Department of Veterans Affairs

Medical Center
325 New Castle Road
Butler, PA 16001-2480

Project: 529-09-116
Backflow Prevention

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GENERAL NOTES

GENERAL NOTES

A. THESE DRAWINGS ARE INTENDED TO DEFINE THE SCOPE AND GENERAL ARRANGEMENT/LAYOUT OF THE PIPING WORK. DO NOT SCALE THESE DRAWINGS FOR THE PURPOSE OF EXCAVATION OR FABRICATION.

B. THESE DRAWINGS HAVE BEEN DEVELOPED USING THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING AND ADDRESSING UNDERGROUND PIPING AS IT AFFECTS HIS SCOPE OF WORK. ANY DISCREPANCIES ENCOUNTERED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE BUTLER VA FOR RESOLUTION.

C. THE CONTRACTOR SHALL VISIT THE WORK SITE TO FAMILIARIZE HIMSELF WITH CONDITIONS. HE SHALL MAKE ALL NECESSARY INVESTIGATIONS AND INQUIRIES WITH REGARD TO THE WORK SO THAT HE THOROUGHLY UNDERSTANDS HIS RESPONSIBILITIES REGARDING SAME PRIOR TO BIDDING.

D. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND DETAILS OF THE EXISTING SITE CONDITIONS BEFORE ORDERING MATERIAL OR PROCEEDING WITH WORK.

E. WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, AND REGULATIONS, AS WELL AS VETERAN'S ADMINISTRATION STANDARD PRACTICES. UNLESS SPECIFIED OTHERWISE, THE LATEST EDITIONS, REVISIONS, AND ADDENDA ASSOCIATED WITH THE REFERENCE CODES AND STANDARDS SHALL APPLY.

F. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, FEES, AND INSPECTIONS.

G. ALL COMPONENTS AND MATERIALS, SUPPLIED BY THE CONTRACTOR, SHALL BE NEW AND FREE OF DEFECTS. THE USE OF REFURBISHED, REMANUFACTURED OR USED MATERIALS IS PROHIBITED.

H. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL WALL, CEILINGS, FLOORS, EXTERIOR CONCRETE SLABS, AND SITE ELEMENTS SHALL BE RESTORED AND FINISHED TO MATCH SURROUNDING CONDITIONS TO THE SATISFACTION OF THE PROJECT MANAGER.

GENERAL NOTES

GENERAL NOTES, CONT.

I. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF DRAWINGS ON SITE AND RECORD THE "AS-BUILT" CONDITIONS OF THE PROJECT. THE "AS-BUILTS" SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

J. INSTALL ALL COMPONENTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

K. ALL DEBRIS RESULTING FROM THE WORK AND ASSOCIATED SITE IMPROVEMENTS SHALL BE DISPOSED OF OFF SITE. UNDER NO CIRCUMSTANCES SHALL DEBRIS BE USED AS BACKFILL OR FILL MATERIAL ON SITE, UNLESS APPROVED BY THE VA PROJECT MANAGER.

L. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITY TO MINIMIZE DISTURBANCE TO ANY ON GOING VETERAN'S ADMINISTRATION OPERATIONS AT THE SITE. DO NOT BLOCK ACCESS TO THE SITE AND COORDINATE DELIVERIES AND CONSTRUCTION OPERATIONS WITH THE VETERAN'S ADMINISTRATION PROJECT MANAGER.

M. PRIOR TO STARTING CONSTRUCTION ALL SUBMITTALS MUST BE APPROVED,

N. PORTIONS OF THIS WORK SHALL BE PERFORMED BETWEEN THE HOURS OF 4:00 PM AND 12:00 PM, AS DIRECTED BY AND AT THE DISCRETION OF THE VA PROJECT MANAGER.

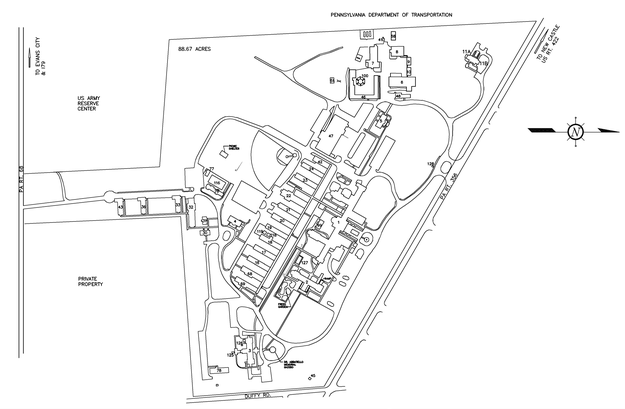
O. ALL SHUT-DOWNS OF SYSTEMS (FIRE, PLUMBING, ELECTRIC, ETC.) AND SERVICE INTERRUPTIONS MUST BE APPROVED BY THE VA PROJECT MANAGER AT LEAST ONE WEEK IN ADVANCE. SUBMIT PROPOSED LOCATION, TIME, AND LENGTH OF SHUT-DOWN IN WRITING TO THE VA PROJECT MANAGER AT LEAST TWO WEEKS IN ADVANCE OF EACH SHUT-DOWN.

P. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE THE DURATION OF EACH SHUT DOWN. THIS INCLUDES INSTALLING NEW PIPING AND EQUIPMENT WHILE EXISTING PIPING AND EQUIPMENT REMAINS IN PLACE AND OPERATIONAL. ALL CONNECTIONS FROM EXISTING TO NEW SYSTEMS SHALL BE ACCOMPLISHED AS QUICKLY AS POSSIBLE.

Q. ALL DIMENSIONS AND PIPE SIZES SHOWN ON DRAWINGS MUST BE FIELD VERIFIED PRIOR TO INSTALLATION.

R. SCHEDULE 10 COORDINATION MEETINGS WITH VA FACILITY MANAGEMENT THROUGHOUT THE PROJECT. EACH MEETING SHALL BE HELD TO COORDINATE ANTICIPATED WORK AT LEAST 2 WEEKS IN ADVANCE OF THE WORK.

VICINITY MAP



Revisions:	Date

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CORRECT SCALE

AE PROJ. NO. A9-130 / 09-044

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL DAVID L. VOLK ENGINEER PE-036868-E
09/02/09

Drawing Title	COVER SHEET
Project Title	Backflow Prevention
Project Number	VA529-09-116
Building Numbers	All
Approved: Project Director	
Location	VA Medical Center - Butler, PA 16001
Date	SEPTEMBER 2, 2009
Checked	DWB
Drawn	DLV
Drawing Number	GI001
Dwg. 1 of 7	

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

Number	Date Photo Taken (Photo Folder)	Building Number	Building Description	Room No.	Room Description	Existing Equipment Description	Type of Existing Backflow Protection Device to Be Removed	Photo (s)	Aproximate Line Size, Inches (Field Verify)	Notes	Required Backflow Prevention Device	Plan or Detail Reference
1	12/4/08	1	Hospital		By Standpipe outside Canteen	Hose Bibb		CIMG3027	3/4		HVB	6/PL201
2	12/4/08	1	Hospital		Backside next to sub basement stairwell	Hose Bibb		CIMG3028	3/4		HVB	6/PL201
3	12/4/08	1	Hospital		East End of Telephone Operator Room	Hose Bibb		CIMG3031	3/4		HVB	6/PL201
4	12/4/08	1	Hospital		Loading Dock Main Door	Wall Hydrant		CIMG3032	3/4		AVB	3/PL201
5	12/4/08	1	Hospital		Loading Dock Platform	Hose Bibb		CIMG3033	3/4		HVB	6/PL201
6	12/4/08	1	Hospital		Outside Auditorium	Hose Bibb		CIMG3034	3/4		HVB	6/PL201
7	12/4/08	1	Hospital		Left Side Main Entrance	Hose Bibb		CIMG3035	3/4		HVB	6/PL201
8	12/4/08	1	Hospital		Subbasement Stairwell	Fire Entrance	Single Check Valve	CIMG3038	6		DCV-UL	1/PL101, 2/PL101
9	12/4/08	1	Hospital	SPSB07-1	Plumbing Shop	HB	HB	CIMG3039	3/4		PVB	1/PL201
10	12/4/08	1	Hospital	SPSB01-1	Mechanical Room	Hose Bib on Column	AVB	CIMG3040	3/4		PVB	1/PL201
11	12/4/08	1	Hospital			Hot Water		CIMG3042	1	Remove this dead leg.		NONE
12	12/4/08	1	Hospital	SPB09E-1	Office Staff	Laundry Tub		CIMG3044			HVB	6/PL201
13	12/4/08	1	Hospital	SPB16EC-1	Loading Dock	HW & CW Hose Connection	AVB	CIMG3045	3/4	Provide check valves on hot and cold water to avoid mixing.	PVB	3/PL201
14	12/4/08	1	Hospital	SPB22EW-1	Mechanical Room	Laundry Sink		CIMG3046			HVB	6/PL201
15	12/4/08	1	Hospital		Main Kitchen	HW & CW Hose Connection attached to ECOLAB Control Tower IV Quart Sanitizer, by dishwasher.	AVB	CIMG3047, CIMG3048, CIMG3049	3/4		PVB or RP	1/PL201 or 7/PL201
16	12/4/08	1	Hospital		Main Kitchen	Double Sink with sprayer by dishwasher		CIMG3050			AVB	3/PL201
17	12/4/08	1	Hospital		Main Kitchen	Ecolab dispenser line by dishwasher		CIMG3051	1/4		RP	7/PL201
18	12/4/08	1	Hospital		Main Kitchen	Softener by Chemical Storage Door		CIMG3057	1/2		AVB	3/PL201
19	12/4/08	1	Hospital		Main Kitchen	Coffee Urn 529 EE6725		CIMG3058		picture is in back of equipment	BDBP	4/PL201
20	12/4/08	1	Hospital		Main Kitchen	Cleveland Steamer 529 EE15 994	Watts 27/P2 BP	CIMG3059	3/8	picture is with door open	AVB	3/PL201
21	12/4/08	1	Hospital		Main Kitchen	Disconnected Filter		CIMG3062	1/2	Remove dead leg.		NONE
22	12/4/08	1	Hospital		Main Kitchen	Ball valve with hose connection and hose by large mixer		CIMG3064			AVB	3/PL201
23	12/4/08	1	Hospital		Main Kitchen	Single Bowl Sink with Hose Spray		CIMG3065			AVB for hose spray	3/PL201
24	12/4/08	1	Hospital		Main Kitchen	Drain from juice dispenser	air break	CIMG3066			AG	NONE
25	12/4/08	1	Hospital		Main Kitchen	Juice Dispenser		CIMG3067, CIMG3068	1/2		BDBP	4/PL201
26	12/4/08	1	Hospital		Main Kitchen	Javo Fine Coffee Dispenser		CIMG3069	1/2		BDBP	4/PL201
27	12/4/08	1	Hospital	SPB03E	Barber Shop	Sink and Washer		CIMG3070			FVB for spray attachment	5/PL201
28	12/4/08	1	Hospital	SPB01E-1	Kitchen Canteen	Proofer		CIMG3072, CIMG3073	1/4		PVB	1/PL201
29	12/4/08	1	Hospital	SPB01E-1	Kitchen Canteen	Steamer		CIMG3074			PVB	1/PL201
30	12/4/08	1	Hospital	SPB01E-1	Kitchen Canteen	3 Bowl Sink, Soap connection		CIMG3075			PVB or RP	1/PL201 or 7/PL201
31	12/4/08	1	Hospital	SPB03C-1	Kitchen Canteen	Steam Table		CIMG3077			DCV	2/PL201
32	12/4/08	1	Hospital	SPB03C-1	Kitchen Canteen	Water Hose Connection		CIMG3078			PVB	1/PL201
33	12/4/08	1	Hospital	SPB03C-1	Kitchen Canteen	Ice Dispenser		CIMG3080			DCV	2/PL201
34	12/4/08	1	Hospital	SPB03C-1	Kitchen Canteen	Water to Pop Dispenser		CIMG3081			BDBP	4/PL201
35	12/4/08	1	Hospital	SPB03C-1	Kitchen Canteen	Water to coffee and iced tea		CIMG3082			BDBP	4/PL201
36	12/4/08	1	Hospital	SPB06CA-1	ZZSPD	3 bowl sink, 1 faucet has hose connection		CIMG3084			FVB for faucet with hose connection	5/PL102
37	12/4/08	1	Hospital	SPB04CD-1	Mechanical Room	Hose Bibb		CIMG3088	3/4		HVB	6/PL201
38	12/4/08	1	Hospital	SPB04CDB-1	Utility Room Soiled	Connection to sterilizer		CIMG3089	1		RP	7/PL201
39	12/4/08	1	Hospital	SPB07-1	Shop Plumbing	Domestic Water Entrance		CIMG3092, CIMG3093	6		RP	1/PL101, 2/PL101
40	12/4/08	1	Hospital	SPB02-1	Mechanical Room	6" Fire splits off 6" domestic		CIMG3095			DCV-UL	3/PL101, 4/PL101
41	12/4/08	1	Hospital	SPB10W-1	Housekeeping	Service Sink		CIMG3096		Provide check valves on hot and cold water to avoid mixing.	(2) HVB - 1 ON EACH HOSE CONNECTION.	6/PL201

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42	12/4/08	1	Hospital	SPB02WH-1	Lab	Sink with hose		CIMG3097			FVB	5/PL201
43	12/4/08	1	Hospital	SPBB100WH	Lab	1/2 CW to DI Water		CIMG3098	1/2		RP	7/PL201
44	12/4/08	1	Hospital	SPB07WH-1	Storage	1/2 CW to DI Water		CIMG3099	1/2		RP	7/PL201
45	12/4/08	1	Hospital	SPCA16-1	General Film Processing			CIMG3101		Remove dead leg.		NONE
46	12/4/08	1	Hospital	SPCA05-1	Mechanical Room	Hose Connection		CIMG3102			HVB	6/PL201
47	12/4/08	1	Hospital		Outpatient Client Hallway	Ice Machine		CIMG3103	1/2		DCV	2/PL201
48	12/11/08	1	Hospital		Hallway by Room 240W	Ice Machine		CIMG0011, CIMG0012	1/2		DCV	2/PL201
49	12/11/08	1	Hospital	SP232E-1	Housekeeping Aid Closet	Service Sink	AVB	CIMG0013		Provide check valves on hot and cold water to avoid mixing.	PVB	1/PL201
50	12/11/08	1	Hospital	SP322E-1	Kitchen Nourishment	Ice Machine		CIMG0018, CIMG0019, CIMG0020	1/2		DCV	2/PL201
51	12/11/08	1	Hospital	SP330E-1	Housekeeping Aid Closet	Mop Receptor		CIMG0021		Provide check valves on hot and cold water to avoid mixing.	PVB	1/PL201
52	12/11/08	1	Hospital		Stairwell B, 4th Floor	Ice Machine		CIMG0024, CIMG0025	1/2		DCV	2/PL201
53	12/11/08	1	Hospital	402C	BK Kitchen	Ice Machine		CIMG0026, CIMG0027	1/2		DCV	2/PL201
54	12/11/08	1	Hospital	SP505CA-1	Lab	Dental Equipment Water Connection		CIMG0030	1/2		AVB	3/PL201
55	12/11/08	1	Hospital	SP503CA-1	Film Processing	Dead Leg		CIMG0031		Remove dead leg.		NONE
56	12/11/08	1	Hospital	SP519E-1	Lab	Model Trimmer		CIMG0038	1/2		PVB	1/PL201
57	12/11/08	1	Hospital	SPB03EN-1	Shop BioMed	HB Above Sink		CIMG0043	3/4		HVB	6/PL201
58	12/2/08	2	Office/Rehab	SPB06-2	Mechanical Room	4" Domestic, 4" Cap for Fire		CIMG0049, CIMG0050	4		RP	1/PL103, 2/PL103
59	12/2/08	2	Office/Rehab	SPB06-2	Mechanical Room	Hose Connection		CIMG0051	3/4		HVB	6/PL201
60	12/2/08	2	Office/Rehab	SPB04-2	Wheel Chair Repair Shop	Domestic Water Entrance		CIMG0052	1-1/2		RP	7/PL201
61	12/2/08	2	Office/Rehab	SPB05-2	Mechanical Room	Generator Hose Bibb		CIMG0053			HVB	6/PL201
62	12/2/08	2	Office/Rehab		2nd floor hallway	Ice Maker		CIMG0058			DCV	2/PL201
63	12/2/08	2	Office/Rehab		Outside	Hose Bibb by Main Entrance		CIMG0059			HVB	6/PL201
64	12/2/08	2	Office/Rehab		Outside East Side	Hose Bibb		CIMG0061			HVB	6/PL201
65	12/2/08	2	Office/Rehab		Outside West Corner	Hose Bibb		CIMG0062			HVB	6/PL201
66	12/2/08	3	Housing	SPB05-3	Mechanical Room	Domestic Water Entry		CIMG0039	2-1/2		RP	5/PL103, 6/PL103
67	12/2/08	3	Housing	SP202R-3	Toilet Congregate	Hose bibb off of shower		CIMG0043			HVB	6/PL201
68	12/2/08	3	Housing	Outside		Hose Bibb outside front entrance left side		CIMG0045			HVB	6/PL201
69	12/2/08	3	Housing	Outside		Hose Bibb outside by Siamese Connection		CIMG0046			HVB	6/PL201
70	12/2/08	3	Housing	Outside		Hose Bibb outside back of building left side by stairway		CIMG0047			HVB	6/PL201
71	12/2/08	4	Housing	SPB05-4	Unassigned	Dead Leg		CIMG0024	1	Remove dead leg.		NONE
72	12/2/08	4	Housing	SPB05-4	Unassigned	Laundry Tub		CIMG0025			HVB	6/PL201
73	12/2/08	4	Housing		Outside	HB Outside		CIMG0026	3/4		HVB	6/PL201
74	12/2/08	5	Housing	SPB02-5	Mechanical Room	Dead Leg		CIMG0005	1/2	Remove dead leg.		NONE
75	12/2/08					Frost Free Hydrant		CIMG0006		Intersection of B St. and Hospital Rd.	HVB	6/PL201
76	11/25/08	6	Laundry	SPB05A	General Storage (Basement)	Main water into building		CIM2765	2		RP	7/PL201
77	11/25/08	6	Laundry	SPB01	Mechanical Room	Cross connection to inactive service		CIM2766, CIM2767		Disconnect cross-connection.		3/PL103, 4/PL103
78	11/25/08	6	Laundry	SPB01	Mechanical Room	Hose Bibb		CIM2768			HVB	6/PL201
79	11/25/08	6	Laundry		Main Laundry	hose bib/hot & cold taps behind washer		CIM2770	1/2		HVB on hose bibb	6/PL201
80	11/25/08	6	Laundry		Main Laundry	hose reel		CIM2771	3/4		DCV	2/PL201
81	11/25/08	6	Laundry		Main Laundry	hot and cold to washing machine		CIM2772	2		RP	7/PL201
82	11/25/08	6	Laundry		Main Laundry	cold water to washer and detergent		CIM2773	1/2		PVB	1/PL201
83	11/25/08	6	Laundry		Main Laundry	Y connector to hose bib		CIM2774			HVB	6/PL201
84	11/25/08	6	Laundry		Main Laundry	Faucet double sink		CIM2775			HVB	6/PL201
85	11/25/08	6	Laundry		Main Laundry	hot/cold connection to chemical detergent system & hose bib		CIM2776	1/2		PVB	1/PL201
86	11/25/08	6	Laundry		Main Laundry	Main fire		CIM2778	6		DCV-UL	8/PL201

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87	11/25/08	6	Laundry		Main Laundry	Fire hose cabinet		CIM2779		disconnect from DW water line and connect to fire line.		5/PL101
88	11/25/08	7	Boiler Plant		Basement	Incoming water service		CIM2729, CIM2730	4	2 lines, 1 from main, 1 from tower	RP	3/PL102, 6/PL102
89	11/25/08	7	Boiler Plant		Basement	Main fire line entrance		CIM2731, CIM2732	4		DCV-UL	3/PL102, 6/PL102
90	11/25/08	7	Boiler Plant		Basement	Air Compressor		CIM2733	3/8		RP	7/PL102
91	11/25/08	7	Boiler Plant		Basement	Emergency Water Supply		CIM2735		Hook-up from fire hydrant on loss of water	RP	6/PL101, 7/PL101
92	11/25/08	7	Boiler Plant		Basement	Water Softener		CIM2736, CIM2737	2		DCV	2/PL102
93	11/25/08	7	Boiler Plant		Sub Basement	Softened water connection to condensate drain		CIM2738	2		RP	7/PL201
94	11/25/08	7	Boiler Plant		1st Floor	Domestic or soft water at high pressure steam Boiler #1		CIM2740	2		RP	1/PL102
95	11/25/08	7	Boiler Plant		1st Floor	Hose bibb at Boiler #2	HVB	CIM2743	3/4		HVB	6/PL201
96	11/25/08	7	Boiler Plant		1st Floor	Domestic or soft water at high pressure steam Boiler #2		CIM2744	2		RP	1/PL102
97	11/25/08	7	Boiler Plant		1st Floor	Domestic or soft water at high pressure steam Boiler #3		CIM2748	1-1/4		RP	1/PL102
98	11/25/08	7	Boiler Plant		1st Floor	Hose connection		CIM2748	3/4		HVB	6/PL201
99	11/25/08	7	Boiler Plant		1st Floor	Ice Dispenser near Boiler #3		CIM2749	3/8		DCV	2/PL201
100	11/25/08	7	Boiler Plant		1st Floor	Sink		CIM2751	3/8		FVB for hose spray connection under sink.	5/PL201
101	11/25/08	7	Boiler Plant		1st Floor	Boiler feed pump, 2 connections		CIM2754	3/8		(2) AVB	3/PL201
102	11/25/08	7	Boiler Plant		Upper Level	Cross connection soft water and pump line feeding boiler feed tank		CIM2755	2		RP	4/PL102, 5/PL102
103	11/25/08	8	Plumbing Shop	105	Locker Room	Water service to building		CIM2756	2	hidden beneath manhole	RP	7/PL201
104	11/25/08	8	Plumbing Shop	109	Shop	Double sink with threaded connections		CIM2757		Provide check valves on hot and cold water to avoid mixing.	PVB on faucet	1/PL201
105	11/25/08	8	Plumbing Shop	109	Shop	Main fire line entrance		CIM2761	4		DCV-UL	8/PL201
106	11/25/08	10	Electric Shop		Garage Stroage	Main fire line entrance		CIM2763			DCV-UL	9/PL201
107	11/25/08	9	Storage		Office Area	Main fire line entrance and hose bib		CIM2764			DCV-UL & HVB	9/PL201
108	11/25/08	11	Offices		United Way Basement	Double Sink		CIM2780			FVB	9/PL201
109	11/25/08	11	Offices		United Way Basement	Make-up water to boiler		CIM2781, CIM2782	1/2		RP	7/PL201
110	11/25/08	11	Offices		United Way Basement	Main water into building		CIM2783	2		RP	7/PL201
111	11/25/08	11	Offices		Life steps basement	Make-up water to boiler		CIM2784	1/2		RP	7/PL201
112	11/25/08	11	Offices		Life steps basement	Laundry Tub		CIM2785			HVB	6/PL201
113	11/25/08	11	Offices		Life steps basement	Hose bib		CIM2786			HVB	6/PL201
114	12/2/08	16	Vacant/Storage	SP103-16	Shop Carpenter	Domestic Entrance		CIMG0031	1-1/2	In Cabinet	RP	7/PL201
115	12/2/08	17	Vacant/Storage	SP103-17		Domestic Entrance		CIMG0033	1-1/2	In Box on Floor	RP	7/PL201
116	12/2/08	18	AC Plant	SP101-1B	Shop A/C	Utility sink faucet with hose connection		CIMG0013	1/2		HVB	6/PL201
117	12/2/08	18	AC Plant	SP101-1B	Shop A/C	Ice Machine next to pic 13		CIMG0015	3/8		DCV	2/PL201
118	12/2/08	18	AC Plant	SP101-1B	Shop A/C	Hose Bibb		CIMG0016	3/4		PVB	1/PL201
119	12/2/08	18	AC Plant	SP101-1B	Shop A/C	Serving Cooling Tower Outside	DCV	CIMG0017, CIMG0018	1-1/2		RP	7/PL201
120	12/2/08	18	AC Plant	SP101-1B	Bathroom	Potable Water Entrance		CIMG0019	3		RP	7/PL201
121	12/2/08	18	AC Plant		Outside	Hose Bibb by Cooling Tower		CIMG0021	3/4		HVB	6/PL201
122	11/25/08	46	Offices	114	Men's Room	Main water into building/ threaded faucet		CIM2799	2		RP and HVB	6/PL201
123	11/25/08	46	Offices	114	Men's Room	Utility Sink		CIM2800			HVB	6/PL201
124	11/25/08	46	Offices		Paint Shop	Main fire entrance		CIM2801	6		DCV-UL	7/PL103, 8/PL103
125	11/25/08	46	Offices		Paint Shop Utility	Make-up water to condensate return		CIM2803	1		RP	7/PL201
126	11/25/08	46	Offices		Carpenter Shop	Hose connection		CIM2805	3/4		HVB	6/PL201

Number	Date Photo Taken (Photo Folder)	Building Number	Building Description	Room No.	Room Description	Existing Equipment Description	Type of Existing Backflow Protection Device to Be Removed	Photo (s)	Aproximate Line Size, Inches (Field Verify)	Notes	Required Backflow Prevention Device	Plan or Detail Reference
127	11/25/08	47	Warehouse		Main Storage	Main fire line in		CIM2790	6		DCV-UL	10/PL201
128	11/25/08	47	Warehouse	SP105FA-47	Toilet Male	Domestic water service entrance		CIM2792	1-1/4		RP	7/PL201
129	11/25/08	47	Warehouse		Grounds	Hose Bibb		CIM2793	3/4		HVB	6/PL201
130	11/25/08	47	Warehouse		Grounds	ice and water dispenser		CIM2794	1/2		DCV	2/PL201
131	11/25/08	47	Warehouse		Grounds Garage	hose connection and laundry connection		CIM2795	3/4		HVB on each	6/PL201
132	11/25/08	47	Warehouse		Outside	Hose connection		CIM2796	3/4		HVB	6/PL201
133	11/25/08	47	Warehouse		Generator Room	Hose connection		CIM2797	3/4		PVB	1/PL201
134	11/25/08	47	Warehouse		Generator Room	Fill connection to generator radiator		CIM2798	3/4		HVB	6/PL201
135	11/25/08	48	Fire station		Garage	Main water into building		CIM2787, CIM2788	2	threaded connection that comes off and on	RP, and HVB	6/PL201
136	12/2/08	68	Vacant	SP103-68		Water service		CIMG0036	2		RP	7/PL201
137	12/2/08	69	Day Care		Outside	Hose Bibb		CIMG0027			HVB	6/PL201
138	12/2/08	69	Day Care		Mechanical Room	Domestic Entrance		CIMG0028, CIMG0029	1-1/2		RP	7/PL201
139	12/11/08	99	Switchgear / Generator		Generator Room	Hose Bibb		CIMG0001	3/4		HVB	6/PL201
140	12/2/08	125	Smoking Shelter	Outside		Hose Bibb		CIMG0048			HVB	6/PL201
141	12/2/08	131	Data Center	SP101-131	Telecom Equipment	Liebert - Emerson AC Unit		CIMG0007, CIMG0008	1/4	Pipe under floor to Unit #2	DCV	2/PL201
142	12/2/08	131	Data Center	SPB01-131	Basement	Line to Liebert - Emerson AC Unit #1		CIMG0011	1/2		DCV	2/PL201
143	12/4/08	131			Mechanical Room	Hose Bibb		CIMG3106	1/2		HVB	6/PL201
144	12/4/08	131			Mechanical Room	Hose Bibb		CIMG3107	1/2		HVB	6/PL201
145	12/11/08	133	Patient Greenhouse			North end Water entry		CIMG0006	3/4	Rotate filter and re-install in correct direction of flow.		NONE
146	12/4/08	134	Employee Smoking			Laundry Tub		CIMG3030			HVB	6/PL201

BACKFLOW PREVENTER LEGEND

BACKFLOW PREVENTER TYPE	TAG
AIR GAP	AG
ATMOSPHERIC VACUUM BREAKER	AVB
BEVERAGE DISPENSER BACKFLOW PREVENTER	BDBP
CHEMICAL DISPENSER BACKFLOW DEVICE	CBD
DECK MOUNTED AND INTEGRAL VACUUM BREAKERS	IVB
DOUBLE CHECK VALVE-UL LISTED FOR FIRE SERVICE	DCV-UL
DOUBLE CHECK VALVE (OVER 1") OR DUAL CHECK VALVE (1/4"-1")	DCV
FAUCET VACUUM BREAKER	FVB
HOSE CONNECTION VACUUM BREAKER	HVB
INTERMEDIATE ATMOSPHERIC VENT	IAV
PRESSURE VACUUM BREAKER	PVB
REDUCED PRESSURE PRINCIPLE	RP
SPILL PROOF VACUUM BREAKER	SVB

PLUMBING SYMBOLS

- SANITARY SEWER – ABOVE GROUND
- SANITARY SEWER – BELOW GRADE
- ST — STORM SEWER – ABOVE GROUND
- ST — STORM SEWER – BELOW GRADE
- VENT LINE
- CA — CLEAN COMPRESSED AIR LINE
- CHECK VALVE
- STRAINER
- BALL VALVE
- EXISTING VALVE
- OS & Y VALVE
- BWV — BACKWATER VALVE
- BUTTERFLY VALVE
- CO — FLOOR CLEANOUT
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- "P"-TRAP
- FD-1 — FLOOR DRAIN MARK
- RD-1 — ROOF DRAIN MARK
- AD — AREA DRAIN MARK
- SWD — SAFEWASTE DRAIN MARK
- SR 1 OR WR 1 — PLUMBING RISER NUMBERS
- 1 — PLUMBING NUMBERED NOTE – NEW WORK
- POINT OF CONNECTION TO EXISTING
- POINT OF DISCONNECTION

Revisions: | Date

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CORRECT SCALE 0 ½" 1"

AE PROJ. NO. A9-130 / 09-044

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER DAVID L. VOLK PE-036866-E
09/02/09

Drawing Title: PLUMBING LEGEND, SCHEDULE AND SYMBOLS

Approved: Project Director

Project Title: Backflow Prevention

Location: VA Medical Center - Butler, PA 16001

Date: SEPTEMBER 2, 2009 | Checked: DWB | Drawn: DLV

Project Number: VA529-09-116

Building Numbers: ALL

Drawing Number: P001
Dwg. 2 of 7

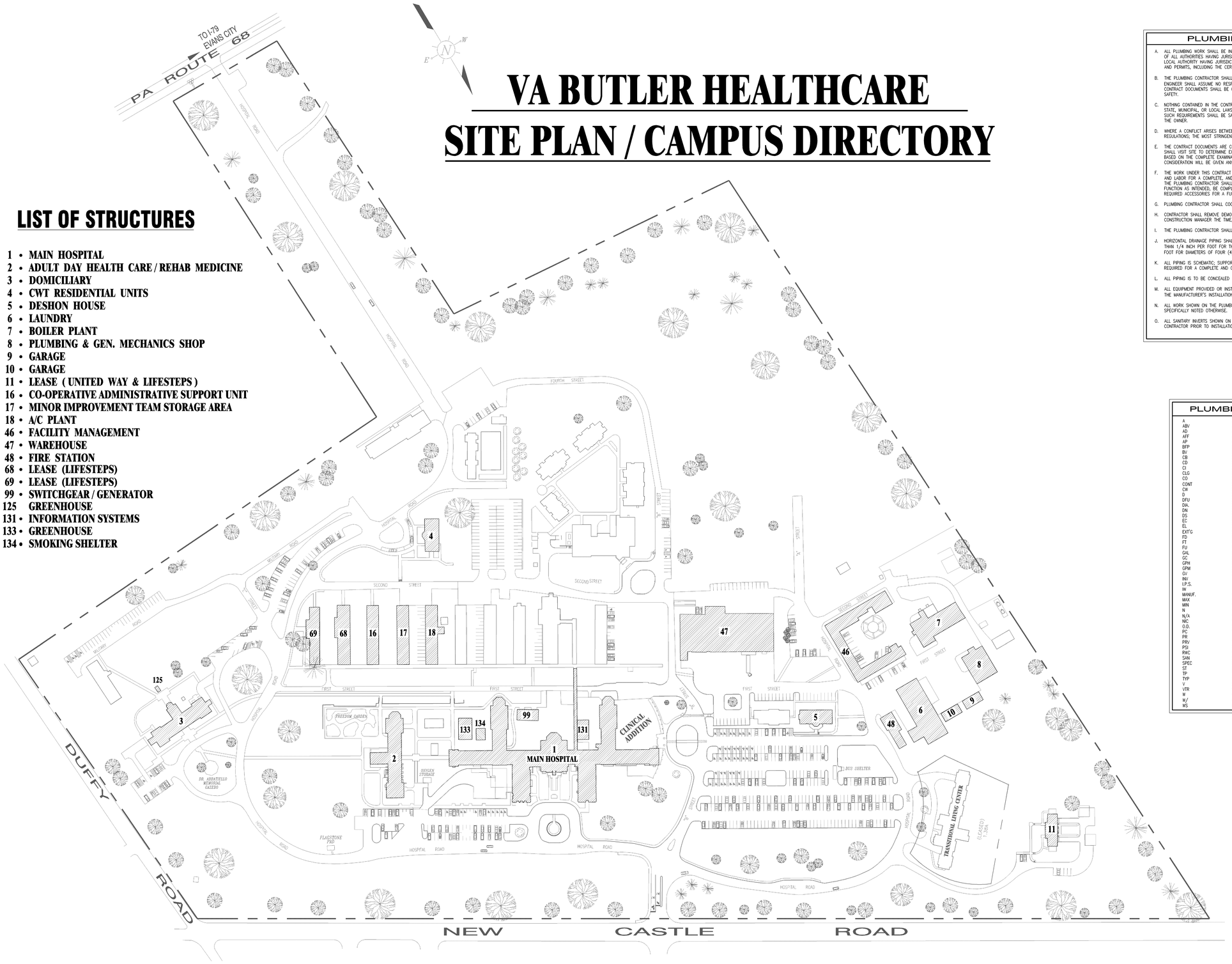
Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

VA BUTLER HEALTHCARE
SITE PLAN / CAMPUS DIRECTORY

LIST OF STRUCTURES

1 • MAIN HOSPITAL
2 • ADULT DAY HEALTH CARE / REHAB MEDICINE
3 • DOMICILIARY
4 • CWT RESIDENTIAL UNITS
5 • DESHON HOUSE
6 • LAUNDRY
7 • BOILER PLANT
8 • PLUMBING & GEN. MECHANICS SHOP
9 • GARAGE
10 • GARAGE
11 • LEASE (UNITED WAY & LIFESTEPS)
16 • CO-OPERATIVE ADMINISTRATIVE SUPPORT UNIT
17 • MINOR IMPROVEMENT TEAM STORAGE AREA
18 • A/C PLANT
46 • FACILITY MANAGEMENT
47 • WAREHOUSE
48 • FIRE STATION
68 • LEASE (LIFESTEPS)
69 • LEASE (LIFESTEPS)
99 • SWITCHGEAR / GENERATOR
125 GREENHOUSE
131 • INFORMATION SYSTEMS
133 • GREENHOUSE
134 • SMOKING SHELTER



PLUMBING SYSTEMS NOTES

A. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE ORDINANCES, CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. ALL PLUMBING WORK SHALL BE INSPECTED AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY FEES AND PERMITS, INCLUDING THE CERTIFICATE OF PLUMBING INSPECTION.

B. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY. ARCHITECT AND/OR ENGINEER SHALL ASSUME NO RESPONSIBILITY FOR WORKMAN'S, OR PEDESTRIAN'S SAFETY. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO INSTRUCT PROCEDURES OR COMPONENTS FOR PROJECT SAFETY.

C. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO CONFLICT WITH ANY NATIONAL, STATE, MUNICIPAL, OR LOCAL LAWS OR REGULATIONS GOVERNING THE WORK INDICATED OR SPECIFIED. ALL SUCH REQUIREMENTS SHALL BE SATISFIED BY THE PLUMBING CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

D. WHERE A CONFLICT ARISES BETWEEN PLANS, SPECIFICATIONS, DETAILS, SCHEDULES, APPLICABLE CODES OR REGULATIONS; THE MOST STRINGENT SHALL APPLY.

E. THE CONTRACT DOCUMENTS ARE COMPRISED OF DRAWINGS AND SPECIFICATIONS. EACH PLUMBING BIDDER SHALL VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID PROPOSAL. BIDS SHALL BE BASED ON THE COMPLETE EXAMINATION OF THE DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS. NO CONSIDERATION WILL BE GIVEN ANY CONTRACTOR WHO FAILS TO DO SO.

F. THE WORK UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING OF ALL NECESSARY MATERIALS, TOOLS, AND LABOR FOR A COMPLETE, AND WORKING INSTALLATION AS DEFINED BY THE PLANS AND SPECIFICATIONS. THE PLUMBING CONTRACTOR SHALL WARRANT THE WORK INDICATED AND SPECIFIED. THE WORK SHALL FUNCTION AS INTENDED, BE COMPLETE IN ALL DETAILS, AND SHALL INCLUDE ALL INDICATED, SPECIFIED, OR REQUIRED ACCESSORIES FOR A FUNCTIONING SYSTEM.

G. PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.

H. CONTRACTOR SHALL REMOVE DEMOLITION DEBRIS COMPLETELY. CONTRACTOR SHALL SCHEDULE WITH THE CONSTRUCTION MANAGER THE TIME, LOCATION, ELEVATOR AND HAULING ROUTE.

I. THE PLUMBING CONTRACTOR SHALL CLEAN UP ALL DEBRIS AT THE END OF EACH WORK DAY.

J. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES NOT LESS THAN 1/4 INCH PER FOOT FOR THREE (3) INCH DIAMETER AND LESS, AND NOT LESS THAN 1/8 INCH PER FOOT FOR DIAMETERS OF FOUR (4) INCHES OR MORE.

K. ALL PIPING IS SCHEMATIC; SUPPORTS, UNIONS, VIBRATION ISOLATION, VALVES, INSULATION, ETC. SHALL BE AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

L. ALL PIPING IS TO BE CONCEALED IN WALLS OR ABOVE CEILING UNLESS NOTED OTHERWISE.

M. ALL EQUIPMENT PROVIDED OR INSTALLED BY THIS CONTRACTOR SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

N. ALL WORK SHOWN ON THE PLUMBING DRAWINGS SHALL BE BY THE PLUMBING CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

O. ALL SANITARY INVERTS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION.

PLUMBING ABBREVIATIONS

A	COMPRESSED AIR
ABV	ABOVE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BFP	BACKFLOW PREVENTER
BV	BALL VALVE
CB	CATCH BASIN
CD	CONDENSATE DRAIN
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONT	CONTINUE(D)
CW	COLD WATER
D	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DIA.	DIAMETER
DN	DOWN
DS	DOWNSPOUT
EC	ELECTRIC CONTRACTOR
EL	ELEVATION
EXT'G	EXISTING
FD	FLOOR DRAIN
FT	FOOT OR FEET
FU	FIXTURE UNIT
GAL	GALLON
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
INV	INVERT
I.P.S.	INTERNAL PIPE SIZE
IW	INDIRECT WASTE
MANUF.	MANUFACTURER
MAX	MAXIMUM
MIN	MINIMUM
N	NEW
N/A	NOT APPLICABLE
NIC	NOT INCLUDED
O.D.	OUTSIDE DIAMETER
PC	PLUMBING CONTRACTOR
PR	PRESENT TO REMAIN
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RWC	RAINWATER CONDUCTOR
SAN	SANITARY
SPEC	SPECIFICATION
ST	STORM
TP	TRAP PRIMER
TYP	TYPICAL
V	SANITARY VENT
VTR	VENT THRU ROOF
W	WASTE
W/	WITH
WS	WASTE STACK

Revisions:	Date

CONSULTANTS:

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CORRECT SCALE
AE PROJ. NO. A9-130 / 09-044

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
DAVID L. VOLK
ENGINEER
PE-034846-E
08/03/09

Drawing Title: PLUMBING ABBREVIATIONS, NOTES AND SITE PLAN

Approved: Project Director

Project Title: Backflow Prevention

Location: VA Medical Center - Butler, PA 16001

Date: SEPTEMBER 2, 2009 | Checked: DWB | Drawn: DLV

Project Number: VA529-09-116

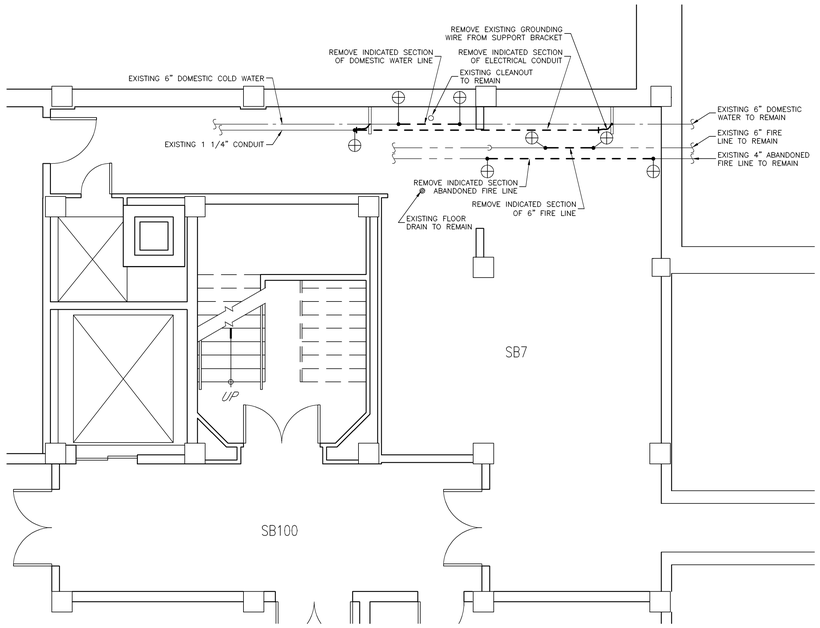
Building Numbers: ALL

Drawing Number: PL100
Dwg. 3 of 7

Office of Construction and Facilities Management

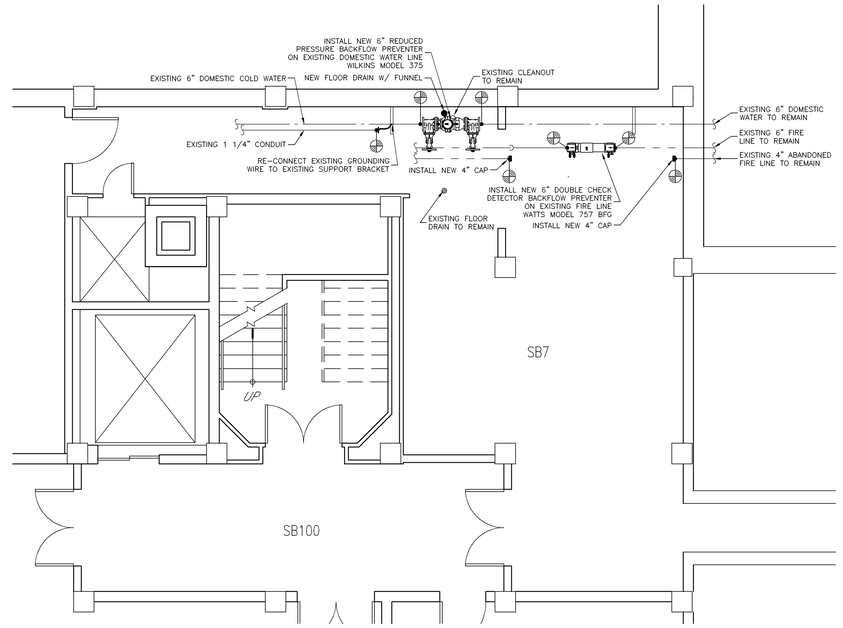
Department of Veterans Affairs

VA FORM 08-6231



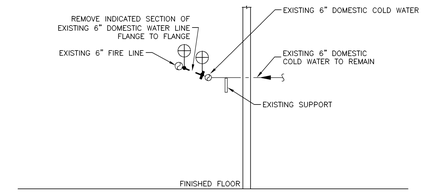
1 PL101 PARTIAL BUILDING 1 - SUB-BASEMENT PLUMBING SHOP - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

KEY PLAN: NTS

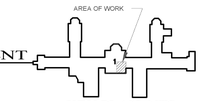


2 PL101 PARTIAL BUILDING 1 - SUB-BASEMENT PLUMBING SHOP - NEW WORK PLAN
SCALE: 1/4" = 1'-0"

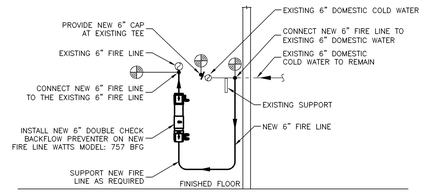
KEY PLAN: NTS



3 PL101 PARTIAL BUILDING 1 - SUB-BASEMENT MECH. ROOM - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

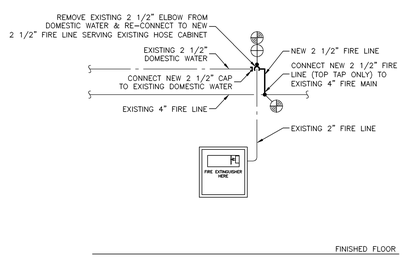


KEY PLAN: NTS

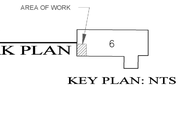


4 PL101 PARTIAL BUILDING 1 - SUB-BASEMENT MECH. ROOM - NEW WORK PLAN
SCALE: 1/4" = 1'-0"

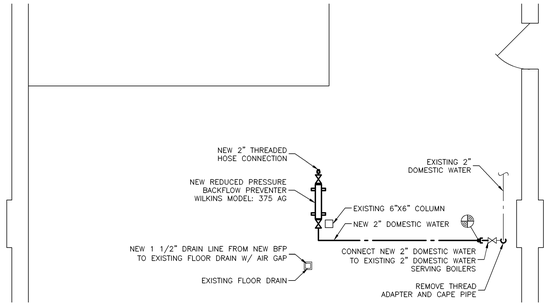
KEY PLAN: NTS



5 PL101 PARTIAL BUILDING 6 - MAIN LAUNDRY FIRE HOSE CABINET - DEMO /NEW WORK PLAN
SCALE: 1/4" = 1'-0"

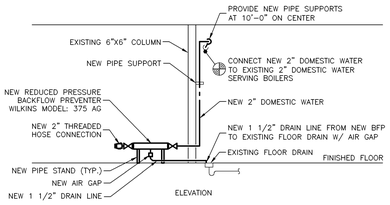


KEY PLAN: NTS



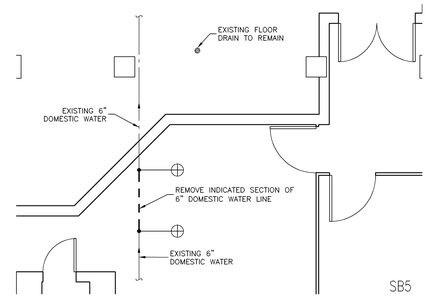
6 PL101 PARTIAL BUILDING 7 - BASEMENT BOILER PLANT - NEW WORK PLAN
SCALE: 1/4" = 1'-0"

KEY PLAN: NTS

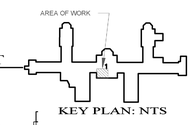


7 PL101 PARTIAL BUILDING 7 - BASEMENT BOILER PLANT - NEW WORK ELEVATION
SCALE: 1/4" = 1'-0"

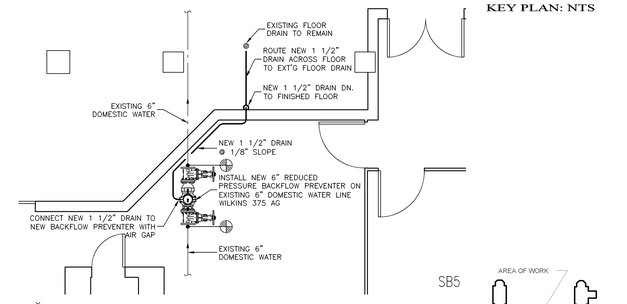
KEY PLAN: NTS



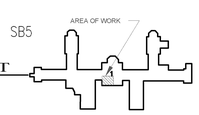
8 PL101 PARTIAL BUILDING 1 - SUB-BASEMENT PLUMBING SHOP - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN: NTS



9 PL101 PARTIAL BUILDING 1 - SUB-BASEMENT PLUMBING SHOP - NEW WORK PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN: NTS

Revisions:	Date

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CORRECT SCALE 0 1/2" 1"

AE PROJ. NO. A9-130 / 09-044

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL DAVID W. VOLK ENGINEER PE-034866-E
09/02/09

Drawing Title: PARTIAL ENLARGED PLUMBING PLANS FOR BUILDINGS 1, 6 AND 7

Approved: Project Director

Project Title: Backflow Prevention

Location: VA Medical Center - Butler, PA 16001

Date: SEPTEMBER 2, 2009 | Checked: DWB | Drawn: DLV

Project Number: VA529-09-116

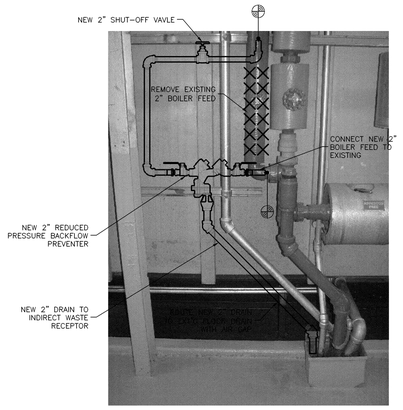
Building Numbers: 1, 6, 7

Drawing Number: PL101 Dwg. 4 of 7

Office of Construction and Facilities Management

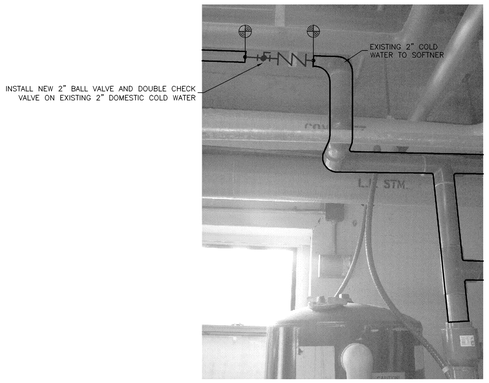
Department of Veterans Affairs

VA FORM 08-6231



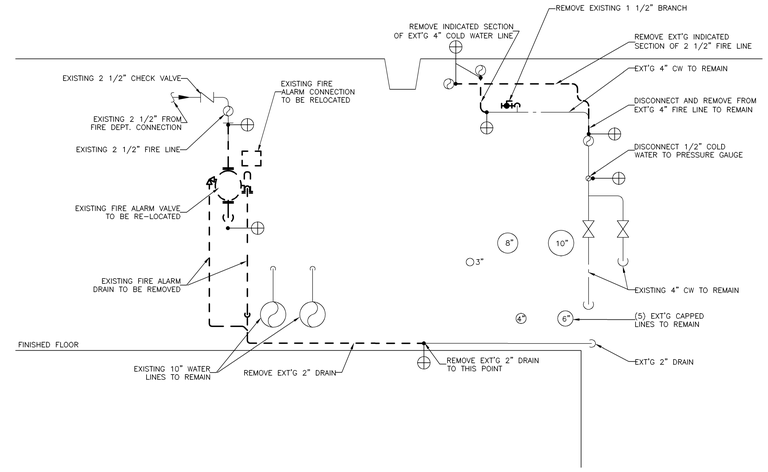
1 PL102 PARTIAL ENLARGED 1ST. FLOOR - BUILDING 7 BOILER PLANT - PLUMBING DEMOLITION PLAN
SCALE: N. T. S.

AREA OF WORK — KEY PLAN: NTS



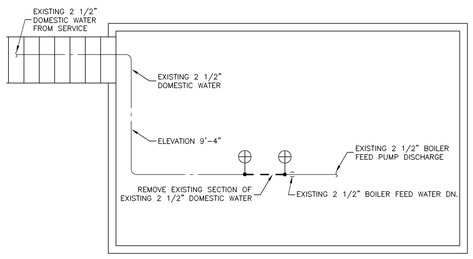
2 PL102 PARTIAL ENLARGED BASEMENT - BUILDING 7 BOILER PLANT - PLUMBING DEMOLITION PLAN
SCALE: N. T. S.

AREA OF WORK — KEY PLAN: NTS



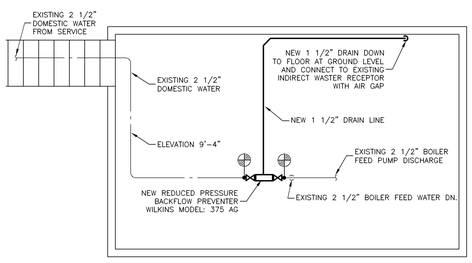
3 PL102 PARTIAL ENLARGED BASEMENT - BUILDING 7 BOILER PLANT - WATER SERVICE DEMO PLAN
SCALE: 1/4" = 1'-0"

AREA OF WORK — KEY PLAN: NTS



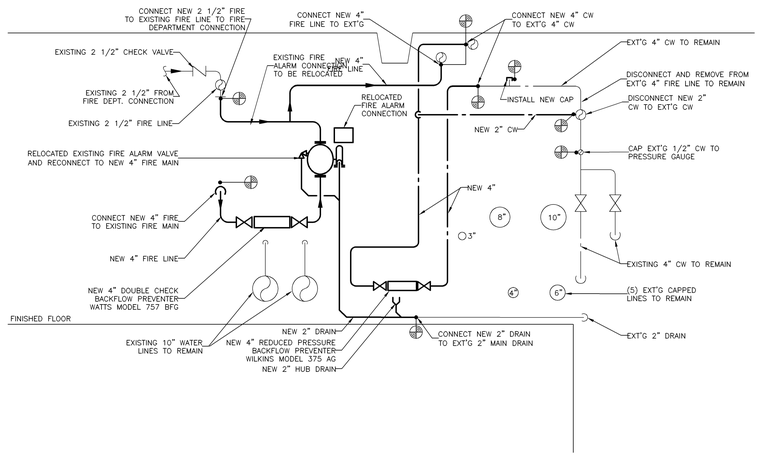
4 PL102 PARTIAL BUILDING 7 - BOILER PLANT UPPER LEVEL PLATFORM - DEMO PLAN
SCALE: 1/4" = 1'-0"

AREA OF WORK — KEY PLAN: NTS



5 PL102 PARTIAL BUILDING 7 - BOILER PLANT UPPER LEVEL PLATFORM - NEW WORK PLAN
SCALE: 1/4" = 1'-0"

AREA OF WORK — KEY PLAN: NTS



6 PL102 PARTIAL ENLARGED BASEMENT - BUILDING 7 BOILER PLANT - WATER SERVICE NEW WORK PLAN
SCALE: 1/4" = 1'-0"

AREA OF WORK — KEY PLAN: NTS

Revisions:	Date

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ARCHITECT/ENGINEERS:

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CORRECT SCALE 0 ½" 1"
AE PROJ. NO. A9-130 / 09-044

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER DAVID W. WOLF PE-036866-E
08/02/09

Drawing Title: PARTIAL ENLARGED PLUMBING PLANS FOR BUILDING 7

Approved Project Director

Project Title: Backflow Prevention

Location: VA Medical Center - Butler, PA 16001

Date: SEPTEMBER 2, 2009 | Checked: DWB | Drawn: DLV

Project Number: VA529-09-116

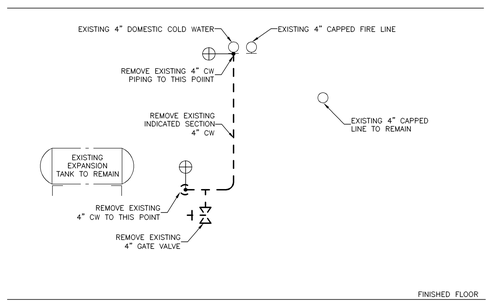
Building Numbers: 7

Drawing Number: PL102 Dwg. 5 of 7

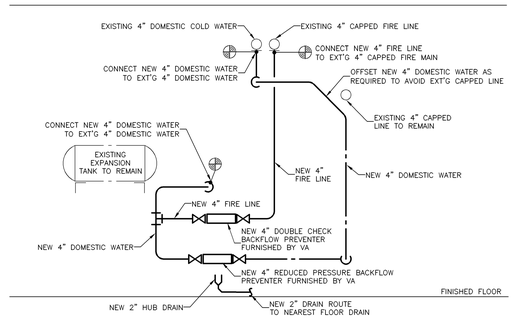
Office of Construction and Facilities Management

Department of Veterans Affairs

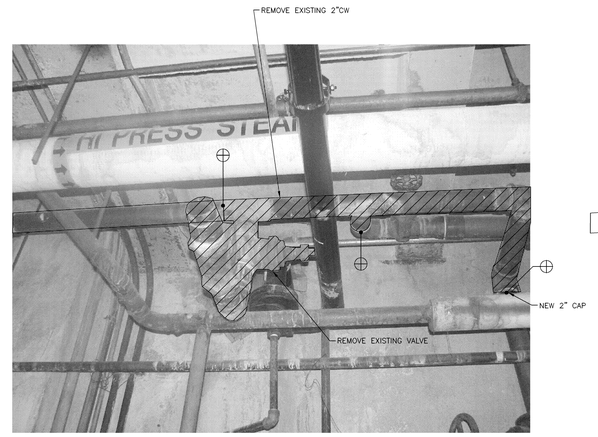
VA FORM 08-6231



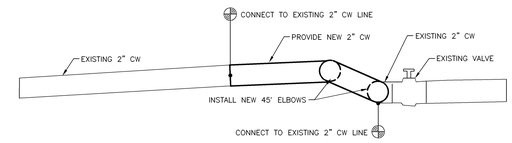
1 PL103 PARTIAL BUILDING 2 - OFFICE / REHAB MECHANICAL ROOM - DEMOLITION PLAN
SCALE: 1/2" = 1'-0"
KEY PLAN: NTS



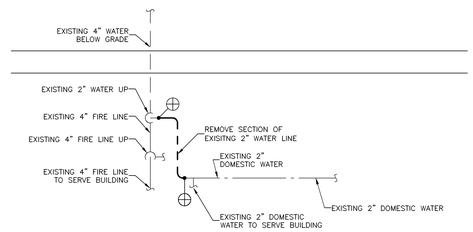
2 PL103 PARTIAL BUILDING 2 - OFFICE / REHAB MECHANICAL ROOM - NEW WORK PLAN
SCALE: 1/2" = 1'-0"
KEY PLAN: NTS



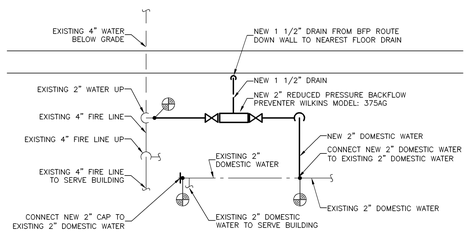
3 PL103 PARTIAL ENLARGED - BUILDING 6 LAUNDRY MECHANICAL ROOM - PLUMBING DEMOLITION
SCALE: NO SCALE
KEY PLAN: NTS



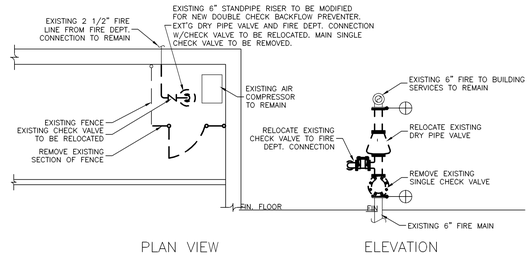
4 PL103 PARTIAL ENLARGED - BUILDING 6 LAUNDRY MECHANICAL ROOM - PLUMBING NEW WORK
SCALE: NO SCALE
KEY PLAN: NTS



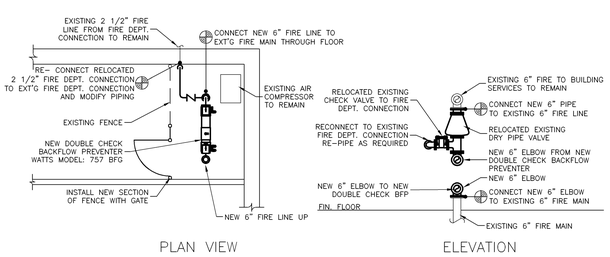
5 PL103 PARTIAL BUILDING 3 - HOUSING MECHANICAL ROOM - DEMOLITION PLAN
SCALE: 1/2" = 1'-0"
KEY PLAN: NTS



6 PL103 PARTIAL BUILDING 3 - HOUSING MECHANICAL ROOM - NEW WORK PLAN
SCALE: 1/2" = 1'-0"
KEY PLAN: NTS



7 PL103 PARTIAL BUILDING 46 - OFFICES - PAINT SHOP DEMOLITION PLAN & ELEVATION
SCALE: 1/4" = 1'-0"
KEY PLAN: NTS



8 PL103 PARTIAL BUILDING 46 - OFFICES - PAINT SHOP NEW WORK PLAN & ELEVATION
SCALE: 1/4" = 1'-0"
KEY PLAN: NTS

Revisions:	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

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CORRECT SCALE 0 1/2 1"
AE PROJ. NO. A9-130 / 09-044

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL DAVID L. VOLK ENGINEER PE-034864-E 09/02/09

Drawing Title: PARTIAL ENLARGED PLUMBING PLANS FOR BUILDINGS 2, 3, 6 and 46

Approved: Project Director

Project Title: Backflow Prevention

Location: VA Medical Center - Butler, PA 16001

Date: SEPTEMBER 2, 2009 | Checked: DWB | Drawn: DLV

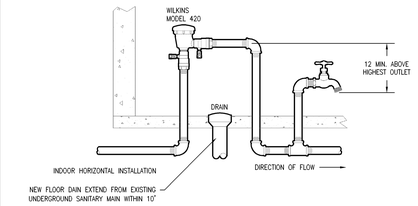
Project Number: VA529-09-116

Building Numbers: 2, 3, 6, 46

Drawing Number: PL103
Dwg. 6 of 7

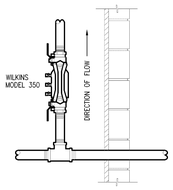
Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



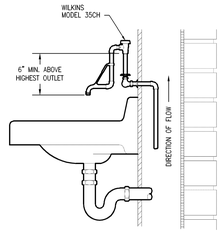
DETAIL NO. 1

FILE NAME		SCALE:	
PVB	PRESSURE VAC. BRK. DETAILS	N. T. S.	1



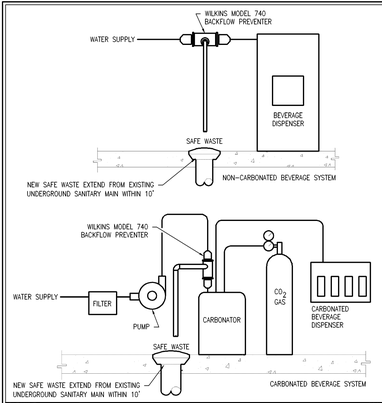
DETAIL NO. 2

FILE NAME		SCALE:	
DVC	DUAL CHECK VALVE DETAILS	N. T. S.	2



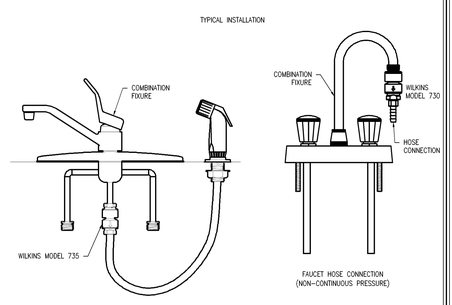
DETAIL NO. 3

FILE NAME		SCALE:	
AVB	ATMOSPHERIC VAC. BRK. DETAILS	N. T. S.	3



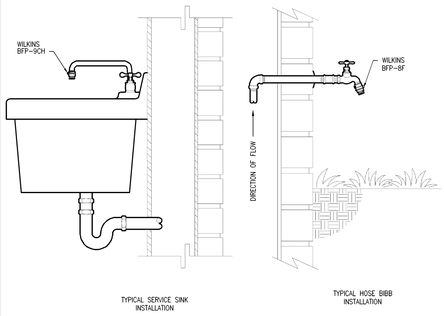
DETAIL NO. 4

FILE NAME		SCALE:	
BDBP	BEV. DISP. BACKFL. PREV. DETAILS	N. T. S.	4



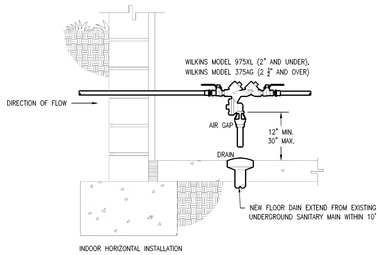
DETAIL NO. 5

FILE NAME		SCALE:	
FVB	FAUCET VAC. BRK. DETAILS	N. T. S.	5



DETAIL NO. 6

FILE NAME		SCALE:	
HVB	HOSE CONN. VAC. BRK. DETAILS	N. T. S.	6

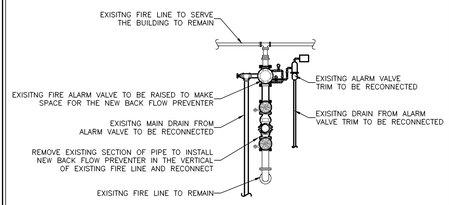


DETAIL NO. 7

FILE NAME		SCALE:	
BP	REDUCED PRESS. PRINCIPLE DTL'S	N. T. S.	7

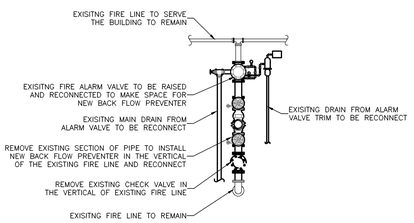
DETAIL NO. 8

FILE NAME		SCALE:	
SVB	FIRE LINE BFP - BLDGS. 99 & 121	N. T. S.	8



DETAIL NO. 9

FILE NAME		SCALE:	
SVB	FIRE LINE BFP - BLDGS. 122 - 124	N. T. S.	9



DETAIL NO. 10

FILE NAME		SCALE:	
SVB	FIRE LINE BFP - BUILDING 47	N. T. S.	10

Revisions:	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

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CORRECT SCALE 0 1" 2" 3"

AE PROJ. NO. A9-130 / 09-044

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL DAVID L. VOLK Engineer PE-036868-E PENNSYLVANIA 09/02/09

Drawing Title: BACKFLOW PREVENTION DETAILS

Approved: Project Director

Project Title: Backflow Prevention

Location: VA Medical Center - Butler, PA 16001

Date: SEPTEMBER 2, 2009 | Checked: DWB | Drawn: DLV

Project Number: VA529-09-116

Building Numbers: ALL

Drawing Number: PL201

Dwg. 7 of 7

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231