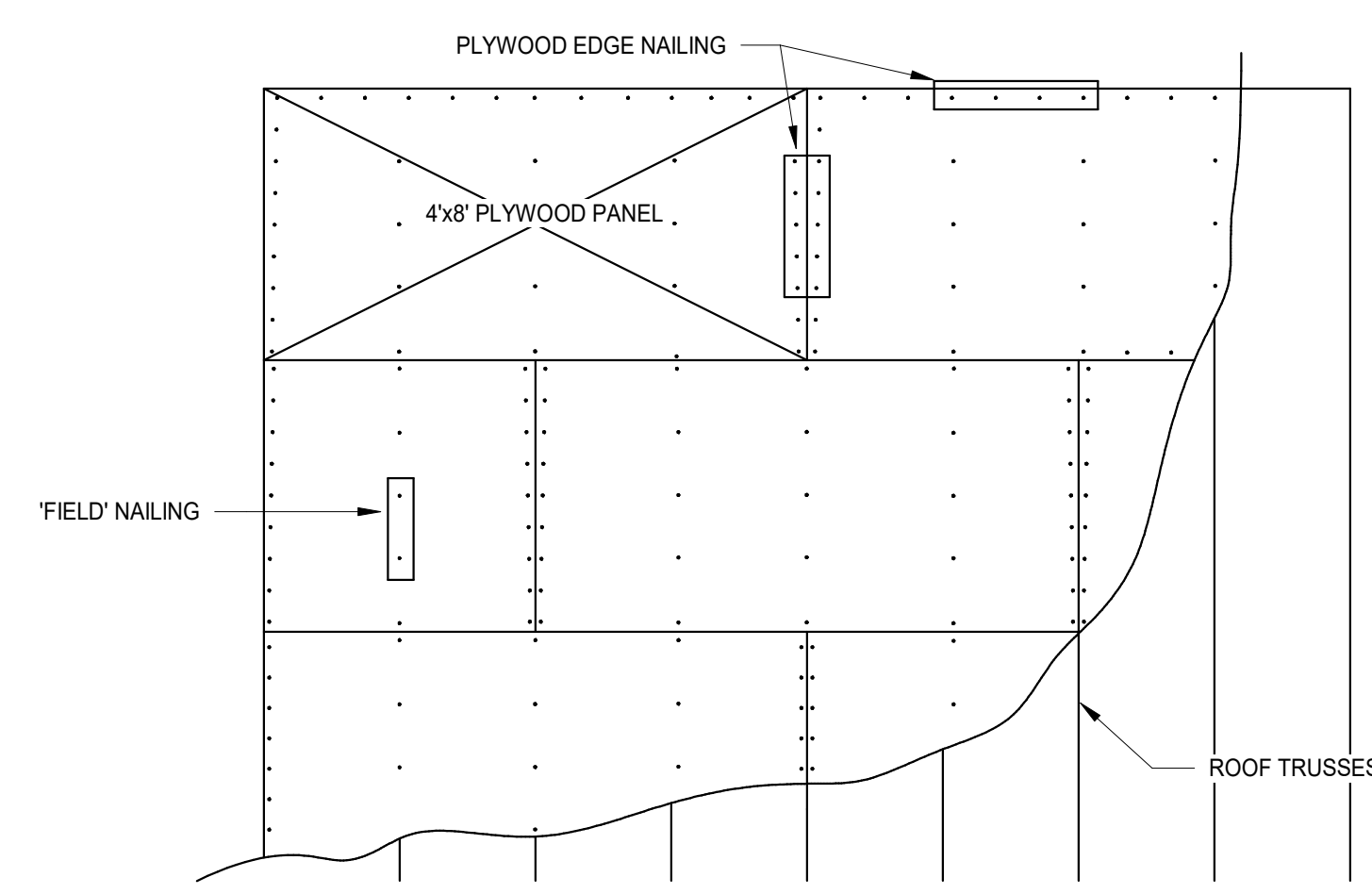


- ROOF FRAME NOTES:**
- 1) REINFORCE DECK AROUND OPENINGS LESS THAN 12" IN ANY DIRECTION WITH MINIMUM TWENTY (20) GAUGE GALV STEEL SHEET AT LEAST 12 INCHES WIDER AND LONGER THAN THE OPENING. PLACE OVER THE OPENING AND FASTEN TO THE TOP OF THE DECK AT EACH CORNER AND 6 INCHES C/C ALONG EACH SIDE.
 - 2) WHERE DECK OPENINGS ARE FROM 15 TO 30 INCHES WIDE, AND ARE NOT SUPPORTED BY STRUCTURAL MEMBERS, PROVIDE 1x1x1/4 INCH STEEL ANGLE TO THE UNDERSIDE OF THE DECK AT RIGHT ANGLES TO RIBS. EXTEND ANGLE TO THREE (3) RIBS BEYOND EACH SIDE OF THE OPENINGS, WELD TO BOTTOM OF EACH RIB. REINFORCE THE OPENING SIDE PARALLEL TO RIBS WITH EACH MINIMUM TWENTY (20) GAUGE GALV STEEL SHEET 12 INCHES WIDE, WELDED AT EACH CORNER AND 6 INCHES C/C ALONG EACH SIDE. SIDE REINFORCING MAY BE OMITTED WHEN A ROOF SUMP PAN IS TO BE INSTALLED OVER THE OPENING.
 - 3) ALL OTHER OPENINGS SHALL BE FRAMED AS SHOWN ON SHEET.

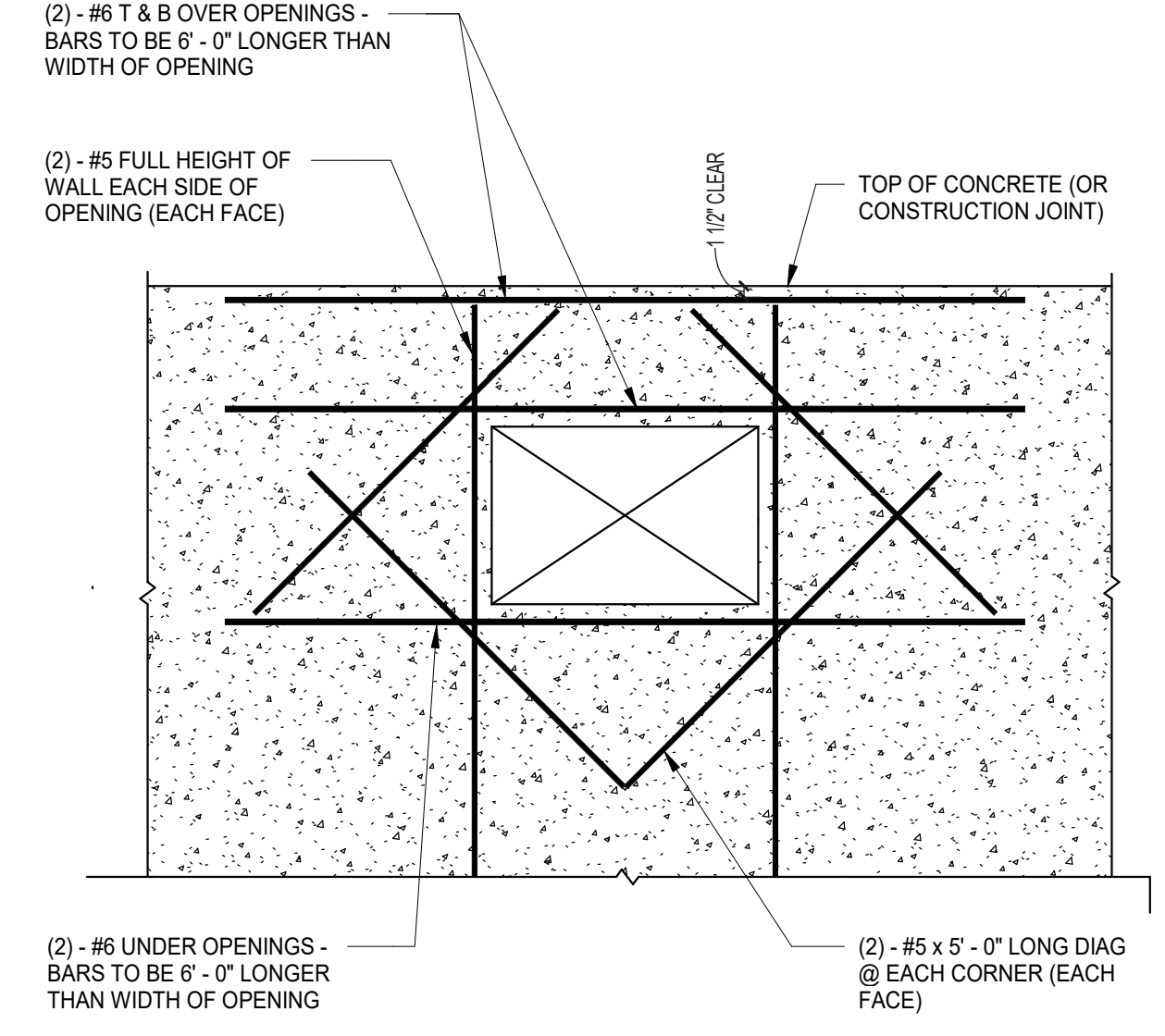
TYPICAL ROOF FRAMES (RF) AT UNIT SUPPORT AND ROOF OPENINGS (ROF)
SCALE: 3/4" = 1'-0"



TYPICAL REINFORCEMENT OF JOIST FOR CONCENTRATED LOAD NOT AT PANEL POINT
SCALE: 3/4" = 1'-0"

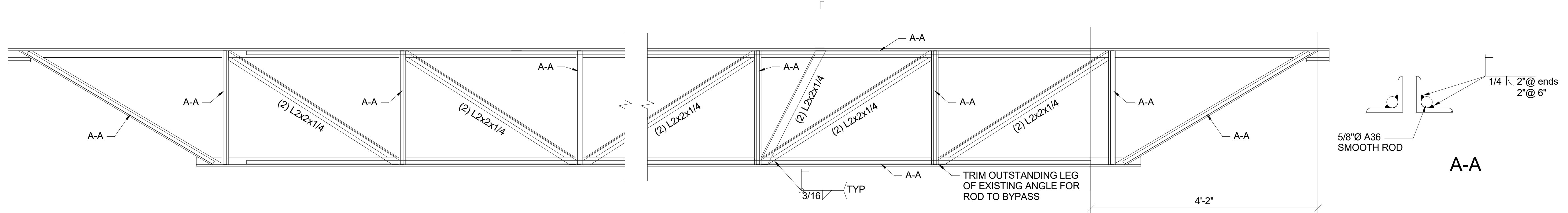


TYPICAL ROOF SHEATHING FASTENING
SCALE: 3/4" = 1'-0"

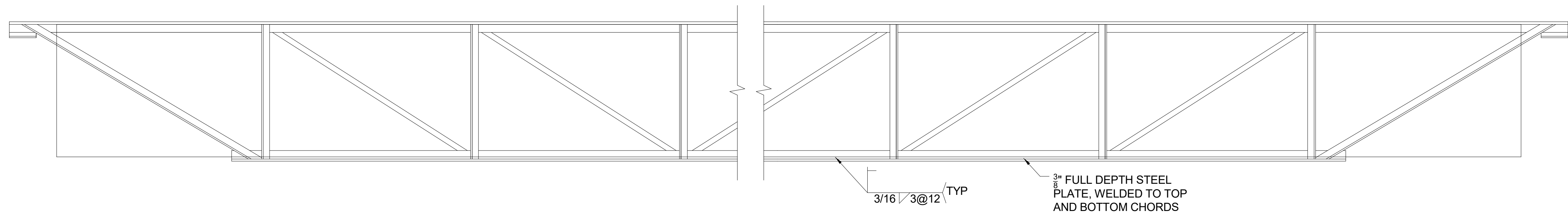


TYPICAL OPENING IN CONCRETE WALL
SCALE: 1/2" = 1'-0"

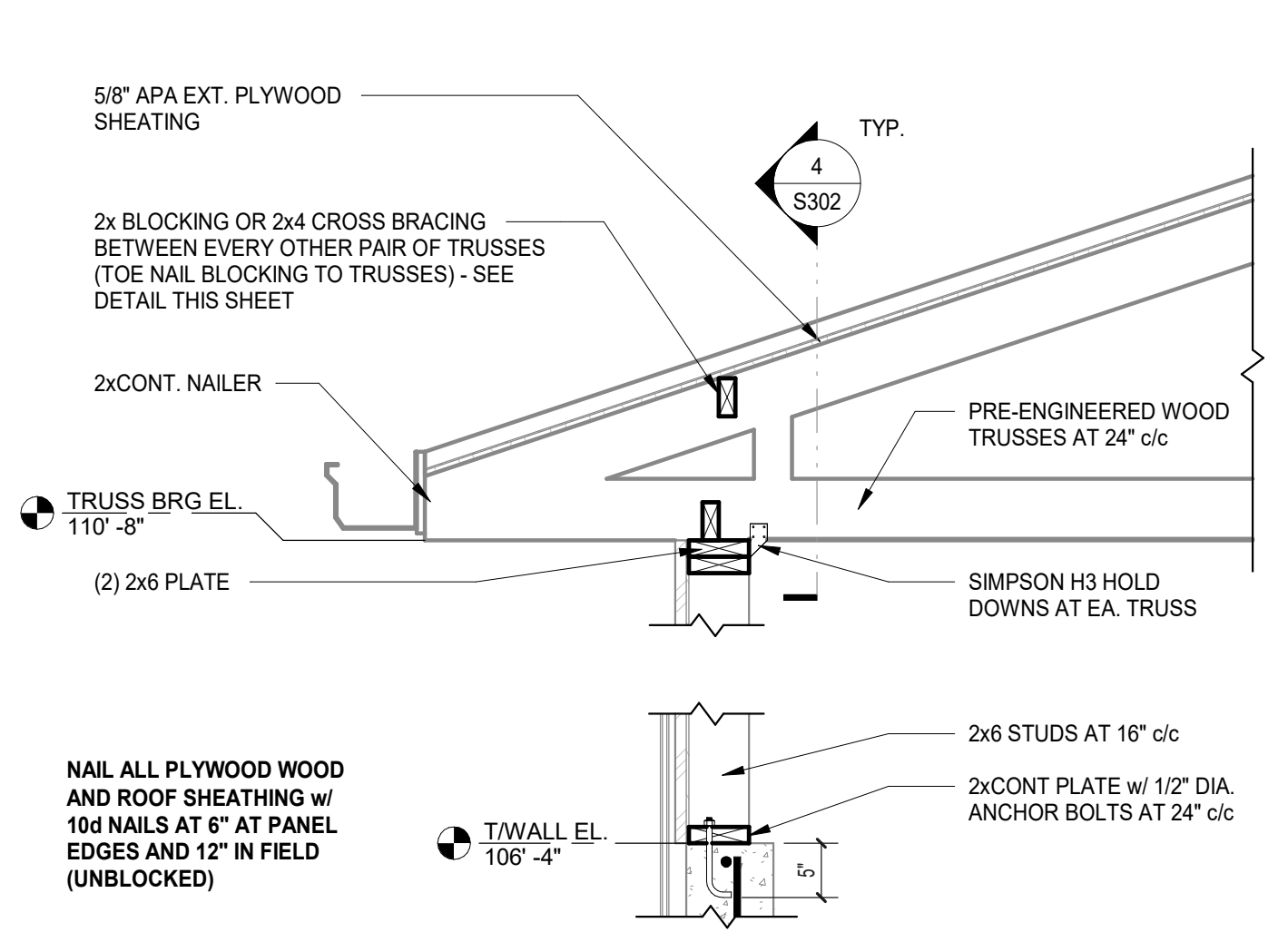
NOTES:
USE FOR OPENINGS GREATER THAN 2'-6" IN EITHER DIRECTION ALL REINFORCING SHOWN IS IN ADDITION TO TYPICAL REINFORCING



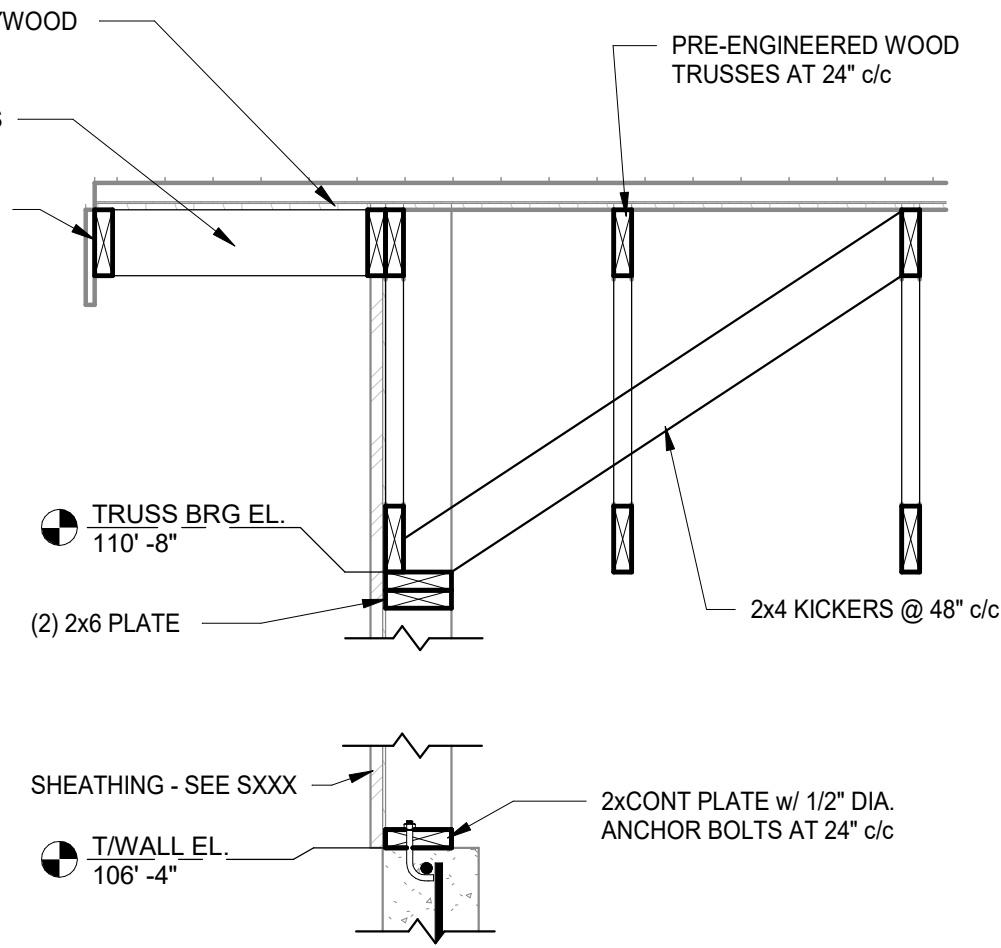
JOIST REINFORCEMENT DETAIL - STEEL ANGLE AND BAR REINFORCEMENT OPTION



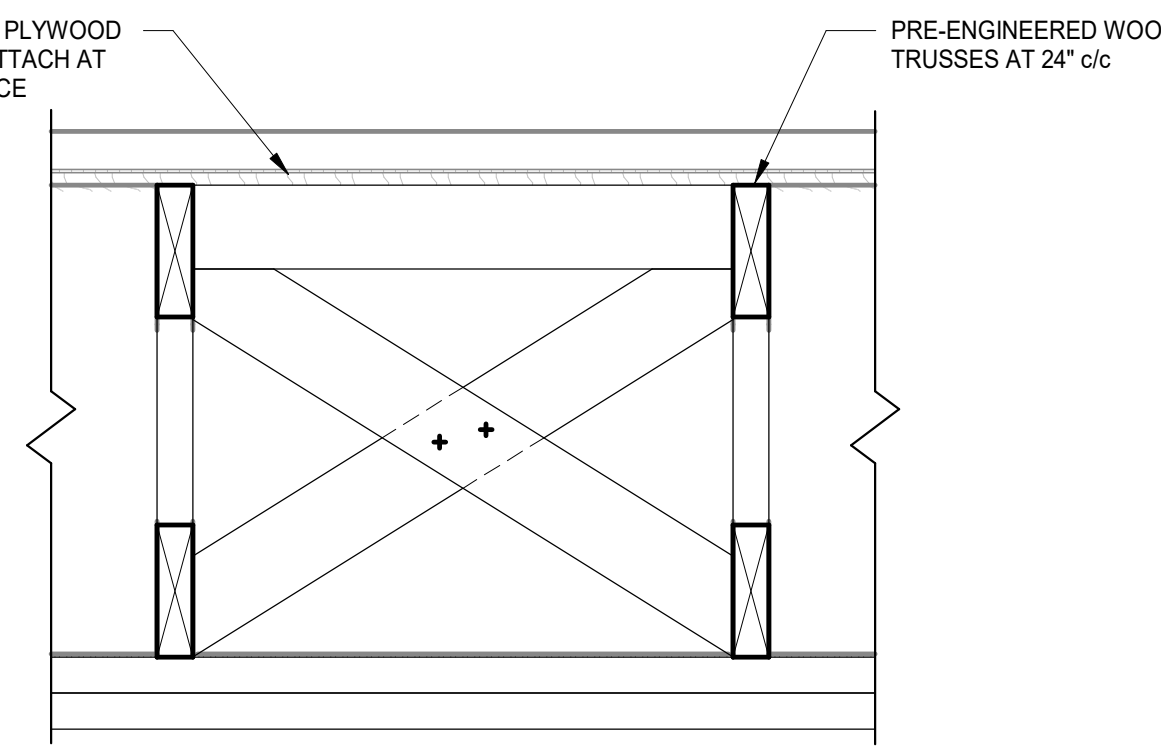
JOIST REINFORCEMENT DETAIL - FULL DEPTH PLATE REINFORCEMENT OPTION



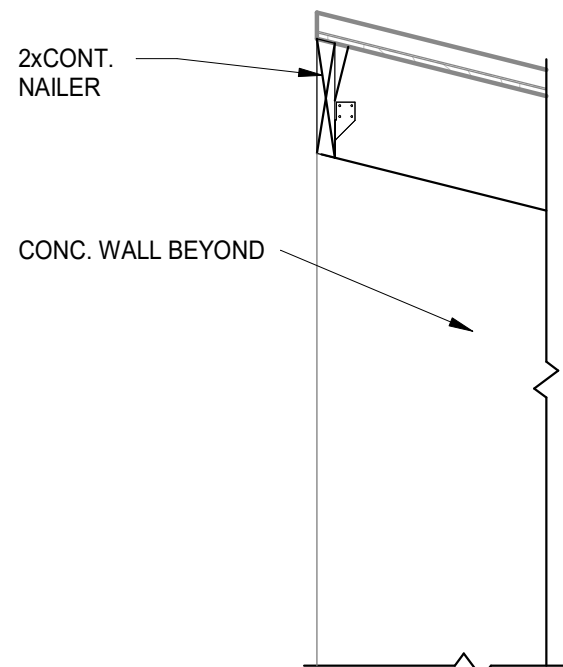
2 SECTION
S302 3/4" = 1'-0"



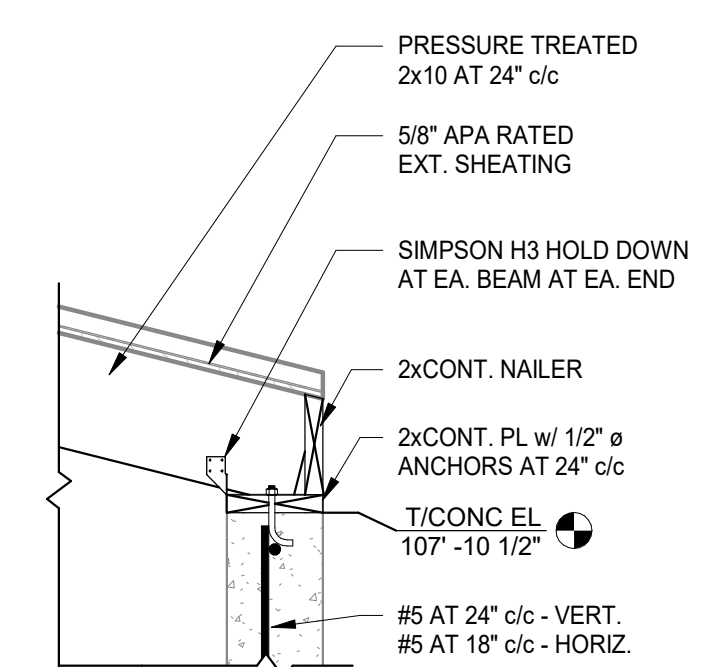
3 SECTION
S302 3/4" = 1'-0"



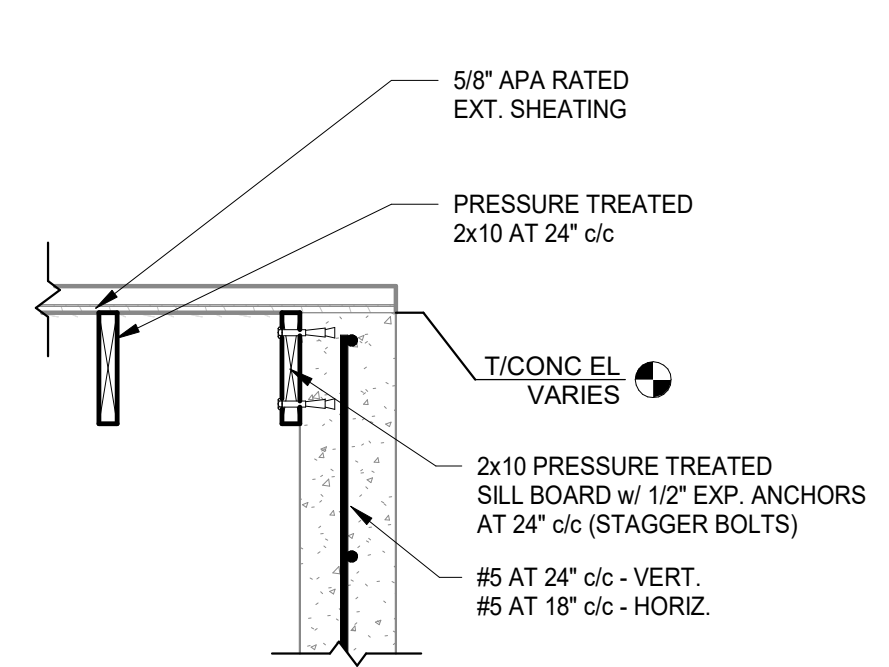
4 SECTION
S302 1 1/2" = 1'-0"



5 SECTION
S302 3/4" = 1'-0"



6 SECTION
S302 3/4" = 1'-0"



ISSUANCES

1	04-08-24	90% CD
2	04-18-24	BID/PERMIT SET

FRAMING SECTIONS AND DETAILS

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S302

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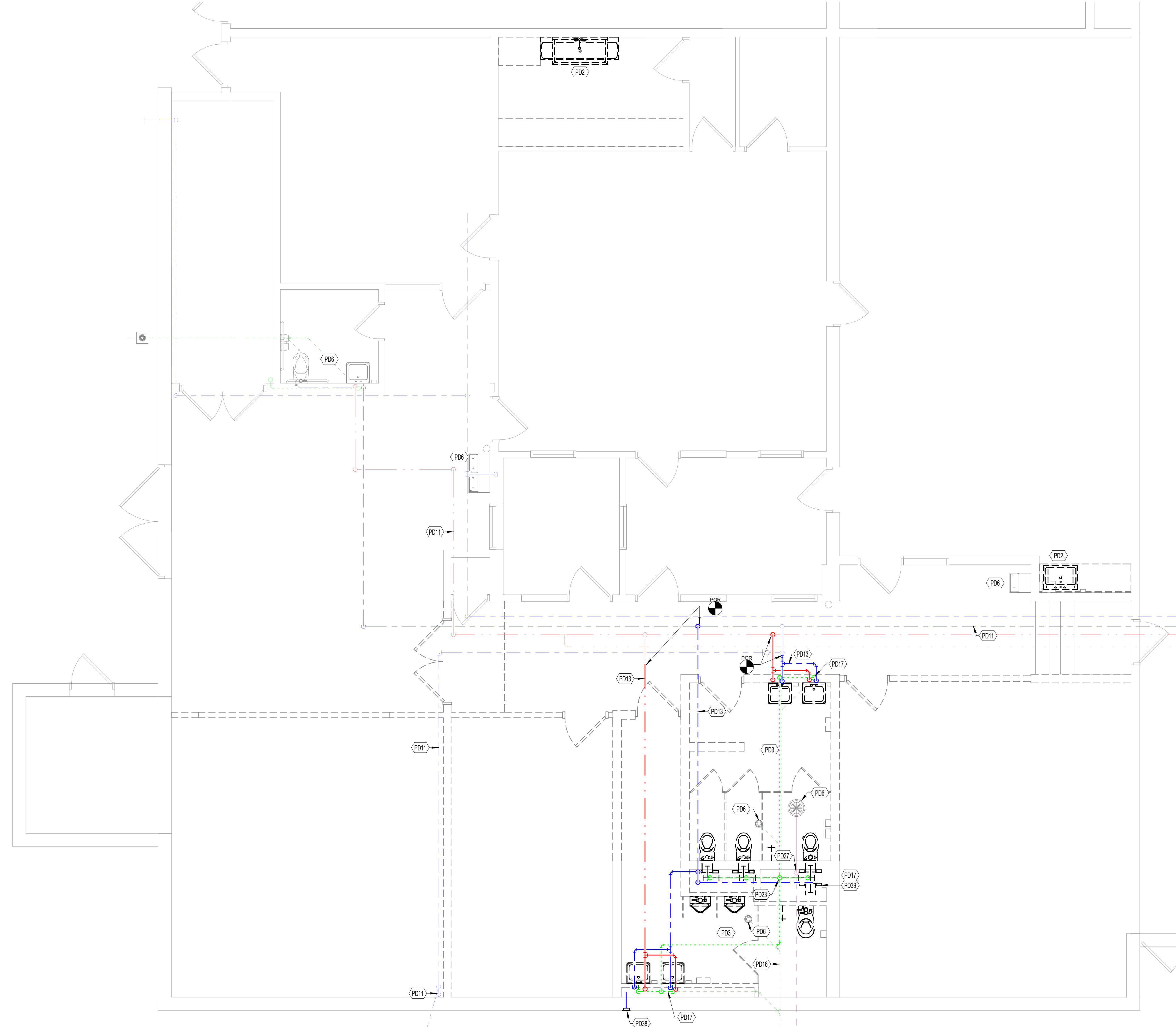
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PLUMBING DEMOLITION NOTES

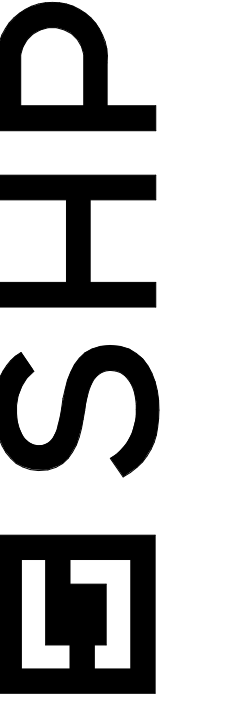
- A. DRAWINGS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CONSTRUCTION MANAGER OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.
- B. PIPING, FIXTURES, AND EQUIPMENT DENOTED BY BOLD, DASHED LINE TYPE GENERALLY INDICATES WORK TO BE DEMOLISHED. REFER TO DRAWING NOTES AND KEYNOTES FOR FULL EXTENT OF ASSOCIATED DEMOLITION WORK AND ITEMS TO REMAIN.

KEYNOTES

- PD2 FIXTURE(S) IN THIS AREA TO BE DEMOLISHED. CAP SUPPLY AND WASTE PIPING WITHIN WALL. PATCH WALL TO MATCH THE EXISTING CONDITIONS.
- PD3 FIXTURE(S) AND ABOVEGROUND SUPPLY AND WASTE PIPING IN THIS AREA TO BE DEMOLISHED. CAP SANITARY BELOW FLOOR AND PATCH TO MATCH EXISTING.
- PD6 FIXTURE(S) ARE EXISTING TO REMAIN.
- PD11 SUPPLY PIPING IS EXISTING TO REMAIN.
- PD13 SUPPLY PIPING TO BE DEMOLISHED. CAP PIPE AT SUPPLY MAIN.
- PD16 UNDERGROUND SANITARY PIPING TO BE ABANDONED IN PLACE.
- PD17 SANITARY PIPING TO BE DEMOLISHED. CAP PIPE BELOW FLOOR AND PATCH FLOOR TO MATCH EXISTING.
- PD23 VENT THROUGH ROOF AT NOTED LOCATION(S) ARE TO BE ABANDONED IN PLACE. CAP OPEN ENDS OF VENT PIPE BOTH ABOVE AND BELOW ROOF LINE.
- PD27 STORM PIPING IS EXISTING TO REMAIN.
- PD38 DEMOLISH WATER LINE AND PATCH WALL TO MATCH EXISTING.
- PD39 SANITARY AND SUPPLY PIPING IN CHASE TO BE DEMOLISHED. PATCH EXISTING WALLS TO REMAIN.



1 FIRST FLOOR PLUMBING DEMOLITION PLAN - AG LAB
 P010 1/4" = 1'-0"



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DATE	DESCRIPTION
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04-09-24	ISSN CD
A 04-18-24	BID/PERMIT SET

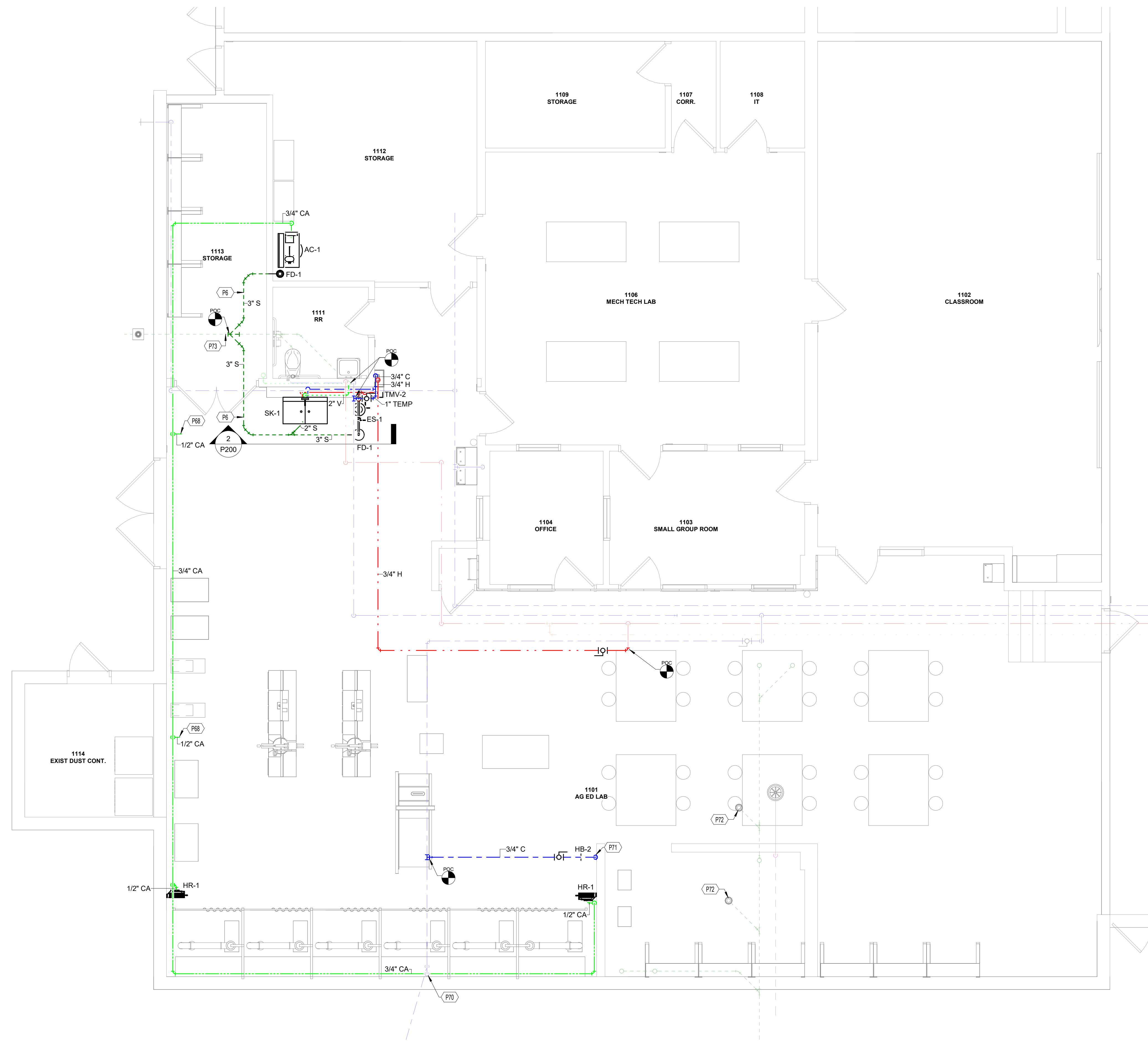
PLUMBING DEMOLITION PLANS

COMM NO. 2024006.01

P010

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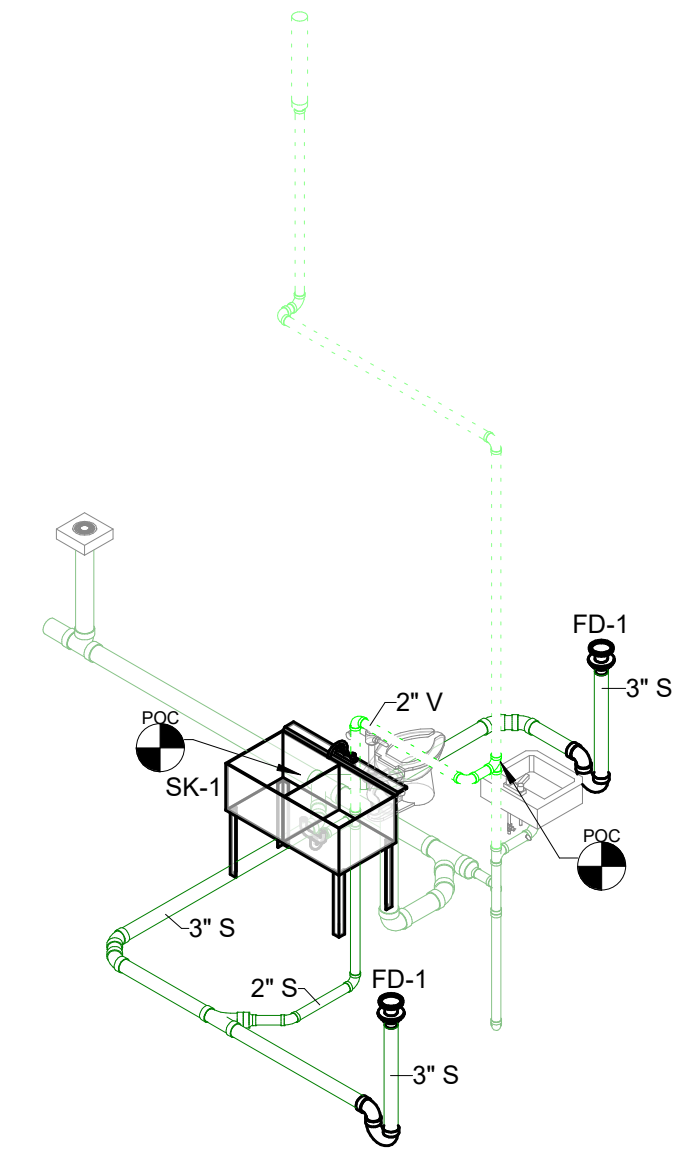
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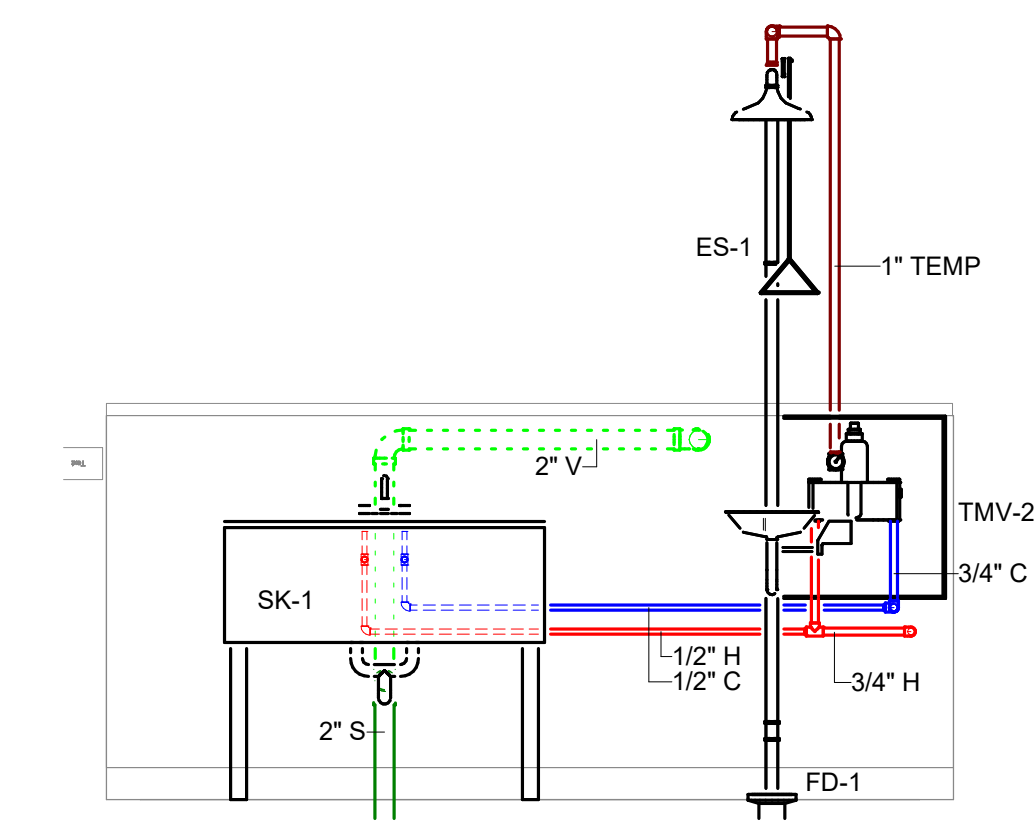
1 FIRST FLOOR PLUMBING PLAN - AG LAB
 P200 1/4" = 1'-0"

KEYNOTES

- P6 EXISTING FLOOR TO BE SAW CUT FOR INSTALLATION OF NEW SANITARY WASTE PIPING. PATCH FLOOR TO MATCH EXISTING CONDITIONS PER DETAIL 7/P000.
- P68 1/2" COMPRESSED AIR DROP ALONG WALL TO 48" ABOVE FLOOR. REFER TO DETAIL 4/P000.
- P70 WATER LINE TO BE PROTECTED WITHIN WELDING BOOTH. COORDINATE WITH ARCHITECT.
- P71 NEW COLD WATER EXPOSED ON WALL DOWN TO HOSE BIBB MOUNTED 24" ABOVE FLOOR.
- P72 ADD ASSE 1072 BARRIER TYPE TRAP SEALS TO EXISTING FLOOR DRAINS.
- P73 CONTRACTOR TO FIELD VERIFY THAT THE DEPTH OF EXISTING SANITARY PIPING IS ADEQUATE FOR CONNECTION.



3 WASTE AND VENT ISOMETRIC - AG LAB
 P200



2 EMERGENCY SHOWER SECTION
 P200 1/2" = 1'-0"



SHP
 312 PLUM STREET, SUITE 700
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JEFFERSON TOWNSHIP LOCAL SCHOOL DISTRICT
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ISSUANCES

03-01-24	DESIGN DEVELOPMENT
04-09-24	10% CD
A 04-18-24	BID/PERMIT SET

PLUMBING FLOOR PLANS - AG LAB

COMM NO. 2024006.01

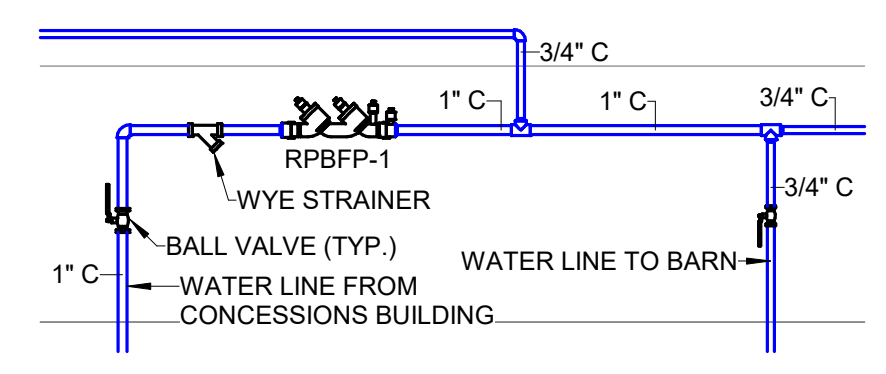
P200

1" = 1" REFERENCE LINE

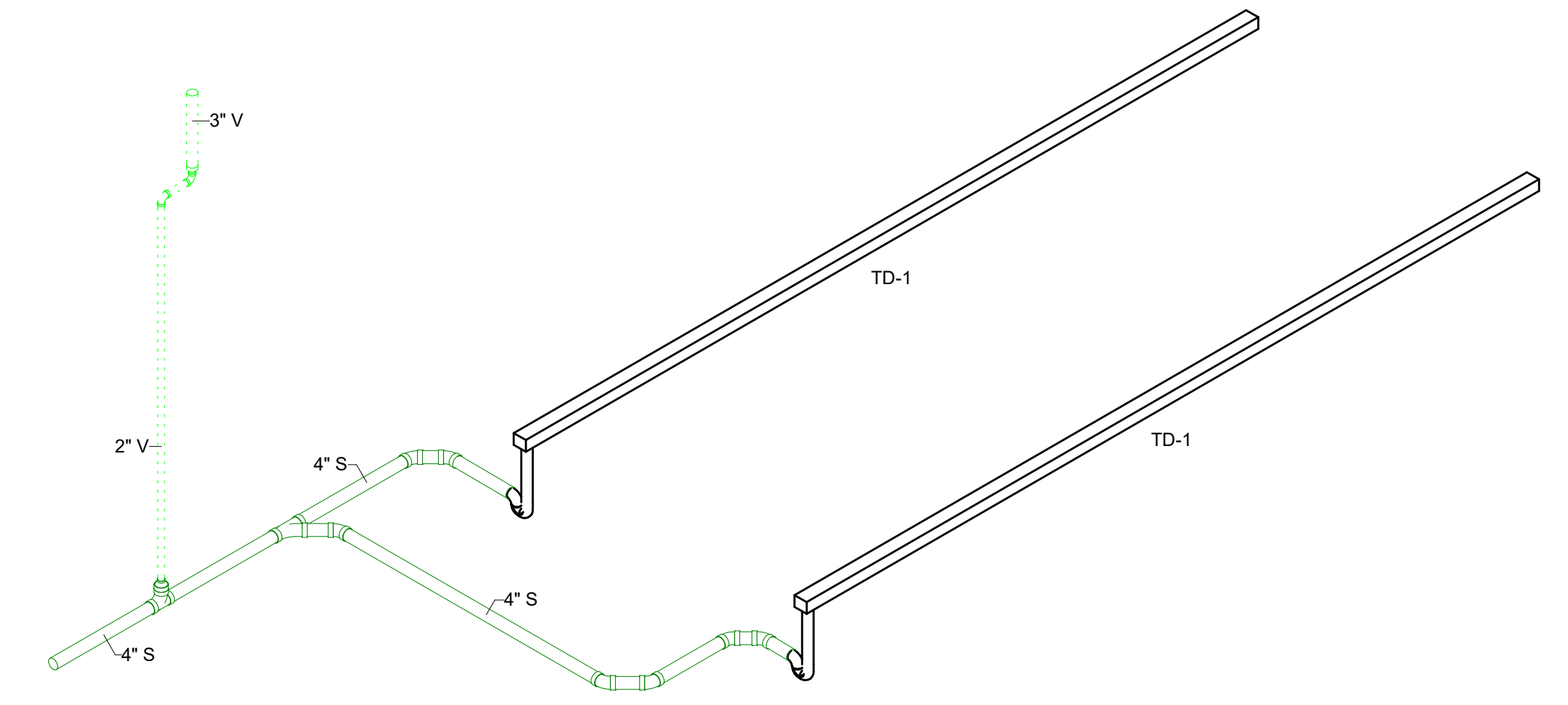


KEYNOTES

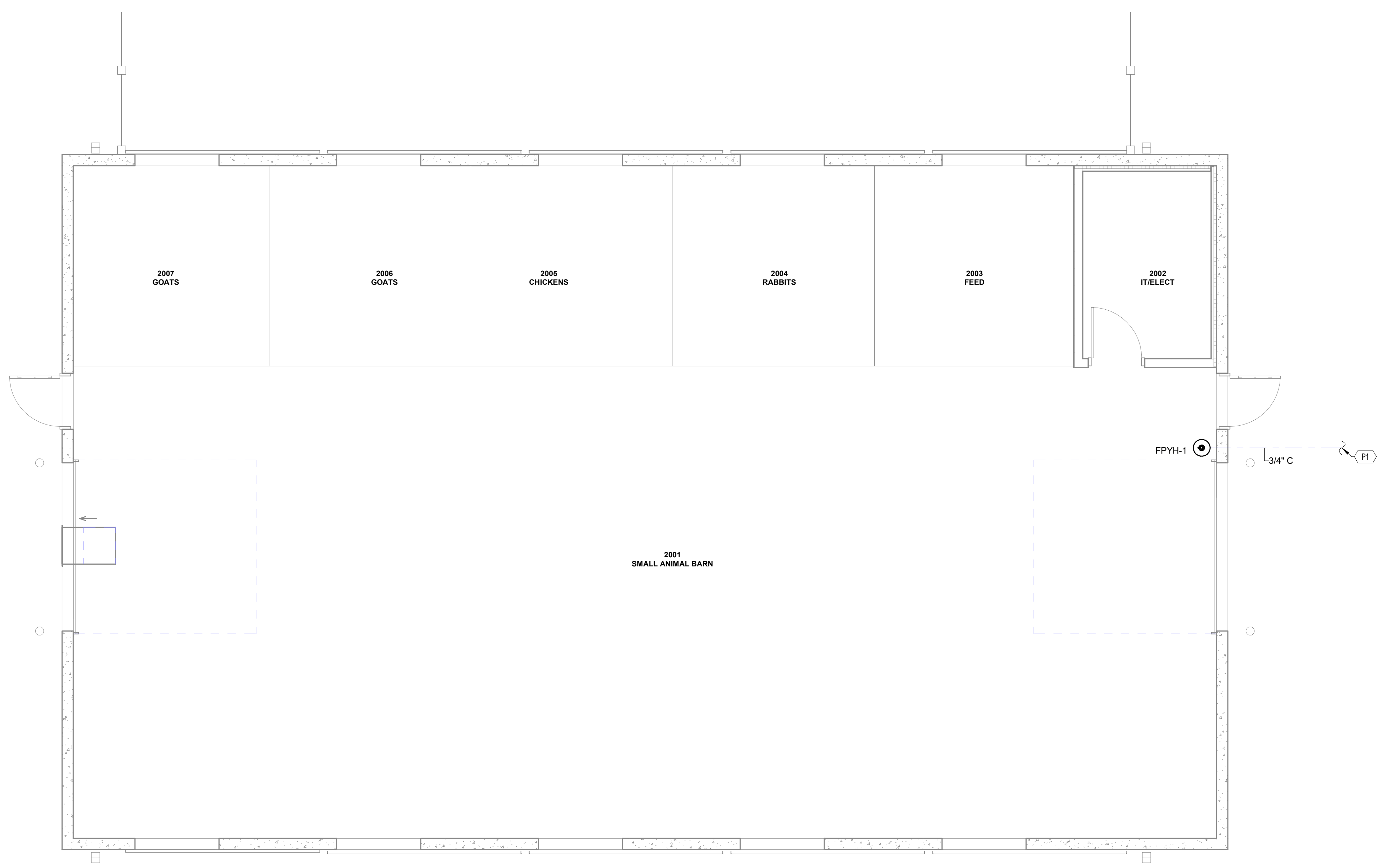
- P1 EXTEND PIPING FIVE FEET OUTSIDE BUILDING FOUNDATION AND PROVIDE FINAL CONNECTION TO SITE UTILITIES.
- P10 3" VENT THRU ROOF. REFER TO DETAIL 9/P000.
- P24 PROPANE GAS PIPING CONNECTION TO EQUIPMENT. REFER TO DETAIL 6/P000.



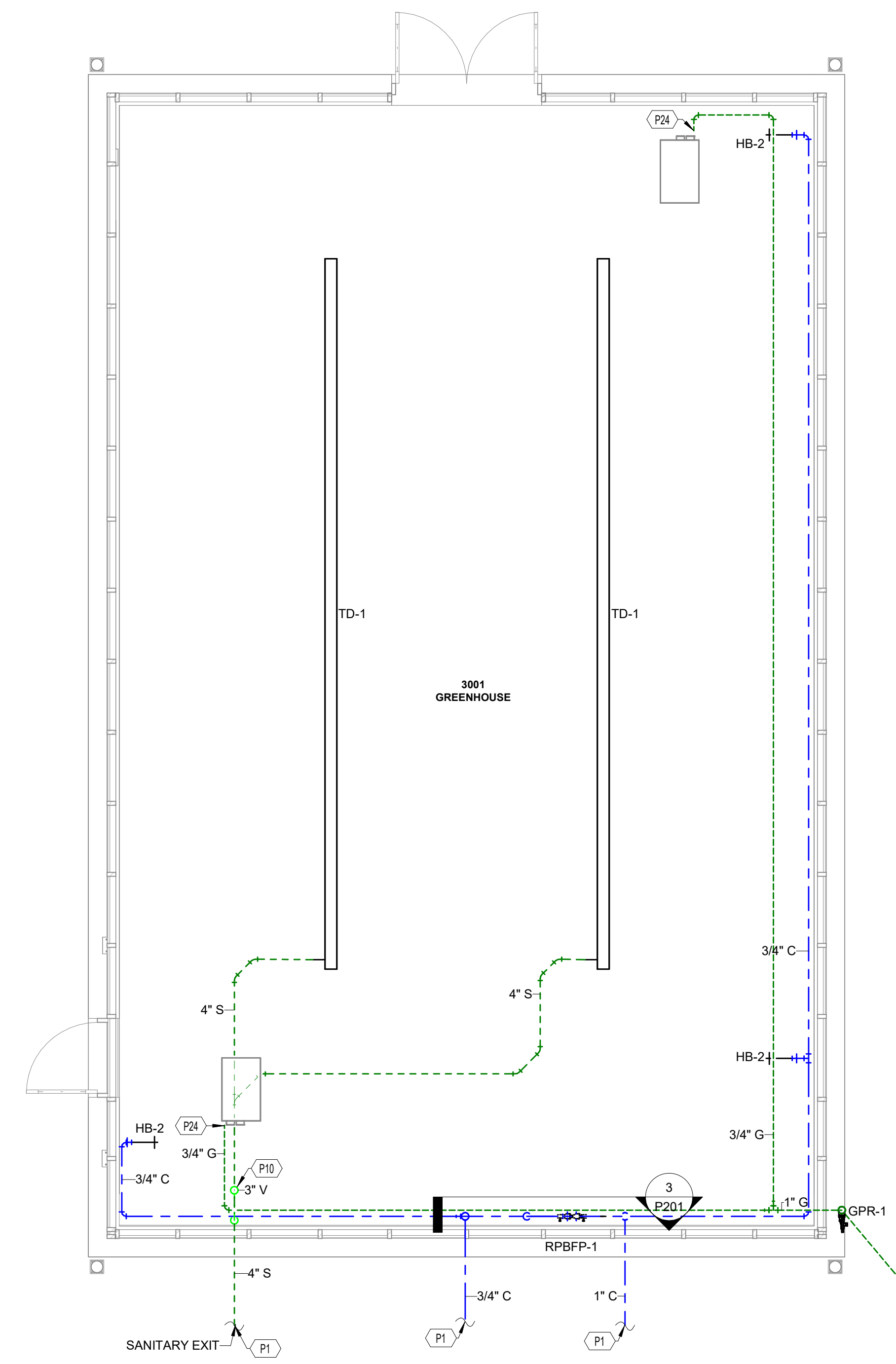
3 GREENHOUSE BACKFLOW PREVENTER
P201 1/2" = 1'-0"



4 WASTE AND VENT ISOMETRIC - GREENHOUSE
P201



1 PLUMBING PLAN - ANIMAL BARN
P201 1/4" = 1'-0"



2 PLUMBING PLAN - GREENHOUSE
P201 1/4" = 1'-0"

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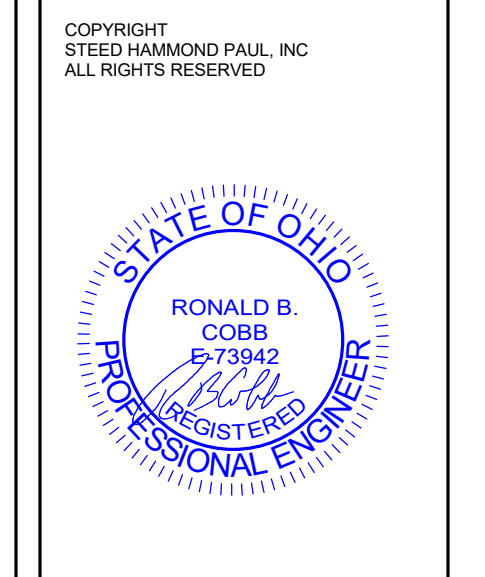
ISSUANCES

NO.	DATE	DESCRIPTION
03-01-24	DESIGN DEVELOPMENT	
04-09-24	100% CD	
A 04-18-24	BID/PERMIT SET	

PLUMBING FLOOR PLANS - BARN AND GREENHOUSE

COMM NO. 2024006.01

P201



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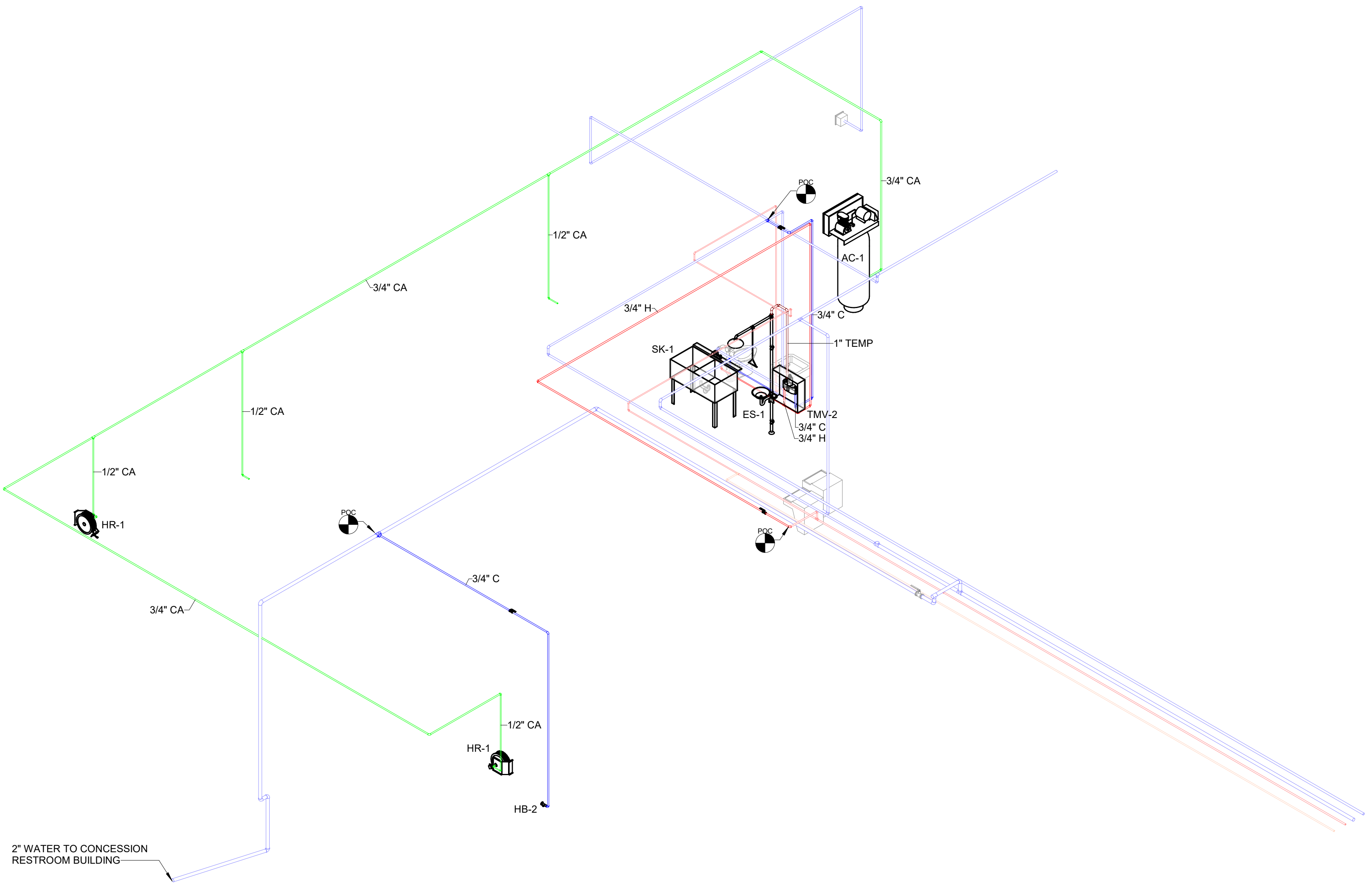
ISSUANCES	
04-08-24	90% CD
A	04-15-24 BIO/PERMIT SET

PLUMBING
 SUPPLY
 PIPING
 ISOMETRIC

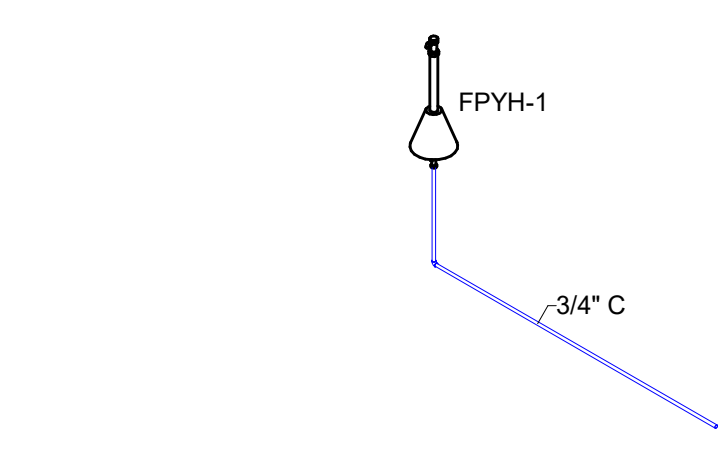
COMM NO. 2024006.01

P401

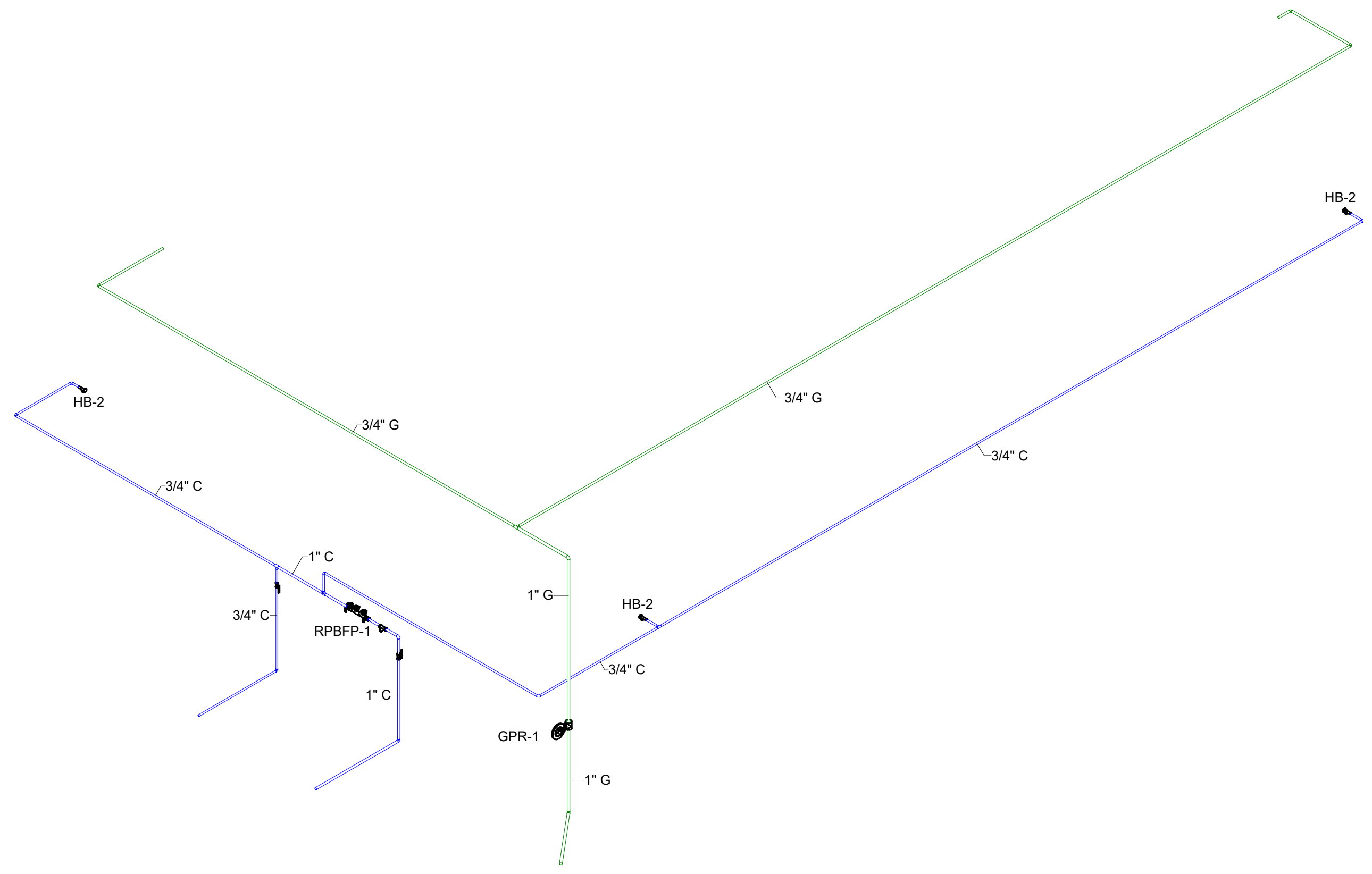
1/8" REFERENCE LINE



1 SUPPLY PIPING ISOMETRIC - AG LAB
 P401



3 SUPPLY PIPING ISOMETRIC - BARN
 P401



2 SUPPLY PIPING ISOMETRIC - GREENHOUSE
 P401

2\"/>

3/4\"/>

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 MONTGOMERY COUNTY, OHIO
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 PARCEL 1
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KEYNOTES

P69 FIELD VERIFY EXACT LOCATION OF SITE
 PROPANE PIPING.



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ISSUANCES

03-01-24 DESIGN DEVELOPMENT
 04-09-24 50% CD
 A 04-18-24 BID/PERMIT SET

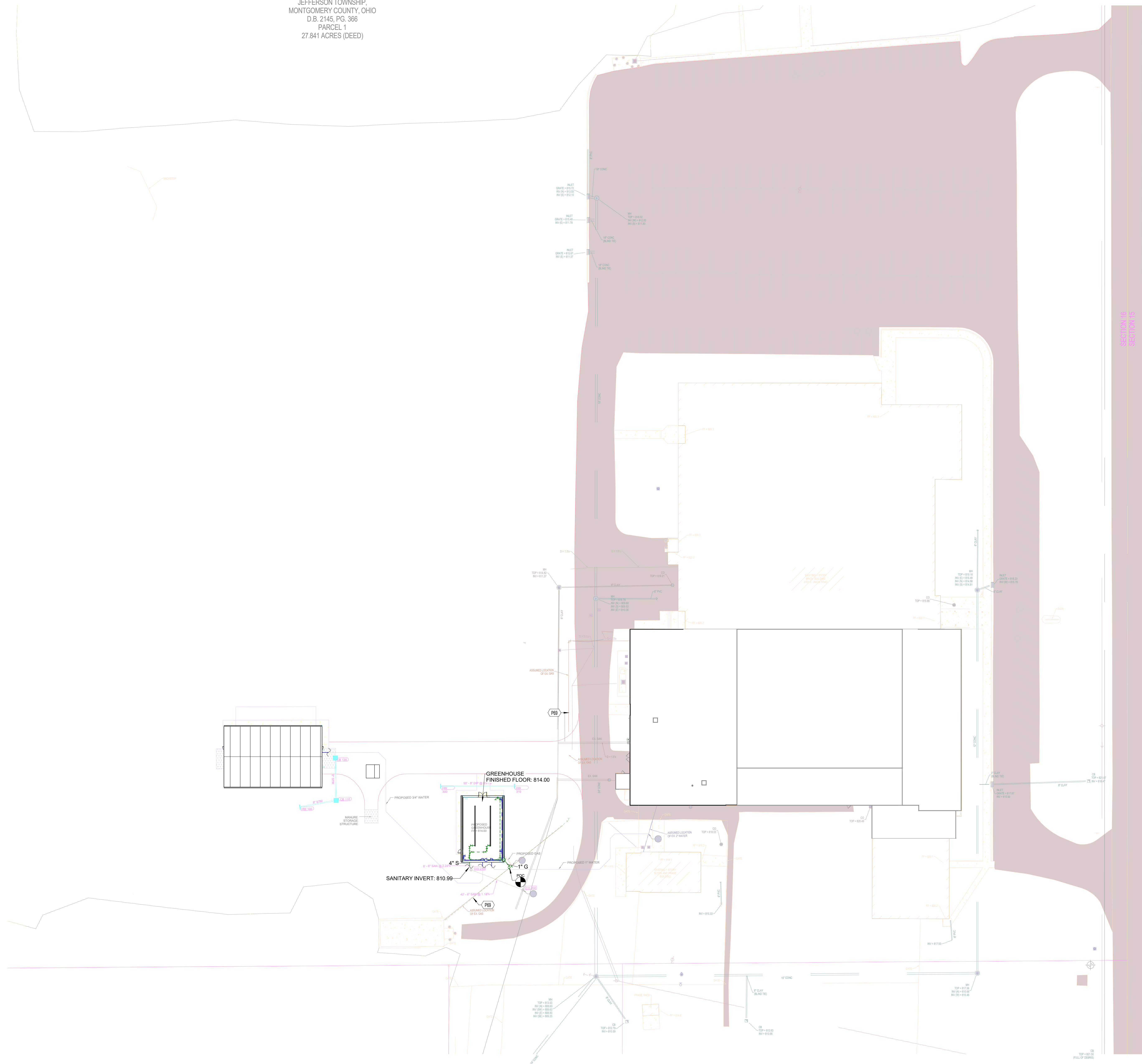
**PLUMBING
 SITE PLAN**

COMM NO. 2024006.01

P500

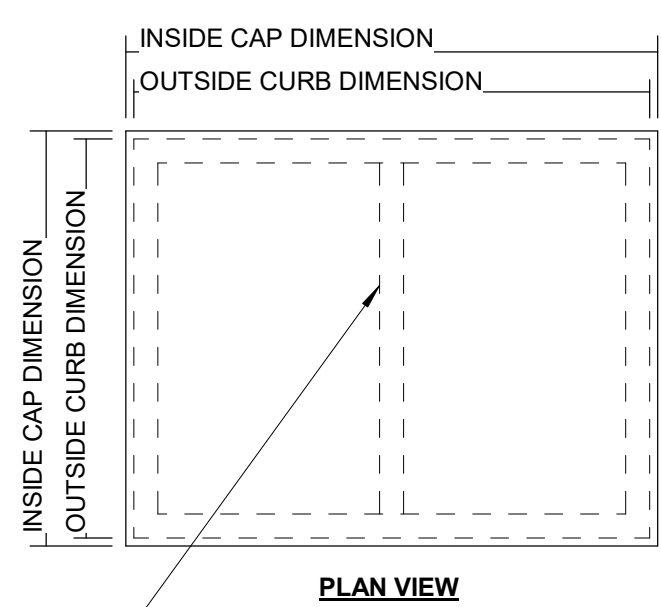
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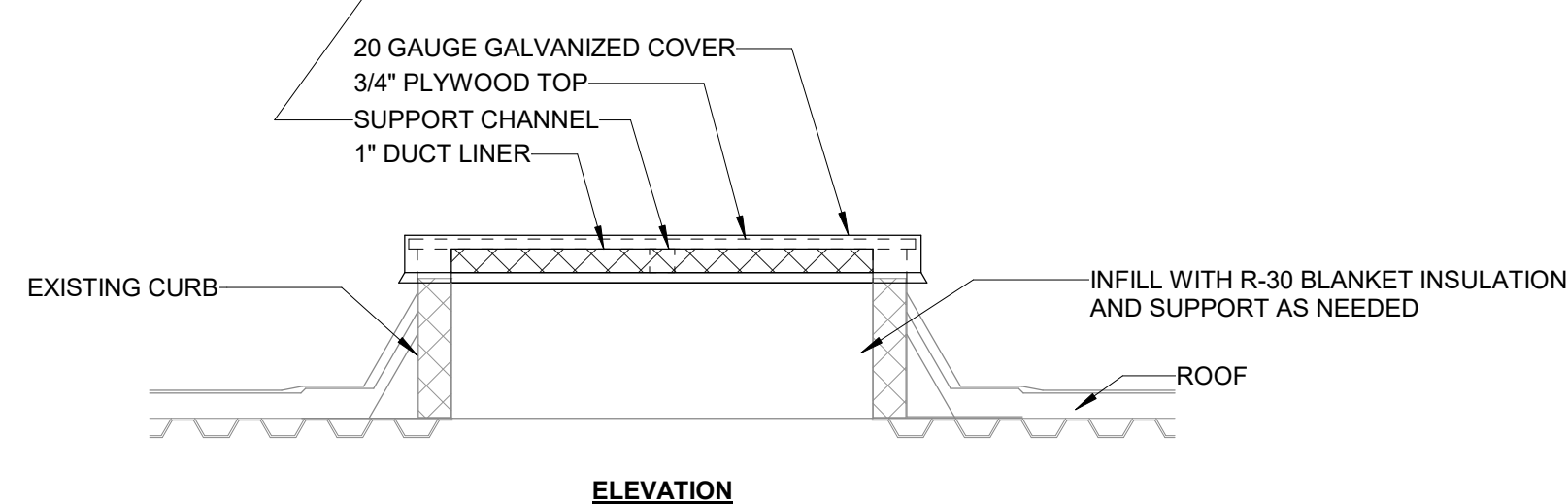


1 PLUMBING SITE PLAN
 P500 1" = 30'-0"

1" = 1" REFERENCE LINE

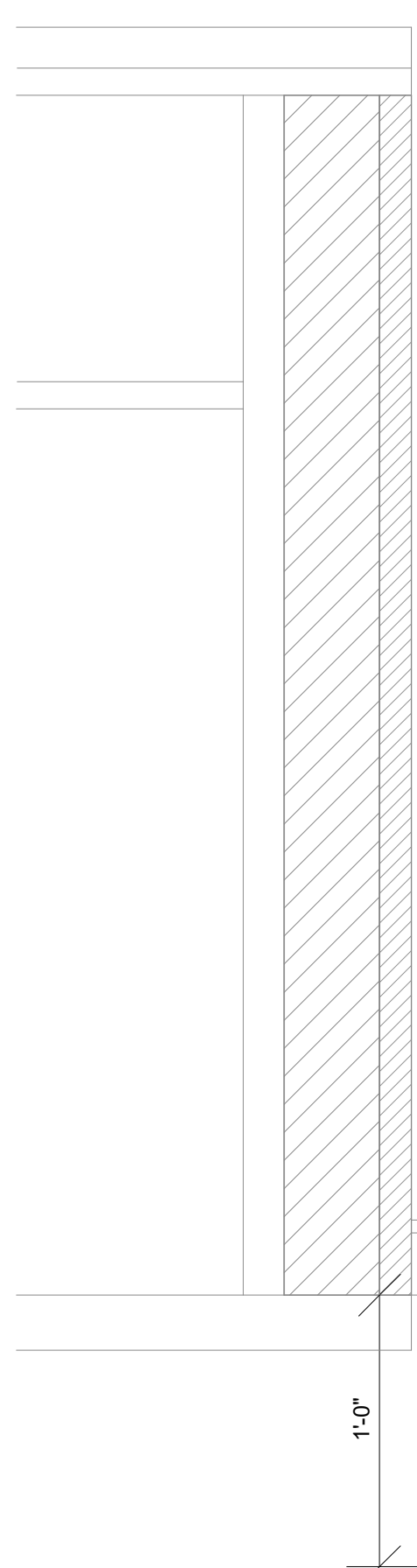


NOTES:
 1. INSIDE CAP DIMENSION = CURB OUTSIDE DIMENSION PLUS 1-1/2" ON ALL INSULATED CONVENTIONAL ROOF CURBS AND 1/2" ON ALL METAL BUILDING ROOF CURBS AND NON-INSULATED ROOF CURBS.
 2. CONTRACTOR TO DESIGN SUPPORT CHANNEL ARRANGEMENT TO ACCOMMODATE LIVE LOAD OF 20 LBS/FS PLUS DEAD LOAD OF THE INFILL.



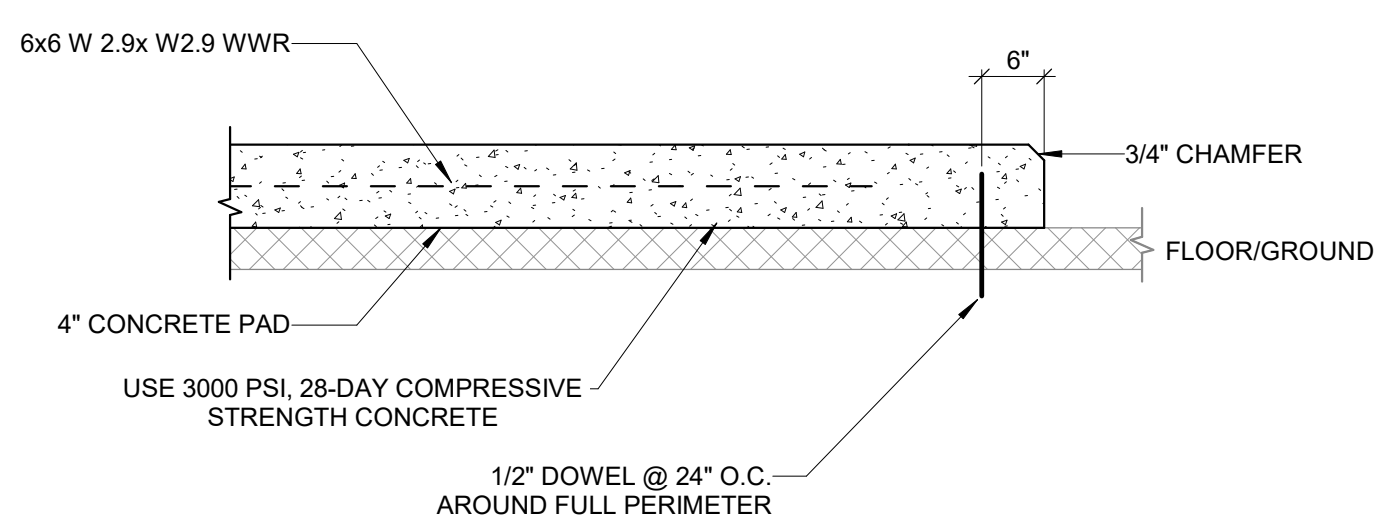
3 ROOF CURB CAP DETAIL

M001



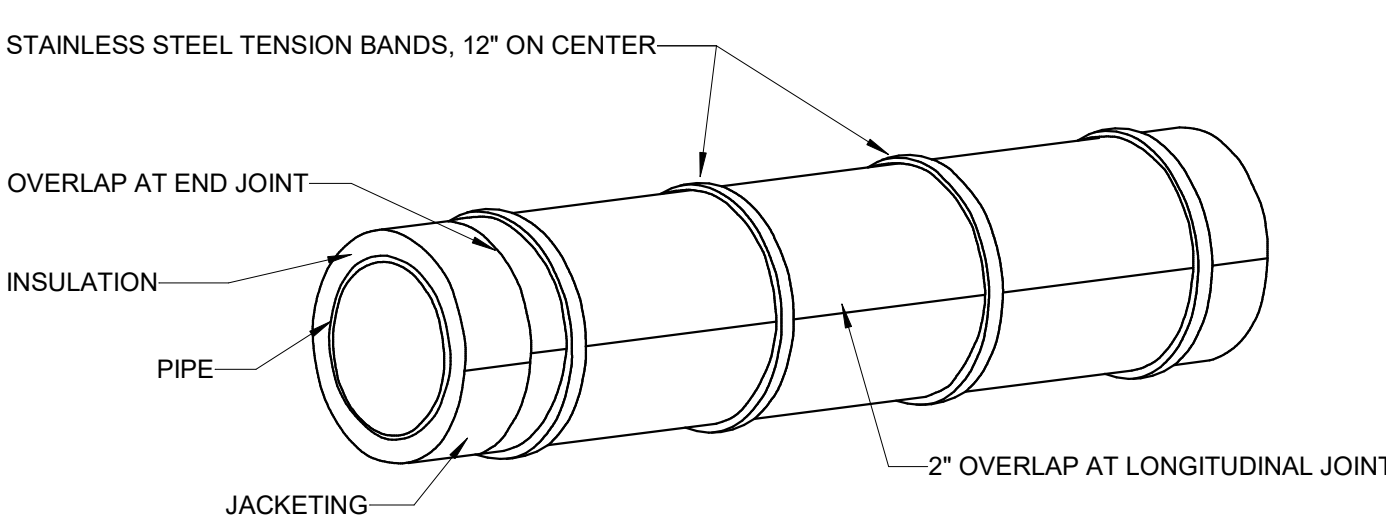
6 FRENCH DRAIN - FROM BUILDING

M001

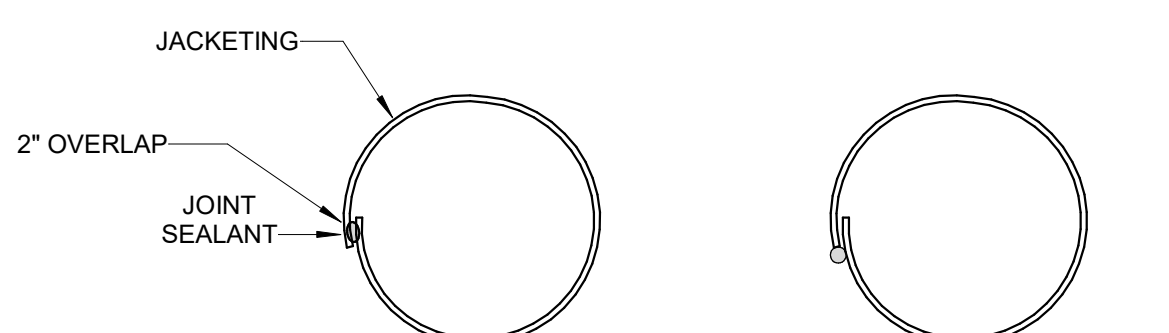


1 EQUIPMENT PAD - TYPICAL DETAIL

M001



NOTES: NO FASTENERS OF ANY KIND MAY PUNCTURE JACKETING.

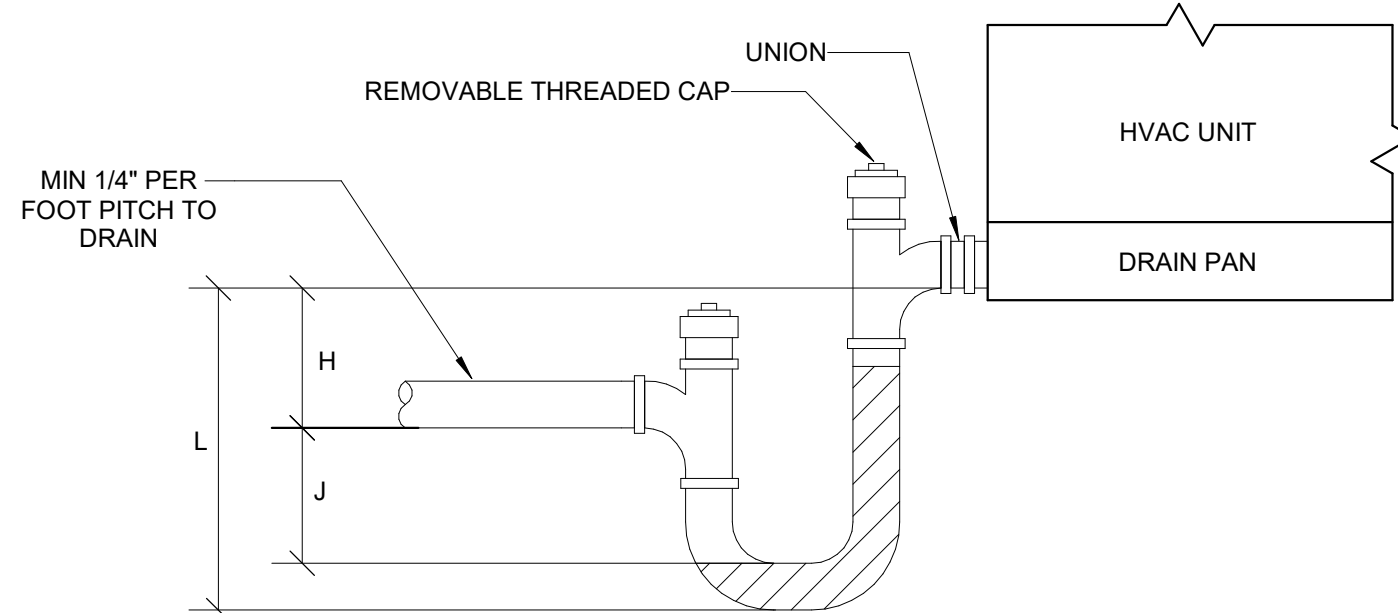


CORRECT APPLICATION OF JACKETING JOINT SEALANT - BETWEEN THE PIECES OF METAL IN THE JOINT.
 INCORRECT APPLICATION OF JACKETING JOINT SEALANT - ON OUTER LIP OF METAL IN THE JOINT.

NOTES: JACKETING SEALANT SHALL BE APPLIED IN THE JACKETING JOINT BETWEEN THE OVERLAPPING PIECES OF METAL AND NOT AS A BEAD OF CAULK ON THE EXTERIOR LIP OF THE JACKETING JOINT.

4 EXTERIOR PIPING JACKETING DETAIL

M001



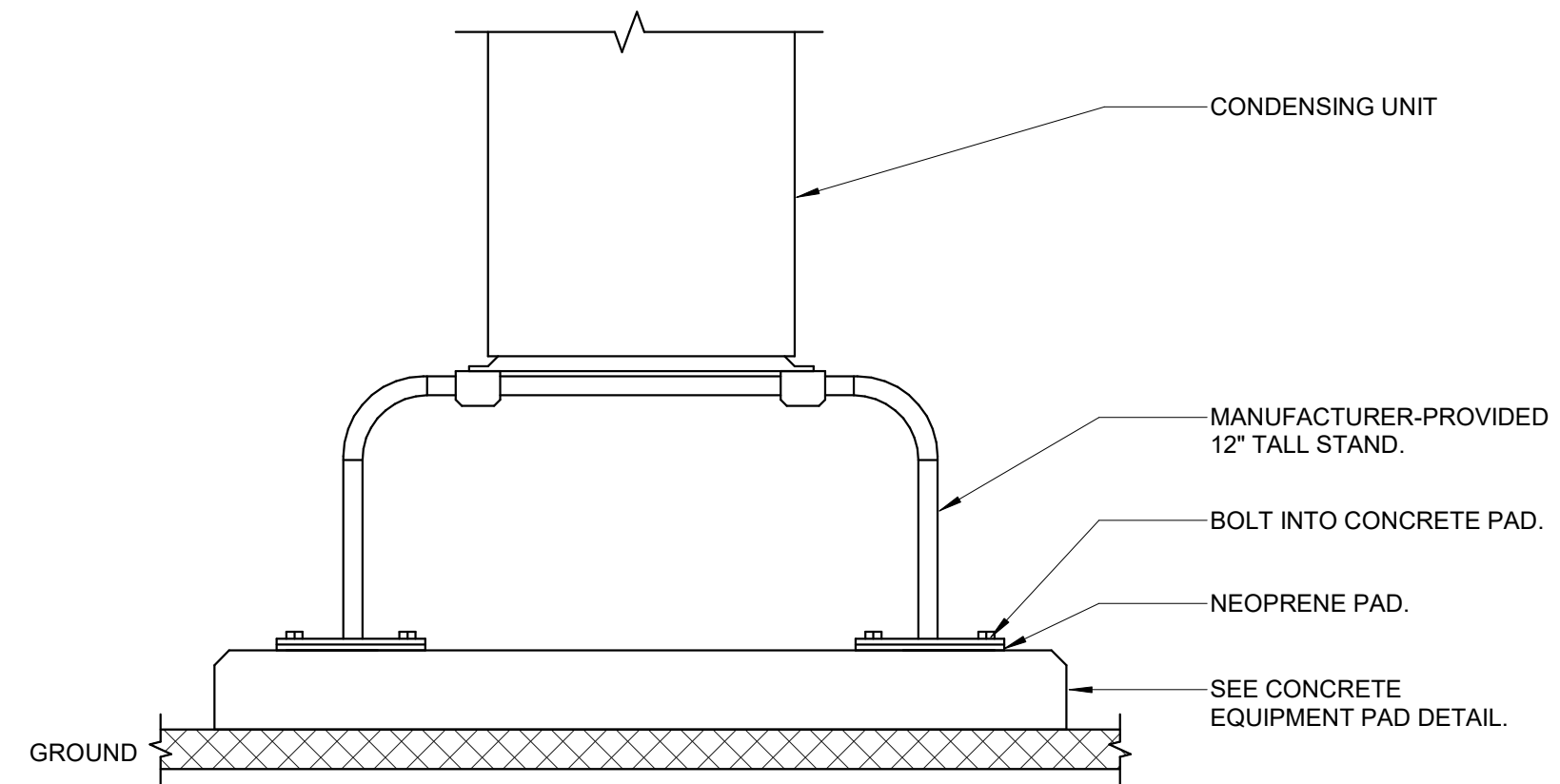
NOTES:
 1. PROVIDE CONDENSATE TRAP FOR ALL COOLING COILS.
 2. CONDENSATE PIPE SIZE SHOULD MATCH UNIT CONDENSATE CONNECTION SIZE.

DRAIN PAN TRAPPING FOR SECTION UNDER NEGATIVE PRESSURE
 $L = H + J + \text{PIPE DIAMETER}$ WHERE:
 $H = 1$ INCH FOR EACH INCH OF NEGATIVE PRESSURE PLUS 1 INCH
 $J = 1/2$ H
 DRAIN PAN TRAPPING FOR SECTION UNDER POSITIVE PRESSURE
 $L = H + J + \text{PIPE DIAMETER}$ WHERE:
 $H = 1/2$ INCH (MINIMUM)
 $J = 1/2$ INCH PLUS THE UNIT POSITIVE STATIC PRESSURE AT COIL DISCHARGE (LOADED FILTERS)

7 CONDENSATE TRAP PIPING

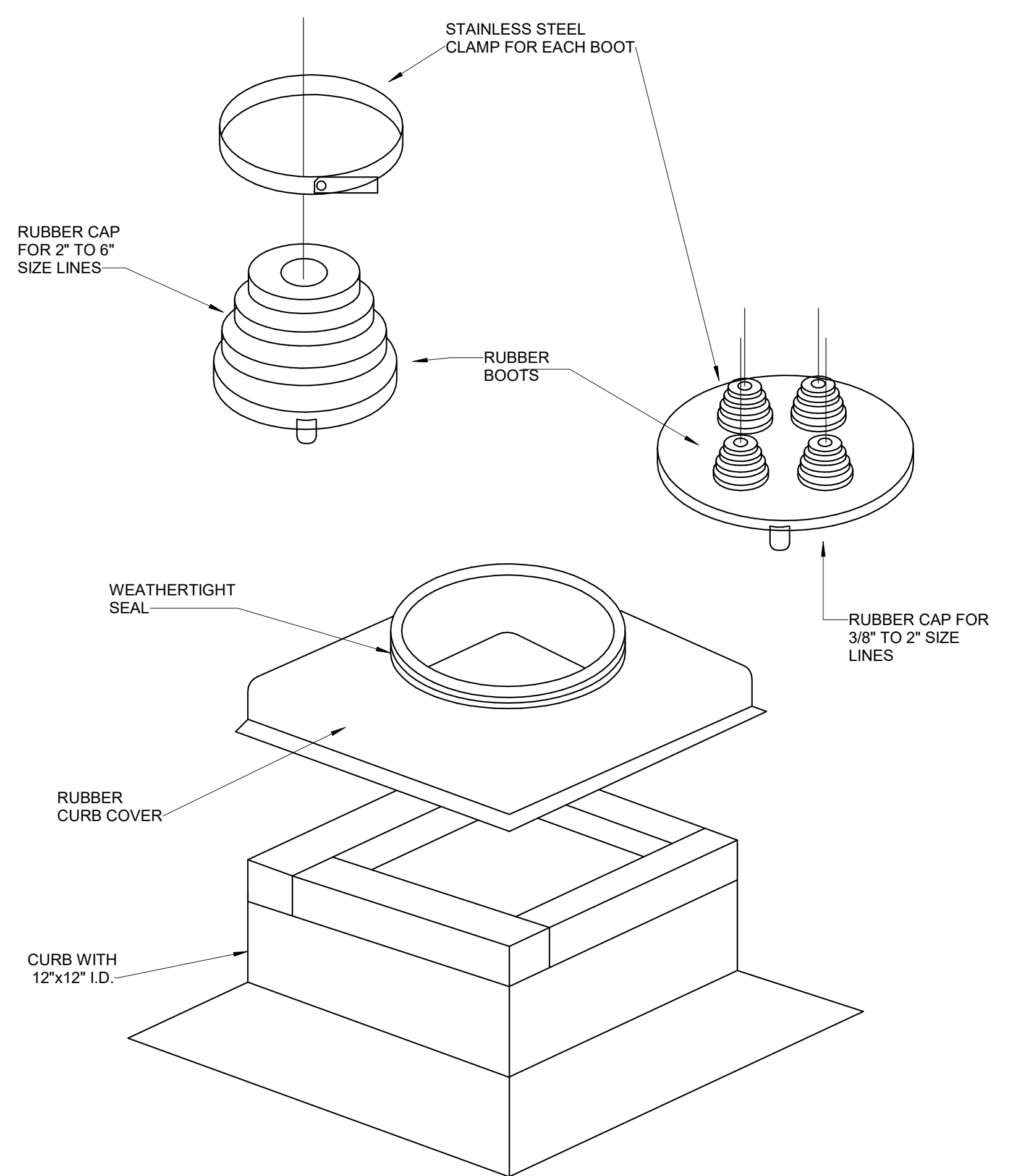
M001

NOTE: ROOF-MOUNTED UNITS SHALL NOT PENETRATE THE ROOF MEMBRANE. BALLAST THE UNIT AS REQUIRED TO PREVENT WIND-TIPPING AS DETERMINED BY CALCULATIONS PER THE REQUIREMENTS OF LOCAL CODE.



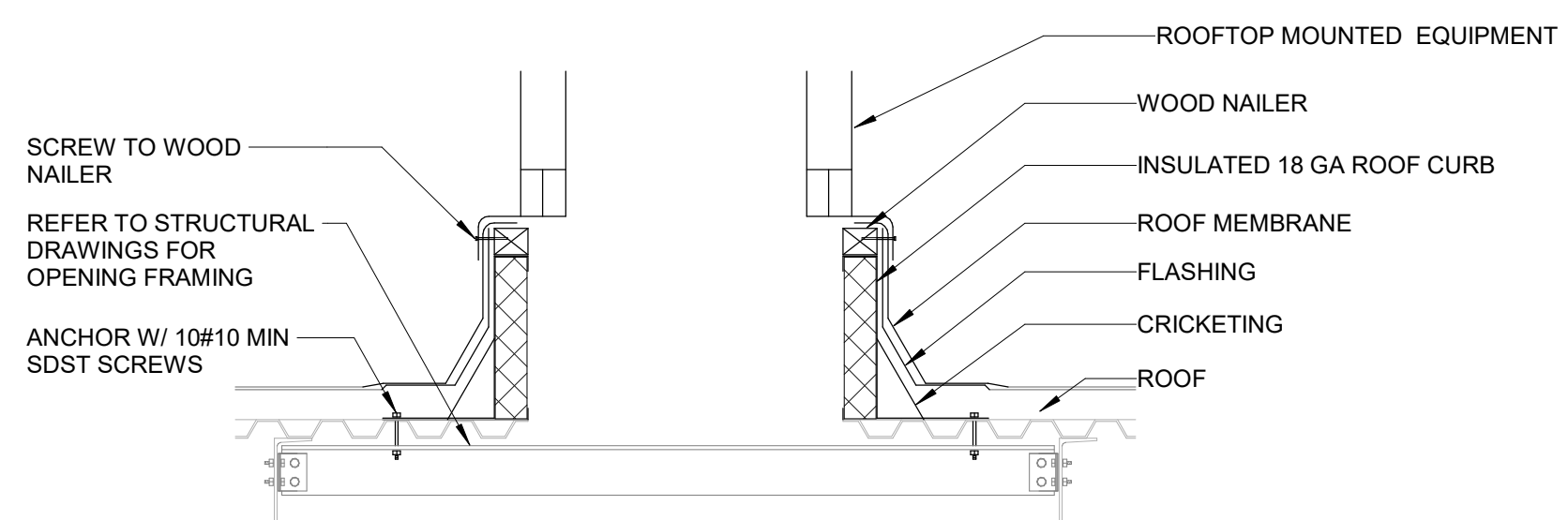
2 CONDENSING UNIT STAND DETAIL

M001



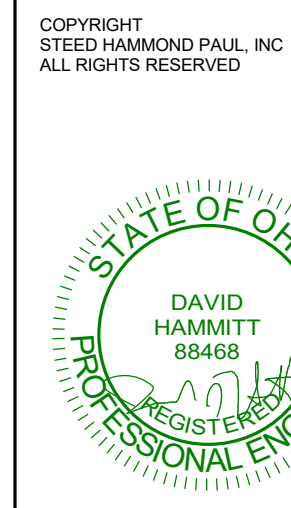
5 REFRIGERANT PIPING PIPE ROOF PENETRATION DETAIL

M001



8 ROOF MOUNTED EQUIPMENT DETAIL

M001



SHP

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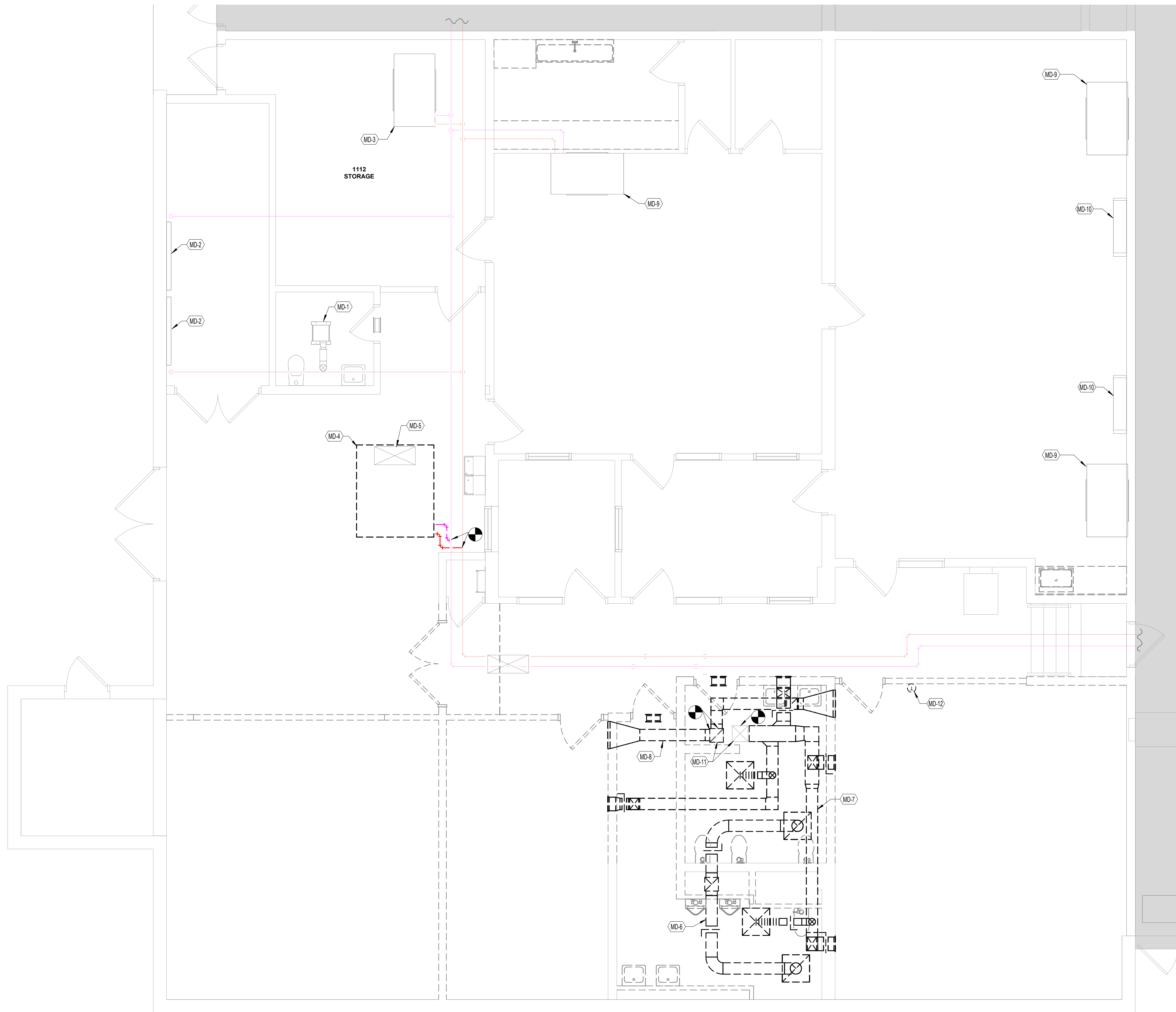
ISSUANCES

04-08-24 90% CD
 A 04-15-24 BID/PERMIT SET

MECHANICAL DETAILS

COMM NO. 2024006.01

M001



4 HVAC DEMO - AG LAB
M010 1/4" = 1'-0"

GENERAL HVAC DEMOLITION NOTES:

- A. DRAWING IS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CM/DC OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.
- B. DUCTWORK, PIPING, ACCESSORIES, EQUIPMENT, AND ALL OTHER HVAC SCOPE DENOTED BY DASHED LINE TYPE INDICATES DEMOLITION SCOPE.
- C. DUCTWORK, PIPING, ACCESSORIES, EQUIPMENT, AND ALL OTHER HVAC SCOPE DENOTED BY GRAY LINE TYPE INDICATES SCOPE THAT IS EXISTING TO REMAIN.
- D. DEMOLISH ALL EXISTING HVAC NOT REUSED IN NEW DESIGN OR NOTED TO BE ABANDONED IN PLACE.

KEYNOTES

- MD-1 BATHROOM EXHAUST IS EXISTING TO REMAIN.
- MD-2 HOT WATER CONVECTOR IS EXISTING TO REMAIN.
- MD-3 CABINET HEATER IS EXISTING TO REMAIN.
- MD-4 REMOVE EXISTING UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING ASSOCIATED ELECTRICAL, CONTROLS, SUPPORTS, AND PIPING BACK TO MAINS. CAP AT MAINS.
- MD-5 CAP EXISTING OUTDOOR AIR DUCT AT APPROXIMATELY 2 FT BELOW THE DECK TO ALLOW FOR CONNECTION TO NEW.
- MD-6 REMOVE EXISTING BATHROOM EXHAUST AIR SYSTEM IN ITS ENTIRETY.
- MD-7 REMOVE EXISTING SUPPLY DUCT SYSTEM BACK TO VERTICAL RISER BENEATH RTU.
- MD-8 REMOVE EXISTING RETURN DUCT SYSTEM BACK TO VERTICAL RISER BENEATH RTU.
- MD-9 UNIT VENTILATOR IS EXISTING TO REMAIN.
- MD-10 HIGH-WALL COOLING UNITS ARE EXISTING TO REMAIN.
- MD-11 VERTICAL DUCT BELOW RTU IS EXISTING TO REMAIN AND SHALL BE REUSED IN NEW.
- MD-12 EXISTING THERMOSTAT SHALL BE SALVAGED AND RELOCATED PER NEW PLAN.



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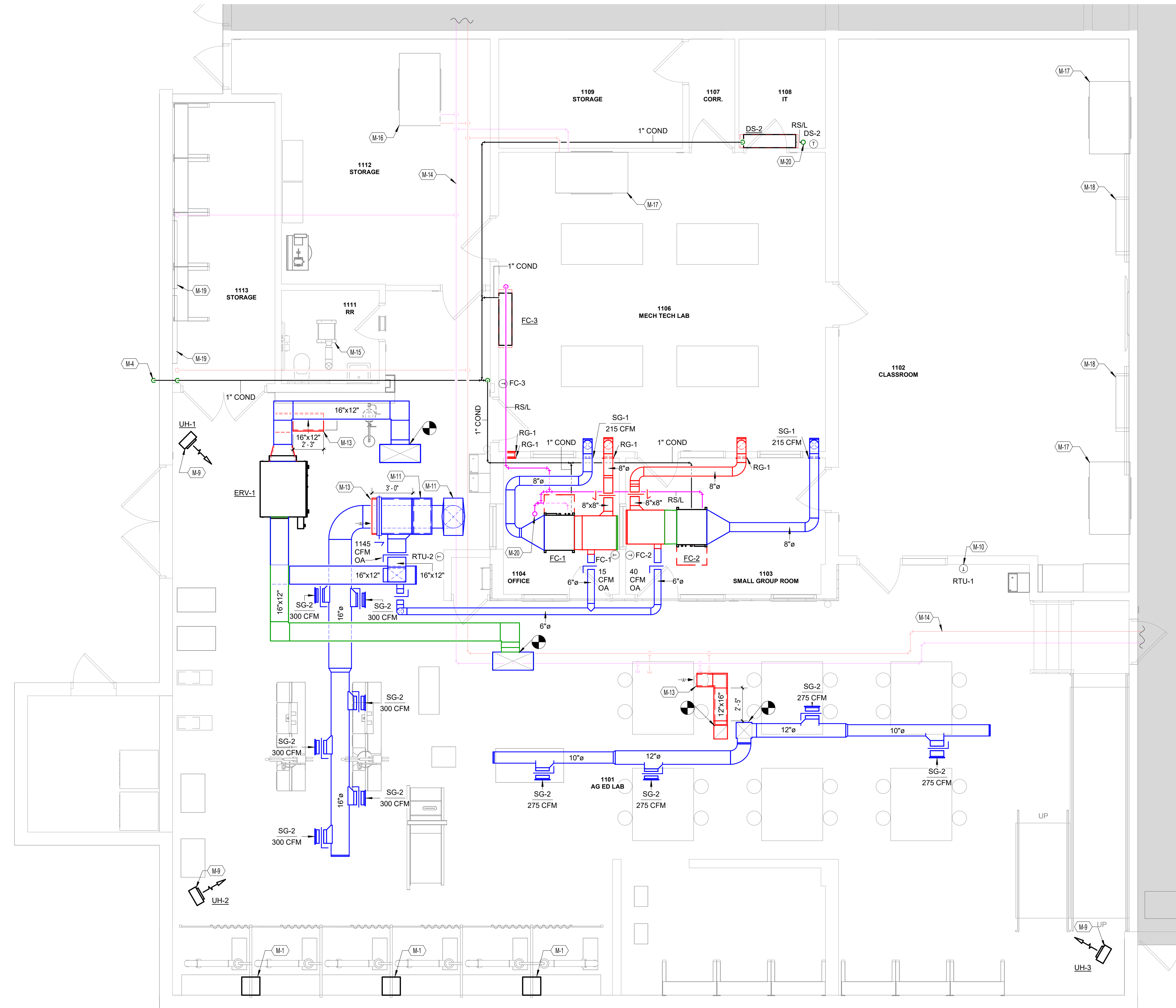
ISSUANCES

04-08-24	90% CD
A	04-15-24 BID/PERMIT SET

MECHANICAL DEMOLITION PLAN

COMM NO. 2024006.01

M010



1 AG LAB DUCTWORK PLAN
M200 1/4" = 1'-0"

GENERAL DUCT PLAN NOTES:

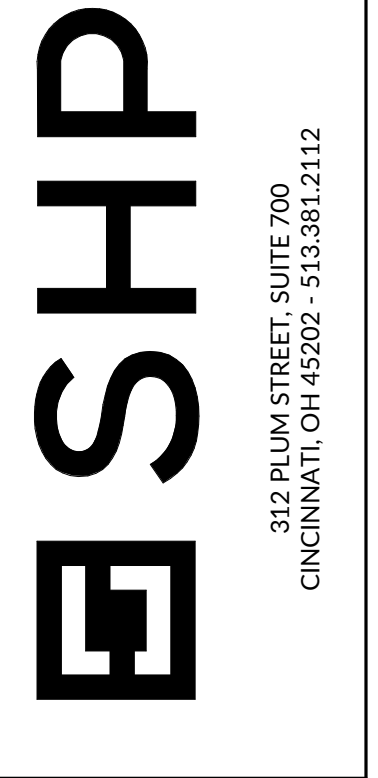
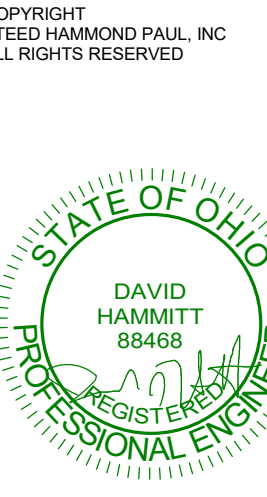
- DUCTS SERVING DIFFUSERS AND GRILLES ARE TO BE THE SAME SIZE AS DIFFUSER NECK SIZE OR GRILLE FACE UNLESS NOTED OTHERWISE.
- AIR TRANSFER DUCTS ARE 14" X 14" UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE ADDITIONAL TRANSFER OPENINGS ABOVE CEILING AS NEEDED FOR AIR RETURN.
- DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT.
- PROVIDE VOLUME CONTROL DAMPERS IN RUN-OUT DUCT TO ALL SUPPLY AIR DEVICES.

GENERAL PIPING PLAN NOTES:

- DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
- CONDENSATE PIPING IS 1" UNLESS NOTED OTHERWISE.

KEYNOTES:

- M-1 DUAL ARM WALL MOUNTED FUME EXTRACTION UNIT EQUAL TO K1654 PRISM BY LINCOLN ELECTRIC. INTEGRAL MERV 14 FILTER FOR AIR RECIRCULATION. TELESCOPIC. COUNTERWEIGHT. 46 FT EXTRACTION ARMS. (2) 1 HP 120/1 FANS WITH STARTER/OVERLOAD SWITCH BY MANUFACTURER. 3-YR WARRANTY. PROVIDE ATTIC STOCK OF 10 REPLACEMENT FILTERS.
- M-4 ROUTE CONDENSATE PIPING THROUGH EXTERIOR WALL AT 12" ABOVE GRADE AND ELBOW DOWN INTO FRENCH DRAIN.
- M-9 WALL MOUNT AT 8 FT AFF.
- M-10 RELOCATE EXISTING THERMOSTAT TO THIS LOCATION. EXTEND WIRING AS REQUIRED.
- M-11 DUCT UP TO NEW ROOFTOP UNIT.
- M-13 INSTALL LINING ON RETURN DUCT FROM UNIT TO OPENING. INSTALL 1/2" X 1/2" HARDWARE CLOTH TO PROTECT OPENING.
- M-14 EXISTING HOT WATER PIPING MAINS SHOWN FOR REFERENCE.
- M-15 EXISTING EXHAUST TO REMAIN.
- M-16 CABINET HEATER IS EXISTING TO REMAIN.
- M-17 UNIT VENTILATOR IS EXISTING TO REMAIN.
- M-18 HIGH-WALL COOLING UNITS ARE EXISTING TO REMAIN.
- M-19 HOT WATER CONVECTOR IS EXISTING TO REMAIN.
- M-20 REFRIGERANT PIPING UP THROUGH ROOF CURB.



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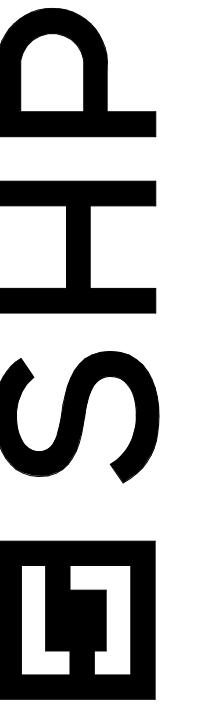
ISSUANCES

04-08-24	10% CD
A	04-15-24 (BO) PERMIT SET

**MECHANICAL
FLOOR PLANS
- AG LAB**

COMM NO. 2024006.01

M200



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GENERAL DUCT PLAN NOTES:

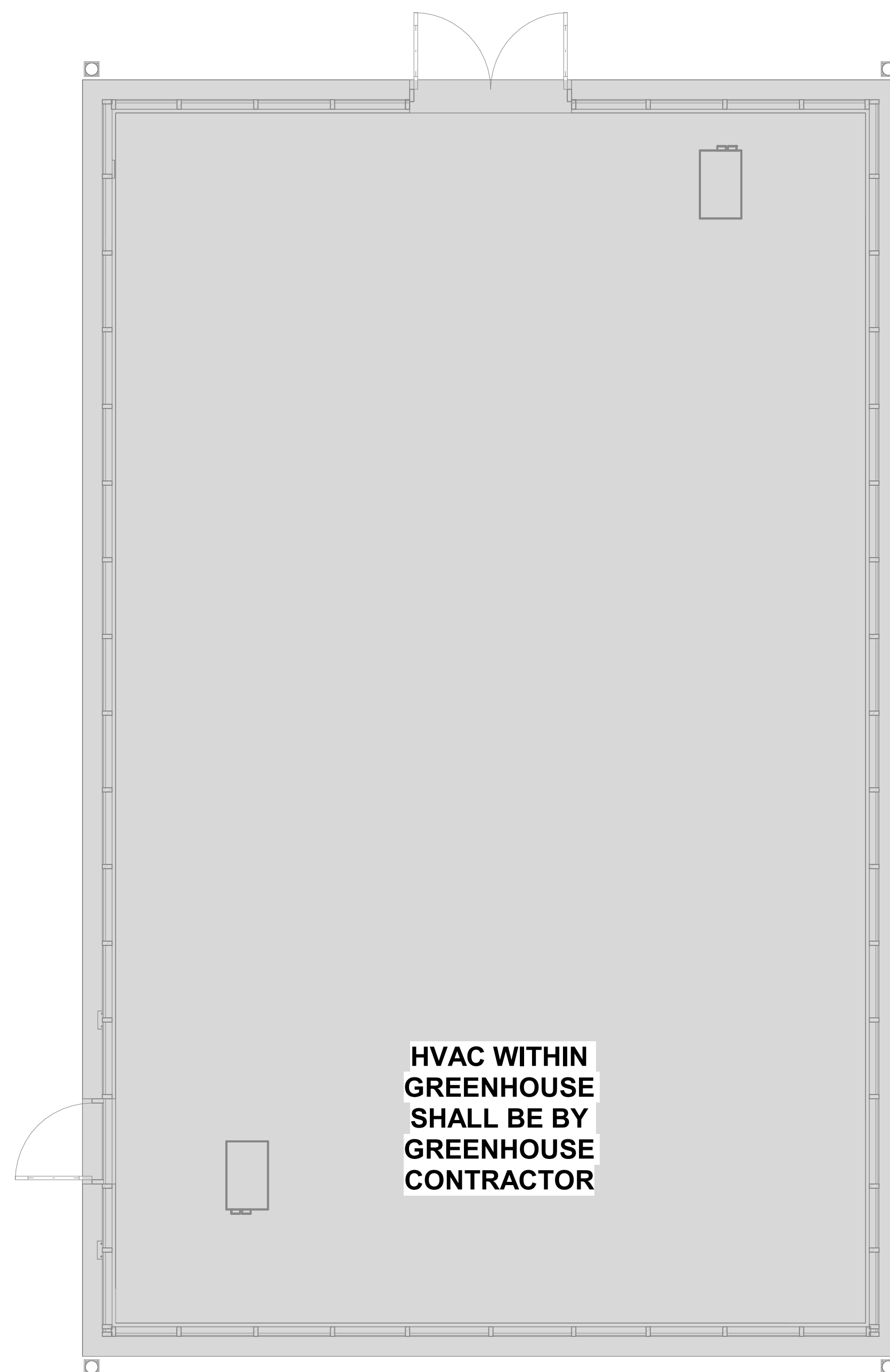
- A. DUCTS SERVING DIFFUSERS AND GRILLES ARE TO BE THE SAME SIZE AS DIFFUSER NECK SIZE OR GRILLE FACE UNLESS NOTED OTHERWISE.
- B. AIR TRANSFER DUCTS ARE 14" X 14" UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE ADDITIONAL TRANSFER OPENINGS ABOVE CEILING AS NEEDED FOR AIR RETURN.
- C. DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT.
- D. PROVIDE VOLUME CONTROL DAMPERS IN RUN-OUT DUCT TO ALL SUPPLY AIR DEVICES.

GENERAL PIPING PLAN NOTES:

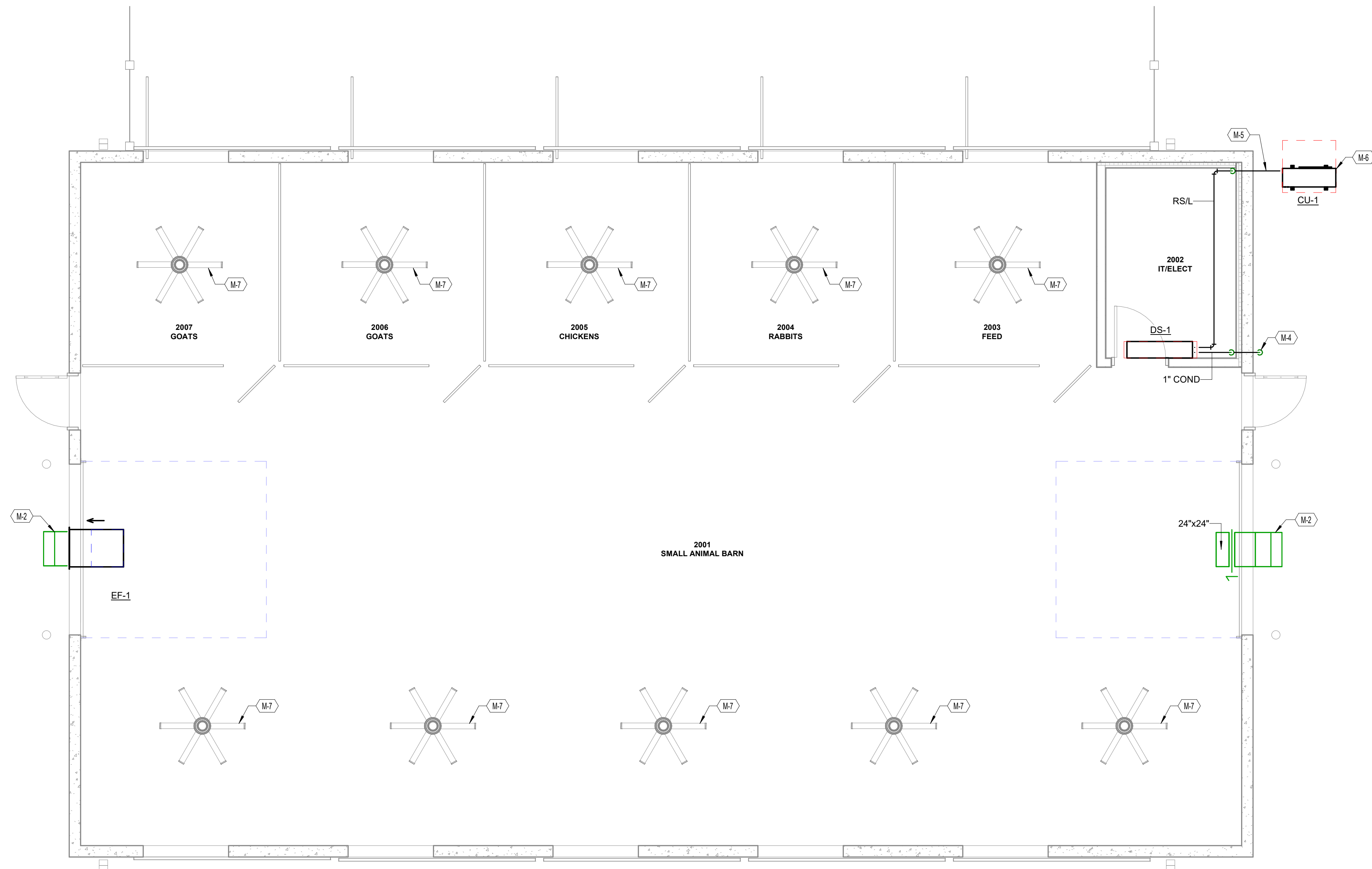
- A. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
- B. CONDENSATE PIPING IS 1" UNLESS NOTED OTHERWISE.

KEYNOTES:

- M-2 45 DEGREE WEATHERHOOD WITH BIRDSCREEN OVER OPENING.
- M-4 ROUTE CONDENSATE PIPING THROUGH EXTERIOR WALL AT 12" ABOVE GRADE AND ELBOW DOWN INTO FRENCH DRAIN.
- M-5 REFRIGERANT PIPING THROUGH EXTERIOR WALL AT 12" ABOVE GRADE.
- M-6 CONDENSING UNIT ON EQUIPMENT PAD.
- M-7 CEILING FAN EQUAL TO QMARK DOE 48" FAN, 120/1. TO BE CONTROLLED BY WALL SWITCH.



1 GREENHOUSE DUCTWORK PLAN
M201 1/4" = 1'-0"



2 BARN DUCTWORK PLAN
M201 1/4" = 1'-0"

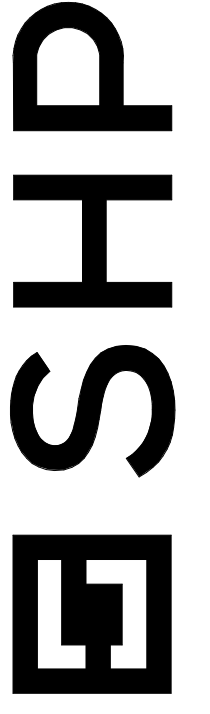
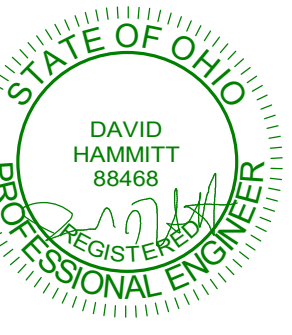
ISSUANCES

NO.	DATE	DESCRIPTION
A	04-18-24	100% SET
	04-08-24	90% CD

MECHANICAL FLOOR PLANS
- BARN AND GREENHOUSE

COMM NO. 2024006.01

M201

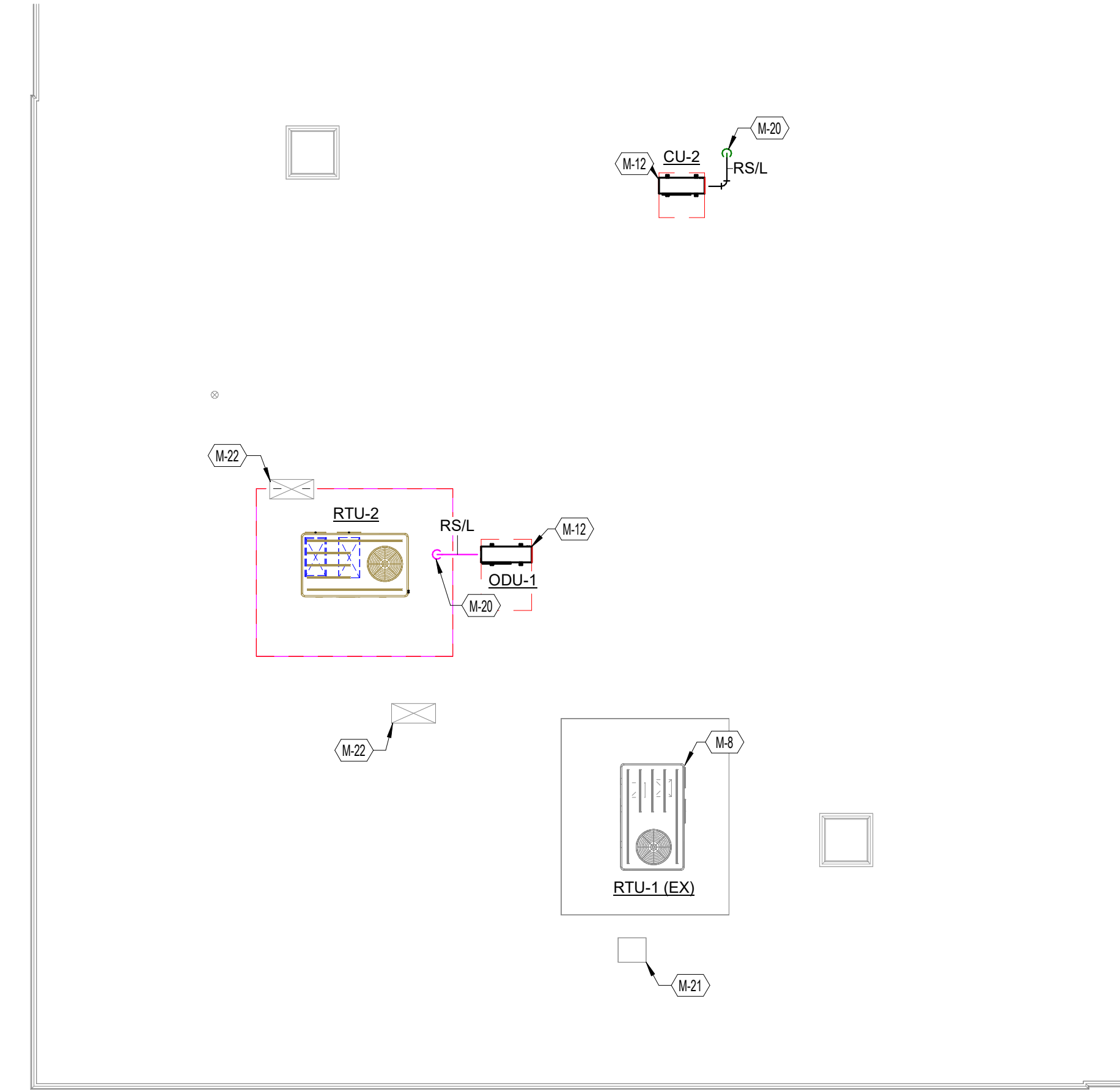


332 PLUM STREET, SUITE 700
CINCINNATI, OH 45202-5133, 513.981.2112

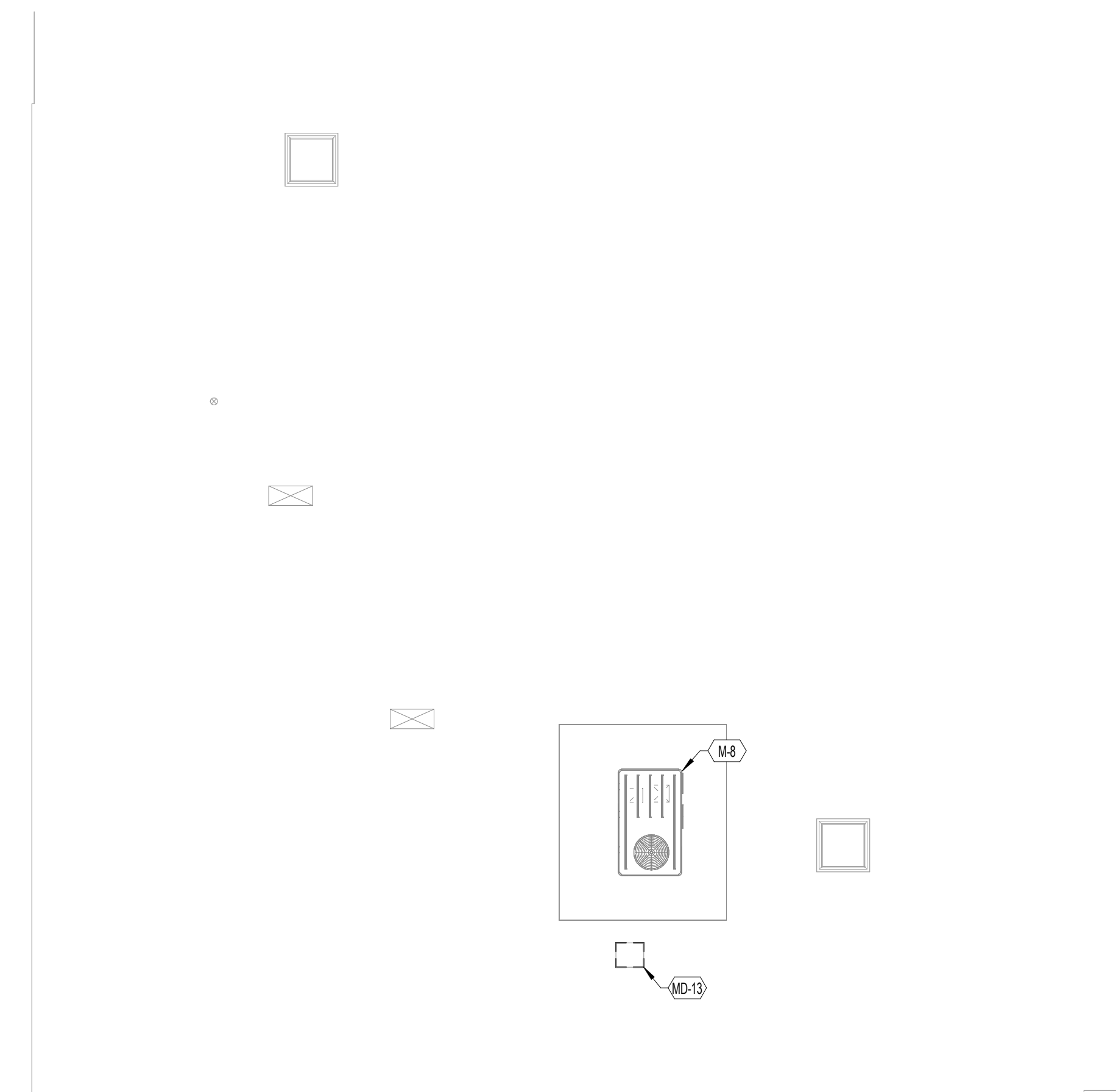
KEYNOTES

- M-8 EXISTING ROOFTOP UNIT, RTU-1, HAS 475 CFM OUTSIDE AIR
- M-12 MOUNT ON STAND BY MANUFACTURER.
- M-20 REFRIGERANT PIPING UP THROUGH ROOF CURB.
- M-21 CAP EXISTING CURB PER DETAIL.
- M-22 EXISTING GRAVITY VENTILATOR TO REMAIN.
- MD-13 REMOVE EXHAUST FAN AND CAP OPENING.

1 AG LAB ROOF HVAC
M202 1/8" = 1'-0"



2 AG LAB ROOF DEMO PLAN
M202 1/8" = 1'-0"



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ISSUANCES

04-09-24	90% CD	
A	04-16-24	BID/PERMIT SET

**ROOF
DUCTWORK
PLAN**

COMM NO. 2024006.01

M202

WIRING DEVICE LEGEND

Table containing wiring symbols for Duplex, Junction Box, Control Device, Ground Fault, and Projector Receptacle. Includes descriptions and mounting heights.

FIRE ALARM LEGEND

Table containing fire alarm symbols for Notification Appliances, Initiating Devices, Detector, and Damper. Includes descriptions and designations.

TECHNOLOGY SYMBOL LEGEND

Table containing technology symbols for Data Drop, Digital Clock, Security Camera, Television, Cable Tray, and Conduit Sleeve. Includes descriptions and mounting heights.

COMMUNICATION SYMBOL LEGEND

Table containing communication symbols for Public Address Speaker and Ground Recessed Pullbox. Includes descriptions and mounting heights.

ACCESS CONTROL SYMBOL LEGEND

Table containing access control symbols for Credential Reader, Magnetic Door Hold Open, Door Position Switch, Door Release Button, Electronic Latch, Fire Alarm System, Handicap Actuator, Handicap Operator, Emergency Lockdown Button, and Request to Exit. Includes descriptions and mounting heights.

DRAFTING SYMBOL LEGEND

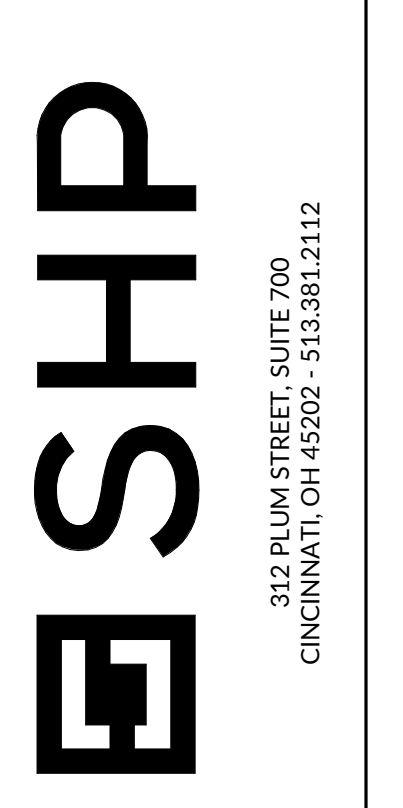
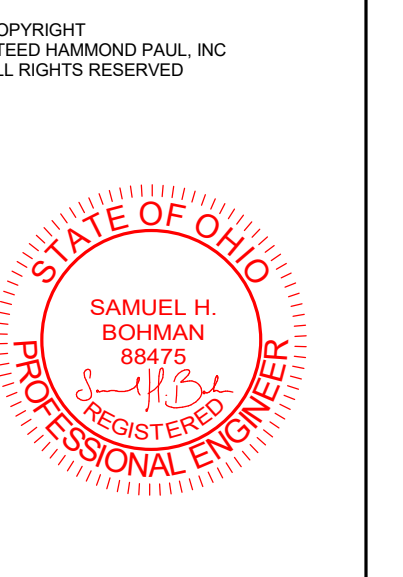
Table containing drafting symbols for Drawing Key Note and Detail Callout. Includes descriptions and sheet references.

26-ELECTRICAL SHEET LIST

Table listing electrical sheet numbers (E000-E700) and their corresponding sheet names, including Electrical Legends, Demolition Plans, Lighting Plans, Power Plans, Fire Alarm Plans, and Site Plans.

ABBREVIATION LEGEND

Table listing common electrical abbreviations and notations, such as AFF (Above Finished Floor), GFCI (Ground Fault Circuit Interrupter), and others.



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WIRING METHODS SCHEDULE

Table detailing wiring methods for various applications (Interior/Exterior) and locations (Concealed, Exposed, Barn, Greenhouse). Columns include Application, Location, Allowable Conduit and Raceway Type, Outlet Boxes, Conduit Bodies, Enclosure Type, Fasteners/Supports, and Conduit and Raceway Notes.

CONDUCTOR AND CONDUIT COLOR CODING

Table showing conductor and conduit color coding by application: Phase A (Black), Phase B (Red), Phase C (Blue), Neutral (White), Ground (Green), 120V Control (Red), 24V Control (Blue), and External Source (Yellow).

Table listing abbreviations for materials used in conduits and raceways: CA (Cast Aluminum), EMT (Electrical Metallic Tubing), FMC (Flexible Metallic Conduit), GALV (Galvanized Malleable Iron), GMI (Galvanized Intermediate Metal Conduit), IMC (Liquid Tight Flexible Metallic Conduit), MC (Metal Clad Cable), PVC 40 (Polyvinyl Chloride), RNC (Rigid Nonmetallic Conduit), RSC (Rigid Steel Conduit), SM (Sheet Metal), and ZP (Zinc Plated).

- NOTES
A) UNFINISHED SPACES INCLUDE DEDICATED MECHANICAL, ELECTRICAL, TECHNOLOGY ROOMS ONLY. UNLESS OTHERWISE INDICATED ON DRAWINGS, TREAT ALL OTHER SPACES AS FINISHED SPACES.
B) CONDUITS FOR FEEDERS WHICH ARE SCHEDULED FOR UNDER SLAB INSTALLATION SHALL BE LOCATED A MINIMUM OF 2" BELOW FINISHED FLOOR. COORDINATE WITH ALL OTHER DISCIPLINES.
C) CONDUITS FOR BRANCH CIRCUITS NOT PERMITTED UNDER SLAB, UNLESS OTHERWISE INDICATED ON DRAWINGS.

GENERAL NOTES: - APPLIES TO ALL ELECTRICAL DRAWINGS

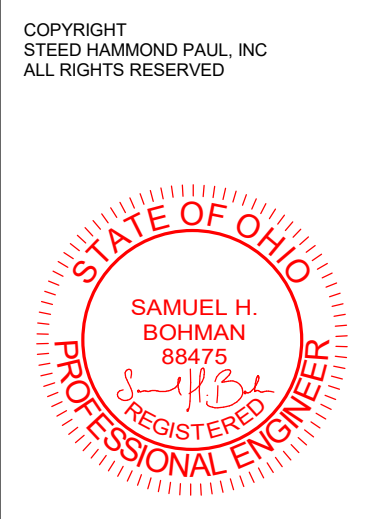
- GENERAL NOTES: - APPLIES TO ALL ELECTRICAL DRAWINGS
A. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL, THERMOSTAT. REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF THESE DEVICES.
B. EC MAY COMBINE MULTIPLE CIRCUITS INTO HOME RUNS. NO MORE THAN 3 CIRCUITS SHALL BE IN EACH HOME RUN CONDUIT, AND THE WIRE MUST BE DERATED IN ACCORDANCE WITH NEC. THESE CIRCUITS SHALL BE REQUIRED TO BE ON SEPARATE PHASES (A,B,C).
C. EC SHALL UPSIZE WIRE IN LONG RUNS ACCORDING TO THE WIRE SIZING TABLE SHOWN BELOW:
WIRE SIZING CHART
RUN LENGTH | CIRCUIT BREAKER
120V, 277V, 20A, 30A, 40A
000-100' | 000-200' | 12 | 10 | 8
101-150' | 201-300' | 10 | 8 | 6
151-200' | 301-450' | 8 | 6 | 4
D. WHERE ELECTRICAL LOAD ON A CIRCUIT IS OVER 20 AMPERES, EACH CIRCUIT SHALL BE RUN IN A SEPARATE CONDUIT TO THE PANELBOARD.
E. ALL VAV BOXES, EXHAUST FANS, MOTORS, MISC. HVAC EQUIPMENT, APPLIANCES, ETC. INDICATED ON THESE DRAWINGS SHALL HAVE A MOTOR RATED SWITCH LOCATED NEAR THE MOTOR FOR SERVICING. PROVIDE DISCONNECTING MEANS AS REQUIRED BY THE NEC.
F. ALL PANELBOARDS SHALL BE INSTALLED 12" AFF TO THE TOP OF THE PANEL. PROVIDE 10% SPARE CONDUITS (MINIMUM OF 4) TO ABOVE THE CEILING FOR FUTURE.
G. ALL DATA OUTLETS REQUIRE A MINIMUM OF 1" CONDUIT STUB TO ABOVE CEILING. PROVIDE A 3-1/2" DEEP BOX MINIMUM FOR ALL DATA OUTLETS.
H. HEIGHT DIMENSIONS SHOWN ON THIS PLAN ARE MEASURED FROM THE BOTTOM OF THE DEVICE. HORIZONTAL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE OR GROUP OF DEVICES WHICH THE DIMENSION PERTAINS TO.
I. GROUPINGS OF DEVICES LOCATED ON THE SAME WALL AT THE SAME ELEVATION SHALL BE PLACED SO THAT THE HORIZONTAL DISTANCE BETWEEN DEVICES IS NO GREATER THAN 4". PROVIDE ADDITIONAL SUPPORTS AS REQUIRED.
J. FOR LIGHT FIXTURE MOUNTING DETAILS, SEE LIGHTING FIXTURE SCHEDULE, ON SHEET E001.
K. CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES TO PRICE AND SCHEDULE AFFECTING ANY TRADE RESULTING FROM USE OF NON-BASIS OF DESIGN EQUIPMENT.

ISSUANCES table with columns for Date, Design, and Description. Entries include 03-01-24 DESIGN DEVELOPMENT and 04-18-24 BID/PERMIT SET.

ELECTRICAL LEGENDS

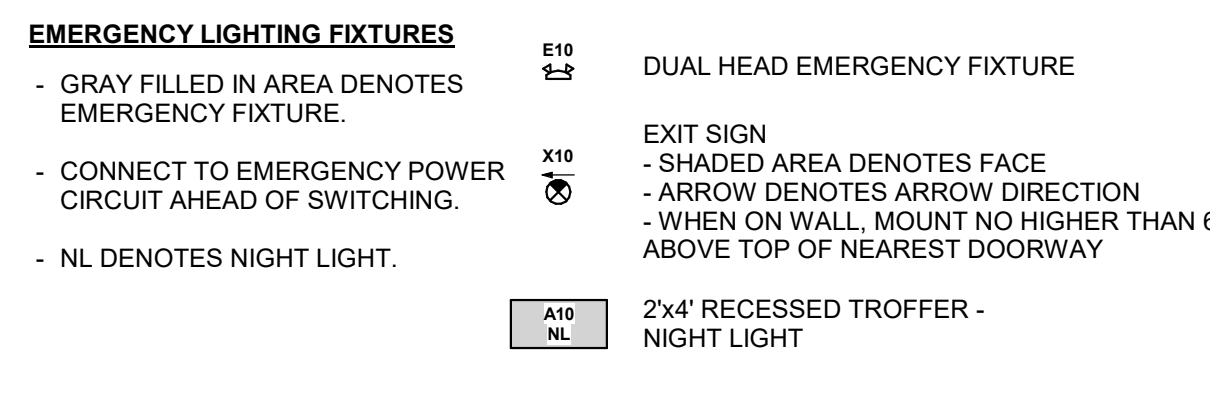
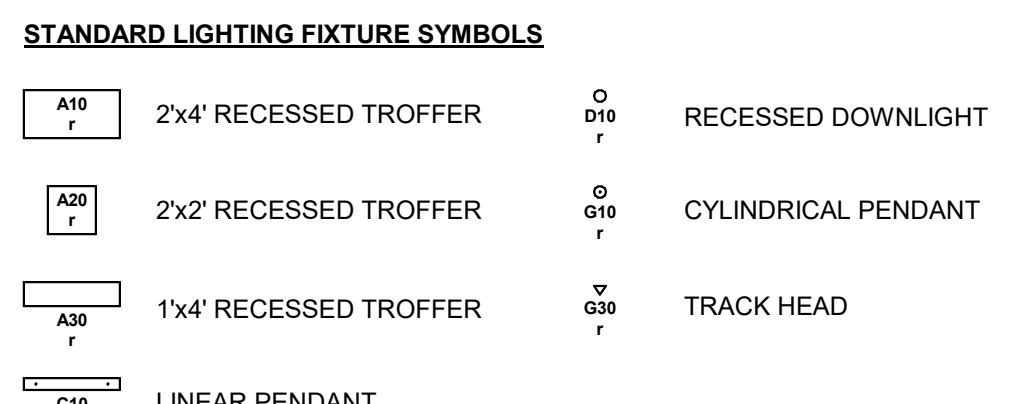
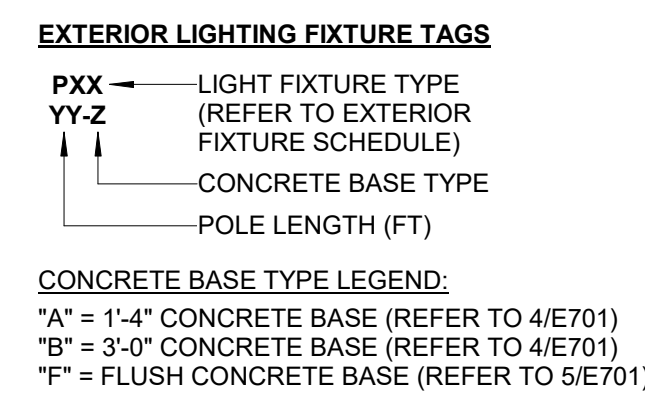
COMM NO. 2024006.01

E000



LIGHTING FIXTURE LEGEND

LIGHTING FIXTURE TAGS
- CAPITAL LETTER WITH NUMBER DENOTES FIXTURE TYPE - REFER TO LIGHT FIXTURE SCHEDULE BELOW.
- SMALL LETTER DENOTES SWITCH LEG/RELAY NUMBER - REFER TO E100 SERIES DRAWINGS FOR TYPICAL ROOM LAYOUTS.



GENERAL NOTES - LIGHTING FIXTURES
A. ALL FIXTURES MARKED 'ED' ARE EXISTING TO BE DEMOLISHED. VERIFY SERVING PANEL AND CIRCUIT NUMBER PRIOR TO DISCONNECTION. REMOVE LIGHTING BRANCH CIRCUITING ABOVE FINISHED CEILING. MAINTAIN HOME RUN CONDUIT FOR CONNECTION TO NEW FIXTURES.
B. ALL FIXTURES MARKED 'ER' WITHIN AREA OF WORK ARE EXISTING TO REMAIN.
C. ALL FIXTURES MARKED 'ERL' WITHIN AREA OF WORK ARE EXISTING TO BE RELOCATED. FIXTURES SHALL BE CLEANED AND RELAMPED.
D. REFER TO LIGHTING CONTROL SCHEMATICS AND LIGHTING CIRCUIT SCHEDULES ON E500 SERIES DRAWINGS.

LIGHTING CONTROL SYMBOL LEGEND

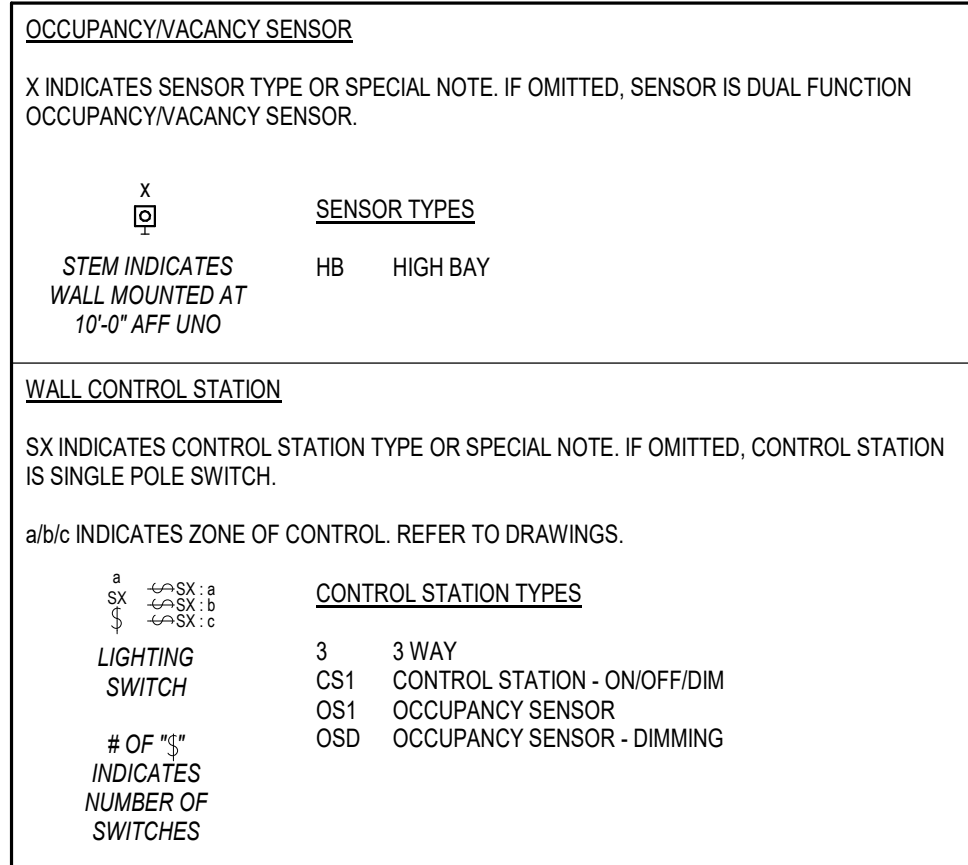


Table with columns: FIXTURE TYPE, FIXTURE BASIS OF DESIGN, ALTERNATE MANUFACTURERS, FIXTURE DESCRIPTION, LAMP, LIGHT DISTRIBUTION, MIN LUMEN OUTPUT, COLOR TEMPERATURE, MIN CRI, DRIVER, VOLTAGE, MAX WATTAGE, MOUNTING METHOD, REG OCCUPIED SPACE, TYPE COMMENTS. Includes rows for A30, A32, A33, C31, D50, E10, F20, V20, W10, X23.

POWERED EQUIPMENT LEGEND

A. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING ROUGH-IN LOCATION, CONNECTION TYPE, AND POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
B. WIRING TERMINATIONS TO EQUIPMENT SHALL BE DONE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
C. LOCATIONS OF DEVICES SHOWN ON DRAWINGS ARE SCHEMATIC IN NATURE. COORDINATE LOCATIONS WITH EQUIPMENT INSTALLER.
D. BRANCH WIRING TO EQUIPMENT SHALL BE COPPER.
E. CONNECTIONS, LOCAL DISCONNECTS, STARTERS, AND VFDs SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC.

CONTROL SYMBOLS

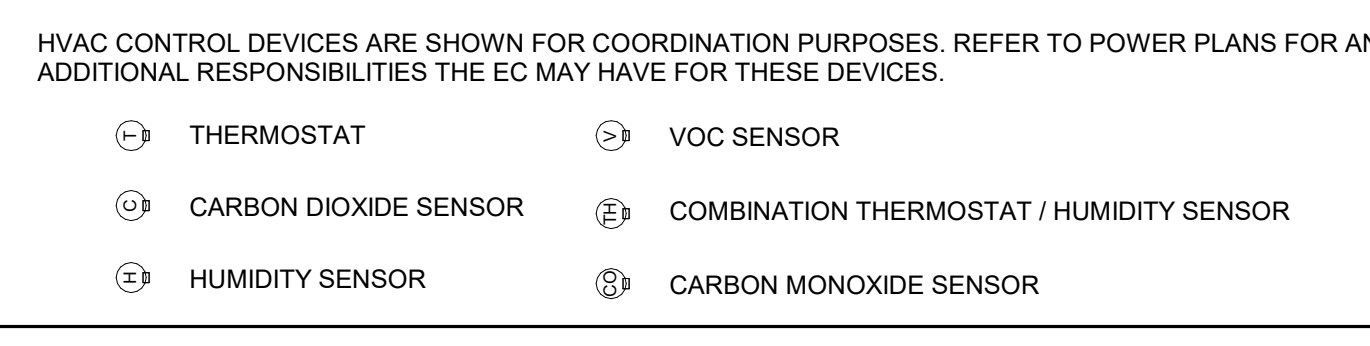


Table with columns: MARK, DESCRIPTION, SPECIFICATION SECTION, TYPE, STARTING MEANS (PROVIDED BY, INSTALLED BY, LOCATION), DISCONNECTING MEANS (PROVIDED BY, INSTALLED BY, LOCATION), ELECTRICAL (VOLTS, POLES, AMPS, OCPD, PANEL, CIRCUIT), WIRING NOTES. Includes rows for AC-1, CF, CU-1, CU-2, DS-1, DS-2, EF-1, ERV-1, FC-1, FC-2, FC-3, FE-1A, FE-1B, FE-2A, FE-2B, FE-3A, FE-3B, ODU-1, RTU-2, UH-1, UH-2, UH-3.

SKILLED TRADES LAB EQUIPMENT LEGEND

A. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING ROUGH-IN LOCATION, CONNECTION TYPE, AND POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
B. WIRING TERMINATIONS TO EQUIPMENT SHALL BE DONE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
C. LOCATIONS OF DEVICES SHOWN ON DRAWINGS ARE SCHEMATIC IN NATURE. COORDINATE LOCATIONS WITH EQUIPMENT INSTALLER.
D. COORDINATE FINAL LOCATION OF CORD AND PENDANT DROPS IN FIELD TO ALIGN WITH DEVICE ELECTRICAL CONNECTION.
E. REFER TO PLANS FOR DETAILS OF ALTERNATE 3.

Table with columns: RECEPTACLE TYPE, DEVICE TYPE, DESCRIPTION, ELECTRICAL (VOLTS, POLES, AMPS, PANEL, CIRCUIT), WIRING NOTES. Includes rows for BS, DC, DP, GR, JT, MS, PL, SN, TS, WD.

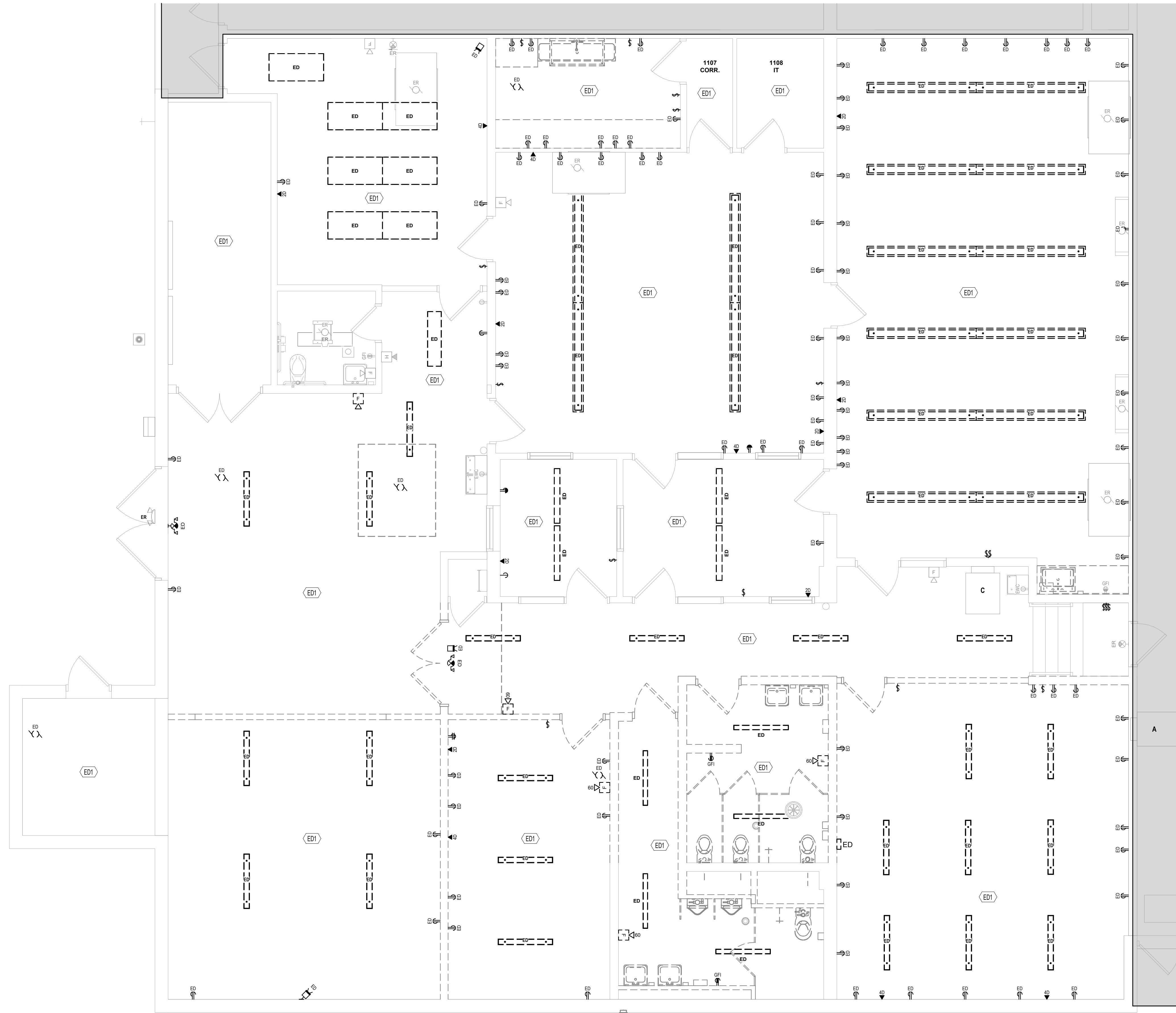
JEFFERSON TOWNSHIP LOCAL SCHOOL DISTRICT
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ISSUANCES table with columns: DATE, DESCRIPTION. Includes rows for 03-01-24 DESIGN DEVELOPMENT, 04-09-24 100% CD, 04-18-24 BID/PERMIT SET.

ELECTRICAL LEGENDS

COMM NO. 2024006.01

E001



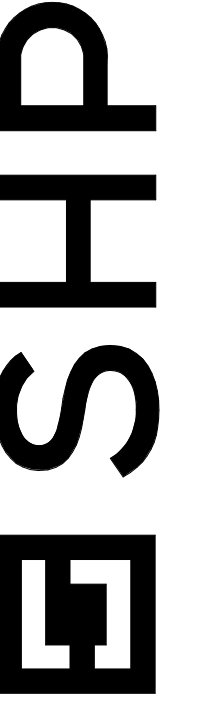
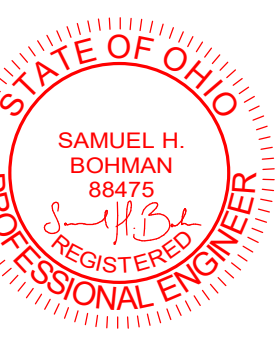
1 ELECTRICAL DEMO PLAN - AG LAB
E010 1/4" = 1'-0"

DEMOLITION DRAWING NOTES

- A. DRAWING IS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CM OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.
- B. FIXTURES, DEVICES, AND EQUIPMENT DENOTED BY BOLD, DASHED LINE TYPE OR LABELED BY ED GENERALLY INDICATES EQUIPMENT TO BE DEMOLISHED. REFER TO DRAWING NOTES AND KEYNOTES FOR FULL EXTENT OF ASSOCIATED DEMOLITION WORK AND ITEMS TO REMAIN. UNLESS OTHERWISE NOTED, REMOVE WIRING BACK TO ABOVE FINISHED CEILING. MAINTAIN CIRCUITS FOR CONNECTION TO NEW DEVICES. REFER TO E200 SERIES DRAWINGS.
- C. RECESSED RACEWAYS AND BOXES THAT ARE IN GOOD, WORKING CONDITION MAY BE MAINTAINED AND RE-USED FOR NEW CIRCUITS WHERE POSSIBLE. REFER TO NEW ELECTRICAL PLANS. PROVIDE BLANK COVERS FOR RECESSED BACKBOXES MADE AVAILABLE THROUGH DEMOLITION THAT WILL NOT BE UTILIZED FOR NEW DEVICES.
- D. SURFACE-MOUNTED RACEWAYS AND BOXES SHALL BE DEMOLISHED IN ALL LOCATIONS WITHIN AREA OF WORK.
- E. REFER TO SPECIFICATION SECTION 017419 FOR CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL REQUIREMENTS.

KEYNOTES

- ED1 ELECTRICAL EQUIPMENT, DEVICES, AND FIXTURES SHALL BE DISCONNECTED AND REMOVED ALONG WITH POWER AND CONTROLS WIRING BACK TO SOURCE. PROTECT AND MAINTAIN ALL EQUIPMENT, DEVICES, AND FIXTURES NOT DENOTED BY BOLD, DASHED LINES.



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 2625 South Union Road, Dayton, OH 45417

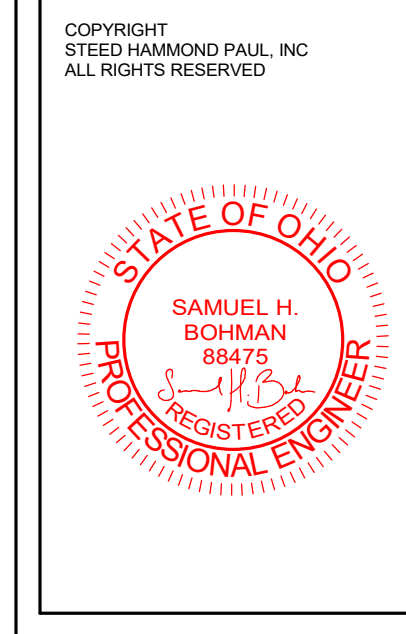
ISSUANCES

NO.	DATE	DESCRIPTION
03-01-24	DESIGN DEVELOPMENT	
04-09-24	ISSN CD	
A 04-18-24	BID/PERMIT SET	

ELECTRICAL DEMOLITION PLAN

COMM NO. 2024006.01

E010



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ISSUANCES	
03-01-24	DESIGN DEVELOPMENT
04-09-24	50% CD
A 04-16-24	BID/PERMIT SET

LIGHTING PLAN - AG LAB

COMM NO. 2024006.01

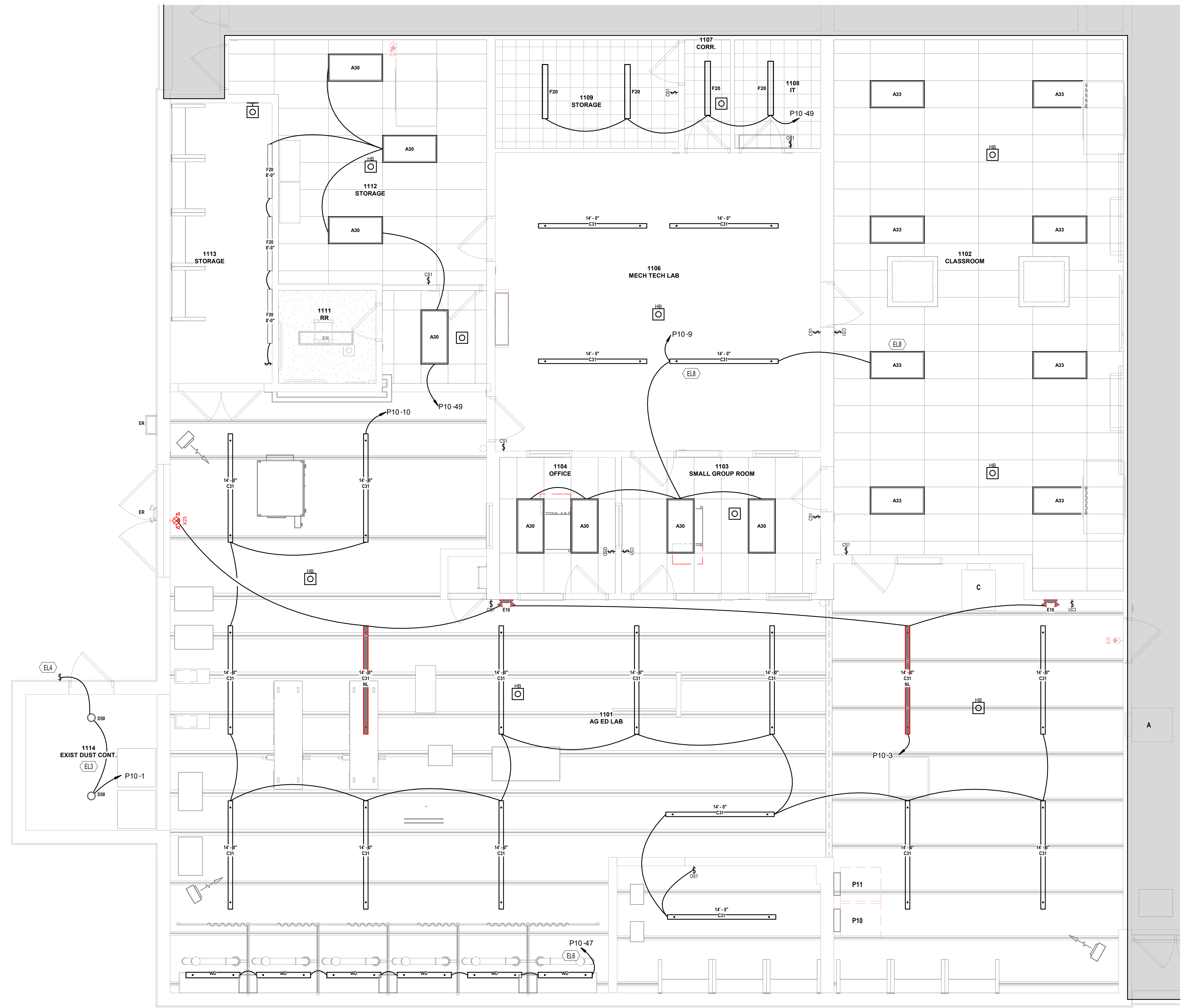
E100

GENERAL LIGHTING NOTES:

- A. EXIT SIGNS AND EMERGENCY LIGHTING SHALL BE CONNECTED AHEAD OF ALL SWITCHING.
- B. POWER FOR EXIT SIGNS MOUNTED AT LOCATIONS WITH GLAZING, SUCH AS CURTAINWALLS OR STOREFRONT, SHALL BE CONCEALED THROUGH THE MULLION.

KEYNOTES

- EL3 ALL CONDUIT ENTERING CLASS 1, DIV. 2 BOUNDARY SHALL BE SEALED IN ACCORDANCE WITH NEC 514. USE IMC WITHIN BOUNDARY. FOR FINAL CONNECTIONS TO LIGHT FIXTURES, PROVIDE LMFC.
- EL4 PROVIDE WEATHERPROOF SINGLE GANG BOX AND TOGGLE SWITCH COVER FOR LIGHT SWITCH.
- EL6 LIGHTING FIXTURES AND LIGHTING CONTROLS TO BE PROVIDED WITH WELDING BOOTHS, E.C. SHALL INSTALL LIGHTING FIXTURES AND LIGHTING CONTROLS PER MANUFACTURER'S INSTRUCTIONS.
- EL8 EXTEND WIRING TO ALL FIXTURES WITHIN ROOM AND WIRE THROUGH LOCAL LIGHTING CONTROLS. REFER TO E510 SERIES DRAWINGS FOR LIGHTING CONTROL DETAILS.

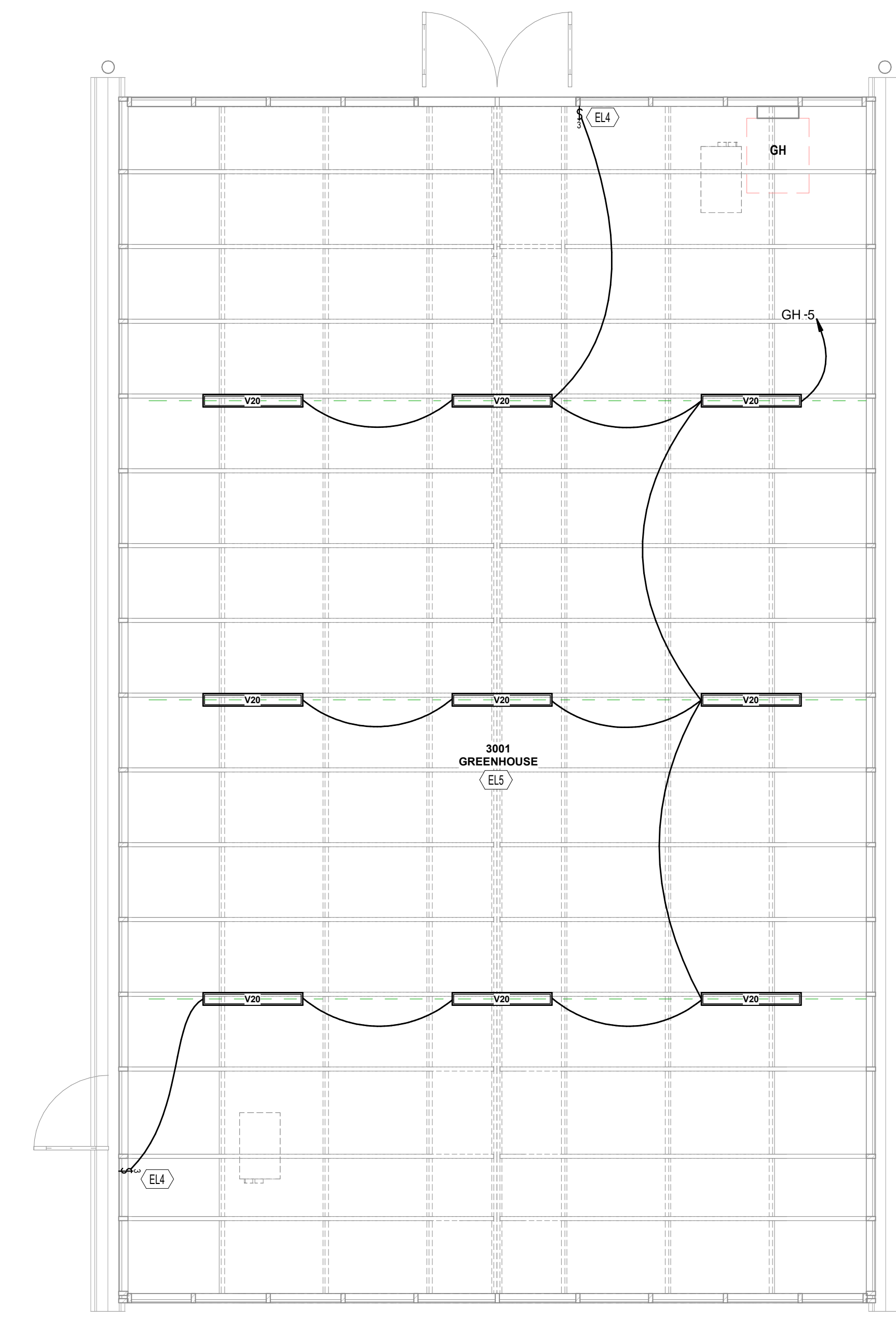


1 LIGHTING PLAN - AG LAB
 E100 1/4" = 1'-0"

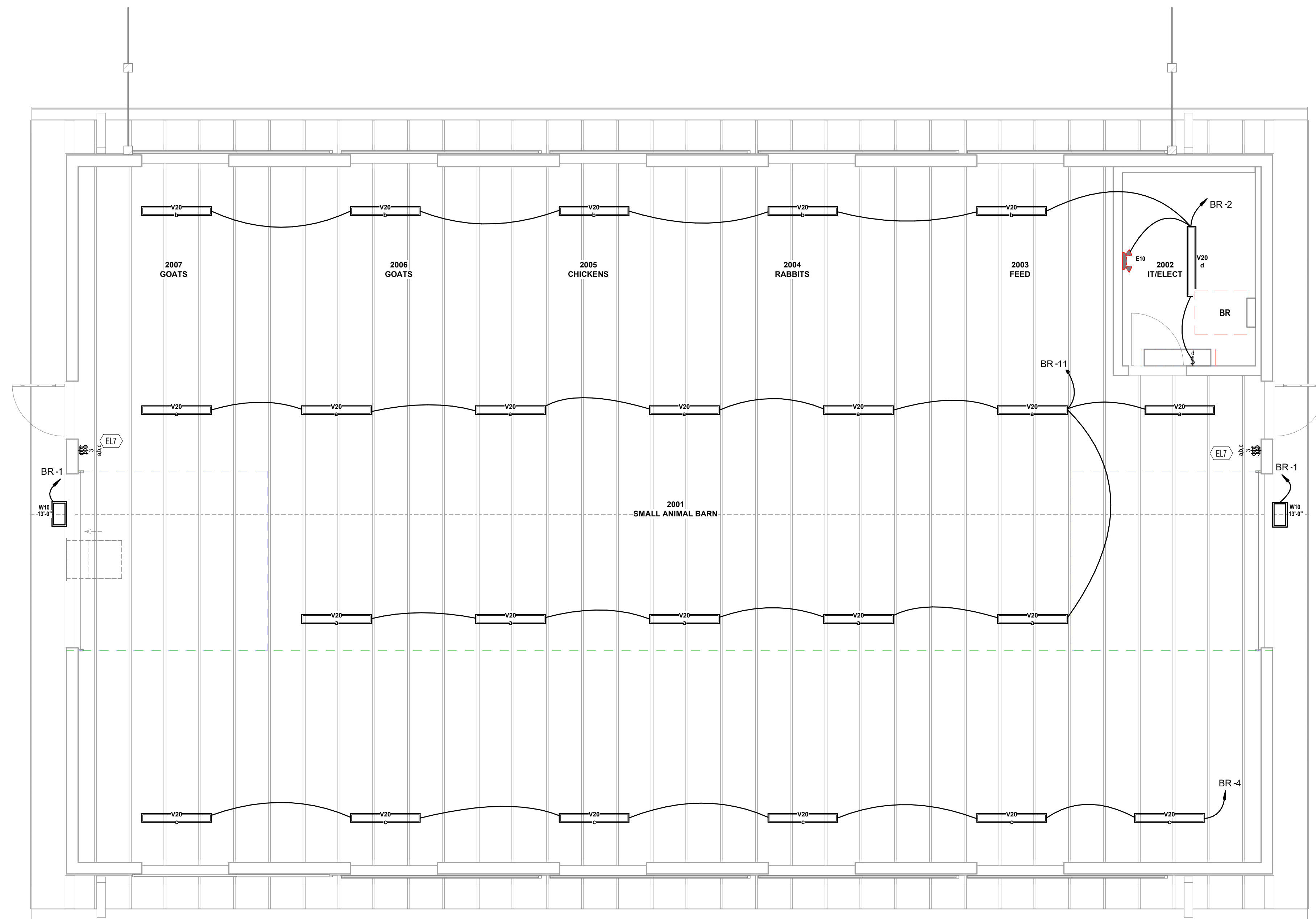
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1/4" REFERENCE LINE



2 LIGHTING PLAN - GREENHOUSE
E101 1/4" = 1'-0"



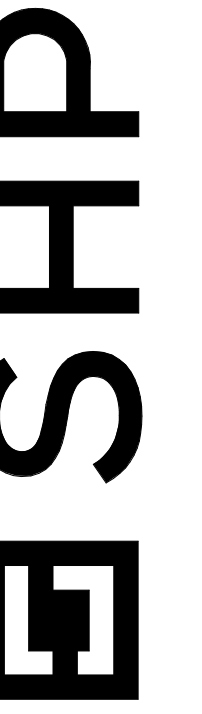
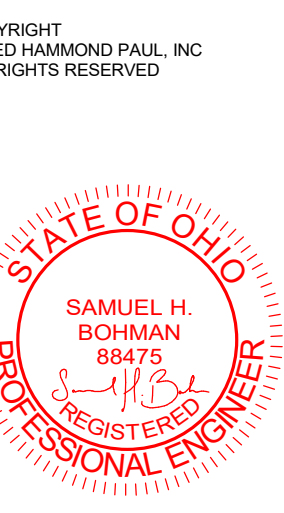
1 LIGHTING PLAN - BARN
E101 1/4" = 1'-0"

GENERAL LIGHTING NOTES:

- A. EXIT SIGNS AND EMERGENCY LIGHTING SHALL BE CONNECTED AHEAD OF ALL SWITCHING.
- B. POWER FOR EXIT SIGNS MOUNTED AT LOCATIONS WITH GLAZING, SUCH AS CURTAINWALLS OR STOREFRONT, SHALL BE CONCEALED THROUGH THE MULLION.

KEYNOTES

- EL4 PROVIDE WEATHERPROOF SINGLE GANG BOX AND TOGGLE SWITCH COVER FOR LIGHT SWITCH.
- EL5 MOUNT LIGHT FIXTURES IN GREENHOUSE ON BOTTOM OF RAFTERS. COORDINATE EXACT LOCATIONS WITH FINAL GREENHOUSE DRAWINGS.
- EL7 PROVIDE WEATHERPROOF BOX(ES) AND TOGGLE SWITCH COVER(S) FOR LIGHT SWITCH BANK.



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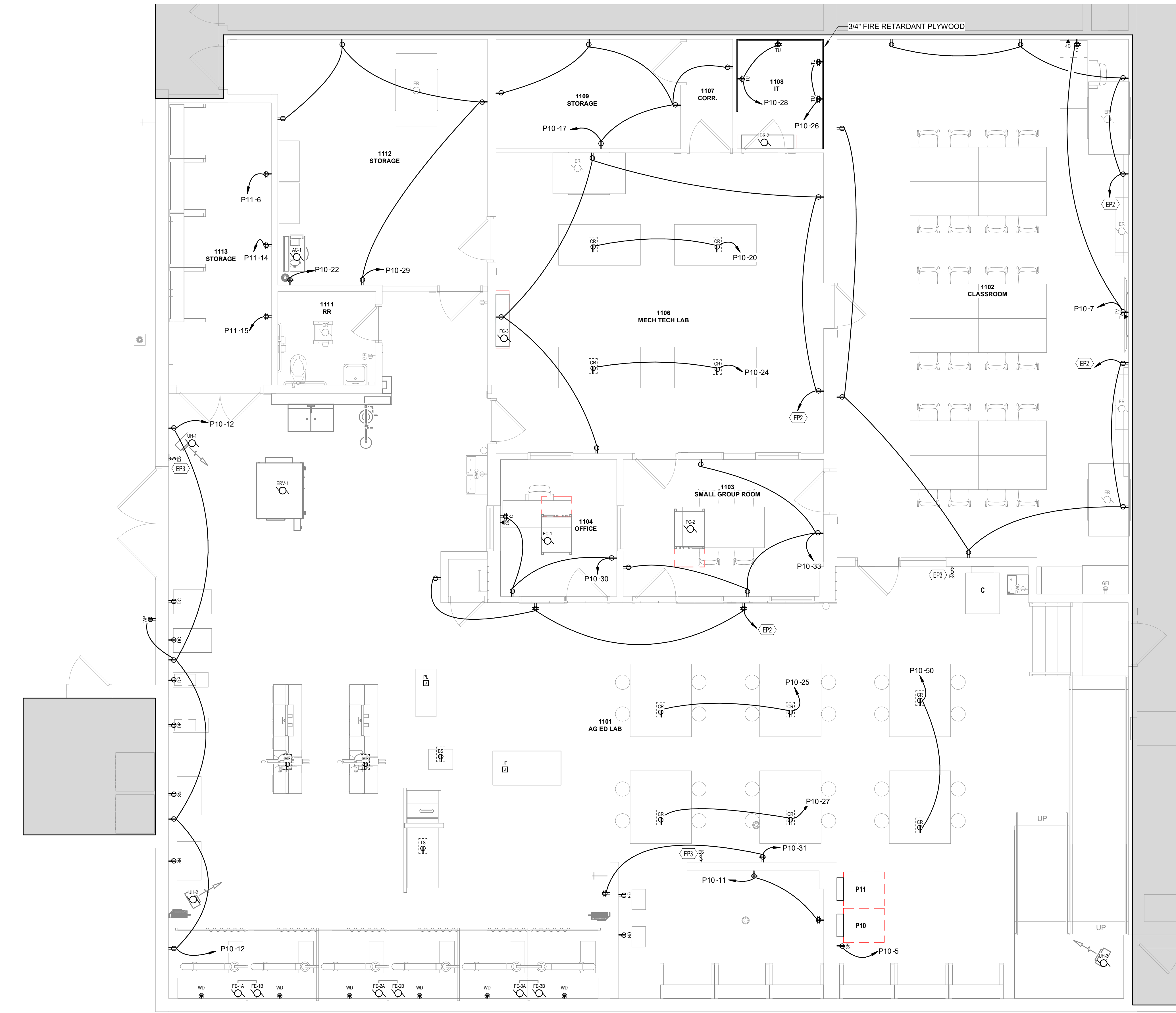
ISSUANCES

03-01-24	DESIGN DEVELOPMENT
04-09-24	50% CD
A 04-18-24	BID/PERMIT SET

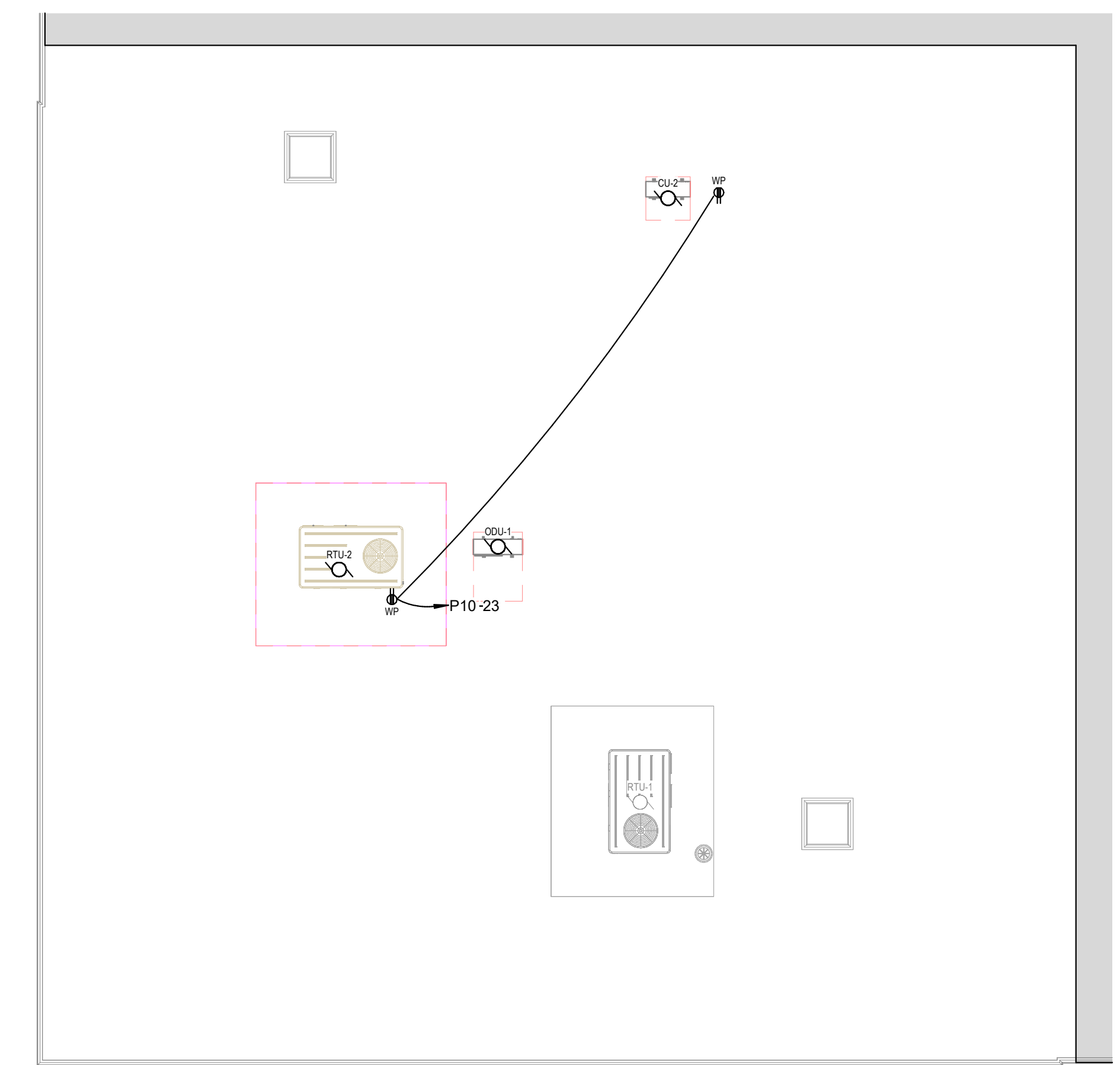
LIGHTING PLANS - BARN AND GREENHOUSE

COMM NO. 2024006.01

E101



1 POWER PLAN - AG LAB
E200 1/4" = 1'-0"



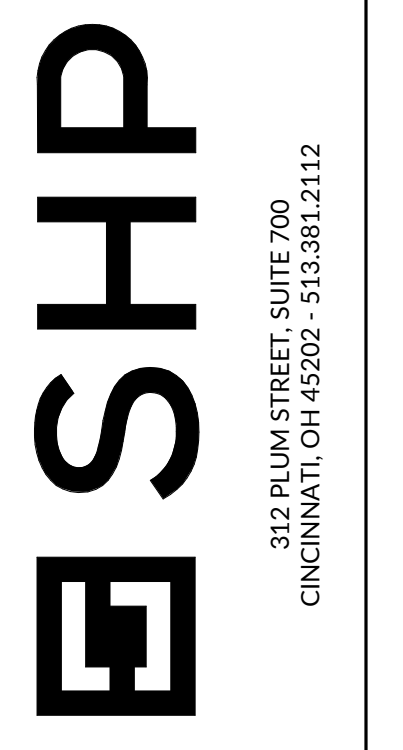
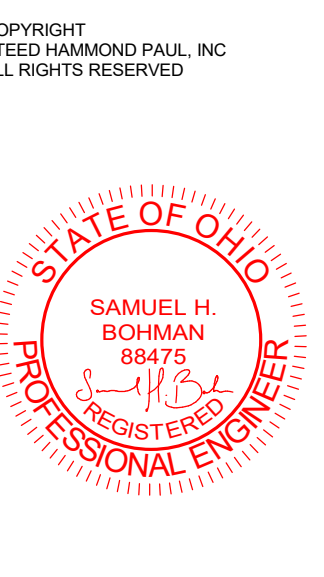
2 ELECTRICAL POWER PLAN - ROOF
E200 1/8" = 1'-0"

GENERAL POWER NOTES:

- A. REFER TO E000 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.
- B. REFER TO E000 SERIES SHEETS FOR STARTER AND DISCONNECT TYPES AND CONTRACTOR RESPONSIBILITIES. STARTER AND DISCONNECT LOCATIONS TO BE NEAR EQUIPMENT WITH PROPER CLEARANCE AND WORKING SPACE PER NEC. COORDINATE MOUNTING WITH OTHER DISCIPLINES.
- C. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE M SERIES DRAWINGS FOR THERMOSTAT LOCATIONS.
- D. EC SHALL BE RESPONSIBLE FOR TECHNOLOGY ROUGH-IN LOCATIONS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- E. ALL 15A AND 20A, 125V AND 250V, NON-LOCKING TYPE RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12 SHALL BE TAMPER-RESISTANT RECEPTACLES.
- F. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING ROUGH-IN LOCATION, CONNECTION TYPE, AND POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- G. PRIOR TO DEVICE ROUGH-IN, REFER TO E000 SERIES SHEETS FOR DEVICE LEGENDS AND SPECIALTY INFORMATION.
- H. PRIOR TO DEVICE ROUGH-IN, REFER TO E500 SERIES SHEETS FOR SPECIALTY MOUNTING DETAILS.

KEYNOTES

- EP2 CONNECT TO CIRCUIT MADE AVAILABLE THROUGH DEMOLITION. REFER TO E010 SERIES SHEETS.
- EP3 PROVIDE EMERGENCY STOP SWITCH FOR SHUNT TRIP IN P11. COORDINATE EXACT LOCATION IN FIELD.



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ISSUANCES

03-01-24	DESIGN DEVELOPMENT
04-08-24	100% CD
A 04-18-24	BID/PERMIT SET

POWER PLAN - AG LAB

COMM NO. 2024006.01

E200

GREENHOUSE EQUIPMENT

A. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING ROUGH-IN LOCATION, CONTROL WIRING, STARTERS, CONNECTION TYPE, AND POWER REQUIREMENTS WITH GREENHOUSE SUPPLIER PRIOR TO ROUGH-IN.

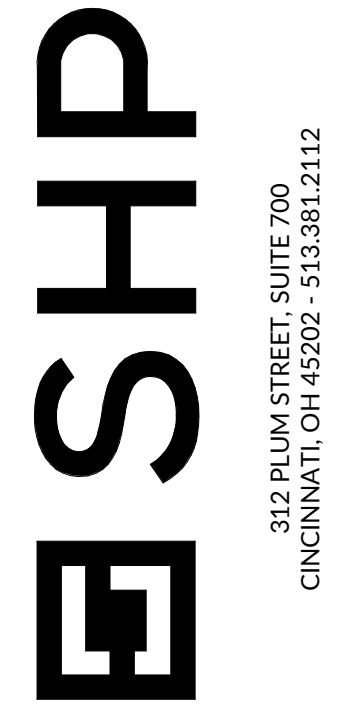
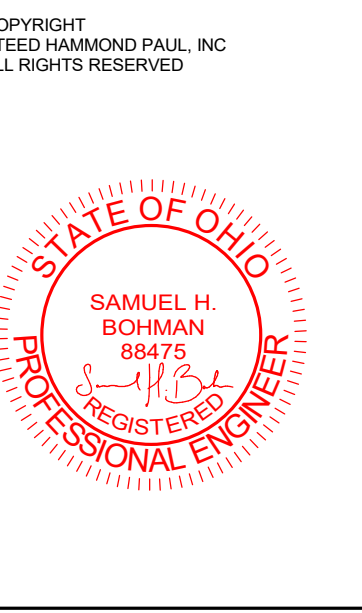
26-GREENHOUSE EQUIPMENT SCHEDULE													
MARK	DESCRIPTION	DISCONNECTING MEANS			ELECTRICAL								WIRING NOTES
		TYPE	PROVIDED BY	INSTALLED BY	LOCATION	VOLTS	POLES	AMPS	MOCB	PANEL	CIRCUIT		
AV	ATRIUM VENT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	208 V	3	7.8 A	15.0 A	GH	8,10,12		
EF	EXHAUST FAN	NF DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	208 V	3	11.0 A	20.0 A	GH	20,22,24		
EF	EXHAUST FAN	NF DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	208 V	3	11.0 A	20.0 A	GH	15,17,19		
HF	HAF FANS	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	1.0 A	15.0 A	GH	2		
HF	HAF FANS	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	1.0 A	15.0 A	GH	2		
SM	SHADE MOTOR	NF DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	208 V	3	7.8 A	15.0 A	GH	9,11,13		
SV	SIDE VENT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	208 V	3	7.8 A	15.0 A	GH	14,16,18		
UH	UNIT HEATER	MRTS	DIV. 23	DIV. 23	INTEGRAL TO UNIT	120 V	1	1.0 A	15.0 A	GH	3		
UH	UNIT HEATER	MRTS	DIV. 23	DIV. 23	INTEGRAL TO UNIT	120 V	1	1.0 A	15.0 A	GH	3		

GENERAL POWER NOTES:

- A. REFER TO E000 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.
- B. REFER TO E000 SERIES SHEETS FOR STARTER AND DISCONNECT TYPES AND CONTRACTOR RESPONSIBILITIES. STARTER AND DISCONNECT LOCATIONS TO BE NEAR EQUIPMENT WITH PROPER CLEARANCE AND WORKING SPACE PER NEC. COORDINATE MOUNTING WITH OTHER DISCIPLINES.
- C. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE M SERIES DRAWINGS FOR THERMOSTAT LOCATIONS.
- D. EC SHALL BE RESPONSIBLE FOR TECHNOLOGY ROUGH-IN LOCATIONS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- E. ALL 15A AND 20A, 125V AND 250V, NON-LOCKING TYPE RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 408.12 SHALL BE TAMPER-RESISTANT RECEPTACLES.
- F. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING ROUGH-IN LOCATION, CONNECTION TYPE, AND POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- G. PRIOR TO DEVICE ROUGH-IN, REFER TO E000 SERIES SHEETS FOR DEVICE LEGENDS AND SPECIALTY INFORMATION.
- H. PRIOR TO DEVICE ROUGH-IN, REFER TO E500 SERIES SHEETS FOR SPECIALTY MOUNTING DETAILS.

KEYNOTES

- EP5 PROVIDE CEILING FAN BOXES, AND CONDUIT WITH PULLSTRING TO CONTROL STATION FOR FUTURE INSTALLATION OF CEILING FANS. PROVIDE WIRING AND FULL INSTALLATION OF CEILING FANS AS PART OF ALTERNATE 5.
- EP6 PROVIDE WEATHERPROOF BOX AND MULTI-USE COVERS FOR CEILING FAN CONTROLLERS.
- EP7 COORDINATE FINAL LOCATION OF MOTOR AND DISCONNECT WITH GREENHOUSE MANUFACTURER PROVIDED DRAWINGS.
- EP8 COORDINATE FINAL LOCATION OF HEATER WITH GREENHOUSE MANUFACTURER PROVIDED DRAWINGS.
- EP9 COORDINATE FINAL LOCATION OF GREENHOUSE CONTROLLERS AND CONTACTOR PANELS WITH GREENHOUSE INSTALLER PRIOR TO INSTALLATION. PROVIDE CONTROL AND POWER WIRING TO ACCESSORIES, MOTORS, EQUIPMENT, AND DEVICES PER MANUFACTURER'S INSTRUCTIONS.
- EP10 PROVIDE WEATHERPROOF BOX WITH MULTI-USE COVER FOR MOTOR RATED TOGGLE SWITCH.



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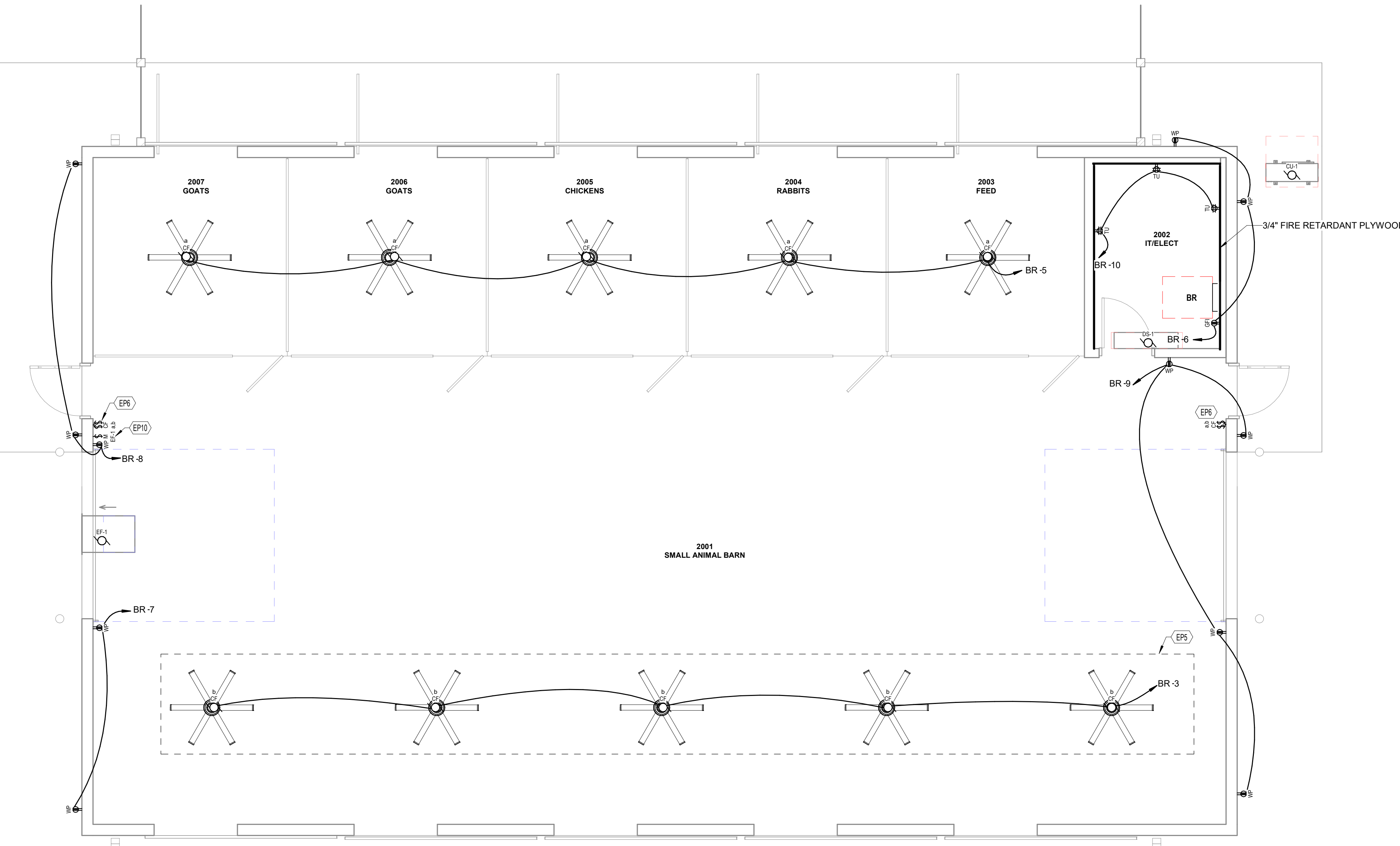
ISSUANCES

03-01-24	DESIGN DEVELOPMENT
04-09-24	10% CD
A 04-18-24	BID/PERMIT SET

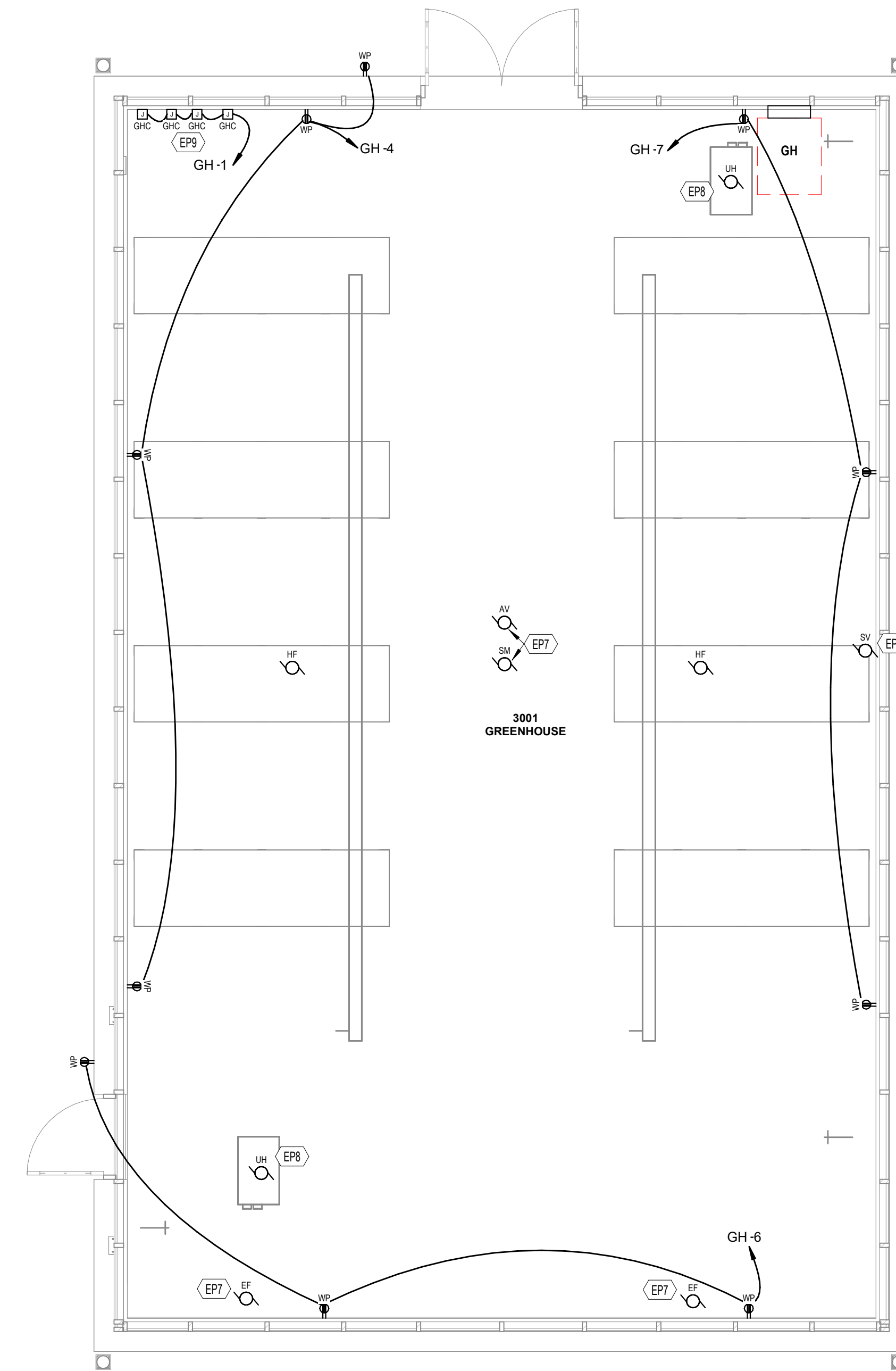
POWER PLANS - BARN AND GREENHOUSE

COMM NO. 2024006.01

E201



1 POWER PLAN - BARN
 E201 1/4" = 1'-0"



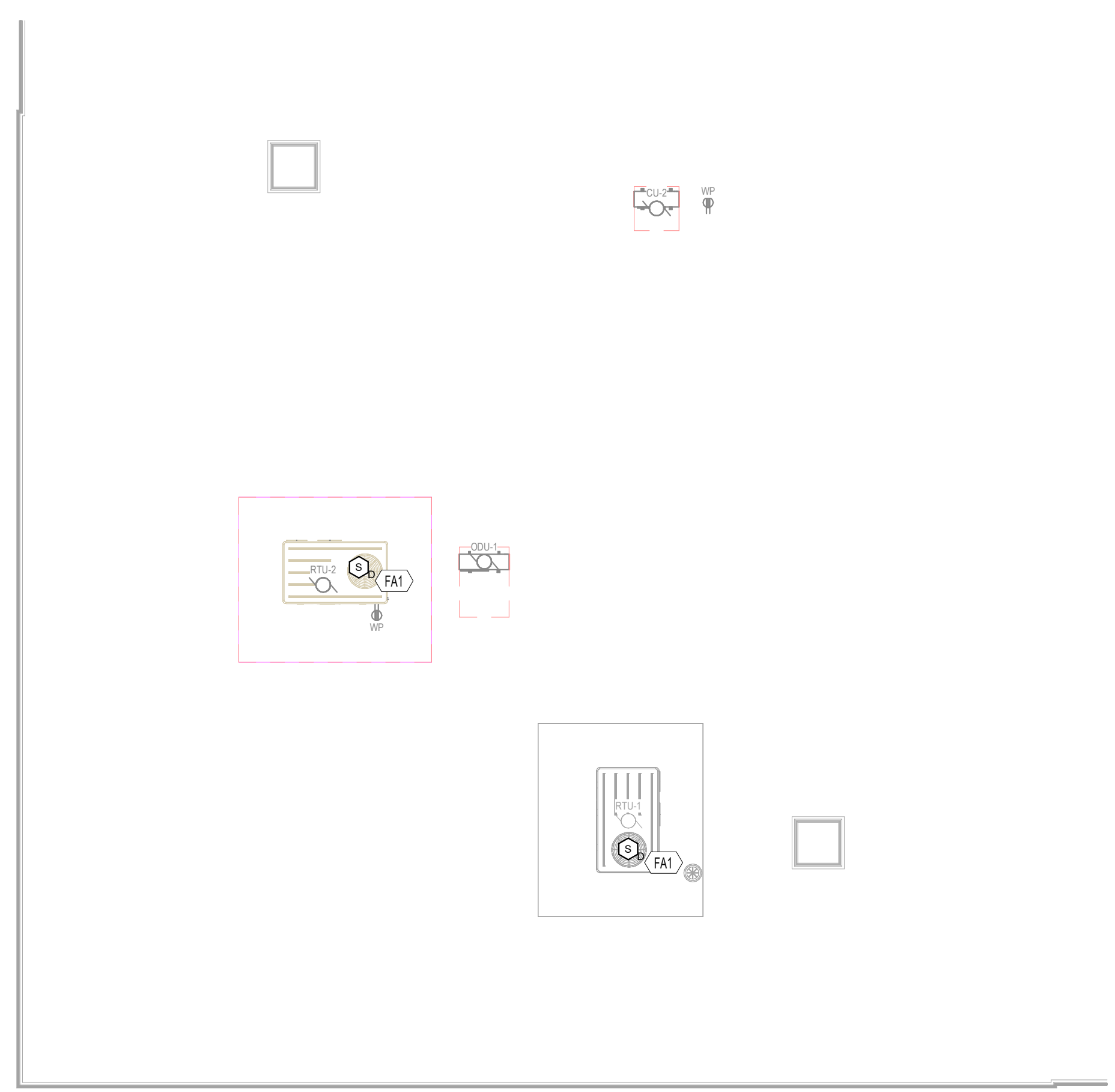
2 POWER PLAN - GREENHOUSE
 E201 1/4" = 1'-0"

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1 FIRE ALARM PLAN - AG LAB
E300 1/4" = 1'-0"



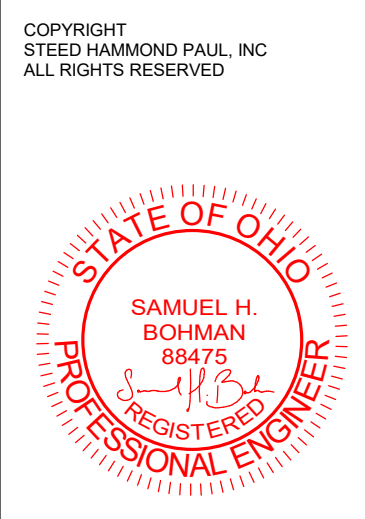
2 FIRE ALARM PLAN - ROOF
E300 1/8" = 1'-0"

GENERAL FIRE ALARM NOTES:

- A. FIRE ALARM DRAWINGS INDICATE A BASIS OF DESIGN FOR LOCATIONS AND QUANTITIES OF DEVICES, APPLIANCES, CONTROL PANELS, ETC. FIRE ALARM SYSTEM DESIGNER SHALL REVISE THE PLANS AS REQUIRED TO MEET ALL CODE AND PROJECT REQUIREMENTS. FIRE ALARM SYSTEM SHALL BE DESIGNED BY A LICENSED FIRE ALARM SYSTEM DESIGNER.
- B. CEILING MOUNTED VISUAL ALARM NOTIFICATION DEVICES SHALL BE MOUNTED BELOW THE LOWEST OBSTRUCTION. PROVIDE HARDWARE AS REQUIRED FOR PENDANT TYPE INSTALLATION.

KEYNOTES

- FA1 PROVIDE SMOKE DETECTOR(S) AS REQUIRED TO MONITOR ALL RETURN AIR (BOTH DUCTED AND PLENUM RETURNS). PROVIDE RELAY(S) AS REQUIRED TO SHUT DOWN EACH HVAC EQUIPMENT WITH-IN ROOM. COORDINATE LOCATION WITH DIV. 23. PROVIDE REMOTE TEST STATION NEAR SERVING EQUIPMENT.



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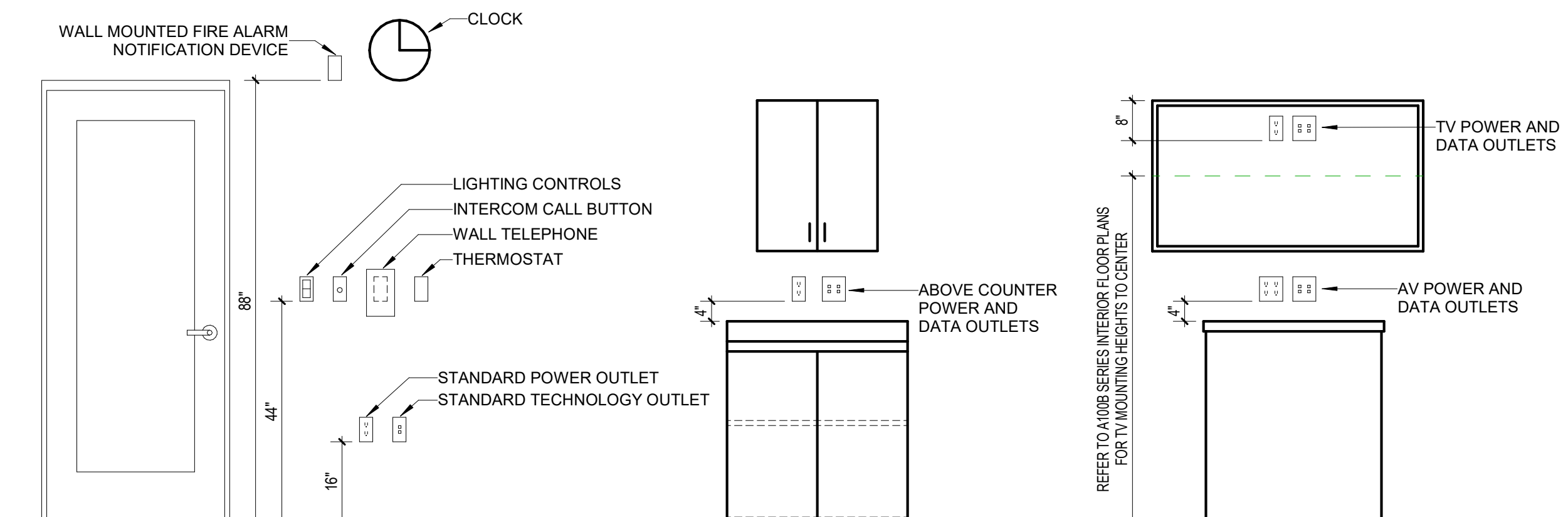
ISSUANCES	
03-01-24	DESIGN DEVELOPMENT
04-09-24	10% CD
A 04-18-24	BID/PERMIT SET

FIRE ALARM PLAN

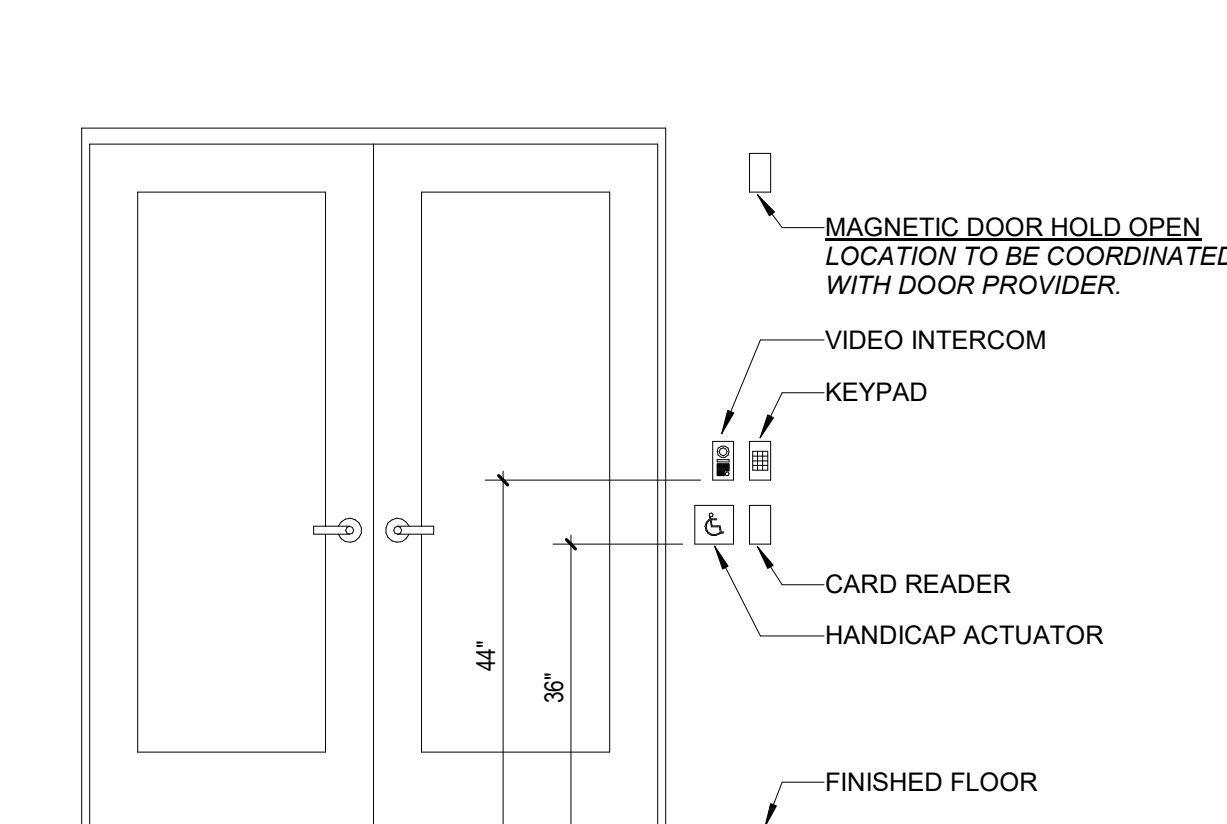
COMM NO. 2024006.01

E300

1" = 1' REFERENCE LINE



1 TYPICAL DEVICE MOUNTING LOCATION
E500

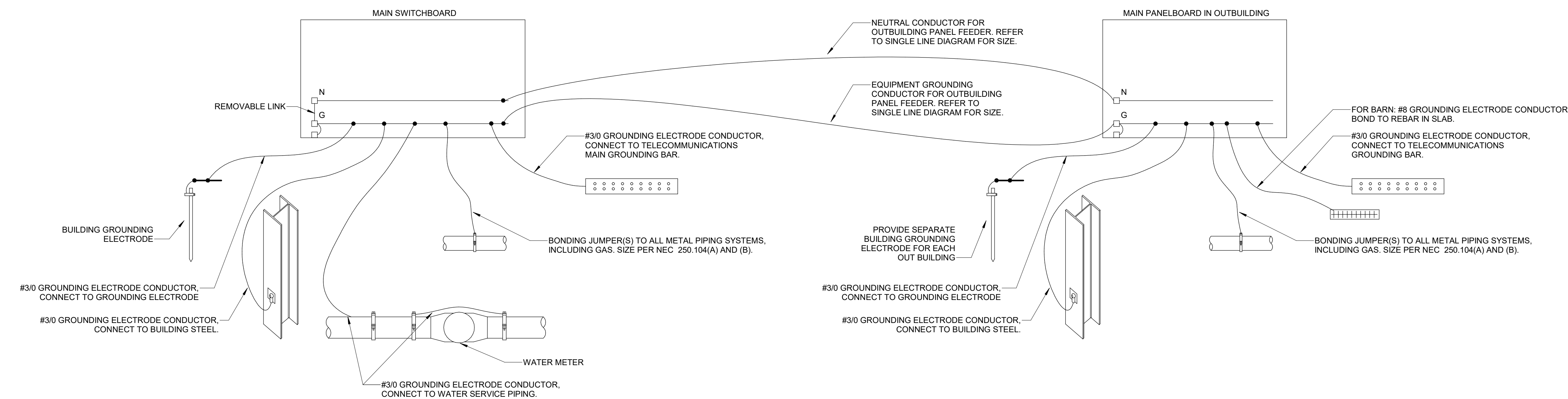


2 TYPICAL ACCESS CONTROL MOUNTING LOCATIONS
E500

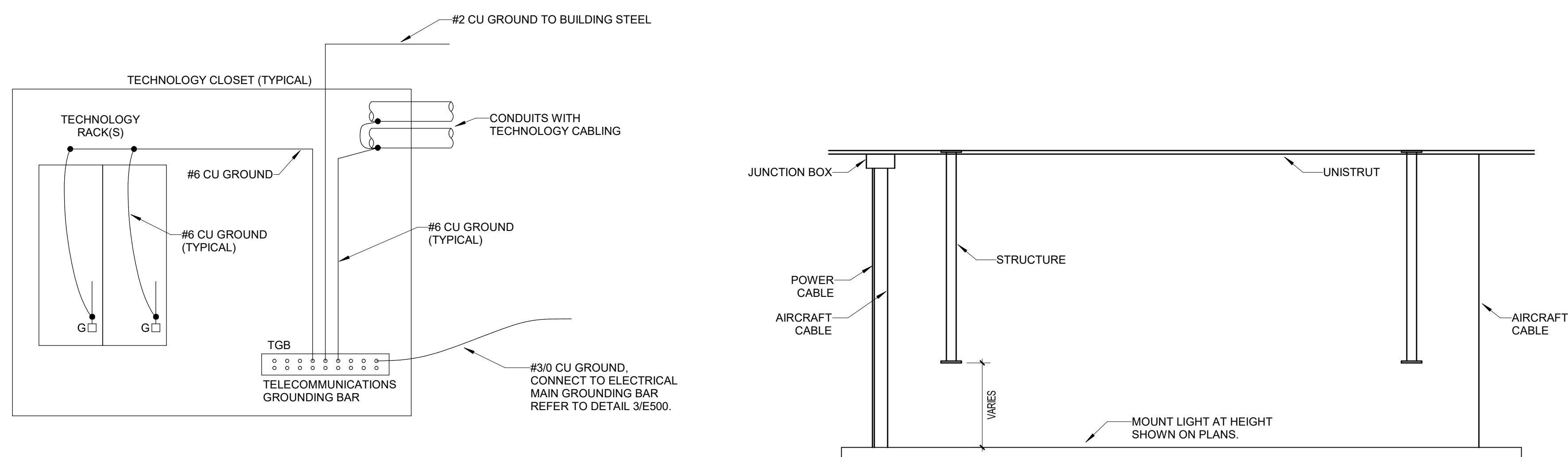
- GENERAL DEVICE MOUNTING NOTES:**
- A. EC SHALL REFER TO A100B-SERIES DRAWINGS, A640-SERIES ELEVATIONS, AND F-SERIES DRAWINGS FOR ALL CASEWORK AND FURNITURE COORDINATION REQUIREMENTS. WHERE CUTOUTS IN CASEWORK ARE REQUIRED, EC SHALL COORDINATE EXACT LOCATION WITH CASEWORK PROVIDER.
 - B. MOUNTING HEIGHTS FOR RECESSED J-BOXES INSTALLED IN CMU WALLS SHALL BE COORDINATED TO ALIGN WITH THE TOP EDGE OR BOTTOM EDGE OF THE BLOCK.
 - C. J-BOX LOCATIONS THAT SHIFT TO ALIGN WITH A CMU BLOCK SHALL BE INSTALLED NO CLOSER THAN 4" TO THE TOP OF A COUNTER OR BACKSPASH AS SHOWN.
 - D. J-BOX LOCATIONS THAT SHIFT TO ALIGN WITH A CMU BLOCK SHALL BE COORDINATED TO NOT CONFLICT WITH CASEWORK INSTALLATION.

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3 BUILDING GROUNDING
E500



4 TECHNOLOGY GROUNDING DETAIL
E500

5 MOUNTING DETAIL - LINEAR PENDANT
E500

LIGHTING CONTROL MATRIX NOTES

- 1. CONTRACTOR SHALL PROVIDE MOTION SENSORS, ROOM CONTROLLERS, AND ACCESSORIES AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. SYSTEM FUNCTIONALITY SHALL COMPLY WITH THE REQUIREMENTS OF THE OHIO ENERGY CODE. IT IS THE RESPONSIBILITY OF THE EC TO REVIEW MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL ROOM CONTROLLERS/POWER PACKS AND ASSOCIATED WIRING FOR MULTIPLE SWITCH LEG LOCATIONS AS REQUIRED. SEE PLANS FOR EXACT SWITCH LEGS WITHIN EACH AREA OR ROOM.
- 2. LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. HIGH BAY SENSORS SHALL BE PROVIDED WHEN SENSORS ARE MOUNTED ABOVE 12 FT.
- 3. COORDINATE QUANTITIES, LOCATIONS OF ALL LIGHTING CONTROLS OVERRIDES WITH OWNER PRIOR TO ROUGH-IN.
- 4. SPECIAL LIGHTING REQUIREMENTS: (N) NIGHT LIGHTING SHALL BE SET TO NOT ALLOW PATH OF EGRESS TO DIM BELOW 1 FC. (EM) EMERGENCY LIGHTS SHALL BE BROUGHT TO FULL BRIGHTNESS IN THE EVENT OF POWER LOSS OR FIRE ALARM ACTUATION. PROVIDE UL 924 RELAY WITH REMOTE TEST AND EMERGENCY SPECIFIC PANELS AS REQUIRED.
- 5. REFER TO LIGHTING CONTROLS SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

26-LIGHTING CONTROL MATRIX

ROOM NUMBER	ROOM NAME	WALL CONTROL STATION		AUTOMATIC CONTROL			SCHEDULING	NOTES
		TYPE	CONTROL SEQUENCE	TYPE	ACTIVATION	TIMEOUT		
1101	AG ED LAB	CONTROL VOLTAGE	MULTI-ZONE ON / OFF / DIM	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	
1102	CLASSROOM	CONTROL VOLTAGE	MULTI-ZONE ON / OFF / DIM	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	
1103	SMALL GROUP ROOM	LINE VOLTAGE	ON / OFF / DIM	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	
1104	OFFICE	LINE VOLTAGE	ON / OFF / DIM	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	
1106	MECH TECH LAB	LINE VOLTAGE	ON / OFF / DIM	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	
1107	CORR	LINE VOLTAGE	N/A	OCCUPANCY SENSOR	AUTOMATIC	20 MIN	N/A	
1108	IT	LINE VOLTAGE	ON / OFF	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	
1109	STORAGE	LINE VOLTAGE	ON / OFF	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	
1111	RR	LINE VOLTAGE	ON / OFF	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	
1112	STORAGE	CONTROL VOLTAGE	ON / OFF	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	
1113	STORAGE	CONTROL VOLTAGE	ON / OFF	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	
1114	EXIST DUST CONT.	LINE VOLTAGE	ON / OFF	N/A	N/A	N/A	N/A	
2001	SMALL ANIMAL BARN	LINE VOLTAGE	ON / OFF	N/A	N/A	N/A	N/A	
2002	IT/ELECT	LINE VOLTAGE	ON / OFF	N/A	N/A	N/A	N/A	
2003	FEED	LINE VOLTAGE	ON / OFF	N/A	N/A	N/A	N/A	
2004	RABBITS	LINE VOLTAGE	ON / OFF	N/A	N/A	N/A	N/A	
2005	CHICKENS	LINE VOLTAGE	ON / OFF	N/A	N/A	N/A	N/A	
2006	GOATS	LINE VOLTAGE	ON / OFF	N/A	N/A	N/A	N/A	
2007	GOATS	LINE VOLTAGE	ON / OFF	N/A	N/A	N/A	N/A	
3001	GREENHOUSE	LINE VOLTAGE	ON / OFF	N/A	N/A	N/A	N/A	

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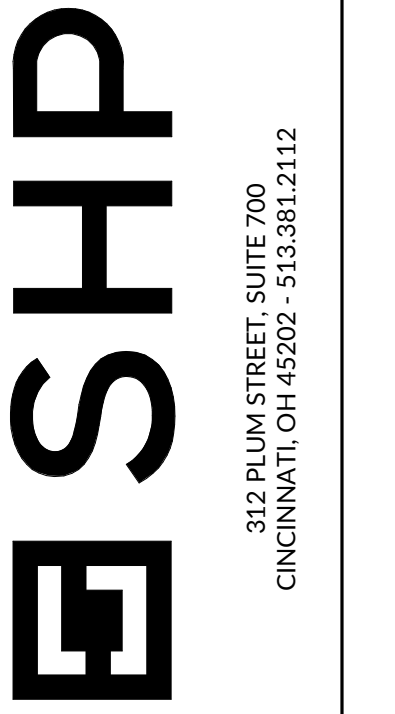
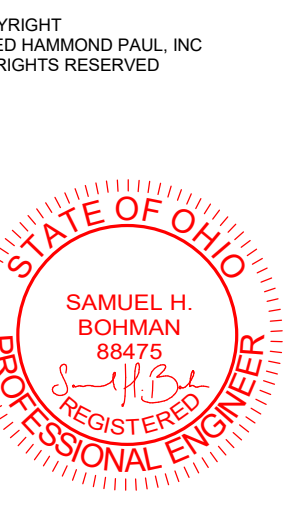
ISSUANCES

NO.	DATE	DESCRIPTION
03-01-24	DESIGN DEVELOPMENT	
04-08-24	10% CD	
A 04-18-24	BID/PERMIT SET	

ELECTRICAL DETAILS

COMM NO. 2024006.01

E500



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ISSUANCES	
03-01-24	DESIGN DEVELOPMENT
04-09-24	100% CD
04-18-24	BID/PERMIT SET

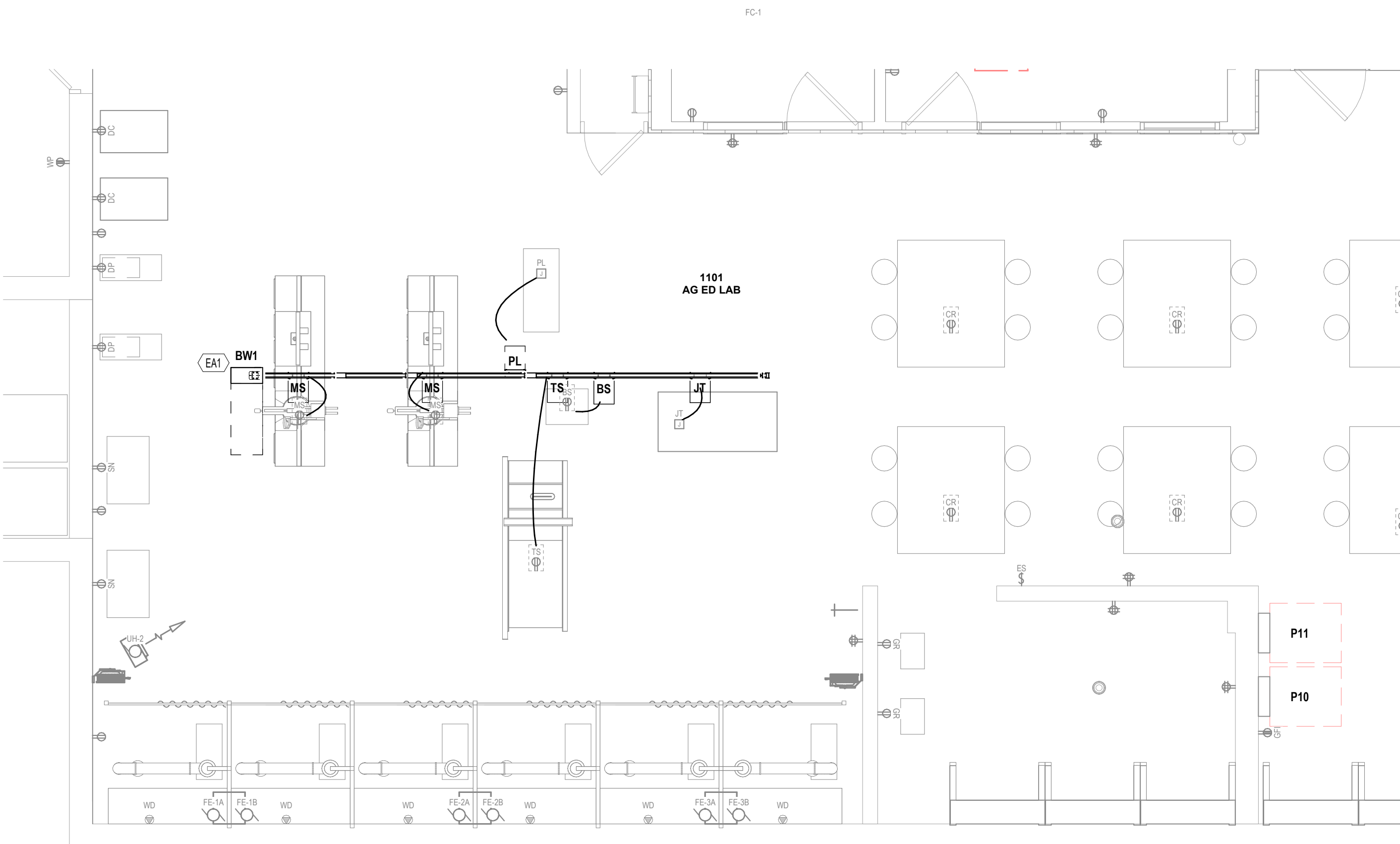
ELECTRICAL
ALTERNATES

COMM NO. 2024006.01

E550

KEYNOTES

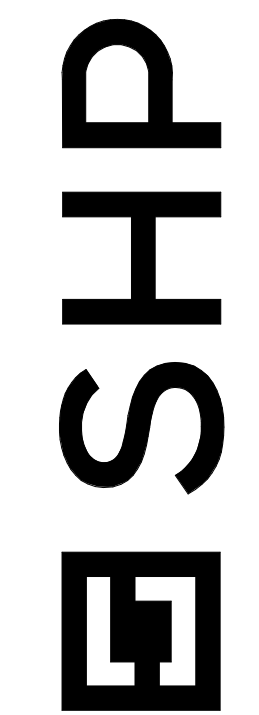
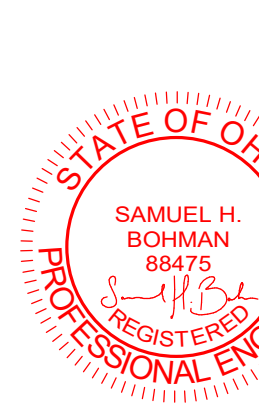
EA1 PROVIDE 100A RATED BUSWAY MOUNTED 12-0" AFF AS PART OF ALTERNATE 3. COORDINATE FINAL LOCATION OF PLUG-INS IN FIELD.



1 POWER PLAN - ALTERNATE #3
 E550 1/4" = 1'-0"

Busway: BW1						
Location: AG ED LAB 1101		Volts: 208Y/120V		A.I.C. Rating: STANDARD		
Supply From: P11		Phases: 3		Busway Rating: 100.0 A		
		Wires: 4				
CKT	Circuit Description	# of Poles	PlugIn Size	Trip Rating	Load	Remarks
1	JOINTER	2	30.0 A	30.0 A	3650 VA	
2	TABLE SAW	1	20.0 A	20.0 A	1800 VA	
3	BAND SAW	1	20.0 A	20.0 A	1920 VA	
4	PLANAR	2	60.0 A	60.0 A	9152 VA	
5	MITER SAW	1	20.0 A	20.0 A	1600 VA	
6	MITER SAW	1	20.0 A	20.0 A	1600 VA	
7						
8						
9						
10						
					Total Conn. Load:	19962 VA
					Total Amps:	55.4 A
Legend:						
Panel Totals						
					Total Conn. Load:	19962 VA
					Total Est. Demand:	19962 VA
					Total Conn. Current:	55.4 A
					Total Est. Demand Current:	55.4 A
Notes:						
ALTERNATE #3						

Panelboard: P11												
Location:				Volts: 208Y/120V				A.I.C. Rating: 16,000				
Supply From:				Phases: 3				Main Type: MCB				
Mounting: Wall Mounted				Wires: 4				Panel & MCB Rating: 400.0 A				
Enclosure: NEMA 1												
CKT	Circuit Description	Device Notes	Trip	Poles	A	B	C	Poles	Trip	Device Notes	Circuit Description	CKT
1	BUSWAY		225	3	8253	360		1	20		R - 1101	2
3		--	--	--		8253	1920		1	20	R - 1101	4
5		--	--	--			8252	1920	1	20	R - 1101 - DUST COLLECTOR	6
7	R - 1101 - GRINDER		20	1	180	1529			2	40	R - 1101 - WELDER	8
9	R - 1101 - GRINDER		20	1		180	1529			--	--	10
11	R - 1113		20	1			360	1529	2	40	R - 1101 - WELDER	12
13	R - 1113		20	1	360	1529			--	--	--	14
15						1529			2	40	R - 1101 - WELDER	16
17							1529		--	--	--	18
19						1529			2	40	R - 1101 - WELDER	20
21							1529		--	--	--	22
23								1529	2	40	R - 1101 - WELDER	24
25						1529			--	--	--	26
27							1529		2	40	R - 1101 - WELDER	28
29								1529	--	--	--	30
31												32
33												34
35												36
37	Spare		20	1	0	0			1	20	Spare	38
39	Spare		20	1		0	0		1	20	Spare	40
41	Spare		20	1			0	0	1	20	Spare	42
					Total Load:	15269 VA	16469 VA	16649 VA				
					Total Amps:	127.2 A	138.8 A	140.3 A				
Panel Totals												
								Total Conn. Load:				48386 VA
								Total Est. Demand:				39086 VA
								Total Conn. Current:				134.3 A
								Total Est. Demand Current:				108.5 A
Notes:												
ALTERNATE #3 PROVIDE SHUNT TRIP MAIN BREAKER												



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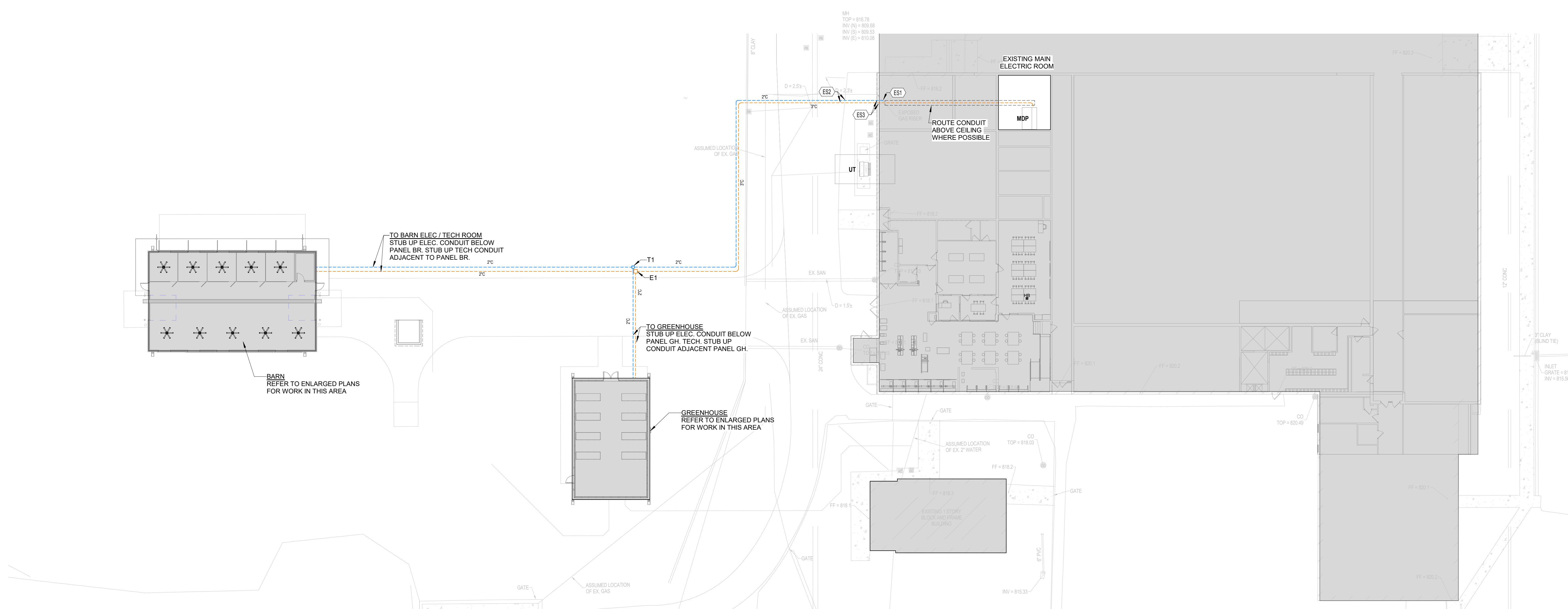
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GENERAL NOTES - SITE PLAN

- A. COORDINATE SCHEDULE OF WORK WITH CONSTRUCTION MANAGER.
- B. PERFORM ALL EXCAVATION, TRENCHING AND BACKFILL REQUIRED FOR THE INSTALLATION OF THIS WORK. ALL BACKFILL SHALL BE BROUGHT TO FINISHED GRADE AND MATCH SURROUNDING CONDITIONS. RESTORE ALL DISTURBED PAVING AND LANDSCAPING TO ORIGINAL CONDITIONS. PULL BOXES SHALL BE PROVIDED OF THE TYPE MEETING THE REQUIREMENTS AND CONDITIONS FOR THE USE INTENDED. PROVIDE QUANTITY AND TYPE OF PULL BOXES TO MEET INSTALLATION REQUIREMENTS.
- C. COORDINATE DEPTH AND ROUTING OF UNDERGROUND WORK WITH OTHER SITE UTILITIES.
- D. COORDINATE ALL SITE CONDUIT ROUTING WITH OTHER DISCIPLINES. ROUTING SHOWN ON DRAWINGS IS FOR REFERENCE ONLY AND MAY BE MODIFIED TO ACCOMMODATE FOR SITE CONDITIONS.

KEYNOTES

- ES1. COORDINATE TECHNOLOGY CONDUIT TERMINATION LOCATION INSIDE BUILDING WITH OWNER PRIOR TO INSTALLATION.
- ES2. VERIFY EXACT ROUTING OF CONDUIT IN FIELD PRIOR TO INSTALLATION.
- ES3. ROUTE FROM UNDERGROUND, UP BUILDING EXTERIOR WALL TO CEILING LEVEL, AND INTO BUILDING.



1 ELECTRICAL SITE PLAN
E700 1" = 20'-0"

ISSUANCES

03-01-24	DESIGN DEVELOPMENT
04-09-24	100% CD
A	04-18-24 BID/PERMIT SET

ELECTRICAL SITE PLAN

COMM NO. 2024006.01

E700