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HENDERSON COUNTY SCHOOLS INVESTING IN EXCELLENCE

JEFFERSON ELEMENTARY SCHOOL

800 S. Alves Street,
Henderson, Kentucky 42420

KDE Project No. BG 19-068
Architect Project No. 1807-244

Date: October, 2019

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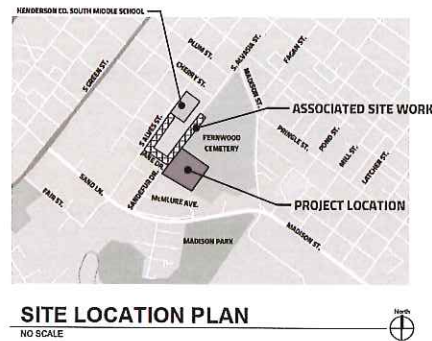
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Board Attorney Mrs. Elizabeth Bird

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Volume II

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SITE LOCATION PLAN
NO SCALE

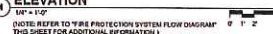
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- (091) 8" INCOMING FIRE LINE. PROVIDE TO SITE C&A PLANS FOR CONNECTION. DASHED LINE INDICATES PLUMPED BACK LINE.
- (092) 8" FIRE PROTECTION LINE TO FIRE DEPARTMENT CONNECTION. PROVIDE TO SITE C&A PLANS FOR CONNECTION AND FOR CONNECTION. DASHED LINE INDICATES PLUMP BACK ABOVE GRADE.
- (093) PROVIDE ABOVE GRADE AIR ON OUTSIDE OF BUILDING PER PERMITS.
- (100) VERTICAL DOUBLE CHECK VALVE ASSEMBLY WITH BOMBED OUTLET VALVES.
- (101) DISCHARGE TO NEAREST FLOOR DRAIN.
- (102) 10" PRESSURE RISING PIPE. INSTALL PER MFA REQUIREMENTS.
- (103) PROVIDE COMPLETE FLASH BLOC AT GRADE.
- (104) FIRE PLUMP TEST CONNECTION.
- (105) FIRE PLUMP (PFI) CONTROLLER. PROVIDE SUPPORT STRUCTURE AS REQUIRED.
- (106) JOCKEY PLUMP (PFI) CONTROLLER. PROVIDE SUPPORT STRUCTURE AS REQUIRED.
- (107) 8" FIRE PROTECTION DRAIN.

FIRE PROTECTION SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	NEW FIRE
	PRESSURE GAUGE (WITH BALL VALVE)
	SHUTOFF VALVE
	AUTOMATIC DRAIN VALVE
	FIRE PROTECTION
	FLOW SWITCH
	BUTTERFLY VALVE
	OSSV VALVE
	MONITORING SWITCH
	FIRE DEPARTMENT CONNECTION
	FIRE PUMP TEST HEADER
	CHECK VALVE
	PRESSURE RISER VALVE
	ANGLE VALVE

THE SYMBOLS AND THE MATERIALS LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS WHETHER SPECIFIED OR NOT.

CATALOG NAMES AND NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NAMES AND

[illegible]

A. FLOW SWITCH, WAIR TYPE FOR USE ON WET FIRE SPRINKLER SYSTEMS TO DETECT A MINIMUM FLOW OF 10 GPM. TWO INCH FOLD-BACK VALVE SWITCHES WITH INSULATING RINGS, ADJUSTABLE FROM 0-40 SECONDS WITH AUTOMATIC RESET, TAMPER RESISTANT METAL HOUSING. ULFV. MAHFFY FEATURES & CATALOG NO.: SYSTEM REQUIREMENTS: 1.5" NPT, 10 GPM, 100 PSI.

B. 2" 10" TO 2" 20" RP, OAS, PLATED OR GROOVED, IRON BODY, BRONZE MOUNTED RESILIENT WEAR, RISING STEEL, COUNTER CLOCKWISE TO OPEN, ULFV. MAHFFY FEATURES & CATALOG NO.: MULLER RP-320-B. CLOW # 417, STITCHING CO-818. CRANE #17.

C. FLOW SWITCH, ELECTRIC, ONE SHOCK POLE, COILS THROUGH VALVE. ULFV. MAHFFY FEATURES & CATALOG NO.: SYSTEM PARTS WITH #BOLTS FOR MOUNTING. ULFV. VERIFY ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION. MAHFFY FEATURES & CATALOG NO.: SYSTEM

HYDRANT FLOW DATA	
SOURCE:	HYDRANT #271
DATE OF TEST:	08/23/19
STATIC PRESSURE:	48 PSI
RESIDUAL PRESSURE:	40 PSI
FLOW:	610 GPM

Telephone: 270.629.6476

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Designed By:	Drawn By:	Checked By:
CSM	CSM	JTP

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project's contract documents with stamped and sealed certification and applicable approved modifications.

Sheet title: **ENLARGED FIRE PROTECTION PLAN AND NOTES**

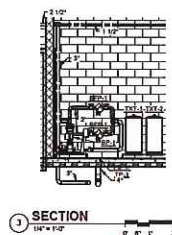
Architect's Project No: _____ Date: _____

1807-244 October, 2019

ED1 2

FP1 2

11.1.2



SECTION


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1807-244 October, 2019

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P1.4

PLAN NOTES:

- (P1) 1/2" CW, 1/2" HW FROM BELOW.
- (P2) 3" WASTE DOWN, ROUTE WASTE FROM SINKS HORIZONTALLY IN WALL TO WASTE RISER.
- (P3) 1/2" CW, 1-1/2" WASTE DOWN.
- (P4) 2" WASTE DOWN.
- (P5) 8" VENT UP AND DOWN, 8" VENT THRU ROOF.
- (P6) 4" WASTE DOWN.
- (P7) 3/4" HW, 3/4" CW FROM BELOW.
- (P8) 3/4" CW FROM BELOW.
- (P9) 2" CW FROM BELOW TO SERVE FIXTURES IN CHASE.
- (P10) 1/2" HW FROM BELOW TO SERVE FIXTURES IN CHASE.
- (P11) 2" WASTE UP TO FLOOR DRAIN ON MECHANICAL PLATFORM.
- (P12) 2" WASTE DOWN, ROUTE WASTE FROM SINK HORIZONTALLY IN WALL TO WASTE RISER.
- (P13) DASHED LINE INDICATES MECHANICAL PLATFORM A.
- (P14) 2" VENT DOWN IN CHASE FIXTURES.
- (P15) 1-1/2" VENT DOWN.
- (P16) 3/4" CW UP TO HOSE BIB ON MECHANICAL PLATFORM A.
- (P17) 4" VENT DOWN.
- (P18) 1-1/2" VENT DOWN.
- (P19) 3/4" CW, 1/2" HW FROM BELOW.
- (P20) PROVIDE SHUT-OFF VALVE IN VERTICAL.

NEW ELEMENTARY SCHOOL



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Skinner Design Associates
121 Second Street
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Revisions:		Description	Date
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10			

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Drawn By: CSM
Checked By: JTP

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Sheet Title:

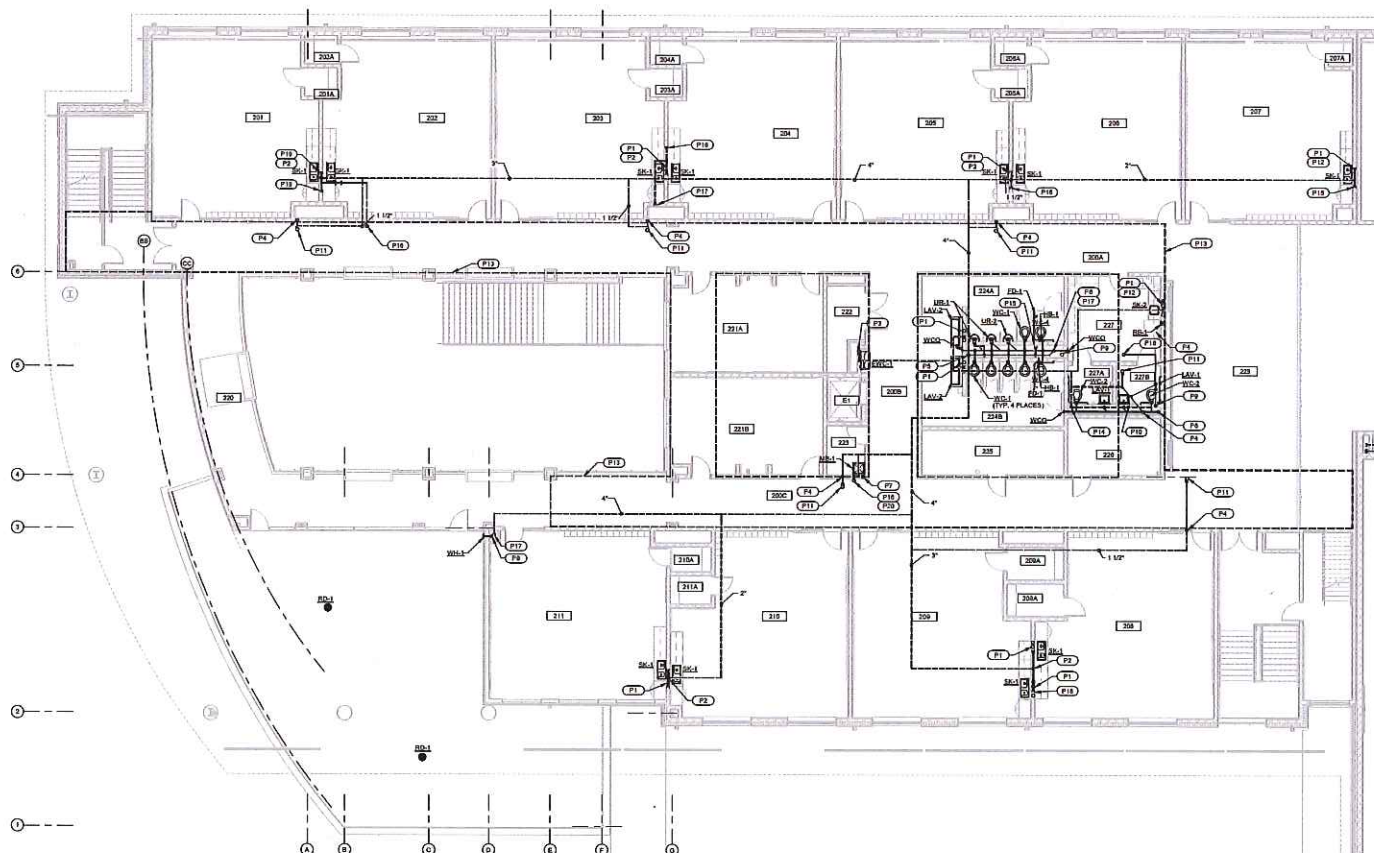
SECOND FLOOR PLUMBING PLAN

Architect's Project No: 1807-244

Date: October, 2019

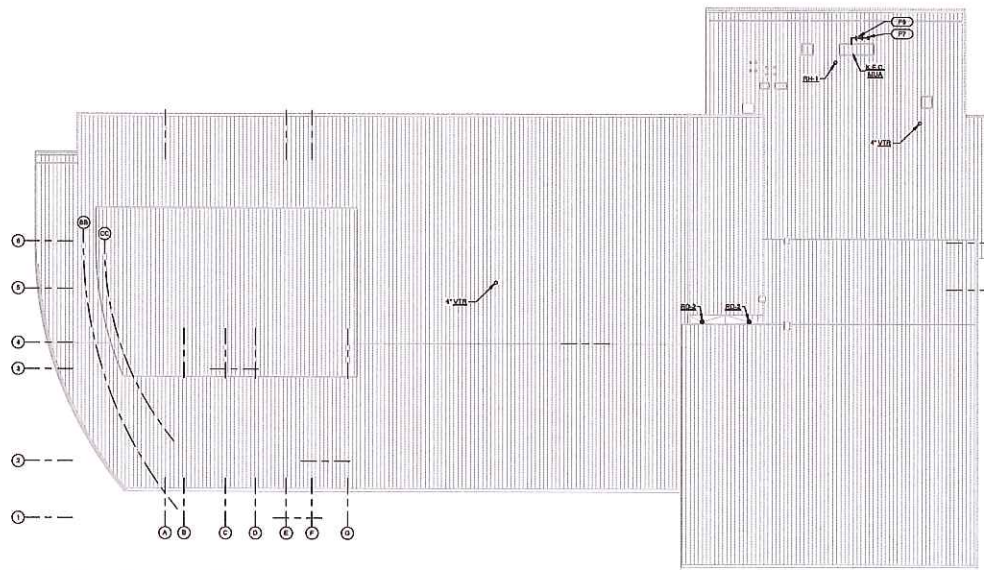
Drawing No:

P1.5

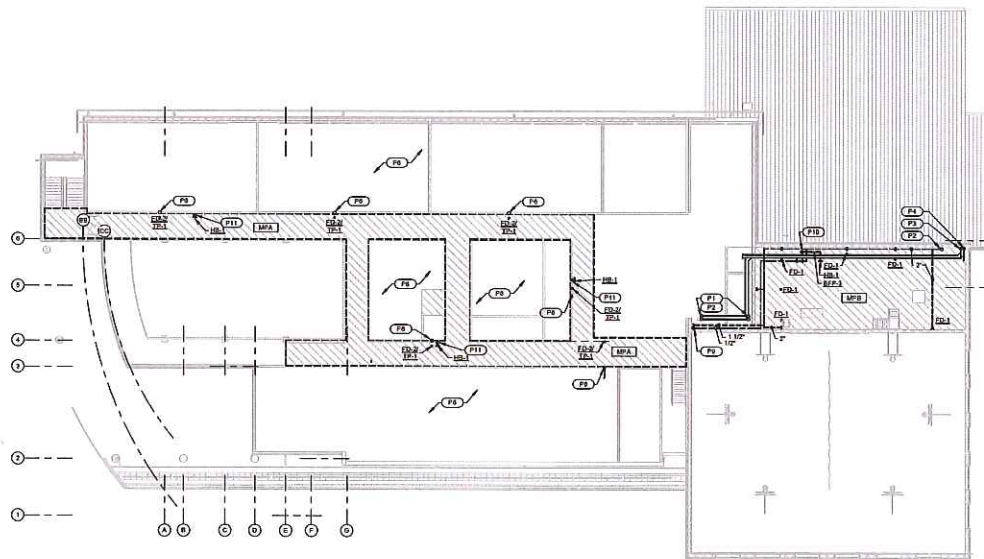


SECOND FLOOR PLUMBING PLAN - AREA A

1/8" = 1'-0"



ROOF PLUMBING PLAN - AREA B
1/16" = 1'-0"



MECHANICAL PLATFORM PLUMBING PLAN
1/16" = 1'-0"

PLAN NOTES:

- (P1) 4" STORM UP TO RD.2.
- (P2) 4" STORM OVERFLOW UP TO RD.2.
- (P3) 4" STORM DRAIN.
- (P4) 4" STORM OVERFLOW DRAIN.
- (P5) 4" VENT DRAIN, 4" VENT THROUGH ROOF.
- (P6) REFER TO "SECOND FLOOR PLUMBING PLAN" ON SHEET P1.6 FOR VENTED IN AREA A.
- (P7) 1" GAS DRAIN.
- (P8) 1" GAS TO K.E.G. PROVIDED MAKE-UP AIR UNIT. PROVIDE WITH SHUT-OFF VALVE, DIRT SED AND SINK.
- (P9) 1/2" CW, 1-1/2" VENT DOWN TO ELECTRIC WATER COOLER.
- (P10) 1" CW DRAIN.
- (P11) 3/4" CW DRAIN.

NEW ELEMENTARY SCHOOL



800 S. Altes Street
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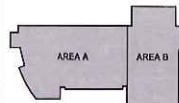
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Sheet Title:
**MECHANICAL PLATFORM
AND ROOF PLUMBING PLANS**

Architect's Project No: 1807-244
Date: October, 2019

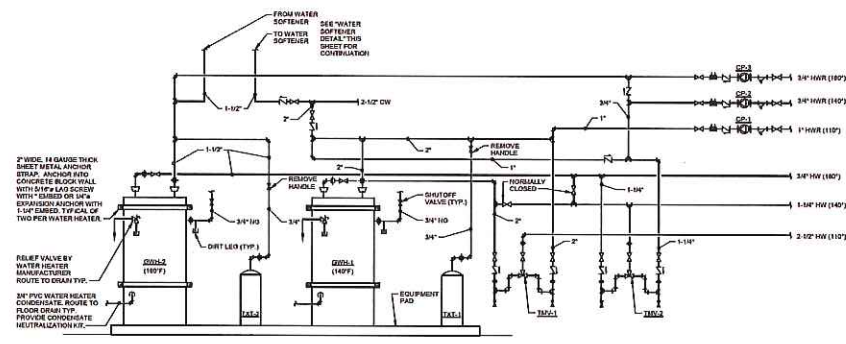
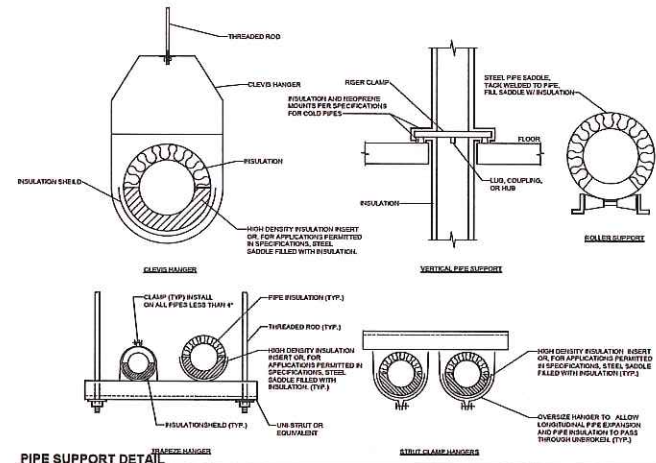
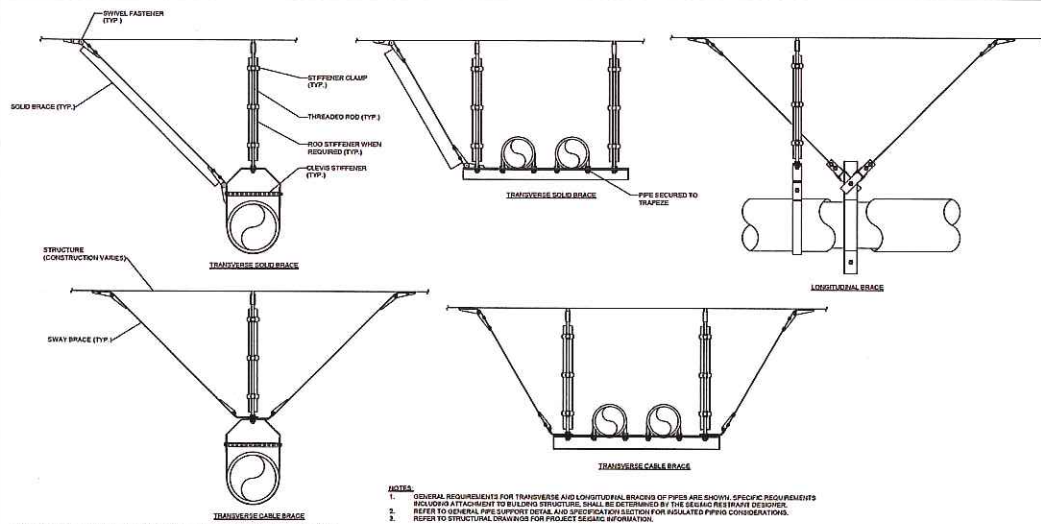
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P1.6

MI WATER BOTTLE FILLING STATION



P1.7



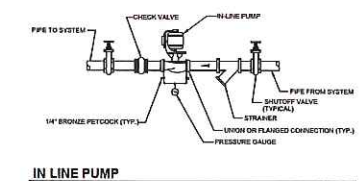
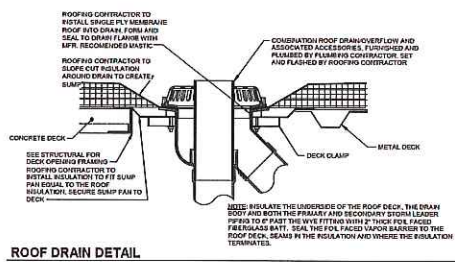
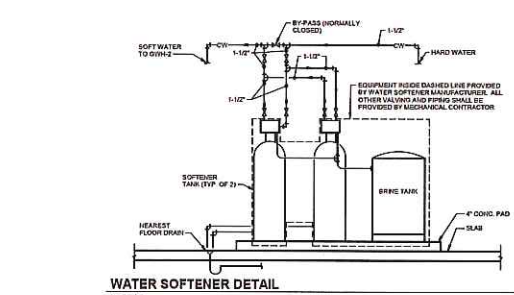
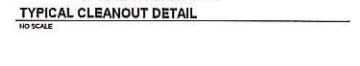
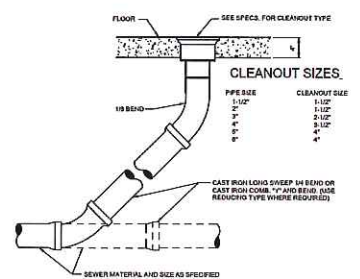
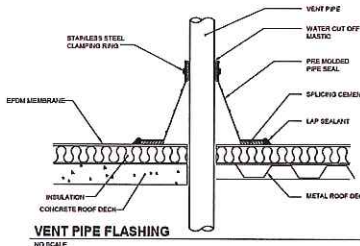
DOMESTIC HOT WATER CIRCULATING PUMP SEQUENCE OF OPERATION

THE PUMP SHALL BE CONTROLLED BY A DEDICATED DIGITAL CONTROLLER. THE CONTROLLER SHALL BE PROVIDED BY THE BUILDING MANAGEMENT SYSTEM (BMS) CONTRACTOR AND CONNECTED TO THE BMS. THE PUMP SHALL BE PROGRAMMED TO OPERATE ON AN OCCUPANCY SCHEDULE. THE OCCUPANCY SCHEDULE SHALL BE ADJUSTABLE AT THE OPERATOR INTERFACE.

UNOCCUPIED MODE:
THE CONTROLLER SHALL SHUT DOWN THE PUMP WHEN THE BMS DETERMINES OCCUPANCY IS FALSE. DURING UNOCCUPIED MODE, THE PUMP(S) SHALL BE PROGRAMMED TO OPERATE FROM AN AGENT. WHEN THE AGENT INDICATES HOT WATER RETURN TEMPERATURE IS BELOW 10°F (10°F FOR THE 1ST LOOP, 10°F (10°F) FOR THE 1ST LOOP, AND 10°F (10°F) FOR THE 1ST LOOP, THE PUMP(S) SHALL BE INDEXED ON. WHEN THE AGENT INDICATES HOT WATER RETURN TEMPERATURE REACHES 10°F (10°F) FOR THE 1ST LOOP, 10°F (10°F) FOR THE 1ST LOOP, AND 10°F (10°F) FOR THE 1ST LOOP, THE PUMP(S) SHALL BE INDEXED OFF.

OVERRIDE MODE:
THE CONTROLLER SHALL SHUT DOWN OVERRIDE MODE WHEN THE BMS DETERMINES OCCUPANCY IS FALSE VIA THE OCCUPANCY SCHEDULE AND AN OCCUPANCY SENSOR INDICATES OCCUPANCY IS TRUE. DURING OVERRIDE MODE, THE PUMP SHALL BE PROGRAMMED TO OPERATE AS DESCRIBED DUCT OCCUPIED MODE. OVERRIDE DURATION SHALL BE 30 MINUTES (MAX).

UNOCCUPIED MODE:
THE CONTROLLER SHALL SHUT DOWN UNOCCUPIED MODE WHEN THE BMS DETERMINES OCCUPANCY IS FALSE. DURING UNOCCUPIED MODE, THE PUMP(S) SHALL BE INDEXED OFF.



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Sheet Title:

PLUMBING DETAILS

Architect's Project No: 1807-244
Date: October, 2019

Drawing No: P2.1

PLAN NOTES:

- (P) K.E.C. PROVIDED FIXTURE
- (P) LOOP VENT
- (P) 4" GREASE WASTE TO GREASE INTERCEPTOR. REFER TO "SITE UTILITY PLAN" SHEET U1.1 FOR LOCATION AND MORE INFORMATION.
- (P) 4" WASTE FROM GREASE INTERCEPTOR. REFER TO "SITE UTILITY PLAN" SHEET U1.1 FOR LOCATION AND MORE INFORMATION.

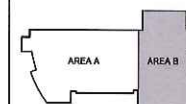
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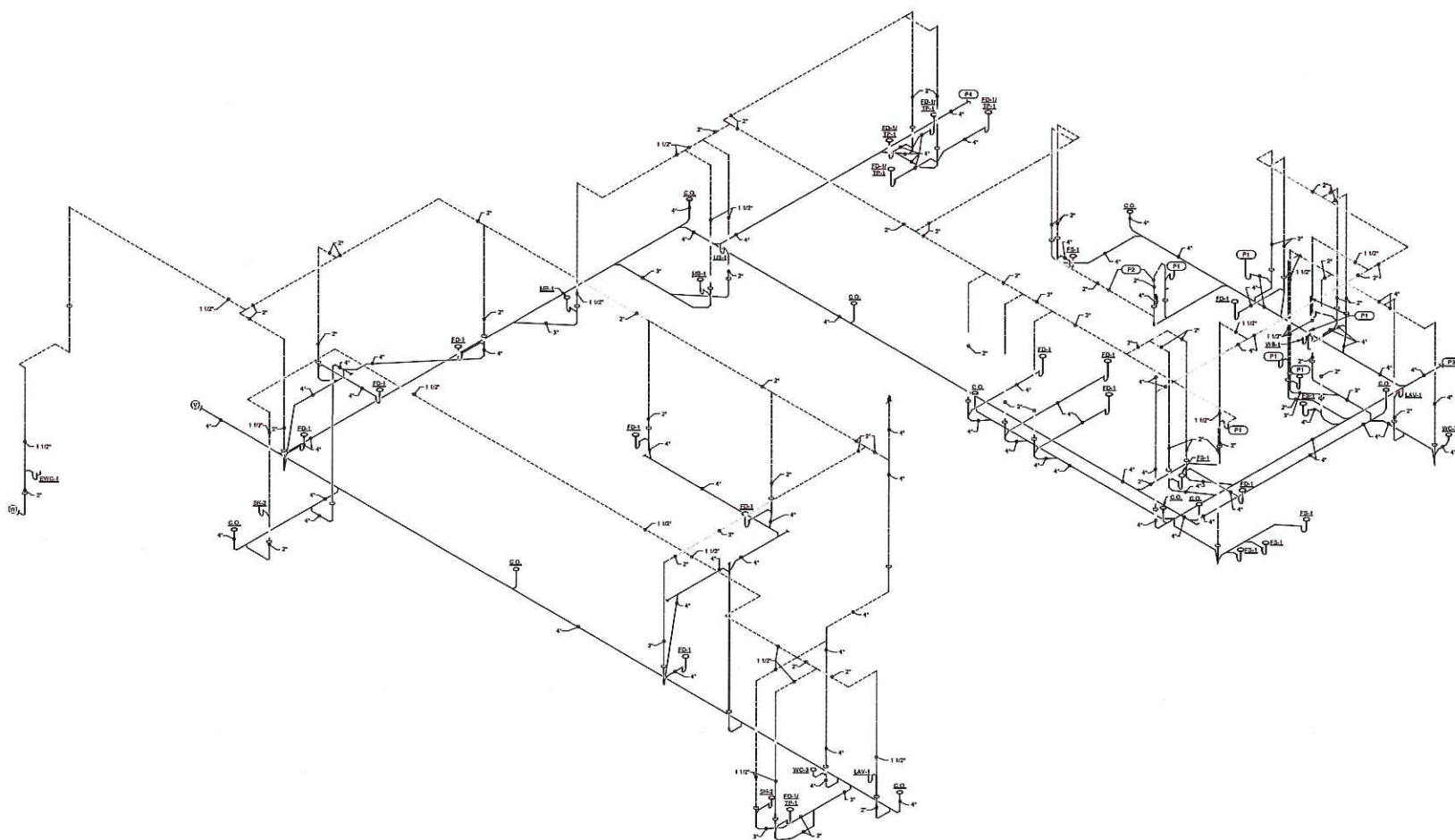
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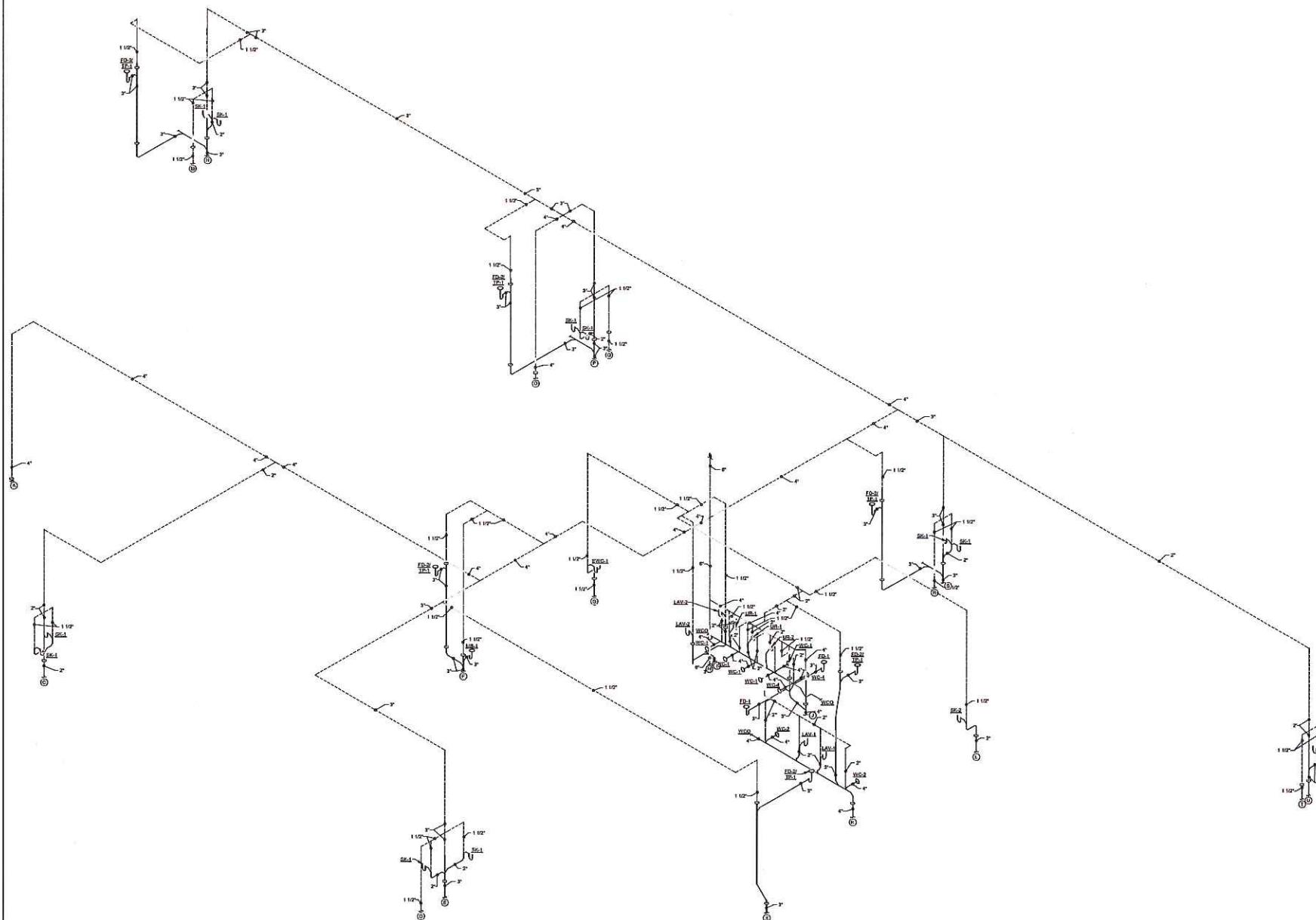
SANITARY RISER DIAGRAM - AREA B

Architect's Project No: 1807-244
 Date: October, 2019

Design No: P4.2



SANITARY RISER DIAGRAM FIRST FLOOR - AREA B



SANITARY RISER DIAGRAM SECOND FLOOR - AREA A

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Sheet Title:

SANITARY RISER DIAGRAM -
SECOND FLOOR AREA A

Architect's Project No: 1807-244
Date: October, 2019

Drawing No:

P4.3

GENERAL PLAN NOTES:

A. PLAN IS FOR COORDINATION PURPOSES. REFER TO "SECOND FLOOR MECH. PLATFORM SUPPLY & RETURN HVAC PLAN - AREA A" SHEET M1.4 AND "SECOND FLOOR MECH. PLATFORM OUTSIDE AIR & EXHAUST HVAC PLAN - AREA A" SHEET M1.5 FOR ADDITIONAL INFORMATION.

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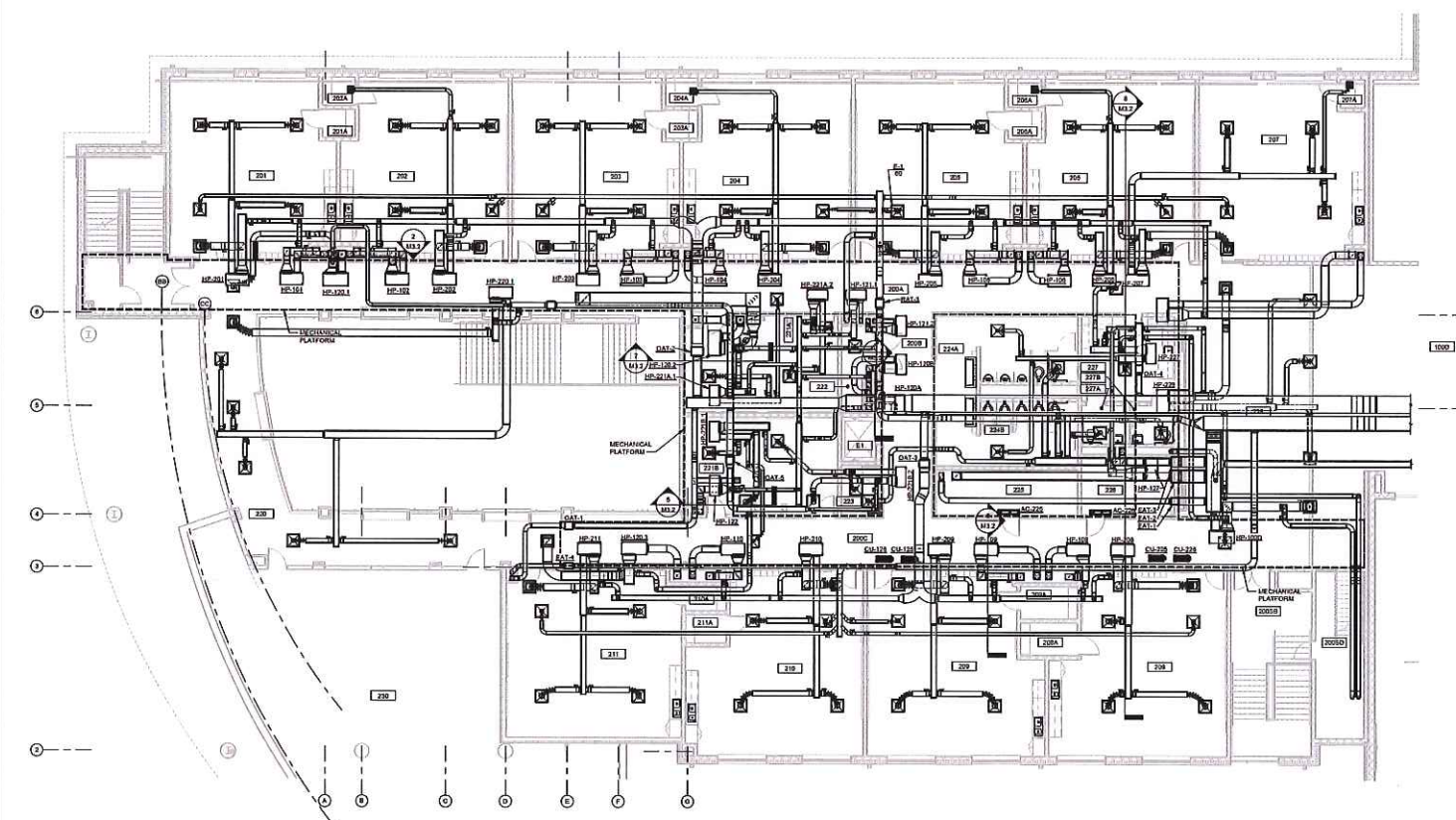
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Sheet title:
SECOND FLOOR & MECH.
PLATFORM HVAC PLAN -
AREA A (COMPOSITE)

Architect's Project No: 1807-244
Date: October, 2019

Drawing No:

M1.3



SECOND FLOOR & MECHANICAL PLATFORM HVAC PLAN - AREA A (COMPOSITE)

1/8" = 1'-0"



GENERAL NOTES:

A. THE MECHANICAL CONTRACTOR SHALL REMOVE BLOCK WALL COURSEWORK AND COORDINATE WITH MECHANICAL PLATFORM SAFETY (PA) BASES AS REQUIRED TO ROUTE DUCTWORK FROM MECHANICAL PLATFORMS TO AREAS THEY SERVE.

PLAN NOTES:

- (M1) SEE OUTSIDE AIR CONTINUATION ON "SECOND FLOOR MECH. PLATFORM HVAC PLAN - AREA A (CA & EXHAUST)" SHEET M1.5.
- (M2) DROP DUCT AND ROUTE BELOW MECHANICAL PLATFORM.
- (M3) 12"x12" RETURN DUCT DOWN.
- (M4) 12"x12" SUPPLY DUCT DOWN.
- (M5) 8"x8" RETURN DUCT DOWN.
- (M6) 8"x8" SUPPLY DUCT DOWN.
- (M7) 12"x12" RETURN DUCT DOWN. CONSTRUCT AS STRUCTURAL DUCT ASSEMBLY. REFER TO DETAIL ON SHEET M1.2 FOR ADDITIONAL REQUIREMENTS. PROVIDE FIRE DAMPER AT SLAB PENETRATION WITH ACCESS ABOVE SLAB.
- (M8) 12"x12" SUPPLY DUCT DOWN. CONSTRUCT AS STRUCTURAL DUCT ASSEMBLY. REFER TO DETAIL ON SHEET M1.2 FOR ADDITIONAL REQUIREMENTS. PROVIDE FIRE DAMPER AT SLAB PENETRATION WITH ACCESS ABOVE SLAB.
- (M9) 14"x14" SUPPLY DUCT DOWN.
- (M10) 8"x8" RETURN DUCT DOWN.
- (M11) 8"x8" SUPPLY DUCT DOWN.
- (M12) 10"x10" RETURN DUCT DOWN.
- (M13) 8"x8" SUPPLY DUCT DOWN.
- (M14) REFER TO "HALLWAYS HVAC PLAN - MECHANICAL PLATFORM" SHEET M1.1 FOR CONTINUATION.
- (M15) DASHED LINE INDICATES MECHANICAL PLATFORM "A".

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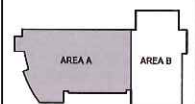


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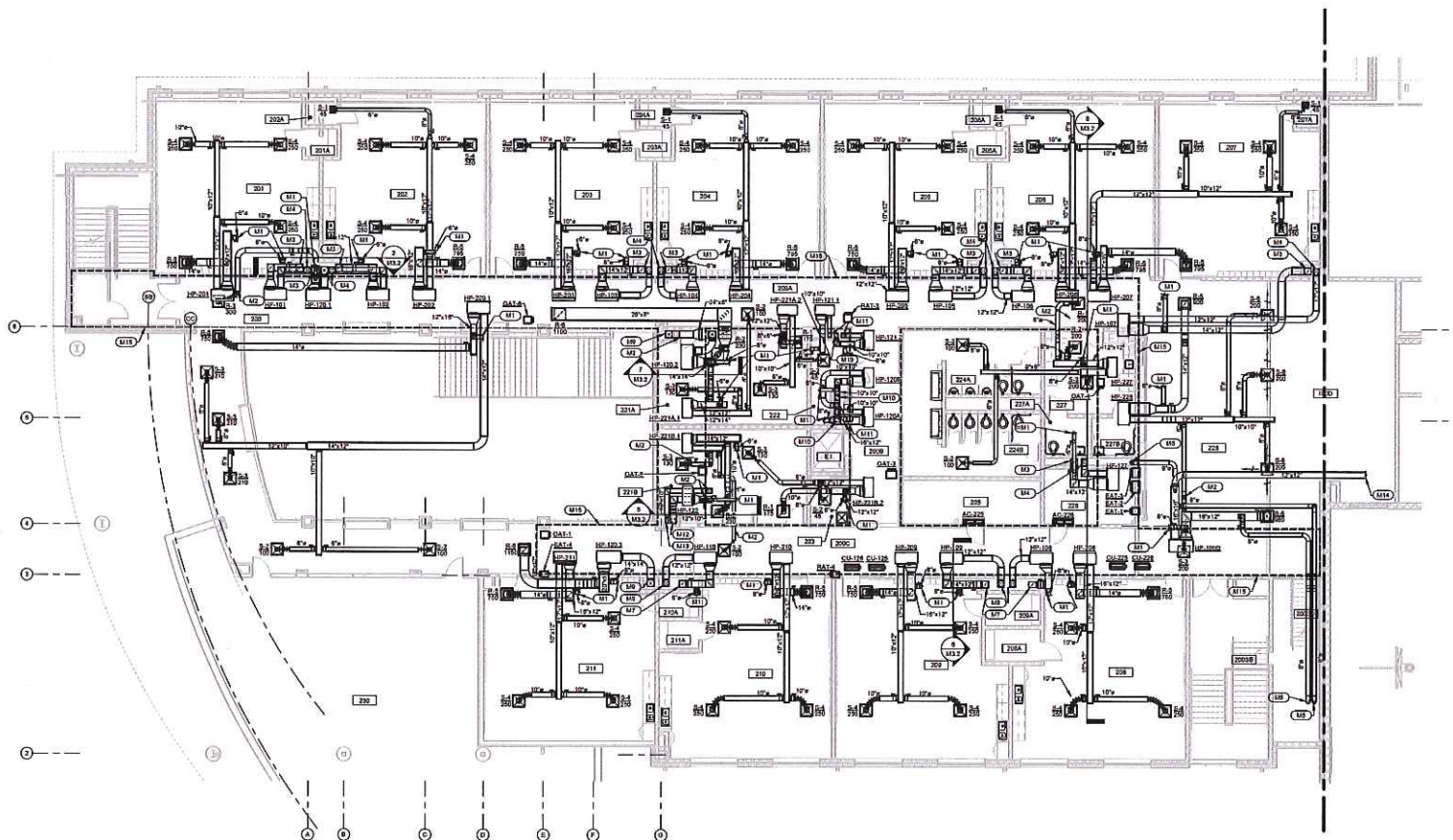
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Sheet Title:
SECOND FLOOR, MECH.
PLATFORM HVAC PLAN -
AREA A (SUPPLY & RETURN)

Architect's Project No.: 1807-244
Date: October, 2019

Drawing No.: M1.4



SECOND FLOOR MECHANICAL PLATFORM HVAC PLAN - AREA A (SUPPLY & RETURN)

1/8" = 1'-0"

GENERAL NOTES:

A. THE MECHANICAL CONTRACTOR SHALL REMOVE BLOCK WALL COVERS AND COORDINATE WITH MECHANICAL PLATFORM SAFETY RAIL BARS AS REQUIRED TO ROUTE DUCTWORK FROM MECHANICAL PLATFORMS TO AREAS THEY SERVE.

PLAN NOTES:

- (M1) USE OUTSIDE AIR CONTRIBUTION ON SECOND FLOOR MECH. PLATFORM HVAC PLAN - AREA A (SUPPLY & RETURN) SHEET M1.4.
- (M2) 10"x12" EXHAUST DUCT DOWN.
- (M3) 10"x12" EXHAUST DUCT DOWN.
- (M4) 8"x8" EXHAUST DUCT DOWN.
- (M5) 8"x8" EXHAUST AIR DUCT DOWN.
- (M6) REFER TO "ENLARGED HVAC PLAN - MECHANICAL PLATFORM B" SHEET M1.4 FOR CONTRIBUTION.
- (M7) DASHED LINE INDICATES MECHANICAL PLATFORM "X".
- (M8) 10"x EXHAUST DUCT DOWN.

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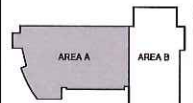
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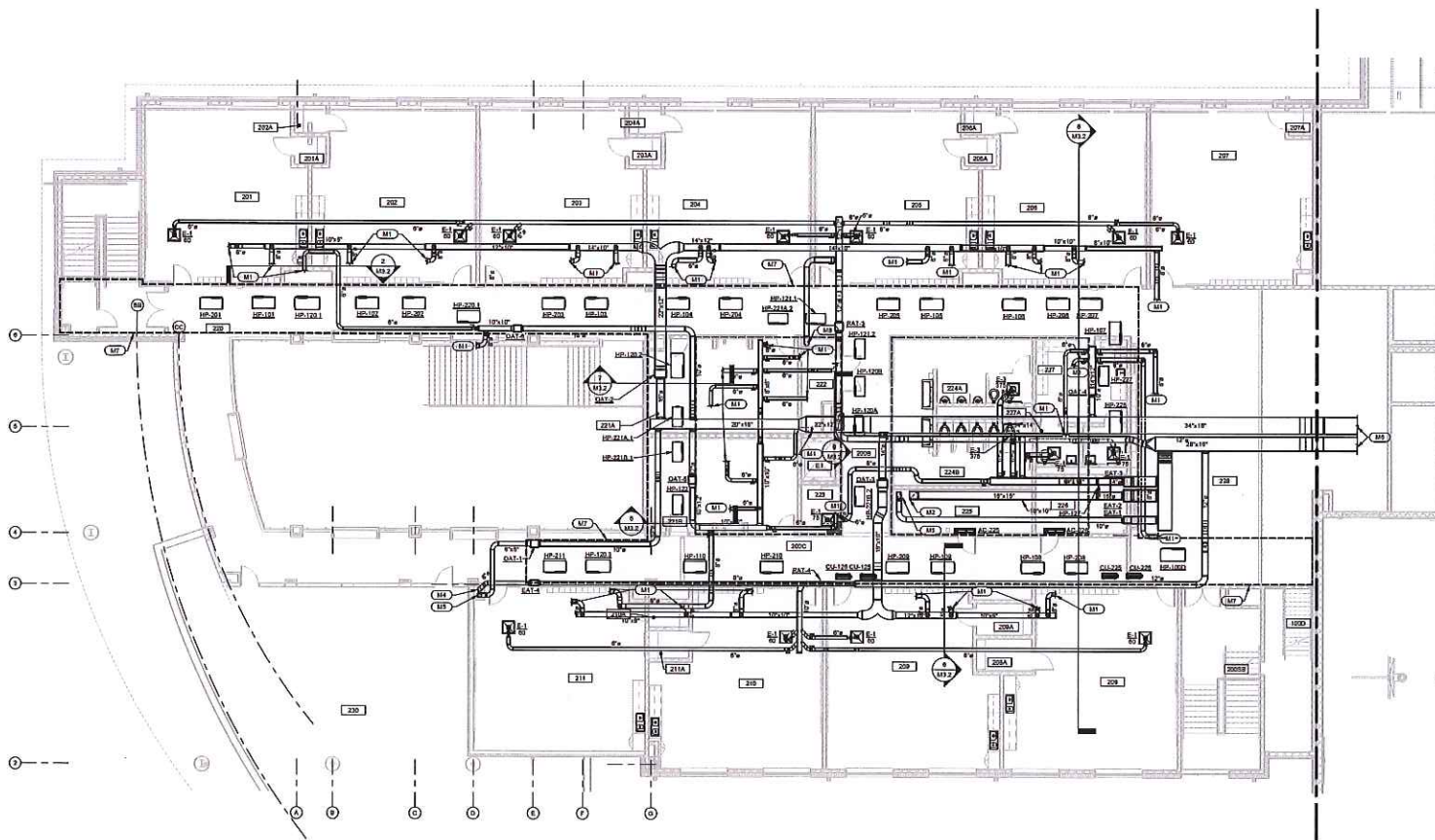
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Sheet Title:
SECOND FLOOR MECH.
PLATFORM HVAC PLAN -
AREA A (OA & EXHAUST)

Architect's Project No: 1807-244
Date: October, 2019

Drawing No:

M1.5



SECOND FLOOR MECHANICAL PLATFORM HVAC PLAN - AREA A (OA & EXHAUST)

1/8" = 1'-0"



PLAN NOTES:

- (M1) DUCTLESS SPLIT SYSTEM REFRIGERANT LINE SET, SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- (M2) 1" CONDENSATE DRAIN DOWN AND DISCHARGE IN SLOPE BASIN. MAINTAIN MINIMUM 2" AIR GAP.
- (M3) 1/2" CONDENSATE DRAIN DOWN IN WALL AND DISCHARGE TO OPEN SITS DRAIN IN WALL. MAINTAIN MINIMUM 2" AIR GAP. REFER TO FLOORING PLAN FOR OPEN SITS DRAIN.
- (M4) 2" CATCHER UP.
- (M5) REFRIGERANT LINE SET UP.
- (M6) UNIT LOCATED ON MECHANICAL PLATFORM A. REFER TO SHEETS M1.1, M1.2 & M1.3 FOR UNIT LOCATION.

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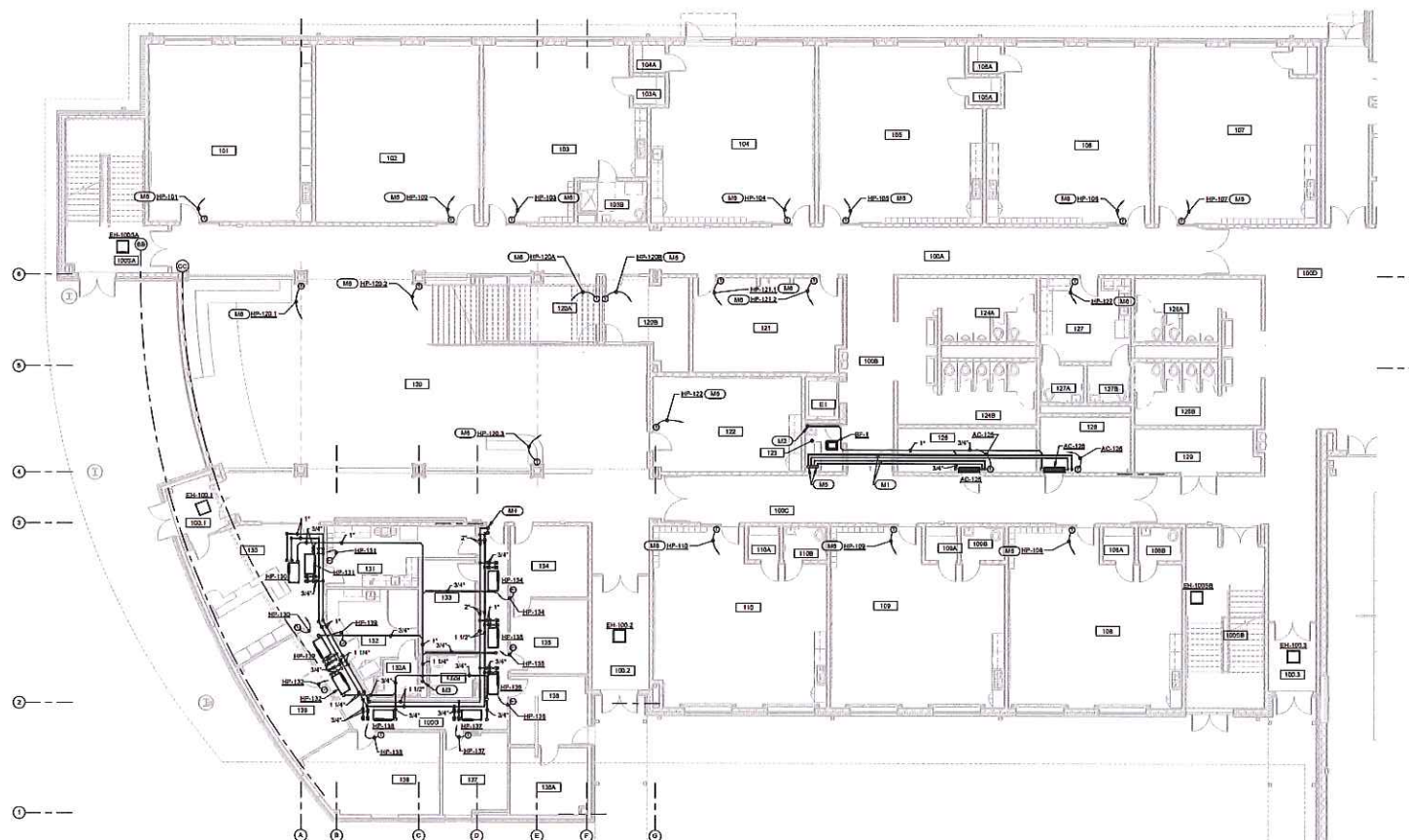
Sheet Title:

FIRST FLOOR HVAC PIPING PLANS - AREA A

Architect's Project No: 1807-244
Date: October, 2019

Drawing No:

M2.1



FIRST FLOOR HVAC PIPING PLAN - AREA A

1/8" = 1'-0"

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Sheet title:

FIRST FLOOR HVAC PIPING
PLANS - AREA B

Architect's Project No: _____ Date: _____

1807-244 October, 2019

Drawing No.

M2.2

A. IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR (KEC) TO REVIEW ALL PLUMBING, FIRE PROTECTION AND MECHANICAL DESIGN DRAWINGS REGARDING INTERFACE WITH THEIR SUPPLIED EQUIPMENT AND SERVICES TO INSURE ACCURATE COORDINATION. REFER TO THE FOOD SERVICE DRAWINGS FOR EQUIPMENT INFORMATION AND CHARACTERISTICS.

E. COORDINATE ALL LEAK PENETRATION WITH ROOFING MANUFACTURER AND INSTALLER. ALL PENETRATIONS SHALL NOT VOID ROOFING WARRANTY.

[illegible][illegible]

PLAN NOTES:

- (M1) 1/4" CONDENSATE DRAIN DOWN AND DISCHARGE IN MOP BASIN. MAINTAIN MINIMUM 2" AIR GAP.
- (M2) 1" CONDENSATE DRAIN DOWN AND DISCHARGE IN MOP BASIN. MAINTAIN MINIMUM 2" AIR GAP.
- (M3) DASHED LINE INDICATES MECHANICAL PLATFORM 2'.
- (M4) REFER TO "HANGERS HVAC PLUMBING - MECHANICAL PLATFORM 2" ON SHEET M1 FOR CONTINUATION.
- (M5) 1/4" CONDENSATE DRAIN TO FLOOR DRAIN. MAINTAIN MINIMUM AIR GAP.
- (M6) ROUTE CONDENSATE UNDER MECHANICAL PLATFORM.
- (M7) 2" DRAIN DOWN.
- (M8) REFRIGERANT SET DOWN.

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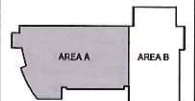
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Revisions:		
#	Description	Date

Designed By: CSM
Drawn By: CSM
Checked By: JSP

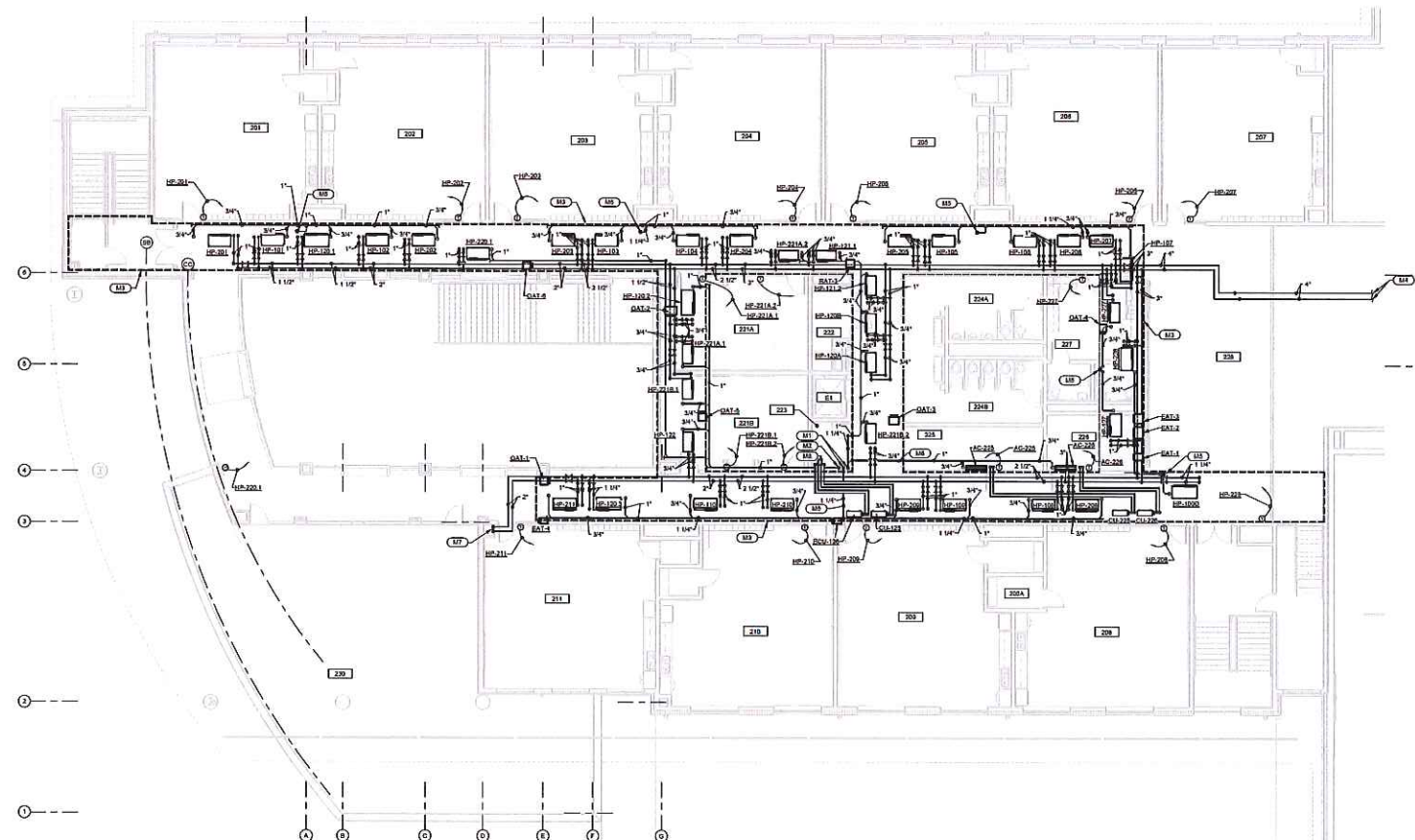
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Sheet Title:
SECOND FLOOR & MECH.
PLATFORM HVAC PIPING
PLAN - AREA A

Architect's Project No: 1807-244
Date: October, 2019

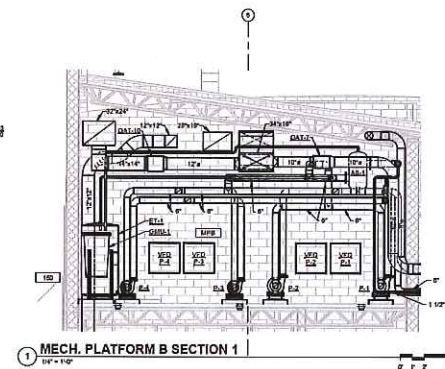
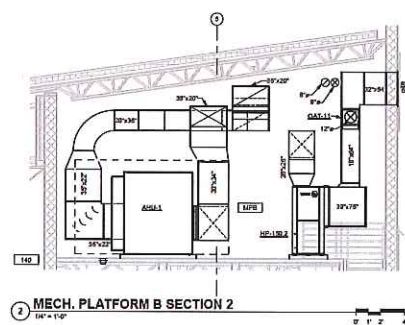
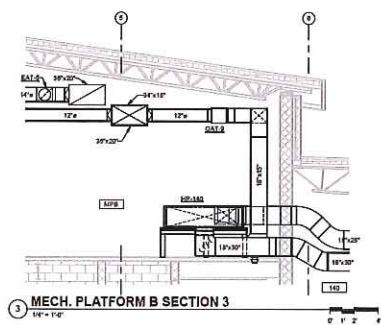
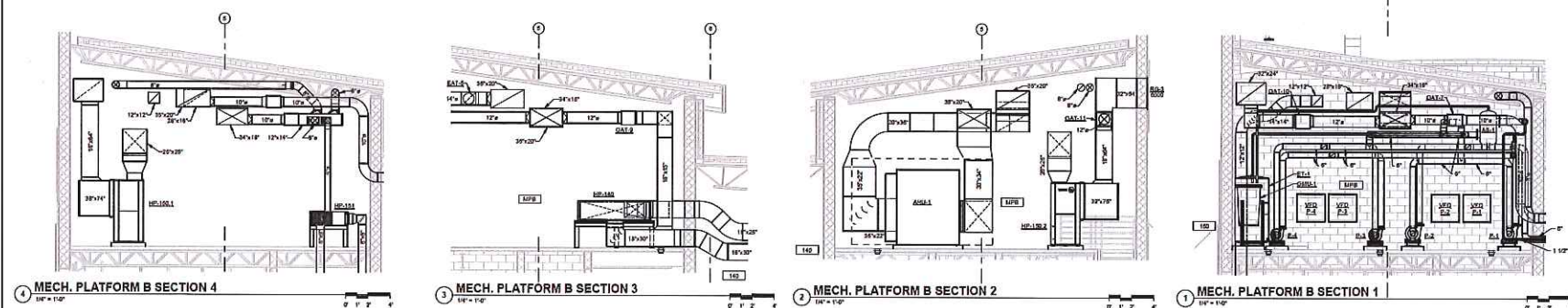
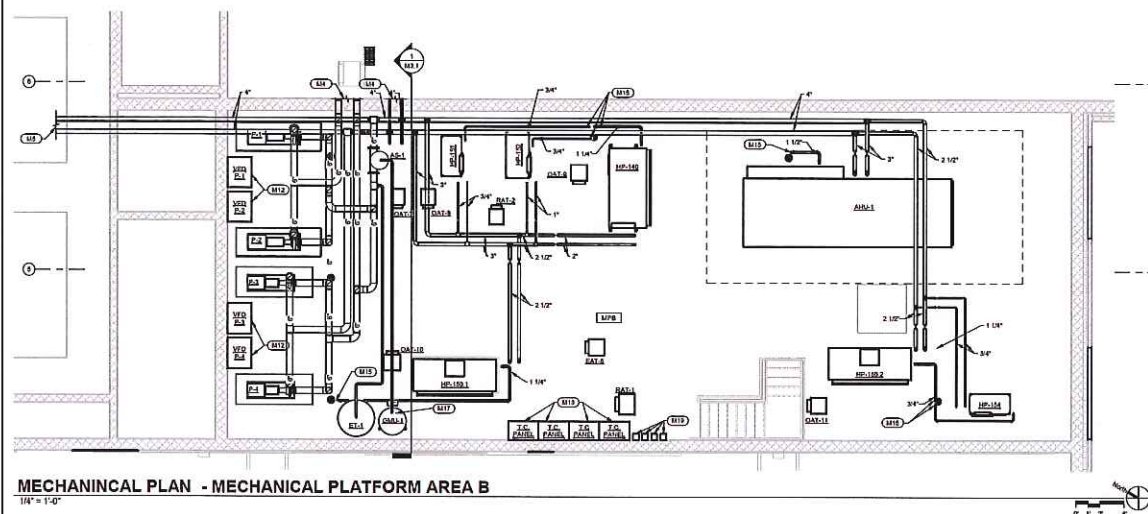
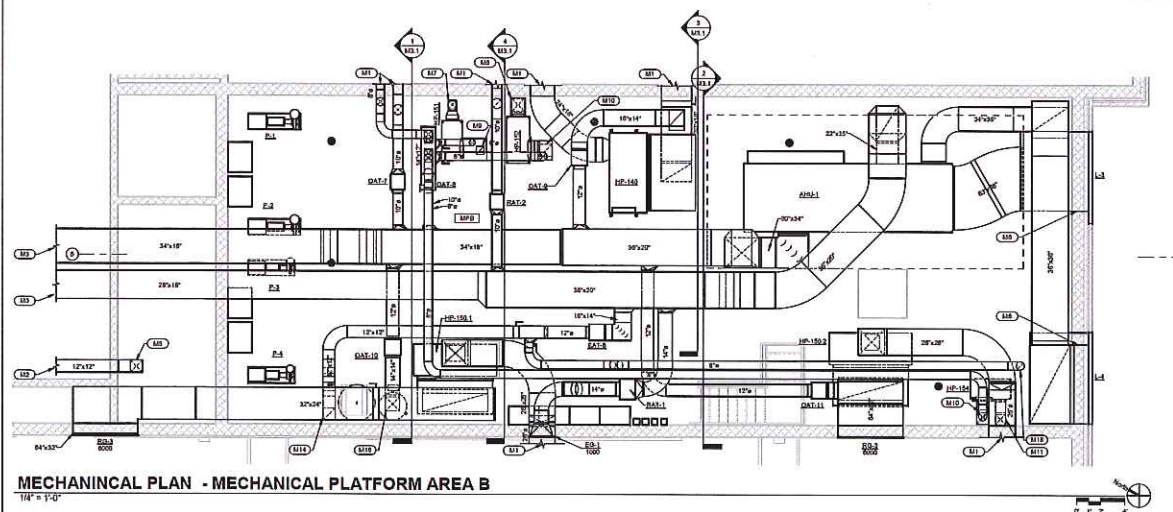
Drawing No:

M2.3



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





GENERAL NOTES:

- A. PROVIDE 4" HIGH CONCRETE EQUIPMENT PAD FOR ALL EQUIPMENT IN MECHANICAL ROOM. PROVIDE SEISMIC RATED VIBRATION ISOLATORS ON ALL EQUIPMENT SUFFICIENT TO VIBRATION.
- E. REFER TO "FIRST FLOOR HVAC PLAN - AREA B" SHEET M1.2 AND "FIRST FLOOR HVAC PIPING PLANS - AREA B" SHEET M2.2 FOR

PLAN NOTES:

- | | |
|-----|--|
| 601 | REFER TO "FIRST FLOOR HVAC PLAN - AREA A" ON SHEET M1 FOR CONTINUATION. |
| 602 | REFER TO "FIRST FLOOR HVAC PLAN - PLATONIA PLANT ROOM AREA 1" EXISTING & RETURN ON SHEET M1 FOR CONTINUATION. |
| 603 | REFER TO "SECOND FLOOR MECH. PLANT PLATONIA HVAC PLAN - AREA 2" EXISTING & RETURN ON SHEET M1 FOR CONTINUATION. |
| 604 | REFER TO "FIRST FLOOR HVAC RPPD PLAN - AREA 1" ON SHEET M12 FOR CONTINUATION. |
| 605 | REFER TO "SECOND FLOOR MECH. PLATONIA HVAC PLAN - AREA 2" EXISTING & RETURN ON SHEET M1 FOR CONTINUATION. |
| 606 | PROVIDE 75% DRAIN DEEP PLENUM ON BACKSIDE OF EXISTING PLUMBING BARRIER. TOWARDS ROOF. INSULATE WITH 2" RIGID INSULATION. |
| 607 | RPPD 25% DRAIN DOWN. |
| 608 | 12"X12" SUPPLY DUCT DOWN. |
| 609 | RPPD RETURN DUCT DOWN. PROVIDE MANUAL BALANCING VALVE AT VERTICAL. |
| 610 | 12"X12" RETURN DUCT DOWN. |
| 611 | RPPD 10" SUPPLY DUCT DOWN. |
| 612 | PROVIDE SUPPORT STRUCTURE AS REQUIRED TO MAINTAIN VPD. |
| 613 | PROVIDE SUPPORT STRUCTURE AS REQUIRED TO MAINTAIN TEMPERATURE CONTROL PANELS. |
| 614 | CONNECT 1/4" IN-OUTSIDE AIR DUCT TO BOTTOM OF 20"X24" EXISTING DUCT. |
| 615 | DEGRADE EXISTING CONDENSATE DRAIN TO HIGHEST FLOOR DRAIN. |
| 616 | 12"X12" EXHAUST DUCT DOWN. |
| 617 | EXTEND EXISTING ROOFMAN AIR VENTS AND PRESSURE EQUALIZATION VENTS TO ROOF. TOWARDS ROOF. |
| 618 | PROVIDE 1/4" IN-OUTSIDE AIR DUCT TO BOTTOM OF EXISTING SHEET W81 FOR ADDITIONAL REQUIREMENTS. |
| 619 | R#4 EXHAUST DUCT DOWN. |
| 620 | PROVIDE TRANSFORMERS FOR TRANSFORMERS FOR AIR TERMINAL UNITS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL ENGINEER. |

- M1** REFER TO "FIRST FLOOR HVAC PLAN - AREA B" ON SHEET M1.2 FOR CONTINUATION.
- M2** REFER TO "SECOND FLOOR, MECH. PLATFORM HVAC PLAN AREA A (SUPPLY & RETURN)" ON SHEET M1.4 FOR CONTINUATION.

- M3** REFER TO "SECOND FLOOR MECH. PLATFORM HVAC PLAN AREA A (OA & EXHAUST)" ON SHEET M15 FOR CONTRIBUTION.
- M4** REFER TO "FIRST FLOOR HVAC #1 R/O PLANS - AREA B" ON SHEET M12 FOR CONTRIBUTION.

- 515 REFER TO SECOND FLOOR & MECH. PLATFORM HVAC
PIPING PLAN - AREA A" ON SHEET M2.3 FOR CONTINUATION
- 516 PROVIDE 78"x100"x60" DEEP FLENUM ON BACKSIDE OF
LOUVER. SLOPE BOTTOM OF FLENUM TOWARDS LOUVER.
INSULATE WITH 2" RIGID INSULATION.

- (U7) 8"x8" SUPPLY DUCT DOWN.
 (U8) 12"x12" SUPPLY DUCT DOWN.
 (U9) 8"x8" RETURN DUCT DOWN. PROVIDE MANUAL BALANCING CAMPER IN VERTICAL.

- (M10) 12"x12" RETURN DUCT DOWN.
(M11) 10"x10" SUPPLY DUCT DOWN.
(M12) PROVIDE SUPPORT STRUCTURE AS REQUIRED TO MOUNT VFD

- (M13) PROVIDE SUPPORT STRUCTURE AS REQUIRED TO MOUNT TEMPERATURE CONTROL PANEL.
- (M14) CONNECT 14"X14" OUTSIDE AIR DUCT TO BOTTOM OF 32"x2" RETURN.
- (M15) DISCHARGE CONDENSATE DRAIN TO NEAREST FLOOR.

- M16** 12"X12" EXHAUST DUCT DOWN

- ②19 PROVIDE CONTROL POWER TRANSFORMERS FOR AIR TERMINAL UNITS. COORDINATE POWER REQUIREMENTS AND LOCATION WITH ELECTRICAL CONTRACTOR.

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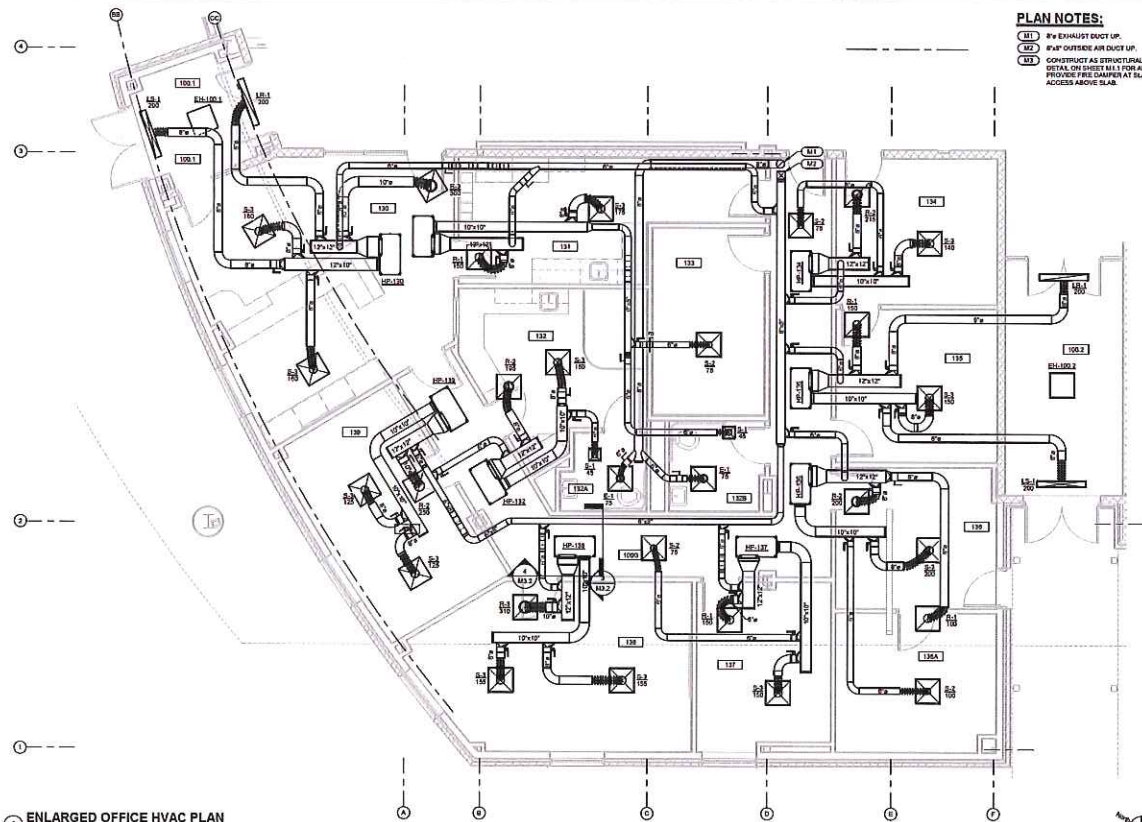
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Sheet title:
**ENLARGED HVAC PLANS -
MECHANICAL PLATFORM
AREA B**

Architect's Project No: _____ Date: _____

1807-244 October, 20



PLAN NOTES:
 (M1) 3" EXHAUST DUCT UP.
 (M2) 3" EXHAUST AIR DUCT UP.
 (M3) CONSTRUCT AS STRUCTURAL DUCT ASSEMBLY. REFER TO DETAIL ON SHEET M3.1 FOR ADDITIONAL REQUIREMENTS. PROVIDE FIRE DAMPER AT SLAB PENETRATION WITH ACCESS ABOVE SLAB.

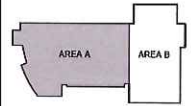
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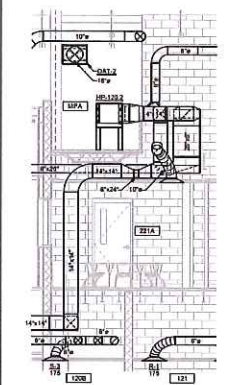
Revisions	Revised By	Date

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 Drawn By: CSM
 Checked By: JPM
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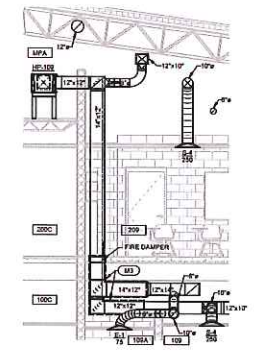
Sheet Title:
ENLARGED OFFICE HVAC PLAN & HVAC SECTIONS

Architect's Project No: 1807-244
 Date: October, 2019

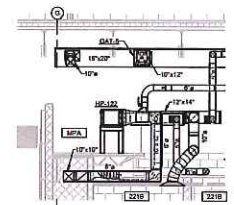
Drawing No:
M3.2



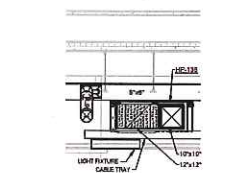
1 HP-120.2 SECTION
 1/4" = 1'-0"



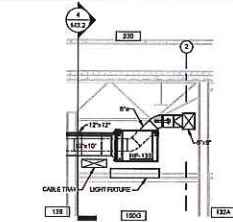
6 HP-109 SECTION
 1/4" = 1'-0"



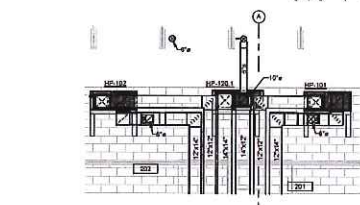
5 HP-122 SECTION
 1/4" = 1'-0"



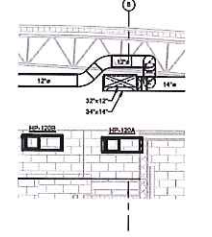
4 HP-138 SECTION 2
 1/4" = 1'-0"



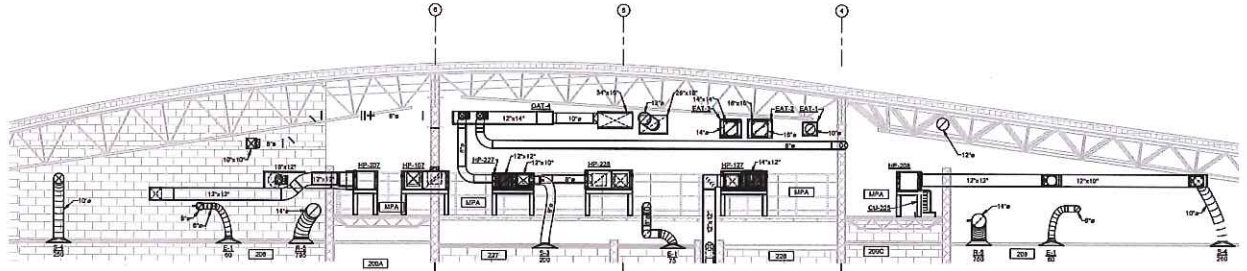
3 HP-138 SECTION 1
 1/4" = 1'-0"



2 HP-102, 120.1, 101 SECTION
 1/4" = 1'-0"

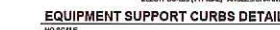


8 HP-120A, HP-120B SECTION
 1/4" = 1'-0"



7 GENERAL HVAC SECTION
 1/4" = 1'-0"

[illegible]



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M6.1



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Designed By:	Drawn By:	Checked By:
C.S.M	C.S.M	JTP

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Sheet title:

Architect's Project No: _____ Date: _____

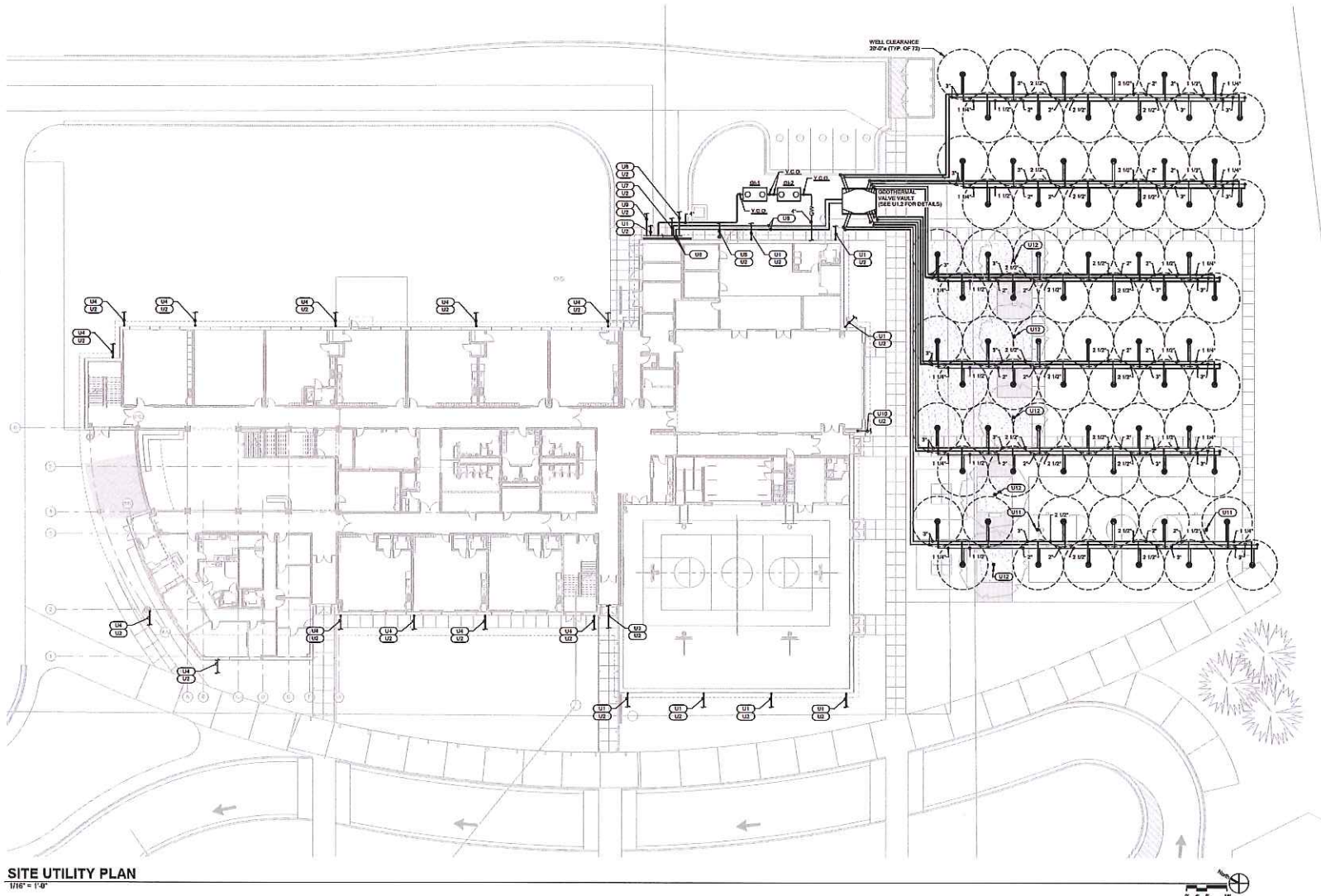
1807-244 October, 2019

Drawing No: _____

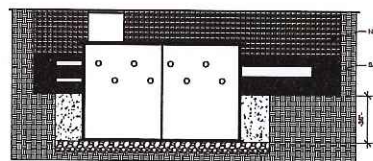
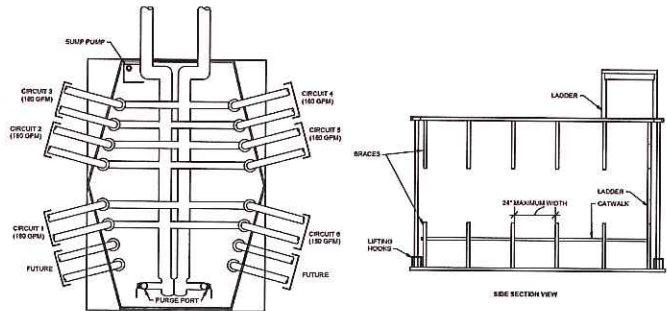
U1.1

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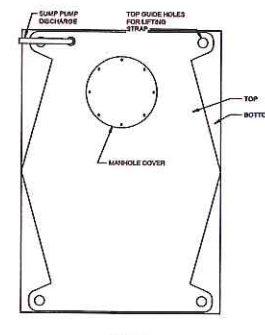
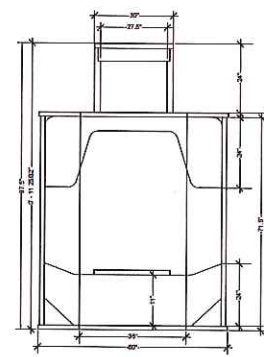
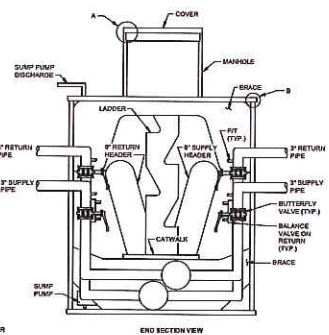
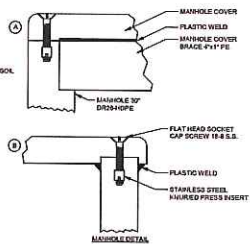
- A. REFER TO PLUMBING PLANS, FIRE PROTECTION PLANS, MECHANICAL PLANS AND SITE CIVIL PLANS FOR ADDITIONAL SLEEVE INVERTS, NOTES AND REQUIREMENTS.
- B. COORDINATE LOCATION AND DEPTHS OF GEOTHERMAL PIPING AND WELLS WITH LANDSCAPE ARCHITECT AND PLUMBING/ELECTRICAL EQUIPMENT CONTRACTOR.
- C. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 2'-0" OF BOREHOLE CLEARANCE.
- D. PROVIDE UNIT PRICE (UPT) FOR TEMPORARY CASING. CONTRACTOR SHALL PROVIDE UPT FOR ADDITIONAL CASING IF REQUIRED DUE TO SOIL CONDITIONS.
- E. EACH BOREHOLE SHALL BE 8" BOREHOLE, 1-1/4" SUPPLY AND RETURN, 500 FEET DEEP.
- F. CONTRACTOR SHALL PROVIDE UNIT PRICE FOR ONE ADDITIONAL BOREHOLE AT 500 FEET DEEP AND A SEPARATE UNIT PRICE TO EXTEND BOREHOLE (UPT).



SITE UTILITY PLAN
1/16" = 1'-0"



VALVE INSTALLATION

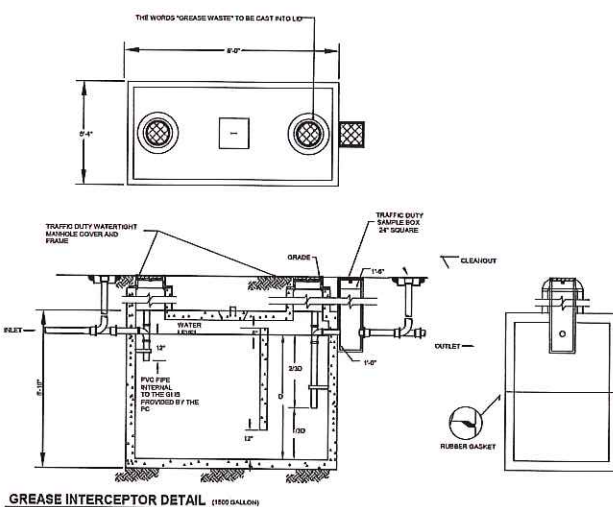


VALVE VAULT: HIGH DENSITY POLYETHYLENE EXTERNAL SHELL WITH 1/4\"/>

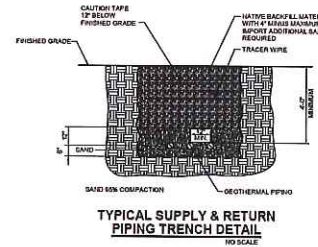
VALVE VAULT DETAILS

GENERAL NOTES:

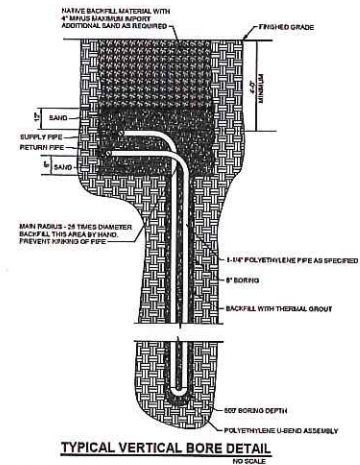
1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH 5000 PSI. TYPE F ADDITIVE OR APPROVED EQUAL REQUIRED.
2. STEEL REINFORCEMENT: ASTM A-618, GRADE 60.
3. 1/2\"/>



GREASE INTERCEPTOR DETAIL (1/8\"/>



TYPICAL SUPPLY & RETURN PIPING TRENCH DETAIL



TYPICAL VERTICAL BORE DETAIL

GEO TRENCH DETAILS

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Revisions:	Description	Date
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Designed By:	Drawn By:	Checked By:
CJS	CJS	JSP

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Sheet Title:

SITE UTILITY DETAILS

Architect's Project No: 1807-244
Date: October, 2019
Drawing No: U1.2

**INFORMATION OUTLET
FACEPLATE CONFIGURATIONS**

INFORMATION OUTLET JACK LEGEND

- CAT 5 RJ-45 (DATA)
- CAT 5 RJ-45 (TELEPHONE)
- RCA PORT
- 3.5mm JACK
- HDMI
- USB

AV11

AV12

AV13

AV14

ELECTRICAL LEGEND - LIGHTING	
SUNGLA	DESCRIPTION
	WALL SWITCHING PATTERNS SHOWN WITHIN LIGHTING FUTURE. SYMBOL INDICATES SWITCHING PATTERN CONNECTED TO SWITCHED CIRCUIT FOR LIGHTING. LIGHTS INDICATES SPECIFICALLY INDICATED OTHERWISE ON THE LIGHTING PLANS.
	CEILING OUTLET AND LIGHTING FUTURE AS SCHEDULED
	CEILING OUTLET AND LIGHTING FUTURE AS SCHEDULED
	CEILING OUTLET AND LIGHTING FUTURE AS SCHEDULED
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	WALL OUTLET AND LIGHTING FUTURE AS SCHEDULED

ELECTRICAL LEGEND - POWER

SYMBOL	DESCRIPTION
	WALL OUTLET WITH 20A, 120V DUPLEX RECEPTACLE, 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 30A, 120V DUPLEX RECEPTACLE, 48 INCHES ABOVE FINISHED FLOOR TO CENTER, OR 8 INCHES ABOVE COUNTER TOP/CABINET BACKSPASH TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 30A, 120V DOUBLE-DUPLEX RECEPTACLE, 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 120V DUPLEX RECEPTACLE & INTEGRAL SWITCH, 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH TYPE OF RECEPTACLE AS NOTED, 45 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	SYMBOL INDICATES RECEPTACLE DEDICATED FOR TV USE WHEN SHOWN PLUS ADJACENT TO SYMBOL.
	SYMBOL INDICATES GROUND FAULT INTERRUPTER TYPE RECEPTACLE WHEN SHOWN PLUS ADJACENT TO SYMBOL.
	SYMBOL INDICATES WEATHER RESISTANT RECEPTACLE & WEATHERPROOF OUTLET WHEN PLUS ADJACENT TO SYMBOL, SHOWN ON PLUS ADJACENT TO SYMBOL.
	SYMBOL INDICATES TAP/OVER RECEPTACLE WHEN SHOWN ON PLUS ADJACENT TO SYMBOL.
	NUMBERS INDICATE CIRCUIT NUMBERS (WHEN SHOWN NEXT TO OR WITHIN BRANCH, OFF, OR PLAIN).
	LOWER CASE LETTERS INDICATE BRANCH SWITCH/ARC FAULT INTERRUPTER WHEN SHOWN ON PLUS ADJACENT TO SYMBOL.
	NUMBER INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET BOX WHEN SHOWN NEXT TO SYMBOL.
	SYMBOL INDICATES WALL MOUNT JUNCTION BOX.
	SYMBOL INDICATES CEILING MOUNT JUNCTION BOX.
	SYMBOL INDICATES PUSH BUTTON.
	SYMBOL INDICATES PUSH BUTTON, (EMERGENCY POWER OFF).
	SYMBOL INDICATES SAFETY DISCONNECT SWITCH ON POWER SHEET, UNLESS NOTED OTHERWISE.
	SYMBOL INDICATES MOTOR LOCATION.
	PANEL INDICATES SWITCH RATED FOR CONNECTED LOAD AND INSTALLATION LOCATION, 18 INCHES A.F.F. TO CENTER, UNLESS NOTED OTHERWISE. NUMBERS INDICATE RATING AND NUMBER OF POLES, UNLESS NOTED OTHERWISE.
	NON-PANEL DISCONNECT SWITCH RATED FOR CONNECTED LOAD AND INSTALLATION LOCATION, 18 INCHES A.F.F. TO CENTER, UNLESS NOTED OTHERWISE. NUMBERS INDICATE RATING AND NUMBER OF POLES, UNLESS NOTED OTHERWISE.

[illegible]

ELECTRICAL LINE - SYSTEMS

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
□	MANUAL PULL STATION, FIRE ALARM SYSTEM MOUNT AT 8 INCHES P.P. TO CONTROL, UNLESS NOTED OTHERWISE.
□ ₁	CEILING MOUNT SMOKE DETECTOR.
□ ₂	CEILING MOUNT HEAT DETECTOR.
□ ₃	CEILING MOUNT CARBON DIOXIDE DETECTOR.
□ ₄	AUDIO-VISUAL ALARM DEVICE, FIRE ALARM SYSTEM WALL MOUNT AT 8 INCHES P.P. TO CONTROL, AND 8 INCHES BELOW CEILING TO TOP, WHICHEVER IS LOWER. ALL AUDIO-VISUAL DEVICES SHALL BE LOCATED WITHIN 30 FEET OF THE VOICE SIGNAL SYSTEM BEING PROVIDED AS PART OF THE FIRE ALARM SYSTEM.
□ ₅	AUDIO-VISUAL ALARM DEVICE, FIRE ALARM SYSTEM WALL MOUNT AT 8 INCHES P.P. TO CONTROL, AND 8 INCHES BELOW CEILING TO TOP, WHICHEVER IS LOWER.
□ ₆	FLOW SWITCH, ADDRESSABLE, MONITOR DEVICE, FIRE ALARM SYSTEM
□ ₇	FIRE RESIST. SWITCH, ADDRESSABLE, MONITORING DEVICE, FIRE ALARM SYSTEM
□ ₈	TEMPERATURE SWITCH, ADDRESSABLE, MONITORING DEVICE, FIRE ALARM SYSTEM
□ ₉	DUCT SMOKE DETECTOR, FIRE ALARM SYSTEM NOTIFICATION, NEAR TO SMOKE, INDICATES INTERCOMMITTEE LINE, "UP" INDICATES SMOKE DETECTOR, "DOWN" INDICATES SMOKE DAMPER, "WALL" INDICATES AIR HANDLER UNIT, ETC.
□ ₁₀	DOOR HOLD OPEN DEVICE, (PUSHMATED AND INSTALLED BY GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE POWER CIRCUIT AND FIRE ALARM SYSTEM INTERCOMMITTEE CIRCUITS AND PROVIDING ELECTRICAL CONTRACTOR SHALL PROVIDE POWER SYSTEM ELECTRICAL CONTRACTOR SHALL COORDINATE VOLTAGE REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO PURCHASE OF HOLD-OPEN DEVICES.
"W"	INDICATES PROVIDE DEVICE WITH WIRE GUARD.
"WP"	INDICATES DEVICE SHALL BE LISTED FOR OUTDOOR WET LOCATION USE.

OVERHEAD PAGING SYSTEM

SYMBOL	DESCRIPTION
□ ₁	CEILING SPEAKER FOR OVERHEAD PAGING SYSTEM COMPLETE WITH BATTLES AND JACKSON TRANSFORMER, SPEAKER SHALL HAVE WHITE OVERSTAMP PPMV FOR TEACH LOUD SPEAKER. SPEAKER SHALL BE SMALL BEYOND COMPANY LOGO. SPEAKER SHALL BE WHITE, COLOR FOR PAGING USE.
□ ₂	FLUSH MOUNT OUTLET BOX WITH OVERHEAD PAGING SYSTEM SPEAKER, VOLUME CONTROL, SPEAKER SHALL BE WHITE, COLOR FOR PAGING USE.
□ ₃	FLUSH MOUNT OUTLET BOX FOR OUTDOOR PAGING SYSTEM SPEAKER, FLUSH MOUNT OUTLET BOX FOR OUTDOOR PAGING SYSTEM SPEAKER.
□ ₄	CLASSROOM INTERCOMMITTEE OUTTUN
□ ₅	MASTER VIP STATION

INTERCOM SYSTEMS

SYMBOL	DESCRIPTION
□ ₁	DOOR PHONE STATION.
□ ₂	MASTER MASTER OR STATION, BEST TOP, PROVIDE OUTLET BOX WALL MOUNTED, ALL WORK AS REQUIRED, DISCONNECT CIRCUITS FOR MANUFACTURER'S REQUIREMENTS.
□ ₃	WALL MOUNTED DOOR PHONE STATION.
□ ₄	MASTER DOOR PHONE STATION.

CLOCK SYSTEMS

SYMBOL	DESCRIPTION
□ ₁	WALL MOUNT POWERED ANALOG CLOCK.
□ ₂	FLUSH MOUNT, POE POWERED, DIGITAL CLOCK, PROVIDE ONE DATA CABLE TO COMMUNICATIONS CENTER, PROVIDE BATTERY BACKUP.

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TYPE	DESCRIPTION	MANUFACTURER	SDMS	COVER/ASSEMBLY	NOTES
A	RECESSED, MULTI-SERVICE, LARGE CAPACITY FLOOR BOX FOR POWER, COMMUNICATION, AND VIDEO APPLICATIONS. DESIGNED FOR USE IN SLAB ON GRADE APPLICATIONS. HEAVY DUTY COVER ASSEMBLY RATED FOR 3000LBS. MINIMUM BOX DEPTH OF 5-10 INCHES.	WALKER / WYNDOL	EP845	CAT ALUMINUM BURN ALUMINUM FRESH EET REMARKS FOR ADDITIONAL REQUIREMENTS	1. TWO HEMA 5-20R OPI RECEPTABLES
B	RECESSED, MULTI-SERVICE, LARGE CAPACITY FLOOR BOX FOR POWER, COMMUNICATION, AND VIDEO APPLICATIONS. DESIGNED FOR USE IN SLAB ON GRADE APPLICATIONS. HEAVY DUTY COVER ASSEMBLY RATED FOR 3000LBS. MINIMUM BOX DEPTH OF 5-10 INCHES.	WALKER / WYNDOL	EP82	CAT ALUMINUM BURN ALUMINUM FRESH EET REMARKS FOR ADDITIONAL REQUIREMENTS	1. TWO HEMA 5-20R OPI RECEPTABLES. 2. TWO DATA CABLES AND OUTLET
C	RECESSED, MULTI-SERVICE, LARGE CAPACITY FLOOR BOX FOR POWER, COMMUNICATION, AND VIDEO APPLICATIONS. DESIGNED FOR USE ON SECOND FLOOR APPLICATIONS. HEAVY DUTY COVER ASSEMBLY RATED FOR 3000LBS. MINIMUM BOX DEPTH OF 5-10 INCHES.	WALKER / WYNDOL	ECT	CAT ALUMINUM BURN ALUMINUM FRESH EET REMARKS FOR ADDITIONAL REQUIREMENTS	1. TWO HEMA 5-20R OPI RECEPTABLES 2. TWO DATA CABLES AND OUTLET 3. ONE HEMA CABLE AND OUTLET
D	RECESSED, MULTI-SERVICE, LARGE CAPACITY FLOOR BOX FOR POWER, COMMUNICATION, AND VIDEO APPLICATIONS. DESIGNED FOR USE ON SECOND FLOOR APPLICATIONS. HEAVY DUTY COVER ASSEMBLY RATED FOR 3000LBS. MINIMUM BOX DEPTH OF 5-10 INCHES.	WALKER / WYNDOL	ECT	CAT ALUMINUM BURN ALUMINUM FRESH EET REMARKS FOR ADDITIONAL REQUIREMENTS	1. THREE HEMA 5-20R OPI RECEPTABLES 2. ONE DATA CABLES AND OUTLET
E	RECESSED, MULTI-SERVICE, LARGE CAPACITY FLOOR BOX FOR POWER, AND COMMUNICATION. DESIGNED FOR USE ON SECOND FLOOR APPLICATIONS. HEAVY DUTY COVER ASSEMBLY RATED FOR 3000LBS. MINIMUM BOX DEPTH OF 5-10 INCHES.	WALKER / WYNDOL	ECT	CAT ALUMINUM BURN ALUMINUM FRESH EET REMARKS FOR ADDITIONAL REQUIREMENTS	1. THREE HEMA 5-20R OPI RECEPTABLES 2. FACILITIES AND CABLES FOR AV1 CONFIGURATION SHOWN IN THE RECEPTION OUTLET FACE PLATE CONFIGURATION.
F	RECESSED, MULTI-SERVICE POWER ONLY FOR POWER AND COMMUNICATION APPLICATIONS. DESIGNED FOR USE ON SECOND FLOOR APPLICATIONS. HEAVY DUTY COVER ASSEMBLY RATED FOR 3000LBS. MINIMUM BOX DEPTH OF 5-10 INCHES.	WALKER / WYNDOL	44T	CAT ALUMINUM BURN ALUMINUM FRESH EET REMARKS FOR ADDITIONAL REQUIREMENTS	

C# **C#**

V **V**

INFORMATION OUTLET FACEPLATE CONFIGURATIONS

INFORMATION OUTLET JACK LEGEND	
☐	BLANK
☒	CAT 5 RJ-45 (DATA)
☒ B1	CAT 6 RJ-45 (TELEPHONE)

K#c1

K#c2

K#c3

K#c4

K#c5

SYMBOL	DESCRIPTION
	CAMERA ASSEMBLY, HOURS AND MOUNTING ACCESSORIES. VIDEO SURVEILLANCE. PROVIDE A QUANTITY OF ONE DATA CABLE TO EACH CAMERA LOCATION. CAMERAS SHALL BE OWNER-FURNISHED AND CONTRACTOR-INSTALLED.
	WALL MOUNT CAMERA ASSEMBLY, HOURS AND MOUNTING ACCESSORIES. VIDEO SURVEILLANCE. PROVIDE A QUANTITY OF ONE DATA CABLE TO EACH CAMERA LOCATION. CAMERAS SHALL BE OWNER-FURNISHED AND CONTRACTOR-INSTALLED.
"WG"	INDICATES PROVIDE DEVICE WITH WIRE GUARD

**WIRELESS NETWORK ACCESS
POINT OUTLET CONFIGURATION**

The diagram shows a rectangular outlet labeled "CONFIGURATION" with two ports. Callouts indicate the following details:

- DOUBLE-PORT SURFACE MOUNT HOUSING, RATED FOR USE IN PLENUM AIR RETURN SPACES.
- SEE SPECIFICATIONS FOR RACK MOUNT LOCATION REQUIREMENTS (TYP).
- DATA CABLE, TYPICAL.

TYPICAL INFORMATION OUTLET & CONDUIT INSTALLATION

NO SCALE

[illegible]

LIGHTING FIXTURE SCHEDULE												
SYMBOL	DESCRIPTION	MANUFACTURER	FIXTURE SERIES	LAMP		FUTURE VOLTAGE	BALLAST	MOUNTING	LIGHT CONTROL			REMARKS
				TYPE	QNTY PER FIXTURE				LENS	REFLECTOR	LOUVER/FINISH	
(E1)	2W LED SPECIFICATION GRADE, STATIC FIXTURE WITH DECORATIVE BATH WHITE LENS AND FLUSH DOOR FRAME, (P) MAX FUTURE DEPTH, DIMMABLE USHG 0-10V CONTROLS DOWN TO 1% 4800 LUMEN OUTPUT	LITHONIA METALUX TSD	FSL SERIES 2PRF SERIES TSD	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	BATH WHITE	—	1. PROVIDE FIXTURE(S) WITH SLIDE-TO-OFF TYPE, 0 TO 10V DIMMING CONTROLLER(S) (SWITCH AS INDICATED ON THE LIGHTING PLANS). FULLY COMPATIBLE WITH AND RATED FOR OPERATION WITH FIXTURES. FINISH COLOR OF DIMMING CONTROLLER(S) AND DEVICE PLATES SHALL MATCH THE COLOR OF ALL OTHER WIRING DEVICE/DEVICE PLATES CONNECTED TO NORMAL POWER.
(E2)	SAME AS FIXTURE "E1" WITH THE ADDITION OF AN INTEGRAL INVERTER AND BATTERY BACK-UP SYSTEM CAPABLE OF OPERATING FUTURE ON LOSS OF NORMAL POWER SOURCE FOR A MINIMUM OF 90 MINUTES CONTINUOUSLY WITH AN OUTPUT OF 1400 LUMENS	LITHONIA METALUX TSD	FSL SERIES 2PRF SERIES TSD	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	BATH WHITE	—	1. PROVIDE FIXTURE(S) WITH SLIDE-TO-OFF TYPE, 0 TO 10V DIMMING CONTROLLER(S) (SWITCH AS INDICATED ON THE LIGHTING PLANS). FULLY COMPATIBLE WITH AND RATED FOR OPERATION WITH FIXTURES. FINISH COLOR OF DIMMING CONTROLLER(S) AND DEVICE PLATES SHALL MATCH THE COLOR OF ALL OTHER WIRING DEVICE/DEVICE PLATES CONNECTED TO NORMAL POWER.
(E3)	2W LED SPECIFICATION GRADE, STATIC FIXTURE WITH DECORATIVE BATH WHITE LENS AND FLUSH DOOR FRAME, (P) MAX FUTURE DEPTH, DIMMABLE USHG 0-10V CONTROLS DOWN TO 1% 3800 LUMEN OUTPUT	LITHONIA METALUX TSD	FSL SERIES 2PRF SERIES TSD	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	BATH WHITE	—	1. PROVIDE FIXTURE(S) WITH SLIDE-TO-OFF TYPE, 0 TO 10V DIMMING CONTROLLER(S) (SWITCH AS INDICATED ON THE LIGHTING PLANS). FULLY COMPATIBLE WITH AND RATED FOR OPERATION WITH FIXTURES. FINISH COLOR OF DIMMING CONTROLLER(S) AND DEVICE PLATES SHALL MATCH THE COLOR OF ALL OTHER WIRING DEVICE/DEVICE PLATES CONNECTED TO NORMAL POWER.
(E4)	SAME AS FIXTURE "E3" WITH THE ADDITION OF AN INTEGRAL INVERTER AND BATTERY BACK-UP SYSTEM CAPABLE OF OPERATING FUTURE ON LOSS OF NORMAL POWER SOURCE FOR A MINIMUM OF 90 MINUTES CONTINUOUSLY WITH AN OUTPUT OF 1400 LUMENS	LITHONIA METALUX TSD	FSL SERIES 2PRF SERIES TSD	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	BATH WHITE	—	1. PROVIDE FIXTURE(S) WITH SLIDE-TO-OFF TYPE, 0 TO 10V DIMMING CONTROLLER(S) (SWITCH AS INDICATED ON THE LIGHTING PLANS). FULLY COMPATIBLE WITH AND RATED FOR OPERATION WITH FIXTURES. FINISH COLOR OF DIMMING CONTROLLER(S) AND DEVICE PLATES SHALL MATCH THE COLOR OF ALL OTHER WIRING DEVICE/DEVICE PLATES CONNECTED TO NORMAL POWER.
(E5)	4" APERTURE, AERIAL DISTRIBUTION OPEN DOWNLIGHT, RECESSED DOWNLIGHT, WITH A MAXIMUM FUTURE DEPTH OF 6" WHITE TRIM, DIMMABLE USING 0 TO 10V DIMMING CONTROLS DOWN TO 1% 2800 LUMEN OUTPUT	PATHWAY GOTTMAN PHILIPS CUESTAR PORTFOLIO	8VALED2500 SERIES EVO 3024 SERIES OMLED-2500 SERIES LMD2000-40M SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE)	QNTY AS REQUIRED	W/ FUTURE INPUT WATTS	120/277	—	RECESSED	SOFT SPECULAR CLEAR	—	1. PROVIDE FIXTURE(S) WITH SLIDE-TO-OFF TYPE, 0 TO 10V DIMMING CONTROLLER(S) (SWITCH AS INDICATED ON THE LIGHTING PLANS). FULLY COMPATIBLE WITH AND RATED FOR OPERATION WITH FIXTURES. FINISH COLOR OF DIMMING CONTROLLER(S) AND DEVICE PLATES SHALL MATCH THE COLOR OF ALL OTHER WIRING DEVICE/DEVICE PLATES CONNECTED TO NORMAL POWER.
(E6)	SAME AS FIXTURE "E5" WITH THE ADDITION OF AN INTEGRAL INVERTER AND BATTERY BACK-UP SYSTEM CAPABLE OF OPERATING FUTURE ON LOSS OF NORMAL POWER SOURCE FOR A MINIMUM OF 90 MINUTES CONTINUOUSLY WITH AN OUTPUT OF 1400 LUMENS	PATHWAY GOTTMAN PHILIPS CUESTAR PORTFOLIO	8VALED2500 SERIES EVO 3024 SERIES OMLED-2500 SERIES LMD2000-40M SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE)	QNTY AS REQUIRED	W/ FUTURE INPUT WATTS	120/277	—	RECESSED	SOFT SPECULAR CLEAR	—	1. PROVIDE FIXTURE(S) WITH SLIDE-TO-OFF TYPE, 0 TO 10V DIMMING CONTROLLER(S) (SWITCH AS INDICATED ON THE LIGHTING PLANS). FULLY COMPATIBLE WITH AND RATED FOR OPERATION WITH FIXTURES. FINISH COLOR OF DIMMING CONTROLLER(S) AND DEVICE PLATES SHALL MATCH THE COLOR OF ALL OTHER WIRING DEVICE/DEVICE PLATES CONNECTED TO NORMAL POWER.
(E7)	2W LED SPECIFICATION GRADE, STATIC, PRISMATIC LENS AND FLUSH DOOR FRAME, (P) MAX FUTURE DEPTH, 4800 LUMEN OUTPUT	LITHONIA COOPER COLUMBIA	20TL SERIES 20N SERIES LIT71 SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	.18" THICK, UV STABILIZED	—	1. CHAIN MOUNT FIXTURE IN ALL EXPOSED CEILING AREAS.
(E8)	SAME AS FIXTURE "E7" WITH THE ADDITION OF AN INTEGRAL INVERTER AND BATTERY BACK-UP SYSTEM CAPABLE OF OPERATING FUTURE ON LOSS OF NORMAL POWER SOURCE FOR A MINIMUM OF 90 MINUTES CONTINUOUSLY WITH AN OUTPUT OF 1400 LUMENS	LITHONIA COOPER COLUMBIA	20TL SERIES 20N SERIES LIT71 SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	.18" THICK, UV STABILIZED	—	1. CHAIN MOUNT FIXTURE IN ALL EXPOSED CEILING AREAS.
(E9)	4" x 12" HIGH BAY DIM LIGHTING FIXTURE WITH ACQUIL PROTECTED LENS, GENERAL DISTRIBUTION, DIMMABLE USHG 0-10V CONTROLS DOWN TO 1% PROVIDE SECTION AND DAYLIGHT SENSOR, HIGH EFFICIENCY FIXTURE WITH 1400 LUMEN OUTPUT	LITHONIA METALUX DAY-BRITE	810 SERIES HR SERIES W/ WYREGUARD 78 LED HIGH BAY SERIES W/ JUNCTION & BALLASTLESS LED	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 88 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	PERDAINT	MATTE WHITE ACRYLIC	—	1. PROVIDE FIXTURE(S) WITH SLIDE-TO-OFF TYPE, 0 TO 10V DIMMING CONTROLLER(S) (SWITCH AS INDICATED ON THE LIGHTING PLANS). FULLY COMPATIBLE WITH AND RATED FOR OPERATION WITH FIXTURES. FINISH COLOR OF DIMMING CONTROLLER(S) AND DEVICE PLATES SHALL MATCH THE COLOR OF ALL OTHER WIRING DEVICE/DEVICE PLATES CONNECTED TO NORMAL POWER. 2. VERIFY EXACT MOUNTING HEIGHT OFF FLOOR WITH ARCHITECTURAL ELEVATIONS. 3. PROVIDE ALL REQUIRED ACCESSORIES TO CHAIN MOUNT FIXTURES.
(E10)	SAME AS FIXTURE "E9" WITH THE ADDITION OF AN INTEGRAL INVERTER AND BATTERY BACK-UP SYSTEM CAPABLE OF OPERATING FUTURE ON LOSS OF NORMAL POWER SOURCE FOR A MINIMUM OF 90 MINUTES CONTINUOUSLY WITH AN OUTPUT OF 1400 LUMENS	LITHONIA METALUX COLUMBIA DAY-BRITE	20TL SERIES SHED LENSED SERIES LCL SERIES W/ DISC FLUXSTREAM SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 80 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	SURFACE/ CHAIN	—	—	1. CHAIN MOUNT FIXTURE IN ALL EXPOSED CEILING AREAS. 2. SURFACE MOUNT FIXTURES IN LOCATIONS WITH HARD CEILING.
(E11)	8" LENSED STEP FIXTURE WITH GALVANIZED FINISH SUITABLE FOR USE IN MECHANICAL AND ELECTRICAL ROOMS, 3000 LUMEN OUTPUT	LITHONIA METALUX COLUMBIA DAY-BRITE	20TL SERIES SHED LENSED SERIES LCL SERIES W/ DISC FLUXSTREAM SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 80 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	SURFACE/ CHAIN	—	—	1. CHAIN MOUNT FIXTURE IN ALL EXPOSED CEILING AREAS. 2. SURFACE MOUNT FIXTURES IN LOCATIONS WITH HARD CEILING.
(E12)	SAME AS FIXTURE "E11" WITH THE ADDITION OF AN INTEGRAL INVERTER AND BATTERY BACK-UP SYSTEM CAPABLE OF OPERATING FUTURE ON LOSS OF NORMAL POWER SOURCE FOR A MINIMUM OF 90 MINUTES CONTINUOUSLY WITH AN OUTPUT OF 1400 LUMENS	LITHONIA METALUX COLUMBIA DAY-BRITE	20TL SERIES SHED LENSED SERIES LCL SERIES W/ DISC FLUXSTREAM SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 80 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	SURFACE/ CHAIN	—	—	1. CHAIN MOUNT FIXTURE IN ALL EXPOSED CEILING AREAS. 2. SURFACE MOUNT FIXTURES IN LOCATIONS WITH HARD CEILING.
(E13)	2W LED SPECIFICATION GRADE, STATIC, PRISMATIC LENS AND FLUSH DOOR FRAME, (P) MAX FUTURE DEPTH, 4800 LUMEN OUTPUT	LITHONIA COOPER COLUMBIA	20TL SERIES 20N SERIES LIT71 SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	.18" THICK, UV STABILIZED	—	1. CHAIN MOUNT FIXTURE IN ALL EXPOSED CEILING AREAS.
(E14)	SAME AS FIXTURE "E13" WITH THE ADDITION OF AN INTEGRAL INVERTER AND BATTERY BACK-UP SYSTEM CAPABLE OF OPERATING FUTURE ON LOSS OF NORMAL POWER SOURCE FOR A MINIMUM OF 90 MINUTES CONTINUOUSLY WITH AN OUTPUT OF 1400 LUMENS	LITHONIA COOPER COLUMBIA	20TL SERIES 20N SERIES LIT71 SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	.18" THICK, UV STABILIZED	—	1. CHAIN MOUNT FIXTURE IN ALL EXPOSED CEILING AREAS.
(E15)	2W LED SPECIFICATION GRADE, STATIC, PRISMATIC LENS AND FLUSH DOOR FRAME, (P) MAX FUTURE DEPTH, 3800 LUMEN OUTPUT	LITHONIA COOPER COLUMBIA	20TL SERIES 20N SERIES LIT72 SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	.18" THICK, UV STABILIZED	—	1. CHAIN MOUNT FIXTURE IN ALL EXPOSED CEILING AREAS.
(E16)	SAME AS FIXTURE "E15" WITH THE ADDITION OF AN INTEGRAL INVERTER AND BATTERY BACK-UP SYSTEM CAPABLE OF OPERATING FUTURE ON LOSS OF NORMAL POWER SOURCE FOR A MINIMUM OF 90 MINUTES CONTINUOUSLY WITH AN OUTPUT OF 1400 LUMENS	LITHONIA COOPER COLUMBIA	20TL SERIES 20N SERIES LIT72 SERIES	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	.18" THICK, UV STABILIZED	—	1. CHAIN MOUNT FIXTURE IN ALL EXPOSED CEILING AREAS.
(E17)	2W LED SPECIFICATION GRADE, STATIC FIXTURE WITH DECORATIVE BATH WHITE LENS AND FLUSH DOOR FRAME, (P) MAX FUTURE DEPTH, DIMMABLE USHG 0-10V CONTROLS DOWN TO 1% 2800 LUMEN OUTPUT	LITHONIA METALUX TSD	FSL SERIES 2PRF SERIES TSD	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	BATH WHITE	—	1. PROVIDE FIXTURE(S) WITH SLIDE-TO-OFF TYPE, 0 TO 10V DIMMING CONTROLLER(S) (SWITCH AS INDICATED ON THE LIGHTING PLANS). FULLY COMPATIBLE WITH AND RATED FOR OPERATION WITH FIXTURES. FINISH COLOR OF DIMMING CONTROLLER(S) AND DEVICE PLATES SHALL MATCH THE COLOR OF ALL OTHER WIRING DEVICE/DEVICE PLATES CONNECTED TO NORMAL POWER.
(E18)	SAME AS FIXTURE "E17" WITH THE ADDITION OF AN INTEGRAL INVERTER AND BATTERY BACK-UP SYSTEM CAPABLE OF OPERATING FUTURE ON LOSS OF NORMAL POWER SOURCE FOR A MINIMUM OF 90 MINUTES CONTINUOUSLY WITH AN OUTPUT OF 1400 LUMENS	LITHONIA METALUX TSD	FSL SERIES 2PRF SERIES TSD	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	BATH WHITE	—	1. PROVIDE FIXTURE(S) WITH SLIDE-TO-OFF TYPE, 0 TO 10V DIMMING CONTROLLER(S) (SWITCH AS INDICATED ON THE LIGHTING PLANS). FULLY COMPATIBLE WITH AND RATED FOR OPERATION WITH FIXTURES. FINISH COLOR OF DIMMING CONTROLLER(S) AND DEVICE PLATES SHALL MATCH THE COLOR OF ALL OTHER WIRING DEVICE/DEVICE PLATES CONNECTED TO NORMAL POWER.
(E19)	4" APERTURE, AERIAL DISTRIBUTION DOWNLIGHT WITH FAIR AERIAL DOWNLIGHT REFLECTOR AND A MAXIMUM FUTURE DEPTH OF 7" WHITE TRIM, DIMMABLE USHG 0-10V CONTROLS DOWN TO 1% 2800 LUMEN OUTPUT	PATHWAY TSD	CALIBER PLUS SERIES WITH GFI TSD	LED9 300K (30,000 HRS WITH 80% LUMEN MAINTENANCE) 60 CR	QNTY AS REQUIRED	W/ JOURNAL FUTURE INPUT WATTS	120/277 (60/24 VOLT)	—	RECESSED	—	—	1. PROVIDE FIXTURE(S) WITH SLIDE-TO-OFF TYPE, 0 TO 10V DIMMING CONTROLLER(S) (SWITCH AS INDICATED ON THE LIGHTING PLANS). FULLY COMPATIBLE WITH AND RATED FOR OPERATION WITH FIXTURES. FINISH COLOR OF DIMMING CONTROLLER(S) AND DEVICE PLATES SHALL MATCH THE COLOR OF ALL OTHER WIRING DEVICE/DEVICE PLATES CONNECTED TO NORMAL POWER.

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Not for
Construction
10/16/2019
11:58:15 AM

Revisions:		
#	Description	Date

Designed By: CWW
Drawn By: SDB
Checked By: ADB
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Sheet title:

LIGHTING FIXTURE SCHEDULE

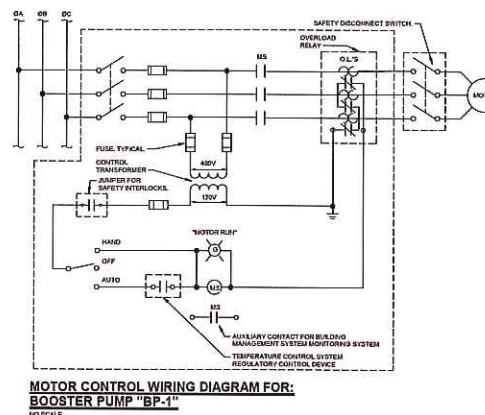
Architect's Project No: Date:

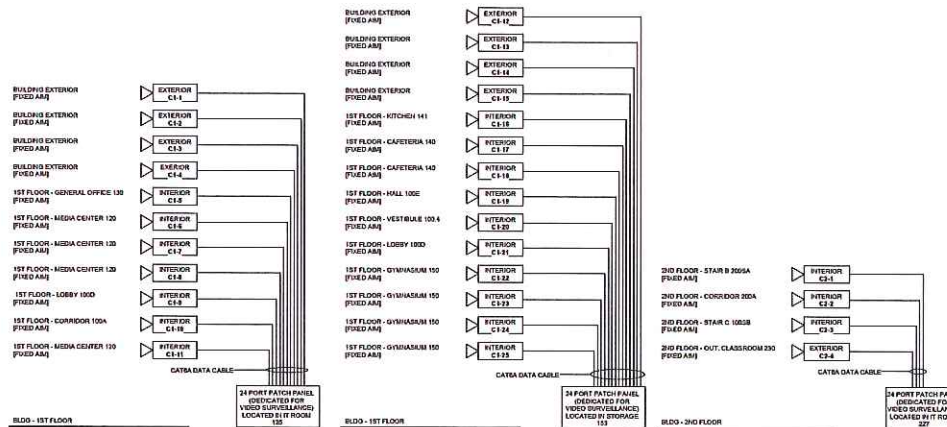
1807-244 October, 2019

Drawing No:

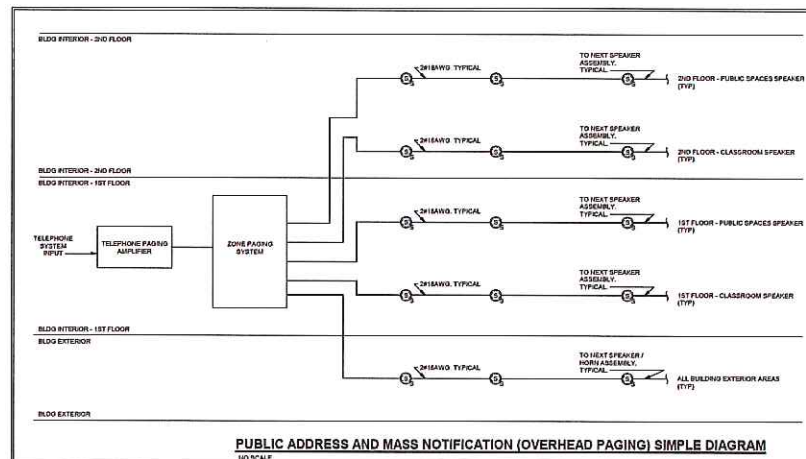
E1.2

E1.5





CAMERA SCHEDULE (VIDEO SURVEILLANCE SYSTEM)			
COPY THE FOLLOWING REQUIREMENTS PRIOR TO PURCHASE			
CAM #	CAMERA LOCATION	ROOM FOR NETWORK FEED	ADDITIONAL VIEWING REQUIREMENTS
C-1	BUILDING EXTERIOR	IT ROOM 125	MAXIMUM VIEW OF PERSONS WITHIN CORRIDORS 310A, 310B, AND EXITS ELEVATOR.
C-2	BUILDING EXTERIOR	IT ROOM 125	MAXIMUM VIEW OF PERSONS WITHIN CORRIDORS 310A, 310B, AND EXITS ELEVATOR.
C-3	BUILDING EXTERIOR	IT ROOM 125	MAXIMUM VIEW OF PERSONS WITHIN CORRIDORS 310A, 310B, AND 311.
C-4	BUILDING EXTERIOR	IT ROOM 125	MAXIMUM VIEW OF PERSONS WITHIN CORRIDORS 310A, 311, AND 312.
C-5	1ST FLOOR - GENERAL OFFICE 130	IT ROOM 125	MAXIMUM VIEW OF PERSONS WITHIN CORRIDOR 305B.
C-6	1ST FLOOR - MEDIA CENTER 120	IT ROOM 125	MAXIMUM VIEW OF PERSONS WITHIN CORRIDORS 3071 AND 3087.
C-7	1ST FLOOR - MEDIA CENTER 120	IT ROOM 125	MAXIMUM VIEW OF PERSONS WITHIN CORRIDORS 3071 AND 3087.
C-8	1ST FLOOR - MEDIA CENTER 120	IT ROOM 125	MAXIMUM VIEW OF PERSONS WITHIN CORRIDOR 312B AND PASSAGE 310A.
C-9	1ST FLOOR - LOBBY 1000	IT ROOM 125	MAXIMUM VIEW OF PERSONS WITHIN CORRIDOR 312A.
C-10	1ST FLOOR - CORRIDOR 100A	IT ROOM 125	MAXIMUM VIEW OF PERSONS EXITS ELEVATOR.
C-11	1ST FLOOR - MEDIA CENTER 120	IT ROOM 125	MAXIMUM VIEW OF PERSONS WITHIN CORRIDORS 3071 AND 3087.
C-12	BUILDING EXTERIOR	STORAGE 153	MAXIMUM VIEW OF PERSONS WITHIN CORRIDORS 3071 AND 3087.
C-13	BUILDING EXTERIOR	STORAGE 153	MAXIMUM VIEW OF PERSONS WITHIN CORRIDOR 312B AND PASSAGE 310A.
C-14	BUILDING EXTERIOR	STORAGE 153	MAXIMUM VIEW OF PERSONS WITHIN CORRIDOR 312A.
C-15	BUILDING EXTERIOR	STORAGE 153	MAXIMUM VIEW OF PERSONS EXITS ELEVATOR.
C-16	1ST FLOOR - KITCHEN 141	STORAGE 153	MAXIMUM VIEW OF PERSONS EXITS ELEVATOR.
C-17	1ST FLOOR - CAFETERIA 140	STORAGE 153	MAXIMUM VIEW OF PERSONS WITHIN CORRIDOR 312B AND PASSAGE 310A.
C-18	1ST FLOOR - CAFETERIA 140	STORAGE 153	MAXIMUM VIEW OF PERSONS WITHIN CORRIDOR 312A.
C-19	1ST FLOOR - HALL 100E	STORAGE 153	MAXIMUM VIEW OF PERSONS EXITS ELEVATOR.
C-20	1ST FLOOR - VESTIBULE 100A	STORAGE 153	MAXIMUM VIEW OF PERSONS WITHIN CORRIDORS 3071 AND 3087.
C-21	1ST FLOOR - LOBBY 1000	STORAGE 153	MAXIMUM VIEW OF PERSONS WITHIN CORRIDORS 3071 AND 3087.
C-22	1ST FLOOR - GYMNASIUM 150	STORAGE 153	MAXIMUM VIEW OF PERSONS WITHIN CORRIDOR 312B AND PASSAGE 310A.
C-23	1ST FLOOR - GYMNASIUM 150	STORAGE 153	MAXIMUM VIEW OF PERSONS WITHIN CORRIDOR 312A.
C-24	1ST FLOOR - GYMNASIUM 150	STORAGE 153	MAXIMUM VIEW OF PERSONS EXITS ELEVATOR.
C-25	2ND FLOOR - STAIR B 205A	IT ROOM 227	MAXIMUM VIEW OF PERSONS WITHIN CORRIDOR 312A.
C-26	2ND FLOOR - CORRIDOR 20A	IT ROOM 227	MAXIMUM VIEW OF PERSONS EXITS ELEVATOR.
C-27	2ND FLOOR - STAIR C 1020B	IT ROOM 227	MAXIMUM VIEW OF PERSONS EXITS ELEVATOR.
C-28	2ND FLOOR - OUT. CLASSROOM 220	IT ROOM 227	MAXIMUM VIEW OF PERSONS EXITS ELEVATOR.



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Telephone: 275.828.8178

Not for Construction
10/16/2019
11:58:21 AM

Revisions:

#	Description	Date

Designed By: **CSW** Drawn By: **SSB** Checked By: **ASB**

The drawings, specifications and other documents, including but not limited to, shall be used in conjunction with the project as a whole. The drawings shall not be used in isolation or modified by a third party without the express written approval of Haffer. Additional work or changes to the drawings shall be made by Haffer and shall be made in accordance with the project. Haffer shall not be responsible for any errors or omissions in the drawings or specifications. Haffer shall not be responsible for any errors or omissions in the drawings or specifications. Haffer shall not be responsible for any errors or omissions in the drawings or specifications.

Sheet 106:

ELECTRICAL DETAILS (CONTINUED)

Architect's Project No: Date: 1807-244 October, 2019

Drawing No: **E1.6**