COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF MILITARY AND VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA

JOSH SHAPIRO, GOVERNOR

MAJOR GENERAL MARK J. SHINDLER, THE ADJUTANT GENERAL

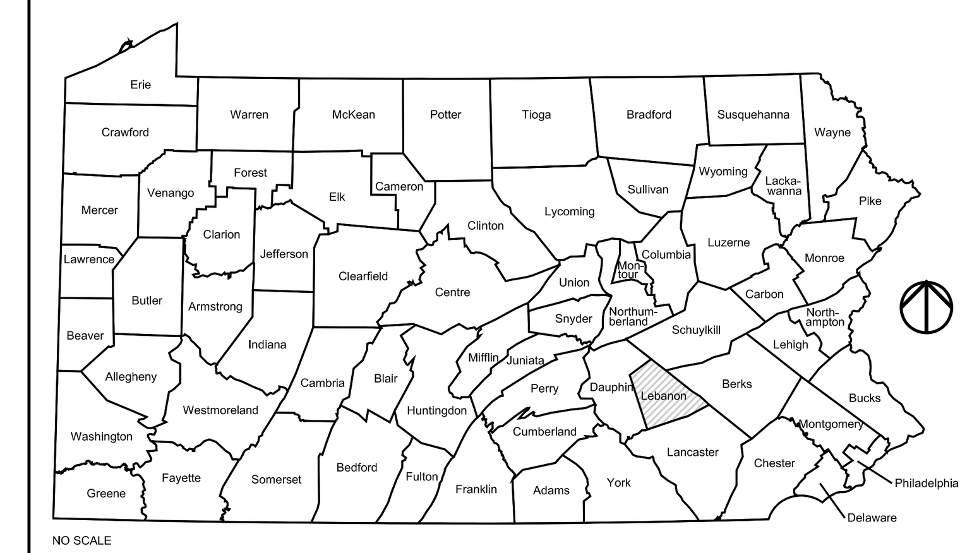
PROJECT NO.: 42230136
BLDG 16-153 RENOVATION
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

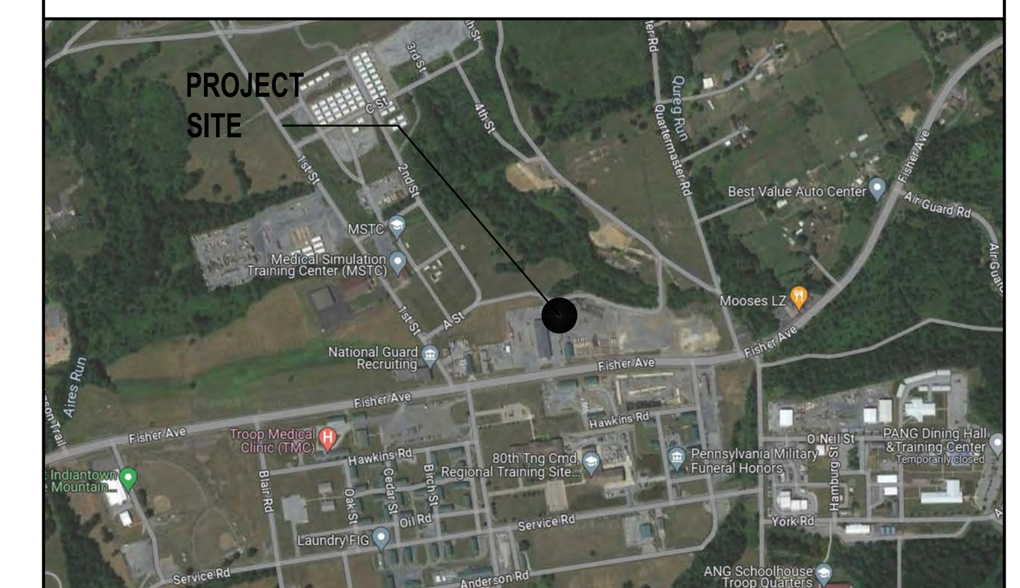
INDEX TO DRAWINGS

CODE APPROVALS

PROJECT LOCATION MAP



VICINITY MAP



CAMPUS / KEY PLAN

NO.	DESCRIPTION	DATE

REVISIONS

Drawings Listed In Index:

BEA Electronic Approval DATE ________

Professional's Signature Date Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY AND VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BLDG. 0-10, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

DMVA PROJECT NO. 42230136

BLDG 16-153
RENOVATION
FISHER AVE.
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

COVER SHEET

DRAWN BY	DATE	DRAWING NO.
M. MORRIS	15 MAR 2024	G.1.1
CHECKED BY	SCALE	
J. NYE	AS NOTED	

SITE / CIVIL LEGEND

EXISTING	PROPOSED	
450	450	CONTOUR LINE
SS	SS	SANITARY SEWER
W	W	WATER LINE
Ex	Ex	ELECTRIC - UNDERGROUND
Ex	Ex	ELECTRIC - OVERHEAD
		FENCELINE
Tv	Tv	COMMUNICATION - UNDERGROUND
Gx	Gx	NATURAL GAS
		STORM SEWER
		WATER VALVE
		GAS VALVE
MH-SAN (EXG) RIM = XXX.XX' INV = XXX.XX'	MH-SAN (NEW) RIM = XXX.XX' INV = XXX.XX'	MANHOLE
447.75	447.75	SPOT ELEVATION
BENCHMARK	BENCHMARK	BENCHMARK ELEVATION
		FLOW ARROW
		UTILITY POLE
		FIRE HAYDRANT
		CONCRETE HATCH
		TREE
		POLE MOUNTED AREA LIGHTING
		PENNDOT STANDARD GUIDE RAIL
		WATERLINE CURB STOP
		STORM INLET
YCO	YCO	SANITARY YARD CLEAN OUT
		IRON PIN FOUND
		IRON PIN SET (TO BE SET)
		CONCRETE MONUMENT FOUND
		CONCRETE MONUMENT SET
		STONE PILE
		BERNSTEIN MONUMENT
T	T	ELECTRICAL TRANSFORMER W/ VAULT
G	G	GENERATOR
C	C	COMMUNICATIONS MANHOLE
E	E	ELECTRIC PULL-BOX
		BOLLARD

LOCATION MAP
SCALE: 1" = 2,000'

GENERAL NOTES

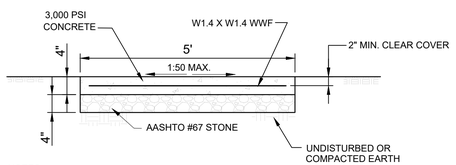
1. THE CONTRACTOR IS REQUIRED TO SUBMIT A REQUEST FOR A DIGGING PERMIT, THROUGH THE DIVISION OF INSTALLATION MANAGEMENT (DIM), BUILDING 11-64, 10 DAYS PRIOR TO CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO THE START OF WORK AND INCLUDE THESE MARKING LOCATIONS ON THE AS-BUILT DRAWINGS. THE CONTRACTOR WILL COORDINATE WITH THE DIM (BLDG. 11-64) IN THE VERIFICATION OF THE EXISTING UTILITIES.
2. THE CONTRACTOR WILL PROVIDE 3 DAY NOTICE PRIOR TO ALL UTILITY CONNECTIONS. THE CONTRACTOR WILL NOTIFY DIM UPON COMPLETION OF THE CONNECTIONS, BUT PRIOR TO BACKFILLING. THE CONTRACTOR WILL NOT BACKFILL ANY UTILITY CONNECTIONS UNTIL DIM INSPECTS AND APPROVES THE WORK.
3. SITE PLAN INFORMATION IS DIAGRAMMATIC AND WAS NOT DERIVED FROM AN ACTUAL ENGINEERING LAND SURVEY. THE FINISHED FLOOR ELEVATION WAS DERIVED FROM FORT INDIANTOWN GAP CONCRETE MONUMENT #13, LOCATED DIRECTLY ACROSS FISHER AVE. FROM THE PROJECT SITE, NORTHING = 404205.784', EASTING = 2303098.522', ELEVATION = 464.14', STATE PLANE COORDINATES PA-SOUTH ZONE, NAD1983, ALL INFORMATION IN US SURVEY FEET.
4. IT WILL BE THE RESPONSIBILITY OF THE .1 CONTRACTOR TO VERIFY EXISTING GRADES AND SURVEY/LAYOUT OF NEW SITE IMPROVEMENTS.

CONSTRUCTION NOTES

1. ALL EXTERIOR ELECTRICAL AND COMMUNICATIONS WORK, UP TO AND INCLUDING THE BACKFILLING AND COMPACTING OF THE SUB-GRADE WILL BE THE RESPONSIBILITY OF THE .4 ELECTRICAL CONTRACTOR. THE .4 ELECTRICAL CONTRACTOR WILL REFER TO THE DIVISION 31 SPECIFICATIONS AND THE CIVIL DRAWINGS FOR ALL EXCAVATION TYPE WORK. THE .1 CONTRACTOR WILL BE RESPONSIBLE FOR ALL WORK ABOVE THE SUB-GRADE AND ALL OTHER SITE/CIVIL WORK ASSOCIATED WITH THIS PROJECT.
2. THE .1 GENERAL CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL AND PROPER DISPOSAL OF ALL BITUMINOUS, AGGREGATE AND SUB-GRADE MATERIAL REQUIRED FOR NEW CONSTRUCTION.
3. SAWCUT CLEAN, STRAIGHT EDGES WHERE NEW PAVEMENT MEETS EXISTING BITUMINOUS PAVEMENT, APPLY SEALER PER SPECIFICATIONS.
4. THE .1 GENERAL CONTRACTOR WILL BE RESPONSIBLE TO REMOVE AND PROPERLY DISPOSE OF ALL FENCING NOTED ON DRAWINGS LABELED FOR (DEMO).
5. DOWNSPOUTS SHOWN ON THE PLAN VIEW ARE FOR DIAGRAMMATIC PURPOSES ONLY. THE .1 CONTRACTOR WILL COORDINATE PLACEMENT, SIZE, TYPE AND TRANSITION OF DOWNSPOUTS TO THE NEW 6" SDR-35 PIPE WITH ARCHITECTURAL DRAWINGS. TRANSITION FROM DOWNSPOUT TO UNDERGROUND DRAIN SYSTEM WILL BE A SEALED CONNECTION, PREVENTING DEBRIS AND RODENTS FROM ENTERING THE DRAINAGE SYSTEM.

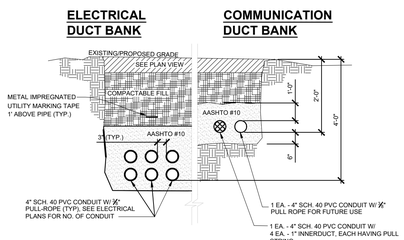
SITE DEMO & NEW FEATURES PLAN

SCALE: 1" = 20'
SCALE IN FEET 20' 10' 0' 20' 40'



NOTES:
- PLACE SCOURED CONTROL JOINTS AT 6 FEET. PLACE BITUMASTIC EXPANSION JOINTS AT 18' AND ALONG CURBING AND STRUCTURES.

1 C.1.0 NEW SIDEWALK SECTION - TYP.
NOT TO SCALE



NOTE: 1. ALL CONDUIT, INNERDUCT AND PULL ROPES/STRINGS BY ELECTRICAL CONTRACTOR. ALL OTHER WORK BY GENERAL CONTRACTOR.
2. COMMUNICATION CONDUIT WILL BE CONCRETE ENCASED BENEATH NEW GRAVEL DRIVE. ENCASEMENT DIMENSIONS WILL MATCH PRIMARY ELECTRICAL TRENCH.
3. IN THE EVENT THAT MULTIPLE COMMUNICATION TRENCHES ARE REQUIRED AND FOLLOW THE SAME PATH AS THE ELECTRIC TRENCH, THE CONTRACTOR WILL INSTALL THE COMMUNICATION TRENCH PARALLEL AND ADJACENT TO THE ELECTRICAL TRENCH, UTILIZING BOTH SIDES OF THE ELECTRICAL TRENCH. THIS METHOD SHOULD BE UTILIZED WHENEVER SITE CONDITIONS DICTATE.

2 C.1.0 NEW ELEC./COMM. SECTION - TYP.
NOT TO SCALE

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL
PA1 SYSTEM, INC. 1-800-242-1776
POCS SERIAL NUMBER
20240582765 (DESIGN)

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

NO.	DESCRIPTION	DATE

REVISIONS

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

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BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

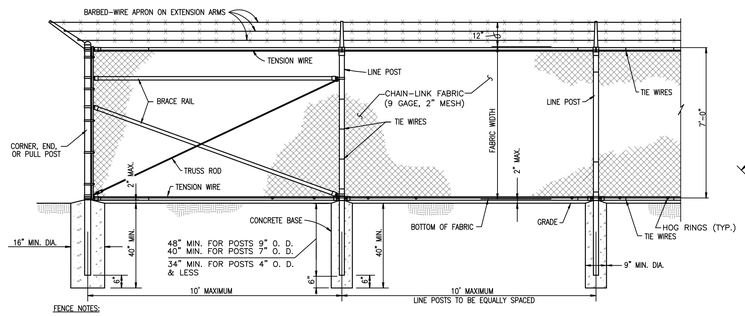
PROJECT NO. 42230136

BLDG. 16-153 RENOVATION

FISHER AVE., FORT INDIANTOWN GAP
UNION TWP., LEBANON CO., ANNVILLE, PENNSYLVANIA

SITE PLAN

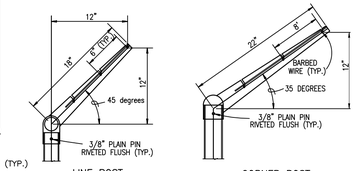
DRAWN BY	DATE	DRAWING NO.
K. LLOYD	15 MAR 2024	C.1.0
CHECKED BY	SCALE	
R. DAUTRICH	AS NOTED	



FENCE NOTES:

1. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURE AREA.

1A / C.2.0 CHAIN-LINK FENCE DETAIL
SCALE: N.T.S.

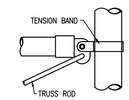


LINE POST

CORNER POST

EXTENSION ARM (SINGLE BRACKET) DETAILS
N.T.S.

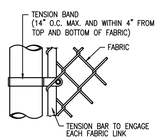
STEEL POST SCHEDULE	
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)
Corner, End & Pull Posts	3" O.D.
Line Posts	3" O.D.
Top, Bottom & Brace Rails	1-5/8" O.D.



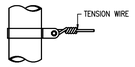
ROUND POST

H-BEAM

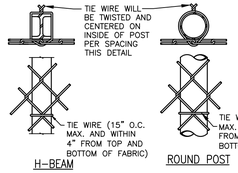
BRACE RAIL CLAMP DETAILS



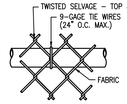
END OR GATE POST DETAIL



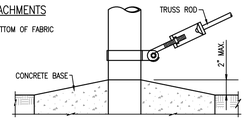
TENSION BAND DETAIL



LINE POST ATTACHMENTS

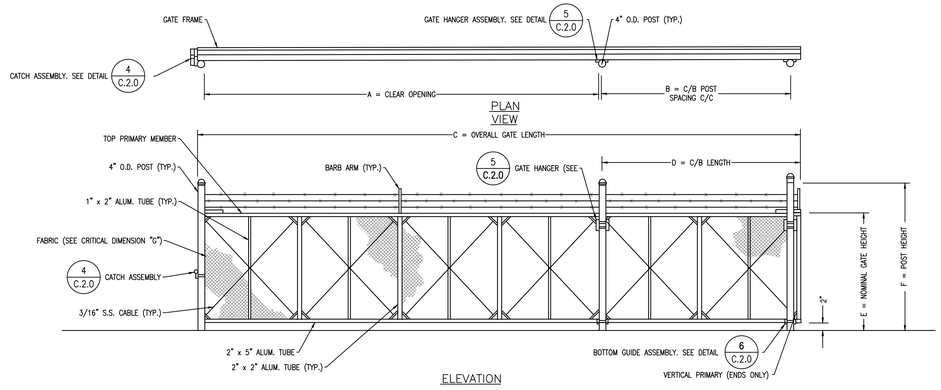


TOP OR BRACE RAIL ATTACHMENT

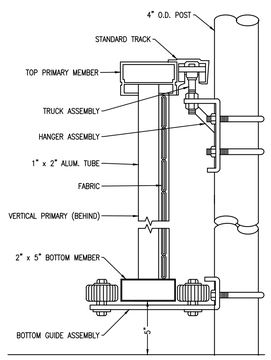


TRUSS ROD AND BAND

2 / C.2.0 FASTENING DETAILS
SCALE: 1/8" = 1'-0"



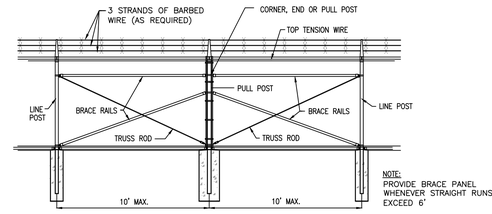
3 / C.2.0 TYPICAL HEAVY DUTY CANTILEVER SLIDE GATE (N.I.C.)
SCALE: N.T.S.



NOTES:

1. BARB ARMS ARE OPTIONAL
2. GATE ELEVATION IS VIEWED FROM THE OUTSIDE OF THE SECURE AREA LOOKING IN.

ASSEMBLY SECTION



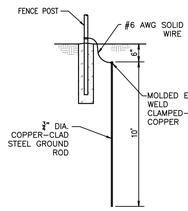
NOTE:
PROVIDE BRACE PANEL WHENEVER STRAIGHT RUNS EXCEED 6'

7 / C.2.0 BRACE PANEL DETAIL
SCALE: N.T.S.

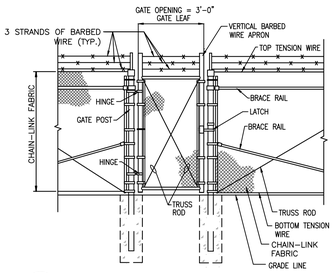
CRITICAL DIMENSION CHART		
A	CLEAR OPENING	**
B	COUNTERBALANCE POST SPACING C/C	*
C	OVERALL GATE LENGTH	*
D	COUNTERBALANCE LENGTH	*
E	NOMINAL GATE HEIGHT	7'
F	POST HEIGHT	*
G	FABRIC HEIGHT	*

*CRITICAL DIMENSIONS TO BE DETERMINED BY MANUFACTURER. CONTRACTOR TO VERIFY AND COORDINATE MANUFACTURER'S SPECIFICATIONS PRIOR TO PURCHASE AND SHALL FOLLOW MANUFACTURER GUIDELINES DURING INSTALLATION.

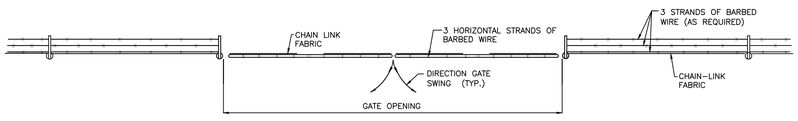
** SEE SHEET C.1.0 FOR CLEAR OPENING DIMENSIONS



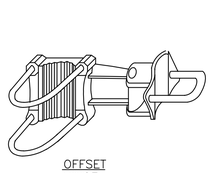
8 / C.2.0 GROUNDING DETAIL
SCALE: N.T.S.



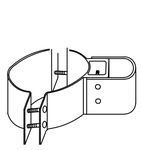
9 / C.2.0 PERSONNEL GATE
SCALE: N.T.S.



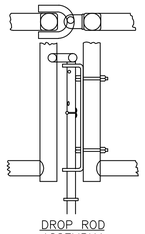
10 / C.2.0 TYPICAL DOUBLE SWING GATE
SCALE: N.T.S.



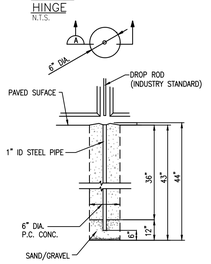
OFFSET HINGE
N.T.S.



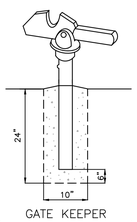
STANDARD HINGE
N.T.S.



DROP ROD ASSEMBLY
N.T.S.

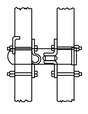


DROP ROD FOUNDATION
N.T.S.



GATE KEEPER (TO HOLD GATE OPEN)

SWING GATE DETAILS
N.T.S.



LATCH ASSEMBLY
N.T.S.

GATE POST SCHEDULE	
GATE LEAF WIDTH (NOMINAL)	OUTSIDE DIMENSION (NOMINAL)
6' OR LESS	3" O.D.
MORE THAN 6' TO 13'	4" O.D.
MORE THAN 13' TO 18'	7" O.D.
MORE THAN 18'	9" O.D.

GATE NOTES:

DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPE OF FENCE SECTIONS AND METHODS OF INSTALLATION.

SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT AS NOTED.

ALL GATE FRAMES SHALL BE A MINIMUM 2" NOMINAL (ROUND) OR 2" NOMINAL (SQUARE). GATE FRAMES SHALL BE OF WELDED CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. AT CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.

CONTRACTOR SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS AND GUIDELINES FOR INSTALLATION.

NO.	DESCRIPTION	DATE
	REVISIONS	

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERANS' AFFAIRS
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ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO. 42230136

BLDG. 16-153 RENOVATION

FISHER AVE., FORT INDIANTOWN GAP
UNION TWP., LEBANON CO., ANNVILLE, PENNSYLVANIA

FENCE DETAILS

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
K. LLOYD	15 MAR 2024	C.2.0
CHECKED BY	SCALE	
R. DAUTRICH	AS NOTED	

1-0 GENERAL NOTES

1. At least 10 days before starting any earth disturbance activities, the contractor shall invite all Guardsmen and maintenance personnel involved in those activities, the landowner, all appropriate municipal officials, the erosion and sedimentation control plan preparer, and a representative of the Lebanon Conservation District at 717-277-5275 to schedule an on-site pre-construction meeting. Also, at least 3 days before starting any earth disturbance activities, the contractor shall notify the Pennsylvania One Call System Inc. at 1-800-242-1776 for buried utilities location.

2. Before implementing any revisions to the approved erosion and sediment control plan or revisions to other plans which may affect the effectiveness of the approved E&S control plan, the contractor receive written approval of the revisions from the Lebanon Conservation District.

3. The contractor shall remove from the site, recycle or dispose of all waste materials (tree stumps, brush etc.) in accordance with the Department's Solid Waste Management Regulations at 25 PA Code 260.1 et seq., 271.1 e. seq. and 287.1 et seq.

4. Before disposing of soil or receiving borrow for the site, the contractor must assure that each spoil or borrow area has an erosion and sediment control plan approved by the Lebanon Conservation District, and which is being implemented and maintained according to Chapter 102 regulations. The contractor shall also notify the Lebanon Conservation District in writing of all receiving spoil and borrow areas when they have been identified.

5. Only limited disturbance will be permitted to provide access to construct construction BMPs.

6. Erosion and sedimentation controls must be constructed, stabilized, and functional before site disturbance within the tributary areas of those controls.

7. After final site stabilization has been achieved, temporary erosion and sedimentation controls must be removed. Areas disturbed during removal of the controls must be stabilized immediately.

8. At the end of each working day, any sediment tracked or conveyed onto a public roadway will be removed and redeposited onto the construction site. Removal can be completed through use of mechanical or hand tools, but must never be washed off the road by use of water.

9. Sediment removed from E&SPC controls & facilities shall be disposed of in landscaped areas outside of steep slopes, wetlands, floodplains or drainage swales and immediately stabilized, or placed in topsoil stockpiles.

10. All pumping of sediment laden water shall be through a dirt bag filtration device, or equivalent sediment removal facility, over non-disturbed vegetated areas. Discharge points should be established to provide for maximum distance to active waterways.

11. Should unforeseen erosive conditions develop during construction, the contractor shall take immediate action to remedy such conditions and to prevent damage to adjacent properties as a result of increased runoff and/or sediment displacement. Stockpiles of wood chips, hay bales, crushed stone and other mulches shall be held in readiness to deal immediately with emergency problems of erosion.

12. The contractor is advised to become thoroughly familiar with the provisions of the Appendix 64, Erosion Control Rules and Regulations, Title 25, Part 1, Department of environmental Protection, Subpart C, Protection of Natural Resources, Article III, Water Resources, Chapter 102, Erosion Control.

13. A copy of this erosion and sedimentation control report and plans must be posted at the construction site.

14. Failure to correctly install sediment control facilities **or** failure to prevent sediment laden runoff from leaving the construction site **or** failure to take corrective actions to immediately resolve failures of sediment control facilities may result in administrative, civil and/or criminal penalties being instituted by the Pennsylvania Department of Environmental Protection as defined in Section 602 of the Clean Streams Law of Pennsylvania. The Clean Streams Law provides for up to $10,000 per day in civil penalties, up to $10,000 in summary criminal penalties, and up to $25,000 in misdemeanor criminal penalties for each violation.

2-0 STABILIZATION NOTES

1. Stockpile heights must not exceed 35'. Stockpile slopes must be 2:1 or flatter.

2. Upon completion of an earth disturbance activity or any stage or phase of an activity, the contractor shall stabilize immediately the disturbed areas to protect from accelerated erosion. During non-germinating periods, mulch must be applied at the specified rates. Disturbed areas which are not at finished grade and which will be redisturbed within 1 year may be stabilized in accordance with temporary seeding specifications. Disturbed areas, which are either at finished grade or will not be redisturbed within 1 year, must be stabilized in accordance with permanent seeding specifications.

3. Stockpiles must be stabilized immediately.

4. Hay or straw mulch must be applied at rates of at least 3.0 tons per acre.

5. Until the site has achieved final stabilization the contractor shall properly implement, operate and maintain all the best management practices. Maintenance shall include inspections of all erosion and sedimentation control after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, remulching, and renetting, must be performed immediately.

6. An area shall be considered to have achieved final stabilization when it has a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding or other movements.

7. Mulch with mulch control netting or erosion control blankets must be installed on all slopes greater than 3:1.

2-1 COMPOST FILTER SOCK

1. Compost sock should be placed parallel to contours with both ends of the sock extended upslope at a 45 degree angle to the rest of the sock to prevent end-arounds.

2. Socks placed on earthen slopes should be anchored with stakes driven through the center of the sock or immediately down slope of the sock as per detail.

3. Any section of compost sock, which has been undermined or topped, must be immediately replaced.

3-0 CONSTRUCTION SEQUENCE NOTES

1. All earth disturbance activities shall proceed in accordance with the following sequence. Each stage shall be completed in compliance with Chapter 102 regulations before any following stage is initiated. Clearing and grubbing shall be limited only to those areas described in each stage.

2. Flag the limit of disturbance and install construction entrance.

3. Install compost filter sock as per plan.

4. Mobilize construction equipment.

5. Clear and grub the site within the limits of disturbance.

6. Strip topsoil and stockpile and stabilize.

7. Excavate for site improvements.

8. Install drainage pipes, backfill, compact, spread topsoil and seed.

9. After site is stabilized , remove temporary BMP's and stabilize.

4.0 GROUND COVER

4.1 Temporary Seeding

1. All grass areas disturbed by the work of this Project shall be seeded as follows:

2. Temporary seeding shall be done in areas where active work will not be performed for twenty days (20). Temporary seeding shall be done immediately after work ceases.

3. Apply agricultural lime and fertilizer as follows for temporary seeding:

3.1. Agricultural Lime -- 50 pounds per 1,000 square feet
3.2. Fertilizer -- 12 pounds per 1,000 square feet

4. Fertilizer shall be a commercial type 10-20-20.

5. Temporary seed mixture Annual Ryegrass -- 1 pound per 1,000 square feet.

6. All temporary seeding shall be mulched. Temporary seeding shall be watered as required to develop cover.

7. Mulch shall be straw, shall be clean and free from noxious weeds, and shall be applied at the rate of 140 pounds per 1,000 square feet.

Permanent Seeding

1. Permanent seeding shall take place in all disturbed areas as follows:

2. **Fertilization:** The following shall be spread and worked into the topsoil to a depth of 3 to 4 inches.

2.1. Agricultural Lime - 275 pounds per 1,000 square feet
2.2. Fertilizer - 25 pounds per 1,000 square feet

3. The fertilizer shall be a commercial type 10-20-20.

4. **Note:** If agricultural lime and fertilizer have been applied previously to the ground where the permanent seed is to be applied, the lime and fertilizer rates shall be reduced by the amount by what has been applied previously.

5. **Permanent Seed Mixture:** The following seed mixtures shall be applied as follows:

6. **FTIG ITAM Mix (requires proper legume inoculants)**

6.1. 10% Annual Ryegrass
6.2. 25% Perennial Regrass
6.3. 20% Medium Ryegrass
6.4. 10% White Ladino Clover
6.5. 10% White Dutch Clover
6.6. 10% Vernal Alfalfa
6.7. 10% Norcen Birdsfoot Trefoil
6.8. 5% Crimson

7. **PENNDOT Formula L Low Grow Mix**

7.1. 35% Creeping Red Fescue
7.2. 27.5% Defiant Hard Fescue
7.3. 27.5% Stonehenge Fescue
7.4. 10% Annual Ryegrass

8. **FTIG Legume Mix(plant with Low Grow at rate 10#/acre, requires inoculant)**

8.1. 20% White Ladino Clover
8.2. 10% Medium Red Clover
8.3. 10% Mammoth Red Clover
8.4. 10% White Dutch Clover
8.5. 10% Alsike Clover
8.6. 20% Vernal Alfalfa
8.7. 10% Norcen Birdsfoot Trefoil
8.8. 10% Crimson Clover

8.9. *All mixtures given above are for PLS - Pure Live Seed 100%. To calculate PLS, the percentage of pure seed is multiplied by the percentage of germination, and the product is divided by 100. (85% pure seed x 72% germination) divided by 100 = 61% PLS. To determine how much seed to plant, divide the percentage into 100. Example: 100 divided by 61 = 1.63. Thus, every pound of seed mixture called for should then be 1.63 lbs.

9. **Mulch:** Apply mulch to all permanently seeded areas.

9.1. Materials: Straw, air-dried and free from undesirable seeds and course materials. Application: 140 pounds per 1,000 square feet.

5.0 MAINTENANCE PROGRAM

5.1 Emergency Erosion Protection

1. If erosion does occur, the contractor shall repair and reseed those areas or use other stabilization methods as required. The contractor shall use jute, wood fiber, or other tie down filter netting on top of the new seed as required, regardless of the slope of the land.

2. Mulched areas shall be checked weekly and immediately after severe storms for damage, until the mulching is no longer necessary for protection against erosion. Damaged portions of the mulch or tie down materials shall be repaired as soon as discovered.

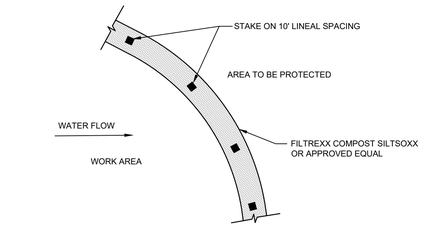
5.2 Periodic Inspection Program

1. The contractor will regularly inspect the Project's erosion and sedimentation controls during the entire active construction stages. The inspections will be performed weekly or after all runoff events and the inspections shall be documented and records of repairs keep on site. The contractor will be responsible for the installation, operation, maintenance, and removal of all erosion and sedimentation controls. All preventative and remedial maintenance work, including clean out repair, replacement, regrading, reseeding, remulching, and renetting must be performed immediately. Sediment that has been trapped by the silt soxx will be removed as required, and in all cases, before the accumulation has reached half the height of the BMP. Compost filter sock will be re-anchored, repaired, or replaced as necessary. All other controls will be inspected on the same schedule. If erosion and sediment control BMPs fail to perform as expected, replacement BMPs, or modification of those installed will be required.

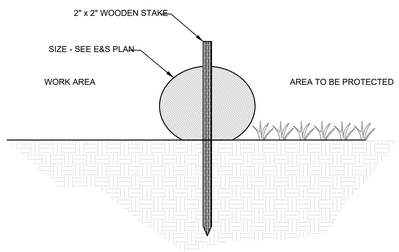
5.3 Removal of Controls and Continuing Maintenance

1. All required temporary erosion and sedimentation controls shall remain in place and be maintained until the area they protect has been stabilized.

2. An area shall be considered to have achieved final stabilization when it has a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding or other movements.



PLAN

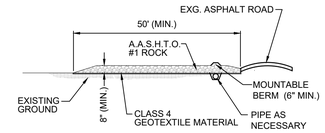


SECTION

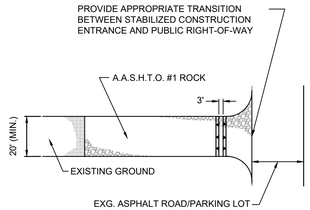
MAINTENANCE NOTES:

1. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT CONTROL IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
2. IF THE SEDIMENT CONTROL HAS BEEN DAMAGED, IT SHALL BE REPAIRED, OR REPLACED IF BEYOND REPAIR.
3. THE CONTRACTOR SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE SEDIMENT CONTROL WHEN ACCUMULATION HAS REACHED ½ OF THE EFFECTIVE HEIGHT OF THE SEDIMENT CONTROL, OR AS DIRECTED BY THE ENGINEER. ALTERNATIVELY, A NEW SEDIMENT CONTROL CAN BE PLACED ON TOP OF AND SLIGHTLY BEHIND THE ORIGINAL ONE CREATING MORE SEDIMENT STORAGE CAPACITY WITHOUT SOIL DISTURBANCE.
4. SEDIMENT CONTROL SHALL BE MAINTAINED UNTIL DISTURBED AREA ABOVE THE DEVICE HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS CEASED.
5. THE FILTERMEDIA WILL BE DISPERSED ON SITE ONCE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY HAS CEASED, OR AS DETERMINED BY THE ENGINEER.
6. FOR LONG-TERM SEDIMENT AND POLLUTION CONTROL APPLICATIONS, SEDIMENT CONTROL CAN BE SEEDED AT THE TIME OF INSTALLATION TO CREATED A VEGETATIVE FILTERING SYSTEM FOR PROLONGED AND INCREASED FILTRATION OF SEDIMENT AND SOLUBLE POLLUTANTS (CONTAINED VEGETATIVE FILTER STRIP). THE APPROPRIATE SEED MIX SHALL BE DETERMINED BY THE ENGINEER.

1 / C.3.0 FILTER SOCK - TYP
NOT TO SCALE



PROFILE



PLAN

** MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE. **

VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY TO NOR EXIT DIRECTLY FROM THE SITE WITHOUT PASSING THRU A ROCK CONSTRUCTION ENTRANCE.

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE:

ROCK CONSTRUCTION ENTRANCE THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50' INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITIS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

2 / C.3.0 CONSTRUCTION ENTRANCE - TYP.
NOT TO SCALE

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BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO. 42230136

BLDG. 16-153 RENOVATION

FISHER AVE., FORT INDIANTOWN GAP
UNION TWP., LEBANON CO., ANNVILLE, PENNSYLVANIA

SITE NOTES & DETAILS

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
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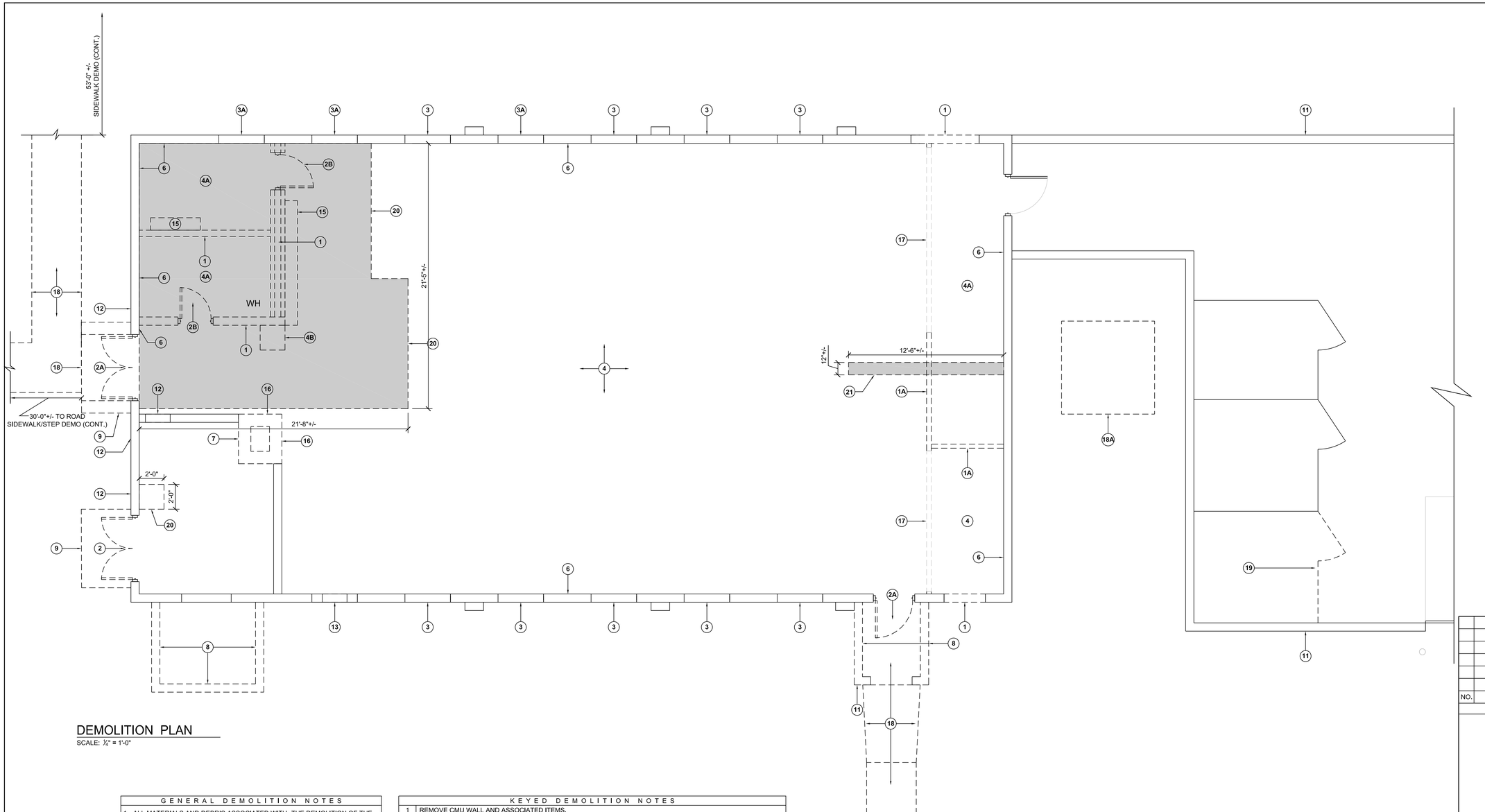
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
K. LLOYD	15 MAR 2024	C.3.0
CHECKED BY	SCALE	
R. DAUTRICH	AS NOTED	

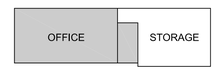


DEMOLITION PLAN

SCALE: ¼" = 1'-0"

GENERAL DEMOLITION NOTES
1. ALL MATERIALS AND DEBRIS ASSOCIATED WITH THE DEMOLITION OF THE EXISTING FACILITY BECOMES THE SOLE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR. EXCEPT, ALL RECYCLABLE MATERIALS SHALL BE RETURNED TO THE DEPARTMENT.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF ALL CONSTRUCTION DEBRIS AND MATERIALS.
3. CONTRACTOR SHALL PROVIDE DUMPSTERS AND OTHER DISPOSAL EQUIPMENT NEEDED FOR THE DEMOLITION PHASE OF THIS PROJECT.
4. CONTRACTOR SHALL OBTAIN ALL NECESSARY DOCUMENTATION REQUIRED FOR THE DEMOLITION PHASE, TO INCLUDE BUT NOT LIMITED TO CERTIFIED DISPOSAL SITE PERMITS, AND DISPOSAL PERMITS, ETC.
5. BUILDING INTERIOR SHALL BE COMPLETELY GUTTED TO EXPOSED FRAMING UPON DEMO COMPLETION.
6. CONTRACTOR TO REMOVE ALL CEILING MOUNTED ITEMS FOUND ABOVE EXIST. CEILING FINISHES.

KEYED DEMOLITION NOTES	
1	REMOVE CMU WALL AND ASSOCIATED ITEMS.
1A	REMOVE PARTITION WALL AND ASSOCIATED ITEMS.
2	REMOVE DOOR, ASSOCIATED FRAME, THRESHOLD AND HARDWARE. PREPARE OPENING FOR NEW DOOR.
2A	REMOVE DOOR, ASSOCIATED FRAME, THRESHOLD AND HARDWARE. PREPARE OPENING FOR NEW FRAMING.
2B	REMOVE DOOR, ASSOCIATED FRAME, THRESHOLD AND HARDWARE.
3	REMOVE PLYWOOD AND ASSOCIATED ITEMS SECURED TO WINDOW OPENING.
4	REMOVE ACOUSTICAL CEILING SYSTEM AND INSULATION ABOVE TO EXPOSE FRAMING.
4A	REMOVE CEILING BOARD AND INSULATION TO EXPOSE FRAMING.
4B	REMOVE CEILING ACCESS/FRAMING (APPROX. 24x24) AND ASSOCIATED ITEMS.
5	REMOVE FLOOR FINISHES (VCT/CARPET), TO EXPOSE FLOOR SUBSTRATE. REMOVE WALL BASE.
6	REMOVE INSULATION BOARD AND GYPSUM WALL BOARD TO EXPOSE CMU SUBSTRATE.
7	REMOVE CHIMNEY AND ASSOCIATED ITEMS TO UNDERNEATH ROOF LINE; CAP REMAINING CHIMNEY AND REPAIR ROOF SUBSTRATE IN PREPARATION FOR NEW ROOF SYSTEM.
8	REMOVE STRUCTURE ENTIRELY; CMU WALLS, CONCRETE ROOF, SLAB AND ASSOCIATED ITEMS.
9	REMOVE AWNING AND ASSOCIATED ITEMS.
10	PLUMBING FIXTURES AND ASSOCIATED ITEMS TO BE REMOVED BY .3 CONTRACTOR. SEE PLUMBING PLANS FOR FURTHER DETAILS.
11	REMOVE GUTTERS, DOWNSPOUTS AND ASSOCIATE ITEMS.
12	REMOVE VENT/GRILLE THRU WALL; PREPARE OPENING FOR NEW FRAMING.
13	REMOVE A/C UNIT THRU WALL; PREPARE OPENING FOR NEW FRAMING.
14	REMOVE FIRE EXTINGUISHERS; SALVAGE FOR REINSTALLATION.
15	REMOVE WALL CABINETS AND ASSOCIATED ITEMS.
16	REMOVE PEELING PAINT AND CLEAN CHIMNEY SUBSTRATE (APPROX. 7'-0" TO 10'-0" A.F.F.)
17	REMOVE BULKHEAD.
18	REMOVE CONCRETE SLAB / SIDEWALK AND ASSOCIATED ITEMS. REFER TO CIVIL DWGS. FOR DETAILS.
18A	REMOVE CONCRETE EQUIPMENT PAD AND ASSOCIATED ITEMS.
19	REMOVE WIRE MESH CAGE, DOOR AND ASSOCIATED ITEMS.
20	REMOVE CONCRETE SLAB AND ASSOCIATED ITEMS ENTIRELY. EXCAVATE AS NECESSARY, COORDINATE WITH PLUMBING CONTRACTOR.
21	REMOVE PORTION OF CONCRETE SLAB FOR ELECTRICAL TRENCHING, COORDINATE FINAL SIZE AND DEPTH WITH ELECTRICAL CONTRACTOR.



KEY PLAN

NOT TO SCALE

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BLDG 16-153 RENOVATION

FISHER AVE.
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DEMOLITION PLAN

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0 1

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NORTH

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M.MORRIS	15 MAR 2024	A.1.0
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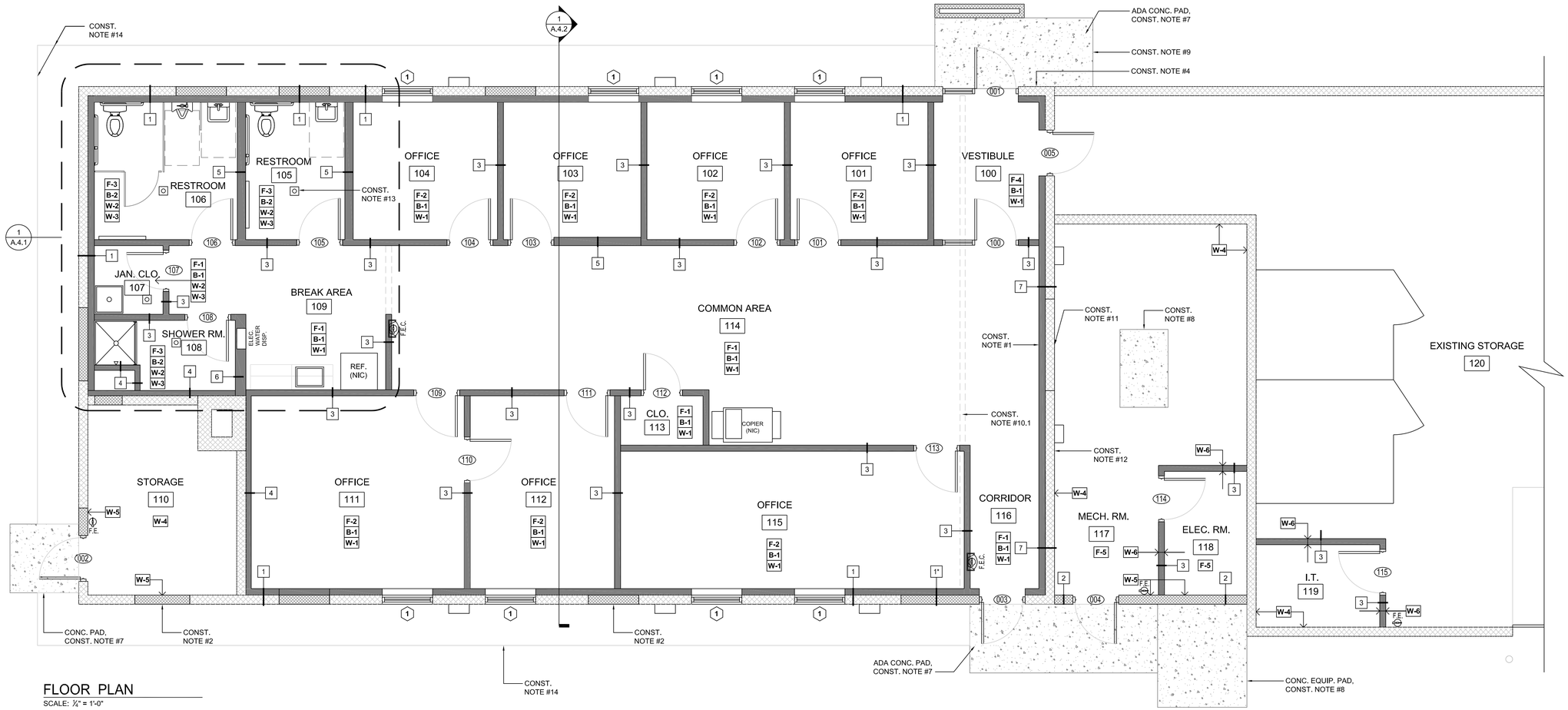
J.NYE	AS NOTED	



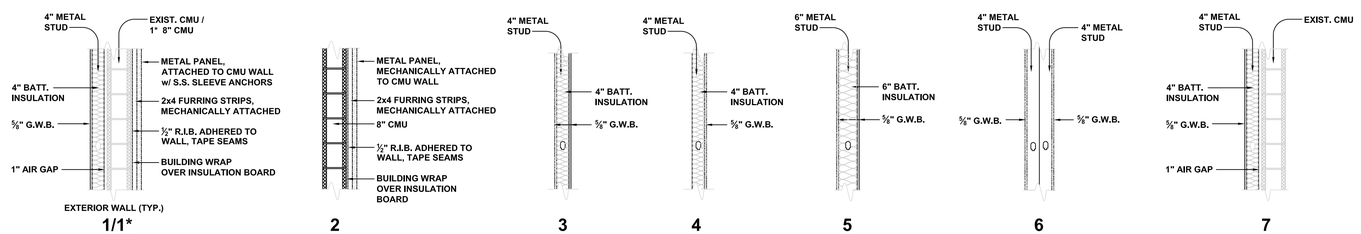
FLOOR PLAN

SCALE: ¼" = 1'-0"

GENERAL NOTES

1. ALL CONTRACTORS SHALL BE AWARE OF THE FACT THAT ALL DRAWINGS PROVIDED FOR THIS PROJECT ARE DIAGRAMMATIC IN NATURE AND REQUIRES FIELD VERIFICATION FOR ACTUAL SITE CONDITIONS THAT WILL EFFECT PROJECT EXECUTION, EXACT QUANTITIES AND DETAILS. THIS DRAWING SHALL NOT BE SCALED FOR DIMENSIONS AND/OR DISTANCES. REPORT ALL DISCREPANCIES TO THE DEPARTMENT BEFORE CONTINUING WORK.
2. PERFORM ALL WORK IN COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.
3. THE JOB SITE SHALL BE MAINTAINED IN A REASONABLY NEAT AND ORDERLY CONDITION AND KEPT FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH DURING THE ENTIRE CONSTRUCTION PERIOD.
4. ALL CONTRACTORS SHALL COORDINATE THEIR WORK AND COOPERATE WITH OTHER TRADES.
5. THE CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING & INSTALLING ALL NECESSARY BLOCKING, SHIMS, AND BACKING FOR FIXTURES, EQUIPMENT AND ACCESSORIES.
6. LOCATIONS OF ALL ROOF, WALL, AND CEILING PENETRATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
7. ALL REMOVED LOCK CORES SHALL BE RETURNED TO THE DEPARTMENT.
8. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH ITS OWN TRADE UNLESS SPECIFICALLY INDICATED OTHERWISE.
9. THE GENERAL (.1) CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE WORK, TO INCLUDE DEMOLITION; UNLESS SPECIFICALLY INDICATED OTHERWISE.
10. ALL EARTH WORK, SITE CLEARING, GRADING, AND SEEDING SHALL BE COMPLETED AS INDICATED IN THE SPECIFICATION SECTIONS 31000, 312000 AND 329200.

WALL TYPES



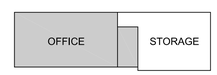
WALL NOTES:

1. GYPSUM BOARD INSTALLED IN RESTROOMS, SHOWER ROOM AND JANITOR CLOSET SHALL BE MOISTURE/MILDEW RESISTANT.
2. RESTROOMS TO RECEIVE FRP (FIBERGLASS REINFORCED PANELS. PANELS ARE TO BE INSTALLED AT A MAXIMUM HEIGHT OF 48" AFF. SEE DWG. A.4.1 FOR FURTHER DETAILS.
3. ALL PARTITION WALLS SHALL EXTEND FROM FLOOR TO UNDERSIDE OF ROOF TRUSSES (±10'-0").
4. GYPSUM WALL BOARD (G.W.B.) SHALL EXTEND 6" BEYOND CEILING HEIGHT.
5. INSULATE WALLS AS INDICATED UTILIZING 4" OR 6" BATT. INSULATION.

CONSTRUCTION NOTES

1. INSTALL ¾" PLYWOOD BLOCKING BETWEEN STUDS AT FULL HEIGHT OF WALL FOR (3) WALL MOUNTED MONITORS (NIC); COORDINATE EXACT LOCATION WITH ELECTRICAL CONTRACTOR.
2. REFER TO 'MASONRY OPENING INFILL' DETAIL, DWG. S.1.1 FOR EXTERIOR OPENINGS TO BE CLOSED.
3. NEW DOOR OPENINGS SHALL BE CONSTRUCTED IN WALLS 6" FROM WALL INTERSECTIONS, TYP. ON HINGE SIDE, IF SPACE ALLOWS. REFER TO 'DOOR SCHEDULE', DWG. A.5.1.
4. KNOX BOX, SERIES 3200, PART 3266. TO BE PROVIDED AND INSTALLED BY THE (.1) CONTRACTOR. COORDINATE LOCATION IN THE FIELD.
5. INFILL OPENING WITH FRAMING WHERE MECHANICAL LOUVER IS REMOVED. REFER TO 'ROOM FINISH SCHEDULE', DWG. A.5.1.
6. FOR FLOOR FINISHES REFER TO ROOM FINISH SCHEDULE, DWG. A.5.1
7. CONCRETE PAD, ELEV. TO MATCH FINISHED FLOOR ELEV. REFER TO CONCRETE DETAILS, DWG. S.1.1.
8. CONCRETE EQUIPMENT PAD, REFER TO 'EQUIPMENT PAD' SECTION AND DETAIL, DWG. S.1.1.
9. REFER TO CIVIL PLAN FOR SIDEWALK CONTINUATION/LOCATION AND DETAILS, DWG. C.1.0.
10. SKIMCOAT CONCRETE SUBSTRATE WITH MORTAR THINSET IN PREPARATION FOR NEW FLOORING MATERIALS. REFER TO FLOORING MANUFACTURER'S WRITTEN INSTRUCTIONS AND PROJECT SPECIFICATIONS.
    10.1. GRIND/SMOOTH CONCRETE SUBSTRATE IN LOCATIONS WHERE WALLS HAVE BEEN REMOVED, TYP.
11. 36x36 ACCESS PANEL THRU WALL TO ATTIC SPACE @ 10'-6"+/- A.F.F.
12. REPOINT AND REPAIR MORTAR JOINTS. REFER TO PROJECT SPECIFICATIONS FOR FURTHER INSTRUCTIONS.
13. FLOOR DRAINS, REFER TO PLUMBING PLAN FOR FURTHER DETAILS. FINISHED FLOORS SHALL SLOPE TOWARDS DRAINS, TYP.
14. INSTALL STONE AT PERIMETER OF BUILDING. REFER TO 'LANDSCAPING DETAIL,' DWG. A.5.1.

* CONSTRUCTION NOTES APPLY TO ENTIRE PROJECT, WHETHER SPECIFICALLY CALLED OUT ON PLAN OR NOT *



KEY PLAN

NOT TO SCALE

NORTH

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BLDG 16-153 RENOVATION

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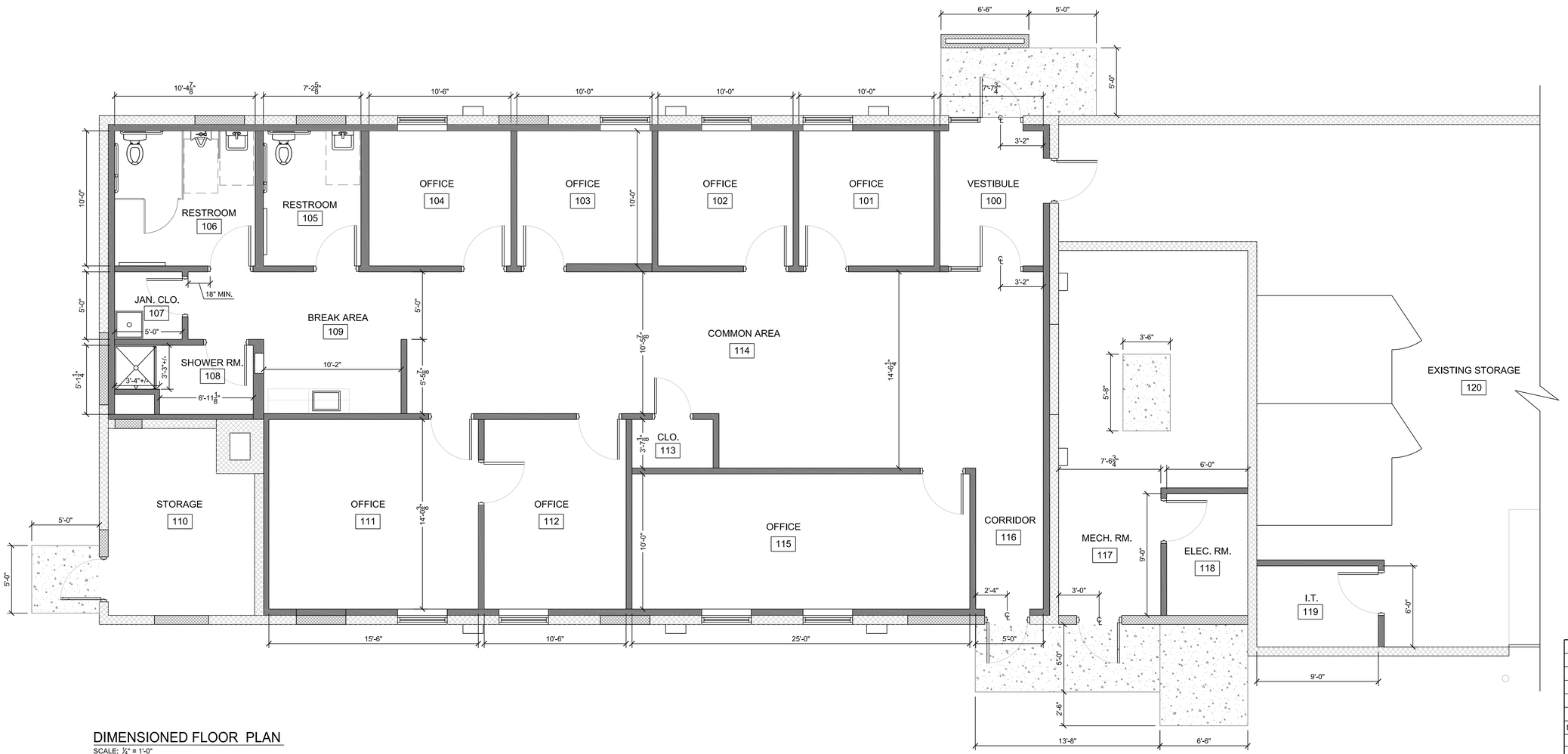
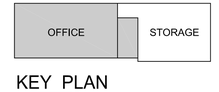
FLOOR PLAN

DRAWN BY	DATE	DRAWING NO.
M.MORRIS	15 MAR 2024	A.1.1
CHECKED BY	SCALE	
J.NYE	AS NOTED	



DIMENSIONED FLOOR PLAN

SCALE: ¼" = 1'-0"



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REVISIONS

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

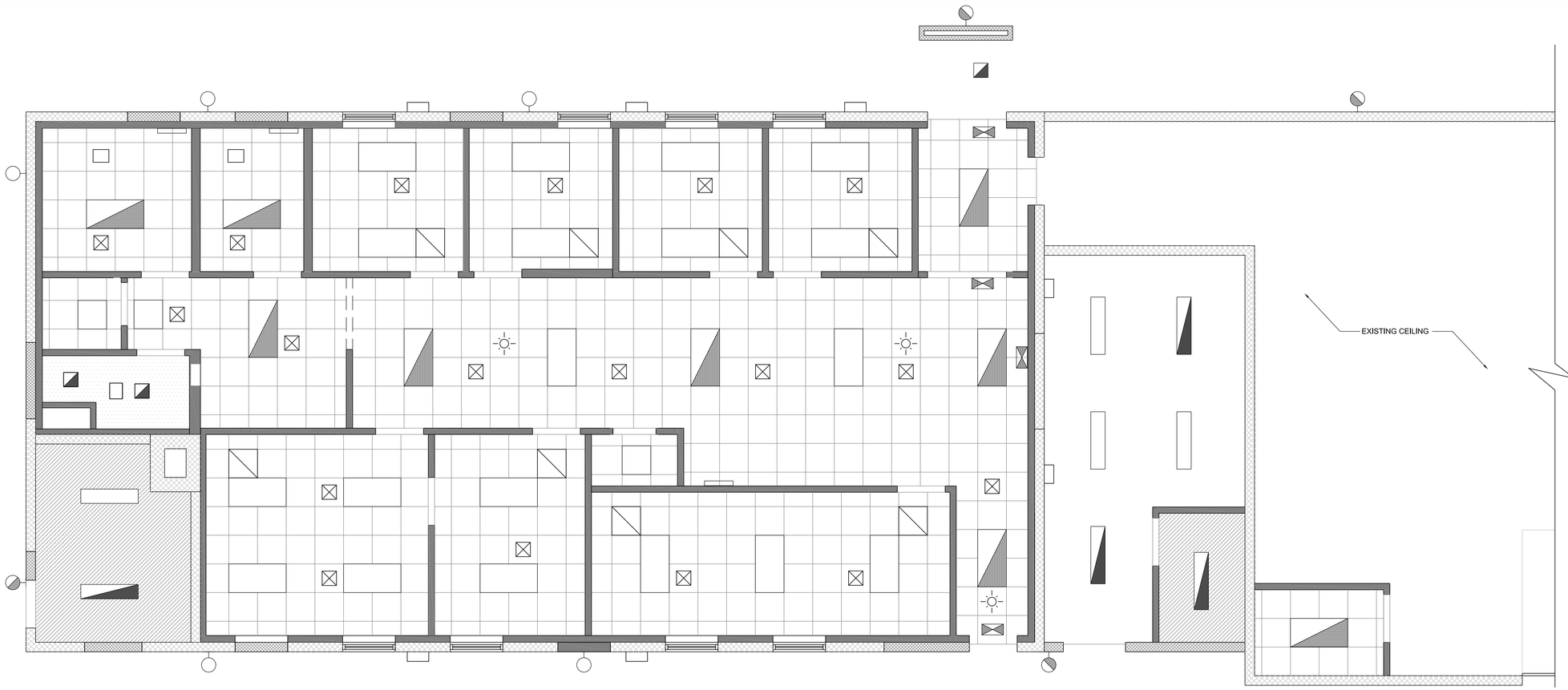
PROJECT NO. 42230136

BLDG 16-153 RENOVATION

FISHER AVE.
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

DIMENSIONED FLOOR PLAN

DRAWN BY	DATE	DRAWING NO.
M.MORRIS	15 MAR 2024	A.1.2
CHECKED BY	SCALE	
J.NYE	AS NOTED	



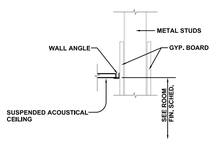
REFLECTED CEILING PLAN
SCALE: ¼" = 1'-0"

CEILING NOTES

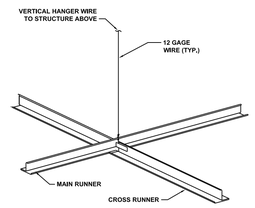
1. ACOUSTIC CEILING SYSTEM - 24"x24" GRID WITH 24"x24" LAY-IN, LIGHT TEXTURED ACOUSTIC TILES.
2. ⅝" GYPSUM BOARD, FINISHED, PRIMED AND PAINTED.
3. PROVIDE 2x4 FRAMING MEMBERS (16" o.c.), ALL SUPPORT BRACKETS AND FASTENERS FOR GYPSUM BOARD CEILING.
4. ALL CEILING HEIGHTS SHALL BE AT 9'-0" A.F.F. UNLESS SPECIFIED OTHERWISE.
5. ½" F.R. PLYWOOD, PRIMED AND PAINTED, PLYWOOD CEILING TO BE ATTACHED DIRECTLY TO BOTTOM CHORD OF TRUSS (10'-2"+/-)
6. ALL BULKHEADS SHALL BE PAINTED.
7. REFER TO ROOM FINISH & PAINT SCHEDULES, DWG. A.5.1.
8. THE GENERAL (.1) CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL (.2) AND ELECTRICAL (.4) CONTRACTORS FOR FIXTURE LOCATIONS.

CEILING LEGEND

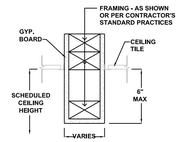
- GYPSUM BOARD CEILING
- PLYWOOD
- CEILING GRID/TILE
- BULKHEAD OR HEADER
- LIGHT FIXTURES
- OCCUPANCY SENSOR
- CEILING SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- EXIST SIGNS AND/OR EMERG. LIGHT FIXTURES



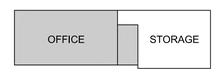
LAY-IN CEILING DETAIL 1 / A.1.3
N.T.S.



SUSP. CEILING SUPPORT 2 / A.1.3
N.T.S.



BULKHEAD DETAIL 3 / A.1.3
N.T.S.



KEY PLAN
NOT TO SCALE

NORTH

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:

0 — 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

NO.	DESCRIPTION	DATE

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BLDG 16-153 RENOVATION
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REFLECTED CEILING PLAN

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CHECKED BY	SCALE	
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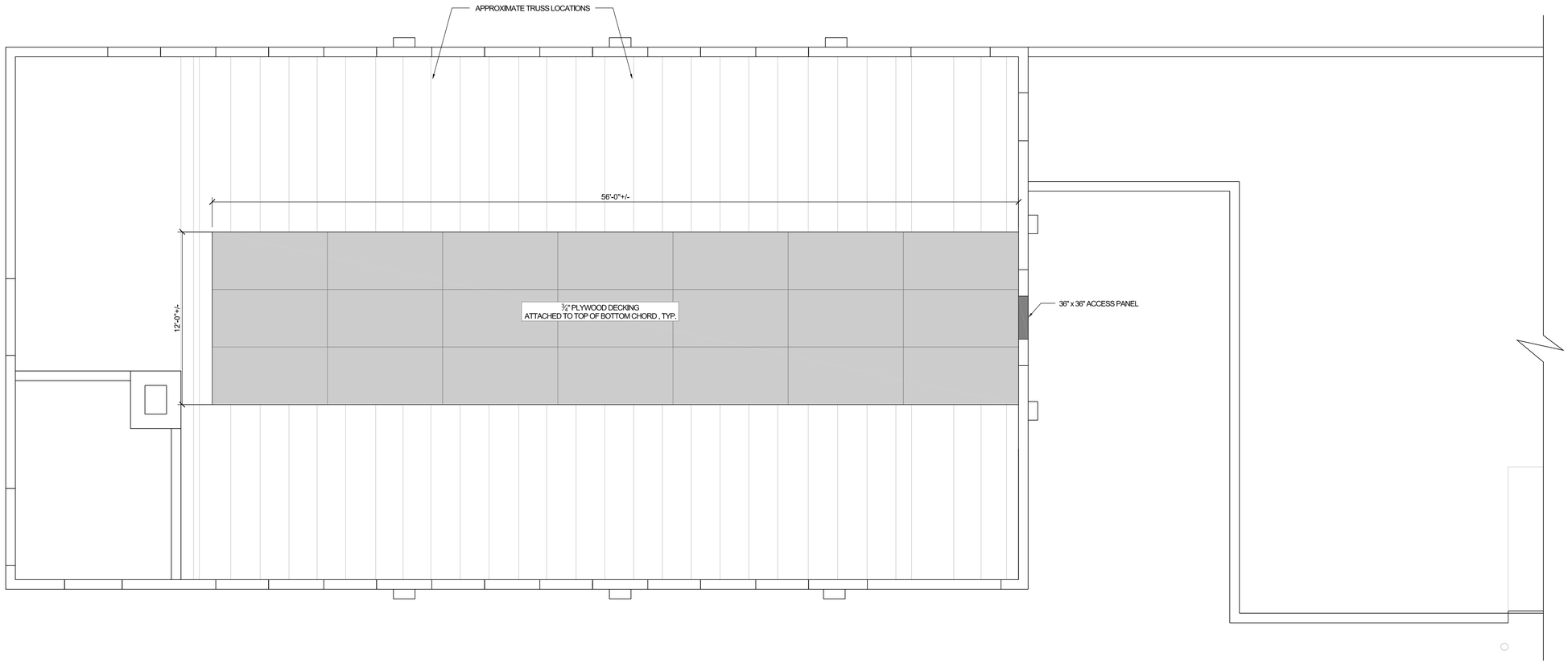

ATTIC DECKING PLAN

SCALE: ¼" = 1'-0"

KEY PLAN
NOT TO SCALE

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ATTIC DECKING PLAN

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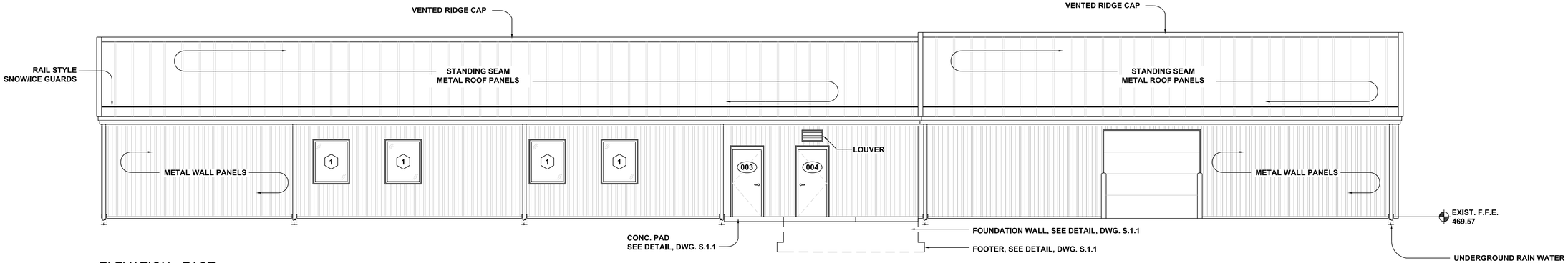
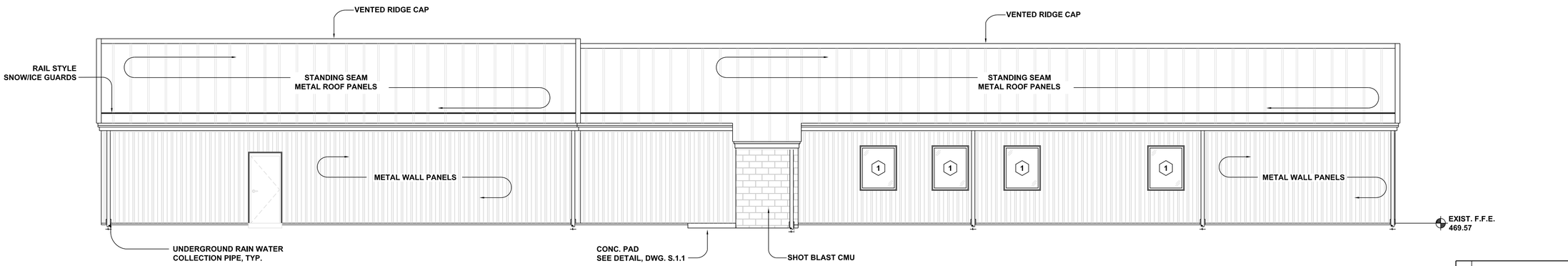
M.MORRIS	15 MAR 2024	A.1.4
CHECKED BY	SCALE	
J.NYE	AS NOTED	



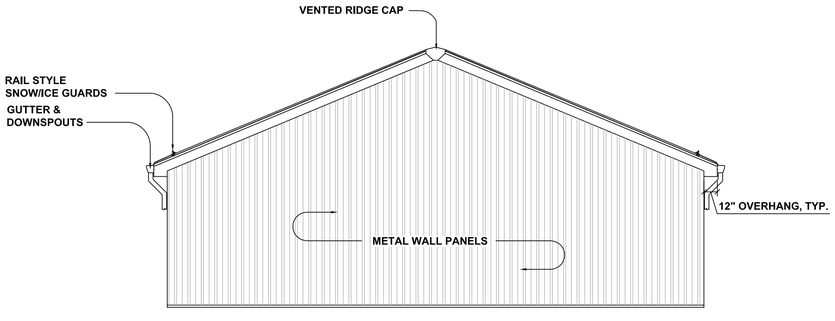
ELEVATION - EAST

SCALE: 3/16" = 1'-0"



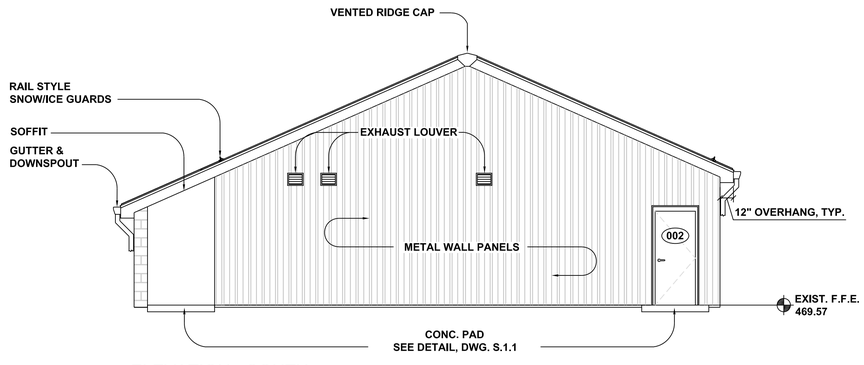
ELEVATION - WEST

SCALE: 3/16" = 1'-0"



ELEVATION - NORTH

SCALE: 3/16" = 1'-0"



ELEVATION - SOUTH

SCALE: 3/16" = 1'-0"

NO.	DESCRIPTION	DATE

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BLDG 16-153 RENOVATION

STREET ADDRESS
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

EXTERIOR ELEVATIONS

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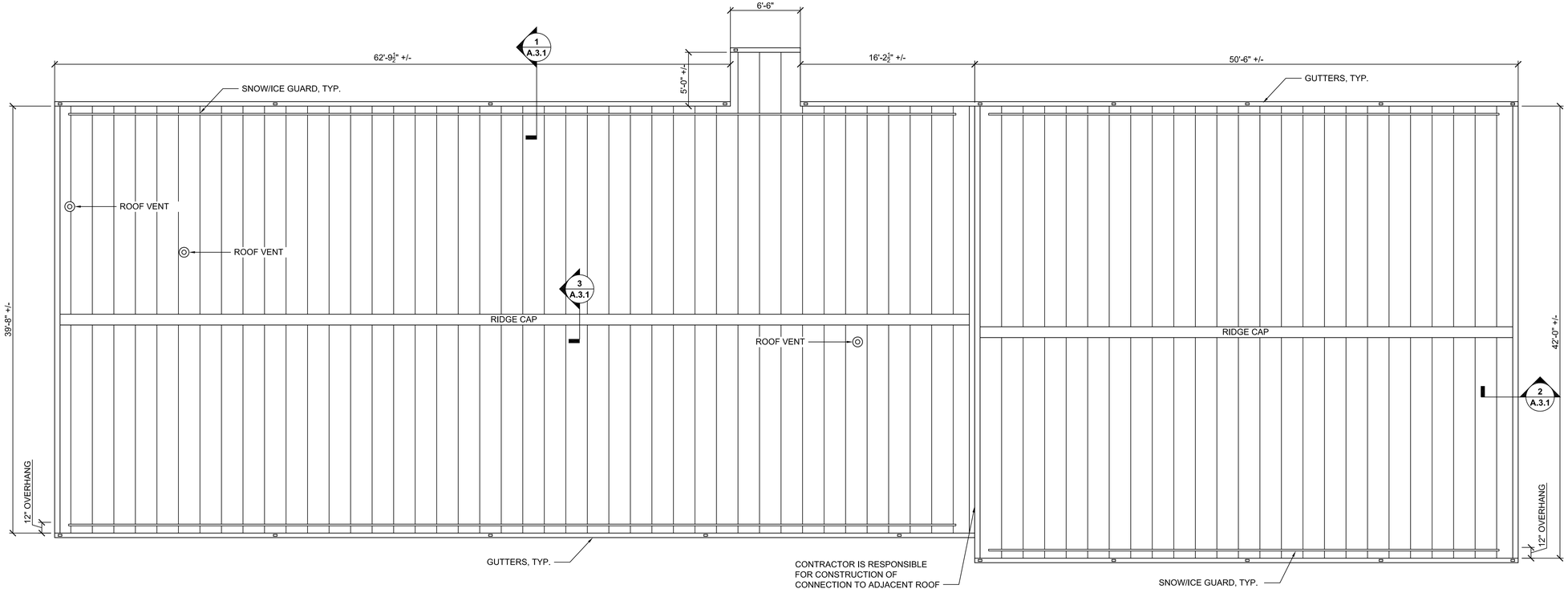
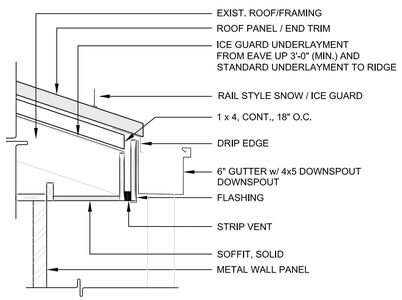
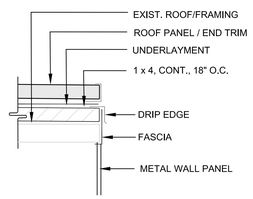
CHECKED BY	SCALE	
J.NYE	AS NOTED	



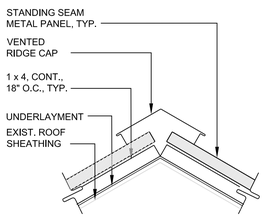
ROOF PLAN
SCALE: 3/16" = 1'-0"



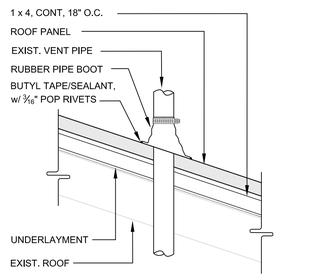
SECTION — 1 A.3.1
SCALE: 1 ½" = 1'-0"



SECTION — 2 A.3.1
SCALE: 1 ½" = 1'-0"

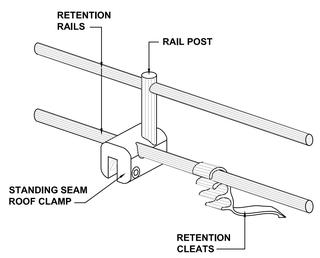


RIDGE DETAIL — 3 A.3.1
SCALE: 1 ½" = 1'-0"

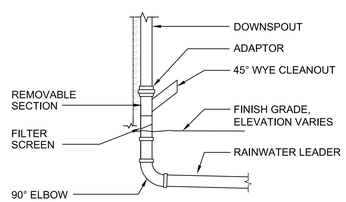


NOTE:
POP RIVETS SHALL BE STAINLESS STEEL, NO MORE THAN 6" o.c.

V.T.R. DETAIL — 4 A.3.1
SCALE: 1 ½" = 1'-0"



SNOW/ICE RAIL DETAIL — 5 A.3.1
NOT TO SCALE



DOWNSPOUT LEADER DETAIL — 6 A.3.1
SCALE: ½" - 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, DIMENSIONS AND ROOF PENETRATION LOCATIONS PRIOR TO BEGINNING WORK. REPORT ANY DISCREPANCIES TO THE DEPARTMENT.
2. CONTRACTOR SHALL REPORT ANY CONCERNS FOUND DURING DEMOLITION OPERATIONS PRIOR TO CONTINUING WORK IN THAT AREA.
3. CONTRACTOR IS RESPONSIBLE TO PROPERLY PATCH ANY HOLES REMAINING FROM ITEMS REMOVED.
4. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ADJACENT EXTERIOR/INTERIOR AREA AND COMPLETED ROOF AREAS FROM WORK OPERATIONS, UNTIL FINAL ACCEPTANCE BY THE GOVERNMENT.

DEMOLITION NOTES

1. REMOVE EXISTING SHINGLES, UNDERLAYMENT MATERIAL AND ASSOCIATED ITEMS TO EXPOSE EXISTING ROOF SHEATHING.
   1.1. REPORT ANY SUBSTRATE DETERIORATION TO THE DEPARTMENT.
2. REMOVE EXISTING EAVE AND GABLE END FASCIA BOARDS, FLASHING, DRIP EDGE AND CHIMNEY FLASHING.
3. REMOVE EXISTING GUTTERS, DOWNSPOUTS AND ASSOCIATED ITEMS.

CONSTRUCTION NOTES

1. INSTALL ICE GUARD UNDERLAYMENT FROM EAVES UP 3'-0" (MIN.) AND STANDARD UNDERLAYMENT TO RIDGE.
   1.1. MECHANICALLY FASTENED STANDARD UNDERLAYMENT OVER SHEATHING. OVERLAPS SHALL BE A MINIMUM OF 6", VERTICALLY AND HORIZONTALLY.
2. INSTALL 1x4 FURRING STRIPS DIAGONALLY @ 18" o.c. OVER ROOF SHEATHING, FOR VENTILATION.
3. INSTALL STANDING SEAM METAL ROOF PANELS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. INSTALL VENTED RIDGE CAP. SEE 'RIDGE DETAIL,' THIS DWG.
5. INSTALL FASCIA/FLASHING/DRIP EDGE AS SHOWN ON SECTIONS AND DETAILS, THIS DWG.
6. INSTALL GUTTERS AND DOWNSPOUTS. DOWNSPOUTS SHALL BE PLACED EVERY 20'-0" (MAX.)
7. DOWNSPOUTS TO TIE INTO UNDERGROUND RAINWATER COLLECTION PIPE. SEE 'DOWNSPOUT LEADER DETAIL,' THIS DWG. AND C.1.0 SITE PLAN FOR FURTHER DETAILS.
8. INSTALL RAIL STYLE SNOW/ICE GUARD. SEE DETAIL, THIS DWG.
9. INSTALL ROOF VENT BOOT TO PROVIDE A WEATHERTIGHT SEAL. SEE 'V.T.R. DETAIL,' THIS DWG.
10. REPAIR/REPLACE ROOF FRAMING AND SHEATHING IN AREA OF CHIMNEY REMOVAL.
11. INSTALL OTHER ITEMS AS PER SPECIFICATIONS AND AS NECESSARY TO PROVIDE A COMPLETE WATERTIGHT ROOF SYSTEM.

NO.	DESCRIPTION	DATE

REVISIONS

Professional's Signature Date

OFFICE | STORAGE

KEY PLAN
NOT TO SCALE

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NORTH

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ROOF PLAN

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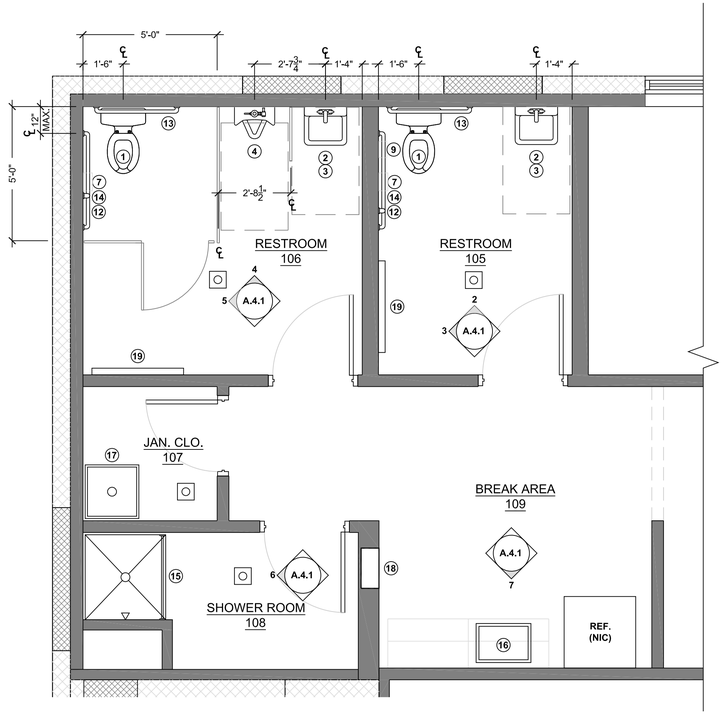
CHECKED BY	SCALE	
J.NYE	AS NOTED	



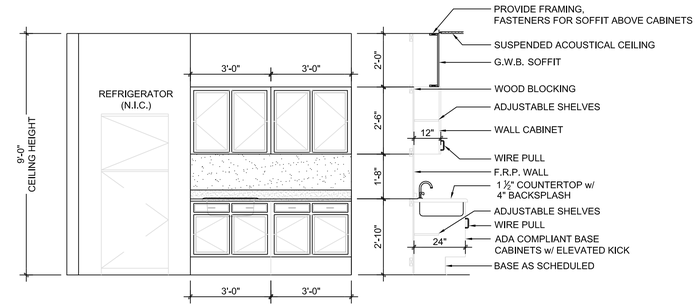
ENLARGED PLAN

SCALE: ⅜" = 1'-0"

1 A.4.1

FIXTURES AND ACCESSORIES				
NO.	DESCRIPTION	MOUNTING HEIGHT (AFF)	REMARKS	NO.
1	TOILET	-	FLOOR MOUNTED	PROVIDED AND INSTALLED BY P.C.	1
2	SINK	36"	TOP OF BOWL RIM	PROVIDED AND INSTALLED BY P.C.	2
3	PIPING PROTECTION	-	COVER SUPPLIES & DRAIN	PROVIDED AND INSTALLED BY P.C.	3
4	URINAL	24"	TOP OF SPUD	PROVIDED AND INSTALLED BY P.C.	4
5	MIRROR	40"	BOTTOM OF FRAME	CENTER MIRROR OVER SINK	5
6	PAPER TOWEL DISPENSER	48" MAX.	OPERABLE PART		6
7	TOILET PAPER DISPENSER	24"	BOTTOM OF DISPENSER		7
8	SOAP DISPENSER	44" MAX.	BOTTOM OF DISPENSER		8
9	SANITARY WASTE RECEPTACLE	28-40"	TOP OF DISPENSER		9
10	TOILET PARTITION	-	FLOOR MOUNTED W/ OH RAILS		10
11	URINAL SCREEN	12"	BOTTOM OF SCREEN		11
12	42" GRAB BAR	34"	CENTER OF BAR	INSTALL 12" FROM FIXTURE WALL	12
13	36" GRAB BAR	34"	CENTER OF BAR	INSTALL 39" FROM FIXTURE WALL	13
14	18" VERTICAL GRAB BAR	39"	CENTER OF BOTTOM BRACKET		14
15	38-1/2" x 36-1/4" x 79" SHOWER	-		PROVIDED AND INSTALLED BY P.C.	15
16	KITCHEN SINK	-		PROVIDED AND INSTALLED BY P.C.	16
17	MOP SINK	-		PROVIDED AND INSTALLED BY P.C.	17
18	BOTTLE FILLING STATION	-		PROVIDED AND INSTALLED BY P.C.	18
19	BABY CHANGING STATION	28-34"	WORK SURFACE		19

NOTES:
1. REFER TO 'ELEVATIONS' AND 'ENLARGED PLAN,' THIS DWG. FOR LOCATIONS OF ACCESSORIES.
2. CONTRACTOR SHALL INSTALL BLOCKING FOR ALL ACCESSORIES.
3. ALL ITEMS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR (.1) UNLESS NOTED OTHERWISE.

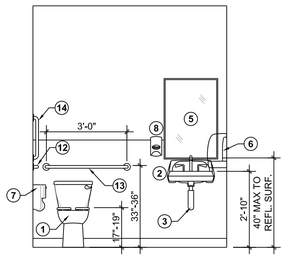


NOTES:
1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING CABINETRY, DIMENSIONS TO BE ADJUSTED AS NEEDED TO ACCOMMODATE FIELD CONDITIONS.
2. CONTRACTOR TO PROVIDE WOOD BLOCKING, AS REQUIRED, FOR ATTACHMENT OF CABINETS TO WALL.

CASEWORK ELEVATION & DETAIL

SCALE: ⅜" = 1'-0"

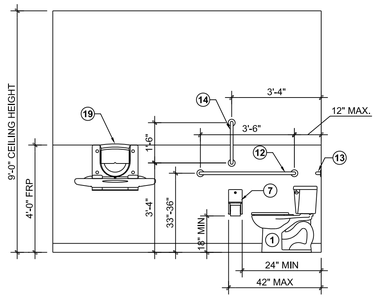
7 A.4.1



RESTROOM ELEVATION

SCALE: ⅜" = 1'-0"

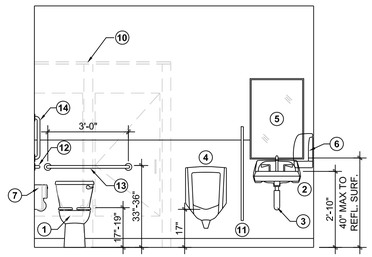
2 A.4.1



RESTROOM ELEVATION

SCALE: ⅜" = 1'-0"

3 A.4.1



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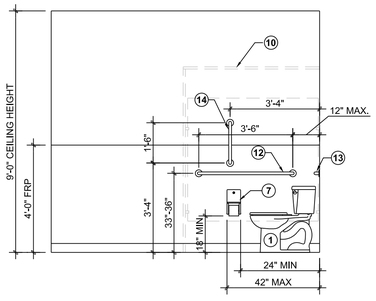
SCALE: ⅜" = 1'-0"

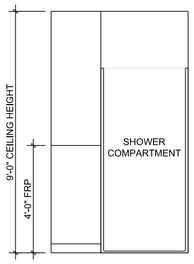
4 A.4.1



RESTROOM ELEVATION

SCALE: ⅜" = 1'-0"

5 A.4.1



SHOWER ROOM ELEVATION

SCALE: ⅜" = 1'-0"

6 A.4.1

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FISHER AVE.
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ENLARGED PLAN & ELEVS.

VERIFY SCALE

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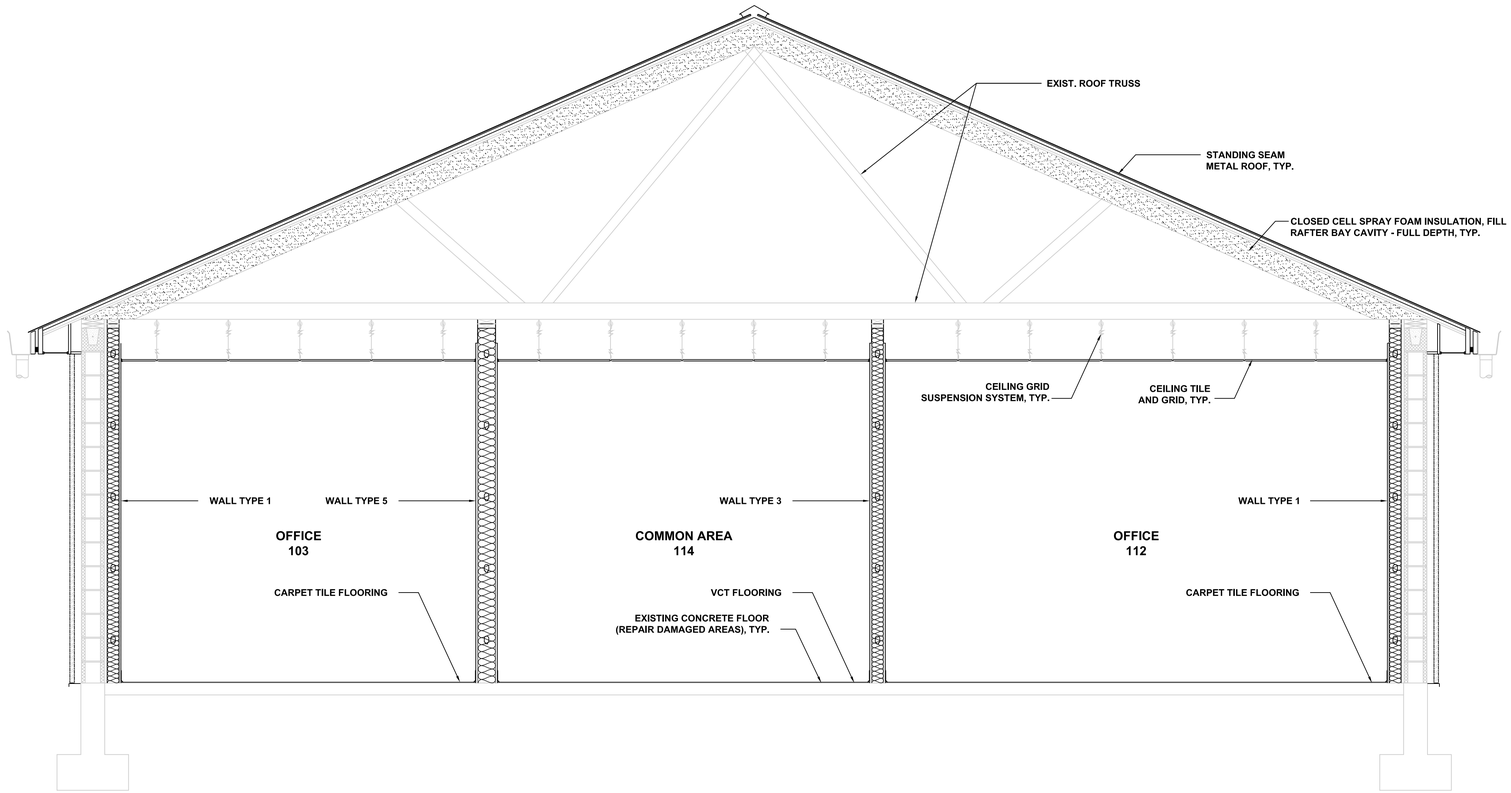
J.NYE	AS NOTED	



BUILDING SECTION
SCALE: ½" = 1'-0"

1
A.4.2

NO.	DESCRIPTION	DATE

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BLDG 16-153
RENOVATION

FISHER AVE.
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

BUILDING SECTION

VERIFY SCALE

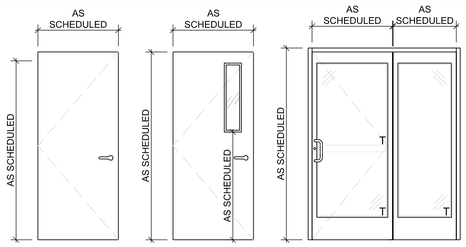
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:

0 1

IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

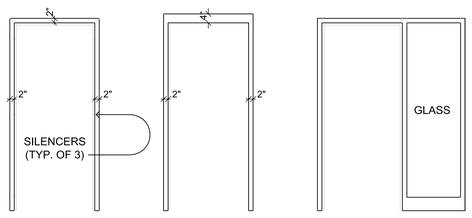
DRAWN BY	DATE	DRAWING NO.
M.MORRIS	15 MAR 2024	A.4.2
CHECKED BY	SCALE	
J.NYE	AS NOTED	



T= TEMPERED GLAZING

DOOR TYPES

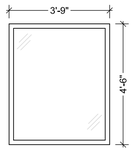
SCALE: ⅜" = 1'-0"



MANUFACTURER'S STANDARD

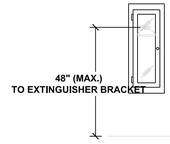
DOOR FRAME TYPES

SCALE: ⅜" = 1'-0"



WINDOW TYPE '1'

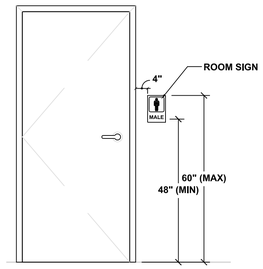
SCALE: ⅜" = 1'-0"



EXTINGUISHER CABINET

NOT TO SCALE

1 A.5.1



DOOR SIGNAGE

SCALE: ½" = 1'-0"

2 A.5.1

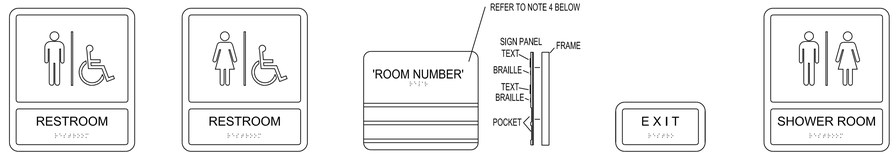
D O O R A N D F R A M E S C H E D U L E

DOOR NO.	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR MAT'L	DOOR TYPE	GLASS SIZE	GLASS DoD TYPE	FRAME MAT'L	FRAME TYPE	JAMB DET.	HEAD DET.	HARDWARE SET NO.	KEY SIDE	CLOSER SIDE	LINTEL	SIGN TYPE	REMARKS	DOOR NO.
001	3'-0"	7'-0"	1-3/4"	ALUM.	3	FULL	B	ALUM.	C	2	2		EXTERIOR	RM 100	L1	C	DOOR AND SIDELITE STOREFRONT STYLE ENTRANCE	001
002	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	B	-	-	2	EXTERIOR	RM 110	L1		PROVIDE KICKPLATE	002
003	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	B	2	2	1	EXTERIOR	RM 116	L1	C	PROVIDE KICKPLATE	003
004	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	B	3	3		EXTERIOR	RM 117	L1		PROVIDE KICKPLATE	004
005	EXIST.												RM 100	RM 100			PROVIDE HARDWARE AND PAINT	005
100	3'-0"	7'-0"	1-3/4"	ALUM.	3	FULL	B	ALUM.	C	1	1		RM 100	RM 100		C	DOOR AND SIDELITE STOREFRONT STYLE ENTRANCE	100
101	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	4	RM 114	RM 100		B		101
102	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 114			B		102
103	2'-8"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 114			B		103
104	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 114			B		104
105	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 109			A		105
106	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 109			A		106
107	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 109					107
108	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 109			D		108
109	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 114			B		109
110	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 114					110
111	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 114			B		111
112	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 114					112
113	3'-0"	7'-0"	1-3/4"	H.M.	2	6x30		STEEL	A	1	1	3	RM 114			B		113
114	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 117					114
115	3'-0"	7'-0"	1-3/4"	H.M.	1			STEEL	A	1	1	3	RM 120					115

L I N T E L S C H E D U L E

MARK	SIZE	M.O.	DETAIL	REMARKS
L1	(2) 4" x 8" PRECAST CONCRETE EA. w/ (1)#4 T&B	6'-4" MAX.		8" CMU WALLS

NOTES:
1. PROVIDE MINIMUM 8" BEARING ON MASONRY EACH END OF LINTELS.
2. PROVIDE (2) #5 @ LINTEL BRG. FOR JAMB REINFORCEMENT, TYP.



SIGNAGE NOTES:

1. REFER TO DOOR AND FRAME SCHEDULE FOR SIGNAGE TYPE LOCATIONS.
2. SIGNAGE SHALL BE ADA COMPLIANT AND MOUNTED SUCH THAT TACTILE CHARACTERS SHALL BE 48 INCHES MINIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
3. SIGNAGE SHALL BE MOUNTED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE THERE IS INADEQUATE WALL SPACE FOR SIGN, MOUNT SIGN ON NEAREST ADJACENT WALL.
4. PROVIDE TACTILE SIGNS FOR ALL EGRESS EXITS.
5. ROOM SIGNAGE: USE ROOM NUMBERS AS INDICATED ON DWG. A.1.1.

SIGNAGE TYPES

NOT TO SCALE

3 A.5.1

PAINT SCHEDULE

METAL DOORS/FRAMES:
1 COAT METAL PRIMER
1 INTERMEDIATE COAT, SEMI-GLOSS (TO MATCH TOP COAT COLOR)
1 TOPCOAT, SEMI-GLOSS

GYPSUM BOARD/EXPOSED WOOD:
1 COAT PRIMER
1 INTERMEDIATE COAT, EGGSHELL (TO MATCH TOP COAT COLOR)
1 TOPCOAT, EGGSHELL

NOTES:

1. APPLY EXTERIOR GRADE PAINT FOR ALL EXTERIOR MATERIALS, AND APPLY INTERIOR GRADE PAINT FOR ALL INTERIOR AREAS.
2. APPLY AN ADDITIONAL TOPCOAT, IF REQUIRED TO PROVIDE A UNIFORM FINISH AT NO ADDITIONAL COST.

W I N D O W S C H E D U L E

TYPE	SIZE W	SIZE H	QTY.	FRAME MATERIAL	SECURITY GLAZING	DoD ATFP TYPE	ADDITIONAL ITEMS	REMARKS
1	3'-9"	4'-6"	8	ALUM	YES	B	REFLECTIVE GLAZING	REFER TO SPECS. FOR FURTHER INFORMATION

** DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE **

I N T E R I O R F I N I S H S C H E D U L E

	DESIGNATION	MANUFACTURER	DESCRIPTION	COLOR	REMARKS
FLOORS	F-1	SEE SPECIFICATIONS	VINYL COMPOSITE TILE (VCT)	TBD	
	F-2		CARPET TILE FLOORING (CPT)	TBD	
	F-3		RESINOUS BUILT-UP FLOOR COATING	TBD	
	F-4		CARPET - WALK OFF MAT (WOM)	TBD	
	F-5		CONCRETE - SEALED		
WALL BASE	B-1		VINYL COVE BASE (VCB)	TBD	TYPICAL, UNLESS NOTED OTHERWISE
	B-2		RESINOUS BASE - 4" HIGH; COVE	TBD	INSTALL IN RESINOUS FLOOR LOCATIONS
WALLS	W-1		GYPSUM BOARD - PRIME AND PAINT	TBD	
	W-2		GYPSUM BOARD (MOISTURE RESISTANT) - PRIME AND PAINT	TBD	
	W-3		FRP	TBD	INSTALL TO A HEIGHT OF 48" A.F.F.
	W-4		EXISTING STANDARD CMU - CLEAN, PRIME AND PAINT	TBD	
	W-5		NEW STANDARD CMU - PRIME AND PAINT	TBD	
	W-6		PLYWOOD - PRIME AND PAINT	TBD	
CEILINGS			SEE REFLECTED CEILING PLAN, DWG. A.1.3	TBD	

NOTES:

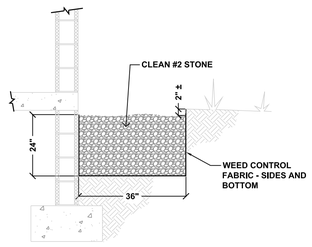
1. FINISH COLORS AND TEXTURES SHALL BE SELECTED BY THE GOVERNMENT DESIGN PROFESSIONAL.
2. AT LOCATIONS WHERE DIFFERENT MATERIAL THICKNESS EXIST, FLOOR SHALL BE FLASHED TO ALLOW FOR SMOOTH TRANSITION.
3. ALL TRANSITIONS AT DOORS SHALL BE CENTERED BENEATH THE DOOR.

HARDWARE SET #1
HINGES: PER MANUFACTURER'S STANDARD
OPENING DEVICE: PULL HANDLES
LOCKING DEVICE: MORTISE LOCK, DEAD BOLT w/ INTERIOR/EXTERIOR KEYING
EXITING DEVICE: TOUCH BAR w/ CONCEALED VERTICAL ROD
CLOSER: TOP SURFACE MOUNT ON DOOR w/ 120° PARALLEL ARM

HARDWARE SET #2
HINGES: 5 KNUCKLE, FULL MORTISE
OPENING DEVICE: LEVER HANDLE w/ EXTERIOR KEYING
LOCKING DEVICE: CYLINDRICAL LOCK
EXITING DEVICE: TOUCH BAR
CLOSER: TOP SURFACE MOUNT ON DOOR w/ 120° PARALLEL ARM

HARDWARE SET #3
HINGES: 5 KNUCKLE, FULL MORTISE
OPENING DEVICE: LEVER HANDLE w/ EXTERIOR KEYING
LOCKING DEVICE: CYLINDRICAL LOCK
EXITING DEVICE: LEVER HANDLE

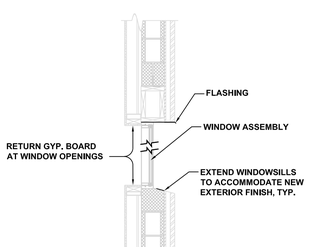
HARDWARE SET #4
HINGES: 5 KNUCKLE, FULL MORTISE
OPENING DEVICE: PUSH PLATE
LOCKING DEVICE: NONE
EXITING DEVICE: PULL HANDLE
CLOSER: TOP SURFACE MOUNT ON DOOR w/ 120° PARALLEL ARM



LANDSCAPING DETAIL

NOT TO SCALE

4 A.5.1



WINDOW INSTALL - TYP.

NOT TO SCALE

5 A.5.1

SPECIAL NOTE:
ALL EXTERIOR DOOR AND WINDOW FRAMING, GLAZING AND INSTALLATION METHODS MUST MEET AND/OR EXCEED ALL REQUIREMENTS AS OUTLINED WITHIN THE DEPARTMENT OF DEFENSE: UNIFIED FACILITIES CODE, UFC-04-010 AND UFC-04-020-01. CONTRACTOR ALONG WITH THE DOOR/WINDOW MANUFACTURER SHALL BE RESPONSIBLE FOR ENSURING THAT ALL INSTALLED DOORS AND WINDOWS COMPLY WITH THE REFERENCED STANDARD TO THE FULLEST EXTENT.

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NO.	DESCRIPTION	DATE

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DEPT. OF MILITARY & VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

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BUILDING 0-10, CHAPEL ROAD FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO. 42230136

BLDG 16-153 RENOVATION

FISHER AVE.
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

SCHEDULES & DETAILS

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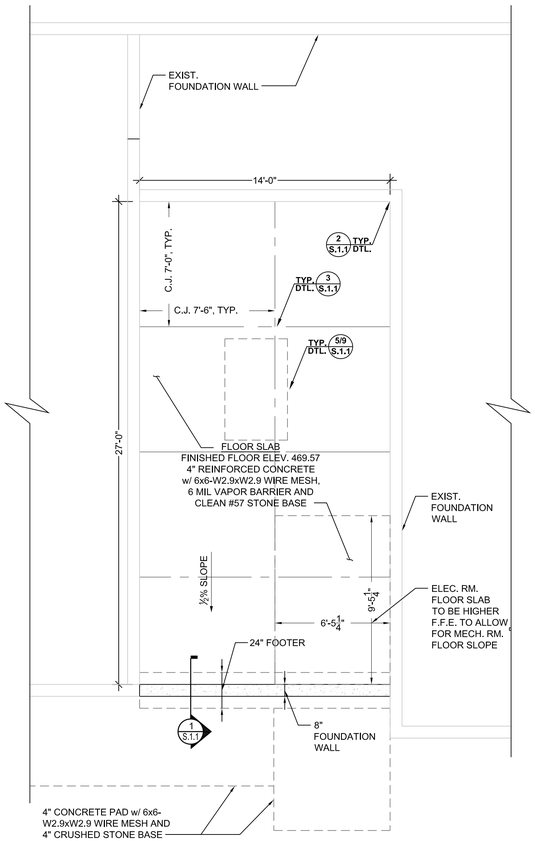
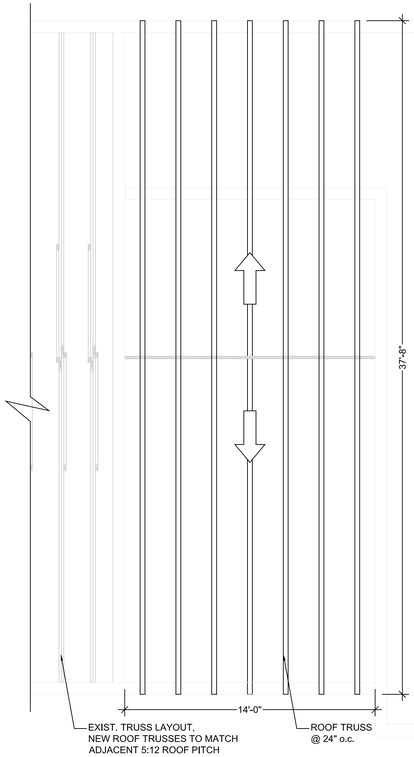
CHECKED BY	SCALE	
J.NYE	AS NOTED	



FOUNDATION PLAN - ADDITION

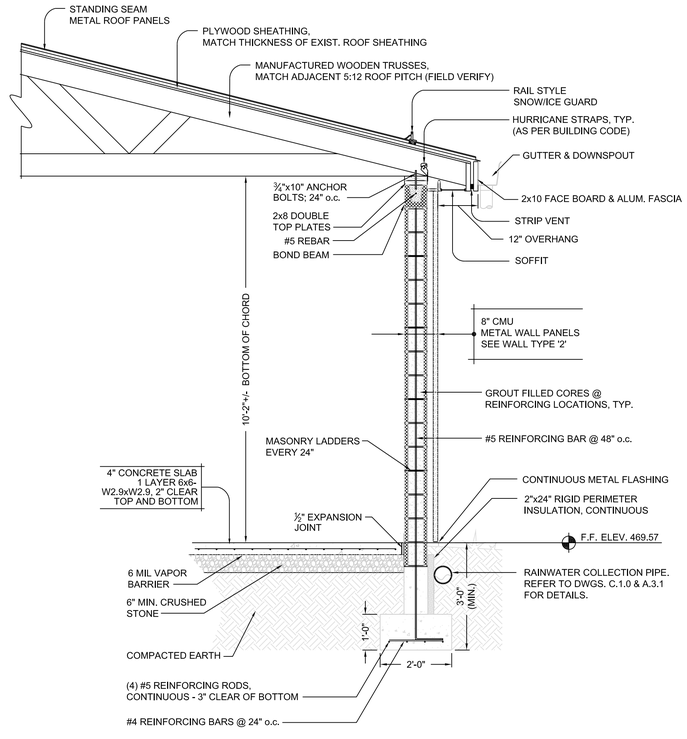
SCALE: ¼" = 1'-0"



ROOF FRAMING - ADDITION

SCALE: ¼" = 1'-0"

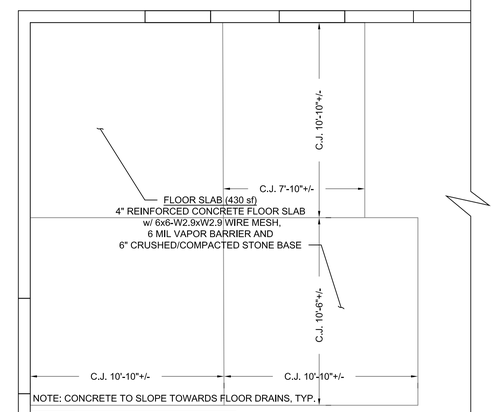
ROOF FRAMING NOTE:
THE ROOF FRAMING LAYOUT DEPICTS COMMON CONSTRUCTION PRACTICE AND IS SHOWN TO OUTLINE DESIGN INTENT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO TRUSS FABRICATION. TRUSS MANUFACTURER SHALL BE RESPONSIBLE TO PERFORM ALL NECESSARY DESIGN CALCULATIONS AND TO SIZE TRUSSES AS NECESSARY. CONTRACTOR SHALL PLACE AND ANCHOR ALL TRUSSES PER THE MANUFACTURER'S ENGINEERED PLANS, WRITTEN RECOMMENDATIONS AND IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AND STATE BUILDING CODES.



ADDITION - SECTION

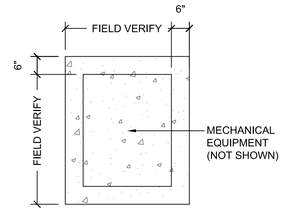
SCALE: ½" = 1'-0"

1 S.1.1



NEW CONCRETE PLAN - RESTROOM AREA

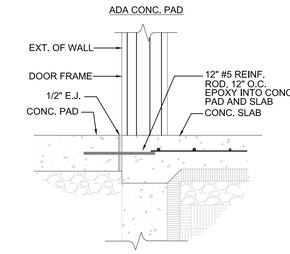
SCALE: ¼" = 1'-0"



EQUIPMENT PAD DETAIL

SCALE: ½" = 1'-0"

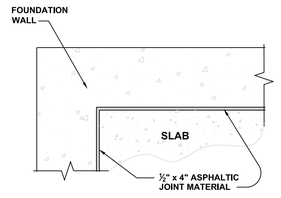
9 S.1.1



ADA CONCRETE PAD DETAIL

SCALE: 1" = 1'-0"

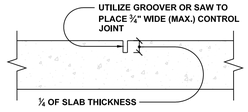
10 S.1.1



INT. EXPANSION JOINT

SCALE: 1" = 1'-0"

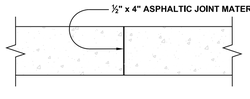
2 S.1.1



CONTROL JOINT

SCALE: 1" = 1'-0"

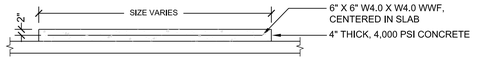
3 S.1.1



EXT. EXPANSION JOINT

SCALE: 1" = 1'-0"

4 S.1.1

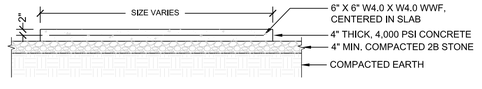


NOTE: COORDINATE FINAL EQUIPMENT PAD LOCATION & SIZE WITH .2 CONTRACTOR.

EQUIPMENT PAD SECTION (INTERIOR)

SCALE: ½" = 1'-0"

5 S.1.1

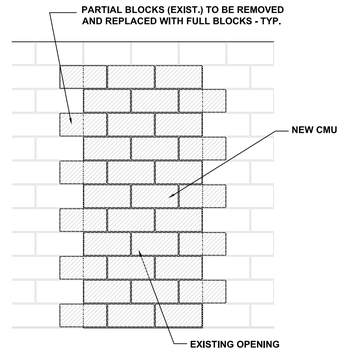


NOTE: COORDINATE FINAL EQUIPMENT PAD LOCATION & SIZE WITH .2 CONTRACTOR.

EQUIPMENT PAD SECTION (EXTERIOR)

SCALE: ½" = 1'-0"

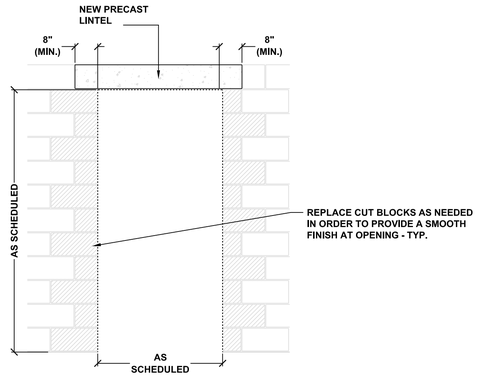
6 S.1.1



MASONRY OPENING INFILL DETAIL

SCALE: ½" = 1'-0"

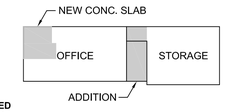
7 S.1.1



NEW MASONRY OPENING DETAIL

SCALE: ½" = 1'-0"

8 S.1.1



KEY PLAN

NOT TO SCALE

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BLDG 16-153 RENOVATION

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ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PLANS, SECTIONS & DETAILS

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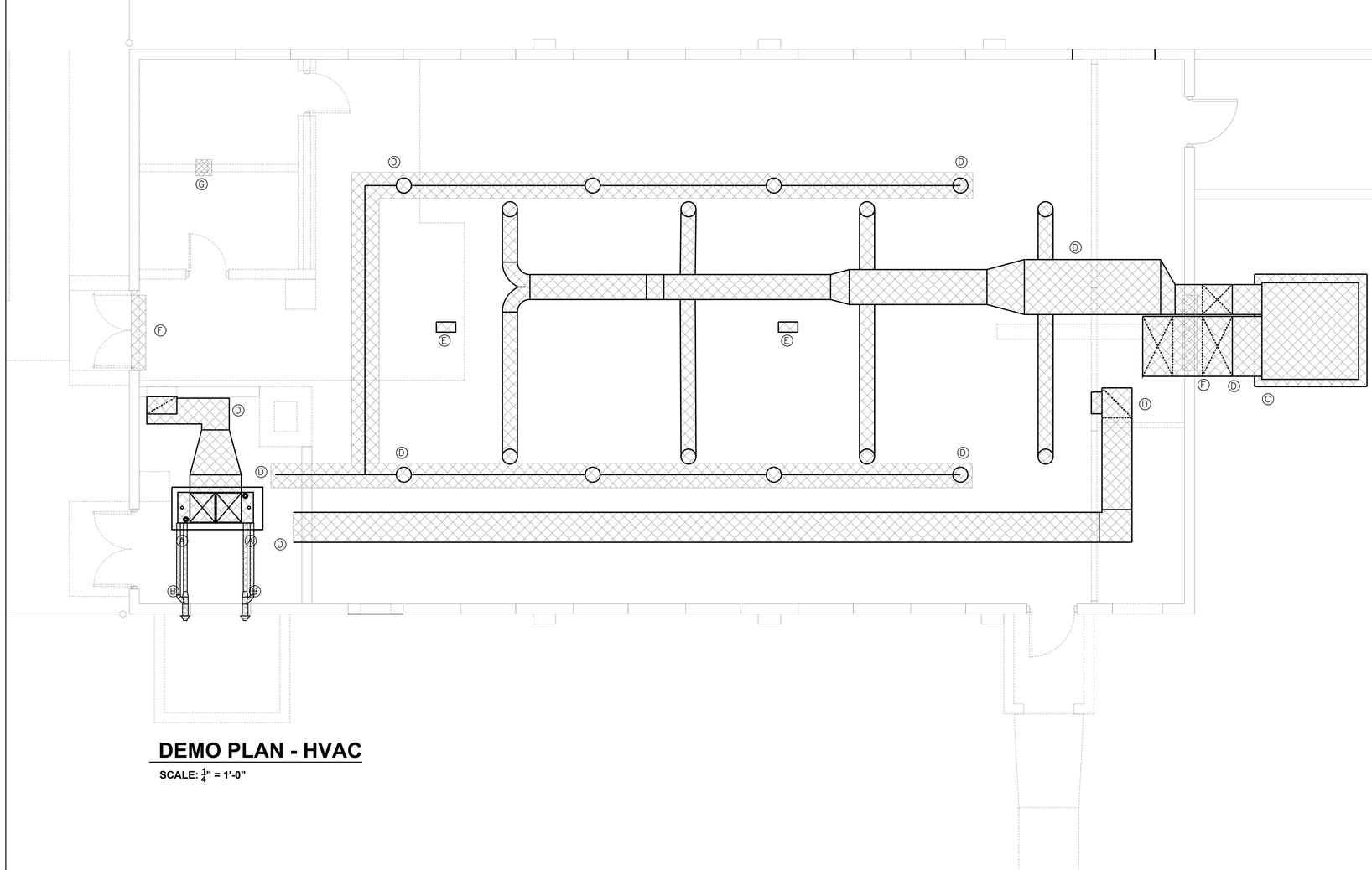
J.NYE	AS NOTED	



DEMO PLAN - HVAC

SCALE: $\frac{1}{4}$" = 1'-0"

HVAC DEMOLITION NOTES

(A) REMOVE AND RETAIN EXISTING AIR HANDLING UNIT. DELIVER TO DIVISION OF INSTALLATION MAINTENANCE (DIM). DO NOT REMOVE EXISTING HOUSE KEEPING PAD

(B) REMOVE AND DISCARD FLUE PIPING.

(C) REMOVE AND DISCARD EXISTING GROUND MOUNTED ROOF TOP UNIT.

(D) REMOVE AND DISCARD DUCTWORK, DIFFUSERS, HANGERS, AND ALL ASSOCIATED APPURTENANCES.

(E) REMOVE AND DISCARD CEILING MOUNTED RELIEF GRILLE.

(F) REMOVE GABLE-END ATTIC LOUVER.

(G) REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED DUCTWORK

NORTH

OFFICE | STORAGE

KEY PLAN
NOT TO SCALE

VERIFY SCALE

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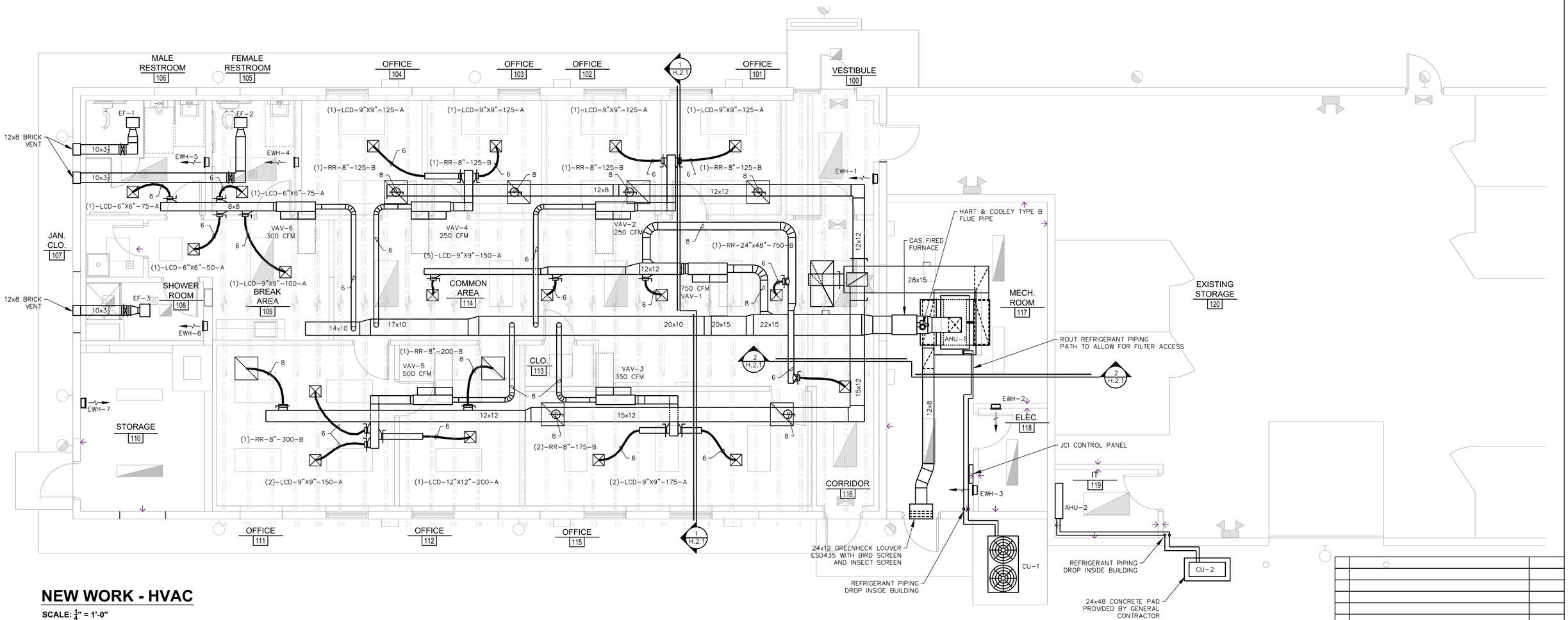
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

HVAC DEMOLITION PLAN

DRAWN BY: B. TOEVS	DATE: 15 MAR 2024	DRAWING NO.: H.1.0
CHECKED BY:	SCALE: AS NOTED	



NEW WORK - HVAC

SCALE: $\frac{1}{4}$" = 1'-0"

DIFFUSER KEY

QUANTITY – SYMBOL SEE LEGEND – NECK SIZE – CFM – TYPE

(2) – LCD – 12" DIA. – 50 – A

OR 12"x12"

LEGEND

SR = SUPPLY REGISTER

CD = CEILING DIFFUSER

RR = RETURN REGISTER

ER = EXHAUST REGISTER

LCD = LAY-IN CEILING DIFFUSER

LRR = LAY-IN RETURN REGISTER

DIFFUSERS AND REGISTERS TYPES

A = TUTTLE & BAILEY MODEL AGITAIR RC

B = TUTTLE & BAILEY MODEL CRE500 W/TUTLE & BAILEY MODEL A45 MOUNTING FRAME

C = TUTTLE & BAILEY MODEL T75D 1/2" SPACING

NORTH

OFFICE | STORAGE

KEY PLAN

NOT TO SCALE

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:

0 — 1

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CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

NO.	DESCRIPTION	DATE

REVISIONS

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO. 42230136

BLDG 16-153 RENOVATION

FISHER AVE.
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

HVAC FLOOR PLAN

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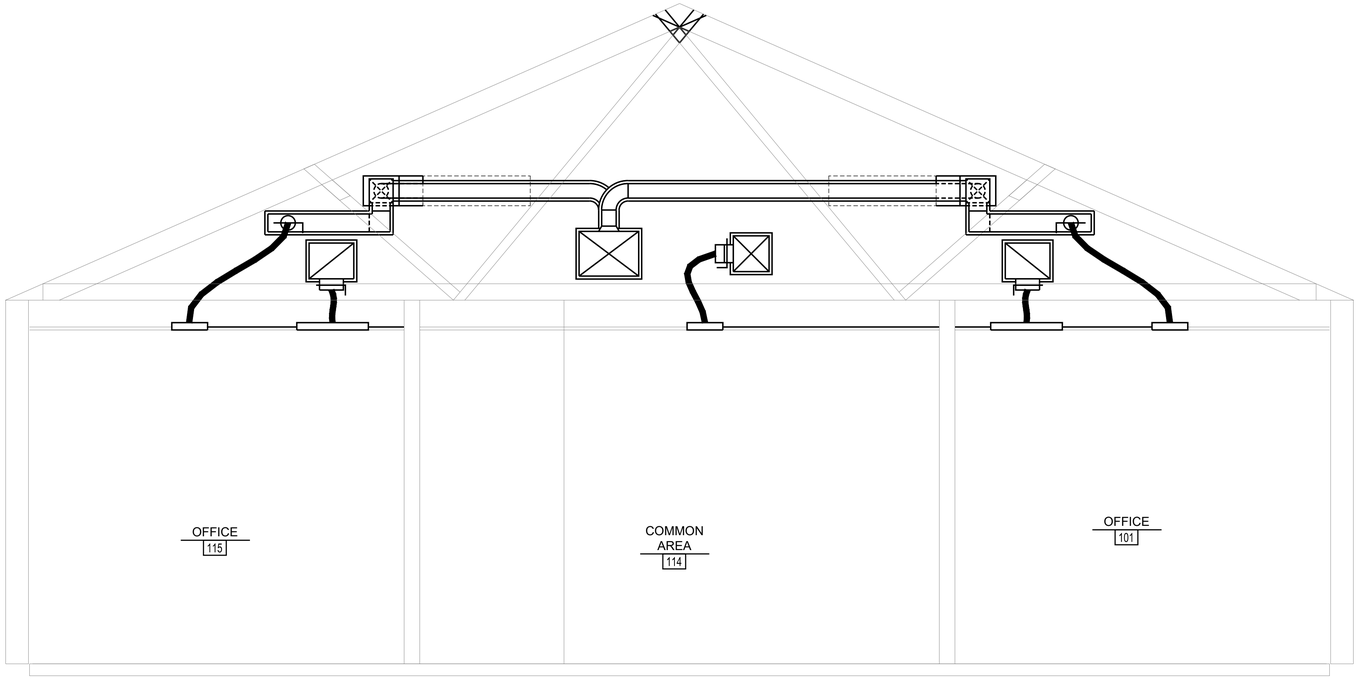
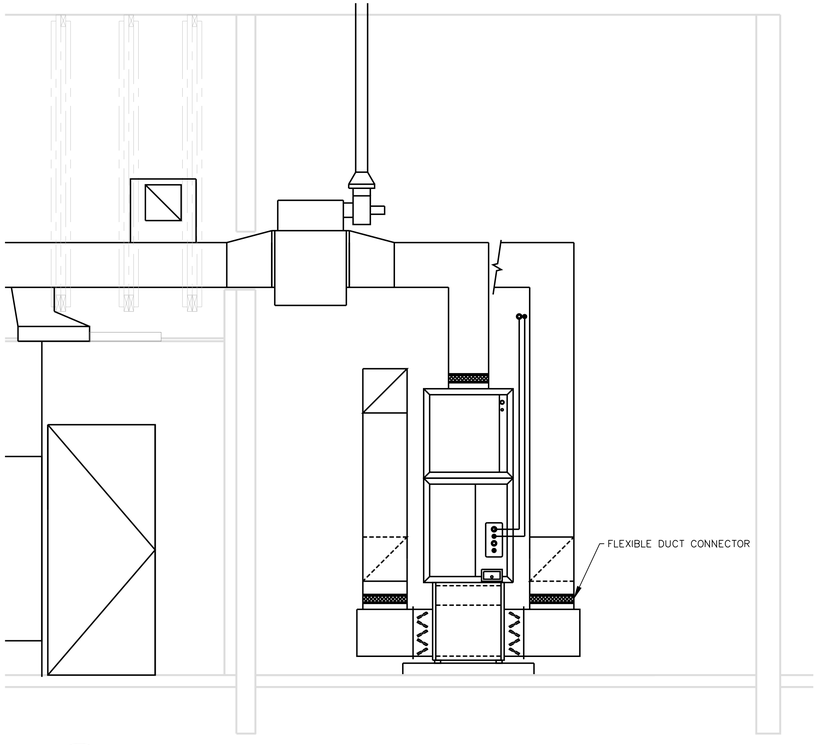


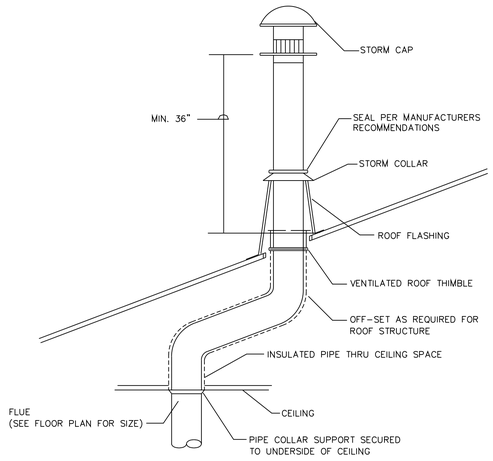
1 HVAC SECTION 1-1

SCALE: ½" = 1'-0"



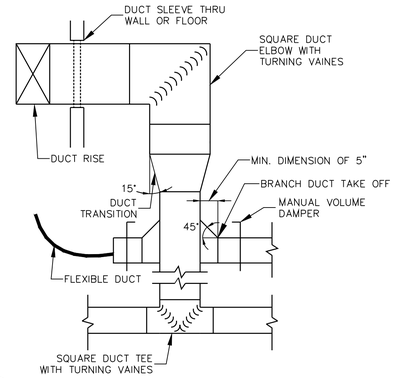
2 HVAC SECTION 2-2

SCALE: ½" = 1'-0"



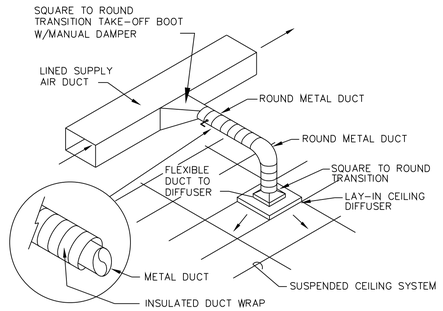
3 FLUE THRU ROOF DETAIL

NO SCALE



4 DUCT CONSTRUCTION DETAILS

NO SCALE



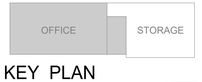
NOTE:
ROUND METAL DUCT SHALL BE WRAPED WITH 1" FIBERGLASS DUCT WRAP INSULATION. SIZE OF ROUND METAL DUCT INTO DAMPER IS TYPICALLY LESS THAN THAT GOING OUT OF THE DAMPER. SEE SCHEDULE.

5 BRANCH DUCT CONNECTION DETAIL

NO SCALE

SYMBOL LEGEND

- DOUBLE LINE DUCTWORK
- THERMOSTAT
- CONTROL TRANSFORMER
- AIR FLOW DIRECTION
- MANUAL BALANCING DAMPER
- CEILING EXHAUST FAN
- SUPPLY DUCT RISER
- RETURN DUCT RISER
- EXHAUST DUCT RISER
- TURNING VANES
- 8" INSULATED FLEXIBLE DUCT
- RL/RS — REFRIGERANT PIPING
- MAKEUP AIR UNIT SWITCH, EXHAUST FAN SWITCHES, CARBON MONOXIDE AND CARBON DIOXIDE SENSOR
- PIPE RISE
- PIPE DROP
- SUPPLY AIR DIFFUSER
- RETURN AIR CEILING REGISTER
- SIDEWALL SUPPLY/ OR RETURN REGISTER
- ROOF EXHAUSTER
- ROOF INTAKE HOOD
- FIRE DAMPER
- ELECTRIC WALL INSERT HEATER
- MOTORIZED DAMPER
- BALL VALVE
- CHECK VALVE
- GAS COCK
- GATE VALVE



KEY PLAN
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PROJECT NO. 42230136

BLDG 16-153 RENOVATION

FISHER AVE.
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HVAC SECTION AND DETAILS

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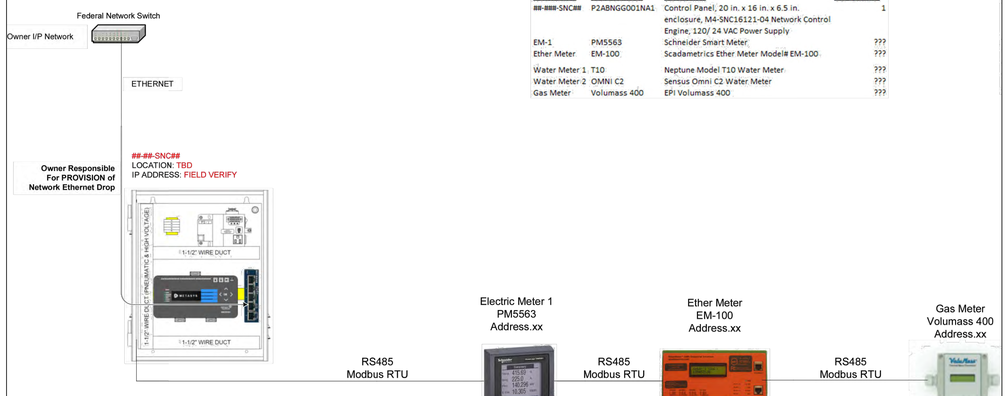
Sample Meter Flow Layout



Sample Meter Flow Layout

Bill Of Material

Designation	Code Number	Description	Ext Quantity
##-###-SNC##	P2ABNGG001NA1	Control Panel, 20 in. x 16 in. x 6.5 in. enclosure, M4-SNC16121-04 Network Control Engine, 120/ 24 VAC Power Supply	1
EM-1	PM5563	Schneider Smart Meter	???
Ether Meter	EM-100	Scadametrics Ether Meter Model# EM-100	???
Water Meter 1	T10	Neptune Model T10 Water Meter	???
Water Meter 2	OMNI C2	Sensus Omni C2 Water Meter	???
Gas Meter	Volumass 400	EPI Volumass 400	???

Drawing Title
Sample Meter Flow Layout

REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
Sales Engineer	Project Manager	Application Engineer	DRAWN				
	BK		BY BK DATE 2/16/2022		BY	DATE	
			APPROVED				

Project Title
FTIG MATOC Metering

Johnson Controls

Branch Information
Phone:

CONTRACT NUMBER

DRAWING NUMBER

BUILDING MANAGEMENT SYSTEM - CONTROLS

1. PROVIDE BUILDING MANAGEMENT SYSTEM (BMS) CONTROL PANEL. SYSTEM SHALL BE JOHNSON CONTROLS METASYS AND BE AN EXTENSION OF THE EXISTING BASE-WIDE BUILDING MANAGEMENT SYSTEM.
2. CONTACT CHRISTOPHER BARLOW AT JCI, 717-712-1871
   BMS WILL INTERFACE TO AC SYSTEMS FOR REMOTE MONITORING.
   BMS CONTRACTOR WILL FURNISH GAS SUBMETER MODEL AL-800 AND IMAC PULSIMATIC TRANSMITTER (WATER SUBMETER). CONNECT ELECTRIC SMART METER TO BMS.

SINGLE DUCT VAV BOX SCHEDULE - ELECTRIC HEAT

TAG	MFG	QTY	MODEL	SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM	INLET SP IN WC	DISCHARGE SP IN WC	ARRANGEMENT	MCA	MSCP	WEIGHT LB	ELECTRIC HEAT: HEAT CFM	EAT DEG F	LAT DEG F	HTR KW	HTR AMPS	HTR VOLTS	PHASE	STEPS	SOUND: RAD NC	DIS NC	ATTEN MECHOD	RAD SOUND POWER: 125	250	500	1000	2000	4000	DIS SOUND POWER: 125	250	500	1000	2000	4000
VAV-1	JCI	1	TSS	08	750	375	1	0.25	LH CONTROLS LH COIL	15.61	20	71	375	55	90	4.5	12.49	208	3	M	19	16	AHRI-885E	57	47	45	40	36	28	65	60	54	52	48	44
VAV-2	JCI	1	TSS	05	250	125	1	0.25	RH CONTROLS RH COIL	5.20	15	64	125	55	90	1.5	4.16	208	3	M	18	20	AHRI-885E	50	48	44	37	32	28	66	63	54	49	44	42
VAV-3	JCI	1	TSS	06	350	175	1	0.25	LH CONTROLS LH COIL	6.94	15	62	175	55	90	2.0	5.55	208	3	M	15	--	AHRI-885E	50	46	42	37	31	26	62	57	52	48	42	40
VAV-4	JCI	1	TSS	05	250	125	1	0.25	RH CONTROLS RH COIL	5.20	15	64	125	55	90	1.5	4.16	208	3	M	18	20	AHRI-885E	50	48	44	37	32	28	66	63	54	49	44	42
VAV-5	JCI	1	TSS	08	500	250	1	0.25	RH CONTROLS RH COIL	10.41	15	71	250	55	90	3.0	8.33	208	3	M	16	--	AHRI-885E	51	44	43	38	34	27	61	57	52	49	46	43
VAV-6	JCI	1	TSS	06	300	150	1	0.25	LH CONTROLS LH COIL	6.94	15	62	150	55	90	2.0	5.55	208	3	M	--	--	AHRI-885E	48	44	41	37	32	25	61	56	51	48	42	40

* "--" INDICATES THE NC VALUE (RADIATED OR DISCHARGE) THAT IS LESS THAN 15
** ACTUAL COIL APD SHOWN IS AT MAX AIRFLOW, NOT HEATING AIRFLOW
*** MCA/MSCP NUMBER MAY VARY FROM UNIT NAMEPLATE DUE TO COMPONENT CHANGES RELATED TO ACTUAL PRODUCT SELECTIONS AND DEVICES APPLIED

DUCTLESS A/C FAN COIL UNIT SCHEDULE (ARI CAPACITIES)

(CU #) (AHU #)

SYMBOL	BASIS OF DESIGN: MFG.	MODEL NO.	SUPPLY FAN: TOTAL C.F.M.	COOLING CAPACITY DATA: TOTAL M.B.H.	E.A.T.: D.B.	W.B.	HEATING CAPACITY DATA: TOTAL M.B.H.	E.A.T.: D.B.	W.B.	ELECTRICAL CHARACTERISTICS: POWER SUPPLY RATED CURRENT	VOLTAGE	REMARKS
CU-2 / AHU-2	YORK	DHP18NWB21S	471	20.0	80	67	23.4	70	70	11.54	208/60/1	1, 2

REMARKS
1. PROVIDE LITTLE GIANT VCMA-15 SERIES CONDENSATE PUMP
2. POWER FOR AHU IS FED THROUGH THE CONDENSING UNIT. WIRING SHALL BE PROVIDED WITH REFRIGERANT LINE SET THE REFRIGERANT LINE SET AND INDOOR POWER WIRING SHALL BE ROUTED TOGETHER

ELECTRIC WALL HEATER SCHEDULE

(EWH #)

SYMBOL	LOCATION	BASIS OF DESIGN: MFG.	MODEL NO.	TYPE	BTU OUTPUT	C.F.M.	TOTAL WATTS	VOLTAGE	AMPS	MOUNTING HEIGHT	UNIT DIMENSIONS DEPTH X WIDTH X HEIGHT	REMARKS
EWH-1,2,3,4,5,6	VARIES	QMARK	CWH1151DSAF	SM	2560	65	750	120V-1ø	6.25	18"	4" X 9-1/4" X 10-5/8"	1;2
EWH-7	VARIES	QMARK	CWH1151DSAF	SM	5120	65	1500	120V-1ø	12.5	18"	4" X 9-1/4" X 10-5/8"	1;3

REMARKS
1 UNIT SHALL BE PROVIDED WITH SELF CONTAINED THERMOSTAT, BUILT-IN POWER DISCONNECT, FAN DELAY AND COMMERCIAL GRADE STEEL GRILLE.
2 UNIT SHALL BE RECESSED
3 PROVIDE CWHSMAG SURFACE MOUNTING FRAME

EXHAUST FAN SCHEDULE

(EF)

SYMBOL	SERVING	BASIS OF DESIGN: MFG.	MODEL NO.	TYPE	C.F.M.	E.S.P.	ELECTRICAL DATA: FAN MOTOR M.O.P.	VOLTAGE	REMARKS
EF-1,2,3	TOILET ROOMS/ SHOWER	GREENHECK	SP-A90-130-VG-QD	C	100	0.10	15	115V-1ø	1 2

REMARKS
1 PROVIDE INTERNAL BACKDRAFT DAMPER, DISCONNECT SWITCH, HANGING ISOLATORS AND SQUARE TO ROUND DUCT TRANSITION.
2 PROVIDE GREENHECK MODEL 5WSSC SPEED CONTROL (OR APPROVED EQUAL) FOR BALANCING TO SCHEDULED CFM.
3 PROVIDE GREENHECK MODEL 12x8 BVE128 ALUMINUM BRICK VENT WITH ALUMINUM MESH INSECT SCREEN

TYPE: C = CEILING TYPE

HEAT PUMP CONDENSING UNIT SCHEDULE (ARI CAPACITIES)

(HP)

SYMBOL	BASIS OF DESIGN: MFG.	MODEL NO.	COOLING CAPACITY: TOTAL MBH	E.E.R.	KW	HEATING CAPACITY: TOTAL MBH	C.O.P.	KW	ELECTRICAL CHARACTERISTICS: COMPRESSOR R.L.A.	L.R.A.	O.D. FAN H.P.	F.L.A.	POWER SUPPLY M.C.A.	M.O.P.	VOLTAGE	REMARKS
HP-1	YORK	PE090C00A2BAB5	82.8	11.00	6.40	82	3.4	5.52	25.3	184	-	2/1.65	34.9	45	230-3-60	1

REMARKS
1 UNIT SHALL BE PROVIDED WITH THE FOLLOWING ACCESSORIES: TIME DELAY RELAY, LOW AMBIENT CONTROLLER, WINTER START CONTROL, EVAPORATOR DEFROST CONTROL KIT, HIGH/LOW PRESSURE CUT-OUT SWITCH, 6" HIGH SNOW LEGS, AND WEATHER PROOF DISCONNECT.

HEAT PUMP AIR HANDLING UNIT SCHEDULE (ARI CAPACITIES)

(AHU)

SYMBOL	BASIS OF DESIGN: MFG.	MODEL NO.	SUPPLY FAN CAPACITY: TOTAL C.F.M.	O.A. C.F.M.	R.P.M.	E.S.P.	COOLING CAPACITY: TOTAL M.B.H.	R.A. TEMP. D.B.	R.A. TEMP. W.B.	O.A. TEMP.	HEATING CAPACITY: TOTAL M.B.H.	O.A. TEMP. D.B.	O.A. TEMP. W.B.	R.A. TEMP.	AUX. COIL K.W.	AUX. COIL STAGES	ELECTRICAL DATA: SUPPLY FAN H.P.	SUPPLY FAN F.L.A.	POWER SUPPLY M.C.A.	POWER SUPPLY M.O.P.	VOLTAGE	REMARKS
AHU-1	YORK	NL090C00B2CAA2	2,400	240	938	1.0	-	-	-	-	88.7	43.3	43.2	60	26	MODULATING	1.5	4.2	83.4	90.0	230-3-60	1 2

REMARKS
1 UNIT SHALL BE FURNISHED WITH SECONDARY/26 KW AUX. ELECTRIC HEATING SECTION.
2 UNIT SHALL BE PROVIDED WITH STERLING GAS FURNACE MODEL QVED150A2K2AB100S3S1K5

NOTES
1. PROVIDE ALL MATERIALS AND LABOR FOR COMPLETE AND PROPERLY FUNCTIONING MECHANICAL SYSTEMS. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.
2. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF:
   A. INTERNATIONAL MECHANICAL CODE - 2015
   B. SMACNA
   C. ASHRAE
   D. ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES WHICH APPLY TO THIS WORK
3. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS.
4. ALL MATERIALS, EQUIPMENT AND DEVICES SHALL MEET THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE USED.
5. COORDINATE LOCATION OF MECHANICAL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
6. INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN, PRINTED INSTRUCTIONS AND RECOMMENDATIONS.
7. ALL EQUIPMENT, PIPE AND DUCTWORK ABOVE CEILING SHALL BE SUPPORTED FROM BUILDING STRUCTURE ABOVE.
8. ALL BUILDING PENETRATIONS SHALL BE COORDINATED WITH ARCHITECT.
9. PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH IBC 2015 AS MANUFACTURED BY MASON INDUSTRIES OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS FOR APPROVAL.
10. ABOVE GRADE GAS PIPING 2" AND SMALLER SHALL BE STANDARD WEIGHT (SCHEDULE 40), BUTT WELD, BLACK STEEL, ENDS THREADED, AND COMPLY WITH ASTM A53. FITINGS SHALL BE 150 POUND, BLACK MALLEABLE IRON, THREADED JOINT, AND COMPLY WITH ASTM A47/ANSI B16.3.
11. ALL VENTS, DUCTS, AND SIMILAR OPENINGS IN EXCESS OF 96 SQUARE INCHES THAT ENTER OR PASS THROUGH A SAPF MUST BE PROTECTED WITH EITHER BARS OR GRILLS. IF ONE DIMENSION OF THE DUCT MEASURES LESS THAN SIX INCHES, OR DUCT IS LESS THAN 96 SQUARE INCHES, BARS, OR GRILLS ARE NOT REQUIRED. BARS MUST BE 1/2 INCH DIAMETER STEEL SPOT WELDED TO THE STEEL STRUCTURE; A DEVIATION OF 1/2 INCH IN VERTICAL AND/OR HORIZONTAL SPACING IS PERMISSIBLE.

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HVAC SCHEDULES

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OFFICE STORAGE
KEY PLAN
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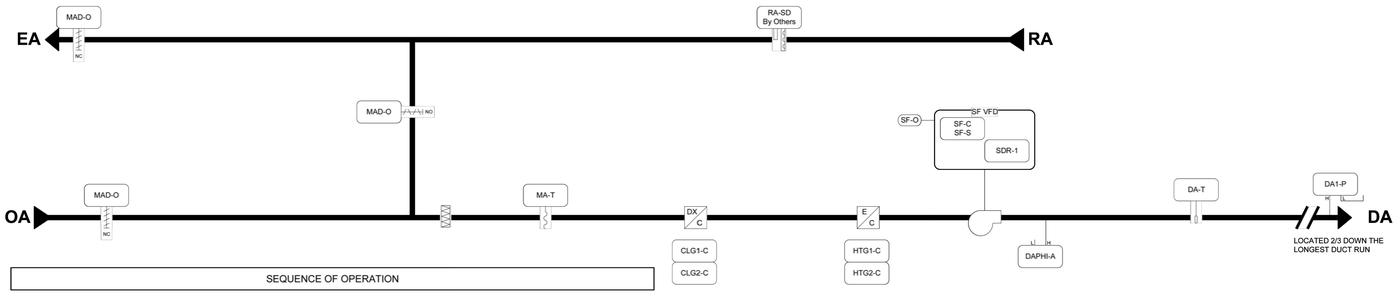


SEQUENCE OF OPERATION

SUPPLY FAN CONTROL:
The variable speed supply fan (SF-C) will be started based on occupancy schedule (OCC-SCHEDULE). When the supply fan status (SF-S) indicates the fan started, the control sequence will be enabled. The supply fan (SF-O) will modulate to maintain the discharge static pressure (DA-P) at setpoint (DAP-SP). Upon a loss of airflow (SF-S), the system will attempt to automatically restart until positive status is received.

ECONOMIZER CONTROL:
When the outdoor air (OA-T) is cooler than the economizer setpoint, the economizer will act as the initial stage of cooling, working in sequence with the cooling coil.

MINIMUM OA CONTROL:
The fresh air intake of the unit will be limited to prevent the mixed air temperature (MA-T) from falling below the low limit setpoint (OALT-SP).

TEMPERATURE CONTROL:
The unit will control to maintain a discharge air temperature (DA-T). DA-T will be reset between 55-65 degrees based on zone demand from the VAV boxes

OCCUPIED MODE:
The occupancy mode will be controlled via a network input (OCC-SCHEDULE). The occupancy mode can also be overridden by a network input (OCC-OVERRIDE).

UNOCCUPIED MODE:
The unit will remain off during unoccupied periods. Unoccupied heating and cooling will be initiated by unoccupied setpoints from the VAV boxes.

COOLING COIL:
The cooling coil (CLGx-C) will be staged in sequence to maintain the temperature setpoint.

REHEAT COIL:
The reheat coil (HTGx-C) will be staged in sequence to maintain the temperature setpoint.

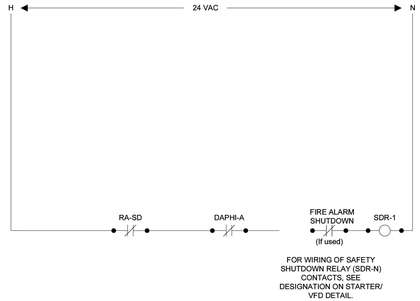
UNIT PROTECTION:

- Return Air Smoke Detector (RA-SD) - Disables the fan(s) via a hard wired shutdown circuit.

ADDITIONAL POINTS MONITORED BY THE FMS:

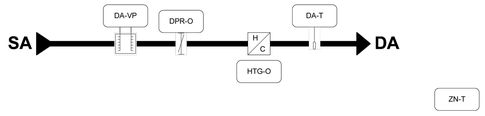
- Return Air Smoke Alarm (RA-SD)

Safety Shutdown Relay Coil Wiring Detail



FOR WIRING OF SAFETY SHUTDOWN RELAY (SDR-N) CONTACTS, SEE DESIGNATION ON STARTER/ VFD DETAIL.

1 AHU FLOW LAYOUT
NOT TO SCALE



VAV

OCCUPIED MODE:

When the zone temperature (ZN-T) is between the occupied heating (EFFHTG-SP) and cooling (EFFCLG-SP) setpoints (inside of the bias), the primary air damper (DPR-O) will be at the minimum CFM (SA-F) and there will be no mechanical heating. On a rise in zone temperat (ZN-T) above the cooling setpoint (EFFCLG-SP), the primary air damper (DPR-O) will increase the CFM (SA-F) and there will be no mechanical heating. On a drop in zone temperature (ZN-T) below the heating setpoint (EFFHTG-SP), the reheat coil will modulate to maintain the discharge air temperature setpoint. The discharge air temperature setpoint will be reset as the zone temperature (ZN-T) changes. The primary air damper (DPR-O) is controlled to provide a minimum CFM (SA-F).

UNOCCUPIED MODE:

When in this mode, while the zone temperature (ZN-T) is between the unoccupied heating (EFFHTG-SP) and cooling (EFFCLG-SP) setpoir (inside of the bias), the primary air damper (DPR-O) will be at the minimum CFM (SA-F) and there will be no mechanical heating. On a ris in zone temperature (ZN-T) above the unoccupied cooling setpoint (EFFCLG-SP), the primary air damper (DPR-O) will increase the CFM (S F) (if available) and there will be no mechanical heating. On a drop in zone temperature (ZN-T) below the unoccupied heating setpoint (EFFHTG-SP), the reheat coil will be used to maintain the zone temperature (ZN-T) and the primary air damper (DPR-O) will be at the minimum CFM (SA-F).

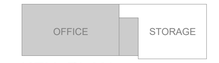
UNIT ENABLE:

A network unit enable (UNITEN-MODE) signal will control the mode of the box.

POWER FAIL RESTART:

Upon power restoration, the vav box restart shall be delayed (60 sec).

2 VAV FLOW LAYOUT (TYPICAL)
NOT TO SCALE



KEY PLAN
NOT TO SCALE

VERIFY SCALE

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0 — 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

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NO.	DESCRIPTION	DATE

REVISIONS

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

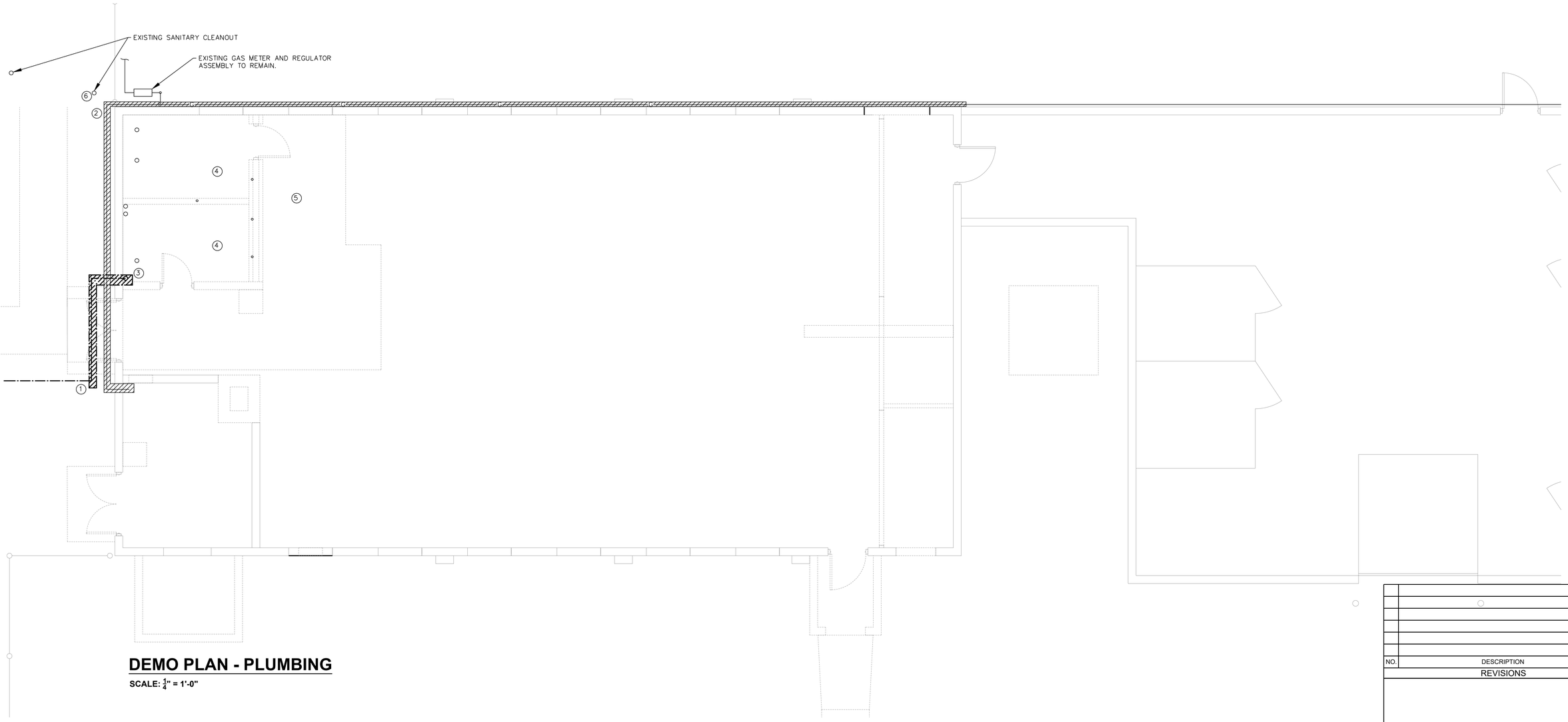
DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO. 42230136

BLDG 16-153
RENOVATION
FISHER AVE.
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

HVAC CONTROL SEQUENCES

DRAWN BY	DATE	DRAWING NO.
B. TOEVS	15 MAR 2024	H.3.2
CHECKED BY	SCALE	
	AS NOTED	



DEMO PLAN - PLUMBING

SCALE: $\frac{1}{4}$" = 1'-0"

GENERAL DEMOLITION NOTES:

1. PLUMBING (.3) CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL PLUMBING RELATED EQUIPMENT, FIXTURES, PIPING, PIPING ACCESSORIES, ETC. REMOVED DURING DEMO WORK.
2. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THAT OF OTHER TRADES.

DEMOLITION NOTES

(1) EXCAVATE AND REMOVE EXISTING WATER SERVICE AS INDICATED BY HATCHED AREA. PREPARE EXISTING PIPING FOR CONNECTION TO NEW WATER SERVICE ENTRY PIPING.

(2) REMOVE PORTION OF EXISTING ABOVE GROUND GAS SERVICE FEEDING THE EXISTING FURNACES. CAP GAS PIPING AT THE POINT OF DISCONNECTION.

(3) REMOVE AND RETAIN WATER METER AND TURN OVER TO DIVISION OF INSTALLATION MAINTENANCE (DIM)

(4) REMOVE EXISTING (REMAINING) PLUMBING FIXTURES, TO INCLUDE ALL ASSOCIATED PIPING (WATER, SANITARY AND VENT), VALVES, ETC.

(5) PLUMBING CONTRACTOR (.3) IS RESPONSIBLE FOR EXCAVATION TRENCHING, BEDDING, BACKFILL, AND COMPACTION. ALL SAW CUTTING AND CONCRETE REMOVAL SHALL BE COORDINATED WITH GENERAL CONTRACTOR (.1).

(6) MAINTAIN AND PROTECT EXISTING YARD CLEAN OUT AND EXISTING SANITARY SEWER SERVICE TO BUILDING AND TO STREET MAIN.

KEY PLAN
NOT TO SCALE

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PLUMBING DEMOLITION PLAN

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B. TOEVS	15 MAR 2024	P.1.0
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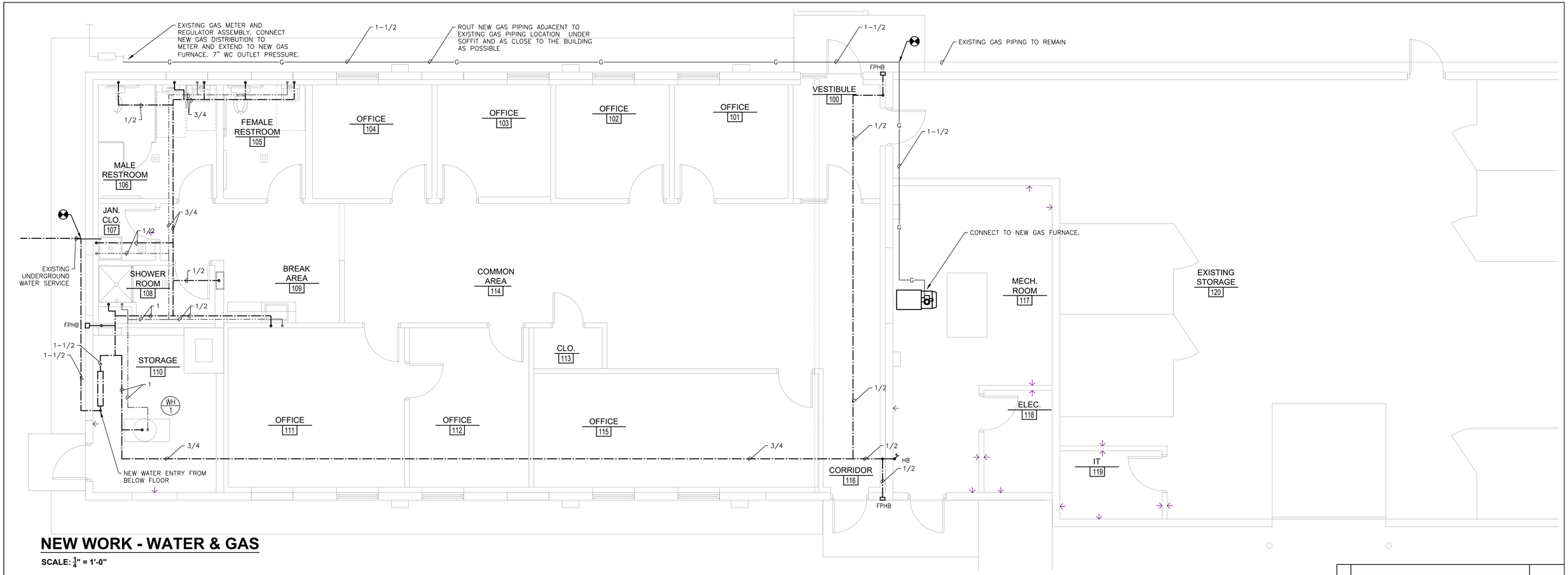
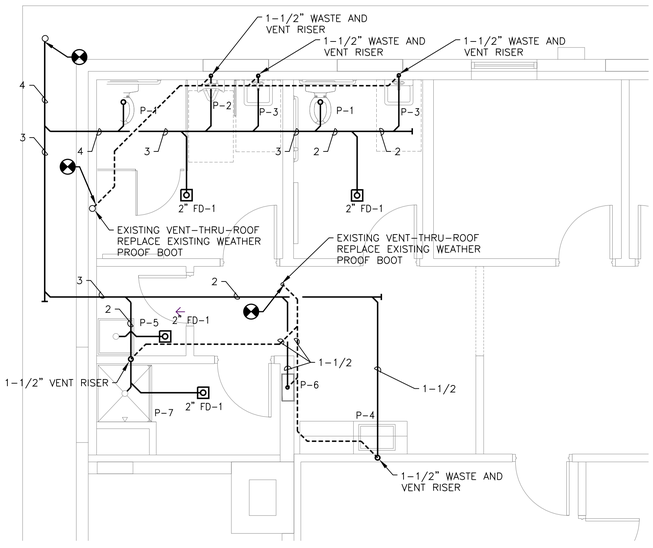


NEW WORK - WATER & GAS

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



NEW WORK - SANITARY & VENT

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

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PLUMBING FLOOR PLAN

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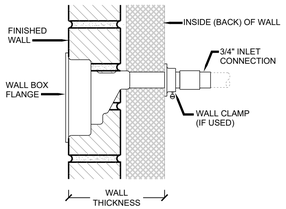
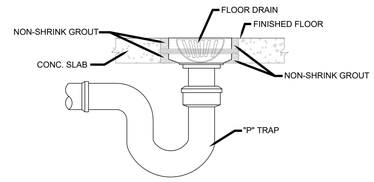
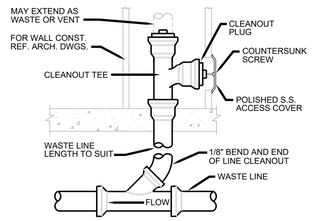
	AS NOTED	



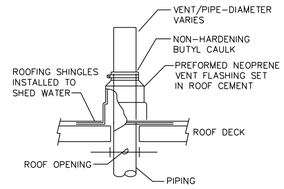
FREEZEPROOF WALL HYDRANT
SCALE : NONE
1 P.2.1



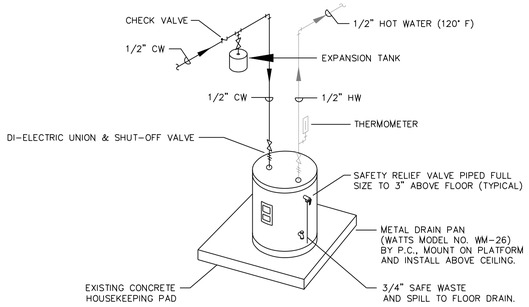
FLOOR DRAIN DETAIL
SCALE : NONE
2 P.2.1



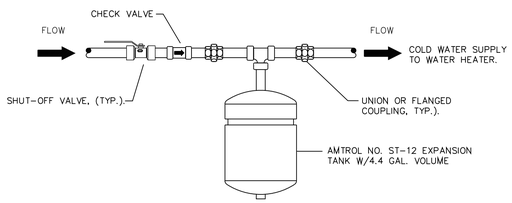
WALL CLEANOUT DETAIL
SCALE : NONE
3 P.2.1



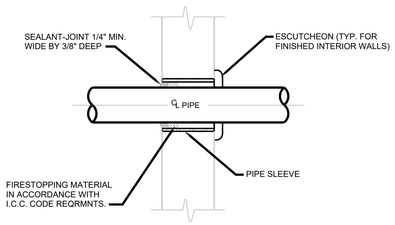
ROOF PENETRATION DETAIL
SCALE : NONE
4 P.2.1



TYPICAL WATER HEATER DETAIL
SCALE : NONE
5 P.2.1



EXPANSION TANK DETAIL
SCALE : NONE
6 P.2.1



TYPICAL WALL PENETRATION DETAIL
SCALE : NONE
7 P.2.1

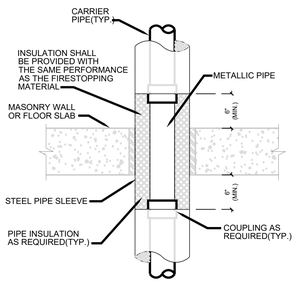
ABBREVIATIONS

AB	ABOVE	HWR	HOT WATER RETURN
AC	AIR CONDITIONING	HWS	HOT WATER SUPPLY
ADJ	ADJUSTABLE	HZ	HERTZ
AFF	ABOVE FINISHED FLOOR	ID	INSIDE DIAMETER
AFG	ABOVE FINISHED GRADE	IN	INCHES
AHU	AIR HANDLING UNIT	IWC	INCHES OF WATER COLUMN
ATC	AUTO TEMP CONTROL	LAT	LEAVING AIR TEMPERATURE
AUTO	AUTOMATIC	LF	LINEAT FEET
AVG	AVERAGE	LRA	LOCKED ROTOR AMPS
AWT	AVERAGE WATER TEMP.	MAX	MAXIMUM
BJ	BETWEEN JOISTS	MBH	THOUSAND BTU'S PER HOUR
BLDG	BUILDING	MCA	MINIMUM CIRCUIT AMPS
BEL	BELOW	MECH	MECHANICAL
BOT	BOTTOM	MER	MECHANICAL EQUIPMENT ROOM
BTU	BRITISH THERMAL UNITS	MFG	MANFACTURER
BTUH	BRITISH THERMAL UNITS PER HOUR	MIN	MINIMUM
CAP	CAPACITY	MOD	MOTOR OPERATED DAMPER
CFM	CUBIC FEET PER MINUTE	MTD	MOUNTED OR MOUNTING
CHWR	CHILLED WATER RETURN	NC	NORMALLY CLOSED
CHWS	CHILLED WATER SUPPLY	NIC	NOT IN CONTRACT
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEANOUT	NOM	NOMINAL
CONC	CONCRETE	NO	NUMBER
COND	CONDENSATE	OA	OUTSIDE AIR
CONN	CONNECT OR CONNECTION	OPNG	OPENING
CONT	CONTINUATION	%	PERCENT
CONTD	CONTINUED	PC	PLUMBING CONTRACTOR
CONTR	CONTRACTOR	PH OR ø	PHASE
CONV.	CONVECTOR	QTY	QUANTITY
CW	COLD WATER	RA	RELIEF / RETURN AIR
DB	DRY BULB	R.D.	RECESSED DEPTH
DEG	DEGREE	RD	ROUND
DIA	DIAMETER	REQD	REQUIRED
DISCH	DISCHARGE	REG.	REGISTER
DN	DOWN	RL	REFERIGERANT LIQUID PIPING
DPR	DAMPER	RLA	RUNNING LOAD AMPS
DR	DUCT RISER	RPM	REVOLUTIONS PER MINUTE
DWG	DRAWING	RS	REFERIGERANT SUCTION PIPING
DX	DIRECT EXPANSION	RTN	RETURN
EA	EXHAUST AIR	SA	SUPPLY AIR
EAT	ENTERING AIR TEMPERATURE	SD	SMOKE DETECTOR
EC	ELECTRICAL CONTRACTOR	SEER	SEASONAL ENERGY EFFICIENCY RATING
EER	ENERGY EFFICIENCY RATING	SENS	SENSIBLE
EF	EXHAUST FAN	SHT	SHEET
ELECT	ELECTRICAL	SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE	SS	STAINLESS STEEL
EWT	ENTERING WATER TEMP	STAT	THERMOSTAT
EXH	EXHAUST	STD	STANDARD
EXIST	EXISTING	SUSP	SUSPEND OR SUSPENDED
EXT	EXTERNAL	SV	SAFETY VALVE
F	FAHRENHEIT	SW	SAFETY WASTE
FA	FRESH AIR	TEMP	TEMPERATURE
FAI	FRESH AIR INTAKE	TJ	THROUGH JOISTS
FD	FIRE DAMPER	TOT	TOTAL
FL	FLOOR	TSP	TOTAL STATIC PRESSURE
FLA	FULL LOAD AMPS	TYP	TYPICAL
FR	FROM	VAC	VACUUM
GC	GENERAL CONTRACTOR	VERT	VERTICAL
GPM	GALLONS PER MINUTE	VOL	VOLUME
HC	HEATING CONTRACTOR	VR	VENT RISER
HORZ	HORIZONTAL	VTR	VENT-THRU-ROOF
HUH	HORIZONTAL UNIT HEATER	W	WATTS
HVAC	HEATING VENTILATING AIR CONDITIONING	W/	WITH
HP	HORSE POWER	WB	WET BULB
H.P.	HIGH PRESSURE	WCO	WALL CLEANOUT
HW	HOT WATER	WP	WEATHER PROOF

NOTE: THE ABOVE SCHEDULE IS A STANDARD. THE ABBREVIATIONS DO NOT NECESSARILLY APPEAR ON THE DRAWINGS FOR THIS PROJECT.

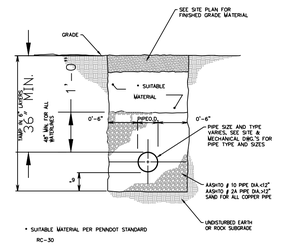
SYMBOL LEGEND

- (CW) COLD WATER
- (HW) HOT WATER
- (V) VENT
- (SAN) SANITARY
- (G) GAS
- FPHB — FREEZE-PROOF HOSE BIBB
- HB — HOSE BIBB
- RPZ BACKFLOW PREVENTER
- WHA — WATER HAMMER ARRESTOR
- FCO — FLOOR CLEAN OUT
- WCO — WALL CLEAN OUT
- PIPE RISE
- PIPE DROP (ELBOW)
- PIPE DROP (TEE)
- SHUT-OFF VALVE
- CHECK VALVE
- STRAINER
- PRESSURE RELIEF VALVE
- UNION
- PIPE BREAK
- (M) WATER METER
- FLOOR DRAIN
- CONNECT TO EXISTING

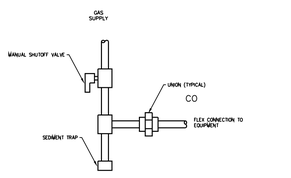


NOTE: PIPE SLEEVE SHALL BE SIZED TO PROVIDE 1/4" ALL AROUND CLEARANCE.

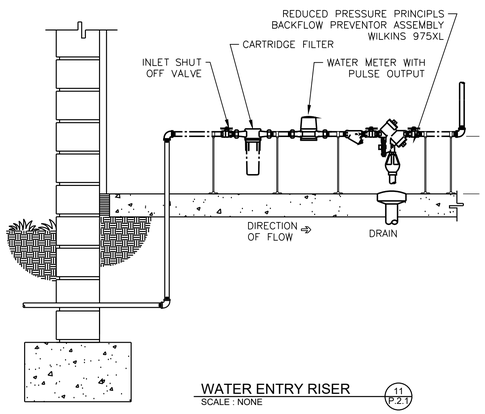
TYPICAL PENETRATION @ CONC. FLOOR OR MASONRY WALL
SCALE : NONE
8 P.2.1



PIPE BEDDING DETAIL
SCALE : NONE
9 P.2.1



TYPICAL GAS CONNECTION
SCALE : NONE
10 P.2.1



WATER ENTRY RISER
SCALE : NONE
11 P.2.1

WATER HEATER SCHEDULE

SYMBOL	BASIS OF DESIGN		MAXIMUM INPUT WATTS	GPH @ 100° RISE	GPH @ 60° RISE	WATER CONN.	ELECTRICAL		REMARKS
	MANUFACTURER	MODEL					VOLTS	AMPS	
WH-1	BRADFORD WHITE	ELECTRIFLEX LD LE11QU3-1	3000	12	21	3/4"	208		

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	BASIS OF DESIGN	C.W.	H.W.	SAN	VENT	MOUNTING	RIM HEIGHT	REMARKS
P-1	WATER CLOSET-TANK	KOHLER WELLWORTH MODEL NO. K-3505-0	3/4"	-	4"	2"	FLOOR	STD	
P-2	URINAL	KOHLER DEXTER MODEL NO. K-5016-ET	3/4"	-	2"	1-1/2"	WALL	STD.	
P-3	LAVATORY	KOHLER KINGSTON MODEL NO. K-2005-0	1/2"	1/2"	1-1/2"	1-1/4"	WALL	STD.	③
P-4	KITCHEN SINK	JUST MFG. MODEL NO. SL1921A3-J	1/2"	1/2"	1-1/2"	1-1/4"	COUNTER	SEE ARCH.	④
P-5	MOP SINK	FIAT MODEL NO. MSB2424	3/4"	3/4"	1-1/2"	1-1/2"	FLOOR	---	②
P-6	BOTTLE FILLING STATION	ELKAY MODEL NO. EZWSM0K	3/8"	-	1-1/4"	-	WALL	SEE ARCH.	
P-7	SHOWER	FREEDOM SHOWERS MODEL APF3838SHRRF	1/2"	1/2"	2"	1-1/2"	FLOOR	---	①
FPHB	FREEZE-PROOF HOSE BIB	ZURN MODEL NO. Z130-CXL	3/4"	-	-	-	WALL	24" AFF	
HB	HOSE BIB	WOODFORD MODEL NO. 24C	3/4"	-	-	-	WALL	24" AFG	
FD-1	FLOOR DRAIN	ZURN MODEL NO. Z415-5B-P	---	---	2"	---	FLOOR	---	

① AMERICAN STANDARD COLONY SOFT SHOWER-ONLY TRIM PACKAGE
② PROVIDE 830AA SERVICE SING FAUCET, 832AA HOSE/BRACKET COMBINATION, 889CC MOP HANGER BRACKET
③ FAUCET SHALL MEET ASSE 1070, BASIS OF DESIGN: POWERS MODEL NO. ES-P-105_115.
④ JUST MFG J-902 FAUCET, SINGLE HANDLE, WITH SPRAY AND JUST MFG J-35-SSF-SS DRAIN WITH FLAT GRID STRAINER

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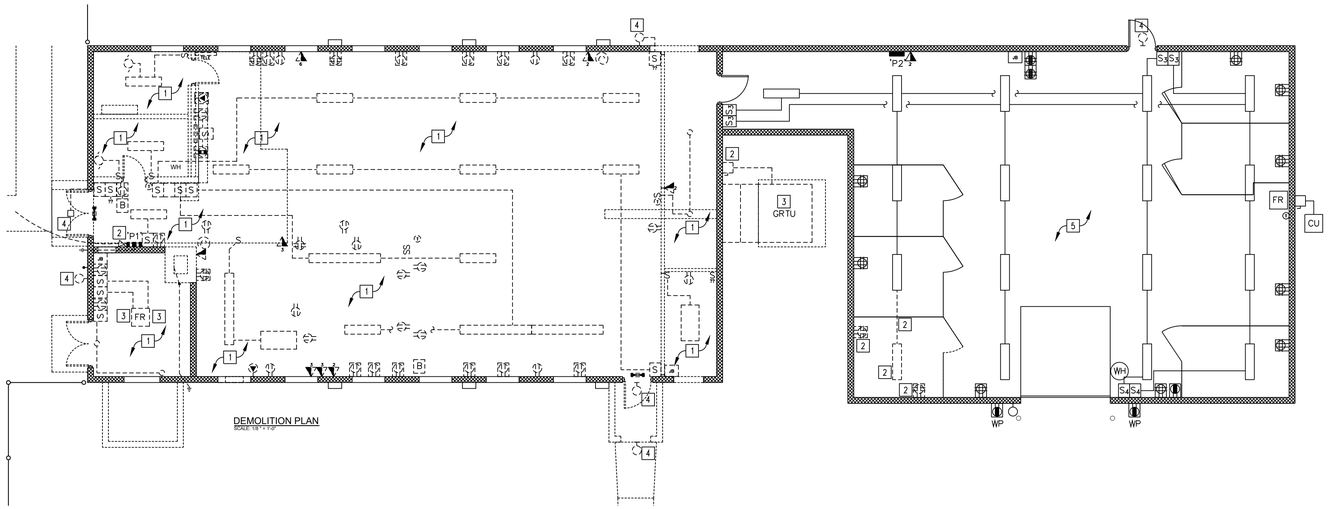
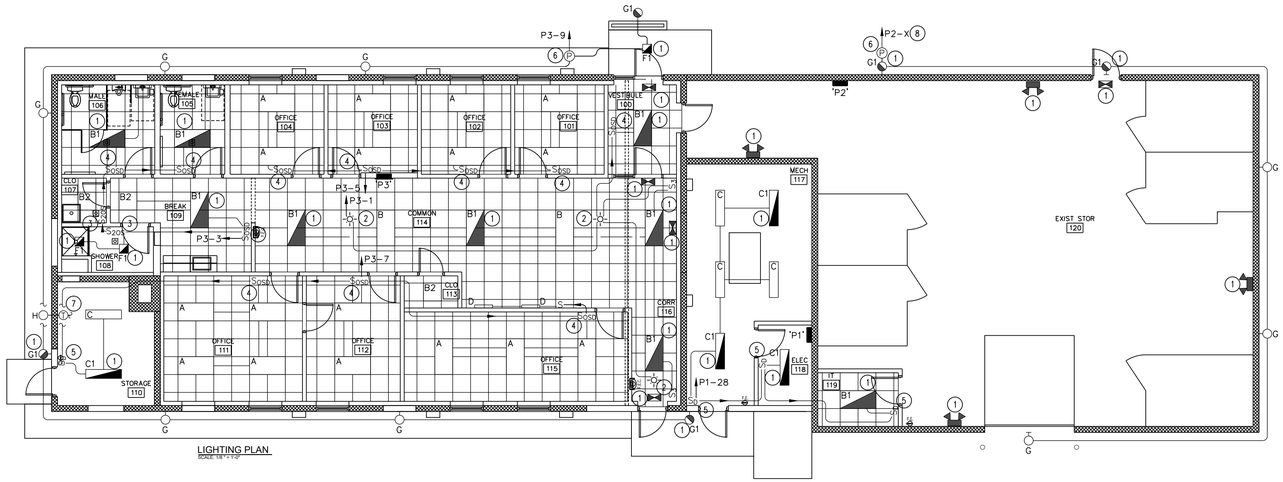
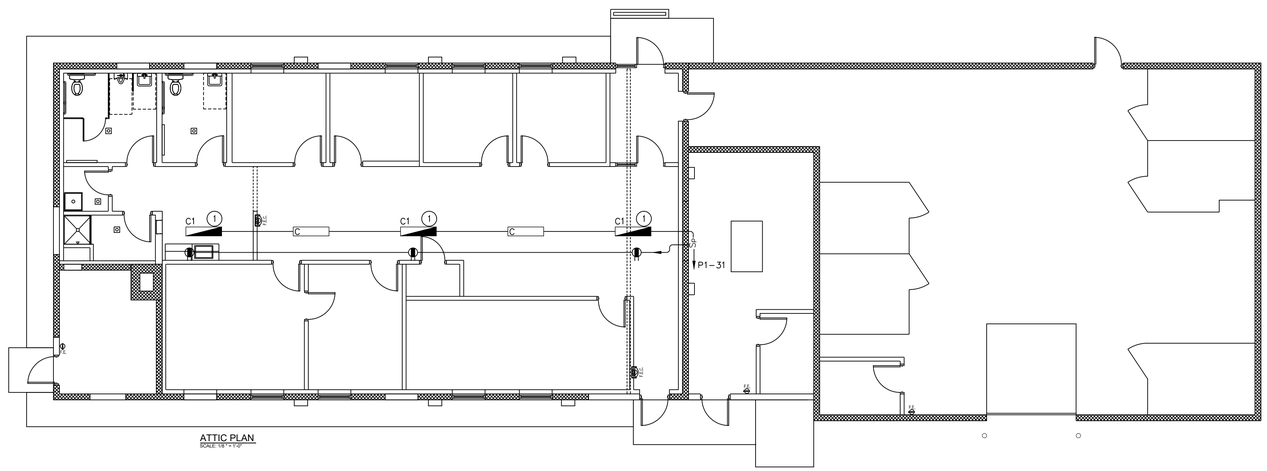
PLUMBING SCHEDULES AND DETAILS

DRAWN BY	DATE	DRAWING NO.
B. TOEVS	15 MAR 2024	P.2.1
CHECKED BY	SCALE	
	AS NOTED	







DEMOLITION PLAN NOTES:

1. ALL EXISTING ELECTRICAL OUTLETS, DEVICES, LIGHTING FIXTURES, SWITCHES, AND DATA OUTLETS SHALL BE REMOVED THIS AREA UNO. REMOVE ALL EXISTING CONDUIT, WIRE, AND BOXES DOWN TO ORIGINAL CONSTRUCTION BACK TO POINT OF SERVICE UNLESS BEING RE-USED.
2. EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICE TO BE REMOVED. COORDINATE TEMP. POWER PRIOR TO DEMO OF PANELBOARD.
3. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED.
4. EXISTING EXTERIOR MOUNTED FIXTURE TO BE REMOVED. SEE LIGHTING PLAN FOR NEW INSTALLATIONS.
5. ALL EXISTING ELECTRICAL OUTLETS, DEVICES, LIGHTING FIXTURES, SWITCHES, AND DATA OUTLETS SHALL REMAIN THIS AREA UNO.

GENERAL NOTES FOR ALL ELECTRICAL DEMOLITION PLANS

1. WHEN A DEVICE IS REMOVED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CIRCUITING TO UPSTREAM OR DOWNSTREAM DEVICES TO REMAIN FOR FULL OPERATION. WHEN A "CIRCUIT" IS TO BE REMOVED, THE CIRCUIT SHALL BE REMOVED ONLY IF THE PARTICULAR DEVICES ARE THE ONLY ITEMS ON THE CIRCUIT. IF THERE ARE OTHER DEVICES OR EQUIPMENT ON THE CIRCUIT, ONLY THE DEVICE OR EQUIPMENT SHALL BE REMOVED. MAINTAIN CIRCUITRY TO REMAINING DEVICES AS REQUIRED.
2. IN GENERAL, ALL DEVICES, OUTLETS, CONDUIT, WIRING, LIGHTING FIXTURES, AND EQUIPMENT ARE TO BE REMOVED UNLESS NOTED OTHERWISE (UNO).
3. ALL MATERIALS REMOVED BECOME THE PROPERTY OF THE CONTRACTOR UNO AND SHALL BE REMOVED FROM THE PROJECT SITE IN A LEGAL MANNER AFTER DMVA HAS RECEIVED THE FIRST RIGHT OF REFUSAL. ALL MATERIALS SPECIFIED TO BE TURNED OVER TO DMVA PERSONNEL SHALL BE IN THE CONDITION IN WHICH THEY WERE PRIOR TO REMOVAL.
4. CONDUIT SYSTEMS AND WIRING MAY BE RE-USED IF THEY ARE IN EXCELLENT CONDITION, OF THE PROPER SIZE AND RATING, AND IN THE PROXIMITY TO WHERE THEY ARE NEEDED. OTHERWISE, UNLESS NOTED TO REMAIN, SHALL BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR ALL CIRCUITING ON THE NEW WORK PLANS WHETHER UTILIZING EXISTING OR PROVIDING NEW. ALL CIRCUITING MUST BE MODERN THHN/THWN, CU CONDUCTOR BUILDING WIRE IN EMT CONDUIT IN ORDER TO BE RE-USED, OTHERWISE, IT MUST BE REPLACED. CABLE IS NOT ALLOWED UNO.
5. IN GENERAL, SYMBOLS INSIDE A BOX REPRESENT SURFACE MOUNTED DEVICES. SYMBOLS WITHOUT A BOX REPRESENT FLUSH MOUNTED DEVICES. WHEN A DEVICE IS INDICATED TO BE REMOVED, ALL ASSOCIATED ACCESSIBLE CONDUIT, SURFACE METAL RACEWAY, WIRING, AND BOXES SHALL BE REMOVED BACK TO SOURCE. PROVIDE BLANK COVERS FOR FLUSH MOUNTED BOXES IF NOT RE-USED.
6. WHEN ELECTRICAL EQUIPMENT IS TO BE REMOVED, THE E.C. SHALL REMOVE ALL CONDUIT, WIRE, HANGERS, SUPPORTS, BOXES, ETC. BACK TO SOURCE.
7. IN GENERAL, ITEMS TO BE REMOVED ARE DASHED, AND THOSE THAT ARE TO BE RE-CONNECTED AND/OR REMAIN ARE LIGHT AND SOLID.
8. THE INTENTION IS TO REMOVE ALL EXISTING ELECTRICAL CONDUIT, WIRE, BOXES, HANGERS, PANELS, LIGHT FIXTURES, ETC. WITH THE EXCEPTION OF THE CATV, WHICH SHOULD BE NEATLY COILED ABOVE CEILING AND LOCATED ON AS-BUILT. UTILIZE EXISTING SERVICE FOR TEMPORARY POWER AS LONG AS POSSIBLE.

LIGHTING PLAN NOTES:

1. EXTEND AND CONNECT EMERGENCY BATTERY FOR EMERGENCY LIGHTING UNITS AND EXITS TO UNSWITCHED HOT LEG OF LIGHTING CIRCUIT IN THE AREA IN WHICH IT SERVES.
2. LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR, 2 POLE, SENSORSWITCH #CMR-PDT-9-2P OR APPROVED EQUAL. IF MULTIPLE CONTROLS, THEN WIRE IN PARALLEL SUCH THAT IF ANY SENSOR IS ACTIVATED, THE LIGHTS TURN ON. MANUAL SWITCHING SHALL BE ON THE LOAD SIDE OF THE SENSOR.
3. LINE VOLTAGE WALL BOX OCCUPANCY SENSOR, 2 POLE, SENSORSWITCH #WSD-PDT-2P-GY OR APPROVED EQUAL.
4. LINE VOLTAGE WALL BOX OCCUPANCY SENSOR/0-10V DIMMER, SENSORSWITCH #WSXA-PDT-D-SA-GY-BAA OR APPROVED EQUAL.
5. WALL BOX DIMMER, SENSORSWITCH #SPODMRA-D-GY-BAA OR APPROVED EQUAL. WIRE AS PER MANUFACTURERS INSTRUCTIONS.
6. WIRE EXTERIOR LIGHTS VIA 2 CHANNEL ASTRONOMIC DIGITAL TIMECLOCK. WIRE LIGHTING FOR PHOTOCELL ON/TIMECLOCK OFF OPERATION.
7. FREEZE PROTECTION WARNING LIGHT, WIRE VIA REVERSE ACTING STAT AND EXTEND TO NEAREST CONVENIENCE OUTLET, SEE POWER PLAN.
8. EXTEND AND CONNECT TO EXISTING SPARE CIRCUIT BREAKER IN PANEL 'P2'.

ATTIC PLAN NOTES:

1. EXTEND AND CONNECT EMERGENCY BATTERY FOR EMERGENCY LIGHTING UNITS AND EXITS TO UNSWITCHED HOT LEG OF LIGHTING CIRCUIT IN THE AREA IN WHICH IT SERVES.

NO.	DESCRIPTION	DATE
	REVISIONS	

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO. 42230136

BLDG 16-153 RENOVATION

FISHER AVE.
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

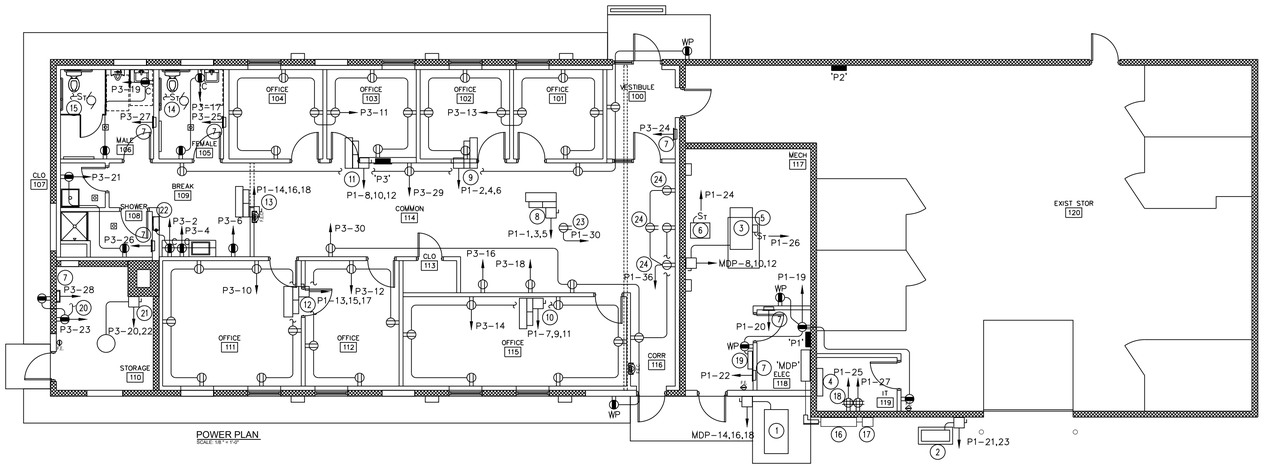
DEMO, LIGHTING & ATTIC

VERIFY SCALE

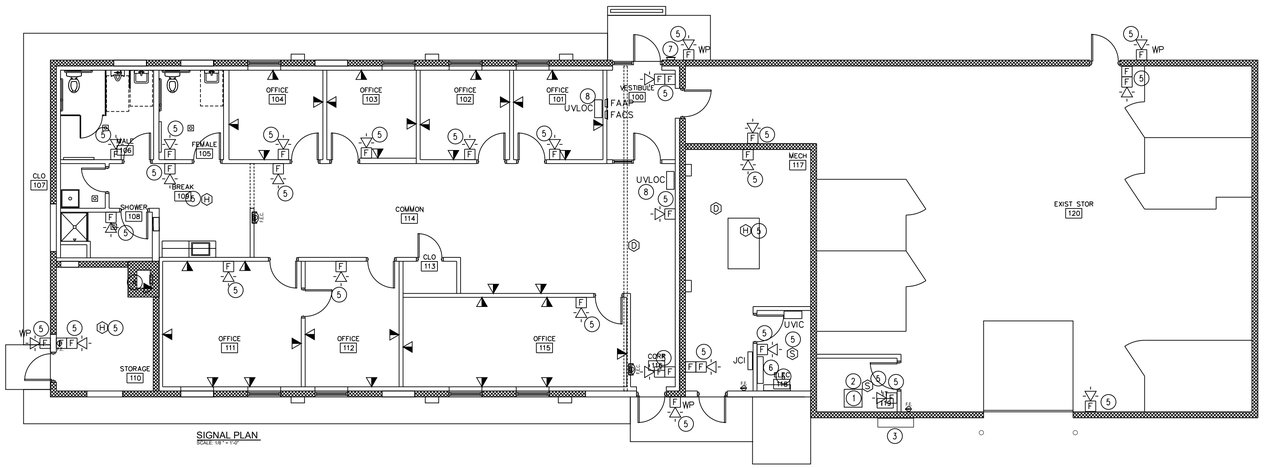
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
B. BARGER	15 MAR 2024	E.1.1
CHECKED BY	SCALE	
D. HEALEY	AS NOTED	



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



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

POWER PLAN NOTES:

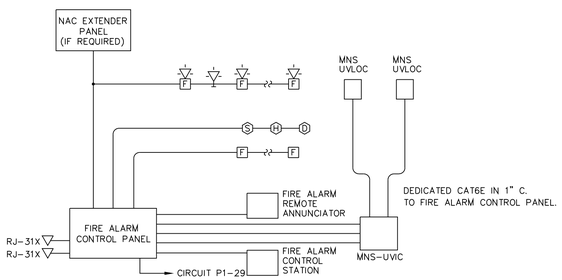
1. CU-1 BY H.C., 208V-3ø, 28.0 FLA, 34.9 MCA. PROVIDE 60A-3P WP FDS, FUSE AT 45A.
2. CU-2 BY H.C., 208V-1ø, 14.7 FLA, 16.0 MCA. PROVIDE 30A-2P WP FDS, FUSE AT 25A.
3. AHU-1 BY H.C., 208V-3ø, 78.0A FLA, 83.4 MCA. PROVIDE 100A-3P FDS, FUSE AT 90A.
4. AHU-2 BY H.C., FED VIA CU-2 VIA LINESET CONTROL CABLE.
5. UV LIGHT BY H.C., 120V-1ø, 1.6A FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS.
6. DUCT FURNACE BY H.C., 120V-1ø, 5 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS.
7. EWH-1 THRU 7 BY H.C., 120V-1ø, 1500W, 12.5A. TERMINATE IN UNIT AS RECOMMENDED BY MANUFACTURER.
8. VAV-1 BY H.C., 208V-3ø, 4.5KW, 12.5A. TERMINATE IN INTEGRAL FUSED DISCONNECT, FUSED AT 20A.
9. VAV-2 BY H.C., 208V-3ø, 1.5KW, 4.2A. TERMINATE IN INTEGRAL FUSED DISCONNECT, FUSED AT 15A.
10. VAV-3 BY H.C., 208V-3ø, 2.0KW, 5.6A. TERMINATE IN INTEGRAL FUSED DISCONNECT, FUSED AT 15A.
11. VAV-4 BY H.C., 208V-3ø, 1.5KW, 4.2A. TERMINATE IN INTEGRAL FUSED DISCONNECT, FUSED AT 15A.
12. VAV-5 BY H.C., 208V-3ø, 3.0KW, 8.4A. TERMINATE IN INTEGRAL FUSED DISCONNECT, FUSED AT 15A.
13. VAV-6 BY H.C., 208V-3ø, 2.0KW, 5.6A. TERMINATE IN INTEGRAL FUSED DISCONNECT, FUSED AT 15A.

POWER PLAN NOTES (CONT'D):

14. EF-1 BY H.C., 120V-1ø, .5 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS, EXTEND AND CONNECT TO LIGHT CIRCUIT AS REQUIRED.
15. EF-2 BY H.C., 120V-1ø, .5 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS, EXTEND AND CONNECT TO LIGHT CIRCUIT AS REQUIRED.
16. CT CABINET FOR ELECTRICAL SERVICE, SEE RISER DIAGRAM.
17. SQUARE D 5563 METER IN ENCLOSURE. SEE RISER DIAGRAM.
18. IT FLOOR MOUNTED RACK. PROVIDE RECEPTACLES MOUNTED TO TOP OF RACK. SEE SIGNAL PLAN THIS DWG.
19. BMS PANEL BY H.C., 120V-1ø. PROVIDE RS485 SHIELDED PAIR CABLE TO OWNER ELECTRIC METER WIRED MODBUS IN ADDITION TO THE CAT6 CABLE FROM THE BMS PANEL TO THE IT RACK. VERIFY LOCATION WITH H.C. PRIOR TO ROUGH IN.
20. EXTEND AND CONNECT TO FREEZE PROTECTION LIGHT. SEE LIGHTING PLAN.
21. WH-1 BY P.C., 4500W, 208v-1ø, 21.6A. PROVIDE 30A-2P FDS, FUSED AT 30A.
22. EXTEND AND CONNECT BOTTLE FILL TO OUTLET AS INDICATED.
23. THE CONTRACTOR SHALL PROVIDE AND INSTALL A FLUSH MOUNTED OUTLET BOX IN THE FLOOR. ONE SIDE SHALL HAVE A DUPLEX OUTLET AND THE OTHER SIDE SHALL HAVE THREE (3) HDMI CABLES ROUTED TO THE WALL MOUNTED MONITORS. ALL CABLES AND CONDUCTOS SHALL RUN IN A DIVIDED TROUGH IN THE FLOOR FROM THE OUTLET BOX TO MECH. ROOM 117.
24. THE CONTRACTOR SHALL MOUNT THIS MONITOR RECEPTACLE 60 INCHES ABOVE THE FINISHED FLOOR. PROVIDE AND INSTALL A QUAD BOX WITH A DUPLEX RECEPTACLE ON ONE SIDE AND AN ACCESSABLE HDMI PORT ON THE OTHER.

SIGNAL PLAN NOTES:

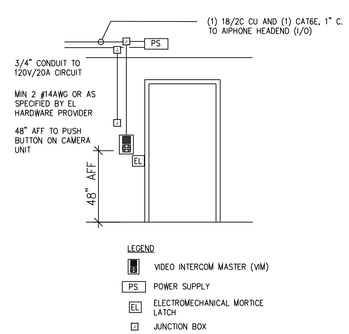
1. IT FLOOR MOUNTED RACK WITH BOTH HORIZONTAL AND VERTICAL WIRE MANAGEMENT. PROVIDE CAT6 CABLE TERMINATIONS IN MULTIPLES OF 48 PORT PATCH PANELS AS NECESSARY.
2. J6/IT STAFF WILL EXTEND AND CONNECT EXISTING FIBER AND CU COMMUNICATIONS CABLE TO RACK AND PROVIDE NECESSARY EQUIPMENT, TESTING, AND TERMINATIONS FOR SUCH WORK. COORDINATE ALL ACTIVITIES WITH IT STAFF PRIOR TO EXECUTION.
3. PROVIDE (2) 4" C FROM RISER POLE (APPROX 135') TO IT CABINET. RUN CONDUIT UP POLE AS POWER, CAP SPARE AT GRADE. PROVIDE (2) 2 1/2" CONDUITS STUBBED THRU WALL USING SWEEPS AND BUSHINGS.
4. BMS PANEL BY H.C., 120V-1ø. PROVIDE RS485 SHIELDED PAIR CABLE TO OWNER ELECTRIC METER WIRED MODBUS IN ADDITION TO CAT6 CABLE FROM BMS PANEL TO IT RACK.
5. FIRE ALARM DEVICE. PROVIDE 4" SQUARE, DEEP BOXES FOR ANNUNCIATORS AND DOUBLE GANG BOX FOR PULL STATIONS. CEILING DETECTORS FURNISHED WITH SQUARE BOXES AT CEILINGS. RUN ALL CONDUIT TO LOCATION OF FIRE PANEL IN ELEC ROOM. PROVIDE SEPARATE EMT CONDUIT PATHS FOR EACH ANNUNCIATION, MANUAL PULL, AND AUTOMATIC.
6. FIRE ALARM AND MNS PANELS.
7. PROVIDE AIPHONE ACCESS CONTROL CAMERA UNIT AND CAT 6 CABLE BACK TO AIPHONE HEADEND MOUNTED HIGH IN IT RACK.
8. ALLOW 25' OF CONDUIT AND CABLE FOR RELOCATION OF UNIT BY GOVERNMENT PRIOR TO ROUGH-IN.



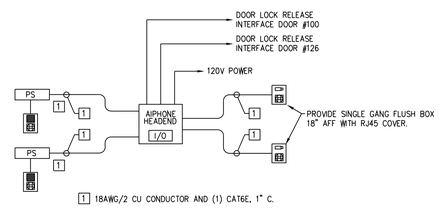
NOTES:

1. THE FIRE ALARM SYSTEM/MNS MUST BE ABLE TO SEND LIVE VOICE COMMANDS AND/OR PRE-RECORDED MESSAGES AND ACTIVATE STROBES WITHOUT SENDING THE FIRE ALARM SYSTEM INTO ALARM AND/OR A TROUBLE CONDITION.
2. THE FIRE ALARM SYSTEM CONTRACTOR MUST COORDINATE COMPATIBILITY OF EQUIPMENT WITH SUMMIT SECURITY SERVICES (570-954-0357, ATTN PETE LEWIS) FOR CO-USE OF AUDIO VISUAL SIGNALING DEVICES BETWEEN FIRE ALARM (FA) SYSTEM AND MASS NOTIFICATION SYSTEM (MNS) PRIOR TO SUBMITTING SHOP DRAWINGS AND MUST HAVE APPROVAL LETTER FROM SUMMIT AS PART OF THE SUBMITTAL. THEY MUST WORK IN CONJUNCTION WITH SUMMIT TO TROUBLE SHOOT SYSTEM, PROGRAMMING, AND SYSTEM TESTING.
3. THE FIRE ALARM SYSTEM AMPLIFIER MUST HAVE A PROGRAMMABLE LOW LINE AUDIO INPUT. THE SYSTEM MUST BE INTERCONNECTED AND COMPATIBLE WITH THE FEDERAL SIGNAL HEAD END AT FORT INDIANTOWN GAP (FTIG). IT MUST BE ABLE TO RECEIVE MESSAGES FROM FTIG WHEN THEY ARE MADE.
4. THE MNS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM AND EMERGENCY COMMUNICATIONS SYSTEM AND SHALL BE INSTALLED AND PROGRAMMED IN ACCORDANCE WITH NFPA 72 CHAPTER 24. THE STROBES SHALL BE CLEAR AND HAVE "ALERT" PRINTED ON THEM AS PER NFPA REQUIREMENTS.
5. PROVIDE (2) 1" SPARE CONDUITS WITH PULL STRINGS BETWEEN ALL MAJOR PIECES OF FA AND MNS EQUIPEMENT (FACP, UVIC, ETC.). THIS SHALL INCLUDE ADDITIONAL FIRE ALARM PANELS THAT MAY BE REQUIRED, I.E. BATTERY ENCLOSURE, NAC EXTENDER, ETC.
THE FIRE ALARM SYSTEM MUST BE PROVIDED WITH MONACO BX TRANCEIVER AND INTEGRATED INTO FTIG MONITORING SYSTEM.

FIRE ALARM / MNS RISER DIAGRAM
NO SCALE



VIDEO INTERCOM DOOR DETAIL
NO SCALE



LEGEND

- VIDEO INTERCOM REMOTE (VIR)
- VIDEO INTERCOM MASTER (VIM)
- PS — POWER SUPPLY, EL
- I/O — INPUT/OUTPUT - AIPHONE HEADEND

NOTES:

1. THIS VIDEO INTERCOM SYSTEM IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR ALL DEVICE LOCATIONS, QUANTITIES, AND DOOR CONTROLS.
2. ALL VIDEO INTERCOM SYSTEM DEVICES SHOWN ON THIS RISER ARE IN THIS CONTRACT. CONTRACTOR SHALL FURNISH AND INSTALL CONDUITS, JUNCTION BOXES, CONTROL AND SIGNAL WIRING AND/OR 120V POWER TO ALL DEVICES IN THE SYSTEM. EL POWER SUPPLIES PROVIDED BY DOOR VENDOR. PROVIDE 12" OF CABLE AT EACH LOCATION AND COIL FOR FUTURE CONNECTION BY OTHERS.
3. EACH POWER SUPPLY REQUIRES A 120V CIRCUIT.
4. COORDINATE WITH SUMMIT SECURITIES FOR ALL ACCESS CONTROL REQUIREMENTS.

AX SERIES VIDEO INTERCOM RISER DIAGRAM
NO SCALE

NO.	DESCRIPTION	DATE

REVISIONS

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

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BLDG 16-153 RENOVATION

FISHER AVE.
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

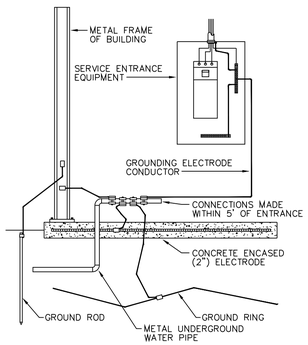
POWER & SIGNAL

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
B. BARGER	15 MAR 2024	E.1.2
CHECKED BY	SCALE	
D. HEALEY	AS NOTED	



TYPICAL GROUNDING DETAIL

NO SCALE

GROUNDING DETAIL NOTES:

1. GROUNDING ELETRODE CONDUCTOR SHALL BE #2/0 COPPER.
2. REFER TO SPECIFICATIONS FOR THE SIZE AND TYPE OF CONDUCTORS TO BE USED FOR ALL BONDING CONDUCTORS, BONDING JUMPERS, AND GROUND RING CONDUCTORS.
3. REFER TO THE SPECIFICATIONS FOR ALL CONNECTORS AND THEIR APPLICATIONS.
4. PROVIDE ALL GROUNDING COUNTERPOISES, GROUND RODS, AND GROUND RINGS AS PER THE SPECIFICATION.
5. PROVIDE GROUNDING ELECTRODE CONDUCTORS FOR ALL GROUNDING ELECTRODES AVAILABLE AS PER NEC 2023.
6. NOT ALL GROUNDING CONNECTIONS MAY APPLY TO THIS BUILDING.

SYMBOLS

NOTE 1

	LIGHT FIXTURE, CEILING
	LIGHT FIXTURE, CEILING EMERGENCY
	SPLIT-WIRED LIGHT FIXTURE
	LIGHT FIXTURE, WALL
S	SINGLE POLE SWITCH, 48" AFF TO TOB, TYPICAL UNO
S_B	SINGLE GANG BOX W/BLANK COVER PLATE
S_2	DOUBLE POLE SWITCH
S_3	THREE-WAY SWITCH
S_4	FOUR-WAY SWITCH
S_D	DIMMER SWITCH
S_{OS}	OCCUPANCY SENSOR, DUAL TECH.
S_{OSD}	OCCUPANCY SENSOR, 0-10V DIMMING.
S_{2OS}	OCCUPANCY SENSOR, DUAL TECH., 2 CIRCUIT
S_{2OSP}	OCCUPANCY SENSOR, DUAL TECH., 2 CIRCUIT, PHOTOCELL
S_{WBT}	ELECTRONIC IN WALL TIMER, 5 PRESETS, NON-ADJUSTABLE
	DUPLEX RECEPTACLE, MOUNT 18" AFF TO COB, TYPICAL UNO. C - MOUNTED ABOVE COUNTER CL - CLOCK HANGER RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	QUADRUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTING RECEPTACLE WP - WEATHERPROOF WHILE IN USE
	ISOLATED GROUND RECEPTACLE
	TELEPHONE OUTLET - ANALOG, 18" AFF TO COB, TYPICAL UNO W - WALL PHONE OUTLET
	DATA OUTLET, 4 PORT, 2 ACTIVE, 2 BLANK
	DATA OUTLET, 4 PORT, 4 ACTIVE
S_{TP}	MANUAL STARTER WITH THERMAL OVERLOAD & PILOT LIGHT
S_M	MANUAL STARTER WITHOUT THERMAL OVERLOAD
	DISCONNECT SWITCH
DC	DOOR CONTROLLER, COORDINATE W/G.C.
TV	CABLE TV OUTLET
	CCTV CAMERA, POE
	WIFI, POE

	CEILING OCC. SENSOR, DUAL TECH., 2 CIRCUIT
	CEILING OCC. SENSOR, DUAL TECH., 2 CIRCUIT, LONG RANGE
	CONTACTOR
	AC MAGNETIC STARTER
	COMBINATION STARTER/DISCONNECT
	MOTOR
J	JUNCTION BOX
P	PHOTOCELL
F	FIRE ALARM PULL STATION
FL	FIRE ALARM FLOW SENSOR
TP	FIRE ALARM TAMPER SWITCH
SD	SMOKE DAMPER
S/F	SMOKE / FIRE DAMPER COMBINATION
F	FIRE ALARM SPEAKER/STROBE
	FIRE ALARM STROBE
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT DETECTOR, COORDINATE LOCATION W/H.C.
	FIRE ALARM EXTERNAL SPEAKER(MNS), WP, 12'-0" AFF
	BOSCH D-9370: SENSOR
	POSITION SENSOR
	ADEMCO VISTA 128
	SEISMIC SENSOR, WALL MOUNT 12" BELOW DECK
	OUTSIDE SIREN
VSA	VAULT SOUND ALARM
MIC	MICROPHONE
KP	KEYPAD, WALL MOUNT 55" AFF.
	CELLULAR ANTENNA
BU	CELLULAR BACK-UP SYSTEM
TC	TIME CLOCK
	LINE VOLTAGE THERMOSTAT
J	JUNCTION BOX
	HOMERUN TO PANEL INDICATED
	EMERGENCY LIGHTING CIRCUIT
	CIRCUIT UNDERGROUND OR UNDERFLOOR PANELBOARD
	EMERGENCY BATTERY PACK
	REMOTE EMERGENCY HEAD
	EXIT SIGN
	CU GROUND BAR, 1/4"x1"x8" MIN.
	CU GROUND BAR, 1/4"x2"x12" MIN.

NOTE:
1. THIS SYMBOL SCHEDULE IS TYPICAL. NOT ALL SYMBOLS MAY BE USED. SYMBOLS MAY BE SHOWN IN MULTIPLE ORIENTATIONS.

ABBREVIATIONS

WITH OR WITHOUT PERIODS

A	AMPERE
AB	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
BOB	BOTTOM OF BOX
C	CONDUIT
CKT	CIRCUIT
COB	CENTER OF BOX
CPT	CONTROL POWER TRAMSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
C/B	CIRCUIT BREAKER
DIM	DIVISION OF INSTALLATION MAINTENANCE
DISC	DISCONNECT
DN	DOWN
DS	DISCONNECT SWITCH
DWG	DRAWING
EBB	ELECTRICAL BASEBOARD
EC	ELECTRICAL CONTRACTOR
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL (KEYPAD)
FACS	FIRE ALARM COMMAND SYSTEM/VOICE EVAC
FU	FUSED
FDR	FEEDER
FDS	FUSED DISCONNECT SWITCH
FT	FEET
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTING
GND	GROUND
HC	HEATING CONTRACTOR
H-O-A	HAND-OFF-AUTO
HP	HORSEPOWER
HTR	HEATER
HUH	HORIZONTAL UNIT HEATER
IG	ISOLATED GROUND
JB	JUNCTION BOX
KW	KILOWATT
LTG	LIGHTING
MC	MECHANICAL CONTRACTOR
MTD	MOUNTED
MTR	MOTOR
MLO	MAIN LUG ONLY
Ø	PHASE
P	POLE
PC	PLUMBING CONTRACTOR
PNL	PANELBOARD
PWR	POWER
PH	PHASE
RGS	RIGID GALVANIZED STEEL CONDUIT
SW	SWITCH
TBB	TELEPHONE BACKBOARD
TOB	TOP OF BOX
TV	TELEVISION
UNO	UNLESS NOTED OTHERWISE
V	VOLT
W	WATT OR WIRE
W/	WITH
W/G	WITH GROUND
W/O	WITH OUT
WP	WEATHER-PROOF
WPIU	WEATHER-PROOF WHILE IN USE
XFMR	TRANSFORMER

GENERAL NOTES FOR ALL ELECTRICAL PLANS

1. VERIFY LOCATION OF ALL EQUIPMENT TO BE CONNECTED PRIOR TO ROUGH-IN.
2. ALL WORK MUST MEET UCC REQUIREMENTS. ALL WORK MUST MEET NEC, 2023.
3. THE ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE ALL MATERIALS AND WORK FOR A COMPLETE AND OPERATIONAL SYSTEM. THE E.C. IS RESPONSIBLE FOR ALL "WAYS AND MEANS OF CONSTRUCTION" NOT SPECIFICALLY DETAILED, I.E. JUNCTION BOXES, ETC.
4. ALL ELECTRICAL EQUIPMENT AND/OR CONNECTIONS ARE BY E.C. UNLESS NOTED OTHERWISE. THE E.C. SHALL BECOME FAMILIAR WITH ALL OF THE CONTRACT DOCUMENTS TO VERIFY ALL ELECTRICAL REQUIREMENTS REGARDING EXISTING CONDITIONS AND INTENDED FINAL RESULT.
5. ALL ELECTRICAL PENETRATIONS THROUGH MECHANICAL ROOMS, CORRIDORS, STAIRWAYS AND FROM FLOOR TO FLOOR SHALL BE 1 HOUR RATED AND SHALL BE BY MANUFACTURER'S DETAILS. THE DETAILS SHALL MEET OR EXCEED RATINGS OF CONSTRUCTION BEING PENETRATED. PENETRATION DETAILS SHALL BE EXACTLY AS TESTED BY AN APPROVED TESTING LABORATORY OR AGENCY AND SHALL INCLUDE THEIR SYSTEM NUMBERS ON SUBMITTALS.
6. WHEN THE PHRASE "EXTEND AND CONNECT" IS USED IN ANY VARIATION, IT SHALL MEAN TO PROVIDE CONDUIT AND WIRE AS INDICATED FOR THE ASSOCIATED CIRCUIT, TO THE POINT INDICATED EITHER IN THE NOTE OR ON THE DRAWING. PROVIDE ALL TERMINATIONS, BOXES, CONDUIT, WIRE, CONNECTORS, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.
7. THE DRAWINGS ARE NOT INDICATIVE OF SOME MINOR MODIFICATIONS NECESSARY TO PERFORM THE SCOPE OF WORK, I.E. THE MOUNTING OF SUPPORTS, BRACKETS, AND THE LIKE. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND LABOR TO PERFORM THE SCOPE OF WORK SUCH THAT THE END RESULT IS A COMPLETE AND OPERATIONAL SYSTEM, AS APPROVED BY DMVA.
8. DATA OUTLETS SHOWN ON THESE PLANS SHALL CONSIST OF SINGLE OUTLET BOX, (2 OR 4 BASED ON SYMBOL) CAT6 CABLES IN 1" CONDUIT STUB UP TO ABOVE NEAREST ACCESSIBLE CEILING WITH BUSHING. ROUTE CAT6 CABLE TO IT CLOSET AND EXTEND CABLES TO PATCH PANEL IN DATA RACK. PROVIDE 4 PORT COVER AND ALL TERMINATIONS.
9. THE CONTRACTOR (EC) IS RESPONSIBLE TO COORDINATE WITH OTHER TRADES OF DIM FOR ANY RENOVATIONS AND/OR MODIFICATIONS REQUIRING THEIR ATTENTION.
10. NEUTRAL SHARING IS NOT ACCEPTABLE. ALL BRANCH CIRCUITS AND FEEDERS SHALL INCLUDE A DEDICATED NEUTRAL.
11. PROVIDE A 3 WIRE FEED TO EVERY DEVICE (MINIMUM), TO INCLUDE SWITCH BOXES. THIS SHALL INCLUDE A HOT, NEUTRAL, AND GROUND.
12. A HOMERUN AS INDICATED SHALL MEAN A DEDICATED BRANCH CIRCUIT, TO INCLUDE CONDUIT, WIRE AND BOXES, ETC., TO THE PANEL INDICATED. ANY ALTERATIONS REGARDING SHARING CONDUIT MUST BE APPROVED PRIOR TO INSTALLATION.

GENERAL NOTE FOR PANELBOARD SCHEDULES

ALL WRING FOR 120 VOLTS 20 AMP BRANCH CIRCUITS INCLUDING GROUND(ING) CONDUCTORS SHALL BE SIZED AS FOLLOWS:

HOME RUN LENGTH	WIRE SIZE
0 - 75'	#12
75 - 150'	#10
OVER 150'	#8

CIRCUIT LENGTH	WIRE SIZE
0 - 100'	#12
OVER 100'	#10

IN ACCORDANCE WITH THE ABOVE WHERE THE SIZE OF BRANCH CIRCUIT CONDUCTOR IS INCREASED BEYOND THE MINIMUM REQUIRED BY THE N.E.C. FOR THE BRANCH CIRCUIT RATING, IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE TERMINATION PROVISIONS OF ALL EQUIPMENT CONNECTED TO SUCH CIRCUITS ARE LISTED AS SUITABLE FOR THE CONDUCTOR SIZES INVOLVED.

THE LENGTH OF THE TRAVELERS BETWEEN THREE-WAY AND FOUR-WAY SWITCHES, ETC. SHALL BE INCLUDED WHEN FIGURING HOME RUN AND CIRCUIT LENGTH.

LIGHTING FIXTURE SCHEDULE

I.D.	DESCRIPTION	MANUFACTURER BASIS OF DESIGN	ALTERNATE	ALTERNATE	CAT. NO.	LAMPS	MTG.	WATT	REMARKS
A	2'x4' LED ZERO PLENUM	COLUMBIA	LITHONIA	COOPER	LZPT24-40HLG-LSRS-EDU	5900 L LED	RECESSED	57W	
A1	2'x4' LED ZERO PLENUM	COLUMBIA	LITHONIA	COOPER	LZPT24-40HLG-LSRS-EDU-ELL14	5900 L LED	RECESSED	57W	NOTE 1,7
B	2'x4' LED ZERO PLENUM	COLUMBIA	LITHONIA	COOPER	LZPT24-40VWG-LSRS-EDU	3500 L LED	RECESSED	33W	
B1	2'x4' LED ZERO PLENUM	COLUMBIA	LITHONIA	COOPER	LZPT24-40VWG-LSRS-EDU-ELL14	3500 L LED	RECESSED	33W	NOTE 1
B2	2'x2' LED ZERO PLENUM	COLUMBIA	LITHONIA	COOPER	LZPT22-40VWG-LSRS-EDU	2000 L LED	RECESSED	18W	NOTE 7
C	4' ENCLOSED LED	COLUMBIA	LITHONIA	COOPER	LXEM4-40ML-RFA-ESDU/XEHC	4550 L LED	CHAIN	42W	
C1	4' ENCLOSED LED	COLUMBIA	LITHONIA	COOPER	LXEM4-40ML-RFA-ESDU-ELL14/XEHC	4550 L LED	CHAIN	42W	NOTE 1
C2	4' ENCLOSED LED	COLUMBIA	LITHONIA	COOPER	LXEM4-40ML-RFA-EDU/XE45MB	4550 L LED	SURFACE	39W	NOTE 1,7
C3	4' ENCLOSED LED	COLUMBIA	LITHONIA	COOPER	LXEM4-40ML-RFA-EDU-ELL14/XE45MB	4550 L LED	SURFACE	39W	NOTE 1,7
D	2' WALLMOUNT LED	COLUMBIA	LITHONIA	COOPER	CWM2-40LWSM-FRWA-EU	2430 L LED	SURFACE	21W	NOTE 7
D1	2' WALLMOUNT LED	COLUMBIA	LITHONIA	COOPER	CWM2-40LWSM-FRWA-EU-ELL14	2430 L LED	SURFACE	21W	NOTE 1,7
E	CANOPY LIGHT	BEACON	LITHONIA	COOPER	SRT1-35-4K8-SQW-UNV-DB-WG-SCP-8F/SCP REMOTE	4550 L LED	SURFACE	35W	NOTE 7
F	SURFACE MOUNT LED, WL	FAIL-SAFE	LITHONIA	COOPER	TRR11-LD4-25W-40-CL-WH-UNV-EDC1-CSTG	2333 L LED	SURFACE	25W	
F1	SURFACE MOUNT LED, WL	FAIL-SAFE	LITHONIA	COOPER	TRR11-LD4-15W-40-CL-WH-UNV-EDC1-EL5W/CSTG	1500 L LED	SURFACE	15W	NOTE 1
G	LED WALL BRACKET	LUMARK	LITHONIA	DUAL LITE	AXCS3ARL-PC	(1) 27W/3700L	SURFACE	31W	
G1	LED NORM/EM WALL BRACKET	LUMARK	LITHONIA	DUAL LITE	AXCS3ARL-PC-CBP	(1) 27W/3700L	SURFACE	31W	NOTE 1,2,3
H	STROBE LIGHT	LARSON ELECTR	LITHONIA	COOPER	SLEDB-110V-BLUE	(1) LED ARRAY	SURFACE	265W	NOTE 6
H1	STROBE LIGHT	LARSON ELECTR	LITHONIA	COOPER	SLEDB-110V-RED	(1) LED ARRAY	SURFACE	265W	NOTE 6,7
J	2'x4' LED ZERO PLENUM	COLUMBIA	LITHONIA	COOPER	LZPT24-40LWSM-LSRS-EDU	4500 L LED	RECESSED	43W	NOTE 7
J1	2'x4' LED ZERO PLENUM	COLUMBIA	LITHONIA	COOPER	LZPT24-40LWSM-LSRS-EDU-ELL14	4500 L LED	RECESSED	43W	NOTE 1,7
K	LED STAIRWELL	COLUMBIA	LITHONIA	COOPER	ESL4-40VW-FAW-EDU-ELL14-NXOS	3320 L LED	SURFACE	27W	NOTE 1,7
	LED EXIT	DUAL LITE	SURELITES	LITHONIA	EVEURWE1	LED	SURFACE	2.1W	NOTE 1
	EMERGENCY LIGHTING UNIT	LITHONIA	SURELITES	DUALLITE	ELM6L-UVOLT-LTP-SDRT-BAA	LED	SURFACE	13W	NOTE 4

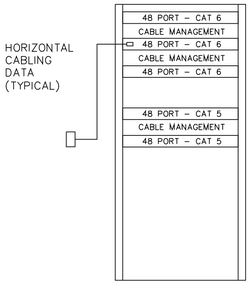
NOTE:
1. PROVIDE EMERGENCY BATTERY PACK. WIRE TO HOT LEG OF LOCAL LIGHTING CIRCUIT IN THE AREA IN WHICH IT SERVES. THE AREA MUST BE ON THE SAME CIRCUIT.
2. UNIT MUST OPERATE VIA PHOTOCONTROL AND ACT AS EMERGENCY LIGHT
3. UNIT MUST BE SUITABLE FOR EMERGENCY LIGHTING AT EGRESS DOORS.
4. WIRE TO HOT LEG OF LOCAL LIGHTING CIRCUIT IN THE AREA IN WHICH IT SERVES. THE AREA SERVED MUST BE ON THE SAME CIRCUIT
5. WHEN APPLICABLE, MOUNT ABOVE CEILING.
6. VERIFY MOUNTING REQUIREMENT WITH MANUFACTURER AND PROVIDE CLEANEST POSSIBLE LOOK.
7. NOT USED THIS PROJECT

THE CONTRACTOR SHALL PROVIDE A PATCH CORD FOR EACH PORT IN PATCH PANELS

A 1 1 01

THE 1ST CHARACTER WILL IDENTIFY THE CLOSET	THE 2ND CHARACTER WILL IDENTIFY THE RACK	THE 3RD CHARACTER WILL IDENTIFY THE PATCH PANEL	THE 4TH AND 5TH CHARACTERS WILL IDENTIFY THE PORT NUMBER

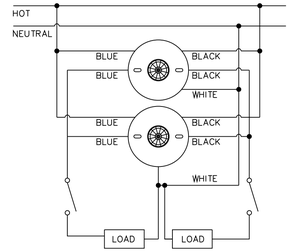
LABELING FOR TELECOM/DATA DROPS



LOCKABLE DATA ENCLOSURE

TELECOM/DATA RACK DETAIL

NO SCALE



TYP. LINE VOLTAGE SENSOR DETAIL

NO SCALE

NO.	DESCRIPTION	DATE

REVISIONS

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO. 42230136

BLDG 16-153 RENOVATION

FISHER AVE.
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

SCHEDULES & DETAILS

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:

0 ——— 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
B. BARGER	15 MAR 2024	E.2.1
CHECKED BY	SCALE	
D. HEALEY	AS NOTED	

NOTE	SPACE (1.5")	MAIN C/B: 600A MCB (ELECTRONIC TRIP) FRAME: 600A — PANEL: 'MDP' – 22KAIC NOTE 1 VOLTAGE: 208/120–3ø–4W — CB SPACE: 72 IN MOUNTING: WALL–42"W										SPACE (1.5")	NOTE
		EQUIPMENT	BREAKER	FEEDER	øA AMPS		øB AMPS		øC AMPS		FEEDER	BREAKER	EQUIPMENT		
	1				70	87								2	
	3	PANEL 'P1'	150A–3P	RISER			73	83			RISER	150A–3P	PANEL 'P3'	4	
	5								65	75				6	
	7				60	78								8	
	9	PANEL 'P2'	100A–2P	RISER			60	78			3#1, 1#8 GND, 1 1/4" C.	90A–3P	AHU–1	10	2
	11								0	78				12	
	13	SPARE	100A–3P		0	28								14	
	15						0	28			3#6, 1#10 GND, 3/4" C.	45A–3P	CU–1	16	2
	17	BUSSED SPACE							0	28				18	
	19	BUSSED SPACE			0	0							BUSSED SPACE	20	
	21	BUSSED SPACE					0	0					BUSSED SPACE	22	
	23	BUSSED SPACE							0	0			BUSSED SPACE	24	
	25	BUSSED SPACE			0	0							BUSSED SPACE	26	
	27	BUSSED SPACE					0	0					BUSSED SPACE	28	
	29	BUSSED SPACE							0	0			BUSSED SPACE	30	
	31	BUSSED SPACE			0	0								32	
	33	BUSSED SPACE					0	0						34	
	35	BUSSED SPACE							0	0				36	
	37	BUSSED SPACE			0	0								38	
	39	BUSSED SPACE					0	0			-----	-----	SPD–240 KA	40	
	41	BUSSED SPACE							0	0				42	
	43	BUSSED SPACE			0	0								44	
	45	BUSSED SPACE					0	0						46	
	47	BUSSED SPACE							0	0				48	
NOTES:		TOTAL CONNECTED AMPS/LEG			323		322		246						

1. THIS AIC RATING BASED ON XFMR WITH 4% Z.
2. PROVIDE GFCI BREAKER FOR PROTECTION OF EQUIPMENT.

⟨XX⟩FEEDER SIZE SCHEDULE

4 WIRE FEEDERS WITH GROUND		AMP	WIRE SIZE AWG. OR MCM		AMP	3 WIRE FEEDERS WITH GROUND	
IDENT.	CONDUIT		PHASE/NTRL. –GND.			CONDUIT	IDENT.
A	3/4"	20	12	12	20	3/4"	A1
B	3/4"	30	10	10	30	3/4"	B1
C	1"	40	8	10	40	3/4"	C1
D	1 1/4"	55	6	10	55	1"	D1
E	1 1/4"	70	4	8	70	1 1/4"	E1
F	1 1/4"	95	2	8	95	1 1/4"	F1
G	1 1/2"	110	1	8	110	1 1/2"	G1
H	2"	150	1/0	6	150	1 1/2"	H1
J	2"	175	2/0	6	175	2"	J1
K	2"	200	3/0	6	200	2"	K1
L	2–1/2"	225	4/0	4	225	2"	L1
M	2–1/2"	250	250	4	250	2 1/2"	M1
N	3"	300	350	4	300	2 1/2"	N1
O	3 1/2"	350	500	2	350	3"	O1
P	4"	400	600	2	400	3 1/2"	P1
Q	(2) 2 1/2"	450	2–4/0 *	2	450	(2) 2"	Q1
R	(2) 2 1/2"	500	2–250 *	2	500	(2) 2 1/2"	R1
S	(2) 3"	550	2–300 *	1	550	(2) 2 1/2"	S1
T	(2) 3"	600	2–350 *	1	600	(2) 3"	T1
U	(2) 4"	800	2–600 *	1/0	800	(2) 3 1/2"	U1
V	(3) 3"	1000	3–400 *	2/0	1000	(3) 3"	V1
W	(3) 4"	1200	3–600 *	3/0	1200	(3) 3 1/2"	W1

NOTES:

1. CONDUIT SIZES ARE BASED, IN GENERAL, ON TYPE TW OR THW INSULATED WIRE.
2. INDICATES SIZE AND NUMBER OF CONDUCTORS PER PHASE (AND NEUTRAL WHERE APPLICABLE) IN FEEDERS.
3. WHERE MULTIPLE SETS OF CONDUCTORS ARE SPECIFIED FOR A FEEDER, EACH SET SHALL BE INSTALLED IN A CONDUIT AND ONE CONDUCTOR IN EACH SET SHALL BE CONNECTED TO EACH PHASE TERMINAL (AND NEUTRAL TERMINAL WHERE APPLICABLE).
4. WHERE MULTIPLE SETS OF CONDUCTORS ARE SPECIFIED FOR A FEEDER, ALL CONDUCTORS SHALL BE OF IDENTICAL LENGTH AND OF SAME MANUFACTURER. CONDUIT RUNS SHALL BE IDENTICAL (WITHIN PRACTICAL LIMITS).

* INDICATED GROUND FOR EACH CONDUIT.

NOTE	CIRCUIT	MAIN C/B: 225A MLO FRAME: 225A NOMINAL — NEW PANEL: 'P1' 22K AIC VOLTAGE: 208/120V–3ø–4W — POLES: 42 MOUNTING: SURFACE										CIRCUIT	NOTE
		EQUIPMENT	BREAKER	FEEDER	øA AMPS		øB AMPS		øC AMPS		FEEDER	BREAKER	EQUIPMENT		
	1				12.5	4.2								2	
	3	VAV–1	20A–3P	3#12 W/G			12.5	4.2			3#12 W/G	15A–3P	VAV–2	4	
	5								12.5	4.2				6	
	7				5.6	4.2								8	
	9	VAV–3	15A–3P	3#12 W/G			5.6	4.2			3#12 W/G	15A–3P	VAV–4	10	
	11								5.6	4.2				12	
	13				8.3	5.6								14	
	15	VAV–5	15A–3P	3#12 W/G			8.3	5.6			3#12 W/G	15A–3P	VAV–6	16	
	17								8.3	5.6				18	
	19	RECEP–CONVENIENCE	20A–1P	2#12 W/G	6.0	12.5					2#12 W/G	20A–1P	EWH–2	20	
1	21	CU–2	25A–2P	3#10 W/G			14.7	12.5			2#12 W/G	20A–1P	EWH–3	22	
	23								14.7	5.0	2#12 W/G	15A–1P	DUCT FURNACE	24	
	25	RECEP–IT RACK	20A–1P	2#12 W/G	3.0	1.6					2#12 W/G	15A–1P	UV LIGHT	26	
	27	RECEP–IT RACK	20A–1P	2#12 W/G			3.0	2.4			2#12 W/G	20A–1P	LTG. – IT/MECH/ELEC	28	
2	29	FA/MNS	20A–1P	2#12 W/G					5.0	1.5	2#12 W/G	20A–1P	FLOOR RECPT. ROOM 114	30	
	31	ATTIC LTG/POWER	20A–1P	2#12 W/G	6.3	0						20A–1P	SPARE	32	
	33	SPARE	20A–1P				0	0				20A–1P	SPARE	34	
	35	SPARE	20A–1P						0	4.5	2#12 W/G	20A–1P	MONITOR RECPTS. RM 114	36	
	37	BUSSED SPACE			0	0							BUSSED SPACE	38	
	39	BUSSED SPACE					0	0					BUSSED SPACE	40	
	41	BUSSED SPACE							0	0			BUSSED SPACE	42	
NOTES:		TOTAL CONNECTED AMPS/LEG			69.8		73.0		71.1						

1. PROVIDE GFCI BREAKER FOR PROTECTION OF EQUIPMENT
2. PROVIDE HANDLE LOCK ON DEVICE

NOTE	CIRCUIT	MAIN C/B: 225A MLO FRAME: 225A NOMINAL — NEW PANEL: 'P3' 10K AIC NOTE 1 VOLTAGE: 208/120V–3ø–4W — POLES: 42 MOUNTING: FLUSH										CIRCUIT	NOTE
		EQUIPMENT	BREAKER	FEEDER	øA AMPS		øB AMPS		øC AMPS		FEEDER	BREAKER	EQUIPMENT		
	1	LTG. – COMMON/VEST/CORR	20A–1P	2#12 W/G	2.0	10.0					2#12 W/G	20A–1P	RECEP–BREAK 109 COUNTER	2	
2	3	LTG. – BREAK/REST/SHOW	20A–1P	2#12 W/G			1.7	10.0			2#12 W/G	20A–1P	RECEP–BREAK 109 COUNTER	4	
	5	LTG. – OFF 101–104	20A–1P	2#12 W/G					3.8	10.0	2#12 W/G	20A–1P	RECEP–BREAK 109 REFRIG	6	
	7	LTG. – OFF 111,112,115/CLO	20A–1P	2#12 W/G	4.6	0						20A–1P	SPARE	8	
	9	LTG. – EXTERIOR	20A–1P	2#12 W/G			2.2	9.0			2#12 W/G	20A–1P	RECEP–OFF 111	10	
	11	RECEP–OFF 103/104	20A–1P	2#12 W/G					12.0	6.0	2#12 W/G	20A–1P	RECEP–OFF 112	12	
	13	RECEP–OFF 101/102	20A–1P	2#12 W/G	12.0	9.0					2#12 W/G	20A–1P	RECEP–OFF 115	14	
	15	SPARE	20A–1P				0	10.0			2#12 W/G	20A–1P	RECEP–PRINTER	16	
	17	RECEP–FEMALE 105	20A–1P	2#12 W/G					3.0	10.0	2#12 W/G	20A–1P	RECEP–COPIER	18	
	19	RECEP–MALE 106	20A–1P	2#12 W/G	3.0	21.6					2#10 W/G	30A–2P	WH–1	20	
	21	RECEP–CLO 107/SHOW 108	20A–1P	2#12 W/G			3.0	21.6						22	2
	23	RECEP–STORAGE 110	20A–1P	2#12 W/G					3.0	12.5	2#12 W/G	20A–1P	EWH–1	24	
	25	EWH–4	20A–1P	2#12 W/G	12.5	12.5					2#12 W/G	20A–1P	EWH–6	26	
	27	EWH–5	20A–1P	2#12 W/G			12.5	12.5			2#12 W/G	20A–1P	EWH–7	28	
	29	RECEP–COMMON 114	20A–1P	2#12 W/G					7.5	7.5	2#12 W/G	20A–1P	RECEP–COMM 114/CORR 116	30	
	31	SPARE	20A–1P		0	0						20A–1P	SPARE	32	
	33	SPARE	20A–1P				0	0				20A–1P	SPARE	34	
	35	SPARE	20A–1P						0	0		20A–1P	SPARE	36	
	37	BUSSED SPACE			0	0							BUSSED SPACE	38	
	39	BUSSED SPACE					0	0					BUSSED SPACE	40	
	41	BUSSED SPACE							0	0			BUSSED SPACE	42	
NOTES:		TOTAL CONNECTED AMPS/LEG			87.2		82.5		75.3						

1. PROVIDE (1) 1 1/2" AND (3) 1" CONDUITS TO ABOVE CEILING AS SPARE
2. PROVIDE GFCI BREAKER FOR PROTECTION OF EQUIPMENT

GENERAL NOTE FOR PANELBOARD SCHEDULES

ALL WIRING FOR 120 VOLTS 20 AMP BRANCH CIRCUITS INCLUDING GROUND(ING) CONDUCTORS SHALL BE SIZED AS FOLLOWS:

HOME RUN LENGTH	WIRE SIZE
0 – 75'	#12
75 – 150'	#10
OVER 150'	#8

CIRCUIT LENGTH	WIRE SIZE
0 – 100'	#12
OVER 100'	#10

IN ACCORDANCE WITH THE ABOVE WHERE THE SIZE OF BRANCH CIRCUIT CONDUCTOR IS INCREASED BEYOND THE MINIMUM REQUIRED BY THE N.E.C. FOR THE BRANCH CIRCUIT RATING, IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE TERMINATION PROVISIONS OF ALL EQUIPMENT CONNECTED TO SUCH CIRCUITS ARE LISTED AS SUITABLE FOR THE CONDUCTOR SIZES INVOLVED.

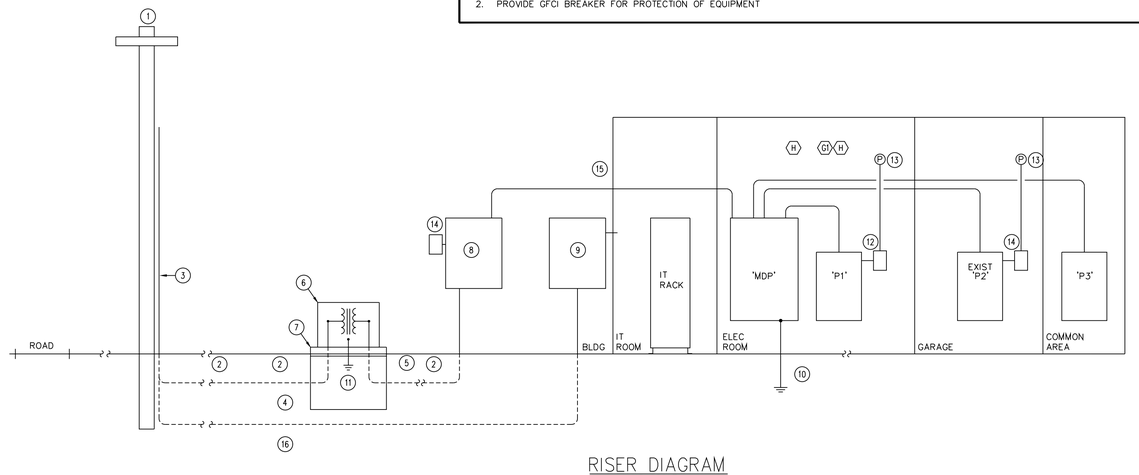
THE LENGTH OF THE TRAVELERS BETWEEN THREE–WAY AND FOUR–WAY SWITCHES, ETC. SHALL BE INCLUDED WHEN FIGURING HOME RUN AND CIRCUIT LENGTH.

RISER DIAGRAM PLAN NOTES

1. EXISTING POLE SOUTH OF A STREET.
2. APPROX 125' FROM POLE TO TRANSFORMER FOUNDATION. APPROX 125' FROM TRANSFORMER FOUNDATION TO SERVICE ENTRANCE. SEE GENERAL (.1) SITE PLAN FOR LOCATION OF POLE AND TRANSFORMER FOUNDATION.
3. THE E.C. SHALL PROVIDE 4" RIGID STEEL CONDUIT UP THE FIRST TEN FEET UP POLE AND THEN TRANSITION TO PVC FOR THE REMAINING DISTANCE. COORDINATE WITH SRM PRIOR TO ROUGH–IN. PROVIDE UNISTRUT MOUNTS OFSET 6" FROM POLE FOR THE ENTIRE LENGTH OF CONDUIT. THE UNISTRUT SHALL BE MOUNTED USING ALLTHREAD CONNECTION THROUGH ENTIRE POLE. SEE POLE DETAIL THIS DRAWING.
4. PROVIDE (2) 4" CONDUITS, 1 ACTIVE AND 1 SPARE. CAP SPARE CONDUIT 12" AFG AT POLE END. ALL CONDUITS SHALL BE SCH 40 PVC AND TRANSITIONED TO RGS PRIOR TO THE LARGE SWEEP RGS ELBOWS AT UP SWEEP AND TERMINATED AS INDICATED. ACTIVE CONDUIT SHALL BE PROVIDED WITH (3) #2, 15KV CU CONDUCTORS, SEE POLE DETAIL THIS DRAWING. PROVIDE ALL TERMINATIONS AT TRANSFORMER PRIMARY UTILIZING LOAD BREAK ELBOWS AS PER SPECIFICATION.
5. PROVIDE (4) 4" CONDUITS, 2 ACTIVE AND 2 SPARE. CONDUITS SHALL BE SCH 40 PVC AND TRANSITIONED TO RGS PRIOR TO THE LARGE SWEEP RGS UP SWEEP ELBOWS AND TERMINATED AT CT CABINET. ACTIVE CONDUITS SHALL BE PROVIDED WITH (1) SET OF 4–350 KCMIL CU CONDUCTORS (EACH).
6. 225 KVA TRANSFORMER, OIL FILLED, LOOP FEED, DEAD FRONT, BAYONET FUSED, 4 POSITION TBOR SWITCHED PROVIDED BY E.C. SEE SPECIFICATIONS. PROVIDE ALL PRIMARY AND SECONDARY TERMINATIONS AND TESTING, TO INCLUDE HIPOT TESTING.
7. 7'x7'x5' PRECAST TRANSFORMER FOUNDATION AS PER PPL SPECIFICATION PROVIDED BY E.C. PROVIDE EXTERIOR WATER PROOFING AND 6" 2B GRAVEL BEDDING.
8. PROVIDE 4'x4'x1' NEMA 3R CT CABINET WITH LOCKABLE, HINGED DOORS. PROVIDE 600:5 SPLIT CORE CT'S. WIRE CT'S TO SMART METER IN ADJACENT WP ENCLOSURE VIA CONTROL CABLE AND/OR CONDUCTORS RECOMMENDED BY METER MANUFACTURER IN A 1 1/2" RGS CONDUIT.
9. PROVIDE 4'x4'x1' NEMA 3R CT CABINET WITH LOCKABLE, HINGED DOORS FOR COMMUNICATION. PROVIDE MULE TAPE IN EACH CONDUIT.
10. 2/0 GROUNDING ELECTRODE CONDUCTOR. PROVIDE BONDING JUMPER TO BLDG. STEEL, WATER PIPE, ACROSS WATER METER, ANY CONCRETE ENCASED ELECTRODES (INCLUDING REBAR IN FLOOR AND FOUNDATION AND/OR BLOCK WALLS), AND GROUND COUNTERPOISE CONSISTING OF AT LEAST (3) 5/8" COPPER CLAD STEEL GROUND RODS OF 8' IN LENGTH, DRIVEN AT LEAST ONE ROD LENGTH APART AND INTERCONNECTED WITH 4/0 BARE COPPER EXOTHERMICALLY WELDED. THESE GROUNDING REQUIREMENTS ARE NOT ALL INCLUSIVE. ALL GROUNDING SHALL BE AS PER NEC WHETHER MENTIONED SPECIFICALLY OR NOT. SEE GROUNDING DETAIL.
11. PROVIDE A 4/0 BARE COPPER CONDUCTOR COUNTERPOISE AROUND TRANSFORMER FOUNDATION USING 5/8"x8' COPPER CLAD STEEL GROUND ROD AT EACH CORNER EXOTHERMICALLY WELDED TO CONDUCTOR. RUN INTO TRANSFORMER FOUNDATION AND GROUND TRANSFORMER AS REQUIRED BY CODE. INTERCONNECT WITH GROUND COUNTERPOISE WITH EXOTHERMICALLY WELDED 4/0 BARE COPPER.
12. PROVIDE 2 CHANNEL DIGITAL TIME SWITCH (ASTRONOMIC), WIRED FOR PHOTOCELL ON/TIMECLOCK OFF OPERATION.
13. PHOTOCELL MOUNTED HIGH ON BUILDING.
14. PROVIDE SQUARE D 5563 SMART METER (W/DISPLAY, NO SUBSTITUTIONS) IN POLYMER NEMA 3R ENCLOSURE AND SWING ALUMINUM MOUNTING PLATE. THE ENCLOSURE SHALL BE PROVIDED WITH CLEAR FRONT WINDOW FOR READINGS WITHOUT OPENING ENCLOSURE.
15. PROVIDE (2) SETS OF 4–350 KCMIL CU THHN, 3" CONDUIT. CONDUIT SHALL BE RGS ON EXTERIOR AND CAN TRANSITION TO EMT IN INTERIOR OF BLDG.
16. PROVIDE (2) 4" CONDUITS, 1 ACTIVE AND 1 SPARE. CAP SPARE CONDUIT 12" AFG AT POLE END. ALL CONDUITS SHALL BE SCH 40 PVC AND TRANSITIONED TO RGS PRIOR TO THE LARGE SWEEP RGS ELBOWS AT UP SWEEP AND TERMINATED AS INDICATED.

RISER DIAGRAM GENERAL NOTES

1. ALL CONDUCTORS MUST HAVE A MEGGER/HI–POT TEST PERFORMED BY THE CONTRACTOR PRIOR TO CONNECTION. COORDINATE WITH DIM FOR WITNESS.
2. THE CONTRACTOR MUST OBTAIN A DIGGING PERMIT FROM DIM IN ADDITION TO ANY PA ONECALL REQUIREMENTS AT LEAST ONE WEEK IN ADVANCE OF ANY EXCAVATION.
3. ALL UNDERGROUND TERMINATIONS MUST BE APPROVED BY DIM PRIOR TO ANY BACKFILLING WORK.
4. ALL UNDERGROUND CONDUIT SHALL BE PVC (TO INCLUDE COMMUNICATIONS) EXCEPT ALL ELBOWS SHALL BE WIDE SWEEP RGS CONDUIT. IF THE CONDUIT REMAINS UNDERGROUND LATERALLY, IT CAN TRANSITION BACK TO PVC. HOWEVER, IF THE SWEEP IS RISING, IT SHALL REMAIN RGS UNTIL TERMINATION INTO CABINETS OR UP POLE AS DIRECTED.
5. ALL WORK THIS PLAN SHALL BE BY E.C. UNO. THE E.C. IS RESPONSIBLE FOR ALL TRENCHING, BACKFILLING, TAMPING, AND RESTORING SURFACE TO ROUGH GRADE. THE G.C. IS RESPONSIBLE FOR FINAL GRADE, SEED, BLACKTOP REPAIR, ETC. THE E.C. MUST FOLLOW GENERAL SPECIFICATIONS FOR FILLING TRENCHES AND TAMPING.
6. THE E.C. SHALL REFER TO GENERAL SITE PLAN AND DETAILS FOR TRENCH WORK AND ASSOCIATED REQUIREMENTS. THE E.C. SHALL ALSO PROVIDE A #12 GREEN THHN/THWN CONDUCTOR 12" BELOW FINISHED GRADE AND DAYLIGHT AT EACH END FOR TRACING PURPOSES.



RISER DIAGRAM
NO SCALE

NO.	DESCRIPTION	DATE
	REVISIONS	

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERANS' AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO. 42230136

BLDG 16-153 RENOVATION

FISHER AVE.
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

RISER DIAGRAM

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
B. BARGER	15 MAR 2024	E.3.1
CHECKED BY	SCALE	
D. HEALEY	AS NOTED	