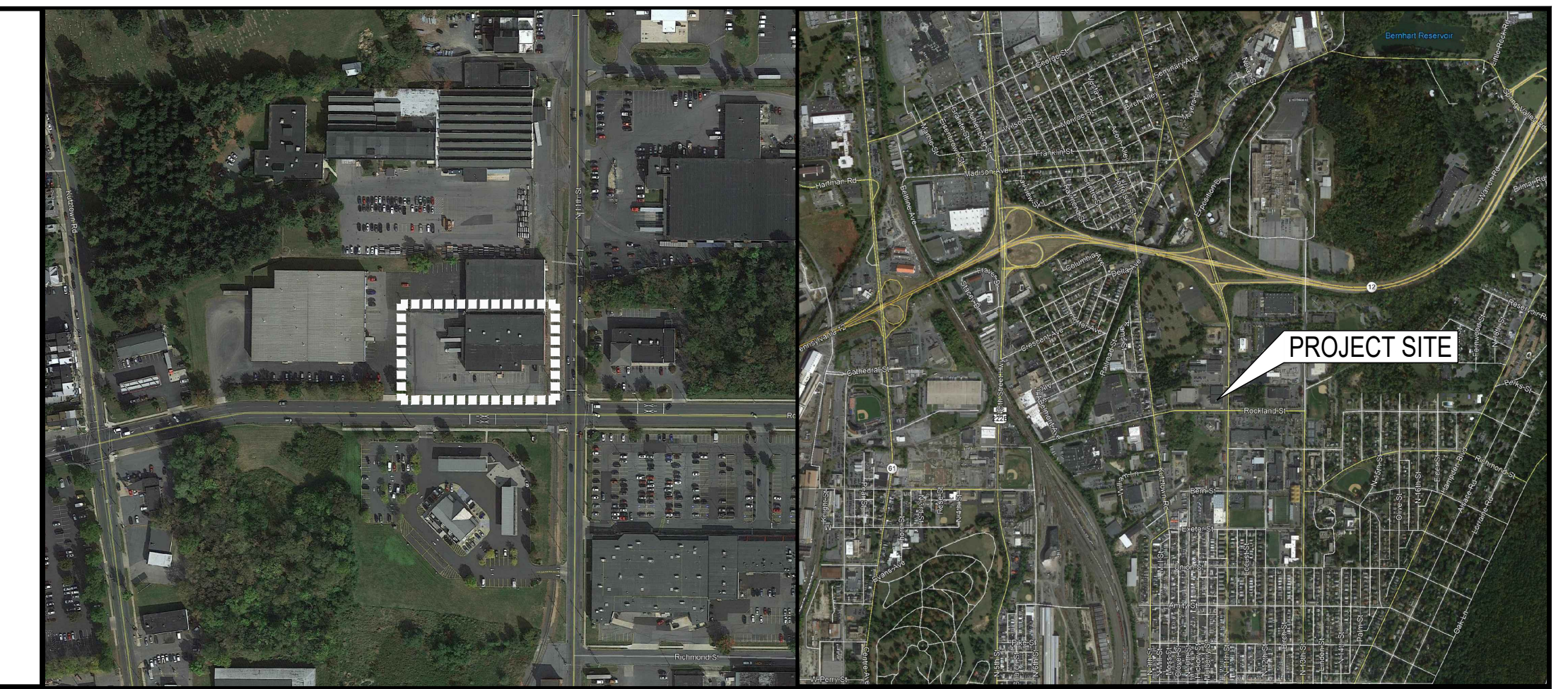


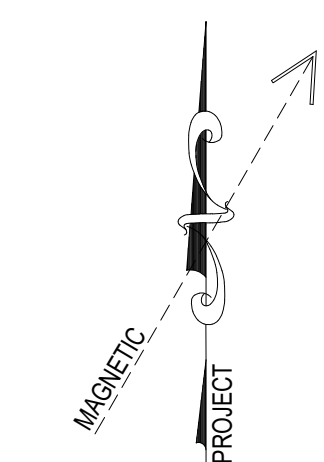
# RENOVATIONS TO THE ROCKLAND ST WAREHOUSE FOR ALBRIGHT COLLEGE

1041 EAST ROCKLAND STREET, READING, PA 19604

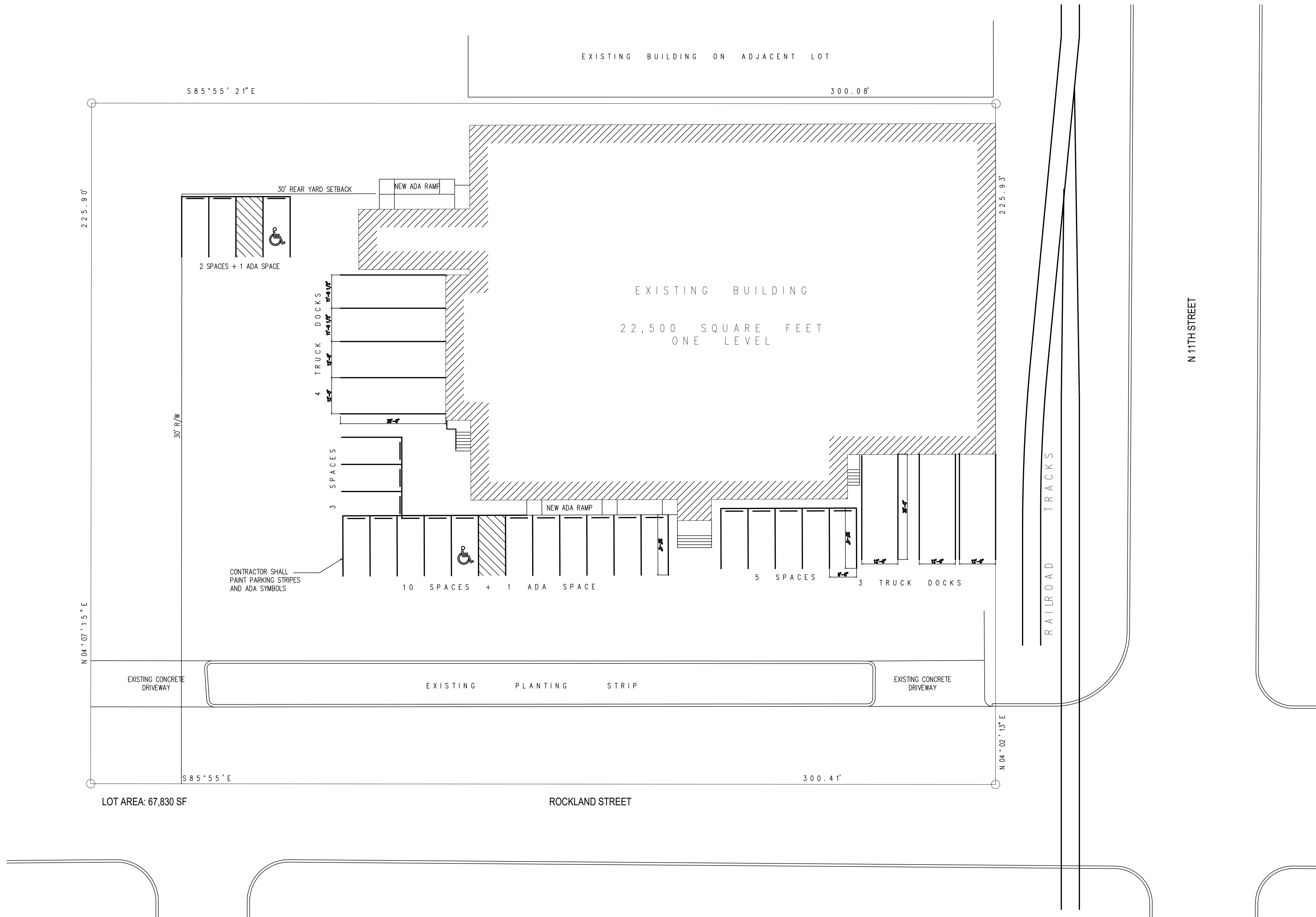


LOCATION MAP

SITE MAP



ABBREVIATIONS	
A	- AIR
AC	- ACOUSTICAL
ALUM	- ALUMINUM
ARA	- AREA OF REFUGE
AT	- ALUMINUM THRESHOLD
CER	- CERAMIC
CG	- CORNER GUARD
CJ	- CONTROL JOINT
CMU	- CONCRETE MASONRY UNIT
CONC	- CONCRETE
COORD	- COORDINATE
CT	- CERAMIC TILE
CW	- COLD WATER
D	- DEPTH
DEMO	- DEMOLITION
DA	- DAMETER
DN	- DOWN
DS	- DOWNSPOUT
EFS	- EXTERIOR INSULATION AND FINISH SYSTEM
ELEV	- ELEVATION
EP	- END PANEL
EQ	- EQUAL
EW	- EACHWAY
EW-C	- ELECTRIC WATER COOLER
EXIST	- EXISTING
EXP JT	- EXPANSION JOINT
FD	- FLOOR DRAIN
FEP	- FINISHED END PANEL
FTP	- FINISHED TOP PANEL
FP	- FILLER PANEL
G	- GAS
GALV	- GALVANIZED
GYP BD	- GYPSUM BOARD
H	- HIGH
HC	- HVAC CONTRACTOR
HORE	- HORIZONTAL
HLB	- HORIZONTAL LOUVER BLINDS
HM	- HOLLOW METAL
HW	- HOT WATER
WB	- INTERACTIVE WHITE BOARD
L	- LONG
M	- MODIFIED
MAX	- MAXIMUM
MFR	- MANUFACTURER
MIN	- MINIMUM
MO	- MASONRY OPENING
MT	- MARBLE THRESHOLD
NC	- NOT IN CONTRACT
OC	- ON CENTER
OH	- OVERHEAD
OPS	- OVERHEAD PROJECTION SCREEN
OHF	- OVERHEAD PROJECTOR
PTD	- PAINTED
QT	- QUARRY TILE
R	- RADIUS
RENF	- REINFORCED
RO	- ROUGH OPENING
RS	- ROLLER SHADE
RWC	- RAIN WATER CONDUCTOR
SF	- SQUARE FEET
SS	- STAINLESS STEEL
TYP	- TYPICAL
UNO	- UNLESS NOTED OTHERWISE
V	- VERTICAL
VCT	- VINYL COMPOSITE TILE
VF	- VERIFY IN FIELD
VTR	- VENT TO ROOF
W	- WIDE
WD	- WOOD
WRB	- WEATHER RESISTANT BARRIER



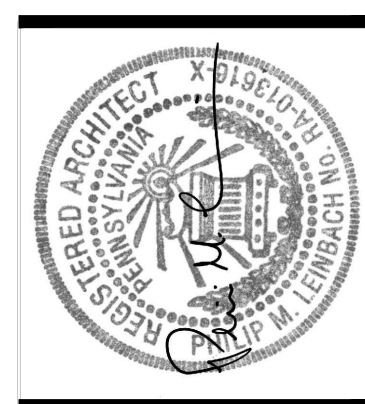
SITE PLAN  
SCALE: 1" = 20'-0"

NOTE:  
NO SITE WORK - PLEASE REFER TO "C" SERIES  
DRAWINGS FOR LIMITED WORK REQUIRED.

## DRAWING INDEX

- GENERAL
  - A-0 COVER SHEET
- ARCHITECTURAL
  - A-1 CODE PLAN AND NOTES
  - A-2 OMITTED
  - A-3 DEMOLITION PLAN
  - A-4 FLOOR PLAN
  - A-5 REFLECTED CEILING PLAN
  - A-6 DOOR AND FINISH SCHEDULES
  - A-7 TYPICAL DETAILS
- STRUCTURAL
  - S-1 ROOF PLAN AND DETAILS
- HVAC
  - H-1 FLOOR PLAN - HVAC DEMOLITION
  - H-2 FLOOR PLANS - HVAC
  - H-3 MECHANICAL SCHEDULES, LEGEND AND DETAILS
- PLUMBING
  - P-1 FLOOR PLAN - PLUMBING DEMOLITION
  - P-2 FLOOR PLAN - PLUMBING
  - P-3 PLUMBING DETAILS AND SCHEDULES
- FIRE PROTECTION
  - FP-1 FLOOR PLAN - FIRE PROTECTION DEMOLITIONS
  - FP-2 FLOOR PLAN - FIRE PROTECTION
- ELECTRICAL
  - E-1 ELECTRICAL DEMO
  - E-2 ELECTRICAL LIGHTING PLAN
  - E-3 ELECTRICAL POWER PLAN
  - E-4 ELECTRICAL ROOF POWER PLAN
  - E-5 ELECTRICAL LEGEND AND NOTES

ISSUED FOR PERMIT  
MAY 10, 2021



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Phone: 610.779.3220 Fax: 610.779.9022 www.aem-arch.com

COVER SHEET  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
1041 EAST ROCKLAND STREET, READING, PA 19604

JOB NO: 2106.00  
DRAWN BY: KDN  
DATE: 05/10/2021

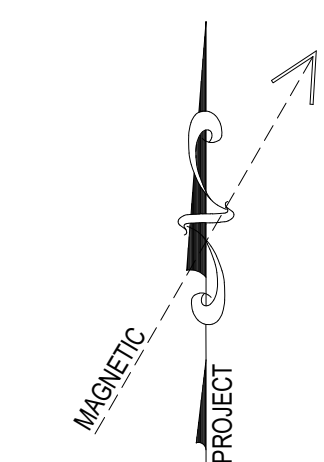
A-0

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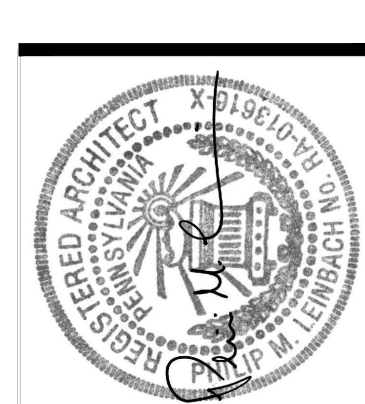
**WZG STRUCTURAL**  
180 West Ridge Pike, Limerick, PA 19468  
Phone: 610.831.0555 www.wzgstructural.com

**STACKHOUSE BENSINGER INC.**  
LANDSCAPE ARCHITECTURE - CIVIL ENGINEERING - LAND PLANNING  
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330 REVERE BOULEVARD, SINKING SPRING, PA 19608  
VOICE: (610) 797-8000 FAX: (610) 796-2983  
EMAIL: sb@stackhouse.com

**CONSOLIDATED ENGINEERS**  
1022 James Drive  
Leesport, PA 19533  
Tel 610-916-1600 Fax 610-916-1610  
Internet www.cemec.com



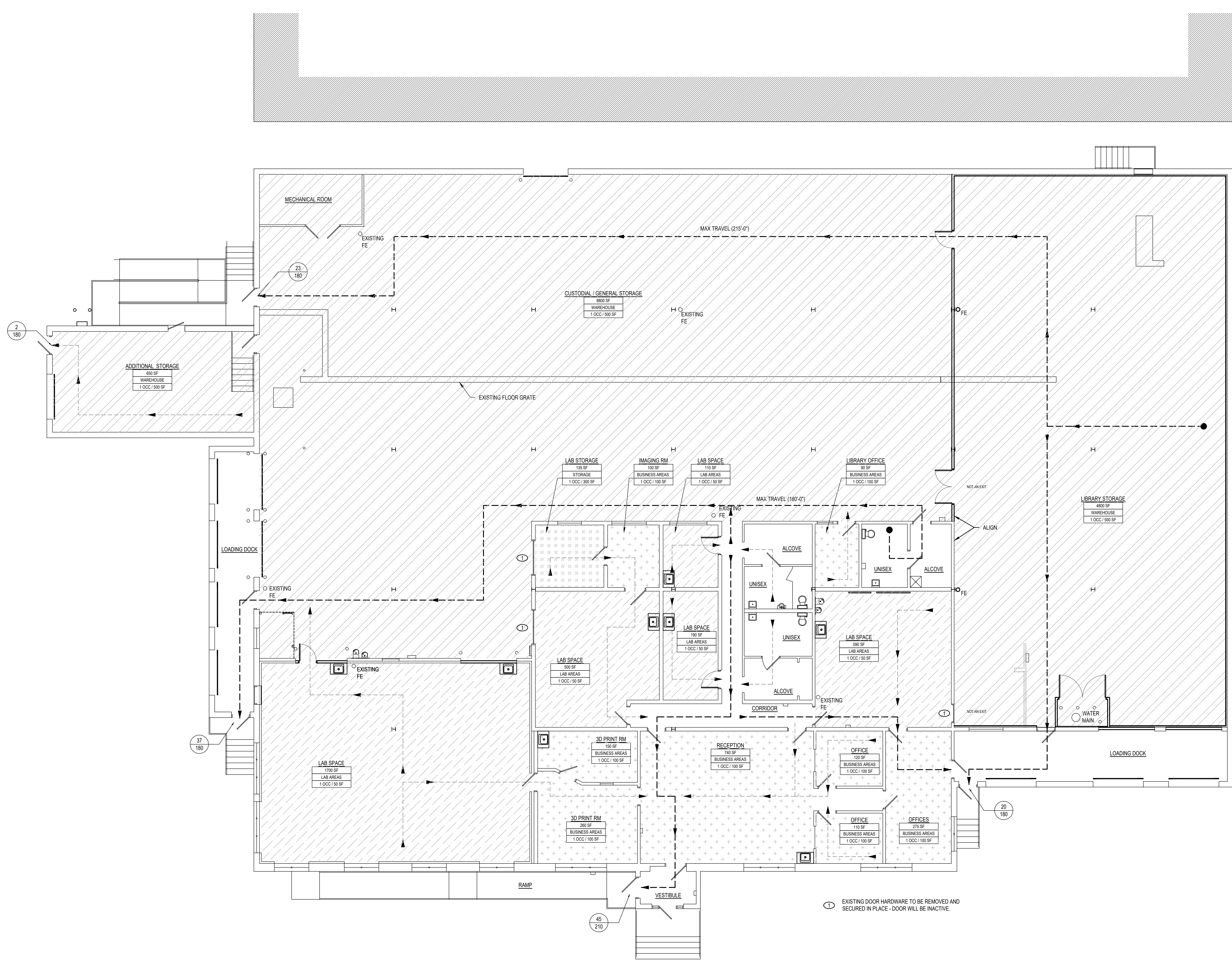
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**CODE PLAN AND NOTES**  
 RENOVATIONS TO THE  
**ROCKLAND ST WAREHOUSE**  
**ALBRIGHT COLLEGE**  
 1041 EAST ROCKLAND STREET, READING, PA 19604

ALL DIMENSIONS AND EXISTING CONDITIONS  
 SHALL BE CHECKED AND VERIFIED  
 BY THE CONTRACTOR AT THE SITE  
 JOB NO.: 21006.00  
 DRAWN BY: KDN  
 DATE: 05/10/2021



**GENERAL NOTES**

- WORST CASE CODE OCCUPANCY CALCULATIONS ARE USED TO DETERMINE ALL EGRESS AND EXITING CAPACITIES.
- DESIGN OCCUPANCY CALCULATIONS ARE BASED ON SEATING CAPACITIES USING FURNITURE COUNTS WHEN APPLICABLE. CLASSROOM OCCUPANCIES ARE BASED ON SEATING CAPACITIES AND HAVE THREE ADDITIONAL OCCUPANTS ADDED FOR A TEACHER AND TWO TEACHING ASSISTANTS.

**APPLICABLE CODES AS OF DATE OF DESIGN CONTRACT**

CODE	DATE
INTERNATIONAL BUILDING CODE	2015
INTERNATIONAL FIRE CODE	2015
INTERNATIONAL MECHANICAL CODE	2015
INTERNATIONAL PLUMBING CODE	2015
INTERNATIONAL ENERGY CONSERVATION CODE	2015
ICC ELECTRICAL CODE	2015
INTERNATIONAL EXISTING BUILDING CODE	2015
ICC ANSI A117.1	2009
LOCAL CODE AMENDMENTS	NONE

**ROCKLAND STREET BUILDING**

IEBC REFERENCE INTERNATIONAL BUILDING CODE (2015)

(SECTION 305) USE GROUP CLASSIFICATION	B, S1 (NO SEPARATION REQUIRED)
(SECTION 602) TYPE OF CONSTRUCTION	I-B
	SPRINKLERED
TOTAL ALLOWABLE BUILDING AREA	92,000 SF

**TOTAL BUILDING AREA CALCULATION**

GENERAL STORAGE	10,500 SF
LIBRARY STORAGE	5,560 SF
SCIENCE RESEARCH INSTITUTE	6,400 SF
<b>TOTAL</b>	<b>22,460 SF</b>

**IEBC 2015 - CHAPTER 504 - EXISTING BUILDING CODE**

**ALTERATION - LEVEL 2**

SECTION 504.1  
LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OF SPACE, THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

SECTION 504.2  
LEVEL 2 ALTERATION SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 7 FOR LEVEL 1 ALTERATIONS AS WELL AS THE PROVISIONS OF CHAPTER 8.

**IBC 2015 - CHAPTER 6 - TYPES OF CONSTRUCTION**

SECTION 602 - CONSTRUCTION CLASSIFICATION  
TABLE 602.1 - FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

CONSTRUCTION TYPE IIB

PRIMARY STRUCTURAL FRAME	0 HOURS
BEARING WALLS	0 HOURS
EXTERIOR	0 HOURS
INTERIOR	0 HOURS
NON-BEARING WALLS AND PARTITIONS	0 HOURS
EXTERIOR	0 HOURS
INTERIOR	0 HOURS
FLOOR CONSTRUCTION AND ASSOCIATED MEMBERS	0 HOURS
ROOF CONSTRUCTION AND ASSOCIATED MEMBERS	0 HOURS

**PLUMBING FIXTURE COUNT - CHAPTER 29**

REFERENCE TABLE 2902.1 - MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

THEORETICAL MAXIMUM PEAK CAPACITY = 111 OCCUPANTS  
(NON-SEPARATED MIXED-USE)

REQUIRED FIXTURES	WOMEN	MEN	UNISEX	TOTAL
<b>WATER CLOSETS</b>				
B - BUSINESS (80 OCC) (1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50)			50 OCC / 25 = 2 31 OCC / 50 = .62	2.62
S - STORAGE (29 OCC) (1 PER 100)			29 OCC / 100 = .29	.29
			2.91	(3) REQUIRED
<b>LAVATORIES</b>				(3) REQUIRED
<b>DRINKING FOUNTAINS</b>				
B - BUSINESS (81 OCC) (1 PER 100)			81 OCC / 100 = .80	.81
S - STORAGE (29 OCC) (1 PER 1000)			29 OCC / 1000 = .03	.03
			.84	(1) REQUIRED
<b>SERVICE SINKS</b>				(1) REQUIRED
<b>FIXTURES PROVIDED</b>				<b>TOTAL</b>
WATER CLOSETS				3
LAVATORIES				3
DRINKING FOUNTAINS				4
SERVICE SINK				1
<b>NOTES:</b>				
1) NO MORE THAN 50% OF PROVIDED OR REQUIRED NUMBER OF WATER CLOSETS FOR MEN ARE URINALS				
2) DESIGN OCCUPANCY WAS USED TO DETERMINE REQUIRED FIXTURE COUNT. CODE OCCUPANCY WAS USED TO DETERMINE EXITING CAPACITY.				

**OCCUPANCY SUMMARY**  
(NON-SEPARATED MIXED-USE)

<b>BUSINESS - GROUP B</b>	
LAB AREAS (3090 SF):	1 OCC / 50 SF (61.8) OCCUPANTS
BUSINESS AREAS (1845 SF):	1 OCC / 100 SF (18.45) OCCUPANTS
STORAGE AREAS (135 SF):	1 OCC / 300 SF (.45) OCCUPANTS (81) OCCUPANTS
<b>STORAGE - GROUP S</b>	
WAREHOUSE (14250 SF):	1 OCC / 500 SF (28.5) OCCUPANTS
<b>TOTAL:</b>	<b>(119) OCCUPANTS</b>
<b>THEORETICAL MAXIMUM PEAK CAPACITY</b>	

**LEGEND**

DESCRIPTION	SYMBOL
DOOR EGRESS TAG	###
ACTUAL EGRESS LOAD	###
EGRESS CAPACITY ALLOWED BY CODE	###
OCCUPANCY ROOM TAG	RM NAME RM NO WAREHOUSE 500 SF/500
FUNCTION OF SPACE	
FLOOR AREA IN SQ. FT. PER OCCUPANT	
EGRESS LINE TYPES	
PATH OF EGRESS	
MAX TRAVEL DISTANCE	
NOTE 1: ( - ) DEPICTS DIRECTION OF TRAVEL	
NOTES:	
1. EGRESS PATHS SHOWN ARE THE LONGEST FROM EACH SPACE	
NOTES:	
ALL NEW FIRE RATED BARRIERS, PARTITIONS, AND HORIZONTAL ASSEMBLIES SHALL BE IDENTIFIED PER SPECIFICATION SECTION SECTIONS 07 84 13, 07 84 43 3.4 IDENTIFICATION AND IBC 2015 SECTION 703.7 MARKING AND IDENTIFICATION	
ALL FIRE RATINGS INDICATED ON THIS DRAWING SHALL BE FIRE BARRIERS.	

**CODE PLAN**  
SCALE: 1/8" = 1'-0"

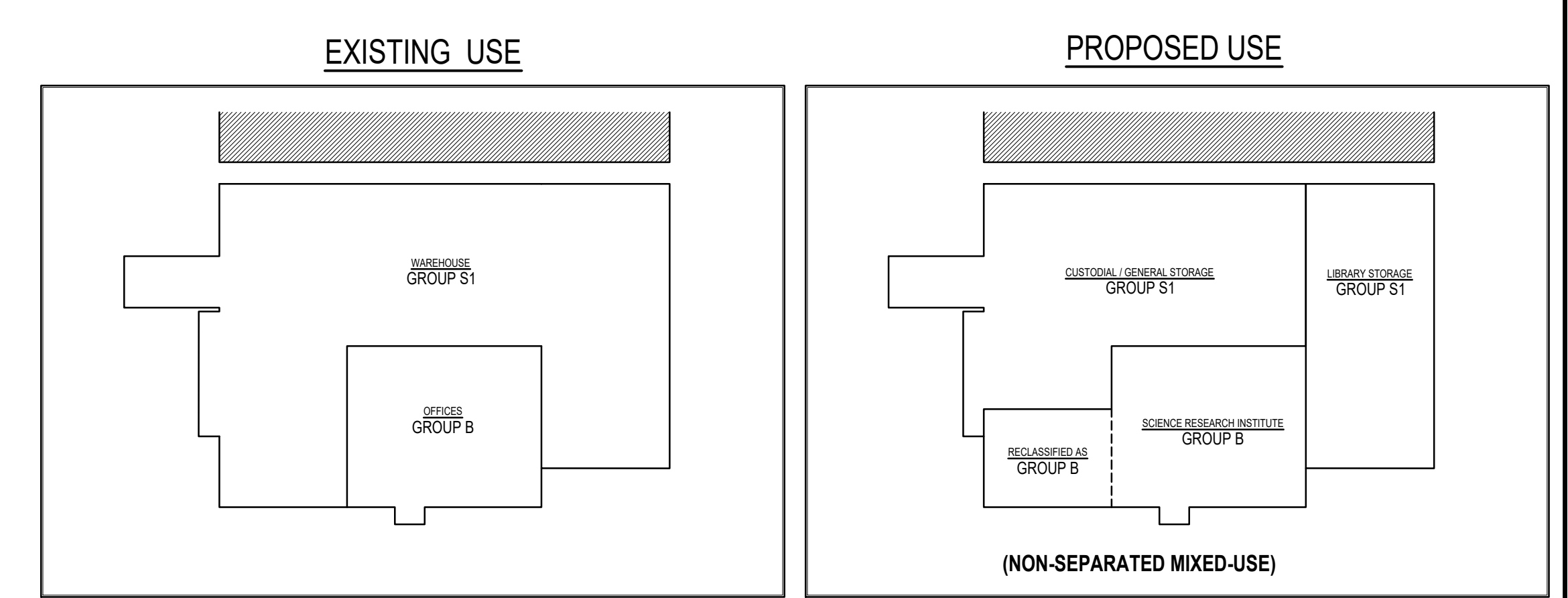




IMAGE 1: CUT STEEL DOWELS FLUSH WITH CONCRETE FLOOR. GRIND SMOOTH AS REQUIRED. TYP THROUGHOUT BUILDING

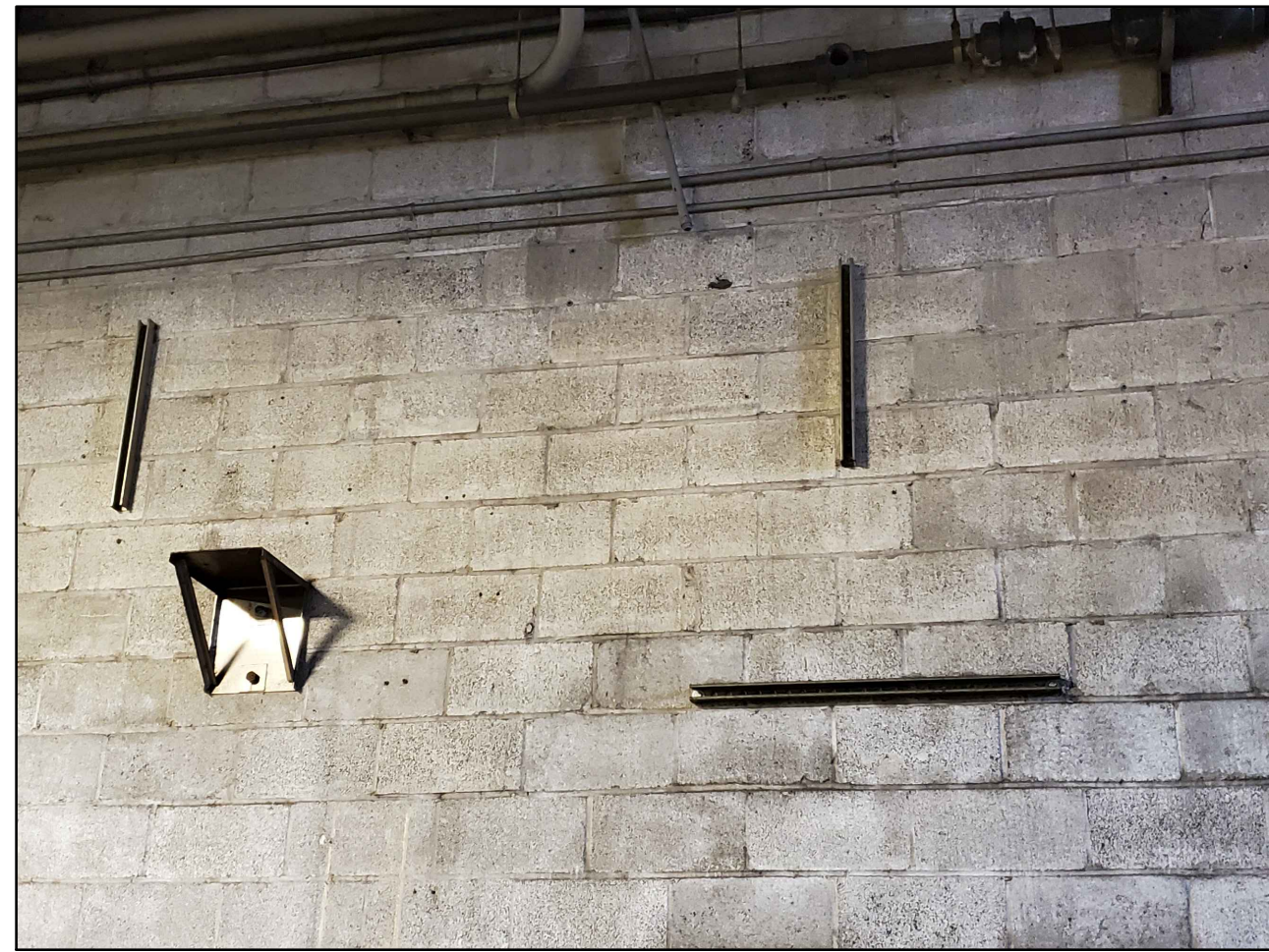
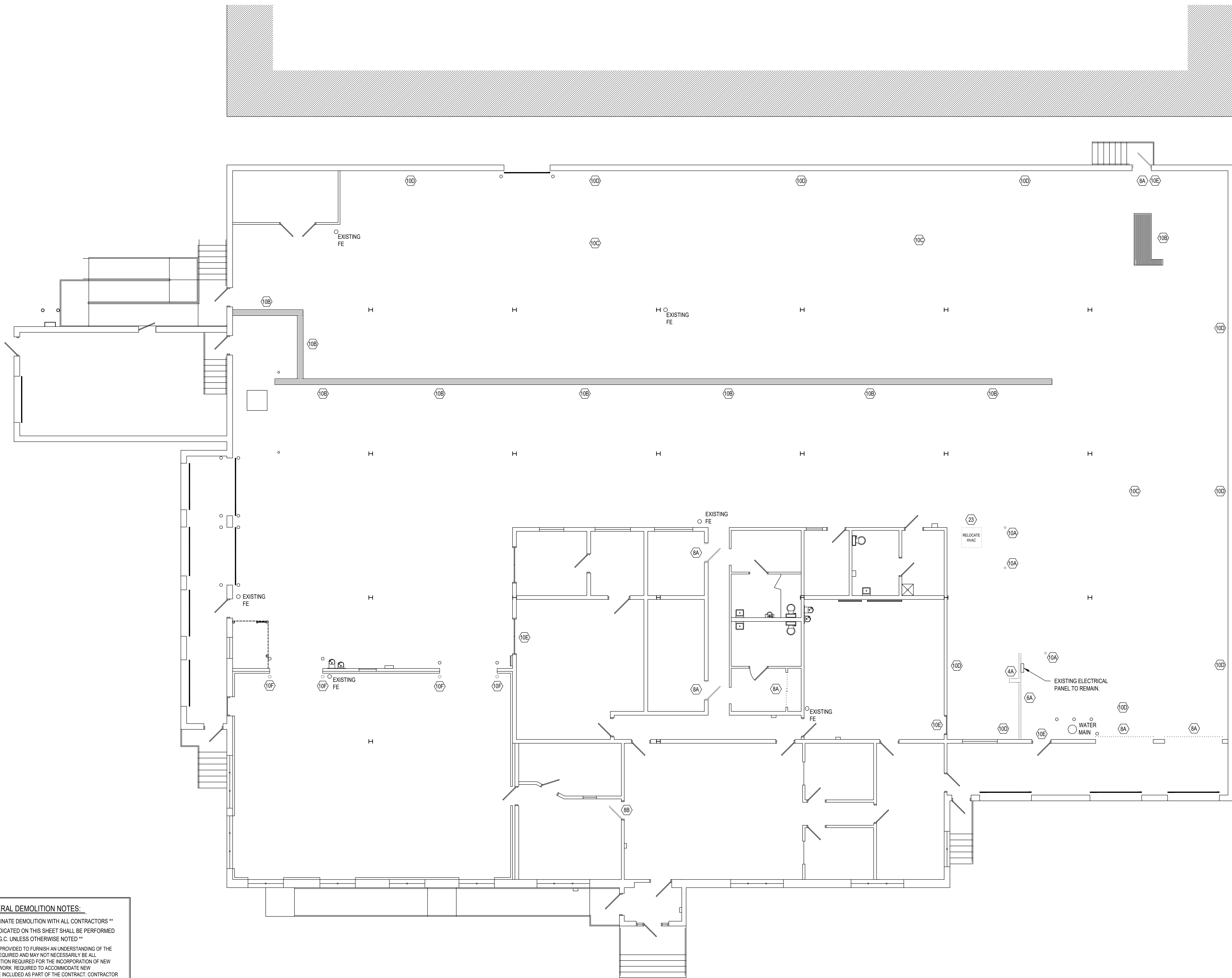
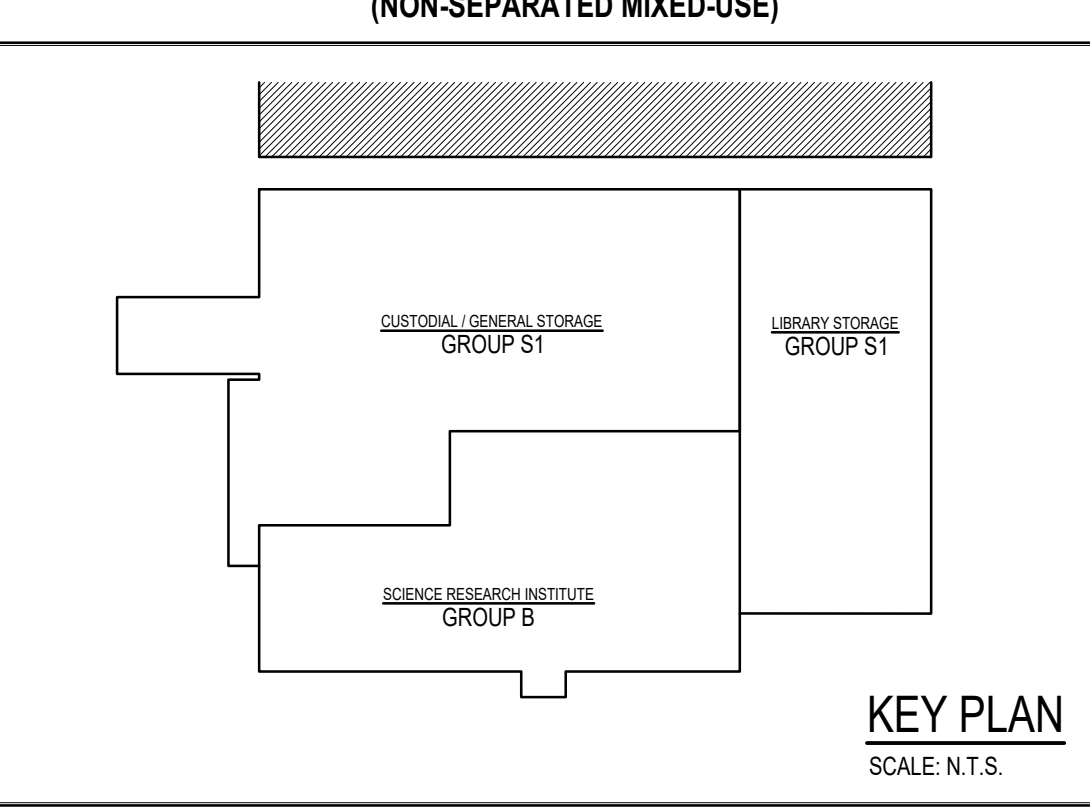


IMAGE 2: REMOVE ALL UNUSED STEEL BRACKETS, UNISTRUT, AND CONDUITS FROM WALL, TYP.



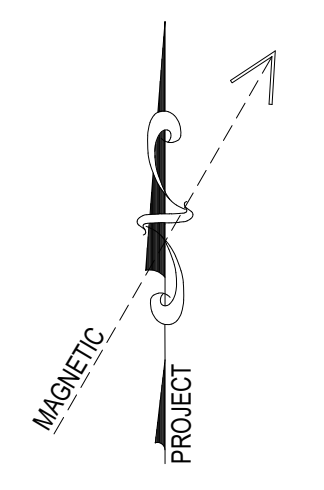
FIRST FLOOR - DEMOLITION PLAN  
SCALE: 1/8" = 1'-0"



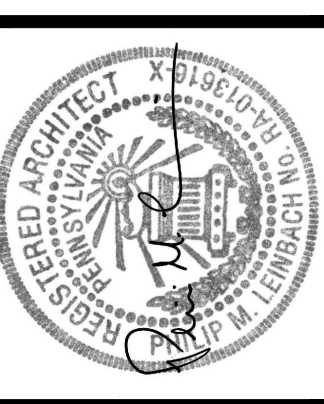
- DEMOLITION NOTES:**  
\*\* G.C. SHALL COORDINATE DEMOLITION WITH ALL CONTRACTORS \*\*  
\*\* ALL DEMOLITION INDICATED ON THIS SHEET SHALL BE PERFORMED BY THE G.C. UNLESS OTHERWISE NOTED \*\*
- (4A) REMOVE EXISTING CMU WALL CONSTRUCTION, ELECTRICAL PANELS TO REMAIN IN PLACE.
  - (6A) REMOVE EXISTING WOOD FRAMED WALL ABOVE AND ALL ACCESSORIES
  - (8A) REMOVE EXISTING DOOR(S), FRAME(S), AND HARDWARE
  - (8B) REMOVE EXISTING DOOR AND HARDWARE, -LEAVE FRAME IN PLACE
  - (10A) REMOVE EXISTING SURFACE MOUNT BOLLARD
  - (10B) REMOVE EXISTING GRATING AND ALL ACCESSORIES
  - (10C) CUT STEEL DOWELS FLUSH WITH CONCRETE FLOOR, GRIND SMOOTH AS REQUIRED. TYP THROUGHOUT BUILDING
  - (10D) REMOVE ALL UNUSED STEEL BRACKETS, UNISTRUT, CONDUITS, .ETC FROM WALL
  - (10E) REMOVE TACTILE EXIT SIGN - SALVAGE
  - (10F) REMOVE EXISTING BOLLARD, CUT AND GRIND SMOOTH, PATCH AS REQUIRED
  - (22) P.C. DEMO. (REFER TO MEP DEMO. DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFO.)
  - (23) H.C. DEMO. (REFER TO MEP DEMO. DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFO.)
  - (26) E.C. DEMO. (REFER TO MEP DEMO. DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFO.)

- GENERAL DEMOLITION NOTES:**  
\*\* G.C. SHALL COORDINATE DEMOLITION WITH ALL CONTRACTORS \*\*  
\*\* ALL DEMOLITION INDICATED ON THIS SHEET SHALL BE PERFORMED BY THE G.C. UNLESS OTHERWISE NOTED \*\*
- A) DEMOLITION NOTED IS PROVIDED TO FURNISH AN UNDERSTANDING OF THE SCOPE OF DEMOLITION REQUIRED AND MAY NOT NECESSARILY BE ALL INCLUSIVE OF ALL DEMOLITION REQUIRED FOR THE INCORPORATION OF NEW WORK. ALL DEMOLITION WORK REQUIRED TO ACCOMMODATE NEW CONSTRUCTION SHALL BE INCLUDED AS PART OF THE CONTRACT. CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS TO UNDERSTAND THE SCOPE OF DEMOLITION REQUIRED FOR NEW WORK. ALL DEMOLITION SHALL BE COORDINATED WITH THE OTHER CONSTRUCTION DOCUMENTS. REFER TO MEP DRAWINGS FOR ADDITIONAL MEP DEMOLITION REQUIREMENTS.
- B) ALL REMAINING SURFACES TO BE EXPOSED AFTER DEMOLITION SHALL BE PATCHED, REPAIRED AND REFINISHED TO MATCH EXISTING ADJACENT FINISH CONDITIONS. ALL REMAINING SURFACES TO BE CONCEALED BY NEW WORK SHALL BE PREPARED AS REQUIRED FOR THE NEW WORK. REFER TO SPECIFICATIONS AND PRODUCT REQUIREMENTS FOR SPECIFIC CUTTING AND PATCHING METHODS REQUIRED FOR DEMOLITION WORK.
- C) WHERE EQUIPMENT OR SYSTEMS ARE INDICATED FOR DEMOLITION, ALL PARTS AND ASSEMBLIES OF THE EQUIPMENT OR SYSTEMS SHALL BE REMOVED INCLUDING BLOCKING, SUPPORTS, HANGERS, ETC. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION FOR MEP DEMOLITION.
- D) CONTRACTORS SHALL REVIEW ALL EXISTING CONDITIONS TO UNDERSTAND THE SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS.
- E) ALL DEMOLITION SHALL BE COORDINATED WITH PROJECT PHASING SCHEDULE AND THE PROGRESS OF THE WORK TO ENSURE ALL EXISTING SYSTEMS REMAIN OPERABLE DURING WORK.

- GENERAL DEMOLITION NOTES:**
1. CLEAN AND SCARIFY ALL EXISTING CONCRETE FLOORS SCHEDULED TO RECEIVE NEW FLOORS. ALL FLOORS SHALL BE LEVELLED WITH HYDRAULIC CEMENT UNDERLAYMENT PRIOR TO INSTALLING NEW FLOORING.
  2. FLOORING INDICATED TO REMAIN AS SEALED CONCRETE SHALL BE CLEANED, PATCHED, AND REPAIRED PRIOR TO APPLICATION OF SEALER.



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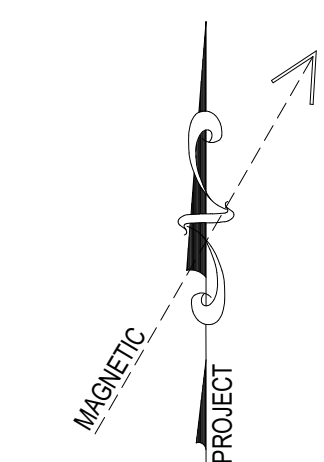


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DEMOLITION PLAN  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
1041 EAST ROCKLAND STREET, READING, PA, 19604

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

JOB NO.: 21006.00  
DRAWN BY: KDN  
DATE: 05/10/2021



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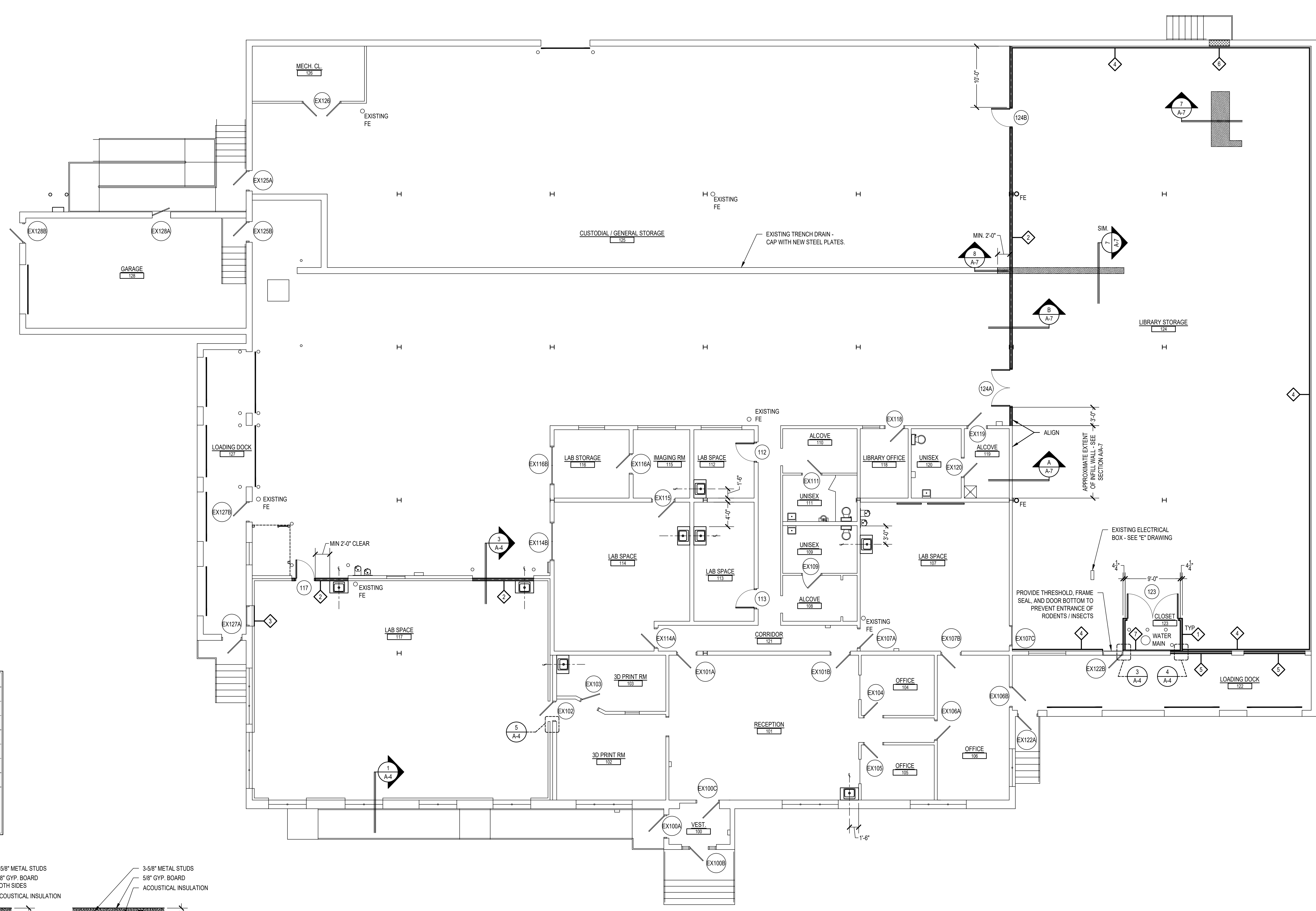
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FLOOR PLAN  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
1041 EAST ROCKLAND STREET, READING, PA 19604

ALL DIMENSIONS AND EXISTING CONDITIONS  
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JOB NO.: 21006.00  
DRAWN BY: KDN  
DATE: 05/10/2021

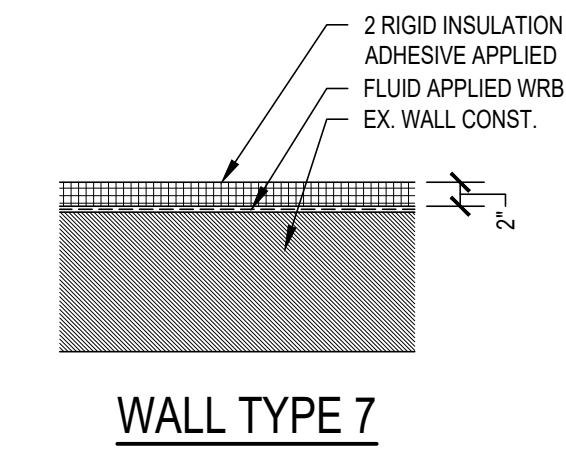
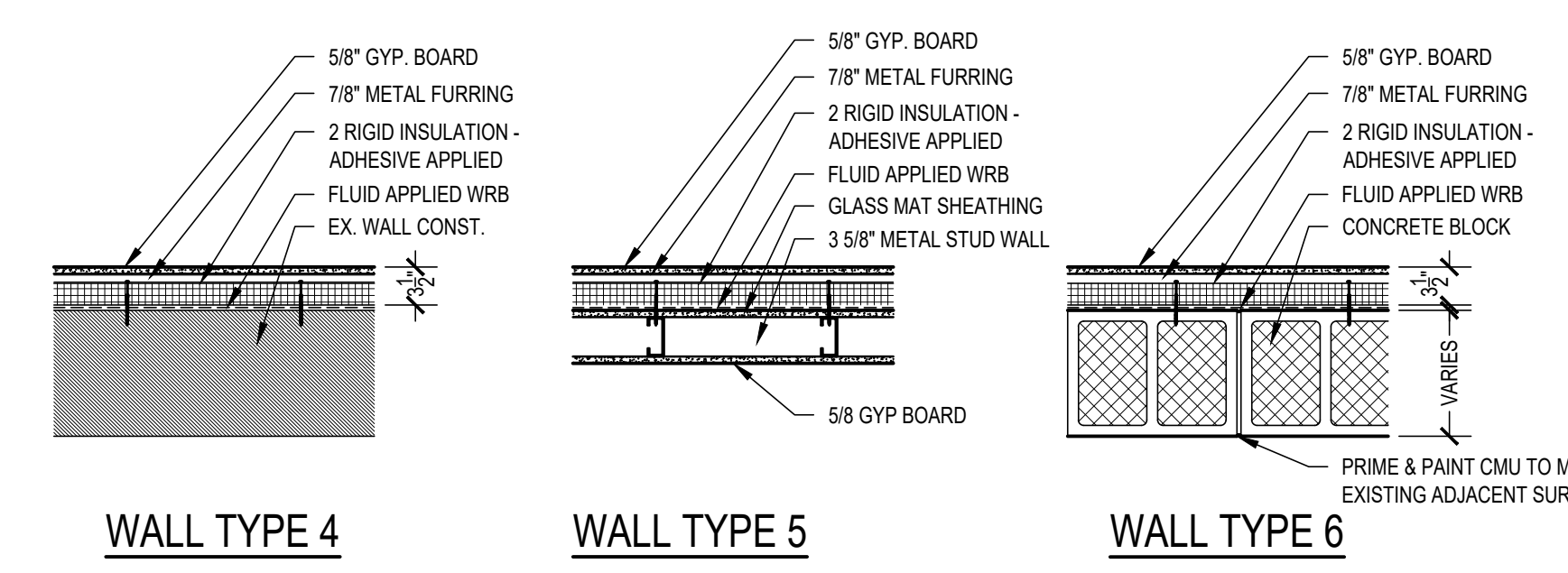
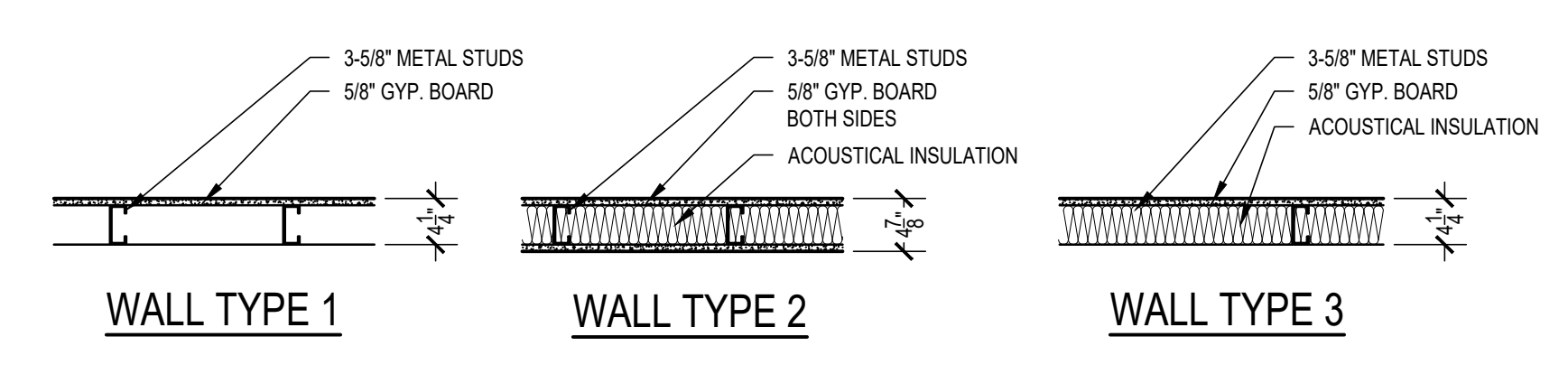
A-4



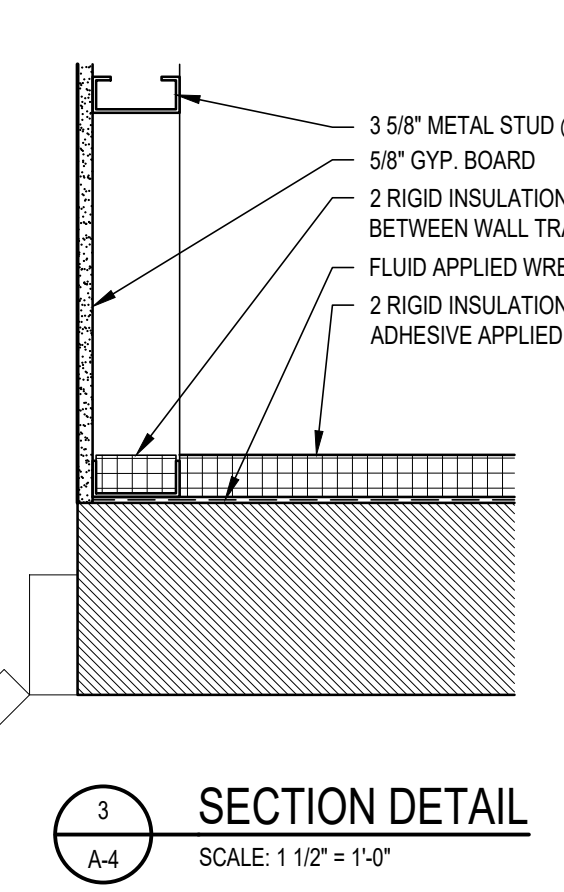
FIRST FLOOR PLAN  
SCALE: 1/8" = 1'-0"

WALL TYPE LEGEND	
	EXISTING CONSTRUCTION TO BE DEMOLISHED
	EXISTING WALL TO REMAIN
	GYPSUM BOARD WALL
	GYPSUM BOARD WALL WITH ACOUSTICAL INSULATION
	CONCRETE BLOCK WALL
	GYPSUM BOARD ON METAL FURRING W/ RIGID INSULATION ON EXISTING WALL
	CORNER GUARD

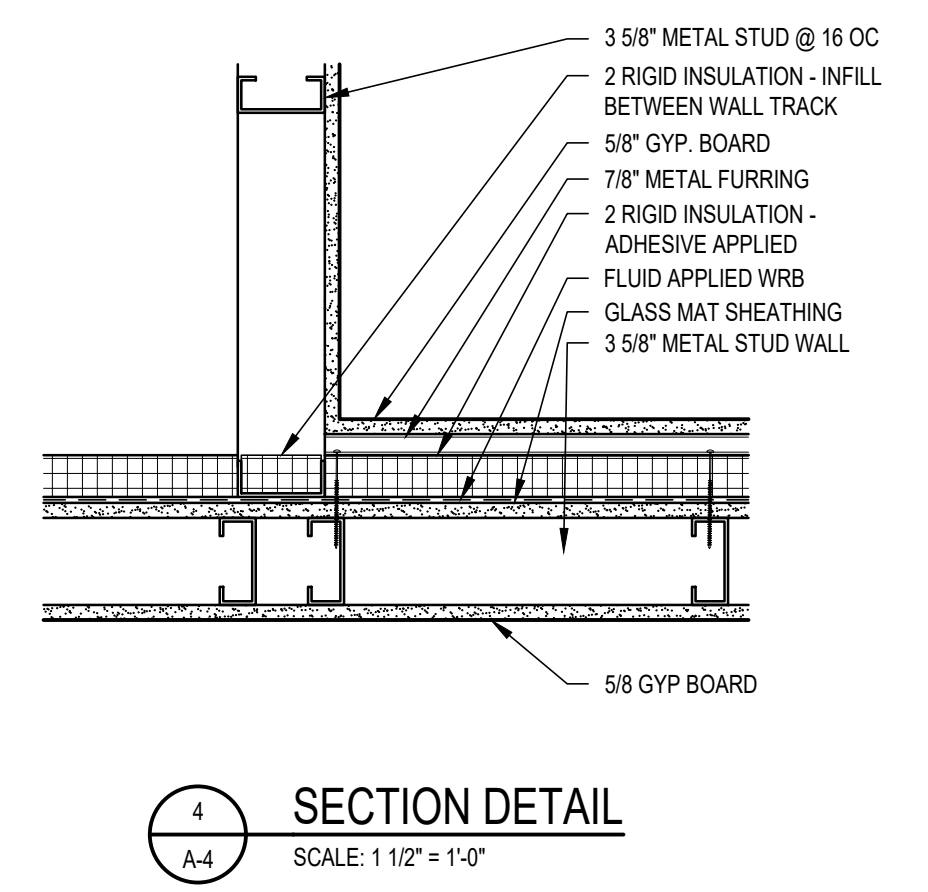
REFER TO PLANS, WALL SECTIONS, DETAILS, ROOM FINISH SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING WALL CONSTRUCTION AND FINISHES.



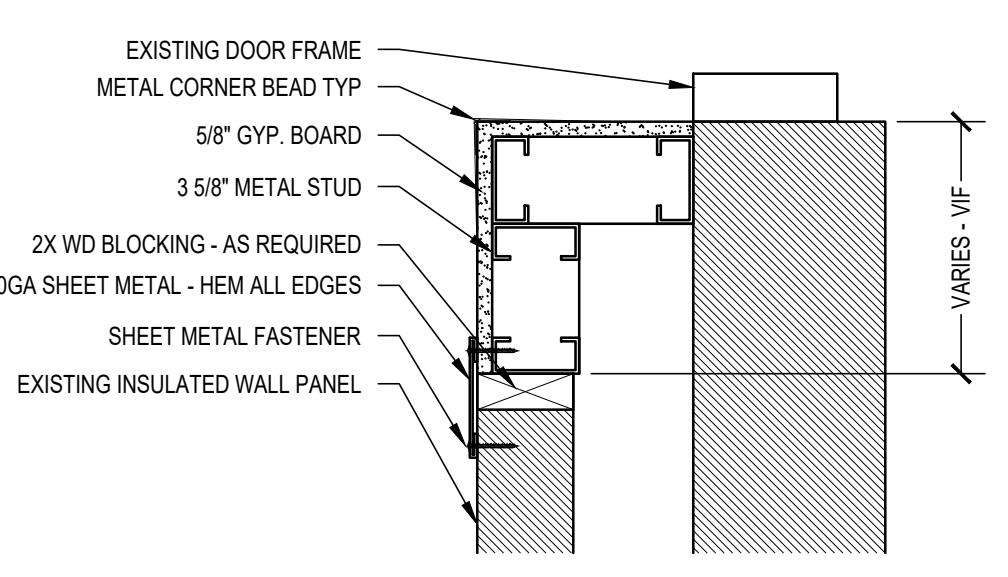
WALL TYPE DETAILS  
SCALE: 3/4" = 1'-0"  
NOTE: ALL WALLS SHALL RUN TO BOTTOM OF DECK



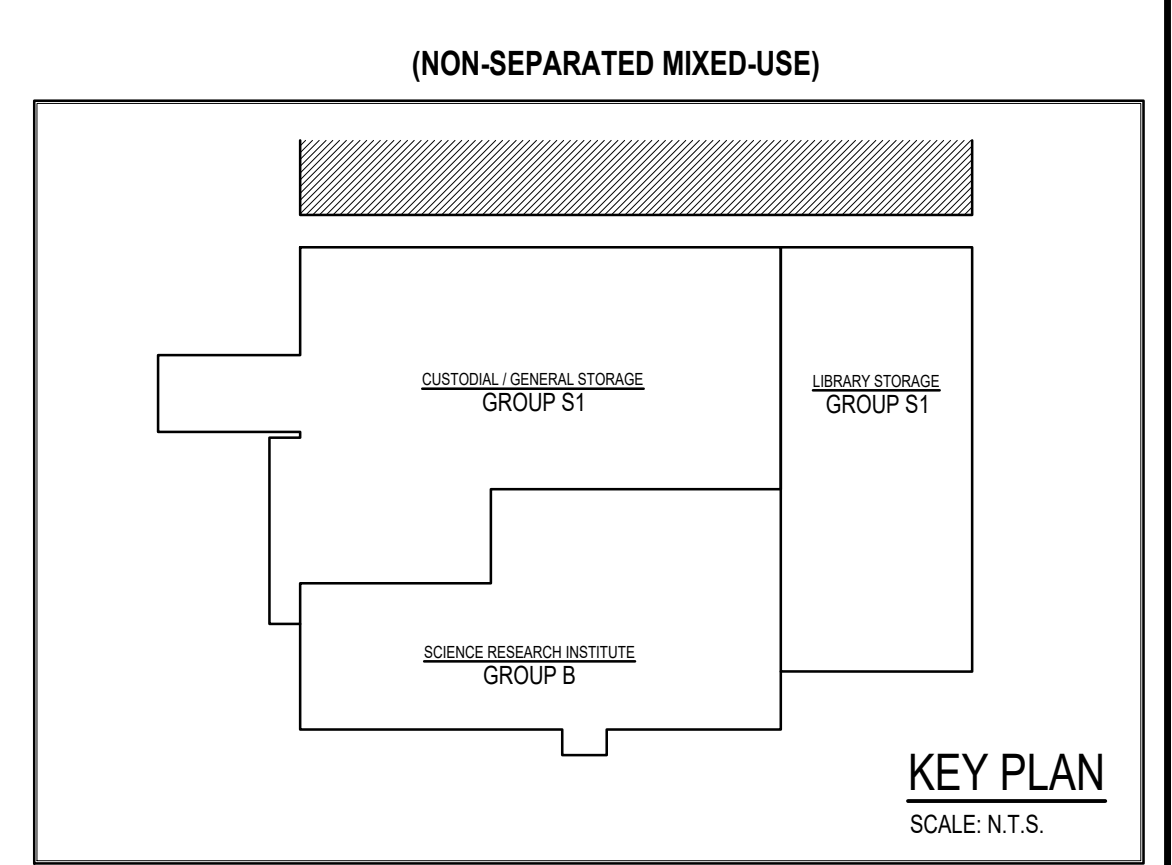
SECTION DETAIL  
SCALE: 1 1/2" = 1'-0"



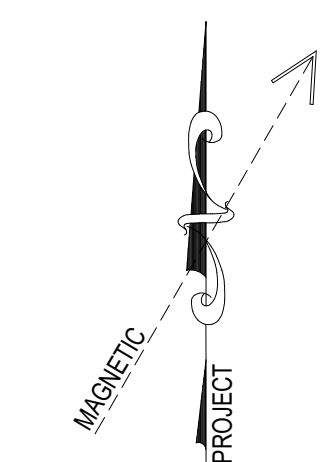
SECTION DETAIL  
SCALE: 1 1/2" = 1'-0"



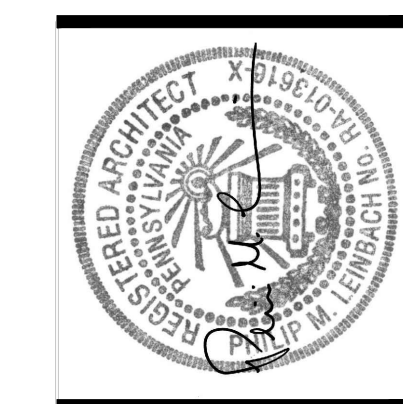
SECTION DETAIL  
SCALE: 1 1/2" = 1'-0"



KEY PLAN  
SCALE: N.T.S.



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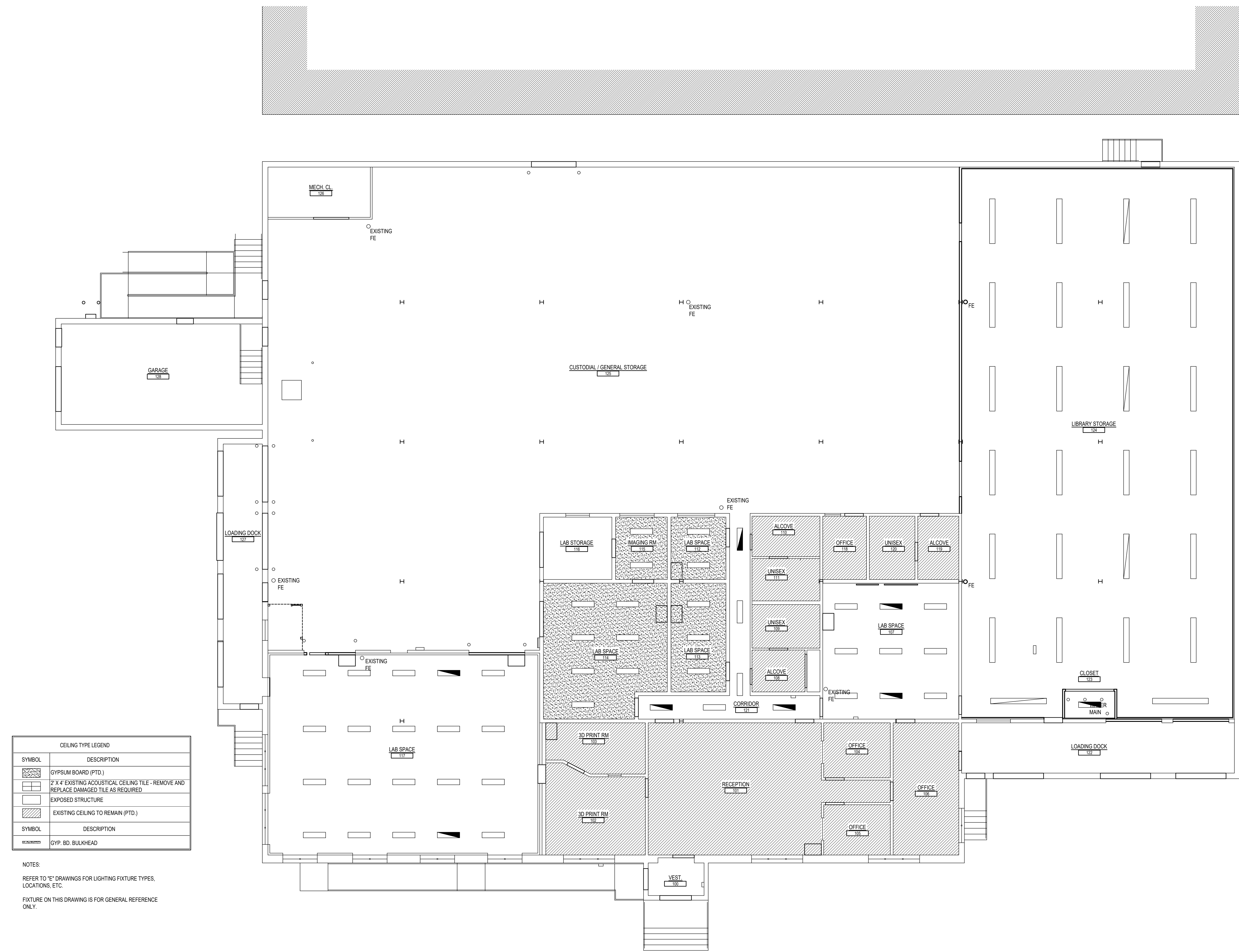
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 3700 PERKINOMEN AVENUE, READING, PA 19606-2785  
 Phone: 610.779.3320 Fax: 610.779.8022 www.aem-arch.com



**REFLECTED CEILING PLAN**  
 RENOVATIONS TO THE  
 ROCKLAND ST WAREHOUSE  
 ALBRIGHT COLLEGE  
 1041 EAST ROCKLAND STREET, READING, PA 19604

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

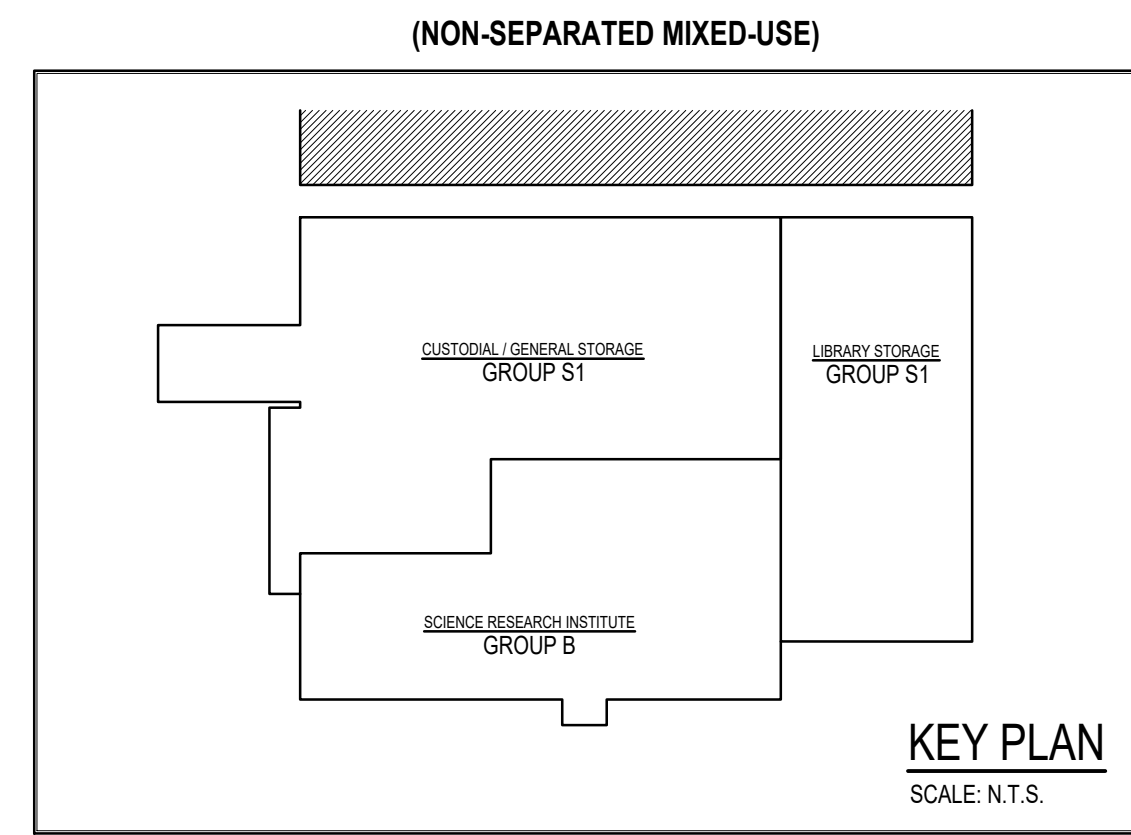
JOB NO.: 21006.00  
 DRAWN BY: KCM  
 DATE: 05/10/2021



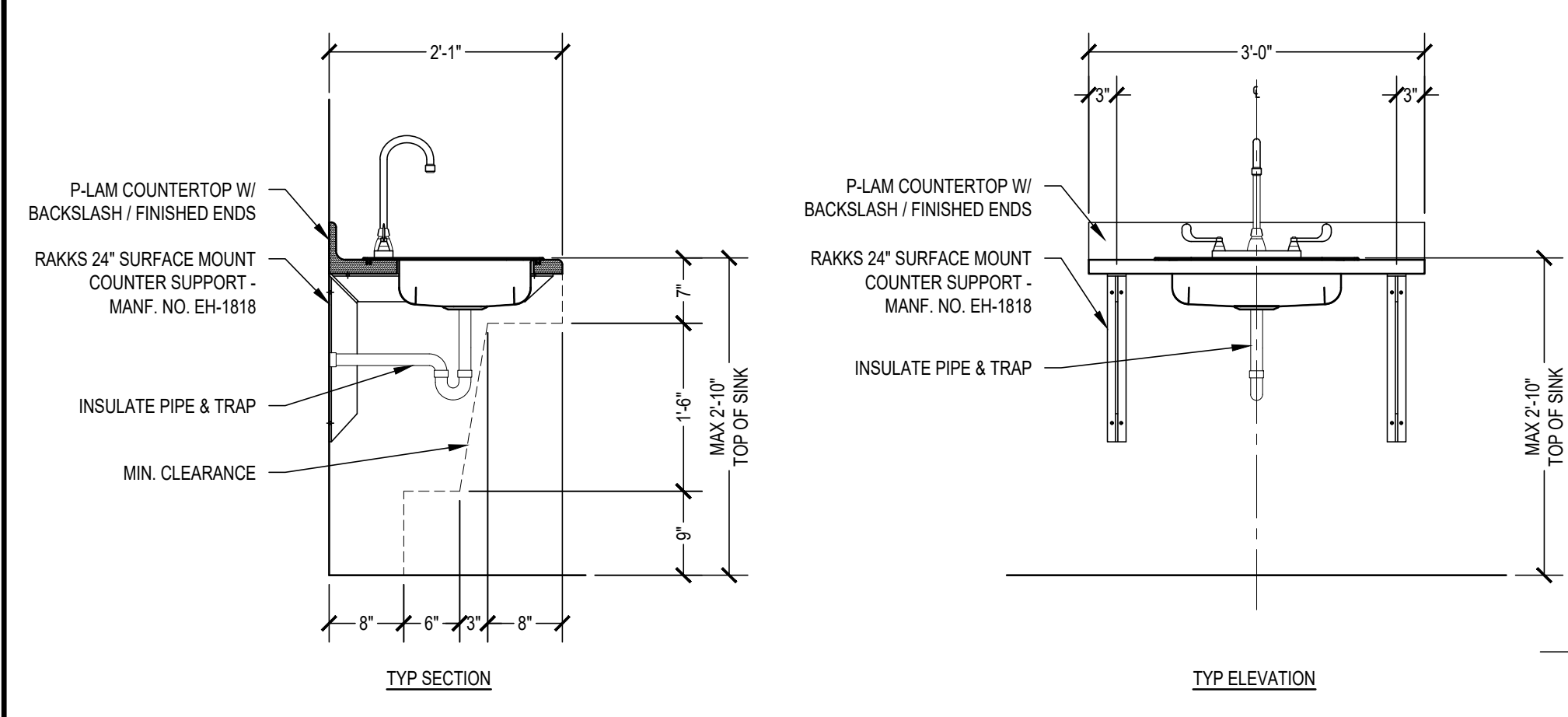
CEILING TYPE LEGEND	
	GYPSUM BOARD (PTD.)
	2' X 4' EXISTING ACOUSTICAL CEILING TILE - REMOVE AND REPLACE DAMAGED TILE AS REQUIRED
	EXPOSED STRUCTURE
	EXISTING CEILING TO REMAIN (PTD.)
	GYP. BD. BULKHEAD

NOTES:  
 REFER TO 'E' DRAWINGS FOR LIGHTING FIXTURE TYPES, LOCATIONS, ETC.  
 FIXTURE ON THIS DRAWING IS FOR GENERAL REFERENCE ONLY.

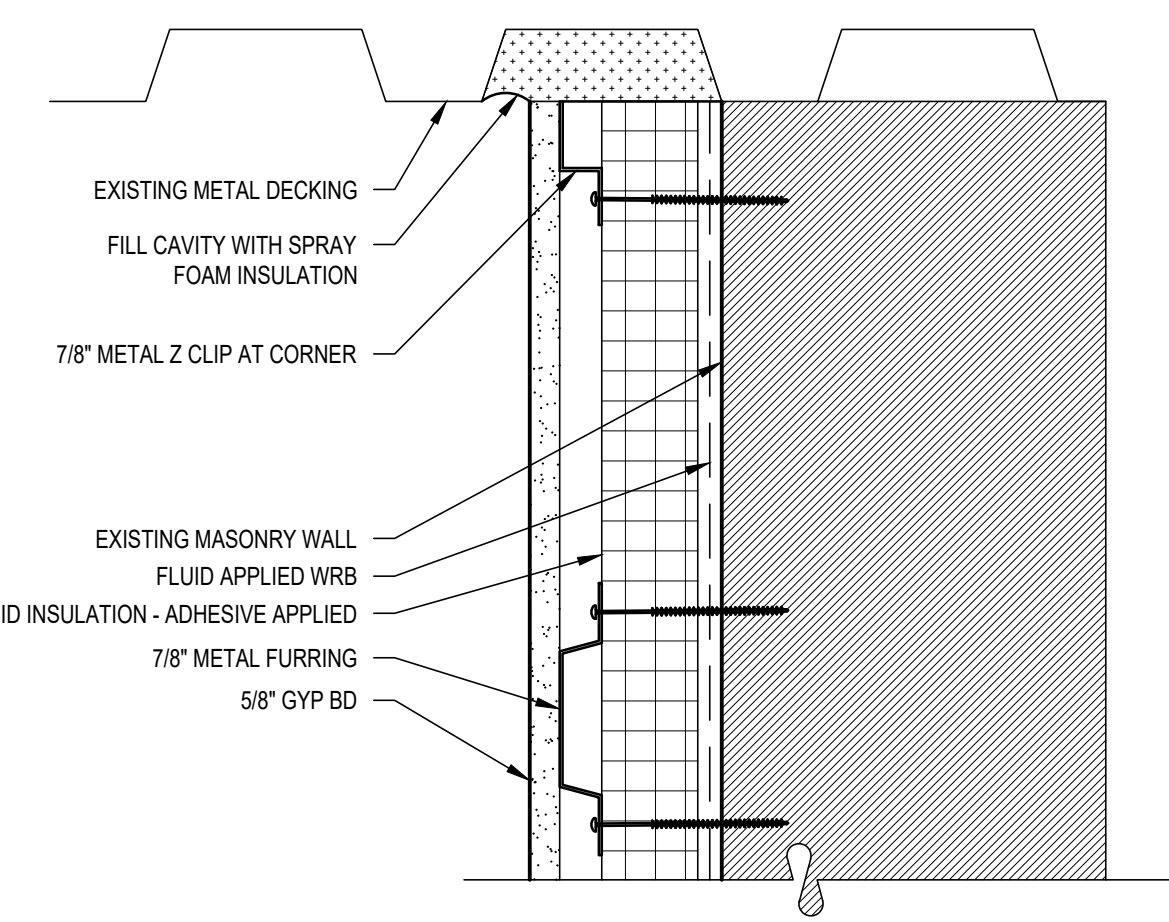
**REFLECTED CEILING PLAN**  
 SCALE: 1/8" = 1'-0"



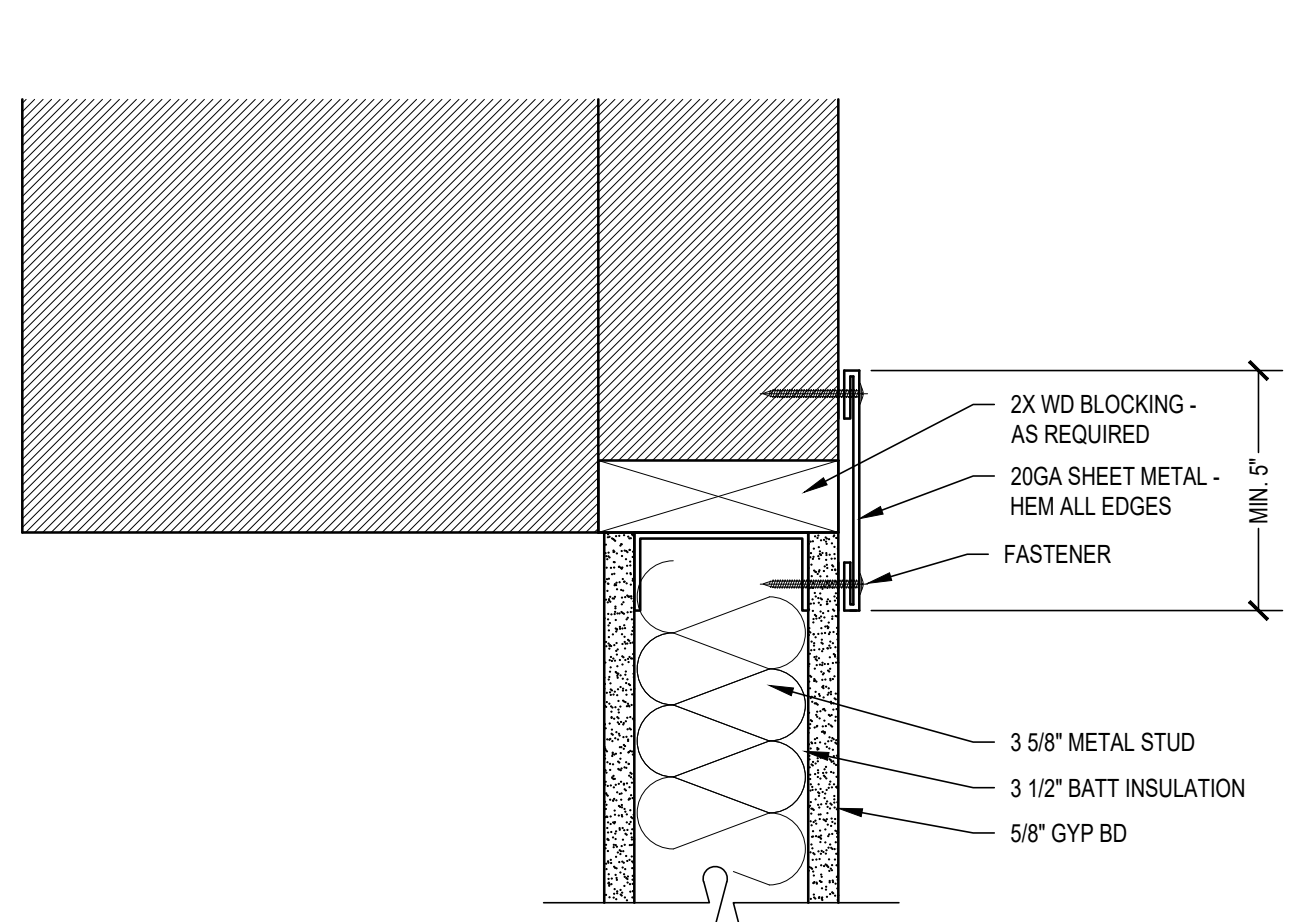




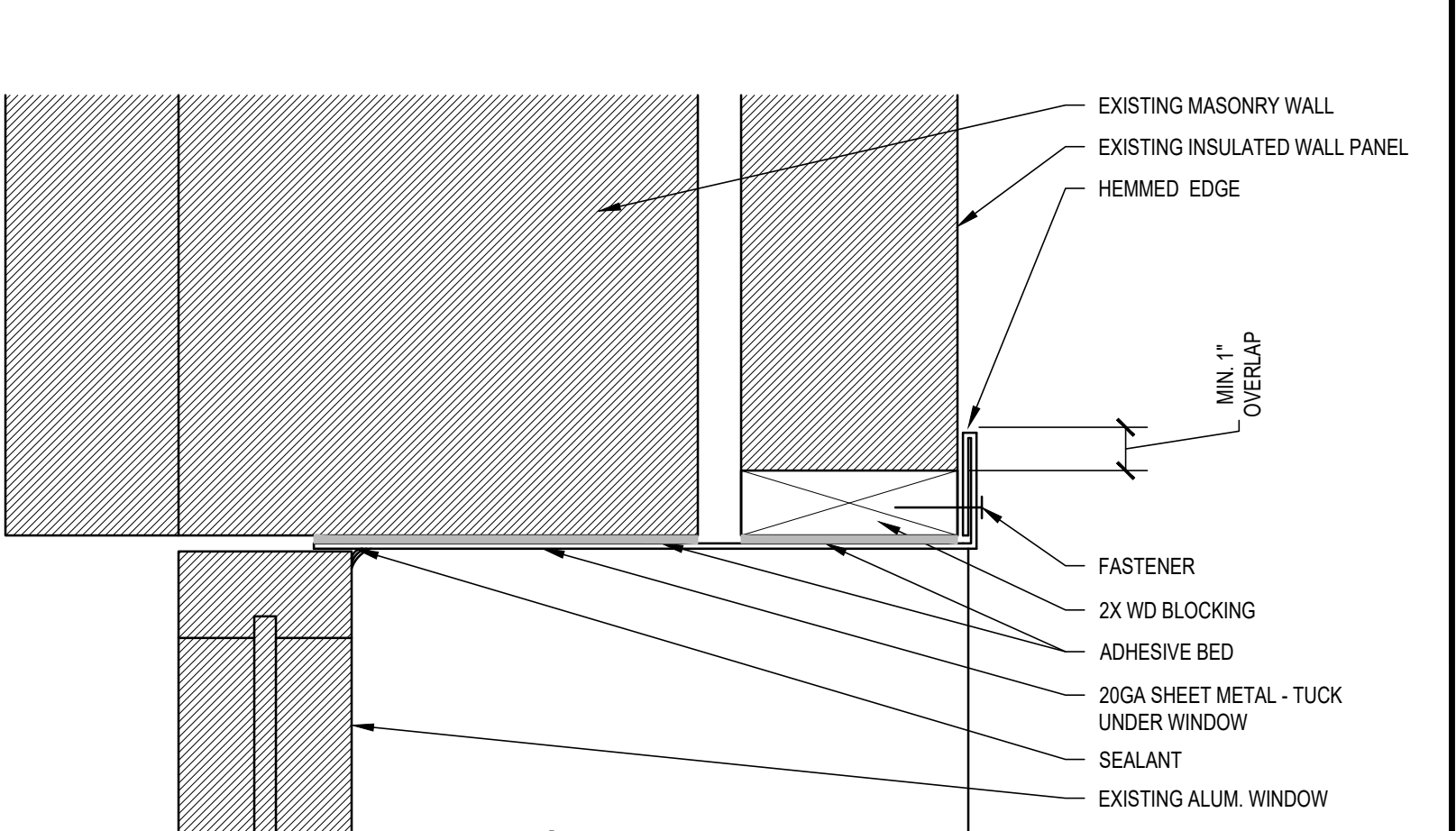
11 SINK DETAILS  
SCALE: 3/4" = 1'-0"



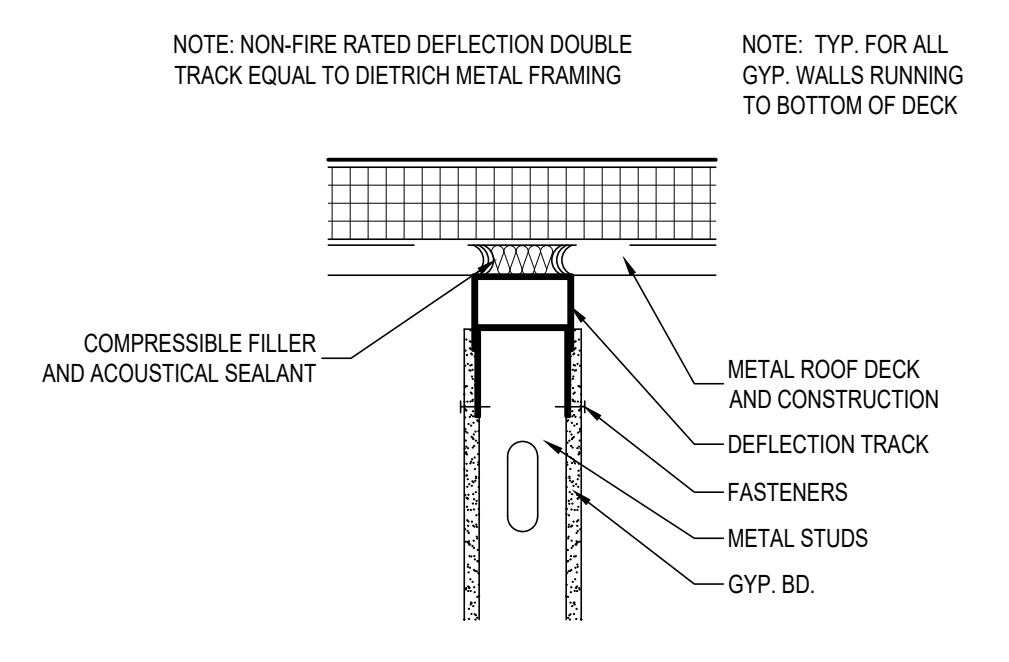
10 TYP PATCH AT EXISTING FREEZER PANELS  
SCALE: 3/4" = 1'-0"



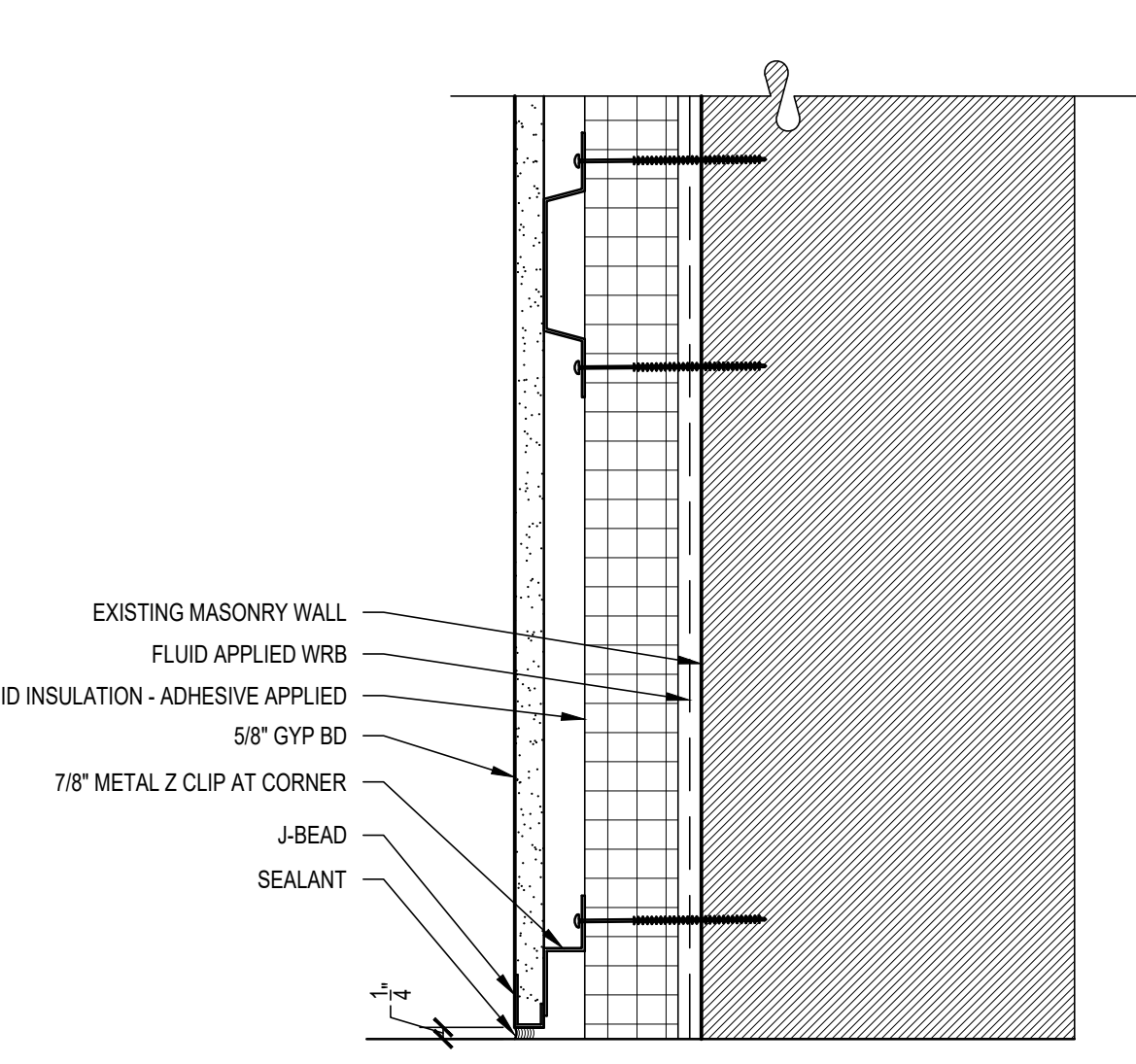
3 TYP HEAD / JAMB DETAIL AT INSULATED METAL PANEL  
SCALE: 3/4" = 1'-0"



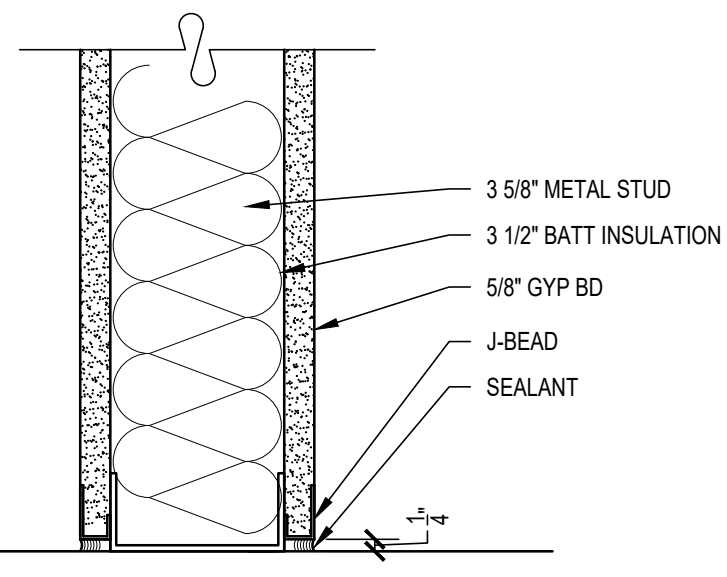
1 TYP WINDOW SILL DETAIL  
SCALE: 3/4" = 1'-0"



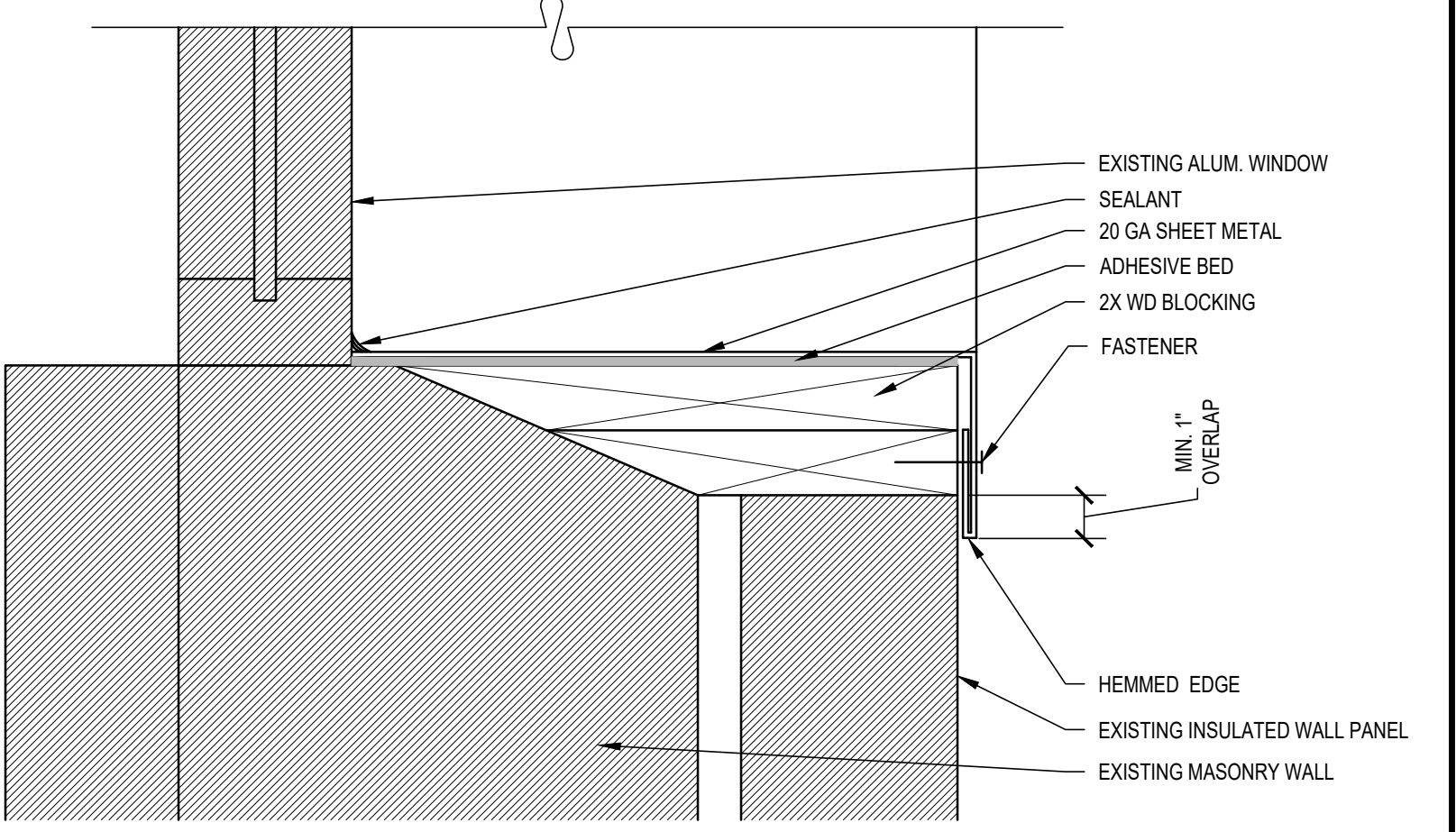
6 TYPICAL NON-RATED GYPSUM BOARD / METAL STUD DEFLECTION TRACK DETAIL  
SCALE: 1-1/2" = 1'-0"



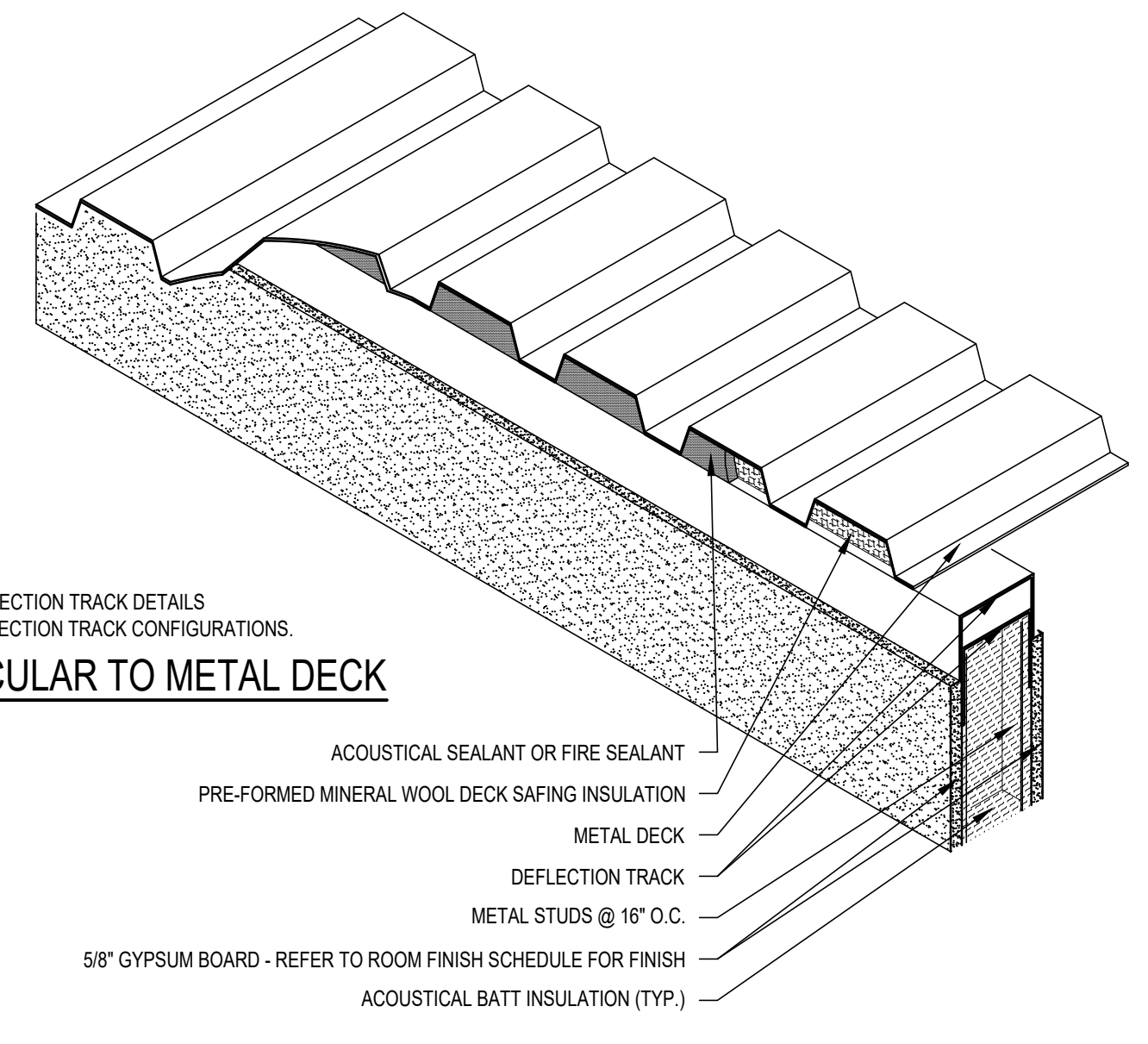
5 TYP HEAD / SILL DETAIL AT FURRED OUT WALL  
SCALE: 3/4" = 1'-0"



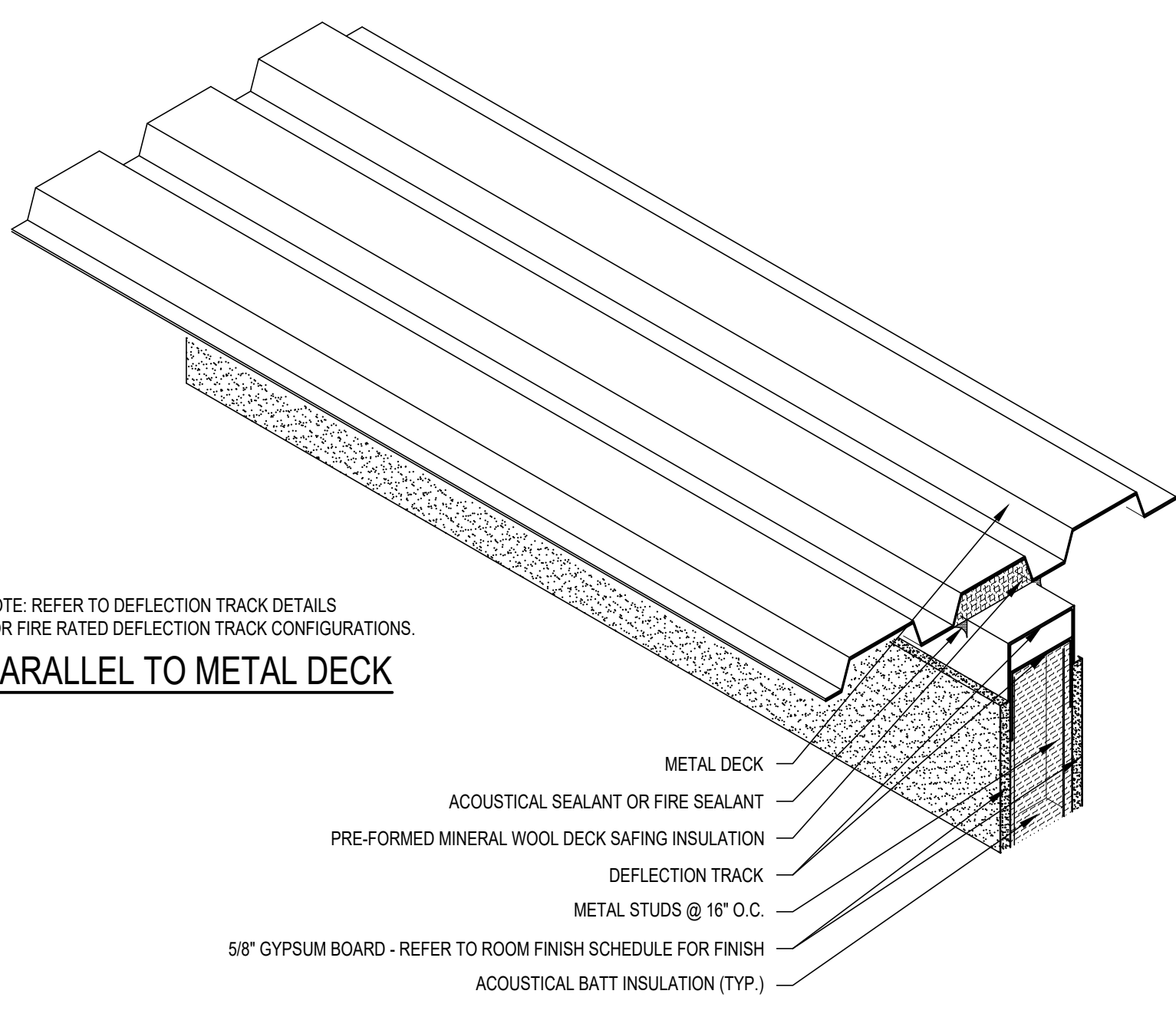
4 TYP PARTITION SILL DETAIL  
SCALE: 3/4" = 1'-0"



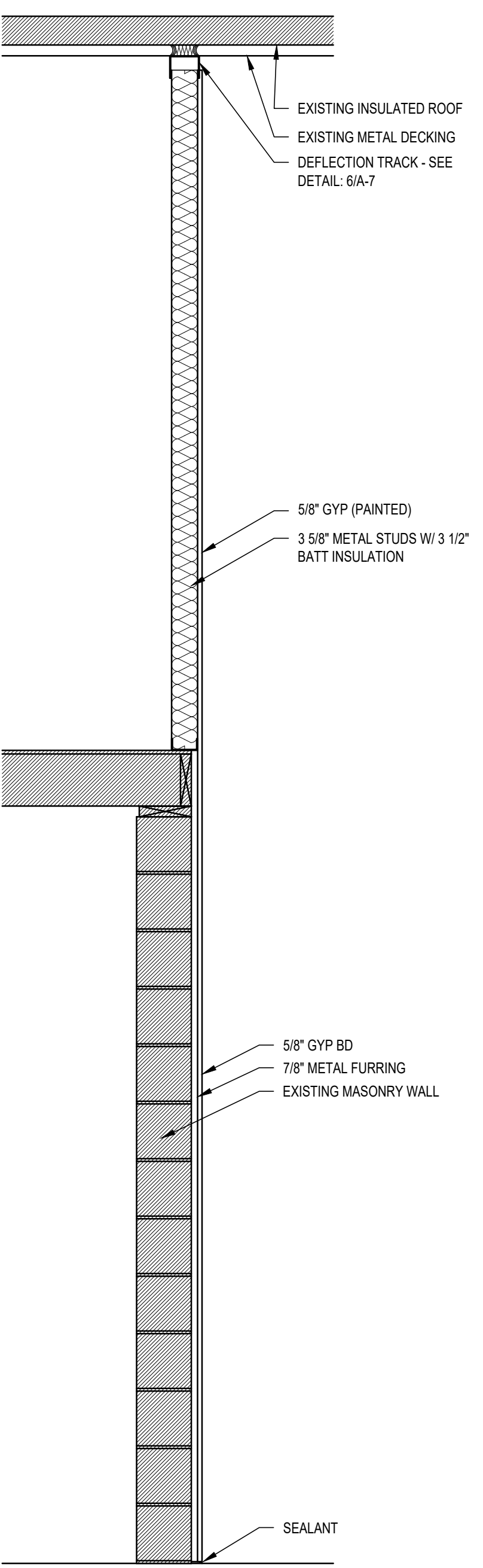
2 TYP WINDOW SILL DETAIL  
SCALE: 3/4" = 1'-0"



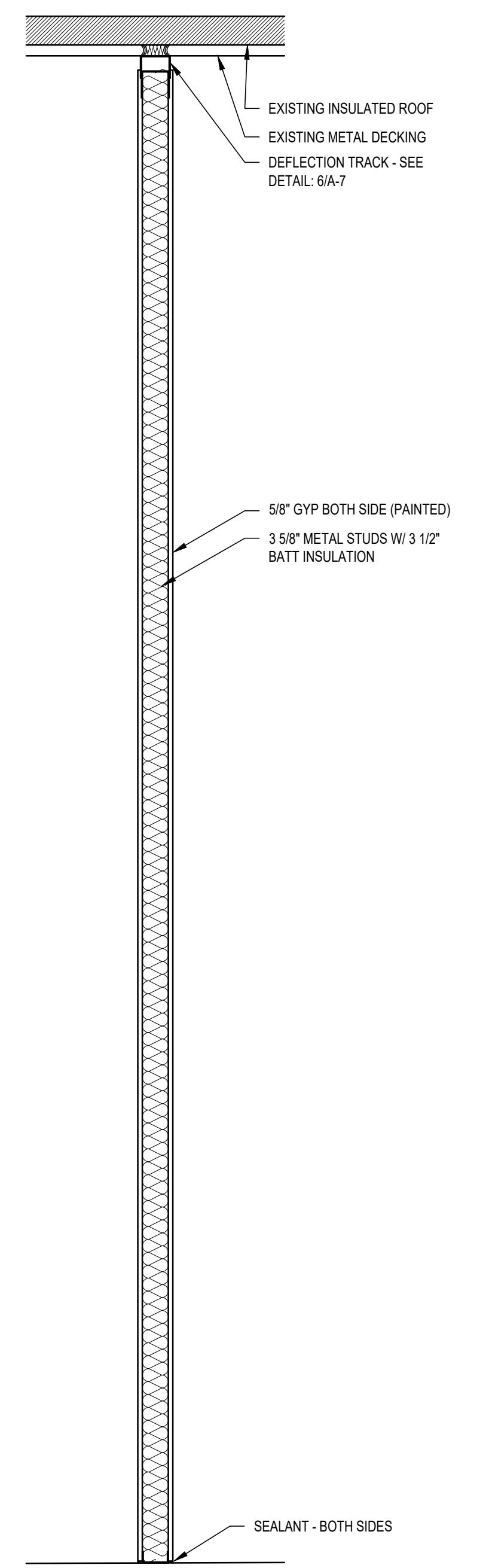
NOTE: REFER TO DEFLECTION TRACK DETAILS FOR FIRE RATED DEFLECTION TRACK CONFIGURATIONS.  
PERPENDICULAR TO METAL DECK



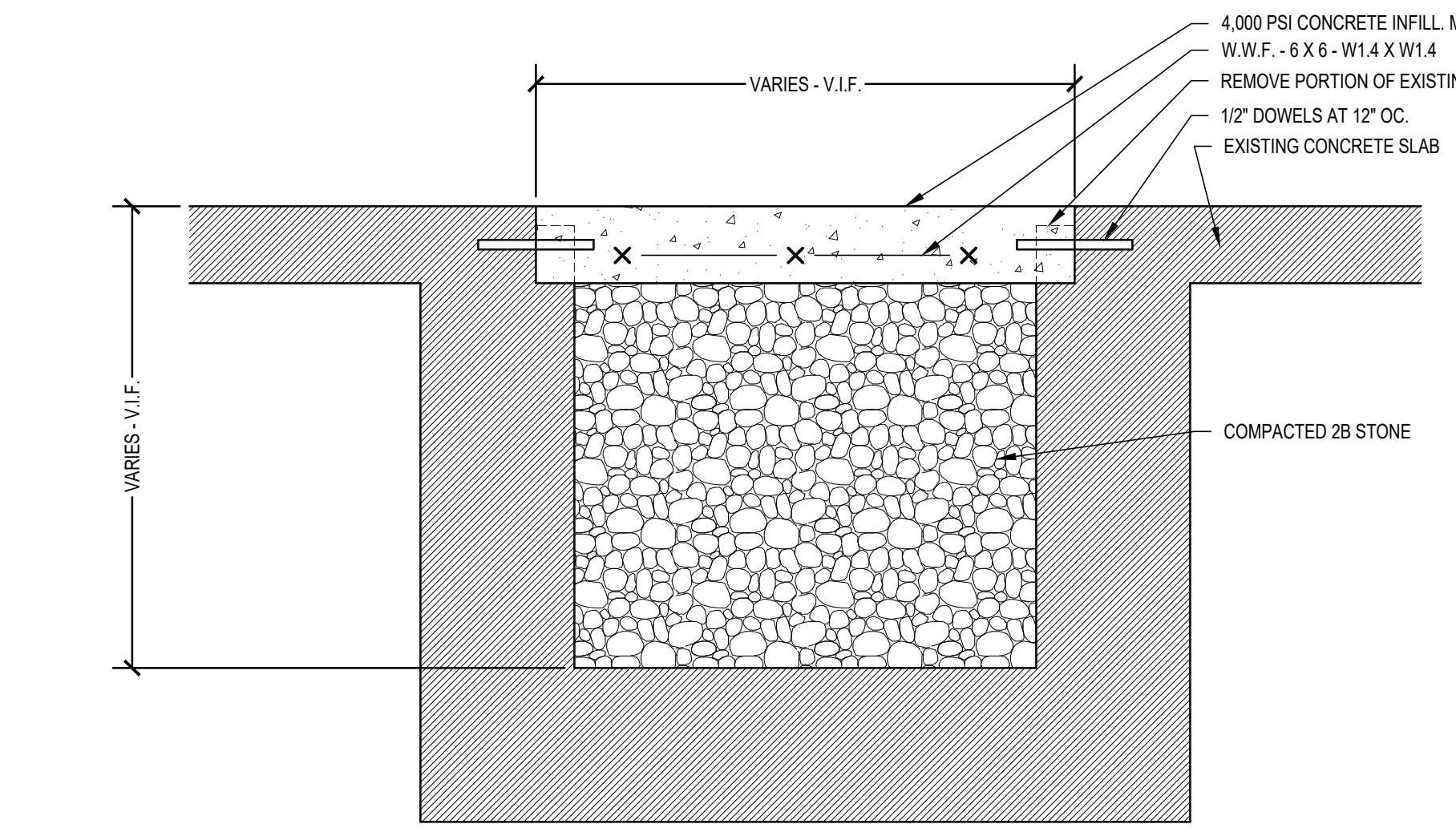
NOTE: REFER TO DEFLECTION TRACK DETAILS FOR FIRE RATED DEFLECTION TRACK CONFIGURATIONS.  
PARALLEL TO METAL DECK



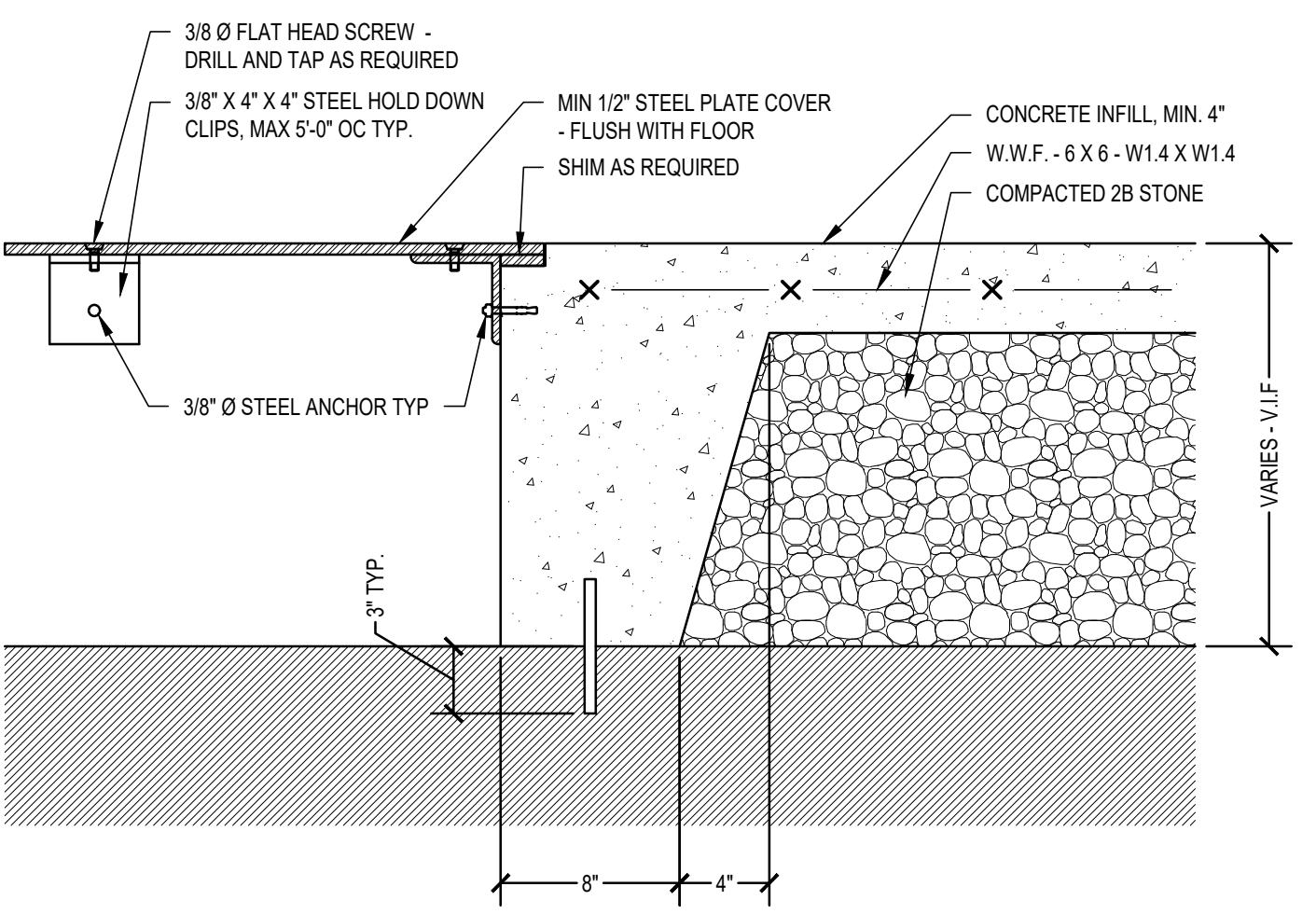
A WALL SECTION  
SCALE: 3/4" = 1'-0"



B WALL SECTION  
SCALE: 3/4" = 1'-0"

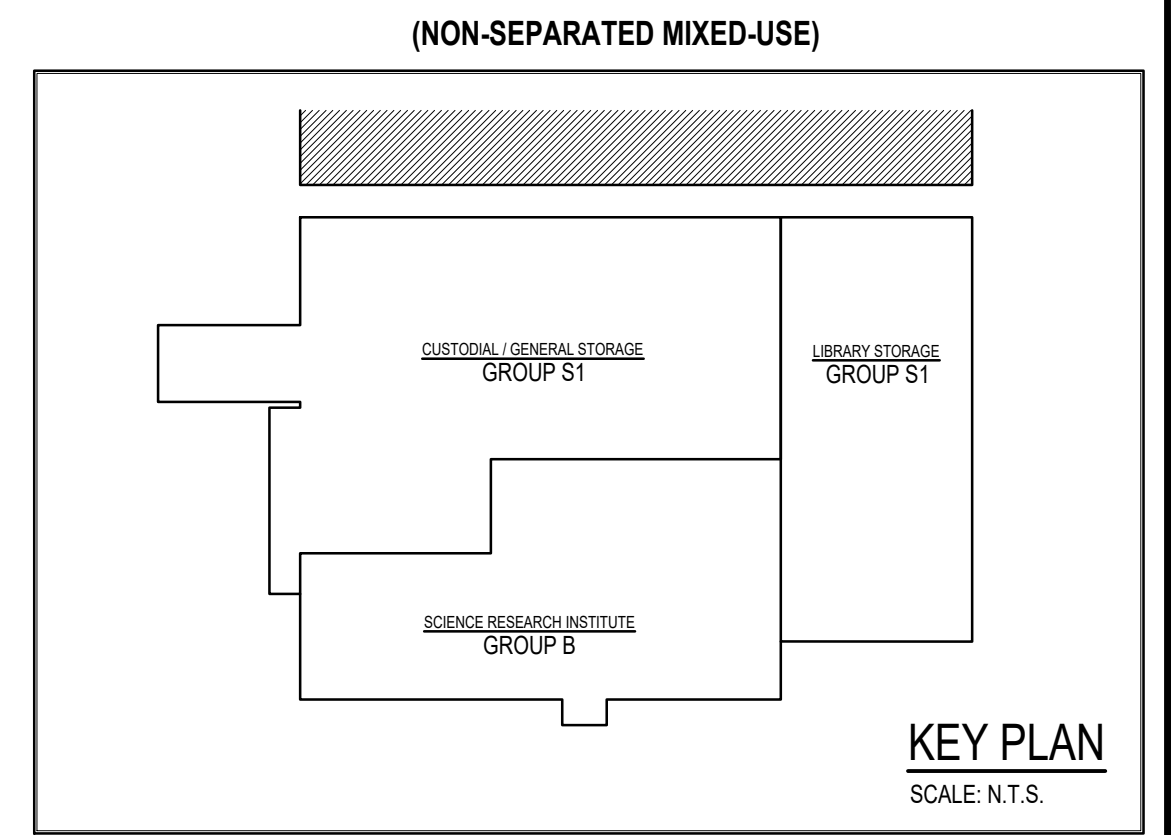


7 TYP FLOOR TRENCH INFILL  
SCALE: 1-1/2" = 1'-0"

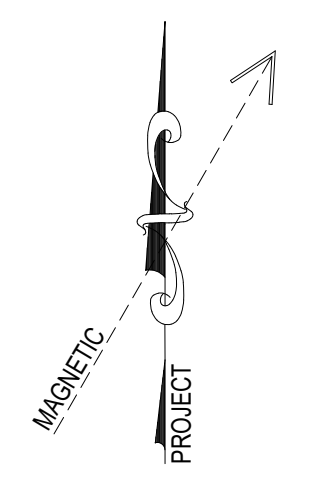


8 TYP FLOOR TRENCH INFILL  
SCALE: 1-1/2" = 1'-0"

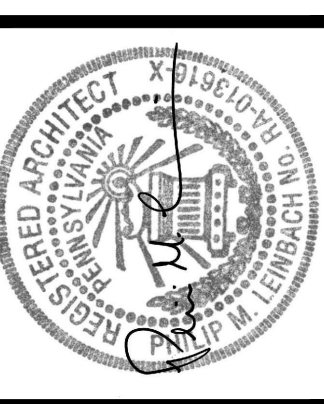
9 TYPICAL TOP OF WALL DETAIL @ GYPSUM BOARD ON METAL STUD  
SCALE: 1-1/2" = 1'-0"



KEY PLAN  
SCALE: N.T.S.



ISSUED FOR PERMIT  
MAY 10, 2021



AEM ARCHITECTS, INC.  
3700 PERKINS AVENUE, READING, PA 19606-2785  
Phone: 610.779.3320 Fax: 610.779.8022 www.aem-arch.com

TYPICAL DETAILS  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
1041 EAST ROCKLAND STREET, READING, PA 19604

ALL DIMENSIONS AND EXISTING CONDITIONS  
SHALL BE CHECKED AND VERIFIED  
BY THE CONTRACTOR AT THE SITE  
JOB NO.: 21006.00  
DRAWN BY: KDN  
DATE: 05/10/2021

A-7

**DESIGN CRITERIA NOTES:**

- THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.

INTERNATIONAL BUILDING CODE, IBC 2015 EDITION  
 ASCE 7-10 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES  
 AISC 360-10 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS  
 AISC 303-10 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES  
 ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND MASONRY  
 ACI 530-13 - SPECIFICATION FOR MASONRY STRUCTURES

- DESIGN LOADS ARE AS LISTED BELOW. NO PROVISIONS HAVE BEEN MADE FOR FUTURE EXPANSION.

LIVE LOADS:  
 UNIFORMLY DISTRIBUTED LIVE LOADS IN PSF  
 ROOF = 20 PSF

SUPERIMPOSED DEAD LOADS:  
 MECHANICAL, ELECTRICAL AND CEILING = 10 PSF  
 FINISHES WHERE SHOWN ON ARCHITECTURAL AS REQUIRED

WIND LOADS:  
 BASIC WIND SPEED, V (ULT) = 115 MPH  
 RISK CATEGORY = II  
 WIND EXPOSURE = C  
 APPLICABLE INTERNAL PRESSURE COEFFICIENT +/- 0.18  
 WIND PRESSURES FOR COMPONENTS AND CLADDING (LOCATIONS PER ASCE 7)

COMPONENTS AND CLADDING PRESSURES (SERVICE)			
ZONE	EFFECTIVE WIND AREA	POSITIVE DESIGN PRESSURES	NEGATIVE DESIGN PRESSURES
1	10 SF	10 PSF	-18 PSF
	20 SF	10 PSF	-18 PSF
	50 SF	10 PSF	-17 PSF
	100 SF	10 PSF	-16 PSF
2	10 SF	10 PSF	-30 PSF
	20 SF	10 PSF	-27 PSF
	50 SF	10 PSF	-23 PSF
	100 SF	10 PSF	-20 PSF
3	10 SF	10 PSF	-45 PSF
	20 SF	10 PSF	-38 PSF
	50 SF	10 PSF	-27 PSF
	100 SF	10 PSF	-20 PSF
4	10 SF	17 PSF	-18 PSF
	20 SF	16 PSF	-17 PSF
	50 SF	15 PSF	-16 PSF
	100 SF	14 PSF	-15 PSF
5	10 SF	17 PSF	-22 PSF
	20 SF	16 PSF	-21 PSF
	50 SF	15 PSF	-19 PSF
	100 SF	14 PSF	-17 PSF

SEISMIC LOADS:  
 RISK CATEGORY = II  
 IMPORTANCE FACTOR = 1.0  
 MAPPED SPECTRAL RESPONSE ACCELERATIONS:  
 S<sub>s</sub> = 0.19g  
 S<sub>1</sub> = 0.14g  
 SPECTRAL RESPONSE COEFFICIENTS:  
 SDS = 0.207g  
 SDI = 0.71g  
 SITE CLASS = D  
 SEISMIC DESIGN CATEGORY = B

SNOW LOADS:  
 GROUND SNOW LOAD P<sub>s</sub> = 30 PSF  
 FLAT ROOF SNOW LOAD = 25.2 PSF + DRIFT  
 EXPOSURE FACTOR C<sub>e</sub> = 1.0  
 IMPORTANCE FACTOR = 1.0  
 THERMAL FACTOR C<sub>t</sub> = 1.0

**SUBMITTAL AND SHOP DRAWING REQUIREMENT NOTES:**

- THE CONTRACTOR SHALL SUBMIT FOR REVIEW BY THE ARCHITECT AND THE ENGINEER ALL INFORMATION REQUIRED BY THE CONTRACT DOCUMENTS INCLUDING THE SPECIFICATIONS.
- SHOP DRAWINGS SHALL BE PREPARED, SUBMITTED AND REVIEWED PRIOR TO PROCEEDING WITH FABRICATION AND/OR INSTALLATION OF THE ASSOCIATED WORK. REVIEW PERIOD SHALL BE A MINIMUM OF TWO (2) WEEKS.
- THE CONTRACTOR SHALL SUBMIT FOR REVIEW, DRAWINGS AND CALCULATIONS FOR ALL PERFORMANCE ASSEMBLIES IDENTIFIED IN THE GENERAL NOTES AND LISTED BELOW. THE DESIGN OF THESE ASSEMBLIES IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR CONTRACTOR'S ENGINEER'S SEAL AND SIGNATURE. REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT REQUIREMENTS AS INDICATED ON THE DRAWINGS AND IN GENERAL NOTES.
- REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RE-SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
- SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY.
- SHOP DRAWINGS SUBMITTED FOR REVIEW SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, DIMENSIONS, MATERIALS, AND SIMILAR DATA HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR'S REVIEW INCLUDES BUT IS NOT LIMITED TO VERIFICATION AND COORDINATION OF ACTUAL FIELD CONDITIONS, INCLUDING DIMENSIONS AND ELEVATIONS, AS WELL AS ACTUAL DIMENSIONS FOR SUPPORTS, ANCHORAGES, AND OPENINGS FOR THE ACTUAL EQUIPMENT PURCHASED.

**STEEL NOTES:**

**A. STRUCTURAL STEEL**

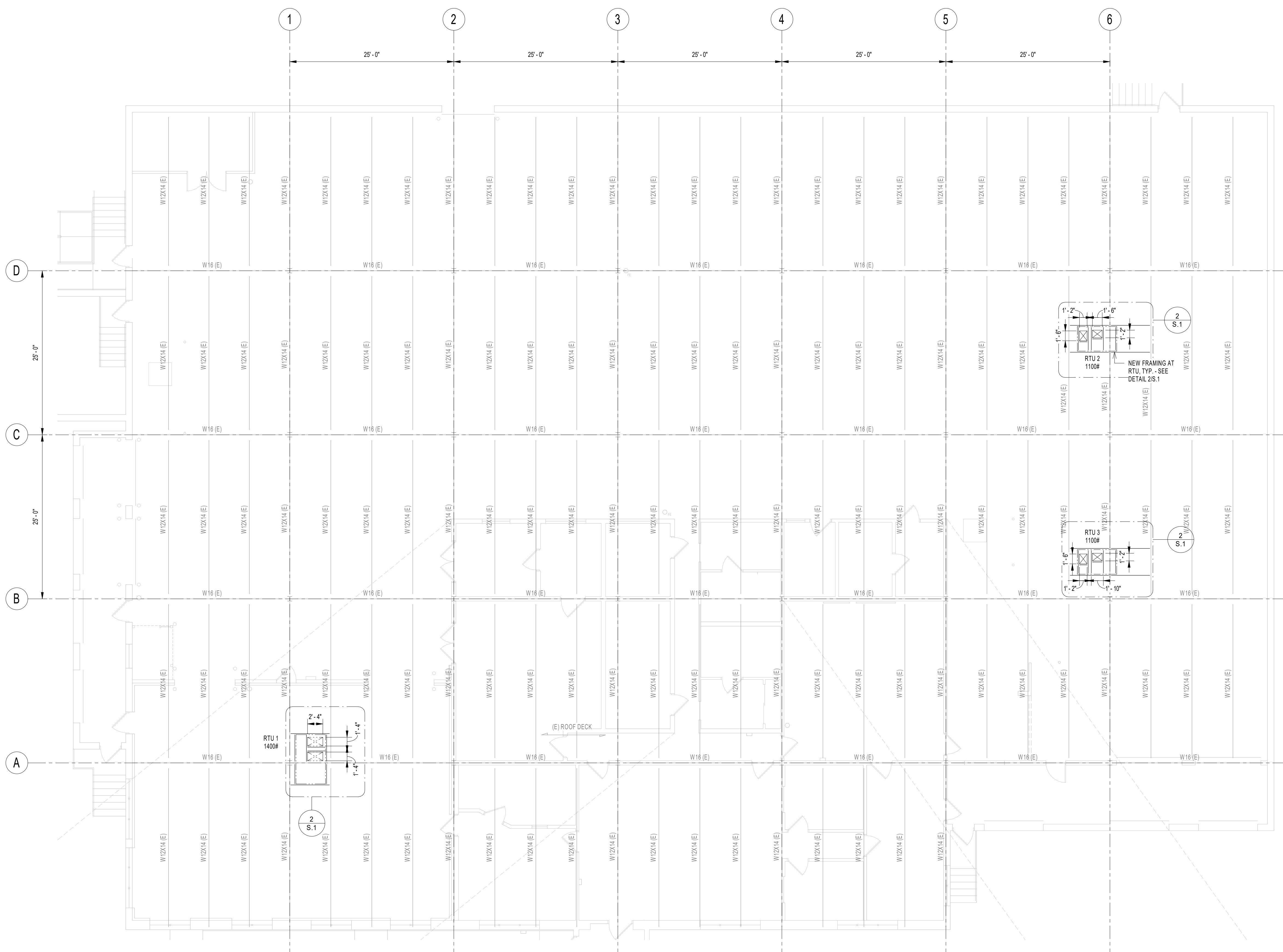
- STRUCTURAL STEEL CONSTRUCTION HAS BEEN DESIGNED IN ACCORDANCE WITH A.I.S.C. 360-05, "STEEL CONSTRUCTION MANUAL."
- STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS, U.N.O.  
 CHANNELS, TEES, ANGLES, BARS, PLATES, ASTM A36  
 W8X10 AND SMALLER BEAMS  
 STEEL TUBING (HSS SECTIONS) ASTM A500-GR. B  
 (F<sub>y</sub> = 46 KSI)

**B. WELDING**

- WELDED CONSTRUCTION SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE" D1.1; AWS D1.3-SHEET STEEL; AND AWS D1.4 "REINFORCING STEEL WELDING CODE".
- ELECTRODES FOR FIELD AND SHOP WELDS OF STRUCTURAL STEEL SHALL BE E70XX, U.N.O.
- ELECTRODES FOR WELDING OF REINFORCING STEEL SHALL BE E80XX.
- ELECTRODES FOR WELDING OF SHEET STEEL SHALL CONFORM TO AWS D1.3.
- WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1. FILLET WELDS NOT SPECIFIED AS TO LENGTH SHALL BE CONTINUOUS.
- PROVIDE FILLET WELDS AT ALL CONTACT JOINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS DETAILED OTHERWISE ON THE DRAWINGS.

**MISCELLANEOUS NOTES:**

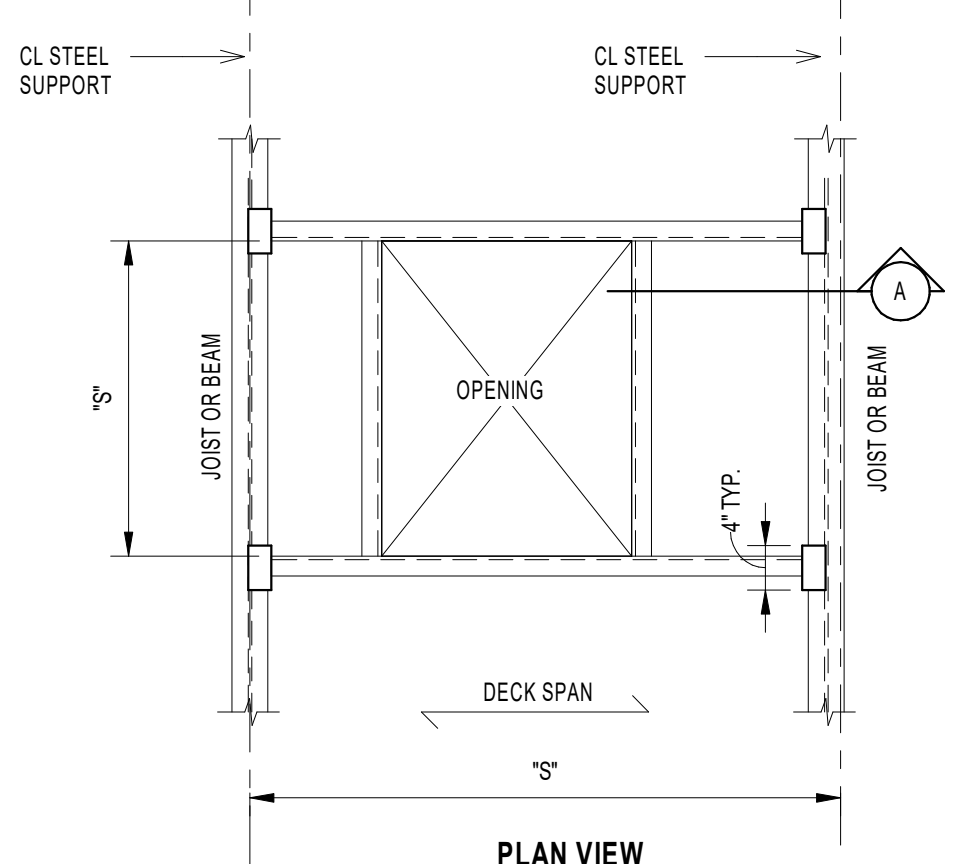
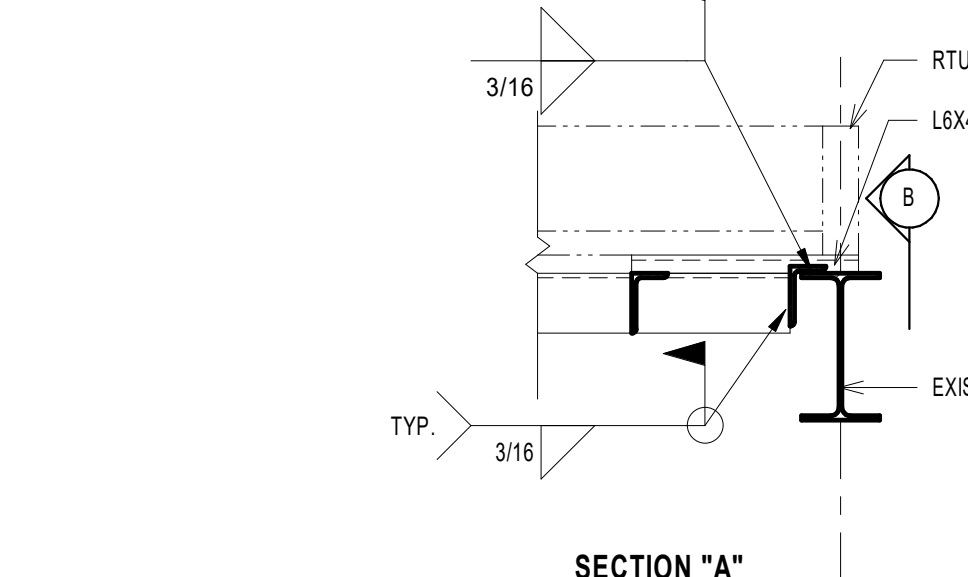
- THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS. DO NOT SCALE THE DRAWINGS.
- THE STRUCTURAL DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS AND DO NOT BY THEMSELVES PROVIDE ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT. PRINCIPAL OPENINGS, CURBS, AND SLAB DEPRESSIONS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECH'L, ELEC'L, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS, OTHER OPENINGS, AND SLAB DEPRESSIONS NOT SHOWN. THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, CURBS, AND SLAB DEPRESSIONS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. SIZE AND LOCATION OF OPENINGS SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH ANY WORK.
- THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCH'L, MECH'L, ELEC'L, PLUMBING, AND CIVIL DRAWINGS TO CONFIRM ALL REQUIREMENTS OF THE WORK. REPORT ANY CONFLICTS/DISCREPANCY BETWEEN THE DISCIPLINES TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL ELEMENTS. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
- THE HORIZONTAL AND VERTICAL DIMENSIONS OF EXISTING STRUCTURES SHALL BE VERIFIED BEFORE WORK IS BEGUN. ANY VARIATION BETWEEN DIMENSIONS SHOWN AND EXISTING DIMENSIONS SHALL BE REPORTED TO THE ARCHITECT.
- THE CONTRACTOR SHALL INSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT PUT ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT THE CONCRETE REACHES THE FULL DESIGN STRENGTH AND ALL FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE.
- ALL STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LOADS LISTED ONLY AS COMPLETED STRUCTURES. THE GENERAL CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT WORK IN PROGRESS UNTIL THE STRUCTURES ARE COMPLETED. THE GENERAL CONTRACTOR SHALL ALSO INSURE THAT ITS OPERATIONS AND PROCEDURES PROVIDE NO LOADING GREATER THAN THE DESIGN LOADS LISTED ON ANY MEMBER.
- ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.



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

**EXISTING ROOF FRAMING PLAN NOTES:**

- COORDINATE ALL SIZES AND LOCATIONS OF MECH'L EQUIPMENT AND ROOF PENETRATIONS WITH EXISTING FRAMING AND RTU MANUFACTURER.
- ALL EXPOSED STEEL SHALL BE GALVANIZED.
- ALL EXISTING DIMENSIONS AND FRAMING SHALL BE FIELD VERIFIED.



- NOTES:
- FOR SIZE AND LOCATION OF OPENINGS, SEE ARCH'L AND MECH'L DRAWINGS.
  - STEEL CONTRACTOR SHALL VERIFY ALL OPENINGS AND EXACT LOCATIONS WITH THE TRADE CONTRACTOR REQUIRING OPENINGS PRIOR TO FABRICATION AND SECTION OF STEEL FRAMES.
  - PROVIDE STEEL FRAMING AS SHOWN AROUND ALL OPENINGS LARGER THAN 2'-0" AT THE ROOF.
  - WHEN SUPPORT SPACING EXCEEDS 6'-0", VERIFY ALL ANGLE SIZES WITH THE ENGINEER.
  - WHERE ROOF STEEL SLOPES, CURB HEIGHTS MUST VARY TO PROVIDE A LEVEL SURFACE.
  - PROVIDE STEEL ANGLES ON ALL SIDES OF OPENINGS UNLESS BEAM IS SHOWN ON PLAN.
- ANGLES SIZES SHALL BE:  
 FOR "S" < 2'-0" USE L6X4X3/8  
 FOR "S" < 4'-0" USE L4X4X3/8  
 FOR "S" < 6'-0" USE L6X4X3/8 (LLV)

**WZG STRUCTURAL**  
 1137 N. GRAVEL PIKE | PO BOX 24  
 ZIEGLERVILLE, PA 19492  
 Phone: 610.831.0566  
 www.wzstructural.com

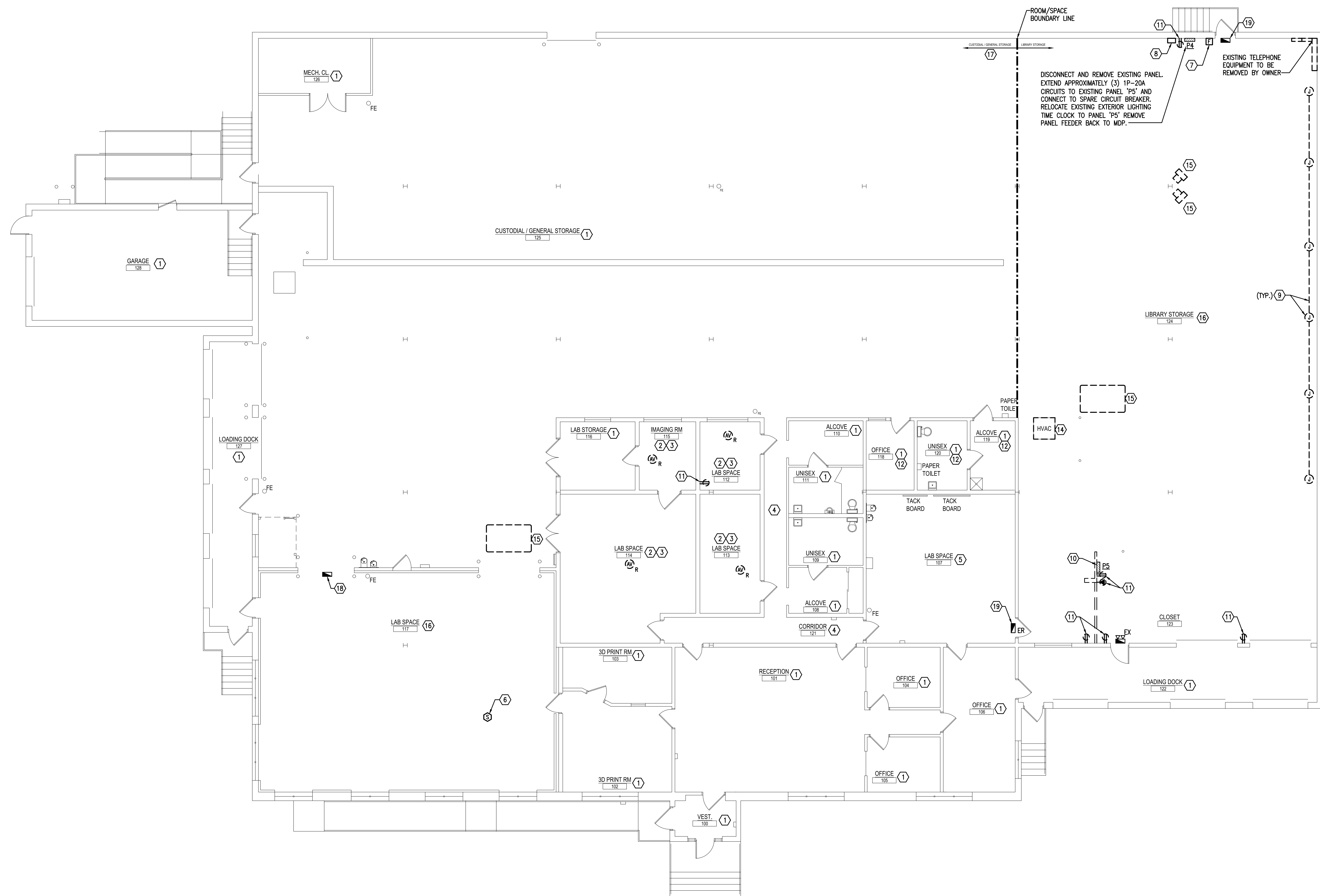
**AEM ARCHITECTS, INC.**  
 3700 PERKOMEN AVENUE, READING, PA 19606-2785  
 Phone: 610.779.3320  
 NATALIE ELIZABETH BIRD, P.E.  
 PROFESSIONAL ENGINEER  
 PA. REG.# FE076743

**ROOF PLAN AND DETAILS**  
 RENOVATIONS TO THE ROCKLAND ST WAREHOUSE  
 ALBRIGHT COLLEGE  
 1041 EAST ROCKLAND STREET READING, PA 19604

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

JOB NO.: 21066.00  
 DRAWN BY: CJW  
 DATE: 05/10/2021



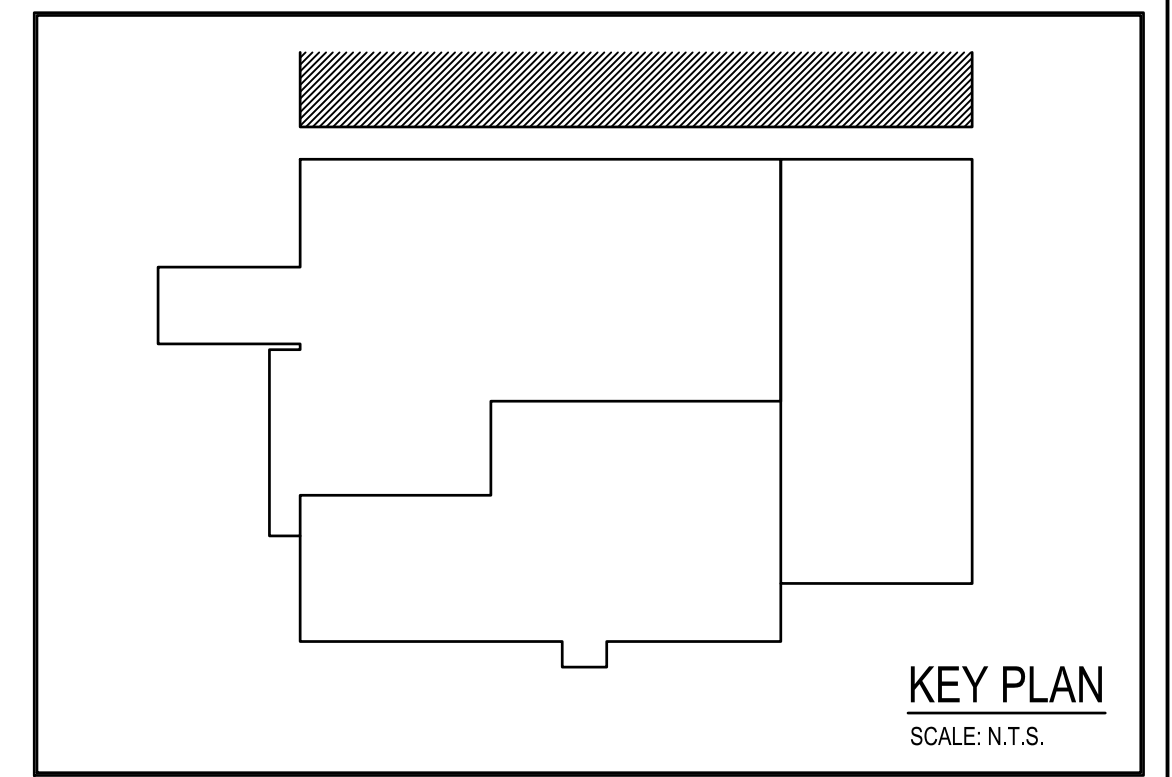


ROOM/SPACE BOUNDARY LINE  
 DISCONNECT AND REMOVE EXISTING PANEL. EXTEND APPROXIMATELY (3) 1P-20A CIRCUITS TO EXISTING PANEL 'P5' AND CONNECT TO SPARE CIRCUIT BREAKER. RELOCATE EXISTING EXTERIOR LIGHTING TIME CLOCK TO PANEL 'P5' REMOVE PANEL FEEDER BACK TO MDP.  
 EXISTING TELEPHONE EQUIPMENT TO BE REMOVED BY OWNER

**① DEMO KEY NOTES:**

1. EXISTING LIGHT FIXTURE(S) AND CONTROLS TO REMAIN IN SPACE.
2. DISCONNECT AND REMOVE EXISTING ROOM LIGHT FIXTURE(S) AND CONTROLS TO ALLOW NEW DRYWALL CEILING TO BE INSTALLED. EXISTING WIRING TO REMAIN. REWORKED/MODIFIED PROVIDE NEW LIGHT FIXTURE(S) AND CONTROLS AS SHOWN ON LIGHTING PLAN E-2. NO JUNCTION BOXES, OR SPLICES SHALL BE PERMITTED ABOVE NEW DRYWALL CEILING.
3. RELOCATE EXISTING FIRE ALARM DEVICE IN NEW DRYWALL CEILING.
4. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES IN SPACE. PROVIDE NEW LIGHT FIXTURES. REFER TO LIGHTING PLAN DWG. E-2 FOR ADDITIONAL WORK.
5. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND CONTROLS IN ROOM. MODIFY/EXTEND EXISTING WIRING TO INSTALL NEW LIGHT FIXTURES AND CONTROLS. REFER TO LIGHTING PLAN E-2 FOR ADDITIONAL WORK.
6. DISCONNECT AND REMOVE EXISTING SMOKE DETECTOR. PROVIDE NEW DETECTOR AS SHOWN ON POWER PLAN E-3.
7. DISCONNECT AND REMOVE EXISTING PULL STATION. DOOR TO BE REMOVED.
8. DISCONNECT AND REMOVE EXISTING ABANDON CONVEYOR CONTROL PANEL.
9. REMOVE EXISTING JUNCTION BOX, CONDUIT AND WIRING.
10. E.C. TO PROVIDE MISCELLANEOUS STEEL TO MOUNT AND SECURE EXISTING PANEL TO FLOOR TO ALLOW WALL TO BE REMOVED. PROVIDE STEEL FROM FLOOR TO STRUCTURE TO SUPPORT EXISTING VERTICAL & HORIZONTAL CONDUITS. E.C. SHALL REMOVE ALL WIRING FROM CIRCUIT BREAKERS FOR ABANDON CIRCUITS.
11. DISCONNECT AND REMOVE EXISTING WIRING DEVICE.
12. E.C. SHALL RE-LAMP AND RE-BLAST EXISTING LIGHT FIXTURE(S)
13. E.C. SHALL PROVIDE BOX EXTENSION FOR WIRING DEVICE TO ALLOW NEW WALL COVERING.
14. DISCONNECT EXISTING HVAC UNIT FOR RELOCATION. MODIFY / EXTEND EXISTING 20AMP 120V CIRCUIT AS REQUIRED TO NEW LOCATION. SEE DWG. E-3 FOR NEW LOCATION.
15. DISCONNECT EXISTING HVAC UNIT FOR REMOVAL. REMOVE ALL ASSOCIATED CONDUIT WIRING BACK TO SOURCE.
16. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND CONTROLS. REMOVE EXISTING CONDUIT & WIRING. REFER TO DWG. E-2 FOR NEW LIGHT FIXTURE CONTROLS AND CIRCUITING.
17. EXISTING HIGH BAY FLORESCENT LIGHT FIXTURES TO REMAIN WEST OF ROOM SPACE BOUNDARY LINE. CIRCUIT FROM FIXTURES TO PANEL TO REMAIN. UNDER STORAGE AREA ALTERNATE BID, BOUNDARY LINE SHALL SHIFT FURTHER WEST. ADDITIONAL EXISTING FIXTURES WILL BE REQUIRED TO BE REMOVED.
18. EXISTING EXIT SIGN TO BE DISCONNECTED, SALVAGED AND REINSTALLED. CONNECT TO LINE SIDE OF ROOM LIGHTING CIRCUIT.
19. DISCONNECT AND REMOVE EXISTING EXIT SIGN.

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



**CONSOLIDATED ENGINEERS**  
 1022 James Drive  
 Leesport, PA 19553  
 Tel: 610/916-1000 Fax: 610/916-1010  
 Internet: www.consolidatedengineers.com

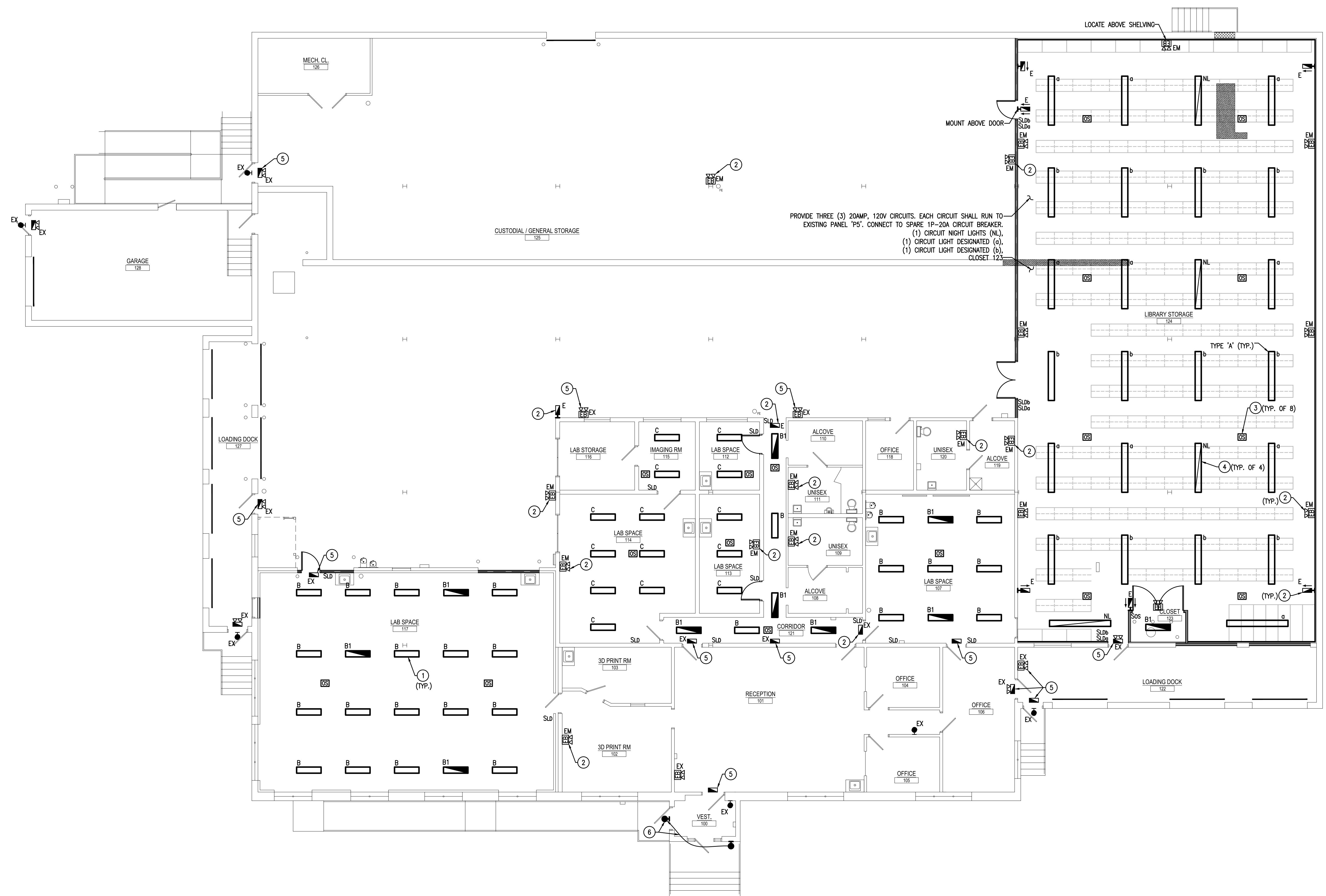
**ISSUED FOR PERMIT**  
**MAY 10, 2021**



**AEM ARCHITECTS INC.**  
 3700 PERKOTOMEN AVENUE, READING, PA 19606-2785  
 Phone: 610/779-3320 Fax: 610/779-8022 www.aem-arch.com

**ELECTRICAL DEMO**  
 RENOVATIONS TO THE  
 ROCKLAND ST WAREHOUSE  
 ALBRIGHT COLLEGE  
 1041 EAST ROCKLAND STREET, READING, PA 19604

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.  
 JOB NO.: 21006.00  
 DRAWN BY: JS  
 DATE: 05/10/2021



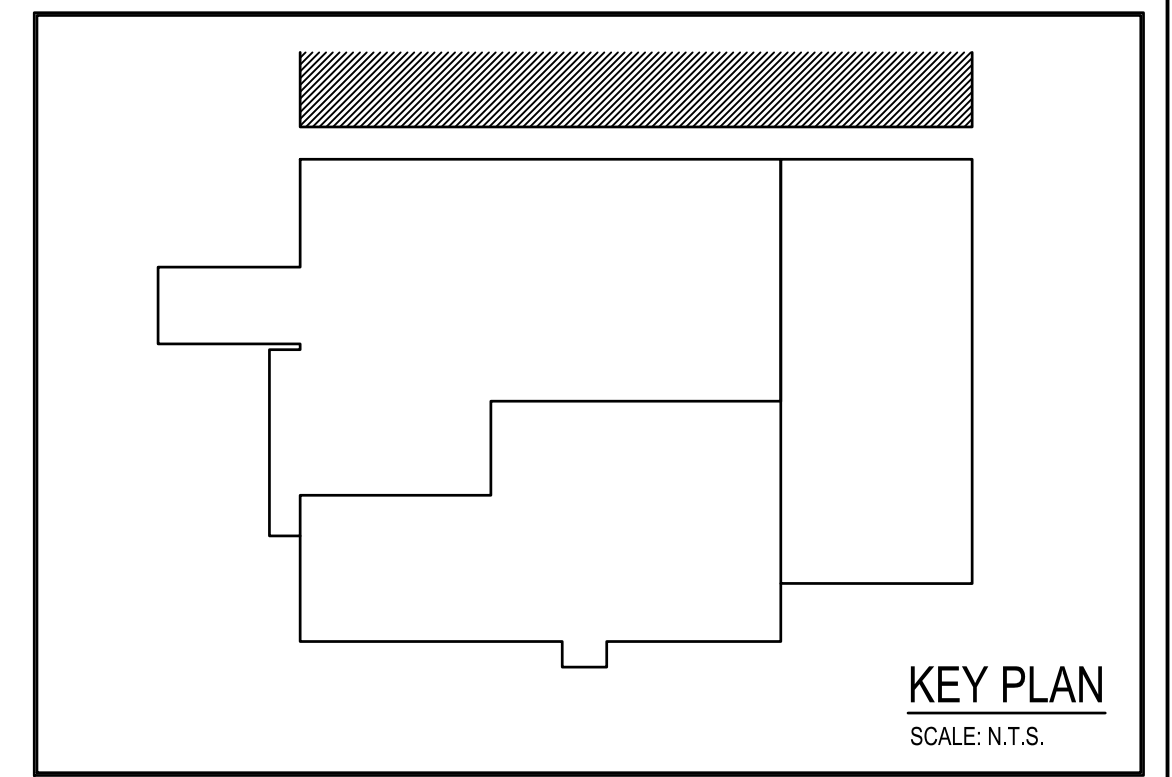
**ELECTRICAL LIGHTING PLAN**  
SCALE: 1/8" = 1'-0"

**DRAWING NOTES:**

- PENDANT MOUNT LIGHT FIXTURES EVEN WITH BOTTOM OF DUCTWORK.
- CONNECT NEW EXIT SIGN OR EM FIXTURE TO UN-SWITCHED SIDE OF ROOM LIGHTING CIRCUIT.
- PROVIDE HIGH CEILING TYPE OCCUPANCY SENSOR.
- NIGHT LIGHT FIXTURE.
- EXISTING EXIT SIGN OR EMERGENCY BATTERY PACK TO REMAIN. CONNECT TO LINE SIDE OF ROOM LIGHTING CIRCUIT.
- RELOCATE EXISTING EMERGENCY REMOTE HEAD TO EMERGENCY EGRESS DOOR PATCH OPENING IN WALL.

LIGHTING FIXTURE SCHEDULE							THE APPROVED SUBSTITUTES ARE APPROVED AS MANUFACTURERS ONLY. FIXTURES MUST MEET DRAWING AND SPECIFICATION REQUIREMENTS.
TYPE	MANUFACTURER	CATALOG NUMBER	WATTS	VOLTS	MOUNTING	APPROVED SUBSTITUTE	REMARKS
A	MERCURY LIGHTING	LW488003SKHTA1%	69	120VOLT	PENDANT CHAIN	LITHONIA	PROVIDE CHAIN KIT
B	MERCURY LIGHTING	LW4445003SKHTA1%	39	120VOLT	SURFACE CHAIN	LITHONIA	PROVIDE CHAIN KIT
B1	MERCURY LIGHTING	LW4445003SKHTA1%, EM10	39	120VOLT	SURFACE CHAIN	LITHONIA	PROVIDE CHAIN KIT
C	LITHONIA	EPANL1X44000LMB0CR135KMINI	39	120VOLT	SURFACE	DAYBRITE	PROVIDE SURFACE MOUNTING KIT
E	LITHONIA	EXRLEDEL1M6	1	120VOLT	UNIVERSAL	NOTE #1	NOTE #2, EMERGENCY BATTERY PACK
EM	LITHONIA	ELM6L1TP-DUAL HEAD	205.3	120VOLT	WALL/CEILING	DAYBRITE	EMERGENCY BATTERY PACK

**LIGHTING FIXTURE SCHEDULE NOTES:**  
 1. FIXTURE IS ALBRIGHT STANDARD. NO SUBSTITUTIONS PERMITTED.  
 2. PROVIDE QUANTITY OF SINGLE / DOUBLE FACE SIGNS REQUIRED.



**ISSUED FOR PERMIT**  
**MAY 10, 2021**

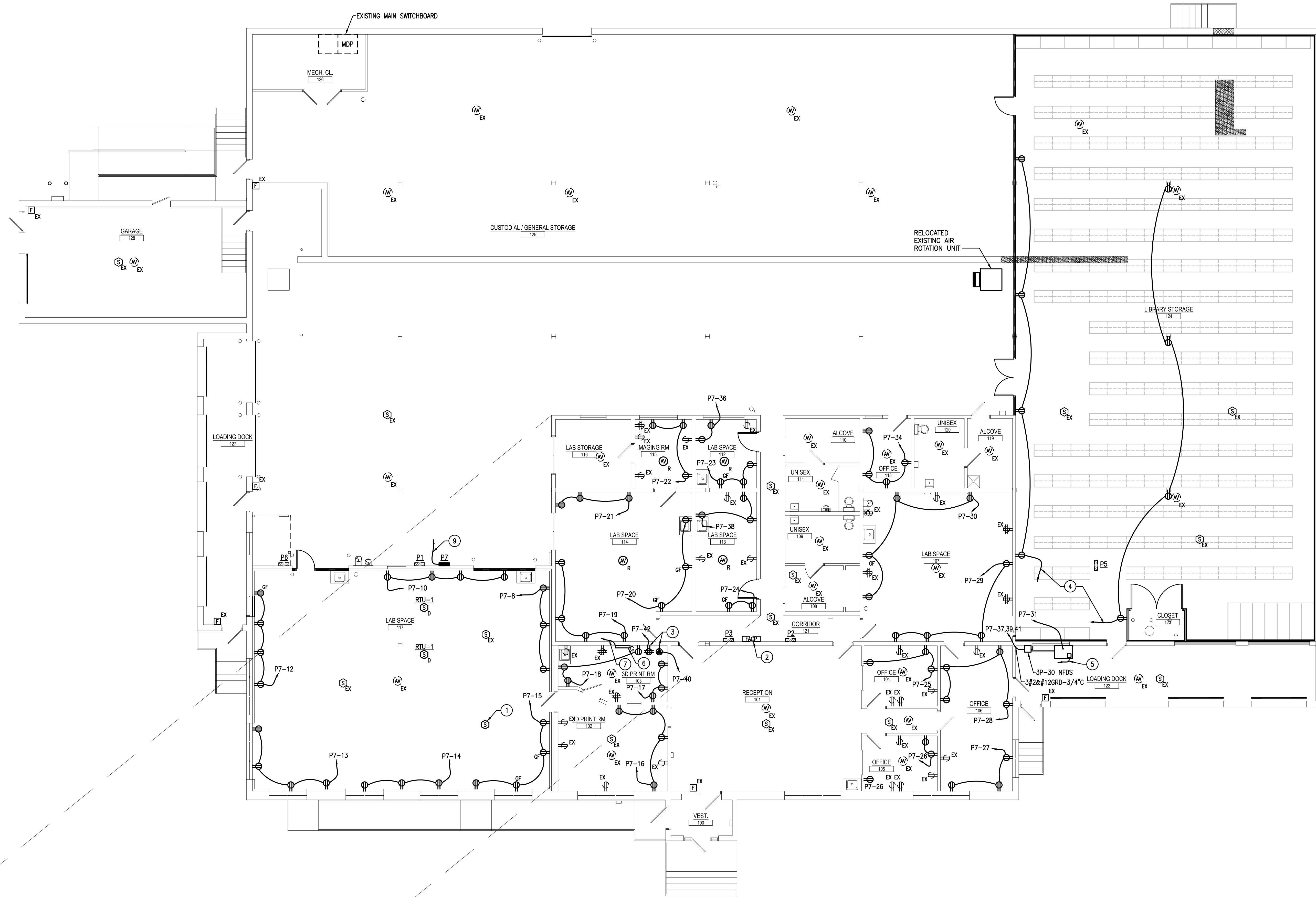
**CONSOLIDATED ENGINEERS**  
1022 James Drive  
Leesport, PA 17033  
Tel: 610-916-1000 Fax: 610-916-1010  
Internet: www.consolidatedengineers.com

**AEM ARCHITECTS, INC.**  
3700 PERKOWEN AVENUE, READING, PA 19606-2785  
Phone: 610-779-3320 Fax: 610-779-8022 www.aem-arch.com

**ELECTRICAL LIGHTING PLAN**  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
101 EAST ROCKLAND STREET, READING, PA 19604

JOB NO.: 21006.00  
DRAWN BY: JS  
DATE: 05/10/2021

**E-2**



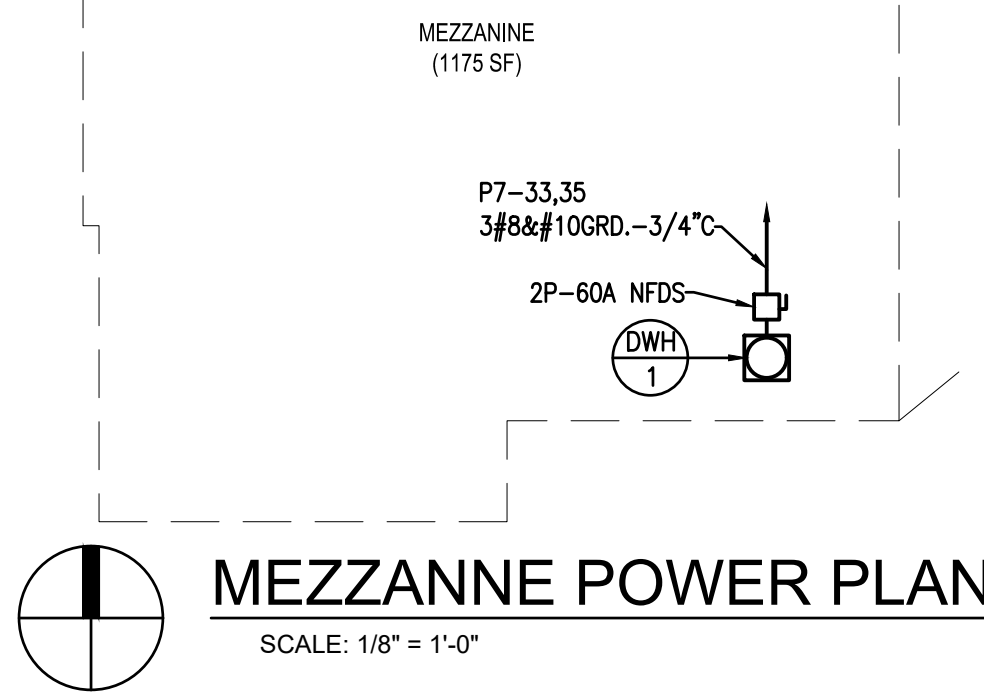
**ELECTRICAL POWER PLAN**  
SCALE: 1/8" = 1'-0" (8)

**DRAWING NOTES:**

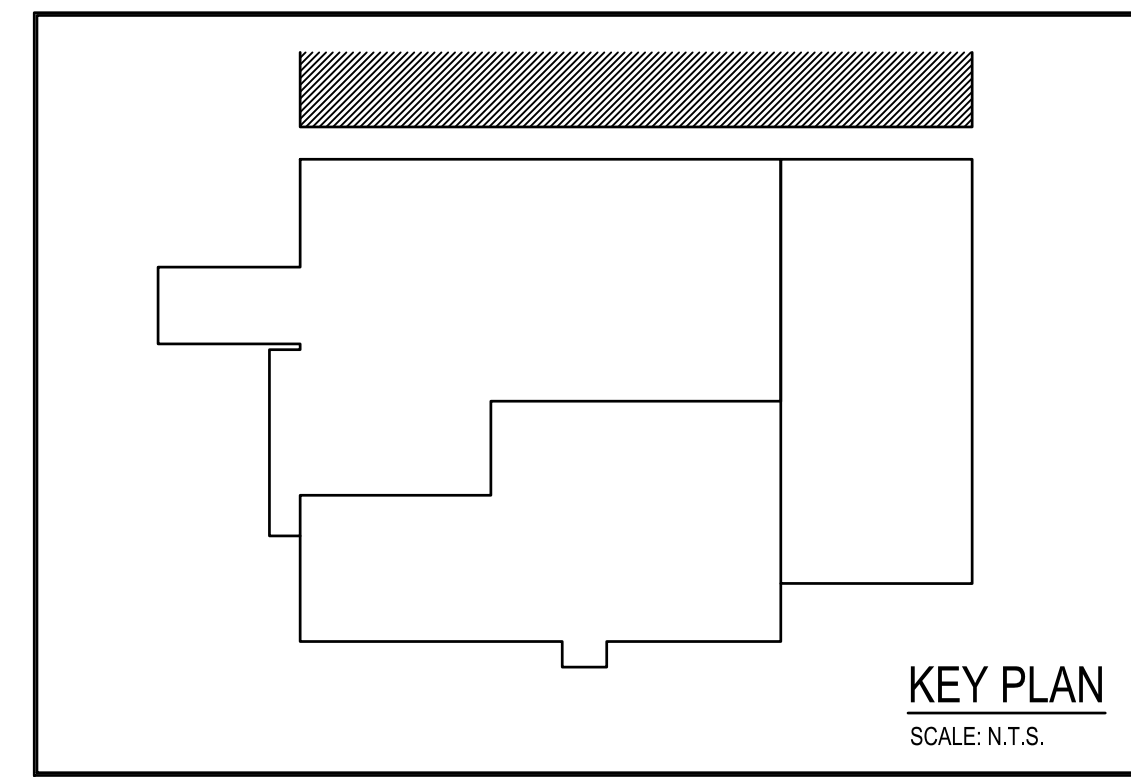
1. PROVIDE NEW FIRE ALARM DEVICE.
2. EXISTING ADEMCO FIRE ALARM/SECURITY CONTROL PANEL TO REMAIN. E.C. SHALL EXPAND EXISTING SYSTEM TO ADD NEW FIRE ALARM DEVICES. CONTACT KEVIN QUIMBY @ "SECURITY FIRST" (484) 345-8027. E.C. TO TEST AND REPROGRAM SYSTEM AT END OF PROJECT TO MEET CITY OF READING REQUIREMENTS.
3. COORDINATE DATA RACK RECEPTACLES WITH OWNER PRIOR TO INSTALL.
4. RUN 2#12&#12GRD-3/4" TO EXISTING PANEL "P5". CONNECT TO EXISTING 1P-20A SPARE CIRCUIT BREAKER.
5. PROVIDE FIRE ALARM SYSTEM. CONNECTION TO LIBRARY STORAGE ROOM DRY SPRINKLER SYSTEM PANEL.
6. PROVIDE WALL MOUNTED GROUND BAR. AT DATA RACK PROVIDE 4/OCU GROUND CONNECTION TO RACK. VERIFY EXACT LOCATION OF RACK WITH OWNER PRIOR TO ROUGH-IN.
7. 4/0 COPPER GROUND TO MAIN SERVICE SWITCH BARD. RUN OVERHEAD THRU STORAGE AREA.
8. THE OWNER RESERVES THE RIGHT TO MOVE ANY RECEPTACLE SHOWN WITHIN EACH ROOM PRIOR TO ROUGH IN AT NO ADDITIONAL CAST TO THE OWNER. E.C. SHALL HAVE OWNER SIGN OFF ON RECEPTACLE LOCATIONS PRIOR TO INSTALL.
9. RUN 4#500KCMIL&#22GRD.4" OVERHEAD TO EXISTING MDP. CONNECT TO EXISTING 400A CIRCUIT BREAKER MAKE SPARE OF DEMOLITION OF EXISTING PANEL "P4". PROVIDE CONNECTIONS.

REMARKS AND LOCATION		LOAD	BKR	CKT	CKT	BKR	LOAD	REMARKS AND LOCATION
RTU-1		8352	50	1	2	40	6150	RTU-2
			3	3	4	3		
			5	5	6	3		
RTU-3		4968	30	7	8	20	540	LAB SPACE 117 RECPT'S
			9	10	20	720		LAB SPACE 117 RECPT'S
			11	12	20	720		LAB SPACE 117 RECPT'S
			13	14	20	540		LAB SPACE 117 RECPT'S
			15	16	20	720		3D PRINT RM 102 RECPT'S
			17	18	20	540		3D PRINT RM 103 RECPT'S
			19	20	540			LAB SPACE 114 RECPT'S
			21	22	20	540		IMAGE RM 115 RECPT'S
			23	24	20	900		LAB SPACE 112 RECPT'S
			25	26	20	540		OFFICE 105 RECPT'S
			27	28	20	720		OFFICE 106 RECPT'S
			29	30	20	720		LAB SPACE 107 RECPT'S
			31	32	20	-		SPARE
DWH-1		-	40	33	34	20	540	OFFICE 118 RECPT'S
			35	36	20	360		LAB SPACE 112 RECPT'S
			37	38	20	360		LAB SPACE 113 RECPT'S
COMPRESSOR		2500	39	40	20	1500		RM 103 DATA RACK 30A RECPT
			41	42	20	180		RM 103 DATA RACK RECPT
SPARE		-	43	44	20	-		SPARE
SPARE		-	45	46	20	-		SPARE
SPARE		-	47	48	20	-		SPARE
SPARE		-	49	50	20	-		SPARE
BLANK SPACE		-	51	52	20	-		BLANK SPACE
		-	53	54	20	-		
		-	55	56	20	-		
		-	57	58	20	-		
		-	59	60	20	-		

GF - PROVIDE CIRCUIT BREAKER WITH GROUND FAULT CIRCUIT INTERRUPTER  
HL - PROVIDE CIRCUIT BREAKER WITH HANDLE LOCK ON/OFF ACCESSORY



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



**KEY PLAN**  
SCALE: N.T.S.

**ISSUED FOR PERMIT**  
**MAY 10, 2021**

**CONSOLIDATED ENGINEERS**  
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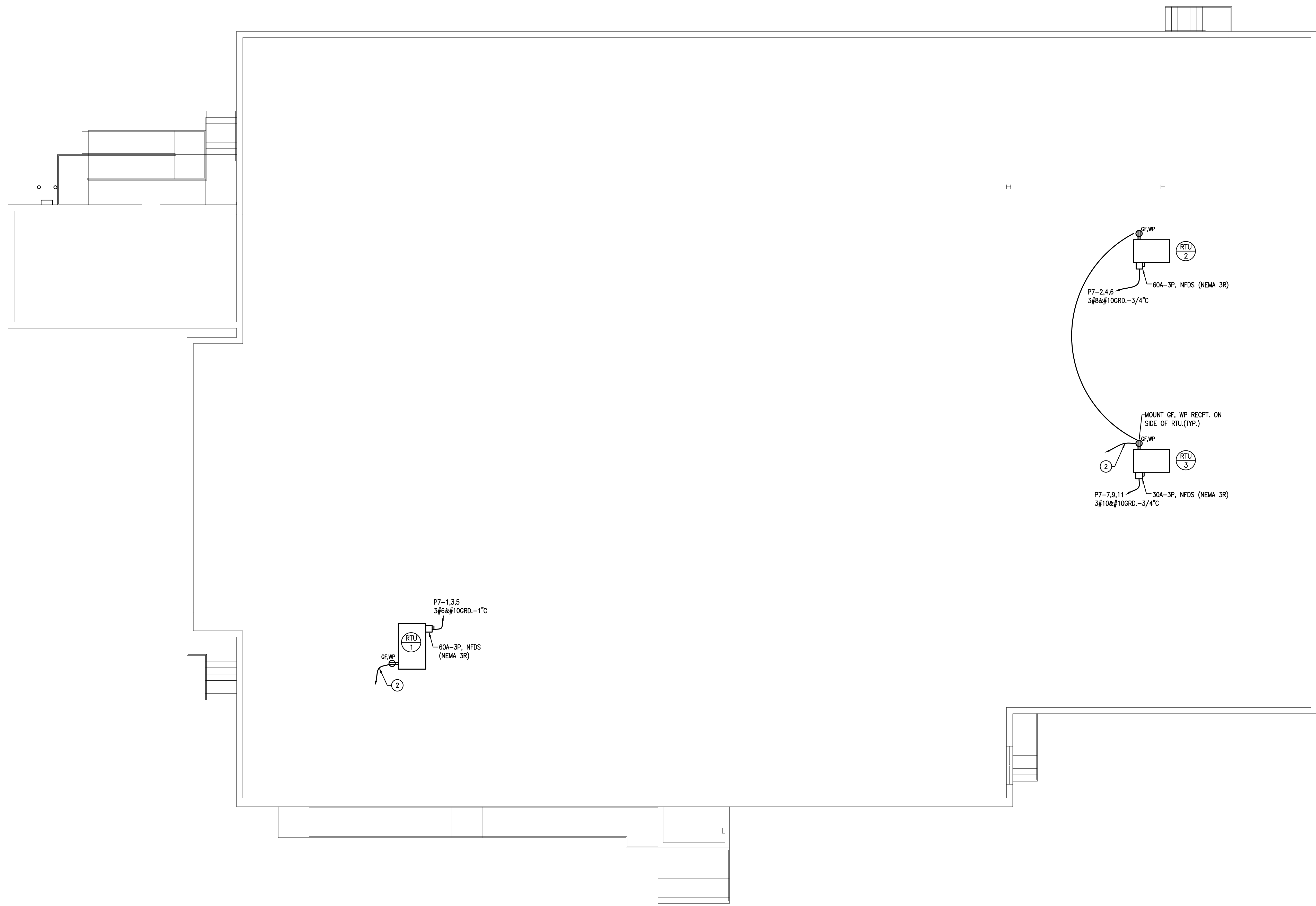
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**ELECTRICAL POWER PLAN**  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
1041 EAST ROCKLAND STREET, READING, PA 19604

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

JOB NO.: 21066.00  
DRAWN BY: JS  
DATE: 05/10/2021

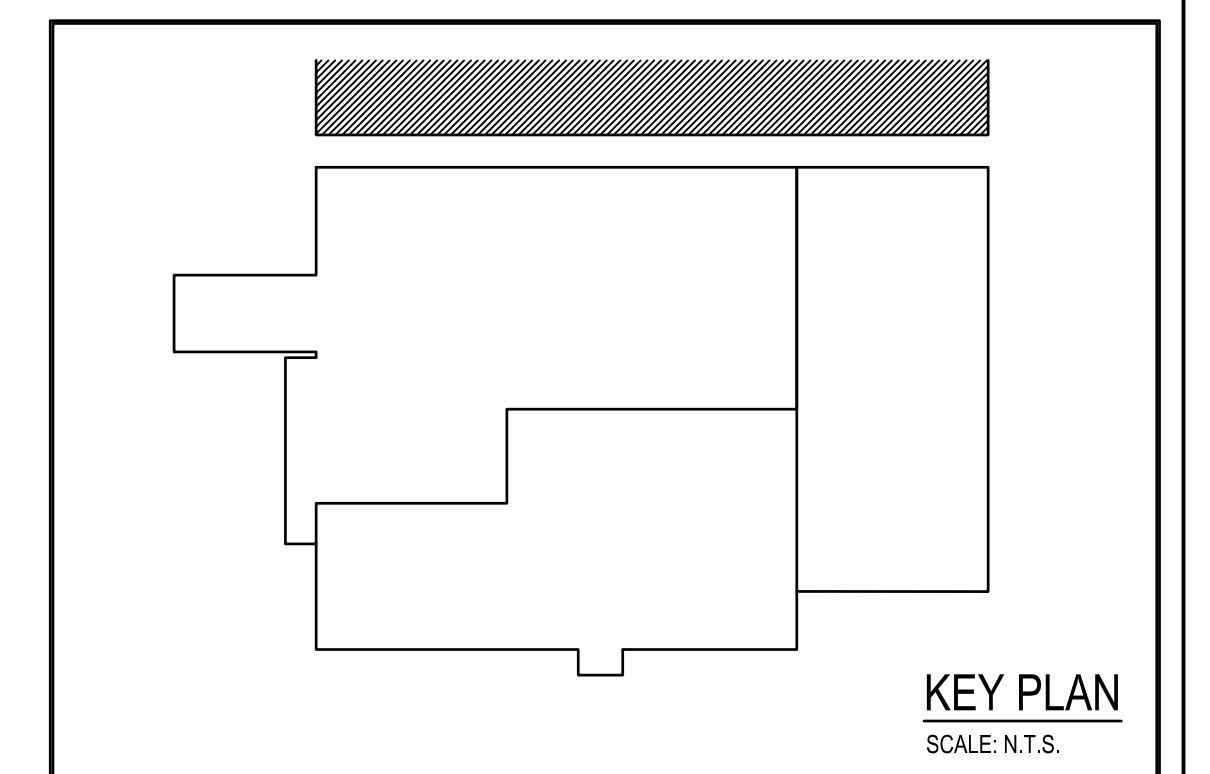
**E-3**



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

**DRAWING NOTES:**

1. CONNECT TO GENERAL RECEPTACLE CIRCUIT FLOOR BELOW
2. CONNECT TO GENERAL RECEPTACLE CIRCUIT FLOOR BELOW (P7-10).



**ELECTRICAL ROOF POWER PLAN**  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
**ALBRIGHT COLLEGE**  
101 EAST ROCKLAND STREET, READING, PA 19604

ALL DIMENSIONS AND EXISTING CONDITIONS  
SHALL BE CHECKED AND VERIFIED  
BY THE CONTRACTOR AT THE SITE.  
JOB NO.: 21006.00  
DRAWN BY: JS  
DATE: 05/10/2021



## ELECTRICAL LEGEND

(REFER TO SPECIFICATIONS FOR MORE INFORMATION)  
NOTE: DIMENSIONS ARE TO CENTER OF DEVICE, UNO.

## LIGHTING FIXTURES

(REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND TYPE)

SYMBOL	DESCRIPTION
	- LED LIGHTING FIXTURE.
	- LIGHTING FIXTURE - NORMAL AND EMERGENCY POWER.
	- LIGHTING FIXTURE - EMERGENCY POWER ONLY.
	- LIGHTING FIXTURE
	- INCANDESCENT, FLUORESCENT, H.I.D. OR LED LIGHTING FIXTURE.
	- WALL MOUNTED LIGHTING FIXTURE.
	- EXIT LIGHTING FIXTURE - NORMAL AND EMERGENCY POWER - ARROW(S) INDICATE DIRECTIONAL MARKERS.
	- EMERGENCY BATTERY UNIT WITH 2 LAMPS.
	- PHANTOM SYMBOL INDICATES EXISTING ITEM OR AS NOTED ON DRAWINGS.
	- BARE STRIP FLUORESCENT LIGHTING FIXTURE.

## SWITCHES

SYMBOL	DESCRIPTION
S	- SINGLE POLE SWITCH - 20 AMP - MOUNT 46" AFF.
S2	- 2 POLE SINGLE THROW SWITCH - 20 AMP - MOUNT 46" AFF.
S3	- THREE WAY LIGHT SWITCH - 20 AMP - MOUNT 46" AFF.
S4	- FOUR WAY LIGHT SWITCH - 20 AMP - MOUNT 46" AFF.
Sk	- KEY OPERATED LIGHT SWITCH - 20 AMP - MOUNT 46" AFF.
SxSb	- SUB-LETTERS INDICATE INDIVIDUAL BALLAST WIRING - MOUNT 46" AFF.
SL	- LOW VOLTAGE ON/OFF SWITCH. PROVIDE SINGLE BUTTON STATION, UNO - MOUNT 46" AFF. PROVIDE LOW VOLTAGE WIRING REQUIRED.
Slp	- LOW VOLTAGE DIMMER STATION - MOUNT 46" AFF. PROVIDE LOW VOLTAGE WIRING REQUIRED.
Sos	- OCCUPANCY SENSING WALL SWITCH - SEE SPECIFICATIONS - MOUNT 46" AFF.
OS	- LOW VOLTAGE CEILING/WALL MOUNTED OCCUPANCY SENSING UNIT - SEE SPECIFICATIONS. VERIFY LOCATION OF SENSOR WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE POWER PACK AND LOW VOLTAGE WIRING REQUIRED.

## RECEPTACLES

SYMBOL	DESCRIPTION
	- DUPLEX RECEPTACLE - 20 AMP - 120 VOLT 18" AFF.
	- SINGLE RECEPTACLE - 20 AMP - 120 VOLT 18" AFF.
EW	- ELECTRIC WATER COOLER RECEPTACLE - TYPE PER MANUFACTURER'S RECOMMENDATIONS - COORDINATE HEIGHT WITH EWC.
	- GROUND FAULT RECEPTACLE - INDIVIDUAL TYPE - 18" ABOVE FINISHED FLOOR.
WP	- DUPLEX RECEPTACLE (WITH "WR" LABEL) WITH WEATHER PROOF COVER - FLUSH - 18" AFF.
USB	- DUPLEX RECEPTACLE - 20 AMP - 120 VOLT WITH (2) USB CHARGING PORTS 18" AFF. LEVITON SERIES #T5832 OR EQUIV.
	- QUAD OUTLET - 120V - 20 AMP EACH - TWO DUPLEX TOGETHER WITH ONE COVER PLATE - 18" AFF.
	- SPECIAL OUTLET - SIZE AND TYPE INDICATED - 18" AFF.
	- DUPLEX RECEPTACLE - 20AMP, 120VOLT - ((C)) INDICATES MOUNTED ABOVE COUNTER OR HEIGHT ABOVE BACKSPLASH. COORDINATE EXACT LOCATION WITH ARCHITECT AND CASEWORK DRAWINGS.)
	- EMPTY OUTLET BOX WITH BLANK STAINLESS STEEL COVER PLATE AND 1 1/4" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING.

## FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
FA	- FIRE ALARM AUDIO UNIT - 18" BELOW FINISHED CEILING (8" ABOVE FINISHED FLOOR MAX).
A	- FIRE ALARM AUDIO UNIT - (FLUSH CEILING).
VA	- FIRE ALARM VISUAL UNIT - PROVIDE 15 CD UNLESS NUMBER BESIDE. PROVIDE THIS RATING.
AV	- COMBINATION FIRE ALARM AUDIO/ VISUAL UNIT CEILING MOUNT. PROVIDE 15 CD UNLESS NUMBER BESIDE. PROVIDE THIS RATING.
FT	- FIRE ALARM PULL STATION - 42" ABOVE FINISHED FLOOR TO THE HANDLE.
30 FT	- FIRE ALARM VISUAL UNIT-80" AFF OR 6" BELOW FIN. CEILING (WHICHEVER IS LOWEST) TO BOTTOM OF BOX, UNLESS NOTED OTHERWISE. NUMBER BESIDE UNIT INDICATES CANDELA RATING OTHER THAN 15.
	- HEAT DETECTOR.
	- SMOKE DETECTOR.
	- SMOKE / CARBON MONOXIDE DETECTOR - CEILING OR SURFACE ABOVE CEILING MOUNT.
	- DUCT MOUNTED SMOKE DETECTOR WITH REMOTE LED INDICATOR - FURNISHED AND WIRED BY EC - DETECTOR INSTALLED BY MC. REMOTE INDICATOR INSTALLED IN CEILING/WALL BY E.C. AS PER MANUFACTURER REQUIREMENTS. INSTALLATION IN DUCT.
RT	- REMOTE TEST STATION FOR DUCT DETECTOR.
FS	- SPRINKLER FLOW SWITCH - SUPPLIED AND WIRED BY EC; INSTALLED BY OTHERS.
TS	- SPRINKLER TAMPER SWITCH - SUPPLIED AND WIRED BY EC; INSTALLED BY OTHERS.
FACP	- FIRE ALARM CONTROL PANEL. PROVIDE 120V POWER FROM NEAREST NORMAL 120V POWER PANEL.
FAX	- FIRE ALARM ANNUNCIATOR - VERIFY FLUSH OR SURFACE MOUNTING.
30 AV	- COMBINATION FIRE ALARM AUDIO/ VISUAL UNIT - 80" AFF OR 6" BELOW FIN. CEILING (WHICHEVER IS LOWEST) TO BOTTOM OF BOX, UNLESS NOTED OTHERWISE. NUMBER BESIDE UNIT INDICATES CANDELA RATING OTHER THAN 15.
EG	- ELECTRIC GONG - FURNISHED BY FIRE PROTECTION CONTRACTOR; INSTALLED AND WIRED BY E.C. PROVIDE POWER AS REQUIRED FROM NEAREST 120V N/E PANEL.
KB	- KNOX BOX - CONNECT TO FIRE ALARM SYSTEM.

## WIRING

SYMBOL	DESCRIPTION
	- HOMERUN TO APPLICABLE PANEL - WIRING SHALL BE #12 AWG WITH SEPARATE GROUND WIRE IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
	- WIRING - CONCEALED AS SPECIFIED OR AS OTHERWISE NOTED.
	- EQUIPMENT CONNECTED TO SAME CIRCUIT EXCEPT SEPARATELY CONTROLLED.
	- NL - NIGHT LIGHT CIRCUIT.
	- INDICATES DRAWING NOTE NUMBER.
	- INDICATES DEMOLITION NOTE NUMBER.

## ABBREVIATIONS

SYMBOL	DESCRIPTION
RTU	- ROOF TOP UNIT.
AFF	- ABOVE FINISHED FLOOR
AFG	- ABOVE FINISHED GRADE
EX	- EXISTING ITEM TO REMAIN
WP	- WEATHER PROOF
NFDS	- NON FUSED DISCONNECT SWITCH
FDS	- FUSED DISCONNECT SWITCH

NOTE: THE ABOVE ELECTRICAL LEGEND IS STANDARD. SOME ITEMS LISTED ARE NOT NECESSARILY USED ON THIS PROJECT. ALL ITEMS LISTED SHALL BE PROVIDED BY THIS CONTRACTOR UNLESS NOTED OTHERWISE.

## EQUIPMENT

SYMBOL	DESCRIPTION
	- JUNCTION BOX - PROVIDE FINAL CONNECTION TO EQUIPMENT.
	- MOTOR - SIZE AND TYPE AS INDICATED - BY OTHERS. PROVIDE FINAL CONNECTIONS.
	- MOTOR CONTROLLER - BY OTHERS. PROVIDE FINAL CONNECTIONS.
	- PANELBOARD.
	- EXISTING PANELBOARD.
ST	- THERMAL SWITCH MANUAL STARTER WITH THERMAL PROTECTION AND HAND/AUTO SWITCH TO ALLOW STARTER CONTROL FROM REMOTE SOURCE. HAND/AUTO SWITCH ONLY REQUIRED FOR EE-CIRCULATING PUMPS. SQUARE D CLASS 2510 SERIES WITH HANDLE GUARD/LOCK OFF ATTACHMENT MOUNT ON OR ADJACENT TO EQUIPMENT.
	- NON-FUSED DISCONNECT SWITCH - SIZE AND TYPE INDICATED.
	- FUSED DISCONNECT SWITCH - SIZE AND TYPE INDICATED (PROVIDE FUSES AS PER EQUIPMENT MANUFACTURERS REQUIREMENTS).
	- CABLE REEL DROP - APPLETON RLS340 SERIES WITH RE-PPB POWER OUTLET BOX (#14 WIRE, 15 AMP).
	- EXHAUST FAN - ROOF MOUNTED - PROVIDED BY OTHERS. PROVIDE FINAL CONNECTIONS.
	- CEILING FAN.

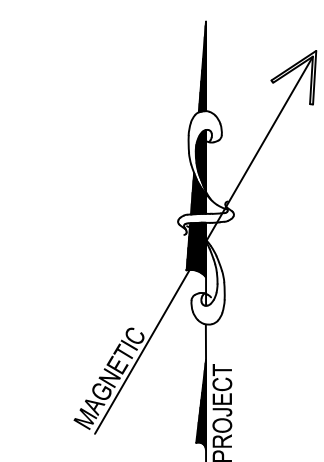
## GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE EXISTING FACILITY AND ALL CONTRACT DRAWINGS TO DETERMINE THE EXTENT OF THE ELECTRICAL DEMOLITION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE JOB SITE PRIOR TO BIDDING THE PROJECT TO FULLY UNDERSTAND ELECTRICAL DEMOLITION REQUIRED. NO CHANGE ORDERS WILL BE ACCEPTED AFTER BID FOR ELECTRICAL DEMOLITION. THE CONTRACTOR SHALL COORDINATE THE DEMOLITION WITH ALL TRADES. ELECTRICAL DEMOLITION SHALL INCLUDE ALL WORK AS OUTLINED BELOW. COORDINATE ALL DEMOLITION WITH CONSTRUCTION SCHEDULE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL OF THE PLUMBING, HEATING, SPRINKLER AND ARCHITECTURAL DRAWINGS FOR THE EQUIPMENT BEING REMOVED. ALL EXISTING PLUMBING, HEATING AND ARCHITECTURAL EQUIPMENT ON THOSE DRAWINGS INDICATED TO BE REMOVED, SHALL BE ELECTRICALLY DISCONNECTED BY THE ELECTRICAL CONTRACTOR. ALL EXISTING PLUMBING, HEATING AND ARCHITECTURAL EQUIPMENT SHOWN ON THOSE DRAWINGS TO REMAIN, SHALL REMAIN ELECTRICALLY CONNECTED UNLESS NOTED OTHERWISE ON THE ELECTRICAL DRAWINGS.
3. REMOVE ALL EXISTING CONDUIT AND WIRING BEING ABANDONED.
4. RELOCATE OR EXTEND EXISTING CIRCUITS NOT BEING ABANDONED, AS REQUIRED ON A PERMANENT BASIS TO ACCOMMODATE NEW WORK AND MAINTAIN CIRCUIT INTEGRITY.
5. CONTRACTOR SHALL PATCH WALLS, FLOORS, CEILINGS, ETC. TO MATCH ADJACENT SURFACES WHERE EXISTING EQUIPMENT IS BEING REMOVED. PATCHING SHALL BE PROVIDED FOR ALL OPENINGS, INCLUDING, BUT NOT LIMITED TO OPENINGS FOR CONDUITS, BOXES, ANCHORS, ETC. PATCHING SHALL INCLUDE EVERYTHING, EXCEPT FINAL FINISH. IN LIEU OF PATCHING, CONTRACTOR MAY USE BLANK WALL PLATES FOR STANDARD SIZE SINGLE AND MULTI-GANG DEVICE BOXES (I.E. SWITCH AND RECEPTACLE BOXES). COVER PLATES SHALL MATCH OTHER DEVICE PLATES IN THE AREA IN BOTH MATERIAL AND FINISH. CONTRACTOR SHALL REMOVE ALL RECESSED BOXES FOR LARGER NON-STANDARD SIZE BOXES (I.E., FIRE ALARM PULLS AND BELLS, CLOCKS, SPEAKERS, PANELBOARDS, ETC.) AND PATCH SURFACES.
6. THE OWNER SHALL HAVE FIRST CHOICE OF ANY EXISTING EQUIPMENT OR MATERIALS BEING REMOVED. THE CONTRACTOR SHALL DELIVER ITEMS TO BE SALVAGED BY THE OWNER TO DESIGNATED STORAGE AREA ON THE JOB SITE. ALL EQUIPMENT AND MATERIALS RECEIVED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR SHALL REMOVE THESE ITEMS FROM THE SITE AND PROPERLY DISPOSE OF THEM.
7. THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES AND ASSOCIATED WIRING IN AREAS WHERE NEW FIXTURES ARE SHOWN OR OTHERWISE NOTED.
8. WHERE DEMOLISHED ITEMS REVEAL UNEVEN CONSTRUCTION, INTERRUPTED FINISHES, ATTACHMENT HOLES AND OTHER CONDITIONS THAT DO NOT MATCH EXISTING ADJACENT FINISH CONSTRUCTION, PATCH TO MATCH EXISTING ADJACENT FINISHES.

## GENERAL ELECTRICAL NOTES:

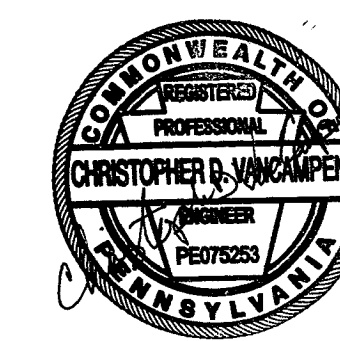
(APPLY TO ALL SHEETS)

1. THE CONTRACTOR SHALL PROVIDE ALL CIRCUITS (FEEDER AND BRANCH) WITH AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH N.E.C. TABLE 250-122.
2. CONDUIT SLEEVES MUST BE PROVIDED FOR ALL LOW VOLTAGE WIRING RUN IN OR THROUGH WALLS. IN ROOMS WITHOUT CEILINGS, LOW VOLTAGE WIRING MUST BE RUN IN CONDUIT. NO EXPOSED LOW VOLTAGE WIRING WILL BE PERMITTED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY MISCELLANEOUS STEEL REQUIRED FOR MOUNTING ELECTRICAL EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE TO SIZE STEEL AND INSTALL PROPERLY FOR THE LOAD INTENDED.
4. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS AND DETAILS/ ELEVATIONS TO COORDINATE THE EXACT LOCATION OF ALL ELECTRICAL DEVICES OR EQUIPMENT TO BE INSTALLED IN CASEWORK, CABINETS, GENERAL AREAS, ETC.. DRAWINGS SHALL NOT BE SCALED.
5. EACH TRADE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE AVAILABLE SPACE IN THE CONCEALED AREAS OF THE STRUCTURE. HE MUST COORDINATE ALL THE WORK TO BE DONE AND EQUIPMENT TO BE INSTALLED IN ADVANCE AND PRIOR TO INSTALLING ANY SYSTEM OR PORTION THEREOF. COORDINATE WITH FINAL CASEWORK LAYOUTS. ANY CONTRACTOR WHO FAILS TO COMPLY SHALL BEAR ALL COSTS OF EACH TRADE FOR DISCONNECTING, REMOVING AND REINSTALLING SYSTEM, EQUIPMENT OR PORTIONS THEREOF.
6. THE SPACE ABOVE ALL CEILINGS WILL BE USED AS A RELIEF AIR PLENUM. LOW VOLTAGE WIRING FOR OTHER SYSTEMS MUST BE AN APPROVED AIR PLENUM CABLE, OR RUN IN CONDUIT.
7. ALL LOW VOLTAGE WIRING, NOT INSTALLED IN CONDUIT, ABOVE CEILINGS MUST BE RUN PERPENDICULAR AND/OR PARALLEL TO BUILDING STEEL. ALL CABLES MUST BE NEATLY TRAINED AND WIRE TIED TO THE BUILDING STEEL OR INSTALLED ON J-HOOKS OR BRIDLE RINGS WITH 25% SPARE CAPACITY. CABLES THAT ARE SIMPLY DRAPED THROUGH STEEL OR RUN AT ODD ANGLES WILL HAVE TO BE REMOVED AND REINSTALLED.
8. IN EXISTING CONSTRUCTION CONDUIT MAY BE RUN EXPOSED SURFACE RACEWAY MAY BE USED AS SHOWN ON DRAWINGS OR APPROVED BY ENGINEER OR ARCHITECT. WHERE WALLS ARE SOLIDLY FILLED (I.E. WITH GROUT) THE CONTRACTOR SHALL PROVIDE SIMILAR TO WIREMOLD 7000 SERIES METALLIC RACEWAY AT NO ADDITIONAL COST TO THE OWNER. FINAL ROUTING SHALL BE APPROVED BY ENGINEER/ ARCHITECT. FINISH SELECTED BY ARCHITECT FROM COMPLETE LIST OF STANDARD FINISHES. REFER TO SPECIFICATIONS TO DETERMINE WHERE MC CABLE MAY BE USED. IN EXISTING STUD WALLS WIRING SHALL BE FINISHED IN WALLS WITH RECESSED BOXES CUT INTO WALLS.
9. OUTLETS MOUNTED BACK TO BACK AND/OR THE USE OF THROUGH BOXES IS NOT PERMITTED.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING OF EXISTING SURFACES THAT IS REQUIRED FOR HIS WORK. PATCHING SHALL INCLUDE EVERYTHING EXCEPT FINAL FINISH.
11. THE CONTRACTOR SHALL COORDINATE ALL DEVICES ASSOCIATED WITH MECHANICAL, PLUMBING AND ARCHITECTURAL EQUIPMENT INDICATED TO HAVE POWER CONNECTIONS WITH CONTRACTOR PROVIDING EQUIPMENT PRIOR TO ORDERING DEVICES AND ROUGH-INS. THE CONTRACTOR SHALL REQUEST SHOP DRAWINGS FOR ALL EQUIPMENT REQUIRING POWER BEFORE ROUGH-INS.
12. FOR WORK REQUIRED WITHIN AREAS OF THE BUILDING WHERE NO GENERAL TRADES WORK IS REQUIRED, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ALL CEILING TILES, INCLUDING INSULATION FOUND ABOVE THE CEILING TO PERFORM HIS WORK. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO NOTIFY THE OWNER/ENGINEER IN WRITING WITH DATED PHOTOGRAPHIC EVIDENCE OF ANY DAMAGED CEILING TILES PRIOR TO REMOVAL. OTHERWISE, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGED CEILING TILES WITHIN THE AREA OF WORK.
13. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROVIDE FINAL POWER CONNECTIONS TO ALL POWERED EQUIPMENT FURNISHED BY OTHER CONTRACTORS AND THE OWNER, INCLUDING, BUT NOT LIMITED TO AIR HANDLING EQUIPMENT, HEATING EQUIPMENT, COOLING EQUIPMENT, PUMPS, PLUMBING FIXTURE SENSORS, ELECTRIC WATER COOLERS, SECURITY GRILLES, ELECTRONIC SIGNAGE, LAB EQUIPMENT, ETC.
14. UNLESS NOTED OTHERWISE, LIGHT SWITCHES INDICATED IN ROOMS SHALL CONTROL THE LIGHTING WITHIN THAT ROOM. WHERE MULTIPLE SWITCHES ARE INDICATED, REFER TO THE ASSOCIATED DRAWING NOTES AND/OR SUB-LETTER DESIGNATION FOR THE LIGHTING TO BE CONTROLLED BY EACH SWITCH.
15. PROVIDE BOX EXTENSIONS WHEREVER WALL MOUNT ELECTRICAL DEVICES, INCLUDING, BUT NOT LIMITED TO RECEPTACLES, DATA JACKS, A/V CONNECTIONS, WALL SWITCHES, ETC. ARE LOCATED AT TAGBOARDS, CABINETS, CASEWORK OR OTHER WALL COVERING, AND CANNOT BE LOCATED ADJACENT DUE TO SPACE CONSTRAINTS, EQUIPMENT REQUIREMENTS OR DIRECT DIRECTION VIA ARCHITECT/ ENGINEER DIRECTION OR ARCHITECTURAL ELEVATIONS. THE DEVICE COVERPLATE SHALL COVER THE OPENING IN THE TAGBOARD, CABINETS, CASEWORK OR WALL COVERING TO CREATE A NICE AND NEAT FLUSH INSTALLATION.



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ELECTRICAL LEGEND AND NOTES  
REVISIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
1041 EAST ROCKLAND STREET, READING, PA 19604

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

JOB NO.: 21006.00  
DRAWN BY: JS  
DATE: 05/10/2021



# Building and Trades Permit Application

OWNER: Albright College - Brad King PHONE: 610-921-7524

ADDRESS: 1621 N. 13th Street

CITY: Reading STATE: PA ZIP CODE: 19604

EMAIL ADDRESS: bking@albright.edu ZONING APPROVAL Submitted

CONTRACTOR: Brad King ADDRESS: 1621 N. 13th Street

CITY: Reading STATE: PA ZIP CODE: 19604

CONTRACTOR PHONE: 610-921-7524

CONTRACTOR EMAIL: bking@albright.edu

### PERMIT TYPE

- BUILDING
- ELECTRICAL
- OTHER Fire Protection - Sprinkler
- PLUMBING
- MECHANICAL

**JOBSITE ADDRESS:** 1015 / 1041 East Rockland Street, Reading, PA, 19604

**DESCRIPTION OF WORK:** SUBMITTED WITH PLANS?  YES  NO

Existing building is sprinklered with a wet system. Proposing to modify existing sprinkler branch at Library Storage (room 124) to a pre-action wet system. All other areas shall remain a wet system.


### FOR CONTRACTORS ONLY

TRADES LICENSE # [ ] BPL #396267

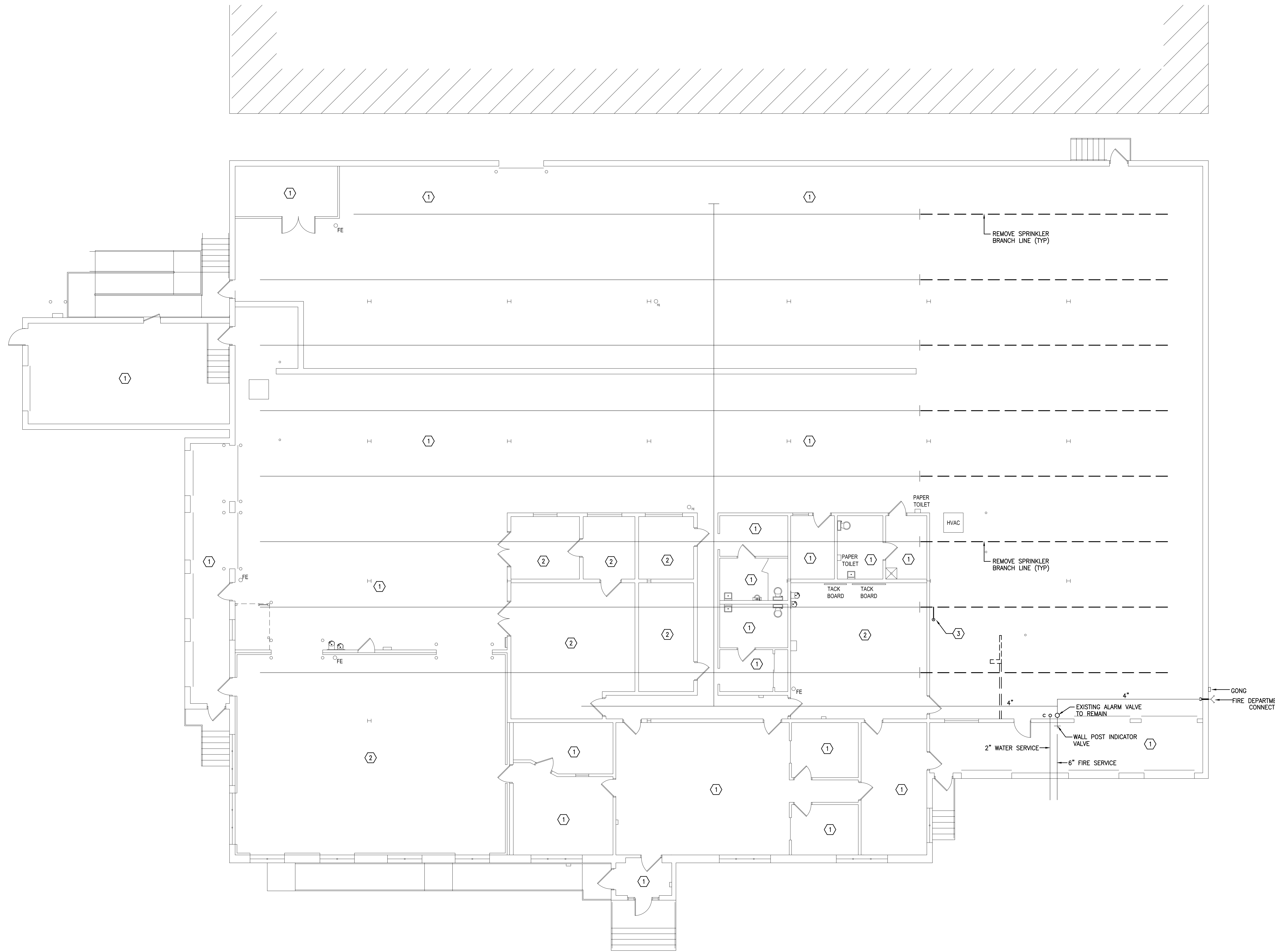
PROJECT COST (Labor + Materials) \$ 57,000.00

**PERMIT FEE** \$ 934.5

Under penalty of intentional misrepresentation and / or perjury, I declare that I have examined and / or made this application and is true and correct to the best of my knowledge and belief. I agree to construct said improvement in compliance with all provisions of the ordinances of the City of Reading and applicable Building Codes. I realize that the information I have stated herein forms a basis for the issuance of the building permit herein applied for and approval of any plans in connection therewith shall not be construed to permit any construction upon said premises or use thereof in violation of any provision of the UCC therewith. Where no work has been started within 180 days after the issuance of a permit or when more than 180 days lapses between approval of required inspections, such permit shall be void. I hereby certify that I am the owner at this address or that, for the purpose of obtaining this approval, I am acting on behalf of the owner. All contract work on this project will be done by a contractor holding valid business privilege license and contractor's license by the City of Reading.

SIGNATURE   Owner / Representative DATE: 05/10/21  
 Contractor

APPROVED BY:  DATE: 

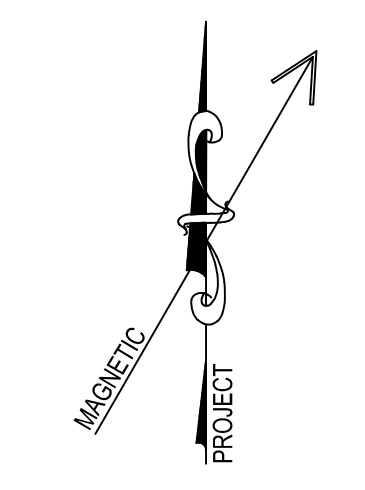
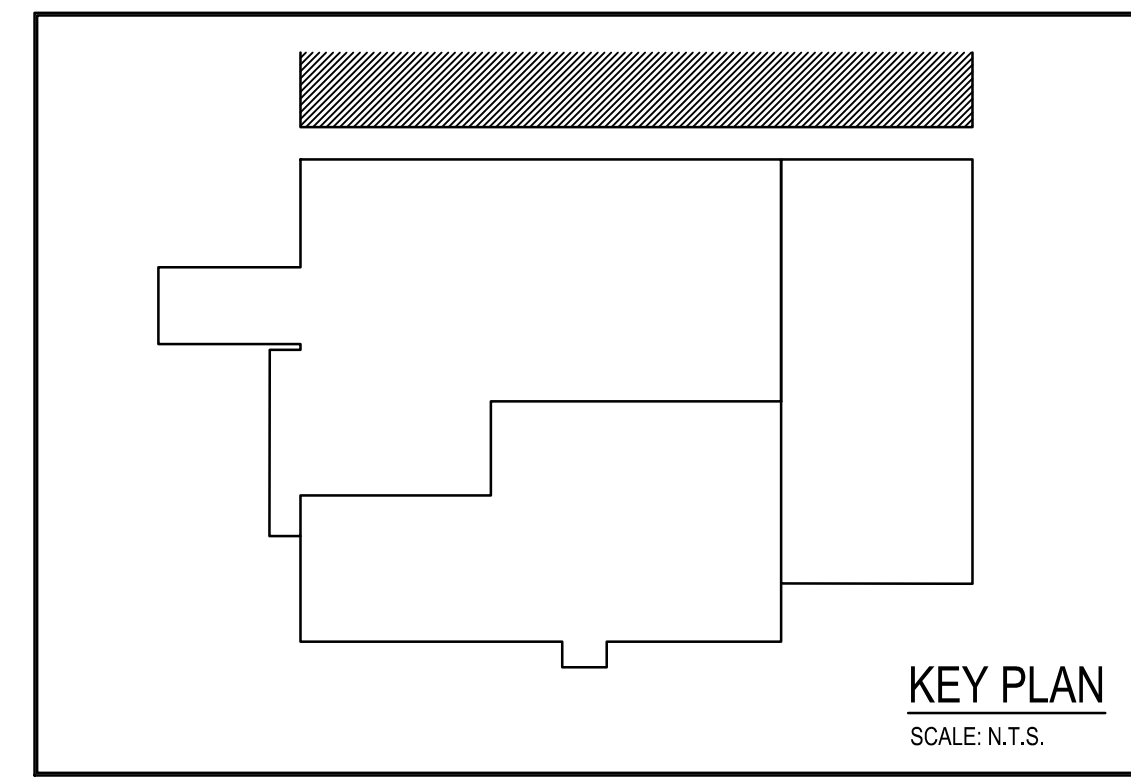


THE DEMOLITION WORK INDICATED IS INTENDED TO ASSIST THE CONTRACTOR AND GIVE GENERAL INFORMATION. THE CONTRACTOR SHALL BE REQUIRED TO VISIT THE PROJECT SITE PRIOR TO BIDDING TO FULLY ACQUANT HIMSELF WITH THE EXTENT OF ALL DEMOLITION WORK WHICH IS NECESSARY TO COMPLETE THE ALTERATIONS AND NEW CONSTRUCTION AS DESCRIBED IN THE CONTRACT DOCUMENTS. ALL DEMOLITION WORK REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE WHETHER INDICATED ON THE DRAWING OR NOT. THE CONTRACTOR WILL NOT BE ENTITLED TO ANY CLAIMS FOR ADDITIONAL COMPENSATION RELATED TO REQUIRED DEMOLITION.

**KEYED DRAWING NOTES:**

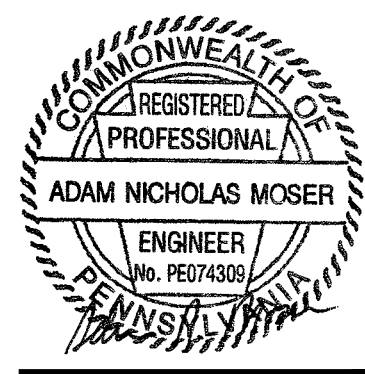
- ① THE EXISTING SPRINKLER HEAD TO REMAIN IN THIS AREA.
- ② REMOVE EXISTING SPRINKLER HEAD AND BRANCH PIPING AS REQUIRED FOR NEW INSTALLATION.
- ③ REMOVE EXISTING LOW POINT DRAIN AND PROVIDE NEW OUTSIDE THE LIBRARY STORAGE AREA.

**FIRST FLOOR PLAN - FIRE PROTECTION DEMOLITION**  
SCALE: 1/8" = 1'-0"



**CONSOLIDATED ENGINEERS**  
1022 Jimma Drive  
Leesport, PA 17033  
Tel: 610-916-1000 Fax: 610-916-1010  
Internet: www.consolidatedengineers.com

**ISSUED FOR PERMIT**  
**MAY 10, 2021**

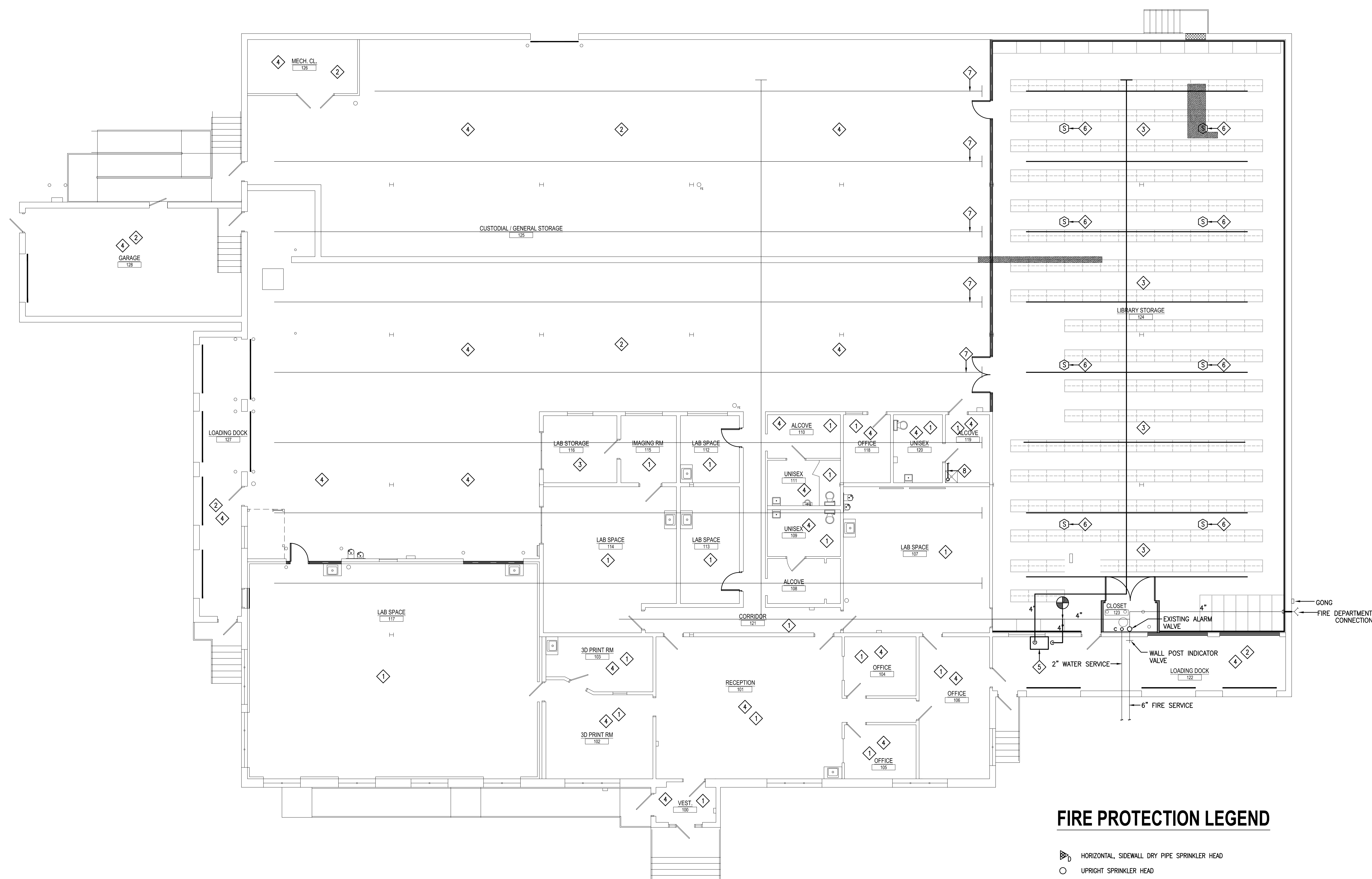


**AEM ARCHITECTS, INC.**  
3700 PERKOTOMEN AVENUE, READING, PA 19606-2785  
Phone: 610-793-3320 Fax: 610-793-8022 www.aem-arch.com

**FLOOR PLAN - FIRE PROTECTION DEMOLITION**  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
**ALBRIGHT COLLEGE**  
1041 EAST ROCKLAND STREET, READING, PA 19604

ALL DIMENSIONS AND EXISTING CONDITIONS  
SHALL BE CHECKED AND VERIFIED  
BY THE CONTRACTOR AT THE SITE.  
JOB NO.: 21006.00  
DRAWN BY: FB  
DATE: 05/10/2021

**FP-1**



**FIRST FLOOR PLAN - FIRE PROTECTION**  
SCALE: 1/8" = 1'-0"

**FIRE PROTECTION LEGEND**

- ▷ D HORIZONTAL, SIDEWALL DRY PIPE SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- SEMI-RECESSED, PENDENT SPRINKLER HEAD
- CONCEALED, PENDENT SPRINKLER HEAD
- ▷ D RECESSED PENDENT, DRY PIPE SPRINKLER HEAD
- ▷ HORIZONTAL, SIDEWALL SPRINKLER HEAD
- ⊕ UPRIGHT, SPRINKLER HEAD W/ GUARD
- Ⓔ FIRE PROTECTION DESIGN NOTE
- FP FIRE PROTECTION
- FPC FIRE PROTECTION CONTRACTOR
- FPZ#1 FIRE PROTECTION ZONE VALVE LABEL
- ↗ FIRE DEPARTMENT CONNECTION
- ⊖ ELECTRIC MOTOR GONG
- SURFACE MOUNTED, HOSE RACK STATION
- ⊕ CONNECT NEW TO EXISTING

- DRAWING NOTES:**
1. PROVIDE REQUIRED SERVICE CLEARANCE FOR ALL EQUIPMENT AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
  2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION OF SPRINKLER HEAD TYPE AND LOCATIONS. ANY CEILING REMOVAL REQUIRED FOR WORK TO BE COMPLETED UNDER THIS CONTRACT, THAT IS NOT INDICATED ON THE ARCHITECTURAL PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DAMAGED CEILINGS REMOVED BY THIS CONTRACTOR SHALL BE REPLACE AND/OR REPAIRED BY THIS CONTRACTOR.
  3. THE FPC IS RESPONSIBLE FOR ANT CUTTING AND PATCHING REQUIRED TO COMPLETE THEIR WORK.

**KEYED DRAWING NOTES:**

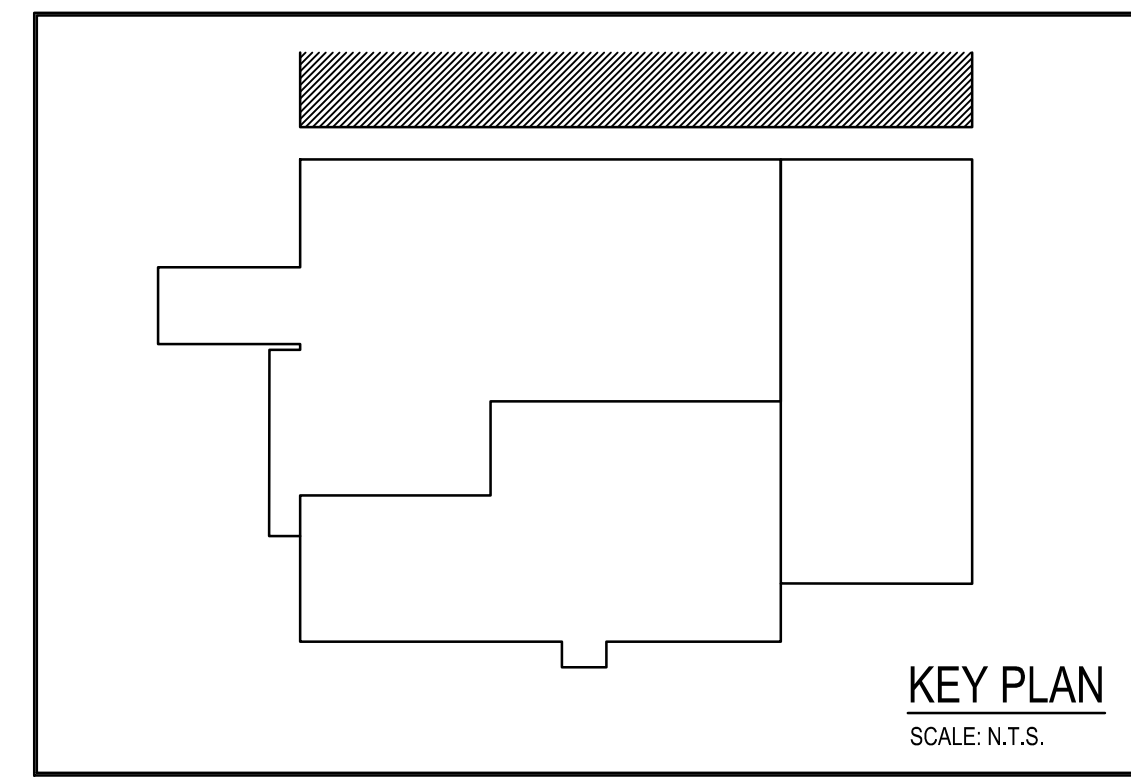
- 1 SPRINKLER SYSTEM DESIGN DENSITY FOR ROOMS INDICATED SHALL BE BASED ON LIGHT HAZARD CLASSIFICATION.
- 2 SPRINKLER SYSTEM DESIGN DENSITY FOR ROOMS INDICATED SHALL BE BASED ON ORDINARY HAZARD 1 CLASSIFICATION.
- 3 SPRINKLER SYSTEM DESIGN DENSITY FOR ROOMS INDICATED SHALL BE BASED ON ORDINARY HAZARD 2 CLASSIFICATION.
- 4 EXISTING SPRINKLER HEADS TO REMAIN. ADD ADDITIONAL HEADS IF REQUIRED TO MEET DESIGN CLASSIFICATION.
- 5 PROVIDE VIKING TOTALPAC 3 SELF CONTAINED DOUBLE INTERLOCK PRE-ACTION SYSTEM WITH VIKING PAR-3 MODEL B-2 CONTROL PANEL W/BATTERIES, FULL FLANGE, SHUT-OFF VALVE & SIGHT GLASS AND AIR PRESSURE MAINTENANCE DEVICE (STYLE "M") OPTIONS TO PROTECT ARCHIVE STORAGE AS INDICATED. ALSO PROVIDE THE OPTION OF AN ADDITIONAL CONTROL VALVE INSIDE OF THE CABINET ON THE MAIN SPRINKLER FEED LINE BEFORE EXIT FROM CABINET FOR TESTING PURPOSES. PROVIDE 1.5 HP 208 VOLT, PRE-PIPED AIR COMPRESSOR. PROVIDE AND WIRE ALL SUPERVISORY AND ACTIVATION DEVICES REQUIRED FOR A COMPLETE AND OPERATING SYSTEM THAT MEETS NFPA REQUIREMENTS. COORDINATE WITH PLUMBING CONTRACTOR FOR PROPER LOCATION OF
- 6 PROVIDE AREA HEAT DETECTORS AND WIRE THEM BACK TO THE CONTROL PANEL IN THE PRE-ACTION PANEL.
- 7 PROVIDE NEW UPRIGHT SPRINKLER HEAD ON THE BRANCH LINE IN ACCORDANCE WITH NFPA-13
- 8 PIPE NEW LOW POINT DRAIN TO THIS LOCATION.
- 9 FPC TO PROVIDE SIGNING AS REQUIRED BY THE CITY OF READING.

**SPRINKLER SYSTEM GENERAL NOTES:**

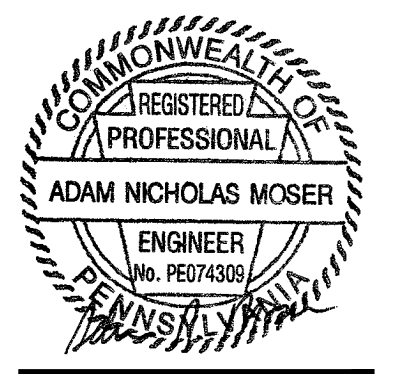
- 1a) Type of System: Archive Storage - DOUBLE INTERLOCK PRE-ACTION WET W/NITROGEN CHARGE
- 1b) Type of System: All other areas - WET SYSTEM
- 2) Protection Area Limitation: 225 / 130 sq. ft.
- 3a) Classification of Occupancy: Library Storage - Ordinary Hazard group 2 as defined by UCC
- 3b) Classification of Occupancy: All other areas - See Drawings
- 4) Type of Construction: Conc. Floor and SJI beams with metal roof deck
- 5) All Hangers to be installed as per NFPA #13, 2019.
- 6) All Hanger Rod to be All Thread Rod only.
- 7) Sprinkler Head Deflector Distance: (Smooth Ceiling)  
Minimum: 1 Inches  
Maximum: 12 Inches
- 8) Sprinkler System to be Designed, Installed, and Tested in Accordance with NFPA Pamphlet No. 13-2019.
- 9) In Localities Subject to Freezing Conditions, Provide Heat Throughout Wet Pipe Sprinkler System Areas and in Enclosures for Dry Pipe, Deluge and Other Types of Valves Controlling Water Supplies to Sprinkler Systems.
- 10) Install an Auxiliary Drain for a Trapped Section of 5 GALLONS OR LESS Consisting of a 3/4 Inch Nipple and Cap as per NFPA Pamphlet No. 13-2010, Chapter 4 System Components, Section 4-5.3.5 Auxiliary Drains for Wet-Pipe Systems.
- 11) Install an Auxiliary Drain for a Trapped Section of MORE THAN 5 GALLONS Consisting of a 3/4 Inch Nipple, Globe Valve, and Plug as per NFPA Pamphlet No. 13-2010, Chapter 4 System Components, Section 4-5.3.5 Auxiliary Drains for Wet-Pipe Systems.
- 12) Flow Test: Contractor to coordinate, schedule and include in the bid, a flow test with RAWA.
- 13) All work indicated on the drawings shall be installed per the specifications and be included as part of the FIRE PROTECTION contract.
- 14) All required cutting and patching shall be by the INSTALLING CONTRACTOR.
- 15) Sprinkler piping shall be schedule 10 black steel pipe with roll grooved ends and mechanical couplings and gaskets (Victaulic or equal). Pre-action piping shall be schedule 40 galvanized steel pipe with threaded fittings.
- 16) Sprinkler heads shall be quick response, 1/2" orifice for "ordinary temperature classifications.
- 17) Locate heads in the center of the tiles where applicable.
- 18) The Fire Suppression Contractor is required to submit working construction documents for review by the Engineer, and applicable local code officials. The submittal shall conform to the requirements of Chapter 105 of the 2015 International Fire Code and NFPA-13. The construction documents shall be prepared by a registered design professional, as required by the local code official, and submitted in such form and detail as required by the local jurisdiction.
- 19) Provide hydraulic calculations using water flow test data obtained from RAWA. Use the test data to size the piping system and all components.

**GENERAL FIRE PROTECTION NOTES**

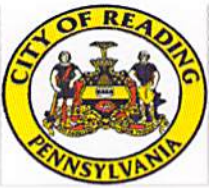
1. THIS PLAN REFLECTS A SPRINKLER SYSTEM TO BE INSTALLED. THE SYSTEM WAS DEVELOPED IN ACCORDANCE WITH NFPA #13, AUTHORITY HAVING JURISDICTION, INSURANCE UNDERWRITER AND AS SHOWN IN THE CONTRACT DOCUMENTS.
2. THE SYSTEM IS SUPPLIED FROM A PUBLIC WATER SUPPLY.
3. ALL MATERIALS ARE U.L. LISTED AND MEET THE PROVISIONS OF NFPA #13.
4. ALL PIPING SHALL BE SECURELY SUPPORTED FROM THE STRUCTURE BY MEANS OF LISTED FASTENERS. ALL HANGERS SHALL MEET THE PROVISIONS OF NFPA #13.
5. THIS SYSTEM IS HYDRAULICALLY CALCULATED. ALL PIPE AND EQUIP. ARE LOCATED AND ELEVATED. ALL OTHER TRADES TO ACCOMMODATE AS NECESSARY.
6. TAMPER SWITCHES ARE TO BE INSTALLED ON ALL CONTROL VALVES.
7. WIRING OF ELECTRICAL DEVICES IS AS INDICATED ON THE DRAWINGS.
8. UPON COMPLETION ALL NEW PIPING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA #13 FOR 2 HOURS @ 200 PSI AND WITNESSED BY THE AUTHORITY HAVING JURISDICTION AND/OR THE OWNER'S REP.



**ISSUED FOR PERMIT**  
**MAY 10, 2021**







# Building and Trades Permit Application

OWNER: Albright College - Brad King PHONE: 610-921-7524

ADDRESS: 1621 N. 13th Street

CITY: Reading STATE: PA ZIP CODE: 19604

EMAIL ADDRESS: bking@albright.edu ZONING APPROVAL Submitted

CONTRACTOR: Brad King ADDRESS: 1621 N. 13th Street

CITY: Reading STATE: PA ZIP CODE: 19604

CONTRACTOR PHONE: 610-921-7524

CONTRACTOR EMAIL: bking@albright.edu

### PERMIT TYPE

- BUILDING
- ELECTRICAL
- OTHER
- PLUMBING
- MECHANICAL

**JOBSITE ADDRESS:** 1015 / 1041 East Rockland Street, Reading, PA, 19604

**DESCRIPTION OF WORK:** SUBMITTED WITH PLANS?  YES  NO

Lab Space (room 117) and Library Storage (room 124) shall receive new air handling units.  
Existing rooftop units conditioning the remaining spaces shall remain. Ducts and diffusers shall be replaced.


### FOR CONTRACTORS ONLY

TRADES LICENSE # [ ] BPL #396267

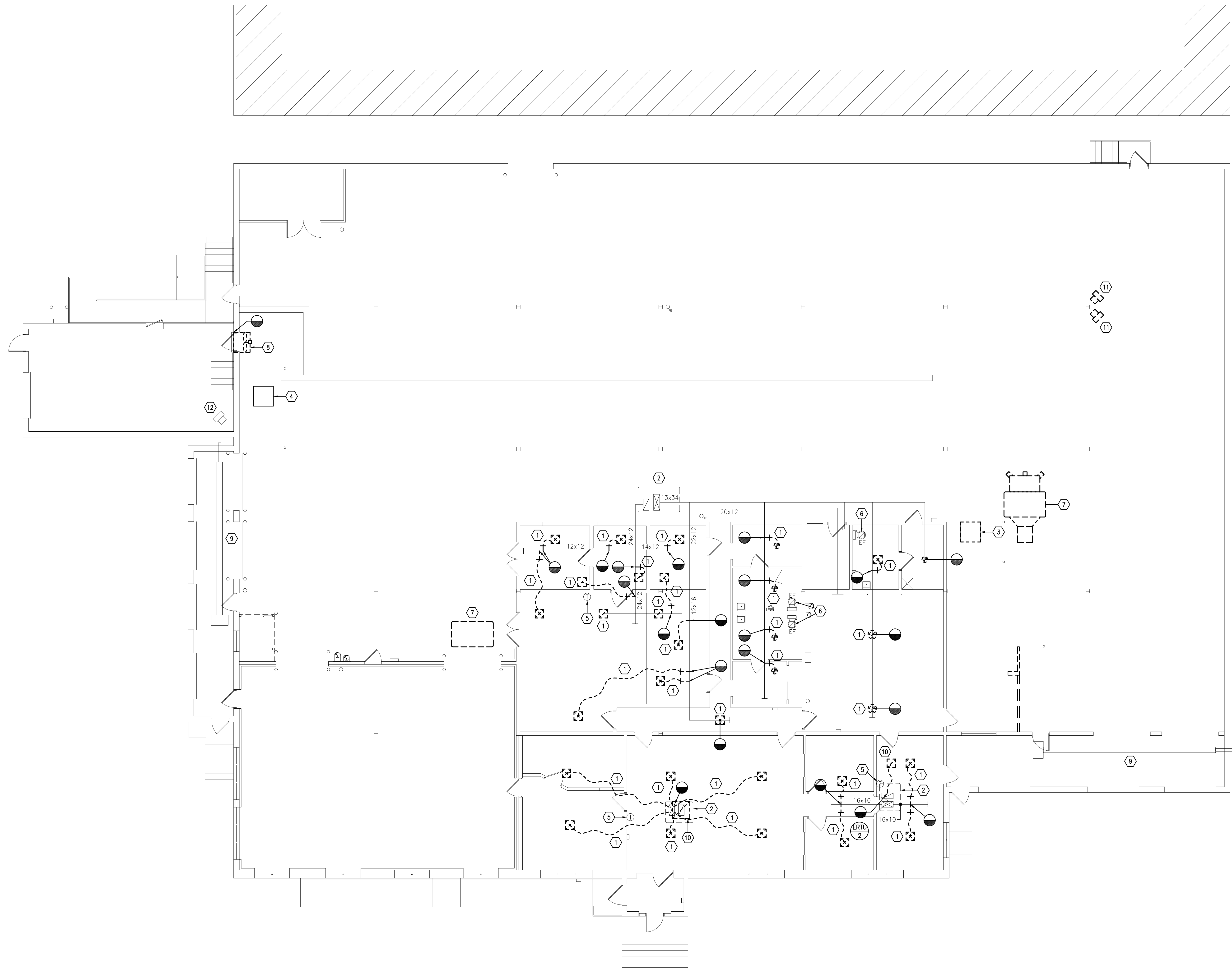
PROJECT COST (Labor + Materials) \$ 120,000.00

**PERMIT FEE** \$ 1879.5

Under penalty of intentional misrepresentation and / or perjury, I declare that I have examined and / or made this application and is true and correct to the best of my knowledge and belief. I agree to construct said improvement in compliance with all provisions of the ordinances of the City of Reading and applicable Building Codes. I realize that the information I have stated herein forms a basis for the issuance of the building permit herein applied for and approval of any plans in connection therewith shall not be construed to permit any construction upon said premises or use thereof in violation of any provision of the UCC therewith. Where no work has been started within 180 days after the issuance of a permit or when more than 180 days lapses between approval of required inspections, such permit shall be void. I hereby certify that I am the owner at this address or that, for the purpose of obtaining this approval, I am acting on behalf of the owner. All contract work on this project will be done by a contractor holding valid business privilege license and contractor's license by the City of Reading.

SIGNATURE   Owner / Representative  Contractor DATE: 05/10/21

APPROVED BY: BRAD KING DATE: 5/10/21



**FIRST FLOOR PLAN - HVAC DEMOLITION**  
SCALE: 1/8" = 1'-0"

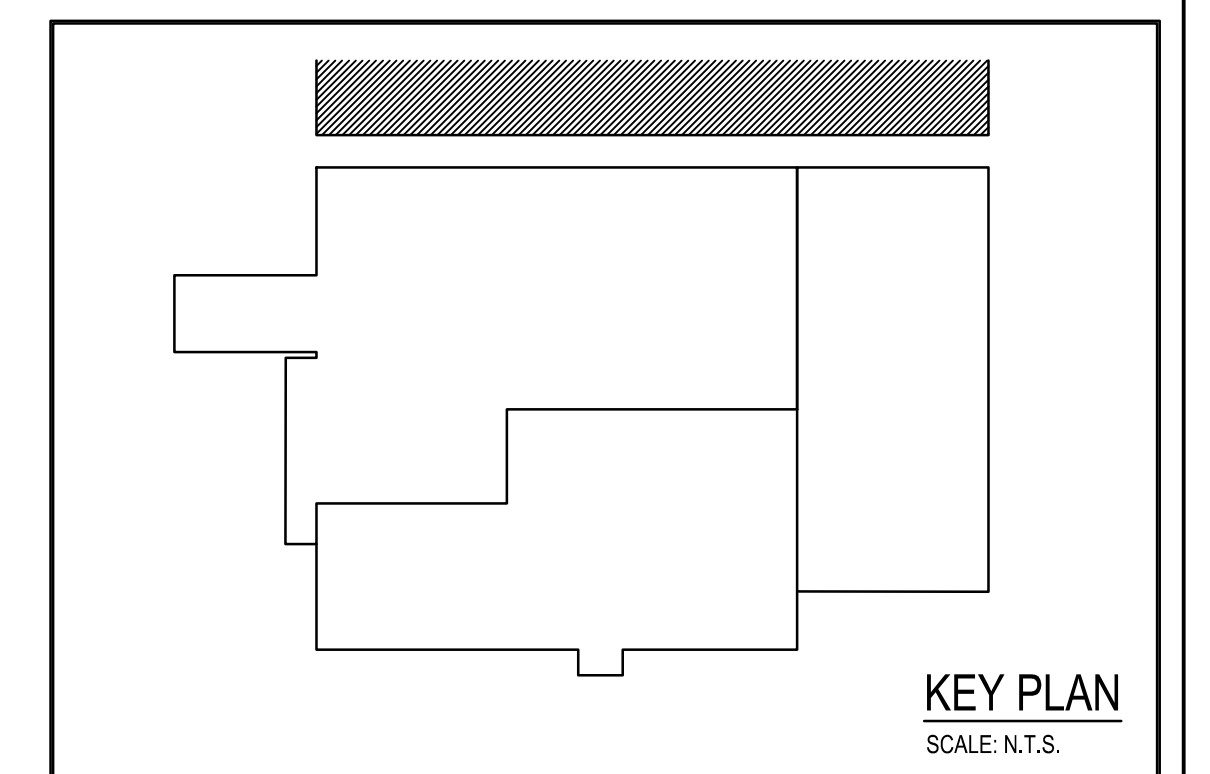
THE DEMOLITION WORK INDICATED IS INTENDED TO ASSIST THE CONTRACTOR AND GIVE GENERAL INFORMATION. THE CONTRACTOR SHALL BE REQUIRED TO VISIT THE PROJECT SITE PRIOR TO BIDDING TO FULLY ACQUAINT HIMSELF WITH THE EXTENT OF ALL DEMOLITION WORK WHICH IS NECESSARY TO COMPLETE THE ALTERATIONS AND NEW CONSTRUCTION AS DESCRIBED IN THE CONTRACT DOCUMENTS. ALL DEMOLITION WORK REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE WHETHER INDICATED ON THE DRAWING OR NOT. THE CONTRACTOR WILL NOT BE ENTITLED TO ANY CLAIMS FOR ADDITIONAL COMPENSATION RELATED TO REQUIRED DEMOLITION.

**GENERAL DEMOLITION NOTES:**

1. THE HVAC CONTRACTOR SHALL COORDINATE THE SALVAGE AND DISPOSAL OF ALL EQUIPMENT AND MATERIAL WITH THE OWNER. THE HVAC CONTRACTOR SHALL RETURN TO THE OWNER ANY ITEMS NOTED OR NOT NOTED, ON THE DRAWINGS, AT THE OWNER'S REQUEST. ALL REMAINING EQUIPMENT AND MATERIAL SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR.
2. THE HVAC CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AS REQUIRED TO ACCOMMODATE PROJECT PHASING.
3. ALL PATCHING & REPAIRING OF SURFACES AND HOLES LEFT OPEN DUE TO DEMOLITION OR REMOVAL OF EXISTING PIPING & EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR. PATCH EXISTING CONSTRUCTION AS REQUIRED TO MATCH ADJACENT SURFACES OR TO RECEIVE NEW FINISHES AS SCHEDULED UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWING.
4. THE HVAC CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, TRENCHING EXCAVATION AND BACKFILLING REQUIRED TO COMPLETE ALL INDICATED WORK.
5. ALL EXISTING PIPING AND EQUIPMENT SHOWN MUST BE VERIFIED IN THE FIELD. ANY HVAC EQUIPMENT NOT SHOWN SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO REMOVAL.

**KEYED DEMOLITION NOTES:**

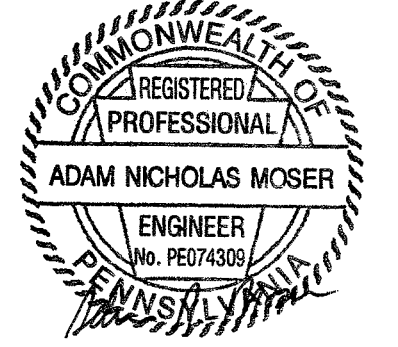
- 1 REMOVE EXISTING DIFFUSER, BRANCH DUCT, FLEX DUCT AND ALL ASSOCIATED SUPPORTS AND HANGERS BACK TO DUCT MAIN AS INDICATED. CAP DUCT AT MAIN.
- 2 EXISTING ROOFTOP UNIT TO REMAIN.
- 3 EXISTING AIR ROTATION UNIT TO BE RELOCATED. SEE DRAWING H-2.
- 4 EXISTING AIR ROTATION UNIT TO REMAIN.
- 5 EXISTING THERMOSTAT TO REMAIN.
- 6 EXISTING TOILET ROOM EXHAUST FAN TO REMAIN.
- 7 REMOVE EXISTING AIR HANDLING UNIT IN IT'S ENTIRETY.
- 8 REMOVE EXHAUST FAN AND ASSOCIATED CONTROLS. EXISTING WALL LOUVER TO REMAIN.
- 9 EXISTING RADIANT HEATER TO REMAIN.
- 10 REMOVE EXISTING RETURN GRILLE AND ASSOCIATED DUCTWORK, FLEX DUCT, SUPPORTS AND HANGERS.
- 11 REMOVE EXISTING INDUSTRIAL FANS AND TURN THEM OVER TO COLLEGE.
- 12 EXISTING ELECTRIC UNIT HEATER TO REMAIN.



FLOOR PLAN - HVAC DEMOLITION  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
1041 EAST ROCKLAND STREET, READING, PA 19604

ALL DIMENSIONS AND EXISTING CONDITIONS  
SHALL BE CHECKED AND VERIFIED  
BY THE CONTRACTOR AT THE SITE.  
JOB NO.: 21006.00  
DRAWN BY: MG  
DATE: 05/10/2021

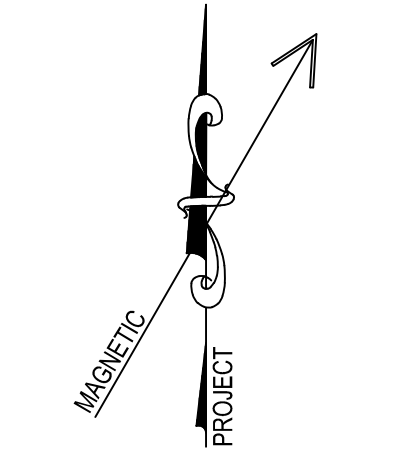
H-1

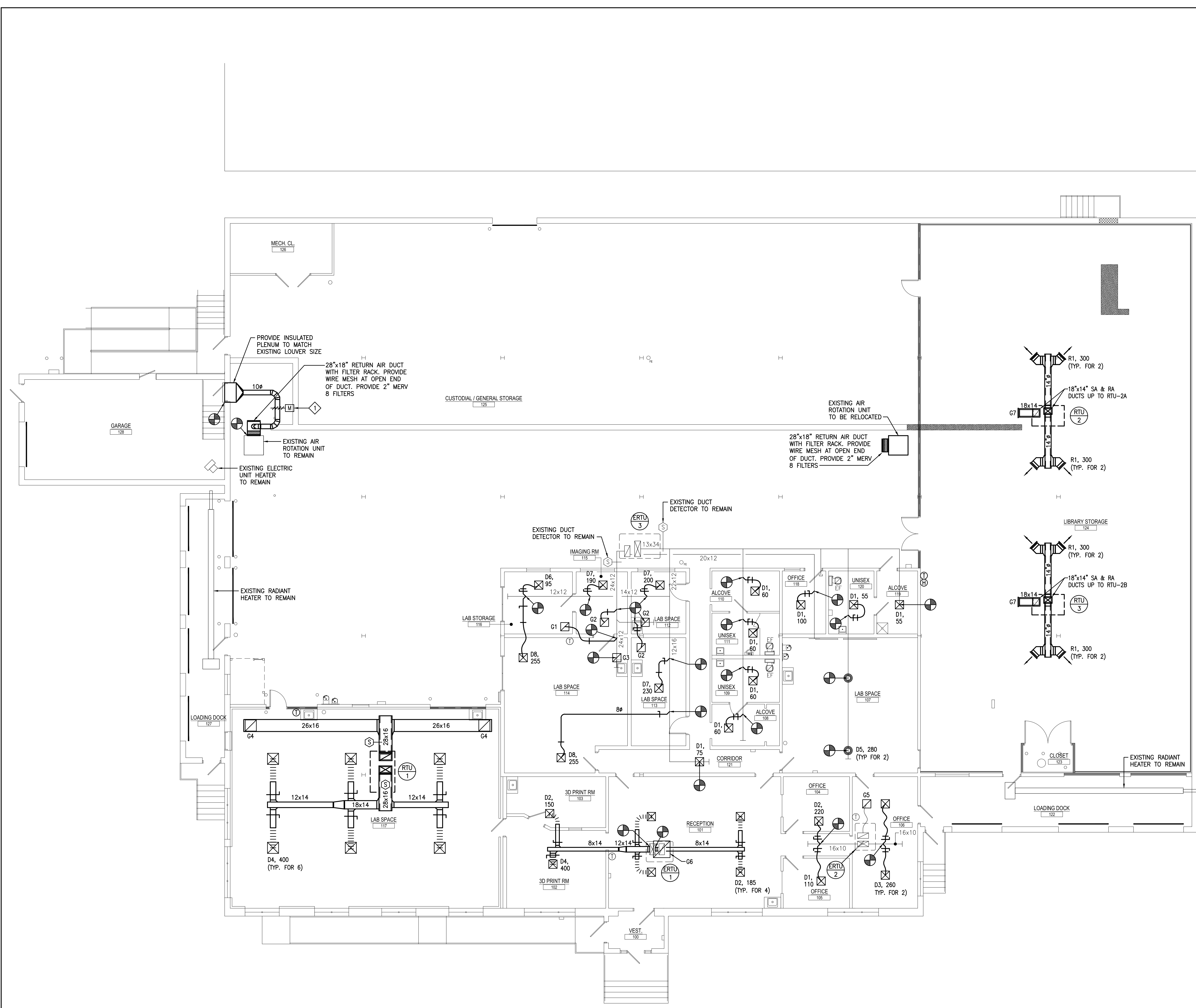


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3700 PERKOWEN AVENUE, READING, PA 19606-2785  
Phone: 610/795-3320 Fax: 610/795-8027 www.aem-arch.com

**ISSUED FOR PERMIT**  
**MAY 10, 2021**

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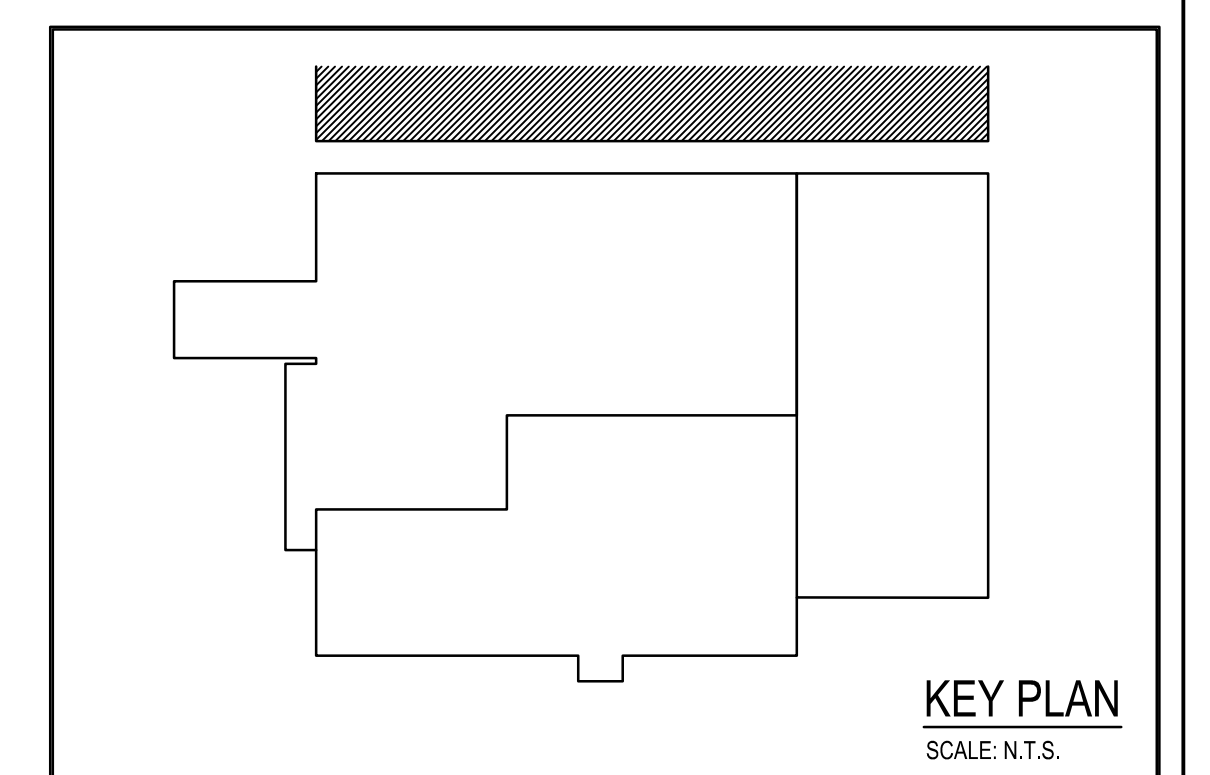
**FIRST FLOOR PLAN - HVAC**  
SCALE: 1/8" = 1'-0"

**DRAWING NOTES:**

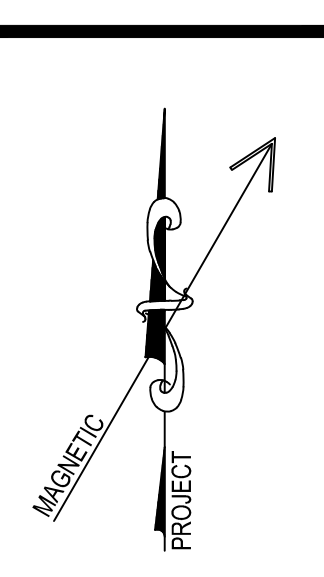
1. PROVIDE REQUIRED SERVICE CLEARANCE FOR ALL HVAC UNITS AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF HVAC CEILING OUTLETS AND OTHER CEILING MOUNTED DEVICES. ANY CEILING REMOVAL REQUIRED FOR WORK TO BE COMPLETED UNDER THIS CONTRACT, THAT IS NOT INDICATED ON THE ARCHITECTURAL PLANS, SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. CEILINGS REMOVED BY THIS CONTRACTOR SHALL BE REPLACED AND/OR REPAIRED BY HIM, AS PER SPECIFICATIONS.
3. H.C. SHALL COMPLETE AIR BALANCING ON NEW AND EXISTING EQUIPMENT. REFER TO SPECIFICATION SECTION 230600.

**KEYED DRAWING NOTES:**

- ◇ H.C. SHALL PROVIDE 24 VOLT MOTOR OPERATED DAMPER AND RELAY ON FAN CONTROL CIRCUIT. M.O.D. SHALL OPEN TO SCHEDULED MINIMUM AIR FLOW, (655 CFM), WHENEVER FAN IS IN OPERATION.



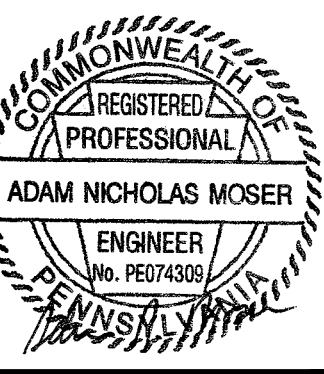
**KEY PLAN**  
SCALE: N.T.S.



CONSOLIDATED  
ENGINEERS  
1022 James Drive  
Leesport, PA 17033  
Tel: 610-916-1000 Fax: 610-916-1010  
Internet: www.consolidatedengineers.com



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**MAY 10, 2021**



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3700 PERKOMEN AVENUE, READING, PA 19606-2785  
Phone: 610-778-3320 Fax: 610-778-8022 www.aem-arch.com

FLOOR PLANS - HVAC  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
1041 EAST ROCKLAND STREET, READING, PA 19604

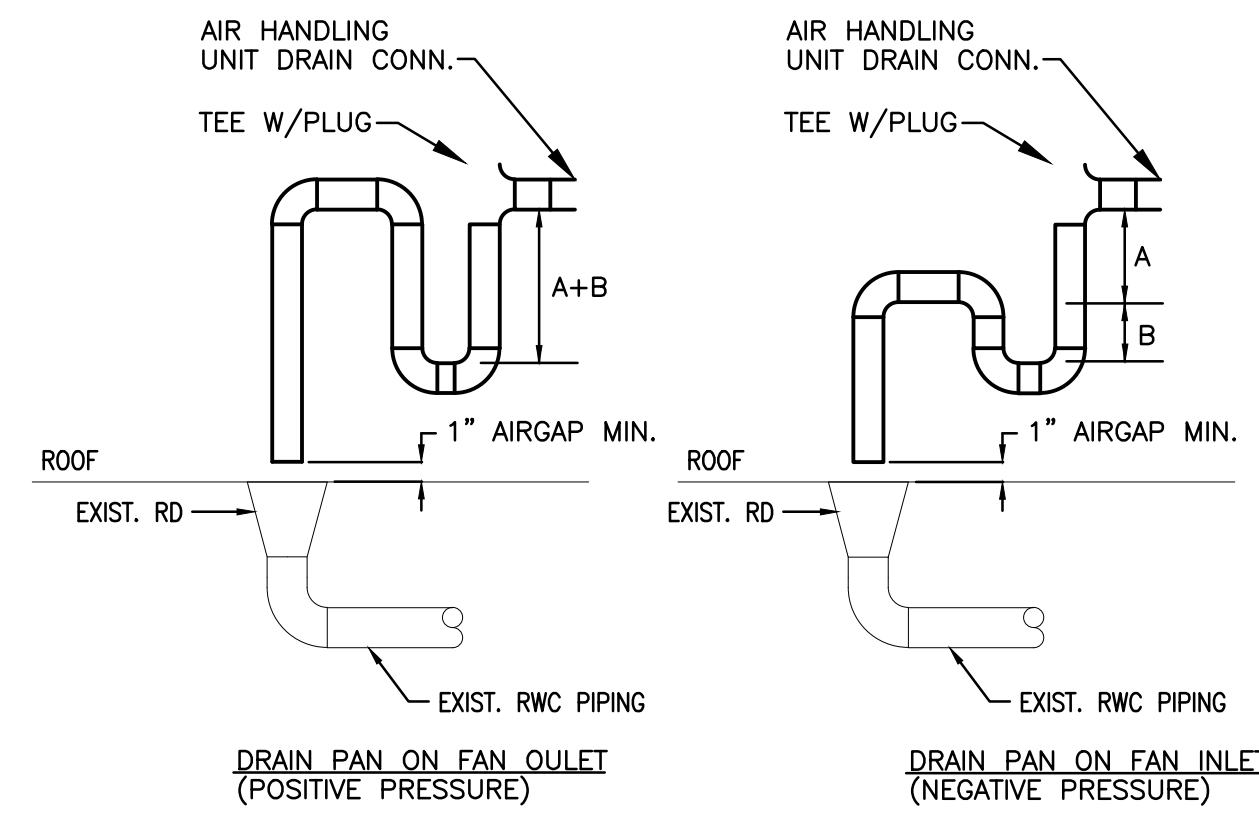
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BY THE CONTRACTOR AT THE SITE.  
JOB NO.: 21006.00  
DRAWN BY: MG  
DATE: 05/10/2021

ROOFTOP AIR HANDLING UNIT SCHEDULE																	BASIS OF DESIGN: TRANS				
SYMBOL	CFM		FAN DATA				MODEL	UNIT WIRING DATA		DX COOLING					GAS HEATING		MAXIMUM OPERATING WEIGHT	NOMINAL DIMENSIONS L x W x H	REMARKS		
	TOTAL	MIN OA	E.S.P.	H.P.	RPM	ELEC		M.C.A.	MAX. FUSE OR CIRCUIT BKR.	EADB	EAWB	LADB	LAWB	TOTAL M.B.H.	SENSIBLE M.B.H.	E.A.T.				NO. OF STAGES	INPUT M.B.H.
(E)RTU-1	1400	170	-	-	-	208-1-60	2YCC3042	-	-	-	-	-	40.0	-	-	-	64.0	51.2	-	-	-
(E)RTU-2	725	105	-	-	-	208-1-60	2YCC3024	-	-	-	-	-	23.0	-	-	-	40.0	25.6	-	-	-
(E)RTU-3	2400	675	-	-	-	208-1-60	YSC072A	-	-	-	-	72.0	-	-	-	121.5	97.2	-	-	-	-
RTU-1	2400	695	0.90	3.0	1132	208-3-60	YHC092	42	50	79.5	65.0	54.1	54.1	85.2	65.8	46.5	2	150	120	1420	89" x 53" x 47"
RTU-2	1450	270	0.70	1.0	937	208-3-60	YHC048	24	35	76.0	63.0	53.4	53.4	45.5	35.4	61.0	1	80	64	1075	89" x 53" x 47"
RTU-3	1200	180	0.70	0.75	973	208-3-60	YHC036	18	25	76.0	63.0	54.1	54.1	35.8	28.4	49.6	1	80	64	850	70" x 44" x 36"

- NOTES: 1. MODEL NUMBERS ARE INDICATED FOR REFERENCE ONLY. THE DUTIES AND CAPACITIES ARE TO BE USED FOR FINAL UNIT SELECTION BY THE MANUFACTURER.  
2. NEW UNITS TO HAVE THE FOLLOWING OPTIONS: MICROPROCESSOR CONTROL, ENTHALPY ECONOMIZER, MERV 8 FILTER, CONVENIENCE OUTLET, HOT GAS REHEAT, ROOF CURB, PROGRAMMABLE ZONE SENSOR & HUMIDITY SENSOR.  
3. PROVIDE MAINTENANCE SERVICE CHECK ON EXISTING (E) UNITS. CHECK HEAT & COOLING OPERATION, CHANGE FILTERS & SUBMIT REPORT.  
4. COMPLETE TESTING, BALANCING & ADJUSTING ON ALL SYSTEMS. (NEW AND EXISTING).  
5. ROOF CURBS SHALL BE FURNISHED BY H.C., INSTALLED BY ROOFING CONTRACTOR.

GRILLE AND REGISTER SCHEDULE						
SYMBOL	SIZE	MODEL	N.C.	BORDER TYPE	MANUFACTURER	REMARKS
G1	6x6	350FL	<20	LAY-IN	TITUS	-
G2	8x8	350FL	<20	LAY-IN	TITUS	-
G3	10x10	350FL	<20	LAY-IN	TITUS	-
G4	20x20	350FL	<20	LAY-IN	TITUS	-
G5	24x30	350FL	<20	LAY-IN	TITUS	-
G6	36x36	350FL	<20	SURFACE	TITUS	-
G7	18x14	350FL	<20	SURFACE	TITUS	-
R1	18x14	272RL	<20	SURFACE	TITUS	-

DIFFUSER SCHEDULE								
SYMBOL	NECK SIZE	FACE SIZE	BORDER TYPE	BLOW	MODEL	N. C.	MANUFACTURER	REMARKS
D1	6"	18x18	LAY-IN	4 WAY	TDC	< 20	TITUS	
D2	8"	18x18	LAY-IN	4 WAY	TDC	< 20		
D3	10"	18x18	LAY-IN	4 WAY	TDC	< 20		
D4	12"	18x18	LAY-IN	4 WAY	TDC	< 20		
D5	12"	22"	SURFACE	-	TMR	< 20		
D6	6 x 6	-	SURFACE	4 WAY	TDC	< 20		
D7	9 x 9	-	SURFACE	4 WAY	TDC	< 20		
D8	12 x 12	-	SURFACE	4 WAY	TDC	< 20		



- NOTES:  
1. DRAIN CONN TO BE FULL SIZE, BUT NOT LESS THAN 1".  
2. "A" = SYSTEM STATIC IN INCHES AT DRAIN POINT.  
"B" = 1/2 SYSTEM STATIC IN INCHES AT DRAIN POINT.

AIR HANDLING UNIT DRAINS  
NO SCALE

### HVAC LEGEND

(ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT)

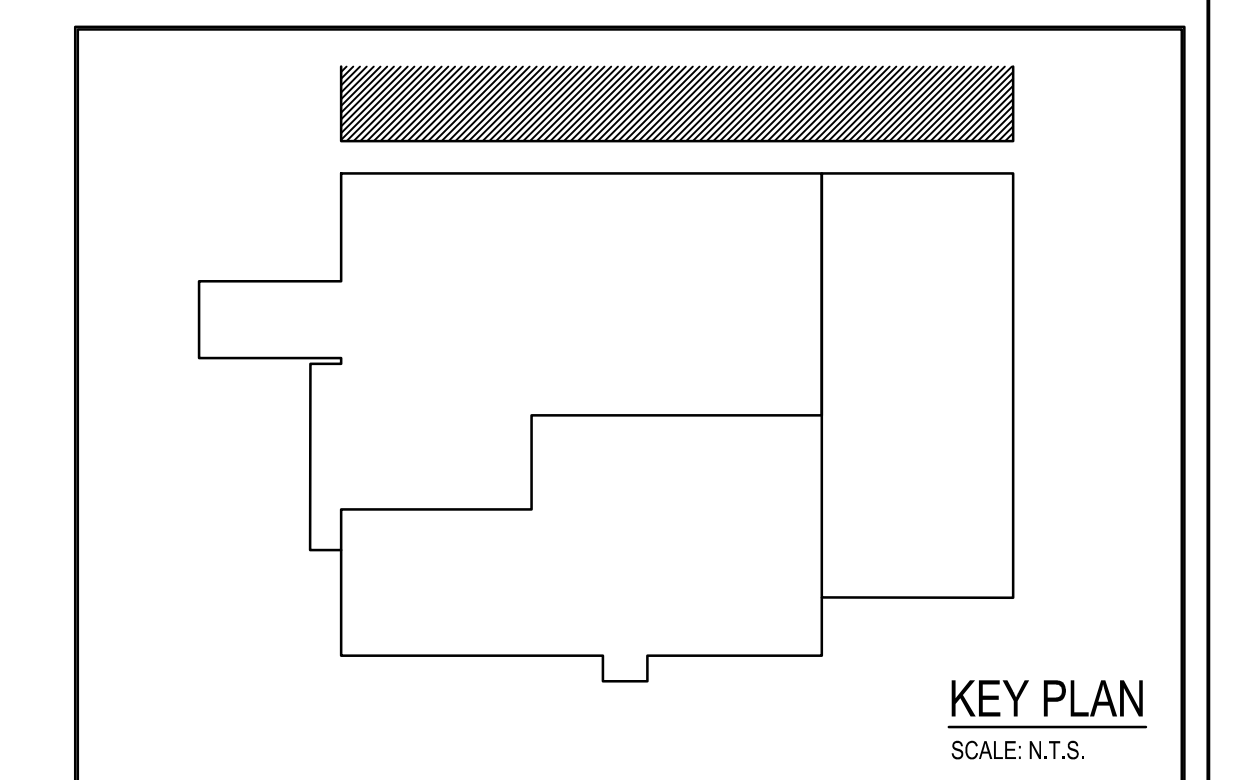
	2-WAY CONTROL VALVE		HWS	HEATING WATER SUPPLY
	3-WAY CONTROL VALVE		HWR	HEATING WATER RETURN
	BACKFLOW PREVENTER (TAGGED BP)		DTS	DUAL TEMPERATURE WATER SUPPLY
	SAFETY RELIEF VALVE		DTR	DUAL TEMPERATURE WATER RETURN
	WATER PRESSURE REDUCING VALVE		CWS	CHILLED WATER SUPPLY
	BALL OR BUTTERFLY VALVE		CWR	CHILLED WATER RETURN
	CALIBRATED BALANCING VALVE		CS	CONDENSER WATER SUPPLY
	CHECK VALVE		CR	CONDENSER WATER RETURN
	STRAINER		HPWS	HEAT PUMP WATER SUPPLY
	TRIPLE DUTY VALVE		HPWR	HEAT PUMP WATER RETURN
	HIGH CAPACITY AUTOMATIC AIR VENT		RL	REFRIGERANT LIQUID
	MANUAL AIR VENT		RS	REFRIGERANT SUCTION
	UNION OR FLANGED CONNECTION		FOS	FUEL OIL SUPPLY
	FLEXIBLE PIPE CONNECTION		FOR	FUEL OIL RETURN
	FLOW METER		FOG	FUEL OIL GAGE
	ELECTROMAGNETIC FLOW METER		FOV	FUEL OIL VENT
	SOLENOID VALVE		CD	CONDENSATE DRAIN
	THERMOSTAT			VERTICAL FIRE DAMPER - 1 1/2 HR.
	THERMOSTAT REVERSE ACTING			HORIZONTAL FIRE DAMPER - 1 1/2 HR.
	CO SENSOR			VERTICAL FIRE DAMPER - 3 HR.
	HUMIDISTAT			HORIZONTAL FIRE DAMPER - 3 HR.
	PRESSURE GAUGE			VERTICAL SMOKE DAMPER
	THERMOMETER			HORIZONTAL SMOKE DAMPER
	P/T PLUG			KEYED DRAWING NOTE
	ELECTRIC OPERATOR			KEYED DEMOLITION DRAWING NOTE
	PNEUMATIC OPERATOR			CONNECT TO EXISTING
	AQUASTAT			EXTENT OF DEMOLITION
	SMOKE DETECTOR FURNISHED BY OTHERS INSTALLED BY HC			
	NEEDLE VALVE			
	MOTOR OPERATED DAMPER			
	OVERRIDE SWITCH, SEE SEQUENCE OF OPERATIONS			

### ABBREVIATIONS

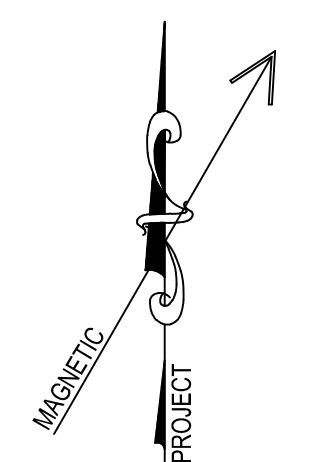
BDD	BACKDRAFT DAMPER
BD	BALANCING DAMPER - MANUAL
MOD	MOTOR OPERATED DAMPER
ABV	ABOVE
ALUM	ALUMINIUM
BEL	BELOW
CLG	CEILING
DN	DOWN
EC	ELECTRICAL CONTRACTOR
EXIST	EXISTING
FLR	FLOOR
GC	GENERAL CONTRACTOR
GTC	GENERAL TRADES CONTRACTOR
HC	HVAC CONTRACTOR
PC	PLUMBING CONTRACTOR
RC	ROOFING CONTRACTOR
REQ'D	REQUIRED
TYP	TYPICAL
W/	WITH

### GENERAL PROJECT NOTES

1. PROVIDE ALTERNATE BID FOR DUCT CLEANING ON EXISTING DUCTWORK.

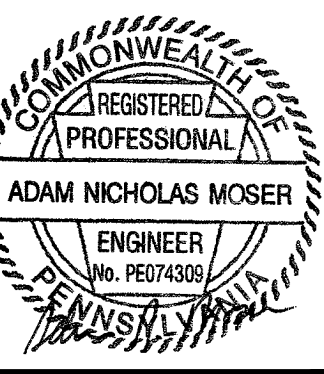


KEY PLAN  
SCALE: N.T.S.



CONSOLIDATED ENGINEERS  
1022 Jimma Drive  
Leesport, PA 17033  
Tel: 610-916-1000 Fax: 610-916-1010  
Internet: www.consolidatedengineers.com

**ISSUED FOR PERMIT**  
**MAY 10, 2021**



**AEI ARCHITECTS INC.**  
3700 PERKINSOMEN AVENUE, READING, PA 19606-2785  
Phone: 610-778-3320 Fax: 610-778-8022  
www.aei-arch.com

MECHANICAL SCHEDULES, LEGEND AND DETAILS  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
1041 EAST ROCKLAND STREET, READING, PA 19604

ALL DIMENSIONS AND EXISTING CONDITIONS  
SHALL BE CHECKED AND VERIFIED  
BY THE CONTRACTOR AT THE SITE.  
JOB NO.: 21006.00  
DRAWN BY: MG  
DATE: 05/10/2021



# Building and Trades Permit Application

OWNER: Albright College - Brad King PHONE: 610-921-7524

ADDRESS: 1621 N. 13th Street

CITY: Reading STATE: PA ZIP CODE: 19604

EMAIL ADDRESS: bking@albright.edu ZONING APPROVAL Submitted

CONTRACTOR: Brad King ADDRESS: 1621 N. 13th Street

CITY: Reading STATE: PA ZIP CODE: 19604

CONTRACTOR PHONE: 610-921-7524

CONTRACTOR EMAIL: bking@albright.edu

### PERMIT TYPE

- BUILDING
- ELECTRICAL
- OTHER
- PLUMBING
- MECHANICAL

**JOBSITE ADDRESS:** 1015 / 1041 East Rockland Street, Reading, PA, 19604

**DESCRIPTION OF WORK:** SUBMITTED WITH PLANS?  YES  NO

Business area (group B) shall receive (7) additional sinks. Slab cutting is needed to tie into existing sewer line.


### FOR CONTRACTORS ONLY

TRADES LICENSE # [ ] BPL #396267

PROJECT COST (Labor + Materials) \$ 38,000.00

**PERMIT FEE** \$ 649.5

Under penalty of intentional misrepresentation and / or perjury, I declare that I have examined and / or made this application and is true and correct to the best of my knowledge and belief. I agree to construct said improvement in compliance with all provisions of the ordinances of the City of Reading and applicable Building Codes. I realize that the information I have stated herein forms a basis for the issuance of the building permit herein applied for and approval of any plans in connection therewith shall not be construed to permit any construction upon said premises or use thereof in violation of any provision of the UCC therewith. Where no work has been started within 180 days after the issuance of a permit or when more than 180 days lapses between approval of required inspections, such permit shall be void. I hereby certify that I am the owner at this address or that, for the purpose of obtaining this approval, I am acting on behalf of the owner. All contract work on this project will be done by a contractor holding valid business privilege license and contractor's license by the City of Reading.

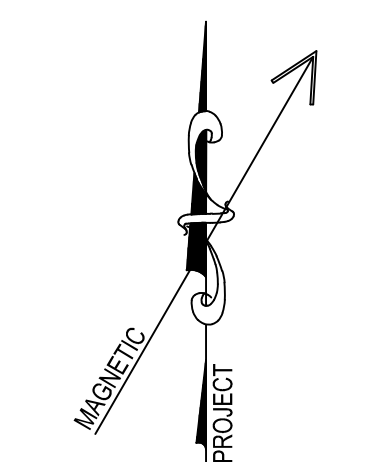
SIGNATURE   Owner / Representative  Contractor DATE: 05/10/21

APPROVED BY: BRAD KING DATE: 5/10/21



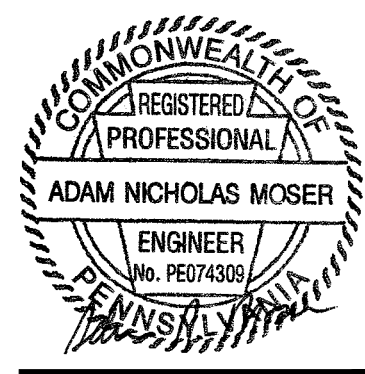
**KEYED DRAWING NOTES:**

- 1 SET BALANCING VALVE AT 3.0 GPM.
- 2 THE NEW WATER LINE INTO EXISTING RISER IN CHASE. CUT & PATCH CHASE AS REQUIRED.
- 3 PROVIDE PROSET TRAP GUARD FOR ALL EXISTING FLOOR DRAINS.
- 4 PROVIDE SOLID STEEL HEAVY GRATE OVER EXISTING TRENCH OPENING.
- 5 EXTEND GAS PIPE TO NEW EQUIPMENT. PROVIDE DIRT LEG, UNION, SHUT-OFF VALVE AND APPLIANCE REGULATOR.
- 6 SPILL 1-1/2" SANITARY LINE INTO INDIRECT WASTE RECEPTOR. SEE DETAIL ON DWG P-3.
- 7 PROVIDE TEE AND VALVE FOR DEIONIZATION, BY OWNER.



CONSOLIDATED  
ENGINEERS  
1022 James Drive  
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Tel: 610-916-1000 Fax: 610-916-1010  
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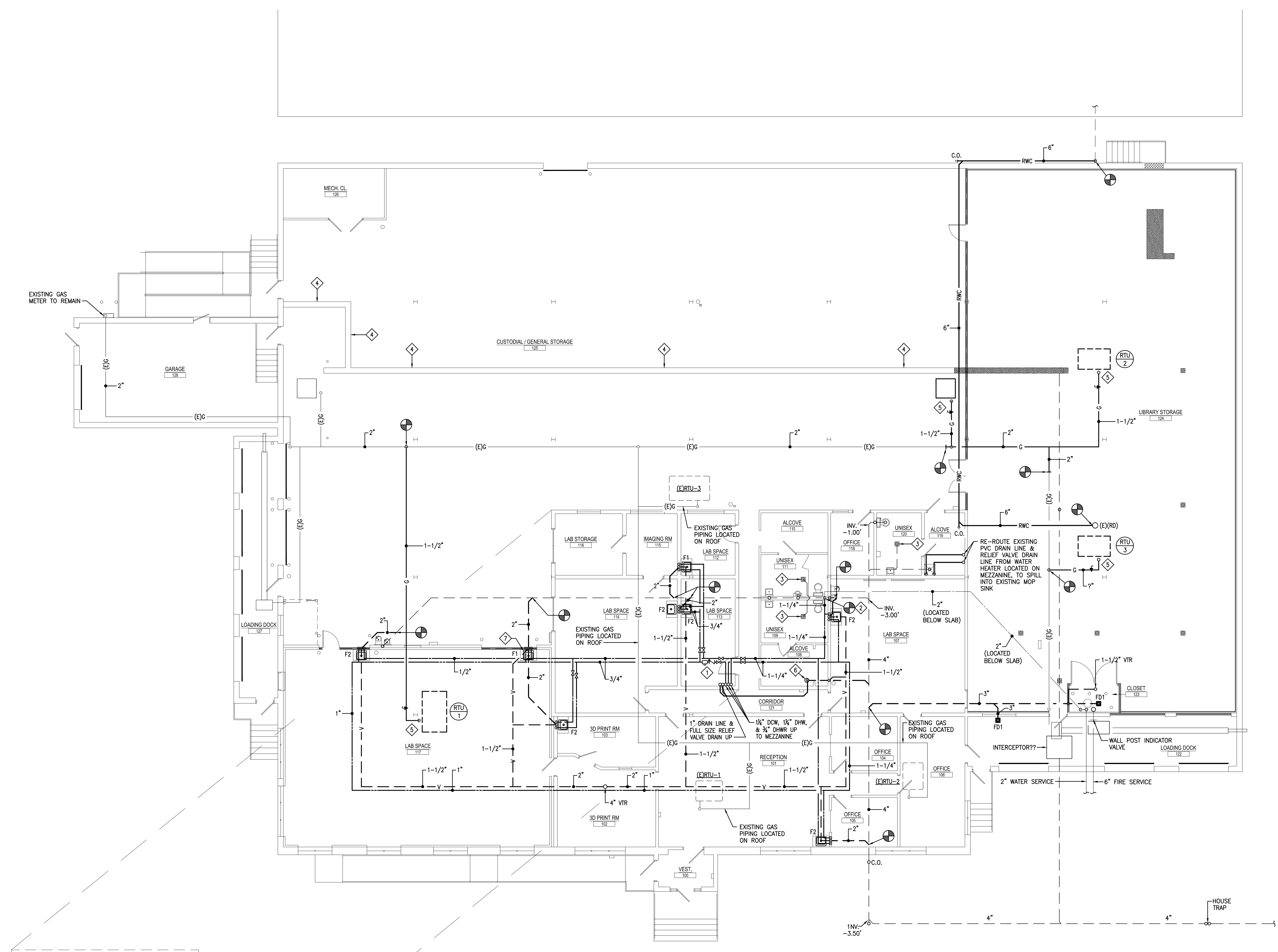
**ISSUED FOR PERMIT**  
**MAY 10, 2021**



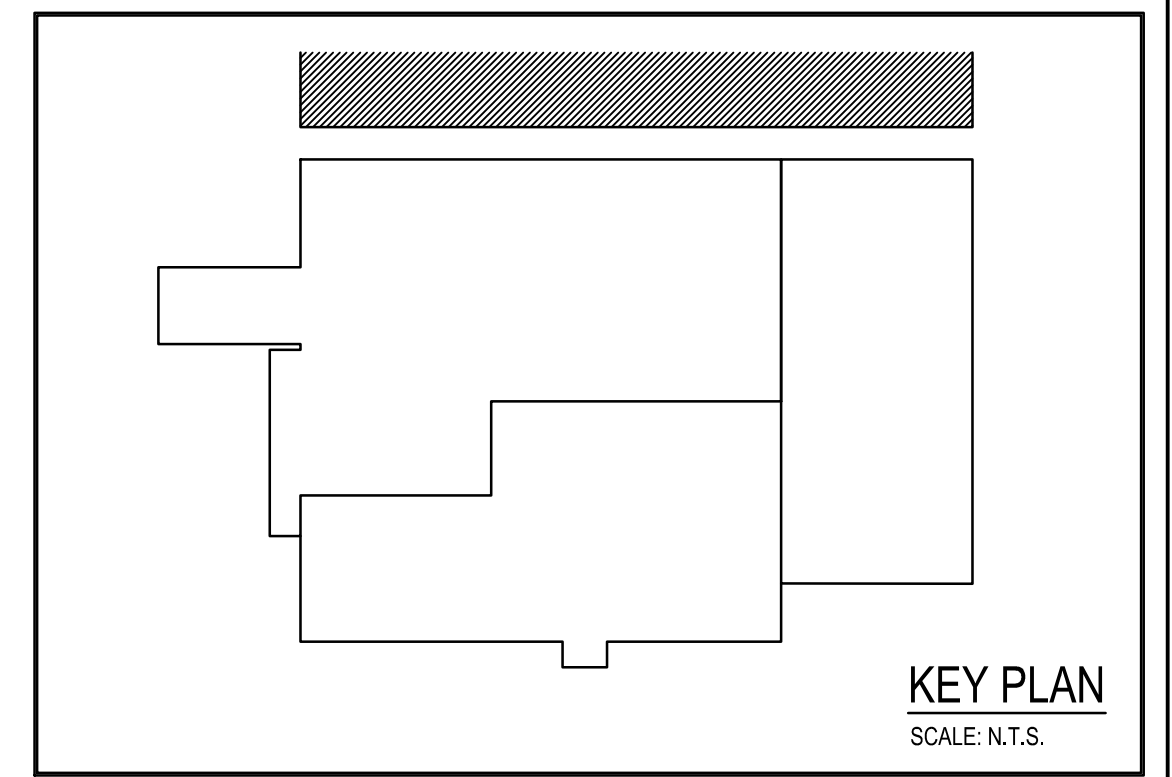
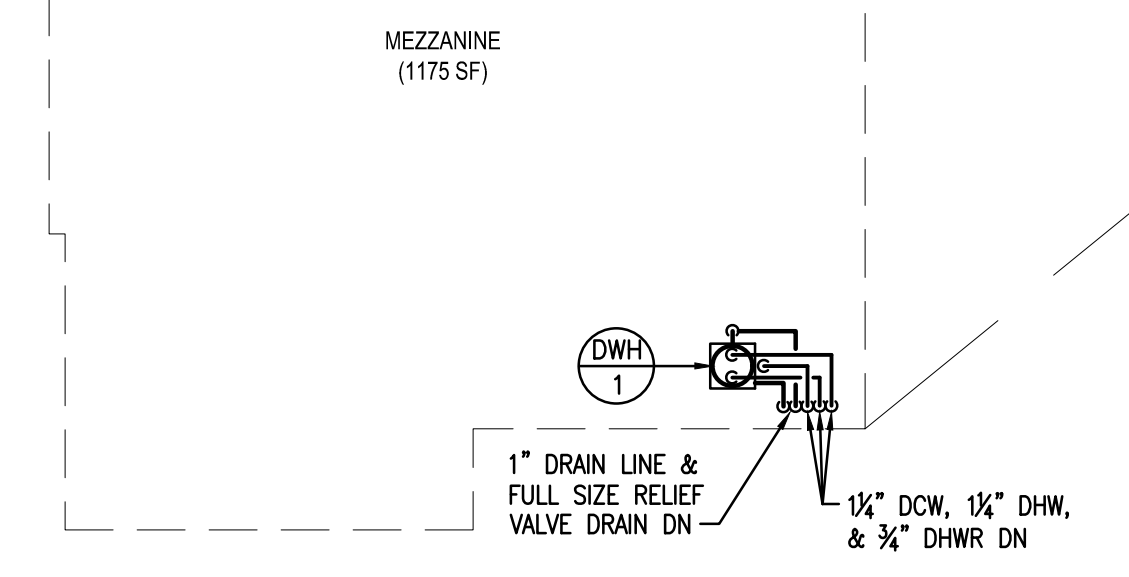
**AEM ARCHITECTS, INC.**  
3700 PERKOWEN AVENUE, READING, PA 19606-2785  
Phone: 610-793-5320 Fax: 610-793-8022 www.aem-arch.com

FLOOR PLAN - PLUMBING  
RENOVATIONS TO THE  
ROCKLAND ST WAREHOUSE  
ALBRIGHT COLLEGE  
1041 EAST ROCKLAND STREET, READING, PA 19604

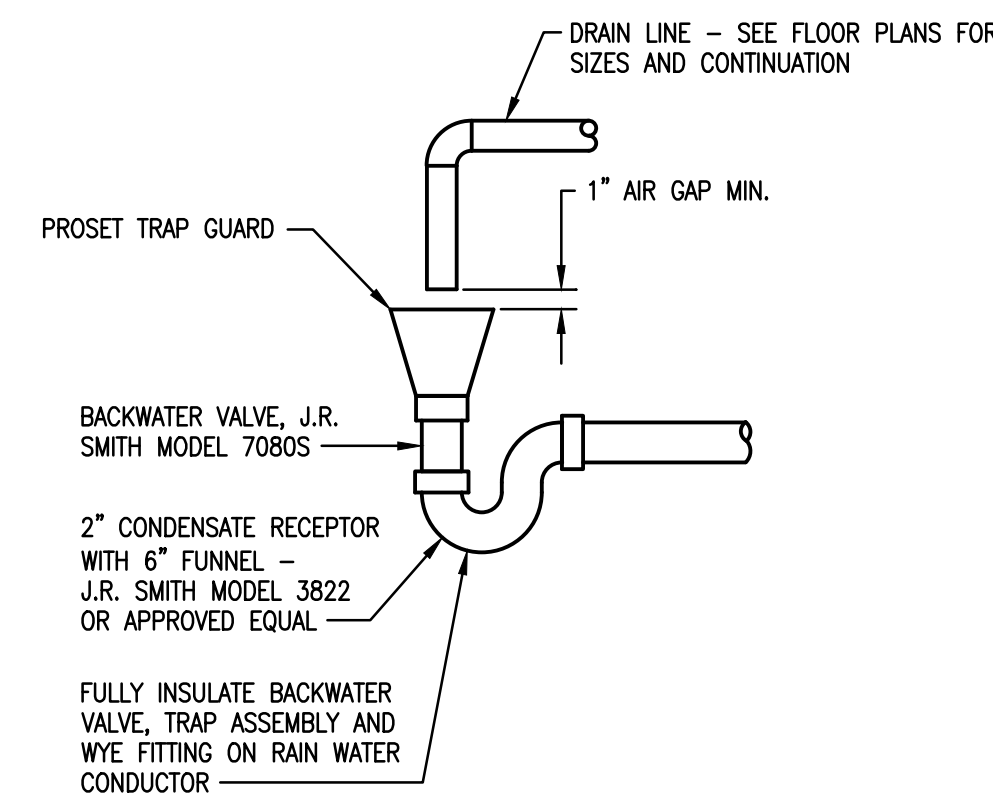
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DATE: 05/10/2021



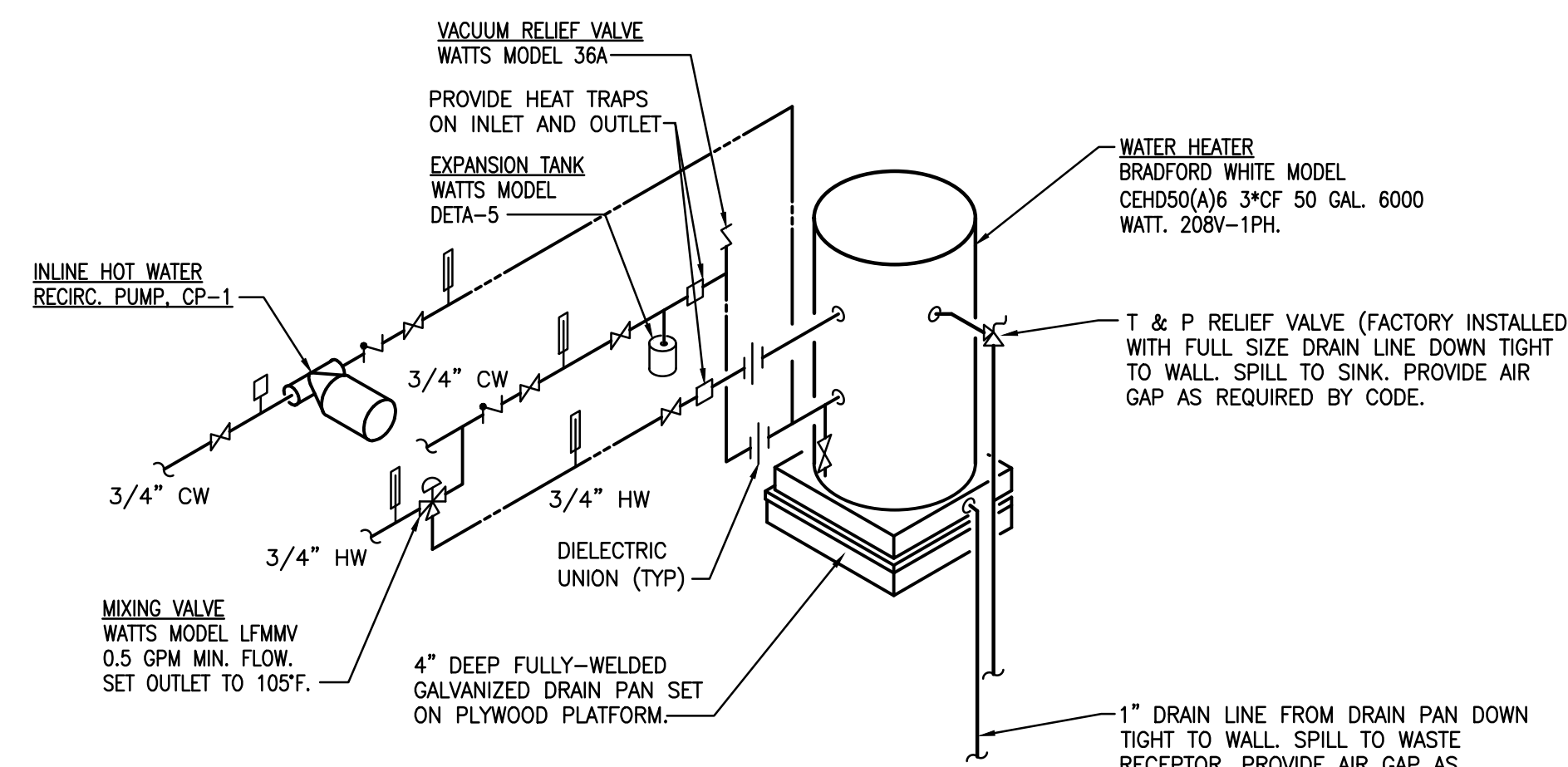
**FIRST FLOOR PLAN - PLUMBING**  
SCALE: 1/8" = 1'-0"



**KEY PLAN**  
SCALE: N.T.S.



**INDIRECT WASTE RECEPTOR (IDW)**  
NO SCALE



**WATER HEATER DETAIL (DWH-1)**  
NO SCALE

**PLUMBING LEGEND**

(ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT)

	2-WAY CONTROL VALVE		DOMESTIC COLD WATER
	MIXING VALVE		DOMESTIC HOT WATER
	BACKFLOW PREVENTER		DOMESTIC HOT WATER RECIRC.
	SAFETY RELIEF VALVE		140°F DOMESTIC HOT WATER
	WATER PRESSURE REDUCING VALVE		140°F DOMESTIC HOT WATER RECIRC.
	BALL OR BUTTERFLY VALVE		SANITARY WASTE
	CALIBRATED BALANCING VALVE		SANITARY WASTE - UNDERGROUND
	CHECK VALVE		SANITARY VENT
	STRAINER		ACID WASTE
	GAS COCK		ACID WASTE VENT
	GAS REGULATOR		NATURAL GAS PIPING
	WATER HAMMER ARRESTOR - SIZE PER PDI STANDARD		DOUBLE WALL CONTAINMENT GAS PIPING - UNDERGROUND
	UNION OR FLANGED CONNECTION		GAS VENT PIPING
	FLEXIBLE PIPE CONNECTION		GAS VENT PIPING - UNDERGROUND
	FLOW METER		LIQUIFIED PETROLEUM GAS PIPING
	SOLENOID VALVE		RAINWATER CONDUCTOR
	PRESSURE GAUGE		RAINWATER CONDUCTOR - BELOW
	THERMOMETER		CONDENSATE DRAIN PIPING
	WATER METER		PUMPED CONDENSATE PIPING
	AQUASTAT		TEMPERED WATER
	NEEDLE VALVE		SOFTENED WATER
	TRAP PRIMER		VACUUM
			COMPRESSED AIR
			PROCESSED RAINWATER
			KEYED DRAWING NOTE
			KEYED DEMOLITION NOTE
			CONNECT TO EXISTING
			EXTENT OF DEMOLITION

**ABBREVIATIONS**

ABV	ABOVE	FCO	FLOOR CLEAN OUT
APPROX	APPROXIMATELY	FD	FLOOR DRAIN
ARCH	ARCHITECTURAL	FLR	FLOOR
AVTR	ACID VENT THRU ROOF	GC	GENERAL CONTRACTOR
BLW	BELOW	HW	HOT WATER
BLDG	BUILDING	HC	HEATING CONTRACTOR
CD	CONDENSATE DRAIN	INV	INVERT
CLG	CEILING	LAV	LAVATORY
CO	CLEAN OUT	MH	MAN HOLE
COND	CONDENSATE	PC	PLUMBING CONTRACTOR
CONN	CONNECT	REQ'D	REQUIRED
CW	COLD WATER	RWC	RAIN WATER CONDUCTOR
DN	DOWN	SAN	SANITARY
DWG	DRAWING	SH	SHOWER
EC	ELECTRICAL CONTRACTOR	TYP	TYPICAL
EL	ELEVATION	UR	URINAL
EQUIP	EQUIPMENT	V	VENT
EXIST	EXISTING	VTR	VENT THRU ROOF
EXP	EXPANSION	WC	WATER CLOSET
		WCO	WALL CLEAN OUT

PLUMBING FIXTURE SCHEDULE									
SYMBOL	FIXTURE	C.W.	H.W.	SAN.	VENT	TRAP	MOUNTING	RIM HEIGHT	REMARKS
F1	LAB SINK	1/2"	1/2"	1-1/2"	1-1/4"	1-1/4" X 1-1/2"	COUNTER	SEE ARCH.	
F2	LAB SINK (ADA)	1/2"	1/2"	1-1/2"	1-1/4"	1-1/4" X 1-1/2"	COUNTER	SEE ARCH.	

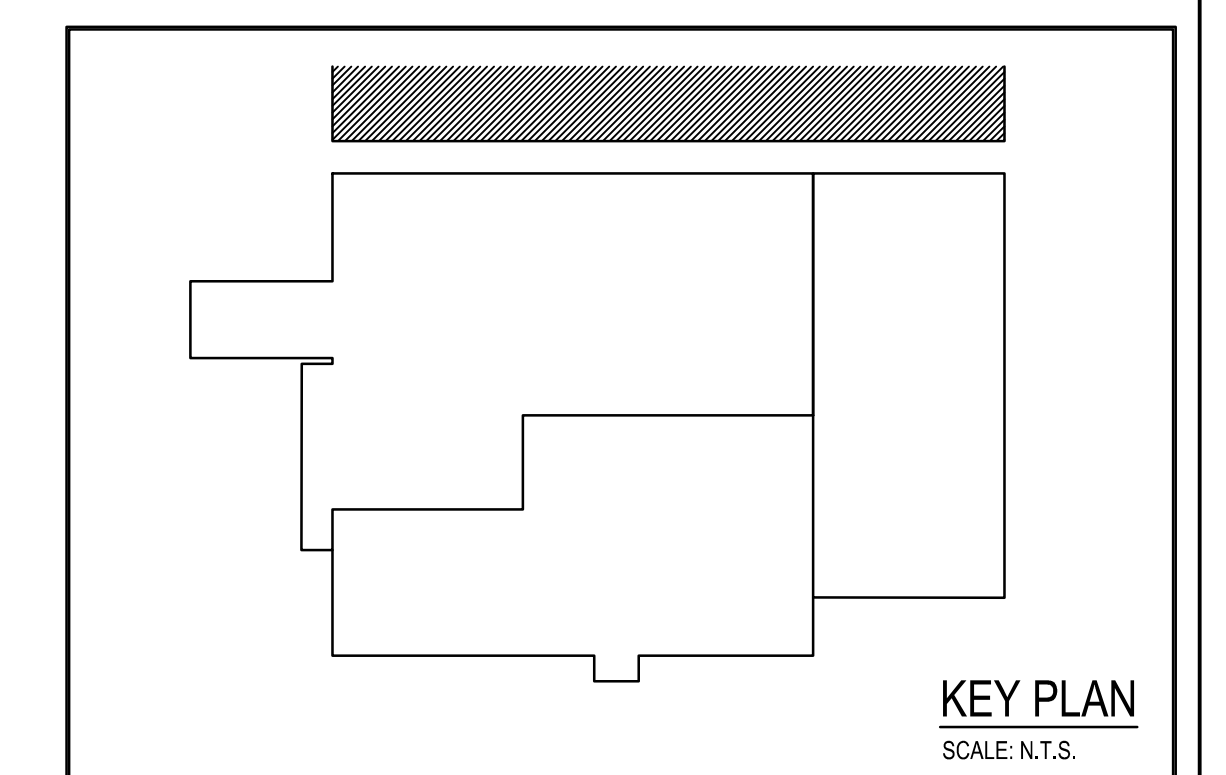
NOTE : ALL SANITARY PIPING LOCATED BELOW GRADE SHALL BE MINIMUM 2" DIAMETER

PUMP SCHEDULE									
SYMBOL	G.P.M.	HEAD	PUMP MOTOR			EFFICIENCY	MODEL	MANUF	REMARKS
			H.P.	R.P.M.	ELECTRIC				
CP-1	3	13	1/12	2650	120-1-60	-	PL30B	BELL & GOSSETT	LEAD FREE BRONZE

**FLOOR DRAINS**

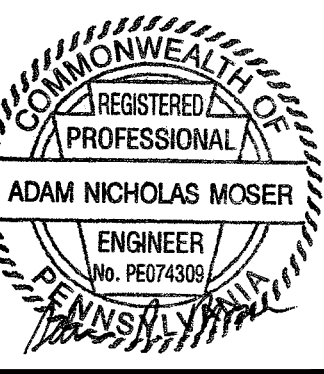
FLOOR DRAIN TYPE DESIGNATIONS AND SIZES ARE INDICATED ON DRAWINGS.

FD1 : CAST-IRON BODY AND FLASHING COLLAR WITH ADJUSTABLE TOP AND TRACTOR GRATE, SEDIMENT BUCKET AND BOTTOM OUTLET. J.R. SMITH MODEL 2230. PROVIDE BARRIER TYPE TRAP SEAL.



**KEY PLAN**  
SCALE: N.T.S.

**ISSUED FOR PERMIT**  
**MAY 10, 2021**



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**PLUMBING DETAILS AND SCHEDULES**  
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