HOOD INFORMATION

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM						SUPPLY PLENUM						HOOD CONSTRUCTION	HOOD CONFIG.	
					TOTAL EXH. CFM	RISER(S)					TOTAL SUP. CFM	RISER(S)						END TO END	ROW
						WIDTH	LENG.	DIA.	CFM	S.P.		WIDTH	LENG.	DIA.	CFM	S.P.			
1	First Floor	5424 ND-2-PSP-F	7' 0.00"	450 Deg.	1400	10"	12"		1400	-0.389"	1120						430 SS Where Exposed	ALONE	ALONE

HOOD INFORMATION

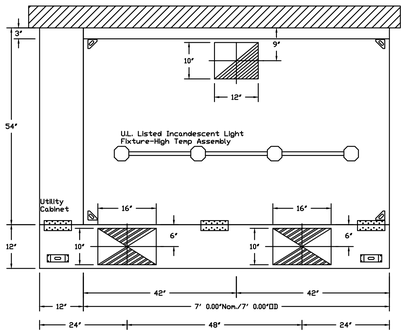
HOOD NO.	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)						FIRE SYSTEM PIPING	HOOD HANGING WGHT
	TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	WIRE GUARD	LOCATION	FIRE SYSTEM		ELECTRICAL	SWITCHES				
									TYPE	SIZE	MODEL #	QUANTITY	LOCATION			
1	SS Baffle with Handles	4	16"	16"	4	Incandescent Light Fixt	NO	Left	Ansul R102	3.0	311110FP	1 Light 1 Fan	Outside		YES	426 LBS
		1	16"	20"												

HOOD OPTIONS

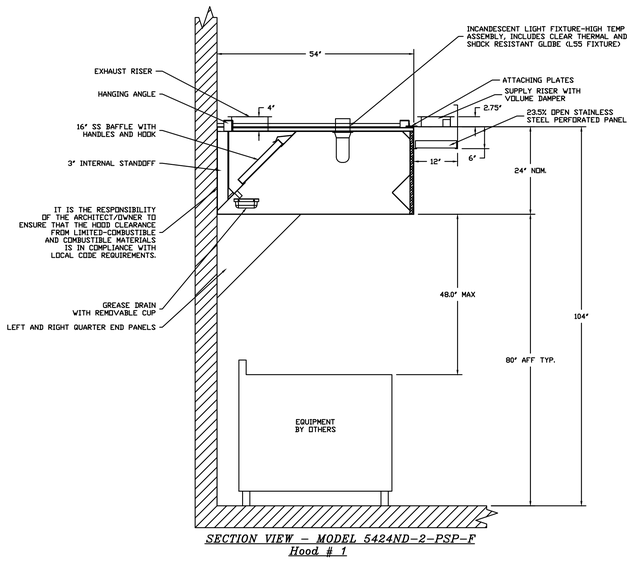
HOOD NO.	OPTION
1	FIELD WRAPPER 6.00" High Front, Left, Right
	BACKSPLASH 80.00" High X 96.00" Long 430 SS
	RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS
	LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS

PERFORATED SUPPLY PLENUM(S)

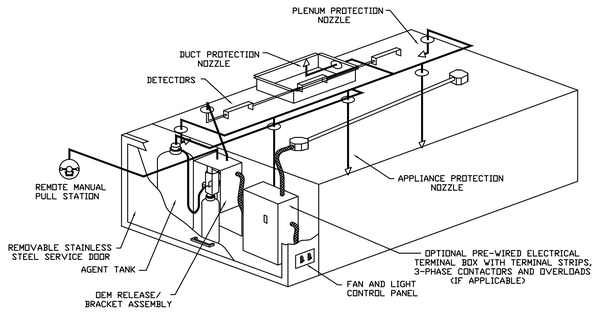
HOOD NO.	PDS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
						WIDTH	LENG.	DIA.	CFM	S.P.
1	Front	96"	12"	6"	MUA	10"	16"		560	0.179"
					MUA	10"	16"		560	0.179"



PLAN VIEW - Hood #1
7' 0.00" LONG 5424ND-2-PSP-F



SECTION VIEW - MODEL 5424ND-2-PSP-F
Hood # 1



TYPICAL ANSUL R-102 SYSTEM LAYOUT

4

NOTES:

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2. INDICATED EQUIPMENT SELECTIONS REPRESENT THE BASIS OF DESIGN. APPROVED EQUAL SELECTIONS ARE ACCEPTABLE.

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3	03-26-15	DC COMMENTS	MC, TD, TM	VS, MW, EF
	01-22-15	FOR BID/PERMIT	MC, TD, TM	VS, MW, EF

PROJECT DRAWINGS — MECHANICAL

Drawing Title: MECHANICAL HOOD DETAILS

Drawing No.: M7-01

Job Title: DCFEMS Station 16

Project Address: 1018 13th Street Washington, DC 20005

Seal
Engineer Name:
Registration Number:
Expiration Date:
Architect
Date:

Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
Sheet	60 OF 100

EXHAUST FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	MODEL	TAG	CFM	S.P.	RPM	H.P.	ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)
1	RDUS-U2122CA	RDUS-U2122CA	EF-1	1400	3.000	2401	2.000	3	208	6.0	1591 FPM	186.10

HEATER/MUA FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	BLOWER	HOUSING	TAG	CFM	S.P.	RPM	H.P.	ø	VOLT	FLA	WEIGHT (LBS.)
2	A1-D.250-G10	G10	A1-D.250	MAU-1	1120	1.375	1349	1.500	3	208	4.7	677.10

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
2	87945	80909	70 deg F	7 in. w.c. - 14 in. w.c.	Natural

FAN OPTIONS

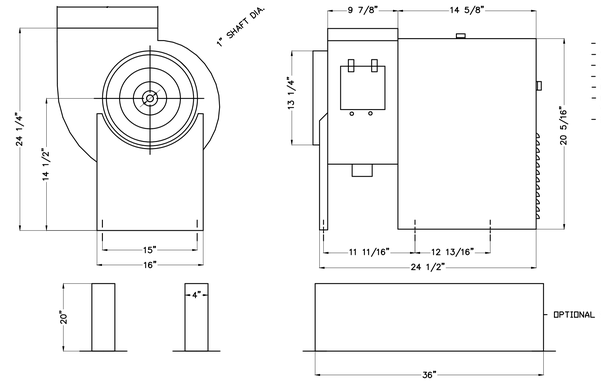
FAN UNIT NO.	OPTION (Qty. - Descr.)
1	1 - Exhaust Fan Grease Cup (Twin City Utility Set)
	1 - Utility Set - Spring Vibration Isolators - BI12 Thru BI18 / Equivalent Sized Utility Set - Indoor/Outdoor use.
2	1 - Inlet Pressure Gauge, 0-35"
	1 - AC Interlock Relay - 24VAC Coil
	1 - Low Fire Start
	1 - Manifold Pressure Gauge, -5 to 15" wc
	1 - DF 1 Indoor Hanging Option - Includes 2 HSA125 Hanging Spring Isolators per Uni-Strut
	1 - Motorized Backdraft Damper for A1-D Housing
	1 - Freezestat

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	38 LBS	Curb	4.000"W x 36.000"L x 20.000"H

VERIFY PITCH CURB
_____ : _____
Curb Pitch Required in order to manufacture the curb to specification.

FAN #1 RDUS-U2122CA - EXHAUST FAN (EF-1)



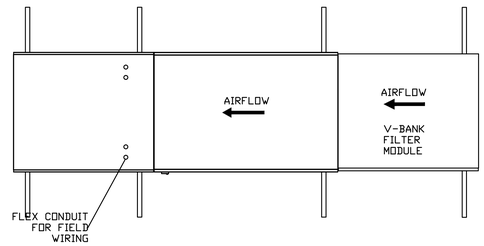
FEATURES:
- FULL AMCA CLASS 1 OPERATION
- VENTED MOTOR COVER FOR WEATHER PROTECTION
- UL762 LISTED FOR RESTAURANT DUTY
- UPBLAST DISCHARGE DIRECTS AIR AWAY FROM FLOOR
- CONTINUOUSLY WELDED HOUSING
- CLEANOUT DOOR WITH LATCHES PROVIDE EASY ACCESS WITHOUT TOOLS
- 2" GREASE DRAIN WILL NOT CLOG

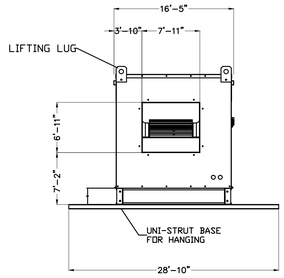
OPTIONS
EXHAUST FAN GREASE CUP (TWIN CITY UTILITY SET)
UTILITY SET - SPRING VIBRATION ISOLATORS - BI12 THRU BI18 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE.

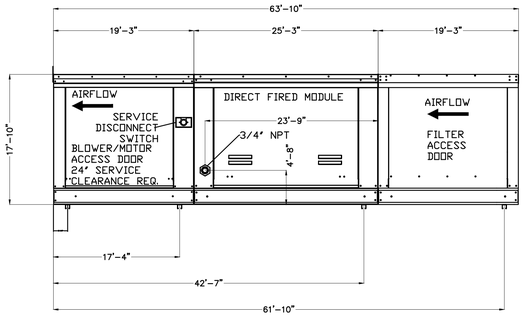
FAN #2 A1-D.250-G10 - HEATER (MAU-1)

1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 10" BLOWER
2. V-BANK EZ FILTERS - INDOOR
3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT
4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
5. COOLING INTERLOCK RELAY. 24VAC COIL. 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
6. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE
8. INDOOR HANGING CRADLE FOR THE SIZE 1 DIRECT FIRED UNIT. 2 HSA125 HANGING ISOLATORS PER UNI-STRUT INCLUDED.
9. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR DIRECT FIRED HEATERS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LF120S ACTUATOR INCLUDED
10. FREEZESTAT WITH 10'SENSOR. FACTORY SET AT 35°F AND 10 MINUTES.

SUPPLY SIDE HEATER INFORMATION:
WINTER TEMPERATURE = 20°F. TEMP. RISE = 70°F.
OUTPUT BTUs AT ALTITUDE OF 0.0 ft. = 80909
INPUT BTUs AT ALTITUDE OF 0.0 ft. = 87944







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PROJECT DRAWINGS — MECHANICAL

Drawing Title: MECHANICAL HOOD DETAILS
Drawing No.: M7-02
Job Title: DCFEMS Station 16
Project Address: 1018 13th Street, Washington, DC 20005

Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
Sheet	61 OF 100

ELECTRICAL PACKAGES

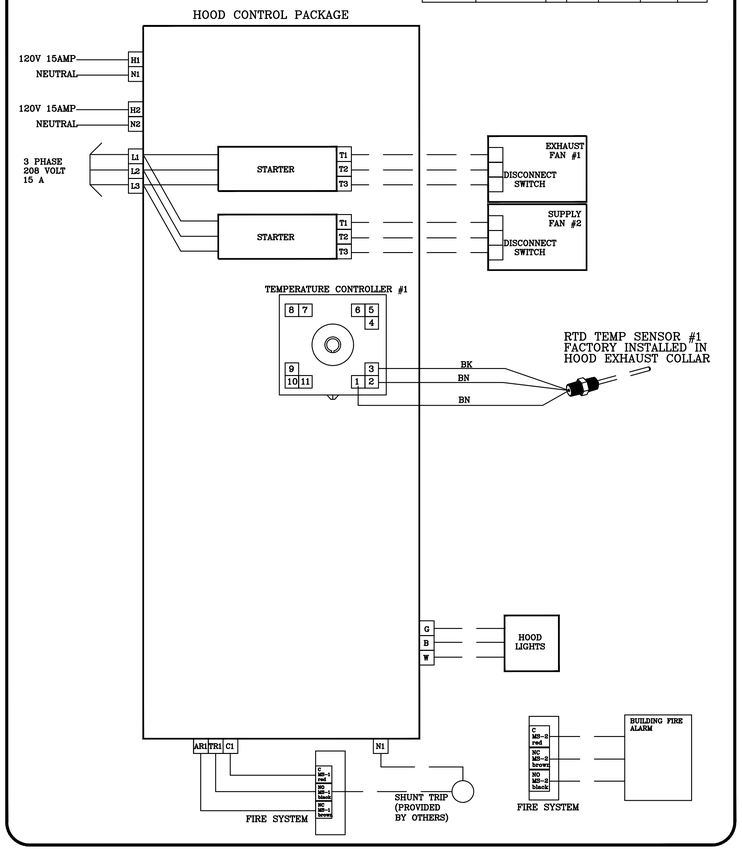
NO.	TAG	PACKAGE #	LOCATION	SWITCHES		ROOFTOP STARTERS	OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY			TYPE	ø	H.P.	VOLT	FLA
1	First	311110FP	Utility Cabinet Left	Utility Cabinet Left	1 Light		Exhaust On In Fire, Fans On/Off Thermostatically Controlled	Exhaust	3	2.000	208	6.0
				Hood # 1	1 Fan							
								Supply	3	1.500	208	4.7

ELECTRICAL PACKAGE # 1

CONTROL PANEL INSTALLATION | JOB NAME | DATE

DRAWING NUMBER | JOB NUMBER | MODEL

MOTOR	TAG	PH	VLT	HP	FLA	BRK
EXH-1	EF-1	3	208	2	6	15A
SUP-2	MAU-1	3	208	1.5	4.7	--



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PROJECT DRAWINGS | MECHANICAL

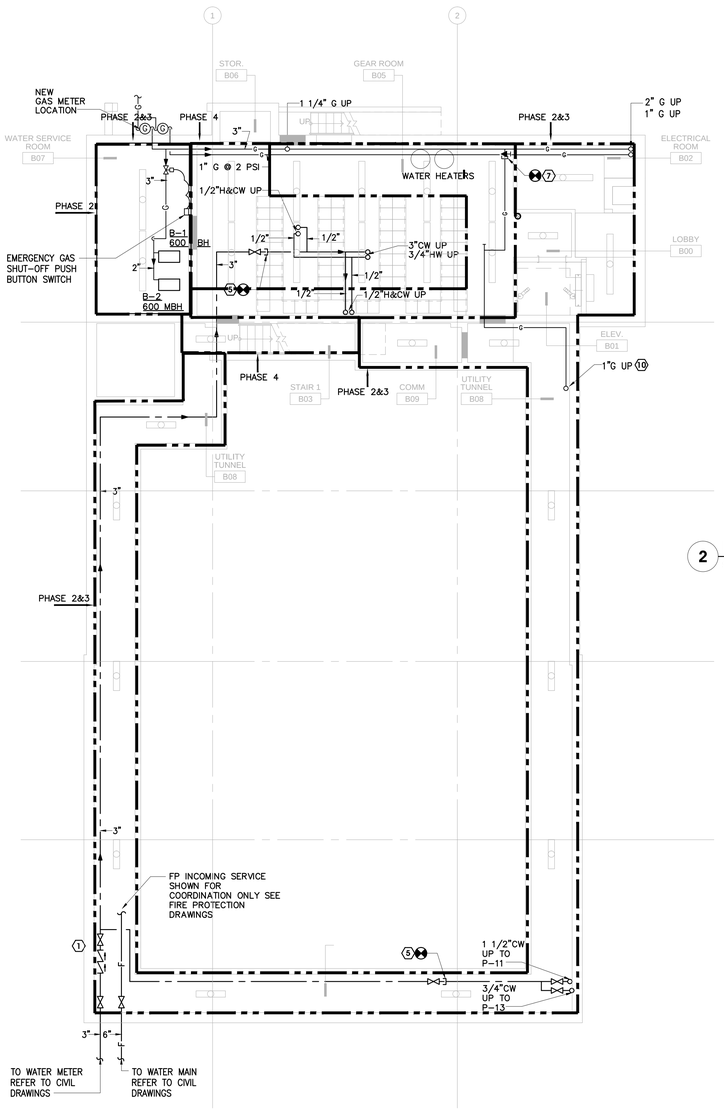
Drawing Title: MECHANICAL HOOD DETAILS

Drawing No.: M7-03

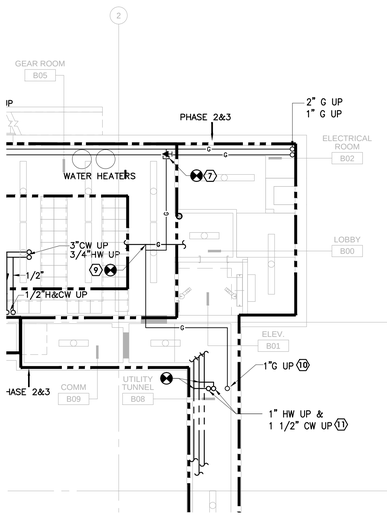
Job Title: DCFEMS Station 16

Project Address: 1018 13th Street, Washington, DC 20005

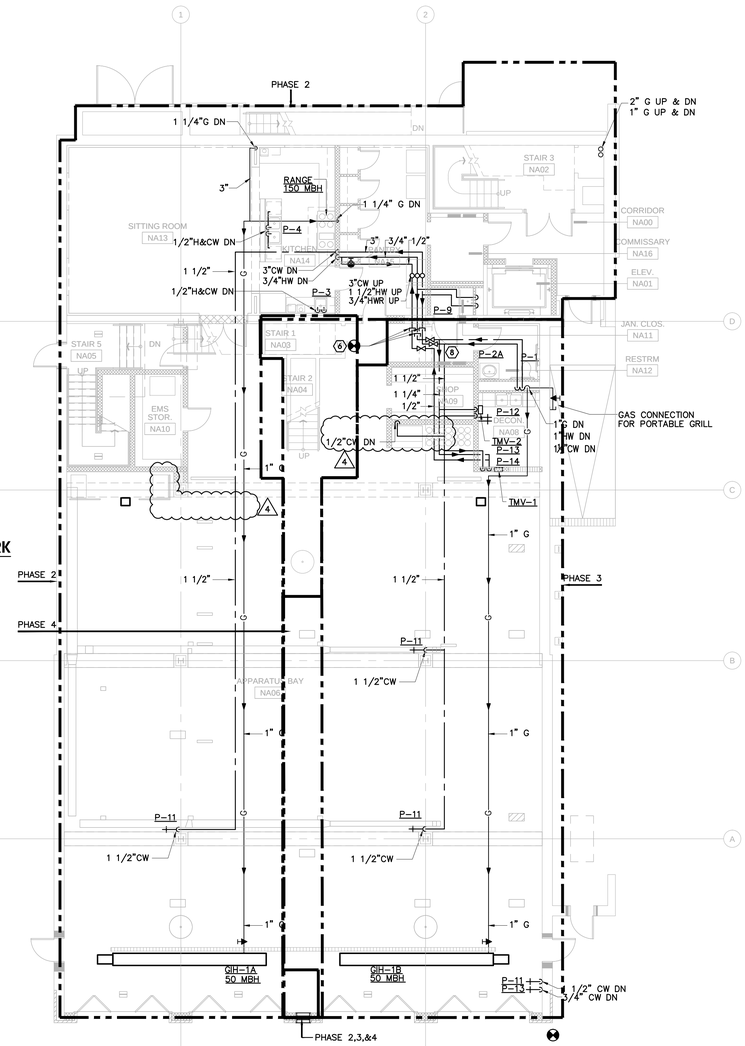
Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
Sheet	62 OF 100



1 **PLUMBING BASEMENT PLAN - DOMESTIC WATER AND GAS - NEW WORK**
SCALE: 1/8"=1'-0"



2 **PLUMBING BASEMENT PART PLAN - DOMESTIC WATER AND GAS - PHASE 1 NEW WORK**
SCALE: 1/8"=1'-0"



3 **PLUMBING FIRST FLOOR PLAN - DOMESTIC WATER AND GAS - NEW WORK**
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. REFER TO DRAWING CS-06, CS-07 AND CS-08 FOR SPECIFIC PHASING SCOPE AND COORDINATION.
2. REFER TO DRAWING P0.00 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
3. FOR ADDITIONAL PIPE SIZES SEE RISER DIAGRAM ON SHEET P4.03 AND P4.04.
4. ALL SANITARY PIPING SHOWN IS LOCATED BELOW FLOOR UON

PHASE 1:

BASEMENT

- RELOCATE EXISTING GAS FIRED WATER HEATERS AND ASSOCIATED PIPING.

FIRST FLOOR

- MAINTAIN EXISTING SINK AND ASSOCIATED PIPING FOR TEMPORARY KITCHEN.

PHASE 2:

BASEMENT

- INSTALL NEW FIRE AND WATER SERVICES AND ASSOCIATED MAINS TO SERVE UPPER FLOORS.

FIRST FLOOR

- INSTALL NEW WORK FOR SOUTH AND SOUTH WEST PORTION OF FLOOR.

PHASE 3:

FIRST FLOOR

INSTALL NEW WORK FOR NORTH SIDE OF APARATUS BAY. EXTEND PIPING FROM CAPPED CONNECTION IN PHASE 1.

SPECIFIC NOTES

1. PROVIDE AND INSTALL 3" RPZ ASSE 1013 BACKFLOW PREVENTER ON WATER SERVICE. BACKFLOW AND PRV (IF NEEDED) MAY BE INSTALLED HORIZONTALLY. SEE RISER DIAGRAM ON SHEET P4-01. VERIFY STATIC PRESSURE IN FIELD PRIOR TO CONSTRUCTION. IF PRESSURE EXCEEDS 80 PSI, PROVIDE AND INSTALL PRESSURE REDUCING VALVE. IF PRESSURE IS LESS THAN 50 PSI CONTACT ARCHITECT AND ENGINEER.
2. GAS METER & PRESSURE REGULATOR TO EMERGENCY GENERATOR SHALL BE FURNISH & INSTALLED BY WASHINGTON GAS CO. PIPING AND METER SHALL BE LABELED "EMERGENCY UNINTERUPTABLE". PROVIDE AND INSTALL 2 PSI GAS PRESSURE TO GENERATOR.
3. GAS METER & PRESSURE REGULATOR TO HOUSE SERVICE SHALL BE FURNISH & INSTALLED BY WASHINGTON GAS CO. IN PHASE 1 SCOPE OF WORK PIPING AND METER SHALL BE LABELED AS INTERUPTABLE. PROVIDE AND INSTALL .25 PSI, 1950 MBH HOUSE SERVICE.
4. CONNECT NEW GAS PIPING TO VALVED AND CAPPED CONNECTION INSTALLED IN PHASE 2 SCOPE OF WORK.
5. CONNECT NEW DCW PIPING TO VALVED AND CAPPED CONNECTION INSTALLED IN PHASE 2 SCOPE OF WORK.
6. CONNECT NEW DCW, DHW AND DHWR TO VALVED AND CAPPED CONNECTIONS INSTALLED IN PHASE 1 SCOPE OF WORK.
7. CONNECT NEW GAS PIPING TO VALVED AND CAPPED CONNECTION INSTALLED IN PHASE 1 SCOPE OF WORK.
8. CW, HW AND HWR PIPING SHOW FOR SCHEMATIC LOCATION ONLY. DO NOT RUN PIPING OVER ELECTRICAL PANELS.
9. CONNECT NEW 1" GAS SUPPLY TO EXISTING GAS PIPING UNDER PHASE 1 SCOPE OF WORK FOR TEMPORARY SUPPLY UNTIL NEW GAS PIPING FOR PHASE 2 SCOPE OF WORK IS COMPLETED AND TEMPORARY SUPPLY IS DISCONNECTED AND CAPPED OFF.
10. NEW 1" GAS SUPPLY UP INSTALLED UNDER PHASE 1 SCOPE OF WORK SHALL REMAIN.
11. NEW TEMPORARY CW AND HW SUPPLIES UP, INSTALLED UNDER PHASE 1 SCOPE OF WORK, SHALL BE DISCONNECTED AND CAPPED OFF AFTER PHASE 2 SCOPE OF WORK CONNECTION AND SUPPLY HAVE BEEN INSTALLED ON THE FIRST FLOOR ABOVE.

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	Revision	Date	Description.	By

Seal
Engineer Name:
Registration Number:
Expiration Date:
Architect
Date:

PROJECT DRAWINGS

Drawing Title: PLUMBING BASEMENT AND FIRST FLOOR PLANS - DOMESTIC WATER AND GAS - NEW WORK

Job Title: DCFEMS Station 16

Project Address: 1018 13th Street Washington, DC 20005

Drawing No.: P1-01

Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
Sheet	67 OF 100

GENERAL NOTES

1. REFER TO DRAWING CS-06, CS-07 AND CS-08 FOR SPECIFIC PHASING SCOPE AND COORDINATION.
2. REFER TO DRAWING P0.00 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
3. FOR ADDITIONAL PIPE SIZES SEE RISER DIAGRAM ON SHEET P4.03 AND P4.04.

PHASE 1:

BASEMENT

- INSTALL FLOOR DRAINS, TRAP PRIMER, AND ELEVATOR SUM PUMP.

FIRST FLOOR

- MAINTAIN ALL ASSOCIATED PIPING FOR TEMPORARY KITCHEN.

PHASE 2:

BASEMENT

- INSTALL FLOOR DRAINS, TRAP PRIMER AND BACKFLOW PREVENTER SUMP..

FIRST FLOOR

- INSTALL NEW WORK FOR SOUTH AND SOUTH EAST PORTION OF FLOOR.
- CAPPED SANITARY AND VENT PIPING FOR FUTURE CONNECTION AS SHOWN.

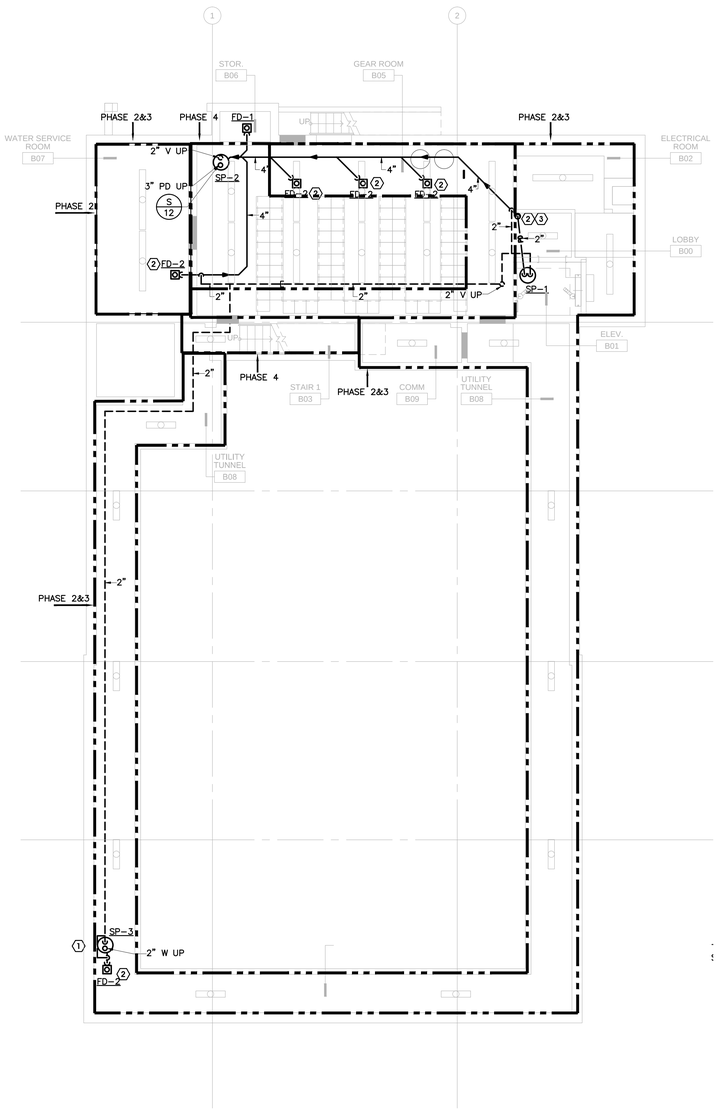
PHASE 3:

FIRST FLOOR

INSTALL NEW WORK FOR NORTH SIDE OF APARATUS BAY. EXTEND PIPING FROM CAPPED CONNECTION IN PHASE 2.

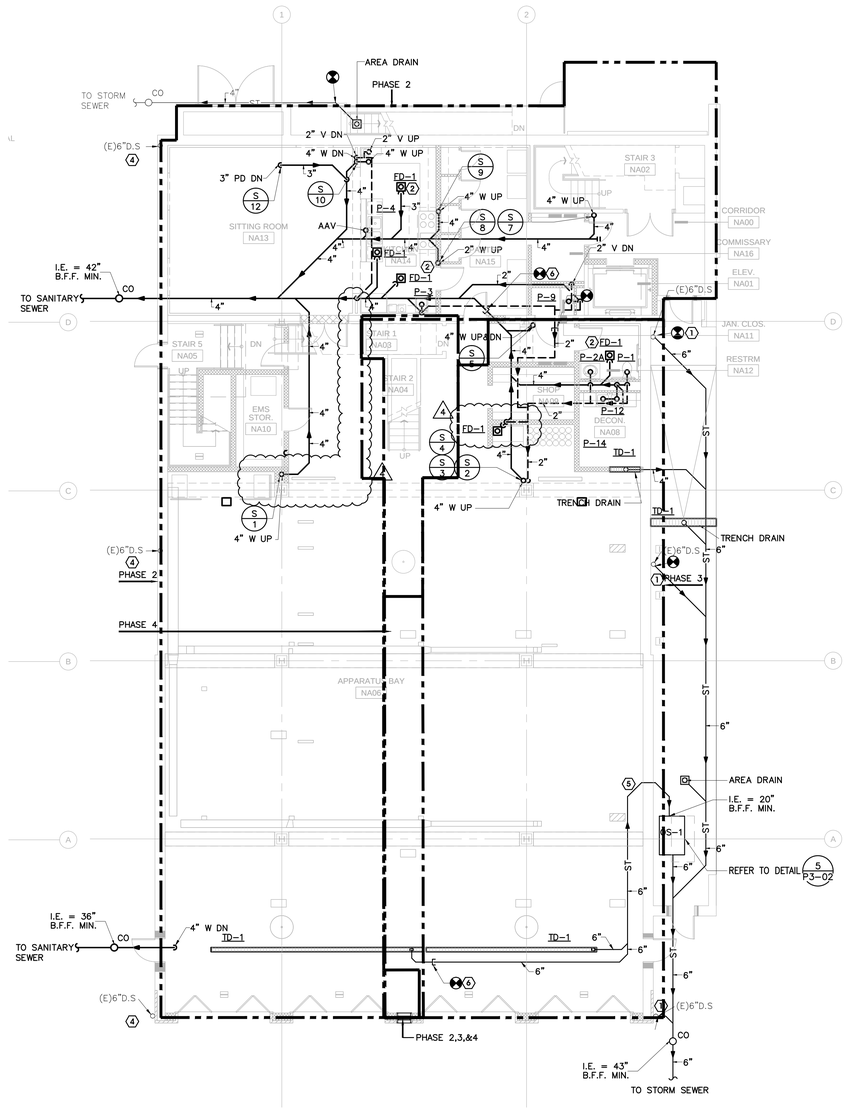
SPECIFIC NOTES

1. PROVIDE NEW STORM PIPING WITH BOOT TO COLLECT STORM WATER FROM EXISTING TO REMAIL DOWNSPOUTS. SEE ARCHITECTURAL PLANS FOR ALL GUTTERING AND DOWNSPOUTS AND SEE CIVIL PLANS FOR WORK 5' OUTSIDE BUILDING PERIMITER.
2. PROVIDE AND INSTALL TRAP PRIMER ON ALL FLOOR DRAINS (NOT SHOWN).
3. ELEVATOR SUMP PIT SHALL BE PIPED TO OPEN HUB PIPE AS SHOWN. PROVIDE AIR GAP AS REQUIRED PER LOCAL CODES. SEE DETAIL ON SHEET P3-01.
4. SEE ARCHITECTURAL DRAWINGS FOR ANY EXISTING DOWNSPOUT MODIFICATIONS.
5. INSTALL NEW STORM FROM TD-1 PIPE TO BE COLLECTED BY OS AS HIGH AS POSSIBLE.
6. CONNECT NEW DRAINAGE PIPING TO CAPPED CONNECTION INSTALLED IN PHASE 1 SCOPE OF WORK.



1 PLUMBING BASEMENT PLAN - WASTE AND STORM - NEW WORK

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



2 PLUMBING FIRST FLOOR PLAN - WASTE AND STORM - NEW WORK

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

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	Revision	Date	Description.	By	

PROJECT DRAWINGS

Drawing Title: PLUMBING BASEMENT AND FIRST FLOOR PLANS - WASTE AND STORM - NEW WORK

Drawing No.: P1-01A

Job Title: DCFEMS Station 16

Project Address: 1018 13th Street Washington, DC 20005

Seal

Engineer Name:

Registration Number:

Expiration Date:

Architect

Date:

Building ID No.	934
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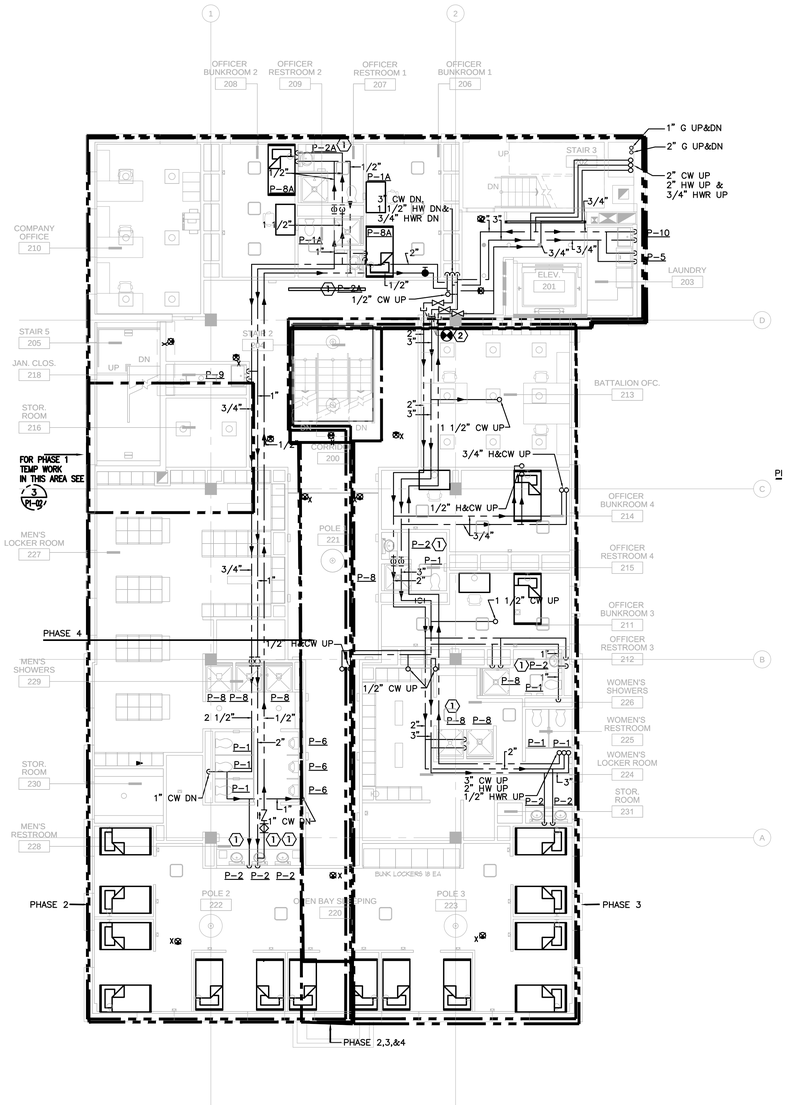
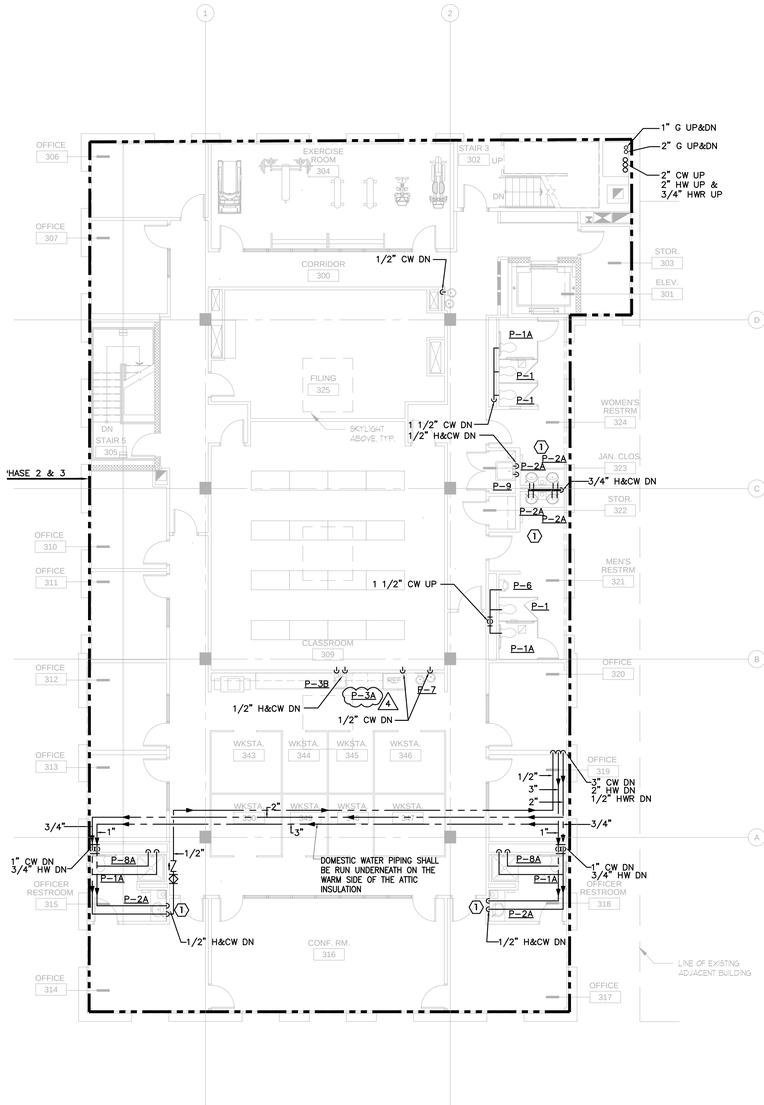


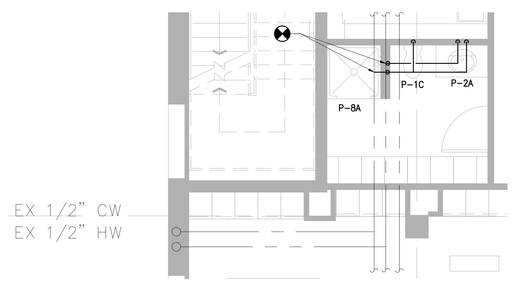
1 PLUMBING SECOND FLOOR PLAN - DOMESTIC WATER AND GAS - NEW WORK

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



2 PLUMBING THIRD FLOOR PLAN - DOMESTIC WATER AND GAS - NEW WORK

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



3 PLUMBING SECOND FLOOR PLAN - DOMESTIC WATER - PHASE 1 TEMP. RESTROOM

SCALE: 1/4"=1'-0"

GENERAL NOTES

1. REFER TO DRAWINGS CS-06, CS-07 AND CS-08 FOR SPECIFIC PHASING SCOPE AND COORDINATION.
2. REFER TO DRAWING P0.00 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
3. COORDINATE ALL FLOOR PENETRATIONS AND BELOW SLAB PIPING WITH STRUCTURAL ELEMENTS.
4. FOR ADDITIONAL PIPE SIZES SEE RISER DIAGRAM ON SHEET P4.03 AND P4.04.

PHASE 2:

SECOND FLOOR

- INSTALL NEW WORK FOR THE SOUTH AND SOUTH WEST PORTION OF FLOOR.

PHASE 3:

SECOND FLOOR

INSTALL NEW WORK FOR NORTH SIDE OF FLOOR AREA. EXTEND PIPING FROM CAPPED CONNECTION IN PHASE 2.

THIRD FLOOR

INSTALL NEW WORK FOR THE ENTIRE PORTION OF FLOOR.

SPECIFIC NOTES

1. PROVIDE AND INSTALL WATTS MODEL MMV TEMPERING VALVE UNDER LAVATORY SINK (VALVE NOT SHOWN). VALVE SHALL BE SET TO 105 DEGREES.
2. CONNECT NEW CW, HW AND HWR PIPING TO VALVED AND CAPPED CONNECTION INSTALLED IN PHASE 2 SCOPE OF WORK

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	Revision	Date	Description	By	

PROJECT DRAWINGS

Seal

Engineer Name:

Registration Number:

Expiration Date:

Architect

Date:

Drawing Title: PLUMBING SECOND AND THIRD FLOOR PLANS - DOMESTIC WATER AND GAS - NEW WORK

Job Title: DCFEMS Station 16

Project Address: 1018 13th Street Washington, DC 20005

Drawing No.: P1-02

Building ID No.	934
Project No.	2908.01
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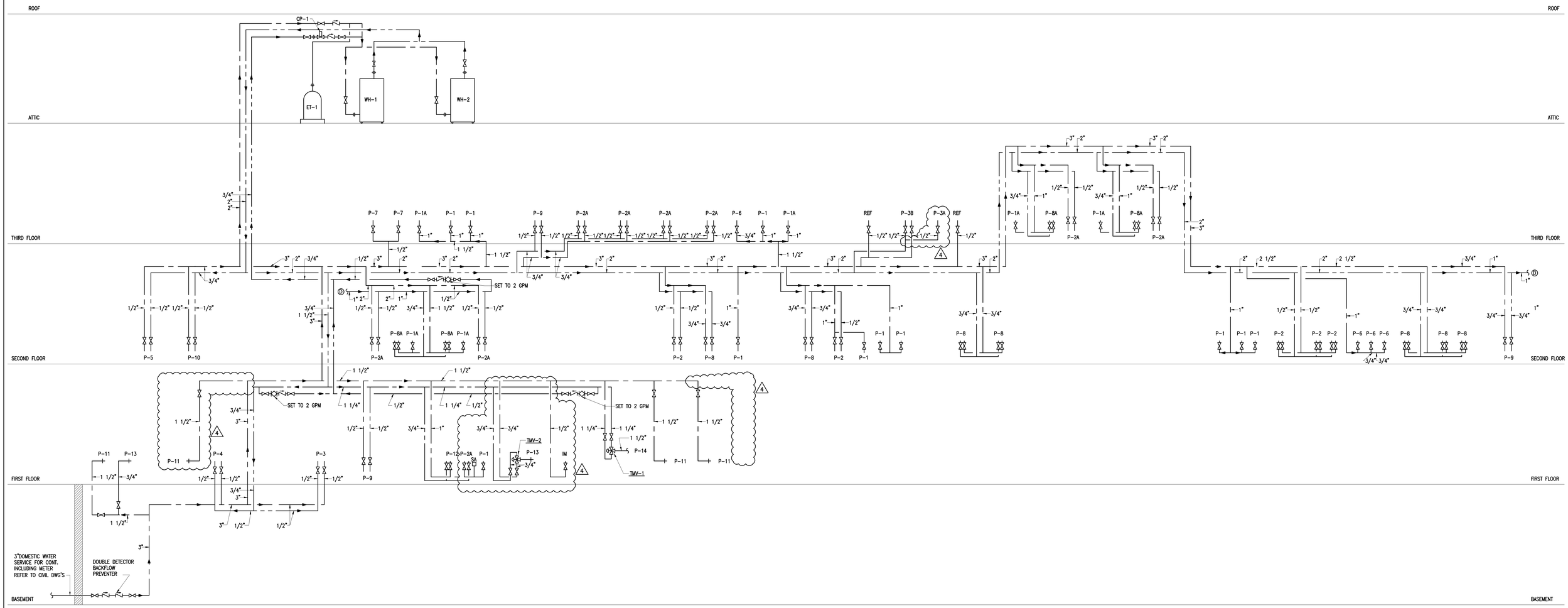

1 DOMESTIC WATER RISER DIAGRAM

SCALE: NONE

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Seal
Engineer Name:
Registration Number:
Expiration Date:
Architect
Date:

PROJECT DRAWINGS — PLUMBING

Drawing Title: PLUMBING - DOMESTIC WATER RISER DIAGRAM

Drawing No.: P4-01

Job Title: DCFEMS Station 16

Project Address: 1018 13th Street, Washington, DC 20005

Building ID No.	934
Project No.	2908.01
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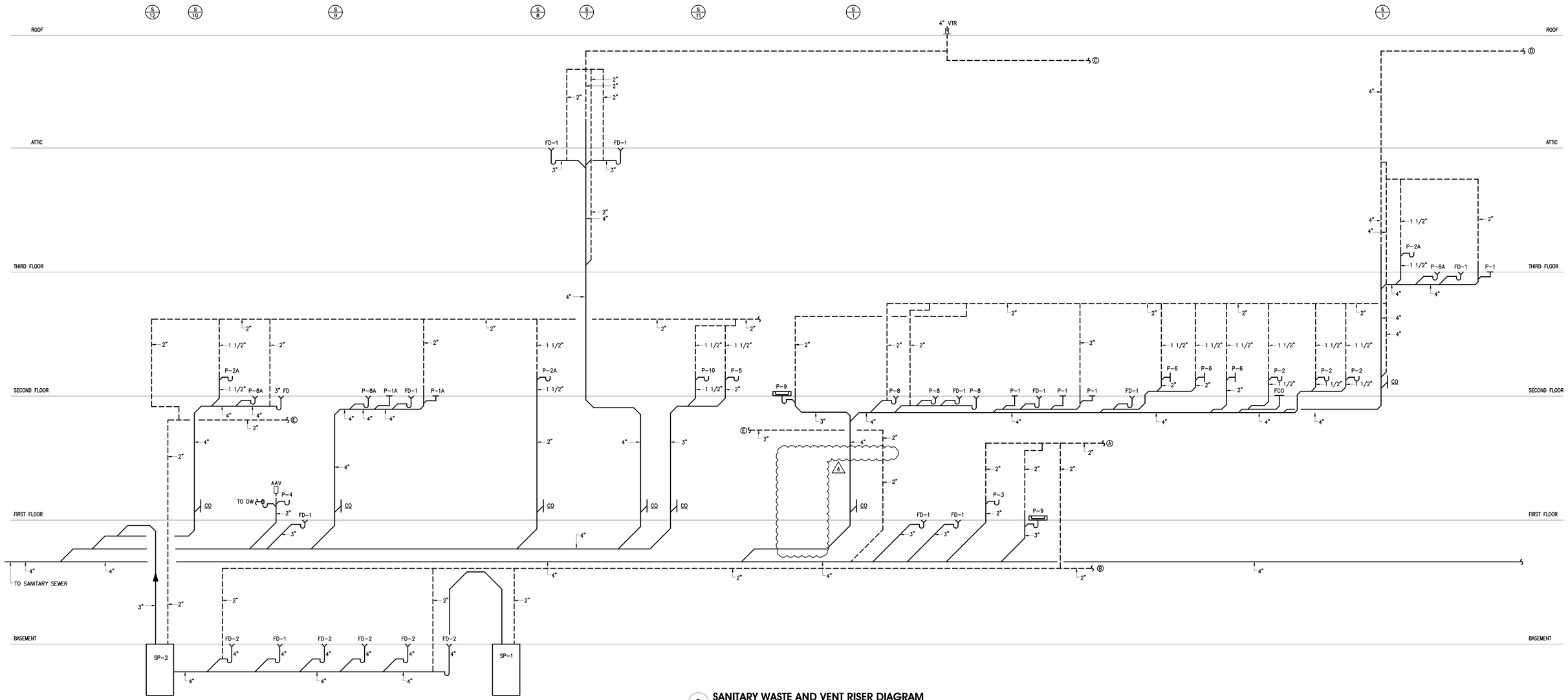

1 SANITARY WASTE AND VENT RISER DIAGRAM

SCALE: NONE

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	Revision	Date	Description.	By / App

Seal
Engineer Name:
Registration Number:
Expiration Date:
Architect
Date:

PROJECT DRAWINGS — PLUMBING

Drawing Title: PLUMBING SANITARY WASTE AND VENT RISER DIAGRAM

Drawing No.: P4-03

Job Title: DCFEMS Station 16

Project Address: 1018 13th Street, Washington, DC 20005

Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
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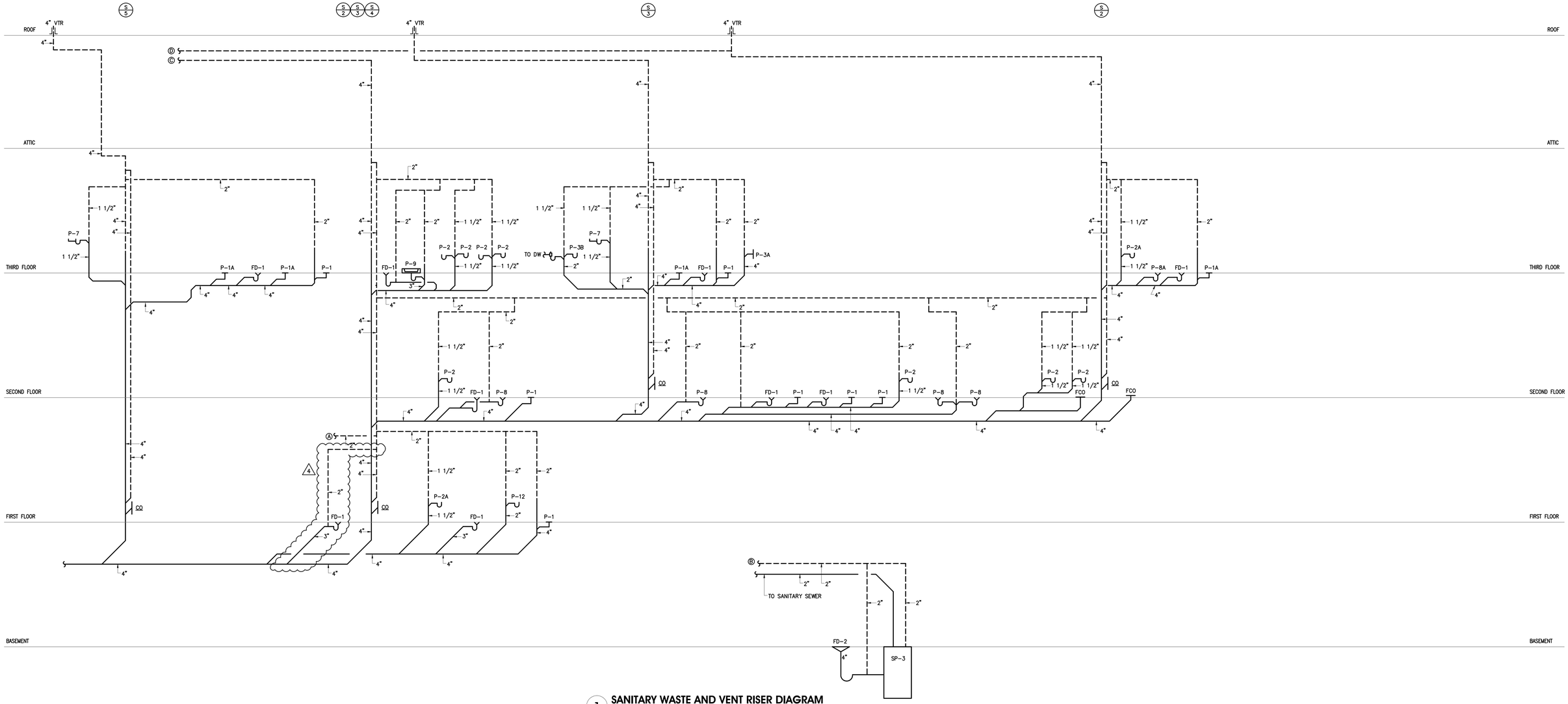

1 SANITARY WASTE AND VENT RISER DIAGRAM

SCALE: NONE

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PROJECT DRAWINGS — PLUMBING

Drawing Title: PLUMBING SANITARY WASTE AND VENT RISER DIAGRAM

Drawing No.: P4-04

Job Title: DCFEMS Station 16

Seal

Engineer Name:

Registration Number:

Expiration Date:

Architect

Date:

Project Address: 1018 13th Street, Washington, DC 20005

Building ID No. 934
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Issue Date 01-22-15
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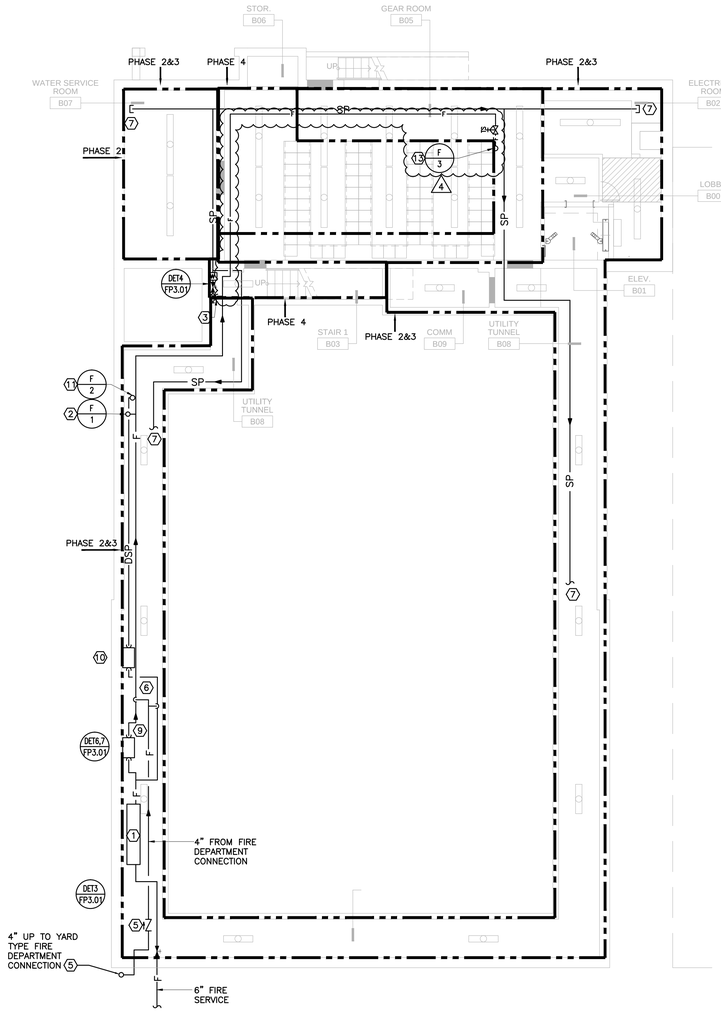
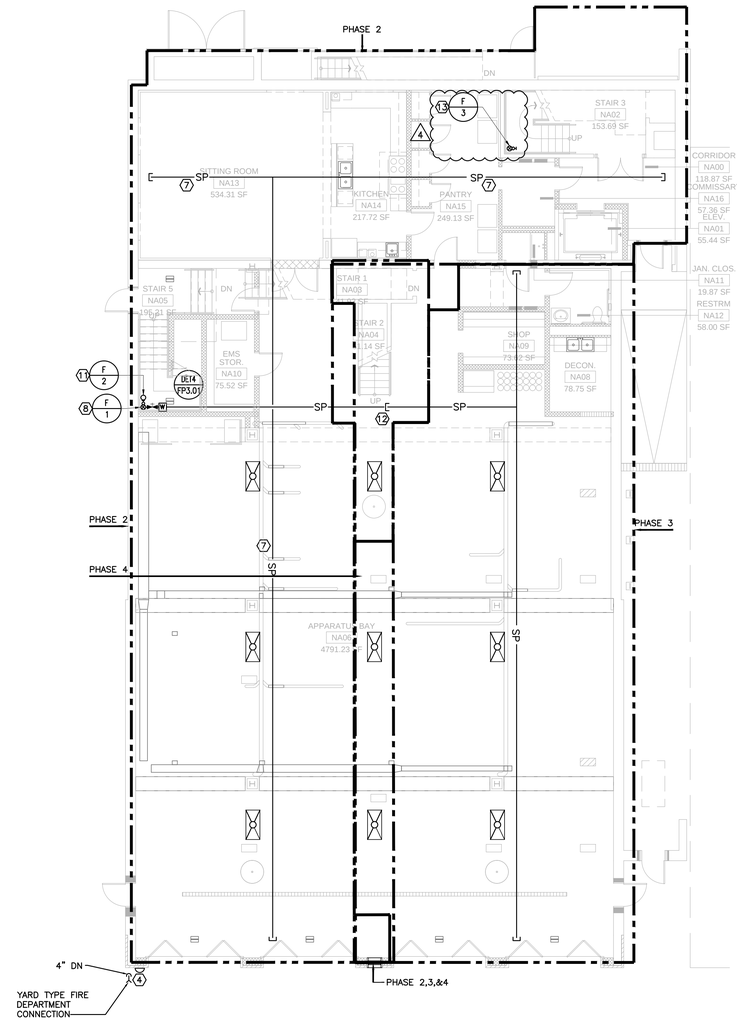


1 FIRE PROTECTION BASEMENT PLAN - NEW WORK

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



2 FIRE PROTECTION FIRST FLOOR PLAN - NEW WORK

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

GENERAL NOTES

1. REFER TO DRAWING FP0.00 FOR GENERAL NOTES, SYMBOLS, DETAILS, FLOW TEST INFORMATION AND ABBREVIATIONS.
2. REFER TO DRAWING CS-06, CS-07 AND CS-08 FOR SPECIFIC PHASING SCOPE AND COORDINATION.

SPECIFIC NOTES

1. DOUBLE CHECK DETECTOR METER/BACKFLOW PREVENTER. FIRE PROTECTION WORK STARTS DOWNSTREAM OF THE METER/BFP.
2. COMBINED SPRINKLER STANDPIPE UP WITH FLOW CONTROL ASSEMBLY AND 2 1/2" FIRE HOSE CONNECTION AT EACH FLOOR. PROVIDE 2" EXPRESS DRAIN FOR EACH RISER.
3. STANDPIPE DOWN TO FLOOR CONTROL ASSEMBLY AND HOSE VALVE.
4. ALARM GONG.
5. 4" UP TO FIRE DEPARTMENT CONNECTION WITH SWING CHECK VALVE AND AUTO DRIP.
6. CONNECT 4" FROM FDC TO SYSTEM DOWNSTREAM OF WET SYSTEM ALARM CHECK VALVE, UPSTREAM OF DRY SYSTEM VALVE.
7. WET PIPE SPRINKLER PIPING TO SPRINKLERS THIS FLOOR.
8. MANUAL WET STANDPIPE UP AND DOWN WITH FLOW CONTROL ASSEMBLY AND 2 1/2" FIRE HOSE CONNECTION AT EACH FLOOR EXCEPT BASEMENT. PROVIDE 2" EXPRESS DRAIN FOR EACH RISER.
9. WET PIPE SYSTEM SPRINKLER ALARM RISER.
10. DRY PIPE SYSTEM SPRINKLER ALARM VALVE-SERVES ATTIC SPACE.
11. DRY PIPE SPRINKLER SUPPLY PIPING RISER TO ATTIC.
12. WET PIPE SPRINKLER SYSTEM PIPING AND SPRINKLER HEADS SHALL BE INSTALLED UNDER PHASE 1 SCOPE OF WORK. DISTRIBUTION MAIN SHALL BE CAPPED OFF FOR CONNECTION TO AND EXTENSION FROM PHASE 2 SCOPE OF WORK SUPPLY MAIN.
13. MANUAL WET PIPE STANDPIPE UP AND DOWN WITH 2 1/2" FIRE HOSE CONNECTION AT EACH FLOOR EXCEPT BASEMENT. PROVIDE 2" EXPRESS DRAIN FOR EACH RISER. (4)

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	Revision	Date	Description.	By	App

PROJECT DRAWINGS — FIRE PROTECTION

Drawing Title: FIRE PROTECTION BASEMENT AND FIRST FLOOR PLANS - NEW WORK

Drawing No.: FP1-01

Job Title: DCFEMS Station 16

Seal

Engineer Name: Vassilis Skardis

Registration Number: 10793

Expiration Date:

Architect

Date:

Project Address: 1018 13th Street Washington, DC 20005

Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
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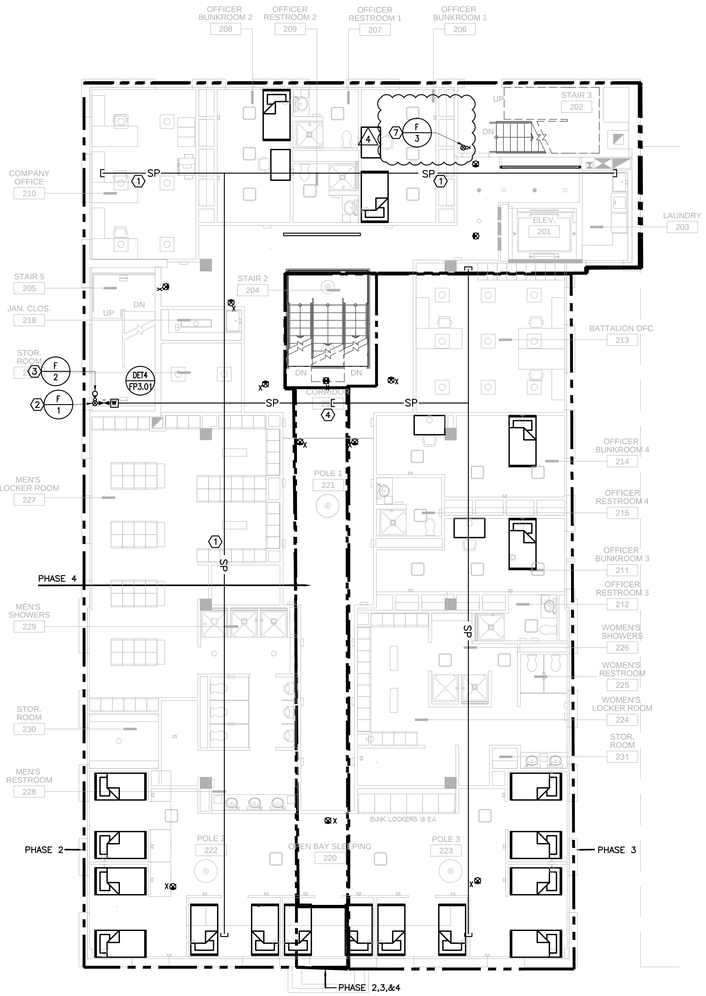
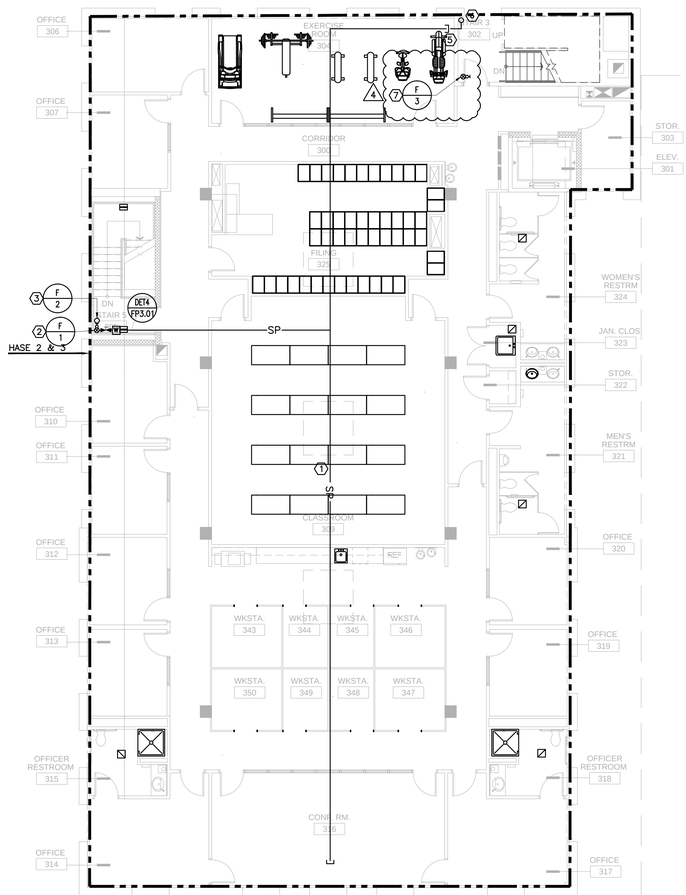


1 **FIRE PROTECTION SECOND FLOOR PLAN - NEW WORK**
SCALE: 1/8"=1'-0"



2 **FIRE PROTECTION THIRD FLOOR PLAN - NEW WORK**
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. REFER TO DRAWING FP0.00 FOR GENERAL NOTES, SYMBOLS, DETAILS, FLOW TEST INFORMATION AND ABBREVIATIONS.
2. REFER TO DRAWING CS-06, CS-07 AND CS-08 FOR SPECIFIC PHASING SCOPE AND COORDINATION.

SPECIFIC NOTES

(1) WET PIPE SPRINKLER PIPING TO SPRINKLERS THIS FLOOR.

(2) MANUAL WET PIPE STANDPIPE UP AND DOWN WITH FLOW CONTROL ASSEMBLY AND 2 1/2" FIRE HOSE CONNECTION AT EACH FLOOR EXCEPT BASEMENT. PROVIDE 2" EXPRESS DRAIN FOR EACH RISER.

(3) DRY PIPE SPRINKLER SUPPLY PIPING RISER TO ATTIC.

(4) WET PIPE SPRINKLER SYSTEM PIPING AND SPRINKLER HEADS SHALL BE INSTALLED UNDER PHASE 1 SCOPE OF WORK. DISTRIBUTION MAIN SHALL BE CAPPED OFF FOR CONNECTION TO AND EXTENSION FROM PHASE 2 SCOPE OF WORK SUPPLY MAIN.

(5) WET PIPE SPRINKLER SUPPLY PIPE SHALL BE CONNECTED TO CAPPED CONNECTION INSTALLED UNDER PHASE 2 SCOPE OF WORK.

(6) WET PIPE SPRINKLER SUPPLY RISER UP TO ATTIC MECHANICAL ROOF SPRINKLER SYSTEM.

(7) MANUAL WET PIPE STANDPIPE UP AND DOWN WITH 2 1/2" FIRE HOSE CONNECTION AT EACH FLOOR EXCEPT BASEMENT. PROVIDE 2" EXPRESS DRAIN FOR EACH RISER. (4)

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	Revision	Date	Description	By	App

PROJECT DRAWINGS — FIRE PROTECTION

Drawing Title: FIRE PROTECTION SECOND AND THIRD FLOOR PLANS - NEW WORK

Drawing No.: FP1-02

Job Title: DCFEMS Station 16

Seal

Engineer Name: Vassilis Skardis
Registration Number: 10793
Expiration Date:

Architect
Date:

Project Address: 1018 13th Street, Washington, DC 20005

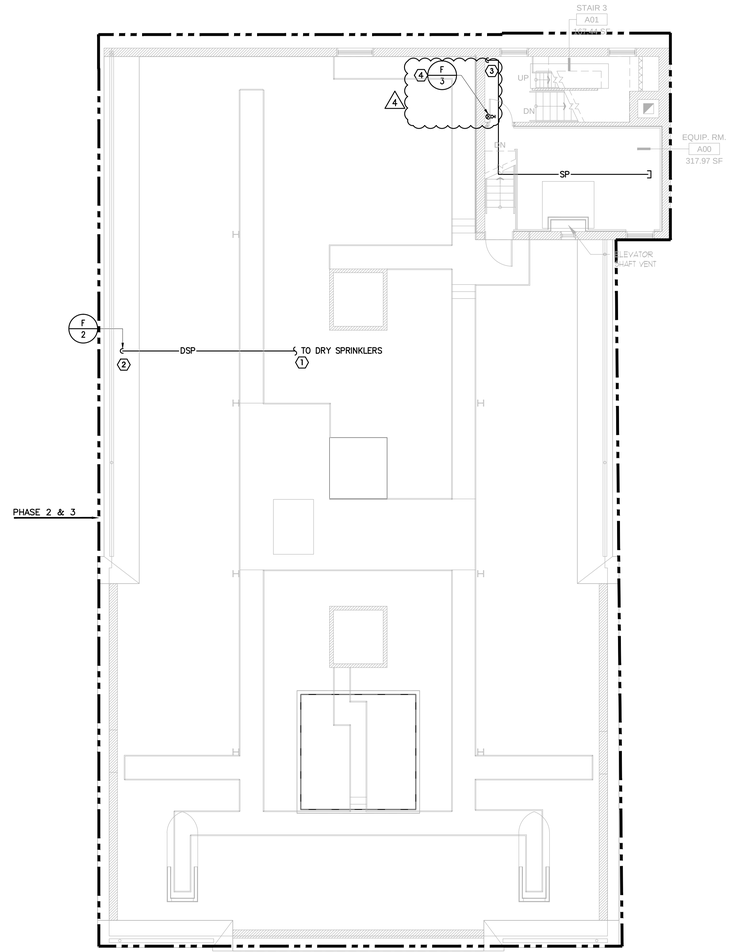
Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
Sheet	81 OF 100

GENERAL NOTES

1. REFER TO DRAWING FP0.00 FOR GENERAL NOTES, SYMBOLS, DETAILS, FLOW TEST INFORMATION AND ABBREVIATIONS.
2. REFER TO DRAWINGS CS-06, CS-07 AND CS-08 FOR SPECIFIC PHASING SCOPE AND COORDINATION.

SPECIFIC NOTES

1. DRY PIPE SPRINKLER SUPPLY PIPING TO SPRINKLERS IN ATTIC.
2. DRY PIPE SPRINKLER SUPPLY RISER FROM CONTROL VALVE ASSEMBLY IN BASEMENT UTILITY TUNNEL.
3. WET PIPE SPRINKLER SUPPLY RISER FROM THIRD FLOOR SYSTEM.
4. MANUAL WET PIPE STANDPIPE UP AND DOWN WITH 2 1/2" FIRE HOSE CONNECTION AT EACH FLOOR EXCEPT BASEMENT. PROVIDE 2" EXPRESS DRAIN FOR EACH RISER.



1 **FIRE PROTECTION ATTIC PLAN - NEW WORK**
SCALE: 1/8"=1'-0"

Key Plan

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Drawn : MC, TD, TM
Checked: VS, MW, EF

Seal

Engineer Name: Vassilis Skardis
Registration Number: 10793
Expiration Date:
Architect
Date:

Revision	Date	Description	By	App
2	06-17-15	ADDENDUM 4	MC, TD, TM	VS, MW, EF
1	03-26-15	DC COMMENTS	MC, TD, TM	VS, MW, EF
	01-22-15	FOR BID/PERMIT	MC, TD, TM	VS, MW, EF

PROJECT DRAWINGS — FIRE PROTECTION

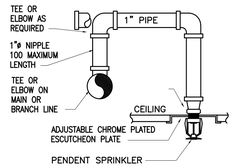
Drawing Title: FIRE PROTECTION ATTIC PLAN - NEW WORK

Drawing No.: FP1-03

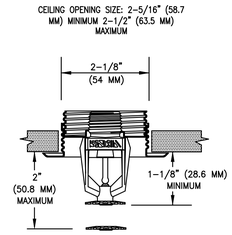
Job Title: DCFEMS Station 16

Project Address: 1018 13th Street, Washington, DC 20005

Building ID No.: 934
Project No.: 2908.01
Issue Date: 01-22-15
Sheet: 82 OF 100

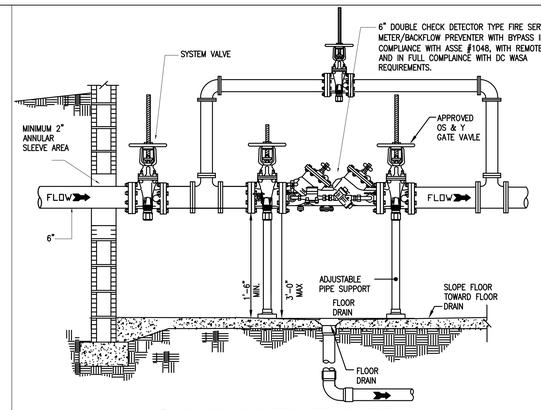


1 SPRINKLER INSTALLATION DETAILS
SCALE: NONE

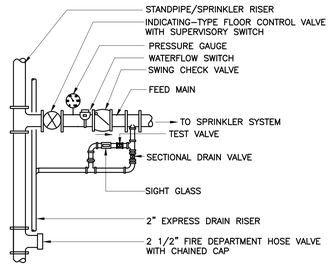


NOTE:
SIZES INDICATED ARE FOR VIKING QUICK RESPONSE PENDENT SPRINKLER 06662B (VK302) AND ARE INDICATED AS A GENERAL ORDER OF MAGNITUDE GUIDE. COORDINATE EXACT SIZES WITH MANUFACTURER SELECTED FOR THIS PROJECT.

2 SPRINKLER INSTALLATION DETAIL
SCALE: NONE



3 INCOMING FIRE SERIVCE DETAIL
SCALE: NOT TO SCALE



4 WET PIPE SYSTEM FLOOR CONTROL ASSEMBLY DETAIL
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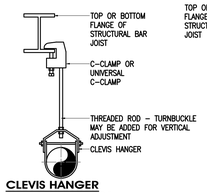
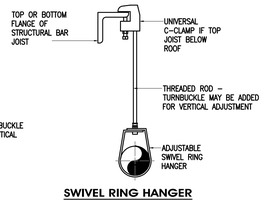
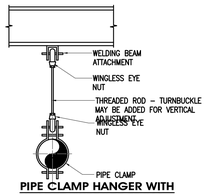


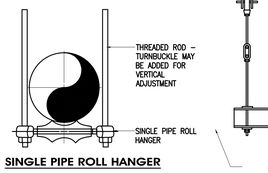
CLEVIS HANGER SUPPORTED FROM STRUCTURAL BAR JOIST WITH C-CLAMP



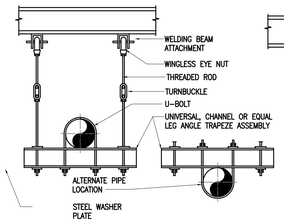
SWIVEL RING HANGER SUPPORTED FROM STRUCTURAL BAR JOIST WITH C-CLAMP



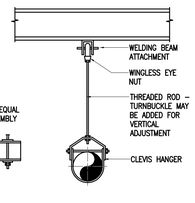
PIPE CLAMP HANGER WITH WELDED SUPPORT FROM STRUCTURE



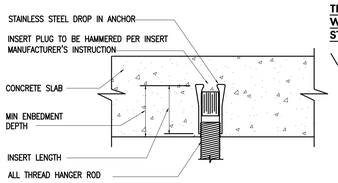
SINGLE PIPE ROLL HANGER



TRAPEZE HANGER WITH WELDED SUPPORT FROM STRUCTURE

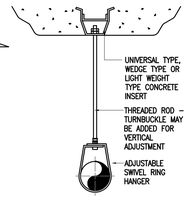


CLEVIS HANGER WITH WELDED SUPPORT FROM STRUCTURE

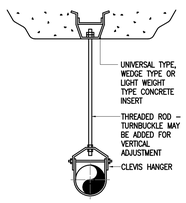


CONCRETE EXPANSION SHIELD INSERT ANCHOR BASIS OF DESIGN: "HILTI"			
ANCHOR SIZE	INSERT LENGTH	MINIMUM EMBEDMENT DEPTH	MAXIMUM HOLE DEPTH
1/4"	1"	1 1/4"	2"
3/8"	1 9/16"	2"	2 1/2"
1/2"	2"	2 1/2"	3"
5/8"	2 9/16"	3"	3 1/2"
3/4"	3 3/16"	3 1/2"	4"

TYPICAL UPPER ANCHOR ATTACHMENT FOR HANGERS IN CONCRETE



SWIVEL RING HANGER SUPPORTED FROM CONCRETE STRUCTURE WITH SUPPORT INSERT

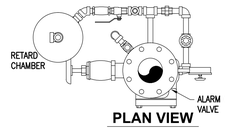


CLEVIS HANGER SUPPORTED FROM CONCRETE STRUCTURE WITH SUPPORT INSERT

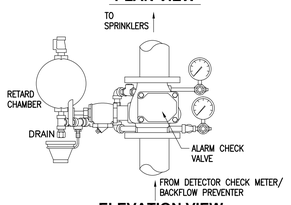
NOTES:

1. SPRINKLER HANGERS, BRACING AND RESTRAINTS ARE NOT LIMITED TO THESE EXAMPLES, ALL MUST COMPLY WITH NFPA 13, CHAPTER 9, AND AS APPROVED BY LOCAL AHJ.
2. ALL COMPONENTS OF HANGER ASSEMBLIES THAT DIRECTLY ATTACH TO THE BUILDING STRUCTURE OR THE PIPE SHALL BE UL LISTED.
3. HANGERS AND THEIR COMPONENTS SHALL BE FERROUS UNLESS SPECIFICALLY EXEMPTED PER NFPA 13, CHAPTER 9.
4. ALL TRAPEZE HANGERS SHALL CORFORM TO SECTIONAL MODULUS REQUIREMENTS AS NOTED IN NFPA 13, CHAPTER 9.
5. SPRINKLER PIPING OR HANGERS SHALL NOT BE USED TO SUPPORT NON-SYSTEM COMPONENTS.
6. HANGER RODS SHALL MEET MINIMUM DIAMETER REQUIREMENTS PER NFPA 13, CHAPTER 9.
7. UNSUPORTED ARMOVER LENGTHS SHALL NOT EXCEED THOSE LISTED IN NFPA 13, CHAPTER 9.
8. ALL FP COMPONENTS SHALL BE "UL" LISTED AS PER NFPA.

5 FIRE PROTECTION HANGER DETAIL
SCALE: NONE

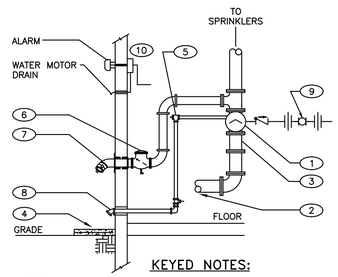


PLAN VIEW



ELEVATION VIEW

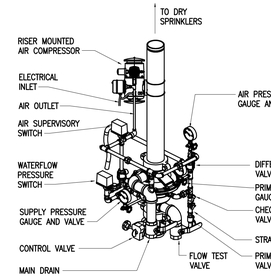
6 WET PIPE SYSTEM ALARM CHECK ASSEMBLY DETAIL
SCALE: NOT TO SCALE



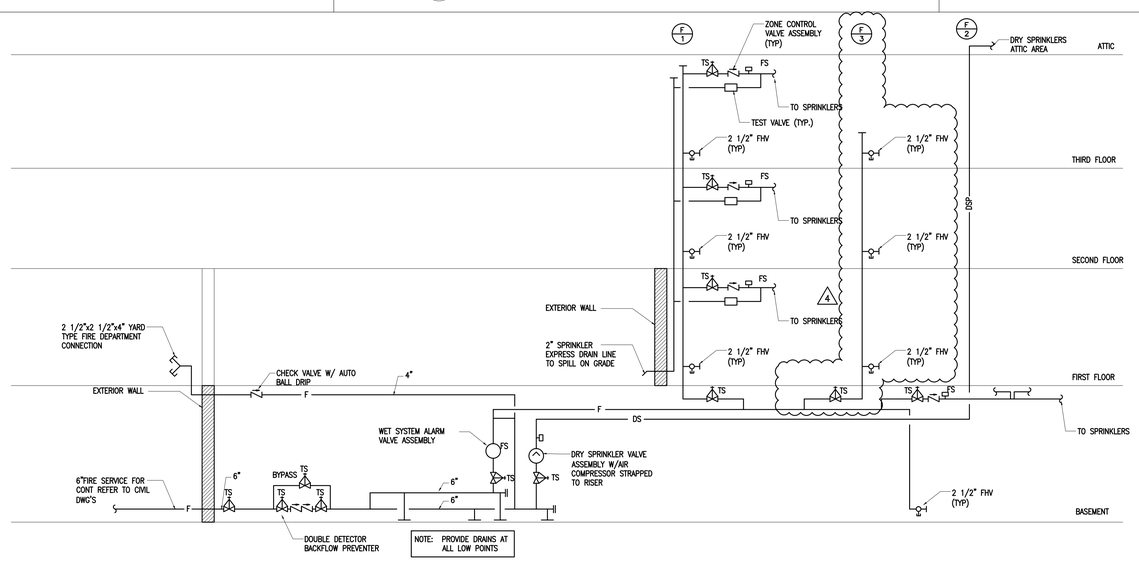
KEYED NOTES:

1. ALARM CHECK VALVE WITH COMPLETE UL LISTED TRIM PER NFPA 13
2. FROM METER AND BACKFLOW PREVENTERS.
3. 6" LONG SPOOL PIECE.
4. CONCRETE SPLASH BLOCK.
5. 2" MAIN DRAIN ANGLE VALVE.
6. CHECK VALVE WITH 1/2" BALL DRIP.
7. FIRE DEPARTMENT CONNECTION.
8. 2" MAIN DRAIN WITH 45° ELBOW TURN DOWN.
9. ALARM SHUTOFF VALVE WITH TAMPER SWITCH.
10. WATER OR ELECTRIC GONG

7 WET SYSTEM SPRINKLER ALARM RISER DETAIL
SCALE: NOT TO SCALE



8 DRY SYSTEM ALARM VALVE ASSEMBLY DE
SCALE: NOT TO SCALE



9 SPRINKLER RISER DIAGRAM
SCALE: NONE

Key Plan

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Drawn: MC, TD, TM	3	03-26-15	DC COMMENTS	MC, TD, TM	VS, MW, EF
Checked: VS, MW, EF		01-22-15	FOR BID/PERMIT	MC, TD, TM	VS, MW, EF
	Revision	Date	Description	By	App

PROJECT DRAWINGS — FIRE PROTECTION

Drawing Title: FIRE PROTECTION DETAILS AND RISER DIAGRAM

Drawing No.: FP3-01

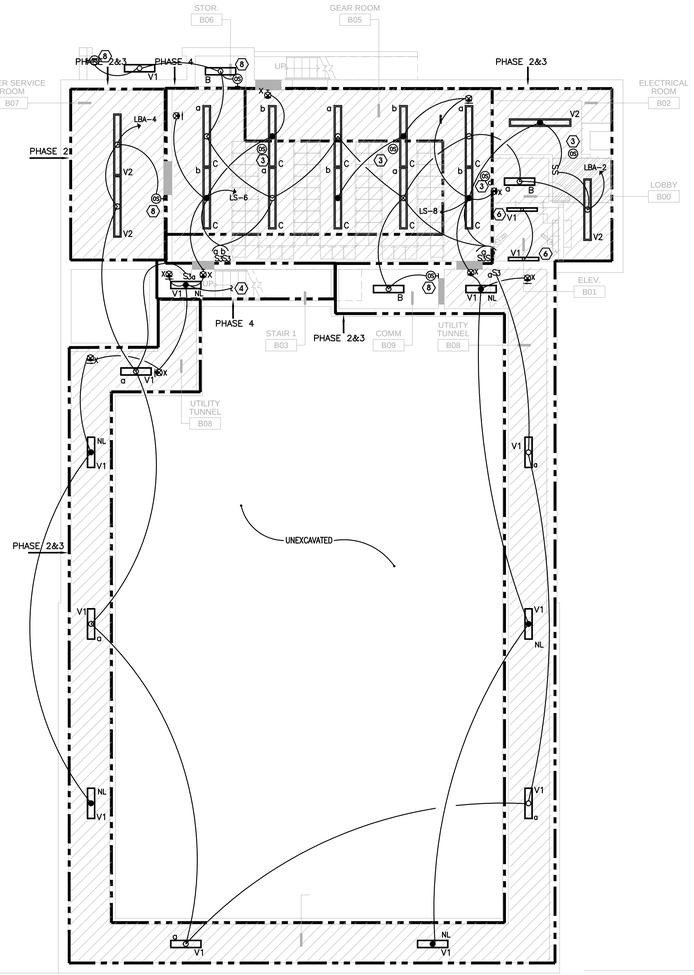
Job Title: DCFEMS Station 16

Seal

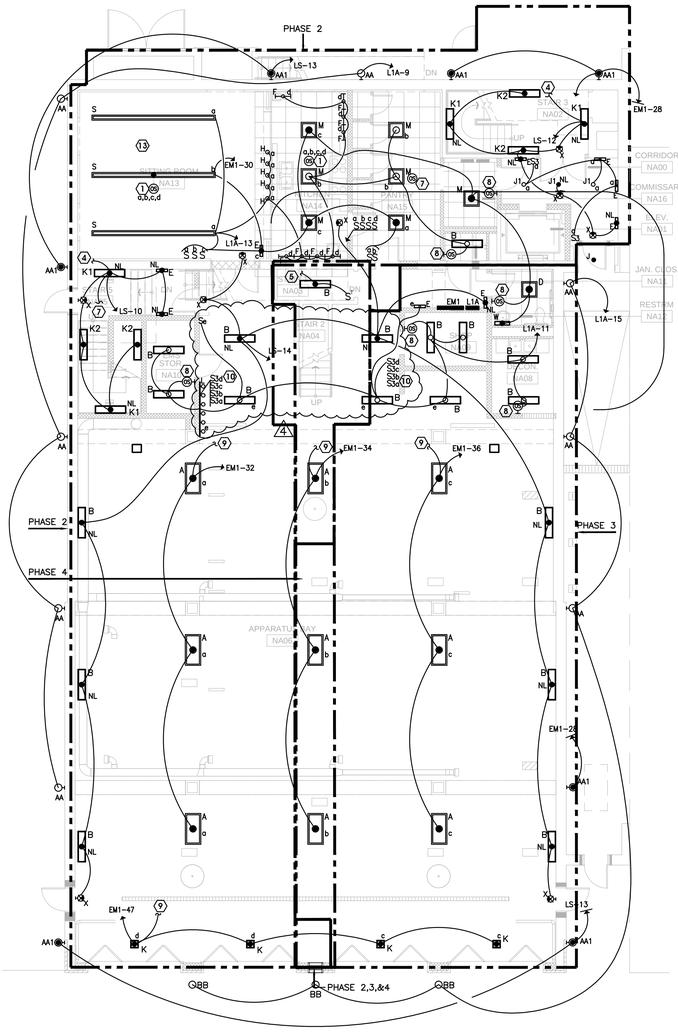
Engineer Name: Vassilis Skardis
Registration Number: 10793
Expiration Date:
Architect
Date:

Project Address: 1018 13th Street, Washington, DC 20005

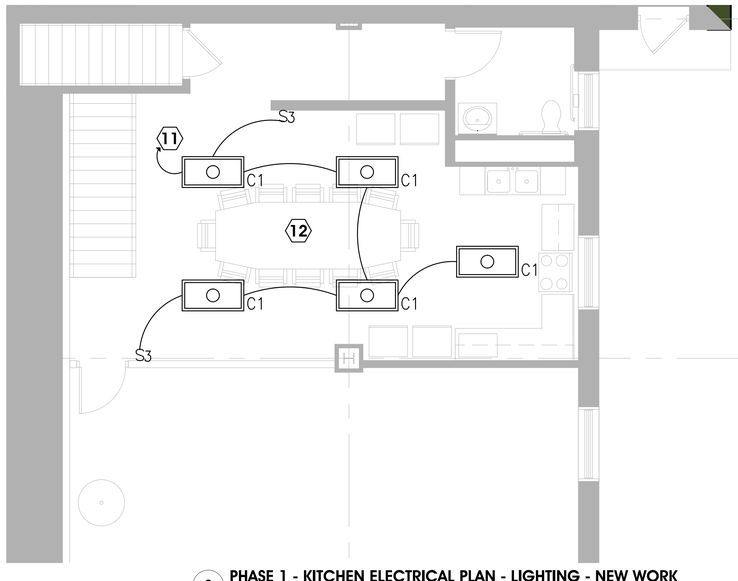
Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
Sheet	83 OF 100



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



2 **ELECTRICAL FIRST FLOOR PLAN - LIGHTING - NEW WORK**
SCALE: 1/8"=1'-0"



3 **PHASE 1 - KITCHEN ELECTRICAL PLAN - LIGHTING - NEW WORK**
SCALE: 1/4"=1'-0"

GENERAL NOTES

1. REFER TO E0.00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO SHEET E5.01 FOR POWER RISER DIAGRAM AND SHEET E4.01 FOR PANEL SCHEDULES.
3. REFER TO SHEET E2.01 FOR PANEL LOCATIONS.
4. WIRING FOR LIGHTING FIXTURES MOUNTED ON EXTERIOR WALL SHALL BE CONCEALED ROUTED INSIDE THE BUILDING IN CEILING SPACES AND FURRED WALLS.
5. FOR WIRING DIAGRAM OF WALL MOUNTED OCCUPANCY SENSOR, SEE DETAIL 1, OS-1 WIRING DIAGRAM, ON DWG. E4-02.

SPECIFIC NOTES

1. SEE DETAIL 3, OS-3A WIRING DIAGRAM, ON DWG. E4-02.
2. SEE DETAIL 4, OS-4A WIRING DIAGRAM, ON DWG. E4-02.
3. SEE DETAIL 8, OS-3B WIRING DIAGRAM, ON DWG. E4-02.
4. UP TO FLOOR ABOVE.
5. DOWN TO FLOOR BELOW.
6. ELEVATOR PIT LIGHT. SEE CONNECTION ON DWG. E2-01.
7. SEE DETAIL 2, OS-2 WIRING DIAGRAM, ON DWG. E4-02.
8. SEE DETAIL 1, OS-1 WIRING DIAGRAM, ON DWG. E4-02.
9. CONNECT TO 3-WAY SWITCH.
10. CONNECT TO LIGHTS IN APPARATUS BAY.
11. PROVIDE TEMPORARY 120V, 20A CIRCUIT WITH 3#12 FOR TEMPORARY LIGHTS DURING PHASING. RETAIN 20A BREAKERS AS SPARE AFTER USE.
12. SALVAGE TEMPORARY LIGHT FIXTURES AND RE-USE IN LATER PHASES AS NEEDED.
13. FIXTURE SHALL BE MOUNTED AT 9'-0" TO BOTTOM OF FIXTURE IN THIS AREA.

Key Plan

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2	06-17-15	ADDENDUM 4	MC, TD, TM	VS, MW, EF
1	03-26-15	DC COMMENTS	MC, TD, TM	VS, MW, EF
	01-22-15	FOR BID/PERMIT	MC, TD, TM	VS, MW, EF

PROJECT DRAWINGS: ELECTRICAL

Drawing Title: ELECTRICAL BASEMENT AND FIRST FLOOR PLANS - LIGHTING - NEW WORK

Drawing No.: E1-01

Job Title: DCFEMS Station 16

Project Address: 1018 13th Street, Washington, DC 20005

Seal
Engineer Name:
Registration Number:
Expiration Date:
Architect
Date:

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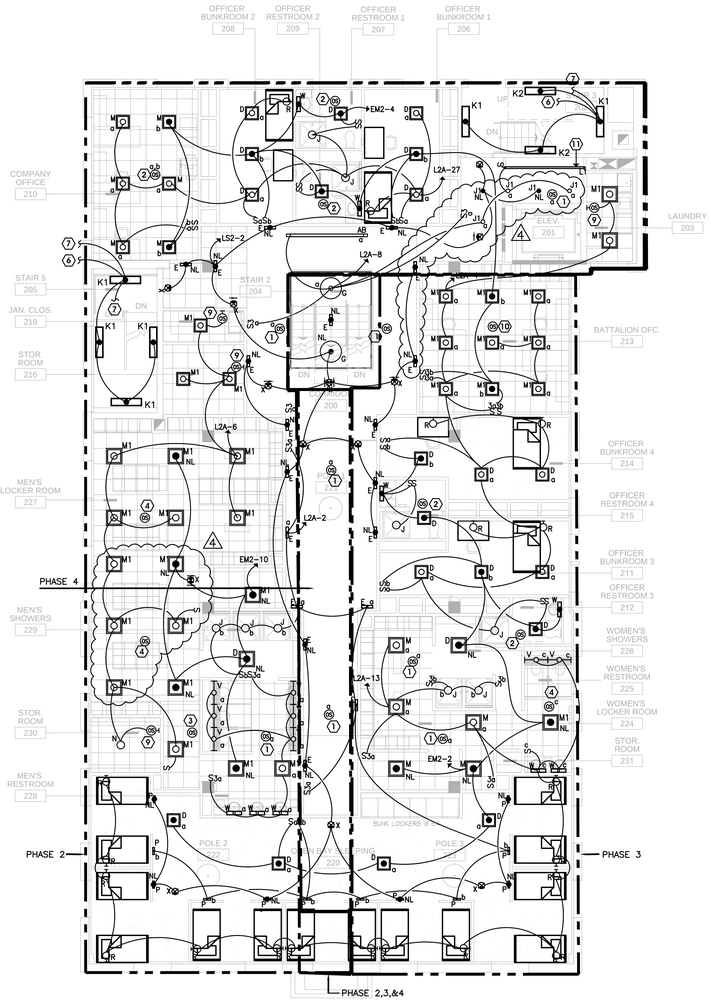
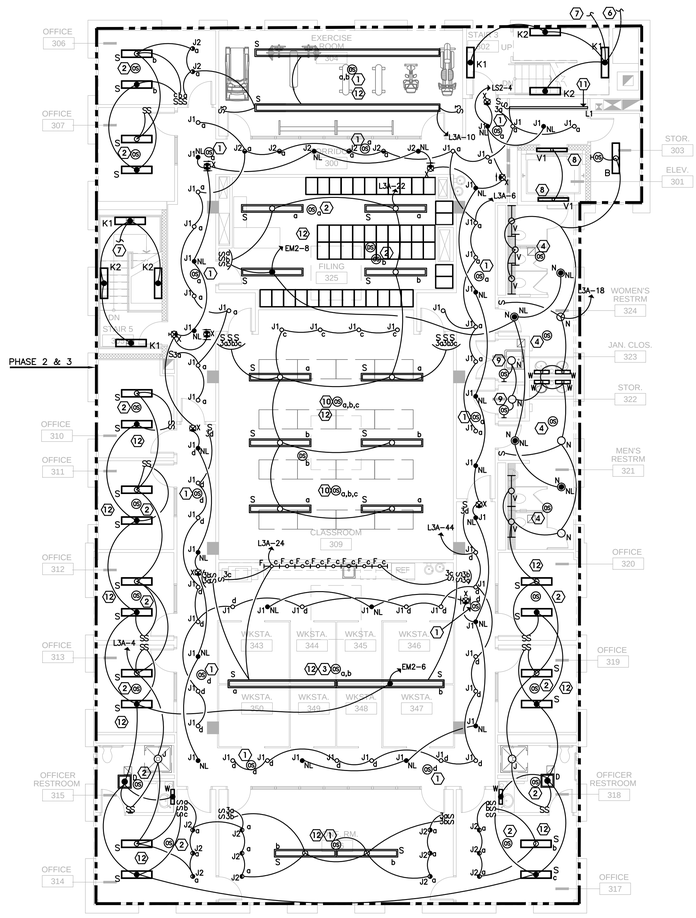
Project No. 2908.01
Issue Date 01-22-15
Sheet 88 OF 100



1 **ELECTRICAL SECOND FLOOR PLAN - LIGHTING - NEW WORK**
SCALE: 1/8"=1'-0"



2 **ELECTRICAL THIRD FLOOR PLAN - LIGHTING - NEW WORK**
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. REFER TO E0.00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO SHEET E5.01 FOR POWER RISER DIAGRAM AND SHEET E4.01 FOR PANEL SCHEDULES.
3. REFER TO SHEET E2.02 FOR PANEL LOCATIONS.
4. FOR WALL MOUNTED SENSOR SEE OS-1 WIRING DIAGRAM UON. SEE DRAWING E4.02.

SPECIFIC NOTES

(1) SEE DETAIL 9, OS-4B WIRING DIAGRAM, ON DWG. E4-02.
(2) SEE DETAIL 3, OS-3A WIRING DIAGRAM, ON DWG. E4-02.
(3) SEE DETAIL 4, OS-4A WIRING DIAGRAM, ON DWG. E4-02.
(4) SEE DETAIL 2, OS-2 WIRING DIAGRAM, ON DWG. E4-02.
(5) SEE DETAIL 8, OS-3B WIRING DIAGRAM, ON DWG. E4-02.
(6) UP TO FLOOR ABOVE.
(7) DOWN TO FLOOR BELOW.
(8) ELEVATOR SHAFT LIGHTS. SEE CONNECTION ON DWG E2-01.
(9) SEE DETAIL 1, OS-1 WIRING DIAGRAM, ON DWG. E4-02.
(10) SEE DETAIL 10, OS-3C WIRING DIAGRAM, ON DWG. E4-02.
(11) TYPE L1, DISPLAY CASE LIGHT. INSTALL ONE AT THE TOP AND ONE AT THE BOTTOM OF THE CASE. (HORIZONTALLY). FIXTURE LENGTH PER DRAWING.
(12) FIXTURE SHALL BE MOUNTED AT 8'-0" TO BOTTOW OF THE FIXTURE IN THIS AREA.

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3	03-26-15	DC COMMENTS	MC, TD, TM	VS, MW, EF
	01-22-15	FOR BID/PERMIT	MC, TD, TM	VS, MW, EF

PROJECT DRAWINGS — ELECTRICAL

Drawing Title: ELECTRICAL SECOND AND THIRD FLOOR PLANS - LIGHTING - NEW WORK
Drawing No.: E1-02

Job Title: DCFEMS Station 16

Project Address: 1018 13th Street, Washington, DC 20005

Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
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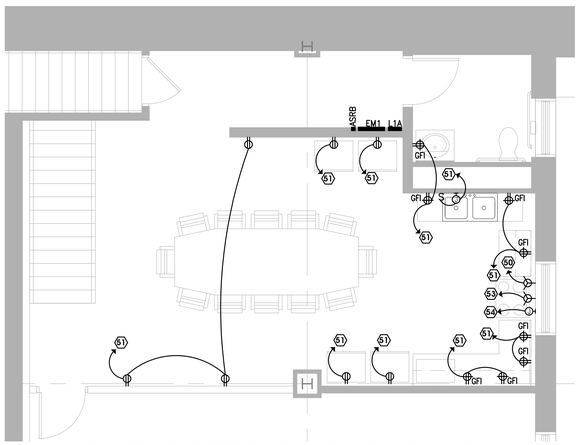
GENERAL NOTES

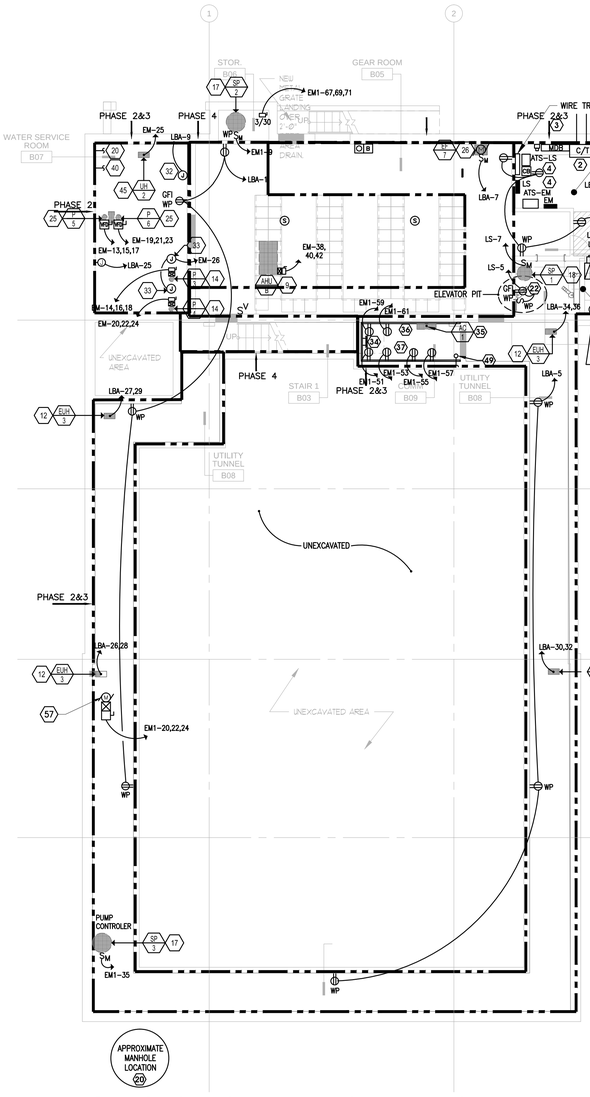
1. REFER TO E0.00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO SHEET E5.01 FOR POWER RISER DIAGRAM AND SHEET E4.01 FOR PANEL SCHEDULES.
3. PROVIDE EMPTY 3/4" CONDUIT WITH PULL WIRE FOR PA SYSTEM FROM HEAD-END EQUIPMENT AT LOBBY/WATCH DESK TO DEVICE LOCATIONS, AS REQUIRED.
4. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL KITCHEN EQUIPMENT, RECEPTACLES AND DEVICES WITH KITCHEN CONSULTANT DRAWINGS.

SPECIFIC NOTES

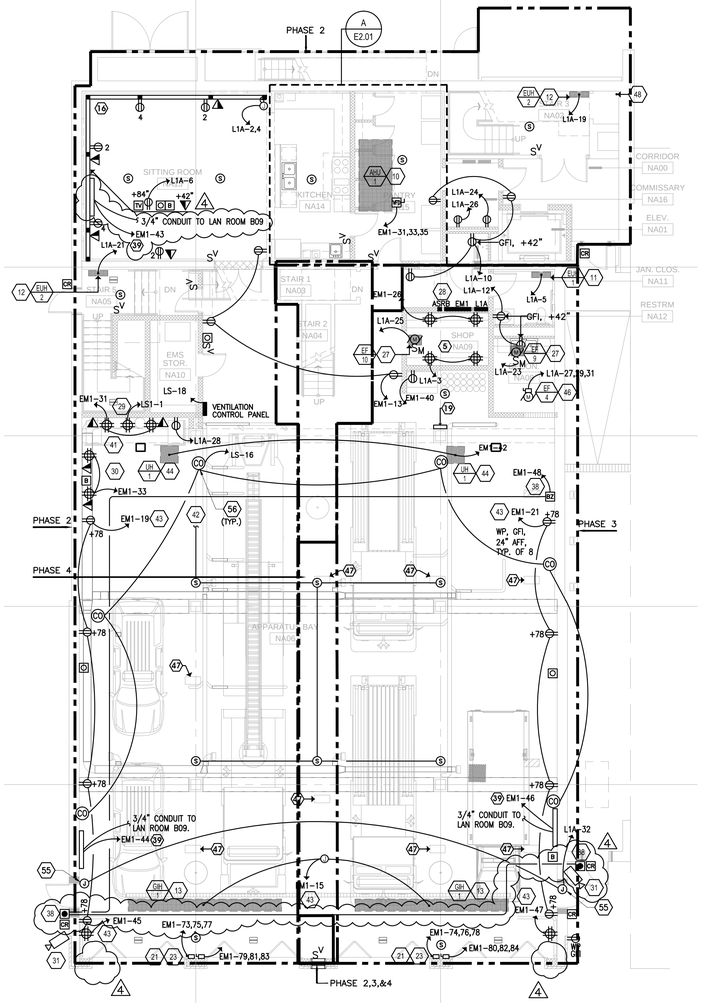
1. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS..
2. PEPCO CT CABINET AND METERING.
3. 1200A MAIN DISTRIBUTION BOARD.
4. AUTOMATIC TRANSFER SWITCH (ATS).
5. MOUNT ALL THE RECEPTACLES IN THIS ROOM ABOVE COUNTER.
6. ELEVATOR ELECTRICAL EQUIPMENT: REFER TO POWER RISER DIAGRAM ON E5.01 FOR ADDITIONAL INFORMATION. FIELD COORDINATE LOCATION OF EQUIPMENT.
7. NOTE NOT USED.
8. BAY DOOR CONNECTION:
9. AHU-B: 208V/3ø, 3/4 Hp. PROVIDE 3/4"C, 3#12, 1#12G TO NEMA 1 MOTOR STARTER WITH INTEGRAL DISCONNECT SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
10. AHU-1: 208V/3ø, 1.5 Hp. PROVIDE 3/4"C, 3#12, 1#12G TO VFD. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
11. EUH-1: 120V/1ø, 1.8 kVA. PROVIDE 3/4"C, 2#10, 1#10G TO INTEGRAL DISCONNECT SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
12. EUH-2: 208V/1ø, 3 kVA. PROVIDE 3/4"C, 2#12, 1#12G TO INTEGRAL DISCONNECT SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
13. GAS FIRED HEATER CONNECTION GIH-1: 120V/1ø, 2.6 FLA, 2#12, 1#12G IN 3/4"C. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
14. P-3 (P-4 SIMILAR): 208V/3ø, 3/4 Hp. PROVIDE 3/4"C, 3#12, 1#12G TO NEMA SIZE 1 MOTOR STARTER & 30A NF DISCONNECT SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
15. PROVIDE SHUNT TRIP FUSED DISCONNECT SWITCH FOR ELEVATOR. REFER TO POWER RISER DIAGRAM ON E5.01 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. LOCATE DISCONNECT ON THE LATCH SIDE OF DOOR.
16. 2-CHANNEL STEEL SURFACE MOUNTED RACEWAY, +18"AFF. PROVIDE 1¼" EMPTY CONDUIT STUBBED ABOVE ACCESSIBLE CEILING FOR DATA CABLING. WIREMOLD 4000 SERIES. PROVIDE WITH DEVICES AS SHOWN, ALL REQUIRED ACCESSORIES AND MOUNTING HARDWARE.
17. SUMP PUMP SP-2 & SP-3: 120V/1ø, 1 Hp. PROVIDE 3/4"C, 2#10, 1#10G TO SM/MP VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
18. SUMP PUMP SP-1: 120V/1ø, 1/2 Hp. PROVIDE 3/4"C, 2#12, 1#12G TO MOTOR RATED SWITCH/WP VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
19. STANDBY GENERATOR REMOTE ANNUNCIATOR PANEL. PROVIDE 1" EMPTY CONDUIT TO GENERATOR FOR CONTROL WIRING. VERIFY LOCATION PRIOR TO START OF WORK.
20. PROVIDE TWO 4" EMPTY CONDUIT WITH PULL STRING TO BASEMENT LEVEL LAN ROOM. FIELD COORDINATE EXACT CONDUIT ROUTING AND FINAL TERMINATIONS.
21. DOOR OPERATOR: 5 HP, 208V/3ø. PROVIDE 3/4"C, 3#10, 1#10G TO 30A NF DISCONNECT SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS INCLUDING CONTROLLER AND PUSHBUTTONS (OPEN AND CLOSE) WITH DOOR INSTALLER PRIOR TO START OF WORK.
22. PROVIDE ELEVATOR PIT LIGHTS (TYPE V1), PROVIDE 2 EACH AT BASEMENT LEVEL AND 3RD FLOOR LEVEL. LOCATE SWITCH NEAR ENTRANCE. SEE DWG E1-01 & E1-02.
23. PROVIDE OVERHEAD APPARATUS BAY DOOR PUSHBUTTONS FOR EACH DOOR FOR OPEN ONLY (NOT CLOSE). LOCATE THE DOOR PUSHBUTTONS IN COMPANY OFFICE. FIELD COORDINATE FINAL LOCATION. PROVIDE WIRING AS REQUIRED.
24. NOT USED.
25. P-5 (P-6 SIMILAR): 208V/3ø, 3 Hp. PROVIDE 3/4"C, 3#10, 1#10G TO VFD VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
26. EF-7: 120V/1ø, 1/4 Hp. PROVIDE 3/4"C, 2#12, 1#12G TO MOTOR RATED SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
27. EF-9 (EF-10 SIMILAR): 120V/1ø, 1/30 Hp. PROVIDE 3/4"C, 2#12, 1#12G TO MOTOR RATED SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
28. ASRB: 120V CONTROL RELAY IN 6"X6" NEMA BOX. ELEC. CONTRACTOR SHALL RUN LOW VOLTAGE CABLE IN 1" CONDUIT FROM ASRB PANEL TO ALERT SYSTEM HEAD-END EQUIPMENT IN BASEMENT LAN RM.
29. PA SYSTEM HEAD-END EQUIPMENT BOX AND DEDICATED RECEPTACLE, PER ALERT SYSTEM RECOMMENDATIONS.
30. COORDINATE MOUNTING LIGHTS AND LOCATIONS OF WATCH DESK DEVICES WITH ARCHITECTURAL DRAWINGS.
31. PROVIDE 1" EMPTY CONDUIT WITH PULL WIRE TO SECURITY ROOM(TYPICAL)
32. FOR DAMPER, 3/4"C IN 2#12, 1#12G.
33. FOR BOILERS B1 AND B2, 3/4"C IN 2#12, 1#12G
34. PROVIDE GROUNDING BUSBAR AND CONNECT TO BUILDING GROUND VIA #6 INSULATED GROUND WIRE IN 3/4" CONDUIT TO BUILDING MAIN GROUNDING SYSTEM.
35. AC-1/AC-2 ;PROVIDE 2#12, 1#12G IN 3/4"C FOR CONNECTION TO CU ON ROOF AND 30A NF DISC SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.
36. PROVIDE 48"W x 8'H x 3/4" THICK FIRE RETARDANT TREATED PLYWOOD BACKBOARD ON ENTIRE SURFACE OF EACH WALL, PAINTED WHITE.
37. PROVIDE TWO 1/2" CABLES TO ROOF ANTENNAS. COORDINATE IN FIELD.



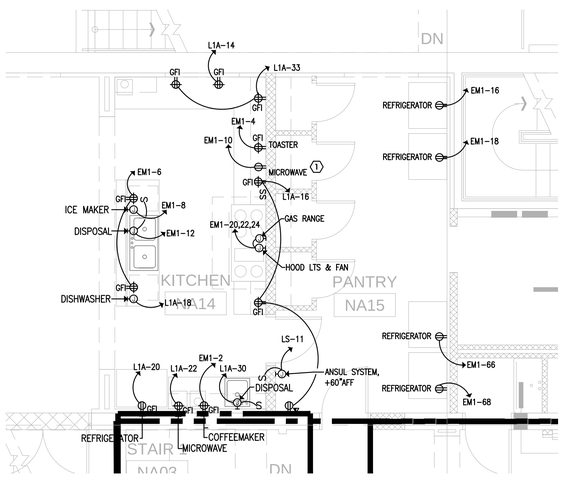
4 **PHASE 1 - KITCHEN ELECTRICAL PLAN - POWER - NEW WORK**
SCALE: 1/4"=1'-0"



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



2 **ELECTRICAL FIRST FLOOR PLAN - POWER - NEW WORK**
SCALE: 1/8"=1'-0"



3 **KITCHEN ELECTRICAL PLAN**
SCALE: 1/4"=1'-0"

SPECIFIC NOTES (CON.)

53. NEW ELECTRICAL RANGE.53. COORDINATE ELECTRICAL REQUIREMENT OF ELECTRIC RANGE. FOR A MAXIMUM OF 12KW UNIT, PROVIDE 2# 6. 1#8, 3/4" C. PROVIDE 50A/2P CIRCUIT BREAKER PANEL L1A OTHERWISE PROVIDE WIRING AND CIRCUIT BREAKER REQUIRED (SEE PANEL SCHEDULE). RETAIN BREAKER AS SPA.
54. NEW ELECTRICAL HOOD.
55. MOTORIZED DAMPER.
56. CARBON MONOXIDE, FURNISHED UNDER MECHANICAL.
57. COMPRESSOR, 1HP, 208V/3. PROVIDE 3/4C", 3#12,1#12G. PROVIDE NEMA 1 STARTER WITH 30A NONE FUSED DISCONNECT SWITCH.
58. OIL MINDER, FIELD COORDINATE EXACT LOCATION.
59. ELECTRICAL CONTRACTOR TO PROVIDE GROUND BAR, 1/4" THICK X 4"W COPPER BAR ON TWO OPPOSING WALLS. CONNECT GROUND BARS WITH 3/4C", 1#4,/0G TO MAIN DISTRIBUTION BOARD MDP SERVICE GROUND. SEE DWG. E5-01

SPECIFIC NOTES (CON.)

47. PROVIDE CEILING MOUNTED JUNCTION BOX WITH 20A NYLON SO CORD THAT EXTENDS 14' TO FLOOR BELOW. PROVIDE HUBBELL HBL6334CCN OR APPROVED EQUAL. FIELD COORDINATE EXACT LOCATION AND CORD LENGTH. FEED FROM 20A, 120V BREAKER IN PANEL EM1.
48. APPROXIMATE LOCATION OF GENERATOR FEEDER. FIELD COORDINATE EXACT LOCATION.
49. PROVIDE ONE 2" EMPTY CONDUIT WITH PULL STRING TO THE ATTIC. ROUTE AS STRAIGHT AS POSSIBLE. FIELD COORDINATE EXACT CONDUIT ROUTING AND FINAL TERMINATIONS.
50. PROVIDE 2#12,1#12 G, 3/4"C BRANCH CIRCUIT FOR TEMPORARY AC (TO BE FURNISHED BY OWNER, TAKEN FROM STORAGE SOMEWHERE ELSE). BEFORE INSTALLING AC, PERFORM INSULATION TEST, CONTINUITY, VISUAL AND MECHANICAL INSPECTION OF AC AS STATED IN NETA ACCEPTANCE TESTING. CORRECT MALFUNCTIONING UNIT AS REQUIRED PRIOR USE. BEFORE CONNECTION FIELD COORDINATE EXACT VOLTAGE AND AMPERE REQUIREMENTS. FOR 208V/1-PH UNIT, USE TWO ADJACENT 20A/1P CIRCUIT BREAKERS FROM PANEL INDICATED AND PROVIDE A TEMPORARY COMMON TRIP BAR ; FOR 120V USE 20A/1P BREAKERS. HOWEVER, SHOULD TEMPORARY AC IS 30A PROVIDE 30A BREAKER EITHER 30A/1P OR 30A/2PTO SUIT AC AND PROVIDE 2#10.1310 G, 3/4" C. IN BOTH CASES BREAKER USED AS TEMPORARY BREAKER SHALL BE USED FOR FINAL WIRING OR AS SPARE
51. PROVIDE TEMPORARY 120V, 20A CIRCUIT FROM PANEL L1A FOR RECEPTACLES DURING PHASING. RETAIN AND RE-USE 20A BREAKERS AS NEEDED FOR FINAL WIRING AFTER DEMOLITION OF TEMPORARY PHASE 1 KITCHEN.
52. NOT USED.

SPECIFIC NOTES (CON.)

58. PROVIDE BUZZER AND PUSH BUTTON FOR LOCAL DOOR BELL SYSTEM.
59. POWER AND COMMUNICATION TO THE READER BOARDS AS SHOWN.
40. RUN 3/4" EMPTY CONDUIT WITH PULL STRING FOR COAX CABLES TO LAN ROOM ON THIS FLOOR.
41. STATION ALERTING CONTROL PANEL (24"X30"X7"). PROVIDE POWER AND DATA CONNECTION FROM BASEMENT LAN ROOM. COORDINATE WITH ALERTING SYSTEM CONTRACTOR.
42. TO OTHER ALERTING SYSTEM SPEAKERS. ROUTE CONDUITS EXPOSED IN CEILING SPACE IN AN ORDERLY MANNER AND COMBINE WITH OTHER CONDUITS IN A COMMON CHANNEL. SEE NOTE 43.
43. ROUTE ALL EXPOSED CONDUITS IN AN ORDERLY MANNER AND DESIGNATE A COMMON CEILING AREA TO ROUTE ALL CONDUITS. COORDINATE WITH ARCHITECT PRIOR TO ROUGH AND INSTALLATION OF SURFACE MOUNTED CONDUITS IN THE APPARATUS BAY. TYPICAL FOR ALL CONDUITS OF ALL SYSTEMS.
44. UH-1: 120V/1ø, 1/20 Hp. PROVIDE 3/4"C, 2#12, 1#12G. PROVIDE A MOTOR RATED SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
45. UH-2: 120V/1ø, 1/10 Hp. PROVIDE 3/4"C, 2#12, 1#12G. PROVIDE A MOTOR RATED SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
46. EF-4: 120V/3ø, 1 Hp. PROVIDE 3/4"C, 3#12, 1#12G TO COMBINATION NEMA 1 STARTER / 30A NF DISC SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

Key Plan

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Designed: MC, TD, TM
Drawn : MC, TD, TM
Checked: VS, MW, EF

Revision	Date	Description	By	App
2	06-17-15	ADDENDUM 4	MC, TD, TM	VS, MW, EF
1	03-26-15	DC COMMENTS	MC, TD, TM	VS, MW, EF
	01-22-15	FOR BID/PERMIT	MC, TD, TM	VS, MW, EF

PROJECT DRAWINGS — ELECTRICAL

Drawing Title: ELECTRICAL BASEMENT AND FIRST FLOOR PLANS - POWER - NEW WORK

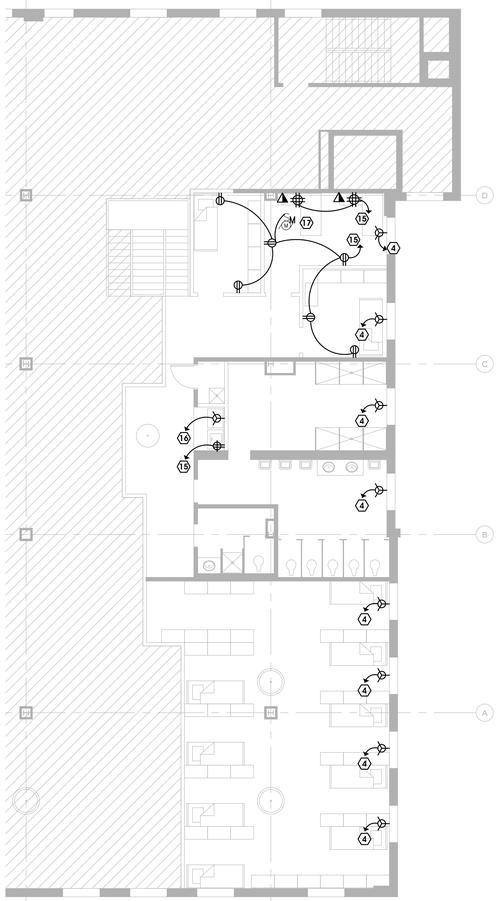
Drawing No.: E2-01

Job Title: DCFEMS Station 16

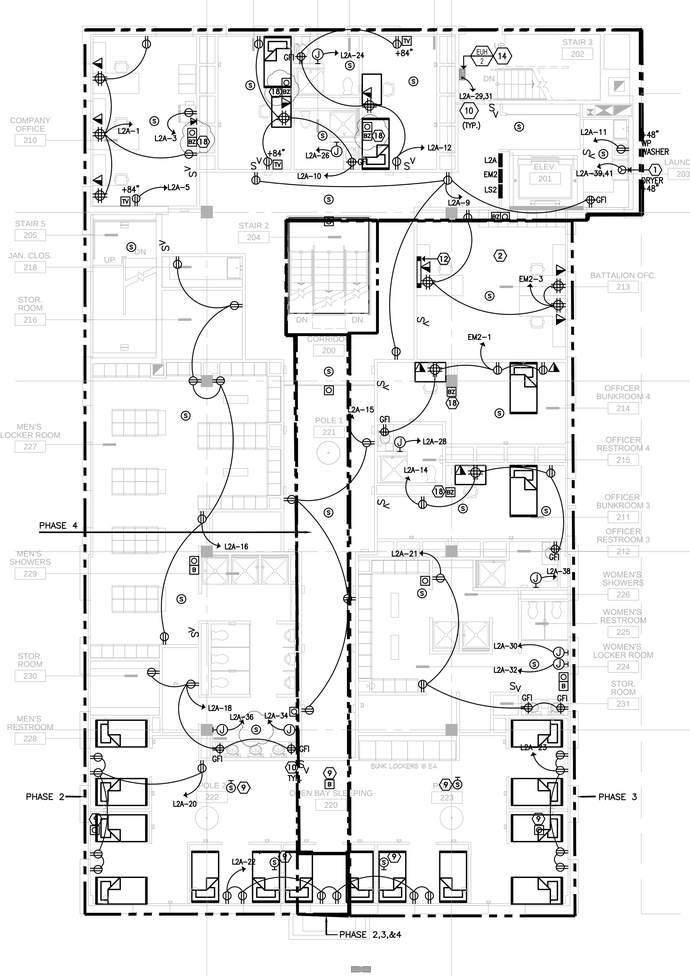
Project Address: 1018 13th Street, Washington, DC 20005

Seal
Engineer Name:
Registration Number:
Expiration Date:
Architect
Date:

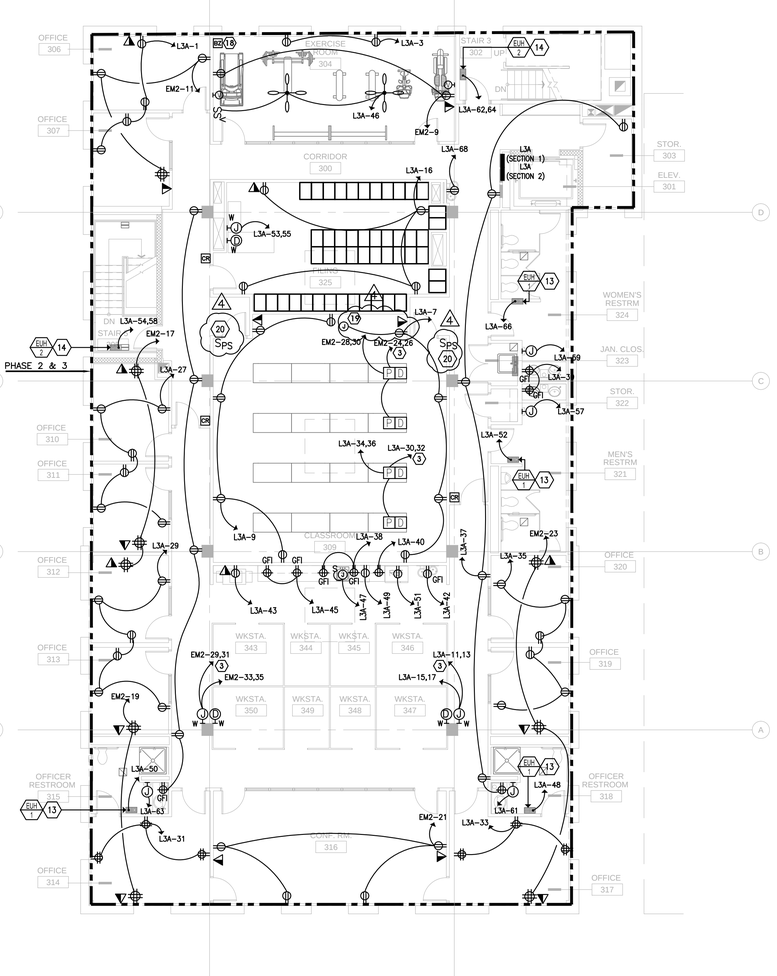
Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
Sheet	91 OF 100



A ELECTRICAL SECOND FLOOR PLAN - PHASE 1 - BUNK ROOM PLAN
SCALE: 1/8"=1'-0"



1 ELECTRICAL SECOND FLOOR PLAN - POWER - NEW WORK
SCALE: 1/8"=1'-0"



2 ELECTRICAL THIRD FLOOR PLAN - POWER- NEW WORK
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. REFER TO E0.00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO SHEET E5.01 FOR POWER RISER DIAGRAM AND SHEET E4.01 FOR PANEL SCHEDULES.
3. COORDINATE FINAL LOCATION OF SYSTEMS FURNITURE WITH FURNITURE SUPPLIER PRIOR TO ROUGH-IN AND INSTALLATION OF ELECTRICAL SYSTEMS. ADJUST ELECTRICAL DEVICE LAYOUT IF THE FINAL FURNITURE SYSTEM LAYOUT DIFFERS FROM WHAT IS SHOWN.
4. SYSTEMS FURNITURE FEED IS A 8-WIRE SYSTEM (4 PHASE, 2 NEUTRALS, 2 GROUNDS). VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND FURNITURE SUPPLIER PRIOR TO ROUGH-IN. ADJUST CIRCUITING AS REQUIRED.
5. CORE DRILLS FOR SYSTEM FURNITURE FEEDS: VERIFY LOCATION WITH SYSTEMS FURNITURE INSTALLER AND STRUCTURAL ENGINEER PRIOR TO CORING AND INSTALLATION.
6. PROVIDE EMPTY 3/4" CONDUIT FOR PA SYSTEM FROM HEAD-END EQUIPMENT AT LOBBY/WATCH DESK TO DEVICE LOCATIONS, AS REQUIRED.
7. PROVIDE WIREMOLD 4000 FOR ALL DATA AND RECEPTACLES LOCATED ON EXTERIOR WALLS. SEE SPECIAL NOTE #12.
8. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL KITCHEN RECEPTACLES AND DEVICES WITH KITCHEN CONSULTANT DRAWINGS.

SPECIFIC NOTES

(1) DRYER: 30A@240/208V, 1ø. PROVIDE 3/4"C, 2#10, 1#10G. VERIFY RECEPTACLE REQUIREMENTS WITH ACTUAL EQUIPMENT PROVIDED.

(2) SEE PART PLAN A ON THIS SHEET FOR PHASE 1 TEMPORARY CIRCUITING IN THIS AREA.

(3) PROVIDE NUMBER OF CONDUCTORS AND NUMBER OF 3/4"C TO MATCH SYSTEM FURNITURE PROVIDED. EACH 3/4"C CONDUIT SHALL NOT HAVE MORE THAN 5 #10 CONDUCTORS INCLUDING GROUND. ALSO SEE GENERAL NOTE NO.3

(4) PROVIDE TEMPORARY NEMA 6-20R, 208V, 20A CIRCUIT ON PANEL L2A WITH 3#12 FOR WINDOW A/C UNIT DURING PHASING. FIELD COORDINATE EXACT REQUIREMENTS. RETAIN 20A/2P BREAKER AS SPARE AFTER USE.

(5) NOT USED.

(6) NOT USED.

(7) ALERT SYSTEM RECEPTACLES ON DEDICATED EMERGENCY CIRCUITS, AS PER ALERT SYSTEM RECOMMENDATIONS.

(8) PROVIDE 48"W X 96"H X 3/4" THICK FIRE RETARDANT TREATED PLYWOOD BACKBOARD ON ENTIRE SURFACE OF EACH WALL. PAINTED WHITE.

(9) ALERTING SYSTEM LIGHTS, BELL AND SPEAKERS ARE MOUNTED ON THE SOFFIT. SEE ARCHITECTURAL DRAWINGS.

(10) MOUNT ALERTING SYSTEM VOLUME CONTROL OUTLETS ADJACENT TO LIGHT SWITCHES AND AT THE SAME ELEVATION. TYPICAL FOR ALL VOLUME CONTROL OUTLETS.

(11) RUN 2" EMPTY CONDUIT WITH PULL STRING FROM THE LAN ROOM TO 2ND FLOOR LAN ROOM. COORDINATE WITH TELECOM CONSULTANT FOR TERMINATION POINTS.

(12) 2-CHANNEL STEEL SURFACE MOUNTED RACEWAY, +18"AFF. PROVIDE 1-1/2" EMPTY CONDUIT STUBBED ABOVE ACCESSIBLE CEILING FOR DATA CABLING. WIREMOLD 4000 SERIES, PROVIDE WITH DEVICES AS SHOWN, ALL REQUIRED ACCESSORIES AND MOUNTING HARDWARE.

(13) EUH-1: 120V/1ø, 1.8 kVA. PROVIDE 3/4"C, 2#10, 1#10G TO INTEGRAL DISCONNECT SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

(14) EUH-2: 208V/1ø, 3 kVA. PROVIDE 3/4"C, 2#12, 1#12G TO INTEGRAL DISCONNECT SWITCH. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

(15) PROVIDE TEMPORARY 120V, 20A CIRCUIT FROM PANEL L2A FOR RECEPTACLES DURING PHASING. RETAIN 20A BREAKERS FOR USE FOR FINAL WIRING ACCORDINGLY OR AS SPARE AFTER USE.

(16) PROVIDE 208V, 30A CIRCUIT FROM PANEL L2A WITH 2#10, 1#10G, 3/4C" FOR DRYER DURING PHASING.(SEE PANEL SCHEDULE RETAIN 30A/2P BREAKER AS SPARE AFTER USE.

(17) EXHAUST FAN.

(18) PROVIDE ALERT LED BELL. (4)

(19) PROVIDE ABOVE CEILING JUNCTION BOX FOR PROJECTOR SCREEN. MAKE ALL FINAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATION.

(20) WALL MOUNTED CONTROLS FOR PROJECTOR SCREEN. PROVIDE RECESSED DEVICE BOX AND 3/4" EMPTY CONDUIT WITH PULL WIRE STUBBED UP AND TURN 90° INTO ACCESSIBLE CEILING SPACE. MAKE ALL FINAL CONNECTIONS PER PROJECTOR SCREEN MANUFACTURER'S RECOMMENDATIONS.

Key Plan

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	01-22-15	FOR BID/PERMIT	MC, TD, TM	VS, MW, EF

PROJECT DRAWINGS — ELECTRICAL

Drawing Title: ELECTRICAL SECOND AND THIRD FLOOR PLANS - POWER - NEW WORK

Drawing No.: E2-02

Job Title: DCFEMS Station 16

Project Address: 1018 13th Street, Washington, DC 20005

Seal
Engineer Name:
Registration Number:
Expiration Date:
Architect
Date:

Building ID No.	934
Project No.	2908.01
Issue Date	01-22-15
Sheet	92 OF 100