



**REVISIONS**

**NOTES**

- GENERAL SITE NOTES:
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  - Note the standard deviation on the existing contours may vary plus or minus 1/2 contour.
  - The site is subject to any and all existing rights-of-way and easements of record.
  - The Contractor shall be responsible for securing necessary permits before commencing work.
  - Protect all utility lines during construction, whether specifically shown on drawings or not. (See list of utility users this sheet.)
  - The Contractor shall take precautionary measures to ensure safety of the public on and surrounding the site during construction.
  - The Contractor shall visit the site to personally ascertain the nature of the work involved and thoroughly familiarize himself with the site prior to the submission of this bid.
  - The Contractor shall make their own review of the existing surface conditions.
  - Permanently seed and stabilize all disturbed areas created by construction activities.
  - The Contractor shall protect any tree or shrub not shown to be removed.
  - Any tree damaged, injured, or killed as a result of construction activity shall be removed or repaired by the Contractor unless otherwise addressed on the drawings.
  - All new surfaces and connections to existing surfaces must meet existing layouts and elevations, unless otherwise noted.

**GENERAL NOTES:**

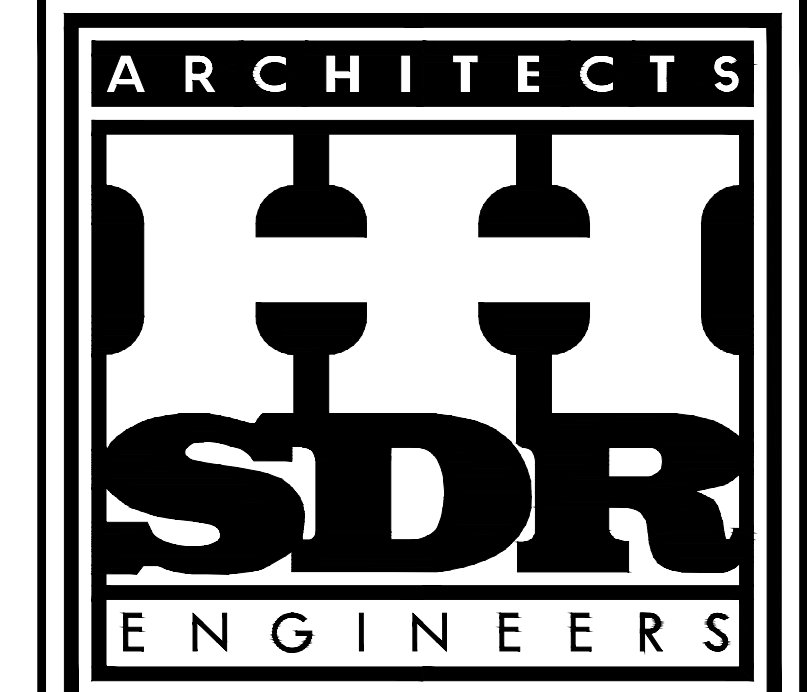
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**UTILITY WARNING:**

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40 SHENANGO AVE, SHARON, PA 16146 • (724) 981-8820  
130 SEVENTH ST., PITTSBURGH, PA 15222 • (412) 281-2280

**EXISTING CONDITIONS ISSUED FOR INFORMATION ONLY**

**MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM**  
41 MUNNELL RUN LANE  
MERCER, PA 16137

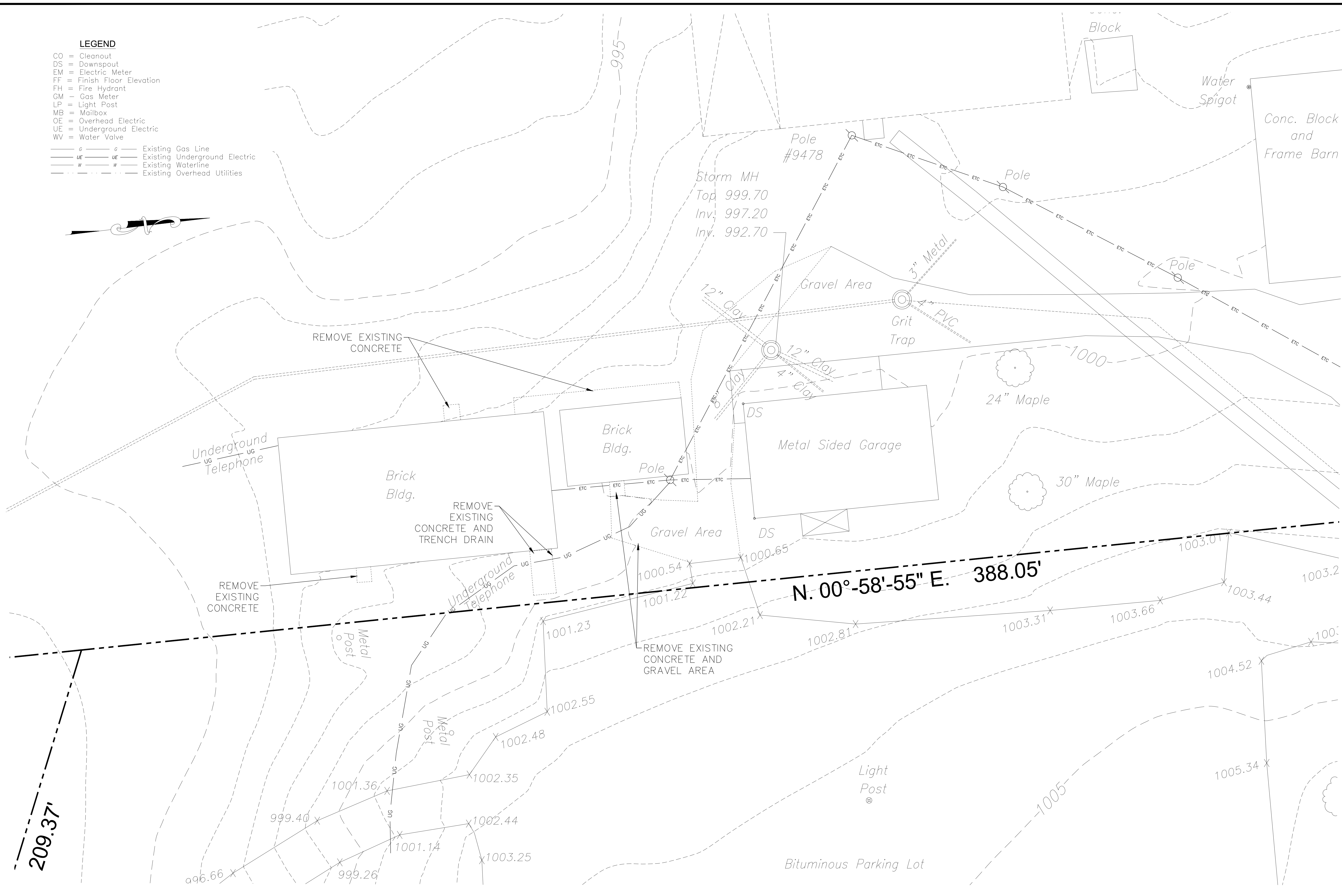
FOR THE  
**MERCER COUNTY COMMISSIONERS**  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

**EXISTING CONDITIONS AND SITE DEMOLITION PLAN**

COMM. NO. 4826 SHEET NO. EX-1.1  
DATE 05/29/26 ©Copyright, 2026

**LEGEND**

- CO = Cleanout
  - DS = Downspout
  - EM = Electric Meter
  - FF = Finish Floor Elevation
  - FH = Fire Hydrant
  - GM = Gas Meter
  - LP = Light Post
  - MB = Mailbox
  - OE = Overhead Electric
  - UE = Underground Electric
  - WV = Water Valve
- Existing Gas Line
  - Existing Underground Electric
  - Existing Waterline
  - Existing Overhead Utilities



**NOTES:**

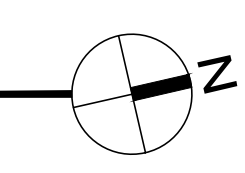
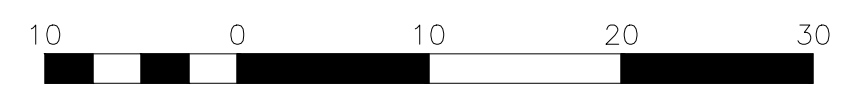
- ALL KNOWN EASEMENTS ARE SHOWN AS PER THE SURVEY.
- THIS SITE IS LOCATED IN ZONE "X" AS PER F.E.M.A. PANEL No. 4206503000.
- THE EXISTING FACILITY IS SERVED BY PUBLIC WATER AND SEWER. SEE PLUMBING DRAWINGS FOR SPECIFIC LAYOUT AND DETAILS.

**UTILITIES**

- ATLAS ENERGY GROUP, INC.**  
101 McQuiston Dr.  
Jackson Center, PA 16133  
(724) 662-0300 Ext. 112
- ARMSTRONG CABLE SERVICES**  
123 Industrial Dr.  
Grove City, PA 16127  
(724) 458-5460
- ALLTEL**  
3954 Saranac Dr.  
Sharpsville, PA 16150  
(724) 656-0699
- VERIZON**  
1-800-275-2355
- NATIONAL FUEL**  
(724) 962-6250
- CONSUMERS PA WATER CO.**  
665 Dock St.  
Sharon, PA 16146  
(724) 981-1200
- TENNESSEE GAS PIPELINE CO.**  
Mercer-Greenville Rd.  
Mercer, PA 16137  
(724) 662-2990
- MERCER BOROUGH STREET AND SEWER DEPARTMENT**  
590 E. Market St.  
Mercer, PA 16137  
(724) 662-3291
- COOLSPRING TOWNSHIP**  
498 N. Perry Hwy.  
Mercer, PA 16137  
(724) 475-2010

**EXISTING CONDITIONS AND SITE DEMOLITION PLAN**

1" = 10'-0"



CALL BEFORE YOU DIG!  
PENNSYLVANIA LAW REQUIRES  
WORKING DAYS NOTICE FOR  
CONSTRUCTION PHASE AND 10 WORKING  
DAYS IN DESIGN STAGE-STOP CALL  
Send No. 2006132284  
Pennsylvania One Call System, Inc.  
1-800-242-1776

NOTE: FIELD VERIFY LOCATION AND DEPTH OF EXISTING UTILITY LINES. USE EXTREME CARE THROUGHOUT THE PROJECT WHEN WORKING AROUND EXISTING UTILITY LINES INCLUDING, BUT NOT LIMITED TO, WATER, GAS, ELECTRIC, COMMUNICATION (DATA, AND SANITARY). ALL UTILITIES TO REMAIN UNDISTURBED UNLESS NOTED OTHERWISE.

NOTE: CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES, SPECIFICALLY SHOWN OR NOT, TO BE PROTECTED UNLESS OTHERWISE NOTED.

**REVISIONS**

**NOTES**

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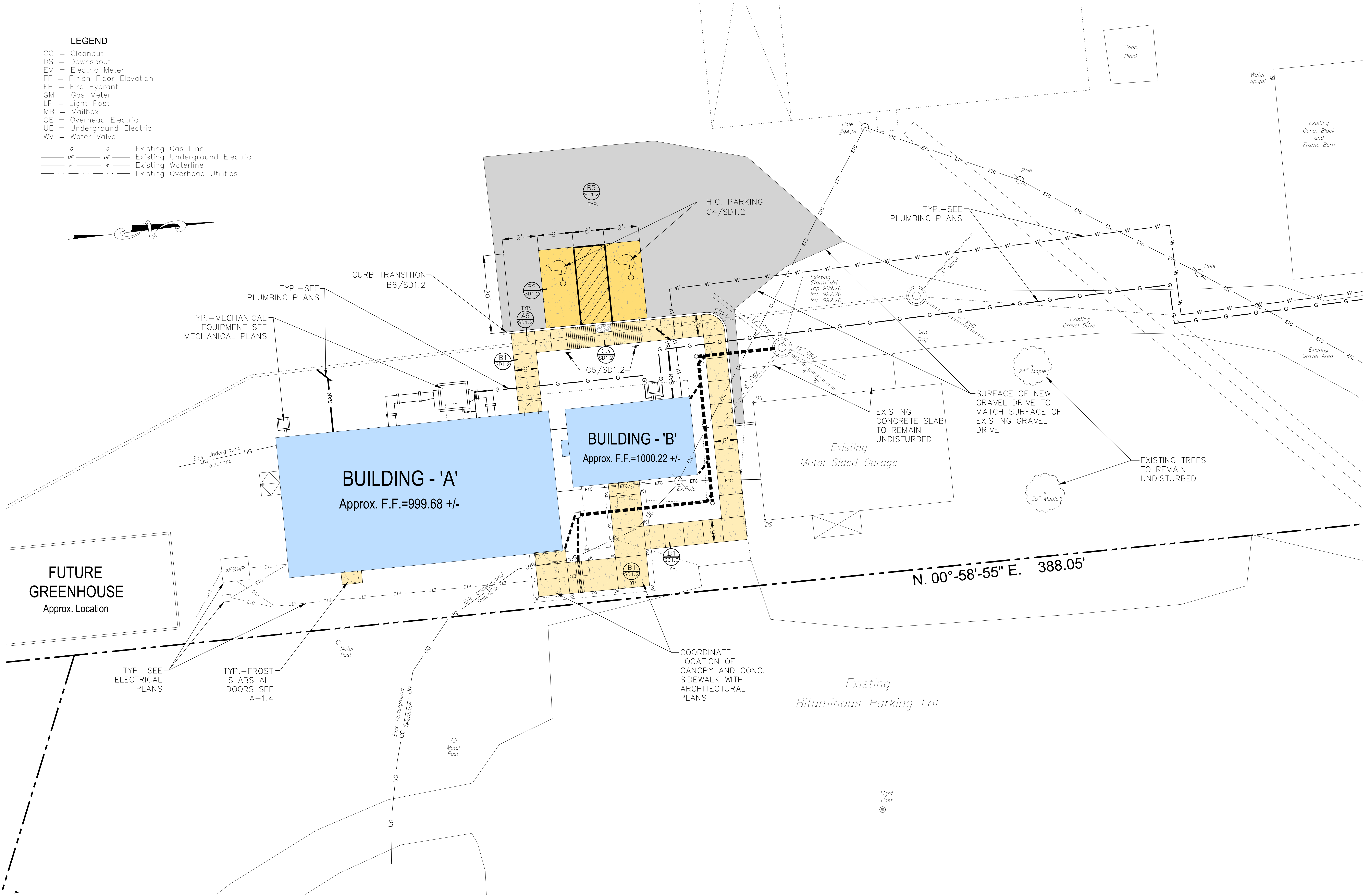
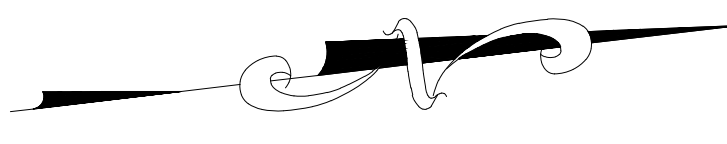
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**FUTURE GREENHOUSE**  
Approx. Location

**BUILDING - 'A'**  
Approx. F.F.=999.68 +/-

**BUILDING - 'B'**  
Approx. F.F.=1000.22 +/-

COORDINATE LOCATION OF CANOPY AND CONC. SIDEWALK WITH ARCHITECTURAL PLANS

Existing Bituminous Parking Lot

Light Post

CALL BEFORE YOU DIG!  
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL SERIAL NO. 2025112204  
Pennsylvania One Call System, Inc.  
1-800-242-1776

- NOTES:**
- ALL KNOWN EASEMENTS ARE SHOWN AS PER THE SURVEY.
  - THIS SITE IS LOCATED IN ZONE 'X' AS PER F.E.M.A. PANEL NO. 42085C03602.
  - THE EXISTING FACILITY IS SERVED BY PUBLIC WATER AND SEWER. SEE PLUMBING DRAWINGS FOR SPECIFIC LAYOUT AND DETAILS.

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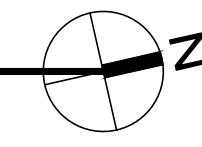
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**SITE PLAN**

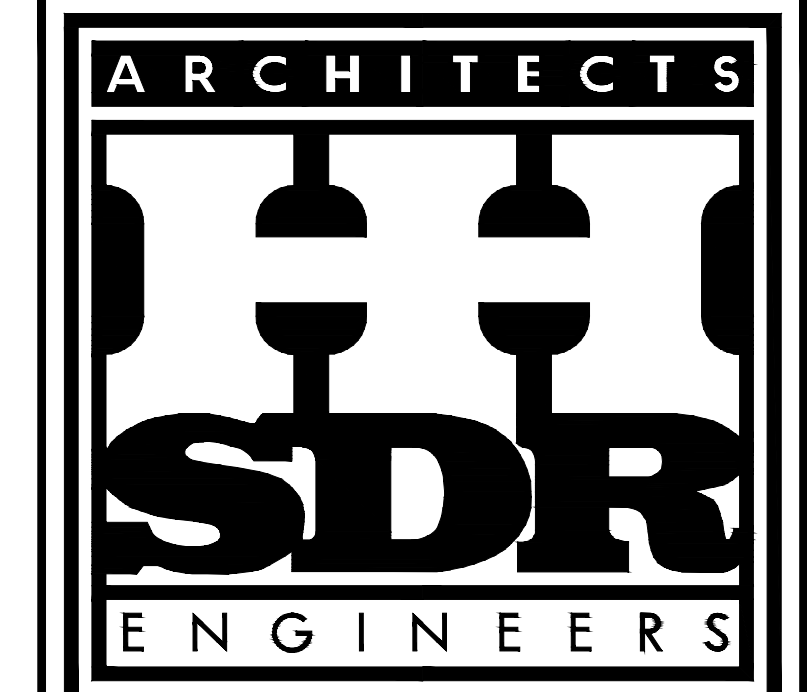
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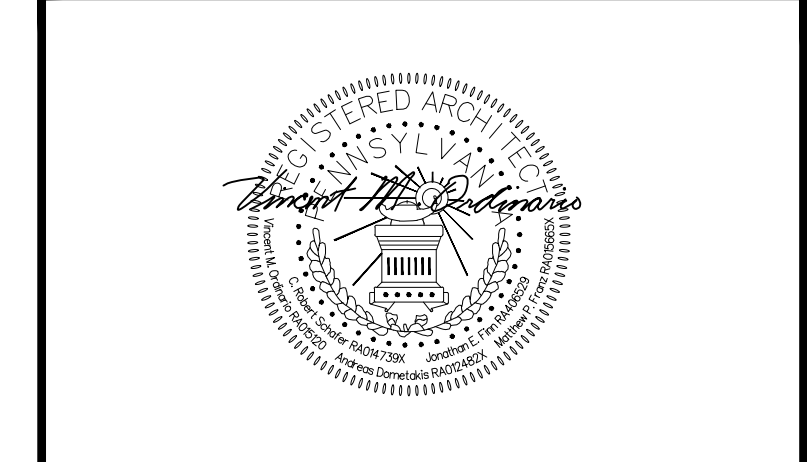
**LEGEND - (NEW)**

- CONCRETE SIDEWALK OVER NEW STONE BASE
- 8" CONCRETE SLAB AT H.C. PARKING AREA
- STANDARD DUTY GRAVEL PARKING SURFACE
- LIMIT OF CONTRACT
- LIMIT OF DISTURBANCE
- TO BE REMOVED

ZONING DISTRICT - R-1 Residential - Agricultural - Low Density



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**MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM**  
41 MUNNELL RUN LANE  
MERCER, PA 16137

FOR THE  
**MERCER COUNTY COMMISSIONERS**  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

**SITE PLAN**

COMM. NO. 4826  
DATE 05/29/26  
SHEET NO. SP-1.1  
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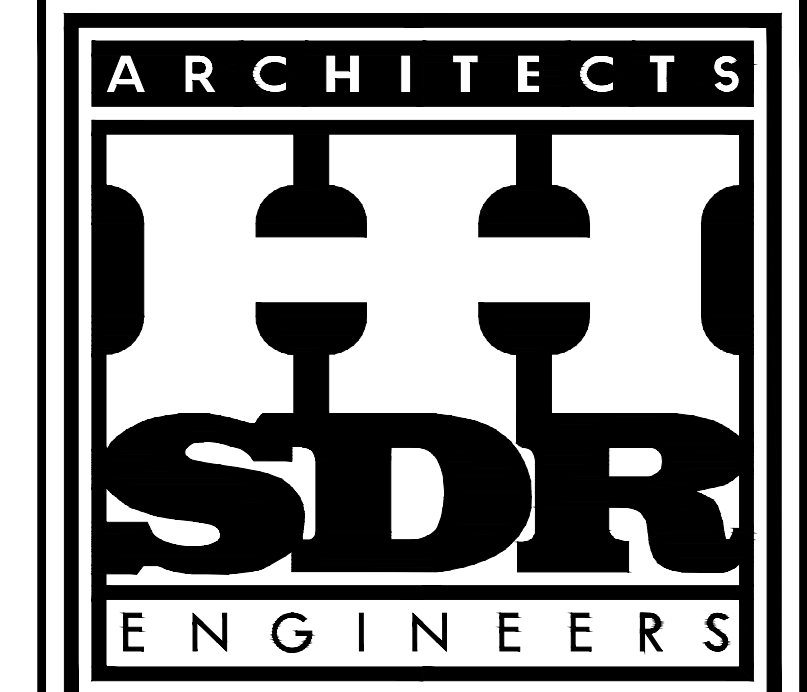
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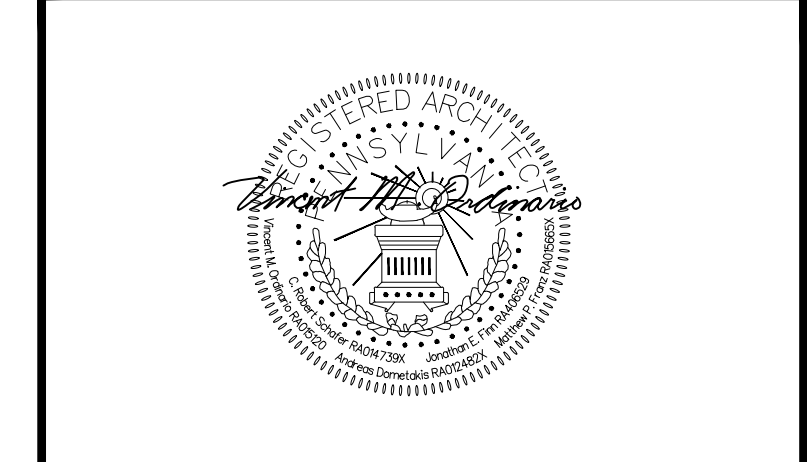
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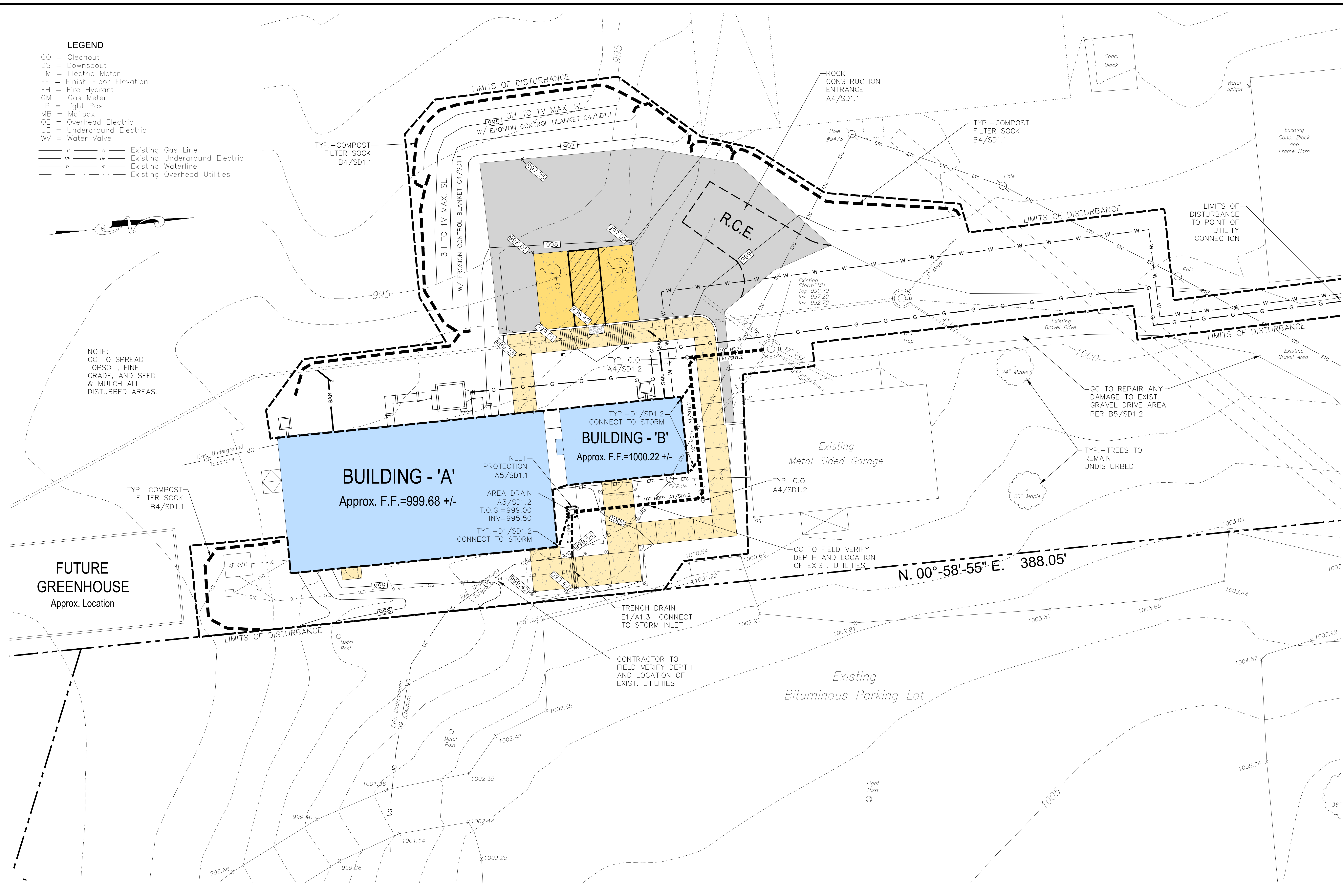


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MERCER, PA 16137

FOR THE  
**MERCER COUNTY COMMISSIONERS**  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

**SITE GRADING PLAN**

COMM. NO. 4826  
DATE 05/29/26  
SHEET NO. SP-1.2  
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NOTE:  
GC TO SPREAD  
TOPSOIL, FINE  
GRADE, AND SEED  
& MULCH ALL  
DISTURBED AREAS.

**FUTURE GREENHOUSE**  
Approx. Location

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Serial No. 2026112204  
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**LEGEND - (NEW)**

	CONCRETE SIDEWALK OVER NEW STONE BASE		8" CONCRETE SLAB AT H.C. PARKING AREA
	STANDARD DUTY GRAVEL PARKING SURFACE		LIMIT OF CONTRACT
	LIMIT OF DISTURBANCE TO BE REMOVED		PROPOSED CONTOUR
	NEW SPOT ELEVATION		

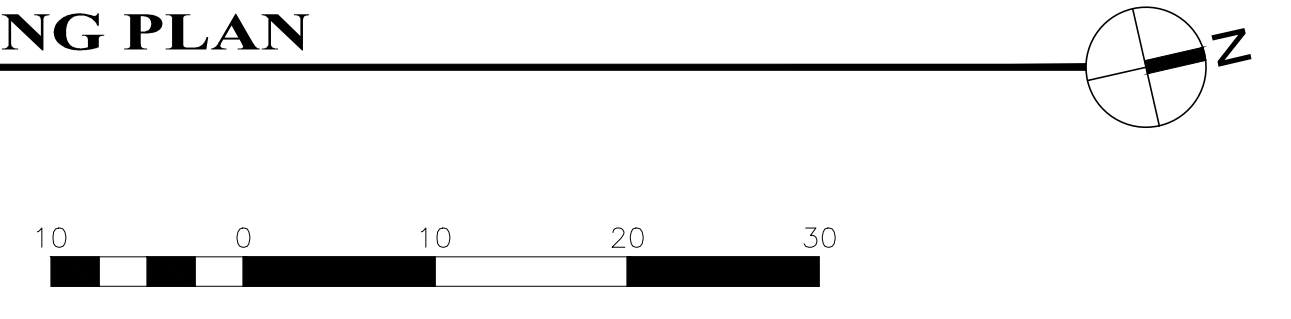
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Mercer, PA 16137  
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**SITE GRADING PLAN**

1" = 10'-0"



REVISIONS

NOTES

TEMPORARY CONTROL MEASURES

A. ROCK CONSTRUCTION ENTRANCE

A ROCK CONSTRUCTION ENTRANCE WILL BE PROVIDED AT THE LOCATIONS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE STANDARD DETAIL.

INSTALLATION: TO CONSTRUCT THE PAD, PLACE A LAYER OF TWO (2) TO THREE (3) INCHES OF AASHTO NO. 1 STONE ACROSS THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA. THE STONE PAD SHOULD BE AT LEAST FIFTY (50) FEET IN LENGTH, TWENTY (20) FEET IN WIDTH, AND EIGHT (8) INCHES THICK.

MAINTENANCE: ADDITIONAL STONE MAY HAVE TO BE ADDED PERIODICALLY TO MAINTAIN THE PROPER FUNCTIONING OF THE PAD. IF THE CRUSHED STONE DOES NOT ADEQUATELY REMOVE THE MUD FROM VEHICLE TIRES, THE TIRES SHOULD BE HOSED OFF BEFORE THE VEHICLE ENTERS A PUBLIC STREET. THE WASHING SHOULD BE DONE ON AN AREA COVERED WITH CRUSHED STONE, AND THE WASH WATER SHOULD DRAIN TO A SEDIMENT CONTROL DEVICE.

B. FILTER BAG INLET PROTECTION

FILTER BAG INLET PROTECTION CONSISTING OF SILT SACKS WILL BE PROVIDED AT ALL STORM SEWER INLETS AS THEY ARE INSTALLED TO FILTER SEDIMENT-LADEN WATER PRIOR TO ENTERING THE STORM SEWER SYSTEM.

INSTALLATION: THE SILT SACKS SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE: ALL SILT SACKS SHALL BE CLEANED AND/OR REPLACED WHEN THE BAG IS ONE-HALF (1/2) FULL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL DAMAGED SILT SACKS SHALL BE REPLACED. THE ACCUMULATED SEDIMENT SHALL BE DISTRIBUTED EVENLY AMONG THE SITE AND STABILIZED.

C. STONE AND CONCRETE BLOCK INLET PROTECTION

STONE AND CONCRETE BLOCK INLET PROTECTION WILL BE PROVIDED AT ALL STORM SEWER INLETS THAT ARE LOCATED WITHIN THE RAIN GARDENS, AS THEY ARE INSTALLED TO FILTER SEDIMENT-LADEN WATER PRIOR TO ENTERING THE STORM SEWER SYSTEM.

INSTALLATION: THE STONE AND CONCRETE BLOCK INLET PROTECTION SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE STANDARD DETAIL.

MAINTENANCE: ADDITIONAL STONE MAY HAVE TO BE ADDED PERIODICALLY TO MAINTAIN THE PROPER FUNCTIONING OF THE INLET PROTECTION. ALL DAMAGED CONCRETE BLOCKS SHALL BE REPLACED. THE ACCUMULATED SEDIMENT SHALL BE DISTRIBUTED EVENLY AMONG THE SITE AND STABILIZED.

D. EROSION CONTROL BLANKET

THE NORTH AMERICAN GREEN SCI505EN EROSION CONTROL BLANKET OR APPROVED EQUAL SHALL BE INSTALLED ON ALL SLOPES GREATER THAN 3:1 IN THE LOCATIONS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE STANDARD DETAIL.

INSTALLATION: 1.) INSTALL THE EROSION CONTROL BLANKETS IN TEN (10) FOOT VERTICAL INCREMENTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

2.) USE STAPLE PATTERN D FOR ALL BLANKET INSTALLATIONS AS PER THE MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE: ALL DAMAGED SECTIONS OF THE EROSION CONTROL BLANKET SHALL BE REPLACED.

E. COMPOST FILTER SOCK

COMPOST FILTER SOCK SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE STANDARD DETAIL.

INSTALLATION: 1.) ALL MATERIAL IS TO MEET COMPOST FILTER SOCK SPECIFICATIONS OR APPROVED EQUAL.

2.) SUPPORT STAKES WILL BE DRIVEN INTO THE CENTER OF THE COMPOST FILTER SOCK AT THE REQUIRED DEPTH BELOW THE GROUND SURFACE AT THE SPECIFIED INTERVALS.

3.) LOOSE COMPOST MAY BE BACKFILLED ALONG THE UPSLOPE OF THE COMPOST FILTER SOCK FILLING IN THE SEAM BETWEEN THE SOCK SURFACE AND THE DEVICE, WHICH WILL IMPROVE FILTRATION AND SEDIMENT RETENTION.

MAINTENANCE: 1.) THE COMPOST FILTER SOCK SHALL BE INSPECTED AFTER EVERY PRECIPITATION EVENT. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.

2.) REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE COMPOST FILTER SOCK WHEN ACCUMULATION HAS REACHED ONE-HALF (1/2) OF THE EFFECTIVE HEIGHT OF THE COMPOST FILTER SOCK. ALTERNATELY, A SECOND COMPOST FILTER SOCK CAN BE PLACED ON TOP OF AND SLIGHTLY BEHIND THE ORIGINAL ONE TO CREATE MORE STORAGE CAPACITY WITHOUT SOIL DISTURBANCE.

3.) ADHERE TO ANY MANUFACTURER'S RECOMMENDATIONS FOR REPLACING SILTSOXX DUE TO WEATHERING.

F. TEMPORARY CONSTRUCTION FENCE

TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE STANDARD DETAIL.

INSTALLATION: 1.) THE TEMPORARY CONSTRUCTION FENCE SHALL BE SECURELY FASTENED WITH WIRE OR ZIP TIES TO THE TOP, MIDDLE AND BOTTOM OF EACH STEEL POST.

2.) ALL STEEL POSTS ARE TO BE DRIVEN 18-INCHES BELOW FINISHED GRADE.

MAINTENANCE: REPAIR AND/OR REPLACE THE TEMPORARY CONSTRUCTION FENCE IMMEDIATELY WHERE ANY WEAR, SAGS, GAPS, RIPS AND/OR TEARS ARE FOUND.

G. TEMPORARY VEGETATIVE STABILIZATION

INSTALLATION: FERTILIZING, SEEDING, AND MULCHING WILL BE USED AS A TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURE ON NON-PAVED DISTURBED AREAS. EXPOSED SOILS, NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL NOT REMAIN UNSEEDED OR COVERED BY MULCH FOR MORE THAN TWENTY (20) DAYS, INCLUDING STOCKPILED SOIL MATERIALS. WITH REGARD TO THE TEMPORARY SEED MIX, REFER TO THE SEEDING SCHEDULE TABLE, WITH REGARD TO SOIL PREPARATION AND SEEDING, REFER TO THE SEEDING NOTES.

MAINTENANCE: SEEDS AND VEGETATED AREAS SHALL BE CHECKED REGULARLY TO INSURE THAT A GOOD STAND OF VEGETATION IS ACHIEVED AND MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDED AS NECESSARY.

PERMANENT CONTROL MEASURES

A. PERMANENT VEGETATIVE STABILIZATION

INSTALLATION: FERTILIZING, SEEDING, AND MULCHING WILL BE USED AS A PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURE ON ALL NON-PAVED DISTURBED AREAS, WITH REGARD TO THE PERMANENT SEED MIX, REFER TO THE SEEDING SCHEDULE TABLE, WITH REGARD TO SOIL PREPARATION AND SEEDING, REFER TO THE SEEDING NOTES.

MAINTENANCE: SEEDS AND VEGETATED AREAS SHALL BE CHECKED REGULARLY TO INSURE THAT A GOOD STAND OF VEGETATION IS ACHIEVED AND MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDED AS NECESSARY.

CLEAN FILL REQUIREMENTS

THE OPERATOR(S) WILL BE RESPONSIBLE TO PERFORM ENVIRONMENTAL DUE DILIGENCE AND DETERMINE THAT ALL FILL IMPORTED TO THE SITE MEETS THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S (DEP) DEFINITION OF CLEAN FILL. CLEAN FILL CAN NOT BE PLACED IN OR ON WATERS OF THE COMMONWEALTH.

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOR IN DEP'S POLICY "MANAGEMENT OF FILL".

ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF A REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF DEP'S POLICY "MANAGEMENT OF FILL".

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH DEP'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON PA CODE CHAPTER 280. RESIDUAL WASTE MANAGEMENT, OR CHAPTER 271, MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

THE CONTRACTOR MUST DEVELOP, AND HAVE APPROVED BY THE MERCER COUNTY CONSERVATION DISTRICT (TELEPHONE: 724-662-2242), A SEPARATE EROSION AND SEDIMENTATION CONTROL PLAN FOR EACH SPOIL, BORROW OR OTHER WORK AREA NOT DETAILED ON THE APPROVED PLAN, WHETHER LOCATED WITHIN OR OUTSIDE OF THE CONSTRUCTION LIMITS.

RECYCLING / DISPOSAL OF WASTE REQUIREMENTS

ALL CONSTRUCTION/DEMOLITION WASTE MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS § AT 29 PA. CODE 2601 ET. SEQ. & 2801 ET. SEQ. THIS INCLUDES SOLID WASTE REGULATIONS FROM THE CONSTRUCTION OR DEMOLITION OF BUILDINGS OR OTHER STRUCTURES, INCLUDING, BUT NOT LIMITED TO: WOOD, PLASTER, METALS, ASPHALT, SUBSTANCES, BRICKS, BLOCK AND SEGREGATED CONCRETE. THIS DOES NOT INCLUDE: UNCONTAMINATED SOIL, ROCK, STONE, GRAVEL, BRICK, BLOCK, CONCRETE, USED ASPHALT, WASTE FROM LAND CLEARING, GRUBBING AND EXCAVATION, INCLUDING TREES, BRUSH, STUMPS AND VEGETATIVE MATERIAL, IF THEY ARE SEPARATE FROM OTHER WASTE AND ARE USED AS FILL.

SEQUENCE OF OPERATIONS:

- 1.) NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM, INC. AT LEAST THREE (3) DAYS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY. 1-800-272-1776. MARK ALL EXISTING UNDERGROUND UTILITY LINES.
2.) LAYOUT THE LIMITS OF THE PROPOSED PAVEMENT WORK.
3.) INSTALL FILTER BAG INLET PROTECTION AT ALL EXISTING INLETS ADJACENT TO WORK, SHOWN AS SHOWN ON PLAN.
4.) INSTALL THE COMPOST FILTER SOCK ALONG THE FULL LENGTH OF THE DOWNSLOPE SIDE OF THE WORK AREAS AS SHOWN, AND IN ACCORDANCE WITH THE STANDARD DETAIL. INSTALL ROCK CONSTRUCTION ENTRANCES AS INDICATED.
5.) COMPLETE ALL RELOCATION/INSTALLATION OF UTILITIES AS INDICATED ON ALL PLANS.
6.) BEGIN INTERIOR BUILDING IMPROVEMENTS.
7.) BEGIN CONSTRUCTION OF CANOPY AND NEW CONCRETE.
8.) PLACE NEW CONCRETE/PAVEMENT AS INDICATED. PREPARE SUBBASE AND BEGIN PAVING AS PER PLANS, DETAILS, AND SPECIFICATIONS.
9.) REMOVE ACCUMULATED SEDIMENT FROM ALL TEMPORARY EROSION CONTROL DEVICES AND DISPOSE AT AN APPROVED LOCATION.
10.) REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETE STABILIZATION.

GENERAL EROSION & SEDIMENT CONTROL NOTES

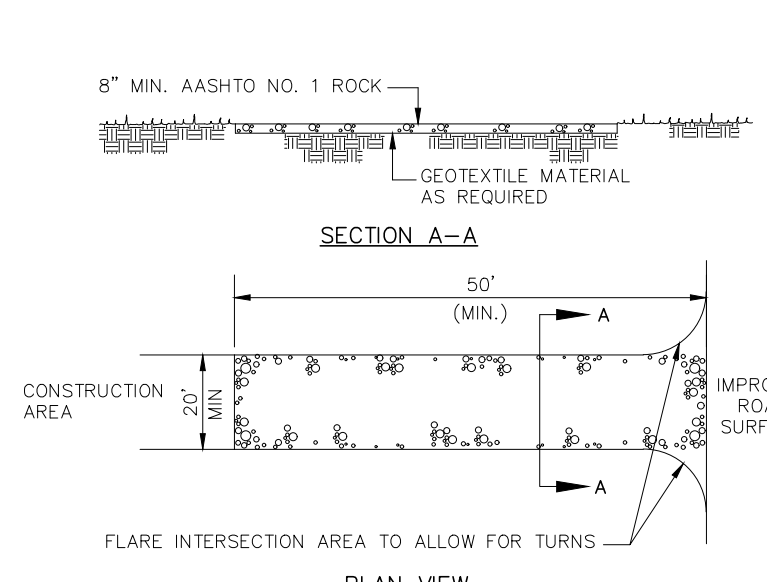
- 1.) ONLY LIMITED UP-SLOPE DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO ANY EROSION AND SEDIMENT CONTROL MEASURES FOR GRADING AND ACQUIRING BORROW TO CONSTRUCT THOSE CONTROLS AS REQUIRED.
2.) EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE GENERAL SITE DISTURBANCE WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.
3.) AFTER A UNIFORM 70% PERENNIAL VEGETATIVE COVER HAS BEEN ACHIEVED, REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS. AREAS DISTURBED DURING REMOVAL OF THESE CONTROLS MUST BE STABILIZED.
4.) VEHICLES MAY ONLY ENTER AND EXIT AT THE LOCATION OF APPROVED ROCK CONSTRUCTION ENTRANCE.
5.) STOCK PILE HEIGHTS MUST NOT EXCEED 35 FEET NOR SHALL THE SIDE SLOPES EXCEED 2:1. STOCK PILES SHALL BE LOCATED ON SITE BY THE CONTRACTOR AT LOCATIONS APPROVED BY THE COUNTY CONSERVATION DISTRICT.
6.) UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH STORM EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND REINERTING MUST BE PERFORMED IMMEDIATELY.
7.) FILTER FABRIC FENCE AND/OR COMPOST FILTER SOCK MUST BE INSTALLED PARALLEL TO EXISTING CONTOURS OR CONSTRUCTED LEVEL ALIGNMENTS. ENDS OF FENCING MUST EXTEND 10', TRAVELING UP-SLOPE AT 45° TO THE ALIGNMENT OF THE MAIN FENCING SECTION.
8.) SEDIMENT ACCUMULATIONS MUST BE REMOVED WHERE ACCUMULATIONS REACH ONE-HALF THE ABOVE GROUND HEIGHT OF THE FILTER FABRIC FENCE.
9.) ANY FILTER FABRIC FENCE THAT HAS BEEN UNDERMINED OR TOPPED MUST BE REPLACED WITHIN 72 HOURS OF FAILURE.
10.) ALL STORM WATER INLETS MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED. INLETS WHICH DO NOT DISCHARGE TO A SEDIMENT TRAP OR SEDIMENT BASIN MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED.
11.) ALL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF EVENT.
12.) ANY DIVERSION CHANNELS, DIVERSION BERMS AND STOCKPILES MUST BE SEEDED AND MULCHED IMMEDIATELY.
13.) THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS INCLUDED ON THIS PLAN.
14.) SHOULD ANY MEASURES CONTAINED WITHIN THIS PLAN PROVE INCAPABLE OF ADEQUATELY REMOVING SEDIMENT FROM ON-SITE FLOWS PRIOR TO DISCHARGE OR STABILIZING THE SURFACES INVOLVED, ADDITIONAL MEASURES MUST BE IMMEDIATELY IMPLEMENTED BY THE APPLICANT TO ELIMINATE ALL SUCH PROBLEMS.
15.) SHOULD UNFORESEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT. DISTRICTS OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
16.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING TREES AND SHRUBS TO REMAIN FROM UNNECESSARY DAMAGE.
17.) A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLANS MUST BE POSTED AT THE CONSTRUCTION SITE AT ALL TIMES IN ACCORDANCE WITH THE LAWS OF THE COMMONWEALTH OF PENNSYLVANIA.
18.) THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 6A, EROSION CONTROLS AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
19.) THE EROSION AND SEDIMENT CONTROL PLAN AND NARRATIVE ARE FOR THE INSTALLATION, MAINTENANCE AND MEASURES TO CONTROL EROSION AND SEDIMENTATION ONLY. REFER TO APPROPRIATE PLAN SHEETS FOR ALL UTILITY, STORMWATER, SITE IMPROVEMENT AND OTHER CONSTRUCTION INFORMATION.
20.) THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND MAKE SURE SITES RECEIVING THE EXCESS HAS AN APPROVED EROSION CONTROL PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102 AND/OR OTHER STATE, FEDERAL REGULATIONS.
21.) THE CONTRACTOR MUST ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED WEEKLY AND AFTER EACH PRECIPITATION EVENT BY A QUALIFIED PERSON TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL, TO ASCERTAIN THAT THE BMP'S ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION TO THE WATERS OF THE COMMONWEALTH. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT AND INCLUDE:
A.) SUMMARY OF SITE CONDITION, BMP'S (BEST MANAGEMENT PRACTICES) AND COMPLIANCE
B.) THE DATE, TIME AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION.
22.) IF BMP'S ARE FOUND TO BE INOPERATIVE OR INEFFECTIVE DURING AN INSPECTION, OR ANY OTHER TIME, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE MERCER COUNTY CONSERVATION DISTRICT (TELEPHONE: 724-662-2242). DOCUMENTATION SHOULD INCLUDE WHAT STEPS ARE BEING TAKEN TO REDUCE, ELIMINATE AND PREVENT RECURRENCE OF THE PROBLEM.
23.) THE CONTRACTOR SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR ENVIRONMENT.

SEEDING NOTES

- SOIL PREPARATION AND SEEDING PROCEDURES, TO BE APPLIED IN THE ORDER PRESENTED, ARE AS FOLLOWS:
1.) UNLESS APPROVED SOIL TEST RESULTS INDICATE OTHERWISE, EVENLY APPLY THE FOLLOWING SOIL AMENDMENTS:
• 100 POUNDS PER ACRE UREAFORM SLOW-RELEASE NITROGEN FERTILIZER •
• 200 POUNDS PER ACRE DIAMMONIUM PHOSPHATE •
• 200 POUNDS PER ACRE MURIATE OF POTASH •
• 8,000 POUNDS PULVERIZED AGRICULTURAL LIMESTONE •
• 4 POUNDS PER ACRE BIO-PAK MICROBIAL INOCULANT •
2.) WHERE SLOPES PERMIT, PROMPTLY DISK ALL AMENDMENTS UNDER A 3 TO 6-INCH DEPTH. WHERE SLOPES DO NOT PERMIT TILLAGE, TRACK SLOPE WITH A DOZER AS DESCRIBED UNDER SEEDING PREPARATION. ON EXTREMELY STEEP SLOPES, AMENDMENTS MAY BE APPLIED WITH THE SEED AND MULCH USING A HYDRO SEEDER AS LONG AS SEED AND INOCULANT IS NOT IN A SLURRY WITH FERTILIZERS FOR MORE THAN ONE HOUR.
3.) PROMPTLY AND EVENLY APPLY STRAW (NOT HAY) MULCH AT A RATE OF 3 TONS PER ACRE USING A BALE-BUSTER OR USING A WOOD CELLULOSE FIBER (NOT PAPER PULP) HYDROMULCH AT A RATE OF 2,500 POUNDS PER ACRE. CELLULOSE STRAW INTO PLACE USING ONE OF THE FOLLOWING METHODS:
1.) APPLY 800 TO 1,000 POUNDS PER ACRE APPLICATION OF WOOD CELLULOSE FIBER MULCH WITH A HYDROSEEDER OVER THE STRAW. OR
2.) USE A CRIMPER DISK (A SPECIALLY-DESIGNED HEAVY DISK WITH NO OFFSET TO THE DIRECTION OF TRAVEL). MAKE MULTIPLE PASSES WITH THE CRIMPER AS NECESSARY TO SECURE THE STRAW.
• NOTE: SLOW-RELEASE FERTILIZER AND BIOPAK INOCULANT ARE NOT NEEDED FOR TEMPORARY SEEDING. BIOPAK WATER SOLUBLE POWDER IS A MIXTURE OF BENEFICIAL NITROGEN-FIXING AND PHOSPHORUS-SOLUBILIZING BACTERIA (180 BILLION CFU PER POUND) COMBINED WITH PROBIOTIC INGREDIENTS, AS MANUFACTURED BY PLANT HEALTH CARE, INC., 440 WILLIAM PITT WAY, PITTSBURGH, PENNSYLVANIA 15238; 1-800-421-9051 OR APPROVED EQUAL.

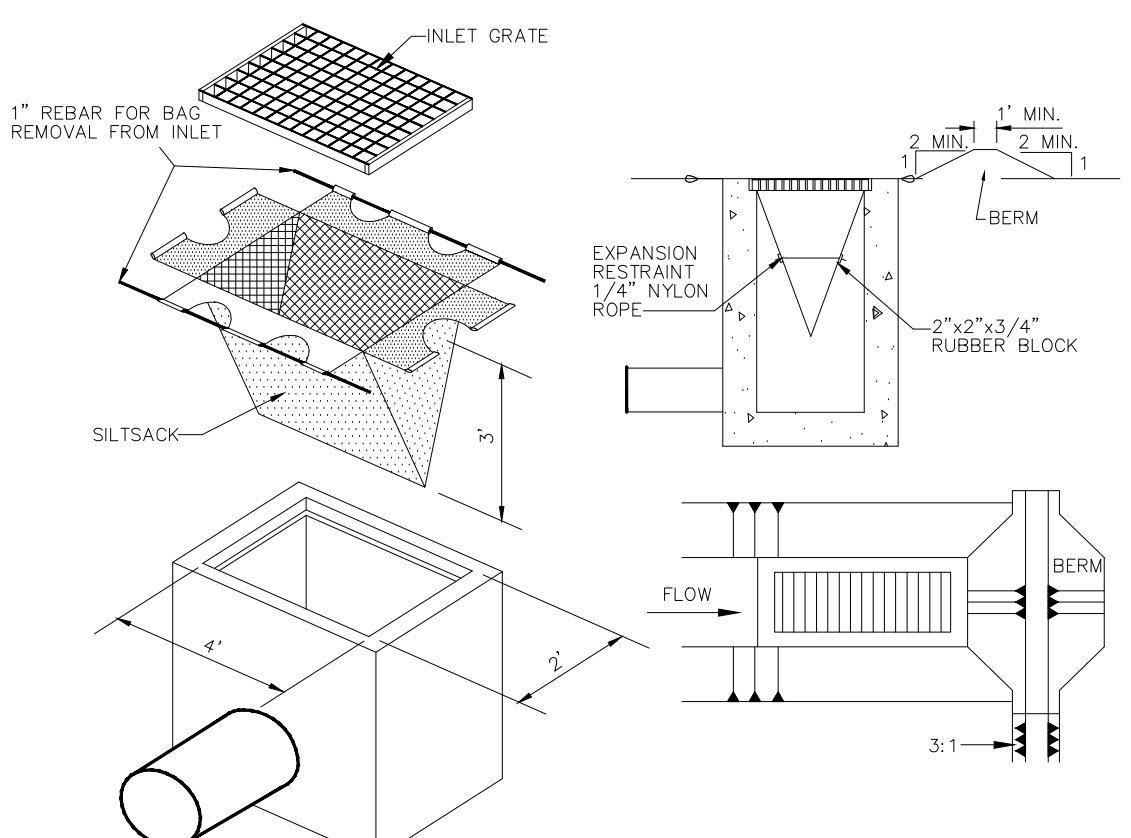
MAINTENANCE PROGRAM

- 1.) ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT TO MAINTAIN THEIR EFFECTIVENESS. ANY DAMAGED CONTROLS SHALL BE REPAIRED OR REPLACED BY THE END OF THE WORKING DAY.
2.) ADDITIONAL STONE SHALL BE ADDED TO THE ROCK CONSTRUCTION ENTRANCE AS NEEDED TO MAINTAIN ITS THICKNESS. THE CONTRACTOR SHALL PROVIDE A WATER SOURCE TO WASH THE TRUCK TIRES IF NECESSARY.
3.) ALL SLOPES SHALL BE CHECKED FOR SIGNS OF EROSION AND/OR SEDIMENTATION.
4.) ALL DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN THE EFFECTIVENESS OF THE CONTROLS. ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED AS NEEDED.
5.) ALL FILTER BAG INLET PROTECTION (SILT SACKS) SHALL BE CLEANED AND/OR REPLACED WHEN THE BAG IS ONE-HALF (1/2) FULL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL DAMAGED SILT SACKS SHALL BE REPLACED. THE ACCUMULATED SEDIMENT SHALL BE DISTRIBUTED EVENLY AMONG THE SITE AND STABILIZED.
6.) ADDITIONAL STONE MAY HAVE TO BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTIONING OF THE STONE AND CONCRETE BLOCK INLET PROTECTION. ALL DAMAGED CONCRETE BLOCKS SHALL BE REPLACED. THE ACCUMULATED SEDIMENT SHALL BE DISTRIBUTED EVENLY AMONG THE SITE AND STABILIZED.
7.) DURING CONSTRUCTION, SEDIMENT REMOVED FROM THE EROSION CONTROL DEVICES SHALL BE DISPOSED OF BY SPREADING IT ONSITE. ONCE A UNIFORM 70% PERENNIAL VEGETATIVE COVER IS ESTABLISHED AND THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE REMOVED, ALL ACCUMULATED SEDIMENTS SHALL BE DISPOSED OFFSITE AT A PADEP APPROVED FACILITY.
8.) ALL SITE ENTRANCE AND EXIT POINTS SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE TRACKING OF MUD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN STREETS OF MUD AND KEEP THE STREETS IN A CLEAN AND DUST-FREE CONDITION.
9.) SEEDS AND VEGETATED AREAS SHALL BE CHECKED REGULARLY TO INSURE THAT A GOOD STAND OF VEGETATION IS ACHIEVED AND MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDED AS NECESSARY.
10.) REPLACE ANY DAMAGED SECTIONS OF THE EROSION CONTROL BLANKETS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE STANDARD DETAIL.
11.) REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE COMPOST FILTER SOCK WHEN ACCUMULATION HAS REACHED ONE-HALF (1/2) OF THE EFFECTIVE HEIGHT OF THE COMPOST FILTER SOCK. THE ACCUMULATED SEDIMENT SHALL BE DISTRIBUTED EVENLY AMONG THE SITE AND STABILIZED.
12.) REPAIR AND/OR REPLACE THE TEMPORARY CONSTRUCTION FENCE IMMEDIATELY WHERE ANY WEAR, SAGS, GAPS, RIPS AND/OR TEARS ARE FOUND.
13.) THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INSPECTIONS.



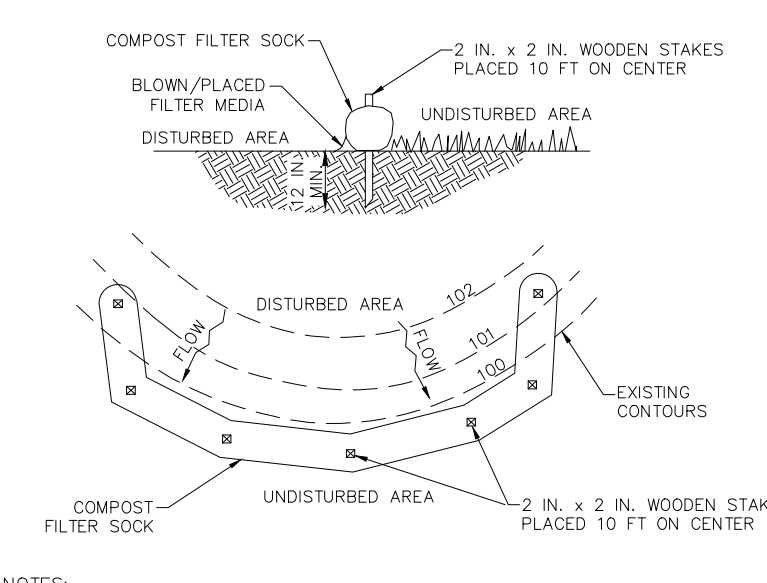
- NOTES:
1.) ROCK CONSTRUCTION ENTRANCES SHALL BE PLACED AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS AND CONSTRUCTED TO THE MINIMUM PERMITTED PUBLICATION FOR.
2.) ROCK SHALL BE AASHTO NO.1 AS SPECIFIED IN SECTION 703.2 OF THE STANDARD SPECIFICATIONS.
3.) FOR INSTALLATION ON CLAYEY OR POORLY DRAINING SOILS, A GEOTEXTILE FABRIC UNDERLAYMENT OF A TYPE RECOMMENDED FOR SUCH APPLICATIONS BY THE MANUFACTURER, SHALL BE USED.
4.) MAINTENANCE: THE ROCK CONSTRUCTION ENTRANCE SHALL BE REDRESSED WHEN Voids BECOME CHECKED WITH SEDIMENT. THE STRUCTURES THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY CLEANING OR ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS, DRIVEWAYS, SIDEWALKS, AND TRAILS SHALL BE REMOVED. THE CONSTRUCTION SITE, WASHING OF THE ROADWAY WITH WATER IS NOT PERMITTED.
5.) ALL SITE ENTRANCE AND EXIT POINTS SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE TRACKING OF MUD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN STREETS OF MUD AND KEEP THE STREETS IN A CLEAN AND DUST-FREE CONDITION.
6.) REPLACE ANY DAMAGED SECTIONS OF THE EROSION CONTROL BLANKETS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE STANDARD DETAIL.
7.) REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE COMPOST FILTER SOCK WHEN ACCUMULATION HAS REACHED ONE-HALF (1/2) OF THE EFFECTIVE HEIGHT OF THE COMPOST FILTER SOCK. THE ACCUMULATED SEDIMENT SHALL BE DISTRIBUTED EVENLY AMONG THE SITE AND STABILIZED.
8.) REPAIR AND/OR REPLACE THE TEMPORARY CONSTRUCTION FENCE IMMEDIATELY WHERE ANY WEAR, SAGS, GAPS, RIPS AND/OR TEARS ARE FOUND.
9.) THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INSPECTIONS.

DETAIL ROCK CONSTRUCTION ENTRANCE A4 SD1.1



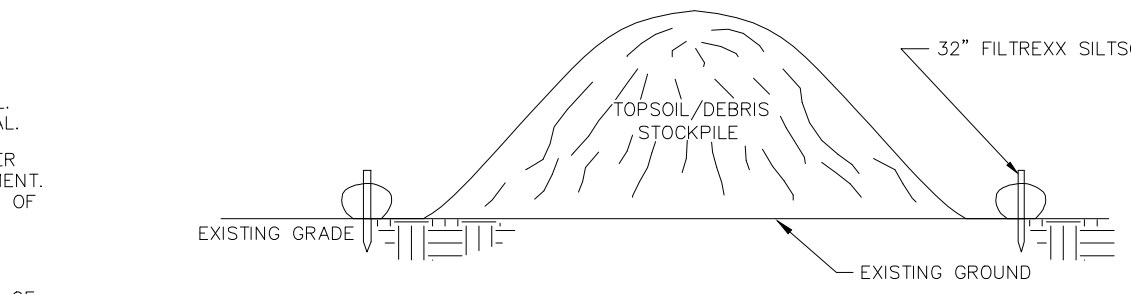
- NOTES:
1.) FILTER BAG INLET PROTECTION TO BE USED ON ALL EXISTING INLETS AND PROPOSED TYPE M STRUCTURES. MAXIMUM DRAINAGE AREA=1/2 ACRE.
2.) INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS REQUIRED FOR ALL INSTALLATIONS.
3.) EXPANSION BEAM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BEAM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. CARBON BEAM IN ROADWAY SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.
4.) ALL FINE LINES AND EVENT MARKINGS SHALL BE REPAINTED TO MATCH EXISTING TOPOIDS, COLORS, WIDTHS.

DETAIL FILTER BAG INLET PROTECTION A5 SD1.1



- NOTES:
1.) SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST FILTER SOCKS SHALL BE PLACED AT EXISTING LEVEL GRADE, BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP-SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
2.) ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
3.) COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
4.) BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 18 MONTHS. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
5.) UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE LEFT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

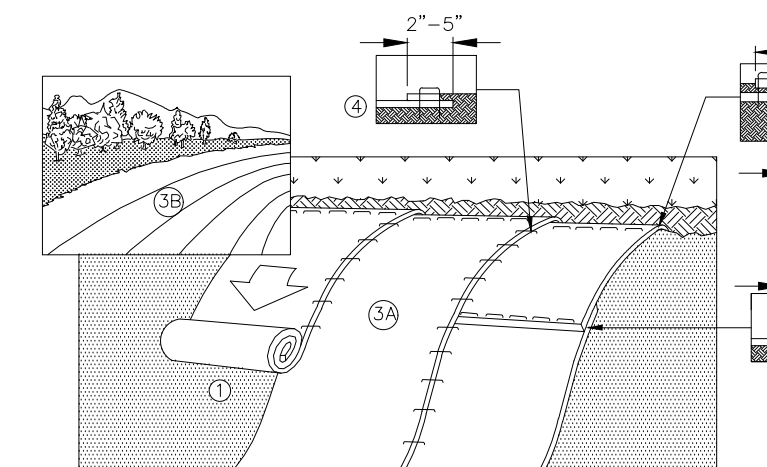
DETAIL COMPOST FILTER SOCK B4 SD1.1



- NOTES:
1.) MAXIMUM HEIGHT OF STOCKPILE SHALL NOT EXCEED 35'. MAXIMUM SLOPE TO BE GREATER THAN 3:1.

DETAIL TOPSOIL STOCKPILE DETAIL B5 SD1.1

DETAIL EROSION CONTROL BLANKET C4 SD1.1



- 1.) PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2.) BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP 8" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. AND/OR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REWARDING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3.) ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERNS.
4.) THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP.
5.) CONSECUTIVE BLANKETS SPACED DOWN THE SLOPE MUST BE PLACED END OVER END (ORANGE STIPL) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
NOTE:
\*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 12" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

DETAIL EROSION CONTROL BLANKET C4 SD1.1

GENERAL NOTES:

The Contractor is responsible to repair and/or regrade any areas damaged/disturbed while performing work under this contract, including but not limited to, drives, curbs, lawn areas, etc. All disturbed lawn areas must be topdressed, mulched and seeded in the same day as disturbance.

UTILITY WARNING

The contractor is to use care during excavation to avoid damage to existing utilities whether or not shown on the drawings. Any damage to existing utilities must be repaired by the contractor at the contractor's expense. Any existing utilities that interfere with new utility installation must be relocated by the contractor without additional compensation.

The underground utilities shown have been located from field survey information and existing drawings. The architect, engineer, and surveyor make no guarantee that the underground utilities shown comprise all such utilities in the area either in service or abandoned. The architect and engineer further do not warrant that the underground utilities shown are in the exact location indicated although they have not physically located the underground utilities. The utility locations shown, may or may not include all utilities within the entire project.

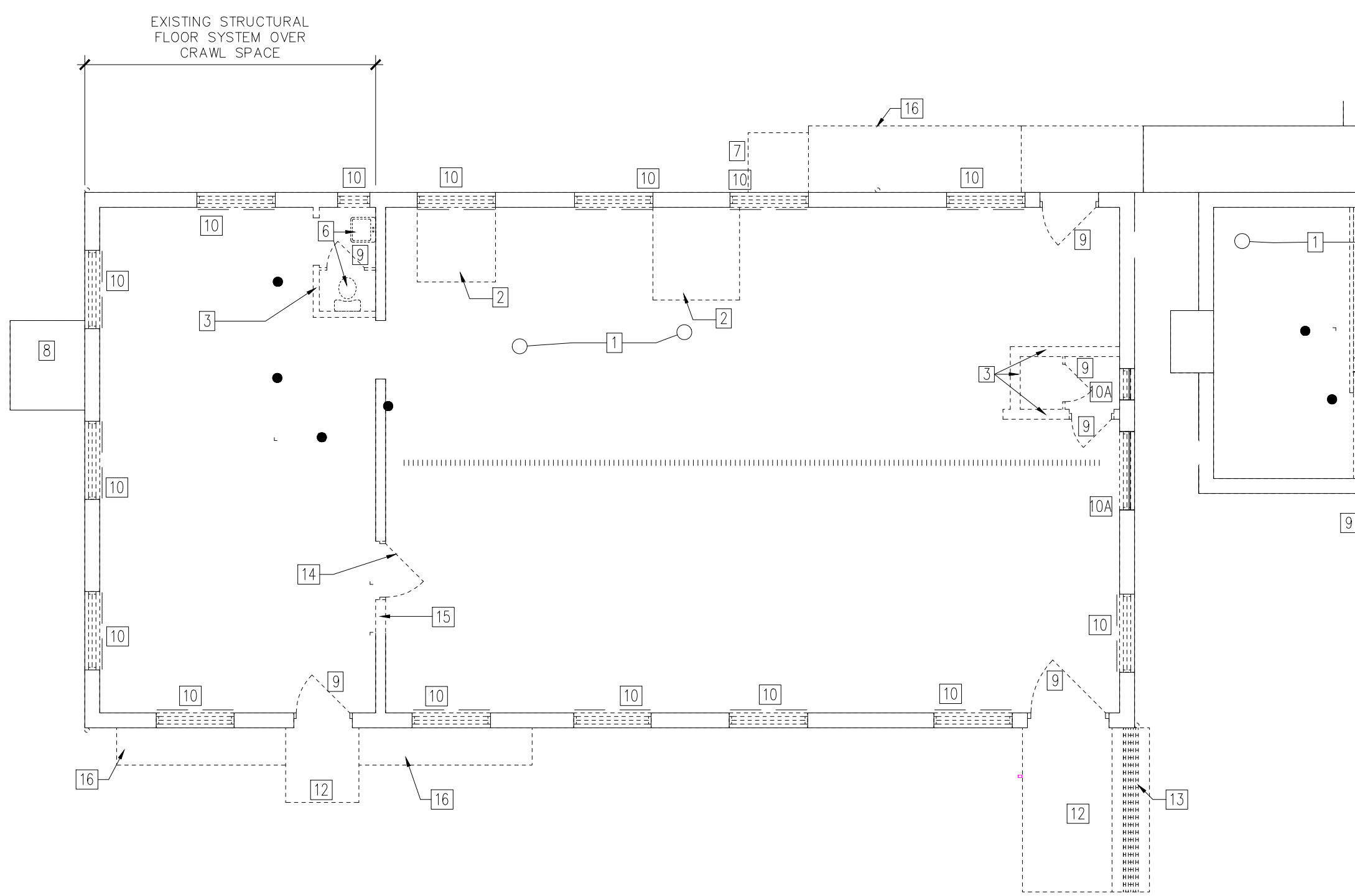
ARCHITECTS logo for J. J. SHER ENGINEERS. Address: 40 SHENAGAN AVE., SHARON, PA 16146 • (724) 981-8820. 130 SEVENTH ST., PITTSBURGH, PA 15222 • (412) 281-2280.

MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM. 41 MUNNELL RUN LANE MERCER, PA 16137. FOR THE MERCER COUNTY COMMISSIONERS 125 SOUTH DIAMOND STREET MERCER, PA 16137.

SITE DETAILS

COMM. NO. 4826. SHEET NO. SD-1.1. DATE 05/29/26. ©Copyright 2026.





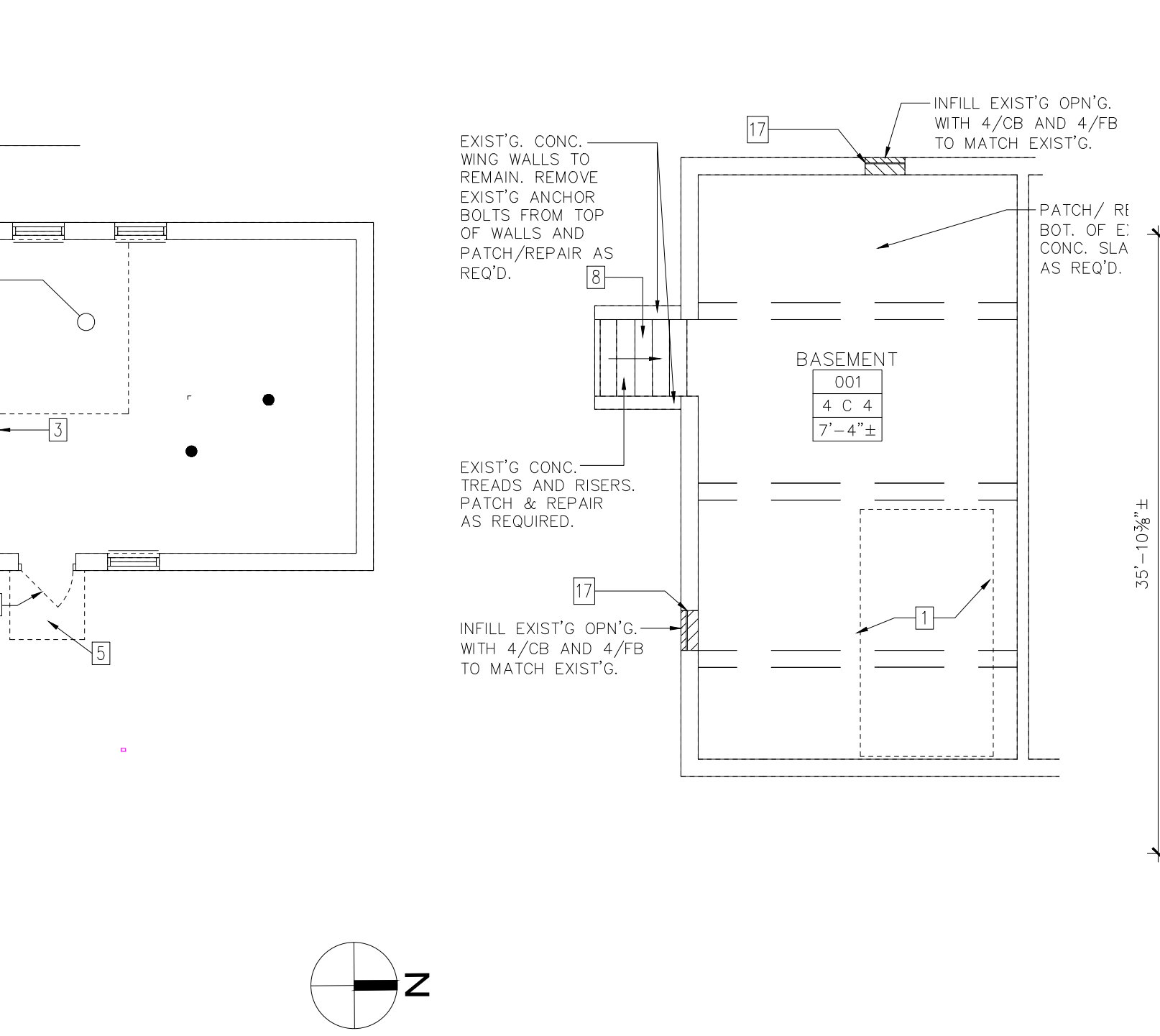
**DEMOLITION PLAN**

**GENERAL DEMOLITION NOTES**

- An attempt has been made to indicate all existing items to be removed. The contractor shall be responsible for visiting the site to determine the extent of work required to accommodate the new construction and shall be responsible for same, even though not shown on drawings.
- The G.C. shall remove all existing doors, hardware, frames, and related construction. G.C. shall patch adjacent surfaces to match new and/or existing construction. G.C. shall install new door, hardware, and frame U.O.N.
- G.C. shall remove all existing window units and related construction. The G.C. shall prepare and patch existing adjacent surfaces to match new and/or existing construction. The G.C. shall install new window unit and/or close opening to match new and/or existing construction.
- All existing stone sills and its related construction shall be removed. G.C. shall clean and prep adjacent surfaces and install new flashing and stone sills.
- G.C. shall remove all existing crawlspace access doors, openings, frames, and related construction. G.C. shall clean, patch, and prep adjacent construction and install new hollow metal access doors, frames, and hardware at each opening. U.O.N.
- Adjacent surfaces where items are removed shall be cleaned, repaired, and patched to match adjacent surfaces.
- Not used
- HVAC contractor shall remove existing unit ventilator, metal pipe covers, cabinet heaters, connectors, and floor and wall mounted fin, tube and related construction. Remove all piping as required per the HVAC drawings. Electrical contractor to modify wiring as required.
- At locations where the removal of existing walls, and equipment exposes or affects existing utilities, the HVAC contractor, plumbing contractor, and electrical contractor shall shut off, remove, relocate, modify, and/or cap existing utilities as required for new construction.
- Existing interior and/or exterior glazed brick and face brick that is removed shall be salvaged and cleaned for patching. All damaged and/or cracked brick shall be removed and replaced to match adjacent surfaces. All excess shall be salvaged for owner and/or discarded at owner's discretion.
- The G.C. shall patch all holes, openings, cracks and surface imperfections in floors, walls, and ceilings ready to receive finish. G.C. shall remove/replace damaged and/or broken concrete block and remove/repair cracked and/or loose mortar in walls. Openings in existing walls shall be filled w/ framing or masonry to match existing materials. Finish to match surface of adjacent finish. General Contractor, Electrical Contractor, Plumbing Contractor and HVAC Contractor shall be responsible for their own cutting and patching in existing construction, unless noted otherwise. No patches shall show at completion.
- Where any items are removed or demolished, the contractor shall patch to match new and/or existing construction.
- Not used
- Demolition shown on this plan is not all inclusive. See remainder of Architectural Heating, Electrical, and Plumbing drawings for additional demolition work. Incidental demolition not shown may be required for satisfactory completion of the work.

**KEY NOTES**

- 3/500 4" concrete slab on grade (3,000 PSI at interior locations) on compacted fill with 6x6x2.9 W.W.F. over vapor barrier over new and/or existing compacted 6" washed gravel fill. Note that on all interior slabs - vapor barrier shall be lapped up wall to prevent bond with concrete slab.
- 3/SCS 5 1/2" concrete structural slab (4,500 PSI A.E. broom finish at exterior locations) See section A4/A1.4.
- 3/500 (A) 8" concrete slab on grade (3,000 PSI at interior locations) on compacted fill with 2 layers of 6x6x2.9 W.W.F. over vapor barrier over new and/or existing compacted 6" washed gravel fill. Note that on all interior slabs - vapor barrier shall be lapped up wall to prevent bond with concrete slab.
- 4/CB Concrete block (bed depth may be shown in parenthesis).
- 4/FB Face brick to match existing texture and color.
- 4/FRE Existing face brick.
- 4/CS Cast stone (color as selected by Architect) See detail C3/A1.2.
- 4/SB Concrete splash block.
- 5/SJA Stud jamb anchor.
- 6/PW Plywood (thickness may be shown in parenthesis).
- 6/TWB Treated wood blocking.
- 6/TWF Treated wood framing @ 16" O.C. (size in parenthesis).
- 6/SWT Simulated wood trim.
- 7/AS Asphalt shingles.
- 7/ASF Aluminum soffit 50% vented.
- 7/BI Fiberglass batt. Insulation (thickness may be shown in parenthesis).
- 7/AC Aluminum cladding.
- 7/DS Downspout see detail D1/A1.3.
- 7/EA Continuous compressible expansion joint filler.
- 7/GA Gutter seamless see detail C1/A1.3.
- 7/WW Ice and water shield.
- 7/NB Roof insulation vented w 3/4" plywood 5.0" total thickness R=20.5
- 7/RI Roof insulation (thickness may be shown in parenthesis).
- 7/RV Ridge vent.
- 7/S Sedant.
- 7/SS Sound attenuation insulation (thickness may be shown in parenthesis).
- 7/SR Sealant with rod backup.
- 7/SU Synthetic underlayment.
- 7/TWF Thru-wall flashing with weep vents.



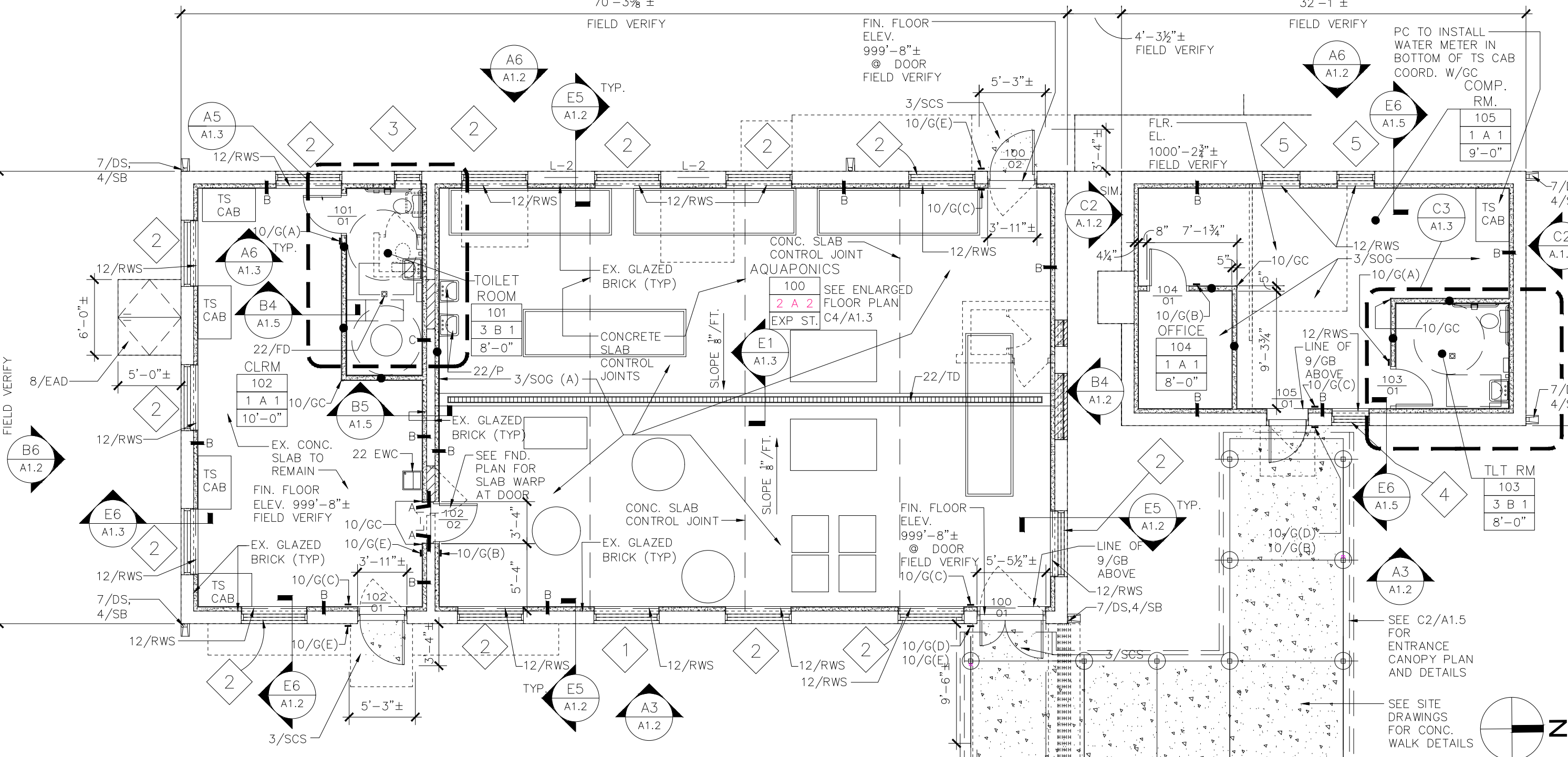
**BASEMENT PLAN**

**GENERAL NOTES**

- General Contractor shall be responsible for the preparation of walls, floors, and ceilings to receive finish materials as scheduled on the Room Finish Schedule.
- Use salvaged brick for cutting and patching openings in existing brick walls. No patches shall show at completion.
- Not used
- Existing exterior masonry shall be cleaned. All loose and damaged mortar and caulked exterior joints shall be cleaned out and repointed. All cracked brick shall be replaced.
- Existing exterior masonry caulked expansion or control joints shall be cleaned out and recoated.
- Any masonry walls (new and/or existing) scheduled to receive ceramic tile wall covering shall receive a 3/8" cement board adhered to masonry walls prior to the installation. The locations of all Plumbing Fixtures must be located to compensate for this additional wall thickness for ADA compliance.
- Existing cracks and spalled areas on existing concrete floors shall be repaired with cementitious leveling compound.
- All existing lintels shall be cleaned of rust and scale and shall be primed and painted. Color selected by Owner / Architect.
- Any finished material scheduled shall be new unless the room finish schedule specifically states it is existing. The General Contractor shall prepare surfaces as required for new finishes.
- Remove all existing doors and hardware unless noted otherwise. Install new doors and hardware as scheduled.
- The structural integrity of the existing building shall be maintained at all times.
- All dimensions and conditions shall be verified at the job site and the Architect must be notified if any discrepancies before proceeding with the work.
- The G.C. shall install "X" thick cement based leveling compound / underlayment on existing floors scheduled to receive new finish flooring. The G.C. shall review the condition of the existing slab with the Architect prior to the installation of the leveling compound / underlayment to determine the necessary coverage area and if more or less thickness is required. The G.C. shall provide expansion joints at all new and existing expansion joint locations.
- Remove all existing doors and/or room signage through building mounted on walls and door frames. Patch existing surface to match adjacent construction and finish. Provide and install one sign per door and/or room opening (Type "B" or "E" as indicated on Signage Schedule Sheet E6/A-1.1, unless noted otherwise). Signage is noted on the floor plans by keynote 10/G.
- All existing interior and exterior expansion and control joints shall be maintained and continued in new finish. All existing caulked expansion and/or control joints, including but not limited to, joints in existing glazed brick and face brick shall be cleaned out and recoated w/ep.
- All cracked face brick and glazed brick shall be removed and replaced. All cracked or loose mortar shall be cut out and repointed.
- All outside corners of Ceramic Tile shall be bullnosed. U.O.N.
- All new partitions unless otherwise shown, shall be 3/8" steel studs and/or thickness to adequately support piping. Extend to underlayment of roof trusses.
- In the event that certain details of the construction are not fully shown or noted on the drawings or called for in the specifications their construction shall be the size and character as for similar conditions which are shown and noted.
- Refer to plumbing drawings for floor drain locations.
- The G.C. shall install appropriate floor finish over clean-out plates by P.C. and receptacles by E.C. where required, coordinate locations with appropriate contractor.
- All uneven floor areas in work area shall be leveled with self-leveling fl. Finish surface shall be flush with existing adjacent area. Substrate conditions shall meet flooring manufacturer's requirements.
- The P.C. and H.C. shall be responsible for installing steel lintels and openings as required in existing construction. The structural integrity of the walls must be maintained. The G.C. shall patch and caulk all grills, louvers, lintels, vents, etc. that are by other contractors.
- New work shall line up with and match flush with existing construction, except where otherwise dimensioned or detailed.
- All demolition work required to finish the work shall be done in a workmanlike manner and all salvaged items, as designated, shall become the property of the Owner.

**GENERAL NOTES cont.**

- 8/AL Aluminum storefront with operable vent.
- 8/ALV Aluminum louver and trim.
- 8/EAD Exterior access door.
- 8/HM Hollow metal door and frame.
- 8/HM Insulated hollow metal door.
- 9/APC Acoustical panel lay-in ceiling (height may be shown in parenthesis).
- 9/CEM Cement board (5/8" thick). To be used at all ceramic wall tile.
- 9/CT Ceramic tile. U.O.N.
- 9/GB Gypsum board moisture resistant (5/8" thick). Tape and finish joints.
- 9/SBA Gypsum board moisture resistant adhered (5/8" thick). Tape and finish joints.
- 9/HC Hot channel 7/8" @ 16" o.c.
- 9/JM "J" Moulding
- 9/MS Marble window stool.
- 9/RB Rubber base.
- 9/VCT Vinyl composition tile.
- 10/CAN Polycarbonate free standing canopy.
- 10/CG Corner guards 48" high bottom 4" A.F.F.
- 10/IC Install wall sign/graphic (type may be indicated in parenthesis). See Signage Detail E6/A1.1.
- 22/FD Floor drain by PLUMBING CONTRACTOR. See Plumbing Drawings.
- 22/EWC Electric water cooler by PLUMBING CONTRACTOR. See Plumbing Drawings.
- 22/WHR Water Heater by PLUMBING CONTRACTOR. See Plumbing Drawings.
- 22/TD Trench drain by PLUMBING CONTRACTOR. See Plumbing Drawings and detail C6/A1.3.
- 23/L Louver see HVAC drawings.
- 23/H See HVAC drawings.



**FLOOR PLAN**

**GENERAL NOTES cont.**

- Where new framing ties into the existing construction, investigate and verify conditions, sizes, elevations, etc. of the existing construction. Remove and replace all damaged existing adjacent construction.
- Where new materials are to be used in existing construction, field measure and verify condition of existing materials.
- The General Contractor shall patch all holes, openings, cracks and surface imperfections in floors, walls, and ceilings ready to receive finish. Openings in existing walls shall be framed in and/or blocked up according to corresponding conditions and materials. Finish to match surface of adjacent finish, unless noted otherwise. No patches shall show at completion - typical.
- All areas adjacent to work areas shall be cleaned during the course of the project and at the completion of the project.
- All floor transitions between new/existing and different floor finishes shall be feathered with leveling compound to provide a flush floor finish.
- Remove and/or modify all existing adjacent materials necessary for the satisfactory completion of all indicated work.
- Provide sound batts (full width and height) at all stud partitions. Batt. thickness to match studs - typical.
- All loose equipment and relocation of loose equipment shall be by Owner, unless noted otherwise. All fixed equipment and the relocation of fixed equipment shall be by the General Contractor. The Electrical Contractor shall disconnect all existing fixed equipment as required. The Electrical Contractor shall also provide power and reconnect all equipment at new and/or existing locations as required.
- Remove all existing doors and hardware unless noted otherwise. Install new doors and hardware as scheduled.
- The structural integrity of the existing building shall be maintained at all times.
- All dimensions and conditions shall be verified at the job site and the Architect must be notified if any discrepancies before proceeding with the work.
- The G.C. shall install "X" thick cement based leveling compound / underlayment on existing floors scheduled to receive new finish flooring. The G.C. shall review the condition of the existing slab with the Architect prior to the installation of the leveling compound / underlayment to determine the necessary coverage area and if more or less thickness is required. The G.C. shall provide expansion joints at all new and existing expansion joint locations.
- Remove all existing doors and/or room signage through building mounted on walls and door frames. Patch existing surface to match adjacent construction and finish. Provide and install one sign per door and/or room opening (Type "B" or "E" as indicated on Signage Schedule Sheet E6/A-1.1, unless noted otherwise). Signage is noted on the floor plans by keynote 10/G.
- All existing interior and exterior expansion and control joints shall be maintained and continued in new finish. All existing caulked expansion and/or control joints, including but not limited to, joints in existing glazed brick and face brick shall be cleaned out and recoated w/ep.
- All cracked face brick and glazed brick shall be removed and replaced. All cracked or loose mortar shall be cut out and repointed.
- All outside corners of Ceramic Tile shall be bullnosed. U.O.N.
- All new partitions unless otherwise shown, shall be 3/8" steel studs and/or thickness to adequately support piping. Extend to underlayment of roof trusses.
- In the event that certain details of the construction are not fully shown or noted on the drawings or called for in the specifications their construction shall be the size and character as for similar conditions which are shown and noted.
- Refer to plumbing drawings for floor drain locations.
- The G.C. shall install appropriate floor finish over clean-out plates by P.C. and receptacles by E.C. where required, coordinate locations with appropriate contractor.
- All uneven floor areas in work area shall be leveled with self-leveling fl. Finish surface shall be flush with existing adjacent area. Substrate conditions shall meet flooring manufacturer's requirements.
- The P.C. and H.C. shall be responsible for installing steel lintels and openings as required in existing construction. The structural integrity of the walls must be maintained. The G.C. shall patch and caulk all grills, louvers, lintels, vents, etc. that are by other contractors.
- New work shall line up with and match flush with existing construction, except where otherwise dimensioned or detailed.
- All demolition work required to finish the work shall be done in a workmanlike manner and all salvaged items, as designated, shall become the property of the Owner.

**ROOM FINISH SCHEDULE**

FLOOR / BASE	WALL / WSCT	CEILING
0. Special, See Plans or Specifications	2. Special, See Plans or Specifications	0. Special, See Plans or Specifications
1. VCT / 4" Rubber Base	A. Gypsum Board/pt./none	1. 2x2 lay-in acoustical ceiling (Type 1)
2. Hardened concrete/4" Rubber base	B. Ceramic wall tile (48"x48") (full hgt.)	2. Exposed existing steel
3. 2" x 2" CMU/4" straight Ceramic tile	C. Existing masonry painted. Repair all spalled concrete areas prior to painting	3. Exposed existing steel
4. Existing concrete to remain/none		4. Existing concrete/pt.

**GENERAL ROOM FINISH NOTES:**

- Paint & repair all existing floor, wall and ceiling surfaces in areas to receive new finishes.
- All finishes are new unless noted otherwise.
- See electrical notes for ceiling grid layouts.
- Provide transition strips at all areas where dissimilar partitions, bookcases, or substrates meet. typ.
- Provide control joints for gyp. board where dissimilar partitions, bookcases, or substrates meet. typ.
- See sheet this sheet for general construction notes and keynotes.
- See spec. for acoustical lay-in ceiling type item #1.
- Provide 1/2" thick self leveling floor underlayment compound on all existing areas to receive new floor finish.

**CEILING TYPE DESCRIPTION:**

- Lay-in ceiling Type 1 - (Classroom, Toilet Rm & Offices)
- Armstrong - Free Housed High WIC (RTM)
- (24x24 Square Edge (White) - 15/16" grid (White))

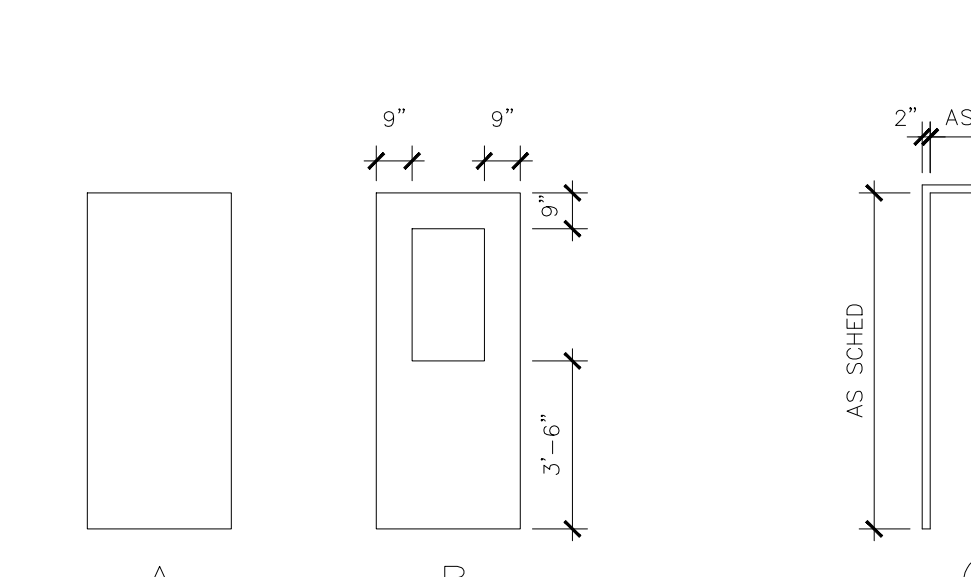
**DOOR SCHEDULE**

Rm No	Dr. No	Door Size	Dr Elev	Dr Const	Dr Glaze	Fr Elev	Fr Const	Fr Depth	Jamb Detail	Hardware	Remarks
100	01	3-0 X 6-10 1/4 UNEQUAL PAIR	A	IHM	-	1	HM	5 1/2"	3	05	1,2,3
100	02	3-7 X 6-10 1/4	A	IHM	-	1	HM	5 1/2"	2	08	1,2,3
101	01	3-0 X 6-10 1/4	A	IHM	-	1	HM	5 1/2"	2	02	-
102	01	3-7 X 6-10 1/4	A	IHM	-	1	HM	5 1/2"	1	04	1
102	02	3-0 X 7-0 1/2	B	HM	CT	1	HM	5 1/2"	1	07	1
103	01	3-0 X 7-0 1/2	A	HM	-	1	HM	5 1/2"	2	03	-
104	01	3-0 X 7-0 1/2	A	HM	-	1	HM	5 1/2"	2 SIM	01	-
105	01	3-0 X 7-9 1/4	A	IHM	-	1	HM	5 1/2"	3	06	1,2,3

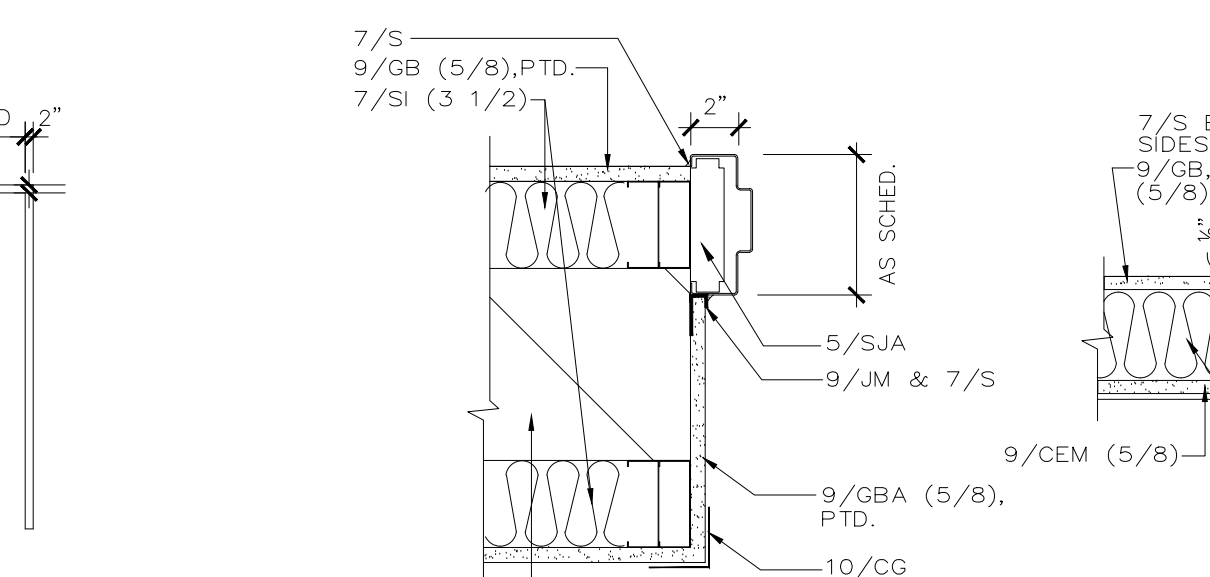
G.C. SHALL FIELD VERIFY ALL DOOR DIMENSIONS.

**LINTEL SCHEDULE**

LINTEL	TYPE	SIZE	LENGTH	ARRANG.	REMARK
L-1	STRUCTURAL ANGLES	(2) 14x24	M.O. = 27'-8"	J L	FOR DOOR 102-02



**DOOR ELEVATIONS**



**JAMB DETAILS**



**DOOR CODE**

- DOOR MARK: Door mark shows room number and appropriate number designation for each door.
- DOOR TYPE: As indicated on schedule.
- ALL DOORS ARE 1-3/4" THICK, UNLESS NOTED OTHERWISE.
- SEE ELEVATIONS THIS SHEET.
- DOOR CONSTRUCTION: UNLESS NOTED OTHERWISE: HM - hollow metal, paint; HW - insulated hollow metal, paint.
- DOOR GLAZING: CT - 1/4" door, tempered.
- FRAME CONSTRUCTION: HM - hollow metal to be painted in the field.
- FRAME DEPTH: See this sheet.
- FRAME TYPE: See elevations this sheet. Unless otherwise noted, all frames are hollow metal.
- JAMB DETAIL: See this sheet.
- HARDWARE: Number noted on schedule is Hardware Heading number listing in the specifications.
- REMARKS: 1. Remove existing door and frame complete. Verify door opening width and height and install new door and frame in existing opening. Patch and repair wall as required. 2. GENERAL CONTRACTOR shall furnish and install door hardware components including the electric strikes and electric latches (with power transfer and associated wiring harnesses). ELECTRICAL CONTRACTOR shall provide a junction box of box of fused wire on secure side of doorway and install conduits to all electric hardware components. GENERAL CONTRACTOR shall install wiring from electric strikes and latches to junction box on top of the frame wall. ELECTRICAL CONTRACTOR shall furnish and install control readers, and door position switches. ELECTRICAL CONTRACTOR shall provide conduit and wiring from readers and sensors to the junction box on top of the frame wall. Wiring within door frames do not require a separate conduit. 3. ELECTRICAL CONTRACTOR to provide and install door position switch(es).

**NOTES**

- The General Contractor shall verify all dimensions in the field prior to submitting shop drawings for final approval.
- An attempt has been made to schedule all necessary doors, frames and hardware. The contractor shall be responsible for furnishing and installing all related doors, frames and hardware necessary for completion of the project and in compliance with applicable codes, fire-ratings, etc., whether specifically indicated in the schedule or not.
- A solid wall member top of frame to underside of roof trusses shall be constructed above all frames. Wall construction above frame to match wall construction of all jmbms, unless noted otherwise. Provide header and/or lintel as required to support new and/or existing wall construction at head of all frames.
- Grout solid all exterior metal frames.
- Caulk the perimeter of all frames.
- Where door frames are scheduled for new steel stud walls and partitions, provide double studs back-to-back at all jmbms.
- Use wire anchors for hollow metal frames of all new masonry wall locations. All existing masonry wall locations, use pipe spacer anchors. Caulk/epoxy and patch frame prior to painting.
- An attempt has been made to schedule all necessary door openings to receive a threshold. The contractor shall be responsible to provide a threshold at all doorway locations where there is a change in floor finish or where finishes have different heights.
- Door frame depths are to be 1" wider than the wall thickness, protruding 1/2" beyond the face of masonry, gyp board and/or plaster walls.
- All interior doors shall receive signage to be mounted at wall on the strike side of the door.

**REVISIONS**

NO.	DATE	DESCRIPTION

**NOTES**

- WALL LEGEND: SEE FINISH SCHEDULE FOR MATERIAL FINISHES.
- EXISTING TO REMAIN
- WALL TO BE REMOVED
- CONC. BLOCK (8" UNLESS NOTED OTHERWISE)
- WALL TYPE "X" EXISTING GLAZED BRICK AND/OR 4/SB BACKUP. 9/8B(A) - OPSIS BOARD ADHERED TO EXIST TO DECK.
- EXISTING GLAZED BRICK 7/8 (3 S/W)
- WALL TYPE "E" EXISTING GLAZED BRICK BACKUP. 9/8B(C) ON 9/8B (C) - OPSIS BOARD TO EXIST TO DECK. SUBSTITUTE ADHESIVE 9/8B(C) FOR 9/8B(C) FOR ALL WALL SURFACES TO RECEIVE CELESTINE TILE.
- EXISTING GLAZED BRICK 7/8 (3 S/W)
- WALL TYPE "E" EXISTING GLAZED BRICK BACKUP. 9/8C ON ONE SIDE ON 9/8B(C) ON 9/8 (C) - CEMENT BOARD TO EXIST TO G.C. FRAMING.
- INDICATES 9/8B (5/8) ON EA. SIDE ON 9/8MS (3 5/8) @ 16" O.C. U.O.N. NOMINAL WALL THICKNESS DIMENSION IS 1" STAGGER STUDS AS REQUIRED FOR OTHER WALL THICKNESS DIMENSIONS INDICATED ON PLAN. WALL SHALL BE FILLED W/ SOUND BATT. INSULATION. METAL STUDS SHALL BE EXTENDED AND SECURED TO ROOF TRUSSES AND/OR DECK. DRYWALL AND BATT. INSULATION SHALL BE EXTENDED TO UNDERLAYMENT OF ROOF TRUSS.
- INDICATES SOUND ATTENUATION INSULATION THICKNESS TO MATCH PARTITION WIDTH.

**NOTE:**

THE INTEGRITY OF THE EXISTING BUILDING AND FOUNDATION SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

**ARCHITECTS**

**ENGINEERS**

40 SHENAGO AVE., SHARON, PA 16146 • (724) 981-8820  
130 SEVENTH ST., PITTSBURGH, PA 15222 • (412) 281-2280

**MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM**

41 MUNNELL RUN LANE  
MERCER, PA 16137

FOR THE  
**MERCER COUNTY COMMISSIONERS**  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

**DEMOLITION PLAN / FLOOR PLAN / DOOR SCHEDULE / NOTES / SIGNAGE**

COMM. NO. 4826  
DATE 05/29/26

SHEET NO. **A-1.1**

**CODE INFORMATION**  
(BUILDINGS A & B)

Mercer County Agricultural and Conservation Community Learning Center at Munnell Run Farm, International Building Code (IBC) 2021.

**ALLOWABLE BUILDING INFORMATION:**

USE & OCCUPANCY CLASSIFICATION: Education, Group E  
 CONSTRUCTION TYPE: Type IIIB Construction  
 SPRINKLERS: Non-Sprinklered  
 ALLOWABLE AREA (Table 506.2): 14,500 sf  
 ALLOWABLE BUILDING HEIGHT (Table 504.3): 55' FEET  
 ALLOWABLE NUMBER OF STORIES (Table 504.4): 2 STORY  
 EXIT ACCESS TRAVEL DISTANCE (Table 1017.2): 200'  
 OCCUPANT LOAD FACTOR BUILDING A (TABLE 1004.5): SEE FLOOR PLAN E5/A1.1A  
 OCCUPANT LOAD FACTOR BUILDING B (TABLE 1004.5): SEE FLOOR PLAN E5/A1.1A

**ACTUAL BUILDING INFORMATION:**

(FLOOR PLAN AREA): (BUILDING A) 2600 SF  
 (FLOOR PLAN AREA): (BUILDING B) 650 SF  
 ACTUAL BUILDING HEIGHT (504.3): (BUILDING A) 22.00' FEET @ RIDGE  
 ACTUAL BUILDING HEIGHT (504.3): (BUILDING B) 20.00' FEET @ RIDGE  
 NUMBER OF STORIES (Table 504.4): (BUILDING A) 1 STORY  
 NUMBER OF STORIES (Table 504.4): (BUILDING B) 1 STORY  
 ACTUAL OCCUPANT LOAD (TABLE 1004.5): (BUILDING A) 57  
 ACTUAL OCCUPANT LOAD (TABLE 1004.5): (BUILDING B) 22

**LEGEND**

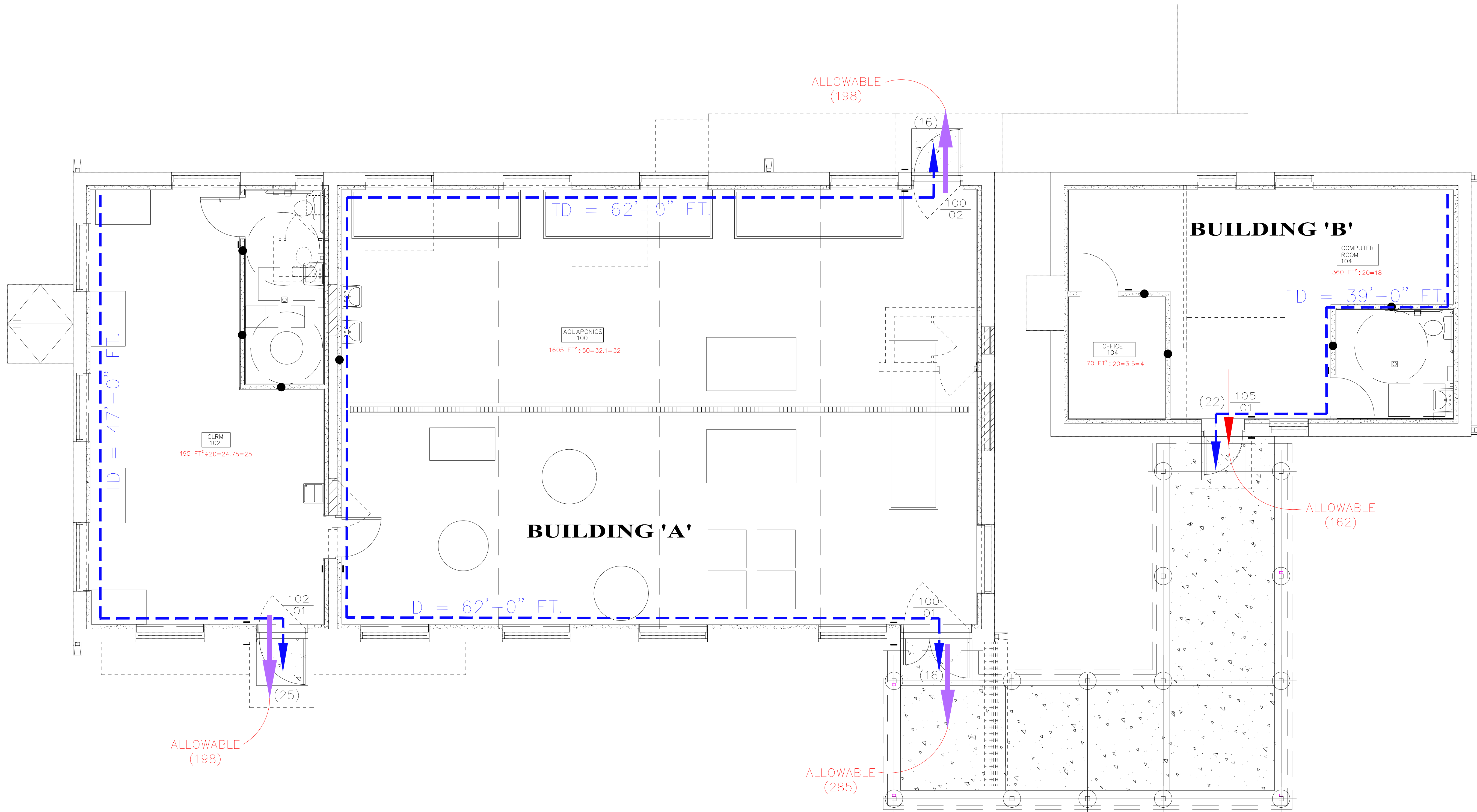
- INDICATES DIRECTION OF OCCUPANT EGRESS
- INDICATES 'TRAVEL DISTANCE'
- INDICATES 'TRAVEL DISTANCE' PATH

NOTE : RED NUMBERS WITHIN ROOMS INDICATE ROOM AREA AND OCCUPANT LOAD PER IBC 2021 TABLE 1004.5

**REQUIRED EGRESS DOOR WIDTHS**  
(IBC 2021 - 1005):  
(BUILDINGS A & B)

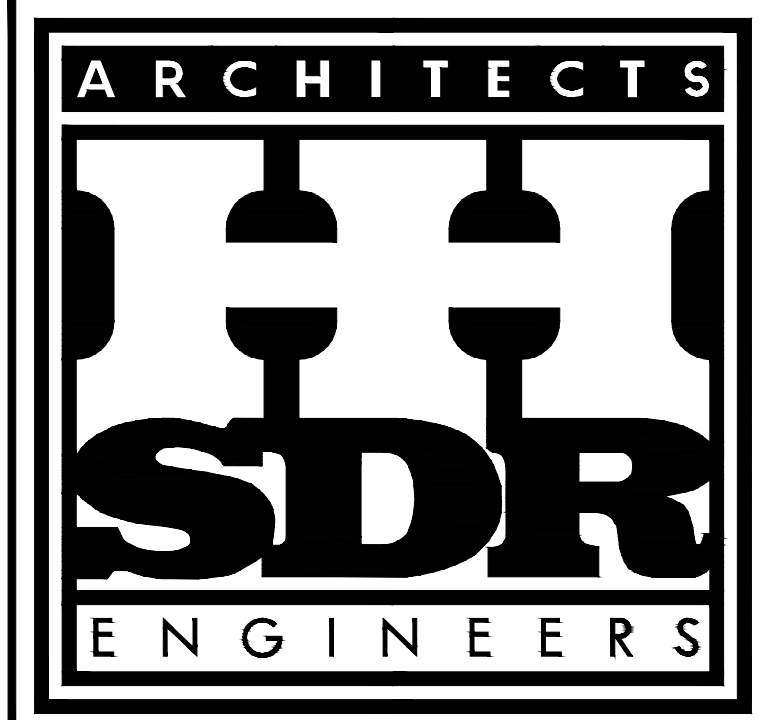
ALLOWABLE EGRESS WIDTH (DOORWAYS)			
DOOR	#OCCUPANTS	REQ'D EGRESS WIDTH	EGRESS WIDTH PROVIDED
100/01	16 X .2	3.2"	57.00"
100/02	16 X .2	3.2"	39.50"
102/01	25 X .2	5"	39.50"
105/01	22 X .2	4.4"	32.50"

DOOR WIDTH / OCCUPANT LOAD  
 \*\* 3'-0" WIDE DOOR = APPROX. 32.50" CLEAR / .20" = 162± OCCUPANTS \*\*  
 DOOR WIDTH / OCCUPANT LOAD  
 \*\* 3'-7" WIDE DOOR = APPROX. 39.50" CLEAR / .20" = 198± OCCUPANTS \*\*  
 DOOR WIDTH / OCCUPANT LOAD  
 \*\* 5'-0" WIDE DOOR = APPROX. 57" CLEAR / .20" = 285± OCCUPANTS \*\*

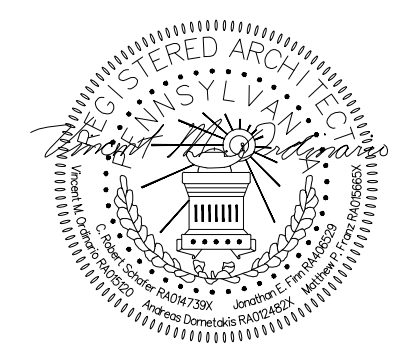


REVISIONS

NOTES



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 41 MUNNELL RUN LANE  
 MERCER, PA 16137  
 FOR THE  
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 125 SOUTH DIAMOND STREET  
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CODE INFORMATION

**FLOOR PLAN**

1/8"=1'-0"

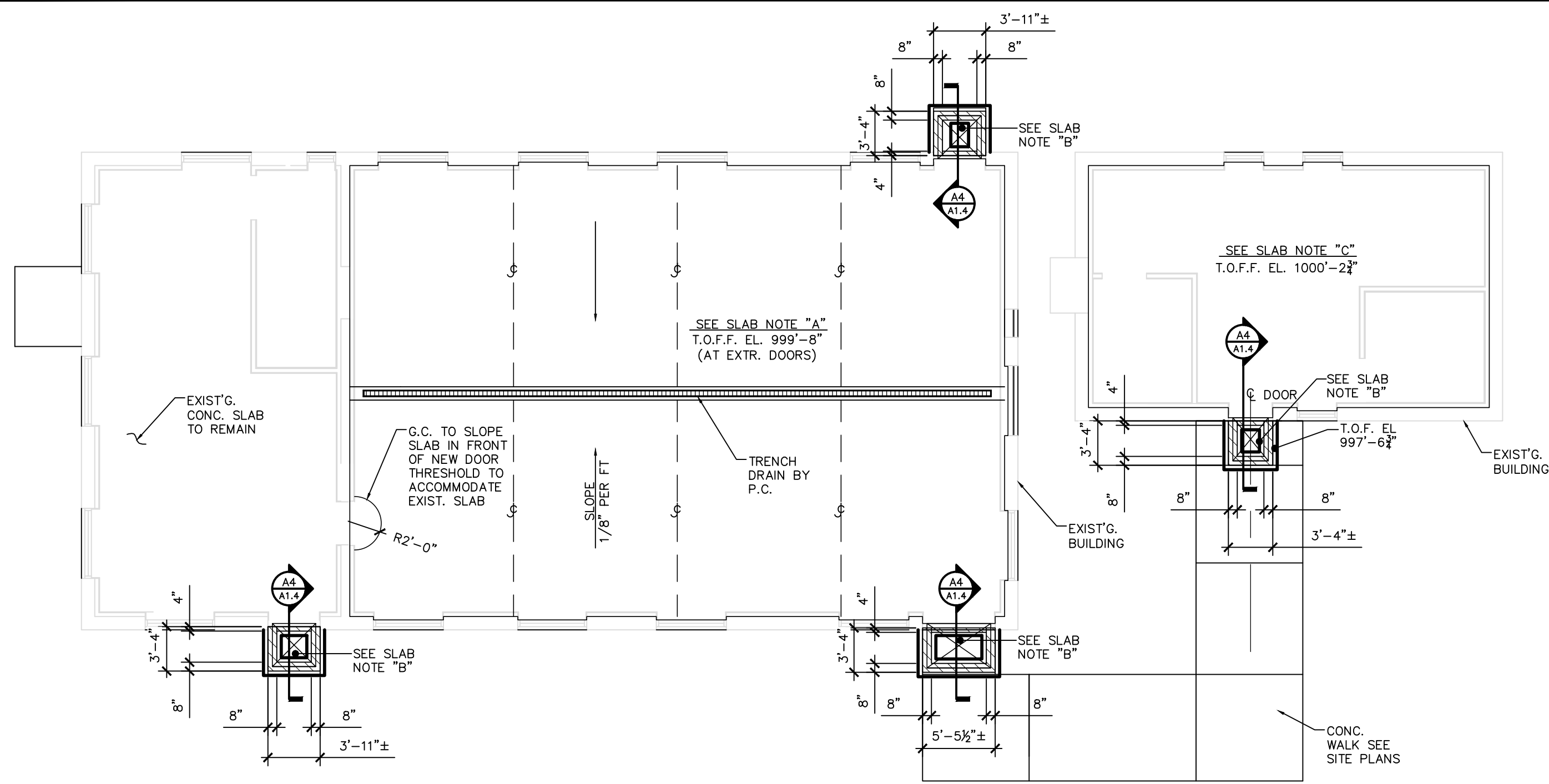
E5  
A1.1A

COMM. NO. 4826  
 DATE 05/29/26

SHEET NO. **A-1.1A**  
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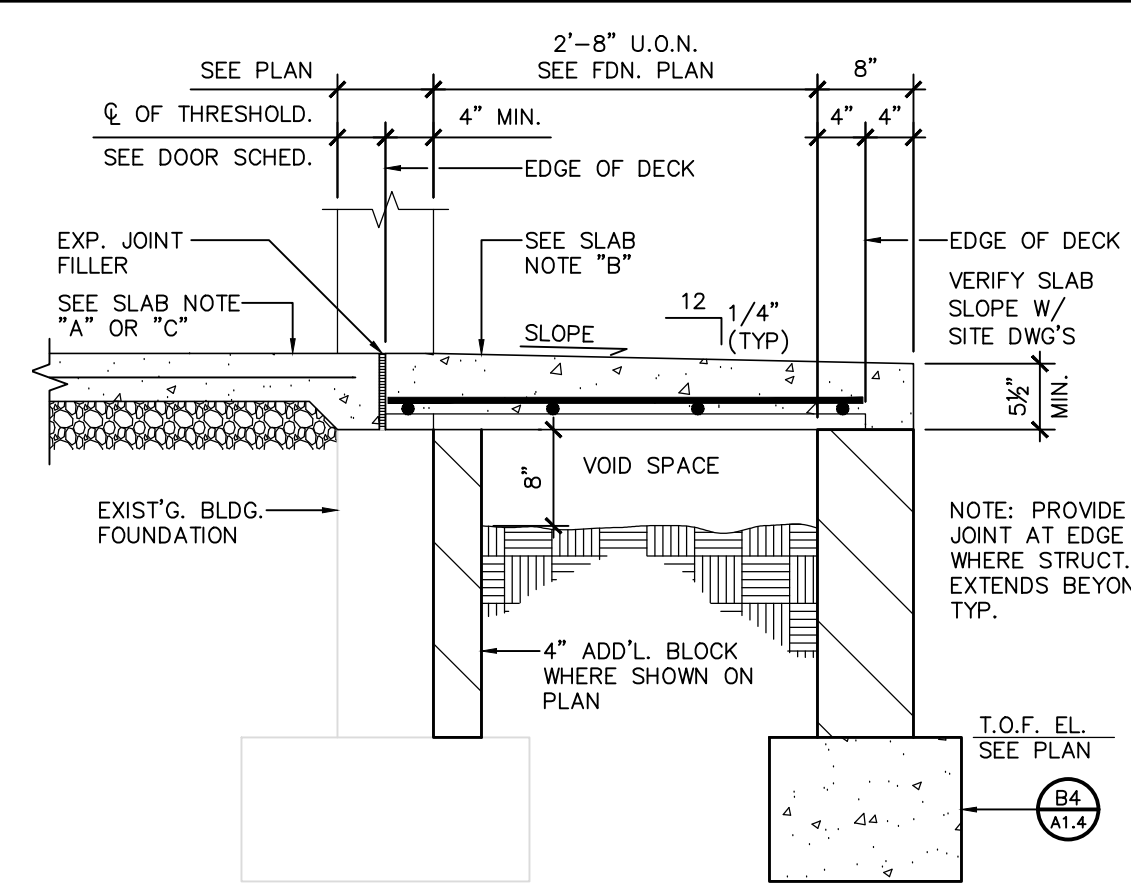




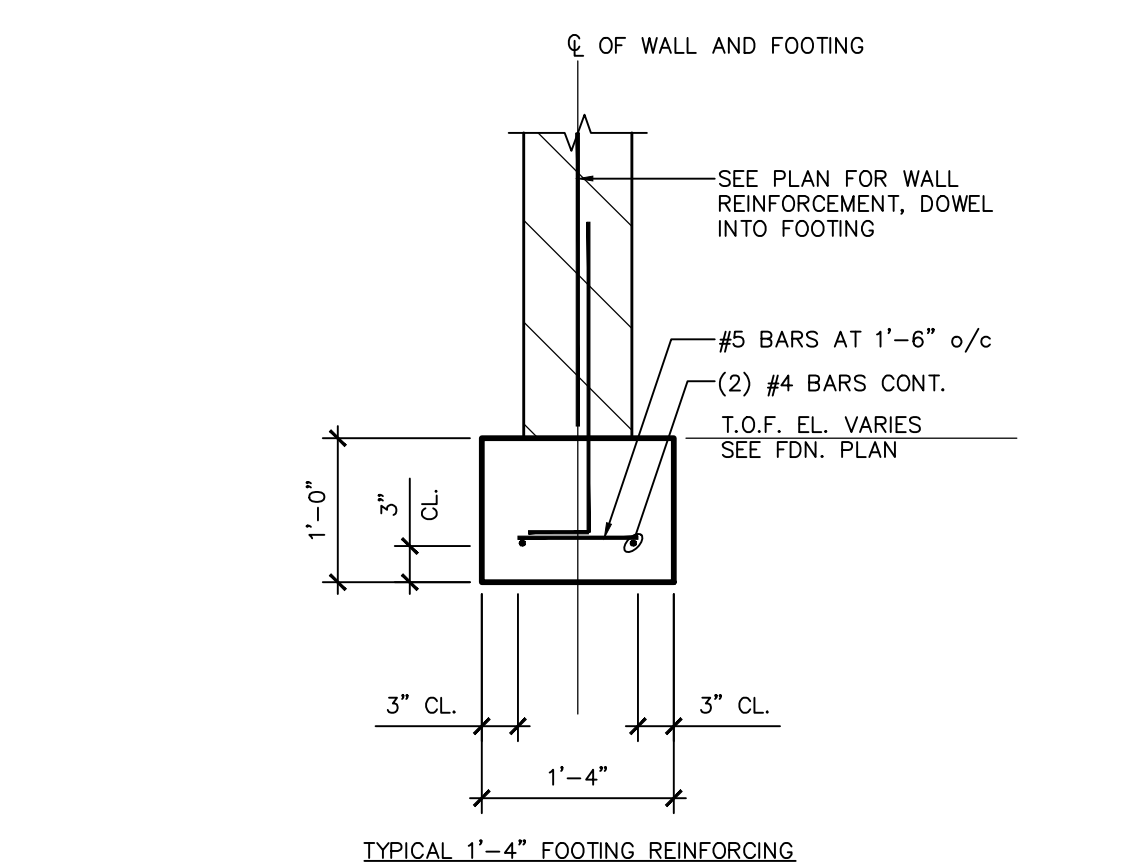
**FOUNDATION PLAN - BASE BID**

1/8" = 1'-0"  
 T.O.F.F. EL. VARIES. SEE SHEET A-1.1.  
 SEE GENERAL FOUNDATION NOTES THIS SHEET.  
 WORK THIS PLAN WITH A-1.1 FOR ADDITIONAL DETAILS.  
 T.O.F. EL. 997'-0" U.O.N.  
 § - DENOTES CONTROL JOINT CAST IN SLAB SEE DETAIL A6/S1.1

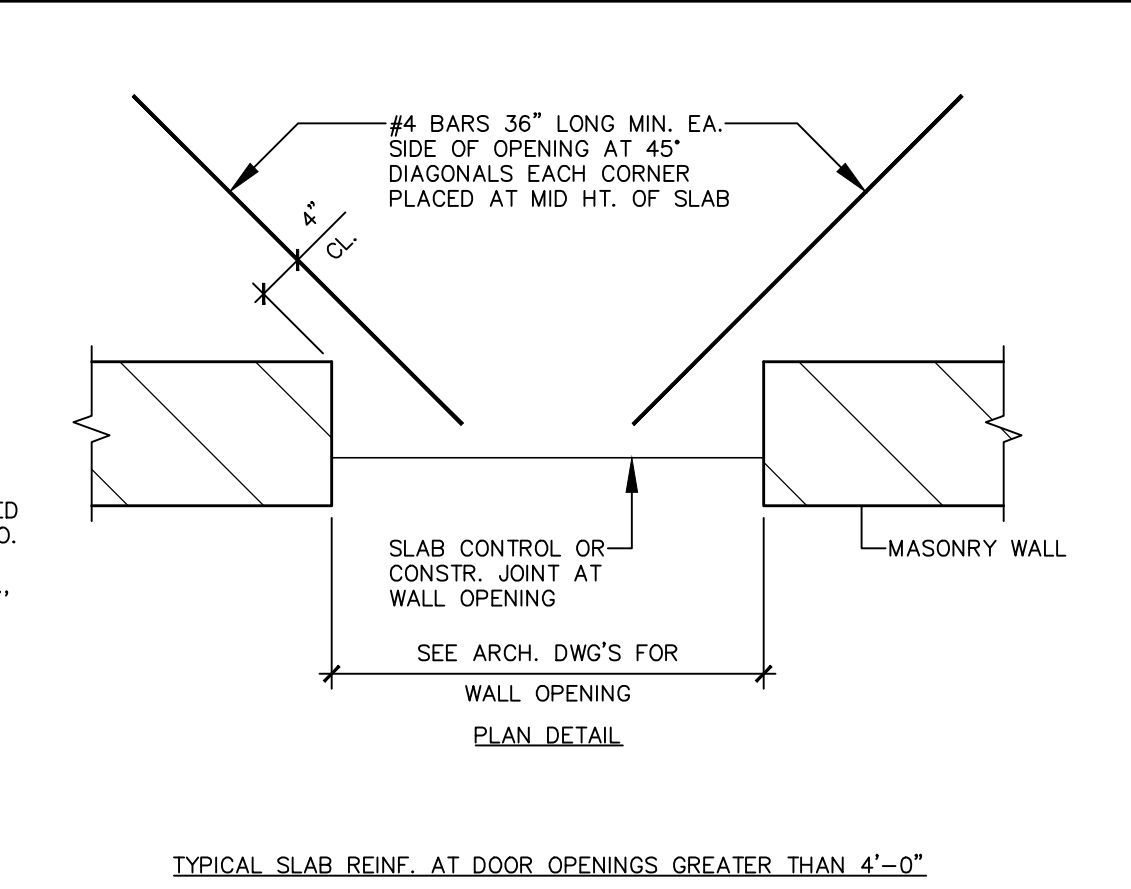
B3  
 A1.4



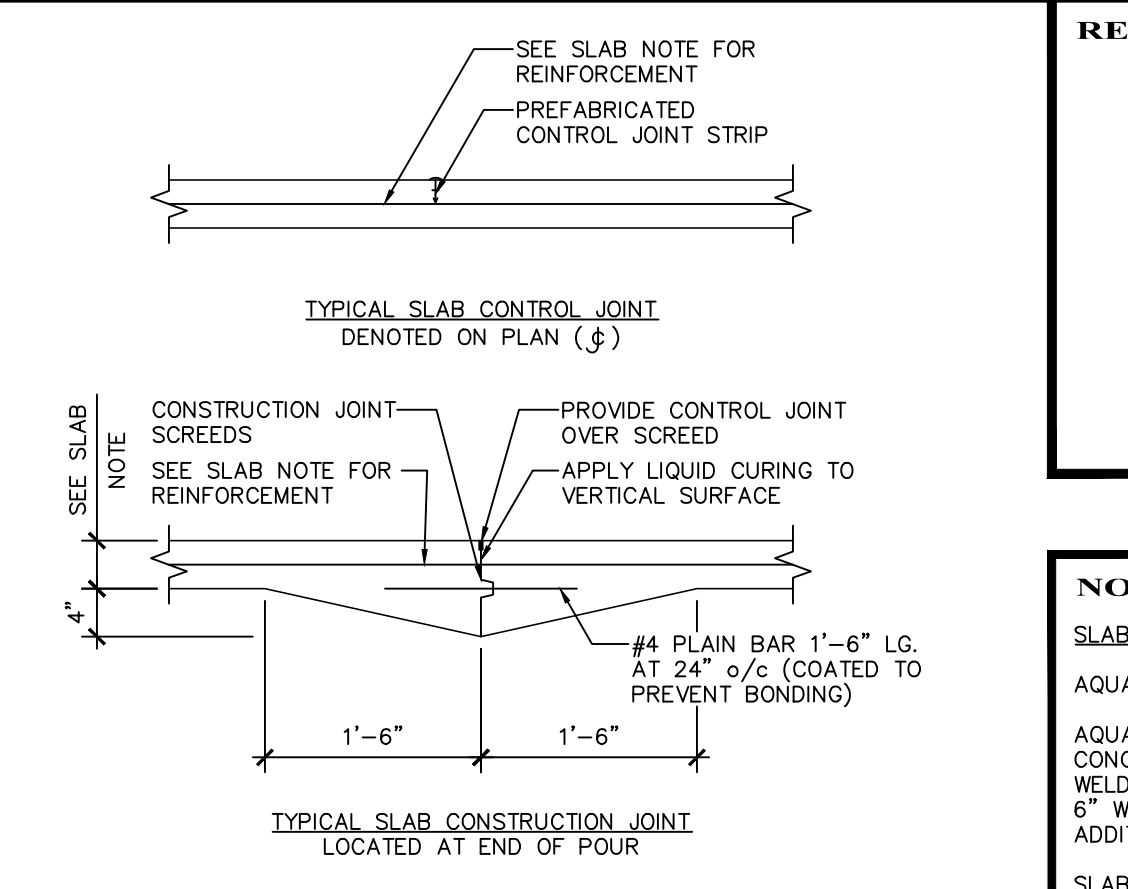
**SECTION (TYP) A4**  
 3/4" = 1'-0"



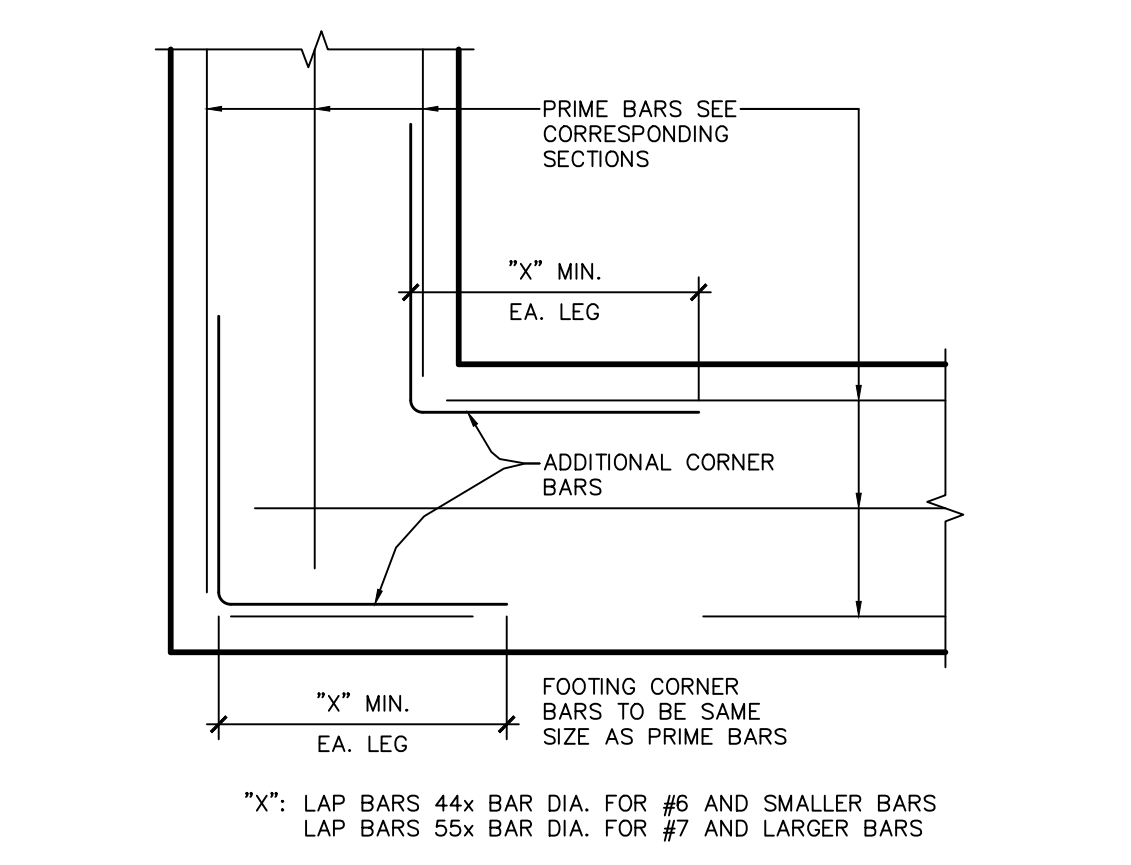
**SECTION (TYP) B4**  
 3/4" = 1'-0"



**DETAIL (TYP) A5**  
 3/4" = 1'-0"

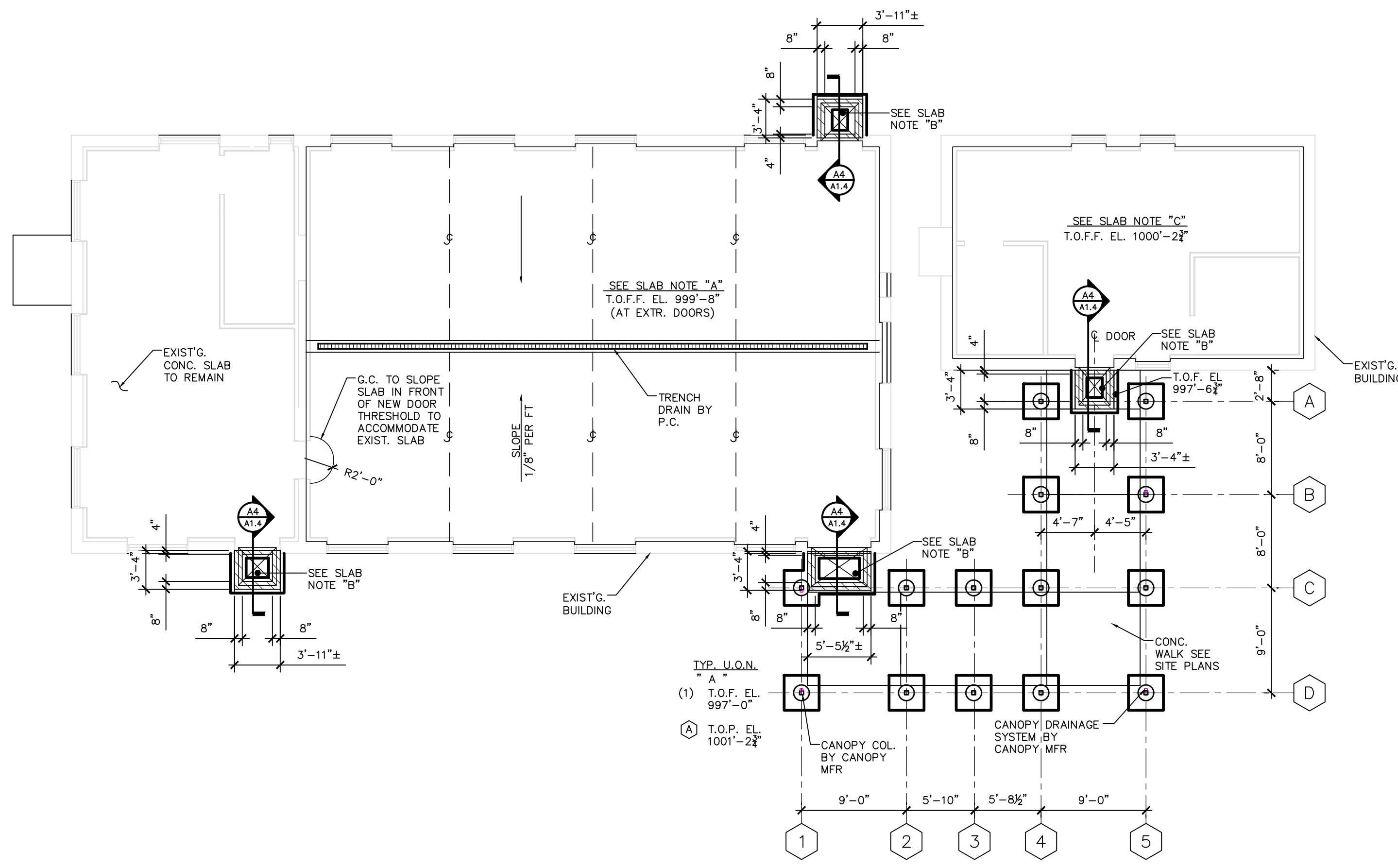


**SECTION (TYP) A6**  
 3/4" = 1'-0"



**DETAIL (TYP) B5**  
 3/4" = 1'-0"

- GENERAL FOUNDATION NOTES**
- REMOVE ALL EXISTING TOPSOIL, FILL MATERIAL, AND/OR ORGANIC MATERIALS WITHIN NEW FOUNDATION AREAS AND 10'-0" BEYOND.
  - ALL FOOTINGS SHALL REST ON PROPERLY COMPACTED ENGINEERED FILL, U.O.N.
  - INSTALL VAPOR BARRIER BETWEEN CONCRETE SLAB AND GRAVEL FILL IN ALL INTERIOR AREAS.
  - LOCATION OF CONCRETE FLOOR CONSTRUCTION AND CONTROL JOINTS - AS LOCATED ON DRAWINGS OR AS JOB REQUIRES - SHALL BE APPROVED BY ARCHITECT.
  - ALL HORIZONTAL REINFORCING BARS SHALL LAP AROUND CORNERS AND INTERSECTIONS OF CONCRETE WALLS AND FOOTINGS AS DETAILED.
  - CONCRETE PROTECTION FOR REINFORCING STEEL: FOOTINGS, 3" COVER FOR BOTTOM AND 3" COVER FOR SIDES, WALLS AND PIERS AS DETAILED.
  - ALL WALLS SHALL BE BRACED IN ALL CASES WHERE BACKFILL IS PLACED BEFORE THE CONCRETE FLOOR (WHICH RESTRAINS THE WALL) IS PLACED.
  - EXTEND FOOTING REINFORCING BARS INTO REINFORCED CONCRETE WALLS, CONCRETE BLOCK FOUNDATION WALLS, ETC., WHERE THEY INTERSECT.
  - § DENOTES FLOOR CONTROL JOINTS.
  - E.O.D. DENOTES EDGE OF DECK.
  - T.O.F. DENOTES TOP OF FOOTING.
  - T.O. FIN. FL. (OR T.O.F.F.) DENOTES TOP OF FINISHED FLOOR.
  - T.O.P. DENOTES TOP OF PIER.
  - T.O.S. DENOTES TOP OF CONCRETE SLAB.
  - THE CONTRACTOR SHALL ENSURE THAT ALL EXCAVATIONS ARE FREE OF WATER, AND SHALL PROVIDE TEMPORARY Dewatering SYSTEM, I.E. SUMP PUMPS, DEWATERING WELLS, AND OTHER METHODS, TO ACCOMMODATE ANY WATER REMOVAL DURING EXCAVATION AND FOUNDATION WORK.
  - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY EXCAVATION SHORING BARRIERS AND SUPPORTS TO PROVIDE ADEQUATE PROTECTION FOR WORKERS IN EXCAVATIONS AND TO MAINTAIN USE OF EXISTING STREETS, WALKS AND PARKING AREAS.
  - BOTTOM OF EXCAVATIONS SHALL BE FREE OF LOOSE MATERIAL AND COMPACTED PRIOR TO POURING CONCRETE.
  - ALL FOUNDATIONS AND OTHER EXCAVATIONS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE PROJECT MANUAL.
  - ALL STEEL COLUMNS BELOW GRADE AND/OR EXPOSED TO SOIL OR BEHIND BRICK VENEER TO BE ENCASED IN CONCRETE.
  - PROVIDE RIGID INSULATION AT ALL PERIMETER WALLS OF BUILDING WHERE FLOORS ARE POURED ON GRADE. SEE ARCHITECTURAL DRAWINGS FOR EXTENT.
  - SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL FLOOR SLABS AND MISCELLANEOUS REINFORCING.
  - PROVIDE ISOLATION JOINT AT COLUMNS, PIPES, CONDUITS, ETC. PENETRATING THROUGH SLAB.

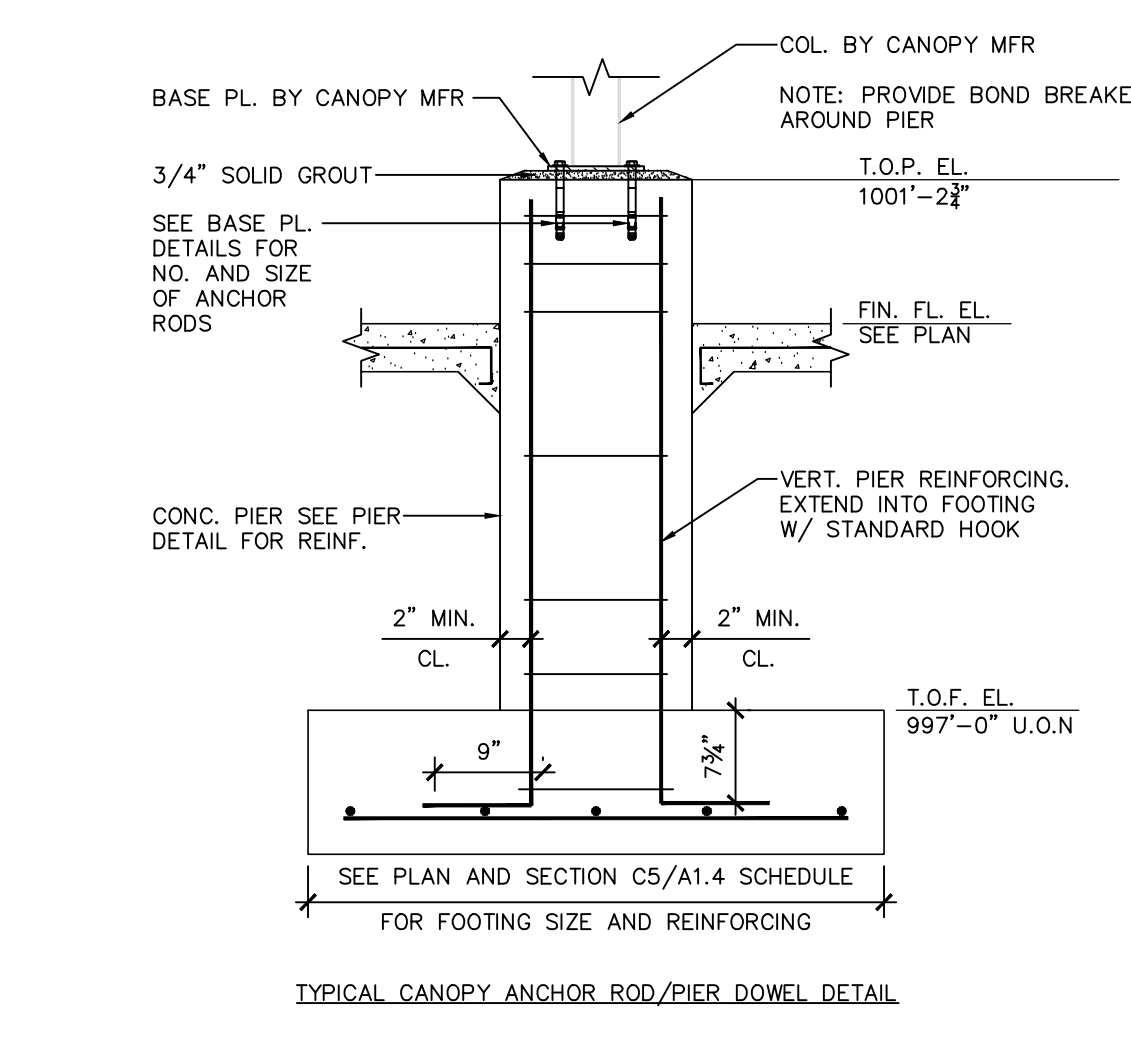


**FOUNDATION PLAN - ALT. BID G-1**

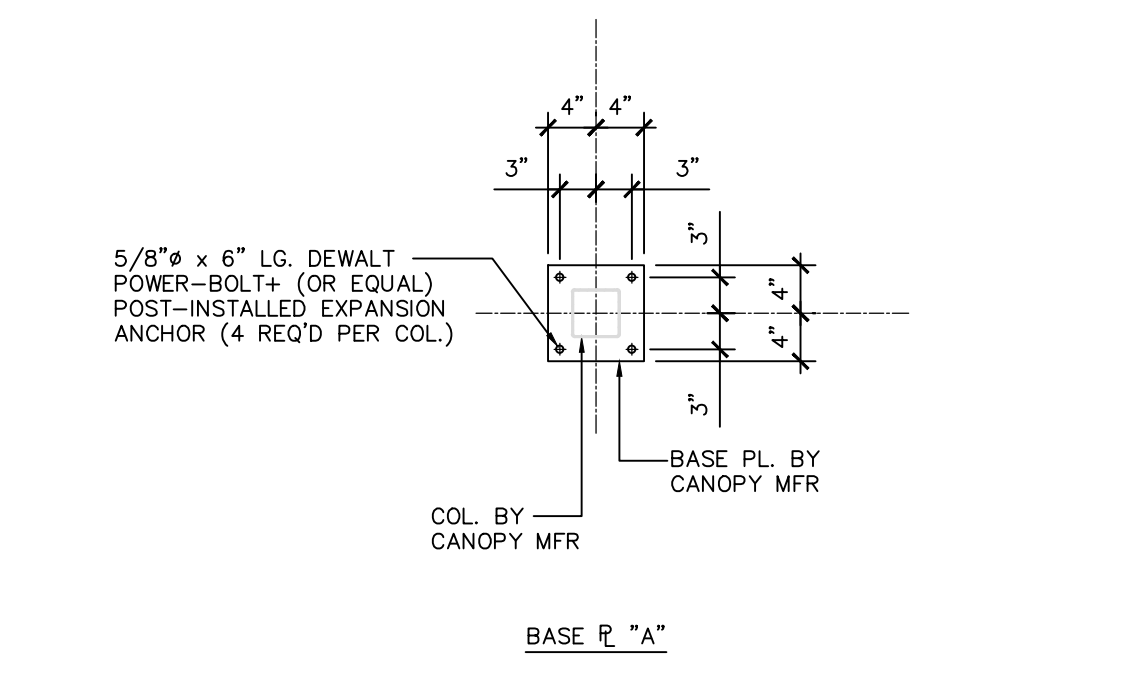
1/8" = 1'-0"  
 T.O.F.F. EL. VARIES. SEE SHEET A-1.1.  
 CANOPY WALKWAY ELEVATION SEE SITE PLANS.  
 SEE GENERAL FOUNDATION NOTES THIS SHEET.  
 WORK THIS PLAN WITH A-1.1 FOR ADDITIONAL DETAILS.  
 T.O.P. EL. 1001'-2 1/2" U.O.N.  
 T.O.F. EL. 997'-0" U.O.N.  
 " - DENOTES COLUMN BASE SEE DETAIL D4/A1.4  
 ○ - DENOTES PIER TYPE SEE DETAIL E4/A1.4  
 ( ) - DENOTES FOOTING TYPE SEE DETAIL C5/A1.4  
 § - DENOTES CONTROL JOINT CAST IN SLAB SEE DETAIL A6/S1.1

**NOTE:**  
 CANOPY COLUMN LOCATIONS ARE TO BE PROVIDED BY CANOPY MFR. FOUNDATION PLAN SHOWN IS PRELIMINARY PENDING CONFIRMATION OF CANOPY COLUMN LOCATIONS.

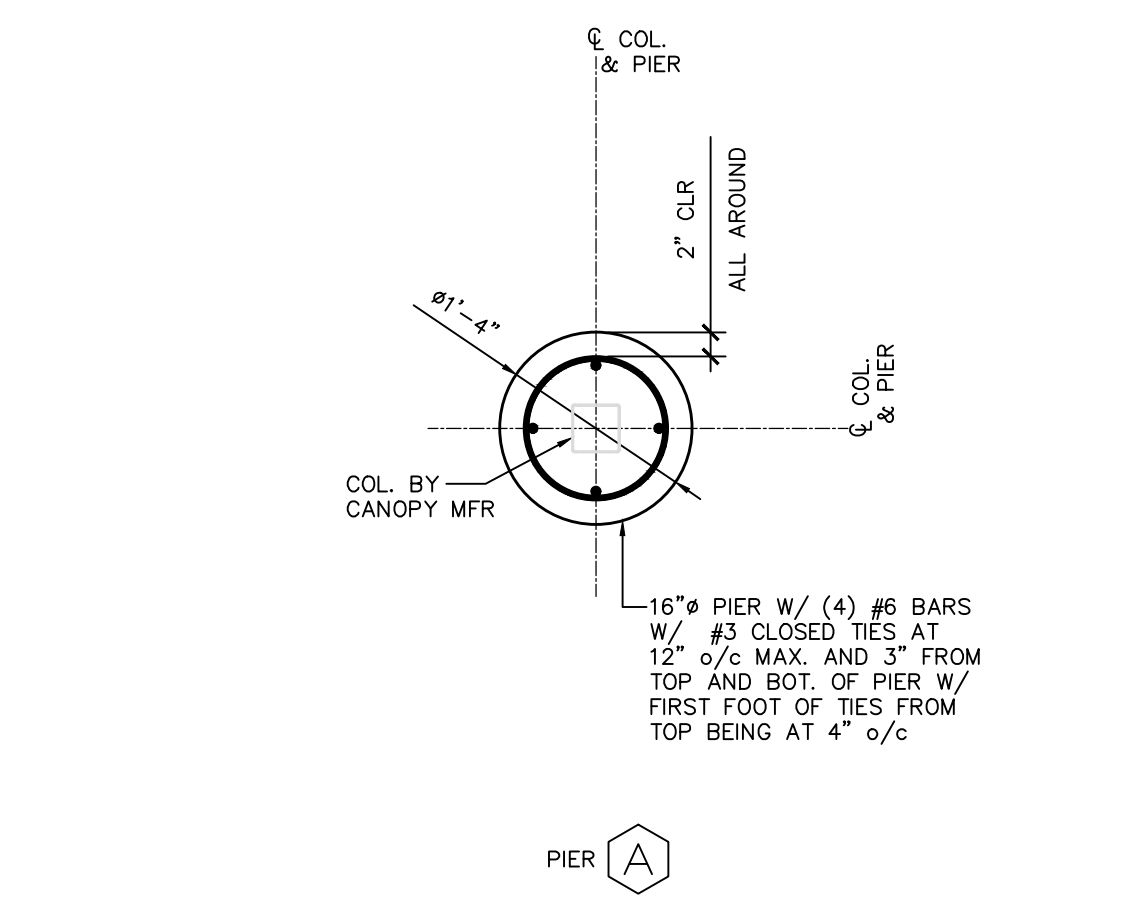
D3  
 A1.4



**SECTION (TYP) C4**  
 3/4" = 1'-0" (ALT. BID G-1) A1.4



**DETAIL (TYP) D4**  
 3/4" = 1'-0" (ALT. BID G-1) A1.4



**DETAIL (TYP) E4**  
 3/4" = 1'-0" (ALT. BID G-1) A1.4

**FOOTING SCHEDULE**

FTG. TYPE	DIMENSIONS	REINFORCING	REMARKS
(1)	3'-0" SQ. x 16" THK.	(4) #5 BOT. BARS E.W.	PIER ON FOOTING

**SECTION (TYP) C5**  
 3/4" = 1'-0" (ALT. BID G-1) A1.4

**DESIGN DATA**

- FIBER STRESS -**  
 CONCRETE CLASS C-2 & C-3 -  
 SLABS ON GRADE (SLAB NOTE "A" & "C"),  
 WALLS NOT EXPOSED TO THE EXTERIOR C-2,  
 FOOTINGS, PIERS C-3
- EXTERIOR CONCRETE CLASS E-2 AE - SLABS**  
 (SLAB NOTE "B"), SIDEWALKS, STOOPS, CURBS, ETC.  
 CONCRETE WALLS EXPOSED TO THE EXTERIOR E-2 AE
- CONCRETE MASONRY UNITS**  
 MASONRY GROUT
- REINFORCING STEEL -**  
 GRADE 60 ksi ASTM A615
- STRUCTURAL STEEL -**  
 W SHAPES, CHANNELS  
 GRADE 50 ksi ASTM A572  
 ANGLES  
 GRADE 36, ASTM A536  
 PIPE  
 GRADE 40 OR 50, ASTM A500B OR A500C  
 TUBES, HSS  
 PLATES LESS THAN 4" THICK  
 PLATES GREATER THAN 4" THICK  
 GRADE 36, ASTM A36
- 2018 IBC DESIGN LOAD INFORMATION**
- 1603.1.1 FLOOR LIVE LOAD  
 SIDEWALK 300 psf
- 1603.1.2 ROOF LIVE LOAD 20 psf
- 1603.1.3 ROOF SNOW LOAD  
 GROUND SNOW LOAD, P<sub>g</sub> (NON-REDUCIBLE) 25 psf  
 FLAT ROOF SNOW LOAD, P<sub>f</sub> (NON-REDUCIBLE) 21 psf  
 SNOW EXPOSURE FACTOR, C<sub>e</sub> 1.0  
 SNOW LOAD IMPORTANCE FACTOR, I<sub>s</sub> 1.0  
 THERMAL FACTOR, C<sub>t</sub> 1.2  
 WIND EXPOSURE FACTOR, C<sub>e</sub> 1.0  
 DRIFT SURCHARGE LOAD(S), P<sub>d</sub> N/A
- 1603.1.4 WIND DESIGN DATA  
 BASIC DESIGN (ULTIMATE) WIND SPEED, V 85 mph  
 ALLOWABLE STRESS DESIGN WIND SPEED, V<sub>ASD</sub> 85 mph  
 RISK CATEGORY II  
 WIND EXPOSURE C  
 INTERNAL PRESSURE COEFFICIENT BY CANOPY MFR
- 1603.1.5 EARTHQUAKE DESIGN DATA  
 RISK CATEGORY II  
 SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> 1.00  
 0.2-SEC. MAPPED SPECTRAL ACCELERATION, S<sub>s</sub> 10.8 %g  
 1-SEC. MAPPED SPECTRAL ACCELERATION, S<sub>1</sub> 4.9 %g  
 SEISMIC SITE CLASS D (DEFAULT)  
 0.2-SEC. SPECTRAL RESPONSE ACCELERATION, S<sub>0.2</sub> 11 %g  
 1-SEC. SPECTRAL RESPONSE ACCELERATION, S<sub>1</sub> 7.2 %g  
 SEISMIC DESIGN CATEGORY B  
 BASIC SEISMIC FORCE-RESISTING SYSTEM BY CANOPY MFR  
 DESIGN BASE SHEAR(S) BY CANOPY MFR  
 SEISMIC RESPONSE COEFFICIENT(S), C<sub>s</sub> BY CANOPY MFR  
 RESPONSE MODIFICATION COEFFICIENT(S), R BY CANOPY MFR  
 ANALYSIS PROCEDURE BY CANOPY MFR
- 1603.1.6 GEOTECHNICAL INFORMATION  
 BEARING CAPACITY 1,500 psf (1806.2 PRESUMPTIVE VALUE)
- 1603.1.7 FLOOD DESIGN DATA n/a
- 1603.1.8 SPECIAL LOADS n/a
- 1603.1.9 ROOF RAIN LOAD DATA  
 15-MINUTE PRECIPITATION INTENSITY 5.44 in./h  
 60-MINUTE PRECIPITATION INTENSITY 2.62 in./h

**REVISIONS**

**NOTES**

**SLAB NOTE "A"**  
 AQUAPONICS ROOM CONCRETE FLOOR NOTE - f<sub>c</sub>=3,000 PSI  
 CONCRETE REINFORCED WITH 2-LAYERS OF 6x6-W2.8W2.9 WELDED WIRE FABRIC ON CHAIRS OVER VAPOR BARRIER ON 6" WASHED GRAVEL BASE (SEE SHEET A-1.1 FOR ADDITIONAL DETAILS).

**SLAB NOTE "B"**  
 STRUCTURAL SLAB NOTE - f<sub>c</sub>=4,500 PSI A.E.  
 5-1/2" MIN. CONCRETE SLAB REINFORCED WITH #4 BARS AT 12" ON CENTER LONG WAY AND #4 BARS AT 6" ON CENTER SHORT WAY. ALL BARS ON CHAIRS ON 1-5/16" 24 GAUGE GALVANIZED FORMING. (SLOPE 1/4" PER FOOT) AIR ENTRAINED.

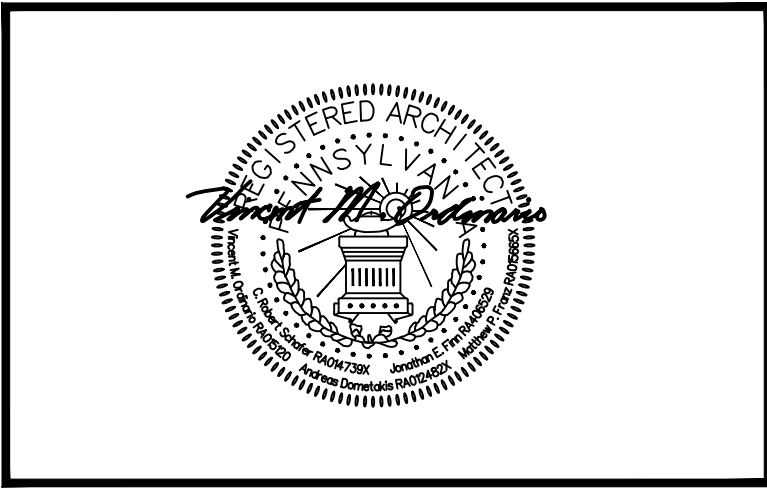
**SLAB NOTE "C"**  
 TYPICAL CONCRETE FLOOR NOTE, U.O.N. - f<sub>c</sub>=3,000 PSI  
 ALL FLOOR SLABS ON GRADE TO BE 4" THICK CONCRETE REINFORCED WITH 6x6-W2.8W2.9 WELDED WIRE FABRIC ON CHAIRS OVER VAPOR BARRIER ON 6" WASHED GRAVEL BASE.

- NOTES:**
- ALL CONCRETE SLABS ARE TO BE CURED AS PER THE REQUIREMENTS IN THE PROJECT MANUAL.
  - PROVIDE AND PLACE CONTROLLED, COMPACTED STRUCTURAL FILL (IN 8" LIFTS) FROM LEVEL OF APPROVED SUBGRADE TO UNDERSIDE OF WASHED GRAVEL. PRIOR TO THE PLACEMENT OF FILL, THE BOTTOM OF THE EXCAVATION SHALL BE THOROUGHLY COMPACTED TO OPTIMUM DENSITY OR IF UNSTABLE, REMOVED TO APPROVED COMPETENT MATERIAL AS PER THE REQUIREMENTS OF THE PROJECT MANUAL.
  - SEE SITE PLAN FOR EXISTING GRADES TO DETERMINE PORTIONS OF CUT AND FILL. FILL PLACEMENT AND EXISTING FILL REMOVAL SHALL BE AS PER REQUIREMENTS IN THE PROJECT MANUAL.

**NOTE:**  
 THE INTEGRITY OF THE EXISTING BUILDING AND FOUNDATION SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.



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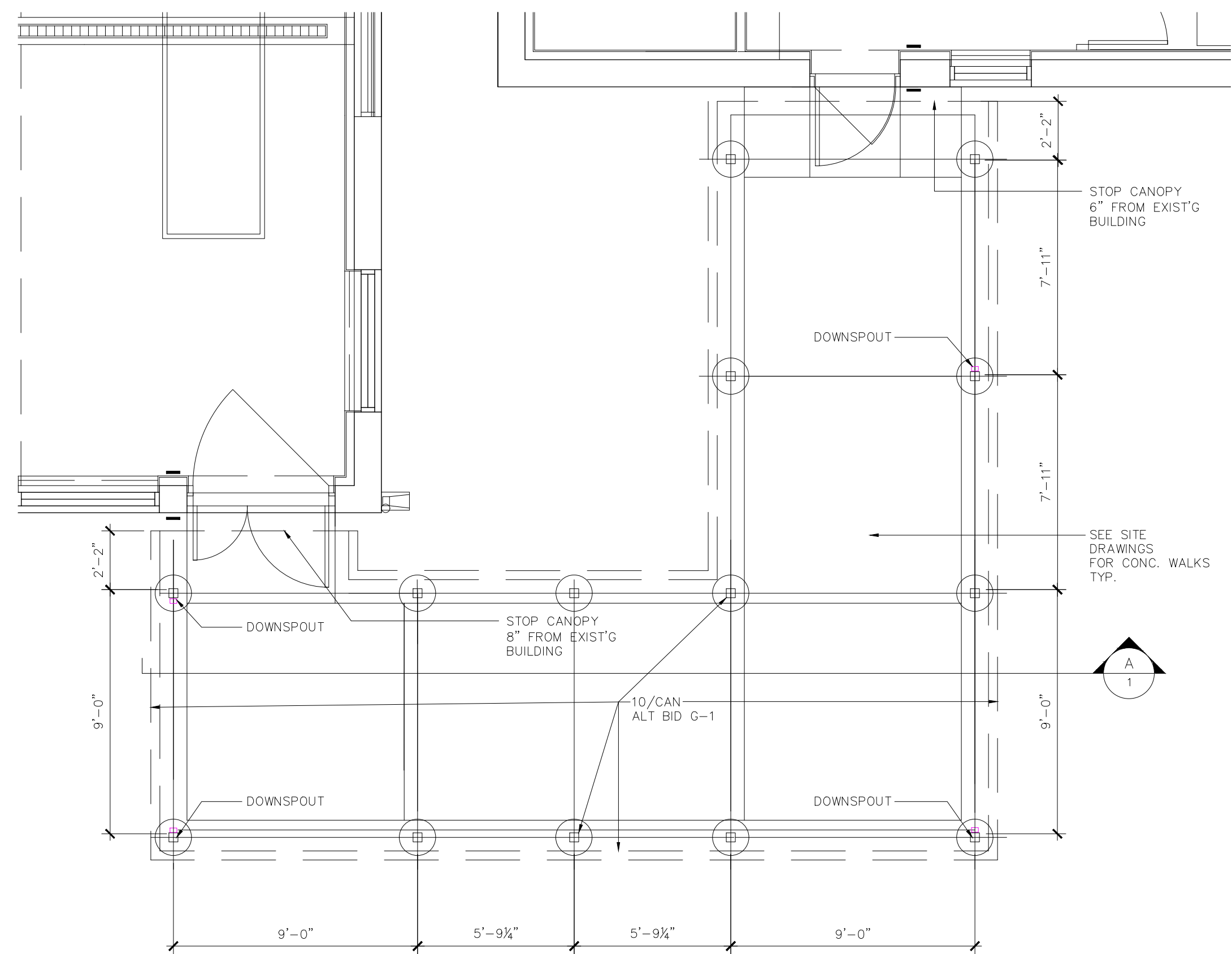


**MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM**  
 41 MUNNELL RUN LANE  
 MERCER, PA 16137

FOR THE  
**MERCER COUNTY COMMISSIONERS**  
 125 SOUTH DIAMOND STREET  
 MERCER, PA 16137

**FOUNDATION PLAN, NOTES & DETAILS**

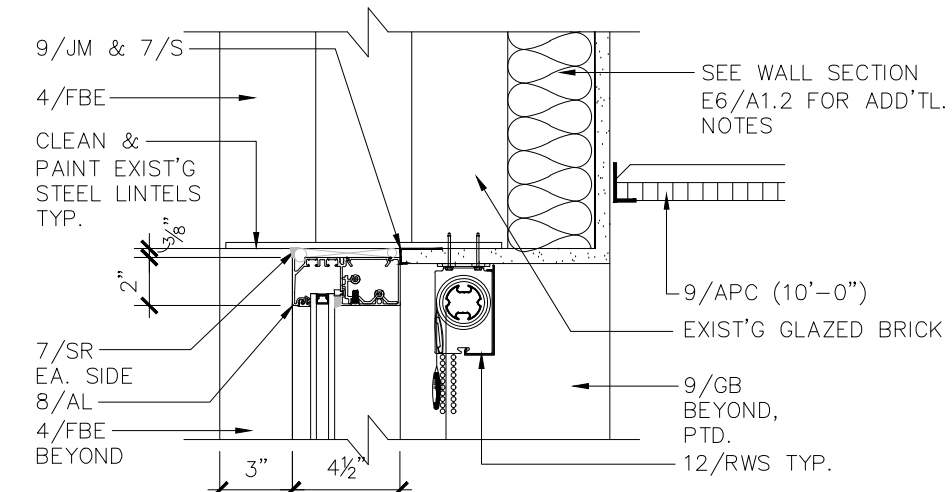
COMM. NO. 4826  
 SHEET NO. A-1.4  
 DATE 05/29/26  
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**CANOPY PLAN**

1/2"=1'-0"

ALTERNATE BID G-1  
KEYNOTE: 10/CAN

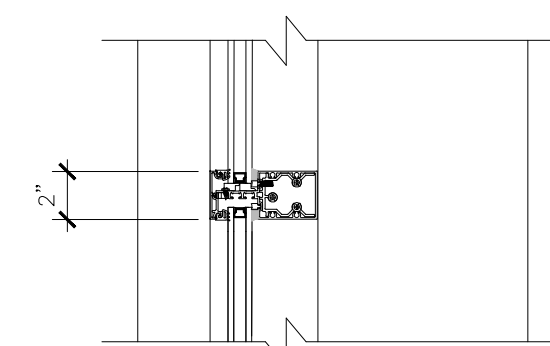


**HEAD**

1 1/2"=1'-0"

A3

A1.5

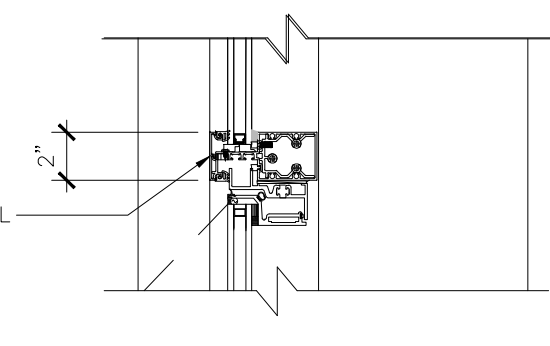


**HORIZ. MULL.**

1 1/2"=1'-0"

B3

A1.5

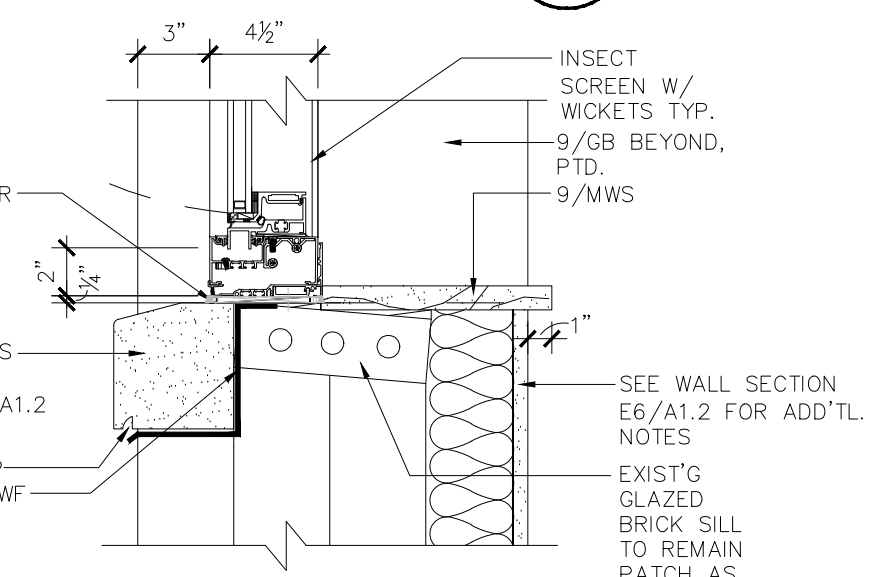


**HEAD @ OPER.**

1 1/2"=1'-0"

C3

A1.5

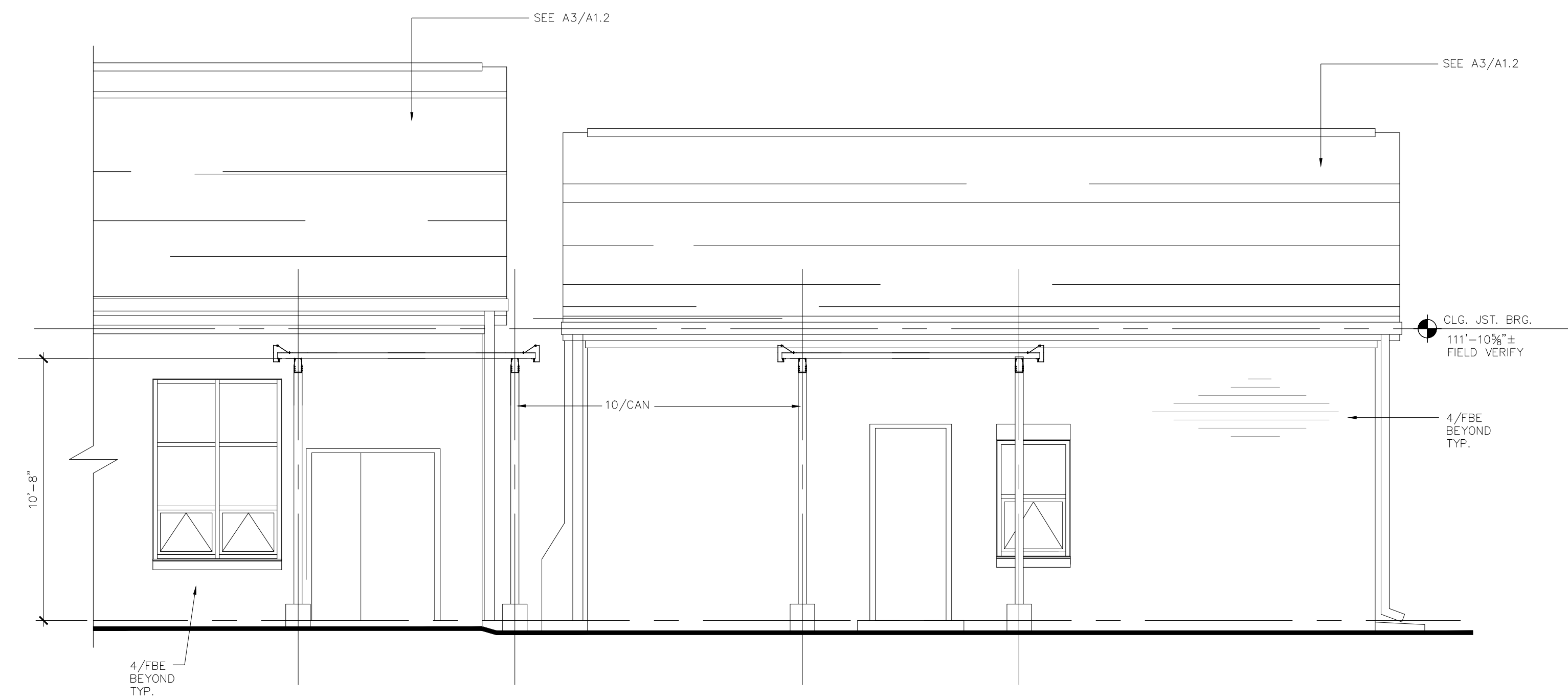


**SILL**

1 1/2"=1'-0"

D3

A1.5



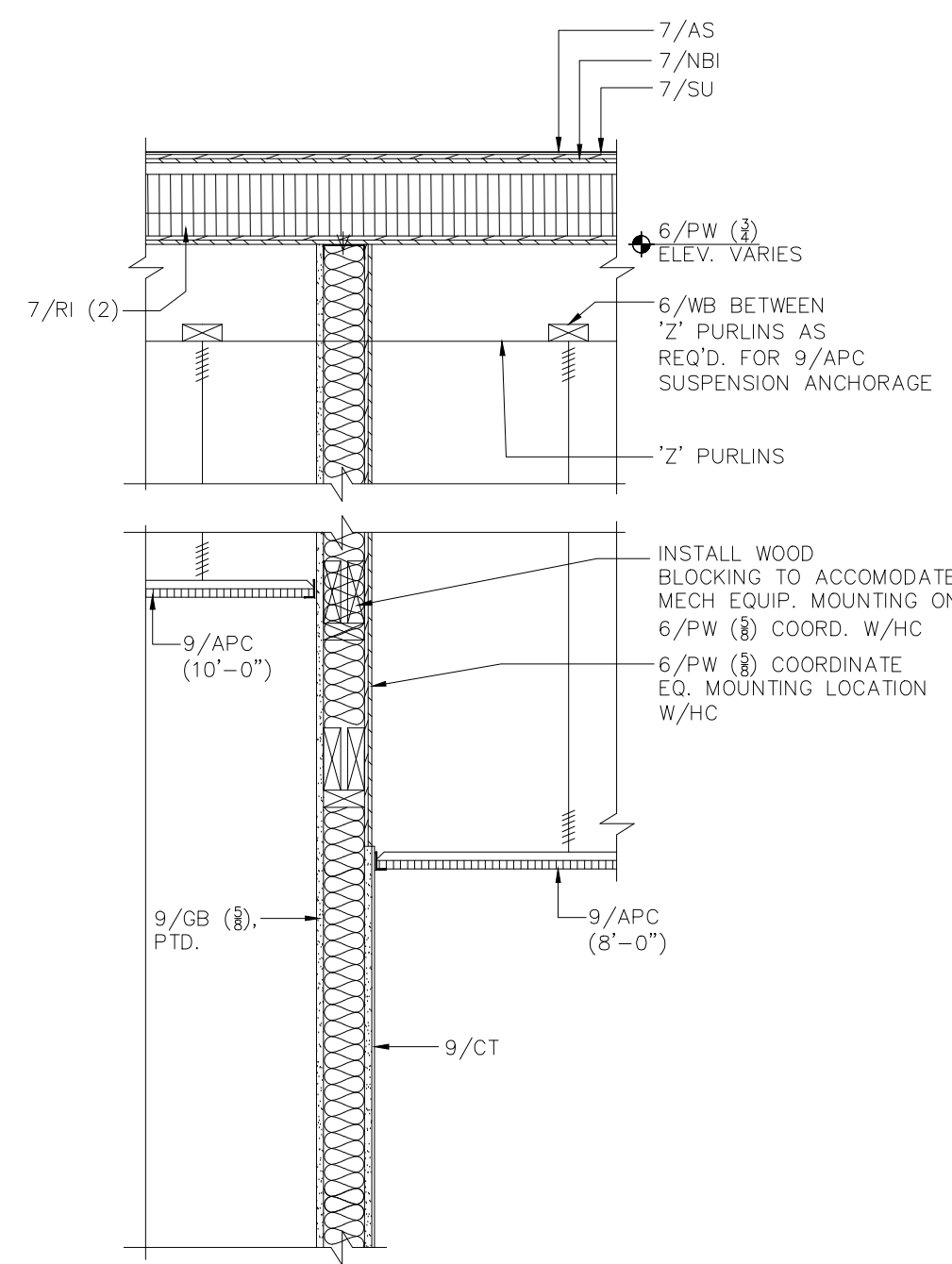
**CANOPY SECTION**

1/2"=1'-0"

ALTERNATE BID G-1  
KEYNOTE: 10/CAN

E3

A1.5

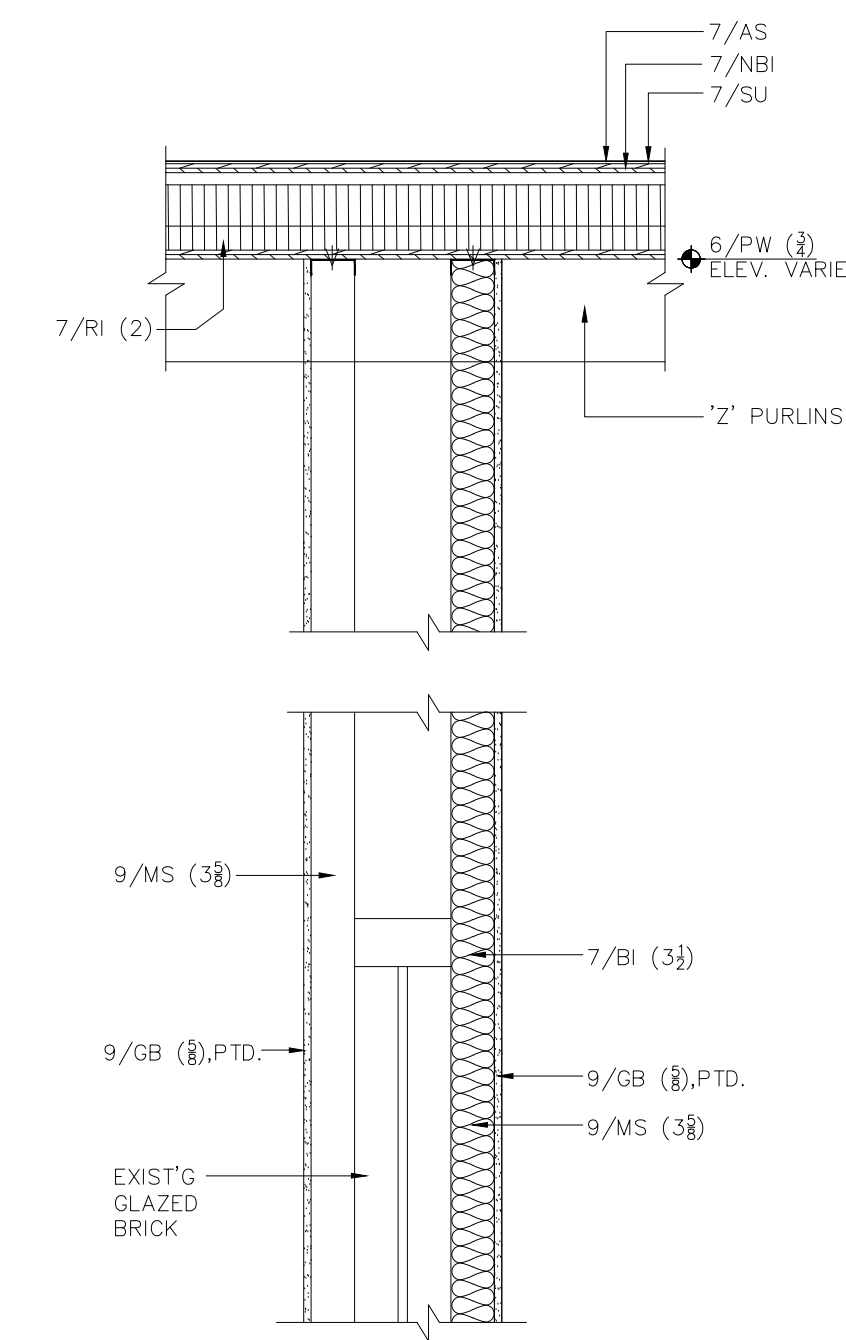


**SECTION**

1/2"=1'-0"

B4

A1.5

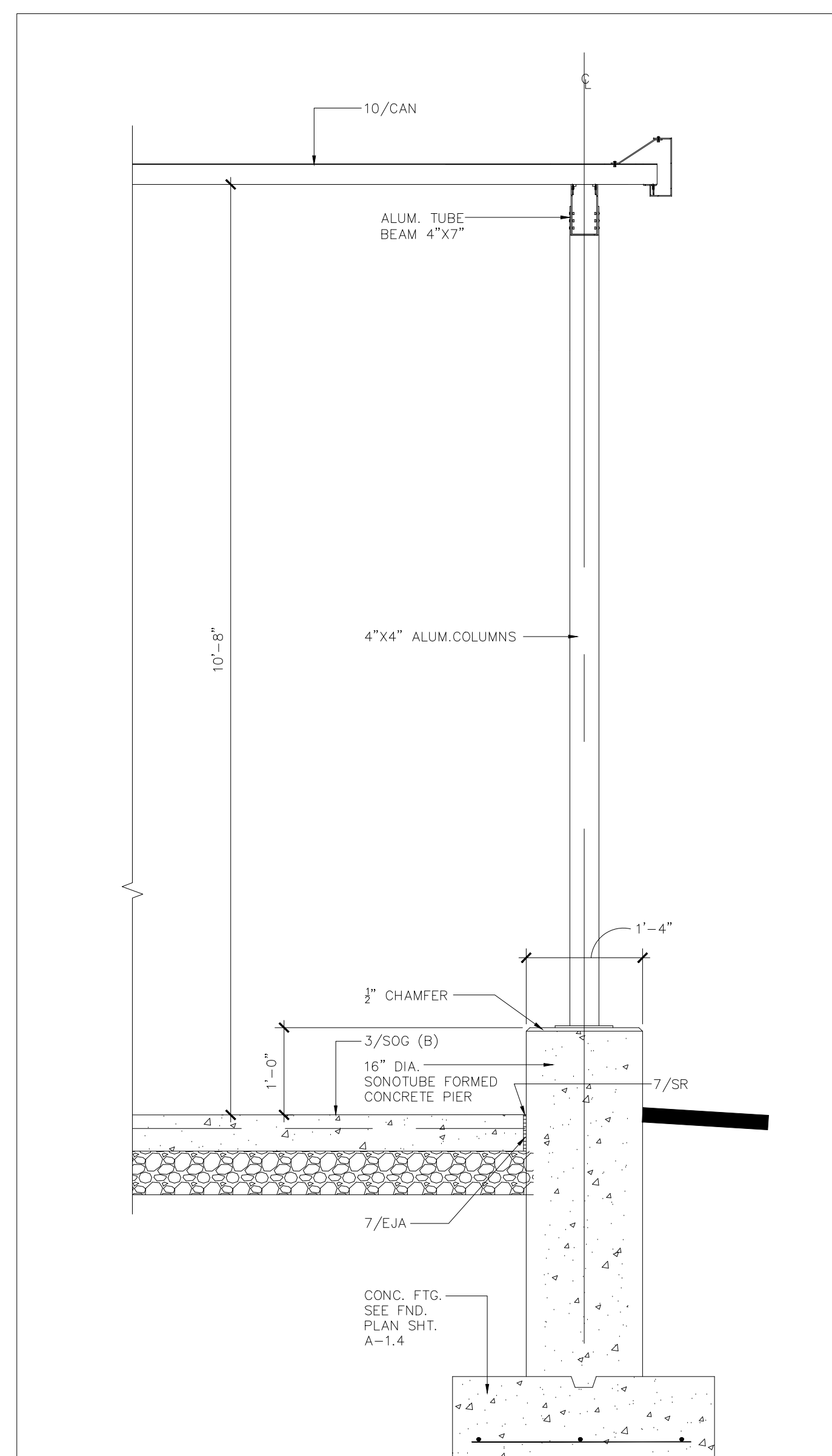


**SECTION**

1/2"=1'-0"

B5

A1.5



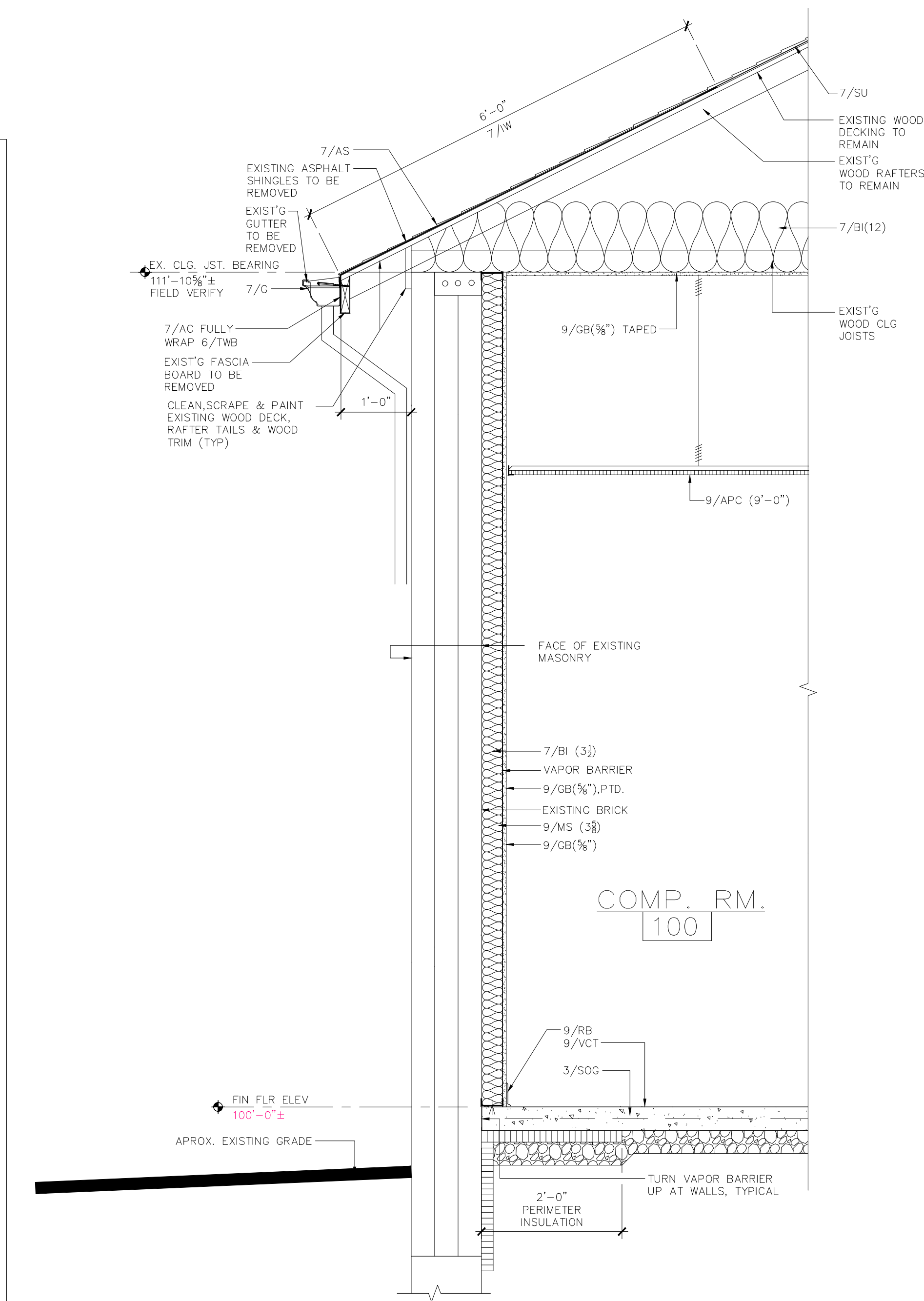
**SECTION**

1/4"=1'-0"

ALTERNATE BID G-1

E4

A1.5



**SECTION**

1/4"=1'-0"

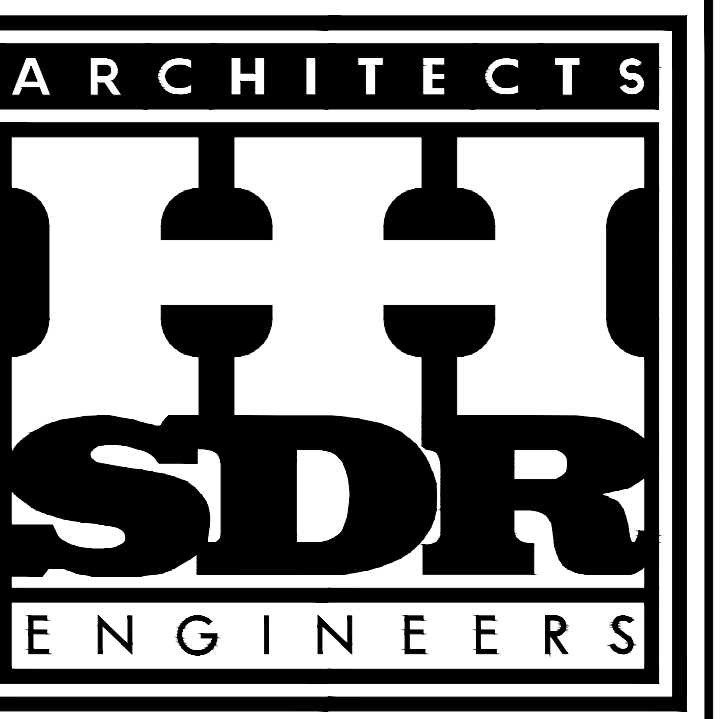
E6

A1.5

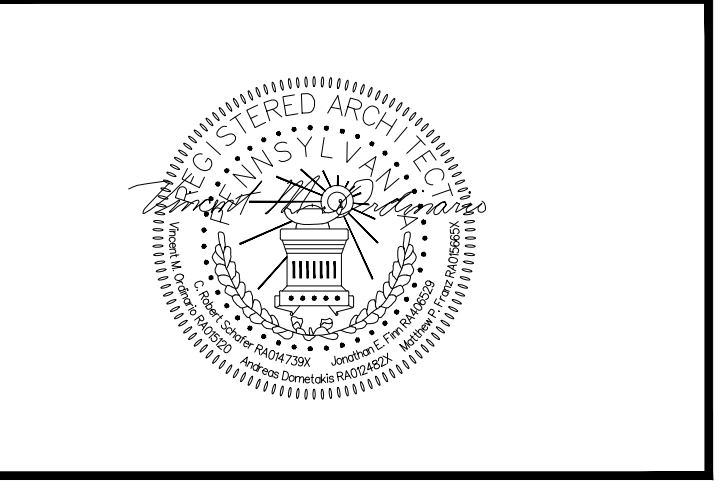
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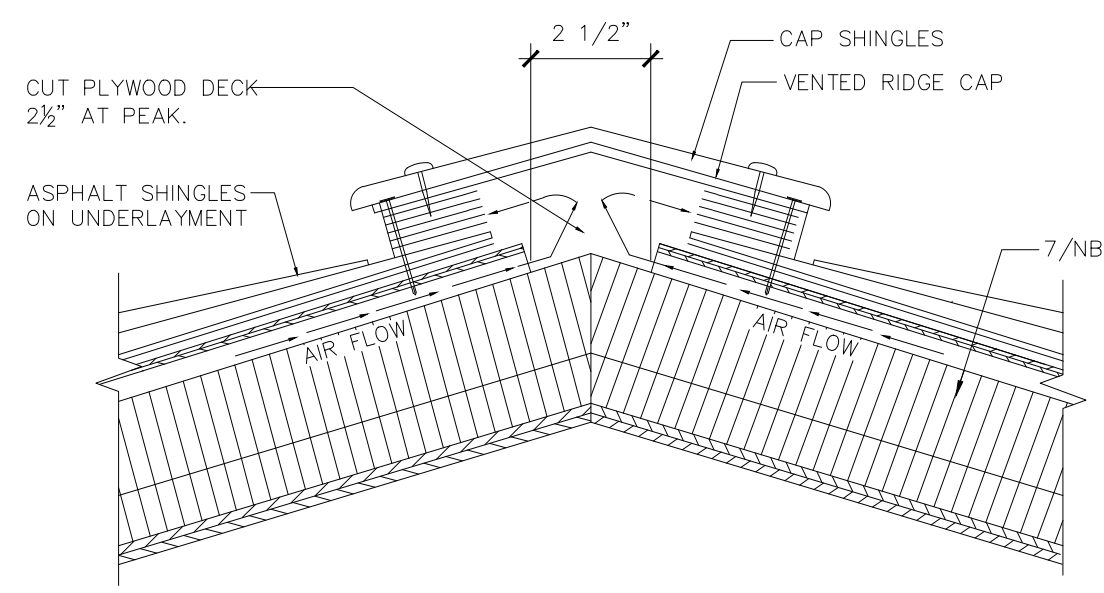
MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM  
41 MUNNELL RUN LANE  
MERCER, PA 16137

FOR THE  
MERCER COUNTY COMMISSIONERS  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

**CANOPY PLAN AND DETAILS**

COMM. NO. 4826  
DATE 05/29/26

SHEET NO. **A-1.5**  
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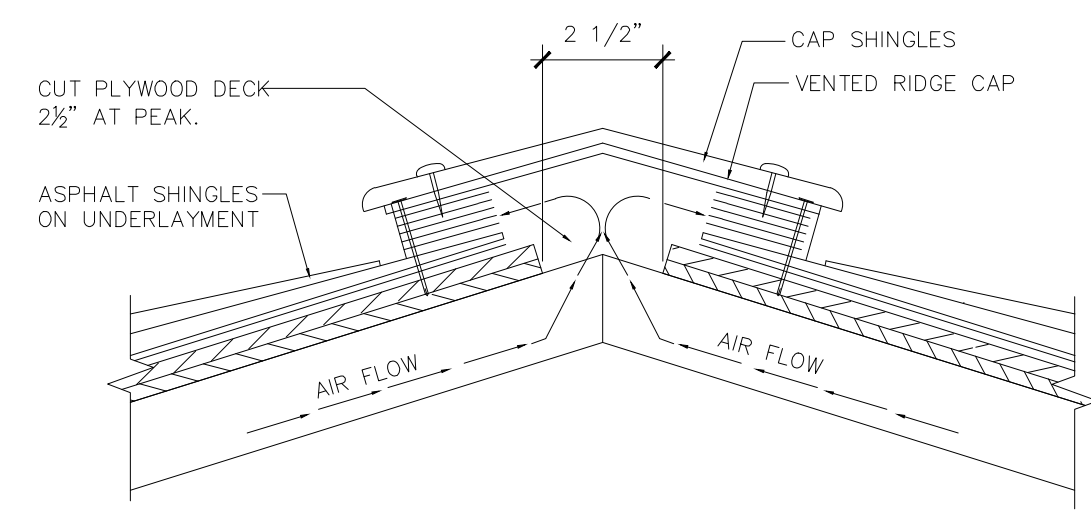


TYPICAL SHINGLE VENTED RIDGE CAP

**DETAIL**

NTS

A2  
A1.6

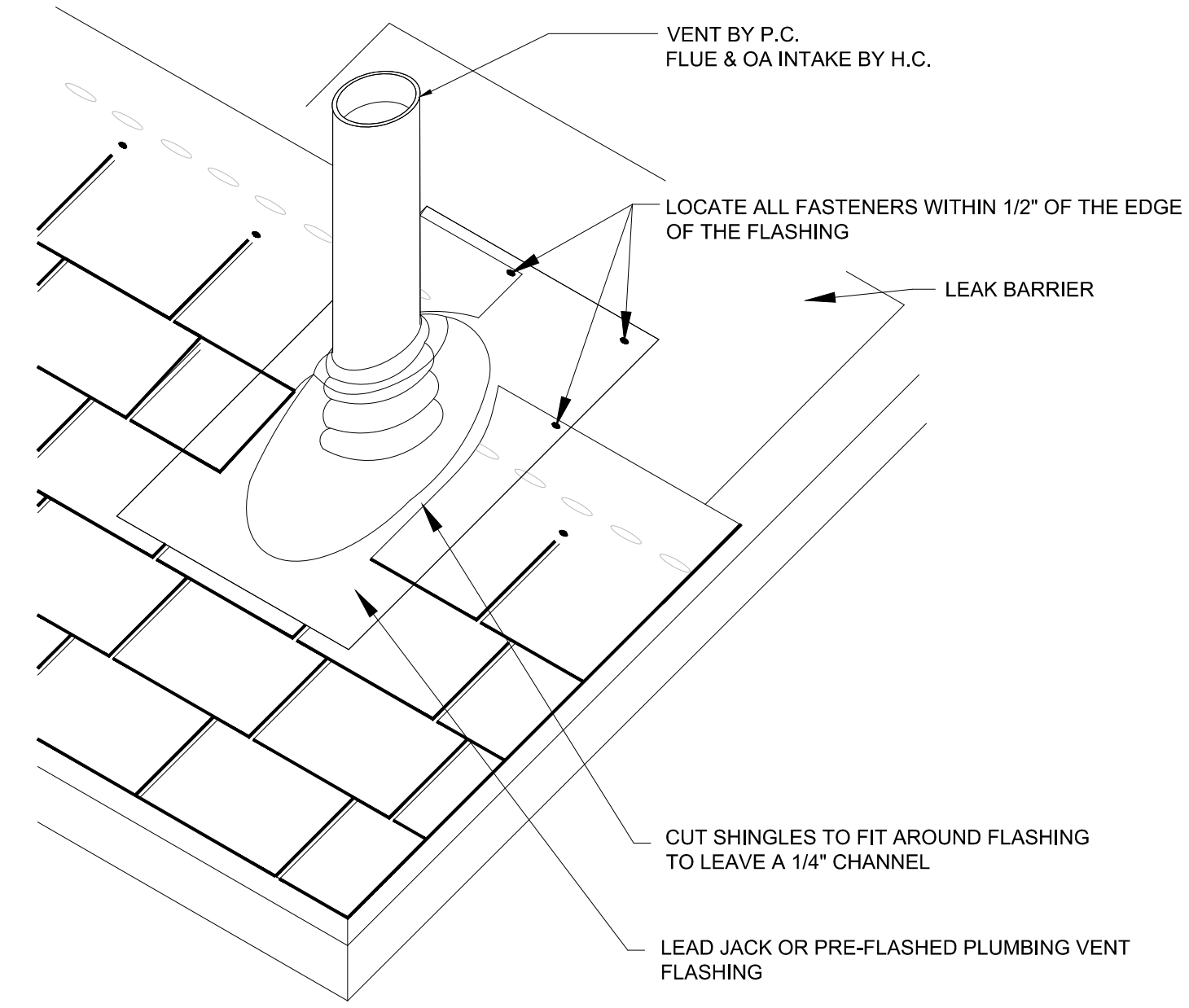


TYPICAL SHINGLE VENTED RIDGE CAP

**DETAIL**

NTS

A3  
A1.6

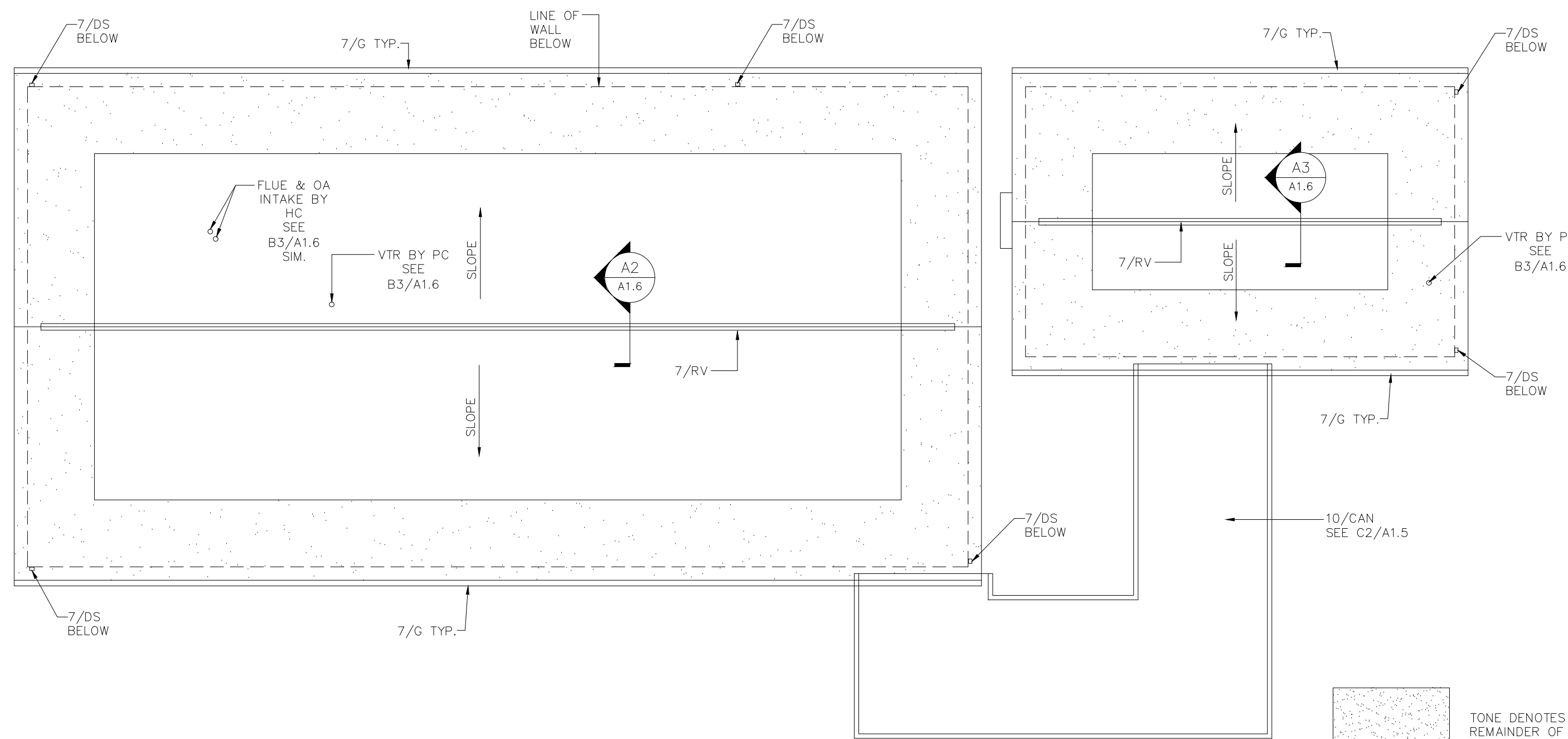


TYPICAL VENT THRU ROOF

**DETAIL**

NTS

B3  
A1.6



N

E3  
A1.5

**ROOF PLAN**

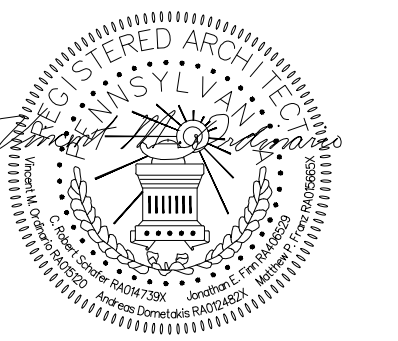
1/8"=1'-0"

REVISIONS

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05/29/26

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**A-1.6**  
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### HVAC ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ABS	ABSOLUTE
ABV	ABOVE
AC	ALTERNATING CURRENT
AF	ABOVE FINISH FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALUM	ALUMINUM
ALT	ALTERNATE OR ALTITUDE
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATC	AUTOMATIC TEMPERATURE CONTROL
AUTO	AUTOMATIC
AUX	AUXILIARY
APPROX	APPROXIMATELY
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERANT AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ATM	ATMOSPHERE
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BC	BALANCING COCK
BCU	BLOWER COIL UNIT
BDD	BACKDRAFT DAMPER
BPV	BUTTERFLY VALVE
BGD	BURST GATE DAMPER
BHP	BREAK HORSE POWER
BJ	BALL JOINT
BLW	BELOW
BLDG	BUILDING
BO	BLOW OFF
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
C	CELSIUS
CAP	CAPACITY
CART	CARTIDGE
CCW	COUNTER CLOCKWISE
CFM	CENTRIFUGAL
CFM	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CIRC	CIRCULATING
CHKV	CHECK VALVE
CKT	CIRCUIT
CLG	CEILING
CO	CLEAN OUT
COEFF	COEFFICIENT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUATION
CONTR	CONTRACTOR
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CW	CLOCKWISE
dB	DECIBEL
dB	DECIBEL A-WEIGHTED
DB	DRY BULB TEMPERATURE
DC	DIRECT CURRENT
DEG (°)	DEGREE
DENS	DENSITY
DHW	DOMESTIC HOT WATER
DI	DIAMETER
DIF	DIFFUSER
DISCH	DISCHARGE
DN	DOWN
DPR	DAMPEN
DPT	DEW POINT TEMPERATURE
DR	DRAIN
DS	DISCONNECT SWITCH
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH OR EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
EL	ELEVATION
ELECT	ELECTRIC
ENCLOS	ENCLOSURE
ENT	ENTERING
EQUIP	EQUIPMENT
ER	ECCENTRIC REDUCER
ETC	ETCETERA
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
F	FAHRENHEIT
FAT	FLAT AND THERMOSTATIC
FC	FLEXIBLE CONNECTION OR FORWARD CURVED
FCD	FLOW CONTROL DEVICE
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FLG	FLANGE
FLR	FLOOR
FNL	FUNNEL
FNL DR	FUNNEL DRAIN
FO	FLAT OVAL
FPF	FINS PER FOOT
FPI	FINS PER INCH
FS	FEET PER MIN
FPS	FEET PER SECOND
FR	FROM
FSC	FOOD SERVICE CONTRACTOR
FSD	COMBINATION FIRE-SMOKE DAMPER
FT	FEET
FTG	FITTING
FW	FEED WATER
GA	GAUGE
GA	GALLON
GC	GENERAL CONTRACTOR
GI	GALVANIZED IRON
GLV	GLOBE VALVE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRAV	GRAVITY
GV	GATE VALVE
HRD	HEADER
Hg	MERCURY
HORIZ	HORIZONTAL
HP	HORSE POWER
HPD	HIGH PRESSURE DRIP
HR	HOUR
HTG	HEATING
HZ	FREQUENCY (HERTZ)

### HVAC ABBREVIATIONS

IBD	INVERTED BUCKET TRAP
ID	INSIDE DIAMETER
IER	INVERTED ECCENTRIC REDUCER
INSUL	INSULATED
IPLV	INTEGRATED PART LOAD VALUE
KEM	KITCHEN EQUIPMENT MANUFACTURER
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LH	LATENT HEAT
LQ	LIQUID
LP	LOW PRESSURE
LPD	LOW PRESSURE DRIP
LTG	LEAVING WET BULB
LWB	LOW WATER CUT OFF
LWCO	LOW WATER CUT OFF
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BTUS
MC	MECHANICAL CONTRACTOR
MCF	THOUSAND CUBIC FEET
MFG	MANUFACTURER
MIN	MINIMUM
MH	MANHOLE
MPH	MILES PER HOUR
MPD	MEDIUM PRESSURE DRIP
MTD	MOUNTED
MTL	METAL
MTR	MOTOR
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED OR NOISE CRITERIA
NIC	NOT IN CONTRACT
NOM	NOMINAL PART LOAD VALUE
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OPER	OPERATED
OPNG	OPENING
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PG	PRESSURE GAUGE WITH COCK
PH	PHASE
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PIPE SUPPORT
PSF	POUNDS PER SQUARE FOOT
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PRESSURE TRAP
QTY	QUANTITY
R	THERMAL RESISTANCE
RA	RETURN AIR
RD	ROOF DRAIN
REFRIG	REFRIGERANT
REQD	REQUIRED
RET	RETURN
REV	REVOLUTIONS
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
RV	RAIN WATER CONDUCTOR
RWC	RAIN WATER CONDUCTOR
SA	SUPPLY AIR
SAT	SATURATED
SCH	SCHEDULE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE
SG	SPECIFIC GRAVITY
SH	SENSIBLE HEAT
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STR	STRAINER
SUCT	SUCTION
SUP	SUPPLY
SV	SAFETY VALVE
SW	SWITCH
TAB	TEST, ADJUST AND BALANCE
TCV	TEMPERATURE CONTROL VALVE
TDV	TRIPLE DUTY VALVE
TEMP	TEMPERATURE OR TEMPORARY
TH	TOTAL HEAT OR THERMOMETER
TK	TANK
TONS	TONS OF REFRIGERANT
TOT	TOTAL
TRANS	TRANSITION
TSTAT	THERMOSTAT
TSP	TOTAL STATIC PRESSURE
TT	THERMOSTATIC TRAP
TV	TURNING VANE
TV	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VAC	VACUUM
VEL	VELOCITY
VFS	VENTURI
VOL	VOLUME
VTR	VENT THRU ROOF
W	WATT
WB	WET BULB
WG	WATER GAUGE
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WPS	WATER PRESSURE SWITCH
WT	WEIGHT
WTD	WATER TEMPERATURE DIFFERENCE
XR	EXISTING TO REMAIN
ZCV	ZONE CONTROL VALVE

### HVAC EQUIPMENT ABBREVIATIONS

ACC	AIR-COOLED CHILLER
ACU	AIR-COOLED CONDENSING UNIT
ACU	AIR-CONDITIONING UNIT (SELF-CONTAINED)
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
ASHP	AIR SOURCE HEAT PUMP
B	BOILER
BB	BASE BOARD RADIATION
CC	COOLING COIL
CH	CHILLER
CP	CONDENSATE PUMP
COMP	COMPRESSOR
COND	CONDENSER
CONV	CONVECTOR
CRAC	COMPUTER ROOM AIR-CONDITIONING UNIT
CT	COOLING TOWER
CUH	CABINET UNIT HEAT
DOAS	DEDICATED OUTDOOR AIR SYSTEM
EF	EXHAUST FAN
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EVAP	EVAPORATOR
EWH	ELECTRIC WALL HEATER
FCU	FAN COIL UNIT
FPB	FAN POWERED BOX
FT	FINNED TUBE RADIATION
GRV	GRAVITY ROOF VENTILATOR
HC	HEATING COIL
HU	HUMIDIFIER
HU	HORIZONTAL UNIT HEATER
IDF	INDUCED DRAFT FAN
MAU	MAKE-UP AIR UNIT
P	PUMP
PTAC	PACKAGED TERMINAL AIR CONDITIONING UNIT
PTHP	PACKAGED TERMINAL HEAT PUMP
RF	RETURN FAN
RP	RADIANT PANEL
RTAHU	ROOF TOP AIR HANDLING UNIT
RHC	REHEAT COIL
RTU	ROOF TOP UNIT
SA	SOUND ATTENUATOR
SF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SSI	SPLIT SYSTEM (INDOOR UNIT)
SSO	SPLIT SYSTEM (OUTDOOR UNIT)
UH	UNIT HEATER
UV	UNIT VENTILATOR
VFD	VARIABLE FREQUENCY DRIVE
VAV	VARIABLE AIR VOLUME BOX
WSP	WATER SOURCE HEAT PUMP

### HVAC PIPING ABBREVIATIONS

— CDL —	CONDENSATE DRAIN LINE
— HWR —	HOT WATER RETURN (HEATING)
— HWS —	HOT WATER SUPPLY (HEATING)

### HVAC ELECTRICAL SYMBOLS

	DUCT MOUNTED SMOKE DETECTOR
	SWITCH
	VARIABLE FREQUENCY DRIVE

### HVAC PIPING SYMBOLS

	PIPE TEE UP
	PIPE TEE DOWN
	PIPE ELBOW UP
	PIPE ELBOW DOWN
	DIRECTION OF PIPE SLOPE DOWN
	DIRECTION OF FLOW
	ISOLATION VALVE STATION
	GATE VALVE OR GENERIC ISOLATION VALVE
	BALL VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	PLUG VALVE
	BALANCING VALVE
	CHECK VALVE
	TRIPLE DUTY VALVE
	ISOLATION VALVE IN RISER
	TWO-WAY VALVE WITH ELECTRONIC ACTUATOR
	THREE-WAY VALVE WITH ELECTRONIC ACTUATOR
	STRAINER
	STRAINER IN LOW FLOW OFF
	FLANGE
	UNION, SCREWED
	CAPPED PIPE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	INVERTED ECCENTRIC REDUCER
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	AQUASTAT
	CLEAN OUT
	PRESSURE GAUGE WITH SHUT OFF COCK
	THERMOMETER WITH SEPARABLE WELL
	THERMOMETER / INSTRUMENT WELL
	PRESSURE / TEMPERATURE PORT
	SAFETY OR RELIEF VALVE
	VENTURI TYPE FLOW METER
	INLINE FLOW METER
	FLOW BALANCING DEVICE
	PRESSURE REDUCING VALVE
	FLOW INDICATOR
	WATER FLOW SWITCH
	FUNNEL DRAIN
	THERMOSTATIC TRAP
	INVERTED BUCKET TRAP
	FLOAT & THERMOSTATIC TRAP
	VACUUM BREAKER
	MAIN DRIP
	PIPE GUIDE
	PIPE ANCHOR
	EXPANSION JOINT
	FLEXIBLE CONNECTION / VIBRATION ISOLATION
	AUTOMATIC AIR VENT
	MANUAL AIR VENT

### HVAC SYMBOLS

	TEMPERATURE SENSOR WITH VENTED LOCKING COVER
	HUMIDISTAT
	CONNECTION POINT - NEW TO EXISTING
	DISCONNECTION POINT
	NUMBERED NOTES
	REVISION SEQUENCE
	SUPPLY DIFFUSER - 4-WAY BLOW
	AIR FLOW ARROW
	CEILING MOUNTED RETURN OR EXHAUST GRILLE / REGISTER

### HVAC SYMBOLS (CONT.)

	INTERIOR CLEAR DUCTWORK DIMENSIONS; WIDTH/HEIGHT
	SUPPLY DUCT TOWARD VIEWER
	SUPPLY DUCT AWAY FROM VIEWER
	RETURN OR EXHAUST DUCT TOWARD VIEWER
	RETURN OR EXHAUST DUCT AWAY FROM VIEWER
	OUTSIDE AIR DUCT TOWARD VIEWER
	OUTSIDE AIR DUCT AWAY FROM VIEWER
	FLEXIBLE CONNECTION
	TRANSITION; SYMMETRIC
	TRANSITION; ASYMMETRIC
	TRANSITION; RECTANGULAR TO ROUND
	90 DEG RADIUS ELBOW (RW = 1.5)
	MITERED ELBOW WITH TURNING VANES

### GENERAL NOTES:

- WATER**
- PIPING IS SHOWN ON DRAWINGS DIAGRAMMATICALLY FOR CLARITY PURPOSES AND DOES NOT INDICATE TOP OR BOTTOM TAPS AT MAINS.
  - RUN-OUT PIPE SIZES FOR ALL TERMINAL EQUIPMENT ARE AS NOTED.
  - ALL DOWN FEED BRANCHES SHALL BE MADE WITH BOTTOM CONNECTIONS AT MAINS WITH DRAIN COCKS INSTALLED AT LOWEST POINT.
  - ALL HORIZONTAL LINES SHALL BE RUN LEVEL WITHOUT POCKETS. WHERE POCKETS OCCUR, MANUAL AIR VENTS SHALL BE INSTALLED AT EACH VERTICAL RISE.
  - ALL UP FEED RISERS SHALL BE MADE WITH TOP CONNECTIONS AT MAIN. ALL DOWN FEED RISERS SHALL BE MADE WITH BOTTOM CONNECTIONS AT MAIN.
  - CHANGES OF PIPE SIZES ON HORIZONTAL RUNS SHALL BE MADE WITH INVERTED ECCENTRIC REDUCERS WITH TOP OF PIPE LEVEL.
  - ARROWS ON SUPPLY AND RETURN LINES INDICATE DIRECTIONS OF FLOW.
  - PROVIDE VALVE WITH HOSE END ON ALL LOW POINTS OF PIPING SYSTEM.

### GENERAL

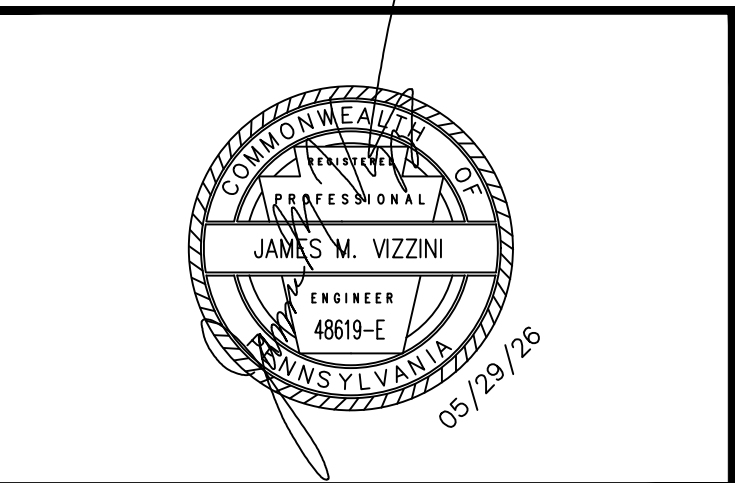
- DO NOT SCALE DRAWINGS - ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE. ALL WORK PERFORMED ON THIS BUILDING SHALL BE IN COMPLIANCE WITH ALL PERTINENT CODES, RULES, ORDINANCES AND REGULATIONS OF THE LOCAL AND STATE GOVERNING AUTHORITIES.
- ALL WORK PERFORMED UNDER AND IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST OSHA SAFETY AND HEALTH STANDARDS.
- REPORT ANY DISCREPANCIES FOUND IN THE MECHANICAL DRAWINGS OR IN THE SPECIFICATIONS DURING THE BIDDING PROCESS FOR CLARIFICATION BY THE ENGINEER.
- COORDINATE LOCATION OF SHEET METAL PIPING, EQUIPMENT, ETC. WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH CONDUIT, LIGHT FIXTURES, SPRINKLERS, PIPING, CEILING, ETC. THE H.C. SHALL BE RESPONSIBLE FOR ALL EXTERIOR WALL PENETRATIONS.
- DUCTWORK AND PIPING SHALL NOT BE LOCATED ABOVE ELECTRICAL GEAR.
- PANELS TO CONFORM TO NEC REQUIREMENTS.
- THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. NOISE AND CONSTRUCTION DUST SHALL BE MINIMIZED AND KEPT OUT OF THE OCCUPIED AREAS OF THE BUILDING. AND UTILITY SHUT DOWNS SHALL BE SCHEDULED WITH THE SCHOOL 2 WEEKS IN ADVANCE AND SHALL NOT DISTURB BUILDING OPERATIONS.
- ALL DUCTWORK SIZES NOTED ARE FREE AREA SIZES.
- TURNING VANES SHALL BE PROVIDED IN ALL DUCT ELBOWS.
- ALL DUCT JUNCTIONS SHALL BE CONSTRUCTED OF STANDARD 45 DEGREES. ENTRY BRANCHES WITH BALANCING DAMPERS DOWNSTREAM OF DUCT BRANCH ENTRY.
- THE HVAC CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING FINISHES AND MATERIALS DURING DEMOLITION AND NEW WORK AND REPAIRING AND REPLACING THOSE MATERIALS IN KIND OF DAMAGED DURING THE DEMOLITION/CONSTRUCTION PROCESS AT NO ADDITIONAL COST TO THE PROJECT. ANY MATERIALS THAT ARE TEMPORARILY REMOVED AND STORED DURING WORK SHOULD BE PROPERLY PROTECTED.
- THE HVAC CONTRACTOR IS RESPONSIBLE TO REMOVE EXISTING CEILING TILE, GRID, AND TEMPORARILY WIRE/SUPPORT ANY LIGHTS AS REQUIRED TO ACCOMMODATE DEMOLITION WORK AND NEW WORK. CONTRACTOR TO STORE TILE AND GRID FOR REINSTALLATION.

### REVISIONS

### NOTES



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MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM 41 MUNNELL RUN LANE MERCER, PA 16137

FOR THE  
MERCER COUNTY COMMISSIONERS  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

### SYMBOLS, ABBREVIATIONS, & NOTES - HVAC

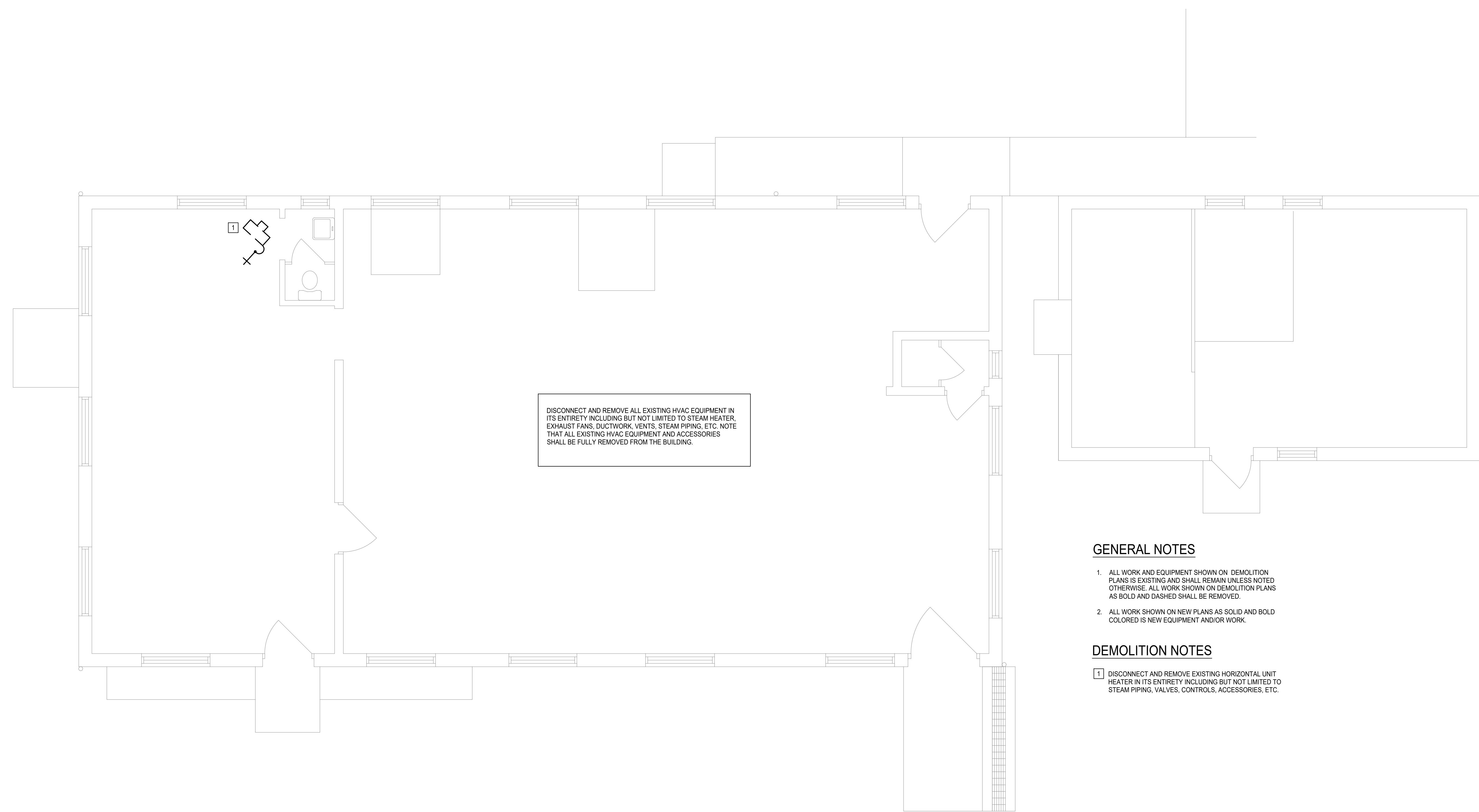
THIS SHEET IS PROVIDED FOR EASE OF REFERENCE AND SHALL NOT SUPERSEDE THE REQUIREMENTS OF THE PROJECT'S GENERAL OR SUPPLEMENTAL CONDITIONS OR THE TECHNICAL SPECIFICATIONS. SHOULD ANY CONFLICTS BE FOUND BETWEEN THE NOTES ON THIS SHEET AND OTHER CONTRACT DOCUMENTS, NOTIFY THE ENGINEER IN WRITING PRIOR TO BIDDING OR INSTALLATION.

THIS SHEET HAS BEEN ADAPTED TO BE PROJECT SPECIFIC. HOWEVER, NOT ALL SYMBOLS, ABBREVIATIONS OR GENERAL NOTES MAY APPLY TO THIS PROJECT.

COMM. NO. 4826  
DATE 05/29/26  
SHEET NO. H-0.1  
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REVISIONS

NOTES



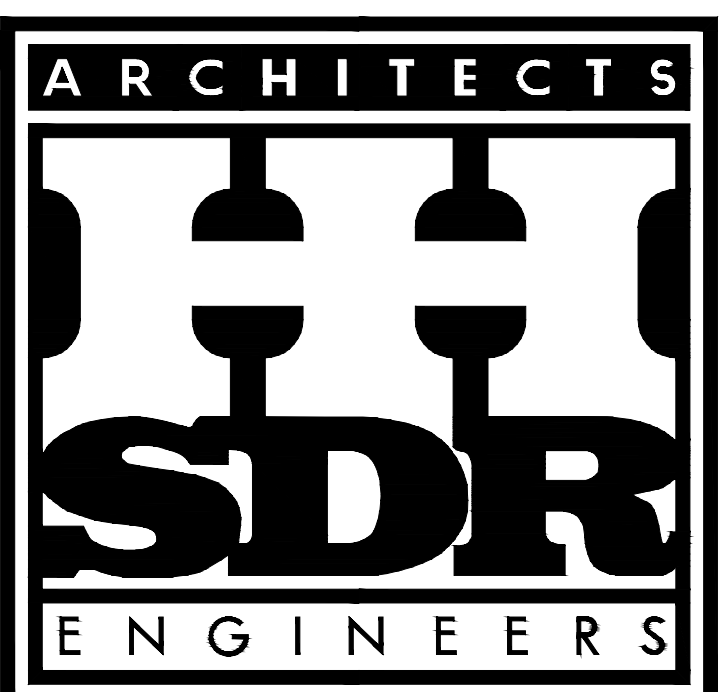
DISCONNECT AND REMOVE ALL EXISTING HVAC EQUIPMENT IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO STEAM HEATER, EXHAUST FANS, DUCTWORK, VENTS, STEAM PIPING, ETC. NOTE THAT ALL EXISTING HVAC EQUIPMENT AND ACCESSORIES SHALL BE FULLY REMOVED FROM THE BUILDING.

**GENERAL NOTES**

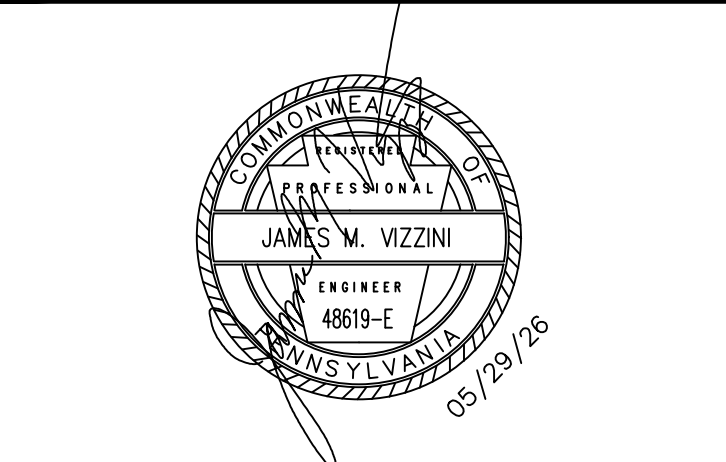
1. ALL WORK AND EQUIPMENT SHOWN ON DEMOLITION PLANS IS EXISTING AND SHALL REMAIN UNLESS NOTED OTHERWISE. ALL WORK SHOWN ON DEMOLITION PLANS AS BOLD AND DASHED SHALL BE REMOVED.
2. ALL WORK SHOWN ON NEW PLANS AS SOLID AND BOLD COLORED IS NEW EQUIPMENT AND/OR WORK.

**DEMOLITION NOTES**

1. DISCONNECT AND REMOVE EXISTING HORIZONTAL UNIT HEATER IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO STEAM PIPING, VALVES, CONTROLS, ACCESSORIES, ETC.



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**FLOOR PLAN -  
DEMOLITION - HVAC**

**FLOOR PLAN - DEMOLITION - HVAC**

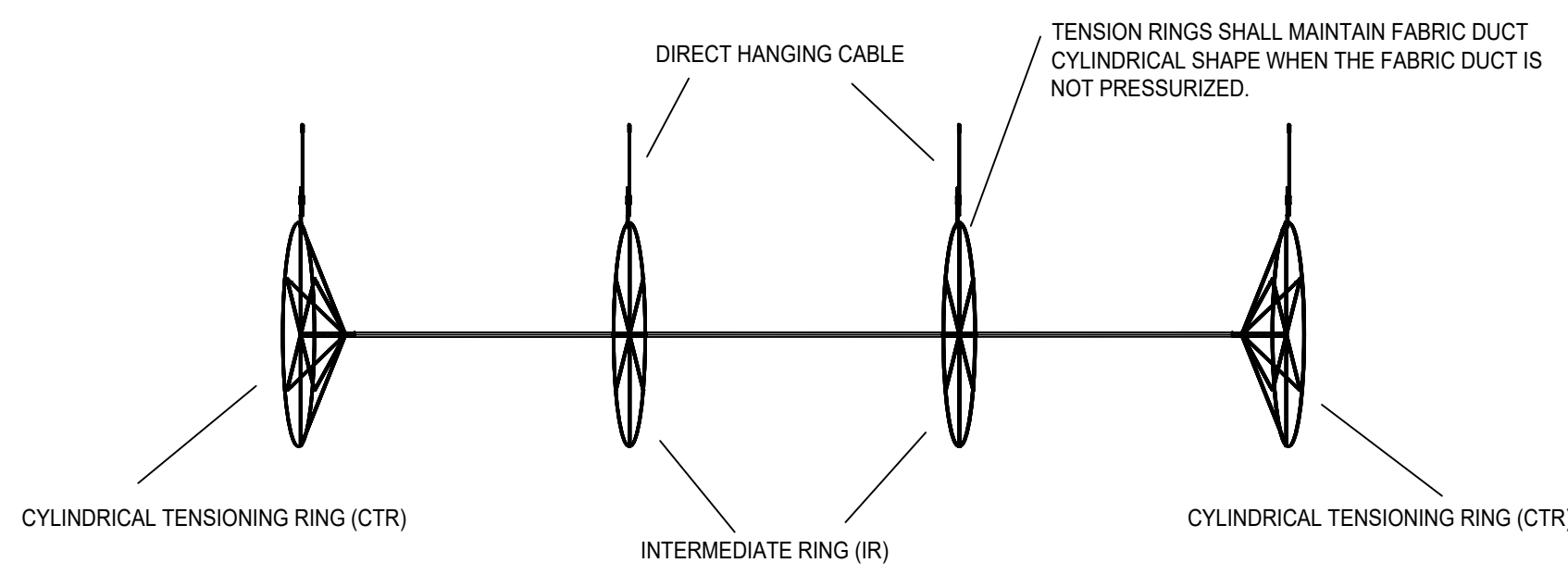
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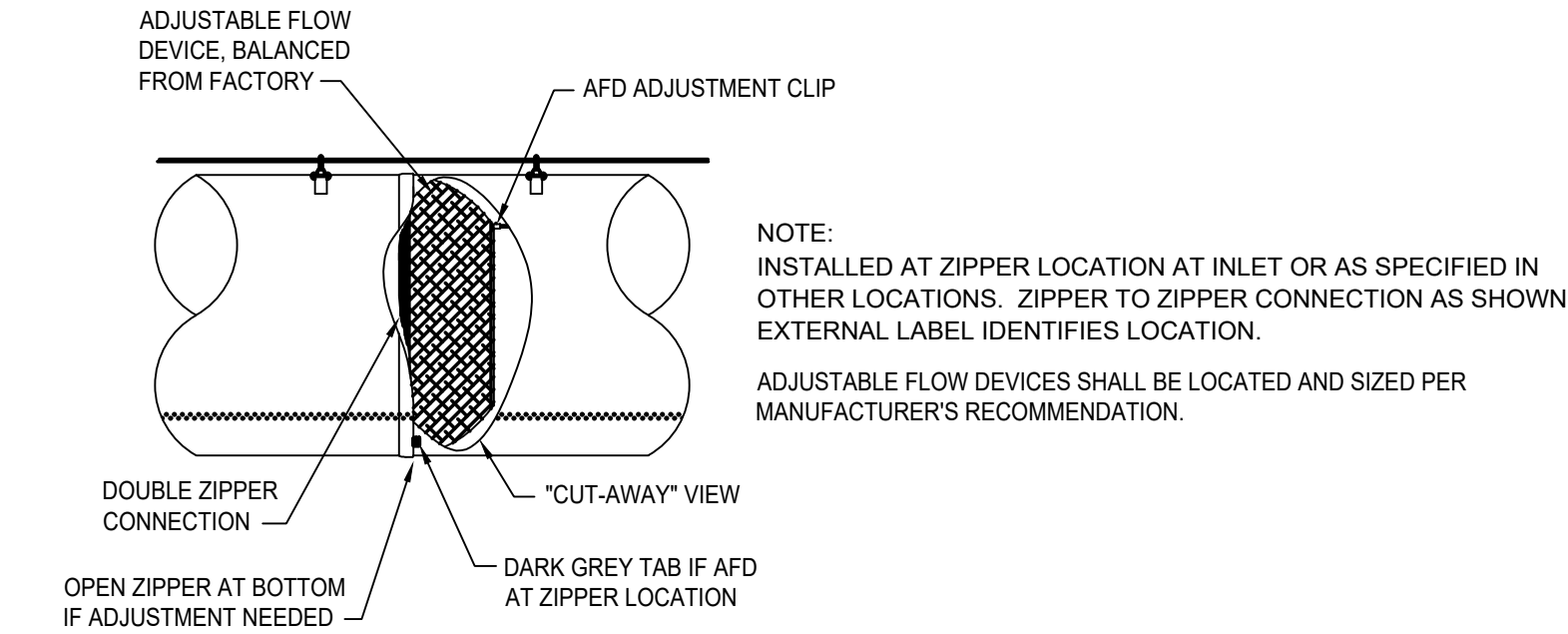
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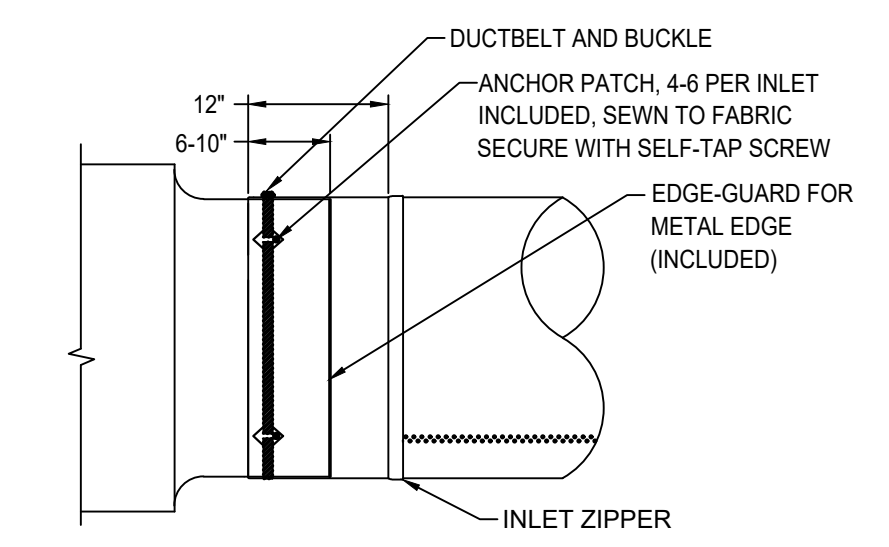




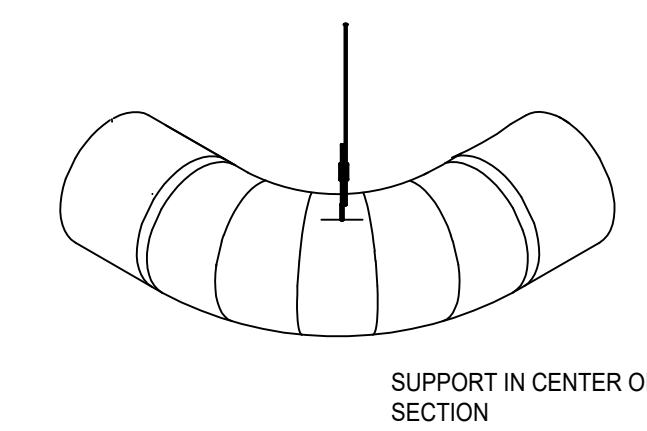
**TENSION RING SUSPENSION DETAIL (FABRIC DUCT SKELTON)**  
NO SCALE



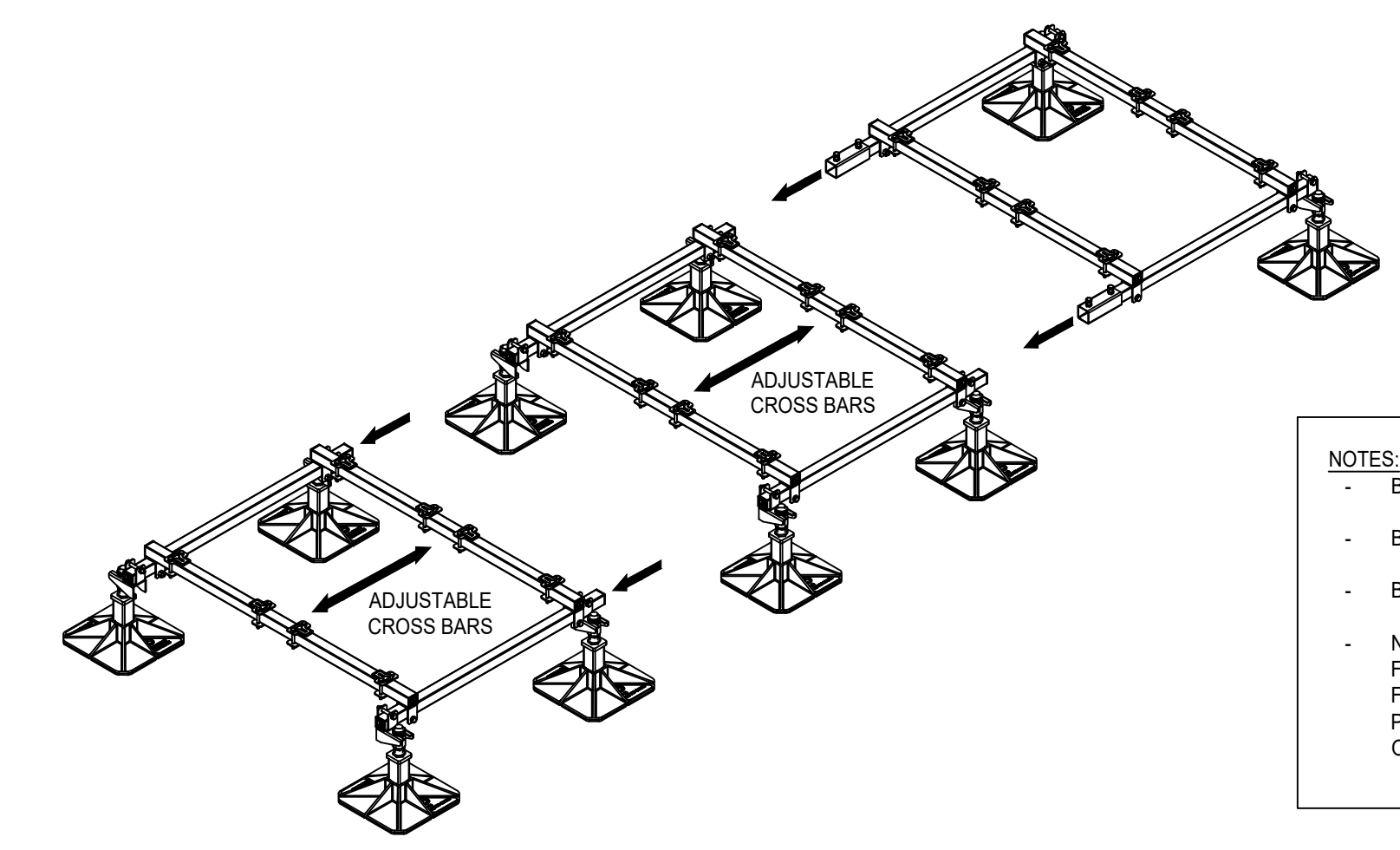
**ADJUSTABLE FLOW DEVICE (AFD) - FABRIC DUCT**  
NO SCALE



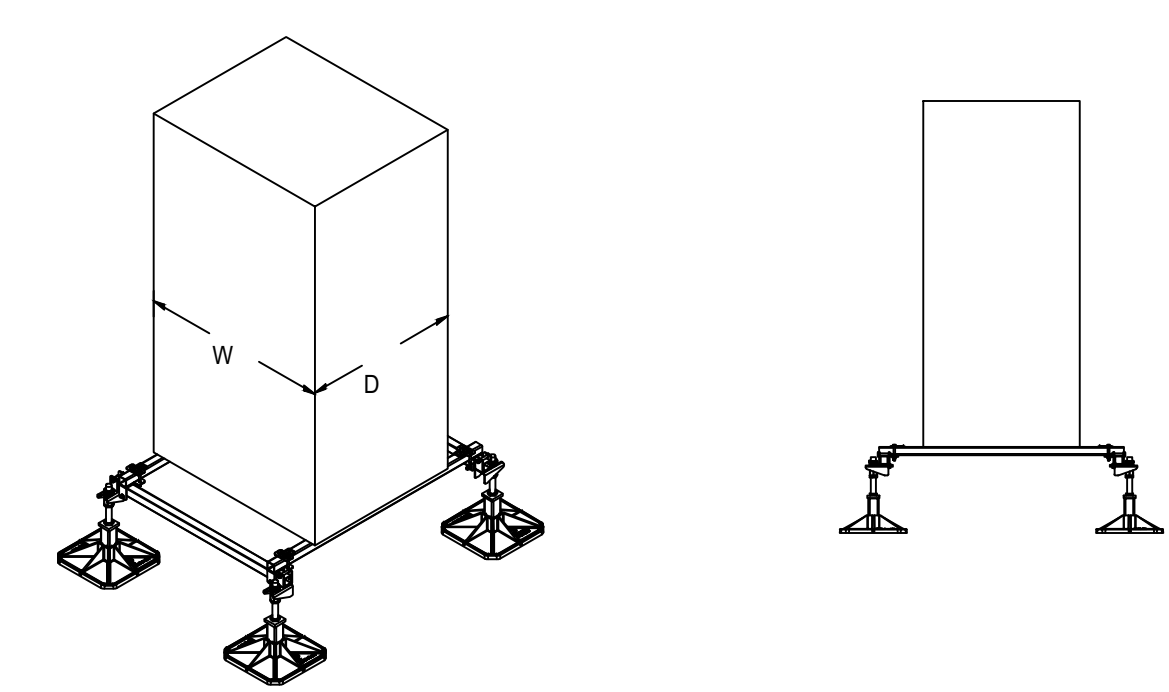
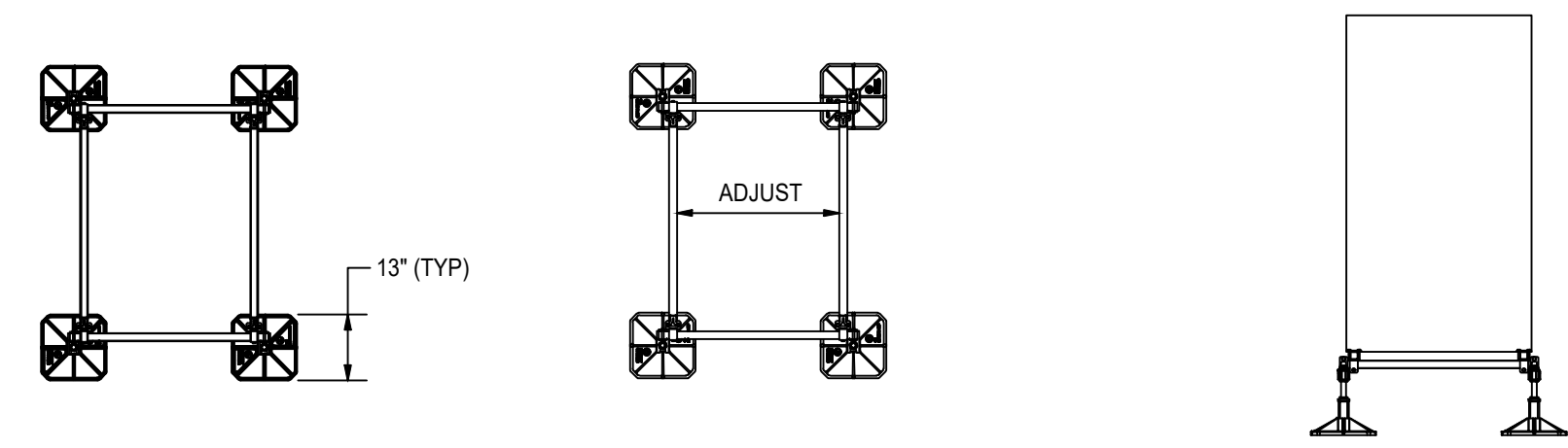
**FABRIC DUCT INLET ATTACHMENT DETAIL**  
NO SCALE



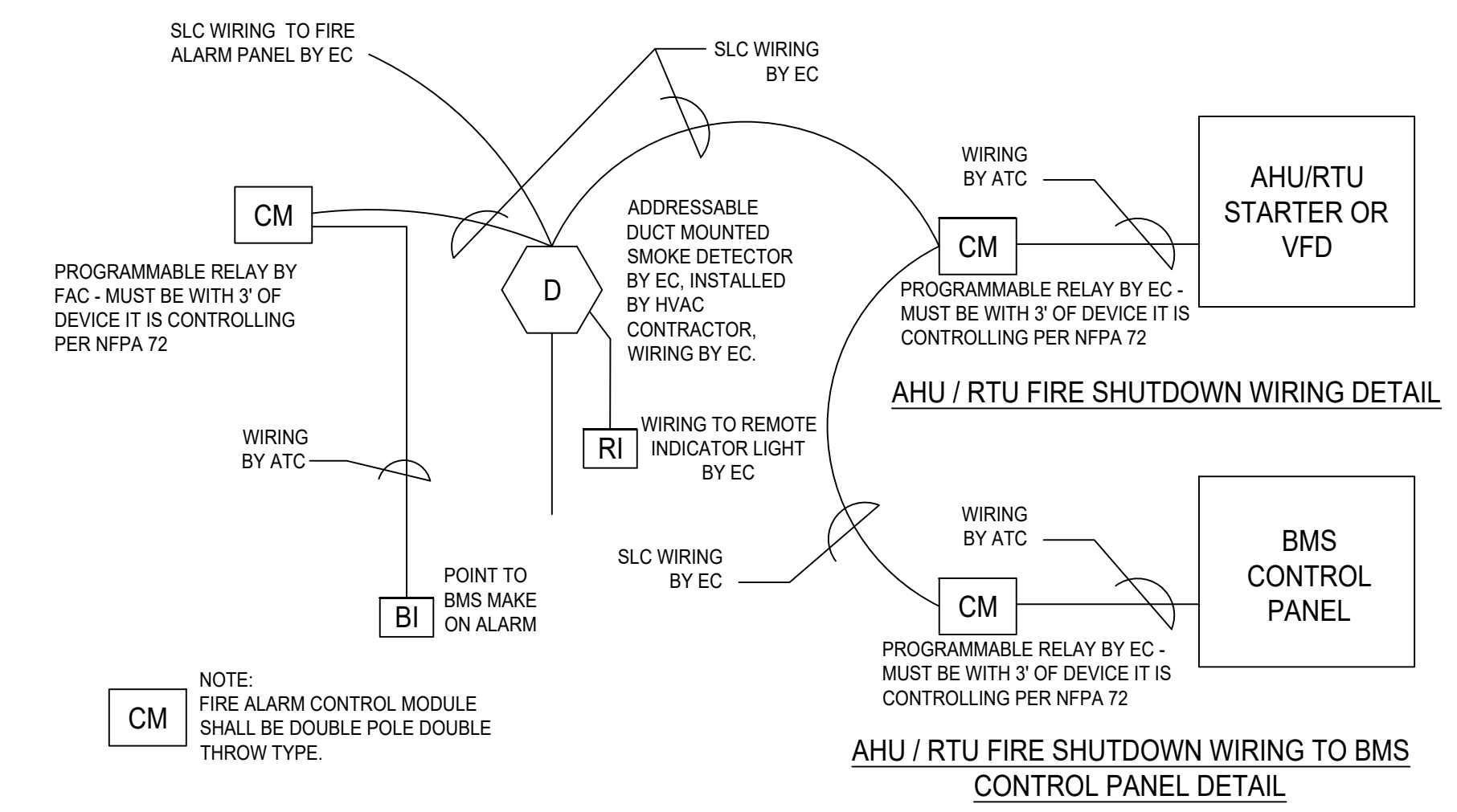
**RADIUS ELBOW WITH TENSION RING SUSPENSION FABRIC DUCT DETAIL**  
NO SCALE



- NOTES:
- BIGFOOT SUPPORT SYSTEMS SHALL BE PROVIDED FOR AHU-1 OR DAHU-1, RCU-1, & RCU-2.
  - BIGFOOT SUPPORT SYSTEMS SHALL BE PROVIDED BY THE UNIT MANUFACTURER.
  - BIGFOOT SUPPORT SYSTEMS SHALL BE PLACED ON NEW CONCRETE PADS.
  - NOTE THAT THIS IS A TYPICAL DETAIL AND DOES NOT REPRESENT THE EXACT AMOUNT OF FEET OR SUPPORT RAILS AS REQUIRED. UNIT MANUFACTURER SHALL BE RESPONSIBLE FOR DESIGNING AND PROVIDING THE EXACT SUPPORT SYSTEM AS REQUIRED FOR EACH PIECE OF EQUIPMENT. HC SHALL COORDINATE WITH THE UNIT MANUFACTURER PRIOR TO ORDERING.



**TYPICAL BIG FOOT SUPPORT SYSTEM DETAILS (AHU-1 OR DAHU-1, RCU-1, RCU-2)**  
NO SCALE



**DUCT SMOKE DETECTOR AT THE UNIT WITH DDC MONITORING**

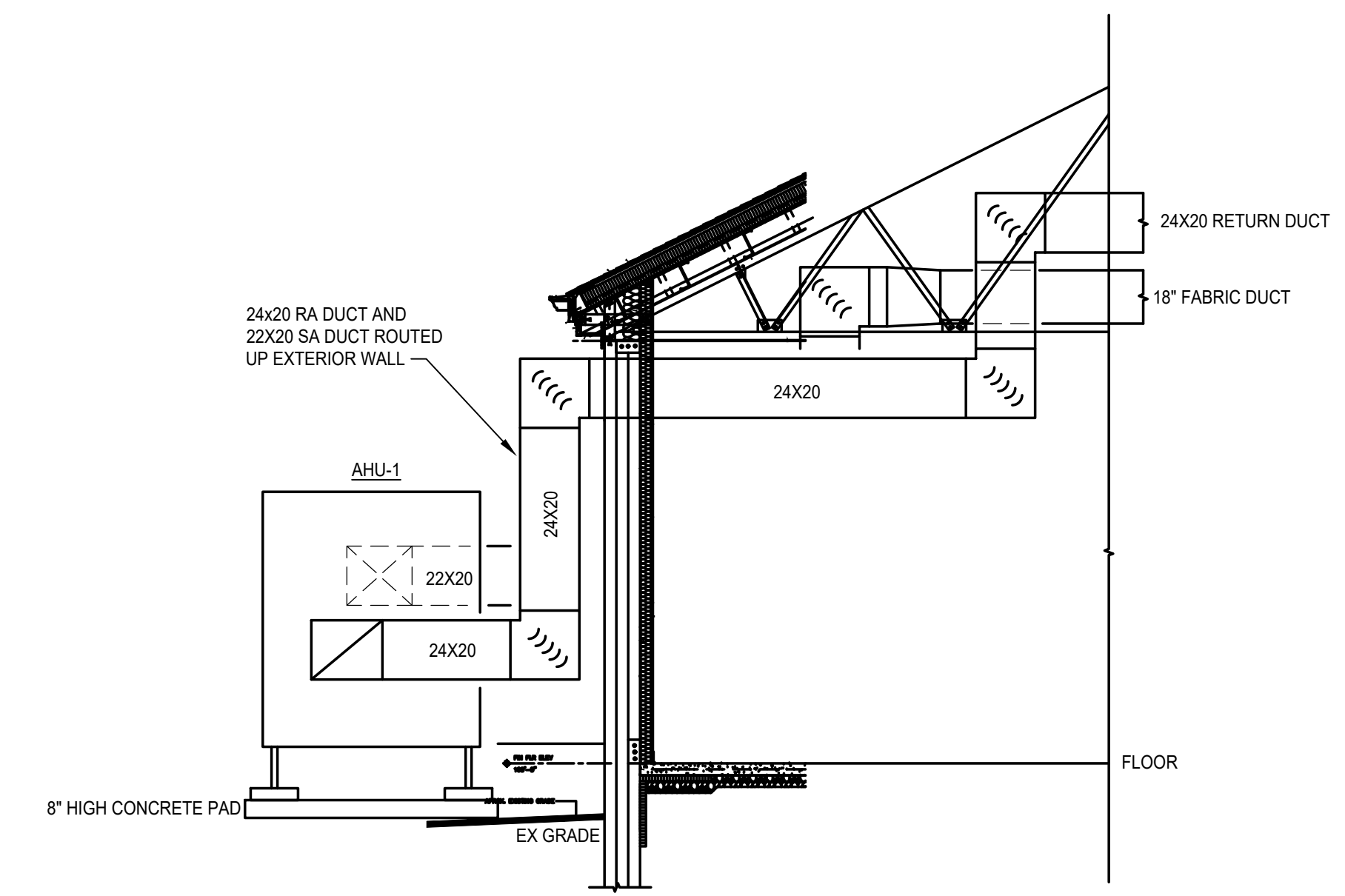
**LINTEL SCHEDULE**

FOR OPENINGS IN EXTERIOR AND INTERIOR NON-LOADBEARING MASONRY WALLS, PROVIDE ONE STEEL ANGLE FOR EACH 4" OF WALL THICKNESS IN MASONRY WALLS ACCORDING TO THE FOLLOWING SCHEDULE:

OPENING	SIZE	BEARING (EACH END)
OPENINGS UP TO 3'-0"	L 3 1/2x3 1/2x5/16	4"
3'-1" TO 6'-0"	L 6x3 1/2x3/8 (LLV)	8"

NOTES:

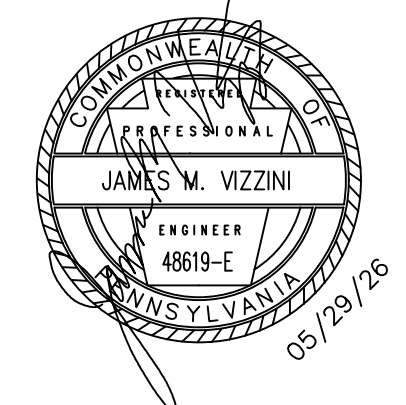
1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINTELS SHOWN AND NOT SHOWN FOR OPENINGS REQUIRED FOR NEW DUCTWORK. THE CONTRACTOR SHALL PROVIDE FOR AN ALLOWANCE OF THE INSTALLATION OF AN ADDITIONAL 100% OF INSTALLED LINTELS FOR CONDITIONS NOT SHOWN.
2. ALL OPENINGS 12" AND GREATER REQUIRE LINTELS. OPENINGS SHALL BE NO LARGER THAN WHAT IS REQUIRED FOR THE PASSAGE OF THE NEW DUCT.
3. ALL LINTELS SHALL BE INSTALLED BACK TO BACK SO THAT THE VERTICAL LEG OF ALL LINTELS IS PROTECTED WITHIN THE WALL.
4. LINTELS CONSISTING OF MORE THAN ONE STEEL ANGLE SHALL HAVE THE ANGLES WELDED TO EACH OTHER AT 12" OC MAX TOP AND BOTTOM.
5. NOTIFY THE ENGINEER IF THE SPAN OF ANY LINTEL IS GREATER THAN 6'-4".
6. FIRE RATINGS FOR WALLS MUST BE MAINTAINED AT OPENINGS/LINTELS LOCATED IN RATED WALLS.
7. SHORING OF THE ROOF STRUCTURE MAY BE REQUIRED DURING LINTEL INSTALLATION. ALL TEMPORARY SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.



**SECTION A - HVAC**  
SCALE: 1/4" = 1'-0"



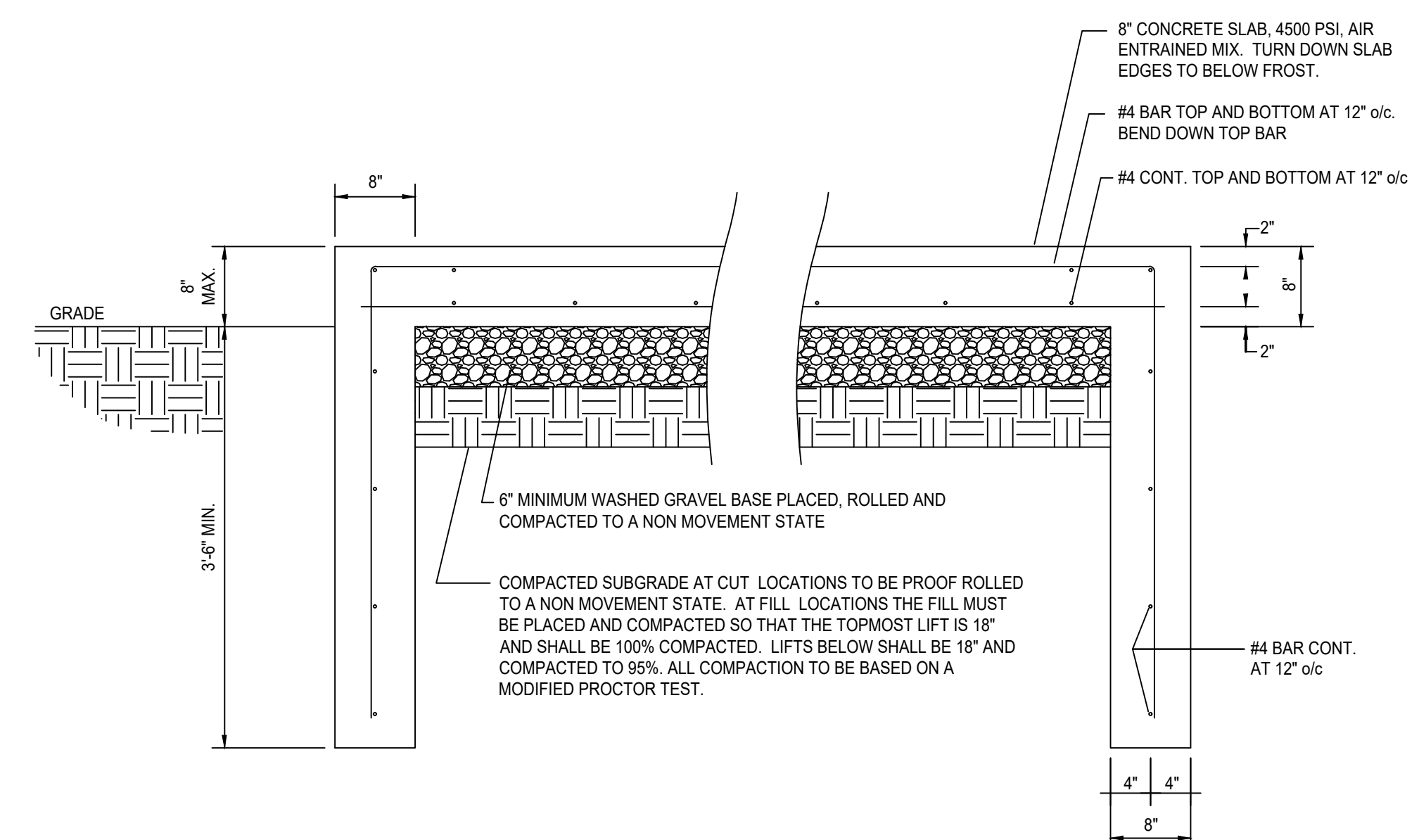
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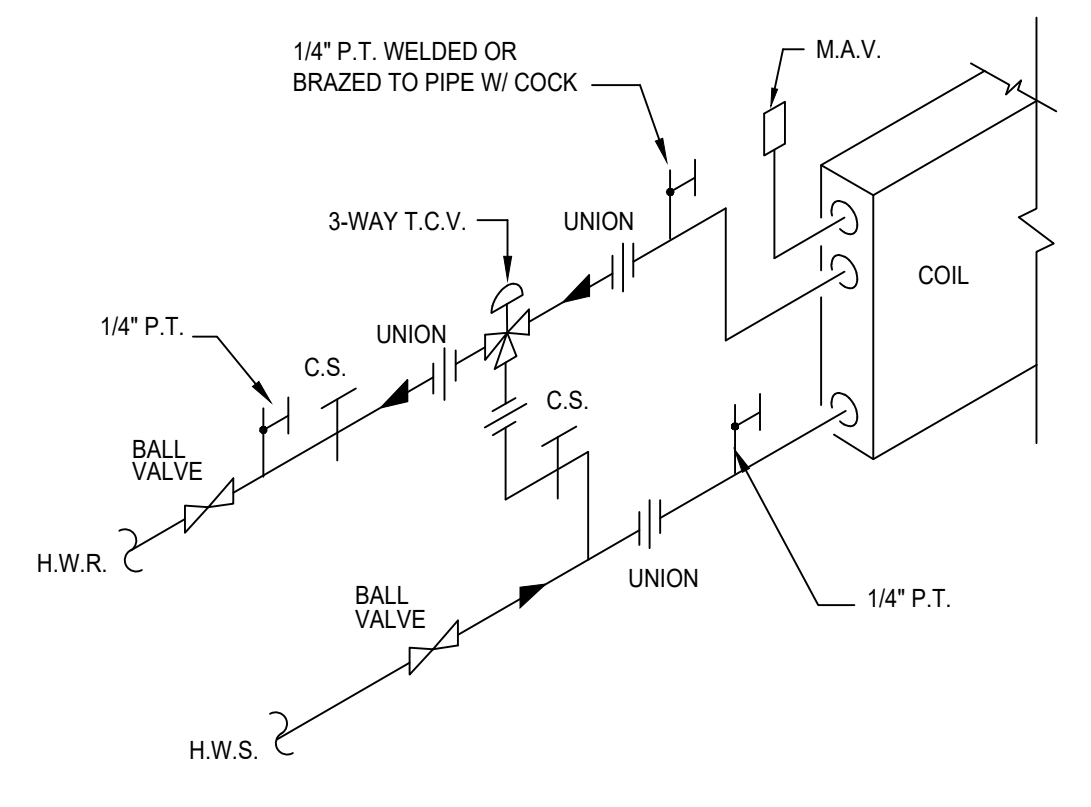
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FOR THE  
MERCER COUNTY COMMISSIONERS  
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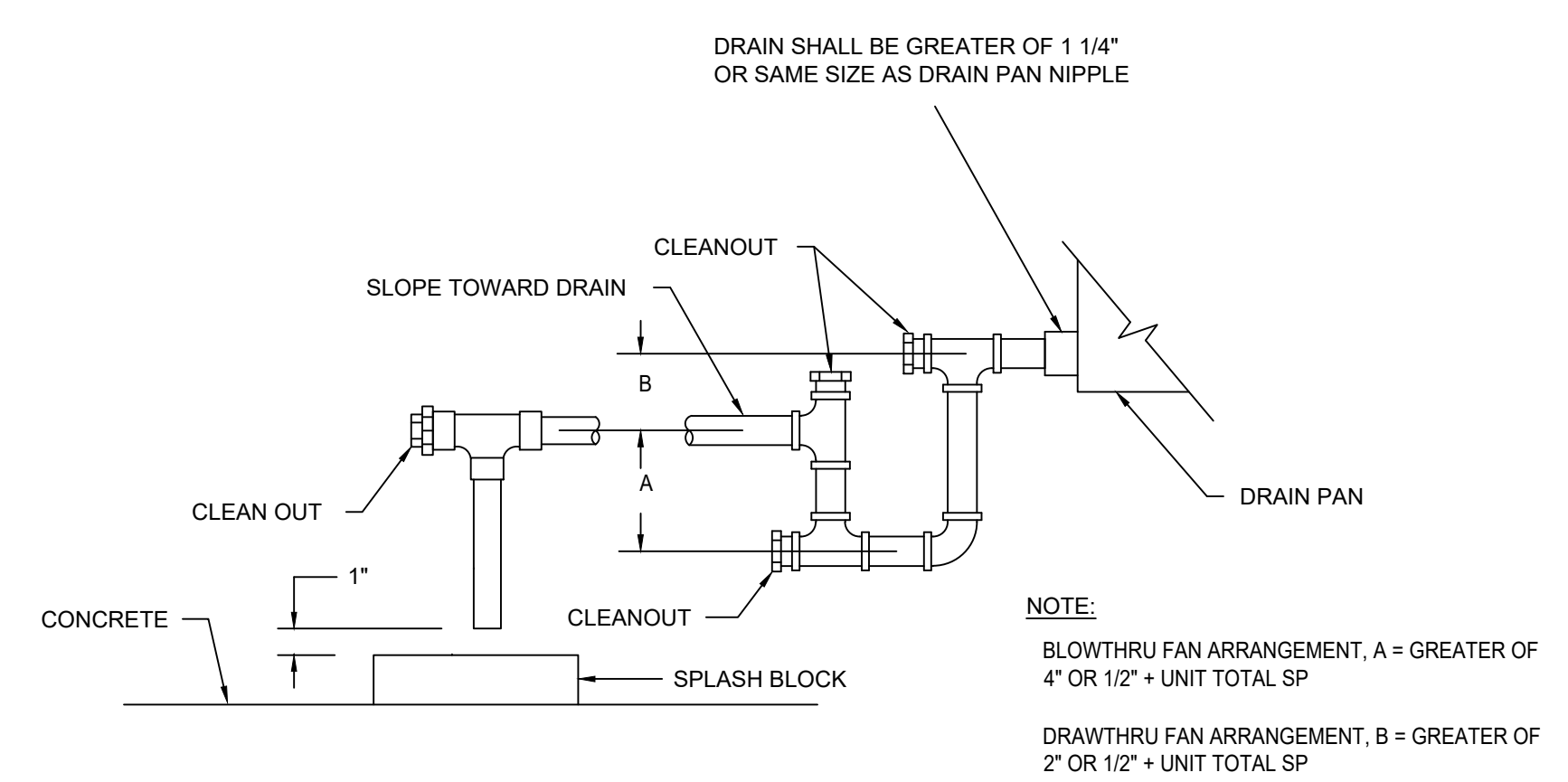
**DETAILS - HVAC**



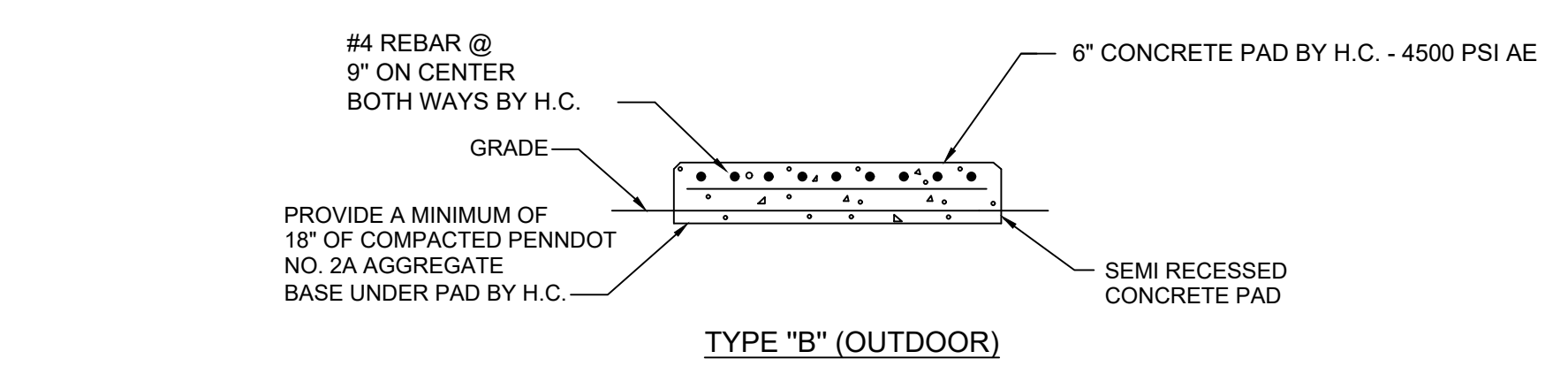
**CONCRETE SLAB DETAIL FOR AHU**  
NO SCALE



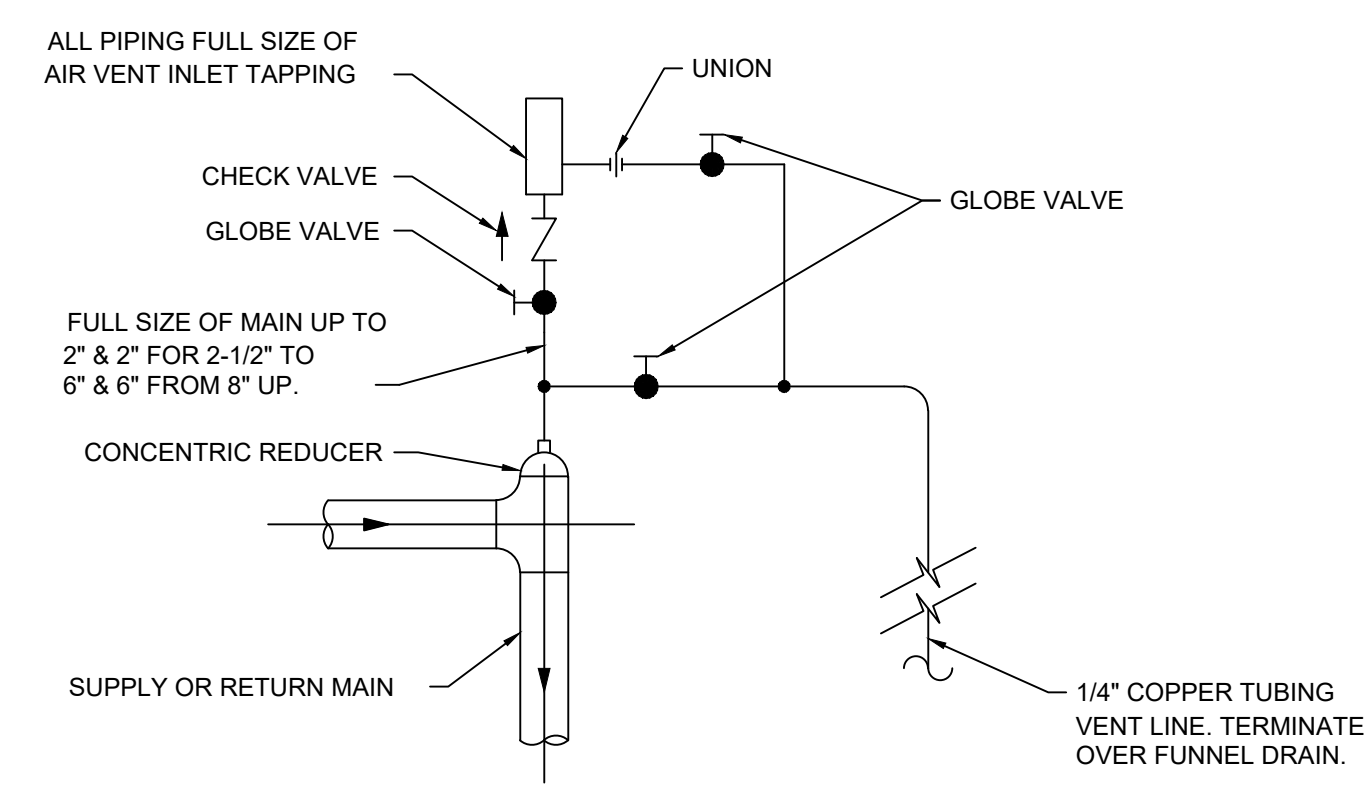
**BLOWER COIL HW COIL PIPING DETAIL (3-WAY VALVE)**  
NO SCALE



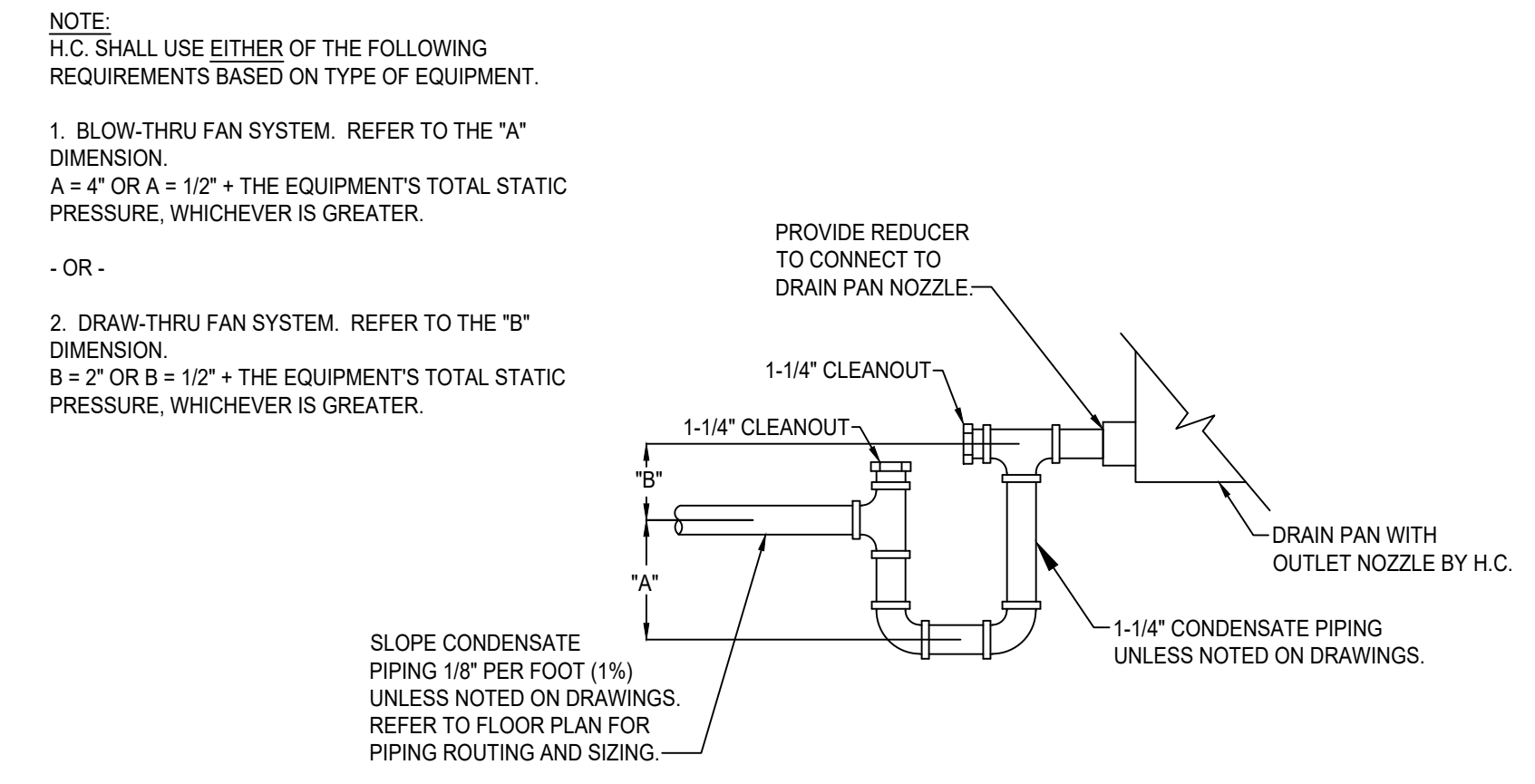
**AIR HANDLING UNIT CONDENSATE DRAIN TRAP DETAIL**  
NO SCALE



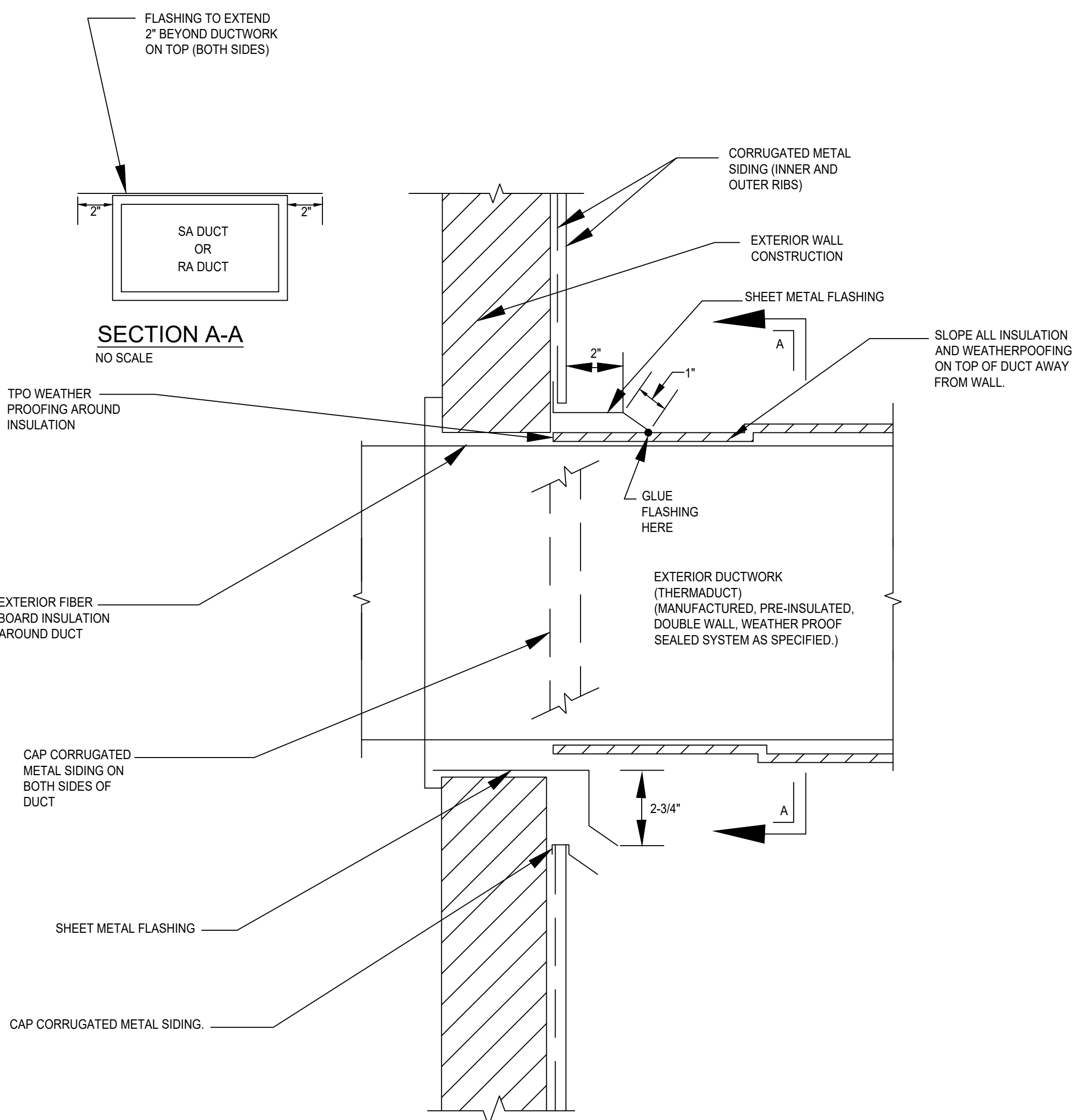
**CONCRETE PAD (FOR RCU'S AND DUCT SUPPORTS)**  
NO SCALE



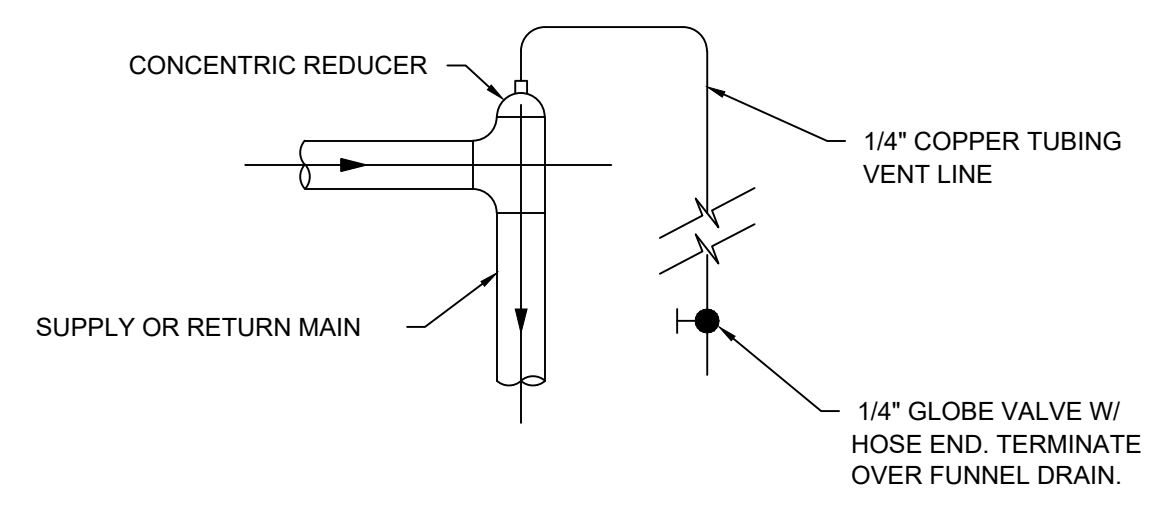
**AUTOMATIC AIR VENT**  
NO SCALE



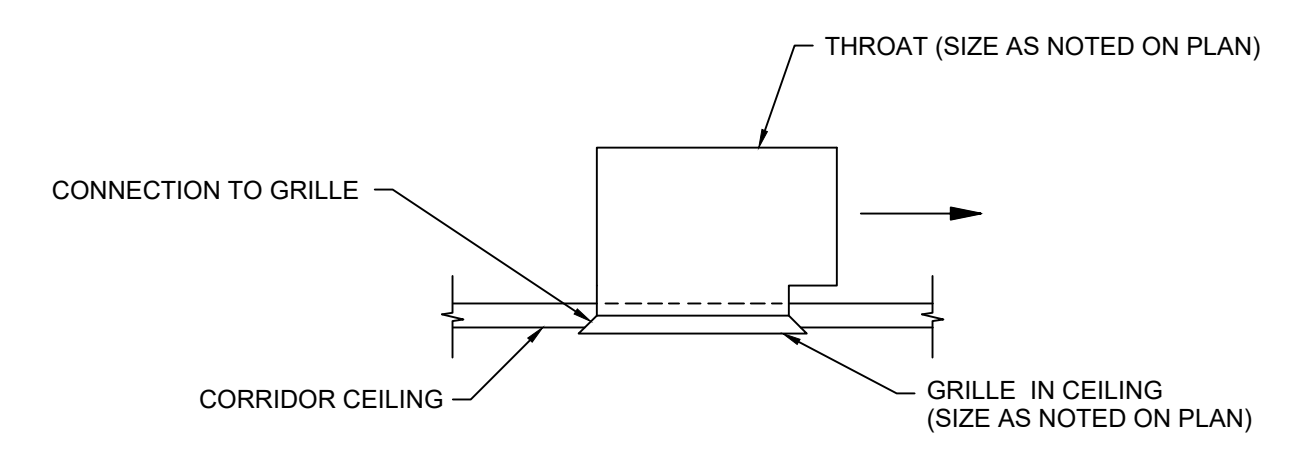
**CONDENSATE DRAIN TRAP DETAIL**  
NO SCALE



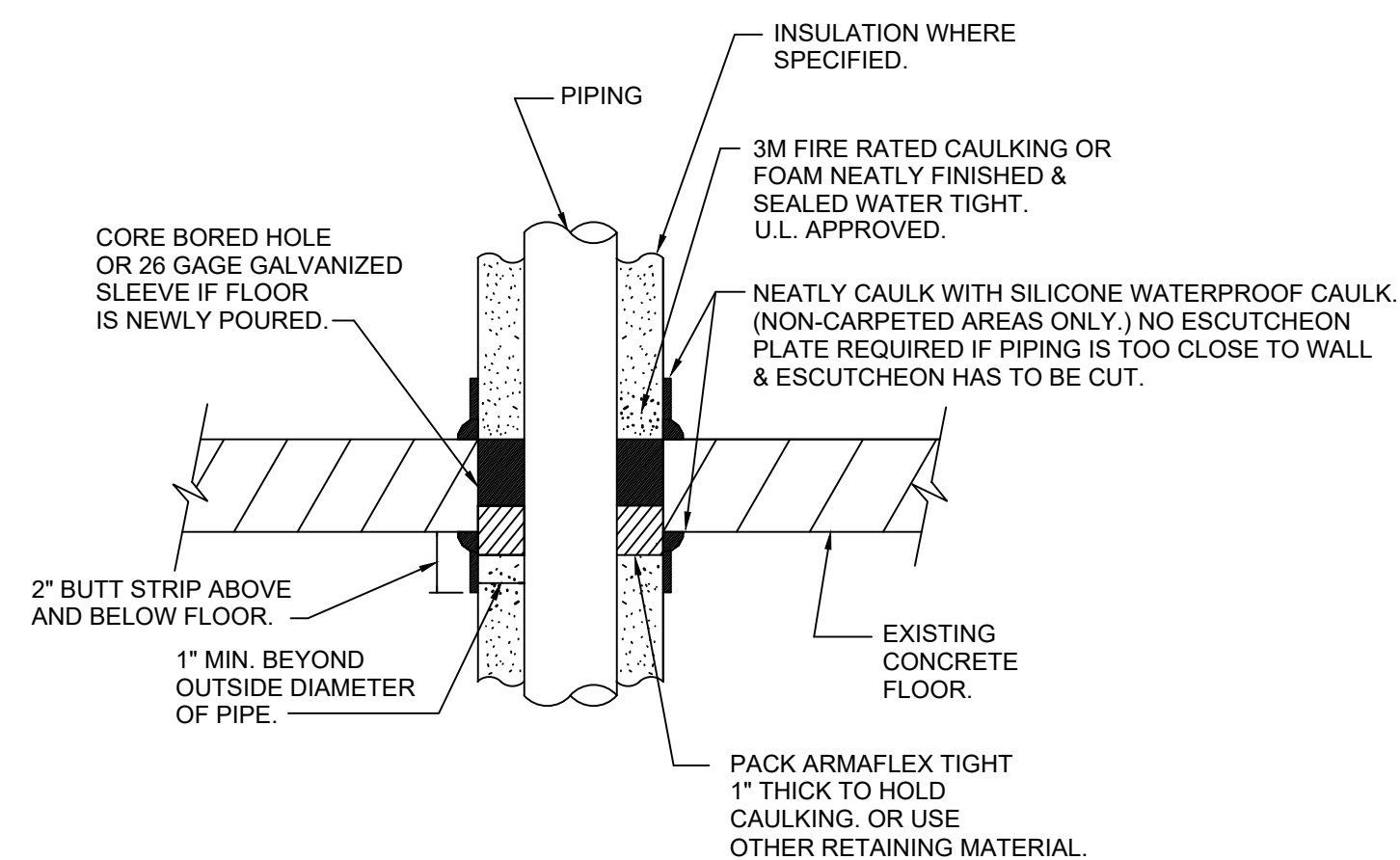
**DUCT PENETRATION THRU EXTERIOR WALL DETAIL**  
NO SCALE



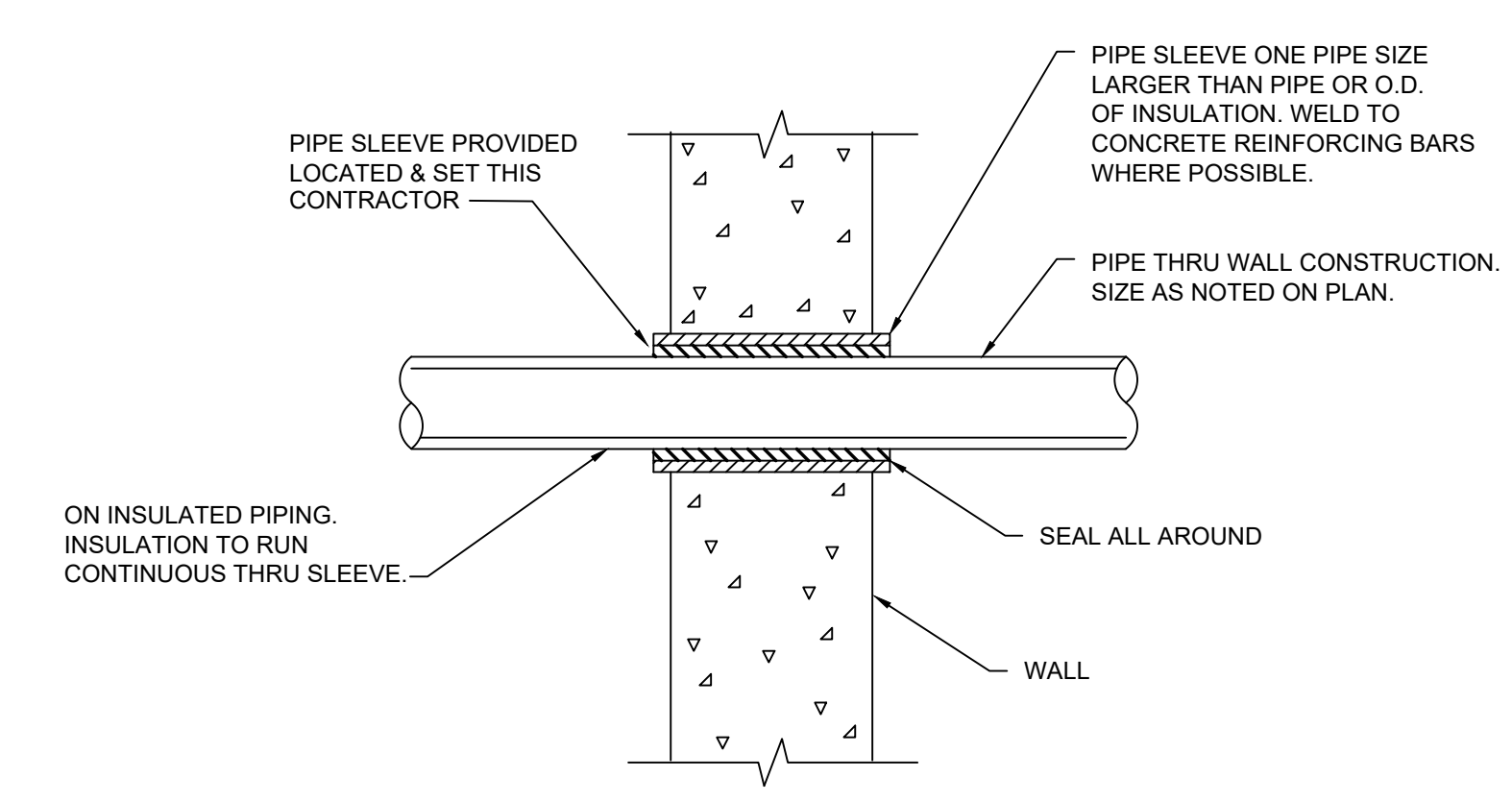
**MANUAL AIR VENT**  
NO SCALE



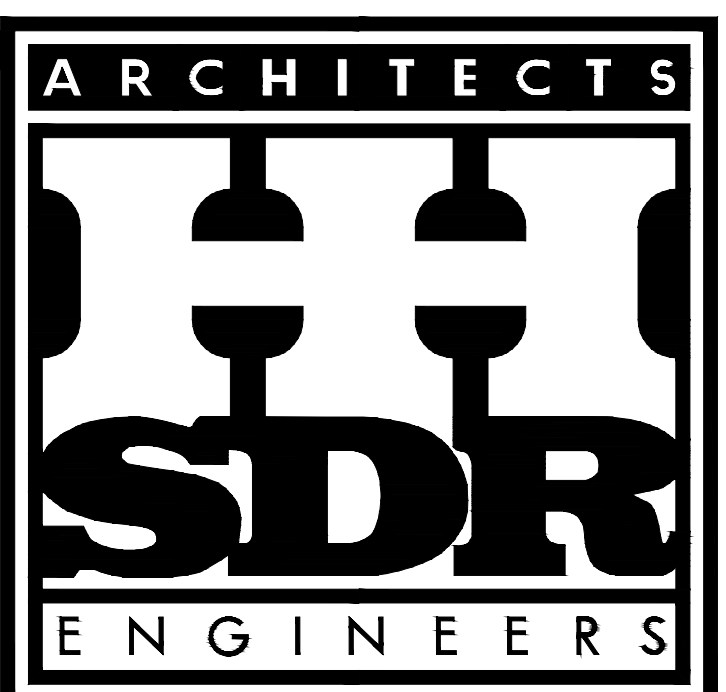
**RETURN / RELIEF GRILLE & DAMPER BOX DETAIL**  
NO SCALE



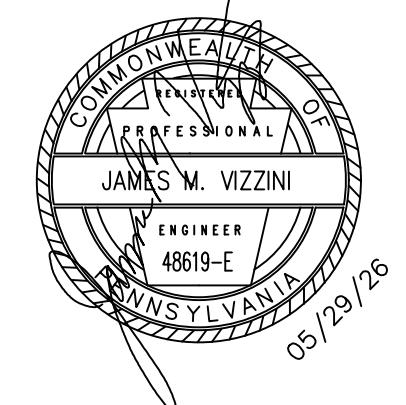
**PIPING THROUGH CONCRETE FLOOR (NO SLEEVE)**  
NO SCALE



**WALL SLEEVE DETAIL**  
NO SCALE



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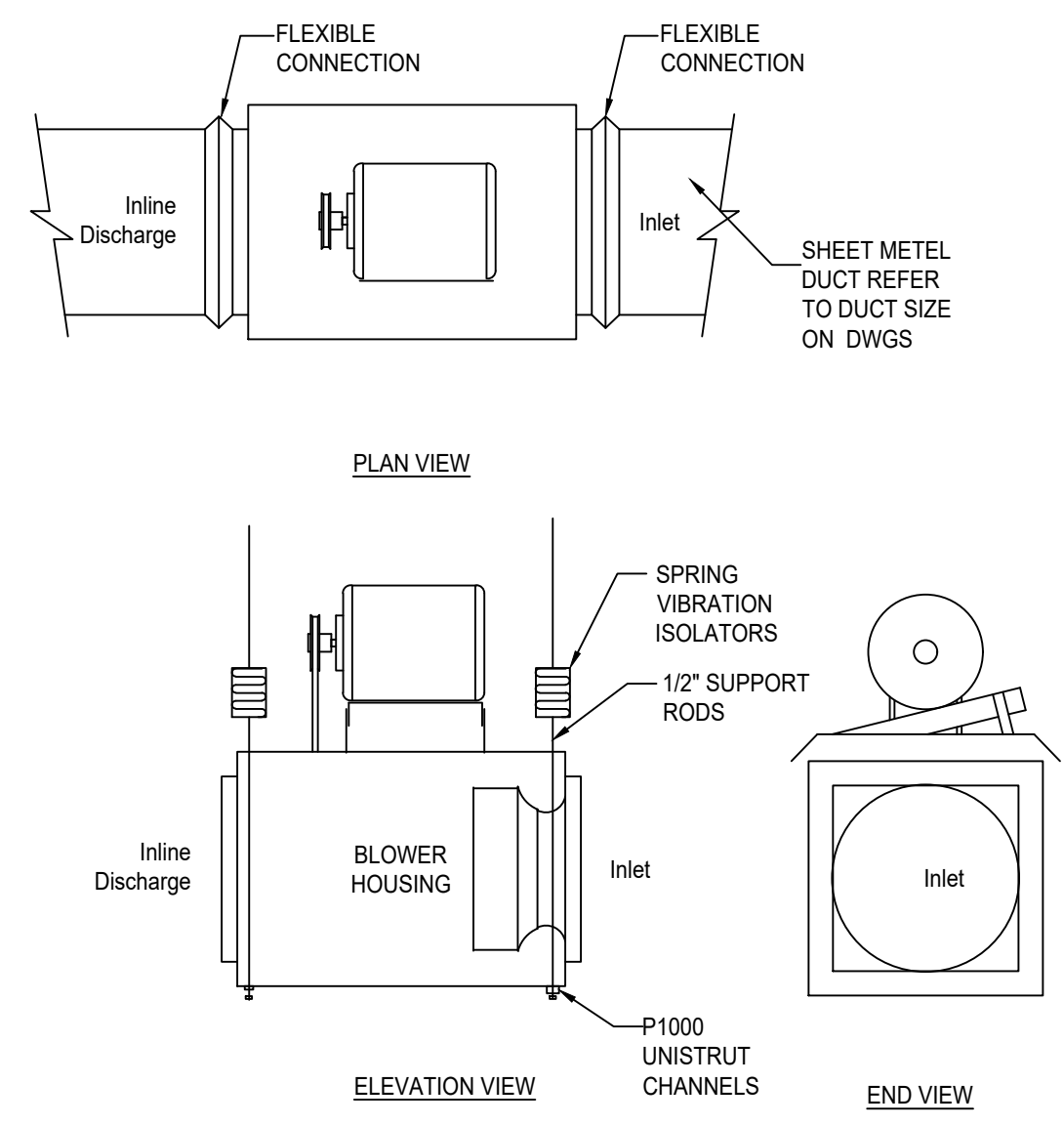


MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM  
 41 MUNNELL RUN LANE  
 MERCER, PA 16137  
 FOR THE  
 MERCER COUNTY COMMISSIONERS  
 125 SOUTH DIAMOND STREET  
 MERCER, PA 16137

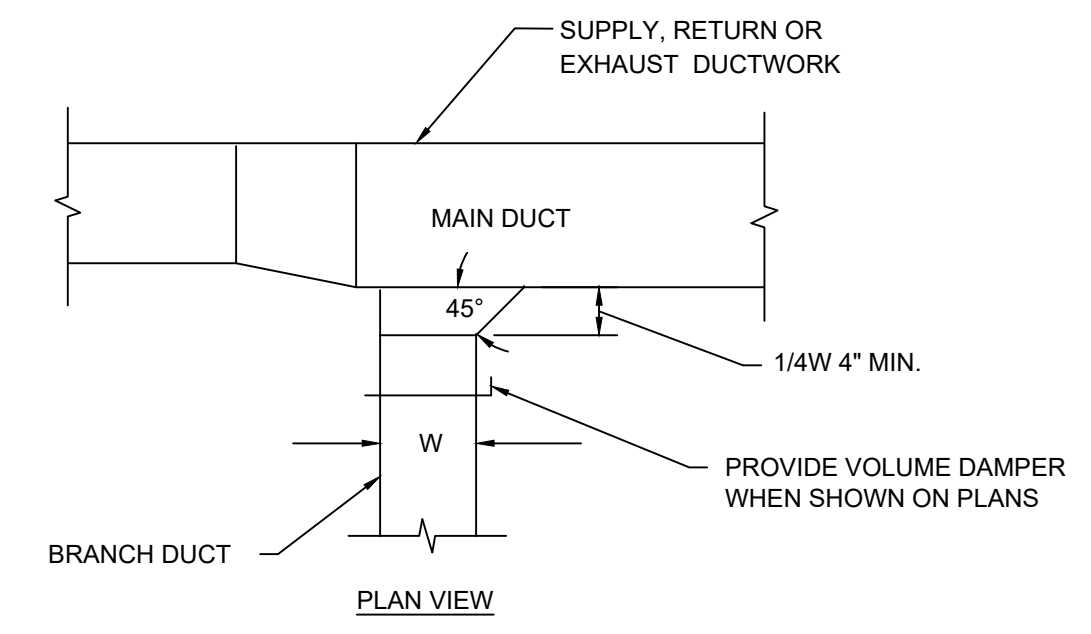
**DETAILS - HVAC**

REVISIONS
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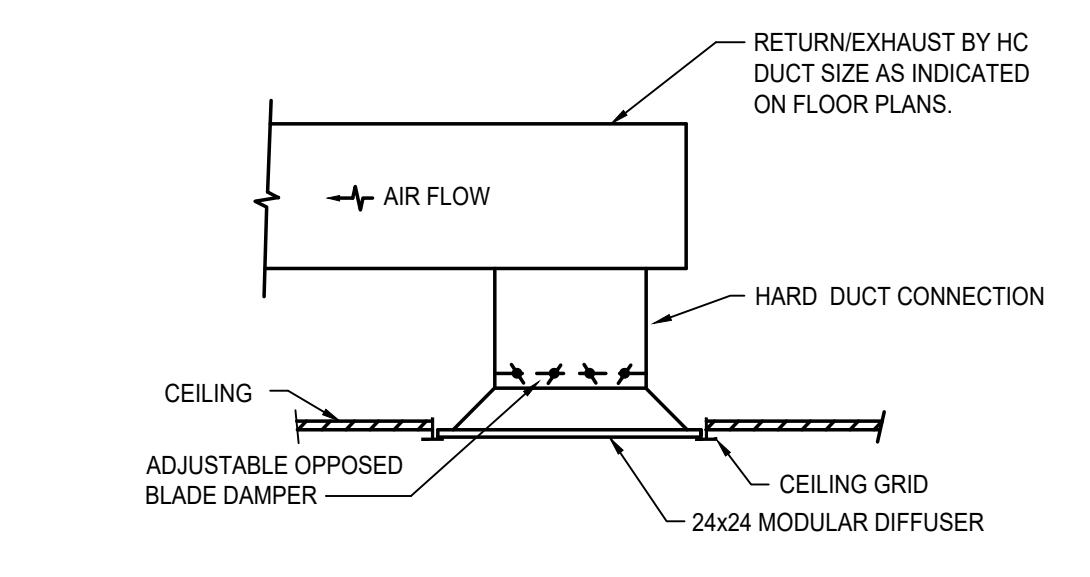
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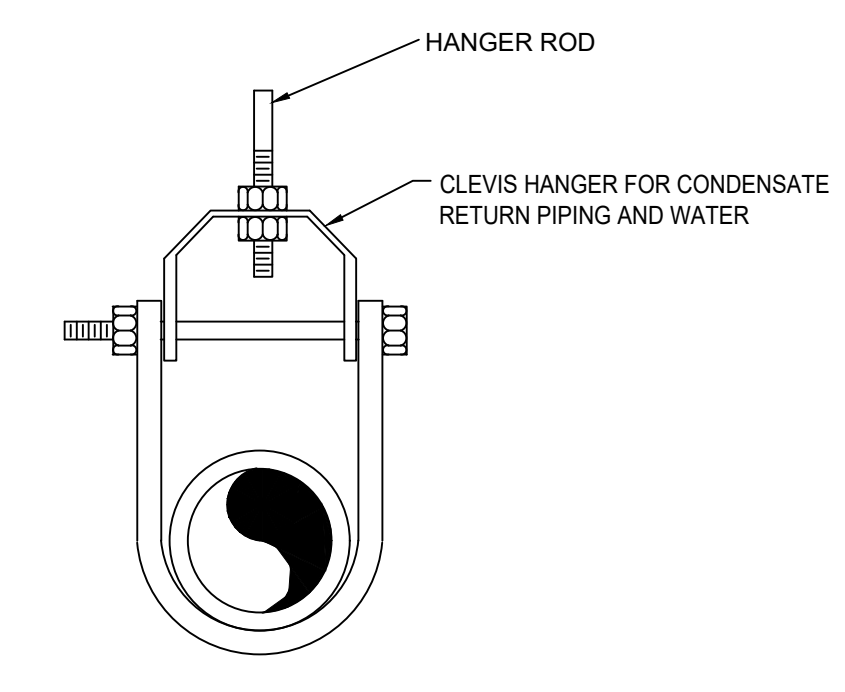
**TYPICAL INLINE EXHAUST FAN**  
NO SCALE



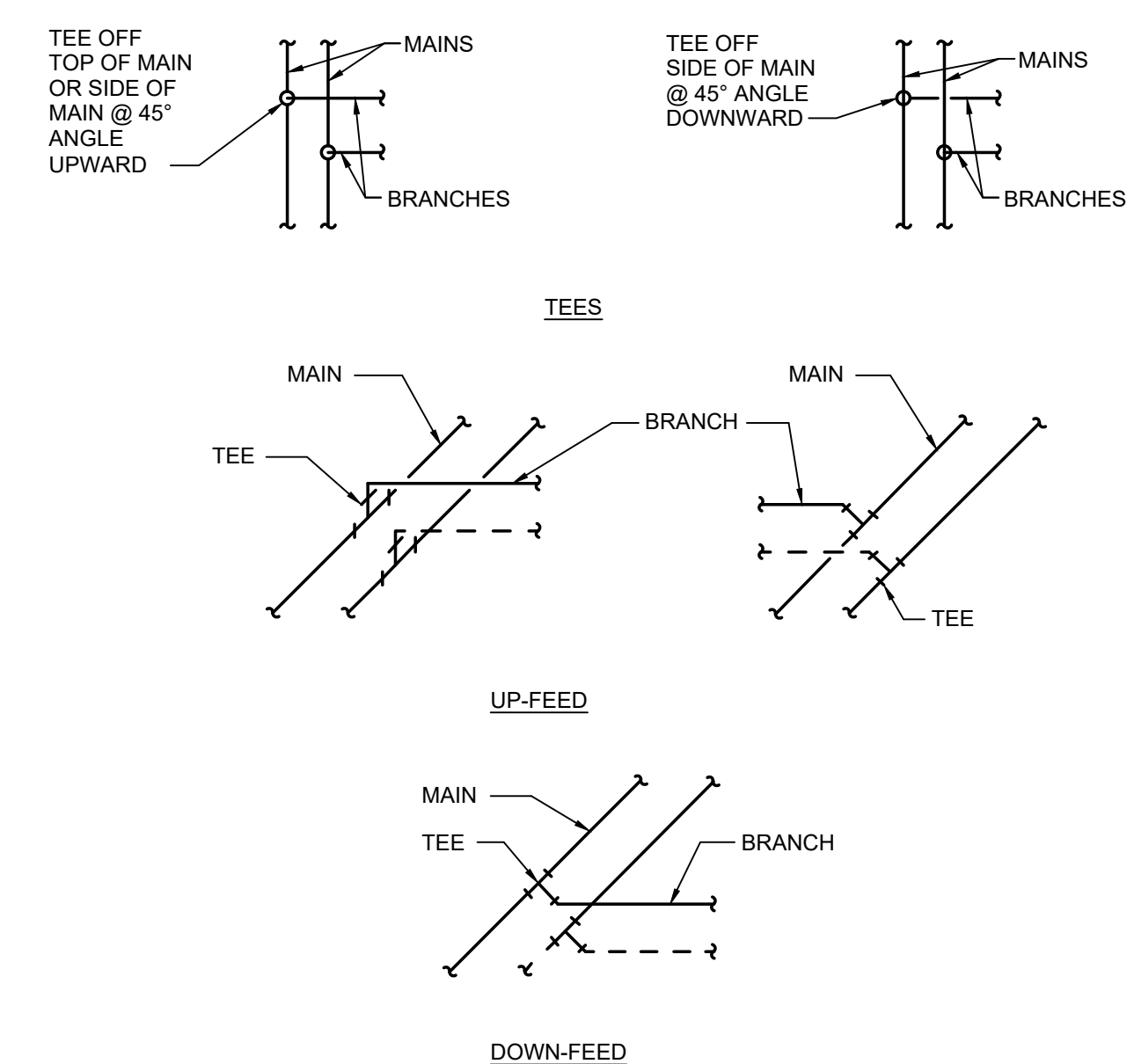
**BRANCH DUCT CONNECTION DETAIL**  
NO SCALE



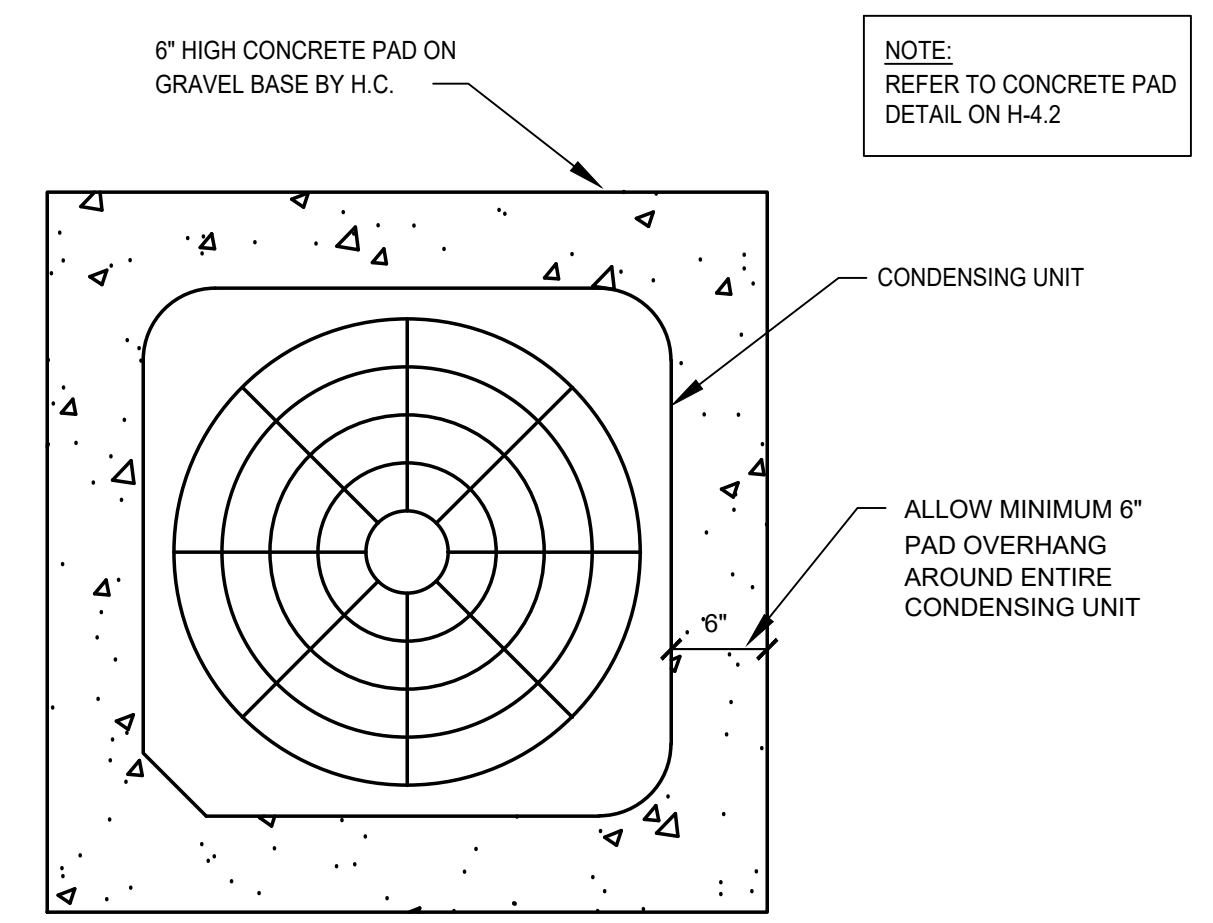
**EXHAUST GRILLE TYPICAL CONNECTION**  
NO SCALE



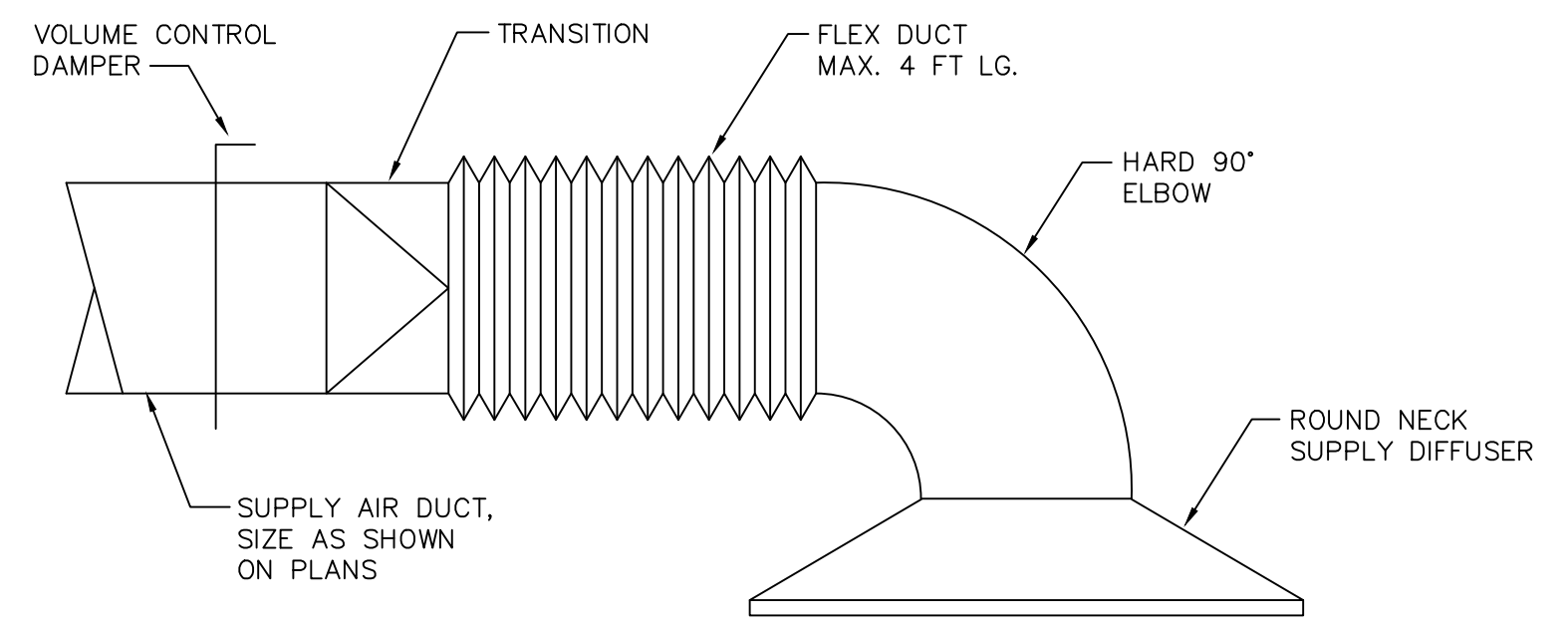
**ADJUSTABLE CLEVIS HANGER**  
**TYPICAL PIPE HANGERS**  
NO SCALE



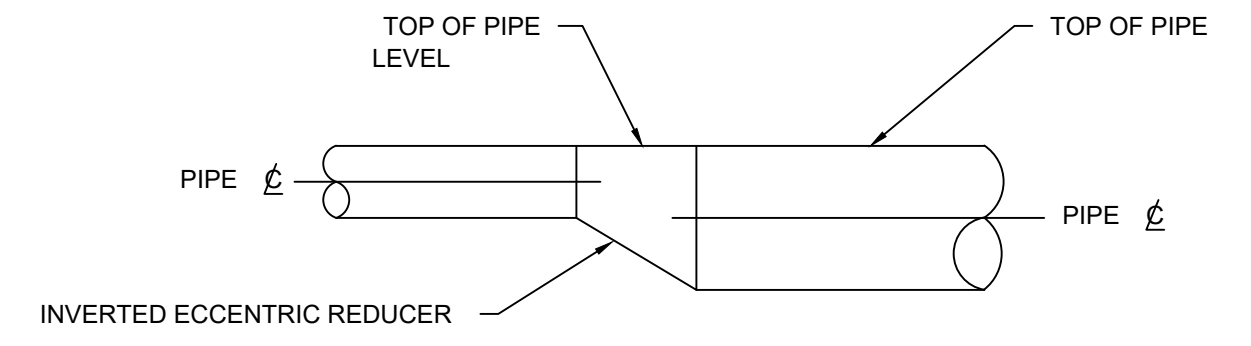
**BRANCH PIPING RUNOUT DIAGRAM (HOT WATER)**  
NO SCALE



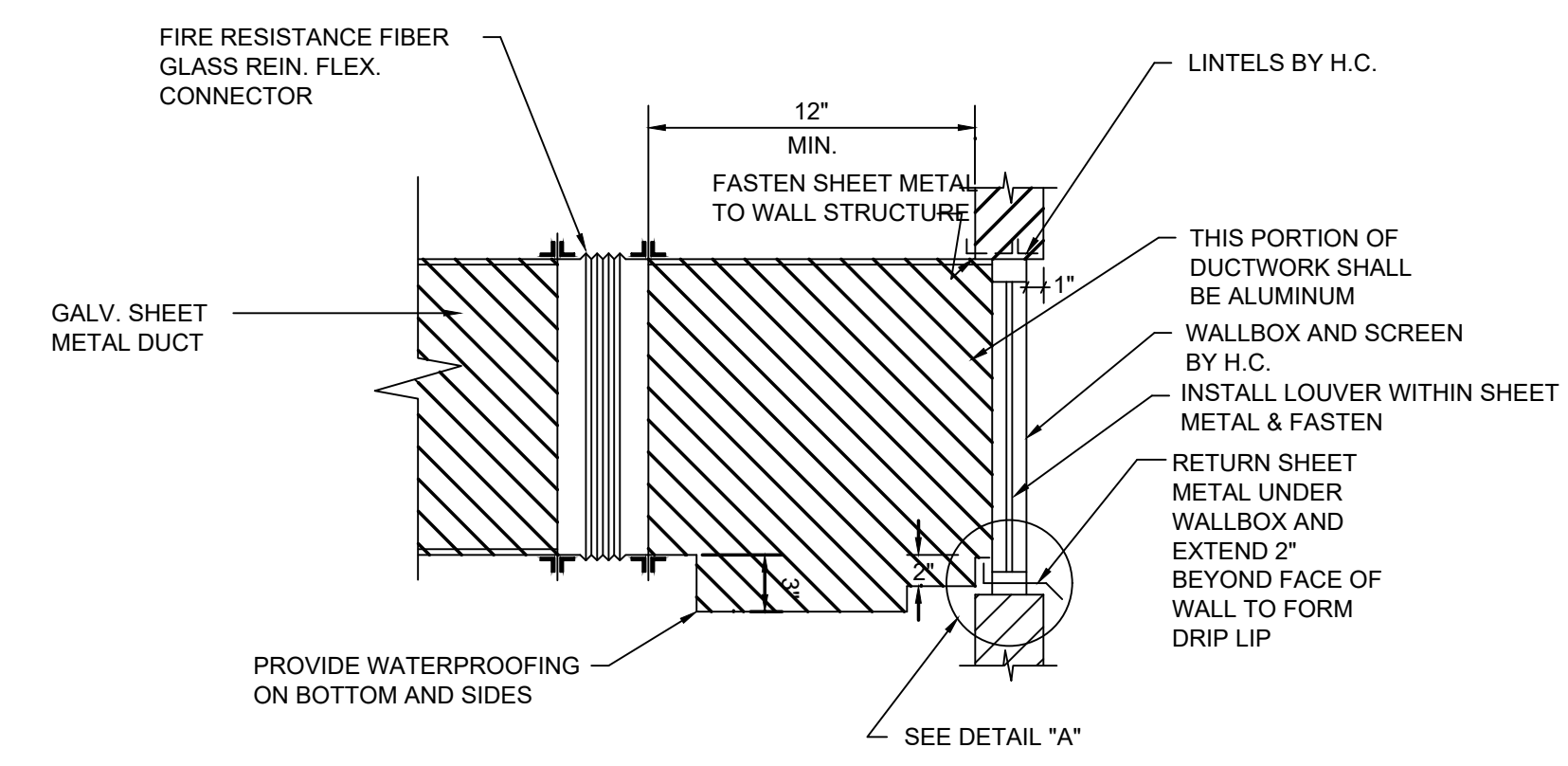
**REMOTE CONDENSING UNIT MOUNTING PAD DETAIL**  
NO SCALE



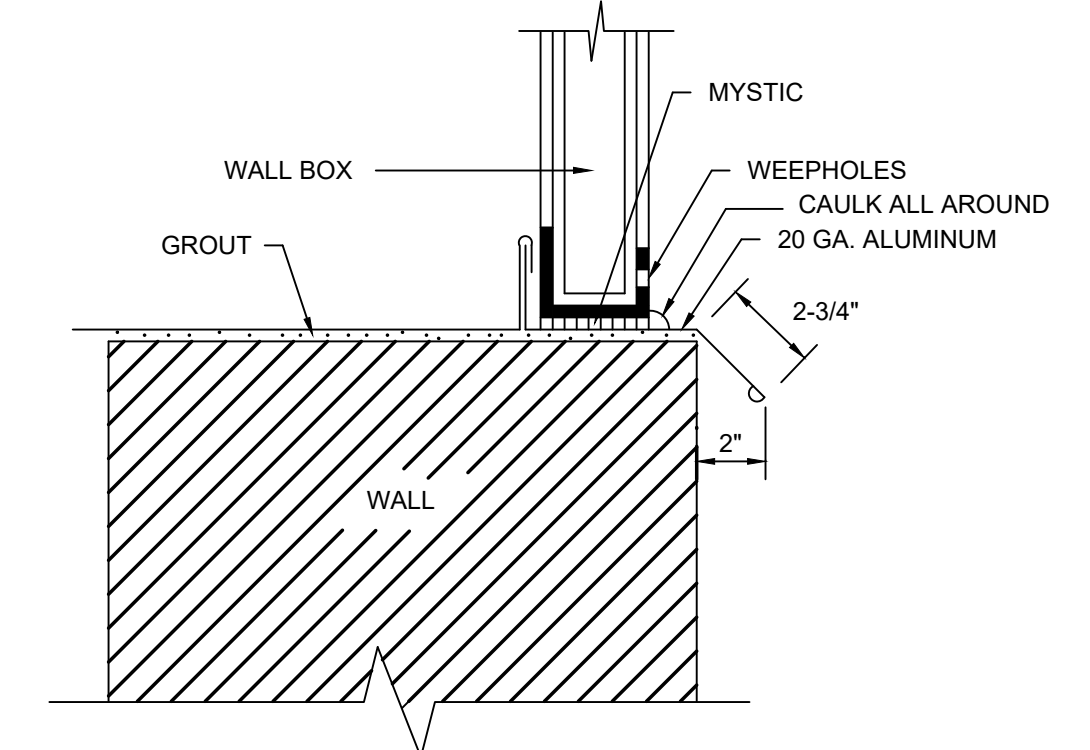
**ROUND NECK SUPPLY DIFFUSER DETAIL**  
NO SCALE



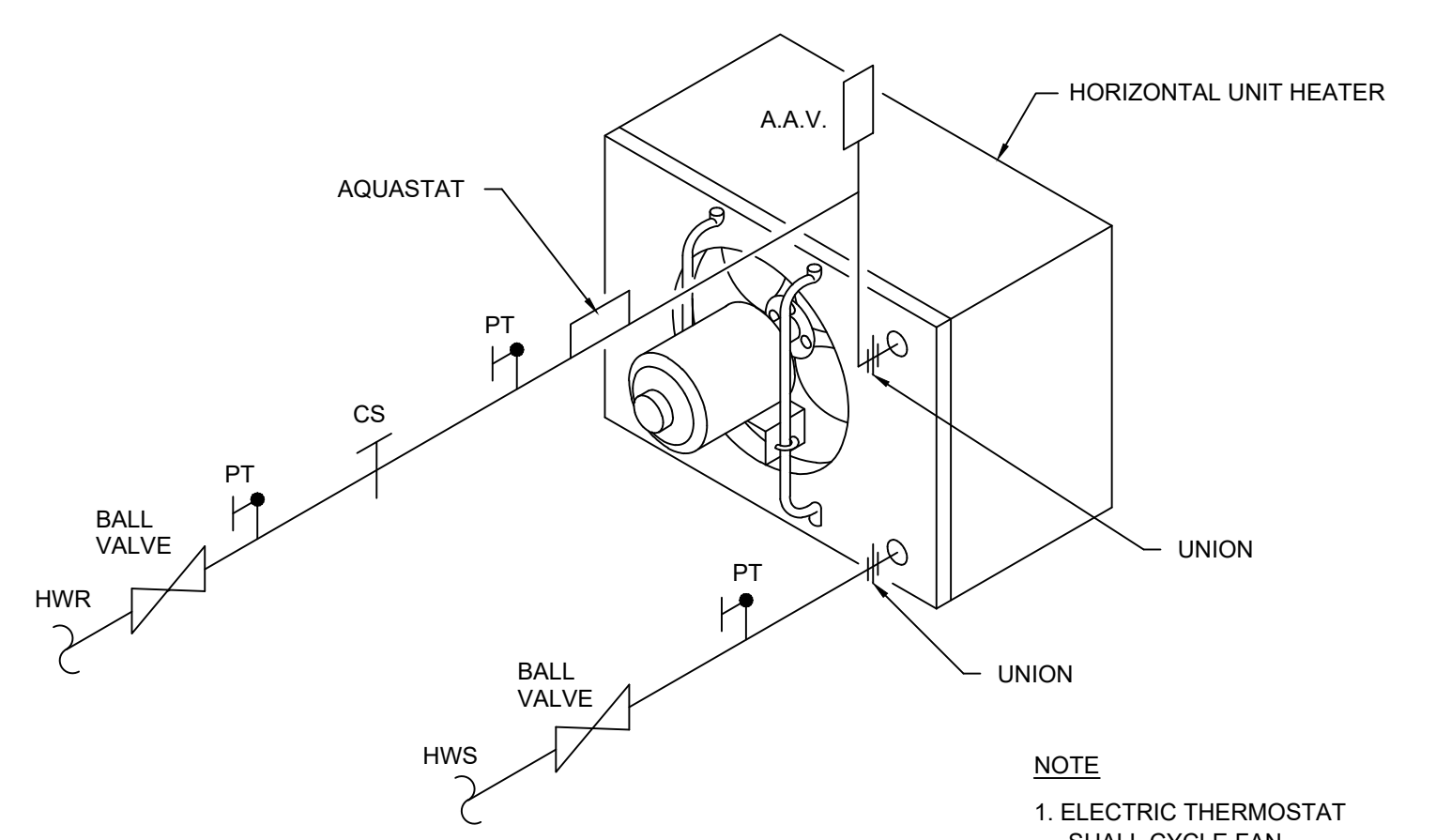
**TYPICAL PIPE SIZE CHANGE FOR WATER**  
NO SCALE



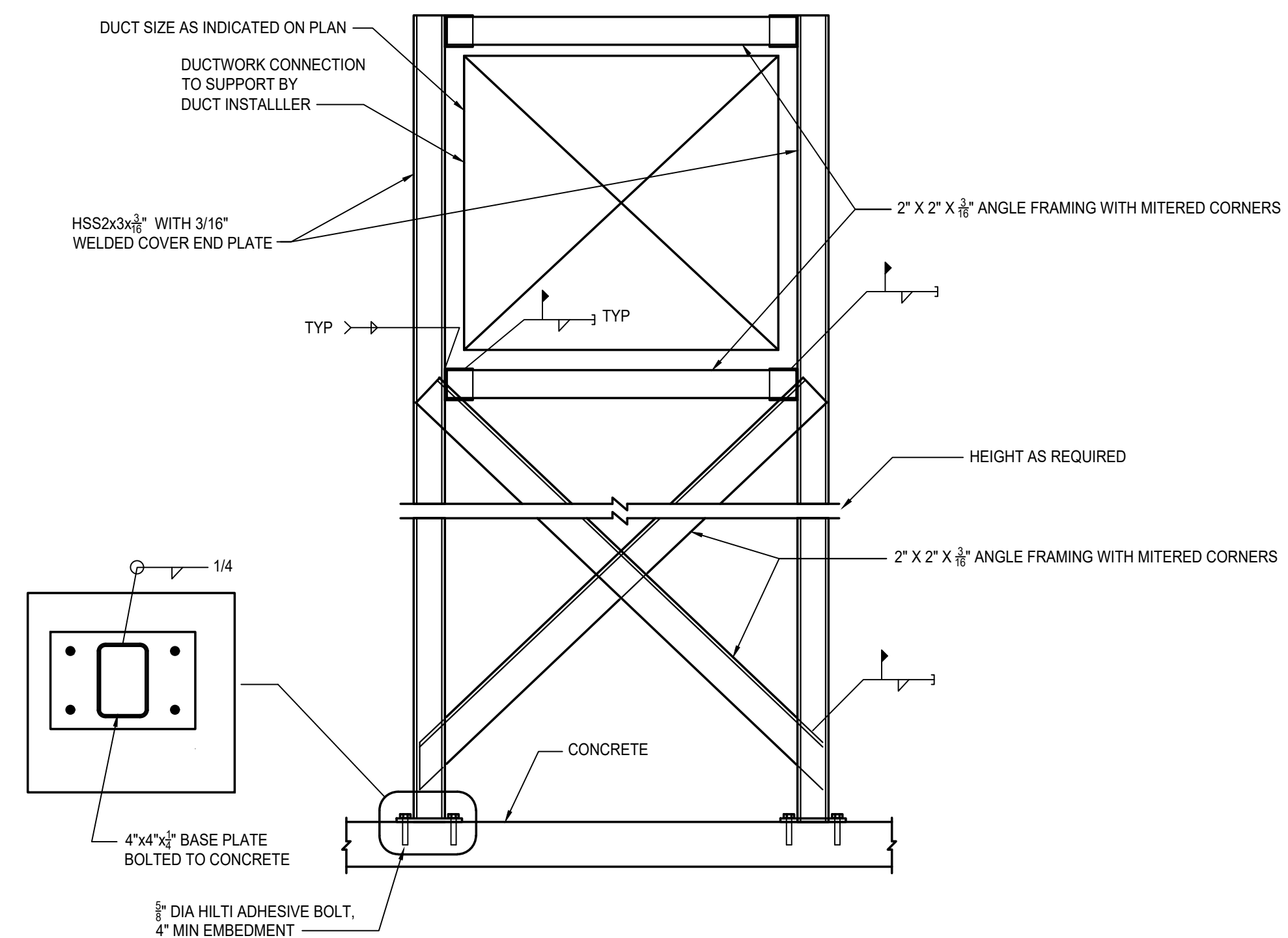
**WATERTIGHT INTAKE DUCT CONNECTION DETAIL**  
NO SCALE



**WALLBOX DRIP LIP DETAIL-"A"**  
NO SCALE

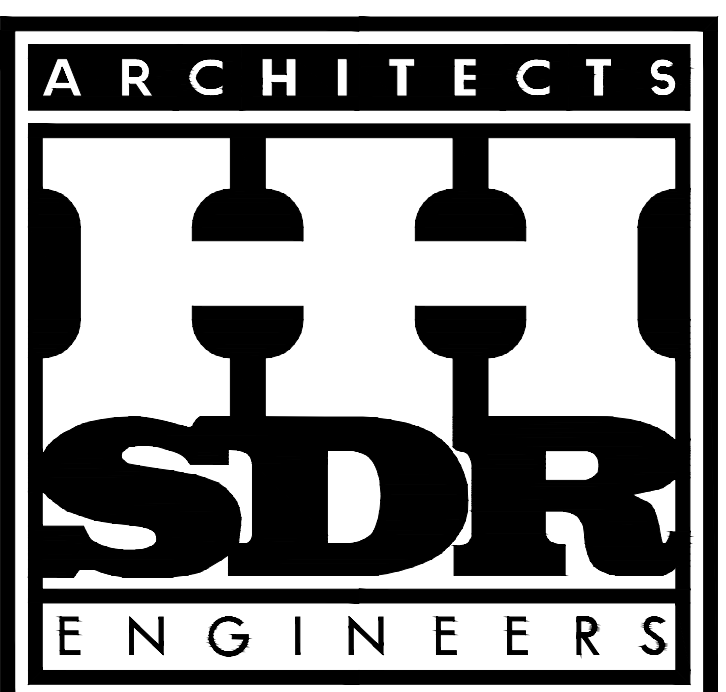


**HORIZONTAL UNIT HEATER PIPING DETAIL**  
NO SCALE

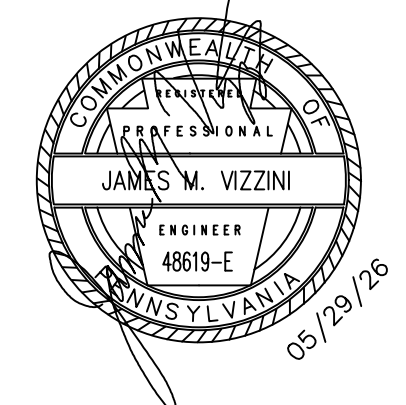


- NOTES:
1. ALL STEEL SHALL BE HOT-DIP GALVANIZED ACCORDING TO ASTM A 123.
  2. REPAIR DAMAGED GALVANIZED COATINGS WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A 780.
  3. THE HVAC CONTRACTOR SHALL HIRE A QUALIFIED INDEPENDENT INSPECTION AGENCY TO HAVE ALL FIELD WELDS VISUALLY INSPECTED. THE INSPECTION AGENCY SHALL ISSUE A REPORT FOR THE ENGINEER'S REVIEW. ALL DEFICIENCIES SHALL BE RECTIFIED PRIOR TO ACCEPTANCE OR APPROVAL OF WORK.
  4. COORDINATE LOCATIONS WITH MECHANICAL DRAWINGS. COORDINATE MAXIMUM SPACING WITH DUCT MANUFACTURER AND DUCT SPAN. - SIZE MEMBERS ACCORDINGLY.
  5. CONTRACTOR'S OPTION TO PROVIDE 1/2"Ø A325 BOLTS IN LIEU OF FIELD WELDING.

**TYPICAL ELEVATED DUCT BRACE DETAIL ON CONCRETE SLAB**  
NOT TO SCALE



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MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM 41 MUNNELL RUN LANE MERCER, PA 16137

FOR THE  
MERCER COUNTY COMMISSIONERS  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

**DETAILS - HVAC**

PACKAGED AIR HANDLING UNIT SCHEDULE (DX COOLING & GAS HEAT)																																										
UNIT NO	SERVES	TOTAL CFM	% OA	OA CFM	SA FAN SYSTEM DATA										COOLING COIL DATA (DIRECT EXPANSION)										HOT GAS REHEAT COIL				GAS HEATING DATA						EA FAN SYSTEM DATA							
					SYSTEM MAX CFM	NO OF FANS	FAN MAX CFM	INT SP	EXT. SP	DIRTY FILTER ALLOWANCE (SP)	TOTAL SP	HP	FAN RPM	BHP	TYPE OF WHEELS	FAN DIAMETER (IN)	E.A.T. °F DB	L.A.T. °F WB	TOT. MBH	SENS. MBH	COIL VEL. FPM	COIL SP	REFRIGERANT	HEATING CAPACITY MBH	EAT °F	LAT °F	INPUT CAPACITY MBH	OUTPUT CAPACITY MBH	EAT °F	LAT °F	MIN	MAX	MODULATION	NO OF FANS	FAN MAX CFM	EXT. SP	HP	FAN RPM	BHP	TYPE OF WHEELS	FAN DIAMETER (IN)	
AHU-1	AQUAPONICS	3,000	20	600	3000	1	3000	0.5	1.0	0.5	1.5	4.3	1428	1.08	SWSI AF	18	77.8	64.7	50.3	120	85.6	194	0.12	R32	64.0	50.3	70.0	200	162	59.0	108.8	0.18	0.5	MODULATING 5:1	1	3000	0.5	4.4	2128	0.65	SWSI AF	14

AHU-1 SHALL BE FURNISHED WITH THE FOLLOWING COMPONENTS:  
 MIXING BOX / ECONOMIZER SECTION WITH RETURN, OUTSIDE AIR, AND EXHAUST DAMPERS  
 POWERED EXHAUST FAN  
 RETURN AIR DUCT CONNECTION ON BACK OF UNIT  
 FILTER SECTION (MERV 8 & MERV 14)  
 DIRECT EXPANSION COIL SECTION AND DRAIN PAN  
 HOT GAS REHEAT COIL SECTION  
 GAS HEAT SECTION  
 SUPPLY FAN SECTION  
 DISCHARGE FLENUM WITH FRONT DUCT CONNECTION  
 UV LIGHTING  
 NEEDLE POINT IONIZATION  
 CONDENSING SECTION  
 REFRIGERANT LEAK DETECTION

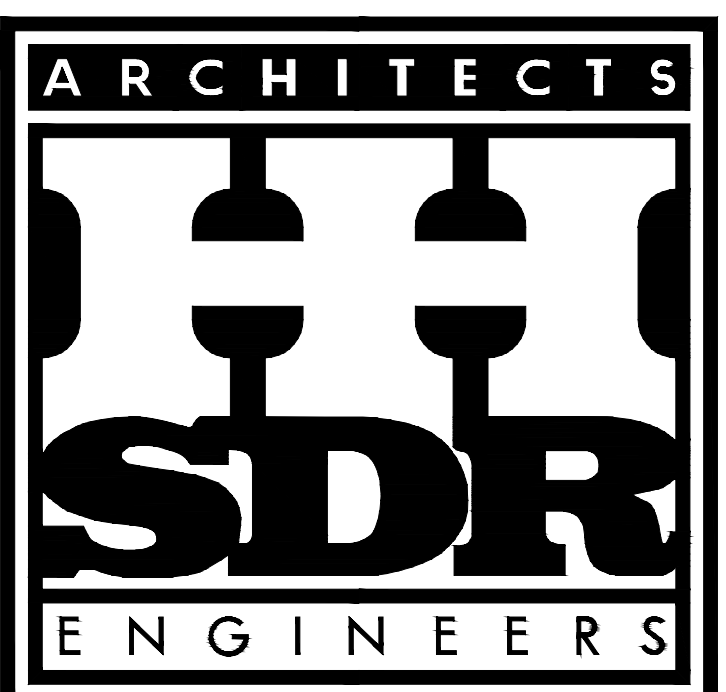
PACKAGED AIR HANDLING UNIT SCHEDULE (DX COOLING & GAS HEAT) (CONTINUED)																			
UNIT NO.	SERVES	COMPRESSOR DATA			CONDENSER DATA			FILTER DATA			POWER DATA (SINGLE POINT)					UNIT DATA			
		TYPE	QUANTITY	# OF REFRIGERANT CIRCUITS	# OF FANS	RATED EFF %	MAX SP DROP INITIAL	MAX SP DROP FINAL	TYPE	FACE VEL. FPM	MCA	MOP	ELEC. CHAR	EER	IEER	APPROX. WEIGHT LBS	UNIT DIMENSIONS (INCHES)	REMARKS	
AHU-1	AQUAPONICS	INVERTER SCROLL	1	1	2	MERV 8 MERV 14	0.22	0.5	2" 4"	167	75.5	110	3-60-208	11.9	20.1	2295	102" L X 73" W X 86" H	SEE NOTES	

- NOTES:
- THE MANUFACTURER BASIS OF DESIGN IS DAIKIN. ANY DEVIATION FROM WHAT IS SCHEDULED, EVEN THOUGH THE MANUFACTURER IS LISTED IN THE SPECIFICATION AS AN EQUIVALENT MANUFACTURER, SHALL BE THIS CONTRACTOR'S RESPONSIBILITY FOR COORDINATION. ADDITIONAL WORK FOR THIS OR OTHER TRADES AT NO COST TO THE PROJECT.
  - COOLING CAPACITY BASED ON 85°F DB/ 72°F W.B. AMBIENT AIR
  - UNIT SHALL BE SET ON BIG FOOT SUPPORT SYSTEM ON A 6" HIGH CONCRETE PAD.
  - PROVIDE ACCESS DOORS FOR ALL UNIT SECTIONS. REFER TO ROOF PLANS FOR ACCESS DOOR LOCATIONS AND OA INTAKE LOCATIONS.
  - UNIT MANUFACTURER IS TO FURNISH UV LIGHTING AND NEEDLE POINT IONIZATION. ALL OTHER CONTROLS AND CONTROL ACCESSORIES SHALL BE PROVIDED AND INSTALLED BY THE ATC CONTRACTOR. UNIT MANUFACTURER SHALL COORDINATE WITH THE ATC CONTRACTOR BEFORE ORDERING UNIT ENSURE ALL CONTROL COMPONENTS ARE COMPATIBLE.
  - UNITS POWER CONNECTIONS ARE AS FOLLOWS:  
SINGLE POINT 3-PHASE POWER CONNECTION TO UNIT  
1-PHASE CONNECTION TO GFI RECEPTACLE / UV LIGHTING / BI-POLAR IONIZATION
  - HEATING CAPACITY BASED ON -5° AMBIENT AIR
  - UNITS TO BE PROVIDED WITH GFI RECEPTACLE BY UNIT MANUFACTURER
  - PROVIDE FAN BLANK OFF PANEL FOR FAN ISOLATION IN THE EVENT OF FAN FAILURE. THE FAN BLANK OFF PANEL SHALL BE LOCATED INSIDE THE UNITS.
  - THE H.C. SHALL PROVIDE CONDENSATE TRAP AS DETAILED AND EXTEND CONDENSATE DRAIN LINE TO ROOF DRAIN.
  - PROVIDE A MINIMUM OF 36" OF CLEARANCE ON ALL SIDES OF UNIT.
  - DUCT CONNECTIONS SHALL BE MADE TO UNIT WITH FLEXIBLE CONNECTIONS.
  - UNITS SHALL BE INTERLOCKED WITH DUCT MOUNTED SMOKE DETECTORS AND SMOKE DAMPERS IN THE SUPPLY AIR AND RETURN AIR DUCTS. UPON DETECTION OF SMOKE THE UNITS SHALL SHUT DOWN AND THE FIRE ALARM SYSTEM SHALL BE ALARMED.
  - UNIT CONTROL PANELS SHALL BE PROVIDED BY THE UNIT MANUFACTURER AND MOUNTED ON UNIT IN NEMA 3R ENCLOSURES.
  - PROVIDE INTERNAL OVER CURRENT PROTECTION ON ALL UNIT COMPONENTS. PROVIDE UNIT DISCONNECT SWITCH MOUNTED ON UNIT.
  - THE UNIT MANUFACTURER TO PROVIDE OR APPROVE ALL UNIT PENETRATIONS. THE UNIT MANUFACTURER IS RESPONSIBLE FOR EDUCATING ALL CONTRACTORS ON THE REQUIREMENTS OF THE FACTORY. AIR LEAKAGE FROM THE UNIT OR CONDENSATION. BUILD UP ON THE UNIT SHALL NOT BE ACCEPTABLE. THE UNIT MANUFACTURER SHALL BE FULLY RESPONSIBLE FOR THE INTEGRITY OF THE UNIT.
  - UNITS SHALL BE PROVIDED WITH ULTRA VIOLET LIGHTING DOWNSTREAM OF THE COOLING COIL. THE UV LIGHTING SHALL BE FURNISHED BY THE EQUIPMENT MANUFACTURER AS PART OF THE UNIT PACKAGE. THE COMPONENTS OF THE UV LIGHTING SHALL BE WIRED BY THE H.C. TO A JUNCTION BOX WITHIN THE UNIT. THE E.C. SHALL PROVIDE AN ELECTRICAL SERVICE OF 20 AMPS @ 140-120V TO THE JUNCTION BOX. UV LIGHTING SHALL SHUT OFF ANYTIME ACCESS DOORS ARE OPENED. PROVIDE WARNING SIGN ON OUTSIDE OF UNIT TO ALERT MAINTENANCE THAT UV LIGHTING IS PRESENT INSIDE UNIT. DISCONNECTS FOR THE UV LIGHTING SYSTEM BY MANUFACTURER. NOTE THAT THE NEEDLE POINT IONIZATION AND UV LIGHTING SHALL BE POWERED OFF OF THE SAME 20 AMP CIRCUIT. PROVIDE DISCONNECT SWITCHES FOR BOTH SYSTEMS.
  - UNITS SHALL BE PROVIDED WITH NEEDLE POINT IONIZATION UPSTREAM OF THE COOLING COIL. THE NEEDLE POINT IONIZATION SHALL BE FURNISHED BY THE EQUIPMENT MANUFACTURER AS PART OF THE UNIT PACKAGE. THE COMPONENTS OF THE NEEDLE POINT IONIZATION SHALL BE WIRED TO A JUNCTION BOX WITHIN THE UNIT BY THE H.C. THE E.C. SHALL PROVIDE AN ELECTRICAL SERVICE OF 20 AMPS @ 140-120V TO THE JUNCTION BOX. DISCONNECTS FOR THE NEEDLE POINT IONIZATION SYSTEM BY MANUFACTURER. NOTE THAT THE NEEDLE POINT IONIZATION AND UV LIGHTING SHALL BE POWERED OFF OF THE SAME 20 AMP CIRCUIT. PROVIDE DISCONNECT SWITCHES FOR BOTH SYSTEMS.
  - UNIT SHALL BE PROVIDED WITH REFRIGERANT LEAK DETECTION SYSTEM.
  - UNIT SHALL BE PROVIDED WITH FACTORY CONTROLS.

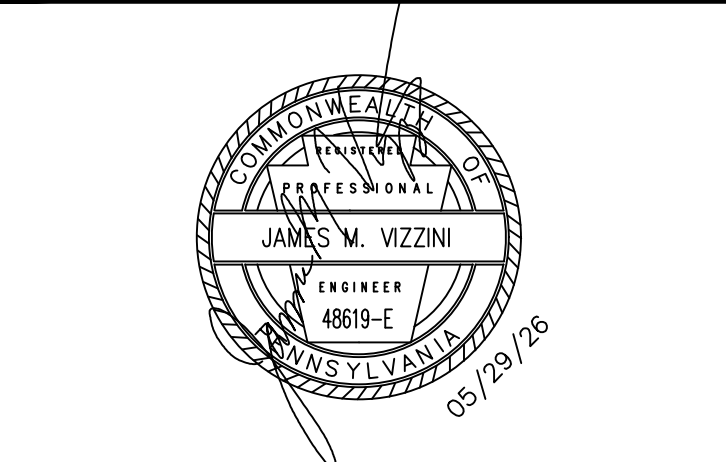
PACKAGED DEHUMIDIFICATION AIR HANDLING UNIT SCHEDULE (GAS & DX COOLING)																																							
SYMBOL	SERVES	SUPPLY FAN DATA								EXHAUST FAN DATA				COMPRESSOR DATA				EVAPORATOR COIL DATA				REHEAT COIL DATA				POOL HEATING COILS DATA				HEATING DATA (GAS FURNACE)				ELECTRICAL DATA				WEIGHT	REMARKS
		TOTAL CFM	MIN OA	OA CFM	ESP	QNTY	HP	FLA	DRIVE	TOTAL CFM	EXT. SP	HP	FLA	DRIVE	TYPE	RLA	LRA	REFRIGERANT	SENS. MBH	TOTAL MBH	LATENT MBH	CIRCUITS	TOTAL HEAT REJECTION MBH	MBH	GPM	PD	PIPE CONNECTION SIZE	INPUT MBH	OUTPUT MBH	GAS PRESSURE MAX (IN WG)	CONTROL	MCA	MOP	FLA	ELEC. CHAR.				
DAHU-1	AQUAPONICS	3,000	20	600	1.0	1	3.6	6.5	DIRECT	660	0.0	1.5	5.5	DIRECT	SCROLL	27.7	178.5	R454B	60.6	86.3	23.8	1	107.9	63	12	10.0	1.14"	200	162	14.7	MODULATED	50	70	43	3-60-208	1700	SEE NOTES		

- NOTES:
- THE MANUFACTURER BASIS OF DESIGN IS DETRON BY DETRON. ANY DEVIATION FROM WHAT IS SCHEDULED, EVEN THOUGH THE MANUFACTURER IS LISTED IN THE SPECIFICATION AS AN APPROVED EQUIVALENT MANUFACTURER, HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ADDITIONAL COST INCURRED TO COMPLETE FINAL INSTALLATION OF THE UNIT. THIS INCLUDES BUT IS NOT LIMITED TO: SUBMITTALS, RE-DESIGN, INSTALLATION, CONNECTIONS AND FINAL START UP.
  - CAPACITIES BASED ON 80°F AQUAPONICS WATER TEMPERATURE, 75°F SPACE AIR TEMPERATURE AND 50% RELATIVE HUMIDITY.
  - THE UNIT SHALL BE MOUNTED ON BIG FOOT SUPPORT SYSTEM ON 6" HIGH CONCRETE PAD OUTSIDE.
  - UNIT SHALL BE CONSTANT VOLUME W/ HEAT RECOVERY CIRCUIT.
  - HEATING CAPACITY BASED ON -5° AMBIENT OUTSIDE AIR.
  - UNIT SHALL BE A SINGLE POINT POWER CONNECTION. UNIT SHALL BE 3-60-208V.
  - UNIT SHALL BE PROVIDED WITH HOT GAS REHEAT COIL, POOL HEATING COIL, GAS FURNACE, EVAPORATOR DX COIL, AND ALL OTHER ASSOCIATED ACCESSORIES.
  - UNIT SHALL BE PROVIDED WITH A FULL MANUFACTURER'S CONTROL SYSTEM WITH BACNET INTERFACE. THE H.C. SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN UNIT MANUFACTURER AND ATC SUBCONTRACTOR PRIOR TO ORDERING EQUIPMENT. THE FACTORY UNIT CONTROLS SHALL BE INTERFACED VIA BACNET TO THE AUTOMATED LOGIC CAMPUS CONTROL SYSTEM.
  - UNIT SHALL BE PROVIDED WITH REFRIGERANT LEAK DETECTION SYSTEM.

UNIT TO BE PROVIDED UNDER ALTERNATE BID H-1 WORK ONLY



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BLOWER COIL UNIT SCHEDULE (DX COOLING & HW HEATING) (CAV)																																						
UNIT NO	SERVES	TOTAL CFM	% OA	OA CFM	SUPPLY FAN DATA										DX COOLING COIL										HEATING DATA (HOT WATER)						FILTER DATA		OVERALL UNIT DATA		REMARKS			
					SYSTEM CFM	NO OF FANS	INT SP	EXT SP	TOTAL SP	HP EACH	DRIVE	FAN RPM	BHP EACH	ELECT. CHAR.	MCA	MOP	EAT °F DB	LAT °F WB	TOT. MBH	SENS. MBH	COIL VEL. FPM	COIL SP	REFRIGERANT	E.A.T. °F DB	L.A.T. °F WB	TOT. MBH	EWIT	GPM	RUNOUT PRESSURE	LWT	PD FT	RATED EFF %	TYPE	APPROX. WEIGHT LBS		MAXIMUM UNIT DIMENSIONS (INCHES)		
BCU-1	CLRM 102	850	20	170	850	1	1.0	0.5	1.5	1	DIRECT	1325	0.37	1-60-120	14.3	25	78.9	65.6	55.0	54.1	29.7	22.3	350	0.23	R32	51	99.5	45.2	180	3.1	3/4"	150	2.81	PLEATED 2"	MERV 8	357	48" L X 37" W X 18" H	SEE NOTES
BCU-1	105 & 104	850	20	170	850	1	1.0	0.5	1.5	1	DIRECT	1325	0.37	1-60-120	14.3	25	78.9	65.6	55.0	54.1	29.7	22.3	350	0.23	R32	51	99.5	45.2	180	3.1	3/4"	150	2.81	PLEATED 2"	MERV 8	357	48" L X 37" W X 18" H	SEE NOTES

- NOTES:
- PROVIDE ACCESS PANELS FOR ALL UNIT SECTIONS. REFER TO PLANS FOR ACCESS DOOR LOCATIONS.
  - UNITS POWER CONNECTIONS ARE AS FOLLOWS:  
1-PHASE CONNECTION TO SA FAN  
1-PHASE CONNECTION TO UNIT CONTROL PANEL  
1-PHASE CONNECTION TO UV LIGHTING / NEEDLEPOINT IONIZATION
  - ALL CONTROLS AND CONTROL ACCESSORIES SHALL BE PROVIDED AND INSTALLED BY THE ATC CONTRACTOR. UNIT MANUFACTURER SHALL COORDINATE WITH THE ATC CONTRACTOR BEFORE ORDERING UNIT ENSURE ALL CONTROL COMPONENTS ARE COMPATIBLE.
  - THE SPACE IN WHICH THE BC IS TO BE INSTALLED IS VERY LIMITED. THEREFORE UNIT SHALL BE NO LARGER THAN SHOWN ON DRAWINGS. H.C. TO FIELD VERIFY INSTALLATION TO ENSURE ADEQUATE SPACE FOR UNIT INSTALLATION.
  - THE MANUFACTURER BASIS OF DESIGN IS DAIKIN. ANY DEVIATION FROM WHAT IS SCHEDULED, EVEN THOUGH THE MANUFACTURER IS LISTED IN THE SPECIFICATION AS AN EQUIVALENT MANUFACTURER, SHALL BE THIS CONTRACTOR'S RESPONSIBILITY FOR COORDINATION AND ADDITIONAL WORK FOR THIS OR OTHER TRADES AT NO COST TO THE PROJECT.
  - ALL DUCT CONNECTIONS TO UNIT SHALL BE MADE WITH FLEXIBLE CONNECTIONS.
  - UNITS SHALL BE MOUNTED ABOVE CEILING AND SUSPENDED FROM STRUCTURE. HVAC CONTRACTOR SHALL PROVIDE ALL RELATED MOUNTING ACCESSORIES AS REQUIRED TO SUSPEND UNIT FROM STRUCTURE.
  - UNITS SHALL BE PROVIDED WITH ULTRA VIOLET LIGHTING DOWNSTREAM OF THE COOLING COIL. THE UV LIGHTING SHALL BE FURNISHED BY THE EQUIPMENT MANUFACTURER AS PART OF THE UNIT PACKAGE.
  - THE H.C. SHALL PROVIDE CONDENSATE TRAP AS DETAILED.
  - UNIT CONTROL PANELS SHALL BE PROVIDED BY THE ATC CONTRACTOR.
  - UNIT DIMENSIONS SHALL NOT EXCEED WHAT IS SCHEDULED.
  - UNIT SHALL BE PROVIDED WITH REFRIGERANT LEAK DETECTION SYSTEM.
  - UNITS SHALL BE PROVIDED WITH FACTORY CONTROLS.

REMOTE MOUNTED CONDENSING UNIT SCHEDULE																	
UNIT NO.	SERVES	CAPACITY TONS	COMPRESSORS	FANS	STEPS OF CONTROL	# OF CIRCUITS	# OF REFRIG PIPES	SEER	REFRIGERANT	SUCTION TEMP	MCA	MOP	ELEC. CHAR	APPROX. WT. LB.	UNIT DIMENSIONS L X W X H (INCHES)	AMBIENT TEMP °F	REMARKS
RCU-1	BCU-1	2.5	1	1	SINGLE STAGE COOLING W/ INVERTER SCROLL COMPRESSOR	1	2	14.5	R32	45	17	25	1-60-208V	174	29" L X 29" W X 32.5" H	95	SEE NOTES
RCU-2	BCU-2	2.5	1	1	SINGLE STAGE COOLING W/ INVERTER SCROLL COMPRESSOR	1	2	14.5	R32	45	17	25	1-60-208V	174	29" L X 29" W X 32.5" H	95	SEE NOTES

- NOTES:
- THE MANUFACTURER BASIS OF DESIGN IS DAIKIN. ANY DEVIATION FROM WHAT IS SCHEDULED, EVEN THOUGH THE MANUFACTURER IS LISTED IN THE SPECIFICATION AS AN EQUIVALENT MANUFACTURER, SHALL BE THIS CONTRACTOR'S RESPONSIBILITY FOR COORDINATION. ADDITIONAL WORK FOR THIS OR OTHER TRADES AT NO COST TO THE PROJECT.
  - UNIT SHALL BE PROVIDED WITH A SINGLE POINT POWER CONNECTION
  - UNIT SHALL BE PROVIDED WITH CONTROL AND OPERATION DOWN TO AMBIENT TEMPERATURES OF 40 DEGREES F.
  - UNIT SHALL BE SET ON 4" HIGH CONCRETE PAD.
  - UNIT SHALL BE PROVIDED WITH REFRIGERANT LEAK DETECTION SYSTEM.
  - UNITS SHALL BE PROVIDED WITH FACTORY CONTROLS.

MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM  
 41 MUNNELL RUN LANE  
 MERCER, PA 16137

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 125 SOUTH DIAMOND STREET  
 MERCER, PA 16137

SCHEDULES - HVAC

REVISIONS

**EXHAUST FAN SCHEDULE**

NO	SERVES	TYPE	FAN CFM	RPM	STATIC PRESS	TIP SPEED	DRIVE	BHP	HP	ELECT CHAR	WEIGHT LBS	WALL OR ROOF OPENING	CONTROL	MODEL	REMARKS
CEF-1	TLT 101	CEILING MOUNTED	100	935	0.41	-	DIRECT	-	6W	1-60-120	12	-	ON/OFF SWITCH	SP-80-VG	SEE NOTES
CEF-2	TLT 103	CEILING MOUNTED	100	935	0.41	-	DIRECT	-	6W	1-60-120	12	-	ON/OFF SWITCH	SP-80-VG	SEE NOTES
EF-1	CLRM 102	IN-LINE	850	1140	0.375	-	DIRECT	-	1/6	1-60-120	66	-	OCCUPIED/UNOCCUPIED	SQ-120	SEE NOTES
EF-2	COMP RM 105	IN-LINE	850	1140	0.375	-	DIRECT	-	1/6	1-60-120	66	-	OCCUPIED/UNOCCUPIED	SQ-120	SEE NOTES

- NOTE:**
- THE MANUFACTURER BASES OF DESIGN IS GREENHECK. ANY DEVIATION FROM WHAT IS SCHEDULED, EVEN THOUGH THE MANUFACTURER IS LISTED IN THE SPECIFICATION AS AN APPROVED ALTERNATE MANUFACTURER, IT IS THE HVAC CONTRACTOR'S RESPONSIBILITY TO PAY FOR ANY ADDITIONAL COST TO THE ELECTRICAL CONTRACTOR RESULTING FROM ANY ELECTRICAL CHANGES AS SCHEDULED.
  - ALL SINGLE PHASE DIRECT DRIVEN FANS SHALL BE FURNISHED WITH AN INTEGRAL SPEED CONTROLLER MOUNTED TO THE INSIDE OF THE FAN HOUSING TO ADJUST FAN TO PROVIDE SYSTEM CFM.

**HORIZONTAL UNIT HEATER SCHEDULE (HOT WATER)**

UNIT NO.	SERVES	CFM	MBH	WTD	ENT TEMP °F		FAT	GPM	PIPE RUN/OUT SIZE	MAX PD	FAN MOTOR		REMARKS	
					AIR	WATER					HP	RPM		ELEC CHAR
HUH-1	BASEMENT	850	30.7	20°F	60°F	180°F	85	3.1	1	2.6	1/20	1000	1-60-120	SEE NOTE

- NOTES:**
- GENERALLY ON THIS PROJECT, HUH'S WILL BE CONTROLLED BY A WALL MOUNTED THERMOSTAT. HOWEVER, IF THE DRAWINGS DO NOT SHOW A WALL MOUNTED THERMOSTAT, PROVIDE A THERMOSTAT ON A 4" CONDUIT EXTENSION BELOW UNIT.

**HOT WATER BOILER SCHEDULE**

SYMBOL	INPUT (MBH)	OUTPUT (MBH)	BOILER HP	BURNER HP	ELEC CHAR	GAS PRESSURE	APPROX OPERATING WEIGHT (LBS)	REMARKS
BOILER NO 1	140	130.2	3.9	-	1-60-120 - 4 AMPS	3.5" - 13" WC	118	SEE NOTES

- NOTES:**
- THE BASIS OF DESIGN BOILER IS LAARS MODEL MFTHW199.
  - THE MANUFACTURER BASIS OF DESIGN IS LAARS. ANY DEVIATION FROM WHAT IS SCHEDULED, EVEN THOUGH THE MANUFACTURER IS LISTED IN THE SPECIFICATION AS AN EQUIVALENT MANUFACTURER, SHALL BE THIS CONTRACTOR'S RESPONSIBILITY FOR COORDINATION AND ADDITIONAL WORK FOR THIS OR OTHER TRADES AT NO COST TO THE PROJECT.
  - THE BOILER SHALL BE PACKAGED WITH MOUNTED AND WIRED PUMP INSIDE THE BOILER JACKET.
  - THE BOILER SHALL BE MOUNTED ON WALL.
  - THE BOILER SHALL BE ABLE TO OPERATE DOWN TO A GAS PRESSURE OF 3.5" WC.
  - THE BOILER SHALL MODULATE BETWEEN 20% - 100% OF FULL FIRE.

**HOT WATER PUMP SCHEDULE**

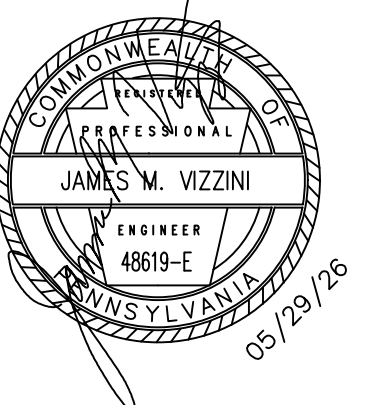
PUMP NO	PUMP DUTY	TYPE	GPM	FEET HD	EFF %	BHP	MOTOR HP	RPM	ELEC CHAR	OPERATING CONDITIONS		IMPELLER SIZE	VFD	VARIABLE OR CONSTANT SPEED
										GPM	10			
HWP-1	BUILDING LOOP SECONDARY (DUTY)	IN-LINE	10	30	28.1	0.29	1/4	3250	1-60-120V	FT HD	30	1.25"	NO	CONSTANT
			20	25	35	0.34				EFF	26.1			
			30	18	33	0.40								

- NOTES:**
- THE MANUFACTURER BASIS OF DESIGN IS WILO. ANY DEVIATION FROM WHAT IS SCHEDULED, EVEN THOUGH THE MANUFACTURER IS LISTED IN THE SPECIFICATION AS AN EQUIVALENT MANUFACTURER, SHALL BE THIS CONTRACTOR'S RESPONSIBILITY FOR COORDINATION AND ADDITIONAL WORK FOR THIS OR OTHER TRADES AT NO COST TO THE PROJECT.

NOTES



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41 MUNNELL RUN LANE  
MERCER, PA 16137

FOR THE  
MERCER COUNTY COMMISSIONERS  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

**SCHEDULES - HVAC**

COMM. NO.  
4826  
DATE  
05/29/26

SHEET NO.  
**H-6.2**  
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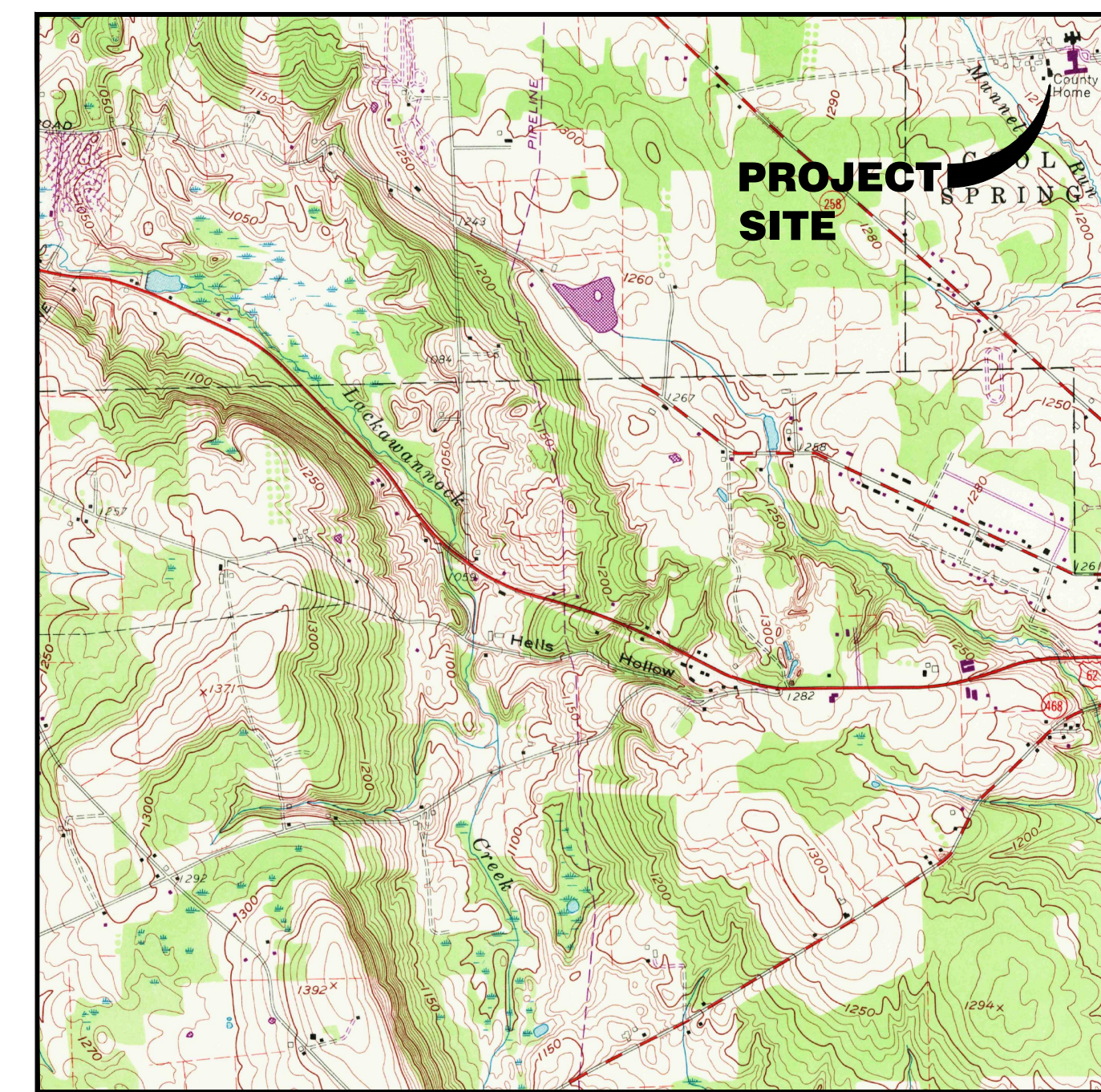


CALL BEFORE YOU DIG!  
 PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS  
 NOTICE FOR CONSTRUCTION PHASE AND 10  
 WORKING DAYS IN DESIGN STAGE-STOP CALL  
 Pennsylvania One Call System, Inc.  
 PA ONE CALL SERIAL #  
 20261340748  
 1-800-242-1776

<b>COOLSPRING TOWNSHIP</b>	<b>DIVERSIFIED GAS AND OIL</b>
CONTACT: TERRI LIGO EMAIL: COOLTPW@WINDSTREAM.NET PHONE: 724-475-2010	CONTACT: TREY BAKER EMAIL: TBAKER@DGC.COM PHONE: 724-303-6476
<b>BOROUGH OF MERCER</b>	<b>AQUA PENNSYLVANIA INC.</b>
CONTACT: OFFICE PERSONNEL EMAIL: MERCERBORO@COMINTERNET.NET PHONE: 724-662-3980	CONTACT: DAN CONLEY EMAIL: DCONLEY@AQUAAMERICA.COM PHONE: 724-981-1200 EXT. 50715
<b>PENNSYLVANIA ELECTRIC CO.</b>	<b>VERIZON</b>
CONTACT: MELL YSSA ADAMS EMAIL: MADAMSW@FIRSTENERGYCORP.COM PHONE: 330-252-4013	CONTACT: VICTOR WOOD EMAIL: VICTOR.S.WOOD@VERIZON.COM
<b>NATIONAL FUEL</b>	<b>ZITO MEDIA L.P.</b>
CONTACT: BRANDT BAUER EMAIL: BAUERBT@NATFUEL.COM PHONE: 814-871-8862	CONTACT: TODD MCMANUS EMAIL: TODD.MCMANUS@ZITOMEDIA.COM PHONE: 814-260-9575

**LEGEND**

<b>EXISTING</b>	
	SANITARY SEWER
	STORM SEWER
	MANHOLE
	ELECTRIC
	UTILITY POLE
	GAS LINE
	WATER LINE
<b>PROPOSED</b>	
	SANITARY SEWER
	SANITARY CLEANOUT
	GAS LINE
	GAS VALVE
	WATER LINE
	WATER VALVE



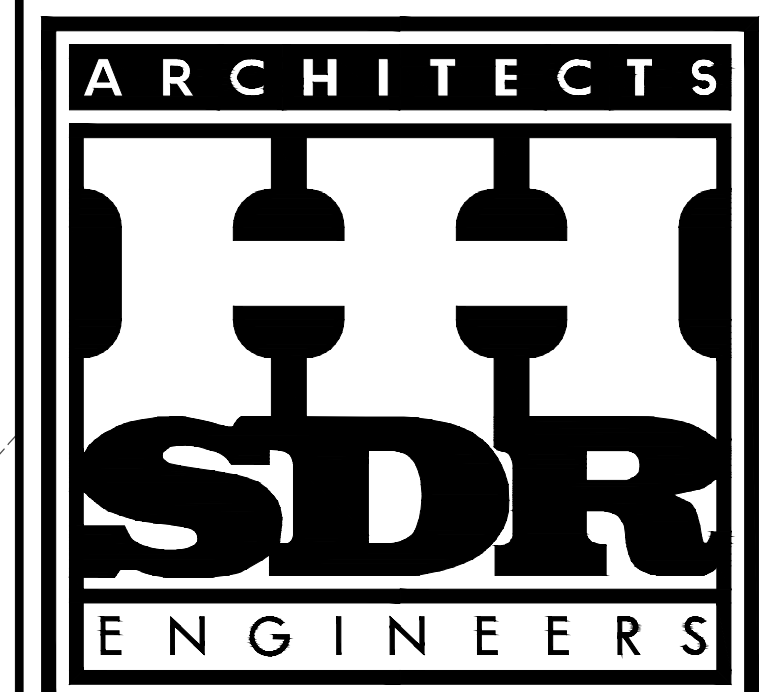
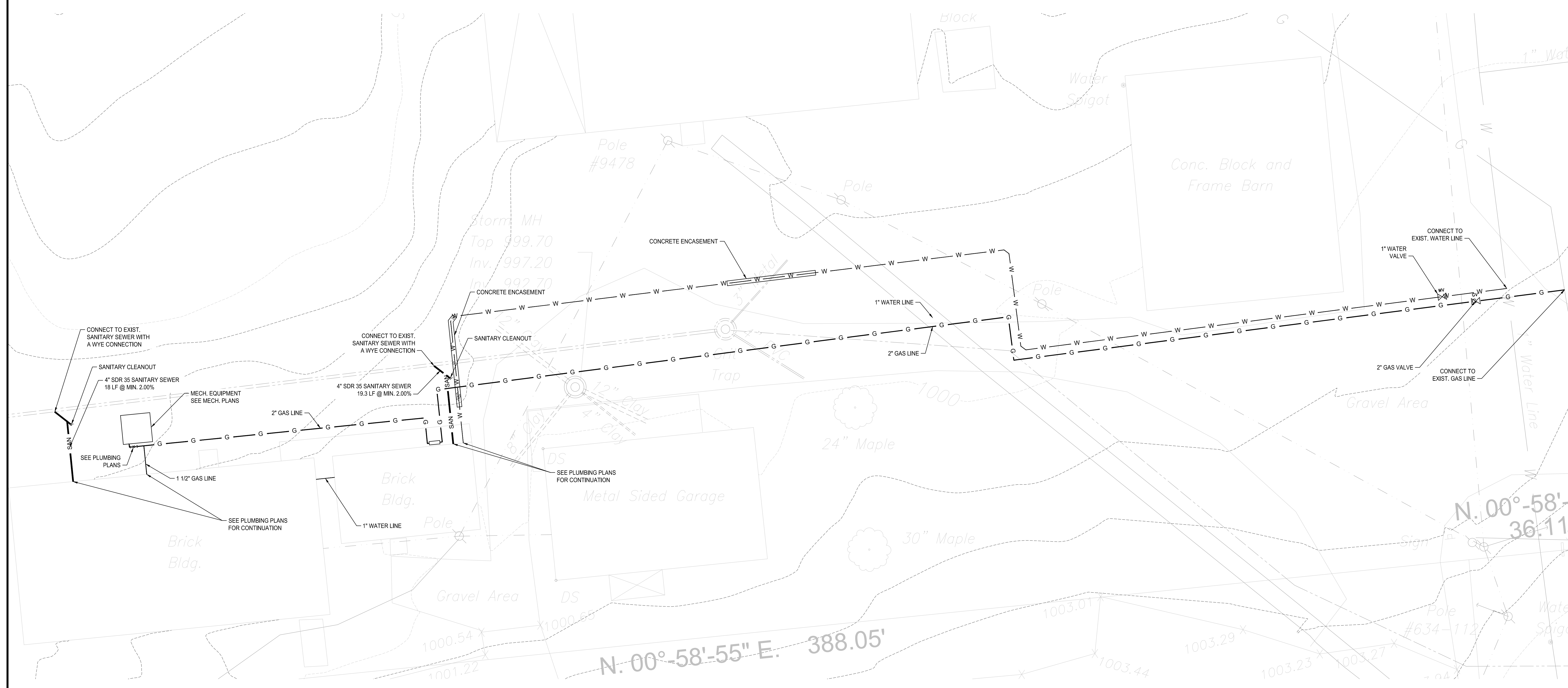
**SITE LOCATION MAP**  
 PORTION OF GREENFIELD, PA  
 7 1/2 MIN. QUADRANGLES  
 1" = 2,000'

REVISIONS

NO.	DESCRIPTION

NOTES

- ALL SEWER LINE MATERIALS / WORK SHALL BE PERFORMED IN ACCORDANCE WITH COOLSPRING TOWNSHIP SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY THE EXISTING UTILITY LOCATIONS AND SIZES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK AND CONNECTIONS WITH THE APPROPRIATE UTILITY COMPANY.
- CONTRACTOR TO VERIFY EXISTING SANITARY SEWER INVERT ELEVATIONS PRIOR TO STARTING WORK.
- CONTRACTOR TO COORDINATE WITH THE WATER COMPANY REGARDING LOCATION OF WATER METER, WATER SERVICE CONNECTION, AND ALL REQUIRED CONNECTIONS TO THE EXISTING WATER MAIN.



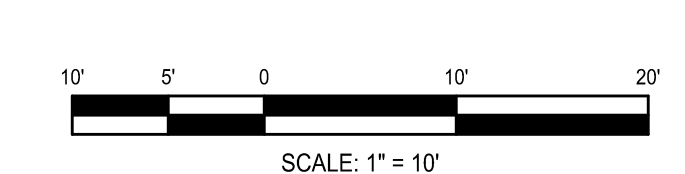
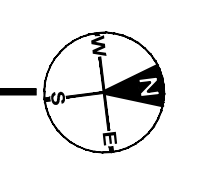
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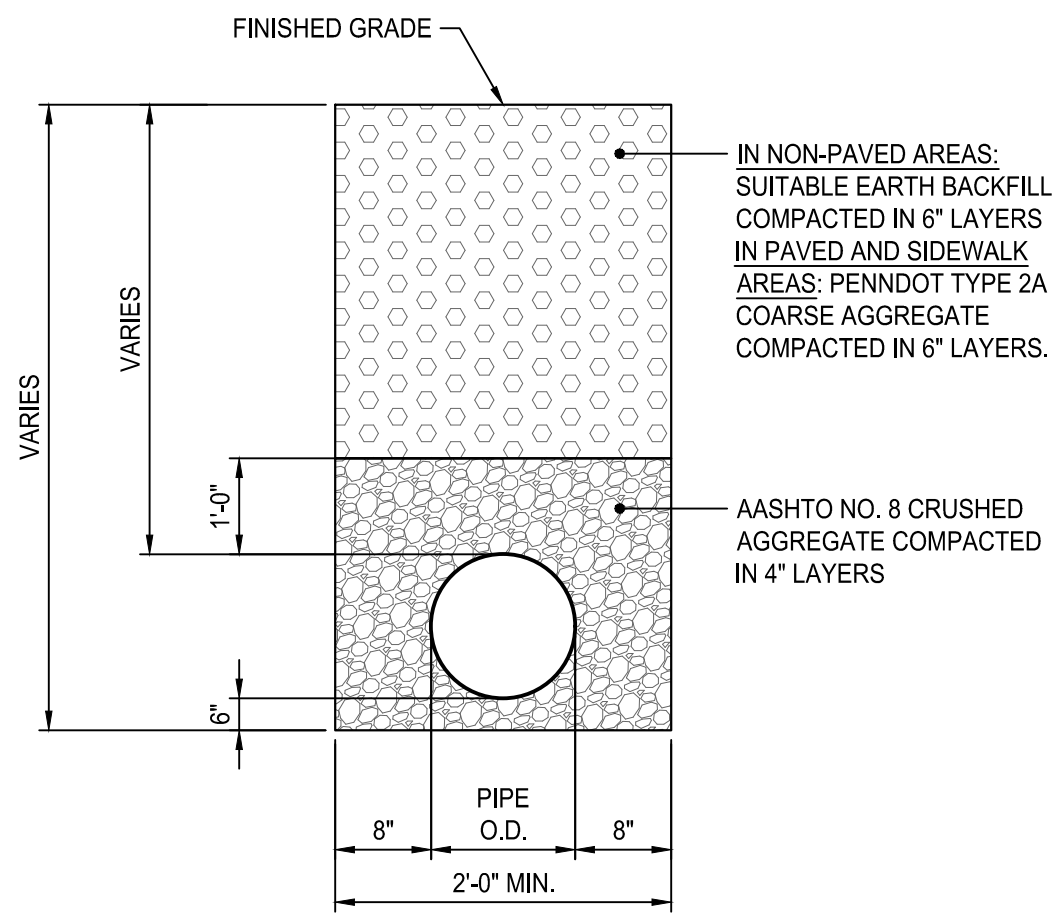


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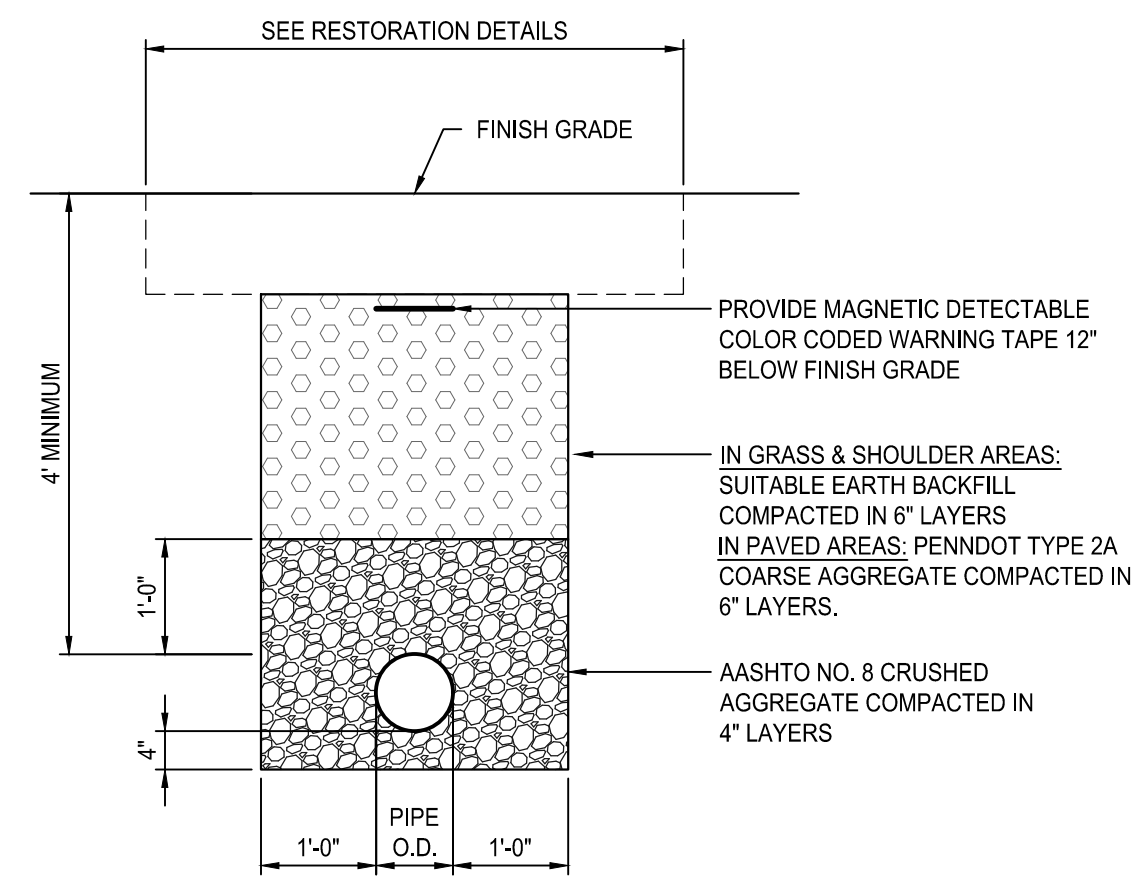
FOR THE  
 MERCER COUNTY COMMISSIONERS  
 125 SOUTH DIAMOND STREET  
 MERCER, PA 16137

**SITE PLAN**  
**PLUMBING SITE**





1 SANITARY SEWER TRENCH  
PS-1.2 NO SCALE

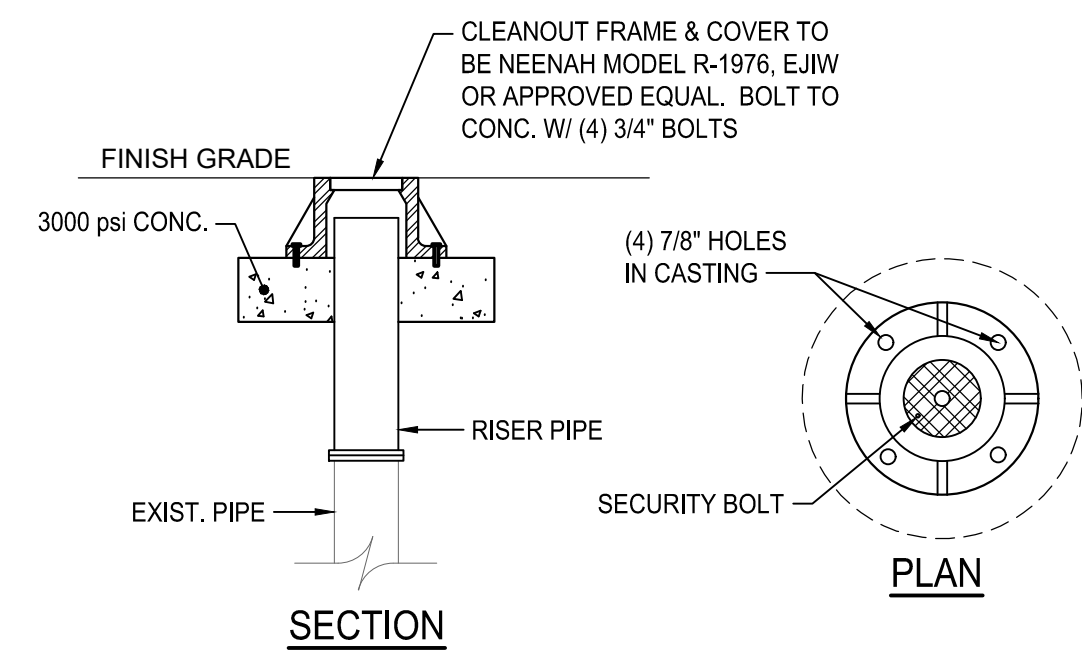


5 WATER LINE TRENCH  
PS-1.2 NO SCALE

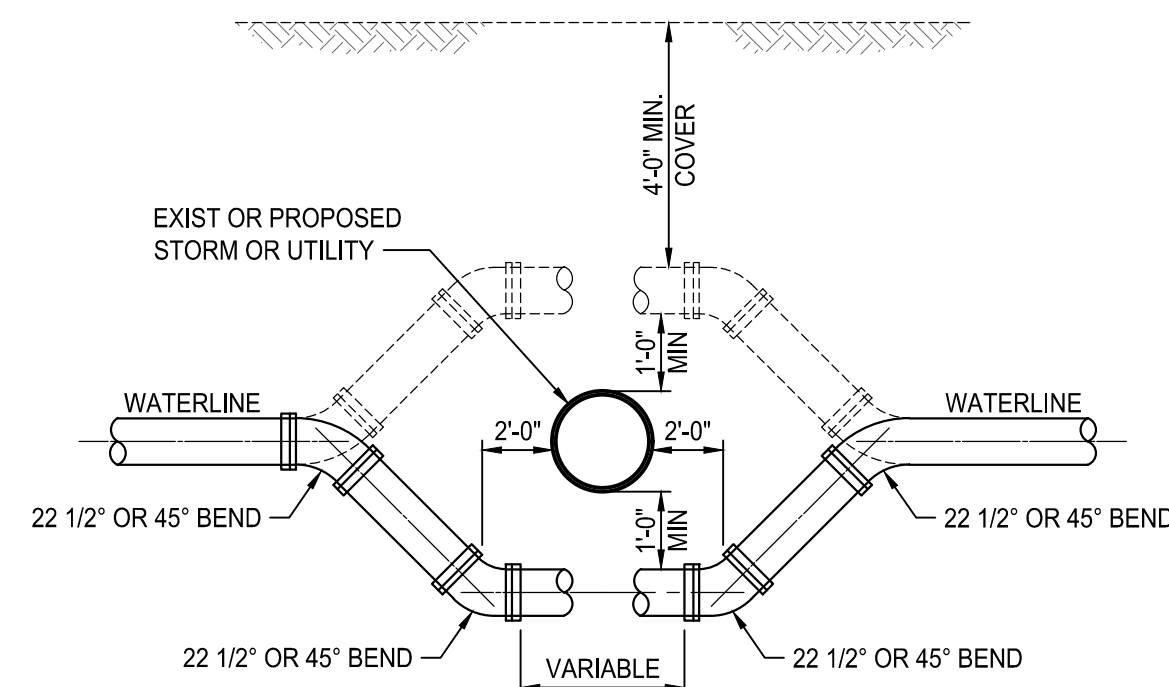
UTILITY CROSSING SEPARATION TABLE			
UTILITY		MINIMUM SEPARATION	COMMENTS
SAN	STM	N/A	AS SHOWN (SEE NOTE 1) IF LESS, CONC. ENCASE 10' BOTH SIDES OF WL
SAN	WL	1.5'	
SAN	T/C	1.0'	
SAN	ELECT.	1.0'	
SAN	GAS	1.0'	
STM	WL	1.5'	IF LESS, CONC. ENCASE 10' BOTH SIDES OF WL
STM	T/C	1.0'	
STM	ELECT.	1.0'	
STM	GAS	1.0'	
WL	T/C	1.5'	
WL	ELECT.	1.5'	
WL	GAS	1.5'	
T/C	ELECT.	1.0'	
T/C	GAS	1.0'	

UTILITY CROSSING SEPARATION TABLE NOTES:  
1. IF SANITARY OVER STORM, MIN. 1 FOOT SEPARATION; IF LESS, PROVIDE PIERS FOR SANITARY IF STORM OVER SANITARY; IF LESS PROVIDE CONCRETE PIERS FOR STORM.

9 UTILITY CROSSING SEPARATION TABLE  
PS-1.2 NO SCALE

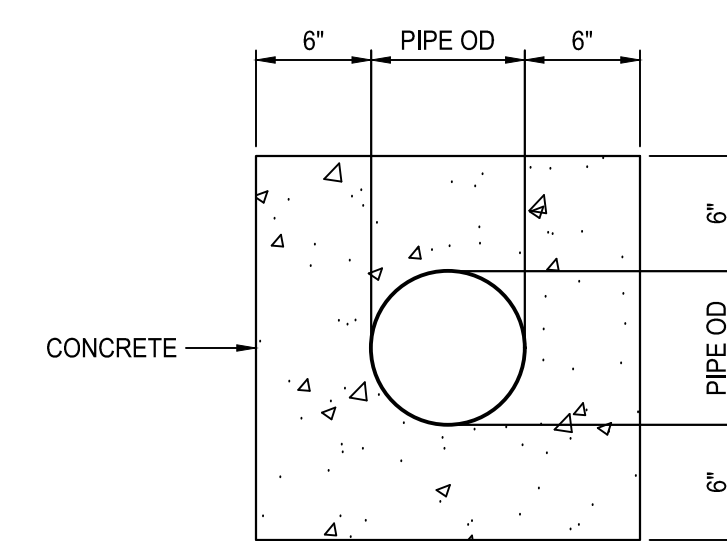


2 SANITARY CLEANOUT  
PS-1.2 NO SCALE



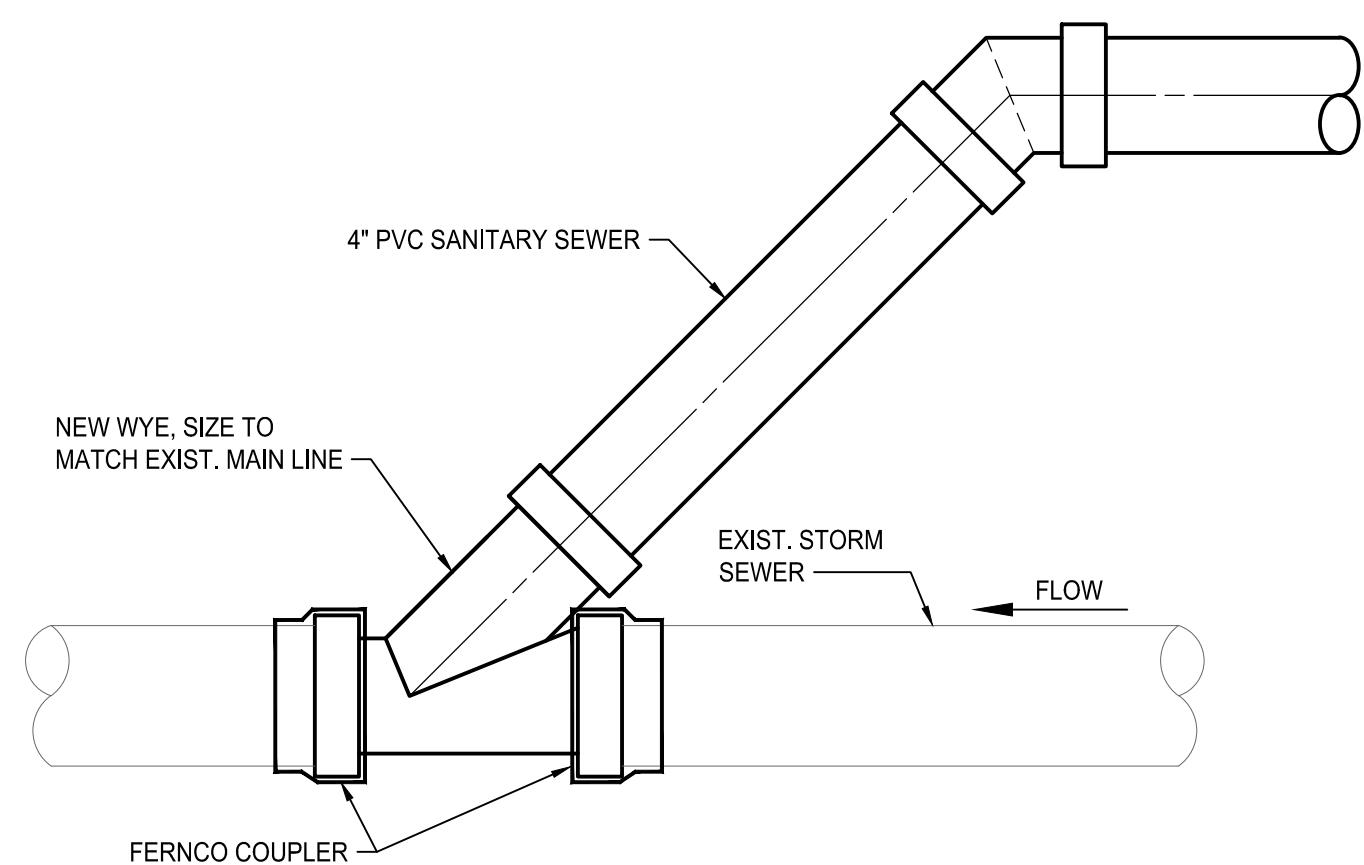
NOTES:  
1. ALL JOINTS SHALL BE RESTRAINED.  
2. ALL FASTENERS SHALL BE STAINLESS STEEL.

6 WATER LINE OFFSET  
PS-1.2 NO SCALE

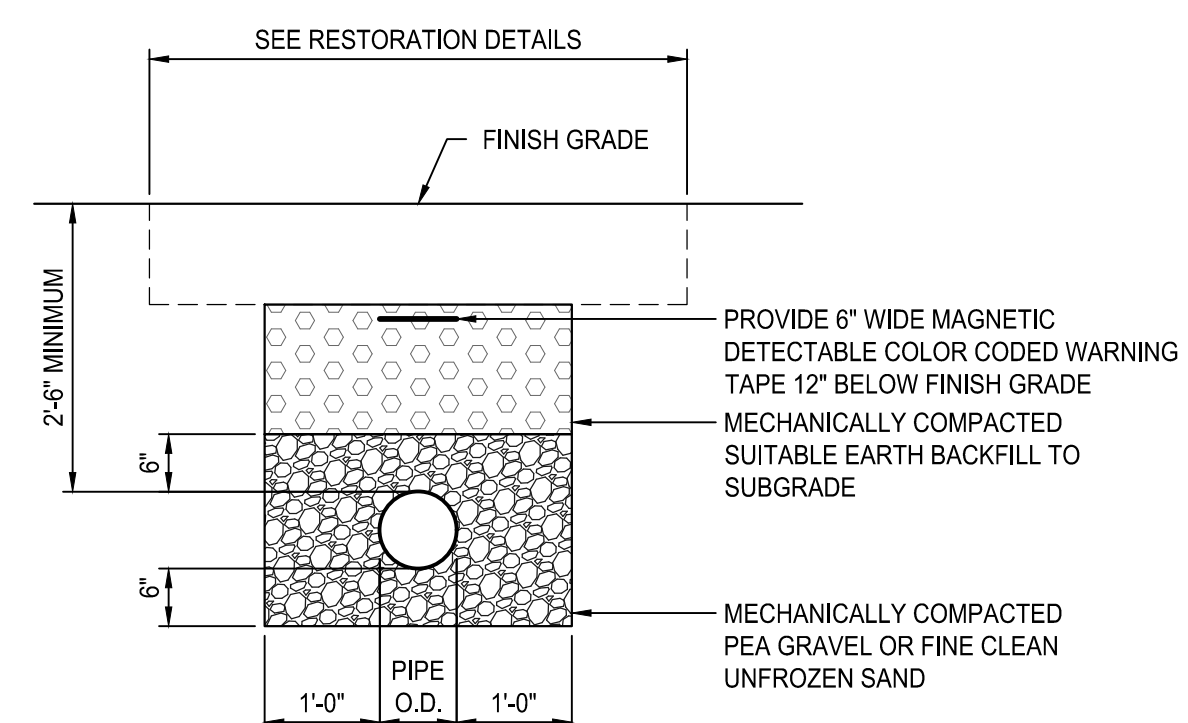


CONCRETE ENCASEMENT NOTES:  
1. MAINTAIN MINIMUM COVER AS PER SPECIFICATIONS.  
2. EXTEND CONCRETE ENCASEMENT 10 FEET BEYOND SIDES OF CROSSING PIPE.

10 CONCRETE ENCASEMENT  
PS-1.2 NO SCALE



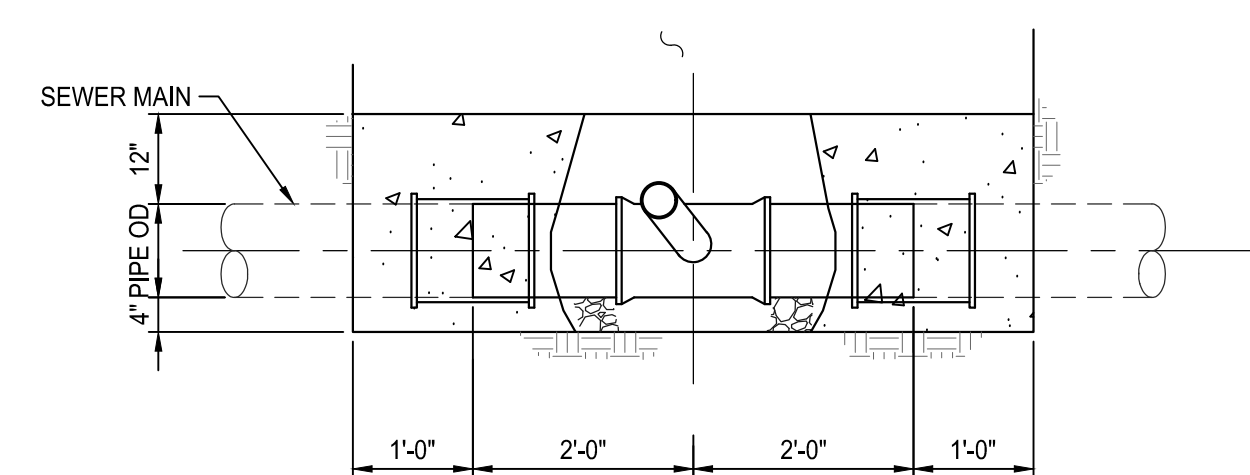
3 SANITARY SEWER LATERAL CONNECTION WITH FERNCO FITTINGS  
PS-1.2 NO SCALE



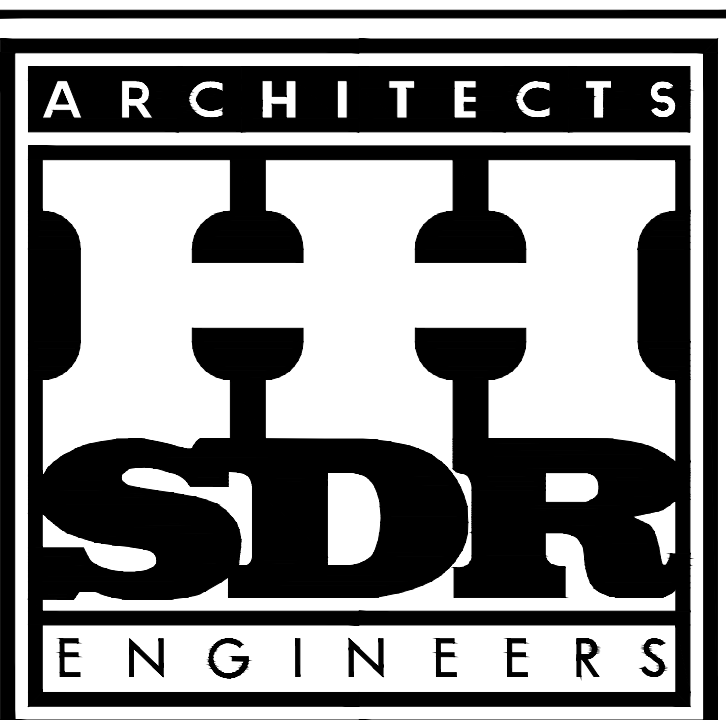
7 GAS LINE TRENCH  
PS-1.2 NO SCALE

UTILITY BURIAL DEPTH CHART		
UTILITY	MINIMUM SEPARATION	COMMENTS
SANITARY SEWER	N/A	AS SHOWN ON PROFILE
STORM DRAIN	N/A	AS SHOWN ON PROFILE
POTABLE WATER	4.5' MIN COVER	
TELEPHONE/COMMUNICATIONS	2.0' MIN COVER	
ELECTRIC	2.0' MIN COVER	
GAS	2.5' MIN COVER	

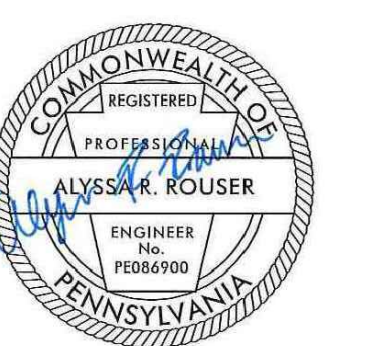
8 UTILITY BURIAL DEPTH CHART  
PS-1.2 NO SCALE



4 TYPICAL WYE CONNECTION TO EXISTING SANITARY SEWER  
PS-1.2 NO SCALE



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FOR THE  
MERCER COUNTY COMMISSIONERS  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

CONSTRUCTION DETAILS

PLUMBING SITE

COMM. NO.  
4826  
DATE  
05/29/26

SHEET NO.  
**PS-1.2**  
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PLUMBING ABBREVIATIONS

AAV	AUTOMATIC AIR VENT ABOVE CEILING
AC	ABOVE FINISHED FLOOR AS HIGH AS POSSIBLE
AHP	AUTHORITY HAVING JURISDICTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BF	BELOW FLOOR
BS	BALANCING STATION
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	CEILING
CO	CLEAN OUT
COND	CONDENSATE
CONT	CONTINUATION
CO2	CARBON DIOXIDE
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CW	COLD WATER
DE	DEIONIZED WATER
DEG (°)	DEGREE
DI	DISTILLED WATER
DIA (Ø)	DIAMETER
DM	DEMOLISH
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EFF	EFFICIENCY
EL	ELEVATION
EOSC	EMERGENCY OXYGEN SUPPLY CONNECTION
EQUIP	EQUIPMENT
ETC	ETCETERA
ETP	ELECTRONIC TRAP PRIMER
EXIST	EXISTING
EXP	EXPANSION
F	FAHRENHEIT
FA	FROM ABOVE
FB	FROM BELOW
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FLR	FLOOR
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
PPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
FTG	FITTING
FSC	FOOD SERVICE CONTRACTOR
G	NATURAL GAS
GA	GAUGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HD	HEAD
HDR	HEADER
Hg	MERCURY
HP	HORSEPOWER
HORIZ	HORIZONTAL
HR	HOUR
HTG	HEATING
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	FREQUENCY (HERTZ)
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INSUL	INSULATION
IPS	INTERNATIONAL PIPE STANDARD

PLUMBING ABBREVIATIONS (CONT)

JT	JOINT
KW	KILOWATT
KWH	KILOWATT HOUR
LBS	POUNDS
LF	LINEAR FEET
LH	LATENT HEAT
LID	LIQUID
LTS	LIGHTING
LV	LAB VACUUM
MA	MEDICAL AIR
MAX	MAXIMUM
MBH	THOUSAND BTU'S
MC	MECHANICAL CONTRACTOR
MCF	THOUSAND CUBIC FEET
MFR	MANUFACTURER
MIN	MINIMUM
MH	MANHOLE
MTD	MOUNTED
MTR	MOTOR
N2	NITROGEN
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
N2O	NITROUS OXIDE
O2	OXYGEN
OD	OUTSIDE DIAMETER
OZ	OUNCES
%	PERCENT
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PG	PRESSURE GAUGE WITH COOK
PH	PHASE
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
QNTY	QUANTITY
RD	ROOF DRAIN
REV	REVOLUTIONS
REQD	REQUIRED
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RFS	REVOLUTIONS PER SECOND
RV	RELIEF VALVE
RWC	RAIN WATER CONDUCTOR
S	SECOND
SAN	SANITARY
SCFM	CFM AT STANDARD CONDITIONS
SCH	SCHEDULE
SG	SPECIFIC GRAVITY
SOV	SHUT-OFF VALVE
SPEC	SPECIFICATION
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
ST	STORM
STD	STANDARD
STR	STRAINER
SUCT	SUCTION
SW	SWITCH
TE	TOP ELEVATION
TEMP	TEMPORARY
TRANS	TRANSITION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLT OR VENT
VAC	VACUUM
VEL	VELOCITY
VFS	VENTURI
VOL	VOLUME
VTR	VENT THRU ROOF
W	WATT OR UNDERGROUND WATER
WAGD	WASTE ANESTHESIA GAS DISPOSAL
W	WITH
WC	WATER COLUMN
XR	EXISTING TO REMAIN

PLUMBING PIPING GENERAL NOTES

- ALL SANITARY PIPING BELOW SLAB SHALL BE A MINIMUM OF 4" Ø, UNLESS NOTED OR AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- ALL SANITARY AND STORM PIPING 2" AND SMALLER SHALL BE SLOPED AT A MINIMUM 1/4" PER FOOT, AND ALL SANITARY AND STORM PIPING 3" AND LARGER SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT, UNLESS OTHERWISE NOTED OR AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
- UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE OR SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
- INSTALL PIPING SO ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF THE VALVE IS REMOVED.
- ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND THE MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
- PROVIDE CHAINWHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FLOOR LEVEL; CHAIN SHALL EXTEND TO 7'-0" ABOVE FLOOR LEVEL.
- ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE THE FULL SIZE OF THE PIPE BEFORE REDUCING IN SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
- PROVIDE A LINE SIZE STRAINER UPSTREAM OF EACH AUTOMATIC VALVE. PROVIDE A SHUT-OFF VALVE ON EACH SIDE OF A STRAINER.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FT OR MORE) TO PERMIT DISASSEMBLY FOR ALTERNATION AND REPAIRS.
- INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
- PLUMBING CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL EQUIPMENT REQUIRING GAS, WATER, WASTE, VENT, AND/OR COMPRESSED AIR WHETHER OR NOT EQUIPMENT IS FURNISHED UNDER THIS CONTRACT. ALSO, PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, VALVES, TRAPS, ETC., REQUIRED FOR A COMPLETE INSTALLATION, LEAVING SAME READY FOR SERVICE.

PLUMBING PIPING ABBREVIATIONS

----- 140F -----	140F HOT WATER
----- 140F -----	140F HOT WATER RETURN
----- AV -----	ACID VENT
----- AW -----	ACID WASTE
----- CA -----	COMPRESSED AIR
----- LTO -----	DOMESTIC COLD WATER
----- -----	DOMESTIC HOT WATER
----- -----	DOMESTIC HOT WATER RETURN
----- G -----	GAS (NATURAL GAS)
----- LA -----	LAB AIR
----- LV -----	LAB VACUUM
----- RO -----	REVERSE OSMOSIS
----- PD-S -----	PUMP DISCHARGE - SANITARY
----- PD-ST -----	PUMP DISCHARGE - STORM
----- SAN -----	SANITARY
----- SAN-G -----	SANITARY - GREASE
----- ST-F -----	STORM - FOUNDATION
----- ST-P -----	STORM - PRIMARY
----- ST-S -----	STORM - SECONDARY
----- TW -----	TEMPERED WATER
----- W -----	UNDERGROUND WATER
----- -----	VENT

PLUMBING SYMBOLS

	UNION, SCREWED
	CAPPED PIPE
	PIPE ELBOW UP
	PIPE ELBOW DOWN
	PIPE TEE UP
	PIPE TEE DOWN
	CLEANOUT
	DIRECTION OF FLOW
	PIPE BREAK
	ISOLATION VALVE
	BALANCING VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	SAFETY OR RELIEF VALVE
	THERMOSTATIC MIXING VALVE
	SOLENOID VALVE
	NATURAL GAS COOK
	STRAINER
	PRESSURE / FLOW SWITCH
	WATER HAMMER ARRESTOR
	PRESSURE GAUGE WITH SHUT OFF COOK
	THERMOMETER WITH SEPARABLE WELL
	BALANCING STATION ASSEMBLY REFER TO DETAIL
	DUAL CHECK BACKFLOW PREVENTER REFER TO DETAIL
	REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER REFER TO DETAIL
	EXTERIOR WALL HYDRANT
	HOSE-BIBB
	HOT & COLD WATER HOSE-BIBB
	ROOF PENETRATION
	ROOF PENETRATION ON ROOF
	SITE CURB BOX
	FLOOR DRAIN (FD)
	FLOOR SINK (FS)
	FUNNEL FLOOR DRAIN (FFD)
	NUMBERED NOTE PER DRAWING
	EQUIPMENT BY OTHERS
	DISCONNECT POINT - EXTENT OF DEMOLITION
	CONNECTION POINT - NEW TO EXISTING
	REVISION SEQUENCE NUMBER

PLUMBING FIXTURE SCHEDULE				
ID #	PLUMBING FIXTURE DESCRIPTION	SANITARY, SOIL, & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES	NOTES
EW-2	WALL MOUNTED WATER COOLER SINGLE UNIT W/ BOTTLE FILLER - ADA HEIGHT	1 1/4" W & V	1/2" CW	NOTE 1
L-1	WALL MOUNTED LAVATORY WITH MANUAL FAUCET - ADA HEIGHT	1 1/2" W & V	1/2" HW & CW	NOTE 1
US-1	WALL MOUNTED UTILITY SINK	2" W & V	1/2" HW & CW	NOTE 1
WC-1	FLOOR MOUNTED WATER CLOSET WITH MANUAL FLUSH TANK - ADA HEIGHT	4" W & 2" V	1/2" CW	NOTE 1

- NOTES:
- REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, TRIM INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.
  - PROVIDE POINT-OF-USE MIXING VALVE ON SUPPLY PIPING TO FIXTURE. REFER TO DETAIL AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLUMBING DRAIN SCHEDULE				
ID #	PLUMBING FIXTURE DESCRIPTION	DRAINAGE & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES	NOTES
FD-1	FLOOR DRAIN FOR FINISHED AREAS	4" W	1/2" TP CONNECTION	NOTE 1
TD-1	6" WIDE TRENCH DRAIN	4" W	1/2" TP CONNECTION	NOTE 1

- NOTES:
- REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.

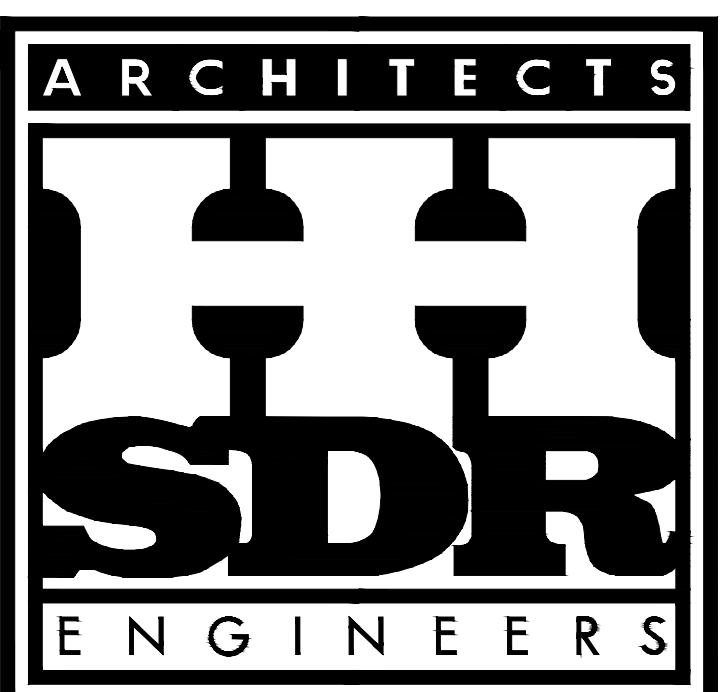
THERMOSTATIC MIXING VALVE SCHEDULE							
ID #	LOCATION	CONNECTION SIZE		INLET TEMPERATURE	OUTLET TEMPERATURE	TEMPERATURE DROP	REMARKS
		INLETS	OUTLET				
TMV-2	GROUP OF FIXTURE(S)	1/2"	1/2"	125° F	105° F	20° F	NOTES 1, 2

- NOTES:
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - MIXING VALVE SHALL BE ACCESSIBLE ABOVE CEILING WHERE NOTED ON THE DRAWINGS. REFER TO POINT-OF-USE MIXING VALVE PIPING SCHEMATIC.

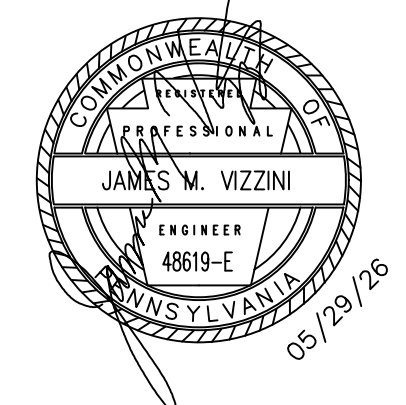
DOMESTIC WATER HEATER SCHEDULE							
ID #	TYPE	STORAGE CAPACITY	FUEL	INPUT kW / MBH	RECOVERY RATE	ELECTRICAL INFO	REMARKS
EWH-1	POINT-OF-USE	---	ELECTRIC	2.4	-	33" AT 5 GPM	NOTE 1, 3
DWH-1	TANK	50 GALLONS	NATURAL GAS	-	40	41 GPH @ 90° RISE	NOTES 1, 2

- NOTES:
- REFER TO PIPING SCHEMATIC FOR MIXING VALVE, CIRCULATING PUMP, AND PIPE CONNECTION SIZES.
  - WATER HEATER DISCHARGE TEMPERATURE SHALL BE SET AT 125°.
  - BASIS OF DESIGN IS EEMAX SPEX2412 FLOWCO ELECTRIC TANKLESS WATER HEATER WITH 20 AMP LOAD.

NOTES



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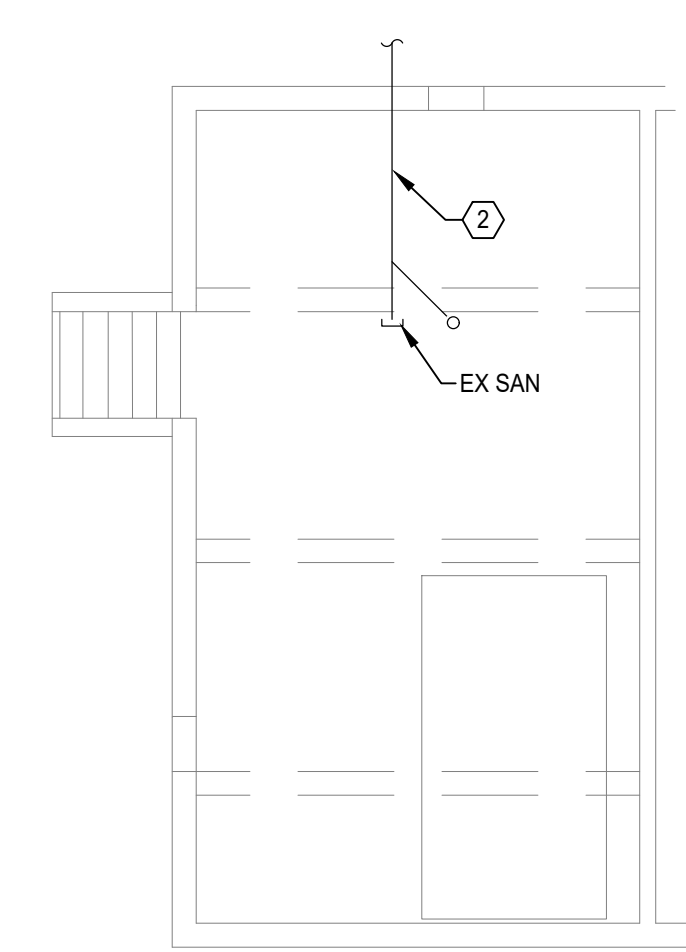
MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM  
41 MUNNELL RUN LANE  
MERCER, PA 16137

FOR THE  
MERCER COUNTY COMMISSIONERS  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

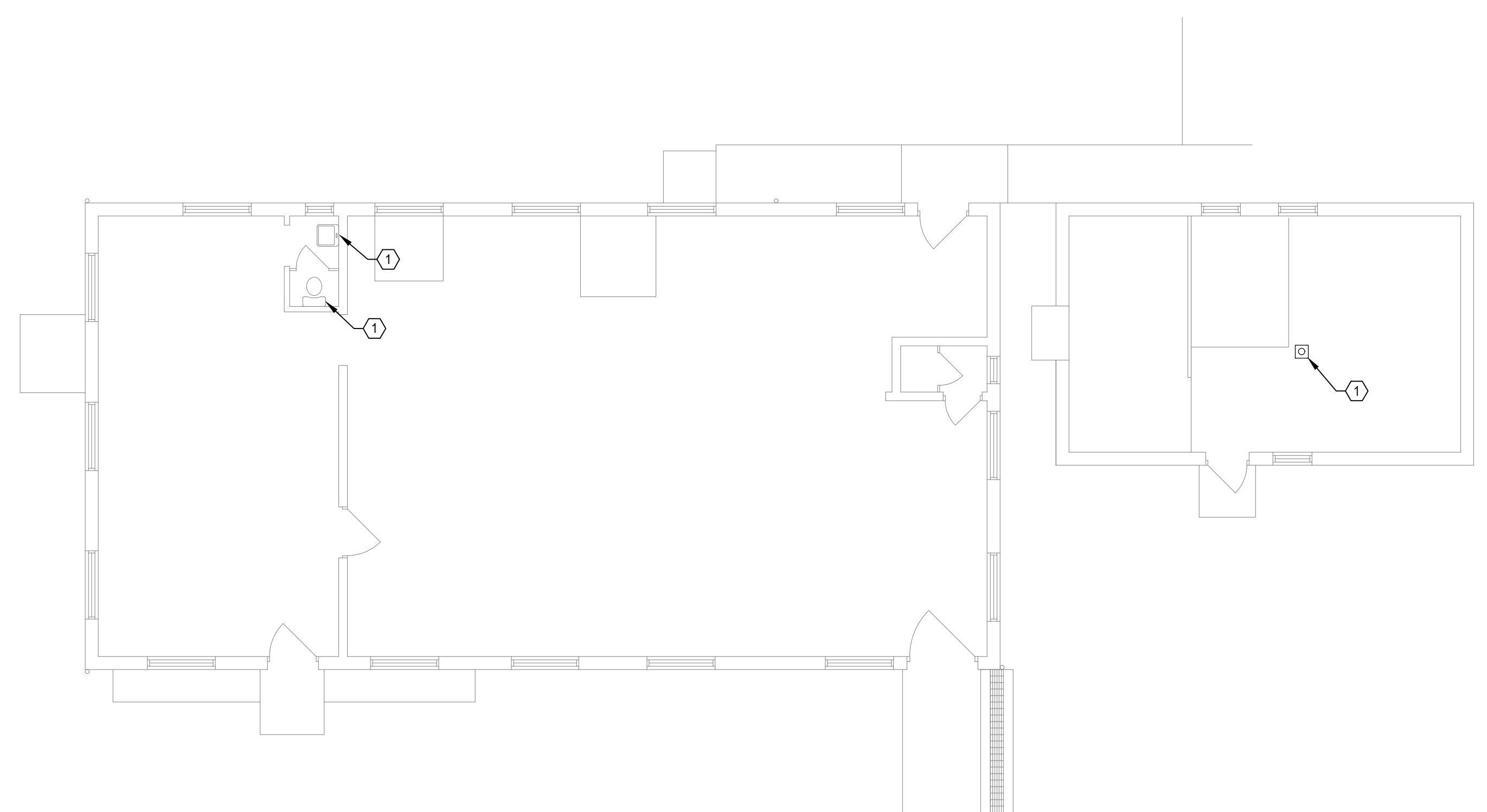
PLUMBING COVER SHEET

REVISIONS

NOTES



**BASEMENT - DEMOLITION PLAN** 1  
 1/8"=1'-0" PD-1.1



**MAIN LEVEL - DEMOLITION PLAN** 2  
 1/8"=1'-0" PD-1.1

**GENERAL NOTES**

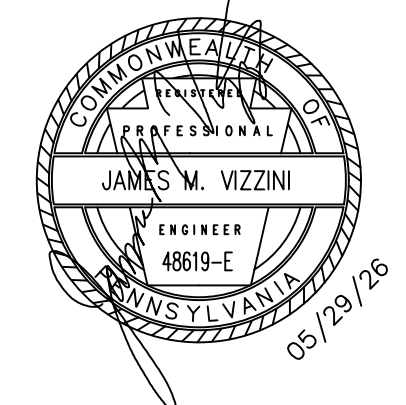
1. VERIFY EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPING AND EQUIPMENT, IN FIELD, PRIOR TO START OF WORK.

**NUMBERED NOTES**

- ① DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE IN ITS ENTIRETY INCLUDING ALL PIPING EXPOSED BY DEMOLITION.
- ② DISCONNECT AND REMOVE EXISTING SANITARY PIPING, THIS LOCATION, IN ITS ENTIRETY. CAP EXISTING PIPING BELOW GRADE. REMAINING BELOW GRADE PIPING TO BE ABANDONED IN PLACE.



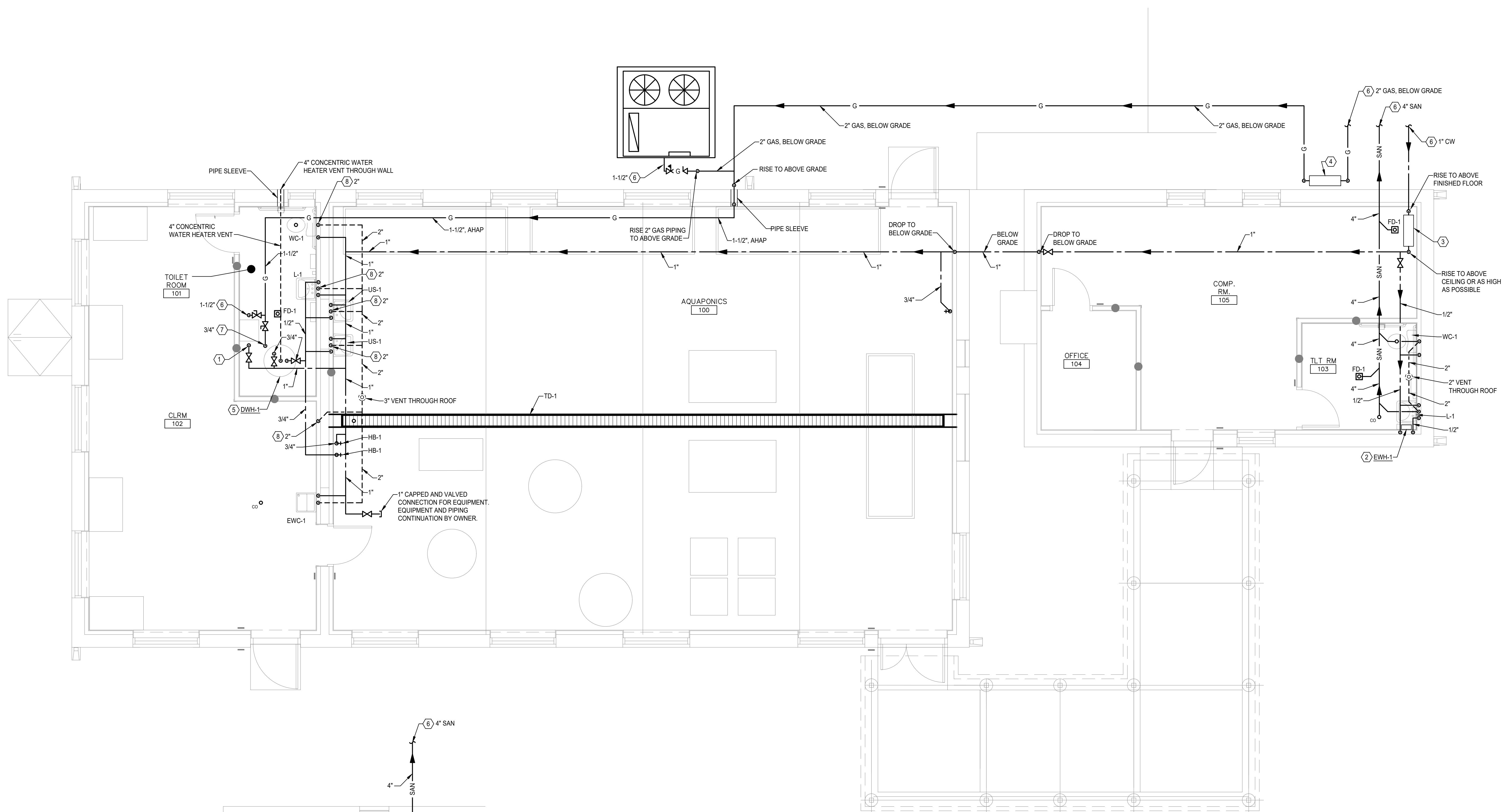
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**DEMOLITION PLANS - PLUMBING**

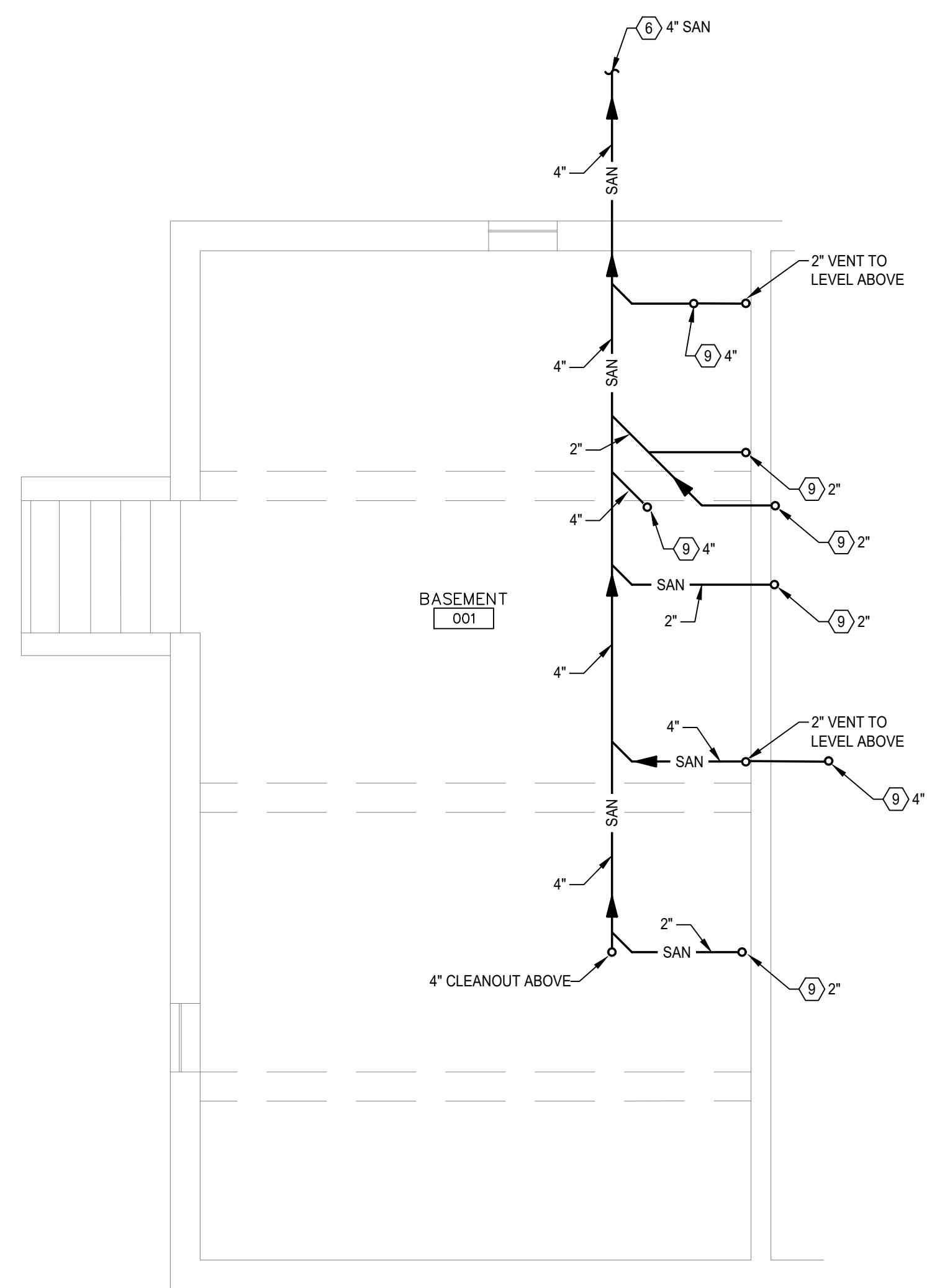


**GENERAL NOTES**

1. VERIFY EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPING AND EQUIPMENT, IN FIELD, PRIOR TO START OF WORK.
2. ALL DOMESTIC WATER, VENT, AND GAS PIPING SHALL BE ABOVE CEILING OR AS HIGH AS POSSIBLE, UNLESS NOTED OTHERWISE.
3. ALL WASTE PIPING SHALL BE BELOW FLOOR OR AS LOW AS POSSIBLE, UNLESS NOTED OTHERWISE.
4. ALL EXISTING PLUMBING FIXTURES AND EQUIPMENT SHALL BE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.

**NUMBERED NOTES**

1. PROVIDE CAPPED COLD WATER MAKE-UP LINE, OF SIZE NOTED, EQUIPPED WITH RPZ BACKFLOW PREVENTER AND BALL VALVE ON INLET AND OUTLET, TO MECHANICAL EQUIPMENT. EXTENSION BY HVAC CONTRACTOR.
2. PROVIDE WALL MOUNTED POINT OF USE ELECTRIC WATER HEATER FOR NEARBY PLUMBING FIXTURE, THIS LOCATION. DISTRIBUTION PIPING TO NEARBY PLUMBING FIXTURE SHALL BE RACKED ON WALL BELOW FIXTURE LEVEL. COORDINATE ELECTRICAL REQUIREMENTS WITH EC PRIOR TO WORK. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
3. RISE DOMESTIC WATER SERVICE PIPING FROM BELOW GRADE, OF SIZE NOTED, TO WATER METERING SERVICE, THIS LOCATION. COORDINATE ALL WORK WITH LOCAL AUTHORITY HAVING JURISDICTION.
4. NEW NATURAL GAS SERVICE, THIS AREA. COORDINATE ALL WORK W/ UTILITY PROVIDER. BUILDING TOTAL BUILDING LOAD IS 380 MBH.
5. PROVIDE GAS FIRED DOMESTIC WATER HEATER, THIS LOCATION. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.  
SEE SITE PLAN FOR PIPING CONTINUATION OF BELOW GRADE PIPING.
6. EXTEND NATURAL GAS PIPING, OF SIZE NOTED, TO GAS FIRED MECHANICAL EQUIPMENT, BY HC. THIS LOCATION. PROVIDE SHUT-OFF VALVE AND PRESSURE REGULATOR, EXTEND REGULATOR RELIEF PIPING TO EXTERIOR. SET REGULATOR TO MANUFACTURERS RECOMMENDED PRESSURE. COORDINATE TIE-IN WITH HC, PRIOR TO START.
7. EXTEND NATURAL GAS PIPING, OF SIZE NOTED, TO GAS FIRED DOMESTIC WATER HEATER, THIS LOCATION. PROVIDE SHUT-OFF VALVE AND PRESSURE REGULATOR, EXTEND REGULATOR RELIEF PIPING TO EXTERIOR. SET REGULATOR TO MANUFACTURERS RECOMMENDED PRESSURE.
8. VENT PIPING, OF SIZE NOTED, FROM BELOW FLOOR TO ABOVE CEILING, THIS AREA.
9. SANITARY PIPING, OF SIZE NOTED, FROM PLUMBING FIXTURE ABOVE. PIPING SHALL CONTINUE AS HIGH AS POSSIBLE, THIS AREA.



**BASEMENT PLAN - PLUMBING**

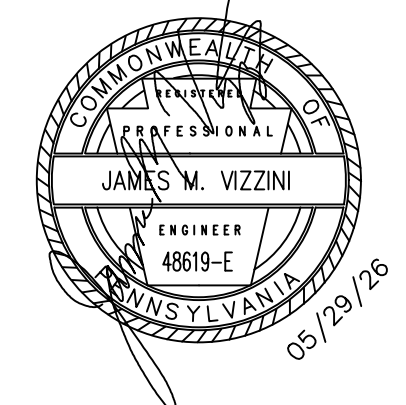
1/4" = 1'-0"

**MAIN LEVEL FLOOR PLAN - PLUMBING**

1/4" = 1'-0"



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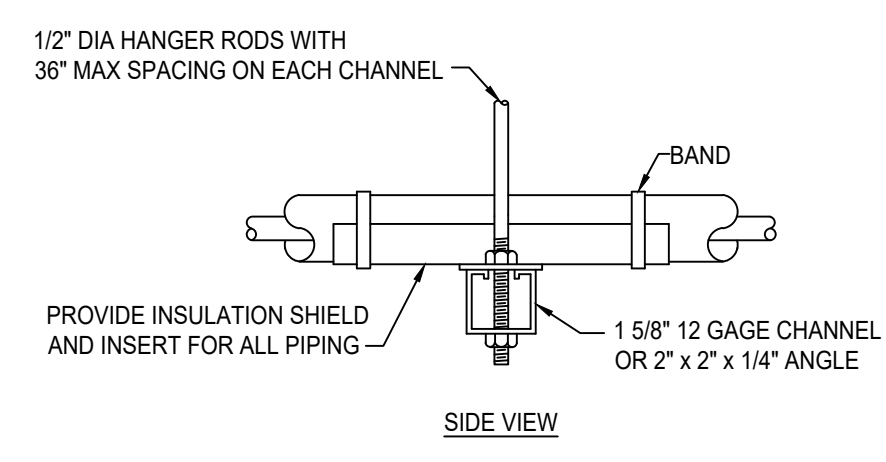
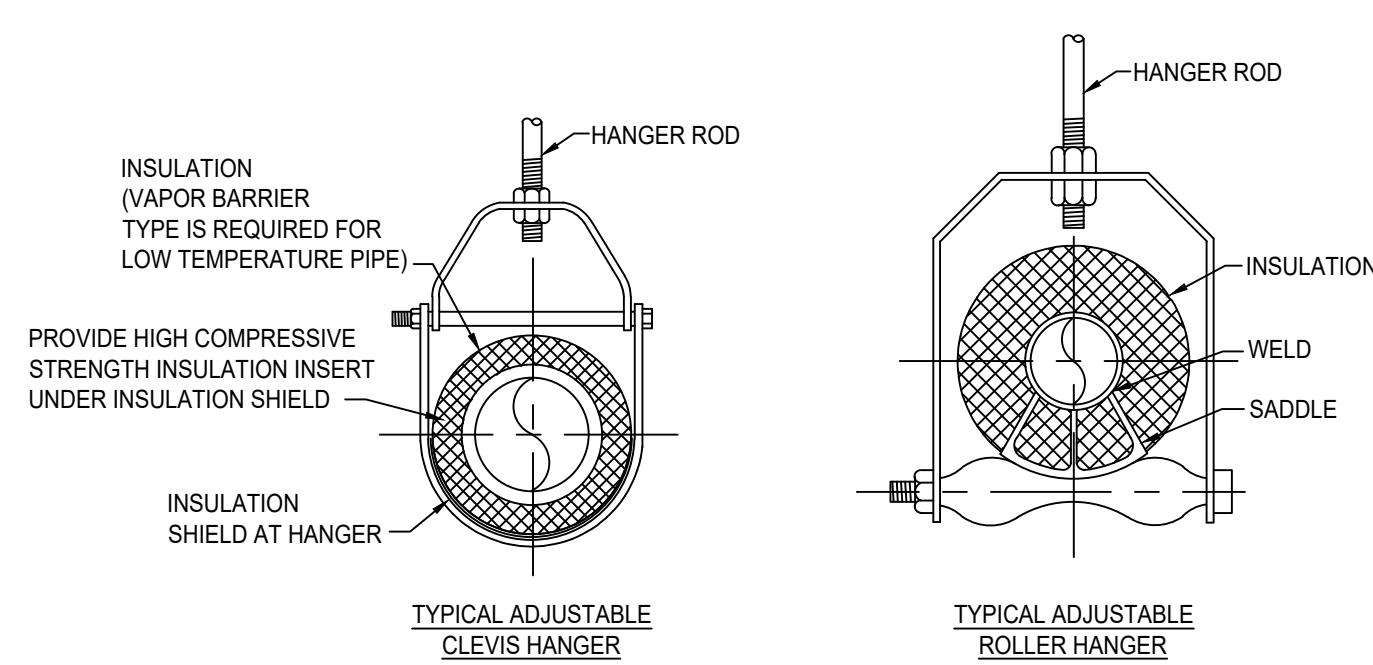
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**FLOOR PLANS - PLUMBING**

COMM. NO.  
4826  
DATE  
05/29/26

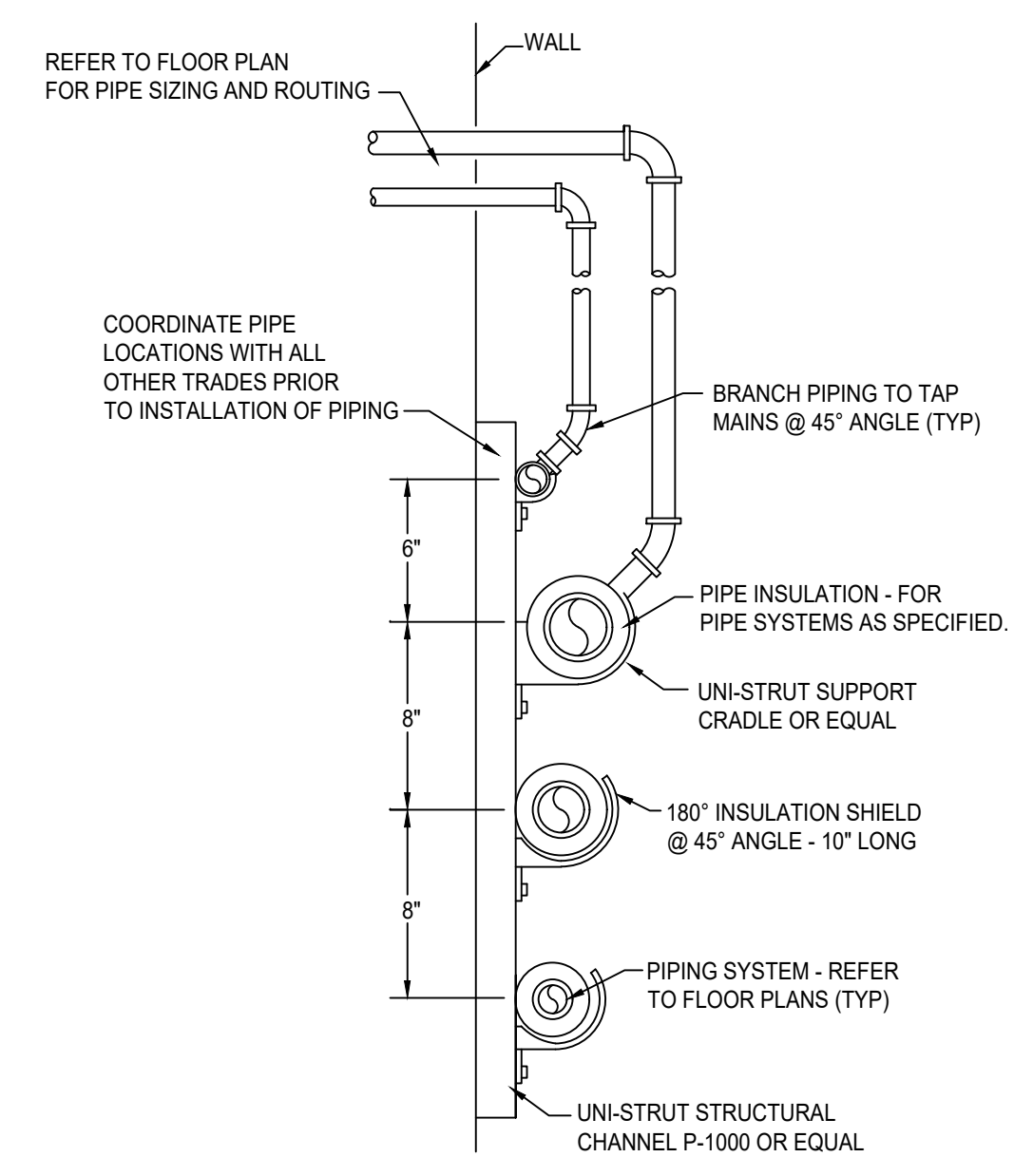
SHEET NO.  
**P-1.1**  
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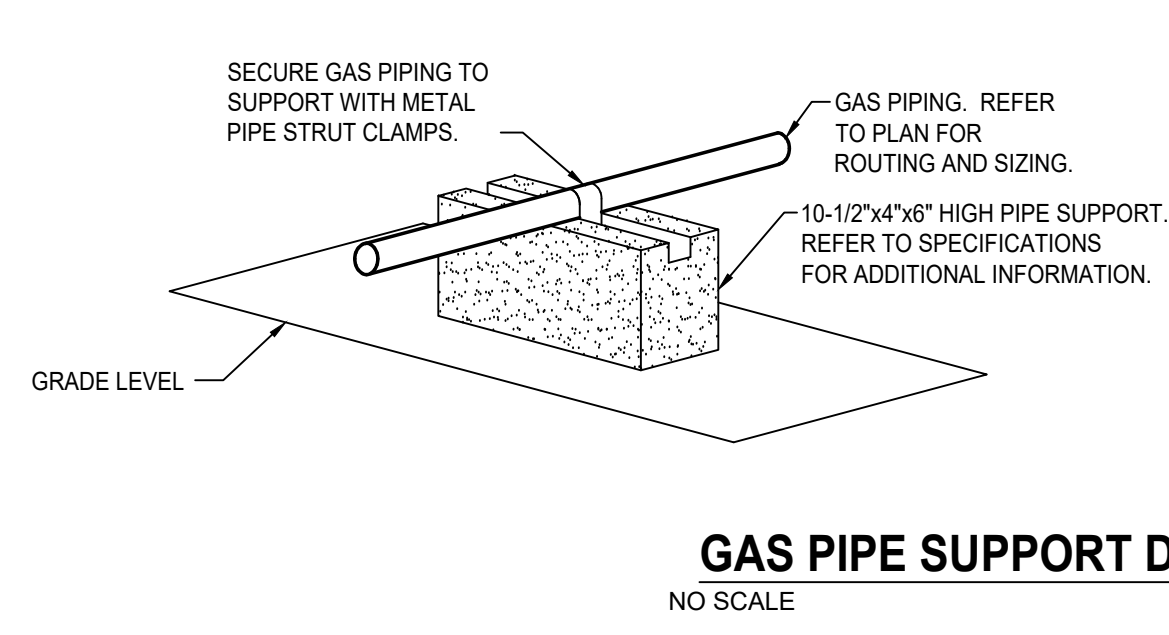
MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET											
NOM. SIZE	THRU 3/4"	1	1 1/4"	1 1/2"	2	2 1/2"	3	4	6	8	10
PIPE	7 FT	7	7	9	10	11	12	14	16	17	22
TUBING	5 FT	6	7	8	8	9	10	12	13	14	16

NOTE: FOR TRAPEZE HANGER TAKE PAGING OF SMALLEST SIZE OF TRAPEZE.

**HORIZONTAL PIPE HANGER AND SUPPORT DETAIL**  
NO SCALE

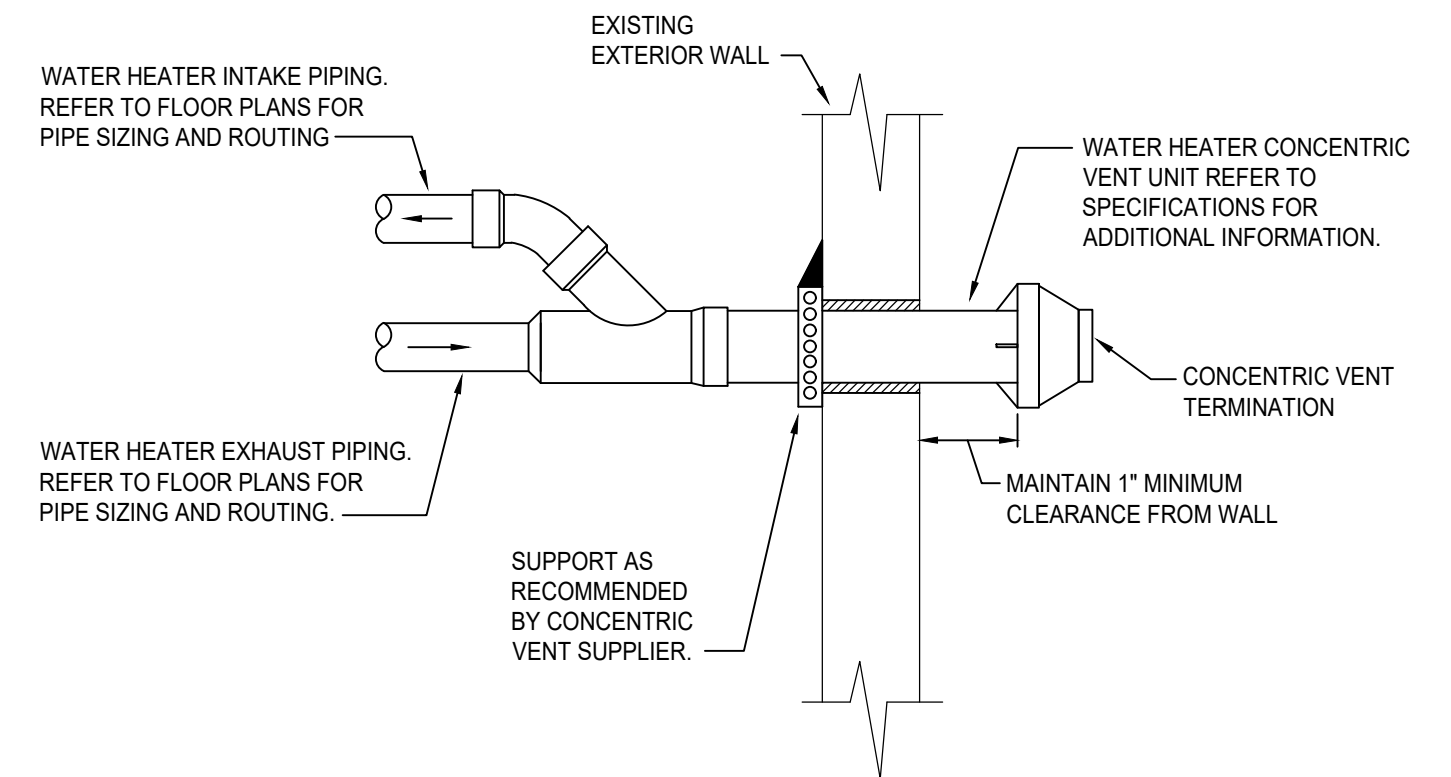


**VERTICAL PIPE HANGER AND SUPPORT DETAIL**  
NO SCALE

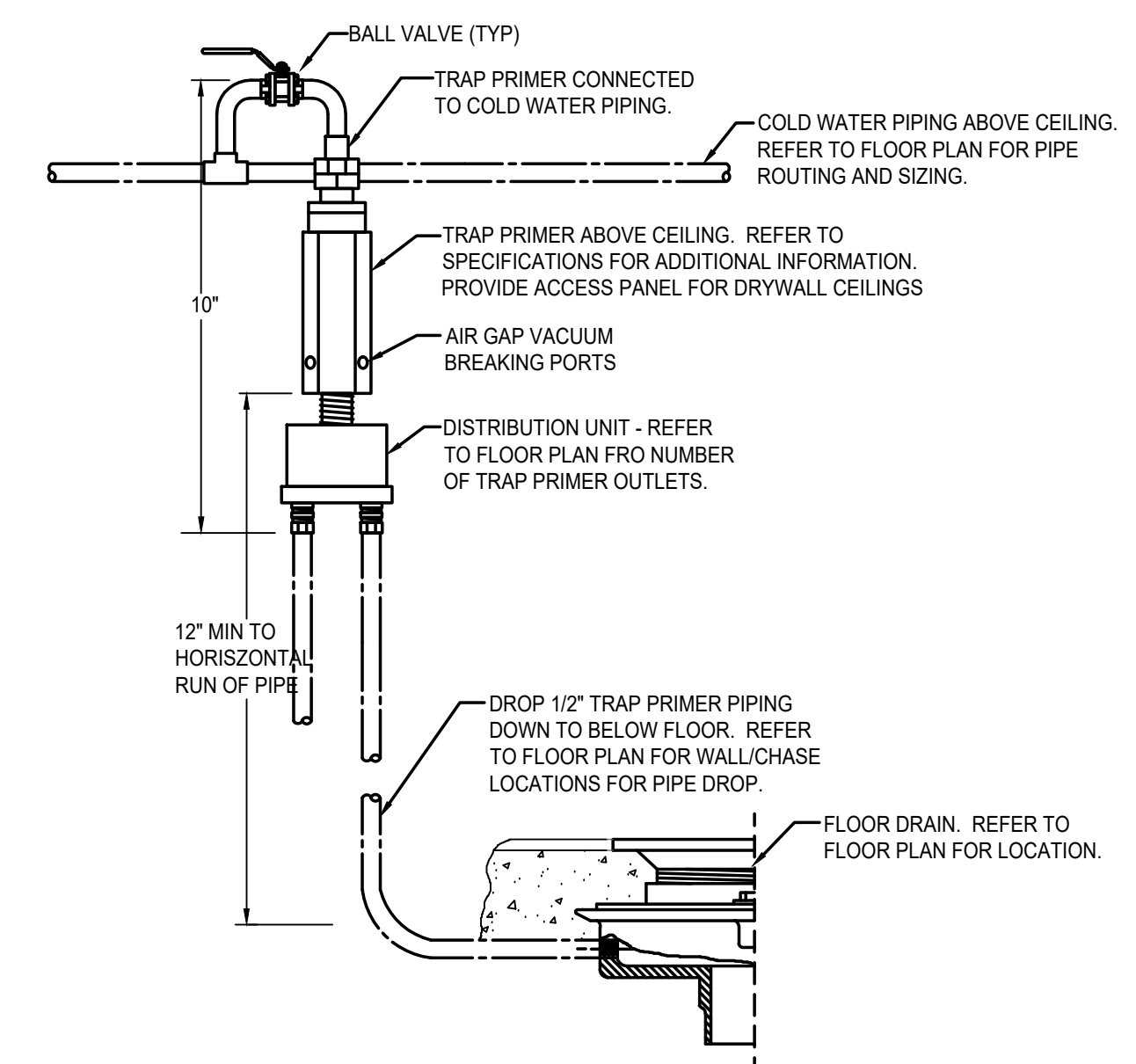


- NOTES:**
- ALL SUPPORTS, SUPPORT HARDWARE, BOLTING, SPACING, ETC. AS PER MANUFACTURERS' RECOMMENDATIONS.
  - SPACING OF PIPE SUPPORTS SHALL BE BASED UPON SIZE OF PIPE TO BE SUPPORTED.
    - FOR GAS PIPING LESS THAN OR EQUAL TO 1", SUPPORTS SHALL BE SPACED 8'-0" ON CENTER.
    - FOR GAS PIPING GREATER THAN 1", SUPPORTS SHALL BE SPACED 10'-0" ON CENTER.
  - WHERE APPLICABLE, CONTRACTOR SHALL CLEAR SPACE OF GRAVEL, ETC., FOR INSTALLATION OF SUPPORT.

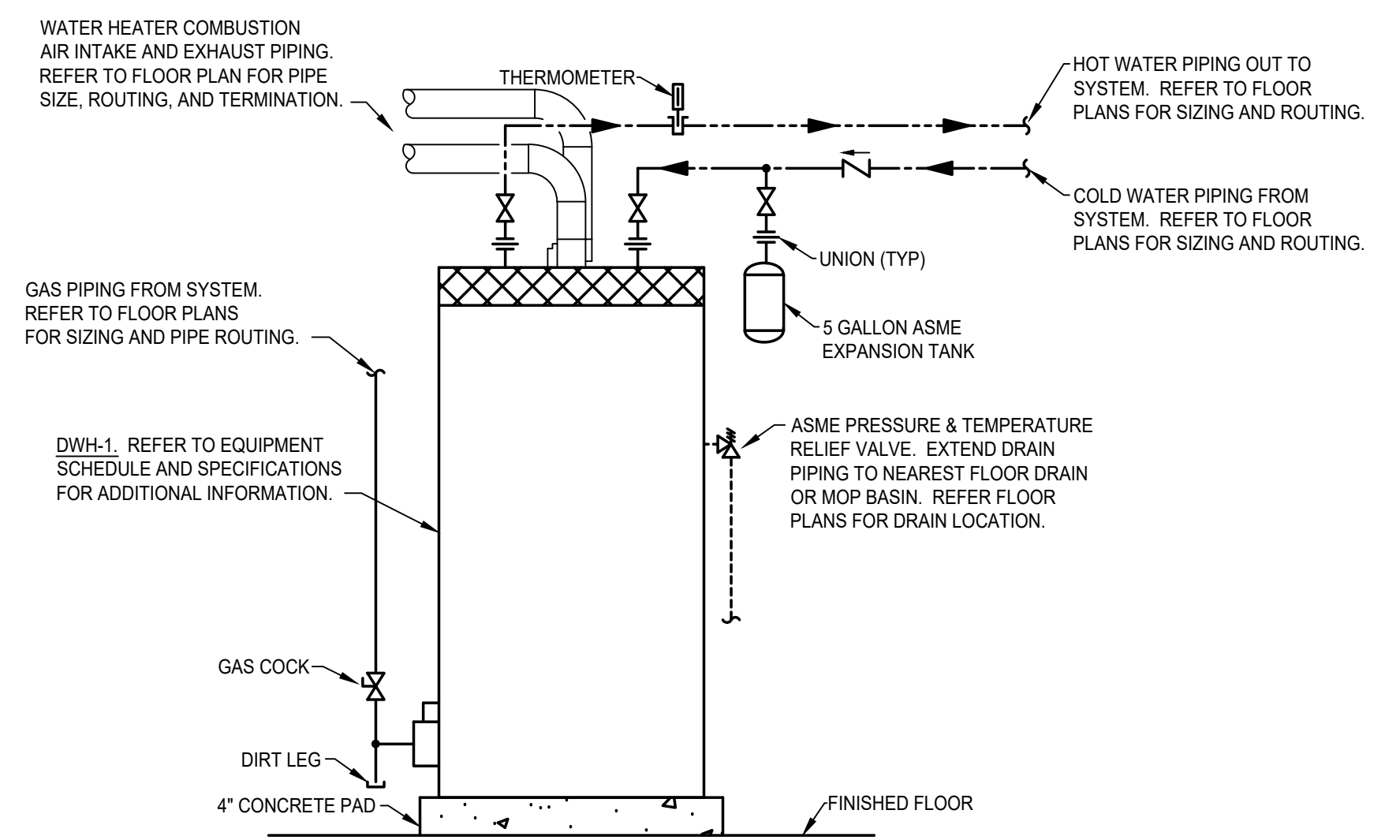
**GAS PIPE SUPPORT DETAIL**  
NO SCALE



**WATER HEATER CONCENTRIC VENT DETAIL**  
NO SCALE

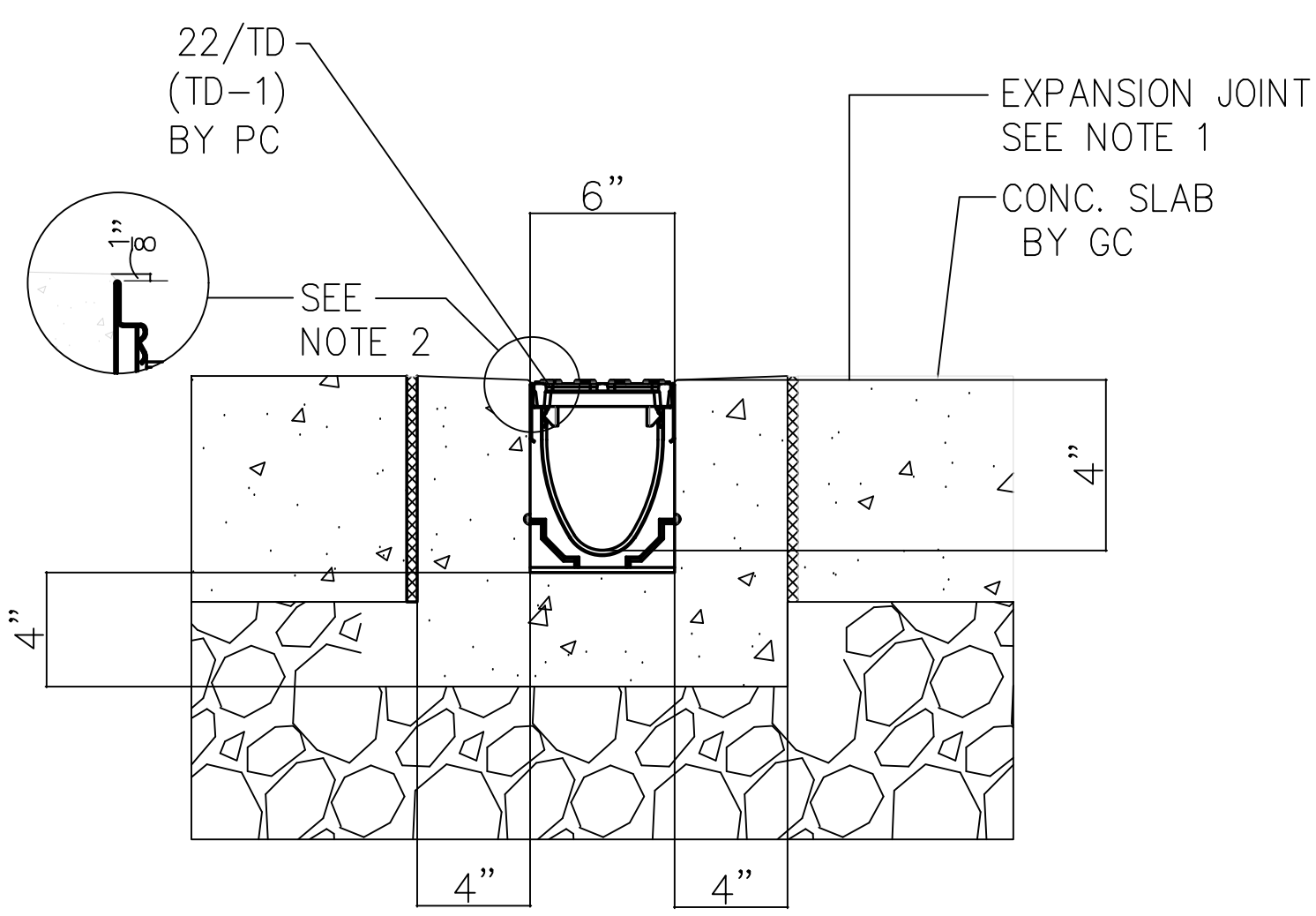


**TRAP PRIMER PIPING SCHEMATIC**  
NO SCALE



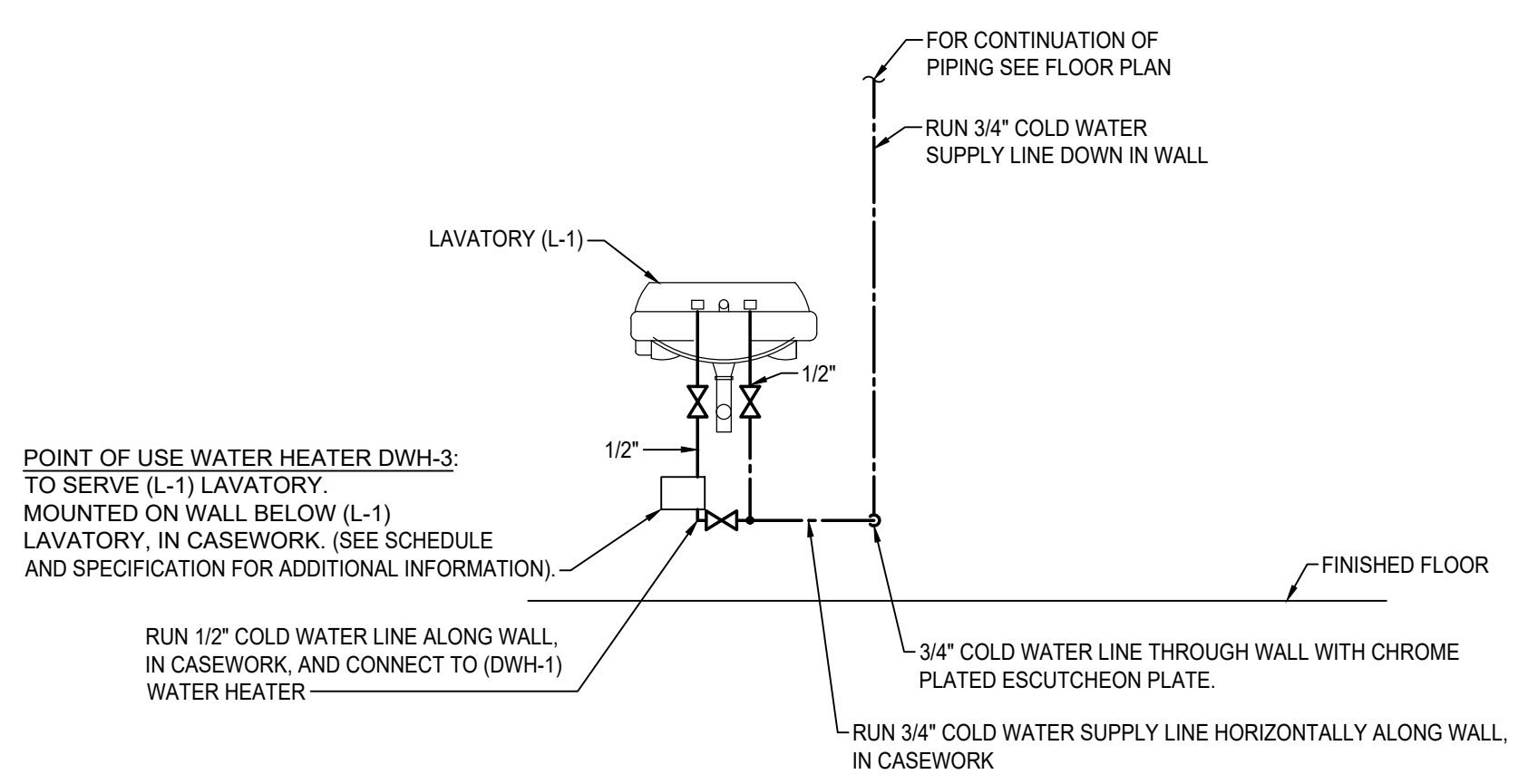
**GAS-FIRED WATER HEATER PIPING SCHEMATIC**  
NO SCALE

X1 AUTOCAD/DETAILS/PLUMBING/PD-002 A

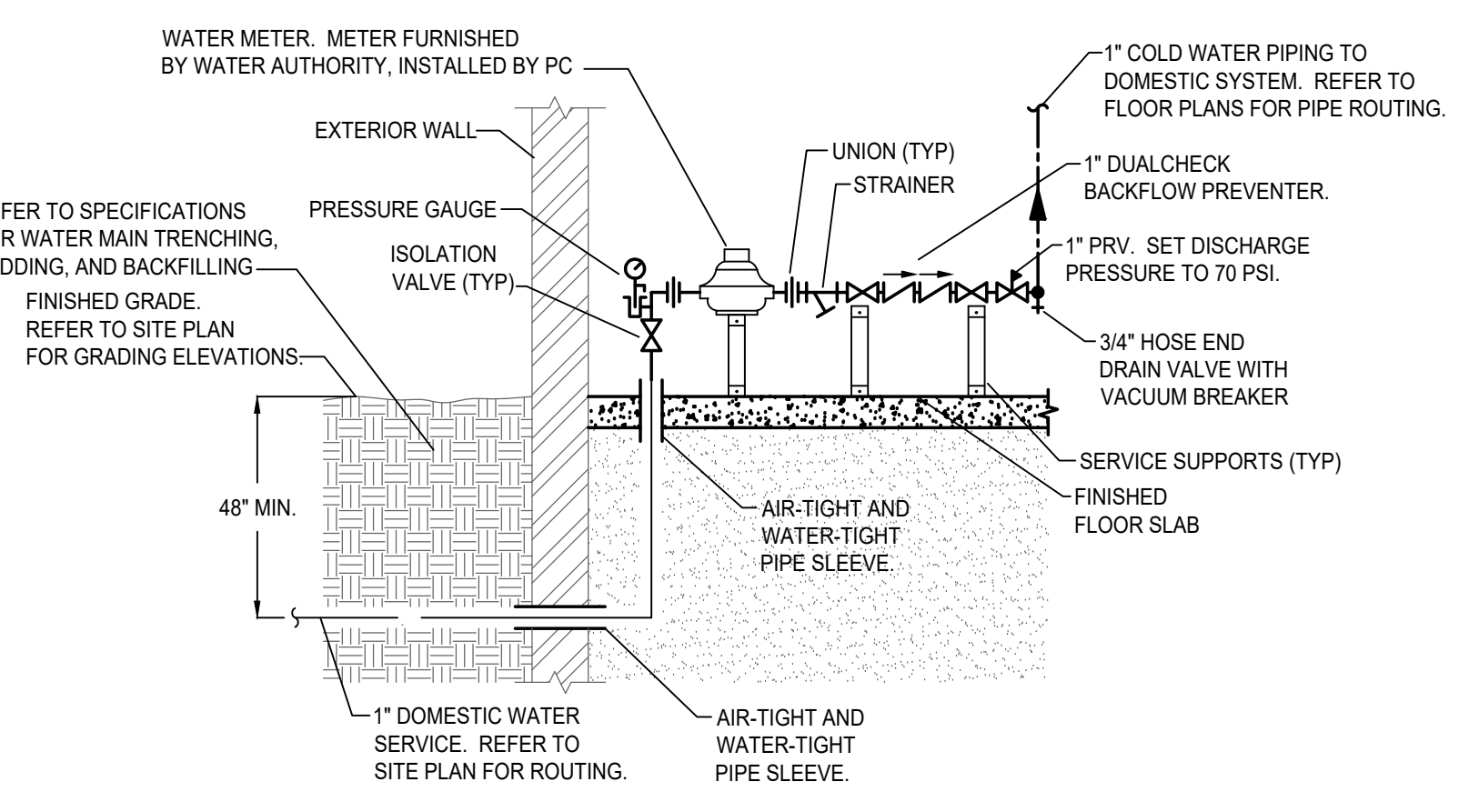


- NOTES:**
- EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMEND TO PROTECT CHANNEL AND CONCRETE SURROUND.
  - THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
  - PC SHALL COORDINATE ALL WORK WITH G.C.

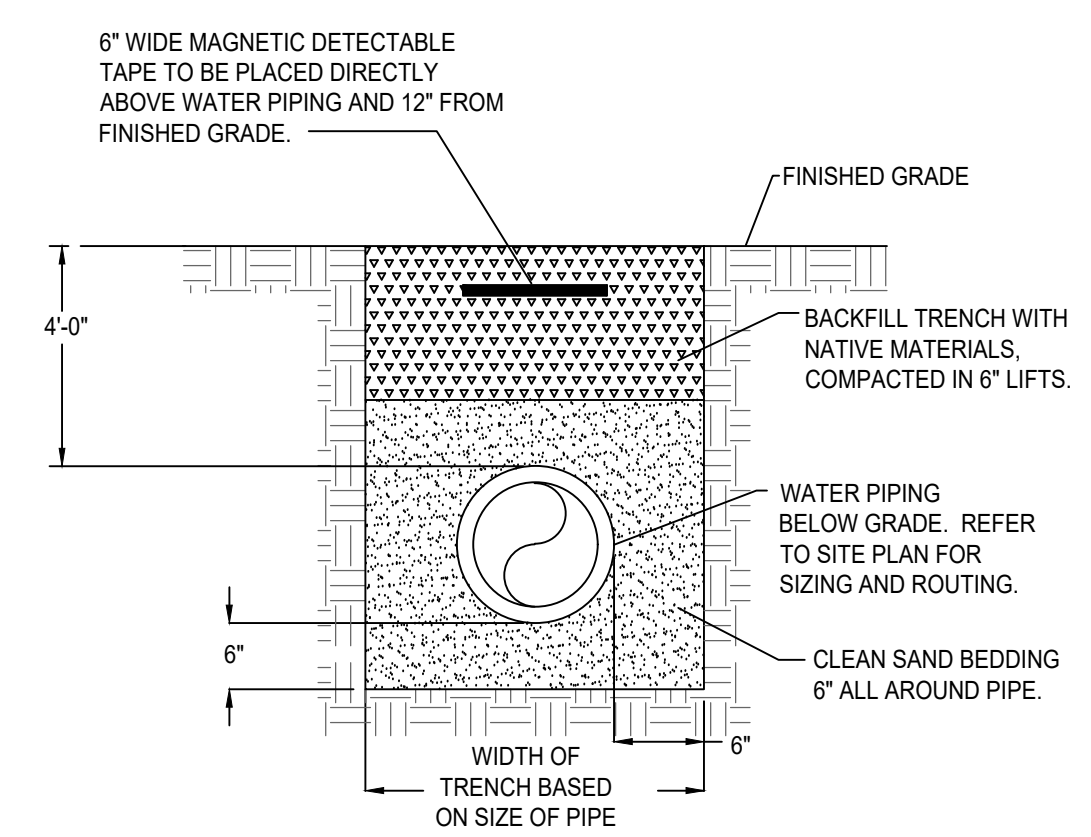
**TRENCH DRAIN INSTALLATION DETAIL**  
NO SCALE



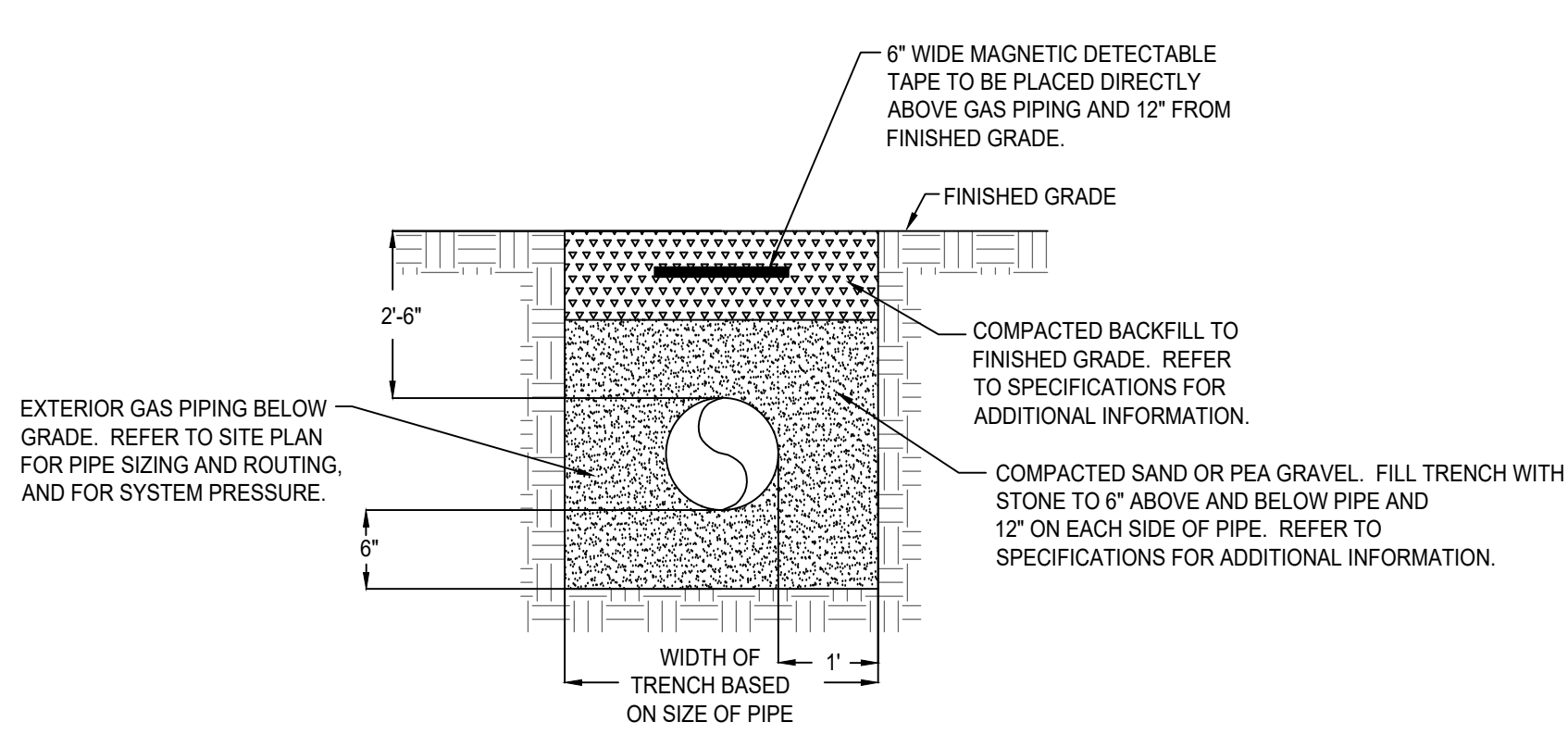
**POINT OF USE WATER HEATER SCHEMATIC (DWH-3)**  
NO SCALE



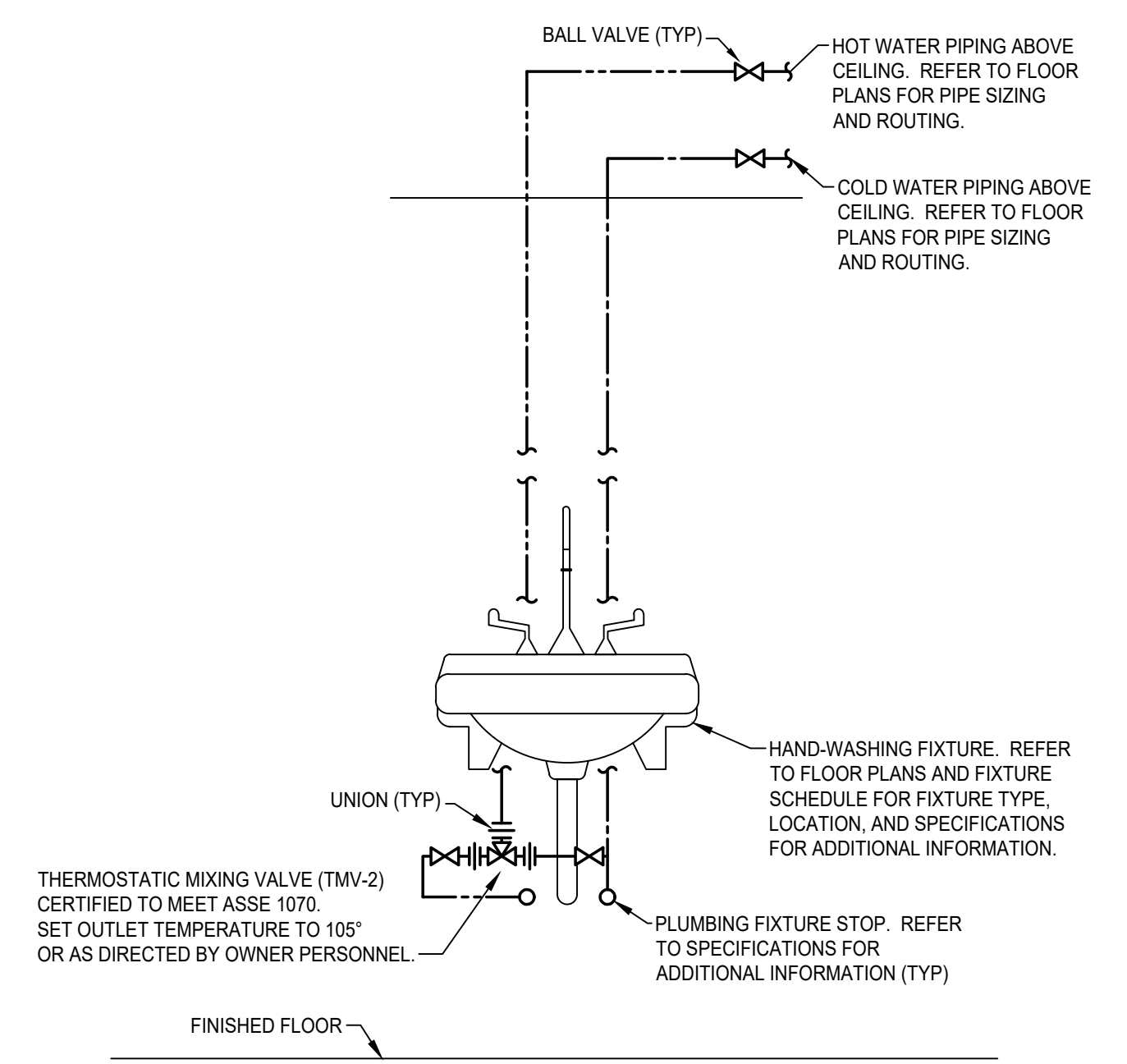
**DOMESTIC WATER SERVICE PIPING SCHEMATIC**  
NO SCALE



**EXTERIOR WATER PIPING DETAIL**  
NO SCALE



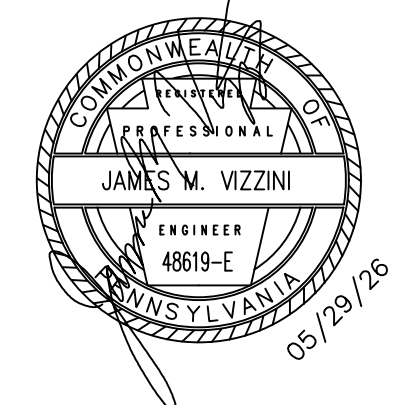
**EXTERIOR GAS PIPING BEDDING DETAIL**  
NO SCALE



**FIXTURE THERMOSTATIC MIXING VALVE PIPING SCHEMATIC**  
NO SCALE



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125 SOUTH DIAMOND STREET  
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**PLUMBING DETAILS**

## ELECTRICAL DRAWING LIST

E-001	ELECTRICAL COVER SHEET SYMBOLS AND NOTES
E-001	ELECTRICAL SINGLE LINE DIAGRAM
E-002	ELECTRICAL SCHEDULES AND DETAILS
ED101	ELECTRICAL DEMOLITION PLAN
E-101	ELECTRICAL LIGHTING PLAN
E-102	ELECTRICAL POWER AND SYSTEMS PLAN
E-103	ELECTRICAL SITE REFERENCE PLAN

## ELECTRICAL DEMOLITION NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE ORDINANCES, CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
- WHERE A CONFLICT ARISES BETWEEN PLANS, SPECIFICATIONS, DETAILS, SCHEDULES, APPLICABLE CODES OR REGULATIONS, THE MOST STRINGENT SHALL APPLY.
- THESE DRAWINGS ARE INTENDED TO CONVEY ONLY THE GENERAL SCOPE OF DEMOLITION WORK REQUIRED. CONTRACTOR IS RESPONSIBLE FOR PRE-BID FIELD VERIFICATION OF ALL EXISTING DIMENSIONS AND CONDITIONS INCLUDING BUILDING MATERIALS, CONFIGURATIONS AND QUANTITIES OF ITEMS TO BE REMOVED.
- WHERE A CONTRACTOR ENCOUNTERS OR UNCOVERS CONDITIONS NOT VISIBLE OR INDICATED ON PLANS OR SPECIFIED, HE SHALL NOTIFY THE OWNER'S PROJECT MANAGER PRIOR TO PROCEEDING WITH ANY WORK. FAILURE TO NOTIFY THE OWNER WILL MAKE THE CONTRACTOR RESPONSIBLE FOR ALL COSTS AND CONSEQUENCES OF SUCH FAILURE.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER'S PROJECT MANAGER PRIOR TO, AND FOR, SCHEDULING ANY INTERRUPTION OF ANY BUILDING UTILITY. MAINTAIN EMERGENCY LIGHTING AT ALL TIMES.
- ANY UNIDENTIFIED CONCEALED WIRING AND/OR CONDUIT ENCOUNTERED DURING DEMOLITION WILL NOT BE REMOVED UNTIL IT IS DETERMINED BY DEMOLITION CONTRACTOR THAT IT DOES NOT SERVE AREAS WHICH MUST OR ARE INTENDED TO REMAIN IN OPERATION. IF WIRING AND/OR CONDUIT ENCOUNTERED SERVES SUCH AREAS, IT WILL BE TEMPORARILY SUPPORTED AND MAINTAINED IN SAFE AND COMPLETE OPERATION. DEMOLITION CONTRACTOR SHALL FURNISH AND INSTALL NECESSARY SUPPORTS, SHORING, BRACING, ETC., TO MAINTAIN CONTINUITY OF EXISTING ELECTRICAL, TELEPHONE, FIRE ALARM, SECURITY AND ALL OTHER SERVICES TO OTHER AREAS WHICH WILL BE OPERATED DURING DEMOLITION PROCESS. IF, FOR ANY REASON, SAID UTILITIES ARE TO BE DISCONNECTED IN ANY WAY, CONTRACTOR WILL SCHEDULE A MEETING WITH ALL PARTIES INVOLVED SO THAT DETERMINATION CAN BE MADE AS TO WHEN THIS DISCONNECT CAN OCCUR TO MINIMIZE DOWNTIME.
- ALL EQUIPMENT IN AND BUILDING SERVICES TO CRITICAL EQUIPMENT SHALL REMAIN AND BE MAINTAINED IN SERVICE UNLESS SPECIFICALLY INDICATED OTHERWISE. THIS INCLUDES ANY PORTION OF THE EXISTING FIRE DETECTION SYSTEMS SERVING THIS BUILDING.
- CONTRACTOR SHALL REMOVE DEBRIS, RUBBISH AND OTHER MATERIALS AND LAWFULLY DISPOSE OF OFF SITE.
- THE CONTRACTOR SHALL PROVIDE ALL DEMOLITION OF EXISTING ELECTRICAL SYSTEMS INDICATED ON THESE DRAWINGS AND PROVIDE ANY CONNECTIONS REQUIRED TO MAINTAIN THE PROPER OPERATION OF THOSE SYSTEMS USING PERSONNEL QUALIFIED AND EXPERIENCED IN EACH RESPECTIVE TRADE AFFECTED.
- REMOVE ALL INDICATED DEVICES IN WALLS AND IN ALL COLUMNS INCLUDING DEVICES, COVER PLATES, WIRING AND CONDUIT ABOVE CEILING LINE, BACK TO ASSOCIATED PANELBOARD, TELEPHONE BOARD OR DATA ROOM TERMINATION POINT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND STORAGE OF ANY BUILDING COMPONENTS INCLUDING CEILING TILE AND TEES THAT MAY NEED REMOVED TO PROVIDE ACCESS TO CONCEALED DEVICES SUCH AS PULL BOXES.
- NOT ALL PORTIONS OF THE RESPECTIVE ELECTRICAL SYSTEMS TO BE REMOVED HAVE BEEN INDICATED. THOSE PORTIONS NOT INDICATED OR NOTED BUT ARE REQUIRED TO BE REMOVED TO COMPLETE THE REMOVAL SHALL BE INCLUDED BY THE CONTRACTOR.

### DEVICE MOUNTING HEIGHT SCHEDULE

GENERAL PURPOSE DUPLEX RECEPTACLES/ MULTIMEDIA OUTLETS	1'-6" ABOVE FINISHED FLOOR (AFF)
ABOVE COUNTER (AC) DEVICES	3'-6" ABOVE FINISHED FLOOR (AFF) OR 8" ABOVE WORK SURFACE COORDINATE WITH OWNER/FACILITIES MANAGEMENT
REFRIGERATOR RECEPTACLES	4'-0" ABOVE FINISHED FLOOR (AFF)
GFCI RECEPTACLES	4'-0" ABOVE FINISHED FLOOR (AFF) (UNLESS OTHERWISE NOTED)
WALL LIGHTING CONTROLS/ WALL MOUNTED TELEPHONE OUTLETS	4'-0" ABOVE FINISHED FLOOR (AFF) (UNLESS OTHERWISE NOTED)

NOTE: ALL DEVICE HEIGHTS NOTED ARE TO CENTER OF DEVICE

## GENERAL NOTES

- COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS WITH SPRINKLER PIPING, DUCTWORK, AND PARTITION LAYOUT AS REQUIRED.
- WORK PROVIDED UNDER THIS DIVISION IS TO BE COMPLETED IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE ORDINANCES, CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. WHERE A CONFLICT ARISES BETWEEN PLANS, SPECIFICATIONS, DETAILS, SCHEDULES, APPLICABLE CODES OR REGULATIONS, THE MOST STRINGENT SHALL APPLY. SUBMIT CONFLICTS TO THE PROFESSIONAL FOR FINAL DETERMINATION. PROVIDE OWNER WITH CERTIFICATES OF INSPECTION.
- PROVIDE ALL NECESSARY CUTTING AND PATCHING.
- THESE DRAWINGS INDICATE THE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. COORDINATE WITH BUILDING CONDITIONS FOR LOCATIONS, HEIGHT, DOOR SWINGS, MOUNTING HEIGHTS, ETC.
- IT IS THE INTENT OF THESE DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. THE WORD PROVIDE MEANS "FURNISH AND INSTALL COMPLETE AND READY FOR USE". COORDINATE EXACT LOCATION OF DEVICES AND ELECTRICAL SERVICE REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO INSTALLATION.
- COORDINATE THE WORK OF ALL TRADES PRIOR TO STARTING ANY WORK, PURCHASING ANY EQUIPMENT, ETC.
- ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED.
- RE-INSTALL ANY MATERIAL THAT WAS REMOVED OR RELOCATED INCLUDING CEILING COMPONENTS AND CASEWORK. ANY MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE REPLACED / REPAIRED BY THE CONTRACTOR AND SHALL MATCH THE EXISTING CONDITIONS.
- CONFIRM LOCATIONS OF ALL ELECTRICAL DEVICES WITH EQUIPMENT LOCATIONS PRIOR TO ROUGH-IN.
- VERIFY ALL EQUIPMENT ELECTRICAL CHARACTERISTICS PRIOR TO ROUGH-IN.
- PROVIDE AND INSTALL ALL CONDUIT, PULL WIRES AND BOXES THAT MAY BE NECESSARY.
- ANY PENETRATIONS MADE IN OR THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED USING THE APPROPRIATE U.L. LISTED ARRANGEMENT. PROVIDE FIRE STOPPING FOR ALL ELECTRICAL PENETRATIONS OF RACEWAYS AND BOXES FOR THESE APPLICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON FIRE STOP SYSTEMS. REFER TO LIFE SAFETY PLANS FOR LOCATIONS AND FIRE RESISTANCE RATINGS.
- ALL POWER PANELS SHALL BE LABELED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 110.16 WITH APPROPRIATE ARC FLASH WARNING LABELS. SERVICE ENTRANCE EQUIPMENT SHALL COMPLY WITH MARKING REQUIREMENTS LISTED IN THE NATIONAL ELECTRICAL CODE 110.24.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL NEW EXPOSED CONDUIT, RODS, SUPPORTS, ETC. TO MATCH EXISTING EXPOSED CEILING COLOR. WHITE. WITHIN THE PROJECT AREA. FOR GALVANIZED MATERIALS APPLY (1) COAT OF DTM PRIMER AND (2) COATS EXTERIOR LATEX PAINT. FINISH TO MATCH EXISTING. PAINTS AND UNDERCOAT SHALL BE BY SAME MANUFACTURER. PROVIDE PRODUCTS BY PPG OR OTHER MANUFACTURER OF EQUIVALENT QUALITY.
- ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS SHALL HAVE A SEPARATE NEUTRAL PER CIRCUIT.
- E.C. SHALL VERIFY LOAD AND PROPER PHASE AND NEUTRAL ARRANGEMENTS ON EXISTING CIRCUITS TO BE REUSED.
- DEVICE MOUNTING HEIGHTS INDICATED ARE MEASURED FROM FINISHED FLOOR TO THE CENTER OF DEVICE.
- CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY. E.C. SHALL FIELD VERIFY AND DETERMINE ALL AVAILABLE CIRCUITS AND BALANCE LOADS PER THE NATIONAL ELECTRICAL CODE.
- ALL LIGHTING AND POWER BRANCH CIRCUIT WIRING SHALL BE A MINIMUM OF #12 AWG IN 3/4" CONDUIT.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL LOCATION OF ELECTRICAL DEVICES AND EQUIPMENT.
- ROUTE ALL CONDUIT AND RACEWAYS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND PER COORDINATION WITH OTHER TRADES. THE E.C. SHALL REFER TO THE COMPLETE SET OF CONSTRUCTION DRAWINGS FOR COORDINATION.
- BRANCH CIRCUIT CONDUCTORS SHALL NOT EXCEED 3% VOLTAGE DROP AT THE DESIGN LOAD. REFER TO THE FOLLOWING FOR GENERAL GUIDANCE:
  - 120V BRANCH CIRCUITS, WHEN THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 0-75 FEET FROM THE PANEL, ARE TO HAVE #12 MINIMUM BRANCH CIRCUIT WIRING THROUGHOUT CIRCUIT. (CONDUIT SIZE PER THE NATIONAL ELECTRICAL CODE).
  - 120V BRANCH CIRCUITS, WHEN THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 76-150 FEET FROM THE PANEL, ARE TO HAVE #10 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (3/4" C.) FROM PANEL CIRCUIT BREAKER TO FIRST 75 FEET OF COMBINED HOMERUN AND BRANCH CIRCUIT AND #12 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT (3/4" C.).
  - 120V BRANCH CIRCUITS, WHEN THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 150-250 FEET FROM THE PANEL, ARE TO HAVE #8 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (3/4" C.) FROM PANEL CIRCUIT BREAKER TO FIRST 150 FEET OF COMBINED HOMERUN AND BRANCH CIRCUIT AND #10 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT (3/4" C.).
  - 120V BRANCH CIRCUITS, WHEN THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO THE FINAL DEVICE ON THE CIRCUIT EXCEEDS 250 FEET FROM THE PANEL, THE CIRCUIT CONDUCTORS SHALL BE SIZED NOT TO EXCEED 3% VOLTAGE DROP USING THE VOLTAGE DROP METHOD BASED ON THE TOTAL CONNECTED DEVICE DESIGN LOAD AMPERAGE AT A 0.9 POWER FACTOR.
- ANY DAMAGE TO THE EXISTING FACILITY SHALL BE REPAIRED AND REFINISHED AT NO CHANGE IN CONTRACT PRICE. E.C. SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, PAINTING AND REMOVING/REPLACING CEILING TILES AS IS NECESSARY FOR THE WORK.
- ALL DISCONNECTS SHALL BE LOCKABLE AND NEMA RATED AS PER INDICATED ON LAYOUT DRAWINGS.

## SYMBOLS LIST

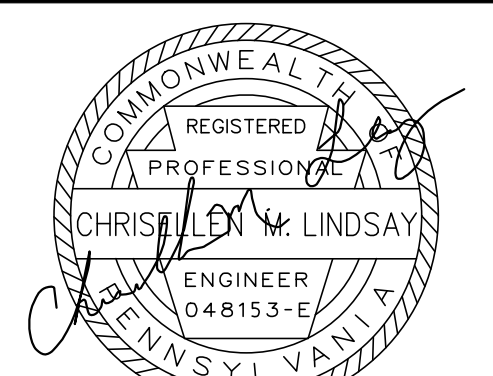
	LIGHTING FIXTURE, LETTER TYPE AND CIRCUIT NUMBER AS SHOWN ON DRAWINGS. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS AND ALL LIGHTING SYMBOLS. "LP" DENOTES PANELBOARD, "1" DENOTES CIRCUIT NUMBER. "L" DENOTES SWITCHING DESIGNATION, "AT" DENOTES FIXTURE TYPE LETTER. NOTATIONS TYPICAL FOR ALL LIGHTING.		BRANCH CIRCUIT RACEWAY AND WIRING INSTALLED FOR 48VDC EMERGENCY OPERATION. INSTALLED ON SURFACE OF WALLS OR CEILINGS AS FIELD CONDITIONS DICTATE.
	4' LENSED STRIP LIGHT - SEE LIGHTING SCHEDULES SHEET AND LIGHTING FIXTURE INFORMATION ABOVE.		BRANCH CIRCUIT RACEWAY AND WIRING INSTALLED ON SURFACE OF WALLS, CEILINGS OR CONCEALED IN WALLS AS FIELD CONDITIONS DICTATE. CIRCUIT SIZE 2 #12 & 1 #12 GND. 3/4" EMT UNLESS INDICATED OTHERWISE.
	2X2 LIGHT - SEE LIGHTING SCHEDULES SHEET AND LIGHTING FIXTURE INFORMATION ABOVE.		BRANCH CIRCUIT HOMERUN
	EXTERIOR EMERGENCY LIGHT - SEE LIGHTING SCHEDULES SHEET AND LIGHTING FIXTURE INFORMATION ABOVE.		CIRCUIT NUMBER PANEL DESIGNATION
	LIGHTING SWITCH. "D" DENOTES DIMMER, "3" DENOTES 3 WAY, "o" DENOTES SWITCH DESIGNATION. NOTATIONS TYPICAL FOR ALL LIGHTING SWITCHES.		GROUND CONDUCTOR
	SINGLE POLE TOGGLE SWITCH.		GROUND TEST WELL
	SINGLE POLE, TOGGLE SWITCH WITH LIGHTED TOGGLE		TELEPHONE OUTLET.
	LOW VOLTAGE LIGHTING CONTROLS		DATA OUTLET. 2 DENOTES QUANTITY OF DROPS.
	SINGLE POLE, WALL MOUNTED OCCUPANCY SENSOR		RIGID GALVANIZED STEEL CONDUIT
	CEILING MOUNTED OCCUPANCY SENSOR. "o" DENOTES SWITCH DESIGNATION. NOTATIONS TYPICAL FOR ALL OCCUPANCY SENSORS.		ELECTRICAL METALLIC TUBING
	ROOF MOUNTED PHOTOCCELL FOR EXTERIOR LIGHTING CONTROL.		EXHAUST FAN
	CEILING MOUNTED DAYLIGHT SENSOR		GROUND
	SPECIAL RECEPTACLE		LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	SINGLE RECEPTACLE		EARLY WARNING FIRE DETECTION AMPERE
	DUPLEX RECEPTACLE		AMPERE
	DOUBLE DUPLEX RECEPTACLE		NOT TO SCALE
	TR DENOTES TAMPER RESISTANT RECEPTACLE.		DIRECT DIGITAL CONTROL
	WP DENOTES WEATHER PROOF COVER WITH LOCK		AUTOMATIC TEMPERATURE CONTROL PANEL
	GFCI DENOTES GROUND FAULT INTERRUPTER RECEPTACLE		SUPPLY FAN
	AC DENOTES ABOVE COUNTER. (8" ABOVE COUNTER COORDINATE W/ ARCHITECT)		SURGE PROTECTION DEVICE
	USB DENOTES RECEPTACLE WITH USB PORT		PRESENT TO REMAIN - DEVICE OR EQUIPMENT
	USB-C DENOTES RECEPTACLE WITH USB-C PORT		RELIEF AIR FAN
	WEATHERPROOF ENCLOSURE		EXISTING TO REMAIN
	DISCONNECT SWITCH FUSED OR NON FUSED AS INDICATED ON DRAWINGS RATED FOR NOMINAL SYSTEM VOLTAGE		ABOVE COUNTER DEVICE
	AMPERE SIZE 100/3/39/A NUMBER DENOTES FUSE SIZE NF = NON-FUSED		ELECTRIC WATER COOLER
	3 DENOTES - 3 POLE		NAMEPLATE TAG NUMBER - SEE DRAWING E-3
	2 DENOTES - 2 POLE		NEW WORK
	ELECTRICAL POWER PANELBOARD		EXISTING TO BE REMOVED
	SPECIALTY PANEL		EXISTING CONDITIONS
	JUNCTION/PULLBOX		CENTER LINE
	JUNCTION BOX		UNDERGROUND ELECTRICAL RUN
	PANEL INTERFACE MODULE		LIGHT FIXTURE WIRED AS "EMERGENCY EGRESS" (CONNECTED STRAIGHT TO SOURCE BREAKER AND ENERGIZED 24/7 UNLESS INDICATED OTHERWISE)
	CARD ACCESS		SHADING INDICATES THE FIXTURE HAS AN EMERGENCY BACK-UP.
			LUMINAIRE SYMBOL & TYPE ID (REFER TO LIGHT FIXTURE SCHEDULE)

## REVISIONS

## NOTES



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JUNE 3, 2026

MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM  
41 MUNNELL RUN LANE  
MERCER, PA 16137

FOR THE

MERCER COUNTY COMMISSIONERS  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

ELECTRICAL COVER SHEET SYMBOLS AND NOTES

COMM. NO.  
4826  
DATE  
5/29/26

SHEET NO.  
**E-001**

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REVISIONS

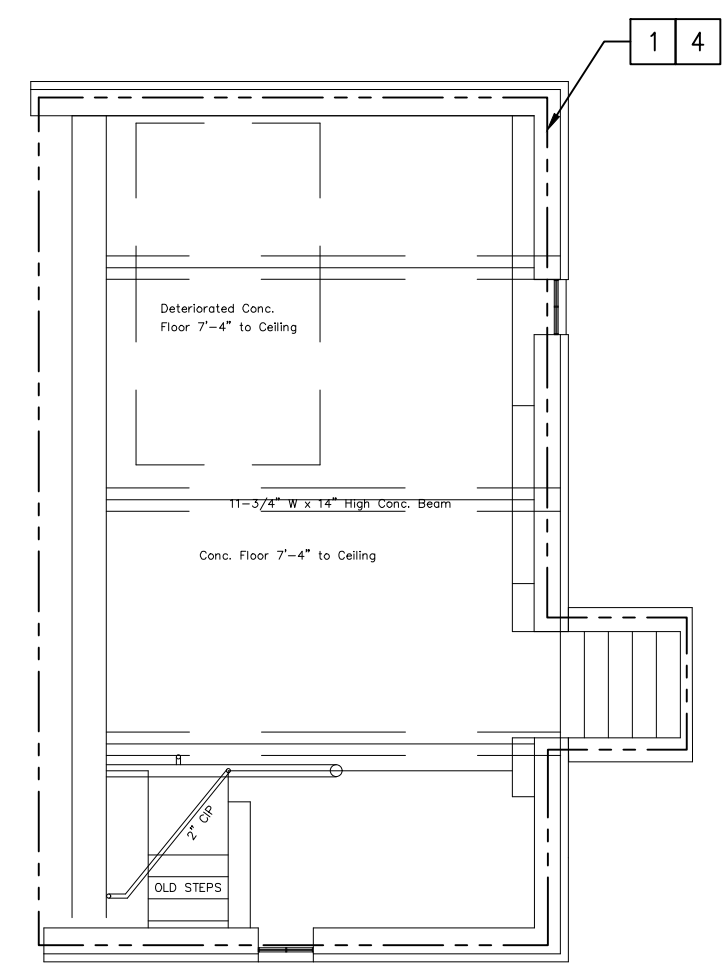
NOTES

**GENERAL NOTES**

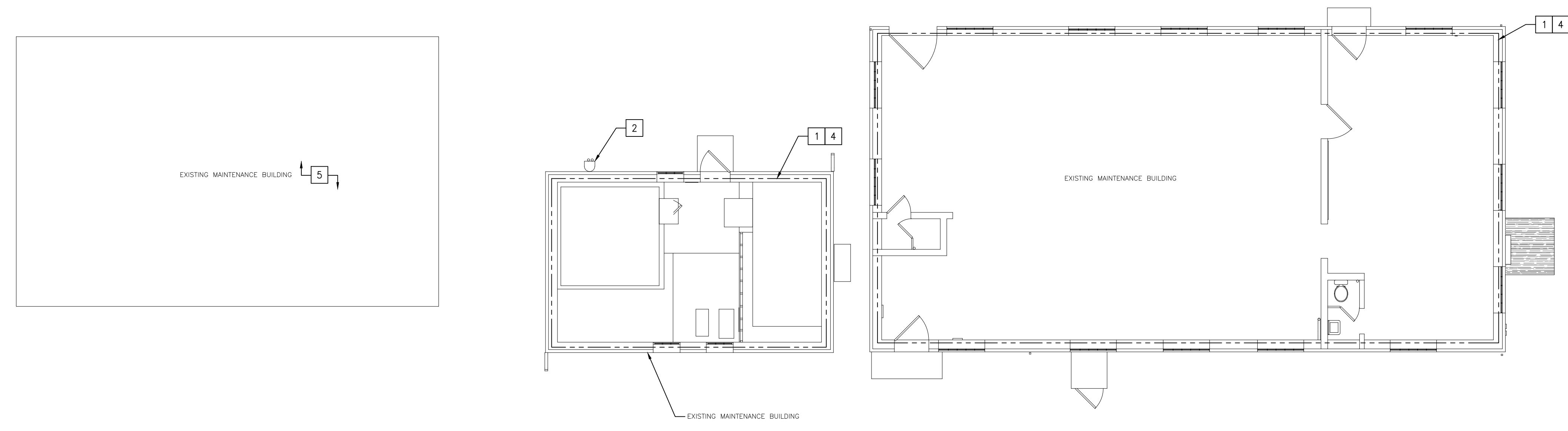
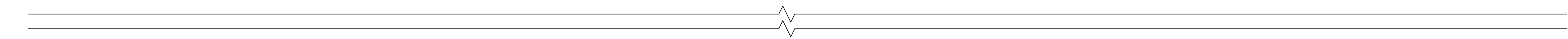
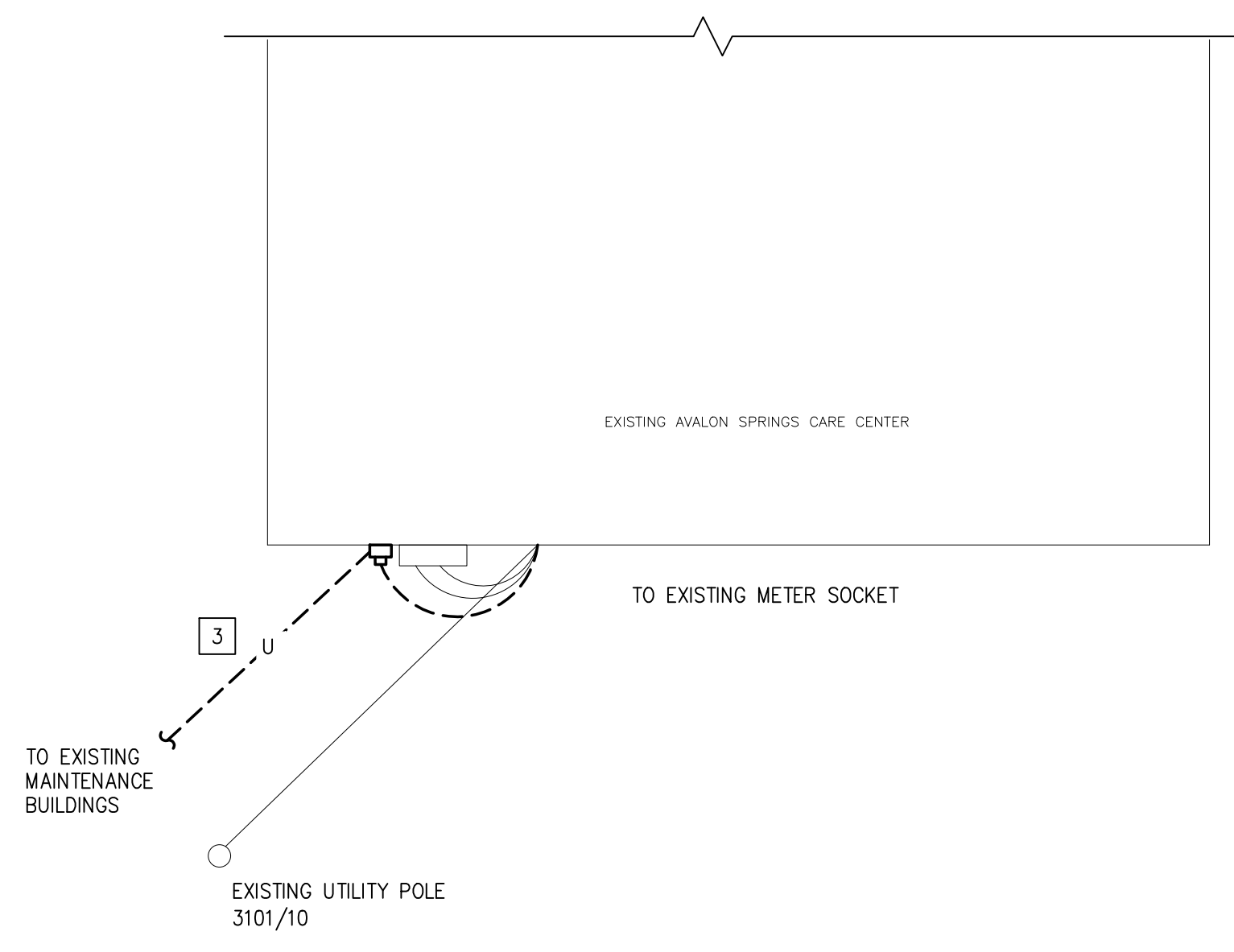
1. ALL DEVICES SHOWN IN HEAVY DASHED LINE TYPES ON DEMOLITION PLAN ARE TO BE REMOVED UNLESS OTHERWISE NOTED.
2. FOR GENERAL NOTES, SYMBOLS ABBREVIATIONS, DEVICE STATUS LEGEND ETC, SEE DRAWING E-001

**DEMOLITION KEY NOTES**

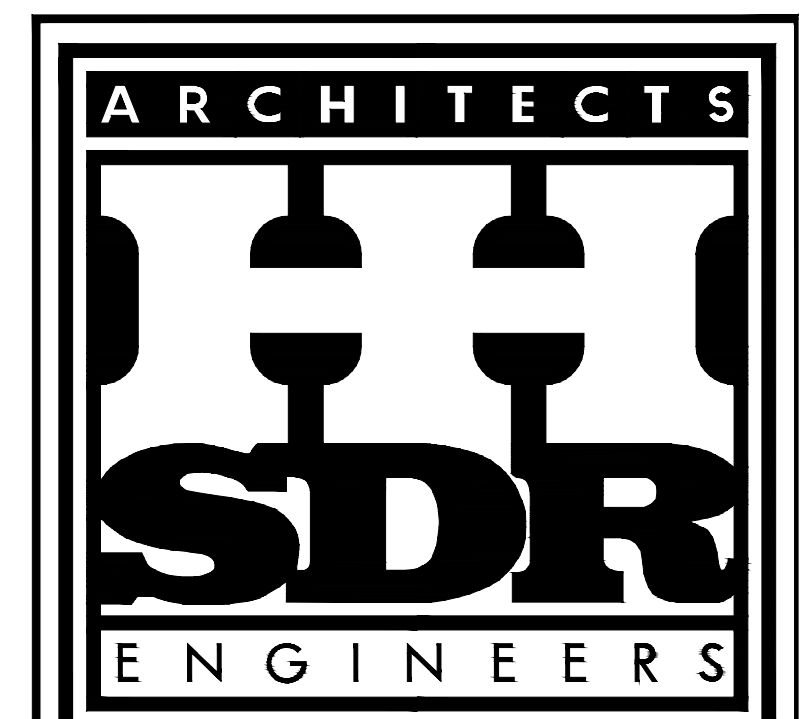
1. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES, PANELBOARDS AND DISCONNECTS IN THIS AREA AND ALL ASSOCIATED WIRING, CONDUIT, JUNCTION BOXES ETC. BACK TO THE BUILDING SOURCE UNLESS OTHERWISE INDICATED. DISCONNECT AND REMOVE ALL ABANDONED BRANCH CIRCUIT WIRING.
2. REMOVE EXISTING ELECTRIC POLE AND ITS FEEDER BACK TO BUILDING SOURCE AFTER NEW SERVICE ENTRANCE CABLES AND CONDUIT HAVE BEEN INSTALLED AND NEW SERVICE IS OPERATIONAL. SEE NEW WORK PLAN DRAWING E-102 AND NEW SINGLE LINE DRAWING E-601. COORDINATE WITH UTILITY COMPANY AND FACILITIES MANAGEMENT FOR SCHEDULING DOWNTIME AND REMOVAL. EXISTING CONDUIT TO BE CUT AND CAPPED AT GROUND LEVEL. REMOVE EXISTING ELECTRIC DROPS TO ALL BUILDINGS.
3. EXISTING METER SOCKET, CONDUIT AND SERVICE CABLES SHALL BE REMOVED AFTER NEW SERVICE ENTRANCE CABLES AND CONDUIT HAVE BEEN INSTALLED AND NEW SERVICE IS OPERATIONAL. SEE NEW WORK PLAN DRAWING E-102 AND NEW SINGLE LINE DRAWING E-601. COORDINATE WITH UTILITY COMPANY AND FACILITIES MANAGEMENT FOR SCHEDULING DOWNTIME AND REMOVAL. EXISTING CONDUIT TO BE CUT AND CAPPED AT GROUND LEVEL.
4. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES, PANELBOARDS AND DISCONNECTS ON OR ATTACHED TO THE EXTERIOR OF THE BUILDING AND ALL ASSOCIATED WIRING, CONDUIT, JUNCTION BOXES ETC. BACK TO THE BUILDING SOURCE UNLESS OTHERWISE INDICATED. DISCONNECT AND REMOVE ALL ABANDONED BRANCH CIRCUIT WIRING.
5. DISCONNECT EXISTING POWER FEEDER FOR MAINTENANCE GARAGE FROM ITS EXISTING SOURCE AND RETAIN FOR RE-CONNECTION TO NEW PANEL C-P1 LOCATED IN COUNTY COMPUTER ROOM/OFFICE. MAINTAIN CONTINUITY TO EXISTING TO REMAIN CIRCUITS IN EXISTING MAINTENANCE GARAGE. FIELD VERIFY FEEDER LOCATION, CONNECTIONS AND CONDITION OF EXISTING FEEDER. IF EXISTING FEEDER IS COMPROMISED OR TOO SMALL FOR MAINTENANCE GARAGE LOADS CONTACT SANTANGELO AND LINDSAY ENGINEERING FOR FURTHER INSTRUCTION.



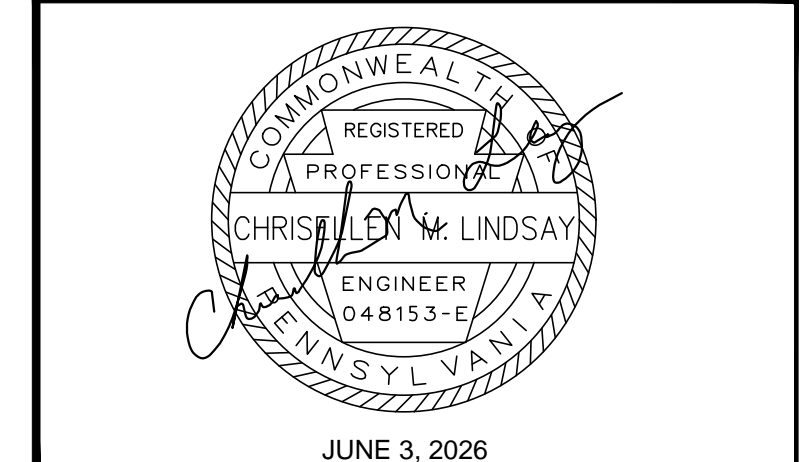
**ELECTRICAL BASEMENT PLAN – DEMOLITION**  
SCALE: 1/8" = 1'-0"



**ELECTRICAL SITE AND BUILDINGS PLAN – DEMOLITION**  
SCALE: 1/8" = 1'-0"



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**MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM**  
41 MUNNELL RUN LANE  
MERCER, PA 16137

FOR THE  
**MERCER COUNTY COMMISSIONERS**  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

**ELECTRICAL DEMOLITION PLAN**

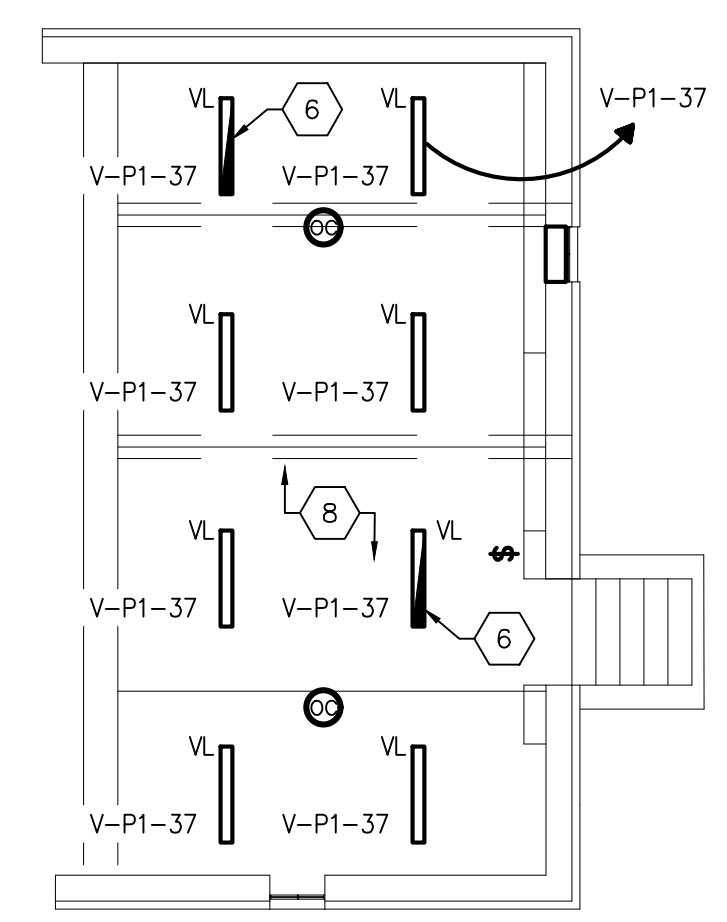
COMM. NO. 4826	SHEET NO. <b>ED101</b>
DATE 5/29/26	©Copyright 2026

**GENERAL NOTES**

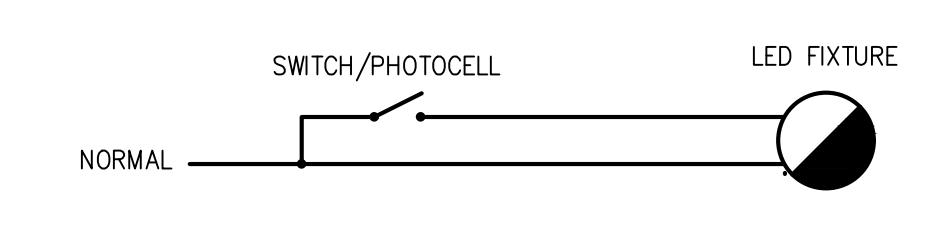
1. CONDUIT ROUTING SHALL RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS.
2. CONTRACTOR SHALL PROVIDE ALL FIXTURES, LIGHTING CONTROL DEVICES, WIRING/CONDUIT, CLIPS, BRACKETS, HANGERS, SUPPORTS, BOXES, ETC. REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
3. FOR LIGHTING FIXTURE SCHEDULE, REFER TO DRAWING E-602.
4. WIRE EMERGENCY/EGRESS LIGHTING & EXIT SIGNS TO AC CIRCUIT AHEAD OF ANY SWITCHING UNLESS INDICATED OTHERWISE. PROVIDE ALL EMERGENCY/EGRESS LIGHTING FIXTURES AND EXIT SIGNS WITH A BACK UP BATTERY PACK.
5. PROVIDE ALL DAYLIGHT ZONE LIGHTING FIXTURES WITH DIMMING CAPABILITY.

**NEW WORK KEY NOTES**

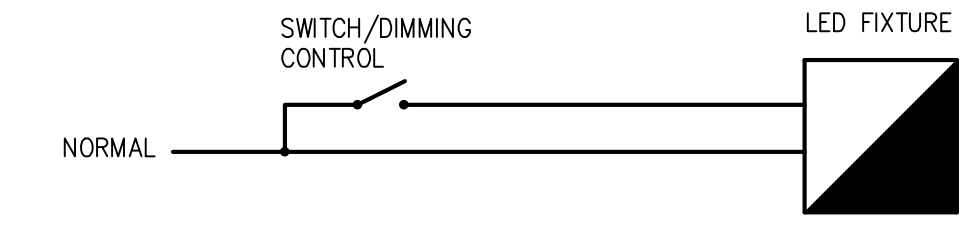
1. EXTERIOR BUILDING WALL PACK LIGHTING FIXTURE. LIGHTING FIXTURE SHALL BE CONTROLLED VIA PHOTOCELL AND LIGHTING CONTROL PANEL. FIXTURE MOUNTING HEIGHT SHALL BE 1' ABOVE TOP OF WINDOWS. COORDINATE EXACT LOCATION WITH FACILITIES MANAGEMENT.
2. PHOTOCELL SHALL BE COMMERCIAL GRADE IN A WEATHERPROOF ENCLOSURE MOUNTED ABOVE ROOF LEVEL FACING NORTH ON NORTH SIDE OF BUILDING. EXACT LOCATION TO BE DETERMINED BY THE CONTRACTOR. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
3. EXTERIOR BUILDING WALL PACK LIGHTING FIXTURE. LIGHTING FIXTURE SHALL BE CONTROLLED VIA PHOTOCELL AND LIGHTING CONTROL PANEL. FIXTURE SHALL BE MOUNTED 2' ABOVE DOOR FRAME. COORDINATE EXACT LOCATION WITH FACILITIES MANAGEMENT.
4. PROVIDE INDICATED LIGHTING FIXTURE WITH BACKUP BATTERY PACK AND DIMMABLE DRIVER. WIRE FIXTURE UNSWITCHED FOR BATTERY BACKUP CHARGING AND SAME CIRCUIT SWITCHED VIA PHOTOCELL FOR 30% DIMMING OF DUSK TO DAWN LIGHTING. SEE TYPICAL EXTERIOR EGRESS LIGHTING DETAIL THIS DRAWING.
5. PROVIDE INDICATED EMERGENCY EGRESS LIGHTING FIXTURE WITH BACKUP BATTERY PACK. WIRE FIXTURE UNSWITCHED FOR BATTERY BACKUP CHARGING AND SAME CIRCUIT SWITCHED VIA DIMMING CONTROL. COORDINATE ALL WIRING REQUIREMENTS WITH FACILITIES LIGHTING CONTROLS REPRESENTATIVE AND VENDOR DRAWINGS. SEE EMERGENCY/EGRESS WITH DIMMING DETAIL THIS DRAWING.
6. PROVIDE INDICATED EMERGENCY EGRESS LIGHTING FIXTURE WITH BACKUP BATTERY PACK. WIRE FIXTURE UNSWITCHED TO CIRCUIT SHOWN.
7. LOW VOLTAGE LIGHTING CONTROLLER. COORDINATE EXACT LOCATIONS, QUANTITIES, ZONES AND WIRING REQUIREMENTS OF ALL LIGHTING CONTROLS, OCCUPANCY SENSING, DAYLIGHT SENSING, ETC. WITH LIGHTING CONTROL REPRESENTATIVE AND VENDOR DRAWINGS.
8. PROVIDE ALL ELECTRICAL ROUTING IN RGS CONDUIT AND ALL BACKBOXES AS HOT DIPPED GALVANIZED STEEL WITH METAL WEATHERPROOF COVERPLATES.



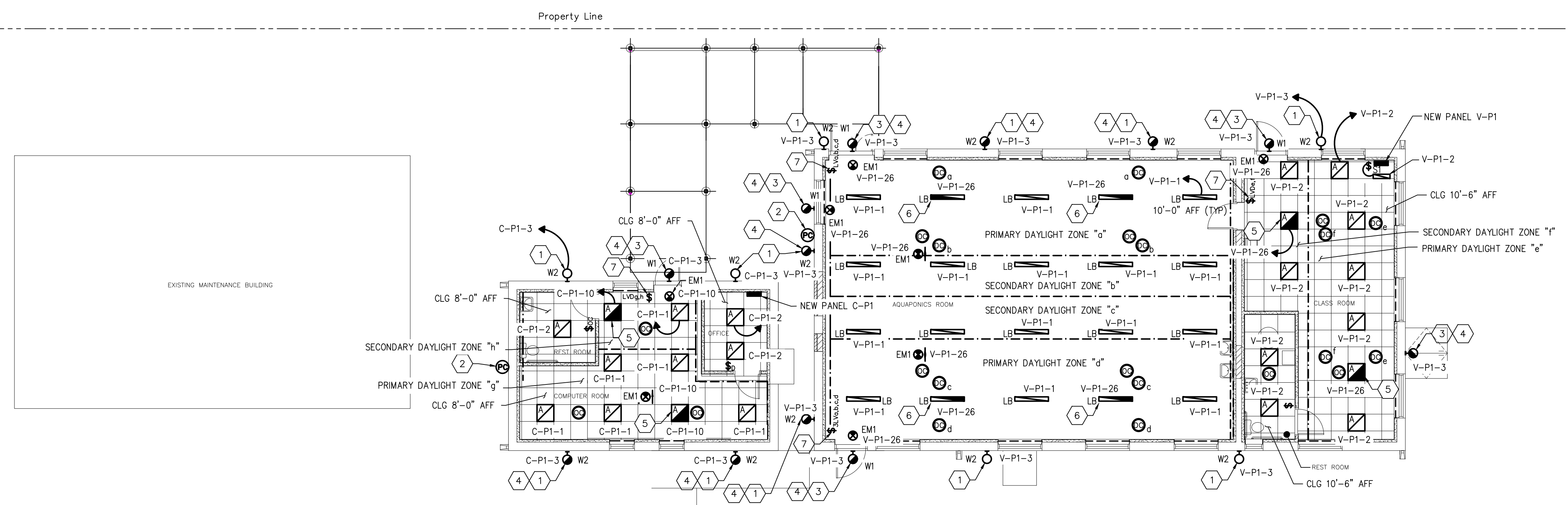
**ELECTRICAL BASEMENT PLAN – NEW WORK LIGHTING**  
SCALE: 1/8" = 1'-0"



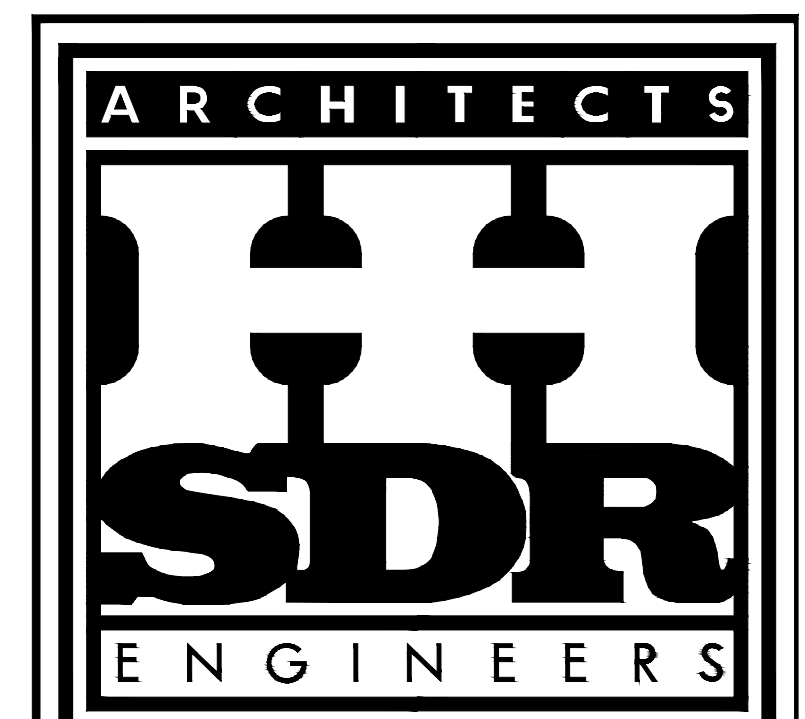
**TYPICAL EXTERIOR EGRESS LIGHTING DETAIL**  
SCALE: NTS



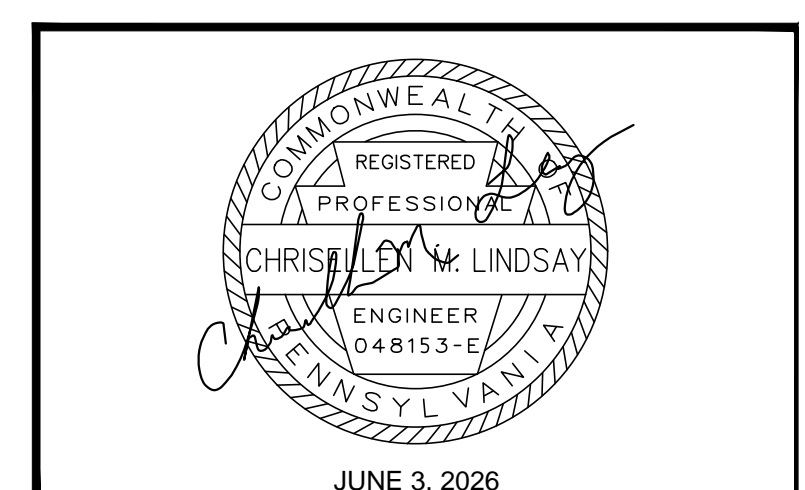
**EMERGENCY/EGRESS WITH DIMMING DETAIL**  
SCALE: NTS



**ELECTRICAL SITE AND BUILDINGS PLAN – NEW WORK LIGHTING**  
SCALE: 1/8" = 1'-0"



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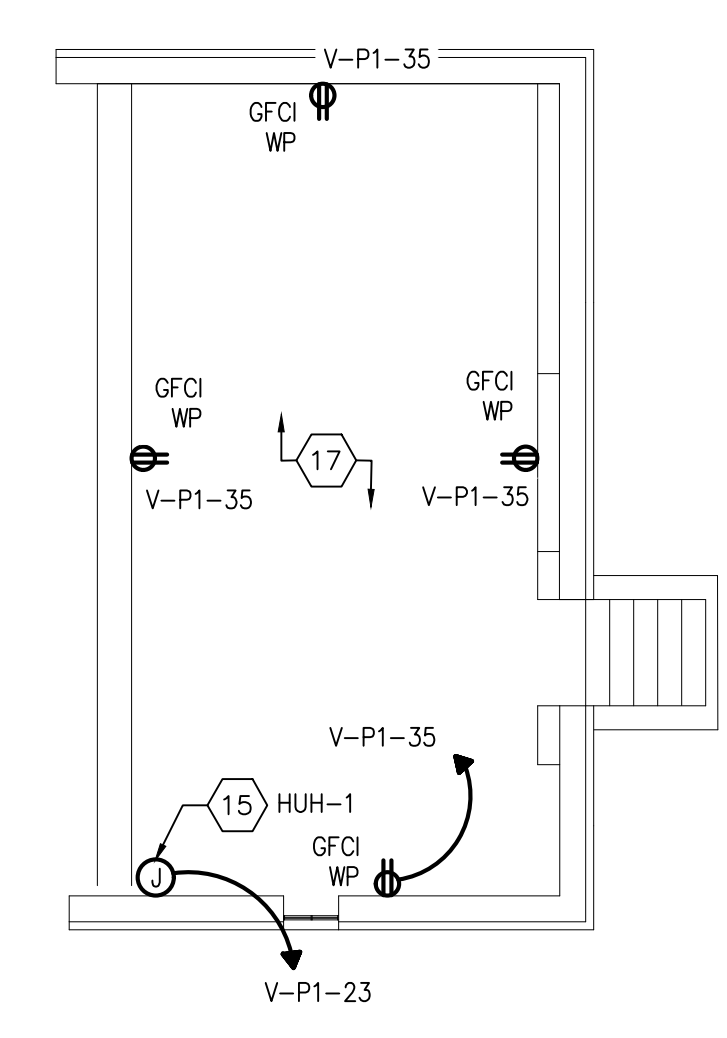
**ELECTRICAL LIGHTING PLAN**

**GENERAL NOTES**

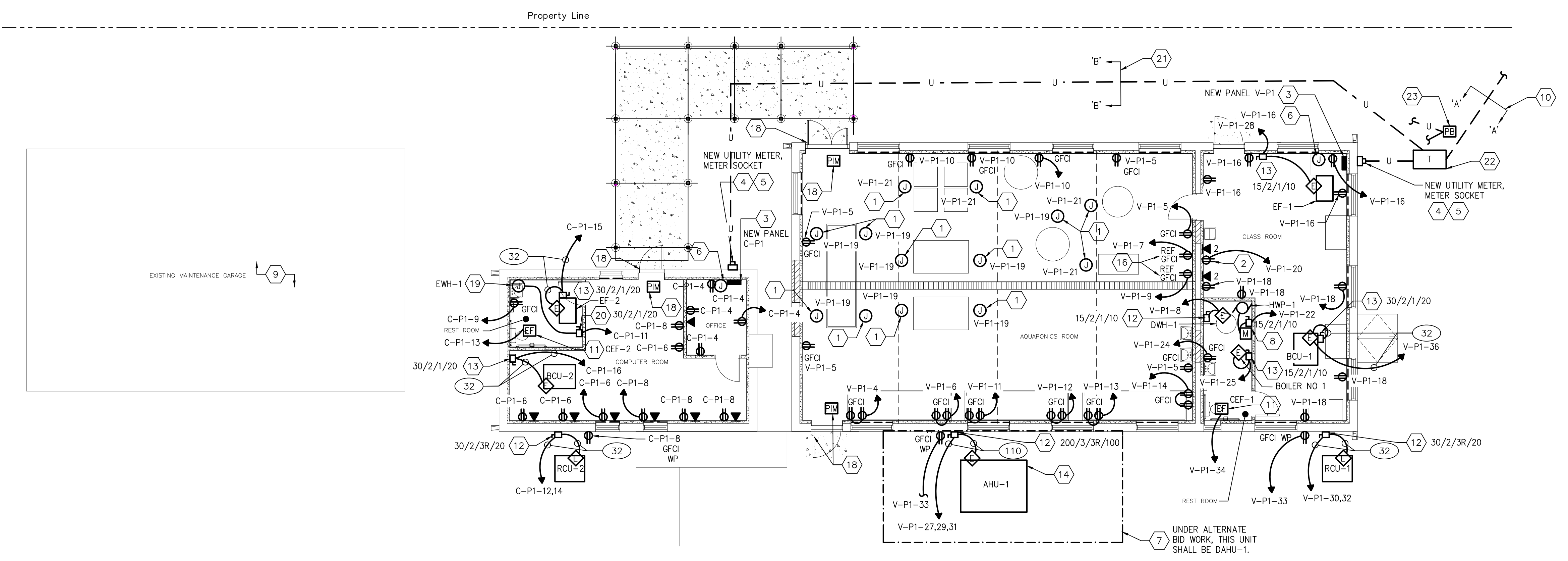
- CONTRACTOR SHALL PROVIDE ALL WIRING/CONDUIT, CLIPS, BRACKETS, HANGERS, SUPPORTS, BOXES, ETC. REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
- PROVIDE FIRE STOPPING FOR FIRE RATED WALL PENETRATIONS WHERE REQUIRED. PATCH AND TOUCH UP PAINT TO MATCH EXISTING ADJACENT CONSTRUCTION.
- PROVIDE ALL REQUIRED PULLBOXES AND JUNCTION BOXES PER THE NATIONAL ELECTRICAL CODE.
- REFER TO ELECTRICAL COVER SHEET SYMBOLS AND NOTES DRAWING E-001 FOR ABBREVIATIONS, NOTES AND OTHER ADDITIONAL INFORMATION AND REQUIREMENTS.
- DRAWING IS DIAGRAMATIC IN NATURE. E.C. SHALL PROVIDE ALL INCIDENTAL MATERIAL AND LABOR THAT IS REQUIRED FOR A FULLY COMPLETE AND OPERABLE SYSTEM OF THE DESIGN(S) SHOWN ON DRAWING. ALL WORK AND FUNCTIONALITY SHALL MEET REQUIRED STANDARDS AND CODES.
- PROVIDE AND INSTALL ALL REQUIRED BACKBOXES AND 1" CONDUIT WITH PULLSTRING UP INTO CEILING FOR ALL DATA ROUTING. ALL DATA WIRE ROUTING AND CONNECTIONS SHALL BE BY OTHERS. COORDINATE ALL NEW DATA OUTLET REQUIREMENTS WITH OWNER/FACILITIES MANAGEMENT.
- SEE DEVICE MOUNTING HEIGHTS TABLE ON ELECTRICAL COVER SHEET SYMBOLS AND NOTES DRAWING E-001 FOR ALL DEVICE HEIGHTS (ALL DEVICE HEIGHTS NOTED ARE TO CENTER OF DEVICE).
- MAINTAIN ALL REQUIRED CLEARANCES FOR ELECTRICAL EQUIPMENT PER NEC, INCLUDING MAIN DISTRIBUTION PANELS, PANELBOARDS, SWITCHES, TRANSFORMERS, ETC.
- SEE SINGLE LINE DRAWING E-601 FOR ALL NEW ELECTRICAL EQUIPMENT (I.E., PANELBOARDS, DISCONNECTS, TRANSFORMERS, ETC.) AND THEIR FEEDER INFORMATION, ROUTING, WIRING AND INSTALLATION REQUIREMENTS.

**NEW WORK KEY NOTES**

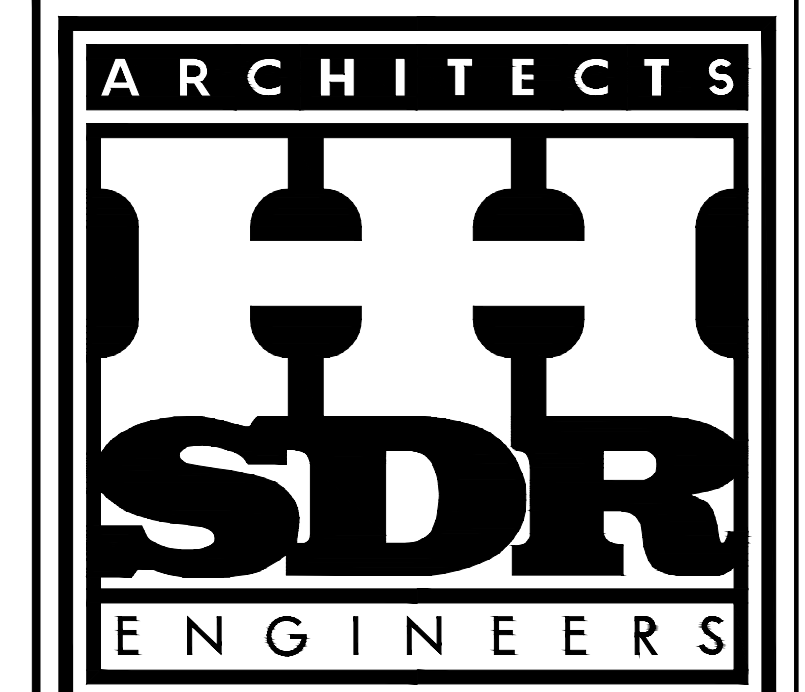
- PROVIDE 120V CORD REEL WITH GFCI DUPLEX RECEPTACLE ABOVE PUMP STATIONS, BEDS, ETC. CORD REEL SHALL HAVE 30' OF EXTENSION CORD. COORDINATE AND LOCATE EXACT LOCATION, QUANTITIES AND HEIGHT WITH FACILITIES MANAGEMENT BEFORE ROUGH-IN.
- PROVIDE DEDICATED 120V CIRCUIT AND DATA OUTLET FOR SMARTBOARD. COORDINATE EXACT TYPE OF CONNECTION FOR DATA OUTLET WITH SMARTBOARD MANUFACTURER. COORDINATE EXACT LOCATION, QUANTITIES AND MANUFACTURER TYPE AND MODEL WITH FACILITIES MANAGEMENT.
- PROVIDE SERVICE RATED PANEL. SEE SINGLE LINE DRAWING FOR MORE INFORMATION.
- COORDINATE ALL REQUIREMENTS AND TIMING OF WORK ASSOCIATED WITH EXISTING AND NEW UTILITY POLES, TRANSFORMERS, PRIMARY SERVICE FEEDS, ETC. WITH UTILITY COMPANY PRIOR TO START OF WORK. PROVIDE ALL LABOR AND MATERIAL REQUIRED FOR COMPLETE INSTALLATION. SEE SINGLE LINE DRAWING FOR MORE INFORMATION.
- COORDINATE EXACT LOCATION OF NEW UTILITY METER WITH UTILITY COMPANY PRIOR TO START OF WORK.
- PROVIDE 120V POWER CIRCUIT INDICATED FOR LIGHTING CONTROL PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH LIGHTING REPRESENTATIVE AND FACILITIES MANAGEMENT.
- DAHJ-1 FOR ADD ALTERNATE 1 SHALL BE 3 PHASE, 208V. PROVIDE 70A 3 POLE BREAKER IN PANEL V-P1 POSITIONS 27,29,31. PROVIDE (3) #4 AND (1) #8 GROUND IN 1" CONDUIT FOR FEEDER WITH A 100A, 3 POLE, NEMA 3R FUSED DISCONNECT. FUSES SHALL BE 60A. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR.
- COMBINATION MOTOR STARTER DISCONNECT PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT SWITCH TYPE AND WIRING REQUIREMENTS WITH THE MECHANICAL CONTRACTOR. PROVIDE ALL NECESSARY UNISTRUT, HARDWARE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION AND A FLEXIBLE LIQUID TIGHT METAL CONDUIT CONNECTION TO THE UNIT. CIRCUIT SHALL BE SIZED THE SAME AS THE FEEDER CIRCUIT. ALL BOILER ACCESSORIES INCLUDING BUT NOT LIMITED TO HWP-1, MS, ETC. SHALL BE WALL MOUNTED ABOVE THE CEILING.
- INTERCEPT, EXTEND AND CONNECT EXISTING POWER FEEDER, SERVING EXISTING MAINTENANCE GARAGE. TO NEW POWER PANEL C-P1. MAINTAIN CONTINUITY TO EXISTING TO REMAIN CIRCUITS IN EXISTING MAINTENANCE GARAGE. PROVIDE REQUIRED SIZED BREAKER FOR EXISTING FEEDER TO MAINTENANCE GARAGE IN NEW PANEL C-P1. FIELD VERIFY EXISTING CONDITION OF EXISTING FEEDER TO MAINTENANCE GARAGE AND IF FEEDER IS COMPROMISED OR TOO SMALL FOR MAINTENANCE GARAGE LOADS CONTACT SANTANGELO AND LINDSAY ENGINEERING FOR FURTHER INSTRUCTION.
- INSTALL NEW UTILITY POWER FEED AND COMMUNICATIONS CONDUITS OUT TO UTILITY POLE AS SHOWN. SEE PANEL SCHEDULES AND DETAIL DRAWING E-602 FOR DUCT BANK DETAIL A-A AND SINGLE LINE DRAWING E-601 FOR MORE INFORMATION. FIELD VERIFY EXACT LENGTHS REQUIRED.
- EXHAUST FAN AND FAN CONTROLS PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 120V CIRCUIT FOR POWER AS INDICATED. COORDINATE EXACT LOCATION AND CONTROL REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- DISCONNECT SWITCH PROVIDED BY THE MECHANICAL CONTRACTOR. PROVIDE ALL NECESSARY UNISTRUT, HARDWARE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION AND A LIQUID TIGHT FLEXIBLE METAL CONDUIT CONNECTION TO THE UNIT; CIRCUIT SHALL BE SIZED THE SAME AS THE FEEDER CIRCUIT.
- DISCONNECT SWITCH PROVIDED BY THE MECHANICAL CONTRACTOR. PROVIDE ALL NECESSARY UNISTRUT, HARDWARE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION AND A FLEXIBLE METAL CONDUIT CONNECTION TO THE UNIT; CIRCUIT SHALL BE SIZED THE SAME AS THE FEEDER CIRCUIT.
- NEW DUCT TYPE SMOKE DETECTORS FOR SUPPLY AIR DUCTWORK IN NEW AHU UNIT SHALL BE PROVIDED AND INSTALLED BY OTHERS.
- PROVIDE INDICATED 120V CIRCUIT FOR HUH-1. CONTROLS/SWITCH SHALL BE BY THE MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- COORDINATE EXACT LOCATION OF REFRIGERATOR WITH FACILITIES MANAGEMENT. PROVIDE AND INTERCONNECT A REMOTE GFCI INDICATOR PILOT LIGHT ON WALL NEAR REFRIGERATOR WHERE CLEARLY VISIBLE.
- PROVIDE ALL ELECTRICAL ROUTING IN RGS CONDUIT AND ALL BACKBOXES AS HOT DIPPED GALVANIZED STEEL WITH METAL WEATHERPROOF COVERPLATES.
- THIS DOOR REQUIRES ACCESS CONTROL USING AN INTELLI-SITE SECURITY HEAD-END SYSTEM. THE HEAD-END SYSTEM AND THE ACCESS CONTROL PANEL IS PROVIDED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A PIM400-485 PANEL INTERFACE MODULE (PIM) ABOVE THE TILE CEILING LOCATED INSIDE NEAR THE DOOR. IF CEILING IS OPEN, LOCATE THE PIM IN THE OPEN CEILING AREA NEAR THE RESPECTIVE DOOR. E.C. SHALL PROVIDE ALL WIRING FROM THE ACCESS CONTROL PANEL TO THE PIM AND ALL ASSOCIATED CONDUIT, WIRING, JUNCTION BOXES, MATERIAL AND LABOR ETC. FOR A COMPLETE AND OPERATING DOOR ACCESS SYSTEM. COORDINATE EXACT WIRING REQUIREMENTS WITH THE MANUFACTURER'S INSTRUCTIONS AND THE SECURITY INTEGRATOR, ALLEGHENY SAFE & LOCK. E.C. SHALL PROVIDE THE AD-400 NETWORKED WIRELESS ELECTRONIC LOCK AND THE GENERAL CONTRACTOR SHALL INSTALL AND PROGRAM THE AD-400 LOCK. ALL DOOR SECURITY/CARD ACCESS REQUIREMENTS SHALL BE COORDINATED WITH THE SECURITY INTEGRATOR ALLEGHENY SAFE & LOCK, THE GENERAL CONTRACTOR, ARCHITECTURAL DRAWINGS, MANUFACTURER'S INSTRUCTIONS AND FACILITIES MANAGEMENT.
- PROVIDE INDICATED 120V CIRCUIT FOR EWH-1. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
- DISCONNECT SWITCH PROVIDED BY THE MECHANICAL CONTRACTOR. PROVIDE ALL NECESSARY UNISTRUT, HARDWARE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE CONDUIT TO THE JUNCTION/BACK BOX FOR THE UNIT; CIRCUIT SHALL BE SIZED THE SAME AS THE FEEDER CIRCUIT.
- INSTALL NEW UTILITY POWER FEED AND COMMUNICATIONS CONDUITS OUT TO UTILITY PAD MOUNTED TRANSFORMER AS SHOWN. SEE PANEL SCHEDULES AND DETAIL DRAWING E-602 FOR DUCT BANK DETAIL B-B AND SINGLE LINE DRAWING E-601 FOR MORE INFORMATION. FIELD VERIFY EXACT LENGTHS REQUIRED.
- UTILITY PAD MOUNTED TRANSFORMER. COORDINATE ALL REQUIREMENTS AND TIMING OF WORK ASSOCIATED WITH EXISTING AND NEW UTILITY POLES, TRANSFORMERS, PRIMARY SERVICE FEEDS, ETC. WITH UTILITY COMPANY PRIOR TO START OF WORK. PROVIDE ALL LABOR AND MATERIAL REQUIRED FOR COMPLETE INSTALLATION. SEE SINGLE LINE DRAWING FOR MORE INFORMATION. SEE E-602, ELECTRICAL SCHEDULES AND DETAILS DRAWING, FOR FIRST ENERGY'S CONCRETE FLAT - PAD FOUNDATION DETAIL.
- ARMSTRONG UTILITY NEW HANDHOLE PULL BOX. PROVIDE HANDHOLE PULL BOX AND CONDUIT WITH PULL STRING FROM EXISTING UTILITY POLE TO NEW HANDHOLE PULLBOX. PROVIDE CONDUIT WITH PULL STRING FROM NEW HANDHOLE PULLBOX TO NEW AQUAPONICS BUILDING AND FROM NEW HANDHOLE PULLBOX TO NEW COMPUTER ROOM BUILDING. SEE DUCT BANK DETAILS ON DRAWING E-602 FOR ROUTING COMMUNICATIONS CONDUITS TO AND FROM PULL BOX. COORDINATE EXACT LOCATIONS AND QUANTITIES OF HANDHOLE PULLBOXES. COORDINATE EXACT ROUTING AND TERMINATIONS WITH ARMSTRONG UTILITIES PRIOR TO START OF WORK. SEE SINGLE LINE DRAWING E-601 FOR MORE INFORMATION.



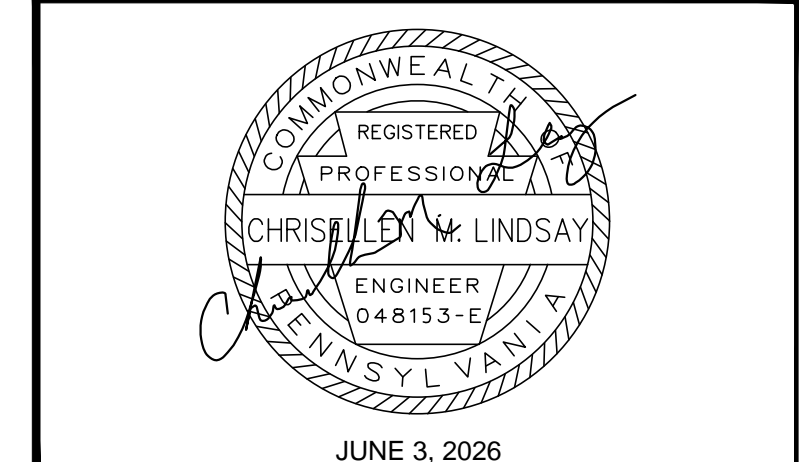
**ELECTRICAL BASEMENT PLAN – NEW WORK POWER**  
SCALE: 1/8" = 1'-0"



**ELECTRICAL SITE AND BUILDINGS PLAN – NEW WORK POWER AND SYSTEMS**  
SCALE: 1/8" = 1'-0"



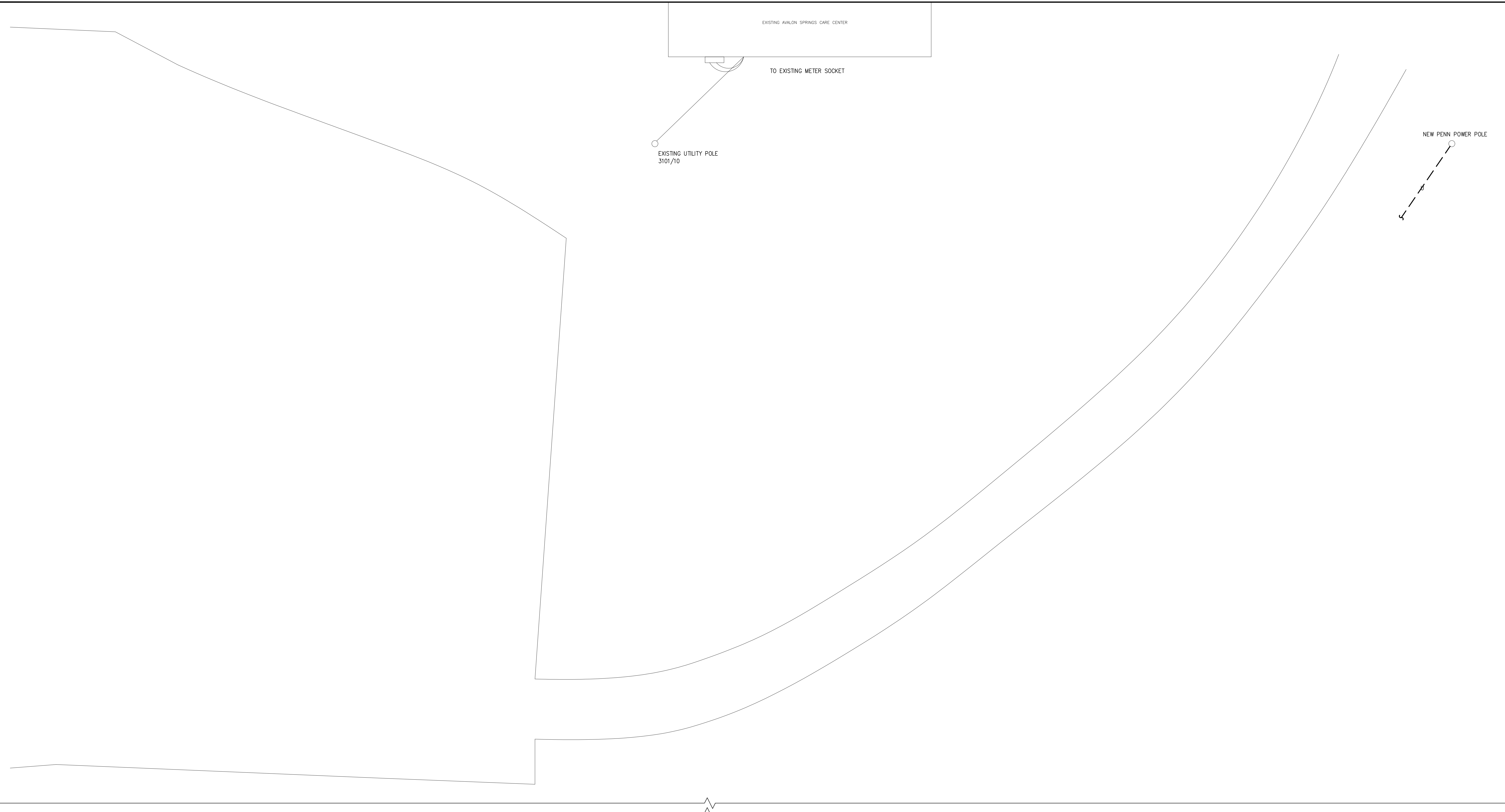
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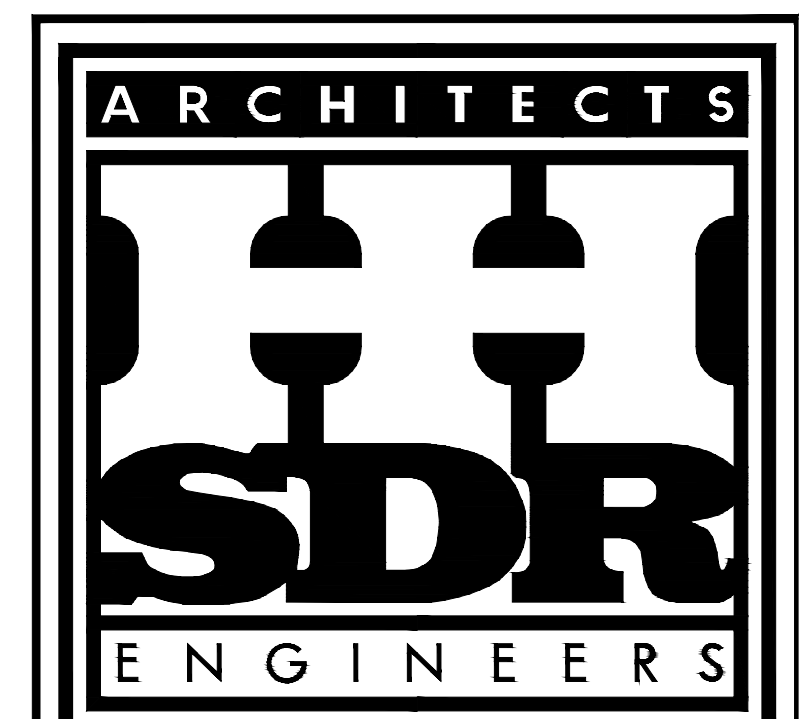
FOR THE  
**MERCER COUNTY COMMISSIONERS**  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

**ELECTRICAL POWER AND SYSTEMS PLAN**

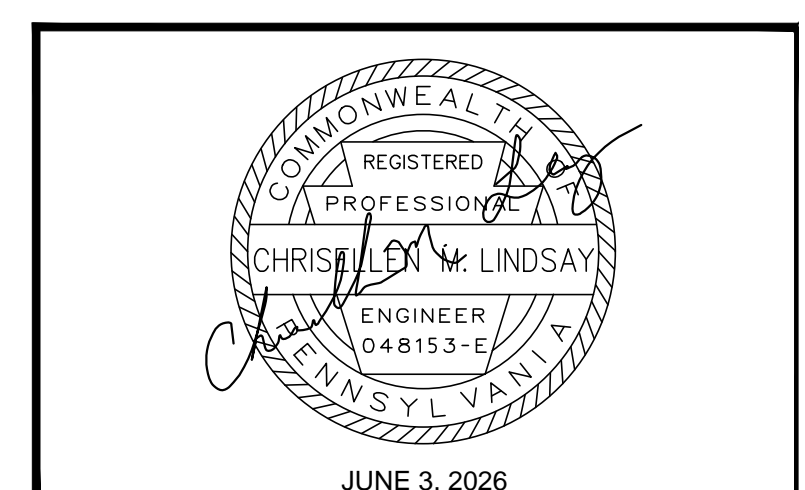


REVISIONS

NOTES



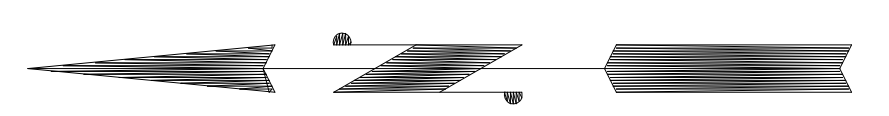
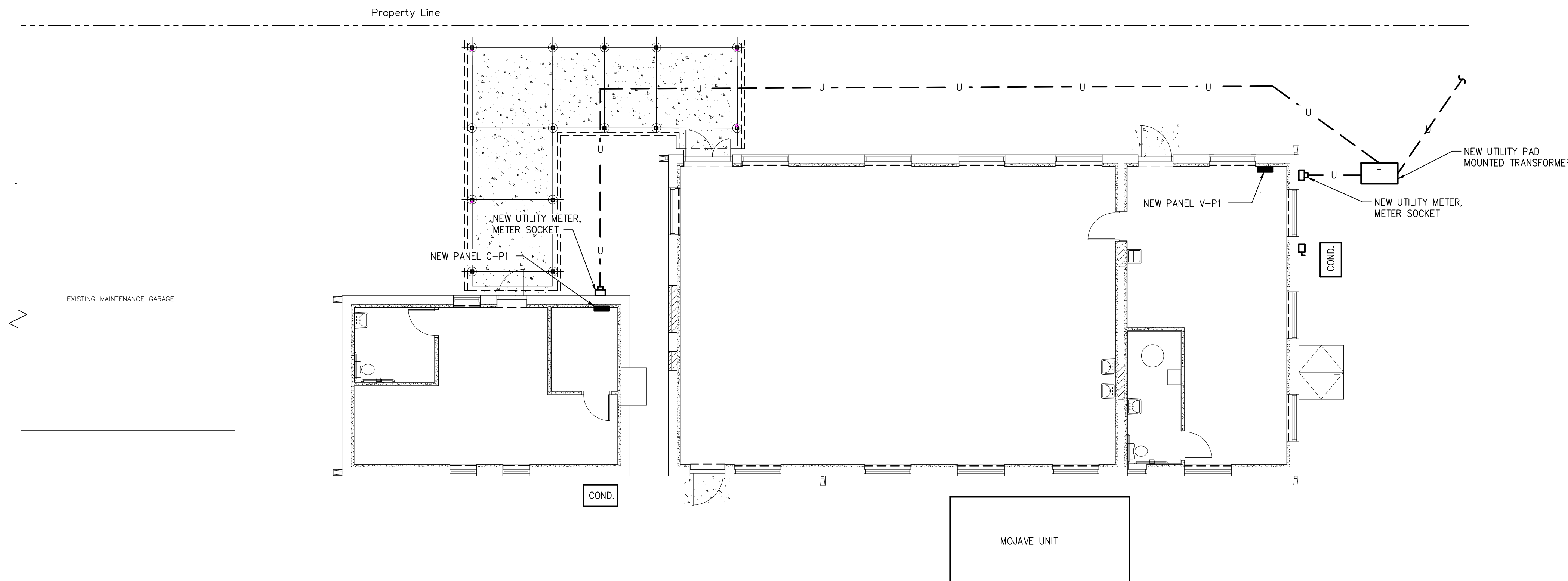
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MERCER COUNTY AGRICULTURAL AND CONSERVATION COMMUNITY LEARNING CENTER AT MUNNELL RUN FARM  
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MERCER, PA 16137

FOR THE  
MERCER COUNTY COMMISSIONERS  
125 SOUTH DIAMOND STREET  
MERCER, PA 16137

**ELECTRICAL SITE REFERENCE PLAN**

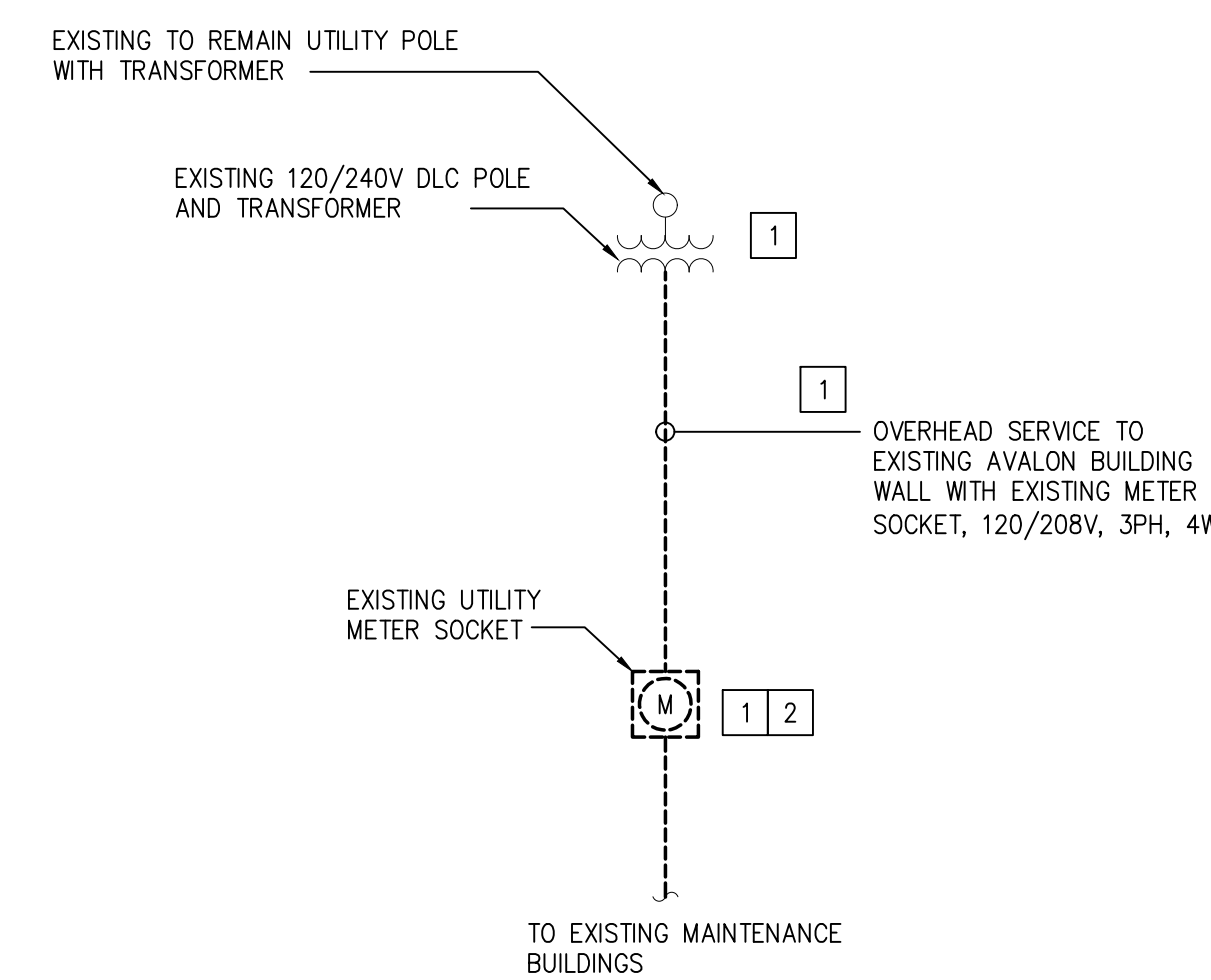


**ELECTRICAL SITE REFERENCE PLAN – NEW WORK**  
SCALE: 1/8" = 1'-0"

COMM. NO. 4826	SHEET NO. <b>E-103</b>
DATE 5/29/26	©Copyright 2026

**REVISIONS**

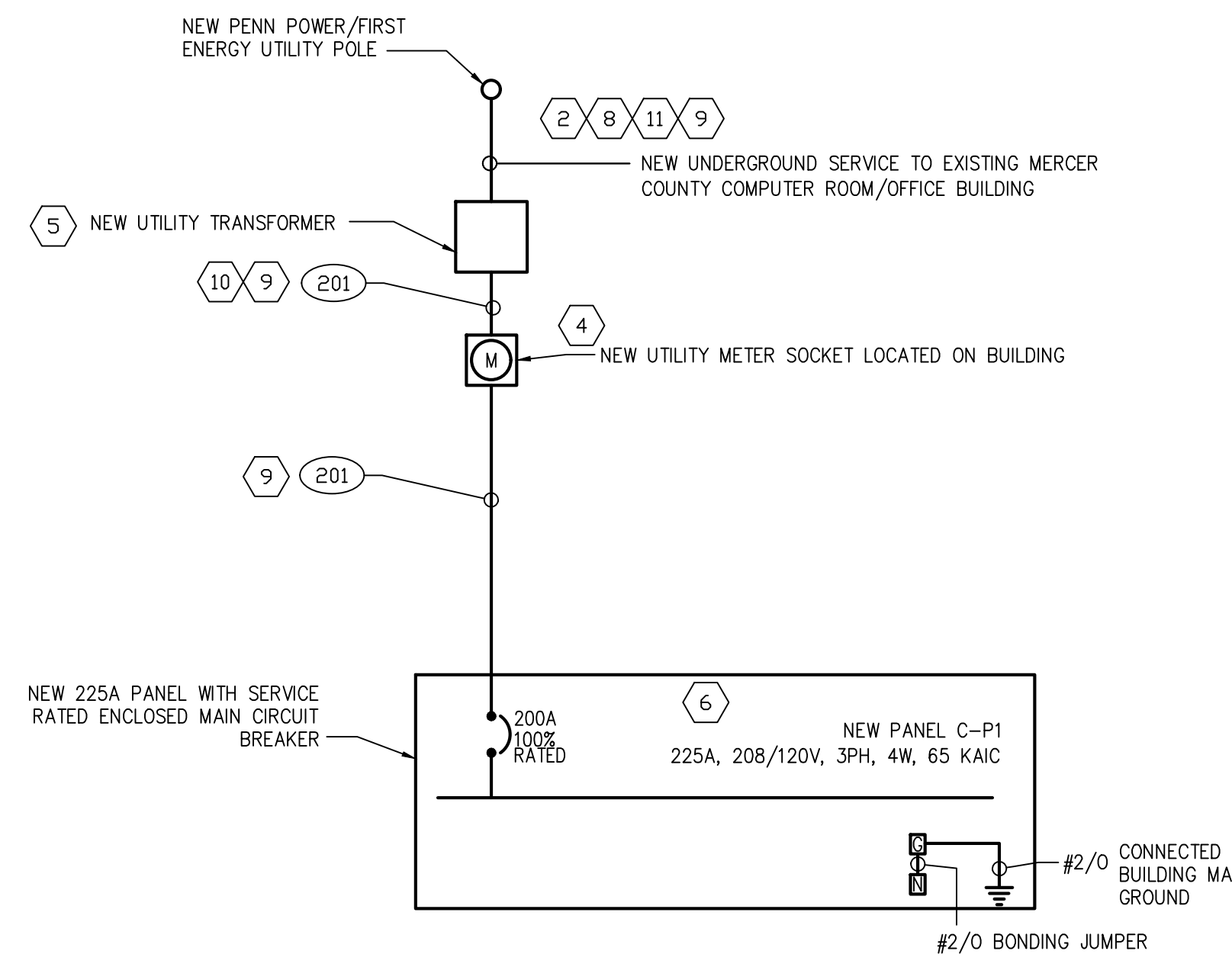
**NOTES**



**SINGLE LINE DIAGRAM – DEMOLITION**  
SCALE: NTS

**DEMOLITION KEY NOTES**

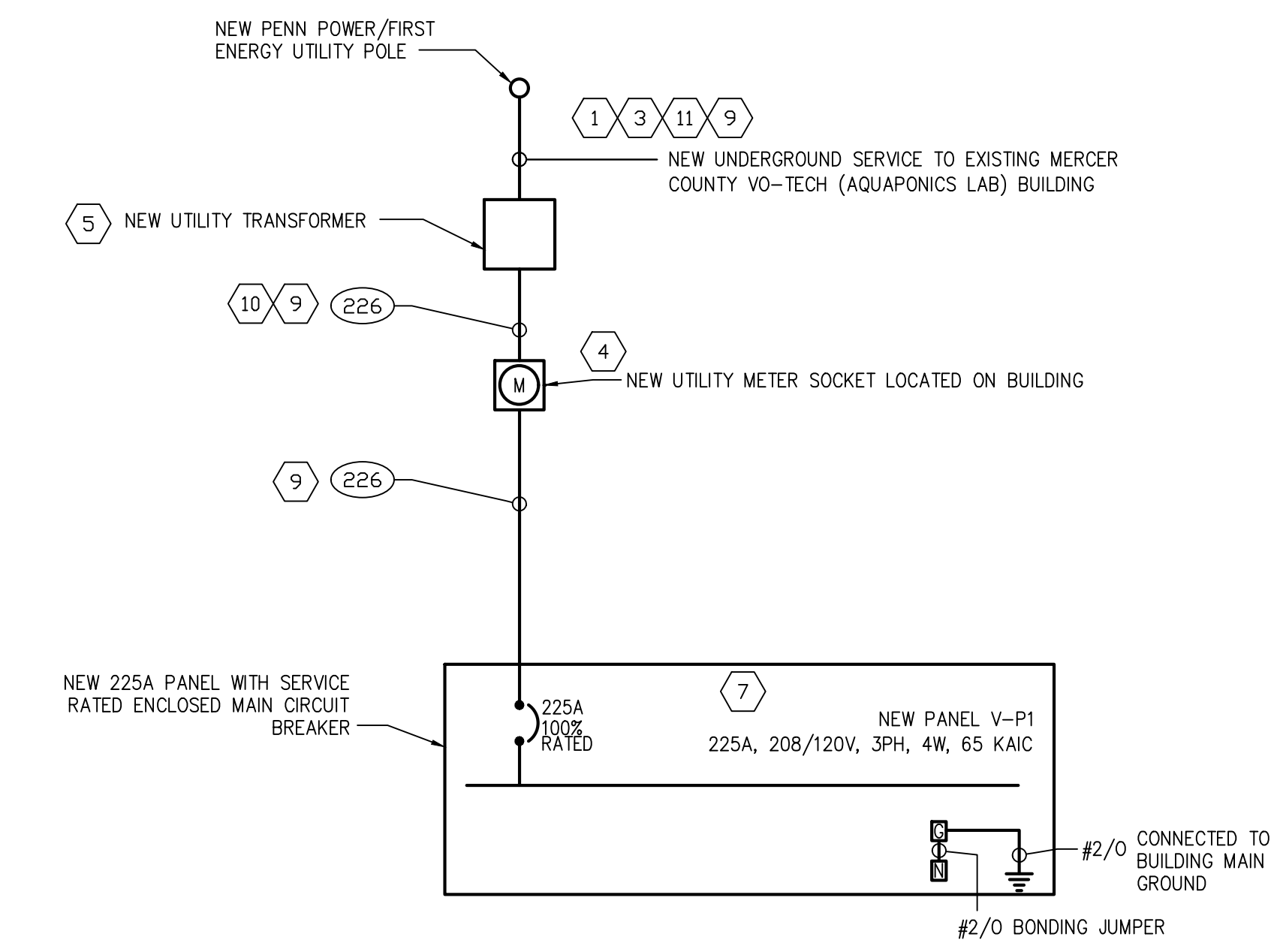
- 1 REMOVE EXISTING SERVICE CABLES AFTER NEW SERVICE ENTRANCE CABLES AND CONDUIT HAVE BEEN INSTALLED AND NEW SERVICE IS OPERATIONAL. DISCONNECT AND REMOVE EXISTING MAIN SERVICE ENTRANCE WIRE FROM METER SOCKET. REMOVE OVERHEAD SERVICE WIRE AND CONDUIT FROM METER SOCKET OUT TO FIRST UTILITY POLE FROM BUILDING. REMOVE ALL EXISTING UNDERGROUND SERVICE ENTRANCE WIRES TO EXISTING MAINTENANCE BUILDINGS. CONDUIT TO BE CUT AND CAPPED AT GRADE. COORDINATE WITH UTILITY COMPANY AND FACILITIES MANAGEMENT FOR SCHEDULING DOWNTIME AND REMOVAL. SEE NEW POWER AND SYSTEM DRAWING FOR MORE INFORMATION.
- 2 REMOVE EXISTING METER SOCKET.



**SINGLE LINE DIAGRAM – NEW WORK  
COUNTY COMPUTER ROOM/OFFICE BUILDING**  
SCALE: NTS

**NEW WORK KEY NOTES**

- 1 PROVIDE CONDUIT UNDERGROUND FROM TRANSFORMER PRIMARY TO NEW UTILITY TERMINATION POLE AS SHOWN. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF NEW POLE AND EQUIPMENT WITH PENN POWER/FIRST ENERGY UTILITY COMPANY PRIOR TO START OF WORK. PROVIDE CONDUIT WITH PULL STRING FROM NEW UTILITY TERMINATION POLE TO BUILDING FOR COMMUNICATIONS. COORDINATE EXACT REQUIREMENTS WITH ARMSTRONG UTILITY PRIOR TO START OF WORK. CONDUITS ARE TO BE PVC SCHEDULE 80 AND SIZED AS REQUIRED BY UTILITY. SEE PLAN DRAWING E-102 FOR ROUTING AND MORE INFORMATION.
- 2 PROVIDE CONDUIT UNDERGROUND FROM TRANSFORMER PRIMARY TO NEW UTILITY TERMINATION POLE AS SHOWN. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF NEW POLE AND EQUIPMENT WITH PENN POWER/FIRST ENERGY UTILITY COMPANY PRIOR TO START OF WORK. PROVIDE CONDUIT WITH PULL STRING FROM NEW UTILITY POLE TO BUILDING FOR COMMUNICATIONS. COORDINATE EXACT REQUIREMENTS WITH ARMSTRONG UTILITY PRIOR TO START OF WORK. CONDUITS ARE TO BE PVC SCHEDULE 80 AND SIZED AS REQUIRED BY UTILITY. SEE PLAN DRAWING E-102 FOR ROUTING AND MORE INFORMATION.
- 3 COORDINATE INSTALLATION WITH PENN POWER/FIRST ENERGY UTILITY AND FACILITIES MANAGEMENT FOR SCHEDULING DOWNTIME AND RECONNECTION. PENN POWER WORK ORDER #776237118
- 4 COORDINATE ALL WORK REQUIREMENTS AND TIMING OF WORK REGARDING UTILITY TRANSFORMERS AND METER WITH THE UTILITY COMPANY PRIOR TO START OF WORK. PROVIDE ALL LABOR AND MATERIAL REQUIRED FOR A COMPLETE INSTALLATION. METER SOCKET SHALL BE PROVIDED AS REQUIRED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE PLAN DRAWINGS FOR LOCATION OF METER. COORDINATE EXACT EQUIPMENT AND LOCATIONS WITH UTILITY COMPANY.
- 5 NEW UTILITY PAD MOUNTED TRANSFORMER. COORDINATE ALL WORK REQUIREMENTS REGARDING UTILITY TRANSFORMER AND METER SOCKET WITH THE UTILITY COMPANY PRIOR TO START OF WORK. UTILITY COMPANY SHALL PROVIDE PAD MOUNTED TRANSFORMER AND METER. COORDINATE EXACT EQUIPMENT, LOCATIONS AND ALL WIRING/CONNECTION REQUIREMENTS WITH UTILITY COMPANY. SEE E-602, ELECTRICAL SCHEDULES AND DETAILS DRAWING, FOR FIRST ENERGY'S CONCRETE FLAT – PAD FOUNDATION DETAIL.



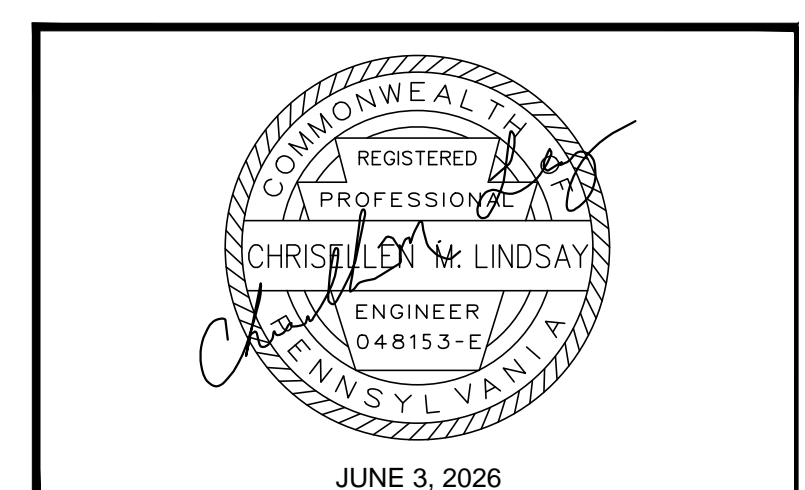
**SINGLE LINE DIAGRAM – NEW WORK  
VO-TECH (AQUAPONICS LAB)**  
SCALE: NTS

- 6 PROVIDE AND INSTALL NEW 208/120V, 3PH, 4W, 225A, 42 CIRCUIT, 65KAIC RATED PANEL C-P1. PROVIDE NEW CIRCUITS AND CIRCUIT BREAKERS AS INDICATED ON PANEL SCHEDULES SHOWN ON DRAWING E-602. PROVIDE NEW 200 AMP SERVICE RATED MAIN CIRCUIT BREAKER. CIRCUIT BREAKER SHALL BE 100% RATED. REFER TO ELECTRICAL POWER DEMOLITION PLAN, ELECTRICAL POWER NEW WORK PLAN AND PANEL SCHEDULE DRAWINGS FOR CIRCUIT INFORMATION. MAINTAIN CONTINUITY OF EXISTING TO REMAIN BRANCH CIRCUITS.
- 7 PROVIDE AND INSTALL NEW 208/120V, 3PH, 4W, 225A, 54 CIRCUIT, 65KAIC RATED PANEL V-P1. PROVIDE NEW CIRCUITS AND CIRCUIT BREAKERS AS INDICATED ON PANEL SCHEDULES SHOWN ON DRAWING E-602. PROVIDE NEW 225 AMP SERVICE RATED MAIN CIRCUIT BREAKER. CIRCUIT BREAKER SHALL BE 100% RATED. REFER TO ELECTRICAL POWER DEMOLITION PLAN, ELECTRICAL POWER NEW WORK PLAN AND PANEL SCHEDULE DRAWINGS FOR CIRCUIT INFORMATION. MAINTAIN CONTINUITY OF EXISTING TO REMAIN BRANCH CIRCUITS.
- 8 COORDINATE INSTALLATION WITH PENN POWER/FIRST ENERGY UTILITY AND FACILITIES MANAGEMENT FOR SCHEDULING DOWNTIME AND RECONNECTION. PENN POWER WORK ORDER #776237076
- 9 CONDUIT SIZE HAS BEEN UPSIZED TO 4" FOR FUTURE EXPANSION.
- 10 NEW CONDUIT AND SERVICE CABLES UNDERGROUND FROM UTILITY PAD MOUNTED TRANSFORMER TO METER BY ELECTRICAL CONTRACTOR. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF EQUIPMENT WITH UTILITY COMPANY PRIOR TO START OF WORK. CONDUITS TO BE PVC SCHEDULE 80. COORDINATE INSTALLATION WITH UTILITY COMPANY AND FACILITIES MANAGEMENT FOR SCHEDULING DOWNTIME AND RECONNECTION.
- 11 NEW PRIMARY SERVICE CABLES BETWEEN NEW UTILITY PAD MOUNTED TRANSFORMER AND UTILITY POLE PROVIDED BY UTILITY COMPANY. COORDINATE INSTALLATION WITH UTILITY COMPANY AND FACILITIES MANAGEMENT FOR SCHEDULING DOWNTIME AND RECONNECTION.

**NEW BRANCH CIRCUIT AND FEEDER SCHEDULE**

FEEDER CONDUCTORS NOT INDICATED AS EITHER COPPER (CU) OR ALUMINUM (AL) ARE TO BE CONSIDERED AS COPPER CONDUIT TO BE BASED ON EMT UNLESS OTHERWISE NOTED.

20	3 #12 & 1 #12 GND IN 3/4" C.	50	3 #8 & 1 #10 GND IN 3/4" C.	82	2 #4 & 1 #8 GND IN 1" C.	225	3 #4/0 & 1 #4 GND IN 2" C.
21	4 #12 & 1 #12 GND IN 3/4" C.	51	4 #8 & 1 #10 GND IN 3/4" C.	101	4 #2 & 1 #8 GND IN 2" C.	226	4 #4/0 & 1 #4 GND IN 4" C. (9)
22	2 #12 & 1 #12 GND IN 3/4" C.	52	2 #8 & 1 #10 GND IN 3/4" C.	102	2 #2 & 1 #8 GND IN 1-1/4" C.	300	3 #350kcmil & 1 #4 GND IN 3" C.
30	3 #10 & 1 #10 GND IN 3/4" C.	60	3 #6 & 1 #10 GND IN 1" C.	150	3 #1/0 & 1 #6 GND IN 1-1/2" C.	401	4 #500kcmil & 1 #3 GND IN 3-1/2" C.
31	4 #10 & 1 #10 GND IN 3/4" C.	61	4 #6 & 1 #10 GND IN 1" C.	200	3 #3/0 & 1 #6 GND IN 2" C.	600	2 SETS (4 #350kcmil IN 3" C.)
32	2 #10 & 1 #10 GND IN 3/4" C.	62	2 #6 & 1 #10 GND IN 1" C.	201	4 #3/0 & 1 #6 GND IN 4" C. (9)	601	2 SETS (4 #350kcmil & 1 #1 GND IN 3" C.)



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**ELECTRICAL SINGLE LINE**

