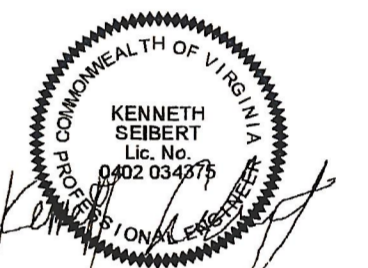




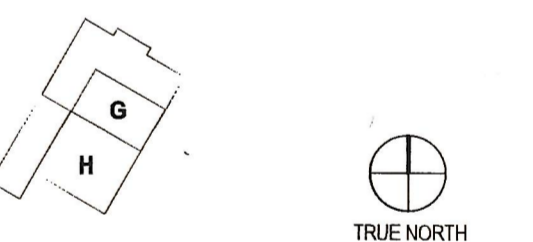
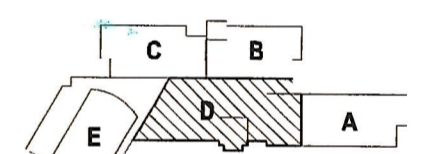
PAUL VI CATHOLIC HIGH SCHOOL

CATHOLIC DIOCESE OF ARLINGTON
200 North Glebe Road
Arlington, VA 22203
Loudoun County ZCPA Number
VMDO Project Number

2016-0005
15.1188



Checked By DRH
Drawn By CMG



GRAPHIC SCALE - 12" = 1'-0"
0 0'-1" 0'-2" 0'-3"

ISSUES AND REVISIONS
NO. SUBMITTAL 100% CONSTRUCTION DOCUMENTS DATE 03.17.17

FLOOR PLAN LEVEL 1 AREA D - AIR DISTRIBUTION

M114

GENERAL NOTES: AIR DISTRIBUTION

- A. CONTRACTOR RESPONSIBLE FOR LOCATING ALL HORIZONTAL UNITS CONCEALED ABOVE THE CEILING SO THAT ALL REQUIRED CLEARANCES ARE MAINTAINED AND COORDINATED WITH ALL TRADES. REFER TO INSTALLATION DETAILS ON SHEET M601. PROVIDE ACCESS DOOR IF REQUIRED.
- B. CONTRACTOR RESPONSIBLE FOR LOCATING ALL DAMPERS IN DUCTWORK SO THAT ACCESSIBILITY IS MAINTAINED. COORDINATE WITH CEILING SYSTEM. PROVIDE ACCESS DOOR IF REQUIRED.
- C. PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT. REFER TO THE DETAIL ON SHEET M600 FOR SPECIFIC REQUIREMENTS.
- D. NO DUCTWORK TO BE ROUTED OVER ELECTRICAL PANELS/TRANSFORMERS. REFER TO ELECTRICAL PLANS FOR EQUIPMENT LOCATIONS.
- E. REFER TO VERTICAL UNIT INSTALLATION DETAIL ON SHEET M601 FOR SPECIFIC REQUIREMENTS.
- F. REFER TO EXHAUST/RETURN AIR CANOPY DETAIL ON SHEET M600 FOR ADDITIONAL INFORMATION FOR E-6R-6 GRILLES.
- G. REFER TO CEILING CASSETTE INSTALLATION DETAIL ON SHEET M601 FOR SPECIFIC REQUIREMENTS.
- H. REFER TO OUTDOOR AIR SCHEDULE FOR REQUIRED CFM AND DUCT RUN-OUT SIZE FOR ALL OUTSIDE AIR DUCTWORK ROUTED TO AC UNITS.
- I. MAINTAIN MANUFACTURERS RECOMMENDED SERVICE CLEARANCE FOR ALL VAV BOXES. REFER TO DETAIL ON SHEET M600 FOR ADDITIONAL INFORMATION.

KEYNOTES

- A4 PROVIDE 16"x8" SHEET METAL SLEEVE IN WALL ABOVE CEILING FOR EXHAUST AIR PATH. EXTEND SLEEVE 6" ON BOTH SIDE OF WALL.
- A33 PROVIDE FIRE/SMOKE COMBINATION DAMPER AT SLABWALL PENETRATION. INSTALL ACCESS PANEL AND MAINTAIN SERVICE ACCESS. REFER TO THE DETAIL ON SHEET M600 FOR ADDITIONAL INFORMATION.
- A34 DUCT MOUNTED SMOKE DETECTOR. COORDINATE INSTALLATION WITH ELECTRIC CONTRACTOR.
- A35 DUCTWORK UP TO FLOOR ABOVE. REFER TO SHEET M124 FOR CONTINUATION.
- A36 DUCTWORK UP TO ROOFTOP UNIT. TRANSITION TO UNIT OPENING AS REQUIRED.
- A37 DUCTWORK UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN OPENING AS REQUIRED.
- A38 PROVIDE ACOUSTICAL WRAP ON 25' OF DUCTWORK INDICATED (HATCH PATTERN). REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- A39 INTERNALLY LINE 25' OF DUCTWORK INDICATED (HATCH PATTERN) WITH 1/2" ELASTOMERIC INSULATION.
- A40 DUCTWORK DOWN TO FLOOR BELOW. REFER TO SHEET M104 FOR CONTINUATION.
- A41 PROVIDE A MINIMUM OF 2'-0" CLEARANCE FROM BLADES TO STRUCTURE CEILING AND LIGHTS. COORDINATE WITH LIGHTING LAYOUT. INCLUDE MISCELLANEOUS STEEL/UN-STRUT TO INSTALL FANS. PAINT STEEL TO MATCH ADJACENT SURFACES. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
- A43 DUCTWORK UP TO FLOOR ABOVE. REFER TO SHEET M123 FOR CONTINUATION.
- A44 DUCTWORK DOWN TO FLOOR BELOW. REFER TO SHEET M105 FOR CONTINUATION.
- A57 ROUTE OF DRYER VENT UP TO ROOF. REFER TO DETAIL ON SHEET M602 FOR ADDITIONAL INFORMATION. PROVIDE CLEANOUTS AS REQUIRED.
- A65 DIFFUSERS SHALL BE DUCT MOUNTED TO BOTTOM OF DUCTWORK AND LOCATED ABOVE CEILING.
- A70 ROUTE DUCTWORK THROUGH HOLE IN BEAM. COORDINATE HOLE LOCATION WITH STRUCTURAL DRAWINGS.
- A78 INTERNALLY LINE DUCTWORK INDICATED (HATCH PATTERN) WITH 1/2" ELASTOMERIC INSULATION. MOUNT SIDEWALL GRILLE IN FACE OF SOFFIT. CENTER LINE OF GRILLE TO BE AT 11'-0" AFF.

GRD RUNOUT SCHEDULE					
DIFFUSER	DUCT SIZE	DIFFUSER	DUCT SIZE	GRILLE	DUCT SIZE
S-1	6"	R-1	6"	E-1	6"
S-2	8"	R-2	8"	E-2	8"
S-3	10"	R-3	10"	E-3	10"
S-4	12"	R-4	12"	E-4	12"
S-5	36x4	R-5	14"	E-5	14"
S-6	10"	R-6	22x22	E-6	22x22
S-7	24x6	R-7	16x8	E-7	10x4
S-8	10'12"	R-8	36x12	E-8	16x8
S-9	10x4	R-9	8"	E-9	36x12
S-10	12x6	R-10	8"	E-10	8"
S-11	18x8	R-11	12"	E-11	8"
S-12	20x10	R-12	14"	E-12	10"
S-13	8"			E-13	14"
S-14	6"				
S-15	8"				
S-16	10"				
S-17	12"				

CASSETTE OA RUNOUT SCHEDULE					
UNIT	AIRFLOW	DUCT SIZE	UNIT	AIRFLOW	DUCT SIZE
AC-7.5MC 0400	25	6"	AC-9.5MC 1304C	25	6"
AC-7.5MC 0411	25	6"	AC-12MC 1808	25	6"
AC-7.5MC 0622B	25	6"	AC-12MC 1810	25	6"
AC-7.5MC 0809E	50	6"	AC-18MC 1811	25	6"
AC-12MC 0813E	25	6"	AC-18MC 1813	125	8"
AC-7.5MC 1304A	25	6"	AC-12MC 2307A	25	6"
AC-18MC 1304B	75	6"			

VERTICAL OA RUNOUT SCHEDULE					
UNIT	AIRFLOW	DUCT SIZE	UNIT	AIRFLOW	DUCT SIZE
AC-36V 0787	400	10x10	AC-18V 1216	100	6"
AC-24V 1101	100	10"	AC-18V 1221	150	6"
AC-12V 1109	150	6"	AC-24V 1222	300	10"
AC-18V 1120	100	6"	AC-18V 1341	150	6"
AC-12V 1200	125	6"	AC-18V 1253	175	6"
AC-18V 1203	150	6"	AC-24V 1701	750	12"x12"
AC-18V 1208	125	6"			

HORIZONTAL OA RUNOUT SCHEDULE					
UNIT	AIRFLOW	DUCT SIZE	UNIT	AIRFLOW	DUCT SIZE
AC-12H 0304	100	6"	AC-12H 1302	125	8"
AC-24H 0501	50	6"	AC-18H 1410	175	8"
AC-12H 0602	150	6"	AC-18H 1512	150	8"
AC-24H 0700	100	6"	AC-36H 1601	100	6"
AC-12H 1108	50	6"	AC-36H 1701A	75	6"
AC-12H 1114	50	6"	AC-8.5H 1703	75	6"
AC-8.5H 1118	50	6"	AC-12H 2302	125	8"
AC-8.5H 1261	100	6"	AC-36H 2302	350	10"

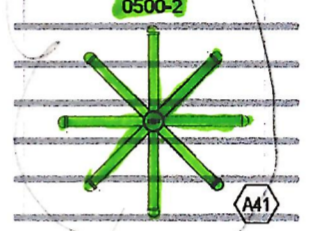
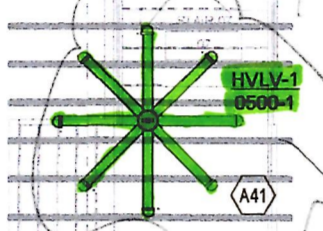
VAV DUCT RUNOUT SCHEDULE			
TAG	DUCT SIZE	TAG	DUCT SIZE
VAV-05	6"	VAV-10	10"
VAV-06	6"	VAV-12	12"
VAV-08	8"	VAV-14	14"

~~Deleted Controls~~
Wall Controller location M-114
S/S Static Speed

Riser pipe

Riser pipe

REC 15



Pressure sensor
2/3 Static
Pulled 4/10/19

Not framed
11/2/19

Start goes to VAV-M
1400 A-1

Room Stat for Ex fan 12
w/ Light and Motion sensors

Slab pipe into adjacent room
office workroom 1403

T-Stats
VRF
CEFS
Duct Smoke Det
Elec. Headers