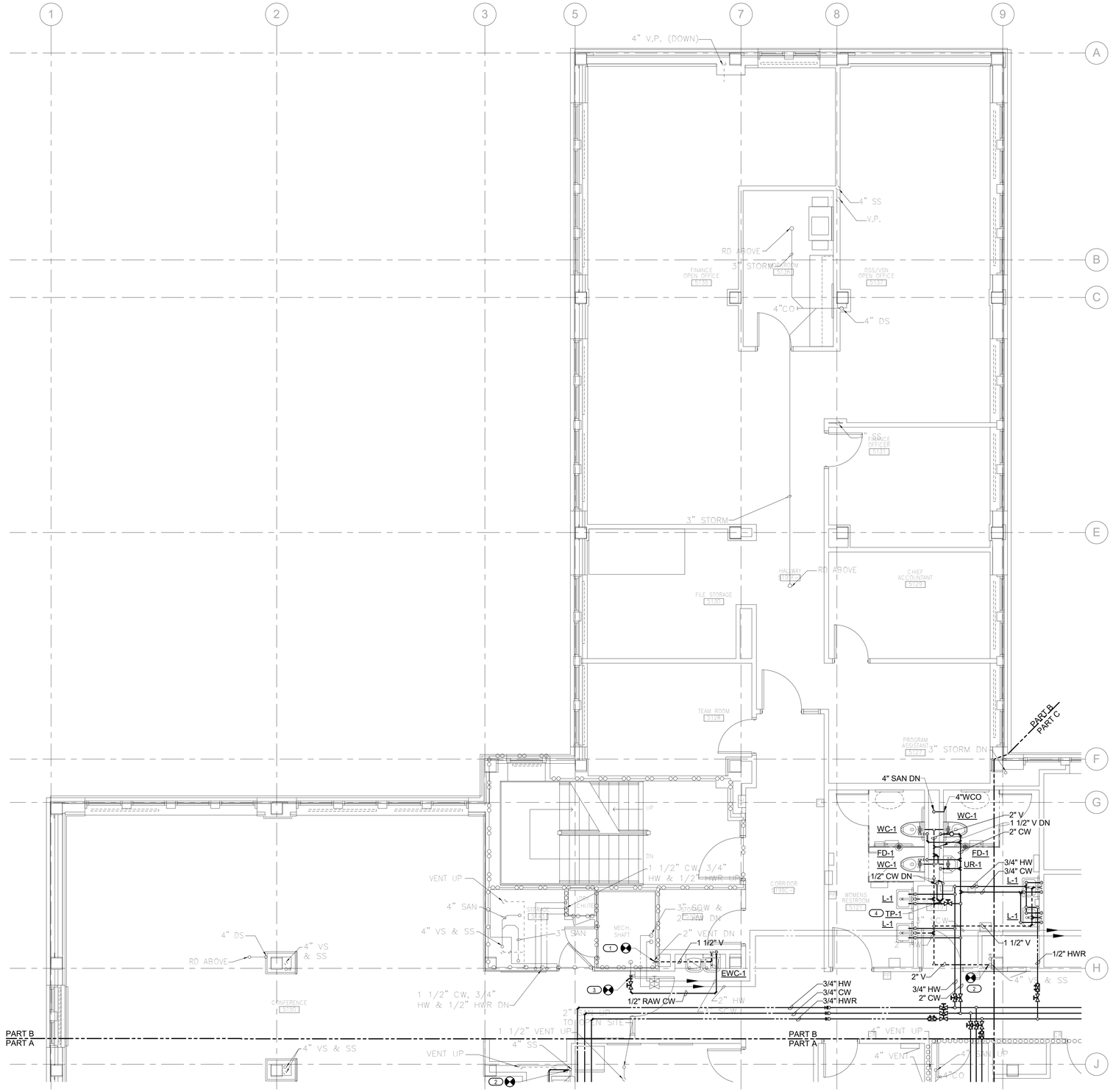
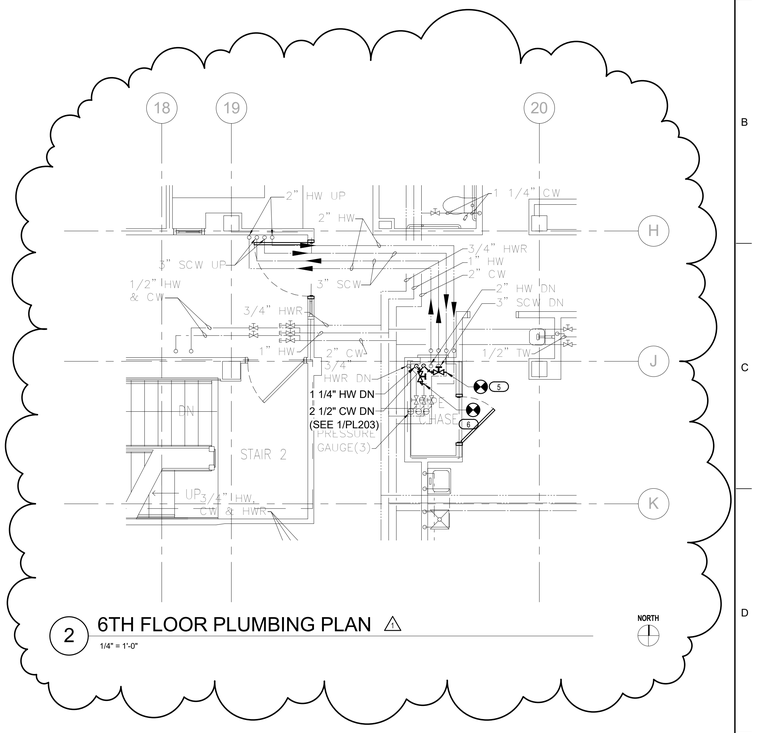
KEYED NOTES

1. CONNECT NEW 1 1/2" VENT TO EXISTING VENT.
2. CONNECT NEW 2" VENT TO EXISTING VENT.
3. CONNECT NEW 1/2" RAW COLD WATER TO EXISTING RAW COLD WATER PIPING.
4. TRAP PRIMER SHALL BE INSTALLED ABOVE CEILING PER MANUFACTURER'S INSTRUCTIONS.
5. CONNECT NEW 2 1/2" CW TO EXISTING CW MAIN IN CHASE ON 6TH FLOOR. PROVIDE SHUTOFF VALVE.
6. CONNECT NEW 1 1/4" HW TO EXISTING HW MAIN IN CHASE ON 6TH FLOOR. PROVIDE SHUTOFF VALVE.



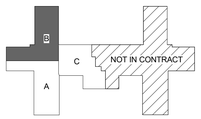
1 5TH FLOOR PLUMBING PLAN - PART B

1/4" = 1'-0"



2 6TH FLOOR PLUMBING PLAN

1/4" = 1'-0"



KEY PLAN

NOT TO SCALE

Addendum #1	12/08/2017
Revisions:	Date

CONSULTANTS:

MEP ASSOCIATES, LLC

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MEP PROJECT NO.: N08.13.04

ARCHITECT/ENGINEERS:

NORTHERN DESIGN WORKS

420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1210

Drawing Title: 5TH FLOOR PLUMBING PLAN – PART B - WEST	Project Title: Renovate Five West		Project Number: 585-12-113
			Building Number: 1
Approved: Project Director	Location: IRON MOUNTAIN, MICHIGAN		Drawing Number: PL202
	Date: 06/12/2017	Checked: TCC	Drawn: NCF
			Dwg. 58 of 111

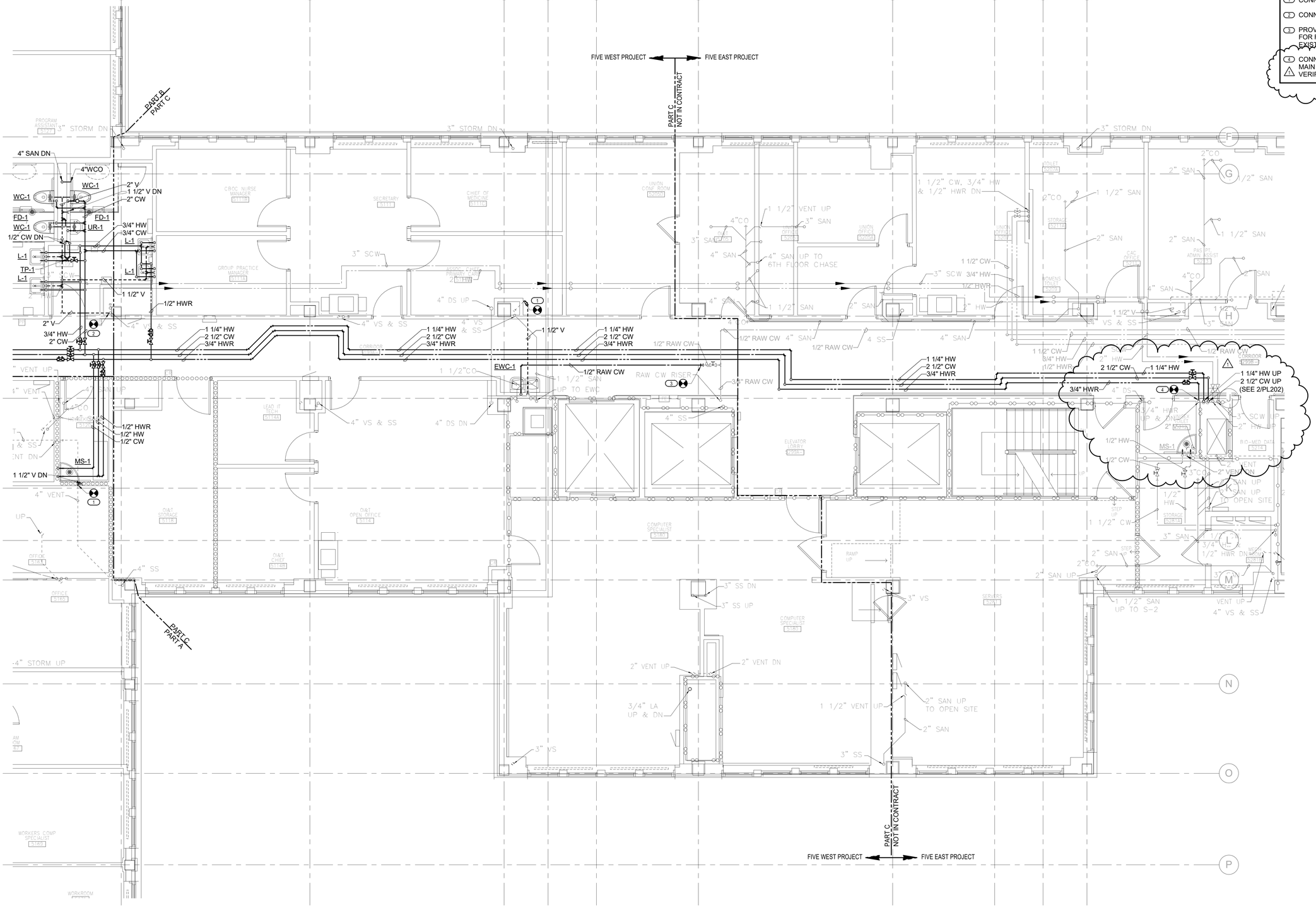
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

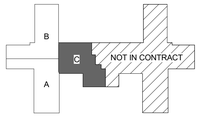
KEYED NOTES

1. CONNECT NEW 1 1/2" VENT TO EXISTING VENT.
2. CONNECT NEW 2" VENT TO EXISTING VENT.
3. PROVIDE 1/2" RAW CW CAPPED AND VALVED FOR FUTURE. VERIFY SIZE AND LOCATION OF EXISTING VALVE.
4. CONNECT NEW 3/4" HWR TO EXISTING HWR MAIN IN CHASE ABOVE CIRCULATION PUMP. VERIFY SIZE & LOCATION OF EXISTING MAIN.



1 5TH FLOOR PLUMBING PLAN - PART C

1/4" = 1'-0"



KEY PLAN

NOT TO SCALE

NORTH

Revisions:	Date
Addendum #1	12/08/2017

CONSULTANTS:

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MEP PROJECT NO.: N08.13.04

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NDW PROJECT NUMBER: 1210

Drawing Title	5TH FLOOR PLUMBING PLAN – PART C - WEST
Approved: Project Director	
Project Title	Renovate Five West
Location	IRON MOUNTAIN, MICHIGAN
Date	06/12/2017
Checked	TCC
Drawn	NCF
Project Number	585-12-113
Building Number	1
Drawing Number	PL203
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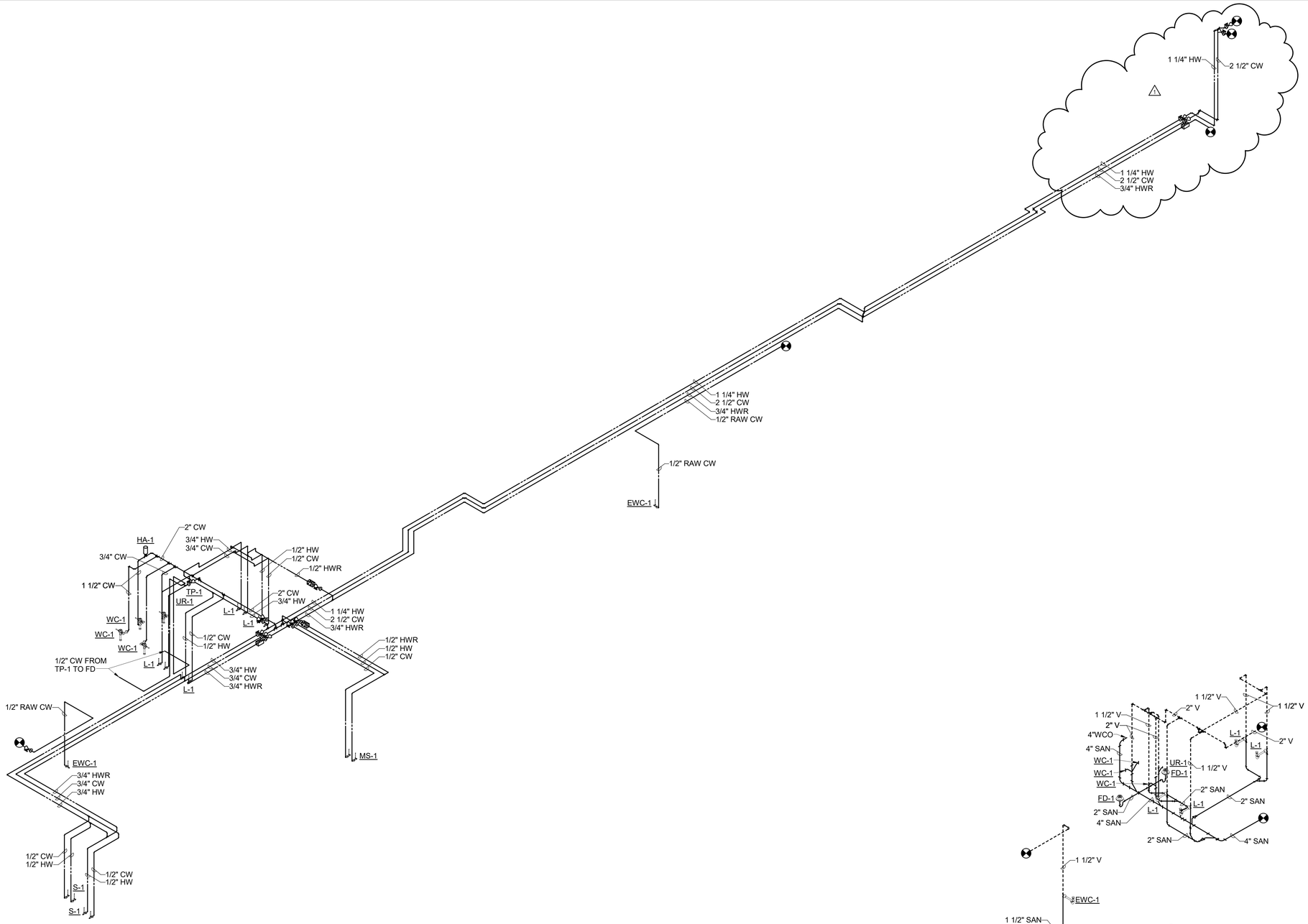
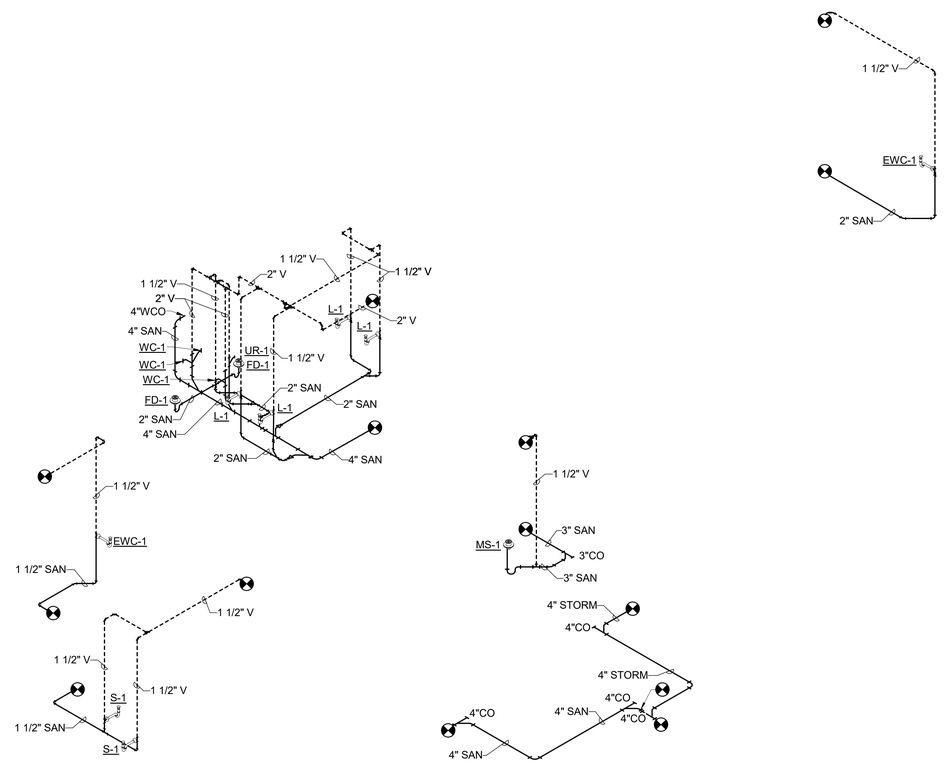


2 DOMESTIC WATER PLUMBING ISOMETRIC



1 SANITARY WASTE & VENT PLUMBING ISOMETRIC

Addendum #1	12/08/2017
Revisions:	Date

CONSULTANTS:

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MEP PROJECT NO.: N08.13.04

ARCHITECT/ENGINEERS:

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PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1210

Drawing Title: PLUMBING ISOMETRICS - WEST	Project Title: Renovate Five West		Project Number: 585-12-113
			Building Number: 1
Approved: Project Director	Location: IRON MOUNTAIN, MICHIGAN		Drawing Number: PL401
	Date: 06/12/2017	Checked: TCC	Drawn: NCF
			Dwg. 60 of 111

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Department of Veterans Affairs

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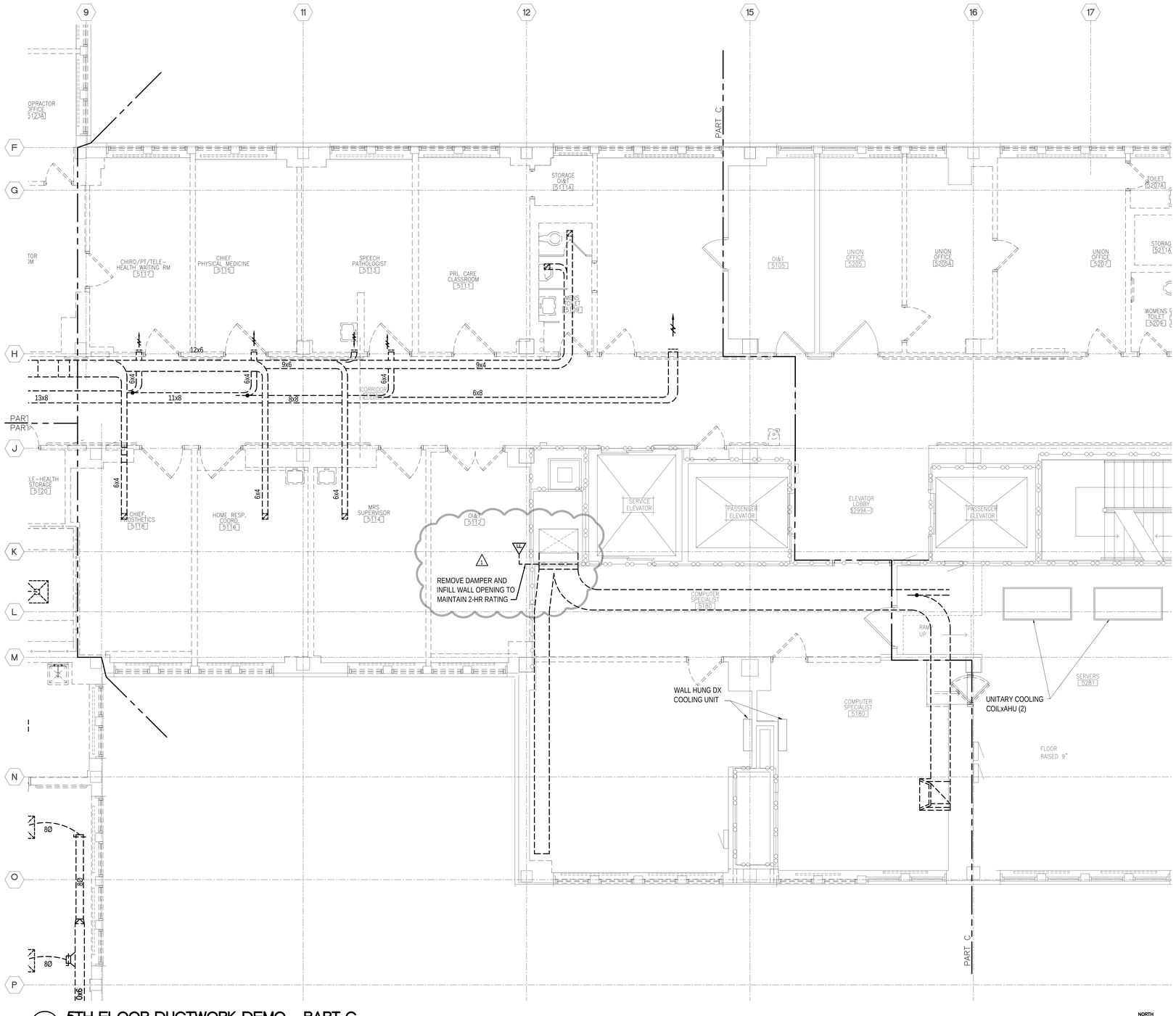


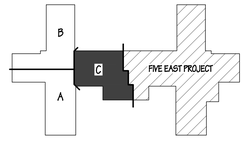
1 5TH FLOOR DUCTWORK DEMO - PART C

1/4" = 1'-0"

NORTH

GENERAL NOTES

1. REMOVE ALL EXISTING DUCTWORK, VAV'S, GRILLES, DIFFUSERS AND ASSOCIATED DEVICES AS SHOWN DASHED.
2. ALL FIRE DAMPERS & SMOKE DAMPERS HAVE AN CONTROL/INVENTORY NUMBER. FILL OUT A TURN-IN SHEET TO OWNERS ENGINEERING FOR EACH DAMPER TAKEN OUT OF SERVICE.
3. COORDINATE DUCT SMOKE DETECTOR REMOVAL WITH ELECTRICAL CONTRACTOR, PRIOR TO REMOVAL.
4. ALL DUCTWORK MAY NOT BE SHOWN ON PLAN. THERE MAY BE EXISTING DUCTWORK ABANDONED IN PLACE. DEMO ALL DUCTWORK SHOWN AS DOTTED ON PLANS AND ALL EXISTING DUCTWORK THAT MAY BE ABANDONED IN PLACE.



KEY PLAN

NOT TO SCALE

NORTH

Revisions:	Date
Addendum #1	12/08/2017
100% Construction	06/12/2017

CONSULTANTS:

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MEP PROJECT NO.: N08.13.04

ARCHITECT/ENGINEERS:

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PHONE: 906-475-6616
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NDW PROJECT NUMBER: 1210

Drawing Title: MECHANICAL DUCTWORK DEMO PLAN - PART C

Approved: Project Director

Project Title: Renovate Five West

Location: IRON MOUNTAIN, MICHIGAN

Date: 06/12/2017 | Checked: JRM | Drawn: AMD

Project Number: 585-12-113

Building Number: 1

Drawing Number: MD104

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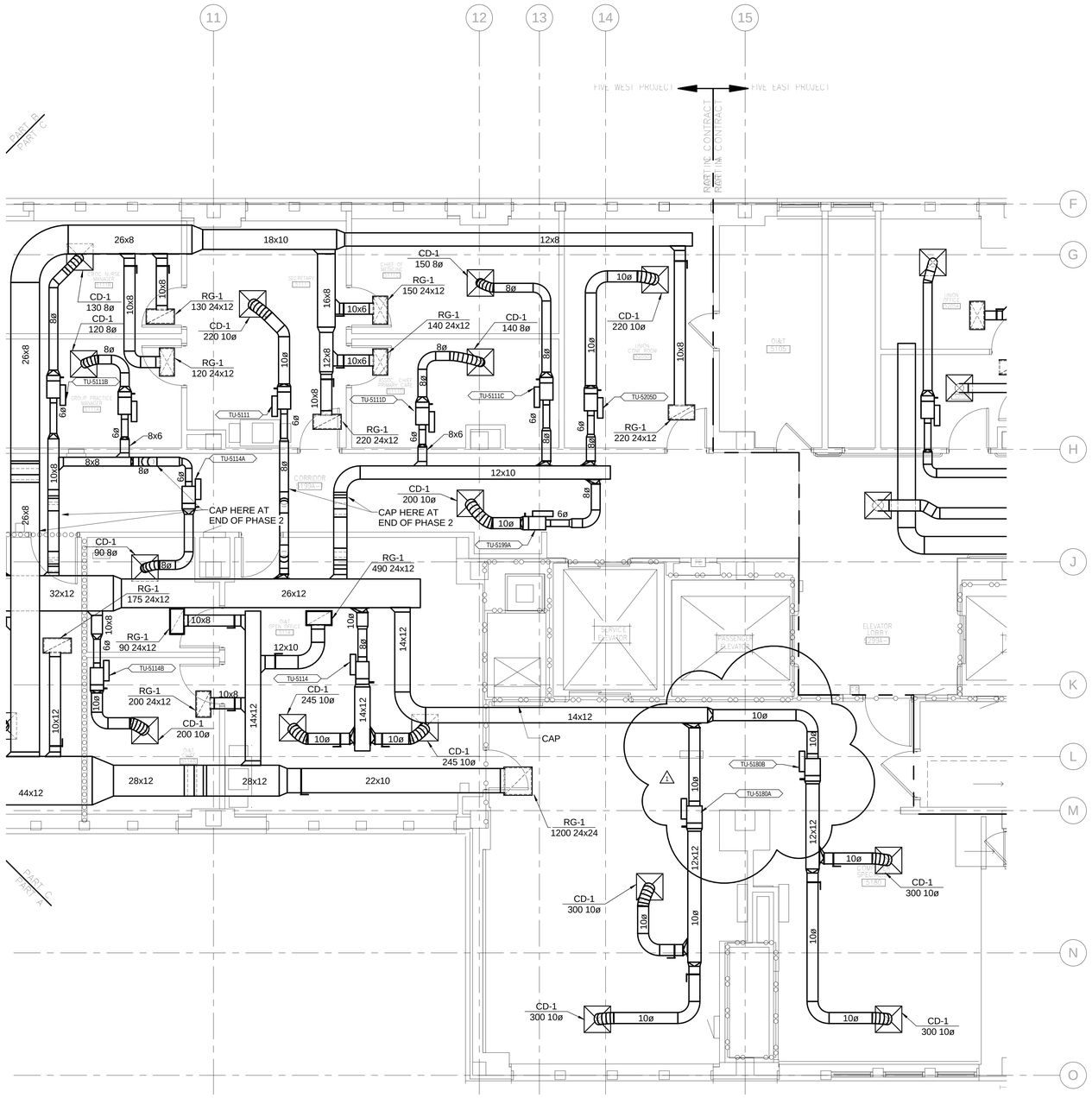
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

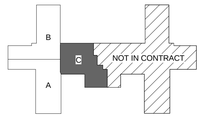


1 5TH FLOOR MECHANICAL DUCTWORK PLAN - PART C

1/4" = 1'-0"

GENERAL NOTES

1. SEE ARCHITECTURAL SHEET A002 LIFE SAFETY PLAN FOR FIRE/SMOKE RATINGS. ALL DUCTS THROUGH RATED WALLS SHALL BE SEALED WITH AN APPOVED PENETRATION ASSEMBLY. SEE SPECIFACTION FOR MORE INFORMATION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESSURE TESTING OF DUCTS SERVING THE REMODELED AREA FROM POINTS OF CONNECTION AT EXISTING MAINS AND RISERS THROUGH TO GRILLES, DIFFUSERS AND REGISTERS.
3. TEST & BALANCE CONTRACTOR IS REQUIRED TO BALANCE SUPPLY, RETURN AND EXHAUST ON EACH PHASE PRIOR TO OCCUPANCY. SPOT CHECK THE PREVIOUS PHASE(S) FOR MAINTAINED VENTILATION RATES.
4. PROVIDE ACCESS DOORS AT ALL FIRE DAMPER AND FIRE/SMOKE DAMPER LOCATIONS AND EVERY 20 FT OF SUPPLY/RETURN MAINS.
5. SEE ARCHITECUTRAL PLANS FOR DETAILED PHASING PLANS.



KEY PLAN

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NORTH

Addendum #1	12/08/2017
Revisions:	Date

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MEP PROJECT NO.: N08.13.04

ARCHITECT/ENGINEERS:

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PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1210

Drawing Title: 5TH FLOOR MECHANICAL DUCTWORK - PART C

Approved: Project Director

Project Title: Renovate Five West

Location: IRON MOUNTAIN, MICHIGAN

Date: 06/12/2017 | Checked: JRM | Drawn: AMD

Project Number: 585-12-113

Building Number: 1

Drawing Number: MH104

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Office of Construction and Facilities Management

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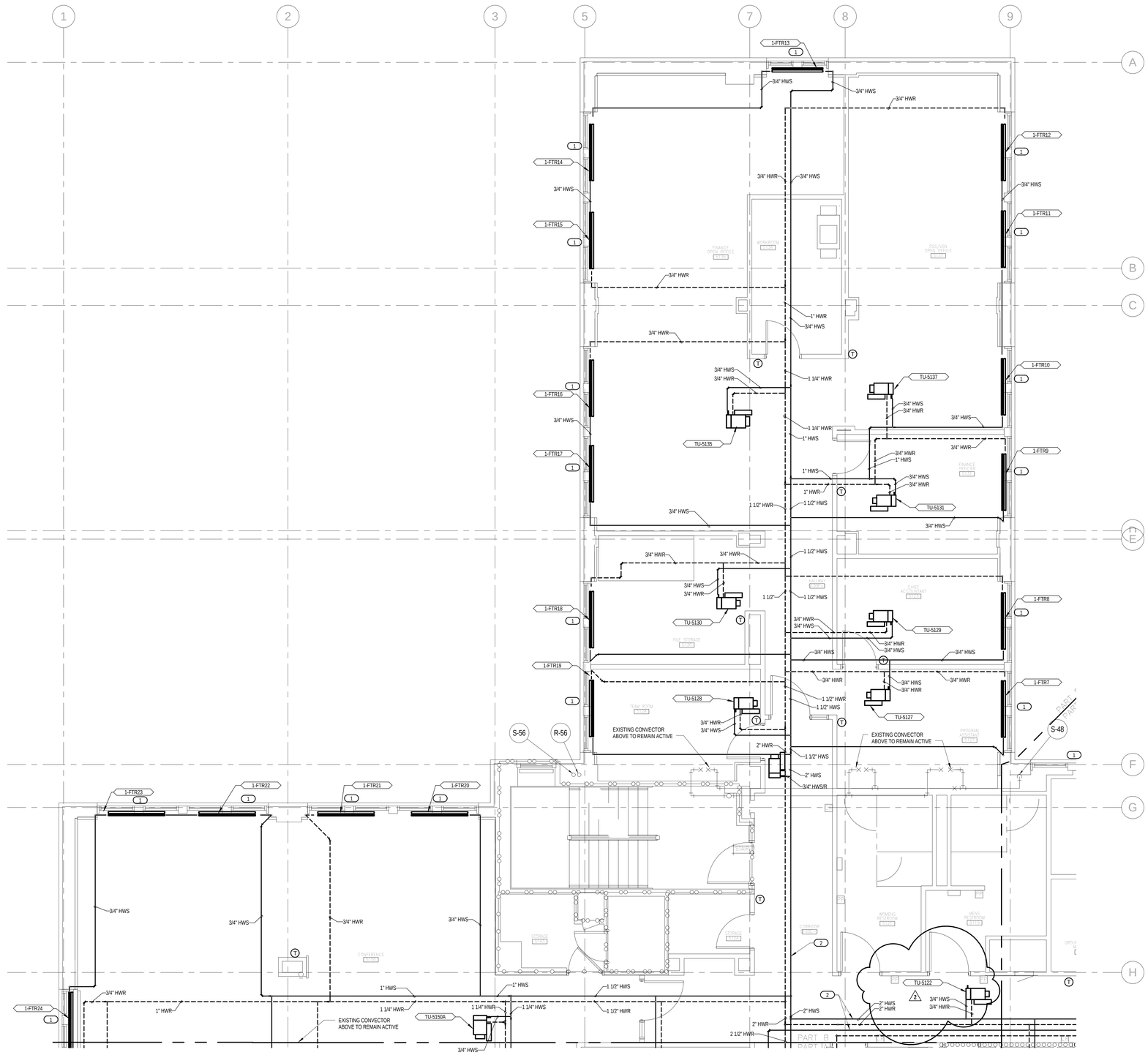


1 5TH FLOOR MECHANICAL PIPING PLAN - PART B

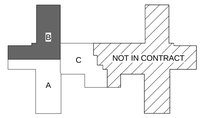
1/4" = 1'-0"

GENERAL NOTES

1. SEE ARCHITECTURAL SHEET A002 LIFE SAFETY PLAN FOR FIRE/SMOKE RATINGS. ALL PIPES THROUGH RATED WALLS SHALL BE SEALED WITH AN APPOVED PENETRATION ASSEMBLY. SEE SPECIFACTION FOR MORE INFORMATION.
2. A FULL TEST AND BALANCE OF THE WATERSIDE SYSTEM SHALL BE PERFORMED AFTER EACH PHASE OF WORK AND THEN A FINAL FULL (NOT PARTIAL_ TEST AND BALANCE OF ALL FIFTH FLOOR SERVED BY AHU-11 AND ERU-2 SHALL OCCUR. THIS SHALL INCLUDE A FINAL TEST AND BALANCE OF EACH DUCT TAKEOFF OFF THE RISERS FOR AHU-11 AND ERV-2 ON ALL FLOORS. THE INTENT IS TO MAKE SURE ALL EXISTING AND NEW SPACE SERVED BY THESES SPACE REMAIN AT CURRENT/DESIGN CONDITIONS WHILE WORK IS BE PERFORMED.
3. SEE DETAIL SHEET FOR TERMINAL UNIT PIPING DETAIL.
4. PROVIDE BALANCING VALVE ON RETURN FOR EACH HOT WATER CONVECTOR.

KEYED NOTES (NOTES PERTAIN TO MP102 - MP104)

1. NEW HOT WATER CONVECTOR, ENCLOSURE AND COVER. PROVIDE RECESSED FRAMING AND RETROFIT EXISTING OPENING AS REQUIRED FOR INSTALLATION.
2. PROVIDE CAP AT PHASE BOUNDARY.
3. PROVIDE HOT WATER SUPPLY TAKEOFF IN CEILING AND CAP. THIS WILL SERVE FUTURE HOT WATER FINNED TUBE RADIATION ON 6TH FLOOR.
4. PROVIDE HOT WATER RETURN TAKEOFF AND ASSOCIATED CONTROL VALVE. THIS WILL SERVE FUTURE HOT WATER FINNED TUBE RADIATION ON 6TH FLOOR.
5. 4" HWS/HWR LINES SERVE EXISTING HEAT RECOVERY CHILLER. INSTALL NEW 4" HWS/HWR AS CLOSE TO STRUCTURE ABOVE AND IN JOIST CAVITY WHERE AVAILABLE. COORDINATE INSTALLATION WITH INSTALLATION OF NEW DUCTWORK.



KEY PLAN

NOT TO SCALE

NORTH

Addendum #1	12/08/2017
Revisions:	Date

CONSULTANTS:

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MEP PROJECT NO.: N08.13.04

ARCHITECT/ENGINEERS:

NORTHERN DESIGN WORKS

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NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1210

Drawing Title: 5TH FLOOR MECHANICAL PIPING PLAN - PART B

Approved: Project Director

Project Title: Renovate Five West

Location: IRON MOUNTAIN, MICHIGAN

Date: 06/12/2017 | Checked: JRM | Drawn: AMD

Project Number: 585-12-113

Building Number: 1

Drawing Number: MP103

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Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

HVAC DESIGN DATA

DESIGN CONDITIONS	SUMMER TEMP °F	SUMMER TEMP [°C]	SUMMER WET BULB TEMP °F	SUMMER WET BULB TEMP [°C]	SUMMER % HUMIDITY	WINTER TEMP °F	WINTER TEMP [°C]	WINTER DEWPOINT TEMP °F	WINTER DEWPOINT TEMP [°C]	WINTER % HUMIDITY	LOWEST AVERAGE ANNUAL DEWPOINT °F	LOWEST AVERAGE ANNUAL DEWPOINT [°C]
OUTDOOR DESIGN CONDITIONS	88	[31]	72	[22]	46	-20	[-29]	0	[-18]	NA	-18	[-28]
INDOOR AREA DESIGN CONDITIONS												
TOILET	N/A				N/A	68	[20]			N/A		
STAFF BREAKROOM	75	[24]			20-60	70	[21]			20-60		
HOUSEKEEPING	N/A				N/A	N/A				N/A		
CORRIDORS	75	[24]			20-60	70	[21]			20-60		
COPY/PRINTING	75	[24]			20-60	70	[21]			20-60		
OFFICES	75	[24]			20-60	70	[21]			20-60		
ELECTRICAL	86	[30]			N/A	40	[4]			N/A		
STORAGE	N/A				N/A	N/A				N/A		

AIR DEVICE SCHEDULE (SUPPLY)

MARK	TYPE	MOUNTING	PANEL/FRAME SIZE IN x IN	PANEL/FRAME SIZE [mm x mm]	DAMPER	FINISH	REMARKS
CD-1	LOUVERED FACE	LAY-IN CEILING	24 x 24	[600 x 600]	NONE	WHITE	1
SG-1	GRILLE	SIDE WALL	SEE PLAN	SEE PLAN	NONE	WHITE	-

NOTES

AIR DEVICE SCHEDULE (RETURN/EXHAUST)

MARK	TYPE	MOUNTING	DAMPER	FINISH	REMARKS
RG-1	EGG CRATE	CEILING	NONE	WHITE	LAY-IN
RG-2	VANES	SIDEWALL	NONE	WHITE	SURFAACE MOUNT
EG-1	EGG CRATE	CEILING	NONE	WHITE	LAY-IN
TG-1	EGG CRATE	CEILING	NONE	WHITE	LAY-IN

NOTE

PROVIDE SQUARE TO ROUND ADAPTER.

AIR TERMINAL UNIT SIZING SCHEDULE

SIZE	MIN ALLOWABLE AIR FLOW CFM	MIN ALLOWABLE AIR FLOW [L/s]	MAX ALLOWABLE AIR FLOW CFM	MAX ALLOWABLE AIR FLOW [L/s]	DUCT INLET SIZE IN	DUCT INLET SIZE [mm]	MAX APD IN WG	MAX APD [Pa]	MAXIMUM SOUND POWER LEVEL (Re: 10^{-12} WATTS) FOR BOX DISCHARGE AT MAXIMUM INLET DUCT STATIC OCTAVE BANDS 2	3	4	5	6	7	REMARKS
A	60	[28]	170	[80]	4	[100]	0.4	[100]	69	65	58	52	51	47	----
B	60	[28]	260	[120]	5	[130]	0.4	[100]	69	63	59	52	51	47	----
C	60	[28]	380	[180]	6	[150]	0.4	[100]	69	67	61	55	52	49	----
D	160	[76]	490	[230]	7	[180]	0.4	[100]	70	68	63	57	53	49	----
E	230	[110]	680	[320]	8	[200]	0.4	[100]	71	68	59	53	51	47	----
F	270	[130]	790	[370]	9	[230]	0.4	[100]	71	69	60	54	51	47	----
G	350	[170]	1050	[500]	10	[250]	0.4	[100]	74	68	61	57	54	52	----
H	500	[240]	1500	[710]	12	[300]	0.4	[100]	73	69	64	59	57	53	----
I	750	[350]	2250	[1100]	14	[350]	0.4	[100]	73	68	65	61	61	59	----
J	1000	[470]	3000	[1400]	16	[400]	0.4	[100]	73	68	66	60	58	55	----

NOTES

1. INLET STATIC BASED ON ARI 885-98.
2. THIS SCHEDULE IS USED WITH THE TERMINAL UNIT SCHEDULE.
3. CONTROL SEQUENCE SHALL BE AS INDICATED ON THE AIR TERMINAL UNIT SCHEDULE.
4. PROVIDE SOUND ATTENUATION AFTER-SECTION AS REQUIRED TO MEET ROOM NC LEVEL.

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

MARK	LOCATION	AREA AND/OR ROOMS SERVED	SYSTEM AIR HANDLING	SIZE	AIR FLOW MAX CFM	AIR FLOW MAX [L/s]	AIR FLOW MIN CFM	AIR FLOW MIN [L/s]	ADDITIONAL SOUND ATTUNATION REQUIRED	CONTROL TYPE	CONTROL SEQUENCE	REHEAT HW	REHEAT ELEC	REHEAT NONE	PERIMETER SUPPLEMENTAL HEAT LINK	REMARKS
TU-5205D	West Wing	5205	AHU 11	C	220	[100]	220	[100]	NONE	CV		X			YES	
TU-5111	West Wing	5111	AHU 11	C	220	[100]	220	[100]	NONE	CV		X			YES	
TU-5111A	West Wing	5111A	AHU 11	C	120	[57]	120	[57]	NONE	CV		X			NONE	
TU-5111B	West Wing	5111B	AHU 11	C	130	[61]	130	[61]	NONE	CV		X			YES	
TU-5111C	West Wing	5111C	AHU 11	C	150	[71]	150	[71]	NONE	CV		X			YES	
TU-5111D	West Wing	5111D	AHU 11	C	140	[66]	140	[66]	NONE	CV		X			NONE	
TU-5127	West Wing	5127	AHU 11	C	185	[87]	185	[87]	NONE	CV		X			YES	
TU-5128	West Wing	5128	AHU 11	C	195	[92]	165	[78]	NONE	VAV		X			YES	
TU-5129	West Wing	5129	AHU 11	C	185	[87]	160	[76]	NONE	VAV		X			YES	
TU-5130	West Wing	5130	AHU 11	C	180	[85]	180	[85]	NONE	CV		X			YES	
TU-5131	West Wing	5131	AHU 11	C	190	[90]	170	[80]	NONE	VAV		X			YES	
TU-5135	West Wing	5135	AHU 11	G	975	[460]	750	[350]	NONE	VAV		X			YES	
TU-5137	West Wing	5137	AHU 11	E	600	[280]	475	[220]	NONE	VAV		X			YES	
TU-5150A	West Wing	5150	AHU 11	G	850	[400]	850	[400]	NONE	CV		X			YES	
TU-5150B	West Wing	5150	AHU 11	G	850	[400]	850	[400]	NONE	CV		X			YES	
TU-5160	West Wing	5160	AHU 11	C	220	[100]	220	[100]	NONE	CV		X			NONE	
TU-5162	West Wing	5162	AHU 11	C	150	[71]	150	[71]	NONE	CV		X			YES	
TU-5163	West Wing	5163	AHU 11	C	150	[71]	150	[71]	NONE	CV		X			NONE	
TU-5164	West Wing	5164	AHU 11	C	195	[92]	150	[71]	NONE	VAV		X			YES	
TU-5165	West Wing	5165	AHU 11	C	180	[85]	180	[85]	NONE	CV		X			YES	
TU-5167	West Wing	5167	AHU 11	C	180	[85]	180	[85]	NONE	CV		X			YES	
TU-5169	West Wing	5169	AHU 11	C	185	[87]	185	[87]	NONE	CV		X			YES	
TU-5172	West Wing	5172	AHU 11	E	650	[310]	650	[310]	NONE	CV		X			YES	
TU-5173	West Wing	5173	AHU 11	C	220	[100]	160	[76]	NONE	VAV		X			YES	
TU-5175	West Wing	5175	AHU 11	C	185	[87]	185	[87]	NONE	CV		X			YES	
TU-5176	West Wing	5176	AHU 11	C	205	[97]	205	[97]	NONE	CV		X			YES	
TU-5177	West Wing	5177	AHU 11	C	205	[97]	205	[97]	NONE	CV		X			YES	
TU-5118	West Wing	5118	AHU 11	C	175	[83]	175	[83]	NONE	CV		X			YES	
TU-5114	West Wing	5114	AHU 11	E	490	[230]	490	[230]	NONE	CV		X			YES	
TU-5114A	West Wing	5114A	AHU 11	C	90	[42]	90	[42]	NONE	CV		X			NONE	
TU-5114B	West Wing	5114B	AHU 11	C	200	[94]	140	[66]	NONE	VAV		X			YES	
TU-5180A	West Wing	5180	AHU 11	G	600	[280]	500	[240]	NONE	VAV		X			YES	
TU-5180B	West Wing	5180	AHU 11	G	600	[280]	500	[240]	NONE	VAV		X			YES	
TU-5199A	West Wing	5199A	AHU 11	C	200	[94]	200	[94]	NONE	CV		X			NONE	
TU-5199B	West Wing	5199B	AHU 11	C	270	[130]	270	[130]	NONE	CV		X			NONE	
TU-5199C	West Wing	5199C	AHU 11	E	420	[200]	420	[200]	NONE	CV		X			NONE	
TU-5122	West Wing	5122	AHU 11	C	100	[47]	0	[ ]	NONE	VAV				X	NONE	

DUCT PRESSURE CLASS, MATERIAL, & LEAKAGE

SYSTEM	SERVICE	DUCT CONSTRUCTION PRESSURE CLASS (IN W.G.)	DUCT CONSTRUCTION MATERIALS OF CONSTRUCTION	DUCT CONSTRUCTION SMACNA SEAL CLASS	LEAKAGE TESTING PERCENT OF DUCT TO BE TESTED	LEAKAGE TESTING TEST PRESSURE (IN W.G.)	LEAKAGE TESTING ALLOWABLE LEAKAGE (% OF TAKE-OFF)	REMARKS
AHU-11	SUPPLY AIR FROM AIR HANDLING UNIT TO SUPPLY AIR TERMINAL	3	GALVANIZED	A	100	3	2	–
	SUPPLY AIR FROM SUPPLY AIR TERMINALS TO AIR OUTLETS	2	GALVANIZED	A	100	2	2	–
	RETURN AIR FROM AIR INLET TO AIR HANDLING UNIT	-2	GALVANIZED	A	100	2	2	–
	OUTDOOR AIR FROM LOUVER TO AIR HANDLING UNIT	-2	GALVANIZED	A	100	2	2	–
ERV-3	GENERAL EXHAUST AIR ALL INCLUSIVE	-2	GALVANIZED/ ALUM	A	100	2	2	–

Revisions:	Date
Addendum #1	12/08/2017
100% Construction	06/12/2017

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NDW PROJECT NUMBER: 1210

Drawing Title: MECHANICAL EQUIPMENT SCHEDULES

Approved: Project Director

Project Title: Renovate Five West

Location: IRON MOUNTAIN, MICHIGAN

Date: 06/12/2017 | Checked: JRM | Drawn: AMD

Project Number: 585-12-113

Building Number: 1

Drawing Number: M601

Dwg: 84 of 111

Office of Construction and Facilities Management

Department of Veterans Affairs

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