

DOCUMENT 00 90 00
ADDENDUM

ADDENDUM NO. [3] Date: March 5, 2019

**RE: WESTERN TECHNICAL COLLEGE
ARC & WELCOME CENTER REMODELING PHASE 2
400 SEVENTH STREET NORTH
LA CROSSE, WISCONSIN 54601
HSR PROJECT NO. 18047**

**FROM: HSR Associates, Inc
100 Milwaukee Street
La Crosse, WI 54603
(608) 784-1830**

To: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated February 2019. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [2] page, and [9] 30 x 42 drawings.

CHANGES TO DRAWINGS

1. Sheet A000R1 COVER SHEET 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
2. Sheet A090R2 FIRST FLOOR REMOVAL PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
3. Sheet A100R2 FIRST FLOOR REMODELED PLAN – SEG A 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
4. Sheet ID102 FIRST FLOOR FINISH PLAN SEGMENTS A
 - a. At Janitor Closet 102 no trim required at top of tile base.
 - b. At Toilet 1R6 follow elevations from Toilet 1R1 for tile application and pattern.
5. Sheet ID103 FIRST FLOOR FINISH PLAN SEGMENT B
 - a. Add Accent PNT-3 in Classroom 124 on East Wall and PNT-4 in Classroom 126 East Wall.
6. Sheet M091 FIRST FLOOR PIPING REMOVAL PLAN 30 x 42 attached hereto
 - a. Drawing added as part of Contract Documents.
7. Sheet M093 SECOND FLOOR PIPING REMOVAL PLAN 30 x 42 attached hereto
 - a. Drawing added as part of Contract Documents.
8. Sheet M100 COVER SHEET 30 x 42 attached hereto
 - a. Drawing added as part of Contract Documents.
9. Sheet M101 COVER SHEET 30 x 42 attached hereto
 - a. Drawing added as part of Contract Documents.

10. Sheet M400R LARGE SCALE MECHANICAL PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
11. Sheet M600R HVAC SCHEDULES 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.

END OF DOCUMENT 00 90 00

WESTERN TECHNICAL COLLEGE ARC & WELCOME CENTER PHASE 2 REMODEL 400 N. 7TH STREET LACROSSE, WI 54601



ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
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LA CROSSE, WISCONSIN
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18047

FEBRUARY 2019

CD

INDEX OF DRAWINGS

GENERAL

- A000R1 COVER SHEET
- A001R CODE PLAN
- A002 CODE PLAN
- A003 3D VIEWS
- A004R FIRST FLOOR OVERALL PLAN
- A005 SECOND FLOOR OVERALL PLAN

CIVIL

- C100 DEMOLITION PLAN
- C200 LAYOUT PLAN
- C300 GRADING PLAN
- C400 EROSION CONTROL PLAN
- C500 UTILITY PLAN

PROJECT TEAM

- | | |
|----------------------|------------------------|
| PROJECT MANAGER: | DOUG RAMSEY |
| PROJECT ARCHITECT: | MICHELLE MALAND |
| JOB CAPTAIN: | TRENT SCHOTT |
| PROJECT TECHNICIAN: | SETH WADDELL |
| SPECIFICATIONS: | RON KNAPMILLER |
| INTERIOR DESIGNER: | KYLIE VEERKAMP |
| PLUMBING ENGINEER: | RYAN JOHNSON |
| MECHANICAL ENGINEER: | KIM LEE |
| ELECTRICAL ENGINEER: | PAT POPOWICH (GALILEO) |
| CIVIL ENGINEER: | JIM LUNDBERG (POB) |
| STRUCTURAL ENGINEER: | JEFF PERRIN (RASMITH) |
| CONSTRUCTION ADMIN: | CHRIS HACKNER |

ARCHITECTURAL

- A090R2 FIRST FLOOR REMOVAL PLAN
- A091R SECOND FLOOR REMOVAL PLAN
- A100R2 FIRST FLOOR REMODELED PLAN - SEG A
- A101R1 FIRST FLOOR REMODELED PLAN - SEG B
- A102R1 SECOND FLOOR REMODELED PLAN - SEG A
- A103R SECOND FLOOR REMODELED PLAN - SEG B
- A110R1 FIRST FLOOR RCP - SEG A
- A111R FIRST FLOOR RCP - SEG B
- A112 SECOND FLOOR RCP - SEG A
- A113 SECOND FLOOR RCP - SEG B
- A120 ROOF PLANS AND DETAILS
- A200R ELEVATIONS
- A210R1 CASEWORK ELEVATIONS & DETAILS
- A211R INTERIOR ELEVATIONS
- A300 SECTIONS
- A301R1 SECTIONS
- A302 SECTIONS
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INTERIOR DESIGN

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- ID102R1 FIRST FLOOR FINISH PLAN-SEG A
- ID103R FIRST FLOOR FINISH PLAN-SEG B
- ID104R OVERALL SECOND FLOOR FINISH PLAN
- ID105R SECOND FLOOR FINISH PLAN-SEG A
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- S100R FOUNDATION PLAN & DETAILS
- S200R FRAMING PLAN
- S810R FRAMING DETAILS

PLUMBING

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- P090R UNDERFLOOR REMOVAL PLAN
- P091R FIRST FLOOR REMOVAL PLAN
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- P100R1 UNDERFLOOR REMODEL PLAN
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- P201R1 WATER RISER ISOMETRIC

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- FP102 SECOND FLOOR FIRE PROTECTION PLAN

MECHANICAL

- M001 HVAC GENERAL INFO SHEET
- M090 FIRST FLOOR HVAC REMOVAL PLAN
- M091 FIRST FLOOR PIPING REMOVAL PLAN
- M092 SECOND FLOOR HVAC REMOVAL PLAN
- M093 SECOND FLOOR PIPING REMOVAL PLAN
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- M103 SECOND FLOOR PIPING REMODEL PLAN
- M400 LARGE SCALE MECHANICAL ROOM PLAN
- M500 CHILLER PIPING ISOMETRIC
- M501 HVAC DETAILS
- M600 HVAC SCHEDULES

ELECTRICAL

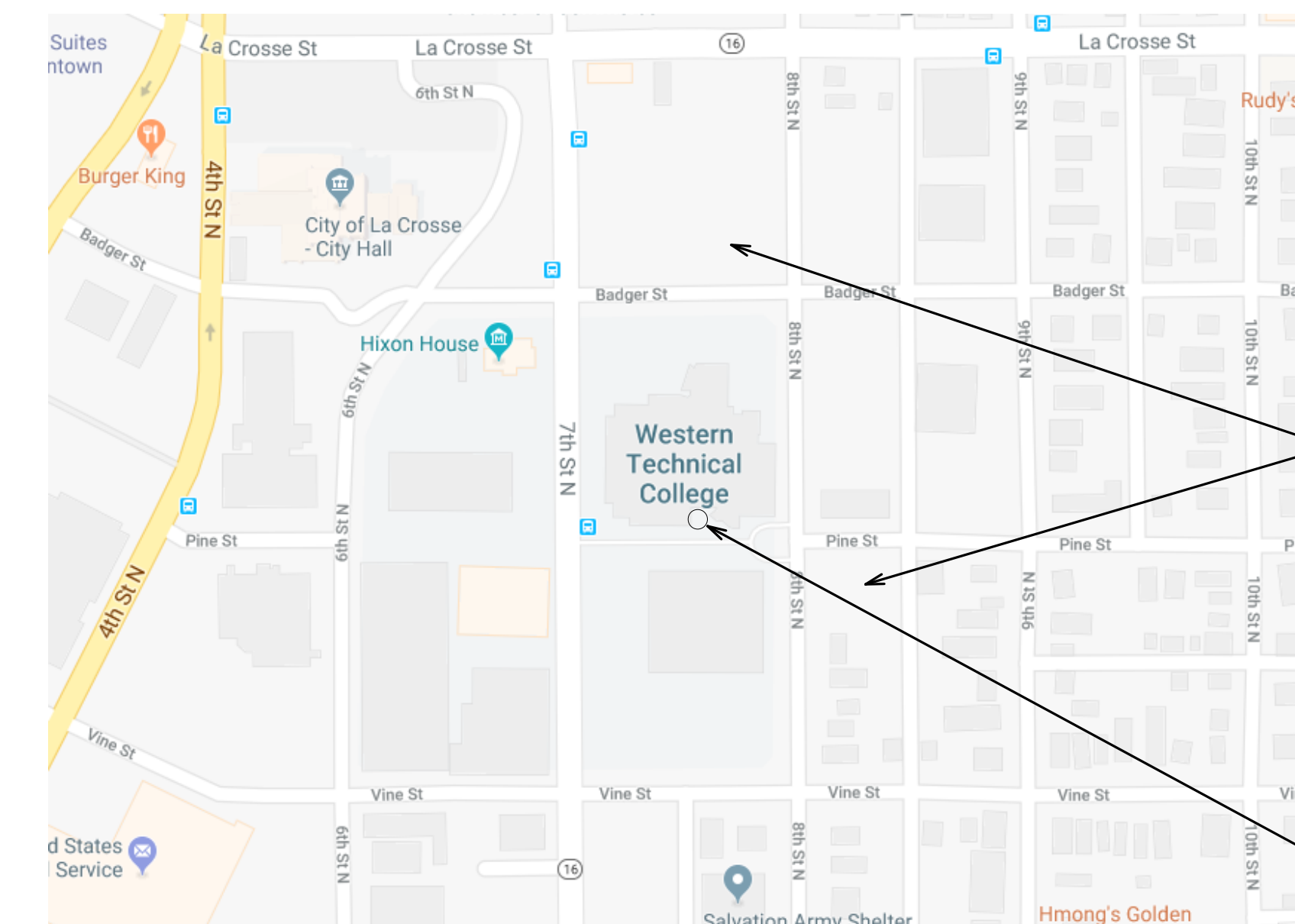
- E000 ELECTRICAL SYMBOL LEGEND AND SHEET INDEX
- E001 FIRST FLOOR REMOVAL PLAN
- E002 SECOND FLOOR REMOVAL PLAN
- E100 ELECTRICAL SITE PLAN
- E101 PARTIAL FIRST FLOOR LIGHTING PLAN
- E102 PARTIAL SECOND FLOOR LIGHTING PLAN
- E200 PARTIAL LOWER LEVEL POWER PLAN
- E201 PARTIAL FIRST FLOOR POWER PLAN
- E202 PARTIAL SECOND FLOOR POWER PLAN
- E203 ENLARGED MECHANICAL ROOMS
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- E401 ELECTRICAL DETAILS
- E402 ELECTRICAL DETAILS
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- E501 ELECTRICAL SCHEDULES
- E502 ELECTRICAL SCHEDULES

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- FA01 PARTIAL FIRST FLOOR FIRE ALARM PLAN
- FA02 PARTIAL SECOND FLOOR FIRE ALARM PLAN



TO BE ISSUED BY ADDENDUM



MOBILIZING & STAGING

PROJECT LOCATION

CITY MAP
LA CROSSE, WISCONSIN

WESTERN TECHNICAL COLLEGE
ARC & WELCOME CENTER PHASE 2 REMODEL

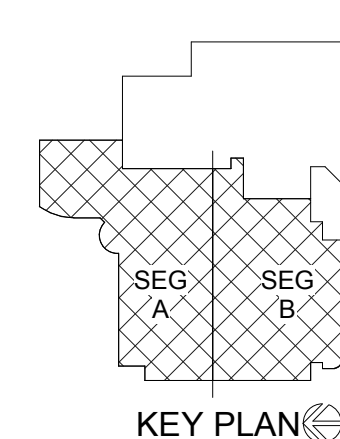
COVER SHEET

Project Number: 18047

Project Date: 2-12-19

Drawn By: HSR

Key Plan:



No.	Description	Date
A1	ADDENDUM #1	02/22/19
A3	ADDENDUM #3	03/5/19

Graphic Scale: VARIES

Last Update: 3/5/2019 1:28:59 PM

A000R1



Consultant:

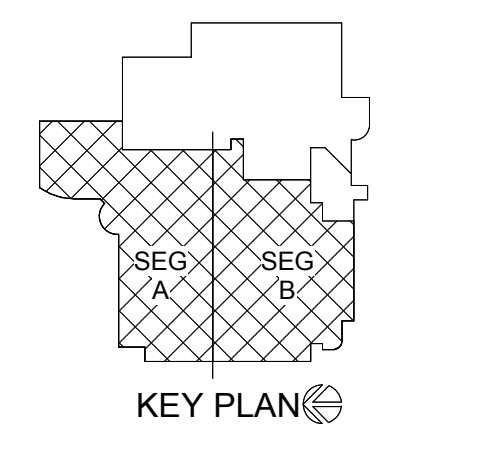
Project Title: WESTERN TECHNICAL COLLEGE
ARC & WELCOME CENTER PHASE 2 REMODEL
Project Location: 400 N. 7TH STREET
LA CROSSE, WI 54601
Sheet Title: FIRST FLOOR REMOVAL PLAN

HSR Project Number: 18047

Project Date: 2-12-19

Drawn By: TBS

Key Plan:



No.	Description	Date
A1	ADDENDUM #1	02/22/19
A2	ADDENDUM #2	02/28/19
A3	ADDENDUM #3	03/05/19

Graphic Scale:

Last Update: 3/5/2019 8:05:57 AM

A090R2

- REMOVAL GENERAL NOTES:**
- A ALL STRUCTURES SHOWN DASHED ON THIS PLAN SHALL BE COMPLETELY REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE NOTED. REFERENCE MEP SHEETS FOR ALL EQUIPMENT REMOVALS AND MODIFICATIONS. TIME AND METHODS SHALL BE COORDINATED WITH AND AGREED TO BY THE OWNER AND ARCHITECT. THIS SHALL INCLUDE ALL ELECTRICAL, MECHANICAL OR PLUMBING WITHIN THE REMOVED STRUCTURE. TERMINATE AND CAP MEP AS REQUIRED. DO NOT ABANDON IN PLACE UNLESS CONDUIT, PIPE, ETC. REMOVE COMPLETELY. VERIFY GENERAL CONDITIONS IN FIELD PRIOR TO BIDDING.
 - B PREPARATION FOR NEW FINISHES SHALL INCLUDE BUT NOT LIMITED TO REMOVAL OF EXISTING FINISHES, REMOVAL OF TAPES, GLUES (MASTIC), NAILS, ETC. PATCHING OF HOLES AND CRACKS TO PROVIDE AN ACCEPTABLE SURFACE FOR NEW FINISH INSTALLATION.
 - C OWNER WILL REMOVE LOOSE FURNISHINGS AND EQUIPMENT FROM THE WORK AREA PRIOR TO START OF CONSTRUCTION.
 - D DELIVERY ROUTE AND TIMES FOR NEW MATERIALS AND EQUIPMENT SHALL BE COORDINATED WITH AND AGREED TO BY THE OWNER.
 - E CONTRACTORS SHALL BE REQUIRED TO USE EFFECTIVE MEASURES TO AVOID SPREADING/TRACKING DUST AND DEBRIS OUTSIDE THE WORK SPACE. REFER TO GENERAL REQUIREMENTS.
 - F MAINTAIN ALL EXIT DOORS AND CORRIDORS IN UNOBSTRUCTED OPERABLE CONDITION WITH SAFE PASSAGE AWAY FROM THE BUILDING. COORDINATE WITH LOCAL FIRE MARSHAL AS REQUIRED.
 - G ROOM NUMBERS ARE SHOWN ON THIS PLAN FOR INFORMATIONAL AND COORDINATION PURPOSES ONLY.
 - H TEMPORARY UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. ENSURE ADEQUATE LIGHTING, ETC. ALL REQUIRED SERVICES TO OTHER PARTS OF THE BUILDING SHALL BE MAINTAINED. COORDINATE ANY REQUIRED SHUTDOWNS OF POWER, COMMUNICATIONS, WATER, WASTE, HEATING OR VENTILATING WITH THE OWNER A MIN. OF 72 HOURS IN ADVANCE.
 - J SEE MECHANICAL, PLUMBING AND ELECTRICAL SHEETS FOR ADDITIONAL REMOVAL NOTES AND ITEMS.
 - K COORDINATE REMOVAL AND PATCHING WITH MEP DRAWINGS. PATCH TO MATCH EXISTING ADJACENT CONDITIONS.
 - L BIDDERS SHALL MAKE EVERY EFFORT TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING.
 - M COORDINATE STORAGE LOCATIONS FOR SALVAGED EQUIPMENT, ACCESSORIES, ETC. WITH THE OWNER. SALVAGED ITEMS SHALL BE PLACED AT A COMMON LOCATION INDICATED BY OWNER.
 - N PROVIDE FLOOR PROTECTION AS SPECIFIED AT DEBRIS REMOVAL PATHS THROUGH BUILDING. REFER TO GENERAL REQUIREMENTS.
 - P MATERIAL PENETRATIONS SHALL BE COMPLETED BY THE DISCIPLINE DOWING THE WORK EXCEPT AS NOTED. REFER TO GENERAL REQUIREMENTS.
 - Q ALL WOOD BULLNOSE TRIM IS TO BE REMOVED FROM AREAS OF WORK.
 - R ALL GYP. BOARD SOFFITS AND BULKHEADS TO REMAIN UNLESS NOTED OTHERWISE.
 - S ALL NOTED WALL MOUNTED FIXTURES (ie MARKER BOARDS, CLOCKS, SIGNS, ETC.) SHALL BE REMOVED BY THE CONTRACTOR AND SALVAGED TO OWNER FOR REUSE.

- REMOVAL PLAN LEGEND:**
- SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
 - REMOVE ITEMS NOTED WITH DASHED LINES
 - SYMBOL INDICATES REMOVAL OF DOOR AND FRAME UNLESS NOTED OTHERWISE

- KEY NOTES REMOVAL**
- 1 REMOVE GYP AND METAL STUD WALL.
 - 2 REMOVE DOOR AND FRAME.
 - 3 REMOVE STOREFRONT GLAZING SYSTEM.
 - 4 REMOVE GLAZING SYSTEM AND PREP FOR NEW DOOR, SEE REMODELED PLAN.
 - 5 REMOVE BRICK CAVITY WALL, SHORE AS REQUIRED, MATCH OPENING SIZE OF SECOND FLOOR CURVED OPENINGS.
 - 6 SYSTEM FURNITURE TO BE REMOVED BY OWNER.
 - 7 REMOVE PLUMBING FIXTURE - SEE PLUMBING SHEETS FOR ADDL INFORMATION.
 - 8 REMOVE BRICK W/MTL STUD BACKUP UP TO PRECAST ABOVE.
 - 9 REMOVE BUILT-IN CASEWORK.
 - 10 REMOVE CEILING TILES AND GRID IN THIS ROOM.
 - 11 EXTENTS OF CEILING REMOVAL.
 - 12 REMOVE CEILING TILES AND GRID THIS LOCATION ONLY.
 - 13 REMOVE CEILING TILES, GRID TO REMAIN, MODIFY AS REQUIRED FOR NEW ROOM LAYOUT.
 - 14 REMOVE FLOOR FINISH AND PREP FOR NEW FINISH. SEE ID PLANS FOR NEW FINISHES.
 - 15 REMOVE HOLLOW METAL FRAME AND GLAZING.
 - 16 REMOVE ALL TOILET AND URINAL PARTITIONS.
 - 17 REMOVE GYP SOFFIT/BULKHEAD.
 - 18 REMOVE HALF HEIGHT GYP AND METAL STUD WALL AND RELATED BUILT IN CASEWORK.
 - 19 REMOVE COUNTER TOP, BACKSPLASH AND RELATED HARDWARE.
 - 20 REMOVE PRECAST PANELS AT COLUMN LOCATION.
 - 21 EXTENTS OF FLOOR REMOVAL FOR RECESSED MOP BASIN - SEE PLUMBING FOR ADDL INFORMATION.
 - 22 REMOVE STUCCO/EIFS PARAPET WALL AND RELATED FRAMING. SALVAGE SIGNAGE LETTERS TO OWNER.
 - 23 REMOVE CONCRETE FLOOR SLAB FOR NEW PLUMBING CONNECTIONS. SEE PLUMBING FOR EXTENTS OF WORK.
 - 24 REMOVE TILE AND GYP FROM EXISTING WALLS IN TOILET ROOM.
 - 25 REMOVE STOREFRONT GLAZING SYSTEM. SALVAGE TO OWNER.
 - 26 REMOVE BOOK DROP.
 - 27 REMOVE CONCRETE FLOOR TO NEW ELECTRICAL ROOM - SEE ELEC FOR EXTENTS OF REMOVAL.
 - 28 REMOVE MOP BASIN - SEE PLUMBING.
 - 29 REMOVE MARKER BOARDS AND SALVAGE TO OWNER.
 - 30 REMOVE BULLITIN BOARD AND SALVAGE TO OWNER.
 - 31 REMOVE SMART BOARD AND SALVAGE TO OWNER.
 - 32 REMOVE AUTO OPERATOR FROM THIS DOOR AND SALVAGE FOR REUSE.
 - 33 REMOVE "WELCOME CENTER" SIGNAGE FROM LOWER PRECAST SECTION - SALVAGE TO OWNER, FILL AND PATCH ANCHOR HOLES TO MATCH EXISTING PRECAST COLOR.
 - 34 REMOVE CONCRETE FLOOR FOR NEW WATER SERVICE - SEE PLUMBING FOR EXTENTS OF REMOVAL.
 - 35 REMOVE GYP WALL AND FIN TUBE BEHIND STORFRONT.



1 FIRST FLOOR REMOVAL PLAN
1" = 10'-0"



Consultant:

WESTERN TECHNICAL COLLEGE
ARC & WELCOME CENTER PHASE 2 REMODEL

Project Location: 400 N. 7TH STREET
LA CROSSE, WI 54601

FIRST FLOOR REMODELED PLAN - SEG A

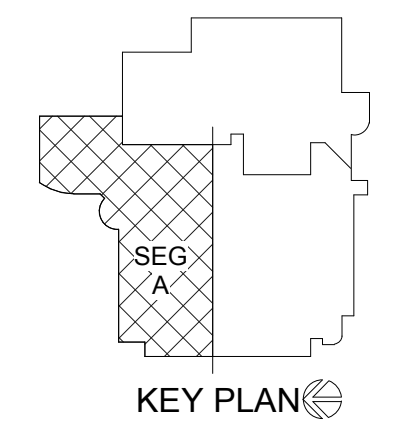
Project Title:

HSR Project Number: 18047

Project Date: 2-12-19

Drawn By: TBS/SRW

Key Plan:



KEY PLAN

No.	Description	Date
A1	ADDENDUM #1	02/22/19
A2	ADDENDUM #2	02/28/19
A3	ADDENDUM #3	03/05/19

Graphic Scale: 0 2' 4' 8' 12'

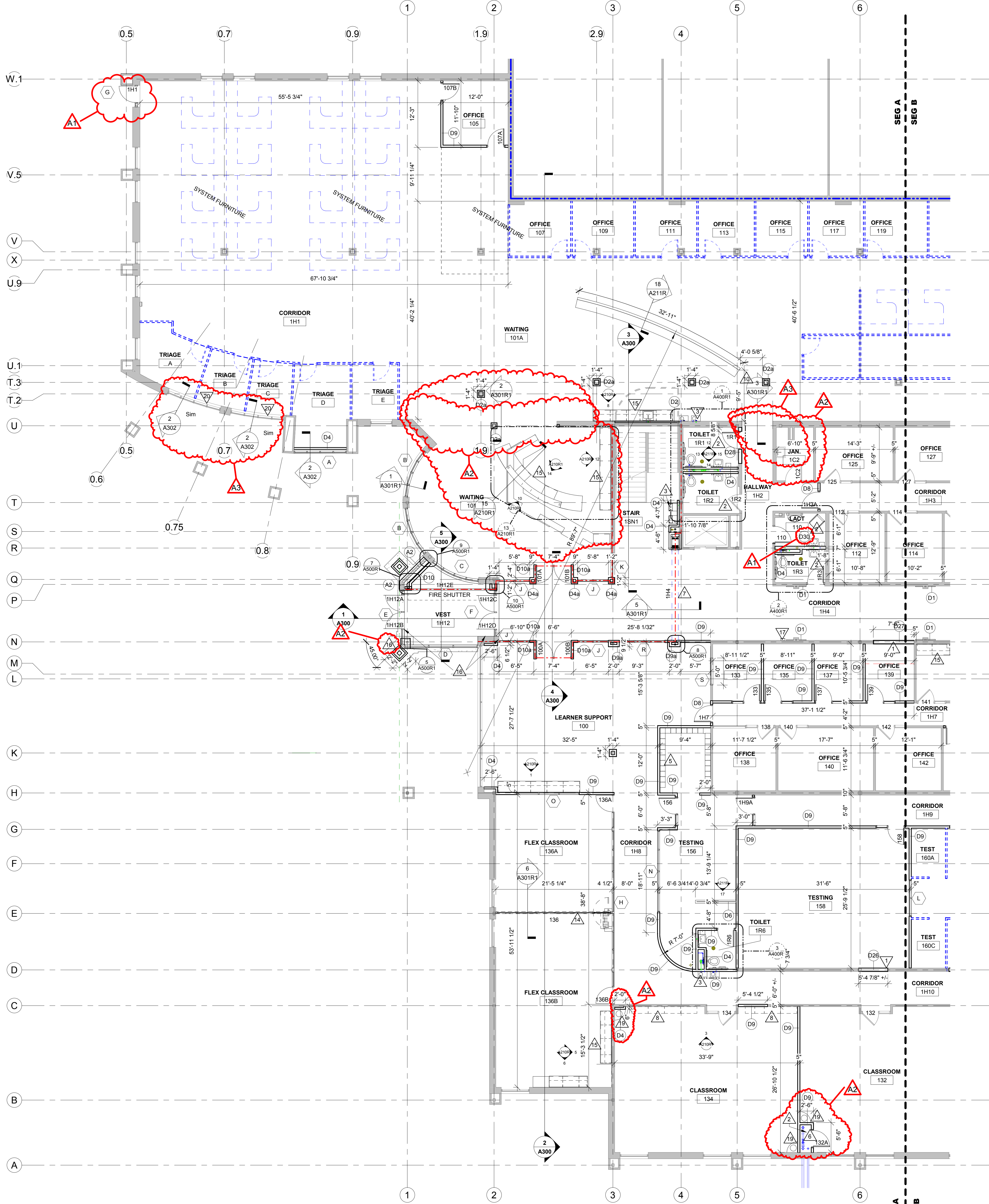
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A100R2

- GENERAL NOTES:**
- A SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.
 - B LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
 - C VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC. OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.
 - D PAINT ALL EXPOSED STEEL LINTELS.
 - E INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS TWO TILE AND AT DOOR JAMBS AS DETAILED. NO BULLNOSE AT WINDOW JAMBS.
 - F SEE STRUCTURAL FOR SLAB CONTROL JOINTS.
 - G SEE A510 FOR WALL CONTROL JOINT DETAILS. SEE PLANS AND ELEVATIONS FOR CJ LOCATIONS. CJ = CONTROL JOINTS.
 - H REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
 - I EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE. SEE A500 FOR TOP OF WALL DETAILS.
 - J UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" - 1/2" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS.
 - K FIXED EQUIPMENT IS SHOWN ON THIS PLAN FOR COORDINATION. SEE SHEETS A130/A133 FOR ALL EQUIPMENT NOTES.
 - L SEE A500 FOR TYPICAL HEAD FLASHING AND THROUGH-WALL FLASHING ISOMETRIC DETAILS.
 - M GEN. CONTRACTOR TO PROVIDE CONC. EQUIP. PADS/CURBS AS REQUIRED FOR MECHANICAL EQUIP. - VERIFY SIZE/PROFILE/LOCATION WITH MECHANICAL.

- LEGEND:**
- (A) SYMBOL INDICATES WALL TYPE - SEE SHEET A500 FOR WALL TYPE DETAILS.
 - (A) SYMBOL INDICATES WINDOW TYPE. SEE SHEET A500 FOR WINDOW FRAME ELEVATIONS.
 - (A) SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
 - 1 HOUR WALL
 - 2 HOUR WALL
 - DENOTES SYSTEM FURNITURE BY OWNER
 - DENOTES SYSTEM FURNITURE DOORS BY OWNER

- KEY NOTES PLAN**
- 1 MODIFY WALL THICKNESS AS REQUIRED TO MATCH ADJACENT WALLS
 - 2 NEW CONC. SLAB FOR NEW PLUMBING CONNECTION. VERIFY EXACT LOCATION W/ PLUMBING. PATCH FLOOR WITH 4" CONC. AND #4 REBAR DOWELED INTO EXISTING SLAB 2'-0" O.C. MATCH ADJACENT EXISTING FLOOR FINISH
 - 3 DRINKING FOUNTAIN
 - 4 NOT USED
 - 5 12 X 12 LOCKERS
 - 6 NEW PLUMBING CHASE FOR NEW WELL PIPING - SEE PLUMBING
 - 7 FOLDING ACCORDIAN FIRE DOOR
 - 8 UPPER CASE WORK ONLY
 - 9 4" CONCRETE HOUSE KEEPING PADS. VERIFY SIZE AND LOCATION WITH MEP
 - 10 CONCRETE INFILL FOR UNDERSLAB ELECTRICAL WORK - SEE ELECTRICAL
 - 11 NEW ALUMINUM SUN SHADE
 - 12 EXISTING ROOF ACCESS LADDER
 - 13 METAL RAILING TO MATCH ADJACENT EXISTING RAILING
 - 14 FOLDING GLASS PANEL DOOR W/ INTEGRAL SWING DOOR
 - 15 PLUM CASEWORK - SEE ELEV. A210
 - 16 PUSH PLATE FOR DOOR AUTO OPERATOR
 - 17 SEMI RECESSED FIRE EXTINGUISHER CABINET
 - 18 ADD MOP AND BROOM HOLDERS TO WALL
 - 19 MECH DIFFUSER. VERIFY LOCATION WITH MECH
 - 20 VERIFY HEIGHT OF SILL (3'-6"). MATCH EXISTING. SOLID SURFACE SILL AT TOP OF WALL



1 FIRST FLOOR REMODELED PLAN - SEG A
1/8" = 1'-0"



WESTERN TECHNICAL COLLEGE
ARC PHASE 2 REMODEL

Project Location: 400 N. 7TH STREET
LA CROSSE, WI 54601

FIRST FLOOR PIPING REMOVAL PLAN

Project Title:
HSR Project Number: 18047

Project Date: FEBRUARY 2019

Drawn By: kkl

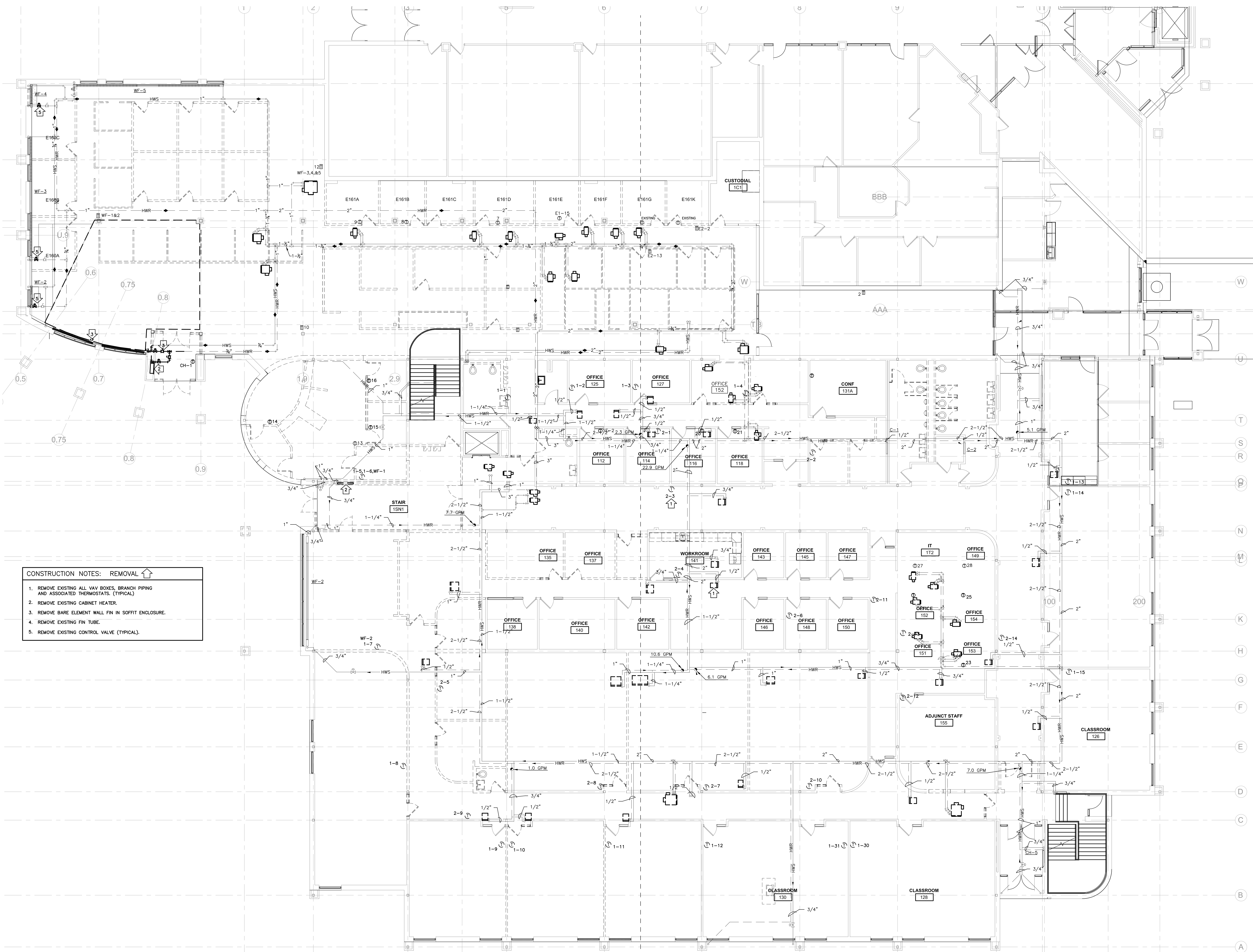
Key Plan:

No.	Description	Date
A3	ADDENDUM #3	3/1/2019

Graphic Scale:
VARIES

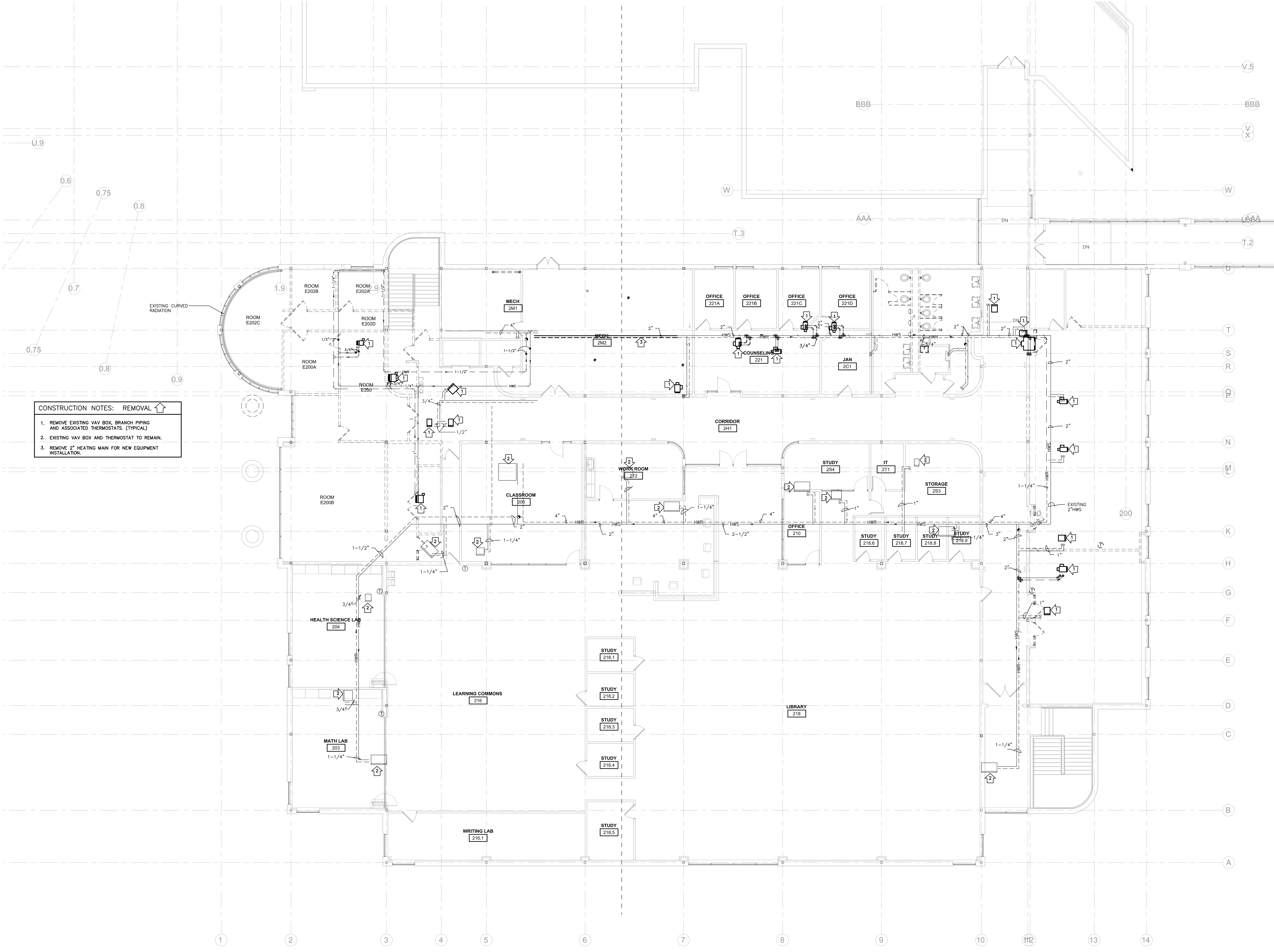
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3/1/2019

M091



- CONSTRUCTION NOTES: REMOVAL**
1. REMOVE EXISTING ALL VAV BOXES, BRANCH PIPING AND ASSOCIATED THERMOSTATS (TYPICAL)
 2. REMOVE EXISTING CABINET HEATER.
 3. REMOVE BARE ELEMENT WALL FIN IN SOFFIT ENCLOSURE.
 4. REMOVE EXISTING FIN TUBE.
 5. REMOVE EXISTING CONTROL VALVE (TYPICAL).

1 FIRST FLOOR HVAC PIPING REMOVAL PLAN
1/8" = 1'-0"



CONSTRUCTION NOTES: REMOVAL

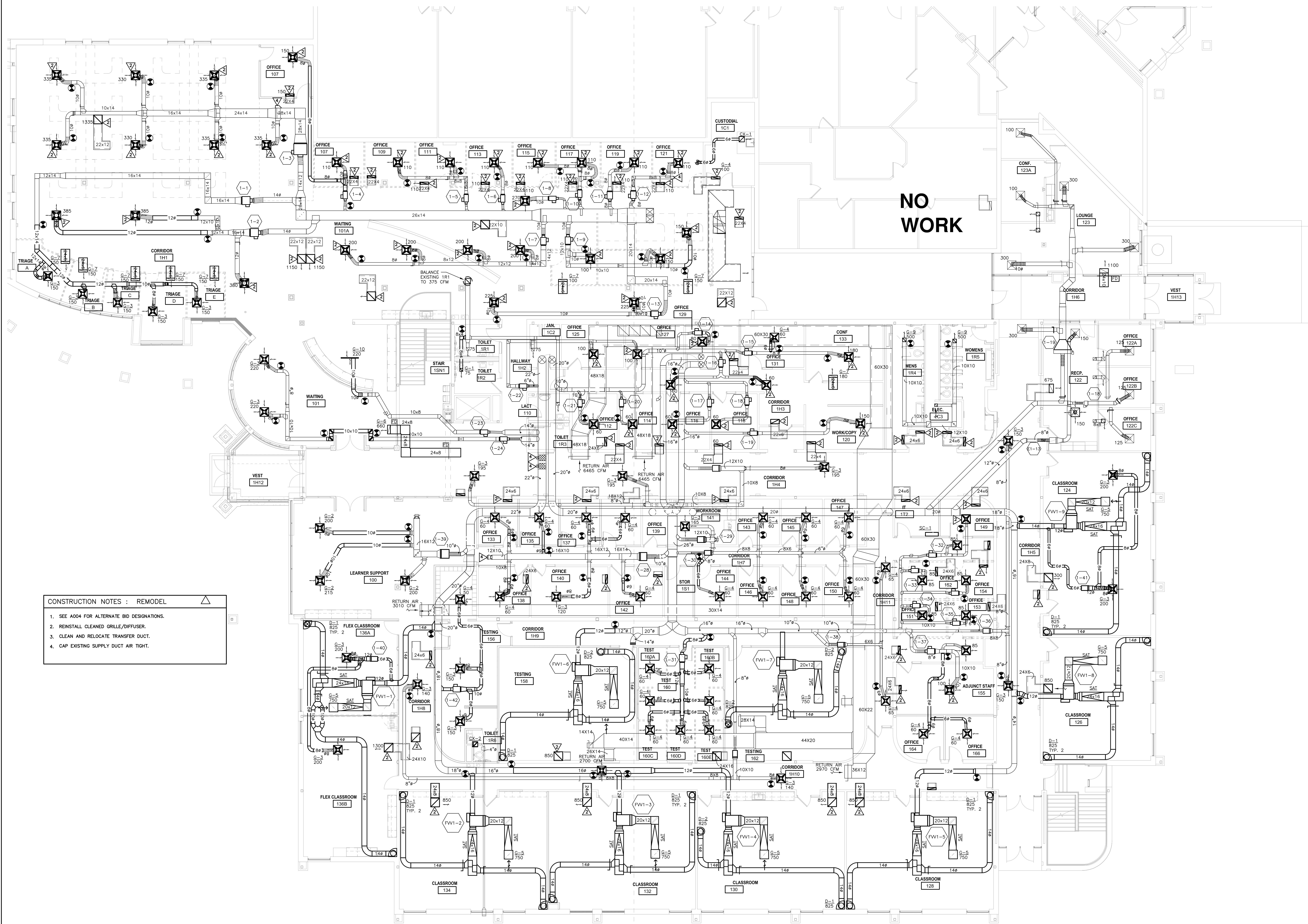
1. REMOVE EXISTING VAV BOX, BRANCH PIPING AND ASSOCIATED THERMOSTATS. (TYPICAL)
2. EXISTING VAV BOX AND THERMOSTAT TO REMAIN.
3. REMOVE 2" HEATING MAIN FOR NEW EQUIPMENT INSTALLATION.

1 SECOND FLOOR HVAC PIPING REMOVAL PLAN
1/8" = 1'-0"

M093

No.	Description	Date
A3	ADDENDUM #3	3/1/2019

Graphic Scale:
VARIES
Last Update:
3/1/2019



CONSTRUCTION NOTES : REMODEL

1. SEE A004 FOR ALTERNATE BID DESIGNATIONS.
2. REINSTALL CLEANED GRILLE/DIFFUSER.
3. CLEAN AND RELOCATE TRANSFER DUCT.
4. CAP EXISTING SUPPLY DUCT AIR TIGHT.

**WESTERN TECHNICAL COLLEGE
ARC PHASE 2 REMODEL
FIRST FLOOR HVAC DUCTWORK REMODEL PLAN**

Project Title:
Project Number:
Project Date:
Drawn By:
Key Plan:

18047
FEBRUARY 2019
kkl

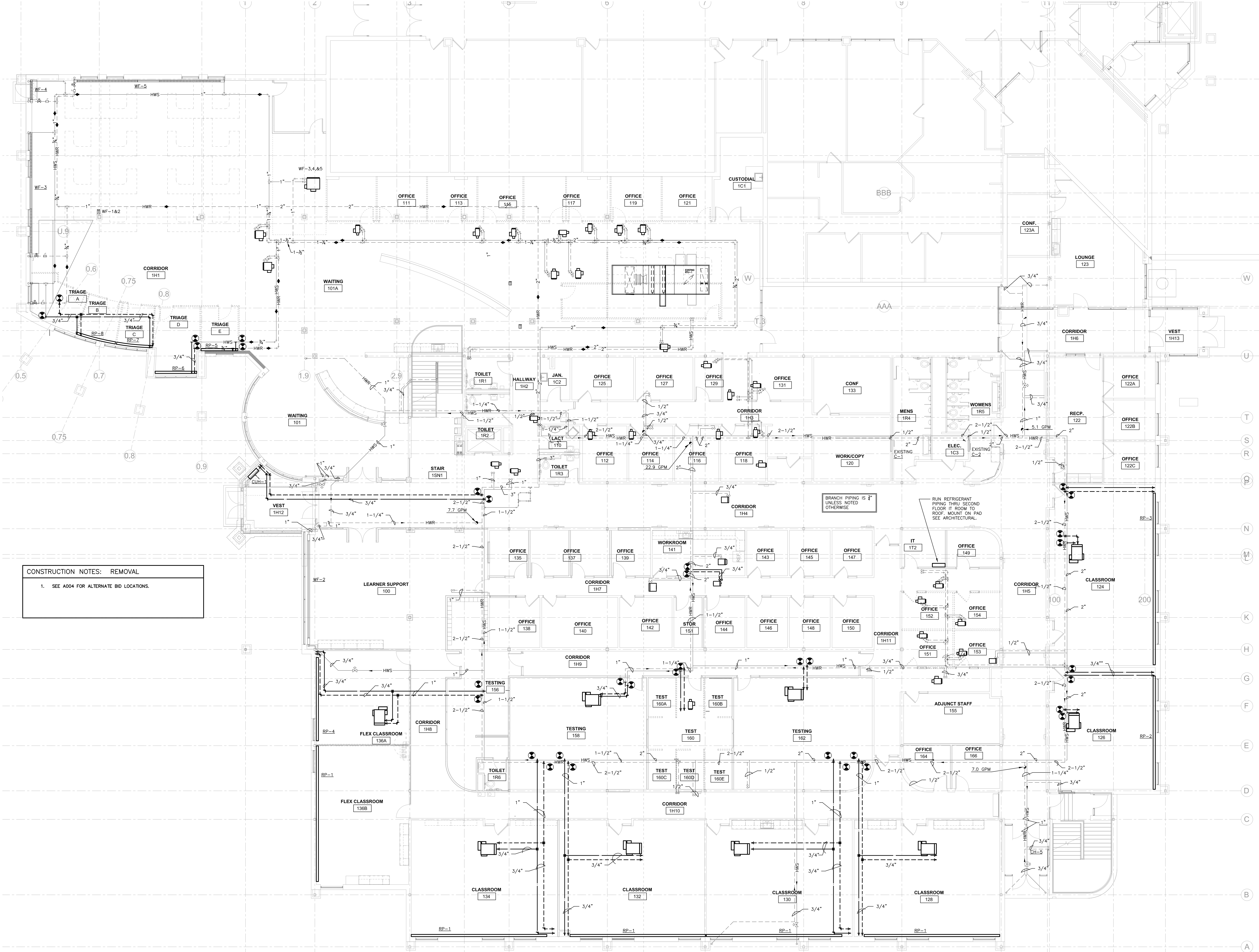
No.	Description	Date
A3	ADDENDUM #3	3/5/2019

Graphic Scale:
Last Update:

VARIES
3/5/2019

1 FIRST FLOOR HVAC DUCTWORK REMODEL PLAN
1/8" = 1'-0"

M100



CONSTRUCTION NOTES: REMOVAL
1. SEE A004 FOR ALTERNATE BID LOCATIONS.

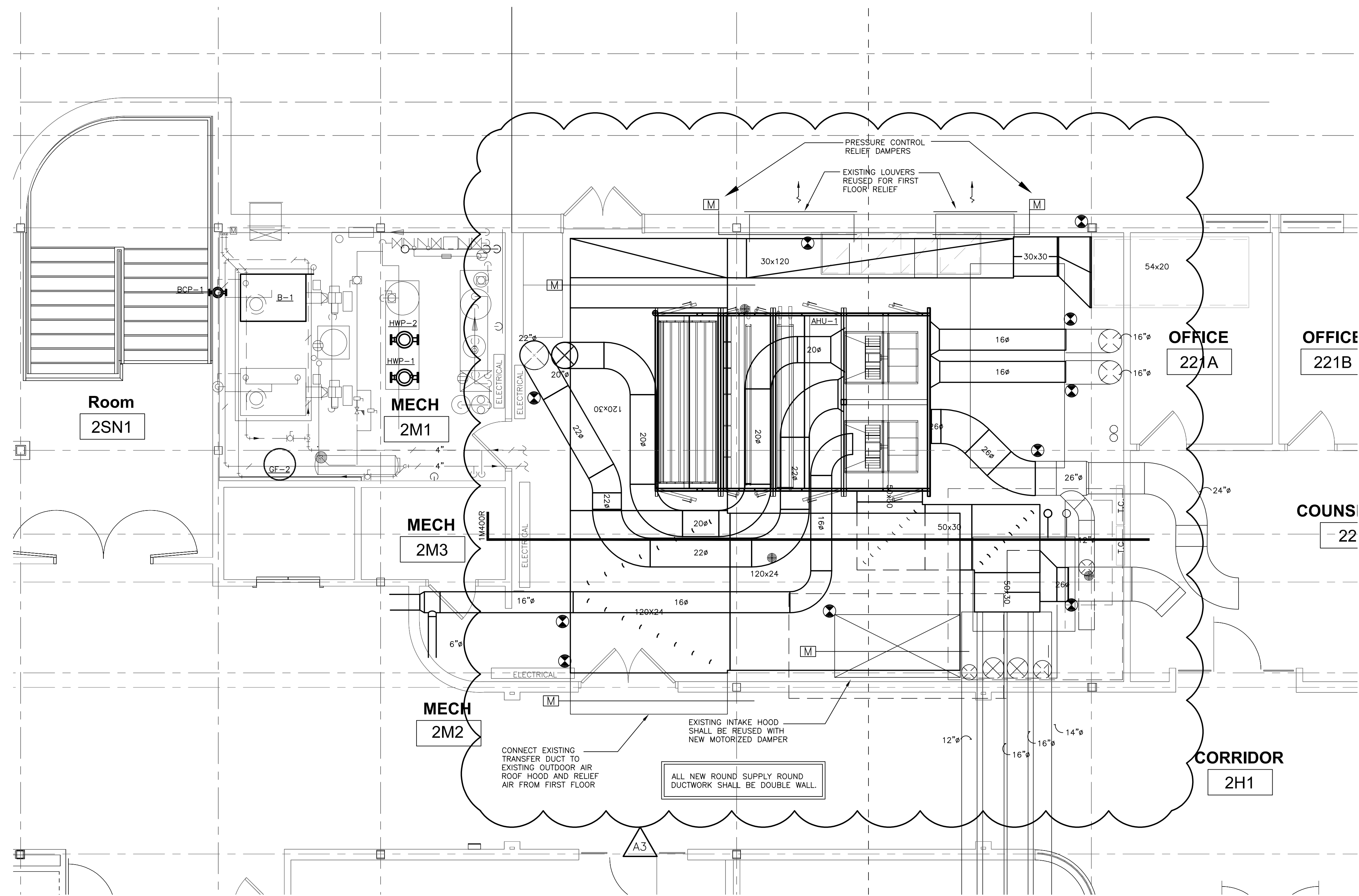
Project Title: **WESTERN TECHNICAL COLLEGE
ARC PHASE 2 REMODEL
FIRST FLOOR PIPING REMODEL PLAN**
Project Location: 400 N. 7TH STREET
LA CROSSE, WI 54601
HSR Project Number: **18047**
Project Date: **FEBRUARY 2019**
Drawn By: **kkl**
Key Plan:

No.	Description	Date
A3	ADDENDUM #3	3/5/2019

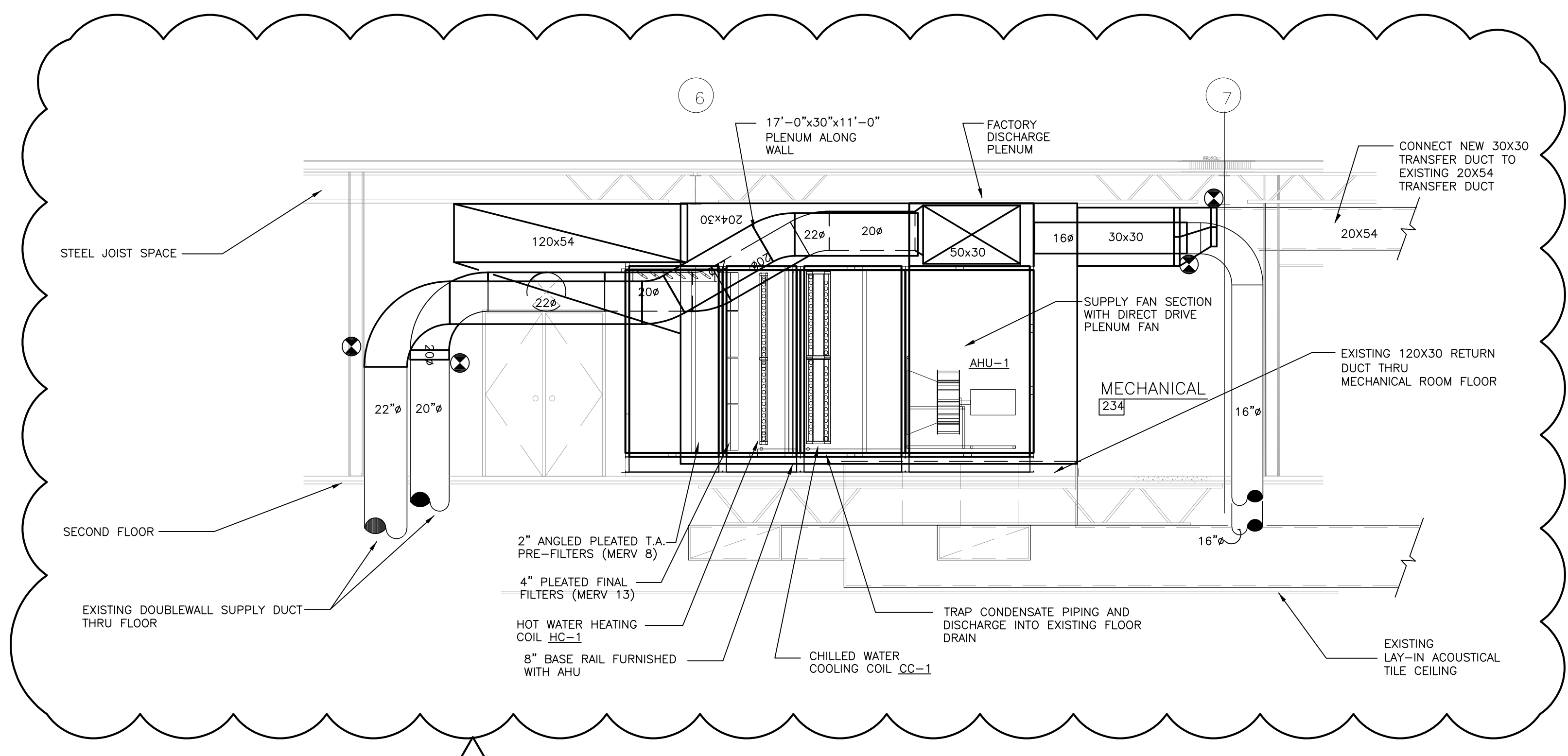
Graphic Scale: **VARIES**
Last Update: **3/1/2019**

1 FIRST FLOOR HVAC PIPING REMODEL PLAN
1/8" = 1'-0"

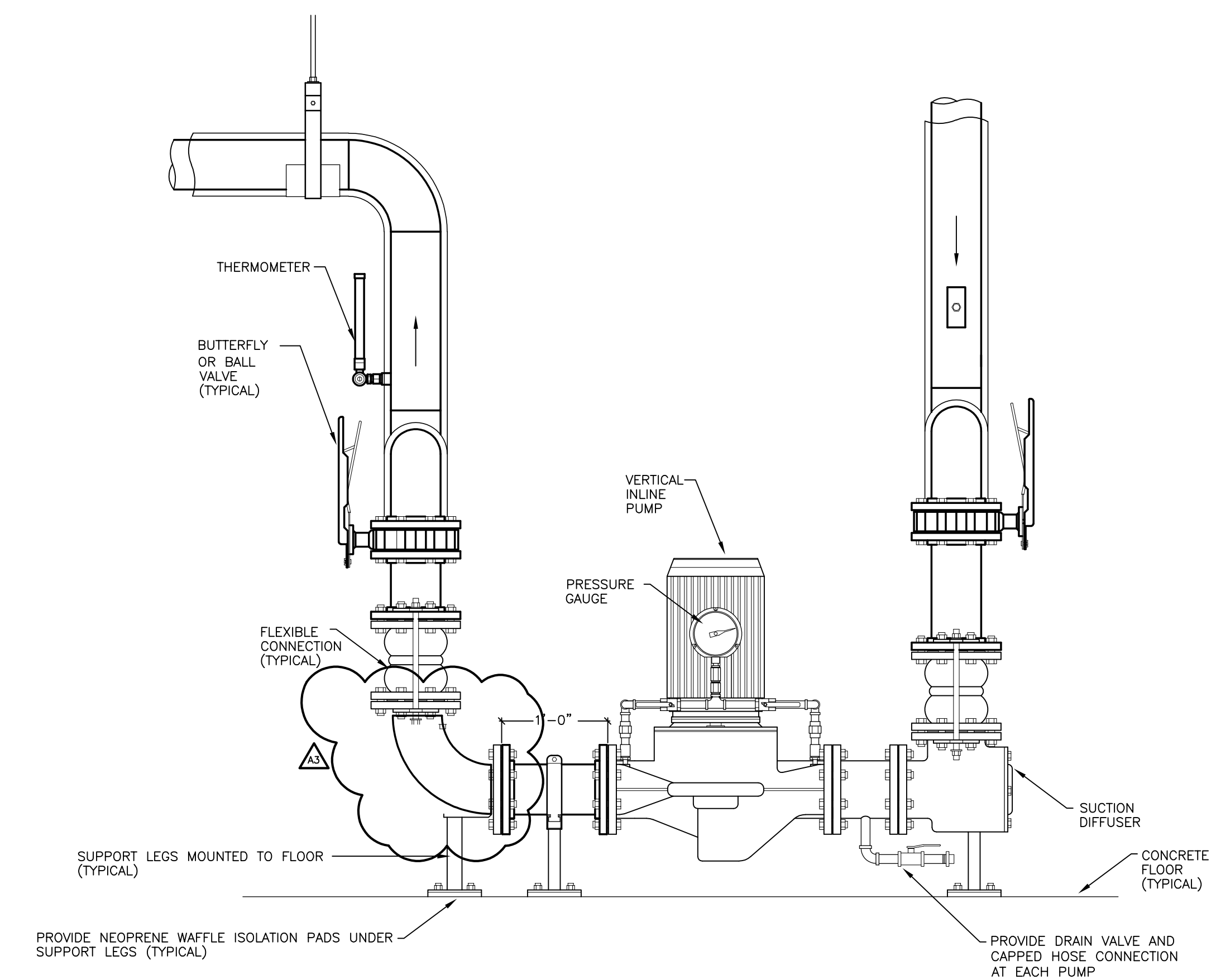
M101



1 LARGE SCALE DUCTWORK MECHANICAL ROOM PLAN
1/4" = 1'-0"



2 SECTION AT AIR HANDLING UNIT AHU-1
1/4" = 1'-0"



3 INLINE PUMP DETAIL
N.T.S.

WESTERN TECHNICAL COLLEGE
ARC PHASE 2 REMODEL

Project Location: 400 N. 7TH STREET
LA CROSSE, WI 54601
Sheet Title: LARGE SCALE MECHANICAL ROOM PLAN

Project Title:
HSR Project Number: 18047

Project Date: FEBRUARY 2019

Drawn By: kkl

Key Plan:

No.	Description	Date
A3	ADDENDUM #3	3/5/2019

Graphic Scale: VARIES
Last Update: 3/5/2019

M400R

AIR HANDLING UNIT (OWNER PRE-PURCHASED)

UNIT NO.	AREA SERVED	UNIT MODEL	CASING CONST.		COMBINATION FILTER				SUPPLY FAN				COL. REF. NO.		REMARKS			
			SINGLE WALL	DOUBLE WALL	PERCENT EFFICIENCY PRE FILTERS	MAX PRE FILTER APD	PERCENT EFFICIENCY FILTER	MAX FILTER APD	FAN TYPE	FAN SIZE (CLASS)	VFD	C F M	MN. O.A. CM	TOTAL STATIC PRESS.		BLOWER MOTOR HP. EACH	HEATING	COOLING
AH-1	1ST AND 2ND FLOOR	CAH080GDC	-	YES	MERV 8	0.61	MERV 13	0.61	PLENUM	33(2)	YES	38000	5618	6.04	60 (460/3)	HC-1	CC-1	1,2,3

REMARKS:
 1. BASED ON PRODUCT BY DAIKIN VISION.
 2. FILTER APD IS MID-LIFE.
 3. FANS SHALL BE DIRECT-DRIVE PLENUM TYPE WITH FAN MOTORS HAVING SEPARATE VFDs INSTALLED ON WALL. VFD MFR SHALL PROVIDE FUSES AND SGR WITH VFDs.

HOT WATER COILS (OWNER PRE-PURCHASED)

COL. REF. NO.	COL. SIZE	TYPE	NO. OF ROWS	MAX. COL. WPD	G. P. M.	ENT. TEMP.	HW. TEMP. DROP	ENT. TEMP.	MAX. AIR TEMP.	TOTAL MBH	FACE VEL. (FPM)	AR. PRESS. DROP	REMARKS REF. NO.
HC-1	2-42X20	5WH0602B	2-ROW	15.6	1001	140	20	34	75.4	949.3	300	0.15	12.3

REMARKS:
 1. SELECTION BASED ON PRODUCT BY DAIKIN
 2. FLUID CONTAINS 35% PROPYLENE GLYCOL
 3. HEATING CFM 21,000

EQUIPMENT WITH IN DASHED LINES HAS BEEN PRE-PURCHASED BY OWNER SITE UNLOADING. COMPLETE INSTALLATION AND START-UP WILL BE THE RESPONSIBILITY OF THE CONTRACTOR BIDDING THESE CONSTRUCTION DOCUMENTS.

CHILLED WATER COILS (OWNER PRE PURCHASED)

COL. REF. NO.	COL. SIZE	TYPE	NO. OF ROWS	C.W. TEMP. RISE	ENT. WTR. TEMP.	ENT. AIR TEMP. (DB)	ENT. AIR TEMP. (WB)	LVG. AR. TEMP. (DB)	LVG. AR. TEMP. (WB)	SENS. MBH	TOTAL MBH	FACE VEL. (FPM)	AR. PRESS. DROP	REMARKS REF. NO.	
CC-1	2-42 X 23	5WM1206B	8	10.2	45.0	77.7	64.9	54.5	54.1	961.9	1235.4	530	257.4	0.97	12.3

REMARKS:
 1. SELECTION BASED ON PRODUCT BY DAIKIN
 2. FLUID CONTAINS 35% PROPYLENE GLYCOL
 3. MAX. COIL WPD 19.6 FT HD

PUMPS (OWNER PRE-PURCHASED)

PUMP NO.	ROOM LOCATION	SERVES	TYPE		MODEL NO.	GPM	TOTAL HEAD (FEET)	SIZE IMPELLER (INCHES)	MOTOR HP	REMARKS REF. NO.
			IN-LINE	FLOOR MOUNTED						
CWP-1	MECHANICAL 2M2	CW SYSTEM	YES	YES	KV4007	333.0	45.0	STD	7.5 (460/3)	1,2,3,6,7
CWP-2	MECHANICAL 2M2	CW SYSTEM	YES	YES	KV4007	333.0	45.0	STD	7.5 (460/3)	1,2,3,6,7
HWP-1	MECHANICAL 2M1	HW SYSTEM	YES	YES	KV4009	265.0	65.0	STD	7.5 (460/3)	1,2,3,6
HWP-2	MECHANICAL 2M1	HW SYSTEM	YES	YES	KV4009	265.0	65.0	STD	7.5 (460/3)	1,2,3,6
P-1	MECHANICAL 2M2	HS-1	YES	-	MAGNA3 40-80F	45.9	15.0	STD	262W (208/1)	1,3
P-2	MECHANICAL 2M2	HS-1	YES	-	MAGNA3 40-80F	42.3	12.0	STD	262W (208/1)	1,3
GF-1	MECHANICAL 2M2	CW SYSTEM	-	YES	AXIOM SF100	5.0	11.5	STD	0.7A (115/1)	3,4,5
GF-2	MECHANICAL 2M2	HW SYSTEM	-	YES	AXIOM SF100	5.0	11.5	STD	0.7A (115/1)	3,4,5
BCP-1	MECHANICAL 2M1	BOILER	YES	-	UPS 80-160/2	113.6	48.3	STD	3 (460/3)	1,3

REMARKS:
 1. BASED ON PRODUCT BY GRUNDFOS
 2. PUMPS ARE 100% STANDBY OPERATION
 3. FLUID CONTAINS 30% PROPYLENE GLYCOL
 4. BASED ON PRODUCT BY AXIOM INDUSTRIES
 5. PROVIDE PLUG AND CORD FOR POWER AND DISCONNECT
 6. PROVIDE TOSHIBA VFD.
 7. SIZED FOR FUTURE CHILLED WATER COIL IN EXISTING ROOFTOP.

BOILERS (OWNER PRE-PURCHASED)

UNIT NUMBER	SERVES	SERIES	MODEL NO.	BOILER TYPE		FUEL SOURCE	INPUT MBH	OUTPUT MBH	BLOWER HP	INTERNAL PUMP HP	TOTAL AMPS (VOLTAGE)	THERMAL EFF. 100% FFE	PRESS. RELIEF VALVE	REMARKS REF. NO.
				COND.	NON-COND.									
B-2	H.W. HEATING	EVOLUTION	EVCA-1500	YES	-	NAT. GAS	1,500	1,300	1 1/2	3/4	19.3 (120/1)	86.5%	50 #	1,2,3
B-1	H.W. HEATING	EVOLUTION	EVA-1500	YES	-	NAT. GAS	1,500	1,300	1 1/2	3/4	19.3 (120/1)	86.5%	50 #	4

REMARKS:
 1. BASED ON PRODUCT BY THERMAL SOLUTIONS. BOILERS SHALL BE APPROVED BY STATE OF WISCONSIN FOR SEALED COMBUSTION AND BE ASME STAMPED.
 2. PROVIDE IN-LINE SECONDARY CIRCULATING PUMP BASED ON 20°F TEMPERATURE RISE. SEE PUMP SCHEDULE.
 3. PROVIDE CONDENSATE NEUTRALIZER.
 4. EXISTING BOILER.

WATER CHILLER (OWNER PRE-PURCHASED)

UNIT NO.	NO. OF MODULES & MODEL NO.	MODEL & NO. OF COMPRESSOR / MODULE	COMPRESSOR MOTOR PER COMPRESSOR		CHILLED WATER				CONDENSER DESIGN DATA				REMARKS REF. NO.			
			MCA/MOP	VOLTAGE	CHILLER MIN. GPM	EWT. °F	LWT. °F	P.D. (FEET)	CHILLER MIN. GPM	EWT. °F	LWT. °F	P.D. (FEET)				
WC-1	12	MS605VCHFAA	50T VARIABLE SPEED SCROLL (2)	98 / 125	460/3	2181	109	56.0	44.0	13.33	97.2	48.6	55	85	6.0	12,3,4,5,6

REMARKS:
 1. CHILLER IS PRE-PURCHASED BY OWNER
 2. PROVIDE TOP REFRIGERANT PIPING CONNECTIONS
 3. CHILLER SHALL HAVE VARIABLE SPEED SCROLL COMPRESSORS WITH 410A REFRIGERANT
 4. PROVIDE STAINLESS STEEL CONDENSER AND EVAPORATOR HEADERS
 5. TOTAL 100 TONS 50 TONS EACH COMPRESSOR
 6. EVAPORATOR CONTAINS 30% PROPYLENE GLYCOL. PROVIDE AND INSTALL DRAIN PAN UNDER CHILLER
 7. SEE 1M500 FOR INSTALLATION.

HEATSTACK - DHRC (OWNER PURCHASED)

TONS	NO. OF MODULES & MODEL NO.	MODEL & NO. OF COMPRESSORS	COMPRESSOR MOTOR		EVAPORATOR		CONDENSER		HEATING/COOLING COP	REMARKS REF. NO.					
			MCA/MOP	VOLTAGE	EWT. °F	LWT. °F	EWT. °F	LWT. °F							
24.5	11	HSS20X2AB0	SCROLL-2	68/100	460/3	45.9	56.0	42.0	5.5	42.3	100	120	95	6.5	12,3,4,5

REMARKS:
 1. HEAT RECOVERY UNIT IS PRE-PURCHASED BY OWNER
 2. PROVIDE AND INSTALL DRAIN PAN UNDER HEATSTACK
 3. SEE PUMP SCHEDULE FOR ASSOCIATED CIRCULATORS
 4. SEE 1M500 FOR INSTALLATION

AIR DISTRIBUTION DEVICES

UNIT REF.	FIXTURE TYPE	SIZE	LOCATION	DAMPER	NLET SIZE	MODEL NUMBER	MOUNTING	REMARKS REF. NO.
G-1	SUPPLY	24 X 24	CEILING	RADIAL	12"φ	SERIES PLQ 4-WAY	LAY-IN	1,2,3
G-2	SUPPLY	24 X 24	CEILING	RADIAL	10"φ	SERIES PLQ 4-WAY	LAY-IN	1,2,3
G-3	SUPPLY	24 X 24	CEILING	RADIAL	8"φ	SERIES PLQ 4-WAY	LAY-IN	1,2,3
G-4	SUPPLY	24 X 24	CEILING	RADIAL	6"φ	SERIES PLQ 4-WAY	LAY-IN	1,2,3
G-5	TRANSFER	24 X 24	CEILING	NO	N/A	EGG-5 1/2" EGG CRATE	LAY-IN	1,4
G-6	TRANSFER	24 X 12	CEILING	NO	N/A	EGG-5 1/2" EGG CRATE	LAY-IN	1,4
G-7	TRANSFER	24 X 6	CEILING	NO	N/A	EGG-5 1/2" EGG CRATE	LAY-IN	1,4
G-8	EXHAUST	8 X 8	CEILING	NO	N/A	EGG-5 1/2" EGG CRATE	LAY-IN	1,4
G-9	EXHAUST	UP X 10	CEILING	NO	N/A	EGG-5 1/2" EGG CRATE	LAY-IN	1,4
G-10	SUPPLY	4' X 2-1/2'	CEILING	NO	N/A	EGG-5 1/2" EGG CRATE	LAY-IN	1,4
D-1	DISPLACEMENT	24" RADIUS	WALL	NO	14"φ	TITUS DAVC - 14-24X36	WALL	5,6,7

REMARKS:
 1. BASED ON PRODUCT BY KRUEGER
 2. DIFFUSERS SHALL BE STEEL CONSTRUCTION
 3. INCLUDE DIRECTIONAL BLOW PATTERN CONTROL TABS FOR DIFFUSERS SHOWN OTHER THAN 4-WAY THROW
 4. GRILLES SHALL BE ALUMINUM CONSTRUCTION
 5. BASED ON PRODUCT BY TITUS
 6. PROVIDE CUSTOM PRE-PURCHASED COVER THAT MATCHES THE DIFFUSER PATTERN
 7. SEE 1110 AND ALL RCP PLANS FOR CEILING HEIGHTS

DATA COOLING UNIT

UNIT NO.	MODEL NO.	TOTAL COOLING BTUH	VOLTAGE	INDOOR UNIT				OUTDOOR UNIT (CU-9)				ELECTRICAL		RFRIG. PIPE SIZE	REMARKS REF. NO.						
				CFM	ECM FAN MOTOR	QUANTITY FANS	MCA	MAX. SOUND	AR. VOLUME	QUANTITY FANS	FAN MOTOR COMP. TYPE	QUANTITY COMP.	REFRIG. TYPE			TOTAL INPUT	MCA	FUSE SIZE			
SC-1	PKRATB34A/EVA1818M4	18,000	208/60/1	370	0.33FLA	1	1.0 A	43	dBA	1200	1	0.35	FLA	ROTARY	2	R-410A	1190 W	13A	20A	1/4" 1/2"	1,2,3,4,5,6

REMARKS:
 1. BASED ON PRODUCT BY MITSUBISHI (15.3 SEER)
 2. DISCONNECT SWITCH AT OUTDOOR UNIT BY ELECTRICAL TRADE
 3. PROVIDE LOW AMBIENT WIND BAFFLE (WB-PA1)
 4. INCLUDE REMOTE THERMOSTAT
 5. INCLUDE FACTORY PRE-CHARGED REFRIGERANT LINE SET
 6. SEE DETAIL 6M501 FOR INSTALLATION

CABINET UNIT HEATERS

UNIT TAG	ROOM NO.	INSTALLED MBH	MODEL	FULL DEPTH	RECESS DEPTH	CABINET			REMARKS REF. NO.
						WIDTH	HEIGHT	LENGTH	
CUH-1	VESTIBULE 212	1804	FFN802	10	10	33	29	-	12,3,4,5,6

REMARKS:
 1. BASED ON PRODUCT BY DAIKIN.
 2. PROVIDE 3/4" HWS/HWR CONNECTIONS.
 3. SEE DETAIL 11501 FOR CONTROL VALVE PIPING.
 4. PROVIDE 2-WAY HOT WATER CONTROL VALVE.
 5. MBH BASED ON 180°F EWT AND 20°F TEMPERATURE DROP.
 6. INVERTED FLOW

FANS

UNIT NUMBER	SERVES	FAN TYPE	LOCATION	MODEL NO.	DISCHARGE ARRANG.	CFM	MN. CFM	EXT. STATIC PRESS.	HP (VOLTAGE)	SONE LEVEL	REMARKS REF. NO.
CX-1	CUSTODIAL	EXHAUST	1C1	RB110	-	110	-	-	2.0 AMPS (120/1)	0.6	1,2
CX-2	TOILET	EXHAUST	1R6	RB80	-	80	-	-	6.3 AMPS (120/1)	<0.3	1

REMARKS:
 1. BASED ON PRODUCT BY BROWN OR EQUAL.
 2. INCLUDE ROOF CAP MODEL 611CM WITH BACKDRAFT DAMPER, BIRD SCREEN, & ROOF CURB WITH FAN.

WALL PANEL RADIATION

UNIT NO.	TOTAL MBH	TYPE	PANEL RADIATOR				PPNG CONNECTIONS	TEMP. CONTR.	REMARKS REF. NO.
			LENGTH	ACTIVE LENGTH	DEPTH	HEIGHT			
RP-1	13.8	R3F-2	30'-0"	24'-0"	4.8"	8.62"	SAME RIGHT	2-WAY	1,2,3,4,5
RP-2	13.6	R3F-2	26'-0"	20'-0"	4.8"	8.62"	SAME RIGHT	2-WAY	1,2,3,4,5
RP-3	23.1	R3F-2	40'-0"	34'-0"	4.8"	8.62"	SAME RIGHT	2-WAY	1,2,3,4,5
RP-4	13.6	R3F-2	20'-0"	16'-0"	4.8"	8.62"	SAME RIGHT	2-WAY	1,2,3,4,5
RP-5	4.5	R3F-3	8'-6"	5'-0"	4.8"	11.5"	SAME RIGHT	2-WAY	1,2,3,4,5
RP-6	5.4	R3F-3	9'-6"	6'-0"	4.8"	11.5"	SAME RIGHT	2-WAY	1,2,3,4,5
RP-7	4.5	R3F-3	8'-0"	5'-0"	4.8"	11.5"	SAME RIGHT	2-WAY	1,2,3,4,5,6
RP-8	4.5	R3F-3	8'-10"	5'-0"	4.8"	11.5"	SAME RIGHT	2-WAY	1,2,3,4,5,6

REMARKS:
 1. BASED ON PRODUCT BY RUNTAL RADIATORS
 2. UNIT SHALL BE WALL MOUNTED PANEL TYPE
 3. UNIT SIZE WITH AVERAGE WATER TEMPERATURE 130°F 30% PROPYLENE GLYCOL
 4. SEE DETAIL 4M501
 5. FIELD VERIFY EXACT LENGTHS.
 6. PROVIDE CUSTOM CURVED PANEL.

EXISTING ROOFTOP UNIT

UNIT NO.	UNIT TYPE	CASING CONST.	FILTER	AR. BLENDER SP.	SUPPLY FAN		TOTAL STATIC PRESS.		BLOWER MOTOR HP.		COL. REF. NO.		REMARKS				
NO.	TYPE	SIZE	SINGLE WALL	DOUBLE WALL	FAN TYPE	FAN SIZE	VFD	C F M	20S AR (MN)	HEATING	COOLING	REF. NO.					
RTU-1	T-SERIES	21	-	YES	YES	0.55	0.35	29,125"-AF	21P	YES	9420	0.9%	2.50	15 (480/3)	HC-1A	CC-1A	1

REMARKS:
 1. BASED ON PRODUCT BY TRANE CO.



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A3	ADDENDUM #3	3/5/2019

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