

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES

HARRISBURG, PENNSYLVANIA

JOSH SHAPIRO, Governor REGINALD B. MCNEIL II, Secretary of General Services

PROJECT NO. D.G.S. C-0503-0026 PHASE 1
NORTH CENTRAL STU - HVAC UPGRADES
DANVILLE STATE HOSPITAL - NCSTU REED AND GREEN BUILDINGS

DANVILLE, MONTOUR COUNTY, PENNSYLVANIA

PROFESSIONAL

Martin Rogers Engineering Consultants
185 NORTH PENNSYLVANIA AVENUE
WILKES-BARRE, PENNSYLVANIA
Tel: 570-826-1000

ARCHITECT

Krug Resources Group
318 Parke Hollow Lane
WEST CHESTER, PENNSYLVANIA

COST ESTIMATING CONSULTANT

Trophy Point
BLASDELL, NEW YORK
PITTSBURGH, PENNSYLVANIA
NEW YORK, NEW YORK

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COMMON TO ALL CONTRACTS

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CP-2 GREEN BUILDING FIRST FLOOR - CODE PLAN
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CP-4 REED BUILDING BASEMENT - CODE PLAN

GENERAL CONSTRUCTION CONTRACT (1)
CONTRACT No. DGS C-0503-0026 PHASE 1

ARCHITECTURAL DWGS.

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CONTRACT No. DGS C-0503-0026 PHASE 1

HVAC DWGS.

H-1 LEGEND AND NOTES
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H-3 FIRST FLOOR PLAN - GREEN BUILDING - DEMOLITION
H-4 SECOND FLOOR PLAN - GREEN BUILDING - DEMOLITION
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H-12 SCHEDULES
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CONTRACT No. DGS C-0503-0026 PHASE 1

PLUMBING DWGS.

P-1 LEGEND AND NOTES
P-2 BASEMENT PLAN - GREEN BUILDING - PLUMBING
P-3 BASEMENT PLAN - REED BUILDING - PLUMBING
P-4 FIRST AND SECOND FLOOR PLANS - GREEN BUILDING - PLUMBING DEMOLITION
P-5 FIRST AND SECOND FLOOR PLANS - GREEN BUILDING - A/C CONDENSATE PIPING

FIRE PROTECTION DWGS.

F-1 LEGEND AND NOTES
F-2 BASEMENT PLAN - GREEN BUILDING - FIRE PROTECTION
F-3 FIRST AND SECOND FLOOR PLANS - GREEN BUILDING - FIRE PROTECTION DEMOLITION
F-4 FIRST AND SECOND FLOOR PLANS - GREEN BUILDING - FIRE PROTECTION

ELECTRICAL CONSTRUCTION CONTRACT (4)
CONTRACT No. DGS C-0503-0026 PHASE 1

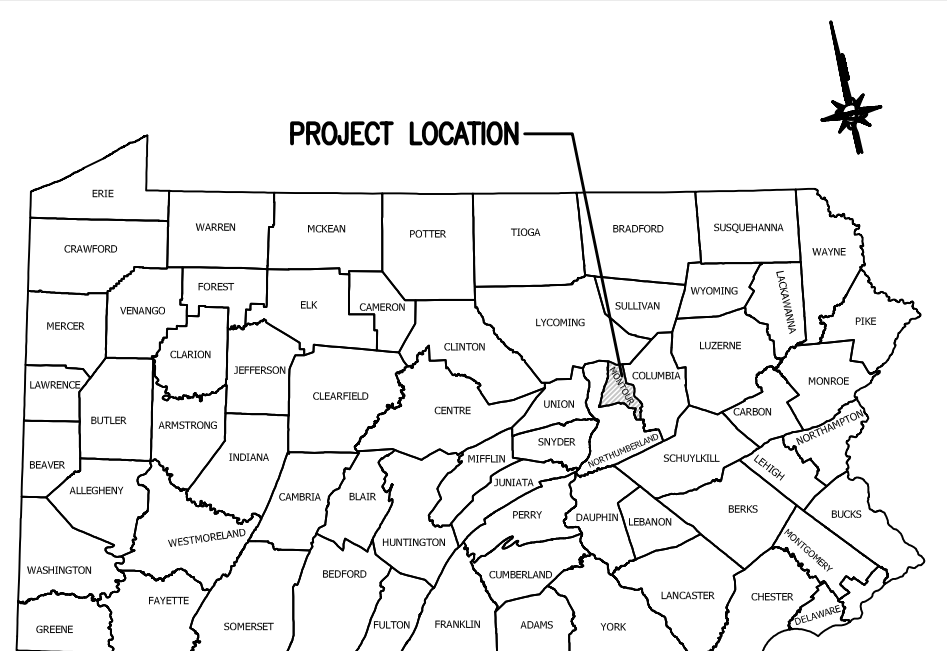
ELECTRICAL DWGS.

E-1 LEGEND AND NOTES
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E-3 FIRST FLOOR PLAN - GREEN BUILDING - ELECTRICAL
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E-5 ELECTRICAL SCHEDULES - GREEN BUILDING
E-6 SCHEDULES AND DETAILS - GREEN BUILDING
E-7 BASEMENT PLAN - REED BUILDING - ELECTRICAL

CODE APPROVALS

	Date
Pa. UCC approval / L & I - Reed	10/03/2024
Pa. UCC approval / L & I - Green	12/17/2024

PROJECT LOCATION MAP



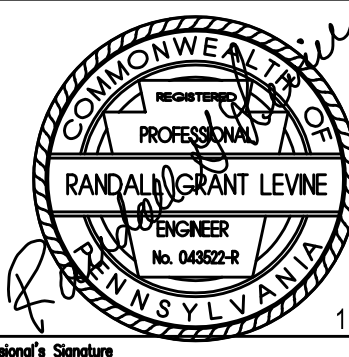
VICINITY MAP



KEY PLAN



Drawings Listed in Index
APPROVED _____ DATE _____



11/07/2024
Date



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

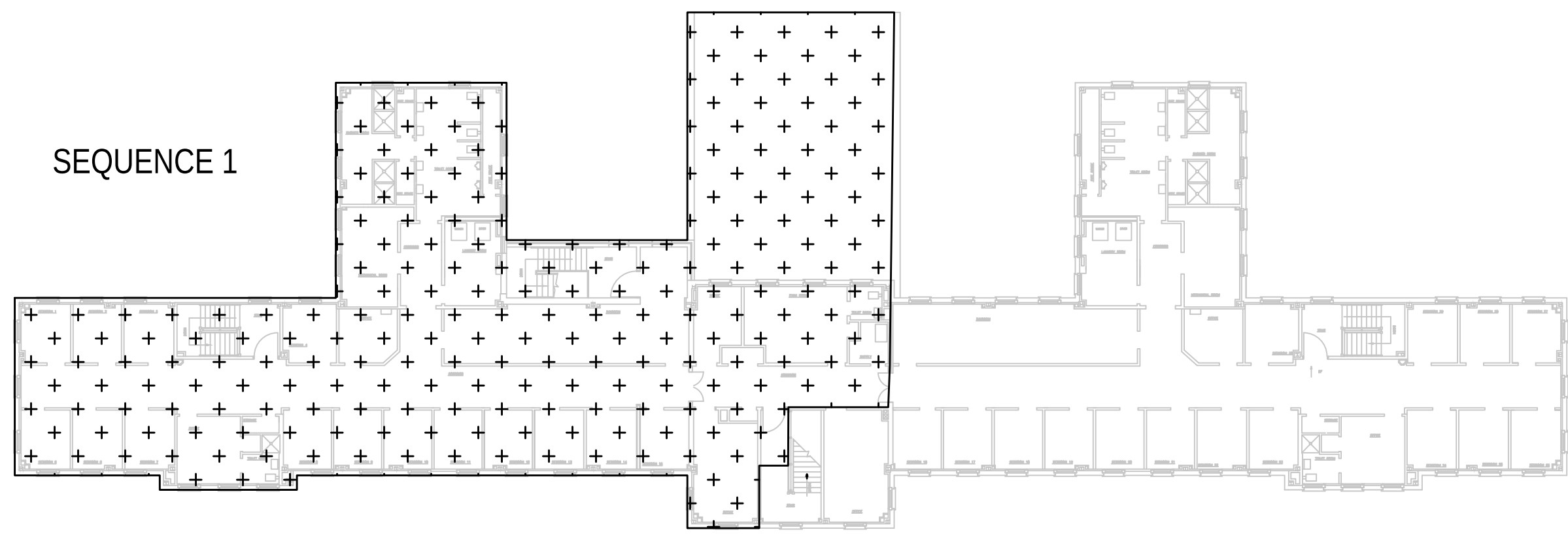
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU
HVAC UPGRADES
Danville State Hospital - NCSTU Reed And Green Buildings
Danville, Montour County, Pennsylvania

COVER SHEET

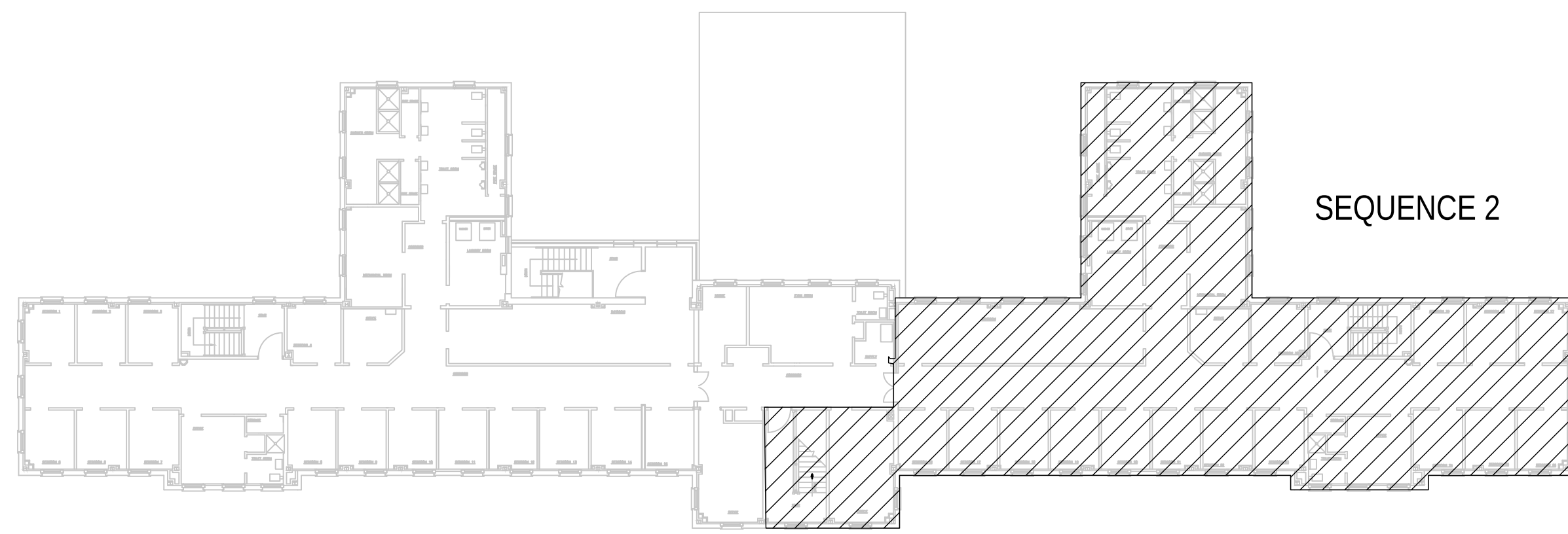
DRAWN BY: TJ	DATE: 11/07/2024	DRAWING NO.: CS-1
PROCESSED BY: RL	SCALE: AS NOTED	

FOR CONSTRUCTION - 11/07/2024



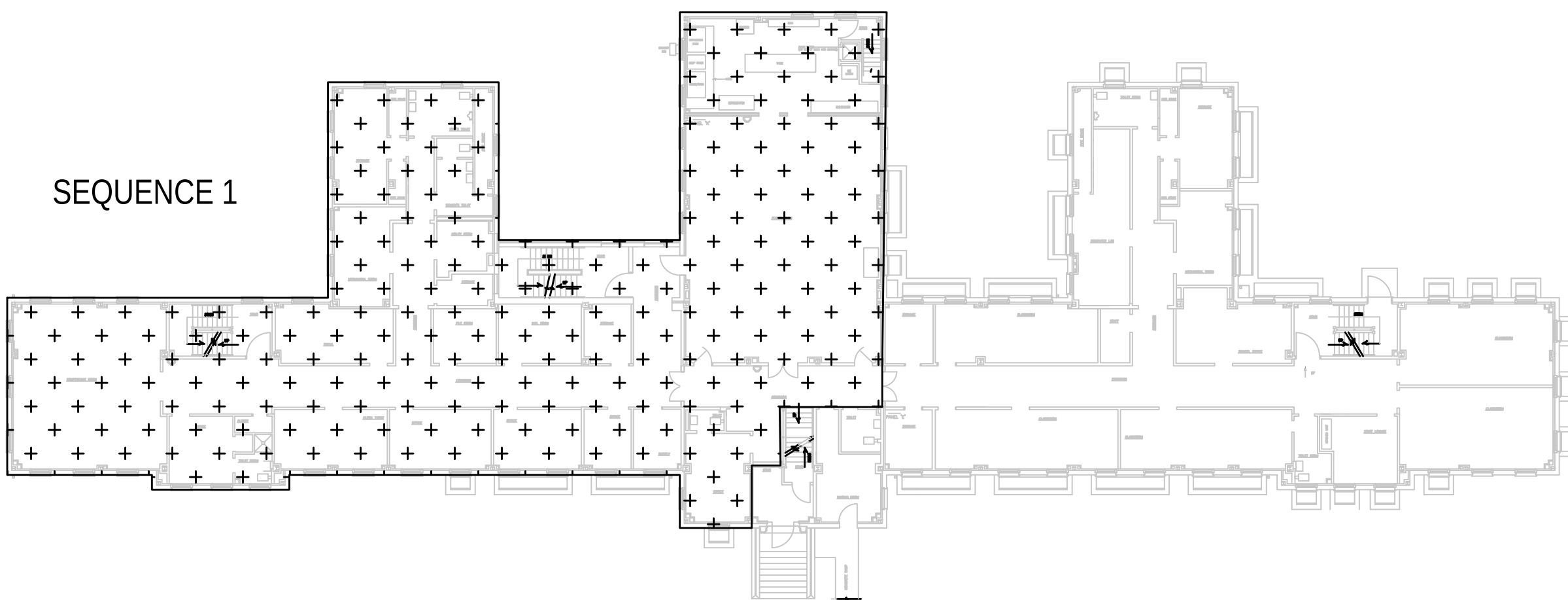
1 SECOND FLOOR PLAN - CONSTRUCTION SEQUENCE #1
CS-2 SCALE: NONE

- SEQUENCE #1:
1. CLIENT AGENCY SHALL COMPLETE THE FOLLOWING (7 BUSINESS DAYS):
 - A. RELOCATE RESIDENTS TO OPEN AREAS WITHIN THE OTHER AVAILABLE WINGS. THE CLIENT AGENCY SHALL BE RESPONSIBLE FOR BRINGING THE TEMPORARY AREAS UP TO THEIR SECURITY STANDARDS.
 - B. RELOCATE STAFF OFFICES TO OPEN AREAS WITHIN THE OTHER WINGS.
 - C. RELOCATE THE ASSOCIATED SCHOOLING AS NEEDED.
 - D. RELOCATE DIETARY TO ANOTHER BUILDING ON CAMPUS. DINING SHALL TAKE PLACE ON THE FLOOR THAT THE RESIDENTS RESIDE.
 2. THESE AREAS SHALL BE MADE INTO SECURED, FULLY-LOCKED DOWN AREAS FOR CONSTRUCTION. THE EXISTING DOORS DIVIDING THE WINGS SHALL BE UTILIZED AS A MEANS OF SEPARATION BETWEEN CONSTRUCTION AND EVERYDAY BUILDING OPERATIONS.
 3. DEMOLISH EXISTING SYSTEMS WITHIN THE ALLOTTED AREA. THE EXISTING HEATING HOT WATER AND DOMESTIC HOT WATER SYSTEMS SHALL REMAIN OPERATIONAL UNTIL THE NEW EQUIPMENT IS INSTALLED.
 4. THE 1, 2, 3, AND 4 CONTRACTORS SHALL COMPLETE ALL ASSOCIATED GENERAL, HVAC, ELECTRICAL, AND FIRE PROTECTION WORK ON THE SECOND AND FIRST FLOORS.
 5. THE 2 CONTRACTOR SHALL TEST, ADJUST, AND BALANCE THE SECOND, FIRST, AND GROUND FLOORS.
 6. COMMISSIONING SHALL BE COMPLETED.
 7. THE CLIENT AGENCY SHALL COMPLETE THE FOLLOWING (7 BUSINESS DAYS):
 - C. CONDUCT FINAL WALKTHROUGH.
 - D. ENSURE AREAS MEET ALL FACILITY STANDARDS.
 - E. RELOCATE RESIDENTS AND EMPLOYEES TO FINISHED AREA.

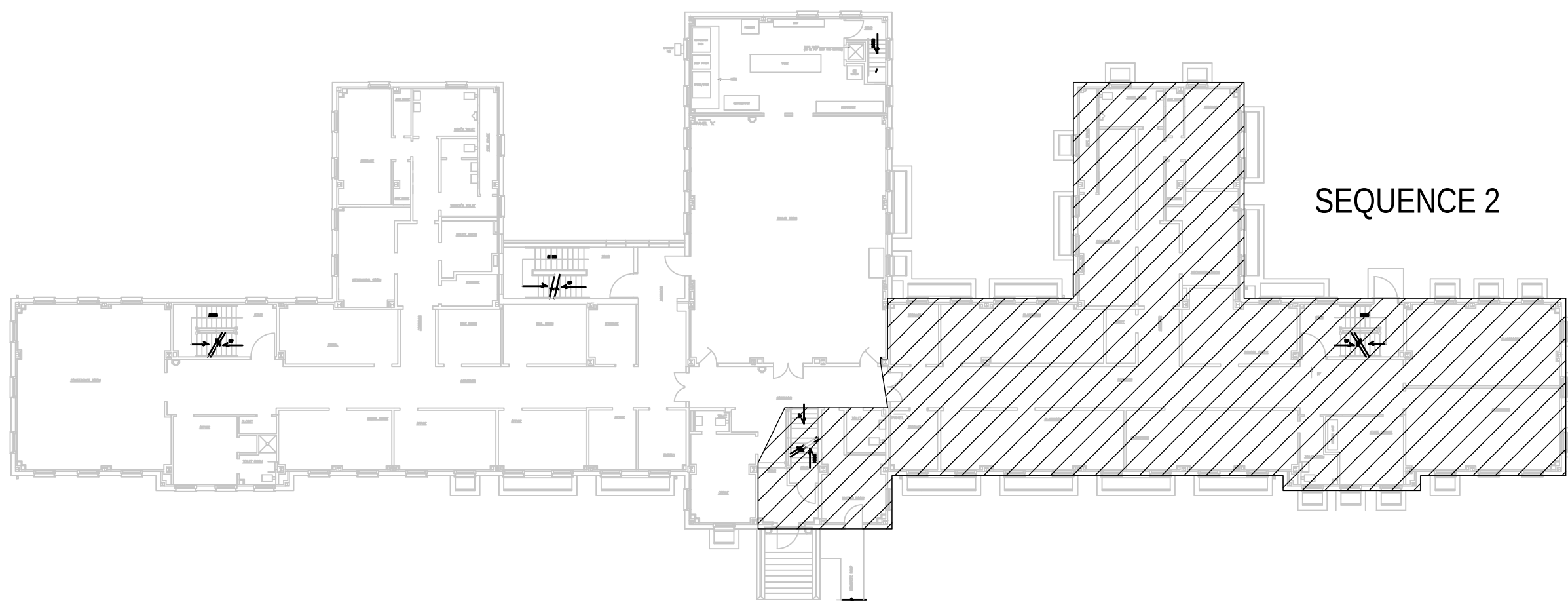


4 SECOND FLOOR PLAN - CONSTRUCTION SEQUENCE #2
CS-2 SCALE: NONE

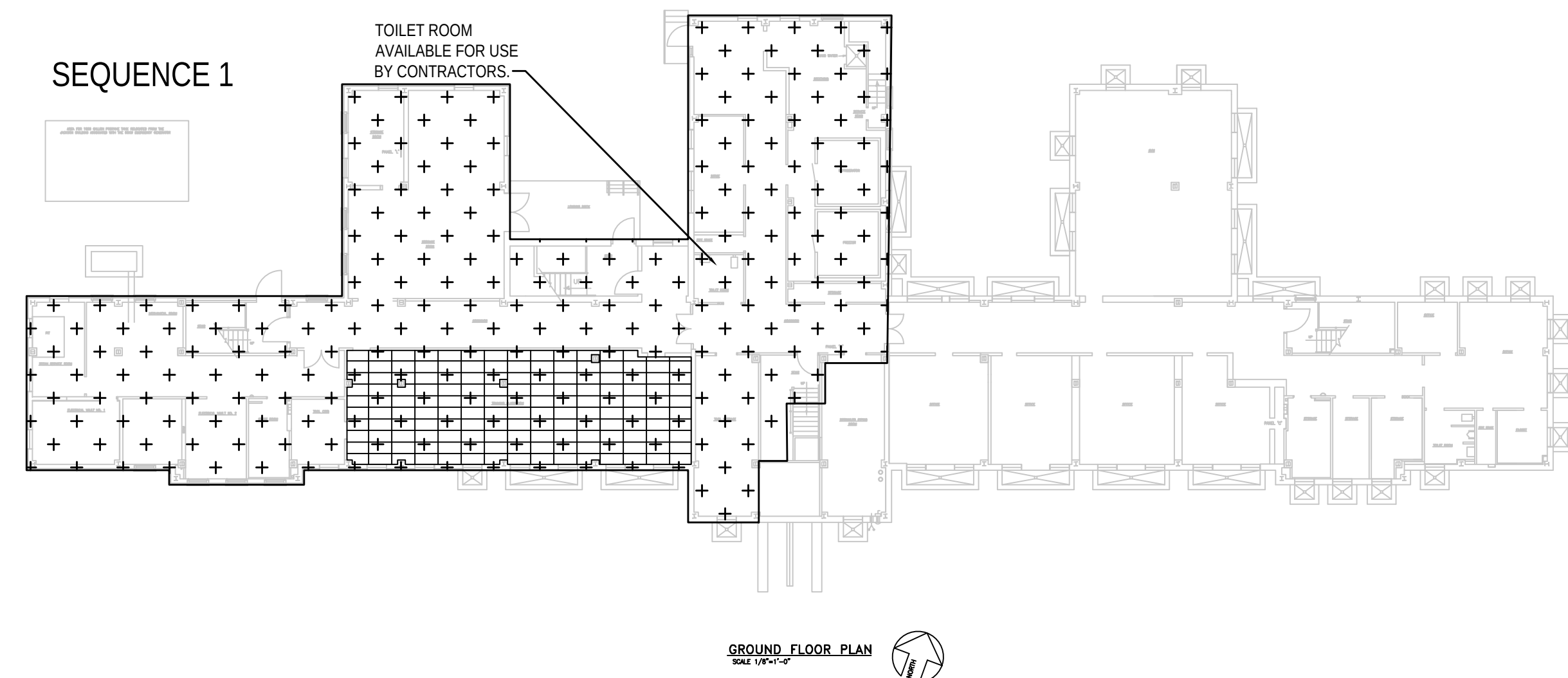
- SEQUENCE #2:
1. CLIENT AGENCY SHALL COMPLETE THE FOLLOWING (7 BUSINESS DAYS):
 - A. RELOCATE RESIDENTS TO OPEN AREAS WITHIN THE OTHER AVAILABLE WINGS. THE CLIENT AGENCY SHALL BE RESPONSIBLE FOR BRINGING THE TEMPORARY AREAS UP TO THEIR SECURITY STANDARDS.
 - B. RELOCATE STAFF OFFICES TO OPEN AREAS WITHIN THE OTHER WINGS.
 - C. RELOCATE THE ASSOCIATED SCHOOLING AS NEEDED.
 - D. RELOCATE DIETARY TO ANOTHER BUILDING ON CAMPUS. DINING SHALL TAKE PLACE ON THE FLOOR THAT THE RESIDENTS RESIDE.
 2. THESE AREAS SHALL BE MADE INTO SECURED, FULLY-LOCKED DOWN AREAS FOR CONSTRUCTION. THE EXISTING DOORS DIVIDING THE WINGS SHALL BE UTILIZED AS A MEANS OF SEPARATION BETWEEN CONSTRUCTION AND EVERYDAY BUILDING OPERATIONS.
 3. DEMOLISH EXISTING SYSTEMS WITHIN THE ALLOTTED AREA.
 4. THE 1, 2, 3, AND 4 CONTRACTORS SHALL COMPLETE ALL ASSOCIATED GENERAL, HVAC, ELECTRICAL, AND FIRE PROTECTION WORK ON THE SECOND AND FIRST FLOORS.
 5. THE 2 CONTRACTOR SHALL TEST, ADJUST, AND BALANCE THE SECOND, FIRST, AND GROUND FLOORS.
 6. COMMISSIONING SHALL BE COMPLETED.
 7. THE CLIENT AGENCY SHALL COMPLETE THE FOLLOWING (7 BUSINESS DAYS):
 - C. CONDUCT FINAL WALKTHROUGH.
 - D. ENSURE AREAS MEET ALL FACILITY STANDARDS.
 - E. RELOCATE RESIDENTS AND EMPLOYEES TO FINISHED AREA.



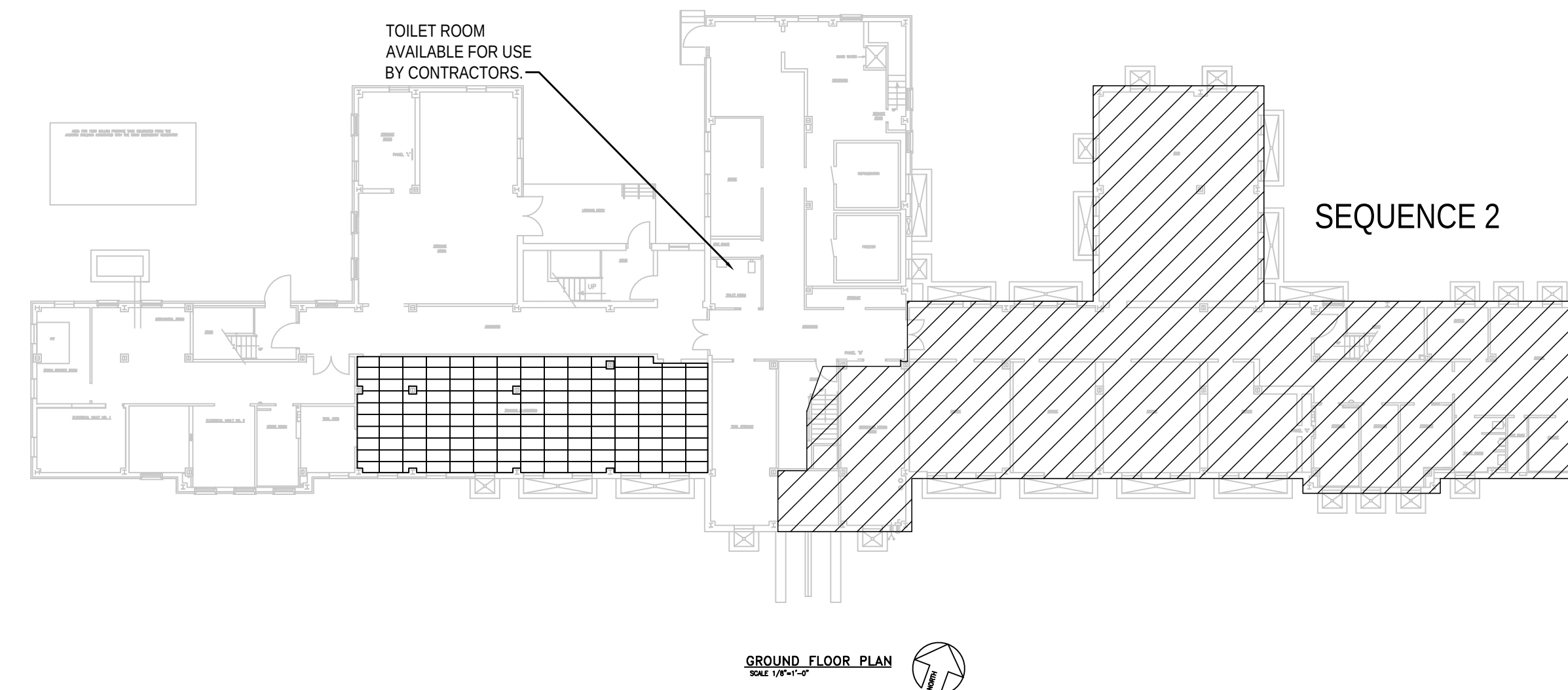
2 FIRST FLOOR PLAN - CONSTRUCTION SEQUENCE #1
CS-2 SCALE: NONE



5 FIRST FLOOR PLAN - CONSTRUCTION SEQUENCE #2
CS-2 SCALE: NONE



3 GROUND FLOOR PLAN - CONSTRUCTION SEQUENCE #1
CS-2 SCALE: NONE



6 GROUND FLOOR PLAN - CONSTRUCTION SEQUENCE #2
CS-2 SCALE: NONE

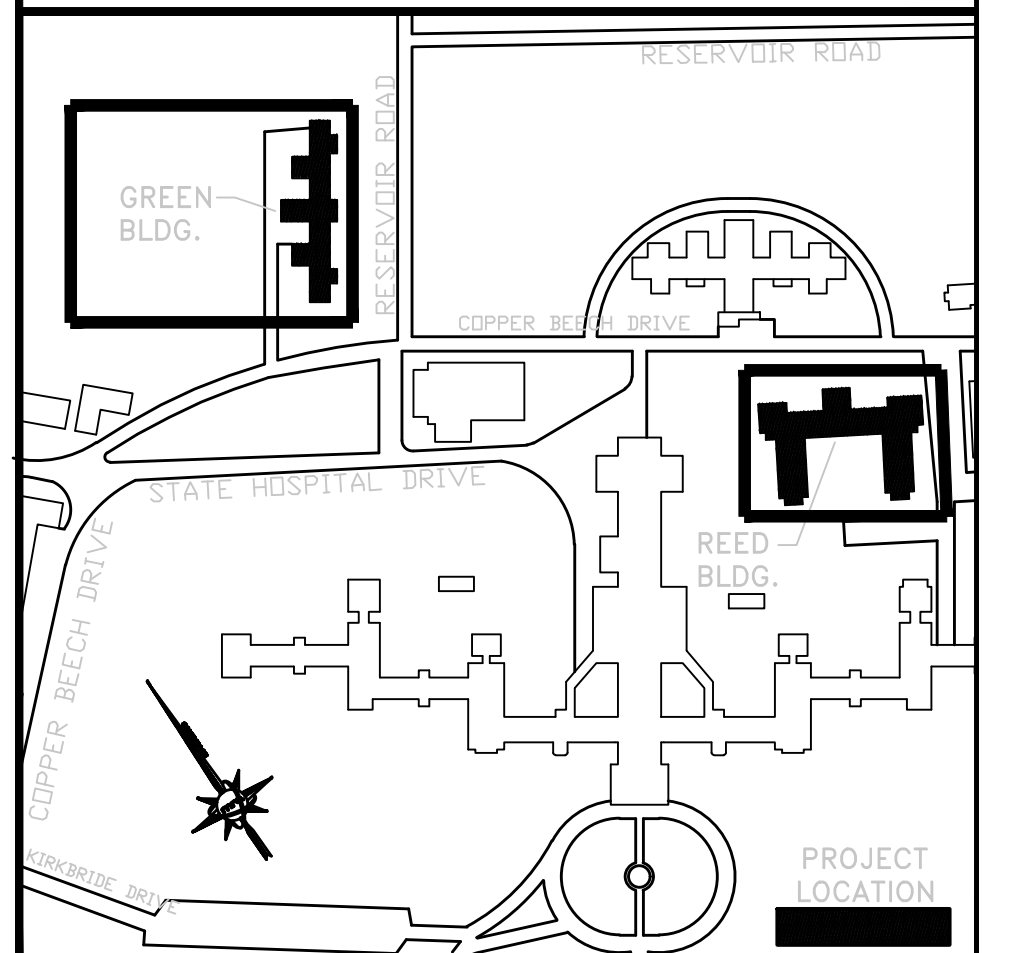
VERIFY SCALE

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



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

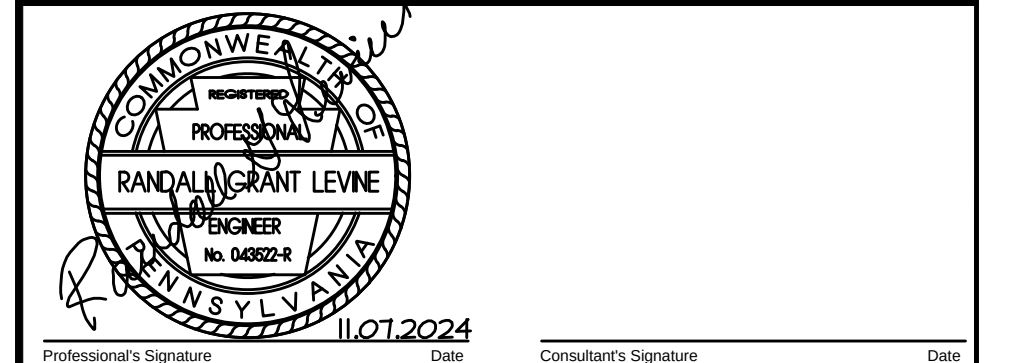
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

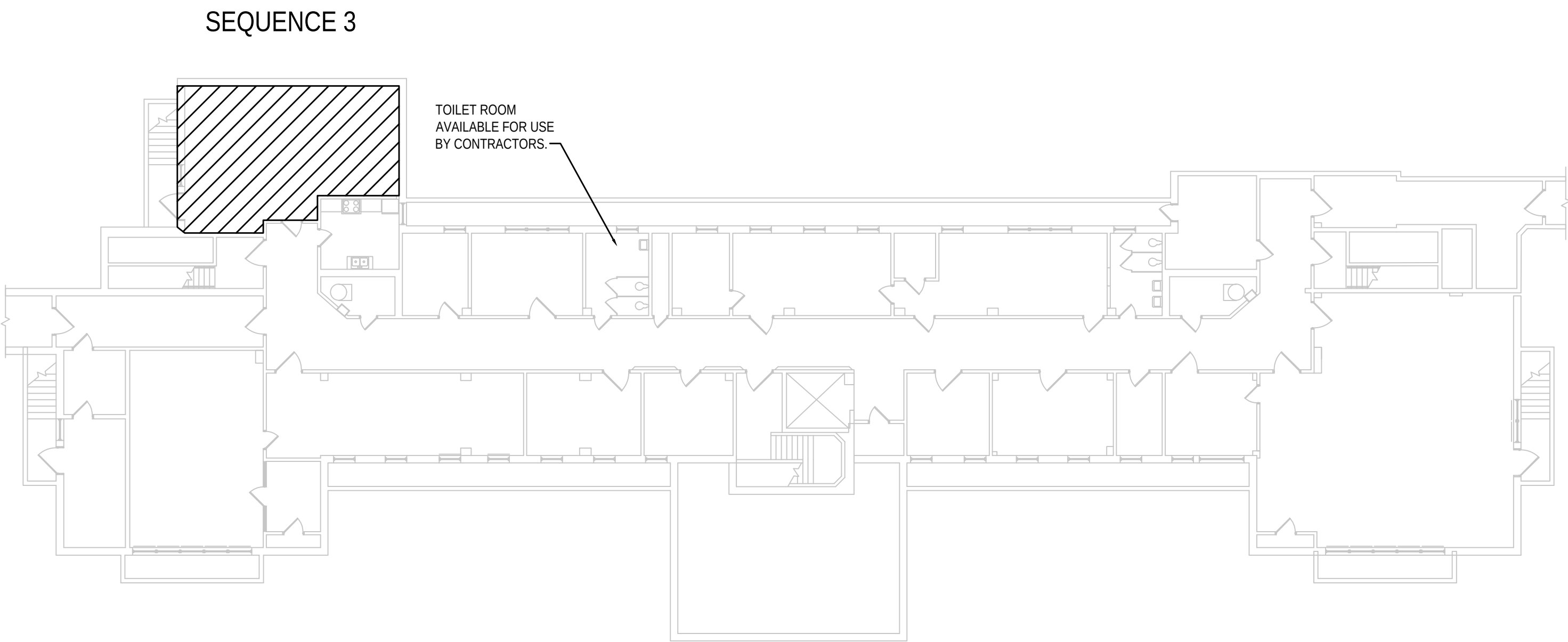
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

FLOOR PLANS - GREEN BUILDING -
CONSTRUCTION SEQUENCES

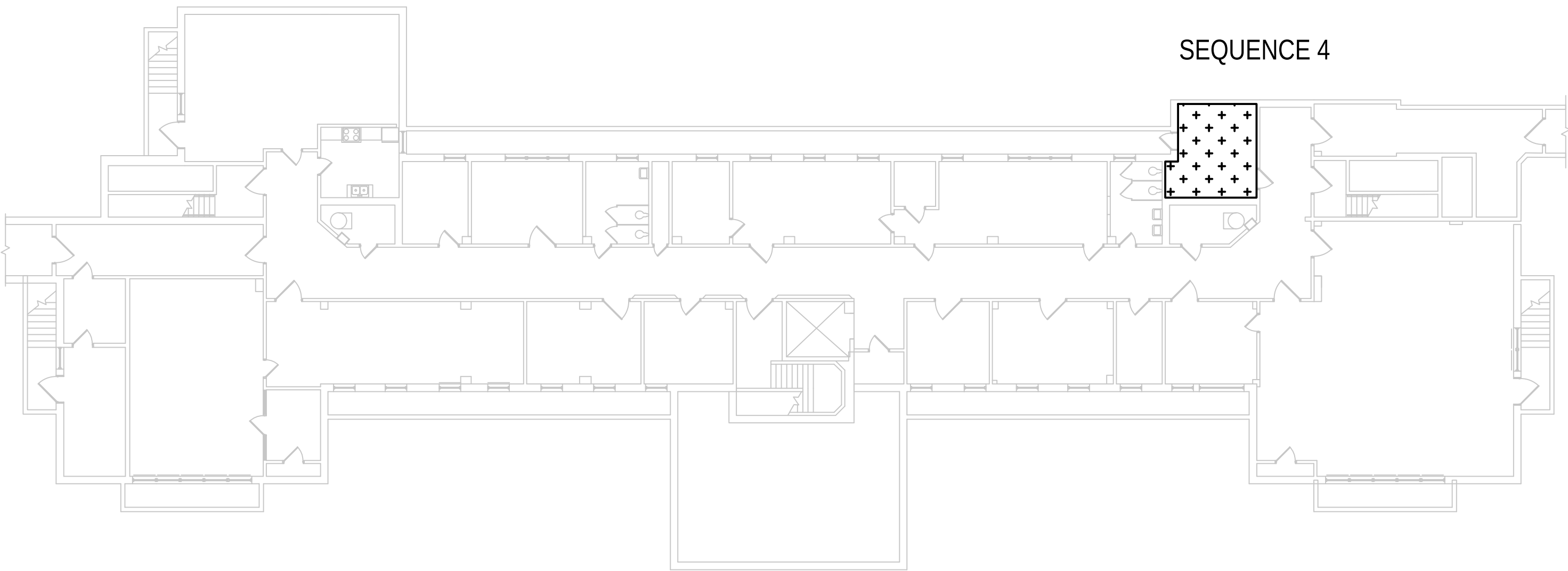
DRAWN BY: TJ	DATE: 11/07/2024	CONTRACT NO.:
CHECKED BY: RL	SCALE: AS NOTED	CS-2

FOR CONSTRUCTION 11/07/2024



- SEQUENCE #3:
1. THE .2 CONTRACTOR SHALL CONDUCT HAZARD MATERIALS ABATEMENT AND REMOVAL.
 2. DEMOLISH EXISTING SYSTEMS WITHIN THE ALLOTTED AREA. THE EXISTING STEAM AND CONDENSATE TO SEQUENCE 4 MECHANICAL ROOM SHALL REMAIN INTACT AND OPERATIONAL.
 3. THE .1, .2, .3, AND .4 CONTRACTORS SHALL COMPLETE ALL ASSOCIATED GENERAL, HVAC, ELECTRICAL, AND FIRE PROTECTION WORK WITHIN THE SPACE.
 4. THE .2 CONTRACTOR SHALL TEST, ADJUST, AND BALANCE ALL NEW SYSTEMS.
 5. COMMISSIONING SHALL BE COMPLETED.
 6. THE CLIENT AGENCY SHALL COMPLETE THE FOLLOWING:
 - A. CONDUCT FINAL WALKTHROUGH.

1 GROUND FLOOR PLAN - CONSTRUCTION SEQUENCE #3
CS-3 SCALE: NONE



- SEQUENCE #4:
1. THE .2 CONTRACTOR SHALL CONDUCT HAZARD MATERIALS ABATEMENT AND REMOVAL.
 2. DEMOLISH EXISTING SYSTEMS WITHIN THE ALLOTTED AREA.
 3. THE .1, .2, .3, AND .4 CONTRACTORS SHALL COMPLETE ALL ASSOCIATED GENERAL, HVAC, ELECTRICAL, AND FIRE PROTECTION WORK WITHIN THE SPACE.
 4. THE .2 CONTRACTOR SHALL TEST, ADJUST, AND BALANCE ALL NEW SYSTEMS.
 5. COMMISSIONING SHALL BE COMPLETED.
 6. THE CLIENT AGENCY SHALL COMPLETE THE FOLLOWING:
 - A. CONDUCT FINAL WALKTHROUGH.

2 GROUND FLOOR PLAN - CONSTRUCTION SEQUENCE #4
CS-3 SCALE: NONE

VERIFY SCALE

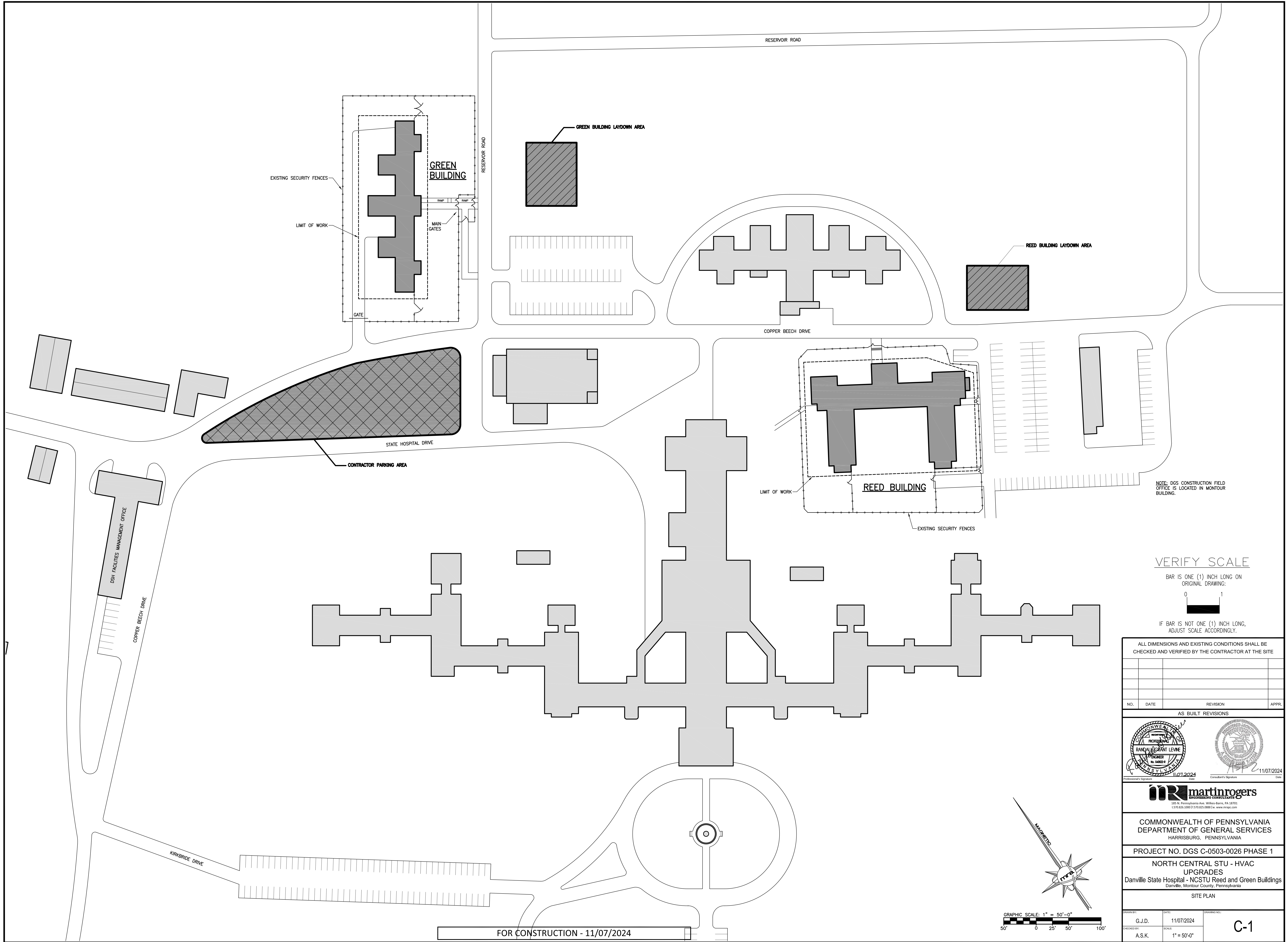
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:



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

KEY PLAN																			
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE																			
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NO.	DATE	REVISION	APPR.																
AS BUILT REVISIONS																			
Professional's Signature: _____ Date: 11/07/2024 Consultant's Signature: _____ Date: _____																			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA																			
PROJECT NO. DGS C-0503-0026 PHASE 1																			
NORTH CENTRAL STU - HVAC UPGRADES Danville State Hospital - NCSTU Reed and Green Buildings Danville, Montour County, Pennsylvania																			
FLOOR PLANS - REED BUILDING - CONSTRUCTION SEQUENCES																			
DRAWN BY: TJ		DATE: 11/07/2024	CONTRACT NO.: CS-3																
CHECKED BY: RL		SCALE: AS NOTED																	

FOR CONSTRUCTION 11/07/2024



NOTE: DGS CONSTRUCTION FIELD OFFICE IS LOCATED IN MONTGOMERY BUILDING.

VERIFY SCALE

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



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

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

PROFESSIONAL'S SIGNATURE
RANDAL GRANT LEVINE
11/07/2024
DATE

CONSULTANT'S SIGNATURE
MARTIN ROGERS
11/07/2024
DATE

martinrogers
ENGINEERING CONSULTANTS
135 N. Tenth Street, Suite 200, Harrisburg, PA 17102
1.570.826.1000 | 1.570.825.0888 | www.mrtprc.com

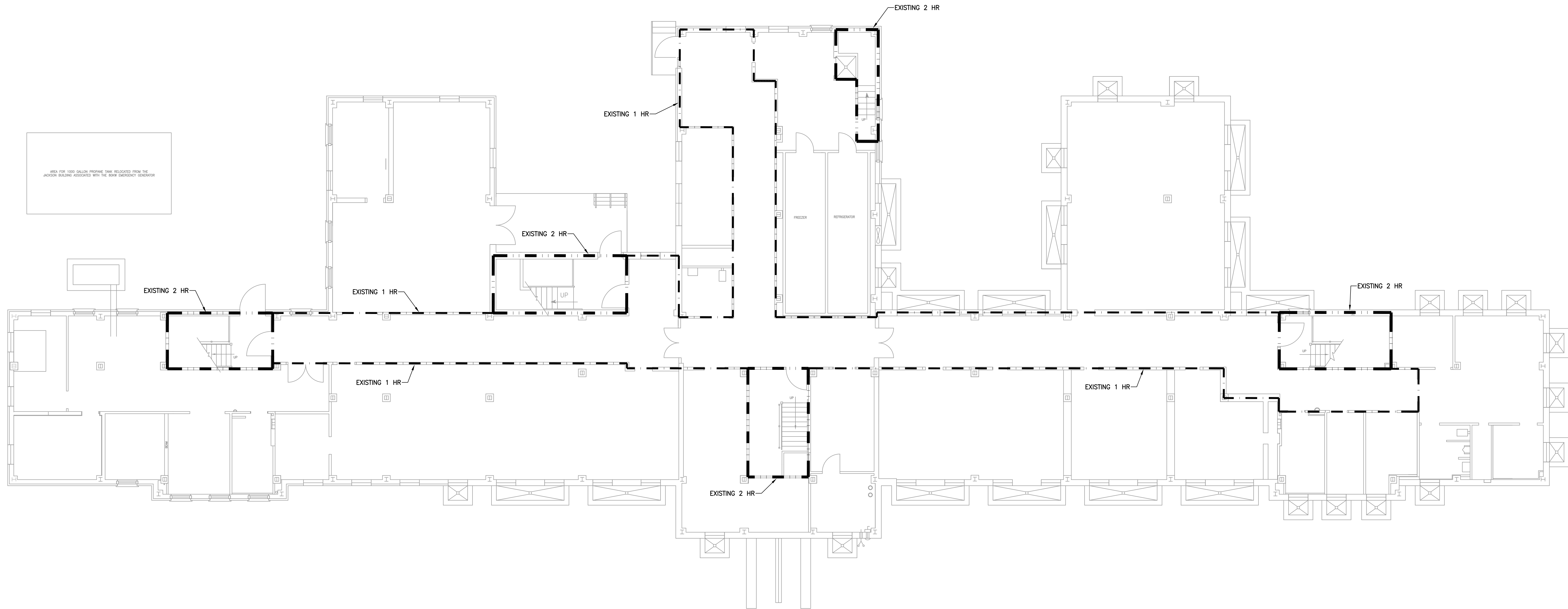
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

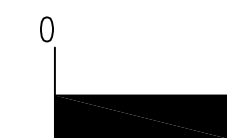
SITE PLAN

DRAWN BY: G.J.D.	DATE: 11/07/2024	DRAWING NO.: C-1
CHECKED BY: A.S.K.	SCALE: 1" = 50'-0"	



VERIFY SCALE

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



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

1 BASEMENT - GREEN BUILDING - CODE PLAN

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

CODE SUMMARY:

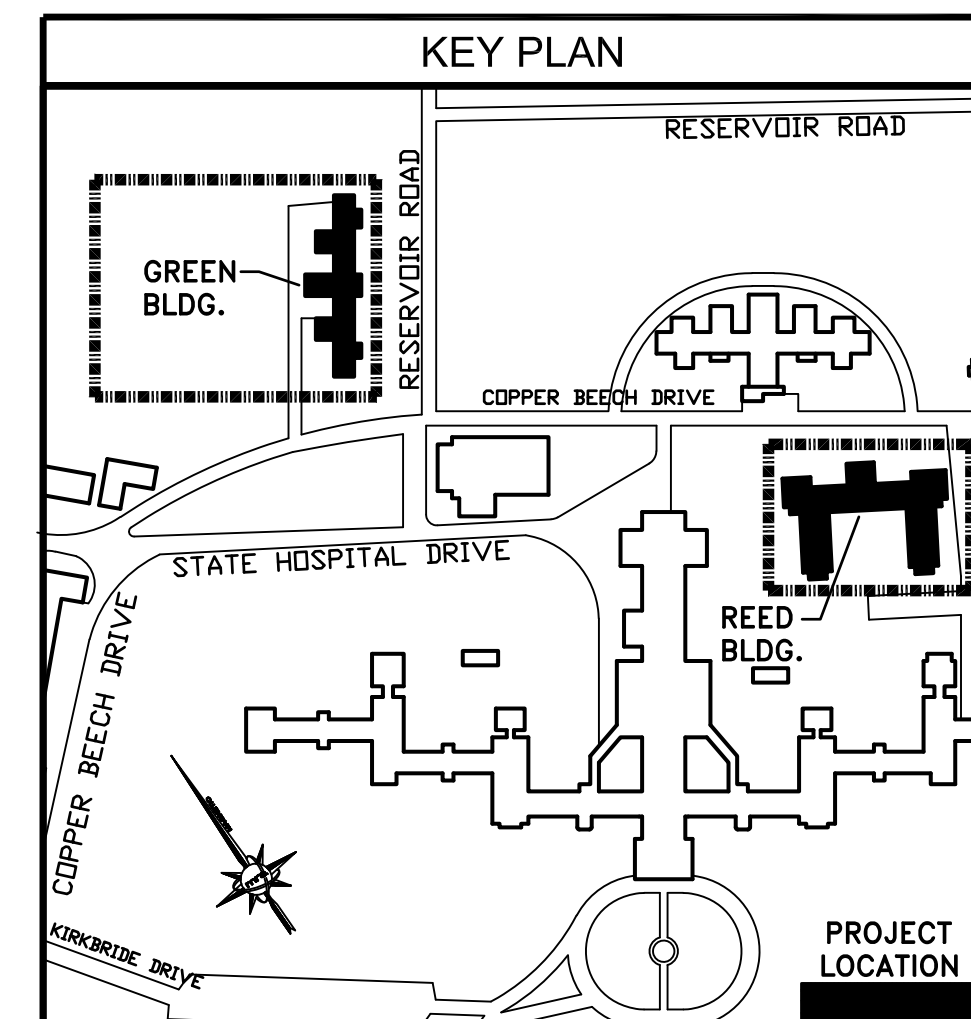
- IEBC 2018 ALTERATION - LEVEL 2
 - IBC 2018 OCCUPANCY CONSTRUCTION FIRE PROTECTION
- EXISTING INSTITUTIONAL I-3 USE GROUP
TYPE II A
EXISTING AUTOMATIC SPRINKLER SYSTEM
EXISTING FIRE ALARM SYSTEM
EXISTING FIRE EXTINGUISHERS

CODE PLAN LEGEND:

- ONE HOUR WALL
- TWO HOUR WALL

FLOOR ASSEMBLY:

- EXISTING ONE HOUR RATED FLOOR ASSEMBLY
- CEILINGS UNRATED



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

Professional's Signature: <i>Randall Grant Levine</i>	Consultant's Signature: <i>Martin Rogers</i>
Date: 11/07/2024	Date: 11/07/2024

martinrogers
ENGINEERING CONSULTANTS
135 N. Tremont Avenue, Willow Grove, PA 19153
1.570.826.1000 | 1.570.829.0888 | www.mrtspc.com

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

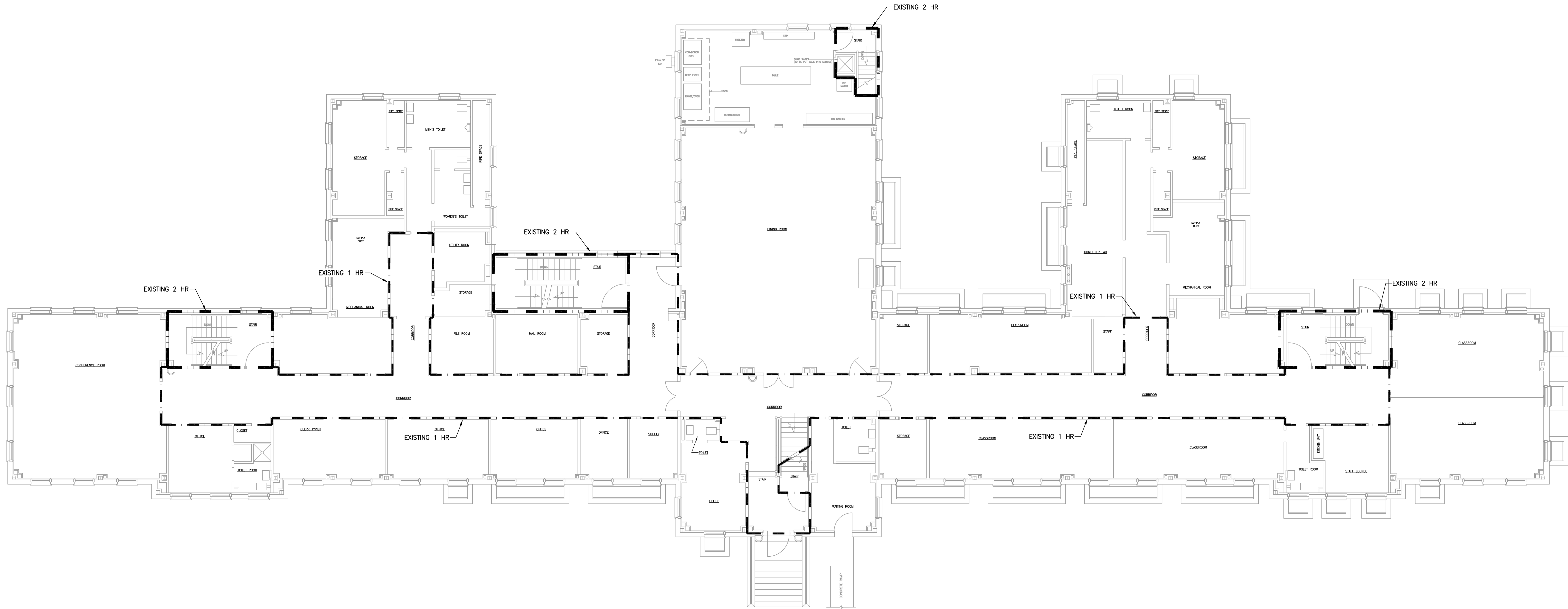
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

GREEN BUILDING BASEMENT PLAN
CODE PLAN

DESIGNED BY: V.P.	DATE: 11/07/2024	CP-1
CHECKED BY: A.S.K.	SCALE: 1/8" = 1'-0"	

FOR CONSTRUCTION - 11/07/2024



FIRST FLOOR — GREEN BUILDING — CODE PLAN
CP-2 SCALE: 1/8" = 1'-0"

CODE SUMMARY:

- IEBC 2018 ALTERATION — LEVEL 2
- IBC 2018 OCCUPANCY CONSTRUCTION FIRE PROTECTION
- EXISTING INSTITUTIONAL I-3 USE GROUP
- TYPE II A EXISTING AUTOMATIC SPRINKLER SYSTEM
- EXISTING FIRE ALARM SYSTEM
- EXISTING FIRE EXTINGUISHERS

CODE PLAN LEGEND:

- — — ONE HOUR WALL
- - - - - TWO HOUR WALL

FLOOR ASSEMBLY:

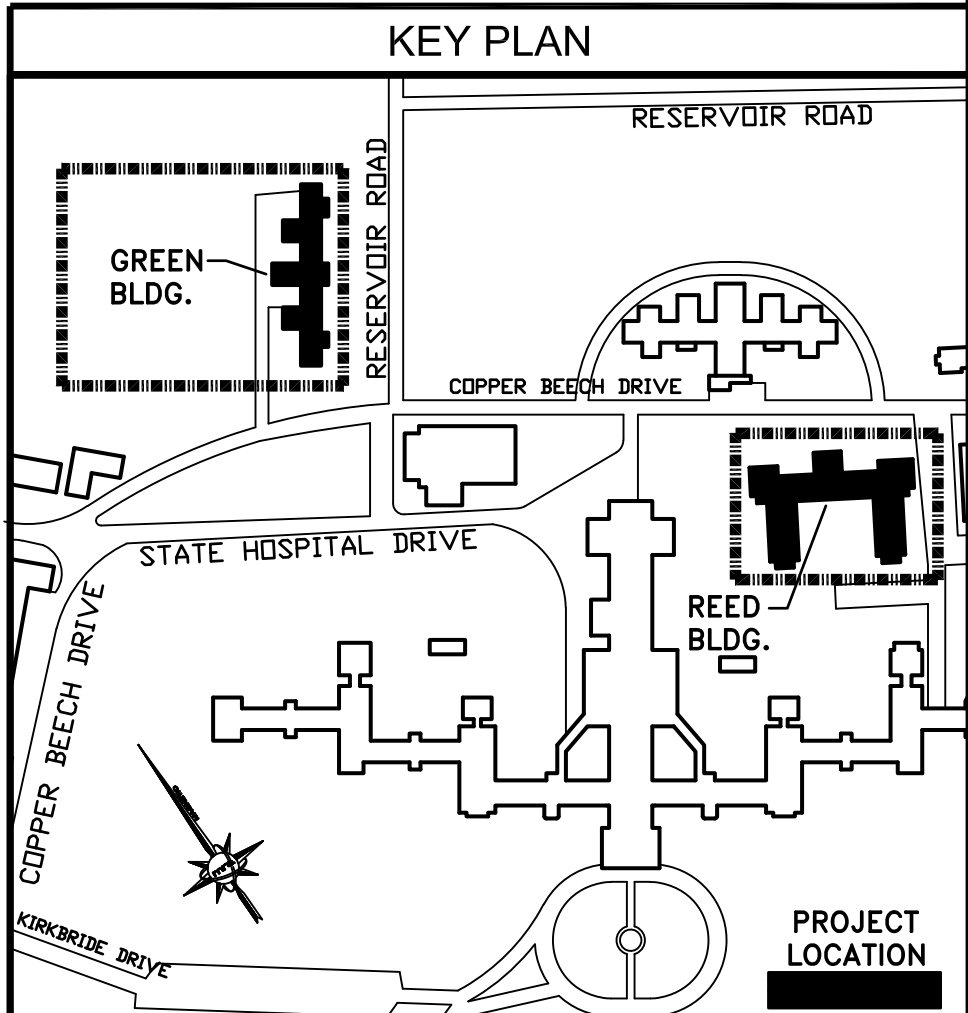
- EXISTING ONE HOUR RATED FLOOR ASSEMBLY
- CEILINGS UNRATED

VERIFY SCALE

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



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



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

Professional's Signature: *Randall Grant Levine* Date: 11/07/2024

Consultant's Signature: *Martin Rogers* Date: 11/07/2024

135 N. Tremont Avenue, Willow Grove, PA 19153
1.570.826.1000 | 1.570.829.0888 | www.mrtape.com

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

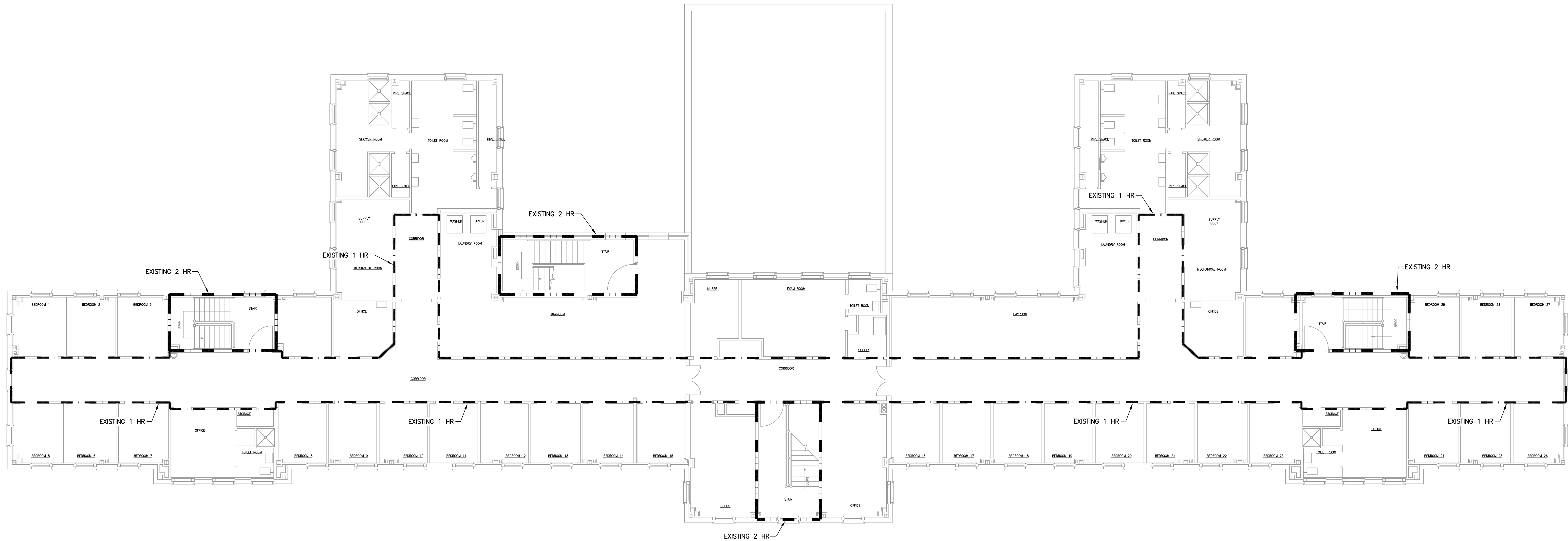
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

GREEN BUILDING FIRST FLOOR PLAN
CODE PLAN

DRAWN BY: V.P.	DATE: 11/07/2024	CP-2
CHECKED BY: A.S.K.	SCALE: 1/8" = 1'-0"	

FOR CONSTRUCTION - 11/07/2024



1 SECOND FLOOR – GREEN BUILDING – CODE PLAN
GP-3 SCALE: 1/8" = 1'-0"

CODE SUMMARY:

- IEBC 2018 ALTERATION – LEVEL 2
- IBC 2018 OCCUPANCY CONSTRUCTION FIRE PROTECTION
- EXISTING INSTITUTIONAL I-3 USE GROUP
- TYPE II A
- EXISTING AUTOMATIC SPRINKLER SYSTEM
- EXISTING FIRE ALARM SYSTEM
- EXISTING FIRE EXTINGUISHERS

CODE PLAN LEGEND:

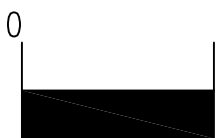
- — — ONE HOUR WALL
- - - - TWO HOUR WALL

FLOOR ASSEMBLY:

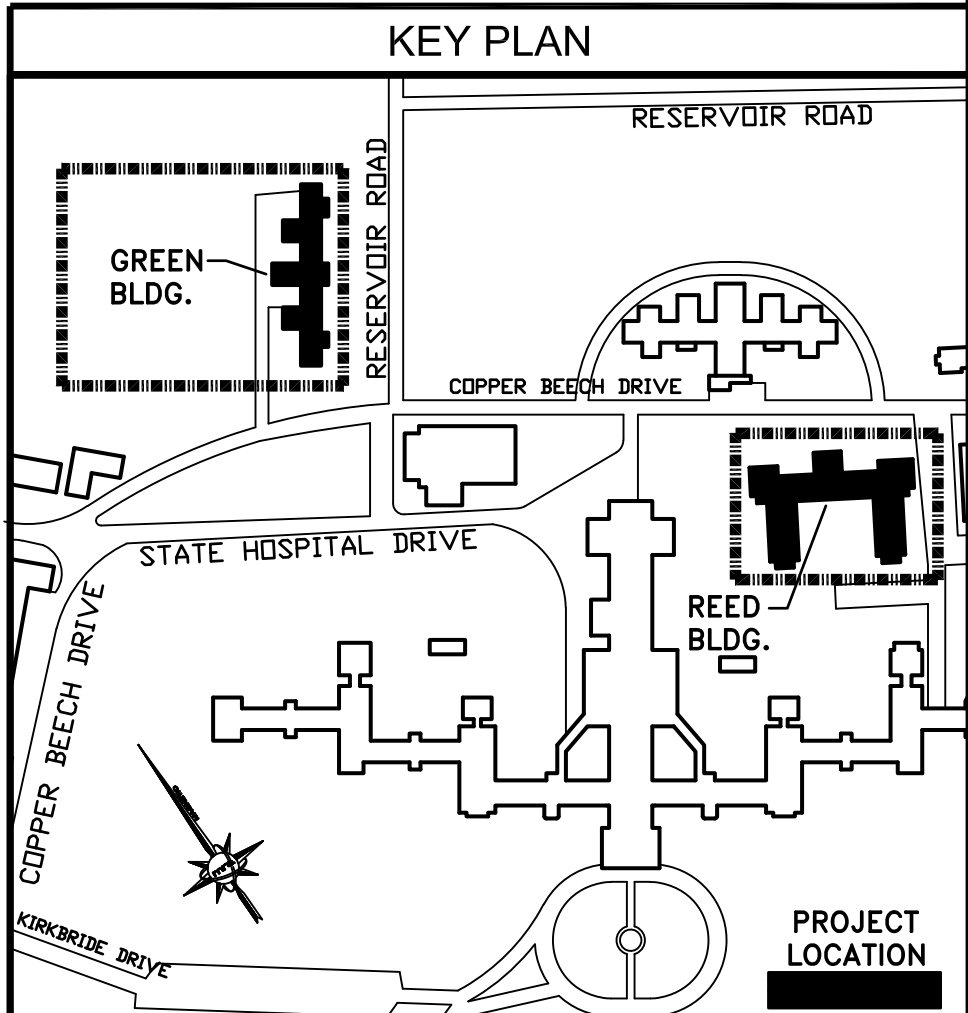
- EXISTING ONE HOUR RATED FLOOR ASSEMBLY
- CEILINGS UNRATED

VERIFY SCALE

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ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

Professional's Signature: *R. Grant Levine* Date: 11/07/2024

Consultant's Signature: *M. Rogers* Date: 11/07/2024

m martinrogers
ENGINEERING CONSULTANTS
135 N. Tremont Park Ave. - Millersburg, PA 16768
1.570.826.1000 | 1.570.829.0888 | www.mrtrogers.com

COMMONWEALTH OF PENNSYLVANIA
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HARRISBURG, PENNSYLVANIA

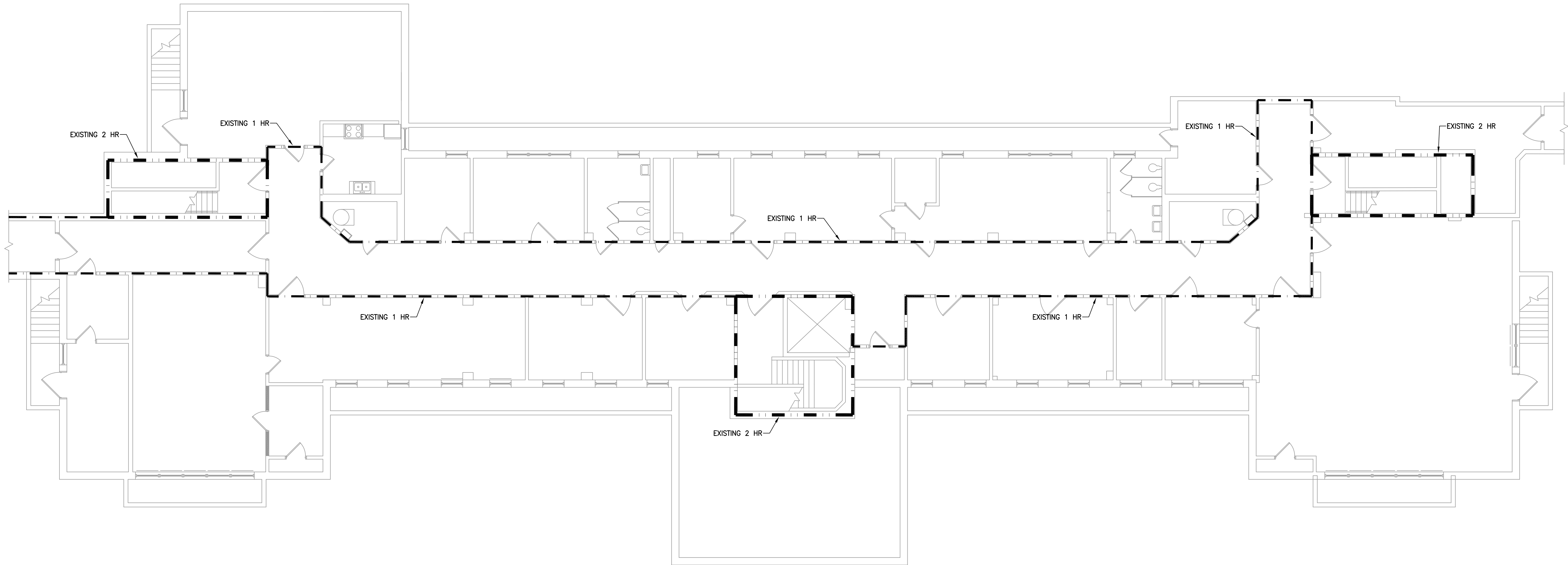
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

GREEN BUILDING SECOND FLOOR PLAN
CODE PLAN

DESIGNED BY: V.P.	DATE: 11/07/2024	DRAWING NO.: CP-3
CHECKED BY: A.S.K.	SCALE: 1/8" = 1'-0"	

FOR CONSTRUCTION - 11/07/2024



1 BASEMENT - REED BUILDING - CODE PLAN
CP-4 SCALE: 1/8" = 1'-0"

CODE SUMMARY:

- IEBC 2018 ALTERATION - LEVEL 2
- IBC 2018 OCCUPANCY CONSTRUCTION FIRE PROTECTION
- EXISTING INSTITUTIONAL I-3 USE GROUP
- TYPE II A
- EXISTING AUTOMATIC SPRINKLER SYSTEM
- EXISTING FIRE ALARM SYSTEM
- EXISTING FIRE EXTINGUISHERS

CODE PLAN LEGEND:

- ONE HOUR WALL
- TWO HOUR WALL

FLOOR ASSEMBLY:

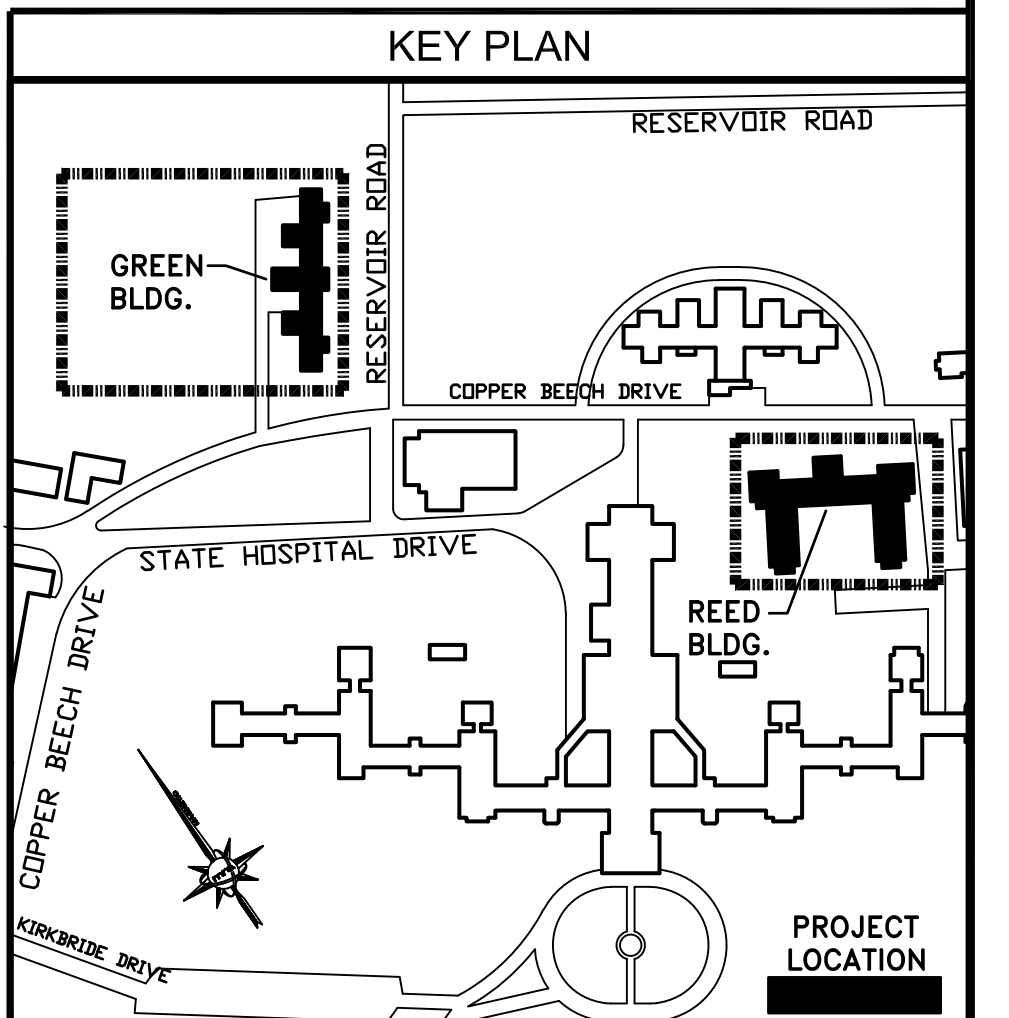
- EXISTING ONE HOUR RATED FLOOR ASSEMBLY
- CEILINGS UNRATED

VERIFY SCALE

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



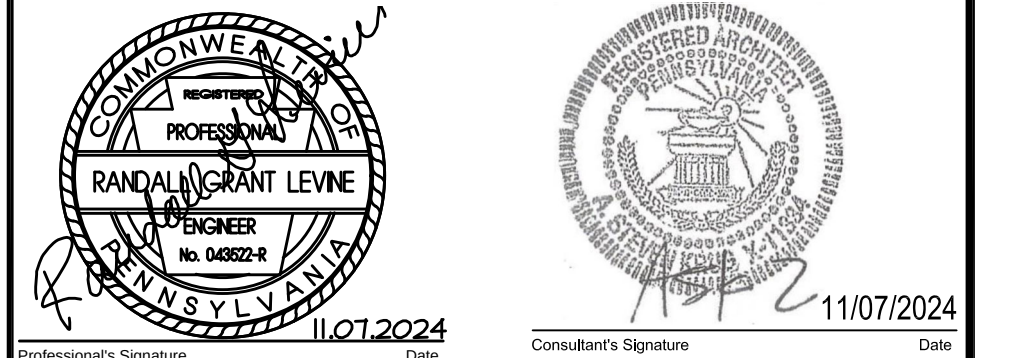
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

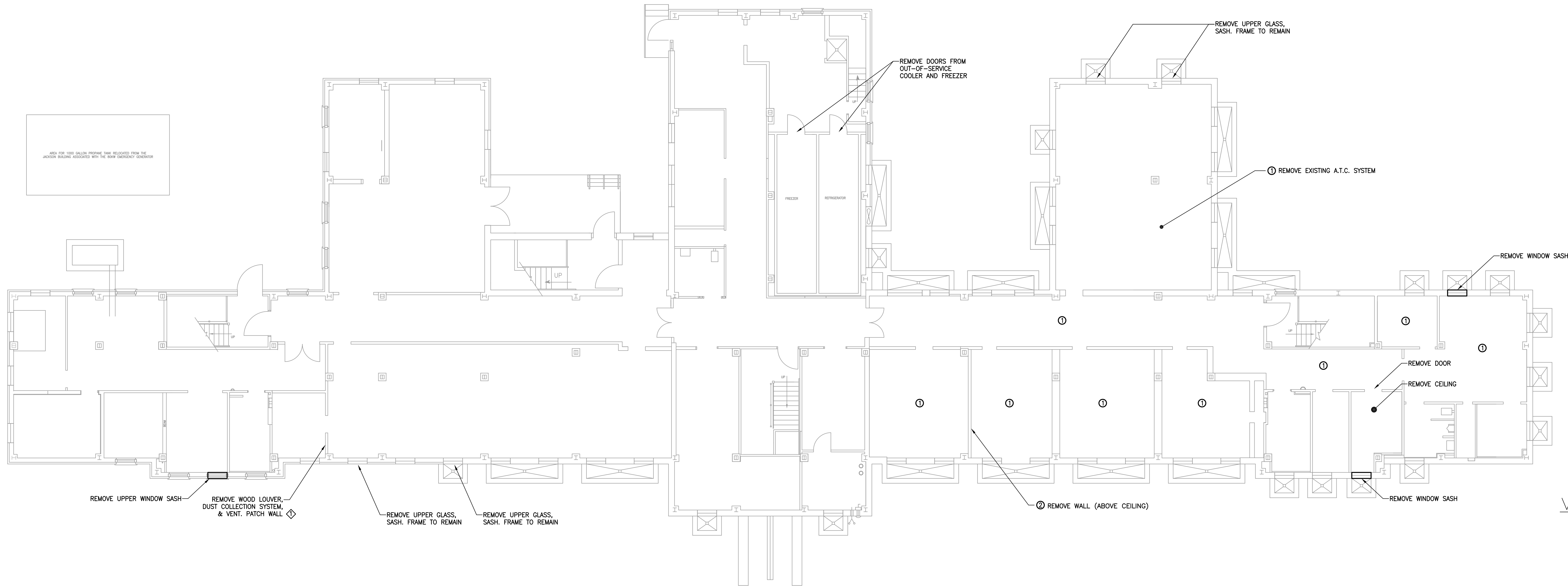
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

REED BUILDING BASEMENT PLAN
CODE PLAN

DESIGNED BY: V.P.	DATE: 11/07/2024	CP-4
CHECKED BY: A.S.K.	SCALE: 1/8" = 1'-0"	

FOR CONSTRUCTION - 11/07/2024



VERIFY SCALE

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



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

1 BASEMENT PLAN - GREEN BUILDING - DEMOLITION

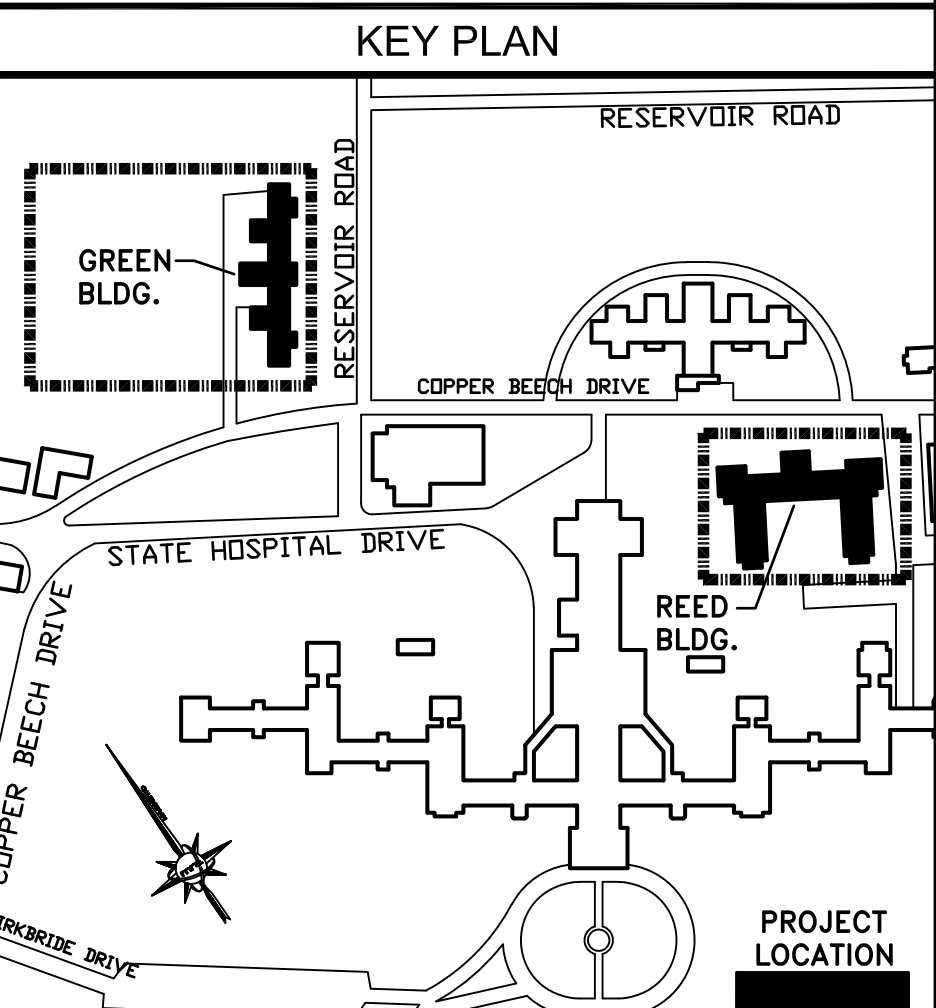
A-1 SCALE: 1/8" = 1'-0"

NOTE:

LEAD PAINT: WORK SHALL BE CONDUCTED UNDER THE ASSUMPTION THAT ALL SURFACE COATINGS CONTAIN LEAD. ALL DISTURBANCE ACTIVITIES SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING OSHA 29 CFR 1926.62. WORK ACTIVITIES SHALL ENSURE AREAS BEYOND WORK AREA ARE NOT CONTAMINATED. REFER TO SECTION 01040 FOR ANY ADDITIONAL REQUIREMENTS.

NOTES:

- 1 REMOVE EXISTING A.T.C. SYSTEM.
- 2 REMOVE EXISTING REMAINDER OF WALL ABOVE CEILING.



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS			

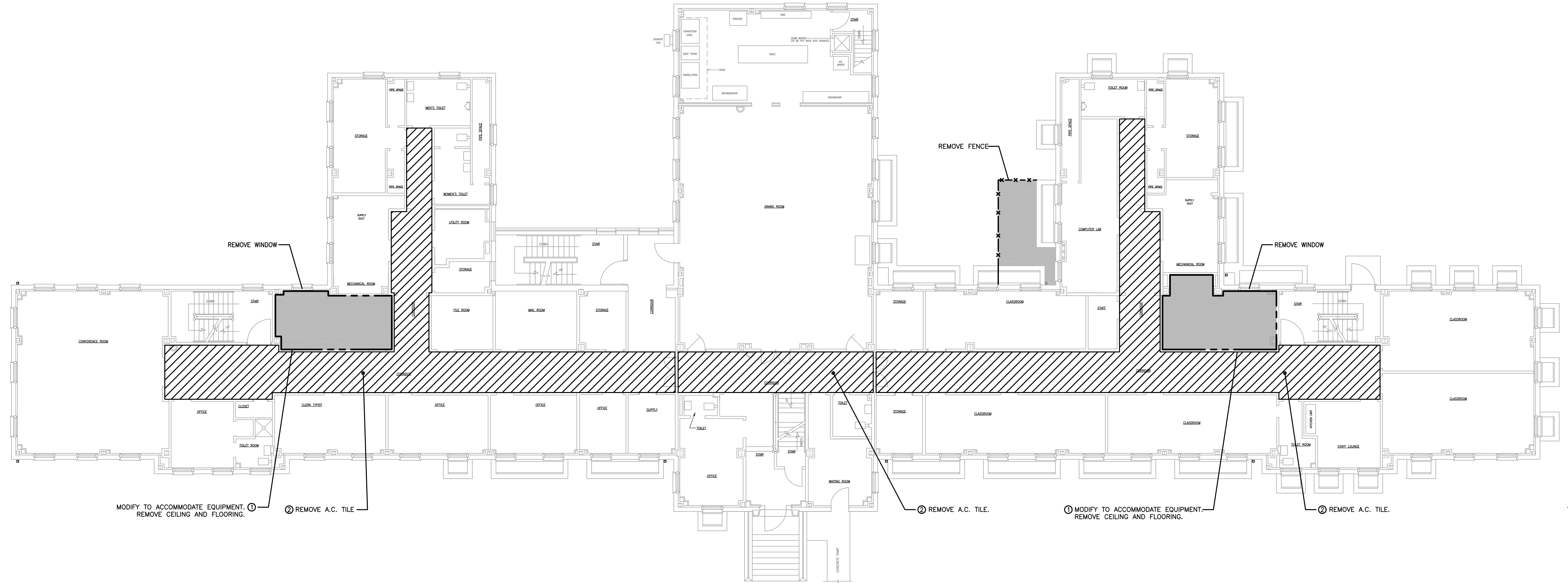
Professional's Signature: Date: 11/07/2024

Consultant's Signature: Date: 11/07/2024

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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA			
PROJECT NO. DGS C-0503-0026 PHASE 1			
NORTH CENTRAL STU - HVAC UPGRADES Danville State Hospital - NCSTU Reed and Green Buildings Danville, Montour County, Pennsylvania			
GREEN BUILDING BASEMENT PLAN DEMOLITION			
DRAWN BY: V.P.	DATE: 11/07/2024	A-1	
CHECKED BY: A.S.K.	SCALE: 1/8" = 1'-0"		

FOR CONSTRUCTION - 11/07/2024



FIRST FLOOR PLAN – GREEN BUILDING – DEMOLITION
SCALE: 1/8" = 1'-0"

NOTES:

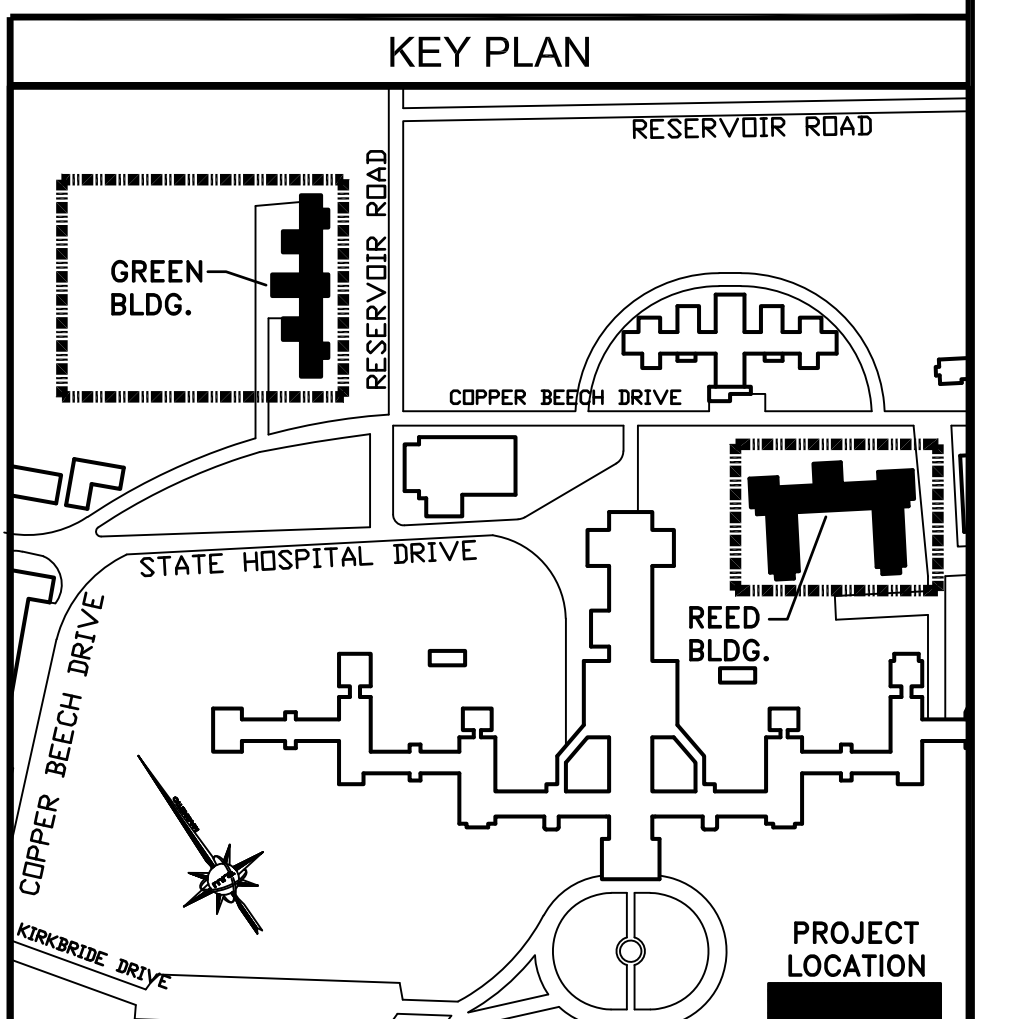
- 1 REMOVE EXISTING CEILING. REMOVE WINDOW. REMOVE CARPET.
- 2 CORRIDOR CEILING TILES SHALL BE CAREFULLY REMOVED AND STORED AS REQUIRED TO REMOVE EXISTING DUCTWORK AND INSTALL NEW DUCTWORK. REINSTALL EXISTING UNDAMAGED CEILING TILES AND PROVIDE 20% NEW CEILING TILES TO REPLACE DAMAGED CEILING TILES. CEILING GRID TO REMAIN.

VERIFY SCALE

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



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



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

Professional's Signature: *R. Grant Levine* Date: 11/07/2024

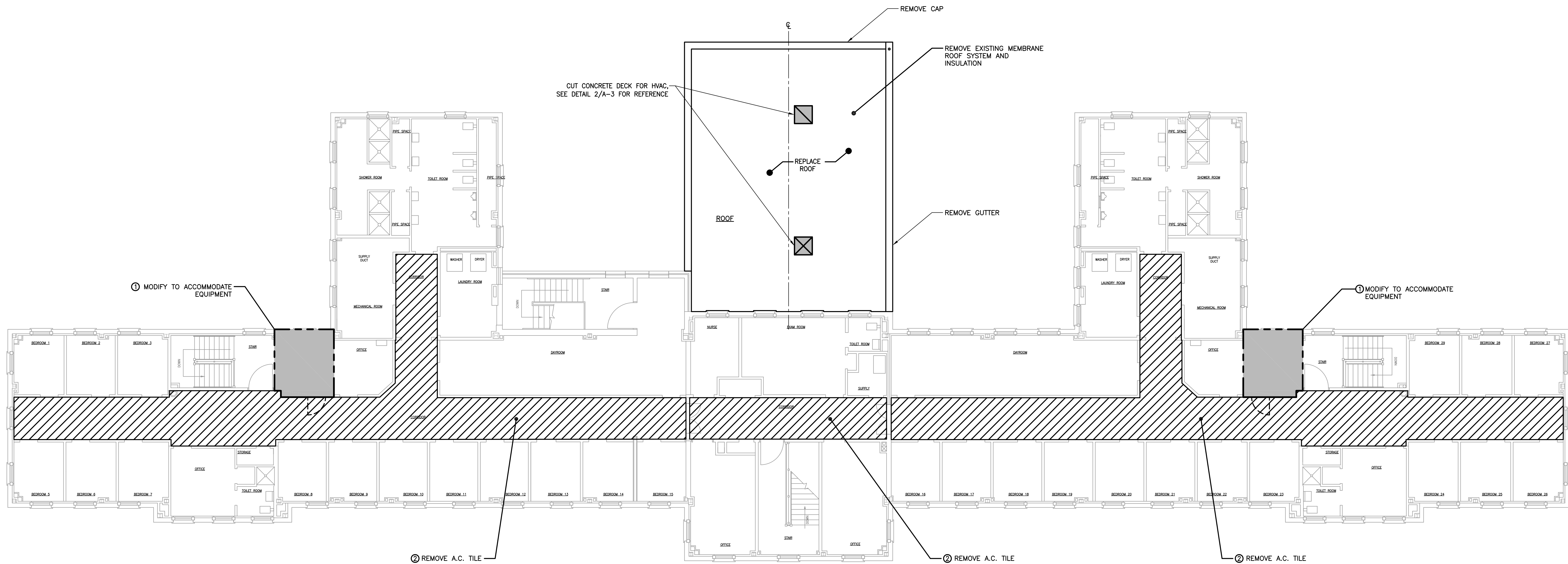
Consultant's Signature: *M. Rogers* Date: 11/07/2024

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1
NORTH CENTRAL STU - HVAC UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania
GREEN BUILDING FIRST FLOOR PLAN
DEMOLITION
DRAWN BY: V.P. DATE: 11/07/2024
CHECKED BY: A.S.K. SCALE: 1/8" = 1'-0"
A-2

FOR CONSTRUCTION - 11/07/2024



VERIFY SCALE

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

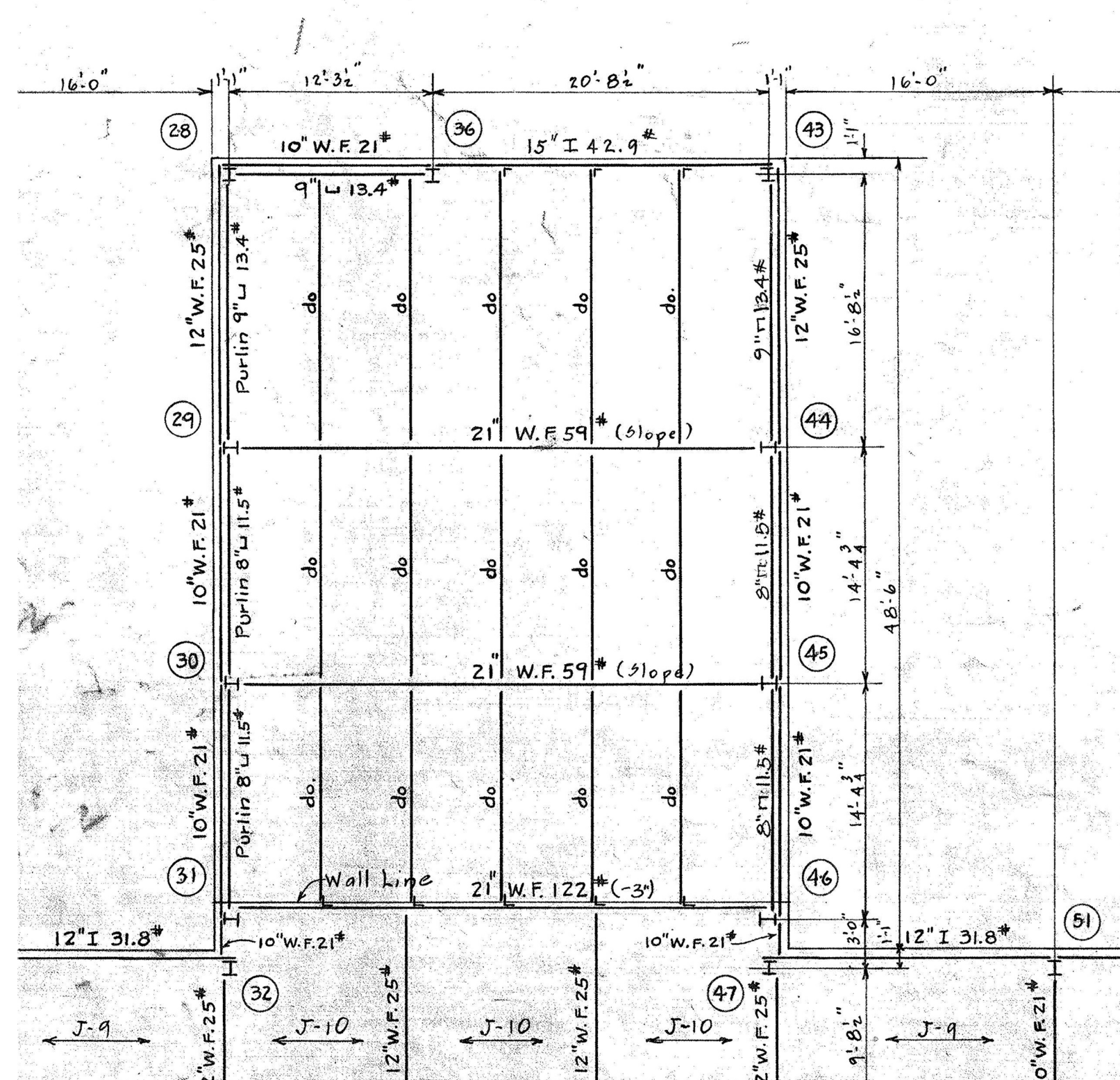
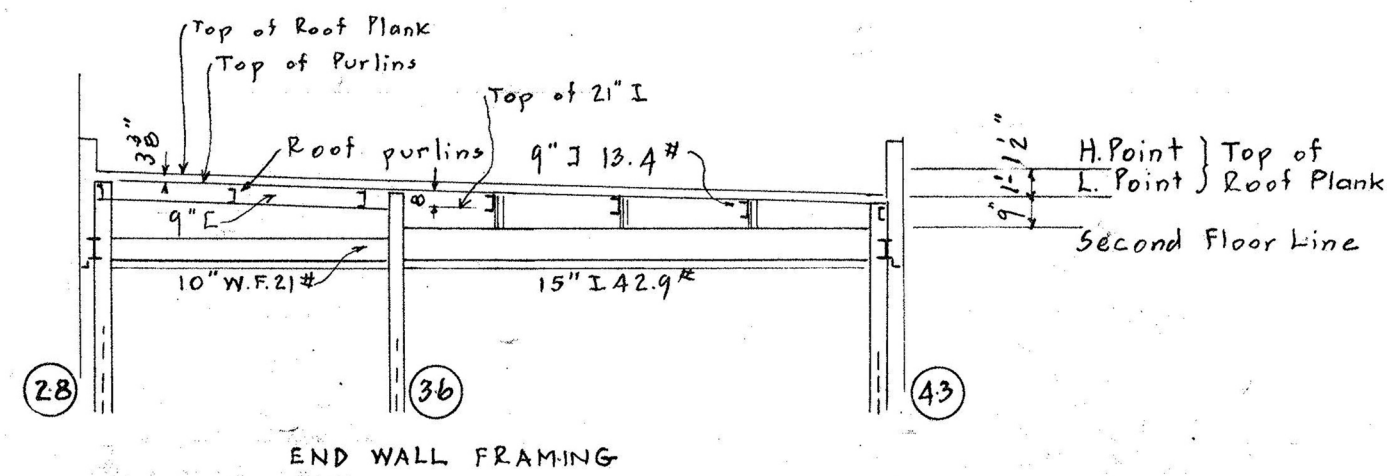


IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.

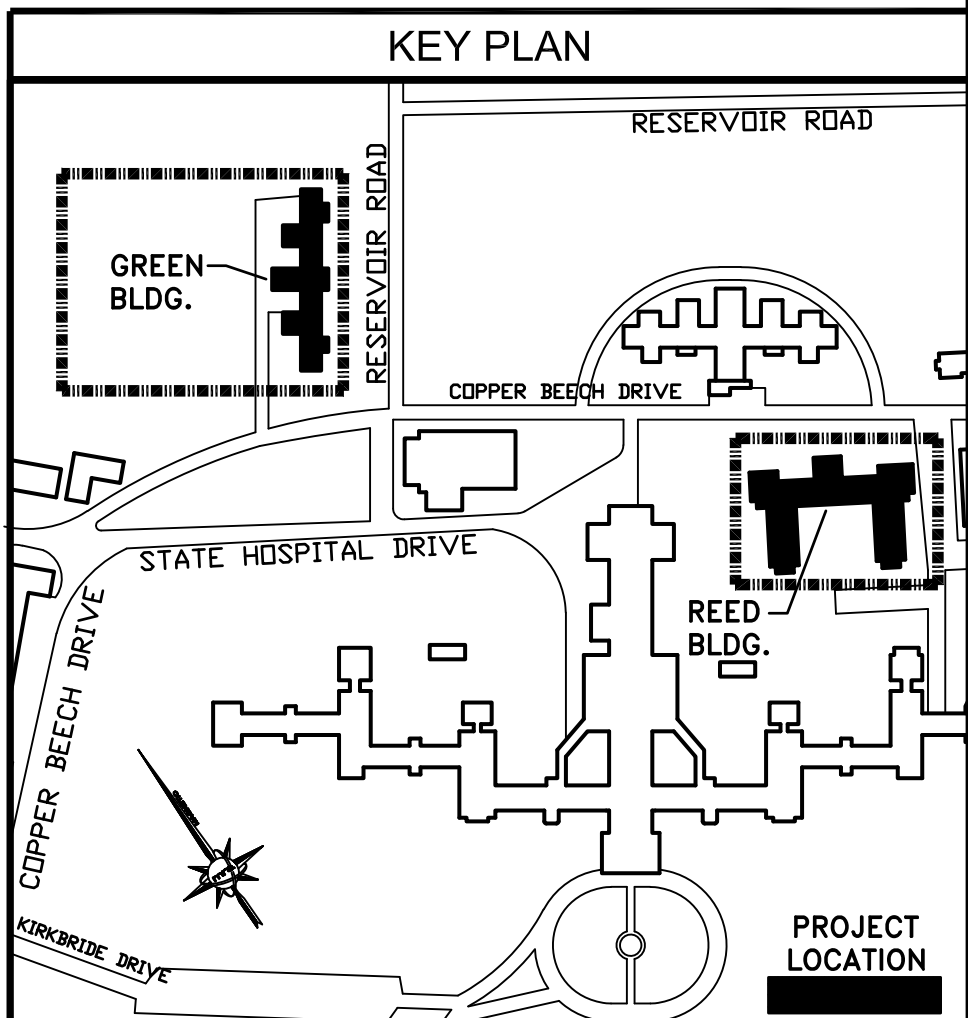
1 SECOND FLOOR PLAN - GREEN BUILDING - DEMOLITION
A-3 SCALE: 1/8" = 1'-0"

NOTES:

- 1 REMOVE EXISTING CEILING. REMOVE EXISTING WINDOW. REMOVE EXISTING DOOR AND FRAME.
- 2 CORRIDOR CEILING TILES SHALL BE CAREFULLY REMOVED AND STORED AS REQUIRED TO REMOVE EXISTING DUCTWORK AND INSTALL NEW DUCTWORK. REINSTALL EXISTING UNDAMAGED CEILING TILES AND PROVIDE 20% NEW CEILING TILES TO REPLACE DAMAGED CEILING TILES. CEILING GRID TO REMAIN.
- 3 THE CONTRACTOR IS REQUIRED TO BE CERTIFIED AND LICENSED BY AUTHORITIES HAVING JURISDICTION FOR THE PROPER AND LEGAL REMOVAL, HANDLING, AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS (ACM). THE CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL ORDINANCES, REGULATIONS, AND RULES PERTAINING TO ASBESTOS, INCLUDING ITS STORAGE, TRANSPORTATION, AND DISPOSAL.



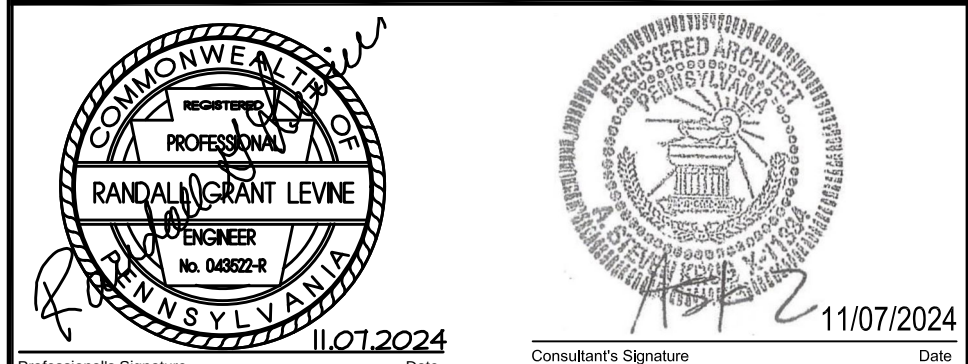
1 EXISTING ROOF FRAMING
A-3 SCALE: 1/8" = 1'-0"
(FOR REFERENCE ONLY)



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS



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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

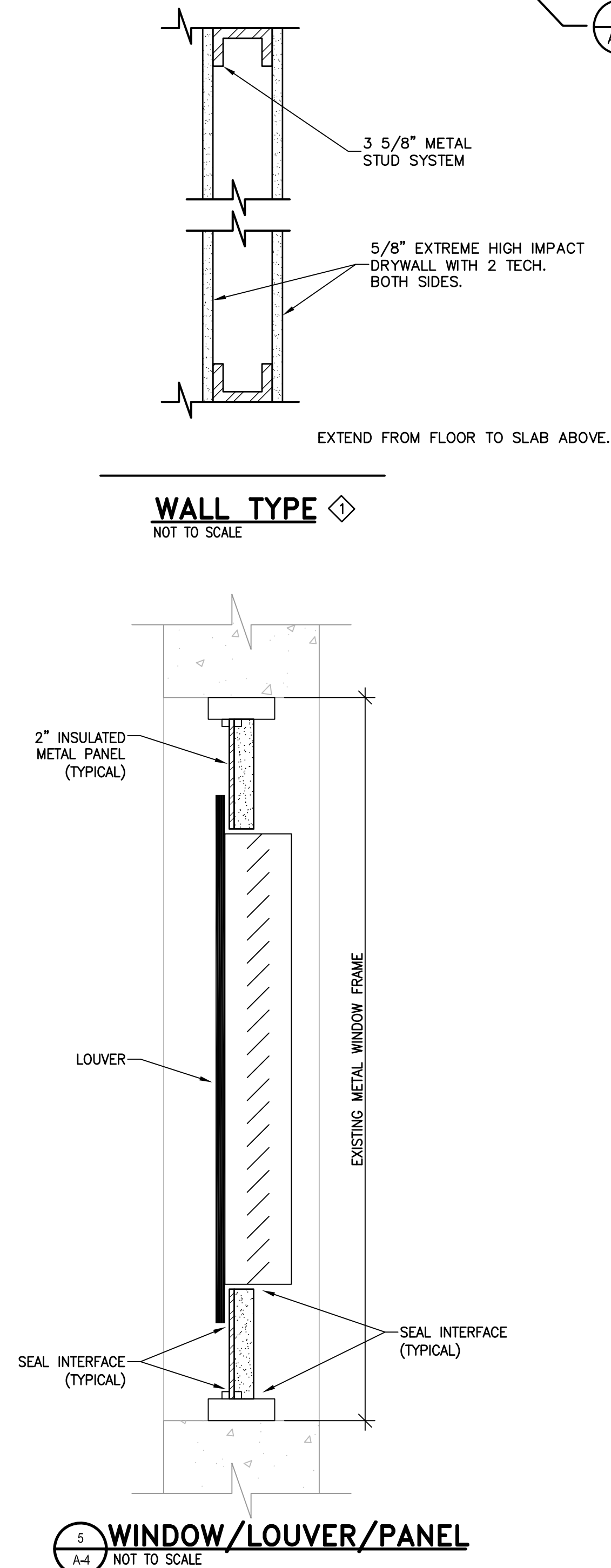
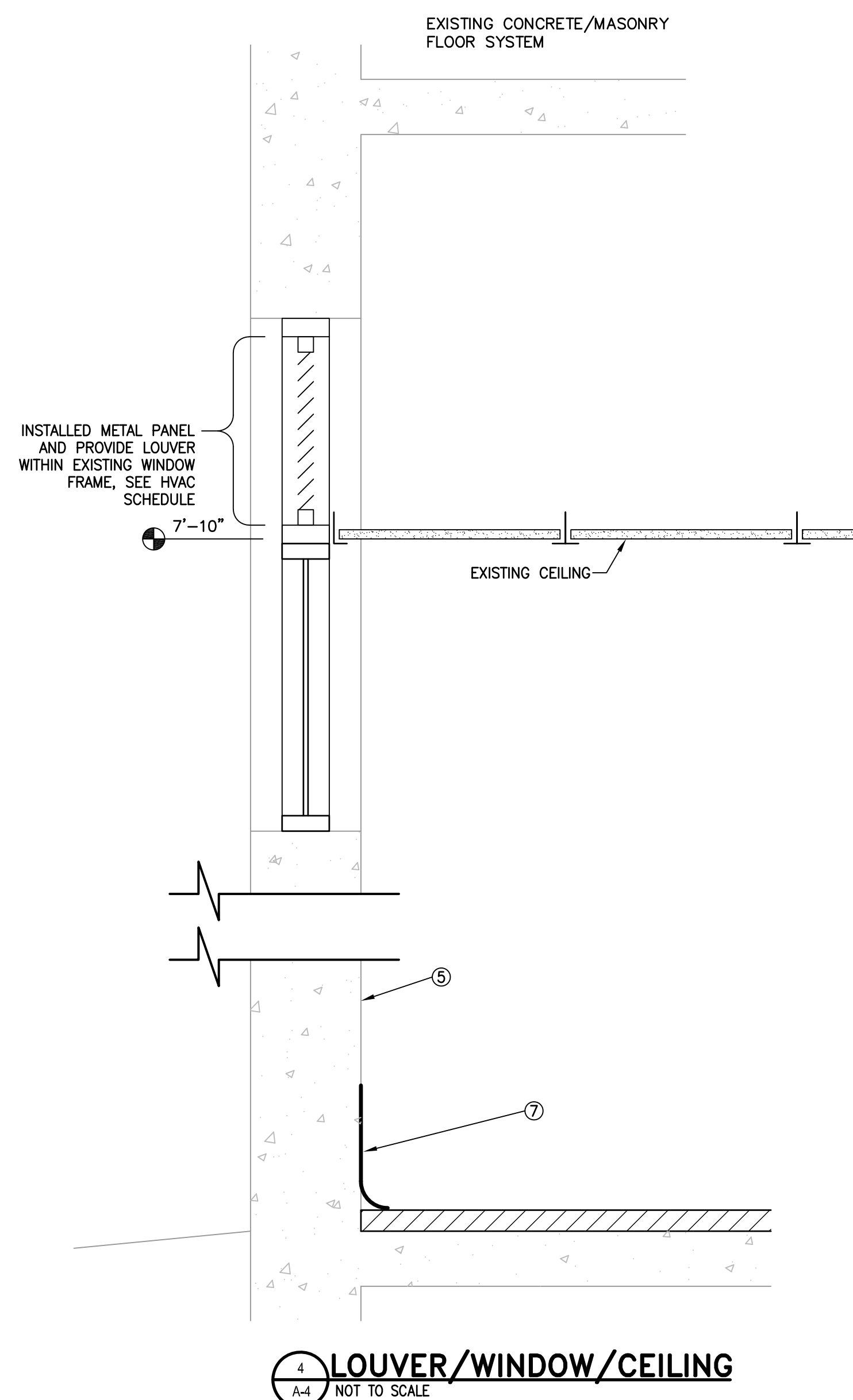
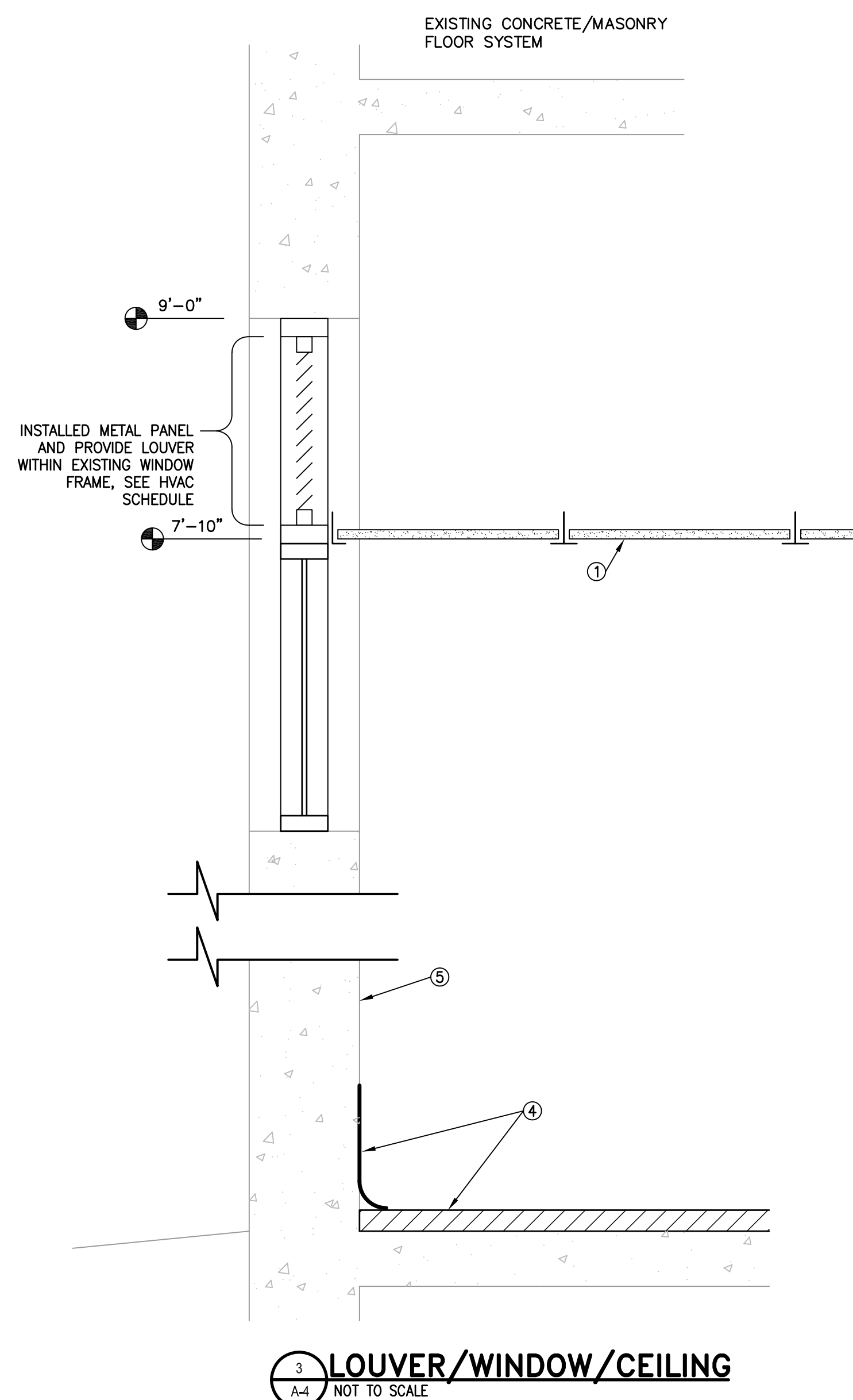
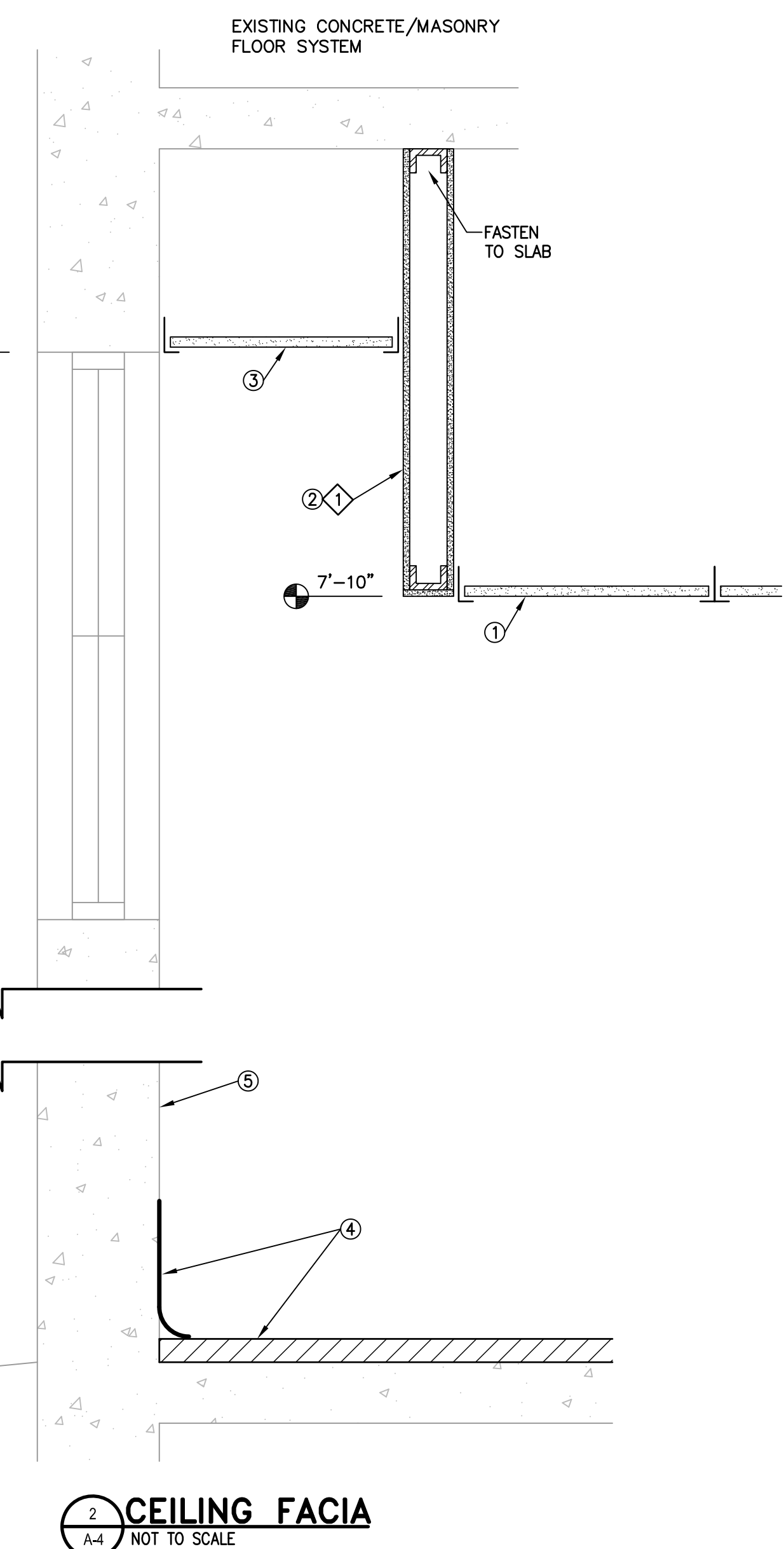
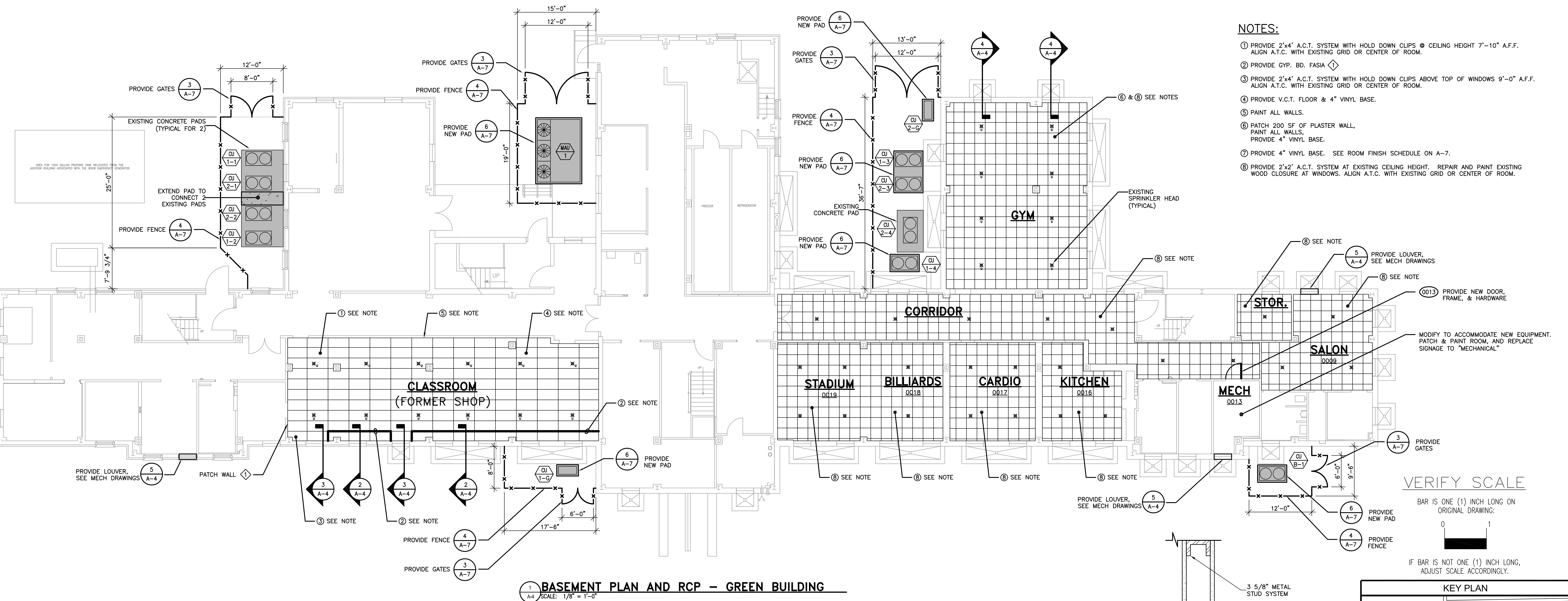
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

GREEN BUILDING SECOND FLOOR PLAN
DEMOLITION

DESIGNED BY:	DATE:	DRAWING NO.:
V.P.	11/07/2024	A-3
CHECKED BY: <td>SCALE:</td>	SCALE:	
A.S.K.	1/8" = 1'-0"	

FOR CONSTRUCTION - 11/07/2024



- NOTES:**
- PROVIDE 2"x4" A.C.T. SYSTEM WITH HOLD DOWN CLIPS @ CEILING HEIGHT 7'-10" A.F.F. ALIGN A.T.C. WITH EXISTING GRID OR CENTER OF ROOM.
 - PROVIDE GYP. BD. FASIA
 - PROVIDE 2"x4" A.C.T. SYSTEM WITH HOLD DOWN CLIPS ABOVE TOP OF WINDOWS 9'-0" A.F.F. ALIGN A.T.C. WITH EXISTING GRID OR CENTER OF ROOM.
 - PROVIDE V.C.T. FLOOR & 4" VINYL BASE.
 - PAINT ALL WALLS.
 - PATCH 200 SF OF PLASTER WALL. PAINT ALL WALLS. PROVIDE 4" VINYL BASE.
 - PROVIDE 4" VINYL BASE. SEE ROOM FINISH SCHEDULE ON A-7.
 - PROVIDE 2"x2" A.C.T. SYSTEM AT EXISTING CEILING HEIGHT. REPAIR AND PAINT EXISTING WOOD CLOSURE AT WINDOWS. ALIGN A.T.C. WITH EXISTING GRID OR CENTER OF ROOM.

VERIFY SCALE

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

0 1

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

KEY PLAN

RESERVOIR ROAD

GREEN BLDG.

COPPER BEECH DRIVE

STATE HOSPITAL DRIVE

REED BLDG.

COPPER BEECH DRIVE

PROJECT LOCATION

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.
AS BUILT REVISIONS			

PROFESSIONAL'S SIGNATURE: 11/07/2024

CONSULTANT'S SIGNATURE: 11/07/2024

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES

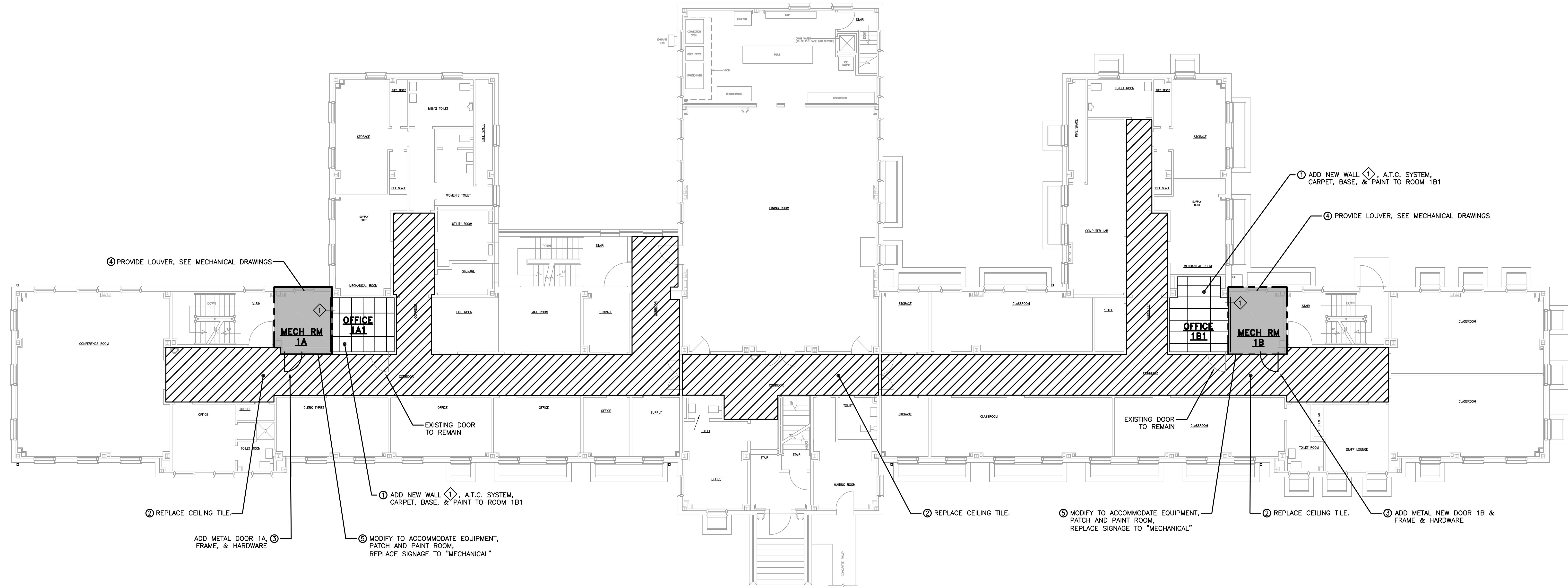
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

GREEN BUILDING BASEMENT PLAN
AND RCP

DESIGNED BY:	DATE:	DRAWING NO.:
V.P.	11/07/2024	A-4
A.S.K.	SCALE:	

1/8" = 1'-0"

FOR CONSTRUCTION - 11/07/2024



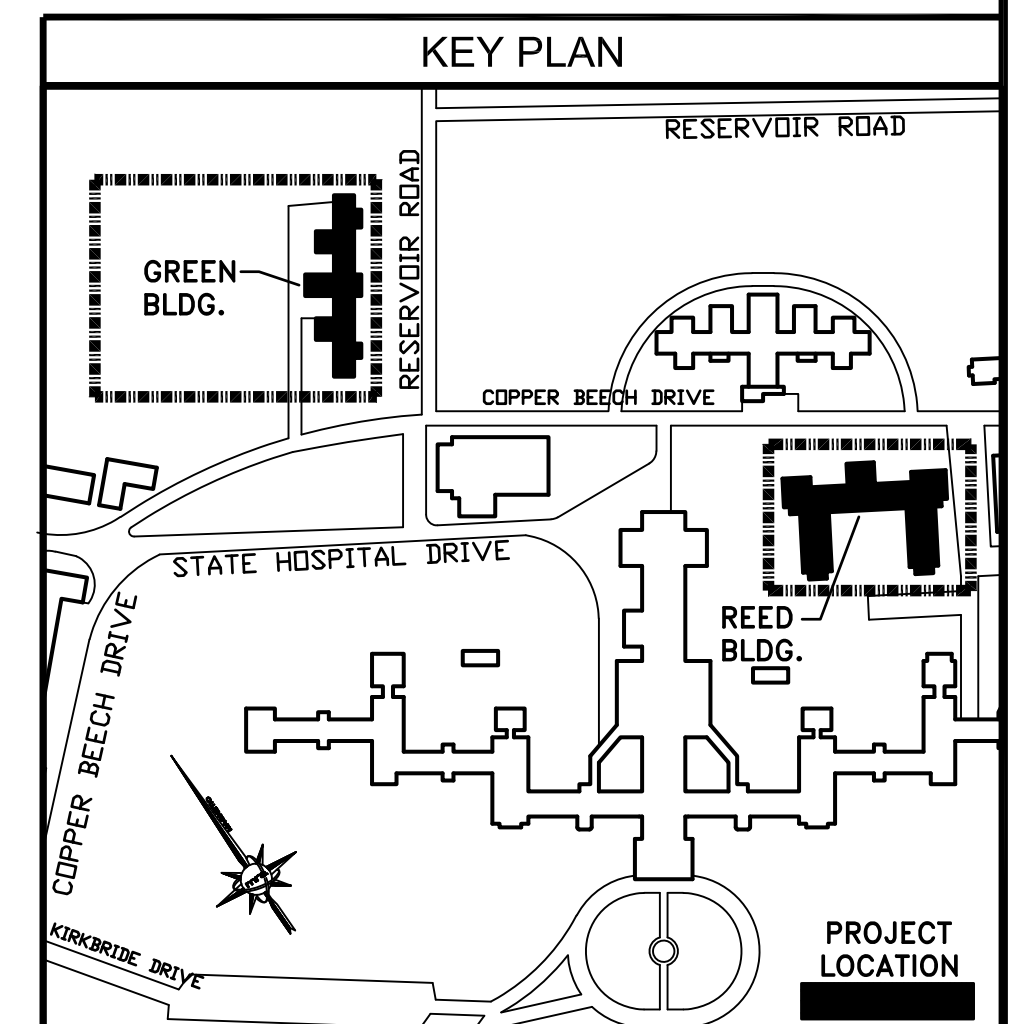
1 FIRST FLOOR PLAN AND RCP – GREEN BUILDING
A-5 SCALE: 1/8" = 1'-0"

NOTES:

- 1 PROVIDE WALL  A.C.T. SYSTEM WITH HOLD DOWN CLIPS, PAINT WALLS, CARPET, & VINYL BASE. ALIGN WALL WITH EDGE OF COLUMN. ALIGN A.T.C. WITH EXISTING GRID OR CENTER OF ROOM.
- 2 CORRIDOR CEILING TILES SHALL BE CAREFULLY REMOVED AND STORED AS REQUIRED TO REMOVE EXISTING DUCTWORK AND INSTALL NEW DUCTWORK. REINSTALL EXISTING UNDAMAGED CEILING TILES WITH HOLD DOWN CLIPS AND PROVIDE 20% NEW CEILING TILES TO REPLACE DAMAGED CEILING TILES. CEILING GRID TO REMAIN.
- 3 PROVIDE METAL DOOR FRAME & HARDWARE.
- 4 PROVIDE LOUVER, SEE MECHANICAL DRAWINGS.
- 5 MODIFY TO ACCOMMODATE EQUIPMENT, PATCH AND PAINT ROOM, REPLACE SIGNAGE TO "MECHANICAL".
- 6 SEE ROOM FINISH SCHEDULE ON A-7.

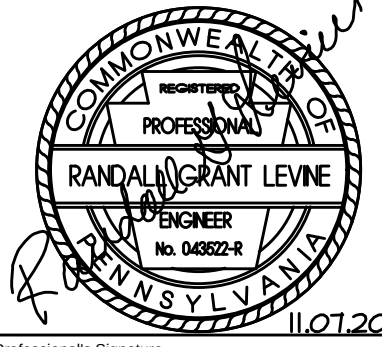
VERIFY SCALE

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



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS			
	Professional's Signature	11/07/2024	Date
	Consultant's Signature	11/07/2024	Date

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

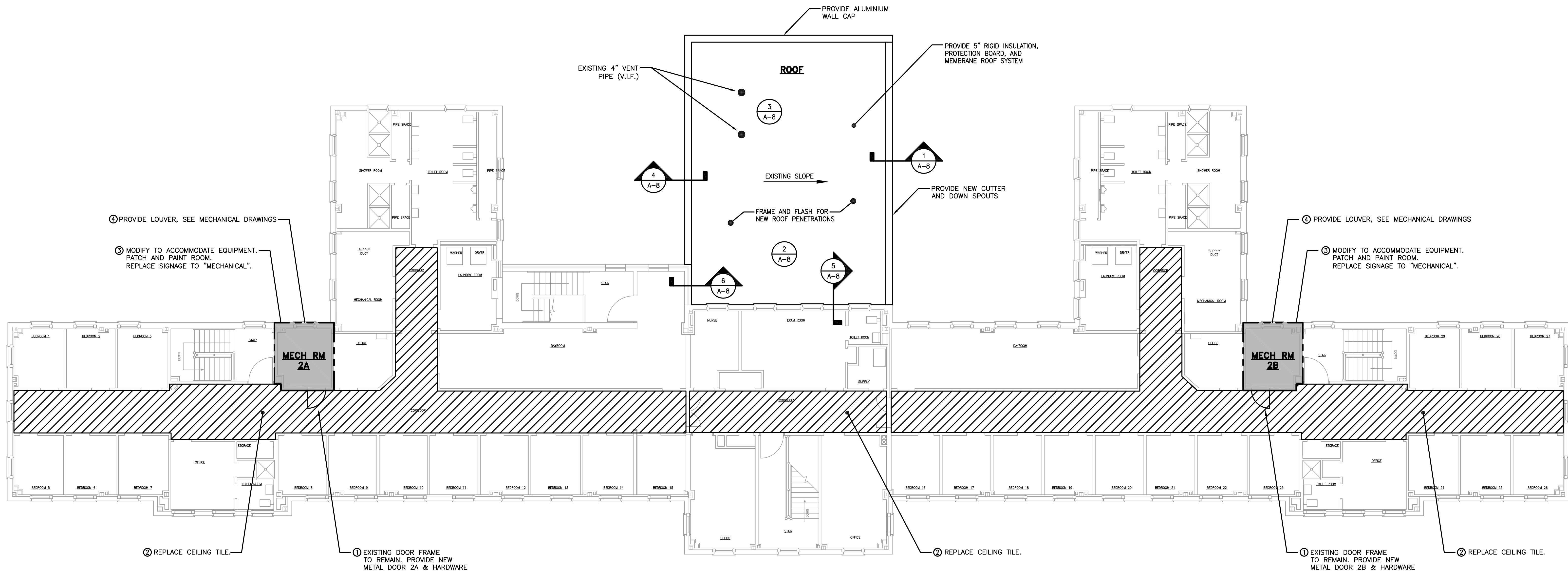
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

GREEN BUILDING FIRST FLOOR PLAN
AND RCP

DESIGNED BY: V.P.	DATE: 11/07/2024	DRAWING NO.: A-5
CHECKED BY: A.S.K.	SCALE: 1/8" = 1'-0"	

FOR CONSTRUCTION - 11/07/2024



VERIFY SCALE

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



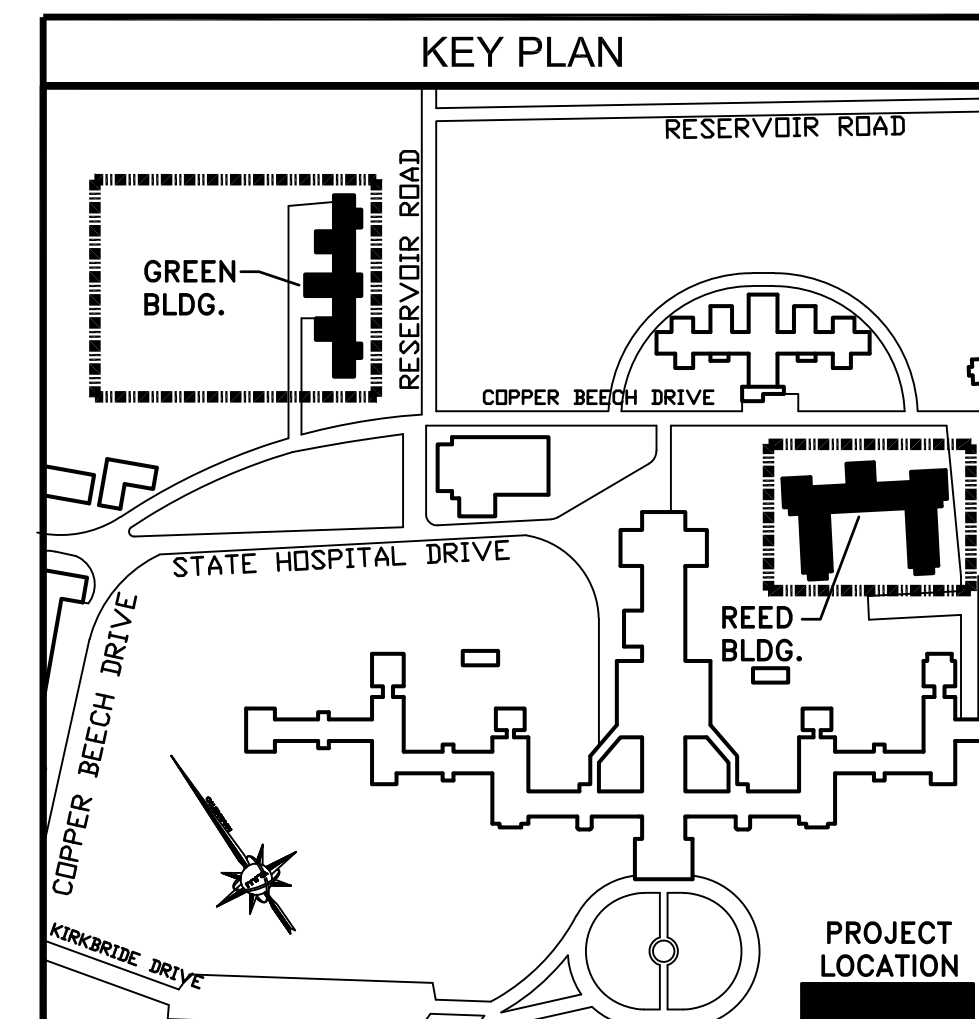
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.

1 SECOND FLOOR PLAN - GREEN BUILDING

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

NOTES:

- EXISTING DOOR FRAME TO REMAIN. PROVIDE NEW METAL DOOR & HARDWARE.
- CORRIDOR CEILING TILES SHALL BE CAREFULLY REMOVED AND STORED AS REQUIRED TO REMOVE EXISTING DUCTWORK AND INSTALL NEW DUCTWORK. REINSTALL EXISTING UNDAMAGED CEILING TILES WITH HOLD DOWN CLIPS AND PROVIDE 20% NEW CEILING TILES TO REPLACE DAMAGED CEILING TILES. CEILING GRID TO REMAIN.
- MODIFY TO ACCOMMODATE EQUIPMENT, PATCH AND PAINT ROOM, REPLACE SIGNAGE TO "MECHANICAL".
- PROVIDE LOUVER, SEE MECHANICAL DRAWINGS.
- THE CONTRACTOR IS REQUIRED TO BE CERTIFIED AND LICENSED BY AUTHORITIES HAVING JURISDICTION FOR THE PROPER AND LEGAL REMOVAL, HANDLING, AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS (ACM). THE CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL ORDINANCES, REGULATIONS, AND RULES PERTAINING TO ASBESTOS, INCLUDING ITS STORAGE, TRANSPORTATION, AND DISPOSAL.



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

Professional's Signature: <i>Randall Grant Levine</i>	Consultant's Signature: <i>Martin Rogers</i>
Date: 11/07/2024	Date: 11/07/2024

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

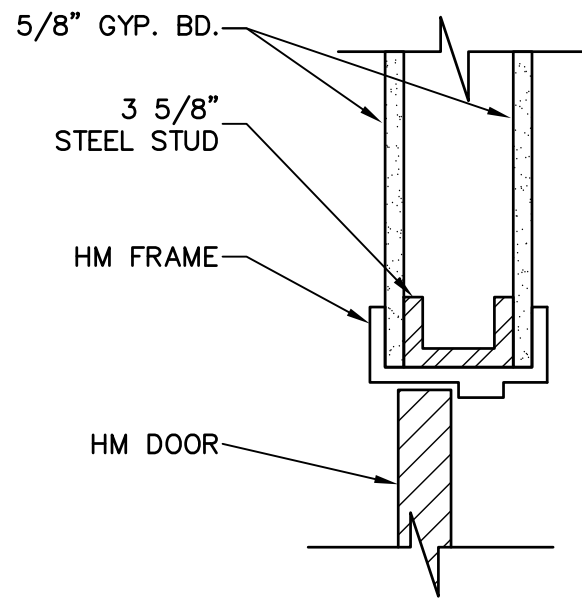
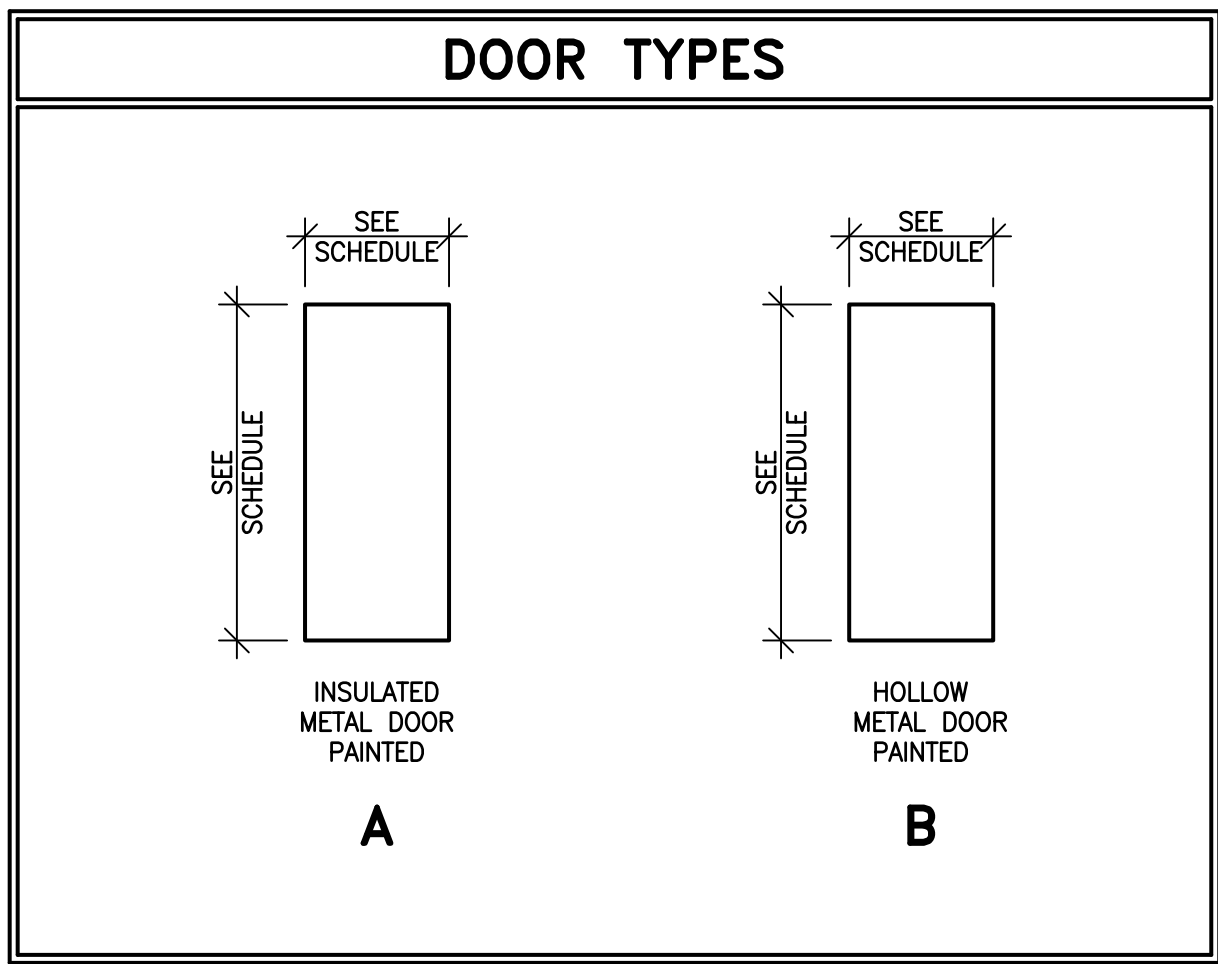
NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

GREEN BUILDING SECOND FLOOR PLAN

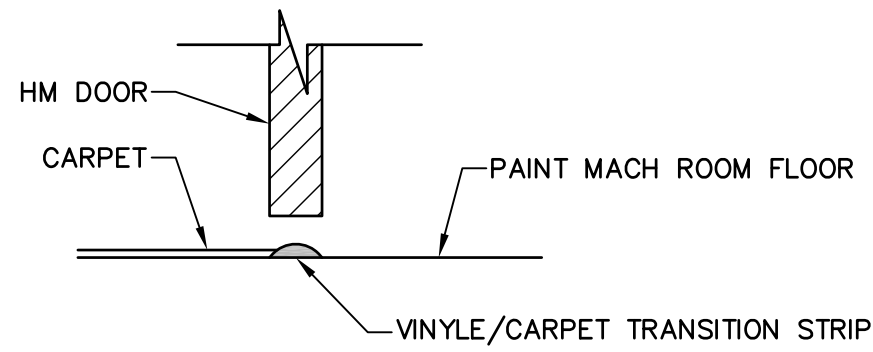
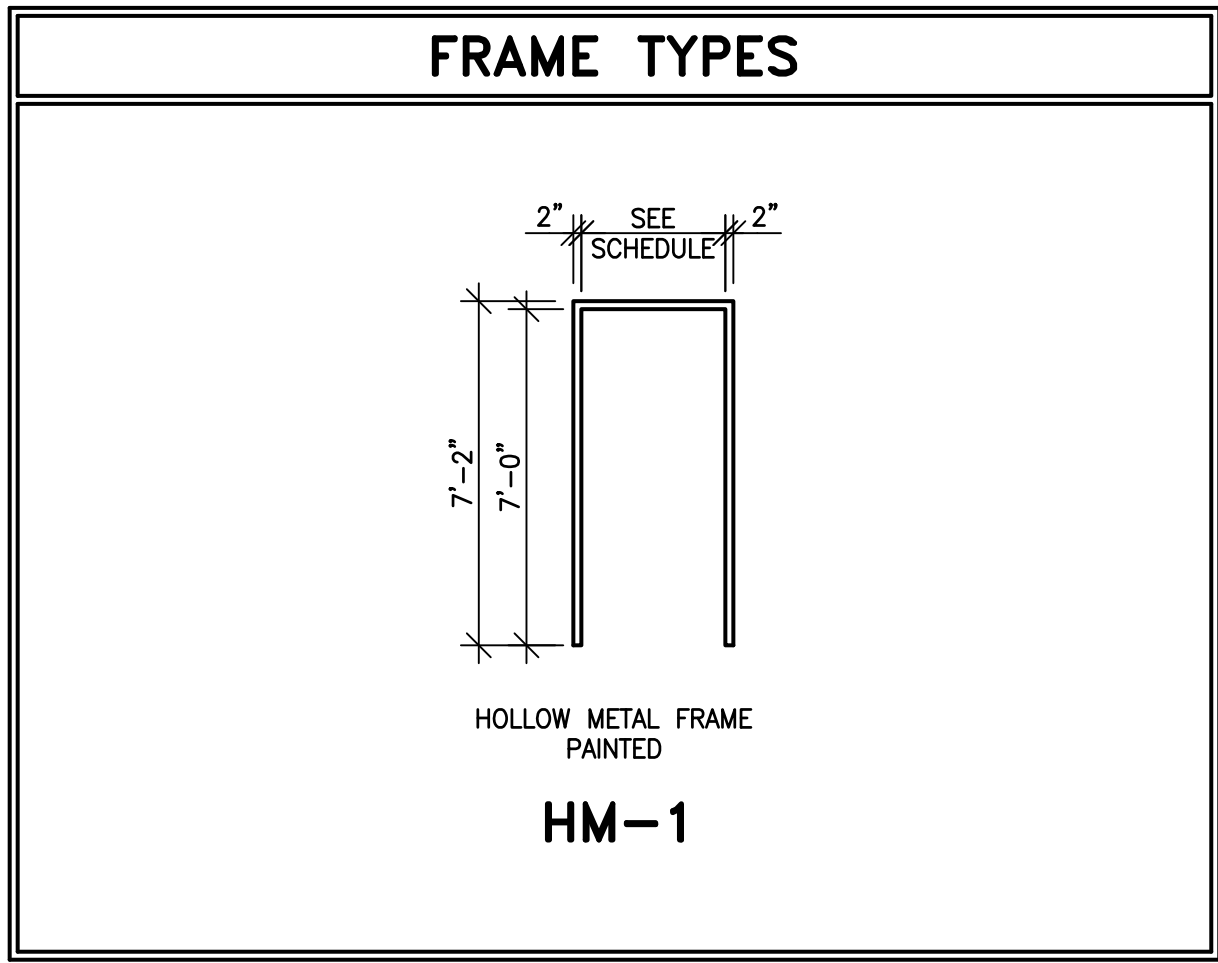
DESIGNED BY: V.P.	DATE: 11/07/2024	DRAWING NO.: A-6
CHECKED BY: A.S.K.	SCALE: 1/8" = 1'-0"	

FOR CONSTRUCTION - 11/07/2024

DOOR – FRAME – HARDWARE SCHEDULE													
No.	DOOR						FRAME						REMARKS
	DIMENSIONS			TYPE	MATERIAL	FINISH	MATERIAL	FINISH	TYPE	DETAIL			
	WIDTH	HEIGHT	THICKNESS							HEAD	JAMB	SILL	
0013	3'-0"	6'-8"	1 3/4"	B	HM	PAINT	HM	PAINT	HM	1	1	2	MECHANICAL ROOM HARDWARE. BEST KEY LOCKING SYSTEM. 1 HR. FIRE RATED
1 A	3'-0"	6'-8"	1 3/4"	B	HM	PAINT	HM	PAINT	HM	1	1	2	MECHANICAL ROOM HARDWARE. BEST KEY LOCKING SYSTEM. 1 HR. FIRE RATED
1 B	3'-0"	6'-8"	1 3/4"	B	HM	PAINT	HM	PAINT	HM	1	1	2	MECHANICAL ROOM HARDWARE. BEST KEY LOCKING SYSTEM. 1 HR. FIRE RATED
2 A	3'-0"	6'-8"	1 3/4"	B	HM	PAINT	HM	PAINT	HM	1	1	2	MECHANICAL ROOM HARDWARE. BEST KEY LOCKING SYSTEM. 1 HR. FIRE RATED
2 B	3'-0"	6'-8"	1 3/4"	B	HM	PAINT	HM	PAINT	HM	1	1	2	MECHANICAL ROOM HARDWARE. BEST KEY LOCKING SYSTEM. 1 HR. FIRE RATED

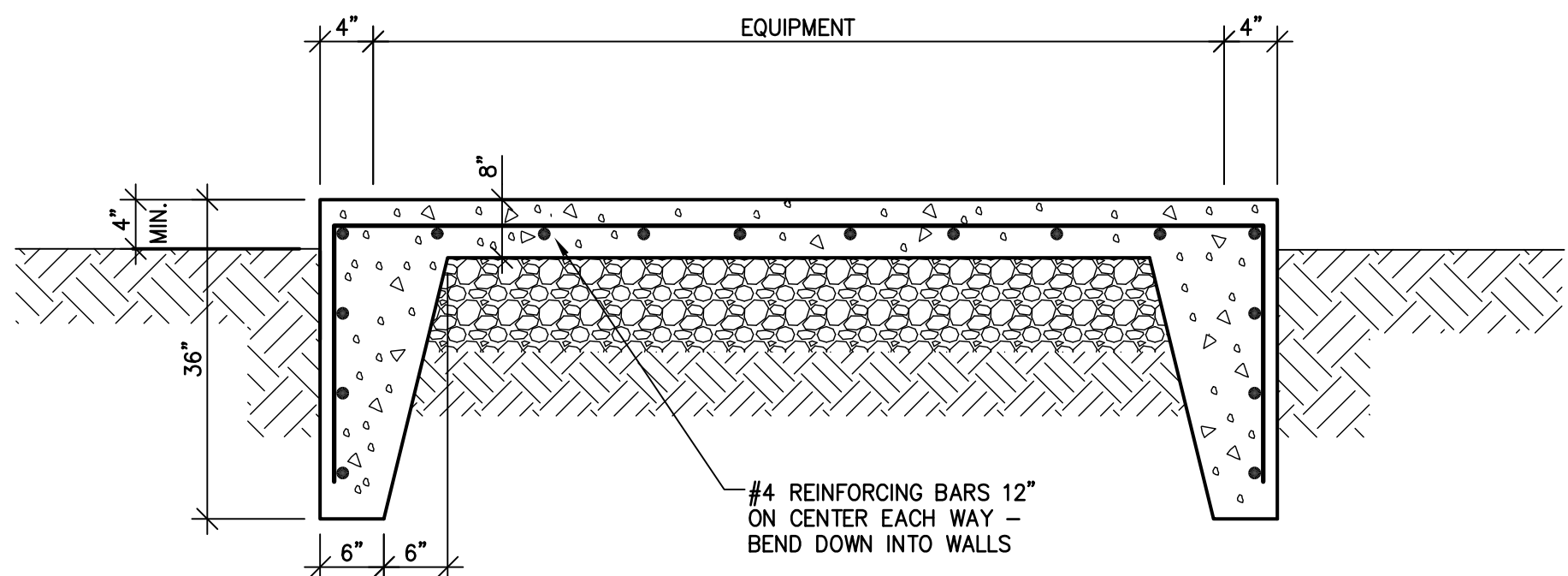


1 HEAD/JAMB DETAIL 1
A-7 NOT TO SCALE



2 SILL DETAIL 1
A-7 NOT TO SCALE

ROOM FINISH SCHEDULE									
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	NOTES
				NORTH	EAST	SOUTH	WEST		
SHOP	CLASSROOM	VCT	4" VINYL	PAINT	PAINT	PAINT	PAINT	A.C.T. 2 W/HOLD DOWN CLIPS	
GYM	GYM	EXISTING	4" VINYL	PAINT	PAINT	PAINT	PAINT	A.C.T. 1	
STOR.	STORAGE	-	-	-	-	-	-	A.C.T. 1	
0009	SALON	-	-	-	-	-	-	A.C.T. 1	
0013	MECH ROOM	EPOXY PAINT	4" VINYL	PAINT	PAINT	PAINT	PAINT	PAINT UNDERSIDE OF SLAB	
0016	KITCHEN	-	-	-	-	-	-	A.C.T. 1	
0017	CARDIO	-	-	-	-	-	-	A.C.T. 1	
0018	BILLIARDS	-	-	-	-	-	-	A.C.T. 1	
0019	STADIUM	-	-	-	-	-	-	A.C.T. 1	
1A	MECH ROOM	EPOXY PAINT	4" VINYL	PAINT	PAINT	PAINT	PAINT	PAINT UNDERSIDE OF SLAB	
1A1	OFFICE	CARPET	4" VINYL	PAINT	PAINT	PAINT	PAINT	A.C.T. 2 W/HOLD DOWN CLIPS	
1B	MECH ROOM	EPOXY PAINT	4" VINYL	PAINT	PAINT	PAINT	PAINT	PAINT UNDERSIDE OF SLAB	
1B1	OFFICE	CARPET	4" VINYL	PAINT	PAINT	PAINT	PAINT	A.C.T. 2 W/HOLD DOWN CLIPS	
2A	MECH ROOM	EPOXY PAINT	4" VINYL	PAINT	PAINT	PAINT	PAINT	PAINT UNDERSIDE OF SLAB	
2B	MECH ROOM	EPOXY PAINT	4" VINYL	PAINT	PAINT	PAINT	PAINT	PAINT UNDERSIDE OF SLAB	



NOTE:
MAKE CONCRETE PAD 4" LARGER THAN EQUIPMENT ON ALL SIDES.

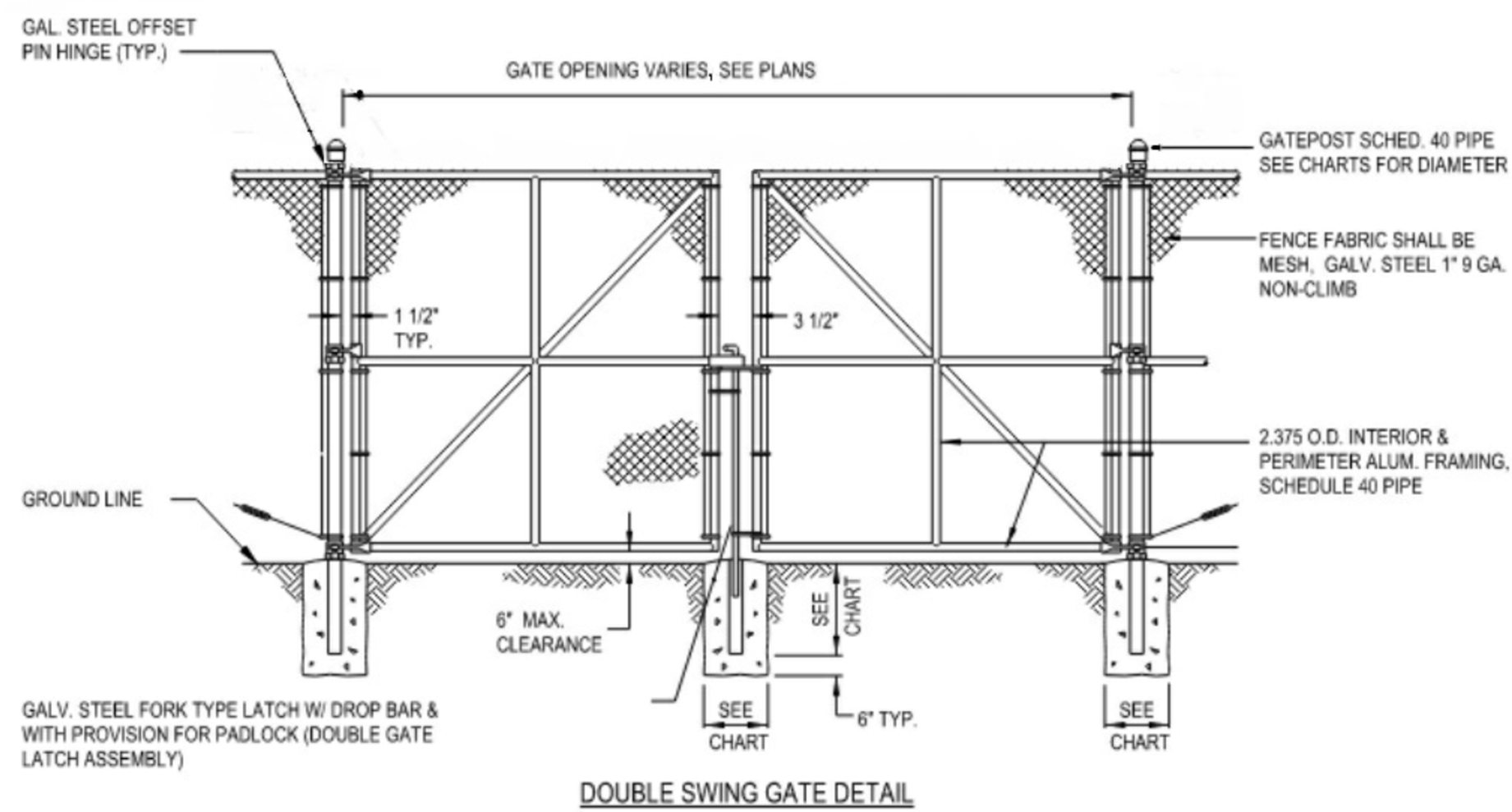
6 TYPICAL OUTDOOR EQUIPMENT PAD DETAIL
A-7 NOT TO SCALE

VERIFY SCALE

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



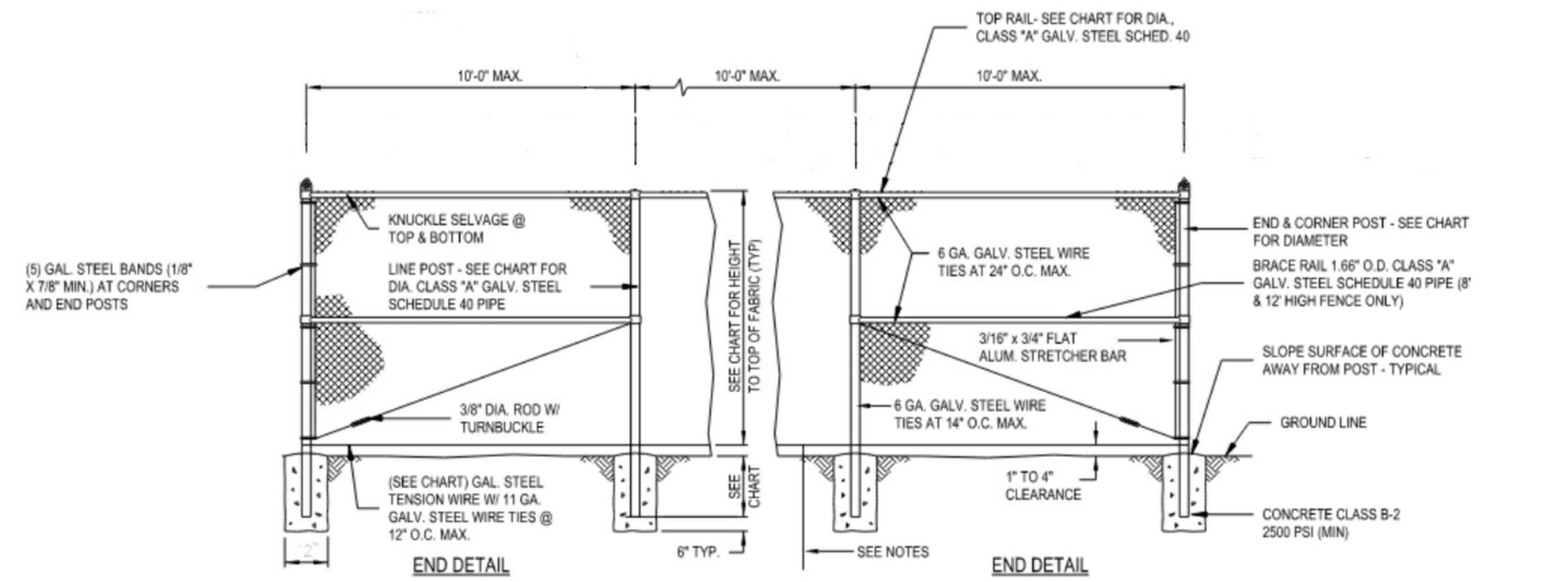
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.



DOUBLE SWING GATE DETAIL

- NOTES:
- FENCE SHALL HAVE A 1/0 COPPER GROUND CONDUCTOR DIRECTLY UNDER THE FENCE PERIMETER (16" DEEP)
 - GROUND RODS ARE TO BE DRIVEN AT ALL CORNERS AND IN THE MIDDLE TO THE CLOSEST POLE OF ANY FENCE LENGTH GREATER THAN 200 FEET. AT THESE LOCATIONS, THE 1/0 COPPER GROUND CONDUCTOR, THE POLE, THE FENCE MESH AND THE BARBED WIRE STRANDS SHALL BE BONDED TOGETHER AND ARE TO BE CONNECTED TO THE GROUND RODS.
 - EACH GATE POLE SHALL HAVE A GROUND ROD, BONDED TO THE GROUND WIRE AND CONNECTED TO THE POLE. BONDED TO THE FENCE MESH AND THE BARBED WIRE STRANDS.
 - GATE POLES SHALL HAVE A COPPER STRAP CONNECTED TO THE GATE SWING STRUCTURE AND BONDED TO THE GATE SWING. THE WIRE MESH AND THE BARBED WIRE STRANDS.

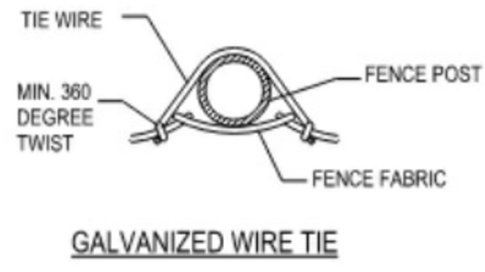
3 DOUBLE SWING GATE ELEVATION
A-7 NOT TO SCALE



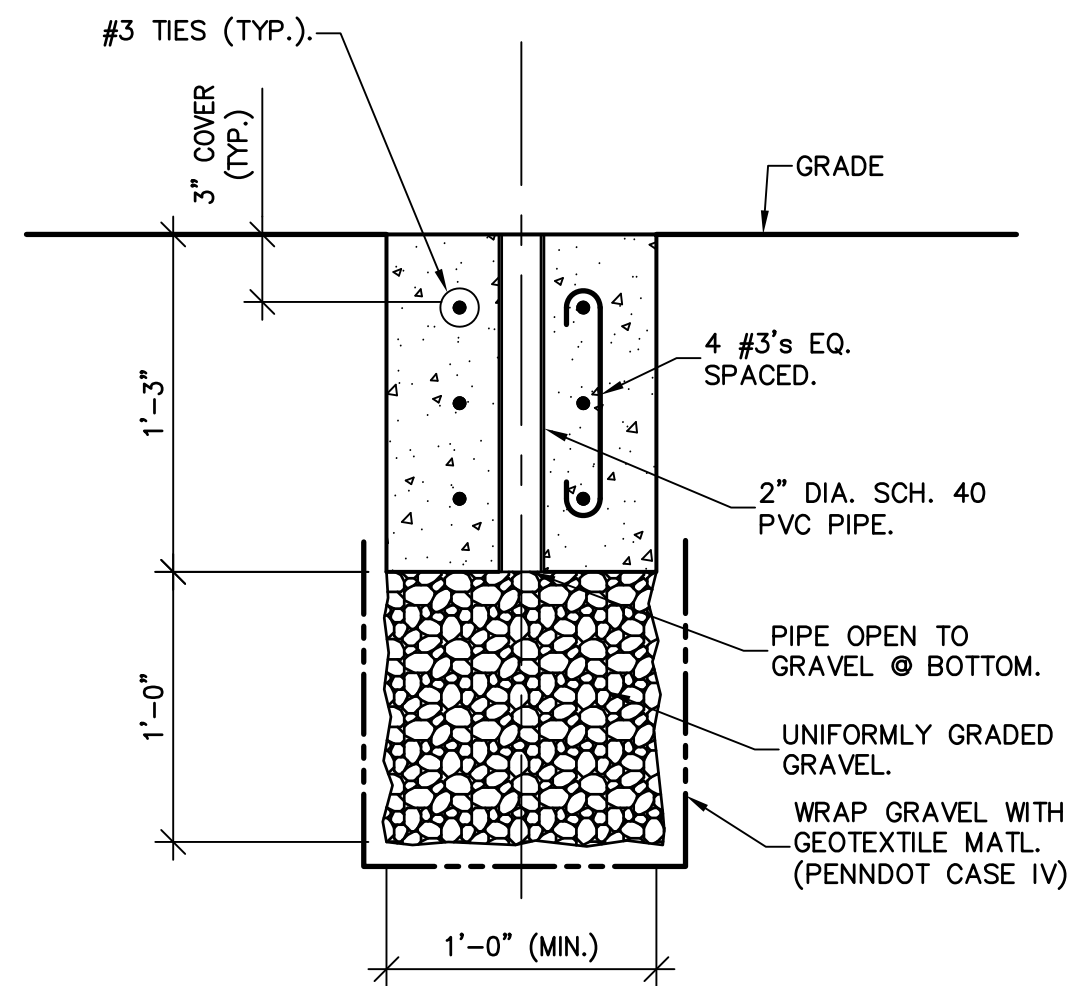
INTERMEDIATE DETAIL

HEIGHT	LINE POSTS	END POSTS	FOOTERS	TOP RAIL	TENSION WIRE	MESH	GATES
8'	2-1/2"	3"	12" x 42"	1-5/8"	6 GA.	1" 9 GA.	12" x 2 O.D. (E. III) 4" POSTS 3 HINGES 18" x 42" FTR.

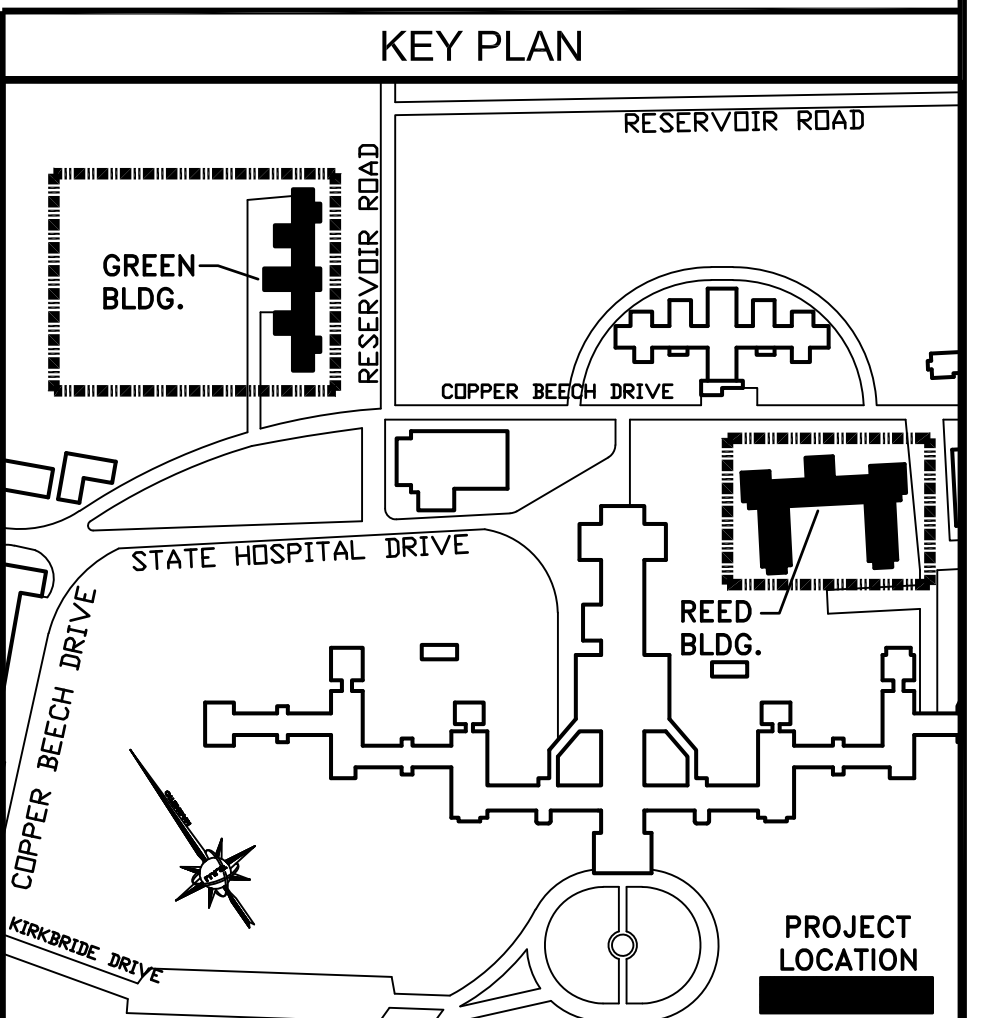
- INCLUDE BRACES @ MID HEIGHT ON 8' AND 12' HIGH FENCE.
USE DROP RODS FOR CLOSE & OPEN OPERATION



4 NEW FENCE ELEVATIONS
A-7 NOT TO SCALE



**DETAIL "A" - BELOW GRADE
GRADE INSERT FOR GATE PIN**
A-7 NOT TO SCALE



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

11/07/2024

martinrogers
ENGINEERING CONSULTANTS
135 N. Tremont Park Ave. - Millersburg, PA 16768
1.570.826.1000 | 1.570.829.0888 | www.mrtspc.com

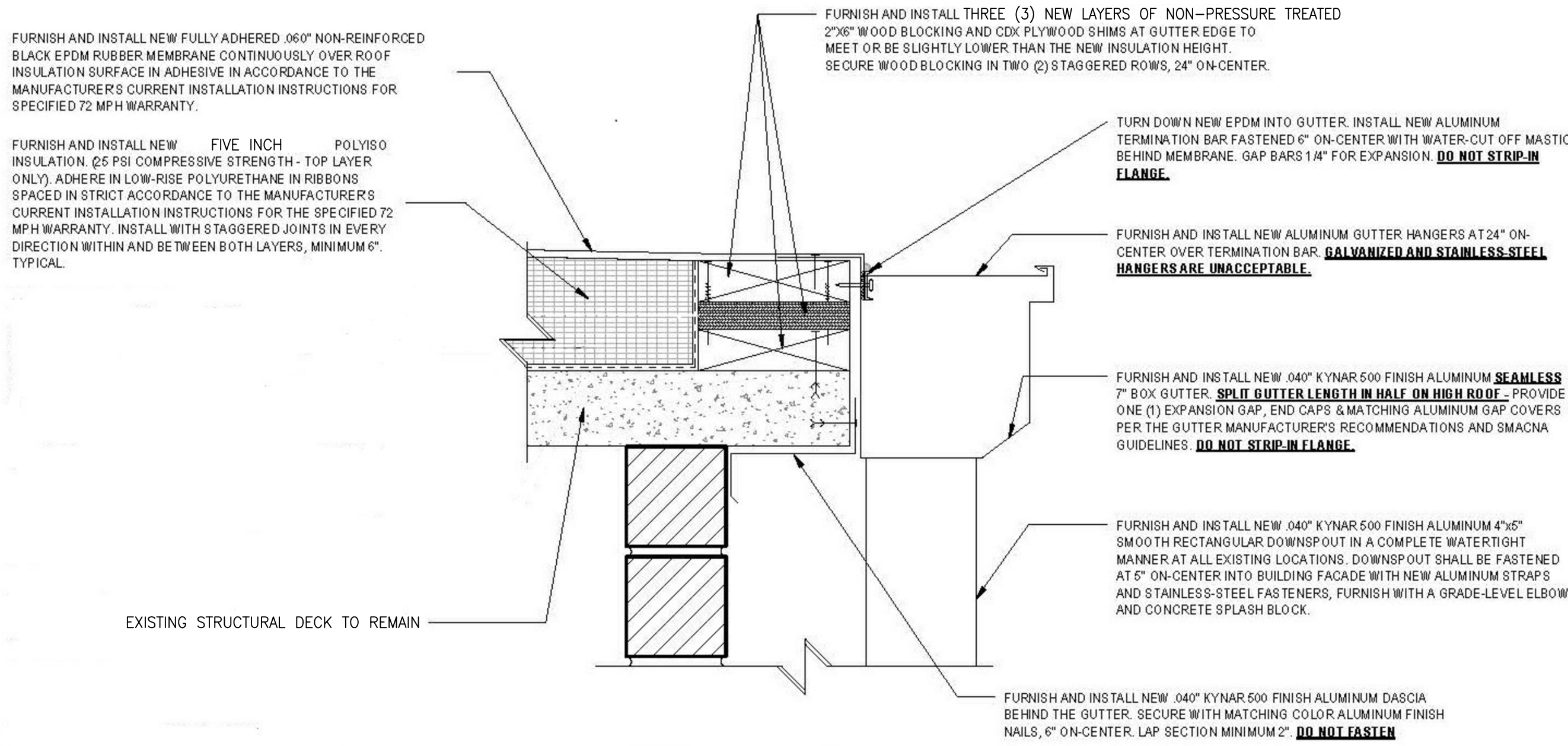
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

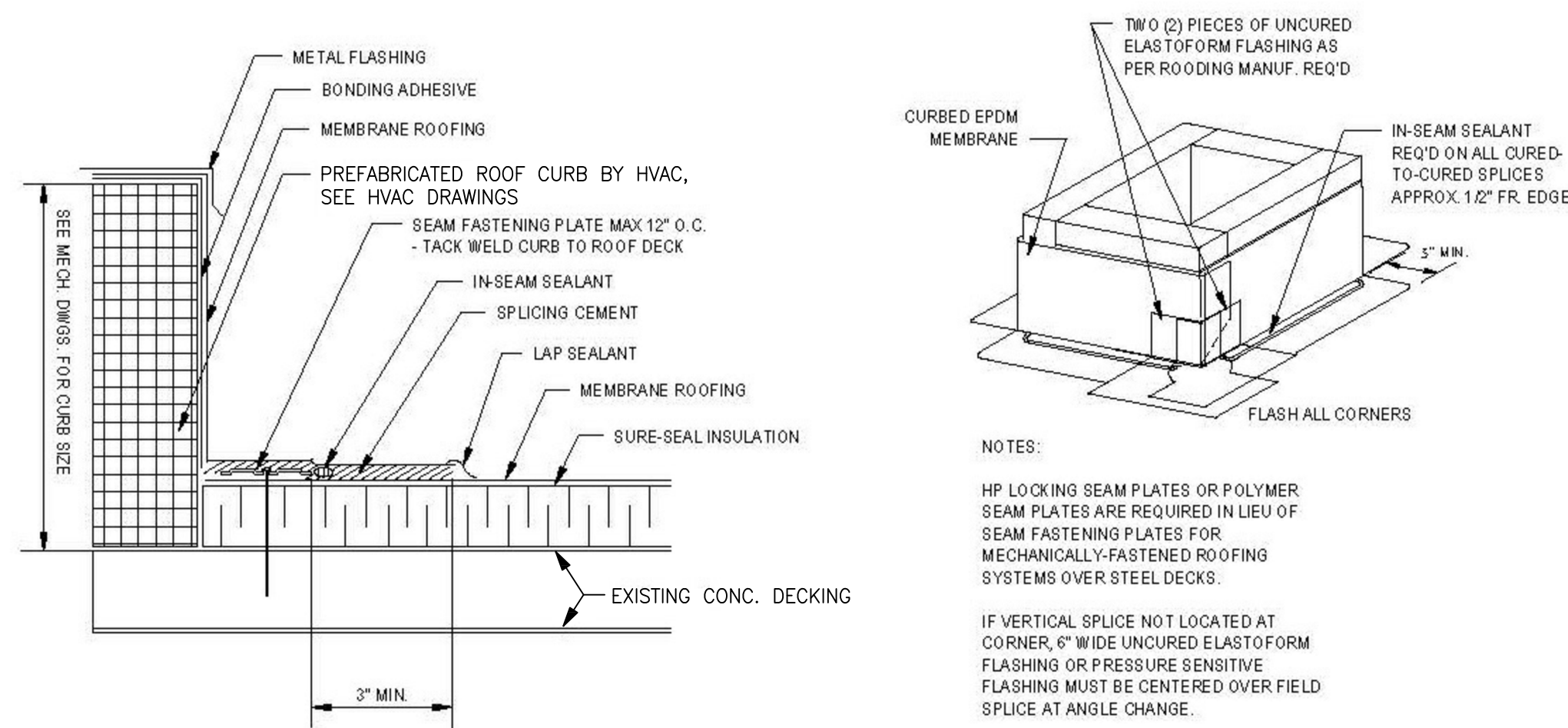
NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

DOOR SCHEDULE
AND DETAILS

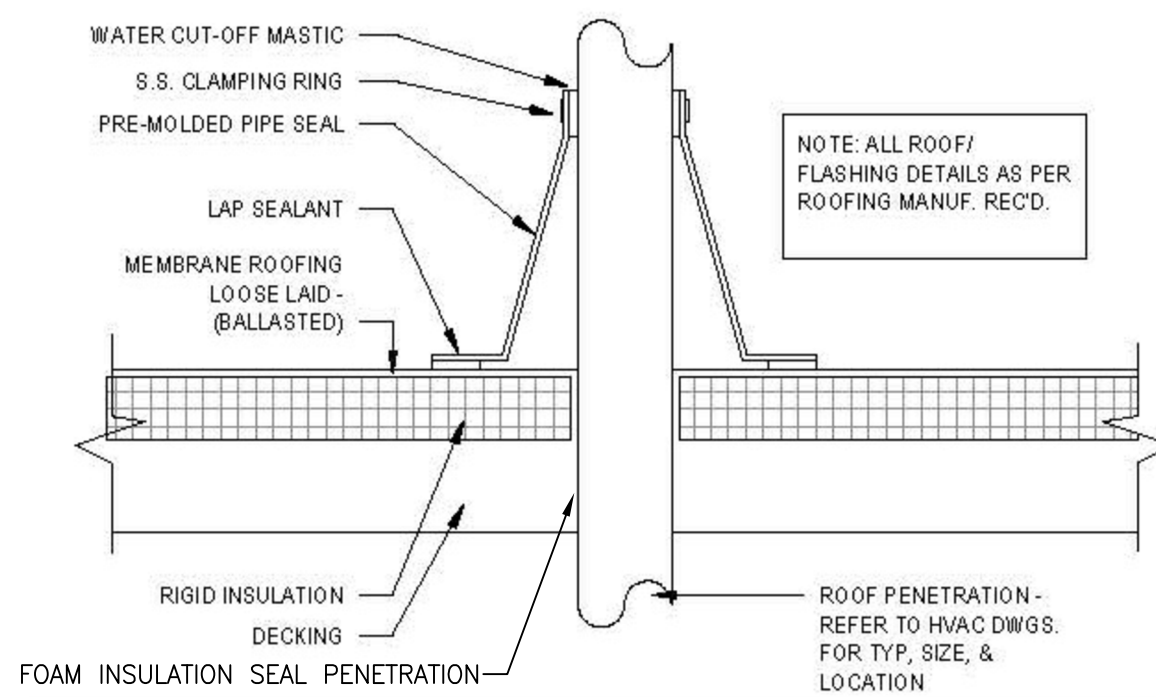
DESIGNED BY:	DATE:	DRAWING NO.:
V.P.	11/07/2024	A-7
CHECKED BY:	SCALE:	
A.S.K.	AS NOTED	



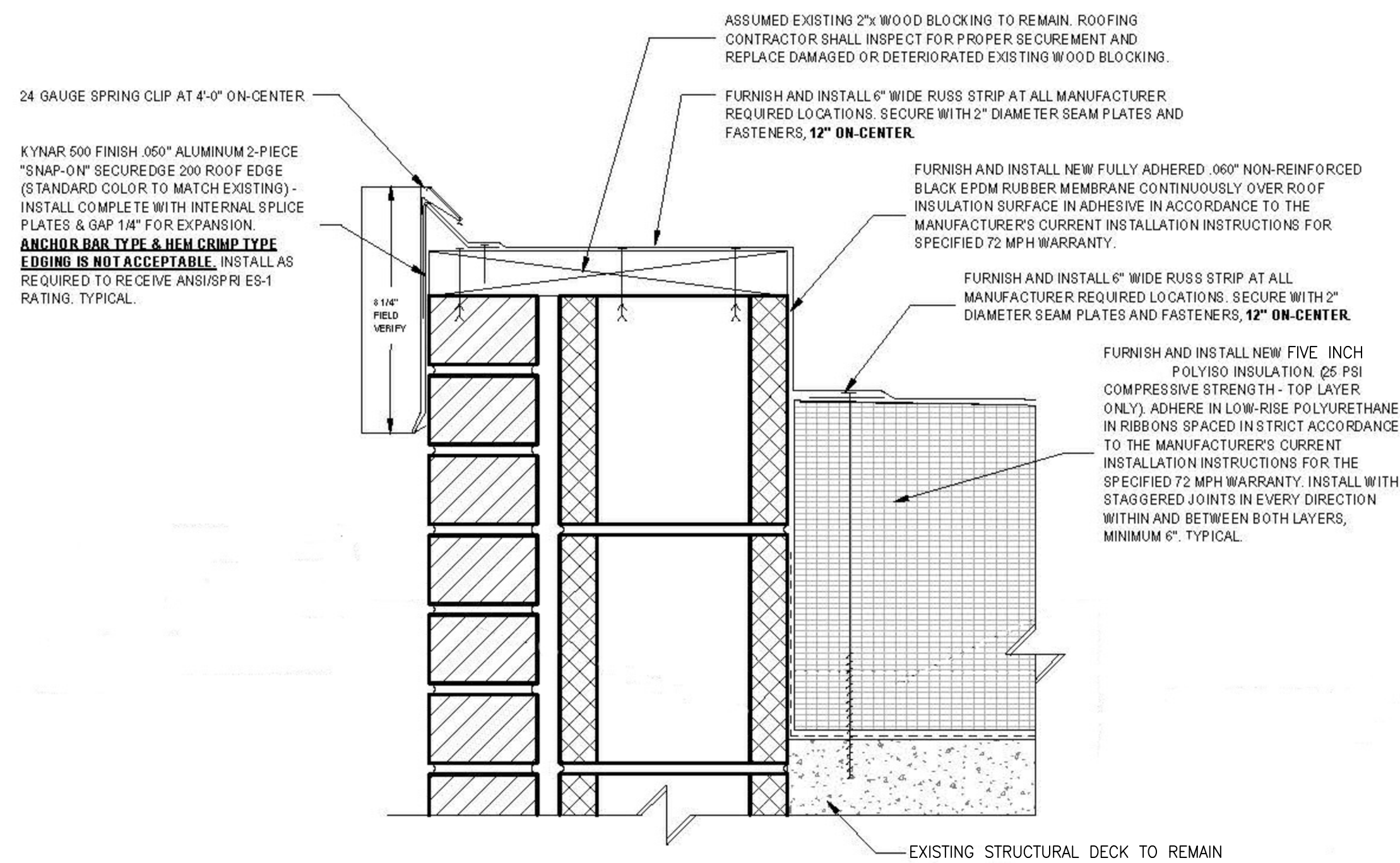
1 GUTTER DETAIL
A-B NOT TO SCALE



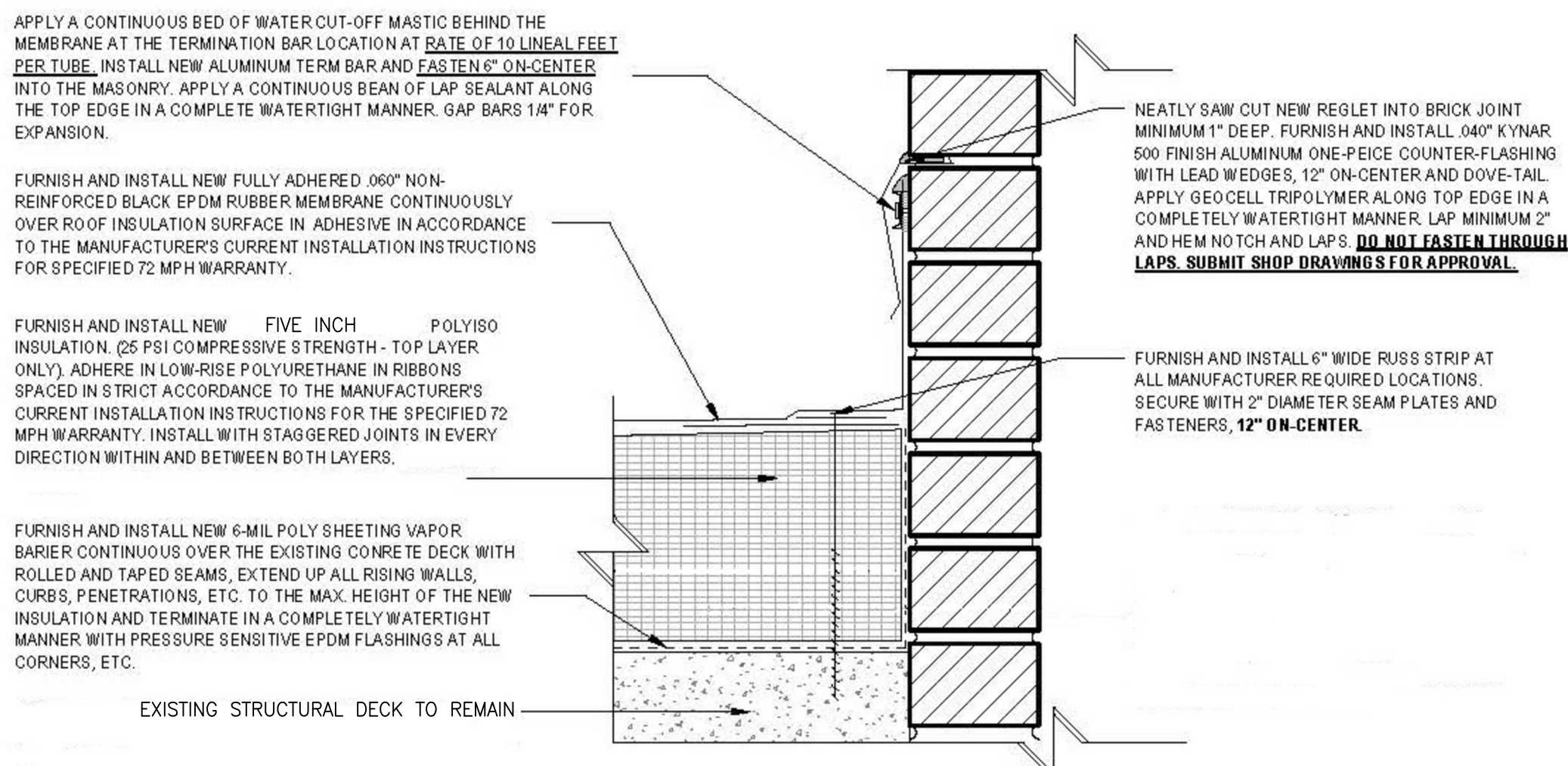
2 DUCT PENETRATION AND EQUIPMENT CURB FLASHING
A-B NOT TO SCALE



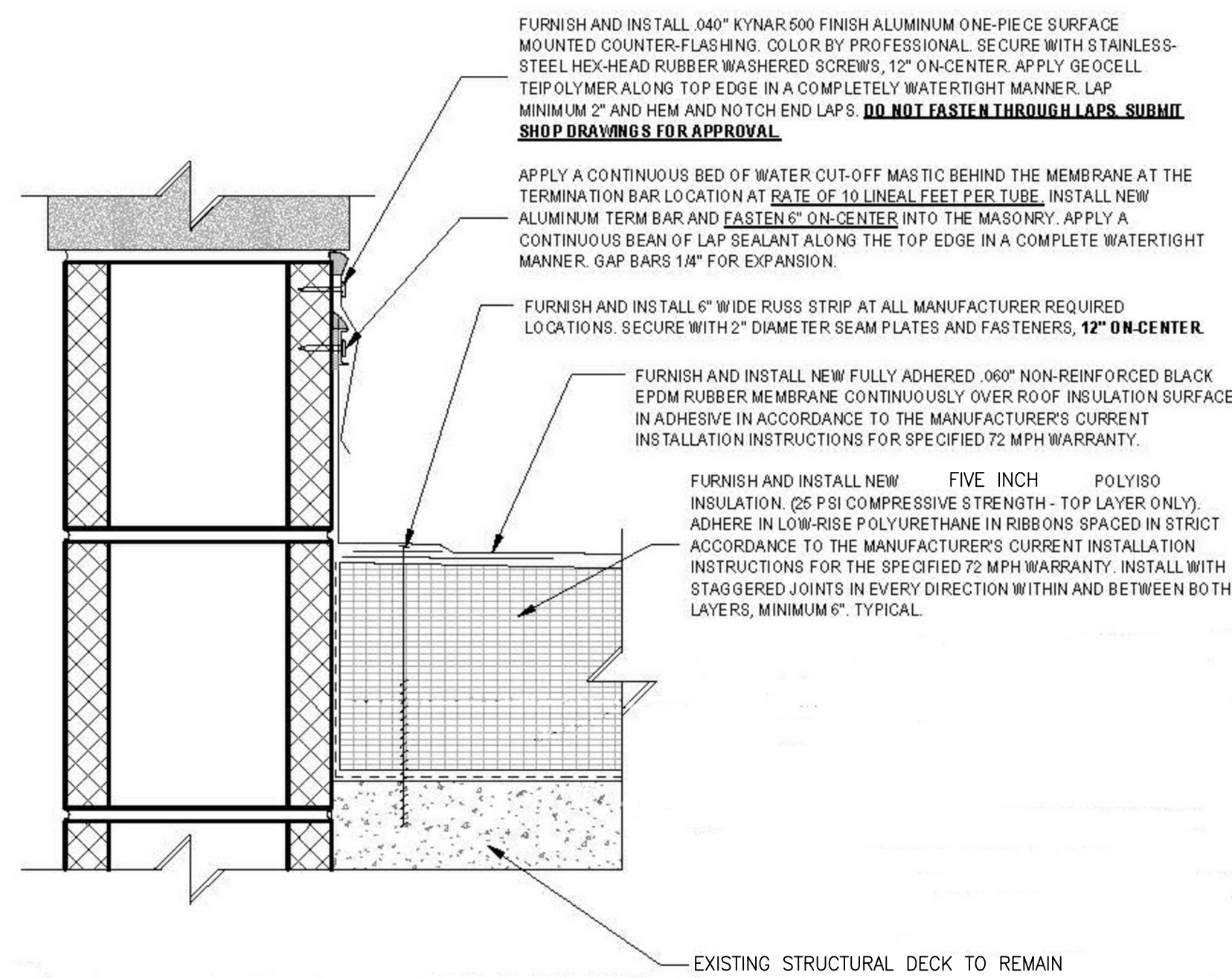
3 ROOF PENETRATION DETAIL
A-B NOT TO SCALE



4 GRAVEL STOP EDGE - TYPICAL
A-B NOT TO SCALE



5 ONE-PIECE COUNTER FLASHING
A-B NOT TO SCALE



6 SURFACE MNTD. COUNTER FLASHING
A-B NOT TO SCALE

GENERAL ROOFING NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, PENETRATIONS PRIOR TO BEGINS AND START OF WORK.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE DE-ENERGIZING, RE-LOCATION, RE-INSTALLATION AND RE-ENERGIZING ALL ELECTRICAL CONDUITS INSTALLED ABOVE OR IN CLOSE PROXIMITY WITH THE RE-ROOFING WORK NOTED HEREIN. ANY ELECTRICAL WORK, AS NOTED ABOVE, SHALL BE PERFORMED BY OTHERS.

CONTRACTOR SHALL MODIFY/RECONFIGURE TAPERED INSULATION CRICKETS (AS REQUIRED) TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING WATER. FIELD VERIFY.

SPECIAL NOTE: CONTRACTOR SHALL PERFORM FASTENER PULL-TEST WITH MANUFACTURER PRIOR TO START OF WORK.

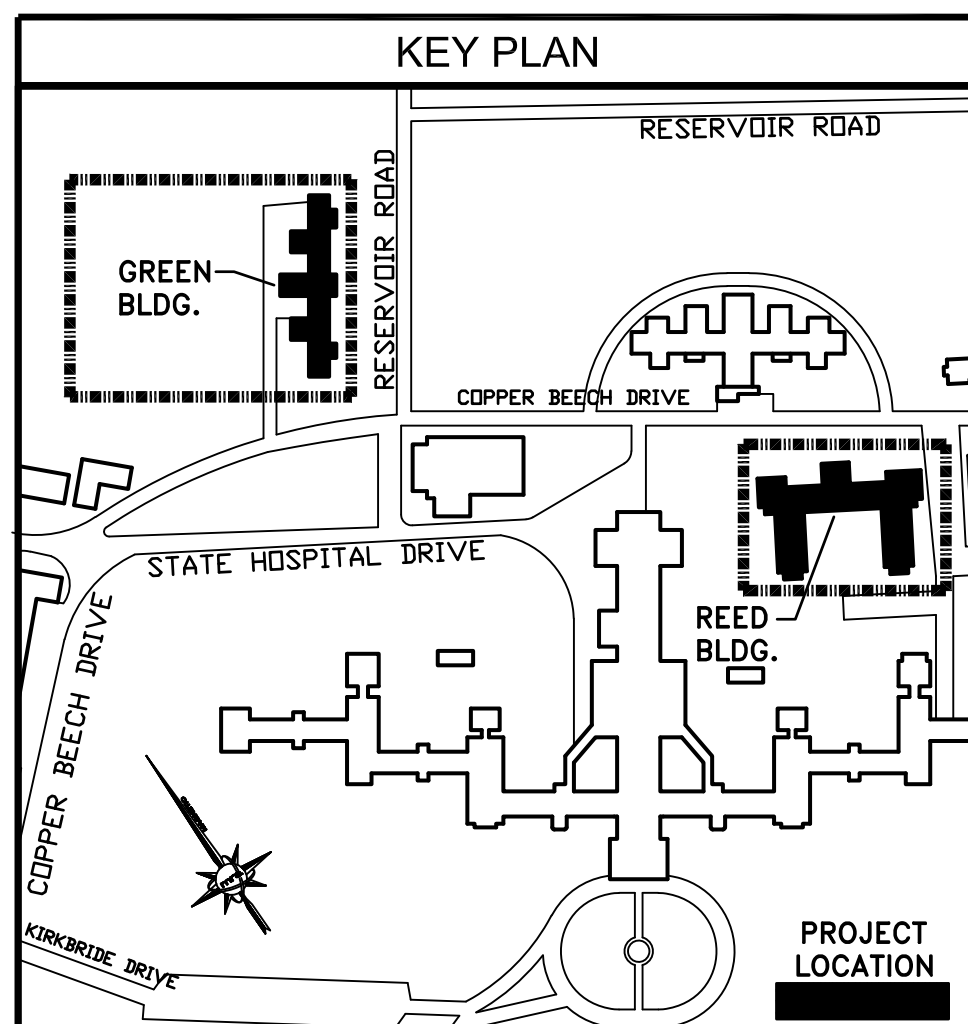
THE CONTRACTOR IS REQUIRED TO BE CERTIFIED AND LICENSED BY AUTHORITIES HAVING JURISDICTION FOR THE PROPER AND LEGAL REMOVAL, HANDLING, AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS (ACM). THE CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL ORDINANCES, REGULATIONS, AND RULES PERTAINING TO ASBESTOS, INCLUDING ITS STORAGE, TRANSPORTATION, AND DISPOSAL.

VERIFY SCALE

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



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



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

Professional's Signature	Consultant's Signature
11/07/2024	11/07/2024

martin rogers
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135 N. Tremont Ave. - Wilkes-Barre, PA 18701
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

ROOF DETAILS			
DESIGNED BY:	DATE:	DRAWING NO.:	A-8
V.P.	11/07/2024		
CHECKED BY:	SCALE:		
A.S.K.	AS NOTED		

FOR CONSTRUCTION - 11/07/2024

GENERAL

	POINT OF CONNECTION TO EXISTING
	POINT OF DISCONNECTION
	EQUIPMENT IDENTIFICATION TAG
	DETAIL #/DRAWING NUMBER
	REVISION TAG

DUCT SYMBOLS

	DUCT, FIRST FIGURE IS PLAN DIMENSION
	FLEXIBLE DUCT (INSULATED)
	EXISTING DUCT
	DUCT TO BE REMOVED
	RECTANGULAR DUCT RISER, UP & DN, SUPPLY OR OUTDOOR AIR
	RECTANGULAR DUCT RISER, UP & DN, RETURN OR EXHAUST AIR
	RECTANGULAR DUCT ELBOW UP, SUPPLY OR OUTDOOR AIR
	RECTANGULAR DUCT ELBOW UP, RETURN OR EXHAUST AIR
	RECTANGULAR DUCT ELBOW DN, SUPPLY OR OUTDOOR AIR
	RECTANGULAR DUCT ELBOW DN, RETURN OR EXHAUST AIR
	RECTANGULAR DUCT TEE UP, SUPPLY OR OUTDOOR AIR
	RECTANGULAR DUCT TEE UP, RETURN OR EXHAUST AIR
	RECTANGULAR DUCT TEE DN, SUPPLY OR OUTDOOR AIR
	RECTANGULAR DUCT TEE DN, RETURN OR EXHAUST AIR
	ROUND DUCT RISER, UP & DN
	ROUND DUCT ELBOW UP
	ROUND DUCT ELBOW DN
	ROUND DUCT TEE UP
	ROUND DUCT TEE DN
	AD - ACCESS DOOR
	AP - ACCESS PANEL
	VOLUME DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
	FIRE DAMPER

DUCT SYMBOLS

	DIFFUSER/GRILLE/REGISTER DESIGNATION AND FLOW RATE IN CFM
	EXISTING DIFFUSER/GRILLE/REGISTER DESIGNATION AND FLOW RATE IN CFM
	CEILING SUPPLY DIFFUSER/GRILLE/REGISTER
	EXISTING CEILING SUPPLY DIFFUSER/GRILLE/REGISTER
	WALL SUPPLY DIFFUSER/GRILLE/REGISTER
	CEILING RETURN/EXHAUST GRILLE/REGISTER
	WALL RETURN/EXHAUST GRILLE/REGISTER
	WALL TRANSFER GRILLE
	OUTDOOR AIR LOUVER
	EXHAUST AIR LOUVER
	UNIT HEATER
	ROOM THERMOSTAT
	AIR HANDLING UNIT
	CONDENSING UNIT
	CONDENSATE RECEIVER PUMP
	EXHAUST FAN
	HEAT EXCHANGER
	PUMP
	MAKE-UP AIR UNIT

EQUIPMENT TAGS

PIPING SYMBOLS

	ARROW INDICATING FLUID FLOW DIRECTION
	EXISTING PIPING
	PIPE TO BE REMOVED
	HEATING
	HIGH-PRESSURE STEAM
	LOW-PRESSURE STEAM
	HIGH-PRESSURE CONDENSATE
	LOW-PRESSURE CONDENSATE
	PUMPED CONDENSATE
	HOT WATER SUPPLY
	HOT WATER RETURN
	COOLING
	REFRIGERANT SUCTION
	REFRIGERANT LIQUID
	FITTINGS
	PIPE RISER, UP & DN
	PIPE ELBOW UP
	PIPE TEE UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC STRAIGHT INVERT
	REDUCER, ECCENTRIC STRAIGHT CROWN
	UNION
	FLANGE
	CAP
	SPECIALTIES
	AIR VENT, AUTOMATIC
	AIR VENT, MANUAL
	ALIGNMENT GUIDE
	ANCHOR
	EXPANSION JOINT
	EXPANSION LOOP
	FLEXIBLE CONNECTOR

PIPING SYMBOLS

	FLOWMETER, ORIFICE
	FLOWMETER, VENTURI
	FLOWMETER, ULTRASONIC STRAP-ON
	FLOW SWITCH
	TEST PLUG
	PRESSURE GAUGE, WITH COCK
	PRESSURE GAUGE, COMPOUND
	PRESSURE SWITCH
	STEAM TRAP, FLOAT AND THERMOSTATIC
	STRAINER
	STRAINER, BLOW OFF
	THERMOMETER
	THERMOMETER WELL
	VALVES FOR SELECTIVE ACTUATORS
	BALL
	BUTTERFLY
	GATE
	GATE, ANGLE
	GLOBE
	GLOBE, ANGLE
	PLUG
	THREE WAY
	VALVE ACTUATORS
	LEVER
	NON-RISING STEM
	OUTSIDE STEM & YOKE
	GEAR
	ELECTRIC, SOLENOID
	PNEUMATIC, MOTOR
	SPECIAL DUTY VALVES
	BALANCING VALVE
	CHECK
	HOSE END DRAIN VALVE
	NEEDLE
	PRESSURE REDUCING
	QUICK OPENING
	QUICK CLOSING, FUSIBLE LINK
	RELIEF (R) OR SAFETY (S)
	TRIPLE DUTY

AD	ACCESS DOOR	MAX	MAXIMUM
A.F.F.	ABOVE FINISHED FLOOR	MBH	THOUSAND BTUH
AHU	AIR HANDLING UNIT	MIN	MINIMUM
ALT	ALTITUDE	MPC	MEDIUM-PRESSURE CONDENSATE
AMB	AMBIENT	MPS	MEDIUM-PRESSURE STEAM
AMP, AMPS	AMPERE(S)	N/A	NOT APPLICABLE
APPROX.	APPROXIMATE	NC	NOISE CRITERIA
ATC	AUTOMATIC TEMPERATURE CONTROLS	N.C.	NORMALLY CLOSED
ATV	ATMOSPHERIC VENT	NO	NOT IN CONTRACT
AVG	AVERAGE	N.O.	NORMALLY OPEN
BDD	BACKDRAFT DAMPER	NTS	NOT TO SCALE
BHP	BRAKE HORSEPOWER	OA	OUTSIDE AIR
BTU	BRITISH THERMAL UNIT	OD	OUTSIDE DIAMETER
BTUH	BRITISH THERMAL UNIT PER HOUR	OZ	OUNCE
CFM	CUBIC FEET PER MINUTE	PC	PUMPED CONDENSATE
CLG	COOLING	PD	PRESSURE DROP
CMPR	COMPRESSOR	PH	PHASE
COND.	CONDENSE-ER, -ING, -ATION	PPM	PARTS PER MILLION
CONT	CONTINUED, -ATION	PRESS	PRESSURE
CU. FT.	CUBIC FEET	PSI	POUNDS PER SQUARE INCH
CU. IN.	CUBIC INCH	PSIA	ABSOLUTE PRESSURE
dB	DECIBEL	PSIG	GAGE PRESSURE
DB	DRY-BULB TEMPERATURE	RA	RETURN AIR
DEG OR °	DEGREE	RAD	RADIAT(E, -OR)
DIA OR Ø	DIAMETER	RD	ROOF DRAIN
DN	DOWN	RECIRC	RECIRCULATE
DWG	DRAWING	RH	RELATIVE HUMIDITY
EA	EXHAUST AIR	RL	REFRIGERANT LIQUID
EAT	ENTERING AIR TEMPERATURE	RO	ROOF OPENING
E.C.	ELECTRICAL CONTRACTOR	RPM	REVOLUTIONS PER MINUTE
EFF.	EFFICIENCY	RS	REFRIGERANT SUCTION
EL	ELEVATION	S	SECOND
ENTG	ENTERING STATIC PRESSURE	SA	SUPPLY AIR
E.S.P.	EXTERNAL STATIC PRESSURE	SAN	SANITARY
EVAP.	EVAPORAT(E, -ING, -ED, -OR)	SH	SENSIBLE HEAT
EXT	EXISTING	SHG	SENSIBLE HEAT GAIN
EX, EXIST		SP	STATIC PRESSURE
F	FAHRENHEIT	SPEC.	SPECIFICATION
FA	FACE AREA	SQ	SQUARE
FD	FIRE DAMPER	STD	STANDARD
FFM	FEET PER MINUTE	SUCT	SUCTION
FPS	FEET PER SECOND	TD	TEMPERATURE DIFFERENCE
FT	FOOT OR FEET	TEMP	TEMPERATURE
FVEL	FACE VELOCITY	TH	TOTAL HEAT
GA	GAGE OR GUAGE	THKS	THICKNESS
GAL	GALLONS	TSTAT	THERMOSTAT
G.C.	GENERAL CONTRACTOR	TV	TURNING VANES
GPM	GALLONS PER MINUTE	TYP.	TYPICAL
HD	HEAD	V	VOLT
HG	MERCURY	VAV	VARIABLE AIR VOLUME
HGT	HEIGHT	VD	VOLUME DAMPER
HP	HORSEPOWER	VEL	VELOCITY
HPC	HIGH PRESSURE CONDENSATE	VENT	VENTILATION, VENT
HPS	HIGH PRESSURE STEAM	VOL	VOLUME
HR	HOURS		
HWR	HOT WATER RETURN		
HWS	HOT WATER SUPPLY		
HZ	HERTZ	W	WATT
ID	INSIDE DIAMETER	W	WITH
IN	INCHES	WB	WET BULB TEMPERATURE
KM	KILOWATT	WD	WIDTH
		WG	WATER GAGE
		WMS	WIRE MESH SCREEN
		WT	WEIGHT
LAT	LEAVING AIR TEMPERATURE		
LBS	POUNDS		
LF	LINEAR FEET		
LG	LENGTH		
LPG	LOW-PRESSURE CONDENSATE		
LPS	LOW-PRESSURE STEAM		
LMT	LEAVING WATER TEMPERATURE		

NOTE : THIS IS A GENERAL MECHANICAL LEGEND. ALL SYMBOLS MAY NOT APPEAR ON THE PLANS. SEE PLANS FOR ACTUAL SYMBOLS USED.

LEAD PAINT: WORK SHALL BE CONDUCTED UNDER THE ASSUMPTION THAT ALL SURFACE COATINGS CONTAIN LEAD. ALL DISTURBANCE ACTIVITIES SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING OSHA 29 CFR 1926.62. WORK ACTIVITIES SHALL ENSURE AREAS BEYOND WORK AREA ARE NOT CONTAMINATED. REFER TO SECTION 01040 FOR ANY ADDITIONAL REQUIREMENTS.

THE 2 CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL HVAC DUCT, PIPING, AND CONTROLS SYSTEMS IN PREVIOUS, CURRENT, AND FUTURE SEQUENCES OPERATIONAL FOR THE DURATION OF AND AT THE COMPLETION OF EACH SEQUENCE.

ABBREVIATIONS

- COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE ALL PENETRATIONS THROUGH EXTERIOR WALLS WITH ARCHITECTURAL DRAWINGS.
- THE 2 CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK. HE SHALL REPORT ANY DISCREPANCIES TO THE PROFESSIONAL FOR CORRECTION PRIOR TO BEGINNING ANY WORK. DISCOVERY OF ANY DISCREPANCIES AFTER WORK HAS COMMENCED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- DO NOT SCALE THESE DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC...AT THE JOB SITE.
- THE 2 CONTRACTOR SHALL CENTER ALL GRILLES, DIFFUSERS, AND EQUIPMENT WITH ADJACENT ARCHITECTURAL FEATURES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
- DUCT DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.
- ALL ROOF CURBS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED, INSTALLED, AND FLASHED BY THE 2 CONTRACTOR. THE 2 CONTRACTOR IS RESPONSIBLE FOR ALL HVAC RELATED ROOF WORK, INCLUDING CUTTING AND PATCHING. THE 2 CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE ROOF WARRANTY.
- ALL EQUIPMENT-HVAC CONTRACTORS MUST REVIEW THE EQUIPMENT SCHEDULES, SPECIFICATIONS, AND DRAWINGS IN ALL CONTRACT DOCUMENTS AND SUBSEQUENT SHOP DRAWINGS. ALL LABOR AND MATERIALS FOR A COMPLETE AND OPERABLE SYSTEM AS PART OF THE CONTRACT. FAILURE TO REVIEW DOES NOT RELIEVE THE 2 CONTRACTOR OF FULFILLING CONTRACTUAL OBLIGATIONS.
- REFER TO ARCHITECTURAL DRAWINGS AND SHOP DRAWINGS FOR FINAL CONNECTIONS AND EXACT LOCATIONS FOR ALL WORK REQUIRED FOR EQUIPMENT NOT FURNISHED UNDER THIS CONTRACT.
- COORDINATE INSTALLATION OF NEW WORK WITH ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, PLUMBING, POWER, AND LIGHTING PLANS. CONTRACTOR SHALL TAKE ALL INTERFERENCE INTO CONSIDERATION PROVIDE ALL NECESSARY OFFSETS OR TRANSITIONS WITH EQUIVALENT AREAS TO MATCH DUCT SIZES AS INDICATED ON DRAWINGS.
- DO NOT INSTALL ANY MECHANICAL WORK ABOVE ELECTRICAL PANELS.
- DO NOT INSTALL ANY MECHANICAL WORK ABOVE OR THROUGH ELEVATOR EQUIPMENT ROOM UNLESS SPECIFICALLY SERVING EQUIPMENT ROOM.
- THE MOUNTING HEIGHT OF ALL THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL MATCH THE MOUNTING HEIGHT OF ELECTRICAL LIGHT SWITCHES OR, IN THE ABSENCE OF NEARBY SWITCHES, BE MOUNTED 44" O.C. ABOVE FINISHED FLOOR.
- FOR ALL BRANCH DUCT CONNECTIONS TO MAIN TRUNK, PROVIDE 45° TRANSITION FITTING OR CONICAL TAP FOR ROUND DUCT. BUTT FITTINGS ARE NOT PERMITTED. PROVIDE MANUAL VOLUME DAMPER WITH LOGGING QUADRANT ON ALL BRANCH RUN-OUTS TO GRILLES AND DIFFUSERS.
- PROVIDE TURNING VANES IN ALL MITERED ELBOWS OR PROVIDE ELBOWS WITH CENTERLINE RADIUS EQUAL TO 1.5 TIMES DUCT WIDTH.
- INSTALL ALL FIRE DAMPERS AND CEILING RADIATION DAMPERS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. PROVIDE UL FIRE DAMPERS WITH BLADES OUT OF AIR STREAM AND ACCESS DOORS. FIRE DAMPERS IN TRANSFER DUCTS MAY ONLY HAVE BLADES IN AIR STREAM.
- SLEEVE AND SEAL ALL PIPE OR DUCT PENETRATIONS OF WALLS AND FLOORS. PACK VOID BETWEEN PIPE OR DUCT AND SLEEVE WITH INSULATION IN NON-RATED WALLS AND FLOORS. PACK VOID BETWEEN PIPE OR DUCT AND SLEEVE WITH INSULATION IN FIRE-RATED WALLS AND FLOORS. APPLY INTUMESCENT FIRE SAVING COMPOUND AT PENETRATION, MAINTAINING INTEGRITY AND RATING OF FIRE SEPARATION SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR AND BE GROUTED INTO PLACE AND WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED AND SEALED WEATHER TIGHT.
- THE CLIENT AGENCY SHALL HAVE THE OPTION TO RETAIN ANY EQUIPMENT, CONTROLS, PIPING, DUCTWORK, AND ACCESSORIES SCHEDULED TO BE REMOVED.
- SHUTDOWN OF SERVICES SHALL BE COORDINATED AND SCHEDULED WITH THE CLIENT AGENCY AND DANVILLE STATE HOSPITAL CAMPUS.
- DUCTWORK AND PIPING THAT REMAIN AFTER DEMOLITION IS COMPLETE, SHALL BE CAPPED AT THE MAIN (IF THEY ARE TO BE TAKEN OUT OF SERVICE), OR PREPARED FOR RECONNECTION (IF THEY ARE TO BE REUSED). ALL DEMOLISHED HOT WATER BRANCH PIPING SHALL BE CAPPED AT MAIN. HOT WATER BRANCH PIPING SHALL NOT BE REUSED AS ANY NEW BRANCH LINES WILL BE TAPPED FROM THE MAINS. ALL CHILLED WATER PIPING SHALL BE CAPPED DURING EACH SEQUENCE AS THE ENTIRE CHILLED WATER SYSTEM WILL BE REMOVED UNDER THIS PROJECT.
- THE 2 CONTRACTOR SHALL DISCONNECT AND CAP ALL SUPPLY, RETURN, AND EXHAUST AIR OUTLETS THAT ARE STILL ACTIVE IN THE PROJECT AREA DURING CONSTRUCTION.
- THE 2 CONTRACTOR SHALL REFER TO THE SEQUENCING PLANS TO DETERMINE THE EXTENT OF WORK AND TEMPORARY SYSTEM CONNECTIONS NECESSARY FOR EACH SEQUENCE.
- ALL DUCT AND UNIT MOUNTED SMOKE DETECTORS FOR MECHANICAL EQUIPMENT AND DAMPERS SHALL BE FURNISHED BY THE 4 CONTRACTOR, INSTALLED BY THE 2 CONTRACTOR, WIRED TO FIRE ALARM SYSTEM BY THE 4 CONTRACTOR, WITH UNIT SHUTDOWN CONTROL WIRING BY THE 2 CONTRACTOR.
- THE 2 CONTRACTOR SHALL PROVIDE ALL TRANSFORMERS AS REQUIRED FOR DUCT-MOUNTED DAMPER ACTUATORS OR THE DDC CONTROLS SYSTEM.
- ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE USING AGENCY SO THAT DISRUPTION OF AREAS INVOLVED IS KEPT TO A MINIMUM. ANY ACCIDENTAL INTERRUPTIONS TO SERVICES SHALL BE REPAIRED IMMEDIATELY BY THE 2 CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE CLIENT AGENCY.
- PRIOR TO SUBMITTING BIDS AND DURING CONSTRUCTION, THE 2 CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES AND COORDINATE THE INSTALLATION WITH ALL TRADES AND EXISTING CONDITIONS. COORDINATION OF WORK IF NECESSARY SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE CLIENT AGENCY.
- PROVIDE ALL DAMPERS, SHEAVES, AND BELTS AS REQUIRED FOR BALANCING.
- THE 2 CONTRACTOR IS RESPONSIBLE FOR THE CUTTING AND PATCHING OF ALL OPENINGS RELATED TO HIS WORK. PATCHES SHALL MATCH SURROUNDING WALL AND CEILING SURFACES AND SHALL BE SEALED AND FIRESTOPPED AS REQUIRED.
- INSTALL FIRE DAMPERS AS REQUIRED PER NFPA 101 AND NFPA 40A.
- ALL HVAC INSTALLATIONS SHALL COMPLY WITH NFPA 101.

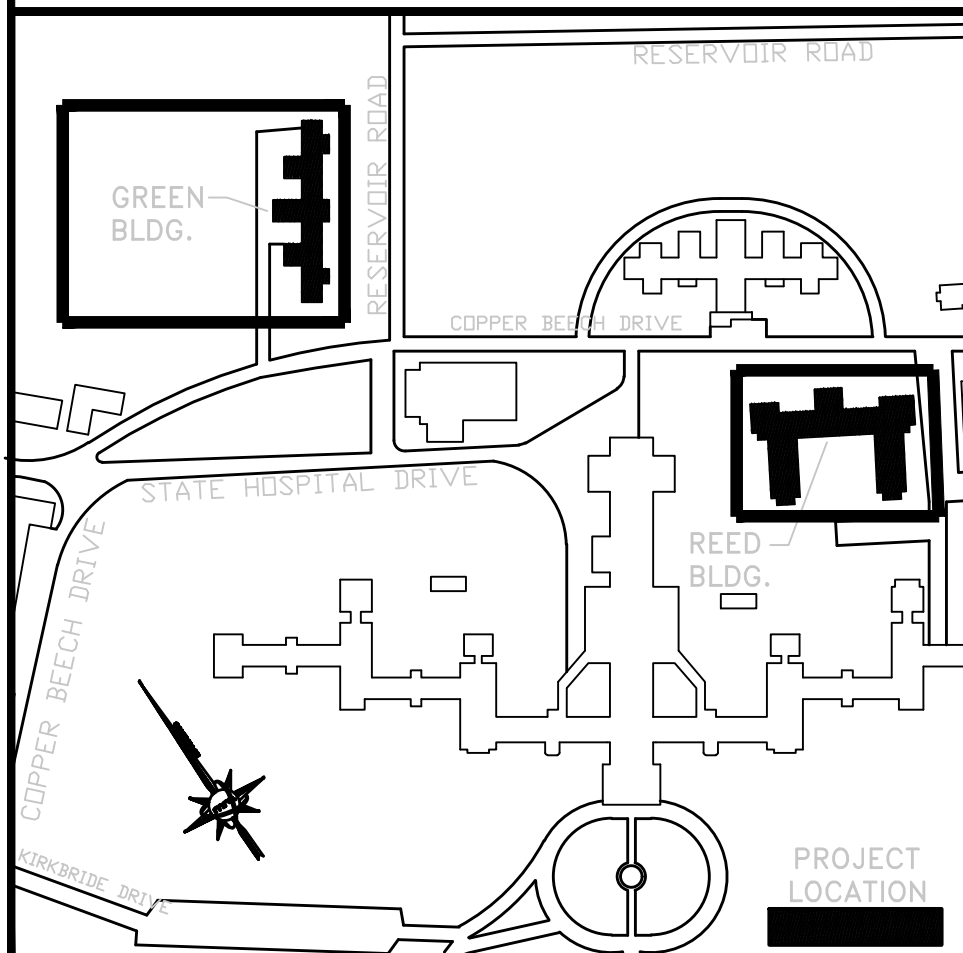
VERIFY SCALE

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



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

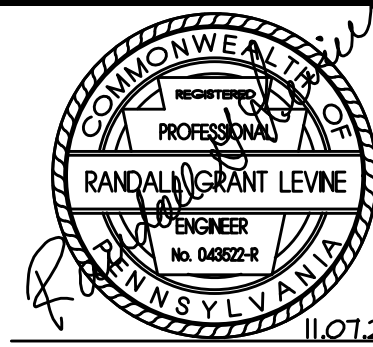
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS



Professional's Signature Date 11/07/2024 Consultant's Signature Date



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

LEGENDS AND NOTES

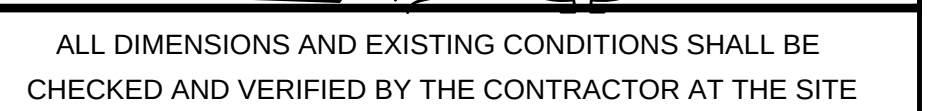
DRAWN BY	DATE	REVISION NO.
TJ	11/07/2024	
CHECKED BY	SCALE	
RL	AS NOTED	H-1

FOR CONSTRUCTION 11/07/2024

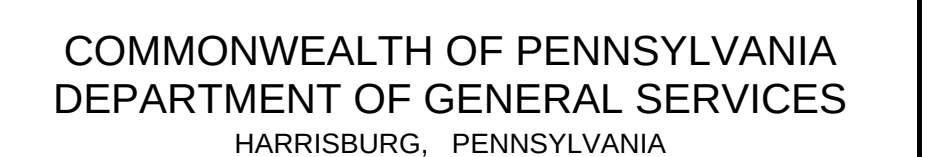
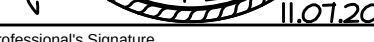
1. PROVIDE A PRE-CONSTRUCTION AIR AUDIT ON ALL AHUS BEING REMOVED. RECORD READINGS FOR THE FOLLOWING TO DEVELOP A BASELINE FOR REBALANCING:
-TRAVERSE SUPPLY AND RETURN MAINS
-AIRFLOW READINGS AT ALL AIR TERMINALS THROUGHOUT THE FLOOR



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



AS BUILT REVISIONS	
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PROJECT NO. DGS C-0503-0026 PHASE 1

**NORTH CENTRAL STU - HVAC
UPGRADES**
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

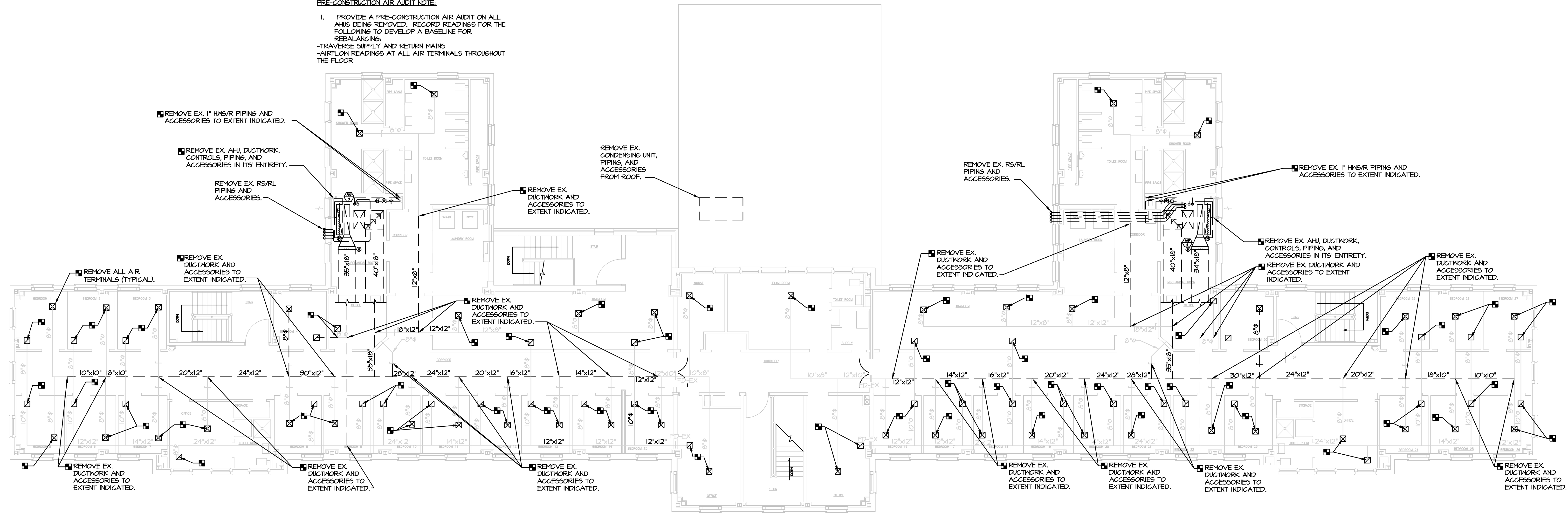
FIRST FLOOR PLAN - GREEN BUILDING
DEMOLITION

DRAWN BY: TJ	DATE: 11/07/2024	DRAWING NO.: H-3
CHECKED BY: RL	SCALE: AS NOTED	

FOR CONSTRUCTION 11/07/2024

PRE-CONSTRUCTION AIR AUDIT NOTE:

- I. PROVIDE A PRE-CONSTRUCTION AIR AUDIT ON ALL AHUS BEING REMOVED. RECORD READINGS FOR THE FOLLOWING TO DEVELOP A BASELINE FOR REBALANCING:
-TRAVERSE SUPPLY AND RETURN MAINS
-AIRFLOW READINGS AT ALL AIR TERMINALS THROUGHOUT THE FLOOR



1 SECOND FLOOR PLAN - GREEN BUILDING - DEMOLITION
H-4 SCALE: 1/8\"=1'-0"

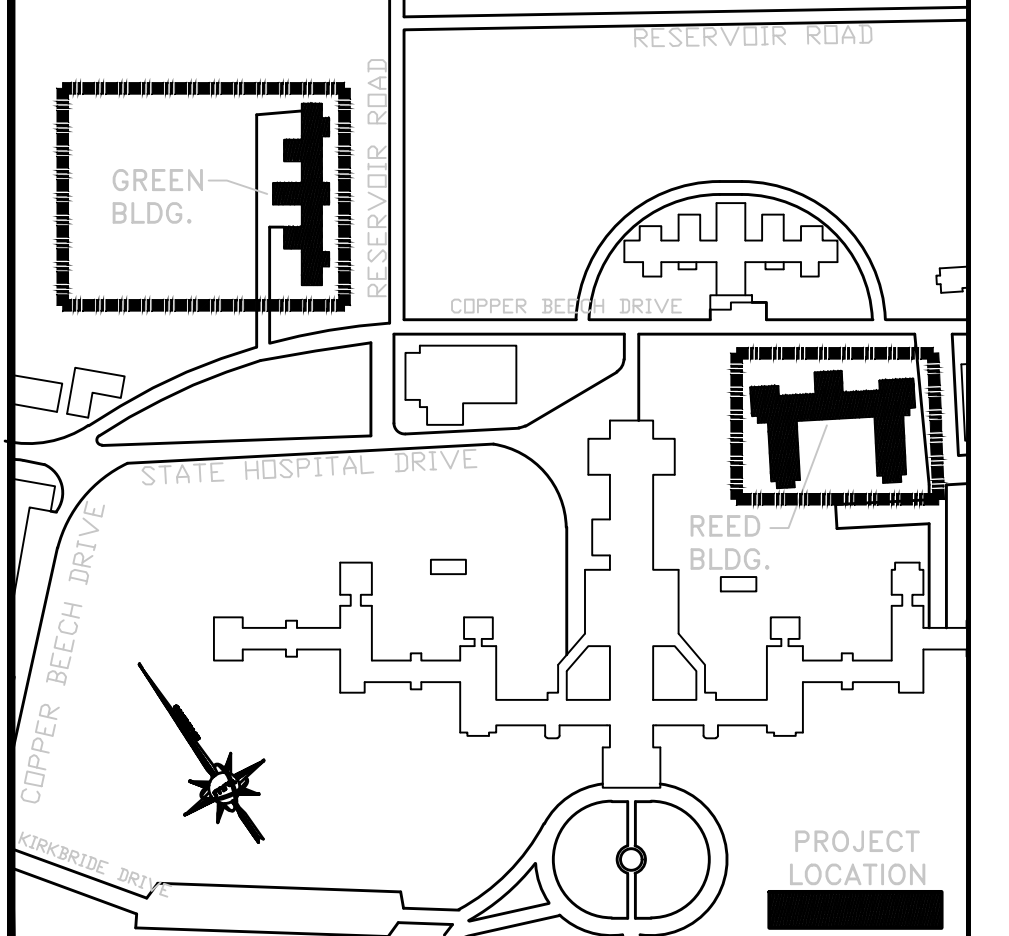
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KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS



Professional's Signature: _____ Date: 11/07/2024 Consultant's Signature: _____ Date: _____



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

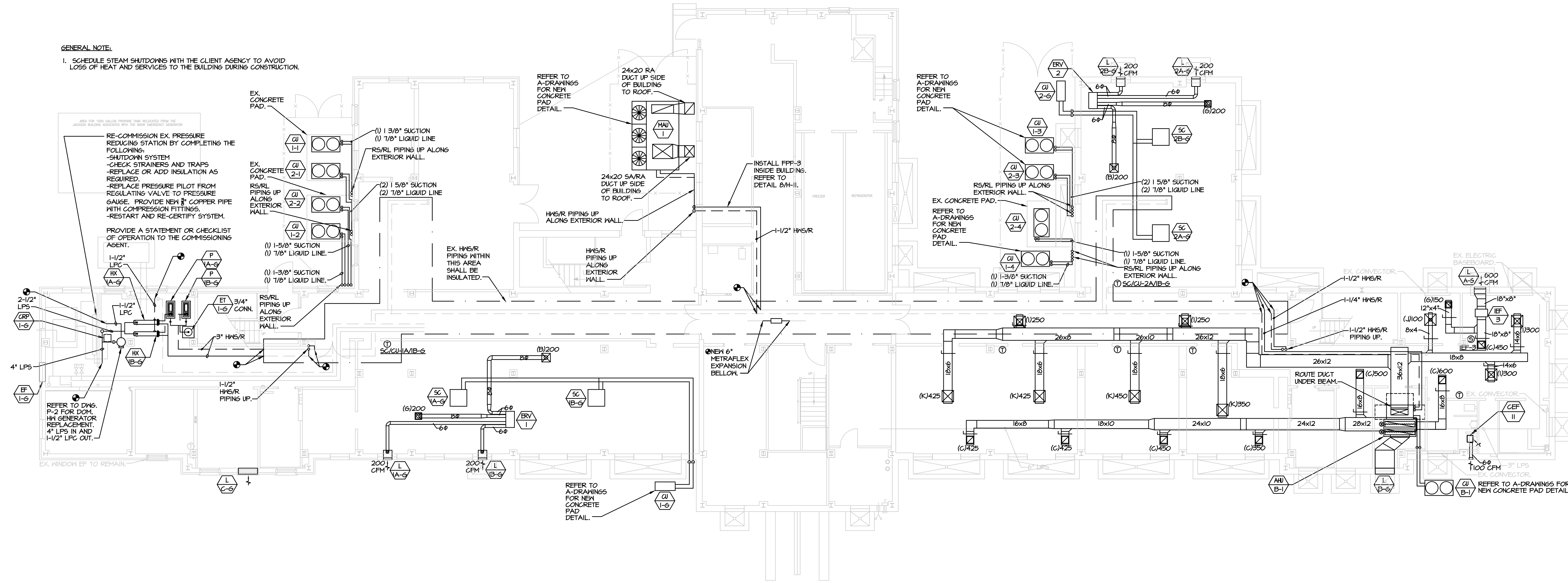
NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

SECOND FLOOR PLAN - GREEN BUILDING
DEMOLITION

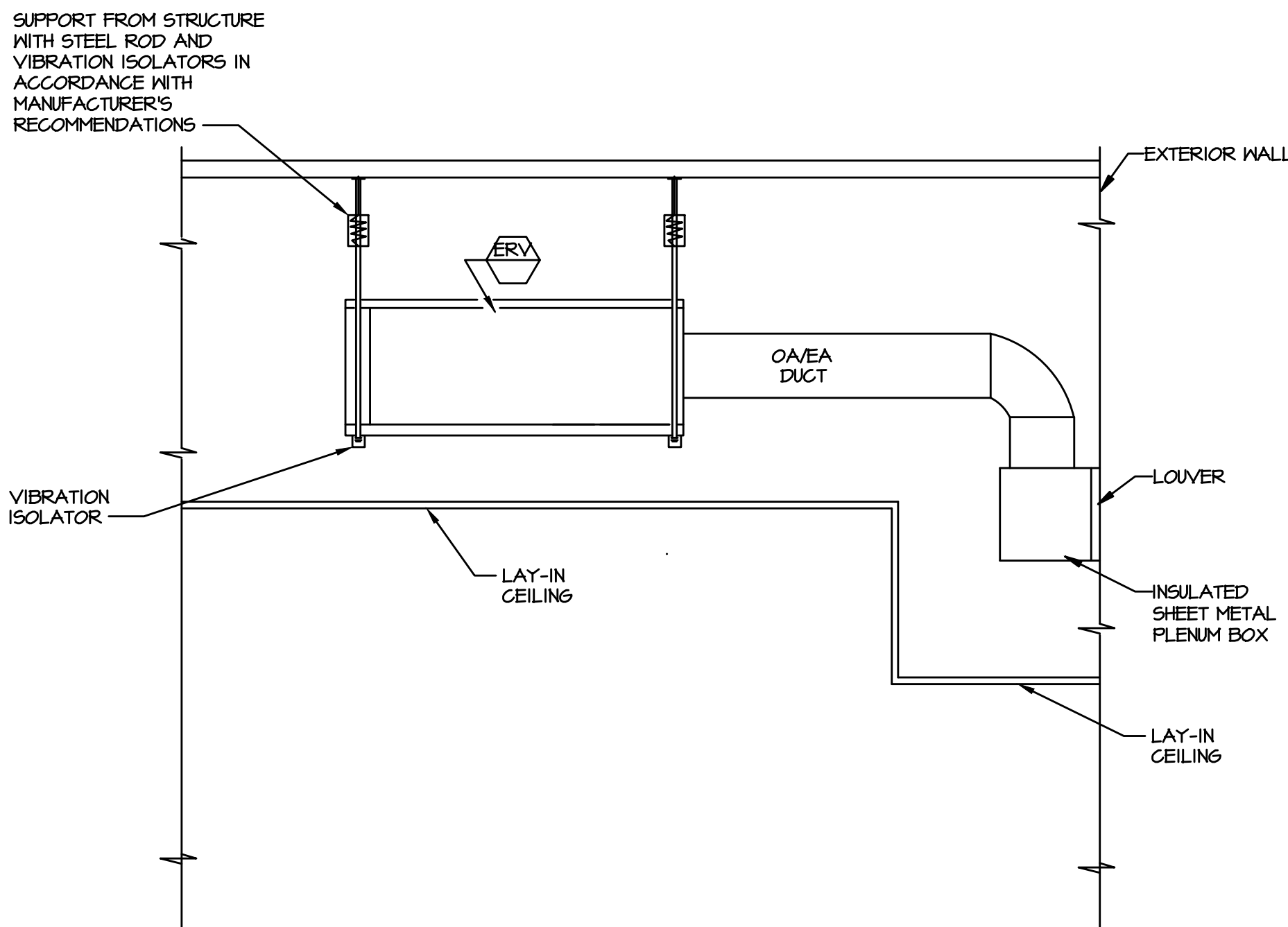
DRAWN BY: TJ	DATE: 11/07/2024	CHECKED BY: RL	SCALE: AS NOTED	H-4

FOR CONSTRUCTION 11/07/2024

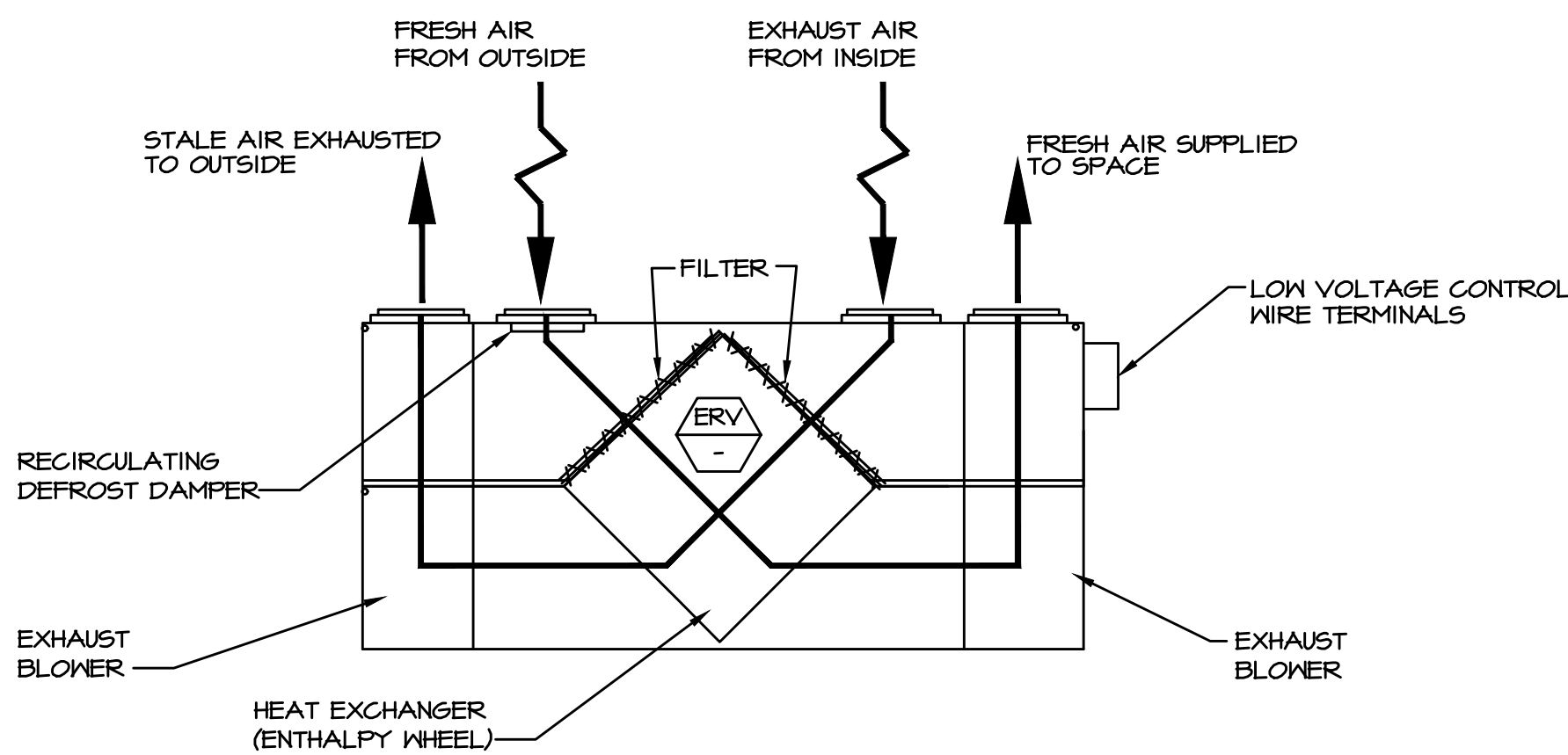
GENERAL NOTE:
1. SCHEDULE STEAM SHUTDOWNS WITH THE CLIENT AGENCY TO AVOID LOSS OF HEAT AND SERVICES TO THE BUILDING DURING CONSTRUCTION.



1 PARTIAL BASEMENT PLAN - GREEN BUILDING - PIPING
H-5 SCALE: 1/8"=1'-0"



3 ENERGY RECOVERY LOUVER DETAIL
H-5 SCALE: NO SCALE



4 ENERGY RECOVERY VENTILATOR DETAIL
H-5 SCALE: NO SCALE

AIR HANDLING UNIT (DX & HW) SCHEDULE (GREEN)																				
TAG NO.	BASIS OF DESIGN		SUPPLY FAN					DX COOLING COIL					HW HEATING COIL					ELECTRICAL		NOTES
	MANUFACTURER	MODEL	TOTAL CFM	MIN. OA CFM	HP	ESP IN. WC	RPM	MBH TOTAL/SENS	EAT DB/MB	LAT DB/MB	REFRIGERANT	PIPE SIZE CONN.		MEH	EAT	LAT	EXT	LMT	GPM	PIPE SIZE CONN.
												SUC.	LIQ.							
AHU-B-1	JOHNSON CONTROLS	NLO90	2850	285	2.00	1.2	1060	88.2/65.2	71.0/64.0	54.0/53.0	R410A	1 1/8"	5/8"	150	60.0	115	150	120	7.5	1-1/4"

NOTES:
1. PROVIDE NEOPRENE VIBRATION ISOLATION PAD UNDER FRAME PERIMETER.
2. PROVIDE MERV 13 FILTER.
3. PROVIDE INTELLISPEED VFD WITHOUT BYPASS.
4. PROVIDE COMPOSITE DRAIN PAN.
5. PROVIDE 2-ROW DEEP HOT WATER COIL.
6. AHU OA DAMPERS SHALL FAIL NORMALLY CLOSED UPON LOSS OF POWER OR DURING EMERGENCY CONDITIONS.
7. PROVIDE HAYS HOSE KIT WITH CONSIGNMENT MOUNTED ATC VALVE.
8. PROVIDE NON-FUSED DISCONNECT SWITCH.

CONDENSING UNIT SCHEDULE (GREEN)																
TAG NO.	BASIS OF DESIGN		CAPACITY	AMBIENT TEMP.	REFRIGERANT	CONNECTIONS		COMPRESSOR	CONDENSER FAN MOTORS			EFFICIENCY		UNIT ELECTRICAL DATA		
	MANUFACTURER	MODEL				L	S		NO.	RLA	NO.	FLA	EER	IEER	VOLT/ PH/Hz	MCA
CU-B-1	JOHNSON CONTROLS	YE090	83.4	75	95.0	R410A	5/8"	1 1/8"	2	13.4	2	11	11.2	16.0	460/3/60	19

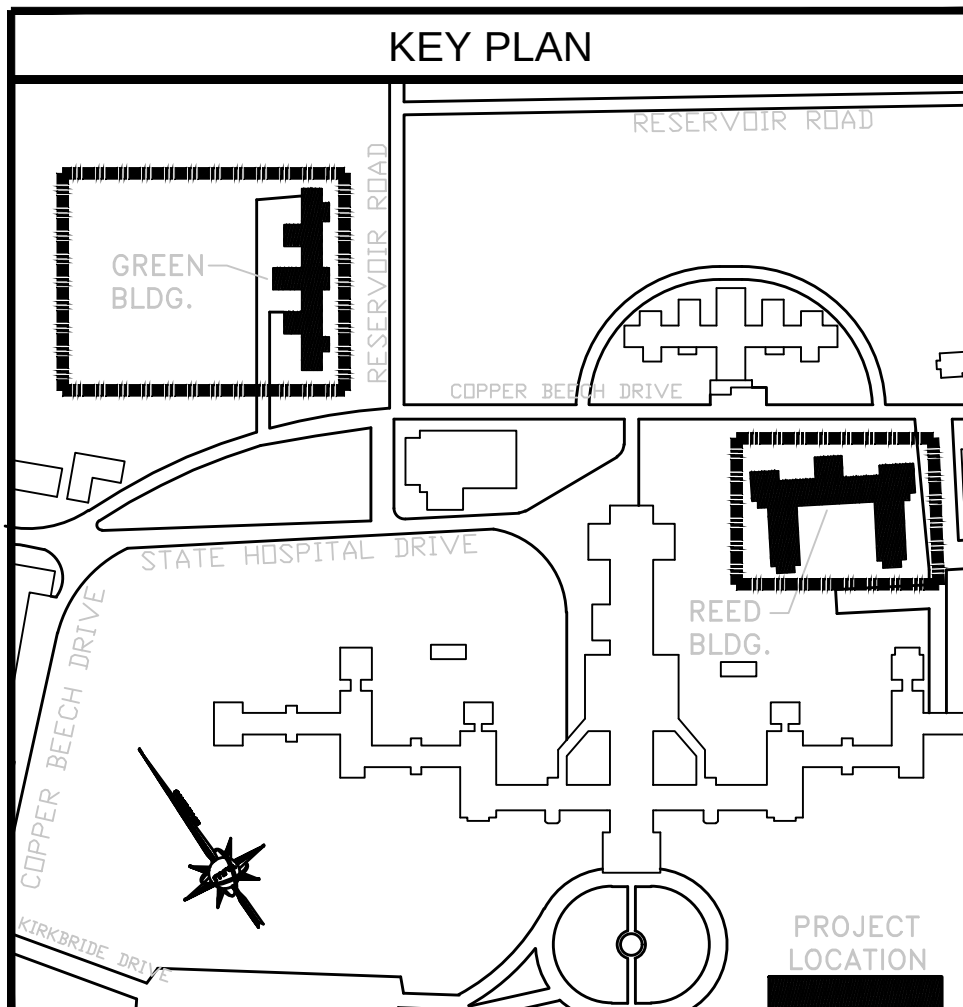
NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. COORDINATE WITH ALL TRADES.
2. PROVIDE UNIT STAND-OFF KIT BY MFR, DISCONNECT SWITCH, AND ALL NECESSARY CONTROLS AND STARTER FOR PROPER OPERATIONS.
3. PROVIDE POWERED CONVENIENCE OUTLET.
4. PROVIDE HAIL GUARDS.
5. PROVIDE NEOPRENE VIBRATION ISOLATION PAD UNDER FRAME PERIMETER.
6. PROVIDE LOW AMBIENT KIT.
7. PROVIDE HOT GAS BY-PASS KIT.
8. PROVIDE SINGLE 2-STAGE SCROLL COMPRESSORS.

VERIFY SCALE

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



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



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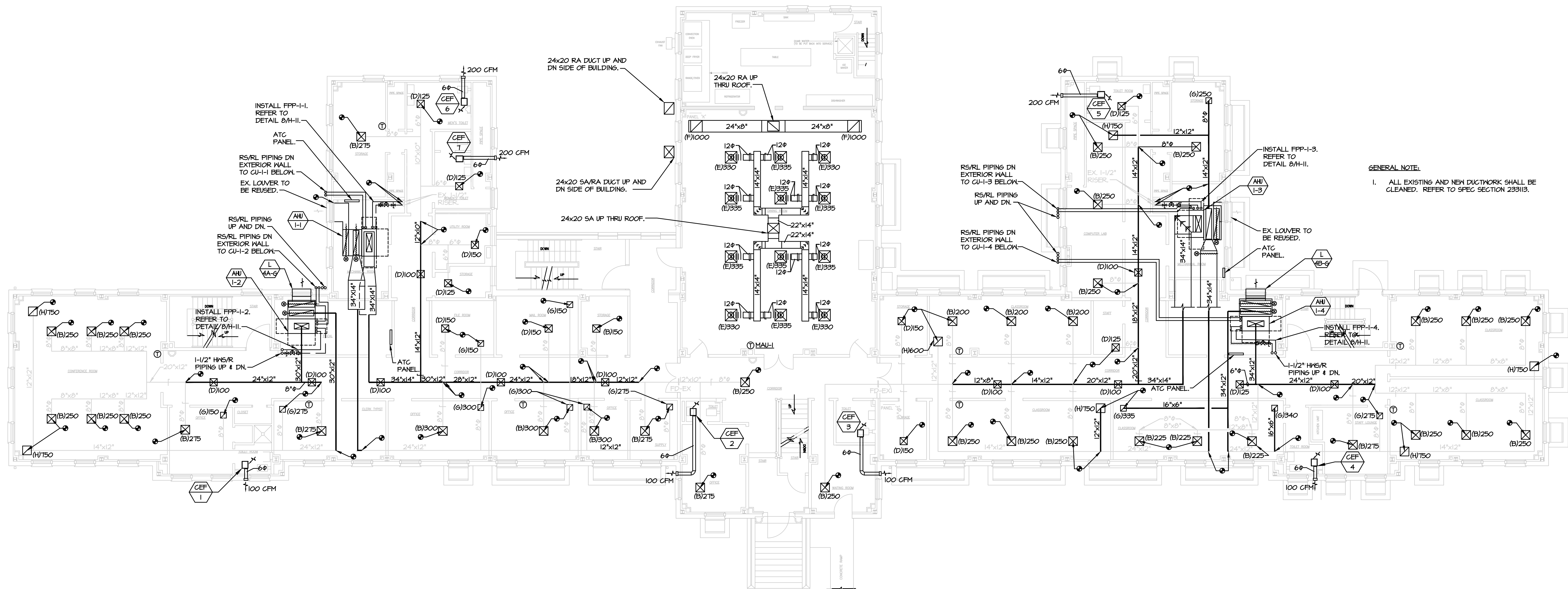
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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA		
PROJECT NO. DGS C-0503-0026 PHASE 1		
NORTH CENTRAL STU - HVAC UPGRADES Danville State Hospital - NCSTU Reed and Green Buildings Danville, Montour County, Pennsylvania		
BASEMENT PLANS - GREEN BUILDING PIPING		
DRAWN BY: TJ	DATE: 11/07/2024	DESIGNED BY:
CHECKED BY: RL	SCALE: AS NOTED	H-5

FOR CONSTRUCTION 11/07/2024



1 FIRST FLOOR PLAN - GREEN BUILDING - DUCTWORK
H-6 SCALE: 1/8"=1'-0"

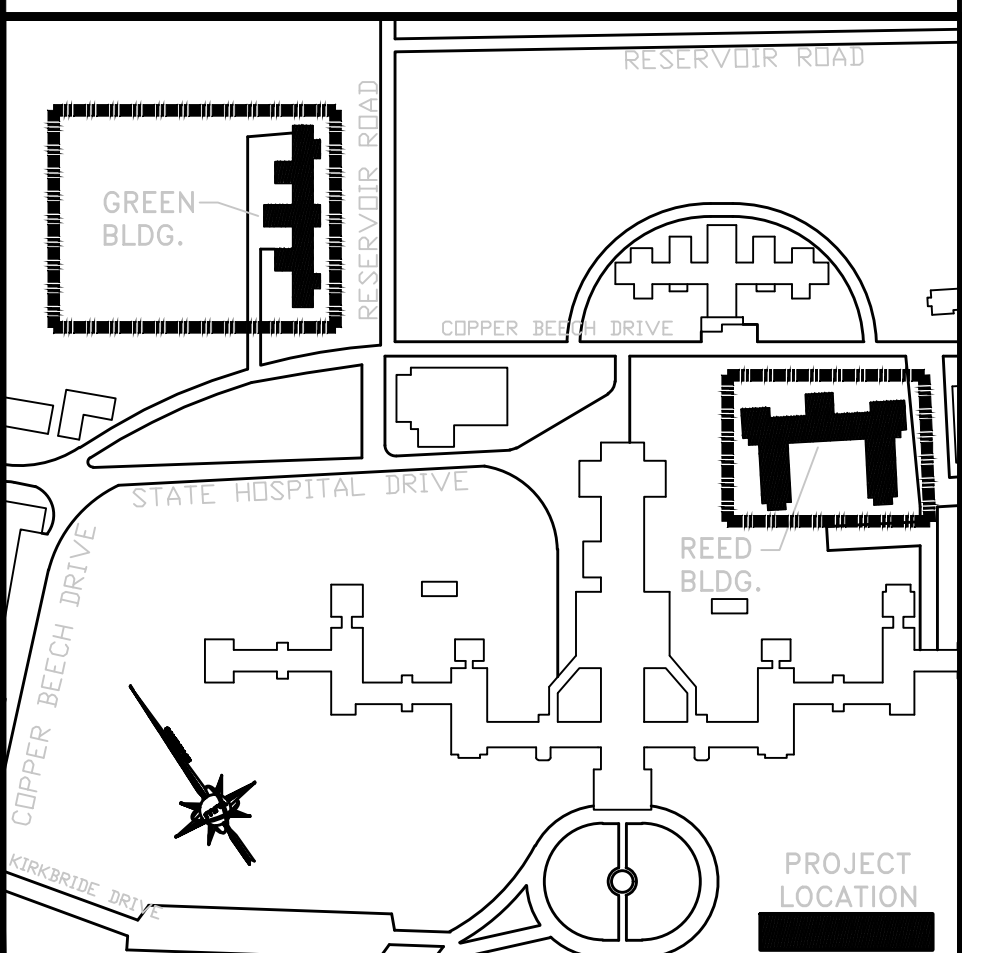
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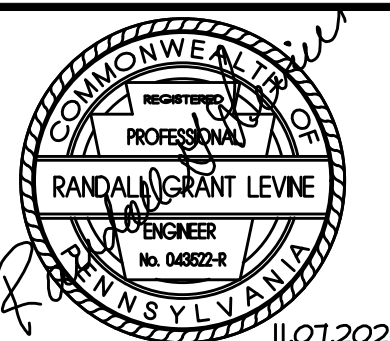
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS



Professional's Signature: _____ Date: 11/07/2024 Consultant's Signature: _____ Date: _____



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

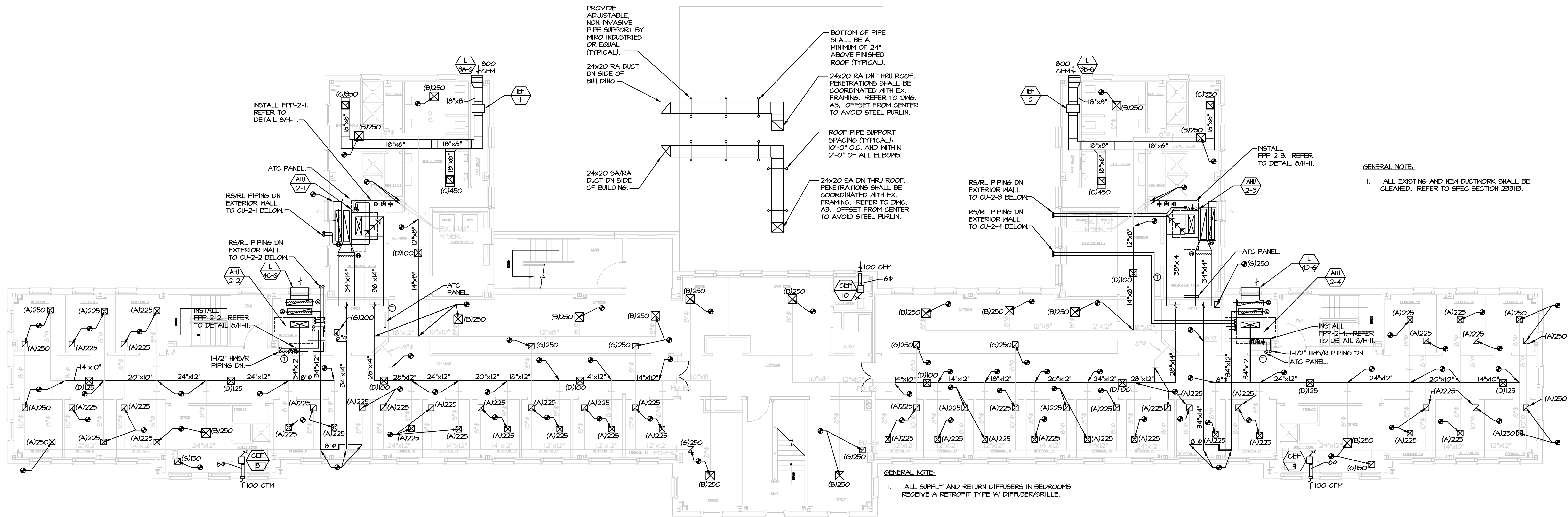
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
 UPGRADES
 Danville State Hospital - NCSTU Reed and Green Buildings
 Danville, Montour County, Pennsylvania

FIRST FLOOR PLAN - GREEN BUILDING
 DUCTWORK

DRAWN BY: TJ	DATE: 11/07/2024	CONTRACT NO.:
CHECKED BY: RL	SCALE: AS NOTED	H-6

FOR CONSTRUCTION 11/07/2024



1 SECOND FLOOR PLAN - GREEN BUILDING - DUCTWORK
H-7 SCALE: 1/8"=1'-0"

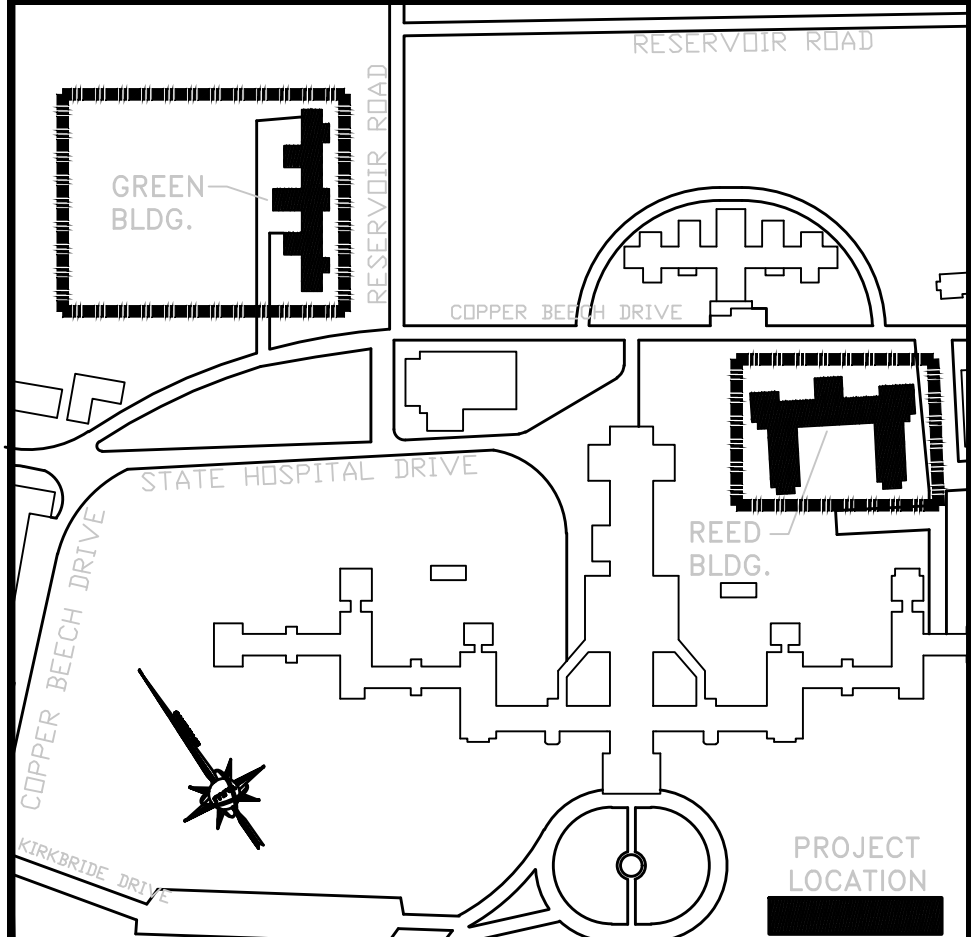
VERIFY SCALE

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

KEY PLAN



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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

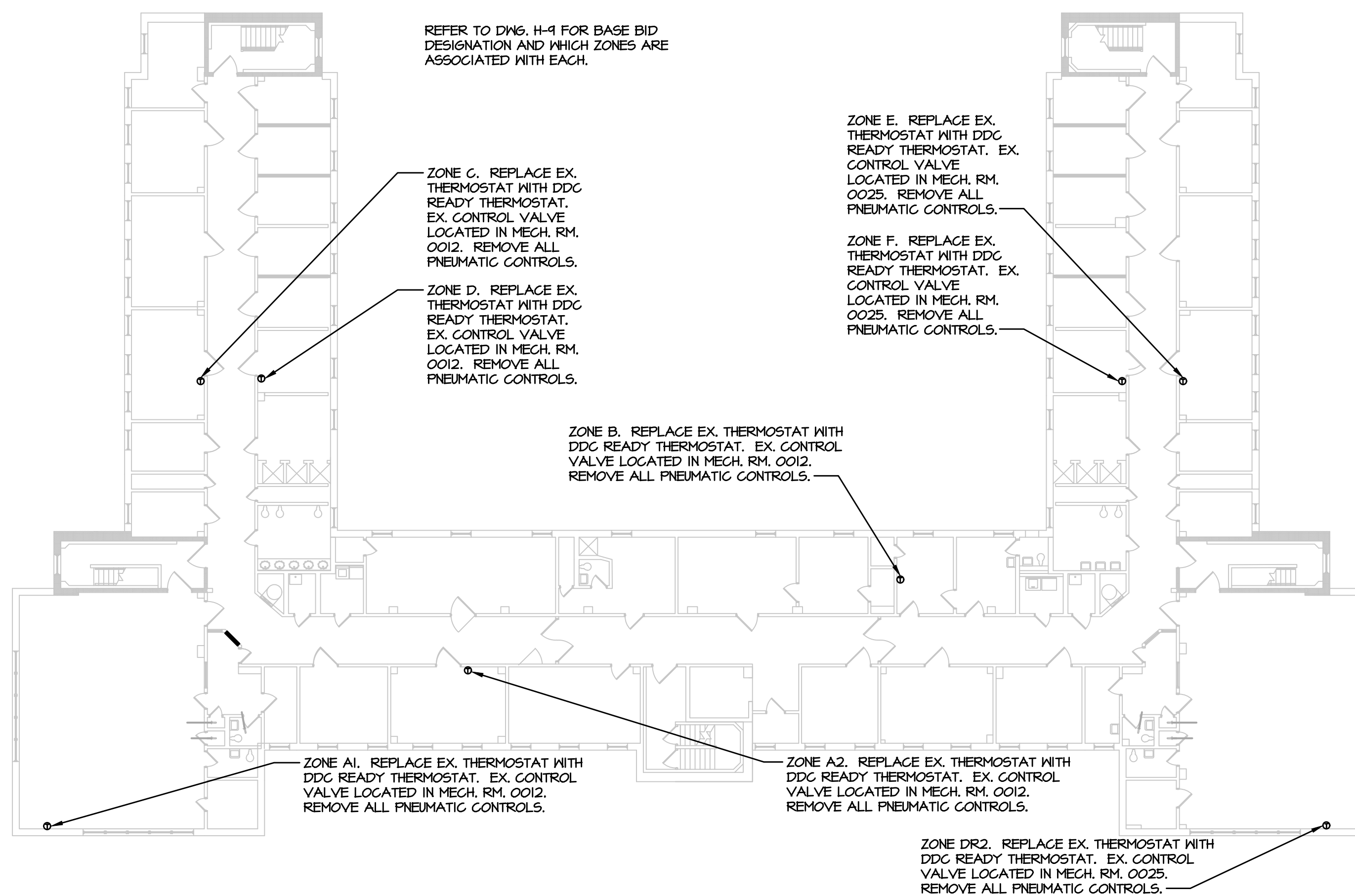
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

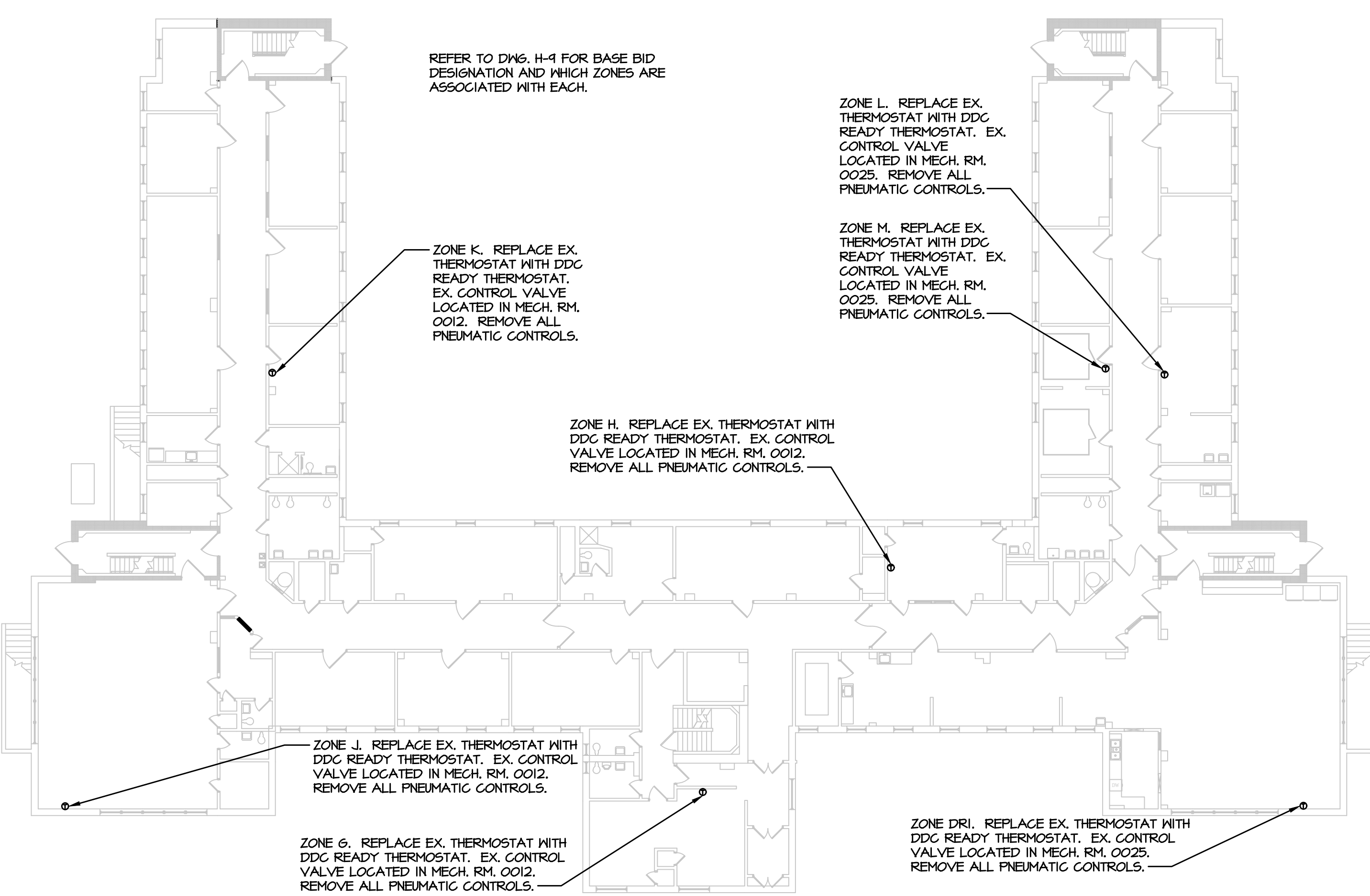
SECOND FLOOR PLAN - GREEN BUILDING
DUCTWORK

DRAWN BY	DATE	CONTROLS NO.
TJ	11/07/2024	
CHECKED BY	SCALE	
RL	AS NOTED	H-7

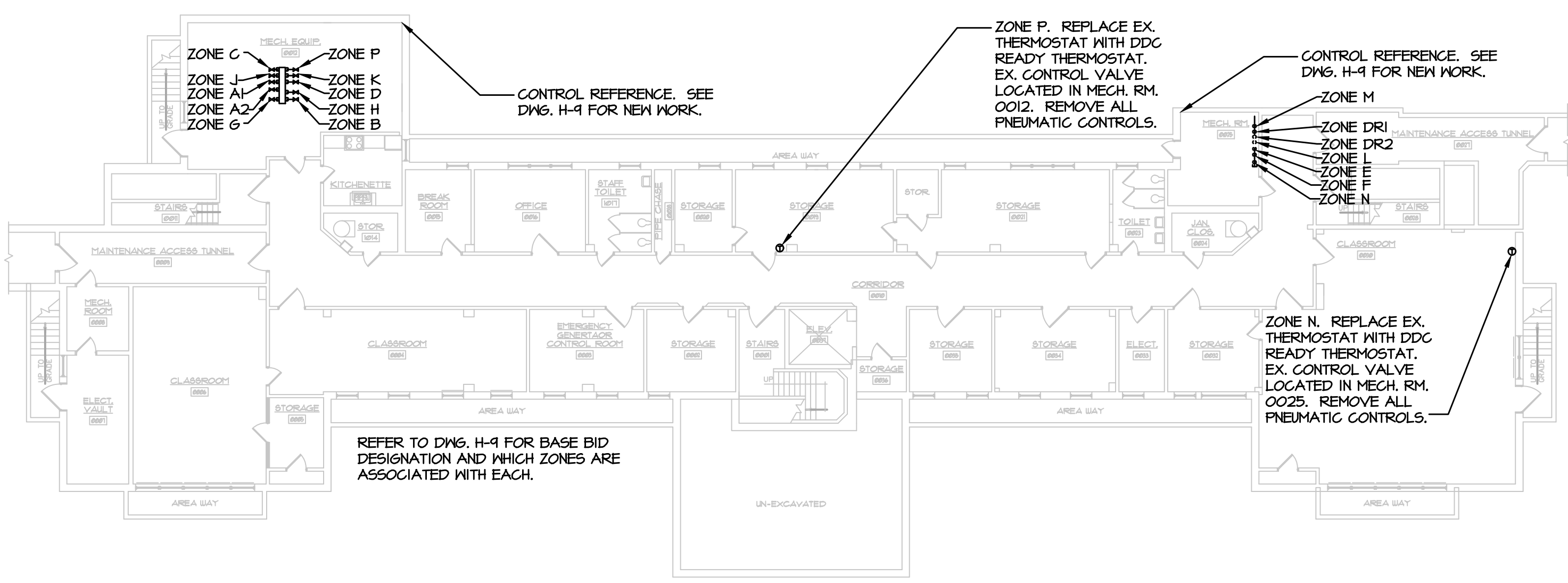
FOR CONSTRUCTION 11/07/2024



1 SECOND FLOOR PLAN - REED BUILDING - CONTROLS
H-8 SCALE: 1/16"=1'-0"



2 FIRST FLOOR PLAN - REED BUILDING - CONTROLS
H-8 SCALE: 1/16"=1'-0"



3 BASEMENT PLAN - REED BUILDING - CONTROLS
H-8 SCALE: 1/16"=1'-0"

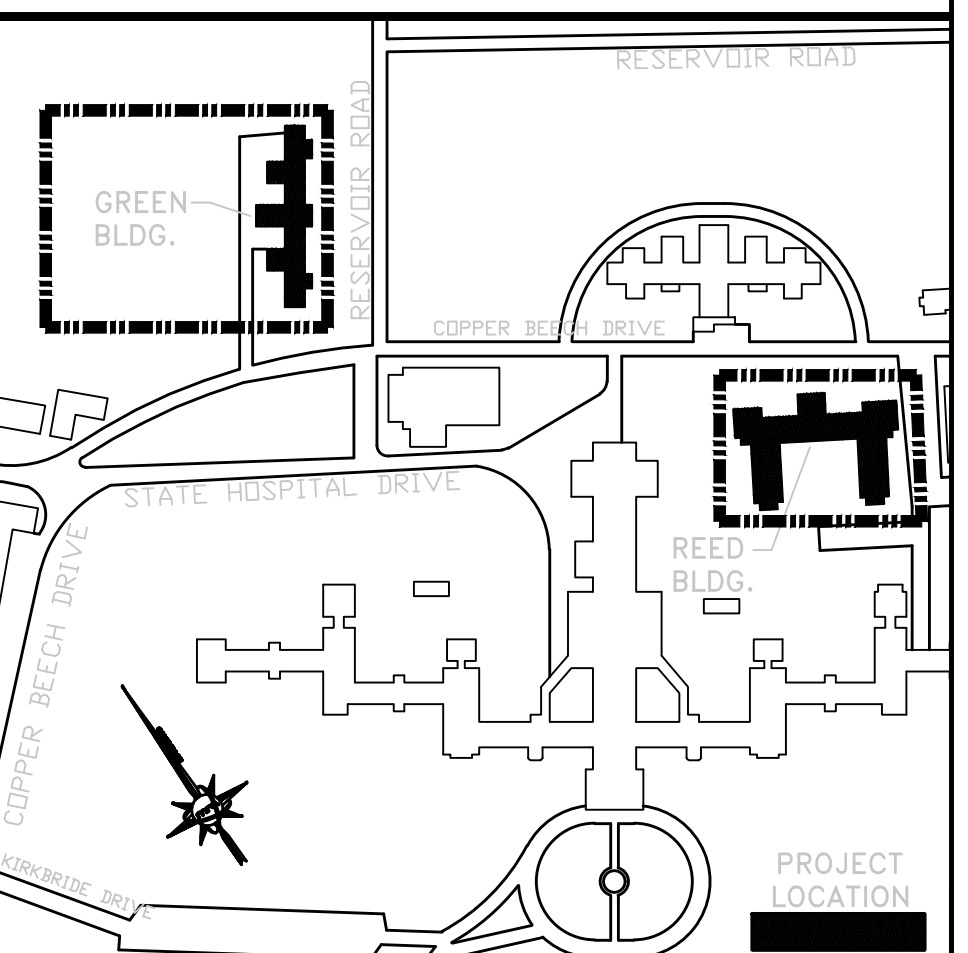
VERIFY SCALE

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



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KEY PLAN



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Professional's Signature: [Signature] Date: 11/07/2024
Consultant's Signature: [Signature] Date: [Blank]

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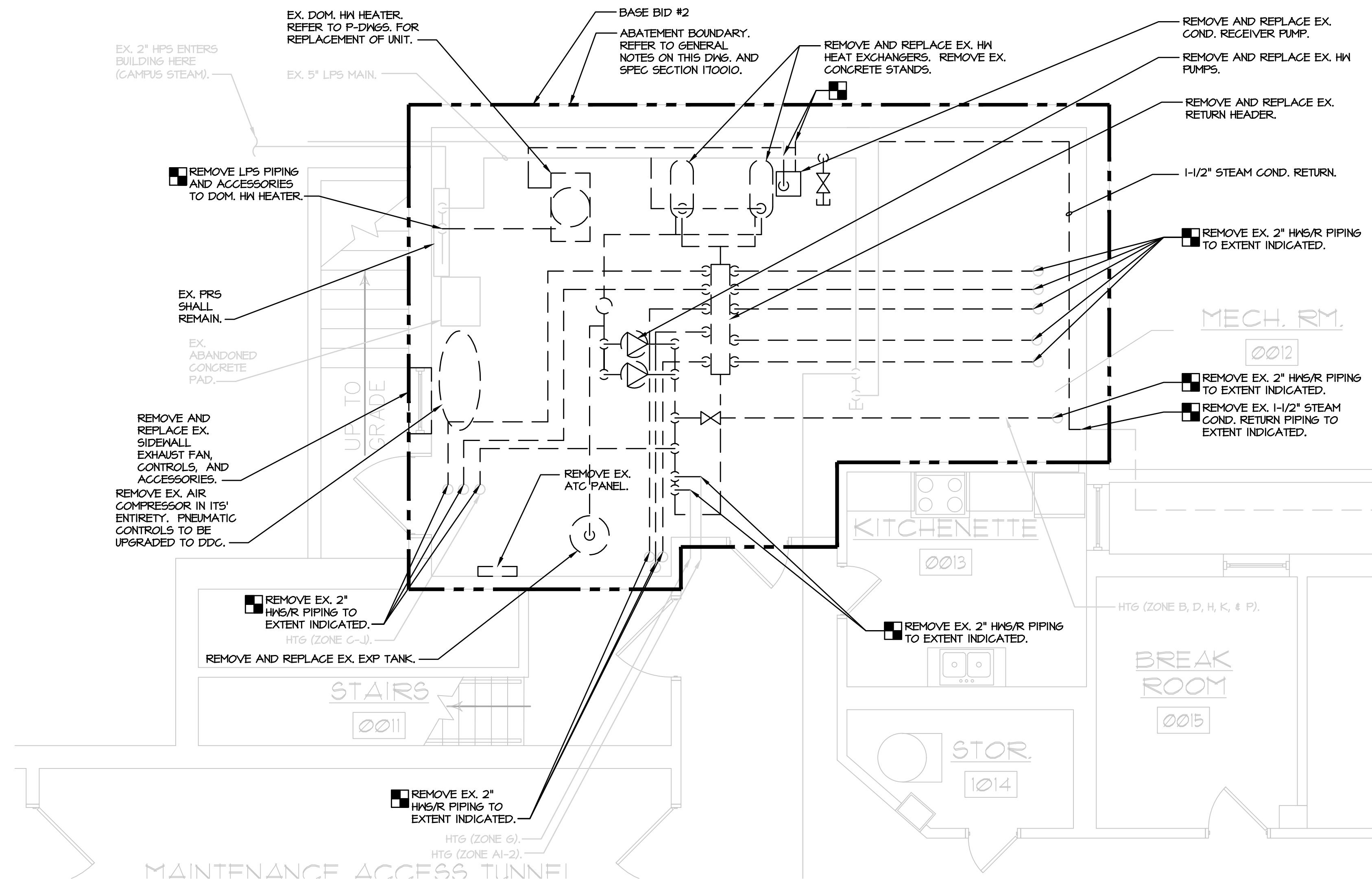
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

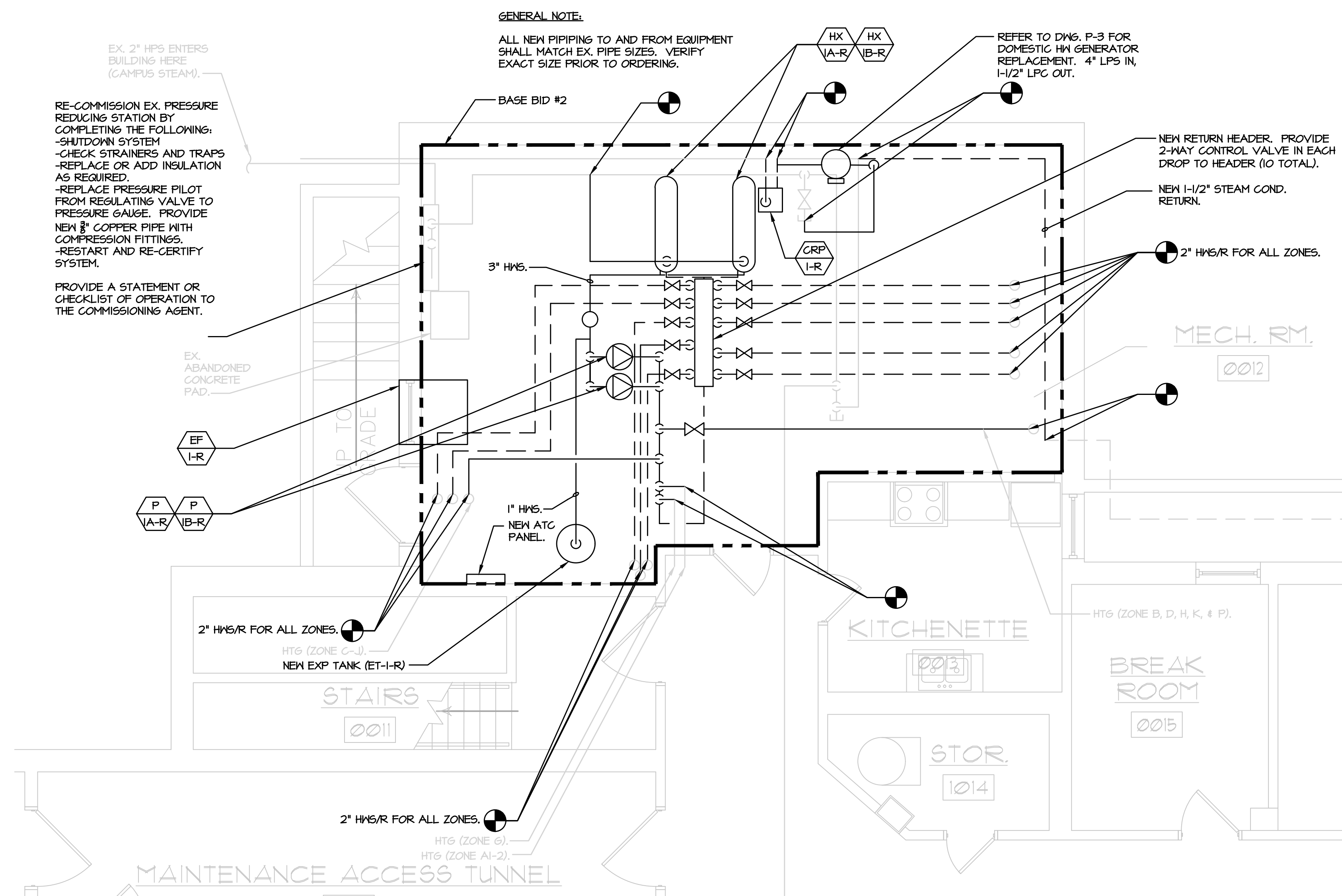
NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

FLOOR PLANS - REED BUILDING - CONTROLS

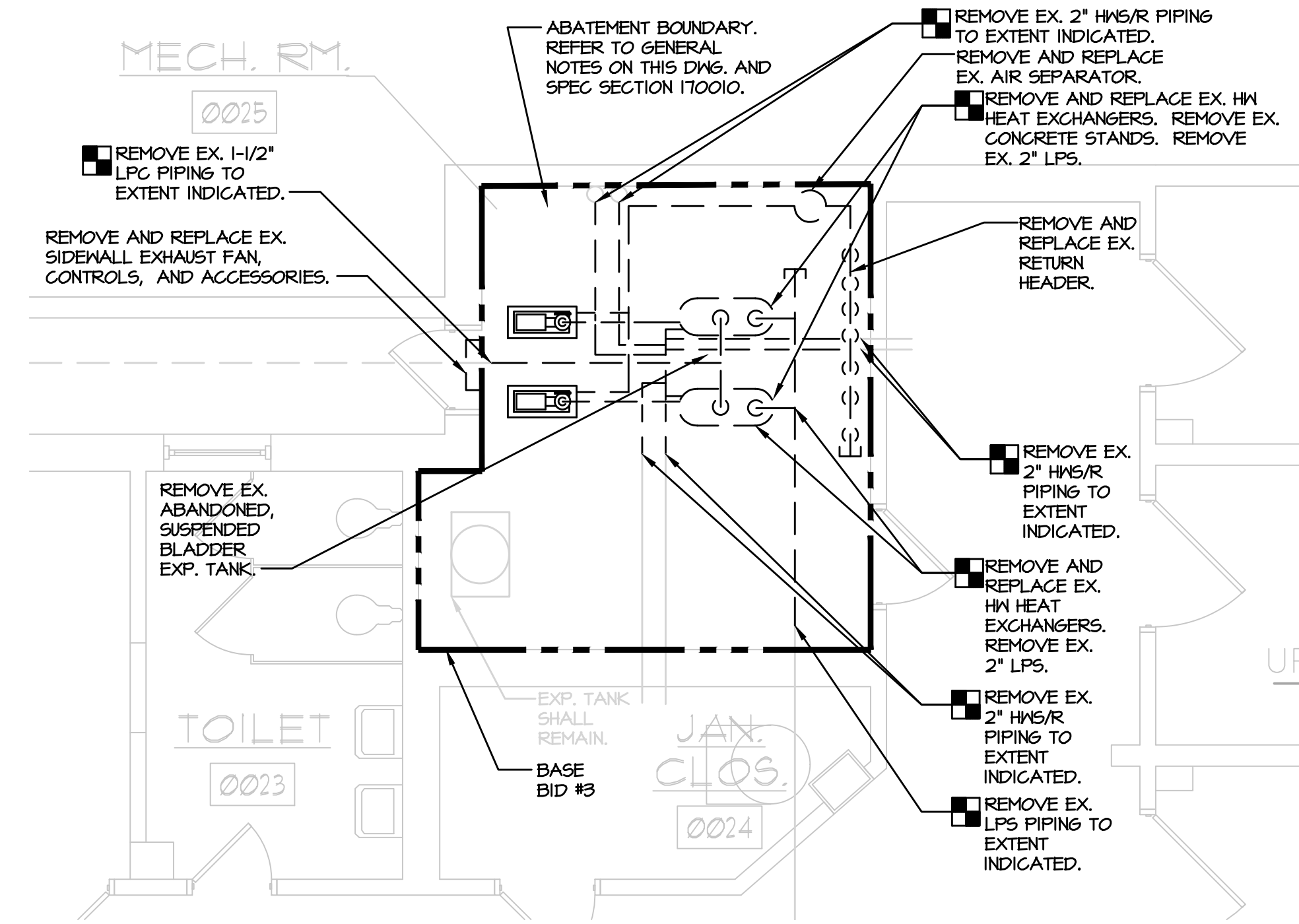
DRAWN BY: TJ	DATE: 11/07/2024	CONTROLS NO: H-8
CHECKED BY: RL	SCALE: AS NOTED	



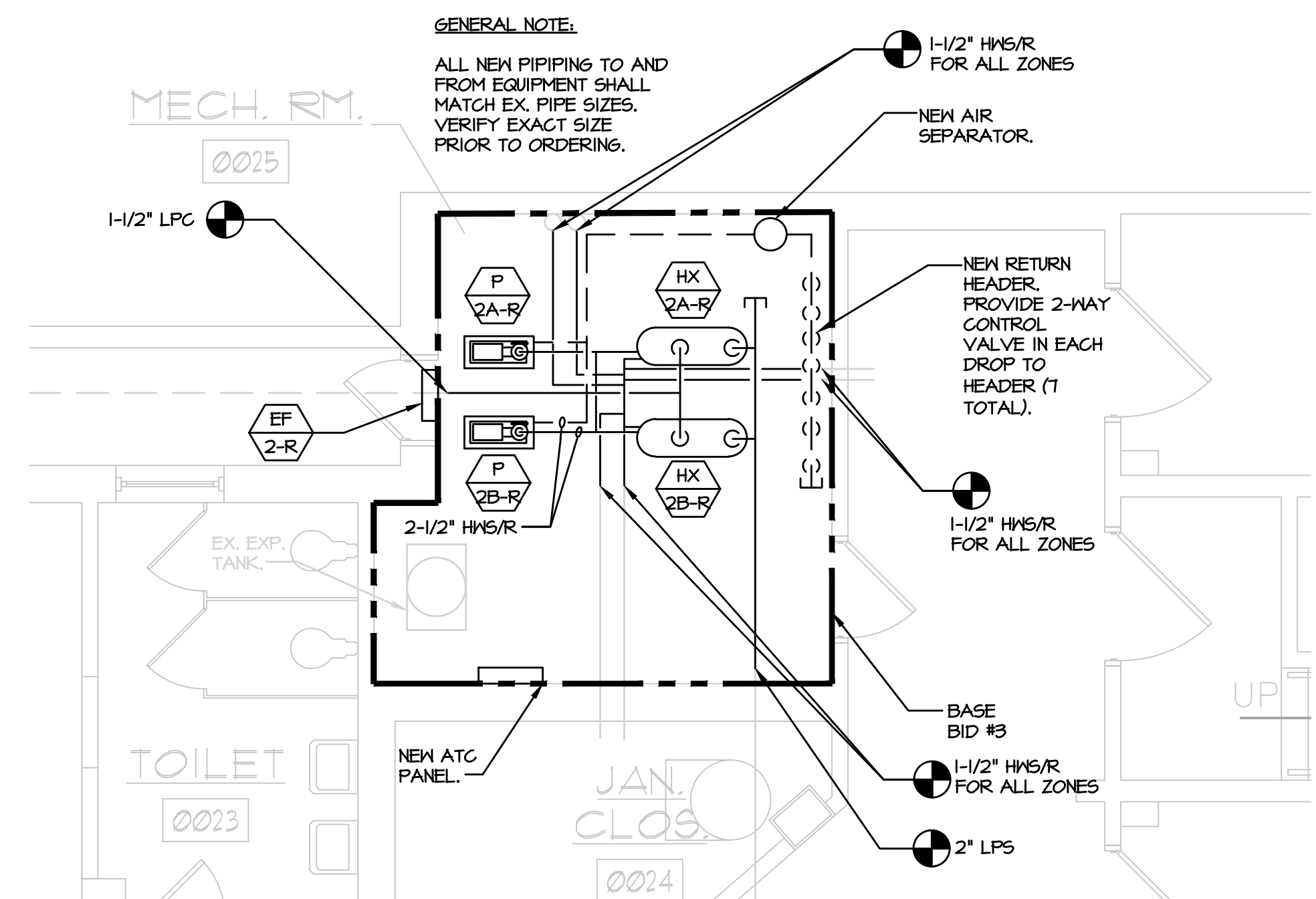
1 EX. BASEMENT MECH. RM. 0012 PLAN - REED BUILDING - DEMOLITION
H-9 SCALE: 1/4"=1'-0"



3 EX. BASEMENT MECH. RM. 0012 PLAN - REED BUILDING - PIPING
H-9 SCALE: 1/4"=1'-0"



2 EX. BASEMENT MECH. RM. 0025 PLAN - REED BUILDING - DEMOLITION
H-9 SCALE: 1/4"=1'-0"



4 EX. BASEMENT MECH. RM. 0025 PLAN - REED BUILDING - PIPING
H-9 SCALE: 1/4"=1'-0"

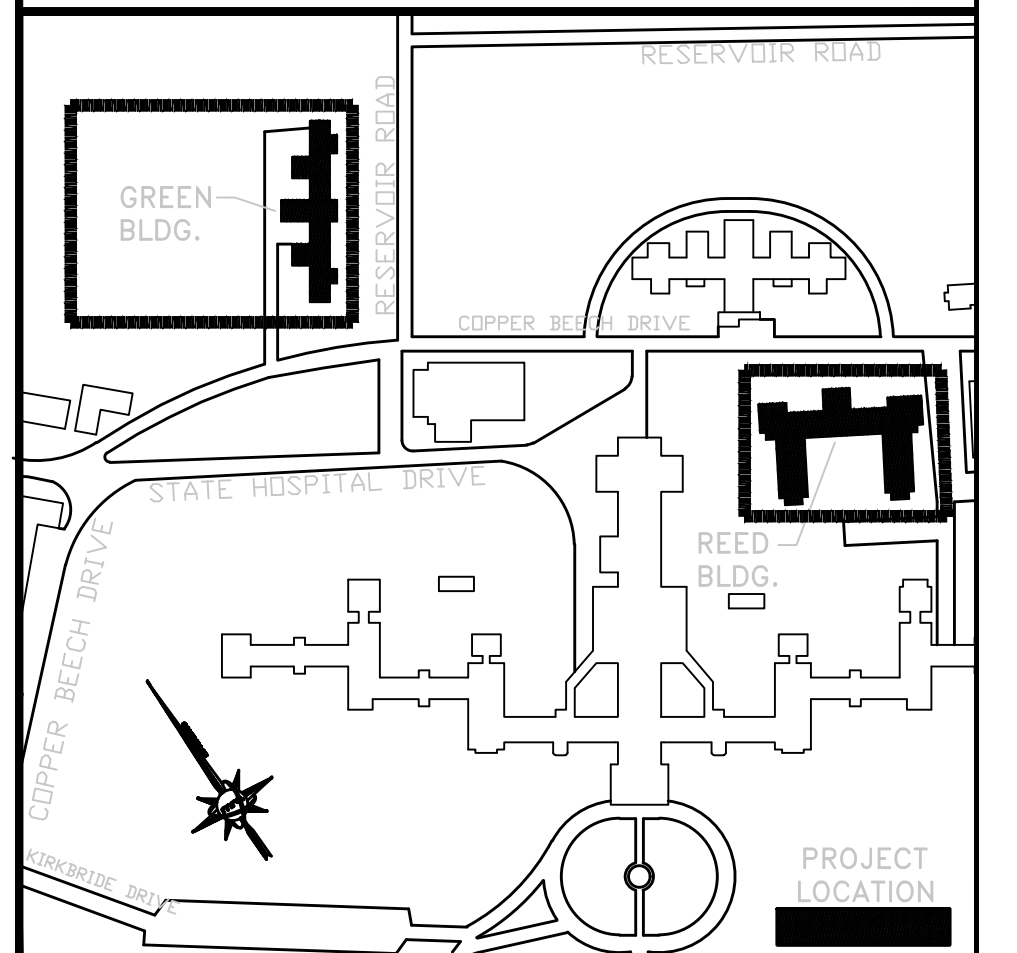
VERIFY SCALE

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



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

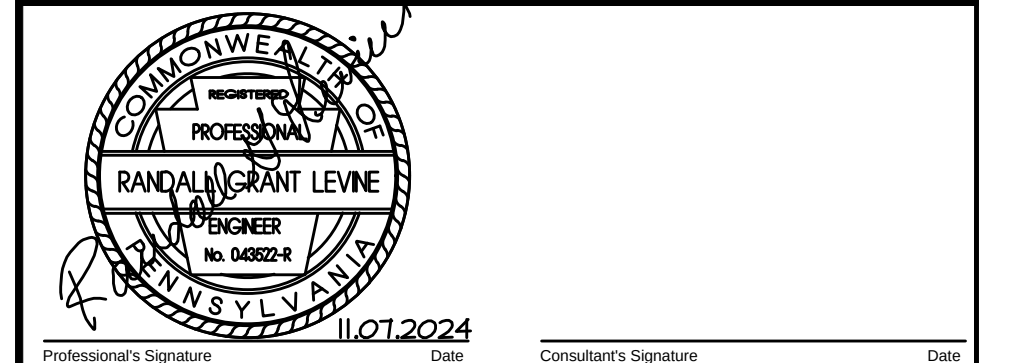
KEY PLAN



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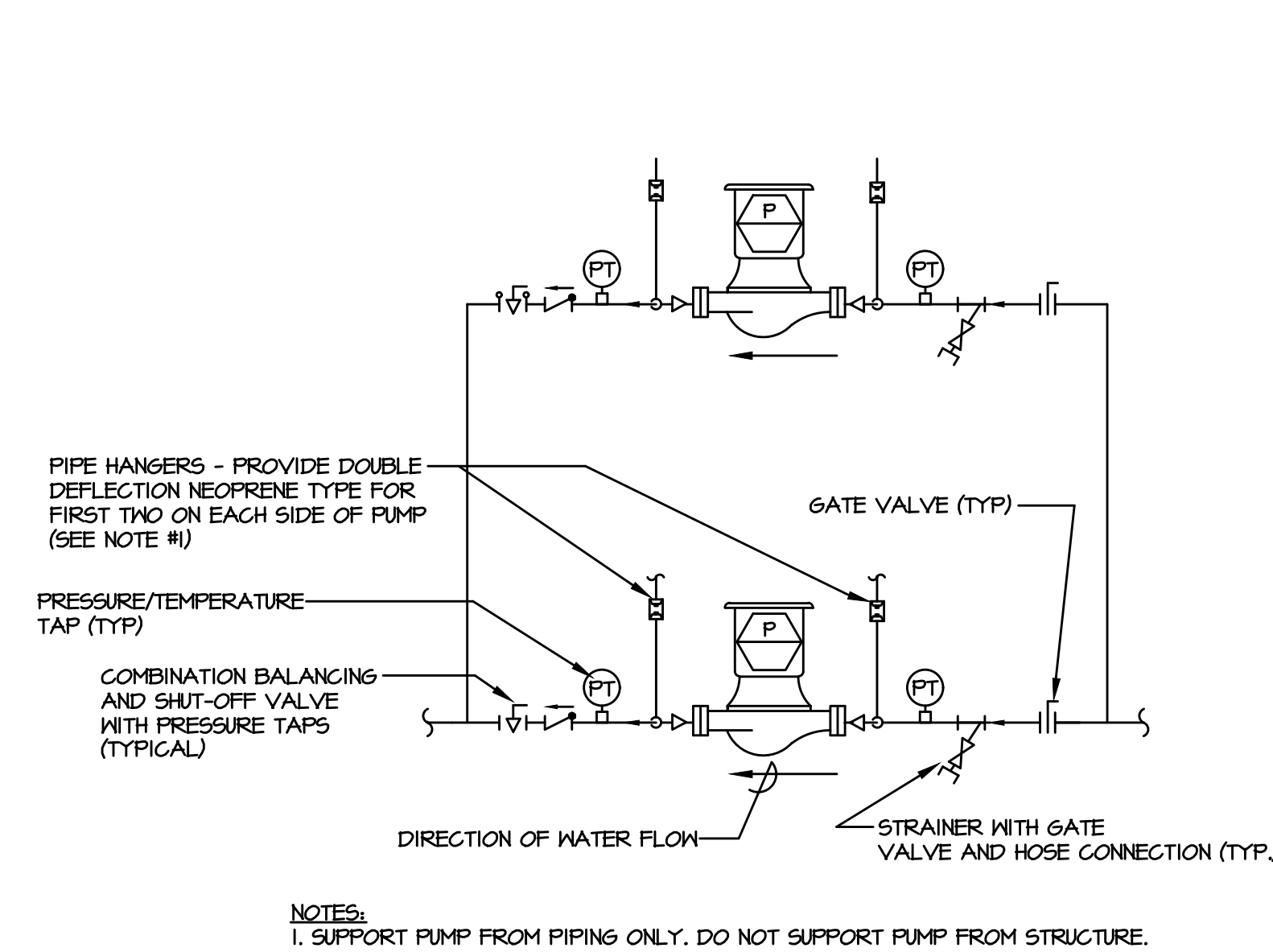
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

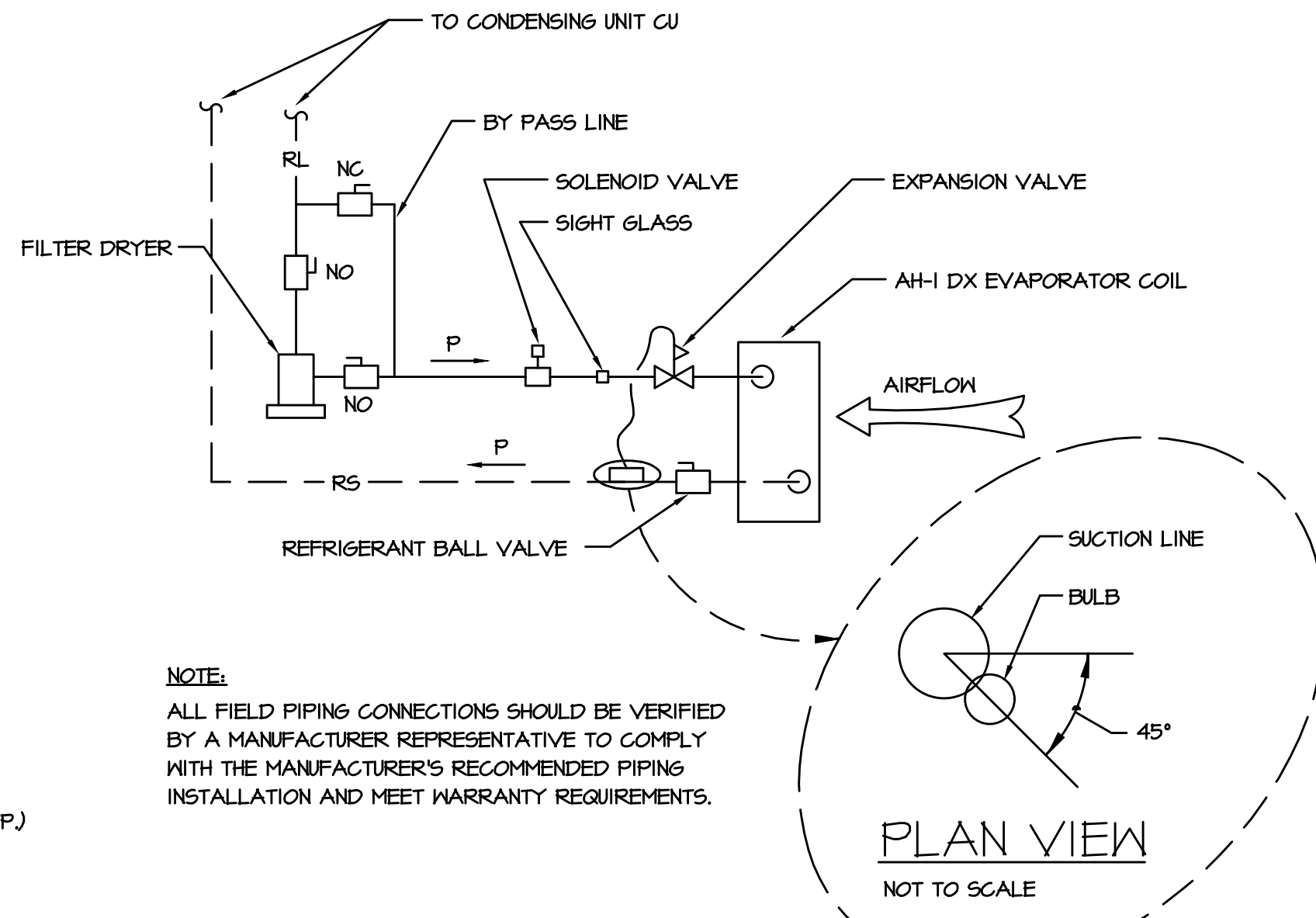
BASEMENT MECHANICAL ROOM PLANS - REED
BUILDING - DEMOLITION AND PIPING

DESIGNED BY: TJ	DATE: 11/07/2024	DRAWN BY: RL
CHECKED BY: RL	SCALE: AS NOTED	H-9

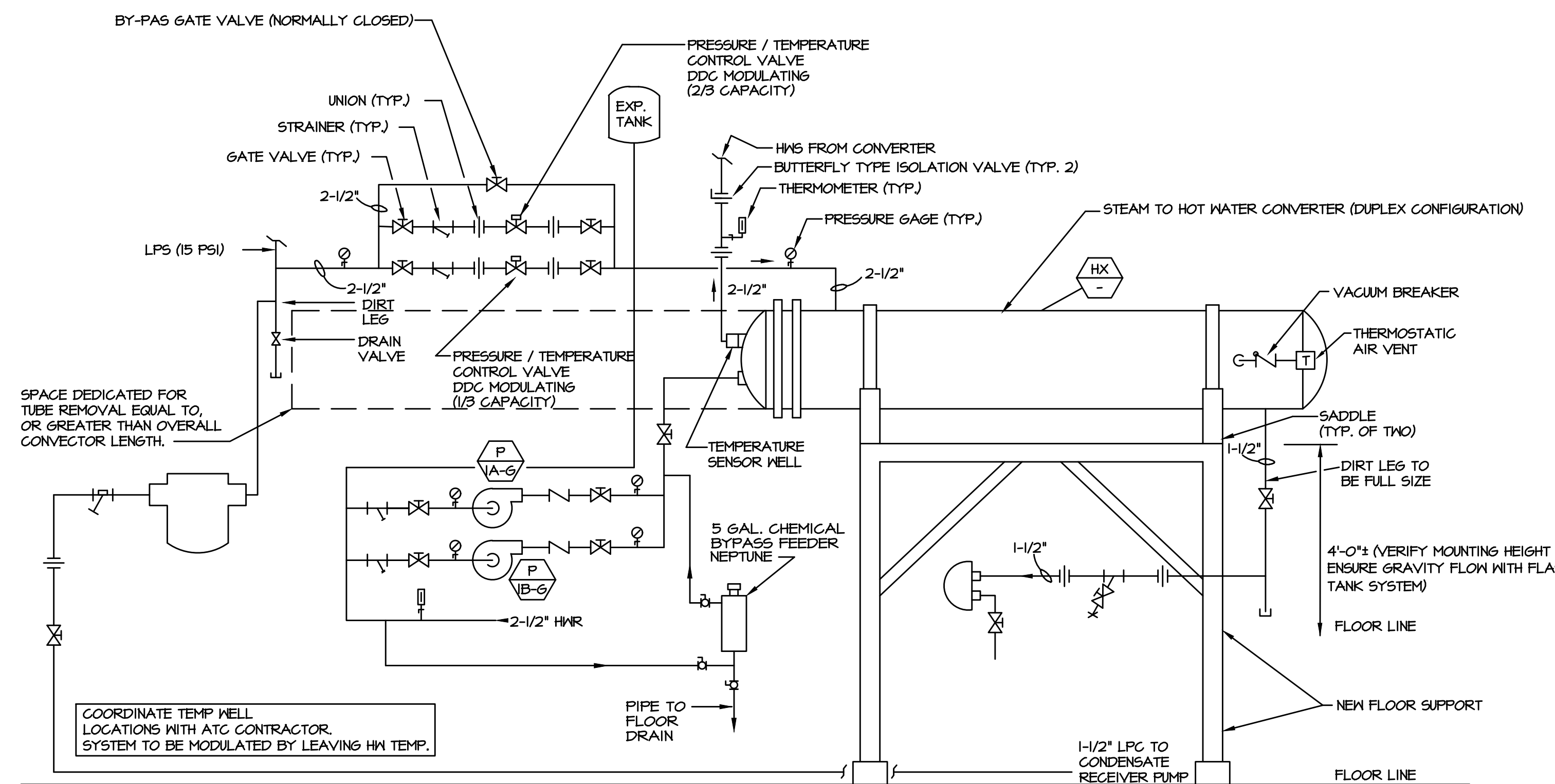
FOR CONSTRUCTION 11/07/2024



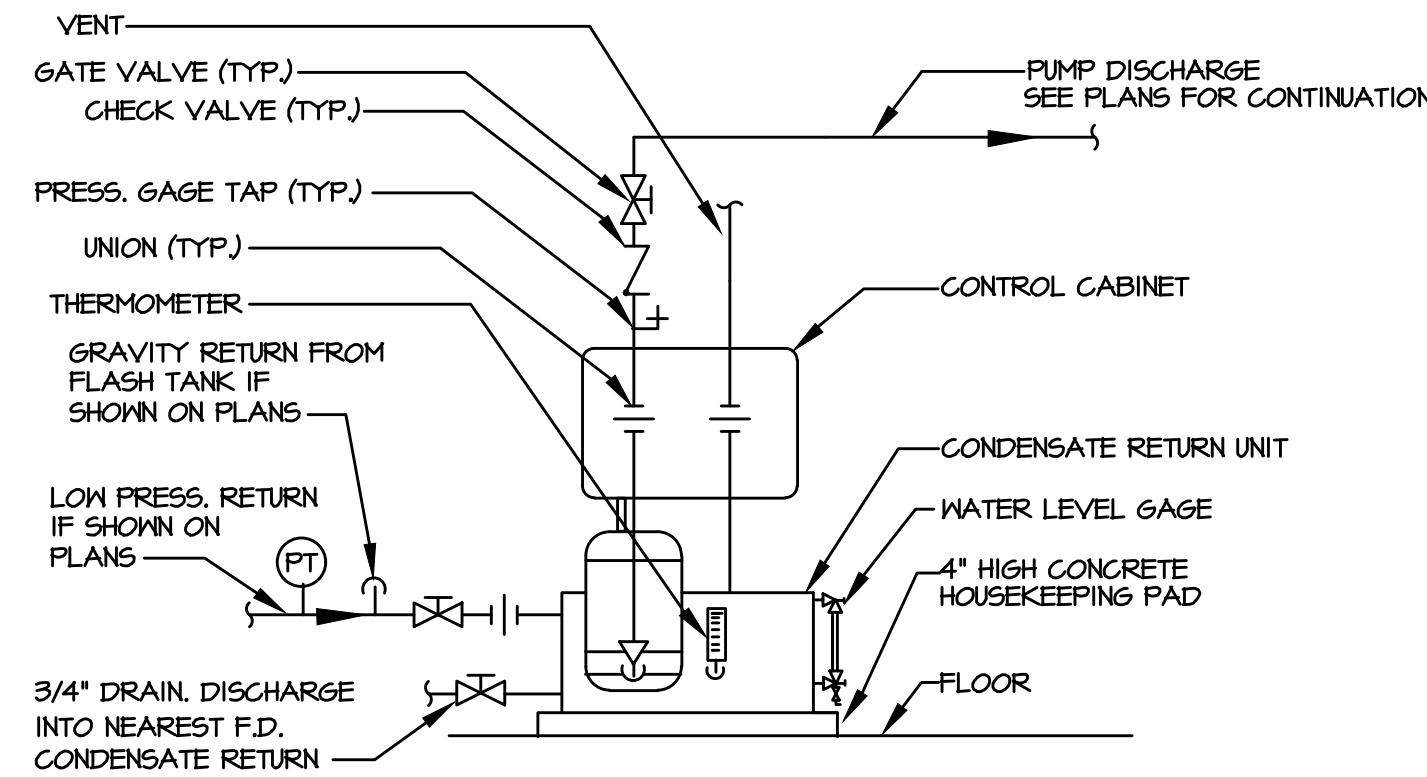
3 IN-LINE PUMP DETAIL
H-10 SCALE: NO SCALE



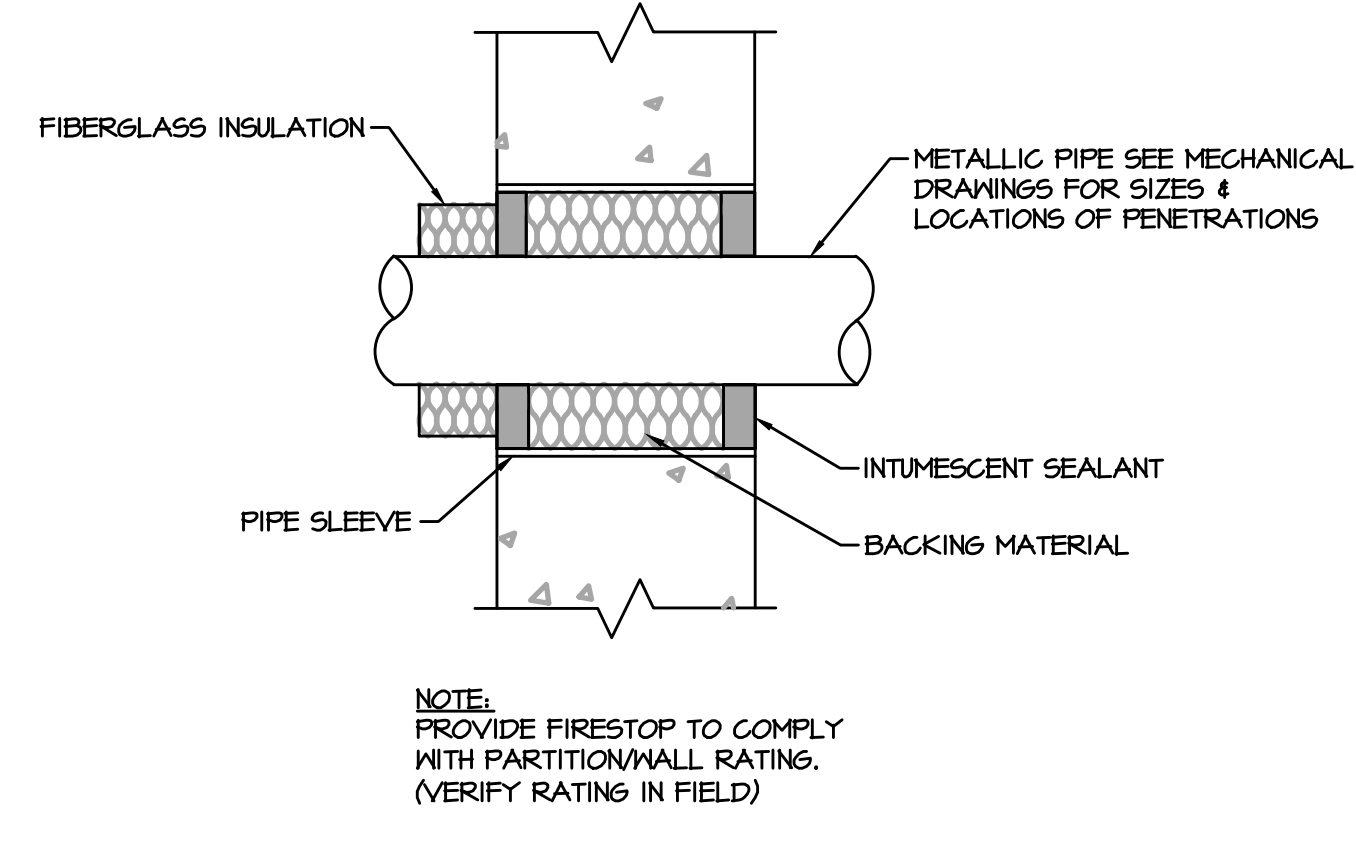
2 DX COOLING COIL PIPING DETAIL
H-10 SCALE: NO SCALE



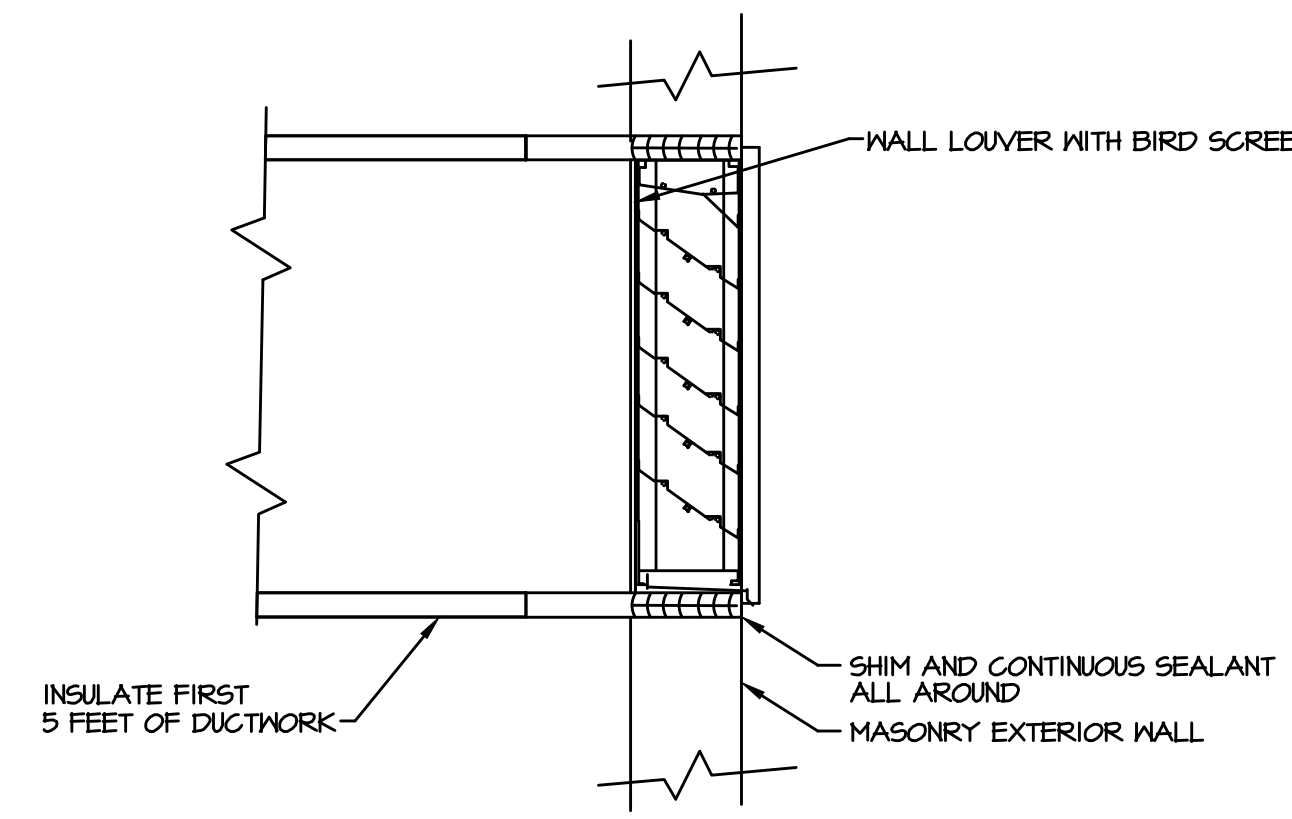
1 STEAM TO HOT WATER CONVERTER DETAIL (GREEN BUILDING)
H-10 SCALE: NO SCALE



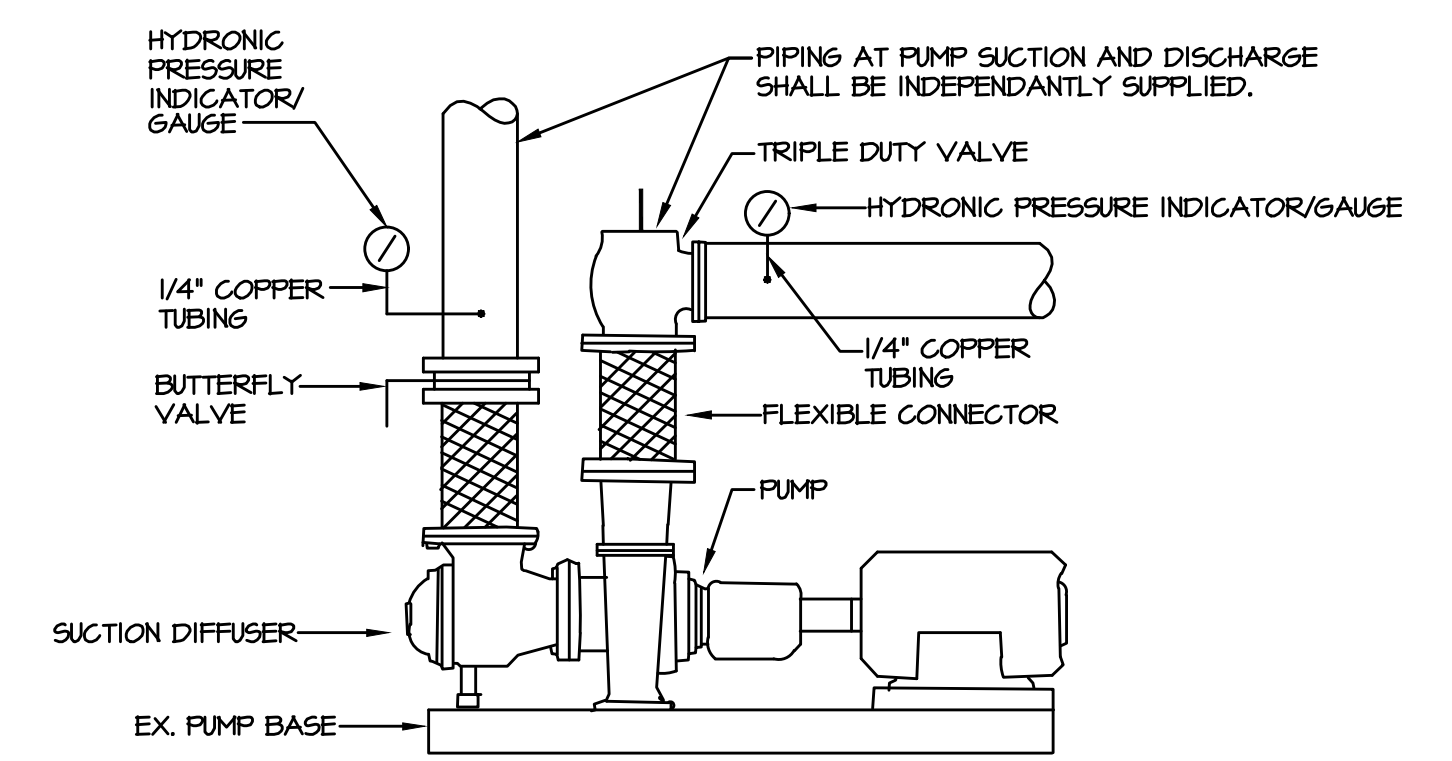
7 SIMPLEX CONDENSATE PUMP DETAIL
H-10 SCALE: NO SCALE



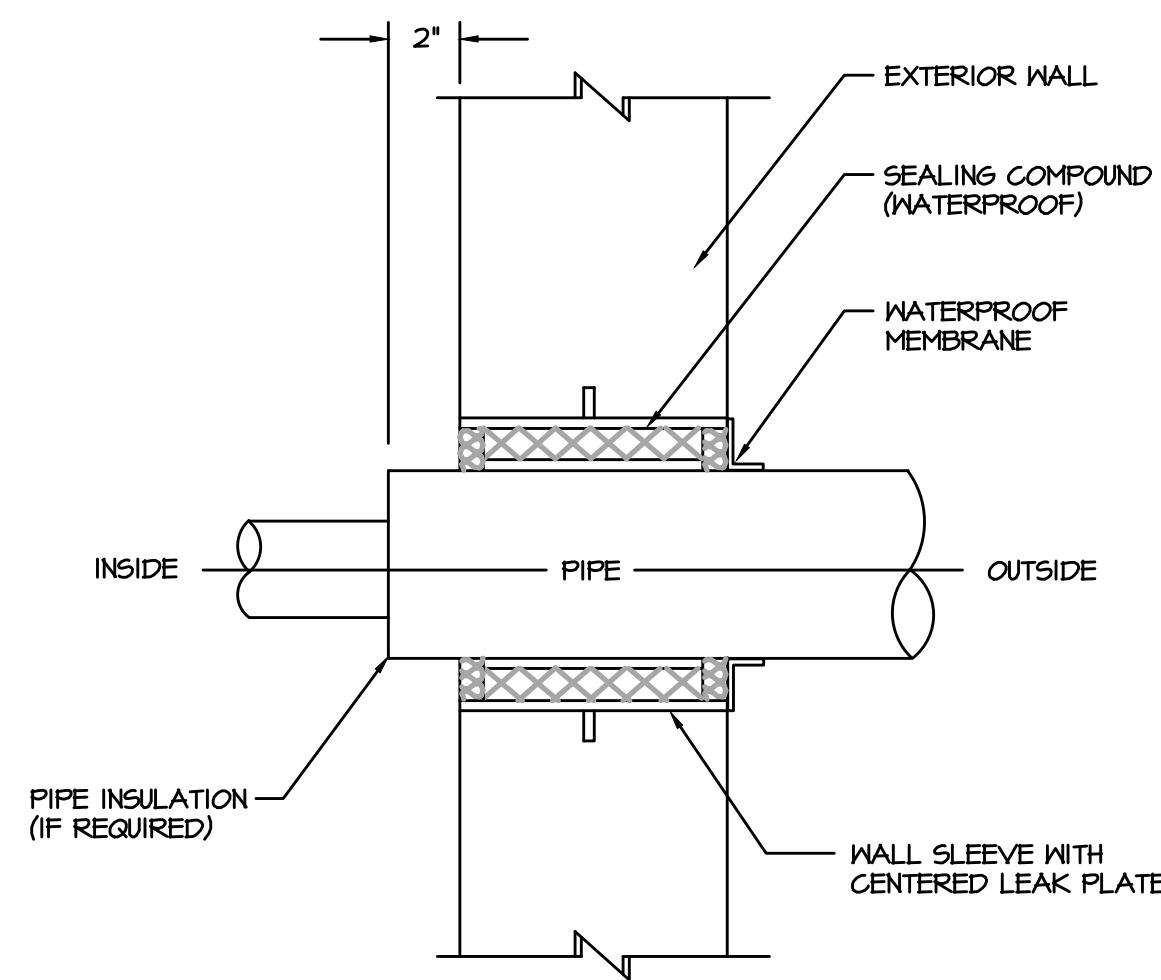
6 PIPE PENETRATION THRU INTERIOR WALL DETAIL
H-10 SCALE: NO SCALE



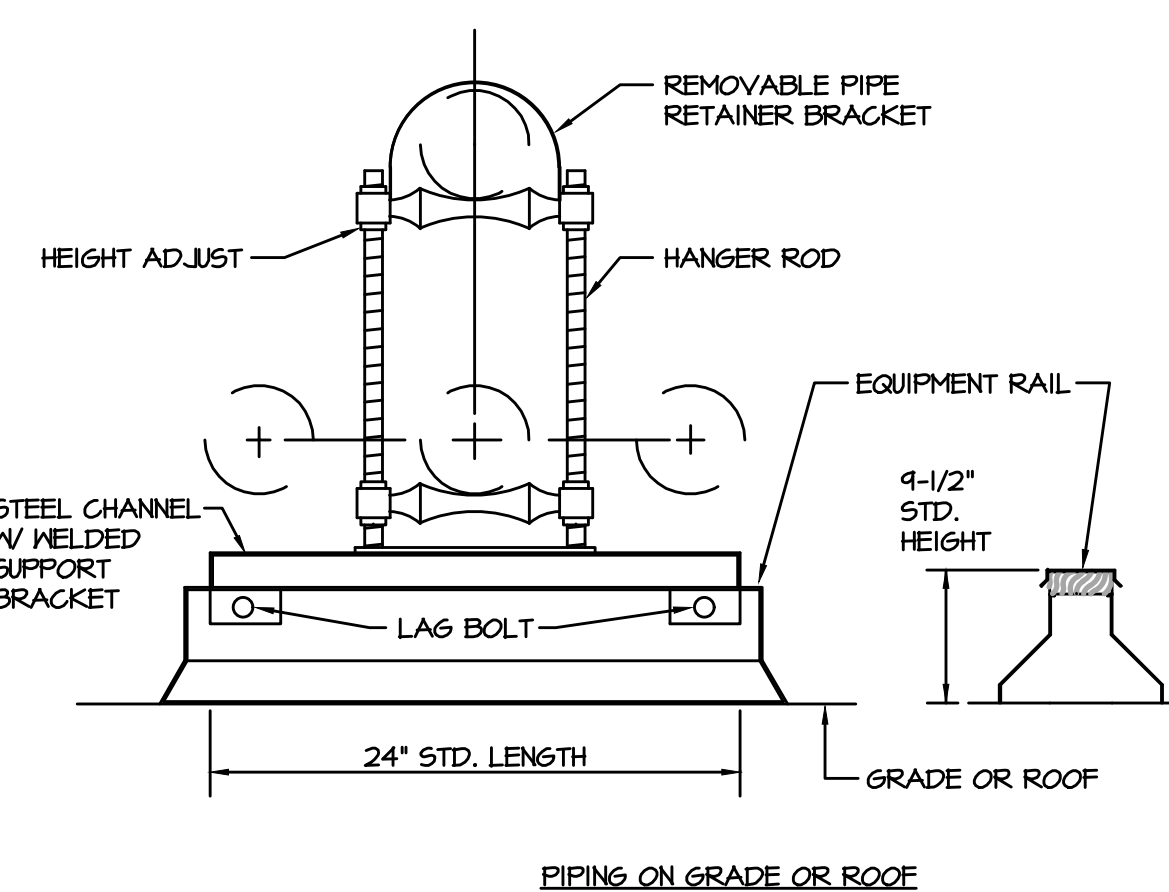
5 LOUVER DETAIL
H-10 SCALE: NO SCALE



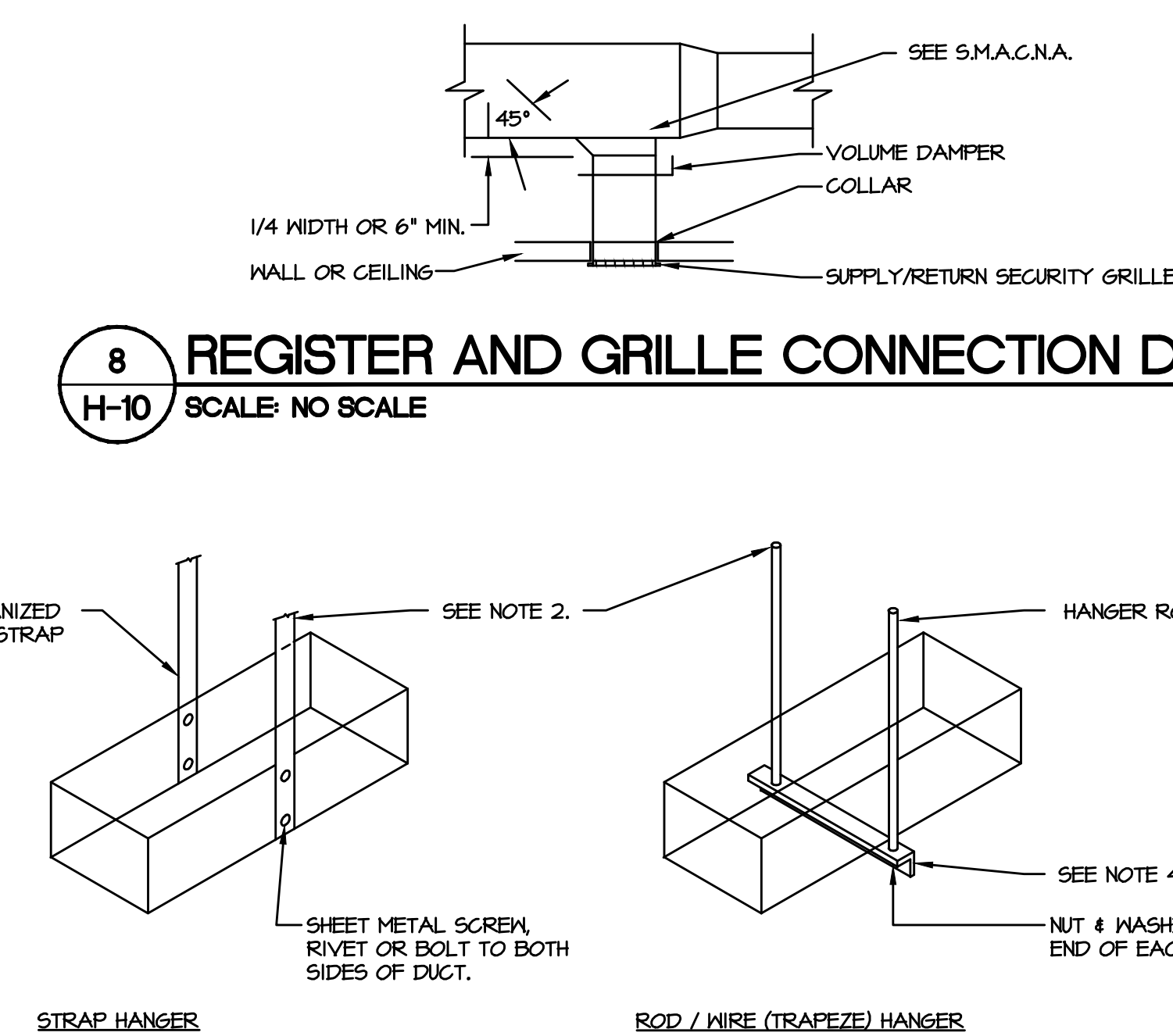
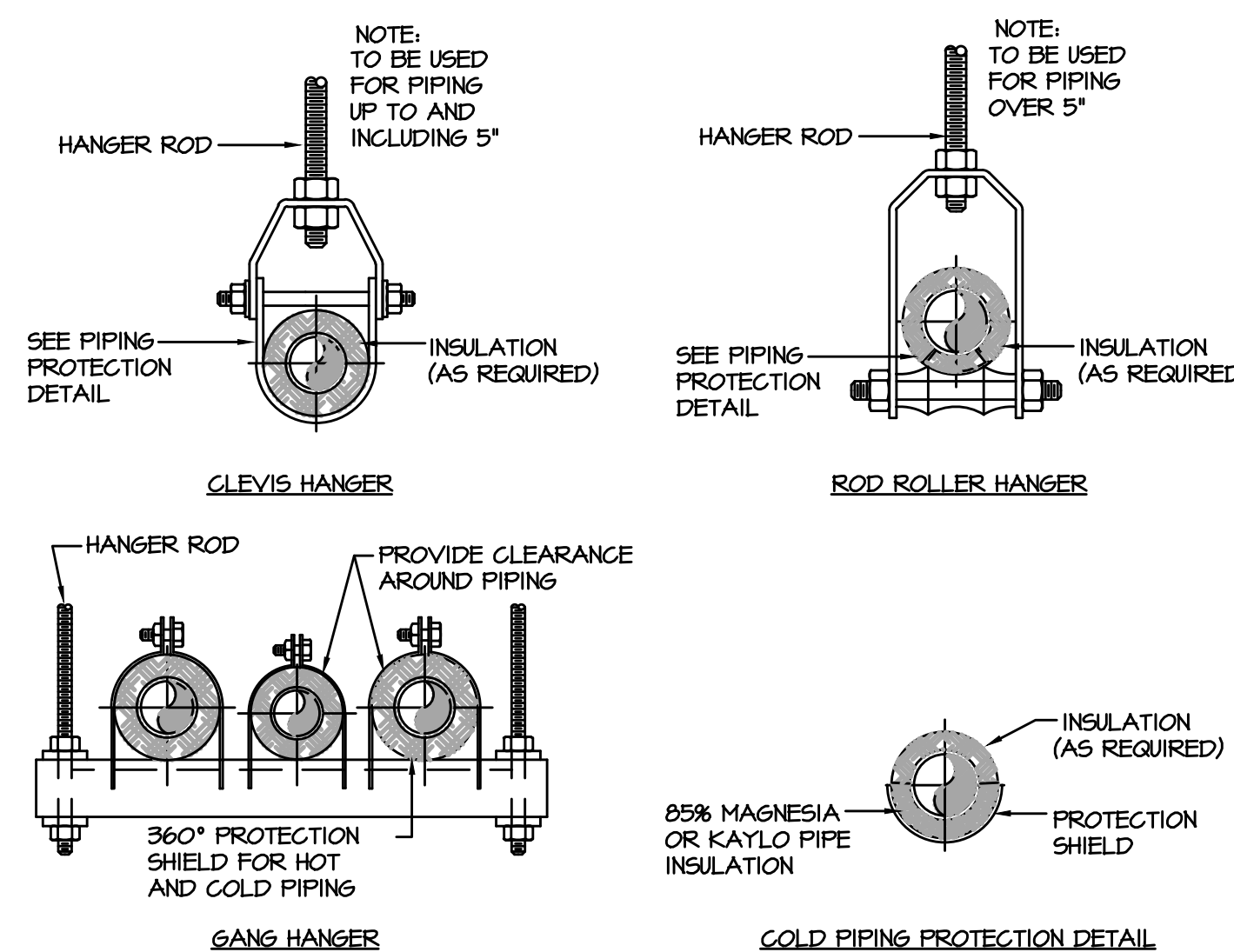
4 HOT WATER PUMP PIPING DETAIL
H-10 SCALE: NO SCALE



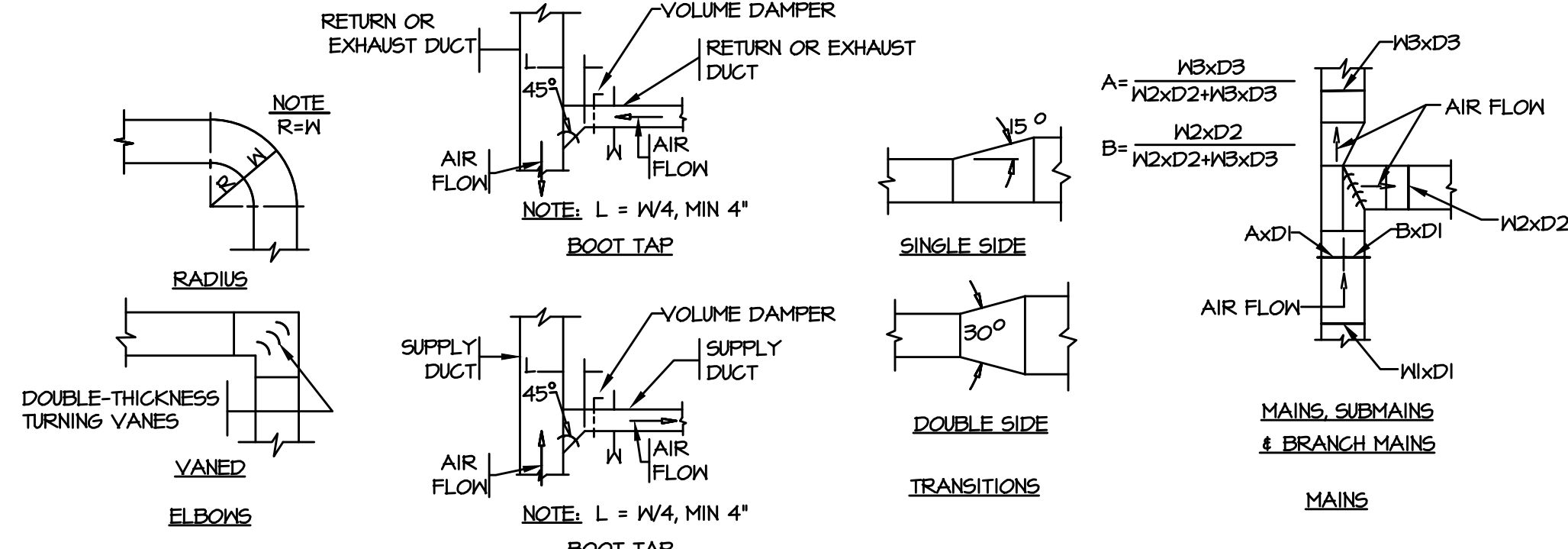
10 PIPE PENETRATION THRU EXTERIOR WALL DETAIL
H-10 SCALE: NO SCALE



9 HVAC PIPING SUPPORT DETAILS
H-10 SCALE: NO SCALE



8 REGISTER AND GRILLE CONNECTION DETAIL
H-10 SCALE: NO SCALE



12 TYPICAL DUCTWORK CONNECTIONS DETAILS
H-10 SCALE: NO SCALE

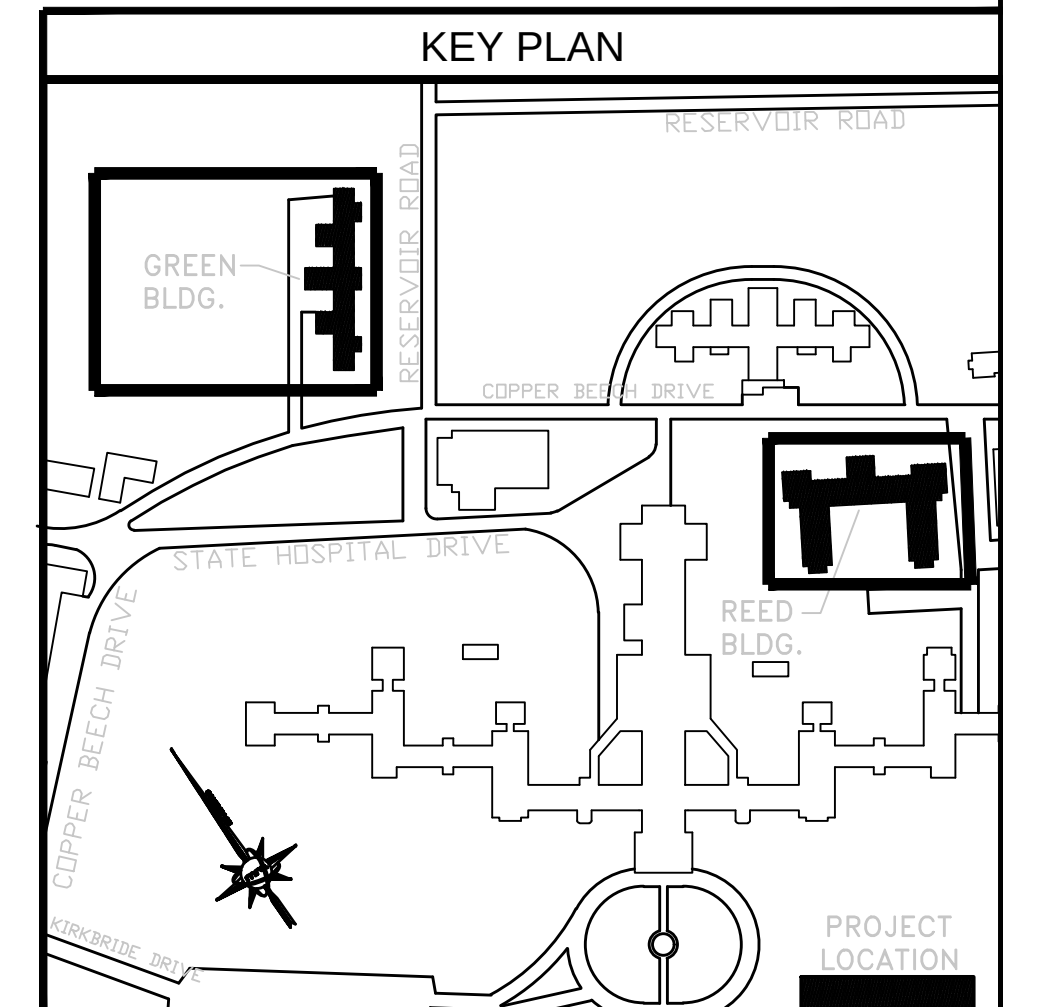
MAX. 16 GA. DUCT PERIMETER (IN)	PAIR AT 10 FT. SPACING		PAIR AT 8 FT. SPACING		PAIR AT 5 FT. SPACING		PAIR AT 4 FT. SPACING	
	STRAP	WIRE / ROD	STRAP	WIRE / ROD	STRAP	WIRE / ROD	STRAP	WIRE / ROD
UP TO 60"	1" x 22 GA.	10 GA. (135")	1" x 22 GA.	10 GA. (135")	1" x 22 GA.	12 GA. (106")	1" x 22 GA.	12 GA. (106")
61" TO 144"	1" x 18 GA.	3/8"	1" x 20 GA.	1/4"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"
145" TO 192"	1" x 16 GA.	3/8"	1" x 16 GA.	3/8"	1" x 20 GA.	3/8"	1" x 22 GA.	1/4"
193" TO 240"	1" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"	1" x 20 GA.	1/4"
241" TO 336"	1-1/2" x 16 GA.	1/2"	1-1/2" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"
337" TO 384"	NOT GIVEN	1/2"	1-1/2" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 16 GA.	3/8"
385" AND UP	SPECIAL ANALYSIS REQUIRED							

NOTES:

- FOR SEVERAL DUCTS ON ONE HANGER, ROD / WIRE TYPE HANGERS MAY BE USED. SIZE OF THE HANGER WILL BE SELECTED BY THE SUM OF THE DUCT PERIMETERS.
- DUCTS SHALL BE SUPPORTED FROM STRUCTURAL STEEL, NOT FLOOR DECK ABOVE.
- FOR MINIMUM FASTENERS AND MAXIMUM ALLOWABLE LOADS FOR HANGERS, SEE TABLE 5J. RECTANGULAR DUCT HANGER MINIMUM SIZE*.
- TRAPEZIE ANGLE SIZING SHALL COMPLY WITH TABLE 5-3 ALLOWABLE LOADS IN POUNDS FOR TRAPEZIE BARS**.
- STRAPS ARE GALVANIZED STEEL. OTHER MATERIALS ARE UNCOATED STEEL.
- 12, 10, OR 8 GA. WIRE IS STEEL OF BLACK ANNEALED, BRIGHT BASIC, OR GALVANIZED TYPE.
- TABLE ALLOWS FOR DUCT HEIGHT, 1 LB/SF INSULATION HEIGHT AND NORMAL REINFORCEMENT AND TRAPEZIE HEIGHT, BUT NO EXTERNAL LOADS.

* ALL SPECIFICATIONS AND TABLE REFERENCES LISTED ABOVE ARE TAKEN FROM THE THIRD EDITION - 2005 SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE".

11 DUCT HANGER DETAILS
H-10 SCALE: NO SCALE



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AS BUILT REVISIONS

Professional's Signature: Date: 11/07/2024

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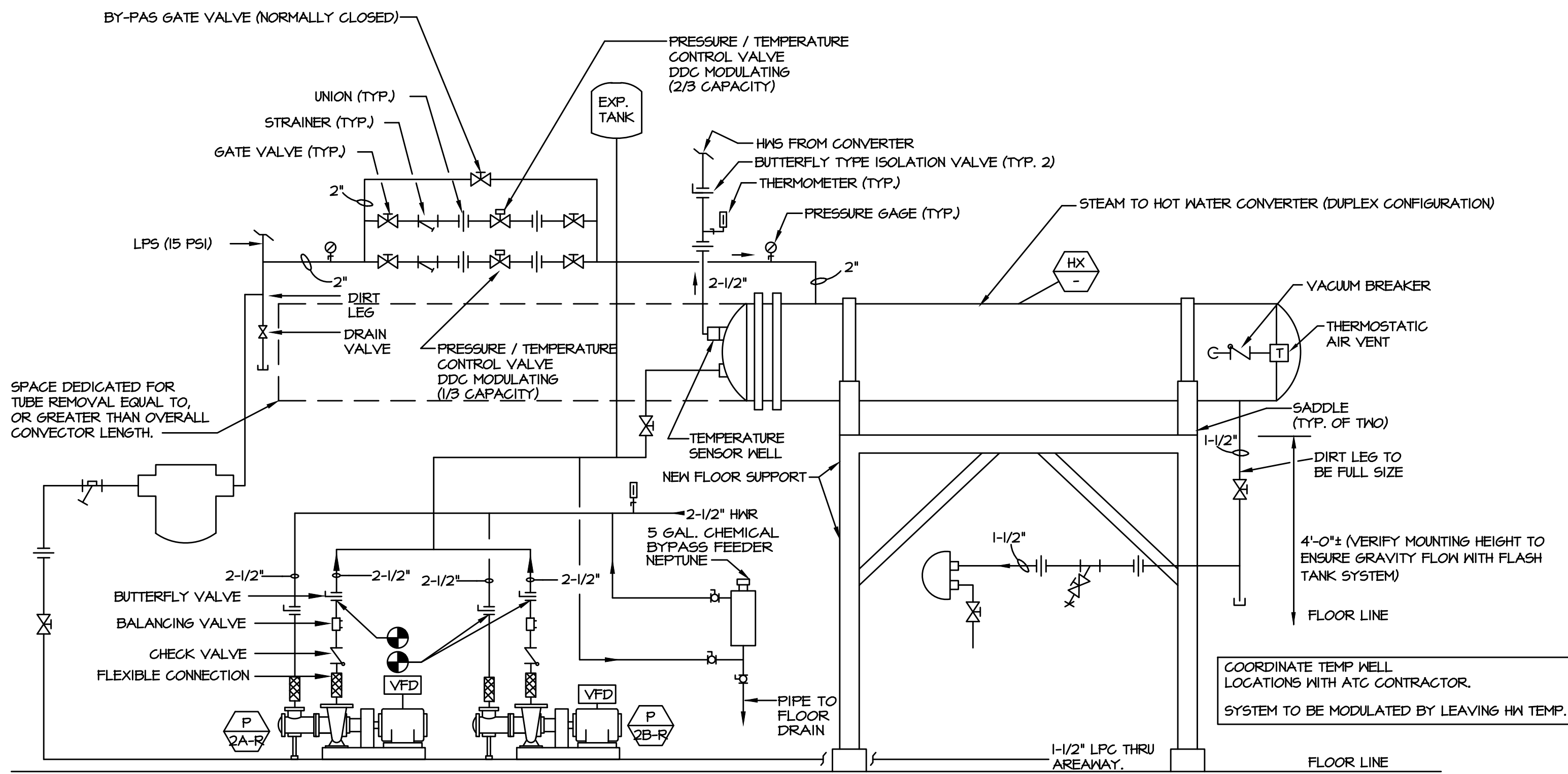
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

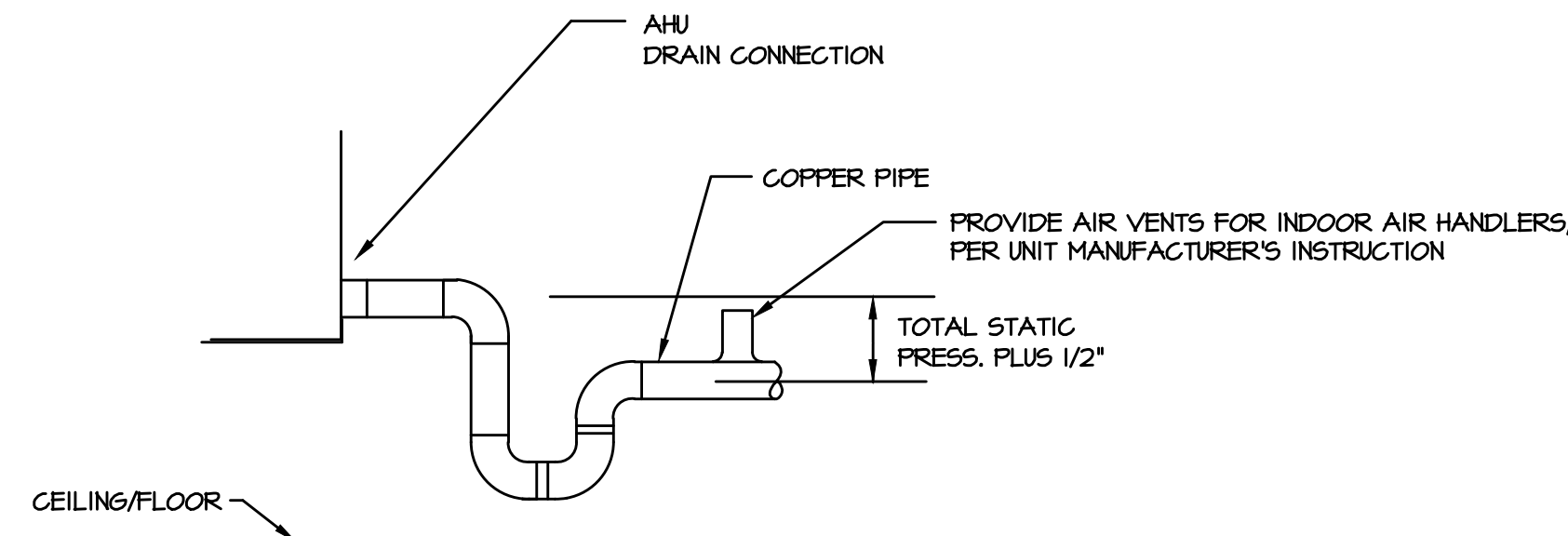
NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

DETAILS

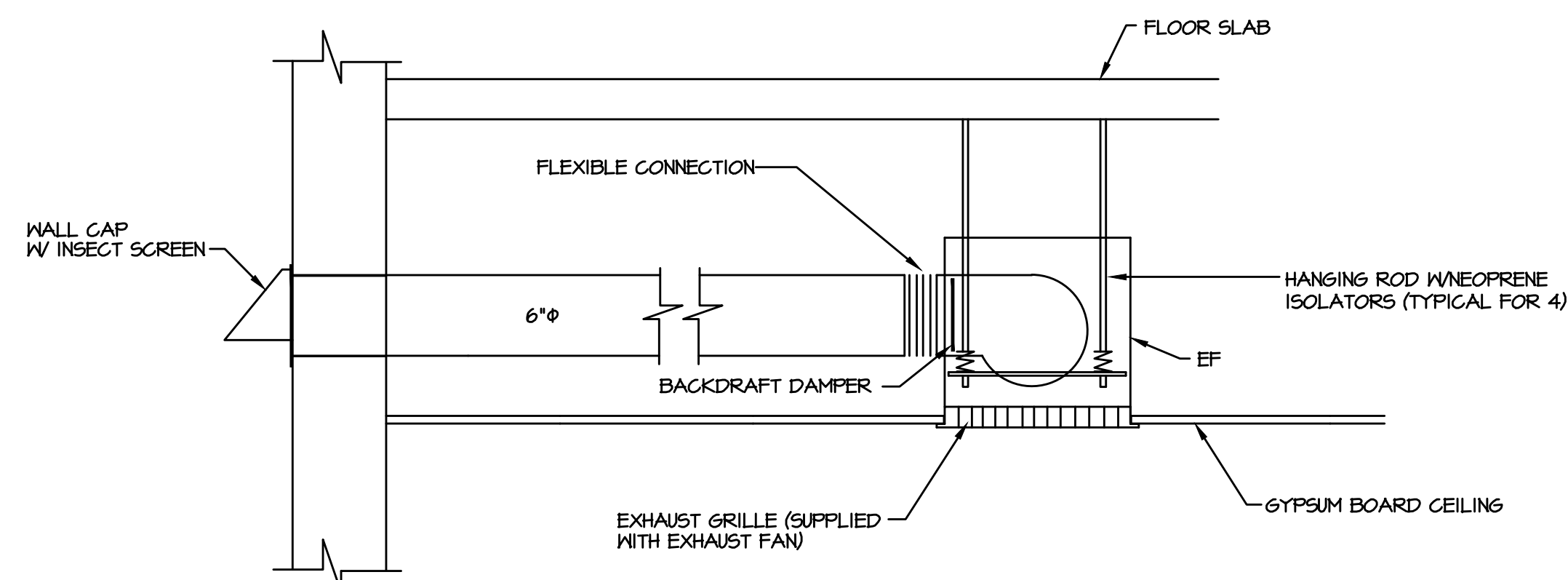
DRAWN BY: TJ	DATE: 11/07/2024	CONTROLLING NO.:
CHECKED BY: RL	SCALE: AS NOTED	H-10



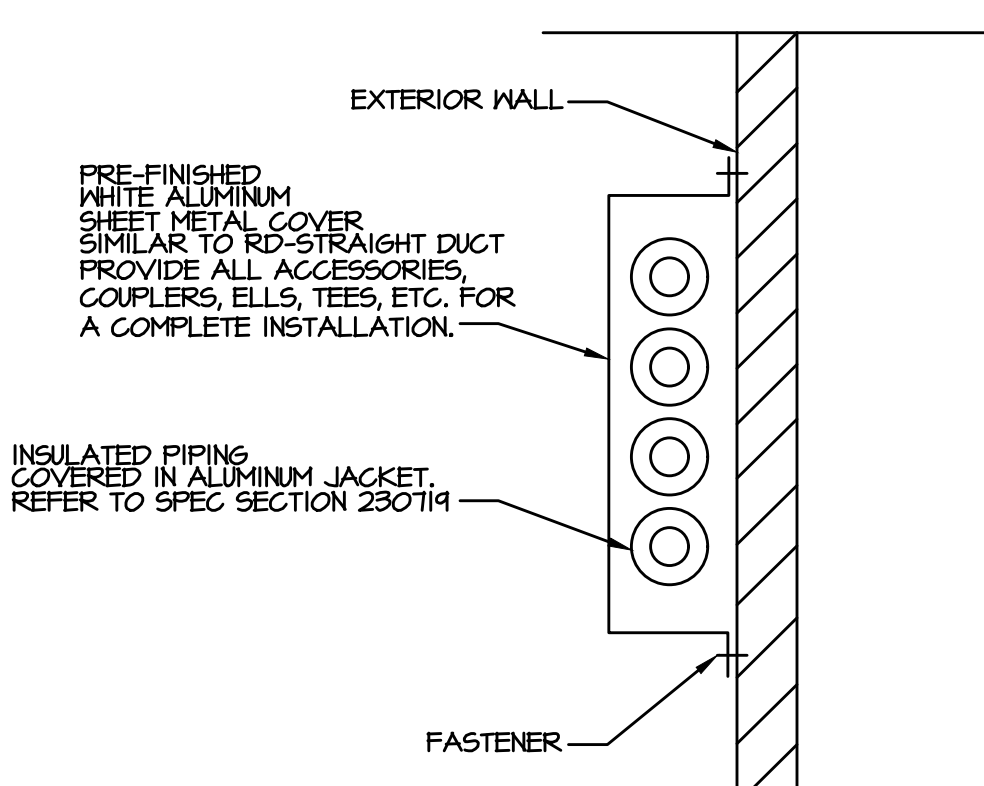
2 STEAM TO HOT WATER CONVERTER DETAIL (REED BUILDING - MR 0025)
H-11 SCALE: NO SCALE



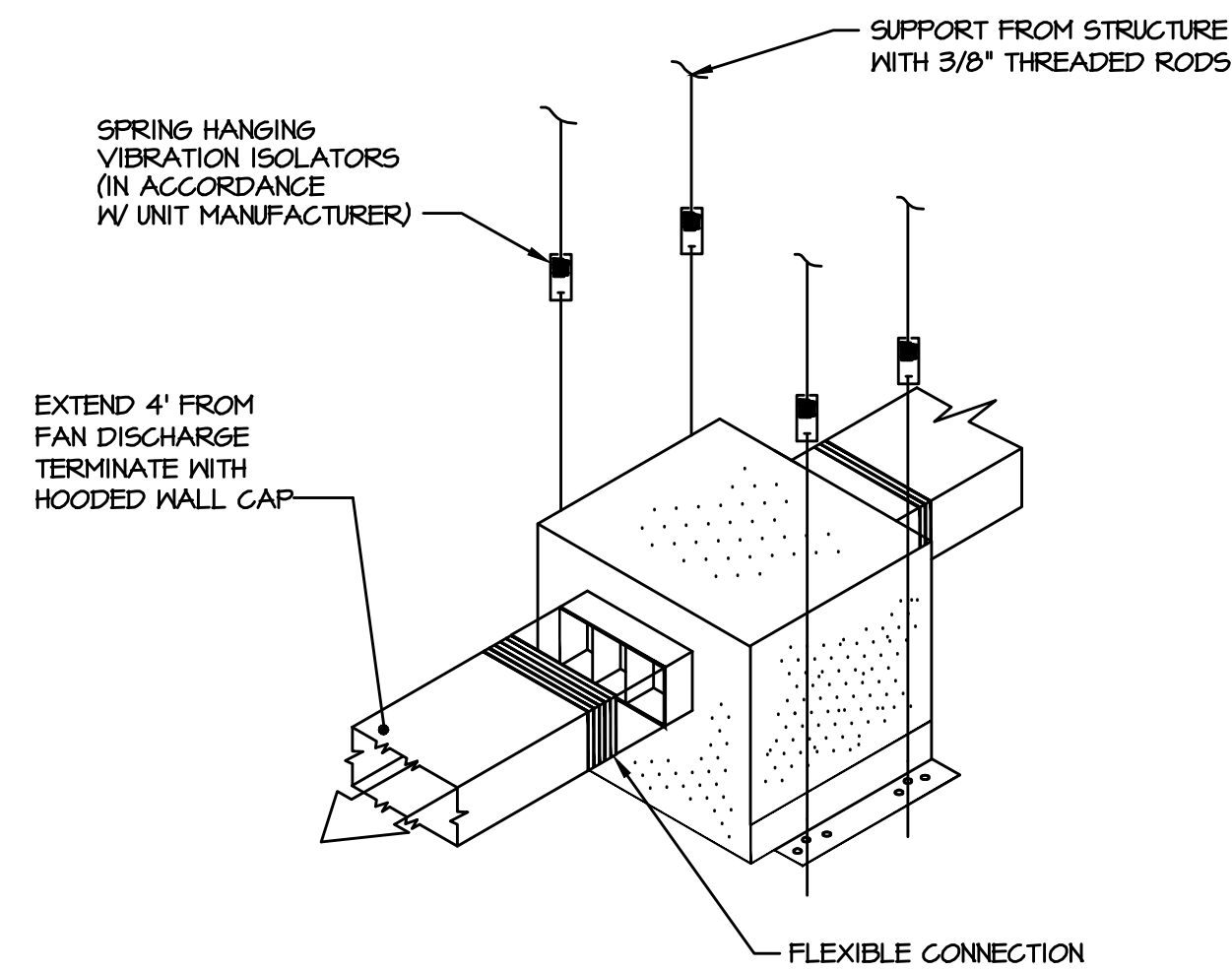
5 CONDENSATE DRAIN DETAIL
H-11 SCALE: NO SCALE



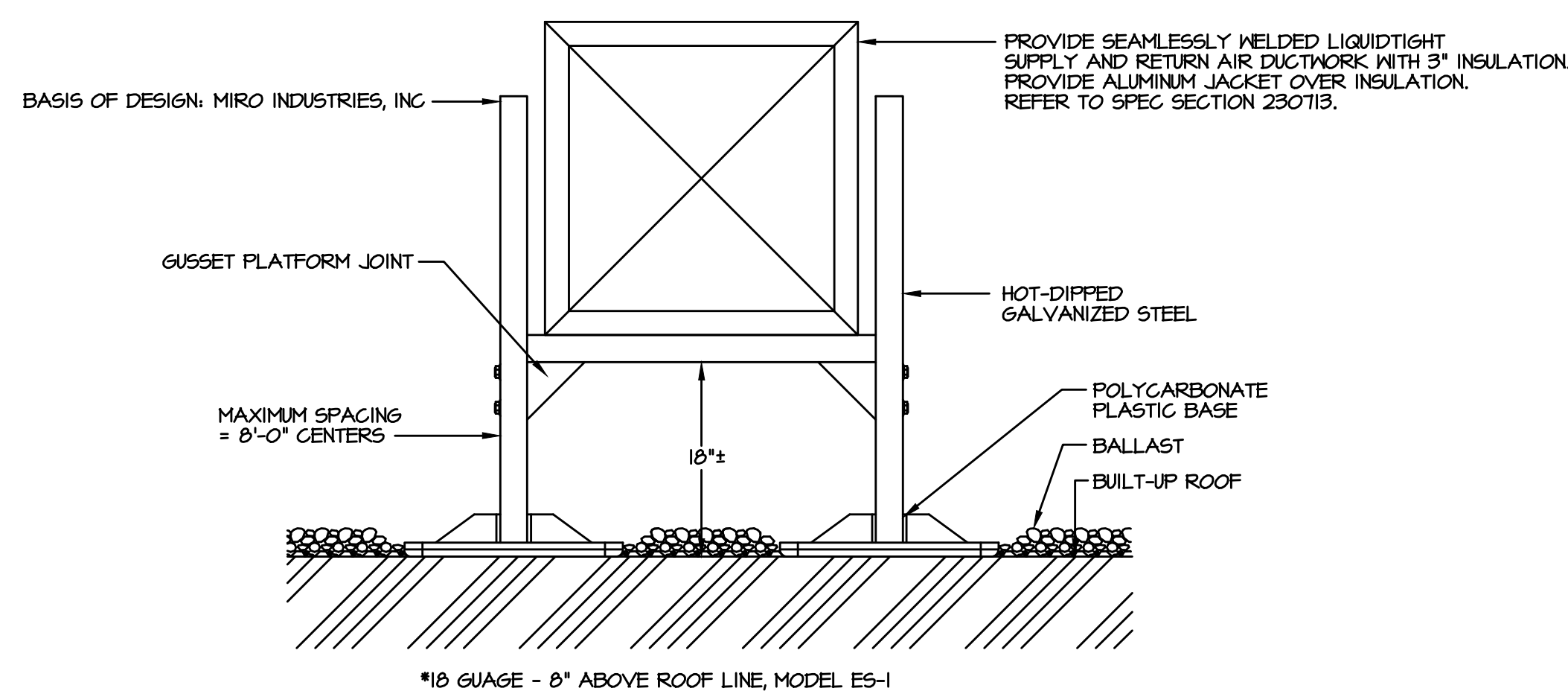
8 CEILING EXHAUST FAN DETAIL
H-11 SCALE: NO SCALE



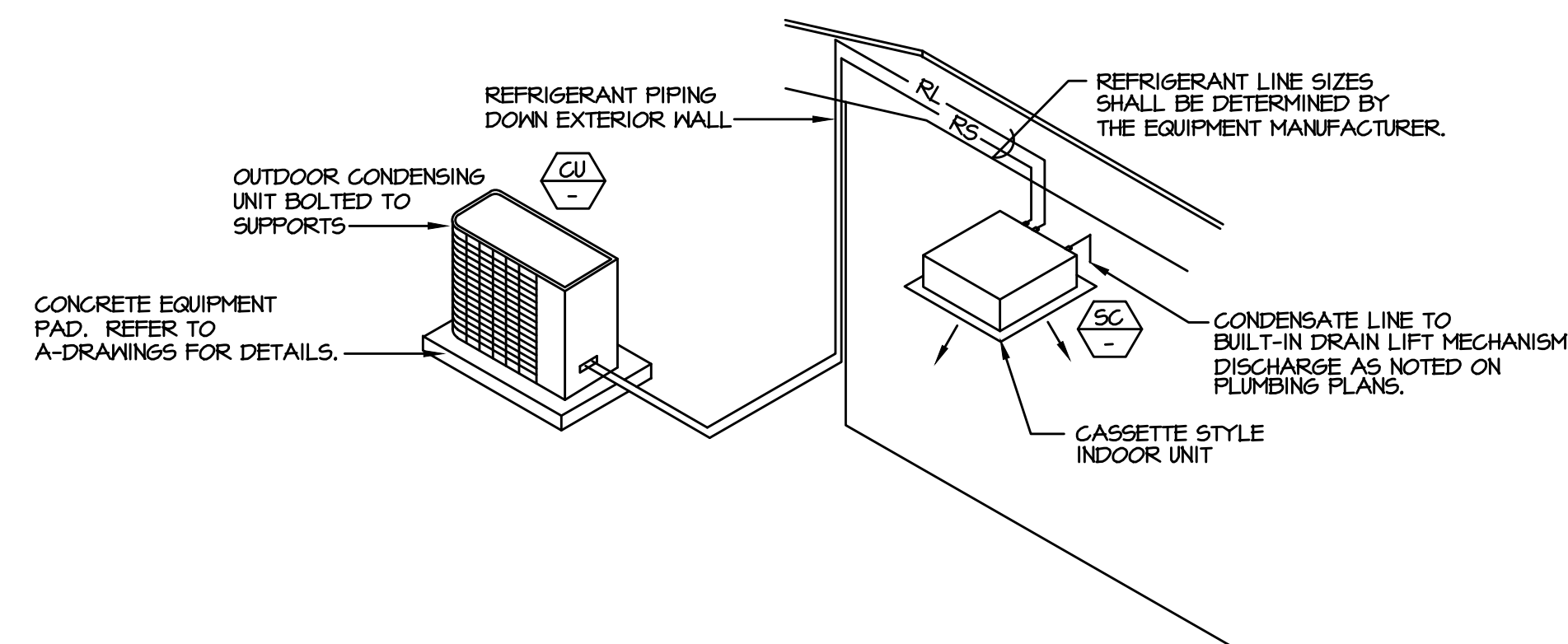
11 PIPE COVER DETAIL
H-11 SCALE: NO SCALE



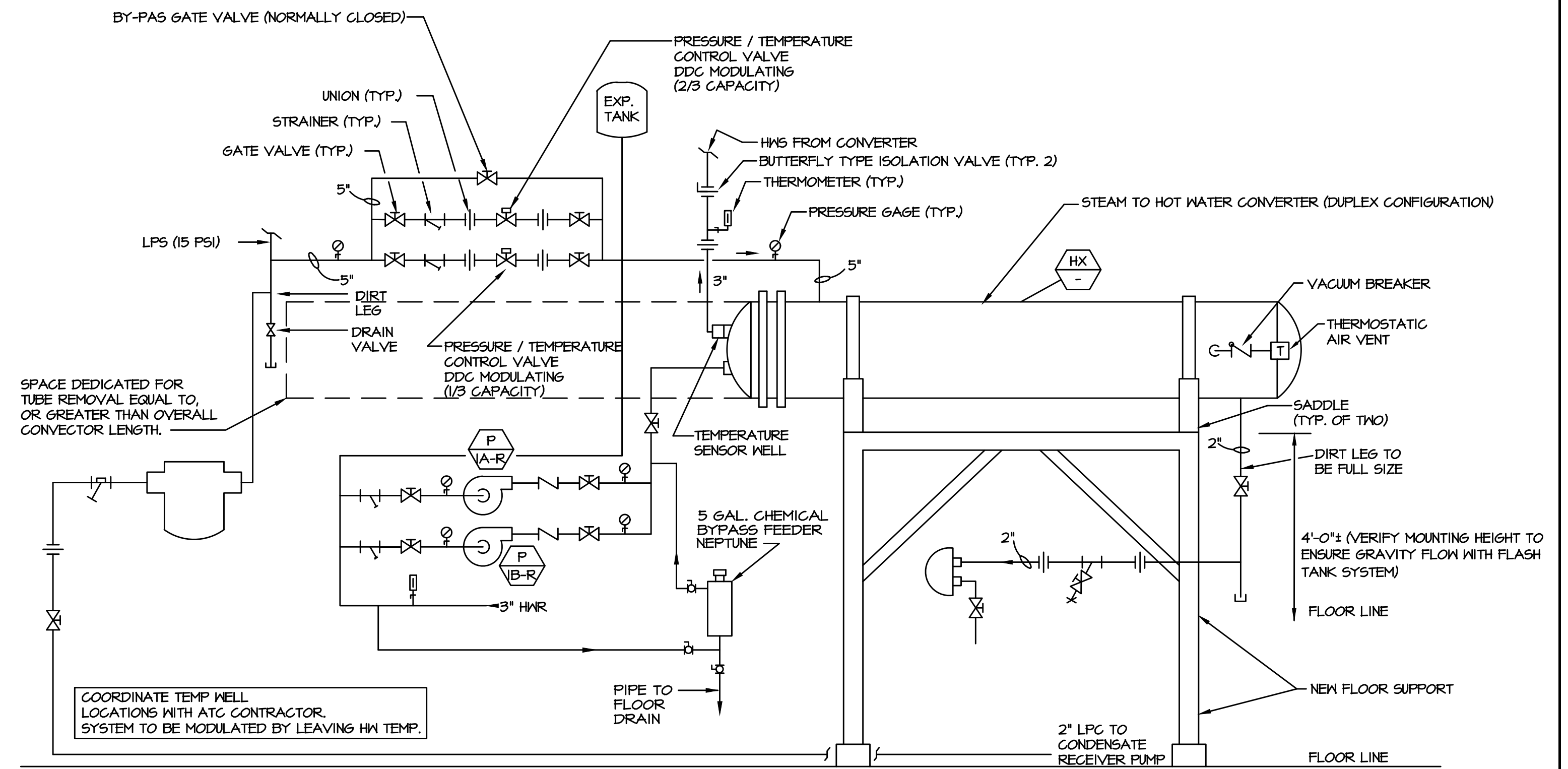
4 INLINE EXHAUST FAN DETAIL
H-11 SCALE: NO SCALE



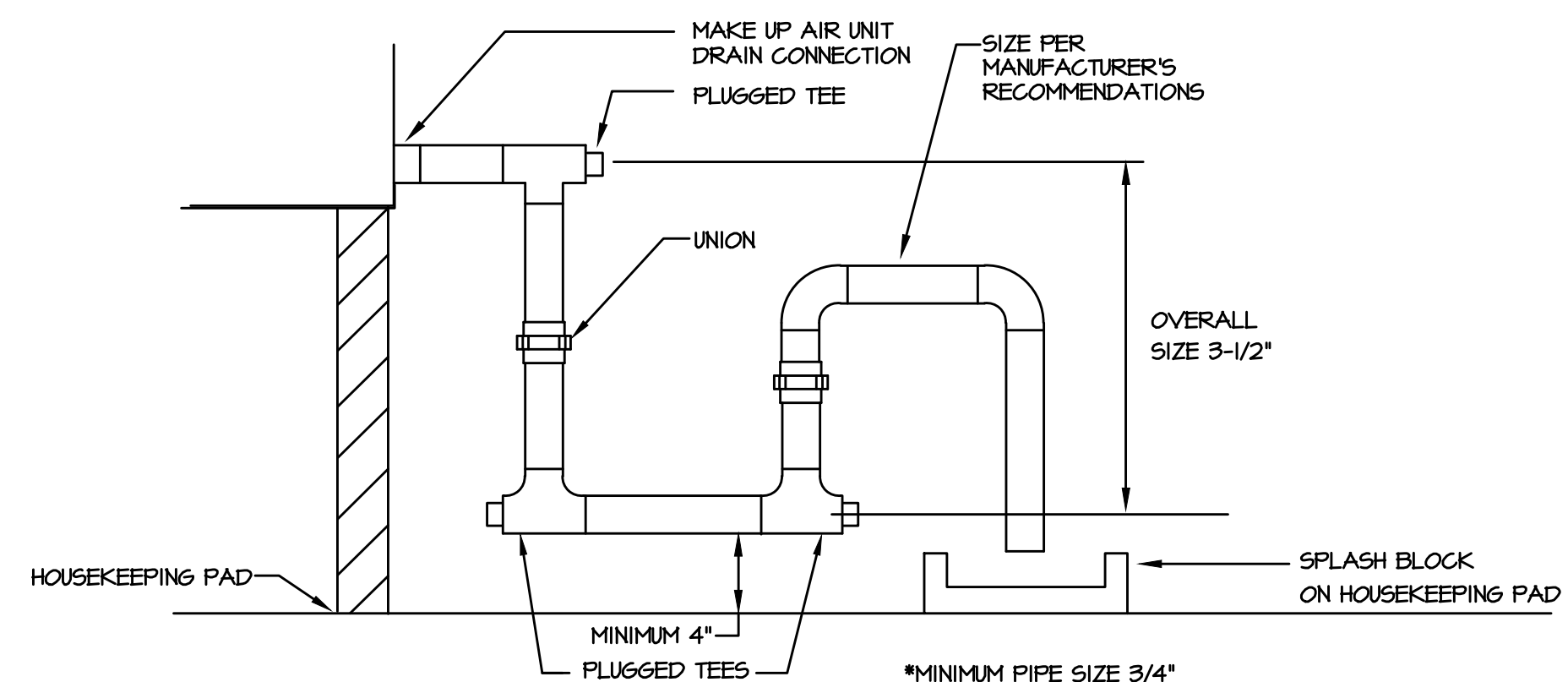
7 TYPICAL DUCT ON ROOF SUPPORT DETAIL
H-11 SCALE: NO SCALE



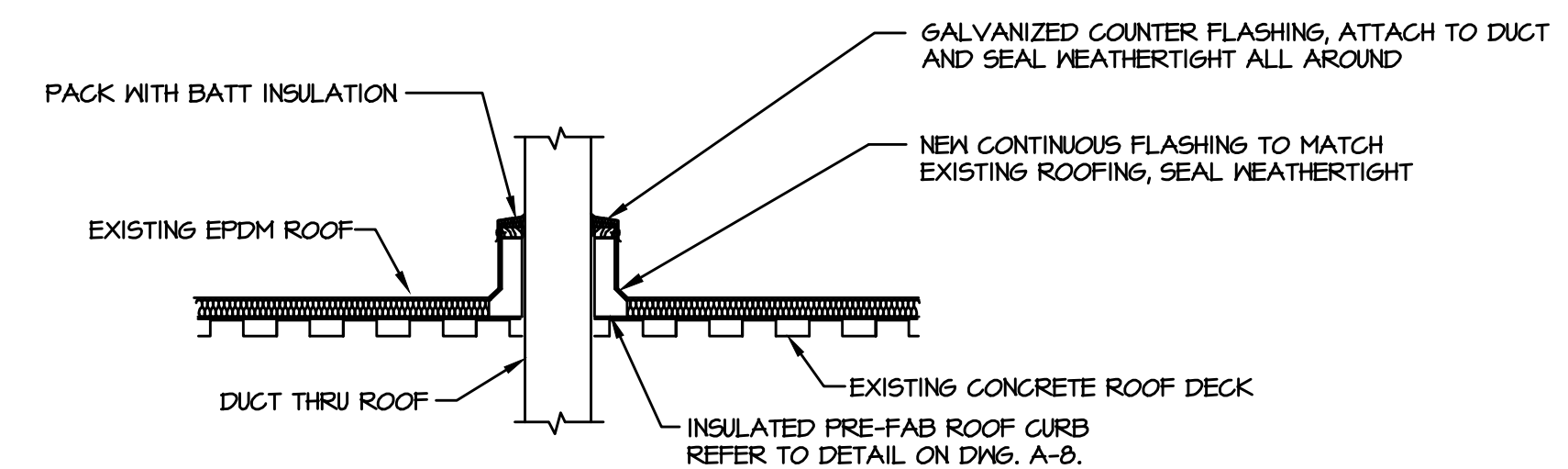
10 DUCTLESS (CASSETTE STYLE) SPLIT SYSTEM DETAIL
H-11 SCALE: NO SCALE



1 STEAM TO HOT WATER CONVERTER DETAIL (REED BUILDING - MR 0012)
H-11 SCALE: NO SCALE

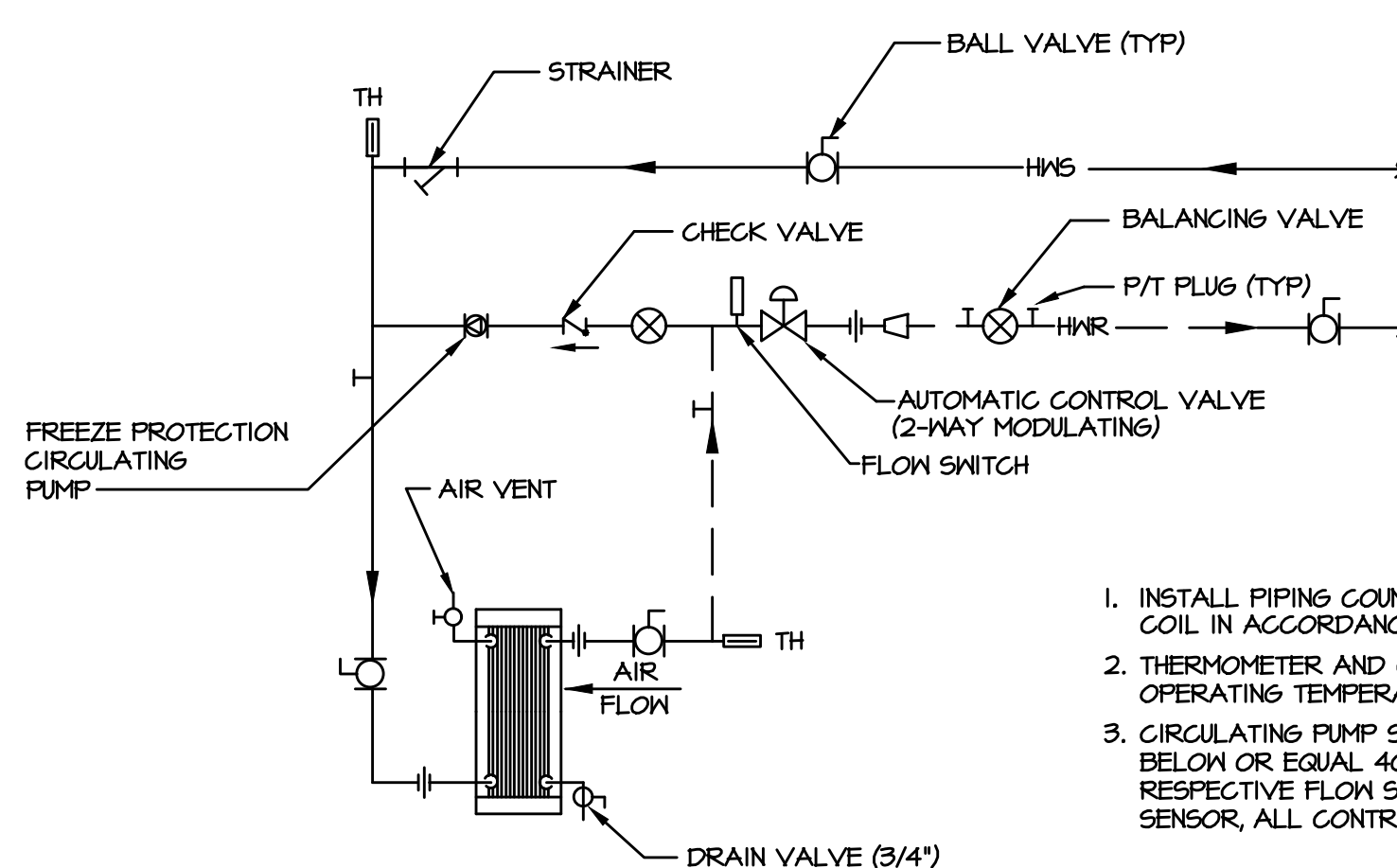


3 MAKEUP AIR UNIT CONDENSATE DRAIN DETAIL
H-11 SCALE: NO SCALE

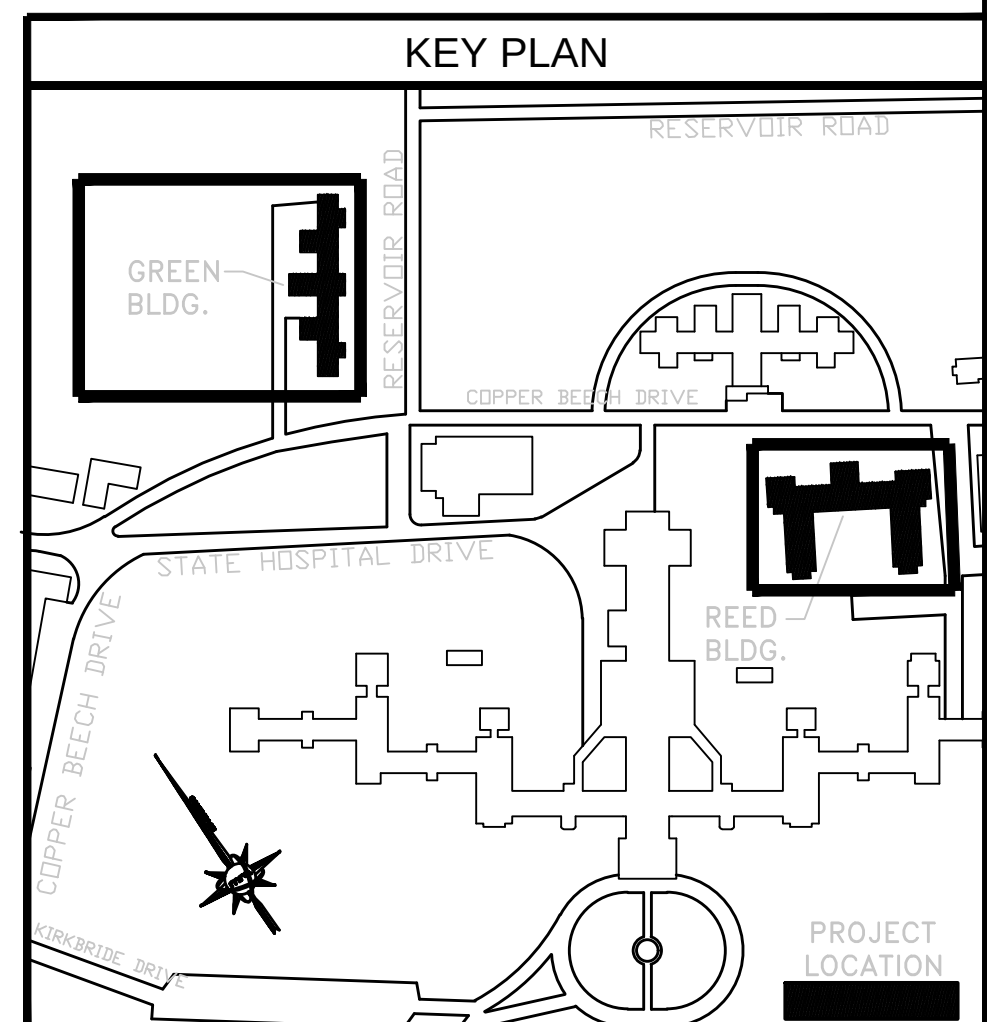


NOTE:
REMOVE EXISTING INSULATION AND ROOFING TO PERMIT INSTALLATION OF NEW ROOF CURB.
NEW CONTINUOUS FLASHING TO MATCH EXISTING ROOFING. RUN FLASHING MATERIAL UP CURB PERIMETER AND FASTEN TO TOP OF CURB NAILER. ADHERE TO EXISTING ROOF WITH SPlice ADHESIVE AND LAP SEALANT. SEAL WEATHERTIGHT ALL AROUND. PROVIDE NEW ROOF INSULATION AS REQUIRED. REPLACE BALLAST AS REQUIRED.

6 DUCTWORK THRU ROOF DETAIL
H-11 SCALE: NO SCALE



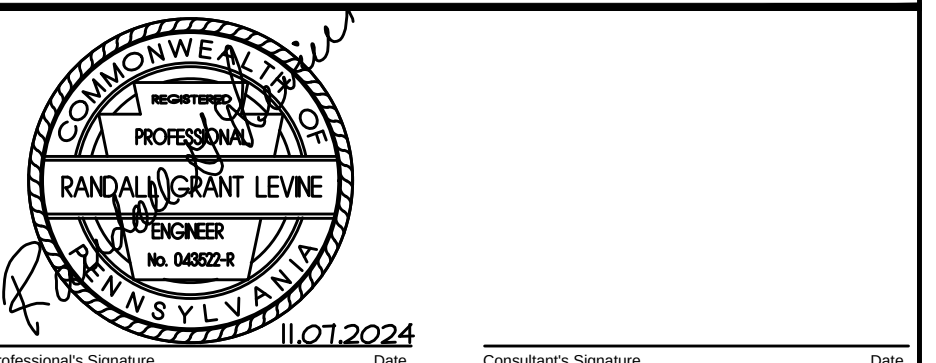
9 HEATING COIL PIPING W/ FREEZE PROTECTION DETAIL
H-11 SCALE: NO SCALE



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS



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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

DETAILS

DRAWN BY	DATE	CHECKED BY
TJ	11/07/2024	
SCALE		
RL	AS NOTED	

H-11

FOR CONSTRUCTION 11/07/2024

DIFFUSER, REGISTER, AND GRILLE SCHEDULE (GREEN)									
TAG	SERVICE	TYPE	PATTERN	CFM RANGE	NECK SIZE	MATERIAL	FINISH	MAX. NC	REMARKS/ACCESSORIES
A	SUPPLY/ RETURN	14x14 SECURITY	-	125/250	12"x12"	ALUMINUM	STANDARD	30	PROVIDE TAMPERPROOF SCREWS KEYS CCS-SEG-16P OR APPROVED EQUAL.
B	SUPPLY	16x16 SURFACE	4-WAY	200/350	12"x12"	ALUMINUM	STANDARD	30	PROVIDE THROW REDUCING VANES
C	RETURN/ EXHAUST	16x16 SURFACE	-	350/650	14"x14"	ALUMINUM	STANDARD	30	PROVIDE 1/2"x1/2"x1/2" GRID CORE
D	SUPPLY	15x15 SURFACE	4-WAY	125/150	9"x9"	ALUMINUM	STANDARD	30	PROVIDE THROW REDUCING VANES
E	SUPPLY	24x24 LAY-IN	4-WAY	330/335	12"ø	ALUMINUM	STANDARD	30	PROVIDE THROW REDUCING VANES PROVIDE SQUARE TO ROUND ADAPTER
F	RETURN/ EXHAUST	24x24 LAY-IN	-	1000/1500	22"x22"	ALUMINUM	STANDARD	30	PROVIDE 1/2"x1/2"x1/2" GRID CORE
G	RETURN/ EXHAUST	12x12 SURFACE	-	150/400	10"x10"	ALUMINUM	STANDARD	30	-
H	RETURN/ EXHAUST	16x16 SURFACE	-	750	16"x16"	ALUMINUM	STANDARD	30	-
I	SUPPLY	24x24 LAY-IN	4-WAY	200/350	12"x12"	ALUMINUM	STANDARD	30	PROVIDE THROW REDUCING VANES
J	SUPPLY	24x24 LAY-IN	4-WAY	50/120	6"x6"	ALUMINUM	STANDARD	30	PROVIDE THROW REDUCING VANES
K	SUPPLY	24x24 LAY-IN	4-WAY	300/600	15"x15"	ALUMINUM	STANDARD	30	PROVIDE THROW REDUCING VANES

NOTES:
1. ALL DIFFUSER AIRFLOW PATTERNS SHALL BE 4-WAY UNLESS NOTED OTHERWISE ON DUCTWORK DRAWINGS.
2. PAINT INSIDE OF GRILLES FLAT BLACK.
3. FIELD VERIFY EXACT SIZE FOR RETROFIT PRIOR TO ORDERING. RETROFIT SHALL BE THE OVERSIZED MODEL WITH RADIUS CORNER.

CONDENSATE RECEIVER PUMP SCHEDULE (GREEN)									
TAG	TYPE UNIT	GPM	DISCH PSIG	MOTOR			CAP. TANK (GAL)	NOTES	
				HP (EAC4)	PHASE VOLTS	QTY			
CRP-1-G	ELECTRIC	12	20	1/3	208V/3PH	1	15	1, 2, 3, 4, 5, 6	

NOTES:
1. BASIS OF DESIGN: STERLING SIMPLEX 4120-6.
2. PROVIDE COP MOTOR.
3. PROVIDE STEEL RECEIVER WITH NEMA-1 FLOAT SWITCH.
4. PROVIDE SIMPLEX NEMA-12 CONTROL PANEL WITH MOTOR CIRCUIT PROTECTOR (CIRCUIT BREAKER, STARTER, OVERLOAD RELAY).
5. PROVIDE HOA SELECTOR SWITCH, GREEN RUN LIGHT.
6. PROVIDE THRU COVER OVERLOAD RESET MOUNTED AND WIRED.

FREEZE PROTECTION PUMP SCHEDULE (GREEN)														
TAG	TYPE	GPM	HEAD (FT)	MAX. NFPH (FT)	BHP	RPM	MIN. PUMP EFF.	ELECTRICAL				BASIS OF DESIGN	NOTES	
								VFD (Y/N)	H.P.	VOLTS	EMERGENCY POWER (Y/N)			
FFP-1-1	INLINE	15	10	2.4	0.08	1800	50.5%	N	0.25	120	1	Y	BELL AND HOWSETT SERIES E-30TABB	1, 2, 3
FFP-1-2	INLINE	15	10	2.4	0.08	1800	50.5%	N	0.25	120	1	Y	BELL AND HOWSETT SERIES E-30TABB	1, 2, 3
FFP-1-3	INLINE	15	10	2.4	0.08	1800	50.5%	N	0.25	120	1	Y	BELL AND HOWSETT SERIES E-30TABB	1, 2, 3
FFP-1-4	INLINE	15	10	2.4	0.08	1800	50.5%	N	0.25	120	1	Y	BELL AND HOWSETT SERIES E-30TABB	1, 2, 3
FFP-2-1	INLINE	15	10	2.4	0.08	1800	50.5%	N	0.25	120	1	Y	BELL AND HOWSETT SERIES E-30TABB	1, 2, 3
FFP-2-2	INLINE	15	10	2.4	0.08	1800	50.5%	N	0.25	120	1	Y	BELL AND HOWSETT SERIES E-30TABB	1, 2, 3
FFP-2-3	INLINE	15	10	2.4	0.08	1800	50.5%	N	0.25	120	1	Y	BELL AND HOWSETT SERIES E-30TABB	1, 2, 3
FFP-2-4	INLINE	15	10	2.4	0.08	1800	50.5%	N	0.25	120	1	Y	BELL AND HOWSETT SERIES E-30TABB	1, 2, 3
FFP-3	INLINE	25	10	3.6	0.14	1800	51.5%	N	0.25	120	1	Y	BELL AND HOWSETT SERIES E-30TABB	1, 2, 3

NOTES:
1. PROVIDE BRONZE FITTED CONSTRUCTION.
2. PROVIDE STANDARD MECHANICAL SEAL ASSEMBLY.
3. ATC CONTRACTOR SHALL PROVIDE SIGNAL FOR SPEED CONTROL.

HEAT EXCHANGER SCHEDULE (GREEN)																	
TAG	SURFACE AREA	PASSES	P.D.	MBH	STEAM SIDE (SHELL)						WATER SIDE (TUBES)						NOTES
					STEAM PSI	CONDENSATE LBS/HR	INLET TEMP °F	OUTLET TEMP °F	STM INLET NOZZLE	CONDENSATE NOZZLE	FLOW GPM	VELOCITY	FOULING FACTOR	INLET TEMP °F	OUTLET TEMP °F	NOZZLE	
HX-1A-G	33.3 SQ. FT	3	3.3"	1216	15	1243	212	212	3"	1"	85	3.4 FPS	0.0005	120	150	3"	1, 2, 3, 4, 5
HX-1B-G	33.3 SQ. FT	3	3.3"	1216	15	1243	212	212	3"	1"	85	3.4 FPS	0.0005	120	150	3"	1, 2, 3, 4, 5

NOTES:
1. PROPERLY SUPPORT FROM FLOOR OR STRUCTURE ABOVE. FIELD VERIFY THE INSTALLED HEIGHT OF THE UNIT TO ENSURE PROPER CONDENSATE RETURN BY GRAVITY.
2. INLET STEAM PRESSURE REFLECTS MAXIMUM 40 PSIG PRESSURE DROP THROUGH STEAM ATC VALVE.
3. ATC CONTRACTOR SHALL PROVIDE CONTROL VALVE.
4. PROVIDE A TUBE WALL THICKNESS OF 0.035".
5. BASIS OF DESIGN: B46 SU-84-2.

MAKE-UP AIR UNIT SCHEDULE (GREEN)																														
TAG	DESIGN CONDITIONS		AIR PERFORMANCE				ELECTRICAL			HEATING MODE							COOLING MODE							WEIGHT (LBS)	NOTES					
	(SUMMER) E.A.T. DB/WB	(WINTER) E.A.T. DB	CFM	E.S.P.	MOTOR (HP)	RPM	VOLTAGE/ PHASE	MCA	MOCP	TYPE	EXT	INT	EAT	LAT	TOTAL (MBH)	HPD	GPM	TYPE	COMPRESSOR (QTY)	TOTAL (MBH)	SENS. (MBH)	L.A.T. DB	REHEAT MBH			LAT	REFRIG.			
MAU-1	42°F/75°F	-5°F	4,000	2.0	3	1165	460/3	64.1	40	WATER	150°F	120°F	0°F	85°F	3TB	1.3	145	23.0	PACKAGED DX	2	DIGITAL SCROLL	330.1	116.5	52°F	52°F	182	44°F	R410A	3,270	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

NOTES:
1. PROVIDE DOUBLE WALL INSULATED METAL LINER.
2. PROVIDE 2" PLEATED MERV 9 SUPPLY FILTERS AND DIRTY FILTER SENSOR.
3. PROVIDE DOWNTURNED WEATHERHOOD.
4. PROVIDE MOTORIZED, LOW LEAKAGE, MODULATING OUTDOOR AIR AND RECIRC DAMPERS.
5. PROVIDE NEOPRENE BLOWER ISOLATION.
6. PROVIDE SPARE FILTERS.
7. PROVIDE PERMATECTOR CONCRETE GRAY PAINTED EXTERIOR.
8. PROVIDE FACTORY WIRED NON-REVERSIBLE DISCONNECT SWITCH.
9. PROVIDE CONSTANT VOLUME SUPPLY FAN COIL.
10. PROVIDE MICROPROCESSOR REMOTE INTERFACE WITH ISO CORD.
11. PROVIDE 120 VOLT NEMA 3R OUTLET (FACTORY MOUNTED AND WIRED).
12. PROVIDE PHASE AND BROWN OUT PROTECTION.
13. PROVIDE 48" HIGH CURB FOR HORIZONTAL DUCTWORK DISTRIBUTION.
14. UNIT SHALL BE BAGNET COMPATIBLE.
15. BASIS OF DESIGN: GREENNECK RV-45-2B-3-61.
16. PROVIDE AND ENABLE REHEAT PLUS FUNCTIONALITY.

CEILING EXHAUST FAN SCHEDULE (GREEN)									
TAG	TYPE	DRIVE	CFM	S.P. (" Hg.)	RPM	MOTOR WATTAGE	VOLTAGE/ PHASE	SONES	NOTES
CEF-1	CEILING	DIRECT	100	0.5	1050	128	120/1	4.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CEF-2	CEILING	DIRECT	100	0.5	1050	128	120/1	4.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CEF-3	CEILING	DIRECT	100	0.5	1050	128	120/1	4.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CEF-4	CEILING	DIRECT	100	0.5	1050	128	120/1	4.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CEF-5	CEILING	DIRECT	200	0.5	980	172	120/1	6.0	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CEF-6	CEILING	DIRECT	200	0.5	980	172	120/1	6.0	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CEF-7	CEILING	DIRECT	200	0.5	980	172	120/1	6.0	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CEF-8	CEILING	DIRECT	100	0.5	1050	128	120/1	4.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CEF-9	CEILING	DIRECT	100	0.5	1050	128	120/1	4.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CEF-10	CEILING	DIRECT	100	0.5	1050	128	120/1	4.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
CEF-11	CEILING	DIRECT	100	0.5	1050	128	120/1	4.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

NOTES:
1. PROVIDE ROUND OUTLET DUCT COLLAR WITH INTEGRAL BACKDRAFT DAMPER.
2. PROVIDE A SINGLE POINT POWER CONNECTION.
3. PROVIDE POLYPROPYLENE WHEEL MATERIAL.
4. PROVIDE ISO5 RECTANGULAR WALL CAP WITH BUILT-IN BUG/INSECT SCREEN.
5. PROVIDE FACTORY DISCONNECT SWITCH.
6. PROVIDE LOW PROFILE HOUSING.
7. PROVIDE ISOLATION KIT.
8. SUPPORT FROM BUILDING STRUCTURE.
9. PROVIDE ALUMINUM GRILLE WITH WHITE ENAMEL FINISH.
10. BASIS OF DESIGN: GREENNECK SP-B.

LOUVER SCHEDULE (GREEN)									
TAG	MANUFACTURER	MODEL	NOMINAL SIZE	VOLUME (CFM)	VELOCITY (FPM)	SERVICE	FINISH	NOTES	
L-A-6	GREENNECK	ESD-435	24"x18"	800	100	VENTILATION EXHAUST	COLOR BY ARCHITECT	1, 2, 3, 4	
L-B-6	GREENNECK	ESD-435	38"x64"	2850	500	VENTILATION INTAKE	COLOR BY ARCHITECT	1, 2, 3, 4, 5	
L-C-6	GREENNECK	ESD-435	38"x14"	-	500	VENTILATION INTAKE	COLOR BY ARCHITECT	1, 2, 3, 4, 6, 7	
L-1A-6	GREENNECK	ESD-435	18"x12"	200	500	VENTILATION INTAKE	COLOR BY ARCHITECT	1, 2, 3, 4	
L-1B-6	GREENNECK	ESD-435	18"x12"	200	100	VENTILATION EXHAUST	COLOR BY ARCHITECT	1, 2, 3, 4	
L-2A-6	GREENNECK	ESD-435	18"x12"	200	500	VENTILATION INTAKE	COLOR BY ARCHITECT	1, 2, 3, 4	
L-2B-6	GREENNECK	ESD-435	18"x12"	200	100	VENTILATION EXHAUST	COLOR BY ARCHITECT	1, 2, 3, 4	
L-3A-6	GREENNECK	ESD-435	24"x18"	800	100	VENTILATION EXHAUST	COLOR BY ARCHITECT	1, 2, 3, 4	
L-3B-6	GREENNECK	ESD-435	24"x18"	800	100	VENTILATION EXHAUST	COLOR BY ARCHITECT	1, 2, 3, 4	
L-4A-6	GREENNECK	ESD-435	38"x64"	2250	100	VENTILATION INTAKE	COLOR BY ARCHITECT	1, 2, 3, 4, 5	
L-4B-6	GREENNECK	ESD-435	38"x64"	2675	100	VENTILATION INTAKE	COLOR BY ARCHITECT	1, 2, 3, 4, 5	
L-4C-6	GREENNECK	ESD-435	38"x64"	2350	100	VENTILATION INTAKE	COLOR BY ARCHITECT	1, 2, 3, 4, 5	
L-4D-6	GREENNECK	ESD-435	38"x64"	2350	100	VENTILATION INTAKE	COLOR BY ARCHITECT	1, 2, 3, 4, 5	

NOTES:
1. COORDINATE EXTERIOR WALL LOUVER OPENINGS WITH J. CONTRACTOR.
2. FIELD VERIFY THAT ALL LOUVER DIMENSIONS WILL FIT PRIOR TO ORDERING OR INSTALLING.
3. PROVIDE INSULATED SHEET METAL PLENUM BOX ON BACK OF LOUVER.
4. PROVIDE ALUMINUM INSECT SCREEN.
5. WINDOW SHALL BE REMOVED. LOUVER SHALL BE SIZED FOR WINDOW OPENING. FIELD VERIFY EXACT DIMENSIONS.
6. UPPER WINDOW PANEL SHALL BE REMOVED. LOUVER SHALL BE SIZED FOR PANEL OPENING. FIELD VERIFY EXACT DIMENSIONS.
7. PROVIDE INSULATED MANUAL BACKDRAFT DAMPER.

FOR CONSTRUCTION 11/07/2024

AIR HANDLING UNIT (DX & HW) SCHEDULE (GREEN)																									
TAG NO.	BASIS OF DESIGN		SUPPLY FAN				DX COOLING COIL						HW HEATING COIL						ELECTRICAL			WEIGHT LBS	NOTES		
	MANUFACTURER	MODEL	TOTAL CFM	MIN. OA CFM	HP	ESP IN. WC	RPM	MBH TOTAL/SENS	EAT DB/MB	LAT DB/MB	REFRIGERANT	PIPE SIZE CONN.		MBH	EAT	LAT	EXT	LMT	GPM	PIPE SIZE CONN.	VOLTS/ PH/Hz			MCA	MOCP
												SUC.	LIQ.												
AHU-1-1	JOHNSON CONTROLS	NL040	3400	340	2.00	1.2	1147	96.8/14.5	71.0/64.0	51.0/54.0	R410A	1 1/8"	5/8"	172	60.0	107	150	120	7.5	1-1/4"	208/3/60	7.3	15.0	526	1, 2, 3, 4, 5, 6, 7, 8
AHU-1-2	JOHNSON CONTROLS	NL040	2400	250	2.00	1.2	1031	84.6/61.2	71.0/64.0	52.0/54.0	R410A	1 1/8"	5/8"	141	60.0	115	150	120	7.5	1-1/4"	208/3/60	7.3	15.0	526	1, 2, 3, 4, 5, 6, 7, 8
AHU-1-3	JOHNSON CONTROLS	NL040	3450	340	2.00	1.2	1147	96.8/14.5	71.0/64.0	51.0/54.0	R410A	1 1/8"	5/8"	172	60.0	107	150	120	7.5	1-1/4"	208/3/60	7.3	15.0	526	1, 2, 3, 4, 5, 6, 7, 8
AHU-1-4	JOHNSON CONTROLS	NL040	2675	270	2.00	1.2	1060	88.2/65.2	71.0/64.0	54.0/53.0	R410A	1 1/8"	5/8"	156	60.0	115	150	120	7.5	1-1/4"	208/3/60	7.3	15.0	526	1, 2, 3, 4, 5, 6, 7, 8
AHU-2-1	JOHNSON CONTROLS	NL040	3650	365	2.00	1.2	1154	97.3/75.0	71.0/64.0	55.0/53.0	R410A	1 1/8"	5/8"	172	60.0	106	150	120	7.5	1-1/4"	208/3/60	7.3	15.0	526	1, 2, 3, 4, 5, 6, 7, 8
AHU-2-2	JOHNSON CONTROLS	NL040	2350	250	2.00	1.2	1031	84.6/61.2	71.0/64.0	52.0/51.0	R410A	1 1/8"	5/8"	141	60.0	115	150	120	7.5	1-1/4"	208/3/60	7.3	15.0	526	1, 2, 3, 4, 5, 6, 7, 8
AHU-2-3	JOHNSON CONTROLS	NL040	3650	365	2.00	1.2	1154	97.3/75.0	71.0/64.0	55.0/53.0	R410A	1 1/8"	5/8"	172	60.0	106	150	120	7.5	1-1/4"	208/3/60	7.3	15.0	526	1, 2, 3, 4, 5, 6, 7, 8
AHU-2-4	JOHNSON CONTROLS	NL040	2350	250	2.00	1.2	1031	84.6/61.2	71.0/64.0	52.0/51.0	R410A	1 1/8"	5/8"	141	60.0	115	150	120	7.5	1-1/4"	208/3/60	7.3	15.0	526	1, 2, 3, 4, 5, 6, 7, 8

NOTES:
1. PROVIDE NEOPRENE VIBRATION ISOLATION PAD UNDER FRAME PERIMETER.
2. PROVIDE MERV 13 FILTER.
3. PROVIDE INTELLISPEED VFD WITHOUT BYPASS.
4. PROVIDE COMPOSITE DRAIN PAN.
5. PROVIDE 2-ROW DEEP HOT WATER COIL.
6. AHU OA DAMPERS SHALL FAIL NORMALLY CLOSED UPON LOSS OF POWER OR DURING EMERGENCY CONDITIONS.<

CONDENSATE RECEIVER PUMP SCHEDULE (REED)									
TAG	TYPE UNIT	GPM	DISCH PSIG	MOTOR			CAP TANK (GAL)	NOTES	
				HP (EACH)	PHASE VOLTS	QTY			
CRP-1-R	ELECTRIC	12	20	1/3	208V/3PH	1	15	1, 2, 3, 4, 5, 6	

NOTES:
1. BASIS OF DESIGN: STERLING SIMPLEX 4120-6.
2. PROVIDE ODP MOTOR.
3. PROVIDE STEEL RECEIVER WITH NEMA-1 FLOAT SWITCH.
4. PROVIDE SIMPLEX NEMA-12 CONTROL PANEL WITH MOTOR CIRCUIT PROTECTOR (CIRCUIT BREAKER, STARTER, OVERLOAD RELAY).
5. PROVIDE HOA SELECTOR SWITCH, GREEN RUN LIGHT.
6. PROVIDE THRU COVER OVERLOAD RESET MOUNTED AND WIRED.

HEAT EXCHANGER SCHEDULE (REED)																	
TAG	SURFACE AREA	PASSES	P.D.	MBH	STEAM SIDE (SHELL)						WATER SIDE (TUBES)					NOTES	
					STEAM PSI	CONDENSATE LBS/HR	INLET TEMP °F	OUTLET TEMP °F	STM INLET NOZZLE	CONDENSATE NOZZLE	FLOW GPM	VELOCITY	FOULING FACTOR	INLET TEMP °F	OUTLET TEMP °F		NOZZLE
HX-1A-R	83 SQ. FT	2	3.3'	-	15	-	212	212	6"	1-1/4"	130	3.4 FPS	0.0005	150	180	4"	1, 2, 3, 4, 5
HX-1B-R	83 SQ. FT	2	3.3'	-	15	-	212	212	6"	1-1/4"	130	3.4 FPS	0.0005	150	180	4"	1, 2, 3, 4, 5
HX-2A-R	61 SQ. FT	2	3.3'	-	15	-	212	212	4"	1-1/4"	74	3.4 FPS	0.0005	150	180	4"	1, 2, 3, 4, 6
HX-2B-R	61 SQ. FT	2	3.3'	-	15	-	212	212	4"	1-1/4"	74	3.4 FPS	0.0005	150	180	4"	1, 2, 3, 4, 6

NOTES:
1. PROPERLY SUPPORT FROM FLOOR OR STRUCTURE ABOVE. FIELD VERIFY THE INSTALLED HEIGHT OF THE UNIT TO ENSURE PROPER CONDENSATE RETURN BY GRAVITY.
2. INLET STEAM PRESSURE REFLECTS MAXIMUM 40 PSIG PRESSURE DROP THROUGH STEAM ATC VALVE.
3. ATC CONTRACTOR SHALL PROVIDE CONTROL VALVE.
4. PROVIDE A TUBE WALL THICKNESS OF 0.035".
5. BASIS OF DESIGN: B46 SU-124-2.
6. BASIS OF DESIGN: B46 SU-123-2.

EXHAUST FAN SCHEDULE (REED)											
TAG	MAKE	MODEL	TYPE	DRIVE	CFM	S.P. (\" W.G.)	FAN RPM	MOTOR HP	VOLTAGE/ PHASE	SONES	NOTES
EF-1-R	GREENHECK	BAER-24	SIDEWALL	BELT	2000	0.125	630	1/4	115/1	23	1, 2, 3, 4, 5, 6, 7, 8
EF-2-R	GREENHECK	SEI-12-436-VG	SIDEWALL	DIRECT	750	0.125	1154	1/4	115/1	4.4	1, 3, 4, 5, 8, 9

NOTES:
1. PROVIDE A SINGLE POINT POWER CONNECTION.
2. PROVIDE SOLID STATE SPEED CONTROLLER.
3. PROVIDE GRAVITY BACKDRAFT DAMPER.
4. PROVIDE FACTORY DISCONNECT SWITCH.
5. PROVIDE FACTORY INSTALLED ALUMINUM DAMPER GUARD.
6. PROVIDE AUTOMATIC BELT TENSIONER.
7. PROVIDE LONG WALL HOUSING WITH FLUSH EXTERIOR WITH OSHA GUARD FACTORY INSTALLED.
8. PROVIDE JUNCTION BOX MOUNTED AND WIRED.
9. PROVIDE VARI-GREEN EC MOTOR AND CONTROL DIAL FOR BALANCING.

PUMP SCHEDULE (REED)														
TAG	SERVICE	TYPE	GPM	HEAD (FT)	MAX. NPSH (FT)	RPM	ELECTRICAL					NOTES		
							MIN. PUMP EFF.	VFD (Y/N)	H.P.	VOLTS	PH.		EMERGENCY POWER (Y/N)	
P-1A-R	HOT WATER LOOP	INLINE	130	34	8.33	1750	64.5%	N	15	208	3	N	1, 2, 3, 4, 5	
P-1B-R	HOT WATER LOOP	INLINE	130	34	8.33	1750	64.5%	N	15	208	3	N	1, 2, 3, 4, 5	
P-2A-R	HOT WATER LOOP	BASE MOUNTED	74	34	8.33	1750	64.5%	N	15	208	3	N	1, 2, 3, 4, 6, 7	
P-2B-R	HOT WATER LOOP	BASE MOUNTED	74	34	8.33	1750	64.5%	N	15	208	3	N	1, 2, 3, 4, 6, 7	

NOTES:
1. PROVIDE DISCONNECT.
2. PROVIDE INTERNALLY SELF-FLUSHING MECHANICAL SEAL.
3. PROVIDE PREMIUM EFFICIENCY INVERTER-DUTY, NON-OVERLOADING MOTOR.
4. PROVIDE BOLTED FLANGE CONNECTIONS.
5. BASIS OF DESIGN: B46 E-60 2-201.
6. BASIS OF DESIGN: BURKS GNE3-2F.
7. PROVIDE A FOOT-MOUNTED 150 VOLUTE.

EXPANSION/AIR SEPARATOR TANK SCHEDULE (REED)																
TAG	SYSTEM	APPROX. SYSTEM VOLUME (GAL.)	SYSTEM TEMPERATURE RANGE (°F)		INITIAL PRESSURE IN TANK (PSIG)	PRV FILL PRESSURE AT TANK (PSIG)	MAX. OPER. PRESS.		TANK SIZE (GAL.)	AIR SEPARATOR			PIPE TO TANK	DRAIN SIZE	NOTES	
			MIN.	MAX.			RELIEF VALVE (PSIG)	AT TANK (PSIG)		PIPE SIZE	GPM	MAX. PD				
ET-1-R/AS-1-R	HOT WATER	-	50	180	35	35	50	50	132	3"	-	0.4'	1"	3/4"	1, 2	

NOTES:
1. INITIAL PRESSURE IS PRESSURE REQUIRED TO REACH HIGHEST ELEVATION PLUS 4", FOR VENTING.
2. MAXIMUM OPERATING PRESSURE IS EQUAL TO RELIEF VALVE SETTING.

KEY PLAN

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

Professional's Signature: _____ Date: 11/07/2024 Consultant's Signature: _____ Date: _____

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

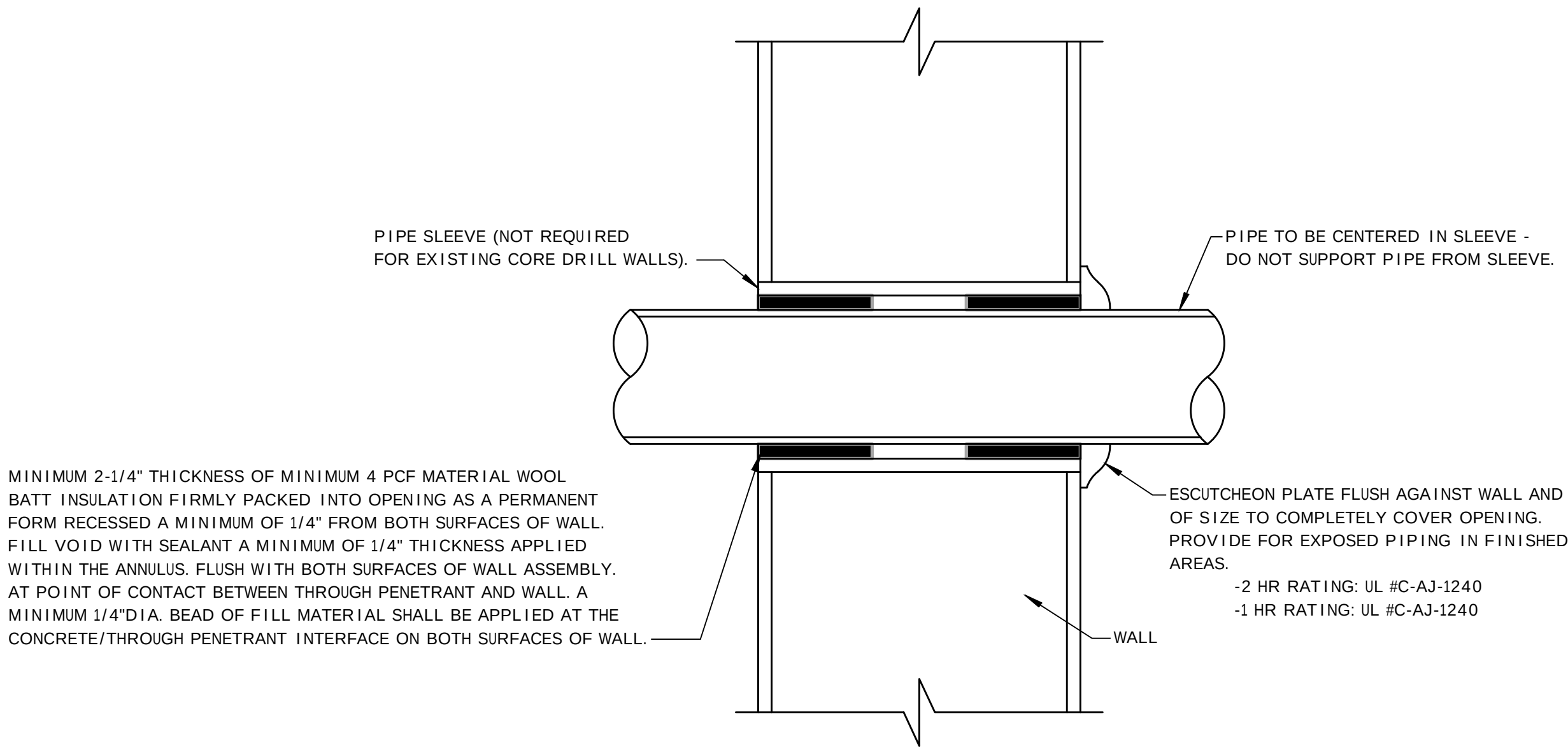
SCHEDULES

DRAWN BY: TJ	DATE: 11/07/2024	CONTRACT NO.:
CHECKED BY: RL	SCALE: AS NOTED	

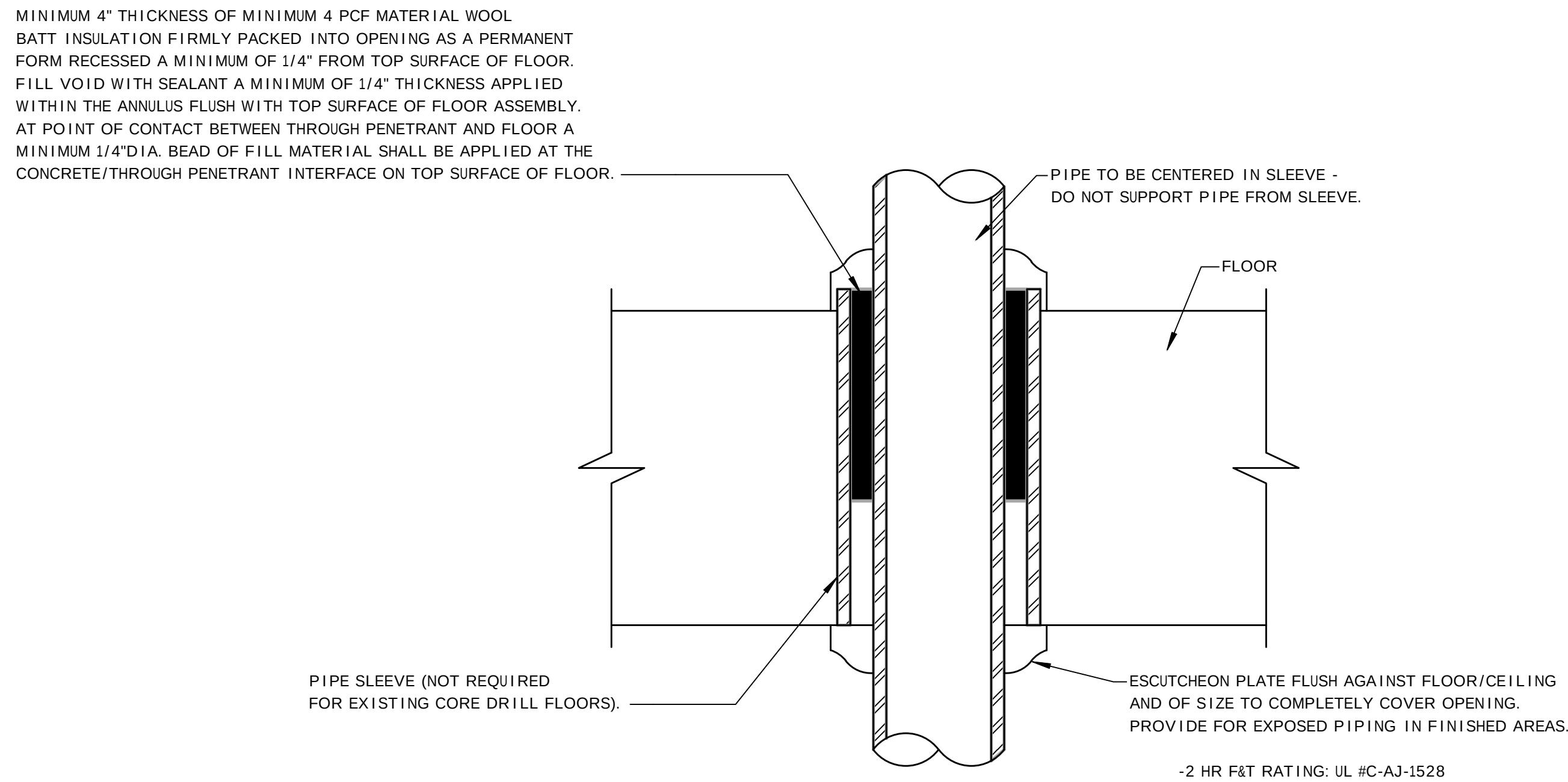
H-13

FOR CONSTRUCTION 11/07/2024

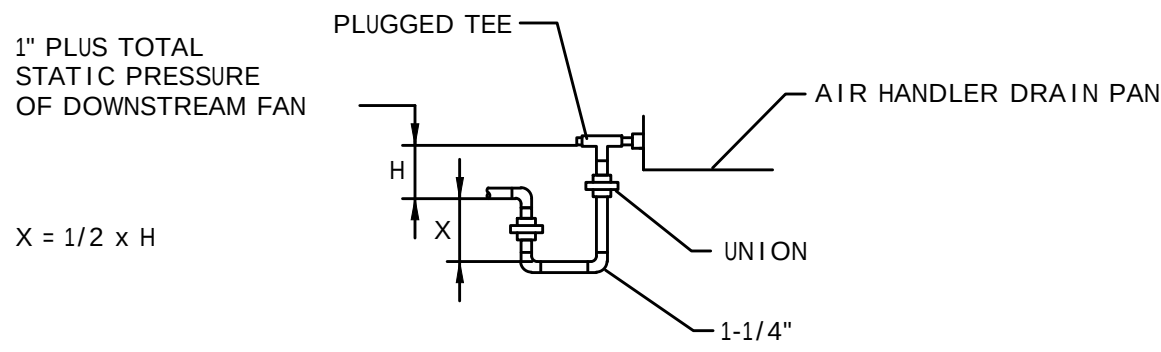
* SEE DWG. H-12 FOR GREEN BUILDING SCHEDULES



1
P-1
SCALE: NONE
INTERIOR WALL SLEEVE DETAIL

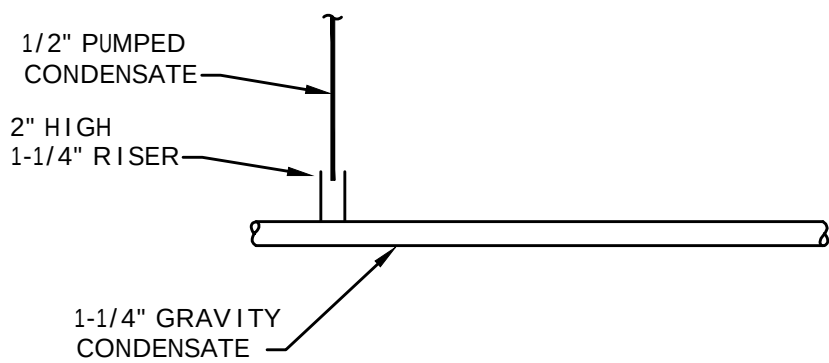


2
P-1
SCALE: NONE
FLOOR SLEEVE DETAIL



NOTE: PLUMBING CONTRACTOR SHALL PROVIDE TRAP AS INDICATED ABOVE FOR ALL DRAW THRU EQUIPMENT. PLUMBING CONTRACTOR SHALL COORDINATE CONNECTION SIZES AND LOCATIONS WITH HVAC CONTRACTOR.

3
P-1
SCALE: NONE
DRAW THRU A/C CONDENSATE PIPING DETAIL



4
P-1
SCALE: NONE
PUMPED CONDENSATE TO GRAVITY CONDENSATE CONNECTION DETAIL

GENERAL

	POINT OF CONNECTION TO EXISTING
	POINT OF DISCONNECTION
	FIXTURE/EQUIPMENT IDENTIFICATION TAG
	PLAN/DETAIL #/DRAWING NUMBER

PIPE SYMBOLS

	PIPE ELBOW UP
	PIPE TEE UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	SOLENOID VALVE
	SHOCK ARRESTOR
	FIXTURE TRAP
	FLOOR DRAIN
	BALL VALVE
	GATE VALVE
	BALANCE VALVE
	GAS SHUTOFF VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	MIXING VALVE
	UNION
	FLANGE
	SANITARY WASTE
	SANITARY VENT
	DOM. COLD WATER
	DOM. HOT WATER
	DOM. HOT WATER RECIRC.
	MEDICAL VACUUM
	MEDICAL OXYGEN
	MEDICAL AIR
	FLEXIBLE CONNECTION
	PIPE CAP
	Y-TYPE STRAINER
	PRESSURE REDUCING VALVE
	PRESSURE GAUGE W/PETCOCK
	THERMOMETER
	PRESSURE RELIEF VALVE
	ANTI-SYPHON VALVE
	HOSE END DRAIN VALVE
	CLEAN OUT
	FLOOR CLEAN OUT

NOTE: THIS IS A GENERAL PLUMBING LEGEND. ALL SYMBOLS MAY NOT APPEAR ON THE PLANS. SEE PLANS FOR ACTUAL SYMBOLS USED.

LEAD PAINT: WORK SHALL BE CONDUCTED UNDER THE ASSUMPTION THAT ALL SURFACE COATINGS CONTAIN LEAD. ALL DISTURBANCE ACTIVITIES SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING OSHA 29 CFR 1926.62. WORK ACTIVITIES SHALL ENSURE AREAS BEYOND WORK AREA ARE NOT CONTAMINATED. REFER TO SECTION 01040 FOR ANY ADDITIONAL REQUIREMENTS.

ABBREVIATIONS

A	AND
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CD	A.C. CONDENSATE DRAIN
CL6	CEILING
CO	CLEANOUT
CONT	CONTINUATION
CM	COLD WATER
DN	DOWN
DOM	DOMESTIC
DWG	DRAWINGS
EC	ELECTRICAL CONTRACTOR
EX	EXISTING (ALSO EXIST)
F	DEGREES FAHRENHEIT
FD	FLOOR DRAIN
FLCO	FLOOR CLEANOUT
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
H & CM	HOT AND COLD WATER
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HW	HOT WATER
HW	HOT WATER REGICULATING
HZ	HERTZ
IN WG	INCHES WATER GAUGE
KM	KILOMATT
MBH	THOUSAND BTU
ORD	OVERFLOW ROOF DRAIN
ORWC	OVERFLOW RAIN WATER CONDUCTOR
PD	PRESSURE DROP
PH	PHASE
PSI (G)	POUNDS PER SQUARE INCH (GAUGE)
RAC	RUN ABOVE CEILING
REF	RUN BELOW FLOOR
RIC	RUN IN CHASE
RD	ROOF DRAIN
RECIRC	REGICULATING
RO	ROOF OPENING
RWC	RAIN WATER CONDUCTOR
SA	SHOCK ARRESTOR
SAN	SANITARY
TYP	TYPICAL
IV	VOLTS
V	VENT
W	WITH
WCO	WALL CLEANOUT

PLUMBING GENERAL NOTES:

1. VERIFY LOCATIONS OF EXISTING AND NEW WORK REQUIRED FOR CONSTRUCTION. MODIFY POINTS OF CONNECTION TO EXISTING SYSTEMS AS NECESSARY FOR JOB CONDITIONS. PROVIDE VALVING, PIPING AND TEMPORARY CONNECTIONS TO NEW AND EXISTING SYSTEMS AS NECESSARY FOR WORK CONTINUATION.
2. ALL EXISTING SYSTEMS NOT IN THE CONSTRUCTION PHASE SHALL REMAIN IN SERVICE. ALL SYSTEM SHUTDOWNS SHALL BE COORDINATED AND OCCUR ONLY WITH THE APPROVAL OF THE FACILITY.
3. THIS CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING MADE NECESSARY BY HIS WORK. REMOVALS SHALL BE TO BEYOND FINISHED SURFACES TO ALLOW PATCHING AND FINISHING TO MATCH ADJACENT SURFACES.
4. DEMOLITION ITEMS SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY DISPOSED OF, EXCEPT AS DIRECTED BY THE OWNERS REPRESENTATIVE.
5. COORDINATE ALL WORK WITH THE FUNCTIONS OF ADJACENT AREAS INCLUDING ABOVE AND BELOW THE PROJECT AREA. PROVIDE SLAB CUTTING AND PATCHING AS NECESSARY TO MAKE NEW CONNECTIONS TO EXISTING UNDER FLOOR SANITARY PIPING.
6. CEILINGS THAT NEED TO BE TEMPORARILY REMOVED TO ALLOW FOR THE INSTALLATION OF PIPING OR EQUIPMENT AND ARE NOT SCHEDULED TO BE REMOVED ON THE ARCHITECTURAL DRAWINGS SHALL BE REMOVED AND REPLACED BY THIS CONTRACTOR. COORDINATE THE REMOVAL AND THE REPLACEMENT WITH THE ELECTRICAL CONTRACTOR AND THE FIRE PROTECTION CONTRACTOR.
7. DO NOT INSTALL ANY PLUMBING WORK ABOVE ELECTRICAL PANELS.
8. DO NOT INSTALL ANY PLUMBING WORK ABOVE OR THROUGH ELEVATOR EQUIPMENT ROOM, OR DATA ROOMS UNLESS SPECIFICALLY SERVING EQUIPMENT ROOM.
9. SLEEVE AND SEAL ALL PIPE PENETRATIONS OF WALL AND FLOORS. PACK VOID BETWEEN PIPE AND SLEEVE WITH INSULATION IN NON-RATED WALLS AND FLOORS. PACK VOID BETWEEN PIPE AND SLEEVE WITH INSULATION IN FIRE-RATED WALLS AND FLOORS. APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATION MAINTAINING INTEGRITY AND RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR, BE GROUTED INTO PLACE AND WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED AND SEALED WEATHER TIGHT.
10. ALL NEW EQUIPMENT INSTALLED ON THIS PROJECT CONTAINING BRASS AND/OR IN CONTACT WITH POTABLE WATER SUPPLY SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT OF 2011.

VERIFY SCALE

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



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

KEY PLAN			
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE			
NO.	DATE	REVISION	APPR.
AS BUILT REVISIONS			
Professional's Signature: _____ Date: 11/07/2024 Consultant's Signature: _____ Date: _____			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA			
PROJECT NO. DGS C-0503-0026 PHASE 1			
NORTH CENTRAL STU - HVAC UPGRADES Danville State Hospital - NCSTU Reed and Green Buildings Danville, Montour County, Pennsylvania			
LEGENDS AND NOTES			
DRAWN BY: RW	DATE: 11/07/2024	CONTRACT NO.:	P-1
CHECKED BY: RL	SCALE: AS NOTED		

FOR CONSTRUCTION 11/07/2024

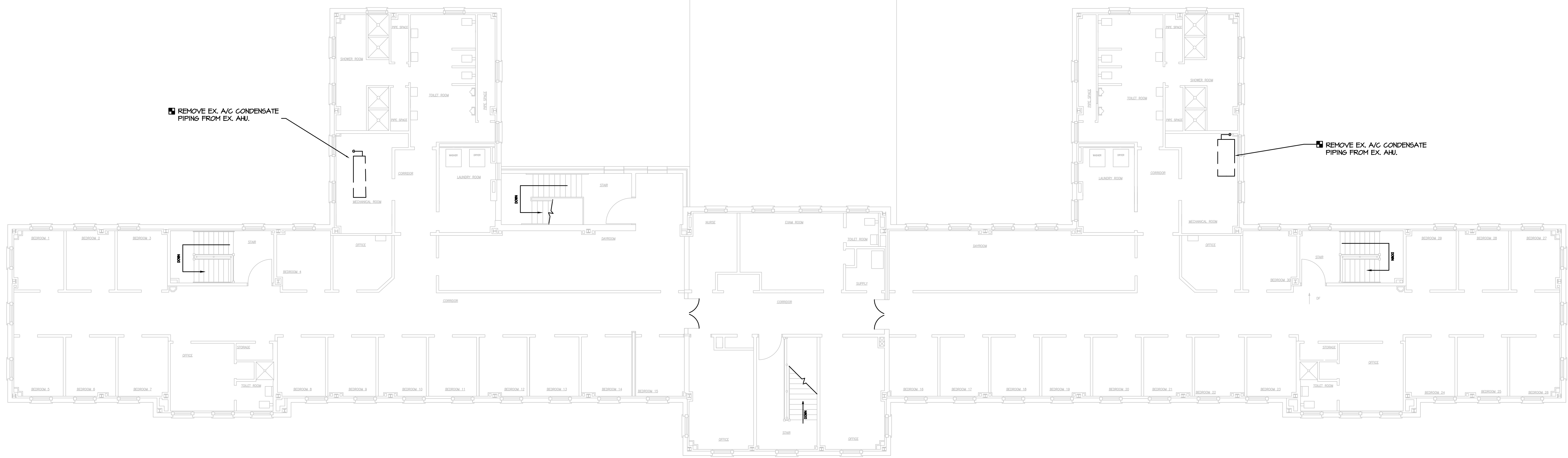


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CHECKED BY: RL	SCALE: AS NOTED	



P-3



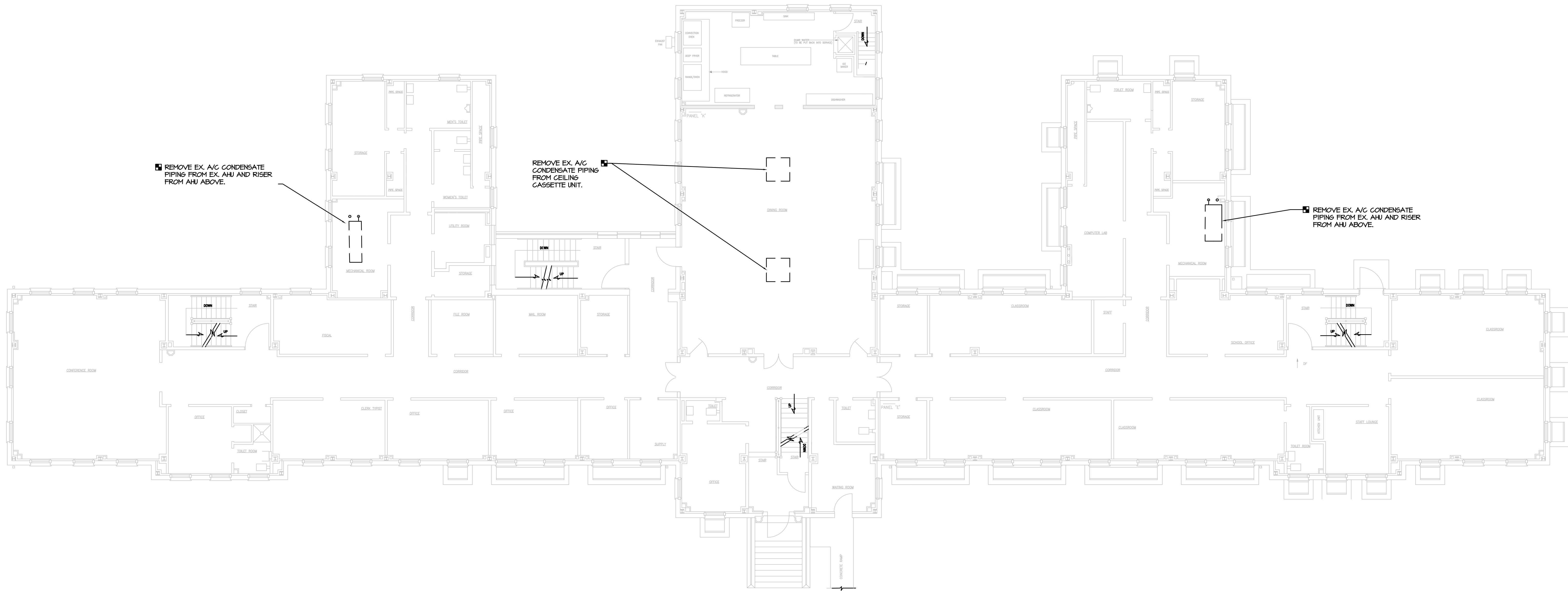
2 SECOND FLOOR PLAN - GREEN BUILDING - PLUMBING DEMOLITION
P-4 SCALE: 1/8"=1'-0"

VERIFY SCALE

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

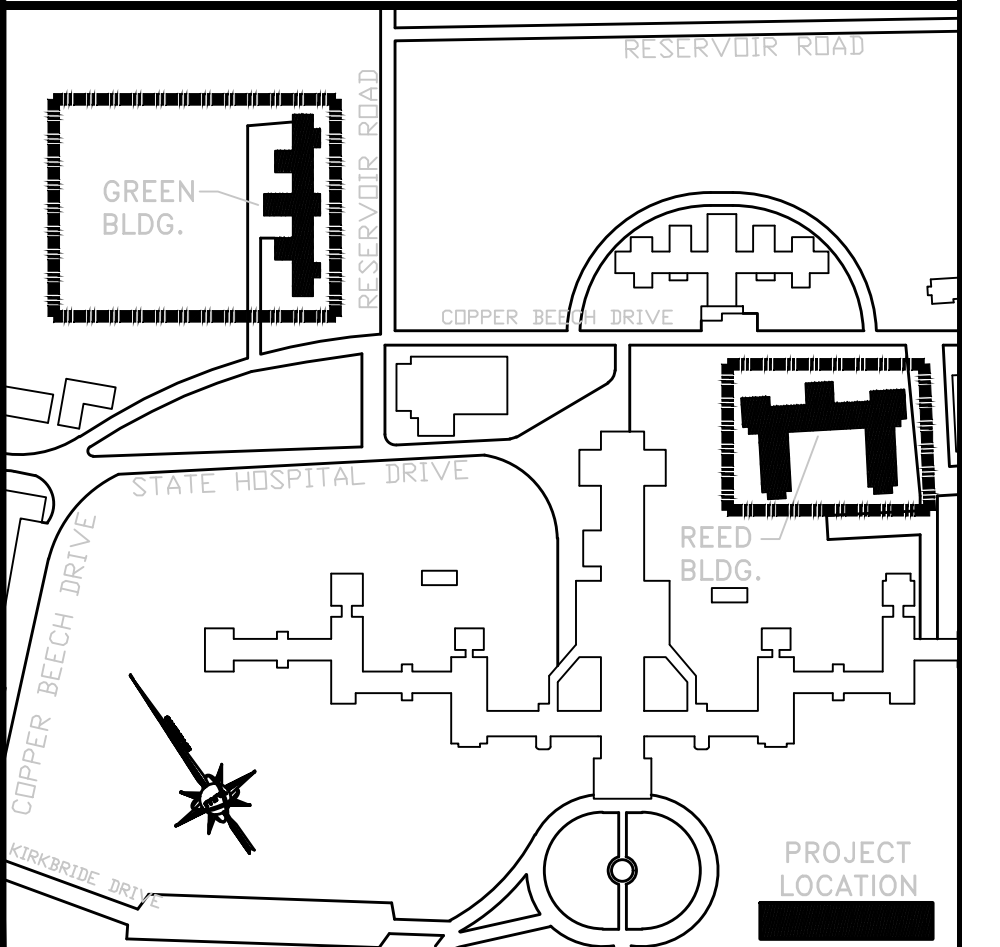


IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.



1 FIRST FLOOR PLAN - GREEN BUILDING - PLUMBING DEMOLITION
P-4 SCALE: 1/8"=1'-0"

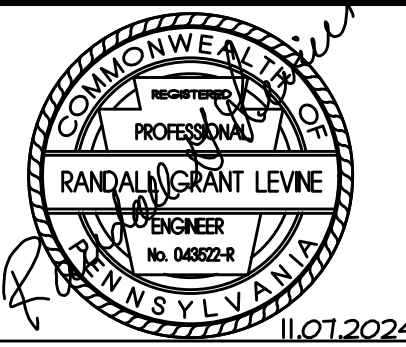
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

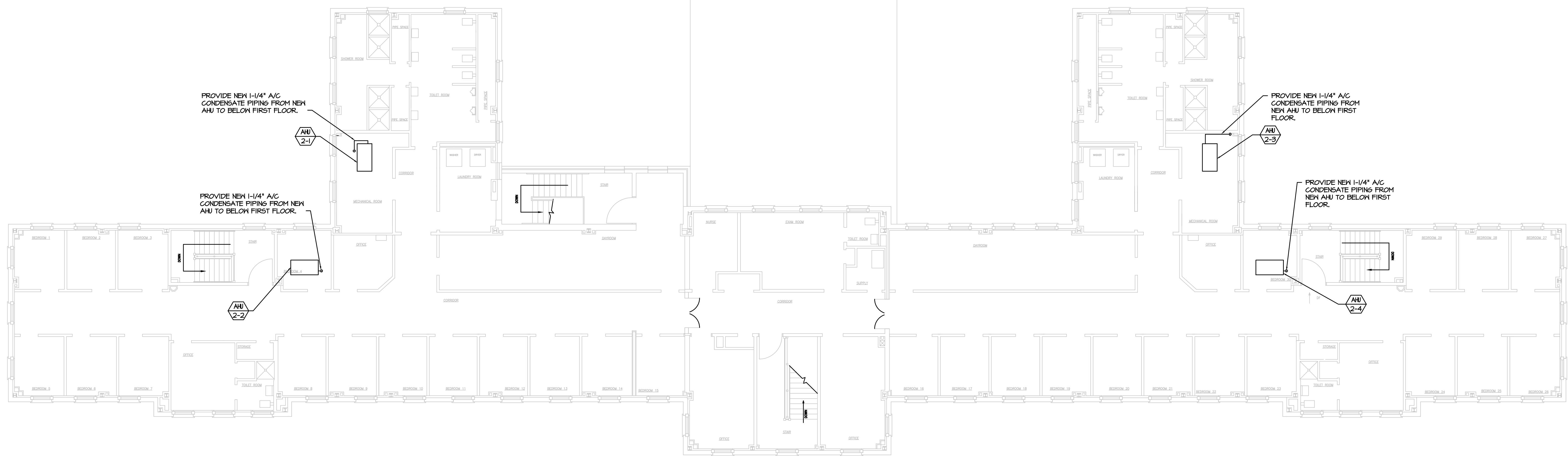
NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

FIRST AND SECOND FLOOR PLANS - GREEN
BUILDING - PLUMBING DEMOLITION

DRAWN BY: RW	DATE: 11/07/2024	DESIGNED BY:
CHECKED BY: RL	SCALE: AS NOTED	

P-4

FOR CONSTRUCTION 11/07/2024



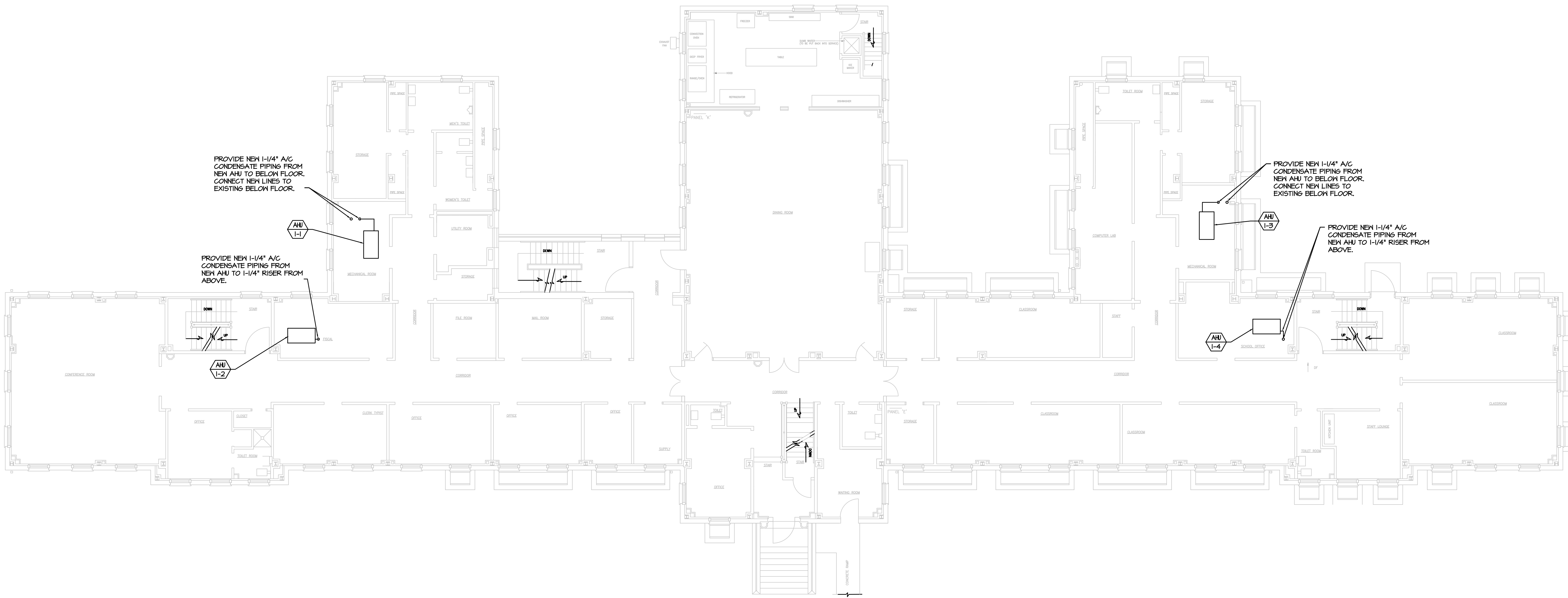
2 SECOND FLOOR PLAN - GREEN BUILDING - A/C CONDENSATE PIPING
P-5 SCALE: 1/8"=1'-0"

VERIFY SCALE

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



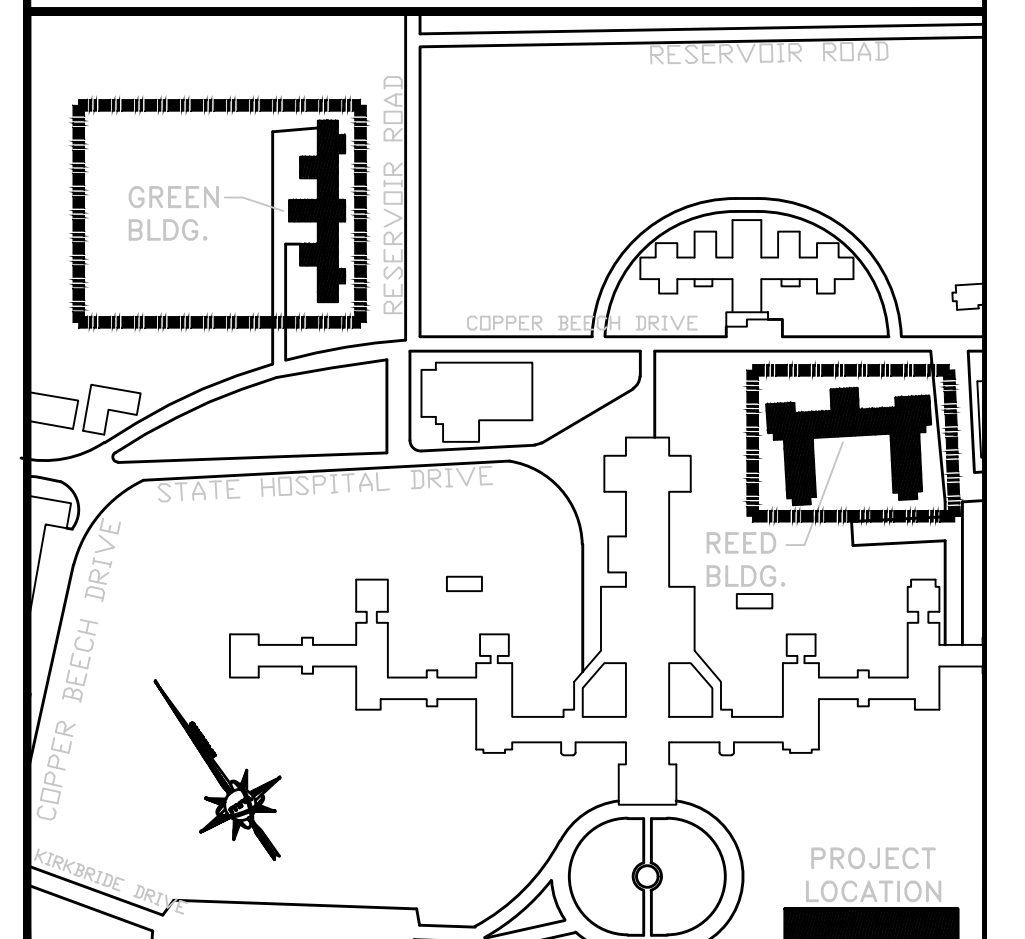
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.



1 FIRST FLOOR PLAN - GREEN BUILDING - A/C CONDENSATE PIPING
P-5 SCALE: 1/8"=1'-0"

FOR CONSTRUCTION 11/07/2024

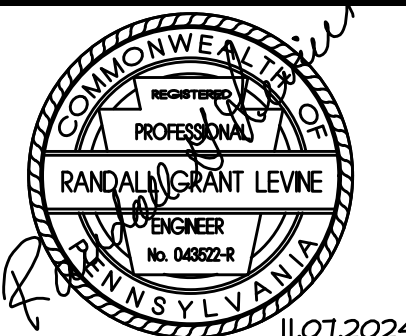
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

FIRST AND SECOND FLOOR PLANS - GREEN
BUILDING - A/C CONDENSATE PIPING

DRAWN BY: RW	DATE: 11/07/2024	CONTRACT NO.:
CHECKED BY: RL	SCALE: AS NOTED	P-5

ELECTRICAL LEGEND	
LIGHTING AND CONTROLS	
	INDICATES FIXTURES TYPE
	STRIP LIGHT
	WALL MOUNTED FIXTURE
	PENDANT MOUNTED FIXTURE
	SURFACE MOUNTED FIXTURE
	RECESSED FIXTURE
	FIXTURE ON NORMAL / EMERGENCY CIRCUIT
	RECESSED WALL WASHER
	FIXTURE ON EMERGENCY ONLY CIRCUIT
	SURFACE FLUORESCENT FIXTURE
	RECESSED FLUORESCENT FIXTURE
	FLUORESCENT FIXTURE ON NORMAL/EMERGENCY CIRCUIT
	TRACK LIGHTING
	EMERGENCY UNIT REMOTE HEAD
	EMERGENCY BATTERY UNIT, # OF HEADS AS INDICATED
	EXIT SIGN
	EXTERIOR POST MOUNT FIXTURE
	EXTERIOR LIGHTING BOLLARD
	EXTERIOR GROUND MOUNTED FIXTURE
	PHOTOCELL
	TIME CLOCK
	MANUAL MOTOR START, WITH OVERLOADS
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	FOUR WAY SWITCH
	WALL BOX DIMMER SWITCH
	CEILING MOUNTED OCCUPANCY SENSOR, * INDICATES WALL MOUNT
	WALL BOX OCCUPANCY SENSOR
	KEY OPERATED SWITCH
	SWITCH WITH PILOT LIGHT
	SWITCH WITH TIMER

POWER	
	JUNCTION BOX
	EXHAUST FAN
	MOTOR
	NON FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MOTOR STARTER
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
	CONTACTOR
	AUTOMATIC TRANSFER SWITCH
	PANELBOARD
	NORMAL/EMERGENCY PANEL BOARD
	AUTOMATIC TEMP. CONTROL PANEL WITH TELEPHONE/DATA BY ELECTRICAL CONTRACTOR
	ELECTRIC SERVICE METER
	AREA PROTECTION PANEL
	TRANSFORMER
	THREE POSITION SWITCH
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE WITH HORIZONTAL MOUNTING
	DUPLEX RECEPTACLE TOP HALF SWITCHED
	DUPLEX RECEPTACLE WITH GROUND FAULT
	DUPLEX RECEPTACLE ON NORMAL/EMERGENCY CIRCUIT
	DUPLEX RECEPTACLE WITH TRANSIENT VOLTAGE SURGE SUPPRESSION
	DUPLEX RECEPTACLE AT 6'-0" AFF. FOR TELEVISION
	DUPLEX RECEPTACLE IN FLUSH FLOOR BOX
	TAMPER RESISTANT DUPLEX RECEPTACLE
	QUAD RECEPTACLE (DOUBLE DUPLEX)
	SPECIAL POWER OUTLET
	THRUST LOCK RECEPTACLE
	DUPLEX RECEPTACLE WITH ISOLATED GROUND
	DUPLEX RECEPTACLE ON EMERGENCY WITH GROUND FAULT
	SURFACE RACEWAY 1C SINGLE CHANNEL, 1C DOUBLE CHANNEL, 1C THREE CHANNEL
	POWER POLE
	CIRCUIT BREAKER
	CABLE TRAY
	ELECTRIC BASEBOARD
	MICROROOM HEAD EMERGENCY OFF SWITCH
	PUSH BUTTON
	SOLENOID VALVE
	PULL BOX, SIZE AS REQUIRED BY NEC
	ENCLOSED CIRCUIT BREAKER

ABBREVIATIONS	
ACC	AIR COOLED CHILLER
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER
B	BOILER
C	CONDUIT
CH	CABINET HEATER
CIR	CIRCUIT
CU	CONDENSING UNIT
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ER	RELOCATE EXISTING DEVICE
ETR	EXISTING DEVICE TO REMAIN
EHV	ELECTRIC WALL HEATER
FC	FAN COIL
6, 6RD	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NC	NOT IN CONTRACT
NL	NIGHT LIGHT
OH	OVER HEAD
P	ELECTRIC PUMP
PC	PLUMBING CONTRACTOR
PNL	PANEL
R	REMOVE EXISTING DEVICE
RTU	ROOF TOP UNIT
UG	UNDERGROUND
UH	UNIT HEATER
U.O.N.	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VIF	VERIFY IN FIELD
WH	WALL HEATER
WP	WEATHERPROOF
*	DEVICE MOUNTED ABOVE COUNTER

FIRE ALARM/RESCUE ASSISTANCE	
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM HORN/STROBE
	FIRE ALARM STROBE
	FIRE ALARM SPEAKER/STROBE
	FIRE ALARM SPEAKER, STROBE, CHIME
	FIRE ALARM HORN
	FIRE ALARM SPEAKER ONLY
	FIRE ALARM PULL STATION
	SPRINKLER ALARM BELL
	SMOKE DETECTOR
	DUCT DETECTOR
	HEAT DETECTOR, RR INDICATES RATE OF RISE
	FLAME DETECTOR
	SMOKE DETECTOR WITH ELEVATOR RECALL ON AUXILIARY CONTACTS
	SMOKE DAMPER
	REMOTE ALARM LAMP
	DOOR HOLDER
	INDIVIDUAL ADDRESSABLE MODULE
	ZONE ADAPTER MODULE
	END OF LINE RESISTOR
	TAMPER SWITCH
	PRESSURE SWITCH
	SURGE PROTECTOR
	RESCUE ASSIST STATION
	RESCUE ASSIST SIGN

NOTE : THIS IS A GENERAL ELECTRICAL LEGEND. ALL SYMBOLS MAY NOT APPEAR ON THE PLANS. SEE PLANS FOR ACTUAL SYMBOLS USED.

SECURITY	
	CLOSED CIRCUIT TV CAMERA
	KEYPAD
	DOOR CONTACT
	SECURITY SYSTEM CONTROL PANEL
	CLOSED CIRCUIT TV MONITOR
	CARD ACCESS SYSTEM CONTROL PANEL
	PASSIVE INFRARED MOTION SENSOR
	EMERGENCY CALL BUTTON
	DOOR RELEASE
	CARD READER
	ELECTRIC STRIKE
	DOOR BELL
	GLASS BREAK

NURSE CALL	
	NURSE CALL ANNUNCIATOR PANEL
	NURSE CALL CONTROL PANEL
	NURSE CALL PATIENT STATION
	NURSE CALL CODE BLUE STATION
	NURSE CALL DUTY STATION
	NURSE CALL EMERGENCY CALL STATION WITH PULL CORD
	NURSE CALL HANDSET ASSEMBLY
	NURSE CALL MASTER STATION
	NURSE CALL MASTER STATION WITH HANDSET
	NURSE CALL STAFF STATION
	NURSE CALL STAFF ASSIST STATION
	NURSE CALL STAFF/DUTY STATION
	NURSE CALL TV INTERFACE
	NURSE CALL LOW VOLTAGE CONTROLLER - BED LIGHT
	NURSE CALL STAND ALONE ROOM AUDIO CONTROLLER
	NURSE CALL ZONE LIGHT
	NURSE CALL DOME LIGHT

COMMUNICATIONS	
	DATA OUTLET AT 18" AFF
	DATA/TEL. OUTLET IN FLUSH FLOOR BOX
	WALL VOICE OUTLET
	VOICE OUTLET AT 18" AFF
	VOICE/DATA OUTLET AT 18" AFF
	CEILING SPEAKER
	VOLUME CONTROL
	MICROPHONE OUTLET WITH INDICATES HANGING
	CLOCK/SPEAKER
	CLOCK WITH INDICATES WIRE GUARD
	INTERCOM STATION
	INTERCOM STATION WALL MOUNT SPEAKER, WP INDICATES WEATHER PROOF
	AUDIO SYSTEM CONTROL JACK
	TELEVISION OUTLET AT 18" AFF.
	TELEVISION OUTLET HIGH / LOW LOCATIONS
	TELEVISION OUTLET HIGH LOCATION
	WIRELESS ACCESS POINT
	DIMMING SYSTEM CONTROL JACK
	3/4" PAINTED PLYWOOD BACKBOARD

WIRING	
	DUAL LEVEL SWITCHING
	HOME RUN
	EMERGENCY WIRING
	NORMAL/EMERGENCY WIRING
	CRITICAL/NORMAL/EMERGENCY WIRING
	CONDUIT RUN CONCEALED IN WALL OR CEILING, U.O.N.
	UNDERGROUND UTILITIES
	EXTERIOR BELOW GRADE CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB TERMINATE WITH BUSHING OR CAP
	GROUND

MISCELLANEOUS	
	UNIT VENTILATOR
	ELECTRIC RESISTANCE HEAT
	UNIT HEATER
	VAV BOX
	VARIABLE FREQUENCY DRIVE
	MOTORIZED LOUVER
	THERMOSTAT
	MAN HOLE
	HAND HOLE
	PAD MOUNTED TRANSFORMER
	WATER HEATER
	POINT OF NEW CONNECTION
	EQUIPMENT TAG

GENERAL ELECTRICAL NOTES:

- THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE, ALL NFPA CODES, THE RULES SET FORTH BY THE USER AGENCY AND ALL OTHER NATIONAL, STATE OR MUNICIPAL CODES APPLICABLE TO THE PROJECT.
- ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION. ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REDEEMED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST.
- THE ELECTRICAL CONTRACTOR IS NOT REQUIRED TO PAY OR APPLY FOR ANY PERMITS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH THE EQUIPMENT OF OTHER TRADES AND BUILDING CONSTRUCTION.
- WHERE APPLICABLE (RENOVATION PROJECTS), REMOVE AND REINSTALL ALL EXISTING DEVICES WITHIN AREAS OF WORK, AS NECESSARY TO ACCOMMODATE NEW FINISHES. PROVIDE BOX EXTENSIONS/RELOCATIONS AS REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL RUN SEPARATE NEUTRAL CONDUCTORS FOR EACH CIRCUIT. SHARED NEUTRALS ARE NOT ACCEPTABLE.
- ALL NEW DEVICES/CONDUIT/WIRING SHALL BE CONCEALED IN WALLS IN FINISHED AREAS.
- ALL PANELBOARD DIRECTORIES AFFECTED BY THE PROJECT SCOPE SHALL BE UPDATED UPON COMPLETION OF PROJECT. REPLACED DIRECTORIES SHALL BE TYPED, HAND WRITTEN UPDATES WILL NOT BE ACCEPTED.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING WITH THE GENERAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CUTTING AND PATCHING THAT IS A RESULT OF ELECTRICAL WORK, ALL FINISHES, MATERIALS, COLORS, ETC. SHALL BE APPROVED BY THE USING AGENCY.
- THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE CONTRACT DRAWINGS INVOLVING GENERAL CONSTRUCTION & THE MECHANICAL TRADES FOR THE DETAILS AFFECTING THE PERFORMANCE OF THE ELECTRICAL CONTRACT.
- RACEWAYS, BOXES, ETC. ABOVE/WITHIN SUSPENDED CEILINGS SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE, INDEPENDENT OF THE CEILING SYSTEM, DCS, PIPING OR OTHER WORK.
- ALL ELECTRICAL WORK SHALL BE INSTALLED PER THE CONTRACT DOCUMENTS AND WRITTEN MANUFACTURER'S INSTRUCTION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND PROTECTION OF ALL ELECTRICAL EQUIPMENT RELATED TO THE PROJECT.
- COORDINATE ELECTRICAL DEMOLITION AND NEW WORK WITH CONSTRUCTION SEQUENCING.
- THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER PER THE NATIONAL ELECTRICAL CODE. THE ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO ADHERE TO MOST CURRENT NEIS STANDARD NECA I "STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING" PUBLISHED BY THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA).
- ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE THE INSTALLATION OF NEW CONDUITS WITH ANY EXISTING PIPING, CONDUITS, RULLBOXES AND EQUIPMENT. INSTALL ALL NEW ELECTRICAL EQUIPMENT WITHOUT CONFLICTS OR OBSTRUCTION OF ACCESSIBILITY TO NEW OR EXISTING EQUIPMENT OR PIPING.
- INTERRUPTIONS OF AN ESTABLISHED POWER SUPPLY SHALL BE CONDUCTED ONLY WHEN AUTHORIZED IN WRITING BY THE USING AGENCY. CONTRACTOR SHALL NOTIFY USING AGENCY FIVE (5) DAYS IN ADVANCE FOR A SERVICE INTERRUPTION AND SHALL STATE THE ESTIMATED TIME INVOLVED DURING WHICH THE POWER SUPPLY WILL BE INTERRUPTED. POWER SUPPLY INTERRUPTIONS SHALL BE COORDINATED WITH OTHER TRADES SO THERE WILL BE A MINIMUM OF INCONVENIENCE TO THESE TRADES. IF TEMPORARY POWER SERVICE IS REQUIRED DURING THE POWER SUPPLY INTERRUPTION IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO FURNISH, INSTALL, AND CONNECT THE TEMPORARY SERVICE AT NO ADDITIONAL COST TO THE USING AGENCY. (NORMAL AND/OR EMERGENCY POWER SOURCE, INCLUDING FUEL SUPPLY.)
- THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL UNDERGROUND ELECTRICAL WORK WITH THE GENERAL CONTRACTOR, DSH PHMS, AND USING AGENCY.
- PROVIDE TEMPORARY LIGHTING AND POWER DURING CONSTRUCTION AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK. TEMPORARY LIGHTING AND POWER SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE, OSHA REGULATIONS, AND THE REQUIREMENTS OF ANY OTHER AGENCY HAVING JURISDICTION. TEMPORARY POWER AND COMMUNICATIONS SHALL BE PROVIDED FOR NEW CONSTRUCTION SITE AND JOB SITE CONTRACTOR TRAILERS.
- THE ELECTRICAL CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK. HE SHALL REPORT ANY DISCREPANCIES TO THE PROFESSIONAL FOR CORRECTION PRIOR TO BEGINNING ANY WORK. DISCOVERY OF ANY DISCREPANCIES AFTER THE WORK HAS COMMENCED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- DO NOT SCALE THESE DRAWINGS. FOR EXACT DIMENSIONS, VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC AT THE JOB SITE.
- NO CONDUITS, WIRING, DEVICES, EQUIPMENT, ETC. SHALL PASS THROUGH OR BE LOCATED WITHIN ELEVATOR SHAFTS, MACHINE ROOMS, IT CLOSETS, STAIRWELLS, OR ELECTRICAL ROOMS UNLESS IT SPECIFICALLY SERVES THAT SPACE.
- PROVIDE EQUIPMENT SETUP, FINAL TESTING, ADJUSTMENTS, TRAINING, AND REPORTS ON NEW EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT, CIRCUITRY AND DEVICES REQUIRED TO CONNECT MECHANICAL/PLUMBING/FIRE PROTECTION EQUIPMENT.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SECURITY AND CAMERA SYSTEMS DURING CONSTRUCTION.
- THE USING AGENCY RESERVES THE RIGHT TO DESIGNATE THE ORDER IN WHICH THE CONTRACTOR SHALL PROCEED WITH ANY AND ALL PORTIONS OF THE WORK. WORK SHALL BE COORDINATED SO AS NOT TO INTERFERE WITH THE BUSINESS OF THE USING AGENCY. NO ADDITIONAL WORK SHALL BE STARTED WITH OUT THE APPROVAL OF THE USING AGENCIES FACILITIES DEPARTMENT.
- ALL NOISE, DIRT AND DUST SHALL BE KEPT AT AN ABSOLUTE MINIMUM. ALL AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY'S OPERATIONS. THE ELECTRICAL CONTRACTOR SHALL KEEP THE BUILDING FREE FROM RUBBISH AND DIRT. NO RUBBISH OR MATERIALS SHALL BE ALLOWED TO ACCUMULATE IN THE BUILDING OR ON THE PROPERTY, OR ON THE STREET OR SIDEWALK.
- ALL PERSONS EMPLOYED ON OR VISITING THE SITE OF THE WORK WILL BE REQUIRED TO OBSERVE THE USING AGENCIES SECURITY REGULATIONS AND MUST BE IDENTIFIED BY PROPER CREDENTIALS FURNISHED BY THE USING AGENCY.
- WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE LISTED FIRE RATINGS OF THE PENETRATED WALL OR FLOOR.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS AND CORING AS IT RELATES TO HIS WORK. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION TO THE PROFESSIONAL FOR REVIEW AND APPROVAL.
- SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS.
- THE CCTV SYSTEM AND SOUND SYSTEM SHALL REMAIN FULLY OPERATIONAL OUTSIDE THE WORK AREA AT ALL TIMES.

ELECTRICAL DEMOLITION NOTES:

- ELECTRICAL EQUIPMENT AND MATERIALS SHOWN ON DEMOLITION DRAWINGS ARE TO REMAIN UNLESS NOTED OTHERWISE.
- ELECTRICAL EQUIPMENT AND MATERIALS INDICATED ON DEMOLITION DRAWING AS "REMOVE EXISTING DEVICE (R)" SHALL BE REMOVED AS WORK OF THIS DIVISION UNLESS NOTED OTHERWISE.
- ELECTRICAL EQUIPMENT AND MATERIALS INDICATED ON DRAWINGS AS "RELOCATE EXISTING DEVICE (ER)" SHALL BE REMOVED, RELOCATED, REINSTALLED AND RECONNECTED UNLESS OTHERWISE NOTED ON THE DRAWINGS. BEFORE REINSTALLATION, EQUIPMENT AND MATERIALS SHALL BE CLEANED AND NICKS AND SCRATCHES SHALL BE TOUCHED UP. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SECURE STORAGE FOR THESE DEVICES. FINAL TESTING, AIMING AND MAKING THE SYSTEM OPERATIONAL OF THE CCTV SYSTEM SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. FINAL AIMING OF CCTV SHALL BE COORDINATED WITH THE USING AGENCY.
- DEVICES IN WALLS AND CEILINGS (EXAMPLES: RECEPTACLES, COMMUNICATION OUTLETS, LIGHT FIXTURES, FIRE ALARM, CCTV) THAT ARE EXISTING TO REMAIN IN AREAS WHICH ARE COSMETICALLY UPGRADED, SHALL BE TEMPORARILY DISCONNECTED AND REMOVED TO ALLOW FOR INSTALLATION OF NEW CEILING GRIDS, NEW WALL SURFACE PREPARATIONS, PAINTING, ETC. REINSTALL ALL DEVICES IN SIMILAR LOCATIONS AFTER WORK IS COMPLETED. PROVIDE BOX EXTENSIONS/RELOCATIONS AS REQUIRED. COORDINATE WITH PLANS FOR EXTENT OF NEW FINISHES IN EACH AREA. VERIFY ALL QUANTITIES OF DEVICES AND THE EXTENT OF ALL SUCH WORK AT THE SITE PRIOR TO BID DATE.
- CONDUIT REMAINING IN PLACE MAY BE REUSED, PROVIDED CONDUIT IS THOROUGHLY CLEANED BEFORE NEW WIRE IS INSTALLED. THE REUSE OF ANY CONDUIT SHALL REQUIRE THE INSTALLATION OF A GREEN WIRE GROUND. CONDUIT REMAINING IN PLACE, AND TO BE REUSED, SHALL RUN IN SAME DIRECTION THAT NEW CONDUIT AND WIRE WOULD RUN, IF NEW WIRE AND CONDUIT WERE INSTALLED. REMOVED CONDUIT AND WIRE SHALL NOT BE REUSED.
- CIRCUITS SHALL BE MADE CONTINUOUS WHERE ELECTRICAL ITEMS ARE REMOVED FROM THE MIDDLE OF THOSE CIRCUITS CONTAINING OTHER ITEMS TO REMAIN ON THOSE SAME CIRCUITS.
- IF AN ELECTRICAL ITEM TO BE REMOVED IS LOCATED ON THE END OF A CIRCUIT, REMOVE THE WIRE AND EXPOSED CONDUIT BACK TO THE NEXT ACTIVE ITEM ON THAT CIRCUIT.
- IF AN ELECTRICAL ITEM TO BE REMOVED IS THE ONLY ITEM ON THE CIRCUIT, REMOVE THE WIRE AND EXPOSED CONDUIT BACK TO THE PANELBOARD AND, UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE CIRCUIT BREAKER FOR THAT CIRCUIT SHALL BECOME A SPARE. REVISE PANEL DIRECTORY.
- COORDINATE DEMOLITION WITH OTHER TRADES AND THE USING AGENCY.
- FIRE ALARM DEVICES, CCTV CAMERAS AND SOUND SYSTEM SPEAKERS THAT ARE INDICATED TO REMAIN OR TO BE RELOCATED (RR), REMOVE AS REQUIRED, CLEAN, STORE AND REINSTALL AFTER NEW CEILING INSTALLATIONS/WALL FINISHES, INSTALL WHERE INDICATED ON DRAWINGS. A CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE SPACE. IN ADDITION TO WHAT IS INDICATED ON THE DRAWINGS, ADD THE FOLLOWING ADDITIONAL DEVICES TO BE RELOCATED (ER) AND INSTALLED AT LOCATIONS TO BE DETERMINED DURING CONSTRUCTION. THIS SHALL INCLUDE ALL WIRING AND CONDUIT FOR A COMPLETE AND FUNCTIONAL SYSTEM. THIS IS IN ADDITION TO WHAT IS SHOWN ON THE PLANS. 10 FIRE ALARM DEVICES, 20 CCTV CAMERAS AND 12 SOUND SYSTEM SPEAKERS.
- DISCONNECT AND REMOVE ALL EXISTING BRANCH CIRCUITS ASSOCIATED WITH HVAC AND PLUMBING EQUIPMENT INDICATED TO BE REMOVED. EQUIPMENT REMOVED BY OTHERS, WHERE NOTED, REUSE EXISTING CIRCUITS FOR NEW EQUIPMENT.
- ALL PANELBOARD DIRECTORIES AFFECTED BY THIS WORK SHALL BE UPDATED UPON COMPLETION OF THIS PROJECT. DIRECTORIES SHALL BE TYPED.
- PROVIDE BLANK COVERS ON ALL ABANDONED RECESSED ELECTRICAL BOXES. COVER MATERIAL/FINISH/COLOR TO MATCH NEARBY DEVICES.
- TEMPORARILY REMOVE AND REINSTALL EXISTING CEILING TILES AS REQUIRED FOR REMOVALS AND NEW WORK, AS REQUIRED. REPLACE DAMAGED CEILING TILES TO MATCH EXISTING.
- DO NOT SCALE THESE DRAWINGS FOR EXACT DIMENSIONS, VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC AT THE JOB SITE.
- EXISTING FIRE ALARM DEVICES IN THE WORK AREA MUST BE KEPT OPERATIONAL DURING CONSTRUCTION.
- ALL CONDUIT, WIRE, CABLE, ETC. FOUND TO BE SUPPORTED FROM THE EXISTING CEILINGS THAT IS TO BE REMOVED SHALL BE PROPERLY SUPPORTED AS REQUIRED.

KEY PLAN

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

Professional's Signature: _____ Date: 11/07/2024

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

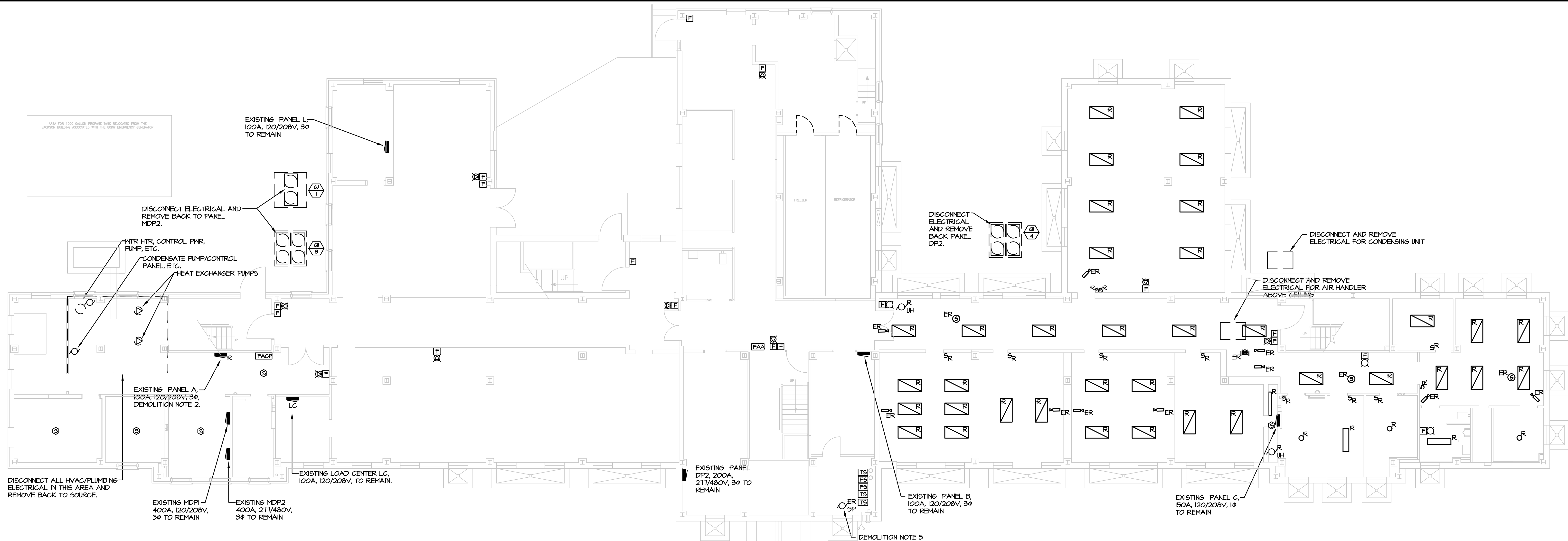
LEGENDS AND NOTES

DRAWN BY:	DATE:	CONTRACT NO.:
DG	11/07/2024	E-1
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DG	AS NOTED	E-1

LEAD PAINT: WORK SHALL BE CONDUCTED UNDER THE ASSUMPTION THAT ALL SURFACE COATINGS CONTAIN LEAD. ALL DISTURBANCE ACTIVITIES SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING OSHA 29 CFR 1926.62. WORK ACTIVITIES SHALL ENSURE AREAS BEYOND WORK AREA ARE NOT CONTAMINATED. REFER TO SECTION 01040 FOR ANY ADDITIONAL REQUIREMENTS.

THE A CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ELECTRICAL SYSTEMS INCLUDING BUT NOT LIMITED TO FIRE ALARM, CCTV CAMERAS, DOOR LOCKING SYSTEMS, AND SOUND SYSTEM SPEAKERS IN PREVIOUS, CURRENT, AND FUTURE SEQUENCES OPERATIONAL FOR THE DURATION OF AND AT THE COMPLETION OF EACH SEQUENCE. ALL EQUIPMENT SHALL BE RETURNED TO PRE-REMOVAL OPERATING CONDITIONS WITH THE CLIENT AGENCY SAVING THE FINAL REVIEW AND APPROVAL.

FOR CONSTRUCTION 11/07/2024



1 BASEMENT PLAN - GREEN BUILDING - ELECTRICAL DEMOLITION
E-2 SCALE: 1/8"=1'-0"

ELECTRICAL DEMOLITION NOTES:

1. ALL ELECTRICAL DEMOLITION WORK ASSOCIATED WITH REMOVAL OF HVAC AND PLUMBING EQUIPMENT SHALL BE PROVIDED UNDER BASE BID 1.

FIRE ALARM DEMOLITION NOTES:

1. ALL FIRE ALARM DEVICES AND CONTROL PANELS SHALL BE REMOVED. CONTRACTOR SHALL ASSUME TO ALSO REMOVE EXISTING ASSOCIATED FIRE ALARM DEVICE BACK BOXES, CONDUITS AND WIRING BACK TO FIRE ALARM CONTROL PANEL. NO WIRING AND/OR CONDUITS SHALL BE REUSED.

DEMOLITION NOTES:

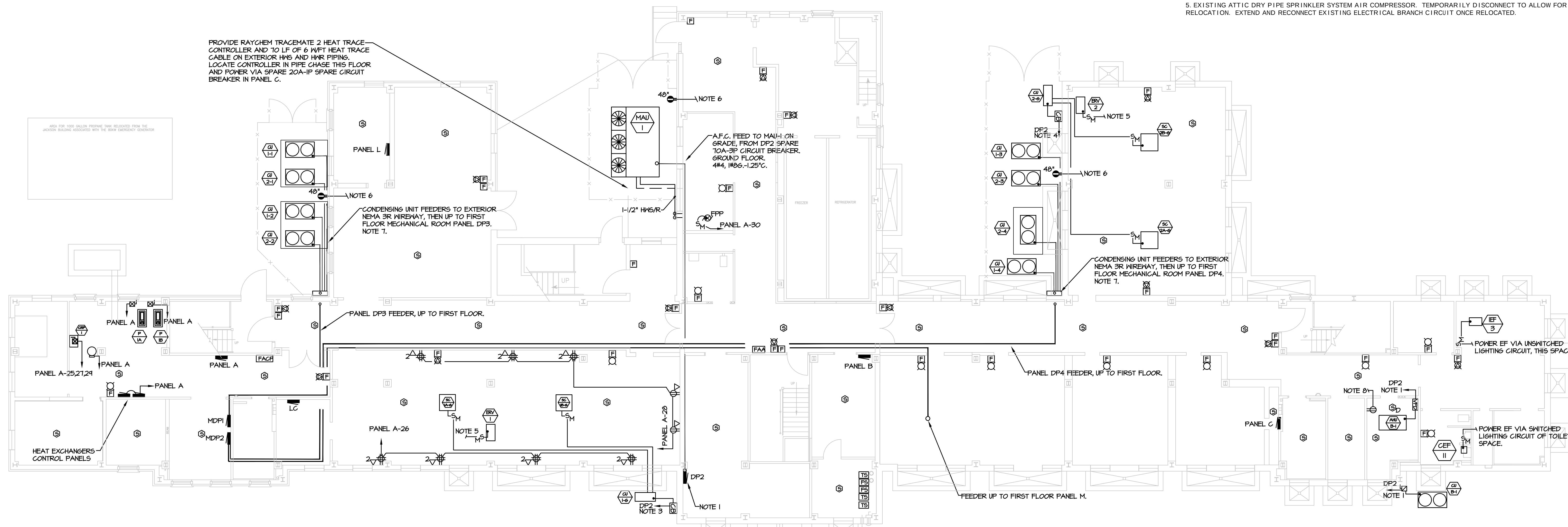
1. LABEL ALL EXISTING FEEDER CIRCUIT BREAKERS AND UPDATE PANEL DIRECTORY ACCORDINGLY.
2. DISCONNECT AND REMOVE EXISTING 208/120V, 100A MCB, 24 POLE PANEL. REPLACE WITH LARGER CAPACITY PANELBOARD PER SCHEDULE AND RECONNECT FEEDER AND BRANCH CIRCUITS.
3. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES INDICATED AS 'R'. REMOVE EXISTING ASSOCIATED SWITCH AND ASSOCIATED WIRING. HOMERUN WIRING TO REMAIN AND BE REUSED.
4. CEILING MOUNTED PAGING SPEAKER AND CCTV CAMERA DEVICES LABELED 'ER' SHALL BE TEMPORARILY SUPPORTED AS REQUIRED TO ALLOW FOR CEILING GRID SYSTEM REPLACEMENT, REINSTALL AS CONSTRUCTION ALLOWS.
5. EXISTING ATTIC DRY PIPE SPRINKLER SYSTEM AIR COMPRESSOR. TEMPORARILY DISCONNECT TO ALLOW FOR RELOCATION. EXTEND AND RECONNECT EXISTING ELECTRICAL BRANCH CIRCUIT ONCE RELOCATED.

VERIFY SCALE

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



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



NOTES:

1. UTILIZE EXISTING SPARE 70A-3P CIRCUIT BREAKER FOR MAU-1 FEEDER. PROVIDE TWO (2) SQUARE D, 480V-3P, 18 KAIC CIRCUIT BREAKERS IN EXISTING PANELBOARD MDP-2 FOR AHU-B-1 AND CU B-1 FEEDERS. EACH FEEDER TO BE 4#12, #12G-3/4" C.
2. QUAD RECEPTACLES AND DATA OUTLETS TO BE INSTALLED AT 18" A.F.F. WITH 3/4" EXPOSED EMT CONDUIT TO A.F.C. DATA OUTLETS TO BE CATEGORY 6 DEVICE, CATEGORY 6 WIRING TO DATA CLOSET ON FIRST FLOOR. DATA WIRING TO BE TERMINATED ON A NEW 24 PORT CAT 6 PATCH PANEL. ALL DEVICES/DEVICE PLATES TO BE WHITE FINISH. ASSUME 150 L.F. FROM DATA DROP TO DATA CLOSET ON FIRST FLOOR.
3. PROVIDE NEMA 3R, 208V, 40A-2P CIRCUIT BREAKER ENCLOSURE FOR CONDENSING UNIT CU-1-G SERVICE DISCONNECT. PROVIDE SQUARE D, I-LINE STYLE 40A-2P CIRCUIT BREAKER IN PANEL DP2 AND 2#8, 1 #8N, #10G-1" C. BRANCH CIRCUIT WIRING. CONDENSING UNIT REQUIRES 4#12-3/4" C. BETWEEN OUTDOOR UNIT AND EACH OF TWO (2) INDOOR UNITS FOR ON/OFF CONTROL.
4. PROVIDE NEMA 3R, 208V, 40A-2P CIRCUIT BREAKER ENCLOSURE FOR CONDENSING UNIT CU-2-G SERVICE DISCONNECT. PROVIDE SQUARE D, I-LINE STYLE 40A-2P CIRCUIT BREAKER IN PANEL DP2 AND 2#8, 1 #8N, #10G-1" C. BRANCH CIRCUIT WIRING. CONDENSING UNIT REQUIRES 4#12-3/4" C. BETWEEN OUTDOOR UNIT AND EACH OF TWO (2) INDOOR UNITS FOR ON/OFF CONTROL.
5. CONNECT TO EXISTING ROOM RECEPTACLE BRANCH CIRCUIT.
6. PROVIDE DUPLEX GFCI RECEPTACLE IN METAL WEATHERPROOF "WHITE IN USE" TYPE COVER AT 48" A.F.G. AND CONNECT TO NEAREST AVAILABLE INDOOR RECEPTACLE BRANCH CIRCUIT.

NOTES:

7. BRANCH CIRCUIT WIRING SHALL BE ROUTED WITH HVAC REFRIGERANT PIPING SUCH THAT EXPOSED CONDUITS ON EXTERIOR WALL ARE CONCEALED WITHIN NEW REFRIGERANT PIPING COVER.
8. RECEPTACLE FOR FLOOR MOUNTED CORD AND PLUG CONDENSATE PUMP. CONNECT TO NEAREST AVAILABLE EXISTING RECEPTACLE CIRCUIT.

2 BASEMENT PLAN - GREEN BUILDING - ELECTRICAL NEW WORK
E-2 SCALE: 1/8"=1'-0"

FOR CONSTRUCTION 11/07/2024

KEY PLAN

GREEN BLDG.

RESEV. ROOMS

STATE HOSPITAL DRIVE

REED BLDG.

PROJECT LOCATION

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

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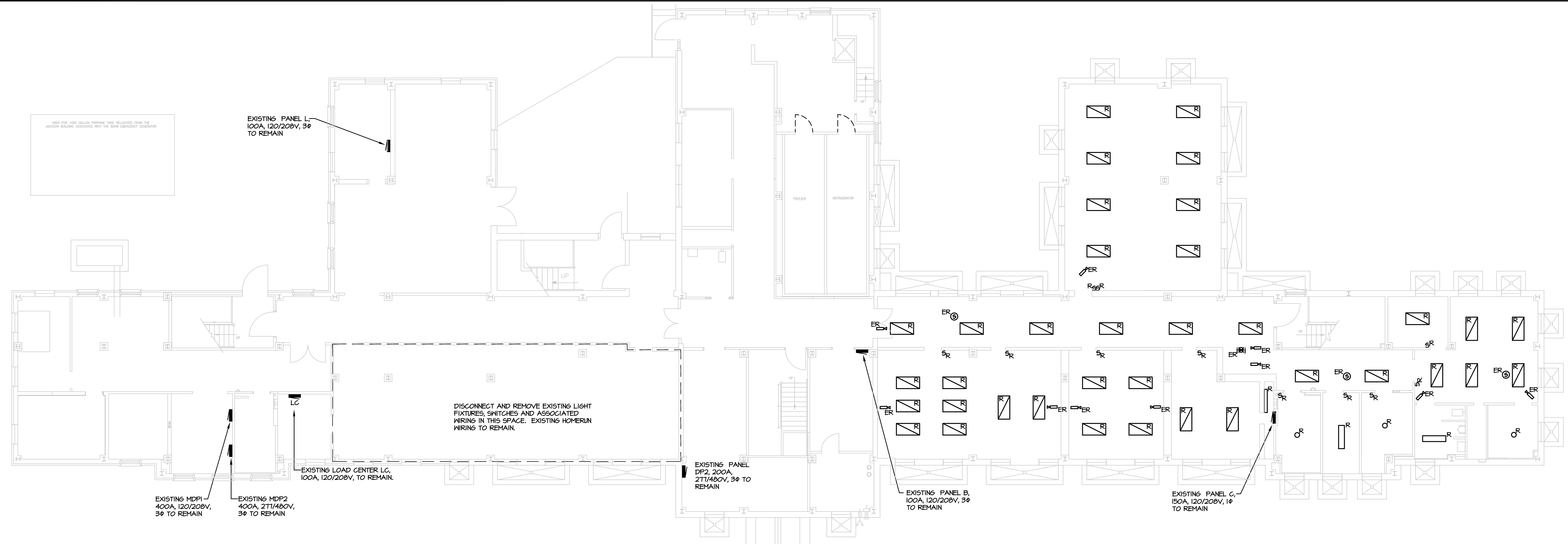
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

BASEMENT PLAN - GREEN BUILDING ELECTRICAL

DRAWN BY:	DATE:	CHECKED BY:
DG	11/07/2024	DG
DG	SCALE:	AS NOTED

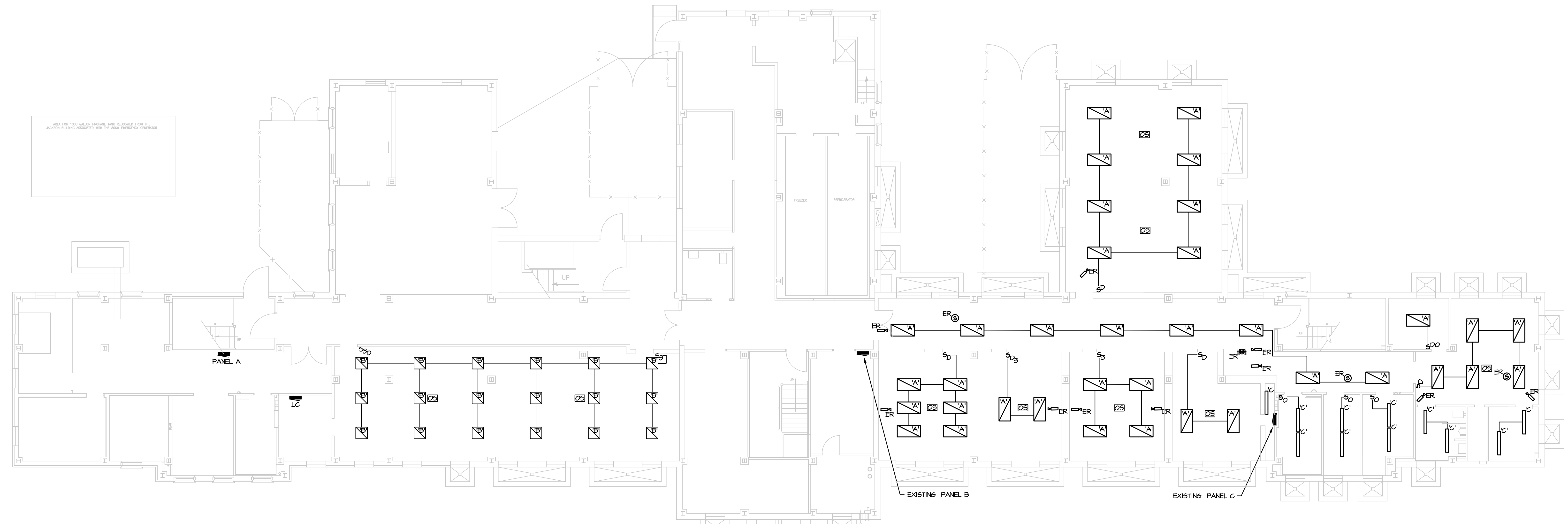
E-2



1 BASEMENT PLAN - GREEN BUILDING - ELECTRICAL DEMOLITION
E-2A SCALE: 1/8"=1'-0"

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES INDICATED AS 'R'. REMOVE EXISTING ASSOCIATED SWITCH AND ASSOCIATED WIRING. HOMERUN WIRING TO REMAIN AND BE REUSED.
2. CEILING MOUNTED PAGING SPEAKER AND CCTV CAMERA DEVICES LABELED 'ER' SHALL BE TEMPORARILY SUPPORTED AS REQUIRED TO ALLOW FOR CEILING GRID SYSTEM REPLACEMENT. REINSTALL AS CONSTRUCTION ALLOWS.



2 BASEMENT PLAN - GREEN BUILDING - ELECTRICAL NEW WORK
E-2A SCALE: 1/8"=1'-0"

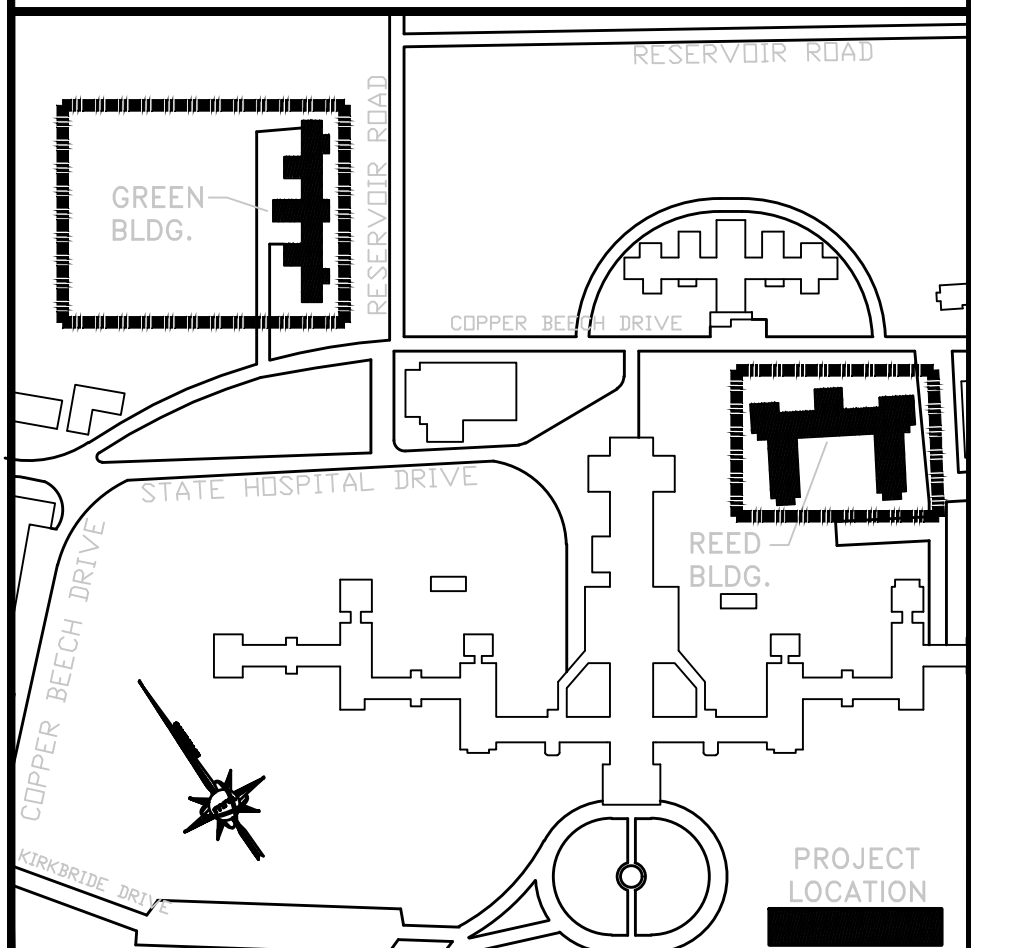
VERIFY SCALE

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



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

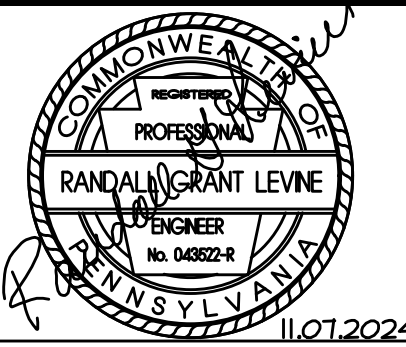
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

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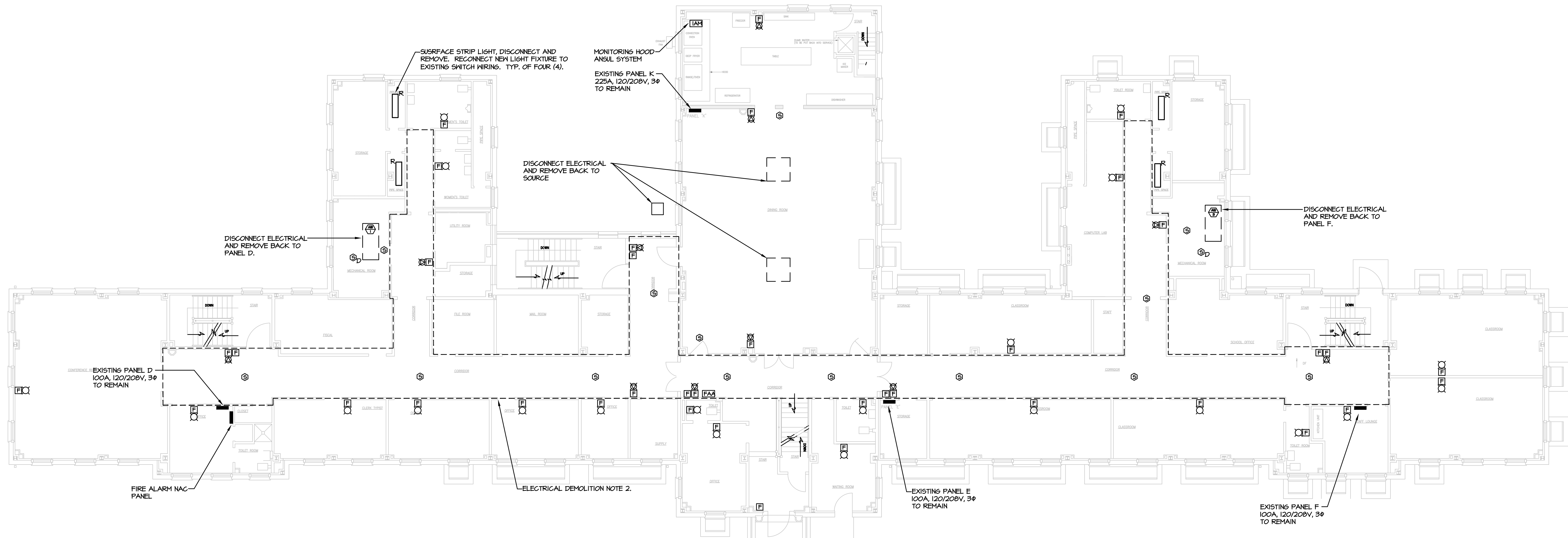
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

BASEMENT PLAN - GREEN BUILDING
LIGHTING

DRAWN BY: DG	DATE: 11/07/2024	CONTROLS NO.:
CHECKED BY: DG	SCALE: AS NOTED	E-2A

FOR CONSTRUCTION 11/07/2024



1 FIRST FLOOR PLAN - GREEN BUILDING - ELECTRICAL DEMOLITION
E-3 SCALE: 1/8"=1'-0"

ELECTRICAL DEMOLITION NOTES:

- ALL ELECTRICAL DEMOLITION WORK ASSOCIATED WITH THE REMOVAL OF HVAC AND PLUMBING EQUIPMENT SHALL BE PROVIDED.
- TEMPORARILY DISCONNECT AND REMOVE EXISTING 2X4 LED LIGHT FIXTURES, EXIT SIGNS, CCTV CAMERAS AND PAGING SPEAKERS THROUGHOUT THE CORRIDOR BOUNDARY AREA TO ALLOW FOR REMOVAL OF CEILING GRID SYSTEM AND HVAC DUCT MAINS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND STORAGE OF ALL REMOVED ITEMS. ALL EXISTING LOW VOLTAGE WIRING NOT ADEQUATELY SUPPORTED, SHALL BE SECURED APPROPRIATELY, INDEPENDENT OF CEILING GRID SYSTEM. REINSTALL ELECTRICAL ITEMS AND RECONNECT ONCE NEW CEILING GRID SYSTEM IS INSTALLED.

FIRE ALARM DEMOLITION NOTES:

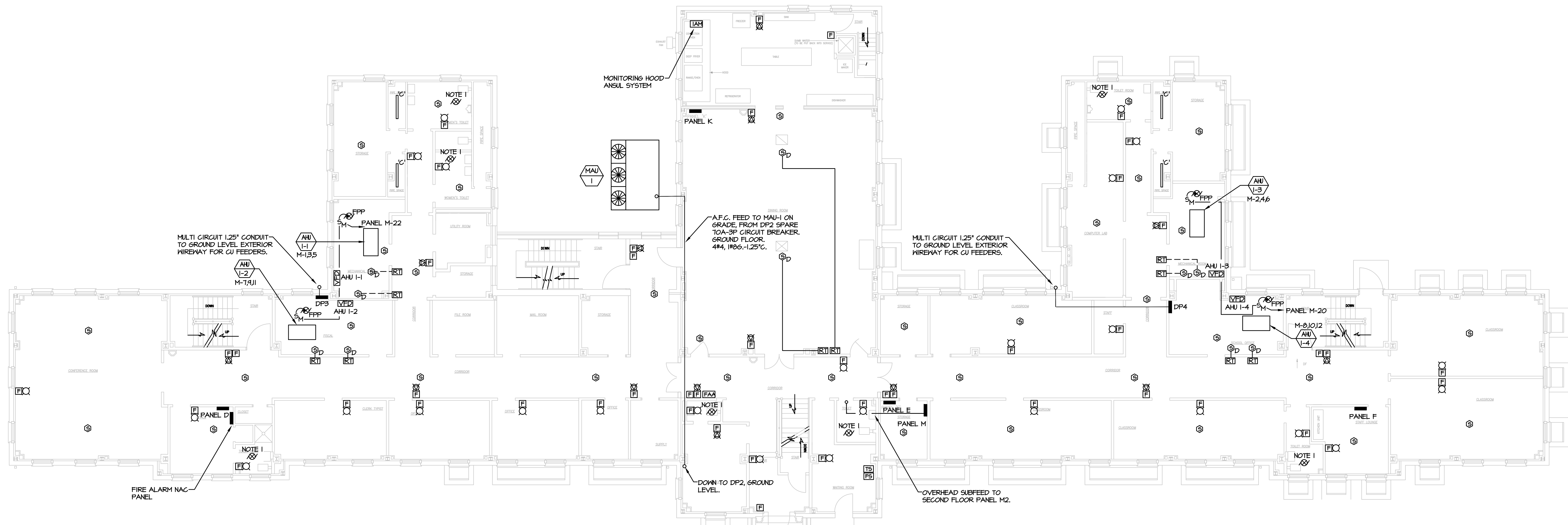
- ALL FIRE ALARM DEVICES AND CONTROL PANELS SHALL BE REMOVED. CONTRACTOR SHALL ASSUME TO ALSO REMOVE EXISTING ASSOCIATED FIRE ALARM DEVICE BACK BOXES, CONDUITS AND WIRING BACK TO FIRE ALARM CONTROL PANEL. NO DEVICES, WIRING AND/OR CONDUITS SHALL BE REUSED.

VERIFY SCALE

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



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



2 FIRST FLOOR PLAN - GREEN BUILDING - ELECTRICAL NEW WORK
E-3 SCALE: 1/8"=1'-0"

NOTES:

- CONNECT NEW EXHAUST FAN TO SWITCHED LIGHTING CIRCUIT.

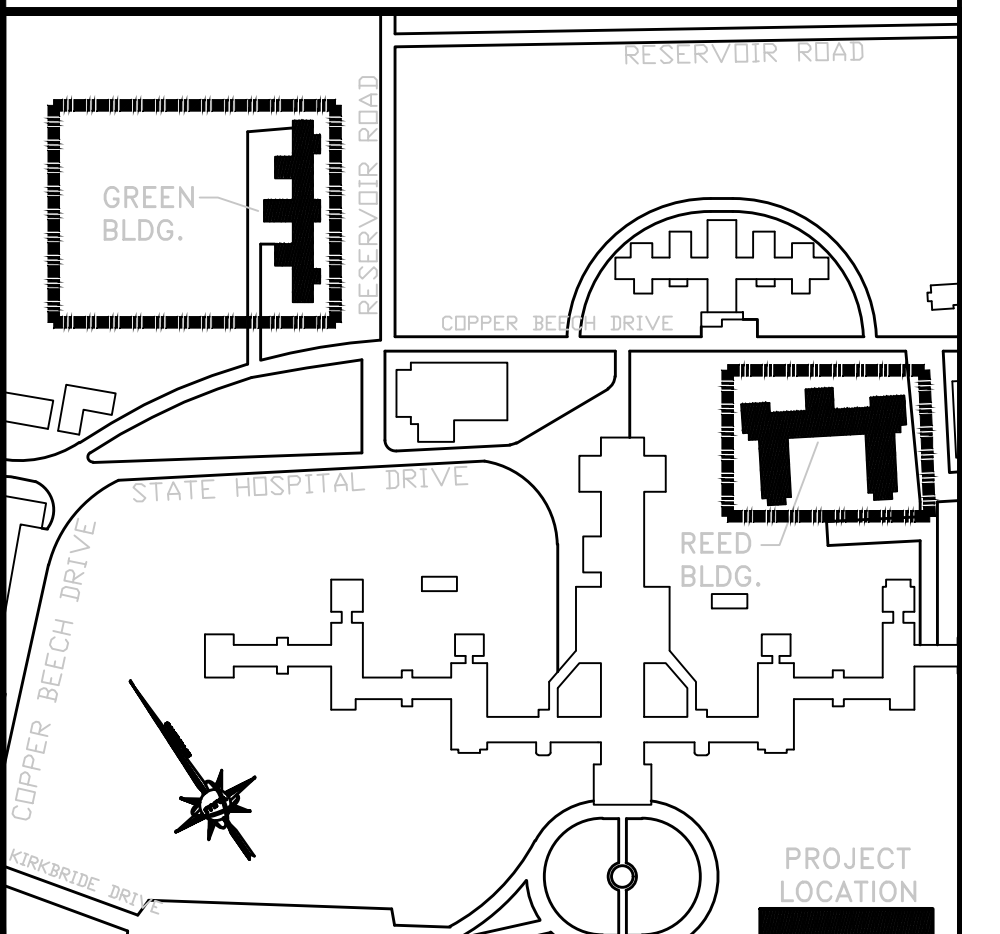
FIRE ALARM NOTES:

- ALL FIRE ALARM DEVICES, REMOTE TEST STATIONS 'RT', CONTROL PANELS AND ASSOCIATED WIRING SHALL BE PROVIDED.

GENERAL NOTES:

- FIRE ALARM DUCT SMOKE DETECTORS FOR NEW AHU/S SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. LOCATION OF INSTALLED DUCT SMOKE DETECTORS AS FOUND ON MECHANICAL DRAWINGS AND IN ACCORDANCE WITH NFPA 90A. REMOTE TEST STATIONS 'RT' TO BE LOCATED AS SHOWN AND VERIFIED WITH FACILITIES FOR FINAL LOCATION.

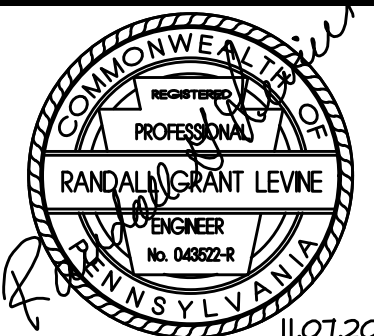
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

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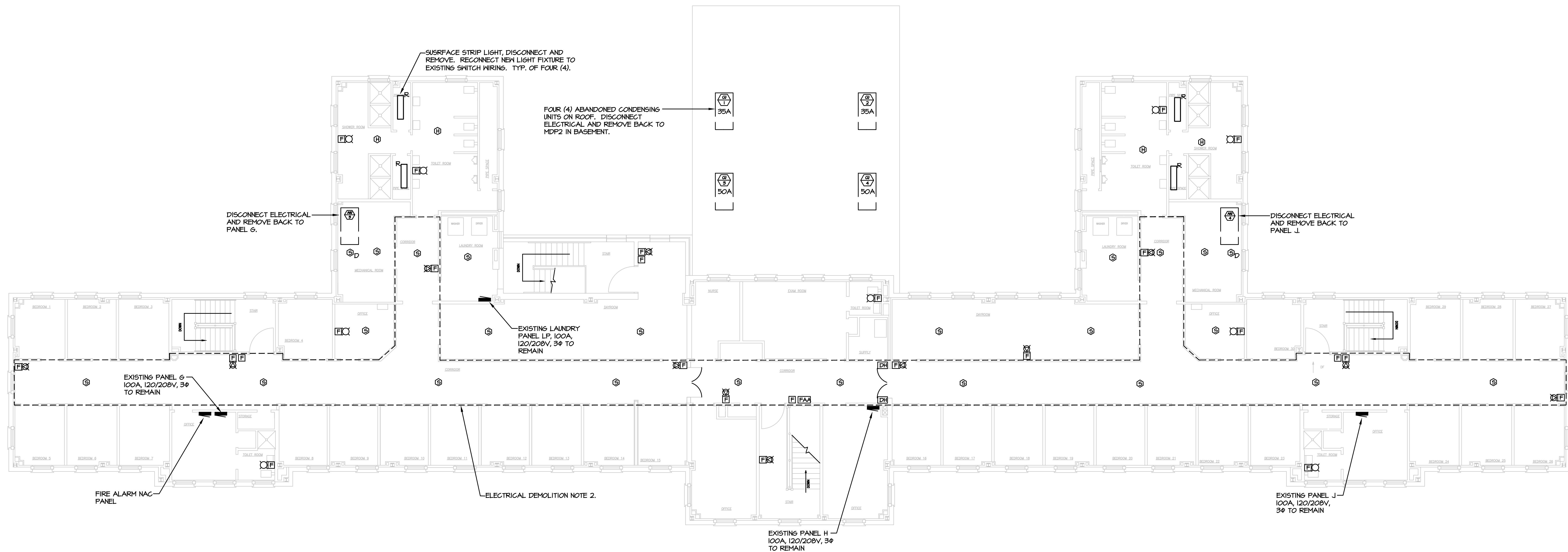
NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

FIRST FLOOR PLAN - GREEN BUILDING - ELECTRICAL

DRAWN BY:	DATE:	DATE:
DG	11/07/2024	11/07/2024
CHECKED BY:	SCALE:	SCALE:
DG	AS NOTED	AS NOTED

E-3

FOR CONSTRUCTION 11/07/2024



1 SECOND FLOOR PLAN - GREEN BUILDING - ELECTRICAL DEMOLITION
E-4 SCALE: 1/8"=1'-0"

ELECTRICAL DEMOLITION NOTES:

1. ALL ELECTRICAL DEMOLITION WORK ASSOCIATED WITH THE REMOVAL OF HVAC AND PLUMBING EQUIPMENT SHALL BE PROVIDED.
2. TEMPORARILY DISCONNECT AND REMOVE EXISTING 2X4 LED LIGHT FIXTURES, EXIT SIGNS, CCTV CAMERAS AND PAGING SPEAKERS THROUGHOUT THE CORRIDOR BOUNDARY AREA TO ALLOW FOR REMOVAL OF CEILING GRID SYSTEM AND HVAC DUCT MAINS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND STORAGE OF ALL REMOVED ITEMS. ALL EXISTING LOW VOLTAGE WIRING NOT ADEQUATELY SUPPORTED, SHALL BE SECURED APPROPRIATELY, INDEPENDENT OF CEILING GRID SYSTEM. REINSTALL ELECTRICAL ITEMS AND RECONNECT ONCE NEW CEILING GRID SYSTEM IS INSTALLED.

FIRE ALARM DEMOLITION NOTES:

1. ALL FIRE ALARM DEVICES AND CONTROL PANELS SHALL BE REMOVED. CONTRACTOR SHALL ASSUME TO ALSO REMOVE EXISTING ASSOCIATED FIRE ALARM DEVICE BACK BOXES, CONDUITS AND WIRING BACK TO FIRE ALARM CONTROL PANEL. NO DEVICES, WIRING AND/OR CONDUITS SHALL BE REUSED.

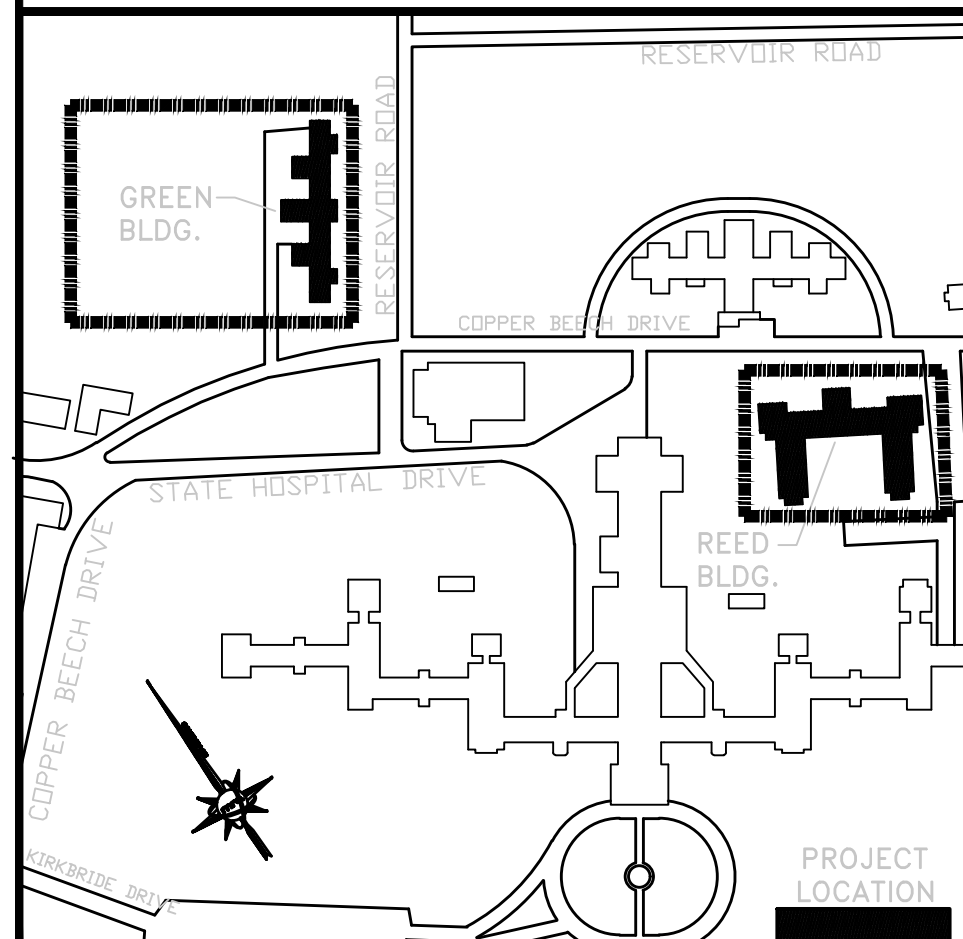
VERIFY SCALE

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



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

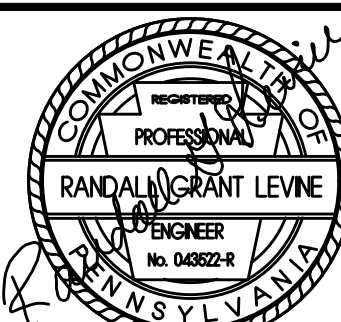
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS



Professional's Signature: 11/07/2024 Date: Consultant's Signature: Date:



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

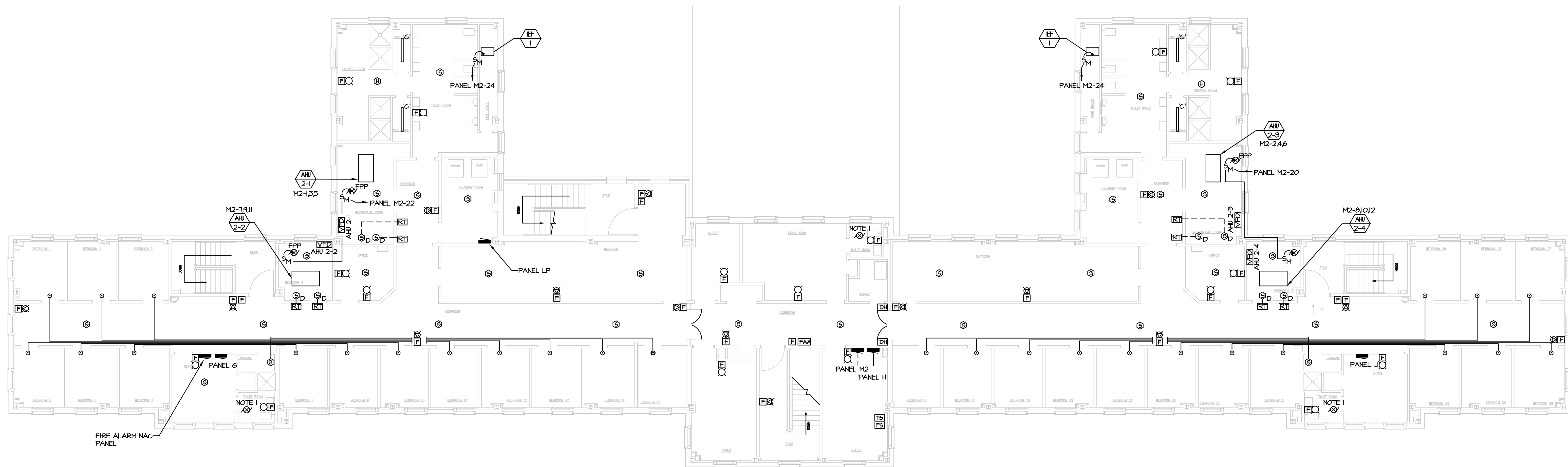
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

SECOND FLOOR PLAN - GREEN BUILDING -
ELECTRICAL

DESIGNED BY:	DATE:	CONTRACT NO.:
TP	11/07/2024	
DRAWN BY:	SCALE:	
DJ	AS NOTED	

E-4



2 SECOND FLOOR PLAN - GREEN BUILDING - ELECTRICAL NEW WORK
E-4 SCALE: 1/8"=1'-0"

NOTES:

1. CONNECT NEW EXHAUST FAN TO SWITCHED LIGHTING CIRCUIT.

FIRE ALARM NOTES:

1. ALL FIRE ALARM DEVICES, REMOTE TEST STATIONS 'RT', CONTROL PANELS AND ASSOCIATED WIRING SHALL BE PROVIDED.

GENERAL FIRE ALARM NOTES:

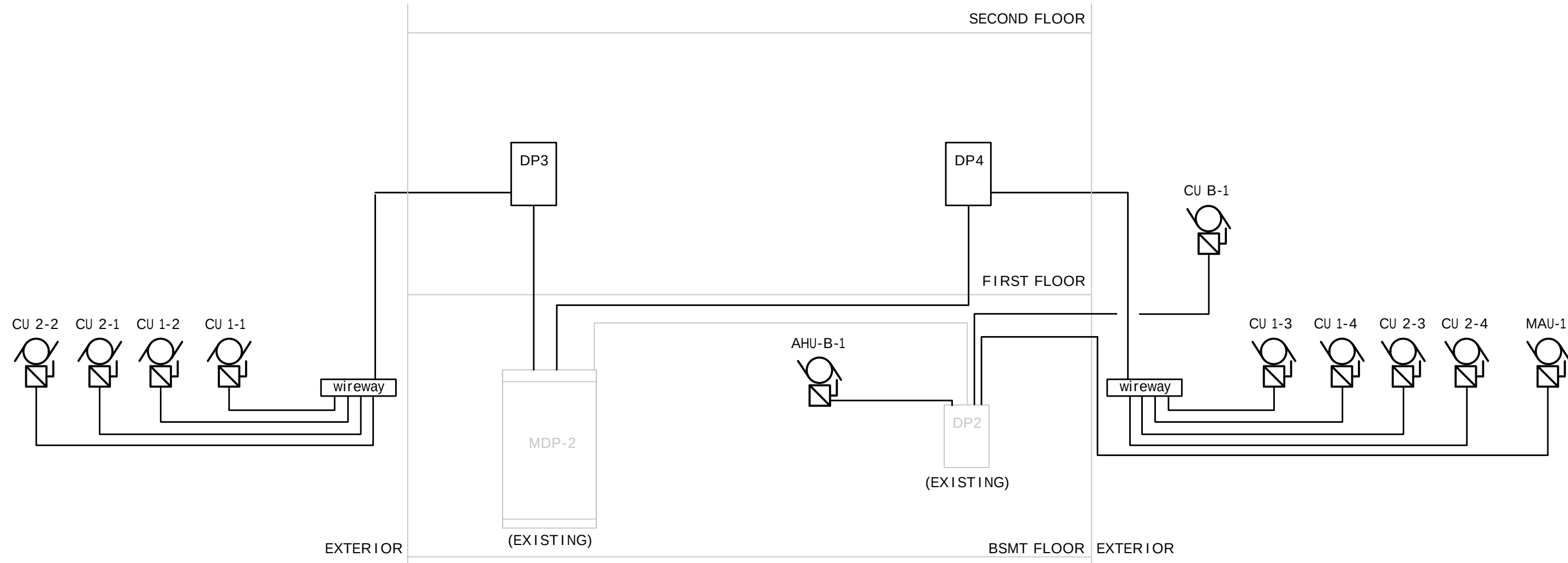
1. FIRE ALARM DUCT SMOKE DETECTORS FOR NEW AHU'S SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. LOCATION OF INSTALLED DUCT SMOKE DETECTORS AS FOUND ON MECHANICAL DRAWINGS AND IN ACCORDANCE WITH NFPA 90A. REMOTE TEST STATIONS 'RT' TO BE LOCATED AS SHOWN AND VERIFIED WITH FACILITIES FOR FINAL LOCATION.

2. RESIDENT ROOM AIR SAMPLING TYPE DEVICE TO BE MOUNTED IN CEILING ADJACENT TO ENTRY DOOR. PROVIDE AIR SAMPLING TUBE BACK TO AIR SAMPLING CONTROL PANEL. CONTROL PANEL SHALL BE MONITORED VIA FIRE ALARM SYSTEM.
-AIR SAMPLING DEVICE: XTALIS IVSP-61D-US
-AIR SAMPLING CONTROL PANEL: XTALIS VESDA-E VEI
-PIPING: XTALIS PLENUM RATED MICRO TUBE
-COMPLETE SYSTEM BY XTALIS (BERKSHIRE) SALES AGENCY, INTERCONNECTED TO AND MONITORED BY THE FIRE ALARM SYSTEM. PROVIDE 120V POWER AT CENTRAL CONTROL PANELS AS REQUIRED.

FOR CONSTRUCTION 11/07/2024

DESCRIPTION													VOLTAGE										MAINS															
PANEL DP3													277 480 VOLTS, 3 PHASE, 4 WIRE										BUS 125 AMPS RATING 18,000 AIC															
LOCATION FIRST FLOOR MECHANICAL ROOM WEST													AVAILABLE FAULT CURRENT - AIC										☒ LUGS ONLY ☐ MCB - AMPS															
FED FROM MDP2													☐ SUBFEED LUGS ENCLOSURE										☐ FEEDTHRU LUGS															
FEEDER SIZE 4#11#6G-1.25°C																							☐ TOP FEED ☐ BOTTOM FEED															
MISC. -													☒ SURFACE MOUNT ☐ FLUSH MOUNT																									
CIR NO	EQUIPMENT SERVED	CONDUCTOR/COND. SIZE				BREAKER	LOAD KVA				BREAKER	CONDUCTOR/COND. SIZE				EQUIPMENT SERVED	CIR NO																					
		PHASE	NEUT.	GRD.	COND.		AMPS	POLES	GA	BB		AD	GA	BB	AD			AMPS	POLES	PHASE	NEUT.	GRD.	COND.															
1	CU 1-1	8	8	10	75	30	3	X	X	5.5	A	5.5	X	30	3	8	8	10	75	CU 2-1	2																	
3								X	5.5	B	X	5.5	X								4																	
5								X	5.5	C	X	5.5	X								6																	
7	CU 1-2	8	8	10	75	30	3	X	X	5.5	A	5.5	X	30	3	8	8	10	75	CU 2-2	8																	
9								X	5.5	B	X	5.5	X								10																	
11								X	5.5	C	X	5.5	X								12																	
13	SPARE	-	-	-	-	30	3	X	X	-	A	-	X	30	3	-	-	-	-	SPARE	14																	
15								X	B	X	-	B	X								16																	
17								X	C	X	-	C	X								18																	
19	PROVISION	-	-	-	-	3	X	X	-	A	X	X	-	3	X	-	-	-	-	PROVISION	20																	
21								X	B	X	-	B	X								22																	
23								X	C	X	-	C	X								24																	
25	PROVISION	-	-	-	-	3	X	X	-	A	X	X	-	3	X	-	-	-	-	PROVISION	26																	
27								X	B	X	-	B	X								28																	
29								X	C	X	-	C	X								30																	
PANEL SHALL BE EQUIPPED WITH FULL HEIGHT BUSSES FOR C.B.S. AND PROVISIONS SHOWN													KEY													DENOTES SFCI TYPE C.B. REGD. DENOTES SHUNT TRIP TYPE C.B. REGD.												
200% NEUTRAL BUSES ☒ GROUND BUSES													TOTAL CONN. KVA 66													DENOTES SFCI TYPE C.B. REGD. DENOTES SHUNT TRIP TYPE C.B. REGD.												
ISOLATED GROUND BUSES													TOTAL CONN. AMPS 80													DENOTES SFCI TYPE C.B. REGD. DENOTES SHUNT TRIP TYPE C.B. REGD.												
INTEGRAL TVSS - KA													SPARE CAPACITY 20% 16													REMARKS PROVIDE SQUARE D, #FA34125, 125A-3P CIRCUIT BREAKER IN EXISTING SQUARE D PANEL MDP2.												
													TOTAL LOAD AMPS 96																									
													DIVERSIFIED AMPS 67																									

DESCRIPTION										VOLTAGE										MAINS									
PANEL DP4										277 480 VOLTS, 3 PHASE, 4 WIRE										BUS 125 AMPS RATING 18,000 AIC									
LOCATION FIRST FLOOR MECHANICAL ROOM EAST										AVAILABLE FAULT CURRENT - AIC										LUGS ONLY MCB - AMPS									
FED FROM MDP2										ENCLOSURE										SUBFEED LUGS FEEDTHRU LUGS									
FEEDER SIZE 4#11#6G-1.25°C																				TOP FEED BOTTOM FEED									
MISC. -										☒ SURFACE MOUNT ☐ FLUSH MOUNT										☐ TOP FEED ☐ BOTTOM FEED									
CIR NO	EQUIPMENT SERVED	CONDUCTOR/COND. SIZE				BREAKER	LOAD KVA				BREAKER	CONDUCTOR/COND. SIZE				EQUIPMENT SERVED	CIR NO												
		PHASE	NEUT.	GRD.	COND.	AMPS	POLES	GA	BB	AD	GA	BB	AD	AMPS	POLES			PHASE	NEUT.	GRD.	COND.								
1	CU 1-3	8	8	10	75	30	3	X	X	5.5	A	5.5	X	30	3	8	8	10	75	CU 2-3	2								
3								X	5.5	B	X	5.5	X								4								
5								X	5.5	C	X	5.5	X								6								
7	CU 1-4	8	8	10	75	30	3	X	X	5.5	A	5.5	X	30	3	8	8	10	75	CU 2-4	8								
9								X	5.5	B	X	5.5	X								10								
11								X	5.5	C	X	5.5	X								12								
13	SPARE	-	-	-	-	30	3	X	X	-	A	-	X	30	3	-	-	-	-	SPARE	14								
15								X	B	X	-	B	X								16								
17								X	C	X	-	C	X								18								
19	PROVISION	-	-	-	-	3	X	X	-	A	X	X	-	3	X	-	-	-	-	PROVISION	20								
21								X	B	X	-	B	X								22								
23								X	C	X	-	C	X								24								
25	PROVISION	-	-	-	-	3	X	X	-	A	X	X	-	3	X	-	-	-	-	PROVISION	26								
27								X	B	X	-	B	X								28								
29								X	C	X	-	C	X								30								
PANEL SHALL BE EQUIPPED WITH FULL HEIGHT BUSSES FOR C.B.S. AND PROVISIONS SHOWN										KEY										DENOTES SFCI TYPE C.B. REGD. DENOTES SHUNT TRIP TYPE C.B. REGD.									
200% NEUTRAL BUSES										TOTAL CONN. KVA 66										DENOTES SFCI TYPE C.B. REGD. DENOTES SHUNT TRIP TYPE C.B. REGD.									
ISOLATED GROUND BUSES										TOTAL CONN. AMPS 80										DENOTES SFCI TYPE C.B. REGD. DENOTES SHUNT TRIP TYPE C.B. REGD.									
INTEGRAL TVSS										SPARE CAPACITY 20% 16										REMARKS PROVIDE SQUARE D, #FA34125, 125A-3P CIRCUIT BREAKER IN EXISTING SQUARE D PANEL MDP2.									
										TOTAL LOAD AMPS 96																			
										DIVERSIFIED AMPS 67																			



1 PARTIAL ELECTRICAL RISER DIAGRAM-480V-NEW WORK

SCALE: NONE

NOTES:

1. REFER TO PANEL SCHEDULES FOR FEEDER SIZES.

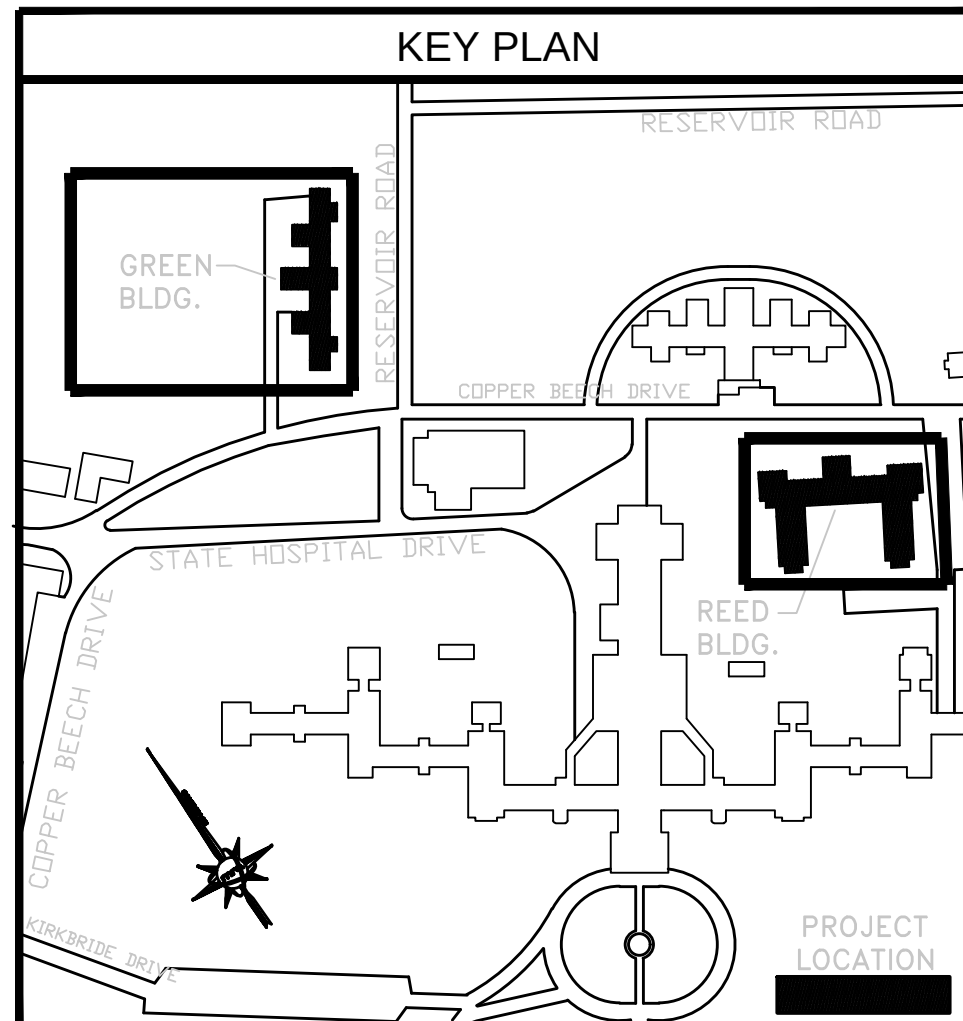
2. CONTRACTOR IN COORDINATION WITH EQUIPMENT SUPPLIER SHALL PROVIDE A COORDINATION STUDY, FAULT CURRENT STUDY AND ARC FLASH ANALYSIS. ALL NEW AND EXISTING PANELBOARDS AND MAIN SERVICE PANELBOARD SHALL BE PROVIDED WITH APPROPRIATE LABELS IN ACCORDANCE WITH STUDY RESULTS. ASSUME 18 KAIC AVAILABLE FAULT CURRENT AT EXISTING PANEL MDP-2.

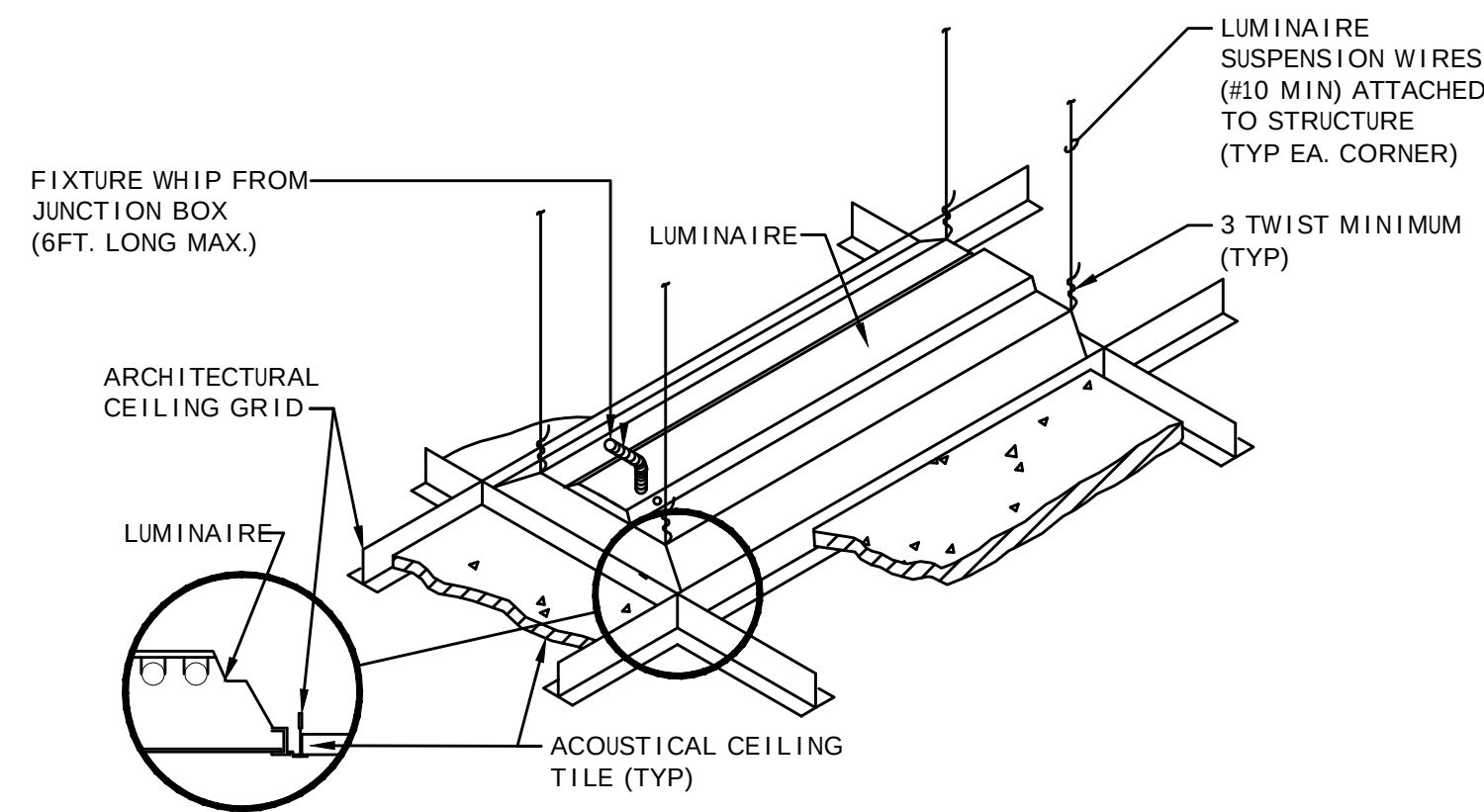
VERIFY SCALE

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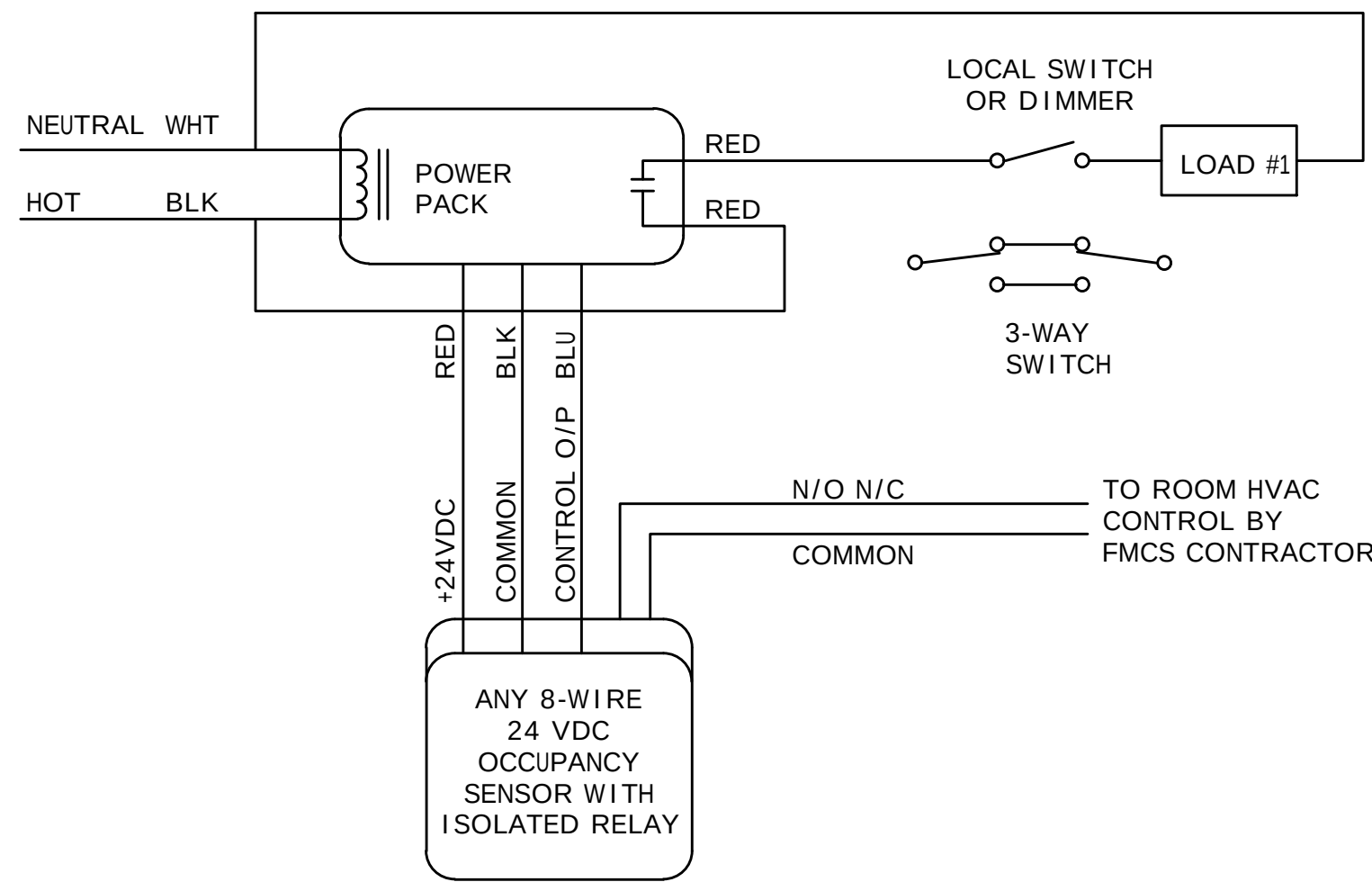


IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.

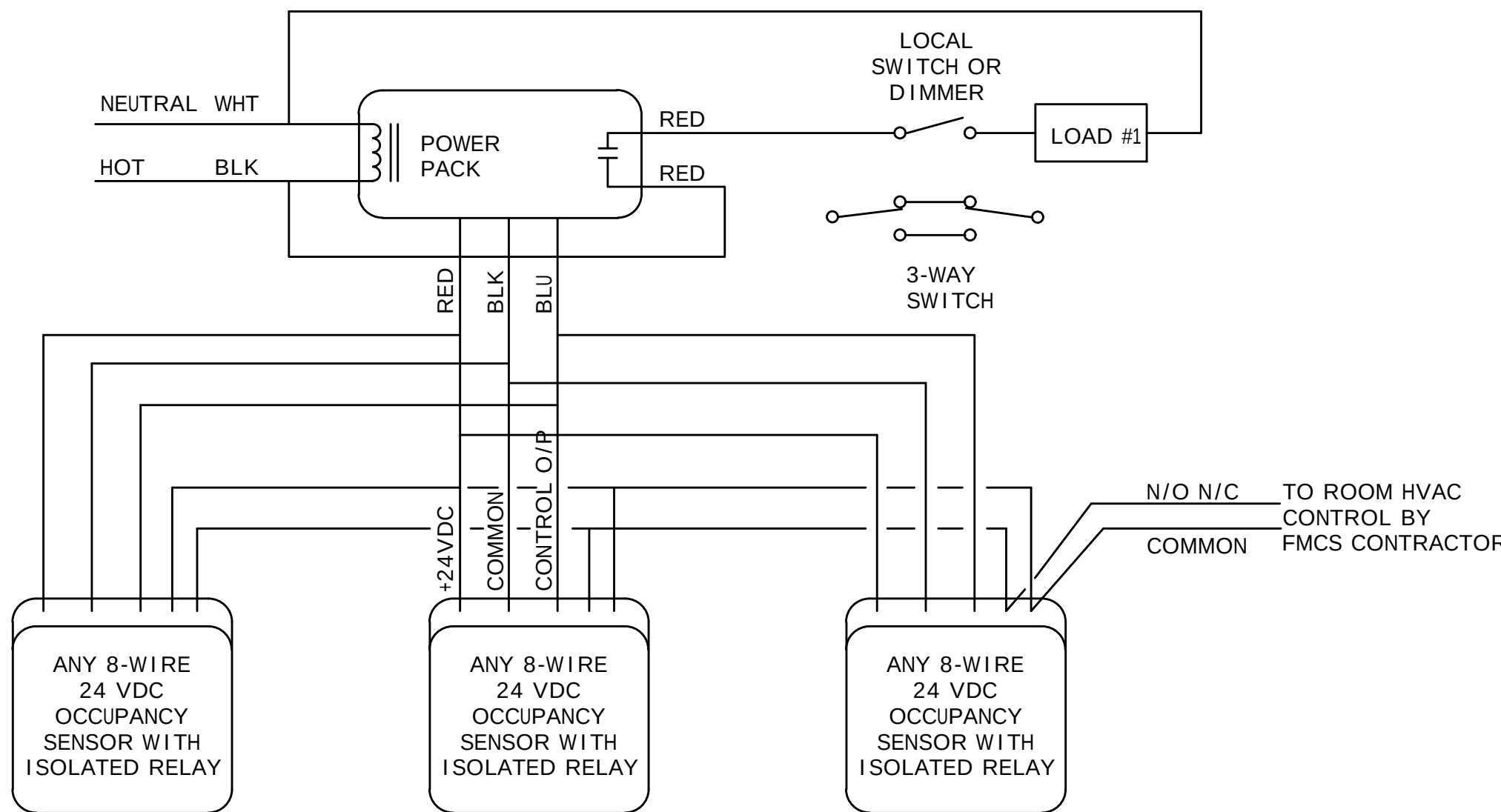




1 LUMINAIRE MOUNTING-LAY IN CEILING
E-6 SCALE: NONE UTILIZE SAME METHOD FOR GYPBOARD CEILING SYSTEM



2 SINGLE OCCUPANCY SENSOR WIRING DIAGRAM
E-6 SCALE: NONE



3 MULTIPLE OCCUPANCY SENSOR WIRING DIAGRAM
E-6 SCALE: NONE

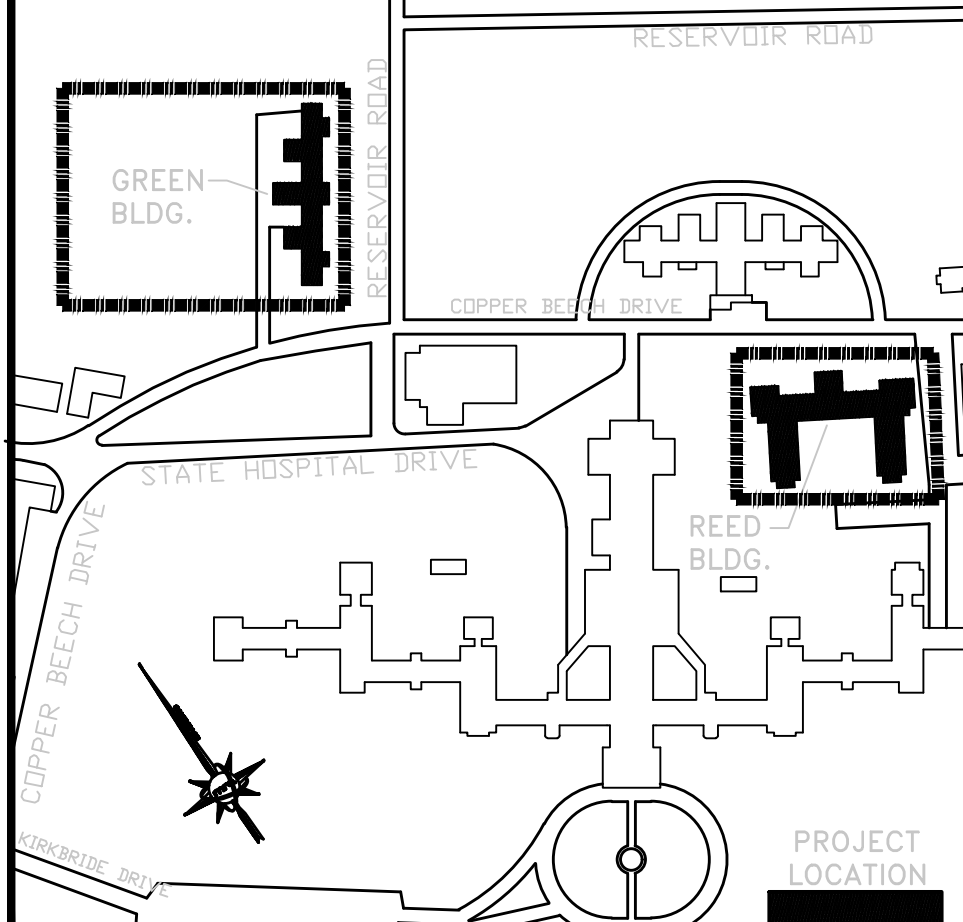
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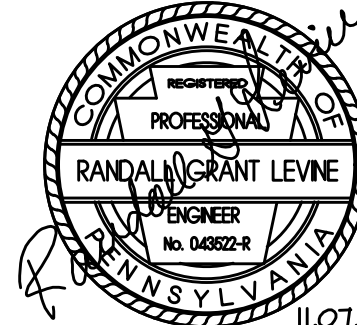
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS



Professional's Signature

DATE

Consultant's Signature

DATE

martinrogers
ENGINEERING CONSULTANTS
185 N. Pennsylvania Ave., Wilkes-Barre, PA 18701
1-800-855-1000 | 717-251-0880 | www.mrocc.com

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

SCHEDULES AND DETAILS - GREEN BUILDING

DRAWN BY	DATE	DATE	DATE
DG	11/07/2024		
CHECKED BY	SCALE		
DG	AS NOTED		

E-6

OCCUPANCY SENSOR SCHEDULE

S ₀	GREENGATE MODEL NO. ONW-D-1001-DMV-V
S ₀₀	GREENGATE MODEL NO. OSW-D-010
OS	EATON MODEL NO. OAC DT 2000 POWER PACK AS REQUIRED
S _D	GREENGATE MODEL NO. WBSD-010SLD-W

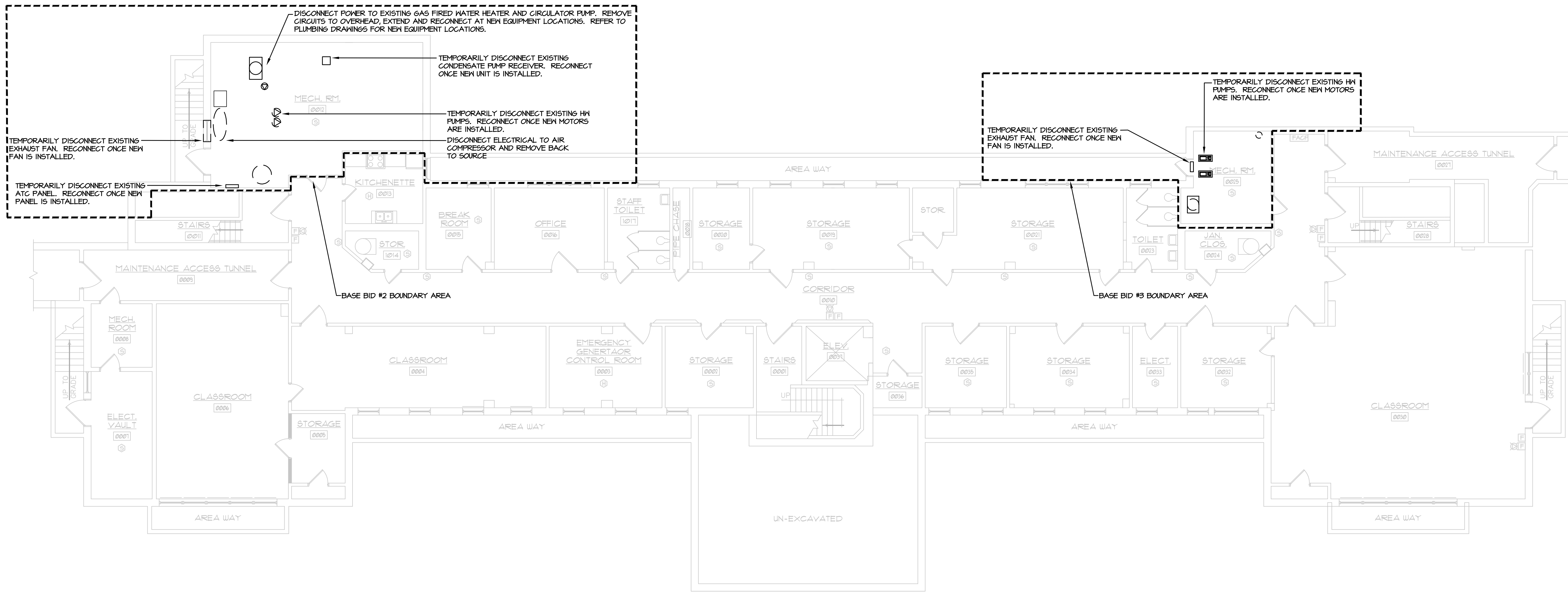
LIGHTING FIXTURE NOTES:

- LIGHTING FIXTURES INDICATED WITH AN 'E' AFTER THE FIXTURE TAG SHALL BE ON EMERGENCY POWER. EXAMPLE: FIXTURE 'CE' SHALL BE SAME AS 'C' EXCEPT ON EMERGENCY POWER (OR EMERGENCY BATTERY UNIT).
- E.C. SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL ITEMS.
- E.C. SHALL REVIEW ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING FINISHES. ADDITIONAL SUPPORTING/PLASTER TRIM RING SHALL BE PROVIDED AS REQUIRED.
- ALL LIGHTING FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE INDEPENDENTLY FROM CEILING SYSTEM. 1x4, 2x2 AND 2x4 SHALL HAVE (4) FOUR SUPPORTS. DOWNLIGHT FIXTURES SHALL HAVE TWO (2) SUPPORTS.
- NEUTRAL CONDUCTORS SHALL NOT BE SHARED.
- ALL EXIT LIGHTS, EXTERIOR LIGHTING FIXTURES, NIGHTLIGHTS SHALL BE CONNECTED AHEAD OF LOCAL SWITCHING.
- CATALOG DESIGNATIONS MAY NOT INCLUDE REQUIRED MOUNTING HARDWARE AND OPTIONS NECESSARY FOR A COMPLETE SYSTEM. COORDINATE COMPLETE CATALOG NUMBERS WITH LIGHT FIXTURE REPRESENTATIVE PRIOR TO SUBMISSION.

LIGHTING FIXTURE SCHEDULE

TAG	MANUFACTURER & CAT. NO.	WATTS	VOLTS	LAMP DATA	MOUNTING	COMMENTS
A	COOPER LTG 24FPX-50-UNV-L840-HE-HCD	50	UNV	LED	RECESSED	2x4 LED FLAT PANEL-5000 LUMENS
B	COOPER LTG 22FPX-40-UNV-L840-HE-HCD	35	UNV	LED	RECESSED	2x2 LED FLAT PANEL-4000 LUMENS
C	COOPER LTG 45T2L4040R-AYC-CHAIN/SET-U	40	UNV	LED	PENDANT/SURFACE	LINEAR LED INDUSTRIAL LIGHT W/CHAIN, 4400 LUMENS, MTG. 8'-0" A.F.F.
E	COOPER LTG LPX-R5	2.2	UNV	LED	SURFACE	SINGLE/DOUBLE FACE/ARROWS AS INDICATED

FOR CONSTRUCTION 11/07/2024



1 BASEMENT PLAN - REED BUILDING - ELECTRICAL DEMOLITION
SCALE: 1/8"=1'-0"

ELECTRICAL DEMOLITION NOTES-BASE BID 2 AND BASE BID 3:

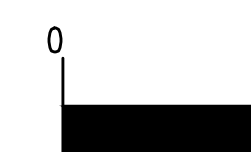
1. ALL ELECTRICAL DEMOLITION WORK ASSOCIATED WITH REMOVAL OF HVAC AND PLUMBING EQUIPMENT SHOWN IN THE SPECIFIC BOUNDARY AREA SHALL BE PROVIDED UNDER EITHER BASE BID 2 (INCLUDING BASE BID 1 WORK) OR BASE BID 3 (INCLUDING BASE BID 1 WORK).

FIRE ALARM DEMOLITION NOTES-BASE BID 2 AND BASE BID 3:

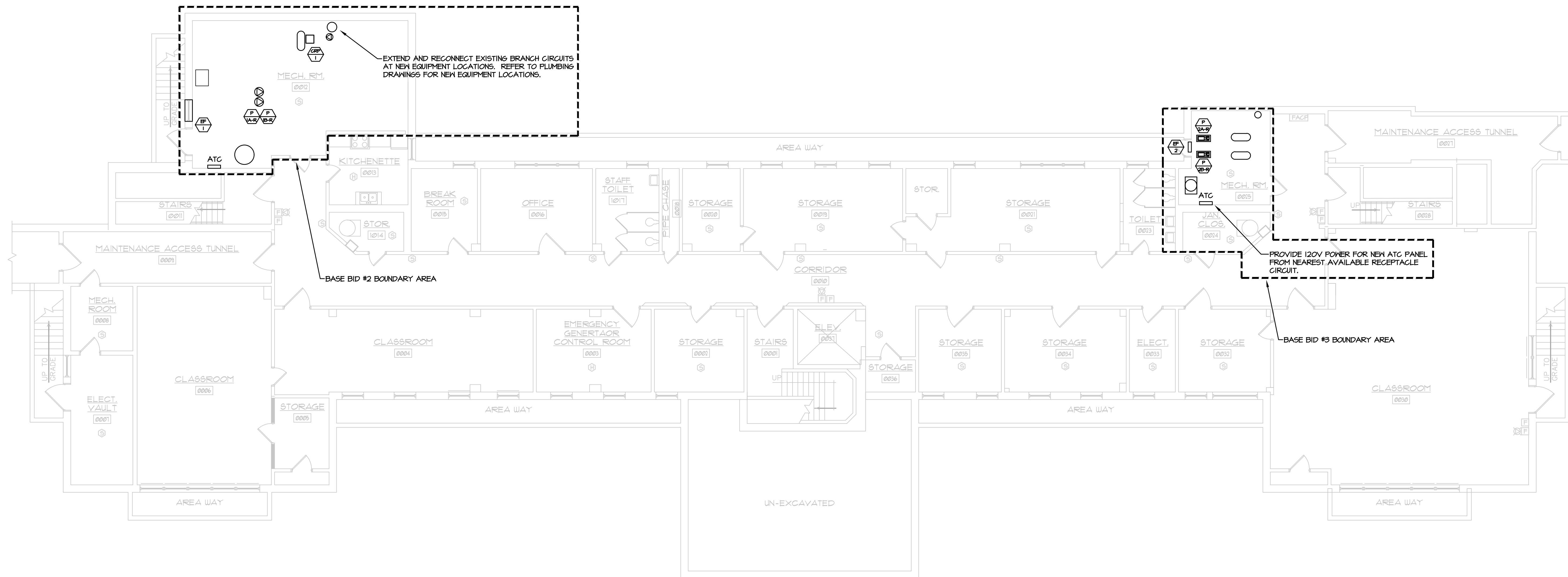
1. ALL FIRE ALARM DEVICES AND CONTROL PANELS ARE EXISTING TO REMAIN.

VERIFY SCALE

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



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



2 BASEMENT PLAN - REED BUILDING - ELECTRICAL NEW WORK
SCALE: 1/8"=1'-0"

ELECTRICAL NEW WORK NOTES-BASE BID 2 AND BASE BID 3:

1. ALL ELECTRICAL NEW WORK ASSOCIATED WITH POWERING OF HVAC AND PLUMBING EQUIPMENT SHOWN IN THE SPECIFIC BOUNDARY AREA SHALL BE PROVIDED UNDER EITHER BASE BID 2 (INCLUDING BASE BID 1 WORK) OR BASE BID 3 (INCLUDING BASE BID 1 WORK).

FIRE ALARM NEW WORK NOTES-BASE BID 2 AND BASE BID 3:

1. ALL NEW FIRE ALARM DEVICES AND CONTROL PANELS ARE EXISTING TO REMAIN.

FOR CONSTRUCTION 11/07/2024

KEY PLAN			
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE			
NO.	DATE	REVISION	APPR.
AS BUILT REVISIONS			
Professional's Signature: _____ Date: 11/07/2024 Consultant's Signature: _____ Date: _____			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA			
PROJECT NO. DGS C-0503-0026 PHASE 1			
NORTH CENTRAL STU - HVAC UPGRADES Danville State Hospital - NCSTU Reed and Green Buildings Danville, Montour County, Pennsylvania			
BASEMENT PLAN - REED BUILDING ELECTRICAL			
DRAWN BY: DG	DATE: 11/07/2024	CHECKED BY: DG	SCALE: AS NOTED
			E-7

FIRE PROTECTION GENERAL NOTES:

- VERIFY LOCATIONS OF EXISTING AND NEW WORK REQUIRED FOR CONSTRUCTION. MODIFY POINTS OF CONNECTION TO EXISTING SYSTEMS AS NECESSARY FOR JOB CONDITIONS. PROVIDE VALVING, PIPING AND TEMPORARY CONNECTIONS TO NEW AND EXISTING SYSTEMS AS NECESSARY FOR WORK CONTINUATION.
- ALL EXISTING SYSTEMS NOT IN THE CONSTRUCTION PHASE SHALL REMAIN IN SERVICE. ALL SYSTEM SHUTDOWNS SHALL BE COORDINATED AND OCCUR ONLY WITH THE APPROVAL OF THE FACILITY.
- THIS CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING MADE NECESSARY BY HIS WORK. REMOVALS SHALL BE TO BEYOND FINISHED SURFACES TO ALLOW PATCHING AND FINISHING TO MATCH ADJACENT SURFACES.
- DEMOLITION ITEMS SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY DISPOSED OF, EXCEPT AS DIRECTED BY THE CLIENT AGENCY'S REPRESENTATIVE.
- COORDINATE ALL WORK WITH THE FUNCTIONS OF ADJACENT AREAS INCLUDING ABOVE AND BELOW THE PROJECT AREA. PROVIDE SLAB CUTTING AND PATCHING AS NECESSARY TO MAKE NEW CONNECTIONS TO EXISTING UNDER FLOOR PIPING.
- CEILINGS THAT NEED TO BE TEMPORARILY REMOVED TO ALLOW FOR THE INSTALLATION OF PIPING OR EQUIPMENT AND ARE NOT SCHEDULED TO BE REMOVED ON THE ARCHITECTURAL DRAWINGS SHALL BE REMOVED AND REPLACED BY THIS CONTRACTOR. COORDINATE THE REMOVAL AND THE REPLACEMENT WITH THE ELECTRICAL CONTRACTOR AND THE PLUMBING CONTRACTOR.
- DO NOT INSTALL ANY FIRE PROTECTION WORK ABOVE ELECTRICAL PANELS OR DATA RACKS.
- DO NOT INSTALL ANY FIRE PROTECTION WORK ABOVE OR THROUGH ELEVATOR EQUIPMENT ROOM, UNLESS SPECIFICALLY SERVING EQUIPMENT ROOM.
- SLEEVE AND SEAL ALL PIPE PENETRATIONS OF WALL AND FLOORS. PACK VOID BETWEEN PIPE AND SLEEVE WITH INSULATION IN NON-RATED WALL AND FLOORS. PACK VOID BETWEEN PIPE AND SLEEVE WITH INSULATION IN FIRE-RATED WALLS AND FLOORS. APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATION, MAINTAINING INTEGRITY AND RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR, BE GROUTED INTO PLACE AND WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED AND SEALED WEATHER TIGHT.
- COVERAGE SHALL MEET OR EXCEED THE REQUIREMENTS OF NFPA-13. FIELD CONDITIONS MAY DICTATE ADDITIONAL HEADS BE PROVIDED. CONTRACTOR SHALL MAKE PROVISIONS FOR SUCH CIRCUMSTANCES. NO ADDITIONAL COSTS WILL BE ALLOWED FOR SUCH SITUATIONS.
- FIRE PROTECTION CONTRACTOR TO INSTALL SPRINKLERS AND TEST SYSTEM PER NFPA-13. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT AND OWNERS INSURANCE. THE FIRE PROTECTION CONTRACTOR SHALL OBTAIN, PROVIDE AND PAY FOR ALL PERMITS REQUIRED TO MAKE THE INSTALLATION.
- SPRINKLER CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE INSTALLATION OF THE FIRE PROTECTION SYSTEM. THE SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO SPRINKLER HEADS, ESCUTCHEONS, PIPE, PIPE FITTINGS, HANGERS, DRAINS, NET TEST CONNECTIONS, SIGNS AND OTHER IDENTIFICATION MARKINGS AS REQUIRED. EXISTING PIPING SHALL BE REPLACED AND/OR MODIFIED AS NECESSARY TO MEET SYSTEM DEMANDS. EXISTING PIPING MAY BE REUSED IF SIZES ARE ADEQUATE FOR THE NEW HYDRAULICALLY CALCULATED SYSTEM.
- THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED. SHOP DRAWINGS 1/8th INCH SCALE MINIMUM, ARE REQUIRED. SHOP DRAWINGS SHALL BE DRAWN ON REFLECTED CEILING PLANS INCLUDING GRIDS, FIXTURES, AIR DIFFUSERS, SPEAKERS, ETC., AND SHALL BE COORDINATED WITH HVAC DUCTS AND ELECTRICAL WIREWAYS. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE ARCHITECT, THE AUTHORITIES HAVING JURISDICTION AND THE OWNERS INSURANCE COMPANY FOR APPROVAL. TWO COPIES OF THE APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION SHALL BE FORWARDED TO THE PROFESSIONAL FOR THEIR RECORDS.
- DURING PREPARATION OF THE SHOP DRAWINGS, CONSULT WITH THE MECHANICAL, ELECTRICAL, GENERAL AND OTHER TRADES REGARDING THE INSTALLATION AND LOCATION OF PIPING AND DEVICES, SO THAT THE WORK MAY BE INSTALLED WITHOUT INTERFERING WITH THE WORK OF OTHERS. ADDITIONALLY, FIELD COORDINATION SHALL BE REQUIRED AS NECESSARY. SHOULD CONFLICTS ARISE THAT CANNOT BE RESOLVED BETWEEN THE VARIOUS CONTRACTORS, THEY ARE TO BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROFESSIONAL IN WRITING.
- THE CONTRACTOR GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE OF ALL DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF CERTIFICATION OF COMPLETION AND ACCEPTANCE OF THE WORK.
- THE FIRE PROTECTION CONTRACTOR SHALL CONFIRM THE TEMPERATURE AND RESPONSE RATINGS OF ANY EXISTING SPRINKLER HEADS TO REMAIN IN ANY SPACES THAT WILL CONTAIN BOTH EXISTING AND NEW SPRINKLERS. ADVISE THE PROFESSIONAL OF ANY DIFFERENCES IN TEMPERATURES AND/OR RESPONSE RATINGS.
- CONTRACTOR TO PROVIDE A MINIMUM OF (6) SPARE SPRINKLERS OF EACH TYPE AND TEMPERATURE RATINGS INSTALLED ON THE PROJECT AND ASSOCIATED WRENCHES) IN A CABINET LOCATED IN AN AREA NOT TO EXCEED 100 SQ. FT.

DESIGN DATA

THE ENTIRE INSTALLATION OF THE FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA, PAMPHLET #13, INTERNATIONAL BUILDING CODES, AND THE CLIENT AGENCY'S INSURANCE CARRIER, AS WELL AS THE LOCAL FIRE DEPARTMENT REGULATIONS.

THE SPRINKLER HEADS INDICATED ON THE PLANS ARE SHOWN FOR BIDDING AND APPROVAL PURPOSES ONLY. THE PIPING SYSTEM MUST BE DESIGNED HYDRAULICALLY BY THE CONTRACTOR TO PROVIDE THE PRESCRIBED DENSITY OVER THE MOST REMOTE SPECIFIED AREA. ANY CHANGES IN LAYOUT REQUIRED BY THE FINAL DESIGN PROCEDURE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. THE FOLLOWINGS ARE DESIGN STANDARDS FOR SPRINKLER WORK. THE CONTRACTOR SHALL VERIFY THESE STANDARDS WITH CLIENT AGENCY'S INSURANCE CARRIER (FM GLOBAL).

MECHANICAL ROOMS, ELECTRICAL ROOMS, STORAGE ROOMS & INDICATED AREAS = ORDINARY HAZARD OCCUPANCY, 2 GPM/50. FT. OVER 1500 SQ. FT., 130 SQ. FT. MAXIMUM HEAD COVERAGE, WET SYSTEM.

ALL AREAS NOT INDICATED ORDINARY HAZARD AREAS = LIGHT HAZARD OCCUPANCY, 1.0 GPM/50. FT. OVER 1500 SQ. FT., 225 SQ. FT. PER HEAD MAXIMUM COVERAGE, WET SYSTEM.

GENERAL

- POINT OF CONNECTION TO EXISTING
- POINT OF DISCONNECTION
- FIXTURE/EQUIPMENT IDENTIFICATION TAG
- PLAN/DETAIL #/DRAWING NUMBER

PIPE SYMBOLS

- PIPE ELBOW UP
- PIPE TEE UP
- PIPE ELBOW DOWN
- PIPE TEE DOWN
- BALL VALVE
- GATE VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- UNION
- FLANGE
- PIPE CAP
- Y-TYPE STRAINER
- PRESSURE GAUGE W/PISTON COCK
- PRESSURE RELIEF VALVE
- HOSE END DRAIN VALVE
- NET PIPE ALARM VALVE
- WATER SUPPLY MAIN
- FIRE WATER MAIN
- SPRINKLER MAIN
- EXISTING SPRINKLER TO REMAIN
- EXISTING SPRINKLER TO BE REMOVED
- NEW INSTITUTIONAL-TYPE PENDENT SPRINKLER
- NEW UPRIGHT SPRINKLER
- NEW CONCEALED PENDENT SPRINKLER
- EXISTING SIDEWALL SPRINKLER
- NEW SIDEWALL SPRINKLER
- NEW DRY SIDEWALL SPRINKLER

NOTE : THIS IS A GENERAL FIRE PROTECTION LEGEND. ALL SYMBOLS MAY NOT APPEAR ON THE PLANS. SEE PLANS FOR ACTUAL SYMBOLS USED.

ABBREVIATIONS

- & AND
- AD ACCESS DOOR
- AFF ABOVE FINISHED FLOOR
- BHP BRAKE HORSEPOWER
- CLG CEILING
- CONT CONTINUATION
- CH COLD WATER
- DN DOWN
- DOM DOMESTIC
- DWG DRAWING
- EC ELECTRICAL CONTRACTOR
- EX EXISTING (ALSO EXIST)
- FD FLOOR DRAIN
- GC GENERAL CONTRACTOR
- GPM GALLONS PER MINUTE
- H & CM HOT AND COLD WATER
- HP HORSEPOWER
- HVAC HEATING, VENTILATING & AIR CONDITIONING
- HW HOT WATER
- HWR HOT WATER RECIRCULATING
- HZ HERTZ
- IN WG INCHES WATER GAUGE
- KW KILOWATT
- PD PRESSURE DROP
- PH PHASE
- PSI (G) POUNDS PER SQUARE INCH (GAUGE)
- RAC RUN ABOVE CEILING
- RBF RUN BELOW FLOOR
- RIG RUN IN CHASE
- RO ROOF OPENING
- TYP TYPICAL
- #V VOLTS
- W WITH

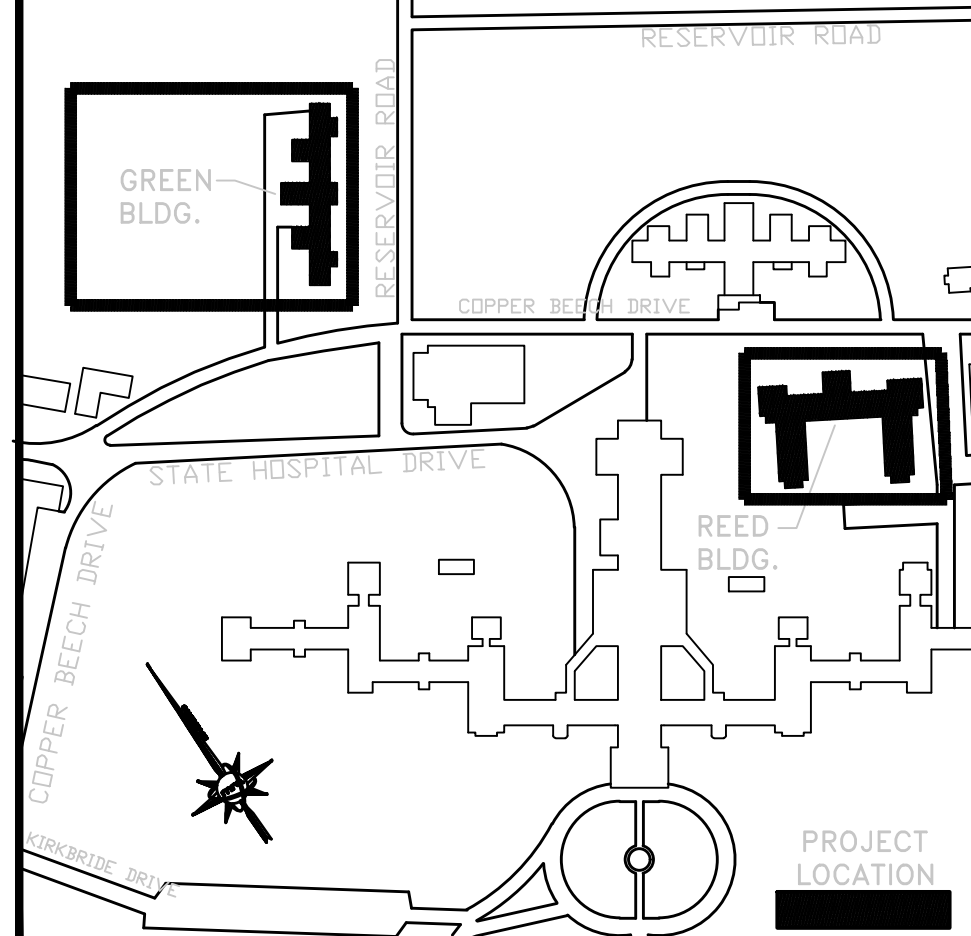
VERIFY SCALE

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



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

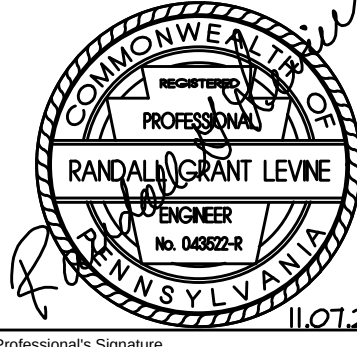
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

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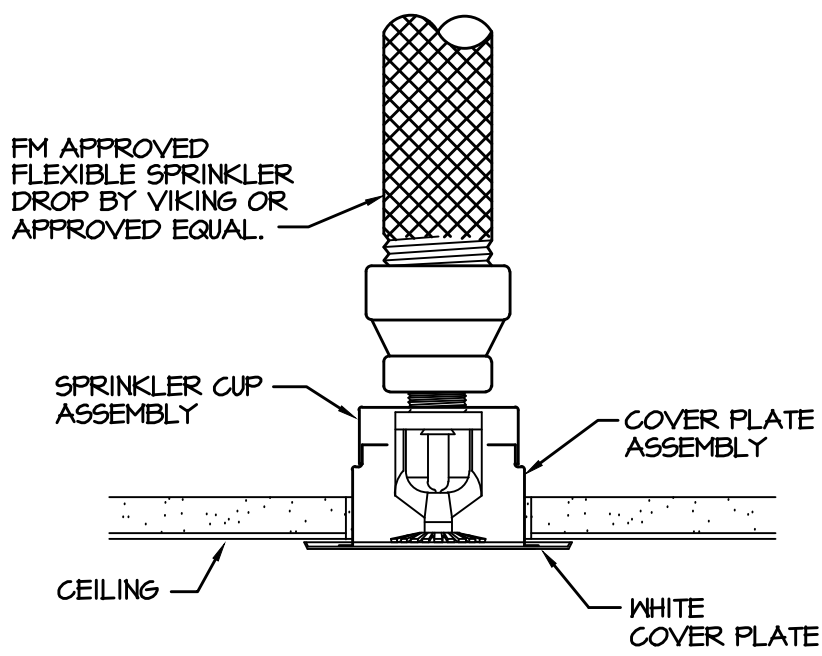
PROJECT NO. DGS C-0503-0026 PHASE 1

NORTH CENTRAL STU - HVAC
UPGRADES
Danville State Hospital - NCSTU Reed and Green Buildings
Danville, Montour County, Pennsylvania

LEGENDS AND NOTES

DRAWN BY:	DATE:	DATE/NO.:
RW	11/07/2024	
CHECKED BY:	SCALE:	
RL	AS NOTED	

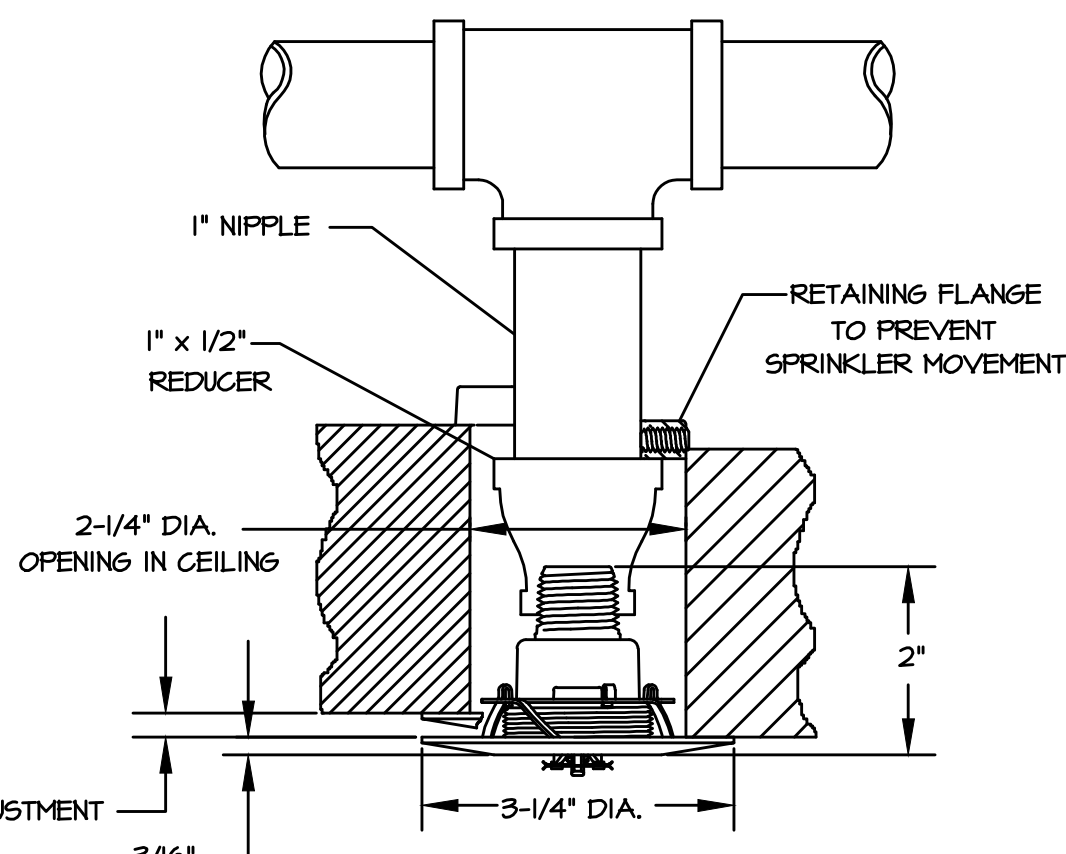
F-1



NOTES:

- NEW PENDENT SPRINKLERS SHALL BE QUICK RESPONSE CONCEALED PENDENT TYPE, 5.6 K-FACTOR, 135° SPRINKLER, WHITE WITH FLUSH COVER PLATE, EXCEPT AS INDICATED.
- ALL SPRINKLER PIPING SHALL BE SUPPORTED FROM STRUCTURE ABOVE.
- FLEX DROP BEND RADIUS LIMIT SHALL BE THE MORE STRINGENT OF FM GLOBAL OR MANUFACTURER.
- FLEX DROP MAXIMUM NUMBER OF BENDS SHALL BE THE MORE STRINGENT OF FM GLOBAL OR MANUFACTURER.
- INSTALLED FLEX DROP SHALL BE CAPABLE OF BEING DRAINED BY GRAVITY WHEN SPRINKLER IS REMOVED.
- INSTALLED FLEX DROP EQUIVALENT LENGTH SHALL BE USED IN 3 CONTRACTOR'S HYDRAULIC CALCULATIONS.

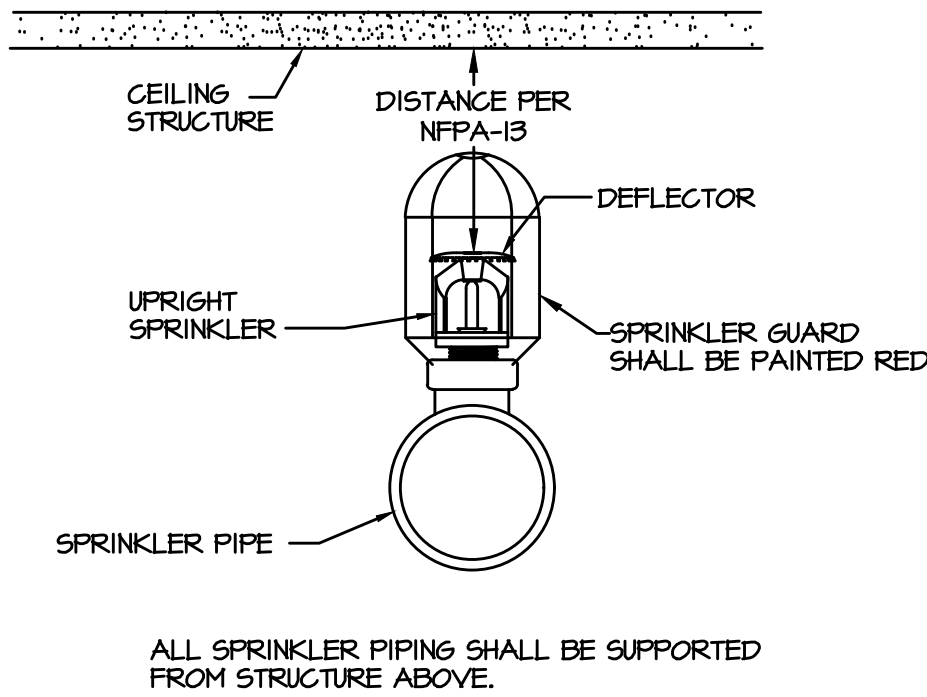
7 CONCEALED PENDENT SPRINKLER
F-1 SCALE: NOT TO SCALE



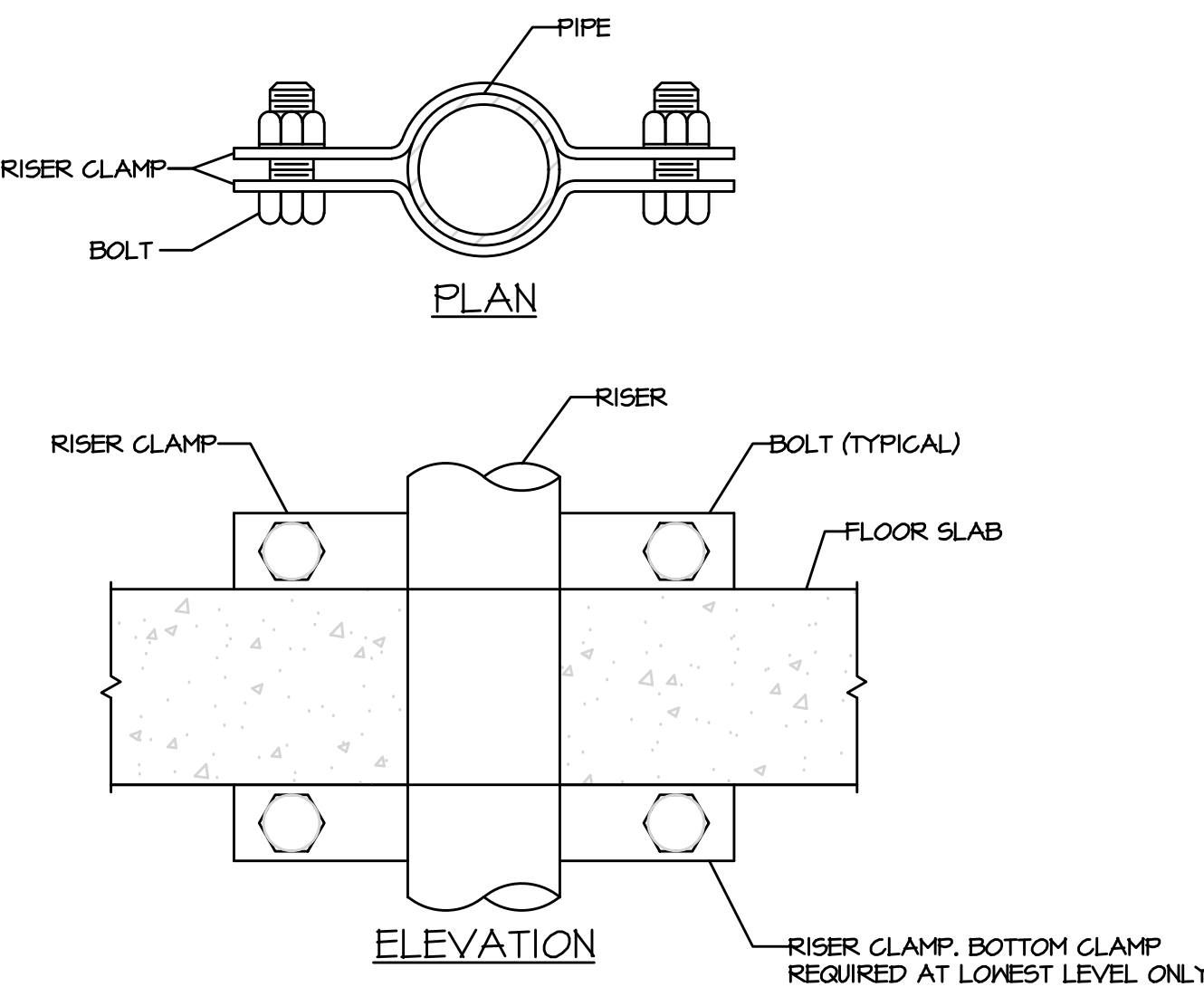
NOTE: UPON SPRINKLER ACTIVATION, THE DEFLECTOR DESCENDS APPROXIMATELY 1/4" BELOW THE SPRINKLER BODY.

INSTITUTIONAL QUICK RESPONSE STANDARD COVERAGE/EXTENDED COVERAGE FLUSH PENDENT SPRINKLER

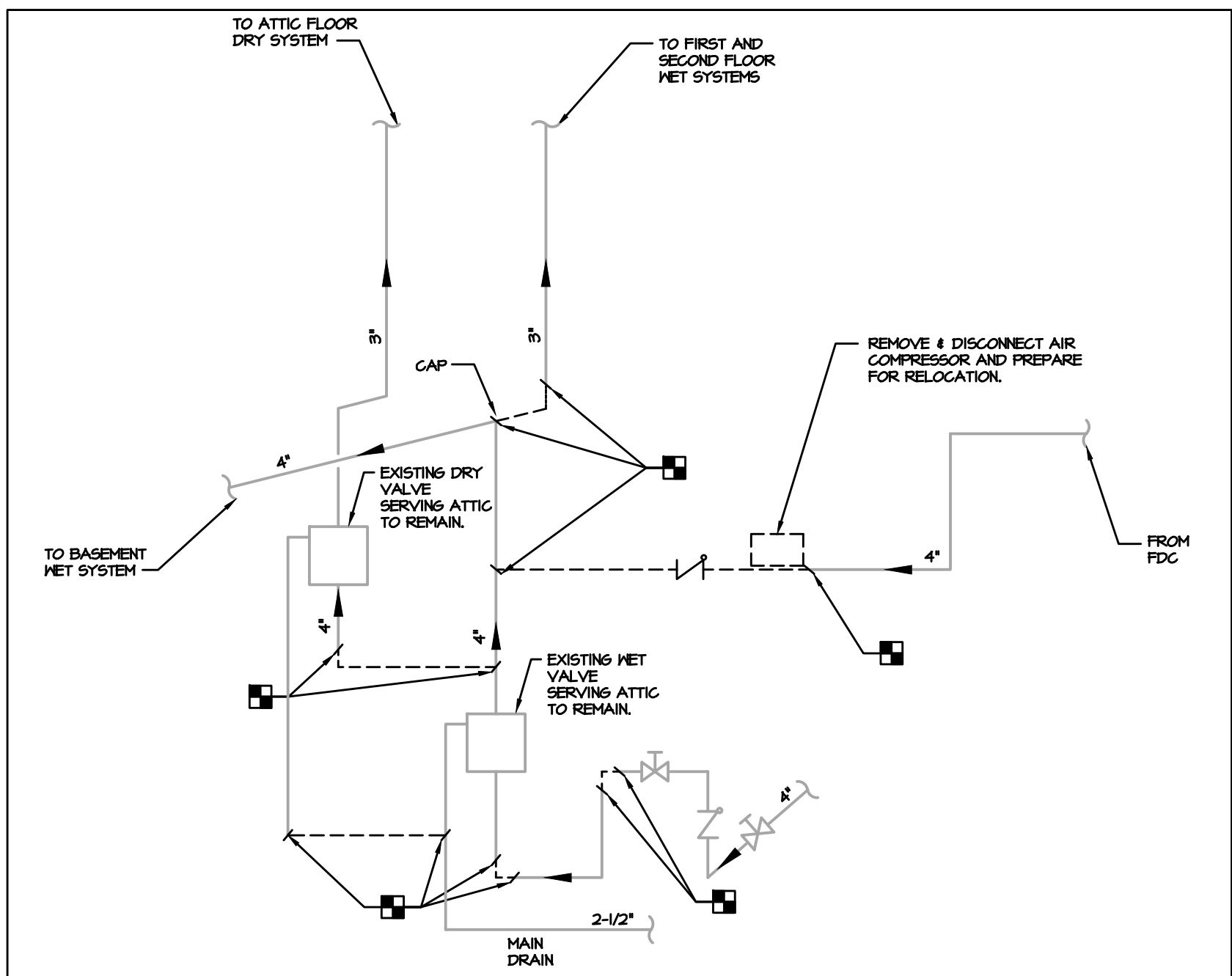
5 INSTITUTIONAL PENDENT SPRINKLER DETAIL
F-1 SCALE: NONE



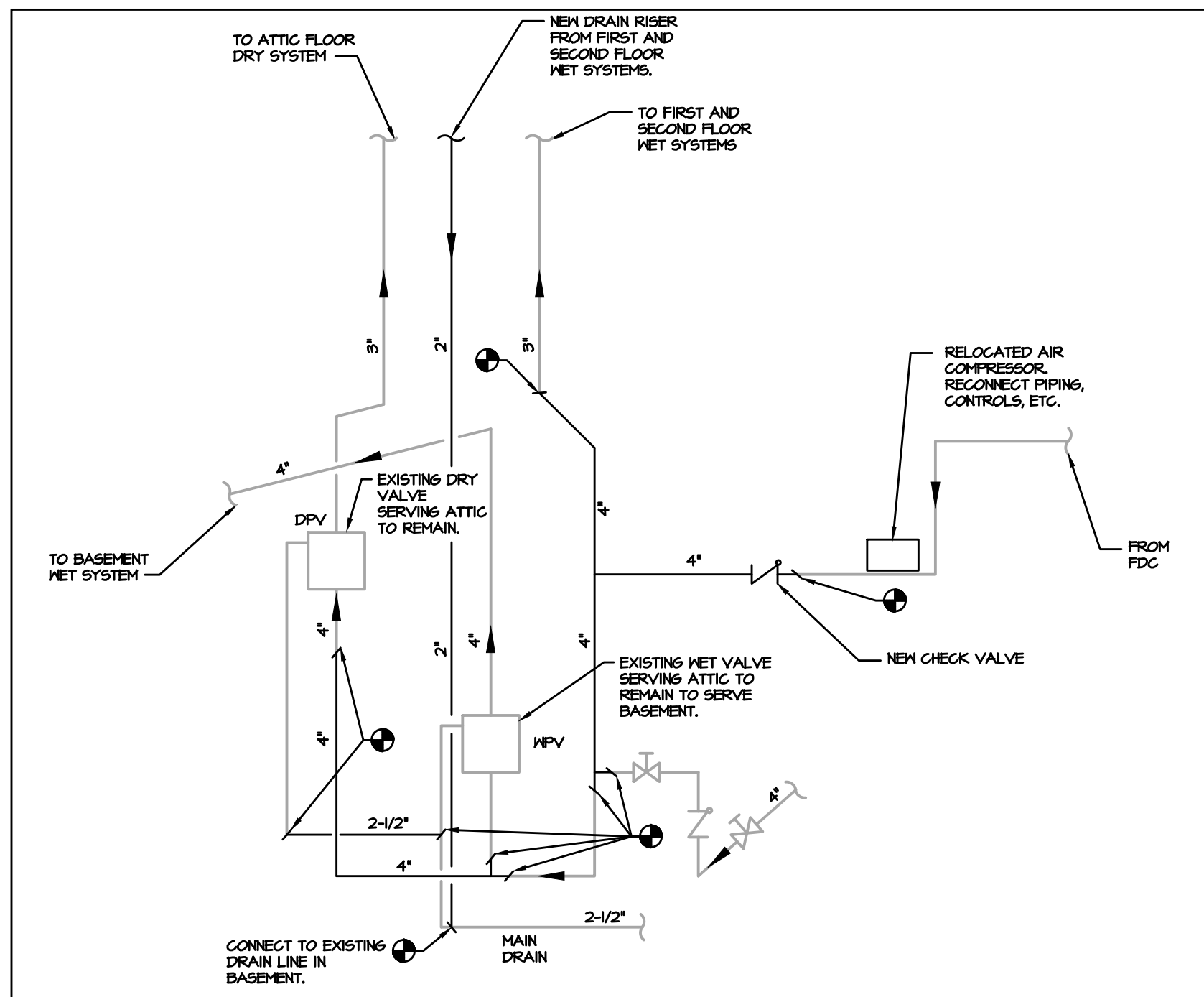
8 UPRIGHT SPRINKLER
F-1 SCALE: NOT TO SCALE



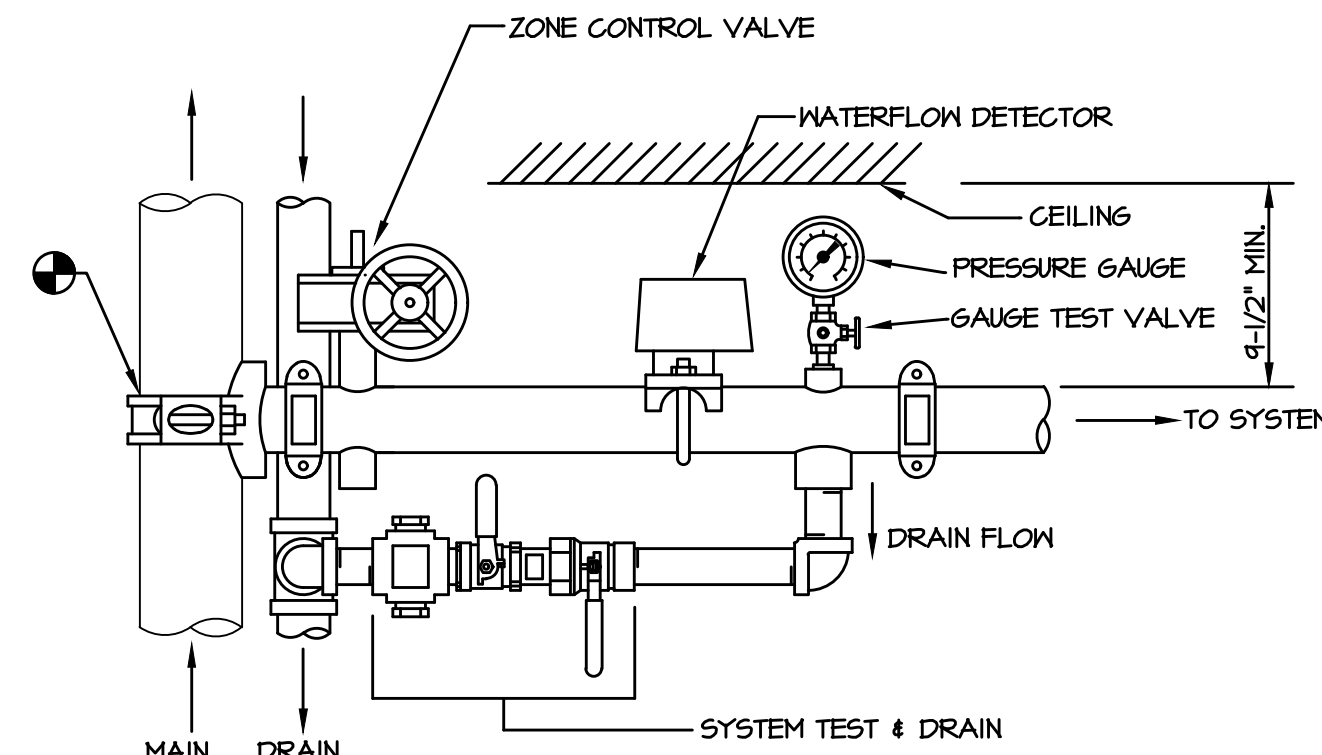
6 PIPE RISER SUPPORT DETAIL
F-1 SCALE: NOT TO SCALE



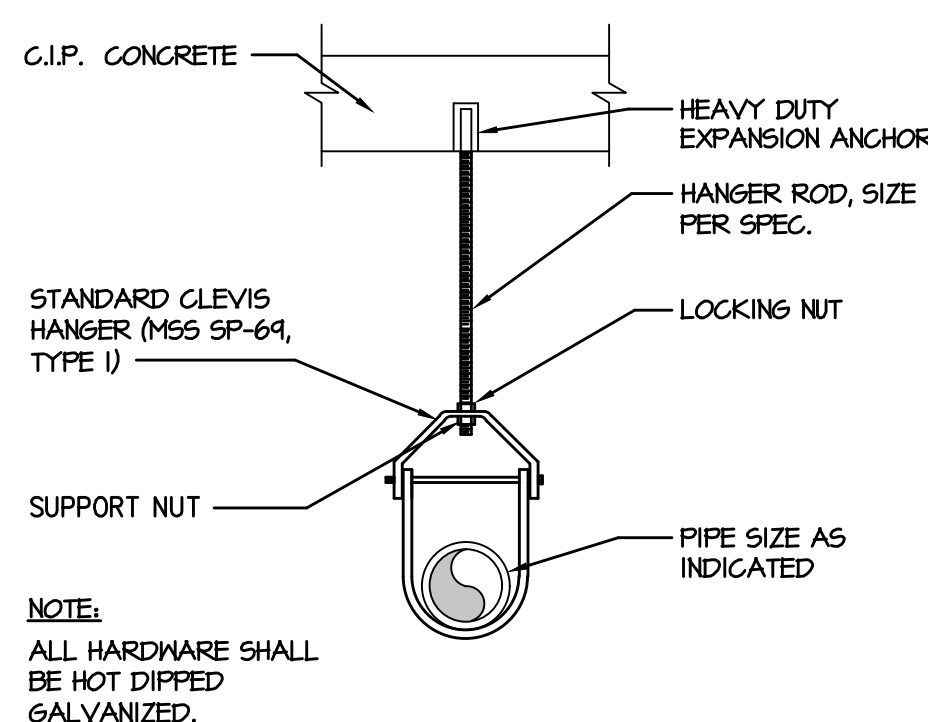
1 EXISTING FIRE RISER DIAGRAM - FIRE PROTECTION DEMOLITION
F-1 SCALE: NOT TO SCALE



2 EXISTING FIRE RISER DIAGRAM - FIRE PROTECTION NEW WORK
F-1 SCALE: NOT TO SCALE

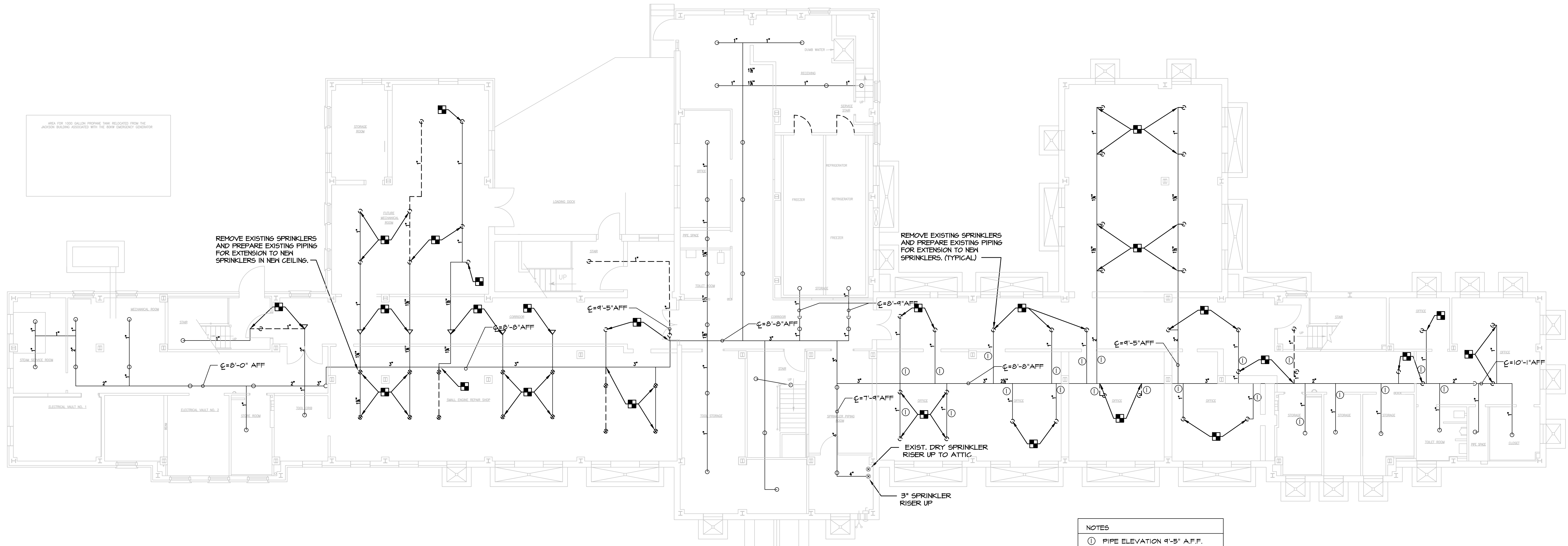


3 FLOOR CONTROL VALVE/ SYSTEM TEST CONNECTION
F-1 SCALE: NOT TO SCALE



4 PIPE HANGER DETAIL
F-1 SCALE: NOT TO SCALE

FOR CONSTRUCTION 11/07/2024



1 PARTIAL BASEMENT PLAN - GREEN BUILDING - DEMOLITION
F-2 SCALE: 1/4"=1'-0"

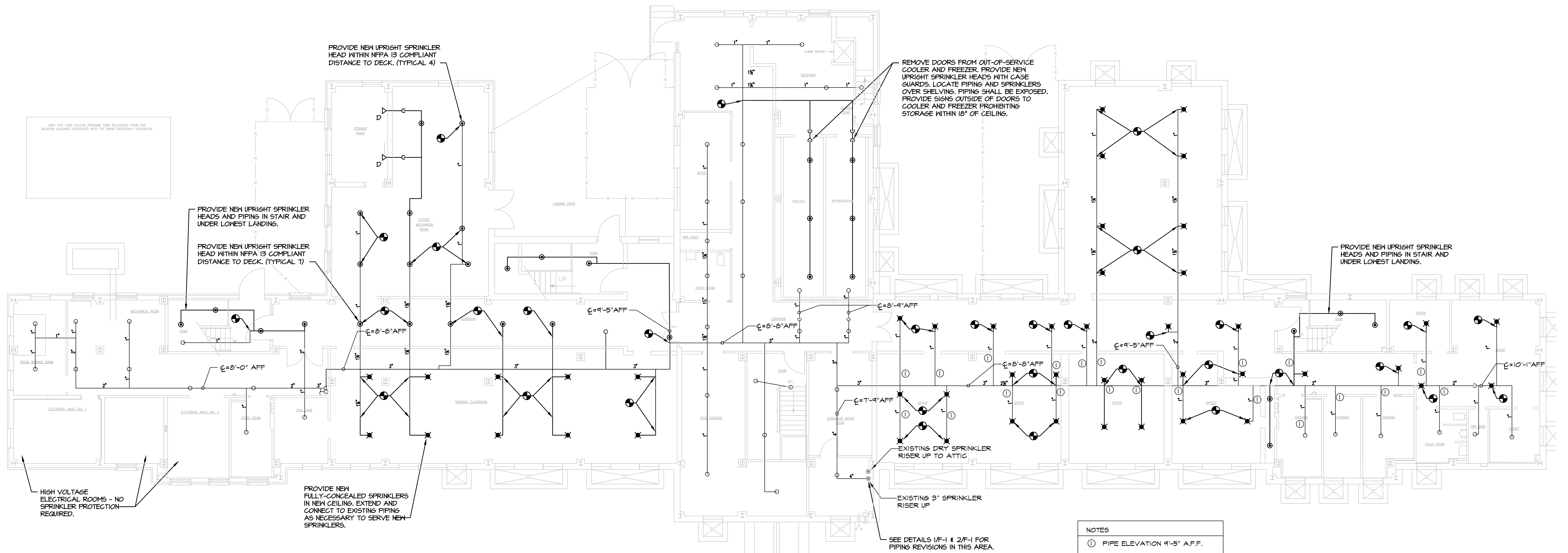
NOTES
① PIPE ELEVATION 4'-5" A.F.F.

VERIFY SCALE

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



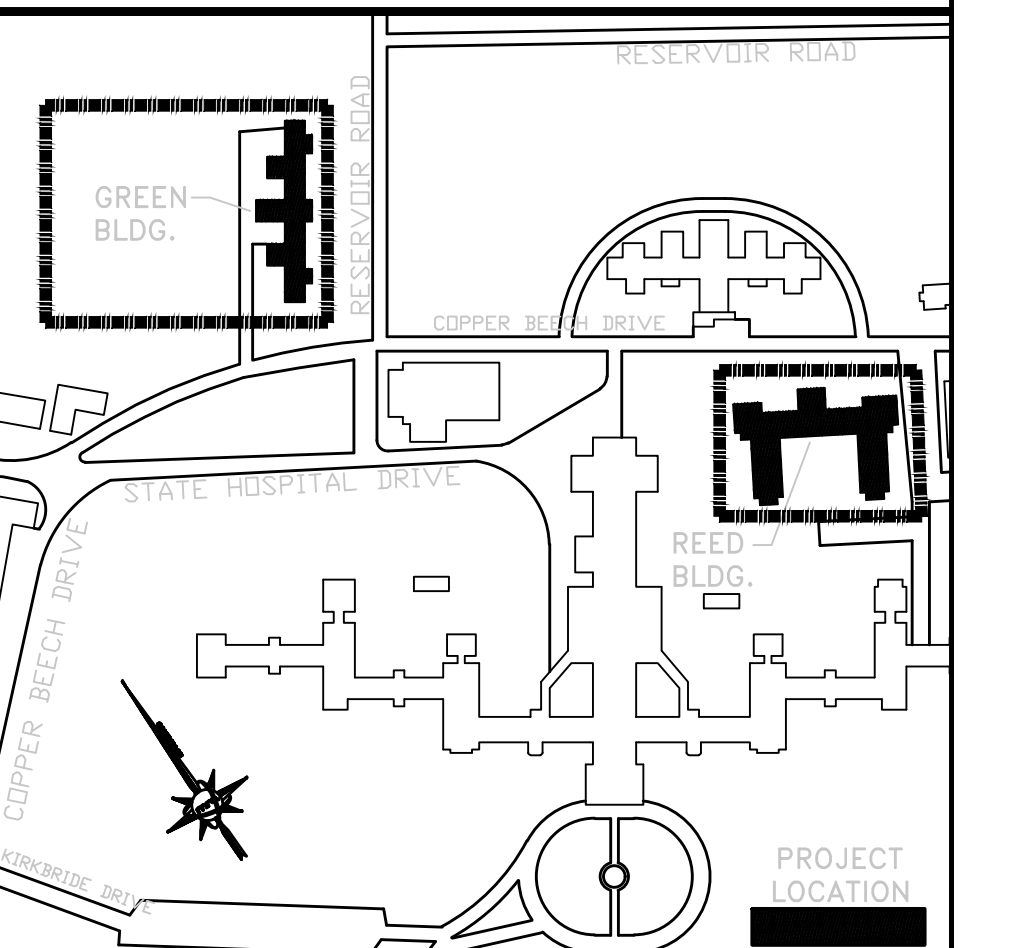
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.



2 PARTIAL BASEMENT PLAN - GREEN BUILDING - NEW WORK
F-2 SCALE: 1/4"=1'-0"

NOTES
① PIPE ELEVATION 4'-5" A.F.F.

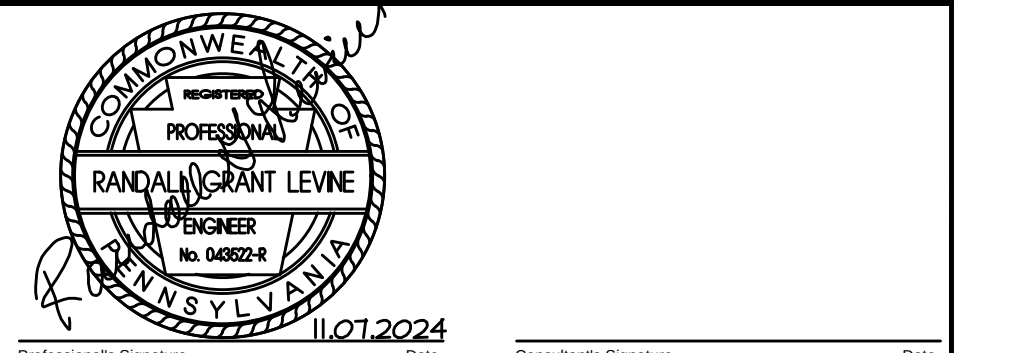
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

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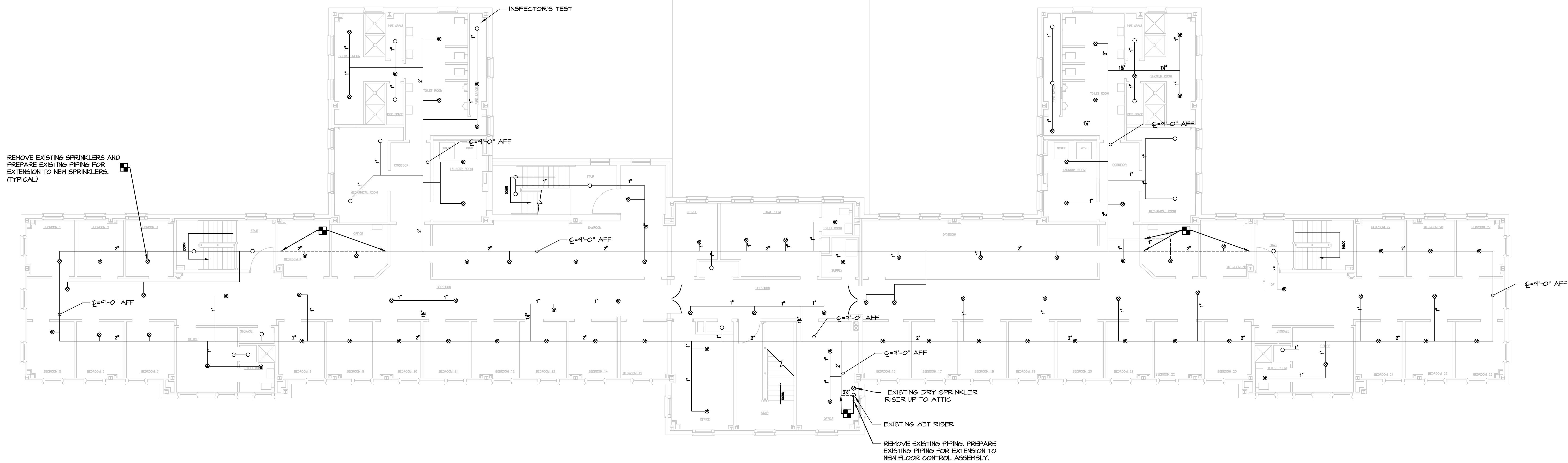
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BASEMENT PLAN - GREEN BUILDING
FIRE PROTECTION

DRAWN BY: RW	DATE: 11/07/2024	DESIGNED BY: RL
CHECKED BY: RL	SCALE: AS NOTED	

F-2

FOR CONSTRUCTION 11/07/2024



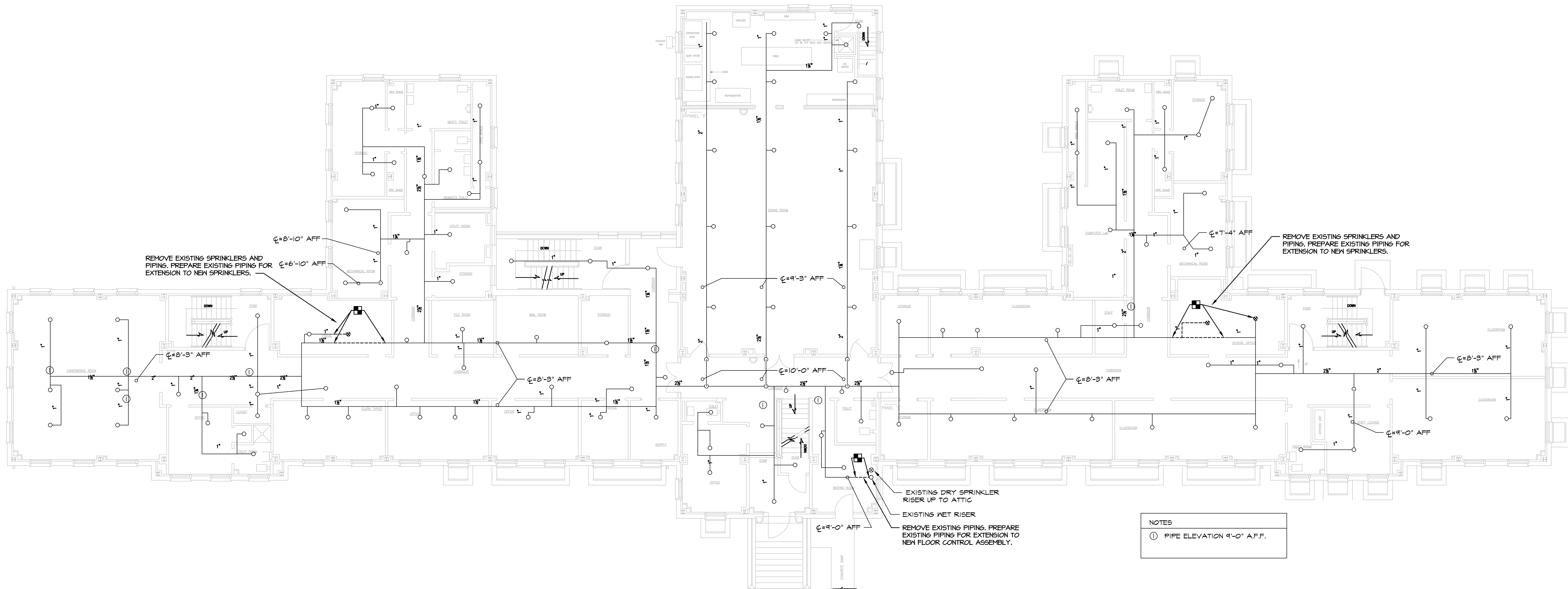
2 SECOND FLOOR PLAN - GREEN BUILDING - FIRE PROTECTION DEMOLITION
F-3 SCALE: 1/8"=1'-0"

VERIFY SCALE

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



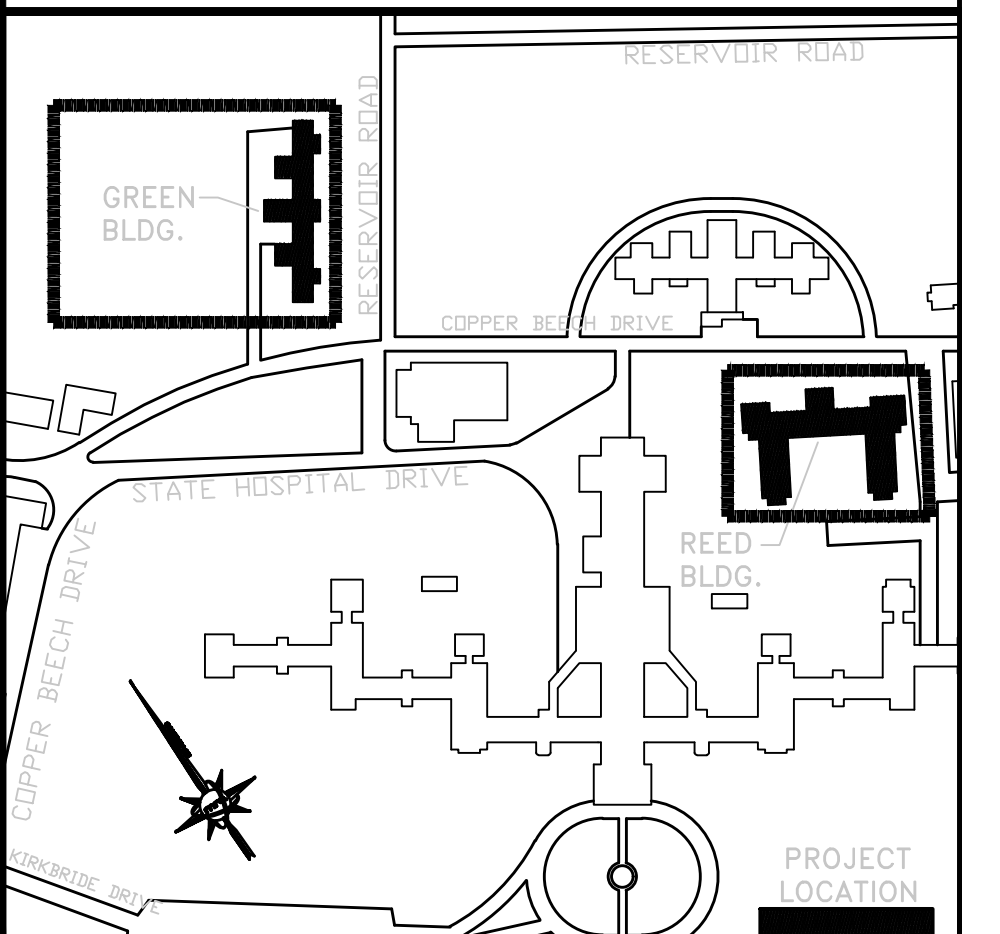
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.



1 FIRST FLOOR PLAN - GREEN BUILDING - FIRE PROTECTION DEMOLITION
F-3 SCALE: 1/8"=1'-0"

NOTES
① PIPE ELEVATION 9'-0" AFF.

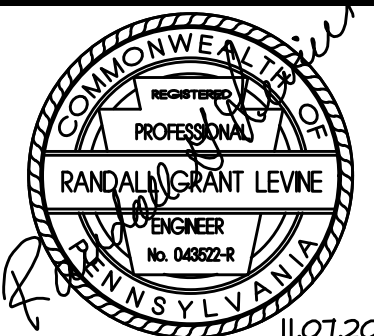
KEY PLAN



ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

NO.	DATE	REVISION	APPR.

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Professional's Signature: _____ Date: 11/07/2024 Consultant's Signature: _____ Date: _____

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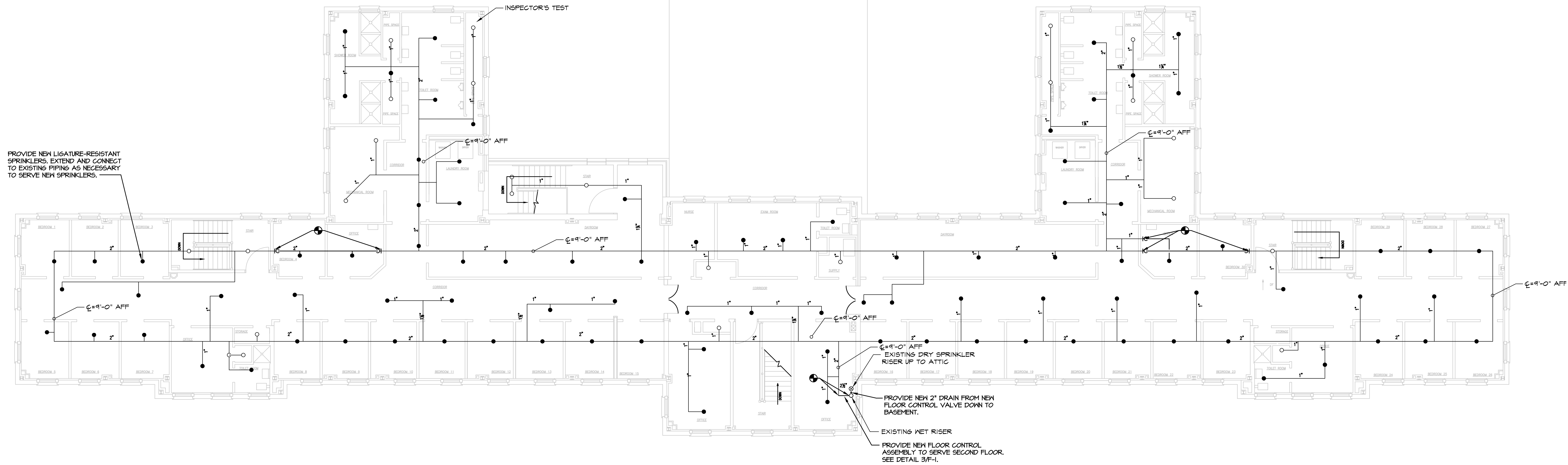
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FIRST AND SECOND FLOOR PLANS - GREEN
BUILDING - FIRE PROTECTION DEMOLITION

DRAWN BY: RW	DATE: 11/07/2024	DESIGNED BY:
CHECKED BY: RL	SCALE: AS NOTED	

F-3

FOR CONSTRUCTION 11/07/2024



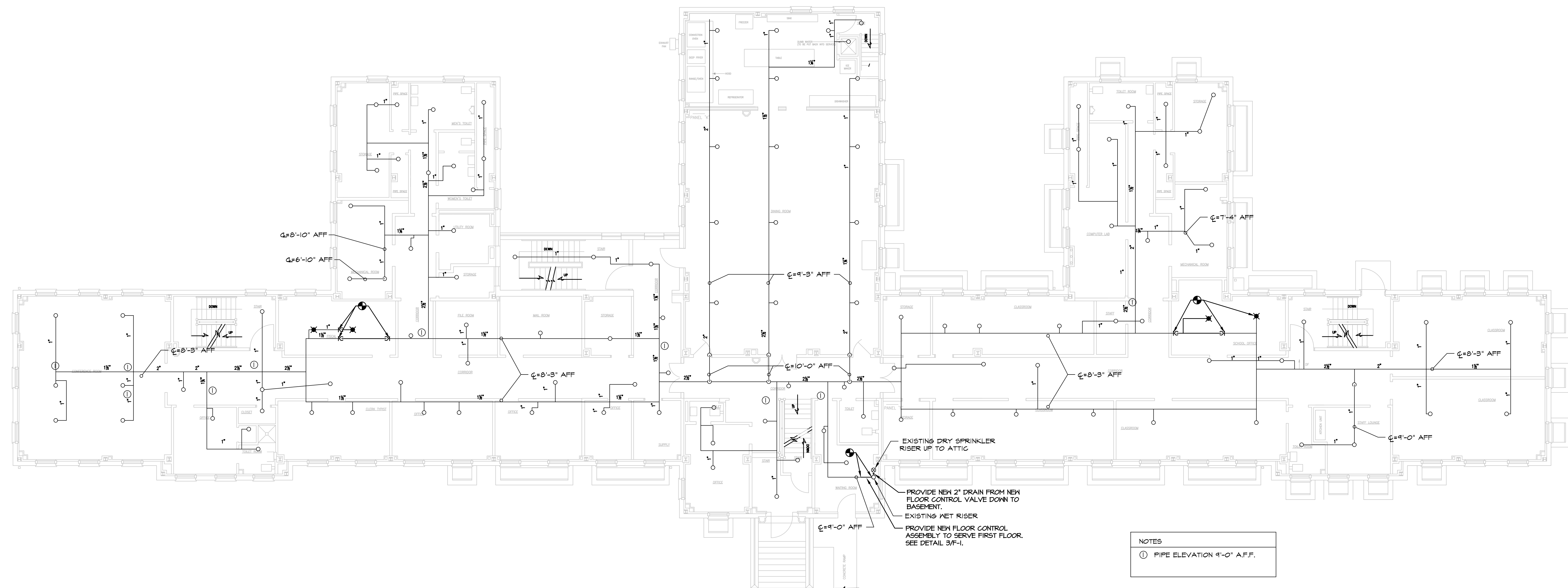
2 SECOND FLOOR PLAN - GREEN BUILDING - FIRE PROTECTION
F-4 SCALE: 1/8"=1'-0"

VERIFY SCALE

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



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



1 FIRST FLOOR PLAN - GREEN BUILDING - FIRE PROTECTION
F-4 SCALE: 1/8"=1'-0"

NOTES
① PIPE ELEVATION 9'-0" A.F.F.

KEY PLAN

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NO.	DATE	REVISION	APPR.

AS BUILT REVISIONS

PROFESSIONAL SEAL
COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL ENGINEER
RANDALL GRANT LEVINE
No. 040822-R
11/07/2024

Professional's Signature: _____ Date: _____ Consultant's Signature: _____ Date: _____

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FIRST AND SECOND FLOOR PLANS - GREEN
BUILDING - FIRE PROTECTION

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RW	11/07/2024	
CHECKED BY:	SCALE:	
RL	AS NOTED	

F-4