

STATE OF WISCONSIN  
 DEPARTMENT OF ADMINISTRATION  
 DIVISION OF FACILITIES DEVELOPMENT

REBID  
 HVAC IMPROVEMENTS PHASE III  
 ONE WEST WILSON STREET  
 HEALTH AND HUMAN SERVICES BUILDING

MADISON, WISCONSIN  
 DIVISION PROJECT NO 93511



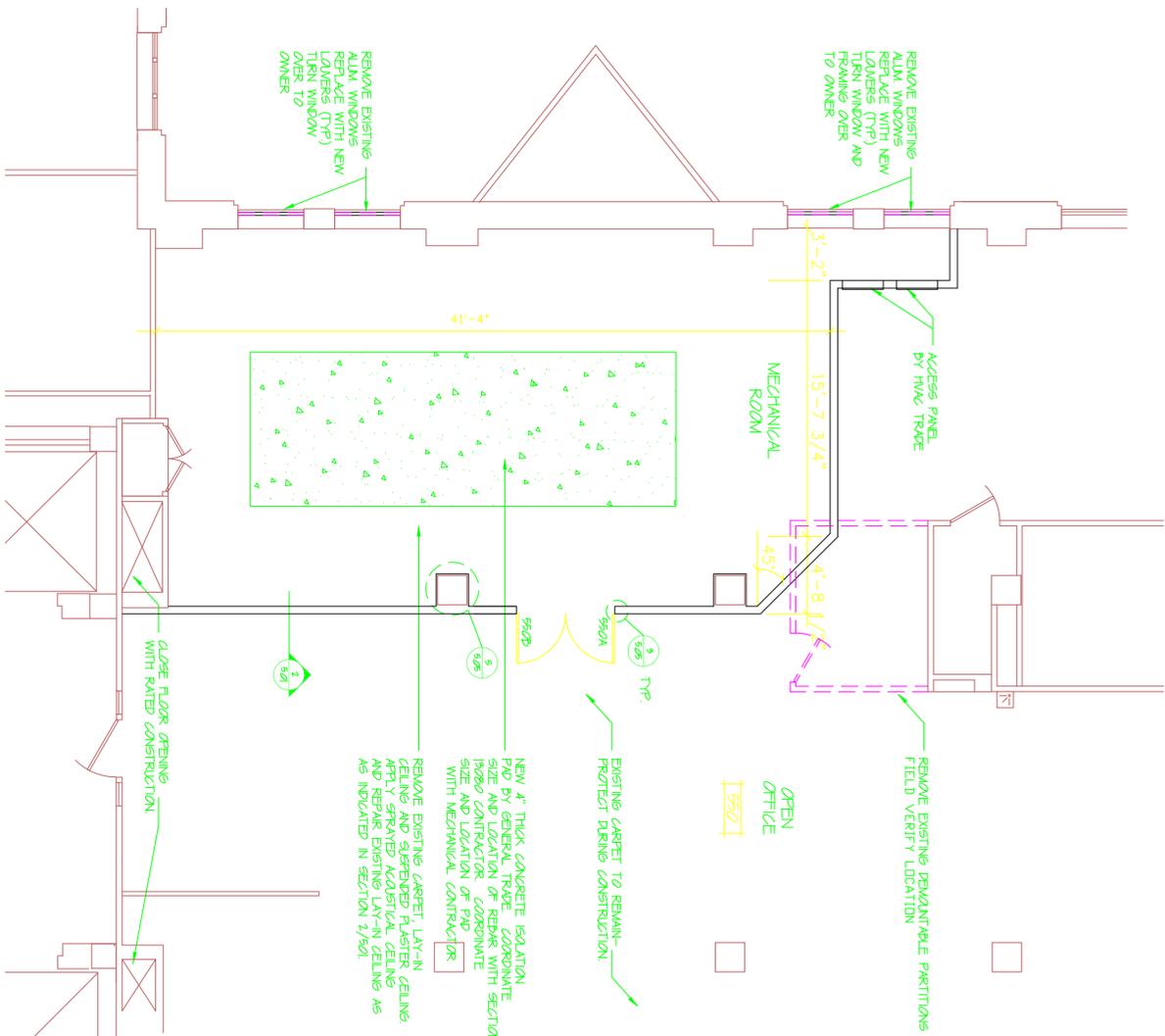
Architecture  
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<b>Potter Lawson</b> <b>ENGINEERS</b> Architecture Engineering Interior Design Planning Design Build 15 Ellis Potter Court Madison, Wisconsin (608) 274-2741 fax: 274-3674	<b>HVAC Improvements, Phase III</b> <b>One West Wilson Street</b> <b>Health and Human Services Building</b> <b>Madison, Wisconsin</b> DIVISION PROJECT NO. 93511																																																																								
<table border="1"> <thead> <tr> <th>Date</th> <th>Issuance/Revisions</th> <th>Symbols</th> <th>Drawn by</th> <th>Checked by</th> <th>Date</th> <th>Scale</th> <th>Job No.</th> </tr> </thead> <tbody> <tr> <td>9/14/95</td> <td>REBID REVISIONS</td> <td></td> <td>WJA/B</td> <td></td> <td>9/14/95</td> <td>NO SCALE</td> <td>93024.00</td> </tr> <tr> <td>2/28/97</td> <td>RECORD DRAWINGS</td> <td></td> <td></td> <td>G.J.</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Issuance/Revisions	Symbols	Drawn by	Checked by	Date	Scale	Job No.	9/14/95	REBID REVISIONS		WJA/B		9/14/95	NO SCALE	93024.00	2/28/97	RECORD DRAWINGS			G.J.																																																				Drawing Title <b>Title Sheet</b>
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	Rebid Sheet No. <b>101</b>																																																																								



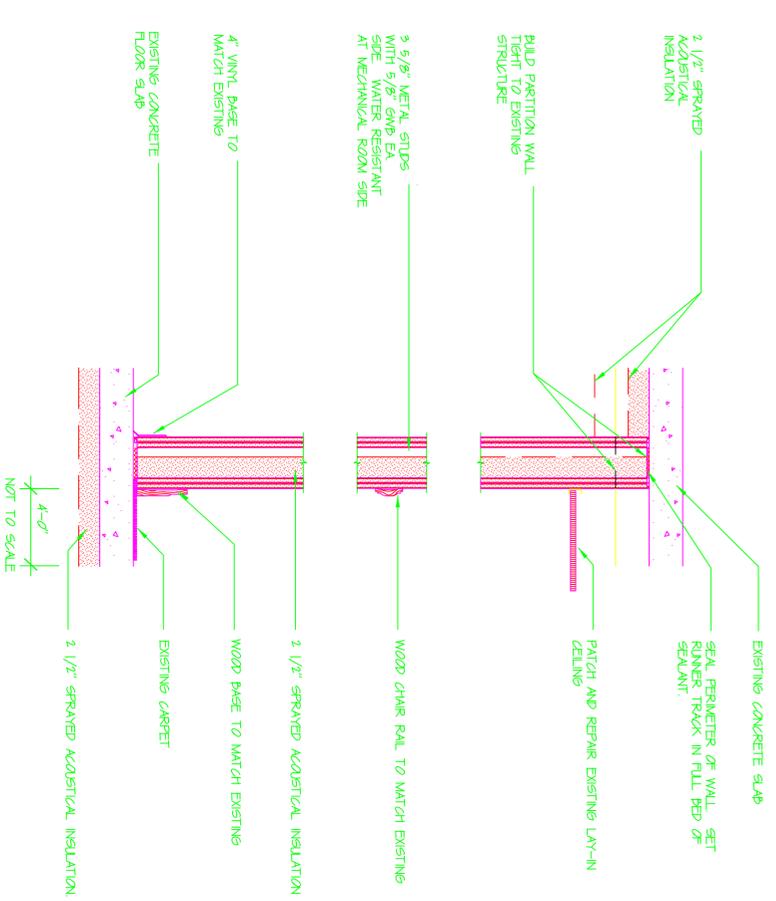
**1 FIFTH FLOOR PLAN - CENTER TOWER**  
 5.01 1/4" = 1'-0"



**GENERAL NOTES:**

1. REMOVE EXISTING LAY-IN CEILING AND SPANDREL PLASTER CEILING OF 4TH FLOOR SPACE BELOW NEW MECHANICAL ROOM. INSTALL SPRAYED ACOUSTICAL CEILING WITH NEW MECHANICAL ROOM. INSTALL SPRAYED ACOUSTICAL CEILING AND GYP BOARD SYSTEM PROTECT/PAINT EXISTING FINISHES, ELECTRICAL AND COMMUNICATIONS DISTRIBUTION AND LIGHTING.
2. ALL NEW LAY-IN CEILING WORK IS BY HVAC TRADE
3. EXISTING ASBESTOS CONTAINING FLOOR TILE AT NEW MECHANICAL ROOMS TO BE ABANDONED BY OWNER.
4. WORK IN THIS AREA SHALL BE PART OF PHASE 1 B. WEEKS 3 - 6 AS IDENTIFIED IN CONSTRUCTION SCHEDULE. DRAWING ON DRAWING 901. GENERAL CONSTRUCTION WORK SHALL BE COORDINATED TO ALLOW COMPLETION OF HVAC WORK IN THIS PHASE.

**2 TYPICAL WALL SECTION**  
 5.01 3/4" = 1'-0"



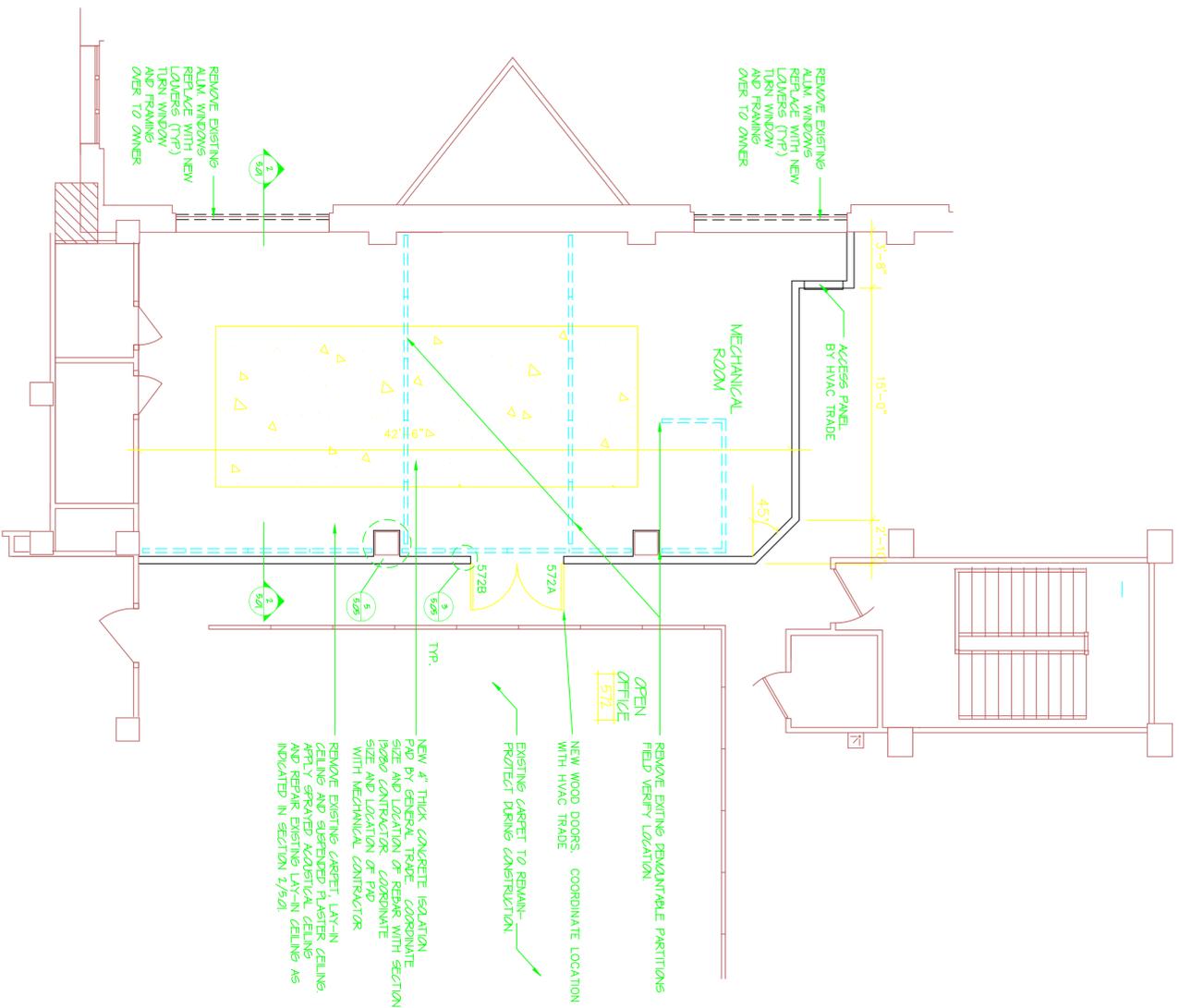
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 Build

**HVAC Improvements, Phase III**  
 One West Wilson Street  
 Health and Human Services Building  
 Madison, Wisconsin

Date	Issuance/Revisions	Symbol	Drawn by
9/14/95	REBID REVISIONS		M.C.
7/28/97	RECORD DRAWINGS		M.C.

Drawing Title: **Mechanical Room 5 TH Floor Plan Center Tower**  
 Rebid Sheet No.: **5.01**

Date	Created by	Scale	Job No.
9/14/95	M.C.	AS NOTED	93024.00



**MECHANICAL FLOOR PLAN-WEST**

1/4" = 1'-0"



**GENERAL NOTES:**

1. REMOVE EXISTING LAY-IN CEILING AND SUSPENDED PLASTER CEILING OF 4TH FLOOR SPACE BELOW NEW MECHANICAL ROOM. INSTALL SPRAYED ACOUSTICAL CEILING MATERIAL AS INDICATED IN WALL SECTION 2/501. INSTALL NEW LAY-IN CEILING AND GRID SYSTEM. PROTECT EXISTING FINISHES, ELECTRICAL AND COMMUNICATIONS DISTRIBUTION AND LIGHTING.
2. ALL NEW LAY-IN CEILING WORK IS BY HVAC TRADE.
3. EXISTING ASBESTOS CONTAINING FLOOR TILE AT NEW MECHANICAL ROOMS TO BE ABATED BY OWNER.
4. WORK IN THIS AREA SHALL BE PART OF PHASE 1 A, WEEKS 2-5 AS IDENTIFIED IN CONSTRUCTION SCHEDULE DRAWING ON DRAWING 8.01. GENERAL CONSTRUCTION WORK SHALL BE COORDINATED TO ALLOW COMPLETION OF HVAC WORK IN THIS PHASE.

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DIVISION PROJECT NO. 935111

Date	Issuance/Revisions	Symbols	Drawn by
9/14/95	REBD REVISIONS		M.C.
2/28/97	RECORD DRAWINGS		

MECHANICAL ROOM 5 TH FLOOR WEST TOWER

Rebid Sheet No. 5.02



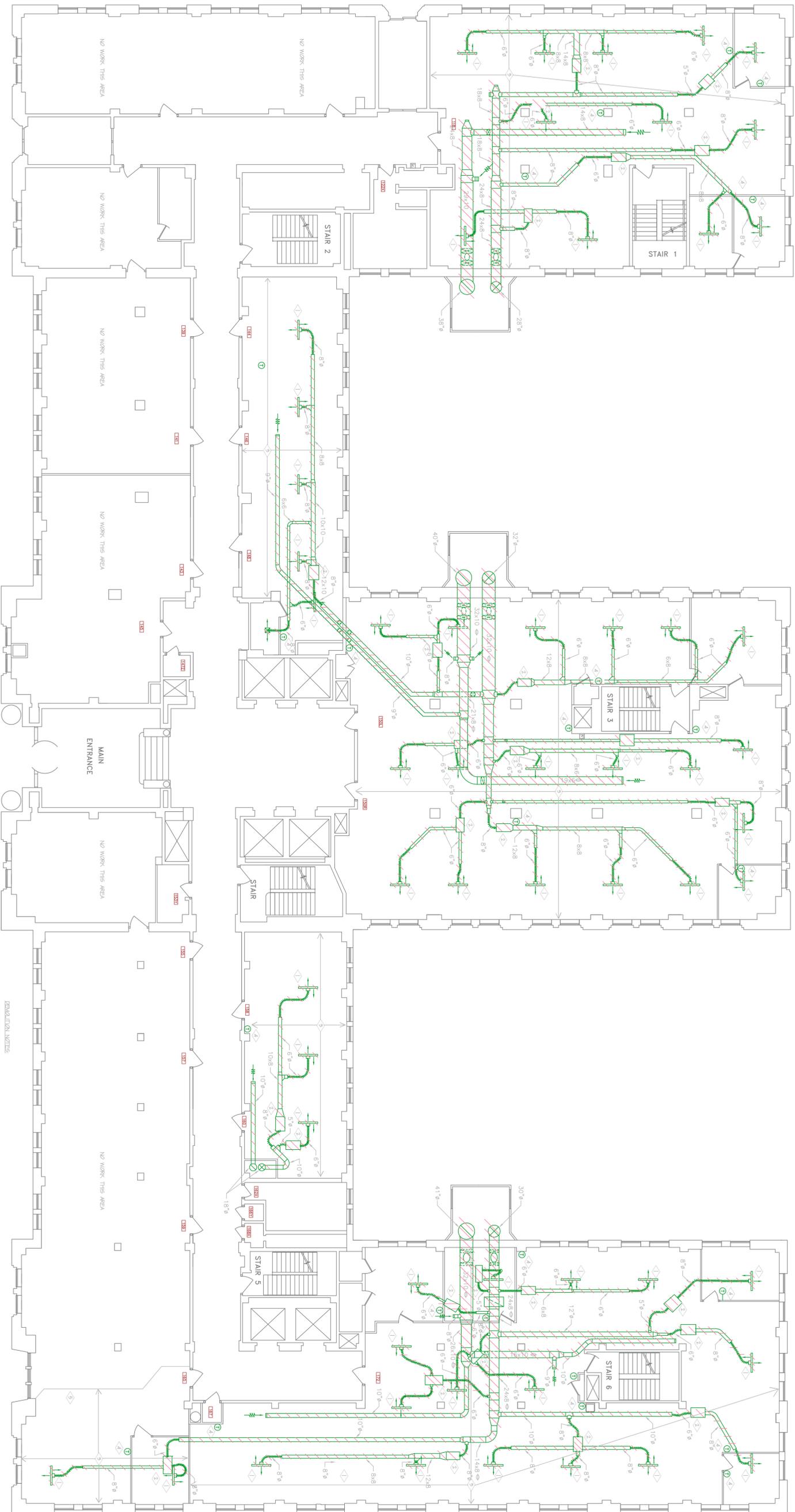












1 FIRST FLOOR PLAN  
 804/ 1/8" = 1'-0"

- ◇ REMOVE LINEAR/ 60T PRIMER AND RETAIN FOR REINSTALLATION. AT CONTRACTORS OPTION BE TURNED OVER TO OWNER.
- ◇ REMOVE WALL FOR
- ◇ REMOVE ALL DUCTWORK IN THIS AREA. CONTRACTOR TO BE RESPONSIBLE FOR REINSTALLATION AT CONTRACTORS OPTION. TURNED OVER TO THE OWNER UNLESS OTHERWISE NOTED TO BE REMOVED. CONTRACTOR TO BE RESPONSIBLE FOR REINSTALLATION & NEW WORK. DUCT SHALL ALSO BE REMOVED.
- ◇ REMOVE THERMOSTAT. VERIFY LOCATION OF NEW THERMOSTATS. IF NEW THERMOSTAT IS NOT IDENTIFIED, REMOVE PATCH WALL. OPEN THERMOSTATS TO OWNER.
- ◇ OVER PARKER SEE DETAIL B-824



PROJECT NORTH

**NOTE:**  
 THIS DRAWING IS A PART OF A SET OF DRAWINGS FOR THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN.

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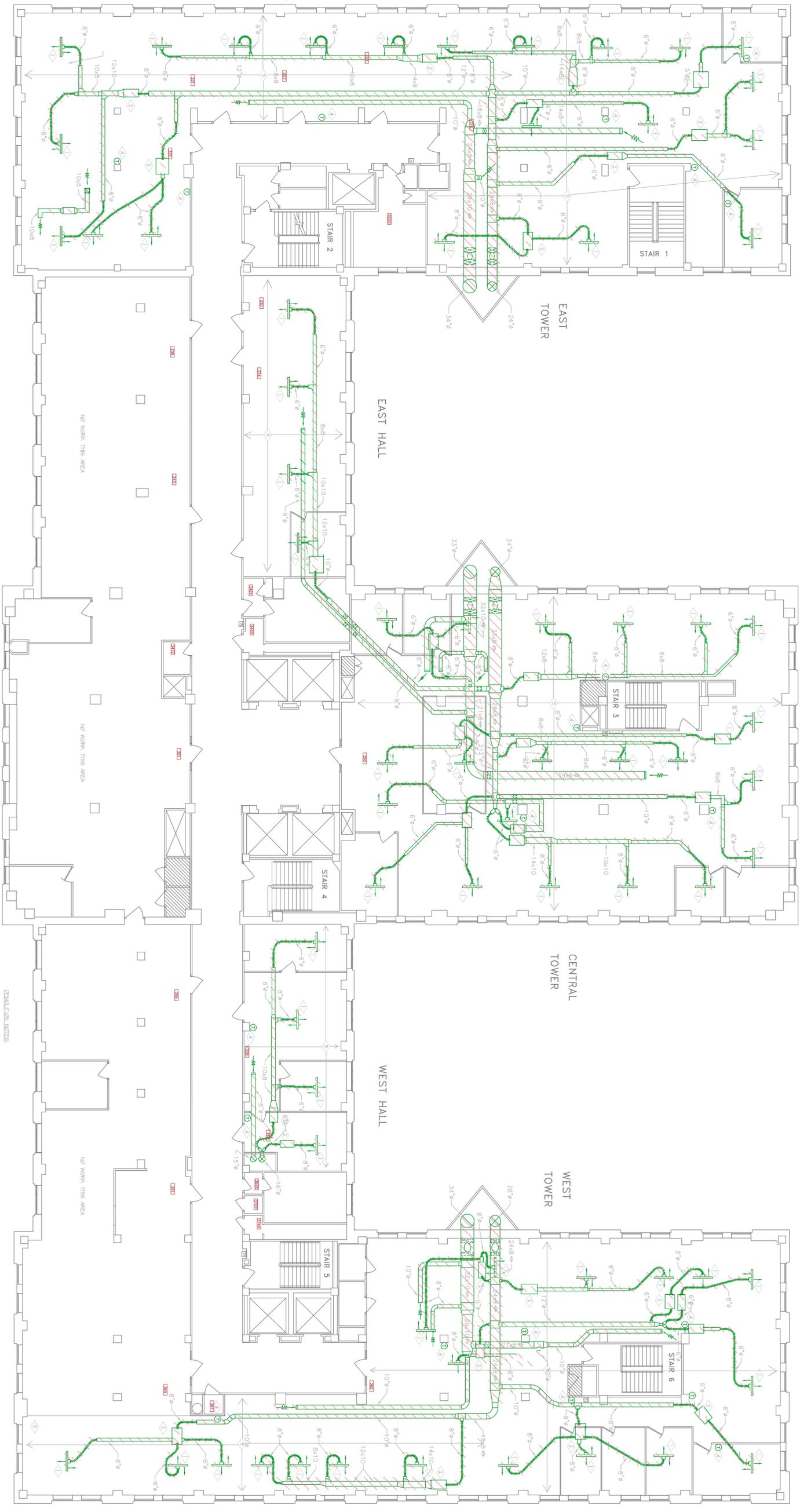
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 One West Wilson Street  
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 DIVISION PROJECT NO. 93511

Date	Issuance/Revisions	Symbols	Drawn By
9/14/95	REVISIONS		W.H.B.

Drawing Title  
 First Floor  
 Mechanical  
 Demolition Plan

Rebid Sheet No.  
 8.04





1 THIRD FLOOR PLAN  
 806 1/8" = 1'-0"

- DEMOLITION NOTES:**
- ▷ REMOVE LINER/ S/LT PUTTER AND RETAIN FOR RENOVATION. AT CONTRACTORS OPTION BE TYPED OVER TO OWNER
  - ▷ REMOVE W/ IN BOX
  - ▷ REMOVE ALL DUCTWORK IN THIS AREA. CONTRACTOR TO REMOVE ALL DUCTWORK IN THIS AREA.
  - ▷ REMOVE THERMOSTAT. VERIFY LOCATION OF NEW THERMOSTAT. IF NEW THERMOSTAT IS NOT LOCATED AT RENOVATED PATCH WALL, THEN THERMOSTATS ARE TO BE REMOVED.
  - ▷ DUCT PARKER SEE DETAIL 9-924



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Date	Issuance/Revisions	Symbol	Drawn by
9/14/95	REBID REVISIONS		W.H.B.
2/24/97	RECORD DRAWINGS		G.J.

Drawing Title  
 Third Floor Mechanical Demolition Plan

Rebid Sheet No.  
 8.06





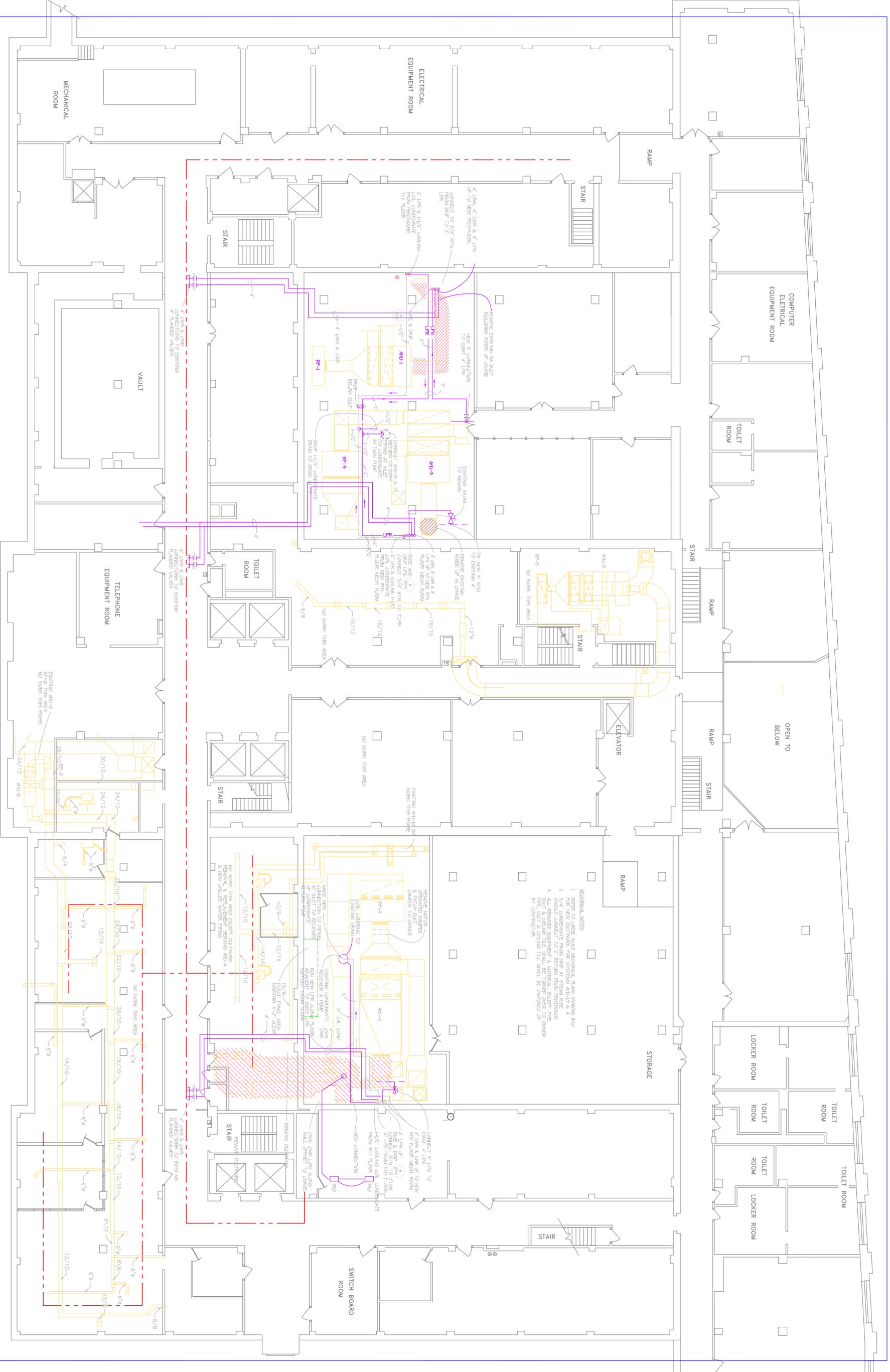






**1** THIRD BASEMENT FLOOR PLAN  
 811  
 1/8" = 1'-0"

**NOTE:**  
 THIS DRAWING IS A PRELIMINARY DESIGN. IT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND CONDITIONS OF WORK BEFORE BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.



**MECHANICAL NOTE:**  
 1. REFER TO LARGE SCALE MECHANICAL PLANS DRAWING 812.  
 2. NEW WORK SHALL BE IDENTIFIED BY A RED LINE.  
 3. REMOVE EXISTING EQUIPMENT & MATERIAL EXCEPT PIPE PERMITTED TO REMAIN.  
 4. ALL REMOVED EQUIPMENT & MATERIAL EXCEPT PIPE PERMITTED TO REMAIN SHALL BE DEPOSITED AT THE CONTRACTOR'S DISCRETION.

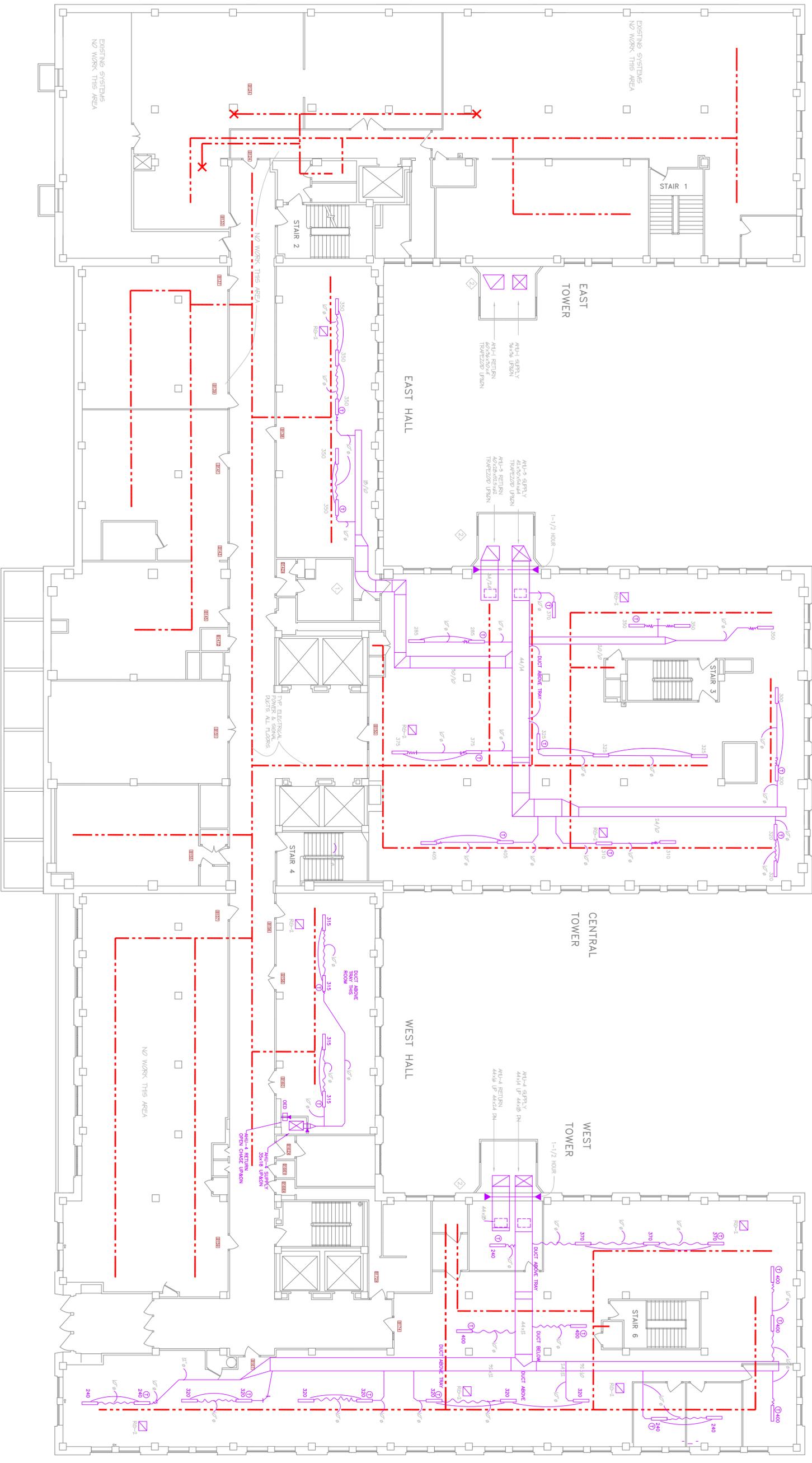
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 One West Wilson Street  
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Date	Issuance/Revisions	Symbol	Drawn by
9/14/95	REVISIONS		W.H.B.
5/13/95	REVISIONS		W.H.B.
2/29/97	RECORD DRAWINGS		G.L.

Working Title: Third Basement Mechanical Demolition and Remodeling Plan  
 Rbld Sheet No. 8.11





**NOTE:**  
 ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL MECHANICAL CODE (IMC) AND THE 2015 INTERNATIONAL ELECTRICAL CODE (IEC). THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT AND THE LOCAL ELECTRICAL INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT AND THE LOCAL ELECTRICAL INSPECTOR.

1 FIRST BASEMENT FLOOR PLAN  
 813 1/8" = 1'-0"

- ◊ REMOVAL AND REPAIR/REPLACE OF DRYWALL OR PLASTER CEILING FOR INSTALLATION OF NEW DUCT WORK IS TO BE BY HVAC CONTRACTOR.
- ◊ CUTTING AND PATCHING OF EXISTING CHASES FOR REMOVAL OF EXISTING AND INSTALLATION OF NEW DUCTWORK IS BY HVAC CONTRACTOR.



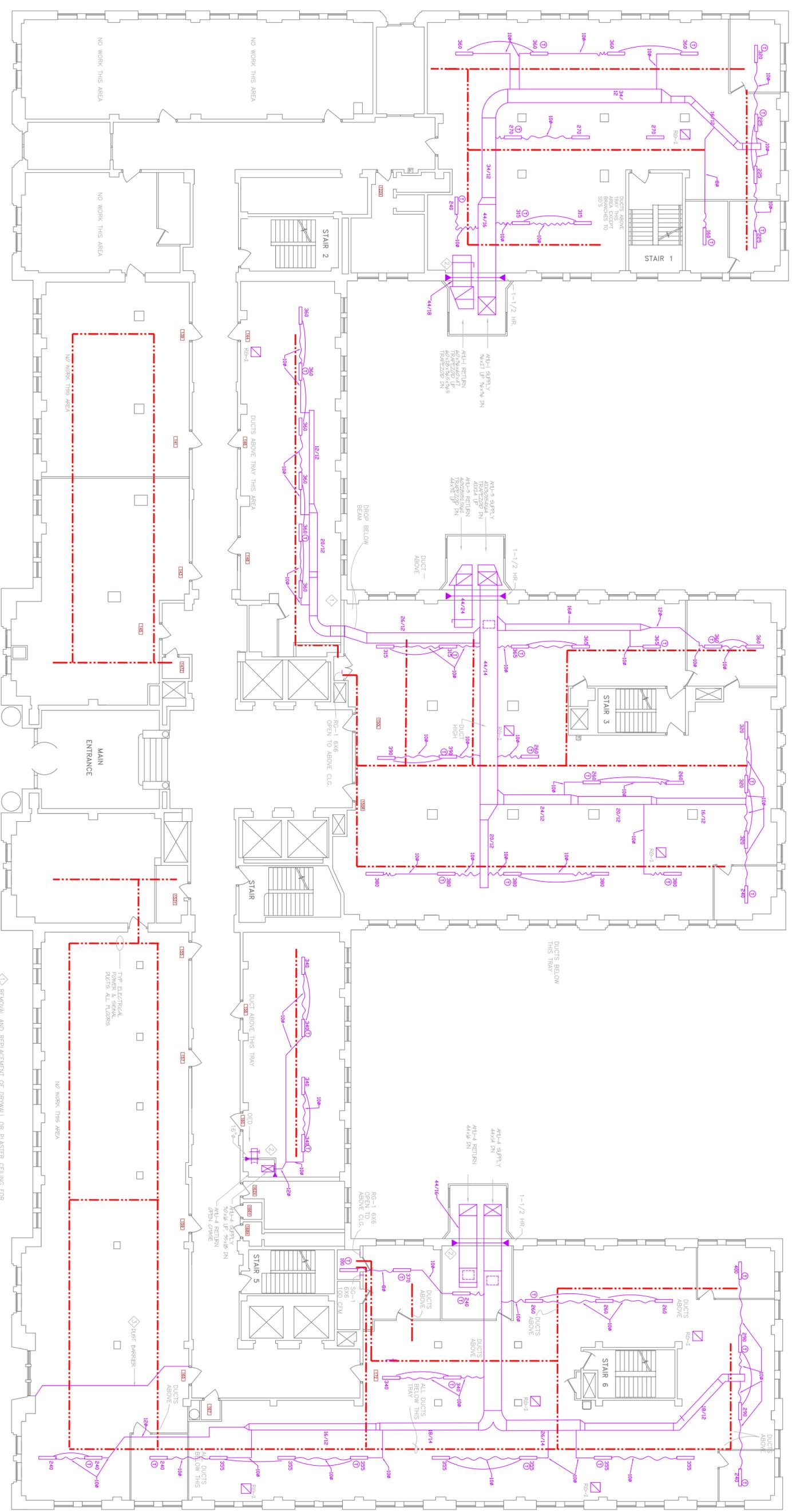
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9/14/95	REBID REVISIONS		W.H.B.	
3/13/96	REBID MODULAR LAYOUT			G.J.
7/24/97	RECORD DRAWINGS			

Drawing Title: First Basement Mechanical Remodeling Plan

Rebid Sheet No. 8.13



1 FIRST FLOOR PLAN  
 814 1/8" = 1'-0"

- 1. REMOVE AND REPLACE OF DRYWALL OR PLASTER CEILING FOR INSTALLATION OF NEW DUCT WORK IS TO BE BY HVAC CONTRACTOR.
- 2. CUTTING AND PATCHING OF EXISTING CHASES FOR REMOVAL OF EXISTING AND INSTALLATION OF NEW DUCTWORK IS BY HVAC CONTRACTOR.
- 3. DUST BARRIER. SEE DETAIL B-8.24.



PROJECT NORTH

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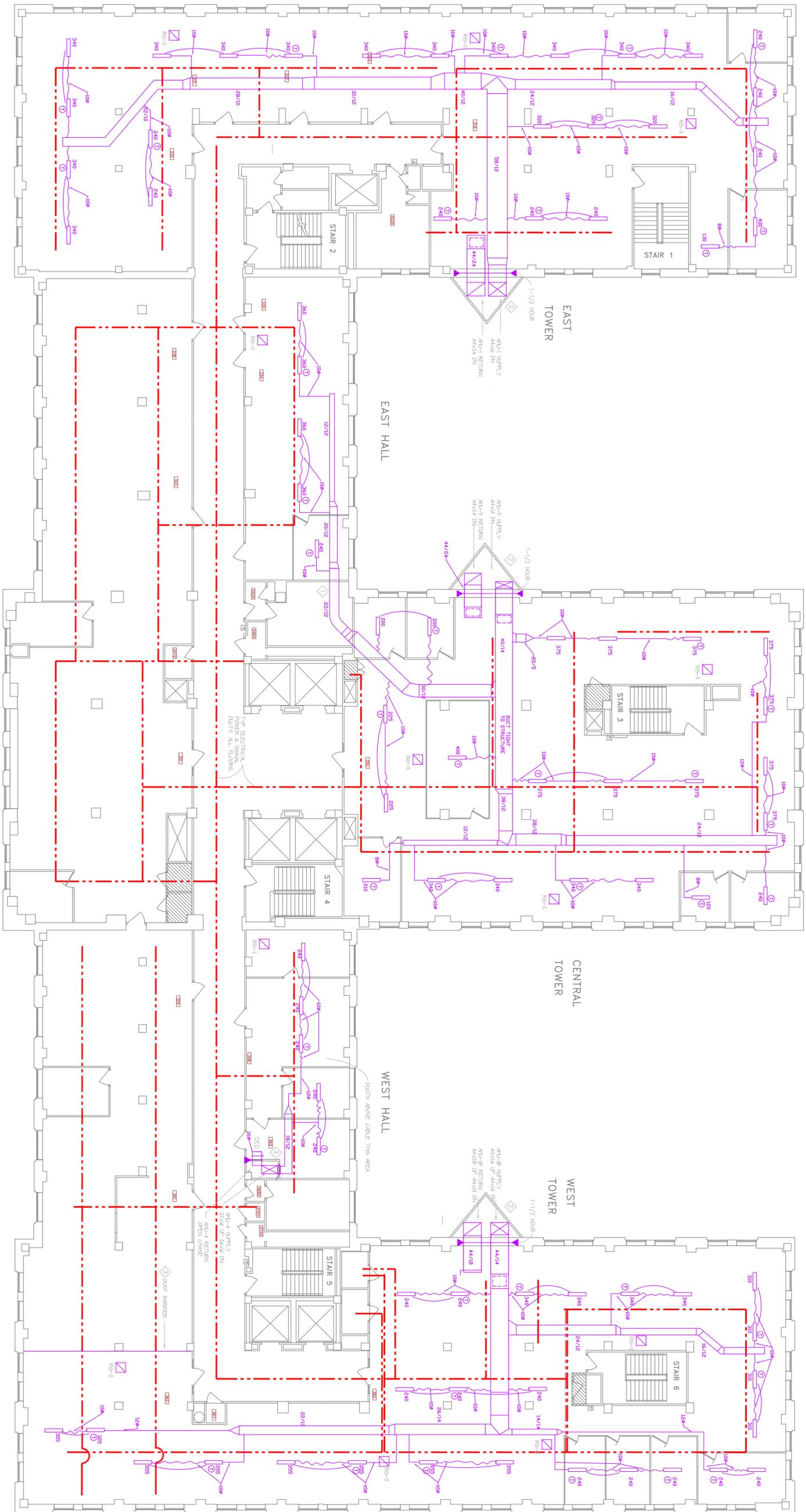
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9/14/95	REBD REVISIONS		WLAB
5/13/98	REVISD MODULINE LAYOUT		G.J.
2/24/97	RECORD DRAWINGS		

During Title  
 First Floor  
 Mechanical  
 Remodeling Plan

Rebid Sheet No.  
 8.14





1 THIRD FLOOR PLAN  
 8/16 1/8" = 1'-0"

- 1 REMOVE AND REPLACEMENT OF DRYWALL OR PLASTER CEILING FOR INSTALLATION OF NEW DUCT WORK IS TO BE BY HVAC CONTRACTOR.
- 2 CUTTING AND PATCHING OF EXISTING CHASES FOR REMOVAL OF EXISTING AND INSTALLATION OF NEW DUCTWORK IS BY HVAC CONTRACTOR.
- 3 DUST BARRIER SEE DETAIL 8-8.24.



PROJECT NORTH

**NOTE:**  
 THIS SHEET HAS BEEN REVISED 8/14/95 TO REFLECT THE REVISIONS TO THE CONTRACT DOCUMENTS AND TO CORRECT THE DUCTWORK LAYOUT. THE REVISIONS TO THE CONTRACT DOCUMENTS ARE LISTED IN THE REVISIONS TABLE. THE REVISIONS TO THE CONTRACT DOCUMENTS ARE LISTED IN THE REVISIONS TABLE. ALL OTHERS.

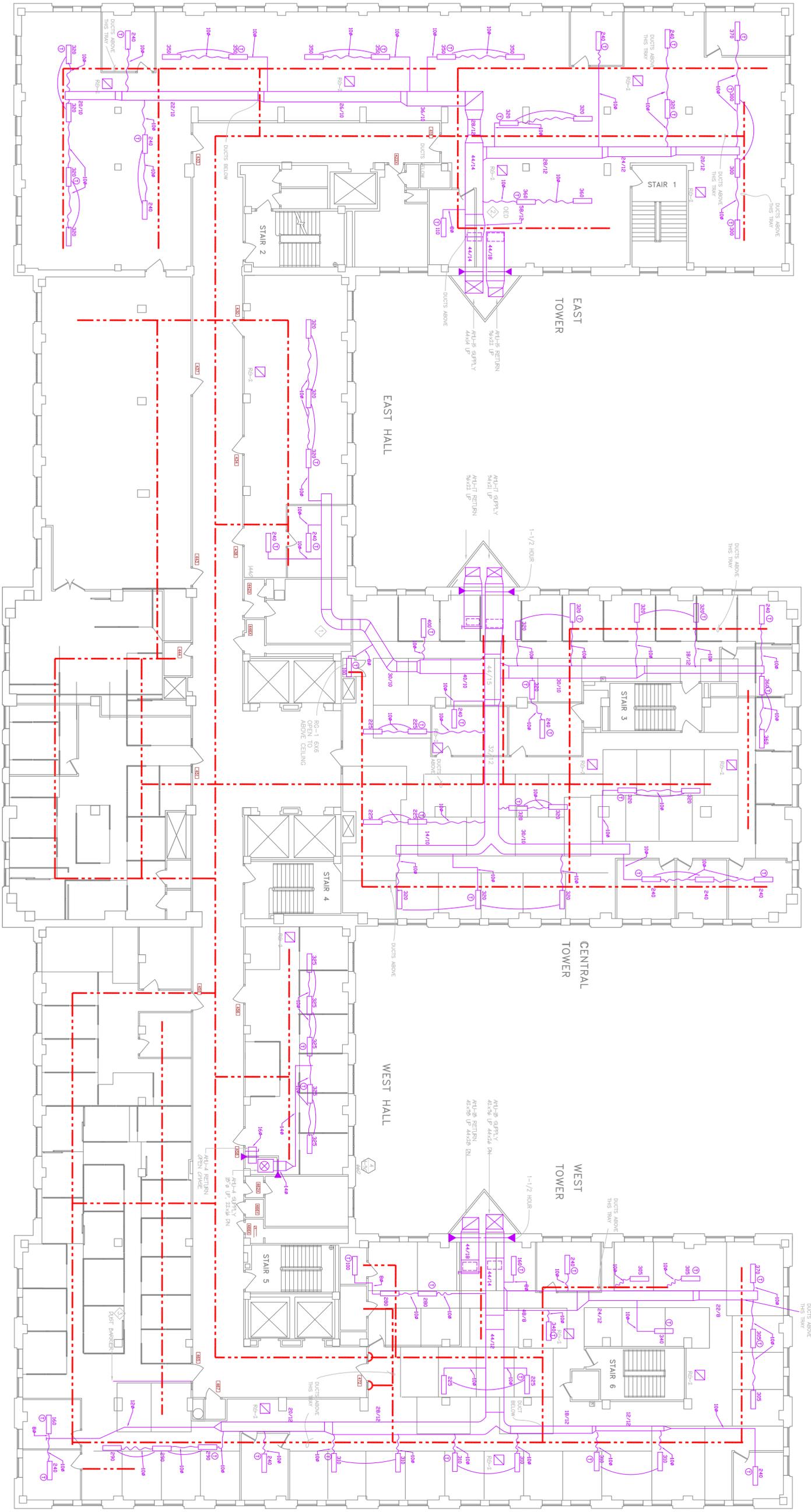
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9/14/95	REBID REVISIONS		W.H.B.
9/13/95	REVISED WOODLINE LAYOUT		G.J.
7/29/97	RECORD DRAWINGS		

Drawing Title  
 Third Floor  
 Mechanical  
 Remodeling Plan

Rebid Sheet No.  
 8.16



**NOTE:**  
 THIS SHEET SHALL BE USED IN CONJUNCTION WITH ALL OTHER SHEETS OF THIS PROJECT. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND THE LOCATION OF ALL DUCTS AND EQUIPMENT BEFORE BEGINNING WORK. ANY CHANGES TO THE DUCT LAYOUT SHALL BE APPROVED BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL JURISDICTIONS. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SERVICES AND UTILITIES AT ALL TIMES.

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1 FOURTH FLOOR PLAN  
 1/8" = 1'-0"

- ◇ REMOVE AND REPAIRMENT OF GYP-SUM OR PLASTER CEILING FOR INSULATION OF NEW DUCT WORK TO BE BY HVAC CONTRACTOR.
- ◇ CUTTING AND PATCHING OF EXISTING CHASERS FOR REMOVAL OF EXISTING AND INSTALLATION OF NEW DUCTWORK IS BY HVAC CONTRACTOR.
- ◇ DUST BARRIER. SEE DETAIL 8-824.



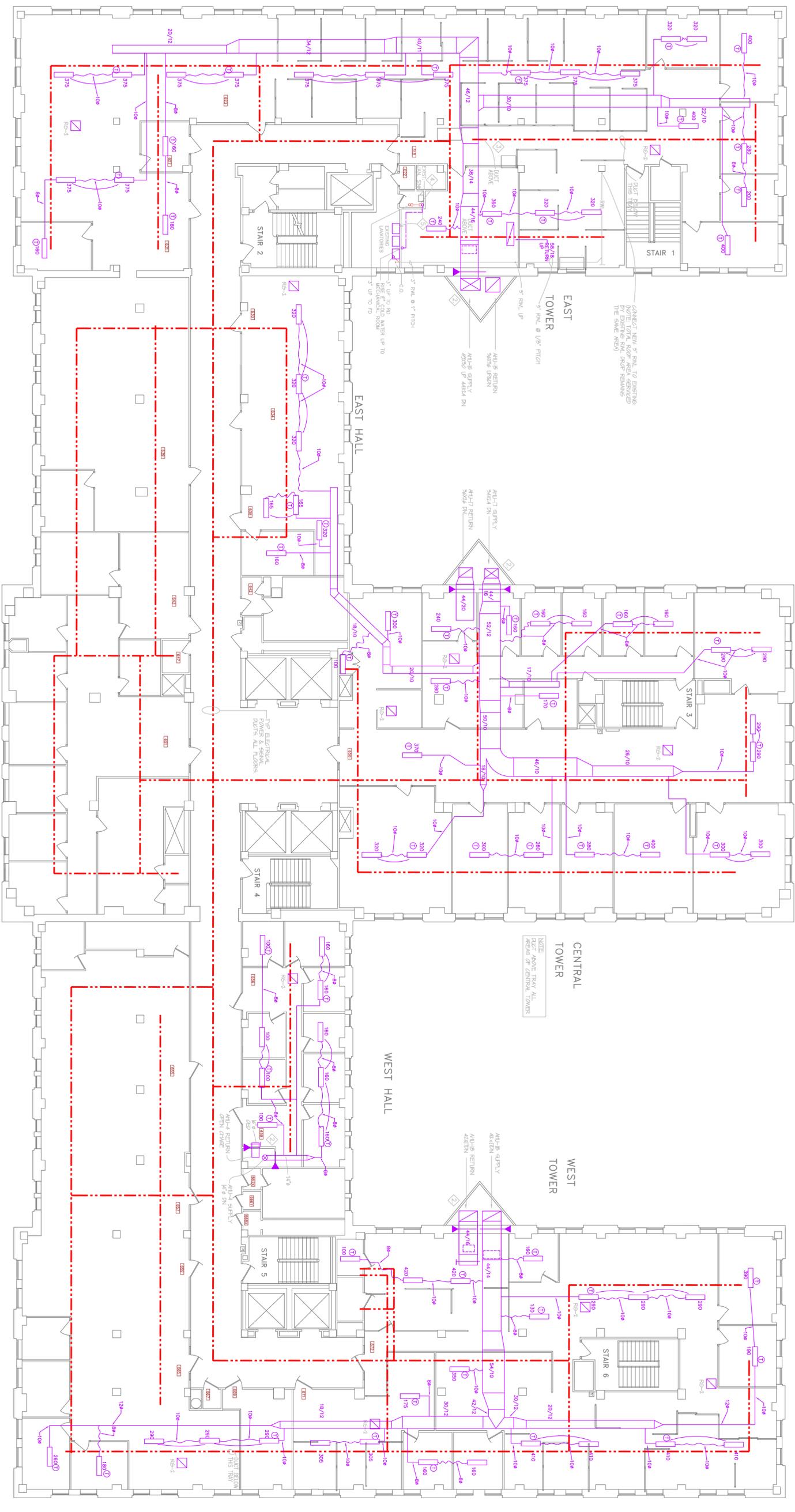
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Date	Issuance/Revisions	Symbol	Drawn by	Checked by	Scale	Job No.
9/14/95	REDO REVISIONS		W.H.B.	G.L.	1/8" = 1'-0"	9324-00
3/13/95	REDO MODIFIED LAYOUT					
2/24/97	REDO DRAWINGS					

Drawing Title: Fourth Floor Mechanical Remodeling Plan

Rebid Sheet No. 8.17





1 SIXTH FLOOR PLAN  
 8.19 / 1/8" = 1'-0"

- ◊ REMOVAL AND REPLACEMENT OF DRYWALL OR PLASTER CEILING FOR INSTALLATION OF NEW DUCT WORK IS TO BE BY HVAC CONTRACTOR.
- ◊ CUTTING AND PATCHING OF EXISTING CHASES FOR REMOVAL OF EXISTING AND INSTALLATION OF NEW DUCTWORK IS BY HVAC CONTRACTOR.
- ◊ E.C. TO CUT OFF PORTION OF POWER & DATA DUCT TO AVOID NEW DUCT WORK. LOOP DATA CONDUCTOR/COABLES BELOW DUCTWORK. INSTALL POWER CONDUCTORS IN CONDUIT AROUND DUCTWORK.
- ◊ DROP 3" WASTE EXPOSED TO FLOOR BELOW (SH) & CONNECT TO 3"
- ◊ WASTE IN WALL ABOVE JANITOR SINK. SEE DETAIL 18/8/24.
- ◊ CONNECT TO 3/4" COLD WATER IN WALL AT JANITORS SINK OR LAVATORIES AND RISE TO NEW MECHANICAL ROOM ABOVE. SEE DRAWING 8.23.
- ◊ PROVIDE BALL VALVE AT CONNECTION.
- ◊ DUST BARRIER. SEE DETAIL 18/8/24.



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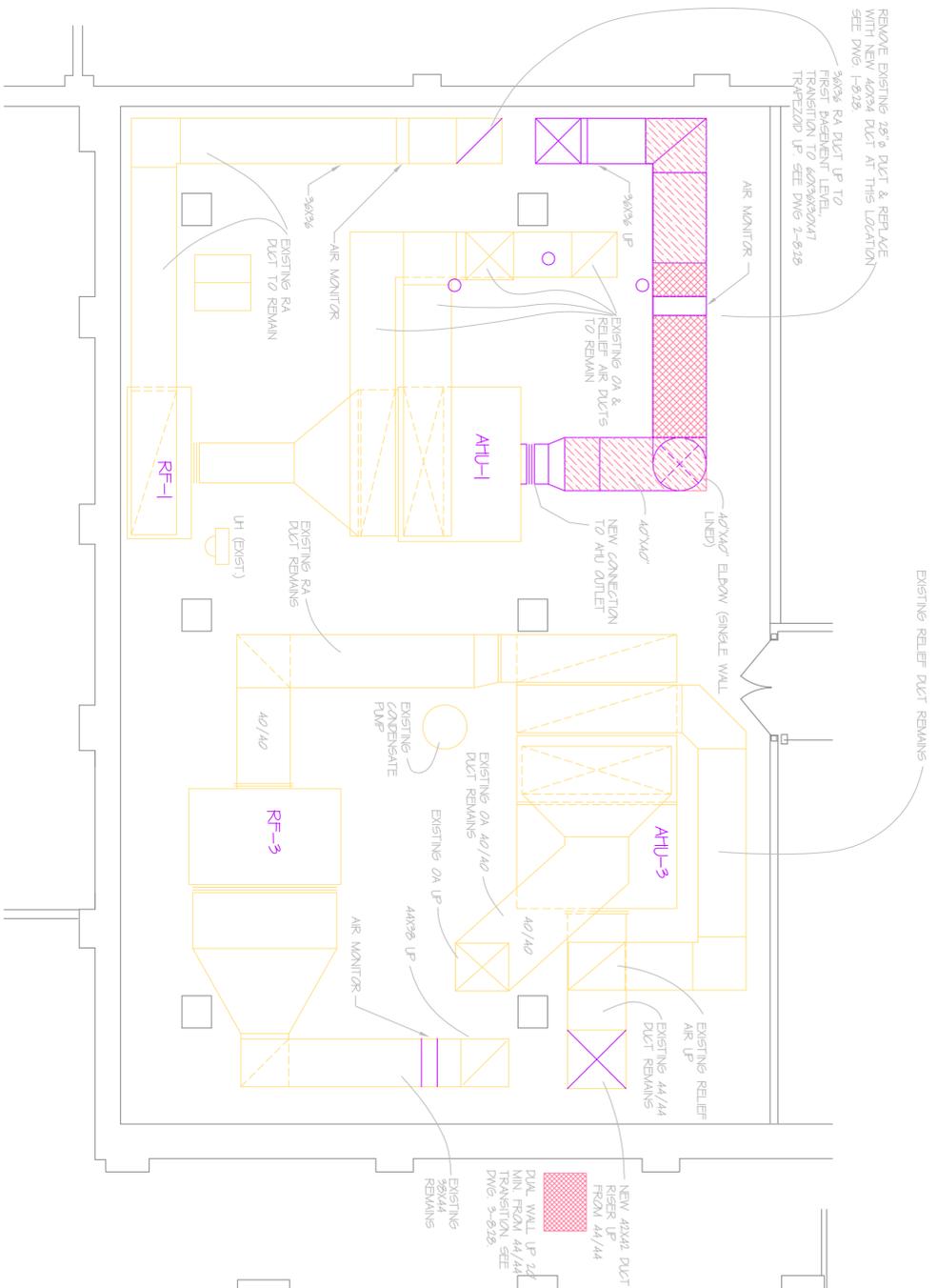
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			Created by	G.J.
			Date	9/14/95
			Scale	1/8" = 1'-0"
			Job No.	9324-00

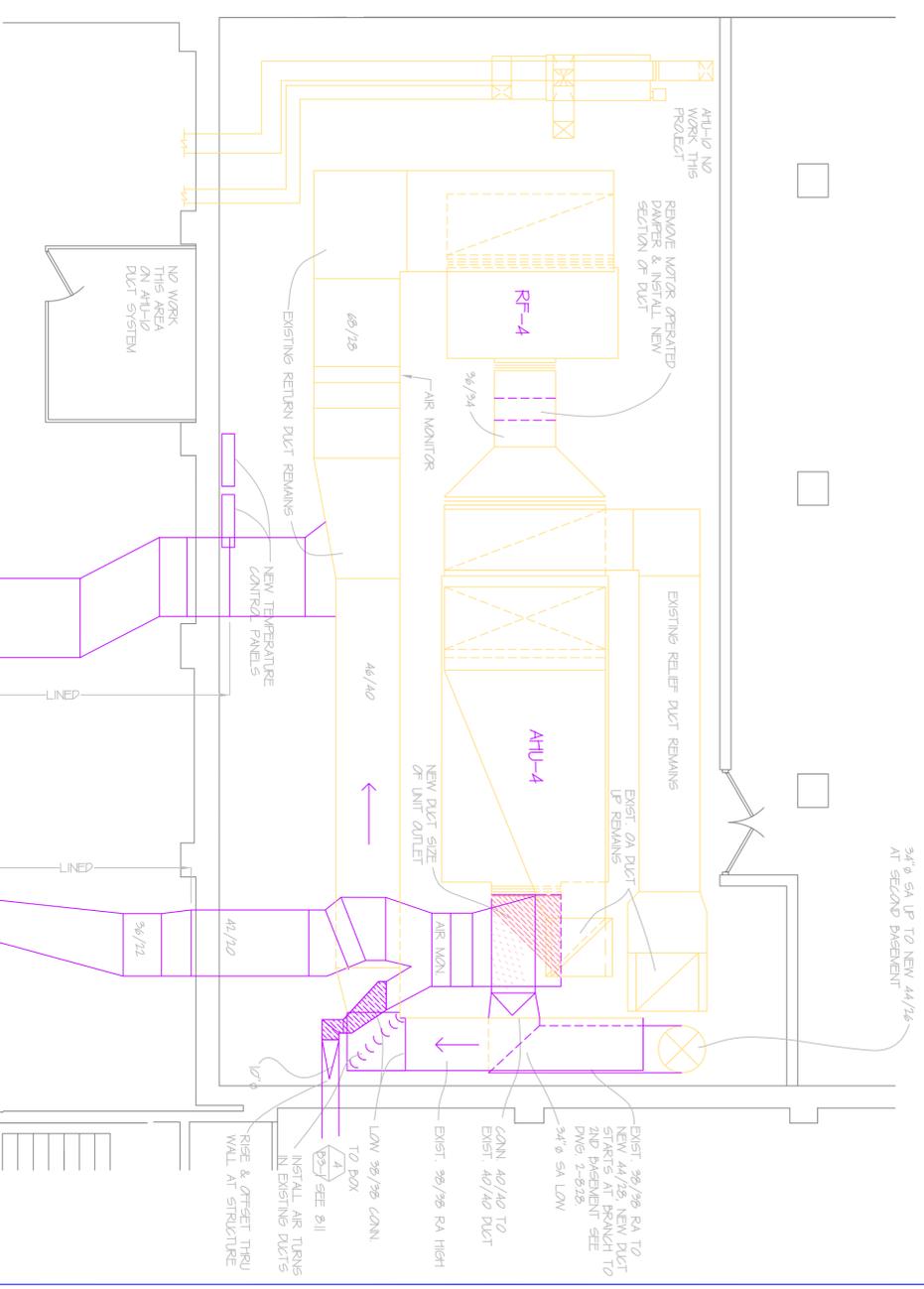
Drawing Title  
 Sixth Floor  
 Mechanical  
 Remodeling Plan

Rebid Sheet No.

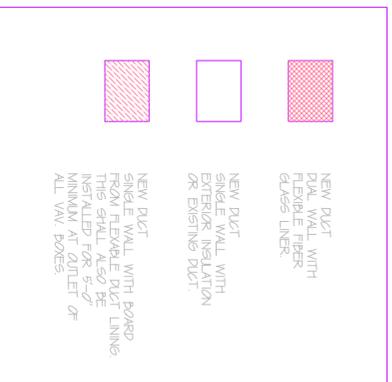
8.19



1 THIRD BASEMENT MECHANICAL ROOM PLAN: AHU-1, AHU-3  
 8.20 1/4" = 1'-0"



2 THIRD BASEMENT MECHANICAL ROOM PLAN: AHU-4  
 8.20 1/4" = 1'-0"



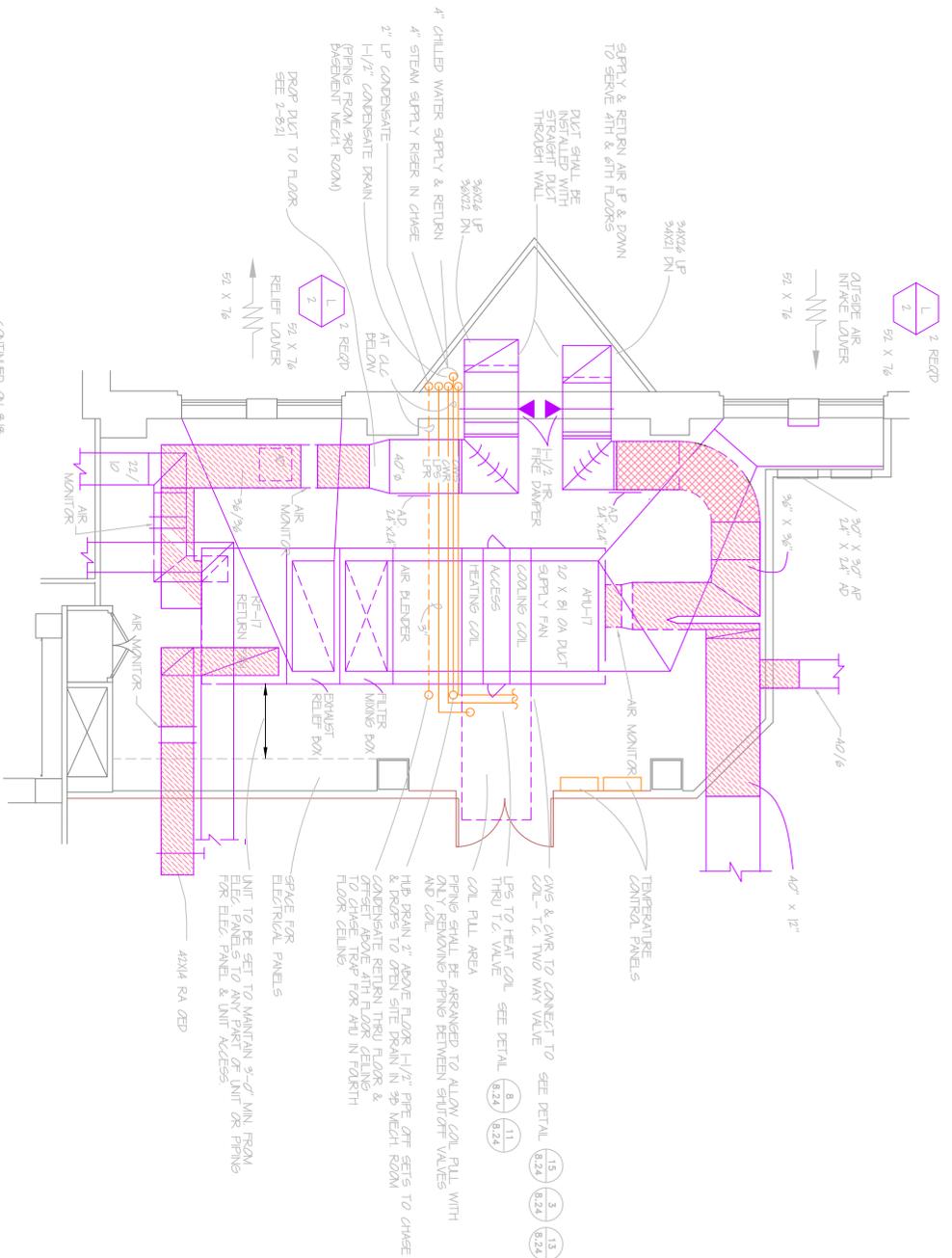
**NOTE:**  
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**HVAC Improvements, Phase III**  
 One West Wilson Street  
 Health and Human Services Building  
 Madison, Wisconsin  
 DIVISION PROJECT NO. 935111

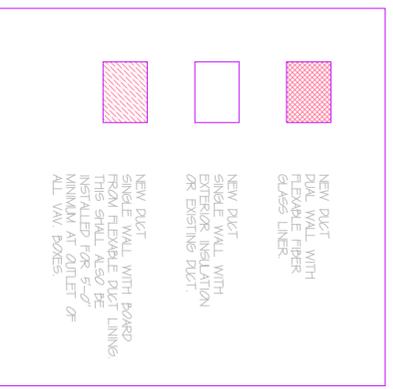
Date	Issuance/Revisions	Symbol/Drawn by
9/14/95	RECORD REVISIONS	J.L.
2/24/97	RECORD DRAWINGS	G.J.
9/14/95		

Drawing Title  
 Third Basement  
 Mechanical Room  
 Plans  
 Rebid Sheet No.  
 8.20

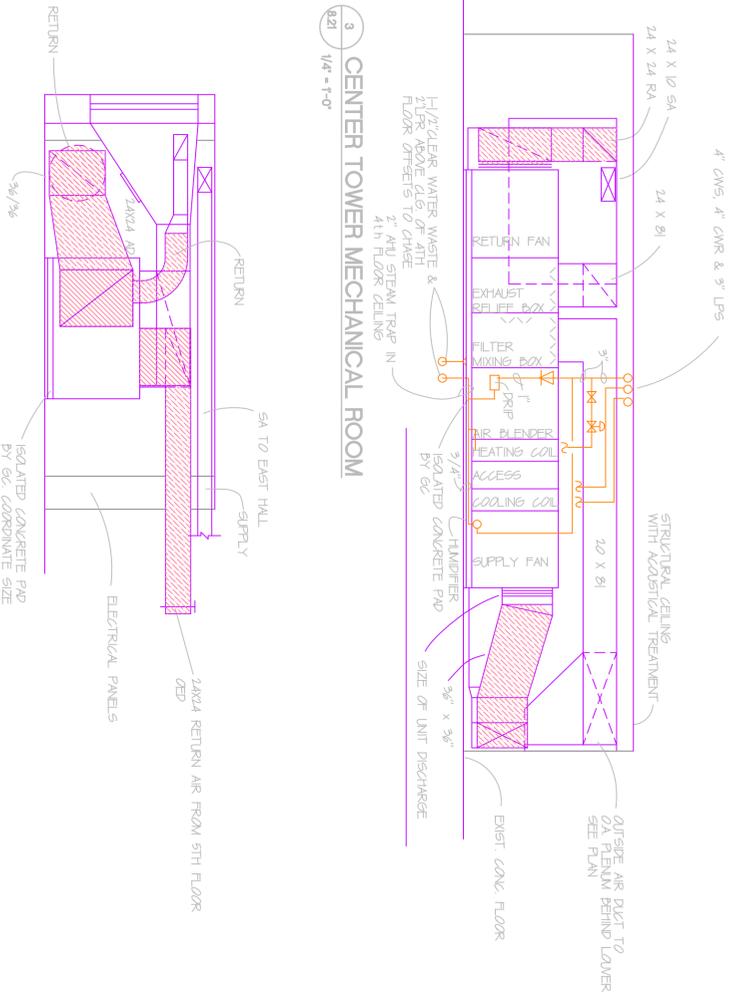


1 FIFTH FLOOR CENTER TOWER MECHANICAL PLAN  
 821 1/4" = 1'-0"

UNIT PIPE CONNECTION SCHEDULE	AHU-17
SERVICE	BRANCH PIPE SIZE
COOL COIL CHILLED WATER SUPPLY	4"
COOL COIL CHILLED WATER RETURN	4"
COOL COIL CONDENSATE DRAIN	1-1/4"
HEAT COIL LP STEAM SUPPLY	2-1/2"
HEAT COIL CONDENSATE RETURN	1-1/2"
HUMIDIFIER LP STEAM SUPPLY	1-1/2"
HUMIDIFIER CONDENSATE RETURN	3/4"



**NOTE:**  
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2 CENTER TOWER MECHANICAL ROOM SECTION  
 821 1/4" = 1'-0"

3 CENTER TOWER MECHANICAL ROOM  
 821 1/4" = 1'-0"

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**HVAC Improvements, Phase III**  
 One West Wilson Street  
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 Madison, Wisconsin  
 DIVISION PROJECT NO. 93511

Date	Issuance/Revisions	Symbol	Drawn by
9/14/95	RECD REVISIONS		J.L.
2/24/97	RECORD DRAWINGS		

Date	Checked by
9/14/95	G.L.

Scale	Job No.
1/4" = 1'-0"	93024.00

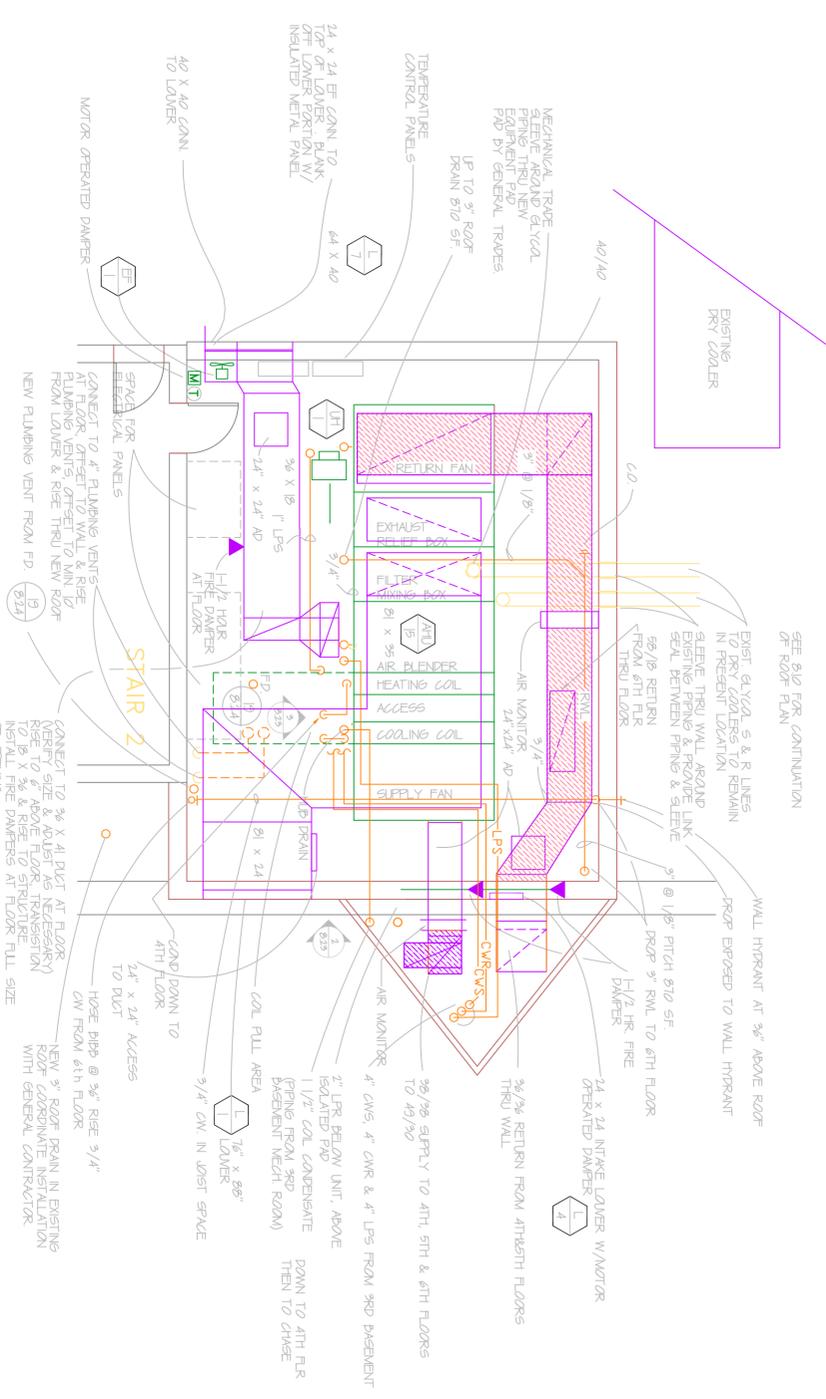
Drawing Title: Fifth Floor Mechanical Floor Plan AHU-17  
 Rebid Sheet No. 8.21



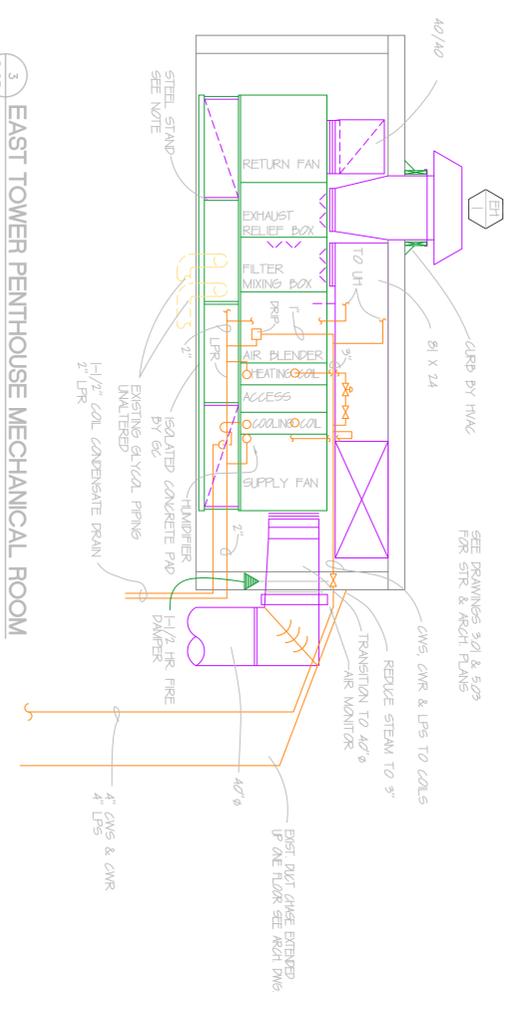
UNIT PIPE CONNECTION SCHEDULE AHU-15	
SERVICE	BRANCH PIPE SIZE
COOL COIL CHILLED WATER SUPPLY	4"
COOL COIL CHILLED WATER RETURN	4"
COOL COIL CONDENSATE DRAIN	1-1/4"
HEAT COIL LP STEAM SUPPLY	2-1/2"
HEAT COIL CONDENSATE RETURN	1-1/2"
HUMIDIFIER LP STEAM SUPPLY	1-1/4"
HUMIDIFIER CONDENSATE RETURN	3/4"
UNIT PIPE CONNECTION SCHEDULE AHU-15	
LP STEAM SUPPLY	1"
COIL CONDENSATE RETURN	3/4"

FOR PIPING AT AIR HANDLING UNITS  
 SEE DETAILS 15, 3, 13 FOR CHILLED WATER PIPING  
 SEE DETAILS 8, 11 FOR STEAM PIPING  
 SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LOWERS IN WALL

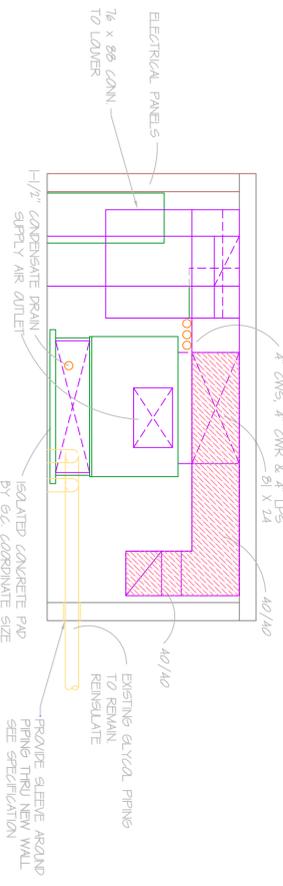
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1 SEVENTH FLOOR EAST TOWER PENTHOUSE MECHANICAL PLAN  
 8.23 1/4" = 1'-0"



3 EAST TOWER PENTHOUSE MECHANICAL ROOM  
 8.23 1/4" = 1'-0"



2 EAST TOWER PENTHOUSE MECHANICAL ROOM  
 8.23 1/4" = 1'-0"

**NOTE:**  
 CONCRETE PIPS EXTEND BELOW UNITS.

AHU-15 SHALL BE SET ON STEEL FRAME CONSTRUCTED OF 4" CHANNEL BELOW UNIT SUPPORT FRAME AND 4" CHANNEL ON CONCRETE ISOLATION PAD CHANNELS SHALL BE FULL LENGTH OF UNIT. PROVIDE MINIMUM OF FIVE-2" STEEL PIPE LEGS EACH SIDE WELDED TO CHANNELS TOP & BOTTOM PROVIDE 1" PIPE GROSS SPACE AT THREE SETS OF LEGS (CENTER AND EACH END)

	NEW DUCT DUAL WALL WITH FLEXIBLE FIBER GLASS LINER
	NEW DUCT SINGLE WALL WITH EXTERIOR INSULATION OR EXISTING DUCT
	NEW DUCT SINGLE WALL WITH BOARD FROM FLEXIBLE DUCT LINING THIS SHALL ALSO BE INSTALLED FOR 5'-0" MINIMUM AT OUTLET OF ALL VAV BOXES

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**HVAC Improvements, Phase III**  
 One West Wilson Street  
 Health and Human Services Building  
 Madison, Wisconsin

DIVISION PROJECT NO. 93511

Date	Issuance/Revisions	Symbol	Drawn by	Checked by	Scale	Job No.
9/14/95	REDO REVISIONS		J.J.	G.L.	1/4" = 1'-0"	9324-80
2/24/97	RECORD DRAWINGS					

Seventh Floor  
 Mechanical  
 Penthouse Plan  
 AHU-15

Rebid Sheet No. 8.23



**AIR HANDLING UNIT SCHEDULE**

SYMBOL	AHU-1 EXISTING	AHU-3 EXISTING	AHU-4 EXISTING	AHU-15	AHU-17	AHU-18
LOCATION	B3	B3	B3	7TH FLOOR	5TH FLOOR	5TH FLOOR
MODEL NO.	39 ED 2Z	39 ED 39	39 ED 48	39 NK 39	39 NK 39	39 NK 49
UNIT ARRANGEMENT	HOT	HOT	HOT	HOT	HOT	HOT
AIRFLOW (CFM)	1800	2400	2400	2200	1900	2500
VAV (OUTSIDE AIR (CU))	1800	2650	2600	1800	2050	2300
ERT S.P. (IN W.C.)	1.4	NO	1.0	NO	2.75	NO
UNIT FREQ. & RT-FREQS	NO	NO	NO	NO	NO	NO
UNIT FREQ. H.P.	156/205	NO	30/275	30	35	40
VOLTAZ./PHASE	480/3	480/3	480/3	480/3	480/3	480/3
DRIVE	BEU	BEU	BEU	BEU	BEU	BEU
FAN WHEEL	FC	FC	FC	FC	FC	FC
FILTER	EXISTING	EXISTING	EXISTING	SEE SPEC.	SEE SPEC.	SEE SPEC.
REARBOARDMENT	---	---	---	PLU/MAK BOX	PLU/MAK BOX	PLU/MAK BOX
ISOLATION	EXISTING	EXISTING	EXISTING	INTERNAL	INTERNAL	INTERNAL
ISOLATION DETECTION	---	---	---	---	---	---
NOTES	1,3	1,3	1,3	2,4,5,6	2,4,5,6	2,4,5,6

**COOLING COIL (CHILLED WATER)**

SYMBOL	AHU-1 EXISTING	AHU-3 EXISTING	AHU-4 EXISTING	AHU-15	AHU-17	AHU-18
ERT DRUM (T)	78.4/61.4	78.4/62.4	78.0/62.1	76.7/61.3	78.6/65.3	78.6/62.3
LAT. DRUM (T)	52.7/52.0	52.7/52.0	52.7/52.0	50.0/49.3	50.0/49.3	50.0/49.3
CAPACITY (MIN. TON)	---	---	---	174.6	174.3	106.4.3
CAPACITY (MAX. TON)	---	---	---	664.5	632.0	940.5
FACE VELOCITY (FPM)	392	620	505	575	517	599
A.S.D. (IN. W.C.)	---	---	---	146	137	138
CHESTED WATER (GPM)	91	133	135	142.1	119.8	122.5
E.M.L. (T)	45	45	45	45	45	45
W.P.D. (T)	12	12	12	10.4	12.3	9.6
W.P.D. (T)	---	---	---	22.1	18.5	14.4

NOTES  
 1. AVAILABLE GPM

**HEATING COIL (STEAM)**

SYMBOL	AHU-1 EXISTING	AHU-3 EXISTING	AHU-4 EXISTING	AHU-15	AHU-17	AHU-18
COIL TYPE	EXIST	EXIST	EXIST	HORIZ. DIST.	HORIZ. DIST.	HORIZ. DIST.
F.A.L. (T)	57.2	56.2	56.2	58.4	56.7	58.7
L.A.L. (T)	70.0	70.0	70.0	70.0	70.0	70.0
FACE VELOCITY (FPM)	592	620	505	755.9	671.2	824
A.S.D. (IN. W.C.)	---	---	---	15	12	17
CAPACITY (MIN)	283.5	362.4	363.8	380.7	285.8	361.7
STEAM PRESSURE	5 PSI	5 PSI	5 PSI	5 PSI	5 PSI	5 PSI

**RETURN FAN SCHEDULE**

SYMBOL	RF-1 EXISTING	RF-3 EXISTING	RF-4 EXISTING	RF-15	RF-17	RF-18
LOCATION	B3 LEVEL	B3 LEVEL	B3 LEVEL	7TH FLOOR	5TH FLOOR	5TH FLOOR
MODEL NO.	39 ER 28	39 ER 32	39 ER 39	39 NK 39	39 NK 39	39 NK 49
ARRANGEMENT	HORIZ.	HORIZ.	HORIZ.	HORIZ.	HORIZ.	HORIZ.
FAN WHEEL	FC	FC	FC	FC	FC	FC
TYPE	AHU-1	AHU-2	AHU-3	AHU-15	AHU-17	AHU-18
SERVICES	EXISTING	EXISTING	EXISTING	ISO PAO/STL. SMO	ISO PAO	AHU-18
AIRFLOW (CFM)	1800	2500	2400	2200	1900	2500
RTM	---	---	---	---	---	---
STATIC PRESS. (IN. W.C.)	1.0	1.0	1.1	0.8	0.8	0.95
HP	10/5	NOTE 3	15/7 1/2	15	15	20
VOLTAZ./PHASE	480/3	480/3	480/3	480/3	480/3	480/3
DRIVE	BEU	BEU	BEU	BEU	BEU	BEU
ISOLATION	EXISTING	EXISTING	EXISTING	INTERNAL	INTERNAL	INTERNAL
ISOLATION DETECTION	---	---	---	---	---	---
NOTES	14	14	14	2,3,5	2,3,5	2,3,5

**LOUVER SCHEDULE**

SYMBOL	LNK6	LNK2	LNK3	LNK4	LNK5	LNK6	LNK7
LOCATION	7TH FLOOR FINI.	5TH FLOOR MECH.	5TH FLOOR MECH.	7TH FLOOR FINI.	5TH FLOOR MECH.	5TH FLOOR MECH.	7TH FLOOR FINI.
MANUFACTURER	INDUSTRIAL						
MODEL NO.	658	658	658	658	658	658	658
TYPE	INTAKE	INTAKE	INTAKE	RELIEF	RELIEF	RELIEF	EXHAUST
SERVICES	AHU-15	AHU-17	AHU-18	EF-1	AHU-17	AHU-18	3-B FT'9/EF-1
MATERIAL	ALUMINUM						
SIZE (MM)	76X88	52X76	123X80	24X24	52X76	123X80	64X40
DEPTH	6	6	6	6	6	6	6
FREE AREA (MIN.)	---	---	---	---	---	---	---

NOTES  
 2 REQUIRED  
 NOTE 1  
 NOTE 1  
 NOTE 1

LOUVER NOTES:  
 1. FIELD VERIFY OPENING SIZE

**AHU-15**

FREQUENCY	DISCHARGE	INLET	DRIVE
31.5 HZ	104	101	98
63 HZ	99	91	81
125 HZ	100	81	78
250 HZ	98	79	75
500 HZ	90	70	64
1000 HZ	84	67	62
2000 HZ	78	58	51
4000 HZ	70	57	51
8000 HZ	61	48	45

**AHU-17**

FREQUENCY	DISCHARGE	INLET	DRIVE
31.5 HZ	104	101	98
63 HZ	99	91	81
125 HZ	100	81	78
250 HZ	98	79	75
500 HZ	90	70	64
1000 HZ	84	67	62
2000 HZ	78	58	51
4000 HZ	70	57	51
8000 HZ	61	48	45

**AHU-18**

FREQUENCY	DISCHARGE	INLET	DRIVE
31.5 HZ	106	103	100
63 HZ	106	101	93
125 HZ	103	85	82
250 HZ	96	77	72
500 HZ	91	71	65
1000 HZ	85	68	63
2000 HZ	79	68	60
4000 HZ	71	58	52
8000 HZ	62	46	46

**STEAM HUMIDIFIER**

SYMBOL	H-15	H-17	H-18
LOCATION	7TH FLOOR FINI.	5TH FLOOR MECH.	5TH FLOOR MECH.
AIR HANDLING SYSTEM	AHU-15	AHU-17	AHU-18
AIRFLOW (CFM)	2200	1900	2500
CAPACITY (LBS./HR)	73	83	93
STEAM PRESSURE (PSI)	5	5	5
DIET. TUBE LENGTH	---	---	---
CONTROL VALVE	PNEUMATIC	PNEUMATIC	PNEUMATIC
CONTROL	SEE SPEC.	SEE SPEC.	SEE SPEC.
REARMS	IN AHU	IN AHU	IN AHU

**GRILLE, REGISTER, DIFFUSER SCHEDULE**

SYMBOL	SD-1	SD-2	SD-3	SD-4	SC-1	RC-1	RC-2
MANUFACTURER	CARRIER	CARRIER	ALUSBO	ALUSBO	ROHM	CHAMES	CARIES
MODEL NO.	AC-0350	AC-0350	AC-0350	AC-0350	ROHM	ROHM	ROHM
DESCRIPTION	4'-2" SLOT-2" W/4"	DOUBLE DEF. 1/4" X 1/4" CORE	1-1/8" DEEP IN				
WALLING	CLC. GRD.	CLC. GRD.	CLC. GRD.	CLC. GRD.	WALL	---	U-CHANNEL
ACCESSORIES	INSULATED BOOT	INSULATED BOOT	INSULATED BOOT	INSULATED BOOT	---	---	---
DAMPERS	NO	NO	NO	NO	YES	NO	NO
REARMS	6" INLET	8" INLET	8" INLET	6" INLET	OFF-WHITE	OFF-WHITE	OFF-WHITE
VAV CFM	130	160	240	110	---	---	---

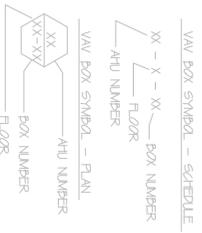
GRILLE, REGISTER, DIFFUSER NOTES:  
 EXISTING SLOT DIFFUSERS MAY BE REMOVED AND REINSTALLED IN LEU QUANTITIES WHICH ARE AVAILABLE. IF REINSTATEMENT OF THE CONTRACTOR IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REINSTALLATION OF EXISTING UNITS.

NOTES APPLICABLE TO ALL HVAC DRAWINGS  
 1. VERIFY UNITS MOTOR OVERHEAT, VAV OR FRAMING AT SPECIFIC LOCATIONS. COORDINATE WITH THE EXISTING LIGHTING, CABLE TRAY, POWER AND MISC. OFFSETS MAY BE REQUIRED FOR COORDINATION OF THE NEW WORK WITH THE EXISTING CONDITIONS.

2. WHERE EXISTING ELECTRICAL JUNCTION BOXES FOR CONNECT WITH THE LOCATION OF NEW DUCT RUNS AND JUNCTION BOXES, THESE MUST BE RELOCATED TO THE LOCATION OF NEW DUCT RUNS. ACCESS PANELS ARE REQUIRED TO BE REINSTALLED IN THE DUCTWORK.

3. HVAC CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF EXISTING UNITS AND REINSTALLATION OF NEW UNITS IN ALL AREA OF THIS PROJECT INCLUDING NEW OR CEILING GRID REMOVAL. SHALL BE DETERMINED BY METHOD OF DUCT REMOVAL AND REINSTALLATION, EXCEPT IN AREA OF NEW MECHANICAL ROOM CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING UNITS AND REINSTALLATION OF NEW UNITS IN ALL AREA OF THIS PROJECT INCLUDING NEW OR CEILING GRID REMOVAL. SHALL BE DETERMINED BY METHOD OF DUCT REMOVAL AND REINSTALLATION, EXCEPT IN AREA OF NEW MECHANICAL ROOM CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING UNITS AND REINSTALLATION OF NEW UNITS IN ALL AREA OF THIS PROJECT INCLUDING NEW OR CEILING GRID REMOVAL. SHALL BE DETERMINED BY METHOD OF DUCT REMOVAL AND REINSTALLATION, EXCEPT IN AREA OF NEW MECHANICAL ROOM CONSTRUCTION. 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PROJECT NAME: 1 WEST WILSON STREET STATE OFFICE BLDG.  
 PROJECT NUMBER: 9324-00  
 FILE NAME: 9324-826



**NOTE:**  
 THE DRAWING HAS BEEN REVISED AND/OR TO REFLECT THE LATEST REVISIONS. ANY CHANGES TO THE DRAWING SHALL BE MADE TO THE LATEST REVISION. ANY CHANGES TO THE DRAWING SHALL BE MADE TO THE LATEST REVISION. ANY CHANGES TO THE DRAWING SHALL BE MADE TO THE LATEST REVISION.

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**HVAC Improvements, Phase III**  
**One West Wilson Street**  
**Health and Human Services Building**  
**Madison, Wisconsin**

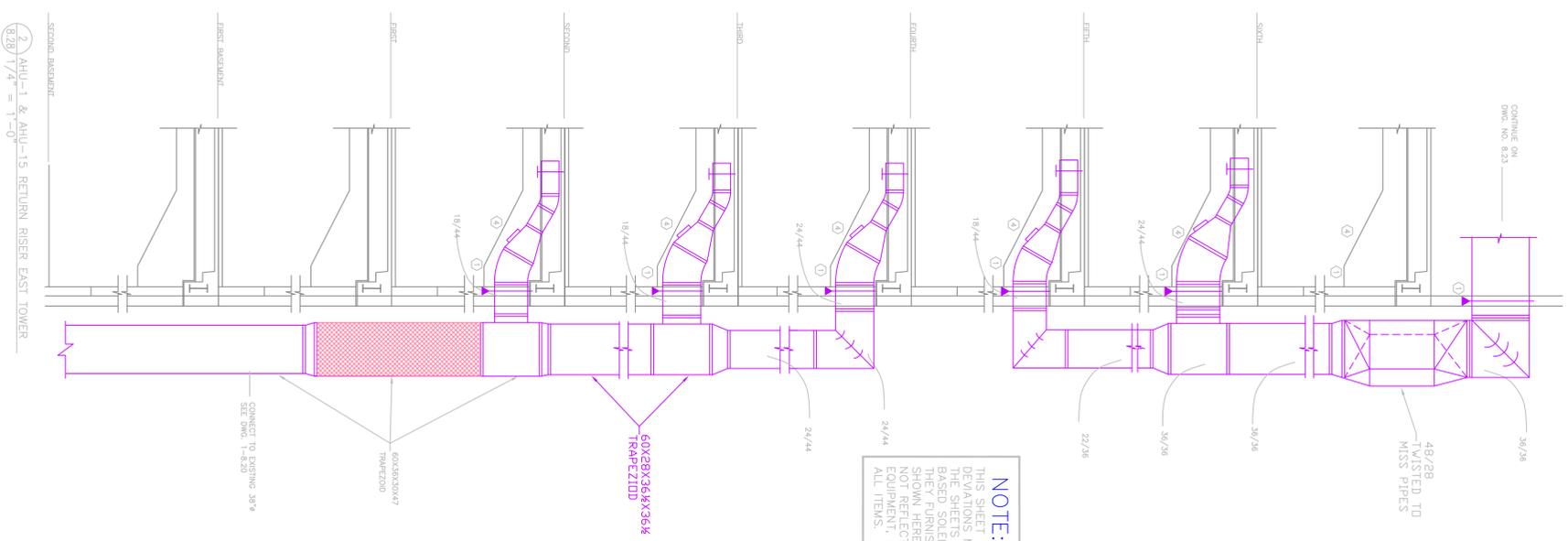
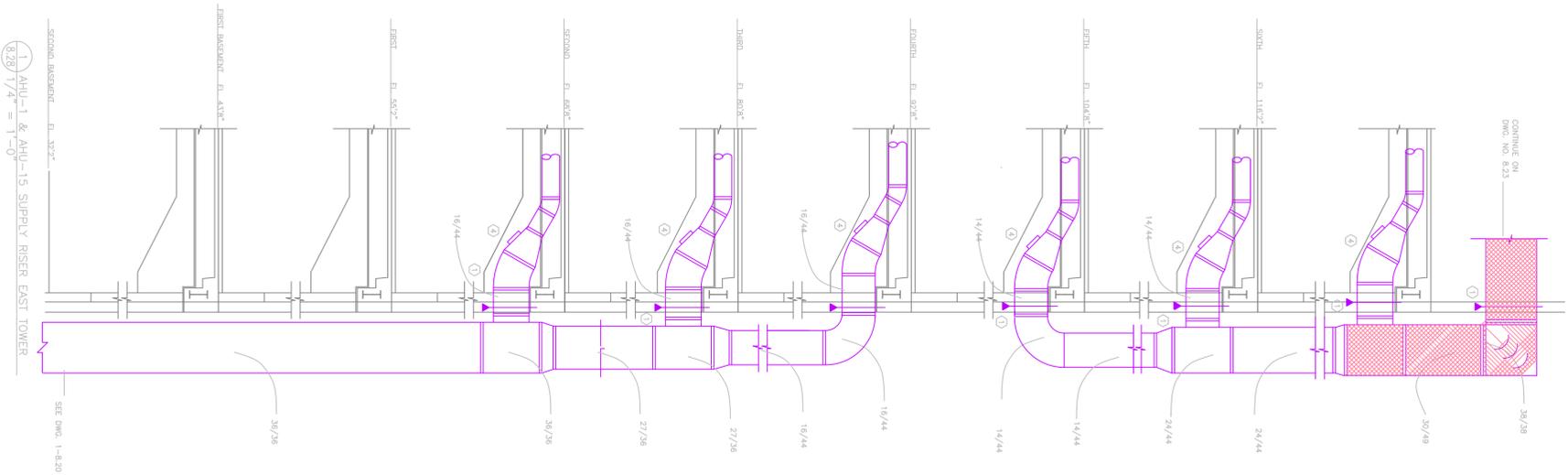
DIVISION PROJECT NO. 93511

Date	Issuance/Revisions	Symbols	Drawn by	Checked by	Scale	Job No.
9/14/95	RENO REVISIONS		C.F.	G.J.	1/8" = 1'-0"	9324-00
2/22/97	RECORD DRAWINGS					

Drawing Title  
**Mechanical  
 Equipment  
 Schedules**

Rebid Sheet No.  
**8.26**

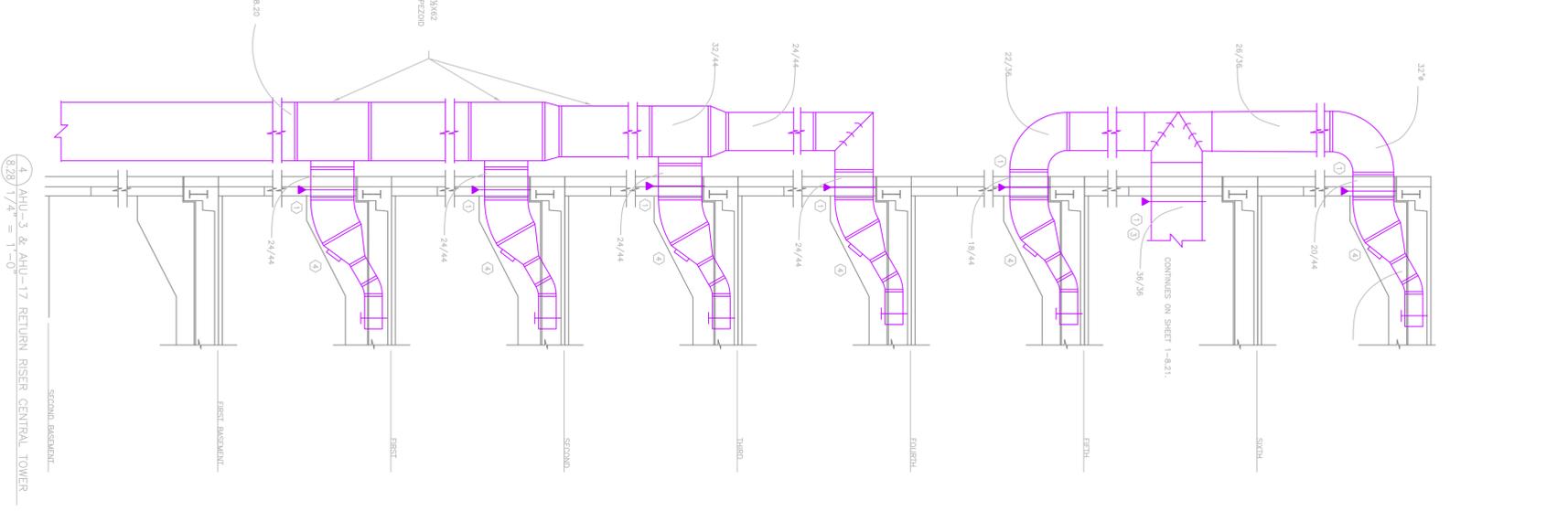
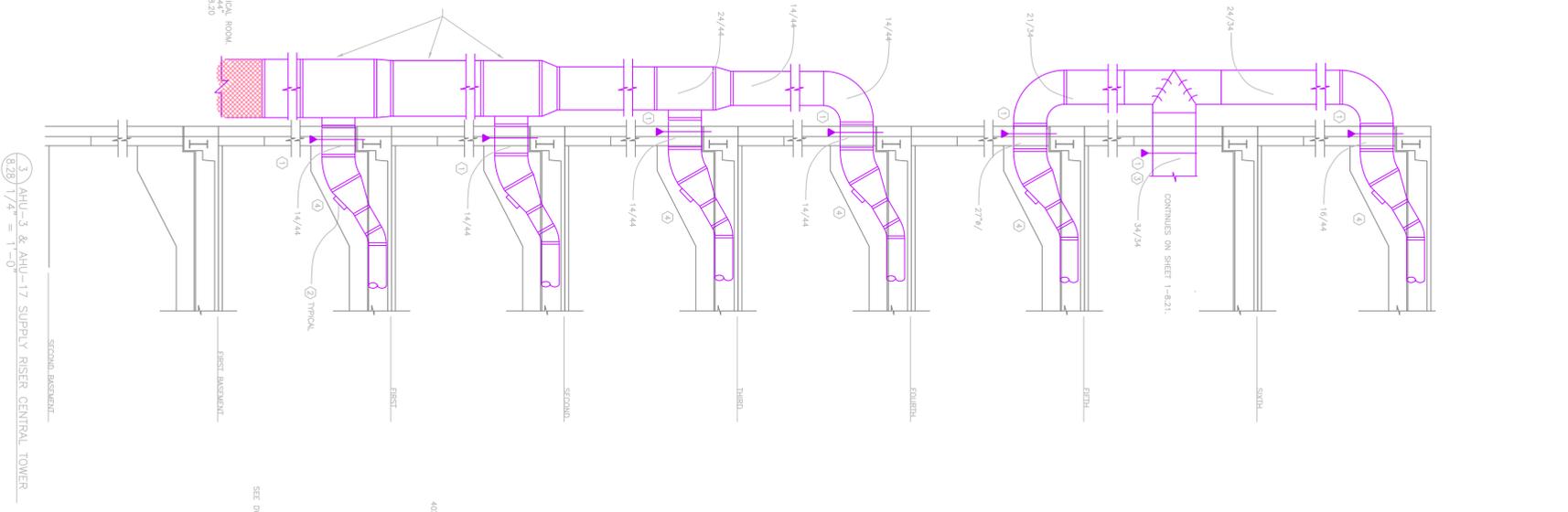




**NOTE:**  
 THIS SHEET WAS REVISED 8/15/97 TO REFLECT DEVIATIONS MADE BY GENERAL HEATING FROM THE SHEETS ISSUED FOR CONSTRUCTION AND IS BASED SOLELY ON THE INFORMATION AND DATA OBTAINED FROM THE FIELD. THE INFORMATION ON THIS SHEET IS FOR GENERAL INFORMATION ONLY AND NOT REFLECT THE EXACT LOCATION FOR LINES, EQUIPMENT, ETC. VERIFY EXACT LOCATION OF ALL ITEMS.

- SPECIFIC DUCT RISER NOTES:**
- ① 1-1/2" HR. FIRE DAMPERS AROUND DUCT TO MATCH EXISTING
  - ② ACCESS PANEL, REMOVE AS FIRE DAMPER ACCESS PANEL TO BE 12X24" MINIMUM
  - ③ DUCT TO BE JUST ABOVE EXISTING WINDOW SILL
  - ④ LAY IN THE CEILING SHALL BE REVISED AS REQUIRED TO GET OUT OF DUCT SHIRT AND THROUGH FLOOR JOIST SPACES. FIRE DAMPER SHALL BE AS CLOSE TO DUCT AS POSSIBLE TO MAINTAIN ACCESS TO DUCT PANEL. TO MAINTAIN ACCESS TO DUCT PANEL.
  - ⑤ 1-1/2" HR. FIRE DAMPER PATCH/SEAL FLOOR AROUND DUCT.

- GENERAL DUCT RISER NOTES:**
1. COORDINATE RISER WITH EXISTING EXTERIOR WALL OF BUILDING.
  2. CUTTING AND PATCHING OF EXISTING WALLS AT CHASE SHALL BE BY TRADES EXPERIENCED IN PERFORMANCE OF WORK REQUIRED.
  3. SCHEDULE FOR WORK ON EACH FLOOR WHEN A PORTION OF DUCT IS REMOVED WHEN EXISTING DUCT IS TO REMAIN IN SERVICE.



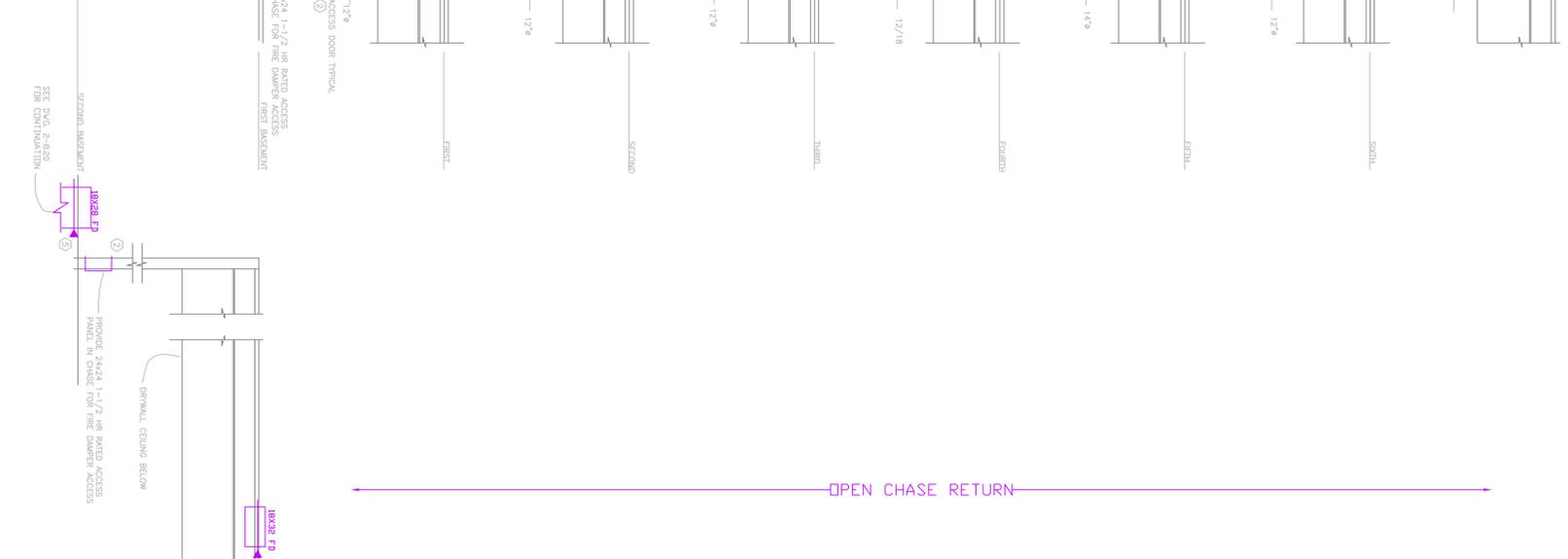
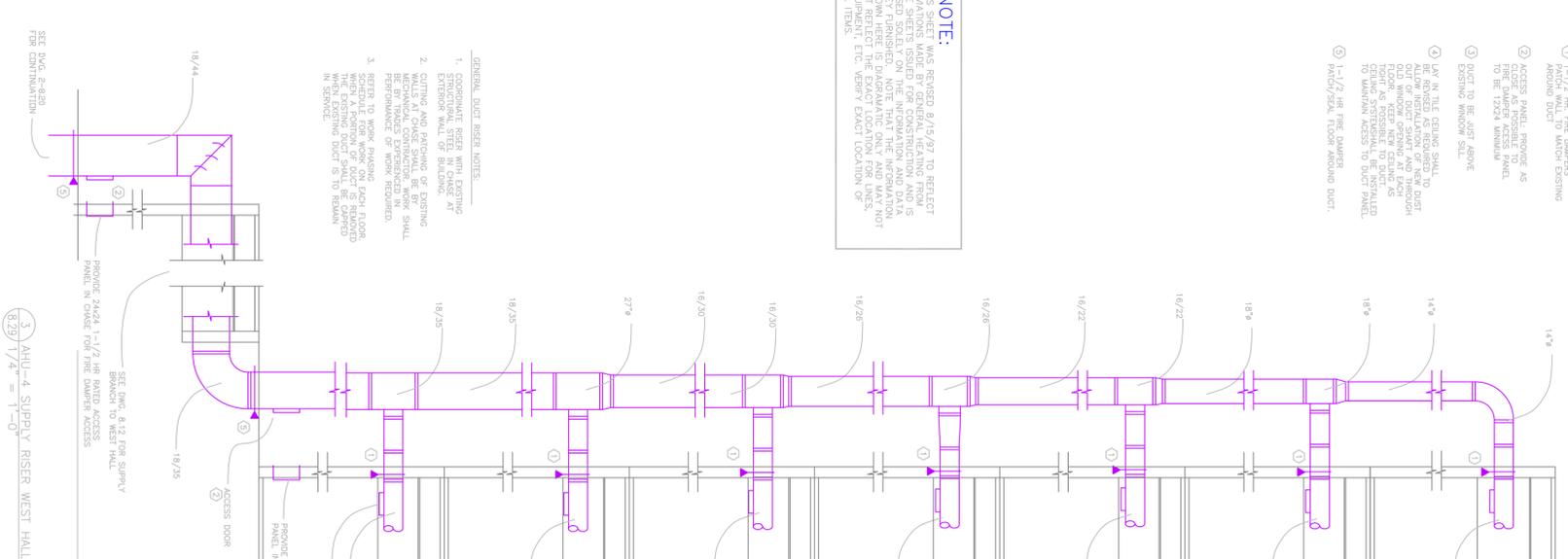
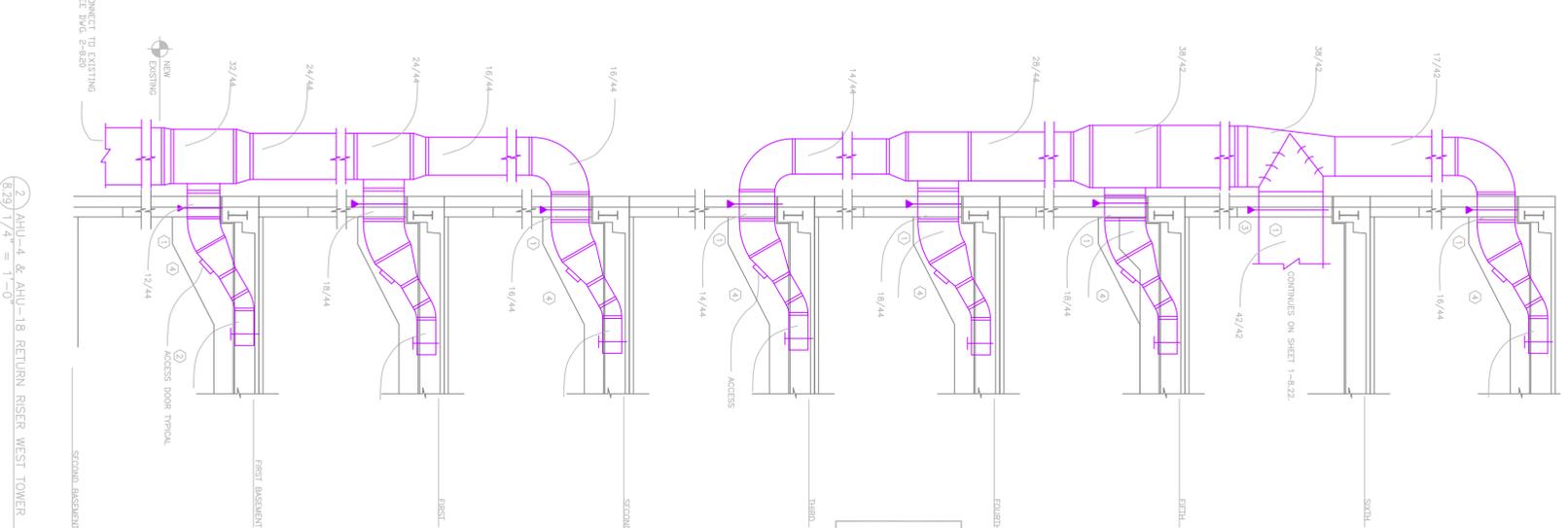
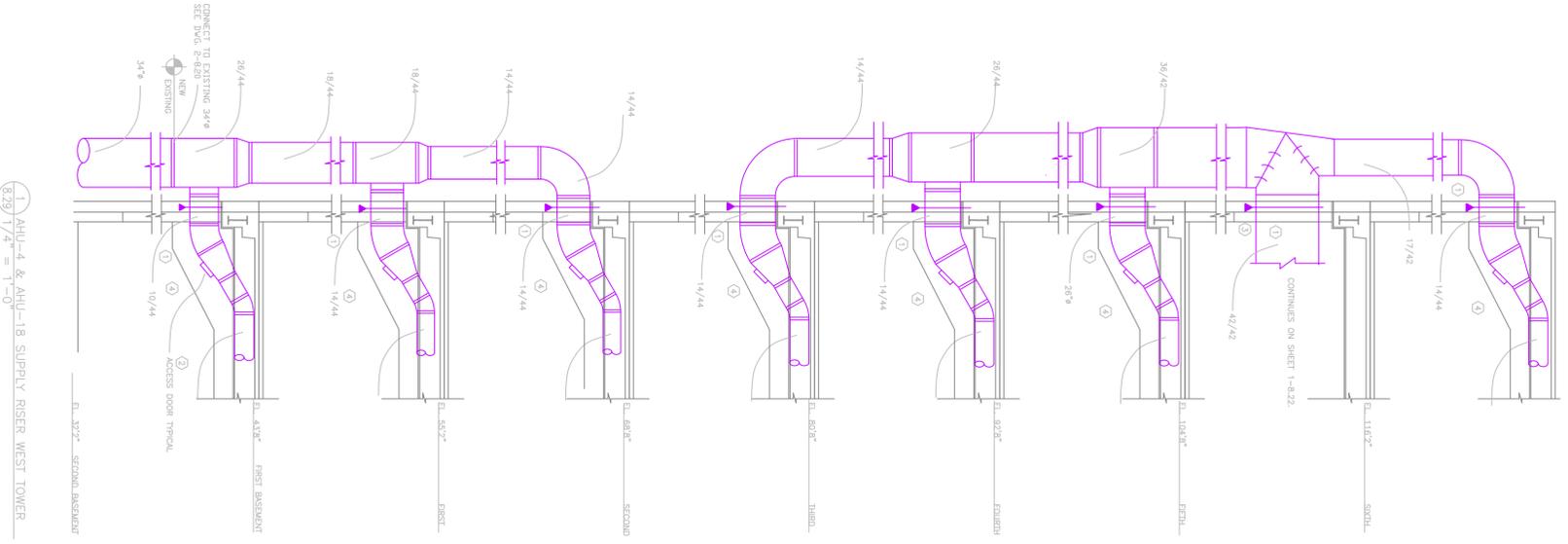
**Potter Lawson ENGINEERS**  
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 Madison, Wisconsin  
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**HVAC Improvements, Phase III**  
 One West Wilson Street  
 Health and Human Services Building  
 Madison, Wisconsin  
 DIVISION PROJECT NO. 93511

Date	Issuance/Revisions	Symbol	Drawn by
9/14/95	RECORD REVISIONS		C.F.
2/24/97	RECORD DRAWINGS		C.F.

Checked by	Date	Scale	DWG No.
C.F.	9/14/95	1/4" = 1'-0"	9324-80

Drawing Title: **East and Central Tower Duct Risers**  
 Rebid Sheet No. **8.28**



SPECIFIC DUCT RISER NOTES:

- ① 1-1/2 HR. FIRE DAMPERS AROUND DUCT TO MATCH EXISTING
- ② ACCESS PANEL PROVIDE AS FIRE DAMPER ACCESS PANEL TO BE 1224 MINIMUM EXISTING WINDOW SILL
- ③ DUCT TO BE JUST ABOVE EXISTING WINDOW SILL
- ④ LAY IN THE CHASE SHALL BE REVERSED AS REQUIRED TO MAINTAIN ACCESS TO DUCT. OLD WINDOW OPENING AT EACH FLOOR SHALL BE MAINTAINED AS MUCH AS POSSIBLE TO DUCT. TO MAINTAIN ACCESS TO DUCT PANEL
- ⑤ 1-1/2 HR. FIRE DAMPER PANEL/SEAL FROM AROUND DUCT

**NOTE:**  
 THIS SHEET WAS REVERSED 8/15/97 TO REFLECT THE RISERS USED BY CONTRACTOR. REVISION FROM 8/15/97 SHEET 8.29-4-829. THIS SHEET IS BASED SOLELY ON THE INFORMATION AND DATA PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL SHOW RISER SIZE, DIAGONAL CHASE, AND VAVES. NOT REFLECT THE EXACT LOCATION FOR LINES, ALL ITEMS ETC. VERIFY EXACT LOCATION OF ALL ITEMS.

- GENERAL DUCT RISER NOTES:**
1. COORDINATE RISER WITH EXISTING STRUCTURAL STEEL IN CHASE AT FLOOR LEVELS.
  2. CURING AND BONDING OF EXISTING WELLS AT CHASE SHALL BE BY REFER TO WORK PACKAGED FIRE RISK PERFORMANCE OF WORK REQUIRED.
  3. REFER TO WORK PACKAGING EACH FLOOR WHEN A PORTION OF DUCT IS REMOVED WHEN EXISTING DUCT IS TO REMAIN IN SERVICE.

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**HVAC Improvements, Phase III**  
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 DIVISION PROJECT NO. 93511

Date	Issuance/Revisions	Symbol	Drawn by
9/14/95	REBID REVISIONS		C.F.
2/28/97	RECORD DRAWINGS		G.J.

During the West Tower and West Hall Duct Risers

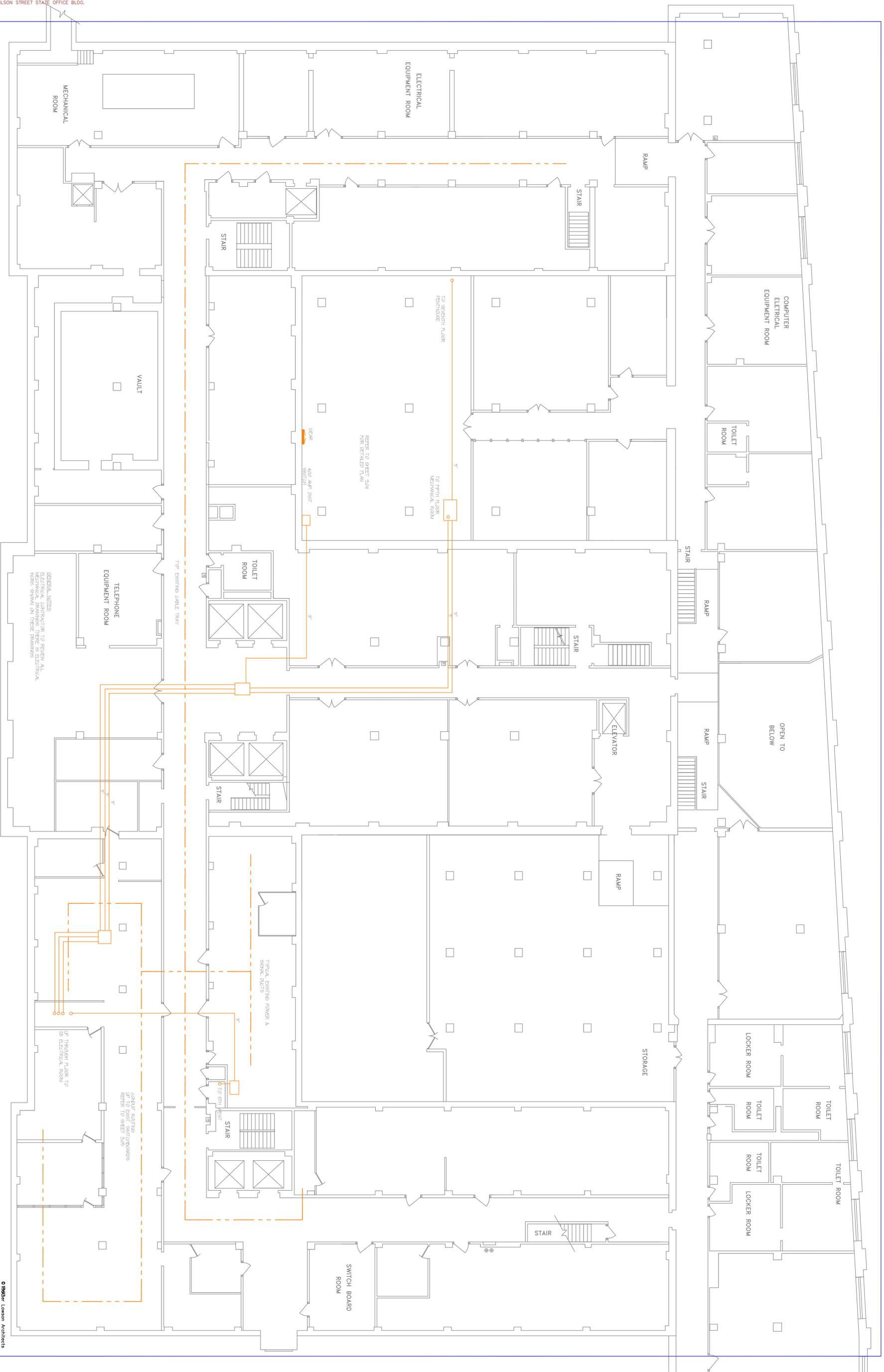
Rebid Sheet No. 8.29



PROJECT  
NORTH

1 THIRD BASEMENT FLOOR PLAN  
 901 1/8" = 1'-0"

NOTE:  
 THIS PLAN IS A PRELIMINARY DESIGN AND IS SUBJECT TO CHANGE WITHOUT NOTICE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND CONDITIONS OF THE SITE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.



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**HVAC Improvements, Phase III**  
 One West Wilson Street  
 Health and Human Services Building  
 Madison, Wisconsin

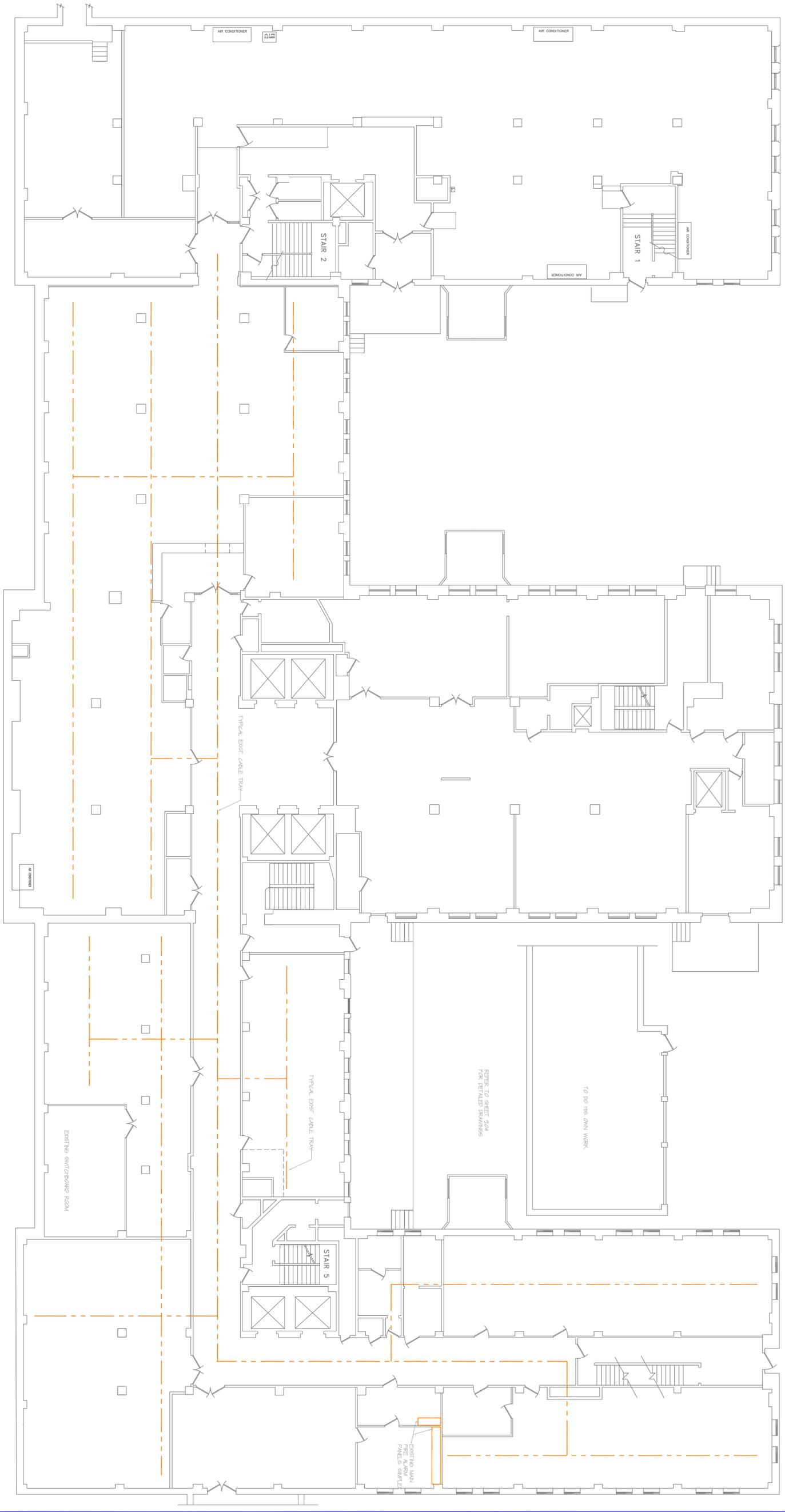
DIVISION PROJECT NO. 93511

Date	Issuance/Revisions	Symbols	Drawn by	Checked by	Scale	Sheet No.
9/14/95	REVISIONS		WHB	B.C.	1/8" = 1'-0"	9.01
7/27/97	RECORD DRAWINGS					

Drawing Title: Third Basement Electrical Remodeling Plan

Sheet No.: 9.01

0 Potter Lawson Architects



**NOTE:**  
 THIS DRAWING HAS BEEN REVISED AS OF 9/17/95 TO REFLECT THE REVISIONS TO THE ELECTRICAL DRAWINGS. THE REVISIONS TO THE ELECTRICAL DRAWINGS ARE NOT TO BE USED TO REVISION THE MECHANICAL DRAWINGS. THE MECHANICAL DRAWINGS ARE TO BE USED TO REVISION THE ELECTRICAL DRAWINGS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM CODE (NFPA).

1 SECOND BASEMENT FLOOR PLAN  
 9.02 1/8" = 1'-0"

GENERAL NOTES:  
 REFER TO SHEET 904 FOR RETAILED DRAWINGS.  
 REFER TO SHEET 904 FOR RETAILED DRAWINGS.

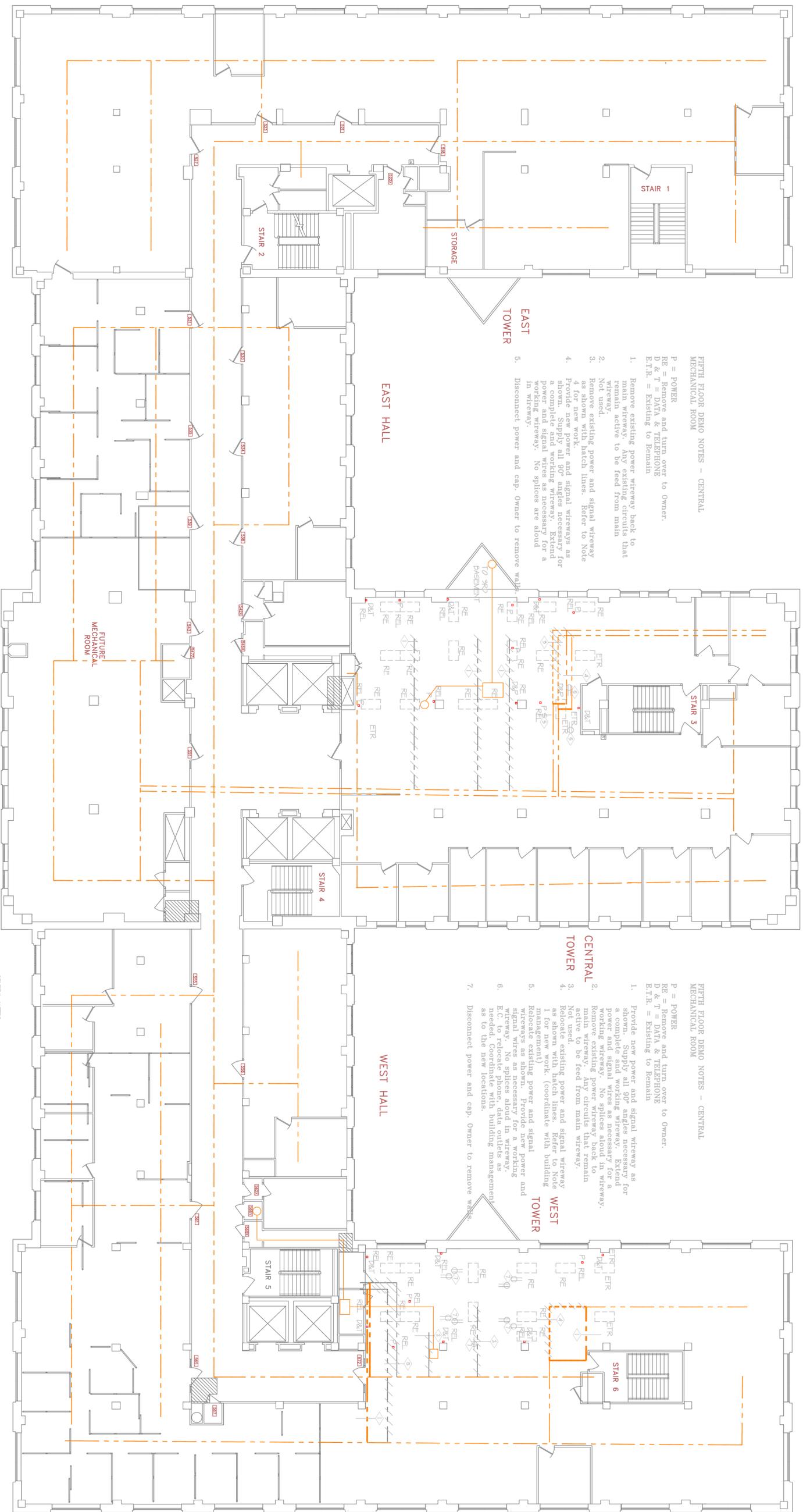


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**HVAC Improvements, Phase III**  
 One West Wilson Street  
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 DIVISION PROJECT NO. 93511

Date	Issuance/Revisions	Symbol/Drawn by	Checked by	Scale	Job No.
9/14/95	REVISIONS	WHB	B.C.	1/8" = 1'-0"	9324.00
2/24/97	RECORD DRAWINGS				

Drawing Title: Second Basement Electrical Remodeling Plan  
 Sheet No.: 9.02  
 Potter Lawson Architects



FIFTH FLOOR DEMO NOTES - CENTRAL MECHANICAL ROOM

- P = POWER
- RE = Remove and turn over to Owner.
- D & T = DATA & TELEPHONE
- E.T.R. = Existing to Remain
- 1. Remove existing power wireway back to main wireway. Existing circuits that remain active to be feed from main wireway.
- 2. Not used.
- 3. Remove existing power and signal wireway as shown with hatch lines. Refer to Note 4 for new work.
- 4. Provide new power and signal wireways as shown. Supply all 90° angles necessary for a complete and working wireway. Extend power and signal wires as necessary for a working wireway. No splices are allowed in wireway.
- 5. Disconnect power and cap. Owner to remove waste.

FIFTH FLOOR DEMO NOTES - CENTRAL MECHANICAL ROOM

- P = POWER
- RE = Remove and turn over to Owner.
- D & T = DATA & TELEPHONE
- E.T.R. = Existing to Remain
- 1. Provide new power and signal wireway as shown. Supply all 90° angles necessary for a complete and working wireway. Extend power and signal wires as necessary for a working wireway. No splices allowed in wireway. Remove existing power wireway back to main wireway. Existing circuits that remain active to be feed from main wireway.
- 2. Not used.
- 3. Relocate existing power and signal wireway (management)ing power and signal wireways as shown. Provide new power and signal wires as necessary for a working wireway. No splices allowed in wireway. E.C. to relocate phone, data outlets as needed. Coordinate with building management as to the new locations.
- 7. Disconnect power and cap. Owner to remove waste.

GENERAL NOTES  
 1. REFER TO DRAWING 903 FOR ALL ELECTRICAL WORK SHOWN ON THESE DRAWINGS  
 2. E.C. TO REVIEW SPECIFICATIONS SECTION 16.04.1 (DATA STRUCK) & NEW WIRING WITH NEW NETWORK INTERFERS WITH LEFT PARTIES

1 FIFTH FLOOR PLAN  
 9.03 / 1/8" = 1'-0"



PROJECT NORTH

903  
 Potter Lawson Architects

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**HVAC Improvements, Phase III**  
 One West Wilson Street  
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 DIVISION PROJECT NO. 93511

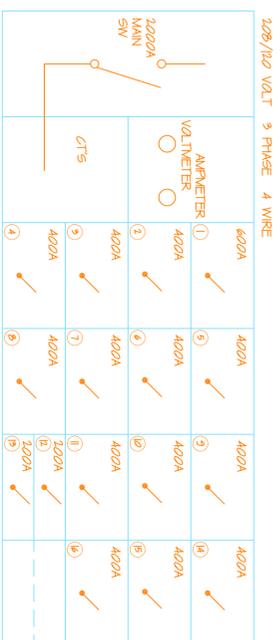
Date	Issuance/Revisions	Symbols	Drawn by
9/14/95	RECORD REVISIONS		WHB
2/24/97	RECORD DRAWINGS		B.L.C.

Checked by: B.L.C.  
 Date: 9/14/95  
 Scale: 1/8" = 1'-0"  
 Job No.: 93024.00

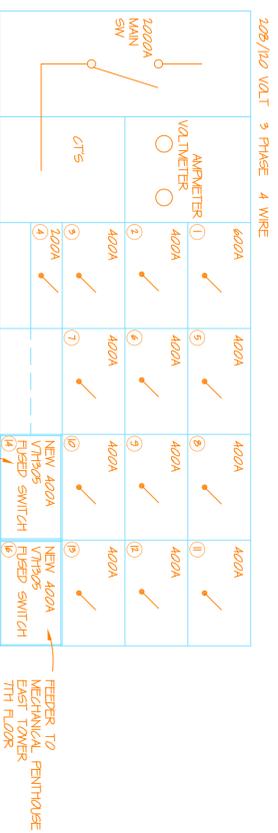
Drawing Title: Fifth Floor Electrical Remodeling Plan  
 Sheet No.: 903

NOTE: HAS REVIEWED 8/19/97 TO VERIFY THE ELECTRICAL WORK SHOWN ON THESE DRAWINGS. THE ELECTRICAL WORK SHOWN ON THESE DRAWINGS IS THE RESULT OF THE ELECTRICAL WORK SHOWN ON THESE DRAWINGS. THE ELECTRICAL WORK SHOWN ON THESE DRAWINGS IS THE RESULT OF THE ELECTRICAL WORK SHOWN ON THESE DRAWINGS.

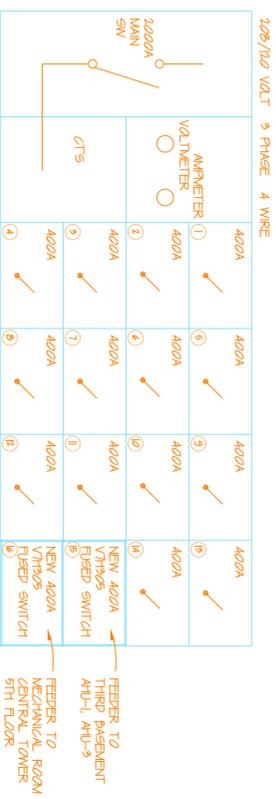




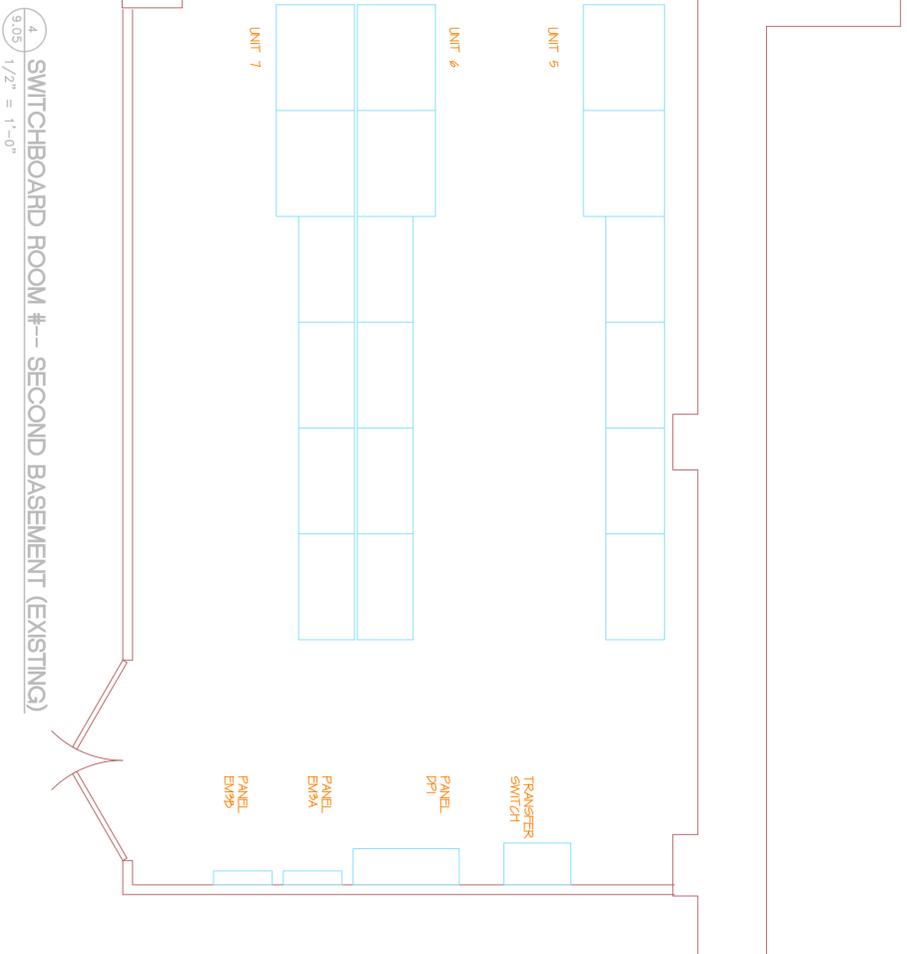
1 UNIT #7 SWITCHBOARD (EXISTING)  
 3/05 NO TO SCALE



2 UNIT #6 SWITCHBOARD (EXISTING)  
 3/05 NO TO SCALE



3 UNIT #5 SWITCHBOARD (EXISTING)  
 3/05 NO TO SCALE



4 SWITCHBOARD ROOM #-- SECOND BASEMENT (EXISTING)  
 3/05 1/2" = 1'-0"

**LIGHTING FIXTURE SCHEDULE**  
 TYPE A LIGHTING FIXTURE, MANUFACTURER WILLIAMS, CATALOG NO. 8222-E-B-120V, LAMPS F03329335, FIXTURES TO BE CONSIDERED EQUAL IF QUALITY IS SAME ARE: LITHONIA, METALUX  
 TYPE X LIGHTING FIXTURE, MANUFACTURER DUAL/LITE, CATALOG NO. MAXERT-EP-DC-12V, LAMPS W/FIXTURES, FIXTURES TO BE CONSIDERED EQUAL IF QUALITY IS SAME ARE: LITHONIA, METALUX

**GENERAL NOTE**  
 ELECTRICAL CONTRACTOR TO REVIEW ALL MECHANICAL PLANS. THERE IS ELECTRICAL WORK ON THESE PLANS FOR THE ELECTRICAL CONTRACTOR.

ELECTRICAL SYMBOL SCHEDULE	SYMBOL	DESCRIPTION
<b>LIGHTING FIXTURES</b>		
PANEL / CIRCUIT #	1, 2	INCANDESCENT: SURFACE/PENDANT
TYPE	A	FLUORESCENT: SURFACE,
SWITCHING	0	CEILING MOUNTED
	1	FLUORESCENT: SURFACE, WALL MOUNTED
	2	FLUORESCENT: RECESSED
	3	EXIT LIGHT, ARROWS, FACES & MOUNTING AS SHOWN ON DRAWINGS
	4	SWITCHES
	5	SINGLE POLE
	6	THREE WAY
	7	SWITCH AND DUPLEX RECEPTACLE IN TWO GANG BOX
	8	RECEPTACLES
	9	DUPLEX: RECESSED - W.P. INDICATES WATERPROOF
	10	DUPLEX: W/GROUND FAULT INTERRUPTION PROTECTION
	11	EQUIPMENT AND WIRING
	12	MOTOR CONNECTION - SEE EQUIP. SCHEDULE FOR TYPE, WIRING, ETC.
	13	JUNCTION BOX - CONCEALED IN UNFINISHED AREAS
	14	SAFETY DISCONNECT SWITCH WITH COVER INTERLOCK - FIELD INDICATES WHEN OPENED (FIELD UNLESS INDICATED BY "F" - FUSED)
	15	ELECTRICAL POWER PANEL
	16	SPECIAL SYSTEMS
	17	FIRE ALARM SYSTEMS
	18	FIRE ALARM BREAK GLASS STATION
	19	FIRE ALARM HORN WITH VISUAL STROBE LIGHT
	20	SL INDICATES STROBE LIGHT ONLY
	21	FIRE ALARM SMOKE DETECTOR-CLO. MTD.
	22	FIRE ALARM SMOKE DETECTOR - DUCT MTD.
	23	END OF LINE RESISTOR
	24	TELEPHONE AND COMMUNICATION SYSTEMS
	25	PUBLIC TELEPHONE
	26	TELEPHONE OUTLET IN WALL

**NOTE:**  
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**HVAC Improvements, Phase III**  
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 Madison, Wisconsin  
 DIVISION PROJECT NO. 935111

Date	Issuance/Revisions	Symbol	Drawn by
9/14/95	REISSUE		WMB
2/24/97	RECORD DRAWINGS		B.C.

**Electrical Switchboard Layouts & Symbols**  
 9.05  
 Potter Lawson Architects