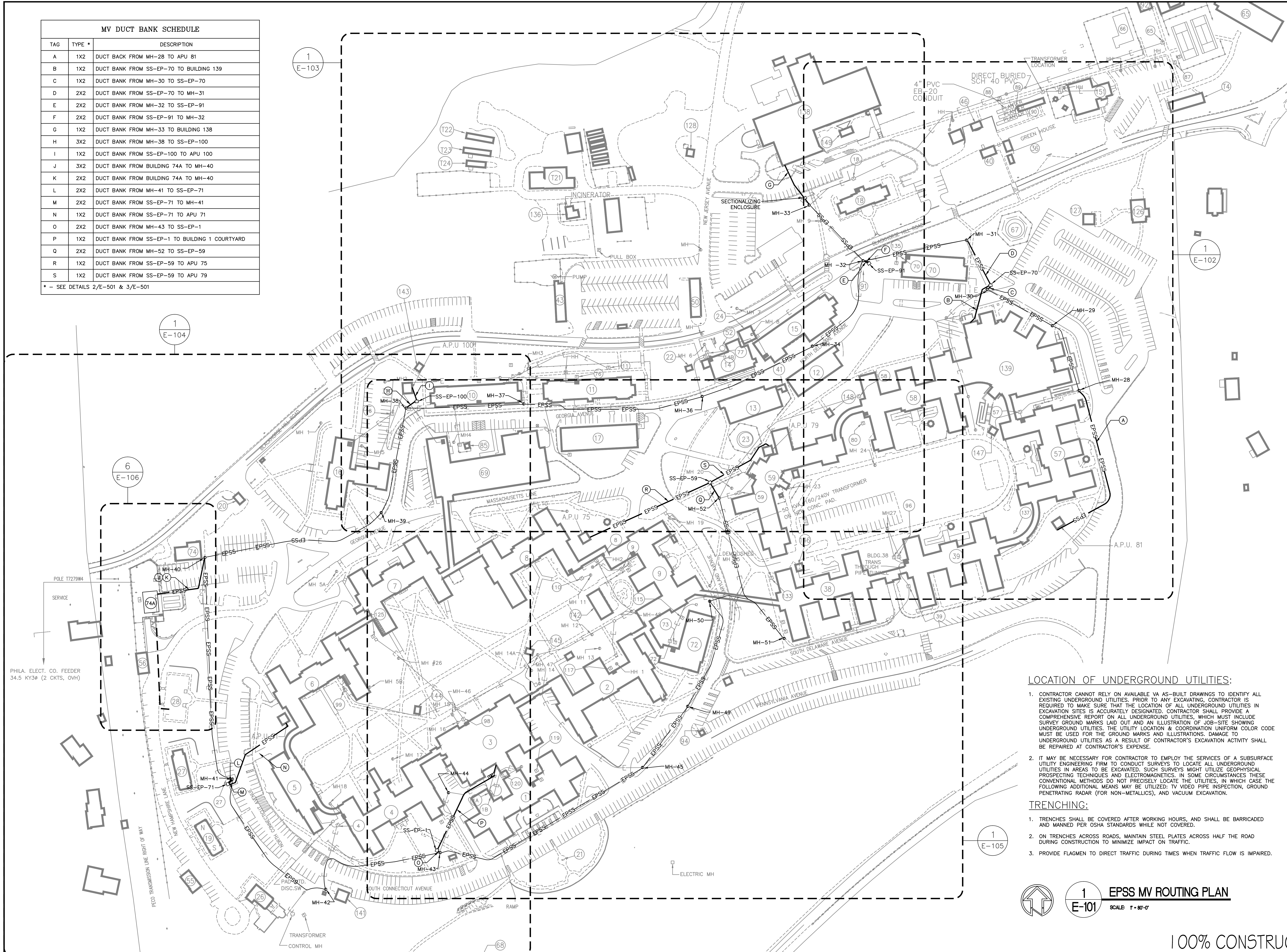


three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

MV DUCT BANK SCHEDULE		
TAG	TYPE	DESCRIPTION
A	1X2	DUCT BANK FROM MH-28 TO APU 81
B	1X2	DUCT BANK FROM SS-EP-70 TO BUILDING 139
C	1X2	DUCT BANK FROM MH-30 TO SS-EP-70
D	2X2	DUCT BANK FROM SS-EP-70 TO MH-31
E	2X2	DUCT BANK FROM MH-32 TO SS-EP-91
F	2X2	DUCT BANK FROM SS-EP-91 TO MH-32
G	1X2	DUCT BANK FROM MH-33 TO BUILDING 138
H	3X2	DUCT BANK FROM MH-38 TO SS-EP-100
I	1X2	DUCT BANK FROM SS-EP-100 TO APU 100
J	3X2	DUCT BANK FROM BUILDING 74A TO MH-40
K	2X2	DUCT BANK FROM BUILDING 74A TO MH-40
L	2X2	DUCT BANK FROM MH-41 TO SS-EP-71
M	2X2	DUCT BANK FROM SS-EP-71 TO MH-41
N	1X2	DUCT BANK FROM SS-EP-71 TO APU 71
O	2X2	DUCT BANK FROM MH-43 TO SS-EP-1
P	1X2	DUCT BANK FROM SS-EP-1 TO BUILDING 1 COURTYARD
Q	2X2	DUCT BANK FROM MH-52 TO SS-EP-59
R	1X2	DUCT BANK FROM SS-EP-59 TO APU 75
S	1X2	DUCT BANK FROM SS-EP-59 TO APU 79

\* - SEE DETAILS 2/E-501 & 3/E-501



**LOCATION OF UNDERGROUND UTILITIES:**

1. CONTRACTOR CANNOT RELY ON AVAILABLE VA AS-BUILT DRAWINGS TO IDENTIFY ALL EXISTING UNDERGROUND UTILITIES. PRIOR TO ANY EXCAVATING, CONTRACTOR IS REQUIRED TO MAKE SURE THAT THE LOCATION OF ALL UNDERGROUND UTILITIES IN EXCAVATION SITES IS ACCURATELY DESIGNATED. CONTRACTOR SHALL PROVIDE A COMPREHENSIVE REPORT ON ALL UNDERGROUND UTILITIES, WHICH MUST INCLUDE SURVEY GROUND MARKS LAID OUT AND AN ILLUSTRATION OF JOB-SITE SHOWING UNDERGROUND UTILITIES. THE UTILITY LOCATION COORDINATION UNIFORM COLOR CODE MUST BE USED FOR THE GROUND MARKS AND ILLUSTRATIONS. DAMAGE TO UNDERGROUND UTILITIES AS A RESULT OF CONTRACTOR'S EXCAVATION ACTIVITY SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

2. IT MAY BE NECESSARY FOR CONTRACTOR TO EMPLOY THE SERVICES OF A SUBSURFACE UTILITY ENGINEERING FIRM TO CONDUCT SURVEYS TO LOCATE ALL UNDERGROUND UTILITIES IN AREAS TO BE EXCAVATED. SUCH SURVEYS MIGHT UTILIZE GEOPHYSICAL PROSPECTING TECHNIQUES AND ELECTROMAGNETICS. IN SOME CIRCUMSTANCES THESE CONVENTIONAL METHODS DO NOT PRECISELY LOCATE THE UTILITIES. IN WHICH CASE THE FOLLOWING ADDITIONAL MEANS MAY BE UTILIZED: TV VIDEO PIPE INSPECTION, GROUND PENETRATING RADAR (FOR NON-METALLICS), AND VACUUM EXCAVATION.

**TRENCHING:**

1. TRENCHES SHALL BE COVERED AFTER WORKING HOURS, AND SHALL BE BARRICADED AND MANNED PER OSHA STANDARDS WHILE NOT COVERED.

2. ON TRENCHES ACROSS ROADS, MAINTAIN STEEL PLATES ACROSS HALF THE ROAD DURING CONSTRUCTION TO MINIMIZE IMPACT ON TRAFFIC.

3. PROVIDE FLAGMEN TO DIRECT TRAFFIC DURING TIMES WHEN TRAFFIC FLOW IS IMPAIRED.

**1 EPSS MV ROUTING PLAN**  
E-101 SCALE 1"=80'-0"

NO	BUILDING SCHEDULE
1	ADMINISTRATION BUILDING
2	PATIENT BUILDING
3	DINING HALL
4	NEUROLOGICAL BUILDING
5	RECREATION BUILDING
6	PATIENT BUILDING
7	PATIENT BUILDING
8	PATIENT BUILDING
9	PATIENT BUILDING
10	DOMICILIARY
11	RESEARCH BUILDING
12	FIREHOUSE & EQUIP. MAINTENANCE
13	SUPPLY WAREHOUSE
14	BOILER HOUSE
15	BUILDING MAINTENANCE
16	ADMINISTRATION BUILDING
17	CHILLER BUILDING
18	APARTMENT BUILDING 6APTS
19	DUPLEX QUARTERS
20	GATE HOUSE
21	FLAGPOLE
22	GAS METER HOUSE
23	WATER TANK AND TOWER
24	STORAGE
25	SOUTH PUMP HOUSE
26	RESIDENCE-DIRECTOR'S
27	DUPLEX QUARTERS
28	DUPLEX QUARTERS
36	GREEN HOUSE
38	PATIENT BUILDING
39	PATIENT BUILDING
40	GARDENER'S TOOL SHED/OFFICE
41	OIL HOUSE
43	GARAGE
46	GARDENER'S STORAGE
50	GARAGE
52	RADIAL BRICK CHIMNEY
53	NORTH PUMP HOUSE AND WELL
55	THREE CAR GARAGE
56	FOUR CAR GARAGE
57	PATIENT BUILDING
58	PATIENT BUILDING
59	PATIENT BUILDING
63	DEEP WELL PUMP HOUSE
65	GRAND STAND
66	SWIMMING POOL
67	WATER TANK AND TOWER
68	PICNIC PAVILION
69	KINESOTHERAPY BUILDING
70	ENGINEERING BUILDING
71	EMERGENCY A.P.U. 71 BUILDING
72	CHAPEL
73	TRANSFORMER
74	MAIN SUB STATION
74A	EMERGENCY GENERATOR BUILDING
75	EMERGENCY A.P.U. 75 BUILDING
76	TRANSFORMER
77	TRANSFORMER
79	EMERGENCY A.P.U. 79 BUILDING
80	TRANSFORMER
81	EMERGENCY A.P.U. 81 BUILDING
83	AIR COOL CONDENSER UNIT
85	WATER TANK AND TOWER
86	OIL STORAGE TANK
87	TRANSFORMER
88	COLD FRAME
89	COLD FRAME
90	COLD FRAME
91	SUB GRADE BRINE TANK
92	PICNIC PAVILION
93	POOL FILTER HOUSE
94	BUS STOP
95	TRANSFORMER
96	TRANSFORMER
97	TRANSFORMER
98	TRANSFORMER
99	TRANSFORMER
100	EMERGENCY A.P.U. 100 BUILDING
106	CONDENSER
107	TRANSFORMER
110	TRANSFORMER
111	CONDENSER
114	CONDENSER
115	TRANSFORMER
116	CONDENSER
117	TRANSFORMER
118	CONDENSER
119	TRANSFORMER
120	TRANSFORMER
121	CONDENSER
122	TRANSFORMER
123	CONDENSER
124	CONDENSER
125	TRANSFORMER
126	PICNIC PAVILION
127	REST ROOM
128	OXYGEN STORAGE PAD
129	OXYGEN STORAGE TANK
130	OIL PUMP HOUSE
131	TRANSFORMER
132	TRANSFORMER
133	TRANSFORMER
134	TRANSFORMER
135	TRANSFORMER
136	INCINERATOR GAS
137	BAR-B-QUE
138	120 BED NURSING HOME CARE
139	NEW KITCHEN AND DINING HALL
141	OXYGEN STORAGE TANK
T-4	ATHLETIC FIELD HOUSE
T-21	GROUPS MAINTENANCE STORAGE
T-22	GROUPS MAINTENANCE STORAGE
T-23	GROUPS MAINTENANCE STORAGE
T-24	GROUPS MAINTENANCE STORAGE
T-25	OFFICE
142	PICNIC PAVILION
143	SMOKING SHELTERS
144	SMOKING SHELTERS
145	SMOKING SHELTERS
146	SMOKING SHELTERS
147	SMOKING SHELTERS
148	SMOKING SHELTERS
149	SMOKING SHELTERS

100% CONSTRUCTION DOCUMENTS

Revisions

Date

1

2

3

4

5

6

7

8

9

**ENGINEERS/ARCHITECT:**

**APOGEE**

Raleigh, NC  
Indianapolis, IN  
Atlanta, GA  
Columbia, MD  
www.aog-pa.com  
(819) 858-7420  
Apogee Project # 2010 228

**WALDON STUDIO**

ARCHITECTS & PLANNERS, PC  
6325 Woodside Court, Suite 310  
Columbia, Maryland 21046  
Tel: 410.290.9580 Fax: 410.290.5777  
www.waldonstudio.com

**WSP**

SELLS

LandDesign

Transportation & Infrastructure

Professional Stamp/Seal

Drawing Title

**EMERGENCY POWER SUPPLY SYSTEM (EPSS) MEDIUM VOLTAGE (MV) ROUTING PLAN**

Project Title

COATESVILLE - VA MEDICAL CENTER AVE INSTALL EMERGENCY GENERATOR

Date

9/23/11

Project No.

542-11-104

Drawing No.

**E-101**

Dwg. 2 of 16

Drawn

DJR/NAC

Checked

JMB/JDC

Building Number

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Location

COATESVILLE, PENNSYLVANIA

**VA**